Meteorological Service of Sakaeronavigatsia LTD

Publication Supervisor: Gocha Mezvrishvili

Author: Badri Jijelava

# CLIMATOLOGY OF GEORGIAN AERODROMES (2010-2019)





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**Meteorological Service of SAKAERONAVIGATSIA Ltd**

**Author**

Badri Jijelava -

Doctor of Philosophy in Physics,

Head of Meteorological Service.

# CLIMATOLOGY
# of Georgian Aerodromes
## (2010-2019)


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Gocha Mezvrishvili - General Director of “Sakaeronavigatsia” Ltd.



**Designer**

Lasha Matiashvili

**Proof readers**

Vladimir Jinchvelashvili
Kakha Siradze
Sergo Beridze

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## CONTENTS

# ზოგადი კლიმატოლოგია და კიოპენის და ტრევარტის კლიმატოლოგიური კლასიფიკაციის მეთოდის გამოყენებით, საქართველოს აეროდრომების შესაბამის კლიმატურ ზონებზე მიკუთვნება.

კლიმატური ზონების განსაზღვრის ბევრი მეთოდი არსებობს. კლიმატური ზონების ანალიზით დაკავებული მეცნიერ-მეტეოროლოგები გვთავაზობენ კლიმატური ზონების იდენტიფიკაციის და განსაზღვრის ინდივიდუალურ  მეთოდებს. ყოველი მათგანი საბოლოოდ გვიქმნის წარმოდგენას ამა თუ იმ რეგიონში გაბატონებული მეტეოროლოგიური პირობების შესახებ, როგორიცაა ტენიანობა, ტემპერატურა, ქარები, ამინდის მოვლენები, ნალექები და ა.შ.

საინტერესოა კლიმატოლოგიის სფეროში მომუშავე ბორის ალისოვის კლიმატური ზონების და რეგიონების განსაზღვრის მეთოდიკა. იგი გვთავაზობს კლიმატური ზონების და რეგიონების იდენტიფიცირებას ატმოსფეროს ზოგადი ცირკულაციის ასპექტის გათვალისწინებით. ატმოსფეროს საერთო ცირკულაციაზე დაყრდნობით იგი გამოყოფს შვიდ ძირითად კლიმატური ზონას.

1. ეკვატორული
2. ორი ტროპიკული
3. ორი ზომიერი
4. ორი პოლარული

ეკვატორული ზონის გარდა ორი ტროპიკული, ორი ზომიერი და ორი პოლარული ზონის გამოყოფა, გულისხობს დედამიწის სამხრეთ და ჩრდილოეთ ნახევარსფეროებში ცალ-ცალკე ტროპიკული, ზომიერი და პოლარული ზონების არსებობას. მეცნიერი კლიმატურ ზონებს იმის და მიხედვით გამოყოფს, მთელი წლის განმავლობაში რომელი გაბატონებული ჰაერის მასების მიერ ხდება კლიმატის ჩამოყალიბება ამა თუ იმ რეგიონში, ჰაერის მასებში ის გულისხმობს ეკვატორულ, ტროპიკულ, ზომიერ, არქტიკულ (ჩრდილოეთ ნახევარსფეროში) და ანტარქტიკულ (სამხრეთ ნახევარსფეროში) ჰაერის მასებს.

ძირითადი კლიმატური ზონების გარდა, ასევე არსებობს ექვსი გარდამავალი ზონა, სამ-სამი დედამიწის თითოეულ ნახევარსფეროში. გარდამავალი კლიმატური ზონების არსებობა განპირობებულია გაბატონებული ჰაერის მასების ცვალებადობით სეზონების მიხედვით.

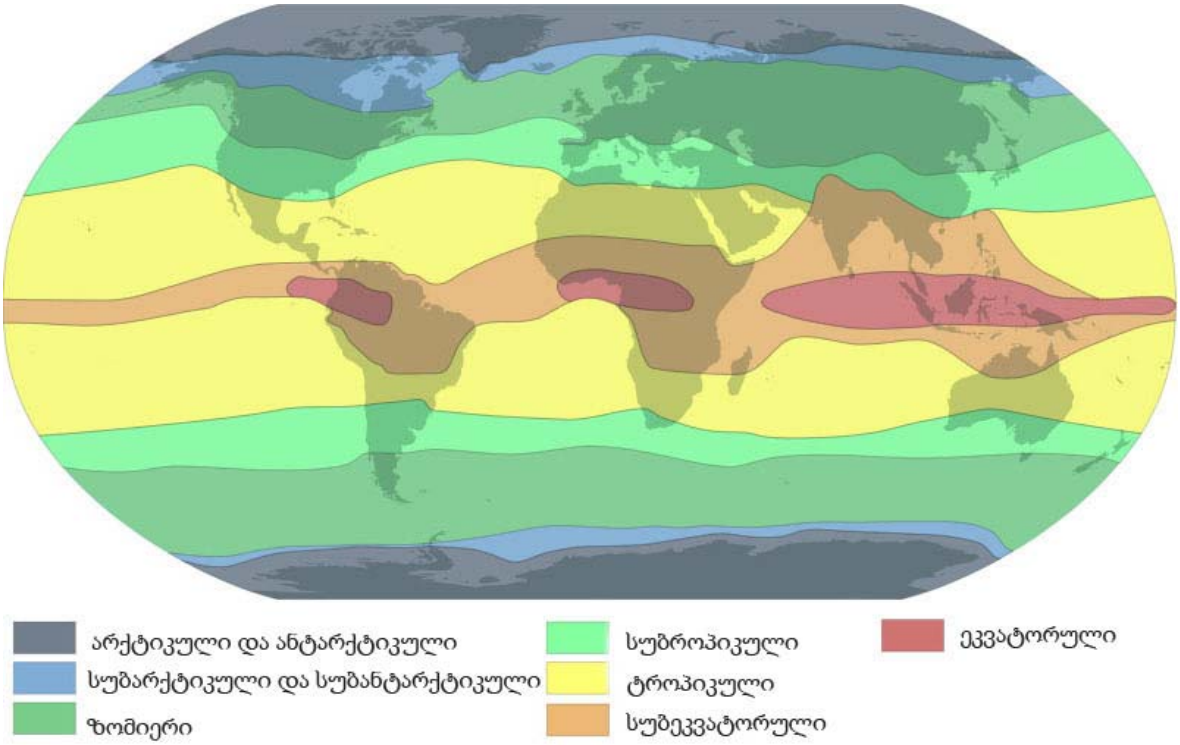
1. ორი სუბეკვატორული ზონა ან ტროპიკული მუსონების ზონები
2. ორი სუბტროპიკული ზონა
3. სუბარქტიკული და სუბანტარქტიკული ზონები

**სუბეკვატორული ზონისთვის** დამახასიათებელია, რომ ზაფხულში კლიმატის ჩამოყალიბებაზე უპირატესად მოქმედებს ეკვატორული ჰაერის მასები, ხოლო ზამთარში ტროპიკული ჰაერის მასები.

**სუბტროპიკული ზონისთვის** დამახასიათებელია,  რომ ზაფხულში კლიმატის ჩამოყალიბებაზე უპირატესად მოქმედებს ტროპიკული ჰაერის მასები, ხოლო ზამთარში ზომიერი ჰაერის მასები.

**სუბარქტიკული და სუბანტარქტიკული ზონებისთვის** დამახასიათებელია  რომ ზაფხულში კლიმატის ჩამოყალიბებაზე უპირატესად მოქმედებს ტროპიკული ჰაერის მასები, ხოლო ზამთარში არქტიკული ან ანტარქტიკული ჰაერის მასები.

*სურათი #1, ბორის ალისოვის კლიმატოლოგიური კლასიფიკაცია;*[1]




ზონების საზღვრები განისაზღვრება კლიმატოლოგიური ფრონტების საშუალო განლაგების მიხედვით. მაგ. **ტროპიკული ზონა** მოთავსებულია ზაფხულის შიდატროპიკული კონვერგენციის ზონებსა და ზამთრის პოლარული ფრონტების განლაგებებს შორის. სწორედ აქედან გამომდინარეა, რომ ამ ზონაში ძირითადად გაბატონებულია ტროპიკული ჰაერის მასები. სუბტროპიკული ზონა მოთავსებულია ზამთრის და ზაფხულის პოლარული ფრონტების განლაგებებს შორის, ამიტომ ამ რეგიონში ზამთარში დაიკვირვება პოლარული ჰაერის მასების გავლენა, ხოლო ზაფხულში ტროპიკულის. ანალოგიურად განისაზღვრება სხვა ზონების საზღვრებიც.

ყოველი ზონისთვის განსაზღვრულია ოთხი ტიპის კლიმატი.

1. ხმელეთის
2. ოკეანის
3. დასავლეთ სანაპიროების კლიმატი
4. აღმოსავლეთ სანაპიროების კლიმატი

ხმელეთის და ოკეანის კლიმატის თავისებურებები გამოწვეულია ჰაერის მასებს ქვემოთ მდებარე ზედაპირების ფიზიკურ თვისებების სახესხვაობებით, ერთ შემთხვევაში წარმოიქმნება კონტინენტური ჰაერის მასები, ხოლო მეორე შემთხვევაში ზღვის. განსხვავებები დასავლეთ სანაპიროების კლიმატს და აღმოსავლეთ სანაპიროების კლიმატს შორის გამოწვეულია ატმოსფეროს საერთო ცირკულაციის სპეციფიკიდან და ოკეანის დინებების თავისებურებებიდან გამომდინარე.

ეკვატორული და ტროპიკული ჰაერის მასები ყალიბდება დედამიწის ყველაზე დიდი დადებითი რადიაციული ბალანსის პირობებში. აქედან გამომდინარე სხვა ჰაერის მასებთან შედარებით ეკვატორული და ტროპიკული ჰაერის მასებისთვის დამახასიათებელია უფრო მაღალი ტემპერატურები. ტროპიკებში მთელი

[1] სურათი ამოღებულია და შემდგომ დამუშავეულია ვებ-გვერდიდან, https://www.google.com/search?q=%D0%90%D0%BB%D0%B8%D1%81%D0%BE%D0%B2+%D0%BA%D0%BB%D0%B8%D0%BC%D0%B0%D1%82%D0%BE%D0%BB%D0%BE%D0%B3%D0%B8%D1%8F&source=lnms&tbm=isch&sa=X&ved=0ahUKEwjBgqa53_PbAhXQyKQKHVQBAWAQ_AUICigB&biw=1920&bih=974#imgrc=UdATT8AIyhNJhM:

წლის განმავლობაში დედამიწის რადიაციული ბალანსი ნაკლებად მერყეობს, რაც ტემპერატურის წლიური ამპლიტუდის ნაკლებად ცვალებადობის ერთ-ერთ მიზეზს წარმოადგენს. ტროპიკული ზონის უდიდეს ნაწილზე მზე ზენიტს ორჯერ აღწევს (გაზაფხულის და შემოდგომის ბუნიობის პერიოდები), რადგან მზის სიმაღლე მცირედ იცვლება მთელი წლის განმავლობაში, ამიტომ წლის განმავლობაში ადგილი არ აქვს ტემპერატურის მკვეთრ ცვალებადობას. აქედან გამომდინარე ტროპიკებში გამოყოფენ არა ზამთრისა და ზაფხულის პერიოდებს, არამედ მშრალ (უნალექო) და ნალექიან პერიოდებს.

კლიმატური ზონების განსაზღვრისთვის საინტერესო მეთოდი შემოაქვს კიოპენს. კიოპენის მეთოდი, რომელიც კიოპენ - ტრევარტის სახელითაა ცნობილი, გულისხმობს დედამიწის კლიმატის დაყოფას ექვს კლასად, რომელიც დაფუძნებულია ტემპერატურის და ტენიანობის მაჩვენებლის კრიტერიუმებზე. თითოეულ კლასს მინიჭებული აქვს ლათინური ასოები (A, C, D, E, F, B). A, C, D, E, F კლასის კლიმატური ზონები დაჯგუფებულია ტემპერატურების ფაქტორის გათვალისწინებით, კერძოდ მისი საშუალო მაჩვენებლის შემცირებებით ეკვატორიდან პოლუსების მიმართულებით, ხოლო მეექვსე B კლასი, გულისხმობს ტენიანობის დონეს, მშრალი კლიმატის კლასს. გთავაზობთ კიოპენის კლიმატური ზონების განსაზღვრის კრიტერიუმებს.

***ცხრილი #1,*** *კიოპენ - ტრავერტის კლიმატოლოგიური კლასების კრიტერიუმების ცხრილი*

| კლიმატური კლასი | კლიმატური ზონა | კრიტერიუმები |
|---|---|---|
| A | ტროპიკული კლიმატი | მთელი წლის განმავლობაში საშუალო თვიური ტემპერატურა მეტია 17 $^0$C-ზე. |
| ყინვის საზღვარი | | |
| C | სუბტროპიკული კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 8-12 თვის განმავლობაში |
| D | ზომიერი კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 4-7 თვის განმავლობაში |
| E | სუბარქტიკული კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 1-3 თვის განმავლობაში |
| ტყის საფარის საზღვარი | | |
| F | პოლარული კლიმატი | არც ერთ თვეში საშუალო თვიური ტემპერატურა არ არის 9 $^0$C-ზე მეტი |
| სიმშრალის საზღვარი | | |
| B | მშრალი კლიმატი | აორთქლება აჭარბებს ნალექებს |

როგორც ცხრილიდან #1 ჩანს, A და C კლიმატებს შორის მოთავსებულია ყინვის საზღვარი, E და F კლიმატებს შორის მოთავსებულია ტყის საფარის საზღვარი, ყველა კლიმატსა და B კლიმატს შორის მოთავსებულია სიმშრალის საზღვარი.

***მშრალი კლიმატი - B***

ამა თუ იმ რეგიონის კლიმატს რომ მივანიჭოთ მშრალი კლიმატის დეფინიცია, აუცილებელია საშუალო წლიური ნალექების რაოდენობას შევადაროთ **სიმშრალის ზღვარს სზ**, რომელიც განისაზღვრება ფორმულით.

**სზ = 20(t- 10 $^0$C + 0,3*ზპნ);** **(1)**

სადაც, t ჰაერის საშუალო წლიური ტემპერატურაა ($^0$C), **ზპნ (ზაფხულის პერიოდის ნალექები) - ზაფხულის პერიოდის ჯამური ნალექების პროცენტული წილი წლიურ ნალექთან მიმართებაში.** ჩრდილოეთ ნახევარსფეროში ზაფხულის ნალექებად მოიაზრება აპრილის თვიდან დაწყებული სექტემბრის ჩათვლით ჯამური ნალექების ოდენობა, ხოლო სამხრეთ ნახევარსფეროსთვის ოქტომბრიდან დაწყებული მარტის თვის ჩათვლით.

თუ კონკრეტულ რეგიონში წლიურად მოსული ნალექების რაოდენობა (R) სიმშრალის ზღვარის (სზ) ნახევარზე მეტი არ არის, ანუ

**R<=სზ/2;** **(2)**

მაშინ ასეთი კლიმატს ეძახიან **„უდაბნოს კლიმატი“ და აღინიშნება *BW* სიმბოლოთი. უდაბნოს კლიმატის ზღვრული კრიტერიუმი (უკზკ) გამოითვლება ფორმულით**

**უკზკ = სზ/2 = 10(t- 10 $^0$C + 0,3*ზპნ) მმ; (3)**

თუ წლიურად მოსული ნალექების (მმ) R რაოდენობა სიმშრალის ზღვარზე (**სზ**) ნაკლებია, მაგრამ მეტია უდაბნოს კლიმატის ზღვრულ კრიტერიუმზე (**უკზკ**),

**უკზკ**<R<**სზ;** **(4)**

მაშინ ასეთი რეგიონის კლიმატი აღინიშნება ***BS* სიმბოლოთი და მას ნახევრად უდაბნოს ანუ სტეპების კლიმატი ეწოდება.** ***BW*** *- **უდაბნოს კლიმატი, BS**-გან განსხვავებით ხასიათდება ტყის საფარის წარმოქმნისთვის აუცილებელი წყლის, დიდი ნაკლებობით. **B** კლიმატში გამოიყოფა **„ზღვის უდაბნოს“ BM** კლიმატი, რომელიც ხასიათდება ნალექების მცირე რაოდენობით, მაგრამ ჰაერის მაღალტენიანობით.*

***ტროპიკული კლიმატი A-*** მოიცავს ოთხ ქვეკლასს, რომლებიც ერთმანეთისაგან განსხვავდებიან წვიმიანი სეზონების ხასიათების მიხედვით. ***მაგ. Ar - ტროპიკული ნალექიანი (წვიმიანი) კლიმატი, Am - ტროპიკული მუსონური ნალექიანი (წვიმიანი) კლიმატი, Aw – ტროპიკული კლიმატი მშრალი ზამთრითა და ნალექიანი ზაფხულით, As - ტროპიკული კლიმატი მშრალი ზაფხულით და ნალექიანი ზამთრით.***

A კლიმატში თვე ითვლება ნალექიანად თუ ნალექების რაოდენობა თვეში არანაკლებ 60 მმ-ია. რეგიონი ტროპიკულ ნალექიან კლიმატს (Ar) მიეკუთვნება, თუ წელიწადში ცხრა თვეზე მეტია ნალექიანი (ანუ თვეში ნალექების რაოდენობა არანაკლებ 60 მმ-ია). Am - ტროპიკული მუსონური ნალექიანი (წვიმიანი) კლიმატისთვის დამახასიათებელია ათ თვეზე ნაკლები ნალექიანი თვეების რაოდენობა, იმ პირობით რომ წლიური ნალექების რაოდენობა R>=(100 – $r_n$)*25, სადაც $r_n$ - ყველაზე მშრალი თვის საშუალო თვიური ნალექებია. Aw და As კლიმატური ზონები თვით მათი სახელწოდებებიდანაც ნათელია რას წარმოადგენს.

***სუბტროპიკული კლიმატი C – მოიცავს სამ ქვეკლასს:***

***Cr - სუბტროპიკული ნალექიანი (წვიმიანი) კლიმატი;***

***Cw - სუბტროპიკული კლიმატი ნალექიანი (წვიმიანი) ზაფხულით და მშრალი ზამთრით;***

***Cs - სუბტროპიკული კლიმატი ნალექიანი (წვიმიანი) ზამთრით და მშრალი ზაფხულით (ხმელთაშუა ზღვის სანაპირო).***

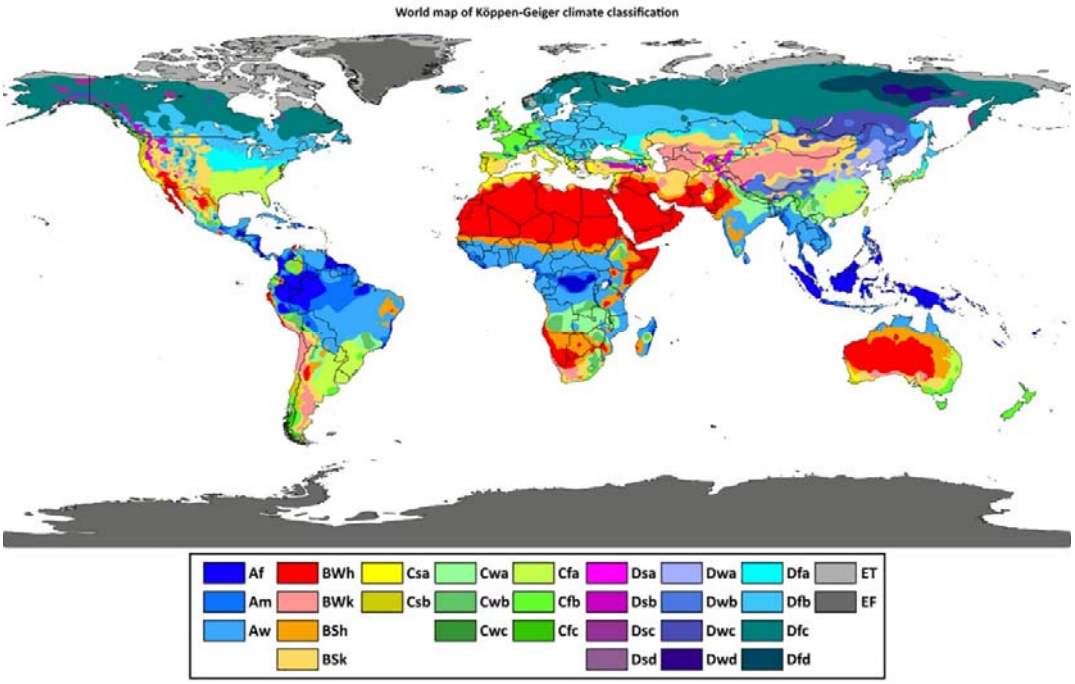
სუბტროპიკულ ნალექიან კლიმატს **Cr** განეკუთვნება რეგიონი, სადაც განსხვავება ნალექების რაოდენობაში ყველაზე ნალექიან და ყველაზე მშრალ თვეს შორის ნაკლებია, ვიდრე ნალექების რაოდენობა, რომელიც აუცილებელია **ნალექიანი ზაფხულისთვის** და **ნალექიანი ზამთრისთვის**, ან ზაფხულის (აპრილი - სექტემბერი) ყველაზე მშრალი თვის ნალექის რაოდენობა 29 მმ-ზე მეტია. Cs – „სუბტროპიკული კლიმატი **ნალექიანი ზამთრით და მშრალი ზაფხულით**“ კლიმატისთვის დამახასიათებელია 890 მმ-ზე ნაკლები წლიური ნალექების რაოდენობა და ზამთარში ნალექების რაოდენობა სამჯერ უფრო მეტი უნდა იყოს ვიდრე ზაფხულში. რეგიონი მიეკუთვნება Cw კლიმატურ ზონას თუ ზაფხულში ნალექების რაოდენობა 10 -ჯერ მეტია ვიდრე ზამთარში. აქედან გამომდინარე A,B, C კლიმატოლოგიურ კლასებში მნიშვნელოვანია ნალექების რაოდენობა და მათი განაწილება თვეების მიხედვით.

**ზომიერი კლიმატი D** – იყოფა ორ ტიპად, **ზომიერი ზღვის DO კლიმატი** და **ზომიერი კონტინენტური კლიმატი DC**. ზღვის და კონტინენტურ კლიმატად დაყოფა ხორციელდება წლის ყველაზე ცივი თვის საშუალო ტემპერატურის მიხედვით. ზომიერ ზღვის კლიმატურ ზონაში საშუალო ტემპერატურა უნდა იყო 0 $^0$C-ზე მეტი ან ტოლი, ხოლო ზომიერ კონტინენტურ კლიმატურ ზონაში 0 $^0$C-ზე ნაკლები.

**სუბარქტიკული კლიმატი E** – ეს ზონაც იყოფა ორ ქვეკლასად, **სუბარქტიკული ზღვის კლიმატი EO**, სადაც ყველაზე უფრო ცივი თვის ტემპერატურა უნდა იყოს -10$^0$ C-ზე მეტი და **სუბარქტიკული კონტინენტური კლიმატი EC**, სადაც ყველაზე უფრო ცივი თვის ტემპერატურა უნდა იყოს -10$^0$ C-ზე ნაკლები. აღსანიშნავია, რომ კლიმატურ A, C, D, და E ზონებს **„ტყის კლიმატის“** სახელით იხსენიებენ, რადგან ამ კლიმატური ზონებისთვის დამახასიათებელია საკმაო რაოდენობის სითბო ტყის საფარის ზრდის და განვითარებისთვის.

**პოლარული კლიმატი F** - პოლარული კლიმატი ზომიერი განედების მიმართულებით მოიცავს ტყის საფარის საზღვარს, რომელიც ემთხვევა 10$^0$ C იზოთერმას. პოლარული კლიმატი წლის ყველაზე უფრო თბილი თვის საშუალო ტემპერატურის მიხედვით იყოფა ორ ქვეკლასად. 0$^0$ C-დან 10$^0$ C-მდე განეკუთვნება **ტუნდრის კლიმატს FT**, ხოლო თუ წლის ყოველი თვის საშუალო ტემპერატურა ნაკლებია 0$^0$ C-ზე, **ყინულოვან კლიმატურ ზონას - FI**.

***სურათი #2,*** *ვლადიმერ კიოპენის კლიმატოლოგიური კლასიფიკაცია*[2]




ამრიგად კიოპენისა და ტრავერტის კლიმატური ზონების კლასიფიკაცია აერთიანებს 16 კლიმატოლოგიურ ზონას.

***Ar — ტროპიკული ნალექიანი (წვიმიანი) კლიმატი;***

***Am — ტროპიკული მუსონური ნალექიანი (წვიმიანი) კლიმატი;***

***Aw — ტროპიკული კლიმატი ნალექიანი (წვიმიანი) ზაფხულით;***

***As — ტროპიკული კლიმატი ნალექიანი (წვიმიანი) ზამთრით;***

***BS —სტეპის კლიმატი;***

***BW — უდაბნოს კლიმატი;***

***BM — „ზღვის უდაბნოს“ კლიმატი;***

[2] Peel, M.C. and Finlayson, B.L. and McMahon, T.A. (2007), University of Melbourne, Vectorization by Ali Zifan;

*Cr — სუბტროპიკული ნალექიანი კლიმატი;*

*Cw — სუბტროპიკული კლიმატი ნალექიანი (წვიმიანი) ზაფხულით;*

*Cs — სუბტროპიკული კლიმატი ნალექიანი (წვიმიანი) ზამთრით;*

*DO — ზომიერი ზღვის კლიმატი;*

*DC — ზომიერი კონტინენტური კლიმატი;*

*EO — სუბარქტიკული ზღვის კლიმატი;*

*EC — სუბარქტიკული კონტინენტური კლიმატი;*

*FT — ტუნდრის კლიმატი;*

*FI — ყინულოვანი კლიმატური ზონა.*

კიოპენისა და ტრევარტის აღნიშნული კლიმატოლოგიური კლასიფიკაციის მიხედვით მოხდა მთელი დედამიწის დაყოფა კლიმატოლოგიურ ზონებად (იხ. სურათი #2).

მნიშვნელოვანი წვლილი კლიმატოლოგიის განვითარებაში შეიტანა **ლევ ბერგემ,** მის მიერ შემუშავებული კლიმატოლოგიური კლასიფიკაცია აერთიანებს ორი კლასის კლიმატს:

1. **დაბლობების კლიმატი;**
2. **მაღალი პლატოების კლიმატი.**

ლ. ბერგეს მიერ შემოთავაზებული კლიმატური ზონების კლასიფიკაცია დაფუძნებულია ხმელეთის ლანდშაფტურ-გეოგრაფიულ ზონებზე. ბერგეს აზრით გეოგრაფიული ლანდშაფტის ერთ-ერთ განმსაზღვრელ კომპონენტს კლიმატი წარმოადგენს. მისი აზრით კლიმატური ზონები ემთხვევა გეოგრაფიულ ლანდშაფტურ ზონებს, მაგრამ თავის კვლევებში აღნიშნავს, რომ შესაძლებელია არსებობდეს გამონაკლისებიც. კლიმატური ზონების საზღვრების დადგენაში იგი იყენებდა ვ. კიოპენის და სხვა მკვლევარების მიერ განვითარებულ რაოდენობრივ კრიტერიუმებს და ასევე ლანდშაფტის ისეთ მახასიათებლებს - როგორიცაა ადგილობრივი ფლორა და დედამიწის ზედაპირის ნიადაგის მდგომარეობა. ბერგეს კვლევების მიმართულება იყო ლიმნოლოგიაც. მან დამატებით შეიმუშავა ლიმნოლოგიური რუკები. თვით დეფინიცია ლიმნოლოგია პირველად გაჩნდა მე-19 საუკუნეში. ლიმნოლოგიის კვლევის სამეცნიერო საფუძვლები ჩაუყარა შვეიცარიელმა მეცნიერმა ფ. ფორელმა[3]. ტბების, მდინარეების, წყალსაცავების და სხვა მსგავსი ადგილების კვლევის მიმართულება - ანუ ლიმნოლოგია ჰიდროლოგიის, ჰიდროფიზიკის, ჰიდროქიმიის, გეომორფოლოგიის და სხვა სამეცნიერო მიმართულების კვლევის მეთოდებზეა დაფუძნებული. უნდა აღინიშნოს, რომ ამ სფეროს კვლევის თანამედროვე გაგება, ჰიდრორესურსების შესაბამის ადგილებში ძირითადად ბიოპროდუქტიულობის მიმართულებით კვლევებს მოიცავს.

ლ. ბერგეს მიერ შემოთავაზებული კლიმატური კლასი *„დაბლობების კლიმატი“* აერთიანებს ორი ტიპის კლიმატს:

1. **ოკეანის კლიმატი;**
2. **ხმელეთის კლიმატი.**

**დაბლობების კლიმატში გამოიყოფა 11 კლიმატური ზონა.**

**ტუნდრის კლიმატი** - ამ ტიპის კლიმატური ზონის განსაზღვრისთვის იგი იყენებს შემდეგ რაოდენობრივ კრიტერიუმებს. ყველაზე ცხელი თვის საშუალო ტემპერატურაა 10-12 $^0$C, მაგრამ

[3] **Warwick F. VINCENT and Carinne BERTOLA, „François Alphonse FOREL and the oceanography of lakes“, Scientific Jornal “ARCHIVES DES SCIENCES”, Year 2012, pp pp 51-64;**

არანაკლებ $0^0$ C-სა და ფარდობითი ტენიანობა 13 საათის პერიოდის განმავლობაში 70%-ზე მეტია. ტუნდრის კლიმატური ზონა მოიცავს ორ ქვეტიპს.

1. ჩრდილოეთ ნახევარსფეროს ტუნდრა, ტემპერატურის დიდი წლიური ამპლიტუდით - ხმელეთის ტიპის კლიმატი;
2. სამხრეთ ნახევარსფეროს ტუნდრა, ტემპერატურის მცირე წლიური ამპლიტუდით - ოკეანის ტიპის კლიმატი;

**ტაიგის კლიმატი** - ივლისის ტემპერატურა მეტია 10 $^0$C-ზე, მაგრამ არაუმეტეს 20 $^0$C-სა. ტემპერატურის წლიური ამპლიტუდა არაუმეტესია 10 $^0$C-სა, წლიური ნალექები 300-600 მმ, ყველაზე თბილ თვეში ფარდობითი ტენიანობა შეადგენს 50-70%-ს. გამოიყოფა ორი ქვეტიპი:

1. დასავლეთის, ღრუბლიანი და თოვლიანი ზამთრით;
2. აღმოსავლეთ ციმბირის, მშრალი და ძალიანი ცივი ზამთრით;

**ზომიერი ზონის ტყეების კლიმატი (მუხის ხის კლიმატი)** - წლის თბილი პერიოდის, ოთხი თვის საშუალო ტემპერატურები მეტია 10 $^0$C-ზე, მაგრამ არაუმეტესია 22 $^0$C-სა. გამოირჩევა ნალექებიანი ზაფხულით და ასეთი ზონებისთვის დამახასიათებელია ფოთლოვანი ტყის საფარი, უმეტესად გვხვდება მუხის ხეები.

**ზომიერი განედების მუსონური კლიმატი** - ამ კლიმატური ზონისთვისაც დამახასიათებელია მუხის ტყის ლანდშაფტი, როგორც „მუხის ხის“ კლიმატისთვის. დომინანტობს ცივი, მშრალი ზამთარი, ნალექიანი ზაფხული და უპირატესი ქარის მიმართულებების სეზონური ცვლილებები.

**სტეპების კლიმატი** - ზაფხული - ცხელი, ნალექების მაქსიმუმი მოდის ზაფხულის სეზონზე. გააჩნია ორი ქვეტიპი:

1. სტეპების კლიმატი ცივი ზამთრით (ზომიერი სარტყლის სტეპი);
2. სტეპების კლიმატი თბილი ზამთრით (სუბტროპიკული და ტროპიკული სტეპები).

**სტეპების კლიმატი, ცივი ზამთრით (ზომიერი სარტყლის სტეპი),** ამ ზონისთვის დამახასიათებლია რაოდენობრივი კრიტერიუმია, რომ ზაფხულის ყოველი თვის საშუალო ტემპერატურა მეტია 20 $^0$C-ზე და ნაკლებია 23,5$^0$ C-ზე. ივლისსა და აგვისტოში დღე-ღამეში 13 საათის განმვლობაში ფარდობითი ტენიანობა მერყეობს 35-45% დიაპაზონში, ხოლო წლიური ნალექები 200-450 მმ-ია.

**ხმელთაშუა ზღვის კლიმატი** - დამახასიათებელია სუბტროპიკული კლიმატისთვის. გავრცელებულია ცხელი, მშრალი ზაფხული. ზაფხულის საშუალო ტემპერატურაა 23 $^0$C - 28 $^0$C; ზამთარი თბილი და ტენიანია. ყველაზე ცივი თვის ტემპერატურა მეტია ვიდრე 0 $^0$C; ნალექები დამახასიათებელია შემოდგომაზე, ზამთარში და გაზაფხულზე.

**სუბტროპიკული ტყეების კლიმატი** - ყველაზე ცივი თვის საშუალო ტემპერატურა მეტია 2 $^0$C-ზე; ზაფხული ცხელია და უხვნალექიანი. ნალექების წლიური ჯამური მაჩვენებლი მეტია 1000 მმ-ზე, ჯამურ მაჩვენებლში ნიშანდობლივია ზაფხულის ნალექის პრიორიტეტულობა.

**შიდახმელეთის უდაბნოს კლიმატი (ზომიერი სარტყელი)** - დამახასიათებელია ყველას სეზონისთვის ნალექების მცირე რაოდენობა (300 მმ და ნაკლები), განსაკუთრებით ზაფხულში. ზაფხული არის მშრალი, ხანდახან საერთოდ უნალექო. ყველაზე ცხელი თვის საშუალო ტემპერატურაა 25$^0$ - 32$^0$ C. ზამთარი არის ცივი და ყველაზე ცივი თვის საშუალო ტემპერატურა 2 $^0$C-ზე ნაკლებია. იშვიათად მოდის ნალექები თოვლის სახით.

**სუბტროპიკული უდაბნოს კლიმატი (პასატები)** - დამახასიათებელია მცირე რაოდენობის ნალექები, ზაფხული ცხელი და უნალექო, ზამთრის პერიოდში მაქსიმუმი ნალექების მოსვლის მიუხედავად არასაკმარი ტენიანობა ნიადაგის მცენარეული ფენით დაფარვისთვის. ზამთარიც საკმაოდ ცხელი ან თბილია, ზამთრის სეზონის ყველაზე ცივი თვის საშუალო ტემპერატურა არანაკლებ 10 $^0$C-ია. სუბტროპიკული უდაბნოს კლიმატი გამოირჩევა ტემპერატურის დიდი დღიური ამპლიტუდით.

**სავანების კლიმატი, ანუ ტროპიკული ტყესტეპების კლიმატი** - ყველაზე ცივი თვის საშუალო ტემპერატურა არა ნაკლებია ვიდრე 18$^0$ C. გამოირჩევა უხვნალექიანობით, მაგრამ არაუმეტეს 2000 – 2500 მმ წელიწადში, მკვეთრად გამოხატული მშრალი პერიოდებით ზამთარში და გაზაფხულზე. ამ კლიმატური ზონის ზოგ რეგიონებში გვხვდება მუსონები. მუსონების მიმართულებების ცვლის პერიოდებში ადგილი აქვს ტროპიკული ციკლონების წარმოქმნა/განვითარებას.

**ტენიანი ტროპიკული ტყეების კლიმატი** - გამოირჩევა უხვნალექიანობით, არანაკლებ 1500 მმ წელიწადში. საშუალო ტემპერატურა ყველაზე უფრო ცივი თვისა არანაკლებ 18$^0$ C -ია. ტემპერატურის საშუალო წლიური ამპლიტუდა მცირეა და შეადგენს 1$^0$C -დან 6 $^0$C -მდე. წლიურ მოძრაობაში წვიამიანი პერიოდების ორი მაქსიმუმი მოდის გაზაფხულისა და შემოდგომის ბუნიობის პერიოდებზე. მშრალი პერიოდი გრძელდება მხოლოდ ძალინ მოკლე, მცირე პერიოდით.

***მაღალი პლატოების კლიმატი*** - განეკუთვნება ჰორიზონტალური ზედაპირები (პლატოები) აბსოლუტური სიმაღლით არაუმეტეს 1000 მეტრისა. ლ. ბერგის აზრით **მაღალი პლატოების კლიმატი** და **დაბლობების კლიმატი** ერთმანეთის იდენტურია, მეცნიერის აზრით, იგივე კლიმატური ზონები მხოლოდ სიმაღლეზეა ატანილი, რაც რეგიონის კლიმატოლოგიური მახასიათებლიდან გამომდინარე აყალიბებს განსხვავებულ მეტეოროლოგიურ პარამეტრებს. მაღალი პლატოების კლიმატი გამოირჩევა ტემპერატურის უფრო მაღალი დღიური ამპლიტუდით, ვიდრე დაბლობების კლიმატი.

მაღალი პლატოების კლიმატში ლ. ბერგი გამოყოფს შემდეგ კლიმატოლოგიურ ტიპებს:

**პოლარული ყინულოვანი პლატოების კლიმატი** - მუდმივი ყინულის კლიმატი, ასეთ კლიმატოლოგიურ ზონაში ტემპერატურა ყოველთვის 0 $^0$C ნაკლებია.

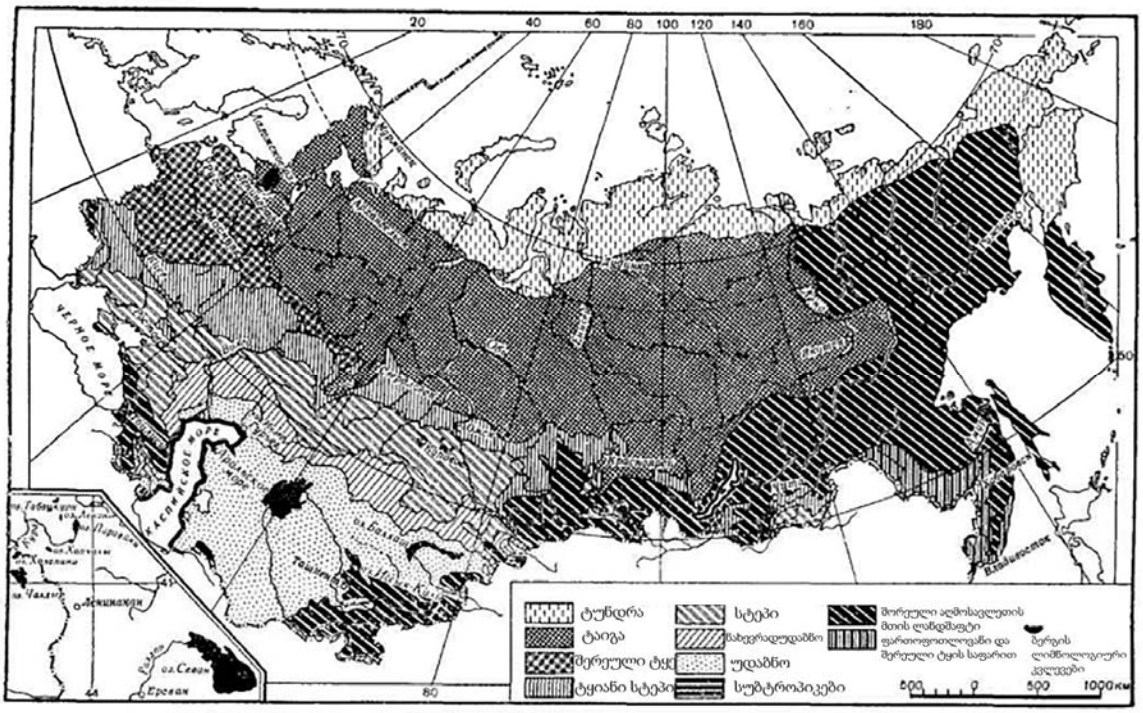
**მაღალი სტეპების და ნახევრად უდაბნოს ზომიერი კლიმატი;**

**ზომიერი სარტყელის უდაბნოების კლიმატი;**

**ტიბეტის კლიმატი;**

**სუბტროპიკული სტეპების ანუ ირანის კლიმატი** - ცხელი ზაფხულით და ზომიერი ზამთრით. წლიური ნალექების რაოდენობა მცირეა და მერყეობს 130-250 მმ დიაპაზონში. ნალექების მაქსიმუმი დაიკვირვება ზამთარში და გაზაფხულზე, ზაფხული უნალექოა;

**ტროპიკული პლატოების, მაღალი სავანების კლიმატი** - ტემპერატურის ამპლიტუდა მცირეა. მაქსიმალური ნალექები მოდის ზაფხულის მეორე ნახევარში. ზამთარი და გაზაფხულის ხანმოკლე პერიოდი უნალექო და მშრალია.




ლ. ბერგეს ლანდშაფტური ზონები და ლიმნოლოგიური კვლევები

მნიშვნელოვანი წვლილი კლიმატოლოგიის, როგორც მეცნიერების დარგის განვითარებაში შეიტანა ცნობილმა მეცნიერმა ანტონ კამინსკიმ. ა. კამინსკი რეგიონის კლიმატოლოგიურ მახასიათებლებს განიხილავს ქარის, ტემპერატურის და ფარდობითი ტენიანობის მეტეოროლოგიურ ელემენტზე დაყრდნობით. იგი თავის ნაშრომებში ყოველი რეგიონისთვის გამოყოფს ქარების როგორც გაბატონებულ, ასევე სხვა ნებისმიერ მიმართულებას, განიხილავს მათ განმეორებადობას დროში და მათ კორელაციას ფარდობით ტენიანობასთან და ტემპერატურასთან მიმართებაში. მეთოდი საკმაოდ საინტერესოა, კამინსკიმ დაადგინა კავშირები, თუ რომელი მიმართულების ქარების დროს ხდება მაქსიმალური ტენიანობის შემოტანა და ტემპერატურული ცვლილებები. ჰაერის ტენიანობის კვლევისას, ის განიხილავს აბსოლუტურ, ფარდობით ტენიანობას და ატმოსფეროს წყლის ორთქლით სრული გაჯერების დეფიციტის მაჩვენებელს. მეცნიერი კლიმატოლოგიური ხასიათის ანალიზისას, უპირატესობას ანიჭებს ფარდობით ტენიანობას და მის მიერ შექმნილ ცხრილებში კარგად იკვეთება, ფარდობითი ტენიანობისა და ტემპერატურის ურთიერთკავშირები, რაც აძლევს მას საშუალებას განსაზღვროს ამათუ იმ რეგიონში აბსოლუტური ტენიანობაც და მისი კავშირები ჰაერის მასების მოძრაობის მიმართულებებთან, ანუ ქარებთან. ანტონ კამინსკიმ მეტეოროლოგიური ელემენტის, ქარის სიჩქარის კორეალაცია ასახა რეგიონის წნევის ცვალებადობასთან. იგი ამბობს, რომ რაც უფრო მეტია წნევის ცვალებადობა დროში, უფრო მეტია იმის შანსი, რომ წარმოიქნას უფრო მაღალი ბარიულ გრადიენტი ამავე დროში. ამის დასტურად იგი ეყრდნობა მის მიერ

[4] სურათი ამოღებულია და შემდგომ დამუშავებულიავებულია ვებ-გვერდიდან http://big-archive.ru/geography/domestic_physical_geographers/81.php

შექმნილ 5 წლიან (1891-1895) სტატისტიკურ მონაცემებს, სადაც ნათლად იკვეთება გარკვეულ დროის ერთეულში წნევის მაღალი ცვალებადობის (წნევის არასტაბილურობის) კავშირები ქარის სიჩქარეებთან. ასეთი კავშირები მან განსაზღვრა თითოეული თვის მიხედვით. მაგალითად, რუსეთის ტერიტორიაზე არსებული მეტეოსადგურების მონაცემების შესწავლით დაადგინა, რომ მაქსიმალური წნევის ცვალებადობას ადგილი აქვს შემოდგომის ბოლოს და ზამთრის პერიოდში და შესაბამისად, ამ პერიოდებში დაიკვირვება მაქსიმალური საშუალო ქარის სიჩქარეებიც.

ბ. ალისოვის კლიმატოლოგიური ზონების გამოყოფა დაფუძნებულია ატმოსფეროს საერთო ცირკულაციის ასპექტზე. საქართველოს ტერიტორიული სიმცირის გამო, სინოპტიკური მასშტაბის ატმოსფეროს ცირკულაციური პროცესები იდენტურია ქვეყნის მთელ ტერიტორიაზე. მიუხედავად ამისა, საქართველოს ოროგრაფიული მრავალფეროვნება, ზღვის, კონტინენტური ჰაერის მასების ერთბლიობა, მთა-ხეობათა კომპლექსების სიუხვე, ქმნის ამ მცირე ტერიოტორიაზე რადიკალურად განსხვავებულ, ლოკალური კლიმატური პირობების ჩამოყალიბების წინაპირობას. დედამიწაზე არსებული კლიმატოლოგიური პროცესები განსხვავებულ გეოგრაფიულ პირობებში ქმნიან ლოკალურ კლიმატს. ლოკალური კლიმატი დამოკიდებულია კონკრეტულ განედზე, რეგიონის ოროგრაფიაზე, კონტინენტურობაზე და ა.შ.. ზემოთ აღწერილი ბორის ალისოვის მეთოდით ცალსახად განსაზღვრული კლიმატური ზონალობა, საქართველოს მაგალითზე, ხშირ შემთხვევაში ირღვევა აზონალური ფაქტორების გათვალისწინებით. ჩემი აზრით, ბ. ალისოვის მეთოდი სრულად ვერ ამოწურავს საქართველოს კლიმატოლოგიურ მრავალფეროვნებას, რომელიც გამოწვეულია ადგილობრივი ოროგრაფიული თავისებურებებით.

ლ. ბერგის ლანდშაფტურ-გეოგრაფიულ სპეციფიკაზე დაფუძნებული კლიმატოლოგიური კლასიფიკაცია, მორგებულია სხვა რეგიონის (არა საქართველოს) ლანდშაფტურ თავისებურებებს, ხოლო რაც შეეხება მეტეოროლოგიურ ასპექტს, როგორც ზემოთ აღვნიშნე მეცნიერი იყენებს კიოპენის მსგავს მეტეო ელემენტების რაოდენობრივ კრიტერიუმებს. ჩემი აზრით, ბერგეს კლიმატოლოგიური კლასიფიკაციის მეთოდოლოგიის გამოყენება საქართველოსთვის, ლანდშაფტური მიმართულების დამატებით სამეცნიერო კვლევებს მოითხოვს, რაც დამატებითი დროის, ადამიანურ და ფინანსურ რესურსებთანაა დაკავშირებული და ამ ეტაპზე მისი გამოყენება არარელევანტურია, რადგან ჩემი კვლევის ზოგადი მიმართულებაა საავიაციო მეტეოროლოგია, კლიმატოლოგია და მეტეოროლოგიური პირობების მიხედვით საქართველოს აეროდრომების მიკუთვნება კონკრეტული კლიმატური ზონებისთვის და არა საქართველოს ცალკეული რეგიონების და ადგილების დაყოფა კლიმატურ ზონებად.

ა. კამინსკის კვლევის მეთოდოლოგია და მიმართულება საკმაოდ საინტერესოა და მრავლისმეტყველი. ჩემი აზრით, დროში მეტეოროლოგიური ელემენტების კორელაციის კვლევები, კლიმატოლოგიური თვალსაზრისით საკმაოდ მრავლისმთქმელ ინფორმაციას აწვდის მკითხველს და შესასძლებელია ამ კორელაციათა მათემატიკურმა ფორმალიზაციამ საინტერესო შედეგებიც მოგვცეს. მეტეო ელემენტების სხვადახვა კორელაციები დამუშავებული მაქვს ამ წიგნშიც, მაგალითად, საშუალო ტემპერატურის, ფარდობითი ტენიანობის და ნამის წერტილის; ნალექების ჯამური მნიშვნელობების და საშუალო ტემპერატურის და ა.შ. კვლევის ეს მიმართულებაც სცილდება დასმული მიზნის რეალიზაციის პროცესს.

აქედან გამომდინარე, საქართველოს აეროდრომების (თბილისი, ქუთაისი, ბათუმი) გარკვეულ კლიმატურ ზონებზე მიკუთვნება დავაფუძნე *კიოპენის და ტრევარტის* კლიმატური ზონების განსაზღვრის მეთოდს, რადგან ეს მეთოდი დაფუძნებულია მეტეოროლოგიური ელემენტების კონკრეტულ კრიტერიუმებზე, რაც საკმაოდ მაქვს დამუშავებული წინამდებარე წიგნში. ქვემოთ იხილეთ თბილისის, ქუთაისის და ბათუმის საერთაშორისო აეროპორტების მეტეოელემენეტების კრიტერიუმების კლასიფიკაცია კიოპენის მეთოდის მიხედვით.

თბილისის საერთაშორისო აეროპორტის კლიმატოლოგიური მონაცემების ანალიზი კიოპენის კლიმატოლოგიური კლასიფიკაციის მიხედვით (*იხ. ცხრილი #1*).

***ცხრილი #1**, კიოპენის კლიმატოლოგიური კლასიფიკაციის ცხრილი (UGTB)*

| კლიმატური კლასი | კლიმატური ზონა | კრიტერიუმები |
|---|---|---|
| A | ტროპიკული კლიმატი | მთელი წლის განმავლობაში საშუალო თვიური ტემპერატურა მეტია 17 $^0$C-ზე. |
| UGTB | | არა |
| ყინვის საზღვარი | | |
| C | სუბტროპიკული კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 8-12 თვის განმავლობაში |
| UGTB | | არა |
| D | ზომიერი კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 4-7 თვის განმავლობაში |
| UGTB | | კი |
| E | სუბარქტიკული კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 1-3 თვის განმავლობაში |
| UGTB | | |
| ტყის საფარის საზღვარი | | |
| F | პოლარული კლიმატი | არც ერთ თვეში საშუალო თვიური ტემპერატურა არ არის 9 $^0$C-ზე მეტი |
| UGTB | | არა |
| სიმშრალის საზღვარი | | |
| B | მშრალი კლიმატი | აორთქლება აჭარბებს ნალექებს |
| UGTB | | |

**მოდელი G-ის ანალიზმა გვაჩვენა, რომ აპრილში, მაისში, ივნისში, ივლისში, აგვისტოში, სექტემბერში და ოქტომბერში, ანუ წლის 7 (შვიდი) თვის განმავლობაში თბილისის საერთაშორისო აეროპორტში (2010-2018 წლის დაკვირვებების საფუძველზე) ჰაერის საშუალო ტემპერტურა ყოველთვის 9 $^0$C-ზე მეტია, რაც აუცილებელი წინაპირობაა იმისათვის, რომ კიოპენის კლიმატოლოგიური კლასიფიკატორის მიხედვით, თბილისის საერთაშორისო აეროპორტი მივაკუთვნოთ ზომიერ კლიმატურ ზონას.**

ზომიერი კლიმატოლოგიურ ზონა იყოფა ორ ქვეკლასად - ზღვის ზომიერი კლიმატი და კონტინენტური ზომიერი კლიმატი. თბილისის საერთაშორისო აეროპორტი, ერთ-ერთ ტიპს რომ მივაკუთვნოთ, უნდა ჩავატაროთ დამატებითი ანალიზი. კერძოდ, კიოპენის კლასიფიკაციის მიხედვით, აუცილებელი წინაპირობაა, რომ თუ წლის ყველაზე ცივი თვის საშუალო ტემპერატურა 0 $^0$C-ზე მეტი ან ტოლია, მაშინ რეგიონი მიეკუთვნება DO - ზომიერ ზღვის კლიმატს, ხოლო თუ ნაკლებია 0 $^0$C-ზე - DC - ზომიერ კონტინენტურ კლიმატს. ანალიზმა გვიჩვენა, რომ (მოდელი G-ს მიხედვით) დეკემბერში, იანვარში და თებერვალში ჰაერის საშუალო ტემპერატურა ათწლიანი გასაშუალოებით შეადგენს შესაბამისად 4,25 $^0$C-ს, 2,98 $^0$C-ს და 4,62 $^0$C-ს. მინდა ავღნიშნო, რომ კლიმატოლოგიური დაკვირვებების საფუძველზე, ამ სამ თვეს შორის ყველაზე დაბალი ტემპერატურის აბსოლუტური მნიშვნელობებით გამოირჩევა თებერვლის თვე. ცხრა წლიანი დაკვირვებების საფუძველზე, 2014 წლის თებერვლის თვეში ტემპერატურის მნიშვნელობამ მიაღწია მინიმუმს და შეადგინა -14 $^0$C. მხოლოდ 2012 წლის თებერვლის თვის აბსოლუტური ტემპერატურის საშუალო მაჩვენებლმა შეადგინა -0,59$^0$ C, დანარჩენ წლებში (2010-2019) თვის საშუალო მნიშვნელობა ყოველთვის 0$^0$ C-ზე მეტი იყო. თებერვლის თვეზე - „ყველაზე ცივი თვის“ დეფინიციის მინიჭების მიუხედავად, ცხრაწლიანი მონაცემების გასაშუალოებით თებერვლის თვის საშუალო ტემპერატურის მაჩვენებელმა (4,62 $^0$C) უფრო მეტი შეადგინა ვიდრე იანვრში (2,98 $^0$C) და დეკემბერში (4,25 $^0$C). იანვრის და დეკემბრის თვის საშუალო ტემპერატურებიც ათწლიანი მონაცემების საფუძველზე 0 $^0$C-ზე მეტია.

ამრიგად, ემპირიული მონაცემების ანალიზის საფუძველზე, კიოპენის კლიმატოლოგიური კრიტერიუმების მიხედვით (იხ. ცხრილი #1) თბილისის საერთაშორისო აეროპორტი განეკუთვნება **ზომიერი ზღვის კლიმატურ ზონას - DO.**

*ქუთაისის დავით აღმაშენებლის სახელობის საერთაშორისო აეროპორტი*

ქუთაისის საერთაშორისო აეროპორტის კლიმატური ზონის განსაზღვრისთვის, კიოპენის კლიმატოლოგიური კლასიფიკაციის მიხედვით, ჩავატარე ათწლიანი დაკვირვების შედეგად მიღებული მეტეოელემენტების ანალიზი.

პირველ რიგში, კიოპენის კლიმატოლოგიური კლასიფიკაციის მოთხოვნების შესაბამისად, მოდელი G-დან განვსაზღვრე 9 $^0$C-ზე მეტი საშუალო ტემპერატურის მქონე თვეების რაოდენობა. აღმოჩნდა, რომ ათ წლიანი ემპირიული მონაცემების საფუძველზე აპრილიდან ოქტომბრის თვის ჩათვლით (7 თვე) საშუალო თვიური ტემპერატურა ყოველთვის 9 $^0$C-ზე მეტია. 2012 წლის მარტის თვეში საშუალო თვიურმა ტემპერატურამ შეადგინა 4,29 $^0$C, სხვა დანარჩენ წლებში, მარტის თვის საშუალო ტემპერატურა ყოველთვის 9 $^0$C-ზე მეტია. ათწლიანი (2010-2019) მონაცემების საფუძველზე, მარტის თვის საშუალო ტემპერატურა შეადგენს 10,01 $^0$C-ს. ვფიქრობ, შესაძლებელია დავუშვათ, რომ მარტის თვის საშუალო თვიური ტემპერატურაც 9 $^0$C-ზე მეტია. იგივე სურათია ნოემბრის თვეშიც, მხოლოდ 2011 წელს ნოემბრის თვის საშუალო ტემპერატურამ შეადგინა 6,06 $^0$C, სხვა წლებში (2010-2019) ნოემბრის თვის საშუალო ტემპერატურა ყოველთვის 9 $^0$C-ზე მეტია. ათწლიანი მონაცემების გასაშუალოებით, ნოემბრის თვის საშუალო ტემპერატურამაც შეადგინა 11,39 $^0$C, ანუ 9 $^0$C-ზე მეტი.

აქედან გამომდინარე ქუთაისის აეროპორტში ჩატარებული კლიმატოლოგიური ანალიზის საფუძველზე განისაზღვრა, რომ 9 თვის განმავლობაში (მარტი-ნომებერი) საშუალო თვიური ტემპერატურა 9$^0$ C-ზე მეტია. რაც აუცილებელია წინაპირობაა, რომ ქუთაისის საერთაშორისო აეროპორტი კლიმატოლოგიური მონაცემების საფუძველზე მივაკუთნოთ სუბტროპიკულ კლიმატურ ზონას (*იხ. ცხრილი #2*).

***ცხრილი #2,*** *კიოპენის კლიმატოლოგიური კლასიფიკაციის ცხრილი (UGKO)*

| კლიმატური კლასი | კლიმატური ზონა | კრიტერიუმები |
|---|---|---|
| A | ტროპიკული კლიმატი | მთელი წლის განმავლობაში საშუალო თვიური ტემპერატურა მეტია 17 $^0$C-ზე |
| UGKO | | არა |
| ყინვის საზღვარი | | |
| C | სუბტროპიკული კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 8-12 თვის განმავლობაში |
| UGKO | | კი |
| D | ზომიერი კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$Cზე, 4-7 თვის განმავლობაში |
| UGKO | | |
| E | სუბარქტიკული კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 1-3 თვის განმავლობაში |
| UGKO | | |
| ტყის საფარის საზღვარი | | |
| F | პოლარული კლიმატი | არც ერთ თვეში საშუალო თვიური ტემპერატურა არ არის 9 $^0$C-ზე მეტი |
| UGKO | | არა |
| სიმშრალის საზღვარი | | |
| B | მშრალი კლიმატი | აორთქლება აჭარბებს ნალექებს |
| UGKO | | |

ქუთაისის საერთაშორისო აეროპორტი ზემოთ აღწერილი სუბტროპიკული ზონის რომელიმე ქვეტიპს რომ მივაკუთვნოთ, აუცილებელია ჩავატაროთ დამატებითი ანალიზი, კერძოდ ზაფხულის პერიოდის ყველაზე მშრალ თვეში (კიოპენის კლასიფიკაციის მიხედვით, ზაფხულის თვეებია აპრილიდან სექტემბრის ჩათვლით) მოსული ჯამური ნალექების მიხედვით.

**სუბტროპიკული ზონის სამივე ქვეკლასისთვის ჩატარდა ანალიზი და მინდა ავღნიშნო, რომ ქუთაისის აეროპორტი სუბტროპიკული კლიმატური ზონის, ქვეკლასებს Cw (სუბტროპიკული კლიმატი ნალექიანი ზაფხულით და მშრალი ზამთრით) და Cs (სუბტროპიკული კლიმატი ნალექიანი ზამთრით და მშრალი ზაფხულით) არ აკმაყოფილებს (იხ. ცხრილი #3).**

***ცხრილი #3.*** *ქუთაისის აეროპორტის ცხრაწლიანი (2010-2019) დაკვირვების საფუძველზე, ცალკეულ თვეზე და სეზონებზე მოსული ნალექების ჯამური რაოდენობები (მმ).*

| | | | |
|---|---|---|---|
| დეკემბერი | 1308.7 | | |
| იანვარი | 1183.4 | | |
| თებერვალი | 927.1 | ზამთარი | 3419,2 |
| მარტი | 1262.5 | | |
| აპრილი | 826.5 | | |
| მაისი | 592.8 | გაზაფხული | 2681,8 |
| ივნისი | 931 | | |
| ივლისი | 591.6 | | |
| აგვისტო | 536.9 | ზაფხული | 2059,5 |
| სექტემბერი | 1216.2 | | |
| ოქტომბერი | 1100.8 | | |
| ნოემბერი | 1137.6 | შემოდგომა | 3454,6 |

კიოპენის კლიმატოლოგიური კლასიფიკაციის მიხედვით **Cs** კლიმატური ზონისთვის დამახიათებელია 890 მმ-ზე ნაკლები წლიური ნალექების რაოდენობა, ხოლო მოდელი N-ის მიხედვით ქუთაისის აეროპორტში მოსული ნალექების ჯამური რაოდენობა ყოველთვის 890 მმ-ზე მეტია და მერყეობს 1000-დან 1500 მმ-მდე (მოდელი O). **Cw** კლიმატური ზონისთვის დამახასიათებელია, რომ ზაფხულში მოსული ნალექების რაოდენობა 10-ჯერ მეტი უნდა იყოს ვიდრე ზამთარში მოსული ნალექების რაოდენობა, რაც არ შეესაბამება ქუთაისის ფაქტიურ კლიმატოლოგიურ მონაცემებს. ზამთრის და შემოდგომის პერიოდები გამოირჩევა ყველაზე მეტი ნალექების რაოდენობით ვიდრე წლის დანარჩენი სეზონები (იხ. ცხრილი #3).

ანალიზი ჩავატარე სუბტროპიკული კლიმატური ზონის, Cr (სუბტროპიკული ნალექიანი (წვიმიანი) კლიმატი) ქვეკლასისთვისაც.

***ცხრილი #4.*** *ქუთაისის საერთაშორისო აეროპორტში თვეების მიხედვით დაჯგუფებული, ცხრა (2011-2019) წლის განმავლობაში მოსული ნალექების რაოდენობა (მმ).*

| აპრილი | მაისი | ივნისი | ივლისი | აგვისტო | სექტემბერი |
|---|---|---|---|---|---|
| 826.5 | 592.8 | 931 | 591.6 | 536.9 | 1216.2 |

როგორც ცხრილიდან იკვეთება, ქუთაისის აეროპორტში ყველაზე მშრალი თვე აგვისტოს თვეა, რადგან მოსული ნალექების რაოდენობის მინიმალურმა მნიშვნელობამ 591,6 მმ შეადგინა. აგვისტოს თვეში საშუალოდ მოსული წლიური ნალექების რაოდენობა 59,65 მმ-ია, რაც კიოპენის კრიტერიუმზე, 29 მმ-ზე მეტია. უნდა აღნიშნოს, რომ აგვისტოს თვეში მოსული ნალექების რაოდენობა მხოლოდ ორ წელიწადს, 2014

და 2017 წლებში იყო 29 მმ-ზე ნაკლები და შესაბამისად შეადგინა 11,2 მმ და 22,1 მმ. ივლისის თვეც ნაკლებ ნალექიანია ქუთაისის აეროპორტისთვის, აქედან გამომდინარე ჩავატარე ივლისის თვეში მოსული ნალექების რაოდენობის (მმ) ანალიზიც. ივლისის თვის საშუალო (ცხრაწლიანმა) ნალექების რაოდენობამ შეადგინა 65,73 მმ. მხოლოდ 2014 და 2015 წლებში იყო ნალექების რაოდენობა 29 მმ-ზე ნაკლები და შეადგენდა 21,7 და 12,8 მმ-ებს. უპრიანი იქნება თუ ამოსავალ კრიტერიუმად გამოვიყენებთ ჩვენს ხელთ არსებულ ცხრაწლიან საშუალო მნიშვნელობებს და არა ყოველწლიურს, რადგან ბოლო წლებში განვითარებული მზის ციკლური ხასიათის შეშფოთებები საწინდარი იყო კლიმატის გლობალური ცვლილებისა, რასაც ადგილი აქვს საქართველოშიც და რაც გამოიხატება ზოგადი არასტაბილურობით, ხან უხვნალექიანი და ხანდახან პირიქით უკიდურესად მშრალი თვეებით (იხ. მოდელი I).

**ჩემი აზრით, ჩატარებული ანალიზის საფუძველზე, ქუთაისის საერთაშორისო აეროპორტი შესაძლებელია მივაკუთნოთ სუბტროპიკულ ნალექიან (წვიმიანი) კლიმატურ ზონას - Cr.**

**ბათუმის ალექსანდრე ქართველის სახელობის საერთაშორისო აეროპორტი**

ბათუმის საერთაშორისო აეროპორტის კიოპენის კლიმატოლოგიური კლასიფიკაციის მიხედვით, კონკრეტული კლიმატური ზონის მიკუთვნებისთვის ჩავატარე წიგნში არსებული კლიმატოლოგიური მოდელების ანალიზი. თვალსაჩინოებისთვის გამოვიყენე კიოპენის კლიმატოლოგიური კლასიფიკატორის ცხრილის მოდერნიზებული ვერსია (*იხ. ცხრილი #5*)

***ცხრილი #5,*** *კიოპენის კლიმატოლოგიური კლასიფიკაციის ცხრილი (UGSB)*

| კლიმატური კლასი | კლიმატური ზონა | კრიტერიუმები |
|---|---|---|
| A | ტროპიკული კლიმატი | მთელი წლის განმავლობაში საშუალო თვიური ტემპერატურა მეტია 17 $^0$C-ზე |
| UGSB | | არა |
| ყინვის საზღვარი | | |
| C | სუბტროპიკული კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 8-12 თვის განმავლობაში |
| UGSB | | კი |
| D | ზომიერი კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 4-7 თვის განმავლობაში |
| UGSB | | |
| E | სუბარქტიკული კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 1-3 თვის განმავლობაში |
| UGSB | | |
| ტყის საფარის საზღვარი | | |
| F | პოლარული კლიმატი | არც ერთ თვეში საშუალო თვიური ტემპერატურა არ არის 9 $^0$C-ზე მეტი |
| UGSB | | არა |
| სიმშრალის საზღვარი | | |
| B | მშრალი კლიმატი | აორთქლება აჭარბებს ნალექებს |
| UGSB | | |

ბათუმის აეროპორტში საშუალო ტემპერატურის ანაზილის ჩასატარებლად გამოვიყენე მოდელი G, რომლის მიხედვით ნათლად ჩანს, რომ იანვარის, თებერვალის, მარტის, აპრილის და მაისის თვეებში საშუალო თვიური ტემპერატურები წლების მიხედვით ხშირად 17 $^0$C-ზე ნაკლებია, რაც გამორიცხავს ბათუმის აეროპორტის ტროპიკულ კლიმატურ ზონაზე მიკუთვნებას.

მოდელი G-ის ანალიზმა გვაჩვენა, რომ აპრილის, მაისის, ივნისის, ივლისის, აგვისტოს, სექტებრის და ოქტომბრის, ანუ 7 (შვიდი) თვის განმავლობაში, 2010-2019 წლის დაკვირვებების საფუძველზე ჰაერის

საშუალო ტემპერტურა ყოველთვის 9 $^0$C-ზე მეტია. მხოლოდ 2011 წლის ნოემბრის თვეში, ჰაერის საშუალო ტემპერატურამ შეადგინა 7, 39 $^0$C-ი. დანარჩენ წლებში (2010, 2012-2019) ნოემბრის თვის საშუალო ტემპერატურა ყოველთვის 9 $^0$C-ზე მეტია. ნოემბრის თვის ათწლიანი მონაცემების გასაშუალოებით, ჰაერის საშუალო ტემპერატურამ შეადგენა 12, 64 $^0$C. მოცემულ გამონაკლისს თუ დავუშვებთ და ჩავთვლით, რომ ბათუმის საერთაშორისო აეროპორტში ნოემბრის თვის საშუალო ტემპერატურაც 9 $^0$C-ზე მეტია, მაშინ ვიღებთ რომ 8 თვის განმავლობაში ბათუმის საერთაშორისო აერპორტში ჰაერის საშუალო ტემტერატურა 9 $^0$C-ზე მეტია, რაც აუცილებელი (და არა საკმარისი) წინაპირობაა, იმისათვის რომ კიოპენის კლიმატოლოგიური კლასიფიკატორის მიხედვით, ბათუმის საერთაშორისო აეროპორტი მივაკუთვნოთ სუბტროპიკულ კლიმატოლოგიურ ზონას. მინდა აღვნიშნო, რომ მსგავსი ვითარებაა მარტის თვეშიც, მხოლოდ 2011 წელს ჰაერის საშუალო ტემპერატურამ შეადგინა 8, 98 $^0$C-ი, 2012 წელს 5, 34 $^0$C-ი და 2019 წელს 8, 44$^0$C-ი . დანარჩენ წლებში (2010, 2013-2018) მარტის თვის ჰაერის საშუალო ტემპერატურა მეტია 9 $^0$C-ზე. მარტის თვის, ცხრა წლიანი ემპირიული მონაცემების გასაშუალოებით ჰაერის საშუალო ტემპერატურა შეადგნეს 9,94 $^0$C-ს. მარტის თვის მიჩნევა 9 $^0$C -ზე მეტი საშუალო ტემპერატურის მქონე თვედ, კიდევ დამატებით აკმაყოფილებს კიოპენის კრიტერიუმს. 9 $^0$C -ზე მეტი საშუალო ტემპერატურის მქონე თვეებად, შეიძლება ჩავთვალოთ მარტიდან დაწყებული ნოემბრის ჩათვლით თვეები ( 9 თვე), ხოლო კიოპენ-ტრავერტის კლასიფიკაციის მიხედვით 8 თვეც კი საკმარისია იმისათვის, რომ ბათუმის საერთაშორისო აეროპორტი მივაკუთვნოთ სუბტროპიკულ კლიმატურ ზონას (იხ. ცხრილი #5).

კიოპენის კრიტერიემების მიხედვით გაანალიზებულ იქნა ცხრა წლიანი მონაცემების საფუძველზე აპრილი - სექტემბრის თვეში მოსული ნალექების რაოდენობა. მიღებული შედეგები ავსახე ცხრილ #6-ში.

***ცხრილი #6,*** *ბათუმის საერთაშორისო აეროპორტში თვეების მიხედვით დაჯგუფებული, ცხრა (2011-2019) წლის განმავლობაში მოსული ნალექების რაოდენობა (მმ).*

| აპრილი | მაისი | ივნისი | ივლისი | აგვისტო | სექტემბერი |
|---|---|---|---|---|---|
| 771.8 | 659.8 | 1682.6 | 1254 | 1482 | 2596 |

**როგორც ცხრილიდან ჩანს ყველაზე მშრალი თვე მაისის თვეა, რომელშიც მოსული ნალექების რაოდენობის მინიმალურმა მნიშვნელობამ 659,8 მმ შეადგინა. ამ თვეში საშუალოდ მოსული წლიური (ცხრა წლის საშუალო) ნალექების რაოდენობაა 73,31 მმ. მაისის თვეში მოსული ნალექების რაოდენობა ყოველთვის 29 მმ-ზე მეტია, რაც აკმაყოფიულებს კიოპენის კლასიფიკაციის მოთხოვნებს და უკვე საკმარისი წინაპირობაა, რომ ბათუმის საერთაშორისო აეროპორტი მივაკუთნოთ სუბტროპიკული ნალექიანი (წვიმიანი) კლიმატურ ზონას - Cr.**

### მესტიის თამარ მეფის სახელობის აეროპორტი

ისევე როგორც თბილისის, ბათუმის და ქუთაისის შემთხევვაში, მესტიის აეროპორტის კლიმატურ ზონის განსაზღვრა ვაწარმოე კიოპენის კლიმატოლოგიური კრიტერიუმების მიხედვით.

შედეგები ავსახე ცხრილ N6-ში. როგორც ცხრილი N6-დან ჩანს, თამარ მეფის სახელობის მესტიის აეროპორტში სამი წლის (2017 -2019 წლების) ანალიზის შედეგების მიხედვით, 5 თვის განმავლობაში, მაისიდან სექტემბრის ჩათვლით, ყოველი თვის საშუალო ტემპერატურა 9$^0$C-ზე მეტია. რაც აუცილებელი პირობაა, რომ მესტიის აეროპორტი მივაკუთნოთ ზომიერ კლიმატურ ზონას (ანალიზის ჩასატარებლად გამოვიყენე მოდელი G).

*ცხრილი #6, კიოპენის კლიმატოლოგიური კლასიფიკაციის ცხრილი (UGMS)*

| კლიმატური კლასი | კლიმატური ზონა | კრიტერიუმები |
|---|---|---|
| A | ტროპიკული კლიმატი | მთელი წლის განმავლობაში საშუალო თვიური ტემპერატურა მეტია 17 $^0$C-ზე. |
| UGMS | | არა |
| ყინვის საზღვარი | | |
| C | სუბტროპიკული კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 8-12 თვის განმავლობაში |
| UGMS | | არა |
| D | ზომიერი კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 4-7 თვის განმავლობაში |
| UGMS | | კი |
| E | სუბარქტიკული კლიმატი | საშუალო თვიური ტემპერატურა მეტია 9 $^0$C-ზე, 1-3 თვის განმავლობაში |
| UGMS | | კი |
| ტყის საფარის საზღვარი | | |
| F | პოლარული კლიმატი | არც ერთ თვეში საშუალო თვიური ტემპერატურა არ არის 9 $^0$C-ზე მეტი |
| UGMS | | არა |
| სიმშრალის საზღვარი | | |
| B | მშრალი კლიმატი | აორთქლება აჭარბებს ნალექებს |
| UGMS | | |

ზომიერი კლიმატური ზონა თავისთავად იყოფა ორ ქვეკლასად, ზომიერ ზღვის და ზომიერ კონტინენტურ კლიმატურ ზონად. მესტიის აეროპორტის, ამ ორთაგან ერთ-ერთ კლიმატურ ზონაზე მისაკუთვნებლად დამატებით ჩავატარე მოდელი G-ს ანალიზი. მესტიის აეროპორტისთვის წლის ყველაზე ცივ თვეს წარმოადგენს იანვრის თვე, როცა ჰაერის ტემპერატურის აბსოლუტური მნიშვნელობა მინიმალურს აღწევს, კერძოდ ამ თვეში, ტემპერატურის სამწლიანმა საშუალო მაჩვენებელმა შეადგინა -3,25$^0$C-ი. ასევე მნიშვნელოვანია, რომ ყოველი წლის იანვრის თვის საშუალო აბსოლუტური მაჩვენებლებიც ნაკლებია 0$^0$C-ზე და შეადგენს მინიმალურ მნიშვნელობებს სხვა თვეებთან შედარებით, კერძოდ 2017 წელს--3,97$^0$C-ს, 2018 წელს -2,30$^0$C-ს, 2019 წელი -3,49$^0$C-ს (იხ. მოდელი G).

კიოპენეს კლიმატოლოგიური კრიტერიუმის მიხედვით, თუ წლის ყველაზე ცივი თვის საშუალო ტემპერატურა ნაკლებია 0 $^0$C-ზე და ამავე დროს წლის განმავლობაში 4-7 თვის ტემპერატურის საშუალო აბსოლუტური მაჩვენებლები მეტია 9$^0$C-ზე, მაშინ იგი მიეკუთვნება DC - ზომიერ კონტინენტურ კლიმატს. მესტიის აეროდრომისთვის როგორც ზემოთ ავღნიშნეთ ყოველი წლის ხუთი თვეში ჰაერის აბსოლიტური ტემპერატურა მეტია 9$^0$C-ზე, ხოლო ყველაზე ცივი თვის (იანვრის) საშუალო ტემპერატურა კი ნაკლებია 0$^0$C-ზე, რაც საკმარისი პირობაა, რომ მესტიის **აეროპორტი მივაკუთვნოთ ზომიერ კონტინენტურ კლიმატურ ზონას - DC.**

*ავტორი: ფიზიკის მეცნიერებათა დოქტორი,*

*ბადრი ჯიჯელავა*

*15.09.2020 წელი*

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## General Climatology, Using Koppen - Trewartha Climate Classification Method for Defining Climate Zones of Georgia's Airports

There are number of methods that determine climatic zones. Scientists, who analyze climate zones, offer individual methods for identification and determination of climate zones. Ultimately, all of them establish general overview of dominated meteorological conditions regarding moisture, temperature, winds, weather phenomena, precipitation, etc. according to the regions.

Boris Alisov's method of climate zones and regions classification is very interesting in climatology. He offers the application of general circulation aspect of the atmosphere for identification of climate zones and regions. He underlines seven major climate zones based on the general circulation of the atmosphere.

1. **Equatorial**

**2. Two Tropical**

**3. Two Moderate**

**4. Two Polar**

The separation of two tropical, two moderate and two polar zones, apart from the equatorial zone implies the existence of the separate tropical, moderate and polar zones in the southern and northern hemispheres of the earth. The researcher underlines climate zones congruent with the prevailing air masses supporting the formation of climate across the regions throughout the year. Within the umbrella term air masses he juxtaposes equatorial, tropical, moderate, arctic (in the Northern Hemisphere) and Antarctic (in the Southern Hemisphere) air masses.

Apart from the major climate zones exist six transitional zones, three in each hemisphere of the earth. The variability of the dominant air masses contributes existence of transitional climate zones throughout the seasons.

1. **Two Subequatorial zones or Tropical monsoon zones**

**2. Two Subtropical zones**

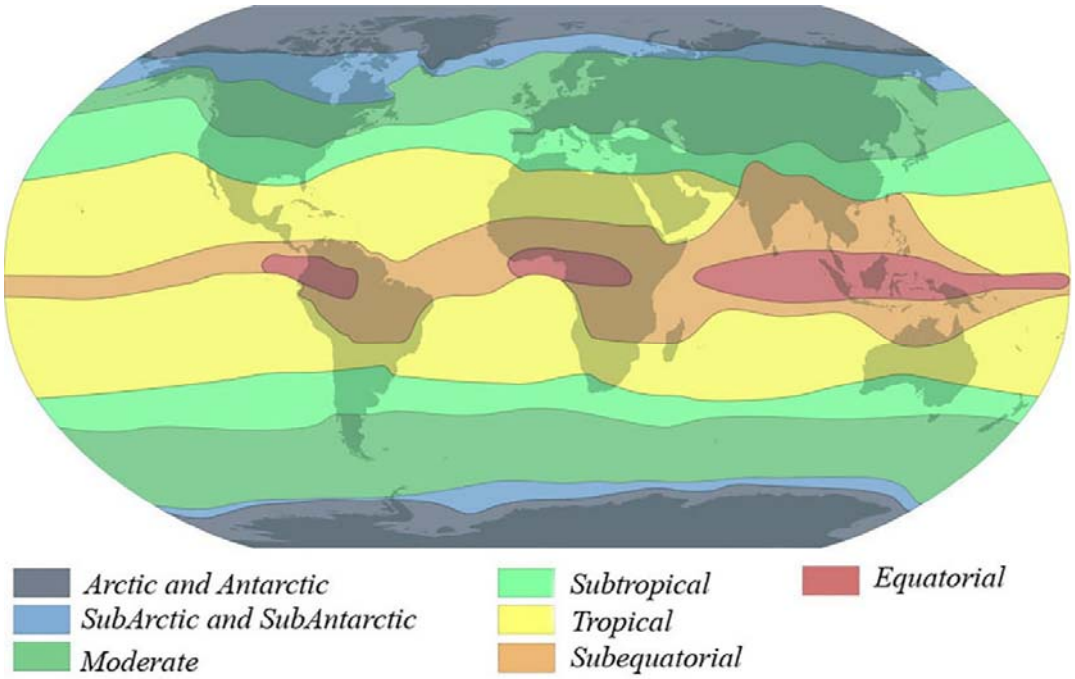
**3. Two Subarctic and Sub-antarctic zones.**

The characteristics of **Subequatorial zones** reveals that equatorial air masses influence formation of climate in summer, as for the climate formation in winter, here dominate tropical air masses.

**Subtropical zone** is featured with tropical air masses and moderate air masses for summer and winter climate formation, respectively.

As for the **Subarctic and Sub-antarctic zones (boreal climate)** climate formation depends on tropical air masses and Arctic or Antarctic air masses in summer and winter respectively.

***Picture # 1, Climate classification by Boris Alisov[5].***




Zones' boundaries are determined through the average location of climate fronts. For instance, Tropical zone is placed between the summer internal tropical convergence zone and winter Polar front layer. This represents the contributory factor of presenting tropical air masses as the major air mass in this zone.

Subtropical zone is located between the winter and summer polar front layers, so Polar air masses influence this region in winter and Tropical one in summer. Other zones' boundaries are also defined similarly.

Four types of climate zones are determined for each zone.

1. **Highland**
2. **The oceanic (marine)**
3. **The West Coastal Climate**
4. **The East Coastal Climate**

[5] *The picture is derived and developed from the web site* https://www.google.com/search?q=%D0%90%D0%BB%D0%B8%D1%81%D0%BE%D0%B2+%D0%BA%D0%BB%D0%B8%D0%BC%D0%B0%D1%82%D0%BE%D0%BB%D0%BE%D0%B3%D0%B8%D1%8F&source=lnms&tbm=isch&sa=X&ved=0ahUKEwjBgqa53_PbAhXQyKQKHVQBAWAQ_AUICigB&biw=1920&bih=974#imgrc=UdATT8AIyhNJhM:

The features of the Highland and Oceanic climate are provided through the varieties of physical properties bellow the air masses. In the first case, Continental air masses are created and in the second case Sea air masses. The West Coastal climate and the East coastal climate discrepancies are due to the specificity of the atmosphere's general circulation, as well as the peculiarities of the ocean streams.

The world's largest positive radiation balance conditions provoke formation of Equatorial and Tropical air masses. Therefore, in contrast to other air masses Equatorial and Tropical air masses are characterized with higher temperatures. The Earth radiation balance is less varied in tropics throughout the year; that is why annual amplitude temperature variability is low. The Sun reaches the zenith twice over the largest part of the tropical zone (during spring and autumn equinoxes), since the sun's height is changed slightly through the year there are no drastically changes with respect to the temperature. Depending on these phenomena, dry and precipitation periods are singled out in tropics rather than winter and summer periods.

Koppen represented interesting method of climate zone classification. Koppen method is known as Koppen - Trewartha climate classification method. By means of this method, the climate of the earth is divided into six classes based on temperature and humidity criteria. The following letters (A, C, D, E, F, B) are assigned to each class. A, C, D, E,F class climatic zones are grouped by the temperature, namely the reduction of its average rate from the equator to the poles. As for the sixth, B class, it implies moisture level, as well as dry climate class. Climate zones classification criteria after Koppen are provided bellow.

*Table#1, Koppen - Trewartha climate class classification chart.*

| *Cclimate classes.* | *Climate zones* | *Criteria* |
|---|---|---|
| A | Tropical Climate | Average monthly temperature exceeds 17 $^0$C through the year. |
| The Frost level (boundary) | | |
| C | Subtropical Climate | Average monthly temperature exceeds 9 $^0$C, within the 8-12 month. |
| D | Temperate Climate | Average monthly temperature exceeds 9 $^0$C , within the 4-7 month. |
| E | Subarctic Climate | Average monthly temperature exceeds 9 $^0$C, within the 1-3 month. |
| The Forest cover level (boundary) | | |
| F | Polar Climate | Annual Temperature is no more than 9 $^0$C. |
| Dryness level (boundary) | | |
| B | Dry Climate | Evaporation exceeds precipitation |

As the *Table# 1* reveals, the Frost level (Boundary) is between climate classes A and C, Forest cover level (boundary) is allotted between E and F climate classes, as for the dryness level (boundary), it is between climate class B and all the other classes .

**B-Dry (arid and semiarid) Climate**

In oprder to assign any given region to the dry climate class, average number of annual precipitation should be compared to the **dryness level (DL)** that is determined using the following formula.

**DL= 20(t- 10 $^0$C + 0,3*SPP); (1)**

In this formula, "t" represents average annual temperature ($^0$C), **SPP is Summer Period Precipitation-the percentage of total summer precipitation with regard the annual precipitation**. Total summer precipitation is in summer and spring months namely in April - September and in October-March in Northern Hemisphere and Southern Hemisphere, respectively.

If the amount of annual precipitation for the particular region is no more than the dryness **R<DL/2 (2)** this type of climate is referred to as "**Arid: Desert Climate**" and the following symbol **BW** is assigned to it. **Arid: Desert climate criteria is calculated by the following formula.**

**ADCC = DL/2 = 10(t- 10$^0$ + 0,3*SPP) mm; (3)**

If annual precipitation (mm) R is less than dryness level (**DL**) and more than the Arid: Desert climate criteria (**ADCC**) the climate of those regions is labeled as **BS** symbol and is referred to as Semi-arid or steppe climate .

**ADCC**<R<**DL; (4)**

Contrast with **BS, BW** Arid: Desert climate is characterized by lack of precipitation that is vital for forest cover formation. B climate underlines "Sea desert" **BM** climate, featured with high humidity and low precipitation.

**A Tropical climate** involves four climate sub-classes. Discrepancy amongst the four climate sub-classes is represented through rainy seasons. For instance, **Ar** – Tropical rainy climate, **Am** - Tropical monsoon climate, **Aw** - Tropical climate with dry winters and rainy summers, **As** - Tropical climate with dry summers and rainy winters.

If precipitation of the **A climate** in a month is no less than 60mm this month is labeled as a rainy month. A region is assigned to the Tropical climate **(Ar)** if the annual precipitation lasts more than nine months (precipitation in a month is no less than 60mm). The feature of **Am**- Tropical monsoon climate precipitation period is less than ten month in a year, and annual precipitation **R>=(100 – $r_n$)*25;**

**$r_n$** is average monthly precipitation in the driest month. The way **Aw** and **As** climate zones are labeled depicts their nature.

Subtropical climate C- includes three sub classes.

***Cr* - Subtropical (rainy) climate;**

*Cw- Subtropical climate with* rainy summer and dry winters

*Cs-Subtropical climate with rainy winters and dry summers (Mediterranean Sea Coast)*

The region is allotted to the Cr subtropical climate where the difference between the amounts of percentage of the rainest and the drest months, is lower than the precipitation necessary for rainy summer and rainy winter class; or the amount of precipitation, of the driest month of the summer, is more than 29mm in summer (April-September).

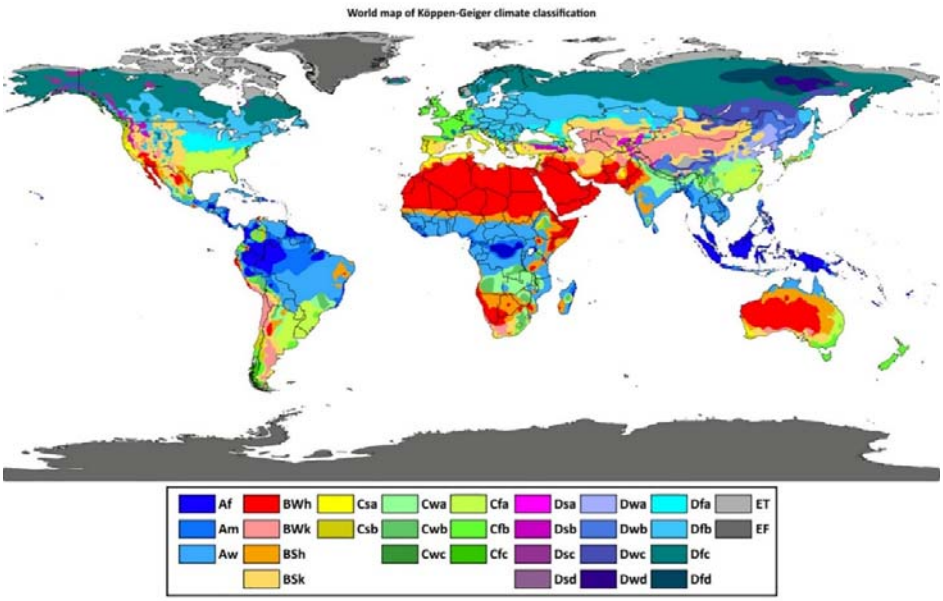
**Cs**-Subtropical climate with rainy winters and dry summers is characterized with less than 890 mm annual precipitation and precipitation should be at least three times more in winter than it is in summer. If in the region precipitation is ten times more in summer than it is in winter it is assigned to **Cw** climate zone. So, in **A, b**, and **C** climate classes precipitation and its distribution by months is vital.

**D Temperate climate** is divided into two types, namely **DO** Temperate Sea climate and **DC** Temperate Continental climate. The Sea and the Continental climate separation occurs in accordance with the average temperature of the coldest month of the year. In Temperate Sea climate zone the average temperature should be above 0 $^0$C or equal to it, thus in the Temperate Continental climate zone - below 0$^0$ C.

**E Subarctic climate** is also divided into two types. Subarctic Sea climate **EO** and Subarctic continental climate **EC**, with more than -10 $^0$C temperature for the coldest month, and with less than -10$^0$C temperature for the coldest month, respectively. It is worth to note here that A, C, D and E climate zones are also labeled as "Forest climate", since these climate zones are characterized with necessary for forest growth and evolution.

**F- Polar Climate** includes the level of the forest cover according to the moderate latitude direction, which coinsides with 10 $^0$C isotherm**.** The polar climate is divided into two classes according to the average temperature of the warmest month of the year. If the temperature varies between 0 $^0$C and 10 $^0$C it is assigned to the **FT** Tundra Climate, and if the average monthly temperature is less than 0 $^0$C through the whole year it is allotted to the Arctic (icy) climate zone - **FI.**

*Picture #2 – Vladimer Koppen Climate classification*[6]




[6]Peel, M.C. and Finlayson, B.L. and McMahon, T.A. (2007), University of Melbourne, Vectorization by Ali Zifan;

Ultimately, Koppen - Trewartha climate zones classification unifies 16 climatological zones.

**Ar - Tropical (rainy/ precipitation) climate**

**Am - Tropical monsoon (rainy/ precipitation) climate**

**Aw - Tropical climate with rainy summer**

**As - Tropical climate with rainy winters**

**BS- Semi-arid or Steppe climate**

**BW-Arid: Desert climate**

**BM- „Sea Desert" Climate**

**Cr - Subtropical (rainy/ precipitation) climate**

**Cw- Subtropical climate with rainy summer**

**Cs- Subtropical climate with rainy winters**

**DO- Temperate Sea climate**

**DC- Temperate Continental climate**

**EO- Subarctic Sea climate**

**EC- Subarctic Continental climate**

**FT- Tundra climate**

**FI- Arctic (icy) climate**

The whole earth was divided into climatic zones in agreement with the Koppen - Trewartha climate classification. (Picture #2)

It is worth to mention that Lev Berg's significant contribution regarding to the development of climatology. He classifies two climate types.

1. **The Lowland climate**
2. **High Plateau climate**

L.Berg's climate classification is based on Highland landscape-geographical zones. He claims that climate is a component that defines geographical landscapes. He also depicts that climate zones coincides with geographical landscapes, however, he notes of existence of exceptions in his research as well. The researcher used quantitative criteria of V. Koppen and other researchers for climate zones differentiation in his research, as well as landscapes features such as local flora and the earth's soil surface conditions. His research interests covers Limnology as well. He designed Limnology maps. The definition itself came into sight in 19th century. Swiss scientist F.Forel[7] founded scientific research filed of Limnology that involves lakes, rivers, reservoirs and other similar places; ultimately, it is based on the following scientific research methods hydrology, hydro physics, hydrochemistry, geomorphology and other scientific researches. It is worth to note that modern understanding of this field mainly includes appropriate sites of hydro resources regarding the study of Bio-productivity.

L.Berg's climate classification reveals two climate classes of "Low-land climate", namely

**1. Oceanic climate**

**2. Highland climate**

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[7] **Warwick F. VINCENT and Carinne BERTOLA, „François Alphonse FOREL and the oceanography of lakes", scientific Jornal "ARCHIVES DES SCIENCES", Year 2012, pp pp 51-64;**

Low-land climate points out 11 climate zones.

**Tundra Climate** - the researcher uses the following quantitative criteria in order to determine this category of climate. 10-12 $^0$C is the average temperature of the hottest month, but no less than $0^0$ C and relative humidity is more than 70% during the 13-hours. The tundra climate zone consists of two subclasses.

1. **The Northern Hemisphere, Tundra, with immense annual amplitude of temperature -Highland climate.**
2. **The Southern hemisphere, Tundra, with low annual amplitude of temperature-Oceanic climate.**

**Taiga climate**- temperature in July is above 10 $^0$C, but no more than 20 $^0$C, annual temperature amplitude is no more than 10 $^0$C, annual precipitation is 300-600 mm, and relative humidity for the warmest month represents 50-70%. Taiga climate differentiates two sub groups as well.

1. **The West's cloudy and snowy winters**
2. **East Siberia, dry and very cold winters**

**Forest's Moderate climate zone (oak tree climate)** - the average temperatures of four months is more than 10 $^0$C during warm period of the year, nonetheless no more than 22 $^0$C. It is characterized with rainy summer, the features of these zones are revealed through the deciduous forest cover, mainly oak trees are found in this climate zone.

**Moderate Monsoon latitude climate**- this climate zone also is represented by oak tree landscape juxt like "oak tree" climate. The cold, dry winters, rainy summers and seasonal wind directions' variability dominate here.

**Steppe climate**- This category includes two subgroup featured with hot summer, the maximum amount of precipitation take place in summer.

1. **Steppes climate with cold winters (Temperate steppes belt);**
2. **Steppes climate with warm winters (subtropical and tropical steppes);**

**Steppe climate, cold winters (Temperate steppes belt)-** characteristics of this zone reflects the main, quantitative criteria. The average temperature of each month of summer is more than 20 $^0$C and below 23,5 $^0$C. The relative humidity varies between 35-45% range in a day during 13 hours in July and August as well, and as for the annual precipitation it is 200-450mm.

**Mediterranean climate** -Mediterranean climate is the feature of -Subtropical climate, with hot and dry summer, and average temperature between to 23 $^0$C -28 $^0$C. Thus, winter is warm and humid. The coldest month temperature is more than 0 $^0$C; Precipitation is the characteristic of fall, winter, and spring.

**Subtropical forest climate**- in this case the coldest month average temperature is above 2 $^0$C; summer is hot with heavy rainfall. Total annual precipitation is more than **1000** mm. Ultimately, summer precipitation indicator is significant.

**Inland terrain desert climate (Moderate belt)-** a small amount of rainfall is significant for all season (equals to or is below 300mm) especially in summer. The summer is dry, sometimes even without precipitation. The hottest month average temperature is $25^0$ - 32 $^0$C. As for the winter, it is cold and the coldest month average temperature is less than 2 $^0$C. It worth mentioning that snow is rare phenomena.

**Subtropical Desert Climate –** For this particular climate zone, low precipitation is significant. Summer is hot without precipitation. Humidity is not sufficient for soil's plants vegetation in winter

in spite of the maximum precipitation. Winter is either hot or warm. The coldest month average temperature is no less than $10^0$ C in winter. The subtropical desert climate is featured with a large daily amplitude of temperature.

**Savanna Climate**- Tropical forests climate- in Tropical forests climate the coldest month average temperature is no less than 18 $^0$C. Heavy precipitations are significant, nonetheless no more than 2000 – 2500mm in a year. Some regions placed in this climate zone are characterized with monsoon, monsoon variations provoke tropical cyclone formation.

**Humid Tropical forests climate**- heavy precipitation is notable, no less than 1500mm in a year. Average temperature for the coldest month is no less then 18 $^0$C. Average annual amplitude of temperature is low between $1^0$-6 $^0$C. There are two periods of around the spring and fall equinoxes, when the maximum precipitation takes place. Dry period is short.

**High Plateau climate**- is considered to be horizontal surfaces (plateaus) at an absolute height no more than 1000 meters. L. Berg states that high plateau and lowlands climate are identical. As he depicts the same climatological zones are at different heights that contributes to the difference in meteorological parameters formation according to the regional climate features. In contrast with Lowland climate, High plateau climate is distinguished with high temperature amplitude.

L. Berg underlines following climate classes of High plateau climate:

**Polar icy plateau climate**- constant icy climate, the temperature in this climate zones is always less than **0 $^0$C.**

**High steppe and semi desert Temperate climate;**

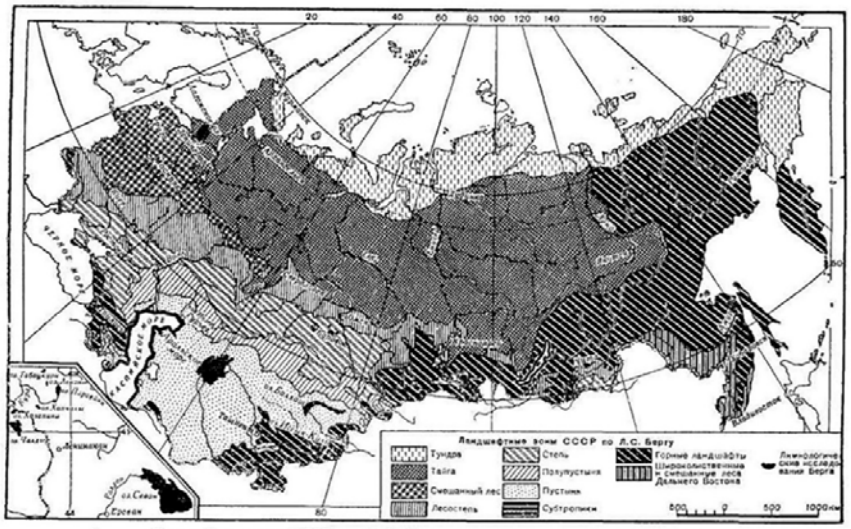
**Temperate belt desert climate;**

**Tibet climate;**

**Subtropical Steppes - Iran climate** is the climate with hot summer and moderate winter. Annual precipitation is low and varies between 130 to 250 mm. Precipitation can be observed in winter and in spring, as for the summer it is dry.

**Tropical Plateau, High Savanna climate-** temperature amplitude is low, maximum amount of precipitation occur in the second half of summer, short winter and spring periods are dry.

***Picture#3 L. Berge's geographical-landscape climatic zones and Limnology studies[8].***




Ландшафтные зоны СССР по Л. С. Бергу и его лимнологические исследования.

[8] The picture derived from the web-site
http://big-archive.ru/geography/domestic_physical_geographers/81.php

Anton Kaminski was the researcher who made significant contribution to the development of climatology as a scientific filed. A. Kaminski discusses region climatology features with respect to wind, temperature and relative humidity. He highlights prevailing winds, as well as any other wind direction in his researches for each region. He also discusses recurrence of the mentioned phenomena and its correlation with relative humidity and temperature. The method itself is very interesting, Kaminski founds out the correlation between temperature variability and maximum humidity regarding wind directions. While studying air humidity the researcher considers absolute, relative humidity and saturation deficit of atmosphere. The scientist prefers relative humidity while analyzing climate features. The relative humidity and temperature interaction is pointed out in his charts, that allows him to define absolute humidity for any given region and its correlation to the winds. Anton Kaminski reflected correlation of meteorological elements and wind speed with respect to the regional pressure variability. He depicts that more the pressure variation, the more chance for formation of higher pressure gradient at the same time. He relies on the 5 years' statistical data (1891-1895) which reflects the link between the wind speed and high fluctuation of pressure (pressure instability) in accordance with the certain time period. He pointed out correlations like this for each month of the year. For instance, he found out that maximum pressure fluctuation occurs at the end of the fall and winter, and the maximum average wind speed can be observed in the same period. He came across with the following results through the data provided by meteorological station located in Russia.

B. Alisov's climate zone differentiation is based on the general circulation of the atmosphere. Since Georgia realively small, atmospheric circulations of the synoptic scale are identical all around the country. Nevertheless, Georgia's diversity of the orography, unity of marine and continental air masses, and mountain-valley complexes contribut to the formation of radically different local climate conditions. Climate processes on the earth create local climate in different geographical conditions. The local climate itself depends on the particular latitude, region orography, mainland etc. The case of Georgia reveals that climate zones' classification by Boris Alisov is often violated due to non zonal factors. From my point of view, Boris Alisov's method is not capable to classify Georgian climate diversity completely, that is contributed by the characteristics of local orography.

L. Berg's climate classification, which is based on landscape-geographical specification, is customized for other regions landscape features but Georgia. As it was already mentioned the scientist uses quantitative criteria of meteo-elements like Koppen regarding meteorological aspects. A case of Georgia requires additional scientific studies with respect to landscapes if we use Berg's climate classification; nonetheless, it needs extra time, as well as human and financial resources and is considered irrelevant within the context of this particular research. The scope of my research is: aviation meteorology, climatology and assignment of Georgian aerodromes to the specific climate zones according tho the meteorological conditions, rather than Georgia's regions differentiation according to the climate zones.

A. Kaminski's research methods and fields are very interesting and expressive. From my point of view, the studies with respect to the meteorological elements' correlation in time provides vivid information for readers and creates possibility to obtain interesting results through the correlation of mathematical formalization. Various meteo-elements' correlations are provided in this book, for instance correlations between average temperature, relative humidity and dew point; Total precipitation and average temperature etc. Nevertheless, this part of the research goes beyond the aim of the study.

In conclusion, Georgia's airports (Tbilisi, Kutaisi, Batumi) are assigned to precise climate zones according to **Koppen - Trewartha** climate zone classification. Furthermore, this method is based on

**specific criteria of meteorological elements that is also presented in this book. Criteria for meteorological elements used for classification of Tbilisi, Kutaisi and Batumi International airports is provided below according to Koppen method.**

## Shota-Rustaveli Tbilisi International Airport

Tbilisi International Airport climate data analysis in accordance with Koppen's climate classification (Table #1).

*Tbale #1 Koppen's climate classification chart (UGTB)*

| Climate class | Climate zone | Criteria |
|---|---|---|
| A | Tropical climate | Average monthly temperature exceeds 17 $^0$C through the year |
| UGTB | | No |
| The Frost level (boundary) | | |
| C | Subtropical climate | Average monthly temperature exceeds 9 $^0$C, within the 8-12 month. |
| UGTB | | No |
| D | Temperate climate | Average monthly temperature exceeds 9 $^0$C , within the 4-7 month |
| UGTB | | Yes |
| E | Subarctic Climate | Average monthly temperature exceeds 9 $^0$C, within the 1-3 month. |
| UGTB | | Yes |
| The Forest cover level(boundary) | | |
| F | Polar Climate | Annual Temperature is no more than 9 $^0$C. |
| UGTB | | No |
| Dryness level (boundary) | | |
| B | Dry Climate | Evaporation exceeds precipitation |
| UGTB | | |

The analysis of G-model revealed that during 7 months namely, in April, May, Jun, July, August, September and October the average temperature is always more than **9 $^0$C** in Tbilisi International Airport (this data is based on 2010-2018 observation), which is mandatory, but not sufficient condition to assign Tbilisi International Airport to the Moderate climate zone according to Koppen's climate classification.

Temperate climate zone is divided into two parts, Temperate Sea climate and Temperate Continental climate. Additional analysis should be conducted in order to assign Tbilisi International Airport to one of the two climate zones. According to the with Koppen Classification method, if the coldest month's average temperature in a year is more than, or equals to **0 $^0$C** the region is assigned to **DO- Temperate Marine climate**, and if it is less than 0 $^0$C- it belongs to **Temperate Continental climate**. In accordance with the analysis (the model G) in December, January and February average air temperature was 4,25 $^0$C, 2,98 $^0$C, 4,62 $^0$C throughout the ten years respectively. It is worth to note that the lowest temperatures were recorded in February throughout the climate observation amongst those three months. Nine years observation revealed that Absolute minimum temperature in February 2014 was as low as -14 $^0$C. As for the month's average temperature, it was -0,59 $^0$C in February 2012. In other years, between 2010-2019 the monthly average temperature was always

more than 0 ⁰C. The average temperature in February was 4,62 ⁰C which is more than it was in January (2,98 ⁰C) and December (4,25 ⁰C) according to the nine years' observation data. Sespite of, February being the "**Coldest Month**". The same (Ten Years observations ) data reveals that average temperatures in January and December were above 0 ⁰C.

**To sum up, according to the empirical data analysis and Koppen climate criteria (Table#2) Tbilisi International Airport is assigned to Temperate Sea climate zone- DO.**

**David The Builder Kutaisi International Airport**

based on ten years of observation data, meteo-elements analysis was conducted in accordance to the Koppen climate classification in order to identify Kutaisi International Airport's climate zone.

Firstly, I determined the number of months with average temperatures more than 9 ⁰C. The outcomes were made from G-model considering the requirements of Koppen climate classification. The empirical data was elicited from the research conducted within the ten years. The research revealed that average monthly temperature was always more than 9 ⁰C throughout the 7 months (April –October). The average temperature in March 2012 was 4,29 ⁰C, however, March's average temperature was always more than 9 ⁰C in other years. As the whole 2010-2019 ten years research reflects average temperature in March was 10,01 ⁰C. I think it is also possible to conclude that average temperature in March was more than 9 ⁰C. We face the similar situation in November. Average monthly temperature in 2011 was 6,06 ⁰C, and as for the other years during 2010-2019 average temperatures were always above 9 ⁰C. According to the complete ten years data, the average temperature of November is more than 9 ⁰C, namely 11,19 ⁰C.

Thus, we can assume, that the average monthly temperatures were more than 9⁰C all through nine months (March- November), based on the climate analysis conducted in Kutaisi International Airport. The results are enough to assign Kutaisi International Airport to Subtropical climate zone (Table # 2).

*Tbale #2 Kyopen's climate classification chart (UGKO)*

| Climate class | Climate zone | Criteria |
|---|---|---|
| A | Tropical climate | Average monthly temperature exceeds 17 ⁰C through the year |
| UGKO | | No |
| The Frost level (boundary) | | |
| C | Subtropical climate | Average monthly temperature exceeds 9 ⁰C, within the 8-12 month. |
| UGKO | | Yes |
| D | Temperate climate | Average monthly temperature exceeds 9 ⁰C , within the 4-7 month |
| UGKO | | Yes |
| E | Subarctic Climate | Average monthly temperature exceeds 9 ⁰C, within the 1-3 month. |
| UGKO | | Yes |
| The Forest cover level (boundary) | | |
| F | Polar Climate | Annual Temperature is no more than 9 ⁰C. |
| UGKO | | No |
| Dryness level (boundary) | | |

| | | |
|---|---|---|
| B | Dry Climate | Evaporation exceeds precipitation |
| UGKO | | |

Nonetheless, it is necessary to conduct additional analysis in order to assign Kutaisi International Airport to the subtype of Subtropical zone that is described above, namely considering total amount of precipitation of the driest month of summer (in accordance with Koppen summer months are April-September).

**It should be noted that the analysis was conducted for all three subtypes of Subtropical zones, and Kutaisi International Airport can't be allotted to either of the following subtypes of subtropical zones Cw( Subtropical climate with rainy summer and dry winter) and Cs( Subtropical climate with rainy winters and dry summer) (Table#3).**

*Tbale# 3 Kutaisi International Airport, precipitations (mm) by months and seasons throughout the nine years (2010-2019).*

| | | | |
|---|---|---|---|
| December | 1308.7 | | |
| January | 1183.4 | | |
| February | 927.1 | Winter | 3419,2 |
| March | 1262.5 | | |
| April | 826.5 | | |
| May | 592.8 | Spring | 2681,8 |
| June | 931 | | |
| July | 591.6 | | |
| August | 536.9 | Summer | 2059,5 |
| September | 1216.2 | | |
| October | 1100.8 | | |
| November | 1137.6 | Automn | 3454,6 |

Accordance with Koppen climate classification Cs climate zone is featured with less than 890mm amount of precipitation. In agreement with model N the total amount of precipitation is always more than 890mm in Kutaisi International airport and varies from 1000mm to 1500mm. Cw climate zone characteristics reflects that the total amount of precipitation in summer should be 10 times more than that in winte, which is not correct for Kutaisi International airport. The actual climate data reveals that Autumn and winter have the highest amounts of precipitation among all seasons (Table #3).

The analysis was conducted for Subtropical climate zone Cr (Subtropical rainy climate) as well.

*Tbale #4 Kutaisi International Airport: precipitations grouped by months throughout the nine years (2011-2019)*

| April | May | June | July | August | September |
|---|---|---|---|---|---|
| 826.5 | 592.8 | 931 | 591.6 | 536.9 | 1216.2 |

As the Table**#4** reveals, the driest month is August in Kutaisi International Airport, since the minimum amount of precipitation is 591,6 mm. Average amount of annual precipitation (all through nine years) is 59.65 mm in this month, more than 29 mm, which represents Koppen's criteria. It should be noted that the amount of precipitation in August 2014 and 2017 was less than 29 mm, 11.2 mm and 22.1mm respectively. July was also dry rather than rainy for Kutaisi International Airport. Therefore, I conducted July precipitation analysis as well. The average amount of precipitation in accordance with nine years data was 65,73 mm, however, in 2014 and 2015 the amount of precipitation was below 29 mm, 21.7 mm, 12.8 mm respectively. We should take into consideration global climate changes caused by the Sun's cyclic perturbance, that is taking place in Georgia as well and some months are characterized with heavy precipitation or on the contrary with the driest climate, moreover, if we consider our nine years' study as a priority criteria rather than annual ones, **Kutaisi International Airport can be assigned to Subtropical rainy climate zone Cr.**

## Alexander Kartveli Batumi International Airport

Climate model analysis, provided in the book, was conducted in order to assign Batumi International Airport to specific climate zone accordance to Koppen climate classification. I have used an updated chart of Koppen climate classification (Table #5).

*Tbale #5 Kyopen's climate classification chart**(UGSB)***

| Climate class | Climate zone | Criteria |
|---|---|---|
| A | Tropical climate | Average monthly temperature exceeds 17$^0$ C through the year |
| UGSB | | No |
| The Frost level (boundary) | | |
| C | Subtropical climate | Average monthly temperature exceeds 9$^0$ C, within the 8-12 month. |
| UGSB | | Yes |
| D | Temperate climate | Average monthly temperature exceeds 9$^0$ C , within the 4-7 month |
| UGSB | | Yes |
| E | Subarctic Climate | Average monthly temperature exceeds 9$^0$ C, within the 1-3 month. |
| UGSB | | Yes |
| The Forest cover level (boundary) | | |
| F | Polar Climate | Annual Temperature is no more than 9$^0$ C. |
| UGSB | | No |
| Dryness level (boundary) | | |
| B | Dry Climate | Evaporation exceeds precipitation |
| UGSB | | |

The G model was used to identify average temperatures of Batumi International Airport.

In accordance with the analysis the average temperatures in January, February, March, April and May throughout the years is mostly less than 17 $^0$C. Therefore, the result excludes Batumi International Airport to be assigned to the Tropical climate zone.

Analysis of the model G pointed out that average air temperatures were always more than 9 $^0$C during April, May, June, July, August, September and October in 2010-2019. Average air temperature of November, namely 7, 39 $^0$C was only recorded in 2011. As for years (2010, 2012-2019), average temperature of November month was always above 9 $^0$C. Average air temperature of November was 12,64 $^0$C in accordance to the data of ten years' study. If we admit this particular exception and consider that average temperature is more than 9 $^0$C in November, than we will get the following result: average temperature for 8 months is more than 9 $^0$C in Batumi International Airport, which is mandatory but not sufficient condition for Batumi International Airport to be assigned to Subtropical climate zone. It is worth to note that, we have the similar situation in March. Although, average temperature in 2011, 2012 and 2019 were 8, 98 $^0$C, 5, 34 $^0$C, 8,44 $^0$C respectively, years 2010, 2013-2018, the average air temperature was above 9 $^0$C.

The empirical data of nine years' study reveals that average air temperature is 10,11 $^0$C in March. If March is assumed to be the month with the average temperature more than 9 $^0$C, this additional assures Koppen criteria. The following nine months March-November can be considered as the months where average air temperature is more than 9 $^0$C. Note that, even eight months is sufficient according to Koppen - Trewartha classification (Table#5).

If we want to assign Batumi International Airport to any climate zone, additional analysis of summer, monthly precipitation should be conducted (Koppen states that those months are April-Spetember). 2015 was quite dry year for Batumi region, so in contrast with other years monthly precipitations were minimal. For instance the amount of precipitation in July, August and September was 21.4 mm, 15 mm and 25.6 mm respectively. In the rest of the years and during all summer (Koppen defines summer as April- September period) the amount of precipitation was more than 29 mm based on the nine years of empirical data in accordance with climate model I.

The nine years data elicited amongst April- September was analyzed in accordance with Koppen's criteria and the results are reflected in the Table#6

*Table #6 Batumi International Airport precipitations grouped by months throughout the nine years (2011-2019)*

| April | May | June | July | August | September |
|---|---|---|---|---|---|
| 771.8 | 659.8 | 1682.6 | 1254 | 1482 | 2596 |

As the table points out the "**Driest Month**" is May, the minimum amount of precipitation in this month equals to 633,2 mm. As for the average precipitation in this month it is 79,15 mm, precipitation in May is always more than 29 mm, all above mentioned complies with the Koppen classification requirements and is enough to say that Batumi International Airport is **assigned to Subtropical rainy climate zone Cr**.

## Queen Tamar Mestia Airport

Like in the case of Tbilisi, Batumi and Kutaisi, the type of the climate zone which the Mestia Airport area belongs to was determined based on the Köppen climate classification system criteria.

The results of a three-year (2017-2019) analysis are shown in Table N6. As can be seen from the Table at Queen Tamar Mestia Airport each month within the 5 months' period (i.e. from May to

September) the average temperature was above $9^0$C. Theses temperature indices give good grounds for attributing the Mestia Airport area to the temperate climate zone (Model G was used for the analysis).

***Table № 6*** *Köppen climate classification scheme (in application to UGMS)*

| Climate class | Climate zone | Criteria |
|---|---|---|
| A | Tropical climate | Average monthly temperature exceeds $17^0$ C through the year |
| UGMS | | NO |
| ყინვის საზღვარი | | |
| C | Subtropical climate | Average monthly temperature exceeds $9^0$ C, within the 8-12 month. |
| UGMS | | NO |
| D | Temperate climate | Average monthly temperature exceeds $9^0$ C , within the 4-7 month |
| UGMS | | YES |
| E | Subarctic Climate | Average monthly temperature exceeds $9^0$ C, within the 1-3 month. |
| UGMS | | YES |
| ტყის საფარის საზღვარი | | |
| F | Polar Climate | Annual Temperature is no more than $9^0$ C. |
| UGMS | | NO |
| სიმშრალის საზღვარი | | |
| B | Dry Climate | Evaporation exceeds precipitation |
| UGMS | | |

The temperate climate zone is divided into two subtypes: the temperate sea and the temperate continental climate zones. In order to assign the Mestia Airport area to one of these two climatic zones, a Model G analysis was additionally conducted . The coldest month of the year for Mestia Airport is January, when the absolute value of air temperature reaches its minimum, and the three-year average temperature in this particular month was -3,25$^0$C. It is also important to note that the average absolute value for January of each year are less than $0^0$C and are minimal compared to other months, namely in 2017 - 3,97$^0$C, in 2018 - -2,30$^0$C, and in 2019 - 3,49$^0$C (see . Model G).

According to the Köppen climatic criteria, if the average temperature of the coldest month of the year is less than 0 $^0$C and at the same time the average absolute temperature within 4-7 months of the year is more than $9^0$C, then the area belongs to the DC type, i.e. temperate continental climate. For Mestia Airport, as mentioned above, every five months of each year the absolute air temperature is higher than $9^0$C, and the average temperature in the coldest month (January) is less than $0^0$C, which is a sufficient condition for the Mestia Airport area to be attributed to the **temperate continental climate zone - DC**.

Author: Doctor of philosophy in Physics

Badri Jijelava

15.09.2020.

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# CLIMATOLOGICAL SUMMARY OF GEORGIAN INTERNATIONAL AIRPORTS INTRODUCTION

"Climatological Summary of Georgian International Airports" is a statistical analysis of the observations data obtained by the meteorological stations at Tbilisi (UGTB), Kutaisi (UGKO), Batumi (UGSB) international airports and Mestia (UGMS) local airport.

It covers a Ten-year period of January 2010 – December 2019 for intenational airports and three-year period of January 2017 – December 2019 for domestic Mestia airport. The summary is composed of two parts. The first part deals with climatological and geographic characteristics of the airports as well as circulation processes in South Caucasus, which determine the formation of weather throughout the territory of Georgia. The second part depicts the ten-year (Three-year for Mestia Airport) distribution of meteorological elements (visibility distance along the runways, visibility, cloud height, wind speed and direction, wind Gust speed and direction, air temperature on the surface, QNH – min, max, average, correlation between air temperature, dew point temperature and relative humidity, weather phenomena) in tables and graphs according to months and seasons (some elements), annual and monthly rain rate, extreme values, matrix of favourable time for landing and take-off, comparison of annual rainfalls.

The "Climatology of Georgian Aerodromes" is intended for a wide range of users:

- international and domestic civil airlines which conduct flights to/from Georgian airports;
- private pilots;
- operational and administrative services of airports;
- aeronautical administration;
- air navigation services providers;
- the Georgian Civil Aviation Agency.

Besides the above-mentioned potential users, this Summary can also be used by specialists from other domains for the purposes of scientific research.

Preparation of statistical data is based on the recommendations of the International Civil Aviation Organization (ICAO) and the World Meteorological Organization (WMO) on climatologic data processing (Annex 3 to the Convention of the International Civil Aviation Organization; WMO Technical regulation № 49, Vol. 2) but at the same time the present paper contains a more detailed study and is enriched by additional information.

The depicted observation data from the meteorological stations at Tbilisi, Kutaisi Batumi and Mestia airports meet all the established requirements: the data are representative, continuous, and reliable. The Meteorological Service holds a Quality Management ISO 9001:2015 Certificate.

For obtaining climatological information of Tbilisi International Airport, thirty-minute (xx00 and xx30) METARs were processed. For Kutaisi International Airport, information was received by using one-hour METARs for the 2010-2012 period and thirty-minute (xx00 and xx30) METARs for the 2013-2018 period. Climatological data of Batumi international airport for 2010 and for the first six months of 2011 were processed on the basis of one-hour METARs, while the subsequent period on the basis of thirty-minute (xx00 and xx30) METARs. For obtaining climatological information of Mestia Airport, thirty-minute (xx00 and xx30) METARs were processed.

For the four airports each meteorological element were analysed. Their monthly and/or seasonal distribution is presented in the form of tables, graphs, and texts. The UTC time was used in the data processing (Tbilisi UTC +4). Abbreviations and their meaning are contained on page 810.

Meteorological elements the Summary addresses are processed according to the 15 models, 5 of them are elaborated by WMO:

- Model A. Frequencies (percent) of the occurrence of runway visual range/visibility (both in meters) and/or height of the base of the lowest cloud layer (in meters) of BKN or OVC extent below specified values at specified times.
- Model B. Frequencies (percent) of visibility below specified values (in meters) at specified times.
- Model C. Frequencies (percent) of the height of the base (in meters) of the lowest cloud layer of BKN or OVC extent below specified values at specified times.
- Model D. Frequencies of occurrence of concurrent wind direction (in 30° sectors) and speed within specified ranges.

- Model E. Frequencies (percent) of surface temperature (screen) in specified ranges of 5°C at specified times.
- Model F. The mean pressure (QNH), the minimum and maximum pressure values calculated for each month.
- Model G. Interdependency between the relative humidity (RH), the air temperature (Ta - $C^0$) and the dew point temperature.
- Model H. Frequencies of occurrence of specified weather phenomena at specified times.
- Model I. Correlation between monthly rainfall and average monthly temperature.
- Model J. Annual rainfall.
- Model K. Absolute Minimum and Maximum air temperatures by month for the specific observation period.
- Model L. Maximum wind gust by month for specific period of observation.
- Model M. Forecasting Matrix representing favourable periods for Departure and arrival for specific airports.
- Model N. Frequencies of occurrence of concurrent wind direction (in 30° sectors) and speed (from 8 up to 15 knots, 8<=WIND SPEED<=15) within specified time ranges. Sea and Land breeze for Batumi international airports.
- Model O. Annual rainfall comparison between Tbilisi, Kutaisi and Batumi international airports.

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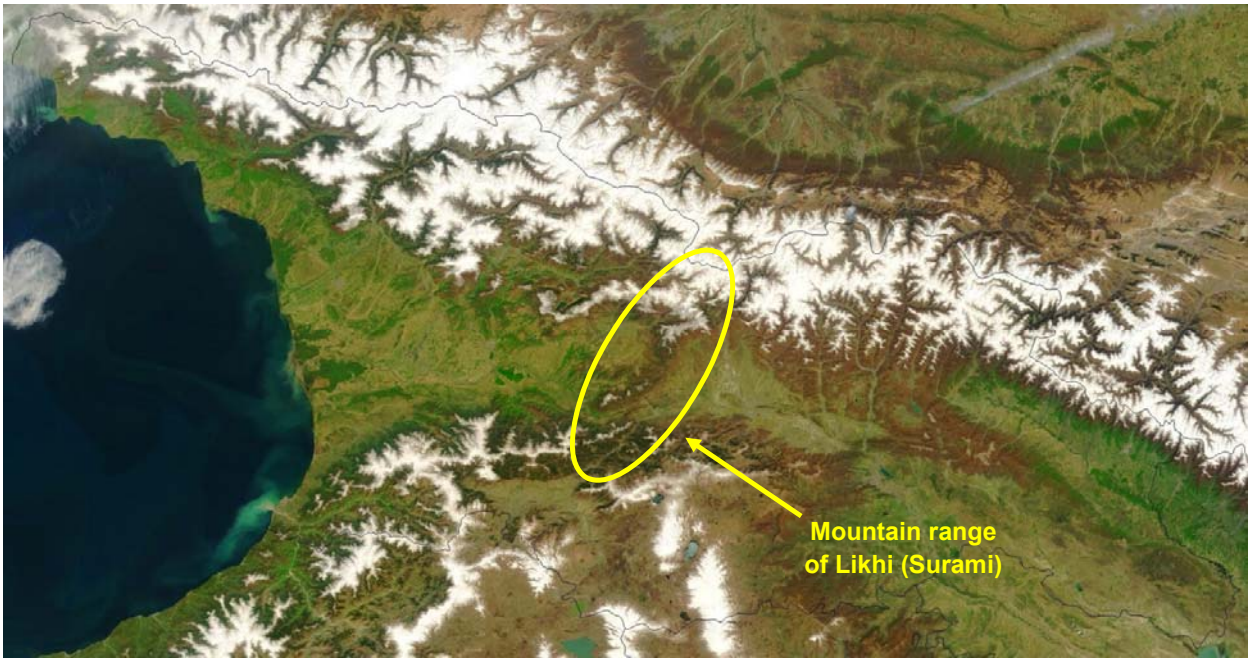
The Author will be grateful for comments, recommendations and suggestions from users of the book.

# BRIEF REVIEW OF GEORGIAN CLIMATE AND CIRCULAR PROCESSES




On Georgian territory, climatic and weather conditions are characterized by big diversity. Here are represented all types of climate described in the Koppen climate classification, except the tropical and equatorial ones. This kind of climate character is determined by the location of the country in the northern part of the subtropical climatic zone and east of the Black Sea, as well as by highly irregular terrain areas with medium and high mountains, which constitute approximately 54% of the country's territory. The Caucasus Mountain range, which runs in the north of Georgia, presents its natural border and protects the country from the direct impact of arctic cold air masses. As a result, these masses move towards the country's territory from the west with their lower layer warmed up and their humidity instability increased while passing over the Black Sea, they enter the territory saturated with moisture. Such synoptic situation is known as a **Western Circular Process.** When this synoptic process takes place the whole territory of Georgia experiences west or north-west winds, which can be strong in some areas. This process causes air temperature drop off and heavy precipitation; and after the front's passage, these conditions often continue as long as the cold air masses remain behind the front. It produces considerable cloudiness and a large amount of atmospheric precipitation, especially in West Georgia. After the air mass enters from the west, it crosses the mountain range of Likhi (Surami) – a climate barrier in Georgia – and goes down onto the wide gorge of the river Mtkvari, where a west wind blows. This process increases cloudiness and precipitation in the western part of East Georgia. In the lowland regions of the eastern part, it strengthens the west wind, whose gusts can exceed 50 knots (See Model D, Wind gust speed and direction per season). The **Western Circular Process** is typical of all seasons, but it is most frequent in spring and summer.

The second major type of atmosphere circulation, which determines the formation of weather conditions in Georgia, is called an **Eastern Circular Process.** Like in the case of the Western Circular Process, the Caucasus Mountain range protects Georgia from cold air masses coming from the North Polar Basin and Siberia. As a result, a front approaching the north slope flows round the range from the east. A low pressure area over the Black Sea contributes to the movement of the front from east to west. Georgia experiences the so-called "Invasion from the East", in other words, spreading of relatively cold air masses from the Caspian Sea. During the development of such circular process south-east, east and north-east winds are observed in the lower layer of the atmosphere over the Georgian territory, whereas in the upper layers, east winds are blowing. The Eastern Circular Process most often occurs in autumn and winter.

The Eastern Process is characterized by cloudy, rainy weather and by sharp drop of air temperature; it mainly occurs in the eastern regions of East Georgia. Usually, its strength is not enough to reach the Likhi Ridge and it dissipates on the plain of Shida Khartli. This process does not bring considerable weather changes in West Georgia. In the lower course of the River Rioni blows an east foehn wind whose speed sometimes exceeds 60 knots (See Model D, Wind gust speed and direction per season, Spring). If the process is strong, cold air masses can expand over the whole territory of Georgia, and a sharp drop in air temperature can occur on the Black Sea coast.

The only circular process that worsens weather conditions throughout Georgia and which manifests itself by the drop of air temperature on the whole territory, atmospheric precipitation and reduced visibility, is the "**Double-**

**Access Invasion".** This is when cold air masses accumulated to the north of the Caucasus Mountains flow round the Caucasus Ridge from the east and from the west to enter the country's territory simultaneously. After the cold air masses from the north have entered South Caucasus, an anticyclonic situation develops there. The orographic characteristics of the region, where alternation of plain and mountainous areas plays an important role, contributes to the dissipation or redistribution energy with in pressure-field. During such circular process, dry and less cloudy weather with week winds is observed on the whole territory of Georgia.

Upon completion of the intrusion of air masses into South Caucasus, stationary atmospheric fronts create favourable conditions for the formation of cyclones and their subsequent movement in the northeast or north direction. Such synoptic situations are called an "**Undulatory Invasion from the South".** During this process, cyclones generate strong winds and atmospheric precipitation in the areas where they are developing and moving. During warm seasons of the year, there is a high frequency of occurrence of thunderstorm and hail. This circular process is most frequent in summer.

Due to the local physical-geographical characteristics of Tbilisi, Kutaisi and Batumi International Airports, each synoptic process determines development of different weather conditions on their territory.

The most dangerous weather phenomena for Tbilisi, Kutaisi and Batumi aerodromes are:

- Fog
- Hail
- Thunderstorm
- Strong Wind
- Heavy Precipitations

# DESCRIPTION OF AERONAUTICAL CLIMATOLOGICAL MODELS

Description of the above-mentioned weather conditions developing on the territory of the aerodromes is based on the analysis of the data received in the course of meteorological observations of many years. Below are given the data processing methods corresponding to particular models.

## Model A

The Climatological tables (UGTB, UGKO and UGSB) for **Model A**.

**Model A** contains the frequencies (percent) of the occurrence of runway visual range/visibility (both in meters) and/or height of the base of the lowest cloud layer of BKN or OVC extent below specified values at specified times. For Kutaisi and Batumi airports, climatological data of meteorological elements were processed based on one-hour METARs, and for Tbilisi airport - based on thirty-minute METARs. The **Model A** table consists of two parts. The first part (the first 5 columns) shows frequencies (percent) of the occurrence of runway visual range or height of the base of the lowest cloud layer of BKN or OVC extent below specified values or both. The second part (the last 4 columns) contains the frequencies (percent) of the occurrence of visibility or height of the base of the lowest cloud layer of BKN or OVC extent below specified values or both. The values in the tables are presented on the following principle: the bigger value incorporates the smaller one(s), for example, if cloud height is less than 60m, it is included both in the column <60m and the column <90m (WMO-No. 49 - Technical Regulations, Volume II). The same principle is observed when processing the other meteorological elements in this Model.

The **Model A** table is accompanied by a graph/graphs. Such a table is made for every month of the year for each of the international airports of Georgia.

## Model B

The Climatological tables (UGTB, UGKO, UGSB AND UGMS) for **Model B**.

**Model B** includes frequencies (percent) of visibility below specified values (in meters) at specified times (See: table No. 1).

The frequency of observations implies one-hour intervals for Batumi and Kutaisi Aerodromes and half an hour intervals for Tbilisi aerodrome. The minimum (MIN) visibility values contained in the METARs were used when compiling climatological tables.

Table No.1 Visibility Criteria

| | |
|---|---|
| <200 m | <3000 m |
| <600 m | <5000 m |
| <800 m | <8000 m |
| <1500 m | |

To make climatological tables for this model the values of visibility observed within 24 hours were used. For each specified time the total number of observations was determined and the number of occurrences was provided in percentage based on the visibility criteria.

In the “MEAN” fields of the **Model B** table, the average value (in percentage) for each visibility criteria is given (WMO-No. 49 - Technical Regulations, Volume II). The values in the tables are presented on the following principle: the bigger value incorporates the smaller one(s), for example, if the visibility is less than 4500m, it is included both in the column <5000m and the column <8000m (WMO-No. 49 - Technical Regulations, Volume II).

A diagram was drawn for each aerodrome based on **Model B**. It reflects the dynamics of changes in visibility values according to the following gradation: <800m; <1500m; <3000m; <5000m; <8000m.

## Model C

The Climatological tables (UGTB, UGKO, UGSB AND UGMS) for **Model C**.

**Model C** describes frequencies (percent) of the height of the base of the lowest cloud layer of BKN or OVC extent below specified values at specified times (See: Table No.2).

Table No. 2. Height of the base (in feet) of the lowest cloud layer of BKN or OVC extent gradation

| | |
|---|---|
| ≤100 | ≤500 |
| ≤200 | ≤1000 |
| ≤300 | ≤1500 |

The values of the gradation are presented on the following principle: the bigger value incorporates the smaller one(s), for example, if the height of ceiling is less than 900ft, it is included both in the ≤1000ft column and in the ≤1500ft column (WMO-No. 49 - Technical Regulations, Volume II). The same principle is observed in the other columns of this Model table.

The "MEAN" fields at the bottom of the **Model C** table display the average value of the number of occurrences (in percentage) for each gradation parameter (WMO-No. 49 - Technical Regulations, Volume II).

A diagram was drawn for each aerodrome based on **Model C**. It depicts the ratio of the number of occurrences of each specified ceiling height (See: Table No. 3) to the total number of occurrences at ≤1500ft.

Table No. 3. Height of the base (in feet) of the lowest cloud layer of BKN or OVC extent gradation used in the diagram.

| | |
|---|---|
| <100 | >300≤500 |
| >100≤200 | >500≤1000 |
| >200≤300 | >1000≤1500 |

## Model D

The Climatological tables (UGTB, UGKO, UGSB AND UGMS) for **Model D**.

**Model D** depicts frequencies of occurrence of concurrent wind direction (in 30° sectors) and speed (in knots) within specified ranges. It contains the following information:

1. Wind speed breakdown at 5 knots' intervals (for example: 1-5; 6-10; 11-15 knots etc.);
2. Wind direction breakdown according to 30° ranges (For example: 20°-40° range means wind directions of 20°-30°-40°);
3. The number of occurrences of calm conditions when the wind speed equals 0 knot;
4. The frequency of variable (VRB) winds with the following characteristics:
   a. the wind direction is variable within 60° to 180° and the speed does not exceed 3 knots;
   b. the wind direction is variable over 180° and the speed exceeds 3 knots.
5. Wind gusts (additional information, not required by WMO-No. 49 - Technical Regulations, Volume II).

The "TOTAL" fields of the **Model D** table show the total percentage value of the particular wind directions within particular speed ranges. Each table is accompanied by a graph.

In the table depicting wind gusts, the wind direction is given in ranges of 10° and the speed of the wind gusts over 10 knots – at 5 knots' intervals.

The tables and graphs in this Model display climatological information that was obtained during eight-year observations and processed according to months and seasons.

## Model E

The Climatological tables (UGTB, UGKO, UGSB AND UGMS) for **Model E**.

**Model E** describes frequencies (percent) of surface temperature (screen) in specified ranges of 5°C at specified times.

The Tables given in the model show the monthly frequency of occurrence of specified temperatures at specified time intervals. The air temperatures of +44°C and -20°C were used as the basic highest and lowest values for processing purposes.

The table for this Model displays frequency of occurrence of the observed air temperatures within specified ranges (See: Table No. 4.) at specified time intervals. The mean values imply the monthly frequency of occurrence of each temperature range within the eight-year period. The statistical analysis is provided below the table.

Table No. 4. Air temperature (°C) ranges

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (°C) from | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| (°C) to | -16 | -11 | -6 | -0 | 4 | 9 | 14 | 19 | 24 | 29 | 34 | 39 | 44 |

## Model F

The Climatological tables (UGTB, UGKO and UGSB) for **Model F**.

**Model F** Climatological table shows the mean pressure (QNH) values at Tbilisi, Kopitnari and Batumi (UGTB, UGKO and UGSB) International Airports. The mean, the maximum and the minimum pressure values were calculated for each month of the climatological period under review.

## Model G

The Climatological tables (UGTB, UGKO, UGSB AND UGMS) for **Model G**.

**Model G** Climatological table describes interdependency between the relative humidity (RH), the air temperature (Ta - $C^0$) and the dew point (Td - $C^0$) at Tbilisi, Kopitnari and Batumi (UGTB, UGKO and UGSB) International Airports for each month of the climatological period under review. In accordance with Annex 3, (Annex 3 to the Chicago Convention on International Civil Aviation, APPENDIX 3. TECHNICAL SPECIFICATIONS RELATED TO METEOROLOGICAL OBSERVATIONS AND REPORTS, Chapter 4.6 Air temperature and dew-point temperature[9]) the rounded values of the temperature and the dew point at 30-minute intervals were taken from regular actual weather reports (METARs). The temperature and dew point values are rounded using the following method:

<u>Example:</u>

1. +1.5 +1.6... +1.9˚C are rounded up and included in METAR as +2˚C
2. +1.1 +1.2... +1.4˚C are rounded down and included in METAR as +1˚C
3. –1.5 –1.4... –1.1˚C are rounded up and included in METAR as –1˚C
4. –1.6 –1.7... –1.9˚C are rounded down and included in METAR as –2˚C

The relative humidity was calculated at 30-minute intervals based on the values gained after rounding up/down, using the following formula:

$$RH = 100\% * 10^{m*}\left\{\frac{Td}{Td+Tn} + \frac{Ta}{Ta+Tn}\right\}$$

Td – dew point temperature;

Ta (Ambient) – air temperature;

Tn – triple point temperature (constant). Triple point temperature is such a combination of the temperature and the pressure at which water may be in the gas (vapor), liquid and solid (crystal) form at the same time in the conditions of thermodynamic equilibrium.

m – constant;

Within the temperature values range of -20˚C …+50˚C

**Tn** = 240.7263 and

**m** = 7,591386.

Thus, when the values of the **Tn** and **m** constants are as above the accuracy of formula based calculation of relative humidity constitutes 0.083%[10].

For each month of each year of the climatological period under review the mean relative humidity, mean air temperature and mean dew point values were calculated using the abovementioned method. The results are given both in the table and the trend graph.

## Model H

The Climatological tables (UGTB, UGKO, UGSB AND UGMS) for **Model H**.

**Model H** Climatological table shows the mean percentage of occurrences of weather phenomena at Tbilisi, Kopitnari and Batumi (UGTB, UGKO and UGSB) International Airports for each month and season of the climatological period under review. The amount of BR, RA, FOG, MIFG-VCFG, FZFG, DZ, and SN weather phenomena was calculated for each month at 30-minute intervals, on the basis of which the frequency percentage of weather phenomena occurrences was obtained (See: climatological tables).
The following criterion was used for the weather phenomena climatological tables:
if two weather phenomena are observed during the same period (00, 30), then each value is inserted separately in the corresponding column (e.g. snow (SN) and fog (FOG) go to the snow and fog columns accordingly; rain and thunderstorm (TSRA) - each value is inserted separately in the rain and thunderstorm columns, etc.).
The “RA” Column includes both weak, moderate, heavy intensity rains (Cumulus Nimbus) SHRA and rains (Nimbus stratus) RA.

[9] Annex 3 to the Convention on International Civil Aviation;
[10] HUMIDITY CONVERSION FORMULAS, Calculation formulas of humidity, p. 16, Vaisala 2013.

## Model I

The Climatological tables (UGTB, UGKO, UGSB AND UGMS) for **Model I**.

**Model I** climatological tables show correlation between monthly rainfall and average monthly temperature for the period from 2011 to 2018 (UGTB, UGKO, UGSB). In the last row of the table is total rainfall for a specific month.

| Correlation between monthly rainfall and average temperature (UGTB) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | | |
| ….. | | |
| Total rainfall | | |

Model I also includes a corresponding correlation chart

## Model J

The Climatological tables (UGTB, UGKO, UGSB AND UGMS) for **Model J**.

**Model J** climatological tables shows annual rainfall for the period from 2011 to 2018 (UGTB, UGKO, UGSB).

| Year | UGTB Rainfall (mm) |
|---|---|
| 2011 | |
| …… | |

Model J also includes a chart based on the tables.

## Model K

Climatological Tables (UGTB, UGKO, UGSB AND UGMS) for **Model K**

**Model K** climatological tables show the Absolute Minimum and Maximum air temperatures by month for the specific observation period

## Model L

Climatological Tables (UGTB, UGKO, UGSB AND UGMS) for **Model L**

**Model L** climatological tables show the Maximum wind gust by month for specific period of observation.

## Model M

The Model M climatological table represents a forecasting matrix based on the climatological data. The matrix contains analysis of the following four climatological tables:

1. **Model B – Visibility**
2. **Model C – Ceiling**
3. **Model E – Temperature**
4. **Model H – Weather Phenomena**

Based on this analysis, periods favorable for departures and arrivals at Tbilisi, Kutaisi and Batumi international Airports were determined for each month.

Tbilisi and Kutaisi international airports are of Category I. The requirements for Cat I operations are as follows:

*Category I (CAT I) operation. A precision instrument approach and landing with:*

***a) A decision height not lower than 60 m (200 ft); and***

***b) With either a visibility not less than 800 m or a runway visual range not less than 550 m.***[11]

[11] ICAO doc – 9365, AN/910, "Manual of all-weather operations", Third edition 2013 Year;

The International airports of Georgia are equipped with ICAO requirements compliant meteorological sensors that enable it to always have both the RVR (Runway visual range) and meteorological visibility data available. Proceeding from this fact, it was the RVR criteria that was taken as basic and not the meteorological visibility as long as the RVR factor ("RVR not les than 550 m") is more limiting than the meteorological visibility restricting parameter (visibility not less than 800 m).

**Shota Rustaveli Tbilisi international airport**

To determine favorable periods of the day for departure/arrival operations at Shota Rustaveli Tbilisi international airport a three-step methodology was applied while processing climatological data.

**1. Climatological tables were analyzed by month (Model B) for daily time periods when the visibility (MOR) was more than 600 metres[12] and less than 600 metres. In the latter parameter group time periods were selected when the amount of occurrences constituted less than 2, 3, and 4 percent. Also, analysis was conducted by month (Model C) for time periods when the cloud ceiling (BKN, OVC) was more than 300 feet and less than 300 feet, and within the latter parameter span time periods were selected when the amount of occurrences was less than 2, 3, and 4 percent. Further, the data was grouped and classified as follows:**

a) *visibility of more than 600 metres plus the visibility occurrences of less than 600 metres constituting less than 2 percent and cloud ceiling (BKN, OVC) of more than 300 feet plus the cloud ceiling occurrences of less than 300 metres with the statistical value of less than 2 percent - Definition "Better".*
b) *visibility of more than 600 metres plus the visibility occurrences of less than 600 metres constituting less than 3 percent and cloud ceiling (BKN, OVC) of more than 300 feet plus the cloud ceiling occurrences of less than 300 metres with the statistical value of less than 3 percent - Definition "Good".*
c) *visibility of more than 600 metres plus the visibility occurrences of less than 600 metres constituting less than 4 percent and cloud ceiling (BKN, OVC) of more than 300 feet plus the cloud ceiling occurrences of less than 300 metres with the statistical value of less than 4 percent - Definition "Worse".*

Note: Blank cells in the Matrix mean unfavorable time periods for arrival and departure operations, i.e. weather parameters within these periods are beyond the set criteria.

The table below shows the above mentioned method applied for the visibility and ceiling data analysis.

| TIME | Definition | Visibility <600 Meters | Ceiling (BKN, OVC) < 300 Feet |
|---|---|---|---|
| HH:MM[13] | Better | <2% | <2% |
| HH:MM | Good | <3% | <3% |
| HH:MM | Worse | <4% | <4% |

Table 1

**2. After that additional filtration of the Matrix (Model M) was conducted for such meteorological elements as temperature (Model E), precipitation and thunderstorm occurrences (Model H) since only visibility and cloud ceiling parameters may seem insufficient in the flight safety environment. Thus, time periods were selected with air temperatures higher than -5$^0$ C. Also, those periods with temperatures lower than -5$^0$ C were selected witch's statistical frequency of occurrence constituted not more than 3 % (Model E). Both the received groups were further filtered to select periods when the value of precipitation**

[12] When visibility (MOR) equals 600 metres, RVR is always more than 600 metres. The exact value of RVR depends on the intensity step of the runway centerline and edge lights, which meets the "RVR not less than 550 m" requirement contained in ICAO doc – 9365, AN/910;

[13] HH:MM means hour and minutes

**occurrences did not exceed 3% (Model H). This precipitation-temperature correlation based analysis was performed to find periods when conditions for ice formation on the runway surface were unlikely to occur.**

**3. The third filtration of the matrix was conducted for thunderstorm occurrences (Model H) in the aerodrome area (0-8 km) and in the vicinity of the aerodrome (8-16 km). Time periods are considered unfavorable for departure/arrival operations when the statistical value of thunderstorm activity occurrences in these areas constitute 3% and more.**

The table below shows the criteria of the second and third steps of the climatological data analysis.

| Temperature < -5$^0$ C | precipitation | TS |
|---|---|---|
| <3% | <3% | <3% |

Table 2.

***King David Builder Kutaisi international airport***

For King David Builder Kutaisi international airport, the same method of climatological data analysis was applied and a similar Matrix (Model M) was created with the only difference in temperature criteria, as seen from Tables 3 and 4 below.

| TIME | Definition | Visibility <600 Meter | Cloud ceiling (BKN, OVC) <300 Feet |
|---|---|---|---|
| HH:MM | Better | <2% | <2% |
| HH:MM | Good | <3% | <3% |
| HH:MM | Worse | <4% | <4% |

Table 3.

| Temperature < -5$^0$ C | precipitation | TS |
|---|---|---|
| **<1%** | <3% | <3% |

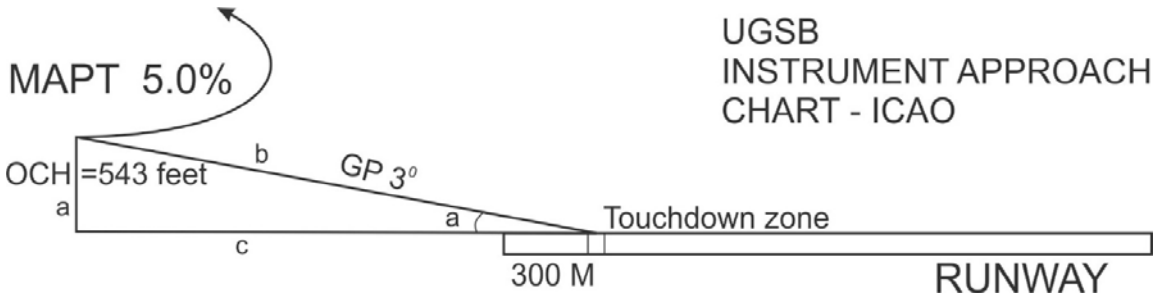
Table 4.

***Alexander Kartveli Batumi international airport***

Batumi international airport is a CAT A airport (CAT A includes CAT B, C, and D)[14]. This aspect necessitated defining visibility and cloud ceiling criteria for Batumi international airport.

At Batumi international airport, on the instrument approach under CAT A and B the obstacles clearance height (OCH) is 543 feet with a go-around gradient of 5%. (See drawing 1 below, which is based on the INSTRUMENT APPROACH CHART – ICAO contained in Georgian eAIP)

[14] See eAIP of Georgia




Drawing 1

Proceeding from the established procedure, the OCH parameter was set as a cloud ceiling criterion. Following it, the climatological table (Model C) was filtered for cloud ceiling values of more than 500 feet as conditions favorable for landing.

In view of the fact that on an instrument approach the crew shall have a visual contact with the runway threshold a favorable visibility parameter should also be determined. If the approach leg from the MAPT to the touchdown zone is represented as an ABC right-angled triangle the mathematical computations will give the following results:

Tan a = a/c,

a = 543 feet,

Tan a = Tan $3^0$ = 0.05240778.

c = 543/0.05240778 = 10361.05708 feet = 3158.05019 metres ≈ 3200 metres;

The Pythagorean Theorem makes it possible to determine the slant visibility: $b^2 = a^2 + c^2$ = 10375.2760 feet = 3162.3841 metres ≈ 3200 metres provided the atmosphere from the surface layer to the level of flight is homogeneous, i.e. aerosol concentration is the same in each cubic metre of the atmosphere. If the atmosphere is not uniform, the slant visibility can be either more or less than the horizontal visibility. As seen from the calculation results, the slant visibility (hypotenuse - b) and the horizontal visibility (catheter - c) are almost the same because the “a” angle of the ABC triangle is very small.

a = 543 feet,

b ≈ 3200 meter;

c ≈ 3200 meter;

According to Drawing 1 the distance from MAPT[15] to the runway threshold equals: 3200-300=2900 metres. So, for Batumi international airport a horizontal visibility of 2900 metres was set as a minimum value favorable for an instrumental approach and the climatological table (Model B) was filtered for data of more than 3000 metres.

For Batumi international airport a similar Matrix (Model M) as for Tbilisi and Kutasi airports was created with differing temperature and thunderstorm criteria as can be seen in Table 6 below.

| TIME | Definition | Visibility < 3000 Meter | Cloud ceiling (BKN, OVC) < 500 Feet |
|---|---|---|---|
| HH:MM | Better | <2% | <2% |

[15] Missed Approach Point

| | | | |
|---|---|---|---|
| HH:MM | Good | <3% | <3% |
| HH:MM | Worse | <4% | <4% |

Table 5

| Temperature < - $0^0$ C | precipitation | TS |
|---|---|---|
| **<3%** | <3% | **<4%** |

Table 6

**In conclusion it should be noted that the Model M matrix was worked out to be used as reference material and in no way claims to be a dogma. As years go by the matrix may be giving modified results following the changes in the climatological tables data. It does happen that a certain weather phenomenon, which has not been observed for 6 years, suddenly occurs and even persists. The aim of the work was to determine periods that are most favorable for arrival and departure operations at Georgian international airports as well as to demonstrate how climatological tables can be used for airlines and other aviation industry companies to be able to create their own matrices similar to the Model M one.**

## Model M

კლიმატოლოგიური ცხრილი, მოდელი M წარმოადგენს კლიმატოლოგიურ მონაცემებზე დაყრდნობილ პროგნოსტიკულ მატრიცას. მატრიცაში მოხდა სხვადასხვა კლიმატოლოგიური ცხრილების გაანალიზება და განისაზღვრა თვეების მიხედვით, ყველაზე ხელსაყრელი დრო თბილისის, ქუთაისის და ბათუმის საერთაშორისო აეროპორტებში აფრენა - დაფრენისათვის.

მატრტიცაში გამოყენებულ იქნა შემდეგი კლიმატოლოგიური ცხრილები.

1. მოდელი B - ხილვადობის კლიმატოლოგიური ცხრილი
2. მოდელი C - ღრუბლების სიმაღლის კლიმატოლოგიური ცხრილი
3. მოდელი E - ტემპერატურის კლიმატოლოგიური ცხრილი
4. მოდელი H - ამინდის მოვლენების კლიმატოლოგიური ცხრილი.

თბილისის და ქუთაისის საერთაშორისო აეროპორტები წარმოადგენენ CAT 1 კატეგორიის აეროპორტებს. პირველი კატეგორიის აეროპორტებისთვის განსაზღვრულია, რომ

*Category I (CAT I) operation.* A precision instrument approach and landing with:
a) a decision height not lower than 60 m (200 ft); and
b) with either a visibility not less than 800 m or a runway visual range not less than 550 m.[16]

სამივე საერთაშორისო აეროპორტი აღჭურვილია შესაბამისი მეტეოროლოგიური სენსორებით და მეტეოროლოგიურ ხილვადობასთან ერთად ყოველთვის იანგარიშება ხილვადობა ასაფრენ-დასაფრენ ზოლზე. აქედან გამომდინარე კრიტერიუმად აღებულ იქნა არა მეტეოროლოგიური ხილვადობა, არამედ ხილვადობა ასაფრენ - დასაფრენ ზოლზე, კერძოდ "RVR not les than 550 m.".

### *შოთა რუსთაველის სახელობის თბილისის საერთაშორისო აეროპორტი*

არსებული რეგულაციის შესაბამისად ხილვადობის კლიმატოლოგიური ცხრილებიდან თვეების მიხედვით მოძიებულ იქნა ის დრო (ცხრილი #1 -ის პირველი სვეტი), როცა მეტეოროლოგიური ხილვადობა იყო 600 მეტრზე მეტი[17] და ასევე 600 მეტრზე ნაკლები, როცა მოხდენის სტატისტიკური მაჩვენებელი 2 ან 3 ან 4 პროცენტზე ნაკლები იყო. ანალოგიური მიდგომა იქნა გამოყენებული ღრუბლის სიმაღლეებთან მიმართებაში. განისაზღვრა თვეების მიხედვით ის

[16] ICAO doc – 9365, AN/910, "Manual of all-weather operations", Third edition 2013 Year;

[17] მეტეოროლოგიური ხილვადობა როცა 600 მეტრის ტოლია, ხილვადობა ასაფრენ-დასაფრენ ზოლზე ყოველთვის 600 მეტრზე მეტია, დამოკიდებულია ღერძულა და გვერდითი სანათების შუქის ინტენსივობაზე - „განათების ბიჯზე", რაც აკმაყოფილებს და მეტიც არის ICAO doc – 9365, AN/910 დოკუმენტში განსაზღვრულ RVR 550 მეტრის მაჩვენებლზე.

დრო, როცა ღრუბლის სიმაღლე (BKN, OVC) 300 ფუტზე მეტი იყო და ასევე 300 ფუტზე ნაკლები, მაგრამ მისი მოხდენის სტატისტიკური მაჩვენებლი არ აჭარბებდა 2, 3, 4 პროცენტს.

ზემოთ ჩამოყალიბებული მოთხოვნათა კრიტერიუმები გამოვსახე ცხრილი #1-ის სახით

*ცხრილი 1*

| TIME | Definition | მეტეოროლოგიური ხილვადობა <600 მეტრზე | ღრუბლის სიმაღლე (BKN, OVC) <300 ფუტზე |
|---|---|---|---|
| HH:MM[18] | Better | <2% | <2% |
| HH:MM | Good | <3% | <3% |
| HH:MM | Worse | <4% | <4% |

1. **როგორც ცხრილი #1-დან ჩანს შემთხვევა, როცა ხილვადობა მეტია 600 მეტრზე და ასევე შესაძლებელია იყოს ნაკლები 600 მეტრაზე იმ პირობით, რომ მოხდენის სტატისტიკური კლიმატოლოგიური მაჩვენებელი ნაკლებია 2 პროცენტზე (მოდელი B) და ამავდროულად ღრუბლის სიმაღლე (BKN, OVC) მეტია 300 ფუტზე და ასევე შესაძლებელია იყოს ნაკლები 300 ფუტზე, იმ პირობით, რომ მისი მოხდენის სტატისტიკური კლიმატოლოგიური მაჩვენებელი ნაკლებია 2 პროცენტზე (მოდელი C) განისაზღვრა როგორც „უკეთესი".**

2. **შემთხვევა, როცა ხილვადობა მეტია 600 მეტრზე და ასევე შესაძლებელია იყოს ნაკლები 600 მეტრზე იმ პირობით, რომ მოხდენის სტატისტიკური კლიმატოლოგიური მაჩვენებელი ნაკლებია 3 პროცენტზე (მოდელი B) და ამავდროულად ღრუბლის სიმაღლე (BKN, OVC) მეტია 300 ფუტზე და ასევე შესაძლებელია იყოს ნაკლები 300 ფუტზე, იმ პირობით, რომ მისი მოხდენის სტატისტიკური კლიმატოლოგიური მაჩვენებელი ნაკლებია 3 პროცენტზე (მოდელი C) განისაზღვრა როგორც „კარგი".**

3. **შემთხვევა, როცა ხილვადობა მეტია 600 მეტრზე და ასევე შესაძლებელია იყოს ნაკლები 600 მეტრზე იმ პირობით, რომ მოხდენის სტატისტიკური კლიმატოლოგიური მაჩვენებელი ნაკლებია 4 პროცენტზე (მოდელი B) და ამავდროულად ღრუბლის სიმაღლე (BKN, OVC) მეტია 300 ფუტზე და ასევე შესაძლებელია იყოს ნაკლები 300 ფუტზე, იმ პირობით, რომ მისი მოხდენის სტატისტიკური კლიმატოლოგიური მაჩვენებელი ნაკლებია 4 პროცენტზე (მოდელი C) განისაზღვრა როგორც „უფრო ცუდი".**

**ამის შემდგომ მოხდა მიღებული მატრიცის დამატებითი ფილტრაცია, შემდეგი მეტეოროლოგიური ელემენტების მიხედვით: ტემპერატურა (მოდელი E), ნალექები და ელჭექები (მოდელი H);**

*ცხრილი 2*

| ტემპერატურა < -5$^0$ C | ნალექები | ელ-ჭექები |
|---|---|---|
| <3% | <3% | <3% |

4. ***მივიჩნიე, რომ ხილვადობა და ღრუბლის სიმაღლე არასაკმარისი პირობაა უსაფრთხო ფრენებისთვის და დამატებით მოვახდინე ცხრილი #2-ის შესაბამისად არსებული მატრიცის სრულყოფა. კერძოდ აფრენა დაფრენისთვის ხელსაყრელ დროდ მივიჩნიეთ პერიოდი, როცა ჰაერის ტემპერატურა -5 C$^0$ – ზე მეტი იყო და -5 C$^0$ -ზე ნაკლები, იმ პირობით, რომ მისი მოხდენის სტატისტიკური კლიმატოლოგიური მაჩვენებელი არ აჭარბებდა 3%-ს (მოდელი E) და ამასთან ერთად, ასეთი პერიოდისთვის მოსული ნალექების მაჩვენებელი არ აჭარბებდა 3 %-ს (მოდელი H). ნალექების და ტემპერატურის ასეთი კორელაცია გამოვიყენე იმისათვის რომ მომეხდინა ასაფრენ-დასაფრენი ზოლის შემოყინვის პრევენცია, რაც ნიშვნელოვანი ფაქტორია საჰაერო ხომალდების აფრენა-დაფრენისთვის.***

5. ***საბოლოოდ მოვახდინე არსებული მატრიცის დამატებითი ფილტრაცია ისეთი კრიტერიუმით, როგორიცაა ელ-ჭექების არსებობა (მოდელი H) აეროდრომზე (0-8 კმ) ან მის შემოგარენში (8-16 კმ). აფრენა დაფრენისთვის მიუღებლად ჩაითვალა ყველა ის დრო, როცა აეროდრომზე ან მის შემოგარენში ელ-ჭექების აქტივობა შეადგენს 3%-ს ან 3%-ზე მეტს.***

[18] HH:MM ნიშნავს თვის გარკვეულ დროს საათი და წუთი

### *დავით აღმაშენებლის სახელობის ქუთაისის საერთაშორისო აეროპორტი*

ქუთაისის საერთაშორისო აეროპორტებისთვის შეიქმნა მსგავსი მატრიცა, იმ განსხვავებით, რომ გამოყენებულ იქნა ცხრილი #3-ში და ცხრილი #4-ში მოცემული კრიტერიუმები.

***ცხრილი #3***

| TIME | დეფინიცია | მეტეოროლოგიური ხილვადობა <600 მეტრზე | ღრუბლის სიმაღლე (BKN, OVC) <300 ფუტზე |
|---|---|---|---|
| HH:MM | Better | <2% | <2% |
| HH:MM | Good | <3% | <3% |
| HH:MM | Worse | <4% | <4% |

***ცხრილი #4***

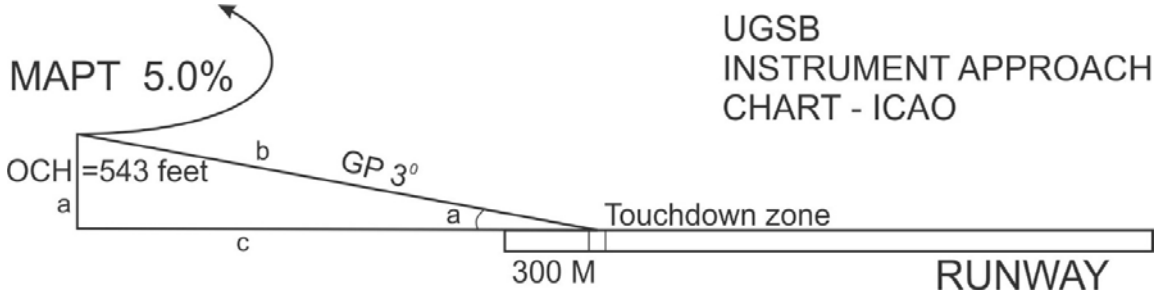
| ტემპერატურა < -5$^0$ C | ნალექები | ელ-ჭექები |
|---|---|---|
| **<1%** | <3% | <3% |

### ალექსანდრე ქართველის სახელობის ბათუმის საერთაშორისო აეროპორტი

ბათუმის საერთაშორისო აეროპორტი წარმოადგენს **A კატეგორიის აერპორტს (A კატეგორია თვისთავში აერთიანებს B,C,D კატეგორიასაც)**[19] აქედან გამომდინარე აუცილებელი გახდა დამატებით განმესაზღვრა მეტეოროლოგიური ხილვადობის და ღრუბლის სიმაღლის კრიტერეუმი.

ბათუმის საერთაშორისო აეროპორტში სახელსაწყო ფრენების პროცედურის მიხედვით, კატეგორია A,B -სთვის მინიმალური OCH – obstacle clearance height 543 ფუტითაა განსაზღვრული, როცა მეორე წრეზე წასვლის გრადიენტი შეადგენს 5%-ს. იხილეთ საქართველოს საერნაოსნო კრებულიდან ამონარიდის (INSTRUMENT APPROACH CHART – ICAO) საფუძველზე, ჩემს მიერ შექმნილი ანალოგიური სქემატური ნახაზი.

ნახაზი #1




როგორც ნახაზი #1-დან ჩანს, მეორე წრეზე წასვლის გადაწყვეტილების დროს (5% გრადიენტით) საფრენოსნო ხომალდის სიმაღლე (“OCH”) შეადგენდეს 543 ფუტს აქედან გამომდინარე მინიმალურ ღრუბლის სიმაღლედ განისაზღვრა სწორედ ეს მაჩვენებლი, ხოლო ჩვენი კლიმატოლოგიური ცხრილის მიხედვით (მოდელი C), ავიღეთ ღრუბლის სიმაღლე არანაკლებ 500 ფუტისა. როცა საფრენოსნო ხომალდი ამ სქემის მიხედვით შემოდის დასაფრენად მას ვიზუალური კონტაქტი უნდა გააჩნდეს ასაფრენ დასფრენ ზოლთან. მათემატიკური ფორმულის მიხედვით, თუ ამ სქემას წარმოვიდგენთ როგორც მართკუთხა ABC სამკუთხედს, მაშინ მივიღებთ, რომ

Tan a = a/c,

a = 543 ფუტი,

Tan a = Tan 3$^0$ = 0.05240778.

c=543/0.05240778= 10361.05708 ფუტი = 3158.05019 მეტრი ≈ 3200 მეტრი;

[19] იხილეთ საერონაოსნო კრებული

პითაგორას თეორემით განისაზღვრა „დახრილი ხილვადობა“ $b^2 = a^2 + c^2$= 10375.2760 ფუტი= 3162.3841 მეტრი ≈3200 მეტრი; „დახრილი ხილვადობა“ განისაზღვრა იმ დაშვებით, რომ ატმოსფერო მიწისპირა ფენიდან დაწყებული საფრენოსნო ხომალდის ფრენის ეშელონამდე ერთგვაროვანია. ერთგვაროვნებაში ვგულისხმოთ ერთეული მოცულობის ატმოსფეროში აეროზოლების ერთნაირ კონცენტრაციას. არაერთგვაროვნების შემთხვევაში „დახრილი ხილვადობა“ შესაძლებელია უფრო მეტი ან ნაკლები იყოს ვიდრე მიწისპირა ჰორიზონტალური ხილვადობა. როგორც შედეგიდან ჩანს ABC სამკუთხედის a კუთხის სიმცირის გამო, დახრილი ხილვადობა (ჰიპოტენუზა - b) და ჰორიზონტალური ხილვადობა (კათედი - c) თითქმის ერთმანეთის ტოლია.

a = 543 ფუტს,

b ≈ 3200 meter;

c ≈3200 meter;

ნახაზის მიხედვით MAPT[20]-დან ასაფრენ-დასაფრენ ზოლის ზღურბლამდე - „Threshold“-მდე მანძილი შეადგენს 3200-300=2900 მეტრს. ე.ი. გამოთვლების შედეგად ბათუმის საერთაშორისო აეროდრომისთვის მინიმალურ ჰორიზონტალურ ხელვადობა განისაზღვრა 2900 მეტრი და კლიმატოლოგიურო ცხრილიდან კრიტერიუმად აღებულ იქნა 3000 მეტრზე მეტი მეტეოროლოგიური ხილვადობად (მოდელი B); მატრიცა (მოდელი M) ბათუმის საერთაშორისო აეროპორტისთვის შეიქმნა თბილისის და ქუთაისის აეროპორტების ანალოგიურად იმ განსხვავებით, რომ გამოყენებულ იქნა ცხრილ 5-ში და ცხრილ 6-ში მითითებული კრიტერიუმები.

**ცხრილი 5**

| TIME | დეფინიცია | მეტეოროლოგიური ხილვადობა < 3000 მეტრზე | ღრუბლის სიმაღლე (BKN, OVC) < 500 ფუტზე |
|---|---|---|---|
| HH:MM | Better | <2% | <2% |
| HH:MM | Good | <3% | <3% |
| HH:MM | Worse | <4% | <4% |

***ცხრილი #6***

| ტემპერატურა < - $0^0$ C | ნალექები | ელ-ჭექები |
|---|---|---|
| **<3%** | <3% | <4% |

**ამრიგად, მოდელი M მატრიცა უნდა განვიხილოთ როგორც საკონსულტაციო ხასიათის მატარებელი ინფორმაცია და არავითარ შემთხვევაში დოგმატური ხასითის. წლიდან-წლამდე შესაძლებელია, შეიცვალოს აღნიშნული მატრიცის შედეგები, იმისდა მიხედვით, თუ როგორ შეიცვლება კლიმატოლოგიური ცხრილები. ხშირია შემთხვევები, როცა გარკვეული ამინდის მოვლენა არ დაიკვირვება 6 წლის განმავლობაში, მაგრამ ადგილი აქვს მე-7 ან მე-8 წელს. ჩემი მიზანი იყო არსებული მატრიცით ამერჩია სამივე აეროპტებისთვის საუკეთესო პერიოდები აფრენა-დაფრენისთვის და მეჩვენებინა ავიაკომპანიებისთვის და სხვა დაინტერესებული საავიაციო სფეროს ექსპლუატანტებისთვის, თუ როგორ შეიძლება გამოიყენონ აღნიშნული კლიმატოლოგიური ცხრილები და თვითონვე შექმნან მათთვის მისაღები, მოდელი M-ის მსგავსი მატრიცები.**

[20] Missed Approach Point

**Model N**

Model N is created only for Batumi International Airport (UGSB).

Model N analyzes by the sea and Land breezes on the territory of Batumi International Airport according to each month and time of the year. It describes the frequencies of wind speeds between 8-15 knots within a 30 degrees intervals of direction. Each cell of the climatology table shows the frequencies ofoccurance wind speeds from 8 to 15 knots against total number of observations at a specific time.

Climatology tables reflect, Sea and land breezes directional variabilities as well as wind intensity and breeze transition (land to sea and vice versa) periods in accordance with each month and time. Batumi International Airport is not characterized with strong breezes, the average speed of wind breezes reaches maximum of 15 knots. Therefore, 15 knots speed winds, sea and land breezes, have been separated from the model D. I analyzed the wind speeds between 8-15 (> 7 and <= 15) knots due to the safety concerns for aviation (for take off / landing) procedures, and analyzed the wind at such speeds[21]. Analyzed was done excluding frontal process.

For instance, let's analyze the Climatological Table of September Breezes of Batumi. land breezes are marked with brown color, and sea breezes - with cyan color. The table reveals that the direction of land breeze varies from $110^0$ to $160^0$ (15, 24% and 14,51%). Starting from 00:00 (UTC), the peak is reached at 05:00 (26,25% and 33,56%). There may exist horizontal windshare along the Runway from 07:00 up to 08:00, since the land breeze is replaced by sea breeze, and the wind radically changes direction. At Batumi Airport the sea breeze with wind directions between $200^0$ to $280^0$ (percentage point equals 2,11%, 4,58%, 1,7%) is becoming dominant at 08:00 (UTC). Sea breeze is replaced with the land breeze at 17:00. Horizontal wind shear occurs during this transition period as wind blows from different directions along the runway. The land breeze becomes dominant again and blows between$110^0$-$160^0$ at 18: 00, and continues up to the next day until 07:00. Wind shear phenomena, that take place along with the local (non synoptic scale) processes, is not very dangerous (depends on the type of the aircraft). Moreover, our analysis is based on wind speeds up to 15 knots, and according to the ICAO document considering wind shear phenomena, wind shear is not considered hazardous for flight safety[22] when wind speeds are up to 15 knots.

[21] The airctart landing and take off against the ground wind direction, to increase the thrust force of aircraft and decreeze the take off distance.

[22] ICAO DOC 9817 AN/449, "Manual of low level wind shear", first edition 2005 Year.

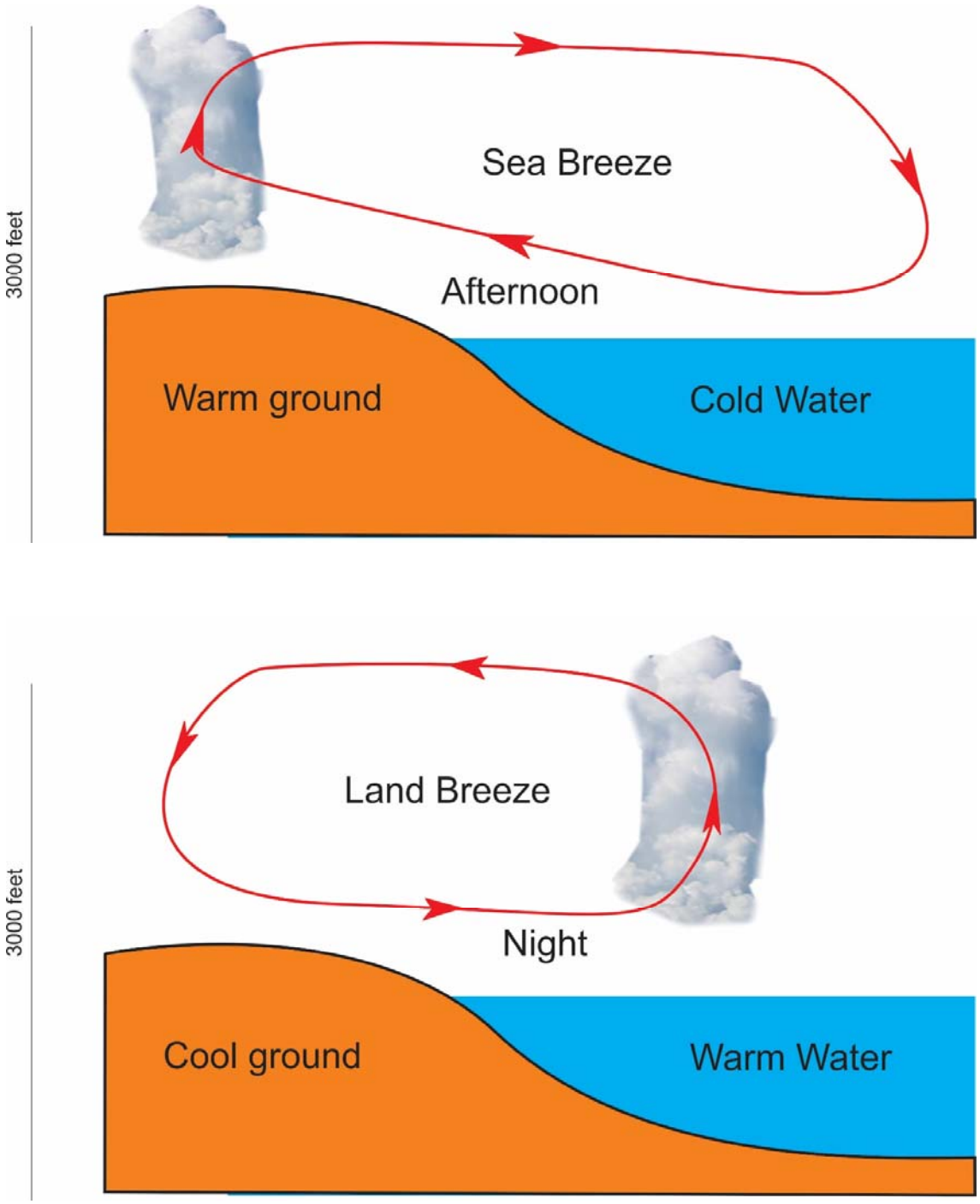
*Table # 1 Climatological Table of September for Model N*

| FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | - | - | 0.364 | 28.000 | 27.273 | 0.727 | 1.818 | 1.455 | - | 0.364 | 0.364 |
| 1:00 | - | - | - | 0.337 | 27.273 | 25.926 | 1.684 | 1.347 | 0.673 | 1.010 | 0.337 | - |
| 2:00 | - | - | - | 0.730 | 29.197 | 30.657 | 0.730 | 0.730 | 0.365 | 0.365 | 0.365 | 0.730 |
| 3:00 | - | 0.355 | - | - | 28.369 | 27.660 | - | 2.128 | 0.709 | 1.773 | - | - |
| 4:00 | - | 0.337 | - | 1.010 | 32.323 | 25.926 | 1.010 | 1.347 | 0.673 | - | 0.673 | - |
| 5:00 | - | - | - | 0.664 | 26.246 | 33.555 | 0.664 | 1.329 | 0.997 | 0.664 | - | - |
| 6:00 | - | - | - | 0.336 | 19.463 | 26.510 | 0.671 | 2.685 | 1.007 | 0.336 | - | - |
| 7:00 | - | 0.338 | - | 0.676 | 8.784 | 11.149 | 0.676 | 3.041 | 5.068 | 1.689 | 0.676 | 0.338 |
| 8:00 | - | 1.342 | - | - | 3.020 | 2.685 | 0.336 | 4.027 | 10.067 | 1.678 | 0.336 | 0.336 |
| 9:00 | - | 1.347 | - | - | 1.347 | 2.020 | - | 1.010 | 10.438 | 3.367 | 1.010 | 0.337 |
| 10:00 | - | 2.365 | 0.338 | 0.338 | 2.365 | 1.014 | 1.014 | 2.365 | 14.865 | 4.392 | 0.676 | 0.338 |
| 11:00 | - | 1.351 | - | 0.338 | - | 3.041 | 0.338 | 2.027 | 13.514 | 6.081 | 2.027 | - |
| 12:00 | - | 1.003 | - | - | 0.669 | 1.672 | 0.334 | 2.676 | 12.709 | 5.017 | 0.669 | 0.334 |
| 13:00 | - | 1.342 | - | - | 1.342 | 2.685 | - | 2.349 | 9.396 | 4.027 | 0.671 | 1.007 |
| 14:00 | - | 0.339 | - | - | 1.356 | 2.373 | 0.678 | 3.390 | 7.119 | 3.390 | 0.339 | 0.339 |
| 15:00 | - | - | - | - | 2.712 | 3.390 | 0.678 | 3.051 | 5.763 | 1.695 | 0.678 | 0.339 |
| 16:00 | - | - | - | - | 4.027 | 3.691 | - | 1.678 | 4.362 | 1.678 | 0.671 | 0.336 |
| 17:00 | - | - | - | - | 4.746 | 7.797 | 0.339 | 1.695 | 3.390 | 1.017 | 0.339 | - |
| 18:00 | - | - | - | - | 14.388 | 8.993 | 0.719 | 1.799 | 1.439 | 0.719 | 0.719 | 0.360 |
| 19:00 | - | 0.334 | 0.334 | - | 20.067 | 15.719 | - | 2.007 | 1.338 | 1.003 | - | - |
| 20:00 | - | - | 0.353 | 0.707 | 25.795 | 15.194 | 1.413 | 1.060 | 1.060 | - | 0.353 | - |
| 21:00 | - | - | 0.362 | 0.362 | 26.812 | 18.478 | 0.362 | 2.174 | 0.725 | 0.362 | 0.362 | - |
| 22:00 | - | - | - | 0.338 | 29.054 | 21.622 | 0.676 | 2.365 | 2.703 | 0.338 | - | - |
| 23:00 | - | - | 0.356 | 0.356 | 28.470 | 29.181 | 0.712 | 2.491 | - | - | - | - |
| Mean | - | 0.436 | 0.073 | 0.115 | 15.243 | 14.509 | 0.573 | 2.108 | 4.576 | 1.692 | 0.469 | 0.215 |

In general, breezes are characteristical for coastal zones. Solar radiation is absorbed by the land and the water and is stored in the form of the thermal energy. The difference between the physical properties of land and water cause: the land to radiate (lose) the heat in form of IR waves faster than the water. As well as in contrast the water, the land needs less time to be heated by the solar radiation. The difference in physical properties described above result in creation of the temperature gradient between the water and the land surfaces, more accurately the air masses over the water and terrestrial surfaces. This temperature gradient is the main reason for the development of Breeze phenomenon. The cold air mass has higher pressure than the warm air mass. Therefore, gradient wind (breeze) blows, from land to sea, or from sea to land, depending on the location of the cold air mass and high pressure area. The cold air mass has a higher pressure lapse rate than warm air mass. Therefor, vertical pressure gradient in the cold air mass is always higher than in the warm air mass. At a certain height meteorological conditions are such, that the pressure is higher in the warm air mass than it is in the cold air mass. At this height the air mass begins to move against the ground

wind direction. There is a circulation of the air mass established in the surface layer up to 3000 ft as it is shown in Figure # 1.

*Drawing # 1 Directions of land and sea breezes in the day-night period*




Temperature gradient defines how far the breeze penetrates into the ground (in the water) which is defined by the amount of direct radiation, solar radiation absorbed by the Earth and to some extent the ogorography. In the case of the sea (land) breeze, the invading air mass is heated from the terrestrial (water) surface and begins the convection process, due to which the air masses

are cooled down, saturated and the clouds are formed in the convection zone, as shown in the picture.

## მოდელი N

მოდელი N შექმნილია მხოლოდ ბათუმის საერთაშორისო აეროპორტისთვის (UGSB).

მოდელ N-ში წლის თითოეული თვის და დროის მიხედვით გაანალიზებულია ბათუმის საერთაშორისო აეროპორტის ტერიტორიაზე არსებული ზღვისა და ხმელეთის ბრიზები. იგი აღწერს 8-15 კვანძამდე სიჩქარის მქონე ქარების მოხდენის სიხშირეს 30 გრადუსიანი მიმართულების ინტერვალით, უფრო ზუსტად კი კლიმატოლოგიური ცხრილის თითოეულ უჯრაში მოცემულია კონკრეტულ დროს 8-დან 15 კვანძამდე ქარის სიჩქარეების მოხდენის ხვედრითი წილი ამ დროში არსებული დაკვირვებების საერთო რაოდენობასთან მიმართებაში.

კლიმატოლოგიურ ცხრილებში ნათლად ჩანს თვეების და დროის მიხედვით როგორ იცვლება ზღვისა და ხმელეთის ბრიზების მიმართულებები, დაბერვის ინტენსივობა და ბრიზის გადასვლის (ხმელეთი-ზღვა და პირიქით) პერიოდები. ბათუმის საერთაშორისო აეროპორტი არ გამოირჩევა ძლიერი ბრიზული ქარებით, ბრიზების საშუალო სიჩქარე უპირატესად აღწევს მაქსიმუმ 15 კვანძს. სწორედ აქედან გამომდინარე მოდელი D -დან გამოყოფილ იქნა 15 კვანძამდე სიჩქარის ქარები ანუ ზღვისა და ხმელეთის ბრიზები. ავიაციისთვის (აფრენა/დაფრენისთვის) უსაფრთხოების ასპექტიდან გამომდინარე კრიტიკულად მივიჩნიე 8-15 (>7 და <=15) კვანძამდე ქარის სიჩქარე და სწორედ ასეთი სიჩქარის მქონე ქარებზე ჩავატარე ანალიზი[23]. ანალიზი ჩატარდა ბათუმის აეროპორტში ფრონტალური პროცესების გამორიცხვის დაშვებით.

მაგალითისთვის განვიხილოთ ბათუმის სექტემბრის თვის ბრიზების კლიმატოლოგიური ცხრილი. ღია ყავისფერი ფერით აღნიშულია ხმელეთის ბრიზები, ხოლო ღია ცისფრით ზღვის ბრიზები. როგორც ცხრილიდან ჩანს ხმელეთის ბრიზების მიმართულება მერყეობს $110^0$-$160^0$ გრადუსებს შორის (15, 24% და 14,51%). როგორც ცხრილიდან ჩანს ხმელეთის ბრიზები, ანუ ხმელეთიდან ზღვისკენ 8-15 კვანძის მქონე ქარი უბერავს 00:00 (UTC) დროიდან დაწყებული, პიკს აღწევს 05:00 საათზე (26,25% and 33,56%). 07:00-დან 08 საათამდე შესაძლებელია არსებობდეს ასაფრენ დასაფრენი ზოლის გასწვრივ ჰორიზონტალური ქარის წანაცვლება, რადგან ხდება ხმელეთის ბრიზების შეცვლა ზღვის ბრიზით, ქარი რადიკალურად იცვლის მიმართულებას. 08:00 (UTC) საათზე ბათუმის აეროპორტში ბატონდება ზღვის ბრიზი, რომლის მიმართულება მერყეობს $200^0$ – $280^0$ გრადუსებს შორის (პროცენტული მაჩვენებლები თითოეული მიმრთულების მიმართ შესაბამისად შეადგენს 2,11%, 4,58%, 1,7%). 17:00 ხდება ზღვის ბრიზების ჩანაცვლება ხმელეთის ბრიზით ამ პერიოდშიც ადგილი აქვს ხოლმე ქარის ჰოზონტალურ წანაცვლებას, ანუ ასაფრენ დასაფრენი ზოლის გასწვრის უბერავს სხვადახვა მიმართულების ქარი.18:00 საათისთვის ისევ ბატონდება ხმელეთის ბრიზი და უბერავს $110^0$-$160^0$ გრადუსამდე მიმართულების ქარი, რომელიც გრძელდება მომდევნო დღის 07:00 საათამდე. ქარის წანაცვლება, რომელსაც ადგილი აქვს (არასინოპტიკური მასშტაბის პროცესების დროს) ადგილობრივი პროცესების დროს, არამნიშვნელოვანია, რადგან ანალიზი დაფუძნებულია 15 კვანძამდე ქარის სიჩქარეებზე,

[23] მოგეხსენებათ საფრენოსნო ხომალდი (სხ) ფრინდება და ჯდება ქარის მიმართულების საწინააღმდეგო მიმართულებით, რათა სხ-ის გამწევი ძალა გაიზარდოს აფრენისას და დამატებით დაფრენისას შემცირდეს სხ-ის გარბენის მანძილი.

ხოლო ICAO-ს დოკუმენტის მიხედვით 15 კვანძამდე ქარის სიჩქარის დროს არსებული ქარის წანაცვლება, ფრენების უსაფრთხოების ასპექტიდან გამომდინარე არამნიშვნელოვნად ითვლება (ყურადსაღებია საფრენოსნო ხომალდის ტიპი).[24]

*ცხრილი #1*

მოდელი N-ის სექტემბრის თვის კლიმატოლოგიური ცხრილი

| FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | - | - | 0.364 | 28.000 | 27.273 | 0.727 | 1.818 | 1.455 | - | 0.364 | 0.364 |
| 1:00 | - | - | - | 0.337 | 27.273 | 25.926 | 1.684 | 1.347 | 0.673 | 1.010 | 0.337 | - |
| 2:00 | - | - | - | 0.730 | 29.197 | 30.657 | 0.730 | 0.730 | 0.365 | 0.365 | 0.365 | 0.730 |
| 3:00 | - | 0.355 | - | - | 28.369 | 27.660 | - | 2.128 | 0.709 | 1.773 | - | - |
| 4:00 | - | 0.337 | - | 1.010 | 32.323 | 25.926 | 1.010 | 1.347 | 0.673 | - | 0.673 | - |
| 5:00 | - | - | - | 0.664 | 26.246 | 33.555 | 0.664 | 1.329 | 0.997 | 0.664 | - | - |
| 6:00 | - | - | - | 0.336 | 19.463 | 26.510 | 0.671 | 2.685 | 1.007 | 0.336 | - | - |
| 7:00 | - | 0.338 | - | 0.676 | 8.784 | 11.149 | 0.676 | 3.041 | 5.068 | 1.689 | 0.676 | 0.338 |
| 8:00 | - | 1.342 | - | - | 3.020 | 2.685 | 0.336 | 4.027 | 10.067 | 1.678 | 0.336 | 0.336 |
| 9:00 | - | 1.347 | - | - | 1.347 | 2.020 | - | 1.010 | 10.438 | 3.367 | 1.010 | 0.337 |
| 10:00 | - | 2.365 | 0.338 | 0.338 | 2.365 | 1.014 | 1.014 | 2.365 | 14.865 | 4.392 | 0.676 | 0.338 |
| 11:00 | - | 1.351 | - | 0.338 | - | 3.041 | 0.338 | 2.027 | 13.514 | 6.081 | 2.027 | - |
| 12:00 | - | 1.003 | - | - | 0.669 | 1.672 | 0.334 | 2.676 | 12.709 | 5.017 | 0.669 | 0.334 |
| 13:00 | - | 1.342 | - | - | 1.342 | 2.685 | - | 2.349 | 9.396 | 4.027 | 0.671 | 1.007 |
| 14:00 | - | 0.339 | - | - | 1.356 | 2.373 | 0.678 | 3.390 | 7.119 | 3.390 | 0.339 | 0.339 |
| 15:00 | - | - | - | - | 2.712 | 3.390 | 0.678 | 3.051 | 5.763 | 1.695 | 0.678 | 0.339 |
| 16:00 | - | - | - | - | 4.027 | 3.691 | - | 1.678 | 4.362 | 1.678 | 0.671 | 0.336 |
| 17:00 | - | - | - | - | 4.746 | 7.797 | 0.339 | 1.695 | 3.390 | 1.017 | 0.339 | - |
| 18:00 | - | - | - | - | 14.388 | 8.993 | 0.719 | 1.799 | 1.439 | 0.719 | 0.719 | 0.360 |
| 19:00 | - | 0.334 | 0.334 | - | 20.067 | 15.719 | - | 2.007 | 1.338 | 1.003 | - | - |
| 20:00 | - | - | 0.353 | 0.707 | 25.795 | 15.194 | 1.413 | 1.060 | 1.060 | - | 0.353 | - |
| 21:00 | - | - | 0.362 | 0.362 | 26.812 | 18.478 | 0.362 | 2.174 | 0.725 | 0.362 | 0.362 | - |
| 22:00 | - | - | - | 0.338 | 29.054 | 21.622 | 0.676 | 2.365 | 2.703 | 0.338 | - | - |
| 23:00 | - | - | 0.356 | 0.356 | 28.470 | 29.181 | 0.712 | 2.491 | - | - | - | - |
| Mean | - | 0.436 | 0.073 | 0.115 | 15.243 | 14.509 | 0.573 | 2.108 | 4.576 | 1.692 | 0.469 | 0.215 |

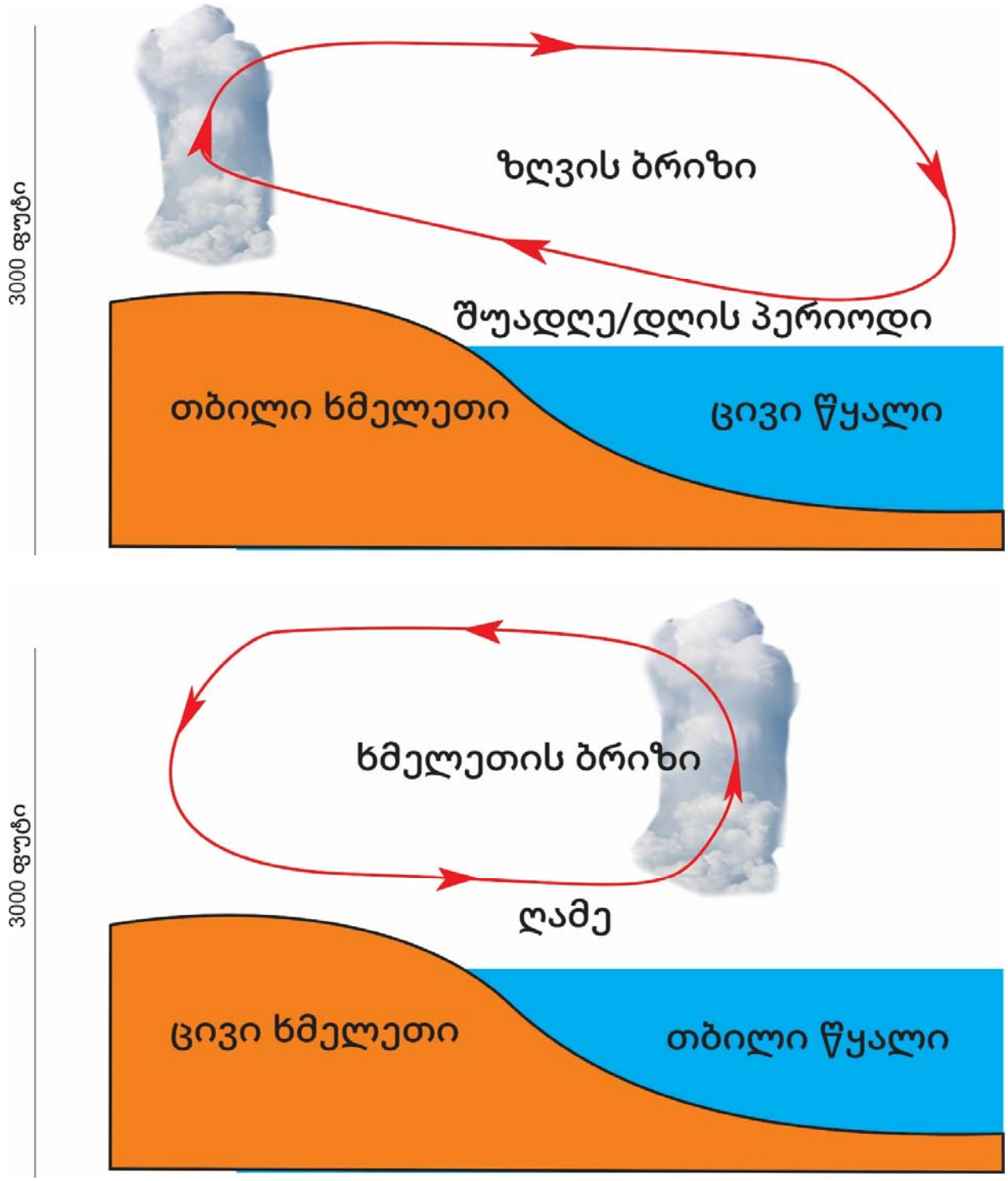
ბრიზები ზოგადად დამახასიათებელია სანაპირო ზონებისთვის. მზის რადიციას ხმელეთი და წყალიც იღებს და ინახავს სითბური ენერგიის სახით. ხმელეთისა და წყლის ფიზიკური თვისებების განსხვავებით განპირობებულია, რომ ხმელეთი უფრო მოკლე დროში გასცემს (კარგავს) სითბურ ენერგიას, გამოსხივებული ინფრაწითელი სპექტრული დიაპაზონის ტალღების სახით, ვიდრე წყალი, და ასევე წყლისაგან განსხვავებით, ხმელეთს უფრო ნაკლები დრო ჭირდება გასათბობად, მზის რადიაციის ზემოქმედების შედეგად. სწორედ ასეთი განსხვავებული ფიზიკური თვისებები გამო, დროის კონკრეტულ მომენტში იქმნება ტემპერატურული გრადიენტი წყლის ზედაპირსა და ხმელეთს შორის, უფრო ზუსტად კი წყლის ზედაპირზე არსებულ ჰაერის მასასა და ხმელეთის ზედაპირზე არსებულ ჰაერის მასას შორის. სწორედ ეს ტემპერატურული გრადიენტია წინაპირობა იმისა, რათა განვითარდეს ბრიზის ფენომენი. ცივი ჰაერის მასა გამოირჩევა უფრო მაღალი წნევით, ვიდრე თბილი ჰაერის მასა. აქედან გამომდინარე უბერავს გრადიენტული ქარი (ბრიზი), ხან ხმელეთიდან ზღვისკენ, ხანაც ზღვიდან ხმელეთისკენ, იმისდა მიხედვით სად მდებარეობს ცივი ჰაერის მასა და შესაბამისად მაღალი წნევის არე. ცივი ჰაერის მასა, ერთეული სიმაღლის მიხედვით წნევის ვარდნის უფრო მაღალი გრადიენტით ხასიათდება, ვიდრე თბილი ჰაერის მასა, ანუ ცივ ჰაერის მასაში წნევის ვერტიკალური გრადიენტი ყოველთვის უფრო მაღალია ვიდრე თბილ ჰაერის მასაში, აქედან გამომდინარე გარკვეულ სიმაღლეზე წარმოიქმნება მეტეოროლოგიური პირობა, როცა წნევა თბილ ჰაერის მასაში უფრო მეტია ვიდრე ცივში და ამ სიმაღლეზე ჰაერის მასა, მიწისპირა ქარის საწინააღმდეგოდ იწყებს გადაადგილებას. მიწისპირა

[24] ICAO DOC 9817 AN/449, "Manual of low level wind shear", first edition 2005 Year. (ჩემი აზრით ეს კრიტერიუმი დამოკიდებულია საფრენმოსნო ხომალდის ტიპზე და ცალსად „არამნიშვნელოვანი" დეფინიციის მინიჭება არამართებულია)

ფენაში, დაახლოებით 3000 ფუტ სიმაღლემდე, ადგილი აქვს ჰაერის მასის ისეთ ცირკულაციას, როგორიც ნაჩვენებია ნახატ #1-ზე.

*ნახატი #1*

ხმელეთისა და ზღვის ბრიზების მოძრაობა დღე-ღამის განმავლობაში



რამდენად ღრმად შეიჭრება ხმელეთზე (წყალში) ბრიზი დამოკიდებულია ტემპერატურულ გრადიენტზე, რაც თავის მხრივ დამოკიდებულია დედამიწის მიერ მიღებული მზის პირდაპირი რადიაციის ოდენობაზე და გარკვეულწილად ოროგრაფიაზეც. მნიშვნელოვანი ფაქტია, რომ ზღვის (ხმელეთის) ბრიზის შემთხვევაში, შემოჭრილი ჰაერის მასა თბება ხმელეთის (ზღვის) ზედაპირით და იწყება კონვექციური პროცესი, რაც იწვევს ჰაერის მასის გადაცივებას და კონვექციის ზონაში ღრუბლების წარმოქმნას, ისე როგორც ნაჩვენებია ნახატზე.

## Model O

The Climatological tables (UGTB, UGKO and UGSB) for **Model N**.

The Model L. climatological table shows annual rainfall comparison between Tbilisi, Kutaisi and Batumi international airports the period from 2011 to 2016 (UGTB, UGKO, UGSB).

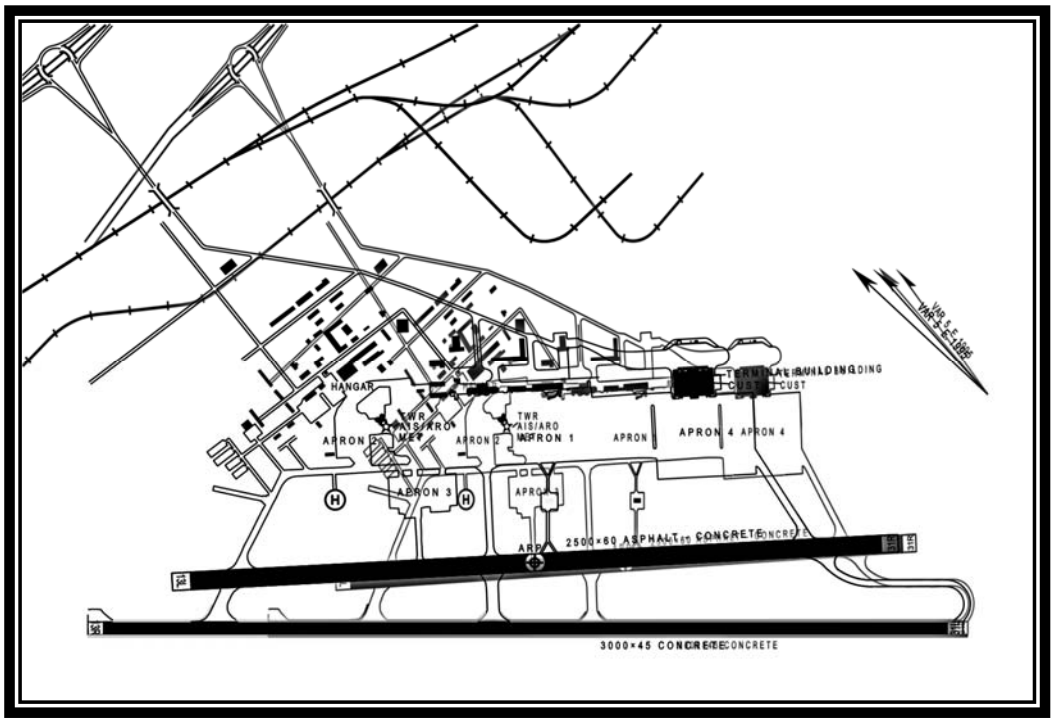
| Year | UGTB Rainfall (mm) | UGKO Rainfall (mm) | UGSB Rainfall (mm) |
|---|---|---|---|
| 2011 | | | |
| …… | | | |

Model O also includes a chart based on the table.

## Notes:

1. Before December 2013, METARs for Tbilisi, Kutaisi and Batumi International Airports were issued in accordance with the ICAO standards and recommendations set out in the ICAO Annex 3. In accordance with ICAO Annex 3, 4.3.6 Reporting, 4.3.6.3 (b), when significant meteorological conditions occur METARs shall contain the RVR maximum and minimum values. In the course of the “Summary” preparation, the minimum RVR values were only used.
2. According to ICAO, Annex 3 (“Meteorological Service for International Air Navigation”), Appendix 6, Article 5, Points 5.1.3 - strong surface wind and gust is counted from the speed above 30 knots.
3. According to ICAO, Annex 3 (“Meteorological Service for International Air Navigation”), Appendix 3, Article 4, Points 4.1.5.2 c) – “variations from the mean wind speed (gusts) during the past 10 minutes shall be reported when the maximum wind speed exceeds the mean speed by: … 2) 5 m/s (10 kt) or more otherwise.
4. MIFG – SHALOW FOG – when the vertical extension of fog on a runway is less than 2 meters.
5. VCFG – when fog is not observed on a runway, but exists in aerodrome zone.
6. “–“ symbol in tables is used if there were no occurrances.
7. „0.00“ –information means that occurances of the phenomena are very rare and their percentage is expressed in the third decimal place values.

# TBILISI INTERNATIONAL AIRPORT (UGTB)




Tbilisi International Airport elevation is 495m above sea level. There is one runway with two touchdown zones (TDZ13/31). The area where it is located is a transition zone from the outer Kakheti upland to the plains of Kvemo-Kartli, adjoining the left side of the steppe of Gardabani. The northern and northeast parts of the airport territory are bounded by rolling hills, which belong to Samgori valley. Surrounding terrain features a complex topographic relief with alternating or merging rolling hills and mountain ridges.

Tbilisi lies in the region where moderately warm steppe climate gradually changes into moderately subtropical. Circular processes developing in this area are typical of the subtropical and moderate climatic zones. The intruding arctic, polar and tropical air masses are connected with the Western, Eastern and Southern Circular Processes.

The main direction of the winds in this region is determined by the direction of the river Mtkvari gorge. Therefore, the north-west wind prevails and its speed can be as high as 50 knots and over. This direction strong wind blows when a cold front moves from west or north-west. During this process, the air temperature in Tbilisi drops and cloudiness increases; atmospheric precipitation and strong winds are also experienced; rainfall, though, continues only for a short period of time, whereas the wind keeps strong for a relatively long time.

In the course of the atmospheric circulation process with air masses entering Georgia from the east, that is from the Caspian Sea, a relatively weak southeast wind is observed in Tbilisi. Cloudiness increases and the frequency of occurrence of low-height clouds rises (See Models B, C, D of Tbilisi (January, February, March), visibility reduces, and fog is formed. These weather conditions can last for several days. During the spring and summer (see Model H, weather phenomena by season) seasons the most dangerous weather phenomena in the area of Tbilisi Airport are thunderstorms and hail. Likelihood of their formation is especially high during the “Undulatory Invasion from the South”.

**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES

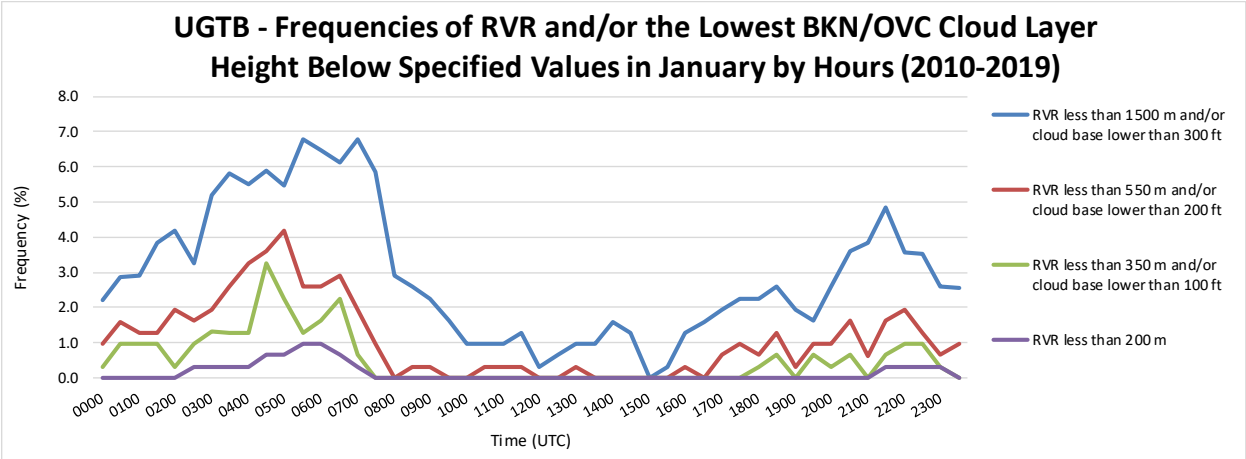
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
|---|---|---|---|---|---|---|---|---|---|
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | 0.32 | 0.96 | 2.23 | 1.59 | 3.82 | 7.96 | 23.25 |
| 0030 | - | - | 0.96 | 1.60 | 2.88 | 2.56 | 6.09 | 9.62 | 23.40 |
| 0100 | - | - | 0.96 | 1.29 | 2.89 | 3.54 | 6.43 | 10.61 | 24.44 |
| 0130 | - | - | 0.96 | 1.29 | 3.86 | 3.22 | 6.11 | 9.32 | 22.83 |
| 0200 | - | - | 0.32 | 1.93 | 4.18 | 3.54 | 6.75 | 9.97 | 23.79 |
| 0230 | - | 0.33 | 0.98 | 1.63 | 3.26 | 4.89 | 6.84 | 10.42 | 24.10 |
| 0300 | - | 0.33 | 1.30 | 1.95 | 5.21 | 4.89 | 7.49 | 10.42 | 22.80 |
| 0330 | - | 0.32 | 1.29 | 2.59 | 5.83 | 5.18 | 6.47 | 11.33 | 22.98 |
| 0400 | - | 0.32 | 1.30 | 3.25 | 5.52 | 5.52 | 6.82 | 10.06 | 22.40 |
| 0430 | - | 0.65 | 3.27 | 3.59 | 5.88 | 5.88 | 7.84 | 14.38 | 27.78 |
| 0500 | - | 0.65 | 2.26 | 4.19 | 5.48 | 6.13 | 8.71 | 14.52 | 27.74 |
| 0530 | - | 0.97 | 1.29 | 2.58 | 6.77 | 6.13 | 10.32 | 14.84 | 29.68 |
| 0600 | - | 0.97 | 1.62 | 2.59 | 6.47 | 5.83 | 9.39 | 12.94 | 27.83 |
| 0630 | - | 0.64 | 2.25 | 2.89 | 6.11 | 4.18 | 8.36 | 13.18 | 27.33 |
| 0700 | - | 0.32 | 0.65 | 1.94 | 6.80 | 3.56 | 8.74 | 11.97 | 28.16 |
| 0730 | - | - | - | 0.97 | 5.84 | 2.27 | 8.12 | 12.99 | 25.97 |
| 0800 | - | - | - | - | 2.90 | 0.97 | 5.81 | 11.61 | 24.84 |
| 0830 | - | - | - | 0.32 | 2.60 | 0.65 | 5.19 | 9.09 | 24.68 |
| 0900 | - | - | - | 0.32 | 2.27 | 0.97 | 3.88 | 8.09 | 22.33 |
| 0930 | - | - | - | - | 1.62 | 0.97 | 3.25 | 8.44 | 20.78 |
| 1000 | - | - | - | - | 0.97 | 0.65 | 1.95 | 7.79 | 19.81 |
| 1030 | - | - | - | 0.33 | 0.98 | 0.33 | 1.30 | 7.82 | 20.52 |
| 1100 | - | - | - | 0.32 | 0.96 | 0.32 | 0.96 | 7.37 | 20.19 |
| 1130 | - | - | - | 0.32 | 1.29 | 0.65 | 1.61 | 5.48 | 19.68 |
| 1200 | - | - | - | - | 0.32 | 0.32 | 1.29 | 5.14 | 18.33 |
| 1230 | - | - | - | - | 0.65 | - | 1.29 | 5.50 | 18.77 |
| 1300 | - | - | - | 0.33 | 0.98 | 0.33 | 2.28 | 5.21 | 19.54 |
| 1330 | - | - | - | - | 0.97 | 0.32 | 1.95 | 5.19 | 20.78 |
| 1400 | - | - | - | - | 1.61 | - | 2.25 | 6.11 | 22.51 |
| 1430 | - | - | - | - | 1.29 | - | 1.94 | 4.53 | 21.36 |
| 1500 | - | - | - | - | - | - | 1.94 | 4.85 | 18.77 |
| 1530 | - | - | - | - | 0.32 | - | 2.27 | 5.18 | 18.45 |
| 1600 | - | - | - | 0.32 | 1.29 | 0.32 | 2.59 | 5.50 | 18.45 |

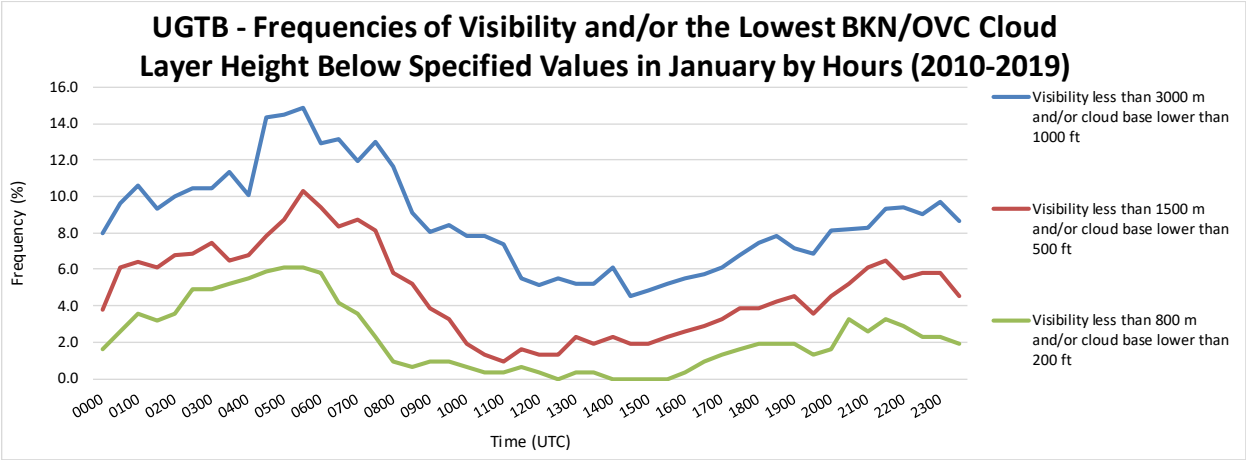
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | - | 1.60 | 0.96 | 2.88 | 5.77 | 19.23 |
| 1700 | - | - | - | 0.65 | 1.94 | 1.29 | 3.23 | 6.13 | 20.32 |
| 1730 | - | - | - | 0.97 | 2.27 | 1.62 | 3.88 | 6.80 | 20.06 |
| 1800 | - | - | 0.32 | 0.65 | 2.27 | 1.94 | 3.88 | 7.44 | 19.74 |
| 1830 | - | - | 0.65 | 1.30 | 2.60 | 1.95 | 4.22 | 7.79 | 20.78 |
| 1900 | - | - | - | 0.32 | 1.94 | 1.94 | 4.53 | 7.12 | 21.04 |
| 1930 | - | - | 0.65 | 0.98 | 1.63 | 1.30 | 3.58 | 6.84 | 21.82 |
| 2000 | - | - | 0.33 | 0.98 | 2.61 | 1.63 | 4.56 | 8.14 | 22.15 |
| 2030 | - | - | 0.66 | 1.64 | 3.61 | 3.28 | 5.25 | 8.20 | 21.64 |
| 2100 | - | - | - | 0.64 | 3.83 | 2.56 | 6.07 | 8.31 | 22.36 |
| 2130 | - | 0.32 | 0.65 | 1.61 | 4.84 | 3.23 | 6.45 | 9.35 | 22.26 |
| 2200 | - | 0.32 | 0.97 | 1.94 | 3.56 | 2.91 | 5.50 | 9.39 | 22.65 |
| 2230 | - | 0.32 | 0.96 | 1.29 | 3.54 | 2.25 | 5.79 | 9.00 | 23.79 |
| 2300 | - | 0.32 | 0.32 | 0.65 | 2.59 | 2.27 | 5.83 | 9.71 | 22.98 |
| 2330 | - | - | - | 0.96 | 2.57 | 1.93 | 4.50 | 8.68 | 22.83 |
| TOTAL | - | 0.14 | 0.53 | 1.08 | 2.95 | 2.22 | 4.80 | 8.67 | 22.46 |

In January, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 200 meters, based on Ten-year observation, constitutes 0.14% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 4.80% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

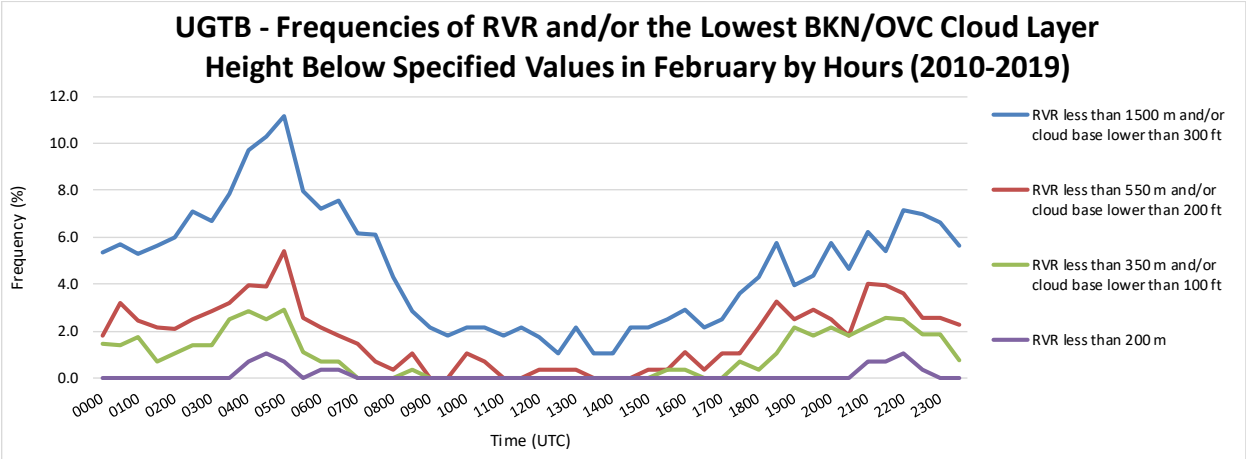
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | 1.43 | 1.79 | 5.38 | 3.58 | 11.47 | 17.20 | 33.69 |
| 0030 | - | - | 1.42 | 3.20 | 5.69 | 4.27 | 11.74 | 17.08 | 34.16 |
| 0100 | - | - | 1.76 | 2.46 | 5.28 | 3.52 | 9.86 | 14.44 | 32.39 |
| 0130 | - | - | 0.71 | 2.13 | 5.67 | 3.90 | 8.87 | 17.38 | 34.40 |
| 0200 | - | - | 1.06 | 2.12 | 6.01 | 2.47 | 9.19 | 16.61 | 32.86 |
| 0230 | - | - | 1.42 | 2.49 | 7.12 | 4.27 | 10.68 | 19.22 | 33.45 |
| 0300 | - | - | 1.41 | 2.83 | 6.71 | 3.53 | 10.25 | 17.31 | 34.98 |
| 0330 | - | - | 2.49 | 3.20 | 7.83 | 3.91 | 12.10 | 18.86 | 34.16 |
| 0400 | - | 0.72 | 2.88 | 3.96 | 9.71 | 4.68 | 13.67 | 20.14 | 43.88 |
| 0430 | - | 1.07 | 2.49 | 3.91 | 10.32 | 4.63 | 13.52 | 20.28 | 42.35 |
| 0500 | - | 0.72 | 2.89 | 5.42 | 11.19 | 5.78 | 15.16 | 22.02 | 43.32 |
| 0530 | - | - | 1.09 | 2.54 | 7.97 | 3.62 | 12.68 | 21.01 | 43.84 |
| 0600 | - | 0.36 | 0.72 | 2.17 | 7.22 | 3.61 | 11.19 | 19.49 | 40.43 |
| 0630 | - | 0.36 | 0.72 | 1.81 | 7.58 | 3.25 | 11.55 | 18.77 | 40.43 |
| 0700 | - | - | - | 1.45 | 6.16 | 2.17 | 9.78 | 17.39 | 39.13 |
| 0730 | - | - | - | 0.72 | 6.14 | 2.89 | 9.03 | 15.16 | 35.02 |
| 0800 | - | - | - | 0.36 | 4.29 | 1.79 | 5.71 | 13.93 | 32.50 |
| 0830 | - | - | 0.36 | 1.07 | 2.85 | 1.07 | 6.05 | 14.59 | 33.45 |
| 0900 | - | - | - | - | 2.14 | - | 4.64 | 12.14 | 32.86 |
| 0930 | - | - | - | - | 1.78 | 0.36 | 3.91 | 9.96 | 27.40 |
| 1000 | - | - | - | 1.07 | 2.14 | 1.43 | 3.93 | 8.93 | 27.86 |
| 1030 | - | - | - | 0.72 | 2.17 | 1.08 | 3.97 | 8.66 | 24.91 |
| 1100 | - | - | - | - | 1.79 | 0.36 | 3.93 | 7.86 | 22.86 |
| 1130 | - | - | - | - | 2.13 | 0.71 | 3.19 | 6.38 | 21.99 |
| 1200 | - | - | - | 0.35 | 1.77 | - | 3.90 | 7.80 | 21.28 |
| 1230 | - | - | - | 0.36 | 1.08 | 0.72 | 3.96 | 6.12 | 20.86 |
| 1300 | - | - | - | 0.35 | 2.13 | 0.35 | 3.55 | 6.74 | 19.86 |
| 1330 | - | - | - | - | 1.07 | - | 3.21 | 6.07 | 18.93 |
| 1400 | - | - | - | - | 1.07 | 0.36 | 4.29 | 7.86 | 20.36 |
| 1430 | - | - | - | - | 2.16 | - | 4.32 | 7.19 | 20.50 |
| 1500 | - | - | - | 0.36 | 2.17 | 0.36 | 2.53 | 6.14 | 17.69 |
| 1530 | - | - | 0.36 | 0.36 | 2.50 | 1.07 | 2.86 | 5.71 | 16.79 |
| 1600 | - | - | 0.36 | 1.08 | 2.89 | 1.81 | 3.61 | 7.22 | 16.61 |

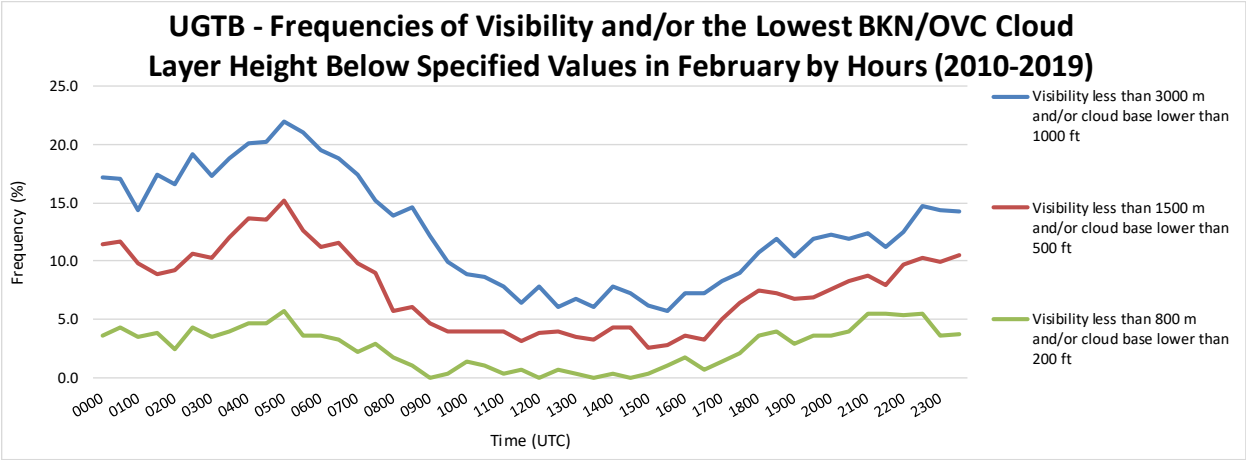
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | 0.36 | 2.17 | 0.72 | 3.26 | 7.25 | 18.48 |
| 1700 | - | - | - | 1.08 | 2.52 | 1.44 | 5.04 | 8.27 | 19.06 |
| 1730 | - | - | 0.72 | 1.08 | 3.58 | 2.15 | 6.45 | 8.96 | 20.79 |
| 1800 | - | - | 0.36 | 2.15 | 4.30 | 3.58 | 7.53 | 10.75 | 22.22 |
| 1830 | - | - | 1.08 | 3.24 | 5.76 | 3.96 | 7.19 | 11.87 | 23.74 |
| 1900 | - | - | 2.16 | 2.52 | 3.96 | 2.88 | 6.83 | 10.43 | 23.38 |
| 1930 | - | - | 1.81 | 2.90 | 4.35 | 3.62 | 6.88 | 11.96 | 23.55 |
| 2000 | - | - | 2.16 | 2.52 | 5.76 | 3.60 | 7.55 | 12.23 | 26.26 |
| 2030 | - | - | 1.80 | 1.80 | 4.68 | 3.96 | 8.27 | 11.87 | 26.26 |
| 2100 | - | 0.73 | 2.19 | 4.01 | 6.20 | 5.47 | 8.76 | 12.41 | 26.28 |
| 2130 | - | 0.72 | 2.54 | 3.99 | 5.43 | 5.43 | 7.97 | 11.23 | 29.35 |
| 2200 | - | 1.08 | 2.51 | 3.58 | 7.17 | 5.38 | 9.68 | 12.54 | 29.39 |
| 2230 | - | 0.37 | 1.84 | 2.57 | 6.99 | 5.51 | 10.29 | 14.71 | 28.68 |
| 2300 | - | - | 1.84 | 2.57 | 6.62 | 3.68 | 9.93 | 14.34 | 30.15 |
| 2330 | - | - | 0.75 | 2.25 | 5.62 | 3.75 | 10.49 | 14.23 | 29.59 |
| TOTAL | - | 0.13 | 0.94 | 1.77 | 4.73 | 2.63 | 7.59 | 12.68 | 28.59 |

In February, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 200 meters, based on Ten-year observation, constitutes 0.13% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 7.59% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES

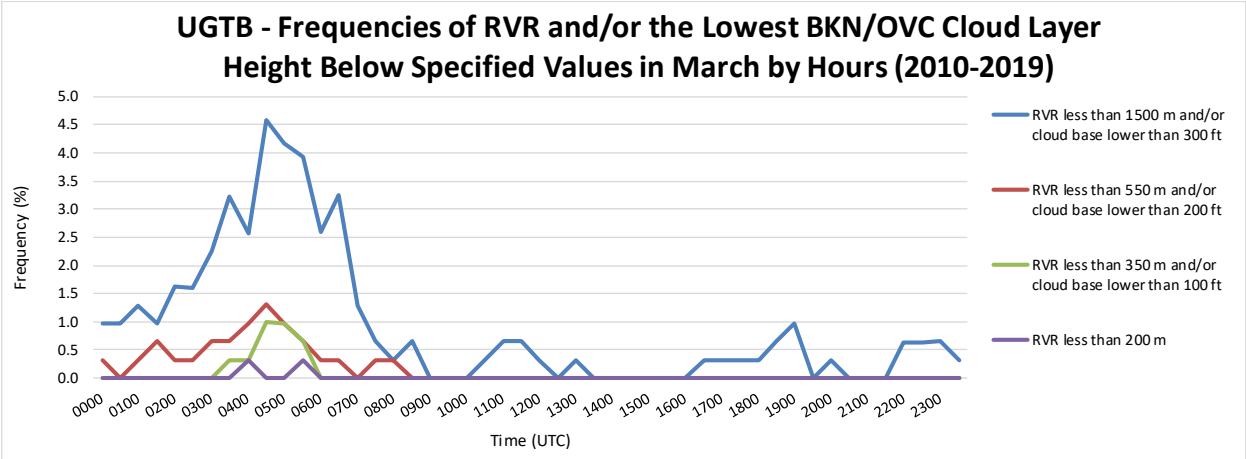
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
|---|---|---|---|---|---|---|---|---|---|
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | 0.32 | 0.97 | 0.32 | 0.97 | 4.53 | 13.59 |
| 0030 | - | - | - | - | 0.97 | 0.32 | 1.94 | 4.85 | 14.24 |
| 0100 | - | - | - | 0.32 | 1.29 | 0.97 | 2.58 | 5.16 | 14.19 |
| 0130 | - | - | - | 0.65 | 0.98 | 0.65 | 2.28 | 4.89 | 14.01 |
| 0200 | - | - | - | 0.32 | 1.62 | 0.65 | 2.27 | 4.85 | 13.92 |
| 0230 | - | - | - | 0.32 | 1.61 | 0.65 | 2.90 | 5.48 | 15.48 |
| 0300 | - | - | - | 0.65 | 2.27 | 1.29 | 3.56 | 7.12 | 18.45 |
| 0330 | - | - | 0.32 | 0.65 | 3.23 | 0.97 | 3.87 | 8.39 | 23.55 |
| 0400 | - | 0.32 | 0.32 | 0.96 | 2.57 | 1.29 | 4.18 | 10.29 | 24.44 |
| 0430 | - | - | 0.98 | 1.31 | 4.59 | 1.97 | 5.90 | 9.51 | 22.95 |
| 0500 | - | - | 0.96 | 0.96 | 4.18 | 1.29 | 4.50 | 9.65 | 22.51 |
| 0530 | - | 0.33 | 0.65 | 0.65 | 3.92 | 1.63 | 3.92 | 10.46 | 24.18 |
| 0600 | - | - | - | 0.32 | 2.60 | 0.65 | 4.55 | 9.74 | 19.48 |
| 0630 | - | - | - | 0.33 | 3.26 | 0.33 | 5.21 | 11.07 | 19.54 |
| 0700 | - | - | - | - | 1.29 | - | 3.87 | 8.39 | 17.42 |
| 0730 | - | - | - | 0.33 | 0.66 | 0.33 | 2.62 | 6.56 | 16.07 |
| 0800 | - | - | - | 0.33 | 0.33 | 0.33 | 1.63 | 3.92 | 14.71 |
| 0830 | - | - | - | - | 0.65 | - | 1.62 | 4.87 | 13.64 |
| 0900 | - | - | - | - | - | - | 1.29 | 3.86 | 11.25 |
| 0930 | - | - | - | - | - | - | 1.62 | 3.57 | 10.39 |
| 1000 | - | - | - | - | - | - | 1.30 | 3.57 | 9.74 |
| 1030 | - | - | - | - | 0.33 | - | 0.98 | 3.59 | 9.15 |
| 1100 | - | - | - | - | 0.66 | - | 0.99 | 2.31 | 7.92 |
| 1130 | - | - | - | - | 0.65 | - | 1.29 | 2.27 | 8.09 |
| 1200 | - | - | - | - | 0.32 | - | 0.65 | 2.26 | 7.10 |
| 1230 | - | - | - | - | - | - | 0.32 | 2.27 | 8.09 |
| 1300 | - | - | - | - | 0.33 | - | 0.33 | 1.30 | 6.19 |
| 1330 | - | - | - | - | - | - | 0.65 | 1.95 | 7.47 |
| 1400 | - | - | - | - | - | - | 0.66 | 2.30 | 6.89 |
| 1430 | - | - | - | - | - | - | - | 1.97 | 5.90 |
| 1500 | - | - | - | - | - | - | 0.33 | 1.63 | 6.51 |
| 1530 | - | - | - | - | - | - | - | 2.59 | 6.80 |
| 1600 | - | - | - | - | - | - | - | 2.26 | 6.77 |

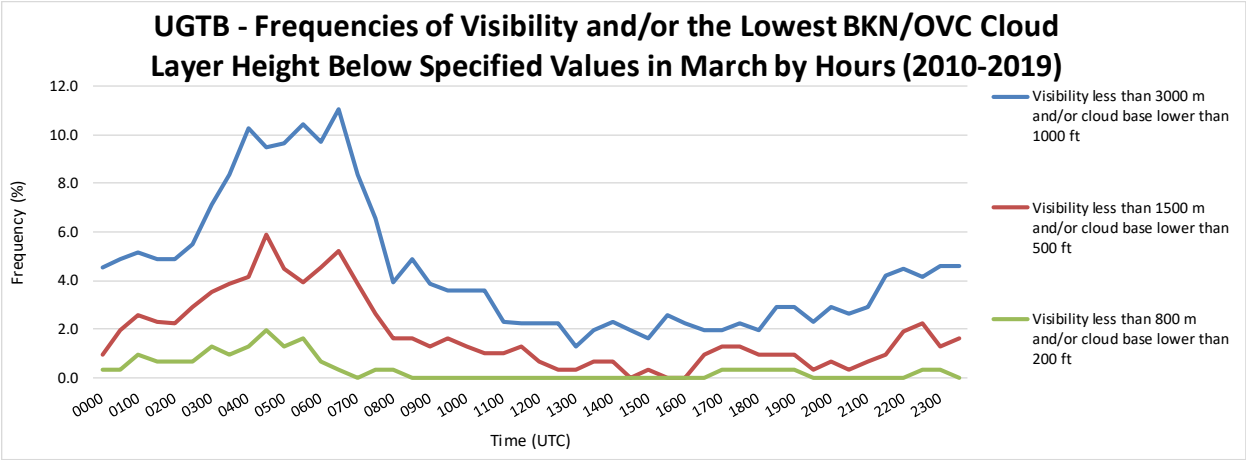
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | - | 0.32 | - | 0.97 | 1.94 | 6.80 |
| 1700 | - | - | - | - | 0.33 | 0.33 | 1.31 | 1.97 | 6.56 |
| 1730 | - | - | - | - | 0.32 | 0.32 | 1.29 | 2.27 | 7.12 |
| 1800 | - | - | - | - | 0.32 | 0.32 | 0.97 | 1.95 | 7.47 |
| 1830 | - | - | - | - | 0.65 | 0.32 | 0.97 | 2.92 | 7.79 |
| 1900 | - | - | - | - | 0.98 | 0.33 | 0.98 | 2.93 | 8.79 |
| 1930 | - | - | - | - | - | - | 0.33 | 2.29 | 8.82 |
| 2000 | - | - | - | - | 0.32 | - | 0.65 | 2.92 | 10.71 |
| 2030 | - | - | - | - | - | - | 0.33 | 2.61 | 11.76 |
| 2100 | - | - | - | - | - | - | 0.65 | 2.93 | 12.05 |
| 2130 | - | - | - | - | - | - | 0.97 | 4.21 | 12.30 |
| 2200 | - | - | - | - | 0.64 | - | 1.93 | 4.50 | 12.54 |
| 2230 | - | - | - | - | 0.64 | 0.32 | 2.25 | 4.18 | 13.18 |
| 2300 | - | - | - | - | 0.66 | 0.33 | 1.32 | 4.61 | 11.18 |
| 2330 | - | - | - | - | 0.33 | - | 1.63 | 4.58 | 12.42 |
| TOTAL | - | 0.01 | 0.07 | 0.18 | 0.93 | 0.33 | 1.78 | 4.47 | 12.30 |

In March, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 200 meters, based on Ten-year observation, constitutes 0.01% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 1.78% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES

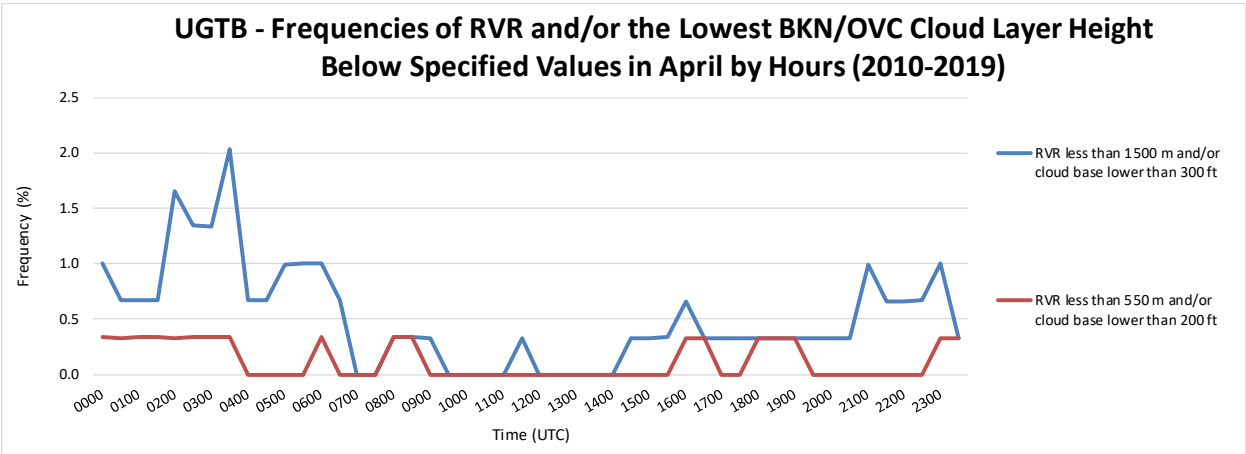
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
|---|---|---|---|---|---|---|---|---|---|
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | 0.34 | 0.34 | 1.01 | 0.34 | 1.34 | 1.68 | 9.40 |
| 0030 | - | - | - | 0.33 | 0.67 | 0.33 | 0.67 | 2.67 | 11.00 |
| 0100 | - | - | 0.34 | 0.34 | 0.67 | 0.34 | 1.01 | 2.35 | 10.40 |
| 0130 | - | - | - | 0.34 | 0.67 | 0.34 | 1.34 | 3.02 | 11.74 |
| 0200 | - | - | - | 0.33 | 1.65 | 0.99 | 1.98 | 3.63 | 12.21 |
| 0230 | - | - | - | 0.34 | 1.34 | 0.67 | 2.01 | 5.03 | 15.44 |
| 0300 | - | - | - | 0.33 | 1.34 | 0.67 | 1.67 | 4.68 | 16.72 |
| 0330 | - | - | - | 0.34 | 2.03 | 0.68 | 2.03 | 5.42 | 16.95 |
| 0400 | - | - | - | - | 0.67 | 0.34 | 2.01 | 3.69 | 14.77 |
| 0430 | - | - | - | - | 0.67 | - | 1.33 | 3.33 | 15.00 |
| 0500 | - | - | - | - | 0.99 | - | 2.32 | 4.30 | 13.91 |
| 0530 | - | - | - | - | 1.01 | - | 2.35 | 4.70 | 11.74 |
| 0600 | - | - | - | 0.34 | 1.01 | 0.34 | 2.35 | 5.70 | 12.75 |
| 0630 | - | - | - | - | 0.68 | - | 2.03 | 5.07 | 12.84 |
| 0700 | - | - | - | - | - | - | 0.67 | 3.34 | 12.37 |
| 0730 | - | - | - | - | - | - | 0.34 | 2.71 | 9.83 |
| 0800 | - | - | - | 0.34 | 0.34 | 0.34 | 1.01 | 3.38 | 9.12 |
| 0830 | - | - | - | 0.33 | 0.33 | 0.33 | 1.00 | 3.01 | 8.36 |
| 0900 | - | - | - | - | 0.33 | - | 0.67 | 3.00 | 9.00 |
| 0930 | - | - | - | - | - | - | 0.67 | 1.35 | 10.10 |
| 1000 | - | - | - | - | - | - | 1.68 | 2.35 | 8.39 |
| 1030 | - | - | - | - | - | - | 1.34 | 2.01 | 7.72 |
| 1100 | - | - | - | - | - | - | 0.33 | 1.00 | 6.67 |
| 1130 | - | - | - | - | 0.33 | - | 0.66 | 1.99 | 5.96 |
| 1200 | - | - | - | - | - | - | - | 1.35 | 3.70 |
| 1230 | - | - | - | - | - | - | - | 1.01 | 4.03 |
| 1300 | - | - | - | - | - | - | - | 1.00 | 4.67 |
| 1330 | - | - | - | - | - | - | 0.34 | 1.35 | 5.41 |
| 1400 | - | - | - | - | - | - | 0.33 | 1.33 | 5.00 |
| 1430 | - | - | - | - | 0.33 | - | 0.33 | 2.00 | 6.00 |
| 1500 | - | - | - | - | 0.33 | - | 0.66 | 1.97 | 4.93 |
| 1530 | - | - | - | - | 0.34 | - | 0.67 | 1.68 | 5.70 |
| 1600 | - | - | - | 0.33 | 0.66 | 0.33 | 1.00 | 1.66 | 3.99 |

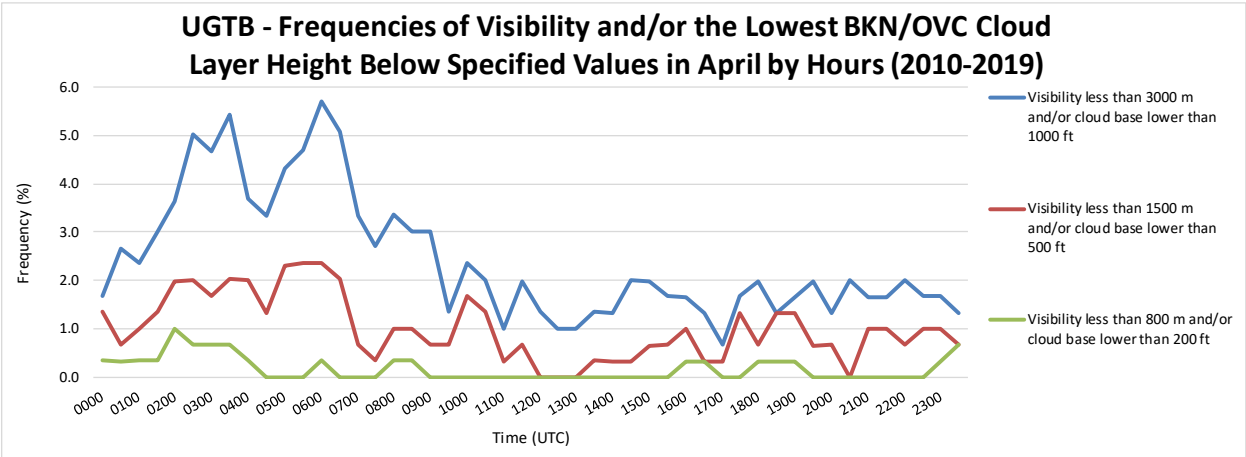
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | 0.33 | 0.33 | 0.33 | 0.33 | 1.33 | 3.65 |
| 1700 | - | - | - | - | 0.33 | - | 0.33 | 0.66 | 3.99 |
| 1730 | - | - | - | - | 0.33 | - | 1.33 | 1.67 | 5.33 |
| 1800 | - | - | - | 0.33 | 0.33 | 0.33 | 0.66 | 1.99 | 4.64 |
| 1830 | - | - | - | 0.33 | 0.33 | 0.33 | 1.33 | 1.33 | 5.65 |
| 1900 | - | - | - | 0.33 | 0.33 | 0.33 | 1.32 | 1.64 | 5.92 |
| 1930 | - | - | - | - | 0.33 | - | 0.66 | 1.98 | 6.60 |
| 2000 | - | - | - | - | 0.33 | - | 0.67 | 1.33 | 5.33 |
| 2030 | - | - | - | - | 0.33 | - | - | 2.00 | 5.33 |
| 2100 | - | - | - | - | 0.99 | - | 0.99 | 1.64 | 5.92 |
| 2130 | - | - | - | - | 0.66 | - | 0.99 | 1.66 | 7.28 |
| 2200 | - | - | - | - | 0.66 | - | 0.66 | 1.99 | 8.97 |
| 2230 | - | - | - | - | 0.67 | - | 1.00 | 1.67 | 8.33 |
| 2300 | - | - | 0.33 | 0.33 | 1.00 | 0.33 | 1.00 | 1.67 | 8.00 |
| 2330 | - | - | 0.33 | 0.33 | 0.33 | 0.67 | 0.67 | 1.33 | 8.00 |
| TOTAL | - | - | 0.03 | 0.13 | 0.51 | 0.17 | 1.00 | 2.43 | 8.51 |

In April, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters, based on Ten-year observation, constitutes 0.03% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 1.00% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES

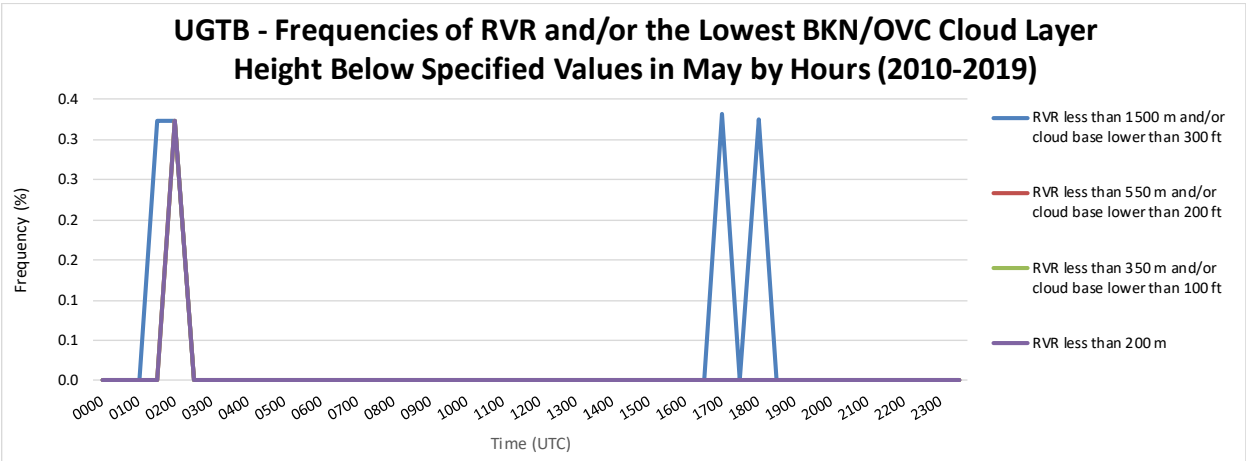
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
|---|---|---|---|---|---|---|---|---|---|
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | - | 1.65 |
| 0030 | - | - | - | - | - | - | - | - | 0.96 |
| 0100 | - | - | - | - | - | - | 0.32 | 0.32 | 2.58 |
| 0130 | - | - | - | - | 0.32 | 0.32 | 0.65 | 0.97 | 2.59 |
| 0200 | - | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.97 | 3.23 |
| 0230 | - | - | - | - | - | - | - | 0.32 | 4.43 |
| 0300 | - | - | - | - | - | - | - | - | 3.59 |
| 0330 | - | - | - | - | - | - | - | - | 4.52 |
| 0400 | - | - | - | - | - | - | - | - | 4.21 |
| 0430 | - | - | - | - | - | - | - | - | 4.58 |
| 0500 | - | - | - | - | - | - | - | 0.65 | 4.52 |
| 0530 | - | - | - | - | - | - | - | 0.65 | 4.87 |
| 0600 | - | - | - | - | - | - | - | - | 3.86 |
| 0630 | - | - | - | - | - | - | - | - | 2.59 |
| 0700 | - | - | - | - | - | - | - | - | 2.30 |
| 0730 | - | - | - | - | - | - | - | - | 2.93 |
| 0800 | - | - | - | - | - | - | - | 0.32 | 1.61 |
| 0830 | - | - | - | - | - | - | - | - | 1.63 |
| 0900 | - | - | - | - | - | - | - | - | 1.32 |
| 0930 | - | - | - | - | - | - | - | - | 1.99 |
| 1000 | - | - | - | - | - | - | - | - | 1.65 |
| 1030 | - | - | - | - | - | - | - | - | 1.66 |
| 1100 | - | - | - | - | - | - | - | - | 1.32 |
| 1130 | - | - | - | - | - | - | - | 0.33 | 1.64 |
| 1200 | - | - | - | - | - | - | - | - | 1.64 |
| 1230 | - | - | - | - | - | - | - | - | 1.63 |
| 1300 | - | - | - | - | - | - | - | - | 0.99 |
| 1330 | - | - | - | - | - | - | - | - | 1.66 |
| 1400 | - | - | - | - | - | - | - | - | 0.99 |
| 1430 | - | - | - | - | - | - | - | - | 1.63 |
| 1500 | - | - | - | - | - | - | - | - | 0.33 |
| 1530 | - | - | - | - | - | - | 0.33 | 0.33 | 1.63 |
| 1600 | - | - | - | - | - | - | - | - | 1.63 |

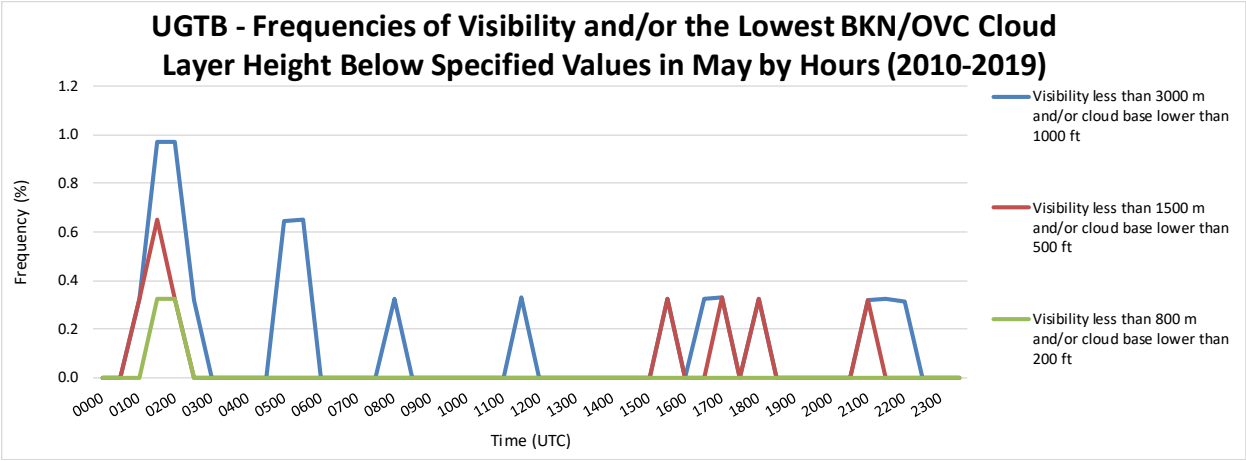
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | - | - | - | - | 0.32 | 1.29 |
| 1700 | - | - | - | - | 0.33 | - | 0.33 | 0.33 | 0.99 |
| 1730 | - | - | - | - | - | - | - | - | 0.97 |
| 1800 | - | - | - | - | 0.32 | - | 0.32 | 0.32 | 0.97 |
| 1830 | - | - | - | - | - | - | - | - | 0.33 |
| 1900 | - | - | - | - | - | - | - | - | 0.32 |
| 1930 | - | - | - | - | - | - | - | - | 1.29 |
| 2000 | - | - | - | - | - | - | - | - | 0.97 |
| 2030 | - | - | - | - | - | - | - | - | 0.65 |
| 2100 | - | - | - | - | - | - | 0.32 | 0.32 | 0.96 |
| 2130 | - | - | - | - | - | - | - | 0.32 | 0.65 |
| 2200 | - | - | - | - | - | - | - | 0.31 | 1.25 |
| 2230 | - | - | - | - | - | - | - | - | 1.60 |
| 2300 | - | - | - | - | - | - | - | - | 1.63 |
| 2330 | - | - | - | - | - | - | - | - | 2.01 |
| TOTAL | - | 0.01 | 0.01 | 0.01 | 0.03 | 0.01 | 0.05 | 0.14 | 1.97 |

In May, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 200 meters, based on Ten-year observation, constitutes 0.01% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.05% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES

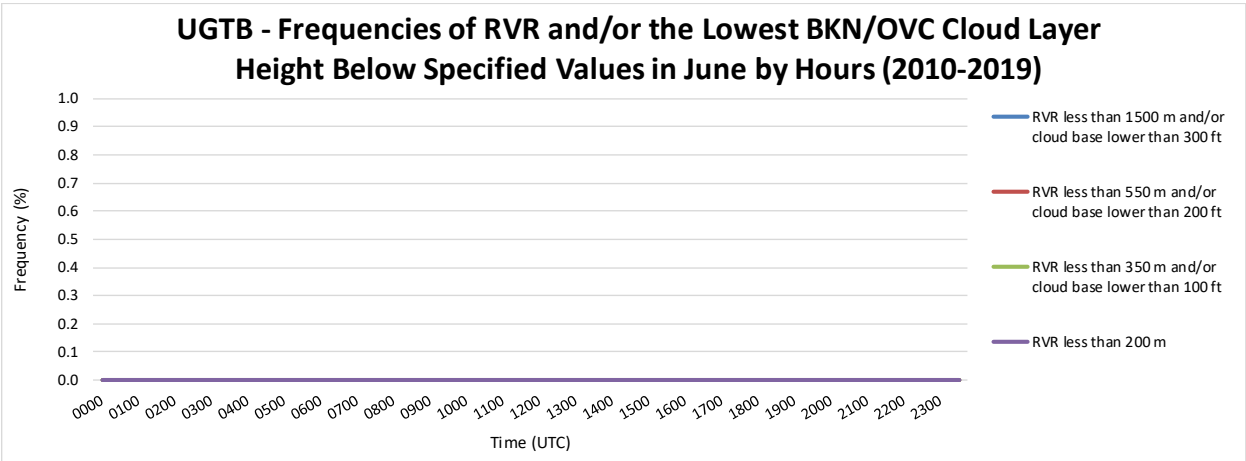
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
|---|---|---|---|---|---|---|---|---|---|
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | - | - |
| 0030 | - | - | - | - | - | - | - | - | - |
| 0100 | - | - | - | - | - | - | - | - | 0.66 |
| 0130 | - | - | - | - | - | - | - | - | 2.00 |
| 0200 | - | - | - | - | - | - | - | - | 1.65 |
| 0230 | - | - | - | - | - | - | - | - | 3.29 |
| 0300 | - | - | - | - | - | - | - | - | 1.66 |
| 0330 | - | - | - | - | - | - | - | - | 1.97 |
| 0400 | - | - | - | - | - | - | - | - | 1.65 |
| 0430 | - | - | - | - | - | - | - | - | 2.95 |
| 0500 | - | - | - | - | - | - | - | - | 1.32 |
| 0530 | - | - | - | - | - | - | - | - | 0.99 |
| 0600 | - | - | - | - | - | - | - | - | 0.33 |
| 0630 | - | - | - | - | - | - | - | 0.33 | 0.33 |
| 0700 | - | - | - | - | - | - | - | - | 0.66 |
| 0730 | - | - | - | - | - | - | - | - | - |
| 0800 | - | - | - | - | - | - | - | - | - |
| 0830 | - | - | - | - | - | - | - | - | - |
| 0900 | - | - | - | - | - | - | - | - | - |
| 0930 | - | - | - | - | - | - | - | - | - |
| 1000 | - | - | - | - | - | - | - | - | 0.33 |
| 1030 | - | - | - | - | - | - | 0.33 | 0.33 | 0.33 |
| 1100 | - | - | - | - | - | - | - | - | 0.33 |
| 1130 | - | - | - | - | - | - | 0.33 | 0.33 | 1.66 |
| 1200 | - | - | - | - | - | - | - | - | 0.67 |
| 1230 | - | - | - | - | - | - | - | - | 0.66 |
| 1300 | - | - | - | - | - | - | - | - | 0.33 |
| 1330 | - | - | - | - | - | - | - | - | 0.99 |
| 1400 | - | - | - | - | - | - | - | - | 0.66 |
| 1430 | - | - | - | - | - | - | - | - | 0.33 |
| 1500 | - | - | - | - | - | - | - | 0.33 | 1.33 |
| 1530 | - | - | - | - | - | - | - | 0.33 | 1.66 |
| 1600 | - | - | - | - | - | - | - | - | 0.66 |

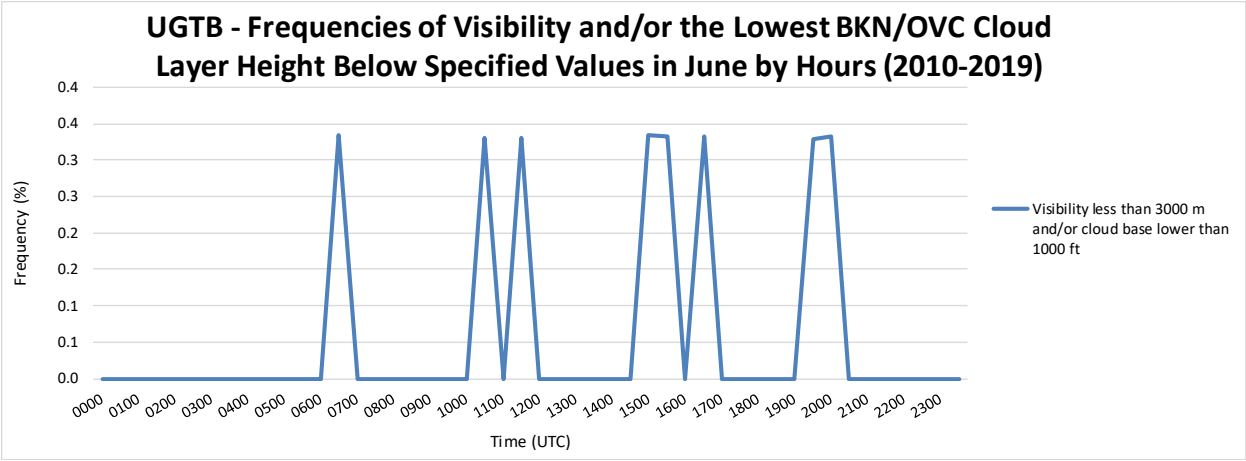
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | - | - | - | - | 0.33 | 1.33 |
| 1700 | - | - | - | - | - | - | - | - | 0.33 |
| 1730 | - | - | - | - | - | - | - | - | 0.66 |
| 1800 | - | - | - | - | - | - | - | - | 0.66 |
| 1830 | - | - | - | - | - | - | - | - | 0.66 |
| 1900 | - | - | - | - | - | - | - | - | 0.33 |
| 1930 | - | - | - | - | - | - | - | 0.33 | 1.32 |
| 2000 | - | - | - | - | - | - | - | 0.33 | 1.00 |
| 2030 | - | - | - | - | - | - | - | - | 1.32 |
| 2100 | - | - | - | - | - | - | - | - | 0.33 |
| 2130 | - | - | - | - | - | - | - | - | 0.66 |
| 2200 | - | - | - | - | - | - | - | - | 0.67 |
| 2230 | - | - | - | - | - | - | - | - | 2.33 |
| 2300 | - | - | - | - | - | - | - | - | 0.66 |
| 2330 | - | - | - | - | - | - | - | - | - |
| TOTAL | - | - | - | - | - | - | 0.01 | 0.06 | 0.87 |

In June, based on Ten-year observation the RVR (Runway Visual Range) minimum values are not observed (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.01% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES

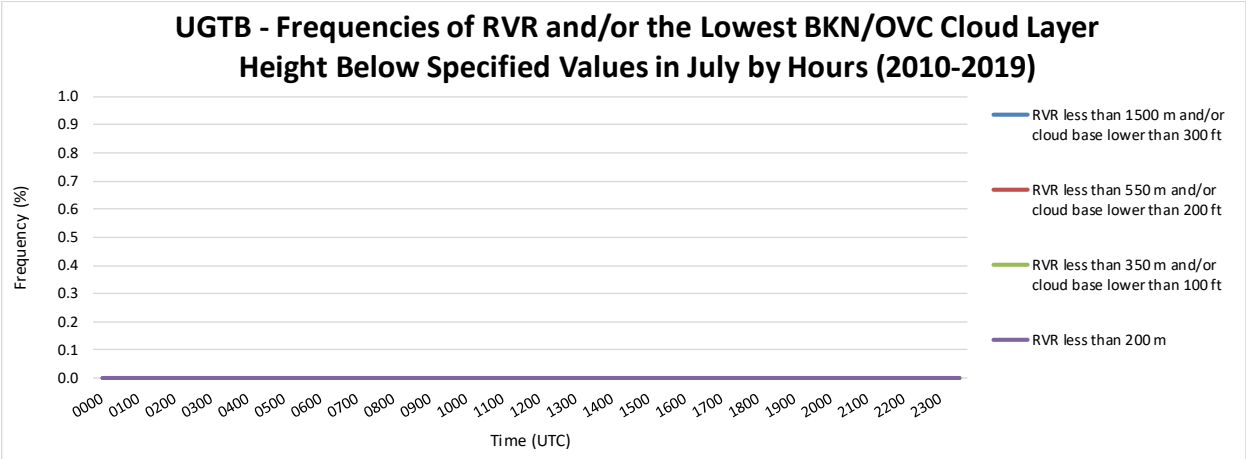
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
|---|---|---|---|---|---|---|---|---|---|
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | - | - |
| 0030 | - | - | - | - | - | - | - | - | 0.32 |
| 0100 | - | - | - | - | - | - | - | - | 0.32 |
| 0130 | - | - | - | - | - | - | 0.32 | 0.32 | 0.65 |
| 0200 | - | - | - | - | - | - | - | - | 0.64 |
| 0230 | - | - | - | - | - | - | - | - | 1.31 |
| 0300 | - | - | - | - | - | - | - | 0.32 | 0.96 |
| 0330 | - | - | - | - | - | - | - | - | 0.65 |
| 0400 | - | - | - | - | - | - | - | - | 1.28 |
| 0430 | - | - | - | - | - | - | - | - | 0.65 |
| 0500 | - | - | - | - | - | - | - | - | 1.61 |
| 0530 | - | - | - | - | - | - | - | - | 0.97 |
| 0600 | - | - | - | - | - | - | - | - | 0.98 |
| 0630 | - | - | - | - | - | - | - | 0.33 | 0.98 |
| 0700 | - | - | - | - | - | - | - | - | 0.32 |
| 0730 | - | - | - | - | - | - | - | 0.32 | 0.97 |
| 0800 | - | - | - | - | - | - | - | - | 0.65 |
| 0830 | - | - | - | - | - | - | - | - | 0.65 |
| 0900 | - | - | - | - | - | - | - | - | 0.65 |
| 0930 | - | - | - | - | - | - | - | - | 0.65 |
| 1000 | - | - | - | - | - | - | - | - | 0.33 |
| 1030 | - | - | - | - | - | - | - | - | 0.33 |
| 1100 | - | - | - | - | - | - | - | - | 0.33 |
| 1130 | - | - | - | - | - | - | - | - | 0.33 |
| 1200 | - | - | - | - | - | - | - | - | 0.33 |
| 1230 | - | - | - | - | - | - | - | - | - |
| 1300 | - | - | - | - | - | - | - | - | - |
| 1330 | - | - | - | - | - | - | - | - | - |
| 1400 | - | - | - | - | - | - | - | - | - |
| 1430 | - | - | - | - | - | - | - | - | 0.65 |
| 1500 | - | - | - | - | - | - | - | - | 0.65 |
| 1530 | - | - | - | - | - | - | - | - | 0.33 |
| 1600 | - | - | - | - | - | - | - | - | - |

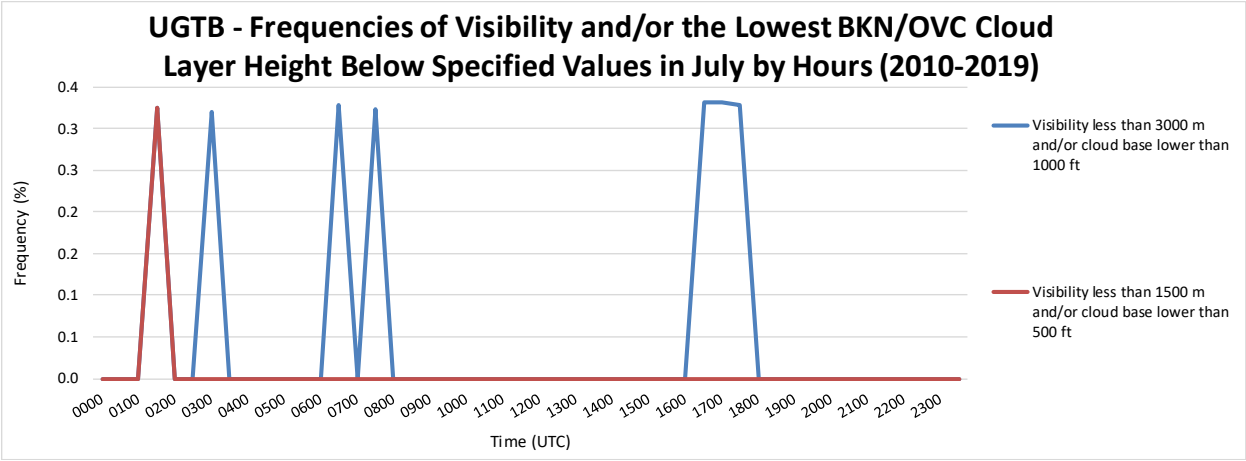
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | - | - | - | - | 0.33 | 2.33 |
| 1700 | - | - | - | - | - | - | - | 0.33 | 0.33 |
| 1730 | - | - | - | - | - | - | - | 0.33 | 0.33 |
| 1800 | - | - | - | - | - | - | - | - | - |
| 1830 | - | - | - | - | - | - | - | - | 0.32 |
| 1900 | - | - | - | - | - | - | - | - | - |
| 1930 | - | - | - | - | - | - | - | - | - |
| 2000 | - | - | - | - | - | - | - | - | - |
| 2030 | - | - | - | - | - | - | - | - | - |
| 2100 | - | - | - | - | - | - | - | - | 0.32 |
| 2130 | - | - | - | - | - | - | - | - | 0.32 |
| 2200 | - | - | - | - | - | - | - | - | - |
| 2230 | - | - | - | - | - | - | - | - | - |
| 2300 | - | - | - | - | - | - | - | - | 0.32 |
| 2330 | - | - | - | - | - | - | - | - | - |
| TOTAL | - | - | - | - | - | - | 0.01 | 0.05 | 0.47 |

In July, based on Ten-year observation the RVR (Runway Visual Range) minimum values are not observed (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.01% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES

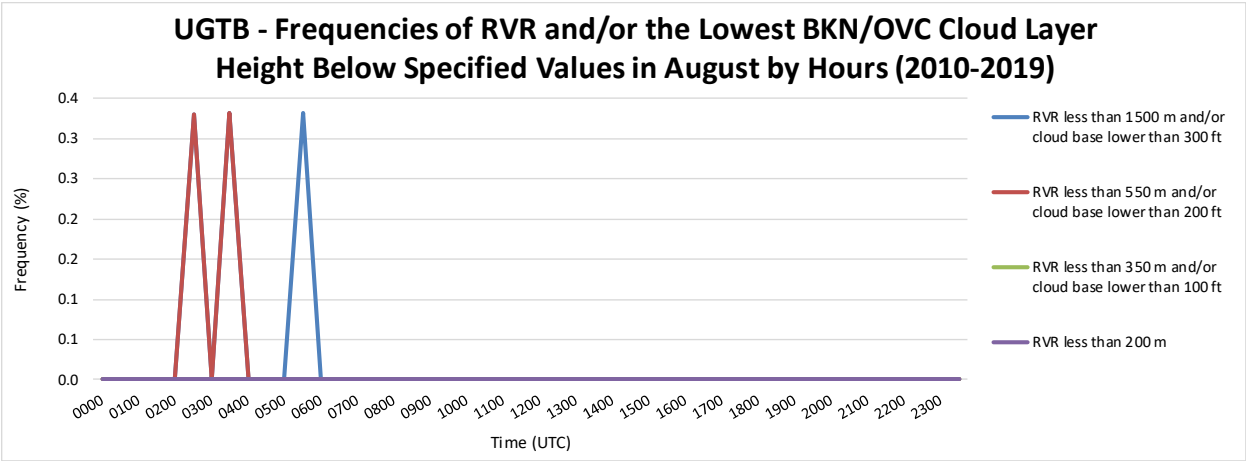
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
|---|---|---|---|---|---|---|---|---|---|
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | 0.34 | 0.34 |
| 0030 | - | - | - | - | - | - | - | - | 0.33 |
| 0100 | - | - | - | - | - | - | - | - | 0.66 |
| 0130 | - | - | - | - | - | - | - | - | 1.00 |
| 0200 | - | - | - | - | - | - | 0.33 | 0.33 | 1.67 |
| 0230 | - | - | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 1.65 |
| 0300 | - | - | - | - | - | - | 0.33 | 0.66 | 1.64 |
| 0330 | - | - | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.99 |
| 0400 | - | - | - | - | - | - | - | 0.33 | 1.32 |
| 0430 | - | - | - | - | - | - | - | 0.33 | 1.34 |
| 0500 | - | - | - | - | - | - | - | 0.32 | 0.65 |
| 0530 | - | - | - | - | 0.33 | - | 0.66 | 0.66 | 0.66 |
| 0600 | - | - | - | - | - | - | 0.66 | 0.66 | 1.31 |
| 0630 | - | - | - | - | - | - | - | 0.33 | 1.64 |
| 0700 | - | - | - | - | - | - | - | 0.33 | 1.31 |
| 0730 | - | - | - | - | - | - | - | 0.66 | 1.64 |
| 0800 | - | - | - | - | - | - | - | 0.33 | 1.64 |
| 0830 | - | - | - | - | - | - | - | - | - |
| 0900 | - | - | - | - | - | - | - | - | 0.66 |
| 0930 | - | - | - | - | - | - | - | - | 1.00 |
| 1000 | - | - | - | - | - | - | - | 0.33 | 0.66 |
| 1030 | - | - | - | - | - | - | - | - | 0.99 |
| 1100 | - | - | - | - | - | - | - | 0.33 | 0.98 |
| 1130 | - | - | - | - | - | - | - | 0.65 | 1.96 |
| 1200 | - | - | - | - | - | - | - | 0.33 | 1.31 |
| 1230 | - | - | - | - | - | - | - | 0.33 | 0.98 |
| 1300 | - | - | - | - | - | - | - | 0.33 | 0.98 |
| 1330 | - | - | - | - | - | - | - | 0.33 | 0.98 |
| 1400 | - | - | - | - | - | - | - | - | 0.66 |
| 1430 | - | - | - | - | - | - | - | - | 0.66 |
| 1500 | - | - | - | - | - | - | - | - | 1.30 |
| 1530 | - | - | - | - | - | - | - | - | 0.98 |
| 1600 | - | - | - | - | - | - | - | - | 0.66 |

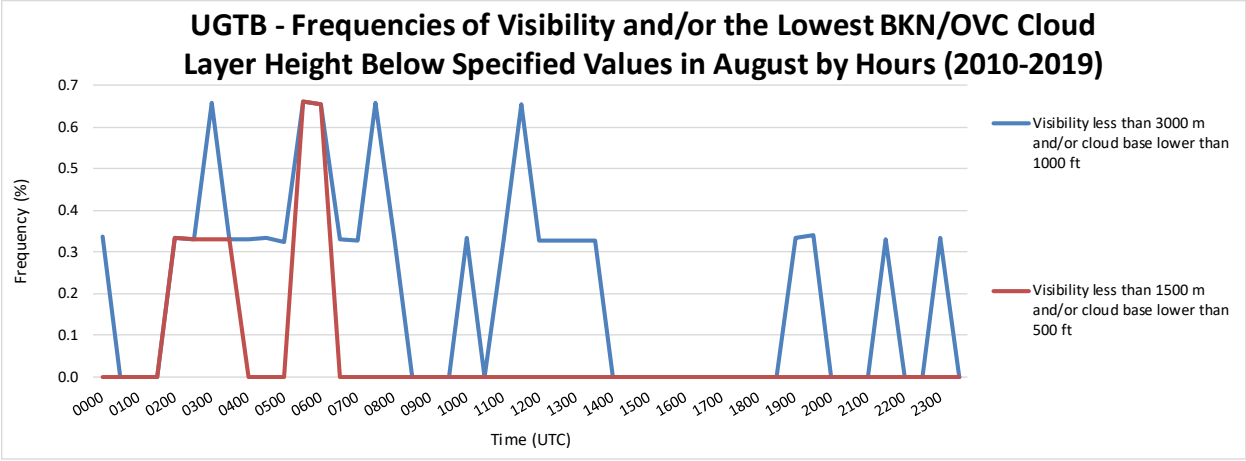
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | - | - | - | - | - | 0.33 |
| 1700 | - | - | - | - | - | - | - | - | 1.32 |
| 1730 | - | - | - | - | - | - | - | - | 1.34 |
| 1800 | - | - | - | - | - | - | - | - | 1.00 |
| 1830 | - | - | - | - | - | - | - | - | 1.01 |
| 1900 | - | - | - | - | - | - | - | 0.33 | 1.00 |
| 1930 | - | - | - | - | - | - | - | 0.34 | 1.70 |
| 2000 | - | - | - | - | - | - | - | - | 1.33 |
| 2030 | - | - | - | - | - | - | - | - | 0.99 |
| 2100 | - | - | - | - | - | - | - | - | 0.66 |
| 2130 | - | - | - | - | - | - | - | 0.33 | 1.32 |
| 2200 | - | - | - | - | - | - | - | - | 1.32 |
| 2230 | - | - | - | - | - | - | - | - | 1.97 |
| 2300 | - | - | - | - | - | - | - | 0.33 | 1.66 |
| 2330 | - | - | - | - | - | - | - | - | 1.00 |
| TOTAL | - | - | - | 0.01 | 0.02 | 0.01 | 0.06 | 0.21 | 1.09 |

In August, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 550 meters, based on Ten-year observation, constitutes 0.01% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.06% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES

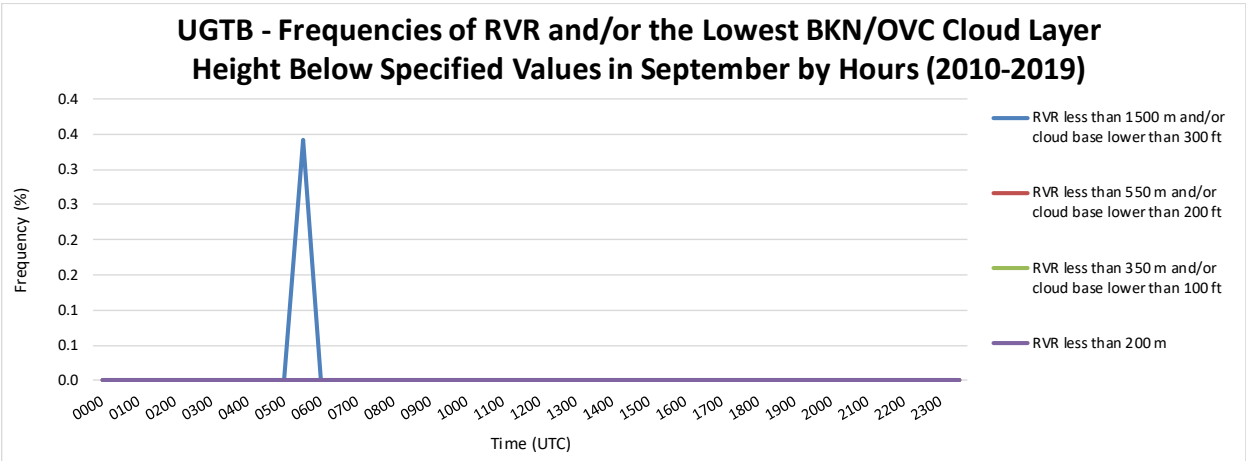
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
|---|---|---|---|---|---|---|---|---|---|
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | - | 2.05 |
| 0030 | - | - | - | - | - | - | - | - | 2.36 |
| 0100 | - | - | - | - | - | - | - | 0.33 | 2.30 |
| 0130 | - | - | - | - | - | - | - | 0.66 | 3.96 |
| 0200 | - | - | - | - | - | - | - | 0.67 | 3.34 |
| 0230 | - | - | - | - | - | - | - | - | 4.64 |
| 0300 | - | - | - | - | - | - | - | - | 3.70 |
| 0330 | - | - | - | - | - | - | - | - | 3.72 |
| 0400 | - | - | - | - | - | - | - | - | 5.35 |
| 0430 | - | - | - | - | - | - | - | - | 5.39 |
| 0500 | - | - | - | - | - | - | - | - | 4.35 |
| 0530 | - | - | - | - | 0.34 | - | 0.34 | 0.34 | 6.51 |
| 0600 | - | - | - | - | - | - | - | 0.34 | 5.03 |
| 0630 | - | - | - | - | - | - | - | 0.33 | 2.99 |
| 0700 | - | - | - | - | - | - | - | 0.67 | 3.67 |
| 0730 | - | - | - | - | - | - | - | - | 2.39 |
| 0800 | - | - | - | - | - | - | - | 0.34 | 1.34 |
| 0830 | - | - | - | - | - | - | - | - | 1.02 |
| 0900 | - | - | - | - | - | - | - | - | 1.00 |
| 0930 | - | - | - | - | - | - | - | - | 1.02 |
| 1000 | - | - | - | - | - | - | - | - | 1.01 |
| 1030 | - | - | - | - | - | - | - | - | 0.34 |
| 1100 | - | - | - | - | - | - | - | - | 1.36 |
| 1130 | - | - | - | - | - | - | - | - | 0.68 |
| 1200 | - | - | - | - | - | - | - | - | 0.33 |
| 1230 | - | - | - | - | - | - | - | - | 0.66 |
| 1300 | - | - | - | - | - | - | - | 0.68 | 1.02 |
| 1330 | - | - | - | - | - | - | - | 0.67 | 1.01 |
| 1400 | - | - | - | - | - | - | 0.67 | 0.67 | 1.68 |
| 1430 | - | - | - | - | - | - | - | 0.67 | 2.01 |
| 1500 | - | - | - | - | - | - | - | - | 0.67 |
| 1530 | - | - | - | - | - | - | - | 0.34 | 0.67 |
| 1600 | - | - | - | - | - | - | - | 0.34 | 1.01 |

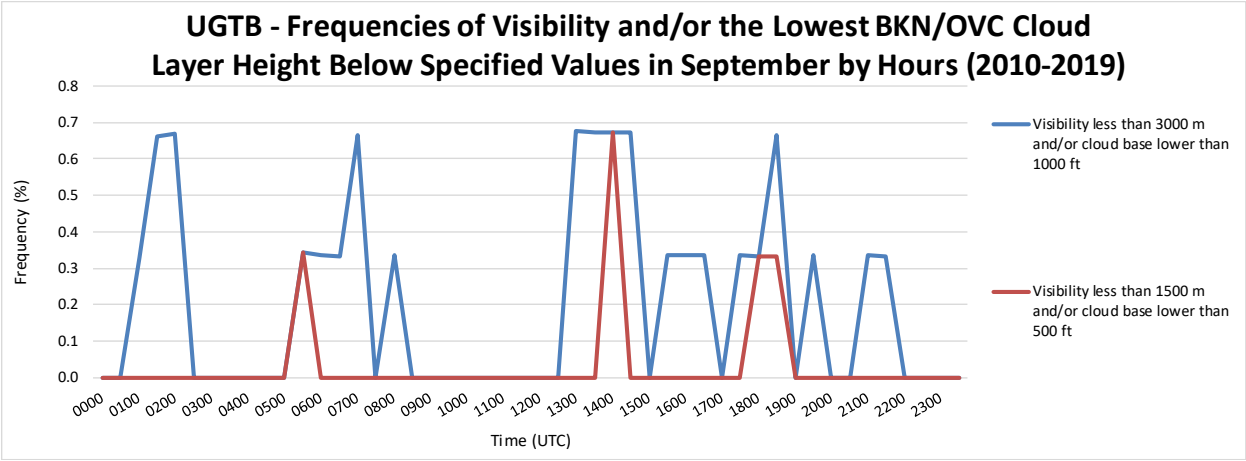
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | - | - | - | - | 0.34 | 1.69 |
| 1700 | - | - | - | - | - | - | - | - | 1.68 |
| 1730 | - | - | - | - | - | - | - | 0.33 | 2.01 |
| 1800 | - | - | - | - | - | - | 0.33 | 0.33 | 2.00 |
| 1830 | - | - | - | - | - | - | 0.33 | 0.67 | 2.67 |
| 1900 | - | - | - | - | - | - | - | - | 2.01 |
| 1930 | - | - | - | - | - | - | - | 0.34 | 1.68 |
| 2000 | - | - | - | - | - | - | - | - | 1.34 |
| 2030 | - | - | - | - | - | - | - | - | 1.00 |
| 2100 | - | - | - | - | - | - | - | 0.34 | 1.68 |
| 2130 | - | - | - | - | - | - | - | 0.33 | 1.67 |
| 2200 | - | - | - | - | - | - | - | - | 1.33 |
| 2230 | - | - | - | - | - | - | - | - | 1.71 |
| 2300 | - | - | - | - | - | - | - | - | 1.32 |
| 2330 | - | - | - | - | - | - | - | - | 2.67 |
| TOTAL | - | - | - | - | 0.01 | - | 0.03 | 0.20 | 2.19 |

In September the observed occurrence of the RVR (Runway Visual Range) minimum values of below 1500 meters, based on Ten-year observation, constitutes 0.01% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.03% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES

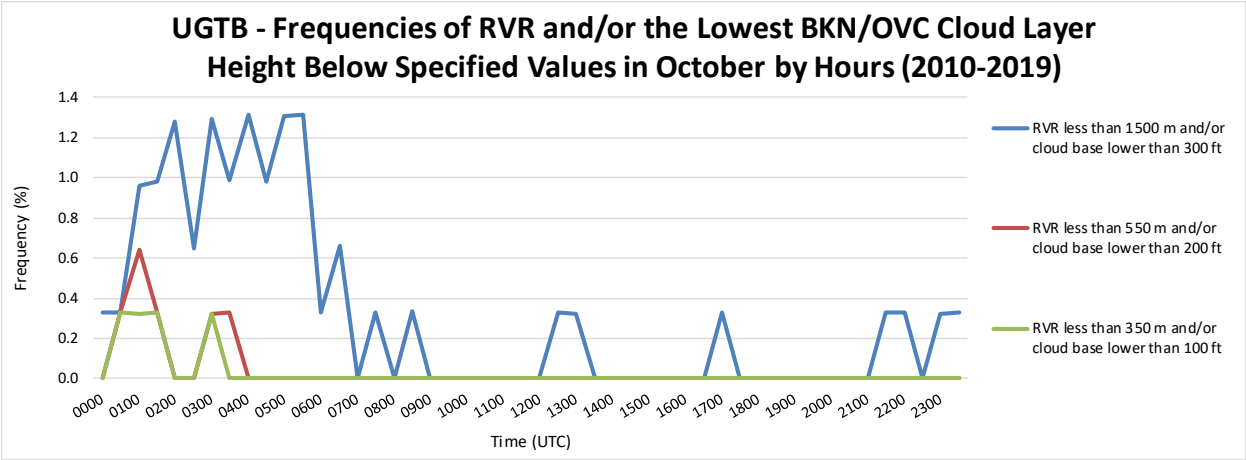
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
|---|---|---|---|---|---|---|---|---|---|
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | 0.33 | - | 0.99 | 3.95 | 12.50 |
| 0030 | - | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.98 | 3.91 | 12.38 |
| 0100 | - | - | 0.32 | 0.64 | 0.96 | 0.64 | 1.92 | 4.79 | 13.42 |
| 0130 | - | - | 0.33 | 0.33 | 0.98 | 0.33 | 1.63 | 4.89 | 13.68 |
| 0200 | - | - | - | - | 1.28 | 0.32 | 2.24 | 4.15 | 13.10 |
| 0230 | - | - | - | - | 0.65 | - | 2.27 | 4.22 | 13.64 |
| 0300 | - | - | 0.32 | 0.32 | 1.29 | 0.32 | 2.90 | 4.84 | 13.55 |
| 0330 | - | - | - | 0.33 | 0.99 | 0.33 | 2.97 | 6.27 | 16.17 |
| 0400 | - | - | - | - | 1.32 | 0.33 | 3.29 | 5.92 | 16.78 |
| 0430 | - | - | - | - | 0.98 | 0.33 | 1.96 | 5.88 | 16.67 |
| 0500 | - | - | - | - | 1.30 | - | 2.61 | 5.54 | 17.92 |
| 0530 | - | - | - | - | 1.32 | 0.33 | 2.30 | 6.25 | 16.78 |
| 0600 | - | - | - | - | 0.33 | - | 1.31 | 5.23 | 16.34 |
| 0630 | - | - | - | - | 0.66 | - | 1.98 | 5.28 | 15.18 |
| 0700 | - | - | - | - | - | - | 1.97 | 4.61 | 10.53 |
| 0730 | - | - | - | - | 0.33 | - | 0.66 | 5.59 | 12.17 |
| 0800 | - | - | - | - | - | - | 0.66 | 4.28 | 11.51 |
| 0830 | - | - | - | - | 0.33 | - | 0.33 | 2.67 | 11.00 |
| 0900 | - | - | - | - | - | - | 0.65 | 2.29 | 7.84 |
| 0930 | - | - | - | - | - | - | 0.33 | 1.65 | 8.58 |
| 1000 | - | - | - | - | - | - | 0.33 | 1.98 | 7.59 |
| 1030 | - | - | - | - | - | - | 0.66 | 1.98 | 6.27 |
| 1100 | - | - | - | - | - | - | 0.66 | 1.64 | 6.56 |
| 1130 | - | - | - | - | - | - | - | 1.65 | 5.94 |
| 1200 | - | - | - | - | - | - | 0.33 | 1.97 | 6.91 |
| 1230 | - | - | - | - | 0.33 | - | 0.33 | 2.61 | 6.21 |
| 1300 | - | - | - | - | 0.32 | - | 0.65 | 1.62 | 5.84 |
| 1330 | - | - | - | - | - | - | 0.66 | 0.99 | 5.26 |
| 1400 | - | - | - | - | - | - | - | 0.65 | 7.47 |
| 1430 | - | - | - | - | - | - | - | 0.98 | 6.21 |
| 1500 | - | - | - | - | - | - | - | 0.33 | 4.58 |
| 1530 | - | - | - | - | - | - | - | 0.32 | 3.25 |
| 1600 | - | - | - | - | - | - | - | 0.96 | 5.14 |

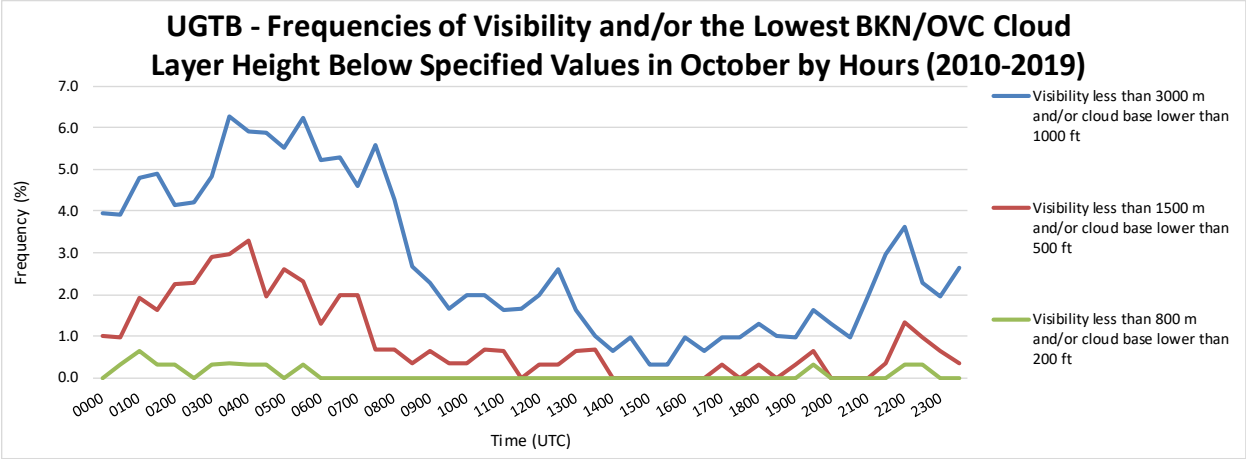
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | - | - | - | - | 0.65 | 5.21 |
| 1700 | - | - | - | - | 0.33 | - | 0.33 | 0.98 | 5.54 |
| 1730 | - | - | - | - | - | - | - | 0.97 | 6.17 |
| 1800 | - | - | - | - | - | - | 0.32 | 1.30 | 7.14 |
| 1830 | - | - | - | - | - | - | - | 0.99 | 8.22 |
| 1900 | - | - | - | - | - | - | 0.33 | 0.98 | 8.79 |
| 1930 | - | - | - | - | - | 0.32 | 0.65 | 1.62 | 9.42 |
| 2000 | - | - | - | - | - | - | - | 1.31 | 9.15 |
| 2030 | - | - | - | - | - | - | - | 0.98 | 8.47 |
| 2100 | - | - | - | - | - | - | - | 1.97 | 9.84 |
| 2130 | - | - | - | - | 0.33 | - | 0.33 | 2.98 | 10.26 |
| 2200 | - | - | - | - | 0.33 | 0.33 | 1.32 | 3.62 | 9.54 |
| 2230 | - | - | - | - | - | 0.33 | 0.98 | 2.29 | 10.13 |
| 2300 | - | - | - | - | 0.32 | - | 0.65 | 1.94 | 10.36 |
| 2330 | - | - | - | - | 0.33 | - | 0.33 | 2.64 | 11.22 |
| TOTAL | - | - | 0.03 | 0.04 | 0.33 | 0.09 | 0.89 | 2.81 | 9.92 |

In October, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters, based on Ten-year observation, constitutes 0.03% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.89% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES

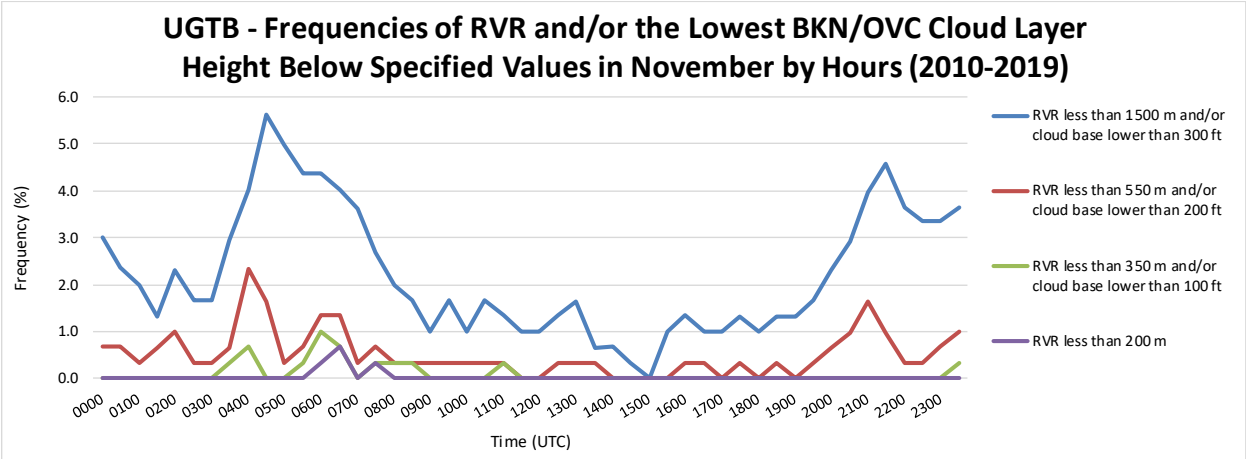
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
|---|---|---|---|---|---|---|---|---|---|
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | 0.67 | 3.01 | 1.34 | 4.68 | 8.03 | 22.41 |
| 0030 | - | - | - | 0.67 | 2.36 | 1.68 | 4.38 | 8.08 | 22.90 |
| 0100 | - | - | - | 0.33 | 1.99 | 0.66 | 4.97 | 8.28 | 23.18 |
| 0130 | - | - | - | 0.66 | 1.32 | 1.32 | 2.98 | 7.28 | 24.83 |
| 0200 | - | - | - | 0.99 | 2.32 | 1.32 | 3.64 | 7.28 | 25.83 |
| 0230 | - | - | - | 0.33 | 1.66 | 1.33 | 4.65 | 8.64 | 22.92 |
| 0300 | - | - | - | 0.33 | 1.67 | 1.67 | 3.00 | 7.67 | 22.67 |
| 0330 | - | - | 0.33 | 0.66 | 2.96 | 2.30 | 4.93 | 9.54 | 26.64 |
| 0400 | - | - | 0.67 | 2.34 | 4.01 | 3.01 | 7.02 | 12.04 | 32.44 |
| 0430 | - | - | - | 1.65 | 5.61 | 3.63 | 8.91 | 13.86 | 32.67 |
| 0500 | - | - | - | 0.33 | 4.98 | 2.66 | 6.98 | 12.96 | 32.56 |
| 0530 | - | - | 0.34 | 0.67 | 4.36 | 1.34 | 7.72 | 12.08 | 31.54 |
| 0600 | - | 0.34 | 1.01 | 1.34 | 4.36 | 1.68 | 6.38 | 13.09 | 30.20 |
| 0630 | - | 0.67 | 0.67 | 1.34 | 4.01 | 1.67 | 6.35 | 10.70 | 26.76 |
| 0700 | - | - | - | 0.33 | 3.61 | 0.98 | 6.56 | 12.13 | 27.21 |
| 0730 | - | 0.34 | 0.34 | 0.67 | 2.69 | 1.01 | 5.72 | 10.77 | 27.61 |
| 0800 | - | - | 0.33 | 0.33 | 2.00 | 1.00 | 5.00 | 9.67 | 27.00 |
| 0830 | - | - | 0.33 | 0.33 | 1.67 | 0.67 | 3.34 | 8.36 | 25.75 |
| 0900 | - | - | - | 0.33 | 1.00 | 0.33 | 3.01 | 5.69 | 21.07 |
| 0930 | - | - | - | 0.34 | 1.68 | 0.34 | 2.68 | 6.04 | 19.13 |
| 1000 | - | - | - | 0.33 | 1.00 | 0.66 | 1.99 | 6.98 | 18.60 |
| 1030 | - | - | - | 0.33 | 1.67 | 0.67 | 2.00 | 6.67 | 16.33 |
| 1100 | - | - | 0.33 | 0.33 | 1.34 | 0.33 | 1.67 | 6.02 | 17.06 |
| 1130 | - | - | - | - | 1.00 | 0.33 | 2.34 | 5.35 | 14.72 |
| 1200 | - | - | - | - | 0.99 | 0.33 | 1.32 | 4.95 | 16.83 |
| 1230 | - | - | - | 0.34 | 1.36 | 0.68 | 1.36 | 5.08 | 18.64 |
| 1300 | - | - | - | 0.33 | 1.65 | 0.33 | 1.98 | 4.95 | 21.45 |
| 1330 | - | - | - | 0.33 | 0.66 | 0.66 | 1.32 | 4.30 | 22.52 |
| 1400 | - | - | - | - | 0.67 | - | 1.34 | 4.36 | 20.47 |
| 1430 | - | - | - | - | 0.33 | 0.33 | 1.66 | 3.32 | 16.94 |
| 1500 | - | - | - | - | - | 0.33 | 0.67 | 2.01 | 14.72 |
| 1530 | - | - | - | - | 1.00 | 0.33 | 1.67 | 3.68 | 16.72 |
| 1600 | - | - | - | 0.33 | 1.34 | 0.67 | 2.01 | 3.68 | 17.73 |

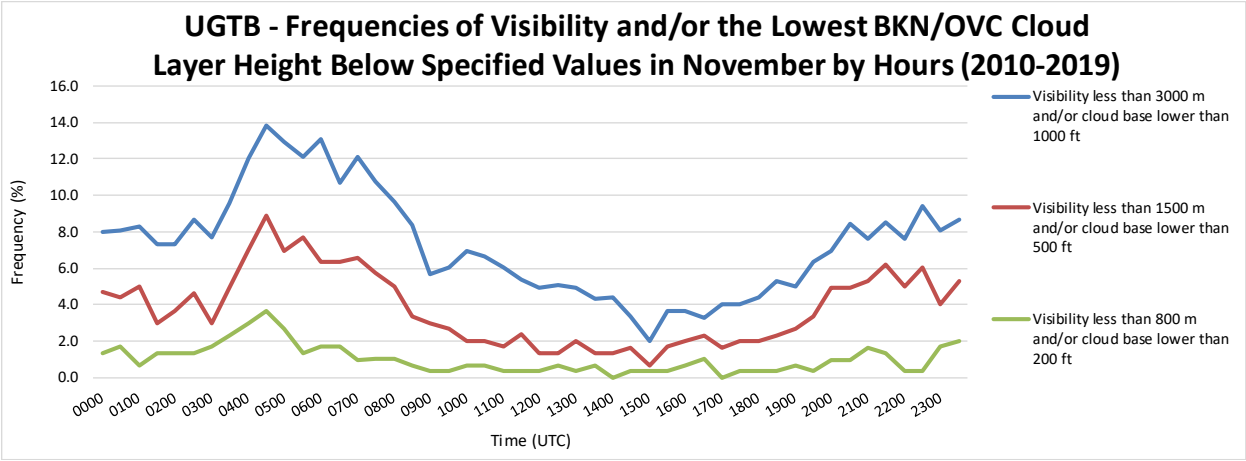
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | 0.33 | 0.99 | 0.99 | 2.32 | 3.31 | 17.55 |
| 1700 | - | - | - | - | 1.00 | - | 1.66 | 3.99 | 16.94 |
| 1730 | - | - | - | 0.33 | 1.33 | 0.33 | 1.99 | 3.99 | 16.61 |
| 1800 | - | - | - | - | 1.01 | 0.34 | 2.01 | 4.36 | 16.44 |
| 1830 | - | - | - | 0.33 | 1.33 | 0.33 | 2.33 | 5.32 | 17.61 |
| 1900 | - | - | - | - | 1.32 | 0.66 | 2.65 | 4.97 | 15.89 |
| 1930 | - | - | - | 0.33 | 1.67 | 0.33 | 3.33 | 6.33 | 17.33 |
| 2000 | - | - | - | 0.66 | 2.31 | 0.99 | 4.95 | 6.93 | 20.46 |
| 2030 | - | - | - | 0.98 | 2.93 | 0.98 | 4.89 | 8.47 | 20.20 |
| 2100 | - | - | - | 1.65 | 3.96 | 1.65 | 5.28 | 7.59 | 20.13 |
| 2130 | - | - | - | 0.98 | 4.59 | 1.31 | 6.23 | 8.52 | 21.97 |
| 2200 | - | - | - | 0.33 | 3.65 | 0.33 | 4.98 | 7.64 | 22.26 |
| 2230 | - | - | - | 0.34 | 3.36 | 0.34 | 6.04 | 9.40 | 24.50 |
| 2300 | - | - | - | 0.67 | 3.37 | 1.68 | 4.04 | 8.08 | 23.23 |
| 2330 | - | - | 0.33 | 1.00 | 3.65 | 1.99 | 5.32 | 8.64 | 23.26 |
| TOTAL | - | 0.03 | 0.10 | 0.52 | 2.23 | 1.00 | 3.80 | 7.32 | 21.93 |

In November, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 200 meters, based on Ten-year observation, constitutes 0.03% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 3.80% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGTB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

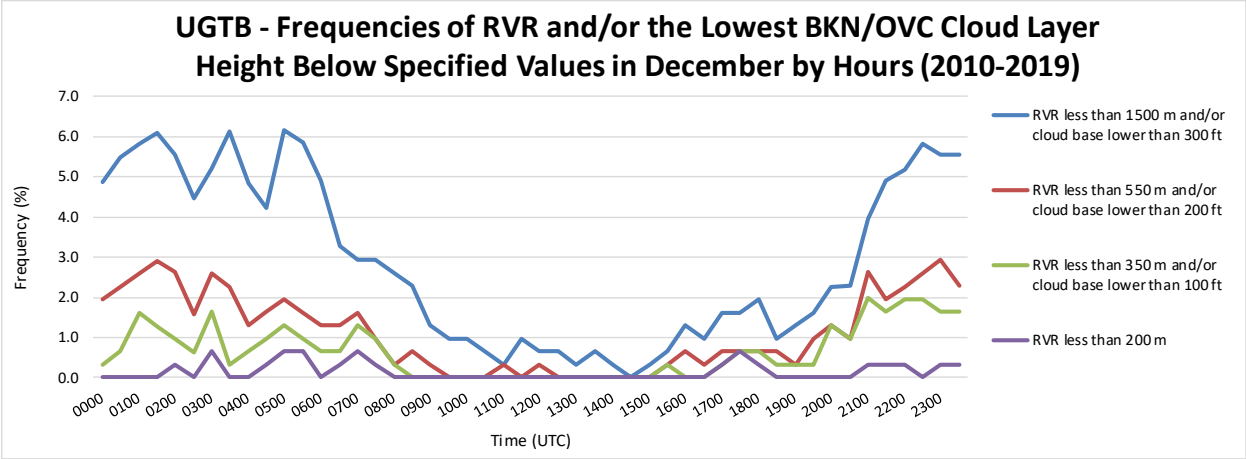
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | 0.32 | 1.94 | 4.85 | 2.59 | 6.15 | 11.00 | 26.86 |
| 0030 | - | - | 0.65 | 2.26 | 5.48 | 3.55 | 7.42 | 10.97 | 28.39 |
| 0100 | - | - | 1.62 | 2.59 | 5.83 | 4.21 | 8.09 | 12.62 | 25.89 |
| 0130 | - | - | 1.28 | 2.88 | 6.09 | 4.49 | 7.69 | 13.14 | 25.64 |
| 0200 | - | 0.33 | 0.98 | 2.61 | 5.56 | 4.58 | 8.50 | 11.76 | 25.16 |
| 0230 | - | - | 0.63 | 1.59 | 4.44 | 3.17 | 7.94 | 11.43 | 24.44 |
| 0300 | - | 0.65 | 1.63 | 2.61 | 5.21 | 3.91 | 7.17 | 12.05 | 24.43 |
| 0330 | - | - | 0.32 | 2.26 | 6.13 | 3.55 | 7.42 | 11.29 | 26.45 |
| 0400 | - | - | 0.65 | 1.29 | 4.84 | 3.23 | 5.81 | 8.39 | 25.81 |
| 0430 | - | 0.33 | 0.98 | 1.63 | 4.23 | 3.26 | 7.17 | 12.38 | 34.85 |
| 0500 | - | 0.65 | 1.30 | 1.95 | 6.17 | 3.90 | 7.47 | 11.69 | 34.42 |
| 0530 | - | 0.65 | 0.97 | 1.62 | 5.84 | 2.92 | 8.44 | 13.64 | 31.82 |
| 0600 | - | - | 0.65 | 1.30 | 4.89 | 1.63 | 8.14 | 12.70 | 32.25 |
| 0630 | - | 0.33 | 0.66 | 1.31 | 3.28 | 1.31 | 6.89 | 12.13 | 30.82 |
| 0700 | - | 0.65 | 1.30 | 1.62 | 2.92 | 1.62 | 5.84 | 13.31 | 29.55 |
| 0730 | - | 0.33 | 0.98 | 0.98 | 2.94 | 1.63 | 4.90 | 10.78 | 28.43 |
| 0800 | - | - | 0.32 | 0.32 | 2.58 | 0.97 | 5.16 | 9.68 | 26.13 |
| 0830 | - | - | - | 0.66 | 2.30 | 0.66 | 4.59 | 7.87 | 22.62 |
| 0900 | - | - | - | 0.33 | 1.32 | 0.66 | 2.96 | 7.24 | 22.37 |
| 0930 | - | - | - | - | 0.98 | 0.33 | 2.29 | 5.23 | 20.26 |
| 1000 | - | - | - | - | 0.97 | - | 1.94 | 6.13 | 17.42 |
| 1030 | - | - | - | - | 0.65 | - | 1.96 | 4.90 | 17.65 |
| 1100 | - | - | - | 0.32 | 0.32 | 0.32 | 0.65 | 3.90 | 17.86 |
| 1130 | - | - | - | - | 0.98 | 0.33 | 1.63 | 3.91 | 17.59 |
| 1200 | - | - | - | 0.33 | 0.65 | 0.33 | 1.30 | 4.23 | 19.87 |
| 1230 | - | - | - | - | 0.66 | - | 1.32 | 4.29 | 20.46 |
| 1300 | - | - | - | - | 0.32 | - | 0.97 | 4.52 | 25.16 |
| 1330 | - | - | - | - | 0.66 | - | 1.64 | 6.56 | 28.52 |
| 1400 | - | - | - | - | 0.32 | - | 1.30 | 4.22 | 30.52 |
| 1430 | - | - | - | - | - | - | 1.30 | 3.58 | 23.45 |
| 1500 | - | - | - | - | 0.32 | - | 2.58 | 4.19 | 23.87 |
| 1530 | - | - | 0.32 | 0.32 | 0.65 | 0.65 | 2.60 | 4.55 | 25.65 |
| 1600 | - | - | - | 0.65 | 1.29 | 0.97 | 3.24 | 5.18 | 24.60 |

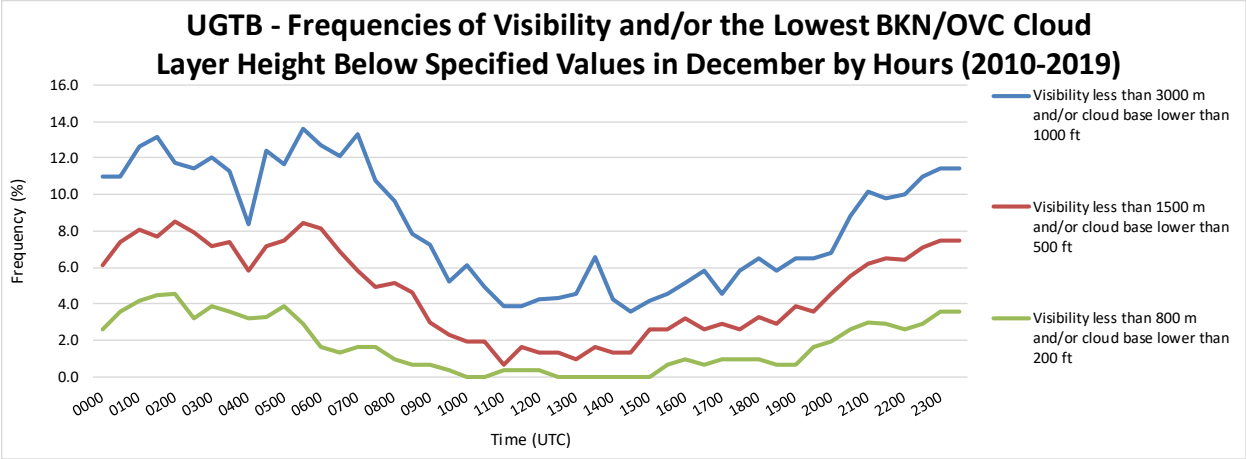
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1630 | - | - | - | 0.32 | 0.97 | 0.65 | 2.60 | 5.84 | 23.38 |
| 1700 | - | 0.32 | 0.32 | 0.65 | 1.62 | 0.97 | 2.92 | 4.55 | 24.68 |
| 1730 | - | 0.65 | 0.65 | 0.65 | 1.62 | 0.97 | 2.59 | 5.83 | 24.60 |
| 1800 | - | 0.32 | 0.65 | 0.65 | 1.95 | 0.97 | 3.25 | 6.49 | 24.68 |
| 1830 | - | - | 0.32 | 0.65 | 0.97 | 0.65 | 2.92 | 5.84 | 23.05 |
| 1900 | - | - | 0.32 | 0.32 | 1.30 | 0.65 | 3.90 | 6.49 | 24.03 |
| 1930 | - | - | 0.32 | 0.97 | 1.62 | 1.62 | 3.56 | 6.47 | 23.62 |
| 2000 | - | - | 1.29 | 1.29 | 2.26 | 1.94 | 4.52 | 6.77 | 23.55 |
| 2030 | - | - | 0.98 | 0.98 | 2.28 | 2.61 | 5.54 | 8.79 | 23.45 |
| 2100 | - | 0.33 | 1.97 | 2.62 | 3.93 | 2.95 | 6.23 | 10.16 | 24.59 |
| 2130 | - | 0.33 | 1.63 | 1.95 | 4.89 | 2.93 | 6.51 | 9.77 | 26.06 |
| 2200 | - | 0.32 | 1.94 | 2.26 | 5.16 | 2.58 | 6.45 | 10.00 | 28.39 |
| 2230 | - | - | 1.94 | 2.58 | 5.81 | 2.90 | 7.10 | 10.97 | 27.10 |
| 2300 | - | 0.33 | 1.63 | 2.93 | 5.54 | 3.58 | 7.49 | 11.40 | 26.71 |
| 2330 | - | 0.33 | 1.63 | 2.28 | 5.54 | 3.58 | 7.49 | 11.40 | 27.69 |
| TOTAL | - | 0.14 | 0.65 | 1.14 | 2.90 | 1.76 | 4.70 | 8.34 | 25.31 |

In November, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 200 meters, based on Ten-year observation, constitutes 0.14% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Tbilisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 4.70% (see Model A).



**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | 0.32 | 0.95 | 1.27 | 1.58 | 2.22 | 5.06 | 10.44 | 21.20 |
| 0030 | 0.64 | 1.61 | 2.25 | 2.57 | 3.54 | 7.07 | 12.54 | 22.19 |
| 0100 | 0.64 | 1.93 | 2.57 | 3.22 | 4.82 | 7.40 | 12.86 | 21.86 |
| 0130 | 0.64 | 1.92 | 2.56 | 3.53 | 4.49 | 6.73 | 12.18 | 21.47 |
| 0200 | 0.64 | 2.25 | 3.22 | 3.54 | 5.47 | 8.04 | 13.18 | 22.83 |
| 0230 | 1.29 | 4.53 | 5.50 | 6.15 | 7.44 | 8.41 | 14.89 | 24.92 |
| 0300 | 0.97 | 4.19 | 4.84 | 5.48 | 7.42 | 9.03 | 14.19 | 22.26 |
| 0330 | 1.30 | 4.22 | 4.87 | 5.52 | 6.49 | 8.44 | 13.31 | 23.38 |
| 0400 | 1.94 | 3.88 | 5.83 | 7.12 | 7.77 | 8.74 | 13.59 | 22.65 |
| 0430 | 1.95 | 5.52 | 6.17 | 7.14 | 9.09 | 14.61 | 22.40 | 28.90 |
| 0500 | 1.93 | 5.79 | 6.75 | 7.07 | 9.65 | 16.08 | 22.19 | 29.58 |
| 0530 | 2.26 | 4.52 | 6.77 | 7.10 | 10.65 | 15.81 | 22.90 | 31.94 |
| 0600 | 1.62 | 2.91 | 5.18 | 6.15 | 9.71 | 14.24 | 22.33 | 30.74 |
| 0630 | 0.65 | 3.23 | 4.19 | 4.84 | 7.42 | 14.52 | 22.26 | 31.61 |
| 0700 | 0.97 | 1.62 | 3.24 | 3.88 | 7.77 | 11.97 | 22.01 | 30.74 |
| 0730 | 0.65 | 0.97 | 1.30 | 2.60 | 5.84 | 12.34 | 20.13 | 29.55 |
| 0800 | - | 0.32 | 1.29 | 1.62 | 3.24 | 8.41 | 16.83 | 26.21 |
| 0830 | - | - | 1.62 | 1.62 | 3.25 | 6.17 | 15.26 | 25.65 |
| 0900 | - | 0.32 | 0.32 | 0.65 | 3.56 | 5.83 | 13.27 | 23.30 |
| 0930 | - | - | - | 0.97 | 2.60 | 6.17 | 12.66 | 21.43 |
| 1000 | - | 0.32 | 0.32 | 0.65 | 0.65 | 5.84 | 13.31 | 20.78 |
| 1030 | - | - | - | - | 0.98 | 5.23 | 12.42 | 19.28 |
| 1100 | - | - | - | - | 0.64 | 3.54 | 10.93 | 18.65 |
| 1130 | - | - | - | 0.32 | 1.62 | 4.22 | 9.42 | 18.83 |
| 1200 | - | 0.32 | 0.64 | 0.96 | 1.61 | 3.86 | 10.61 | 18.01 |
| 1230 | - | 0.33 | 0.65 | 0.65 | 1.30 | 4.23 | 10.10 | 18.24 |
| 1300 | 0.32 | 0.65 | 0.65 | 0.65 | 1.95 | 4.87 | 10.71 | 19.16 |
| 1330 | - | 0.33 | 0.65 | 0.65 | 1.63 | 4.23 | 10.42 | 20.85 |
| 1400 | - | - | - | 0.32 | 2.25 | 5.14 | 12.22 | 24.44 |
| 1430 | - | 0.32 | 0.32 | 0.32 | 1.61 | 3.23 | 7.42 | 20.65 |
| 1500 | - | 0.32 | 0.32 | 0.32 | 1.62 | 3.56 | 6.15 | 17.80 |
| 1530 | 0.32 | 0.32 | 0.32 | 0.65 | 1.61 | 3.55 | 7.10 | 17.10 |
| 1600 | 0.32 | 0.32 | 0.32 | 0.65 | 2.26 | 3.87 | 6.77 | 17.42 |
| 1630 | 0.65 | 0.65 | 1.29 | 1.29 | 2.27 | 4.85 | 7.12 | 18.12 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1700 | 0.32 | 0.97 | 1.29 | 1.29 | 2.90 | 5.16 | 8.06 | 18.71 |
| 1730 | 0.65 | 1.29 | 1.94 | 1.94 | 2.58 | 6.13 | 9.35 | 19.03 |
| 1800 | 0.65 | 1.29 | 2.27 | 2.59 | 2.91 | 6.47 | 10.68 | 18.77 |
| 1830 | 0.32 | 1.62 | 1.95 | 2.27 | 3.25 | 5.19 | 10.06 | 19.81 |
| 1900 | 0.32 | 1.62 | 1.94 | 2.27 | 3.56 | 5.50 | 9.06 | 20.06 |
| 1930 | 0.65 | 1.30 | 1.30 | 1.63 | 3.26 | 5.86 | 9.12 | 20.85 |
| 2000 | 0.65 | 1.30 | 1.95 | 2.27 | 4.22 | 6.82 | 9.74 | 21.75 |
| 2030 | 1.31 | 2.29 | 2.94 | 3.59 | 5.23 | 7.19 | 10.78 | 21.24 |
| 2100 | 0.32 | 1.92 | 2.24 | 3.21 | 4.81 | 7.05 | 10.26 | 21.47 |
| 2130 | 0.97 | 1.94 | 2.58 | 3.55 | 5.48 | 8.06 | 11.61 | 21.94 |
| 2200 | 1.95 | 2.93 | 2.93 | 3.26 | 4.23 | 7.17 | 12.70 | 22.15 |
| 2230 | 0.64 | 1.93 | 2.57 | 2.57 | 3.86 | 8.04 | 12.86 | 22.83 |
| 2300 | 0.65 | 1.62 | 2.59 | 2.91 | 3.88 | 7.44 | 12.30 | 22.65 |
| 2330 | 0.64 | 0.64 | 1.60 | 1.92 | 3.21 | 5.13 | 9.29 | 20.83 |
| Mean | 0.63 | 1.61 | 2.19 | 2.61 | 4.12 | 7.22 | 12.71 | 22.37 |

According to the climatological table of January the mean percentage of visibility values below 8000 meters is 22.37%, correspondingly, the mean percentage of 77.63% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.63% (See climatological table of January, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | 0.72 | 2.87 | 3.58 | 3.58 | 8.24 | 10.39 | 13.98 | 27.24 |
| 0030 | 1.79 | 2.51 | 3.94 | 3.94 | 7.89 | 10.39 | 14.34 | 26.88 |
| 0100 | 1.43 | 1.79 | 2.87 | 2.87 | 5.38 | 8.96 | 13.26 | 26.52 |
| 0130 | 0.36 | 1.79 | 3.23 | 3.23 | 5.73 | 7.89 | 14.34 | 25.81 |
| 0200 | 1.43 | 1.79 | 2.15 | 2.15 | 3.58 | 6.45 | 13.26 | 26.88 |
| 0230 | 1.43 | 1.79 | 3.58 | 3.58 | 6.45 | 9.68 | 15.05 | 26.88 |
| 0300 | 1.79 | 3.23 | 3.23 | 3.23 | 6.45 | 10.04 | 16.13 | 28.67 |
| 0330 | 1.43 | 2.51 | 3.23 | 3.94 | 6.81 | 8.96 | 18.64 | 28.67 |
| 0400 | 1.08 | 2.87 | 4.30 | 4.30 | 8.60 | 13.98 | 26.16 | 40.86 |
| 0430 | 1.43 | 3.94 | 3.94 | 4.30 | 8.24 | 15.77 | 26.16 | 40.14 |
| 0500 | 1.08 | 3.94 | 4.66 | 5.02 | 10.04 | 17.20 | 26.52 | 40.86 |
| 0530 | 0.36 | 1.79 | 1.79 | 2.51 | 8.60 | 13.98 | 26.88 | 41.94 |
| 0600 | 0.36 | 1.79 | 2.51 | 3.23 | 6.81 | 12.54 | 22.58 | 38.35 |
| 0630 | 0.36 | 1.43 | 1.79 | 2.87 | 7.89 | 11.83 | 21.15 | 37.63 |
| 0700 | - | 0.36 | 1.43 | 1.79 | 4.66 | 12.19 | 20.07 | 35.84 |
| 0730 | - | 0.72 | 2.15 | 2.51 | 5.38 | 9.68 | 17.56 | 31.18 |
| 0800 | - | - | 0.36 | 1.79 | 3.23 | 7.53 | 15.05 | 26.88 |
| 0830 | - | 0.36 | 0.36 | 0.36 | 2.15 | 6.09 | 12.54 | 26.16 |
| 0900 | - | - | - | - | 1.43 | 4.66 | 10.75 | 26.16 |
| 0930 | - | - | - | 0.36 | 1.43 | 4.66 | 10.04 | 21.86 |
| 1000 | - | 0.36 | 0.72 | 1.08 | 2.15 | 3.23 | 10.04 | 20.43 |
| 1030 | - | 0.36 | 1.08 | 1.08 | 1.79 | 3.94 | 8.96 | 18.28 |
| 1100 | - | - | 0.36 | 0.36 | 1.79 | 2.51 | 8.24 | 16.49 |
| 1130 | - | - | - | 0.72 | 1.43 | 3.58 | 6.81 | 16.13 |
| 1200 | - | - | - | - | 1.08 | 2.87 | 6.09 | 15.05 |
| 1230 | - | - | - | 0.36 | 0.72 | 3.23 | 6.09 | 15.77 |
| 1300 | - | - | - | - | 0.36 | 2.87 | 5.73 | 14.34 |
| 1330 | - | - | - | - | 0.36 | 2.51 | 7.17 | 14.34 |
| 1400 | - | - | - | 0.36 | 0.36 | 3.94 | 8.24 | 15.05 |
| 1430 | - | - | - | - | 1.08 | 2.87 | 7.53 | 15.77 |
| 1500 | - | - | - | - | 0.72 | 1.79 | 6.45 | 12.90 |
| 1530 | 0.36 | 0.36 | 0.72 | 1.08 | 1.43 | 2.51 | 6.09 | 10.75 |
| 1600 | 0.36 | 0.72 | 1.08 | 1.43 | 2.51 | 3.23 | 4.66 | 10.75 |
| 1630 | - | - | 0.36 | 0.72 | 1.43 | 2.87 | 5.02 | 11.83 |
| 1700 | - | 0.36 | 0.36 | 0.72 | 2.87 | 4.30 | 6.81 | 12.19 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1730 | 0.36 | 1.43 | 1.43 | 1.79 | 3.58 | 6.09 | 10.39 | 16.13 |
| 1800 | 0.36 | 1.43 | 2.87 | 2.87 | 4.30 | 7.17 | 8.96 | 17.20 |
| 1830 | 1.43 | 2.51 | 2.87 | 3.58 | 5.02 | 7.89 | 10.75 | 19.35 |
| 1900 | 1.43 | 2.51 | 2.51 | 2.87 | 5.02 | 6.45 | 9.68 | 19.35 |
| 1930 | 1.43 | 2.51 | 2.87 | 3.23 | 4.66 | 6.09 | 10.04 | 18.28 |
| 2000 | 1.43 | 2.15 | 2.51 | 3.23 | 4.66 | 5.02 | 11.11 | 19.00 |
| 2030 | 1.08 | 2.87 | 2.87 | 3.94 | 5.02 | 6.09 | 10.75 | 19.35 |
| 2100 | 2.15 | 3.58 | 4.30 | 4.66 | 6.09 | 6.81 | 10.39 | 21.15 |
| 2130 | 2.51 | 3.23 | 3.58 | 4.66 | 6.09 | 6.45 | 10.75 | 24.01 |
| 2200 | 1.79 | 3.58 | 3.94 | 5.38 | 6.09 | 8.24 | 11.83 | 24.01 |
| 2230 | 1.79 | 2.51 | 3.94 | 5.02 | 6.45 | 7.53 | 11.83 | 22.58 |
| 2300 | 1.79 | 2.15 | 2.51 | 3.58 | 6.09 | 8.24 | 11.47 | 24.01 |
| 2330 | 0.72 | 1.79 | 2.51 | 3.23 | 6.45 | 8.60 | 12.90 | 22.94 |
| Mean | 0.71 | 1.46 | 1.93 | 2.32 | 4.35 | 7.08 | 12.49 | 23.19 |

According to the climatological table of February the mean percentage of visibility values below 8000 meters is 23.19%, correspondingly, the mean percentage of 76.81% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.71% (See climatological table of February, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | 0.32 | 0.32 | 1.62 | 3.24 | 7.44 |
| 0030 | - | - | - | 0.32 | 0.97 | 1.62 | 3.24 | 7.44 |
| 0100 | - | 0.32 | 0.97 | 0.97 | 1.29 | 1.94 | 2.91 | 6.80 |
| 0130 | - | 0.32 | 0.65 | 0.65 | 0.97 | 1.62 | 2.91 | 7.44 |
| 0200 | - | 0.32 | 0.65 | 0.65 | 1.29 | 1.62 | 2.91 | 8.09 |
| 0230 | - | - | 0.65 | 0.65 | 1.62 | 2.27 | 3.24 | 8.41 |
| 0300 | - | - | 0.65 | 0.97 | 1.94 | 1.94 | 4.21 | 11.97 |
| 0330 | - | 0.65 | 0.97 | 0.97 | 2.27 | 4.21 | 11.65 | 19.09 |
| 0400 | 0.32 | 0.32 | 0.65 | 0.97 | 1.94 | 6.47 | 11.33 | 20.39 |
| 0430 | - | 0.97 | 1.29 | 1.62 | 2.91 | 5.18 | 11.00 | 19.09 |
| 0500 | - | 0.65 | 0.97 | 1.29 | 3.24 | 4.85 | 9.06 | 18.12 |
| 0530 | - | 0.65 | 1.29 | 1.62 | 2.91 | 4.53 | 11.97 | 20.71 |
| 0600 | - | - | 0.32 | 0.32 | 1.62 | 3.24 | 8.09 | 15.53 |
| 0630 | - | - | - | - | 1.29 | 3.88 | 7.44 | 16.18 |
| 0700 | - | - | - | - | 0.97 | 2.91 | 5.83 | 12.62 |
| 0730 | - | - | - | - | 0.32 | 1.62 | 5.50 | 11.65 |
| 0800 | - | - | - | 0.32 | 0.65 | 0.97 | 3.88 | 10.03 |
| 0830 | - | - | - | - | - | 0.65 | 1.62 | 7.77 |
| 0900 | - | - | - | - | - | 0.97 | 1.29 | 7.12 |
| 0930 | - | - | - | - | - | 1.29 | 2.59 | 6.15 |
| 1000 | - | - | - | - | 0.32 | 0.97 | 1.94 | 5.18 |
| 1030 | - | - | - | - | - | 0.97 | 2.59 | 4.85 |
| 1100 | - | - | - | - | 0.32 | 0.97 | 1.29 | 3.88 |
| 1130 | - | - | - | - | 0.32 | 0.65 | 1.62 | 3.88 |
| 1200 | - | - | - | - | 0.32 | 0.97 | 1.62 | 3.24 |
| 1230 | - | - | - | - | 0.32 | 0.97 | 1.94 | 3.88 |
| 1300 | - | - | - | - | - | 0.65 | 2.27 | 4.21 |
| 1330 | - | - | - | - | - | 0.65 | 2.59 | 4.53 |
| 1400 | - | - | - | - | - | 0.65 | 1.62 | 4.21 |
| 1430 | - | - | - | - | - | 0.65 | 1.62 | 3.88 |
| 1500 | - | - | - | - | 0.32 | 0.97 | 1.94 | 4.21 |
| 1530 | - | - | - | - | - | 0.65 | 1.29 | 3.56 |
| 1600 | - | - | - | - | - | 0.32 | 1.29 | 3.88 |
| 1630 | - | - | - | - | - | - | 1.29 | 3.24 |
| 1700 | - | - | 0.32 | 0.32 | 0.32 | 0.32 | 0.97 | 3.24 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1730 | - | - | 0.32 | 0.32 | 0.32 | 0.65 | 0.97 | 3.56 |
| 1800 | - | 0.32 | 0.32 | 0.32 | 0.32 | 0.65 | 1.29 | 3.88 |
| 1830 | - | - | 0.32 | 0.32 | 0.65 | 0.65 | 1.62 | 3.56 |
| 1900 | - | - | 0.32 | 0.32 | 0.65 | 0.65 | 0.97 | 4.21 |
| 1930 | - | - | - | - | 0.32 | 0.65 | 1.29 | 4.85 |
| 2000 | - | - | - | - | - | 0.32 | 2.27 | 5.83 |
| 2030 | - | - | - | - | - | - | 2.27 | 5.83 |
| 2100 | - | - | - | - | - | 0.32 | 1.94 | 6.15 |
| 2130 | - | - | - | - | - | 0.32 | 2.27 | 6.80 |
| 2200 | - | - | - | - | - | - | 2.59 | 7.12 |
| 2230 | - | - | 0.32 | 0.32 | 0.32 | 0.32 | 1.62 | 7.44 |
| 2300 | - | - | - | 0.32 | 0.32 | 1.29 | 1.94 | 6.15 |
| 2330 | - | - | - | - | - | 1.62 | 2.91 | 6.47 |
| Mean | 0.01 | 0.09 | 0.23 | 0.29 | 0.66 | 1.48 | 3.41 | 7.79 |

According to the climatological table of March the mean percentage of visibility values below 8000 meters is 7.79%, correspondingly, the mean percentage of 92.21% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.01% (See climatological table of March, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | 0.34 | 0.34 | 0.34 | 0.34 | 1.01 | 2.35 | 4.03 |
| 0030 | - | 0.33 | 0.33 | 0.33 | 0.33 | 1.00 | 2.67 | 5.33 |
| 0100 | - | 0.34 | 0.34 | 0.34 | 0.34 | 1.01 | 3.36 | 5.03 |
| 0130 | - | 0.34 | 0.34 | 0.34 | 0.34 | 0.67 | 2.68 | 4.70 |
| 0200 | - | 0.66 | 0.99 | 0.99 | 1.32 | 1.65 | 3.30 | 6.27 |
| 0230 | 0.34 | 0.34 | 0.34 | 0.34 | 0.67 | 2.35 | 4.36 | 9.73 |
| 0300 | - | - | 0.33 | 0.33 | 0.67 | 1.67 | 5.35 | 9.36 |
| 0330 | - | 0.34 | 0.34 | 0.34 | 1.02 | 2.71 | 6.10 | 12.88 |
| 0400 | - | - | - | 0.34 | 1.01 | 2.35 | 4.36 | 9.06 |
| 0430 | - | - | - | - | 0.67 | 1.67 | 3.67 | 10.00 |
| 0500 | - | - | - | - | 0.66 | 1.32 | 3.97 | 7.62 |
| 0530 | - | - | - | - | 0.67 | 1.34 | 2.68 | 6.38 |
| 0600 | - | - | 0.34 | 0.34 | 0.67 | 1.68 | 3.69 | 6.71 |
| 0630 | - | - | - | - | - | 1.35 | 2.70 | 6.08 |
| 0700 | - | - | - | - | - | 0.33 | 2.01 | 7.36 |
| 0730 | - | - | - | - | - | 0.68 | 1.02 | 5.76 |
| 0800 | - | - | 0.34 | 0.34 | 0.34 | 0.68 | 1.35 | 4.73 |
| 0830 | - | - | - | - | - | 0.33 | 1.00 | 3.68 |
| 0900 | - | - | - | - | - | 0.33 | 1.67 | 5.00 |
| 0930 | - | - | - | - | - | - | 1.35 | 5.39 |
| 1000 | - | - | - | - | - | 0.34 | 1.34 | 4.70 |
| 1030 | - | - | - | - | - | - | 1.68 | 3.69 |
| 1100 | - | - | - | - | 0.33 | 0.67 | 1.67 | 3.33 |
| 1130 | - | - | - | - | - | 0.66 | 1.32 | 2.98 |
| 1200 | - | - | - | - | - | 0.34 | 1.01 | 1.68 |
| 1230 | - | - | - | - | - | 0.34 | 1.01 | 2.01 |
| 1300 | - | - | - | - | - | - | - | 1.67 |
| 1330 | - | - | - | - | - | 0.34 | 1.35 | 2.36 |
| 1400 | - | - | - | - | - | - | 0.67 | 2.33 |
| 1430 | - | - | - | - | - | 1.00 | 2.00 | 4.33 |
| 1500 | - | - | - | - | - | 0.99 | 1.97 | 3.29 |
| 1530 | - | - | - | - | - | 1.01 | 2.01 | 4.70 |
| 1600 | - | - | - | - | 0.33 | 0.66 | 1.66 | 2.66 |
| 1630 | - | - | - | - | - | - | 1.33 | 1.99 |
| 1700 | - | - | - | - | - | - | 1.33 | 2.33 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1730 | - | - | - | - | - | 0.33 | 1.67 | 3.00 |
| 1800 | - | - | - | - | - | 0.66 | 0.99 | 2.65 |
| 1830 | - | - | - | - | 0.33 | 1.00 | 1.66 | 2.99 |
| 1900 | - | - | - | - | 0.66 | 0.66 | 1.32 | 3.29 |
| 1930 | - | - | - | - | - | 1.32 | 1.65 | 3.63 |
| 2000 | - | - | - | - | 0.33 | 1.00 | 1.33 | 3.33 |
| 2030 | - | - | - | - | - | 0.67 | 1.67 | 3.00 |
| 2100 | - | - | - | - | - | 0.33 | 1.97 | 2.96 |
| 2130 | - | - | - | - | - | 0.33 | 1.32 | 3.64 |
| 2200 | - | - | - | - | - | 0.66 | 1.66 | 3.99 |
| 2230 | - | - | - | - | - | 1.00 | 1.67 | 3.67 |
| 2300 | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.67 | 1.67 | 3.33 |
| 2330 | - | 0.33 | 0.67 | 0.67 | 0.67 | 0.67 | 1.67 | 3.33 |
| Mean | 0.01 | 0.07 | 0.10 | 0.11 | 0.25 | 0.83 | 2.09 | 4.62 |

According to the climatological table of April the mean percentage of visibility values below 8000 meters is 4.62%, correspondingly, the mean percentage of 95.38% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.01% (See climatological table of April, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | - | - | 0.66 |
| 0030 | - | - | - | - | - | - | 0.32 | 0.64 |
| 0100 | - | - | - | - | - | - | - | 0.32 |
| 0130 | - | - | - | 0.32 | 0.32 | 0.65 | 0.97 | 1.62 |
| 0200 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.97 | 1.61 | 1.94 |
| 0230 | - | - | - | - | - | 0.32 | 0.95 | 2.22 |
| 0300 | - | - | - | - | - | - | 0.98 | 2.94 |
| 0330 | - | - | - | - | - | - | 0.65 | 3.23 |
| 0400 | - | - | - | - | - | - | 0.65 | 2.91 |
| 0430 | - | - | - | - | - | - | 0.98 | 2.61 |
| 0500 | - | - | - | - | - | - | 0.65 | 2.59 |
| 0530 | - | - | - | - | - | - | - | 3.25 |
| 0600 | - | - | - | - | - | - | - | 2.60 |
| 0630 | - | - | - | - | - | - | 0.32 | 1.93 |
| 0700 | - | - | - | - | - | - | 0.33 | 1.64 |
| 0730 | - | - | - | - | - | - | 0.33 | 2.28 |
| 0800 | - | - | - | - | - | 0.33 | 0.33 | 1.30 |
| 0830 | - | - | - | - | - | - | 0.32 | 0.97 |
| 0900 | - | - | - | - | - | - | 0.33 | 0.65 |
| 0930 | - | - | - | - | - | - | 0.33 | 0.99 |
| 1000 | - | - | - | - | - | - | 0.66 | 1.33 |
| 1030 | - | - | - | - | - | - | 0.33 | 1.32 |
| 1100 | - | - | - | - | - | - | 0.67 | 1.00 |
| 1130 | - | - | - | - | - | - | 0.33 | 0.98 |
| 1200 | - | - | - | - | - | - | 0.66 | 1.31 |
| 1230 | - | - | - | - | - | - | 0.66 | 1.65 |
| 1300 | - | - | - | - | - | - | - | 1.31 |
| 1330 | - | - | - | - | - | - | - | 0.99 |
| 1400 | - | - | - | - | - | - | - | 0.99 |
| 1430 | - | - | - | - | - | - | 0.33 | 1.31 |
| 1500 | - | - | - | - | - | - | 0.33 | 0.33 |
| 1530 | - | - | - | - | 0.33 | 0.33 | 0.33 | 1.31 |
| 1600 | - | - | - | - | - | - | 0.65 | 1.30 |
| 1630 | - | - | - | - | - | 0.32 | 0.32 | 0.97 |
| 1700 | - | - | - | - | - | - | 0.33 | 0.66 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1730 | - | - | - | - | - | - | - | 0.32 |
| 1800 | - | - | - | - | - | - | 0.32 | 0.32 |
| 1830 | - | - | - | - | - | - | - | 0.33 |
| 1900 | - | - | - | - | - | - | - | 0.32 |
| 1930 | - | - | - | - | - | - | - | 0.97 |
| 2000 | - | - | - | - | - | - | - | 0.97 |
| 2030 | - | - | - | - | - | - | - | 0.33 |
| 2100 | - | - | - | - | - | - | - | 0.64 |
| 2130 | - | - | - | - | - | 0.32 | 0.32 | 0.65 |
| 2200 | - | - | - | - | - | 0.31 | 0.31 | 0.94 |
| 2230 | - | - | - | - | - | - | 0.65 | 1.30 |
| 2300 | - | - | - | - | - | - | 0.32 | 1.29 |
| 2330 | - | - | - | - | - | - | 0.33 | 1.64 |
| Mean | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.07 | 0.37 | 1.33 |

According to the climatological table of May the mean percentage of visibility values below 8000 meters is 1.33%, correspondingly, the mean percentage of 98.67% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.01% (See climatological table of May, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | - | - | - |
| 0030 | - | - | - | - | - | - | - | - |
| 0100 | - | - | - | - | - | - | - | 0.33 |
| 0130 | - | - | - | - | - | - | 0.33 | 1.33 |
| 0200 | - | - | - | - | - | - | - | 0.66 |
| 0230 | - | - | - | - | - | - | 0.33 | 0.99 |
| 0300 | - | - | - | - | - | - | 0.33 | 0.66 |
| 0330 | - | - | - | - | - | - | 0.33 | 0.98 |
| 0400 | - | - | - | - | - | - | 0.33 | 0.66 |
| 0430 | - | - | - | - | - | - | - | 0.33 |
| 0500 | - | - | - | - | - | - | - | 0.33 |
| 0530 | - | - | - | - | - | - | - | - |
| 0600 | - | - | - | - | - | - | - | - |
| 0630 | - | - | - | - | - | 0.33 | 0.33 | 0.33 |
| 0700 | - | - | - | - | - | - | - | 0.33 |
| 0730 | - | - | - | - | - | - | - | - |
| 0800 | - | - | - | - | - | - | - | - |
| 0830 | - | - | - | - | - | - | - | - |
| 0900 | - | - | - | - | - | - | - | - |
| 0930 | - | - | - | - | - | - | - | - |
| 1000 | - | - | - | - | - | - | 0.33 | 0.33 |
| 1030 | - | - | - | - | 0.33 | 0.33 | 0.33 | 0.33 |
| 1100 | - | - | - | - | - | - | 0.33 | 0.33 |
| 1130 | - | - | - | - | 0.33 | 0.33 | 0.66 | 0.66 |
| 1200 | - | - | - | - | - | - | - | 0.33 |
| 1230 | - | - | - | - | - | - | - | 0.33 |
| 1300 | - | - | - | - | - | - | - | - |
| 1330 | - | - | - | - | - | - | 0.33 | 0.66 |
| 1400 | - | - | - | - | - | - | - | 0.33 |
| 1430 | - | - | - | - | - | - | - | - |
| 1500 | - | - | - | - | - | 0.33 | 0.67 | 0.67 |
| 1530 | - | - | - | - | - | 0.33 | 0.66 | 1.33 |
| 1600 | - | - | - | - | - | - | - | 0.33 |
| 1630 | - | - | - | - | - | 0.33 | 0.66 | 1.00 |
| 1700 | - | - | - | - | - | - | - | - |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1730 | - | - | - | - | - | - | - | 0.33 |
| 1800 | - | - | - | - | - | - | - | 0.66 |
| 1830 | - | - | - | - | - | - | 0.33 | 0.66 |
| 1900 | - | - | - | - | - | - | - | 0.33 |
| 1930 | - | - | - | - | - | 0.33 | 0.33 | 1.32 |
| 2000 | - | - | - | - | - | 0.33 | 0.66 | 0.66 |
| 2030 | - | - | - | - | - | - | 0.33 | 0.66 |
| 2100 | - | - | - | - | - | - | - | 0.33 |
| 2130 | - | - | - | - | - | - | - | 0.33 |
| 2200 | - | - | - | - | - | - | - | 0.33 |
| 2230 | - | - | - | - | - | - | 0.66 | 0.66 |
| 2300 | - | - | - | - | - | - | - | 0.33 |
| 2330 | - | - | - | - | - | - | - | - |
| Mean | - | - | - | - | 0.01 | 0.06 | 0.17 | 0.42 |

According to the climatological table of June the mean percentage of visibility values below 8000 meters is 0.42%, correspondingly, the mean percentage of 99.58% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.01% (See climatological table of June, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | - | - | - |
| 0030 | - | - | - | - | - | - | - | 0.32 |
| 0100 | - | - | - | - | - | - | - | 0.32 |
| 0130 | - | - | - | - | 0.32 | 0.32 | 0.32 | 0.65 |
| 0200 | - | - | - | - | - | - | 0.32 | 0.64 |
| 0230 | - | - | - | - | - | - | 0.33 | 0.98 |
| 0300 | - | - | - | - | - | 0.32 | 0.64 | 0.64 |
| 0330 | - | - | - | - | - | - | 0.32 | 0.32 |
| 0400 | - | - | - | - | - | - | 0.32 | 0.32 |
| 0430 | - | - | - | - | - | - | 0.32 | 0.65 |
| 0500 | - | - | - | - | - | - | 0.32 | 0.64 |
| 0530 | - | - | - | - | - | - | 0.65 | 0.65 |
| 0600 | - | - | - | - | - | - | 0.65 | 0.98 |
| 0630 | - | - | - | - | - | 0.33 | 0.33 | 0.66 |
| 0700 | - | - | - | - | - | - | 0.32 | 0.32 |
| 0730 | - | - | - | - | - | 0.32 | 0.32 | 0.65 |
| 0800 | - | - | - | - | - | - | - | 0.32 |
| 0830 | - | - | - | - | - | - | 0.33 | 0.33 |
| 0900 | - | - | - | - | - | - | 0.33 | 0.33 |
| 0930 | - | - | - | - | - | - | - | 0.65 |
| 1000 | - | - | - | - | - | - | - | - |
| 1030 | - | - | - | - | - | - | - | - |
| 1100 | - | - | - | - | - | - | - | - |
| 1130 | - | - | - | - | - | - | - | - |
| 1200 | - | - | - | - | - | - | - | - |
| 1230 | - | - | - | - | - | - | - | - |
| 1300 | - | - | - | - | - | - | - | - |
| 1330 | - | - | - | - | - | - | - | - |
| 1400 | - | - | - | - | - | - | - | - |
| 1430 | - | - | - | - | - | - | 0.32 | 0.65 |
| 1500 | - | - | - | - | - | - | - | 0.65 |
| 1530 | - | - | - | - | - | - | 0.33 | 0.33 |
| 1600 | - | - | - | - | - | - | - | - |
| 1630 | - | - | - | - | - | 0.33 | 1.33 | 2.33 |
| 1700 | - | - | - | - | - | 0.33 | 0.33 | 0.33 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1730 | - | - | - | - | - | 0.33 | 0.33 | 0.33 |
| 1800 | - | - | - | - | - | - | - | - |
| 1830 | - | - | - | - | - | - | - | 0.32 |
| 1900 | - | - | - | - | - | - | - | - |
| 1930 | - | - | - | - | - | - | - | - |
| 2000 | - | - | - | - | - | - | - | - |
| 2030 | - | - | - | - | - | - | - | - |
| 2100 | - | - | - | - | - | - | - | - |
| 2130 | - | - | - | - | - | - | 0.32 | 0.32 |
| 2200 | - | - | - | - | - | - | - | - |
| 2230 | - | - | - | - | - | - | - | - |
| 2300 | - | - | - | - | - | - | - | - |
| 2330 | - | - | - | - | - | - | - | - |
| Mean | - | - | - | - | 0.01 | 0.05 | 0.18 | 0.33 |

According to the climatological table of July the mean percentage of visibility values below 8000 meters is 0.33%, correspondingly, the mean percentage of 99.67% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.01% (See climatological table of July, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | - | - | - |
| 0030 | - | - | - | - | - | - | - | - |
| 0100 | - | - | - | - | - | - | 0.33 | 0.33 |
| 0130 | - | - | - | - | - | - | 0.33 | 0.66 |
| 0200 | - | - | - | - | - | - | 0.67 | 1.00 |
| 0230 | - | - | - | - | - | 0.33 | 0.66 | 1.65 |
| 0300 | - | - | - | - | - | 0.33 | 0.33 | 0.66 |
| 0330 | - | - | - | - | - | 0.33 | 0.33 | 0.66 |
| 0400 | - | - | - | - | - | 0.33 | 0.33 | 0.66 |
| 0430 | - | - | - | - | - | 0.33 | 1.00 | 1.00 |
| 0500 | - | - | - | - | - | 0.32 | 0.32 | 0.65 |
| 0530 | - | - | - | - | - | 0.33 | 0.33 | 0.66 |
| 0600 | - | - | - | - | - | - | 0.98 | 1.31 |
| 0630 | - | - | - | - | - | - | 0.66 | 0.99 |
| 0700 | - | - | - | - | - | 0.33 | 0.33 | 0.66 |
| 0730 | - | - | - | - | - | - | 0.33 | 1.32 |
| 0800 | - | - | - | - | - | 0.33 | 0.33 | 0.99 |
| 0830 | - | - | - | - | - | - | - | - |
| 0900 | - | - | - | - | - | - | - | 0.33 |
| 0930 | - | - | - | - | - | - | 0.33 | 0.33 |
| 1000 | - | - | - | - | - | - | - | - |
| 1030 | - | - | - | - | - | - | 0.33 | 0.33 |
| 1100 | - | - | - | - | - | - | - | - |
| 1130 | - | - | - | - | - | 0.33 | 0.33 | 0.33 |
| 1200 | - | - | - | - | - | - | 0.33 | 0.33 |
| 1230 | - | - | - | - | - | - | - | 0.33 |
| 1300 | - | - | - | - | - | - | 0.33 | 0.33 |
| 1330 | - | - | - | - | - | - | - | 0.33 |
| 1400 | - | - | - | - | - | - | - | 0.33 |
| 1430 | - | - | - | - | - | - | - | 0.33 |
| 1500 | - | - | - | - | - | - | - | 0.33 |
| 1530 | - | - | - | - | - | - | - | - |
| 1600 | - | - | - | - | - | - | - | - |
| 1630 | - | - | - | - | - | - | - | - |
| 1700 | - | - | - | - | - | - | 0.33 | 0.66 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1730 | - | - | - | - | - | - | - | 0.34 |
| 1800 | - | - | - | - | - | - | - | 0.33 |
| 1830 | - | - | - | - | - | - | - | 0.34 |
| 1900 | - | - | - | - | - | 0.33 | 0.33 | 0.33 |
| 1930 | - | - | - | - | - | 0.34 | 0.34 | 0.68 |
| 2000 | - | - | - | - | - | - | - | 0.33 |
| 2030 | - | - | - | - | - | - | 0.33 | 0.33 |
| 2100 | - | - | - | - | - | - | - | - |
| 2130 | - | - | - | - | - | 0.33 | 0.66 | 0.66 |
| 2200 | - | - | - | - | - | - | 0.33 | 0.33 |
| 2230 | - | - | - | - | - | - | - | 1.64 |
| 2300 | - | - | - | - | - | - | - | 0.66 |
| 2330 | - | - | - | - | - | - | - | 0.33 |
| Mean | - | - | - | - | - | 0.09 | 0.23 | 0.50 |

According to the climatological table of August the mean percentage of visibility values below 8000 meters is 0.50%, correspondingly, the mean percentage of 99.50% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 3000 meters is 0.09% (See climatological table of August, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | - | 0.34 | 0.68 |
| 0030 | - | - | - | - | - | - | 0.34 | 0.67 |
| 0100 | - | - | - | - | - | - | - | 0.66 |
| 0130 | - | - | - | - | - | - | - | 0.99 |
| 0200 | - | - | - | - | - | - | - | 1.33 |
| 0230 | - | - | - | - | - | - | - | 1.65 |
| 0300 | - | - | - | - | - | - | 0.34 | 2.68 |
| 0330 | - | - | - | - | - | - | 0.67 | 2.02 |
| 0400 | - | - | - | - | - | - | 0.67 | 2.00 |
| 0430 | - | - | - | - | - | - | 1.01 | 2.68 |
| 0500 | - | - | - | - | - | - | 0.67 | 1.67 |
| 0530 | - | - | - | - | - | 0.34 | 1.37 | 2.73 |
| 0600 | - | - | - | - | - | - | 0.67 | 2.34 |
| 0630 | - | - | - | - | - | - | 0.99 | 1.32 |
| 0700 | - | - | - | - | - | 0.33 | 0.33 | 1.33 |
| 0730 | - | - | - | - | - | - | 0.34 | 1.02 |
| 0800 | - | - | - | - | - | - | 0.33 | 1.00 |
| 0830 | - | - | - | - | - | - | - | 0.68 |
| 0900 | - | - | - | - | - | - | - | 0.33 |
| 0930 | - | - | - | - | - | - | - | 0.34 |
| 1000 | - | - | - | - | - | - | - | 0.34 |
| 1030 | - | - | - | - | - | - | - | 0.33 |
| 1100 | - | - | - | - | - | - | - | 1.01 |
| 1130 | - | - | - | - | - | - | - | 0.34 |
| 1200 | - | - | - | - | - | - | - | 0.33 |
| 1230 | - | - | - | - | - | - | - | 0.33 |
| 1300 | - | - | - | - | - | 0.68 | 0.68 | 0.68 |
| 1330 | - | - | - | - | - | 0.34 | 0.34 | 0.67 |
| 1400 | - | - | - | - | 0.67 | 0.67 | 0.67 | 1.34 |
| 1430 | - | - | - | - | - | 0.33 | 0.33 | 1.67 |
| 1500 | - | - | - | - | - | - | - | 0.67 |
| 1530 | - | - | - | - | - | 0.34 | 0.34 | 0.34 |
| 1600 | - | - | - | - | - | 0.33 | 0.33 | 0.67 |
| 1630 | - | - | - | - | - | 0.34 | 0.34 | 1.35 |
| 1700 | - | - | - | - | - | - | 0.34 | 1.01 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1730 | - | - | - | - | - | - | - | 1.33 |
| 1800 | - | - | - | - | - | - | 0.66 | 1.00 |
| 1830 | - | - | - | - | - | 0.33 | 0.33 | 1.66 |
| 1900 | - | - | - | - | - | - | 0.33 | 1.34 |
| 1930 | - | - | - | - | - | - | 0.34 | 0.67 |
| 2000 | - | - | - | - | - | - | 0.33 | 0.67 |
| 2030 | - | - | - | - | - | - | 0.67 | 0.67 |
| 2100 | - | - | - | - | - | 0.33 | 0.67 | 0.67 |
| 2130 | - | - | - | - | - | 0.33 | 1.00 | 1.00 |
| 2200 | - | - | - | - | - | - | 0.66 | 0.66 |
| 2230 | - | - | - | - | - | - | 0.68 | 0.68 |
| 2300 | - | - | - | - | - | - | 0.33 | 0.66 |
| 2330 | - | - | - | - | - | - | 0.33 | 1.33 |
| Mean | - | - | - | - | 0.01 | 0.10 | 0.37 | 1.07 |

According to the climatological table of September the mean percentage of visibility values below 8000 meters is 1.07%, correspondingly, the mean percentage of 98.93% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.01% (See climatological table of September, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | 0.33 | 1.64 | 6.25 |
| 0030 | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.98 | 1.95 | 5.86 |
| 0100 | - | 0.64 | 0.64 | 0.64 | 1.28 | 1.60 | 3.19 | 6.39 |
| 0130 | - | 0.33 | 0.33 | 0.33 | 0.65 | 1.30 | 3.91 | 7.17 |
| 0200 | - | - | 0.32 | 0.32 | 0.32 | 0.96 | 3.83 | 6.39 |
| 0230 | - | - | - | - | 0.32 | 0.97 | 3.57 | 7.47 |
| 0300 | - | 0.32 | 0.32 | 0.32 | 0.32 | 0.97 | 4.52 | 7.74 |
| 0330 | - | - | 0.33 | 0.33 | 0.66 | 3.63 | 6.93 | 10.56 |
| 0400 | - | - | - | 0.33 | 0.99 | 2.96 | 6.25 | 9.87 |
| 0430 | - | - | - | 0.33 | 0.98 | 3.92 | 6.21 | 9.48 |
| 0500 | - | - | - | - | 0.33 | 2.28 | 5.21 | 11.07 |
| 0530 | - | - | 0.33 | 0.33 | 0.99 | 2.30 | 5.92 | 9.87 |
| 0600 | - | - | - | - | 0.33 | 2.29 | 5.56 | 9.80 |
| 0630 | - | - | - | - | 0.33 | 1.98 | 3.63 | 8.25 |
| 0700 | - | - | - | - | 0.33 | 1.64 | 3.95 | 6.91 |
| 0730 | - | - | - | - | - | 1.32 | 4.28 | 6.91 |
| 0800 | - | - | - | - | - | 0.66 | 2.96 | 5.59 |
| 0830 | - | - | - | - | - | 1.00 | 2.33 | 4.33 |
| 0900 | - | - | - | - | - | 0.65 | 1.63 | 2.61 |
| 0930 | - | - | - | - | - | 0.66 | 1.65 | 2.64 |
| 1000 | - | - | - | - | - | 0.99 | 1.65 | 3.63 |
| 1030 | - | - | - | - | - | - | 1.32 | 3.30 |
| 1100 | - | - | - | - | - | 0.33 | 1.31 | 2.62 |
| 1130 | - | - | - | - | - | 0.66 | 1.32 | 2.64 |
| 1200 | - | - | - | - | - | 0.66 | 1.64 | 3.29 |
| 1230 | - | - | - | - | 0.33 | 0.98 | 1.31 | 4.25 |
| 1300 | - | - | - | - | - | 0.32 | 1.30 | 2.92 |
| 1330 | - | - | - | - | - | - | - | 2.30 |
| 1400 | - | - | - | - | - | - | 1.30 | 3.25 |
| 1430 | - | - | - | - | - | - | 0.98 | 2.94 |
| 1500 | - | - | - | - | - | - | - | 0.98 |
| 1530 | - | - | - | - | - | - | - | 0.97 |
| 1600 | - | - | - | - | - | 0.32 | 0.32 | 2.25 |
| 1630 | - | - | - | - | - | - | - | 1.95 |
| 1700 | - | - | - | - | - | - | - | 2.93 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1730 | - | - | - | - | - | - | 0.32 | 2.27 |
| 1800 | - | - | - | - | - | - | - | 3.25 |
| 1830 | - | - | - | - | - | 0.33 | 0.66 | 2.96 |
| 1900 | - | - | - | - | - | - | 0.98 | 3.58 |
| 1930 | - | - | - | 0.32 | 0.32 | 0.32 | 0.97 | 3.90 |
| 2000 | - | - | - | - | - | 0.33 | 0.65 | 4.25 |
| 2030 | - | - | - | - | - | - | 0.65 | 3.26 |
| 2100 | - | - | - | - | - | 0.33 | 1.31 | 4.92 |
| 2130 | - | - | - | - | - | - | 2.98 | 5.63 |
| 2200 | - | 0.33 | 0.33 | 0.33 | 0.66 | 0.66 | 1.64 | 4.61 |
| 2230 | 0.33 | 0.33 | 0.33 | 0.33 | 0.65 | 0.98 | 2.29 | 5.56 |
| 2300 | - | - | - | - | 0.32 | 0.65 | 2.59 | 6.15 |
| 2330 | - | - | - | - | 0.33 | 0.66 | 2.97 | 6.27 |
| Mean | 0.01 | 0.05 | 0.07 | 0.09 | 0.22 | 0.85 | 2.28 | 5.04 |

According to the climatological table of October the mean percentage of visibility values below 8000 meters is 5.04%, correspondingly, the mean percentage of 94.96% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.01% (See climatological table of October, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | 0.33 | 1.00 | 1.00 | 1.67 | 4.35 | 8.03 | 15.38 |
| 0030 | - | - | 0.67 | 1.01 | 1.35 | 4.04 | 8.42 | 15.49 |
| 0100 | - | - | - | 0.33 | 1.99 | 5.30 | 8.61 | 16.23 |
| 0130 | - | - | 0.66 | 0.99 | 1.32 | 4.64 | 8.61 | 16.89 |
| 0200 | - | 0.33 | 0.66 | 0.66 | 1.99 | 4.97 | 9.27 | 18.54 |
| 0230 | - | - | 0.66 | 1.00 | 1.33 | 3.32 | 6.98 | 15.61 |
| 0300 | - | 0.67 | 1.00 | 1.33 | 2.33 | 3.00 | 4.67 | 14.67 |
| 0330 | 0.33 | 1.32 | 2.30 | 2.30 | 2.96 | 4.28 | 9.21 | 19.41 |
| 0400 | - | 1.67 | 2.34 | 2.34 | 4.68 | 8.36 | 16.39 | 28.43 |
| 0430 | 0.33 | 0.99 | 1.98 | 2.97 | 6.27 | 9.57 | 17.16 | 29.37 |
| 0500 | - | 1.00 | 1.66 | 2.66 | 5.32 | 10.96 | 16.94 | 28.90 |
| 0530 | - | 0.34 | 0.67 | 1.01 | 4.36 | 8.72 | 16.11 | 27.18 |
| 0600 | 0.34 | 1.01 | 1.34 | 1.34 | 3.69 | 7.72 | 15.10 | 26.51 |
| 0630 | 0.33 | 1.00 | 1.34 | 1.67 | 2.68 | 5.02 | 13.04 | 23.41 |
| 0700 | - | 0.33 | 0.98 | 0.98 | 1.97 | 3.93 | 11.48 | 23.28 |
| 0730 | 0.34 | 0.34 | 0.67 | 1.01 | 1.68 | 3.37 | 9.43 | 21.55 |
| 0800 | - | 0.33 | 0.67 | 1.00 | 1.67 | 3.00 | 9.00 | 20.33 |
| 0830 | - | 0.33 | 0.33 | 0.67 | 1.67 | 2.34 | 8.03 | 17.39 |
| 0900 | - | - | 0.33 | 0.33 | 1.00 | 2.34 | 7.36 | 13.38 |
| 0930 | - | - | 0.34 | 0.34 | 0.67 | 3.02 | 8.05 | 13.76 |
| 1000 | - | - | 0.66 | 0.66 | 1.00 | 3.65 | 7.97 | 12.96 |
| 1030 | - | - | - | 0.83 | 0.83 | 2.50 | 6.67 | 15.00 |
| 1100 | - | 0.33 | 0.33 | 0.33 | 0.67 | 3.68 | 5.69 | 10.37 |
| 1130 | - | - | - | 0.33 | 1.00 | 3.68 | 6.35 | 10.03 |
| 1200 | - | - | - | 0.33 | 0.66 | 3.63 | 5.94 | 12.54 |
| 1230 | - | - | 0.34 | 0.34 | 1.36 | 3.73 | 5.76 | 13.56 |
| 1300 | - | - | - | - | 1.32 | 3.30 | 5.94 | 17.82 |
| 1330 | - | - | - | 0.33 | 0.66 | 3.64 | 7.28 | 18.21 |
| 1400 | - | - | - | - | 0.34 | 1.34 | 7.72 | 16.78 |
| 1430 | - | - | - | 0.33 | 0.33 | 1.33 | 3.65 | 10.63 |
| 1500 | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.67 | 2.68 | 10.03 |
| 1530 | - | 0.33 | 0.33 | 0.33 | 0.33 | 1.00 | 3.34 | 10.37 |
| 1600 | - | 0.33 | 0.33 | 0.33 | 0.67 | 1.67 | 4.01 | 9.70 |
| 1630 | - | - | 0.66 | 0.66 | 0.66 | 1.32 | 3.97 | 10.60 |
| 1700 | - | - | - | - | 0.33 | 1.00 | 4.32 | 9.30 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1730 | - | 0.33 | 0.33 | 0.33 | 1.00 | 1.66 | 3.99 | 9.63 |
| 1800 | - | - | 0.34 | 0.34 | 0.34 | 1.68 | 3.36 | 11.07 |
| 1830 | - | 0.33 | 0.33 | 0.33 | 0.66 | 1.33 | 3.99 | 12.29 |
| 1900 | - | - | 0.33 | 0.66 | 0.99 | 1.66 | 5.30 | 12.58 |
| 1930 | - | - | 0.33 | 0.33 | 0.67 | 2.00 | 4.33 | 12.00 |
| 2000 | - | - | 0.33 | 0.33 | 0.99 | 2.64 | 5.61 | 13.86 |
| 2030 | - | - | - | - | 0.99 | 2.64 | 6.60 | 14.19 |
| 2100 | - | - | - | 0.33 | 1.64 | 3.28 | 8.52 | 15.74 |
| 2130 | - | - | - | - | 1.33 | 3.32 | 7.31 | 13.62 |
| 2200 | - | - | - | - | 1.33 | 3.32 | 7.64 | 14.95 |
| 2230 | - | - | - | - | 0.67 | 4.03 | 7.72 | 16.11 |
| 2300 | - | - | - | 1.01 | 1.35 | 4.38 | 8.08 | 14.81 |
| 2330 | - | - | 1.33 | 1.33 | 1.66 | 4.32 | 8.31 | 15.61 |
| Mean | 0.03 | 0.25 | 0.54 | 0.73 | 1.56 | 3.64 | 7.79 | 16.04 |

According to the climatological table of November the mean percentage of visibility values below 8000 meters is 16.04%, correspondingly, the mean percentage of 83.96% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.03% (See climatological table of November, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGTB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

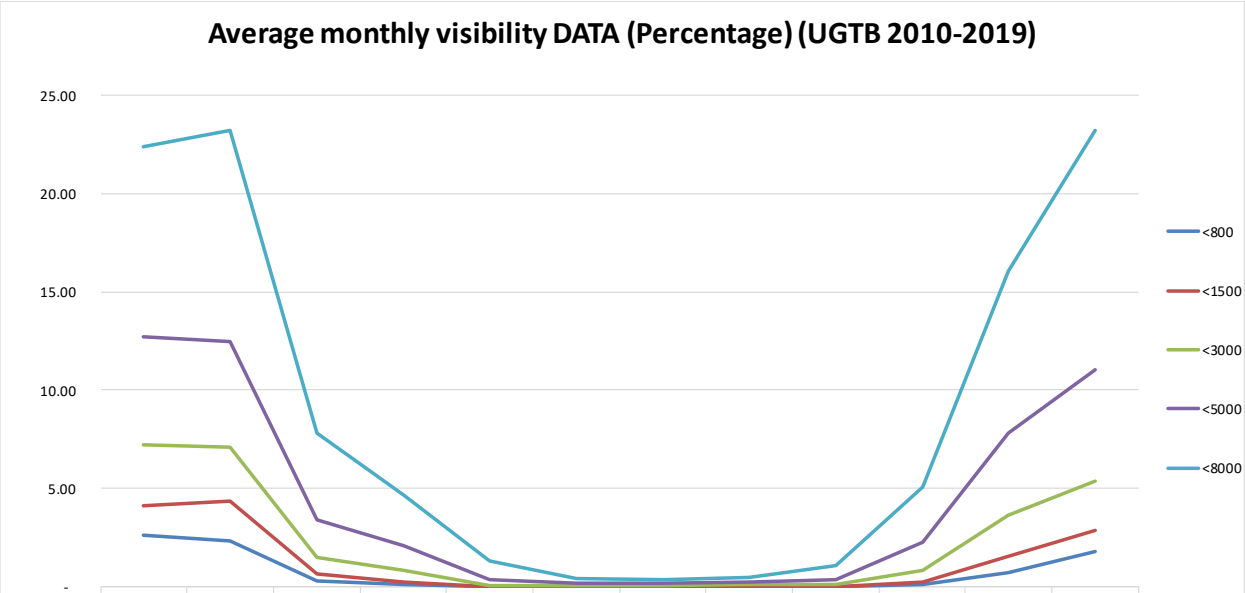
LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | 0.65 | 1.62 | 2.59 | 2.59 | 4.21 | 6.15 | 11.65 | 22.33 |
| 0030 | 0.32 | 1.94 | 2.26 | 2.90 | 4.84 | 6.77 | 10.32 | 22.90 |
| 0100 | 0.32 | 2.91 | 3.88 | 3.88 | 5.18 | 8.09 | 12.30 | 22.33 |
| 0130 | 0.32 | 2.88 | 3.85 | 4.17 | 4.81 | 8.01 | 11.54 | 22.44 |
| 0200 | 0.98 | 2.61 | 4.25 | 4.58 | 5.88 | 6.54 | 9.15 | 21.24 |
| 0230 | 0.63 | 0.95 | 2.22 | 3.17 | 4.76 | 6.98 | 10.79 | 20.63 |
| 0300 | 1.30 | 1.95 | 3.91 | 3.91 | 4.89 | 8.14 | 10.75 | 19.54 |
| 0330 | 0.65 | 1.94 | 3.87 | 4.19 | 5.16 | 7.10 | 11.61 | 21.29 |
| 0400 | 0.32 | 1.29 | 2.58 | 2.90 | 4.19 | 6.13 | 12.58 | 21.61 |
| 0430 | 0.33 | 1.63 | 2.28 | 3.26 | 5.54 | 11.40 | 19.54 | 31.27 |
| 0500 | 0.65 | 1.95 | 3.25 | 3.57 | 6.49 | 10.06 | 19.48 | 31.49 |
| 0530 | 0.32 | 1.62 | 2.92 | 3.90 | 6.82 | 11.36 | 20.13 | 29.87 |
| 0600 | - | 0.98 | 1.30 | 1.63 | 5.86 | 10.42 | 18.24 | 29.64 |
| 0630 | 0.33 | 0.98 | 1.31 | 1.31 | 2.95 | 9.51 | 17.70 | 28.85 |
| 0700 | 0.65 | 1.30 | 1.62 | 1.62 | 3.25 | 10.06 | 17.21 | 27.92 |
| 0730 | 0.33 | 0.98 | 0.98 | 1.63 | 2.94 | 7.52 | 14.05 | 27.12 |
| 0800 | 0.32 | 0.32 | 0.65 | 0.97 | 3.23 | 5.48 | 13.87 | 24.19 |
| 0830 | - | - | - | 0.33 | 1.97 | 3.61 | 11.15 | 20.98 |
| 0900 | - | - | - | - | 0.66 | 3.61 | 9.51 | 19.02 |
| 0930 | - | - | - | 0.32 | 0.65 | 2.59 | 9.06 | 16.83 |
| 1000 | - | - | - | - | 0.65 | 2.94 | 8.17 | 16.99 |
| 1030 | - | - | - | - | 0.64 | 2.25 | 7.40 | 16.40 |
| 1100 | - | - | 0.33 | 0.33 | 0.33 | 2.28 | 6.84 | 17.59 |
| 1130 | - | - | - | - | 0.33 | 2.28 | 7.17 | 17.59 |
| 1200 | - | - | - | - | 0.33 | 3.32 | 7.31 | 18.94 |
| 1230 | - | - | - | - | 0.65 | 3.24 | 9.71 | 22.98 |
| 1300 | - | - | - | - | - | 3.58 | 12.70 | 27.04 |
| 1330 | - | - | - | - | - | 3.28 | 9.51 | 28.85 |
| 1400 | - | - | - | - | 0.33 | 2.61 | 7.84 | 23.86 |
| 1430 | - | - | - | - | - | 1.59 | 7.64 | 22.93 |
| 1500 | - | - | - | - | 0.33 | 1.97 | 7.57 | 25.99 |
| 1530 | 0.32 | 0.64 | 0.64 | 0.64 | 0.96 | 2.88 | 7.05 | 23.72 |
| 1600 | 0.33 | 0.65 | 1.30 | 1.30 | 1.95 | 3.26 | 7.82 | 21.50 |
| 1630 | 0.65 | 0.97 | 0.97 | 1.30 | 1.95 | 3.57 | 8.44 | 23.05 |
| 1700 | 0.65 | 0.97 | 0.97 | 0.97 | 1.61 | 2.90 | 9.03 | 22.90 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1730 | 0.65 | 0.65 | 0.98 | 0.98 | 0.98 | 2.29 | 8.50 | 23.20 |
| 1800 | 0.32 | 0.65 | 1.30 | 1.30 | 1.30 | 3.25 | 7.47 | 23.05 |
| 1830 | 0.32 | 0.32 | 0.65 | 0.65 | 1.95 | 3.57 | 7.47 | 21.43 |
| 1900 | 0.32 | 0.32 | 0.97 | 1.62 | 2.27 | 3.88 | 7.77 | 21.36 |
| 1930 | 0.65 | 0.65 | 0.97 | 1.62 | 2.27 | 4.85 | 9.71 | 21.04 |
| 2000 | 1.30 | 1.95 | 2.60 | 2.60 | 4.22 | 6.82 | 10.39 | 23.70 |
| 2030 | 1.30 | 1.63 | 2.28 | 2.28 | 3.26 | 5.86 | 11.73 | 23.45 |
| 2100 | 1.31 | 1.97 | 2.95 | 3.28 | 4.92 | 6.89 | 12.46 | 23.28 |
| 2130 | 1.29 | 1.94 | 2.90 | 2.90 | 3.87 | 5.81 | 12.26 | 24.52 |
| 2200 | 1.29 | 2.57 | 2.89 | 2.89 | 3.86 | 5.79 | 11.25 | 24.76 |
| 2230 | 0.33 | 2.29 | 2.94 | 3.27 | 4.90 | 5.56 | 10.78 | 24.84 |
| 2300 | 0.65 | 2.61 | 3.26 | 3.58 | 5.54 | 7.17 | 13.03 | 23.78 |
| 2330 | 1.64 | 1.64 | 1.64 | 2.46 | 3.28 | 3.28 | 13.11 | 25.41 |
| Mean | 0.45 | 1.05 | 1.55 | 1.77 | 2.85 | 5.34 | 11.06 | 23.24 |

According to the climatological table of December the mean percentage of visibility values below 8000 meters is 23.24%, correspondingly, the mean percentage of 76.76% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.45% (See climatological table of December, Model B).




| | January Mean % | Feburuary Mean % | March Mean % | April Mean % | May Mean % | June Mean % | July Mean % | August Mean % | September Mean % | October Mean % | November Mean % | December Mean % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <800 | 2.61 | 2.32 | 0.29 | 0.11 | 0.01 | - | - | - | - | 0.09 | 0.73 | 1.77 |
| <1500 | 4.12 | 4.35 | 0.66 | 0.25 | 0.02 | 0.01 | 0.01 | - | 0.01 | 0.22 | 1.56 | 2.85 |
| <3000 | 7.22 | 7.08 | 1.48 | 0.83 | 0.07 | 0.06 | 0.05 | 0.09 | 0.10 | 0.85 | 3.64 | 5.34 |
| <5000 | 12.71 | 12.49 | 3.41 | 2.09 | 0.37 | 0.17 | 0.18 | 0.23 | 0.37 | 2.28 | 7.79 | 11.06 |
| <8000 | 22.37 | 23.19 | 7.79 | 4.62 | 1.33 | 0.42 | 0.33 | 0.50 | 1.07 | 5.04 | 16.04 | 23.24 |

## AERONAUTICAL CLIMATOLOGY

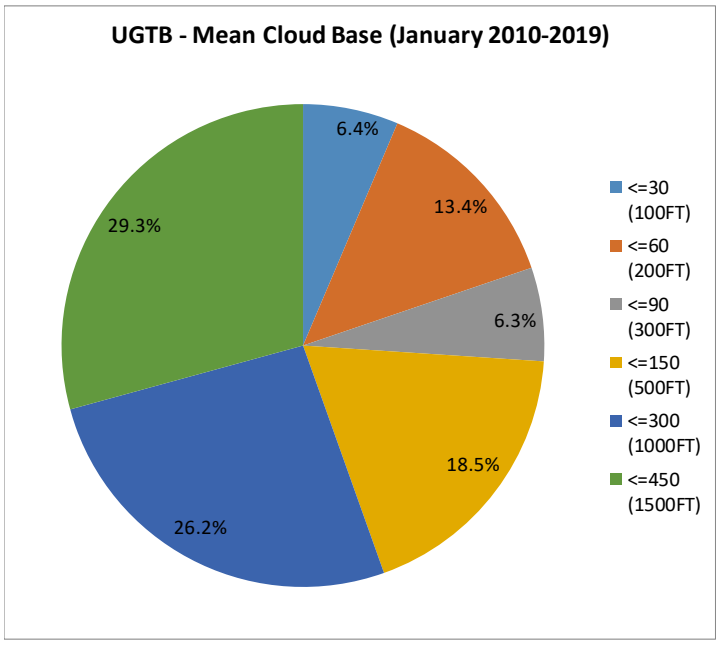
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | 1.27 | 2.53 | 3.16 | 6.33 | 12.03 | 16.77 |
| 0030 | 0.96 | 2.89 | 4.18 | 7.07 | 12.22 | 16.40 |
| 0100 | 0.96 | 3.54 | 4.50 | 9.32 | 13.83 | 19.29 |
| 0130 | 0.96 | 3.85 | 4.17 | 8.01 | 12.18 | 16.99 |
| 0200 | 1.93 | 4.82 | 5.47 | 9.32 | 13.50 | 17.36 |
| 0230 | 0.97 | 5.18 | 6.80 | 10.68 | 14.89 | 20.39 |
| 0300 | 1.29 | 5.48 | 6.13 | 9.03 | 12.26 | 18.71 |
| 0330 | 1.62 | 5.19 | 6.17 | 10.06 | 13.96 | 18.51 |
| 0400 | 2.59 | 5.18 | 5.83 | 7.44 | 11.00 | 17.48 |
| 0430 | 2.92 | 5.19 | 6.49 | 8.44 | 13.31 | 18.51 |
| 0500 | 3.22 | 4.82 | 6.11 | 9.00 | 13.18 | 19.29 |
| 0530 | 1.94 | 6.13 | 6.45 | 9.35 | 12.90 | 17.10 |
| 0600 | 1.94 | 5.18 | 6.47 | 9.71 | 12.62 | 16.50 |
| 0630 | 1.29 | 5.48 | 7.42 | 10.00 | 12.90 | 17.74 |
| 0700 | 0.65 | 6.15 | 7.44 | 10.68 | 14.24 | 20.39 |
| 0730 | 0.97 | 5.19 | 6.49 | 12.01 | 15.91 | 20.13 |
| 0800 | 0.32 | 3.88 | 5.83 | 8.74 | 14.24 | 17.48 |
| 0830 | - | 2.27 | 3.90 | 8.12 | 14.94 | 18.83 |
| 0900 | 0.65 | 1.94 | 2.91 | 7.44 | 12.62 | 16.18 |
| 0930 | - | 1.30 | 1.95 | 5.84 | 12.01 | 16.23 |
| 1000 | 0.32 | 1.30 | 2.60 | 6.82 | 11.04 | 15.26 |
| 1030 | 0.33 | 0.98 | 1.31 | 4.58 | 10.13 | 14.71 |
| 1100 | 0.32 | 0.64 | 0.96 | 2.57 | 9.32 | 12.86 |
| 1130 | 0.65 | 1.30 | 1.95 | 4.22 | 8.77 | 14.94 |
| 1200 | 0.32 | 0.32 | 0.96 | 3.22 | 7.40 | 11.25 |
| 1230 | 0.33 | 0.98 | 1.30 | 2.61 | 6.19 | 10.10 |
| 1300 | 0.32 | 1.30 | 2.92 | 4.22 | 7.14 | 12.34 |
| 1330 | - | 1.30 | 1.95 | 3.58 | 5.54 | 9.45 |
| 1400 | - | 0.96 | 1.61 | 4.50 | 7.07 | 10.93 |
| 1430 | 0.32 | 0.97 | 1.61 | 3.55 | 6.77 | 10.97 |
| 1500 | 0.32 | 0.65 | 1.62 | 3.56 | 6.80 | 9.71 |
| 1530 | 0.32 | 1.29 | 1.61 | 4.52 | 7.42 | 10.32 |
| 1600 | 0.65 | 1.29 | 2.26 | 3.55 | 6.13 | 8.71 |
| 1630 | 0.32 | 1.62 | 2.91 | 4.53 | 7.44 | 10.03 |
| 1700 | 0.97 | 1.94 | 2.58 | 4.52 | 7.74 | 11.29 |
| 1730 | 0.65 | 2.90 | 3.23 | 5.81 | 8.06 | 11.61 |
| 1800 | 0.97 | 1.94 | 2.27 | 4.85 | 8.09 | 11.97 |
| 1830 | 0.97 | 2.92 | 3.90 | 5.52 | 8.77 | 12.99 |
| 1900 | 0.65 | 1.94 | 2.91 | 5.18 | 8.74 | 11.33 |
| 1930 | 1.30 | 1.95 | 2.93 | 4.23 | 7.82 | 11.73 |
| 2000 | 0.97 | 2.60 | 3.25 | 4.55 | 7.79 | 10.71 |
| 2030 | 1.63 | 3.27 | 4.25 | 6.21 | 8.82 | 14.38 |
| 2100 | 0.96 | 3.53 | 5.13 | 6.09 | 8.65 | 14.10 |
| 2130 | 1.29 | 3.87 | 5.16 | 7.42 | 10.97 | 15.48 |
| 2200 | 1.63 | 3.91 | 5.21 | 8.47 | 12.05 | 16.29 |
| 2230 | 0.96 | 3.86 | 5.14 | 7.72 | 10.93 | 17.04 |
| 2300 | 0.65 | 2.59 | 3.24 | 6.80 | 11.97 | 15.86 |
| 2330 | 0.96 | 2.56 | 2.88 | 7.37 | 11.54 | 15.71 |
| Mean | 0.95 | 2.94 | 3.87 | 6.61 | 10.50 | 14.84 |




In January, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 29.3%
2. >500FT and <= 1000FT – 26.2%
3. >300FT and <= 500FT – 18.5%
4. >200FT and <= 300FT – 6.3%
5. >100FT and <= 200FT – 13.4%
6. <=100FT – 6.4%

In January, the mean percentage of cloud ceiling recorded above 1500 feet is 85.16% of the total amount of occurrences (See climatological table of January, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.95 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of January, Model C).

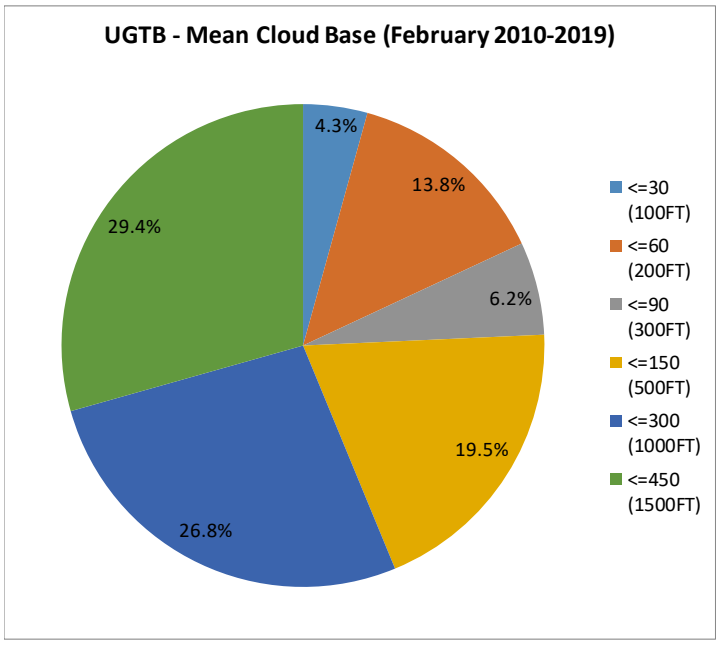
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | 0.36 | 3.94 | 5.73 | 9.68 | 15.77 | 22.94 |
| 0030 | 1.07 | 4.27 | 6.05 | 11.74 | 17.44 | 23.13 |
| 0100 | 1.06 | 4.23 | 5.63 | 11.27 | 15.49 | 22.18 |
| 0130 | 1.06 | 5.32 | 6.38 | 9.93 | 20.57 | 25.53 |
| 0200 | 0.71 | 5.65 | 7.07 | 11.66 | 20.49 | 25.44 |
| 0230 | 1.07 | 6.05 | 7.12 | 11.74 | 19.93 | 26.33 |
| 0300 | 0.71 | 5.30 | 7.07 | 12.37 | 18.73 | 23.67 |
| 0330 | 0.36 | 5.34 | 6.05 | 14.23 | 21.35 | 25.62 |
| 0400 | 1.08 | 5.76 | 7.55 | 13.31 | 21.58 | 25.18 |
| 0430 | 1.42 | 7.47 | 8.54 | 14.23 | 19.93 | 27.05 |
| 0500 | 0.72 | 6.14 | 8.66 | 16.97 | 21.66 | 27.08 |
| 0530 | 1.45 | 5.07 | 8.33 | 14.49 | 19.57 | 25.00 |
| 0600 | 0.72 | 4.33 | 6.86 | 11.55 | 19.13 | 27.44 |
| 0630 | 0.72 | 3.97 | 5.05 | 10.47 | 16.25 | 24.19 |
| 0700 | 0.72 | 3.99 | 5.07 | 9.78 | 16.67 | 22.46 |
| 0730 | 0.36 | 2.89 | 3.61 | 10.11 | 15.88 | 22.74 |
| 0800 | - | 2.50 | 3.21 | 6.07 | 13.93 | 21.79 |
| 0830 | 1.07 | 1.42 | 3.56 | 6.76 | 13.88 | 22.06 |
| 0900 | - | 1.07 | 1.07 | 4.29 | 12.14 | 20.71 |
| 0930 | - | 0.71 | 1.78 | 3.91 | 10.32 | 16.37 |
| 1000 | 0.36 | 0.71 | 1.79 | 5.00 | 9.29 | 16.43 |
| 1030 | - | 1.08 | 1.44 | 3.25 | 9.03 | 16.61 |
| 1100 | - | 0.71 | 2.14 | 3.57 | 8.21 | 13.21 |
| 1130 | - | 1.77 | 2.13 | 3.90 | 6.74 | 11.35 |
| 1200 | - | 0.71 | 1.77 | 4.26 | 9.57 | 14.18 |
| 1230 | 0.36 | 0.72 | 2.16 | 3.96 | 7.55 | 11.87 |
| 1300 | 0.35 | 1.77 | 2.48 | 3.55 | 8.16 | 12.41 |
| 1330 | - | 1.07 | 1.43 | 3.21 | 6.43 | 12.86 |
| 1400 | - | 0.71 | 2.50 | 3.93 | 8.21 | 13.57 |
| 1430 | - | 1.80 | 3.60 | 4.32 | 7.55 | 10.43 |
| 1500 | 0.36 | 1.81 | 2.17 | 3.61 | 6.14 | 8.66 |
| 1530 | - | 1.79 | 1.79 | 3.57 | 5.71 | 9.29 |
| 1600 | 0.72 | 1.81 | 2.17 | 5.05 | 7.94 | 10.83 |
| 1630 | 0.36 | 1.81 | 1.81 | 4.71 | 7.97 | 11.59 |
| 1700 | 1.08 | 1.80 | 2.52 | 5.76 | 9.35 | 12.59 |
| 1730 | 1.08 | 2.51 | 3.58 | 7.17 | 8.24 | 14.34 |
| 1800 | 2.15 | 3.58 | 4.30 | 7.89 | 9.68 | 16.13 |
| 1830 | 1.80 | 4.32 | 5.04 | 7.55 | 11.51 | 17.27 |
| 1900 | 1.44 | 3.24 | 4.32 | 7.55 | 11.15 | 16.19 |
| 1930 | 1.81 | 3.99 | 5.07 | 7.61 | 11.59 | 16.67 |
| 2000 | 1.44 | 5.04 | 5.76 | 9.35 | 12.95 | 17.63 |
| 2030 | 1.08 | 3.96 | 5.04 | 9.35 | 12.95 | 17.27 |
| 2100 | 2.19 | 5.11 | 5.84 | 10.22 | 13.14 | 18.61 |
| 2130 | 1.45 | 4.35 | 5.80 | 8.33 | 11.59 | 15.58 |
| 2200 | 1.43 | 6.45 | 7.53 | 10.75 | 15.05 | 20.07 |
| 2230 | 1.47 | 4.41 | 6.25 | 11.40 | 16.18 | 22.06 |
| 2300 | 1.47 | 5.51 | 7.35 | 9.93 | 16.18 | 21.32 |
| 2330 | 1.50 | 3.75 | 5.24 | 8.61 | 13.48 | 19.48 |
| Mean | 0.80 | 3.37 | 4.53 | 8.17 | 13.17 | 18.65 |




In February, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 29.4%
2. >500FT and <= 1000FT – 26.8%
3. >300FT and <= 500FT – 19.5%
4. >200FT and <= 300FT – 6.2%
5. >100FT and <= 200FT – 13.8%
6. <=100FT – 4.3%

In February, the mean percentage of cloud ceiling recorded above 1500 feet is 81.35% of the total amount of occurrences (See climatological table of February, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.80 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of February, Model C).

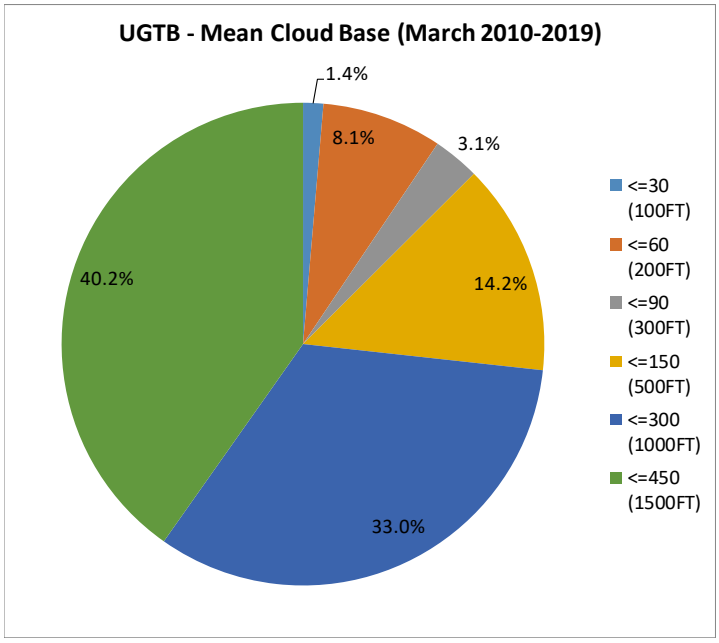
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | 0.32 | 0.97 | 0.97 | 2.59 | 5.50 | 10.36 |
| 0030 | - | 0.97 | 1.29 | 2.27 | 5.18 | 8.41 |
| 0100 | - | 0.97 | 0.97 | 2.26 | 5.16 | 9.35 |
| 0130 | 0.33 | 0.98 | 1.30 | 2.61 | 4.89 | 10.42 |
| 0200 | 0.32 | 1.61 | 1.61 | 3.23 | 6.13 | 10.65 |
| 0230 | 0.32 | 1.61 | 1.94 | 2.90 | 6.77 | 11.94 |
| 0300 | 0.32 | 2.27 | 2.91 | 5.18 | 8.41 | 12.94 |
| 0330 | - | 2.58 | 2.58 | 4.84 | 9.03 | 15.16 |
| 0400 | 0.64 | 2.25 | 2.57 | 5.47 | 11.25 | 16.08 |
| 0430 | 0.98 | 3.61 | 4.26 | 6.56 | 9.84 | 14.43 |
| 0500 | 0.64 | 3.54 | 3.86 | 5.47 | 9.97 | 16.08 |
| 0530 | 0.33 | 3.92 | 3.92 | 4.58 | 12.09 | 16.67 |
| 0600 | 0.32 | 2.60 | 3.57 | 6.49 | 11.04 | 16.23 |
| 0630 | 0.33 | 2.93 | 3.26 | 7.17 | 11.40 | 15.31 |
| 0700 | - | 0.97 | 1.61 | 4.84 | 10.65 | 14.19 |
| 0730 | 0.33 | 0.66 | 0.98 | 3.61 | 7.87 | 12.13 |
| 0800 | 0.33 | 0.33 | 0.98 | 1.96 | 3.92 | 7.19 |
| 0830 | - | 0.65 | 0.65 | 3.25 | 8.44 | 12.34 |
| 0900 | - | - | 0.32 | 1.93 | 5.14 | 8.36 |
| 0930 | - | - | 0.65 | 2.27 | 3.90 | 7.47 |
| 1000 | - | - | 0.32 | 1.62 | 3.57 | 6.17 |
| 1030 | - | 0.33 | 0.33 | 1.31 | 3.59 | 5.23 |
| 1100 | - | 0.33 | 0.66 | 1.65 | 3.30 | 5.61 |
| 1130 | - | 0.32 | 0.32 | 0.97 | 2.27 | 4.85 |
| 1200 | - | - | 0.32 | 0.97 | 1.94 | 5.16 |
| 1230 | - | - | 0.32 | 0.97 | 2.59 | 5.18 |
| 1300 | - | 0.33 | 0.33 | 0.65 | 1.30 | 3.58 |
| 1330 | - | - | 0.32 | 0.65 | 1.62 | 4.22 |
| 1400 | - | - | 0.33 | 0.66 | 2.62 | 4.26 |
| 1430 | - | - | - | 0.33 | 2.30 | 4.59 |
| 1500 | - | - | - | - | 1.30 | 3.58 |
| 1530 | - | - | - | - | 2.27 | 3.56 |
| 1600 | - | - | - | - | 2.58 | 4.52 |
| 1630 | - | 0.32 | 0.65 | 0.97 | 2.59 | 5.50 |
| 1700 | - | - | 0.33 | 0.98 | 2.62 | 4.26 |
| 1730 | - | - | 0.32 | 0.97 | 2.59 | 4.85 |
| 1800 | - | - | 0.32 | 0.65 | 1.95 | 5.19 |
| 1830 | - | 0.65 | 0.65 | 0.97 | 4.22 | 5.84 |
| 1900 | - | 0.65 | 0.65 | 0.98 | 3.26 | 6.19 |
| 1930 | - | - | - | 0.65 | 2.94 | 5.56 |
| 2000 | - | 0.32 | 0.32 | 1.30 | 3.90 | 6.17 |
| 2030 | - | - | 0.33 | 0.33 | 3.27 | 6.86 |
| 2100 | - | - | - | 0.65 | 3.26 | 8.79 |
| 2130 | - | - | 0.32 | 2.27 | 4.21 | 7.44 |
| 2200 | - | 0.64 | 1.29 | 1.93 | 5.79 | 8.68 |
| 2230 | - | 0.32 | 0.96 | 2.25 | 4.82 | 8.36 |
| 2300 | - | 0.33 | 0.99 | 1.64 | 4.61 | 7.57 |
| 2330 | - | 0.33 | 0.33 | 2.94 | 5.23 | 9.15 |
| Mean | 0.11 | 0.80 | 1.06 | 2.26 | 5.06 | 8.47 |




In March, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 40.2%
2. >500FT and <= 1000FT – 33.0%
3. >300FT and <= 500FT – 14.2%
4. >200FT and <= 300FT – 3.1%
5. >100FT and <= 200FT – 8.1%
6. <=100FT – 1.4%

In March, the mean percentage of cloud ceiling recorded above 1500 feet is 91.53% of the total amount of occurrences (See climatological table of March, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.11 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of March, Model C).

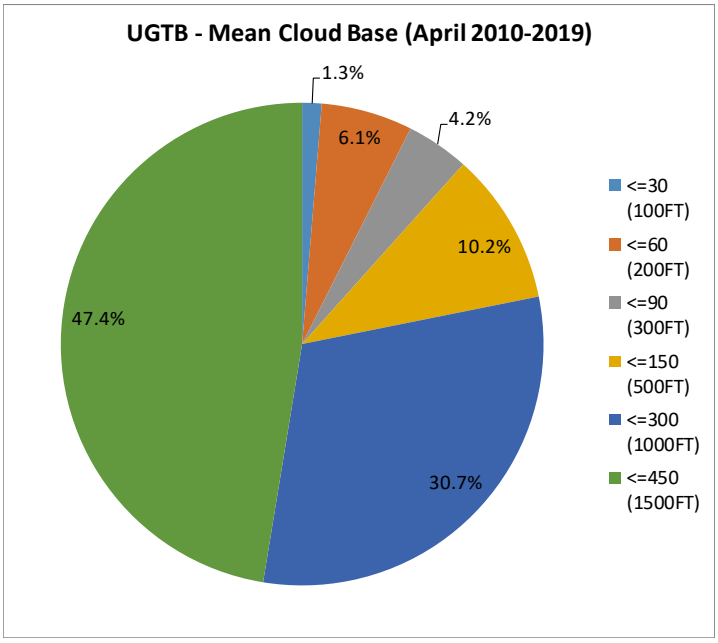
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | 0.67 | 0.67 | 1.34 | 2.35 | 6.04 |
| 0030 | - | 0.33 | 0.33 | 1.00 | 2.00 | 6.67 |
| 0100 | - | 0.34 | 0.67 | 1.34 | 2.68 | 7.05 |
| 0130 | - | 0.34 | 1.34 | 1.68 | 3.36 | 6.04 |
| 0200 | - | 0.66 | 0.99 | 1.65 | 5.28 | 7.92 |
| 0230 | 0.34 | 0.67 | 1.01 | 2.01 | 5.37 | 9.06 |
| 0300 | 0.33 | 0.67 | 1.34 | 1.67 | 5.02 | 8.70 |
| 0330 | 0.34 | 1.36 | 1.36 | 2.37 | 5.42 | 8.47 |
| 0400 | - | 0.67 | 1.68 | 2.35 | 4.70 | 8.05 |
| 0430 | - | 0.67 | 1.33 | 1.33 | 4.67 | 10.00 |
| 0500 | - | 0.99 | 1.99 | 2.32 | 5.63 | 10.93 |
| 0530 | - | 1.01 | 1.34 | 2.68 | 6.38 | 10.40 |
| 0600 | - | 1.01 | 1.34 | 3.02 | 6.38 | 10.07 |
| 0630 | - | 0.68 | 0.68 | 3.38 | 6.76 | 10.14 |
| 0700 | - | - | 0.33 | 1.00 | 3.34 | 8.03 |
| 0730 | - | - | - | 1.02 | 3.05 | 5.76 |
| 0800 | 0.34 | 0.34 | 1.01 | 1.69 | 5.74 | 8.11 |
| 0830 | 0.33 | 0.33 | 0.67 | 1.34 | 4.01 | 7.02 |
| 0900 | - | 0.33 | 0.67 | 1.00 | 3.67 | 7.00 |
| 0930 | - | - | 0.34 | 0.67 | 1.68 | 4.38 |
| 1000 | - | - | - | 2.01 | 3.69 | 5.37 |
| 1030 | - | - | 0.67 | 1.68 | 2.35 | 4.36 |
| 1100 | - | - | - | 0.67 | 1.00 | 2.33 |
| 1130 | - | 0.33 | 0.33 | 0.66 | 1.99 | 3.64 |
| 1200 | - | - | - | 0.34 | 1.68 | 2.36 |
| 1230 | - | - | - | - | 1.01 | 3.02 |
| 1300 | - | - | - | 0.33 | 1.00 | 2.67 |
| 1330 | - | - | 0.34 | 0.34 | 1.01 | 2.70 |
| 1400 | - | - | - | 0.33 | 2.00 | 3.00 |
| 1430 | - | 0.33 | 0.33 | 0.33 | 1.33 | 2.67 |
| 1500 | - | 0.33 | 0.33 | 0.66 | 1.97 | 3.29 |
| 1530 | - | 0.34 | 0.67 | 0.67 | 1.34 | 1.68 |
| 1600 | 0.33 | 0.66 | 1.00 | 1.33 | 1.66 | 3.32 |
| 1630 | 0.33 | 0.33 | 0.33 | 0.66 | 1.66 | 3.32 |
| 1700 | - | 0.33 | 0.33 | 0.33 | 1.33 | 2.99 |
| 1730 | - | 0.33 | 0.67 | 1.33 | 1.67 | 3.33 |
| 1800 | 0.33 | 0.33 | 0.33 | 1.32 | 1.99 | 3.64 |
| 1830 | 0.33 | 0.33 | 0.66 | 1.33 | 2.66 | 3.99 |
| 1900 | 0.33 | 0.33 | 0.66 | 0.99 | 2.30 | 3.62 |
| 1930 | - | 0.33 | 0.33 | 0.66 | 1.65 | 4.29 |
| 2000 | - | 0.33 | 0.67 | 1.00 | 2.33 | 4.67 |
| 2030 | - | - | - | 0.33 | 1.67 | 3.67 |
| 2100 | - | 0.99 | 0.99 | 0.99 | 1.97 | 4.93 |
| 2130 | - | 0.66 | 0.66 | 0.99 | 1.99 | 4.97 |
| 2200 | - | 0.66 | 0.66 | 1.00 | 2.66 | 5.65 |
| 2230 | - | 0.67 | 0.67 | 1.33 | 1.33 | 5.00 |
| 2300 | - | 0.67 | 0.67 | 0.67 | 1.33 | 3.67 |
| 2330 | - | - | - | - | 1.67 | 4.00 |
| Mean | 0.07 | 0.40 | 0.63 | 1.19 | 2.87 | 5.46 |




In April, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 47.4%
2. >500FT and <= 1000FT – 30.7%
3. >300FT and <= 500FT – 10.2%
4. >200FT and <= 300FT – 4.2%
5. >100FT and <= 200FT – 6.1%
6. <=100FT – 1.3%

In April, the mean percentage of cloud ceiling recorded above 1500 feet is 94.54% of the total amount of occurrences (See climatological table of April, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.07 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of April, Model C).

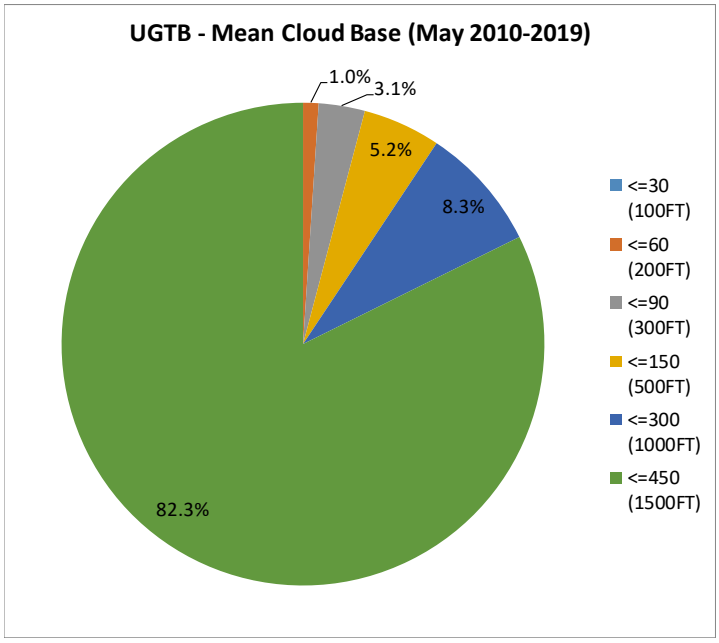
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | - | 0.66 |
| 0030 | - | - | - | - | - | 0.64 |
| 0100 | - | - | 0.32 | 0.32 | 0.65 | 1.94 |
| 0130 | - | - | 0.32 | 0.32 | 0.97 | 2.27 |
| 0200 | - | - | - | 0.32 | 0.32 | 1.29 |
| 0230 | - | - | - | - | - | 1.27 |
| 0300 | - | - | - | - | - | 0.33 |
| 0330 | - | - | - | - | - | 0.65 |
| 0400 | - | - | - | - | - | 0.97 |
| 0430 | - | - | - | - | - | 0.65 |
| 0500 | - | - | - | - | - | 0.97 |
| 0530 | - | - | - | 0.65 | 0.97 | 2.27 |
| 0600 | - | - | - | - | 0.32 | 1.62 |
| 0630 | - | - | - | - | - | 0.64 |
| 0700 | - | - | - | - | - | - |
| 0730 | - | - | - | - | 0.33 | 0.98 |
| 0800 | - | - | - | - | - | 0.33 |
| 0830 | - | - | - | - | - | 0.97 |
| 0900 | - | - | - | - | - | 1.31 |
| 0930 | - | - | - | - | - | 1.32 |
| 1000 | - | - | - | - | - | 1.00 |
| 1030 | - | - | - | - | - | 1.32 |
| 1100 | - | - | - | - | 0.33 | 0.67 |
| 1130 | - | - | - | - | 0.33 | 0.65 |
| 1200 | - | - | - | - | - | 0.66 |
| 1230 | - | - | - | - | - | 0.33 |
| 1300 | - | - | - | - | - | 0.33 |
| 1330 | - | - | - | - | - | 0.66 |
| 1400 | - | - | - | - | - | 0.66 |
| 1430 | - | - | - | - | - | 0.33 |
| 1500 | - | - | - | - | - | 0.33 |
| 1530 | - | - | - | - | - | - |
| 1600 | - | - | - | - | - | 0.33 |
| 1630 | - | - | - | 0.32 | 0.32 | 0.65 |
| 1700 | - | - | - | 0.33 | 0.33 | 0.33 |
| 1730 | - | - | - | - | - | - |
| 1800 | - | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 |
| 1830 | - | - | - | - | - | - |
| 1900 | - | - | - | - | - | - |
| 1930 | - | - | - | - | - | 0.32 |
| 2000 | - | - | - | - | - | - |
| 2030 | - | - | - | - | - | - |
| 2100 | - | - | 0.32 | 0.32 | 0.32 | 0.32 |
| 2130 | - | - | - | - | - | 0.32 |
| 2200 | - | - | - | - | - | 0.31 |
| 2230 | - | - | - | - | - | - |
| 2300 | - | - | - | - | - | - |
| 2330 | - | - | - | - | - | 0.33 |
| Mean | - | 0.01 | 0.03 | 0.06 | 0.12 | 0.65 |




In May, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 82.3%
2. >500FT and <= 1000FT – 8.3%
3. >300FT and <= 500FT – 5.2%
4. >200FT and <= 300FT – 3.1%
5. >100FT and <= 200FT – 1.0%
6. <=100FT – not observed

In May, the mean percentage of cloud ceiling recorded above 1500 feet is 99.35% of the total amount of occurrences (See climatological table of May, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 200 feet and below (cloud amount BKN and OVC) (see climatological table of May, Model C).

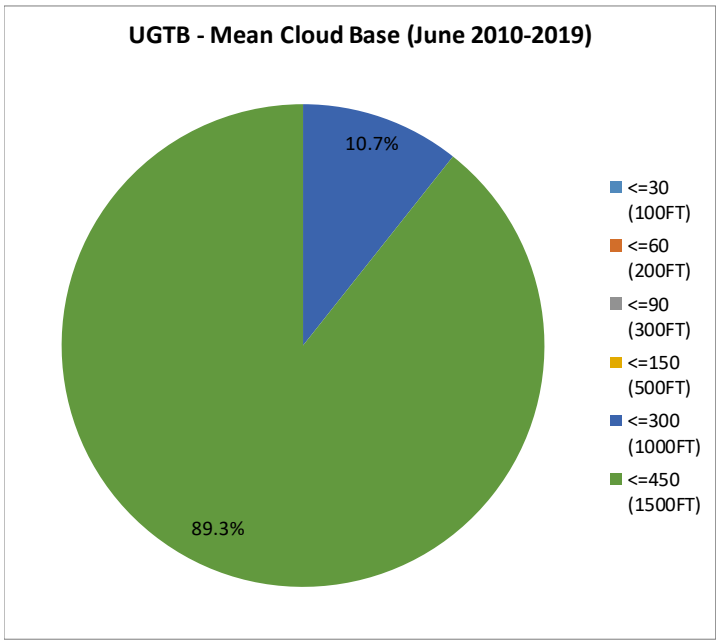
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | - | - |
| 0030 | - | - | - | - | - | - |
| 0100 | - | - | - | - | - | - |
| 0130 | - | - | - | - | - | - |
| 0200 | - | - | - | - | - | - |
| 0230 | - | - | - | - | - | 0.66 |
| 0300 | - | - | - | - | - | - |
| 0330 | - | - | - | - | - | - |
| 0400 | - | - | - | - | - | 0.33 |
| 0430 | - | - | - | - | 0.66 | 1.64 |
| 0500 | - | - | - | - | - | 0.99 |
| 0530 | - | - | - | - | - | 0.66 |
| 0600 | - | - | - | - | - | - |
| 0630 | - | - | - | - | - | - |
| 0700 | - | - | - | - | - | - |
| 0730 | - | - | - | - | - | - |
| 0800 | - | - | - | - | - | - |
| 0830 | - | - | - | - | - | - |
| 0900 | - | - | - | - | - | - |
| 0930 | - | - | - | - | - | - |
| 1000 | - | - | - | - | - | - |
| 1030 | - | - | - | - | - | - |
| 1100 | - | - | - | - | - | 0.33 |
| 1130 | - | - | - | - | 0.33 | 0.33 |
| 1200 | - | - | - | - | - | - |
| 1230 | - | - | - | - | - | 0.33 |
| 1300 | - | - | - | - | - | 0.33 |
| 1330 | - | - | - | - | - | 0.33 |
| 1400 | - | - | - | - | - | 0.33 |
| 1430 | - | - | - | - | - | 0.33 |
| 1500 | - | - | - | - | - | 0.33 |
| 1530 | - | - | - | - | - | 0.33 |
| 1600 | - | - | - | - | - | - |
| 1630 | - | - | - | - | - | - |
| 1700 | - | - | - | - | - | - |
| 1730 | - | - | - | - | - | - |
| 1800 | - | - | - | - | - | - |
| 1830 | - | - | - | - | - | - |
| 1900 | - | - | - | - | - | - |
| 1930 | - | - | - | - | - | - |
| 2000 | - | - | - | - | - | 0.33 |
| 2030 | - | - | - | - | - | 0.33 |
| 2100 | - | - | - | - | - | - |
| 2130 | - | - | - | - | - | 0.33 |
| 2200 | - | - | - | - | - | 0.33 |
| 2230 | - | - | - | - | - | 0.33 |
| 2300 | - | - | - | - | - | 0.33 |
| 2330 | - | - | - | - | - | - |
| Mean | - | - | - | - | 0.02 | 0.19 |




In June, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 89.3%
2. >500FT and <= 1000FT – 10.7%
3. >300FT and <= 500FT – not observed
4. >200FT and <= 300FT – not observed
5. >100FT and <= 200FT – not observed
6. <=100FT – not observed

In June, the mean percentage of cloud ceiling recorded above 1500 feet is 99.81% of the total amount of occurrences (See climatological table of June, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.02 percent of minimum cloud height of 1000 feet and below (cloud amount BKN and OVC) (see climatological table of June, Model C).

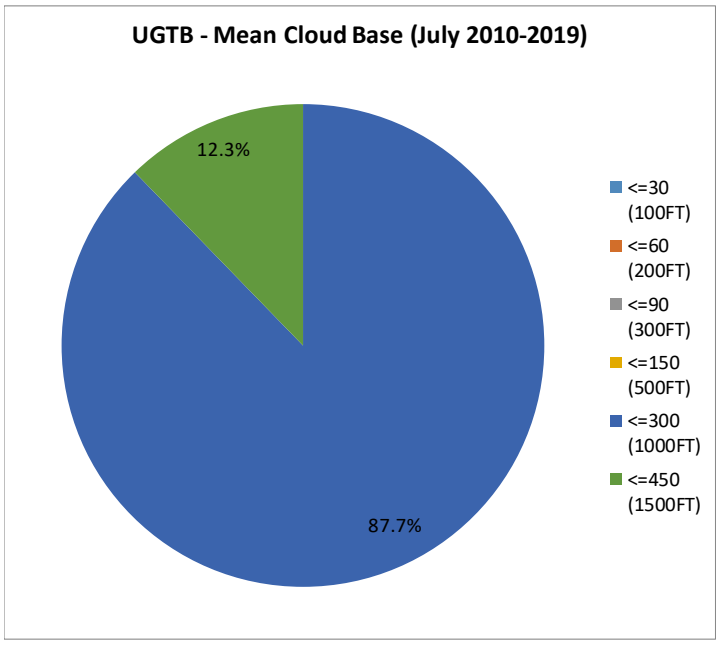
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | - | - |
| 0030 | - | - | - | - | - | - |
| 0100 | - | - | - | - | - | - |
| 0130 | - | - | - | - | - | - |
| 0200 | - | - | - | - | - | - |
| 0230 | - | - | - | - | - | - |
| 0300 | - | - | - | - | - | - |
| 0330 | - | - | - | - | - | - |
| 0400 | - | - | - | - | - | 0.32 |
| 0430 | - | - | - | - | - | - |
| 0500 | - | - | - | - | - | - |
| 0530 | - | - | - | - | - | - |
| 0600 | - | - | - | - | - | - |
| 0630 | - | - | - | - | - | - |
| 0700 | - | - | - | - | - | - |
| 0730 | - | - | - | - | - | - |
| 0800 | - | - | - | - | - | - |
| 0830 | - | - | - | - | 0.33 | 0.33 |
| 0900 | - | - | - | - | 0.33 | 0.33 |
| 0930 | - | - | - | - | - | - |
| 1000 | - | - | - | - | 0.33 | 0.33 |
| 1030 | - | - | - | - | 0.33 | 0.33 |
| 1100 | - | - | - | - | 0.33 | 0.33 |
| 1130 | - | - | - | - | 0.33 | 0.33 |
| 1200 | - | - | - | - | 0.33 | 0.33 |
| 1230 | - | - | - | - | - | - |
| 1300 | - | - | - | - | - | - |
| 1330 | - | - | - | - | - | - |
| 1400 | - | - | - | - | - | - |
| 1430 | - | - | - | - | - | - |
| 1500 | - | - | - | - | - | - |
| 1530 | - | - | - | - | - | - |
| 1600 | - | - | - | - | - | - |
| 1630 | - | - | - | - | - | - |
| 1700 | - | - | - | - | - | - |
| 1730 | - | - | - | - | - | - |
| 1800 | - | - | - | - | - | - |
| 1830 | - | - | - | - | - | - |
| 1900 | - | - | - | - | - | - |
| 1930 | - | - | - | - | - | - |
| 2000 | - | - | - | - | - | - |
| 2030 | - | - | - | - | - | - |
| 2100 | - | - | - | - | - | - |
| 2130 | - | - | - | - | - | - |
| 2200 | - | - | - | - | - | - |
| 2230 | - | - | - | - | - | - |
| 2300 | - | - | - | - | - | - |
| 2330 | - | - | - | - | - | - |
| Mean | - | - | - | - | 0.05 | 0.05 |




In July, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 12.3%
2. >500FT and <= 1000FT – 87.7%
3. >300FT and <= 500FT – not observed
4. >200FT and <= 300FT – not observed
5. >100FT and <= 200FT – not observed
6. <=100FT – not observed

In July, the mean percentage of cloud ceiling recorded above 1500 feet is 99.95% of the total amount of occurrences (See climatological table of July, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.05 percent of minimum cloud height of 1000 feet and below (cloud amount BKN and OVC) (see climatological table of July, Model C).

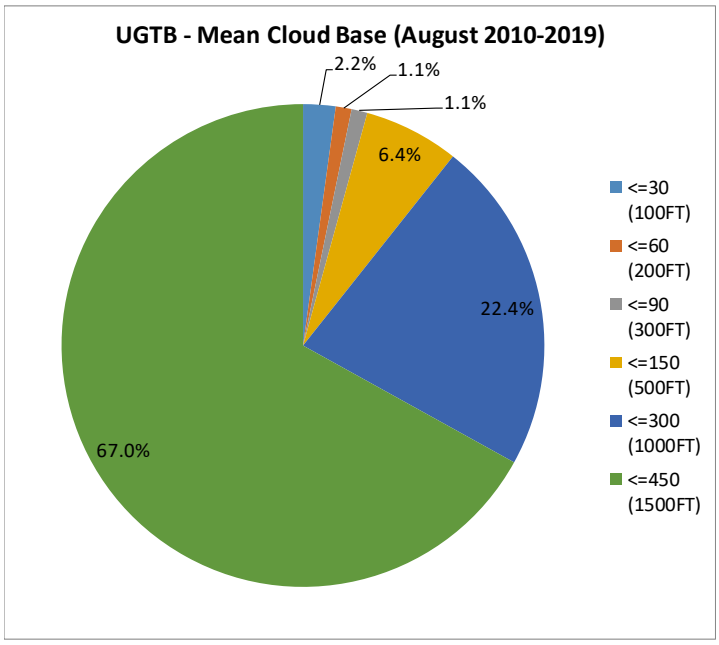
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | 0.34 | 0.34 |
| 0030 | - | - | - | - | - | - |
| 0100 | - | - | - | - | - | 0.33 |
| 0130 | - | - | - | - | - | 0.33 |
| 0200 | - | - | - | 0.33 | 0.67 | 1.34 |
| 0230 | - | - | - | 0.33 | 0.66 | 1.32 |
| 0300 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.66 |
| 0330 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.66 |
| 0400 | - | - | - | - | 0.33 | 0.99 |
| 0430 | - | - | - | - | 0.33 | 0.67 |
| 0500 | - | - | - | - | - | - |
| 0530 | - | 0.33 | 0.66 | 0.66 | 0.66 | 0.99 |
| 0600 | - | - | - | 0.66 | 0.66 | 0.66 |
| 0630 | - | - | - | 0.33 | 0.66 | 1.32 |
| 0700 | - | - | - | - | - | 0.33 |
| 0730 | - | - | - | 0.33 | 0.66 | 0.99 |
| 0800 | - | - | - | - | 0.33 | 0.66 |
| 0830 | - | - | - | - | - | - |
| 0900 | - | - | - | - | - | - |
| 0930 | - | - | - | - | - | 0.67 |
| 1000 | - | - | - | - | 0.33 | 0.66 |
| 1030 | - | - | - | - | - | 0.99 |
| 1100 | - | - | - | - | 0.33 | 1.31 |
| 1130 | - | - | - | - | 0.33 | 1.63 |
| 1200 | - | - | - | - | 0.33 | 0.98 |
| 1230 | - | - | - | - | 0.33 | 0.98 |
| 1300 | - | - | - | - | 0.65 | 0.98 |
| 1330 | - | - | - | - | 0.33 | 0.98 |
| 1400 | - | - | - | - | - | 0.98 |
| 1430 | - | - | - | - | - | 0.33 |
| 1500 | - | - | - | - | - | 0.33 |
| 1530 | - | - | - | - | - | 0.66 |
| 1600 | - | - | - | - | - | 0.33 |
| 1630 | - | - | - | - | - | 0.33 |
| 1700 | - | - | - | - | - | 0.33 |
| 1730 | - | - | - | - | - | 0.34 |
| 1800 | - | - | - | - | - | 0.66 |
| 1830 | - | - | - | - | - | 0.67 |
| 1900 | - | - | - | - | - | 0.67 |
| 1930 | - | - | - | - | 0.68 | 0.68 |
| 2000 | - | - | - | - | 0.33 | 0.66 |
| 2030 | - | - | - | - | - | 0.33 |
| 2100 | - | - | - | - | - | 0.33 |
| 2130 | - | - | - | - | - | 0.66 |
| 2200 | - | - | - | - | 0.33 | 0.33 |
| 2230 | - | - | - | - | - | 0.66 |
| 2300 | - | - | - | - | 0.33 | 1.00 |
| 2330 | - | - | - | - | - | - |
| Mean | 0.01 | 0.02 | 0.03 | 0.07 | 0.21 | 0.65 |




In August, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 67.0%
2. >500FT and <= 1000FT – 22.0%
3. >300FT and <= 500FT – 6.4%
4. >200FT and <= 300FT – 1.1%
5. >100FT and <= 200FT – 1.1%
6. <=100FT – 2.2%

In August, the mean percentage of cloud ceiling recorded above 1500 feet is 99.35% of the total amount of occurrences (See climatological table of August, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of August, Model C).

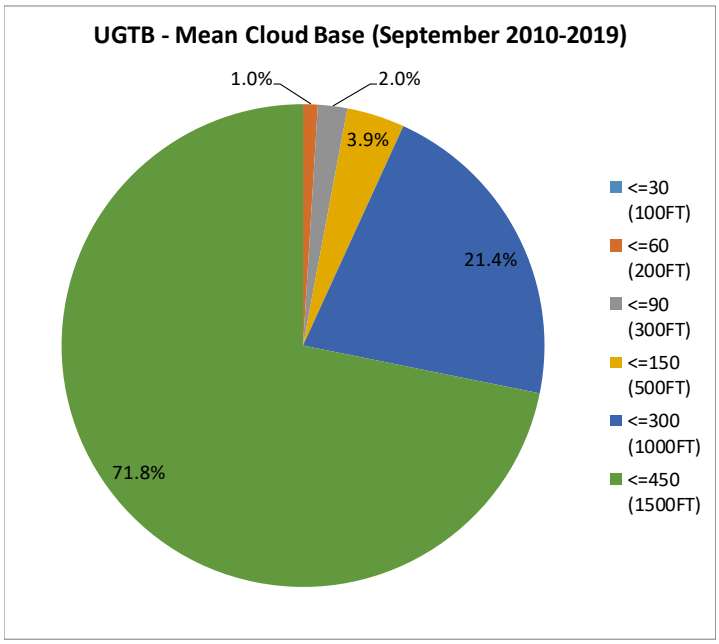
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | - | 0.34 |
| 0030 | - | - | - | - | - | 0.33 |
| 0100 | - | - | - | - | 0.33 | 1.31 |
| 0130 | - | - | - | - | 0.66 | 2.33 |
| 0200 | - | - | - | - | 0.66 | 1.99 |
| 0230 | - | - | - | - | 0.33 | 1.99 |
| 0300 | - | - | - | - | - | 1.01 |
| 0330 | - | - | - | - | - | 1.01 |
| 0400 | - | - | - | - | - | 1.33 |
| 0430 | - | - | - | - | - | 0.68 |
| 0500 | - | - | - | - | - | 0.66 |
| 0530 | - | 0.34 | 0.68 | 0.68 | 1.02 | 1.70 |
| 0600 | - | - | - | 0.33 | 1.00 | 1.33 |
| 0630 | - | - | - | 0.33 | 0.66 | 0.66 |
| 0700 | - | - | - | - | 0.33 | 0.33 |
| 0730 | - | - | - | 0.34 | 0.68 | 1.01 |
| 0800 | - | - | - | - | 0.67 | 0.67 |
| 0830 | - | - | - | - | - | - |
| 0900 | - | - | - | - | - | - |
| 0930 | - | - | - | - | - | 0.34 |
| 1000 | - | - | - | - | - | 0.34 |
| 1030 | - | - | - | - | - | 0.33 |
| 1100 | - | - | - | - | - | 0.34 |
| 1130 | - | - | - | - | - | 0.34 |
| 1200 | - | - | - | - | - | 0.34 |
| 1230 | - | - | - | - | - | 0.33 |
| 1300 | - | - | - | - | - | 0.68 |
| 1330 | - | - | - | - | 0.34 | 1.01 |
| 1400 | - | - | - | - | - | 0.34 |
| 1430 | - | - | - | - | 0.33 | 1.00 |
| 1500 | - | - | - | - | - | 0.67 |
| 1530 | - | - | - | - | - | 0.34 |
| 1600 | - | - | - | - | 0.33 | 0.33 |
| 1630 | - | - | - | - | - | 0.34 |
| 1700 | - | - | - | - | - | 0.34 |
| 1730 | - | - | - | - | 0.34 | 0.34 |
| 1800 | - | - | - | 0.33 | 0.33 | 0.67 |
| 1830 | - | - | 0.33 | 0.33 | 0.33 | 1.34 |
| 1900 | - | - | - | - | - | 1.00 |
| 1930 | - | - | - | - | 1.01 | 1.35 |
| 2000 | - | - | - | - | - | 0.33 |
| 2030 | - | - | - | - | - | 0.33 |
| 2100 | - | - | - | - | - | 0.33 |
| 2130 | - | - | - | - | - | 0.33 |
| 2200 | - | - | - | - | 0.33 | 0.33 |
| 2230 | - | - | - | - | - | 0.68 |
| 2300 | - | - | - | - | - | 0.66 |
| 2330 | - | - | - | - | - | 0.67 |
| Mean | - | 0.01 | 0.02 | 0.05 | 0.20 | 0.72 |




In September, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 71.8%
2. >500FT and <= 1000FT – 21.4%
3. >300FT and <= 500FT – 3.9%
4. >200FT and <= 300FT – 2.0%
5. >100FT and <= 200FT – 1.0%
6. <=100FT – not observed

In September, the mean percentage of cloud ceiling recorded above 1500 feet is 99.28% of the total amount of occurrences (See climatological table of September, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 200 feet and below (cloud amount BKN and OVC) (see climatological table of September, Model C).

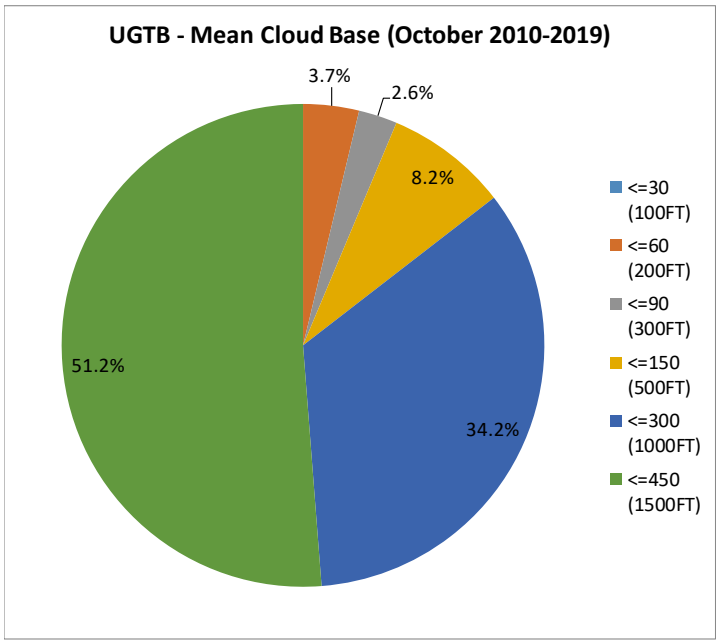
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | 0.33 | 0.66 | 1.64 | 5.26 | 6.58 |
| 0030 | - | - | 0.33 | 1.30 | 4.23 | 10.10 |
| 0100 | - | 0.64 | 0.96 | 0.96 | 5.75 | 10.22 |
| 0130 | - | 0.33 | 0.98 | 1.63 | 5.21 | 9.77 |
| 0200 | - | 0.96 | 0.96 | 2.24 | 5.11 | 8.31 |
| 0230 | - | 0.65 | 1.30 | 1.95 | 4.55 | 10.06 |
| 0300 | - | 0.97 | 1.94 | 2.58 | 5.48 | 10.97 |
| 0330 | - | 0.66 | 0.99 | 3.30 | 6.93 | 12.21 |
| 0400 | - | 0.99 | 1.64 | 3.95 | 6.91 | 11.51 |
| 0430 | - | 0.98 | 1.63 | 2.61 | 6.54 | 11.76 |
| 0500 | - | 1.30 | 1.63 | 2.61 | 6.51 | 13.03 |
| 0530 | - | 0.99 | 0.99 | 3.95 | 7.57 | 13.49 |
| 0600 | - | 0.33 | 0.33 | 1.96 | 5.88 | 11.76 |
| 0630 | - | 0.66 | 0.99 | 2.31 | 5.94 | 11.22 |
| 0700 | - | - | 0.66 | 2.30 | 6.91 | 9.87 |
| 0730 | - | 0.33 | 0.33 | 1.32 | 6.58 | 9.54 |
| 0800 | - | - | - | 0.66 | 4.93 | 8.22 |
| 0830 | - | 0.33 | 0.33 | 0.67 | 3.33 | 8.67 |
| 0900 | - | - | 0.33 | 0.65 | 2.29 | 5.88 |
| 0930 | - | - | - | 0.33 | 2.31 | 6.27 |
| 1000 | - | - | - | 0.33 | 2.97 | 5.94 |
| 1030 | - | - | 0.33 | 0.99 | 2.31 | 5.94 |
| 1100 | - | - | 0.33 | 0.98 | 3.28 | 6.56 |
| 1130 | - | - | - | - | 1.98 | 3.63 |
| 1200 | - | - | - | 0.66 | 2.30 | 4.61 |
| 1230 | - | 0.33 | 0.33 | 0.65 | 2.29 | 3.27 |
| 1300 | - | 0.32 | 0.65 | 0.97 | 2.60 | 4.22 |
| 1330 | - | - | 0.66 | 0.66 | 1.64 | 4.28 |
| 1400 | - | - | - | - | 1.30 | 4.22 |
| 1430 | - | - | - | - | 1.31 | 4.25 |
| 1500 | - | - | - | 0.33 | 0.65 | 2.61 |
| 1530 | - | - | - | - | 0.32 | 2.27 |
| 1600 | - | - | - | - | 0.64 | 3.22 |
| 1630 | - | - | - | - | 0.98 | 2.93 |
| 1700 | - | 0.33 | 0.33 | 0.33 | 1.30 | 4.23 |
| 1730 | - | - | - | - | 0.97 | 3.57 |
| 1800 | - | - | 0.32 | 0.32 | 1.30 | 3.57 |
| 1830 | - | - | - | - | 1.32 | 3.95 |
| 1900 | - | - | - | 0.33 | 1.95 | 6.19 |
| 1930 | - | - | 0.32 | 0.32 | 2.60 | 6.49 |
| 2000 | - | - | - | - | 2.29 | 6.54 |
| 2030 | - | - | - | - | 1.63 | 5.86 |
| 2100 | - | - | - | 0.33 | 2.62 | 7.21 |
| 2130 | - | 0.33 | 0.33 | 0.33 | 4.30 | 8.28 |
| 2200 | - | 0.33 | 0.33 | 0.99 | 3.95 | 7.57 |
| 2230 | - | - | - | 0.98 | 2.94 | 6.54 |
| 2300 | - | 0.32 | 0.32 | 0.65 | 2.59 | 6.15 |
| 2330 | - | 0.33 | 0.33 | 0.33 | 3.30 | 6.60 |
| Mean | - | 0.27 | 0.45 | 1.03 | 3.46 | 7.09 |




In October, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 51.2%
2. >500FT and <= 1000FT – 34.2%
3. >300FT and <= 500FT – 8.2%
4. >200FT and <= 300FT – 2.6%
5. >100FT and <= 200FT – 3.7%
6. <=100FT – not observed

In October, the mean percentage of cloud ceiling recorded above 1500 feet is 92.91% of the total amount of occurrences (See climatological table of October, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.27 percent of minimum cloud height of 200 feet and below (cloud amount BKN and OVC) (see climatological table of October, Model C).

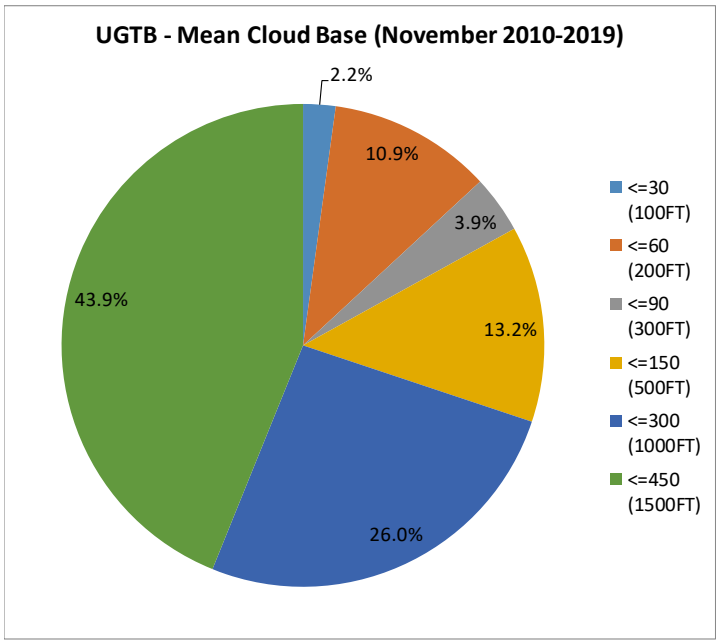
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | 0.67 | 2.67 | 3.33 | 4.33 | 8.33 | 14.67 |
| 0030 | 0.67 | 1.68 | 2.01 | 4.03 | 7.72 | 15.77 |
| 0100 | 0.33 | 1.98 | 2.64 | 4.29 | 8.25 | 18.15 |
| 0130 | 0.33 | 0.99 | 0.99 | 2.97 | 7.59 | 17.16 |
| 0200 | 0.66 | 1.65 | 1.65 | 3.30 | 5.61 | 14.52 |
| 0230 | 0.33 | 0.99 | 1.66 | 4.30 | 8.28 | 16.23 |
| 0300 | 0.33 | 0.66 | 1.00 | 1.99 | 6.98 | 11.96 |
| 0330 | - | 1.97 | 2.62 | 4.59 | 9.51 | 14.43 |
| 0400 | 1.00 | 2.67 | 3.33 | 6.33 | 12.00 | 17.67 |
| 0430 | 0.66 | 3.61 | 3.93 | 7.21 | 11.15 | 16.07 |
| 0500 | - | 2.97 | 3.30 | 6.60 | 10.56 | 13.86 |
| 0530 | 0.33 | 3.00 | 3.67 | 6.67 | 12.00 | 16.00 |
| 0600 | - | 2.00 | 3.33 | 6.00 | 13.67 | 19.33 |
| 0630 | 0.66 | 2.66 | 4.32 | 6.98 | 11.96 | 17.28 |
| 0700 | - | 2.28 | 4.23 | 6.84 | 13.36 | 21.82 |
| 0730 | - | 1.67 | 3.01 | 6.69 | 12.37 | 19.73 |
| 0800 | - | 0.99 | 1.66 | 4.64 | 12.25 | 19.21 |
| 0830 | - | 1.00 | 1.33 | 2.66 | 6.64 | 16.61 |
| 0900 | - | 1.00 | 1.33 | 3.32 | 5.98 | 14.29 |
| 0930 | - | 1.00 | 1.00 | 3.00 | 6.33 | 13.00 |
| 1000 | - | 0.99 | 1.32 | 2.97 | 5.61 | 11.22 |
| 1030 | - | 1.66 | 1.99 | 2.65 | 6.62 | 11.92 |
| 1100 | - | 1.33 | 1.66 | 1.99 | 5.65 | 10.96 |
| 1130 | - | 0.66 | 0.66 | 1.99 | 5.32 | 9.63 |
| 1200 | - | 0.98 | 0.98 | 1.97 | 3.61 | 8.20 |
| 1230 | 0.34 | 1.01 | 1.01 | 2.36 | 4.04 | 10.10 |
| 1300 | 0.33 | 1.31 | 1.31 | 2.62 | 5.90 | 10.16 |
| 1330 | 0.33 | 0.33 | 0.33 | 1.32 | 4.93 | 8.55 |
| 1400 | - | 0.67 | 0.67 | 1.67 | 4.00 | 8.67 |
| 1430 | - | 0.33 | 1.32 | 1.32 | 2.96 | 8.55 |
| 1500 | - | 0.33 | 0.99 | 1.66 | 3.31 | 9.27 |
| 1530 | - | 0.66 | 0.66 | 1.66 | 3.97 | 8.28 |
| 1600 | 0.33 | 1.32 | 1.32 | 2.65 | 3.64 | 8.28 |
| 1630 | 0.33 | 0.66 | 0.98 | 1.97 | 4.92 | 10.16 |
| 1700 | - | 0.66 | 0.99 | 1.32 | 4.61 | 9.21 |
| 1730 | 0.33 | 0.99 | 1.64 | 1.64 | 4.93 | 10.53 |
| 1800 | - | 1.00 | 1.99 | 3.32 | 4.98 | 9.97 |
| 1830 | 0.33 | 1.32 | 2.30 | 2.96 | 5.26 | 10.86 |
| 1900 | - | 1.31 | 1.97 | 2.62 | 4.59 | 10.16 |
| 1930 | - | 1.32 | 2.31 | 4.29 | 6.93 | 9.90 |
| 2000 | 0.65 | 1.96 | 2.94 | 5.23 | 7.84 | 12.42 |
| 2030 | 1.31 | 3.59 | 4.58 | 6.21 | 8.82 | 12.09 |
| 2100 | 1.62 | 4.55 | 4.87 | 5.84 | 8.12 | 12.01 |
| 2130 | 0.33 | 3.95 | 4.28 | 6.91 | 9.21 | 14.47 |
| 2200 | 0.33 | 3.29 | 3.62 | 6.91 | 8.88 | 14.14 |
| 2230 | 0.33 | 3.32 | 3.99 | 7.31 | 9.63 | 15.61 |
| 2300 | 0.67 | 3.00 | 3.00 | 4.67 | 8.67 | 15.67 |
| 2330 | 0.66 | 3.63 | 3.96 | 6.60 | 8.58 | 15.51 |
| Mean | 0.30 | 1.74 | 2.25 | 3.99 | 7.42 | 13.21 |




In November, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 43.9%
2. >500FT and <= 1000FT – 26.0%
3. >300FT and <= 500FT – 13.2%
4. >200FT and <= 300FT – 3.9%
5. >100FT and <= 200FT – 10.9%
6. <=100FT – 2.2%

In November, the mean percentage of cloud ceiling recorded above 1500 feet is 86.79% of the total amount of occurrences (See climatological table of November, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.30 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of November, Model C).

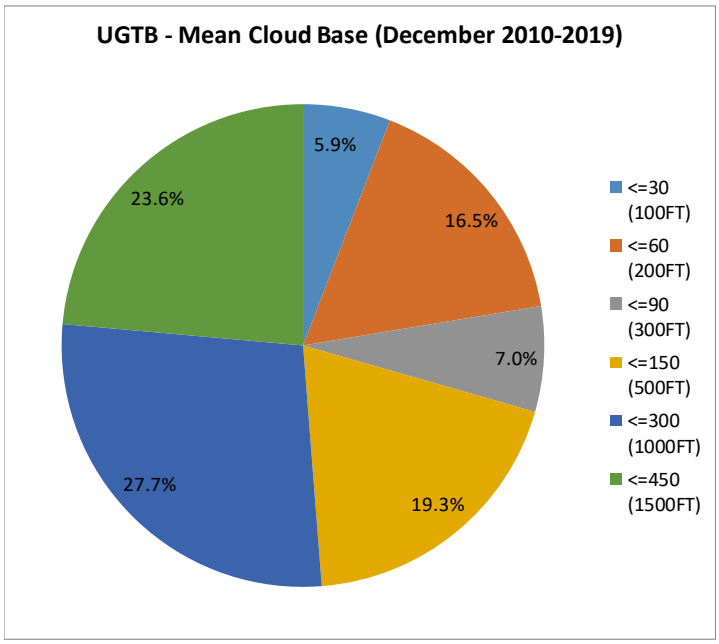
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGTB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | 1.94 | 4.21 | 4.85 | 7.12 | 11.00 | 13.59 |
| 0030 | 2.26 | 5.16 | 5.48 | 8.39 | 12.26 | 15.16 |
| 0100 | 1.29 | 4.21 | 4.85 | 8.41 | 14.24 | 16.18 |
| 0130 | 1.60 | 5.13 | 5.77 | 7.69 | 12.50 | 14.74 |
| 0200 | 0.98 | 3.92 | 4.90 | 7.84 | 12.09 | 14.38 |
| 0230 | 0.95 | 3.49 | 4.76 | 8.25 | 11.11 | 13.97 |
| 0300 | 0.98 | 2.93 | 3.91 | 7.17 | 10.10 | 12.70 |
| 0330 | 0.97 | 4.84 | 5.16 | 7.42 | 10.00 | 13.87 |
| 0400 | 0.97 | 3.55 | 3.87 | 6.45 | 10.65 | 14.19 |
| 0430 | 0.65 | 3.58 | 4.23 | 7.49 | 9.77 | 13.03 |
| 0500 | 0.65 | 4.55 | 4.55 | 6.82 | 10.06 | 14.29 |
| 0530 | 0.32 | 3.90 | 5.52 | 8.12 | 10.06 | 13.64 |
| 0600 | 0.65 | 3.58 | 4.56 | 7.17 | 9.45 | 13.36 |
| 0630 | 0.33 | 2.30 | 5.25 | 6.89 | 8.85 | 12.79 |
| 0700 | 0.65 | 1.62 | 3.57 | 6.82 | 9.74 | 12.66 |
| 0730 | 0.33 | 1.63 | 2.29 | 5.56 | 8.82 | 11.11 |
| 0800 | 0.32 | 1.94 | 2.26 | 4.84 | 7.10 | 11.29 |
| 0830 | 0.33 | 1.31 | 1.64 | 3.28 | 6.89 | 9.84 |
| 0900 | 0.33 | 0.99 | 1.64 | 2.96 | 5.92 | 8.22 |
| 0930 | - | 0.33 | 0.98 | 2.61 | 4.25 | 7.19 |
| 1000 | - | 0.32 | 1.29 | 2.26 | 4.84 | 6.77 |
| 1030 | - | 0.33 | 0.65 | 2.29 | 4.25 | 5.88 |
| 1100 | 0.32 | 0.32 | 0.65 | 1.62 | 2.60 | 5.52 |
| 1130 | - | 0.65 | 0.98 | 1.30 | 3.26 | 6.19 |
| 1200 | 0.33 | 0.65 | 0.98 | 1.30 | 2.93 | 4.56 |
| 1230 | - | 0.66 | 0.99 | 1.32 | 2.97 | 4.95 |
| 1300 | - | 0.32 | 0.65 | 1.94 | 2.58 | 4.19 |
| 1330 | - | 0.66 | 1.31 | 2.30 | 3.93 | 4.92 |
| 1400 | - | - | 0.32 | 1.62 | 2.27 | 3.90 |
| 1430 | - | - | 0.65 | 1.63 | 2.61 | 4.23 |
| 1500 | - | 0.32 | 1.29 | 2.58 | 3.23 | 3.55 |
| 1530 | - | 0.65 | 0.97 | 2.27 | 3.90 | 4.55 |
| 1600 | 0.65 | 0.97 | 1.62 | 2.59 | 3.88 | 5.18 |
| 1630 | 0.32 | 0.65 | 0.97 | 2.60 | 3.90 | 5.19 |
| 1700 | 0.32 | 1.30 | 1.62 | 1.95 | 3.25 | 6.17 |
| 1730 | 0.32 | 0.97 | 1.62 | 2.59 | 5.50 | 7.77 |
| 1800 | 0.32 | 1.62 | 1.95 | 3.25 | 5.52 | 7.47 |
| 1830 | - | 0.32 | 1.95 | 2.92 | 4.87 | 5.84 |
| 1900 | - | 0.97 | 1.62 | 3.25 | 5.19 | 6.17 |
| 1930 | 0.32 | 0.97 | 2.59 | 3.56 | 4.85 | 6.15 |
| 2000 | 0.32 | 1.29 | 1.61 | 1.94 | 4.52 | 5.48 |
| 2030 | 0.65 | 2.28 | 2.61 | 4.89 | 7.82 | 8.79 |
| 2100 | 0.98 | 3.28 | 3.61 | 5.90 | 8.52 | 10.16 |
| 2130 | 0.97 | 3.87 | 3.87 | 5.16 | 10.00 | 11.29 |
| 2200 | 0.97 | 3.87 | 3.87 | 5.16 | 10.65 | 11.61 |
| 2230 | 1.61 | 4.52 | 4.84 | 7.74 | 11.29 | 13.23 |
| 2300 | 1.63 | 3.91 | 5.21 | 8.14 | 11.07 | 13.36 |
| 2330 | 1.30 | 3.58 | 3.91 | 6.19 | 11.40 | 13.68 |
| Mean | 0.58 | 2.13 | 2.80 | 4.62 | 7.22 | 9.44 |




In December, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 23.6%
2. >500FT and <= 1000FT – 27.7%
3. >300FT and <= 500FT – 19.3%
4. >200FT and <= 300FT – 7.0%
5. >100FT and <= 200FT – 16.5%
6. <=100FT – 5.9%

In December, the mean percentage of cloud ceiling recorded above 1500 feet is 90.56% of the total amount of occurrences (See climatological table of December, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.58 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of December, Model C).

## AERONAUTICAL CLIMATOLOGY

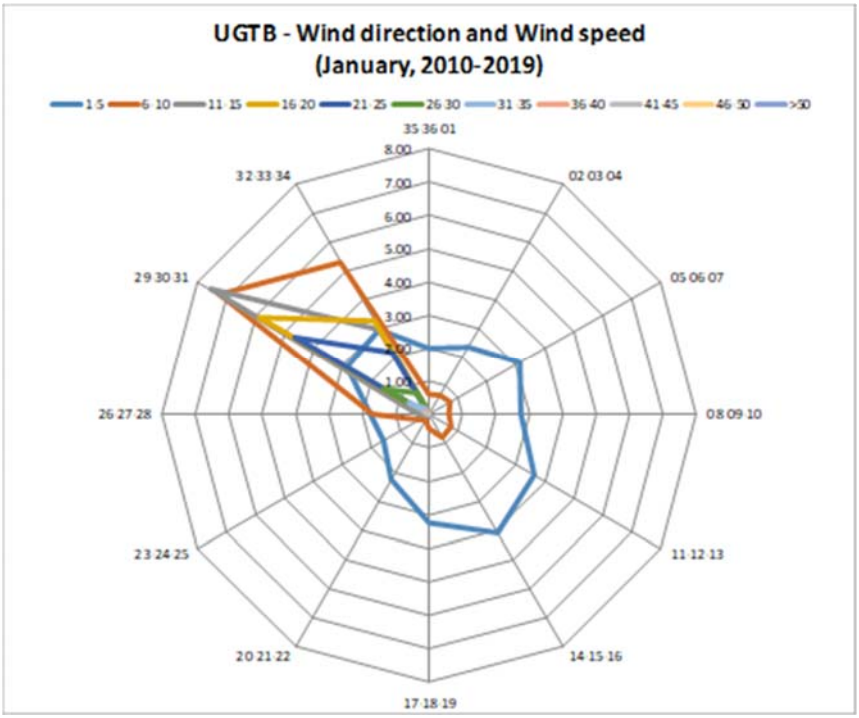
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 10.32 |
| VARIABLE | 7.02 | 0.05 | - | - | - | - | - | - | - | - | - | 7.07 |
| 35-36-01 | 2.01 | 0.60 | 0.06 | 0.03 | - | - | - | - | - | - | - | 2.70 |
| 02-03-04 | 2.35 | 0.66 | - | - | - | - | - | - | - | - | - | 3.01 |
| 05-06-07 | 3.13 | 0.72 | 0.01 | - | - | - | - | - | - | - | - | 3.85 |
| 08-09-10 | 2.75 | 0.60 | - | - | - | - | - | - | - | - | - | 3.35 |
| 11-12-13 | 3.63 | 0.74 | 0.01 | - | - | - | - | - | - | - | - | 4.38 |
| 14-15-16 | 4.09 | 0.80 | - | - | - | - | - | - | - | - | - | 4.89 |
| 17-18-19 | 3.23 | 0.41 | 0.01 | - | - | - | - | - | - | - | - | 3.65 |
| 20-21-22 | 2.26 | 0.19 | 0.01 | 0.01 | - | - | - | - | - | - | - | 2.46 |
| 23-24-25 | 1.57 | 0.34 | 0.02 | - | - | - | - | - | - | - | - | 1.93 |
| 26-27-28 | 1.77 | 1.71 | 0.33 | 0.07 | 0.03 | - | - | - | - | - | - | 3.90 |
| 29-30-31 | 2.84 | 7.26 | 7.55 | 5.88 | 4.64 | 1.57 | 0.70 | 0.16 | 0.11 | 0.01 | - | 30.73 |
| 32-33-34 | 2.96 | 5.30 | 2.98 | 3.28 | 2.17 | 0.73 | 0.20 | 0.09 | 0.03 | 0.01 | - | 17.76 |
| TOTAL | 39.60 | 19.39 | 10.97 | 9.25 | 6.85 | 2.30 | 0.90 | 0.25 | 0.14 | 0.02 | - | 100 |




**CALM**
10.32%

**VARIABLE**
7.07%

The prevailing wind directions of 290º-340º frequency of occurrence is 48.49%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequencies of occurrence 58.99%).

The maximum wind of 46-50 knots is observed within the 290º-340º sector (frequency of occurrence 0.02%).

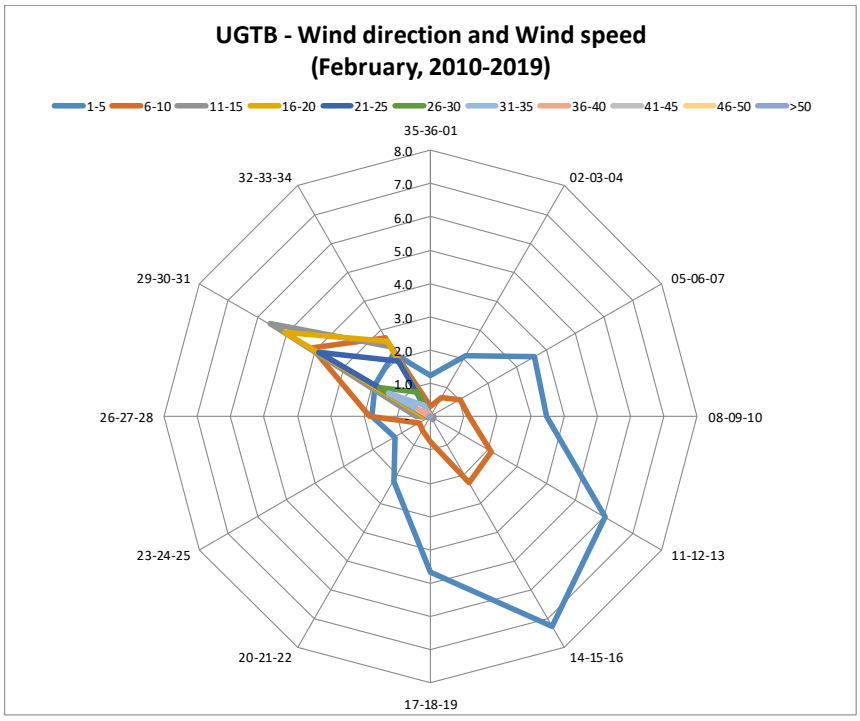
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 9.75 |
| VARIABLE | 6.6 | 0.1 | - | - | - | - | - | - | - | - | - | 6.66 |
| 35-36-01 | 1.3 | 0.3 | 0.08 | 0.01 | 0.01 | - | - | - | - | - | - | 1.65 |
| 02-03-04 | 2.1 | 0.7 | - | - | - | - | - | - | - | - | - | 2.80 |
| 05-06-07 | 3.6 | 1.0 | 0.03 | - | - | - | - | - | - | - | - | 4.67 |
| 08-09-10 | 3.5 | 1.2 | 0.1 | - | - | - | - | - | - | - | - | 4.76 |
| 11-12-13 | 6.1 | 2.1 | 0.1 | - | - | - | - | - | - | - | - | 8.25 |
| 14-15-16 | 7.3 | 2.3 | 0.12 | - | - | - | - | - | - | - | - | 9.67 |
| 17-18-19 | 4.7 | 0.7 | - | - | - | - | - | - | - | - | - | 5.42 |
| 20-21-22 | 2.2 | 0.5 | 0.01 | - | - | - | - | - | - | - | - | 2.72 |
| 23-24-25 | 1.2 | 0.4 | 0.02 | - | - | - | - | - | - | - | - | 1.67 |
| 26-27-28 | 1.8 | 1.8 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.46 |
| 29-30-31 | 1.9 | 4.1 | 5.6 | 5.1 | 3.9 | 1.8 | 1.4 | 0.4 | 0.0 | 0.0 | - | 24.20 |
| 32-33-34 | 2.2 | 2.7 | 2.4 | 2.6 | 1.9 | 0.8 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 13.32 |
| TOTAL | 44.39 | 17.92 | 8.90 | 7.90 | 5.90 | 2.64 | 1.85 | 0.60 | 0.05 | 0.05 | 0.04 | 100 |




**CALM**
9.75%

**VARIABLE**
6.66%

The prevailing wind directions of 290º-340º frequency of occurrence is 37.52%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequencies of occurrence 62.31%).

The maximum wind of >50 knots is observed within the 260º-280º and 320º-340º sectors (frequency of occurrence 0.04%).

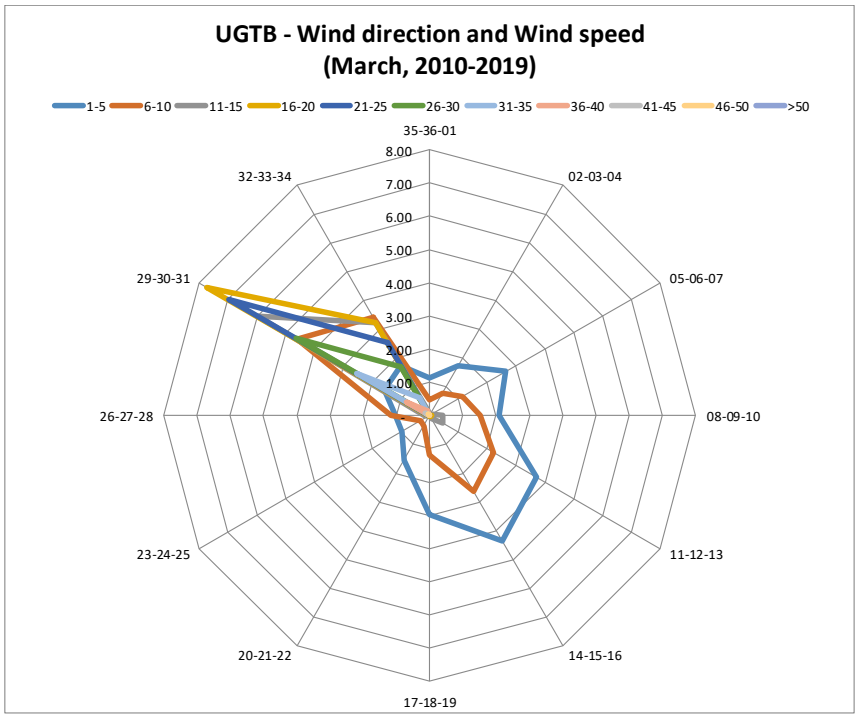
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 6.07 |
| VARIABLE | 6.39 | 0.23 | - | - | - | - | - | - | - | - | - | 6.63 |
| 35-36-01 | 1.14 | 0.48 | 0.07 | 0.01 | - | - | - | - | - | - | - | 1.70 |
| 02-03-04 | 1.74 | 0.78 | 0.02 | 0.01 | - | - | - | - | - | - | - | 2.55 |
| 05-06-07 | 2.64 | 1.14 | 0.09 | - | - | - | - | - | - | - | - | 3.88 |
| 08-09-10 | 2.09 | 1.51 | 0.40 | 0.05 | - | - | - | - | - | - | - | 4.06 |
| 11-12-13 | 3.70 | 2.22 | 0.44 | 0.03 | - | - | - | - | - | - | - | 6.39 |
| 14-15-16 | 4.36 | 2.62 | 0.10 | 0.01 | - | - | - | - | - | - | - | 7.10 |
| 17-18-19 | 2.97 | 1.17 | - | - | - | - | - | - | - | - | - | 4.14 |
| 20-21-22 | 1.55 | 0.35 | - | - | - | - | - | - | - | - | - | 1.90 |
| 23-24-25 | 0.96 | 0.29 | 0.02 | 0.01 | - | - | - | - | - | - | - | 1.29 |
| 26-27-28 | 1.03 | 1.16 | 0.17 | 0.09 | 0.05 | 0.01 | - | - | - | - | - | 2.52 |
| 29-30-31 | 1.56 | 4.59 | 5.96 | 7.74 | 6.97 | 4.65 | 2.54 | 0.81 | 0.16 | 0.06 | - | 35.06 |
| 32-33-34 | 1.74 | 3.41 | 3.23 | 3.25 | 2.56 | 1.71 | 0.64 | 0.15 | 0.05 | - | - | 16.73 |
| TOTAL | 31.88 | 19.98 | 10.50 | 11.20 | 9.59 | 6.37 | 3.18 | 0.96 | 0.21 | 0.06 | - | 100 |




**CALM**
6.07%

**VARIABLE**
6.63%

The prevailing wind directions of 290º-340º frequency of occurrence is 51.79%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequencies of occurrence 51.86%).

The maximum wind of 46-50 knots is observed within the 290º-310º sector (frequency of occurrence 0.06%).

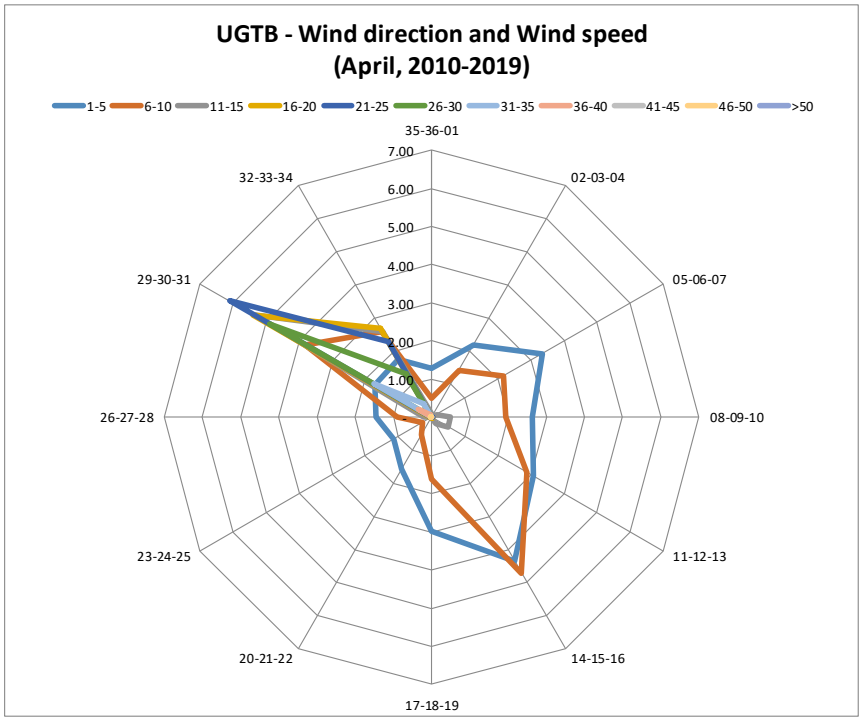
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 5.14 |
| VARIABLE | 8.33 | 0.32 | - | 0.01 | - | - | - | - | - | - | - | 8.66 |
| 35-36-01 | 1.28 | 0.51 | 0.10 | 0.01 | - | 0.01 | - | - | - | - | - | 1.91 |
| 02-03-04 | 2.18 | 1.43 | 0.03 | 0.01 | - | - | - | - | - | - | - | 3.65 |
| 05-06-07 | 3.35 | 2.17 | 0.15 | 0.01 | 0.01 | - | - | - | - | - | - | 5.70 |
| 08-09-10 | 2.63 | 1.93 | 0.48 | 0.03 | 0.01 | - | - | - | - | - | - | 5.07 |
| 11-12-13 | 3.07 | 2.89 | 0.48 | 0.03 | - | - | - | - | - | - | - | 6.48 |
| 14-15-16 | 4.36 | 4.72 | 0.20 | - | - | - | - | - | - | - | - | 9.27 |
| 17-18-19 | 2.98 | 1.62 | 0.03 | - | - | - | - | - | - | - | - | 4.64 |
| 20-21-22 | 1.56 | 0.54 | 0.01 | 0.01 | 0.01 | - | - | - | - | - | - | 2.13 |
| 23-24-25 | 1.15 | 0.28 | 0.01 | 0.01 | - | - | - | - | - | - | - | 1.45 |
| 26-27-28 | 1.44 | 0.89 | 0.19 | 0.06 | 0.02 | - | - | - | - | - | - | 2.60 |
| 29-30-31 | 1.71 | 3.82 | 5.34 | 5.39 | 6.11 | 4.90 | 1.75 | 0.42 | 0.10 | 0.03 | - | 29.55 |
| 32-33-34 | 1.75 | 2.60 | 2.58 | 2.69 | 2.30 | 1.32 | 0.42 | 0.08 | 0.02 | - | - | 13.75 |
| TOTAL | 35.78 | 23.72 | 9.60 | 8.25 | 8.46 | 6.22 | 2.17 | 0.50 | 0.12 | 0.03 | - | 100 |




**CALM**
5.14%

**VARIABLE**
8.66%

The prevailing wind directions of 290º-340º frequency of occurrence is 43.30%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequencies of occurrence 59.50%).

The maximum wind of 46-50 knots is observed within the 290º-310º sector (frequency of occurrence 0.03%).

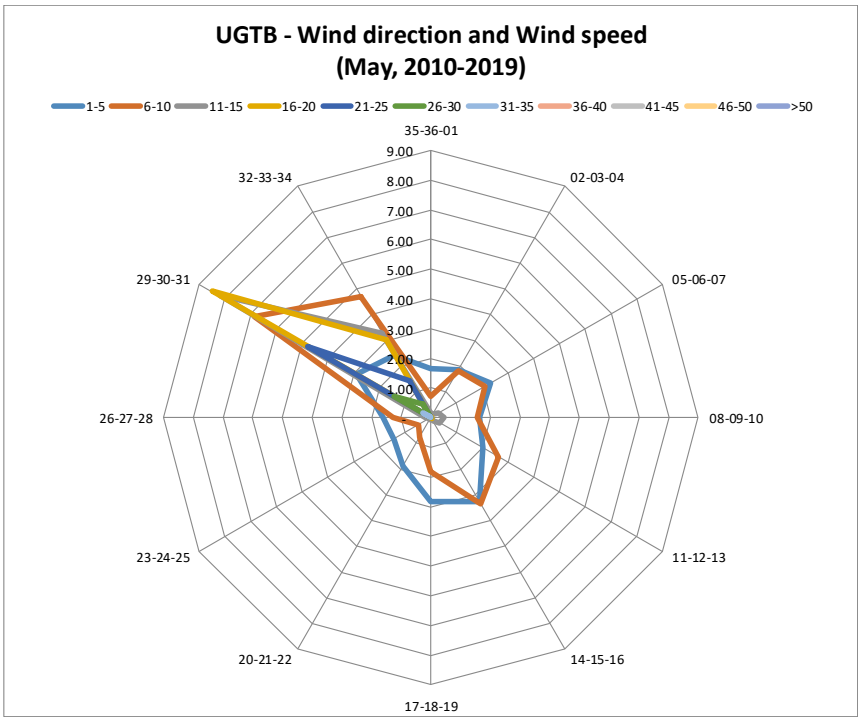
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 3.83 |
| VARIABLE | 8.20 | 0.47 | 0.02 | - | - | - | - | - | - | - | - | 8.69 |
| 35-36-01 | 1.66 | 0.73 | 0.14 | 0.02 | - | - | - | - | - | - | - | 2.55 |
| 02-03-04 | 1.87 | 1.82 | 0.15 | 0.03 | - | - | 0.01 | - | - | - | - | 3.88 |
| 05-06-07 | 2.33 | 2.12 | 0.28 | 0.03 | 0.01 | - | - | - | - | - | - | 4.77 |
| 08-09-10 | 1.62 | 1.56 | 0.43 | 0.05 | 0.01 | - | - | - | - | - | - | 3.67 |
| 11-12-13 | 2.03 | 2.64 | 0.34 | 0.03 | - | - | - | - | - | - | - | 5.03 |
| 14-15-16 | 3.26 | 3.34 | 0.10 | - | - | - | - | - | - | - | - | 6.69 |
| 17-18-19 | 2.82 | 1.83 | 0.01 | - | - | - | - | - | - | - | - | 4.65 |
| 20-21-22 | 1.88 | 0.78 | 0.05 | - | - | - | - | - | - | - | - | 2.72 |
| 23-24-25 | 1.44 | 0.49 | 0.04 | 0.01 | - | - | - | - | - | - | - | 1.97 |
| 26-27-28 | 1.61 | 1.27 | 0.18 | 0.01 | - | - | - | - | - | - | - | 3.07 |
| 29-30-31 | 2.90 | 6.85 | 8.20 | 8.51 | 4.79 | 1.43 | 0.32 | 0.01 | - | - | - | 33.01 |
| 32-33-34 | 2.45 | 4.70 | 3.28 | 3.01 | 1.42 | 0.54 | 0.06 | 0.01 | - | - | - | 15.45 |
| TOTAL | 34.06 | 28.58 | 13.22 | 11.71 | 6.22 | 1.97 | 0.38 | 0.02 | - | - | - | 100 |




**CALM**
3.83%

**VARIABLE**
8.69%

The prevailing wind directions of 290º-340º frequency of occurrence is 48.46%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 62.64%).

The maximum wind of 36-40 knots is observed within the 290º-310º sectors (frequency of occurrence 0.02%).

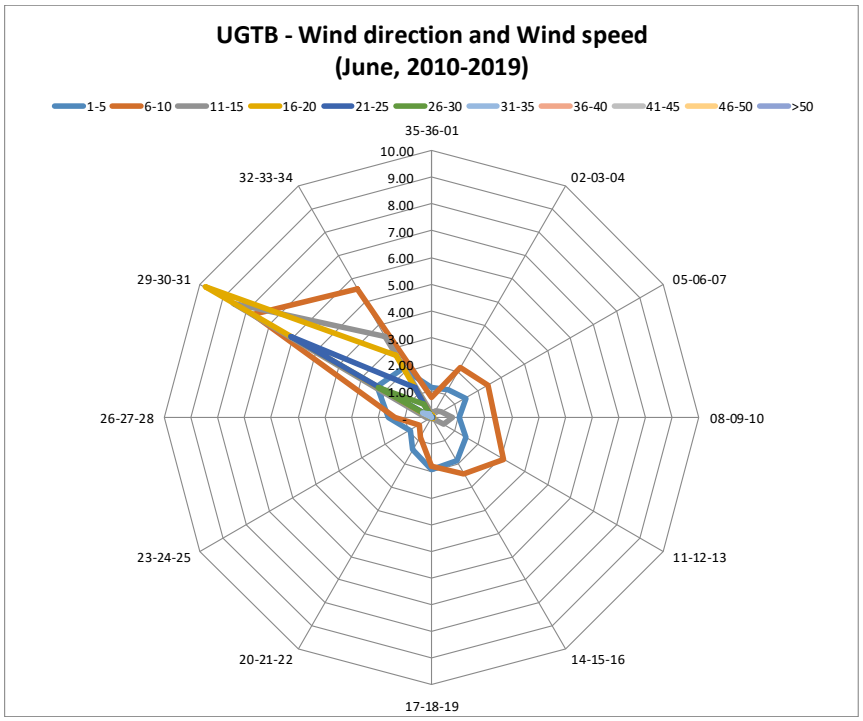
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 2.82 |
| VARIABLE | 8.23 | 0.88 | 0.05 | 0.02 | - | 0.01 | - | - | - | - | - | 9.19 |
| 35-36-01 | 1.13 | 0.78 | 0.16 | 0.04 | 0.01 | 0.01 | - | - | - | - | - | 2.12 |
| 02-03-04 | 1.19 | 2.18 | 0.32 | 0.11 | 0.01 | - | - | - | - | - | - | 3.81 |
| 05-06-07 | 1.46 | 2.44 | 0.41 | 0.03 | 0.02 | - | - | - | - | - | - | 4.36 |
| 08-09-10 | 1.04 | 2.36 | 0.79 | 0.09 | 0.01 | - | - | - | - | - | - | 4.29 |
| 11-12-13 | 1.47 | 3.10 | 0.51 | 0.05 | - | - | - | - | - | - | - | 5.14 |
| 14-15-16 | 1.87 | 2.42 | 0.05 | - | - | - | - | - | - | - | - | 4.35 |
| 17-18-19 | 1.95 | 1.79 | 0.01 | 0.01 | - | - | - | - | - | - | - | 3.76 |
| 20-21-22 | 1.39 | 0.83 | 0.03 | - | - | - | - | - | - | - | - | 2.25 |
| 23-24-25 | 0.94 | 0.54 | 0.04 | 0.01 | - | - | - | - | - | - | - | 1.54 |
| 26-27-28 | 1.61 | 1.39 | 0.22 | 0.04 | 0.01 | 0.01 | - | - | - | - | - | 3.28 |
| 29-30-31 | 2.33 | 7.70 | 8.59 | 9.77 | 6.08 | 2.29 | 0.37 | 0.03 | - | - | - | 37.17 |
| 32-33-34 | 2.14 | 5.56 | 3.50 | 2.71 | 1.30 | 0.58 | 0.16 | 0.01 | - | - | - | 15.95 |
| TOTAL | 26.75 | 31.98 | 14.67 | 12.88 | 7.44 | 2.89 | 0.54 | 0.04 | - | - | - | 100 |




**CALM**
2.82%

**VARIABLE**
9.19%

The prevailing wind directions of 290º-340º frequency of occurrence is 53.12%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 58.73%).

The maximum wind of 36-40 knots is observed within the 290º-310º and 320º-340º sectors (frequency of occurrence 0.04%).

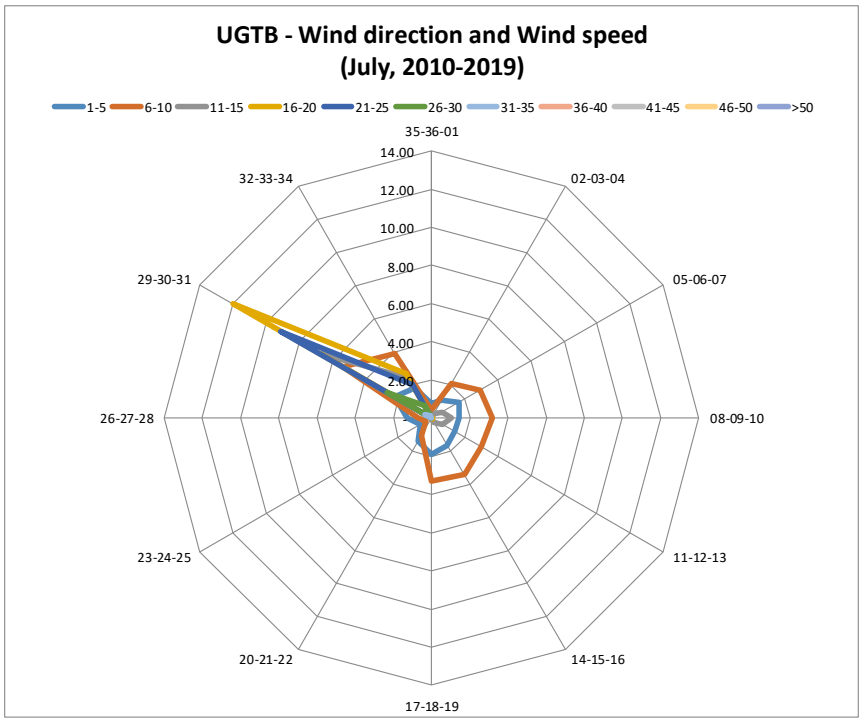
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 2.75 |
| VARIABLE | 6.94 | 0.98 | 0.03 | - | - | - | - | - | - | - | - | 7.94 |
| 35-36-01 | 0.80 | 0.41 | 0.07 | 0.01 | - | - | - | - | - | - | - | 1.28 |
| 02-03-04 | 1.07 | 2.07 | 0.30 | 0.02 | - | - | - | - | - | - | - | 3.45 |
| 05-06-07 | 1.65 | 2.91 | 0.64 | 0.01 | - | - | - | - | - | - | - | 5.21 |
| 08-09-10 | 1.46 | 3.18 | 1.06 | 0.04 | - | - | - | - | - | - | - | 5.74 |
| 11-12-13 | 1.41 | 3.02 | 0.65 | 0.08 | - | - | - | - | - | - | - | 5.16 |
| 14-15-16 | 1.65 | 3.40 | 0.24 | 0.01 | - | - | - | - | - | - | - | 5.31 |
| 17-18-19 | 1.92 | 3.31 | 0.04 | - | - | - | - | - | - | - | - | 5.27 |
| 20-21-22 | 1.41 | 1.04 | 0.01 | - | - | - | - | - | - | - | - | 2.46 |
| 23-24-25 | 0.70 | 0.32 | 0.01 | 0.01 | - | - | - | - | - | - | - | 1.03 |
| 26-27-28 | 1.30 | 0.68 | 0.07 | - | - | - | - | - | - | - | - | 2.05 |
| 29-30-31 | 2.22 | 5.36 | 6.71 | 12.03 | 9.13 | 2.69 | 0.42 | 0.03 | - | - | - | 38.57 |
| 32-33-34 | 1.80 | 3.87 | 2.46 | 2.70 | 2.01 | 0.75 | 0.17 | - | - | - | - | 13.77 |
| TOTAL | 24.32 | 30.55 | 12.29 | 14.91 | 11.13 | 3.43 | 0.60 | 0.03 | - | - | - | 100 |




**CALM**
2.75%

**VARIABLE**
7.94%

The prevailing wind directions of 290º-340º frequency of occurrence is 52.34%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 54.87%).

The maximum wind of 36-40 knots is observed within the 290º-310º sector (frequency of occurrence 0.03%).

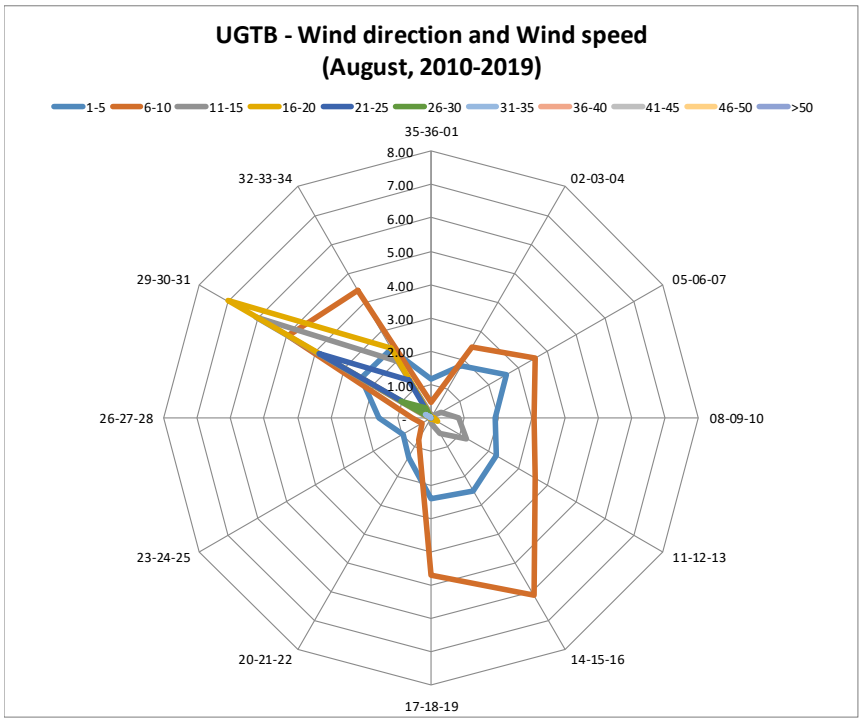
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 3.17 |
| VARIABLE | 8.94 | 1.31 | 0.01 | - | - | - | - | - | - | - | - | 10.26 |
| 35-36-01 | 1.18 | 0.46 | 0.12 | 0.03 | - | - | - | - | - | - | - | 1.80 |
| 02-03-04 | 1.80 | 2.44 | 0.10 | 0.05 | 0.01 | 0.01 | - | - | - | - | - | 4.40 |
| 05-06-07 | 2.61 | 3.60 | 0.33 | 0.01 | - | - | - | - | - | - | - | 6.56 |
| 08-09-10 | 1.90 | 3.07 | 0.82 | 0.08 | - | - | - | - | - | - | - | 5.88 |
| 11-12-13 | 2.24 | 3.58 | 1.24 | 0.21 | - | - | - | - | - | - | - | 7.26 |
| 14-15-16 | 2.51 | 6.12 | 0.54 | 0.02 | - | - | - | - | - | - | - | 9.20 |
| 17-18-19 | 2.40 | 4.71 | 0.16 | 0.01 | - | - | - | - | - | - | - | 7.27 |
| 20-21-22 | 1.36 | 0.75 | 0.03 | 0.01 | - | - | - | - | - | - | - | 2.15 |
| 23-24-25 | 0.96 | 0.31 | 0.02 | - | 0.01 | - | - | - | - | - | - | 1.30 |
| 26-27-28 | 1.56 | 0.57 | 0.08 | 0.04 | 0.01 | - | - | - | - | - | - | 2.26 |
| 29-30-31 | 2.42 | 4.94 | 6.06 | 7.02 | 3.87 | 1.04 | 0.20 | 0.01 | - | - | - | 25.56 |
| 32-33-34 | 2.39 | 4.41 | 1.98 | 2.41 | 1.32 | 0.35 | 0.06 | 0.01 | - | - | - | 12.94 |
| TOTAL | 32.26 | 36.28 | 11.48 | 9.90 | 5.22 | 1.40 | 0.27 | 0.02 | - | - | - | 100 |




**CALM**
3.17%

**VARIABLE**
10.26%

The prevailing wind directions of 290º-340º frequency of occurrence is 38.50%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 68.54%).

The maximum wind of 36-40 knots is observed within the 290º-310º and 320º-340º sectors (frequency of occurrence 0.02%).

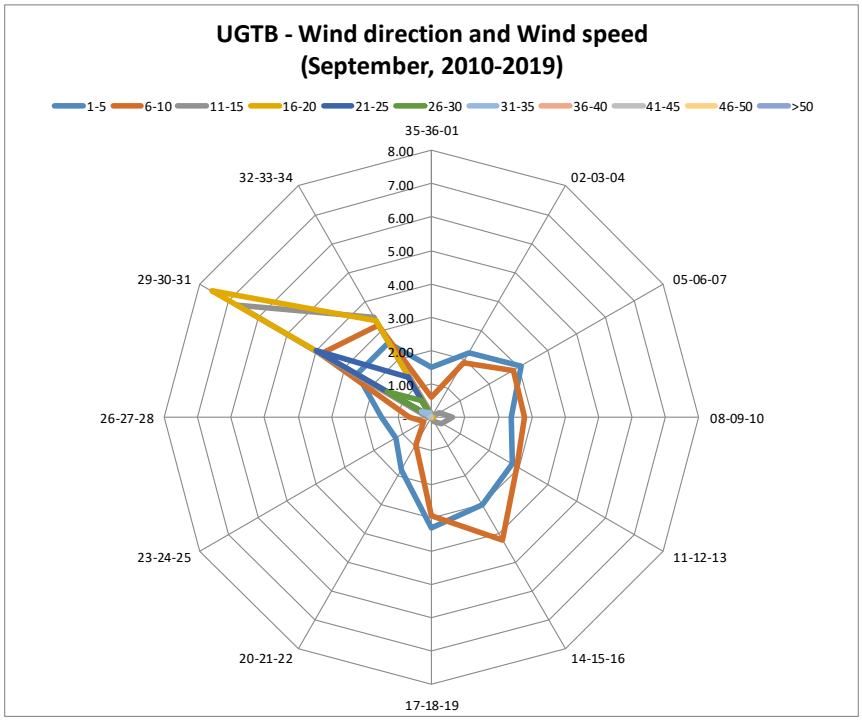
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 4.32 |
| VARIABLE | 8.83 | 0.65 | 0.01 | - | - | - | - | - | - | - | - | 9.49 |
| 35-36-01 | 1.49 | 0.59 | 0.11 | 0.03 | - | 0.01 | - | - | - | - | - | 2.23 |
| 02-03-04 | 2.24 | 1.89 | 0.03 | 0.01 | - | - | - | - | - | - | - | 4.18 |
| 05-06-07 | 3.08 | 2.84 | 0.27 | 0.02 | - | - | - | - | - | - | - | 6.21 |
| 08-09-10 | 2.37 | 2.79 | 0.61 | 0.05 | - | - | - | - | - | - | - | 5.82 |
| 11-12-13 | 2.79 | 2.95 | 0.35 | 0.03 | - | - | - | - | - | - | - | 6.13 |
| 14-15-16 | 3.02 | 4.24 | 0.15 | - | - | - | - | - | - | - | - | 7.40 |
| 17-18-19 | 3.31 | 2.95 | 0.01 | - | - | - | - | - | - | - | - | 6.27 |
| 20-21-22 | 1.82 | 0.94 | 0.01 | - | - | - | - | - | - | - | - | 2.77 |
| 23-24-25 | 1.22 | 0.27 | 0.01 | - | 0.01 | - | - | - | - | - | - | 1.52 |
| 26-27-28 | 1.52 | 0.66 | 0.10 | 0.01 | 0.01 | - | - | - | - | - | - | 2.30 |
| 29-30-31 | 2.58 | 3.82 | 6.71 | 7.60 | 4.00 | 1.54 | 0.36 | 0.02 | 0.03 | - | - | 26.66 |
| 32-33-34 | 2.59 | 3.17 | 3.45 | 3.35 | 1.40 | 0.59 | 0.15 | 0.03 | - | - | - | 14.72 |
| TOTAL | 36.85 | 27.76 | 11.84 | 11.09 | 5.42 | 2.13 | 0.51 | 0.05 | 0.03 | - | - | 100 |




**CALM**
4.32%

**VARIABLE**
9.49%

The prevailing wind directions of 290º-340º frequency of occurrence is 41.38%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 64.61%).

The maximum wind of 41-45 knots is observed within the 290º-310º sectors (frequency of occurrence 0.03%).

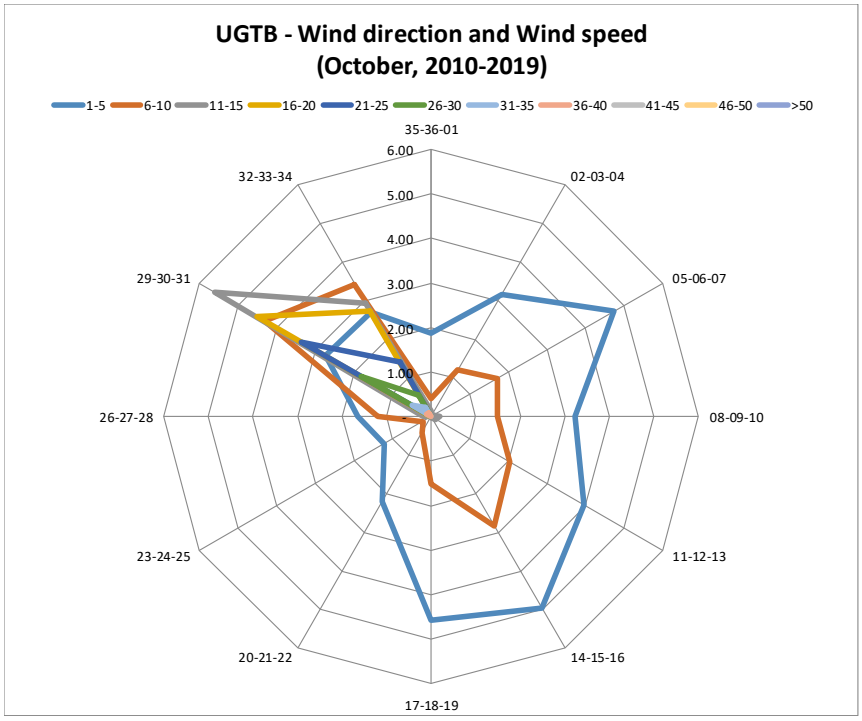
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 8.16 |
| VARIABLE | 9.17 | 0.17 | - | - | - | - | - | - | - | - | - | 9.34 |
| 35-36-01 | 1.89 | 0.41 | 0.14 | 0.01 | - | - | - | - | - | - | - | 2.45 |
| 02-03-04 | 3.18 | 1.20 | 0.03 | - | - | - | - | - | - | - | - | 4.41 |
| 05-06-07 | 4.74 | 1.71 | 0.09 | - | - | - | - | - | - | - | - | 6.54 |
| 08-09-10 | 3.23 | 1.49 | 0.20 | - | - | - | - | - | - | - | - | 4.92 |
| 11-12-13 | 3.97 | 2.04 | 0.11 | - | - | - | - | - | - | - | - | 6.12 |
| 14-15-16 | 4.95 | 2.84 | 0.01 | - | - | - | - | - | - | - | - | 7.80 |
| 17-18-19 | 4.57 | 1.51 | - | - | - | - | - | - | - | - | - | 6.08 |
| 20-21-22 | 2.20 | 0.41 | 0.01 | - | - | - | - | - | - | - | - | 2.62 |
| 23-24-25 | 1.22 | 0.22 | - | - | - | - | - | - | - | - | - | 1.44 |
| 26-27-28 | 1.64 | 1.20 | 0.17 | 0.02 | 0.01 | 0.01 | - | - | - | - | - | 3.04 |
| 29-30-31 | 2.74 | 4.30 | 5.60 | 4.51 | 3.37 | 1.82 | 0.49 | 0.11 | - | - | - | 22.95 |
| 32-33-34 | 2.71 | 3.43 | 2.94 | 2.74 | 1.41 | 0.57 | 0.24 | 0.10 | - | - | - | 14.12 |
| TOTAL | 46.20 | 20.93 | 9.31 | 7.28 | 4.78 | 2.40 | 0.73 | 0.21 | - | - | - | 100 |




**CALM**
8.16%

**VARIABLE**
9.34%

The prevailing wind directions of 290º-340º frequency of occurrence is 37.07%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 67.13%).

The maximum wind of 36-40 knots is observed within the 290º-310º and 320º-340º sectors (frequency of occurrence 0.21%).

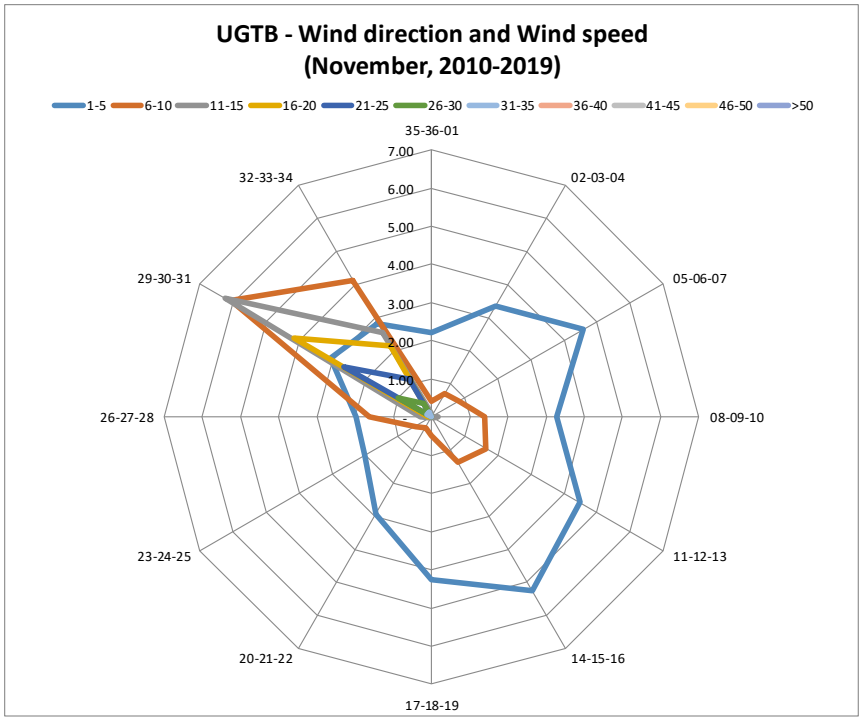
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 9.97 |
| VARIABLE | 8.77 | 0.06 | - | - | - | - | - | - | - | - | - | 8.82 |
| 35-36-01 | 2.21 | 0.42 | 0.09 | 0.01 | - | - | - | - | - | - | - | 2.73 |
| 02-03-04 | 3.35 | 0.71 | 0.01 | - | - | - | - | - | - | - | - | 4.06 |
| 05-06-07 | 4.58 | 0.85 | 0.02 | 0.01 | - | - | - | - | - | - | - | 5.46 |
| 08-09-10 | 3.27 | 1.39 | 0.17 | 0.01 | - | - | - | - | - | - | - | 4.83 |
| 11-12-13 | 4.47 | 1.65 | 0.05 | - | - | - | - | - | - | - | - | 6.17 |
| 14-15-16 | 5.26 | 1.37 | - | - | - | - | - | - | - | - | - | 6.63 |
| 17-18-19 | 4.24 | 0.49 | - | - | - | - | - | - | - | - | - | 4.74 |
| 20-21-22 | 2.94 | 0.31 | 0.01 | - | - | - | - | - | - | - | - | 3.26 |
| 23-24-25 | 2.01 | 0.49 | 0.03 | - | - | - | - | - | - | - | - | 2.53 |
| 26-27-28 | 1.98 | 1.62 | 0.28 | 0.08 | 0.01 | - | - | - | - | - | - | 3.98 |
| 29-30-31 | 3.07 | 6.09 | 6.26 | 4.15 | 2.65 | 1.03 | 0.15 | 0.01 | - | - | - | 23.39 |
| 32-33-34 | 2.84 | 4.14 | 2.56 | 2.16 | 1.16 | 0.40 | 0.15 | 0.01 | - | - | - | 13.41 |
| TOTAL | 48.99 | 19.59 | 9.47 | 6.42 | 3.81 | 1.42 | 0.31 | 0.02 | - | - | - | 100 |




**CALM**
9.97%

**VARIABLE**
8.82%

The prevailing wind directions of 290º-340º frequency of occurrence is 36.80%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 68.58%).

The maximum wind of 36-40 knots is observed within the 290º-310º and 320º-340º sectors (frequency of occurrence 0.02%).

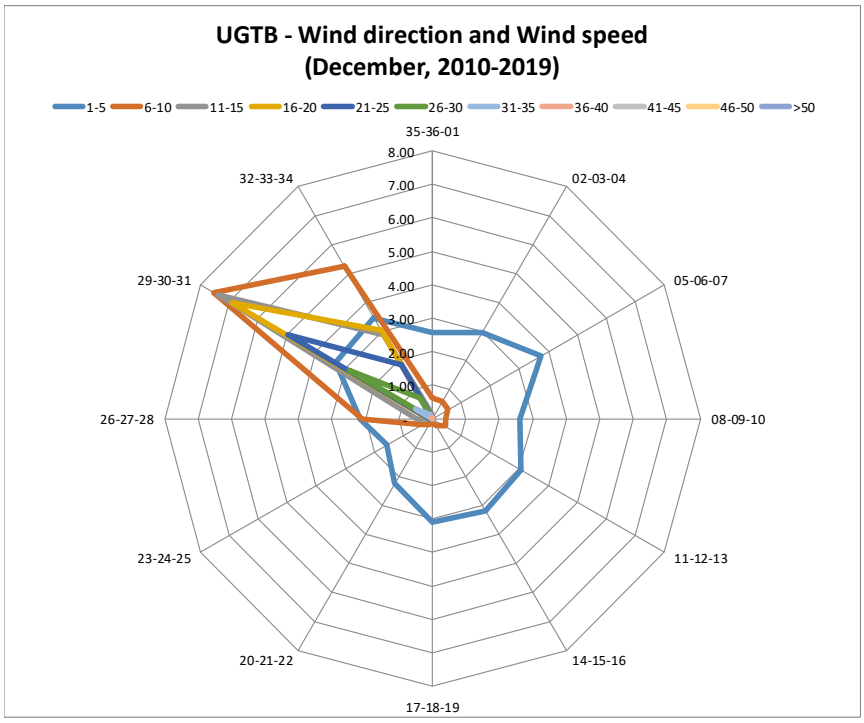
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 7.66 |
| VARIABLE | 7.52 | 0.03 | - | - | - | - | - | - | - | - | - | 7.55 |
| 35-36-01 | 2.58 | 0.63 | 0.11 | 0.01 | 0.01 | - | - | - | - | - | - | 3.33 |
| 02-03-04 | 2.98 | 0.61 | 0.03 | - | - | - | - | - | - | - | - | 3.62 |
| 05-06-07 | 3.74 | 0.54 | 0.03 | 0.01 | - | - | - | - | - | - | - | 4.32 |
| 08-09-10 | 2.60 | 0.39 | 0.03 | - | - | - | - | - | - | - | - | 3.02 |
| 11-12-13 | 3.07 | 0.46 | 0.01 | - | - | - | - | - | - | - | - | 3.53 |
| 14-15-16 | 3.18 | 0.26 | - | - | - | - | - | - | - | - | - | 3.44 |
| 17-18-19 | 3.11 | 0.16 | - | - | - | - | - | - | - | - | - | 3.27 |
| 20-21-22 | 2.23 | 0.19 | - | - | - | - | - | - | - | - | - | 2.42 |
| 23-24-25 | 1.56 | 0.38 | 0.01 | 0.01 | 0.01 | - | - | - | - | - | - | 1.97 |
| 26-27-28 | 2.14 | 2.10 | 0.46 | 0.11 | 0.07 | - | - | - | - | - | - | 4.89 |
| 29-30-31 | 3.32 | 7.53 | 7.38 | 6.92 | 4.99 | 2.87 | 0.56 | 0.03 | - | - | - | 33.59 |
| 32-33-34 | 3.48 | 5.26 | 2.90 | 3.06 | 1.84 | 0.71 | 0.14 | 0.01 | - | - | - | 17.40 |
| TOTAL | 41.50 | 18.54 | 10.96 | 10.11 | 6.92 | 3.58 | 0.70 | 0.04 | - | - | - | 100 |




**CALM**
7.66%

**VARIABLE**
7.55%

The prevailing wind directions of 290º-340º frequency of occurrence is 51.99%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 60.04%).

The maximum wind of 36-40 knots is observed within the 290º-310º and 320º-340º sectors (frequency of occurrence 0.04%).

**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

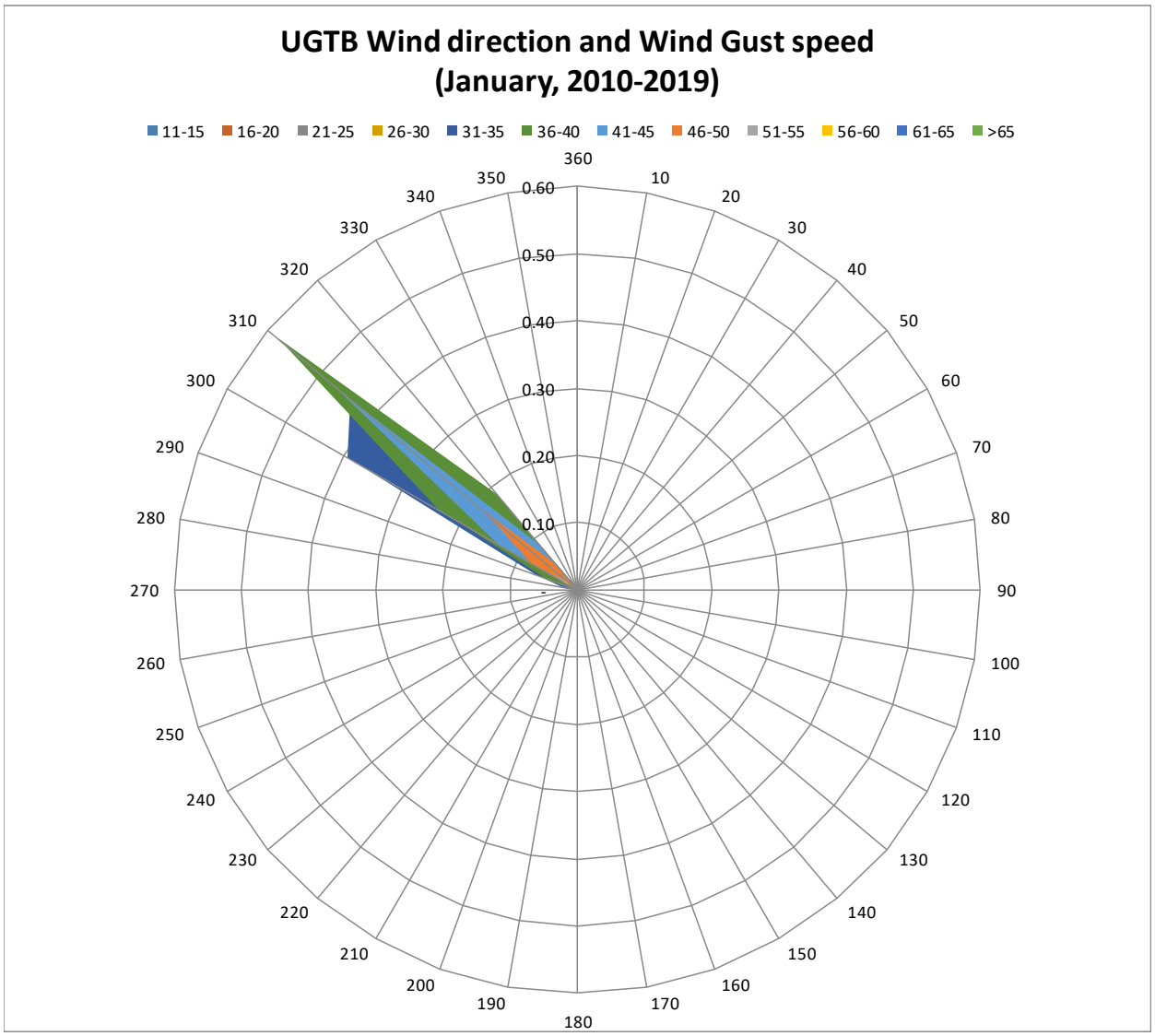
AERODROME: UGTB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | 0.01 | - | 0.01 | 0.01 | - | - | - | - | - | - | - | 0.03 |
| 270 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 280 | - | 0.01 | - | 0.01 | 0.02 | - | - | - | - | - | - | - | 0.03 |
| 290 | - | - | - | 0.07 | 0.07 | 0.05 | - | - | - | - | - | - | 0.18 |
| 300 | 0.01 | - | 0.04 | 0.15 | 0.39 | 0.24 | 0.13 | 0.08 | 0.06 | 0.03 | - | - | 1.14 |
| 310 | - | - | 0.03 | 0.11 | 0.44 | 0.58 | 0.46 | 0.18 | 0.02 | 0.02 | 0.01 | - | 1.85 |
| 320 | - | - | - | 0.04 | 0.18 | 0.19 | 0.09 | 0.05 | 0.01 | - | - | - | 0.56 |
| 330 | - | 0.01 | - | - | - | - | 0.01 | 0.01 | - | - | - | - | 0.03 |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.01 | 0.03 | 0.07 | 0.38 | 1.12 | 1.06 | 0.70 | 0.32 | 0.09 | 0.05 | 0.01 | - | 3.83 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 1.17%.

The maximum wind gust speed (61-65 knots) corresponds to Violent storm and Hurricane according to “Beaufort wind force scale” (frequency of occurrence 0.01%).

The directions of maximum wind gusts are 310º.

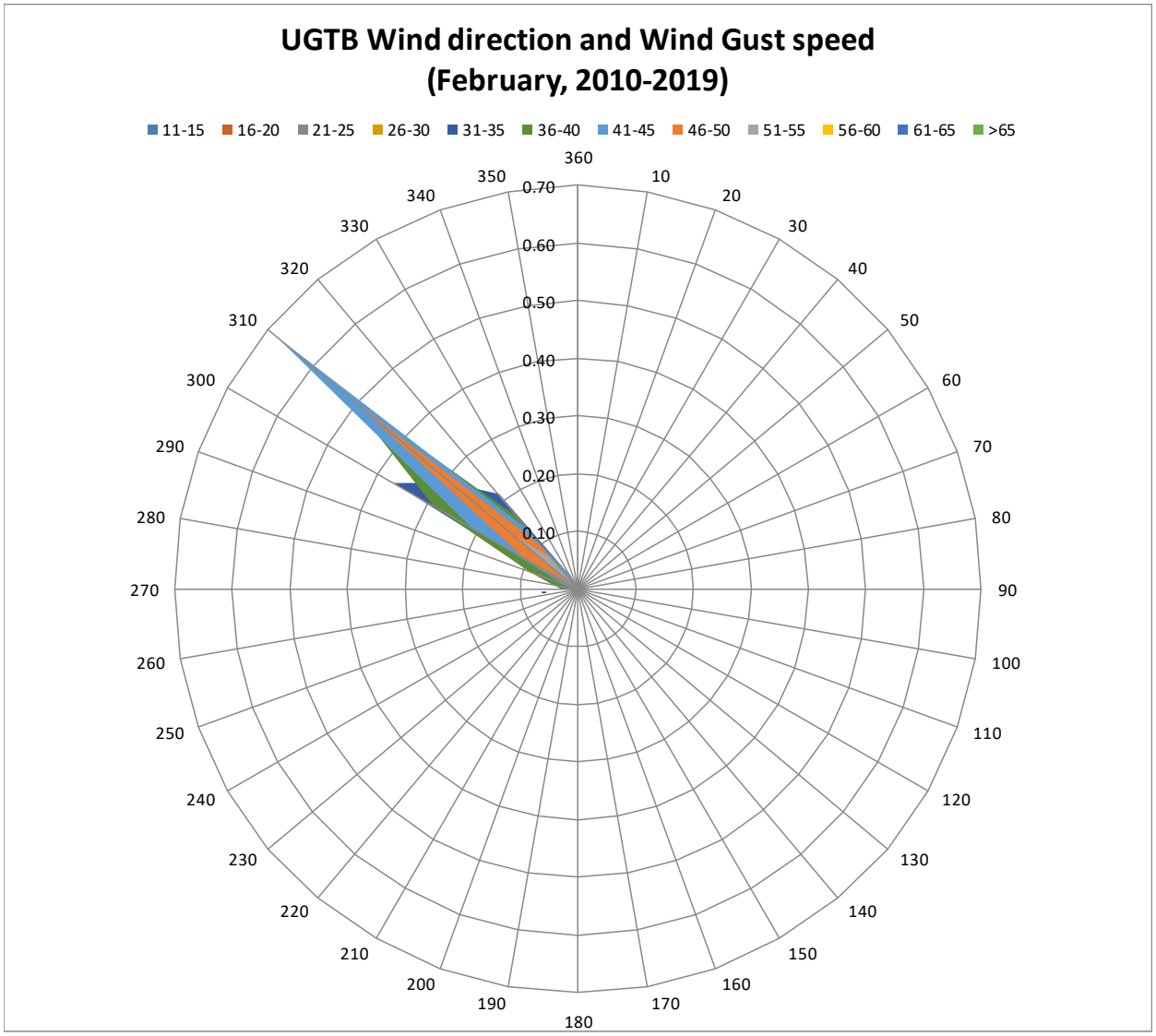
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | - | - | - | - | 0.01 | - | 0.01 | 0.01 | - | 0.02 |
| 270 | - | - | - | 0.01 | - | 0.03 | 0.01 | 0.01 | 0.01 | - | 0.02 | - | 0.10 |
| 280 | - | - | - | - | 0.03 | 0.04 | 0.01 | 0.01 | - | 0.01 | 0.02 | - | 0.13 |
| 290 | - | - | 0.01 | 0.08 | 0.07 | 0.09 | 0.03 | 0.01 | 0.01 | 0.01 | - | - | 0.31 |
| 300 | - | - | 0.09 | 0.13 | 0.37 | 0.29 | 0.21 | 0.11 | 0.01 | - | - | - | 1.21 |
| 310 | - | - | 0.01 | 0.15 | 0.29 | 0.52 | 0.68 | 0.52 | 0.15 | 0.02 | - | - | 2.33 |
| 320 | - | - | 0.01 | 0.03 | 0.21 | 0.17 | 0.13 | 0.10 | 0.07 | - | 0.01 | - | 0.72 |
| 330 | - | - | - | - | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | - | 0.01 | - | 0.10 |
| 340 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.01 | 0.11 | 0.41 | 0.99 | 1.16 | 1.12 | 0.77 | 0.26 | 0.04 | 0.07 | - | 4.94 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 2.26%.

The maximum wind gust speed (61-65 knots) corresponds to Violent storm and Hurricane according to “Beaufort wind force scale” (frequency of occurrence 0.07%).

The directions of maximum wind gusts are 260º, 270º, 280º, 320º and 330º.

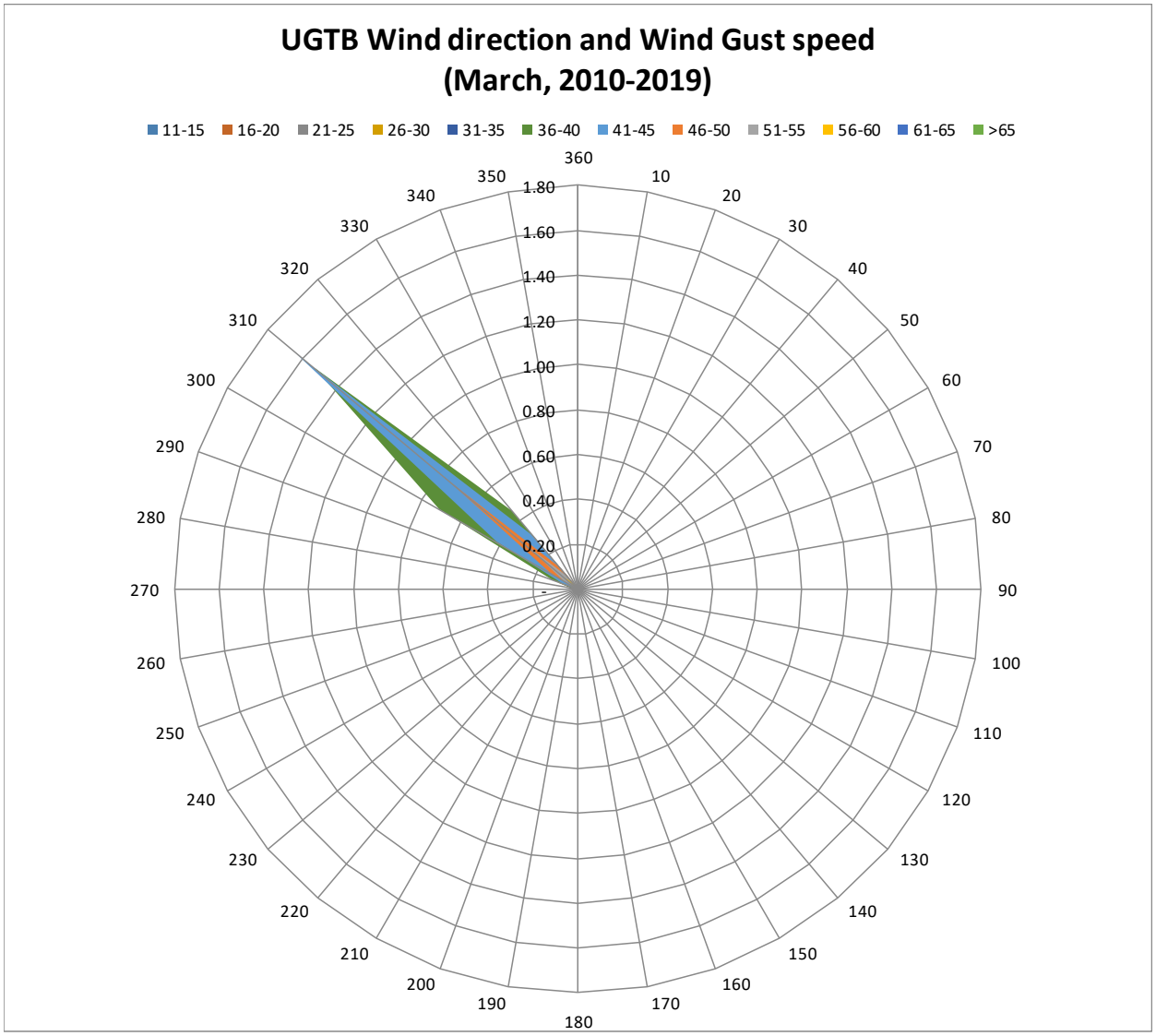
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 240 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 270 | - | - | - | 0.01 | 0.01 | 0.01 | - | - | - | - | - | - | 0.03 |
| 280 | - | - | - | 0.02 | 0.02 | 0.02 | 0.01 | - | - | - | - | - | 0.07 |
| 290 | - | - | 0.02 | 0.09 | 0.11 | 0.13 | 0.07 | 0.01 | 0.01 | - | - | - | 0.44 |
| 300 | - | - | 0.06 | 0.20 | 0.57 | 0.71 | 0.42 | 0.15 | 0.07 | 0.01 | - | - | 2.18 |
| 310 | - | - | 0.04 | 0.25 | 0.68 | 1.53 | 1.63 | 0.76 | 0.29 | 0.09 | 0.04 | - | 5.31 |
| 320 | - | - | 0.01 | 0.03 | 0.23 | 0.46 | 0.32 | 0.12 | 0.07 | 0.05 | - | - | 1.29 |
| 330 | - | - | 0.01 | 0.01 | 0.01 | 0.01 | 0.03 | - | - | - | - | - | 0.07 |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | - | 0.15 | 0.62 | 1.64 | 2.86 | 2.48 | 1.03 | 0.43 | 0.15 | 0.04 | - | 9.40 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 4.13%.

The maximum wind gust speed (61-65 knots) corresponds to Violent storm and Hurricane according to “Beaufort wind force scale” (frequency of occurrence 0.04%).

The direction of maximum wind gusts is 310º.

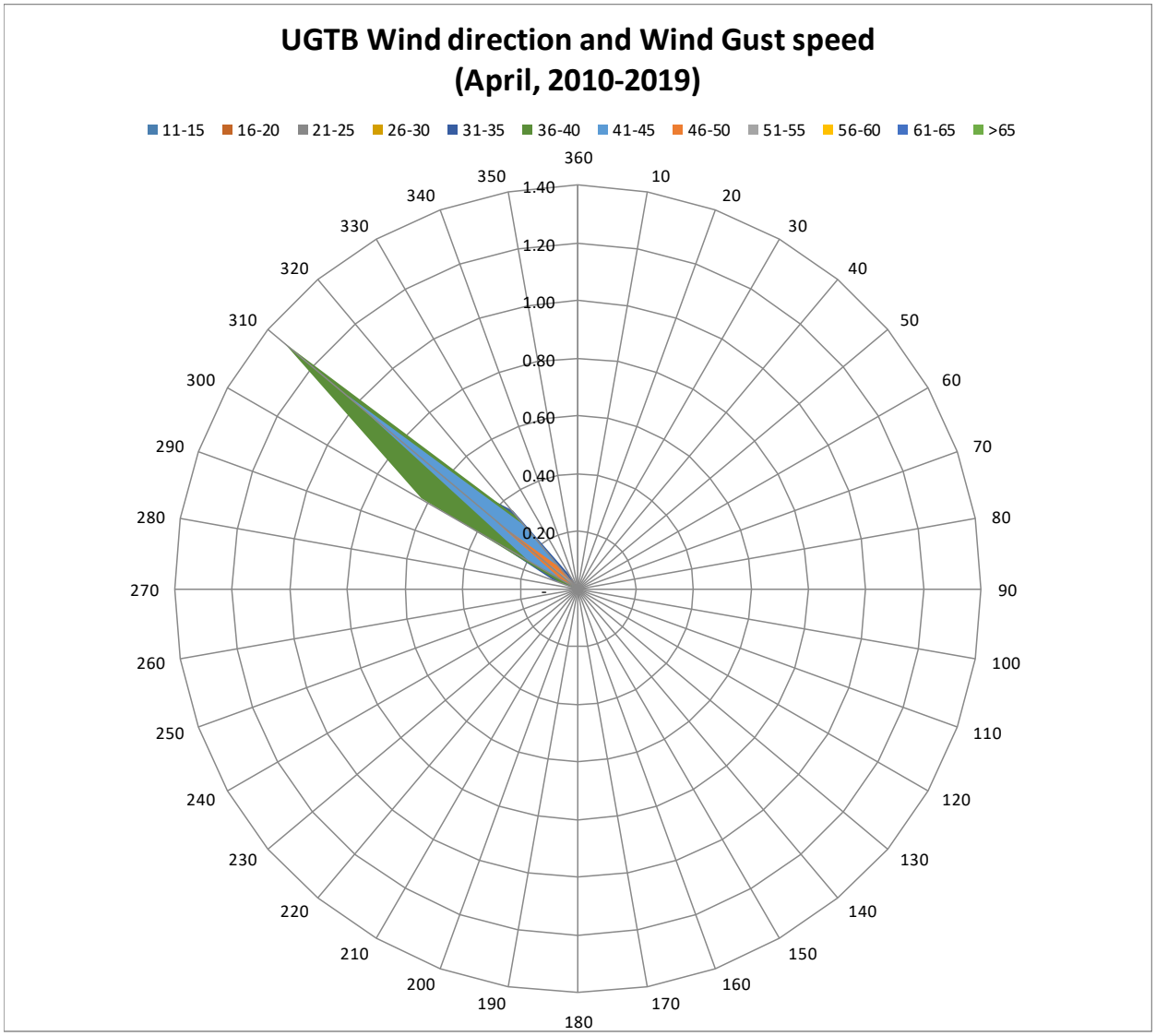
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 80 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 150 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 270 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 280 | - | - | - | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 290 | - | - | - | 0.03 | 0.09 | 0.07 | - | - | - | - | - | - | 0.19 |
| 300 | - | - | 0.05 | 0.09 | 0.39 | 0.63 | 0.20 | 0.07 | 0.01 | - | - | - | 1.44 |
| 310 | - | - | 0.03 | 0.09 | 0.62 | 1.33 | 1.04 | 0.37 | 0.22 | 0.06 | 0.01 | - | 3.77 |
| 320 | - | 0.01 | 0.03 | 0.10 | 0.35 | 0.33 | 0.28 | 0.10 | 0.03 | 0.01 | - | - | 1.23 |
| 330 | - | - | 0.01 | - | 0.05 | 0.01 | 0.01 | 0.01 | - | - | - | - | 0.09 |
| 340 | - | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | 0.02 |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.02 | 0.14 | 0.34 | 1.51 | 2.39 | 1.53 | 0.54 | 0.27 | 0.06 | 0.01 | - | 6.81 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 2.41%.

The maximum wind gust speed (61-65 knots) corresponds to Violent storm or Hurricane according to “Beaufort wind force scale” (frequency of occurrence 0.01%).

The directions of maximum wind gusts are 310º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

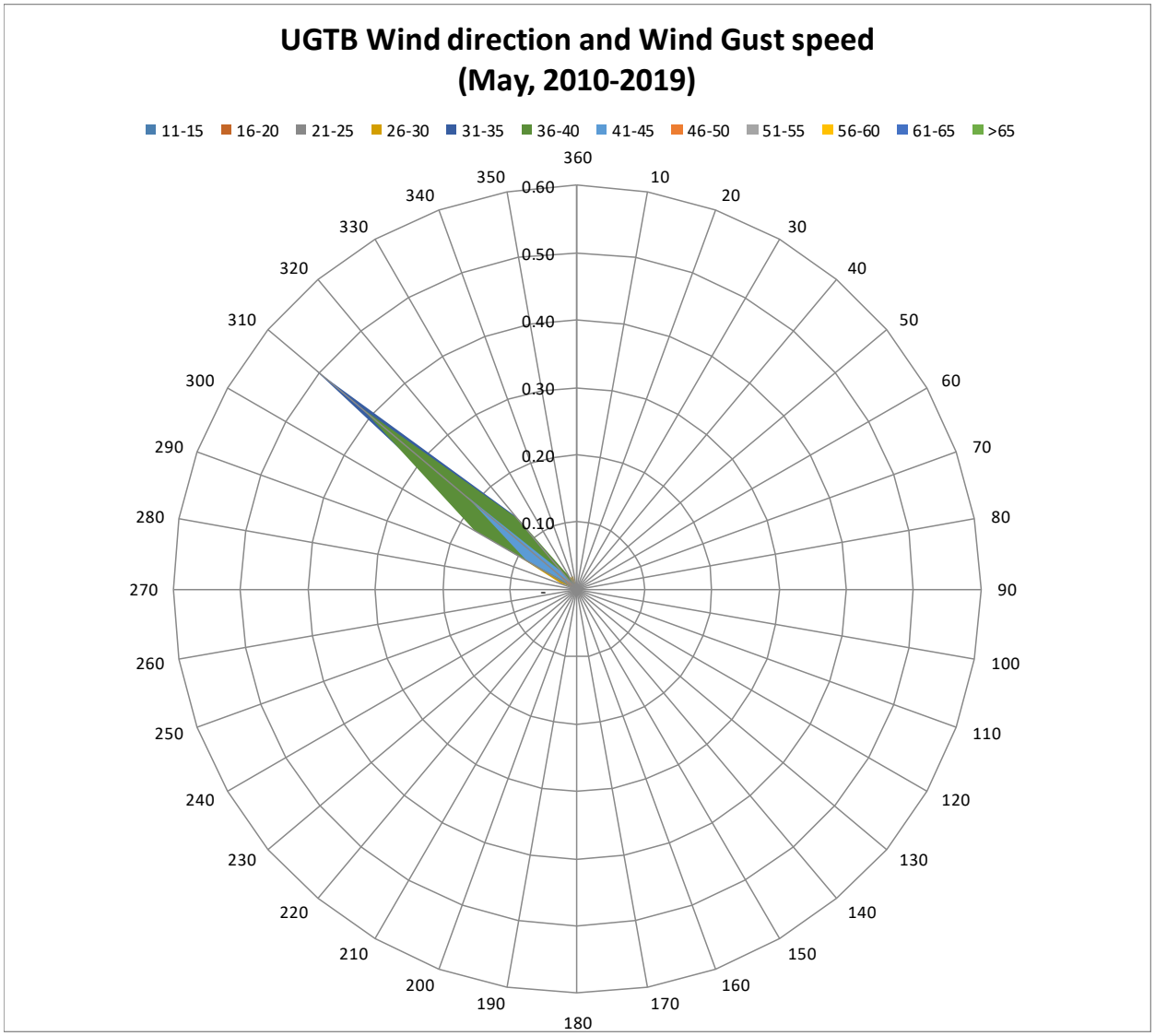
AERODROME: UGTB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 30 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | 0.01 | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 80 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 90 | 0.01 | - | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 100 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 110 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 120 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 130 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 140 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 150 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 230 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 240 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 270 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | 0.01 | 0.03 | - | 0.01 | - | - | - | - | - | - | 0.05 |
| 300 | - | 0.01 | 0.04 | 0.09 | 0.12 | 0.18 | 0.09 | 0.01 | - | - | - | - | 0.55 |
| 310 | - | 0.01 | 0.04 | 0.13 | 0.51 | 0.42 | 0.22 | 0.05 | - | - | - | - | 1.37 |
| 320 | - | 0.01 | 0.02 | 0.10 | 0.14 | 0.13 | 0.03 | 0.01 | 0.01 | - | - | - | 0.45 |
| 330 | - | - | 0.01 | 0.02 | - | 0.02 | - | - | - | - | - | - | 0.05 |
| 340 | - | - | - | 0.02 | - | - | - | - | - | - | - | - | 0.02 |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.01 | 0.06 | 0.18 | 0.43 | 0.77 | 0.76 | 0.34 | 0.07 | 0.01 | - | - | - | 2.63 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.42%.

The maximum wind gust speed (51-55 knots) corresponds to Storm according to “Beaufort wind force scale” (frequency of occurrence 0.01%).

The direction of maximum wind gusts is 320º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

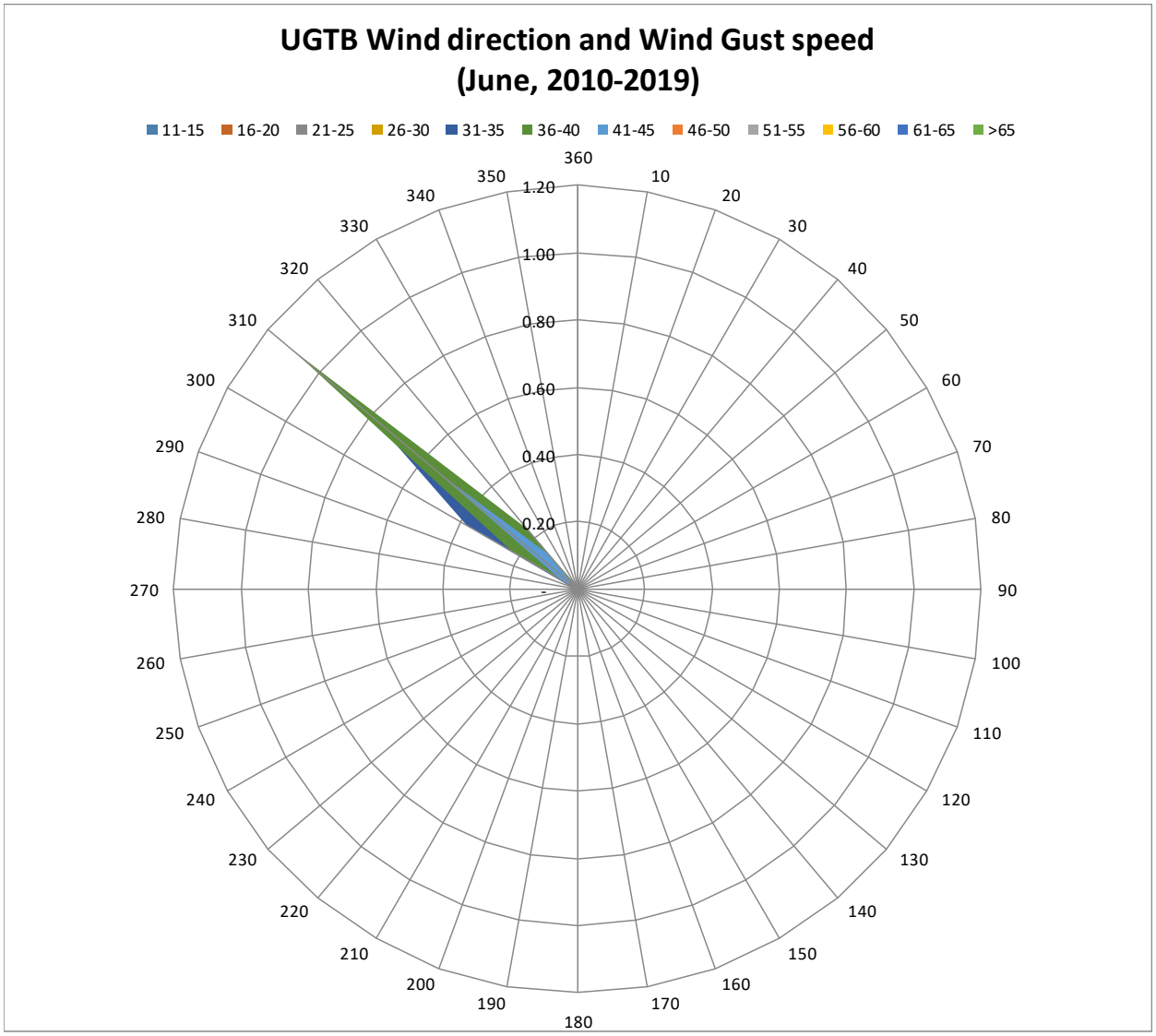
AERODROME: UGTB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 60 | - | - | - | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 70 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 100 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 110 | - | 0.01 | 0.02 | 0.01 | - | - | - | - | - | - | - | - | 0.04 |
| 120 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 130 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | 0.01 | - | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 190 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 200 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 260 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 270 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 280 | - | - | - | 0.01 | - | 0.01 | 0.01 | - | - | - | - | - | 0.02 |
| 290 | - | - | - | 0.01 | 0.02 | 0.01 | - | - | - | - | - | - | 0.04 |
| 300 | - | - | 0.05 | 0.21 | 0.38 | 0.23 | 0.05 | - | - | - | - | - | 0.92 |
| 310 | 0.01 | - | 0.01 | 0.18 | 0.80 | 1.11 | 0.55 | 0.07 | - | - | - | - | 2.72 |
| 320 | - | - | 0.02 | 0.05 | 0.18 | 0.23 | 0.14 | 0.01 | - | - | - | - | 0.63 |
| 330 | - | - | - | 0.01 | 0.01 | 0.02 | - | - | - | - | - | - | 0.03 |
| 340 | - | - | 0.01 | 0.01 | 0.01 | - | - | - | - | - | - | - | 0.03 |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.01 | 0.02 | 0.14 | 0.52 | 1.41 | 1.61 | 0.74 | 0.08 | - | - | - | - | 4.54 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.82%.

The maximum wind gust speed (46-50 knots) corresponds to Strong gale or Storm according to “Beaufort wind force scale” (frequency of occurrence 0.08%).

The directions of maximum wind gusts are 310º and 320º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

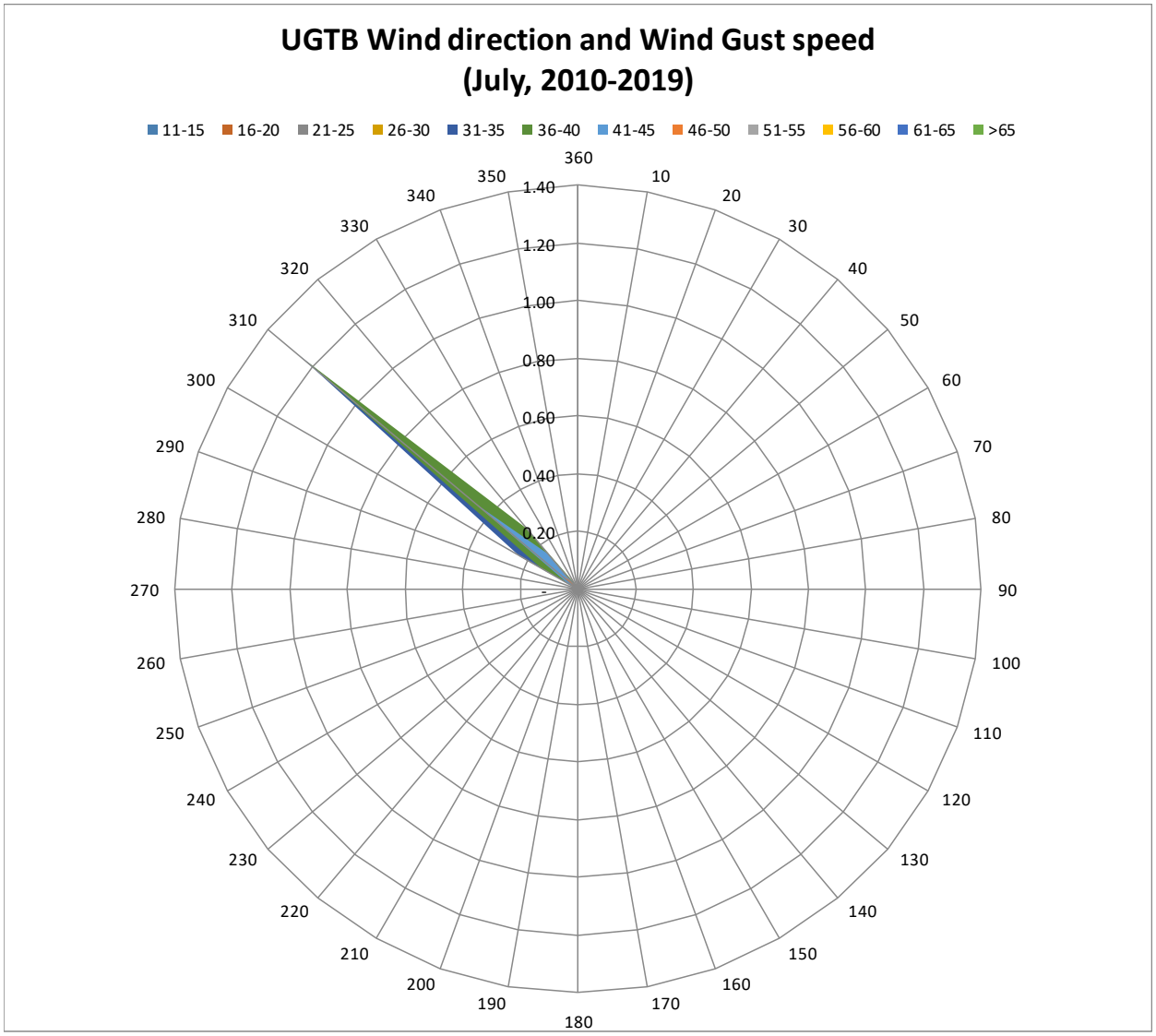
AERODROME: UGTB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 30 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 80 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 90 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 100 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 110 | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | - | 0.03 |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | 0.03 | 0.01 | - | - | - | - | - | - | - | - | - | 0.03 |
| 140 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 150 | 0.01 | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 160 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 170 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 260 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 270 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | 0.01 | 0.01 | - | 0.01 | - | - | - | - | - | 0.03 |
| 300 | - | - | 0.01 | 0.09 | 0.23 | 0.14 | 0.04 | 0.01 | - | - | - | - | 0.52 |
| 310 | - | 0.01 | 0.03 | 0.27 | 1.26 | 1.23 | 0.46 | 0.07 | 0.01 | - | - | - | 3.33 |
| 320 | - | 0.01 | 0.05 | 0.08 | 0.18 | 0.28 | 0.16 | 0.03 | 0.01 | - | - | - | 0.80 |
| 330 | - | 0.01 | - | 0.03 | 0.02 | 0.03 | - | - | - | - | - | - | 0.08 |
| 340 | - | 0.01 | - | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.01 | 0.11 | 0.15 | 0.48 | 1.71 | 1.67 | 0.67 | 0.11 | 0.03 | - | - | - | 4.95 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.81%.

The maximum wind gust speed (51-55 knots) corresponds to Storm according to “Beaufort wind force scale” (frequency of occurrence 0.03%).

The directions of maximum wind gusts are 310º and 320º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

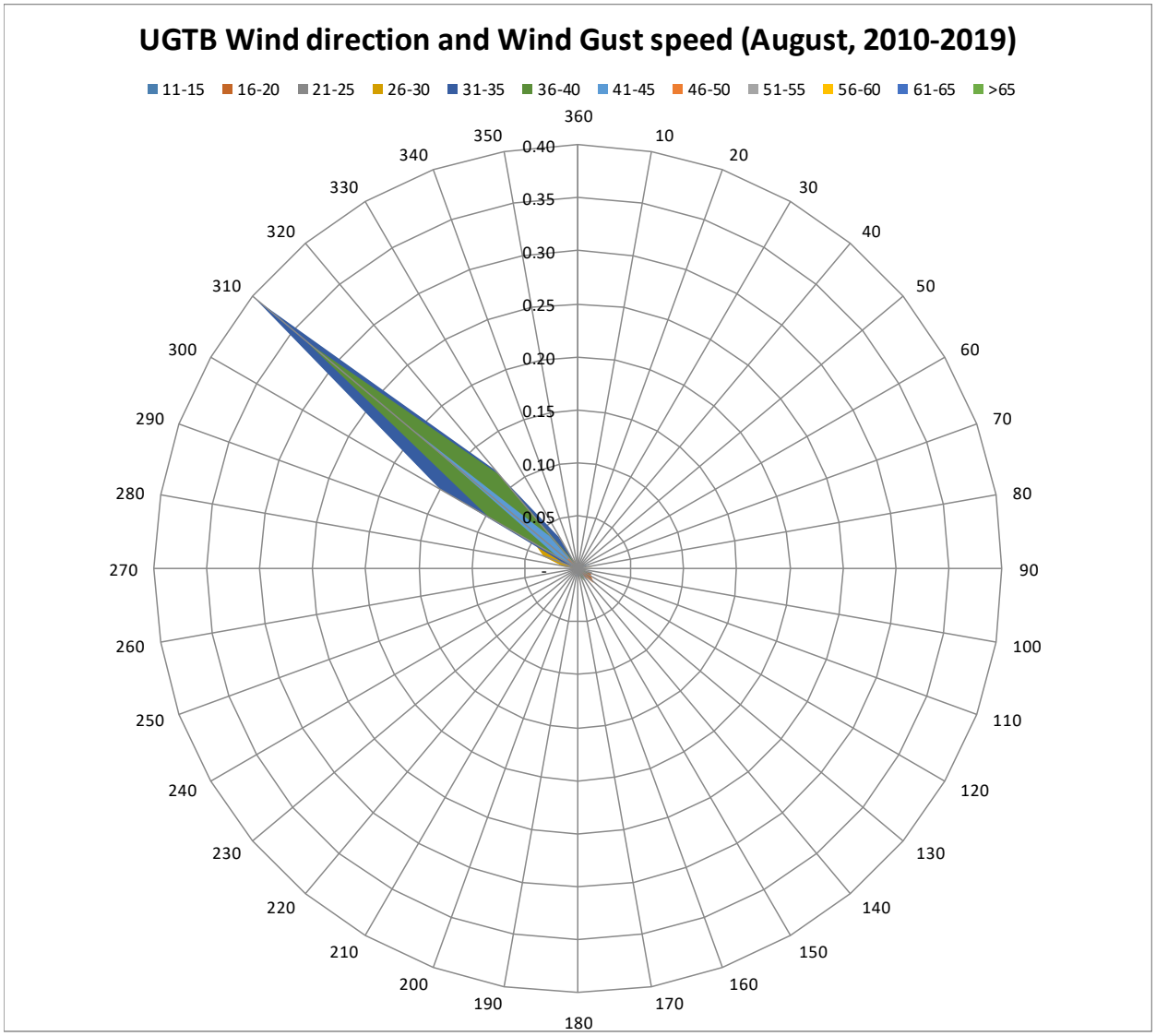
AERODROME: UGTB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | 0.01 | - | 0.01 | 0.01 | - | - | - | - | 0.02 |
| 50 | - | 0.01 | - | - | - | - | 0.01 | 0.01 | - | - | - | - | 0.02 |
| 60 | - | - | - | 0.01 | - | 0.01 | 0.01 | - | - | - | - | - | 0.02 |
| 70 | - | - | - | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 80 | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | 0.02 |
| 90 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 100 | - | - | 0.01 | 0.01 | - | - | 0.01 | - | - | - | - | - | 0.03 |
| 110 | - | 0.01 | 0.01 | - | - | 0.01 | - | - | - | - | - | - | 0.03 |
| 120 | - | 0.01 | 0.01 | - | - | 0.01 | - | - | - | - | - | - | 0.03 |
| 130 | - | 0.02 | - | 0.01 | - | - | - | - | - | - | - | - | 0.03 |
| 140 | - | 0.01 | 0.01 | - | - | 0.01 | 0.01 | - | - | - | - | - | 0.04 |
| 150 | - | - | 0.01 | - | - | 0.01 | - | - | - | - | - | - | 0.02 |
| 160 | - | - | - | - | 0.01 | 0.01 | 0.01 | - | - | - | - | - | 0.02 |
| 170 | - | 0.01 | - | - | - | - | 0.01 | - | - | - | - | - | 0.02 |
| 180 | - | - | 0.01 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 190 | - | - | 0.01 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 200 | - | - | - | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | 0.01 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 270 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 280 | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | 0.02 |
| 290 | - | 0.01 | 0.01 | 0.03 | 0.01 | - | - | - | - | - | - | - | 0.06 |
| 300 | - | - | 0.01 | 0.05 | 0.15 | 0.10 | 0.02 | - | - | - | - | - | 0.33 |
| 310 | - | 0.01 | 0.03 | 0.13 | 0.40 | 0.33 | 0.20 | 0.01 | - | - | - | - | 1.12 |
| 320 | - | 0.01 | 0.02 | 0.05 | 0.12 | 0.12 | 0.04 | 0.01 | - | - | - | - | 0.37 |
| 330 | - | - | 0.01 | 0.01 | 0.03 | 0.01 | - | - | - | - | - | - | 0.07 |
| 340 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 350 | - | - | - | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| TOTAL | - | 0.10 | 0.18 | 0.33 | 0.76 | 0.62 | 0.35 | 0.04 | - | - | - | - | 2.39 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.39%.

The maximum wind gust speed (46-50 knots) corresponds to Strong gale or Storm according to “Beaufort wind force scale” (frequency of occurrence 0.04%).

The directions of maximum wind gusts are 040º, 050º, 310º and 320º.

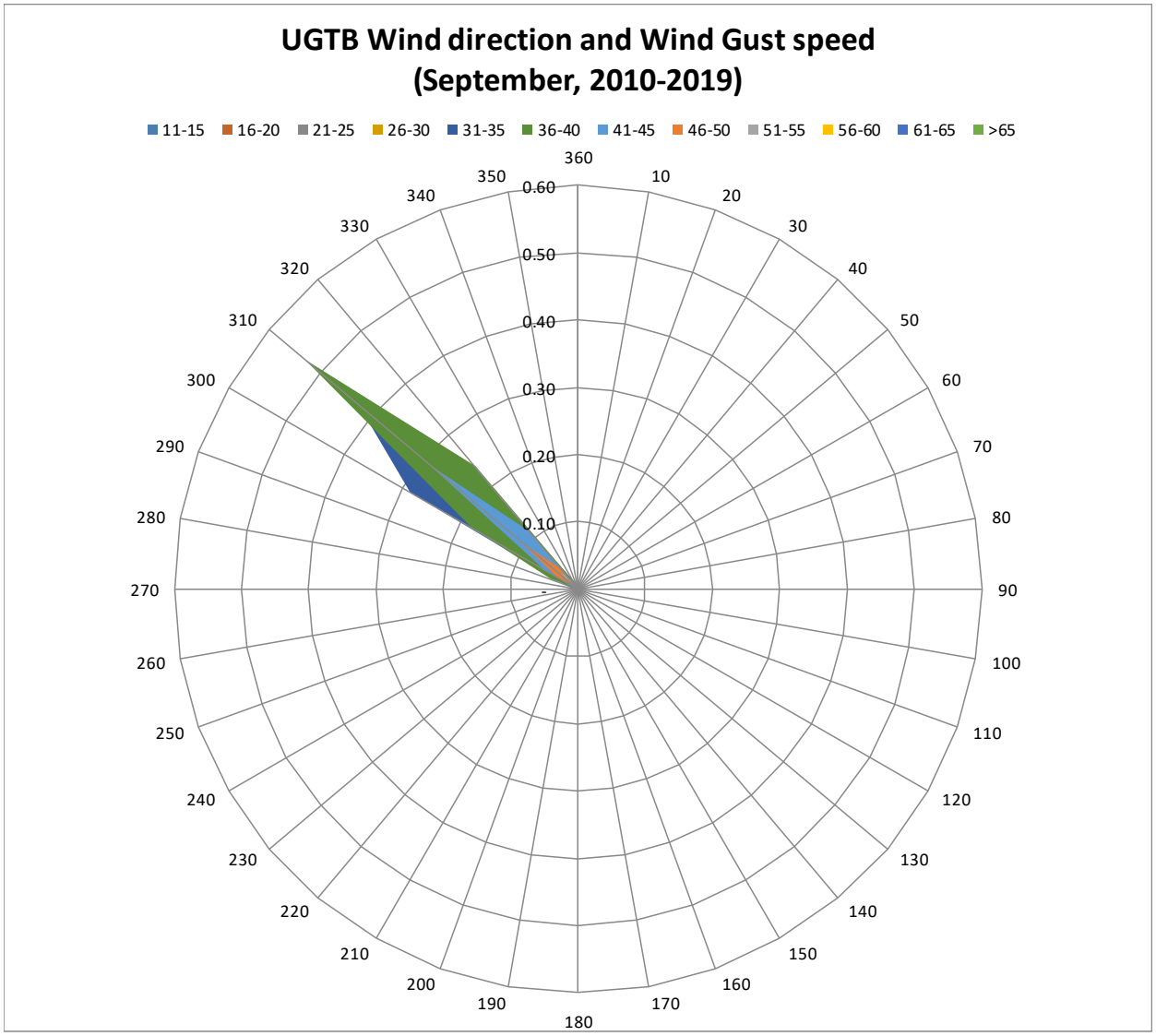
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2018

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | 0.02 | - | - | - | - | - | - | - | - | - | - | 0.02 |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 270 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 290 | - | - | - | - | 0.02 | 0.04 | - | - | - | - | - | - | 0.06 |
| 300 | - | 0.01 | 0.01 | 0.12 | 0.29 | 0.18 | 0.06 | 0.03 | 0.01 | - | - | - | 0.70 |
| 310 | - | - | 0.02 | 0.15 | 0.43 | 0.53 | 0.29 | 0.11 | 0.03 | 0.01 | - | - | 1.56 |
| 320 | - | - | 0.03 | 0.08 | 0.11 | 0.24 | 0.11 | 0.03 | 0.03 | - | - | - | 0.64 |
| 330 | - | - | - | 0.01 | 0.01 | 0.02 | - | - | - | - | - | - | 0.05 |
| 340 | - | 0.01 | - | 0.01 | - | - | - | - | - | - | - | - | 0.02 |
| 350 | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| TOTAL | - | 0.06 | 0.07 | 0.38 | 0.87 | 1.02 | 0.45 | 0.18 | 0.07 | 0.01 | - | - | 3.10 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.71%.

The maximum wind gust speed (56-60 knots) corresponds to Violent Storm according to “Beaufort wind force scale” (frequency of occurrence 0.01%).

The direction of maximum wind gusts is 310º.

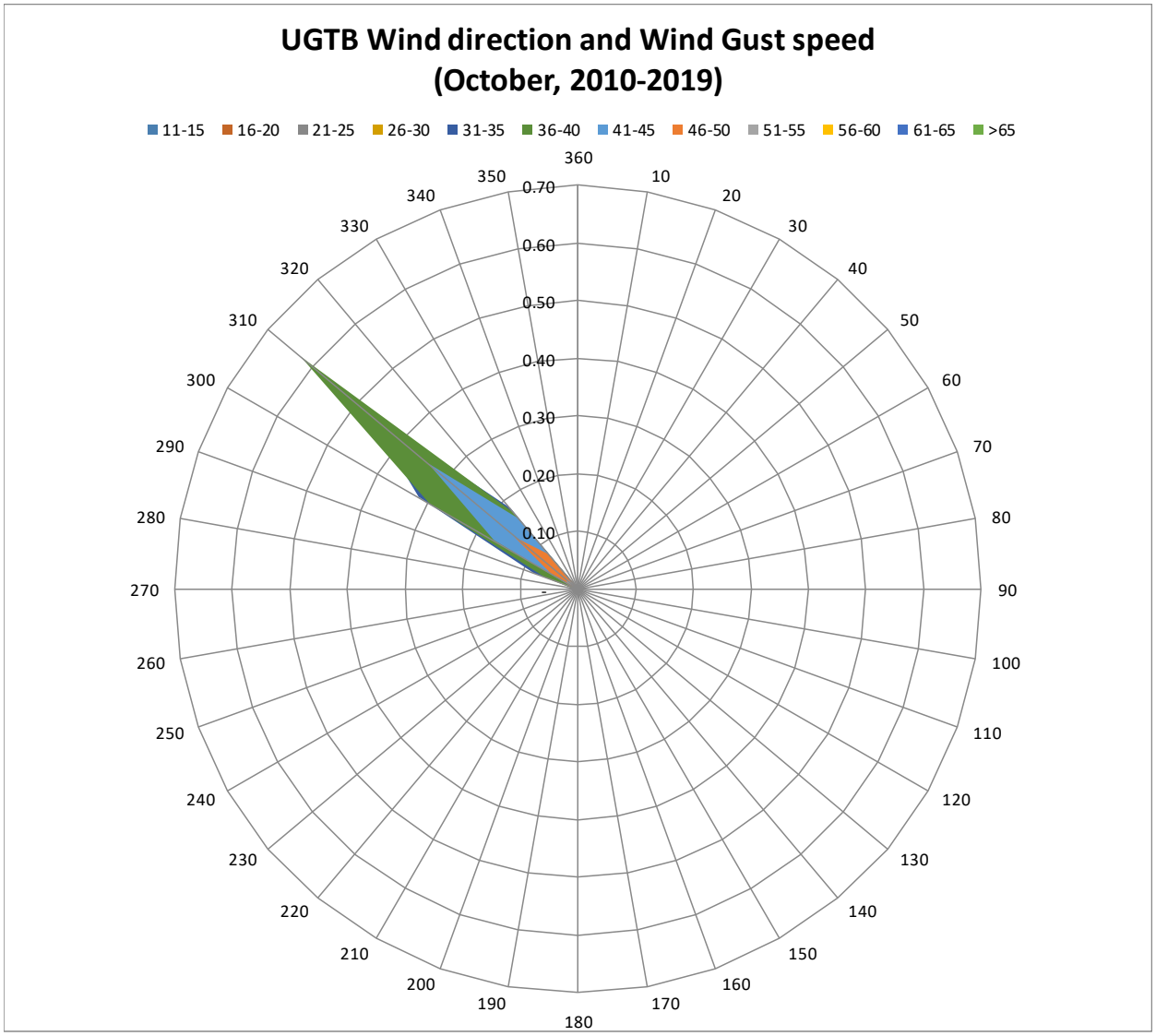
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 270 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 280 | - | 0.01 | - | 0.01 | - | 0.01 | - | - | - | - | - | - | 0.03 |
| 290 | - | - | 0.01 | 0.05 | 0.08 | 0.06 | 0.01 | 0.01 | - | - | - | - | 0.22 |
| 300 | - | - | 0.01 | 0.10 | 0.32 | 0.30 | 0.17 | 0.05 | 0.02 | - | - | - | 0.97 |
| 310 | - | - | 0.07 | 0.20 | 0.47 | 0.63 | 0.34 | 0.14 | 0.03 | 0.01 | - | - | 1.88 |
| 320 | - | - | 0.02 | 0.05 | 0.18 | 0.18 | 0.16 | 0.08 | 0.01 | - | - | - | 0.69 |
| 330 | - | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.01 | 0.10 | 0.42 | 1.06 | 1.18 | 0.68 | 0.29 | 0.06 | 0.01 | - | - | 3.80 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 1.04%.

The maximum wind gust speed (56-60 knots) corresponds to Violent Storm according to “Beaufort wind force scale” (frequency of occurrence 0.01%).

The direction of maximum wind gusts is 310º.

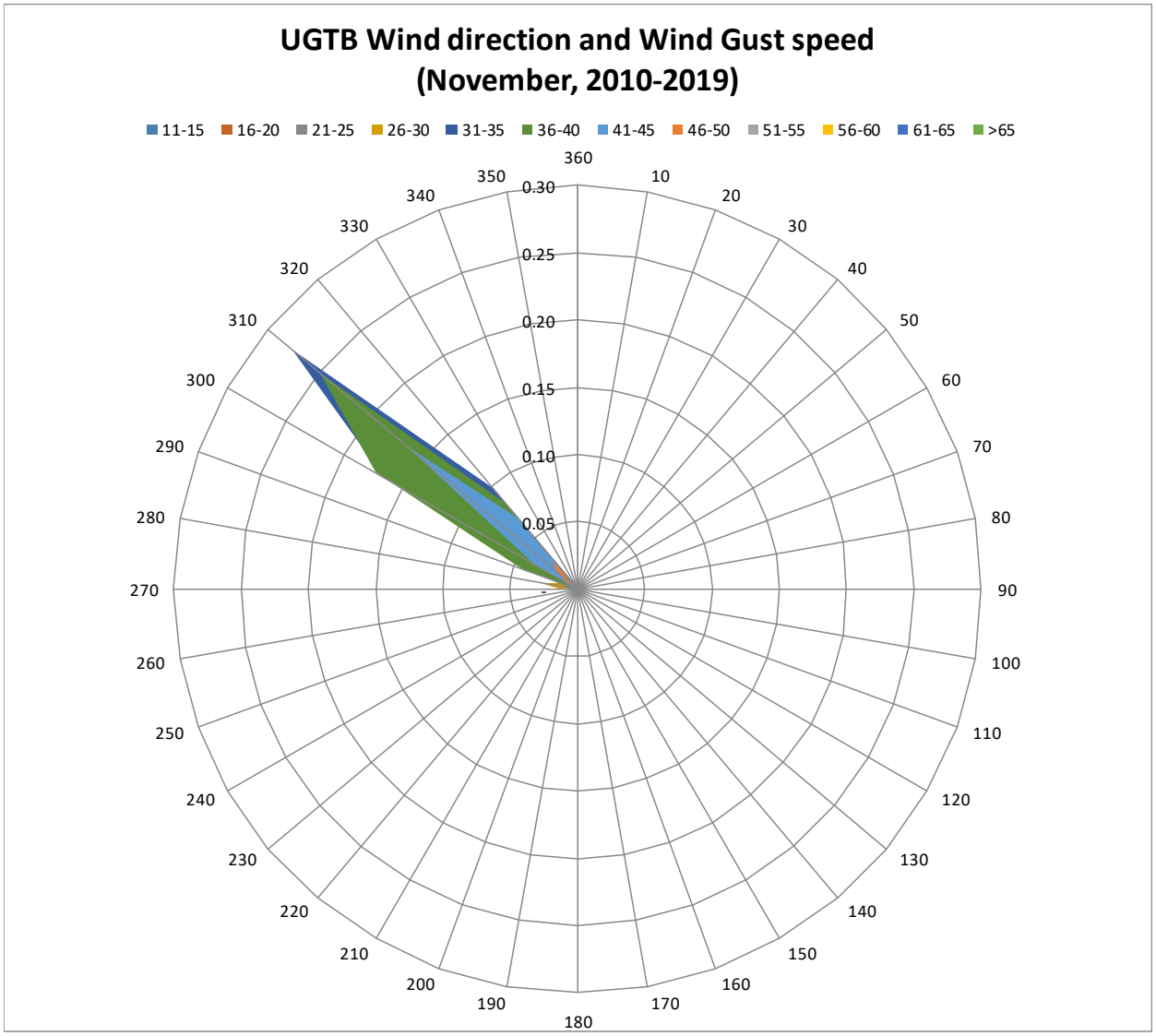
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 270 | - | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | 0.02 |
| 280 | - | - | - | 0.03 | 0.01 | - | - | - | - | - | - | - | 0.03 |
| 290 | - | 0.01 | 0.01 | 0.01 | 0.03 | 0.04 | - | - | - | - | - | - | 0.10 |
| 300 | - | - | 0.01 | 0.13 | 0.17 | 0.17 | 0.03 | 0.01 | - | - | - | - | 0.52 |
| 310 | - | - | 0.01 | 0.08 | 0.28 | 0.25 | 0.17 | 0.02 | - | 0.01 | - | - | 0.80 |
| 320 | - | - | 0.01 | 0.05 | 0.10 | 0.08 | 0.07 | 0.03 | 0.01 | - | - | - | 0.35 |
| 330 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.01 | 0.04 | 0.32 | 0.60 | 0.55 | 0.27 | 0.06 | 0.01 | 0.01 | - | - | 1.86 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.35%.

The maximum wind gust speed (56-60 knots) corresponds to Violent Storm to “Beaufort wind force scale” (frequency of occurrence 0.01%).

The direction of maximum wind gusts is 310º.

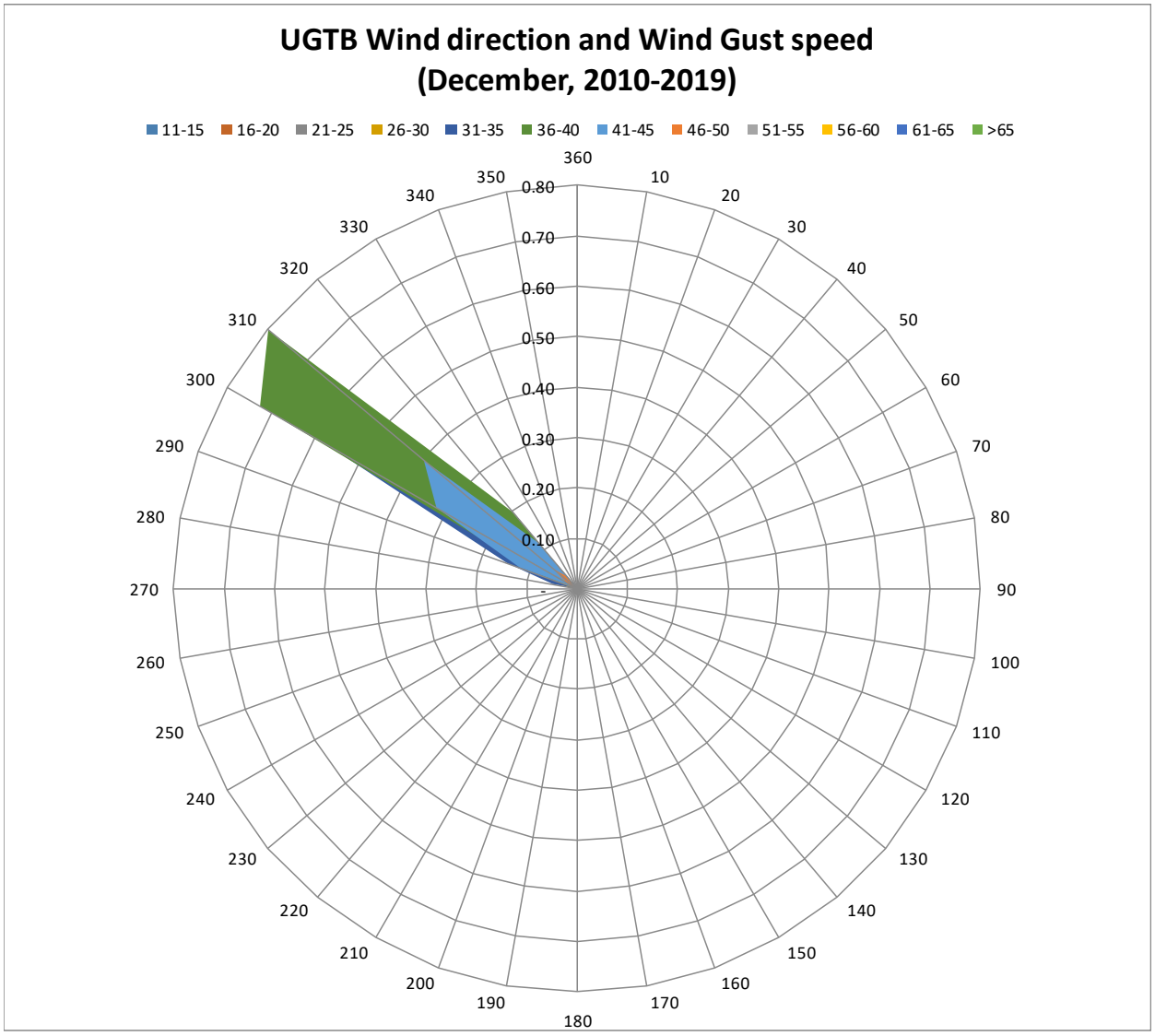
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 270 | - | 0.01 | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 280 | - | - | 0.02 | 0.02 | 0.05 | 0.01 | - | - | - | - | - | - | 0.09 |
| 290 | - | 0.01 | 0.01 | 0.07 | 0.15 | 0.07 | 0.12 | 0.01 | - | - | - | - | 0.42 |
| 300 | - | - | 0.01 | 0.12 | 0.58 | 0.73 | 0.32 | 0.02 | - | - | - | - | 1.79 |
| 310 | - | - | 0.01 | 0.19 | 0.60 | 0.80 | 0.40 | 0.06 | 0.01 | - | - | - | 2.07 |
| 320 | - | - | 0.01 | 0.07 | 0.11 | 0.19 | 0.12 | 0.03 | - | - | - | - | 0.54 |
| 330 | - | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.01 | 0.07 | 0.49 | 1.50 | 1.79 | 0.96 | 0.12 | 0.01 | - | - | - | 4.96 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 1.09%.

The maximum wind gust speed (51-55 knots) corresponds to Storm according to “Beaufort wind force scale” (frequency of occurrence 0.01%).

The direction of maximum wind gusts is 310º.

## AERONAUTICAL CLIMATOLOGY

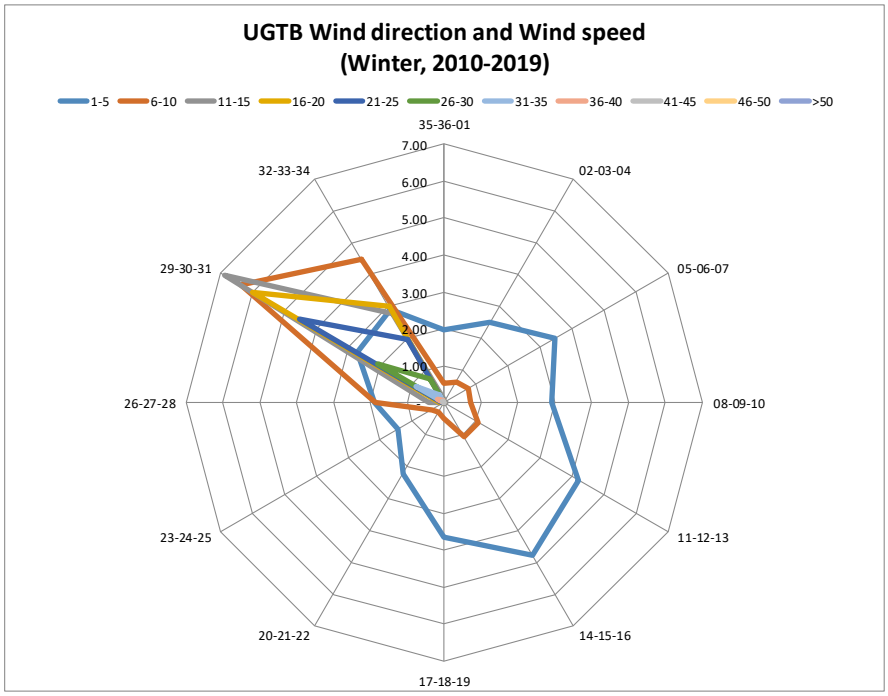
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB SEASON: WINTER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 43296 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 9.229 |
| VARIABLE | 7.061 | 0.044 | - | - | - | - | - | - | - | - | - | 7.105 |
| 35-36-01 | 1.970 | 0.514 | 0.083 | 0.016 | 0.005 | - | - | - | - | - | - | 2.587 |
| 02-03-04 | 2.495 | 0.650 | 0.009 | - | - | - | - | - | - | - | - | 3.154 |
| 05-06-07 | 3.483 | 0.758 | 0.023 | 0.002 | - | - | - | - | - | - | - | 4.267 |
| 08-09-10 | 2.928 | 0.703 | 0.044 | - | - | - | - | - | - | - | - | 3.675 |
| 11-12-13 | 4.193 | 1.071 | 0.037 | - | - | - | - | - | - | - | - | 5.301 |
| 14-15-16 | 4.769 | 1.081 | 0.037 | - | - | - | - | - | - | - | - | 5.886 |
| 17-18-19 | 3.638 | 0.431 | 0.002 | - | - | - | - | - | - | - | - | 4.071 |
| 20-21-22 | 2.237 | 0.286 | 0.005 | 0.002 | - | - | - | - | - | - | - | 2.530 |
| 23-24-25 | 1.463 | 0.373 | 0.018 | 0.005 | 0.002 | - | - | - | - | - | - | 1.862 |
| 26-27-28 | 1.898 | 1.875 | 0.410 | 0.120 | 0.055 | 0.014 | 0.009 | 0.009 | 0.002 | 0.009 | 0.012 | 4.414 |
| 29-30-31 | 2.716 | 6.368 | 6.875 | 5.979 | 4.523 | 2.073 | 0.885 | 0.200 | 0.046 | 0.005 | - | 29.669 |
| 32-33-34 | 2.898 | 4.486 | 2.776 | 3.000 | 1.988 | 0.756 | 0.237 | 0.081 | 0.016 | 0.009 | 0.002 | 16.249 |
| TOTAL | 41.751 | 18.638 | 10.319 | 9.123 | 6.573 | 2.843 | 1.131 | 0.290 | 0.065 | 0.023 | 0.014 | 100 |




**CALM**
9.23%

**VARIABLE**
7.11%

The prevailing wind directions of 290º-340º frequency of occurrence is 45.92%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 60.39%).

The maximum wind of >50 knots is observed within the 260º-280º and 320º-340º sectors (frequency of occurrence 0.01%).

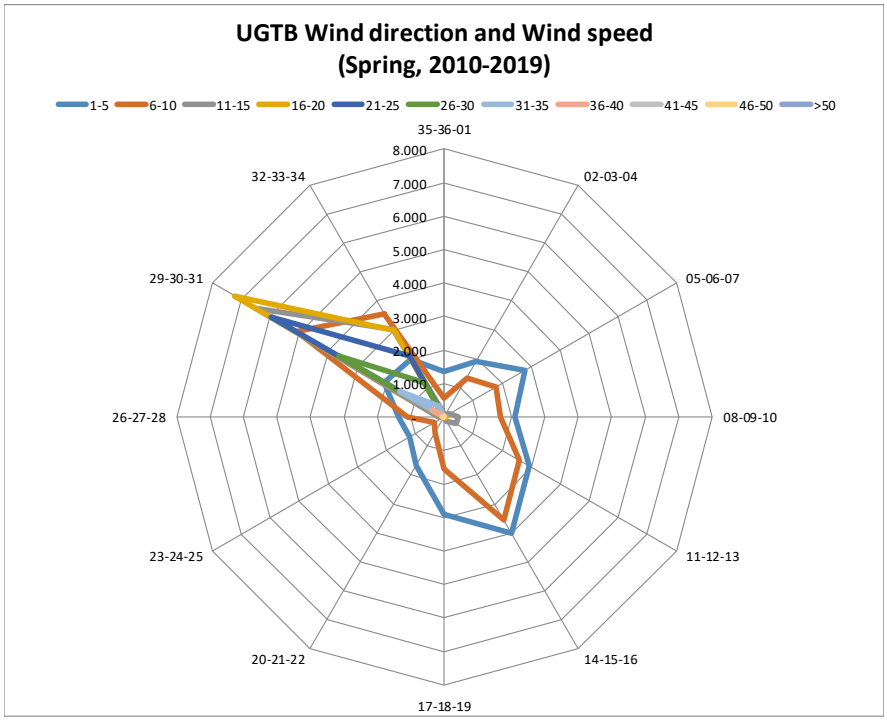
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB SEASON: SPRING PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 44160 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 5.01 |
| VARIABLE | 7.630 | 0.343 | 0.007 | 0.002 | - | - | - | - | - | - | - | 7.98 |
| 35-36-01 | 1.362 | 0.572 | 0.104 | 0.016 | - | 0.002 | - | - | - | - | - | 2.06 |
| 02-03-04 | 1.930 | 1.342 | 0.066 | 0.016 | - | - | 0.002 | - | - | - | - | 3.36 |
| 05-06-07 | 2.770 | 1.805 | 0.176 | 0.014 | 0.007 | - | - | - | - | - | - | 4.77 |
| 08-09-10 | 2.110 | 1.667 | 0.436 | 0.043 | 0.005 | - | - | - | - | - | - | 4.26 |
| 11-12-13 | 2.935 | 2.580 | 0.418 | 0.029 | - | - | - | - | - | - | - | 5.96 |
| 14-15-16 | 3.990 | 3.547 | 0.133 | 0.005 | - | - | - | - | - | - | - | 7.68 |
| 17-18-19 | 2.921 | 1.539 | 0.014 | - | - | - | - | - | - | - | - | 4.47 |
| 20-21-22 | 1.663 | 0.558 | 0.023 | 0.002 | 0.002 | - | - | - | - | - | - | 2.25 |
| 23-24-25 | 1.182 | 0.355 | 0.023 | 0.011 | - | - | - | - | - | - | - | 1.57 |
| 26-27-28 | 1.360 | 1.109 | 0.181 | 0.052 | 0.025 | 0.005 | - | - | - | - | - | 2.73 |
| 29-30-31 | 2.056 | 5.095 | 6.509 | 7.230 | 5.960 | 3.651 | 1.536 | 0.416 | 0.086 | 0.032 | - | 32.57 |
| 32-33-34 | 1.979 | 3.577 | 3.032 | 2.985 | 2.090 | 1.188 | 0.373 | 0.079 | 0.025 | - | - | 15.33 |
| TOTAL | 33.89 | 24.09 | 11.12 | 10.40 | 8.09 | 4.85 | 1.91 | 0.49 | 0.11 | 0.03 | - | 100 |




**CALM**
5.01

**VARIABLE**
7.98%

The prevailing wind directions of 290º-340º frequency of occurrence is 47.90%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 57.98%).

The maximum wind of 46-50 knots is observed within the 290º-310º sector (frequency of occurrence 0.03%).

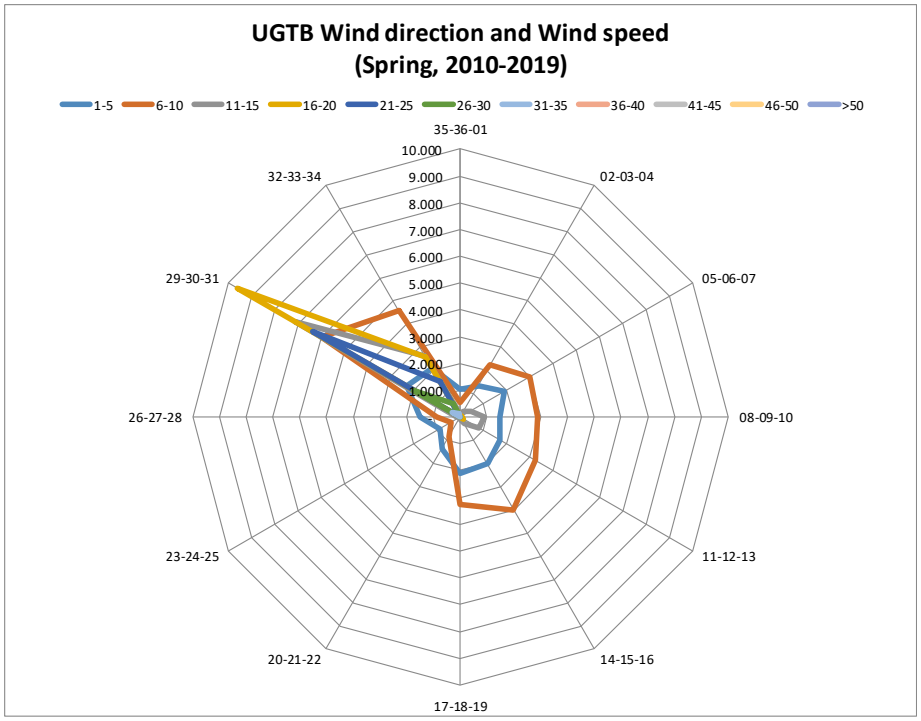
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB SEASON: SUMMER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 44160 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 2.91 |
| VARIABLE | 8.029 | 1.057 | 0.029 | 0.007 | - | 0.002 | - | - | - | - | - | 9.12 |
| 35-36-01 | 1.034 | 0.549 | 0.116 | 0.027 | 0.002 | 0.002 | - | - | - | - | - | 1.73 |
| 02-03-04 | 1.351 | 2.229 | 0.236 | 0.059 | 0.007 | 0.002 | - | - | - | - | - | 3.88 |
| 05-06-07 | 1.907 | 2.984 | 0.463 | 0.018 | 0.007 | - | - | - | - | - | - | 5.38 |
| 08-09-10 | 1.467 | 2.873 | 0.891 | 0.070 | 0.002 | - | - | - | - | - | - | 5.30 |
| 11-12-13 | 1.705 | 3.231 | 0.798 | 0.116 | - | - | - | - | - | - | - | 5.85 |
| 14-15-16 | 2.009 | 3.984 | 0.279 | 0.011 | - | - | - | - | - | - | - | 6.28 |
| 17-18-19 | 2.088 | 3.274 | 0.068 | 0.005 | - | - | - | - | - | - | - | 5.44 |
| 20-21-22 | 1.385 | 0.875 | 0.020 | 0.005 | - | - | - | - | - | - | - | 2.29 |
| 23-24-25 | 0.864 | 0.390 | 0.025 | 0.007 | 0.002 | - | - | - | - | - | - | 1.29 |
| 26-27-28 | 1.487 | 0.880 | 0.122 | 0.027 | 0.009 | 0.002 | - | - | - | - | - | 2.53 |
| 29-30-31 | 2.324 | 5.993 | 7.115 | 9.619 | 6.374 | 2.009 | 0.333 | 0.020 | - | - | - | 33.79 |
| 32-33-34 | 2.106 | 4.608 | 2.644 | 2.605 | 1.544 | 0.560 | 0.134 | 0.009 | - | - | - | 14.21 |
| TOTAL | 27.76 | 32.93 | 12.81 | 12.58 | 7.95 | 2.58 | 0.47 | 0.03 | - | - | - | 100 |




**CALM**
2.91%

**VARIABLE**
9.12%

The prevailing wind directions of 290º-340º frequency of occurrence is 48.00%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 60.69%);

The maximum wind of 36-40 knots is observed within the 290º-310º and 320º-340º sectors (frequency of occurrence 0.03%).

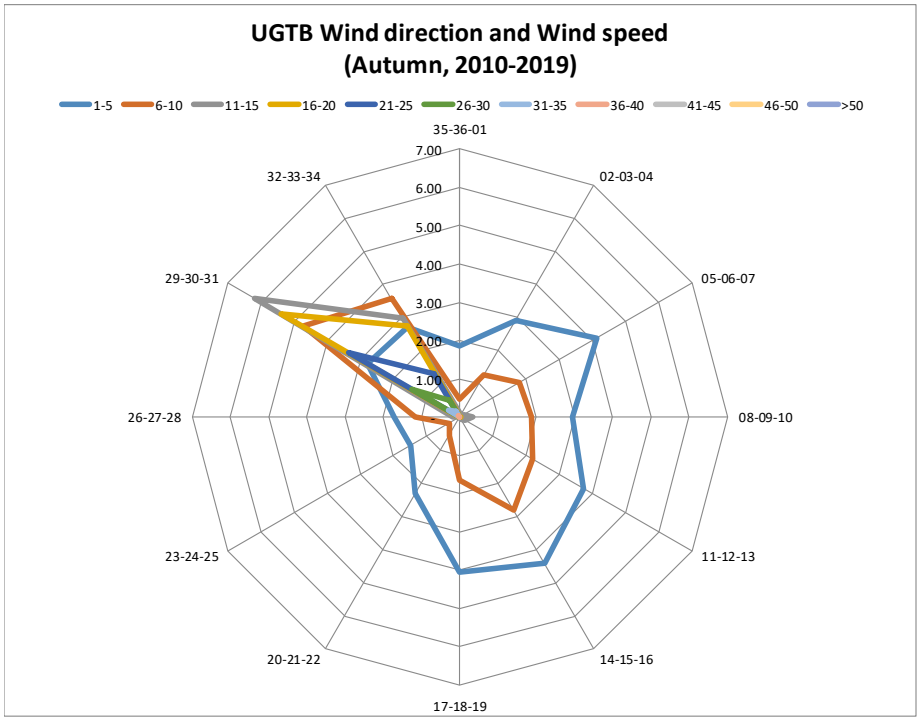
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGTB SEASON: AUTUMN PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 43680 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 7.495 |
| VARIABLE | 8.924 | 0.289 | 0.002 | - | - | - | - | - | - | - | - | 9.216 |
| 35-36-01 | 1.861 | 0.475 | 0.115 | 0.018 | - | 0.002 | - | - | - | - | - | 2.472 |
| 02-03-04 | 2.926 | 1.266 | 0.025 | 0.002 | - | - | - | - | - | - | - | 4.220 |
| 05-06-07 | 4.144 | 1.794 | 0.126 | 0.009 | - | - | - | - | - | - | - | 6.073 |
| 08-09-10 | 2.959 | 1.881 | 0.328 | 0.018 | - | - | - | - | - | - | - | 5.187 |
| 11-12-13 | 3.749 | 2.212 | 0.170 | 0.009 | - | - | - | - | - | - | - | 6.140 |
| 14-15-16 | 4.417 | 2.814 | 0.053 | - | - | - | - | - | - | - | - | 7.284 |
| 17-18-19 | 4.047 | 1.647 | 0.002 | - | - | - | - | - | - | - | - | 5.697 |
| 20-21-22 | 2.320 | 0.554 | 0.009 | - | - | - | - | - | - | - | - | 2.883 |
| 23-24-25 | 1.484 | 0.326 | 0.014 | - | 0.002 | - | - | - | - | - | - | 1.826 |
| 26-27-28 | 1.711 | 1.160 | 0.186 | 0.039 | 0.007 | 0.005 | - | - | - | - | - | 3.108 |
| 29-30-31 | 2.793 | 4.736 | 6.184 | 5.407 | 3.340 | 1.463 | 0.338 | 0.046 | 0.009 | - | - | 24.316 |
| 32-33-34 | 2.713 | 3.579 | 2.982 | 2.745 | 1.323 | 0.517 | 0.179 | 0.048 | - | - | - | 14.085 |
| TOTAL | 44.047 | 22.733 | 10.196 | 8.249 | 4.672 | 1.987 | 0.517 | 0.094 | 0.009 | - | - | 100 |




**CALM**
7.50%

**VARIABLE**
9.22%

The prevailing wind directions of 290º-340º frequency of occurrence is 38.41%.

The most frequent wind speed is up to 10 knots, which corresponds to the Light breeze or Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 66.78%);

The maximum wind of 41-45 knots is observed within the 290º-310º sectors (frequency of occurrence 0.01%).

**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

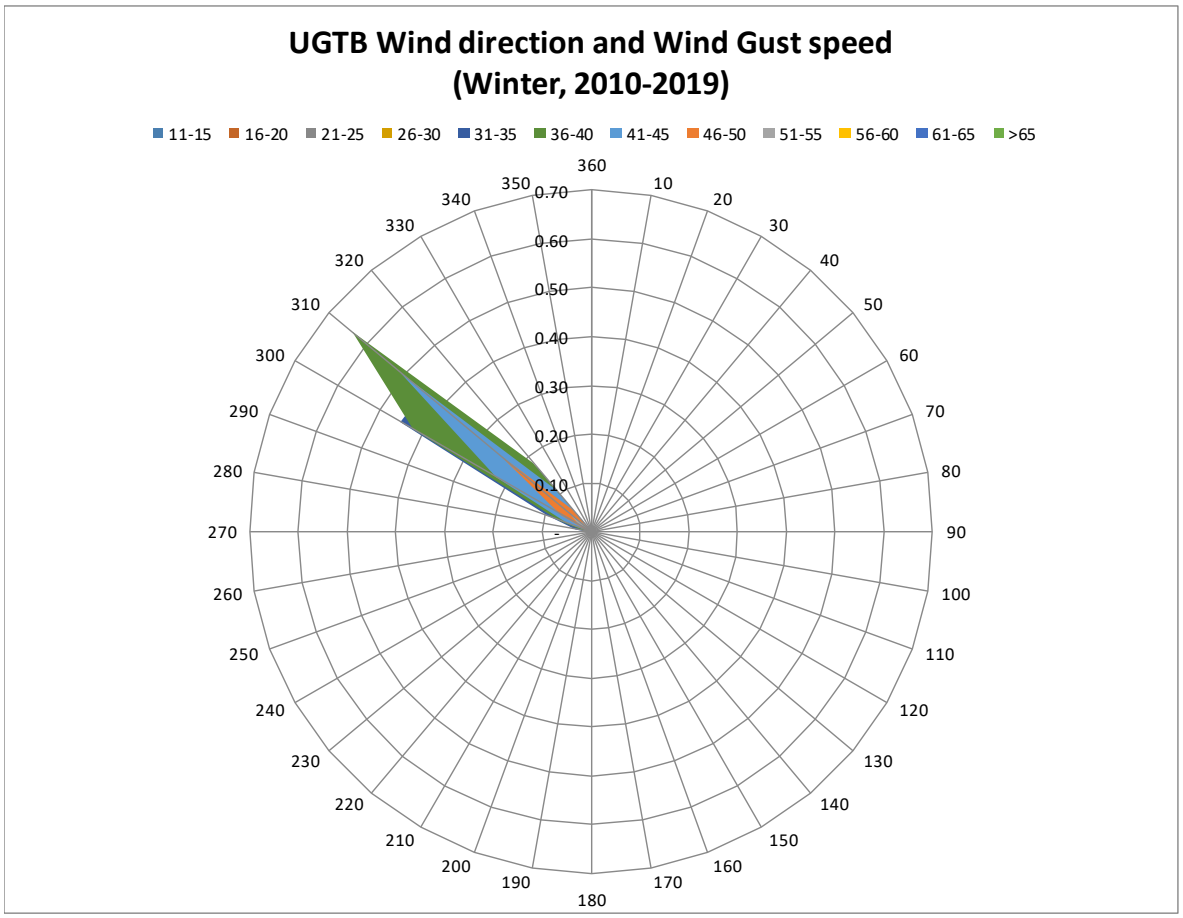
AERODROME: UGTB SEASON: WINTER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 43296 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | 0.002 | - | - | - | - | - | - | - | - | - | - | 0.002 |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | 0.002 | - | - | - | - | - | - | - | - | 0.002 |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | 0.002 | 0.005 | 0.002 | 0.005 | - | - | 0.002 | - | 0.002 | 0.002 | - | 0.021 |
| 270 | - | 0.002 | - | 0.007 | 0.002 | 0.009 | 0.005 | 0.005 | 0.002 | - | 0.007 | - | 0.039 |
| 280 | - | 0.002 | 0.007 | 0.009 | 0.032 | 0.016 | 0.005 | 0.002 | - | 0.002 | 0.007 | - | 0.083 |
| 290 | - | 0.002 | 0.005 | 0.071 | 0.094 | 0.067 | 0.051 | 0.007 | 0.005 | 0.002 | - | - | 0.304 |
| 300 | 0.002 | - | 0.046 | 0.134 | 0.452 | 0.422 | 0.223 | 0.069 | 0.025 | 0.009 | - | - | 1.382 |
| 310 | - | - | 0.014 | 0.150 | 0.447 | 0.638 | 0.509 | 0.244 | 0.058 | 0.014 | 0.005 | - | 2.078 |
| 320 | - | - | 0.005 | 0.048 | 0.168 | 0.184 | 0.115 | 0.060 | 0.023 | - | 0.002 | - | 0.606 |
| 330 | - | 0.005 | - | 0.002 | 0.009 | 0.005 | 0.012 | 0.005 | 0.002 | - | 0.005 | - | 0.044 |
| 340 | - | - | - | 0.002 | - | - | - | - | - | - | - | - | 0.002 |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.002 | 0.016 | 0.081 | 0.429 | 1.210 | 1.341 | 0.919 | 0.394 | 0.115 | 0.030 | 0.028 | - | 4.564 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 1.49%.

The maximum wind gust speed (61-65 knots) corresponds to Violent storm and Hurricane according to “Beaufort wind force scale” (frequency of occurrence 0.03%).

The directions of maximum wind gusts are 260º, 270º, 280º, 310º, 320º and 330º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

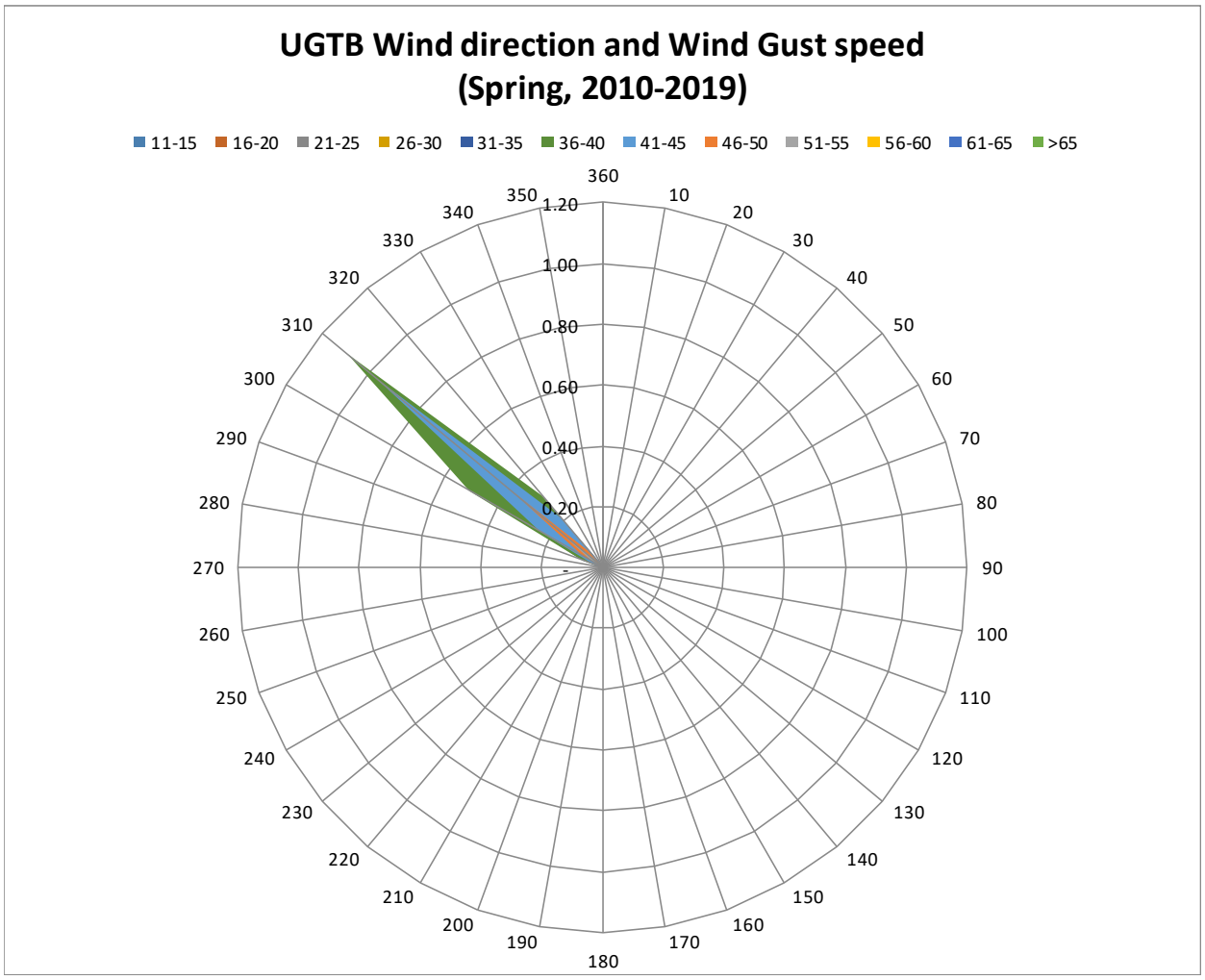
AERODROME: UGTB SEASON: SPRING PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 44160 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | 0.002 | - | - | - | - | - | 0.002 |
| 30 | - | - | 0.002 | - | - | - | - | - | - | - | - | - | 0.002 |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | 0.002 | - | 0.002 | - | - | - | - | - | - | - | - | 0.005 |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | 0.002 | - | 0.002 | - | - | - | - | - | - | 0.005 |
| 80 | - | - | 0.002 | - | - | - | - | - | - | - | - | - | 0.002 |
| 90 | 0.002 | - | - | - | - | - | - | - | - | - | - | - | 0.002 |
| 100 | - | - | 0.007 | - | - | - | - | - | - | - | - | - | 0.007 |
| 110 | - | - | 0.002 | - | - | - | - | - | - | - | - | - | 0.002 |
| 120 | - | - | - | 0.002 | - | - | - | - | - | - | - | - | 0.002 |
| 130 | - | 0.002 | - | - | - | - | - | - | - | - | - | - | 0.002 |
| 140 | - | 0.002 | 0.005 | - | - | - | - | - | - | - | - | - | 0.007 |
| 150 | - | 0.005 | 0.002 | - | - | - | - | - | - | - | - | - | 0.007 |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | 0.002 | - | - | - | - | - | - | - | - | - | - | 0.002 |
| 180 | - | 0.002 | - | - | - | - | - | - | - | - | - | - | 0.002 |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | 0.002 | - | - | - | - | - | - | - | - | - | 0.002 |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | 0.002 | 0.002 | - | - | - | - | - | - | - | - | 0.005 |
| 230 | - | - | 0.002 | 0.002 | - | - | - | - | - | - | - | - | 0.005 |
| 240 | - | - | 0.002 | - | - | - | - | - | - | - | - | - | 0.002 |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | 0.005 | 0.002 | - | - | - | - | - | - | - | 0.007 |
| 270 | - | - | - | 0.005 | 0.005 | 0.002 | - | - | - | - | - | - | 0.011 |
| 280 | - | - | - | 0.007 | 0.007 | 0.009 | 0.002 | - | - | - | - | - | 0.025 |
| 290 | - | - | 0.011 | 0.050 | 0.068 | 0.070 | 0.025 | 0.002 | 0.002 | - | - | - | 0.228 |
| 300 | - | 0.005 | 0.050 | 0.129 | 0.359 | 0.504 | 0.237 | 0.077 | 0.027 | 0.002 | - | - | 1.390 |
| 310 | - | 0.002 | 0.036 | 0.160 | 0.603 | 1.094 | 0.962 | 0.391 | 0.169 | 0.050 | 0.018 | - | 3.486 |
| 320 | - | 0.005 | 0.020 | 0.075 | 0.242 | 0.307 | 0.210 | 0.075 | 0.036 | 0.018 | - | - | 0.987 |
| 330 | - | - | 0.011 | 0.011 | 0.018 | 0.016 | 0.014 | 0.002 | - | - | - | - | 0.072 |
| 340 | - | - | - | 0.011 | 0.002 | - | - | - | - | - | - | - | 0.014 |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.002 | 0.027 | 0.158 | 0.463 | 1.306 | 2.004 | 1.453 | 0.547 | 0.235 | 0.070 | 0.018 | - | 6.283 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 2.32%.

The maximum wind speed (61-65 knots) corresponds to Violent storm and Hurricane according to “Beaufort wind force scale” (frequency of occurrence – 0.02%).

The direction of maximum wind gusts is 310º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

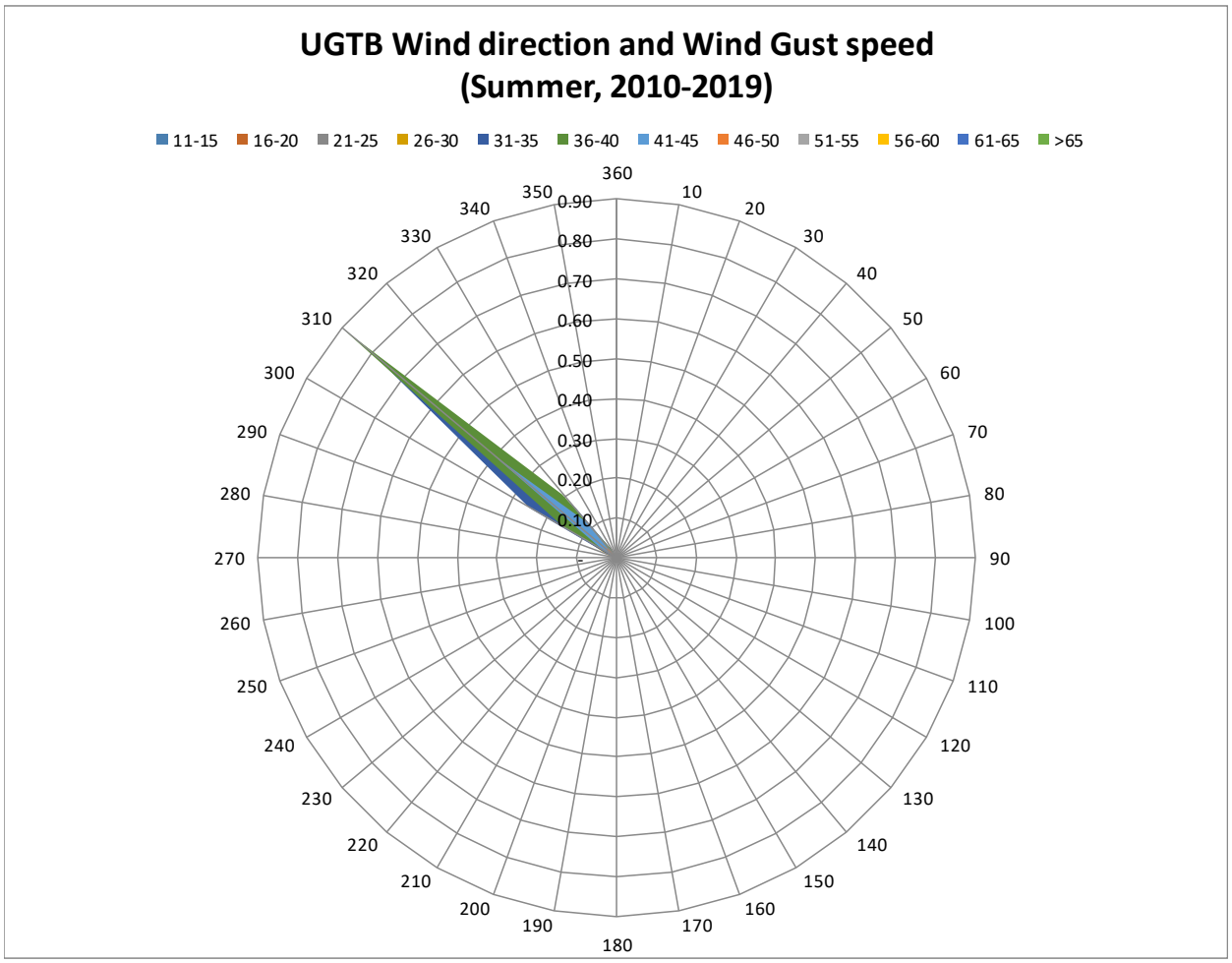
AERODROME: UGTB SEASON: SUMMER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 44160 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | 0.002 | - | - | - | - | - | - | - | - | - | 0.002 |
| 10 | - | - | - | 0.002 | - | - | - | - | - | - | - | - | 0.002 |
| 20 | - | - | 0.002 | 0.002 | - | - | - | - | - | - | - | - | 0.005 |
| 30 | - | - | - | 0.002 | 0.002 | - | - | - | - | - | - | - | 0.005 |
| 40 | - | - | - | - | 0.002 | - | 0.002 | 0.002 | - | - | - | - | 0.007 |
| 50 | - | 0.002 | 0.002 | - | - | - | 0.002 | 0.002 | - | - | - | - | 0.009 |
| 60 | - | - | - | 0.002 | - | 0.005 | 0.002 | - | - | - | - | - | 0.009 |
| 70 | - | 0.002 | - | - | - | - | 0.005 | - | - | - | - | - | 0.007 |
| 80 | - | - | 0.007 | 0.005 | - | - | - | - | - | - | - | - | 0.011 |
| 90 | - | 0.007 | - | 0.002 | - | - | - | - | - | - | - | - | 0.009 |
| 100 | - | - | 0.011 | 0.002 | - | - | 0.002 | - | - | - | - | - | 0.016 |
| 110 | - | 0.014 | 0.016 | 0.002 | - | 0.002 | - | - | - | - | - | - | 0.034 |
| 120 | - | 0.005 | 0.002 | 0.002 | - | 0.005 | - | - | - | - | - | - | 0.014 |
| 130 | - | 0.016 | 0.002 | 0.007 | - | - | - | - | - | - | - | - | 0.025 |
| 140 | - | 0.005 | 0.005 | - | - | 0.002 | 0.005 | - | - | - | - | - | 0.016 |
| 150 | 0.005 | 0.002 | 0.002 | - | - | 0.005 | - | - | - | - | - | - | 0.014 |
| 160 | - | 0.002 | - | - | 0.002 | 0.002 | 0.002 | - | - | - | - | - | 0.009 |
| 170 | - | 0.007 | - | - | - | - | 0.002 | - | - | - | - | - | 0.009 |
| 180 | - | 0.002 | 0.002 | - | 0.002 | - | - | - | - | - | - | - | 0.007 |
| 190 | - | - | 0.002 | 0.002 | - | - | 0.002 | - | - | - | - | - | 0.007 |
| 200 | - | - | 0.005 | - | - | - | 0.002 | - | - | - | - | - | 0.007 |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | 0.002 | - | - | - | - | - | - | 0.002 |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | 0.002 | - | - | - | - | - | - | - | 0.002 |
| 250 | - | - | 0.005 | - | - | - | - | - | - | - | - | - | 0.005 |
| 260 | - | - | 0.002 | - | 0.002 | - | - | - | - | - | - | - | 0.005 |
| 270 | - | - | 0.002 | - | 0.002 | - | - | - | - | - | - | - | 0.005 |
| 280 | - | - | 0.002 | 0.007 | - | 0.002 | 0.002 | - | - | - | - | - | 0.014 |
| 290 | - | 0.002 | 0.002 | 0.020 | 0.016 | 0.002 | 0.002 | - | - | - | - | - | 0.045 |
| 300 | - | - | 0.027 | 0.116 | 0.252 | 0.154 | 0.036 | 0.005 | - | - | - | - | 0.590 |
| 310 | 0.002 | 0.005 | 0.023 | 0.193 | 0.821 | 0.891 | 0.406 | 0.050 | 0.005 | - | - | - | 2.394 |
| 320 | - | 0.005 | 0.029 | 0.059 | 0.161 | 0.209 | 0.113 | 0.020 | 0.005 | - | - | - | 0.601 |
| 330 | - | 0.002 | 0.005 | 0.016 | 0.020 | 0.018 | - | - | - | - | - | - | 0.061 |
| 340 | - | 0.002 | 0.002 | 0.005 | 0.007 | - | - | - | - | - | - | - | 0.016 |
| 350 | - | - | - | - | - | 0.002 | - | - | - | - | - | - | 0.002 |
| TOTAL | 0.007 | 0.079 | 0.161 | 0.447 | 1.292 | 1.302 | 0.587 | 0.079 | 0.009 | - | - | - | 3.964 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.68%.

The maximum wind speed (51-55 knots) corresponds to Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.01%).

The directions of maximum wind gusts are 310º and 320º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

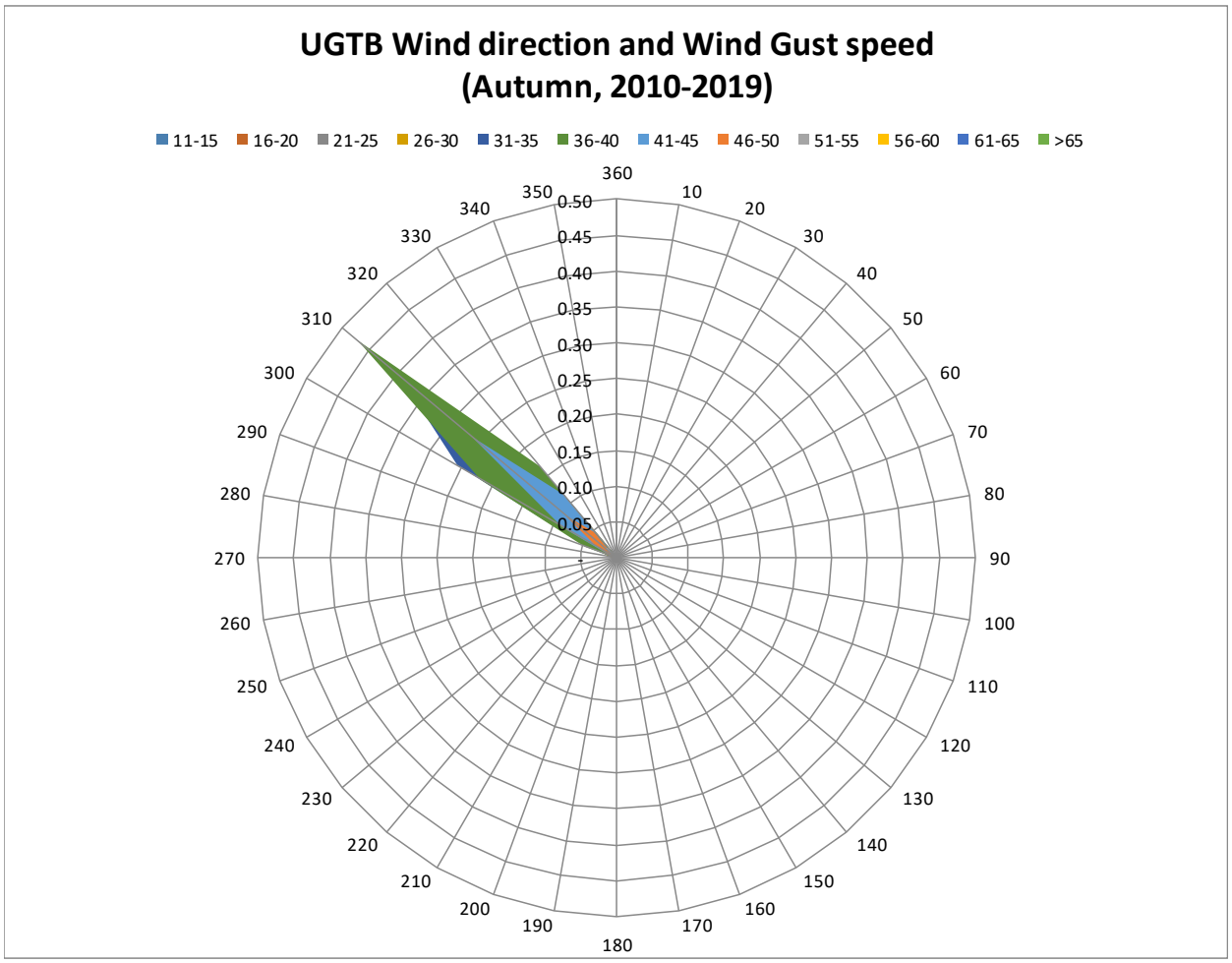
AERODROME: UGTB SEASON: AUTUMN PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 43680 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | >65 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | 0.002 | - | 0.002 | - | - | - | - | - | - | 0.005 |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 | - | 0.002 | - | - | - | - | - | - | - | - | - | - | 0.002 |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | 0.002 | - | - | - | - | - | - | - | - | - | - | 0.002 |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | 0.007 | - | - | - | - | - | - | - | - | - | - | 0.007 |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | 0.002 | - | - | - | - | - | - | - | - | - | - | 0.002 |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | 0.002 | - | - | - | - | - | - | - | - | - | 0.002 |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | 0.002 | - | - | - | - | - | - | - | - | - | 0.002 |
| 270 | - | - | - | 0.005 | 0.002 | - | - | - | - | - | - | - | 0.007 |
| 280 | - | 0.002 | - | 0.014 | 0.005 | 0.005 | - | - | - | - | - | - | 0.025 |
| 290 | - | 0.002 | 0.005 | 0.021 | 0.046 | 0.048 | 0.005 | 0.005 | - | - | - | - | 0.131 |
| 300 | - | 0.002 | 0.007 | 0.117 | 0.257 | 0.218 | 0.087 | 0.032 | 0.009 | - | - | - | 0.730 |
| 310 | - | - | 0.032 | 0.140 | 0.393 | 0.471 | 0.264 | 0.092 | 0.021 | 0.007 | - | - | 1.420 |
| 320 | - | - | 0.021 | 0.060 | 0.131 | 0.165 | 0.115 | 0.048 | 0.018 | - | - | - | 0.558 |
| 330 | - | - | - | 0.007 | 0.009 | 0.007 | - | - | - | - | - | - | 0.023 |
| 340 | - | 0.002 | - | 0.005 | - | - | - | - | - | - | - | - | 0.007 |
| 350 | - | - | 0.002 | 0.002 | - | - | - | - | - | - | - | - | 0.005 |
| TOTAL | - | 0.023 | 0.071 | 0.372 | 0.843 | 0.917 | 0.471 | 0.177 | 0.048 | 0.007 | - | - | 2.929 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.65%.

The maximum wind speed (56-60 knots) corresponds to Violent Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.01%).

The direction of maximum wind gusts is 310º.

**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

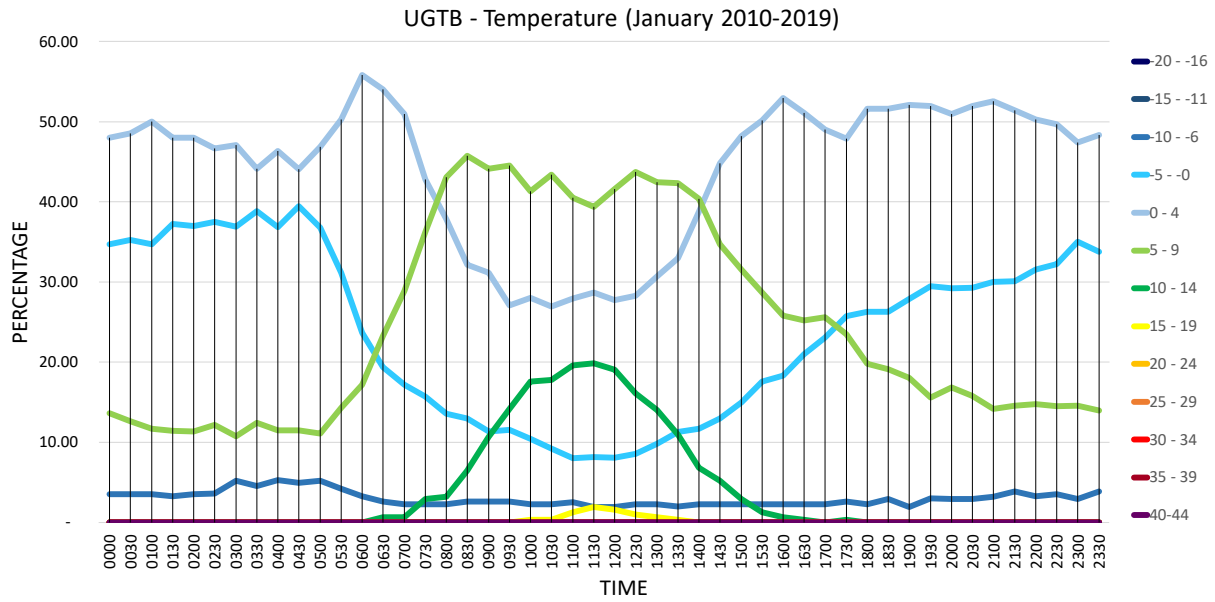
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | 3.57 | 34.74 | 48.05 | 13.64 | - | - | - | - | - | - | - |
| 0030 | - | - | 3.56 | 35.28 | 48.54 | 12.62 | - | - | - | - | - | - | - |
| 0100 | - | - | 3.57 | 34.74 | 50.00 | 11.69 | - | - | - | - | - | - | - |
| 0130 | - | - | 3.27 | 37.25 | 48.04 | 11.44 | - | - | - | - | - | - | - |
| 0200 | - | - | 3.57 | 37.01 | 48.05 | 11.36 | - | - | - | - | - | - | - |
| 0230 | - | - | 3.62 | 37.50 | 46.71 | 12.17 | - | - | - | - | - | - | - |
| 0300 | - | - | 5.23 | 36.93 | 47.06 | 10.78 | - | - | - | - | - | - | - |
| 0330 | - | - | 4.58 | 38.89 | 44.12 | 12.42 | - | - | - | - | - | - | - |
| 0400 | - | - | 5.26 | 36.84 | 46.38 | 11.51 | - | - | - | - | - | - | - |
| 0430 | - | - | 4.93 | 39.47 | 44.08 | 11.51 | - | - | - | - | - | - | - |
| 0500 | - | - | 5.21 | 36.81 | 46.91 | 11.07 | - | - | - | - | - | - | - |
| 0530 | - | - | 4.22 | 31.17 | 50.32 | 14.29 | - | - | - | - | - | - | - |
| 0600 | - | - | 3.25 | 23.70 | 55.84 | 17.21 | - | - | - | - | - | - | - |
| 0630 | - | - | 2.59 | 19.42 | 54.05 | 23.30 | 0.65 | - | - | - | - | - | - |
| 0700 | - | - | 2.27 | 17.21 | 50.97 | 28.90 | 0.65 | - | - | - | - | - | - |
| 0730 | - | - | 2.29 | 15.69 | 42.81 | 36.27 | 2.94 | - | - | - | - | - | - |
| 0800 | - | - | 2.27 | 13.59 | 37.86 | 43.04 | 3.24 | - | - | - | - | - | - |
| 0830 | - | - | 2.60 | 12.99 | 32.14 | 45.78 | 6.49 | - | - | - | - | - | - |
| 0900 | - | - | 2.60 | 11.36 | 31.17 | 44.16 | 10.71 | - | - | - | - | - | - |
| 0930 | - | - | 2.64 | 11.55 | 27.06 | 44.55 | 14.19 | - | - | - | - | - | - |
| 1000 | - | - | 2.28 | 10.42 | 28.01 | 41.37 | 17.59 | 0.33 | - | - | - | - | - |
| 1030 | - | - | 2.30 | 9.21 | 26.97 | 43.42 | 17.76 | 0.33 | - | - | - | - | - |
| 1100 | - | - | 2.57 | 8.04 | 27.97 | 40.51 | 19.61 | 1.29 | - | - | - | - | - |
| 1130 | - | - | 1.95 | 8.14 | 28.66 | 39.41 | 19.87 | 1.95 | - | - | - | - | - |
| 1200 | - | - | 1.94 | 8.06 | 27.74 | 41.61 | 19.03 | 1.61 | - | - | - | - | - |
| 1230 | - | - | 2.30 | 8.55 | 28.29 | 43.75 | 16.12 | 0.99 | - | - | - | - | - |
| 1300 | - | - | 2.29 | 9.80 | 30.72 | 42.48 | 14.05 | 0.65 | - | - | - | - | - |
| 1330 | - | - | 2.00 | 11.33 | 33.00 | 42.33 | 11.00 | 0.33 | - | - | - | - | - |
| 1400 | - | - | 2.28 | 11.73 | 38.76 | 40.39 | 6.84 | - | - | - | - | - | - |
| 1430 | - | - | 2.27 | 12.99 | 44.81 | 34.74 | 5.19 | - | - | - | - | - | - |
| 1500 | - | - | 2.28 | 14.98 | 48.21 | 31.60 | 2.93 | - | - | - | - | - | - |
| 1530 | - | - | 2.28 | 17.59 | 50.16 | 28.66 | 1.30 | - | - | - | - | - | - |
| 1600 | - | - | 2.29 | 18.30 | 52.94 | 25.82 | 0.65 | - | - | - | - | - | - |
| 1630 | - | - | 2.27 | 21.04 | 51.13 | 25.24 | 0.32 | - | - | - | - | - | - |
| 1700 | - | - | 2.27 | 23.05 | 49.03 | 25.65 | - | - | - | - | - | - | - |
| 1730 | - | - | 2.61 | 25.73 | 47.88 | 23.45 | 0.33 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1800 | - | - | 2.27 | 26.30 | 51.62 | 19.81 | - | - | - | - | - | - | - |
| 1830 | - | - | 2.92 | 26.30 | 51.62 | 19.16 | - | - | - | - | - | - | - |
| 1900 | - | - | 1.97 | 27.87 | 52.13 | 18.03 | - | - | - | - | - | - | - |
| 1930 | - | - | 2.98 | 29.47 | 51.99 | 15.56 | - | - | - | - | - | - | - |
| 2000 | - | - | 2.92 | 29.22 | 50.97 | 16.88 | - | - | - | - | - | - | - |
| 2030 | - | - | 2.96 | 29.28 | 51.97 | 15.79 | - | - | - | - | - | - | - |
| 2100 | - | - | 3.23 | 30.00 | 52.58 | 14.19 | - | - | - | - | - | - | - |
| 2130 | - | - | 3.88 | 30.10 | 51.46 | 14.56 | - | - | - | - | - | - | - |
| 2200 | - | - | 3.29 | 31.58 | 50.33 | 14.80 | - | - | - | - | - | - | - |
| 2230 | - | - | 3.55 | 32.26 | 49.68 | 14.52 | - | - | - | - | - | - | - |
| 2300 | - | - | 2.92 | 35.06 | 47.40 | 14.61 | - | - | - | - | - | - | - |
| 2330 | - | - | 3.90 | 33.77 | 48.38 | 13.96 | - | - | - | - | - | - | - |
| MEAN | - | - | 3.00 | 23.80 | 44.27 | 24.79 | 3.99 | 0.16 | - | - | - | - | - |

Min temperature -10º to -6º (time 0400 UTC) – 5.26%

Max temperature 15º to 19º (time 1130 UTC) – 1.95%

Mean dominating temperature 0º to 4º – 44.27%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

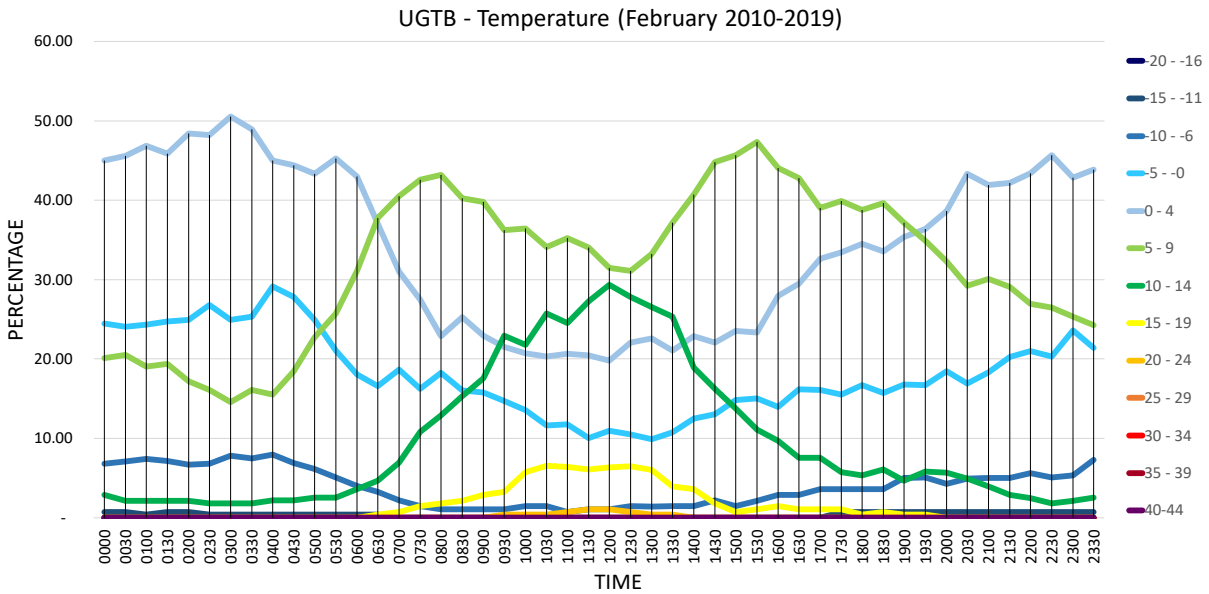
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | 0.72 | 6.83 | 24.46 | 44.96 | 20.14 | 2.88 | - | - | - | - | - | - |
| 0030 | - | 0.71 | 7.07 | 24.03 | 45.58 | 20.49 | 2.12 | - | - | - | - | - | - |
| 0100 | - | 0.35 | 7.39 | 24.30 | 46.83 | 19.01 | 2.11 | - | - | - | - | - | - |
| 0130 | - | 0.72 | 7.17 | 24.73 | 45.88 | 19.35 | 2.15 | - | - | - | - | - | - |
| 0200 | - | 0.70 | 6.67 | 24.91 | 48.42 | 17.19 | 2.11 | - | - | - | - | - | - |
| 0230 | - | 0.36 | 6.79 | 26.79 | 48.21 | 16.07 | 1.79 | - | - | - | - | - | - |
| 0300 | - | 0.36 | 7.83 | 24.91 | 50.53 | 14.59 | 1.78 | - | - | - | - | - | - |
| 0330 | - | 0.36 | 7.50 | 25.36 | 48.93 | 16.07 | 1.79 | - | - | - | - | - | - |
| 0400 | - | 0.36 | 7.91 | 29.14 | 44.96 | 15.47 | 2.16 | - | - | - | - | - | - |
| 0430 | - | 0.36 | 6.86 | 27.80 | 44.40 | 18.41 | 2.17 | - | - | - | - | - | - |
| 0500 | - | 0.36 | 6.14 | 24.91 | 43.32 | 22.74 | 2.53 | - | - | - | - | - | - |
| 0530 | - | 0.36 | 5.07 | 21.01 | 45.29 | 25.72 | 2.54 | - | - | - | - | - | - |
| 0600 | - | 0.36 | 3.97 | 18.05 | 42.96 | 31.05 | 3.61 | - | - | - | - | - | - |
| 0630 | - | 0.36 | 3.24 | 16.55 | 37.05 | 37.77 | 4.68 | 0.36 | - | - | - | - | - |
| 0700 | - | - | 2.19 | 18.61 | 31.02 | 40.51 | 6.93 | 0.73 | - | - | - | - | - |
| 0730 | - | - | 1.44 | 16.25 | 27.44 | 42.60 | 10.83 | 1.44 | - | - | - | - | - |
| 0800 | - | - | 1.07 | 18.21 | 22.86 | 43.21 | 12.86 | 1.79 | - | - | - | - | - |
| 0830 | - | - | 1.07 | 16.01 | 25.27 | 40.21 | 15.30 | 2.14 | - | - | - | - | - |
| 0900 | - | - | 1.08 | 15.77 | 22.94 | 39.78 | 17.56 | 2.87 | - | - | - | - | - |
| 0930 | - | - | 1.08 | 14.70 | 21.51 | 36.20 | 22.94 | 3.23 | 0.36 | - | - | - | - |
| 1000 | - | - | 1.43 | 13.57 | 20.71 | 36.43 | 21.79 | 5.71 | 0.36 | - | - | - | - |
| 1030 | - | - | 1.45 | 11.59 | 20.29 | 34.06 | 25.72 | 6.52 | 0.36 | - | - | - | - |
| 1100 | - | - | 0.71 | 11.74 | 20.64 | 35.23 | 24.56 | 6.41 | 0.71 | - | - | - | - |
| 1130 | - | - | 1.08 | 10.04 | 20.43 | 34.05 | 27.24 | 6.09 | 1.08 | - | - | - | - |
| 1200 | - | - | 1.06 | 10.95 | 19.79 | 31.45 | 29.33 | 6.36 | 1.06 | - | - | - | - |
| 1230 | - | - | 1.44 | 10.47 | 22.02 | 31.05 | 27.80 | 6.50 | 0.72 | - | - | - | - |
| 1300 | - | - | 1.41 | 9.89 | 22.61 | 33.22 | 26.50 | 6.01 | 0.35 | - | - | - | - |
| 1330 | - | - | 1.43 | 10.71 | 21.07 | 37.14 | 25.36 | 3.93 | 0.36 | - | - | - | - |
| 1400 | - | - | 1.43 | 12.50 | 22.86 | 40.71 | 18.93 | 3.57 | - | - | - | - | - |
| 1430 | - | - | 2.17 | 13.00 | 22.02 | 44.77 | 16.25 | 1.81 | - | - | - | - | - |
| 1500 | - | - | 1.45 | 14.86 | 23.55 | 45.65 | 13.77 | 0.72 | - | - | - | - | - |
| 1530 | - | - | 2.15 | 15.05 | 23.30 | 47.31 | 11.11 | 1.08 | - | - | - | - | - |
| 1600 | - | - | 2.87 | 13.98 | 27.96 | 44.09 | 9.68 | 1.43 | - | - | - | - | - |
| 1630 | - | - | 2.88 | 16.19 | 29.50 | 42.81 | 7.55 | 1.08 | - | - | - | - | - |
| 1700 | - | - | 3.58 | 16.13 | 32.62 | 39.07 | 7.53 | 1.08 | - | - | - | - | - |
| 1730 | - | 0.72 | 3.60 | 15.47 | 33.45 | 39.93 | 5.76 | 1.08 | - | - | - | - | - |
| 1800 | - | 0.71 | 3.56 | 16.73 | 34.52 | 38.79 | 5.34 | 0.36 | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1830 | - | 0.71 | 3.57 | 15.71 | 33.57 | 39.64 | 6.07 | 0.71 | - | - | - | - | - |
| 1900 | - | 0.71 | 5.00 | 16.79 | 35.36 | 37.14 | 4.64 | 0.36 | - | - | - | - | - |
| 1930 | - | 0.73 | 5.09 | 16.73 | 36.36 | 34.91 | 5.82 | 0.36 | - | - | - | - | - |
| 2000 | - | 0.71 | 4.26 | 18.44 | 38.65 | 32.27 | 5.67 | - | - | - | - | - | - |
| 2030 | - | 0.70 | 4.93 | 16.90 | 43.31 | 29.23 | 4.93 | - | - | - | - | - | - |
| 2100 | - | 0.72 | 5.02 | 18.28 | 41.94 | 30.11 | 3.94 | - | - | - | - | - | - |
| 2130 | - | 0.71 | 4.96 | 20.21 | 42.20 | 29.08 | 2.84 | - | - | - | - | - | - |
| 2200 | - | 0.70 | 5.59 | 20.98 | 43.36 | 26.92 | 2.45 | - | - | - | - | - | - |
| 2230 | - | 0.72 | 5.07 | 20.29 | 45.65 | 26.45 | 1.81 | - | - | - | - | - | - |
| 2300 | - | 0.71 | 5.36 | 23.57 | 42.86 | 25.36 | 2.14 | - | - | - | - | - | - |
| 2330 | - | 0.72 | 7.25 | 21.38 | 43.84 | 24.28 | 2.54 | - | - | - | - | - | - |
| MEAN | - | 0.33 | 3.92 | 18.10 | 34.43 | 31.83 | 9.75 | 1.54 | 0.11 | - | - | - | - |

Min temperature -15º to -11º (time 1930 UTC) – 0.73%

Max temperature 20º to 24º (time 1130 UTC) – 1.08%

Mean dominating temperature 0º to 4º – 34.43%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

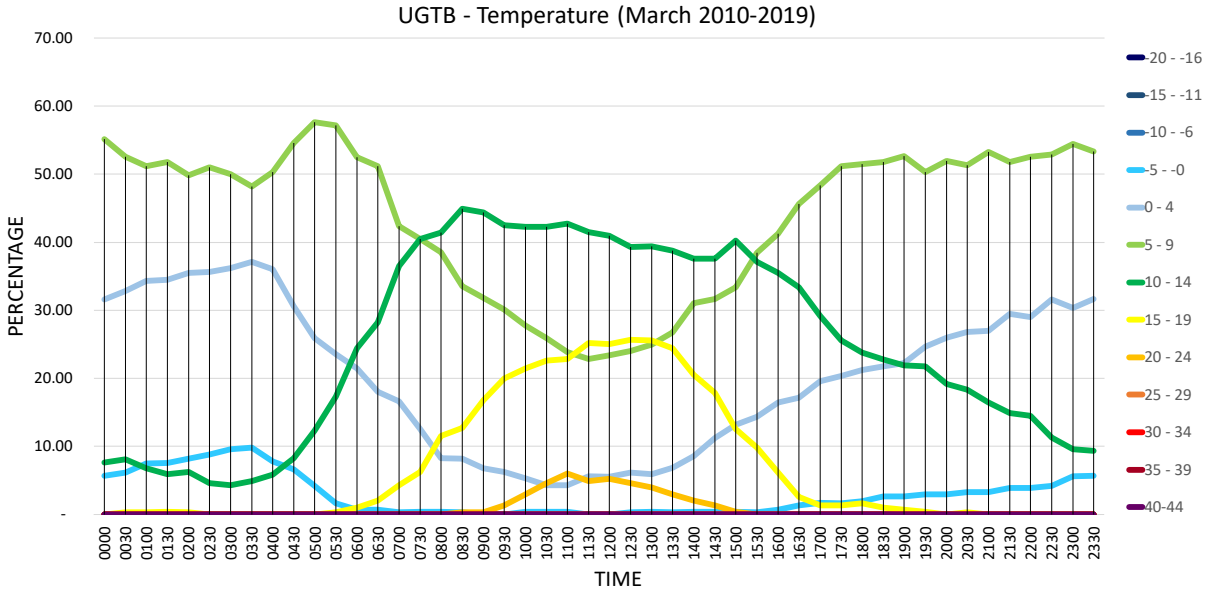
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | 5.65 | 31.56 | 55.15 | 7.64 | - | - | - | - | - | - |
| 0030 | - | - | - | 6.17 | 32.79 | 52.60 | 8.12 | 0.32 | - | - | - | - | - |
| 0100 | - | - | - | 7.44 | 34.30 | 51.13 | 6.80 | 0.32 | - | - | - | - | - |
| 0130 | - | - | - | 7.54 | 34.43 | 51.80 | 5.90 | 0.33 | - | - | - | - | - |
| 0200 | - | - | - | 8.14 | 35.50 | 49.84 | 6.19 | 0.33 | - | - | - | - | - |
| 0230 | - | - | - | 8.82 | 35.62 | 50.98 | 4.58 | - | - | - | - | - | - |
| 0300 | - | - | - | 9.54 | 36.18 | 50.00 | 4.28 | - | - | - | - | - | - |
| 0330 | - | - | - | 9.77 | 37.13 | 48.21 | 4.89 | - | - | - | - | - | - |
| 0400 | - | - | - | 7.79 | 36.04 | 50.32 | 5.84 | - | - | - | - | - | - |
| 0430 | - | - | - | 6.58 | 30.59 | 54.61 | 8.22 | - | - | - | - | - | - |
| 0500 | - | - | - | 4.21 | 25.89 | 57.61 | 12.30 | - | - | - | - | - | - |
| 0530 | - | - | - | 1.63 | 23.53 | 57.19 | 17.32 | 0.33 | - | - | - | - | - |
| 0600 | - | - | - | 0.66 | 21.45 | 52.48 | 24.42 | 0.99 | - | - | - | - | - |
| 0630 | - | - | - | 0.66 | 18.03 | 51.15 | 28.20 | 1.97 | - | - | - | - | - |
| 0700 | - | - | - | 0.33 | 16.61 | 42.35 | 36.48 | 4.23 | - | - | - | - | - |
| 0730 | - | - | - | 0.33 | 12.50 | 40.46 | 40.46 | 6.25 | - | - | - | - | - |
| 0800 | - | - | - | 0.33 | 8.22 | 38.49 | 41.45 | 11.51 | - | - | - | - | - |
| 0830 | - | - | - | 0.33 | 8.14 | 33.55 | 44.95 | 12.70 | 0.33 | - | - | - | - |
| 0900 | - | - | - | - | 6.75 | 31.83 | 44.37 | 16.72 | 0.32 | - | - | - | - |
| 0930 | - | - | - | - | 6.21 | 30.07 | 42.48 | 19.93 | 1.31 | - | - | - | - |
| 1000 | - | - | - | 0.33 | 5.28 | 27.72 | 42.24 | 21.45 | 2.97 | - | - | - | - |
| 1030 | - | - | - | 0.33 | 4.26 | 25.90 | 42.30 | 22.62 | 4.59 | - | - | - | - |
| 1100 | - | - | - | 0.33 | 4.30 | 23.84 | 42.72 | 22.85 | 5.96 | - | - | - | - |
| 1130 | - | - | - | - | 5.56 | 22.88 | 41.50 | 25.16 | 4.90 | - | - | - | - |
| 1200 | - | - | - | - | 5.52 | 23.38 | 40.91 | 25.00 | 5.19 | - | - | - | - |
| 1230 | - | - | - | 0.32 | 6.17 | 24.03 | 39.29 | 25.65 | 4.55 | - | - | - | - |
| 1300 | - | - | - | 0.33 | 5.90 | 24.92 | 39.34 | 25.57 | 3.93 | - | - | - | - |
| 1330 | - | - | - | 0.33 | 6.84 | 26.71 | 38.76 | 24.43 | 2.93 | - | - | - | - |
| 1400 | - | - | - | 0.33 | 8.58 | 31.02 | 37.62 | 20.46 | 1.98 | - | - | - | - |
| 1430 | - | - | - | 0.33 | 11.22 | 31.68 | 37.62 | 17.82 | 1.32 | - | - | - | - |
| 1500 | - | - | - | 0.33 | 13.20 | 33.33 | 40.26 | 12.54 | 0.33 | - | - | - | - |
| 1530 | - | - | - | 0.33 | 14.33 | 38.44 | 37.13 | 9.77 | - | - | - | - | - |
| 1600 | - | - | - | 0.65 | 16.45 | 41.29 | 35.48 | 6.13 | - | - | - | - | - |
| 1630 | - | - | - | 1.29 | 17.15 | 45.63 | 33.33 | 2.59 | - | - | - | - | - |
| 1700 | - | - | - | 1.66 | 19.54 | 48.34 | 29.14 | 1.32 | - | - | - | - | - |
| 1730 | - | - | - | 1.64 | 20.33 | 51.15 | 25.57 | 1.31 | - | - | - | - | - |
| 1800 | - | - | - | 1.95 | 21.17 | 51.47 | 23.78 | 1.63 | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1830 | - | - | - | 2.64 | 21.78 | 51.82 | 22.77 | 0.99 | - | - | - | - | - |
| 1900 | - | - | - | 2.61 | 22.22 | 52.61 | 21.90 | 0.65 | - | - | - | - | - |
| 1930 | - | - | - | 2.96 | 24.67 | 50.33 | 21.71 | 0.33 | - | - | - | - | - |
| 2000 | - | - | - | 2.92 | 25.97 | 51.95 | 19.16 | - | - | - | - | - | - |
| 2030 | - | - | - | 3.27 | 26.80 | 51.31 | 18.30 | 0.33 | - | - | - | - | - |
| 2100 | - | - | - | 3.29 | 26.97 | 53.29 | 16.45 | - | - | - | - | - | - |
| 2130 | - | - | - | 3.88 | 29.45 | 51.78 | 14.89 | - | - | - | - | - | - |
| 2200 | - | - | - | 3.87 | 29.03 | 52.58 | 14.52 | - | - | - | - | - | - |
| 2230 | - | - | - | 4.19 | 31.61 | 52.90 | 11.29 | - | - | - | - | - | - |
| 2300 | - | - | - | 5.61 | 30.36 | 54.46 | 9.57 | - | - | - | - | - | - |
| 2330 | - | - | - | 5.67 | 31.67 | 53.33 | 9.33 | - | - | - | - | - | - |
| MEAN | - | - | - | 2.86 | 20.37 | 43.71 | 25.04 | 7.18 | 0.85 | - | - | - | - |

Min temperature -5º to -0º (time 0330 UTC) – 9.77%

Max temperature 20º to 24º (time 1100 UTC) – 5.96%

Mean dominating temperature 5º to 9º – 43.71%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

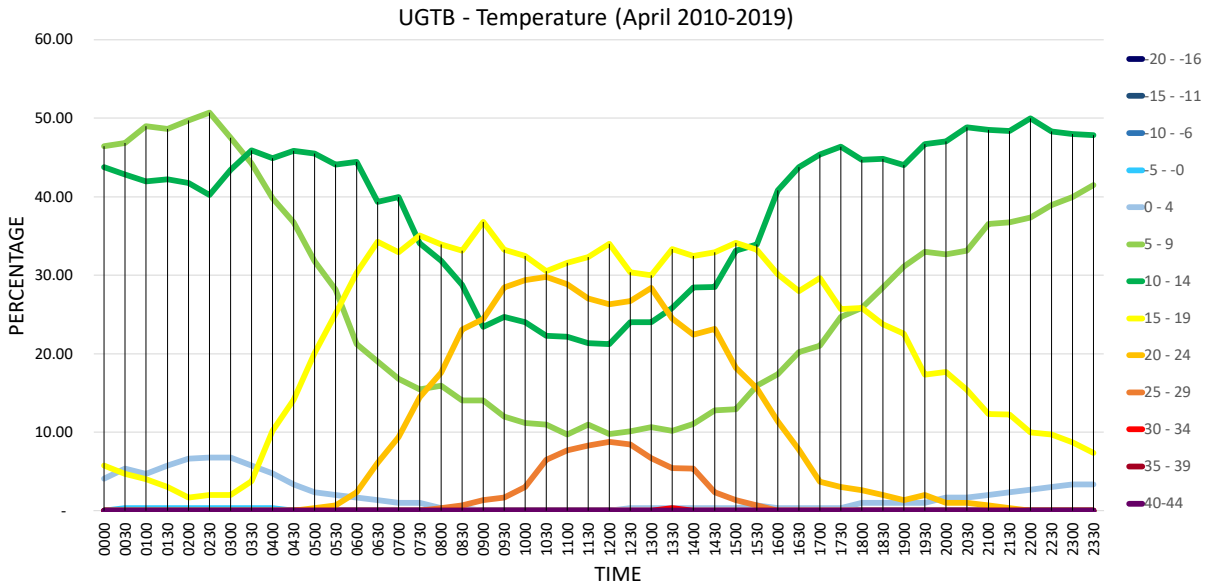
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | 4.07 | 46.44 | 43.73 | 5.76 | - | - | - | - | - |
| 0030 | - | - | - | 0.33 | 5.35 | 46.82 | 42.81 | 4.68 | - | - | - | - | - |
| 0100 | - | - | - | 0.34 | 4.70 | 48.99 | 41.95 | 4.03 | - | - | - | - | - |
| 0130 | - | - | - | 0.34 | 5.74 | 48.65 | 42.23 | 3.04 | - | - | - | - | - |
| 0200 | - | - | - | 0.33 | 6.62 | 49.67 | 41.72 | 1.66 | - | - | - | - | - |
| 0230 | - | - | - | 0.34 | 6.76 | 50.68 | 40.20 | 2.03 | - | - | - | - | - |
| 0300 | - | - | - | 0.34 | 6.73 | 47.47 | 43.43 | 2.02 | - | - | - | - | - |
| 0330 | - | - | - | 0.34 | 5.78 | 44.22 | 45.92 | 3.74 | - | - | - | - | - |
| 0400 | - | - | - | 0.34 | 4.76 | 39.80 | 44.90 | 10.20 | - | - | - | - | - |
| 0430 | - | - | - | - | 3.37 | 36.70 | 45.79 | 14.14 | - | - | - | - | - |
| 0500 | - | - | - | - | 2.34 | 31.77 | 45.48 | 20.07 | 0.33 | - | - | - | - |
| 0530 | - | - | - | - | 2.03 | 28.14 | 44.07 | 25.08 | 0.68 | - | - | - | - |
| 0600 | - | - | - | - | 1.68 | 21.21 | 44.44 | 30.30 | 2.36 | - | - | - | - |
| 0630 | - | - | - | - | 1.36 | 18.98 | 39.32 | 34.24 | 6.10 | - | - | - | - |
| 0700 | - | - | - | - | 1.01 | 16.78 | 39.93 | 32.89 | 9.40 | - | - | - | - |
| 0730 | - | - | - | - | 1.03 | 15.46 | 34.02 | 35.05 | 14.43 | - | - | - | - |
| 0800 | - | - | - | - | 0.34 | 15.93 | 31.86 | 33.90 | 17.63 | 0.34 | - | - | - |
| 0830 | - | - | - | - | 0.33 | 14.05 | 28.76 | 33.11 | 23.08 | 0.67 | - | - | - |
| 0900 | - | - | - | - | - | 14.05 | 23.41 | 36.79 | 24.41 | 1.34 | - | - | - |
| 0930 | - | - | - | - | - | 11.99 | 24.66 | 33.22 | 28.42 | 1.71 | - | - | - |
| 1000 | - | - | - | - | - | 11.15 | 23.99 | 32.43 | 29.39 | 3.04 | - | - | - |
| 1030 | - | - | - | - | - | 10.96 | 22.26 | 30.48 | 29.79 | 6.51 | - | - | - |
| 1100 | - | - | - | - | - | 9.73 | 22.15 | 31.54 | 28.86 | 7.72 | - | - | - |
| 1130 | - | - | - | - | - | 11.00 | 21.33 | 32.33 | 27.00 | 8.33 | - | - | - |
| 1200 | - | - | - | - | - | 9.76 | 21.21 | 34.01 | 26.26 | 8.75 | - | - | - |
| 1230 | - | - | - | - | 0.34 | 10.14 | 23.99 | 30.41 | 26.69 | 8.45 | - | - | - |
| 1300 | - | - | - | - | 0.33 | 10.67 | 24.00 | 30.00 | 28.33 | 6.67 | - | - | - |
| 1330 | - | - | - | - | 0.34 | 10.20 | 25.85 | 33.33 | 24.49 | 5.44 | 0.34 | - | - |
| 1400 | - | - | - | - | 0.33 | 11.04 | 28.43 | 32.44 | 22.41 | 5.35 | - | - | - |
| 1430 | - | - | - | - | 0.34 | 12.75 | 28.52 | 32.89 | 23.15 | 2.35 | - | - | - |
| 1500 | - | - | - | - | 0.33 | 12.91 | 33.11 | 34.11 | 18.21 | 1.32 | - | - | - |
| 1530 | - | - | - | - | 0.68 | 15.93 | 33.90 | 33.22 | 15.59 | 0.68 | - | - | - |
| 1600 | - | - | - | - | 0.33 | 17.39 | 40.80 | 30.10 | 11.37 | - | - | - | - |
| 1630 | - | - | - | - | 0.34 | 20.20 | 43.77 | 27.95 | 7.74 | - | - | - | - |
| 1700 | - | - | - | - | 0.33 | 21.00 | 45.33 | 29.67 | 3.67 | - | - | - | - |
| 1730 | - | - | - | - | 0.33 | 24.67 | 46.33 | 25.67 | 3.00 | - | - | - | - |
| 1800 | - | - | - | - | 0.99 | 25.83 | 44.70 | 25.83 | 2.65 | - | - | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1830 | - | - | - | - | 1.00 | 28.43 | 44.82 | 23.75 | 2.01 | - | - | - | - |
| 1900 | - | - | - | - | 0.99 | 31.13 | 44.04 | 22.52 | 1.32 | - | - | - | - |
| 1930 | - | - | - | - | 1.00 | 33.00 | 46.67 | 17.33 | 2.00 | - | - | - | - |
| 2000 | - | - | - | - | 1.67 | 32.67 | 47.00 | 17.67 | 1.00 | - | - | - | - |
| 2030 | - | - | - | - | 1.67 | 33.11 | 48.83 | 15.38 | 1.00 | - | - | - | - |
| 2100 | - | - | - | - | 1.99 | 36.54 | 48.50 | 12.29 | 0.66 | - | - | - | - |
| 2130 | - | - | - | - | 2.32 | 36.75 | 48.34 | 12.25 | 0.33 | - | - | - | - |
| 2200 | - | - | - | - | 2.67 | 37.33 | 50.00 | 10.00 | - | - | - | - | - |
| 2230 | - | - | - | - | 3.02 | 38.93 | 48.32 | 9.73 | - | - | - | - | - |
| 2300 | - | - | - | - | 3.36 | 39.93 | 47.99 | 8.72 | - | - | - | - | - |
| 2330 | - | - | - | - | 3.34 | 41.47 | 47.83 | 7.36 | - | - | - | - | - |
| MEAN | - | - | - | 0.06 | 1.92 | 26.72 | 38.35 | 21.86 | 9.66 | 1.43 | 0.01 | - | - |

Min temperature -5º to -0º (time 0100, 0130, 0230, 0300, 0330 and 0400 UTC) – each 0.34%

Max temperature 30º to 34º (time 1330 UTC) – 0.34%

Mean dominating temperature 10º to 14º – 38.35%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

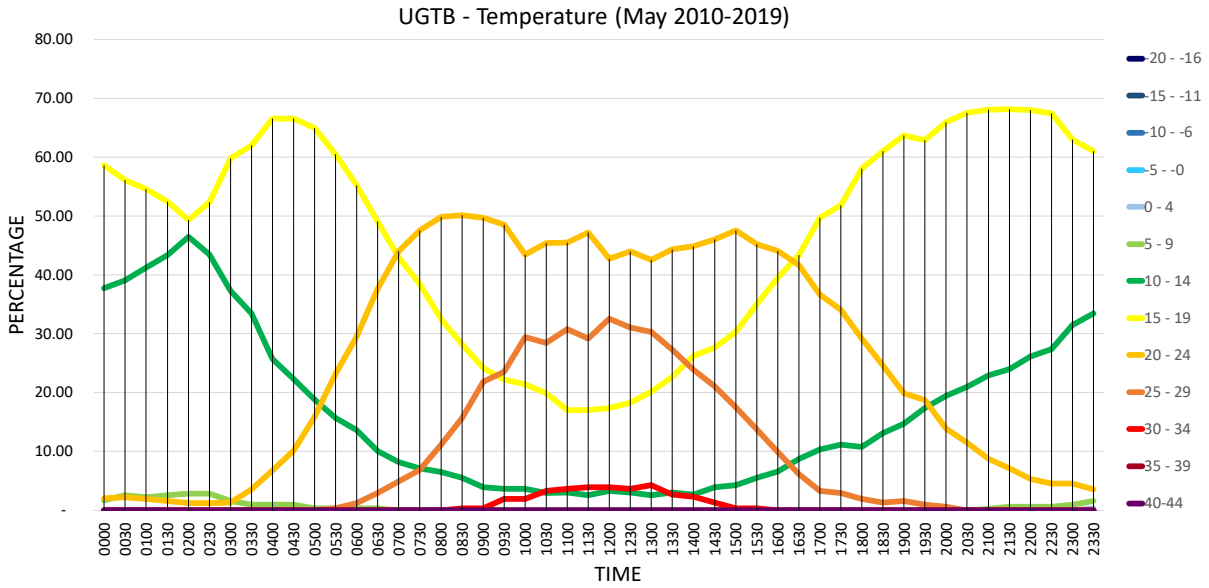
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | 1.68 | 37.71 | 58.59 | 2.02 | - | - | - | - |
| 0030 | - | - | - | - | - | 2.58 | 39.03 | 56.13 | 2.26 | - | - | - | - |
| 0100 | - | - | - | - | - | 2.27 | 41.23 | 54.55 | 1.95 | - | - | - | - |
| 0130 | - | - | - | - | - | 2.61 | 43.32 | 52.44 | 1.63 | - | - | - | - |
| 0200 | - | - | - | - | - | 2.90 | 46.45 | 49.35 | 1.29 | - | - | - | - |
| 0230 | - | - | - | - | - | 2.88 | 43.45 | 52.40 | 1.28 | - | - | - | - |
| 0300 | - | - | - | - | - | 1.65 | 37.29 | 59.74 | 1.32 | - | - | - | - |
| 0330 | - | - | - | - | - | 0.97 | 33.44 | 62.01 | 3.57 | - | - | - | - |
| 0400 | - | - | - | - | - | 0.97 | 25.65 | 66.56 | 6.82 | - | - | - | - |
| 0430 | - | - | - | - | - | 0.98 | 22.30 | 66.56 | 10.16 | - | - | - | - |
| 0500 | - | - | - | - | - | 0.32 | 18.83 | 64.94 | 15.91 | - | - | - | - |
| 0530 | - | - | - | - | - | 0.33 | 15.69 | 60.46 | 23.20 | 0.33 | - | - | - |
| 0600 | - | - | - | - | - | 0.32 | 13.64 | 55.19 | 29.55 | 1.30 | - | - | - |
| 0630 | - | - | - | - | - | 0.32 | 10.06 | 49.03 | 37.66 | 2.92 | - | - | - |
| 0700 | - | - | - | - | - | - | 8.20 | 42.95 | 43.93 | 4.92 | - | - | - |
| 0730 | - | - | - | - | - | - | 7.17 | 38.44 | 47.56 | 6.84 | - | - | - |
| 0800 | - | - | - | - | - | - | 6.56 | 32.46 | 49.84 | 11.15 | - | - | - |
| 0830 | - | - | - | - | - | - | 5.57 | 28.20 | 50.16 | 15.74 | 0.33 | - | - |
| 0900 | - | - | - | - | - | - | 3.92 | 24.18 | 49.67 | 21.90 | 0.33 | - | - |
| 0930 | - | - | - | - | - | - | 3.65 | 22.26 | 48.50 | 23.59 | 1.99 | - | - |
| 1000 | - | - | - | - | - | - | 3.68 | 21.40 | 43.48 | 29.43 | 2.01 | - | - |
| 1030 | - | - | - | - | - | - | 2.98 | 19.87 | 45.36 | 28.48 | 3.31 | - | - |
| 1100 | - | - | - | - | - | - | 3.01 | 17.06 | 45.48 | 30.77 | 3.68 | - | - |
| 1130 | - | - | - | - | - | - | 2.62 | 17.05 | 47.21 | 29.18 | 3.93 | - | - |
| 1200 | - | - | - | - | - | - | 3.29 | 17.43 | 42.76 | 32.57 | 3.95 | - | - |
| 1230 | - | - | - | - | - | - | 3.00 | 18.33 | 44.00 | 31.00 | 3.67 | - | - |
| 1300 | - | - | - | - | - | - | 2.64 | 20.13 | 42.57 | 30.36 | 4.29 | - | - |
| 1330 | - | - | - | - | - | - | 3.00 | 22.67 | 44.33 | 27.33 | 2.67 | - | - |
| 1400 | - | - | - | - | - | - | 2.66 | 26.25 | 44.85 | 23.92 | 2.33 | - | - |
| 1430 | - | - | - | - | - | - | 3.95 | 27.63 | 46.05 | 21.05 | 1.32 | - | - |
| 1500 | - | - | - | - | - | - | 4.29 | 30.36 | 47.52 | 17.49 | 0.33 | - | - |
| 1530 | - | - | - | - | - | - | 5.57 | 35.08 | 45.25 | 13.77 | 0.33 | - | - |
| 1600 | - | - | - | - | - | - | 6.58 | 39.47 | 44.08 | 9.87 | - | - | - |
| 1630 | - | - | - | - | - | - | 8.79 | 43.32 | 41.69 | 6.19 | - | - | - |
| 1700 | - | - | - | - | - | - | 10.33 | 49.67 | 36.67 | 3.33 | - | - | - |
| 1730 | - | - | - | - | - | - | 11.15 | 51.80 | 34.10 | 2.95 | - | - | - |
| 1800 | - | - | - | - | - | - | 10.82 | 58.03 | 29.18 | 1.97 | - | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1830 | - | - | - | - | - | - | 13.11 | 60.98 | 24.59 | 1.31 | - | - | - |
| 1900 | - | - | - | - | - | - | 14.71 | 63.73 | 19.93 | 1.63 | - | - | - |
| 1930 | - | - | - | - | - | - | 17.42 | 62.90 | 18.71 | 0.97 | - | - | - |
| 2000 | - | - | - | - | - | - | 19.48 | 65.91 | 13.96 | 0.65 | - | - | - |
| 2030 | - | - | - | - | - | - | 20.98 | 67.54 | 11.48 | - | - | - | - |
| 2100 | - | - | - | - | - | 0.32 | 22.90 | 68.06 | 8.71 | - | - | - | - |
| 2130 | - | - | - | - | - | 0.65 | 24.03 | 68.18 | 7.14 | - | - | - | - |
| 2200 | - | - | - | - | - | 0.63 | 26.10 | 67.92 | 5.35 | - | - | - | - |
| 2230 | - | - | - | - | - | 0.65 | 27.36 | 67.43 | 4.56 | - | - | - | - |
| 2300 | - | - | - | - | - | 0.97 | 31.49 | 62.99 | 4.55 | - | - | - | - |
| 2330 | - | - | - | - | 0.33 | 1.64 | 33.44 | 60.98 | 3.61 | - | - | - | - |
| MEAN | - | - | - | - | 0.01 | 0.54 | 16.80 | 46.56 | 26.45 | 8.93 | 0.71 | - | - |

Min temperature 0º to 4º (time 2330 UTC) – 0.33%

Max temperature 30º to 34º (time 1300 UTC) – 4.29%

Mean dominating temperature 15º to 19º – 46.56%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

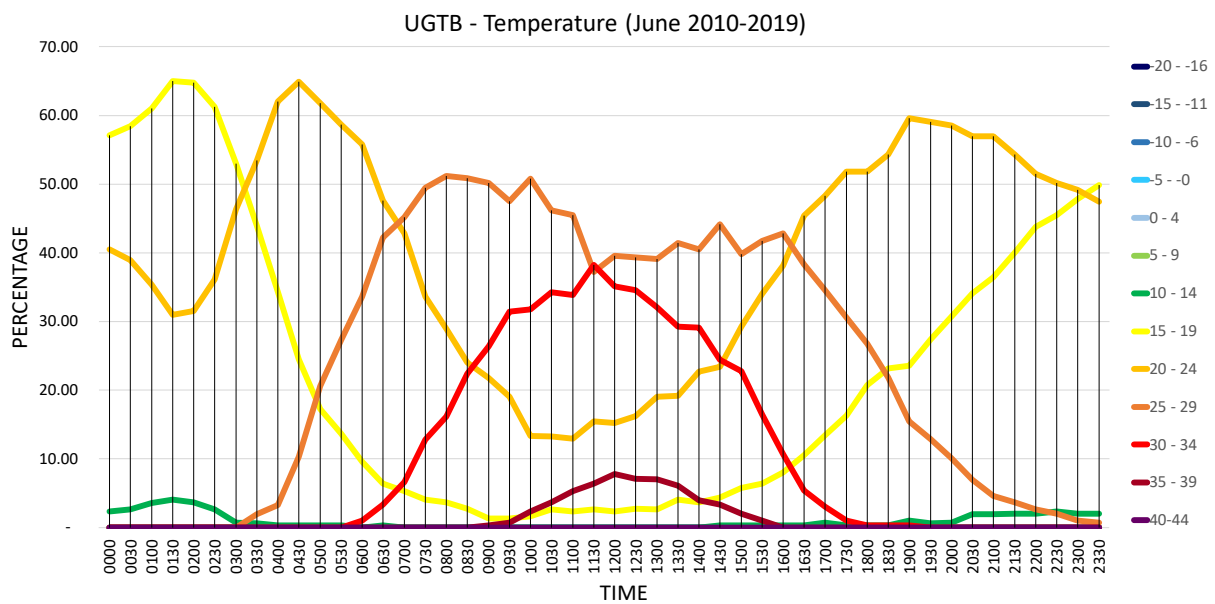
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | - | 2.33 | 57.14 | 40.53 | - | - | - | - |
| 0030 | - | - | - | - | - | - | 2.64 | 58.42 | 38.94 | - | - | - | - |
| 0100 | - | - | - | - | - | - | 3.63 | 61.06 | 35.31 | - | - | - | - |
| 0130 | - | - | - | - | - | - | 4.04 | 64.98 | 30.98 | - | - | - | - |
| 0200 | - | - | - | - | - | - | 3.65 | 64.78 | 31.56 | - | - | - | - |
| 0230 | - | - | - | - | - | - | 2.65 | 61.26 | 36.09 | - | - | - | - |
| 0300 | - | - | - | - | - | - | 0.67 | 53.00 | 46.33 | - | - | - | - |
| 0330 | - | - | - | - | - | - | 0.66 | 43.89 | 53.47 | 1.98 | - | - | - |
| 0400 | - | - | - | - | - | - | 0.33 | 34.32 | 62.05 | 3.30 | - | - | - |
| 0430 | - | - | - | - | - | - | 0.33 | 24.50 | 64.90 | 10.26 | - | - | - |
| 0500 | - | - | - | - | - | - | 0.33 | 17.28 | 61.79 | 20.60 | - | - | - |
| 0530 | - | - | - | - | - | - | 0.33 | 13.67 | 58.67 | 27.33 | - | - | - |
| 0600 | - | - | - | - | - | - | - | 9.57 | 55.78 | 33.66 | 0.99 | - | - |
| 0630 | - | - | - | - | - | - | 0.34 | 6.42 | 47.64 | 42.23 | 3.38 | - | - |
| 0700 | - | - | - | - | - | - | - | 5.32 | 42.86 | 45.18 | 6.64 | - | - |
| 0730 | - | - | - | - | - | - | - | 4.04 | 33.67 | 49.49 | 12.79 | - | - |
| 0800 | - | - | - | - | - | - | - | 3.70 | 28.96 | 51.18 | 16.16 | - | - |
| 0830 | - | - | - | - | - | - | - | 2.71 | 24.07 | 50.85 | 22.37 | - | - |
| 0900 | - | - | - | - | - | - | - | 1.32 | 21.78 | 50.17 | 26.40 | 0.33 | - |
| 0930 | - | - | - | - | - | - | - | 1.34 | 19.06 | 47.49 | 31.44 | 0.67 | - |
| 1000 | - | - | - | - | - | - | - | 1.67 | 13.38 | 50.84 | 31.77 | 2.34 | - |
| 1030 | - | - | - | - | - | - | - | 2.66 | 13.29 | 46.18 | 34.22 | 3.65 | - |
| 1100 | - | - | - | - | - | - | - | 2.33 | 12.96 | 45.51 | 33.89 | 5.32 | - |
| 1130 | - | - | - | - | - | - | - | 2.68 | 15.44 | 37.25 | 38.26 | 6.38 | - |
| 1200 | - | - | - | - | - | - | - | 2.36 | 15.20 | 39.53 | 35.14 | 7.77 | - |
| 1230 | - | - | - | - | - | - | - | 2.71 | 16.27 | 39.32 | 34.58 | 7.12 | - |
| 1300 | - | - | - | - | - | - | - | 2.68 | 19.06 | 39.13 | 32.11 | 7.02 | - |
| 1330 | - | - | - | - | - | - | - | 4.04 | 19.19 | 41.41 | 29.29 | 6.06 | - |
| 1400 | - | - | - | - | - | - | - | 3.68 | 22.74 | 40.47 | 29.10 | 4.01 | - |
| 1430 | - | - | - | - | - | - | 0.33 | 4.35 | 23.41 | 44.15 | 24.41 | 3.34 | - |
| 1500 | - | - | - | - | - | - | 0.34 | 5.78 | 29.25 | 39.80 | 22.79 | 2.04 | - |
| 1530 | - | - | - | - | - | - | 0.34 | 6.40 | 34.01 | 41.75 | 16.50 | 1.01 | - |
| 1600 | - | - | - | - | - | - | 0.33 | 8.03 | 38.13 | 42.81 | 10.70 | - | - |
| 1630 | - | - | - | - | - | - | 0.34 | 10.51 | 45.42 | 38.31 | 5.42 | - | - |
| 1700 | - | - | - | - | - | - | 0.67 | 13.42 | 48.32 | 34.56 | 3.02 | - | - |
| 1730 | - | - | - | - | - | - | 0.33 | 16.28 | 51.83 | 30.56 | 1.00 | - | - |
| 1800 | - | - | - | - | - | - | 0.33 | 20.79 | 51.82 | 26.73 | 0.33 | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1830 | - | - | - | - | - | - | 0.33 | 23.18 | 54.30 | 21.85 | 0.33 | - | - |
| 1900 | - | - | - | - | - | - | 1.01 | 23.57 | 59.60 | 15.49 | 0.34 | - | - |
| 1930 | - | - | - | - | - | - | 0.66 | 27.39 | 59.08 | 12.87 | - | - | - |
| 2000 | - | - | - | - | - | - | 0.67 | 30.77 | 58.53 | 10.03 | - | - | - |
| 2030 | - | - | - | - | - | - | 1.99 | 34.11 | 56.95 | 6.95 | - | - | - |
| 2100 | - | - | - | - | - | - | 1.99 | 36.42 | 56.95 | 4.64 | - | - | - |
| 2130 | - | - | - | - | - | - | 2.00 | 40.00 | 54.33 | 3.67 | - | - | - |
| 2200 | - | - | - | - | - | - | 2.01 | 43.81 | 51.51 | 2.68 | - | - | - |
| 2230 | - | - | - | - | - | - | 2.34 | 45.48 | 50.17 | 2.01 | - | - | - |
| 2300 | - | - | - | - | - | - | 1.99 | 47.84 | 49.17 | 1.00 | - | - | - |
| 2330 | - | - | - | - | - | - | 2.02 | 49.83 | 47.47 | 0.67 | - | - | - |
| MEAN | - | - | - | - | - | - | 0.88 | 23.02 | 39.68 | 24.80 | 10.44 | 1.18 | - |

Min temperature 10º to 14º (time 0130 UTC) – 4.04%

Max temperature 35º to 39º (time 1200 UTC) – 7.77%

Mean dominating temperature 20º to 24º – 39.68%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

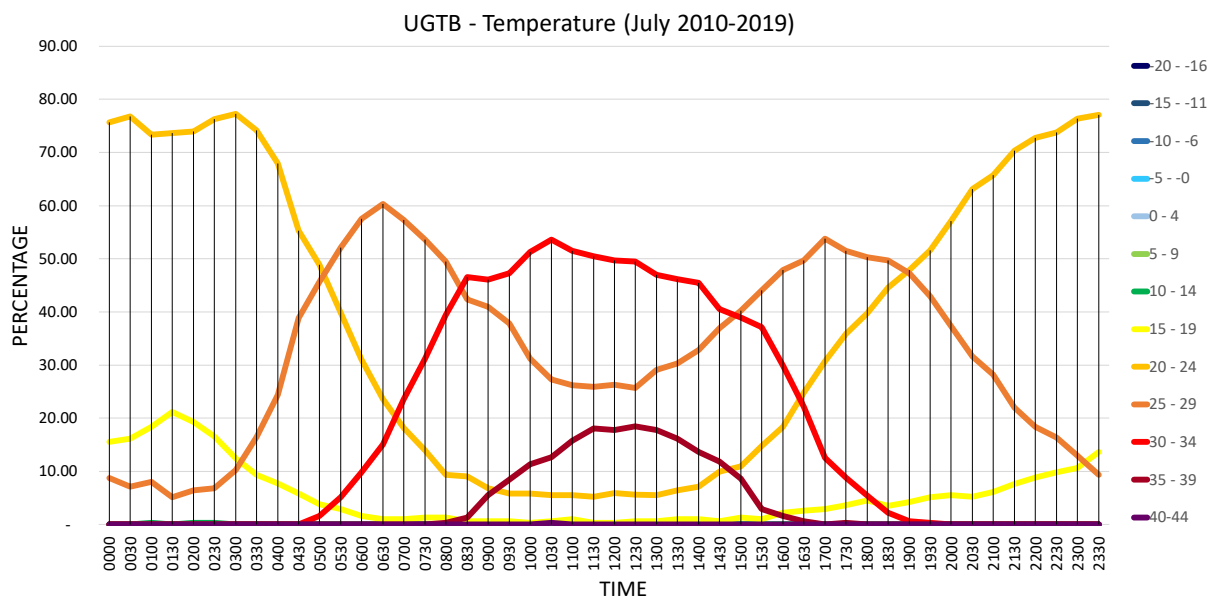
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | - | - | 15.58 | 75.65 | 8.77 | - | - | - |
| 0030 | - | - | - | - | - | - | - | 16.13 | 76.77 | 7.10 | - | - | - |
| 0100 | - | - | - | - | - | - | 0.32 | 18.33 | 73.31 | 8.04 | - | - | - |
| 0130 | - | - | - | - | - | - | - | 21.22 | 73.63 | 5.14 | - | - | - |
| 0200 | - | - | - | - | - | - | 0.32 | 19.29 | 73.95 | 6.43 | - | - | - |
| 0230 | - | - | - | - | - | - | 0.33 | 16.61 | 76.22 | 6.84 | - | - | - |
| 0300 | - | - | - | - | - | - | - | 12.50 | 77.24 | 10.26 | - | - | - |
| 0330 | - | - | - | - | - | - | - | 9.39 | 74.11 | 16.50 | - | - | - |
| 0400 | - | - | - | - | - | - | - | 7.69 | 67.95 | 24.36 | - | - | - |
| 0430 | - | - | - | - | - | - | - | 5.83 | 55.34 | 38.83 | - | - | - |
| 0500 | - | - | - | - | - | - | - | 3.86 | 48.87 | 45.66 | 1.61 | - | - |
| 0530 | - | - | - | - | - | - | - | 2.91 | 39.81 | 52.10 | 5.18 | - | - |
| 0600 | - | - | - | - | - | - | - | 1.63 | 31.05 | 57.52 | 9.80 | - | - |
| 0630 | - | - | - | - | - | - | - | 0.98 | 23.61 | 60.33 | 15.08 | - | - |
| 0700 | - | - | - | - | - | - | - | 0.97 | 18.12 | 57.28 | 23.62 | - | - |
| 0730 | - | - | - | - | - | - | - | 1.30 | 13.96 | 53.57 | 31.17 | - | - |
| 0800 | - | - | - | - | - | - | - | 1.29 | 9.39 | 49.51 | 39.48 | 0.32 | - |
| 0830 | - | - | - | - | - | - | - | 0.65 | 9.06 | 42.39 | 46.60 | 1.29 | - |
| 0900 | - | - | - | - | - | - | - | 0.65 | 6.82 | 40.91 | 46.10 | 5.52 | - |
| 0930 | - | - | - | - | - | - | - | 0.65 | 5.86 | 37.79 | 47.23 | 8.47 | - |
| 1000 | - | - | - | - | - | - | - | 0.32 | 5.84 | 31.17 | 51.30 | 11.36 | - |
| 1030 | - | - | - | - | - | - | - | 0.65 | 5.52 | 27.27 | 53.57 | 12.66 | 0.32 |
| 1100 | - | - | - | - | - | - | - | 0.98 | 5.57 | 26.23 | 51.48 | 15.74 | - |
| 1130 | - | - | - | - | - | - | - | 0.33 | 5.25 | 25.90 | 50.49 | 18.03 | - |
| 1200 | - | - | - | - | - | - | - | 0.33 | 5.92 | 26.32 | 49.67 | 17.76 | - |
| 1230 | - | - | - | - | - | - | - | 0.66 | 5.61 | 25.74 | 49.50 | 18.48 | - |
| 1300 | - | - | - | - | - | - | - | 0.65 | 5.50 | 29.13 | 46.93 | 17.80 | - |
| 1330 | - | - | - | - | - | - | - | 0.97 | 6.45 | 30.32 | 46.13 | 16.13 | - |
| 1400 | - | - | - | - | - | - | - | 0.97 | 7.14 | 32.79 | 45.45 | 13.64 | - |
| 1430 | - | - | - | - | - | - | - | 0.64 | 9.97 | 36.98 | 40.51 | 11.90 | - |
| 1500 | - | - | - | - | - | - | - | 1.29 | 10.93 | 40.19 | 38.91 | 8.68 | - |
| 1530 | - | - | - | - | - | - | - | 0.99 | 14.80 | 44.08 | 37.17 | 2.96 | - |
| 1600 | - | - | - | - | - | - | - | 2.25 | 18.33 | 47.91 | 29.90 | 1.61 | - |
| 1630 | - | - | - | - | - | - | - | 2.65 | 24.83 | 49.67 | 22.19 | 0.66 | - |
| 1700 | - | - | - | - | - | - | - | 2.97 | 30.69 | 53.80 | 12.54 | - | - |
| 1730 | - | - | - | - | - | - | - | 3.58 | 35.83 | 51.47 | 8.79 | 0.33 | - |
| 1800 | - | - | - | - | - | - | - | 4.49 | 39.74 | 50.32 | 5.45 | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1830 | - | - | - | - | - | - | - | 3.55 | 44.52 | 49.68 | 2.26 | - | - |
| 1900 | - | - | - | - | - | - | - | 4.21 | 47.90 | 47.25 | 0.65 | - | - |
| 1930 | - | - | - | - | - | - | - | 5.16 | 51.61 | 42.90 | 0.32 | - | - |
| 2000 | - | - | - | - | - | - | - | 5.52 | 57.14 | 37.34 | - | - | - |
| 2030 | - | - | - | - | - | - | - | 5.26 | 63.16 | 31.58 | - | - | - |
| 2100 | - | - | - | - | - | - | - | 6.09 | 65.71 | 28.21 | - | - | - |
| 2130 | - | - | - | - | - | - | - | 7.64 | 70.38 | 21.97 | - | - | - |
| 2200 | - | - | - | - | - | - | - | 8.88 | 72.70 | 18.42 | - | - | - |
| 2230 | - | - | - | - | - | - | - | 9.84 | 73.77 | 16.39 | - | - | - |
| 2300 | - | - | - | - | - | - | - | 10.68 | 76.38 | 12.94 | - | - | - |
| 2330 | - | - | - | - | - | - | - | 13.62 | 77.08 | 9.30 | - | - | - |
| MEAN | - | - | - | - | - | - | 0.02 | 5.48 | 39.00 | 32.79 | 18.89 | 3.81 | 0.01 |

Min temperature 10º to 14º (time 0230 UTC) – 0.33%

Max temperature 40º to 44º (time 1030 UTC) – 0.32%

Mean dominating temperature 20º to 24º – 39.00%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

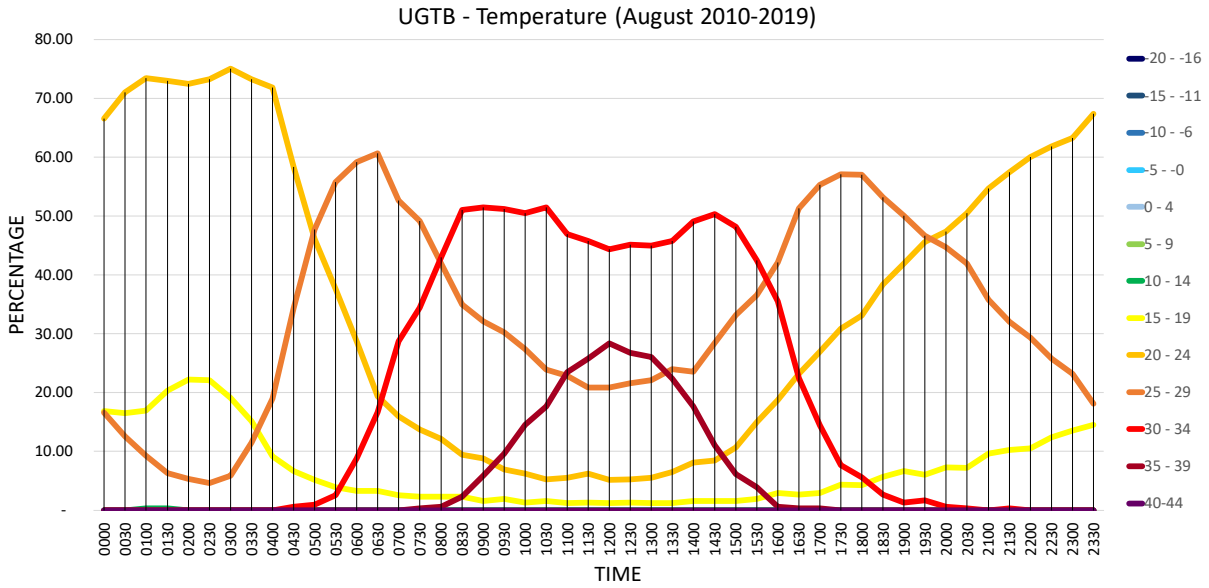
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | - | - | 16.89 | 66.55 | 16.55 | - | - | - |
| 0030 | - | - | - | - | - | - | - | 16.50 | 70.96 | 12.54 | - | - | - |
| 0100 | - | - | - | - | - | - | 0.33 | 16.94 | 73.42 | 9.30 | - | - | - |
| 0130 | - | - | - | - | - | - | 0.33 | 20.33 | 73.00 | 6.33 | - | - | - |
| 0200 | - | - | - | - | - | - | - | 22.22 | 72.39 | 5.39 | - | - | - |
| 0230 | - | - | - | - | - | - | - | 22.11 | 73.27 | 4.62 | - | - | - |
| 0300 | - | - | - | - | - | - | - | 19.08 | 75.00 | 5.92 | - | - | - |
| 0330 | - | - | - | - | - | - | - | 15.18 | 73.27 | 11.55 | - | - | - |
| 0400 | - | - | - | - | - | - | - | 9.18 | 71.80 | 19.02 | - | - | - |
| 0430 | - | - | - | - | - | - | - | 6.67 | 58.33 | 34.33 | 0.67 | - | - |
| 0500 | - | - | - | - | - | - | - | 5.16 | 46.13 | 47.74 | 0.97 | - | - |
| 0530 | - | - | - | - | - | - | - | 3.96 | 37.62 | 55.78 | 2.64 | - | - |
| 0600 | - | - | - | - | - | - | - | 3.27 | 28.76 | 59.15 | 8.82 | - | - |
| 0630 | - | - | - | - | - | - | - | 3.28 | 19.34 | 60.66 | 16.72 | - | - |
| 0700 | - | - | - | - | - | - | - | 2.61 | 16.01 | 52.61 | 28.76 | - | - |
| 0730 | - | - | - | - | - | - | - | 2.30 | 13.77 | 49.18 | 34.43 | 0.33 | - |
| 0800 | - | - | - | - | - | - | - | 2.30 | 12.13 | 41.97 | 42.95 | 0.66 | - |
| 0830 | - | - | - | - | - | - | - | 2.29 | 9.48 | 34.97 | 50.98 | 2.29 | - |
| 0900 | - | - | - | - | - | - | - | 1.64 | 8.85 | 32.13 | 51.48 | 5.90 | - |
| 0930 | - | - | - | - | - | - | - | 1.99 | 6.98 | 30.23 | 51.16 | 9.63 | - |
| 1000 | - | - | - | - | - | - | - | 1.32 | 6.27 | 27.39 | 50.50 | 14.52 | - |
| 1030 | - | - | - | - | - | - | - | 1.64 | 5.25 | 23.93 | 51.48 | 17.70 | - |
| 1100 | - | - | - | - | - | - | - | 1.30 | 5.54 | 22.80 | 46.91 | 23.45 | - |
| 1130 | - | - | - | - | - | - | - | 1.31 | 6.21 | 20.92 | 45.75 | 25.82 | - |
| 1200 | - | - | - | - | - | - | - | 1.30 | 5.21 | 20.85 | 44.30 | 28.34 | - |
| 1230 | - | - | - | - | - | - | - | 1.31 | 5.23 | 21.57 | 45.10 | 26.80 | - |
| 1300 | - | - | - | - | - | - | - | 1.30 | 5.54 | 22.15 | 44.95 | 26.06 | - |
| 1330 | - | - | - | - | - | - | - | 1.30 | 6.49 | 24.03 | 45.78 | 22.40 | - |
| 1400 | - | - | - | - | - | - | - | 1.63 | 8.17 | 23.53 | 49.02 | 17.65 | - |
| 1430 | - | - | - | - | - | - | - | 1.63 | 8.50 | 28.43 | 50.33 | 11.11 | - |
| 1500 | - | - | - | - | - | - | - | 1.63 | 10.75 | 33.22 | 48.21 | 6.19 | - |
| 1530 | - | - | - | - | - | - | - | 1.96 | 15.03 | 36.60 | 42.48 | 3.92 | - |
| 1600 | - | - | - | - | - | - | - | 2.96 | 18.75 | 42.11 | 35.53 | 0.66 | - |
| 1630 | - | - | - | - | - | - | - | 2.65 | 23.18 | 51.32 | 22.52 | 0.33 | - |
| 1700 | - | - | - | - | - | - | - | 2.96 | 26.97 | 55.26 | 14.47 | 0.33 | - |
| 1730 | - | - | - | - | - | - | - | 4.36 | 30.87 | 57.05 | 7.72 | - | - |
| 1800 | - | - | - | - | - | - | - | 4.30 | 33.11 | 56.95 | 5.63 | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1830 | - | - | - | - | - | - | - | 5.72 | 38.38 | 53.20 | 2.69 | - | - |
| 1900 | - | - | - | - | - | - | - | 6.71 | 41.95 | 50.00 | 1.34 | - | - |
| 1930 | - | - | - | - | - | - | - | 6.08 | 45.61 | 46.62 | 1.69 | - | - |
| 2000 | - | - | - | - | - | - | - | 7.28 | 47.35 | 44.70 | 0.66 | - | - |
| 2030 | - | - | - | - | - | - | - | 7.26 | 50.50 | 41.91 | 0.33 | - | - |
| 2100 | - | - | - | - | - | - | - | 9.60 | 54.64 | 35.76 | - | - | - |
| 2130 | - | - | - | - | - | - | - | 10.23 | 57.43 | 32.01 | 0.33 | - | - |
| 2200 | - | - | - | - | - | - | - | 10.56 | 60.07 | 29.37 | - | - | - |
| 2230 | - | - | - | - | - | - | - | 12.42 | 61.76 | 25.82 | - | - | - |
| 2300 | - | - | - | - | - | - | - | 13.58 | 63.25 | 23.18 | - | - | - |
| 2330 | - | - | - | - | - | - | - | 14.52 | 67.33 | 18.15 | - | - | - |
| MEAN | - | - | - | - | - | - | 0.01 | 6.93 | 35.76 | 32.48 | 19.73 | 5.09 | - |

Min temperature 10º to 14º (time 0100 and 0130 UTC) – each 0.33%

Max temperature 35º to 39º (time 1200 UTC) – 28.34%

Mean dominating temperature 20º to 24º – 35.76%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

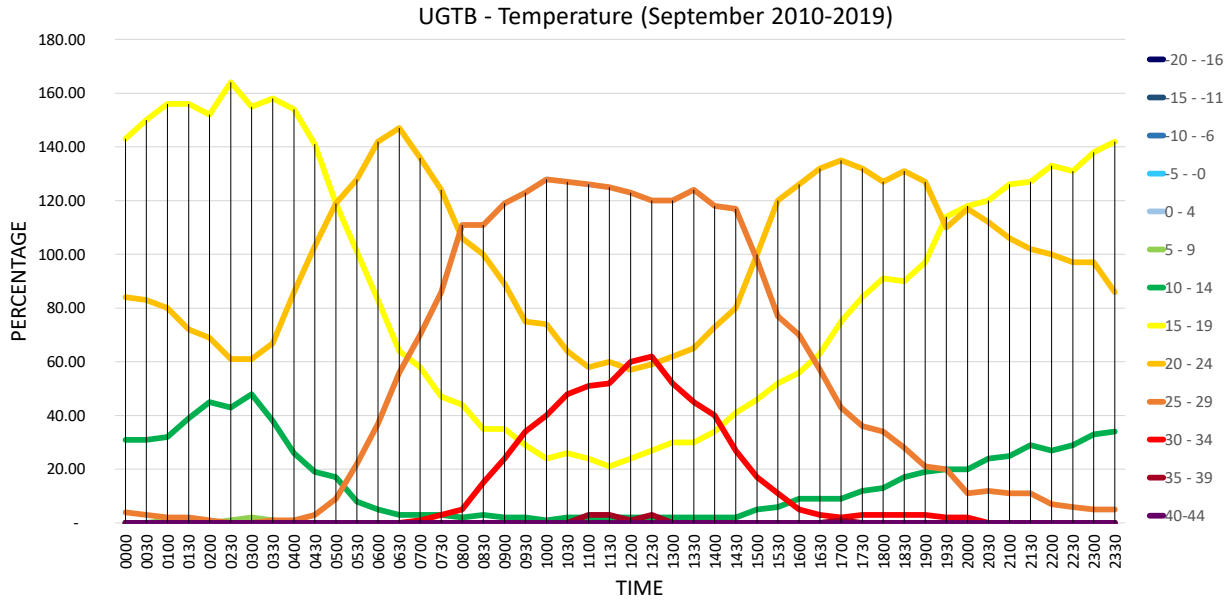
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | 0.34 | 11.99 | 56.16 | 30.14 | 1.37 | - | - | - |
| 0030 | - | - | - | - | - | 0.34 | 12.12 | 57.24 | 29.29 | 1.01 | - | - | - |
| 0100 | - | - | - | - | - | 0.66 | 12.25 | 58.94 | 27.48 | 0.66 | - | - | - |
| 0130 | - | - | - | - | - | 0.66 | 14.57 | 60.26 | 23.84 | 0.66 | - | - | - |
| 0200 | - | - | - | - | - | 0.34 | 17.17 | 58.92 | 23.23 | 0.34 | - | - | - |
| 0230 | - | - | - | - | - | 1.00 | 16.00 | 62.67 | 20.33 | - | - | - | - |
| 0300 | - | - | - | - | - | 1.02 | 17.97 | 60.34 | 20.68 | - | - | - | - |
| 0330 | - | - | - | - | - | 0.68 | 14.58 | 61.69 | 22.71 | 0.34 | - | - | - |
| 0400 | - | - | - | - | - | - | 10.44 | 59.93 | 29.29 | 0.34 | - | - | - |
| 0430 | - | - | - | - | - | - | 7.43 | 55.41 | 36.15 | 1.01 | - | - | - |
| 0500 | - | - | - | - | - | - | 6.40 | 48.48 | 42.09 | 3.03 | - | - | - |
| 0530 | - | - | - | - | - | - | 3.45 | 40.00 | 48.97 | 7.59 | - | - | - |
| 0600 | - | - | - | - | - | - | 1.68 | 33.00 | 52.86 | 12.46 | - | - | - |
| 0630 | - | - | - | - | - | - | 1.33 | 26.00 | 54.00 | 18.67 | - | - | - |
| 0700 | - | - | - | - | - | - | 1.01 | 23.83 | 51.34 | 23.49 | 0.34 | - | - |
| 0730 | - | - | - | - | - | - | 1.03 | 19.52 | 48.63 | 29.79 | 1.03 | - | - |
| 0800 | - | - | - | - | - | - | 0.67 | 16.78 | 41.95 | 38.93 | 1.68 | - | - |
| 0830 | - | - | - | - | - | - | 1.02 | 13.61 | 40.82 | 39.46 | 5.10 | - | - |
| 0900 | - | - | - | - | - | - | 0.67 | 13.04 | 36.12 | 42.14 | 8.03 | - | - |
| 0930 | - | - | - | - | - | - | 0.68 | 11.22 | 31.97 | 44.56 | 11.56 | - | - |
| 1000 | - | - | - | - | - | - | 0.34 | 9.09 | 30.30 | 46.46 | 13.80 | - | - |
| 1030 | - | - | - | - | - | - | 0.67 | 10.44 | 25.59 | 46.80 | 16.50 | - | - |
| 1100 | - | - | - | - | - | - | 0.68 | 9.18 | 24.83 | 46.26 | 18.03 | 1.02 | - |
| 1130 | - | - | - | - | - | - | 0.68 | 8.19 | 25.60 | 46.08 | 18.43 | 1.02 | - |
| 1200 | - | - | - | - | - | - | 0.67 | 10.07 | 23.15 | 45.30 | 20.47 | 0.34 | - |
| 1230 | - | - | - | - | - | - | 0.66 | 9.90 | 24.75 | 42.90 | 20.79 | 0.99 | - |
| 1300 | - | - | - | - | - | - | 0.68 | 11.49 | 25.68 | 43.92 | 18.24 | - | - |
| 1330 | - | - | - | - | - | - | 0.68 | 12.16 | 26.01 | 45.95 | 15.20 | - | - |
| 1400 | - | - | - | - | - | - | 0.67 | 13.80 | 28.96 | 43.10 | 13.47 | - | - |
| 1430 | - | - | - | - | - | - | 1.01 | 15.82 | 32.66 | 41.41 | 9.09 | - | - |
| 1500 | - | - | - | - | - | - | 2.03 | 17.91 | 39.86 | 34.46 | 5.74 | - | - |
| 1530 | - | - | - | - | - | - | 2.36 | 20.61 | 46.28 | 27.03 | 3.72 | - | - |
| 1600 | - | - | - | - | - | - | 3.72 | 22.30 | 47.97 | 24.32 | 1.69 | - | - |
| 1630 | - | - | - | - | - | - | 3.74 | 25.85 | 50.00 | 19.39 | 1.02 | - | - |
| 1700 | - | - | - | - | - | - | 3.73 | 29.83 | 50.85 | 14.58 | 0.68 | 0.34 | - |
| 1730 | - | - | - | - | - | - | 4.71 | 34.01 | 48.15 | 12.12 | 1.01 | - | - |
| 1800 | - | - | - | - | - | - | 5.37 | 35.91 | 46.31 | 11.41 | 1.01 | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1830 | - | - | - | - | - | - | 6.35 | 36.12 | 47.16 | 9.36 | 1.00 | - | - |
| 1900 | - | - | - | - | - | - | 7.41 | 38.72 | 45.79 | 7.07 | 1.01 | - | - |
| 1930 | - | - | - | - | - | - | 7.77 | 44.26 | 40.54 | 6.76 | 0.68 | - | - |
| 2000 | - | - | - | - | - | - | 7.72 | 45.64 | 42.28 | 3.69 | 0.67 | - | - |
| 2030 | - | - | - | - | - | - | 9.40 | 45.97 | 40.60 | 4.03 | - | - | - |
| 2100 | - | - | - | - | - | - | 10.07 | 47.99 | 38.26 | 3.69 | - | - | - |
| 2130 | - | - | - | - | - | - | 11.37 | 48.83 | 36.12 | 3.68 | - | - | - |
| 2200 | - | - | - | - | - | - | 10.70 | 50.84 | 36.12 | 2.34 | - | - | - |
| 2230 | - | - | - | - | - | - | 11.60 | 51.54 | 34.81 | 2.05 | - | - | - |
| 2300 | - | - | - | - | - | - | 13.20 | 52.15 | 33.00 | 1.65 | - | - | - |
| 2330 | - | - | - | - | - | 0.34 | 13.09 | 54.70 | 30.20 | 1.68 | - | - | - |
| MEAN | - | - | - | - | - | 0.11 | 6.13 | 34.41 | 36.11 | 18.79 | 4.37 | 0.08 | - |

Min temperature 5º to 9º (time 0300 UTC) – 1.02%

Max temperature 35º to 39º (time 1100 and 1130 UTC) each 1.02%

Mean dominating temperature 20 to 24º – 36.11%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

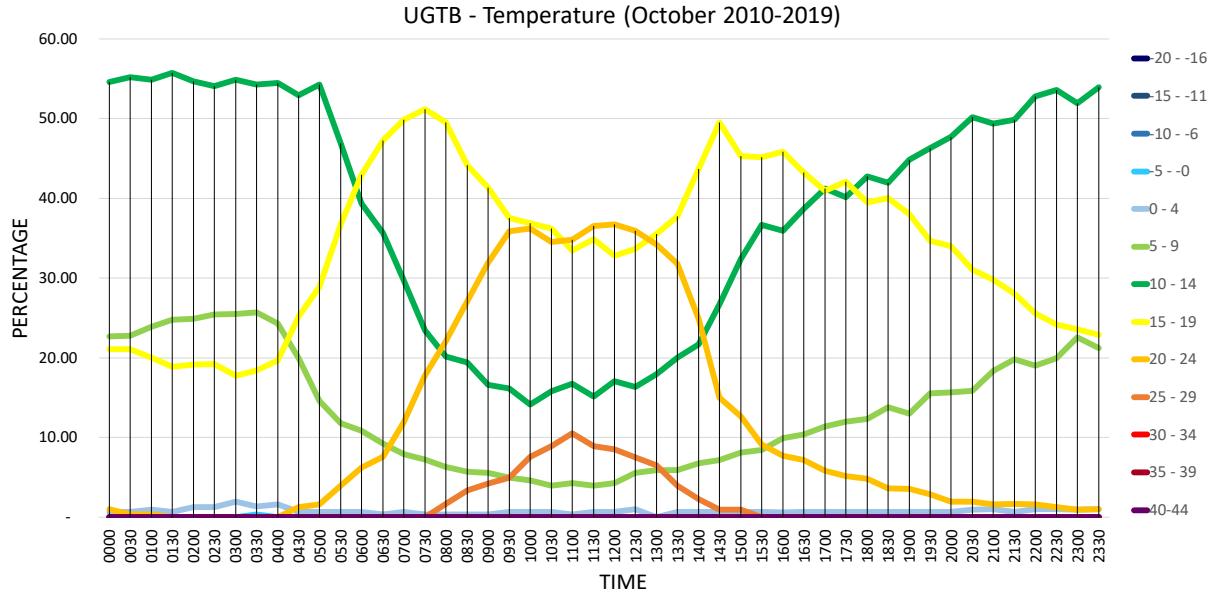
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | 0.66 | 22.70 | 54.61 | 21.05 | 0.99 | - | - | - | - |
| 0030 | - | - | - | - | 0.65 | 22.73 | 55.19 | 21.10 | 0.32 | - | - | - | - |
| 0100 | - | - | - | - | 0.97 | 23.87 | 54.84 | 20.00 | 0.32 | - | - | - | - |
| 0130 | - | - | - | - | 0.65 | 24.76 | 55.70 | 18.89 | - | - | - | - | - |
| 0200 | - | - | - | - | 1.28 | 24.92 | 54.63 | 19.17 | - | - | - | - | - |
| 0230 | - | - | - | - | 1.30 | 25.41 | 54.07 | 19.22 | - | - | - | - | - |
| 0300 | - | - | - | - | 1.94 | 25.48 | 54.84 | 17.74 | - | - | - | - | - |
| 0330 | - | - | - | 0.33 | 1.32 | 25.66 | 54.28 | 18.42 | - | - | - | - | - |
| 0400 | - | - | - | - | 1.64 | 24.26 | 54.43 | 19.67 | - | - | - | - | - |
| 0430 | - | - | - | - | 0.65 | 19.93 | 52.94 | 25.16 | 1.31 | - | - | - | - |
| 0500 | - | - | - | - | 0.65 | 14.61 | 54.22 | 28.90 | 1.62 | - | - | - | - |
| 0530 | - | - | - | - | 0.66 | 11.80 | 46.89 | 36.72 | 3.93 | - | - | - | - |
| 0600 | - | - | - | - | 0.66 | 10.82 | 39.34 | 42.95 | 6.23 | - | - | - | - |
| 0630 | - | - | - | - | 0.33 | 9.24 | 35.64 | 47.19 | 7.59 | - | - | - | - |
| 0700 | - | - | - | - | 0.66 | 7.92 | 29.70 | 49.83 | 11.88 | - | - | - | - |
| 0730 | - | - | - | - | 0.33 | 7.26 | 23.43 | 51.16 | 17.82 | - | - | - | - |
| 0800 | - | - | - | - | 0.33 | 6.27 | 20.13 | 49.50 | 22.11 | 1.65 | - | - | - |
| 0830 | - | - | - | - | 0.33 | 5.69 | 19.40 | 44.15 | 27.09 | 3.34 | - | - | - |
| 0900 | - | - | - | - | 0.33 | 5.54 | 16.61 | 41.37 | 31.92 | 4.23 | - | - | - |
| 0930 | - | - | - | - | 0.66 | 4.93 | 16.12 | 37.50 | 35.86 | 4.93 | - | - | - |
| 1000 | - | - | - | - | 0.66 | 4.61 | 14.14 | 36.84 | 36.18 | 7.57 | - | - | - |
| 1030 | - | - | - | - | 0.66 | 3.95 | 15.79 | 36.18 | 34.54 | 8.88 | - | - | - |
| 1100 | - | - | - | - | 0.33 | 4.26 | 16.72 | 33.44 | 34.75 | 10.49 | - | - | - |
| 1130 | - | - | - | - | 0.66 | 3.95 | 15.13 | 34.87 | 36.51 | 8.88 | - | - | - |
| 1200 | - | - | - | - | 0.66 | 4.26 | 17.05 | 32.79 | 36.72 | 8.52 | - | - | - |
| 1230 | - | - | - | - | 0.98 | 5.56 | 16.34 | 33.66 | 35.95 | 7.52 | - | - | - |
| 1300 | - | - | - | - | - | 5.86 | 17.92 | 35.50 | 34.20 | 6.51 | - | - | - |
| 1330 | - | - | - | - | 0.66 | 5.90 | 20.00 | 37.70 | 31.80 | 3.93 | - | - | - |
| 1400 | - | - | - | - | 0.65 | 6.80 | 21.68 | 43.69 | 24.92 | 2.27 | - | - | - |
| 1430 | - | - | - | - | 0.65 | 7.17 | 26.71 | 49.51 | 14.98 | 0.98 | - | - | - |
| 1500 | - | - | - | - | 0.65 | 8.09 | 32.36 | 45.31 | 12.62 | 0.97 | - | - | - |
| 1530 | - | - | - | - | 0.65 | 8.44 | 36.69 | 45.13 | 9.09 | - | - | - | - |
| 1600 | - | - | - | - | 0.64 | 9.94 | 35.90 | 45.83 | 7.69 | - | - | - | - |
| 1630 | - | - | - | - | 0.65 | 10.39 | 38.64 | 43.18 | 7.14 | - | - | - | - |
| 1700 | - | - | - | - | 0.65 | 11.36 | 41.23 | 40.91 | 5.84 | - | - | - | - |
| 1730 | - | - | - | - | 0.65 | 11.97 | 40.13 | 42.07 | 5.18 | - | - | - | - |
| 1800 | - | - | - | - | 0.65 | 12.30 | 42.72 | 39.48 | 4.85 | - | - | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1830 | - | - | - | - | 0.66 | 13.77 | 41.97 | 40.00 | 3.61 | - | - | - | - |
| 1900 | - | - | - | - | 0.65 | 12.99 | 44.81 | 37.99 | 3.57 | - | - | - | - |
| 1930 | - | - | - | - | 0.65 | 15.53 | 46.28 | 34.63 | 2.91 | - | - | - | - |
| 2000 | - | - | - | - | 0.65 | 15.69 | 47.71 | 33.99 | 1.96 | - | - | - | - |
| 2030 | - | - | - | - | 0.97 | 15.86 | 50.16 | 31.07 | 1.94 | - | - | - | - |
| 2100 | - | - | - | - | 0.98 | 18.30 | 49.35 | 29.74 | 1.63 | - | - | - | - |
| 2130 | - | - | - | - | 0.66 | 19.80 | 49.83 | 28.05 | 1.65 | - | - | - | - |
| 2200 | - | - | - | - | 0.98 | 19.02 | 52.79 | 25.57 | 1.64 | - | - | - | - |
| 2230 | - | - | - | - | 0.98 | 19.93 | 53.59 | 24.18 | 1.31 | - | - | - | - |
| 2300 | - | - | - | - | 0.97 | 22.58 | 51.94 | 23.55 | 0.97 | - | - | - | - |
| 2330 | - | - | - | - | 0.98 | 21.24 | 53.92 | 22.88 | 0.98 | - | - | - | - |
| MEAN | - | - | - | 0.01 | 0.74 | 13.42 | 38.35 | 34.09 | 11.71 | 1.67 | - | - | - |

Min temperature -5º to 0º (time 0330 UTC) – 0.33%

Max temperature 25º to 29º (time 1100 UTC) – 10.49%

Mean dominating temperature 10º to 14º – 38.35%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

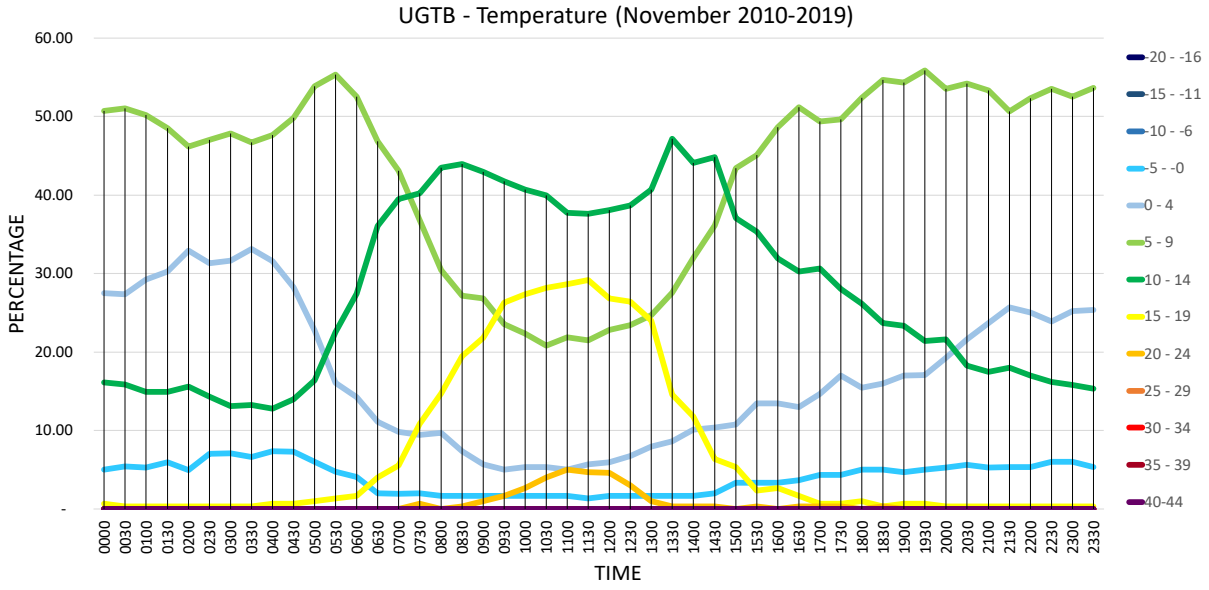
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | 5.03 | 27.52 | 50.67 | 16.11 | 0.67 | - | - | - | - | - |
| 0030 | - | - | - | 5.41 | 27.36 | 51.01 | 15.88 | 0.34 | - | - | - | - | - |
| 0100 | - | - | - | 5.32 | 29.24 | 50.17 | 14.95 | 0.33 | - | - | - | - | - |
| 0130 | - | - | - | 5.98 | 30.23 | 48.50 | 14.95 | 0.33 | - | - | - | - | - |
| 0200 | - | - | - | 4.98 | 32.89 | 46.18 | 15.61 | 0.33 | - | - | - | - | - |
| 0230 | - | - | - | 7.00 | 31.33 | 47.00 | 14.33 | 0.33 | - | - | - | - | - |
| 0300 | - | - | - | 7.07 | 31.65 | 47.81 | 13.13 | 0.34 | - | - | - | - | - |
| 0330 | - | - | - | 6.62 | 33.11 | 46.69 | 13.25 | 0.33 | - | - | - | - | - |
| 0400 | - | - | - | 7.38 | 31.54 | 47.65 | 12.75 | 0.67 | - | - | - | - | - |
| 0430 | - | - | - | 7.31 | 28.24 | 49.83 | 13.95 | 0.66 | - | - | - | - | - |
| 0500 | - | - | - | 6.02 | 22.74 | 53.85 | 16.39 | 1.00 | - | - | - | - | - |
| 0530 | - | - | - | 4.78 | 16.04 | 55.29 | 22.53 | 1.37 | - | - | - | - | - |
| 0600 | - | - | - | 4.07 | 14.24 | 52.54 | 27.46 | 1.69 | - | - | - | - | - |
| 0630 | - | - | - | 2.02 | 11.11 | 46.80 | 36.03 | 4.04 | - | - | - | - | - |
| 0700 | - | - | - | 1.97 | 9.87 | 43.09 | 39.47 | 5.59 | - | - | - | - | - |
| 0730 | - | - | - | 2.03 | 9.46 | 36.82 | 40.20 | 10.81 | 0.68 | - | - | - | - |
| 0800 | - | - | - | 1.67 | 9.70 | 30.43 | 43.48 | 14.72 | - | - | - | - | - |
| 0830 | - | - | - | 1.68 | 7.38 | 27.18 | 43.96 | 19.46 | 0.34 | - | - | - | - |
| 0900 | - | - | - | 1.68 | 5.70 | 26.85 | 42.95 | 21.81 | 1.01 | - | - | - | - |
| 0930 | - | - | - | 1.68 | 5.05 | 23.57 | 41.75 | 26.26 | 1.68 | - | - | - | - |
| 1000 | - | - | - | 1.67 | 5.33 | 22.33 | 40.67 | 27.33 | 2.67 | - | - | - | - |
| 1030 | - | - | - | 1.68 | 5.37 | 20.81 | 39.93 | 28.19 | 4.03 | - | - | - | - |
| 1100 | - | - | - | 1.68 | 5.05 | 21.89 | 37.71 | 28.62 | 5.05 | - | - | - | - |
| 1130 | - | - | - | 1.34 | 5.70 | 21.48 | 37.58 | 29.19 | 4.70 | - | - | - | - |
| 1200 | - | - | - | 1.66 | 5.96 | 22.85 | 38.08 | 26.82 | 4.64 | - | - | - | - |
| 1230 | - | - | - | 1.69 | 6.78 | 23.39 | 38.64 | 26.44 | 3.05 | - | - | - | - |
| 1300 | - | - | - | 1.67 | 8.00 | 24.67 | 40.67 | 24.00 | 1.00 | - | - | - | - |
| 1330 | - | - | - | 1.66 | 8.64 | 27.57 | 47.18 | 14.62 | 0.33 | - | - | - | - |
| 1400 | - | - | - | 1.68 | 10.10 | 31.99 | 44.11 | 11.78 | 0.34 | - | - | - | - |
| 1430 | - | - | - | 2.01 | 10.37 | 36.12 | 44.82 | 6.35 | 0.33 | - | - | - | - |
| 1500 | - | - | - | 3.37 | 10.77 | 43.43 | 37.04 | 5.39 | - | - | - | - | - |
| 1530 | - | - | - | 3.37 | 13.47 | 45.12 | 35.35 | 2.36 | 0.34 | - | - | - | - |
| 1600 | - | - | - | 3.36 | 13.42 | 48.66 | 31.88 | 2.68 | - | - | - | - | - |
| 1630 | - | - | - | 3.65 | 12.96 | 51.16 | 30.23 | 1.66 | 0.33 | - | - | - | - |
| 1700 | - | - | - | 4.33 | 14.67 | 49.33 | 30.67 | 0.67 | 0.33 | - | - | - | - |
| 1730 | - | - | - | 4.33 | 17.00 | 49.67 | 28.00 | 0.67 | 0.33 | - | - | - | - |
| 1800 | - | - | - | 5.03 | 15.44 | 52.35 | 26.17 | 1.01 | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1830 | - | - | - | 5.00 | 16.00 | 54.67 | 23.67 | 0.33 | 0.33 | - | - | - | - |
| 1900 | - | - | - | 4.67 | 17.00 | 54.33 | 23.33 | 0.67 | - | - | - | - | - |
| 1930 | - | - | - | 5.02 | 17.06 | 55.85 | 21.40 | 0.67 | - | - | - | - | - |
| 2000 | - | - | - | 5.32 | 19.27 | 53.49 | 21.59 | 0.33 | - | - | - | - | - |
| 2030 | - | - | - | 5.65 | 21.59 | 54.15 | 18.27 | 0.33 | - | - | - | - | - |
| 2100 | - | - | - | 5.26 | 23.68 | 53.29 | 17.43 | 0.33 | - | - | - | - | - |
| 2130 | - | - | - | 5.33 | 25.67 | 50.67 | 18.00 | 0.33 | - | - | - | - | - |
| 2200 | - | - | - | 5.33 | 25.00 | 52.33 | 17.00 | 0.33 | - | - | - | - | - |
| 2230 | - | - | - | 6.06 | 23.91 | 53.54 | 16.16 | 0.34 | - | - | - | - | - |
| 2300 | - | - | - | 6.06 | 25.25 | 52.53 | 15.82 | 0.34 | - | - | - | - | - |
| 2330 | - | - | - | 5.33 | 25.33 | 53.67 | 15.33 | 0.33 | - | - | - | - | - |
| MEAN | - | - | - | 4.02 | 17.17 | 43.00 | 27.82 | 7.35 | 0.66 | - | - | - | - |

Min temperature -5º to -0º (time 0400 UTC) – 7.38%

Max temperature 20º to 24º (time 1100 UTC) – 5.05%

Mean dominating temperature 5º to 9º – 43.00%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGTB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

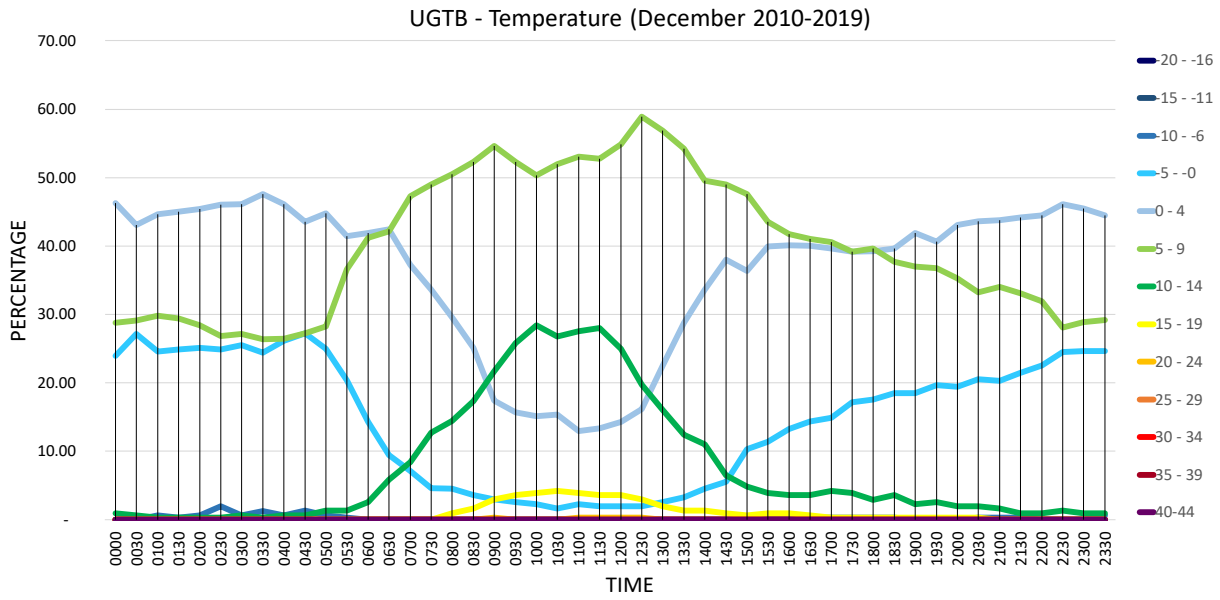
| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | 23.95 | 46.28 | 28.80 | 0.97 | - | - | - | - | - | - |
| 0030 | - | - | - | 27.18 | 43.04 | 29.13 | 0.65 | - | - | - | - | - | - |
| 0100 | - | - | 0.65 | 24.60 | 44.66 | 29.77 | 0.32 | - | - | - | - | - | - |
| 0130 | - | - | 0.32 | 24.92 | 45.05 | 29.39 | 0.32 | - | - | - | - | - | - |
| 0200 | - | - | 0.65 | 25.16 | 45.42 | 28.43 | 0.33 | - | - | - | - | - | - |
| 0230 | - | - | 1.92 | 24.92 | 46.01 | 26.84 | 0.32 | - | - | - | - | - | - |
| 0300 | - | - | 0.65 | 25.49 | 46.08 | 27.12 | 0.65 | - | - | - | - | - | - |
| 0330 | - | - | 1.29 | 24.44 | 47.59 | 26.37 | 0.32 | - | - | - | - | - | - |
| 0400 | - | - | 0.65 | 26.13 | 46.13 | 26.45 | 0.65 | - | - | - | - | - | - |
| 0430 | - | - | 1.30 | 27.27 | 43.51 | 27.27 | 0.65 | - | - | - | - | - | - |
| 0500 | - | - | 0.65 | 25.00 | 44.81 | 28.25 | 1.30 | - | - | - | - | - | - |
| 0530 | - | - | 0.32 | 20.39 | 41.42 | 36.57 | 1.29 | - | - | - | - | - | - |
| 0600 | - | - | - | 14.29 | 41.88 | 41.23 | 2.60 | - | - | - | - | - | - |
| 0630 | - | - | - | 9.48 | 42.48 | 42.16 | 5.88 | - | - | - | - | - | - |
| 0700 | - | - | - | 7.12 | 37.22 | 47.25 | 8.41 | - | - | - | - | - | - |
| 0730 | - | - | - | 4.58 | 33.66 | 49.02 | 12.75 | - | - | - | - | - | - |
| 0800 | - | - | - | 4.50 | 29.58 | 50.48 | 14.47 | 0.96 | - | - | - | - | - |
| 0830 | - | - | - | 3.59 | 25.16 | 52.29 | 17.32 | 1.63 | - | - | - | - | - |
| 0900 | - | - | - | 2.96 | 17.43 | 54.61 | 21.71 | 2.96 | 0.33 | - | - | - | - |
| 0930 | - | - | - | 2.61 | 15.69 | 52.29 | 25.82 | 3.59 | - | - | - | - | - |
| 1000 | - | - | - | 2.26 | 15.16 | 50.32 | 28.39 | 3.87 | - | - | - | - | - |
| 1030 | - | - | - | 1.63 | 15.36 | 51.96 | 26.80 | 4.25 | - | - | - | - | - |
| 1100 | - | - | - | 2.27 | 12.94 | 53.07 | 27.51 | 3.88 | 0.32 | - | - | - | - |
| 1130 | - | - | - | 1.95 | 13.36 | 52.77 | 28.01 | 3.58 | 0.33 | - | - | - | - |
| 1200 | - | - | - | 1.95 | 14.29 | 54.87 | 25.00 | 3.57 | 0.32 | - | - | - | - |
| 1230 | - | - | - | 1.97 | 16.12 | 58.88 | 19.74 | 2.96 | 0.33 | - | - | - | - |
| 1300 | - | - | - | 2.57 | 22.51 | 56.91 | 16.08 | 1.93 | - | - | - | - | - |
| 1330 | - | - | - | 3.27 | 28.76 | 54.25 | 12.42 | 1.31 | - | - | - | - | - |
| 1400 | - | - | - | 4.53 | 33.66 | 49.51 | 11.00 | 1.29 | - | - | - | - | - |
| 1430 | - | - | - | 5.52 | 37.99 | 49.03 | 6.49 | 0.97 | - | - | - | - | - |
| 1500 | - | - | 0.32 | 10.29 | 36.33 | 47.59 | 4.82 | 0.64 | - | - | - | - | - |
| 1530 | - | - | 0.32 | 11.36 | 39.94 | 43.51 | 3.90 | 0.97 | - | - | - | - | - |
| 1600 | - | - | 0.32 | 13.27 | 40.13 | 41.75 | 3.56 | 0.97 | - | - | - | - | - |
| 1630 | - | - | 0.33 | 14.33 | 40.07 | 41.04 | 3.58 | 0.65 | - | - | - | - | - |
| 1700 | - | - | 0.32 | 14.94 | 39.61 | 40.58 | 4.22 | 0.32 | - | - | - | - | - |
| 1730 | - | - | 0.32 | 17.15 | 39.16 | 39.16 | 3.88 | 0.32 | - | - | - | - | - |
| 1800 | - | - | 0.32 | 17.53 | 39.29 | 39.61 | 2.92 | 0.32 | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 1830 | - | - | 0.32 | 18.51 | 39.61 | 37.66 | 3.57 | 0.32 | - | - | - | - | - |
| 1900 | - | - | - | 18.51 | 41.88 | 37.01 | 2.27 | 0.32 | - | - | - | - | - |
| 1930 | - | - | - | 19.68 | 40.65 | 36.77 | 2.58 | 0.32 | - | - | - | - | - |
| 2000 | - | - | - | 19.42 | 43.04 | 35.28 | 1.94 | 0.32 | - | - | - | - | - |
| 2030 | - | - | 0.33 | 20.52 | 43.65 | 33.22 | 1.95 | 0.33 | - | - | - | - | - |
| 2100 | - | - | 0.33 | 20.26 | 43.79 | 33.99 | 1.63 | - | - | - | - | - | - |
| 2130 | - | - | 0.32 | 21.43 | 44.16 | 33.12 | 0.97 | - | - | - | - | - | - |
| 2200 | - | - | - | 22.58 | 44.52 | 31.94 | 0.97 | - | - | - | - | - | - |
| 2230 | - | - | - | 24.52 | 46.13 | 28.06 | 1.29 | - | - | - | - | - | - |
| 2300 | - | - | - | 24.68 | 45.45 | 28.90 | 0.97 | - | - | - | - | - | - |
| 2330 | - | - | 0.65 | 24.68 | 44.48 | 29.22 | 0.97 | - | - | - | - | - | - |
| MEAN | - | - | 0.26 | 14.81 | 36.38 | 40.06 | 7.57 | 0.89 | 0.03 | - | - | - | - |

Min temperature -10º to -6º (time 0230 UTC) – 1.92%

Max temperature 20º to 24º (time 0900, 1130 and 1230 UTC) – each 0.33%

Mean dominating temperature 5º to 9º – 40.06%



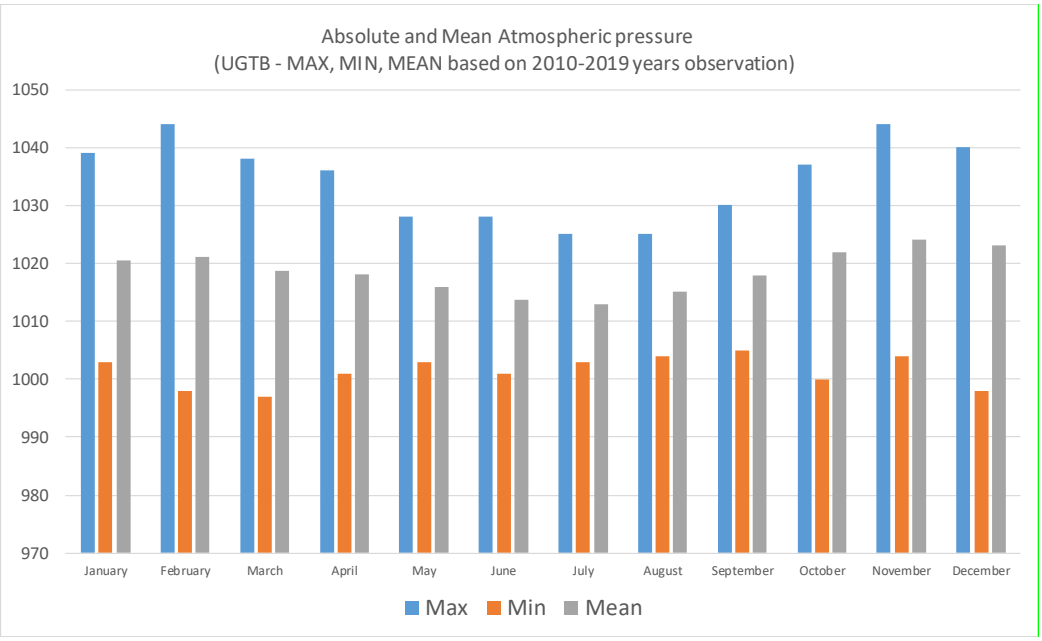
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL F**
**TABULAR FORM**

AERODROME: UGTB MONTHLY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 175296 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Absolute and Mean Atmospheric pressure (UGTB - MAX, MIN, MEAN based on 2010-2019 years observation) | | | |
|---|---|---|---|
| Pressure (HPA) | | | |
| Month | Max | Min | Mean |
| January | 1039 | 1003 | 1020 |
| February | 1044 | 998 | 1021 |
| March | 1038 | 997 | 1019 |
| April | 1036 | 1001 | 1018 |
| May | 1028 | 1003 | 1016 |
| June | 1028 | 1001 | 1014 |
| July | 1025 | 1003 | 1013 |
| August | 1025 | 1004 | 1015 |
| September | 1030 | 1005 | 1018 |
| October | 1037 | 1000 | 1022 |
| November | 1044 | 1004 | 1024 |
| December | 1040 | 998 | 1023 |




Based on the ten years observations in Tbilisi international airport (UGTB):

The Maximum absolute pressure of atmosphere - QNH detected in February and November - 1044 HPA;

The Minimum absolute pressure of atmosphere - QNH detected in March - 997 HPA.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL G**
**TABULAR FORM**

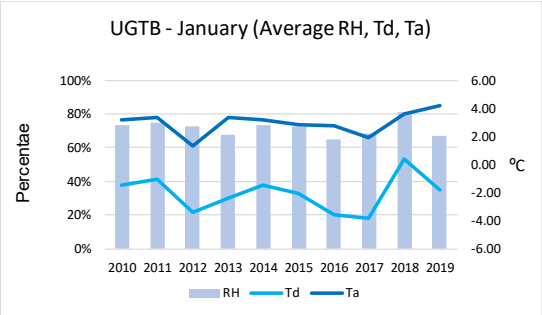
AERODROME: UGTB OBSERVATION INTERVAL: 30 MIN. PERIOD OF RECORD: 2010-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

## JANUARY

TOTAL NUMBER OF OBSERVATIONS: 14880

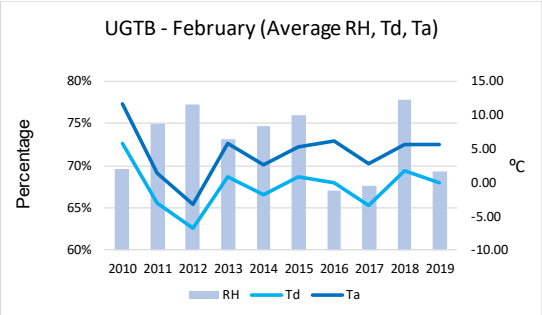
| UGTB January (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 73.64% | -1.49 | 3.23 |
| 2011 | 74.98% | -1.01 | 3.39 |
| 2012 | 72.95% | -3.38 | 1.32 |
| 2013 | 67.76% | -2.41 | 3.38 |
| 2014 | 73.64% | -1.49 | 3.23 |
| 2015 | 72.34% | -2.06 | 2.82 |
| 2016 | 64.58% | -3.57 | 2.74 |
| 2017 | 68.31% | -3.82 | 1.89 |
| 2018 | 81.37% | 0.41 | 3.62 |
| 2019 | 67.19% | -1.83 | 4.19 |




## FEBRUARY

TOTAL NUMBER OF OBSERVATIONS: 13536

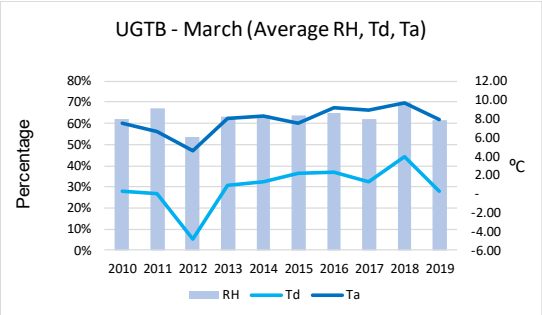
| UGTB February (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 69.58% | 5.75 | 11.65 |
| 2011 | 74.89% | -3.01 | 1.43 |
| 2012 | 72.07% | -5.39 | -0.59 |
| 2013 | 73.12% | 0.80 | 5.73 |
| 2014 | 74.62% | -1.81 | 2.63 |
| 2015 | 75.95% | 0.80 | 5.15 |
| 2016 | 67.05% | -0.10 | 6.18 |
| 2017 | 67.61% | -3.39 | 2.71 |
| 2018 | 77.79% | 1.74 | 5.64 |
| 2019 | 69.36% | 0.00 | 5.63 |




## MARCH

TOTAL NUMBER OF OBSERVATIONS: 14880

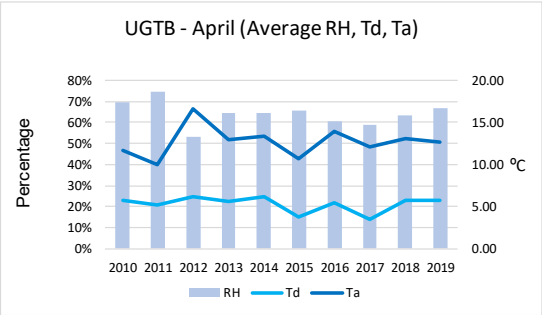
| UGTB March (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 62.24% | 0.27 | 7.51 |
| 2011 | 67.14% | 0.06 | 6.58 |
| 2012 | 53.67% | -4.74 | 4.60 |
| 2013 | 63.26% | 0.95 | 8.04 |
| 2014 | 63.97% | 1.30 | 8.26 |
| 2015 | 63.97% | 2.15 | 7.52 |
| 2016 | 65.04% | 2.31 | 9.11 |
| 2017 | 61.82% | 1.29 | 8.86 |
| 2018 | 69.99% | 3.94 | 9.60 |
| 2019 | 61.42% | 0.25 | 7.88 |




## APRIL

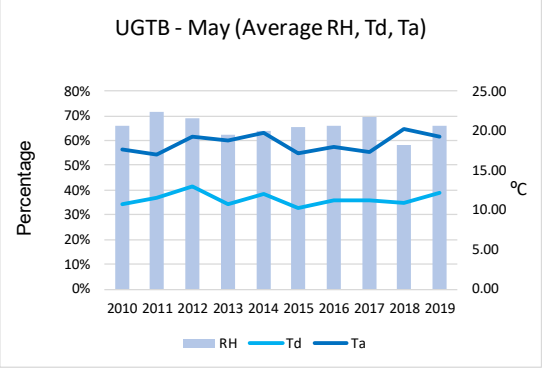
TOTAL NUMBER OF OBSERVATIONS: 14400

| UGTB April (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 69.52% | 5.80 | 11.71 |
| 2011 | 74.51% | 5.18 | 9.96 |
| 2012 | 53.43% | 6.25 | 16.60 |
| 2013 | 64.56% | 5.69 | 12.96 |
| 2014 | 64.44% | 6.24 | 13.43 |
| 2015 | 65.51% | 3.86 | 10.67 |
| 2016 | 60.36% | 5.52 | 13.89 |
| 2017 | 58.94% | 3.53 | 12.10 |
| 2018 | 63.43% | 5.81 | 13.14 |
| 2019 | 66.71% | 5.78 | 12.62 |



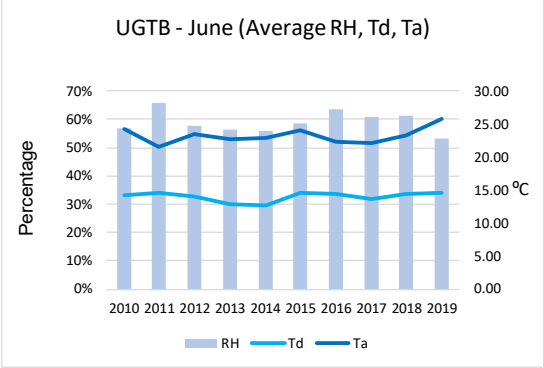
**MAY**
TOTAL NUMBER OF OBSERVATIONS: 14880

| UGTB May (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 66.06% | 10.71 | 17.61 |
| 2011 | 71.88% | 11.59 | 16.98 |
| 2012 | 69.08% | 13.01 | 19.24 |
| 2013 | 62.29% | 10.72 | 18.81 |
| 2014 | 64.07% | 12.05 | 19.80 |
| 2015 | 65.43% | 10.19 | 17.20 |
| 2016 | 66.67% | 11.16 | 17.91 |
| 2017 | 69.34% | 11.17 | 17.25 |
| 2018 | 58.31% | 10.82 | 20.23 |
| 2019 | 65.81% | 12.21 | 19.30 |



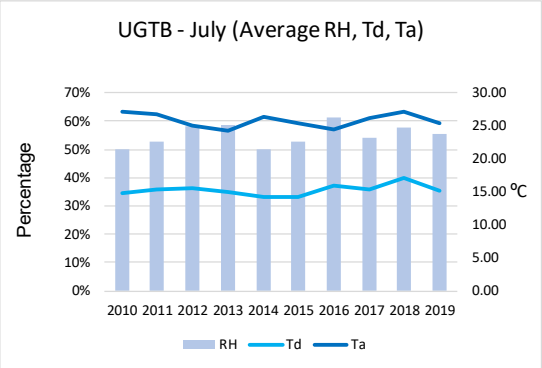

**JUNE**
TOTAL NUMBER OF OBSERVATIONS: 14400

| UGTB June (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 56.92% | 14.28 | 24.16 |
| 2011 | 65.73% | 14.50 | 21.60 |
| 2012 | 57.58% | 14.05 | 23.49 |
| 2013 | 56.29% | 12.77 | 22.74 |
| 2014 | 55.76% | 12.71 | 22.85 |
| 2015 | 58.79% | 14.59 | 24.01 |
| 2016 | 63.58% | 14.39 | 22.09 |
| 2017 | 60.76% | 13.63 | 22.28 |
| 2018 | 61.16% | 14.49 | 23.22 |
| 2019 | 53.11% | 14.52 | 25.75 |



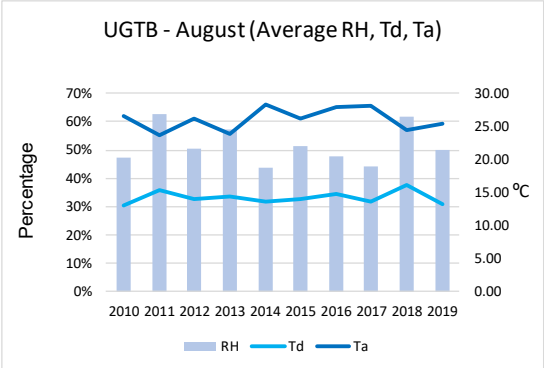

**JULY**
TOTAL NUMBER OF OBSERVATIONS: 14880

| UGTB July (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 49.89% | 14.84 | 27.20 |
| 2011 | 52.69% | 15.36 | 26.78 |
| 2012 | 58.35% | 15.66 | 24.96 |
| 2013 | 58.52% | 14.97 | 24.26 |
| 2014 | 50.07% | 14.14 | 26.33 |
| 2015 | 52.61% | 14.28 | 25.45 |
| 2016 | 61.14% | 15.97 | 24.52 |
| 2017 | 54.19% | 15.38 | 26.24 |
| 2018 | 57.62% | 17.13 | 27.14 |
| 2019 | 55.39% | 15.12 | 25.36 |



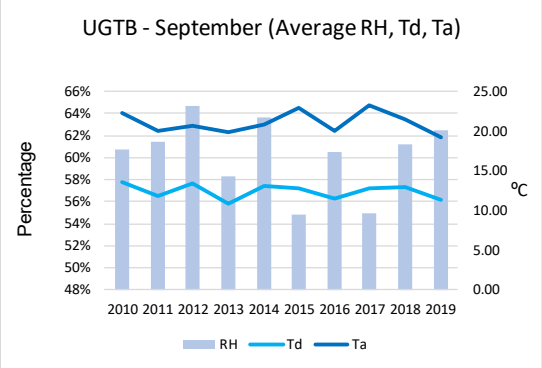

**AUGUST**
TOTAL NUMBER OF OBSERVATIONS: 14880

| UGTB August (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 47.18% | 12.97 | 26.47 |
| 2011 | 62.58% | 15.40 | 23.63 |
| 2012 | 50.30% | 14.01 | 26.17 |
| 2013 | 57.36% | 14.36 | 23.91 |
| 2014 | 43.86% | 13.69 | 28.29 |
| 2015 | 51.25% | 14.03 | 26.21 |
| 2016 | 47.79% | 14.80 | 27.88 |
| 2017 | 44.12% | 13.64 | 28.02 |
| 2018 | 61.96% | 16.14 | 24.49 |
| 2019 | 50.07% | 13.24 | 25.41 |



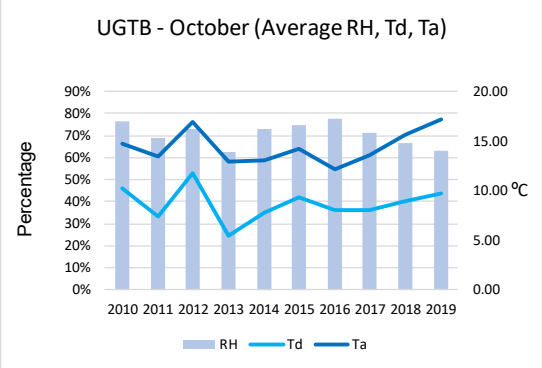
**SEPTEMBER**
TOTAL NUMBER OF OBSERVATIONS: 14400

| UGTB September (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - $C^0$ | Ta - $C^0$ |
| 2010 | 60.70% | 13.60 | 22.36 |
| 2011 | 61.40% | 11.81 | 20.01 |
| 2012 | 64.74% | 13.43 | 20.76 |
| 2013 | 58.31% | 10.83 | 19.85 |
| 2014 | 63.62% | 13.16 | 20.89 |
| 2015 | 54.86% | 12.84 | 22.94 |
| 2016 | 60.53% | 11.52 | 19.99 |
| 2017 | 54.94% | 12.78 | 23.22 |
| 2018 | 61.25% | 13.00 | 21.42 |
| 2019 | 62.47% | 11.34 | 19.26 |



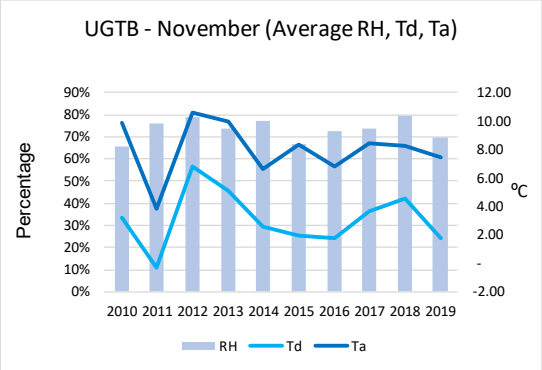

**OCTOBER**
TOTAL NUMBER OF OBSERVATIONS: 14880

| UGTB October (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - $C^0$ | Ta - $C^0$ |
| 2010 | 76.20% | 10.24 | 14.79 |
| 2011 | 69.10% | 7.41 | 13.51 |
| 2012 | 73.21% | 11.76 | 16.96 |
| 2013 | 62.28% | 5.43 | 12.96 |
| 2014 | 73.00% | 7.79 | 13.05 |
| 2015 | 74.78% | 9.38 | 14.21 |
| 2016 | 77.67% | 8.04 | 12.20 |
| 2017 | 71.08% | 8.07 | 13.64 |
| 2018 | 66.33% | 8.99 | 15.63 |
| 2019 | 63.43% | 9.70 | 17.16 |



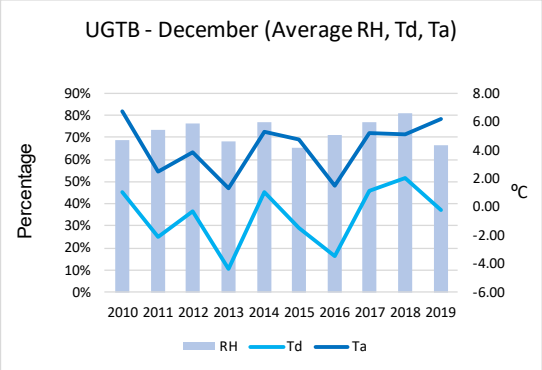

**NOVEMBER**
TOTAL NUMBER OF OBSERVATIONS: 14400

| UGTB November (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - $C^0$ | Ta - $C^0$ |
| 2010 | 65.59% | 3.18 | 9.91 |
| 2011 | 76.29% | -0.27 | 3.82 |
| 2012 | 78.88% | 6.82 | 10.61 |
| 2013 | 73.90% | 5.11 | 9.92 |
| 2014 | 77.44% | 2.60 | 6.67 |
| 2015 | 66.59% | 1.94 | 8.37 |
| 2016 | 72.74% | 1.75 | 6.77 |
| 2017 | 73.75% | 3.64 | 8.47 |
| 2018 | 79.68% | 4.59 | 8.21 |
| 2019 | 69.75% | 1.79 | 7.41 |




**DECEMBER**
TOTAL NUMBER OF OBSERVATIONS: 14880

| UGTB December (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - $C^0$ | Ta - $C^0$ |
| 2010 | 68.96% | 1.02 | 6.71 |
| 2011 | 73.22% | -2.14 | 2.54 |
| 2012 | 76.56% | -0.26 | 3.86 |
| 2013 | 68.04% | -4.34 | 1.29 |
| 2014 | 77.11% | 1.10 | 5.32 |
| 2015 | 65.33% | -1.48 | 4.79 |
| 2016 | 71.24% | -3.42 | 1.48 |
| 2017 | 76.78% | 1.18 | 5.21 |
| 2018 | 81.15% | 2.01 | 5.16 |
| 2019 | 66.54% | -0.23 | 6.16 |



**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

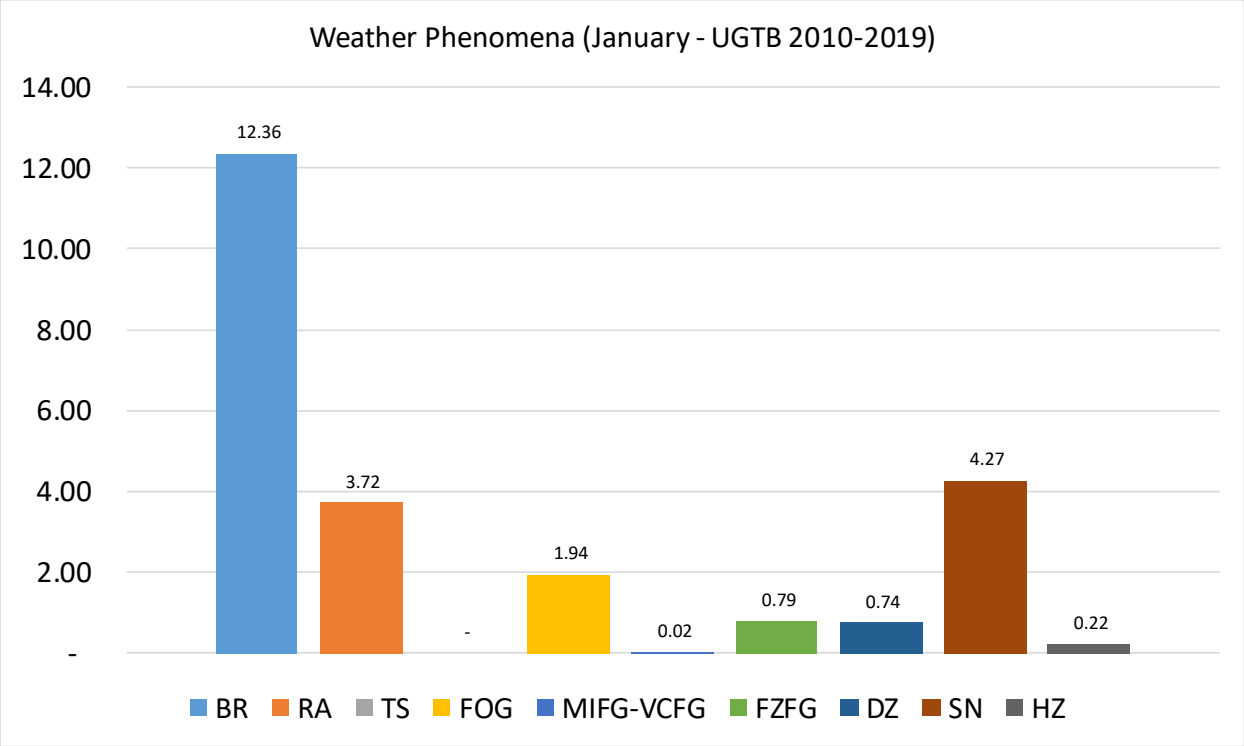
AERODROME: UGTB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 13.31 | 3.90 | - | 1.30 | - | 0.97 | 0.97 | 2.92 | - |
| 0030 | 13.27 | 5.18 | - | 1.94 | - | 0.65 | 0.65 | 4.85 | - |
| 0100 | 13.31 | 4.87 | - | 1.95 | - | 0.97 | 0.32 | 4.55 | - |
| 0130 | 12.75 | 5.88 | - | 2.29 | - | 0.65 | 0.33 | 4.58 | - |
| 0200 | 12.30 | 5.18 | - | 2.91 | - | 0.97 | 0.32 | 4.53 | - |
| 0230 | 11.80 | 5.25 | - | 5.25 | - | 1.64 | - | 5.25 | - |
| 0300 | 11.11 | 4.58 | - | 4.58 | - | 1.63 | 0.33 | 5.56 | - |
| 0330 | 10.10 | 2.61 | - | 4.56 | 0.33 | 1.95 | 0.98 | 5.54 | - |
| 0400 | 10.82 | 2.95 | - | 4.92 | - | 1.97 | 0.33 | 4.59 | - |
| 0430 | 15.79 | 2.63 | - | 5.26 | - | 1.64 | 0.66 | 4.61 | - |
| 0500 | 16.88 | 4.22 | - | 5.52 | - | 1.95 | 1.30 | 5.19 | - |
| 0530 | 17.48 | 5.18 | - | 5.83 | - | 1.94 | 0.65 | 5.18 | - |
| 0600 | 17.86 | 3.25 | - | 4.22 | - | 1.62 | - | 5.52 | 0.32 |
| 0630 | 20.06 | 4.21 | - | 3.56 | - | 1.62 | - | 4.53 | 0.32 |
| 0700 | 17.21 | 3.25 | - | 3.90 | - | 1.30 | 0.32 | 3.90 | 0.32 |
| 0730 | 17.97 | 3.59 | - | 2.61 | - | 0.33 | - | 4.58 | 0.33 |
| 0800 | 17.15 | 4.21 | - | 1.62 | - | 0.32 | 0.32 | 4.85 | 0.32 |
| 0830 | 15.26 | 5.19 | - | 1.62 | - | 0.65 | 1.62 | 4.55 | 0.65 |
| 0900 | 13.64 | 5.52 | - | 1.30 | - | - | 1.62 | 4.22 | 0.32 |
| 0930 | 12.87 | 3.30 | - | 0.33 | - | 0.33 | 0.66 | 4.62 | 0.33 |
| 1000 | 13.36 | 2.93 | - | - | - | 0.33 | 0.65 | 4.56 | 0.33 |
| 1030 | 13.49 | 2.63 | - | - | - | - | 0.33 | 5.59 | 0.33 |
| 1100 | 13.18 | 3.22 | - | - | - | - | - | 4.82 | 0.32 |
| 1130 | 11.07 | 3.58 | - | - | - | 0.33 | 0.65 | 4.23 | 0.33 |
| 1200 | 10.32 | 2.58 | - | 0.65 | - | - | 0.65 | 2.58 | 0.65 |
| 1230 | 10.53 | 2.96 | - | 0.99 | - | - | 0.66 | 3.29 | 0.66 |
| 1300 | 11.11 | 2.94 | - | 0.98 | - | - | 0.33 | 4.25 | 0.33 |
| 1330 | 11.33 | 2.33 | - | 0.67 | - | - | 0.33 | 2.67 | 0.67 |
| 1400 | 12.38 | 2.61 | - | - | 0.33 | - | 0.33 | 3.26 | 1.63 |
| 1430 | 8.12 | 2.92 | - | 0.32 | - | - | 0.32 | 3.25 | 0.97 |
| 1500 | 8.79 | 1.95 | - | 0.33 | - | 0.33 | 1.63 | 3.91 | 0.65 |
| 1530 | 8.79 | 2.93 | - | 0.33 | - | - | 1.30 | 3.26 | 0.33 |
| 1600 | 9.15 | 3.27 | - | 0.33 | - | 0.33 | 1.63 | 3.27 | 0.33 |
| 1630 | 10.68 | 3.24 | - | 0.32 | 0.32 | 0.32 | 0.65 | 3.24 | - |
| 1700 | 10.06 | 3.25 | - | 0.65 | - | 0.97 | 1.30 | 3.25 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 9.77 | 2.93 | - | 0.65 | - | 0.98 | 1.95 | 3.58 | - |
| 1800 | 10.06 | 2.92 | - | 1.30 | - | 1.30 | 1.30 | 3.57 | - |
| 1830 | 10.39 | 2.60 | - | 1.30 | - | 1.62 | 1.30 | 2.92 | - |
| 1900 | 10.16 | 2.30 | - | 1.64 | - | 0.66 | 1.31 | 3.93 | - |
| 1930 | 9.90 | 3.96 | - | 1.32 | - | 0.99 | 0.99 | 4.95 | - |
| 2000 | 10.39 | 4.22 | - | 1.95 | - | 1.30 | 0.65 | 4.87 | - |
| 2030 | 9.21 | 4.61 | - | 2.63 | - | 0.99 | 0.66 | 4.93 | - |
| 2100 | 10.29 | 4.18 | - | 1.29 | - | 1.29 | 0.96 | 4.18 | - |
| 2130 | 10.36 | 4.85 | - | 2.27 | - | 1.29 | 0.65 | 4.53 | - |
| 2200 | 13.16 | 5.26 | - | 1.97 | - | 0.33 | 0.66 | 4.61 | - |
| 2230 | 12.26 | 4.84 | - | 1.94 | - | 0.32 | 0.97 | 5.16 | - |
| 2300 | 12.34 | 3.57 | - | 2.60 | - | 0.32 | 1.30 | 4.55 | - |
| 2330 | 11.69 | 3.90 | - | 1.30 | - | 0.65 | 0.65 | 3.90 | - |
| Mean | 12.36 | 3.72 | - | 1.94 | 0.02 | 0.79 | 0.74 | 4.27 | 0.22 |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in January are: mist – 12.36%, snow – 4.27%, rain – 3.72%.

No thunderstorm activities were observed in January.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

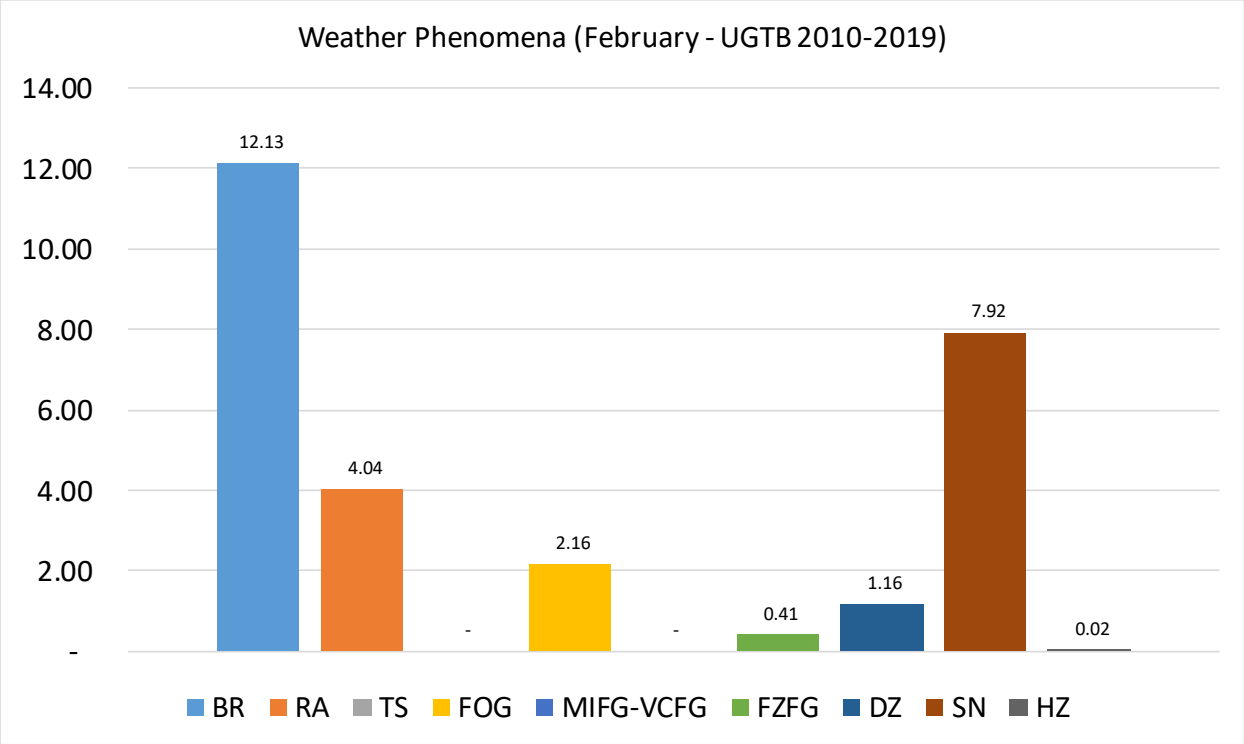
AERODROME: UGTB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 12.60 | 4.20 | - | 3.44 | - | 0.76 | 2.29 | 11.45 | - |
| 0030 | 12.83 | 5.28 | - | 3.02 | - | 2.26 | 1.51 | 10.94 | - |
| 0100 | 11.94 | 5.60 | - | 2.61 | - | 1.12 | 0.37 | 10.82 | - |
| 0130 | 12.12 | 4.92 | - | 2.65 | - | 0.76 | - | 10.98 | - |
| 0200 | 14.98 | 5.99 | - | 1.87 | - | 0.37 | 0.75 | 10.49 | - |
| 0230 | 13.69 | 4.94 | - | 3.42 | - | 0.38 | 1.14 | 11.41 | - |
| 0300 | 15.09 | 5.28 | - | 3.02 | - | - | 0.75 | 10.19 | - |
| 0330 | 17.11 | 5.32 | - | 3.80 | - | 0.76 | 0.76 | 11.03 | - |
| 0400 | 22.61 | 4.60 | - | 4.60 | - | 1.53 | 1.92 | 10.73 | - |
| 0430 | 22.61 | 5.75 | - | 4.60 | - | 1.15 | 1.15 | 9.58 | - |
| 0500 | 23.75 | 4.60 | - | 4.98 | - | 0.77 | 1.92 | 10.34 | - |
| 0530 | 25.77 | 3.46 | - | 2.69 | - | 0.77 | 1.92 | 11.54 | - |
| 0600 | 22.31 | 3.46 | - | 2.69 | - | 0.77 | 1.54 | 11.15 | - |
| 0630 | 21.15 | 4.62 | - | 2.69 | - | 0.38 | 0.77 | 10.38 | - |
| 0700 | 20.38 | 3.08 | - | 2.31 | - | 0.38 | 1.54 | 10.77 | - |
| 0730 | 16.92 | 3.85 | - | 2.69 | - | - | 1.15 | 10.38 | - |
| 0800 | 15.59 | 3.04 | - | 1.90 | - | - | 1.52 | 7.22 | - |
| 0830 | 14.72 | 3.02 | - | 1.13 | - | - | 1.13 | 8.68 | - |
| 0900 | 12.17 | 3.80 | - | 0.38 | - | - | 0.38 | 6.46 | - |
| 0930 | 12.08 | 4.15 | - | - | - | - | - | 7.55 | - |
| 1000 | 10.23 | 4.17 | - | 1.52 | - | - | 0.38 | 7.20 | - |
| 1030 | 8.46 | 3.85 | - | 1.54 | - | - | 0.77 | 5.38 | - |
| 1100 | 8.71 | 3.79 | - | 1.14 | - | - | 0.76 | 6.06 | - |
| 1130 | 9.43 | 3.40 | - | 0.38 | - | - | 0.75 | 4.91 | - |
| 1200 | 7.55 | 3.02 | - | - | - | - | 0.75 | 4.91 | - |
| 1230 | 7.28 | 2.68 | - | 0.77 | - | - | 0.77 | 4.21 | 0.38 |
| 1300 | 10.19 | 3.02 | - | - | - | - | 1.13 | 3.40 | 0.38 |
| 1330 | 10.27 | 4.18 | - | - | - | - | 1.52 | 3.04 | - |
| 1400 | 9.47 | 3.41 | - | 0.38 | - | - | 1.14 | 4.17 | - |
| 1430 | 10.00 | 3.08 | - | - | - | - | 1.15 | 3.46 | - |
| 1500 | 8.85 | 2.31 | - | 0.38 | - | - | 1.15 | 3.46 | - |
| 1530 | 5.70 | 3.04 | - | 1.14 | - | - | 0.38 | 4.56 | - |
| 1600 | 5.77 | 2.69 | - | 1.15 | - | - | 1.15 | 4.62 | - |
| 1630 | 6.56 | 2.70 | - | 0.39 | - | 0.39 | 1.16 | 4.63 | - |
| 1700 | 7.69 | 3.85 | - | 0.77 | - | - | 1.15 | 4.62 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 9.16 | 5.34 | - | 1.53 | - | 0.38 | 1.15 | 5.34 | - |
| 1800 | 9.16 | 3.05 | - | 1.91 | - | - | 0.38 | 5.73 | - |
| 1830 | 7.66 | 3.83 | - | 3.45 | - | 0.38 | 1.15 | 7.28 | - |
| 1900 | 7.28 | 3.45 | - | 2.30 | - | 0.38 | 0.77 | 8.81 | - |
| 1930 | 7.81 | 3.52 | - | 2.73 | - | - | 1.17 | 8.59 | - |
| 2000 | 8.02 | 3.44 | - | 2.67 | - | - | 1.91 | 9.16 | - |
| 2030 | 8.81 | 3.07 | - | 3.45 | - | - | 2.30 | 8.43 | - |
| 2100 | 8.17 | 5.45 | - | 3.50 | - | 0.39 | 0.78 | 9.34 | - |
| 2130 | 8.49 | 6.18 | - | 3.47 | - | 0.77 | 1.16 | 10.04 | - |
| 2200 | 7.60 | 6.08 | - | 4.94 | - | 1.14 | 0.76 | 9.89 | - |
| 2230 | 9.84 | 3.54 | - | 3.15 | - | 1.57 | 1.97 | 9.06 | - |
| 2300 | 11.33 | 4.69 | - | 3.52 | - | 1.56 | 2.34 | 9.77 | - |
| 2330 | 12.50 | 4.03 | - | 3.23 | - | 0.40 | 3.23 | 8.06 | - |
| Mean | 12.13 | 4.04 | - | 2.16 | - | 0.41 | 1.16 | 7.92 | 0.02 |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in February are: mist – 12.13%, snow – 7.92%, rain – 4.04%.

No thunderstorm activities were observed in February.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

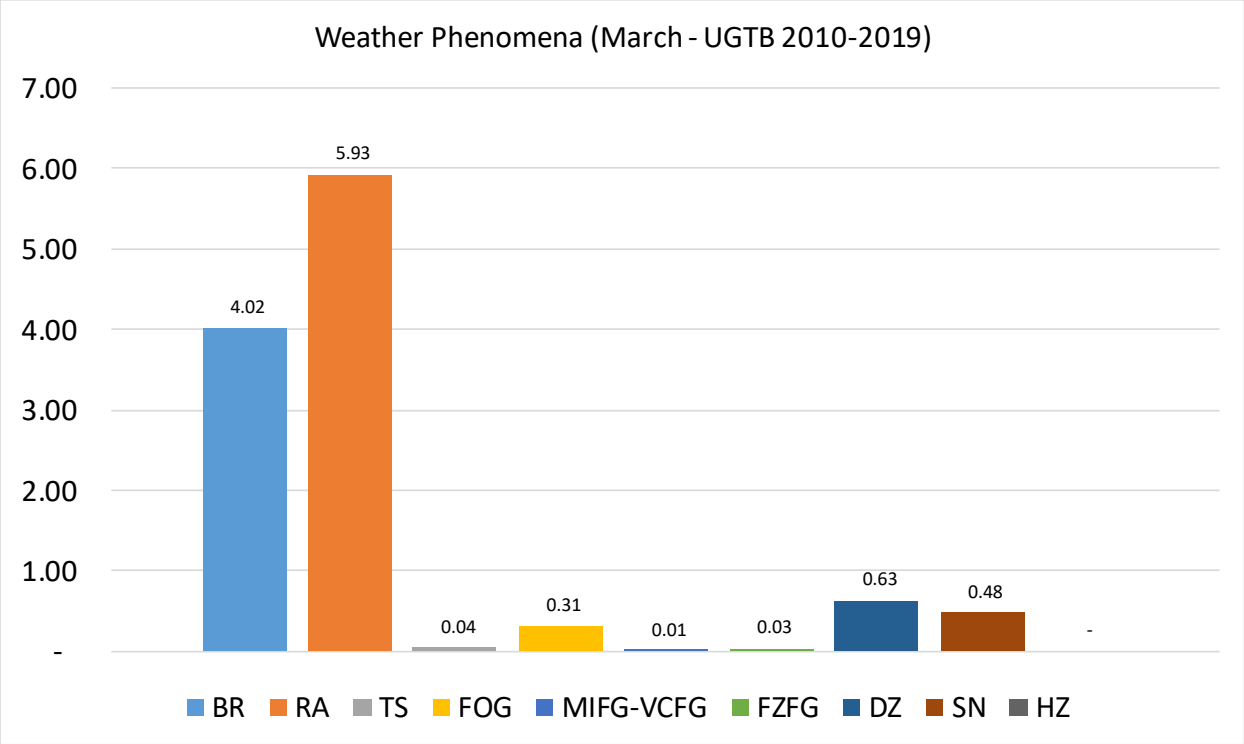
AERODROME: UGTB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 3.33 | 7.00 | - | 0.33 | - | - | 0.67 | 0.67 | - |
| 0030 | 3.25 | 5.84 | - | 0.32 | - | 0.32 | 0.65 | 0.97 | - |
| 0100 | 2.27 | 5.83 | - | 0.65 | - | 0.32 | 0.32 | 0.97 | - |
| 0130 | 3.59 | 6.21 | - | 0.65 | 0.33 | - | - | 0.65 | - |
| 0200 | 3.26 | 5.86 | - | 0.65 | - | - | 0.33 | 0.65 | - |
| 0230 | 3.24 | 4.85 | - | 0.65 | - | - | - | 0.65 | - |
| 0300 | 5.59 | 4.93 | - | 1.64 | - | - | 0.33 | 0.33 | - |
| 0330 | 12.70 | 5.86 | - | 1.63 | - | - | 0.98 | 0.33 | - |
| 0400 | 13.31 | 4.87 | - | 0.97 | - | - | 1.95 | 0.97 | - |
| 0430 | 11.51 | 6.25 | - | 1.32 | - | 0.33 | 0.66 | 0.99 | - |
| 0500 | 11.65 | 5.50 | - | 1.94 | - | 0.32 | 0.97 | 0.65 | - |
| 0530 | 11.76 | 6.21 | - | 1.96 | - | - | 1.31 | 1.96 | - |
| 0600 | 9.87 | 5.26 | - | 0.99 | - | - | 0.66 | 1.32 | - |
| 0630 | 9.51 | 4.26 | - | - | - | - | 0.98 | 1.31 | - |
| 0700 | 8.79 | 5.54 | - | - | - | - | 0.98 | 0.98 | - |
| 0730 | 6.91 | 5.26 | - | 0.33 | - | - | 0.99 | - | - |
| 0800 | 6.25 | 3.95 | - | 0.33 | - | - | 0.33 | - | - |
| 0830 | 4.23 | 4.56 | 0.33 | - | - | - | - | - | - |
| 0900 | 3.22 | 3.86 | 0.32 | - | - | - | 0.96 | - | - |
| 0930 | 2.94 | 4.25 | - | - | - | - | 0.98 | 0.33 | - |
| 1000 | 1.97 | 3.29 | - | - | - | - | 0.66 | 0.33 | - |
| 1030 | 2.30 | 3.93 | - | - | - | - | 0.98 | 0.33 | - |
| 1100 | 2.97 | 3.63 | - | - | - | - | 0.33 | 0.66 | - |
| 1130 | 1.95 | 4.22 | - | - | - | - | 0.65 | 0.32 | - |
| 1200 | 1.29 | 3.88 | - | - | - | 0.32 | 0.65 | 0.32 | - |
| 1230 | 1.62 | 4.87 | 0.65 | - | - | - | 0.32 | 0.32 | - |
| 1300 | 2.30 | 4.59 | - | - | - | - | 0.98 | 0.33 | - |
| 1330 | 1.95 | 6.17 | - | - | - | - | 0.32 | 0.32 | - |
| 1400 | 1.32 | 6.27 | - | - | - | - | 0.66 | 0.33 | - |
| 1430 | 1.65 | 4.95 | - | - | - | - | - | 0.33 | - |
| 1500 | 1.65 | 6.27 | - | - | - | - | - | 0.33 | - |
| 1530 | 1.30 | 7.82 | - | - | - | - | 0.33 | 0.33 | - |
| 1600 | 0.97 | 8.06 | - | - | - | - | - | 0.32 | - |
| 1630 | 1.62 | 8.09 | - | - | - | - | 0.32 | - | - |
| 1700 | 0.99 | 7.59 | - | - | - | - | 0.33 | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.66 | 7.54 | - | - | - | - | 0.33 | - | - |
| 1800 | 1.63 | 6.51 | - | - | - | - | 0.33 | - | - |
| 1830 | 0.99 | 6.58 | - | 0.33 | - | - | 0.66 | 0.33 | - |
| 1900 | 1.31 | 6.54 | - | 0.33 | - | - | 0.65 | - | - |
| 1930 | 2.30 | 6.23 | - | - | - | - | 0.98 | - | - |
| 2000 | 2.92 | 7.79 | 0.32 | - | - | - | 0.65 | 0.32 | - |
| 2030 | 2.94 | 6.54 | 0.33 | - | - | - | 0.98 | 0.33 | - |
| 2100 | 2.94 | 6.86 | - | - | - | - | 0.98 | 0.33 | - |
| 2130 | 3.24 | 8.09 | - | - | - | - | 0.97 | 0.65 | - |
| 2200 | 3.55 | 7.74 | - | - | - | - | 0.65 | 0.32 | - |
| 2230 | 2.90 | 8.71 | - | - | - | - | 0.97 | 0.65 | - |
| 2300 | 1.98 | 7.26 | - | - | - | - | 0.99 | 0.66 | - |
| 2330 | 2.64 | 8.25 | - | - | - | - | 0.66 | 0.99 | - |
| Mean | 4.02 | 5.93 | 0.04 | 0.31 | 0.01 | 0.03 | 0.63 | 0.48 | - |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in March are: rain – 5.93%, mist – 4.02%, drizzle – 0.63%.

The activity of thunderstorms in March constitutes 0.04%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

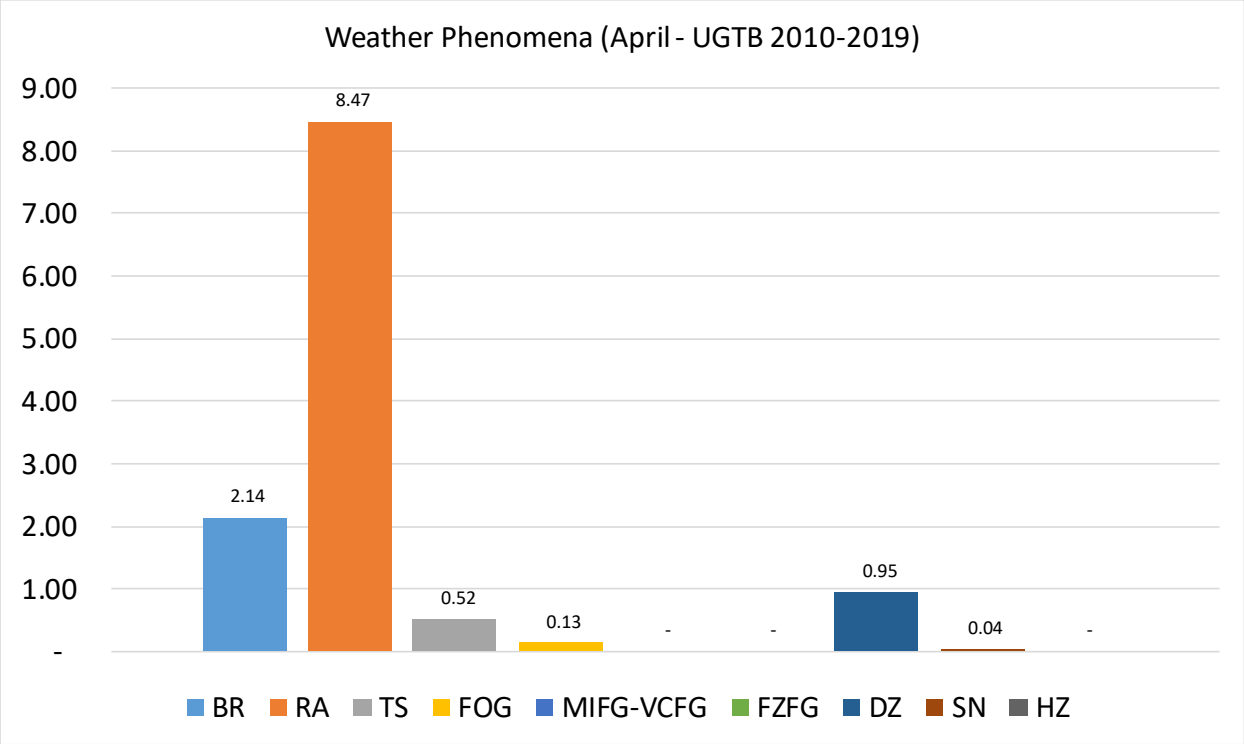
AERODROME: UGTB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 1.36 | 10.51 | - | 0.34 | - | - | 0.68 | - | - |
| 0030 | 1.67 | 9.36 | - | 0.33 | - | - | 1.34 | - | - |
| 0100 | 2.01 | 11.74 | 0.34 | 0.34 | - | - | 1.34 | - | - |
| 0130 | 1.69 | 8.78 | 0.34 | 0.68 | - | - | 1.69 | - | - |
| 0200 | 1.98 | 10.56 | - | 1.32 | - | - | 0.66 | - | - |
| 0230 | 5.05 | 8.42 | - | 0.67 | - | - | 0.67 | - | - |
| 0300 | 6.40 | 7.41 | - | - | - | - | - | 0.34 | - |
| 0330 | 5.44 | 8.16 | - | 0.34 | - | - | 0.34 | 0.34 | - |
| 0400 | 5.44 | 8.16 | - | 0.34 | - | - | 1.36 | - | - |
| 0430 | 4.71 | 7.41 | - | - | - | - | 1.35 | - | - |
| 0500 | 4.68 | 7.69 | - | - | - | - | 2.01 | - | - |
| 0530 | 4.05 | 7.77 | - | - | - | - | 1.69 | - | - |
| 0600 | 2.69 | 6.06 | - | 0.34 | - | - | 1.68 | 0.34 | - |
| 0630 | 2.71 | 6.78 | - | 0.34 | - | - | 1.36 | - | - |
| 0700 | 2.35 | 6.38 | - | - | - | - | 1.01 | 0.67 | - |
| 0730 | 1.03 | 5.82 | - | - | - | - | 1.37 | - | - |
| 0800 | 1.36 | 6.10 | - | 0.34 | - | - | 1.36 | - | - |
| 0830 | 1.34 | 8.36 | 0.33 | - | - | - | 1.00 | - | - |
| 0900 | 1.34 | 8.03 | 0.33 | - | - | - | 1.34 | - | - |
| 0930 | 1.71 | 7.19 | 0.34 | - | - | - | 1.03 | - | - |
| 1000 | 1.35 | 6.40 | 0.34 | - | - | - | 1.01 | - | - |
| 1030 | 1.37 | 7.85 | 0.68 | - | - | - | 1.02 | - | - |
| 1100 | 1.34 | 5.69 | - | - | - | - | 1.00 | - | - |
| 1130 | 1.33 | 7.31 | 0.66 | - | - | - | 1.66 | - | - |
| 1200 | 1.35 | 6.40 | 0.67 | - | - | - | 1.01 | - | - |
| 1230 | 1.35 | 8.78 | 1.35 | - | - | - | 0.34 | - | - |
| 1300 | 0.67 | 8.67 | 2.67 | - | - | - | 0.67 | - | - |
| 1330 | 1.02 | 8.16 | 0.68 | - | - | - | 1.02 | - | - |
| 1400 | 0.67 | 7.36 | 1.00 | - | - | - | 0.33 | - | - |
| 1430 | 1.34 | 6.71 | 0.67 | - | - | - | 1.01 | - | - |
| 1500 | 1.99 | 7.95 | 1.66 | - | - | - | - | - | - |
| 1530 | 2.03 | 9.49 | 1.36 | - | - | - | - | - | - |
| 1600 | 2.01 | 8.36 | 0.67 | - | - | - | - | - | - |
| 1630 | 1.35 | 8.75 | 1.35 | - | - | - | 1.01 | - | - |
| 1700 | 1.67 | 8.67 | 0.67 | - | - | - | 0.33 | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 1.33 | 9.67 | 1.00 | - | - | - | 1.00 | - | - |
| 1800 | 1.32 | 9.60 | 1.32 | - | - | - | 0.99 | - | - |
| 1830 | 2.01 | 9.70 | 1.34 | - | - | - | 1.34 | - | - |
| 1900 | 2.32 | 9.93 | 1.66 | - | - | - | 0.66 | 0.33 | - |
| 1930 | 1.99 | 9.63 | 1.33 | - | - | - | 1.00 | - | - |
| 2000 | 1.67 | 10.33 | 1.33 | - | - | - | 0.67 | - | - |
| 2030 | 2.34 | 10.03 | 0.33 | - | - | - | 1.00 | - | - |
| 2100 | 1.99 | 9.27 | - | - | - | - | 0.99 | - | - |
| 2130 | 1.66 | 10.93 | - | - | - | - | 0.66 | - | - |
| 2200 | 2.00 | 12.00 | - | - | - | - | 0.67 | - | - |
| 2230 | 2.01 | 11.07 | 0.34 | - | - | - | 1.34 | - | - |
| 2300 | 1.34 | 7.72 | - | 0.34 | - | - | 0.67 | - | - |
| 2330 | 1.00 | 9.36 | - | 0.67 | - | - | 1.00 | - | - |
| Mean | 2.14 | 8.47 | 0.52 | 0.13 | - | - | 0.95 | 0.04 | - |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in April are: rain – 8.47%, mist – 2.14%, drizzle – 0.95%.

The activity of thunderstorms in April constitutes 0.52%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

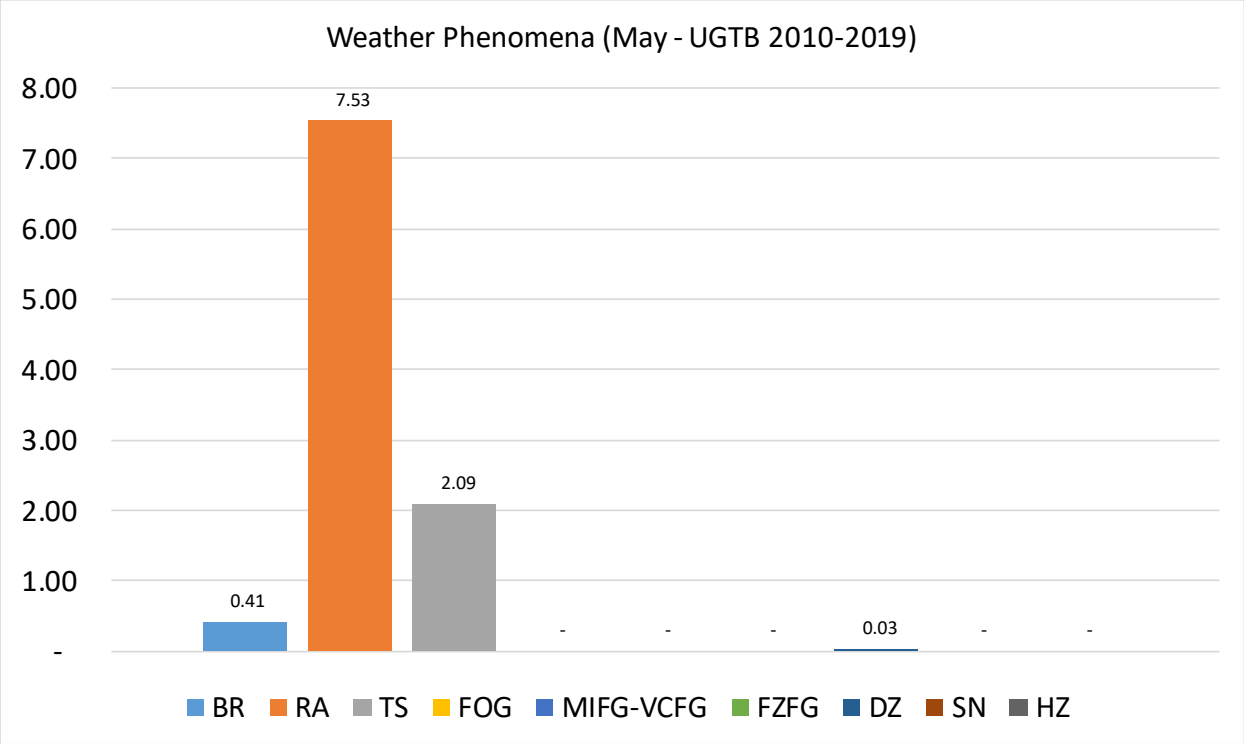
AERODROME: UGTB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | - | 6.73 | 0.67 | - | - | - | - | - | - |
| 0030 | 0.32 | 5.81 | 0.97 | - | - | - | - | - | - |
| 0100 | 0.32 | 7.12 | - | - | - | - | - | - | - |
| 0130 | 0.97 | 6.80 | 0.65 | - | - | - | - | - | - |
| 0200 | 0.97 | 4.52 | - | - | - | - | - | - | - |
| 0230 | 0.64 | 6.05 | - | - | - | - | - | - | - |
| 0300 | 0.99 | 4.95 | - | - | - | - | - | - | - |
| 0330 | 0.32 | 8.09 | 0.65 | - | - | - | - | - | - |
| 0400 | 0.32 | 7.47 | 0.97 | - | - | - | 0.32 | - | - |
| 0430 | 0.33 | 5.26 | - | - | - | - | 0.33 | - | - |
| 0500 | 0.32 | 4.85 | - | - | - | - | - | - | - |
| 0530 | 0.33 | 4.58 | - | - | - | - | - | - | - |
| 0600 | 0.64 | 5.45 | 0.32 | - | - | - | - | - | - |
| 0630 | 0.65 | 6.54 | 1.31 | - | - | - | - | - | - |
| 0700 | 0.33 | 6.58 | 0.33 | - | - | - | - | - | - |
| 0730 | 0.98 | 5.21 | 0.65 | - | - | - | - | - | - |
| 0800 | 0.97 | 4.87 | 1.30 | - | - | - | - | - | - |
| 0830 | 0.66 | 4.59 | 0.66 | - | - | - | - | - | - |
| 0900 | 0.66 | 4.61 | 1.64 | - | - | - | - | - | - |
| 0930 | 0.67 | 6.33 | 1.67 | - | - | - | - | - | - |
| 1000 | 0.66 | 6.98 | 2.99 | - | - | - | - | - | - |
| 1030 | 1.00 | 6.31 | 2.99 | - | - | - | - | - | - |
| 1100 | 0.33 | 4.95 | 0.99 | - | - | - | - | - | - |
| 1130 | 0.33 | 6.93 | 1.65 | - | - | - | - | - | - |
| 1200 | - | 6.93 | 2.97 | - | - | - | - | - | - |
| 1230 | - | 8.55 | 3.29 | - | - | - | - | - | - |
| 1300 | - | 9.30 | 4.65 | - | - | - | - | - | - |
| 1330 | - | 10.03 | 7.69 | - | - | - | - | - | - |
| 1400 | 0.33 | 10.30 | 5.98 | - | - | - | - | - | - |
| 1430 | 0.33 | 10.53 | 5.26 | - | - | - | - | - | - |
| 1500 | 0.33 | 8.22 | 3.95 | - | - | - | - | - | - |
| 1530 | 0.33 | 8.52 | 3.93 | - | - | - | - | - | - |
| 1600 | 0.66 | 9.84 | 5.57 | - | - | - | - | - | - |
| 1630 | - | 9.12 | 4.56 | - | - | - | - | - | - |
| 1700 | - | 10.33 | 3.33 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 9.48 | 3.92 | - | - | - | 0.33 | - | - |
| 1800 | - | 10.78 | 4.25 | - | - | - | - | - | - |
| 1830 | 0.33 | 10.16 | 3.61 | - | - | - | - | - | - |
| 1900 | 0.33 | 9.45 | 3.58 | - | - | - | - | - | - |
| 1930 | 0.32 | 8.39 | 2.90 | - | - | - | - | - | - |
| 2000 | 0.65 | 9.06 | 3.88 | - | - | - | - | - | - |
| 2030 | 0.33 | 9.51 | 2.95 | - | - | - | - | - | - |
| 2100 | 0.32 | 9.35 | 1.94 | - | - | - | - | - | - |
| 2130 | 0.32 | 9.42 | 0.97 | - | - | - | - | - | - |
| 2200 | 0.31 | 7.52 | 0.31 | - | - | - | 0.63 | - | - |
| 2230 | 0.65 | 8.14 | - | - | - | - | - | - | - |
| 2300 | 0.32 | 9.42 | - | - | - | - | - | - | - |
| 2330 | 0.33 | 7.54 | 0.33 | - | - | - | - | - | - |
| Mean | 0.41 | 7.53 | 2.09 | - | - | - | 0.03 | - | - |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in May are: rain – 7.53%, mist – 0.41%, drizzle – 0.03%.

The activity of thunderstorms in May constitutes 2.09%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

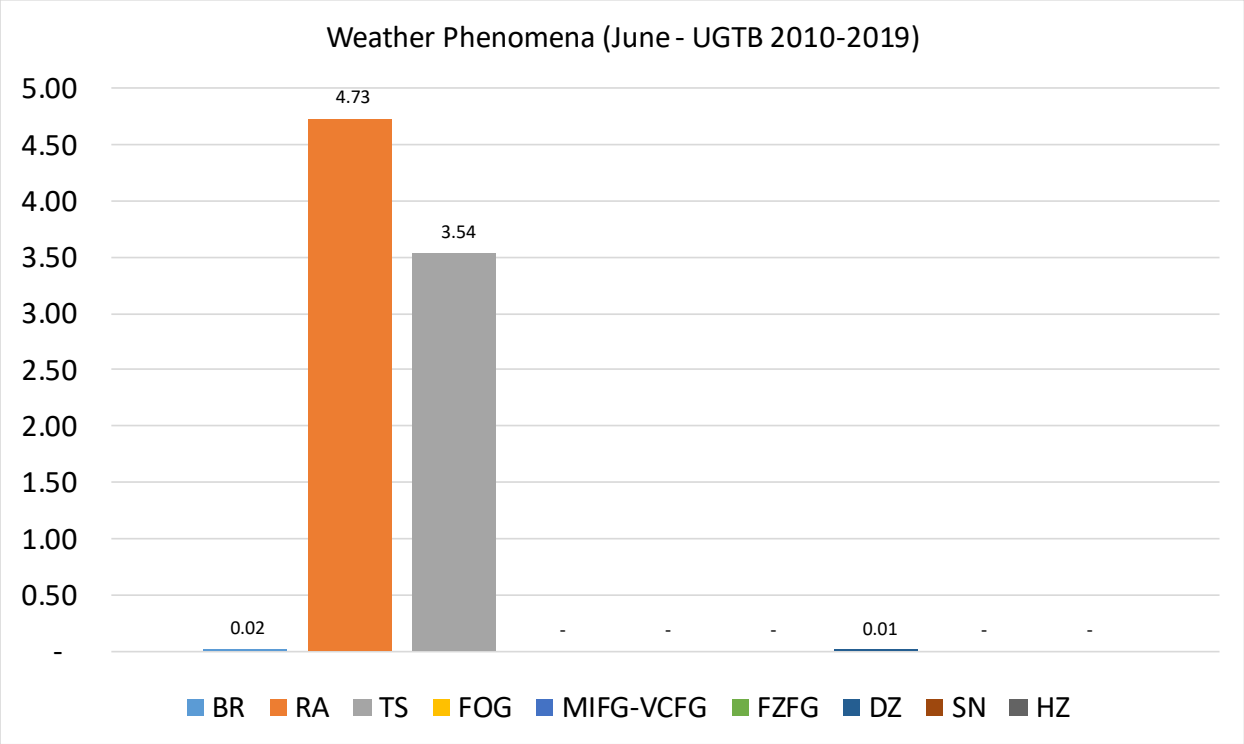
AERODROME: UGTB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | - | 5.63 | 2.32 | - | - | - | - | - | - |
| 0030 | - | 4.62 | 2.97 | - | - | - | - | - | - |
| 0100 | - | 3.96 | 1.98 | - | - | - | - | - | - |
| 0130 | - | 4.03 | 1.01 | - | - | - | - | - | - |
| 0200 | - | 4.65 | 0.66 | - | - | - | - | - | - |
| 0230 | - | 4.30 | 0.33 | - | - | - | - | - | - |
| 0300 | - | 3.01 | 0.33 | - | - | - | - | - | - |
| 0330 | - | 4.62 | 0.33 | - | - | - | - | - | - |
| 0400 | 0.33 | 3.96 | 0.66 | - | - | - | - | - | - |
| 0430 | - | 3.31 | 0.33 | - | - | - | - | - | - |
| 0500 | - | 1.99 | 0.33 | - | - | - | - | - | - |
| 0530 | - | 1.67 | - | - | - | - | - | - | - |
| 0600 | - | 1.65 | - | - | - | - | - | - | - |
| 0630 | - | 3.38 | 0.34 | - | - | - | - | - | - |
| 0700 | - | 2.33 | 0.66 | - | - | - | - | - | - |
| 0730 | - | 2.02 | 0.34 | - | - | - | - | - | - |
| 0800 | - | 2.68 | 0.67 | - | - | - | - | - | - |
| 0830 | - | 1.36 | 0.68 | - | - | - | - | - | - |
| 0900 | - | 1.65 | 1.32 | - | - | - | - | - | - |
| 0930 | - | 1.67 | 1.34 | - | - | - | - | - | - |
| 1000 | - | 1.67 | 1.34 | - | - | - | - | - | - |
| 1030 | - | 1.99 | 1.33 | - | - | - | - | - | - |
| 1100 | - | 2.33 | 2.33 | - | - | - | - | - | - |
| 1130 | - | 3.01 | 2.34 | - | - | - | - | - | - |
| 1200 | - | 3.38 | 3.72 | - | - | - | - | - | - |
| 1230 | - | 2.71 | 3.39 | - | - | - | - | - | - |
| 1300 | - | 3.34 | 4.01 | - | - | - | - | - | - |
| 1330 | - | 5.72 | 5.05 | - | - | - | 0.34 | - | - |
| 1400 | - | 5.67 | 6.00 | - | - | - | - | - | - |
| 1430 | - | 6.02 | 7.69 | - | - | - | - | - | - |
| 1500 | - | 7.48 | 9.86 | - | - | - | - | - | - |
| 1530 | - | 6.40 | 7.07 | - | - | - | - | - | - |
| 1600 | - | 5.35 | 5.69 | - | - | - | - | - | - |
| 1630 | - | 6.78 | 6.10 | - | - | - | - | - | - |
| 1700 | 0.34 | 6.38 | 7.72 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 7.97 | 7.97 | - | - | - | - | - | - |
| 1800 | - | 5.94 | 7.92 | - | - | - | - | - | - |
| 1830 | - | 7.28 | 7.62 | - | - | - | - | - | - |
| 1900 | - | 5.39 | 6.40 | - | - | - | - | - | - |
| 1930 | - | 7.59 | 7.92 | - | - | - | - | - | - |
| 2000 | - | 7.69 | 8.36 | - | - | - | - | - | - |
| 2030 | - | 11.63 | 7.97 | - | - | - | - | - | - |
| 2100 | - | 8.61 | 5.30 | - | - | - | - | - | - |
| 2130 | - | 8.28 | 5.63 | - | - | - | - | - | - |
| 2200 | - | 8.33 | 5.00 | - | - | - | - | - | - |
| 2230 | 0.34 | 6.71 | 4.36 | - | - | - | - | - | - |
| 2300 | - | 5.98 | 2.66 | - | - | - | - | - | - |
| 2330 | - | 5.05 | 2.36 | - | - | - | - | - | - |
| Mean | 0.02 | 4.73 | 3.54 | - | - | - | 0.01 | - | - |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in June are: rain – 4.73%, mist – 0.02%, drizzle – 0.01%.

The activity of thunderstorms in June constitutes 3.54%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

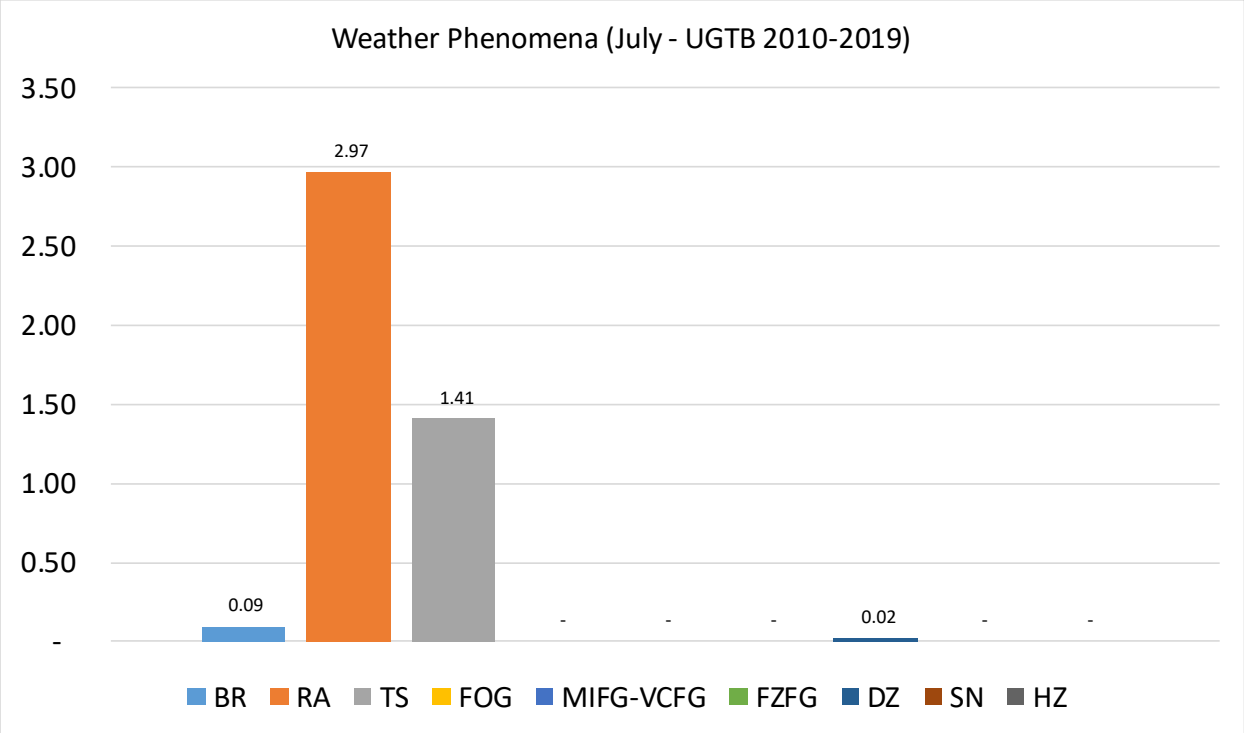
AERODROME: UGTB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | - | 2.91 | 0.97 | - | - | - | - | - | - |
| 0030 | - | 3.23 | 0.65 | - | - | - | - | - | - |
| 0100 | - | 2.56 | 1.28 | - | - | - | - | - | - |
| 0130 | - | 4.52 | 0.65 | - | - | - | 0.65 | - | - |
| 0200 | - | 3.85 | 0.64 | - | - | - | - | - | - |
| 0230 | 0.33 | 4.23 | 0.65 | - | - | - | - | - | - |
| 0300 | 0.32 | 3.21 | 1.28 | - | - | - | - | - | - |
| 0330 | 0.32 | 3.88 | 0.97 | - | - | - | - | - | - |
| 0400 | - | 2.24 | - | - | - | - | - | - | - |
| 0430 | 0.32 | 1.95 | - | - | - | - | - | - | - |
| 0500 | 0.32 | 1.93 | - | - | - | - | - | - | - |
| 0530 | 0.33 | 1.30 | - | - | - | - | - | - | - |
| 0600 | 0.33 | 1.96 | - | - | - | - | - | - | - |
| 0630 | 0.33 | 1.64 | 0.98 | - | - | - | - | - | - |
| 0700 | 0.32 | 1.94 | 0.97 | - | - | - | - | - | - |
| 0730 | 0.32 | 0.97 | 0.65 | - | - | - | - | - | - |
| 0800 | 0.32 | 0.97 | 0.65 | - | - | - | - | - | - |
| 0830 | 0.32 | 0.65 | - | - | - | - | - | - | - |
| 0900 | 0.32 | 0.65 | - | - | - | - | - | - | - |
| 0930 | 0.33 | 0.98 | 0.98 | - | - | - | - | - | - |
| 1000 | - | 1.62 | 0.65 | - | - | - | - | - | - |
| 1030 | - | 1.30 | 0.97 | - | - | - | - | - | - |
| 1100 | - | 0.99 | 1.32 | - | - | - | - | - | - |
| 1130 | - | 0.98 | 0.33 | - | - | - | - | - | - |
| 1200 | - | 1.31 | 0.66 | - | - | - | - | - | - |
| 1230 | - | 0.99 | 0.99 | - | - | - | - | - | - |
| 1300 | - | 1.29 | 1.62 | - | - | - | - | - | - |
| 1330 | - | 0.97 | 1.94 | - | - | - | 0.32 | - | - |
| 1400 | - | 2.27 | 1.95 | - | - | - | - | - | - |
| 1430 | - | 2.89 | 3.54 | - | - | - | - | - | - |
| 1500 | - | 2.88 | 3.53 | - | - | - | - | - | - |
| 1530 | - | 3.95 | 2.96 | - | - | - | - | - | - |
| 1600 | - | 3.86 | 3.54 | - | - | - | - | - | - |
| 1630 | - | 4.30 | 3.64 | - | - | - | - | - | - |
| 1700 | - | 5.28 | 3.96 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 6.19 | 4.89 | - | - | - | - | - | - |
| 1800 | - | 5.45 | 3.53 | - | - | - | - | - | - |
| 1830 | - | 3.86 | 3.54 | - | - | - | - | - | - |
| 1900 | - | 5.18 | 2.27 | - | - | - | - | - | - |
| 1930 | - | 6.80 | 1.29 | - | - | - | - | - | - |
| 2000 | - | 5.19 | 1.62 | - | - | - | - | - | - |
| 2030 | - | 4.93 | 0.33 | - | - | - | - | - | - |
| 2100 | - | 3.85 | 1.60 | - | - | - | - | - | - |
| 2130 | - | 4.14 | 1.27 | - | - | - | - | - | - |
| 2200 | - | 4.28 | 0.66 | - | - | - | - | - | - |
| 2230 | - | 3.93 | 0.98 | - | - | - | - | - | - |
| 2300 | - | 4.53 | 1.29 | - | - | - | - | - | - |
| 2330 | - | 3.67 | 1.33 | - | - | - | - | - | - |
| Mean | 0.09 | 2.97 | 1.41 | - | - | - | 0.02 | - | - |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in July are: rain – 2.97%, mist – 0.09%, drizzle – 0.02%.

The activity of thunderstorms in July constitutes 1.41%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

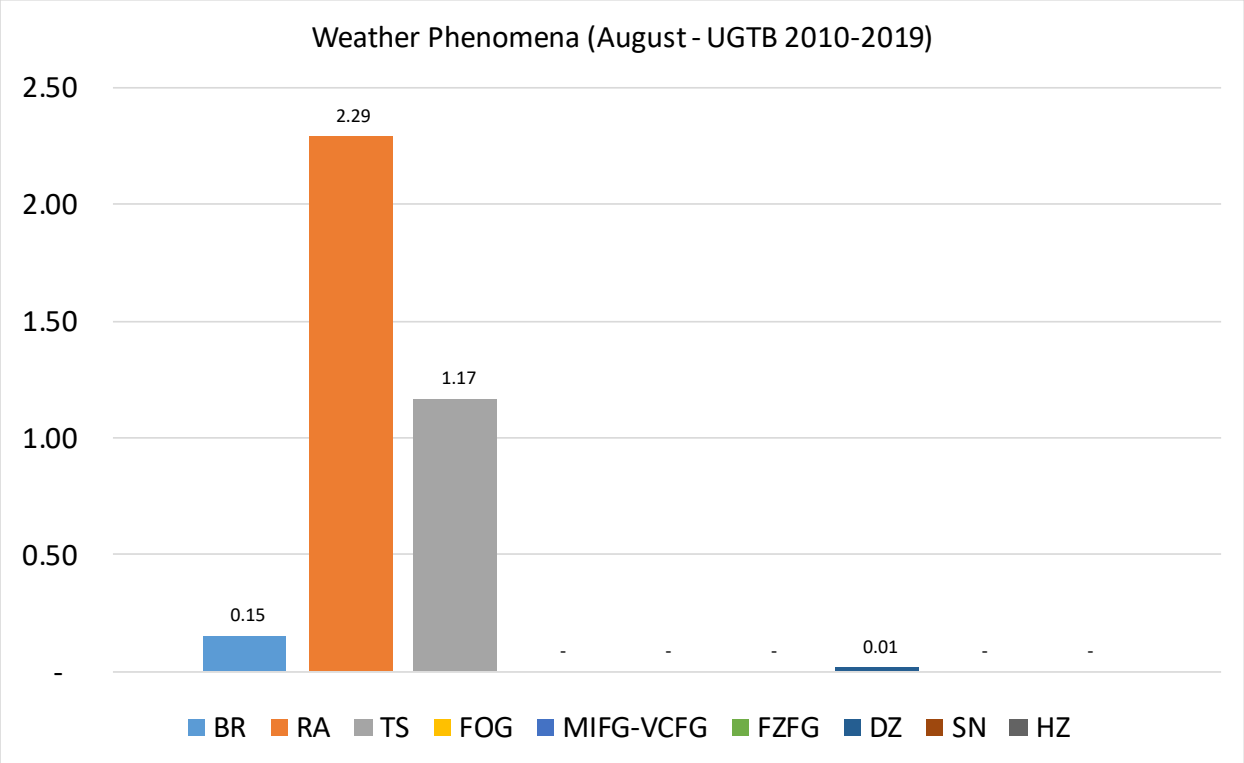
AERODROME: UGTB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | - | 2.36 | 0.68 | - | - | - | - | - | - |
| 0030 | - | 3.63 | 0.99 | - | - | - | - | - | - |
| 0100 | 0.33 | 2.33 | 1.33 | - | - | - | 0.33 | - | - |
| 0130 | 0.33 | 3.65 | 1.66 | - | - | - | - | - | - |
| 0200 | 0.67 | 3.69 | 1.68 | - | - | - | - | - | - |
| 0230 | 0.66 | 3.63 | 0.99 | - | - | - | - | - | - |
| 0300 | 0.33 | 1.97 | 1.64 | - | - | - | - | - | - |
| 0330 | 0.33 | 1.98 | 1.32 | - | - | - | - | - | - |
| 0400 | 0.33 | 2.30 | 0.98 | - | - | - | - | - | - |
| 0430 | 0.33 | 1.67 | - | - | - | - | - | - | - |
| 0500 | 0.32 | 1.93 | - | - | - | - | - | - | - |
| 0530 | 0.33 | 2.64 | - | - | - | - | - | - | - |
| 0600 | 0.65 | 2.29 | - | - | - | - | 0.33 | - | - |
| 0630 | 0.98 | 1.31 | - | - | - | - | - | - | - |
| 0700 | 0.65 | 1.31 | - | - | - | - | - | - | - |
| 0730 | 0.66 | 1.64 | - | - | - | - | - | - | - |
| 0800 | 0.33 | 1.64 | - | - | - | - | - | - | - |
| 0830 | - | 0.33 | - | - | - | - | - | - | - |
| 0900 | - | 0.66 | - | - | - | - | - | - | - |
| 0930 | - | 1.66 | 0.33 | - | - | - | - | - | - |
| 1000 | - | 0.33 | 0.66 | - | - | - | - | - | - |
| 1030 | - | 0.66 | 0.33 | - | - | - | - | - | - |
| 1100 | - | 0.98 | 0.65 | - | - | - | - | - | - |
| 1130 | - | 1.31 | 0.65 | - | - | - | - | - | - |
| 1200 | - | 0.33 | - | - | - | - | - | - | - |
| 1230 | - | 1.31 | 0.33 | - | - | - | - | - | - |
| 1300 | - | 1.30 | 0.33 | - | - | - | - | - | - |
| 1330 | - | 0.98 | 0.65 | - | - | - | - | - | - |
| 1400 | - | 1.63 | 1.63 | - | - | - | - | - | - |
| 1430 | - | 1.63 | 1.31 | - | - | - | - | - | - |
| 1500 | - | 1.95 | 1.95 | - | - | - | - | - | - |
| 1530 | - | 1.63 | 2.94 | - | - | - | - | - | - |
| 1600 | - | 2.63 | 2.96 | - | - | - | - | - | - |
| 1630 | - | 2.65 | 2.65 | - | - | - | - | - | - |
| 1700 | - | 2.30 | 1.31 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 3.70 | 1.68 | - | - | - | - | - | - |
| 1800 | - | 2.32 | 1.32 | - | - | - | - | - | - |
| 1830 | - | 3.69 | 2.68 | - | - | - | - | - | - |
| 1900 | - | 3.02 | 3.02 | - | - | - | - | - | - |
| 1930 | - | 3.73 | 3.39 | - | - | - | - | - | - |
| 2000 | - | 4.30 | 3.64 | - | - | - | - | - | - |
| 2030 | - | 3.31 | 1.66 | - | - | - | - | - | - |
| 2100 | - | 3.32 | 1.33 | - | - | - | - | - | - |
| 2130 | - | 4.97 | 2.65 | - | - | - | - | - | - |
| 2200 | - | 3.96 | 2.31 | - | - | - | - | - | - |
| 2230 | - | 4.26 | 0.98 | - | - | - | - | - | - |
| 2300 | - | 2.98 | 0.66 | - | - | - | - | - | - |
| 2330 | - | 1.98 | 0.66 | - | - | - | - | - | - |
| Mean | 0.15 | 2.29 | 1.17 | - | - | - | 0.01 | - | - |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in August are: rain – 2.29%, mist – 0.15%, drizzle – 0.01%.

The activity of thunderstorms in August constitutes 1.17%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

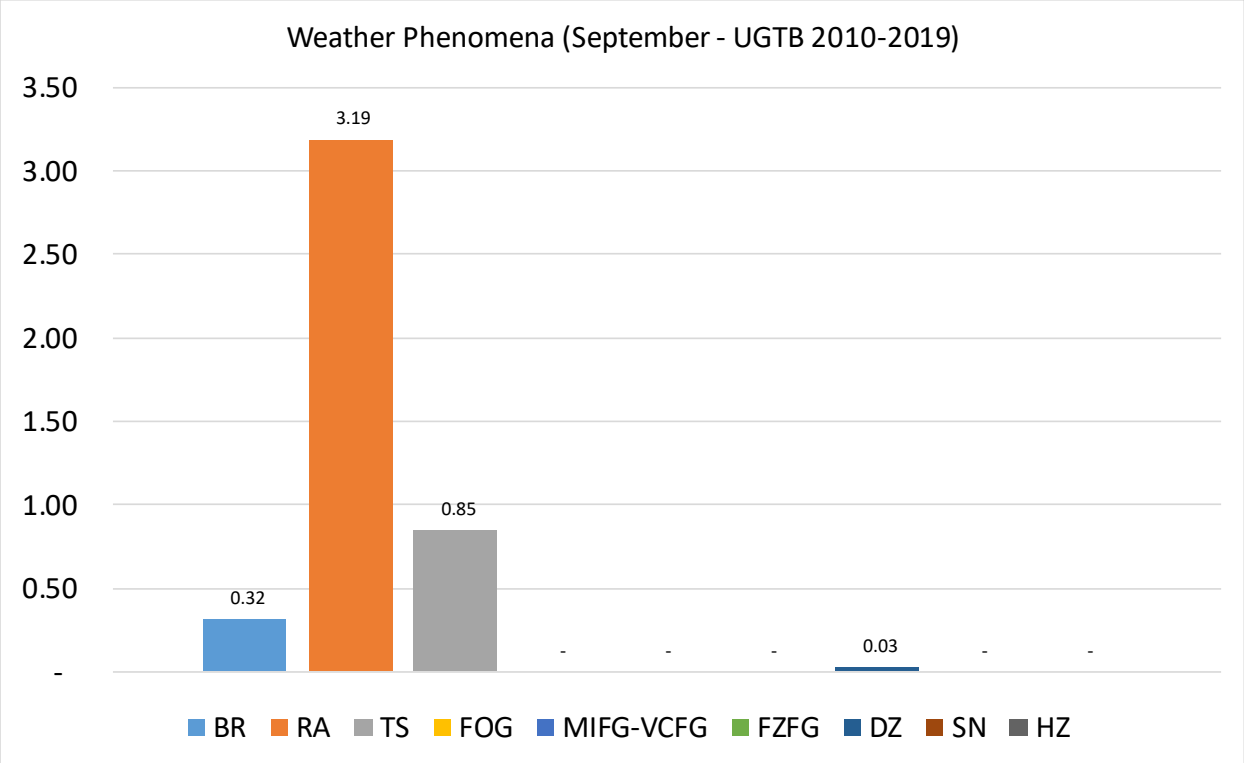
AERODROME: UGTB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 0.34 | 3.42 | 1.37 | - | - | - | - | - | - |
| 0030 | 0.34 | 4.38 | 1.01 | - | - | - | - | - | - |
| 0100 | 0.33 | 4.62 | 0.33 | - | - | - | - | - | - |
| 0130 | - | 4.30 | 0.66 | - | - | - | - | - | - |
| 0200 | - | 3.69 | - | - | - | - | - | - | - |
| 0230 | 0.33 | 3.32 | 0.33 | - | - | - | - | - | - |
| 0300 | 0.34 | 3.72 | - | - | - | - | - | - | - |
| 0330 | 0.68 | 2.37 | 0.68 | - | - | - | - | - | - |
| 0400 | 1.34 | 3.02 | 1.01 | - | - | - | - | - | - |
| 0430 | 1.01 | 3.04 | 0.34 | - | - | - | - | - | - |
| 0500 | 0.67 | 2.68 | 0.34 | - | - | - | - | - | - |
| 0530 | 0.69 | 3.09 | 0.34 | - | - | - | - | - | - |
| 0600 | 0.67 | 3.37 | 0.34 | - | - | - | - | - | - |
| 0630 | 0.33 | 2.33 | - | - | - | - | 0.33 | - | - |
| 0700 | - | 2.01 | - | - | - | - | - | - | - |
| 0730 | - | 1.37 | - | - | - | - | - | - | - |
| 0800 | - | 0.67 | 0.34 | - | - | - | 0.34 | - | - |
| 0830 | - | - | - | - | - | - | - | - | - |
| 0900 | - | 0.67 | - | - | - | - | - | - | - |
| 0930 | - | 0.68 | - | - | - | - | - | - | - |
| 1000 | 0.34 | 1.01 | 0.34 | - | - | - | - | - | - |
| 1030 | 0.34 | 1.34 | 0.67 | - | - | - | - | - | - |
| 1100 | 0.34 | 1.36 | 0.68 | - | - | - | - | - | - |
| 1130 | - | 2.05 | 1.02 | - | - | - | - | - | - |
| 1200 | 0.34 | 2.01 | 0.67 | - | - | - | - | - | - |
| 1230 | 0.33 | 2.97 | 0.33 | - | - | - | - | - | - |
| 1300 | 0.34 | 2.71 | 1.02 | - | - | - | - | - | - |
| 1330 | 0.34 | 2.70 | 0.34 | - | - | - | - | - | - |
| 1400 | 0.67 | 3.03 | 1.35 | - | - | - | - | - | - |
| 1430 | 0.34 | 4.38 | 1.35 | - | - | - | - | - | - |
| 1500 | - | 2.36 | 1.35 | - | - | - | - | - | - |
| 1530 | 0.34 | 3.38 | 0.68 | - | - | - | - | - | - |
| 1600 | 0.34 | 4.71 | 2.69 | - | - | - | - | - | - |
| 1630 | 0.34 | 6.76 | 3.04 | - | - | - | - | - | - |
| 1700 | 0.34 | 7.77 | 2.36 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.34 | 5.03 | 2.01 | - | - | - | - | - | - |
| 1800 | 0.67 | 3.68 | 2.34 | - | - | - | - | - | - |
| 1830 | - | 5.02 | 1.67 | - | - | - | - | - | - |
| 1900 | - | 4.71 | 1.35 | - | - | - | 0.34 | - | - |
| 1930 | - | 4.39 | 1.01 | - | - | - | - | - | - |
| 2000 | - | 3.70 | 1.01 | - | - | - | - | - | - |
| 2030 | 0.34 | 4.03 | 1.01 | - | - | - | - | - | - |
| 2100 | 0.34 | 4.04 | 0.67 | - | - | - | 0.34 | - | - |
| 2130 | 0.33 | 3.01 | 1.00 | - | - | - | - | - | - |
| 2200 | 0.33 | 2.68 | 1.00 | - | - | - | - | - | - |
| 2230 | 0.34 | 3.08 | 0.68 | - | - | - | - | - | - |
| 2300 | 0.33 | 3.30 | 0.66 | - | - | - | - | - | - |
| 2330 | 0.33 | 5.02 | 1.34 | - | - | - | - | - | - |
| Mean | 0.32 | 3.19 | 0.85 | - | - | - | 0.03 | - | - |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in September are: rain – 3.19%, mist – 0.32%, drizzle – 0.03%.

The activity of thunderstorms in September constitutes 0.85%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

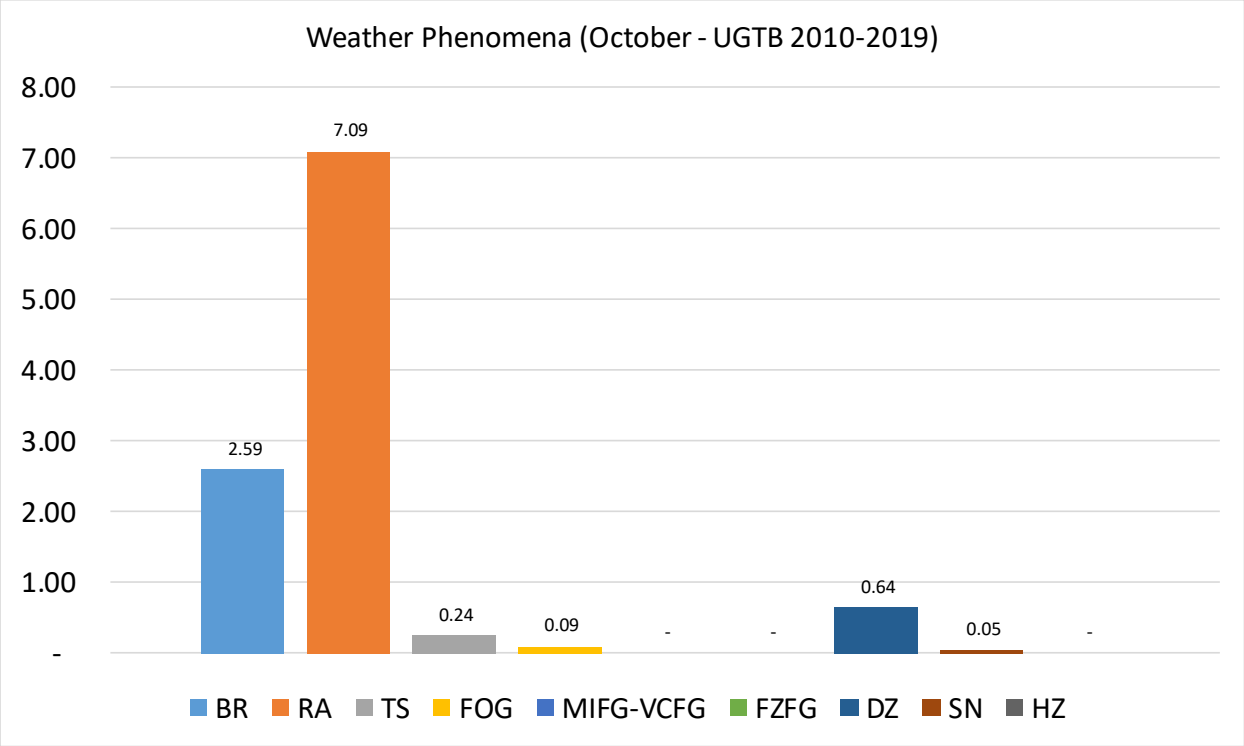
AERODROME: UGTB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 1.97 | 7.54 | 0.66 | - | - | - | 0.98 | 0.66 | - |
| 0030 | 2.92 | 8.77 | 0.32 | - | - | - | 0.97 | - | - |
| 0100 | 2.87 | 9.24 | - | 0.96 | - | - | 0.64 | - | - |
| 0130 | 3.90 | 7.47 | - | - | - | - | 0.65 | - | - |
| 0200 | 5.10 | 8.60 | - | 0.32 | - | - | 0.32 | - | - |
| 0230 | 3.88 | 7.44 | - | 0.32 | - | - | 0.32 | - | - |
| 0300 | 4.82 | 8.68 | - | - | - | - | 0.64 | - | - |
| 0330 | 7.21 | 6.89 | - | 0.33 | - | - | 1.31 | - | - |
| 0400 | 6.21 | 7.84 | - | 0.65 | - | - | 0.65 | - | - |
| 0430 | 5.84 | 8.12 | - | 0.32 | - | - | 0.32 | - | - |
| 0500 | 7.47 | 8.77 | 0.32 | - | - | - | 0.65 | - | - |
| 0530 | 5.90 | 8.52 | - | 0.33 | - | - | 0.66 | - | - |
| 0600 | 6.51 | 7.17 | - | - | - | - | 1.30 | - | - |
| 0630 | 4.61 | 7.24 | 0.33 | - | - | - | 1.32 | - | - |
| 0700 | 3.93 | 7.87 | - | - | - | - | 0.66 | - | - |
| 0730 | 4.26 | 6.56 | - | - | - | - | 1.31 | - | - |
| 0800 | 2.95 | 7.21 | - | - | - | - | 0.98 | - | - |
| 0830 | 2.67 | 6.67 | - | - | - | - | 0.67 | - | - |
| 0900 | 1.95 | 5.54 | - | - | - | - | 0.65 | - | - |
| 0930 | 1.64 | 7.24 | - | - | - | - | - | - | - |
| 1000 | 1.97 | 5.26 | - | - | - | - | - | - | - |
| 1030 | 1.64 | 6.58 | - | - | - | - | - | - | - |
| 1100 | 1.31 | 5.56 | - | - | - | - | - | - | - |
| 1130 | 1.32 | 4.28 | - | - | - | - | 0.33 | - | - |
| 1200 | 0.98 | 4.26 | 0.33 | - | - | - | 0.66 | - | - |
| 1230 | 0.98 | 7.82 | 0.98 | - | - | - | 0.33 | - | - |
| 1300 | 1.62 | 7.44 | 0.32 | - | - | - | - | - | - |
| 1330 | 0.66 | 7.54 | - | - | - | - | 0.33 | - | - |
| 1400 | 1.29 | 5.83 | - | - | - | - | 0.65 | - | - |
| 1430 | 0.65 | 6.51 | 0.65 | - | - | - | - | - | - |
| 1500 | 0.65 | 6.51 | 1.30 | - | - | - | 0.33 | - | - |
| 1530 | - | 7.44 | 0.65 | - | - | - | - | - | - |
| 1600 | - | 8.01 | 0.64 | - | - | - | - | - | - |
| 1630 | 0.65 | 6.17 | 0.32 | - | - | - | - | - | - |
| 1700 | 0.32 | 6.17 | - | - | - | - | 0.65 | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.65 | 5.18 | 0.65 | - | - | - | 0.32 | - | - |
| 1800 | 0.97 | 5.83 | 0.65 | - | - | - | 0.65 | - | - |
| 1830 | 0.33 | 5.57 | 0.66 | - | - | - | 1.31 | - | - |
| 1900 | 1.30 | 7.47 | 0.32 | - | - | - | 0.65 | - | - |
| 1930 | 1.94 | 6.80 | - | - | - | - | 1.29 | - | - |
| 2000 | 1.30 | 5.86 | 0.33 | - | - | - | 0.98 | - | - |
| 2030 | 1.30 | 6.82 | 0.32 | - | - | - | 0.97 | - | - |
| 2100 | 2.29 | 7.52 | - | - | - | - | 1.31 | - | - |
| 2130 | 2.64 | 8.58 | 0.33 | - | - | - | 1.32 | 0.33 | - |
| 2200 | 2.62 | 7.87 | 0.33 | 0.33 | - | - | 0.66 | 0.33 | - |
| 2230 | 2.61 | 7.82 | - | 0.65 | - | - | 0.98 | 0.33 | - |
| 2300 | 2.58 | 7.42 | 0.32 | 0.32 | - | - | 1.29 | 0.32 | - |
| 2330 | 2.94 | 8.82 | 0.65 | - | - | - | 0.65 | 0.33 | - |
| Mean | 2.59 | 7.09 | 0.24 | 0.09 | - | - | 0.64 | 0.05 | - |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in October are: rain – 7.09%, mist – 2.59%, drizzle – 0.64%.

The activity of thunderstorms in October constitutes 0.24%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

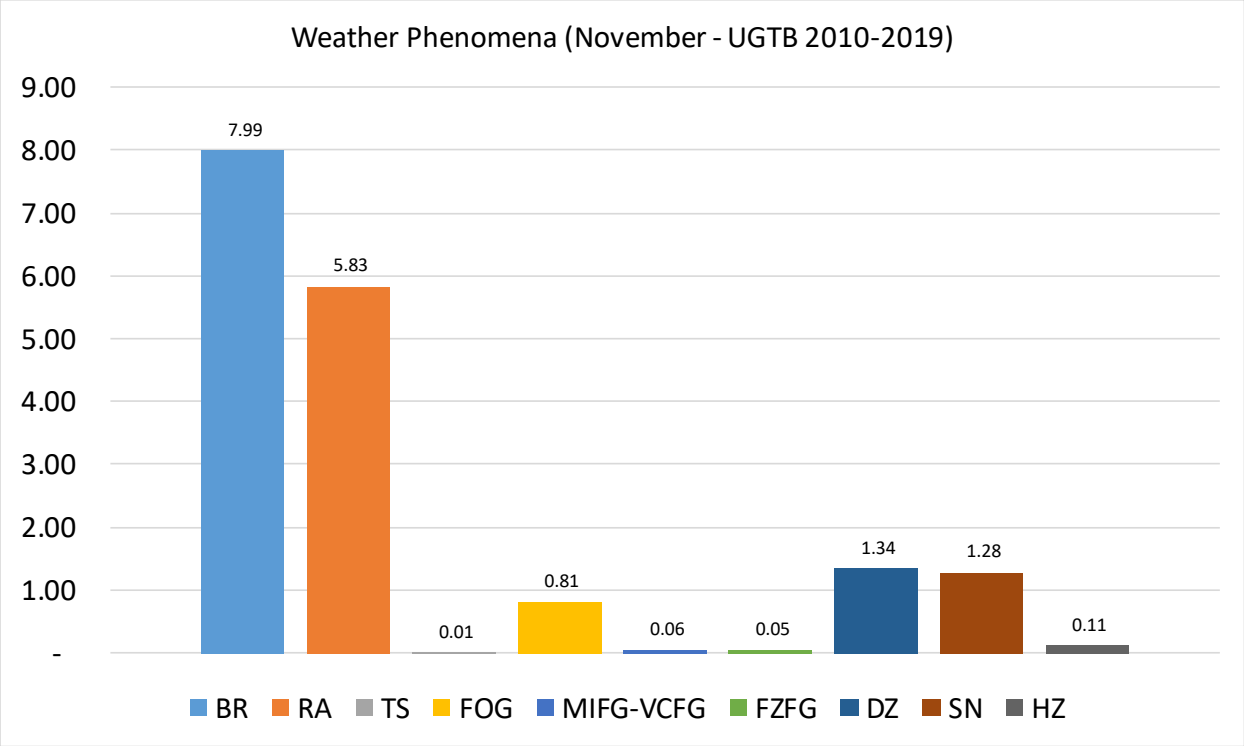
AERODROME: UGTB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14400 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 7.72 | 6.38 | - | 1.01 | - | - | 2.35 | 0.67 | - |
| 0030 | 7.77 | 7.09 | - | 1.01 | - | - | 1.69 | 0.68 | - |
| 0100 | 9.63 | 7.64 | - | 0.33 | - | - | 1.00 | 1.33 | - |
| 0130 | 8.64 | 6.98 | - | 0.66 | - | - | 1.33 | 1.66 | - |
| 0200 | 9.30 | 6.98 | - | 1.00 | - | - | 0.33 | 1.99 | - |
| 0230 | 6.67 | 7.00 | - | 1.00 | 0.33 | 0.33 | 1.00 | 2.00 | - |
| 0300 | 6.02 | 6.69 | - | 1.34 | 0.33 | 0.33 | 0.67 | 2.01 | - |
| 0330 | 7.92 | 5.94 | - | 1.65 | 0.33 | 0.33 | 1.32 | 1.65 | - |
| 0400 | 15.77 | 5.03 | - | 3.02 | - | 0.34 | 2.35 | 1.68 | - |
| 0430 | 16.23 | 5.96 | - | 2.98 | - | 0.33 | 1.66 | 1.32 | - |
| 0500 | 15.33 | 7.33 | - | 2.67 | - | 0.33 | 0.67 | 1.67 | - |
| 0530 | 17.17 | 6.73 | - | 1.01 | - | 0.34 | 1.01 | 1.68 | - |
| 0600 | 14.81 | 6.40 | - | 2.36 | - | - | 1.35 | 2.02 | - |
| 0630 | 14.09 | 5.37 | - | 1.68 | - | - | 2.35 | 1.34 | - |
| 0700 | 13.49 | 5.26 | - | 0.99 | - | - | 2.63 | 1.64 | - |
| 0730 | 11.82 | 5.74 | - | 1.01 | - | - | 1.35 | 1.35 | - |
| 0800 | 9.36 | 6.02 | - | 1.67 | - | - | 1.00 | 1.34 | - |
| 0830 | 10.07 | 5.03 | - | 0.67 | - | - | 0.34 | 1.34 | - |
| 0900 | 7.38 | 4.36 | - | 0.67 | - | - | 0.67 | 0.67 | - |
| 0930 | 8.75 | 4.38 | - | 0.34 | - | - | - | 1.01 | - |
| 1000 | 7.00 | 5.33 | - | 0.67 | - | - | 1.00 | 1.00 | - |
| 1030 | 6.02 | 5.69 | - | 0.67 | - | - | 1.34 | 1.67 | - |
| 1100 | 5.37 | 5.03 | - | 0.34 | - | - | 1.01 | 1.68 | - |
| 1130 | 5.70 | 5.37 | - | 0.34 | - | - | 1.01 | 1.01 | - |
| 1200 | 5.30 | 5.30 | - | 0.33 | - | - | 1.32 | 1.32 | - |
| 1230 | 5.44 | 4.76 | - | 0.68 | - | - | 2.04 | 1.36 | - |
| 1300 | 5.96 | 4.64 | - | 0.33 | - | - | 2.32 | 1.32 | 0.33 |
| 1330 | 7.64 | 6.31 | - | - | - | - | 1.00 | 1.00 | 1.00 |
| 1400 | 9.09 | 7.07 | - | - | - | - | 1.01 | 1.35 | 1.01 |
| 1430 | 4.67 | 6.67 | - | 0.33 | - | - | 0.33 | 1.33 | 1.00 |
| 1500 | 3.70 | 6.06 | - | - | 0.34 | - | 1.68 | 1.01 | 0.67 |
| 1530 | 3.37 | 4.38 | - | 0.34 | - | - | 1.68 | 0.67 | 0.67 |
| 1600 | 4.03 | 4.70 | - | 0.34 | - | - | 2.35 | 1.01 | 0.34 |
| 1630 | 3.99 | 4.98 | - | 0.33 | - | - | 1.99 | 1.00 | - |
| 1700 | 3.67 | 6.67 | - | - | - | - | 1.33 | 1.33 | 0.33 |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 3.67 | 5.00 | - | 1.00 | - | - | 1.33 | 1.00 | - |
| 1800 | 4.04 | 4.71 | - | 0.34 | - | - | 1.01 | 1.01 | - |
| 1830 | 5.00 | 5.67 | 0.33 | 0.33 | - | - | 1.33 | 0.67 | - |
| 1900 | 5.65 | 5.32 | - | 0.66 | - | - | 1.33 | 1.00 | - |
| 1930 | 4.35 | 5.02 | - | 0.33 | 0.33 | - | 0.67 | 1.00 | - |
| 2000 | 6.62 | 4.97 | - | 0.33 | 0.33 | - | 0.99 | 0.66 | - |
| 2030 | 7.52 | 4.90 | - | 0.65 | - | - | 0.65 | 0.98 | - |
| 2100 | 7.95 | 4.64 | - | 0.33 | 0.33 | - | 0.99 | 1.32 | - |
| 2130 | 8.22 | 5.59 | - | 0.33 | 0.33 | - | 2.30 | 1.32 | - |
| 2200 | 8.00 | 7.00 | - | 0.33 | - | - | 2.33 | 1.00 | - |
| 2230 | 7.74 | 7.07 | - | 0.34 | - | - | 1.68 | 1.68 | - |
| 2300 | 8.11 | 7.09 | - | 0.68 | - | - | 1.35 | 1.69 | - |
| 2330 | 7.67 | 7.67 | - | 1.33 | - | - | 2.00 | 1.00 | - |
| Mean | 7.99 | 5.83 | 0.01 | 0.81 | 0.06 | 0.05 | 1.34 | 1.28 | 0.11 |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in November are: mist – 7.99%, rain – 5.83%, drizzle – 1.34%.

The activity of thunderstorms in November constitutes 0.01%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

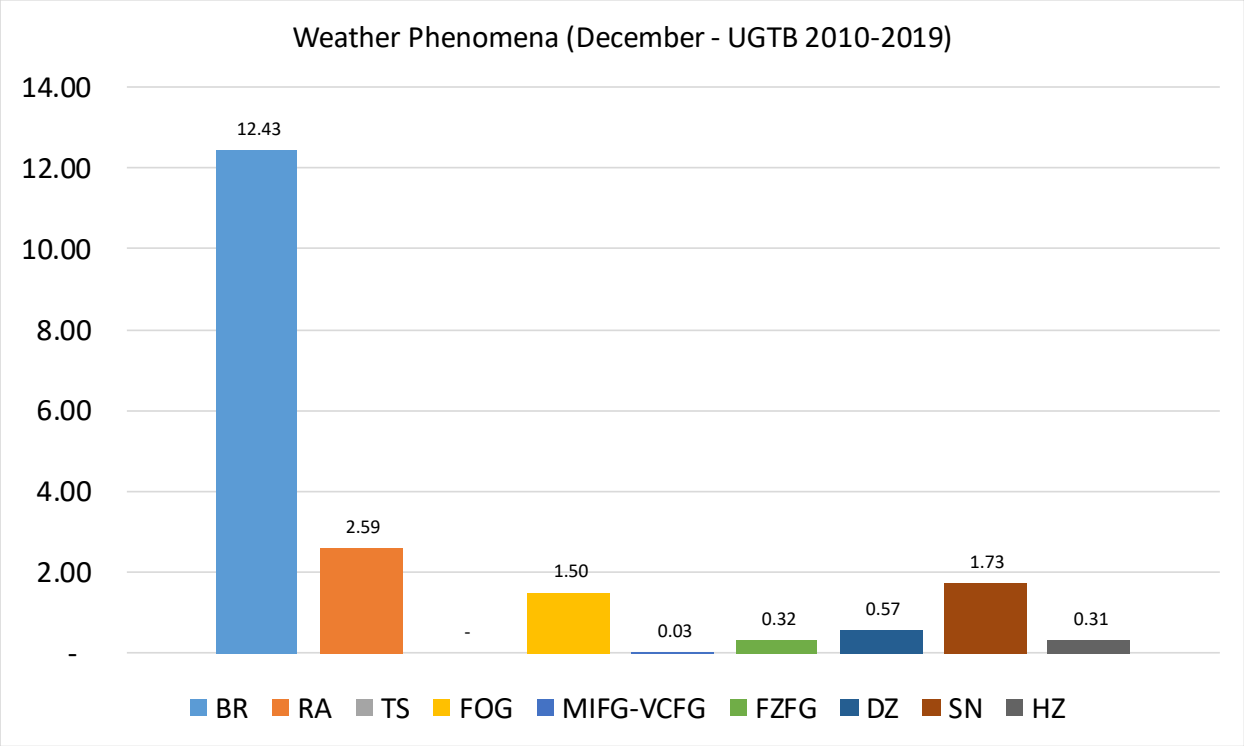
AERODROME: UGTB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 14880 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 12.94 | 2.27 | - | 1.94 | - | 0.32 | - | 1.94 | - |
| 0030 | 11.90 | 2.89 | - | 2.57 | - | 0.64 | 0.32 | 1.93 | - |
| 0100 | 13.23 | 2.58 | - | 2.90 | - | 0.97 | 0.65 | 1.61 | - |
| 0130 | 10.86 | 3.19 | - | 2.88 | 0.64 | 1.28 | 0.32 | 1.60 | - |
| 0200 | 11.07 | 2.93 | - | 2.61 | - | 1.30 | - | 1.95 | - |
| 0230 | 11.08 | 2.85 | - | 2.53 | - | 0.63 | 0.32 | 0.95 | - |
| 0300 | 10.06 | 2.60 | - | 3.90 | - | 0.65 | 0.32 | 1.95 | - |
| 0330 | 11.61 | 2.58 | - | 3.23 | - | 0.65 | 0.32 | 1.29 | - |
| 0400 | 12.18 | 2.24 | - | 2.24 | - | 0.96 | 0.96 | 1.60 | - |
| 0430 | 20.85 | 0.98 | - | 2.28 | - | 0.65 | 1.30 | 1.30 | - |
| 0500 | 18.89 | 1.95 | - | 3.26 | - | 0.98 | 1.30 | 0.98 | - |
| 0530 | 18.63 | 1.96 | - | 2.94 | - | 0.65 | 1.31 | 1.31 | - |
| 0600 | 20.45 | 2.27 | - | 0.97 | - | 0.65 | 0.97 | 1.95 | - |
| 0630 | 21.64 | 1.64 | - | 1.31 | - | - | 1.31 | 1.64 | - |
| 0700 | 19.09 | 2.27 | - | 1.94 | - | - | 1.62 | 1.62 | - |
| 0730 | 15.31 | 2.61 | - | 1.95 | - | - | 0.98 | 1.63 | - |
| 0800 | 14.79 | 2.25 | - | 0.96 | - | - | 0.64 | 1.93 | 0.32 |
| 0830 | 13.73 | 2.61 | - | 0.33 | - | - | 0.65 | 2.29 | 0.33 |
| 0900 | 13.11 | 2.95 | - | 0.66 | - | - | 0.98 | 2.30 | - |
| 0930 | 11.07 | 1.95 | - | 0.33 | - | - | 0.65 | 2.28 | - |
| 1000 | 11.29 | 1.94 | - | 0.32 | - | - | 0.32 | 1.61 | - |
| 1030 | 10.71 | 1.95 | - | - | - | - | 1.30 | 1.62 | 0.97 |
| 1100 | 10.03 | 1.94 | - | - | - | - | 0.65 | 2.27 | 0.65 |
| 1130 | 8.44 | 2.92 | - | 0.32 | - | - | 0.65 | 1.95 | 0.97 |
| 1200 | 9.12 | 2.61 | - | - | - | - | 0.65 | 1.95 | 1.30 |
| 1230 | 10.49 | 2.95 | - | - | - | - | 0.98 | 1.97 | 1.97 |
| 1300 | 12.86 | 3.54 | - | - | - | - | - | 1.93 | 2.57 |
| 1330 | 16.01 | 2.29 | - | - | - | - | 0.33 | 1.96 | 1.96 |
| 1400 | 12.94 | 2.59 | - | - | 0.32 | - | 0.65 | 1.62 | 1.94 |
| 1430 | 9.06 | 2.27 | - | - | 0.32 | - | 0.32 | 1.29 | 0.65 |
| 1500 | 10.65 | 2.90 | - | - | - | - | 0.32 | 1.29 | 0.32 |
| 1530 | 10.32 | 2.58 | - | 0.65 | - | - | - | 1.29 | 0.32 |
| 1600 | 10.65 | 2.58 | - | 0.65 | - | 0.32 | 0.65 | 1.29 | 0.32 |
| 1630 | 10.36 | 3.24 | - | 0.97 | - | - | 0.32 | 1.29 | 0.32 |
| 1700 | 9.71 | 3.56 | - | 1.29 | - | - | 0.32 | 1.29 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 9.68 | 2.90 | - | 0.97 | - | - | 0.32 | 1.29 | - |
| 1800 | 9.42 | 2.27 | - | 0.97 | - | - | 0.65 | 1.30 | - |
| 1830 | 11.00 | 3.56 | - | 0.97 | - | - | 0.32 | 0.97 | - |
| 1900 | 10.68 | 3.88 | - | 0.97 | - | - | 0.65 | 1.29 | - |
| 1930 | 9.68 | 2.58 | - | 1.61 | - | 0.32 | 0.32 | 1.29 | - |
| 2000 | 9.32 | 3.22 | - | 1.93 | - | 0.32 | 0.32 | 1.93 | - |
| 2030 | 9.45 | 2.61 | - | 2.61 | - | 0.33 | 0.33 | 1.95 | - |
| 2100 | 11.44 | 2.29 | - | 1.96 | - | 1.31 | 0.65 | 2.61 | - |
| 2130 | 11.97 | 2.91 | - | 2.59 | - | 0.32 | 0.65 | 2.59 | - |
| 2200 | 13.18 | 2.57 | - | 1.93 | - | 0.64 | 0.64 | 2.57 | - |
| 2230 | 11.54 | 2.88 | - | 2.88 | - | 0.64 | - | 2.56 | - |
| 2300 | 11.65 | 2.91 | - | 3.24 | - | 0.32 | 0.32 | 2.27 | - |
| 2330 | 12.66 | 2.27 | - | 3.57 | - | 0.32 | - | 1.95 | - |
| Mean | 12.43 | 2.59 | - | 1.50 | 0.03 | 0.32 | 0.57 | 1.73 | 0.31 |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in December are: mist – 12.43%, rain – 2.59%, snow – 1.73%.

No thunderstorm activities were observed in December.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

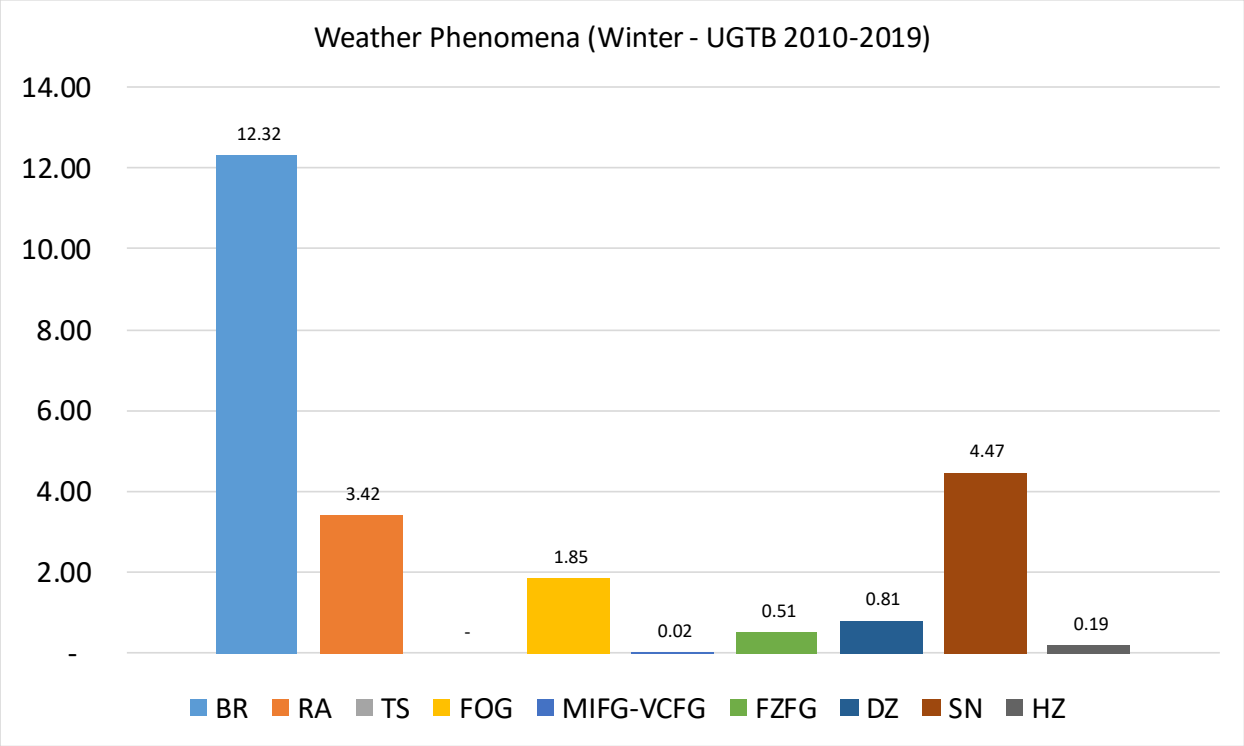
AERODROME: UGTB SEASON: WINTER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 43296 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 12.97 | 3.41 | - | 2.16 | - | 0.68 | 1.02 | 5.12 | - |
| 0030 | 12.66 | 4.41 | - | 2.49 | - | 1.13 | 0.79 | 5.65 | - |
| 0100 | 12.87 | 4.29 | - | 2.48 | - | 1.02 | 0.45 | 5.42 | - |
| 0130 | 11.89 | 4.64 | - | 2.60 | 0.23 | 0.91 | 0.23 | 5.44 | - |
| 0200 | 12.68 | 4.64 | - | 2.49 | - | 0.91 | 0.34 | 5.44 | - |
| 0230 | 12.10 | 4.30 | - | 3.73 | - | 0.90 | 0.45 | 5.54 | - |
| 0300 | 11.95 | 4.10 | - | 3.87 | - | 0.80 | 0.46 | 5.69 | - |
| 0330 | 12.73 | 3.41 | - | 3.86 | 0.11 | 1.14 | 0.68 | 5.68 | - |
| 0400 | 14.81 | 3.19 | - | 3.87 | - | 1.48 | 1.03 | 5.35 | - |
| 0430 | 19.61 | 2.98 | - | 4.01 | - | 1.15 | 1.03 | 4.93 | - |
| 0500 | 19.63 | 3.54 | - | 4.57 | - | 1.26 | 1.48 | 5.25 | - |
| 0530 | 20.34 | 3.54 | - | 3.89 | - | 1.14 | 1.26 | 5.71 | - |
| 0600 | 20.09 | 2.97 | - | 2.63 | - | 1.03 | 0.80 | 5.94 | 0.11 |
| 0630 | 20.94 | 3.43 | - | 2.52 | - | 0.69 | 0.69 | 5.26 | 0.11 |
| 0700 | 18.81 | 2.85 | - | 2.74 | - | 0.57 | 1.14 | 5.13 | 0.11 |
| 0730 | 16.72 | 3.32 | - | 2.41 | - | 0.11 | 0.69 | 5.27 | 0.11 |
| 0800 | 15.86 | 3.17 | - | 1.47 | - | 0.11 | 0.79 | 4.53 | 0.23 |
| 0830 | 14.56 | 3.64 | - | 1.02 | - | 0.23 | 1.14 | 5.01 | 0.34 |
| 0900 | 13.01 | 4.11 | - | 0.80 | - | - | 1.03 | 4.22 | 0.11 |
| 0930 | 12.00 | 3.09 | - | 0.23 | - | 0.11 | 0.46 | 4.69 | 0.11 |
| 1000 | 11.69 | 2.95 | - | 0.57 | - | 0.11 | 0.45 | 4.31 | 0.11 |
| 1030 | 11.01 | 2.75 | - | 0.46 | - | - | 0.80 | 4.13 | 0.46 |
| 1100 | 10.75 | 2.94 | - | 0.34 | - | - | 0.45 | 4.30 | 0.34 |
| 1130 | 9.66 | 3.30 | - | 0.23 | - | 0.11 | 0.68 | 3.64 | 0.45 |
| 1200 | 9.07 | 2.72 | - | 0.23 | - | - | 0.68 | 3.06 | 0.68 |
| 1230 | 9.54 | 2.87 | - | 0.57 | - | - | 0.80 | 3.10 | 1.03 |
| 1300 | 11.45 | 3.17 | - | 0.34 | - | - | 0.45 | 3.17 | 1.13 |
| 1330 | 12.66 | 2.88 | - | 0.23 | - | - | 0.69 | 2.53 | 0.92 |
| 1400 | 11.70 | 2.84 | - | 0.11 | 0.23 | - | 0.68 | 2.95 | 1.25 |
| 1430 | 9.01 | 2.74 | - | 0.11 | 0.11 | - | 0.57 | 2.62 | 0.57 |
| 1500 | 9.46 | 2.39 | - | 0.23 | - | 0.11 | 1.03 | 2.85 | 0.34 |
| 1530 | 8.41 | 2.84 | - | 0.68 | - | - | 0.57 | 2.95 | 0.23 |
| 1600 | 8.68 | 2.85 | - | 0.68 | - | 0.23 | 1.14 | 2.97 | 0.23 |
| 1630 | 9.35 | 3.08 | - | 0.57 | 0.11 | 0.23 | 0.68 | 2.96 | 0.11 |
| 1700 | 9.24 | 3.53 | - | 0.91 | - | 0.34 | 0.91 | 2.96 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 9.56 | 3.64 | - | 1.02 | - | 0.46 | 1.14 | 3.30 | - |
| 1800 | 9.57 | 2.73 | - | 1.37 | - | 0.46 | 0.80 | 3.42 | - |
| 1830 | 9.79 | 3.30 | - | 1.82 | - | 0.68 | 0.91 | 3.53 | - |
| 1900 | 9.49 | 3.20 | - | 1.60 | - | 0.34 | 0.91 | 4.46 | - |
| 1930 | 9.21 | 3.34 | - | 1.84 | - | 0.46 | 0.81 | 4.72 | - |
| 2000 | 9.31 | 3.63 | - | 2.16 | - | 0.57 | 0.91 | 5.11 | - |
| 2030 | 9.17 | 3.44 | - | 2.87 | - | 0.46 | 1.03 | 4.93 | - |
| 2100 | 10.07 | 3.89 | - | 2.17 | - | 1.03 | 0.80 | 5.15 | - |
| 2130 | 10.38 | 4.56 | - | 2.74 | - | 0.80 | 0.80 | 5.47 | - |
| 2200 | 11.50 | 4.56 | - | 2.85 | - | 0.68 | 0.68 | 5.47 | - |
| 2230 | 11.30 | 3.77 | - | 2.63 | - | 0.80 | 0.91 | 5.37 | - |
| 2300 | 11.80 | 3.67 | - | 3.09 | - | 0.69 | 1.26 | 5.27 | - |
| 2330 | 12.27 | 3.36 | - | 2.66 | - | 0.46 | 1.16 | 4.40 | - |
| Mean | 12.32 | 3.42 | - | 1.85 | 0.02 | 0.51 | 0.81 | 4.47 | 0.19 |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in Winter are: mist – 12.32%, snow – 4.47%, rain – 3.42%.

No thunderstorm activities were observed in Winter.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

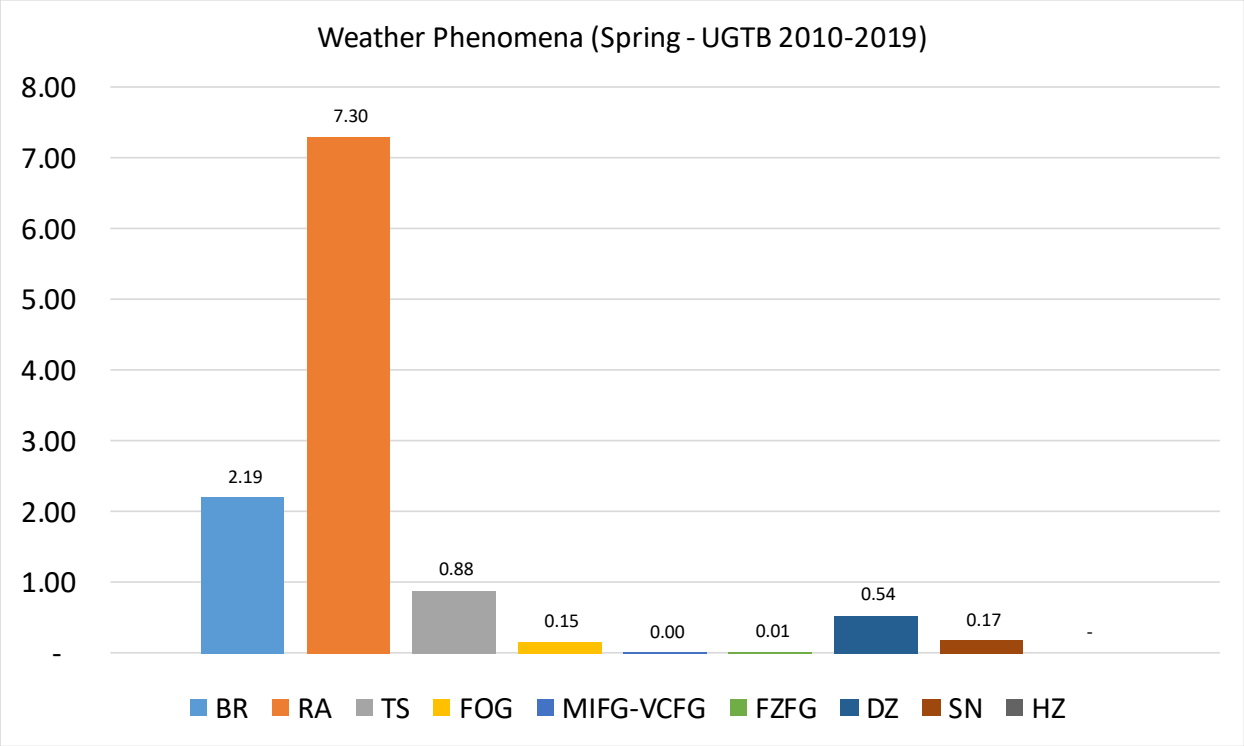
AERODROME: UGTB SEASON: SPRING PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 44160 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 1.57 | 8.07 | 0.22 | 0.22 | - | - | 0.45 | 0.22 | - |
| 0030 | 1.74 | 6.98 | 0.33 | 0.22 | - | 0.11 | 0.65 | 0.33 | - |
| 0100 | 1.53 | 8.19 | 0.11 | 0.33 | - | 0.11 | 0.55 | 0.33 | - |
| 0130 | 2.09 | 7.24 | 0.33 | 0.44 | 0.11 | - | 0.55 | 0.22 | - |
| 0200 | 2.07 | 6.96 | - | 0.65 | - | - | 0.33 | 0.22 | - |
| 0230 | 2.93 | 6.41 | - | 0.43 | - | - | 0.22 | 0.22 | - |
| 0300 | 4.31 | 5.75 | - | 0.55 | - | - | 0.11 | 0.22 | - |
| 0330 | 6.15 | 7.36 | 0.22 | 0.66 | - | - | 0.44 | 0.22 | - |
| 0400 | 6.37 | 6.81 | 0.33 | 0.44 | - | - | 1.21 | 0.33 | - |
| 0430 | 5.52 | 6.30 | - | 0.44 | - | 0.11 | 0.77 | 0.33 | - |
| 0500 | 5.56 | 6.00 | - | 0.65 | - | 0.11 | 0.98 | 0.22 | - |
| 0530 | 5.40 | 6.17 | - | 0.66 | - | - | 0.99 | 0.66 | - |
| 0600 | 4.38 | 5.59 | 0.11 | 0.44 | - | - | 0.77 | 0.55 | - |
| 0630 | 4.30 | 5.85 | 0.44 | 0.11 | - | - | 0.77 | 0.44 | - |
| 0700 | 3.85 | 6.16 | 0.11 | - | - | - | 0.66 | 0.55 | - |
| 0730 | 2.99 | 5.43 | 0.22 | 0.11 | - | - | 0.78 | - | - |
| 0800 | 2.87 | 4.96 | 0.44 | 0.22 | - | - | 0.55 | - | - |
| 0830 | 2.09 | 5.82 | 0.44 | - | - | - | 0.33 | - | - |
| 0900 | 1.75 | 5.47 | 0.77 | - | - | - | 0.77 | - | - |
| 0930 | 1.78 | 5.90 | 0.67 | - | - | - | 0.67 | 0.11 | - |
| 1000 | 1.33 | 5.54 | 1.11 | - | - | - | 0.55 | 0.11 | - |
| 1030 | 1.56 | 6.01 | 1.22 | - | - | - | 0.67 | 0.11 | - |
| 1100 | 1.55 | 4.75 | 0.33 | - | - | - | 0.44 | 0.22 | - |
| 1130 | 1.21 | 6.14 | 0.77 | - | - | - | 0.77 | 0.11 | - |
| 1200 | 0.88 | 5.72 | 1.21 | - | - | 0.11 | 0.55 | 0.11 | - |
| 1230 | 0.99 | 7.38 | 1.76 | - | - | - | 0.22 | 0.11 | - |
| 1300 | 0.99 | 7.51 | 2.43 | - | - | - | 0.55 | 0.11 | - |
| 1330 | 1.00 | 8.10 | 2.77 | - | - | - | 0.44 | 0.11 | - |
| 1400 | 0.78 | 7.97 | 2.33 | - | - | - | 0.33 | 0.11 | - |
| 1430 | 1.10 | 7.40 | 1.99 | - | - | - | 0.33 | 0.11 | - |
| 1500 | 1.32 | 7.48 | 1.87 | - | - | - | - | 0.11 | - |
| 1530 | 1.21 | 8.60 | 1.76 | - | - | - | 0.11 | 0.11 | - |
| 1600 | 1.20 | 8.75 | 2.08 | - | - | - | - | 0.11 | - |
| 1630 | 0.99 | 8.65 | 1.97 | - | - | - | 0.44 | - | - |
| 1700 | 0.89 | 8.86 | 1.33 | - | - | - | 0.22 | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.66 | 8.89 | 1.65 | - | - | - | 0.55 | - | - |
| 1800 | 0.98 | 8.96 | 1.86 | - | - | - | 0.44 | - | - |
| 1830 | 1.10 | 8.81 | 1.65 | 0.11 | - | - | 0.66 | 0.11 | - |
| 1900 | 1.31 | 8.63 | 1.75 | 0.11 | - | - | 0.44 | 0.11 | - |
| 1930 | 1.53 | 8.08 | 1.42 | - | - | - | 0.66 | - | - |
| 2000 | 1.74 | 9.05 | 1.85 | - | - | - | 0.44 | 0.11 | - |
| 2030 | 1.87 | 8.68 | 1.21 | - | - | - | 0.66 | 0.11 | - |
| 2100 | 1.74 | 8.50 | 0.65 | - | - | - | 0.65 | 0.11 | - |
| 2130 | 1.74 | 9.47 | 0.33 | - | - | - | 0.54 | 0.22 | - |
| 2200 | 1.94 | 9.04 | 0.11 | - | - | - | 0.65 | 0.11 | - |
| 2230 | 1.86 | 9.29 | 0.11 | - | - | - | 0.77 | 0.22 | - |
| 2300 | 1.21 | 8.14 | - | 0.11 | - | - | 0.55 | 0.22 | - |
| 2330 | 1.32 | 8.38 | 0.11 | 0.22 | - | - | 0.55 | 0.33 | - |
| Mean | 2.19 | 7.30 | 0.88 | 0.15 | 0.00 | 0.01 | 0.54 | 0.17 | - |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in Spring are: rain – 7.30%, mist – 2.19%, drizzle – 0.54%.

The activity of thunderstorms in Spring constitutes 0.88%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

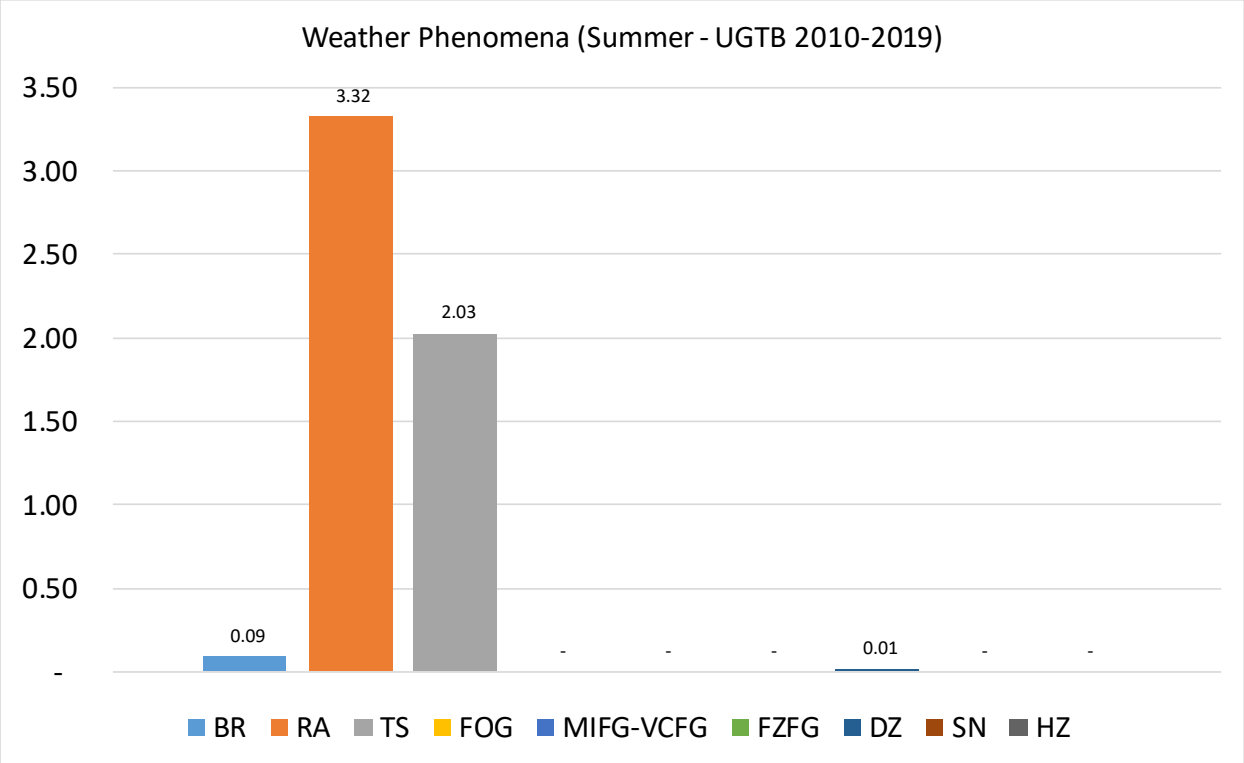
AERODROME: UGTB SEASON: SUMMER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 44160 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | - | 3.64 | 1.32 | - | - | - | - | - | - |
| 0030 | - | 3.82 | 1.53 | - | - | - | - | - | - |
| 0100 | 0.11 | 2.95 | 1.53 | - | - | - | 0.11 | - | - |
| 0130 | 0.11 | 4.07 | 1.10 | - | - | - | 0.22 | - | - |
| 0200 | 0.22 | 4.06 | 0.99 | - | - | - | - | - | - |
| 0230 | 0.33 | 4.06 | 0.66 | - | - | - | - | - | - |
| 0300 | 0.22 | 2.73 | 1.09 | - | - | - | - | - | - |
| 0330 | 0.22 | 3.50 | 0.87 | - | - | - | - | - | - |
| 0400 | 0.22 | 2.83 | 0.54 | - | - | - | - | - | - |
| 0430 | 0.22 | 2.31 | 0.11 | - | - | - | - | - | - |
| 0500 | 0.22 | 1.95 | 0.11 | - | - | - | - | - | - |
| 0530 | 0.22 | 1.87 | - | - | - | - | - | - | - |
| 0600 | 0.33 | 1.97 | - | - | - | - | 0.11 | - | - |
| 0630 | 0.44 | 2.10 | 0.44 | - | - | - | - | - | - |
| 0700 | 0.33 | 1.86 | 0.55 | - | - | - | - | - | - |
| 0730 | 0.33 | 1.54 | 0.33 | - | - | - | - | - | - |
| 0800 | 0.22 | 1.75 | 0.44 | - | - | - | - | - | - |
| 0830 | 0.11 | 0.77 | 0.22 | - | - | - | - | - | - |
| 0900 | 0.11 | 0.98 | 0.44 | - | - | - | - | - | - |
| 0930 | 0.11 | 1.43 | 0.88 | - | - | - | - | - | - |
| 1000 | - | 1.21 | 0.88 | - | - | - | - | - | - |
| 1030 | - | 1.31 | 0.88 | - | - | - | - | - | - |
| 1100 | - | 1.43 | 1.43 | - | - | - | - | - | - |
| 1130 | - | 1.76 | 1.10 | - | - | - | - | - | - |
| 1200 | - | 1.65 | 1.43 | - | - | - | - | - | - |
| 1230 | - | 1.66 | 1.55 | - | - | - | - | - | - |
| 1300 | - | 1.97 | 1.97 | - | - | - | - | - | - |
| 1330 | - | 2.52 | 2.52 | - | - | - | 0.22 | - | - |
| 1400 | - | 3.17 | 3.17 | - | - | - | - | - | - |
| 1430 | - | 3.49 | 4.15 | - | - | - | - | - | - |
| 1500 | - | 4.05 | 5.03 | - | - | - | - | - | - |
| 1530 | - | 3.97 | 4.30 | - | - | - | - | - | - |
| 1600 | - | 3.94 | 4.05 | - | - | - | - | - | - |
| 1630 | - | 4.56 | 4.12 | - | - | - | - | - | - |
| 1700 | 0.11 | 4.64 | 4.30 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 5.97 | 4.86 | - | - | - | - | - | - |
| 1800 | - | 4.58 | 4.25 | - | - | - | - | - | - |
| 1830 | - | 4.94 | 4.61 | - | - | - | - | - | - |
| 1900 | - | 4.54 | 3.87 | - | - | - | - | - | - |
| 1930 | - | 6.06 | 4.19 | - | - | - | - | - | - |
| 2000 | - | 5.72 | 4.51 | - | - | - | - | - | - |
| 2030 | - | 6.62 | 3.31 | - | - | - | - | - | - |
| 2100 | - | 5.25 | 2.73 | - | - | - | - | - | - |
| 2130 | - | 5.77 | 3.16 | - | - | - | - | - | - |
| 2200 | - | 5.51 | 2.65 | - | - | - | - | - | - |
| 2230 | 0.11 | 4.96 | 2.09 | - | - | - | - | - | - |
| 2300 | - | 4.50 | 1.54 | - | - | - | - | - | - |
| 2330 | - | 3.56 | 1.44 | - | - | - | - | - | - |
| Mean | 0.09 | 3.32 | 2.03 | - | - | - | 0.01 | - | - |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in Summer are: rain – 3.32%, mist – 0.09%, drizzle - 0.01%.

The activity of thunderstorms in Summer constitutes 2.03%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

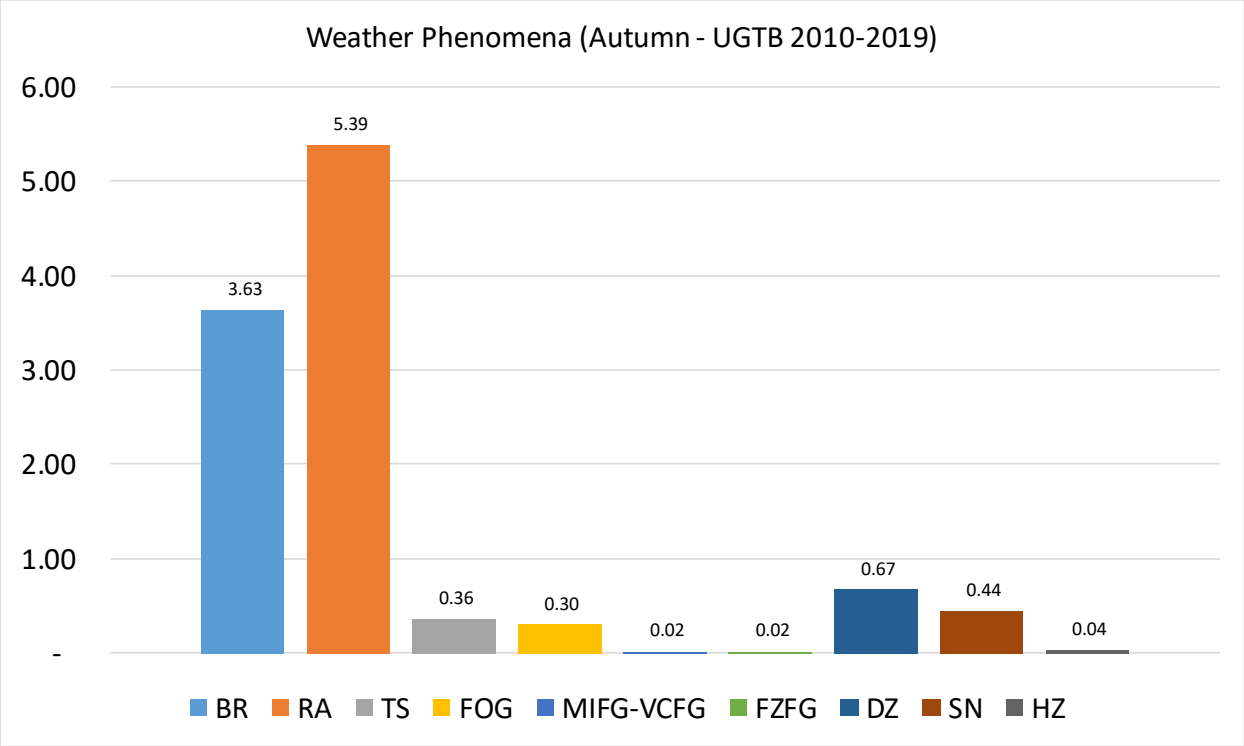
AERODROME: UGTB SEASON: AUTUMN PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 43680 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 3.35 | 5.81 | 0.67 | 0.34 | - | - | 1.12 | 0.45 | - |
| 0030 | 3.66 | 6.77 | 0.44 | 0.33 | - | - | 0.89 | 0.22 | - |
| 0100 | 4.25 | 7.19 | 0.11 | 0.44 | - | - | 0.54 | 0.44 | - |
| 0130 | 4.17 | 6.26 | 0.22 | 0.22 | - | - | 0.66 | 0.55 | - |
| 0200 | 4.82 | 6.46 | - | 0.44 | - | - | 0.22 | 0.66 | - |
| 0230 | 3.63 | 5.93 | 0.11 | 0.44 | 0.11 | 0.11 | 0.44 | 0.66 | - |
| 0300 | 3.75 | 6.40 | - | 0.44 | 0.11 | 0.11 | 0.44 | 0.66 | - |
| 0330 | 5.32 | 5.09 | 0.22 | 0.66 | 0.11 | 0.11 | 0.89 | 0.55 | - |
| 0400 | 7.76 | 5.32 | 0.33 | 1.22 | - | 0.11 | 1.00 | 0.55 | - |
| 0430 | 7.73 | 5.74 | 0.11 | 1.10 | - | 0.11 | 0.66 | 0.44 | - |
| 0500 | 7.84 | 6.29 | 0.22 | 0.88 | - | 0.11 | 0.44 | 0.55 | - |
| 0530 | 7.95 | 6.16 | 0.11 | 0.45 | - | 0.11 | 0.56 | 0.56 | - |
| 0600 | 7.33 | 5.66 | 0.11 | 0.78 | - | - | 0.89 | 0.67 | - |
| 0630 | 6.32 | 4.99 | 0.11 | 0.55 | - | - | 1.33 | 0.44 | - |
| 0700 | 5.84 | 5.07 | - | 0.33 | - | - | 1.10 | 0.55 | - |
| 0730 | 5.38 | 4.59 | - | 0.34 | - | - | 0.90 | 0.45 | - |
| 0800 | 4.10 | 4.66 | 0.11 | 0.55 | - | - | 0.78 | 0.44 | - |
| 0830 | 4.26 | 3.92 | - | 0.22 | - | - | 0.34 | 0.45 | - |
| 0900 | 3.10 | 3.54 | - | 0.22 | - | - | 0.44 | 0.22 | - |
| 0930 | 3.46 | 4.13 | - | 0.11 | - | - | - | 0.34 | - |
| 1000 | 3.11 | 3.88 | 0.11 | 0.22 | - | - | 0.33 | 0.33 | - |
| 1030 | 2.66 | 4.55 | 0.22 | 0.22 | - | - | 0.44 | 0.55 | - |
| 1100 | 2.34 | 4.01 | 0.22 | 0.11 | - | - | 0.33 | 0.56 | - |
| 1130 | 2.35 | 3.91 | 0.34 | 0.11 | - | - | 0.45 | 0.34 | - |
| 1200 | 2.21 | 3.87 | 0.33 | 0.11 | - | - | 0.66 | 0.44 | - |
| 1230 | 2.21 | 5.20 | 0.44 | 0.22 | - | - | 0.77 | 0.44 | - |
| 1300 | 2.65 | 4.97 | 0.44 | 0.11 | - | - | 0.77 | 0.44 | 0.11 |
| 1330 | 2.88 | 5.54 | 0.11 | - | - | - | 0.44 | 0.33 | 0.33 |
| 1400 | 3.65 | 5.32 | 0.44 | - | - | - | 0.55 | 0.44 | 0.33 |
| 1430 | 1.88 | 5.86 | 0.66 | 0.11 | - | - | 0.11 | 0.44 | 0.33 |
| 1500 | 1.44 | 5.00 | 0.89 | - | 0.11 | - | 0.67 | 0.33 | 0.22 |
| 1530 | 1.22 | 5.10 | 0.44 | 0.11 | - | - | 0.55 | 0.22 | 0.22 |
| 1600 | 1.43 | 5.84 | 1.10 | 0.11 | - | - | 0.77 | 0.33 | 0.11 |
| 1630 | 1.66 | 5.97 | 1.10 | 0.11 | - | - | 0.66 | 0.33 | - |
| 1700 | 1.44 | 6.86 | 0.77 | - | - | - | 0.66 | 0.44 | 0.11 |

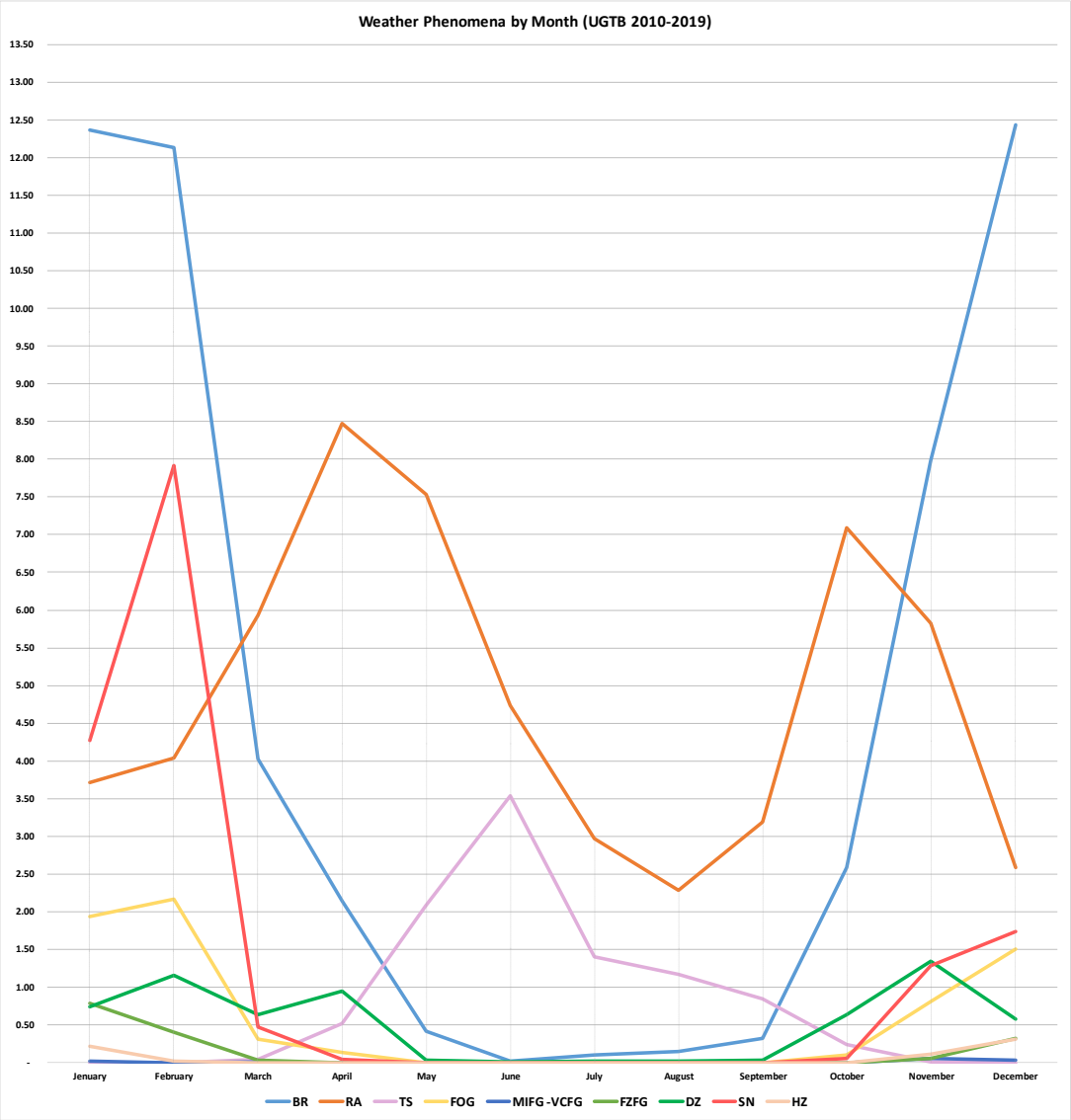
| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 1.54 | 5.07 | 0.88 | 0.33 | - | - | 0.55 | 0.33 | - |
| 1800 | 1.88 | 4.75 | 0.99 | 0.11 | - | - | 0.55 | 0.33 | - |
| 1830 | 1.77 | 5.42 | 0.88 | 0.11 | - | - | 0.88 | 0.22 | - |
| 1900 | 2.32 | 5.85 | 0.55 | 0.22 | - | - | 0.77 | 0.33 | - |
| 1930 | 2.10 | 5.42 | 0.33 | 0.11 | 0.11 | - | 0.66 | 0.33 | - |
| 2000 | 2.65 | 4.86 | 0.44 | 0.11 | 0.11 | - | 0.66 | 0.22 | - |
| 2030 | 3.07 | 5.26 | 0.44 | 0.22 | - | - | 0.55 | 0.33 | - |
| 2100 | 3.54 | 5.41 | 0.22 | 0.11 | 0.11 | - | 0.88 | 0.44 | - |
| 2130 | 3.75 | 5.74 | 0.44 | 0.11 | 0.11 | - | 1.21 | 0.55 | - |
| 2200 | 3.65 | 5.86 | 0.44 | 0.22 | - | - | 1.00 | 0.44 | - |
| 2230 | 3.57 | 6.03 | 0.22 | 0.33 | - | - | 0.89 | 0.67 | - |
| 2300 | 3.63 | 5.94 | 0.33 | 0.33 | - | - | 0.88 | 0.66 | - |
| 2330 | 3.65 | 7.18 | 0.66 | 0.44 | - | - | 0.88 | 0.44 | - |
| Mean | 3.63 | 5.39 | 0.36 | 0.30 | 0.02 | 0.02 | 0.67 | 0.44 | 0.04 |




During the climatological period under review, at Tbilisi International Airport the prevailing weather phenomena in Autumn are: rain – 5.39%, mist – 3.63%, drizzle – 0.67%.

The activity of thunderstorms in Autumn constitutes 0.36%.

| MEAN FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES BY MONTH | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| January | 12.36 | 3.72 | - | 1.94 | 0.02 | 0.79 | 0.74 | 4.27 | 0.22 |
| February | 12.13 | 4.04 | - | 2.16 | - | 0.41 | 1.16 | 7.92 | 0.02 |
| March | 4.02 | 5.93 | 0.04 | 0.31 | 0.01 | 0.03 | 0.63 | 0.48 | - |
| April | 2.14 | 8.47 | 0.52 | 0.13 | - | - | 0.95 | 0.04 | - |
| May | 0.41 | 7.53 | 2.09 | - | - | - | 0.03 | - | - |
| June | 0.02 | 4.73 | 3.54 | - | - | - | 0.01 | - | - |
| July | 0.09 | 2.97 | 1.41 | - | - | - | 0.02 | - | - |
| August | 0.15 | 2.29 | 1.17 | - | - | - | 0.01 | - | - |
| September | 0.32 | 3.19 | 0.85 | - | - | - | 0.03 | - | - |
| October | 2.59 | 7.09 | 0.24 | 0.09 | - | - | 0.64 | 0.05 | - |
| November | 7.99 | 5.83 | 0.01 | 0.81 | 0.06 | 0.05 | 1.34 | 1.28 | 0.11 |
| December | 12.43 | 2.59 | - | 1.50 | 0.03 | 0.32 | 0.57 | 1.73 | 0.31 |



# CORRELATION BETWEEN MONTHLY RAINFALL AND AVERAGE TEMPERATURE

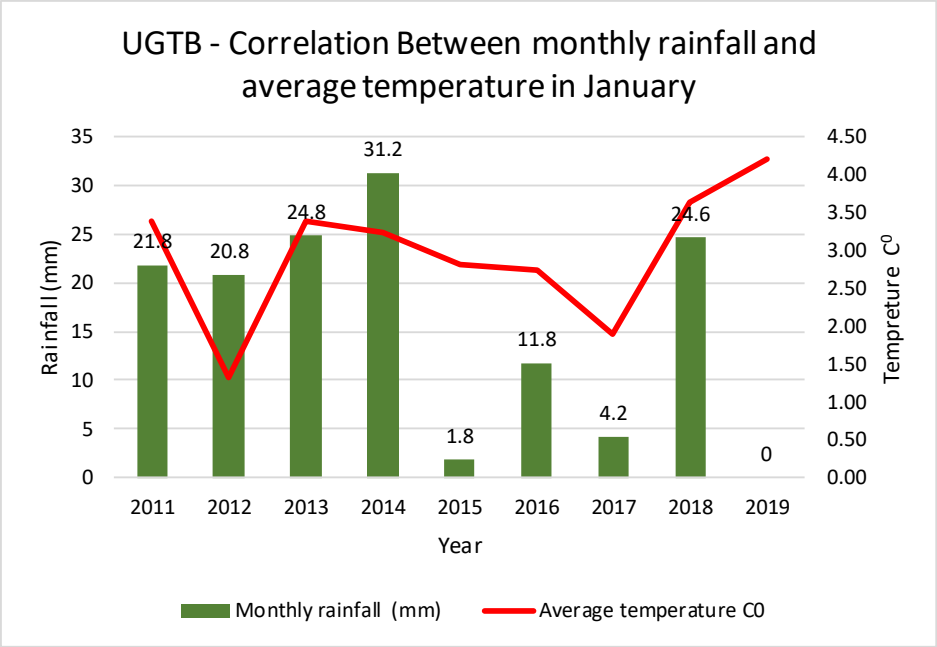
## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: JANUARY PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in January (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature C⁰ |
| 2011 | 21.8 | 3.39 |
| 2012 | 20.8 | 1.32 |
| 2013 | 24.8 | 3.38 |
| 2014 | 31.2 | 3.23 |
| 2015 | 1.8 | 2.82 |
| 2016 | 11.8 | 2.74 |
| 2017 | 4.2 | 1.89 |
| 2018 | 24.6 | 3.62 |
| 2019 | 0 | 4.19 |
| Total rainfall | 141 | |

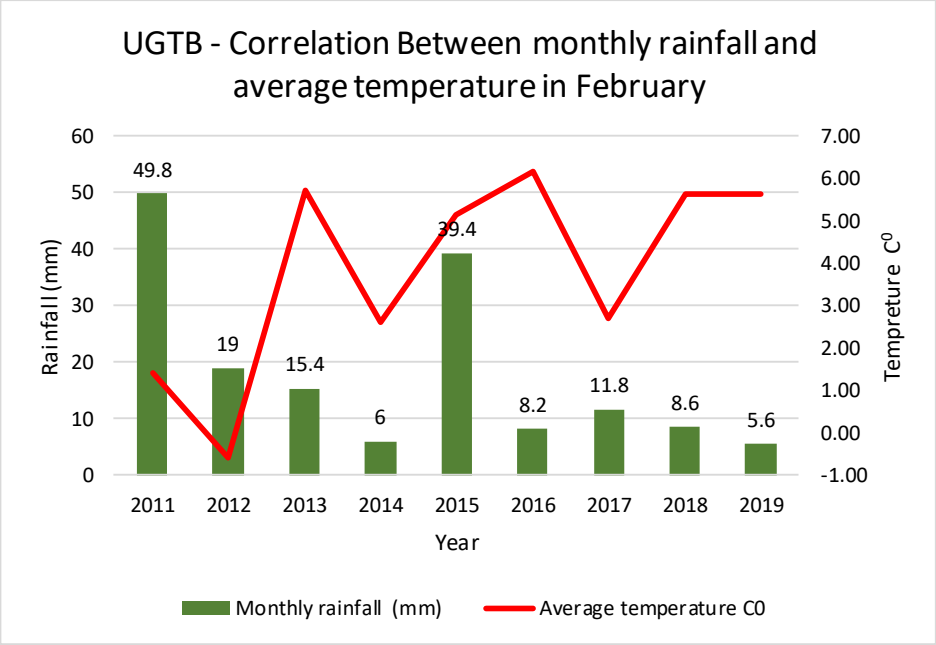


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: FEBRUARY PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in February (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 49.8 | 1.43 |
| 2012 | 19 | -0.59 |
| 2013 | 15.4 | 5.73 |
| 2014 | 6 | 2.63 |
| 2015 | 39.4 | 5.15 |
| 2016 | 8.2 | 6.18 |
| 2017 | 11.8 | 2.71 |
| 2018 | 8.6 | 5.64 |
| 2019 | 5.6 | 5.63 |
| Total rainfall | 158.2 | |

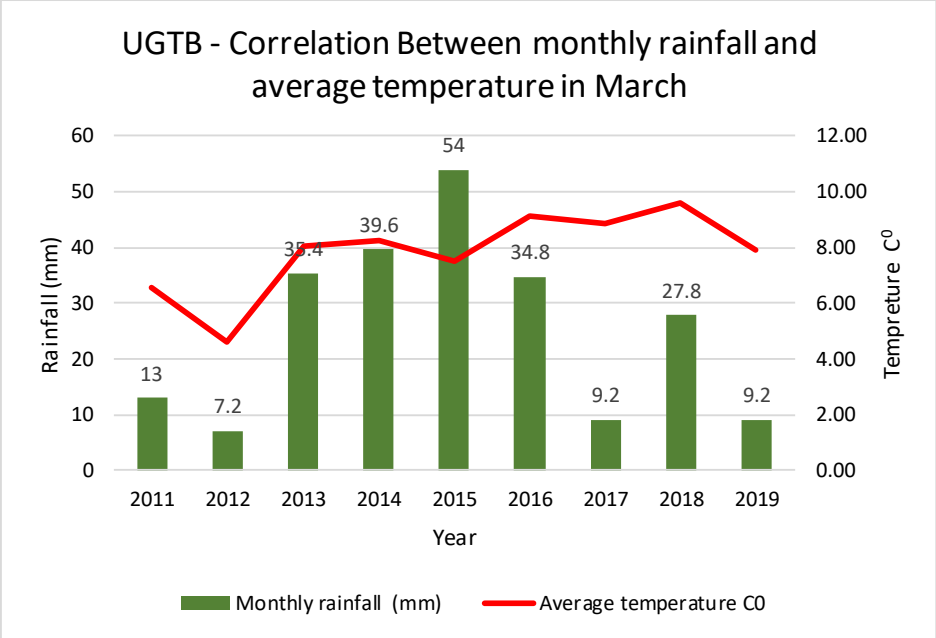


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: MARCH PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in March (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 13 | 6.58 |
| 2012 | 7.2 | 4.60 |
| 2013 | 35.4 | 8.04 |
| 2014 | 39.6 | 8.26 |
| 2015 | 54 | 7.52 |
| 2016 | 34.8 | 9.11 |
| 2017 | 9.2 | 8.86 |
| 2018 | 27.8 | 9.60 |
| 2019 | 9.2 | 7.88 |
| Total rainfall | 221 | |

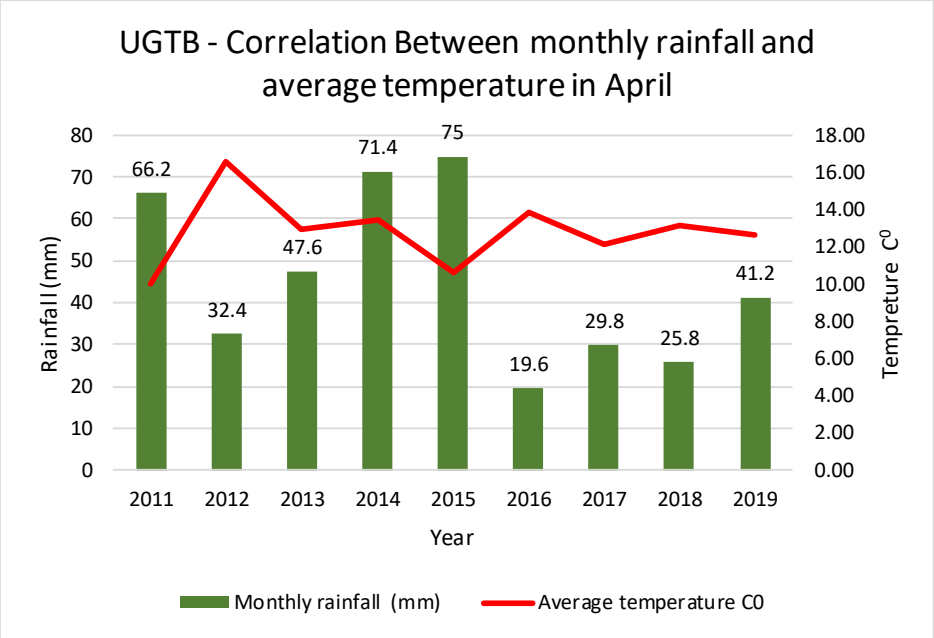


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: APRIL PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in April (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 66.2 | 9.96 |
| 2012 | 32.4 | 16.60 |
| 2013 | 47.6 | 12.96 |
| 2014 | 71.4 | 13.43 |
| 2015 | 75 | 10.67 |
| 2016 | 19.6 | 13.89 |
| 2017 | 29.8 | 12.10 |
| 2018 | 25.8 | 13.14 |
| 2019 | 41.2 | 12.62 |
| Total rainfall | 367.8 | |

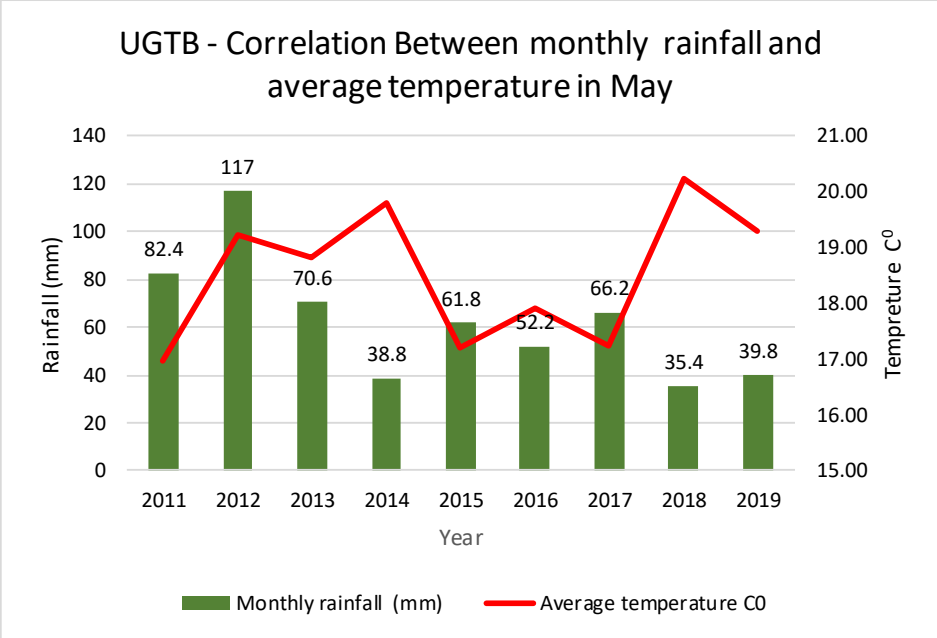


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: MAY PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in May (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 82.4 | 16.98 |
| 2012 | 117 | 19.24 |
| 2013 | 70.6 | 18.81 |
| 2014 | 38.8 | 19.80 |
| 2015 | 61.8 | 17.20 |
| 2016 | 52.2 | 17.91 |
| 2017 | 66.2 | 17.25 |
| 2018 | 35.4 | 20.23 |
| 2019 | 39.8 | 19.30 |
| Total rainfall | 524.4 | |

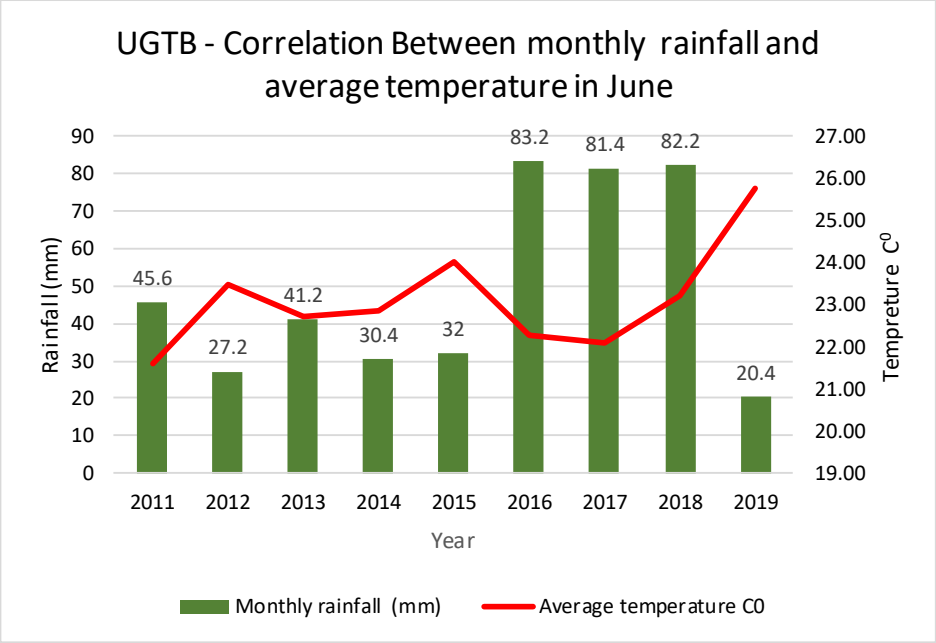


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: JUNE PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in June (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 45.6 | 21.60 |
| 2012 | 27.2 | 23.49 |
| 2013 | 41.2 | 22.74 |
| 2014 | 30.4 | 22.85 |
| 2015 | 32 | 24.01 |
| 2016 | 83.2 | 22.28 |
| 2017 | 81.4 | 22.09 |
| 2018 | 82.2 | 23.22 |
| 2019 | 20.4 | 25.75 |
| Total rainfall | 423.2 | |

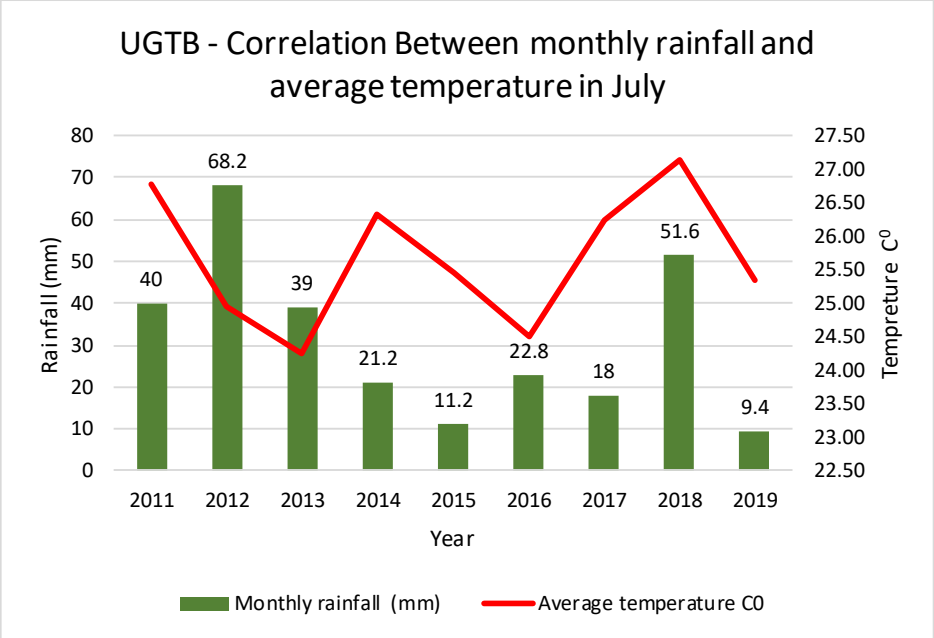


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: JULY PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in July (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 40 | 26.78 |
| 2012 | 68.2 | 24.96 |
| 2013 | 39 | 24.26 |
| 2014 | 21.2 | 26.33 |
| 2015 | 11.2 | 25.45 |
| 2016 | 22.8 | 24.52 |
| 2017 | 18 | 26.24 |
| 2018 | 51.6 | 27.14 |
| 2019 | 9.4 | 25.36 |
| Total rainfall | 272 | |

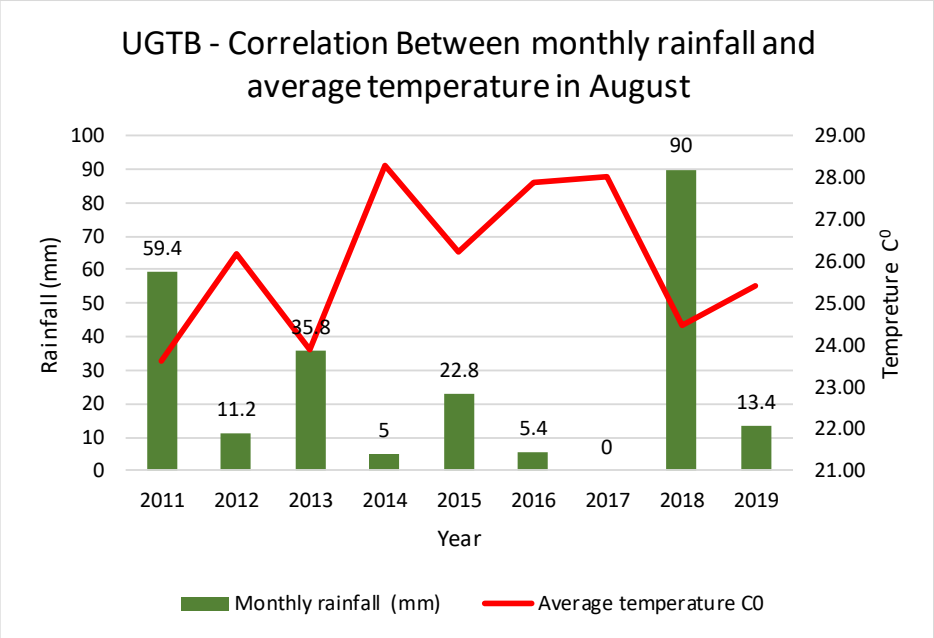


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: AUGUST PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in August (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 59.4 | 23.63 |
| 2012 | 11.2 | 26.17 |
| 2013 | 35.8 | 23.91 |
| 2014 | 5 | 28.29 |
| 2015 | 22.8 | 26.21 |
| 2016 | 5.4 | 27.88 |
| 2017 | 0 | 28.02 |
| 2018 | 90 | 24.49 |
| 2019 | 13.4 | 25.41 |
| Total rainfall | 229.6 | |

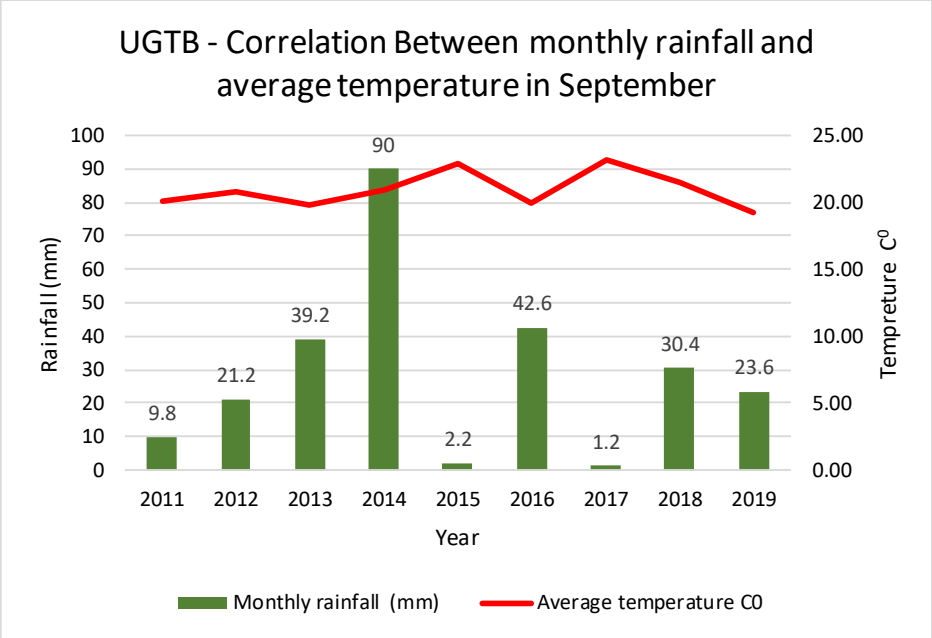


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: SEPTEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in September (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 9.8 | 20.01 |
| 2012 | 21.2 | 20.76 |
| 2013 | 39.2 | 19.85 |
| 2014 | 90.0 | 20.89 |
| 2015 | 2.2 | 22.94 |
| 2016 | 42.6 | 19.99 |
| 2017 | 1.2 | 23.22 |
| 2018 | 30.4 | 21.42 |
| 2019 | 23.6 | 19.26 |
| Total rainfall | 236.6 | |

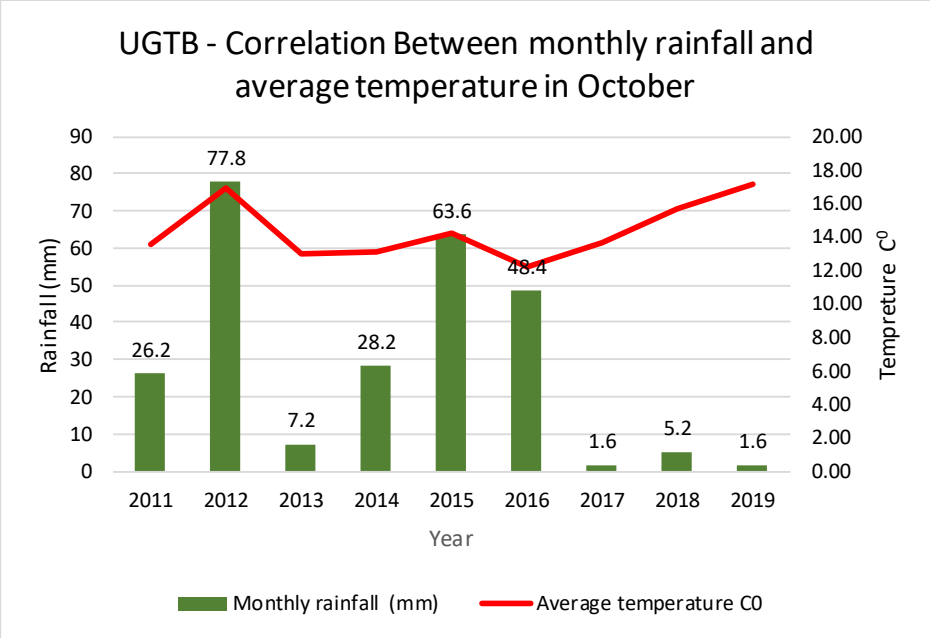


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: OCTOBER PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in October (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 26.2 | 13.51 |
| 2012 | 77.8 | 16.96 |
| 2013 | 7.2 | 12.96 |
| 2014 | 28.2 | 13.05 |
| 2015 | 63.6 | 14.21 |
| 2016 | 48.4 | 12.20 |
| 2017 | 1.6 | 13.64 |
| 2018 | 5.2 | 15.63 |
| 2019 | 1.6 | 17.16 |
| Total rainfall | 258.0 | |

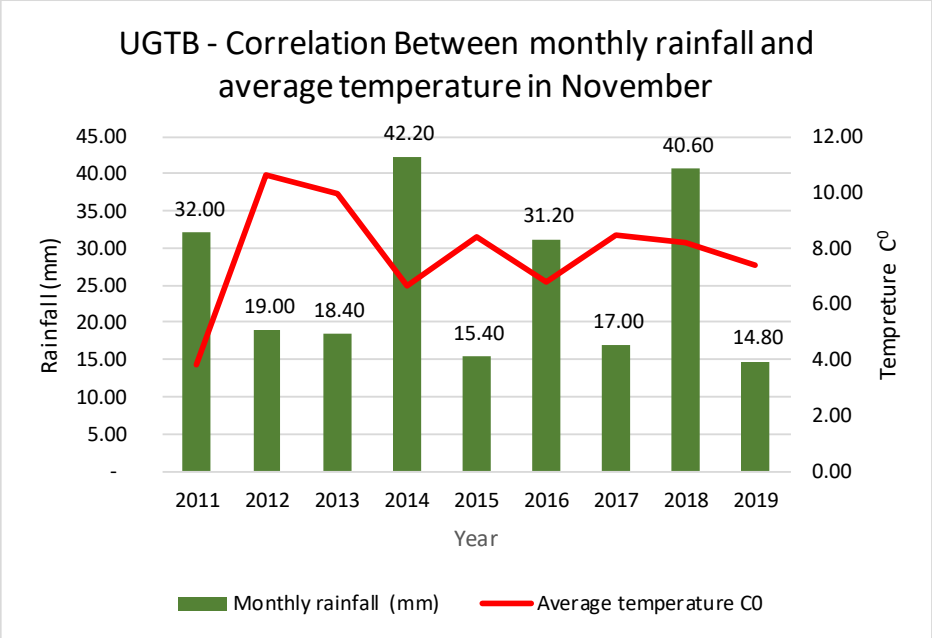


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: NOVEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in November (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 32.00 | 3.82 |
| 2012 | 19.00 | 10.61 |
| 2013 | 18.40 | 9.92 |
| 2014 | 42.20 | 6.67 |
| 2015 | 15.40 | 8.37 |
| 2016 | 31.20 | 6.77 |
| 2017 | 17.00 | 8.47 |
| 2018 | 40.60 | 8.21 |
| 2019 | 14.80 | 7.41 |
| Total rainfall | 215.80 | |

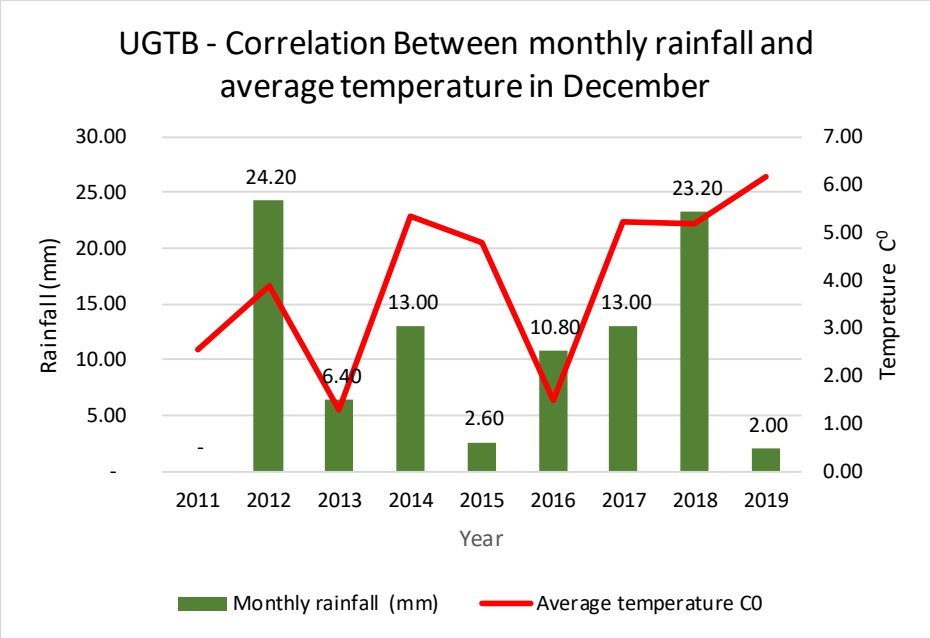


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGTB MONTH: DECEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Correlation Between monthly rainfall and average temperature in December (UGTB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | - | 2.54 |
| 2012 | 24.20 | 3.86 |
| 2013 | 6.40 | 1.29 |
| 2014 | 13.00 | 5.32 |
| 2015 | 2.60 | 4.79 |
| 2016 | 10.80 | 1.48 |
| 2017 | 13.00 | 5.21 |
| 2018 | 23.20 | 5.16 |
| 2019 | 2.00 | 6.16 |
| Total rainfall | 93.20 | |



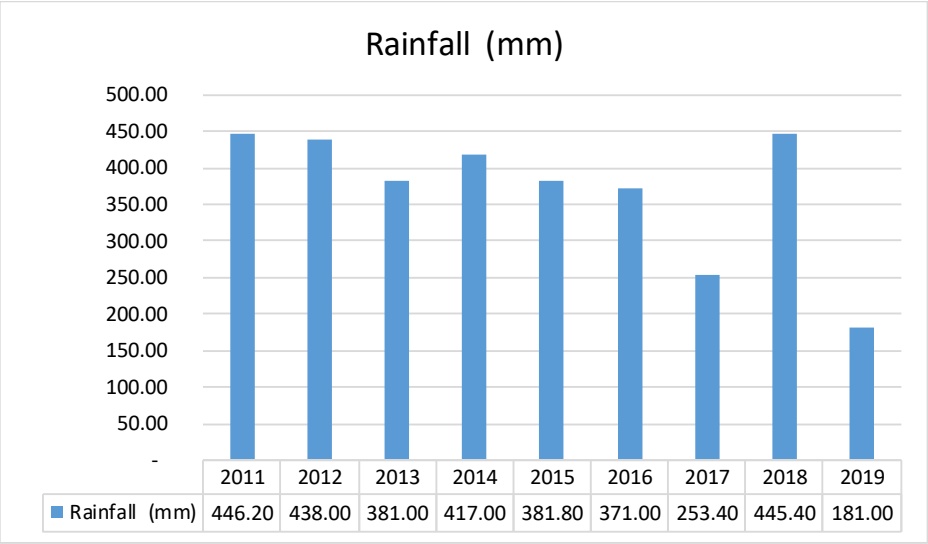
## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL J**
**TABULAR FORM**

AERODROME: UGTB ANNUAL PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| Annual rainfall (UGTB) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Year | | | | | | | | |
| UGTB | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| Rainfall (mm) | 446.20 | 438.00 | 381.00 | 417.00 | 381.80 | 371.00 | 253.40 | 445.40 | 181.00 |



## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL K**
**TABULAR FORM**

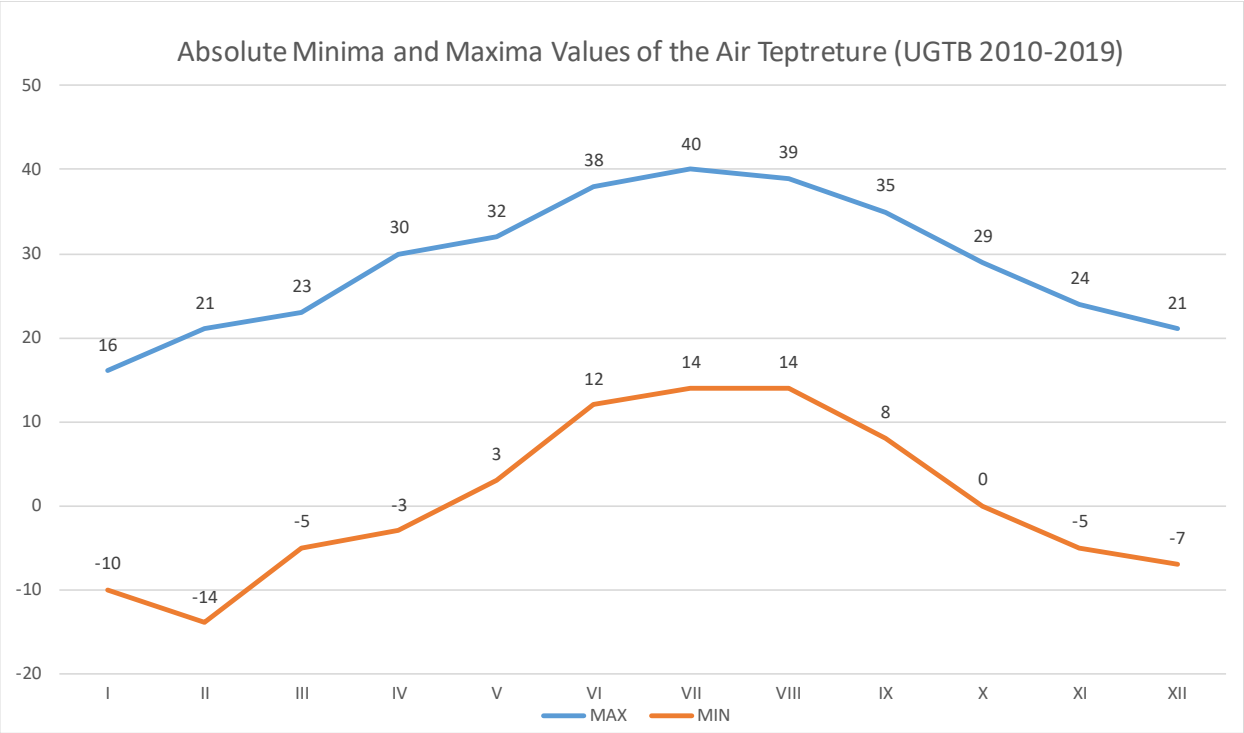
AERODROME: UGTB MONTHLY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 175296 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

Absolute Minima and Maxima Values of the Air Temperature (UGTB 2010-2019)

| TEMP ($C^0$) | MONTH | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | I | II | III | IV | V | VI | VII | VIII | IX | X | XI | XII |
| MAX | 16 | 21 | 23 | 30 | 32 | 38 | 40 | 39 | 35 | 29 | 24 | 21 |
| MIN | -10 | -14 | -5 | -3 | 3 | 12 | 14 | 14 | 8 | -0 | -5 | -7 |



**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL L**
**TABULAR FORM**

AERODROME: UGTB MONTHLY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 175296 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

MAXIMUM VALUE OF THE WIND GUST (UGTB 2010-2019)

| WIND GUST SPEED | MONTH | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | I | II | III | IV | V | VI | VII | VIII | IX | X | XI | XII |
| KT (KNOT) | 63 | 52 | 63 | 64 | 52 | 50 | 52 | 49 | 57 | 59 | 57 | 55 |
| M / S | 32 | 27 | 32 | 33 | 27 | 26 | 27 | 25 | 29 | 30 | 29 | 28 |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGTB MONTH: JANUARY PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF JANUARY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | | | |
| 0030 | | | |
| 0100 | | | |
| 0130 | | | |
| 0200 | | | |
| 0230 | | | |
| 0300 | | | |
| 0330 | | | |
| 0400 | | | |
| 0430 | | | |
| 0500 | | | |
| 0530 | | | |
| 0600 | | | |
| 0630 | | | |
| 0700 | | | |
| 0730 | | | |
| 0800 | | | |
| 0830 | WORSE | | |
| 0900 | WORSE | GOOD | |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1130 | WORSE | GOOD | BETTER |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF Janurary) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | WORSE | GOOD | BETTER |
| 1230 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | |
| 1330 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1430 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1530 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | |
| 1630 | WORSE | GOOD | |
| 1700 | WORSE | GOOD | |
| 1730 | WORSE | | |
| 1800 | WORSE | GOOD | |
| 1830 | WORSE | | |
| 1900 | WORSE | GOOD | |
| 1930 | WORSE | GOOD | |
| 2000 | WORSE | | |
| 2030 | | | |
| 2100 | | | |
| 2130 | | | |
| 2200 | | | |
| 2230 | | | |
| 2300 | WORSE | | |
| 2330 | | | |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGTB MONTH: FEBRUARY PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF FEBRUARY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | | | |
| 0030 | | | |
| 0100 | | | |
| 0130 | | | |
| 0200 | | | |
| 0230 | | | |
| 0300 | | | |
| 0330 | | | |
| 0400 | | | |
| 0430 | | | |
| 0500 | | | |
| 0530 | | | |
| 0600 | | | |
| 0630 | | | |
| 0700 | | | |
| 0730 | WORSE | | |
| 0800 | WORSE | | |
| 0830 | WORSE | | |
| 0900 | WORSE | GOOD | BETTER |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | |
| 1130 | WORSE | GOOD | |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF FEBRUARY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | WORSE | GOOD | BETTER |
| 1230 | WORSE | GOOD | |
| 1300 | WORSE | GOOD | |
| 1330 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | |
| 1430 | WORSE | | |
| 1500 | WORSE | GOOD | |
| 1530 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | |
| 1630 | WORSE | GOOD | BETTER |
| 1700 | | | |
| 1730 | | | |
| 1800 | | | |
| 1830 | | | |
| 1900 | | | |
| 1930 | | | |
| 2000 | | | |
| 2030 | | | |
| 2100 | | | |
| 2130 | | | |
| 2200 | | | |
| 2230 | | | |
| 2300 | | | |
| 2330 | | | |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGTB MONTH: MARCH PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF MARCH) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0030 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0130 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0230 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | |
| 0330 | WORSE | GOOD | |
| 0400 | WORSE | GOOD | |
| 0430 | | | |
| 0500 | WORSE | | |
| 0530 | WORSE | | |
| 0600 | WORSE | | |
| 0630 | WORSE | | |
| 0700 | WORSE | GOOD | BETTER |
| 0730 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0830 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1130 | WORSE | GOOD | BETTER |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF MARCH) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | WORSE | GOOD | BETTER |
| 1230 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1330 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1430 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1530 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1630 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1730 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1830 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 1930 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2030 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2130 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2230 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |
| 2330 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGTB MONTH: APRIL PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF APRIL) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0030 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0130 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0230 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0330 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0430 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0530 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0630 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0730 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0830 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1130 | WORSE | GOOD | BETTER |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF APRIL) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | WORSE | GOOD | BETTER |
| 1230 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1330 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1430 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1530 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1630 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1730 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1830 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 1930 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2030 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2130 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2230 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |
| 2330 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGTB MONTH: MAY PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF MAY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0030 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0130 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0230 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0330 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0430 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0530 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0630 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0730 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0830 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1130 | WORSE | GOOD | BETTER |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF MAY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | WORSE | GOOD | BETTER |
| 1230 | | | |
| 1300 | | | |
| 1330 | | | |
| 1400 | | | |
| 1430 | | | |
| 1500 | | | |
| 1530 | | | |
| 1600 | | | |
| 1630 | | | |
| 1700 | | | |
| 1730 | | | |
| 1800 | | | |
| 1830 | | | |
| 1900 | | | |
| 1930 | WORSE | GOOD | BETTER |
| 2000 | | | |
| 2030 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2130 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2230 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |
| 2330 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGTB MONTH: JUNE PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF JUNE) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0030 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0130 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0230 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0330 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0430 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0530 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0630 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0730 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0830 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1130 | WORSE | GOOD | BETTER |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF JUNE) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | | | |
| 1230 | | | |
| 1300 | | | |
| 1330 | | | |
| 1400 | | | |
| 1430 | | | |
| 1500 | | | |
| 1530 | | | |
| 1600 | | | |
| 1630 | | | |
| 1700 | | | |
| 1730 | | | |
| 1800 | | | |
| 1830 | | | |
| 1900 | | | |
| 1930 | | | |
| 2000 | | | |
| 2030 | | | |
| 2100 | | | |
| 2130 | | | |
| 2200 | | | |
| 2230 | | | |
| 2300 | WORSE | GOOD | BETTER |
| 2330 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGTB MONTH: JULY PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF JULY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0030 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0130 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0230 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0330 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0430 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0530 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0630 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0730 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0830 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1130 | WORSE | GOOD | BETTER |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF JULY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | WORSE | GOOD | BETTER |
| 1230 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1330 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1430 | | | |
| 1500 | | | |
| 1530 | WORSE | GOOD | BETTER |
| 1600 | | | |
| 1630 | | | |
| 1700 | | | |
| 1730 | | | |
| 1800 | | | |
| 1830 | | | |
| 1900 | WORSE | GOOD | BETTER |
| 1930 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2030 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2130 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2230 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |
| 2330 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGTB MONTH: AUGUST PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF AUGUST) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0030 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0130 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0230 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0330 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0430 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0530 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0630 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0730 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0830 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1130 | WORSE | GOOD | BETTER |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF AUGUST) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | WORSE | GOOD | BETTER |
| 1230 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1330 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1430 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1530 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1630 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1730 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1830 | WORSE | GOOD | BETTER |
| 1900 | | | |
| 1930 | | | |
| 2000 | | | |
| 2030 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2130 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2230 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |
| 2330 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGTB MONTH: SEPTEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF SEPTEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0030 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0130 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0230 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0330 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0430 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0530 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0630 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0730 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0830 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1130 | WORSE | GOOD | BETTER |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF SEPTEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | WORSE | GOOD | BETTER |
| 1230 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1330 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1430 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1530 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1630 | | | |
| 1700 | WORSE | GOOD | BETTER |
| 1730 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1830 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 1930 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2030 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2130 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2230 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |
| 2330 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGTB MONTH: OCTOBER PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF OCTOBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0030 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0130 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0230 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0330 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0430 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0530 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0630 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0730 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0830 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1130 | WORSE | GOOD | BETTER |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF OCTOBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | WORSE | GOOD | BETTER |
| 1230 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1330 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1430 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1530 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1630 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1730 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1830 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 1930 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2030 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2130 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2230 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |
| 2330 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGTB MONTH: NOVEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF NOVEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | | |
| 0030 | WORSE | GOOD | |
| 0100 | WORSE | GOOD | |
| 0130 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0230 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0330 | WORSE | GOOD | |
| 0400 | WORSE | | |
| 0430 | WORSE | | |
| 0500 | WORSE | | |
| 0530 | WORSE | | |
| 0600 | WORSE | | |
| 0630 | | | |
| 0700 | | | |
| 0730 | WORSE | | |
| 0800 | WORSE | GOOD | BETTER |
| 0830 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1130 | WORSE | GOOD | BETTER |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF NOVEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | WORSE | GOOD | BETTER |
| 1230 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1330 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1430 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1530 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1630 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1730 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1830 | WORSE | GOOD | |
| 1900 | WORSE | GOOD | BETTER |
| 1930 | WORSE | GOOD | |
| 2000 | WORSE | GOOD | |
| 2030 | | | |
| 2100 | | | |
| 2130 | | | |
| 2200 | WORSE | | |
| 2230 | WORSE | | |
| 2300 | WORSE | | |
| 2330 | WORSE | | |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

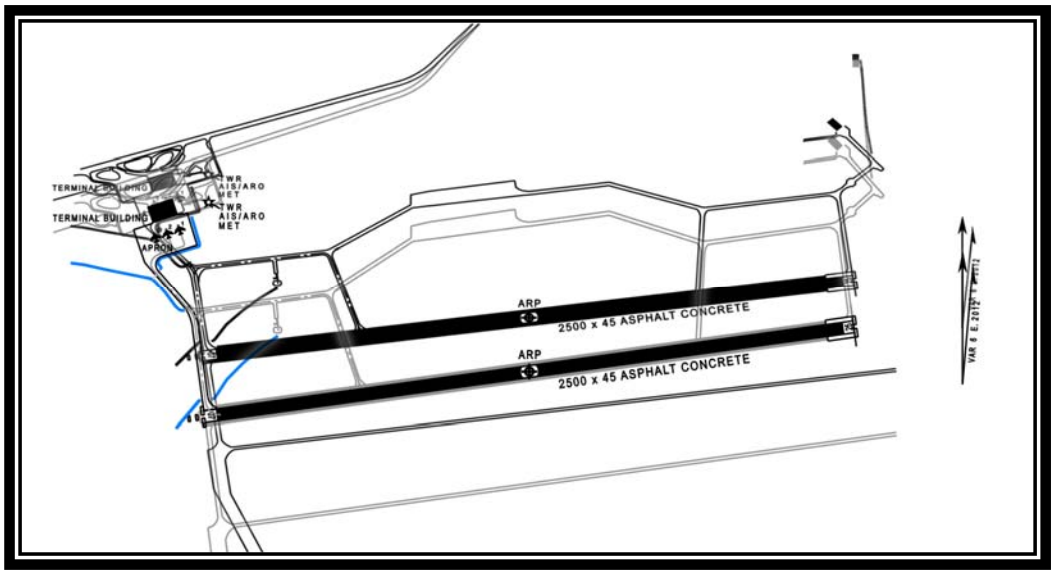
AERODROME: UGTB MONTH: DECEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 414008.96N LONGITUDE: 0445717.25E ELEVATION ABOVE MSL: 1624 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF DECEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | | | |
| 0030 | | | |
| 0100 | | | |
| 0130 | | | |
| 0200 | | | |
| 0230 | | | |
| 0300 | WORSE | | |
| 0330 | | | |
| 0400 | WORSE | | |
| 0430 | | | |
| 0500 | | | |
| 0530 | | | |
| 0600 | | | |
| 0630 | | | |
| 0700 | WORSE | | |
| 0730 | WORSE | GOOD | |
| 0800 | WORSE | GOOD | |
| 0830 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 0930 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1030 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1130 | WORSE | GOOD | BETTER |

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGTB AIRPORT (MONTH OF DECEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 1200 | WORSE | GOOD | BETTER |
| 1230 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1330 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1430 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1530 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1630 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1730 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1830 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 1930 | WORSE | GOOD | |
| 2000 | WORSE | GOOD | |
| 2030 | WORSE | GOOD | |
| 2100 | WORSE | | |
| 2130 | WORSE | | |
| 2200 | WORSE | | |
| 2230 | | | |
| 2300 | | | |
| 2330 | WORSE | | |

# KUTAISI INTERNATIONAL AIRPORT (UGKO)




The elevation of David Agmashenebeli Kutaisi International Airport is 48m (160ft) above sea level. There is one runway with two touchdown zones (TDZ07/25). It is located on the right bank of the river Rioni, approximately 20 km from Kutaisi. The airport territory is surrounded by high mountain ranges, whose height and distance from the observation site is given in Table No. 1.

Table No. 1. Height of the mountains located near Kutaisi International Airport and their distance from the observation site.

| Mountain | Heights Above Sea Level | | Distance from the observation site |
|---|---|---|---|
| | m | ft | m |
| Askhi | 2520 | 8267 | 25 388 |
| Khvamli | 2001 | 6564 | 30 109 |
| Gomi | 2121 | 6958 | 19 862 |

This territory is located in the moderately humid subtropical zone. This fact, along with its geographical location, determines the climatic conditions of the area. They are characterized by moderately warm winters and relatively dry and hot summers. West and east winds prevail in Kutaisi. This is mostly due to its location on the Kolkheti Lowland, which permits cold air masses to move easily into the area both from the west (i.e. from the Black Sea) and from the east (i.e. from the Caspian Sea). The river Rioni gorge in its Kutaisi section is characterized by foehn-type winds, which significantly determines the temperature regime of the area. Due to this fact, air temperature at Kutaisi Airport is relatively higher than at other airports of Georgia (See Model E). Here, the frequency of east winds and their intensity are quite high. Such weather conditions are experienced when easterly circular processes are taking place in South Caucasus.

In the vicinity of Kutaisi Airport weather conditions most difficult for flight operations occur during the process of “westerly invasion”. If the process is strong, it generates a difficult meteorological situation with strong west winds (See Model D), low height of the base of the lowest cloud layer and reduced visibility; thunderstorms develop, accompanied by shower precipitation. Foggy days are frequent during the winter. Such adverse weather conditions do not last for long. After strong invasions have finished, anti-cyclone type weather is formed.

**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

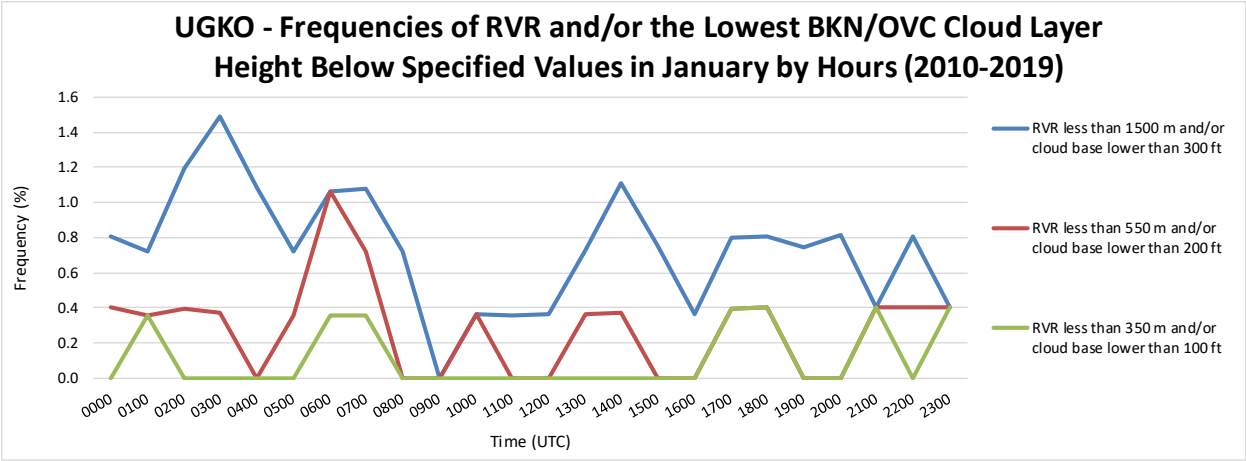
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

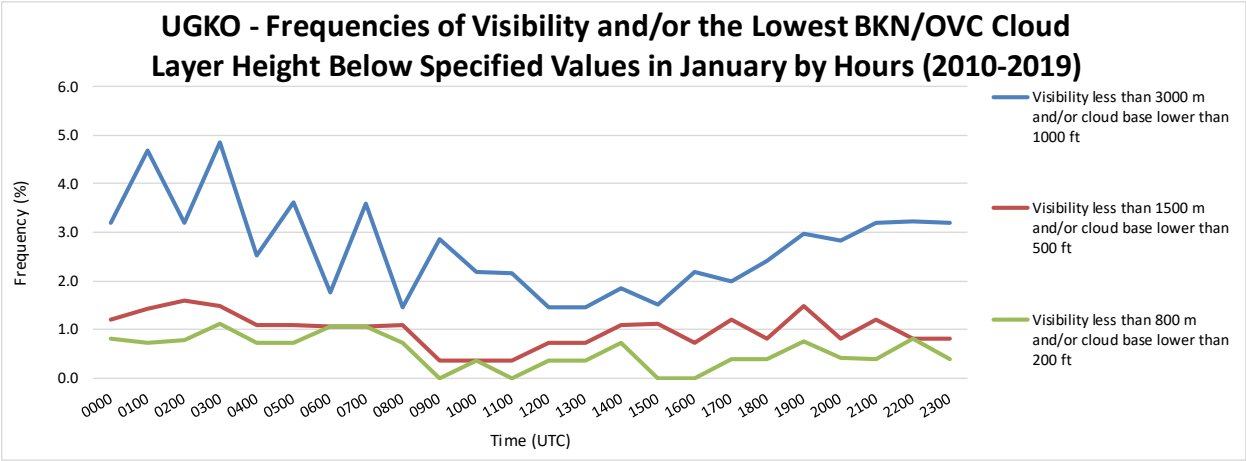
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | 0.40 | 0.80 | 0.80 | 1.20 | 3.21 | 21.29 |
| 0100 | - | - | 0.36 | 0.36 | 0.72 | 0.72 | 1.44 | 4.68 | 20.86 |
| 0200 | - | - | - | 0.40 | 1.20 | 0.80 | 1.59 | 3.19 | 19.12 |
| 0300 | - | - | - | 0.37 | 1.49 | 1.12 | 1.49 | 4.85 | 17.16 |
| 0400 | - | - | - | - | 1.08 | 0.72 | 1.08 | 2.53 | 17.33 |
| 0500 | - | - | - | 0.36 | 0.72 | 0.72 | 1.08 | 3.61 | 15.16 |
| 0600 | - | - | 0.35 | 1.06 | 1.06 | 1.06 | 1.06 | 1.77 | 17.67 |
| 0700 | - | - | 0.36 | 0.72 | 1.08 | 1.08 | 1.08 | 3.60 | 15.11 |
| 0800 | - | - | - | - | 0.72 | 0.72 | 1.09 | 1.45 | 13.04 |
| 0900 | - | - | - | - | - | - | 0.36 | 2.87 | 13.98 |
| 1000 | - | - | - | 0.36 | 0.36 | 0.36 | 0.36 | 2.18 | 13.82 |
| 1100 | - | - | - | - | 0.36 | - | 0.36 | 2.16 | 12.59 |
| 1200 | - | - | - | - | 0.37 | 0.37 | 0.73 | 1.47 | 10.62 |
| 1300 | - | - | - | 0.36 | 0.73 | 0.36 | 0.73 | 1.45 | 13.09 |
| 1400 | - | - | - | 0.37 | 1.11 | 0.74 | 1.11 | 1.85 | 12.92 |
| 1500 | - | - | - | - | 0.75 | - | 1.13 | 1.50 | 13.53 |
| 1600 | - | - | - | - | 0.36 | - | 0.73 | 2.18 | 14.18 |
| 1700 | - | - | 0.40 | 0.40 | 0.80 | 0.40 | 1.20 | 1.99 | 17.93 |
| 1800 | - | - | 0.40 | 0.40 | 0.81 | 0.40 | 0.81 | 2.42 | 18.55 |
| 1900 | - | - | - | - | 0.74 | 0.74 | 1.49 | 2.97 | 17.84 |
| 2000 | - | - | - | - | 0.81 | 0.41 | 0.81 | 2.85 | 18.70 |
| 2100 | - | - | 0.40 | 0.40 | 0.40 | 0.40 | 1.20 | 3.21 | 20.48 |
| 2200 | - | - | - | 0.40 | 0.81 | 0.81 | 0.81 | 3.24 | 18.22 |
| 2300 | - | - | 0.40 | 0.40 | 0.40 | 0.40 | 0.80 | 3.20 | 19.20 |
| TOTAL | - | - | 0.11 | 0.28 | 0.74 | 0.55 | 0.99 | 2.68 | 16.26 |

In January, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.11% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.99% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 6768 OBSERVATION INTERVAL: 1 HOUR

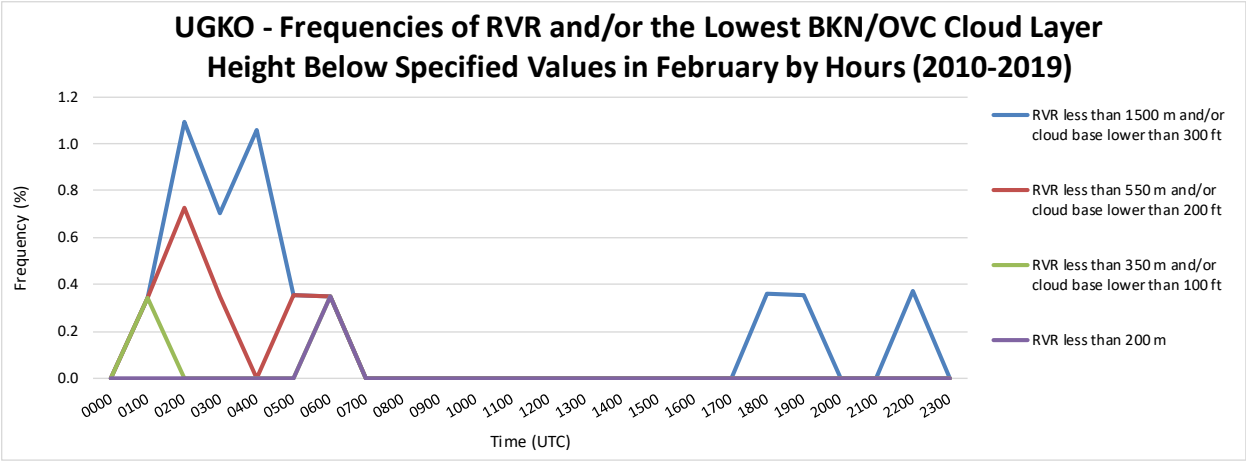
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

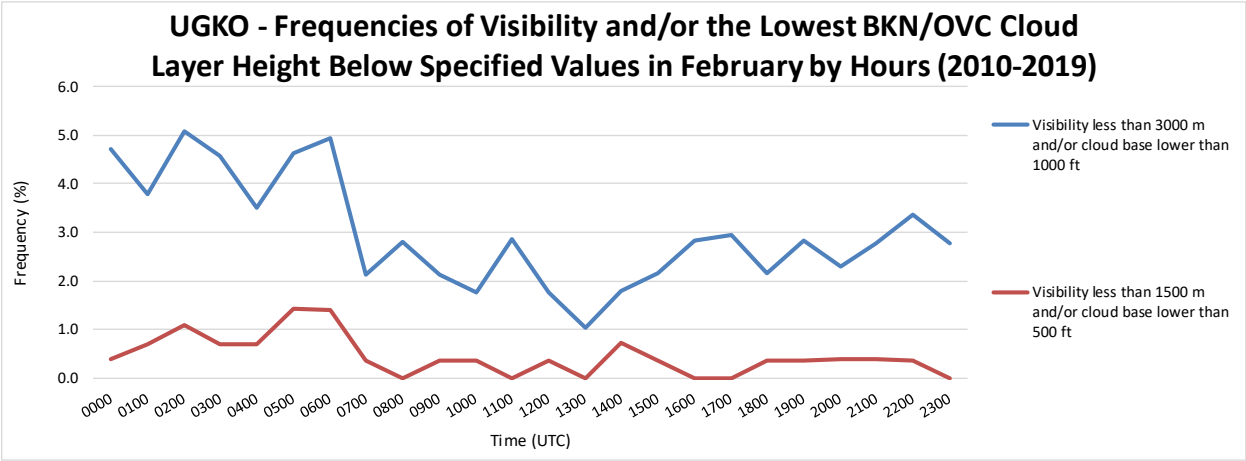
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | 0.39 | 0.39 | 4.72 | 18.50 |
| 0100 | - | - | 0.34 | 0.34 | 0.34 | 0.34 | 0.69 | 3.78 | 21.31 |
| 0200 | - | - | - | 0.73 | 1.09 | 1.09 | 1.09 | 5.09 | 20.73 |
| 0300 | - | - | - | 0.35 | 0.70 | 0.70 | 0.70 | 4.58 | 19.37 |
| 0400 | - | - | - | - | 1.06 | 0.35 | 0.70 | 3.52 | 21.13 |
| 0500 | - | - | - | 0.36 | 0.36 | 0.71 | 1.42 | 4.63 | 19.57 |
| 0600 | - | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 1.41 | 4.93 | 19.37 |
| 0700 | - | - | - | - | - | - | 0.36 | 2.14 | 15.66 |
| 0800 | - | - | - | - | - | - | - | 2.81 | 14.04 |
| 0900 | - | - | - | - | - | - | 0.35 | 2.13 | 11.35 |
| 1000 | - | - | - | - | - | - | 0.35 | 1.77 | 11.35 |
| 1100 | - | - | - | - | - | - | - | 2.86 | 10.00 |
| 1200 | - | - | - | - | - | - | 0.35 | 1.77 | 10.25 |
| 1300 | - | - | - | - | - | - | - | 1.05 | 10.10 |
| 1400 | - | - | - | - | - | - | 0.71 | 1.79 | 9.29 |
| 1500 | - | - | - | - | - | - | 0.36 | 2.17 | 13.04 |
| 1600 | - | - | - | - | - | - | - | 2.83 | 13.43 |
| 1700 | - | - | - | - | - | - | - | 2.95 | 14.39 |
| 1800 | - | - | - | - | 0.36 | 0.36 | 0.36 | 2.17 | 14.13 |
| 1900 | - | - | - | - | 0.35 | 0.35 | 0.35 | 2.84 | 16.31 |
| 2000 | - | - | - | - | - | - | 0.38 | 2.31 | 18.46 |
| 2100 | - | - | - | - | - | - | 0.40 | 2.78 | 21.03 |
| 2200 | - | - | - | - | 0.37 | - | 0.37 | 3.36 | 21.27 |
| 2300 | - | - | - | - | - | - | - | 2.77 | 20.16 |
| TOTAL | - | 0.02 | 0.03 | 0.09 | 0.21 | 0.20 | 0.45 | 2.98 | 15.95 |

In February, based on Ten-year observation the RVR (Runway Visual Range) minimum values of below 200 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.02% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.45% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

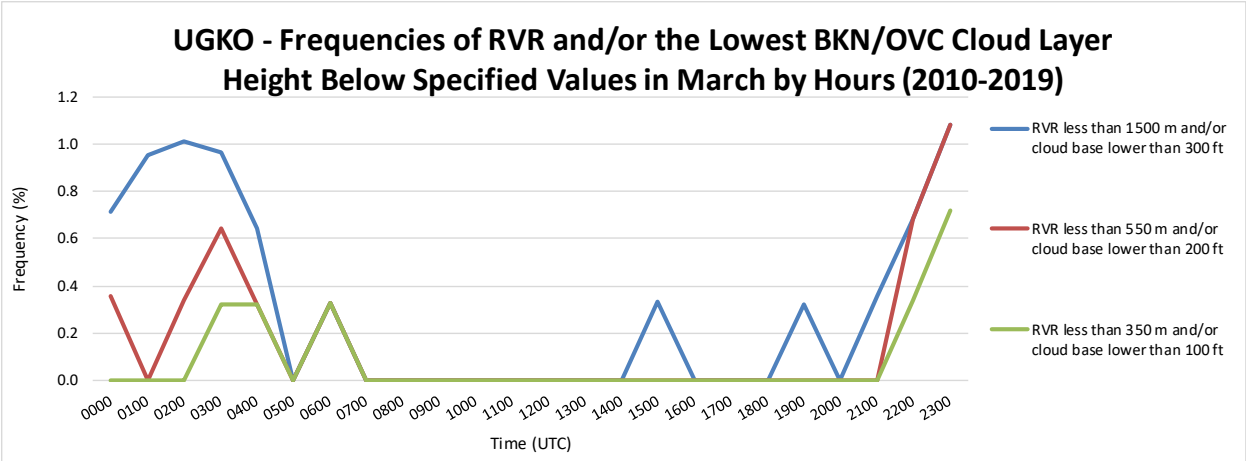
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

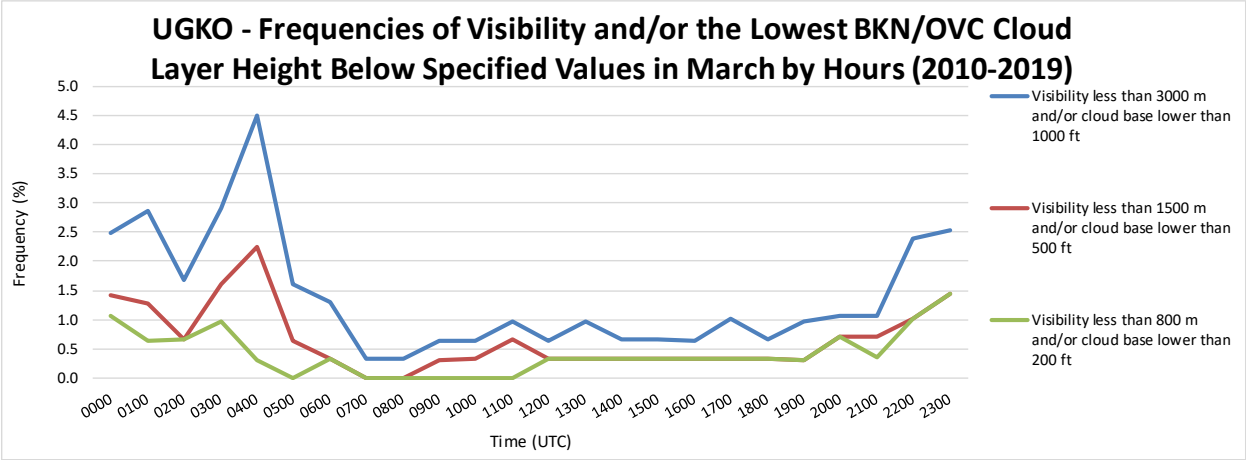
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | 0.36 | 0.71 | 1.07 | 1.42 | 2.49 | 17.44 |
| 0100 | - | - | - | - | 0.96 | 0.64 | 1.27 | 2.87 | 21.02 |
| 0200 | - | - | - | 0.34 | 1.01 | 0.67 | 0.67 | 1.68 | 19.53 |
| 0300 | - | - | 0.32 | 0.65 | 0.97 | 0.97 | 1.61 | 2.90 | 21.29 |
| 0400 | - | - | 0.32 | 0.32 | 0.64 | 0.32 | 2.24 | 4.49 | 20.51 |
| 0500 | - | - | - | - | - | - | 0.65 | 1.61 | 20.32 |
| 0600 | - | - | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 1.30 | 15.91 |
| 0700 | - | - | - | - | - | - | - | 0.32 | 12.62 |
| 0800 | - | - | - | - | - | - | - | 0.33 | 11.73 |
| 0900 | - | - | - | - | - | - | 0.32 | 0.64 | 10.61 |
| 1000 | - | - | - | - | - | - | 0.32 | 0.65 | 11.04 |
| 1100 | - | - | - | - | - | - | 0.65 | 0.98 | 10.78 |
| 1200 | - | - | - | - | - | 0.33 | 0.33 | 0.65 | 10.42 |
| 1300 | - | - | - | - | - | 0.33 | 0.33 | 0.98 | 8.85 |
| 1400 | - | - | - | - | - | 0.33 | 0.33 | 0.67 | 8.00 |
| 1500 | - | - | - | - | 0.33 | 0.33 | 0.33 | 0.66 | 7.64 |
| 1600 | - | - | - | - | - | 0.32 | 0.32 | 0.65 | 8.44 |
| 1700 | - | - | - | - | - | 0.34 | 0.34 | 1.02 | 13.56 |
| 1800 | - | - | - | - | - | 0.34 | 0.34 | 0.67 | 11.78 |
| 1900 | - | - | - | - | 0.32 | 0.32 | 0.32 | 0.96 | 11.90 |
| 2000 | - | - | - | - | - | 0.71 | 0.71 | 1.06 | 11.31 |
| 2100 | - | - | - | - | 0.36 | 0.36 | 0.71 | 1.07 | 11.74 |
| 2200 | - | - | 0.34 | 0.68 | 0.68 | 1.02 | 1.02 | 2.39 | 13.65 |
| 2300 | - | - | 0.72 | 1.08 | 1.08 | 1.44 | 1.44 | 2.53 | 13.72 |
| TOTAL | - | - | 0.08 | 0.15 | 0.30 | 0.41 | 0.66 | 1.40 | 13.51 |

In March, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.08% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.66% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

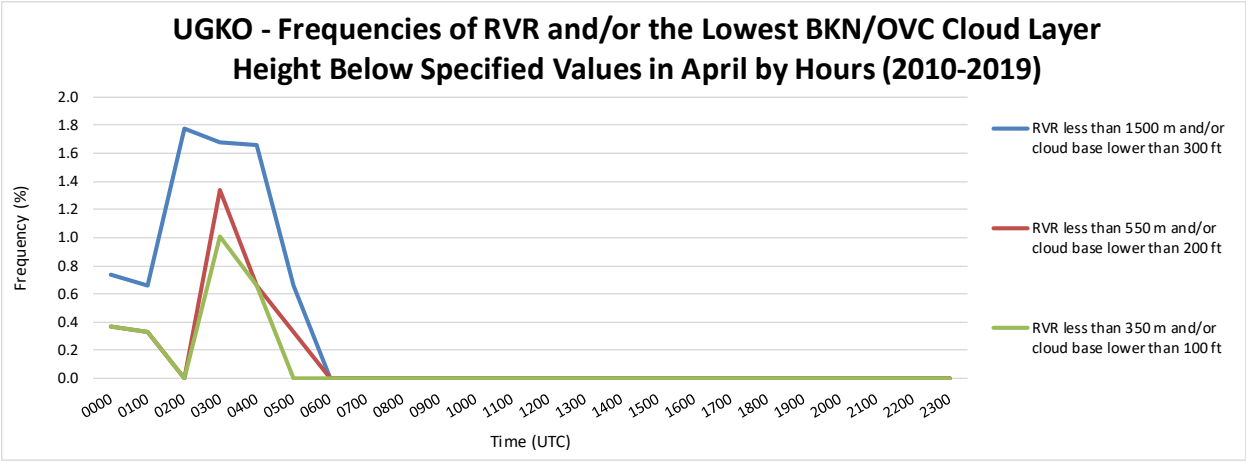
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

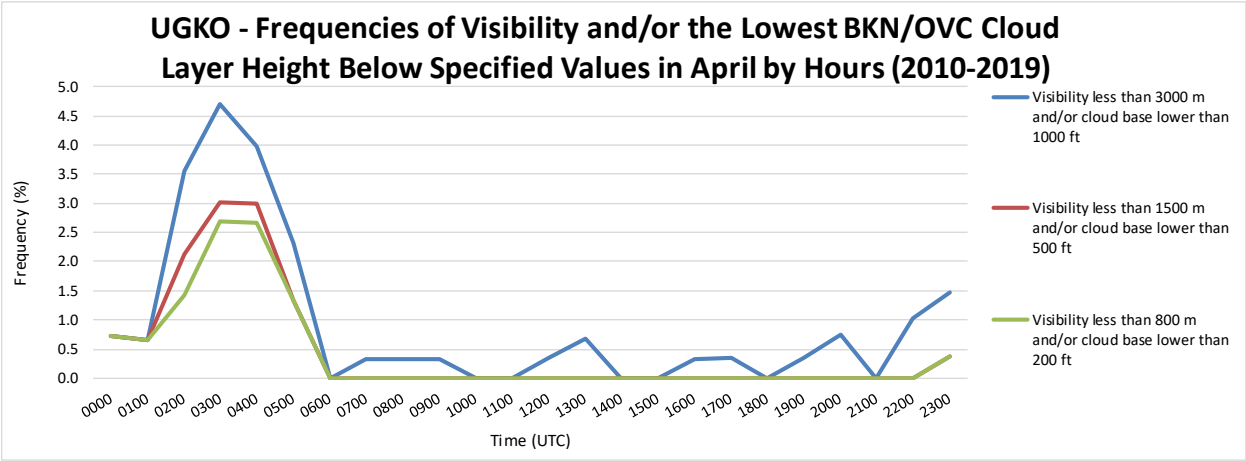
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | 0.37 | 0.37 | 0.74 | 0.74 | 0.74 | 0.74 | 13.97 |
| 0100 | - | - | 0.33 | 0.33 | 0.66 | 0.66 | 0.66 | 0.66 | 17.94 |
| 0200 | - | - | - | - | 1.77 | 1.42 | 2.13 | 3.55 | 20.92 |
| 0300 | - | - | 1.01 | 1.34 | 1.68 | 2.68 | 3.02 | 4.70 | 21.14 |
| 0400 | - | - | 0.66 | 0.66 | 1.66 | 2.66 | 2.99 | 3.99 | 17.61 |
| 0500 | - | - | - | 0.33 | 0.66 | 1.33 | 1.33 | 2.33 | 12.96 |
| 0600 | - | - | - | - | - | - | - | - | 9.73 |
| 0700 | - | - | - | - | - | - | - | 0.34 | 8.75 |
| 0800 | - | - | - | - | - | - | - | 0.34 | 6.06 |
| 0900 | - | - | - | - | - | - | - | 0.34 | 6.38 |
| 1000 | - | - | - | - | - | - | - | - | 4.32 |
| 1100 | - | - | - | - | - | - | - | - | 5.08 |
| 1200 | - | - | - | - | - | - | - | 0.34 | 4.78 |
| 1300 | - | - | - | - | - | - | - | 0.67 | 5.67 |
| 1400 | - | - | - | - | - | - | - | - | 7.17 |
| 1500 | - | - | - | - | - | - | - | - | 6.06 |
| 1600 | - | - | - | - | - | - | - | 0.34 | 7.72 |
| 1700 | - | - | - | - | - | - | - | 0.35 | 8.36 |
| 1800 | - | - | - | - | - | - | - | - | 10.84 |
| 1900 | - | - | - | - | - | - | - | 0.34 | 11.15 |
| 2000 | - | - | - | - | - | - | - | 0.74 | 10.37 |
| 2100 | - | - | - | - | - | - | - | - | 13.26 |
| 2200 | - | - | - | - | - | - | - | 1.03 | 10.62 |
| 2300 | - | - | - | - | - | 0.37 | 0.37 | 1.47 | 13.24 |
| TOTAL | - | - | 0.10 | 0.13 | 0.30 | 0.41 | 0.47 | 0.93 | 10.55 |

In April, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.10% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.47% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

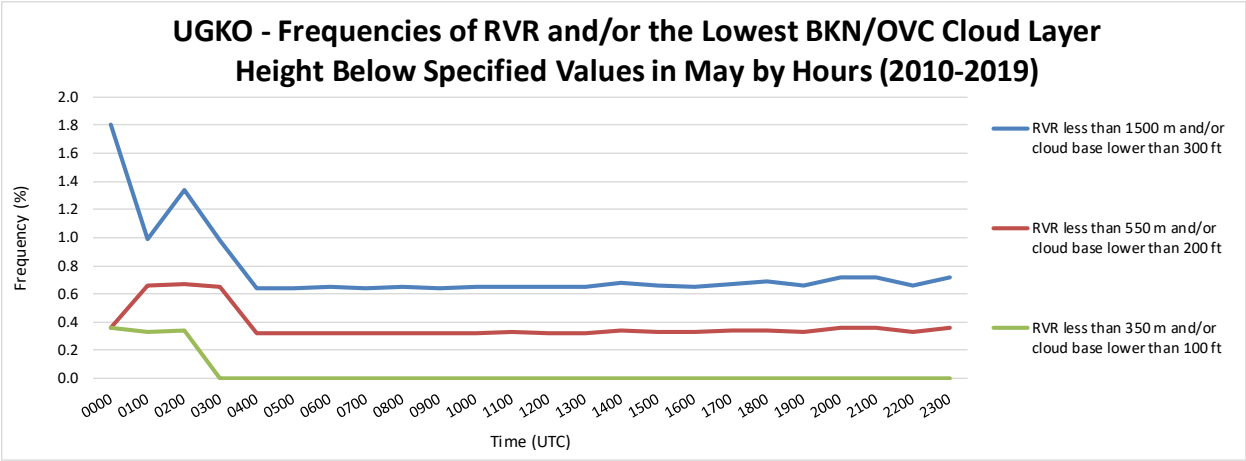
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

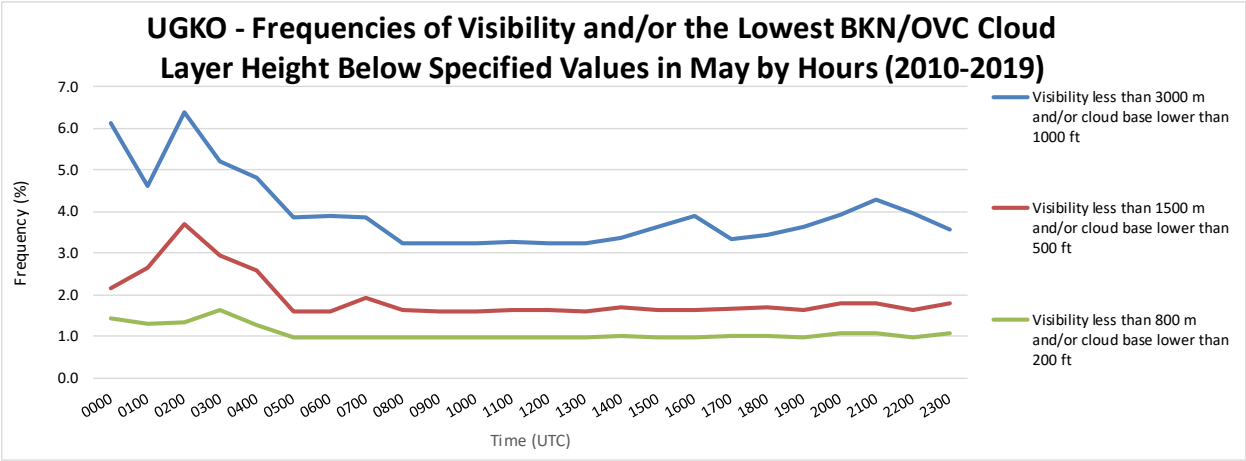
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | 0.36 | 0.36 | 1.81 | 1.44 | 2.17 | 6.14 | 22.74 |
| 0100 | - | - | 0.33 | 0.66 | 0.99 | 1.32 | 2.64 | 4.62 | 20.46 |
| 0200 | - | - | 0.34 | 0.67 | 1.34 | 1.34 | 3.69 | 6.38 | 28.86 |
| 0300 | - | - | - | 0.65 | 0.98 | 1.63 | 2.93 | 5.21 | 26.71 |
| 0400 | - | - | - | 0.32 | 0.64 | 1.29 | 2.57 | 4.82 | 20.90 |
| 0500 | - | - | - | 0.32 | 0.65 | 0.97 | 1.61 | 3.87 | 18.39 |
| 0600 | - | - | - | 0.32 | 0.65 | 0.97 | 1.62 | 3.88 | 16.50 |
| 0700 | - | - | - | 0.32 | 0.65 | 0.97 | 1.94 | 3.87 | 14.52 |
| 0800 | - | - | - | 0.32 | 0.65 | 0.97 | 1.62 | 3.25 | 13.31 |
| 0900 | - | - | - | 0.32 | 0.65 | 0.97 | 1.61 | 3.23 | 13.55 |
| 1000 | - | - | - | 0.32 | 0.65 | 0.97 | 1.62 | 3.24 | 12.30 |
| 1100 | - | - | - | 0.33 | 0.65 | 0.98 | 1.63 | 3.27 | 13.73 |
| 1200 | - | - | - | 0.32 | 0.65 | 0.97 | 1.62 | 3.25 | 14.29 |
| 1300 | - | - | - | 0.32 | 0.65 | 0.97 | 1.62 | 3.24 | 13.59 |
| 1400 | - | - | - | 0.34 | 0.68 | 1.01 | 1.69 | 3.38 | 14.53 |
| 1500 | - | - | - | 0.33 | 0.66 | 0.99 | 1.65 | 3.63 | 14.85 |
| 1600 | - | - | - | 0.33 | 0.65 | 0.98 | 1.63 | 3.91 | 15.64 |
| 1700 | - | - | - | 0.34 | 0.67 | 1.01 | 1.68 | 3.36 | 16.11 |
| 1800 | - | - | - | 0.34 | 0.68 | 1.03 | 1.71 | 3.42 | 15.41 |
| 1900 | - | - | - | 0.33 | 0.66 | 0.99 | 1.64 | 3.62 | 14.80 |
| 2000 | - | - | - | 0.36 | 0.71 | 1.07 | 1.79 | 3.93 | 15.36 |
| 2100 | - | - | - | 0.36 | 0.71 | 1.07 | 1.79 | 4.29 | 17.50 |
| 2200 | - | - | - | 0.33 | 0.66 | 0.99 | 1.65 | 3.96 | 15.84 |
| 2300 | - | - | - | 0.36 | 0.72 | 1.08 | 1.79 | 3.58 | 17.56 |
| TOTAL | - | - | 0.04 | 0.37 | 0.76 | 1.08 | 1.91 | 3.96 | 16.95 |

In May, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.04% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 1.91% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

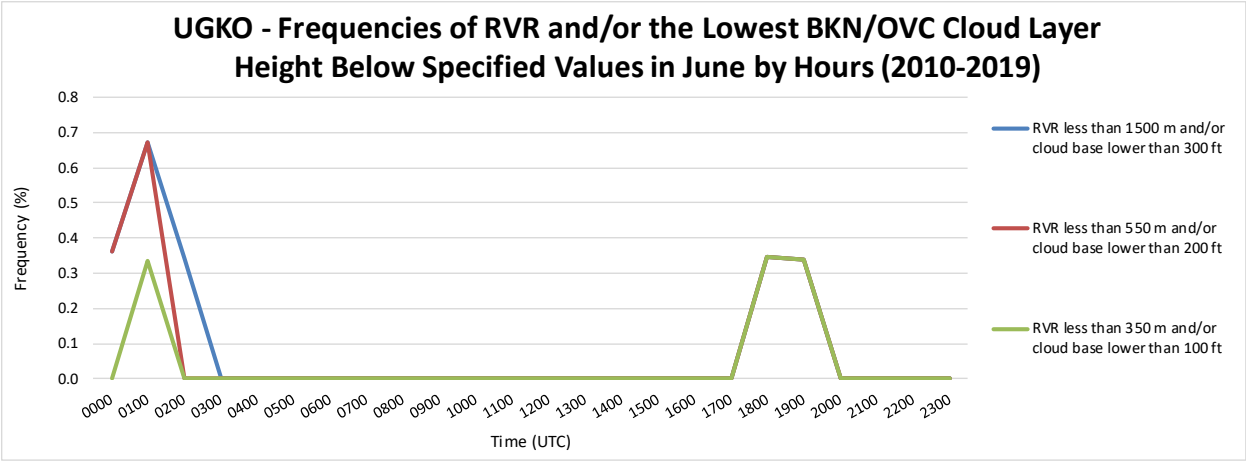
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

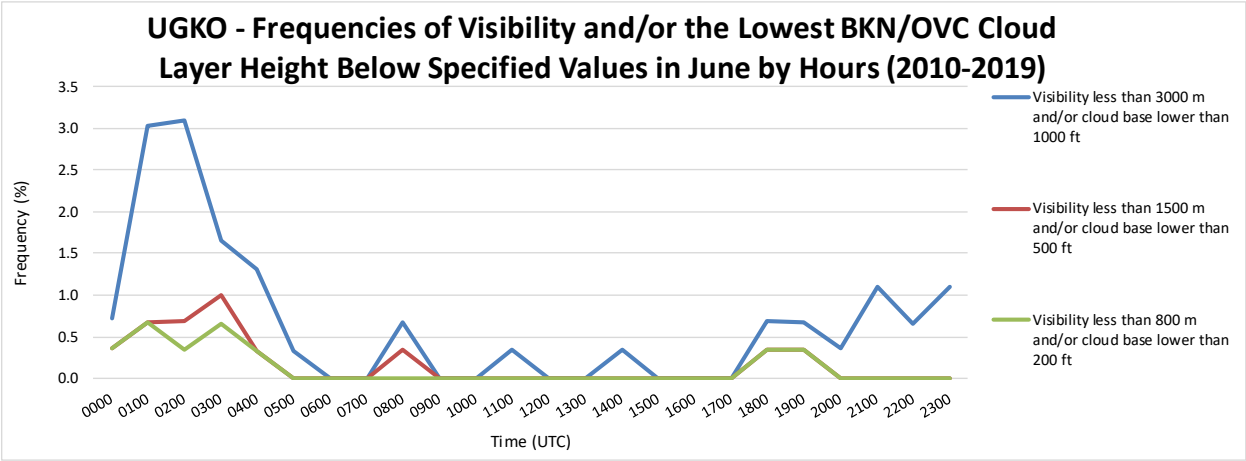
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | 0.36 | 0.36 | 0.36 | 0.36 | 0.72 | 13.72 |
| 0100 | - | - | 0.34 | 0.67 | 0.67 | 0.67 | 0.67 | 3.03 | 20.54 |
| 0200 | - | - | - | - | 0.34 | 0.34 | 0.69 | 3.10 | 18.28 |
| 0300 | - | - | - | - | - | 0.66 | 0.99 | 1.66 | 13.25 |
| 0400 | - | - | - | - | - | 0.33 | 0.33 | 1.32 | 7.24 |
| 0500 | - | - | - | - | - | - | - | 0.33 | 3.32 |
| 0600 | - | - | - | - | - | - | - | - | 2.00 |
| 0700 | - | - | - | - | - | - | - | - | 1.98 |
| 0800 | - | - | - | - | - | - | 0.34 | 0.67 | 2.36 |
| 0900 | - | - | - | - | - | - | - | - | 2.03 |
| 1000 | - | - | - | - | - | - | - | - | 1.33 |
| 1100 | - | - | - | - | - | - | - | 0.34 | 1.36 |
| 1200 | - | - | - | - | - | - | - | - | 1.02 |
| 1300 | - | - | - | - | - | - | - | - | 2.33 |
| 1400 | - | - | - | - | - | - | - | 0.34 | 3.39 |
| 1500 | - | - | - | - | - | - | - | - | 3.00 |
| 1600 | - | - | - | - | - | - | - | - | 4.98 |
| 1700 | - | - | - | - | - | - | - | - | 6.55 |
| 1800 | - | - | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.69 | 7.29 |
| 1900 | - | - | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.68 | 7.77 |
| 2000 | - | - | - | - | - | - | - | 0.36 | 7.58 |
| 2100 | - | - | - | - | - | - | - | 1.09 | 10.18 |
| 2200 | - | - | - | - | - | - | - | 0.66 | 11.59 |
| 2300 | - | - | - | - | - | - | - | 1.10 | 12.09 |
| TOTAL | - | - | 0.04 | 0.07 | 0.09 | 0.13 | 0.17 | 0.67 | 6.82 |

In June, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.04% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.17% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

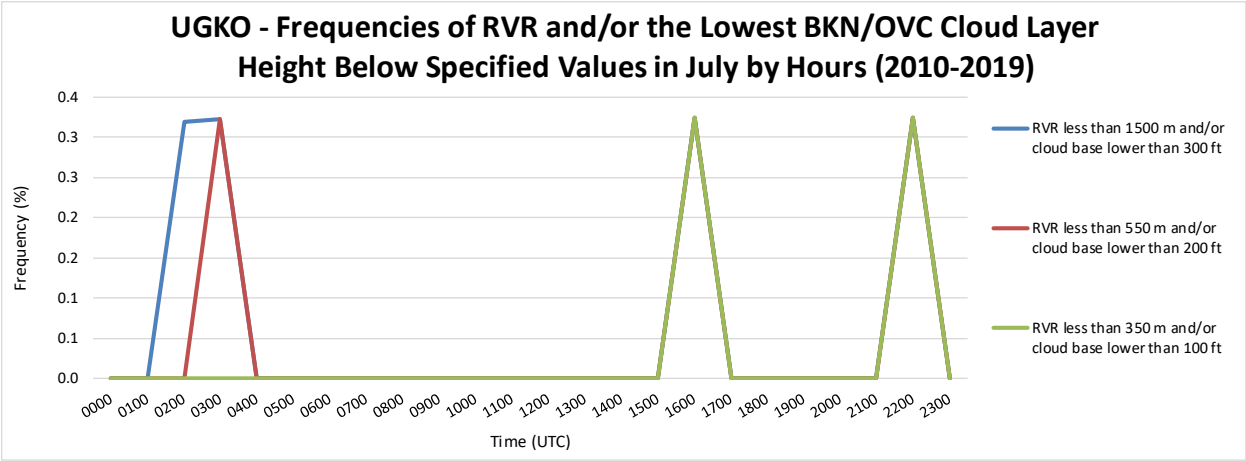
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

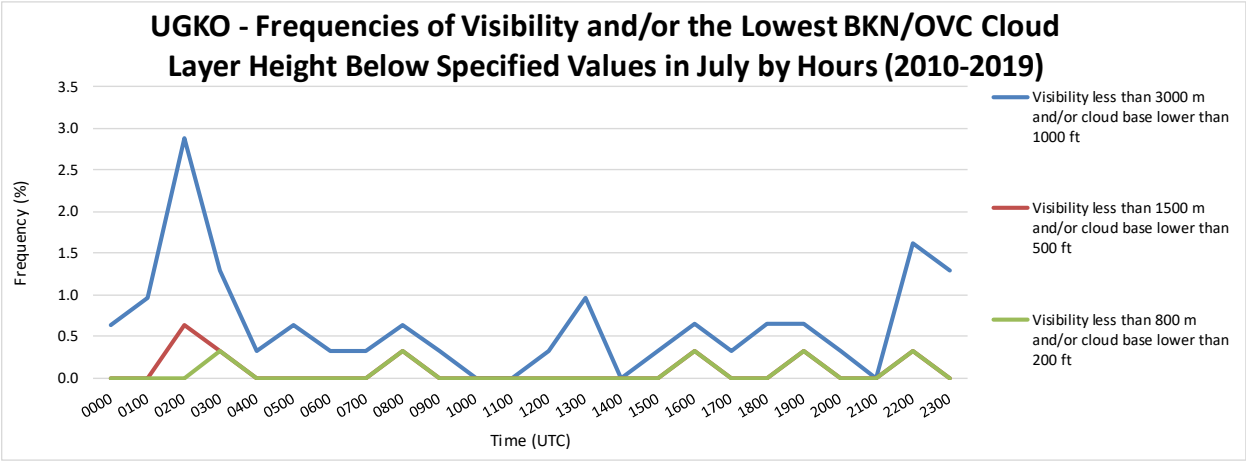
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | 0.64 | 15.06 |
| 0100 | - | - | - | - | - | - | - | 0.96 | 18.97 |
| 0200 | - | - | - | - | 0.32 | - | 0.64 | 2.88 | 23.64 |
| 0300 | - | - | - | 0.32 | 0.32 | 0.32 | 0.32 | 1.29 | 16.77 |
| 0400 | - | - | - | - | - | - | - | 0.32 | 7.74 |
| 0500 | - | - | - | - | - | - | - | 0.65 | 5.16 |
| 0600 | - | - | - | - | - | - | - | 0.32 | 3.55 |
| 0700 | - | - | - | - | - | - | - | 0.32 | 3.23 |
| 0800 | - | - | - | - | - | 0.32 | 0.32 | 0.65 | 2.90 |
| 0900 | - | - | - | - | - | - | - | 0.32 | 2.26 |
| 1000 | - | - | - | - | - | - | - | - | 2.90 |
| 1100 | - | - | - | - | - | - | - | - | 2.57 |
| 1200 | - | - | - | - | - | - | - | 0.32 | 1.94 |
| 1300 | - | - | - | - | - | - | - | 0.97 | 1.94 |
| 1400 | - | - | - | - | - | - | - | - | 0.97 |
| 1500 | - | - | - | - | - | - | - | 0.32 | 2.24 |
| 1600 | - | - | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.65 | 3.57 |
| 1700 | - | - | - | - | - | - | - | 0.33 | 3.91 |
| 1800 | - | - | - | - | - | - | - | 0.65 | 3.88 |
| 1900 | - | - | - | - | - | 0.32 | 0.32 | 0.65 | 6.17 |
| 2000 | - | - | - | - | - | - | - | 0.32 | 6.41 |
| 2100 | - | - | - | - | - | - | - | - | 9.32 |
| 2200 | - | - | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 1.62 | 12.62 |
| 2300 | - | - | - | - | - | - | - | 1.29 | 11.29 |
| TOTAL | - | - | 0.03 | 0.04 | 0.05 | 0.07 | 0.09 | 0.65 | 7.06 |

In July, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.03% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.09% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

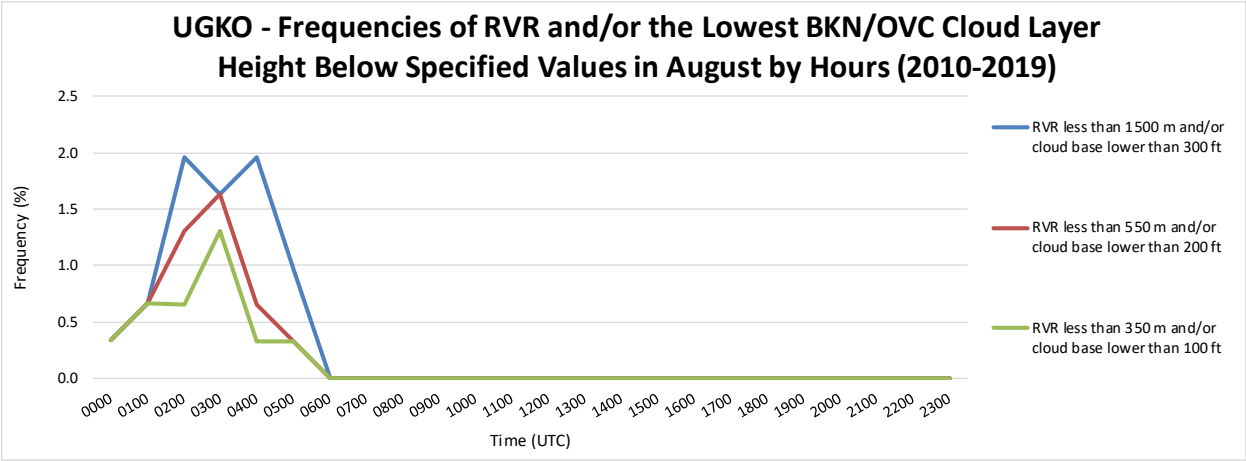
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

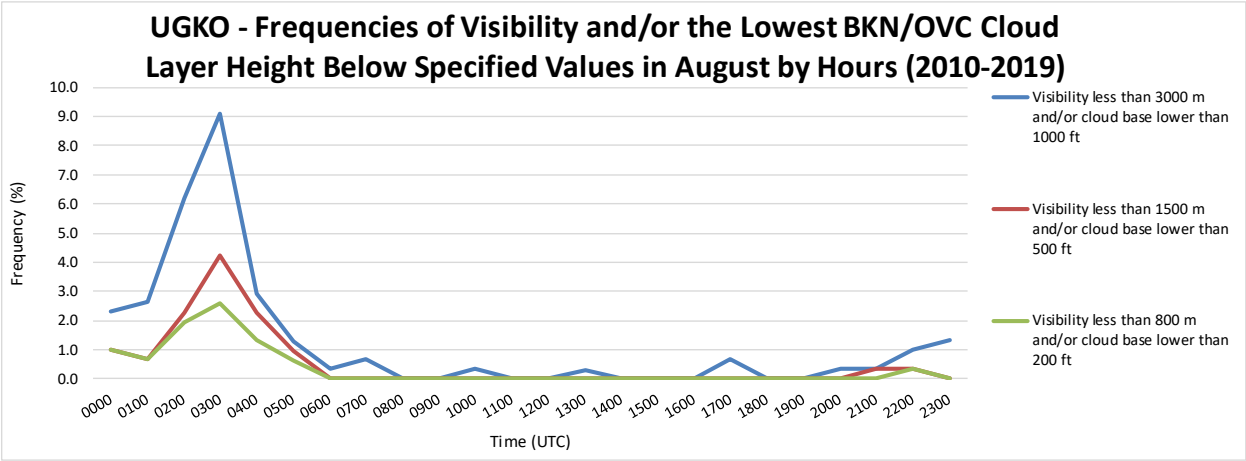
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | 0.33 | 0.33 | 0.33 | 1.00 | 1.00 | 2.33 | 18.60 |
| 0100 | - | - | 0.66 | 0.66 | 0.66 | 0.66 | 0.66 | 2.64 | 20.46 |
| 0200 | - | - | 0.65 | 1.31 | 1.96 | 1.96 | 2.29 | 6.21 | 25.49 |
| 0300 | - | - | 1.30 | 1.63 | 1.63 | 2.61 | 4.23 | 9.12 | 25.73 |
| 0400 | - | - | 0.33 | 0.65 | 1.96 | 1.31 | 2.29 | 2.94 | 15.03 |
| 0500 | - | - | 0.32 | 0.32 | 0.96 | 0.64 | 0.96 | 1.28 | 6.73 |
| 0600 | - | - | - | - | - | - | - | 0.33 | 1.96 |
| 0700 | - | - | - | - | - | - | - | 0.65 | 1.96 |
| 0800 | - | - | - | - | - | - | - | - | 1.31 |
| 0900 | - | - | - | - | - | - | - | - | 1.29 |
| 1000 | - | - | - | - | - | - | - | 0.33 | 1.63 |
| 1100 | - | - | - | - | - | - | - | - | 1.30 |
| 1200 | - | - | - | - | - | - | - | - | 1.62 |
| 1300 | - | - | - | - | - | - | - | 0.32 | 1.61 |
| 1400 | - | - | - | - | - | - | - | - | 2.25 |
| 1500 | - | - | - | - | - | - | - | - | 1.63 |
| 1600 | - | - | - | - | - | - | - | - | 2.63 |
| 1700 | - | - | - | - | - | - | - | 0.66 | 4.26 |
| 1800 | - | - | - | - | - | - | - | - | 3.64 |
| 1900 | - | - | - | - | - | - | - | - | 4.65 |
| 2000 | - | - | - | - | - | - | - | 0.33 | 3.62 |
| 2100 | - | - | - | - | - | - | 0.33 | 0.33 | 7.28 |
| 2200 | - | - | - | - | - | 0.33 | 0.33 | 0.99 | 10.26 |
| 2300 | - | - | - | - | - | - | - | 1.31 | 13.44 |
| TOTAL | - | - | 0.15 | 0.20 | 0.31 | 0.35 | 0.50 | 1.24 | 7.41 |

In August, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.15% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.50% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

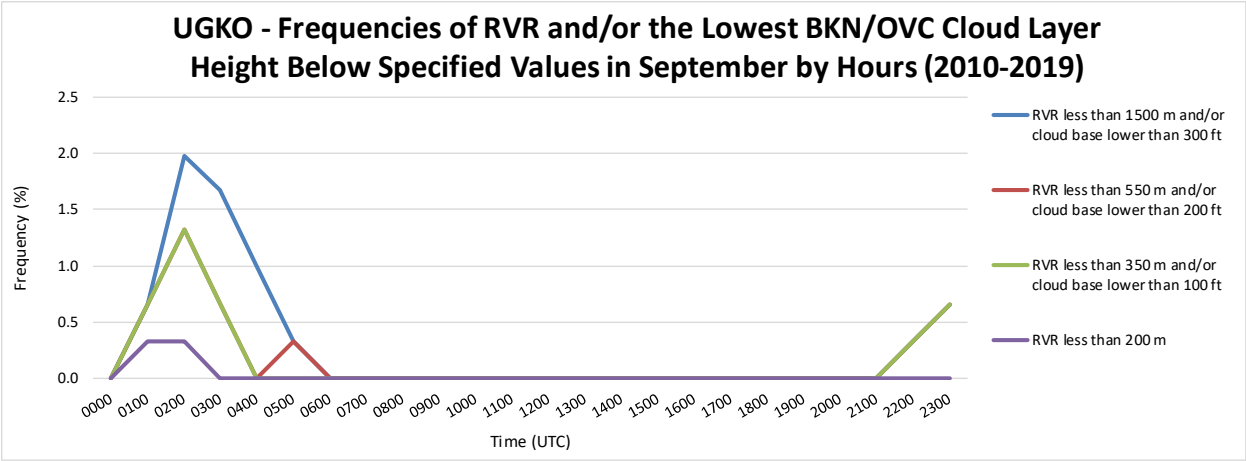
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

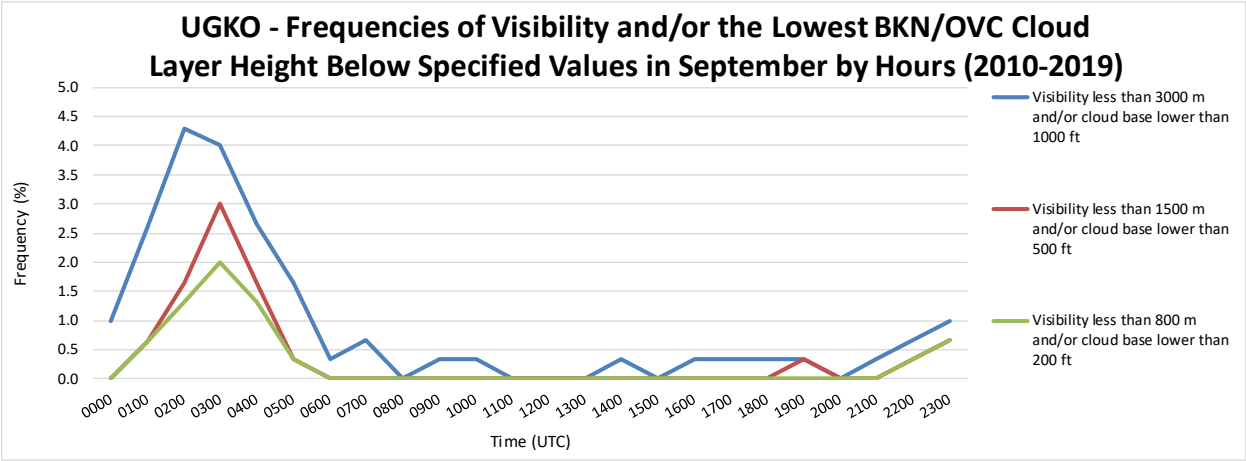
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | 1.00 | 12.96 |
| 0100 | - | 0.32 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 2.60 | 12.66 |
| 0200 | - | 0.33 | 1.32 | 1.32 | 1.98 | 1.32 | 1.65 | 4.29 | 16.50 |
| 0300 | - | - | 0.67 | 0.67 | 1.67 | 2.01 | 3.01 | 4.01 | 18.06 |
| 0400 | - | - | - | - | 0.99 | 1.32 | 1.66 | 2.65 | 12.91 |
| 0500 | - | - | - | 0.33 | 0.33 | 0.33 | 0.33 | 1.64 | 6.91 |
| 0600 | - | - | - | - | - | - | - | 0.33 | 5.67 |
| 0700 | - | - | - | - | - | - | - | 0.67 | 3.01 |
| 0800 | - | - | - | - | - | - | - | - | 3.01 |
| 0900 | - | - | - | - | - | - | - | 0.33 | 3.00 |
| 1000 | - | - | - | - | - | - | - | 0.34 | 5.03 |
| 1100 | - | - | - | - | - | - | - | - | 3.36 |
| 1200 | - | - | - | - | - | - | - | - | 3.31 |
| 1300 | - | - | - | - | - | - | - | - | 3.01 |
| 1400 | - | - | - | - | - | - | - | 0.33 | 2.68 |
| 1500 | - | - | - | - | - | - | - | - | 5.70 |
| 1600 | - | - | - | - | - | - | - | 0.33 | 5.30 |
| 1700 | - | - | - | - | - | - | - | 0.33 | 5.02 |
| 1800 | - | - | - | - | - | - | - | 0.33 | 5.32 |
| 1900 | - | - | - | - | - | - | 0.33 | 0.33 | 6.31 |
| 2000 | - | - | - | - | - | - | - | - | 6.60 |
| 2100 | - | - | - | - | - | - | - | 0.33 | 9.70 |
| 2200 | - | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.66 | 9.30 |
| 2300 | - | - | 0.66 | 0.66 | 0.66 | 0.66 | 0.66 | 0.99 | 10.53 |
| TOTAL | - | 0.03 | 0.15 | 0.17 | 0.28 | 0.28 | 0.36 | 0.90 | 7.34 |

In September, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 200 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.03% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.36% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

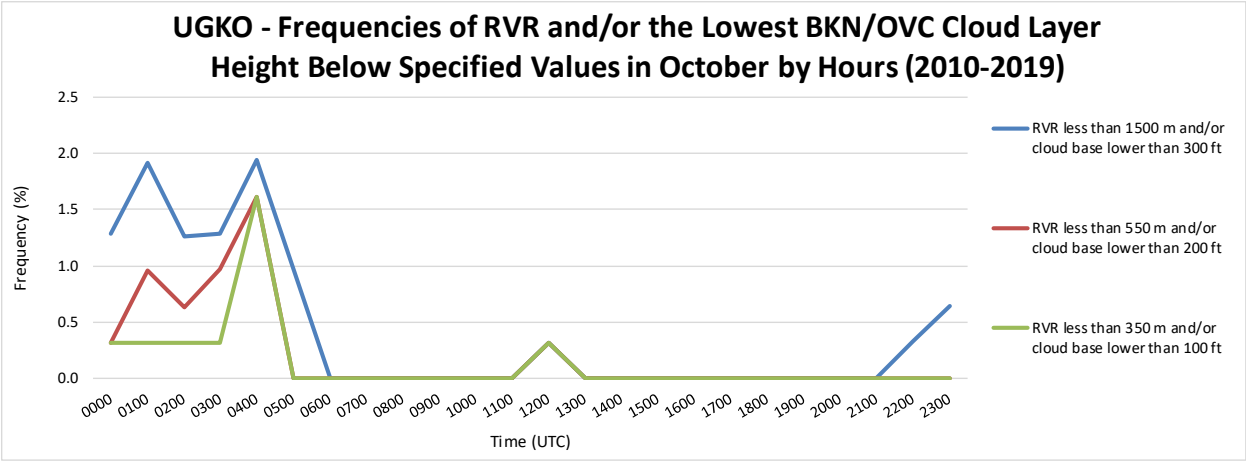
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

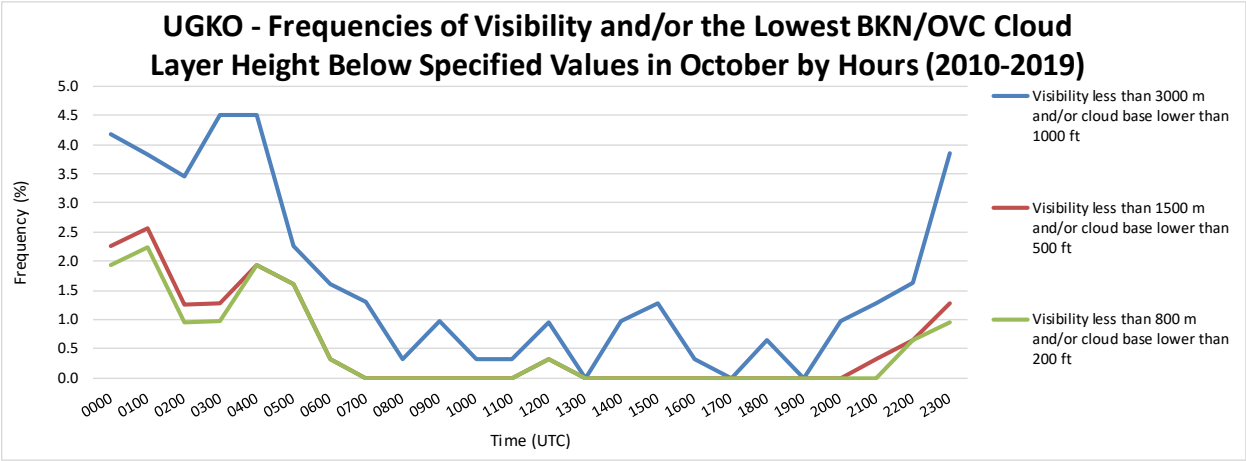
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | 0.32 | 0.32 | 1.29 | 1.93 | 2.25 | 4.18 | 19.94 |
| 0100 | - | - | 0.32 | 0.96 | 1.92 | 2.24 | 2.56 | 3.83 | 19.49 |
| 0200 | - | - | 0.31 | 0.63 | 1.26 | 0.94 | 1.26 | 3.46 | 19.50 |
| 0300 | - | - | 0.32 | 0.96 | 1.29 | 0.96 | 1.29 | 4.50 | 18.97 |
| 0400 | - | 0.97 | 1.61 | 1.61 | 1.94 | 1.94 | 1.94 | 4.52 | 17.42 |
| 0500 | - | - | - | - | 0.96 | 1.61 | 1.61 | 2.25 | 11.90 |
| 0600 | - | - | - | - | - | 0.32 | 0.32 | 1.61 | 8.04 |
| 0700 | - | - | - | - | - | - | - | 1.29 | 8.09 |
| 0800 | - | - | - | - | - | - | - | 0.32 | 6.47 |
| 0900 | - | - | - | - | - | - | - | 0.96 | 6.43 |
| 1000 | - | - | - | - | - | - | - | 0.32 | 4.82 |
| 1100 | - | - | - | - | - | - | - | 0.32 | 5.81 |
| 1200 | - | - | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.96 | 4.15 |
| 1300 | - | - | - | - | - | - | - | - | 4.87 |
| 1400 | - | - | - | - | - | - | - | 0.97 | 3.23 |
| 1500 | - | - | - | - | - | - | - | 1.29 | 7.10 |
| 1600 | - | - | - | - | - | - | - | 0.32 | 8.63 |
| 1700 | - | - | - | - | - | - | - | - | 7.10 |
| 1800 | - | - | - | - | - | - | - | 0.65 | 8.77 |
| 1900 | - | - | - | - | - | - | - | - | 12.90 |
| 2000 | - | - | - | - | - | - | - | 0.97 | 16.50 |
| 2100 | - | - | - | - | - | - | 0.32 | 1.28 | 14.42 |
| 2200 | - | - | - | - | 0.33 | 0.65 | 0.65 | 1.63 | 16.94 |
| 2300 | - | - | - | - | 0.64 | 0.96 | 1.28 | 3.85 | 15.71 |
| TOTAL | - | 0.04 | 0.13 | 0.20 | 0.42 | 0.50 | 0.58 | 1.65 | 11.14 |

In October, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 200 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.04% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.58% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

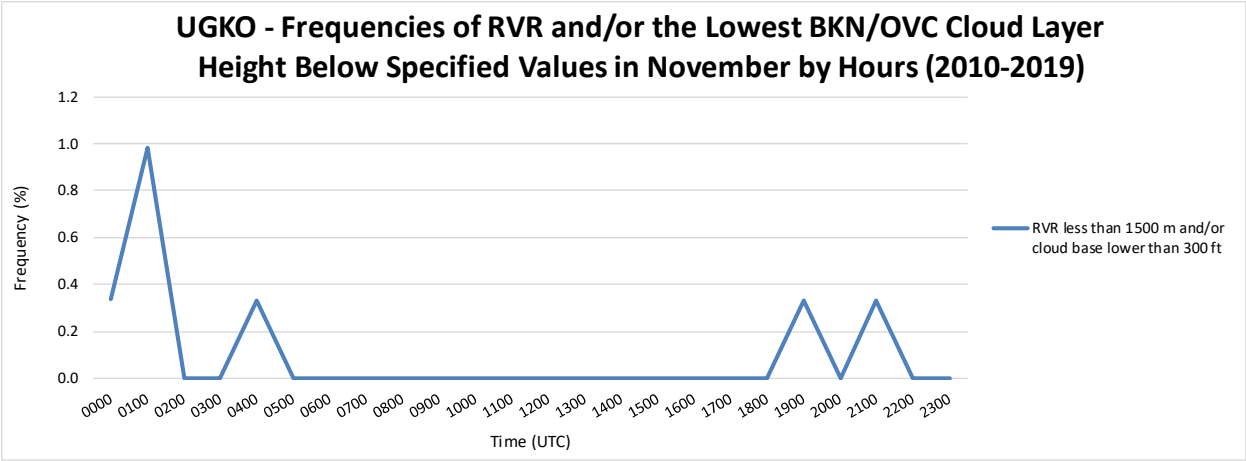
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

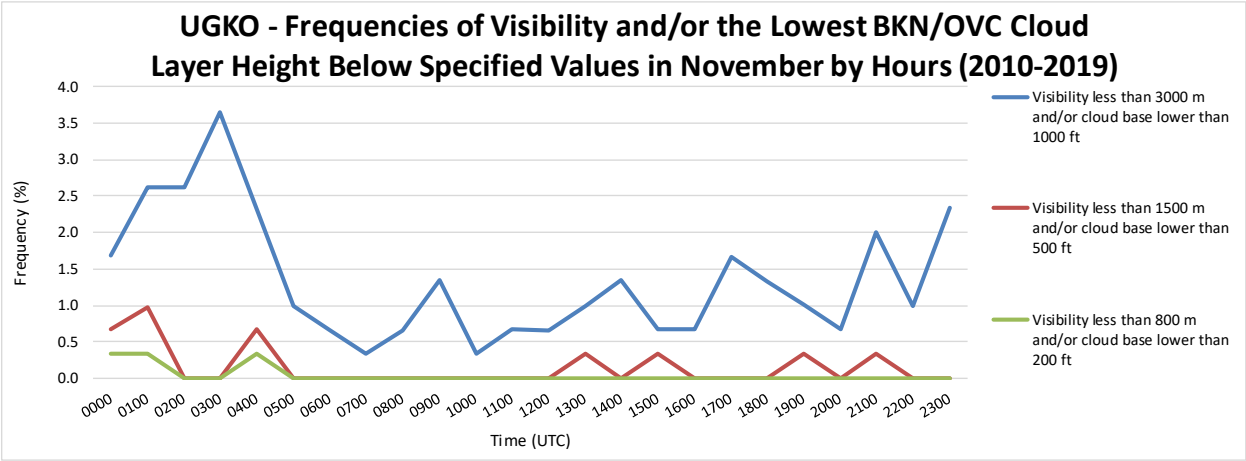
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | 0.34 | 0.34 | 0.67 | 1.68 | 17.11 |
| 0100 | - | - | 0.33 | 0.33 | 0.98 | 0.33 | 0.98 | 2.61 | 17.32 |
| 0200 | - | - | - | - | - | - | - | 2.62 | 16.39 |
| 0300 | - | - | - | - | - | - | - | 3.64 | 17.88 |
| 0400 | - | - | - | - | 0.33 | 0.33 | 0.66 | 2.33 | 17.61 |
| 0500 | - | - | - | - | - | - | - | 0.99 | 13.58 |
| 0600 | - | - | - | - | - | - | - | 0.66 | 9.90 |
| 0700 | - | - | - | - | - | - | - | 0.33 | 9.24 |
| 0800 | - | - | - | - | - | - | - | 0.66 | 9.21 |
| 0900 | - | - | - | - | - | - | - | 1.34 | 7.69 |
| 1000 | - | - | - | - | - | - | - | 0.33 | 6.95 |
| 1100 | - | - | - | - | - | - | - | 0.66 | 5.65 |
| 1200 | - | - | - | - | - | - | - | 0.66 | 6.58 |
| 1300 | - | - | - | - | - | - | 0.33 | 1.00 | 6.98 |
| 1400 | - | - | - | - | - | - | - | 1.35 | 7.74 |
| 1500 | - | - | - | - | - | - | 0.33 | 0.66 | 8.97 |
| 1600 | - | - | - | - | - | - | - | 0.67 | 8.33 |
| 1700 | - | - | - | - | - | - | - | 1.66 | 9.27 |
| 1800 | - | - | - | - | - | - | - | 1.33 | 12.62 |
| 1900 | - | - | - | - | 0.33 | - | 0.33 | 1.00 | 13.04 |
| 2000 | - | - | - | - | - | - | - | 0.66 | 13.95 |
| 2100 | - | - | - | - | 0.33 | - | 0.33 | 2.01 | 15.05 |
| 2200 | - | - | - | - | - | - | - | 1.00 | 16.94 |
| 2300 | - | - | - | - | - | - | - | 2.33 | 15.00 |
| TOTAL | - | - | 0.01 | 0.01 | 0.10 | 0.04 | 0.15 | 1.34 | 11.79 |

In November, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.01% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.15% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGKO MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

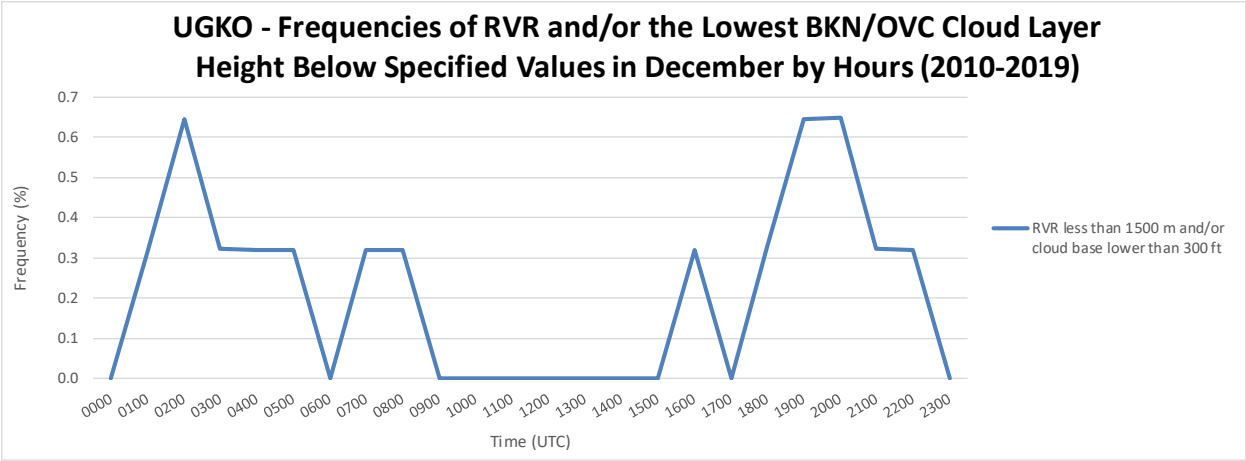
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

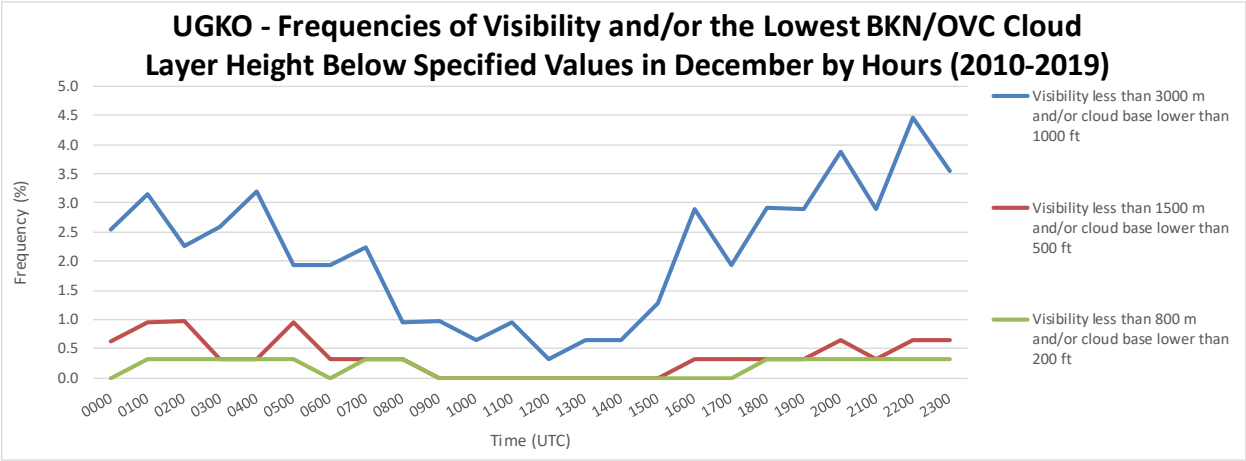
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | 0.63 | 2.54 | 18.73 |
| 0100 | - | - | - | 0.32 | 0.32 | 0.32 | 0.95 | 3.15 | 16.72 |
| 0200 | - | - | - | - | 0.64 | 0.32 | 0.96 | 2.25 | 17.04 |
| 0300 | - | - | - | - | 0.32 | 0.32 | 0.32 | 2.58 | 14.52 |
| 0400 | - | - | - | - | 0.32 | 0.32 | 0.32 | 3.21 | 13.46 |
| 0500 | - | - | - | - | 0.32 | 0.32 | 0.96 | 1.92 | 15.06 |
| 0600 | - | - | - | - | - | - | 0.32 | 1.94 | 10.68 |
| 0700 | - | - | - | - | 0.32 | 0.32 | 0.32 | 2.24 | 10.90 |
| 0800 | - | - | - | - | 0.32 | 0.32 | 0.32 | 0.96 | 10.19 |
| 0900 | - | - | - | - | - | - | - | 0.97 | 8.39 |
| 1000 | - | - | - | - | - | - | - | 0.64 | 8.97 |
| 1100 | - | - | - | - | - | - | - | 0.96 | 9.29 |
| 1200 | - | - | - | - | - | - | - | 0.32 | 9.71 |
| 1300 | - | - | - | - | - | - | - | 0.64 | 9.29 |
| 1400 | - | - | - | - | - | - | - | 0.64 | 10.61 |
| 1500 | - | - | - | - | - | - | - | 1.28 | 11.82 |
| 1600 | - | - | - | - | 0.32 | - | 0.32 | 2.88 | 14.74 |
| 1700 | - | - | - | - | - | - | 0.32 | 1.93 | 14.47 |
| 1800 | - | - | - | - | 0.32 | 0.32 | 0.32 | 2.92 | 15.58 |
| 1900 | - | - | - | - | 0.64 | 0.32 | 0.32 | 2.89 | 15.11 |
| 2000 | - | - | - | - | 0.65 | 0.32 | 0.65 | 3.88 | 16.83 |
| 2100 | - | - | - | - | 0.32 | 0.32 | 0.32 | 2.89 | 17.04 |
| 2200 | - | - | - | - | 0.32 | 0.32 | 0.64 | 4.46 | 17.52 |
| 2300 | - | - | - | - | - | 0.32 | 0.65 | 3.56 | 16.18 |
| TOTAL | - | - | - | 0.01 | 0.21 | 0.17 | 0.36 | 2.15 | 13.46 |

In December, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 550 meters and/or cloud ceiling below 200 feet, based on Ten-year observation, constitutes 0.01% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Kutaisi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.36% (see Model A).



**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGKO MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | 0.36 | 0.36 | 0.36 | 0.71 | 1.07 | 3.20 | 7.83 | 19.22 |
| 0100 | - | 0.32 | 0.32 | 0.65 | 1.29 | 4.52 | 9.03 | 21.29 |
| 0200 | 0.35 | 1.41 | 1.41 | 1.41 | 2.12 | 3.89 | 8.83 | 19.08 |
| 0300 | - | 1.00 | 1.00 | 1.33 | 1.67 | 5.00 | 8.00 | 16.00 |
| 0400 | - | 0.32 | 0.65 | 0.65 | 0.97 | 2.60 | 8.77 | 17.21 |
| 0500 | - | 0.65 | 0.65 | 0.65 | 0.97 | 3.23 | 6.45 | 14.52 |
| 0600 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 1.59 | 5.10 | 16.24 |
| 0700 | - | 0.65 | 0.97 | 0.97 | 0.97 | 3.56 | 6.15 | 14.24 |
| 0800 | - | 0.33 | 0.65 | 0.65 | 0.98 | 1.63 | 6.84 | 13.68 |
| 0900 | - | - | - | - | - | 1.94 | 5.81 | 12.26 |
| 1000 | - | 0.33 | 0.33 | 0.33 | 0.33 | 1.63 | 4.90 | 13.07 |
| 1100 | - | - | - | - | 0.32 | 1.62 | 4.55 | 11.04 |
| 1200 | - | - | 0.33 | 0.33 | 0.66 | 1.32 | 4.28 | 9.87 |
| 1300 | - | - | - | 0.33 | 0.65 | 1.63 | 5.21 | 12.38 |
| 1400 | - | 0.33 | 0.66 | 0.66 | 0.66 | 1.66 | 5.63 | 11.92 |
| 1500 | - | - | - | - | 0.34 | 1.35 | 5.72 | 12.12 |
| 1600 | - | - | - | - | 0.65 | 2.29 | 6.21 | 12.75 |
| 1700 | 0.35 | 0.35 | 0.35 | 0.35 | 1.06 | 1.77 | 7.09 | 16.67 |
| 1800 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 2.15 | 6.09 | 16.13 |
| 1900 | - | 0.33 | 0.66 | 0.66 | 1.33 | 2.66 | 7.64 | 16.61 |
| 2000 | - | - | - | 0.36 | 0.72 | 2.17 | 5.80 | 16.67 |
| 2100 | - | 0.36 | 0.36 | 0.36 | 1.07 | 2.85 | 6.05 | 17.44 |
| 2200 | - | 0.72 | 0.72 | 0.72 | 1.43 | 3.58 | 6.45 | 16.49 |
| 2300 | 0.35 | 0.35 | 0.35 | 0.35 | 0.71 | 2.84 | 7.09 | 17.73 |
| Mean | 0.11 | 0.38 | 0.46 | 0.53 | 0.89 | 2.53 | 6.48 | 15.19 |

According to the climatological table of January the mean percentage of visibility values below 8000 meters is 15.19%, correspondingly, the mean percentage of 84.81% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.11% (See climatological table of January, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGKO MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 6768 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | 0.39 | 0.39 | 4.72 | 10.63 | 17.32 |
| 0100 | 0.34 | 0.34 | 0.34 | 0.34 | 0.69 | 3.78 | 8.93 | 19.24 |
| 0200 | 0.36 | 0.73 | 1.09 | 1.09 | 1.09 | 4.73 | 8.73 | 19.27 |
| 0300 | 0.35 | 0.35 | 0.35 | 0.70 | 0.70 | 4.23 | 8.80 | 18.66 |
| 0400 | - | - | 0.35 | 0.35 | 0.70 | 3.52 | 8.45 | 20.07 |
| 0500 | - | 0.36 | 0.71 | 0.71 | 1.42 | 3.91 | 8.90 | 19.22 |
| 0600 | 0.35 | 0.35 | 0.35 | 0.35 | 1.41 | 4.93 | 8.10 | 17.96 |
| 0700 | - | - | - | - | 0.36 | 2.14 | 5.34 | 14.95 |
| 0800 | - | - | - | - | - | 2.81 | 5.61 | 13.68 |
| 0900 | - | - | - | - | 0.35 | 2.13 | 3.90 | 10.28 |
| 1000 | - | - | - | - | 0.35 | 1.42 | 3.90 | 11.35 |
| 1100 | - | - | - | - | - | 2.50 | 4.64 | 8.93 |
| 1200 | - | - | - | - | 0.35 | 1.77 | 4.24 | 9.54 |
| 1300 | - | - | - | - | - | 1.05 | 3.83 | 8.36 |
| 1400 | - | - | - | - | 0.71 | 1.79 | 3.93 | 8.57 |
| 1500 | - | - | - | - | 0.36 | 2.17 | 6.88 | 11.96 |
| 1600 | - | - | - | - | - | 2.83 | 6.01 | 12.37 |
| 1700 | - | - | - | - | - | 2.95 | 7.01 | 12.55 |
| 1800 | - | 0.36 | 0.36 | 0.36 | 0.36 | 2.17 | 7.25 | 13.77 |
| 1900 | - | 0.35 | 0.35 | 0.35 | 0.35 | 2.83 | 6.36 | 15.19 |
| 2000 | - | - | - | - | 0.38 | 2.31 | 7.69 | 17.31 |
| 2100 | - | - | - | - | 0.40 | 2.78 | 9.13 | 19.84 |
| 2200 | - | - | - | - | 0.37 | 2.99 | 9.70 | 20.52 |
| 2300 | - | - | - | - | - | 2.77 | 8.70 | 18.97 |
| Mean | 0.06 | 0.12 | 0.16 | 0.19 | 0.45 | 2.88 | 6.94 | 15.00 |

According to the climatological table of February the mean percentage of visibility values below 8000 meters is 15.00%, correspondingly, the mean percentage of 85.00% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.06% (See climatological table of February, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGKO MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | 0.36 | 0.71 | 1.07 | 1.07 | 1.07 | 2.14 | 6.41 | 16.73 |
| 0100 | 0.32 | 0.32 | 0.64 | 0.64 | 1.27 | 2.87 | 6.69 | 20.38 |
| 0200 | - | - | 0.67 | 0.67 | 0.67 | 1.68 | 7.41 | 18.86 |
| 0300 | 0.32 | 0.32 | 0.65 | 0.65 | 1.29 | 2.58 | 7.42 | 20.00 |
| 0400 | - | - | - | 0.32 | 2.24 | 4.49 | 10.58 | 19.55 |
| 0500 | - | - | - | - | 0.65 | 1.61 | 6.13 | 19.03 |
| 0600 | - | - | - | - | - | 0.97 | 4.87 | 14.29 |
| 0700 | - | - | - | - | - | 0.32 | 4.53 | 11.65 |
| 0800 | - | - | - | - | - | 0.33 | 1.95 | 11.40 |
| 0900 | - | - | - | - | 0.32 | 0.64 | 3.22 | 9.65 |
| 1000 | - | - | - | - | 0.32 | 0.65 | 1.95 | 9.42 |
| 1100 | - | - | - | - | 0.65 | 0.98 | 1.96 | 10.13 |
| 1200 | - | - | 0.33 | 0.33 | 0.33 | 0.65 | 2.61 | 9.77 |
| 1300 | - | - | 0.33 | 0.33 | 0.33 | 0.98 | 3.28 | 8.52 |
| 1400 | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 2.67 | 7.67 |
| 1500 | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.66 | 2.66 | 7.31 |
| 1600 | - | - | 0.32 | 0.32 | 0.32 | 0.65 | 1.95 | 7.79 |
| 1700 | - | - | 0.34 | 0.34 | 0.34 | 1.02 | 3.73 | 13.22 |
| 1800 | - | - | 0.34 | 0.34 | 0.34 | 0.67 | 3.03 | 11.11 |
| 1900 | - | - | 0.32 | 0.32 | 0.32 | 0.96 | 2.57 | 11.58 |
| 2000 | - | - | 0.71 | 0.71 | 0.71 | 1.06 | 4.24 | 10.95 |
| 2100 | 0.36 | 0.36 | 0.36 | 0.36 | 0.71 | 1.07 | 4.27 | 11.39 |
| 2200 | 0.34 | 0.68 | 1.02 | 1.02 | 1.02 | 2.05 | 4.10 | 11.95 |
| 2300 | 0.36 | 0.36 | 1.08 | 1.08 | 1.08 | 1.81 | 5.42 | 12.27 |
| Mean | 0.09 | 0.14 | 0.37 | 0.38 | 0.61 | 1.30 | 4.32 | 12.69 |

According to the climatological table of March the mean percentage of visibility values below 8000 meters is 12.69%, correspondingly, the mean percentage of 87.31% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.09% (See climatological table of March, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGKO MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 4.80 | 13.28 |
| 0100 | 0.33 | 0.33 | 0.67 | 0.67 | 0.67 | 1.00 | 4.00 | 16.67 |
| 0200 | - | 0.36 | 1.07 | 1.43 | 1.43 | 2.50 | 8.21 | 19.29 |
| 0300 | 0.67 | 1.68 | 2.36 | 2.36 | 2.69 | 4.04 | 9.09 | 19.19 |
| 0400 | 0.67 | 1.33 | 2.33 | 2.33 | 2.67 | 3.67 | 7.00 | 17.00 |
| 0500 | - | 0.33 | 1.34 | 1.34 | 1.34 | 2.68 | 4.68 | 12.71 |
| 0600 | - | - | - | - | - | - | 2.02 | 8.08 |
| 0700 | - | - | - | - | - | 0.34 | 1.35 | 6.76 |
| 0800 | - | - | - | - | - | 0.68 | 1.01 | 4.73 |
| 0900 | - | - | - | - | - | 0.34 | 1.01 | 4.38 |
| 1000 | - | - | - | - | - | - | 0.67 | 3.00 |
| 1100 | - | - | - | - | - | - | 1.36 | 3.40 |
| 1200 | - | - | - | - | - | 0.34 | 0.68 | 3.42 |
| 1300 | - | - | - | - | - | 0.33 | 1.00 | 4.01 |
| 1400 | - | - | - | - | - | - | 0.34 | 5.48 |
| 1500 | - | - | - | - | - | - | 1.00 | 4.68 |
| 1600 | - | - | - | - | - | 0.67 | 1.01 | 6.06 |
| 1700 | - | - | - | - | - | 0.35 | 1.39 | 7.67 |
| 1800 | - | - | - | - | - | 0.35 | 1.05 | 10.53 |
| 1900 | - | - | - | - | - | 0.68 | 2.71 | 10.17 |
| 2000 | - | - | - | - | - | 0.74 | 2.60 | 11.52 |
| 2100 | - | - | - | - | - | - | 3.24 | 11.87 |
| 2200 | - | - | - | - | - | 0.34 | 2.07 | 11.38 |
| 2300 | - | - | - | 0.37 | 0.37 | 1.11 | 3.69 | 12.55 |
| Mean | 0.09 | 0.18 | 0.34 | 0.37 | 0.40 | 0.86 | 2.75 | 9.49 |

According to the climatological table of April the mean percentage of visibility values below 8000 meters is 9.49%, correspondingly, the mean percentage of 90.51% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.09% (See climatological table of April, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGKO MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | 0.36 | 0.72 | 1.44 | 1.44 | 1.81 | 6.14 | 10.83 | 22.74 |
| 0100 | - | 0.33 | 0.65 | 0.98 | 1.95 | 3.58 | 9.77 | 21.17 |
| 0200 | 0.33 | 0.66 | 1.32 | 1.32 | 4.30 | 6.29 | 12.25 | 30.46 |
| 0300 | 0.65 | 0.65 | 1.63 | 1.63 | 2.29 | 4.90 | 11.44 | 24.84 |
| 0400 | - | 0.65 | 0.65 | 0.65 | 1.29 | 2.91 | 5.18 | 14.89 |
| 0500 | - | - | - | - | - | 0.97 | 2.26 | 9.35 |
| 0600 | - | - | - | - | - | 1.29 | 2.58 | 6.13 |
| 0700 | - | - | - | - | - | 0.96 | 1.93 | 4.18 |
| 0800 | - | - | - | - | - | - | 0.32 | 1.94 |
| 0900 | - | - | - | - | - | - | - | 2.27 |
| 1000 | - | - | - | - | - | 0.32 | 0.97 | 2.27 |
| 1100 | - | - | - | - | - | - | 0.65 | 2.92 |
| 1200 | - | - | - | - | - | - | 0.98 | 3.91 |
| 1300 | - | - | - | - | - | - | 0.97 | 3.55 |
| 1400 | - | - | - | - | - | - | 1.35 | 3.72 |
| 1500 | - | - | - | - | - | 0.33 | 1.66 | 3.64 |
| 1600 | - | - | - | - | - | 0.65 | 0.97 | 5.81 |
| 1700 | - | - | - | - | - | - | 0.67 | 4.71 |
| 1800 | - | - | - | - | - | - | - | 3.45 |
| 1900 | - | - | - | - | - | 0.33 | 1.63 | 6.54 |
| 2000 | - | - | - | - | - | 0.36 | 1.07 | 5.71 |
| 2100 | - | - | - | - | 0.35 | 1.05 | 3.86 | 10.88 |
| 2200 | - | - | - | - | - | 1.92 | 4.81 | 11.54 |
| 2300 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 3.52 | 8.45 | 16.90 |
| Mean | 0.11 | 0.18 | 0.30 | 0.31 | 0.56 | 1.48 | 3.52 | 9.31 |

According to the climatological table of May the mean percentage of visibility values below 8000 meters is 9.31%, correspondingly, the mean percentage of 90.69% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.11% (See climatological table of May, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL B**

AERODROME: UGKO MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | - | 0.72 | 5.05 |
| 0100 | - | - | - | - | - | 0.67 | 2.02 | 7.74 |
| 0200 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 1.03 | 3.79 | 6.21 |
| 0300 | - | - | 0.66 | 0.66 | 0.66 | 0.99 | 2.98 | 6.62 |
| 0400 | - | - | 0.33 | 0.33 | 0.33 | 0.99 | 1.97 | 3.29 |
| 0500 | - | - | - | - | - | 0.33 | 0.33 | 2.33 |
| 0600 | - | - | - | - | - | - | 0.67 | 1.33 |
| 0700 | - | - | - | - | - | - | 0.99 | 1.32 |
| 0800 | - | - | - | - | 0.34 | 0.67 | 1.01 | 2.02 |
| 0900 | - | - | - | - | - | - | - | 1.35 |
| 1000 | - | - | - | - | - | - | - | 0.67 |
| 1100 | - | - | - | - | - | - | - | 0.34 |
| 1200 | - | - | - | - | - | - | - | 0.34 |
| 1300 | - | - | - | - | - | - | 0.33 | 1.33 |
| 1400 | - | - | - | - | - | - | 0.34 | 1.69 |
| 1500 | - | - | - | - | - | - | 0.33 | 2.33 |
| 1600 | - | - | - | - | - | - | - | 2.33 |
| 1700 | - | - | - | - | - | - | 0.34 | 2.41 |
| 1800 | - | - | - | - | - | 0.35 | 0.35 | 3.47 |
| 1900 | - | - | - | - | - | - | - | 3.04 |
| 2000 | - | - | - | - | - | - | 0.36 | 2.17 |
| 2100 | - | - | - | - | - | - | 0.36 | 2.18 |
| 2200 | - | - | - | - | - | - | - | 2.98 |
| 2300 | - | - | - | - | - | - | 1.10 | 2.56 |
| Mean | 0.01 | 0.01 | 0.06 | 0.06 | 0.07 | 0.21 | 0.75 | 2.71 |

According to the climatological table of June the mean percentage of visibility values below 8000 meters is 2.71%, correspondingly, the mean percentage of 97.29% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.01% (See climatological table of June, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGKO MONTH: JULY PERIOD OF RECORD: 2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | 0.64 | 4.81 | 14.74 |
| 0100 | - | - | - | - | - | 0.96 | 7.72 | 18.01 |
| 0200 | - | - | - | - | 0.64 | 2.88 | 8.95 | 22.36 |
| 0300 | - | - | 0.32 | 0.32 | 0.32 | 1.29 | 7.10 | 16.77 |
| 0400 | - | - | - | - | - | - | 3.23 | 7.42 |
| 0500 | - | - | - | - | - | 0.65 | 2.58 | 4.84 |
| 0600 | - | - | - | - | - | 0.32 | 1.94 | 2.90 |
| 0700 | - | - | - | - | - | 0.32 | 0.97 | 2.58 |
| 0800 | - | 0.32 | 0.32 | 0.32 | 0.32 | 0.65 | 1.94 | 2.58 |
| 0900 | - | - | - | - | - | 0.32 | 0.97 | 2.26 |
| 1000 | - | - | - | - | - | - | 1.29 | 2.90 |
| 1100 | - | - | - | - | - | - | 0.96 | 2.57 |
| 1200 | - | - | - | - | - | 0.32 | 0.65 | 1.62 |
| 1300 | - | - | - | - | - | 0.97 | 1.29 | 1.94 |
| 1400 | - | - | - | - | - | - | - | 0.97 |
| 1500 | - | - | - | - | - | 0.32 | 1.28 | 2.24 |
| 1600 | - | - | - | - | - | 0.32 | 1.30 | 2.92 |
| 1700 | - | - | - | - | - | 0.33 | 2.28 | 3.58 |
| 1800 | - | - | - | - | - | 0.65 | 2.27 | 3.88 |
| 1900 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.65 | 2.92 | 6.17 |
| 2000 | - | - | - | - | - | 0.32 | 1.60 | 5.77 |
| 2100 | - | - | - | - | - | - | 1.93 | 8.04 |
| 2200 | - | - | - | - | - | 0.97 | 3.88 | 11.97 |
| 2300 | - | - | - | - | - | 0.97 | 4.19 | 10.32 |
| Mean | 0.01 | 0.03 | 0.04 | 0.04 | 0.07 | 0.58 | 2.75 | 6.64 |

According to the climatological table of July the mean percentage of visibility values below 8000 meters is 6.64%, correspondingly, the mean percentage of 93.36% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.01% (See climatological table of July, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGKO MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | 0.66 | 0.66 | 0.66 | 1.99 | 2.99 | 17.61 |
| 0100 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 2.31 | 7.26 | 19.47 |
| 0200 | 0.33 | 0.98 | 1.63 | 1.63 | 1.96 | 5.88 | 11.44 | 24.18 |
| 0300 | 0.98 | 1.63 | 3.26 | 3.58 | 5.21 | 7.82 | 10.75 | 24.10 |
| 0400 | - | 0.33 | 0.98 | 0.98 | 1.63 | 2.61 | 4.90 | 14.71 |
| 0500 | - | 0.32 | 0.32 | 0.32 | 0.64 | 0.96 | 1.60 | 5.77 |
| 0600 | - | - | - | - | - | 0.33 | 0.65 | 1.96 |
| 0700 | - | - | - | - | - | 0.65 | 0.98 | 1.96 |
| 0800 | - | - | - | - | - | - | 1.31 | 1.31 |
| 0900 | - | - | - | - | - | - | 0.32 | 1.29 |
| 1000 | - | - | - | - | - | 0.33 | 0.98 | 1.63 |
| 1100 | - | - | - | - | - | - | 0.65 | 1.30 |
| 1200 | - | - | - | - | - | - | 0.32 | 1.29 |
| 1300 | - | - | - | - | - | 0.32 | 1.29 | 1.61 |
| 1400 | - | - | - | - | - | - | 0.96 | 2.25 |
| 1500 | - | - | - | - | - | - | 0.98 | 1.63 |
| 1600 | - | - | - | - | - | - | 0.66 | 2.63 |
| 1700 | - | - | - | - | - | 0.66 | 0.98 | 4.26 |
| 1800 | - | - | - | - | - | - | 0.66 | 3.64 |
| 1900 | - | - | - | - | - | - | 1.00 | 4.65 |
| 2000 | - | - | - | - | - | 0.33 | 0.66 | 3.62 |
| 2100 | - | - | - | - | 0.33 | 0.33 | 2.98 | 7.28 |
| 2200 | - | - | 0.33 | 0.33 | 0.33 | 0.99 | 4.30 | 9.93 |
| 2300 | - | - | - | - | - | 1.31 | 4.26 | 13.11 |
| Mean | 0.07 | 0.15 | 0.31 | 0.33 | 0.46 | 1.12 | 2.62 | 7.13 |

According to the climatological table of August the mean percentage of visibility values below 8000 meters is 7.13%, correspondingly, the mean percentage of 92.87% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.07% (See climatological table of August, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGKO MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | 1.33 | 6.31 | 13.62 |
| 0100 | 0.65 | 0.97 | 0.97 | 0.97 | 0.97 | 2.92 | 7.47 | 13.31 |
| 0200 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 4.29 | 8.58 | 18.15 |
| 0300 | 1.00 | 1.34 | 2.01 | 2.34 | 3.01 | 4.35 | 8.70 | 19.40 |
| 0400 | 0.33 | 0.99 | 1.66 | 1.66 | 1.66 | 2.65 | 6.95 | 13.25 |
| 0500 | - | 0.33 | 0.33 | 0.33 | 0.33 | 1.64 | 3.95 | 6.91 |
| 0600 | - | - | - | - | - | 0.33 | 2.33 | 5.67 |
| 0700 | - | - | - | - | - | 0.67 | 2.68 | 3.01 |
| 0800 | - | - | - | - | - | - | 1.00 | 3.01 |
| 0900 | - | - | - | - | - | 0.33 | 1.00 | 3.00 |
| 1000 | - | - | - | - | - | - | 1.01 | 4.36 |
| 1100 | - | - | - | - | - | - | 0.67 | 3.02 |
| 1200 | - | - | - | - | - | - | 0.99 | 3.31 |
| 1300 | - | - | - | - | - | - | 1.00 | 2.68 |
| 1400 | - | - | - | - | - | 0.33 | 0.67 | 2.68 |
| 1500 | - | - | - | - | - | - | 2.35 | 5.70 |
| 1600 | - | - | - | - | - | 0.33 | 0.99 | 4.64 |
| 1700 | - | - | - | - | - | 0.33 | 2.34 | 5.02 |
| 1800 | - | - | - | - | - | 0.33 | 2.33 | 5.32 |
| 1900 | - | - | - | - | - | - | 1.99 | 5.32 |
| 2000 | - | - | - | - | - | - | 1.65 | 5.94 |
| 2100 | - | - | - | - | - | 0.33 | 2.34 | 9.70 |
| 2200 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.66 | 2.33 | 10.30 |
| 2300 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.66 | 3.29 | 10.86 |
| Mean | 0.18 | 0.25 | 0.30 | 0.32 | 0.34 | 0.90 | 3.04 | 7.42 |

According to the climatological table of September the mean percentage of visibility values below 8000 meters is 7.42%, correspondingly, the mean percentage of 92.58% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.18% (See climatological table of September, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGKO MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | 0.32 | 1.29 | 1.61 | 1.93 | 1.93 | 4.18 | 9.65 | 19.61 |
| 0100 | - | 0.96 | 1.60 | 1.92 | 2.24 | 3.19 | 6.71 | 19.17 |
| 0200 | 0.31 | 0.63 | 0.94 | 0.94 | 1.26 | 3.14 | 9.43 | 19.50 |
| 0300 | 0.64 | 0.96 | 0.96 | 0.96 | 1.29 | 4.18 | 9.32 | 17.68 |
| 0400 | 0.97 | 1.61 | 1.94 | 1.94 | 1.94 | 4.52 | 9.68 | 16.45 |
| 0500 | - | - | 1.29 | 1.61 | 1.61 | 2.25 | 4.18 | 11.90 |
| 0600 | - | - | 0.32 | 0.32 | 0.32 | 1.61 | 3.22 | 7.72 |
| 0700 | - | - | - | - | - | 0.97 | 2.59 | 7.44 |
| 0800 | - | - | - | - | - | 0.32 | 1.62 | 5.83 |
| 0900 | - | - | - | - | - | 0.64 | 1.29 | 5.14 |
| 1000 | - | - | - | - | - | - | 0.96 | 4.50 |
| 1100 | - | - | - | - | - | - | 2.58 | 5.81 |
| 1200 | - | - | - | - | - | 0.64 | 0.96 | 3.19 |
| 1300 | - | - | - | - | - | - | 2.27 | 4.22 |
| 1400 | - | - | - | - | - | 0.97 | 1.94 | 3.23 |
| 1500 | - | - | - | - | - | 1.29 | 2.90 | 5.81 |
| 1600 | - | - | - | - | - | 0.32 | 1.60 | 7.99 |
| 1700 | - | - | - | - | - | - | 2.58 | 7.10 |
| 1800 | - | - | - | - | - | 0.65 | 3.25 | 8.12 |
| 1900 | - | - | - | - | - | - | 3.87 | 12.26 |
| 2000 | - | - | - | - | - | 0.65 | 4.21 | 15.53 |
| 2100 | - | - | - | - | 0.32 | 1.28 | 5.13 | 14.10 |
| 2200 | - | 0.33 | 0.65 | 0.65 | 0.65 | 1.63 | 5.54 | 15.96 |
| 2300 | - | 0.32 | 0.64 | 0.96 | 1.28 | 3.85 | 8.01 | 15.38 |
| Mean | 0.09 | 0.25 | 0.41 | 0.47 | 0.53 | 1.51 | 4.31 | 10.57 |

According to the climatological table of October the mean percentage of visibility values below 8000 meters is 10.57%, correspondingly, the mean percentage of 89.43% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.09% (See climatological table of October, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGKO MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | 0.34 | 0.67 | 1.68 | 7.72 | 16.78 |
| 0100 | - | - | - | - | 0.65 | 2.29 | 7.84 | 16.67 |
| 0200 | - | - | - | - | - | 2.30 | 7.87 | 16.39 |
| 0300 | - | - | - | - | - | 2.98 | 7.62 | 17.22 |
| 0400 | - | - | 0.33 | 0.33 | 0.66 | 2.33 | 6.98 | 16.61 |
| 0500 | - | - | - | - | - | 0.99 | 3.64 | 12.25 |
| 0600 | - | - | - | - | - | 0.66 | 2.64 | 9.57 |
| 0700 | - | - | - | - | - | 0.33 | 2.97 | 8.25 |
| 0800 | - | - | - | - | - | 0.66 | 4.61 | 9.21 |
| 0900 | - | - | - | - | - | 1.34 | 4.68 | 7.69 |
| 1000 | - | - | - | - | - | 0.33 | 2.98 | 6.29 |
| 1100 | - | - | - | - | - | 0.66 | 3.32 | 5.65 |
| 1200 | - | - | - | - | - | 0.66 | 3.95 | 6.58 |
| 1300 | - | - | - | - | - | 0.66 | 3.31 | 7.28 |
| 1400 | - | - | - | - | - | 1.35 | 2.69 | 7.74 |
| 1500 | - | - | - | - | - | 0.33 | 2.99 | 8.64 |
| 1600 | - | - | - | - | - | 0.67 | 2.67 | 8.33 |
| 1700 | - | - | - | - | - | 1.66 | 4.30 | 8.94 |
| 1800 | - | - | - | - | - | 1.33 | 4.98 | 12.62 |
| 1900 | - | - | - | - | 0.33 | 1.00 | 5.35 | 12.71 |
| 2000 | - | - | - | - | - | 0.66 | 5.65 | 13.62 |
| 2100 | - | - | - | - | 0.33 | 2.01 | 6.35 | 14.72 |
| 2200 | - | - | 0.34 | 0.34 | 0.34 | 2.01 | 8.72 | 15.44 |
| 2300 | - | - | - | - | - | 2.33 | 7.64 | 14.62 |
| Mean | - | - | 0.03 | 0.04 | 0.12 | 1.30 | 5.06 | 11.41 |

According to the climatological table of November the mean percentage of visibility values below 8000 meters is 11.41%, correspondingly, the mean percentage of 88.59% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 600 meters is 0.03% (See climatological table of November, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL B**

AERODROME: UGKO MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

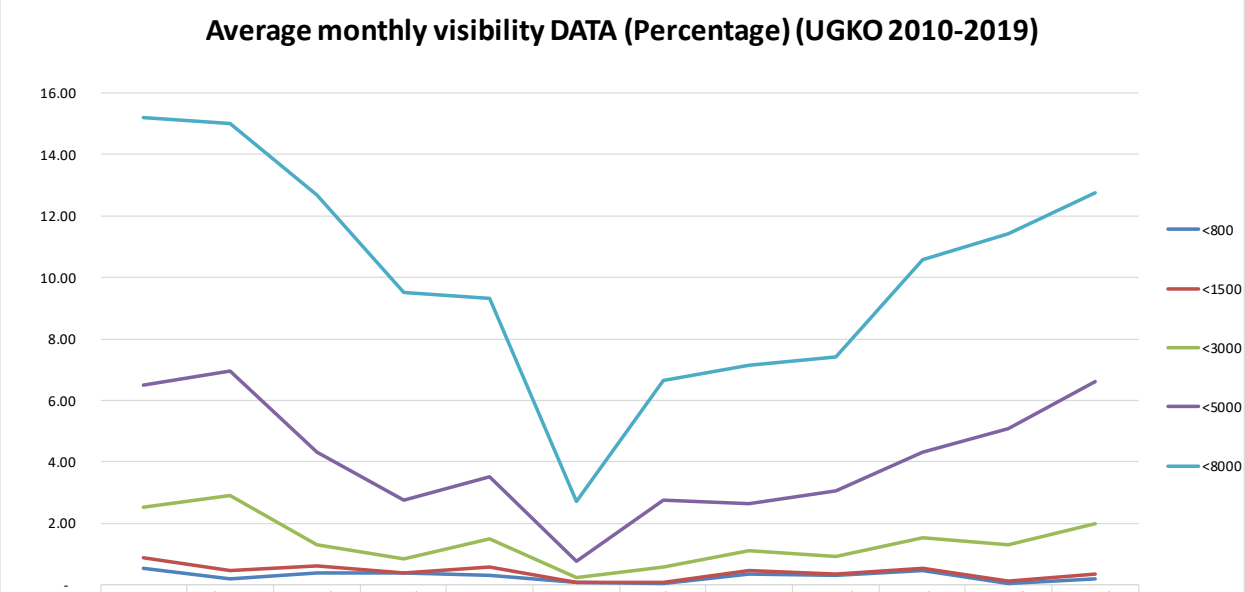
TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | 0.63 | 2.51 | 8.46 | 17.87 |
| 0100 | - | 0.31 | 0.31 | 0.31 | 0.94 | 3.13 | 7.81 | 16.88 |
| 0200 | - | 0.32 | 0.32 | 0.32 | 0.96 | 2.23 | 10.19 | 16.24 |
| 0300 | - | 0.32 | 0.32 | 0.32 | 0.32 | 2.24 | 7.35 | 13.10 |
| 0400 | - | 0.32 | 0.32 | 0.32 | 0.32 | 2.22 | 7.30 | 13.02 |
| 0500 | - | - | - | 0.32 | 0.63 | 1.90 | 6.35 | 14.29 |
| 0600 | - | - | - | - | 0.32 | 1.92 | 4.81 | 9.29 |
| 0700 | - | - | 0.32 | 0.32 | 0.32 | 1.59 | 4.76 | 10.48 |
| 0800 | - | - | - | 0.32 | 0.32 | 0.63 | 3.79 | 9.78 |
| 0900 | - | - | - | - | - | 0.96 | 3.50 | 7.96 |
| 1000 | - | - | - | - | - | 0.63 | 3.49 | 8.25 |
| 1100 | - | - | - | - | - | 0.95 | 3.48 | 8.23 |
| 1200 | - | - | - | - | - | 0.32 | 3.85 | 9.29 |
| 1300 | - | - | - | - | - | 0.32 | 4.13 | 7.94 |
| 1400 | - | - | - | - | - | 0.64 | 4.14 | 9.87 |
| 1500 | - | - | - | - | - | 1.27 | 5.70 | 11.39 |
| 1600 | - | - | - | - | 0.32 | 2.86 | 6.67 | 13.65 |
| 1700 | - | - | - | - | 0.32 | 1.90 | 6.01 | 14.24 |
| 1800 | - | - | - | 0.32 | 0.32 | 2.24 | 7.69 | 14.74 |
| 1900 | - | 0.32 | 0.32 | 0.32 | 0.32 | 2.87 | 8.28 | 14.65 |
| 2000 | - | - | 0.32 | 0.32 | 0.64 | 3.53 | 10.58 | 16.35 |
| 2100 | - | 0.32 | 0.32 | 0.32 | 0.32 | 2.87 | 10.19 | 16.24 |
| 2200 | - | - | 0.31 | 0.31 | 0.63 | 4.40 | 10.38 | 16.98 |
| 2300 | - | - | - | 0.32 | 0.64 | 3.54 | 9.65 | 15.76 |
| Mean | - | 0.08 | 0.12 | 0.17 | 0.34 | 1.99 | 6.61 | 12.77 |

According to the climatological table of December the mean percentage of visibility values below 8000 meters is 12.77%, correspondingly, the mean percentage of 87.23% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 400 meters is 0.08% (See climatological table of December, Model B).




| | January Mean % | Feburuary Mean % | March Mean % | April Mean % | May Mean % | June Mean % | July Mean % | August Mean % | September Mean % | October Mean % | November Mean % | December Mean % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <800 | 0.53 | 0.19 | 0.38 | 0.37 | 0.31 | 0.06 | 0.04 | 0.33 | 0.32 | 0.47 | 0.04 | 0.17 |
| <1500 | 0.89 | 0.45 | 0.61 | 0.40 | 0.56 | 0.07 | 0.07 | 0.46 | 0.34 | 0.53 | 0.12 | 0.34 |
| <3000 | 2.53 | 2.88 | 1.30 | 0.86 | 1.48 | 0.21 | 0.58 | 1.12 | 0.90 | 1.51 | 1.30 | 1.99 |
| <5000 | 6.48 | 6.94 | 4.32 | 2.75 | 3.52 | 0.75 | 2.75 | 2.62 | 3.04 | 4.31 | 5.06 | 6.61 |
| <8000 | 15.19 | 15.00 | 12.69 | 9.49 | 9.31 | 2.71 | 6.64 | 7.13 | 7.42 | 10.57 | 11.41 | 12.77 |

## AERONAUTICAL CLIMATOLOGY

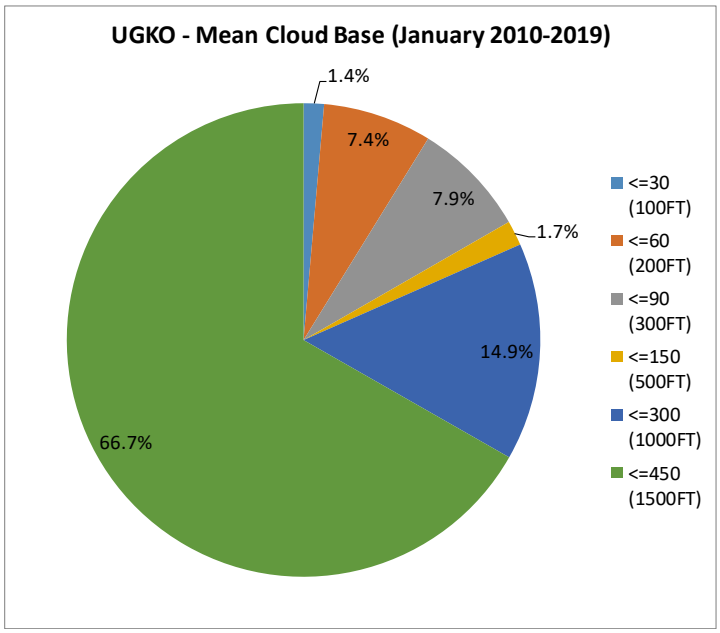
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGKO MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | 0.71 | 0.71 | 0.71 | 1.07 | 2.49 |
| 0100 | - | 0.32 | 0.97 | 0.97 | 1.61 | 2.58 |
| 0200 | 0.35 | 0.71 | 1.06 | 1.06 | 1.41 | 3.53 |
| 0300 | - | 0.67 | 1.00 | 1.00 | 1.00 | 2.33 |
| 0400 | - | - | - | 0.32 | 0.65 | 2.60 |
| 0500 | - | - | 0.32 | 0.32 | 0.65 | 1.29 |
| 0600 | 0.32 | 0.32 | 0.64 | 0.96 | 0.96 | 1.91 |
| 0700 | - | 0.32 | 0.65 | 0.65 | 0.65 | 0.65 |
| 0800 | - | 0.33 | 0.98 | 0.98 | 0.98 | 2.28 |
| 0900 | - | - | 0.32 | 0.32 | 1.29 | 2.90 |
| 1000 | - | 0.33 | 0.33 | 0.33 | 1.31 | 2.94 |
| 1100 | - | - | - | - | 0.97 | 3.90 |
| 1200 | - | - | - | - | 0.33 | 1.97 |
| 1300 | - | - | 0.33 | 0.33 | 0.65 | 1.95 |
| 1400 | - | 0.66 | 0.66 | 0.66 | 0.99 | 3.31 |
| 1500 | - | 0.34 | 0.67 | 0.67 | 0.67 | 3.03 |
| 1600 | - | - | - | - | - | 3.27 |
| 1700 | - | - | - | - | 0.71 | 2.84 |
| 1800 | - | - | - | 0.36 | 0.72 | 1.08 |
| 1900 | - | - | - | - | - | 1.99 |
| 2000 | - | - | - | - | 0.36 | 2.17 |
| 2100 | 0.36 | 0.36 | 0.36 | 0.36 | 0.71 | 2.14 |
| 2200 | - | - | 0.72 | 0.72 | 1.08 | 2.15 |
| 2300 | - | 0.35 | 0.35 | 0.35 | 1.06 | 3.90 |
| Mean | 0.04 | 0.23 | 0.42 | 0.46 | 0.83 | 2.47 |




In January, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 66.7%
2. >500FT and <= 1000FT – 14.9%
3. >300FT and <= 500FT –1.7%
4. >200FT and <= 300FT – 7.9%
5. >100FT and <= 200FT – 7.4%
6. <=100FT – 1.4%

In January, the mean percentage of cloud ceiling recorded above 1500 feet is 97.53% of the total amount of occurrences (See climatological table of January, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.04 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of January, Model C).

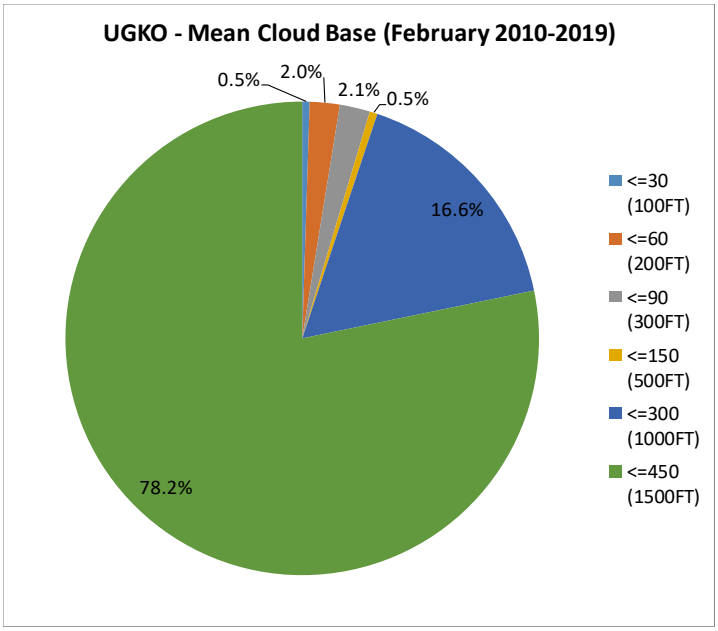
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGKO MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 6768 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | 0.39 | 3.15 |
| 0100 | - | 0.34 | 0.34 | 0.34 | 0.69 | 3.78 |
| 0200 | - | 0.36 | 0.73 | 0.73 | 2.18 | 4.36 |
| 0300 | - | 0.35 | 0.35 | 0.35 | 0.70 | 2.11 |
| 0400 | - | - | - | - | 0.70 | 2.46 |
| 0500 | - | 0.36 | 0.36 | 0.36 | 1.42 | 3.56 |
| 0600 | 0.35 | 0.35 | 0.70 | 0.70 | 1.41 | 3.17 |
| 0700 | - | - | - | - | - | 2.85 |
| 0800 | - | - | - | - | - | 1.05 |
| 0900 | - | - | - | - | - | 1.06 |
| 1000 | - | - | - | - | 0.35 | 1.06 |
| 1100 | - | - | - | - | 0.36 | 1.79 |
| 1200 | - | - | - | - | 0.71 | 3.53 |
| 1300 | - | - | - | - | 0.70 | 2.79 |
| 1400 | - | - | - | - | 0.71 | 2.86 |
| 1500 | - | - | - | - | 0.72 | 2.54 |
| 1600 | - | - | - | - | 0.35 | 2.47 |
| 1700 | - | - | - | - | 0.74 | 4.06 |
| 1800 | - | - | 0.36 | 0.36 | 0.72 | 3.26 |
| 1900 | - | - | 0.35 | 0.35 | 0.71 | 3.55 |
| 2000 | - | - | - | - | 0.38 | 3.46 |
| 2100 | - | - | - | - | - | 3.97 |
| 2200 | - | - | - | 0.37 | 0.75 | 2.99 |
| 2300 | - | - | - | - | 0.40 | 3.56 |
| Mean | 0.01 | 0.07 | 0.13 | 0.15 | 0.63 | 2.89 |




In February, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 78.2%
2. >500FT and <= 1000FT – 16.6%
3. >300FT and <= 500FT – 0.5%
4. >200FT and <= 300FT – 2.1%
5. >100FT and <= 200FT – 2.0%
6. <=100FT – 0.5%

In February, the mean percentage of cloud ceiling recorded above 1500 feet is 97.11% of the total amount of occurrences (See climatological table of February, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of February, Model C).

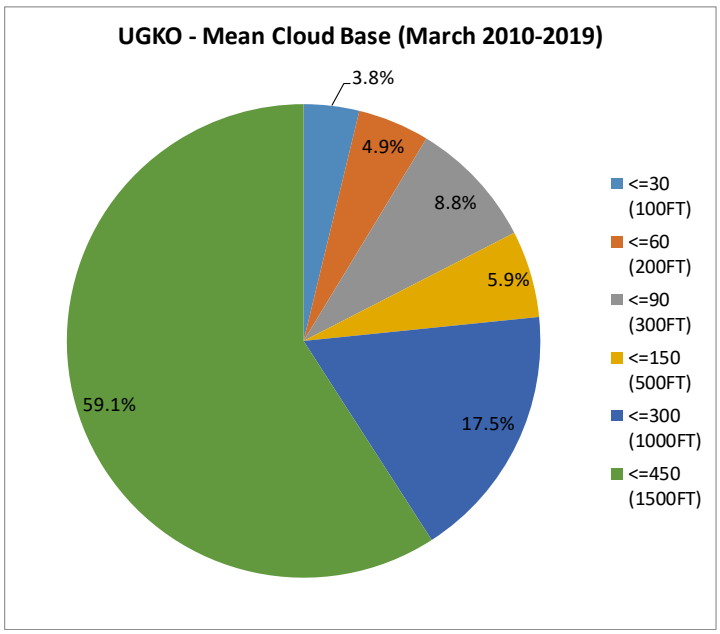
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGKO MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | 0.36 | 0.71 | 1.42 | 1.42 | 1.42 | 2.85 |
| 0100 | - | 0.32 | 0.96 | 0.96 | 1.59 | 2.87 |
| 0200 | - | 0.34 | 0.67 | 0.67 | 1.01 | 2.36 |
| 0300 | 0.32 | 0.65 | 0.65 | 0.97 | 1.29 | 2.90 |
| 0400 | - | 0.32 | 0.32 | 1.60 | 2.88 | 4.81 |
| 0500 | - | - | - | 0.65 | 1.29 | 3.23 |
| 0600 | 0.32 | 0.32 | 0.32 | 0.32 | 1.30 | 3.57 |
| 0700 | - | - | - | - | 0.32 | 1.62 |
| 0800 | - | - | - | - | 0.65 | 1.30 |
| 0900 | - | - | - | - | 0.32 | 1.61 |
| 1000 | - | - | - | - | 0.32 | 1.62 |
| 1100 | - | - | - | 0.33 | 0.65 | 1.31 |
| 1200 | - | - | - | 0.33 | 0.65 | 1.95 |
| 1300 | - | - | - | 0.33 | 0.98 | 1.64 |
| 1400 | - | - | 0.33 | 0.33 | 0.67 | 1.33 |
| 1500 | - | 0.33 | 0.33 | 0.33 | 0.66 | 1.66 |
| 1600 | - | - | 0.32 | 0.32 | 0.32 | 1.30 |
| 1700 | - | - | 0.34 | 0.34 | 0.34 | 2.03 |
| 1800 | - | - | 0.34 | 0.34 | 0.34 | 2.02 |
| 1900 | - | 0.32 | 0.32 | 0.32 | 0.32 | 1.61 |
| 2000 | - | - | 0.71 | 0.71 | 1.06 | 3.18 |
| 2100 | - | 0.36 | 0.71 | 0.71 | 0.71 | 1.42 |
| 2200 | 0.34 | 0.34 | 0.68 | 0.68 | 1.37 | 3.07 |
| 2300 | 0.72 | 0.72 | 1.08 | 1.08 | 1.81 | 3.25 |
| Mean | 0.09 | 0.20 | 0.40 | 0.53 | 0.93 | 2.27 |




In March, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 59.1%
2. >500FT and <= 1000FT – 17.5%
3. >300FT and <= 500FT – 5.9%
4. >200FT and <= 300FT – 8.8%
5. >100FT and <= 200FT – 4.9%
6. <=100FT – 3.8%

In March, the mean percentage of cloud ceiling recorded above 1500 feet is 97.73% of the total amount of occurrences (See climatological table of March, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.09 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of March, Model C).

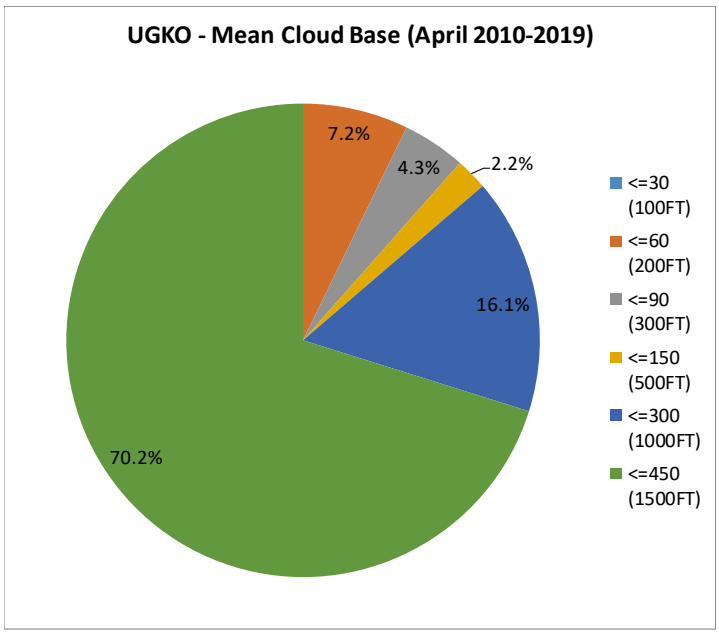
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGKO MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | 0.74 | 2.58 |
| 0100 | - | 0.33 | 0.33 | 0.33 | 0.33 | 1.33 |
| 0200 | - | 0.71 | 1.07 | 1.43 | 1.43 | 3.93 |
| 0300 | - | 1.01 | 2.02 | 2.02 | 2.69 | 4.04 |
| 0400 | - | 1.33 | 1.33 | 2.00 | 2.33 | 5.00 |
| 0500 | - | - | 0.67 | 0.67 | 1.00 | 2.68 |
| 0600 | - | - | - | - | 1.01 | 2.02 |
| 0700 | - | - | - | - | 0.34 | 2.03 |
| 0800 | - | - | - | - | 0.34 | 0.68 |
| 0900 | - | - | - | - | 0.34 | 1.01 |
| 1000 | - | - | - | - | 0.67 | 2.33 |
| 1100 | - | - | - | - | 0.34 | 2.04 |
| 1200 | - | - | - | - | - | 1.37 |
| 1300 | - | - | - | - | - | 1.34 |
| 1400 | - | - | - | - | - | 1.03 |
| 1500 | - | - | - | - | - | 1.34 |
| 1600 | - | - | - | - | 0.34 | 1.35 |
| 1700 | - | - | - | - | - | 1.05 |
| 1800 | - | - | - | - | - | 1.40 |
| 1900 | - | - | - | - | 0.34 | 2.37 |
| 2000 | - | - | - | - | 0.37 | 1.49 |
| 2100 | - | - | - | - | 0.36 | 1.80 |
| 2200 | - | - | - | - | 0.34 | 1.03 |
| 2300 | - | - | - | - | 0.74 | 1.85 |
| Mean | - | 0.14 | 0.23 | 0.27 | 0.59 | 1.96 |




In April, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 70.2%
2. >500FT and <= 1000FT – 16.1%
3. >300FT and <= 500FT – 2.2%
4. >200FT and <= 300FT – 4.3%
5. >100FT and <= 200FT – 7.2%
6. <=100FT – not observed

In April, the mean percentage of cloud ceiling recorded above 1500 feet is 98.04% of the total amount of occurrences (See climatological table of April, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.14 percent of minimum cloud height of 200 feet and below (cloud amount BKN and OVC) (see climatological table of April, Model C).

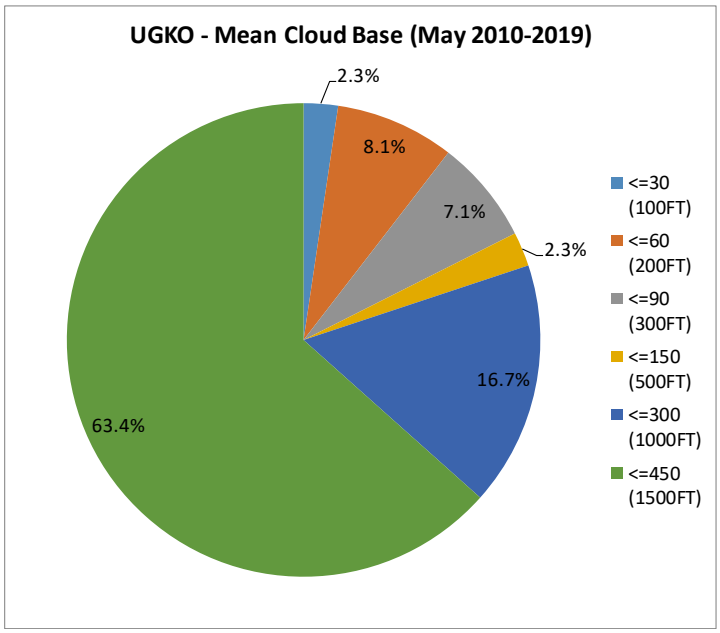
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGKO MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | 1.08 | 1.44 | 1.44 | 1.44 | 2.89 |
| 0100 | - | 0.65 | 1.30 | 1.30 | 2.28 | 2.93 |
| 0200 | - | 0.66 | 0.66 | 0.66 | 1.32 | 2.98 |
| 0300 | 0.65 | 0.98 | 1.96 | 2.29 | 3.27 | 4.25 |
| 0400 | - | 0.32 | 0.97 | 0.97 | 1.29 | 2.59 |
| 0500 | - | - | - | - | 0.97 | 2.58 |
| 0600 | - | - | 0.32 | 0.32 | 0.32 | 1.62 |
| 0700 | - | - | - | 0.32 | 0.32 | 0.97 |
| 0800 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 1.94 |
| 0900 | - | - | - | - | - | 1.29 |
| 1000 | - | - | - | - | - | 1.95 |
| 1100 | - | - | - | - | - | 0.97 |
| 1200 | - | - | - | - | 0.32 | 0.97 |
| 1300 | - | - | - | - | 0.32 | 0.97 |
| 1400 | - | - | - | - | - | 0.34 |
| 1500 | - | - | - | - | - | 1.00 |
| 1600 | - | - | - | 0.33 | 0.33 | 1.95 |
| 1700 | - | - | - | - | 0.34 | 1.01 |
| 1800 | - | - | - | - | - | 1.03 |
| 1900 | - | - | - | - | - | 0.98 |
| 2000 | - | - | - | - | 0.36 | 0.71 |
| 2100 | - | - | - | - | 1.05 | 2.46 |
| 2200 | - | - | - | - | 0.32 | 1.28 |
| 2300 | - | 0.35 | 0.35 | 0.35 | 0.70 | 2.11 |
| Mean | 0.04 | 0.18 | 0.31 | 0.35 | 0.64 | 1.74 |




In May, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 63.4%
2. >500FT and <= 1000FT – 16.7%
3. >300FT and <= 500FT – 2.3%
4. >200FT and <= 300FT – 7.1%
5. >100FT and <= 200FT – 8.1%
6. <=100FT – 2.3%

In May, the mean percentage of cloud ceiling recorded above 1500 feet is 98.26% of the total amount of occurrences (See climatological table of May, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.04 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of May, Model C).

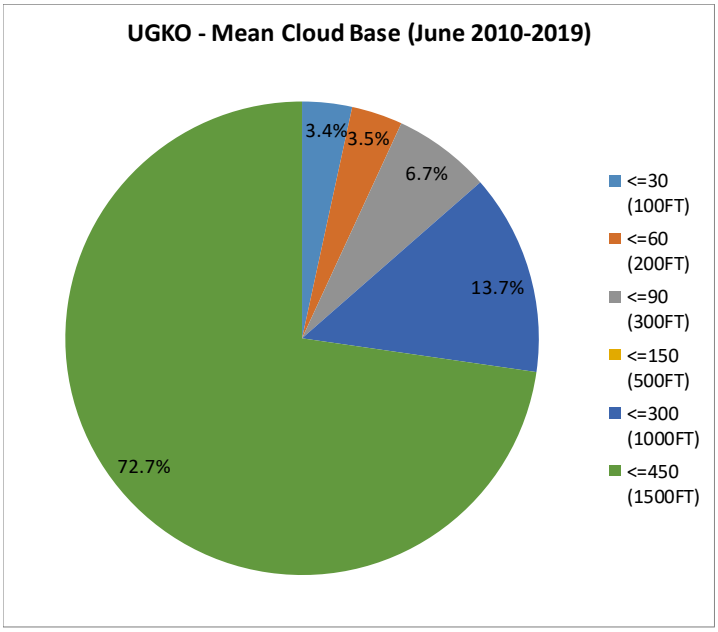
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGKO MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | - | 0.36 |
| 0100 | 0.34 | 0.34 | 0.34 | 0.34 | 0.67 | 0.67 |
| 0200 | - | 0.34 | 0.34 | 0.34 | 0.69 | 2.76 |
| 0300 | - | - | 0.33 | 0.33 | 0.33 | 0.99 |
| 0400 | - | - | 0.33 | 0.33 | 0.66 | 1.32 |
| 0500 | - | - | - | - | - | 0.33 |
| 0600 | - | - | - | - | - | - |
| 0700 | - | - | - | - | - | - |
| 0800 | - | - | - | - | - | - |
| 0900 | - | - | - | - | - | 0.34 |
| 1000 | - | - | - | - | - | - |
| 1100 | - | - | - | - | - | - |
| 1200 | - | - | - | - | - | - |
| 1300 | - | - | - | - | - | - |
| 1400 | - | - | - | - | - | - |
| 1500 | - | - | - | - | - | - |
| 1600 | - | - | - | - | - | 0.66 |
| 1700 | - | - | - | - | - | 0.34 |
| 1800 | - | - | - | - | 0.35 | 0.35 |
| 1900 | - | - | - | - | - | 0.34 |
| 2000 | - | - | - | - | - | - |
| 2100 | - | - | - | - | - | 0.36 |
| 2200 | - | - | - | - | - | 0.33 |
| 2300 | - | - | - | - | - | 0.73 |
| Mean | 0.01 | 0.03 | 0.06 | 0.06 | 0.11 | 0.41 |




In June, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 72.7%
2. >500FT and <= 1000FT – 13.7%
3. >300FT and <= 500FT – not observed
4. >200FT and <= 300FT – 6.7%
5. >100FT and <= 200FT – 3.5%
6. <=100FT – 3.4%

In June, the mean percentage of cloud ceiling recorded above 1500 feet is 99.59% of the total amount of occurrences (See climatological table of June, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of June, Model C).

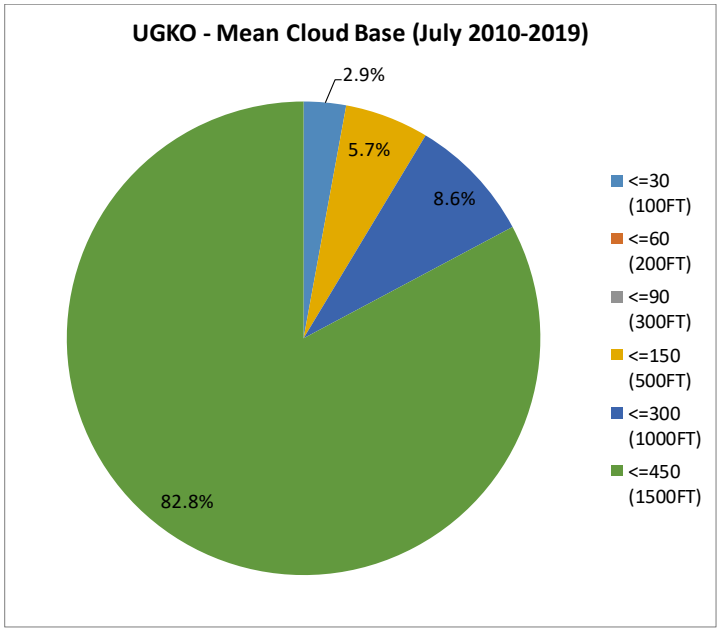
**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL C**

AERODROME: UGKO MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | - | 0.32 |
| 0100 | - | - | - | - | - | 0.96 |
| 0200 | - | - | - | - | - | 1.60 |
| 0300 | - | - | - | - | - | 0.32 |
| 0400 | - | - | - | - | 0.32 | 0.65 |
| 0500 | - | - | - | - | - | - |
| 0600 | - | - | - | - | - | 0.32 |
| 0700 | - | - | - | - | - | 0.97 |
| 0800 | - | - | - | - | - | 0.32 |
| 0900 | - | - | - | - | - | 0.32 |
| 1000 | - | - | - | - | - | 0.32 |
| 1100 | - | - | - | - | - | 0.64 |
| 1200 | - | - | - | - | - | - |
| 1300 | - | - | - | - | - | 0.32 |
| 1400 | - | - | - | - | - | - |
| 1500 | - | - | - | - | - | 0.32 |
| 1600 | - | - | - | - | - | 0.32 |
| 1700 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.65 |
| 1800 | - | - | - | - | - | 0.32 |
| 1900 | - | - | - | - | 0.32 | 0.32 |
| 2000 | - | - | - | - | - | - |
| 2100 | - | - | - | - | - | 0.32 |
| 2200 | - | - | - | 0.32 | 0.65 | 0.97 |
| 2300 | - | - | - | 0.32 | 0.32 | 0.97 |
| Mean | 0.01 | 0.01 | 0.01 | 0.04 | 0.08 | 0.47 |




In July, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 82.8%
2. >500FT and <= 1000FT – 8.6%
3. >300FT and <= 500FT – 5.7%
4. >200FT and <= 300FT – not observed
5. >100FT and <= 200FT – not observed
6. <=100FT – 2.9%

In July, the mean percentage of cloud ceiling recorded above 1500 feet is 99.53% of the total amount of occurrences (See climatological table of July, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of July, Model C).

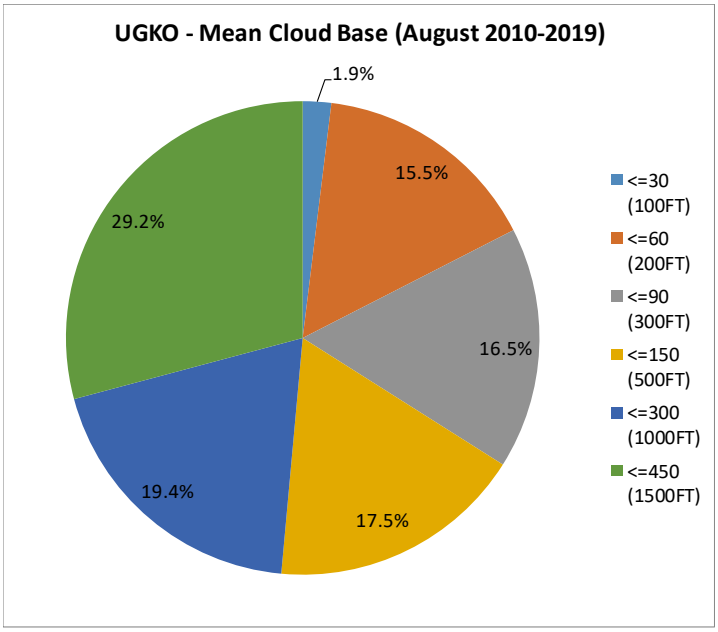
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGKO MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | - | - |
| 0100 | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.99 |
| 0200 | 0.33 | 0.65 | 0.65 | 0.65 | 0.65 | 1.63 |
| 0300 | 0.33 | 2.28 | 2.61 | 2.93 | 3.26 | 3.58 |
| 0400 | - | 1.31 | 1.31 | 1.31 | 1.31 | 1.96 |
| 0500 | - | 0.64 | 0.64 | 0.64 | 0.96 | 0.96 |
| 0600 | - | - | - | - | - | - |
| 0700 | - | - | - | - | - | - |
| 0800 | - | - | - | - | - | - |
| 0900 | - | - | - | - | - | - |
| 1000 | - | - | - | - | - | - |
| 1100 | - | - | - | - | - | - |
| 1200 | - | - | - | - | - | - |
| 1300 | - | - | - | - | - | - |
| 1400 | - | - | - | - | - | - |
| 1500 | - | - | - | - | - | - |
| 1600 | - | - | - | - | - | - |
| 1700 | - | - | - | - | - | 0.66 |
| 1800 | - | - | - | - | - | - |
| 1900 | - | - | - | - | - | - |
| 2000 | - | - | - | - | - | - |
| 2100 | - | - | - | - | - | - |
| 2200 | - | - | - | - | - | - |
| 2300 | - | - | - | - | - | - |
| Mean | 0.03 | 0.22 | 0.23 | 0.24 | 0.27 | 0.41 |




In August, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 29.2%
2. >500FT and <= 1000FT – 19.4%
3. >300FT and <= 500FT – 17.5%
4. >200FT and <= 300FT – 16.5%
5. >100FT and <= 200FT – 15.5%
6. <=100FT – 2.0%

In August, the mean percentage of cloud ceiling recorded above 1500 feet is 99.59% of the total amount of occurrences (See climatological table of August, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.03 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of August, Model C).

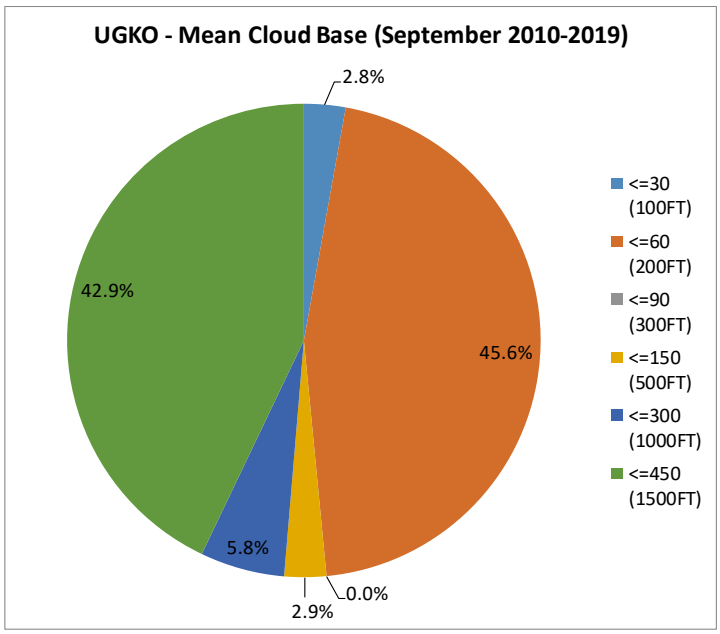
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGKO MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | - | 0.33 |
| 0100 | - | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 |
| 0200 | - | 1.65 | 1.65 | 1.65 | 1.65 | 1.98 |
| 0300 | - | 1.34 | 1.34 | 1.34 | 1.34 | 1.67 |
| 0400 | - | 0.99 | 0.99 | 0.99 | 0.99 | 1.32 |
| 0500 | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.99 |
| 0600 | - | - | - | - | 0.33 | 0.67 |
| 0700 | - | - | - | - | - | - |
| 0800 | - | - | - | - | - | - |
| 0900 | - | - | - | - | - | - |
| 1000 | - | - | - | - | 0.34 | 0.67 |
| 1100 | - | - | - | - | - | 0.34 |
| 1200 | - | - | - | - | - | 0.33 |
| 1300 | - | - | - | - | - | - |
| 1400 | - | - | - | - | - | - |
| 1500 | - | - | - | - | - | - |
| 1600 | - | - | - | - | - | 0.33 |
| 1700 | - | - | - | - | - | - |
| 1800 | - | - | - | - | - | 0.33 |
| 1900 | - | - | - | 0.33 | 0.33 | 0.66 |
| 2000 | - | - | - | - | - | - |
| 2100 | - | - | - | - | - | - |
| 2200 | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.66 |
| 2300 | 0.33 | 0.66 | 0.66 | 0.66 | 0.66 | 0.99 |
| Mean | 0.01 | 0.23 | 0.23 | 0.25 | 0.28 | 0.48 |




In September, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 42.9%
2. >500FT and <= 1000FT – 5.8%
3. >300FT and <= 500FT – 2.9%
4. >200FT and <= 300FT – not observed
5. >100FT and <= 200FT – 45.6%
6. <=100FT – 2.8%

In September, the mean percentage of cloud ceiling recorded above 1500 feet is 99.52% of the total amount of occurrences (See climatological table of September, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of September, Model C).

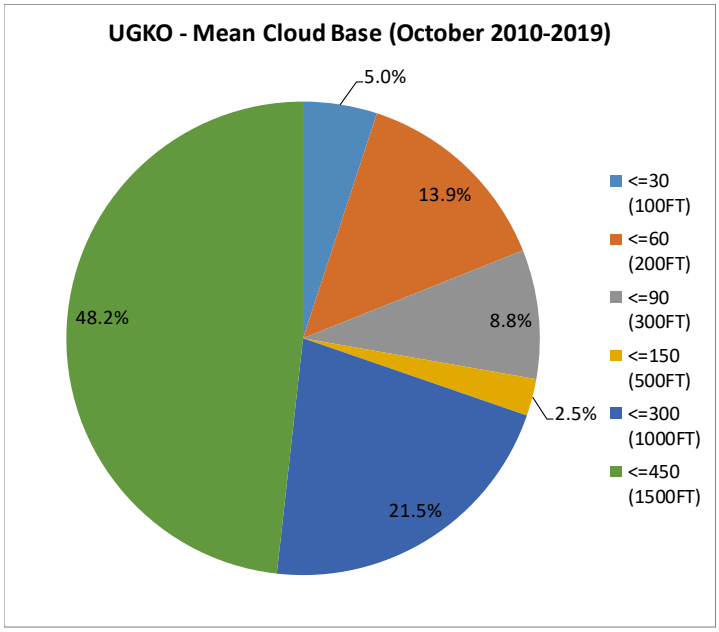
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGKO MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | 0.64 | 0.96 | 1.29 | 1.61 | 2.25 |
| 0100 | 0.32 | 0.64 | 1.28 | 1.28 | 1.92 | 1.92 |
| 0200 | - | 0.31 | 0.63 | 0.63 | 0.94 | 1.26 |
| 0300 | 0.32 | 0.64 | 0.96 | 0.96 | 1.29 | 1.93 |
| 0400 | 0.32 | 1.29 | 1.29 | 1.29 | 1.29 | 1.94 |
| 0500 | - | 0.32 | 0.96 | 1.29 | 1.29 | 1.93 |
| 0600 | - | - | - | - | 0.32 | 1.29 |
| 0700 | - | - | - | - | 0.32 | 0.97 |
| 0800 | - | - | - | - | - | 0.32 |
| 0900 | - | - | - | - | 0.32 | 0.96 |
| 1000 | - | - | - | - | 0.32 | 0.32 |
| 1100 | - | - | - | - | 0.32 | 0.97 |
| 1200 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.64 |
| 1300 | - | - | - | - | - | 0.32 |
| 1400 | - | - | - | - | - | 0.32 |
| 1500 | - | - | - | - | - | 0.32 |
| 1600 | - | - | - | - | 0.32 | 0.32 |
| 1700 | - | - | - | - | - | 0.65 |
| 1800 | - | - | - | - | - | 1.30 |
| 1900 | - | - | - | - | - | 0.32 |
| 2000 | - | - | - | - | 0.65 | 1.29 |
| 2100 | - | - | - | - | - | - |
| 2200 | - | 0.33 | 0.33 | 0.33 | 0.65 | 1.95 |
| 2300 | - | 0.32 | 0.32 | 0.32 | 1.28 | 1.92 |
| Mean | 0.05 | 0.20 | 0.29 | 0.32 | 0.55 | 1.06 |




In October, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 48.2%
2. >500 FT and <= 1000FT – 21.5%
3. >300FT and <= 500FT – 2.5%
4. >200FT and <= 300FT – 8.8%
5. >100FT and <= 200FT – 13.9%
6. <=100FT – 5.0%

In October, the mean percentage of cloud ceiling recorded above 1500 feet is 98.94% of the total amount of occurrences (See climatological table of October, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.05 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of October, Model C).

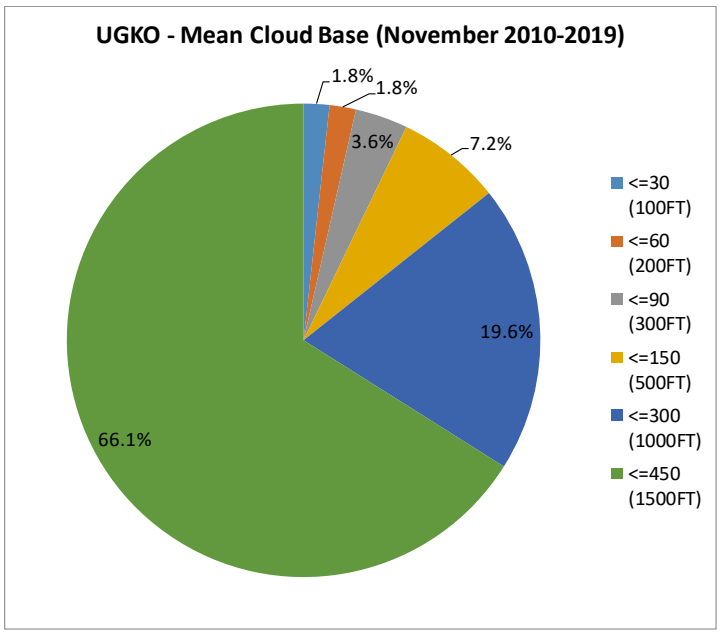
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGKO MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | 0.34 | 0.67 | 0.67 | 1.68 |
| 0100 | 0.33 | 0.33 | 0.33 | 0.33 | 0.98 | 1.63 |
| 0200 | - | - | - | 0.33 | 0.33 | 0.66 |
| 0300 | - | - | - | - | 0.66 | 1.32 |
| 0400 | - | - | - | - | - | 0.66 |
| 0500 | - | - | - | - | - | 0.33 |
| 0600 | - | - | - | - | - | 0.33 |
| 0700 | - | - | - | - | - | 1.98 |
| 0800 | - | - | - | - | 0.33 | 0.33 |
| 0900 | - | - | - | - | - | 0.67 |
| 1000 | - | - | - | - | 0.33 | 0.99 |
| 1100 | - | - | - | - | - | 0.33 |
| 1200 | - | - | - | - | - | 0.33 |
| 1300 | - | - | 0.33 | 0.33 | 0.33 | 0.33 |
| 1400 | - | - | - | 0.34 | 0.34 | 0.34 |
| 1500 | - | - | - | 0.33 | 0.33 | 0.33 |
| 1600 | - | - | - | - | - | - |
| 1700 | - | - | - | - | 0.33 | 0.66 |
| 1800 | - | - | - | - | - | 0.33 |
| 1900 | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.67 |
| 2000 | - | - | - | - | - | 1.00 |
| 2100 | - | - | - | - | 0.33 | 1.33 |
| 2200 | - | - | - | - | 1.01 | 1.01 |
| 2300 | - | - | - | - | - | 1.33 |
| Mean | 0.01 | 0.03 | 0.06 | 0.11 | 0.26 | 0.77 |




In November, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 66.1%
2. >500 FT and <= 1000FT – 19.6%
3. >300FT and <= 500FT – 7.2%
4. >200FT and <= 300FT – 3.6%
5. >100FT and <= 200FT – 1.8%
6. <=100FT – 1.8%

In November, the mean percentage of cloud ceiling recorded above 1500 feet is 99.23% of the total amount of occurrences (See climatological table of November, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of November, Model C).

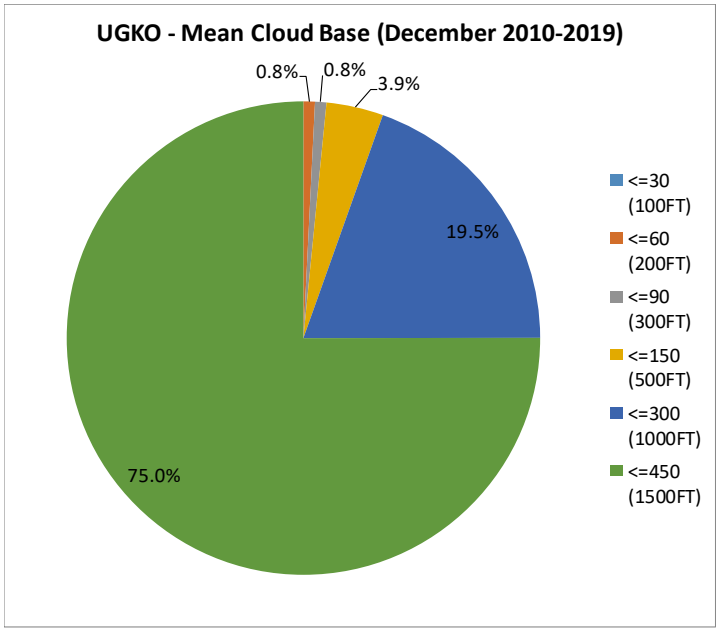
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGKO MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | 0.31 | 0.31 | 1.88 |
| 0100 | - | - | - | 0.31 | 1.25 | 2.81 |
| 0200 | - | 0.32 | 0.32 | 0.32 | 0.64 | 0.96 |
| 0300 | - | - | - | - | 0.64 | 1.92 |
| 0400 | - | - | - | - | 1.27 | 1.27 |
| 0500 | - | - | - | 0.32 | 0.95 | 2.22 |
| 0600 | - | - | - | - | - | 1.60 |
| 0700 | - | - | - | - | 0.63 | 1.59 |
| 0800 | - | - | - | - | 0.32 | 1.58 |
| 0900 | - | - | - | - | - | 1.27 |
| 1000 | - | - | - | - | - | 0.63 |
| 1100 | - | - | - | - | - | 1.27 |
| 1200 | - | - | - | - | - | 1.60 |
| 1300 | - | - | - | - | 0.32 | 1.59 |
| 1400 | - | - | - | - | 0.32 | 2.55 |
| 1500 | - | - | - | - | - | 1.90 |
| 1600 | - | - | - | - | - | 2.54 |
| 1700 | - | - | - | - | 0.32 | 1.58 |
| 1800 | - | - | - | - | 0.64 | 1.60 |
| 1900 | - | - | - | - | 0.64 | 1.59 |
| 2000 | - | - | - | - | 0.96 | 2.24 |
| 2100 | - | - | - | 0.32 | 0.32 | 1.59 |
| 2200 | - | - | 0.31 | 0.31 | 0.31 | 0.94 |
| 2300 | - | - | - | 0.32 | 0.32 | 1.93 |
| Mean | - | 0.01 | 0.03 | 0.09 | 0.42 | 1.69 |




In December, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 75.0%
2. >500 FT and <= 1000FT – 19.5%
3. >300FT and <= 500FT – 3.9%
4. >200FT and <= 300FT – 0.8%
5. >100FT and <= 200FT – 0.8%
6. <=100FT – not observed

In December, the mean percentage of cloud ceiling recorded above 1500 feet is 98.31% of the total amount of occurrences (See climatological table of December, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 200 feet and below (cloud amount BKN and OVC) (see climatological table of December, Model C).

## AERONAUTICAL CLIMATOLOGY

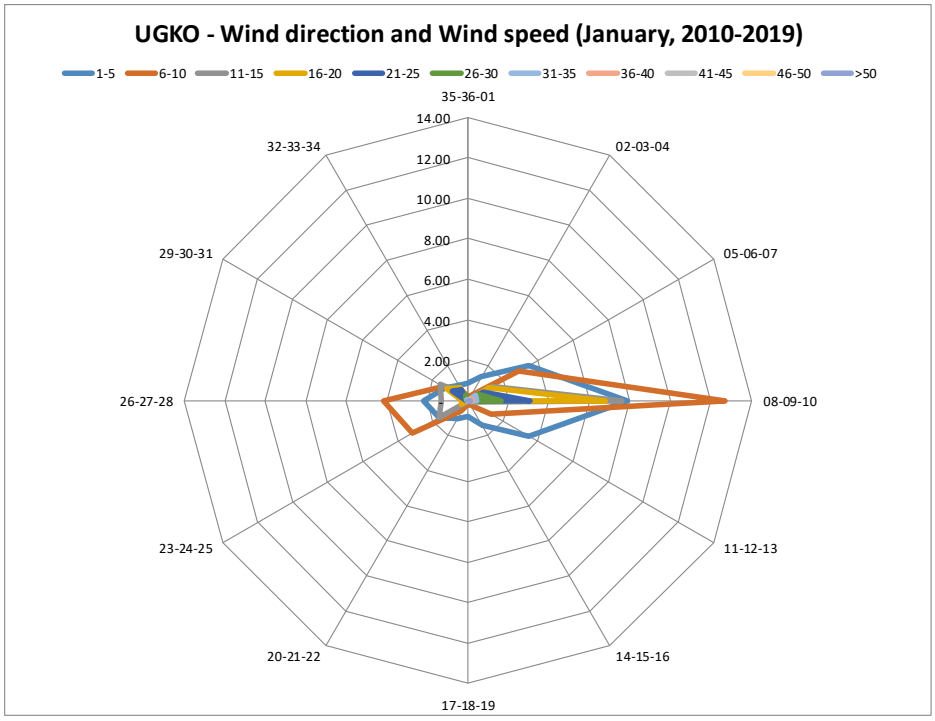
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 4.80 |
| VARIABLE | 6.23 | 0.14 | - | - | - | - | - | - | - | - | - | 6.37 |
| 35-36-01 | 0.83 | 0.18 | 0.02 | - | - | - | - | - | - | - | - | 1.03 |
| 02-03-04 | 1.35 | 0.31 | - | - | - | - | - | - | - | - | - | 1.67 |
| 05-06-07 | 3.46 | 2.87 | 1.37 | 1.22 | 0.87 | 0.59 | 0.46 | 0.21 | 0.07 | - | 0.01 | 11.14 |
| 08-09-10 | 7.87 | 12.70 | 7.59 | 6.78 | 3.06 | 1.64 | 0.43 | 0.24 | 0.11 | 0.07 | 0.08 | 40.58 |
| 11-12-13 | 3.50 | 1.33 | 0.17 | 0.03 | 0.02 | - | - | - | - | - | - | 5.05 |
| 14-15-16 | 1.42 | 0.28 | 0.01 | - | 0.01 | - | - | - | - | - | - | 1.72 |
| 17-18-19 | 0.78 | 0.21 | 0.03 | - | - | - | - | - | - | - | - | 1.02 |
| 20-21-22 | 1.01 | 0.62 | 0.11 | 0.03 | - | - | - | - | - | - | - | 1.76 |
| 23-24-25 | 1.65 | 3.18 | 1.66 | 0.39 | 0.02 | - | - | - | - | - | - | 6.91 |
| 26-27-28 | 2.17 | 4.15 | 1.34 | 0.27 | 0.07 | - | - | - | - | - | - | 8.00 |
| 29-30-31 | 1.28 | 1.40 | 1.57 | 1.17 | 0.91 | 0.14 | 0.05 | - | - | - | - | 6.52 |
| 32-33-34 | 0.86 | 0.57 | 0.37 | 0.72 | 0.62 | 0.26 | 0.04 | - | - | - | - | 3.44 |
| TOTAL | 32.42 | 27.94 | 14.23 | 10.63 | 5.57 | 2.63 | 0.98 | 0.45 | 0.18 | 0.07 | 0.09 | 100 |




**CALM**
4.80%

**VARIABLE**
6.37%

The prevailing wind directions of 080º-100º frequency of occurrence is 40.58%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 60.36%).

The maximum wind of >50 knots is observed within the 080º-100º sector (frequency of occurrence 0.09%).

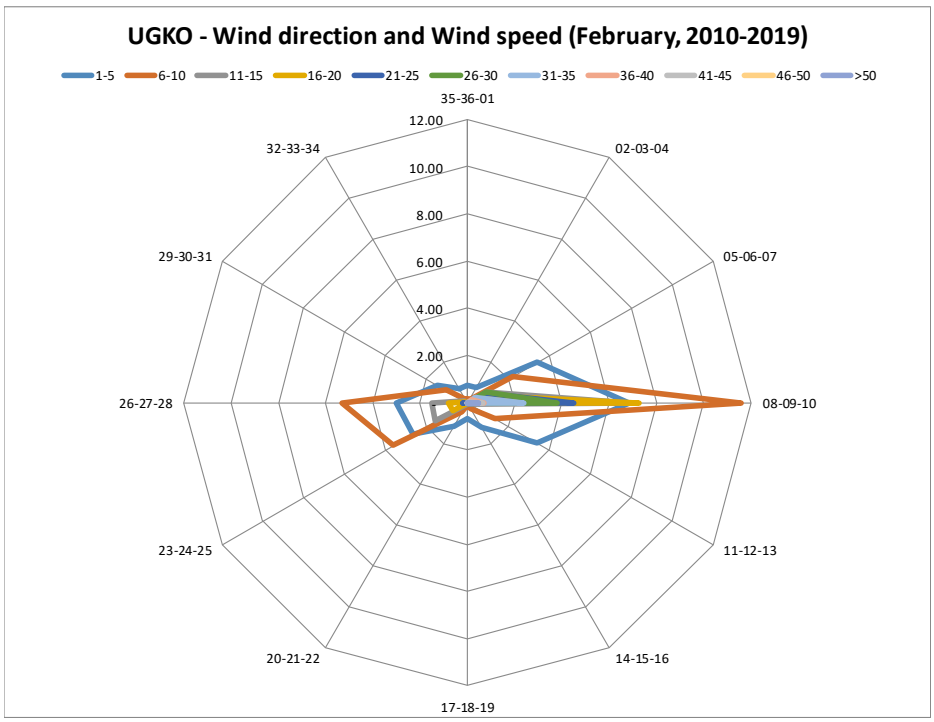
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12192 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 3.47 |
| VARIABLE | 7.47 | 0.31 | - | 0.02 | - | - | - | - | - | - | - | 7.80 |
| 35-36-01 | 0.73 | 0.16 | - | - | - | - | - | - | - | - | - | 0.89 |
| 02-03-04 | 0.75 | 0.15 | - | - | - | - | - | - | - | - | - | 0.90 |
| 05-06-07 | 3.40 | 2.24 | 0.90 | 0.62 | 0.85 | 0.92 | 0.40 | 0.23 | 0.09 | - | - | 9.66 |
| 08-09-10 | 6.86 | 11.57 | 6.94 | 7.25 | 4.51 | 3.79 | 2.38 | 0.70 | 0.66 | 0.26 | 0.47 | 45.40 |
| 11-12-13 | 3.40 | 1.34 | 0.09 | 0.02 | - | - | - | - | - | - | - | 4.84 |
| 14-15-16 | 1.22 | 0.29 | - | 0.03 | - | - | - | - | - | - | - | 1.55 |
| 17-18-19 | 0.68 | 0.11 | - | - | - | - | - | - | - | - | - | 0.79 |
| 20-21-22 | 1.15 | 0.47 | 0.05 | 0.01 | - | - | - | - | - | - | - | 1.68 |
| 23-24-25 | 2.65 | 3.62 | 1.56 | 0.72 | 0.03 | - | - | - | - | - | - | 8.58 |
| 26-27-28 | 3.01 | 5.31 | 1.50 | 0.82 | 0.21 | - | - | - | - | - | - | 10.86 |
| 29-30-31 | 1.47 | 1.04 | 0.16 | 0.10 | - | - | - | - | - | - | - | 2.78 |
| 32-33-34 | 0.66 | 0.13 | - | - | - | - | - | - | - | - | - | 0.79 |
| TOTAL | 33.46 | 26.76 | 11.21 | 9.59 | 5.60 | 4.71 | 2.78 | 0.93 | 0.76 | 0.26 | 0.47 | 100 |




**CALM**
3.47%

**VARIABLE**
7.80%

The prevailing wind directions of 080º-100º frequency of occurrence is 45.40%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 60.22%).

The maximum wind of >50 knots is observed within the 080º-100º sector (frequency of occurrence 0.47%).

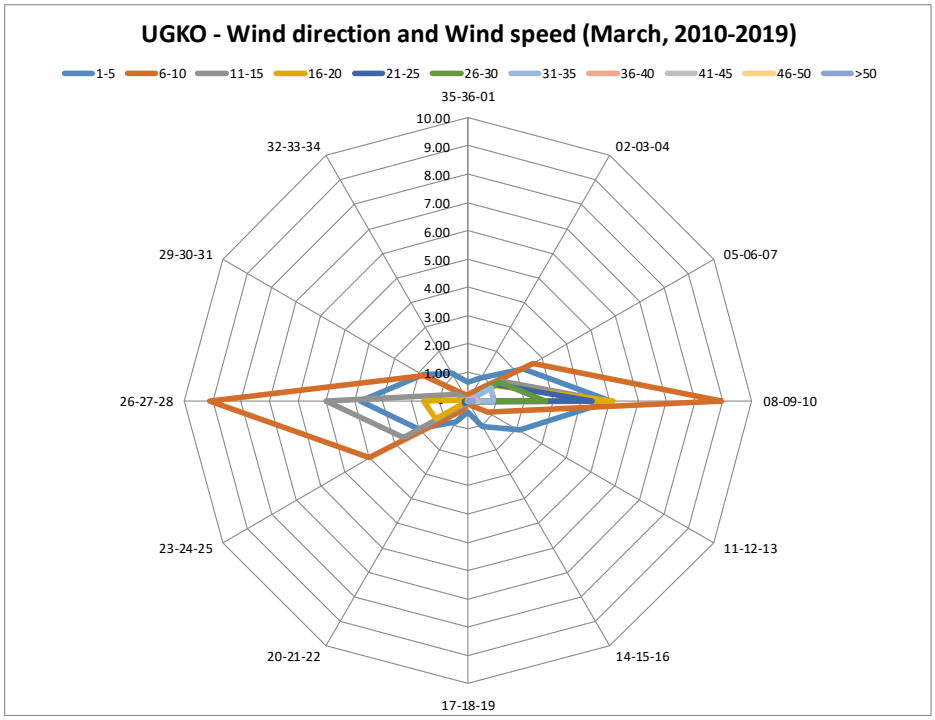
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 3.54 |
| VARIABLE | 8.22 | 0.58 | 0.04 | - | - | - | - | - | - | - | - | 8.84 |
| 35-36-01 | 0.63 | 0.17 | - | 0.01 | - | - | - | - | - | - | - | 0.81 |
| 02-03-04 | 0.92 | 0.34 | 0.02 | - | - | - | - | - | - | - | - | 1.28 |
| 05-06-07 | 2.24 | 2.66 | 1.35 | 1.08 | 1.13 | 1.27 | 0.93 | 0.24 | 0.03 | - | - | 10.94 |
| 08-09-10 | 5.04 | 8.96 | 4.93 | 5.11 | 4.39 | 2.73 | 0.90 | 0.34 | 0.36 | 0.21 | 0.21 | 33.17 |
| 11-12-13 | 2.10 | 0.81 | 0.07 | 0.06 | - | - | - | - | - | - | - | 3.04 |
| 14-15-16 | 1.04 | 0.21 | 0.01 | - | - | - | - | - | - | - | - | 1.26 |
| 17-18-19 | 0.39 | 0.07 | - | - | - | - | - | - | - | - | - | 0.46 |
| 20-21-22 | 0.86 | 0.36 | 0.10 | 0.02 | - | - | - | - | - | - | - | 1.35 |
| 23-24-25 | 2.02 | 4.02 | 2.64 | 1.30 | 0.15 | 0.04 | - | - | - | - | - | 10.16 |
| 26-27-28 | 3.79 | 9.12 | 5.00 | 1.57 | 0.11 | 0.02 | - | - | - | - | - | 19.62 |
| 29-30-31 | 1.83 | 1.80 | 0.47 | 0.03 | - | - | - | - | - | - | - | 4.12 |
| 32-33-34 | 1.13 | 0.25 | 0.04 | 0.01 | - | - | - | - | - | - | - | 1.42 |
| TOTAL | 30.21 | 29.33 | 14.67 | 9.20 | 5.78 | 4.05 | 1.84 | 0.58 | 0.39 | 0.21 | 0.21 | 100 |




**CALM**
3.54%

**VARIABLE**
8.84%

The prevailing wind directions of 080º-100º frequency of occurrence is 33.17%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 59.54%).

The maximum wind of >50 knots is observed within the 080º-100º sector (frequency of occurrence 0.21%).

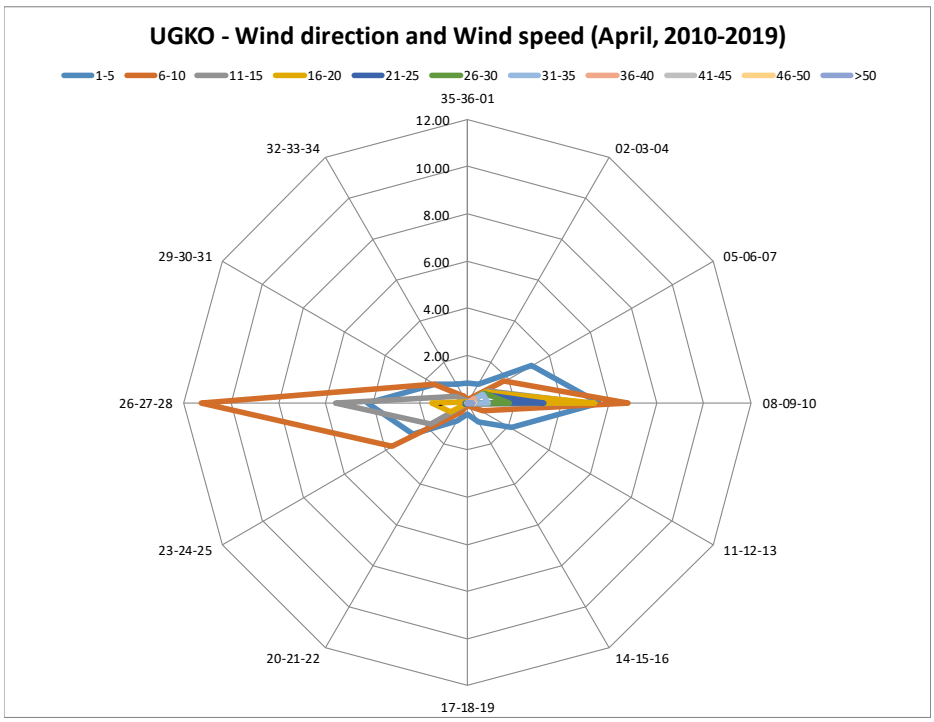
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 3.75 |
| VARIABLE | 11.41 | 0.60 | 0.01 | 0.01 | - | - | - | - | - | - | - | 12.03 |
| 35-36-01 | 0.83 | 0.12 | 0.02 | - | - | - | - | - | - | - | - | 0.97 |
| 02-03-04 | 0.92 | 0.17 | 0.02 | - | - | - | - | - | - | - | - | 1.12 |
| 05-06-07 | 3.14 | 1.80 | 1.04 | 0.88 | 0.76 | 0.79 | 0.73 | 0.31 | 0.01 | - | - | 9.47 |
| 08-09-10 | 5.58 | 6.81 | 5.06 | 5.38 | 3.25 | 1.77 | 0.89 | 0.29 | 0.12 | 0.27 | 0.24 | 29.68 |
| 11-12-13 | 2.14 | 0.73 | 0.12 | 0.04 | - | - | - | - | - | - | - | 3.03 |
| 14-15-16 | 0.93 | 0.17 | 0.02 | 0.02 | - | - | - | - | - | - | - | 1.14 |
| 17-18-19 | 0.47 | 0.08 | 0.02 | - | - | - | - | - | - | - | - | 0.57 |
| 20-21-22 | 0.87 | 0.43 | 0.07 | 0.01 | - | - | - | - | - | - | - | 1.39 |
| 23-24-25 | 2.64 | 3.68 | 1.79 | 0.83 | 0.10 | 0.03 | - | - | - | - | - | 9.07 |
| 26-27-28 | 4.21 | 11.28 | 5.58 | 1.52 | 0.11 | 0.04 | - | - | - | - | - | 22.73 |
| 29-30-31 | 1.57 | 1.61 | 0.52 | 0.04 | - | - | - | - | - | - | - | 3.74 |
| 32-33-34 | 0.91 | 0.33 | 0.07 | 0.01 | - | - | - | - | - | - | - | 1.31 |
| TOTAL | 35.63 | 27.81 | 14.35 | 8.73 | 4.22 | 2.63 | 1.62 | 0.60 | 0.13 | 0.27 | 0.24 | 100 |




**CALM**
3.75%

**VARIABLE**
12.03%

The prevailing wind directions of 080º-100º frequency of occurrence is 29.68%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 63.44%).

The maximum wind of >50 knots is observed within the 080º-100º sector (frequency of occurrence 0.24%).

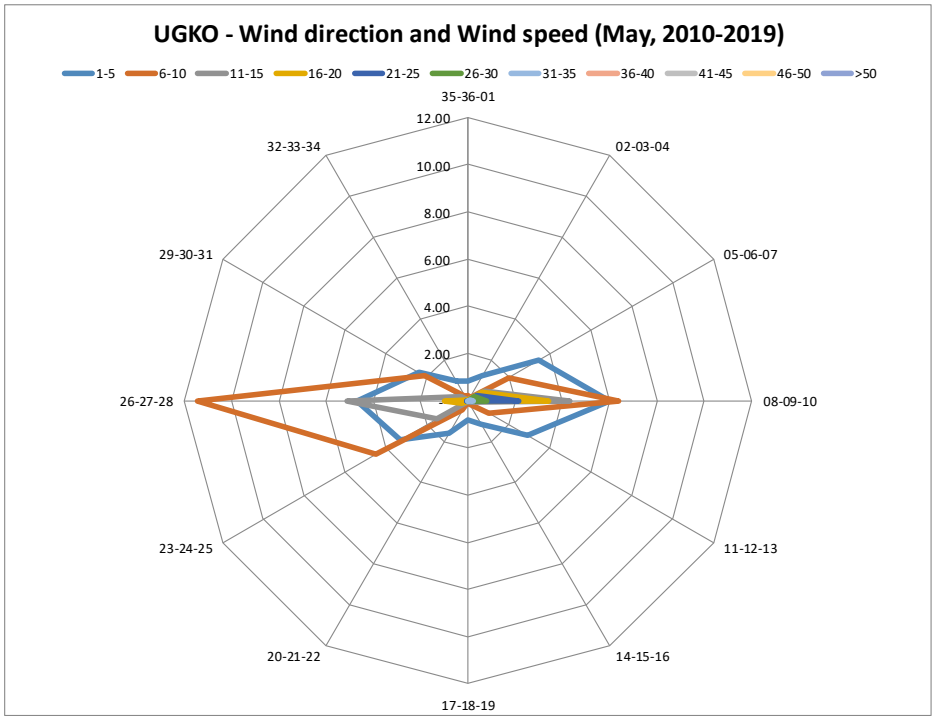
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 5.02 |
| VARIABLE | 14.28 | 0.57 | 0.02 | 0.01 | - | - | - | - | - | - | - | 14.88 |
| 35-36-01 | 0.83 | 0.20 | 0.01 | - | - | - | - | - | - | - | - | 1.03 |
| 02-03-04 | 1.25 | 0.16 | 0.02 | 0.01 | - | - | - | - | - | - | - | 1.44 |
| 05-06-07 | 3.45 | 1.98 | 0.81 | 0.68 | 0.43 | 0.35 | 0.09 | - | - | - | - | 7.79 |
| 08-09-10 | 5.98 | 6.39 | 4.30 | 3.42 | 2.14 | 0.78 | 0.21 | 0.02 | - | - | - | 23.23 |
| 11-12-13 | 2.90 | 1.04 | 0.11 | 0.04 | - | - | - | - | - | - | - | 4.09 |
| 14-15-16 | 1.15 | 0.17 | 0.01 | - | - | - | - | - | - | - | - | 1.33 |
| 17-18-19 | 0.81 | 0.09 | - | - | - | - | - | - | - | - | - | 0.90 |
| 20-21-22 | 1.61 | 0.46 | 0.06 | 0.02 | - | - | - | - | - | - | - | 2.15 |
| 23-24-25 | 3.29 | 4.50 | 1.55 | 0.27 | 0.07 | 0.02 | - | - | - | - | - | 9.69 |
| 26-27-28 | 4.72 | 11.43 | 5.10 | 1.00 | 0.07 | 0.01 | - | - | - | - | - | 22.33 |
| 29-30-31 | 2.41 | 2.11 | 0.35 | 0.06 | - | - | - | - | - | - | - | 4.93 |
| 32-33-34 | 0.97 | 0.21 | 0.02 | - | - | - | - | - | - | - | - | 1.19 |
| TOTAL | 43.64 | 29.30 | 12.35 | 5.50 | 2.71 | 1.15 | 0.31 | 0.02 | - | - | - | 100 |




**CALM**
5.02%

**VARIABLE**
14.88%

The prevailing wind directions of 260º-280º frequency of occurrence is 22.33% and that of 080º-100º directions frequency of occurrence is 23.23%..

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 72.94%).

The maximum wind of 36-40 knots is observed within the 080º-100º sector (frequency of occurrence 0.02%).

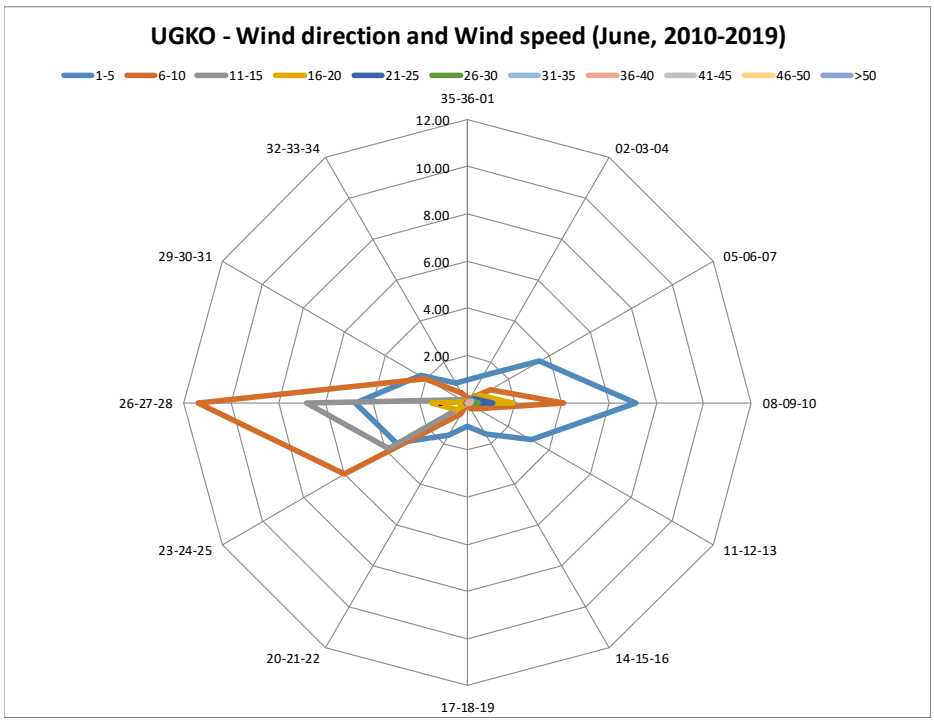
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 5.16 |
| VARIABLE | 14.82 | 0.58 | 0.03 | 0.01 | - | - | - | - | - | - | - | 15.45 |
| 35-36-01 | 0.98 | 0.24 | 0.01 | 0.01 | - | - | - | - | - | - | - | 1.23 |
| 02-03-04 | 1.36 | 0.18 | 0.02 | 0.01 | - | - | - | - | - | - | - | 1.56 |
| 05-06-07 | 3.50 | 1.13 | 0.33 | 0.62 | 0.34 | 0.19 | 0.19 | 0.03 | - | - | - | 6.33 |
| 08-09-10 | 7.14 | 4.08 | 1.97 | 1.92 | 1.09 | 0.45 | 0.14 | 0.11 | - | - | - | 16.89 |
| 11-12-13 | 3.13 | 0.54 | 0.06 | - | - | - | - | - | - | - | - | 3.73 |
| 14-15-16 | 1.54 | 0.27 | - | 0.02 | - | - | - | - | - | - | - | 1.83 |
| 17-18-19 | 0.98 | 0.08 | 0.02 | - | - | - | - | - | - | - | - | 1.08 |
| 20-21-22 | 1.57 | 0.55 | 0.10 | - | - | - | - | - | - | - | - | 2.22 |
| 23-24-25 | 3.45 | 6.01 | 3.85 | 0.57 | 0.03 | - | - | - | - | - | - | 13.91 |
| 26-27-28 | 4.75 | 11.41 | 6.81 | 1.52 | 0.07 | 0.02 | - | - | - | - | - | 24.57 |
| 29-30-31 | 2.31 | 2.07 | 0.21 | 0.03 | - | - | - | - | - | - | - | 4.62 |
| 32-33-34 | 0.93 | 0.47 | 0.02 | - | - | - | - | - | - | - | - | 1.42 |
| TOTAL | 46.46 | 27.60 | 13.43 | 4.69 | 1.53 | 0.66 | 0.33 | 0.14 | - | - | - | 100 |




**CALM**
5.16%

**VARIABLE**
15.45%

The prevailing wind directions of 260º-280º frequency of occurrence is 24.57%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 74.04%).

The maximum wind of 36-40 knots is observed within the 050º-100º sector (frequency of occurrence 0.14%).

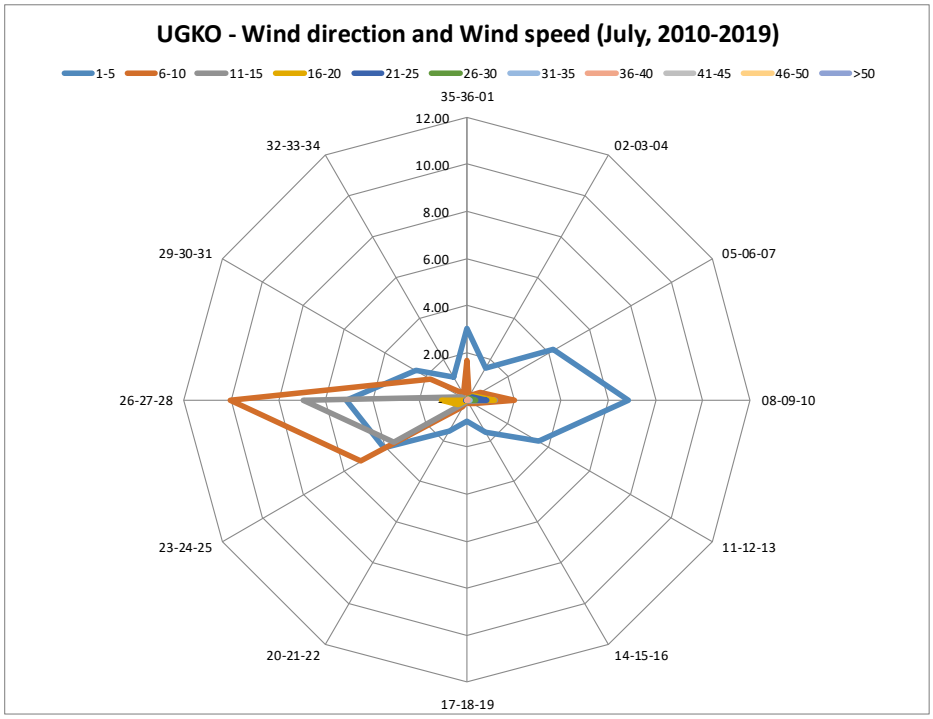
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 6.69 |
| VARIABLE | 16.62 | 0.35 | 0.01 | - | - | - | - | - | - | - | - | 16.99 |
| 35-36-01 | 3.04 | 1.69 | 0.02 | - | - | - | - | - | - | - | - | 4.76 |
| 02-03-04 | 1.56 | 0.18 | 0.01 | 0.01 | - | - | - | - | - | - | - | 1.76 |
| 05-06-07 | 4.24 | 0.62 | 0.24 | 0.32 | 0.29 | 0.11 | 0.02 | 0.02 | - | - | - | 5.88 |
| 08-09-10 | 6.83 | 2.03 | 1.21 | 1.16 | 0.85 | 0.38 | 0.16 | 0.05 | - | - | - | 12.67 |
| 11-12-13 | 3.54 | 0.35 | 0.09 | 0.02 | 0.01 | - | - | - | - | - | - | 4.01 |
| 14-15-16 | 1.57 | 0.16 | 0.01 | - | - | 0.01 | - | - | - | - | - | 1.74 |
| 17-18-19 | 0.91 | 0.08 | - | - | - | - | - | - | - | - | - | 0.99 |
| 20-21-22 | 1.54 | 0.35 | 0.10 | - | - | - | - | - | - | - | - | 2.00 |
| 23-24-25 | 4.09 | 5.18 | 3.58 | 0.43 | 0.01 | - | - | - | - | - | - | 13.28 |
| 26-27-28 | 5.13 | 10.05 | 6.93 | 1.09 | 0.06 | - | - | - | - | - | - | 23.26 |
| 29-30-31 | 2.51 | 1.77 | 0.28 | - | - | - | - | - | - | - | - | 4.56 |
| 32-33-34 | 1.11 | 0.28 | 0.02 | - | - | - | - | - | - | - | - | 1.42 |
| TOTAL | 52.69 | 23.11 | 12.52 | 3.02 | 1.22 | 0.50 | 0.18 | 0.07 | - | - | - | 100 |




**CALM**
6.69%

**VARIABLE**
16.99%

The prevailing wind directions of 260º-280º frequency of occurrence is 23.26%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 75.80%).

The maximum wind of 36-40 knots is observed within the 050º-100º sector (frequency of occurrence 0.07%).

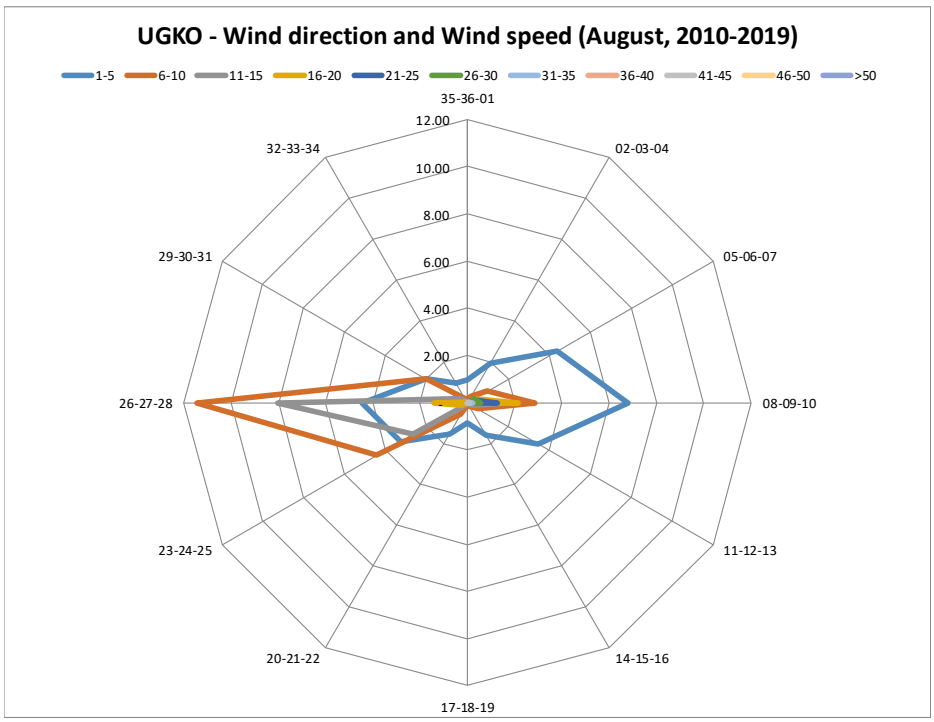
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 6.03 |
| VARIABLE | 16.99 | 0.46 | 0.02 | - | - | - | - | - | - | - | - | 17.48 |
| 35-36-01 | 0.97 | 0.14 | 0.01 | - | - | - | - | - | - | - | - | 1.11 |
| 02-03-04 | 1.94 | 0.29 | 0.02 | - | - | - | - | - | - | - | - | 2.25 |
| 05-06-07 | 4.38 | 0.97 | 0.26 | 0.34 | 0.26 | 0.31 | 0.06 | - | - | - | - | 6.59 |
| 08-09-10 | 6.81 | 2.84 | 1.73 | 2.16 | 1.25 | 0.58 | 0.21 | 0.06 | 0.07 | - | - | 15.71 |
| 11-12-13 | 3.49 | 0.52 | 0.21 | - | - | - | - | - | - | - | - | 4.21 |
| 14-15-16 | 1.59 | 0.17 | 0.03 | 0.02 | 0.01 | - | - | - | - | - | - | 1.82 |
| 17-18-19 | 0.87 | 0.12 | 0.01 | - | - | - | - | - | - | - | - | 1.00 |
| 20-21-22 | 1.53 | 0.56 | 0.05 | - | - | - | - | - | - | - | - | 2.14 |
| 23-24-25 | 3.28 | 4.44 | 2.68 | 0.26 | 0.01 | - | - | - | - | - | - | 10.66 |
| 26-27-28 | 4.47 | 11.43 | 8.04 | 1.41 | 0.02 | - | - | - | - | - | - | 25.38 |
| 29-30-31 | 2.00 | 2.01 | 0.34 | 0.04 | - | - | - | - | - | - | - | 4.38 |
| 32-33-34 | 0.98 | 0.19 | 0.04 | - | - | - | - | - | - | - | - | 1.21 |
| TOTAL | 49.30 | 24.15 | 13.45 | 4.21 | 1.55 | 0.89 | 0.27 | 0.06 | 0.07 | - | - | 100 |




**CALM**
6.03%

**VARIABLE**
17.48%

The prevailing wind directions of 260º-280º frequency of occurrence is 25.38%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 73.45%).

The maximum wind of 41-45 knots is observed within the 080º-100º sector (frequency of occurrence 0.07%).

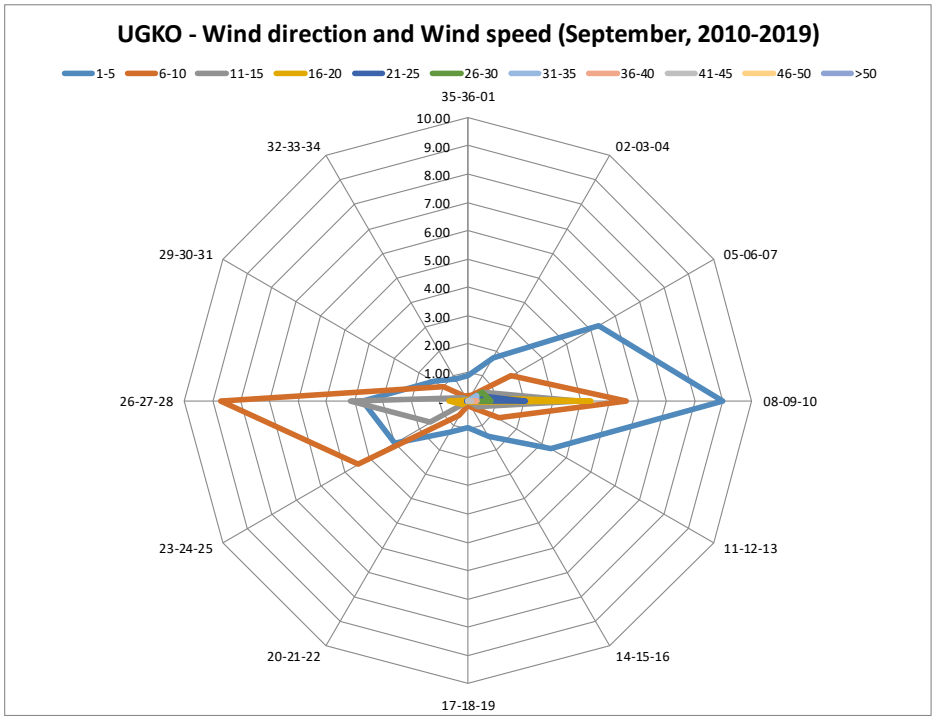
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 5.34 |
| VARIABLE | 15.28 | 0.49 | - | - | - | - | - | - | - | - | - | 15.77 |
| 35-36-01 | 0.90 | 0.18 | 0.01 | - | - | - | - | - | - | - | - | 1.08 |
| 02-03-04 | 1.75 | 0.20 | 0.01 | - | - | - | - | - | - | - | - | 1.97 |
| 05-06-07 | 5.31 | 1.78 | 0.61 | 0.18 | 0.34 | 0.56 | 0.36 | - | - | - | - | 9.14 |
| 08-09-10 | 9.00 | 5.60 | 3.90 | 4.33 | 2.05 | 0.83 | 0.30 | 0.29 | 0.13 | - | - | 26.44 |
| 11-12-13 | 3.38 | 1.24 | 0.42 | 0.09 | 0.01 | - | - | - | - | - | - | 5.13 |
| 14-15-16 | 1.44 | 0.27 | 0.01 | 0.01 | - | - | - | - | - | - | - | 1.73 |
| 17-18-19 | 0.95 | 0.18 | 0.01 | - | - | - | - | - | - | - | - | 1.13 |
| 20-21-22 | 1.29 | 0.60 | 0.07 | 0.02 | 0.01 | - | - | - | - | - | - | 1.98 |
| 23-24-25 | 2.99 | 4.49 | 1.54 | 0.24 | 0.02 | 0.01 | - | - | - | - | - | 9.29 |
| 26-27-28 | 3.74 | 8.74 | 4.14 | 0.68 | 0.03 | - | - | - | - | - | - | 17.32 |
| 29-30-31 | 1.38 | 1.01 | 0.19 | 0.02 | - | - | - | - | - | - | - | 2.59 |
| 32-33-34 | 0.88 | 0.18 | 0.01 | 0.01 | - | - | - | - | - | - | - | 1.08 |
| TOTAL | 48.29 | 24.95 | 10.90 | 5.57 | 2.45 | 1.40 | 0.66 | 0.29 | 0.13 | - | - | 100 |




**CALM**
5.34%

**VARIABLE**
15.77%

The prevailing wind directions of 080º-100º frequency of occurrence is 26.44%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 73.24%).

The maximum wind of 41-45 knots is observed within the 080º-100º sector (frequency of occurrence 0.13%).

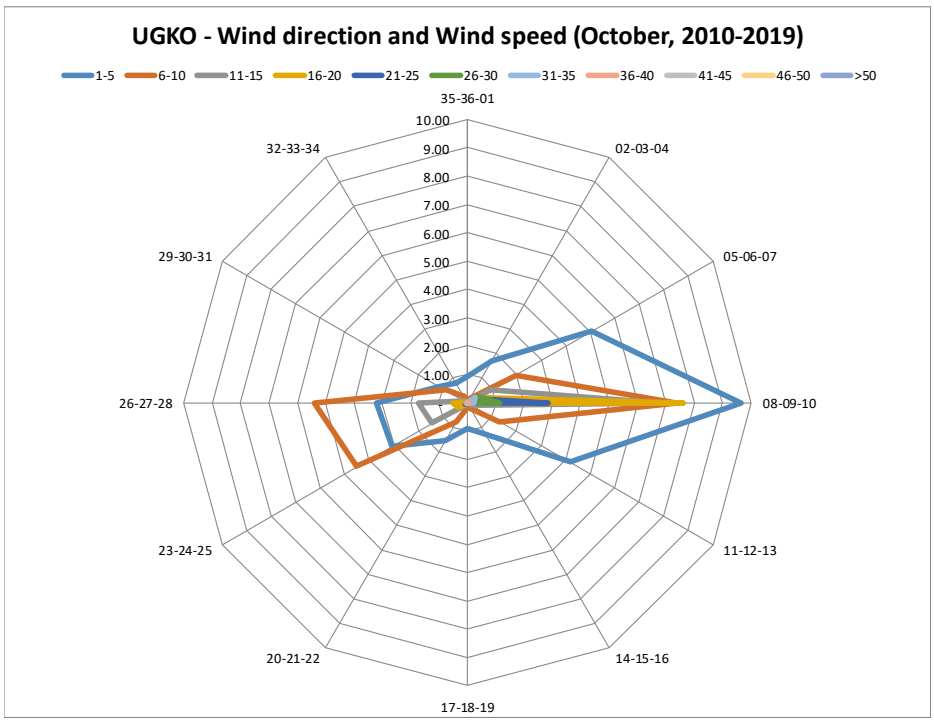
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 5.00 |
| VARIABLE | 12.10 | 0.27 | - | - | - | - | - | - | - | - | - | 12.37 |
| 35-36-01 | 0.93 | 0.07 | 0.02 | - | - | - | - | - | - | - | - | 1.02 |
| 02-03-04 | 1.72 | 0.17 | 0.02 | - | - | - | - | - | - | - | - | 1.90 |
| 05-06-07 | 5.03 | 1.96 | 0.93 | 0.38 | 0.32 | 0.47 | 0.32 | 0.02 | - | - | - | 9.44 |
| 08-09-10 | 9.63 | 7.38 | 6.82 | 7.61 | 2.87 | 1.12 | 0.21 | 0.06 | 0.01 | - | - | 35.70 |
| 11-12-13 | 4.21 | 1.32 | 0.22 | 0.05 | - | - | - | - | - | - | - | 5.80 |
| 14-15-16 | 1.27 | 0.23 | 0.02 | - | - | - | - | - | - | - | - | 1.52 |
| 17-18-19 | 0.93 | 0.16 | 0.01 | 0.01 | - | - | - | - | - | - | - | 1.10 |
| 20-21-22 | 1.55 | 0.79 | 0.13 | 0.01 | - | - | - | - | - | - | - | 2.48 |
| 23-24-25 | 3.07 | 4.50 | 1.45 | 0.36 | 0.08 | 0.03 | - | - | - | - | - | 9.48 |
| 26-27-28 | 3.22 | 5.39 | 1.74 | 0.51 | 0.05 | 0.02 | 0.04 | 0.02 | - | - | - | 10.96 |
| 29-30-31 | 1.14 | 0.88 | 0.10 | 0.04 | - | - | - | - | - | - | - | 2.15 |
| 32-33-34 | 0.80 | 0.25 | 0.02 | - | - | - | - | - | - | - | - | 1.07 |
| TOTAL | 45.59 | 23.36 | 11.46 | 8.95 | 3.31 | 1.63 | 0.58 | 0.10 | 0.01 | - | - | 100 |




**CALM**
5.00%

**VARIABLE**
12.37%

The prevailing wind directions of 080º-100º frequency of occurrence is 35.70%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 68.95%).

The maximum wind of 41-45 knots is observed within the 080º-100º sector (frequency of occurrence 0.01%).

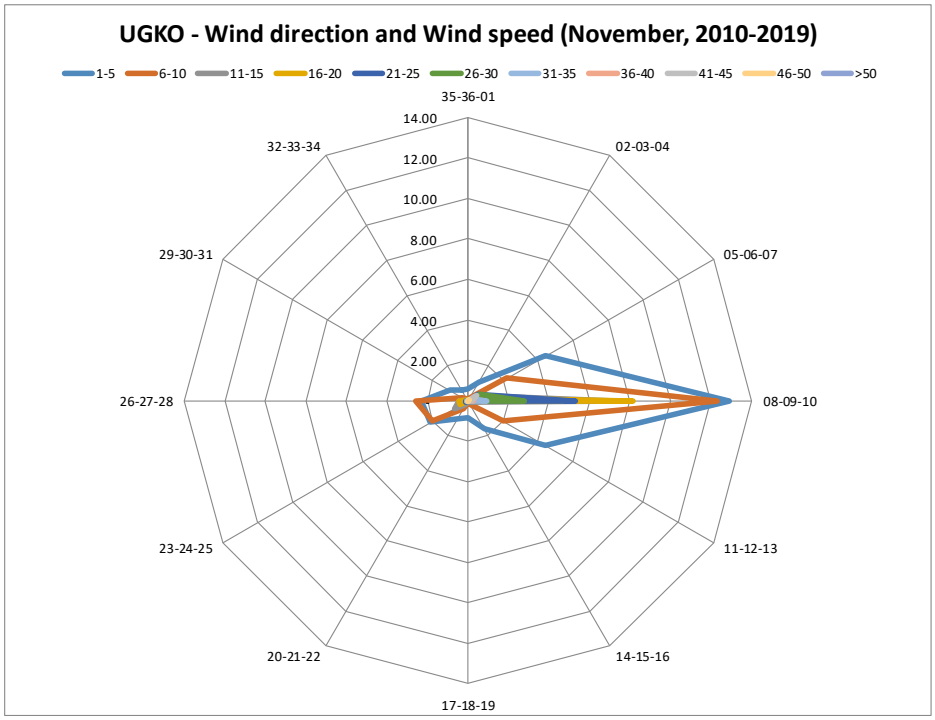
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 4.38 |
| VARIABLE | 8.76 | 0.15 | - | - | - | - | - | - | - | - | - | 8.91 |
| 35-36-01 | 0.58 | 0.09 | - | - | - | - | - | - | - | - | - | 0.67 |
| 02-03-04 | 1.03 | 0.19 | 0.01 | - | - | - | - | - | - | - | - | 1.23 |
| 05-06-07 | 4.43 | 2.21 | 0.53 | 0.32 | 0.59 | 0.66 | 0.23 | 0.38 | 0.48 | 0.04 | - | 9.86 |
| 08-09-10 | 12.92 | 12.28 | 7.41 | 8.13 | 5.31 | 2.80 | 0.91 | 0.25 | 0.16 | 0.02 | - | 50.20 |
| 11-12-13 | 4.39 | 2.04 | 0.15 | 0.01 | - | - | - | - | - | - | - | 6.59 |
| 14-15-16 | 1.58 | 0.21 | 0.01 | - | - | - | - | - | - | - | - | 1.80 |
| 17-18-19 | 0.82 | 0.11 | 0.01 | - | - | - | - | - | - | - | - | 0.94 |
| 20-21-22 | 1.03 | 0.48 | 0.23 | 0.05 | - | - | - | - | - | - | - | 1.79 |
| 23-24-25 | 2.17 | 2.02 | 0.79 | 0.42 | 0.11 | 0.02 | - | - | - | - | - | 5.53 |
| 26-27-28 | 2.31 | 2.55 | 0.46 | 0.43 | 0.11 | 0.02 | 0.03 | - | - | - | - | 5.92 |
| 29-30-31 | 1.03 | 0.32 | 0.10 | 0.04 | - | - | - | - | - | - | - | 1.48 |
| 32-33-34 | 0.58 | 0.11 | 0.03 | - | - | - | - | - | - | - | - | 0.72 |
| TOTAL | 41.65 | 22.74 | 9.71 | 9.40 | 6.11 | 3.51 | 1.17 | 0.63 | 0.64 | 0.06 | - | 100 |




**CALM**
4.38%

**VARIABLE**
8.91%

The prevailing wind directions of 080º-100º frequency of occurrence is 50.20%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 64.39%).

The maximum wind of 46-50 knots is observed within the 050º-070º and 080º-100º sectors (frequency of occurrence 0.06%).

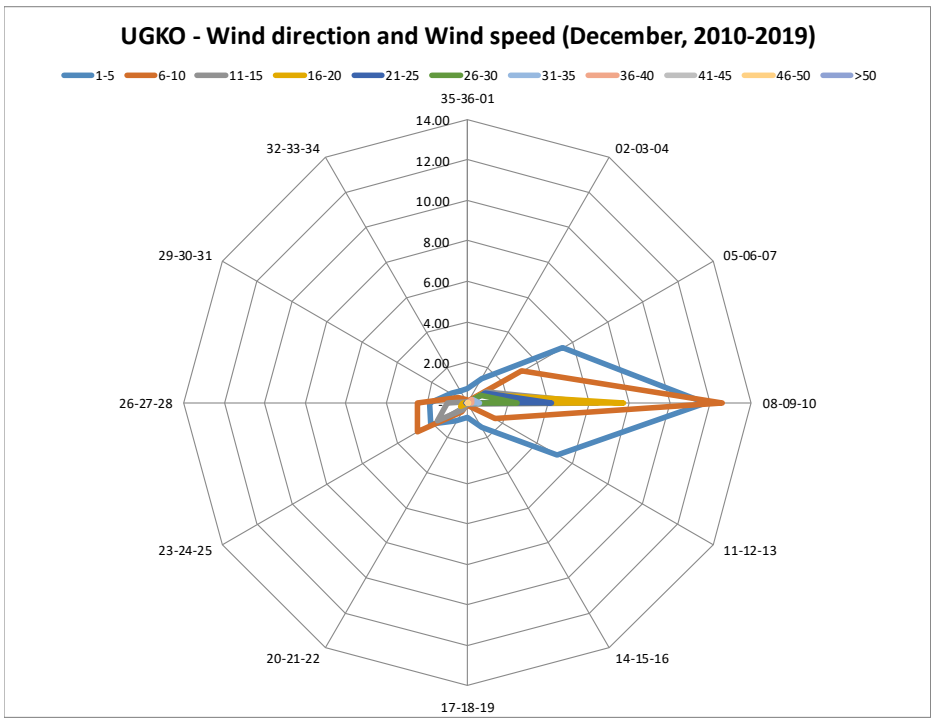
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 2.79 |
| VARIABLE | 9.53 | 0.11 | - | - | - | - | - | - | - | - | - | 9.63 |
| 35-36-01 | 0.69 | 0.08 | - | - | - | - | - | - | - | - | - | 0.77 |
| 02-03-04 | 1.40 | 0.12 | - | - | - | - | - | - | - | - | - | 1.51 |
| 05-06-07 | 5.42 | 3.09 | 1.05 | 0.83 | 0.99 | 0.76 | 0.30 | 0.27 | - | - | - | 12.70 |
| 08-09-10 | 11.76 | 12.59 | 6.46 | 7.74 | 4.13 | 2.43 | 0.62 | 0.22 | 0.05 | 0.05 | - | 46.07 |
| 11-12-13 | 5.14 | 1.59 | 0.13 | 0.07 | 0.02 | - | - | - | - | - | - | 6.95 |
| 14-15-16 | 1.40 | 0.24 | - | - | - | - | - | - | - | - | - | 1.65 |
| 17-18-19 | 0.72 | 0.09 | - | - | - | - | - | - | - | - | - | 0.80 |
| 20-21-22 | 1.05 | 0.55 | 0.41 | 0.01 | - | - | - | - | - | - | - | 2.01 |
| 23-24-25 | 2.07 | 2.87 | 1.74 | 0.39 | 0.06 | - | - | - | - | - | - | 7.13 |
| 26-27-28 | 1.85 | 2.49 | 0.99 | 0.24 | 0.02 | 0.01 | - | - | - | - | - | 5.60 |
| 29-30-31 | 0.91 | 0.54 | 0.05 | - | - | - | - | - | - | - | - | 1.51 |
| 32-33-34 | 0.70 | 0.16 | 0.01 | - | - | - | - | - | - | - | - | 0.87 |
| TOTAL | 42.65 | 24.51 | 10.84 | 9.28 | 5.23 | 3.20 | 0.92 | 0.48 | 0.05 | 0.05 | - | 100 |




**CALM**
2.79%

**VARIABLE**
9.63%

The prevailing wind directions of 080º-100º frequency of occurrence is 46.07%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 67.16%).

The maximum wind of 46-50 knots is observed within the 080º-100º sector (frequency of occurrence 0.05%).

**AERONAUTICAL CLIMATOLOGY**

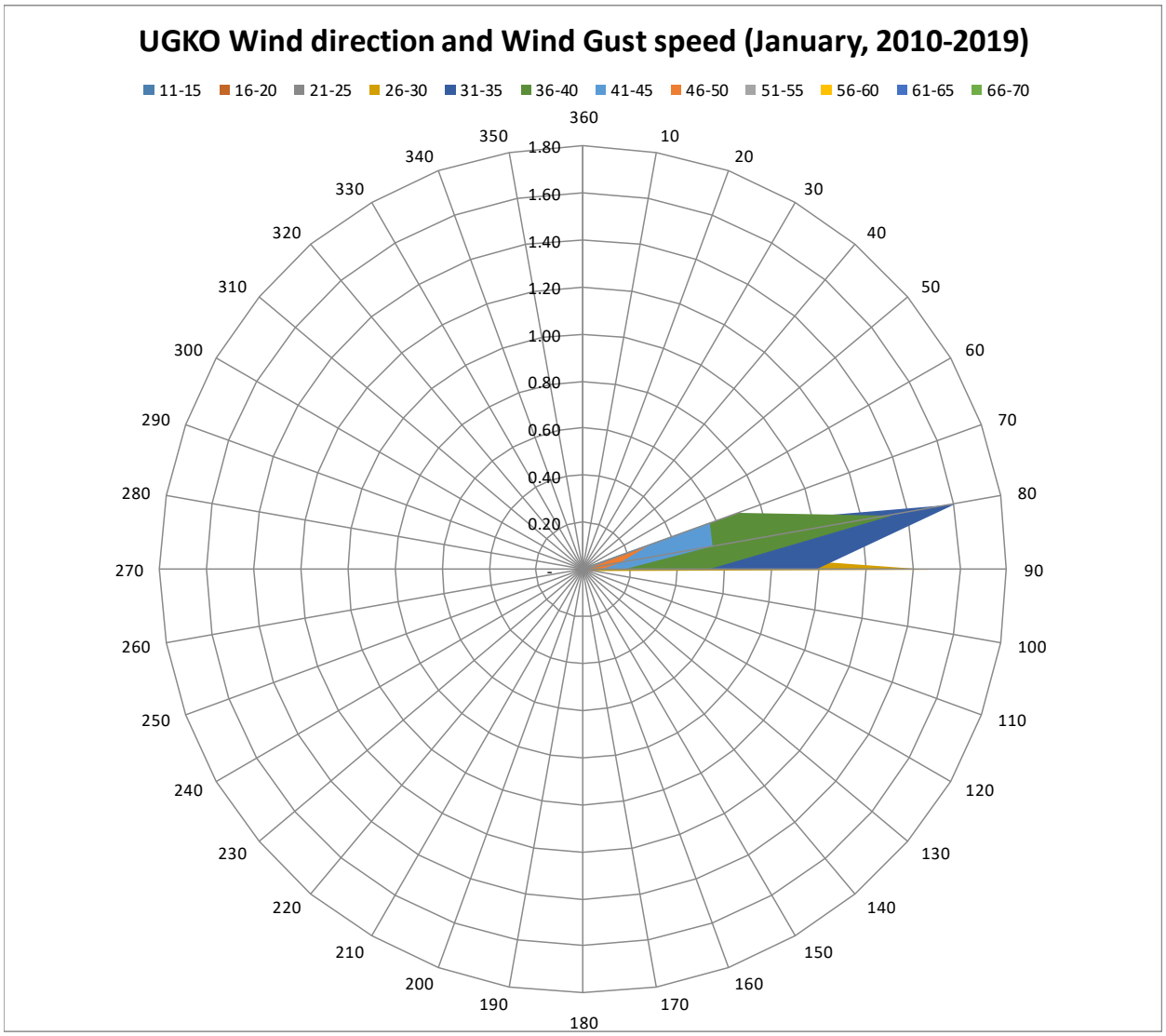
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | 0.01 | - | 0.01 | - | - | - | - | - | - | - | 0.02 |
| 60 | - | - | - | 0.03 | 0.02 | 0.02 | 0.02 | - | - | - | - | - | - | 0.09 |
| 70 | - | - | 0.01 | 0.16 | 0.55 | 0.71 | 0.57 | 0.29 | 0.14 | 0.06 | - | - | - | 2.49 |
| 80 | - | 0.01 | 0.02 | 0.43 | 1.60 | 1.33 | 0.56 | 0.16 | 0.02 | - | - | - | - | 4.11 |
| 90 | 0.02 | 0.04 | 0.84 | 1.47 | 0.98 | 0.53 | 0.16 | 0.07 | 0.07 | 0.01 | - | - | - | 4.19 |
| 100 | - | 0.01 | 0.02 | 0.03 | 0.01 | - | - | - | - | - | - | - | - | 0.07 |
| 110 | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | - | 0.02 |
| 120 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 130 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 190 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | 0.01 | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.02 |
| 220 | - | - | 0.01 | 0.02 | - | - | - | - | - | - | - | - | - | 0.03 |
| 230 | - | - | 0.01 | 0.02 | - | - | - | - | - | - | - | - | - | 0.03 |
| 240 | - | - | 0.01 | 0.02 | 0.02 | - | - | - | - | - | - | - | - | 0.04 |
| 250 | - | - | 0.01 | 0.06 | 0.01 | - | - | - | - | - | - | - | - | 0.07 |
| 260 | - | - | 0.01 | - | 0.01 | - | - | - | - | - | - | - | - | 0.02 |
| 270 | - | - | 0.02 | 0.01 | 0.02 | - | - | - | - | - | - | - | - | 0.05 |
| 280 | - | - | - | - | 0.03 | - | - | - | - | - | - | - | - | 0.03 |
| 290 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.02 | 0.07 | 0.96 | 2.30 | 3.27 | 2.59 | 1.31 | 0.52 | 0.23 | 0.07 | - | - | - | 11.32 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 2.13%).

The maximum wind speed (56-60 knots) corresponds to the Violent storm according to “Beaufort wind force scale” (frequency of occurrence – 0.07%).

The directions of maximum wind gusts are 070º and 090º.

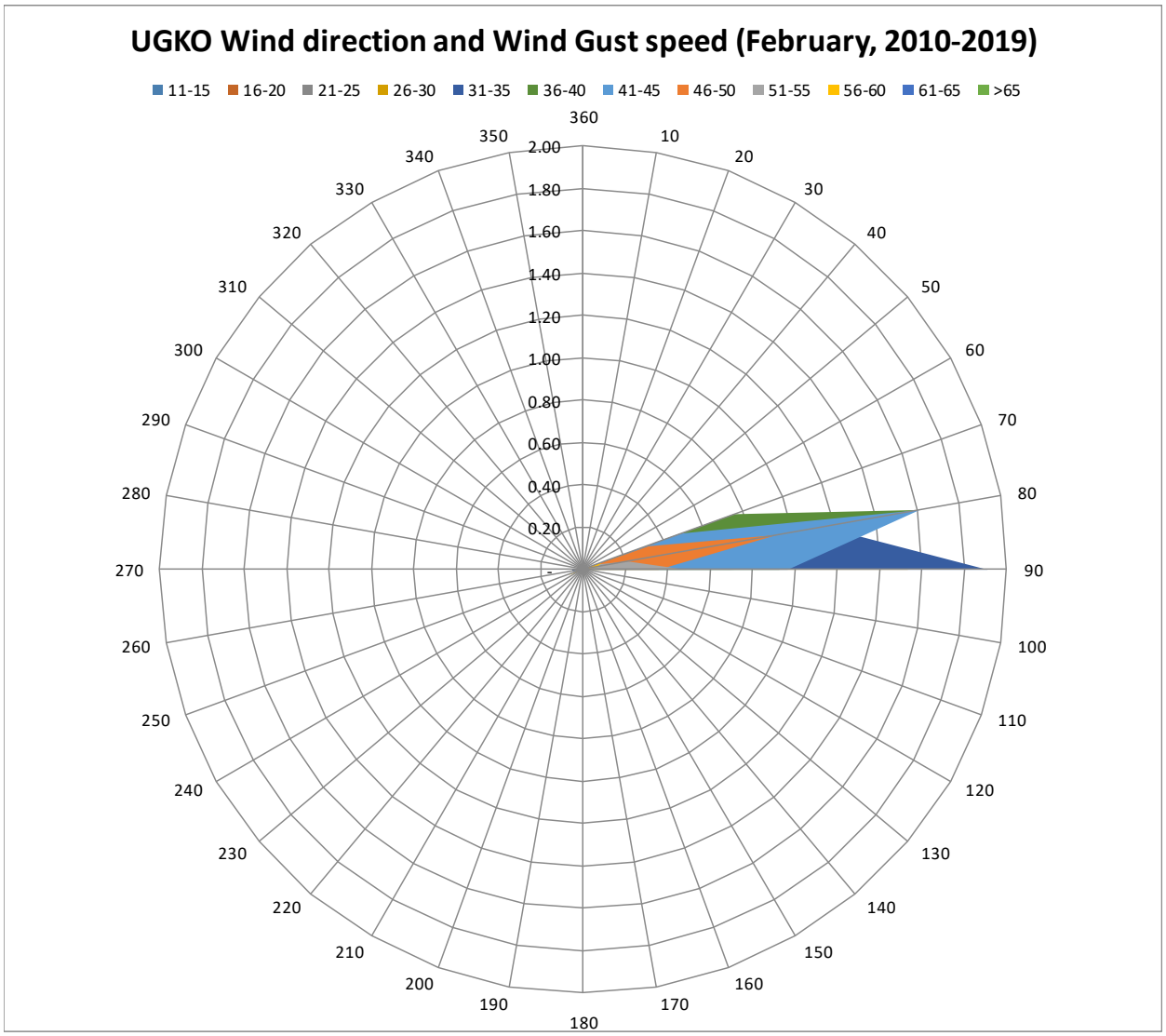
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12192 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 60 | - | - | - | - | - | 0.01 | - | 0.01 | - | - | - | - | - | 0.02 |
| 70 | - | - | 0.03 | 0.09 | 0.32 | 0.75 | 0.48 | 0.33 | 0.08 | 0.09 | - | - | - | 2.17 |
| 80 | - | - | 0.05 | 0.58 | 1.15 | 1.60 | 1.61 | 0.92 | 0.22 | 0.07 | - | - | - | 6.20 |
| 90 | - | 0.03 | 0.72 | 1.54 | 1.91 | 0.92 | 0.97 | 0.35 | 0.48 | - | - | - | - | 6.92 |
| 100 | - | - | 0.01 | 0.03 | 0.02 | - | 0.01 | - | - | - | - | - | - | 0.06 |
| 110 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | 0.01 | 0.02 | 0.01 | - | - | - | - | - | - | - | - | 0.03 |
| 240 | - | 0.01 | - | - | 0.02 | - | - | - | - | - | - | - | - | 0.03 |
| 250 | - | - | 0.02 | 0.08 | 0.03 | - | - | - | - | - | - | - | - | 0.12 |
| 260 | - | - | - | 0.02 | 0.05 | 0.01 | - | - | - | - | - | - | - | 0.08 |
| 270 | - | - | 0.01 | - | 0.05 | - | - | - | - | - | - | - | - | 0.06 |
| 280 | - | - | - | 0.01 | 0.01 | 0.03 | - | - | - | - | - | - | - | 0.04 |
| 290 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.05 | 0.84 | 2.36 | 3.56 | 3.32 | 3.07 | 1.61 | 0.78 | 0.16 | - | - | - | 15.75 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 5.62%).

The maximum wind speed (56-60 knots) corresponds to the Violent storm according to “Beaufort wind force scale” (frequency of occurrence – 0.16%).

The directions of maximum wind gusts are 070º and 080º.

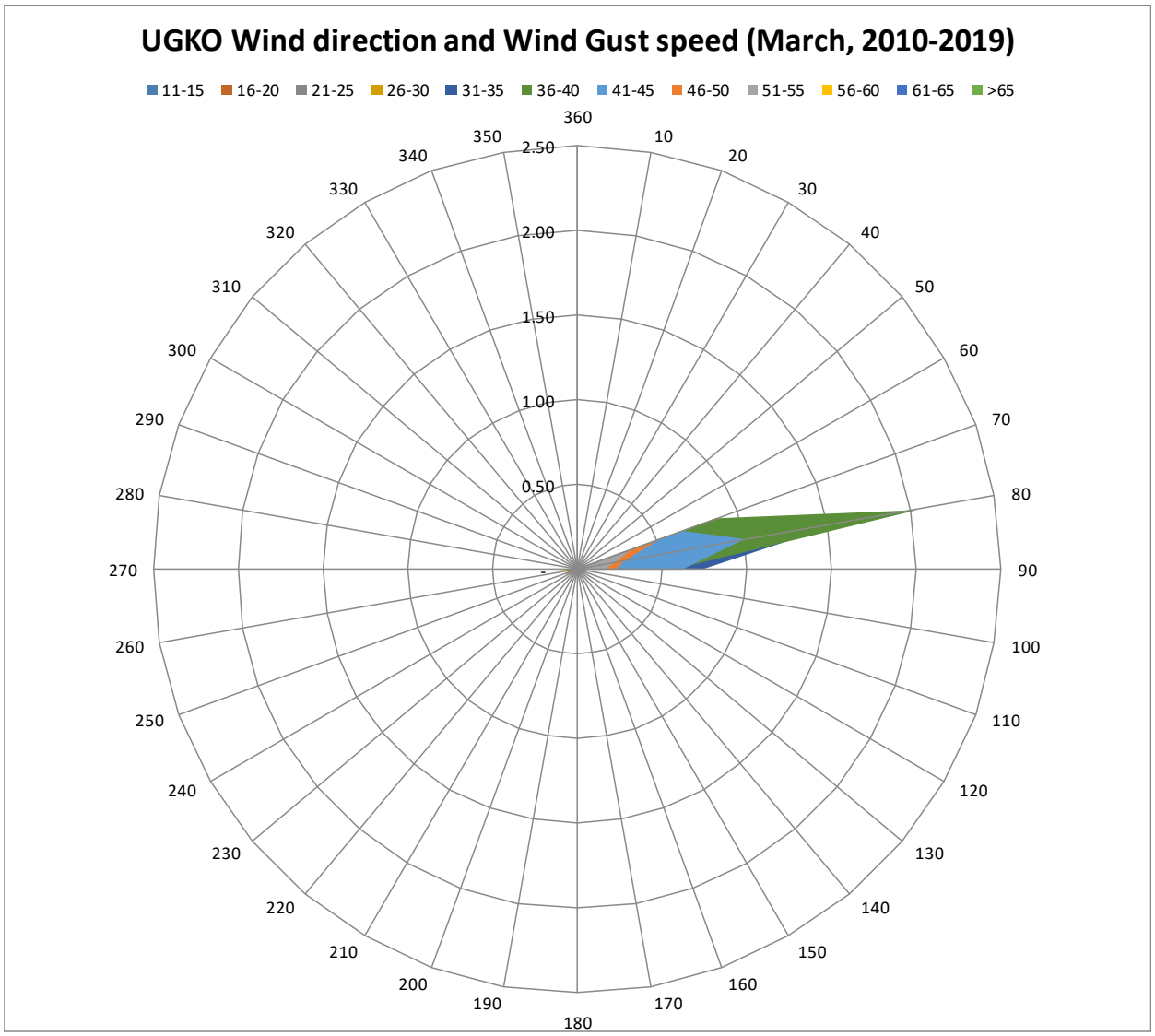
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 60 | - | - | - | - | - | 0.02 | 0.01 | - | - | - | - | - | - | 0.03 |
| 70 | - | - | - | 0.09 | 0.52 | 0.87 | 0.66 | 0.51 | 0.34 | 0.04 | - | - | - | 3.02 |
| 80 | - | 0.01 | 0.02 | 0.40 | 1.62 | 2.03 | 1.00 | 0.28 | 0.22 | 0.03 | 0.02 | - | - | 5.64 |
| 90 | - | 0.02 | 0.14 | 0.50 | 0.74 | 0.56 | 0.62 | 0.23 | 0.16 | 0.05 | - | - | - | 3.01 |
| 100 | - | - | - | 0.02 | 0.03 | - | - | - | - | - | - | - | - | 0.05 |
| 110 | - | 0.02 | - | 0.02 | - | - | - | - | - | - | - | - | - | 0.03 |
| 120 | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.02 |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 220 | - | 0.01 | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.02 |
| 230 | - | - | - | 0.02 | 0.02 | - | - | - | - | - | - | - | - | 0.04 |
| 240 | - | - | 0.02 | 0.06 | - | 0.02 | 0.01 | - | - | - | - | - | - | 0.10 |
| 250 | - | - | 0.04 | 0.08 | 0.05 | 0.04 | 0.02 | - | - | - | - | - | - | 0.22 |
| 260 | - | - | 0.02 | 0.06 | 0.02 | 0.01 | - | - | - | - | - | - | - | 0.09 |
| 270 | - | - | 0.07 | 0.10 | 0.03 | - | - | - | - | - | - | - | - | 0.21 |
| 280 | - | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | 0.02 |
| 290 | - | - | - | 0.02 | - | - | - | - | - | - | - | - | - | 0.02 |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.06 | 0.32 | 1.38 | 3.04 | 3.56 | 2.31 | 1.01 | 0.72 | 0.12 | 0.02 | - | - | 12.53 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 4.18%).

The maximum wind speed (61-65 knots) corresponds to the Violent storm or Hurricane according to "Beaufort wind force scale" (frequency of occurrence – 0.02%).

The directions of maximum wind gusts is 080º.

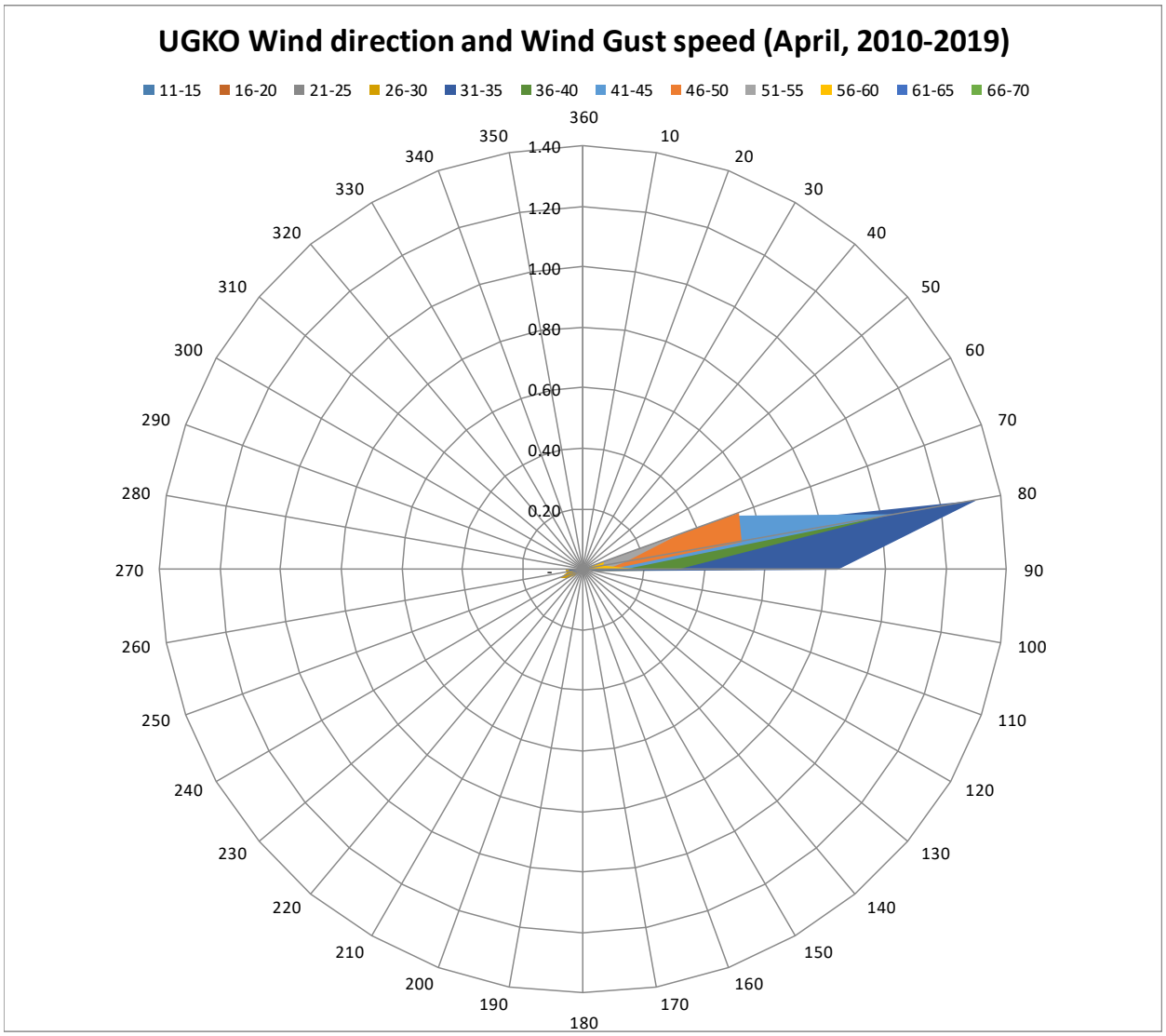
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | 0.01 | 0.01 | - | 0.01 | - | - | - | - | - | - | 0.02 |
| 70 | - | - | - | 0.12 | 0.39 | 0.45 | 0.51 | 0.55 | 0.33 | 0.07 | 0.01 | - | - | 2.44 |
| 80 | - | - | 0.03 | 0.25 | 1.32 | 1.00 | 1.04 | 0.53 | 0.15 | 0.07 | 0.01 | - | - | 4.40 |
| 90 | - | 0.01 | 0.24 | 0.57 | 0.84 | 0.31 | 0.13 | 0.08 | 0.07 | 0.20 | 0.15 | 0.04 | - | 2.66 |
| 100 | - | - | 0.02 | 0.03 | 0.03 | - | - | - | - | - | - | - | - | 0.08 |
| 110 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 120 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 200 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 210 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | 0.02 | 0.03 | 0.01 | - | 0.01 | - | - | - | - | - | - | 0.07 |
| 240 | - | - | 0.01 | 0.06 | 0.02 | 0.02 | - | - | - | - | - | - | - | 0.11 |
| 250 | - | - | 0.01 | 0.08 | 0.02 | 0.02 | - | 0.01 | - | - | - | - | - | 0.14 |
| 260 | - | - | 0.02 | 0.06 | 0.04 | 0.02 | - | - | - | - | - | - | - | 0.14 |
| 270 | - | - | 0.03 | 0.06 | 0.05 | 0.01 | - | - | - | - | - | - | - | 0.15 |
| 280 | - | - | 0.02 | - | - | - | - | - | - | - | - | - | - | 0.02 |
| 290 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.01 | 0.42 | 1.31 | 2.75 | 1.83 | 1.70 | 1.17 | 0.55 | 0.34 | 0.17 | 0.04 | - | 10.29 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 3.97%).

The maximum wind speed (66-70 knots) corresponds to the Hurricane according to “Beaufort wind force scale” (frequency of occurrence – 0.04%).

The direction of maximum wind gusts is 090º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

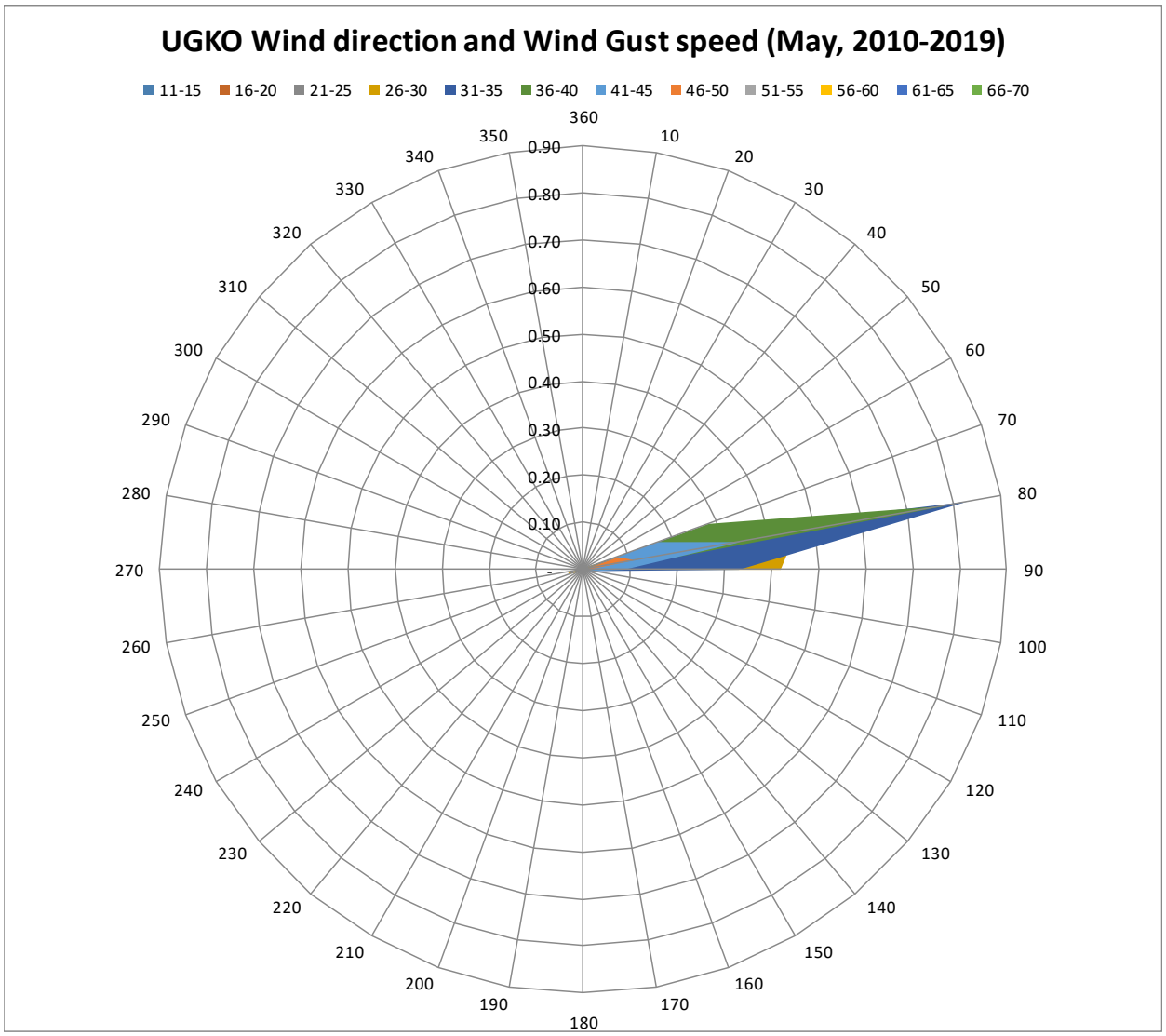
AERODROME: UGKO MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | 0.01 | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.02 |
| 70 | - | - | 0.02 | 0.09 | 0.21 | 0.28 | 0.17 | 0.08 | - | - | - | - | - | 0.84 |
| 80 | - | - | 0.04 | 0.46 | 0.83 | 0.78 | 0.34 | 0.11 | 0.02 | - | - | - | - | 2.57 |
| 90 | - | 0.01 | 0.13 | 0.42 | 0.33 | 0.06 | 0.09 | 0.01 | - | - | - | - | - | 1.03 |
| 100 | - | - | - | 0.01 | 0.02 | - | 0.02 | - | - | - | - | - | - | 0.04 |
| 110 | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.02 |
| 120 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 130 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | 0.02 | - | - | - | - | - | - | - | - | - | - | 0.02 |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 220 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 230 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 240 | - | - | - | 0.02 | 0.01 | 0.02 | 0.01 | - | - | - | - | - | - | 0.05 |
| 250 | - | - | - | 0.03 | 0.02 | 0.01 | 0.01 | - | - | - | - | - | - | 0.07 |
| 260 | - | - | 0.01 | 0.03 | 0.01 | - | - | - | - | - | - | - | - | 0.05 |
| 270 | - | - | 0.05 | 0.01 | - | - | - | - | - | - | - | - | - | 0.06 |
| 280 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 290 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.02 | 0.27 | 1.11 | 1.44 | 1.14 | 0.62 | 0.20 | 0.02 | - | - | - | - | 4.82 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 0.84%).

The maximum wind speed (51-55 knots) corresponds to the Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.02%).

The directions of maximum wind gusts are 080º.

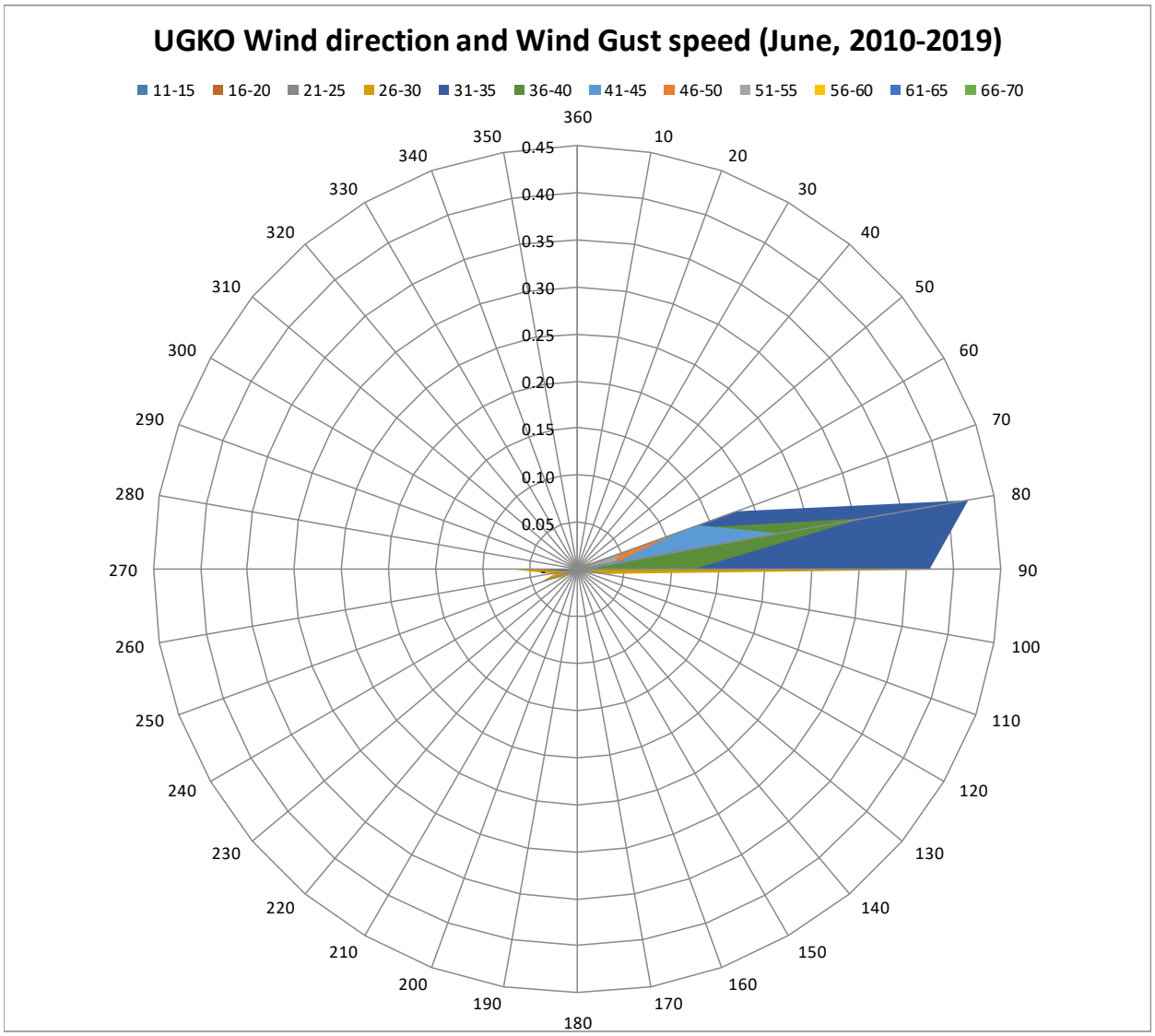
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 70 | - | - | - | 0.11 | 0.18 | 0.13 | 0.14 | 0.12 | 0.05 | - | - | - | - | 0.72 |
| 80 | - | - | 0.02 | 0.24 | 0.42 | 0.31 | 0.22 | 0.04 | 0.04 | - | - | - | - | 1.29 |
| 90 | - | 0.01 | 0.12 | 0.38 | 0.37 | 0.12 | 0.01 | - | - | - | - | - | - | 1.01 |
| 100 | - | - | 0.02 | 0.02 | - | - | - | - | - | - | - | - | - | 0.05 |
| 110 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | - | 0.02 |
| 240 | - | - | 0.01 | 0.02 | - | - | - | - | - | - | - | - | - | 0.02 |
| 250 | - | - | 0.02 | 0.04 | 0.04 | - | - | - | - | - | - | - | - | 0.10 |
| 260 | - | - | 0.02 | 0.02 | 0.01 | - | - | 0.01 | - | - | - | - | - | 0.06 |
| 270 | - | - | 0.06 | 0.06 | 0.04 | - | - | - | - | - | - | - | - | 0.16 |
| 280 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 290 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.02 | 0.28 | 0.90 | 1.06 | 0.57 | 0.37 | 0.17 | 0.09 | - | - | - | - | 3.46 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 0.63%).

The maximum wind speed (51-55 knots) corresponds to the Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.09%).

The direction of maximum wind gusts is 070º and 080º.

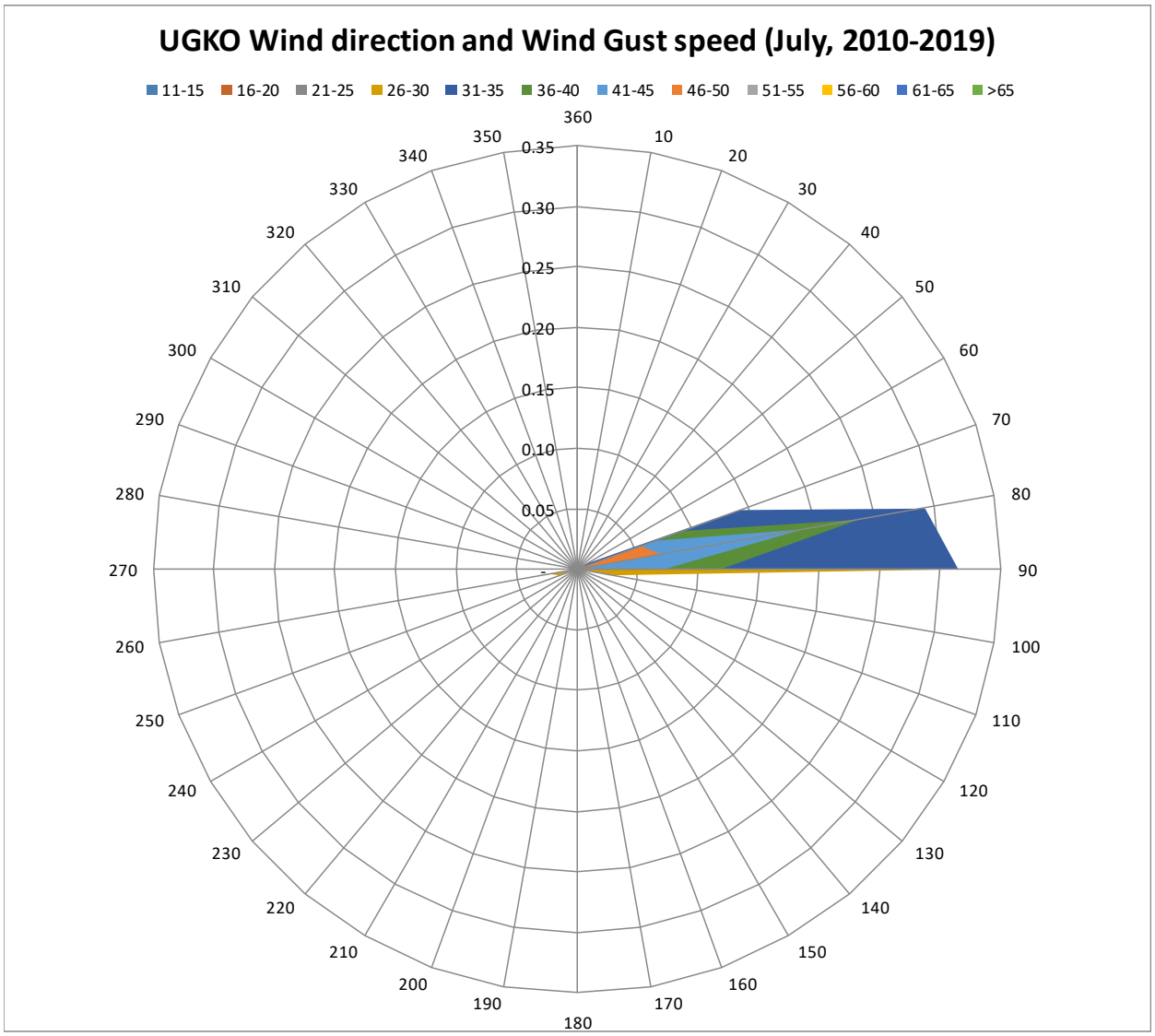
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 70 | - | - | - | 0.07 | 0.14 | 0.09 | 0.07 | 0.06 | - | - | - | - | - | 0.43 |
| 80 | - | - | - | 0.07 | 0.29 | 0.24 | 0.19 | 0.07 | 0.01 | - | - | - | - | 0.87 |
| 90 | - | 0.06 | 0.12 | 0.30 | 0.32 | 0.12 | 0.07 | - | - | - | - | - | - | 0.99 |
| 100 | - | - | 0.01 | 0.03 | - | - | - | - | - | - | - | - | - | 0.04 |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | 0.02 |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | 0.02 | - | - | - | - | - | - | - | - | - | 0.02 |
| 260 | - | - | - | 0.02 | 0.03 | - | - | - | - | - | - | - | - | 0.06 |
| 270 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | 0.01 | 0.02 | - | - | - | - | - | - | - | - | - | 0.02 |
| 290 | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.02 |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.07 | 0.14 | 0.54 | 0.80 | 0.45 | 0.33 | 0.13 | 0.01 | - | - | - | - | 2.46 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 0.47%).

The maximum wind speed (51-55 knots) corresponds to the Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.01%).

The direction of maximum wind gusts is 080º.

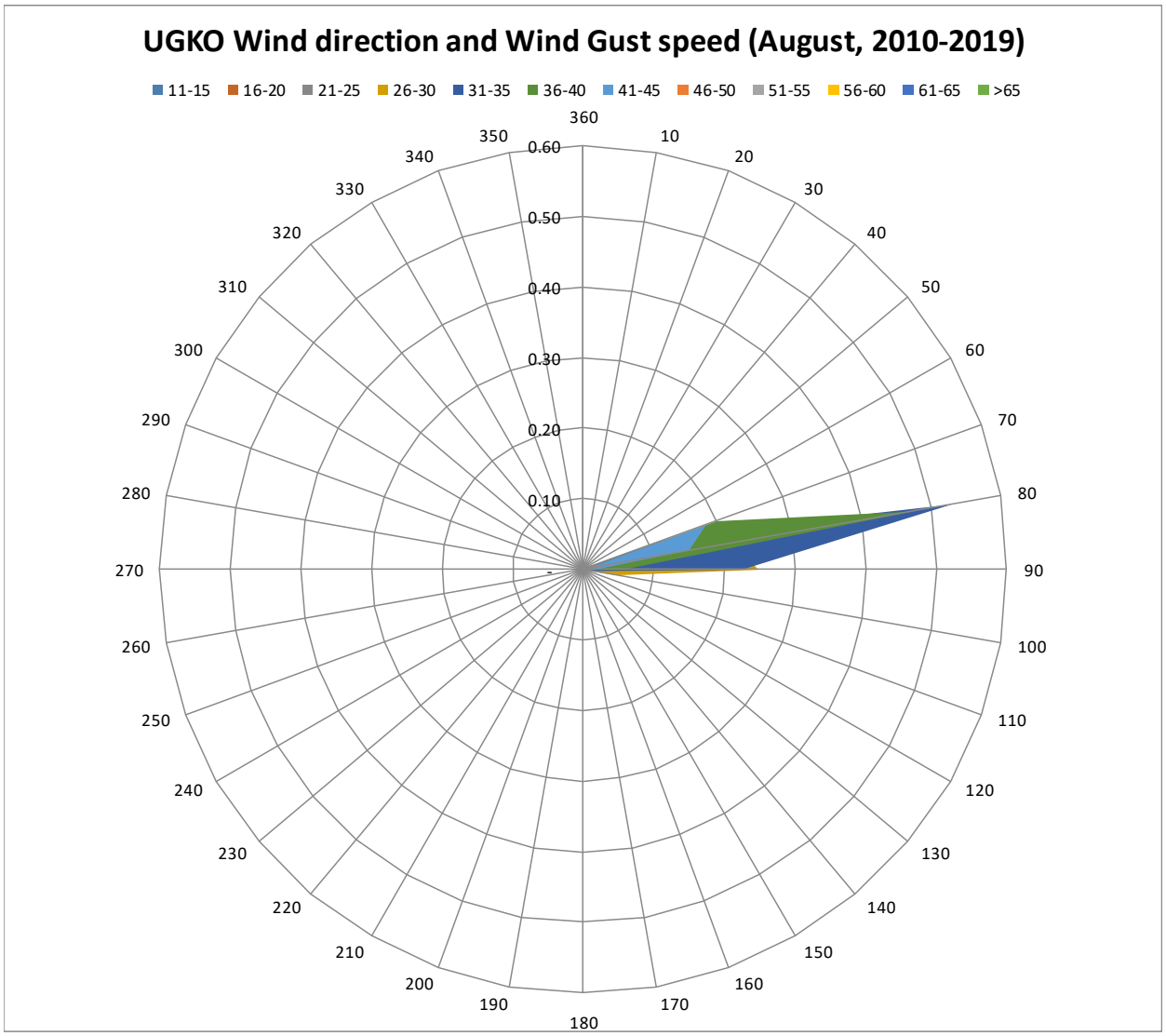
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 70 | - | - | 0.02 | 0.06 | 0.14 | 0.20 | 0.18 | 0.02 | - | - | - | - | - | 0.62 |
| 80 | - | - | 0.03 | 0.22 | 0.53 | 0.47 | 0.15 | 0.04 | 0.01 | - | - | - | - | 1.45 |
| 90 | - | - | 0.10 | 0.25 | 0.22 | 0.06 | 0.02 | - | - | - | - | - | - | 0.65 |
| 100 | - | - | 0.02 | 0.05 | 0.02 | - | - | - | - | - | - | - | - | 0.09 |
| 110 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 120 | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.02 |
| 130 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | 0.01 | - | - | 0.01 | - | - | - | - | - | - | - | - | 0.02 |
| 250 | - | - | 0.02 | 0.01 | - | - | - | - | - | - | - | - | - | 0.02 |
| 260 | - | - | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | 0.02 |
| 270 | - | - | 0.02 | - | - | - | - | - | - | - | - | - | - | 0.02 |
| 280 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.02 | 0.22 | 0.60 | 0.94 | 0.74 | 0.35 | 0.06 | 0.01 | - | - | - | - | 2.94 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 0.42%).

The maximum wind speed (51-55 knots) corresponds to the Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.01%).

The direction of maximum wind gusts is 080º.

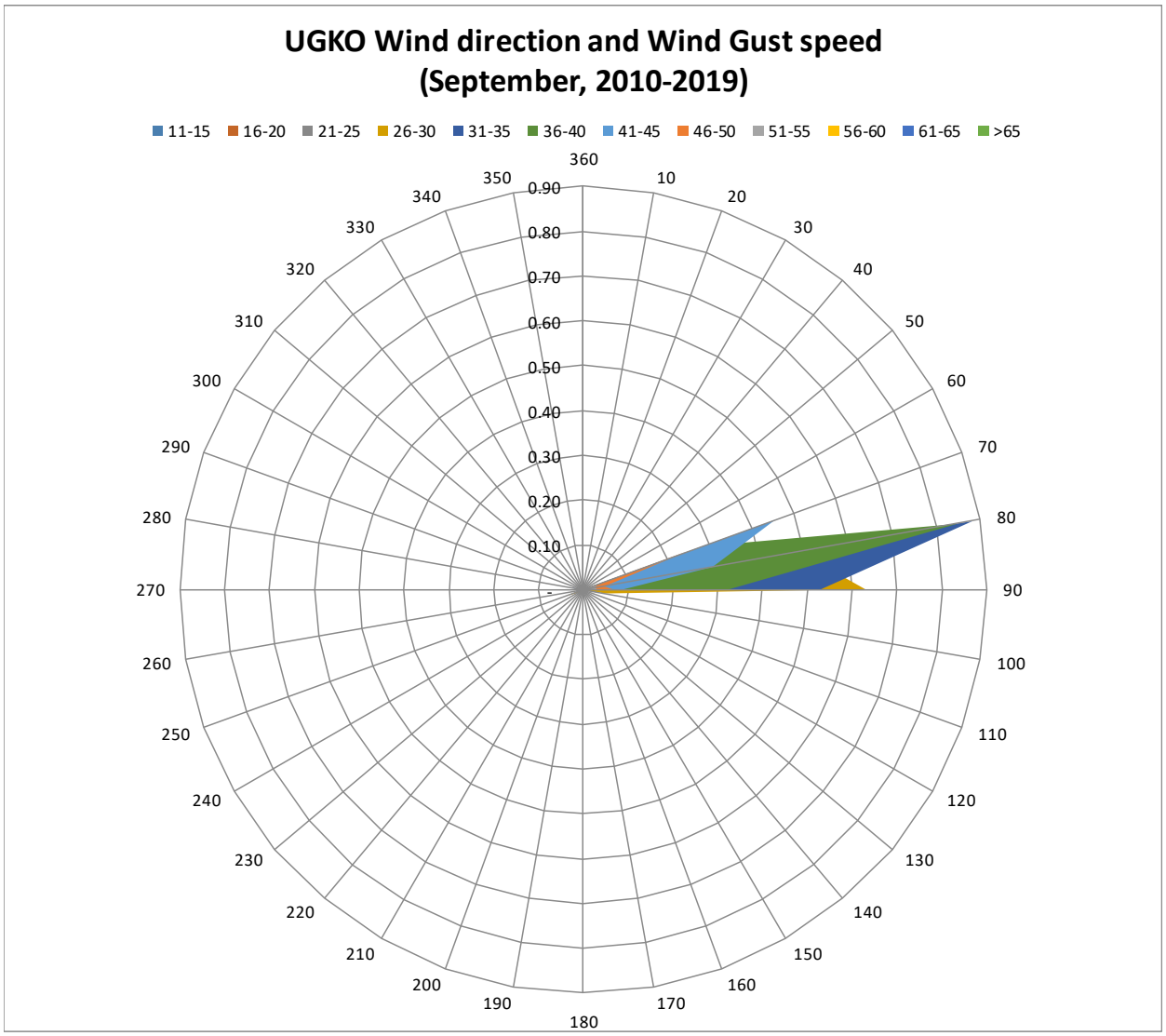
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | 0.02 | 0.12 | 0.29 | 0.46 | 0.24 | 0.03 | - | - | - | - | 1.17 |
| 80 | - | - | 0.06 | 0.49 | 0.88 | 0.85 | 0.29 | 0.05 | 0.02 | - | - | - | - | 2.64 |
| 90 | - | - | 0.12 | 0.63 | 0.53 | 0.33 | 0.09 | 0.07 | 0.03 | 0.10 | - | - | - | 1.89 |
| 100 | - | - | 0.02 | 0.05 | - | - | - | - | - | - | - | - | - | 0.07 |
| 110 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | - | 0.01 | 0.01 | 0.01 | - | - | - | - | - | - | - | - | - | 0.02 |
| 250 | - | - | 0.02 | 0.04 | 0.02 | 0.01 | - | - | - | - | - | - | - | 0.08 |
| 260 | - | - | 0.01 | 0.01 | 0.02 | - | - | - | - | - | - | - | - | 0.03 |
| 270 | - | - | 0.01 | 0.02 | 0.02 | - | - | - | - | - | - | - | - | 0.04 |
| 280 | - | - | - | 0.01 | 0.02 | - | - | - | - | - | - | - | - | 0.03 |
| 290 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | 0.01 | - | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.02 | 0.26 | 1.27 | 1.61 | 1.47 | 0.85 | 0.36 | 0.09 | 0.10 | - | - | - | 6.02 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 1.4%).

The maximum wind speed (56-60 knots) corresponds to the Violent Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.10%).

The direction of maximum wind gusts is 090º.

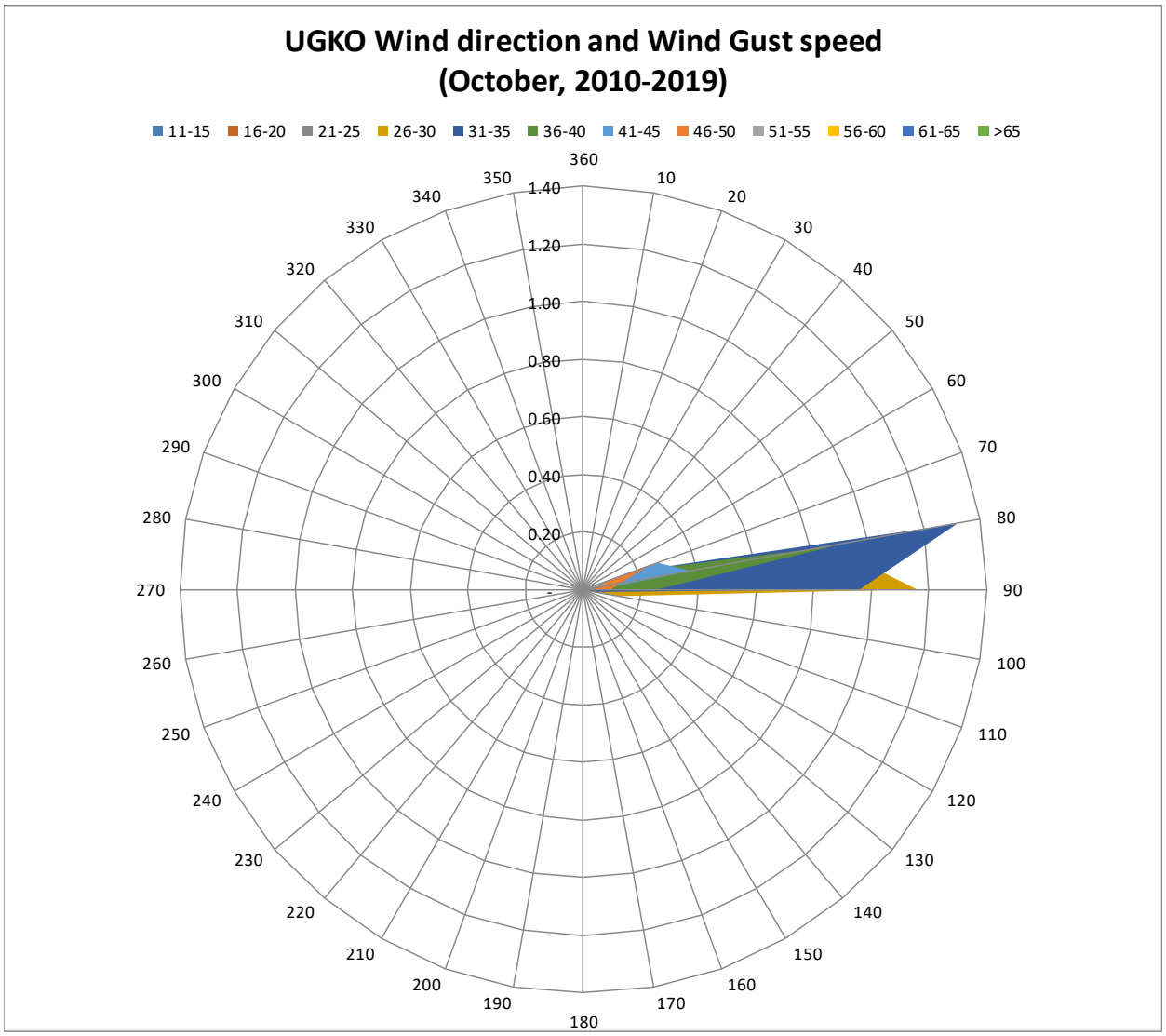
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | 0.01 | 0.07 | 0.19 | 0.19 | 0.28 | 0.25 | 0.09 | 0.01 | - | - | - | 1.09 |
| 80 | - | - | 0.06 | 0.87 | 1.32 | 0.88 | 0.38 | 0.13 | 0.07 | - | - | - | - | 3.71 |
| 90 | - | 0.02 | 0.12 | 1.16 | 0.96 | 0.26 | 0.06 | 0.10 | 0.02 | - | - | - | - | 2.69 |
| 100 | - | - | 0.05 | 0.13 | 0.04 | - | - | - | - | - | - | - | - | 0.21 |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | 0.01 | - | 0.01 | - | - | - | - | - | - | - | 0.02 |
| 240 | - | - | - | - | 0.01 | 0.03 | - | - | - | - | - | - | - | 0.04 |
| 250 | - | - | 0.01 | 0.01 | 0.04 | 0.02 | 0.01 | - | - | - | - | - | - | 0.08 |
| 260 | - | - | 0.02 | 0.03 | - | - | - | - | - | - | - | - | - | 0.05 |
| 270 | - | - | 0.01 | 0.04 | 0.05 | 0.02 | - | - | - | - | - | - | - | 0.11 |
| 280 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 290 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.02 | 0.27 | 2.35 | 2.60 | 1.40 | 0.72 | 0.48 | 0.18 | 0.01 | - | - | - | 8.02 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 1.39%).

The maximum wind speed (56-60 knots) corresponds to the Violent Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.01%).

The direction of maximum wind gusts is 070º.

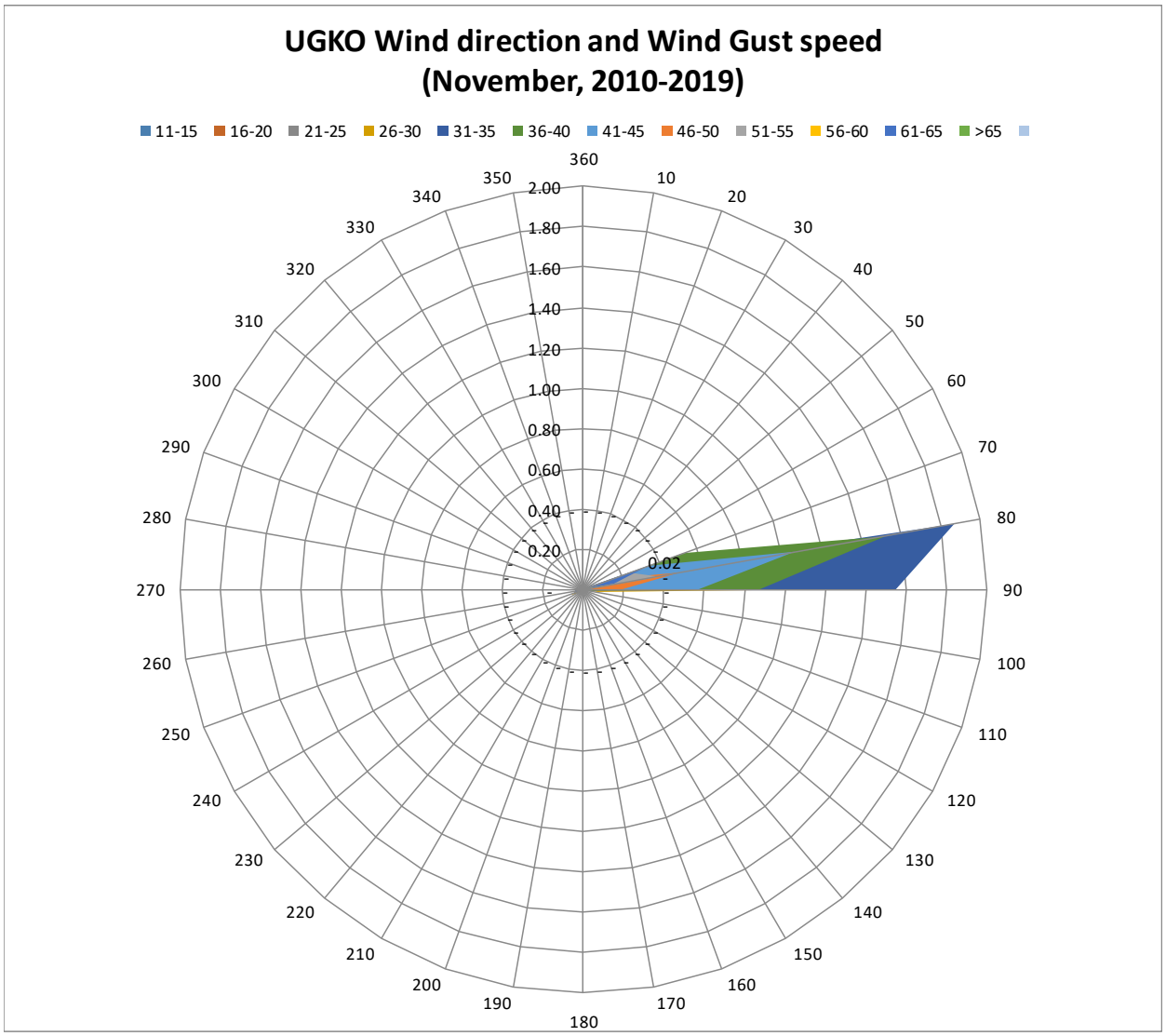
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | 0.03 | 0.02 | 0.01 | - | - | - | - | - | - | 0.06 |
| 70 | - | - | 0.01 | 0.04 | 0.24 | 0.53 | 0.36 | 0.17 | 0.24 | 0.25 | 0.35 | 0.05 | 0.02 | 2.25 |
| 80 | - | - | 0.03 | 0.57 | 1.87 | 1.52 | 1.07 | 0.48 | 0.39 | 0.10 | 0.15 | 0.02 | - | 6.19 |
| 90 | - | - | 0.08 | 1.20 | 1.55 | 0.87 | 0.57 | 0.19 | 0.02 | - | - | - | - | 4.50 |
| 100 | - | - | 0.02 | 0.07 | 0.01 | 0.01 | - | - | - | - | - | - | - | 0.11 |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | 0.01 | 0.01 | 0.02 | - | - | - | - | - | - | - | - | - | 0.03 |
| 240 | - | - | - | 0.03 | 0.02 | - | - | - | - | - | - | - | - | 0.06 |
| 250 | - | - | 0.04 | 0.06 | 0.05 | 0.02 | - | - | - | - | - | - | - | 0.17 |
| 260 | - | - | 0.02 | 0.02 | 0.04 | 0.02 | 0.01 | 0.01 | - | - | - | - | - | 0.12 |
| 270 | - | - | 0.02 | 0.02 | 0.04 | 0.01 | 0.02 | - | - | - | - | - | - | 0.10 |
| 280 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 290 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.01 | 0.25 | 2.04 | 3.85 | 3.00 | 2.03 | 0.86 | 0.65 | 0.35 | 0.50 | 0.06 | 0.02 | 13.62 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 4.47%).

The maximum wind speed (>70 knots) corresponds to the Hurricane according to “Beaufort wind force scale” (frequency of occurrence – 0.02%).

The direction of maximum wind gusts is 070º.

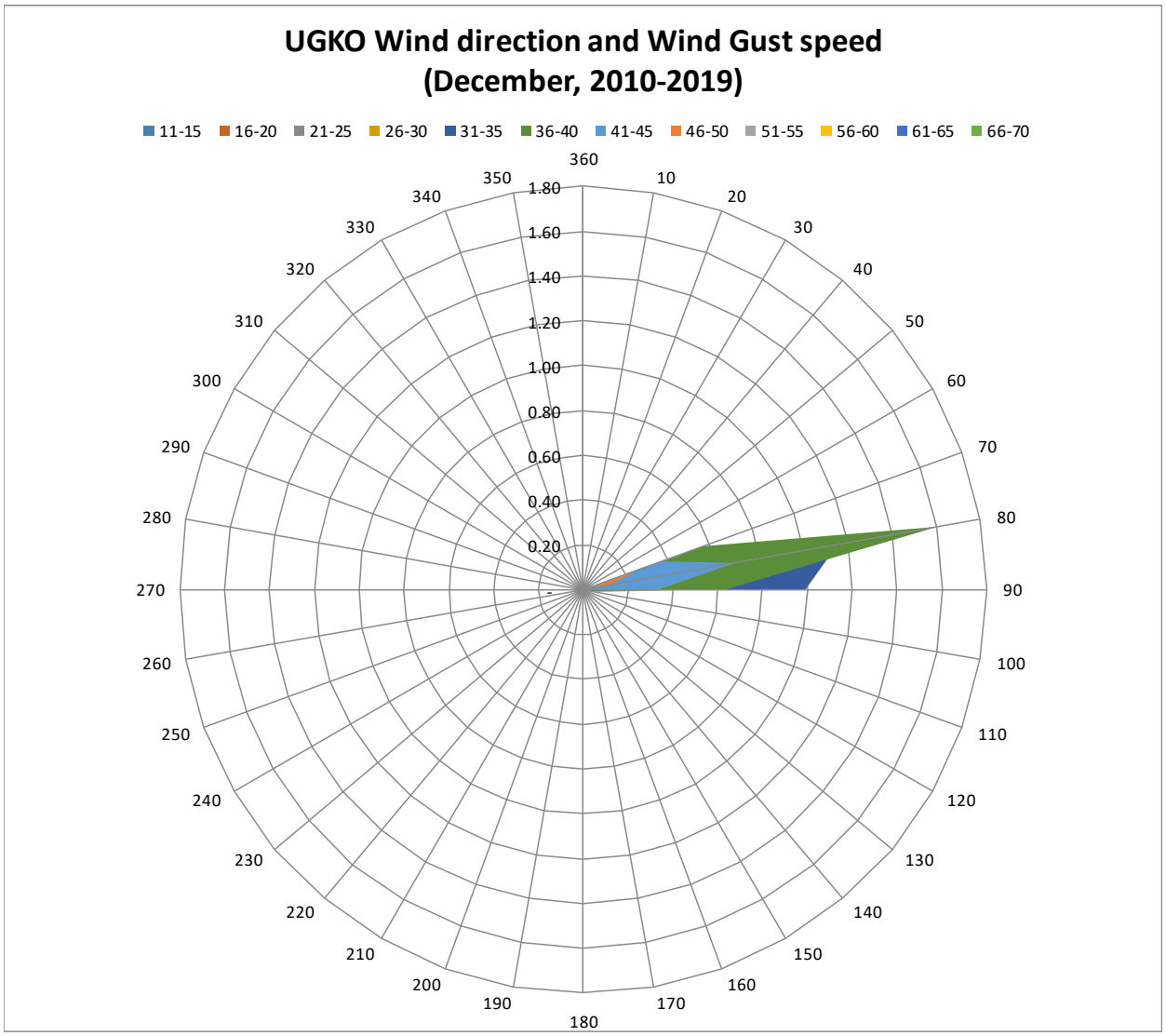
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | 0.02 |
| 70 | - | - | - | 0.09 | 0.29 | 0.57 | 0.37 | 0.25 | 0.17 | - | - | - | - | 1.74 |
| 80 | - | - | 0.05 | 0.60 | 1.15 | 1.61 | 0.69 | 0.12 | 0.04 | 0.01 | - | - | - | 4.26 |
| 90 | - | 0.02 | 0.12 | 0.61 | 0.99 | 0.64 | 0.34 | 0.01 | - | - | - | - | - | 2.74 |
| 100 | - | - | 0.02 | 0.05 | 0.02 | 0.01 | - | - | - | - | - | - | - | 0.10 |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | 0.01 | - | - | - | - | - | - | - | - | - | - | 0.01 |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | 0.02 | 0.01 | 0.01 | 0.01 | - | - | - | - | - | - | - | 0.05 |
| 240 | - | - | 0.01 | 0.03 | - | 0.02 | - | - | - | - | - | - | - | 0.05 |
| 250 | - | - | 0.02 | 0.04 | 0.04 | - | - | - | - | - | - | - | - | 0.09 |
| 260 | - | - | - | 0.01 | - | - | - | - | - | - | - | - | - | 0.01 |
| 270 | - | - | 0.01 | 0.02 | - | - | - | - | - | - | - | - | - | 0.02 |
| 280 | - | - | - | 0.01 | 0.01 | - | - | - | - | - | - | - | - | 0.02 |
| 290 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.02 | 0.25 | 1.46 | 2.52 | 2.86 | 1.40 | 0.37 | 0.21 | 0.01 | - | - | - | 9.10 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 1.99%).

The maximum wind speed (56-60 knots) corresponds to the Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.01%).

The direction of maximum wind gusts is 080º.

## AERONAUTICAL CLIMATOLOGY

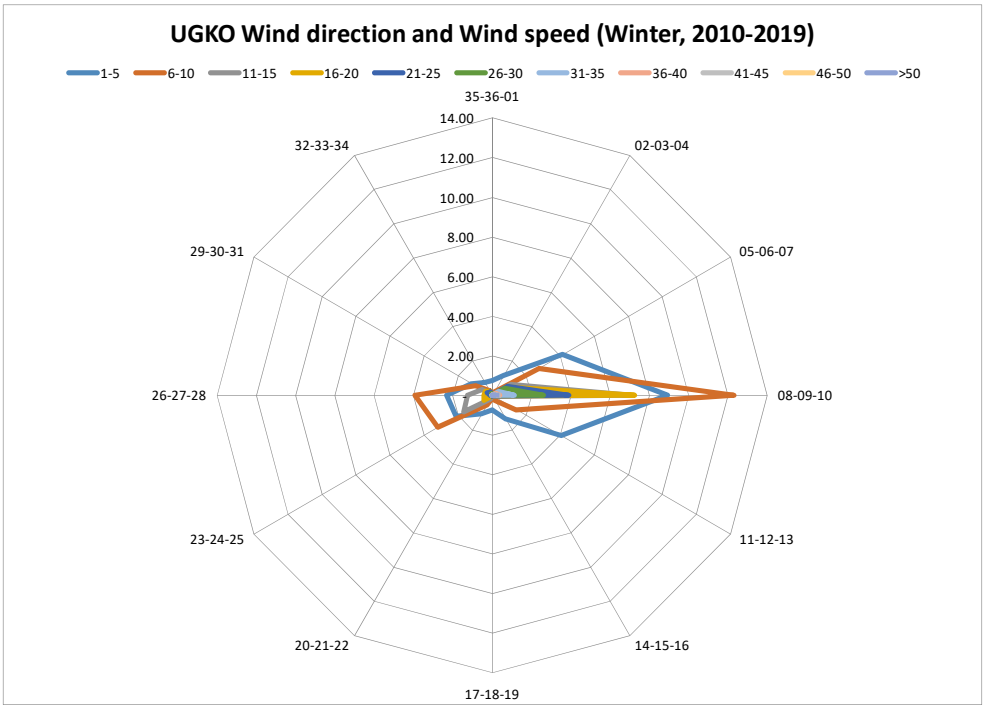
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO SEASON: WINTER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 36792 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 3.674 |
| VARIABLE | 7.777 | 0.183 | - | 0.005 | - | - | - | - | - | - | - | 7.966 |
| 35-36-01 | 0.749 | 0.139 | 0.005 | - | - | - | - | - | - | - | - | 0.894 |
| 02-03-04 | 1.178 | 0.191 | - | - | - | - | - | - | - | - | - | 1.370 |
| 05-06-07 | 4.130 | 2.747 | 1.110 | 0.894 | 0.908 | 0.752 | 0.383 | 0.238 | 0.052 | - | 0.003 | 11.216 |
| 08-09-10 | 8.914 | 12.304 | 6.990 | 7.263 | 3.895 | 2.600 | 1.118 | 0.377 | 0.268 | 0.123 | 0.178 | 44.030 |
| 11-12-13 | 4.043 | 1.424 | 0.131 | 0.041 | 0.011 | - | - | - | - | - | - | 5.650 |
| 14-15-16 | 1.350 | 0.271 | 0.003 | 0.011 | 0.003 | - | - | - | - | - | - | 1.637 |
| 17-18-19 | 0.727 | 0.134 | 0.011 | - | - | - | - | - | - | - | - | 0.872 |
| 20-21-22 | 1.069 | 0.547 | 0.194 | 0.016 | - | - | - | - | - | - | - | 1.826 |
| 23-24-25 | 2.113 | 3.212 | 1.657 | 0.495 | 0.041 | - | - | - | - | - | - | 7.517 |
| 26-27-28 | 2.326 | 3.936 | 1.268 | 0.435 | 0.096 | 0.003 | - | - | - | - | - | 8.064 |
| 29-30-31 | 1.211 | 0.987 | 0.593 | 0.424 | 0.303 | 0.046 | 0.016 | - | - | - | - | 3.581 |
| 32-33-34 | 0.744 | 0.287 | 0.126 | 0.241 | 0.205 | 0.087 | 0.014 | - | - | - | - | 1.703 |
| TOTAL | 36.332 | 26.363 | 12.088 | 9.825 | 5.462 | 3.488 | 1.531 | 0.615 | 0.320 | 0.123 | 0.180 | 100 |




**CALM**
3.67%

**VARIABLE**
7.97%

The prevailing wind directions of 080º-100º frequency of occurrence is 44.03%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 62.69%).

The maximum wind of >50 knots is observed within the 080º-100º sector (frequency of occurrence 0.18%).

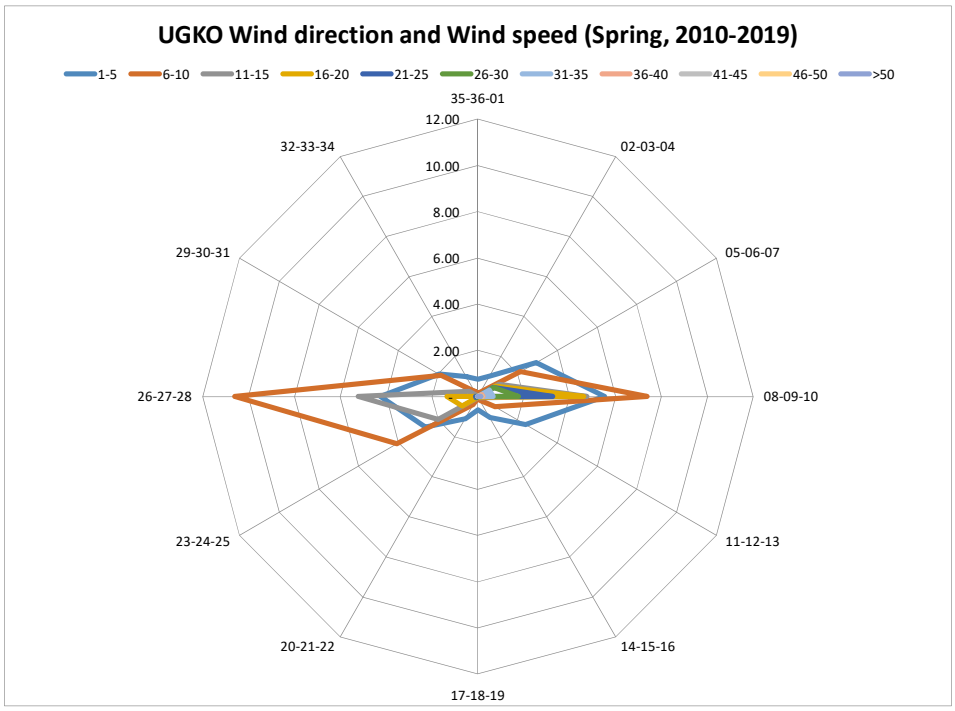
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO SEASON: SPRING PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 37536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 4.106 |
| VARIABLE | 11.309 | 0.583 | 0.021 | 0.005 | - | - | - | - | - | - | - | 11.919 |
| 35-36-01 | 0.764 | 0.162 | 0.008 | 0.003 | - | - | - | - | - | - | - | 0.937 |
| 02-03-04 | 1.030 | 0.224 | 0.024 | 0.003 | - | - | - | - | - | - | - | 1.280 |
| 05-06-07 | 2.940 | 2.150 | 1.070 | 0.881 | 0.774 | 0.801 | 0.585 | 0.181 | 0.013 | - | - | 9.396 |
| 08-09-10 | 5.535 | 7.390 | 4.761 | 4.627 | 3.260 | 1.759 | 0.665 | 0.216 | 0.160 | 0.157 | 0.149 | 28.677 |
| 11-12-13 | 2.382 | 0.862 | 0.101 | 0.048 | - | - | - | - | - | - | - | 3.393 |
| 14-15-16 | 1.043 | 0.184 | 0.013 | 0.005 | - | - | - | - | - | - | - | 1.245 |
| 17-18-19 | 0.559 | 0.080 | 0.005 | - | - | - | - | - | - | - | - | 0.644 |
| 20-21-22 | 1.118 | 0.415 | 0.080 | 0.016 | - | - | - | - | - | - | - | 1.629 |
| 23-24-25 | 2.650 | 4.071 | 1.990 | 0.798 | 0.106 | 0.029 | - | - | - | - | - | 9.646 |
| 26-27-28 | 4.239 | 10.604 | 5.224 | 1.362 | 0.098 | 0.021 | - | - | - | - | - | 21.549 |
| 29-30-31 | 1.940 | 1.841 | 0.444 | 0.045 | - | - | - | - | - | - | - | 4.271 |
| 32-33-34 | 1.003 | 0.258 | 0.043 | 0.005 | - | - | - | - | - | - | - | 1.309 |
| TOTAL | 36.511 | 28.824 | 13.784 | 7.799 | 4.239 | 2.610 | 1.251 | 0.396 | 0.173 | 0.157 | 0.149 | 100 |




**CALM**
4.11%

**VARIABLE**
11.92%

The prevailing wind directions of 080º-100º frequency of occurrence is 28.68%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 65.33%).

The maximum wind of >50 knots is observed within the 080º-100º sector (frequency of occurrence 0.15%).

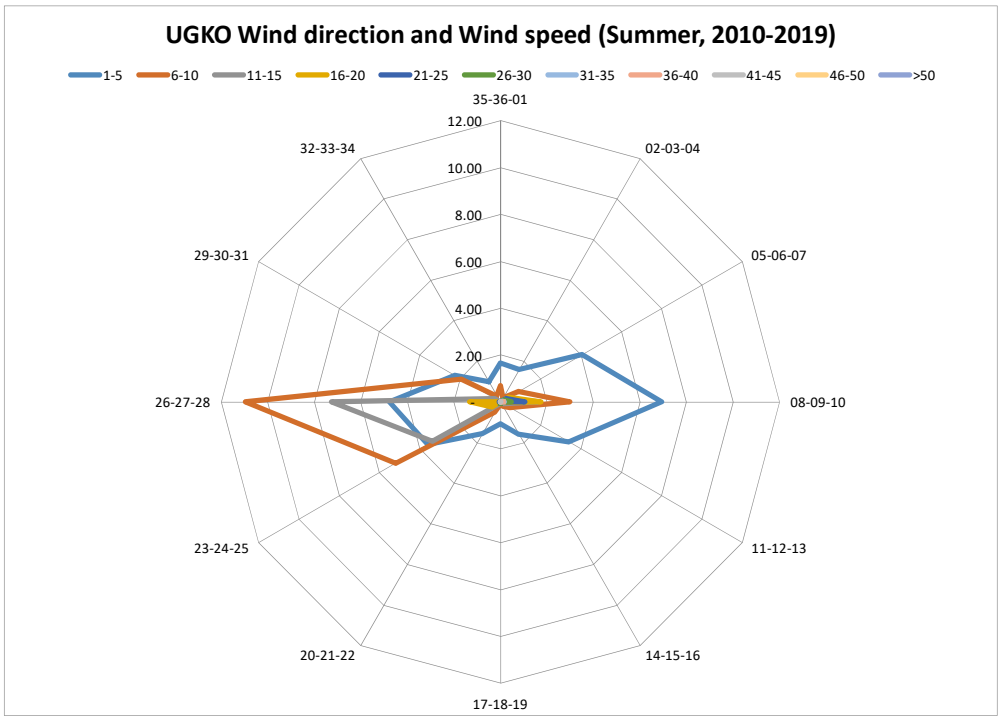
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO SEASON: SUMMER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 37536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 5.968 |
| VARIABLE | 16.155 | 0.467 | 0.021 | 0.003 | - | - | - | - | - | - | - | 16.646 |
| 35-36-01 | 1.675 | 0.696 | 0.013 | 0.003 | - | - | - | - | - | - | - | 2.388 |
| 02-03-04 | 1.619 | 0.216 | 0.016 | 0.005 | - | - | - | - | - | - | - | 1.857 |
| 05-06-07 | 4.044 | 0.904 | 0.280 | 0.424 | 0.299 | 0.203 | 0.093 | 0.019 | - | - | - | 6.266 |
| 08-09-10 | 6.923 | 2.977 | 1.635 | 1.739 | 1.062 | 0.470 | 0.168 | 0.072 | 0.024 | - | - | 15.070 |
| 11-12-13 | 3.385 | 0.470 | 0.123 | 0.005 | 0.003 | - | - | - | - | - | - | 3.985 |
| 14-15-16 | 1.569 | 0.197 | 0.013 | 0.011 | 0.003 | 0.003 | - | - | - | - | - | 1.795 |
| 17-18-19 | 0.920 | 0.093 | 0.008 | - | - | - | - | - | - | - | - | 1.022 |
| 20-21-22 | 1.550 | 0.488 | 0.083 | - | - | - | - | - | - | - | - | 2.121 |
| 23-24-25 | 3.609 | 5.205 | 3.369 | 0.416 | 0.016 | - | - | - | - | - | - | 12.615 |
| 26-27-28 | 4.786 | 10.956 | 7.261 | 1.336 | 0.053 | 0.005 | - | - | - | - | - | 24.398 |
| 29-30-31 | 2.270 | 1.947 | 0.277 | 0.024 | - | - | - | - | - | - | - | 4.519 |
| 32-33-34 | 1.008 | 0.315 | 0.027 | - | - | - | - | - | - | - | - | 1.350 |
| TOTAL | 49.514 | 24.932 | 13.128 | 3.967 | 1.435 | 0.680 | 0.261 | 0.091 | 0.024 | - | - | 100 |




**CALM**
5.97%

**VARIABLE**
16.65%

The prevailing wind directions of 260º-280º frequency of occurrence is 24.40%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 74.44%).

The maximum wind of 41-45 knots is observed within the 080º-100º sector (frequency of occurrence 0.02%).

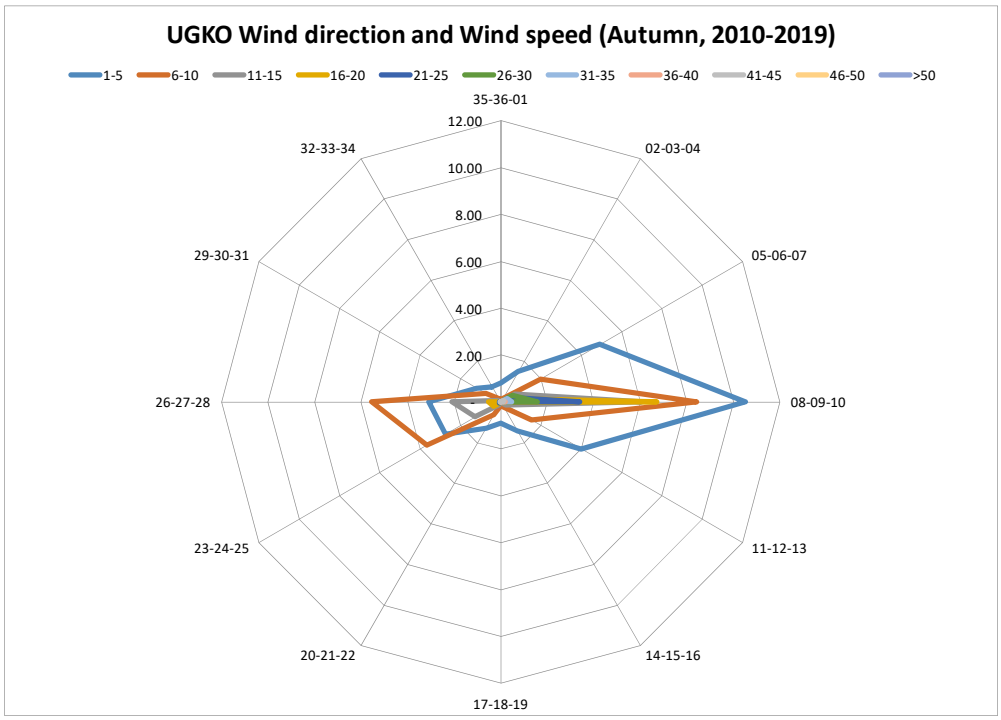
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO SEASON: AUTUMN PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 37128 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 4.906 |
| VARIABLE | 12.038 | 0.301 | - | - | - | - | - | - | - | - | - | 12.339 |
| 35-36-01 | 0.805 | 0.113 | 0.008 | - | - | - | - | - | - | - | - | 0.926 |
| 02-03-04 | 1.503 | 0.185 | 0.011 | - | - | - | - | - | - | - | - | 1.699 |
| 05-06-07 | 4.923 | 1.984 | 0.690 | 0.295 | 0.416 | 0.564 | 0.303 | 0.134 | 0.158 | 0.013 | - | 9.480 |
| 08-09-10 | 10.519 | 8.423 | 6.055 | 6.702 | 3.409 | 1.584 | 0.475 | 0.199 | 0.099 | 0.005 | - | 37.469 |
| 11-12-13 | 3.994 | 1.535 | 0.260 | 0.048 | 0.003 | - | - | - | - | - | - | 5.841 |
| 14-15-16 | 1.431 | 0.236 | 0.013 | 0.003 | - | - | - | - | - | - | - | 1.683 |
| 17-18-19 | 0.899 | 0.148 | 0.008 | 0.003 | - | - | - | - | - | - | - | 1.058 |
| 20-21-22 | 1.294 | 0.623 | 0.142 | 0.024 | 0.003 | - | - | - | - | - | - | 2.086 |
| 23-24-25 | 2.746 | 3.672 | 1.262 | 0.341 | 0.067 | 0.019 | - | - | - | - | - | 8.106 |
| 26-27-28 | 3.087 | 5.548 | 2.102 | 0.537 | 0.062 | 0.013 | 0.024 | 0.005 | - | - | - | 11.378 |
| 29-30-31 | 1.181 | 0.735 | 0.126 | 0.032 | - | - | - | - | - | - | - | 2.075 |
| 32-33-34 | 0.754 | 0.177 | 0.021 | 0.003 | - | - | - | - | - | - | - | 0.956 |
| TOTAL | 45.173 | 23.679 | 10.699 | 7.988 | 3.959 | 2.179 | 0.803 | 0.338 | 0.258 | 0.019 | - | 100 |




**CALM**
4.91%

**VARIABLE**
12.34%

The prevailing wind directions of 080º-100º frequency of occurrence is 37.47%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 68.85%).

The maximum wind of 46-50 knots is observed within the 050º-070º and 080º-100º sectors (frequency of occurrence 0.02%).

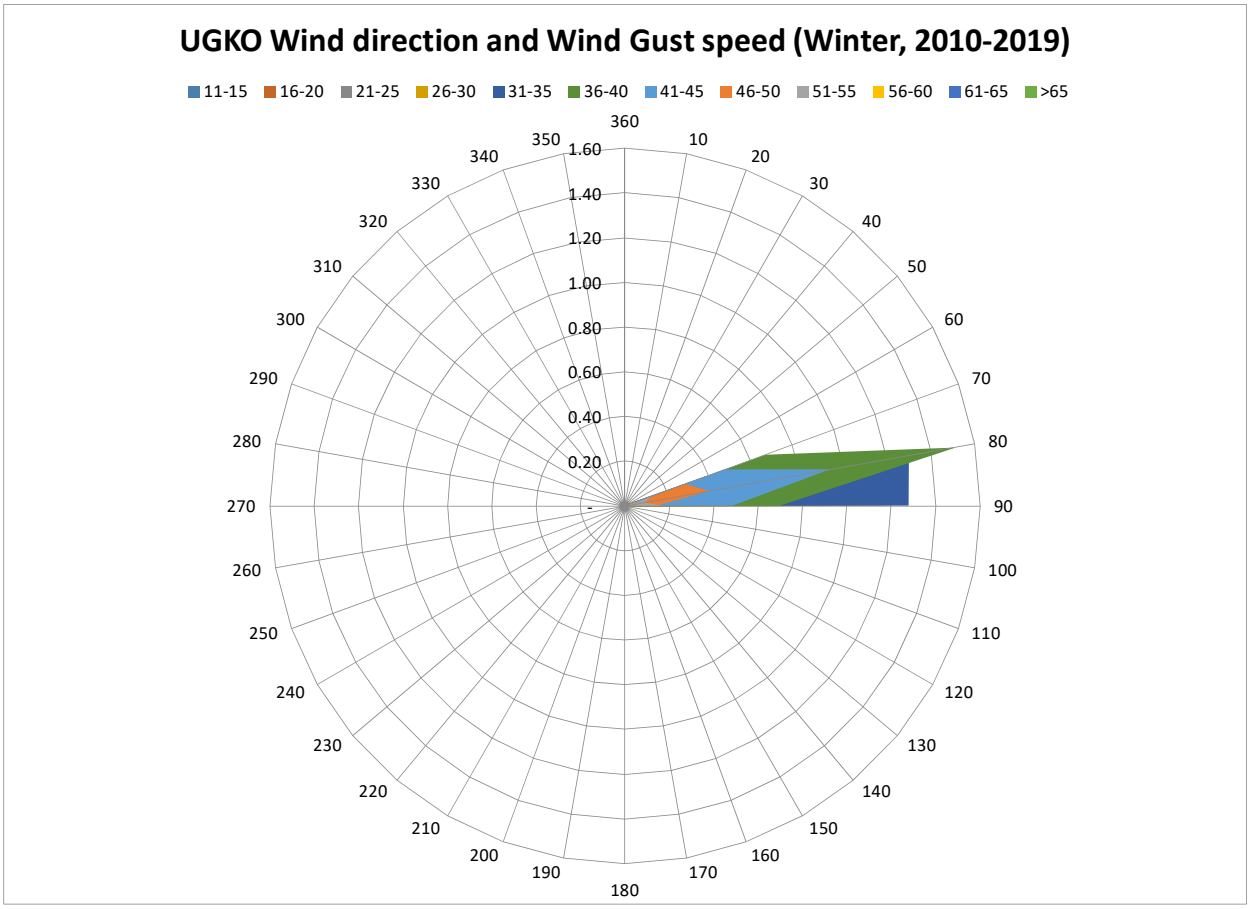
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO SEASON: WINTER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 36792 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | 0.003 | - | 0.003 | - | 0.003 | - | - | - | - | - | - | - | 0.008 |
| 60 | - | - | - | 0.011 | 0.011 | 0.011 | 0.005 | 0.003 | - | - | - | - | - | 0.041 |
| 70 | - | - | 0.011 | 0.112 | 0.385 | 0.672 | 0.476 | 0.287 | 0.131 | 0.049 | - | - | - | 2.124 |
| 80 | - | 0.003 | 0.038 | 0.536 | 1.301 | 1.512 | 0.938 | 0.385 | 0.087 | 0.025 | - | - | - | 4.825 |
| 90 | 0.005 | 0.030 | 0.549 | 1.189 | 1.279 | 0.692 | 0.481 | 0.139 | 0.178 | 0.003 | - | - | - | 4.546 |
| 100 | - | 0.003 | 0.014 | 0.038 | 0.016 | 0.003 | 0.003 | - | - | - | - | - | - | 0.077 |
| 110 | - | - | 0.003 | 0.005 | - | - | - | - | - | - | - | - | - | 0.008 |
| 120 | - | - | 0.003 | - | 0.003 | - | - | - | - | - | - | - | - | 0.005 |
| 130 | - | - | - | - | 0.003 | - | - | - | - | - | - | - | - | 0.003 |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.003 |
| 190 | - | - | 0.003 | - | - | - | - | - | - | - | - | - | - | 0.003 |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | 0.003 | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.005 |
| 220 | - | - | 0.003 | 0.008 | - | - | - | - | - | - | - | - | - | 0.011 |
| 230 | - | - | 0.014 | 0.016 | 0.005 | 0.003 | - | - | - | - | - | - | - | 0.038 |
| 240 | - | 0.003 | 0.005 | 0.016 | 0.011 | 0.005 | - | - | - | - | - | - | - | 0.041 |
| 250 | - | - | 0.014 | 0.057 | 0.025 | - | - | - | - | - | - | - | - | 0.096 |
| 260 | - | - | 0.003 | 0.008 | 0.019 | 0.003 | - | - | - | - | - | - | - | 0.033 |
| 270 | - | - | 0.014 | 0.008 | 0.022 | - | - | - | - | - | - | - | - | 0.044 |
| 280 | - | - | - | 0.005 | 0.016 | 0.008 | - | - | - | - | - | - | - | 0.030 |
| 290 | - | 0.003 | - | - | - | - | - | - | - | - | - | - | - | 0.003 |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.003 |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.005 | 0.046 | 0.672 | 2.023 | 3.097 | 2.911 | 1.903 | 0.815 | 0.396 | 0.077 | - | - | - | 11.946 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 3.19%).

The maximum wind speed (56-60 knots) corresponds to the Violent storm according to “Beaufort wind force scale” (frequency of occurrence – 0.077%).

The directions of maximum wind gusts are 070º, 080º and 090º.

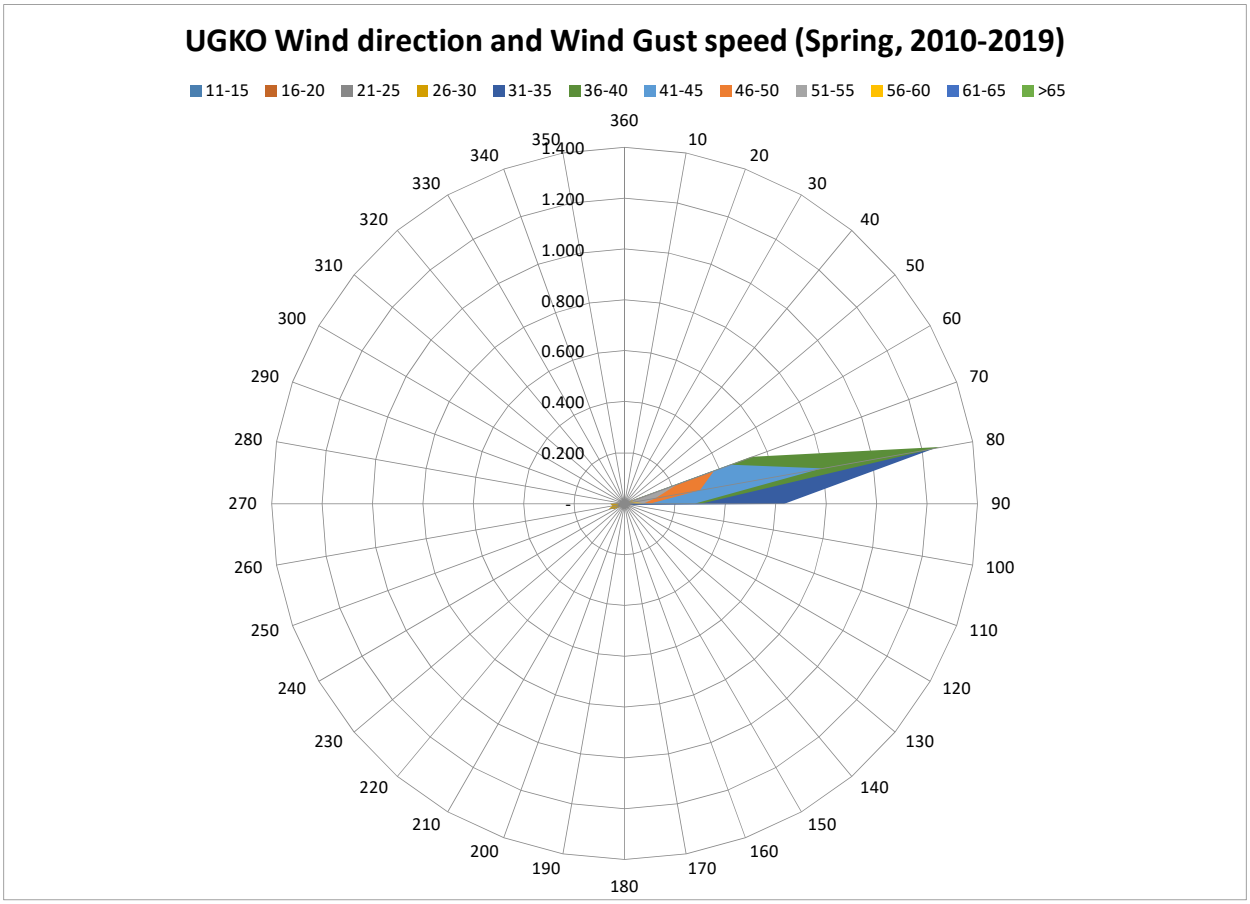
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO SEASON: SPRING PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 37536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.003 |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.003 |
| 50 | - | - | - | - | 0.003 | - | - | - | - | - | - | - | - | 0.003 |
| 60 | - | 0.003 | - | 0.005 | 0.003 | 0.008 | 0.005 | - | - | - | - | - | - | 0.024 |
| 70 | - | - | 0.005 | 0.101 | 0.373 | 0.535 | 0.444 | 0.375 | 0.224 | 0.037 | 0.003 | - | - | 2.097 |
| 80 | - | 0.003 | 0.029 | 0.373 | 1.256 | 1.275 | 0.793 | 0.303 | 0.128 | 0.032 | 0.011 | - | - | 4.202 |
| 90 | - | 0.011 | 0.170 | 0.495 | 0.633 | 0.309 | 0.279 | 0.106 | 0.077 | 0.082 | 0.051 | 0.013 | - | 2.227 |
| 100 | - | - | 0.005 | 0.019 | 0.027 | - | 0.005 | - | - | - | - | - | - | 0.056 |
| 110 | - | 0.008 | 0.003 | 0.008 | - | - | - | - | - | - | - | - | - | 0.019 |
| 120 | - | 0.003 | 0.008 | - | - | - | - | - | - | - | - | - | - | 0.011 |
| 130 | - | - | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.003 |
| 140 | - | - | 0.003 | - | - | - | - | - | - | - | - | - | - | 0.003 |
| 150 | - | - | - | - | - | 0.003 | - | - | - | - | - | - | - | 0.003 |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | 0.005 | - | - | - | - | - | - | - | - | - | - | 0.005 |
| 190 | - | - | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.003 |
| 200 | - | - | - | - | 0.003 | - | - | - | - | - | - | - | - | 0.003 |
| 210 | - | - | - | 0.008 | - | - | - | - | - | - | - | - | - | 0.008 |
| 220 | - | 0.003 | - | 0.003 | 0.003 | - | - | - | - | - | - | - | - | 0.008 |
| 230 | - | - | 0.008 | 0.021 | 0.008 | - | 0.003 | - | - | - | - | - | - | 0.040 |
| 240 | - | - | 0.008 | 0.043 | 0.011 | 0.019 | 0.005 | - | - | - | - | - | - | 0.085 |
| 250 | - | - | 0.016 | 0.064 | 0.032 | 0.021 | 0.008 | 0.003 | - | - | - | - | - | 0.144 |
| 260 | - | - | 0.016 | 0.048 | 0.021 | 0.008 | - | - | - | - | - | - | - | 0.093 |
| 270 | - | - | 0.051 | 0.056 | 0.027 | 0.003 | - | - | - | - | - | - | - | 0.136 |
| 280 | - | - | 0.005 | 0.005 | 0.003 | - | - | - | - | - | - | - | - | 0.013 |
| 290 | - | - | - | 0.008 | 0.003 | - | - | - | - | - | - | - | - | 0.011 |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.029 | 0.333 | 1.267 | 2.403 | 2.179 | 1.543 | 0.788 | 0.428 | 0.152 | 0.064 | 0.013 | - | 9.199 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 2.988%).

The maximum wind speed (66-70 knots) corresponds to the Hurricane according to “Beaufort wind force scale” (frequency of occurrence – 0.013%).

The direction of maximum wind gusts is 090º.

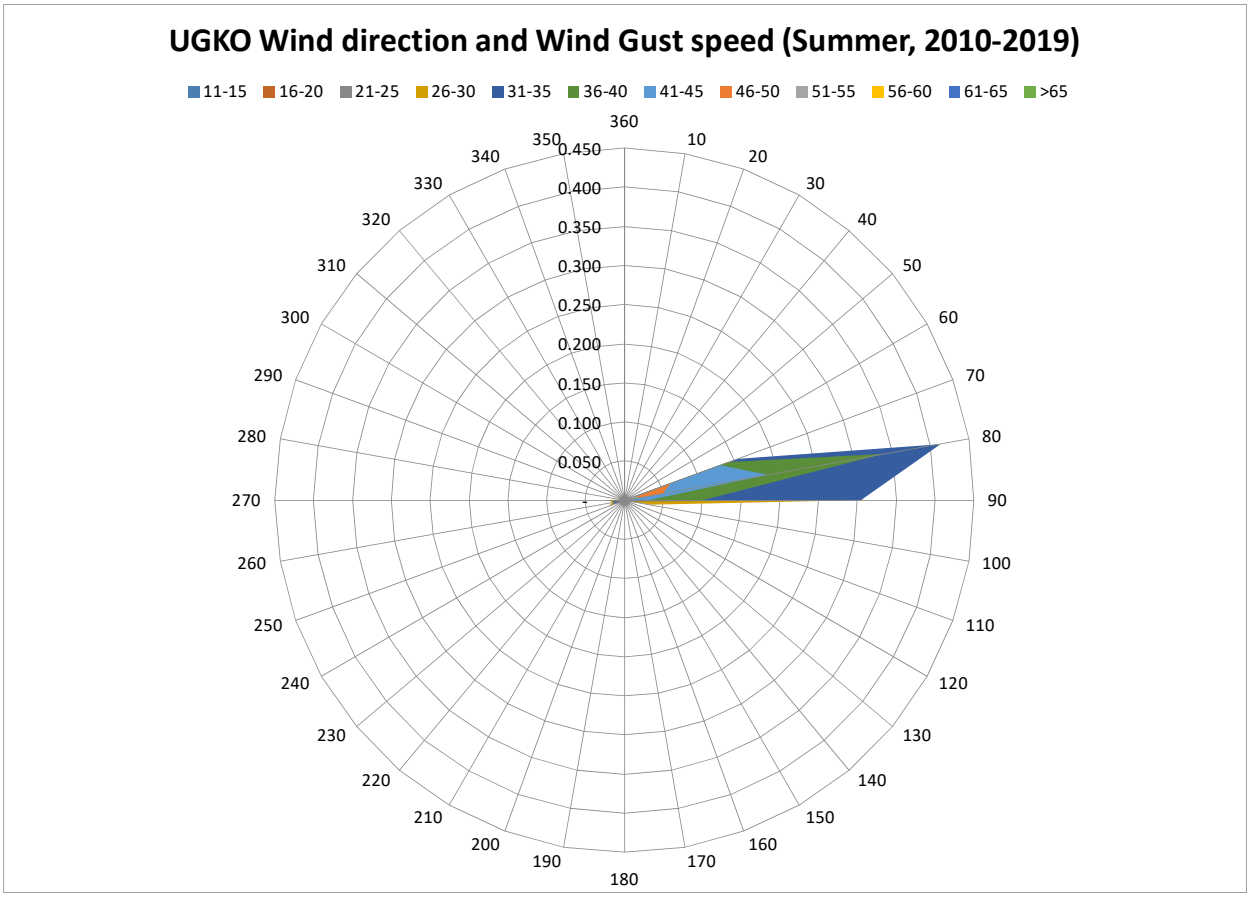
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO SEASON: SUMMER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 37536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.003 |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | 0.005 | 0.003 | - | - | - | - | - | - | - | 0.008 |
| 70 | - | - | 0.008 | 0.077 | 0.155 | 0.141 | 0.131 | 0.064 | 0.016 | - | - | - | - | 0.592 |
| 80 | - | - | 0.019 | 0.173 | 0.413 | 0.339 | 0.187 | 0.051 | 0.019 | - | - | - | - | 1.200 |
| 90 | - | 0.024 | 0.115 | 0.309 | 0.304 | 0.099 | 0.032 | - | - | - | - | - | - | 0.883 |
| 100 | - | - | 0.019 | 0.035 | 0.005 | - | - | - | - | - | - | - | - | 0.059 |
| 110 | - | - | 0.003 | 0.003 | - | - | - | - | - | - | - | - | - | 0.005 |
| 120 | - | 0.003 | 0.003 | 0.003 | 0.003 | - | - | - | - | - | - | - | - | 0.011 |
| 130 | - | - | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.003 |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | 0.003 | 0.003 | - | - | - | - | - | - | - | - | - | 0.005 |
| 240 | - | 0.003 | 0.003 | 0.005 | 0.003 | - | - | - | - | - | - | - | - | 0.013 |
| 250 | - | - | 0.011 | 0.021 | 0.013 | - | - | - | - | - | - | - | - | 0.045 |
| 260 | - | - | 0.005 | 0.016 | 0.016 | 0.003 | - | 0.003 | - | - | - | - | - | 0.043 |
| 270 | - | - | 0.024 | 0.021 | 0.013 | - | - | - | - | - | - | - | - | 0.059 |
| 280 | - | 0.003 | 0.003 | 0.005 | - | - | - | - | - | - | - | - | - | 0.011 |
| 290 | - | 0.003 | 0.003 | - | - | - | - | - | - | - | - | - | - | 0.005 |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | 0.003 | - | - | - | - | - | - | - | - | - | - | - | 0.003 |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.037 | 0.216 | 0.678 | 0.931 | 0.584 | 0.349 | 0.117 | 0.035 | - | - | - | - | 2.948 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 0.501%).

The maximum wind speed (51-55 knots) corresponds to the Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.035%).

The direction of maximum wind gusts are 070º and 080º.

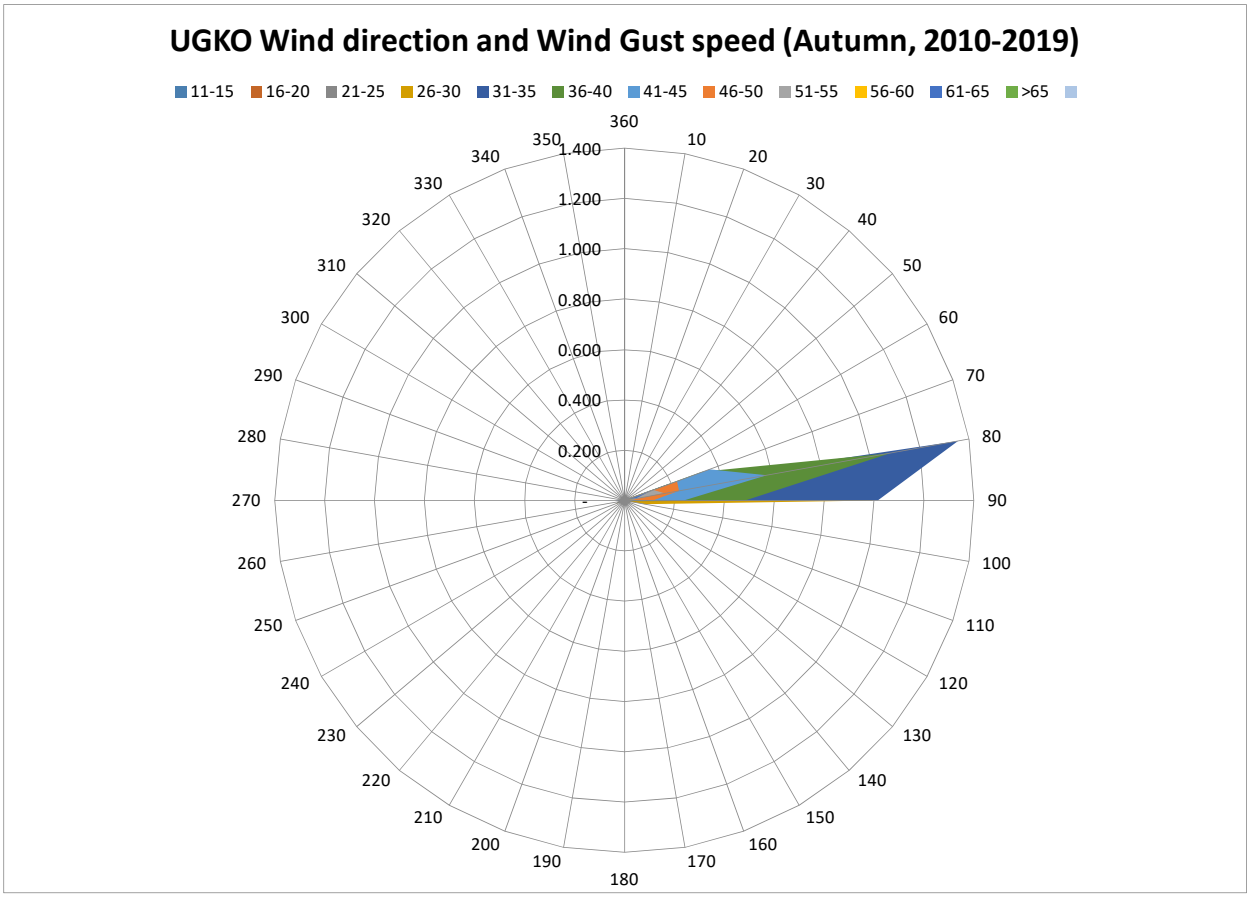
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGKO SEASON: AUTUMN PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 37128 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | >70 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | 0.011 | 0.008 | 0.003 | - | - | - | - | - | - | 0.021 |
| 70 | - | - | 0.005 | 0.046 | 0.185 | 0.333 | 0.362 | 0.223 | 0.121 | 0.086 | 0.115 | 0.016 | 0.005 | 1.498 |
| 80 | - | - | 0.051 | 0.644 | 1.355 | 1.082 | 0.580 | 0.220 | 0.161 | 0.032 | 0.051 | 0.005 | - | 4.182 |
| 90 | - | 0.005 | 0.107 | 0.998 | 1.015 | 0.486 | 0.239 | 0.118 | 0.027 | 0.032 | - | - | - | 3.028 |
| 100 | - | - | 0.032 | 0.083 | 0.016 | 0.003 | - | - | - | - | - | - | - | 0.134 |
| 110 | - | - | 0.003 | - | - | - | - | - | - | - | - | - | - | 0.003 |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | 0.003 | - | - | - | - | - | - | - | - | - | - | 0.003 |
| 170 | - | - | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.003 |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.003 |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | 0.003 | - | - | - | - | - | - | 0.003 |
| 220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | 0.003 | 0.003 | 0.008 | - | 0.003 | - | - | - | - | - | - | - | 0.016 |
| 240 | - | 0.003 | 0.003 | 0.013 | 0.011 | 0.011 | - | - | - | - | - | - | - | 0.040 |
| 250 | - | - | 0.021 | 0.038 | 0.035 | 0.013 | 0.003 | - | - | - | - | - | - | 0.110 |
| 260 | - | - | 0.013 | 0.021 | 0.019 | 0.008 | 0.003 | 0.003 | - | - | - | - | - | 0.067 |
| 270 | - | - | 0.011 | 0.024 | 0.035 | 0.008 | 0.005 | - | - | - | - | - | - | 0.083 |
| 280 | - | - | 0.003 | 0.005 | 0.008 | - | - | - | - | - | - | - | - | 0.016 |
| 290 | - | - | 0.003 | - | - | - | - | - | - | - | - | - | - | 0.003 |
| 300 | - | - | - | 0.003 | - | - | - | - | - | - | - | - | - | 0.003 |
| 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | 0.003 | - | - | - | - | - | - | - | - | - | - | 0.003 |
| 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | - | 0.003 | - | - | - | - | - | - | - | - | - | - | - | 0.003 |
| 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.013 | 0.260 | 1.890 | 2.689 | 1.954 | 1.197 | 0.564 | 0.309 | 0.150 | 0.166 | 0.021 | 0.005 | 9.220 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 2.412%).

The maximum wind speed (>70 knots) corresponds to the Hurricane according to “Beaufort wind force scale” (frequency of occurrence – 0.01%).

The direction of maximum wind gusts is 070º.

**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

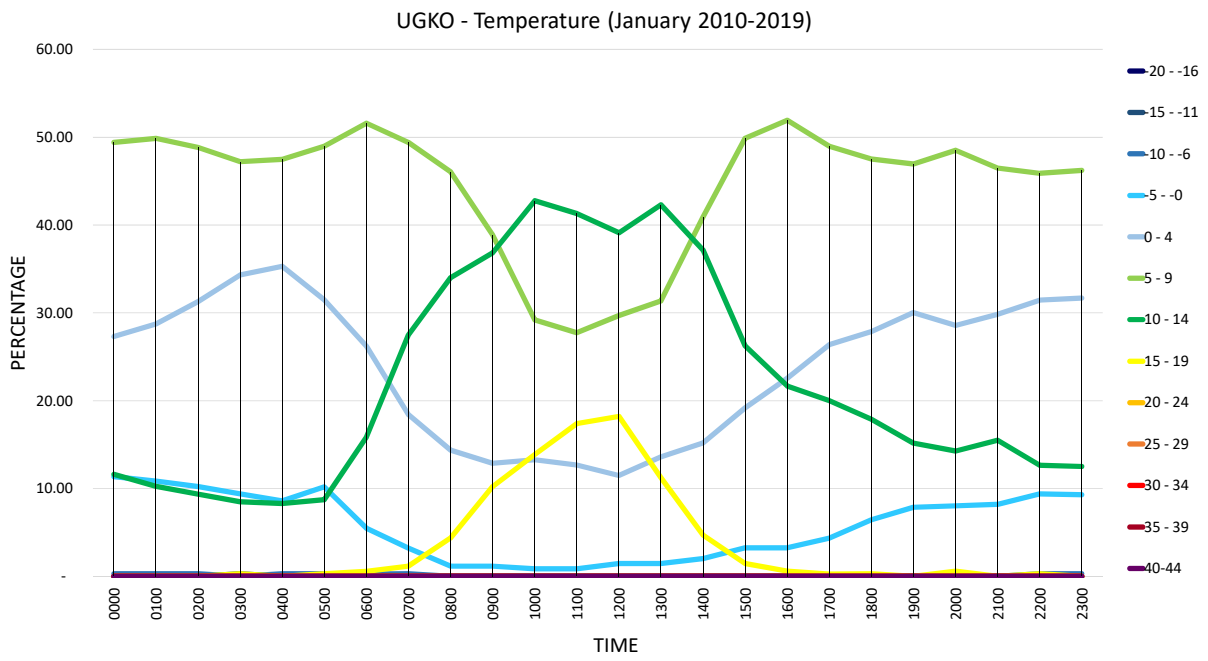
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | 0.29 | 11.34 | 27.33 | 49.42 | 11.63 | - | - | - | - | - | - |
| 0100 | - | - | 0.29 | 10.85 | 28.74 | 49.85 | 10.26 | - | - | - | - | - | - |
| 0200 | - | - | 0.29 | 10.23 | 31.29 | 48.83 | 9.36 | - | - | - | - | - | - |
| 0300 | - | 0.29 | - | 9.38 | 34.31 | 47.21 | 8.50 | 0.29 | - | - | - | - | - |
| 0400 | - | - | 0.30 | 8.61 | 35.31 | 47.48 | 8.31 | - | - | - | - | - | - |
| 0500 | - | - | 0.29 | 10.20 | 31.49 | 48.98 | 8.75 | 0.29 | - | - | - | - | - |
| 0600 | - | - | 0.29 | 5.48 | 26.22 | 51.59 | 15.85 | 0.58 | - | - | - | - | - |
| 0700 | - | - | 0.29 | 3.22 | 18.42 | 49.42 | 27.49 | 1.17 | - | - | - | - | - |
| 0800 | - | - | - | 1.17 | 14.37 | 46.04 | 34.02 | 4.40 | - | - | - | - | - |
| 0900 | - | - | - | 1.17 | 12.87 | 38.89 | 36.84 | 10.23 | - | - | - | - | - |
| 1000 | - | - | - | 0.88 | 13.27 | 29.20 | 42.77 | 13.86 | - | - | - | - | - |
| 1100 | - | - | - | 0.88 | 12.68 | 27.73 | 41.30 | 17.40 | - | - | - | - | - |
| 1200 | - | - | - | 1.47 | 11.47 | 29.71 | 39.12 | 18.24 | - | - | - | - | - |
| 1300 | - | - | - | 1.48 | 13.61 | 31.36 | 42.31 | 11.24 | - | - | - | - | - |
| 1400 | - | - | - | 2.05 | 15.20 | 40.94 | 37.13 | 4.68 | - | - | - | - | - |
| 1500 | - | - | - | 3.24 | 19.17 | 49.85 | 26.25 | 1.47 | - | - | - | - | - |
| 1600 | - | - | - | 3.26 | 22.55 | 51.93 | 21.66 | 0.59 | - | - | - | - | - |
| 1700 | - | - | - | 4.35 | 26.38 | 48.99 | 20.00 | 0.29 | - | - | - | - | - |
| 1800 | - | - | - | 6.45 | 27.86 | 47.51 | 17.89 | 0.29 | - | - | - | - | - |
| 1900 | - | - | - | 7.87 | 30.03 | 46.94 | 15.16 | - | - | - | - | - | - |
| 2000 | - | - | - | 8.04 | 28.57 | 48.51 | 14.29 | 0.60 | - | - | - | - | - |
| 2100 | - | - | - | 8.19 | 29.82 | 46.49 | 15.50 | - | - | - | - | - | - |
| 2200 | - | - | 0.29 | 9.41 | 31.47 | 45.88 | 12.65 | 0.29 | - | - | - | - | - |
| 2300 | - | - | 0.29 | 9.30 | 31.69 | 46.22 | 12.50 | - | - | - | - | - | - |
| MEAN | - | 0.01 | 0.11 | 5.77 | 23.92 | 44.54 | 22.06 | 3.58 | - | - | - | - | - |

Min temperature -15º to -11º (time 0300 UTC) – 0.29%

Max temperature 15º to 19º (time 1200 UTC) – 18.24%

Mean dominating temperature 5º to 9º – 44.54%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 6768 OBSERVATION INTERVAL: 1 HOUR

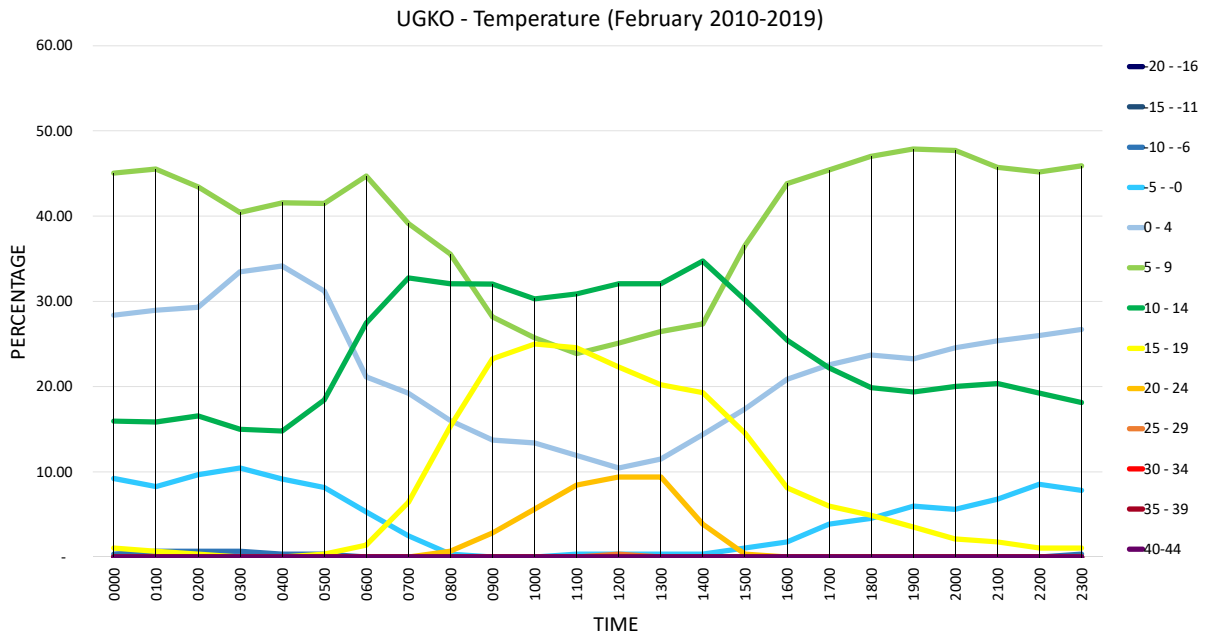
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | 0.35 | 9.22 | 28.37 | 45.04 | 15.96 | 1.06 | - | - | - | - | - |
| 0100 | - | - | 0.69 | 8.28 | 28.97 | 45.52 | 15.86 | 0.69 | - | - | - | - | - |
| 0200 | - | - | 0.69 | 9.66 | 29.31 | 43.45 | 16.55 | 0.34 | - | - | - | - | - |
| 0300 | - | - | 0.70 | 10.45 | 33.45 | 40.42 | 14.98 | - | - | - | - | - | - |
| 0400 | - | - | 0.35 | 9.15 | 34.15 | 41.55 | 14.79 | - | - | - | - | - | - |
| 0500 | - | - | 0.35 | 8.16 | 31.21 | 41.49 | 18.44 | 0.35 | - | - | - | - | - |
| 0600 | - | - | - | 5.28 | 21.13 | 44.72 | 27.46 | 1.41 | - | - | - | - | - |
| 0700 | - | - | - | 2.49 | 19.22 | 39.15 | 32.74 | 6.41 | - | - | - | - | - |
| 0800 | - | - | - | 0.35 | 16.03 | 35.54 | 32.06 | 15.33 | 0.70 | - | - | - | - |
| 0900 | - | - | - | - | 13.73 | 28.17 | 32.04 | 23.24 | 2.82 | - | - | - | - |
| 1000 | - | - | - | - | 13.38 | 25.70 | 30.28 | 25.00 | 5.63 | - | - | - | - |
| 1100 | - | - | - | 0.35 | 11.93 | 23.86 | 30.88 | 24.56 | 8.42 | - | - | - | - |
| 1200 | - | - | - | 0.35 | 10.45 | 25.09 | 32.06 | 22.30 | 9.41 | 0.35 | - | - | - |
| 1300 | - | - | - | 0.35 | 11.50 | 26.48 | 32.06 | 20.21 | 9.41 | - | - | - | - |
| 1400 | - | - | - | 0.35 | 14.39 | 27.37 | 34.74 | 19.30 | 3.86 | - | - | - | - |
| 1500 | - | - | - | 1.06 | 17.38 | 36.52 | 30.14 | 14.54 | 0.35 | - | - | - | - |
| 1600 | - | - | - | 1.77 | 20.85 | 43.82 | 25.44 | 8.13 | - | - | - | - | - |
| 1700 | - | - | - | 3.87 | 22.54 | 45.42 | 22.18 | 5.99 | - | - | - | - | - |
| 1800 | - | - | - | 4.53 | 23.69 | 47.04 | 19.86 | 4.88 | - | - | - | - | - |
| 1900 | - | - | - | 5.99 | 23.24 | 47.89 | 19.37 | 3.52 | - | - | - | - | - |
| 2000 | - | - | - | 5.61 | 24.56 | 47.72 | 20.00 | 2.11 | - | - | - | - | - |
| 2100 | - | - | - | 6.79 | 25.36 | 45.71 | 20.36 | 1.79 | - | - | - | - | - |
| 2200 | - | - | - | 8.54 | 25.98 | 45.20 | 19.22 | 1.07 | - | - | - | - | - |
| 2300 | - | - | 0.36 | 7.83 | 26.69 | 45.91 | 18.15 | 1.07 | - | - | - | - | - |
| MEAN | - | - | 0.15 | 4.60 | 21.98 | 39.11 | 23.98 | 8.47 | 1.69 | 0.01 | - | - | - |

Min temperature -10º to -6º (time 0300 UTC) – 0.70%

Max temperature 25º to 29º (time 1200 UTC) – 0.35%

Mean dominating temperature 5º to 9º – 39.11%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

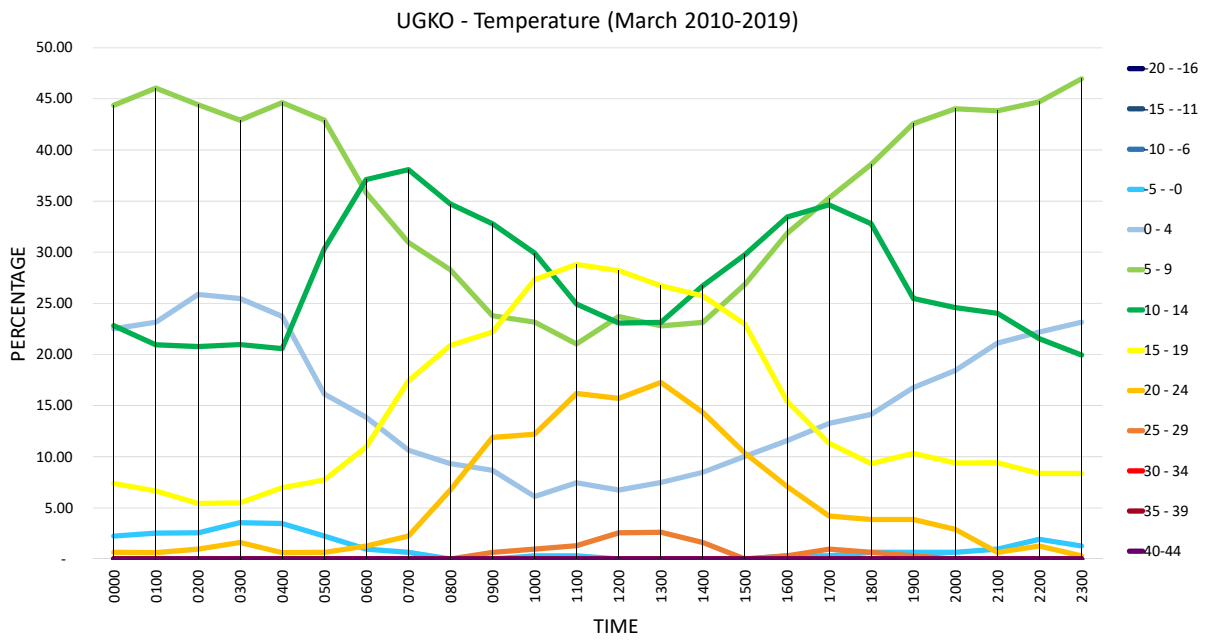
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | 2.25 | 22.51 | 44.37 | 22.83 | 7.40 | 0.64 | - | - | - | - |
| 0100 | - | - | - | 2.54 | 23.17 | 46.03 | 20.95 | 6.67 | 0.63 | - | - | - | - |
| 0200 | - | - | - | 2.56 | 25.88 | 44.41 | 20.77 | 5.43 | 0.96 | - | - | - | - |
| 0300 | - | - | - | 3.55 | 25.48 | 42.90 | 20.97 | 5.48 | 1.61 | - | - | - | - |
| 0400 | - | - | - | 3.48 | 23.73 | 44.62 | 20.57 | 6.96 | 0.63 | - | - | - | - |
| 0500 | - | - | - | 2.26 | 16.13 | 42.90 | 30.32 | 7.74 | 0.65 | - | - | - | - |
| 0600 | - | - | - | 0.97 | 13.87 | 35.81 | 37.10 | 10.97 | 1.29 | - | - | - | - |
| 0700 | - | - | - | 0.65 | 10.65 | 30.97 | 38.06 | 17.42 | 2.26 | - | - | - | - |
| 0800 | - | - | - | - | 9.32 | 28.30 | 34.73 | 20.90 | 6.75 | - | - | - | - |
| 0900 | - | - | - | - | 8.68 | 23.79 | 32.80 | 22.19 | 11.90 | 0.64 | - | - | - |
| 1000 | - | - | - | 0.32 | 6.11 | 23.15 | 29.90 | 27.33 | 12.22 | 0.96 | - | - | - |
| 1100 | - | - | - | 0.32 | 7.44 | 21.04 | 24.92 | 28.80 | 16.18 | 1.29 | - | - | - |
| 1200 | - | - | - | - | 6.73 | 23.72 | 23.08 | 28.21 | 15.71 | 2.56 | - | - | - |
| 1300 | - | - | - | - | 7.49 | 22.80 | 23.13 | 26.71 | 17.26 | 2.61 | - | - | - |
| 1400 | - | - | - | - | 8.47 | 23.13 | 26.71 | 25.73 | 14.33 | 1.63 | - | - | - |
| 1500 | - | - | - | - | 10.03 | 26.86 | 29.77 | 22.98 | 10.36 | - | - | - | - |
| 1600 | - | - | - | 0.32 | 11.58 | 31.83 | 33.44 | 15.43 | 7.07 | 0.32 | - | - | - |
| 1700 | - | - | - | 0.32 | 13.27 | 35.28 | 34.63 | 11.33 | 4.21 | 0.97 | - | - | - |
| 1800 | - | - | - | 0.64 | 14.15 | 38.59 | 32.80 | 9.32 | 3.86 | 0.64 | - | - | - |
| 1900 | - | - | - | 0.65 | 16.77 | 42.58 | 25.48 | 10.32 | 3.87 | 0.32 | - | - | - |
| 2000 | - | - | - | 0.65 | 18.45 | 44.01 | 24.60 | 9.39 | 2.91 | - | - | - | - |
| 2100 | - | - | - | 0.97 | 21.10 | 43.83 | 24.03 | 9.42 | 0.65 | - | - | - | - |
| 2200 | - | - | - | 1.93 | 22.19 | 44.69 | 21.54 | 8.36 | 1.29 | - | - | - | - |
| 2300 | - | - | - | 1.29 | 23.15 | 46.95 | 19.94 | 8.36 | 0.32 | - | - | - | - |
| MEAN | - | - | - | 1.07 | 15.27 | 35.52 | 27.21 | 14.70 | 5.73 | 0.50 | - | - | - |

Min temperature -5º to -0º (time 0300 UTC) – 3.55%

Max temperature 25º to 29º (time 1300 UTC) – 2.61%

Mean dominating temperature 5º to 9º – 35.52%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

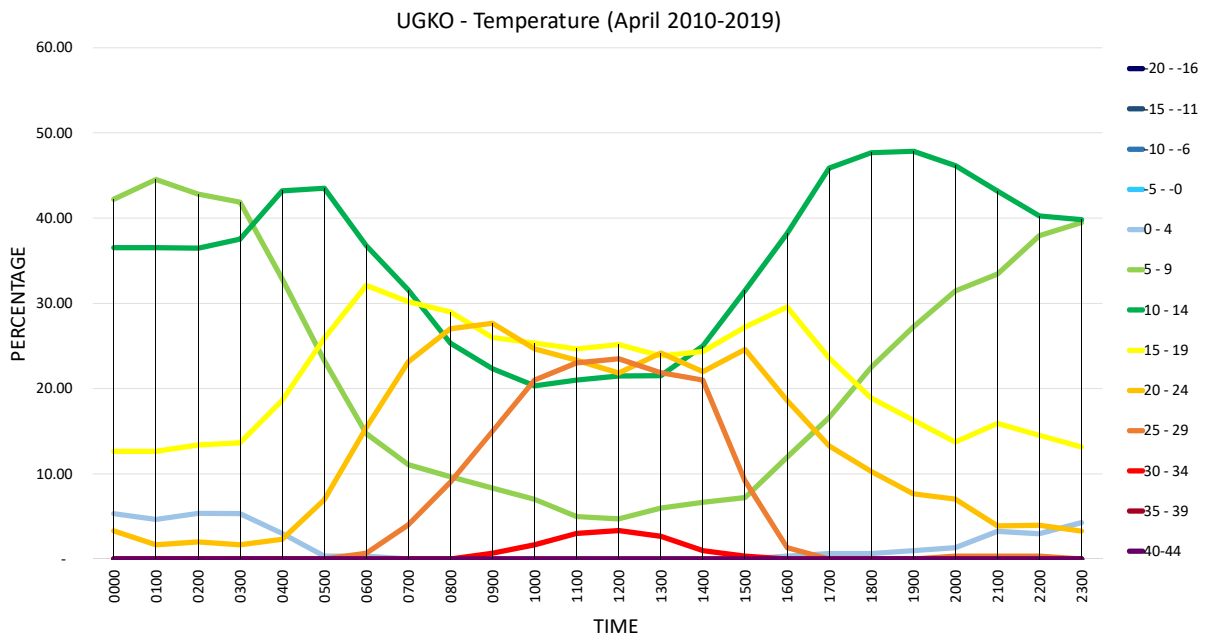
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | 5.32 | 42.19 | 36.54 | 12.62 | 3.32 | - | - | - | - |
| 0100 | - | - | - | - | 4.65 | 44.52 | 36.54 | 12.62 | 1.66 | - | - | - | - |
| 0200 | - | - | - | - | 5.35 | 42.81 | 36.45 | 13.38 | 2.01 | - | - | - | - |
| 0300 | - | - | - | - | 5.32 | 41.86 | 37.54 | 13.62 | 1.66 | - | - | - | - |
| 0400 | - | - | - | - | 2.99 | 32.89 | 43.19 | 18.60 | 2.33 | - | - | - | - |
| 0500 | - | - | - | - | 0.33 | 23.26 | 43.52 | 25.91 | 6.98 | - | - | - | - |
| 0600 | - | - | - | - | 0.33 | 14.72 | 36.79 | 32.11 | 15.38 | 0.67 | - | - | - |
| 0700 | - | - | - | - | - | 11.07 | 31.54 | 30.20 | 23.15 | 4.03 | - | - | - |
| 0800 | - | - | - | - | - | 9.67 | 25.33 | 29.00 | 27.00 | 9.00 | - | - | - |
| 0900 | - | - | - | - | - | 8.33 | 22.33 | 26.00 | 27.67 | 15.00 | 0.67 | - | - |
| 1000 | - | - | - | - | - | 7.00 | 20.33 | 25.33 | 24.67 | 21.00 | 1.67 | - | - |
| 1100 | - | - | - | - | - | 5.00 | 21.00 | 24.67 | 23.33 | 23.00 | 3.00 | - | - |
| 1200 | - | - | - | - | - | 4.70 | 21.48 | 25.17 | 21.81 | 23.49 | 3.36 | - | - |
| 1300 | - | - | - | - | - | 5.96 | 21.52 | 23.84 | 24.17 | 21.85 | 2.65 | - | - |
| 1400 | - | - | - | - | - | 6.67 | 25.00 | 24.33 | 22.00 | 21.00 | 1.00 | - | - |
| 1500 | - | - | - | - | - | 7.21 | 31.48 | 27.21 | 24.59 | 9.18 | 0.33 | - | - |
| 1600 | - | - | - | - | 0.33 | 11.96 | 38.21 | 29.57 | 18.60 | 1.33 | - | - | - |
| 1700 | - | - | - | - | 0.66 | 16.61 | 45.85 | 23.59 | 13.29 | - | - | - | - |
| 1800 | - | - | - | - | 0.66 | 22.52 | 47.68 | 18.87 | 10.26 | - | - | - | - |
| 1900 | - | - | - | - | 1.00 | 27.24 | 47.84 | 16.28 | 7.64 | - | - | - | - |
| 2000 | - | - | - | - | 1.34 | 31.44 | 46.15 | 13.71 | 7.02 | 0.33 | - | - | - |
| 2100 | - | - | - | - | 3.25 | 33.44 | 43.18 | 15.91 | 3.90 | 0.32 | - | - | - |
| 2200 | - | - | - | - | 2.97 | 37.95 | 40.26 | 14.52 | 3.96 | 0.33 | - | - | - |
| 2300 | - | - | - | - | 4.28 | 39.47 | 39.80 | 13.16 | 3.29 | - | - | - | - |
| MEAN | - | - | - | - | 1.62 | 22.02 | 34.98 | 21.26 | 13.32 | 6.27 | 0.53 | - | - |

Min temperature 0º to 4º (time 0200 UTC) – 5.35%

Max temperature 30º to 34º (time 1200 UTC) – 3.36%

Mean dominating temperature 10º to 14º – 34.98%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

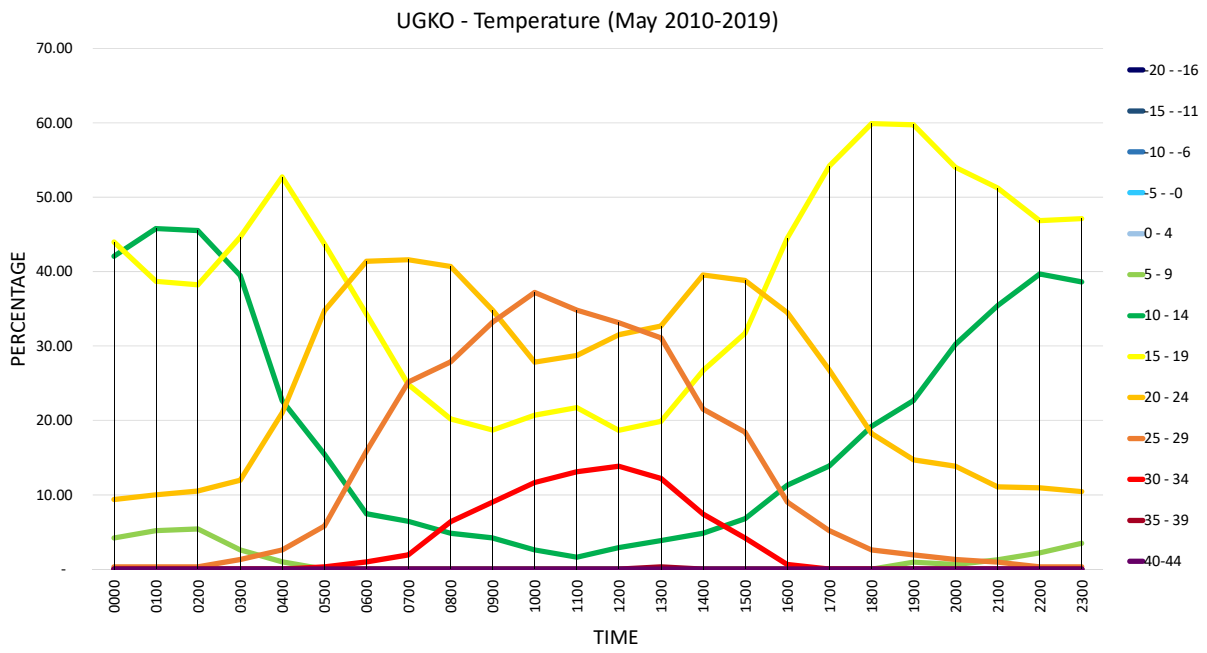
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | 4.21 | 42.07 | 44.01 | 9.39 | 0.32 | - | - | - |
| 0100 | - | - | - | - | - | 5.16 | 45.81 | 38.71 | 10.00 | 0.32 | - | - | - |
| 0200 | - | - | - | - | - | 5.41 | 45.54 | 38.22 | 10.51 | 0.32 | - | - | - |
| 0300 | - | - | - | - | - | 2.59 | 39.48 | 44.66 | 11.97 | 1.29 | - | - | - |
| 0400 | - | - | - | - | - | 0.97 | 22.65 | 52.75 | 21.04 | 2.59 | - | - | - |
| 0500 | - | - | - | - | - | - | 15.43 | 43.73 | 34.73 | 5.79 | 0.32 | - | - |
| 0600 | - | - | - | - | - | - | 7.44 | 34.30 | 41.42 | 15.86 | 0.97 | - | - |
| 0700 | - | - | - | - | - | - | 6.45 | 24.84 | 41.61 | 25.16 | 1.94 | - | - |
| 0800 | - | - | - | - | - | - | 4.81 | 20.19 | 40.71 | 27.88 | 6.41 | - | - |
| 0900 | - | - | - | - | - | - | 4.19 | 18.71 | 34.84 | 33.23 | 9.03 | - | - |
| 1000 | - | - | - | - | - | - | 2.59 | 20.71 | 27.83 | 37.22 | 11.65 | - | - |
| 1100 | - | - | - | - | - | - | 1.60 | 21.73 | 28.75 | 34.82 | 13.10 | - | - |
| 1200 | - | - | - | - | - | - | 2.89 | 18.65 | 31.51 | 33.12 | 13.83 | - | - |
| 1300 | - | - | - | - | - | - | 3.85 | 19.87 | 32.69 | 31.09 | 12.18 | 0.32 | - |
| 1400 | - | - | - | - | - | - | 4.82 | 26.69 | 39.55 | 21.54 | 7.40 | - | - |
| 1500 | - | - | - | - | - | - | 6.80 | 31.72 | 38.83 | 18.45 | 4.21 | - | - |
| 1600 | - | - | - | - | - | - | 11.29 | 44.52 | 34.52 | 9.03 | 0.65 | - | - |
| 1700 | - | - | - | - | - | - | 13.87 | 54.19 | 26.77 | 5.16 | - | - | - |
| 1800 | - | - | - | - | - | - | 19.22 | 59.93 | 18.24 | 2.61 | - | - | - |
| 1900 | - | - | - | - | - | 0.96 | 22.68 | 59.74 | 14.70 | 1.92 | - | - | - |
| 2000 | - | - | - | - | - | 0.64 | 30.23 | 54.02 | 13.83 | 1.29 | - | - | - |
| 2100 | - | - | - | - | - | 1.27 | 35.44 | 51.27 | 11.08 | 0.95 | - | - | - |
| 2200 | - | - | - | - | - | 2.19 | 39.69 | 46.88 | 10.94 | 0.31 | - | - | - |
| 2300 | - | - | - | - | - | 3.48 | 38.61 | 47.15 | 10.44 | 0.32 | - | - | - |
| MEAN | - | - | - | - | - | 1.12 | 19.48 | 38.22 | 24.83 | 12.94 | 3.40 | 0.01 | - |

Min temperature 5º to 9º (time 0200 UTC) – 5.41%

Max temperature 35º to 39º (time 1300 UTC) – 0.32%

Mean dominating temperature 15º to 19º – 38.22%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

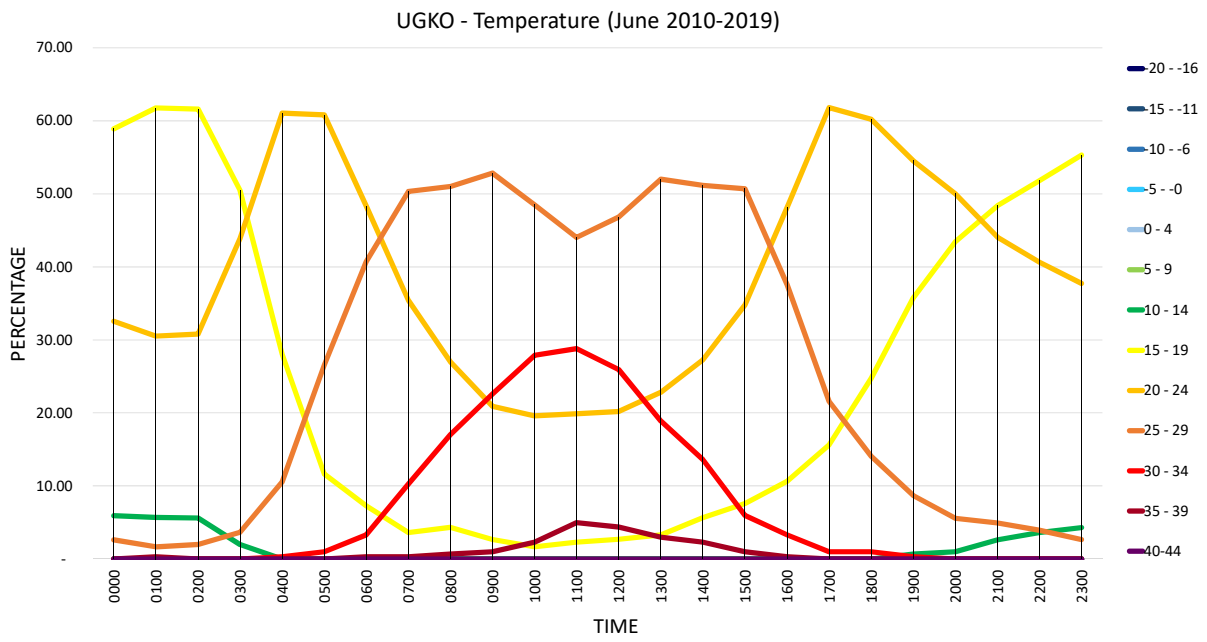
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | - | 5.92 | 58.88 | 32.57 | 2.63 | - | - | - |
| 0100 | - | - | - | - | - | - | 5.70 | 61.74 | 30.54 | 1.68 | - | 0.34 | - |
| 0200 | - | - | - | - | - | - | 5.63 | 61.59 | 30.79 | 1.99 | - | - | - |
| 0300 | - | - | - | - | - | - | 1.99 | 50.50 | 43.85 | 3.65 | - | - | - |
| 0400 | - | - | - | - | - | - | - | 28.05 | 61.06 | 10.56 | 0.33 | - | - |
| 0500 | - | - | - | - | - | - | - | 11.63 | 60.80 | 26.58 | 1.00 | - | - |
| 0600 | - | - | - | - | - | - | - | 7.28 | 48.34 | 40.73 | 3.31 | 0.33 | - |
| 0700 | - | - | - | - | - | - | - | 3.64 | 35.43 | 50.33 | 10.26 | 0.33 | - |
| 0800 | - | - | - | - | - | - | - | 4.33 | 27.00 | 51.00 | 17.00 | 0.67 | - |
| 0900 | - | - | - | - | - | - | - | 2.66 | 20.93 | 52.82 | 22.59 | 1.00 | - |
| 1000 | - | - | - | - | - | - | - | 1.66 | 19.60 | 48.50 | 27.91 | 2.33 | - |
| 1100 | - | - | - | - | - | - | - | 2.32 | 19.87 | 44.04 | 28.81 | 4.97 | - |
| 1200 | - | - | - | - | - | - | - | 2.69 | 20.20 | 46.80 | 25.93 | 4.38 | - |
| 1300 | - | - | - | - | - | - | - | 3.31 | 22.85 | 51.99 | 18.87 | 2.98 | - |
| 1400 | - | - | - | - | - | - | - | 5.65 | 27.24 | 51.16 | 13.62 | 2.33 | - |
| 1500 | - | - | - | - | - | - | - | 7.62 | 34.77 | 50.66 | 5.96 | 0.99 | - |
| 1600 | - | - | - | - | - | - | - | 10.63 | 48.17 | 37.54 | 3.32 | 0.33 | - |
| 1700 | - | - | - | - | - | - | - | 15.61 | 61.79 | 21.59 | 1.00 | - | - |
| 1800 | - | - | - | - | - | - | - | 24.75 | 60.20 | 14.05 | 1.00 | - | - |
| 1900 | - | - | - | - | - | - | 0.67 | 35.79 | 54.52 | 8.70 | 0.33 | - | - |
| 2000 | - | - | - | - | - | - | 0.99 | 43.42 | 50.00 | 5.59 | - | - | - |
| 2100 | - | - | - | - | - | - | 2.63 | 48.36 | 44.08 | 4.93 | - | - | - |
| 2200 | - | - | - | - | - | - | 3.61 | 51.80 | 40.66 | 3.93 | - | - | - |
| 2300 | - | - | - | - | - | - | 4.30 | 55.30 | 37.75 | 2.65 | - | - | - |
| MEAN | - | - | - | - | - | - | 1.31 | 24.97 | 38.88 | 26.42 | 7.55 | 0.87 | - |

Min temperature 10º to 14º (time 0000 UTC) – 5.92%

Max temperature 35º to 39º (time 1100 UTC) – 4.97%

Mean dominating temperature 20º to 24º – 38.88%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

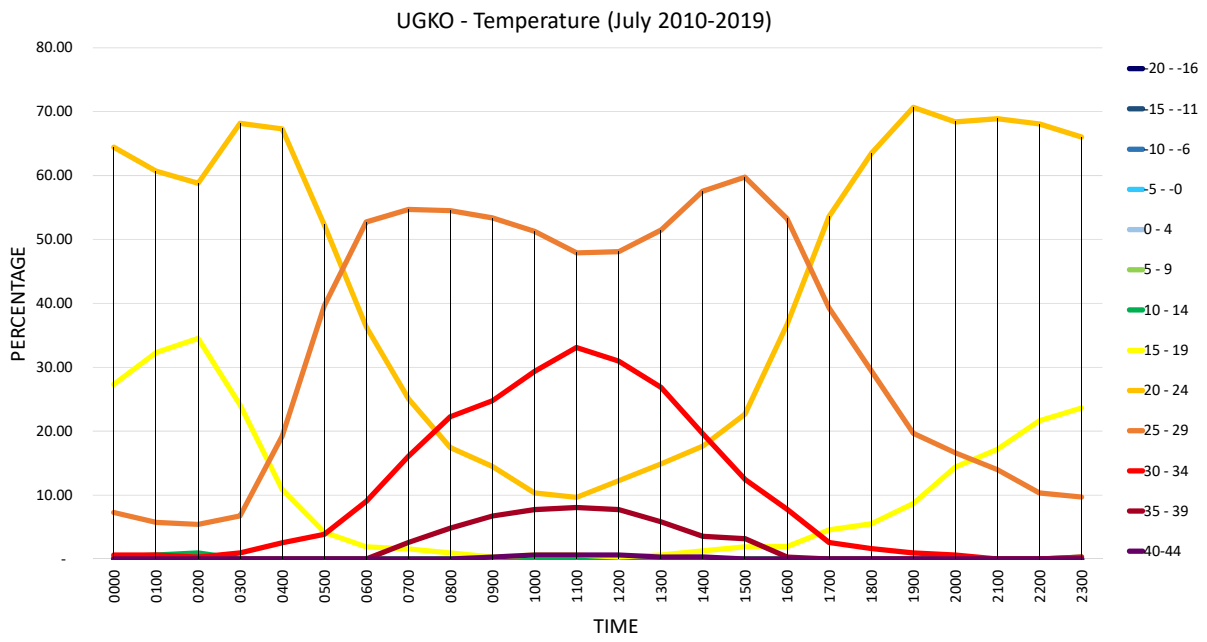
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | - | 0.32 | 27.30 | 64.44 | 7.30 | 0.63 | - | - |
| 0100 | - | - | - | - | - | - | 0.64 | 32.27 | 60.70 | 5.75 | 0.64 | - | - |
| 0200 | - | - | - | - | - | - | 0.96 | 34.50 | 58.79 | 5.43 | 0.32 | - | - |
| 0300 | - | - | - | - | - | - | - | 24.12 | 68.17 | 6.75 | 0.96 | - | - |
| 0400 | - | - | - | - | - | - | - | 10.90 | 67.31 | 19.23 | 2.56 | - | - |
| 0500 | - | - | - | - | - | - | - | 4.19 | 52.26 | 39.68 | 3.87 | - | - |
| 0600 | - | - | - | - | - | - | - | 1.93 | 36.33 | 52.73 | 9.00 | - | - |
| 0700 | - | - | - | - | - | - | - | 1.61 | 25.08 | 54.66 | 16.08 | 2.57 | - |
| 0800 | - | - | - | - | - | - | - | 0.97 | 17.42 | 54.52 | 22.26 | 4.84 | - |
| 0900 | - | - | - | - | - | - | - | 0.32 | 14.47 | 53.38 | 24.76 | 6.75 | 0.32 |
| 1000 | - | - | - | - | - | - | - | 0.65 | 10.32 | 51.29 | 29.35 | 7.74 | 0.65 |
| 1100 | - | - | - | - | - | - | - | 0.64 | 9.65 | 47.91 | 33.12 | 8.04 | 0.64 |
| 1200 | - | - | - | - | - | - | - | 0.32 | 12.26 | 48.06 | 30.97 | 7.74 | 0.65 |
| 1300 | - | - | - | - | - | - | - | 0.65 | 14.89 | 51.46 | 26.86 | 5.83 | 0.32 |
| 1400 | - | - | - | - | - | - | - | 1.29 | 17.68 | 57.56 | 19.61 | 3.54 | 0.32 |
| 1500 | - | - | - | - | - | - | - | 1.92 | 22.68 | 59.74 | 12.46 | 3.19 | - |
| 1600 | - | - | - | - | - | - | - | 1.95 | 36.69 | 53.25 | 7.79 | 0.32 | - |
| 1700 | - | - | - | - | - | - | - | 4.55 | 53.57 | 39.29 | 2.60 | - | - |
| 1800 | - | - | - | - | - | - | - | 5.50 | 63.43 | 29.45 | 1.62 | - | - |
| 1900 | - | - | - | - | - | - | - | 8.71 | 70.65 | 19.68 | 0.97 | - | - |
| 2000 | - | - | - | - | - | - | - | 14.38 | 68.37 | 16.61 | 0.64 | - | - |
| 2100 | - | - | - | - | - | - | - | 17.14 | 68.89 | 13.97 | - | - | - |
| 2200 | - | - | - | - | - | - | - | 21.61 | 68.06 | 10.32 | - | - | - |
| 2300 | - | - | - | - | - | - | 0.32 | 23.62 | 66.02 | 9.71 | 0.32 | - | - |
| MEAN | - | - | - | - | - | - | 0.09 | 10.04 | 43.67 | 33.66 | 10.31 | 2.11 | 0.12 |

Min temperature 10º to 14º (time 0200 UTC) – 0.96%

Max temperature 40º to 44º (time 1000 and 1200 UTC) – each 0.65%

Mean dominating temperature 20º to 24º – 43.67%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

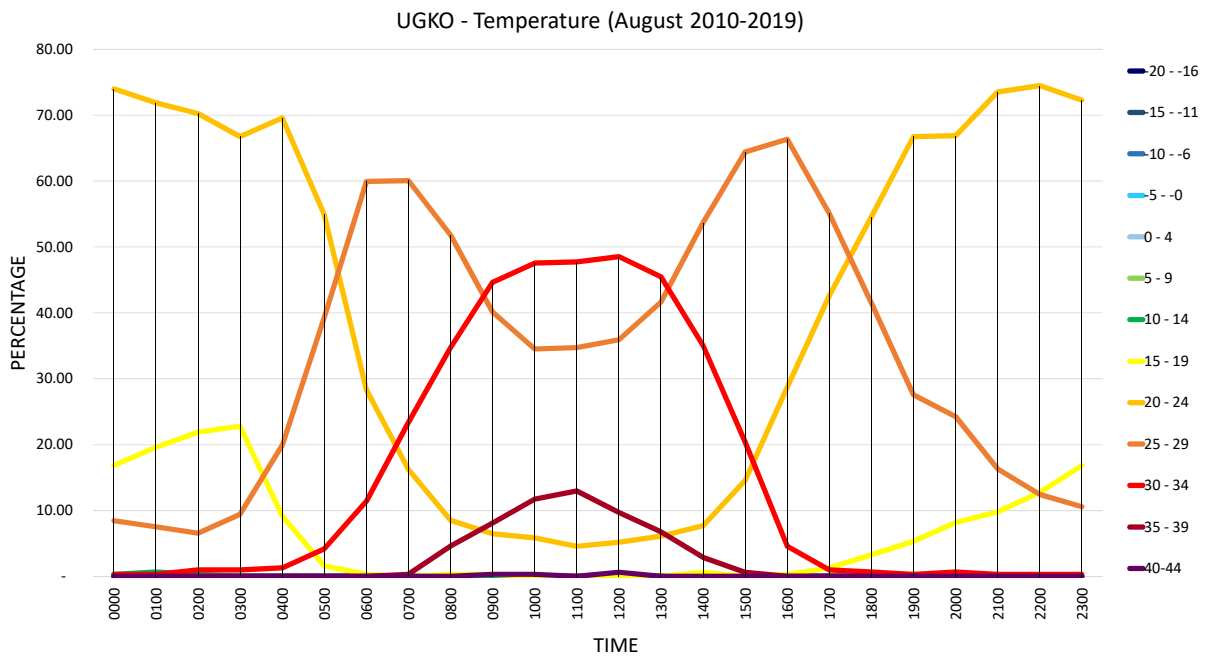
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | - | 0.32 | 16.88 | 74.03 | 8.44 | 0.32 | - | - |
| 0100 | - | - | - | - | - | - | 0.65 | 19.61 | 71.90 | 7.52 | 0.33 | - | - |
| 0200 | - | - | - | - | - | - | 0.33 | 21.90 | 70.26 | 6.54 | 0.98 | - | - |
| 0300 | - | - | - | - | - | - | - | 22.80 | 66.78 | 9.45 | 0.98 | - | - |
| 0400 | - | - | - | - | - | - | - | 9.15 | 69.61 | 19.93 | 1.31 | - | - |
| 0500 | - | - | - | - | - | - | - | 1.60 | 54.95 | 39.30 | 4.15 | - | - |
| 0600 | - | - | - | - | - | - | - | 0.33 | 28.34 | 59.93 | 11.40 | - | - |
| 0700 | - | - | - | - | - | - | - | - | 16.23 | 60.06 | 23.38 | 0.32 | - |
| 0800 | - | - | - | - | - | - | - | 0.33 | 8.52 | 51.80 | 34.75 | 4.59 | - |
| 0900 | - | - | - | - | - | - | - | 0.32 | 6.47 | 40.13 | 44.66 | 8.09 | 0.32 |
| 1000 | - | - | - | - | - | - | - | - | 5.86 | 34.53 | 47.56 | 11.73 | 0.33 |
| 1100 | - | - | - | - | - | - | - | - | 4.55 | 34.74 | 47.73 | 12.99 | - |
| 1200 | - | - | - | - | - | - | - | - | 5.18 | 35.92 | 48.54 | 9.71 | 0.65 |
| 1300 | - | - | - | - | - | - | - | - | 6.13 | 41.61 | 45.48 | 6.77 | - |
| 1400 | - | - | - | - | - | - | - | 0.64 | 7.72 | 53.70 | 35.05 | 2.89 | - |
| 1500 | - | - | - | - | - | - | - | - | 14.56 | 64.40 | 20.39 | 0.65 | - |
| 1600 | - | - | - | - | - | - | - | 0.33 | 28.76 | 66.34 | 4.58 | - | - |
| 1700 | - | - | - | - | - | - | - | 1.31 | 42.62 | 55.08 | 0.98 | - | - |
| 1800 | - | - | - | - | - | - | - | 3.29 | 54.61 | 41.45 | 0.66 | - | - |
| 1900 | - | - | - | - | - | - | - | 5.32 | 66.78 | 27.57 | 0.33 | - | - |
| 2000 | - | - | - | - | - | - | - | 8.20 | 66.89 | 24.26 | 0.66 | - | - |
| 2100 | - | - | - | - | - | - | - | 9.80 | 73.53 | 16.34 | 0.33 | - | - |
| 2200 | - | - | - | - | - | - | - | 12.75 | 74.51 | 12.42 | 0.33 | - | - |
| 2300 | - | - | - | - | - | - | - | 16.83 | 72.28 | 10.56 | 0.33 | - | - |
| MEAN | - | - | - | - | - | - | 0.05 | 6.31 | 41.29 | 34.25 | 15.63 | 2.41 | 0.05 |

Min temperature 10º to 14º (time 0100 UTC) – 0.65%

Max temperature 40º to 44º (time 1200 UTC) – 0.65%

Mean dominating temperature 20º to 24º – 41.29%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

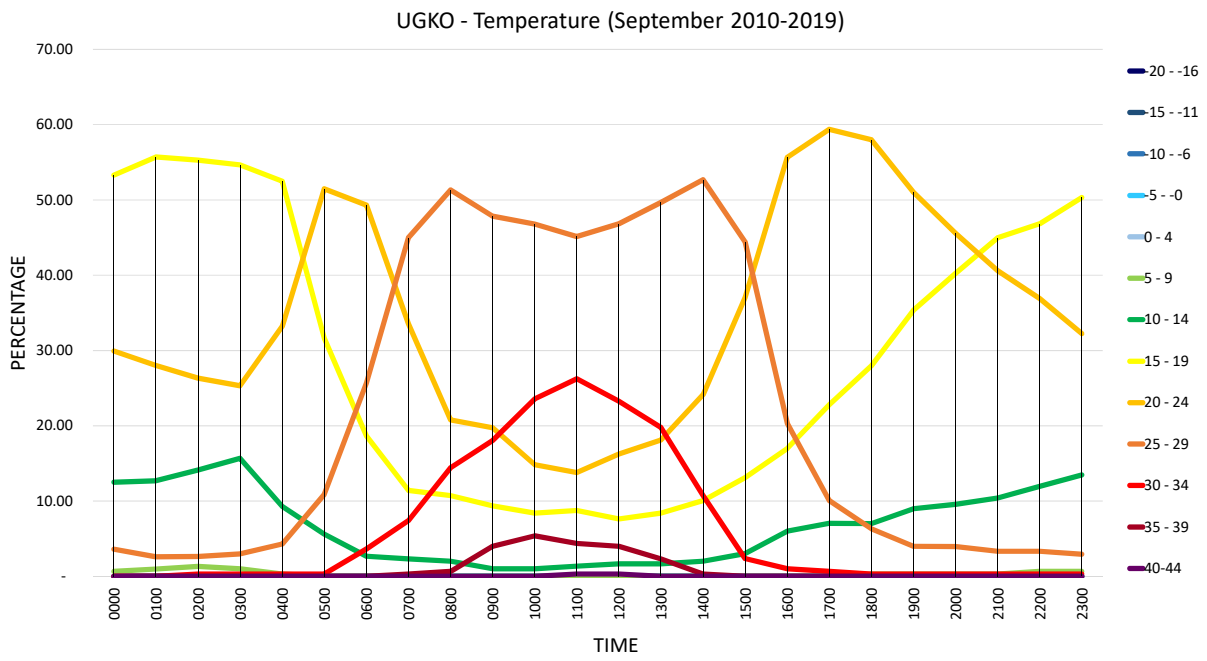
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | 0.66 | 12.50 | 53.29 | 29.93 | 3.62 | - | - | - |
| 0100 | - | - | - | - | - | 0.98 | 12.70 | 55.70 | 28.01 | 2.61 | - | - | - |
| 0200 | - | - | - | - | - | 1.32 | 14.14 | 55.26 | 26.32 | 2.63 | 0.33 | - | - |
| 0300 | - | - | - | - | - | 1.00 | 15.67 | 54.67 | 25.33 | 3.00 | 0.33 | - | - |
| 0400 | - | - | - | - | - | 0.33 | 9.30 | 52.49 | 33.22 | 4.32 | 0.33 | - | - |
| 0500 | - | - | - | - | - | - | 5.61 | 31.68 | 51.49 | 10.89 | 0.33 | - | - |
| 0600 | - | - | - | - | - | - | 2.67 | 18.67 | 49.33 | 25.67 | 3.67 | - | - |
| 0700 | - | - | - | - | - | - | 2.35 | 11.41 | 33.56 | 44.97 | 7.38 | 0.34 | - |
| 0800 | - | - | - | - | - | - | 2.01 | 10.74 | 20.81 | 51.34 | 14.43 | 0.67 | - |
| 0900 | - | - | - | - | - | - | 1.00 | 9.36 | 19.73 | 47.83 | 18.06 | 4.01 | - |
| 1000 | - | - | - | - | - | - | 1.01 | 8.42 | 14.81 | 46.80 | 23.57 | 5.39 | - |
| 1100 | - | - | - | - | - | - | 1.35 | 8.75 | 13.80 | 45.12 | 26.26 | 4.38 | 0.34 |
| 1200 | - | - | - | - | - | - | 1.66 | 7.64 | 16.28 | 46.84 | 23.26 | 3.99 | 0.33 |
| 1300 | - | - | - | - | - | - | 1.68 | 8.39 | 18.12 | 49.66 | 19.80 | 2.35 | - |
| 1400 | - | - | - | - | - | - | 2.01 | 10.07 | 24.16 | 52.68 | 10.74 | 0.34 | - |
| 1500 | - | - | - | - | - | - | 3.03 | 13.13 | 37.04 | 44.44 | 2.36 | - | - |
| 1600 | - | - | - | - | - | - | 6.00 | 17.00 | 55.67 | 20.33 | 1.00 | - | - |
| 1700 | - | - | - | - | - | - | 7.05 | 22.82 | 59.40 | 10.07 | 0.67 | - | - |
| 1800 | - | - | - | - | - | 0.33 | 7.00 | 28.00 | 58.00 | 6.33 | 0.33 | - | - |
| 1900 | - | - | - | - | - | 0.33 | 9.00 | 35.33 | 51.00 | 4.00 | 0.33 | - | - |
| 2000 | - | - | - | - | - | 0.33 | 9.57 | 40.26 | 45.54 | 3.96 | 0.33 | - | - |
| 2100 | - | - | - | - | - | 0.34 | 10.40 | 44.97 | 40.60 | 3.36 | 0.34 | - | - |
| 2200 | - | - | - | - | - | 0.66 | 11.96 | 46.84 | 36.88 | 3.32 | 0.33 | - | - |
| 2300 | - | - | - | - | - | 0.66 | 13.49 | 50.33 | 32.24 | 2.96 | 0.33 | - | - |
| MEAN | - | - | - | - | - | 0.29 | 6.80 | 28.97 | 34.22 | 22.36 | 6.44 | 0.89 | 0.03 |

Min temperature 5º to 9º (time 0200 UTC) – 1.32%

Max temperature 40º to 44º (time 1100 UTC) – 0.34%

Mean dominating temperature 20º to 24º – 34.22%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

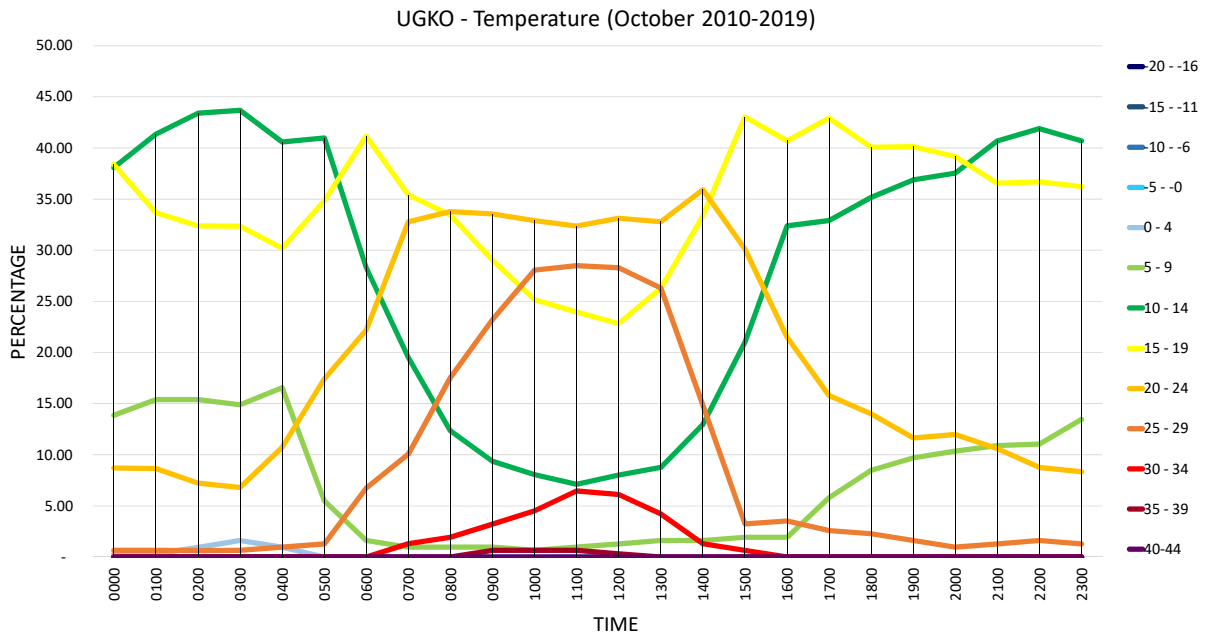
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | 0.32 | 13.87 | 38.06 | 38.39 | 8.71 | 0.65 | - | - | - |
| 0100 | - | - | - | - | 0.32 | 15.38 | 41.35 | 33.65 | 8.65 | 0.64 | - | - | - |
| 0200 | - | - | - | - | 0.94 | 15.41 | 43.40 | 32.39 | 7.23 | 0.63 | - | - | - |
| 0300 | - | - | - | - | 1.62 | 14.89 | 43.69 | 32.36 | 6.80 | 0.65 | - | - | - |
| 0400 | - | - | - | - | 0.97 | 16.56 | 40.58 | 30.19 | 10.71 | 0.97 | - | - | - |
| 0500 | - | - | - | - | - | 5.48 | 40.97 | 34.84 | 17.42 | 1.29 | - | - | - |
| 0600 | - | - | - | - | - | 1.61 | 28.30 | 41.16 | 22.19 | 6.75 | - | - | - |
| 0700 | - | - | - | - | - | 0.97 | 19.48 | 35.39 | 32.79 | 10.06 | 1.30 | - | - |
| 0800 | - | - | - | - | - | 0.97 | 12.34 | 33.44 | 33.77 | 17.53 | 1.95 | - | - |
| 0900 | - | - | - | - | - | 0.97 | 9.35 | 29.03 | 33.55 | 23.23 | 3.23 | 0.65 | - |
| 1000 | - | - | - | - | - | 0.65 | 8.06 | 25.16 | 32.90 | 28.06 | 4.52 | 0.65 | - |
| 1100 | - | - | - | - | - | 0.97 | 7.12 | 23.95 | 32.36 | 28.48 | 6.47 | 0.65 | - |
| 1200 | - | - | - | - | - | 1.29 | 8.04 | 22.83 | 33.12 | 28.30 | 6.11 | 0.32 | - |
| 1300 | - | - | - | - | - | 1.62 | 8.77 | 26.30 | 32.79 | 26.30 | 4.22 | - | - |
| 1400 | - | - | - | - | - | 1.62 | 12.94 | 33.33 | 35.92 | 14.89 | 1.29 | - | - |
| 1500 | - | - | - | - | - | 1.94 | 21.04 | 43.04 | 30.10 | 3.24 | 0.65 | - | - |
| 1600 | - | - | - | - | - | 1.92 | 32.37 | 40.71 | 21.47 | 3.53 | - | - | - |
| 1700 | - | - | - | - | - | 5.81 | 32.90 | 42.90 | 15.81 | 2.58 | - | - | - |
| 1800 | - | - | - | - | - | 8.47 | 35.18 | 40.07 | 14.01 | 2.28 | - | - | - |
| 1900 | - | - | - | - | - | 9.71 | 36.89 | 40.13 | 11.65 | 1.62 | - | - | - |
| 2000 | - | - | - | - | - | 10.36 | 37.54 | 39.16 | 11.97 | 0.97 | - | - | - |
| 2100 | - | - | - | - | - | 10.90 | 40.71 | 36.54 | 10.58 | 1.28 | - | - | - |
| 2200 | - | - | - | - | - | 11.04 | 41.88 | 36.69 | 8.77 | 1.62 | - | - | - |
| 2300 | - | - | - | - | - | 13.46 | 40.71 | 36.22 | 8.33 | 1.28 | - | - | - |
| MEAN | - | - | - | - | 0.17 | 6.91 | 28.40 | 34.49 | 20.07 | 8.62 | 1.24 | 0.09 | - |

Min temperature 0º to 4º (time 0300 UTC) – 1.62%

Max temperature 35º to 39º (time 0900, 1000 and 1100 UTC) – each 0.65%

Mean dominating temperature 15º to 19º – 34.49%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

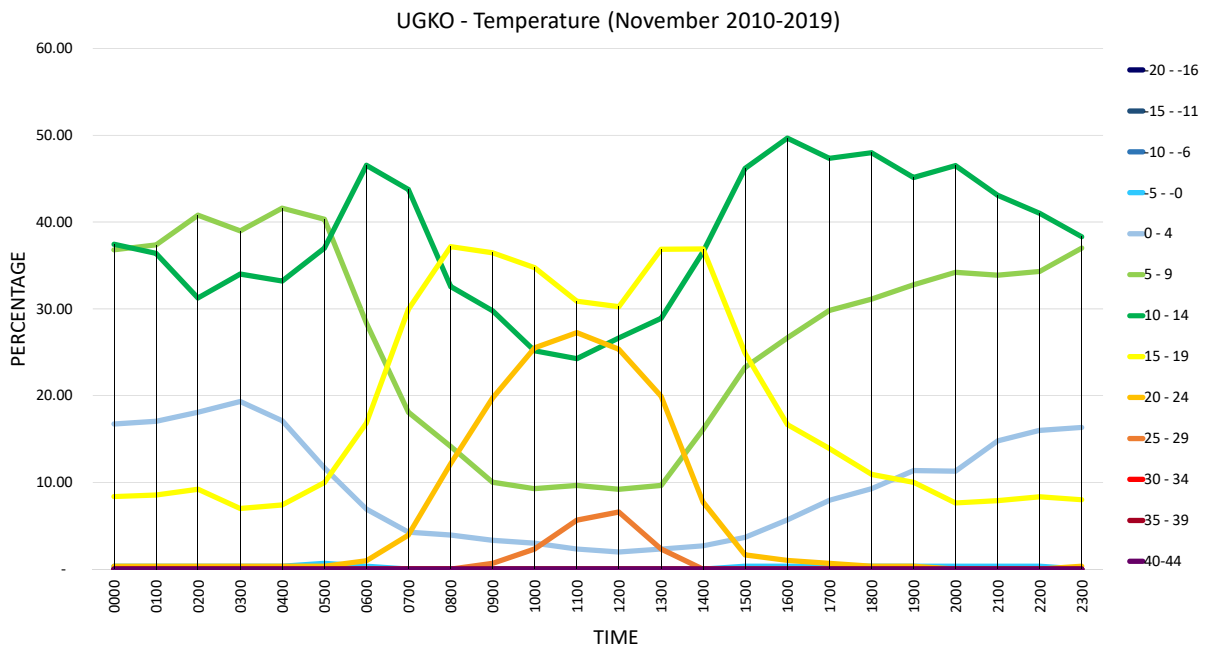
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | 0.33 | 16.72 | 36.79 | 37.46 | 8.36 | 0.33 | - | - | - | - |
| 0100 | - | - | - | 0.33 | 17.05 | 37.38 | 36.39 | 8.52 | 0.33 | - | - | - | - |
| 0200 | - | - | - | 0.33 | 18.09 | 40.79 | 31.25 | 9.21 | 0.33 | - | - | - | - |
| 0300 | - | - | - | 0.33 | 19.33 | 39.00 | 34.00 | 7.00 | 0.33 | - | - | - | - |
| 0400 | - | - | - | 0.34 | 17.11 | 41.61 | 33.22 | 7.38 | 0.34 | - | - | - | - |
| 0500 | - | - | - | 0.67 | 11.67 | 40.33 | 37.00 | 10.00 | 0.33 | - | - | - | - |
| 0600 | - | - | - | 0.33 | 6.93 | 28.38 | 46.53 | 16.83 | 0.99 | - | - | - | - |
| 0700 | - | - | - | - | 4.28 | 18.09 | 43.75 | 29.93 | 3.95 | - | - | - | - |
| 0800 | - | - | - | - | 3.95 | 14.14 | 32.57 | 37.17 | 12.17 | - | - | - | - |
| 0900 | - | - | - | - | 3.34 | 10.03 | 29.77 | 36.45 | 19.73 | 0.67 | - | - | - |
| 1000 | - | - | - | - | 2.98 | 9.27 | 25.17 | 34.77 | 25.50 | 2.32 | - | - | - |
| 1100 | - | - | - | - | 2.33 | 9.63 | 24.25 | 30.90 | 27.24 | 5.65 | - | - | - |
| 1200 | - | - | - | - | 1.97 | 9.21 | 26.64 | 30.26 | 25.33 | 6.58 | - | - | - |
| 1300 | - | - | - | - | 2.33 | 9.63 | 28.90 | 36.88 | 19.93 | 2.33 | - | - | - |
| 1400 | - | - | - | - | 2.68 | 16.11 | 36.58 | 36.91 | 7.72 | - | - | - | - |
| 1500 | - | - | - | 0.33 | 3.65 | 23.26 | 46.18 | 24.92 | 1.66 | - | - | - | - |
| 1600 | - | - | - | 0.33 | 5.67 | 26.67 | 49.67 | 16.67 | 1.00 | - | - | - | - |
| 1700 | - | - | - | 0.33 | 7.95 | 29.80 | 47.35 | 13.91 | 0.66 | - | - | - | - |
| 1800 | - | - | - | 0.33 | 9.27 | 31.13 | 48.01 | 10.93 | 0.33 | - | - | - | - |
| 1900 | - | - | - | 0.33 | 11.37 | 32.78 | 45.15 | 10.03 | 0.33 | - | - | - | - |
| 2000 | - | - | - | 0.33 | 11.30 | 34.22 | 46.51 | 7.64 | - | - | - | - | - |
| 2100 | - | - | - | 0.33 | 14.80 | 33.88 | 43.09 | 7.89 | - | - | - | - | - |
| 2200 | - | - | - | 0.33 | 16.00 | 34.33 | 41.00 | 8.33 | - | - | - | - | - |
| 2300 | - | - | - | - | 16.33 | 37.00 | 38.33 | 8.00 | 0.33 | - | - | - | - |
| MEAN | - | - | - | 0.22 | 9.46 | 26.81 | 37.87 | 18.70 | 6.20 | 0.73 | - | - | - |

Min temperature -5º to -0º (time 0500 UTC) – 0.67%

Max temperature 25º to 29º (time 1200 UTC) – 6.58%

Mean dominating temperature 10º to 14º – 37.87%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGKO MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

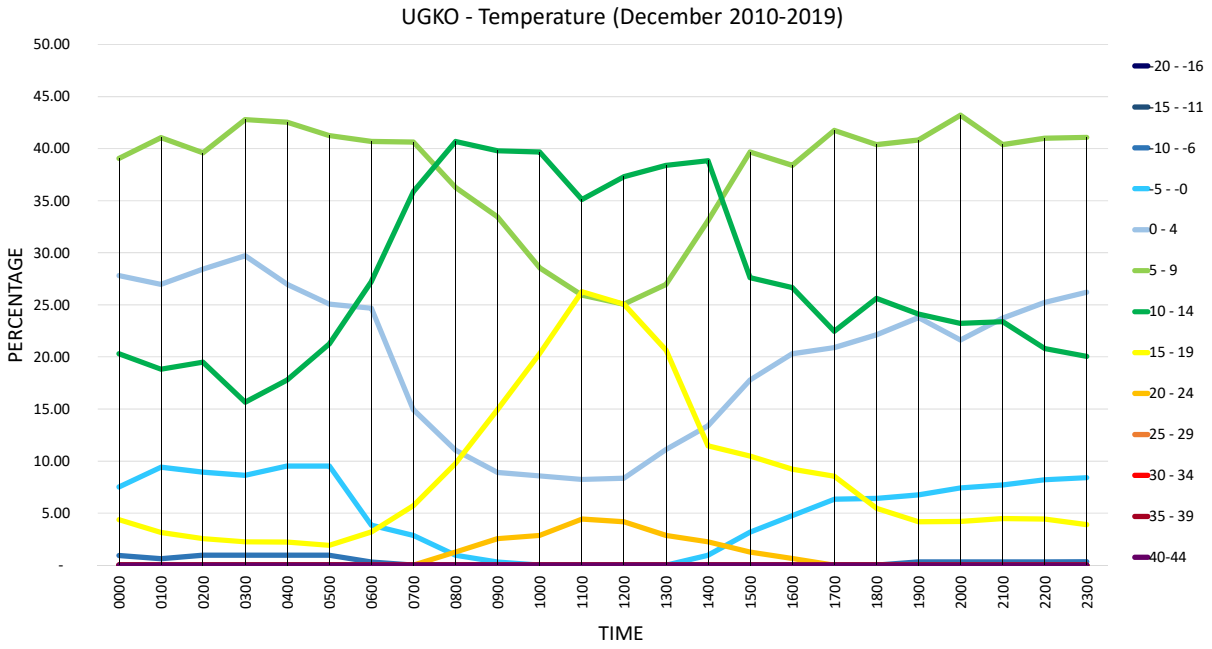
LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | 0.94 | 7.50 | 27.81 | 39.06 | 20.31 | 4.38 | - | - | - | - | - |
| 0100 | - | - | 0.63 | 9.40 | 26.96 | 41.07 | 18.81 | 3.13 | - | - | - | - | - |
| 0200 | - | - | 0.96 | 8.95 | 28.43 | 39.62 | 19.49 | 2.56 | - | - | - | - | - |
| 0300 | - | - | 0.96 | 8.63 | 29.71 | 42.81 | 15.65 | 2.24 | - | - | - | - | - |
| 0400 | - | - | 0.95 | 9.52 | 26.98 | 42.54 | 17.78 | 2.22 | - | - | - | - | - |
| 0500 | - | - | 0.95 | 9.52 | 25.08 | 41.27 | 21.27 | 1.90 | - | - | - | - | - |
| 0600 | - | - | 0.32 | 3.85 | 24.68 | 40.71 | 27.24 | 3.21 | - | - | - | - | - |
| 0700 | - | - | - | 2.86 | 14.92 | 40.63 | 35.87 | 5.71 | - | - | - | - | - |
| 0800 | - | - | - | 0.95 | 11.04 | 36.28 | 40.69 | 9.78 | 1.26 | - | - | - | - |
| 0900 | - | - | - | 0.32 | 8.92 | 33.44 | 39.81 | 14.97 | 2.55 | - | - | - | - |
| 1000 | - | - | - | - | 8.57 | 28.57 | 39.68 | 20.32 | 2.86 | - | - | - | - |
| 1100 | - | - | - | - | 8.23 | 25.95 | 35.13 | 26.27 | 4.43 | - | - | - | - |
| 1200 | - | - | - | - | 8.36 | 25.08 | 37.30 | 25.08 | 4.18 | - | - | - | - |
| 1300 | - | - | - | - | 11.11 | 26.98 | 38.41 | 20.63 | 2.86 | - | - | - | - |
| 1400 | - | - | - | 0.96 | 13.38 | 33.12 | 38.85 | 11.46 | 2.23 | - | - | - | - |
| 1500 | - | - | - | 3.17 | 17.78 | 39.68 | 27.62 | 10.48 | 1.27 | - | - | - | - |
| 1600 | - | - | - | 4.76 | 20.32 | 38.41 | 26.67 | 9.21 | 0.63 | - | - | - | - |
| 1700 | - | - | - | 6.33 | 20.89 | 41.77 | 22.47 | 8.54 | - | - | - | - | - |
| 1800 | - | - | - | 6.41 | 22.12 | 40.38 | 25.64 | 5.45 | - | - | - | - | - |
| 1900 | - | - | 0.32 | 6.75 | 23.79 | 40.84 | 24.12 | 4.18 | - | - | - | - | - |
| 2000 | - | - | 0.32 | 7.42 | 21.61 | 43.23 | 23.23 | 4.19 | - | - | - | - | - |
| 2100 | - | - | 0.32 | 7.69 | 23.72 | 40.38 | 23.40 | 4.49 | - | - | - | - | - |
| 2200 | - | - | 0.32 | 8.20 | 25.24 | 41.01 | 20.82 | 4.42 | - | - | - | - | - |
| 2300 | - | - | 0.32 | 8.41 | 26.21 | 41.10 | 20.06 | 3.88 | - | - | - | - | - |
| MEAN | - | - | 0.30 | 5.07 | 19.83 | 37.66 | 27.51 | 8.70 | 0.93 | - | - | - | - |

Min temperature -10º to -6º (time 0200 and 0300 UTC) – 0.96 %

Max temperature 20º to 24º (time 1100 UTC) – 4.43%

Mean dominating temperature 5º to 9º – 37.66%



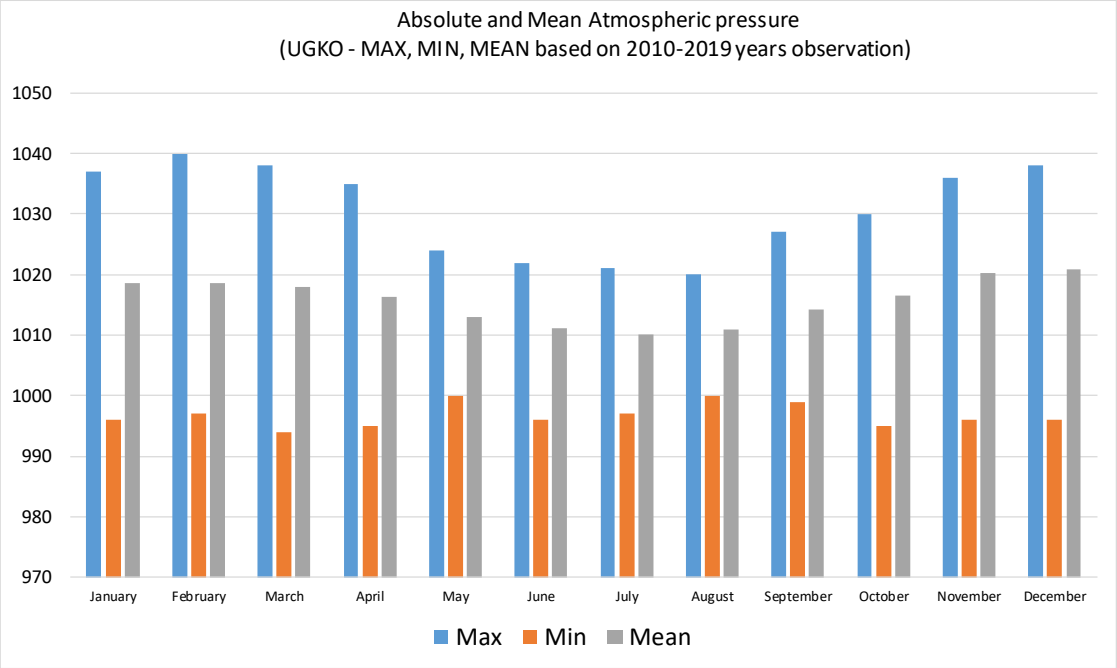
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL F**
**TABULAR FORM**

AERODROME: UGKO MONTHLY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 148992 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Absolute and Mean Atmospheric pressure (UGKO - MAX, MIN, MEAN based on 9 years observation) | | | |
|---|---|---|---|
| Pressure (HPA) | | | |
| Month | Max | Min | Mean |
| January | 1037 | 996 | 1019 |
| February | 1040 | 997 | 1019 |
| March | 1038 | 994 | 1018 |
| April | 1035 | 995 | 1016 |
| May | 1024 | 1000 | 1013 |
| June | 1022 | 996 | 1011 |
| July | 1021 | 997 | 1010 |
| August | 1020 | 1000 | 1011 |
| September | 1027 | 999 | 1014 |
| October | 1030 | 995 | 1016 |
| November | 1036 | 996 | 1020 |
| December | 1038 | 996 | 1021 |




Based on the ten years observations in Kutaisi international airport (UGKO):

The Maximum absolute pressure of atmosphere - QNH detected in February - 1040 HPA;

The Minimum absolute pressure of atmosphere - QNH detected in April - 994 HPA.

## AERONAUTICAL CLIMATOLOGY

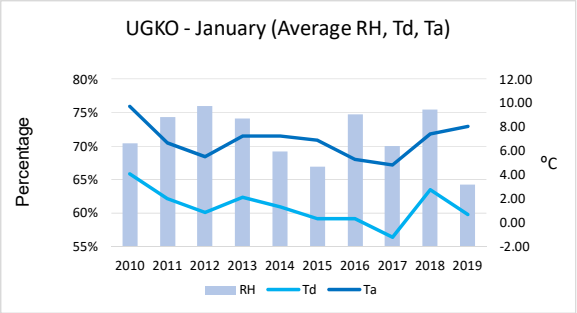
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL G**
**TABULAR FORM**

AERODROME: UGKO OBSERVATION INTERVAL: 1 HOUR PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

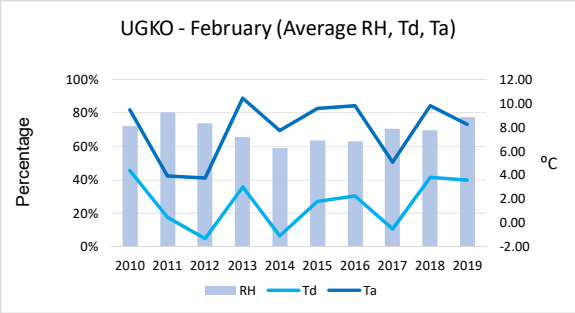
### JANUARY
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGKO January (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 70.39% | 4.07 | 9.74 |
| 2011 | 74.31% | 1.97 | 6.65 |
| 2012 | 75.97% | 0.87 | 5.50 |
| 2013 | 74.14% | 2.12 | 7.26 |
| 2014 | 69.18% | 1.33 | 7.22 |
| 2015 | 66.92% | 0.32 | 6.92 |
| 2016 | 74.74% | 0.31 | 5.27 |
| 2017 | 70.01% | -1.25 | 4.82 |
| 2018 | 75.41% | 2.75 | 7.41 |
| 2019 | 64.28% | 0.66 | 8.07 |



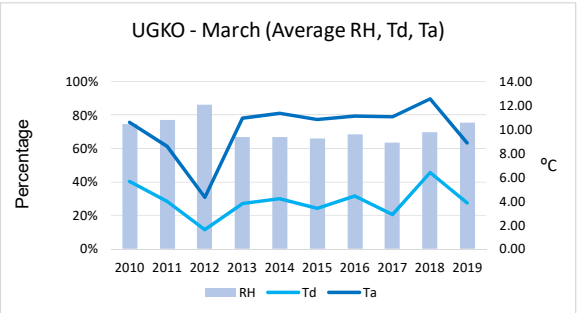

### FEBRUARY
TOTAL NUMBER OF OBSERVATIONS: 6768

| UGKO February (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 72.32% | 4.41 | 9.45 |
| 2011 | 80.41% | 0.45 | 3.92 |
| 2012 | 73.66% | -1.30 | 3.77 |
| 2013 | 65.49% | 2.98 | 10.44 |
| 2014 | 58.94% | -1.07 | 7.72 |
| 2015 | 63.67% | 1.77 | 9.59 |
| 2016 | 63.04% | 2.25 | 9.77 |
| 2017 | 70.66% | -0.54 | 5.05 |
| 2018 | 69.79% | 3.79 | 9.77 |
| 2019 | 77.47% | 3.56 | 8.27 |



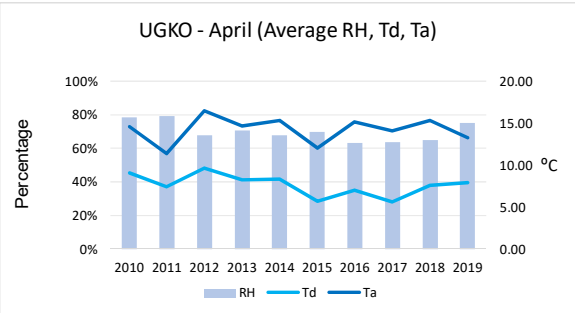

### MARCH
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGKO March (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 74.62% | 5.64 | 10.60 |
| 2011 | 77.08% | 3.99 | 8.56 |
| 2012 | 86.14% | 1.62 | 4.29 |
| 2013 | 66.87% | 3.81 | 10.91 |
| 2014 | 66.67% | 4.19 | 11.32 |
| 2015 | 65.84% | 3.37 | 10.84 |
| 2016 | 68.26% | 4.41 | 11.08 |
| 2017 | 63.36% | 2.86 | 11.06 |
| 2018 | 69.59% | 6.39 | 12.57 |
| 2019 | 75.52% | 3.85 | 8.84 |



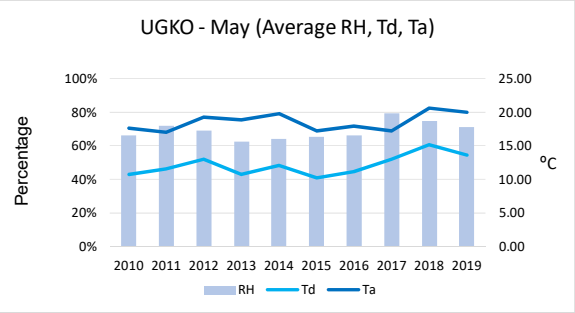

### APRIL
TOTAL NUMBER OF OBSERVATIONS: 7200

| UGKO April (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 78.40% | 9.08 | 14.56 |
| 2011 | 79.14% | 7.39 | 11.38 |
| 2012 | 67.81% | 9.61 | 16.50 |
| 2013 | 70.48% | 8.25 | 14.65 |
| 2014 | 67.66% | 8.32 | 15.33 |
| 2015 | 69.94% | 5.71 | 12.00 |
| 2016 | 63.43% | 7.01 | 15.14 |
| 2017 | 63.69% | 5.65 | 14.06 |
| 2018 | 64.90% | 7.58 | 15.35 |
| 2019 | 75.28% | 7.91 | 13.22 |



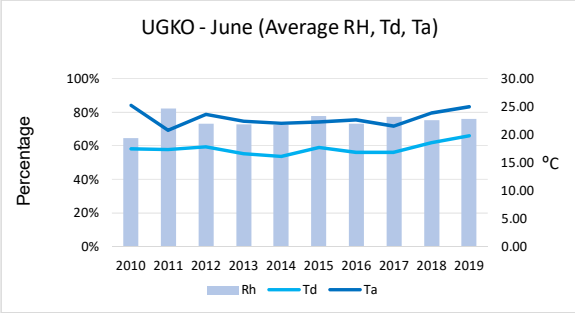
**MAY**
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGKO May (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 66.33% | 12.76 | 19.77 |
| 2011 | 77.50% | 12.44 | 16.92 |
| 2012 | 76.01% | 15.31 | 20.20 |
| 2013 | 67.05% | 13.09 | 20.50 |
| 2014 | 74.79% | 14.24 | 19.62 |
| 2015 | 71.48% | 12.04 | 18.03 |
| 2016 | 75.30% | 12.72 | 17.67 |
| 2017 | 79.48% | 13.03 | 17.17 |
| 2018 | 74.61% | 15.10 | 20.56 |
| 2019 | 70.95% | 13.55 | 20.00 |



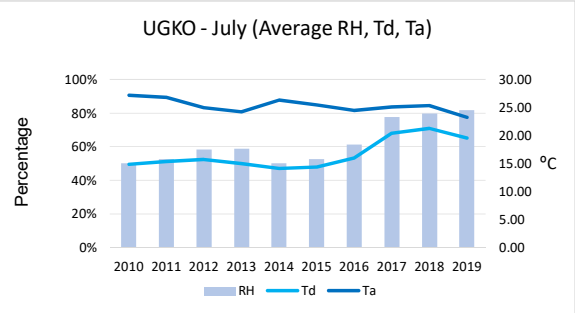

**JUNE**
TOTAL NUMBER OF OBSERVATIONS: 7200

| UGKO June (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 64.57% | 17.48 | 25.17 |
| 2011 | 82.10% | 17.31 | 20.73 |
| 2012 | 73.06% | 17.80 | 23.58 |
| 2013 | 72.86% | 16.54 | 22.32 |
| 2014 | 72.13% | 16.08 | 22.04 |
| 2015 | 77.52% | 17.65 | 22.24 |
| 2016 | 73.04% | 16.84 | 22.65 |
| 2017 | 77.39% | 16.80 | 21.49 |
| 2018 | 75.01% | 18.52 | 23.81 |
| 2019 | 76.13% | 19.72 | 24.91 |



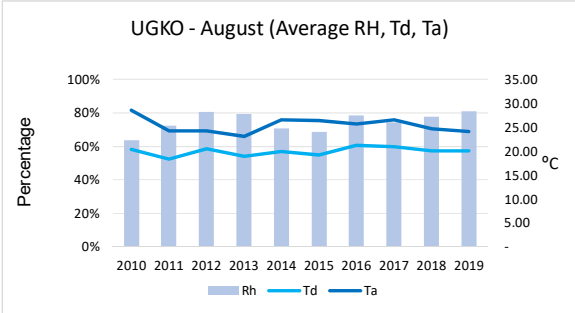

**JULY**
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGKO July (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 72.86% | 20.91 | 26.75 |
| 2011 | 78.70% | 20.40 | 25.23 |
| 2012 | 70.61% | 18.89 | 25.33 |
| 2013 | 80.66% | 18.83 | 22.59 |
| 2014 | 71.98% | 19.21 | 25.38 |
| 2015 | 75.60% | 18.52 | 23.67 |
| 2016 | 77.46% | 18.95 | 23.65 |
| 2017 | 77.78% | 20.33 | 25.06 |
| 2018 | 79.56% | 21.21 | 25.35 |
| 2019 | 81.70% | 19.50 | 23.25 |



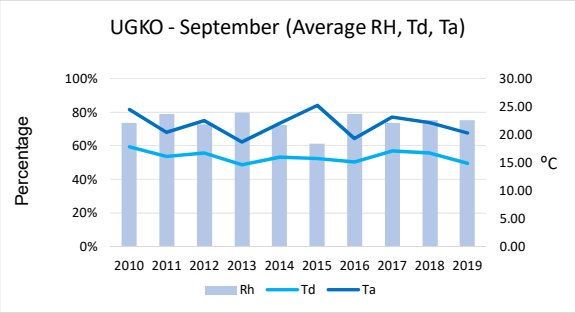

**AUGUST**
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGKO August (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 63.67% | 20.35 | 28.57 |
| 2011 | 72.56% | 18.42 | 24.23 |
| 2012 | 80.50% | 20.55 | 24.33 |
| 2013 | 79.22% | 18.89 | 23.17 |
| 2014 | 70.83% | 19.90 | 26.54 |
| 2015 | 68.53% | 19.20 | 26.45 |
| 2016 | 78.75% | 21.17 | 25.68 |
| 2017 | 74.47% | 20.89 | 26.60 |
| 2018 | 77.90% | 20.08 | 24.76 |
| 2019 | 81.16% | 20.13 | 24.08 |



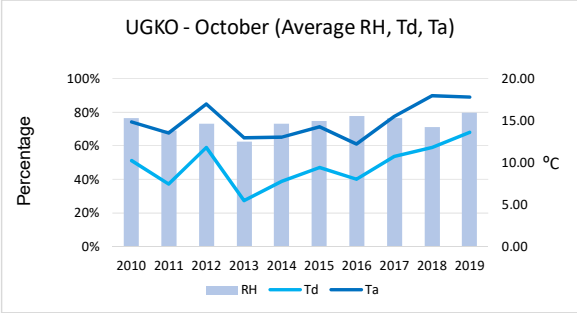
**SEPTEMBER**
TOTAL NUMBER OF OBSERVATIONS: 7200

| UGKO September (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - $C^0$ | Ta - $C^0$ |
| 2010 | 73.69% | 17.85 | 24.41 |
| 2011 | 78.70% | 16.12 | 20.42 |
| 2012 | 72.82% | 16.74 | 22.51 |
| 2013 | 79.62% | 14.60 | 18.71 |
| 2014 | 72.11% | 15.94 | 22.05 |
| 2015 | 61.18% | 15.71 | 25.14 |
| 2016 | 78.93% | 15.03 | 19.26 |
| 2017 | 73.40% | 17.04 | 23.04 |
| 2018 | 75.09% | 16.62 | 22.08 |
| 2019 | 75.22% | 14.89 | 20.26 |



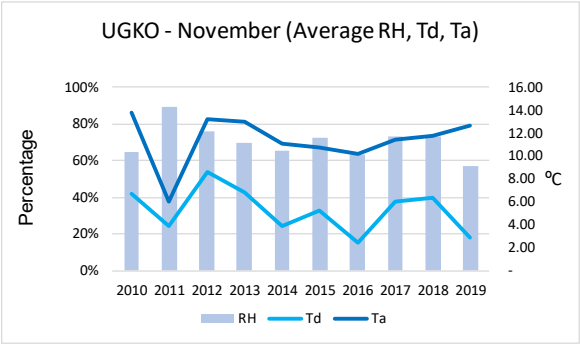

**OCTOBER**
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGKO October (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - $C^0$ | Ta - $C^0$ |
| 2010 | 80.31% | 13.08 | 16.64 |
| 2011 | 80.18% | 11.06 | 15.00 |
| 2012 | 72.63% | 13.36 | 19.19 |
| 2013 | 72.26% | 13.33 | 19.24 |
| 2014 | 72.46% | 15.87 | 21.85 |
| 2015 | 73.30% | 11.15 | 16.54 |
| 2016 | 71.04% | 9.22 | 15.06 |
| 2017 | 76.49% | 10.73 | 15.50 |
| 2018 | 71.21% | 11.82 | 17.95 |
| 2019 | 79.81% | 13.55 | 17.78 |



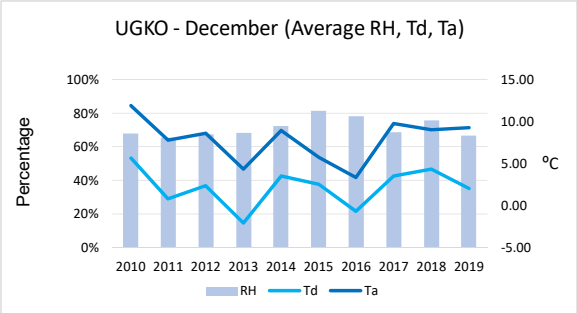

**NOVEMBER**
TOTAL NUMBER OF OBSERVATIONS: 7200

| UGKO November (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - $C^0$ | Ta - $C^0$ |
| 2010 | 64.60% | 6.70 | 13.83 |
| 2011 | 89.05% | 3.92 | 6.06 |
| 2012 | 76.24% | 8.56 | 13.24 |
| 2013 | 69.59% | 6.81 | 13.01 |
| 2014 | 65.15% | 3.91 | 11.02 |
| 2015 | 72.13% | 5.28 | 10.74 |
| 2016 | 62.94% | 2.45 | 10.21 |
| 2017 | 73.06% | 6.06 | 11.43 |
| 2018 | 73.28% | 6.40 | 11.76 |
| 2019 | 56.72% | 2.91 | 12.62 |




**DECEMBER**
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGKO December (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - $C^0$ | Ta - $C^0$ |
| 2010 | 67.72% | 5.66 | 11.92 |
| 2011 | 65.47% | 0.76 | 7.76 |
| 2012 | 67.44% | 2.35 | 8.61 |
| 2013 | 68.03% | -2.07 | 4.31 |
| 2014 | 72.09% | 3.52 | 8.96 |
| 2015 | 81.47% | 2.49 | 5.68 |
| 2016 | 77.90% | -0.71 | 3.29 |
| 2017 | 68.68% | 3.46 | 9.75 |
| 2018 | 75.61% | 4.35 | 9.01 |
| 2019 | 66.54% | 1.98 | 9.22 |



**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

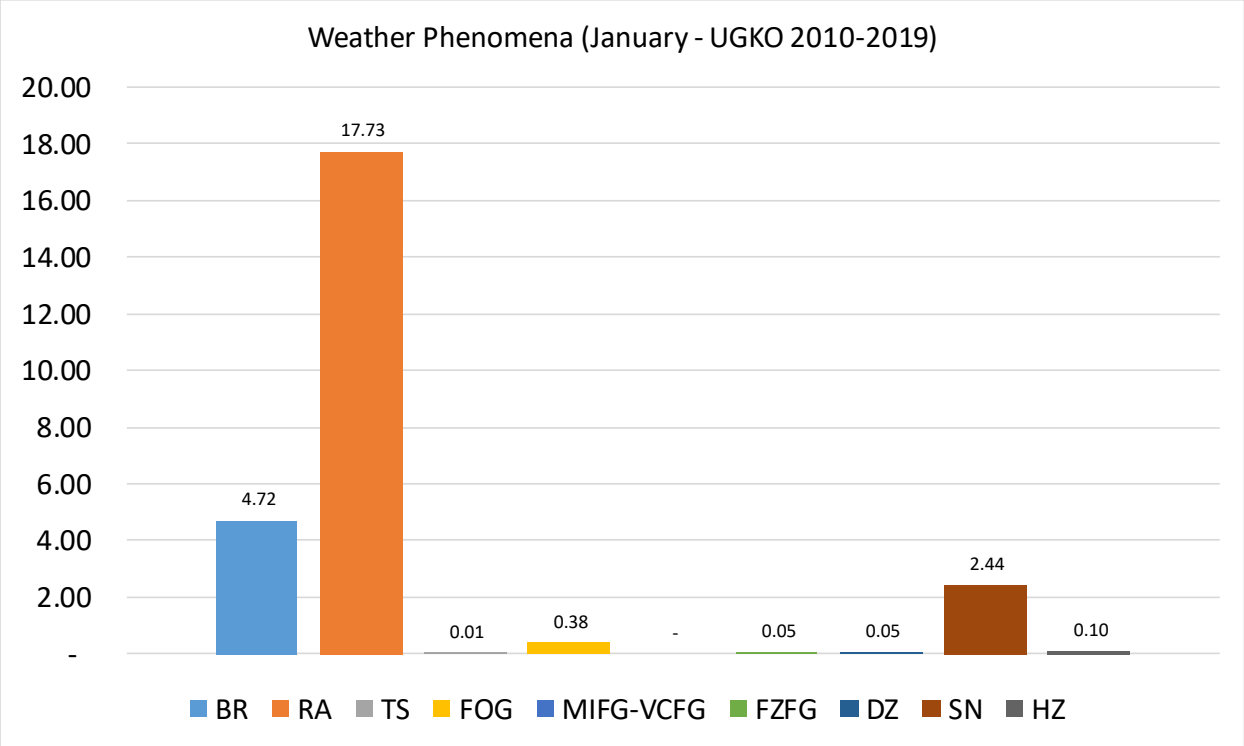
AERODROME: UGKO MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12648 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 4.81 | 17.78 | - | 0.74 | - | - | - | 1.85 | 0.37 |
| 0030 | 8.25 | 17.48 | - | 0.49 | - | - | 0.49 | 0.49 | - |
| 0100 | 5.02 | 19.06 | - | 0.33 | - | - | - | 2.34 | 0.33 |
| 0130 | 3.81 | 15.71 | - | 0.95 | - | 0.48 | - | 1.90 | - |
| 0200 | 4.76 | 17.95 | - | 0.73 | - | 0.73 | 0.37 | 1.83 | 0.37 |
| 0230 | 4.33 | 16.83 | - | 0.96 | - | 0.48 | 0.96 | 1.44 | 0.48 |
| 0300 | 6.87 | 19.24 | - | 0.69 | - | 0.34 | - | 1.03 | 1.03 |
| 0330 | 6.60 | 19.34 | - | 0.94 | - | 0.47 | 0.47 | 1.42 | - |
| 0400 | 5.70 | 18.46 | - | 0.67 | - | - | - | 2.01 | - |
| 0430 | 4.83 | 16.43 | - | 0.97 | - | - | - | 2.90 | - |
| 0500 | 6.00 | 16.33 | - | 0.67 | - | - | - | 3.00 | - |
| 0530 | 6.22 | 18.66 | - | 0.48 | - | - | - | 3.83 | - |
| 0600 | 3.95 | 17.43 | - | 0.66 | - | - | - | 3.29 | - |
| 0630 | 2.42 | 19.81 | - | 0.48 | - | - | - | 2.42 | - |
| 0700 | 4.35 | 17.39 | - | 0.33 | - | - | - | 3.34 | - |
| 0730 | 3.38 | 19.81 | - | 0.48 | - | - | - | 2.42 | - |
| 0800 | 3.72 | 18.58 | - | 0.34 | - | - | - | 2.03 | - |
| 0830 | 4.37 | 18.93 | - | - | - | - | - | 2.43 | - |
| 0900 | 4.00 | 16.67 | - | - | - | - | - | 2.00 | - |
| 0930 | 4.33 | 18.27 | - | - | - | - | - | 2.40 | - |
| 1000 | 3.38 | 17.91 | - | - | - | - | - | 2.36 | - |
| 1030 | 3.96 | 18.32 | - | - | - | - | - | 1.98 | - |
| 1100 | 2.69 | 18.86 | - | - | - | - | - | 2.02 | - |
| 1130 | 2.43 | 17.48 | - | - | - | - | - | 1.46 | - |
| 1200 | 3.06 | 18.03 | - | - | - | - | - | 2.04 | 0.34 |
| 1230 | 2.43 | 20.39 | - | - | - | - | - | 1.94 | - |
| 1300 | 2.36 | 19.87 | - | - | - | - | - | 2.02 | - |
| 1330 | 3.40 | 20.39 | - | - | - | - | - | 2.43 | - |
| 1400 | 2.75 | 16.15 | - | - | - | - | 0.34 | 2.41 | - |
| 1430 | 4.35 | 16.91 | - | - | - | - | - | 1.45 | - |
| 1500 | 2.44 | 17.77 | - | - | - | - | - | 1.39 | - |
| 1530 | 3.85 | 18.27 | - | - | - | - | - | 1.92 | - |
| 1600 | 4.39 | 19.26 | - | - | - | - | - | 2.36 | - |
| 1630 | 3.90 | 20.00 | - | - | - | - | - | 3.41 | - |
| 1700 | 6.25 | 17.65 | - | - | - | - | - | 2.57 | 0.37 |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 5.31 | 17.87 | - | 0.48 | - | - | - | 3.38 | - |
| 1800 | 6.67 | 17.78 | - | 0.37 | - | - | - | 2.96 | - |
| 1830 | 4.88 | 16.10 | - | 0.49 | - | - | - | 2.44 | - |
| 1900 | 5.15 | 15.12 | 0.34 | 0.69 | - | - | - | 3.09 | - |
| 1930 | 7.35 | 15.20 | - | 0.49 | - | - | - | 2.45 | 0.49 |
| 2000 | 6.02 | 16.17 | - | 0.38 | - | - | - | 3.38 | - |
| 2030 | 5.85 | 17.56 | - | 0.49 | - | - | - | 3.90 | - |
| 2100 | 5.54 | 16.61 | - | 0.37 | - | - | - | 2.95 | - |
| 2130 | 5.71 | 16.67 | - | 0.48 | - | - | - | 2.86 | - |
| 2200 | 5.19 | 18.15 | - | 1.11 | - | - | - | 3.33 | - |
| 2230 | 6.64 | 15.64 | - | 0.47 | - | - | - | 3.79 | - |
| 2300 | 5.54 | 16.24 | - | 0.37 | - | - | - | 2.95 | - |
| 2330 | 7.14 | 14.76 | - | 0.95 | - | - | - | 3.33 | 0.95 |
| Mean | 4.72 | 17.73 | 0.01 | 0.38 | - | 0.05 | 0.05 | 2.44 | 0.10 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in January are: rain – 17.73%, mist – 4.72%, snow – 2.44%.

The activity of thunderstorms in January constitutes 0.01%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

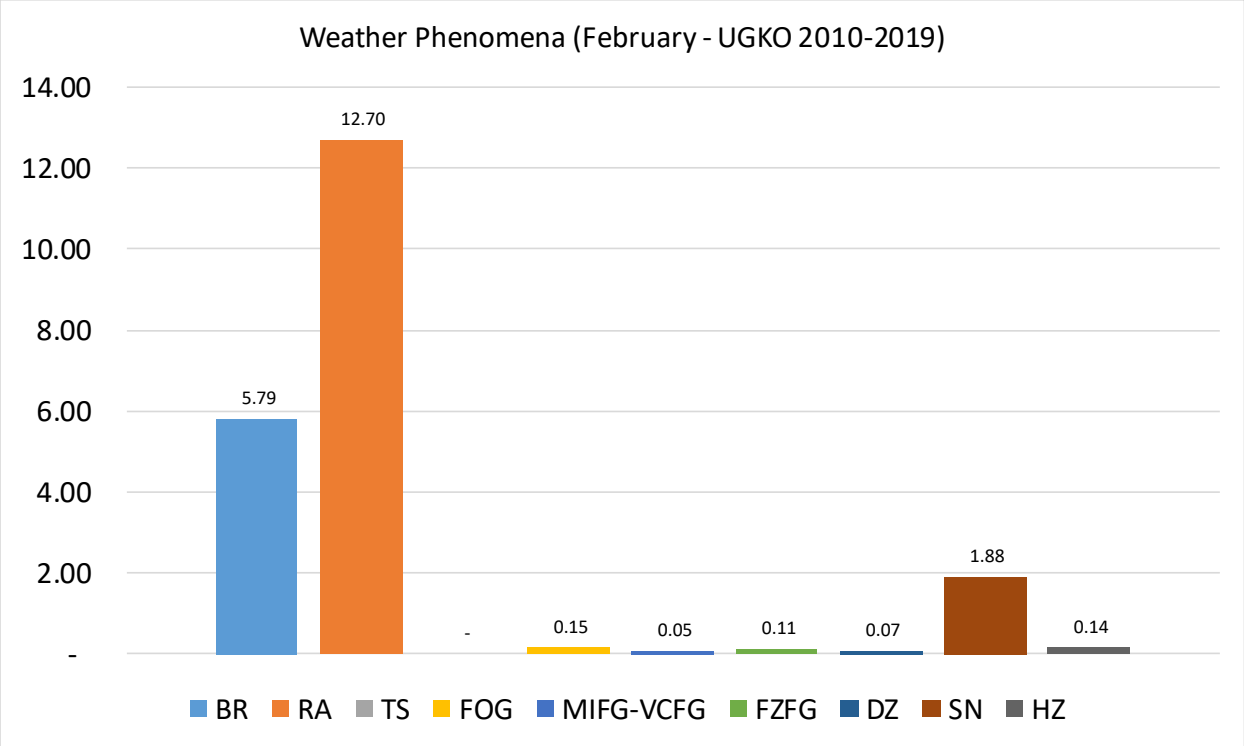
AERODROME: UGKO MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 11496 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 9.92 | 13.49 | - | - | - | 0.40 | - | 3.57 | - |
| 0030 | 5.53 | 11.56 | - | - | - | 0.50 | 0.50 | 1.01 | 1.51 |
| 0100 | 10.03 | 15.22 | - | - | - | 0.35 | - | 4.15 | 0.35 |
| 0130 | 7.46 | 12.44 | - | 0.50 | - | 1.00 | - | 1.49 | 0.50 |
| 0200 | 11.40 | 15.07 | - | 0.74 | - | 0.37 | 0.37 | 3.31 | - |
| 0230 | 6.00 | 12.50 | - | 0.50 | - | 0.50 | - | 1.50 | - |
| 0300 | 8.80 | 15.14 | - | 1.06 | - | 0.35 | - | 3.17 | 0.35 |
| 0330 | 7.07 | 12.63 | - | 1.01 | - | 0.51 | 0.51 | 1.52 | - |
| 0400 | 10.60 | 15.90 | - | 0.71 | 0.35 | - | - | 2.83 | - |
| 0430 | 9.05 | 13.57 | - | 0.50 | 0.50 | - | - | 1.01 | - |
| 0500 | 9.61 | 17.08 | - | 0.36 | 0.36 | - | - | 3.56 | - |
| 0530 | 7.65 | 14.80 | - | 0.51 | - | 0.51 | - | - | - |
| 0600 | 9.86 | 16.20 | - | 0.35 | - | 0.35 | - | 3.17 | - |
| 0630 | 6.00 | 13.50 | - | - | - | 0.50 | - | 1.50 | - |
| 0700 | 7.12 | 14.59 | - | - | - | - | - | 2.85 | - |
| 0730 | 1.53 | 11.22 | - | - | - | - | - | - | - |
| 0800 | 5.57 | 13.24 | - | - | - | - | - | 2.44 | - |
| 0830 | 2.97 | 11.39 | - | - | - | - | - | 1.49 | - |
| 0900 | 4.96 | 12.77 | - | - | - | - | - | 3.19 | - |
| 0930 | 2.00 | 10.00 | - | - | - | - | - | 0.50 | - |
| 1000 | 5.32 | 10.99 | - | - | - | - | - | 2.84 | - |
| 1030 | 2.00 | 7.50 | - | - | - | - | - | - | - |
| 1100 | 4.66 | 11.83 | - | - | - | - | - | 2.87 | - |
| 1130 | 1.98 | 9.90 | - | - | - | - | - | 0.99 | - |
| 1200 | 4.24 | 10.95 | - | - | - | - | - | 3.89 | - |
| 1230 | 0.51 | 10.66 | - | - | - | - | - | - | - |
| 1300 | 2.79 | 12.89 | - | - | - | - | - | 1.39 | - |
| 1330 | 1.51 | 13.07 | - | - | - | - | - | 0.50 | - |
| 1400 | 3.93 | 13.21 | - | - | - | - | - | 2.50 | - |
| 1430 | 2.02 | 14.14 | - | - | - | - | - | 0.51 | - |
| 1500 | 5.07 | 13.77 | - | - | - | - | - | 2.90 | - |
| 1530 | 2.99 | 11.44 | - | - | - | - | - | 0.50 | - |
| 1600 | 3.90 | 13.12 | - | - | - | - | - | 2.84 | - |
| 1630 | 4.00 | 10.50 | - | - | - | - | - | 1.00 | - |
| 1700 | 4.81 | 11.85 | - | - | - | - | - | 3.33 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 2.51 | 10.55 | - | 0.50 | - | - | - | 1.51 | - |
| 1800 | 6.52 | 11.59 | - | 0.36 | - | - | - | 3.62 | - |
| 1830 | 5.03 | 9.55 | - | - | 0.50 | - | - | - | - |
| 1900 | 6.07 | 11.79 | - | - | 0.36 | - | - | 2.14 | - |
| 1930 | 4.52 | 11.56 | - | - | 0.50 | - | - | - | - |
| 2000 | 7.69 | 14.23 | - | - | - | - | 0.38 | 3.08 | - |
| 2030 | 6.47 | 12.94 | - | - | - | - | 0.50 | 0.50 | 1.00 |
| 2100 | 8.43 | 12.45 | - | - | - | - | 0.40 | 2.81 | - |
| 2130 | 9.05 | 14.07 | - | - | - | - | - | 1.01 | - |
| 2200 | 7.92 | 13.58 | - | - | - | - | - | 3.02 | 1.13 |
| 2230 | 4.69 | 11.46 | - | - | - | - | - | 1.04 | 0.52 |
| 2300 | 8.33 | 14.29 | - | - | - | - | - | 2.38 | 0.40 |
| 2330 | 7.61 | 13.20 | - | - | - | - | 0.51 | 1.02 | 1.02 |
| Mean | 5.79 | 12.70 | - | 0.15 | 0.05 | 0.11 | 0.07 | 1.88 | 0.14 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in February are: rain – 12.70%, mist – 5.79%, snow – 1.88%.

No thunderstorm activities were observed in February.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

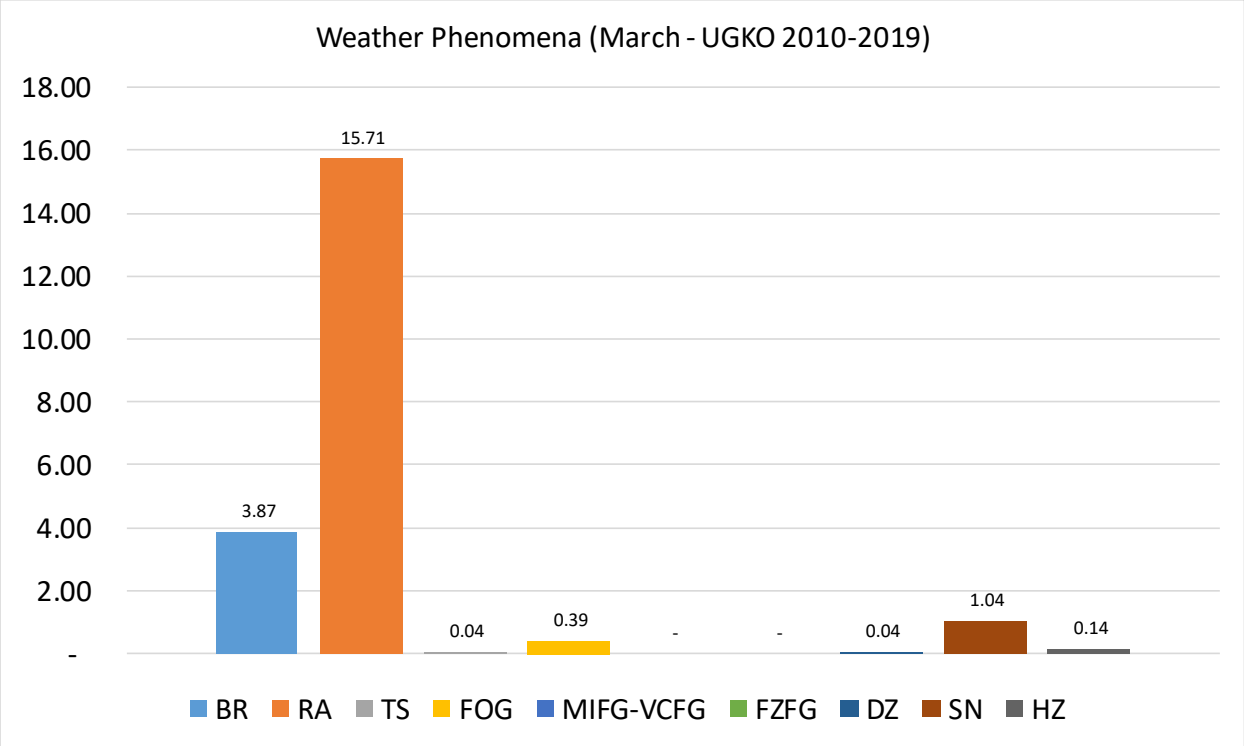
AERODROME: UGKO MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12648 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 7.91 | 17.63 | - | 1.08 | - | - | - | 2.52 | - |
| 0030 | 4.09 | 12.73 | - | 1.36 | - | - | - | - | 0.45 |
| 0100 | 7.05 | 17.63 | - | 1.28 | - | - | - | 3.21 | 0.32 |
| 0130 | 4.13 | 14.22 | - | 0.92 | - | - | - | - | 0.46 |
| 0200 | 8.11 | 18.24 | - | 0.68 | - | - | - | 1.69 | 0.34 |
| 0230 | 5.05 | 11.93 | - | 0.92 | - | - | - | - | - |
| 0300 | 8.71 | 15.81 | - | 1.29 | - | - | - | 1.94 | - |
| 0330 | 6.36 | 16.36 | - | 0.45 | - | - | - | 0.91 | 0.45 |
| 0400 | 8.33 | 20.19 | - | 1.60 | - | - | - | 1.92 | - |
| 0430 | 4.57 | 16.44 | - | 0.46 | - | - | - | 0.91 | - |
| 0500 | 8.39 | 19.68 | - | 0.32 | - | - | - | 2.58 | - |
| 0530 | 2.33 | 16.74 | - | - | - | - | 0.47 | - | - |
| 0600 | 6.49 | 19.16 | - | - | - | - | - | 2.27 | - |
| 0630 | 2.31 | 16.20 | - | - | - | - | - | - | - |
| 0700 | 5.50 | 17.48 | - | - | - | - | - | 1.94 | - |
| 0730 | 2.33 | 15.35 | - | - | - | - | - | - | - |
| 0800 | 3.91 | 16.29 | - | - | - | - | - | 1.63 | - |
| 0830 | 2.31 | 16.67 | - | - | - | - | - | 0.46 | - |
| 0900 | 3.22 | 14.15 | - | - | - | - | - | 2.25 | - |
| 0930 | 1.37 | 11.87 | - | - | - | - | - | - | - |
| 1000 | 3.56 | 18.12 | - | - | - | - | - | 1.94 | - |
| 1030 | 1.37 | 15.07 | - | - | - | - | - | - | - |
| 1100 | 1.96 | 14.38 | - | - | - | - | - | 0.98 | - |
| 1130 | 0.46 | 15.07 | - | - | - | - | - | 0.46 | - |
| 1200 | 2.93 | 16.61 | - | 0.33 | - | - | - | 1.30 | - |
| 1230 | 1.38 | 14.22 | - | - | - | - | - | - | - |
| 1300 | 1.64 | 14.75 | - | 0.33 | - | - | - | 1.64 | - |
| 1330 | 0.46 | 16.13 | - | - | - | - | - | - | - |
| 1400 | 2.00 | 17.33 | - | 0.33 | - | - | - | 1.00 | 0.33 |
| 1430 | 0.93 | 14.02 | - | - | - | - | - | - | 0.47 |
| 1500 | 1.00 | 17.28 | - | 0.33 | - | - | - | 1.66 | - |
| 1530 | 0.93 | 15.28 | - | - | - | - | - | 0.46 | - |
| 1600 | 1.95 | 17.92 | - | 0.33 | - | - | - | 0.98 | - |
| 1630 | 0.92 | 16.06 | - | - | - | - | - | 0.46 | - |
| 1700 | 4.41 | 15.93 | 0.34 | 0.34 | - | - | - | 2.03 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 3.70 | 13.43 | 0.46 | - | - | - | - | - | - |
| 1800 | 4.05 | 16.22 | 0.34 | 0.34 | - | - | 0.68 | 1.69 | - |
| 1830 | 1.86 | 12.56 | 0.47 | - | - | - | - | 0.47 | - |
| 1900 | 3.22 | 18.01 | 0.32 | 0.32 | - | - | - | 1.29 | - |
| 1930 | 3.23 | 13.36 | - | - | - | - | - | - | - |
| 2000 | 4.58 | 15.85 | - | 0.70 | - | - | - | 2.82 | - |
| 2030 | 5.14 | 12.15 | - | 0.47 | - | - | 0.47 | - | - |
| 2100 | 6.76 | 12.46 | - | 0.71 | - | - | - | 1.78 | 0.71 |
| 2130 | 4.17 | 15.28 | - | 0.46 | - | - | - | - | 0.46 |
| 2200 | 5.50 | 17.18 | - | 1.03 | - | - | - | 2.41 | - |
| 2230 | 3.21 | 14.68 | - | 0.92 | - | - | 0.46 | - | 0.92 |
| 2300 | 7.25 | 15.58 | - | 1.09 | - | - | - | 2.17 | 1.09 |
| 2330 | 4.72 | 14.62 | - | 0.47 | - | - | - | - | 0.94 |
| Mean | 3.87 | 15.71 | 0.04 | 0.39 | - | - | 0.04 | 1.04 | 0.14 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in March are: rain – 15.71%, mist – 3.87%, snow – 1.04%.

The activity of thunderstorms in March constitutes 0.04%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

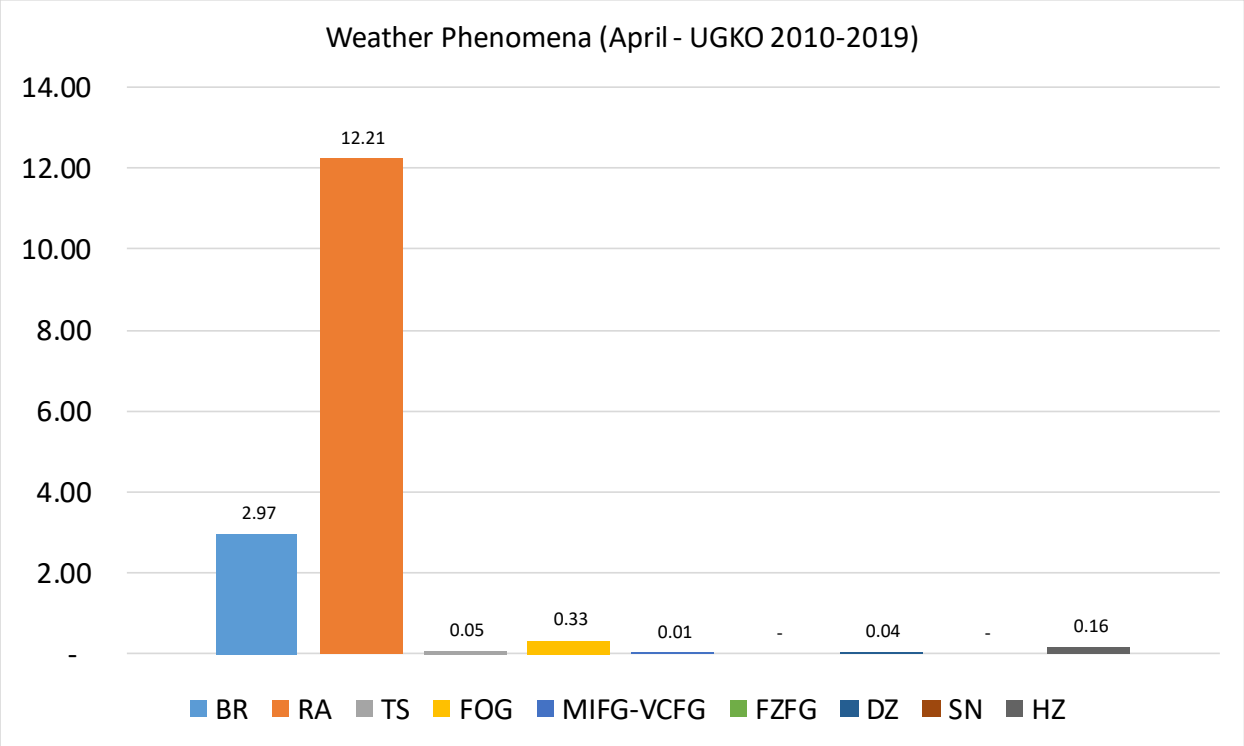
AERODROME: UGKO MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12240 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 5.90 | 14.76 | - | 0.37 | - | - | - | - | 0.37 |
| 0030 | 4.21 | 12.15 | - | 0.93 | - | - | - | - | 1.87 |
| 0100 | 5.67 | 14.00 | - | 1.00 | - | - | 0.67 | - | 0.33 |
| 0130 | 8.06 | 16.11 | - | 0.95 | - | - | 0.47 | - | - |
| 0200 | 9.68 | 14.70 | - | 1.43 | - | - | - | - | 0.72 |
| 0230 | 8.02 | 15.09 | - | 0.94 | 0.47 | - | - | - | - |
| 0300 | 11.78 | 16.16 | - | 2.69 | - | - | - | - | - |
| 0330 | 6.28 | 15.94 | - | 1.93 | - | - | - | - | - |
| 0400 | 8.70 | 15.72 | - | 2.34 | - | - | - | - | 0.33 |
| 0430 | 3.79 | 15.17 | - | 0.95 | - | - | - | - | - |
| 0500 | 7.02 | 16.05 | - | 1.34 | - | - | - | - | - |
| 0530 | 2.84 | 12.80 | - | - | - | - | - | - | - |
| 0600 | 4.38 | 12.79 | - | - | - | - | - | - | - |
| 0630 | 1.95 | 10.24 | - | - | - | - | - | - | - |
| 0700 | 2.03 | 10.17 | - | - | - | - | - | - | - |
| 0730 | 0.95 | 10.00 | - | - | - | - | - | - | - |
| 0800 | 1.01 | 10.47 | - | - | - | - | - | - | - |
| 0830 | 0.47 | 7.04 | - | - | - | - | - | - | 0.47 |
| 0900 | 1.68 | 10.10 | - | - | - | - | - | - | - |
| 0930 | 0.48 | 8.17 | - | - | - | - | - | - | - |
| 1000 | 1.00 | 7.00 | - | - | - | - | - | - | - |
| 1030 | 0.95 | 6.19 | - | - | - | - | - | - | - |
| 1100 | 1.02 | 6.46 | - | - | - | - | - | - | - |
| 1130 | 0.95 | 7.58 | - | - | - | - | - | - | - |
| 1200 | 0.68 | 8.90 | - | - | - | - | - | - | - |
| 1230 | 0.48 | 7.62 | - | - | - | - | - | - | - |
| 1300 | 0.67 | 8.36 | - | - | - | - | - | - | - |
| 1330 | 0.48 | 7.66 | - | - | - | - | - | - | - |
| 1400 | 1.03 | 9.59 | - | - | - | - | - | - | - |
| 1430 | 0.47 | 9.39 | 0.47 | - | - | - | - | - | - |
| 1500 | 1.67 | 8.03 | 0.67 | - | - | - | - | - | - |
| 1530 | 0.48 | 10.95 | - | - | - | - | - | - | 0.48 |
| 1600 | 1.68 | 14.14 | 0.34 | - | - | - | - | - | - |
| 1630 | 0.48 | 14.29 | 0.95 | - | - | - | - | - | - |
| 1700 | 1.74 | 17.07 | - | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.94 | 16.51 | - | - | - | - | - | - | - |
| 1800 | 1.40 | 15.79 | - | - | - | - | - | - | 0.35 |
| 1830 | 0.95 | 14.22 | - | - | - | - | - | - | - |
| 1900 | 2.03 | 15.59 | - | - | - | - | - | - | - |
| 1930 | 1.41 | 13.15 | - | - | - | - | - | - | - |
| 2000 | 4.07 | 14.81 | - | - | - | - | - | - | - |
| 2030 | 3.33 | 15.71 | - | - | - | - | - | - | 0.48 |
| 2100 | 3.24 | 12.95 | - | - | - | - | - | - | - |
| 2130 | 2.35 | 16.43 | - | - | - | - | - | - | 0.47 |
| 2200 | 2.76 | 16.55 | - | - | - | - | - | - | 0.34 |
| 2230 | 4.72 | 9.91 | - | - | - | - | - | - | - |
| 2300 | 3.69 | 12.55 | - | 0.37 | - | - | 0.37 | - | 0.37 |
| 2330 | 2.79 | 11.16 | - | 0.47 | - | - | 0.47 | - | 0.93 |
| Mean | 2.97 | 12.21 | 0.05 | 0.33 | 0.01 | - | 0.04 | - | 0.16 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in April are: rain – 12.21%, mist – 2.97%, fog – 0.33%.

The activity of thunderstorms in April constitutes 0.05%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

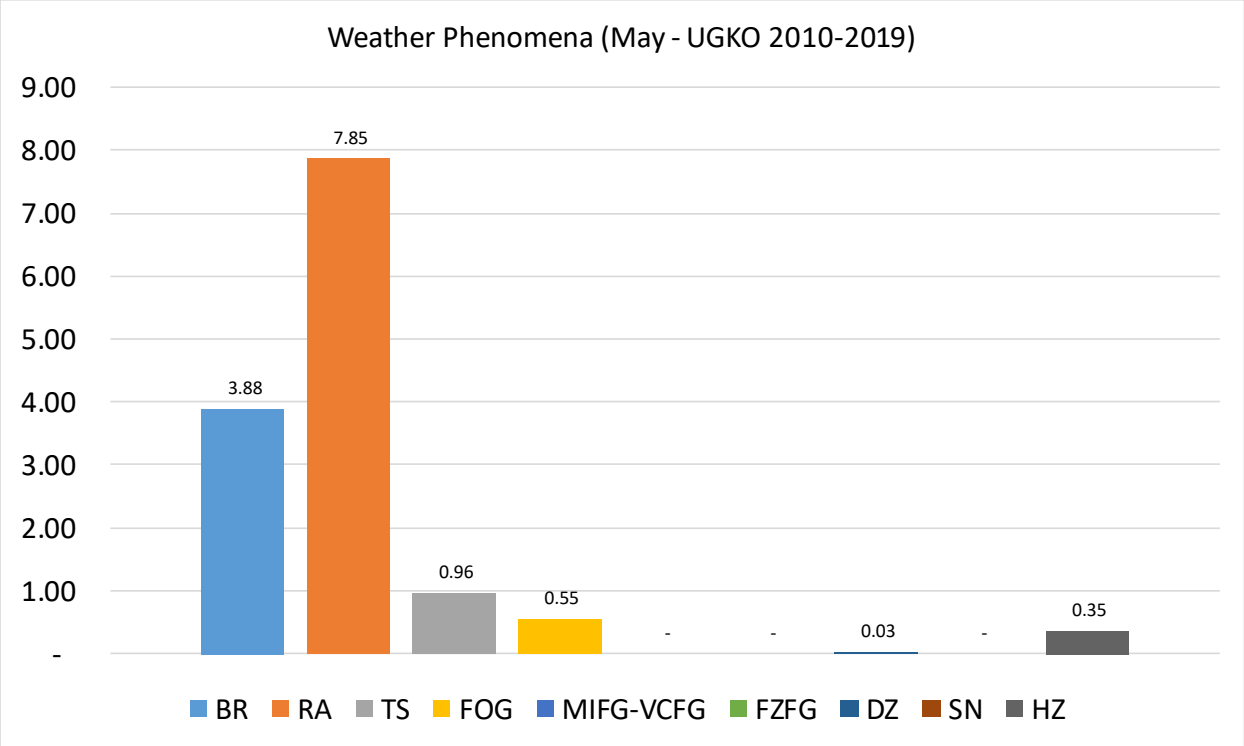
AERODROME: UGKO MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12648 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 9.42 | 7.97 | - | 2.17 | - | - | - | - | 1.81 |
| 0030 | 12.16 | 5.86 | - | 3.60 | - | - | - | - | 1.35 |
| 0100 | 9.45 | 6.51 | 0.33 | 1.95 | - | - | - | - | 2.93 |
| 0130 | 12.44 | 8.76 | 0.46 | 2.76 | - | - | 0.46 | - | 1.38 |
| 0200 | 16.89 | 11.59 | - | 2.98 | - | - | - | - | 0.66 |
| 0230 | 12.27 | 7.73 | - | 3.64 | - | - | - | - | 0.91 |
| 0300 | 16.01 | 9.15 | 0.98 | 1.96 | - | - | - | - | 1.31 |
| 0330 | 8.33 | 7.87 | 0.93 | 0.93 | - | - | - | - | 0.46 |
| 0400 | 9.42 | 7.79 | 0.32 | 0.97 | - | - | - | - | - |
| 0430 | 5.43 | 9.50 | - | 0.45 | - | - | - | - | - |
| 0500 | 5.81 | 10.97 | 0.65 | - | - | - | - | - | 0.32 |
| 0530 | 1.41 | 9.86 | 0.47 | - | - | - | - | - | - |
| 0600 | 3.23 | 7.42 | 0.32 | - | - | - | - | - | - |
| 0630 | 1.36 | 5.45 | 0.45 | - | - | - | - | - | - |
| 0700 | 2.25 | 8.68 | 0.32 | - | - | - | - | - | - |
| 0730 | 1.83 | 6.85 | - | - | - | - | - | - | - |
| 0800 | 0.97 | 4.52 | - | - | - | - | - | - | - |
| 0830 | 0.91 | 7.27 | - | - | - | - | - | - | - |
| 0900 | 0.97 | 7.77 | 0.97 | - | - | - | - | - | - |
| 0930 | 0.92 | 7.37 | 0.92 | - | - | - | - | - | - |
| 1000 | 0.32 | 5.50 | 0.65 | - | - | - | - | - | - |
| 1030 | 0.46 | 8.33 | 1.39 | - | - | - | - | - | 0.46 |
| 1100 | 0.65 | 6.49 | 0.32 | - | - | - | - | - | - |
| 1130 | - | 6.82 | 1.82 | - | - | - | - | - | 0.45 |
| 1200 | 0.65 | 8.17 | 1.63 | - | - | - | - | - | - |
| 1230 | - | 9.68 | 3.69 | - | - | - | - | - | - |
| 1300 | 0.32 | 8.09 | 2.59 | - | - | - | - | - | - |
| 1330 | - | 9.22 | 3.23 | - | - | - | - | - | - |
| 1400 | 0.68 | 7.09 | 2.36 | - | - | - | - | - | - |
| 1430 | - | 8.76 | 0.92 | - | - | - | - | - | - |
| 1500 | 0.33 | 8.28 | 1.32 | - | - | - | - | - | - |
| 1530 | 0.47 | 11.16 | 2.33 | - | - | - | - | - | - |
| 1600 | 0.65 | 11.61 | 2.90 | - | - | - | - | - | - |
| 1630 | 0.91 | 9.13 | 1.37 | - | - | - | - | - | - |
| 1700 | 1.01 | 8.45 | 2.36 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.92 | 5.05 | 0.46 | - | - | - | - | - | - |
| 1800 | 0.34 | 8.62 | 3.10 | - | - | - | - | - | - |
| 1830 | 2.30 | 6.91 | 2.30 | - | - | - | - | - | 0.46 |
| 1900 | 1.63 | 8.82 | 1.63 | - | - | - | - | - | 0.33 |
| 1930 | 2.27 | 7.27 | - | - | - | - | - | - | - |
| 2000 | 2.14 | 7.50 | 0.71 | - | - | - | - | - | 0.36 |
| 2030 | 2.29 | 6.88 | - | - | - | - | - | - | 0.46 |
| 2100 | 2.46 | 8.07 | 1.05 | - | - | - | - | - | 0.35 |
| 2130 | 4.05 | 6.76 | - | 0.45 | - | - | - | - | 0.45 |
| 2200 | 5.45 | 5.45 | 0.32 | - | - | - | - | - | 0.32 |
| 2230 | 7.48 | 5.14 | - | 0.93 | - | - | 0.47 | - | 0.47 |
| 2300 | 7.75 | 7.04 | - | 1.76 | - | - | 0.35 | - | 0.70 |
| 2330 | 9.17 | 7.80 | 0.46 | 1.83 | - | - | - | - | 0.92 |
| Mean | 3.88 | 7.85 | 0.96 | 0.55 | - | - | 0.03 | - | 0.35 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in May are: rain – 7.85%, mist – 3.88%, fog – 0.55%.

The activity of thunderstorms in May constitutes 0.96%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

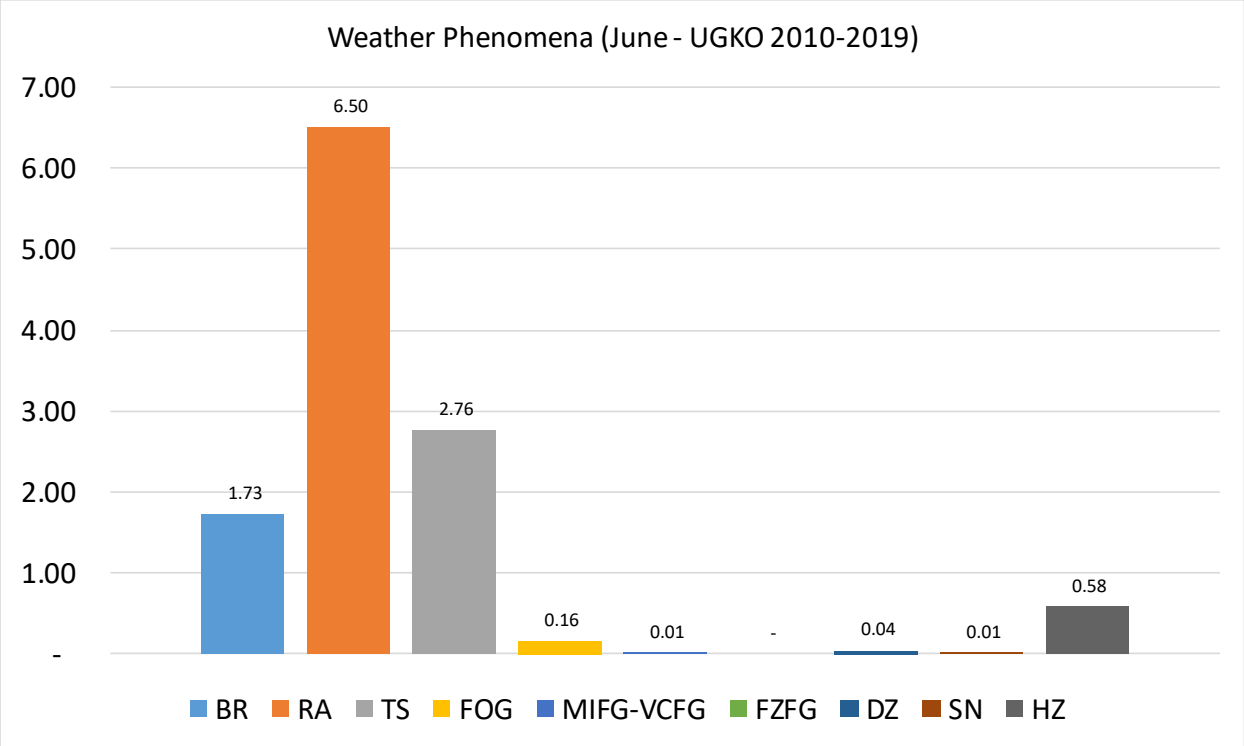
AERODROME: UGKO MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12240 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 3.61 | 7.22 | 1.81 | 1.08 | - | - | 0.72 | - | 2.53 |
| 0030 | 4.57 | 7.31 | 2.74 | 1.83 | - | - | - | - | 2.74 |
| 0100 | 6.08 | 8.78 | 1.69 | 1.01 | - | - | - | - | 2.03 |
| 0130 | 10.85 | 8.02 | 0.94 | 0.94 | 0.47 | - | - | - | 3.77 |
| 0200 | 9.31 | 7.24 | 0.69 | 1.03 | - | - | - | - | 1.38 |
| 0230 | 6.57 | 6.10 | - | 0.47 | - | - | 0.47 | - | 1.88 |
| 0300 | 4.32 | 6.64 | 0.33 | 1.00 | - | - | - | - | 0.66 |
| 0330 | 3.30 | 7.55 | 0.47 | - | - | - | - | - | - |
| 0400 | 2.64 | 6.60 | 0.33 | 0.33 | - | - | - | - | 0.33 |
| 0430 | - | 4.69 | 0.47 | - | - | - | - | - | - |
| 0500 | 0.66 | 2.99 | 0.33 | - | - | - | - | - | - |
| 0530 | - | 3.81 | - | - | - | - | - | - | - |
| 0600 | - | 3.67 | 0.33 | - | - | - | - | - | - |
| 0630 | - | 2.86 | 0.48 | - | - | - | - | - | - |
| 0700 | - | 2.64 | 0.33 | - | - | - | - | - | - |
| 0730 | - | 1.90 | 0.47 | - | - | - | - | - | - |
| 0800 | - | 4.04 | 1.01 | - | - | - | - | - | - |
| 0830 | - | 4.69 | 0.47 | - | - | - | - | - | - |
| 0900 | - | 5.08 | 1.69 | - | - | - | - | - | - |
| 0930 | - | 4.25 | 1.89 | - | - | - | - | - | - |
| 1000 | - | 5.02 | 2.34 | - | - | - | - | - | - |
| 1030 | - | 2.78 | 2.31 | - | - | - | - | - | - |
| 1100 | - | 3.73 | 4.41 | - | - | - | - | - | - |
| 1130 | - | 3.29 | 2.82 | - | - | - | - | - | - |
| 1200 | - | 3.07 | 4.10 | - | - | - | - | - | - |
| 1230 | - | 2.86 | 2.38 | - | - | - | - | - | - |
| 1300 | - | 6.00 | 4.67 | - | - | - | - | - | - |
| 1330 | - | 5.66 | 4.25 | - | - | - | - | - | - |
| 1400 | 0.34 | 5.78 | 5.44 | - | - | - | - | - | - |
| 1430 | - | 7.55 | 3.77 | - | - | - | - | - | - |
| 1500 | - | 6.67 | 6.67 | - | - | - | - | - | - |
| 1530 | 0.48 | 7.18 | 5.26 | - | - | - | - | - | - |
| 1600 | 0.33 | 8.67 | 6.33 | - | - | - | - | - | - |
| 1630 | 0.47 | 8.06 | 3.79 | - | - | - | - | - | 0.47 |
| 1700 | 0.35 | 10.73 | 5.88 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.47 | 9.48 | 6.16 | - | - | - | - | 0.47 | - |
| 1800 | 0.35 | 9.03 | 6.60 | - | - | - | - | - | - |
| 1830 | 1.42 | 10.38 | 4.72 | - | - | - | - | - | - |
| 1900 | 0.68 | 12.20 | 6.78 | - | - | - | 0.34 | - | - |
| 1930 | 0.93 | 11.57 | 6.02 | - | - | - | - | - | 0.46 |
| 2000 | 1.09 | 11.59 | 4.35 | - | - | - | - | - | - |
| 2030 | 2.35 | 8.92 | 3.29 | - | - | - | - | - | 0.94 |
| 2100 | 1.82 | 9.09 | 2.91 | - | - | - | 0.36 | - | 1.09 |
| 2130 | 4.67 | 7.94 | 2.80 | - | - | - | - | - | 1.40 |
| 2200 | 2.66 | 7.97 | 2.99 | - | - | - | - | - | 1.99 |
| 2230 | 4.31 | 7.66 | 1.91 | - | - | - | - | - | 1.91 |
| 2300 | 4.76 | 7.69 | 1.47 | - | - | - | - | - | 0.37 |
| 2330 | 3.70 | 5.56 | 1.39 | - | - | - | - | - | 3.70 |
| Mean | 1.73 | 6.50 | 2.76 | 0.16 | 0.01 | - | 0.04 | 0.01 | 0.58 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in June are: rain – 6.50%, mist – 1.73%, haze – 0.58%.

The activity of thunderstorms in June constitutes 2.76%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

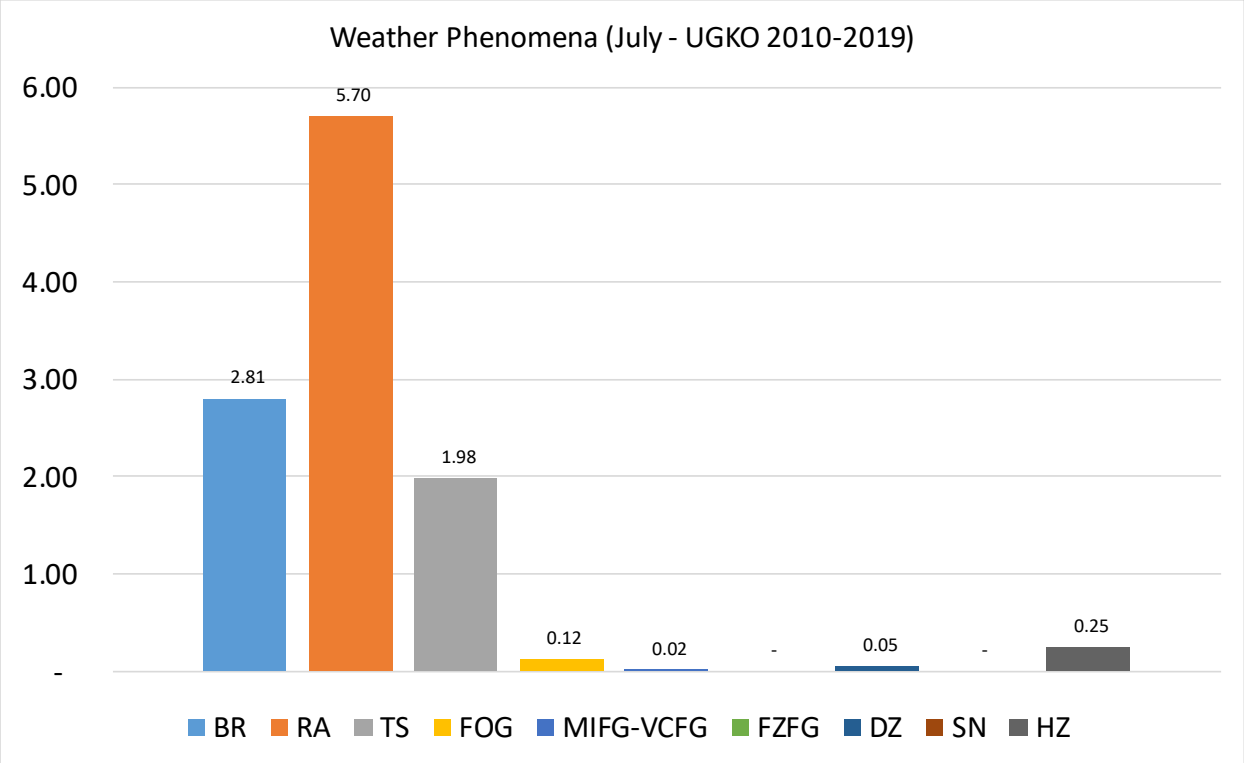
AERODROME: UGKO MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12648 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 7.77 | 5.65 | 2.47 | - | 0.35 | - | 0.35 | - | 1.77 |
| 0030 | 10.81 | 4.95 | 1.80 | - | 0.45 | - | 0.45 | - | 0.90 |
| 0100 | 8.71 | 6.13 | 2.26 | 0.32 | - | - | - | - | 0.65 |
| 0130 | 13.96 | 8.11 | 0.90 | 0.45 | - | - | - | - | 2.70 |
| 0200 | 14.24 | 8.61 | 0.66 | 1.32 | - | - | - | - | 0.33 |
| 0230 | 10.60 | 8.76 | 1.38 | 1.84 | - | - | 0.46 | - | - |
| 0300 | 7.47 | 7.47 | 0.65 | 0.65 | - | - | - | - | 0.65 |
| 0330 | 5.02 | 6.85 | - | 0.46 | - | - | - | - | - |
| 0400 | 4.55 | 3.90 | 0.97 | - | - | - | - | - | - |
| 0430 | 1.79 | 6.73 | 0.45 | 0.45 | - | - | - | - | - |
| 0500 | 1.96 | 4.58 | 0.98 | - | - | - | - | - | - |
| 0530 | 0.46 | 6.45 | 0.46 | - | - | - | - | - | - |
| 0600 | 0.32 | 3.86 | 0.96 | - | - | - | - | - | - |
| 0630 | 0.46 | 5.07 | 0.92 | - | - | - | - | - | - |
| 0700 | 0.97 | 3.87 | 1.94 | - | - | - | - | - | - |
| 0730 | 0.91 | 3.65 | 1.37 | - | - | - | - | - | - |
| 0800 | 0.32 | 4.55 | 1.62 | 0.32 | - | - | - | - | - |
| 0830 | 0.46 | 4.63 | 0.93 | - | - | - | - | - | - |
| 0900 | 0.32 | 3.55 | 1.61 | - | - | - | - | - | - |
| 0930 | 0.46 | 5.94 | - | - | - | - | - | - | - |
| 1000 | 0.32 | 4.53 | 0.65 | - | - | - | - | - | - |
| 1030 | 0.46 | 4.11 | - | - | - | - | - | - | - |
| 1100 | 0.32 | 3.54 | 0.96 | - | - | - | - | - | - |
| 1130 | - | 5.53 | 0.46 | - | - | - | - | - | - |
| 1200 | 0.33 | 3.93 | 0.98 | - | - | - | - | - | - |
| 1230 | - | 4.65 | 0.93 | - | - | - | - | - | - |
| 1300 | 0.65 | 5.52 | 2.27 | - | - | - | - | - | - |
| 1330 | - | 4.57 | 1.37 | - | - | - | - | - | - |
| 1400 | 0.32 | 2.27 | 2.92 | - | - | - | - | - | - |
| 1430 | 0.46 | 4.57 | 3.20 | - | - | - | - | - | - |
| 1500 | 1.29 | 4.18 | 3.54 | - | - | - | - | - | - |
| 1530 | 0.91 | 4.57 | 4.11 | - | - | - | - | - | - |
| 1600 | 0.65 | 4.22 | 4.87 | - | - | - | - | - | - |
| 1630 | 0.92 | 6.45 | 3.23 | - | - | - | - | - | - |
| 1700 | 0.99 | 5.30 | 2.98 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 1.37 | 6.39 | 0.46 | - | - | - | - | - | - |
| 1800 | 1.65 | 5.28 | 3.63 | - | - | - | - | - | - |
| 1830 | 1.83 | 7.80 | 2.75 | - | - | - | - | - | - |
| 1900 | 2.27 | 7.79 | 4.22 | - | - | - | - | - | - |
| 1930 | 2.26 | 6.33 | 3.62 | - | - | - | - | - | - |
| 2000 | 1.77 | 7.77 | 3.89 | - | - | - | 0.35 | - | - |
| 2030 | 0.93 | 4.65 | 3.72 | - | - | - | - | - | - |
| 2100 | 2.11 | 9.51 | 4.93 | - | - | - | - | - | 1.06 |
| 2130 | 3.56 | 7.11 | 2.22 | - | - | - | 0.44 | - | 1.33 |
| 2200 | 2.94 | 9.48 | 2.94 | - | - | - | - | - | 0.65 |
| 2230 | 4.11 | 5.94 | 1.83 | - | - | - | 0.46 | - | 0.46 |
| 2300 | 4.66 | 6.45 | 3.23 | - | - | - | - | - | 0.72 |
| 2330 | 6.10 | 7.98 | 2.82 | - | - | - | - | - | 0.94 |
| Mean | 2.81 | 5.70 | 1.98 | 0.12 | 0.02 | - | 0.05 | - | 0.25 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in July are: rain – 5.70%, mist – 2.81%, haze – 0.25%.

The activity of thunderstorms in July constitutes 1.98%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

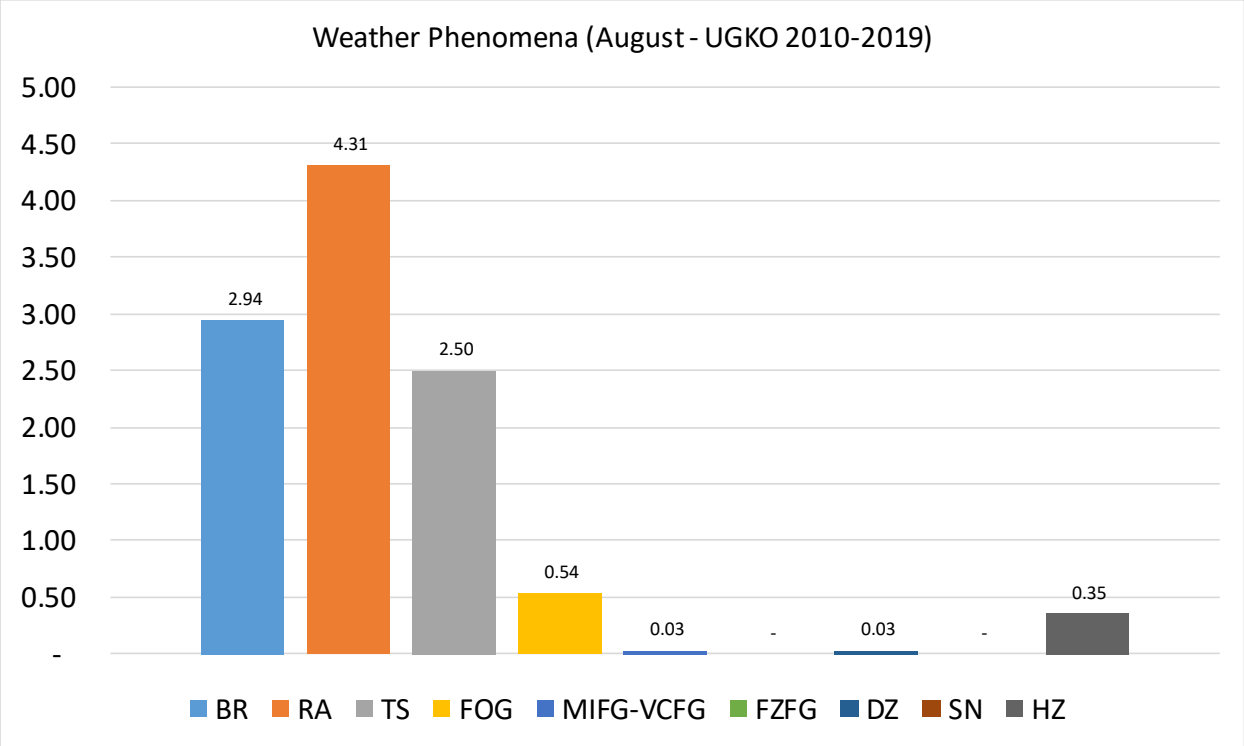
AERODROME: UGKO MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12648 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 6.12 | 5.76 | 3.24 | 0.36 | - | - | 0.36 | - | 2.52 |
| 0030 | 9.35 | 6.07 | 2.80 | - | - | - | 0.47 | - | - |
| 0100 | 9.36 | 5.35 | 3.01 | 0.33 | - | - | - | - | 1.00 |
| 0130 | 14.81 | 5.56 | 1.85 | 1.39 | - | - | - | - | 2.31 |
| 0200 | 14.43 | 4.47 | 1.37 | 2.41 | - | - | - | - | 1.03 |
| 0230 | 14.95 | 2.80 | 1.87 | 4.21 | 0.93 | - | - | - | 0.93 |
| 0300 | 13.77 | 4.59 | 0.66 | 4.92 | - | - | - | - | 0.33 |
| 0330 | 11.27 | 3.29 | 0.47 | 4.69 | 0.47 | - | - | - | 1.41 |
| 0400 | 6.21 | 4.25 | 0.65 | 1.96 | - | - | - | - | 0.33 |
| 0430 | 4.65 | 5.12 | 0.47 | 1.86 | - | - | - | - | - |
| 0500 | 1.61 | 2.89 | 0.32 | 0.64 | - | - | - | - | - |
| 0530 | 0.92 | 4.61 | 1.84 | - | - | - | - | - | - |
| 0600 | 0.99 | 2.98 | 0.66 | - | - | - | - | - | - |
| 0630 | 0.47 | 1.40 | 1.40 | - | - | - | - | - | - |
| 0700 | 0.33 | 2.30 | 0.98 | - | - | - | - | - | - |
| 0730 | - | 2.33 | - | - | - | - | - | - | 0.47 |
| 0800 | 0.33 | 2.99 | 0.66 | - | - | - | - | - | - |
| 0830 | 0.46 | 1.85 | 1.39 | - | - | - | - | - | - |
| 0900 | 0.65 | 2.60 | 1.30 | - | - | - | - | - | - |
| 0930 | 0.47 | 1.88 | 1.88 | - | - | - | - | - | - |
| 1000 | 0.65 | 3.27 | 0.33 | - | - | - | - | - | - |
| 1030 | 0.46 | 3.24 | - | - | - | - | - | - | - |
| 1100 | - | 1.63 | 0.65 | - | - | - | - | - | - |
| 1130 | - | 1.39 | - | - | - | - | - | - | - |
| 1200 | - | 1.96 | 0.65 | - | - | - | - | - | - |
| 1230 | - | 2.76 | 1.38 | - | - | - | - | - | - |
| 1300 | - | 2.27 | 1.29 | - | - | - | - | - | - |
| 1330 | - | 4.21 | 1.87 | - | - | - | - | - | - |
| 1400 | - | 3.57 | 2.27 | - | - | - | - | - | - |
| 1430 | - | 4.65 | 2.33 | - | - | - | - | - | - |
| 1500 | 0.33 | 2.63 | 2.30 | - | - | - | - | - | - |
| 1530 | 0.45 | 3.64 | 2.73 | - | - | - | - | - | - |
| 1600 | 0.66 | 3.30 | 2.97 | - | - | - | - | - | - |
| 1630 | 0.47 | 3.74 | 3.27 | - | - | - | - | - | - |
| 1700 | 1.00 | 5.35 | 4.68 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 5.61 | 6.54 | - | - | - | - | - | - |
| 1800 | 0.68 | 7.82 | 8.84 | - | - | - | - | - | - |
| 1830 | 0.48 | 6.22 | 5.26 | - | - | - | - | - | - |
| 1900 | 0.67 | 7.74 | 8.42 | - | - | - | - | - | - |
| 1930 | 0.48 | 4.83 | 2.90 | - | - | - | - | - | 0.48 |
| 2000 | 0.73 | 6.91 | 5.82 | - | - | - | - | - | - |
| 2030 | 0.93 | 4.67 | 2.34 | - | - | - | - | - | 0.47 |
| 2100 | 2.92 | 6.57 | 4.74 | - | - | - | - | - | - |
| 2130 | 2.34 | 6.54 | 3.27 | 0.93 | - | - | - | - | 0.93 |
| 2200 | 3.01 | 8.36 | 4.68 | 0.33 | - | - | - | - | 2.01 |
| 2230 | 4.23 | 7.98 | 6.10 | 0.94 | - | - | 0.47 | - | 0.47 |
| 2300 | 5.11 | 6.20 | 4.38 | 0.36 | - | - | - | - | 0.36 |
| 2330 | 4.55 | 6.82 | 3.18 | 0.45 | - | - | - | - | 1.82 |
| Mean | 2.94 | 4.31 | 2.50 | 0.54 | 0.03 | - | 0.03 | - | 0.35 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in August are: rain – 4.31%, mist – 2.94%, fog – 0.54%.

The activity of thunderstorms in August constitutes 2.50%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

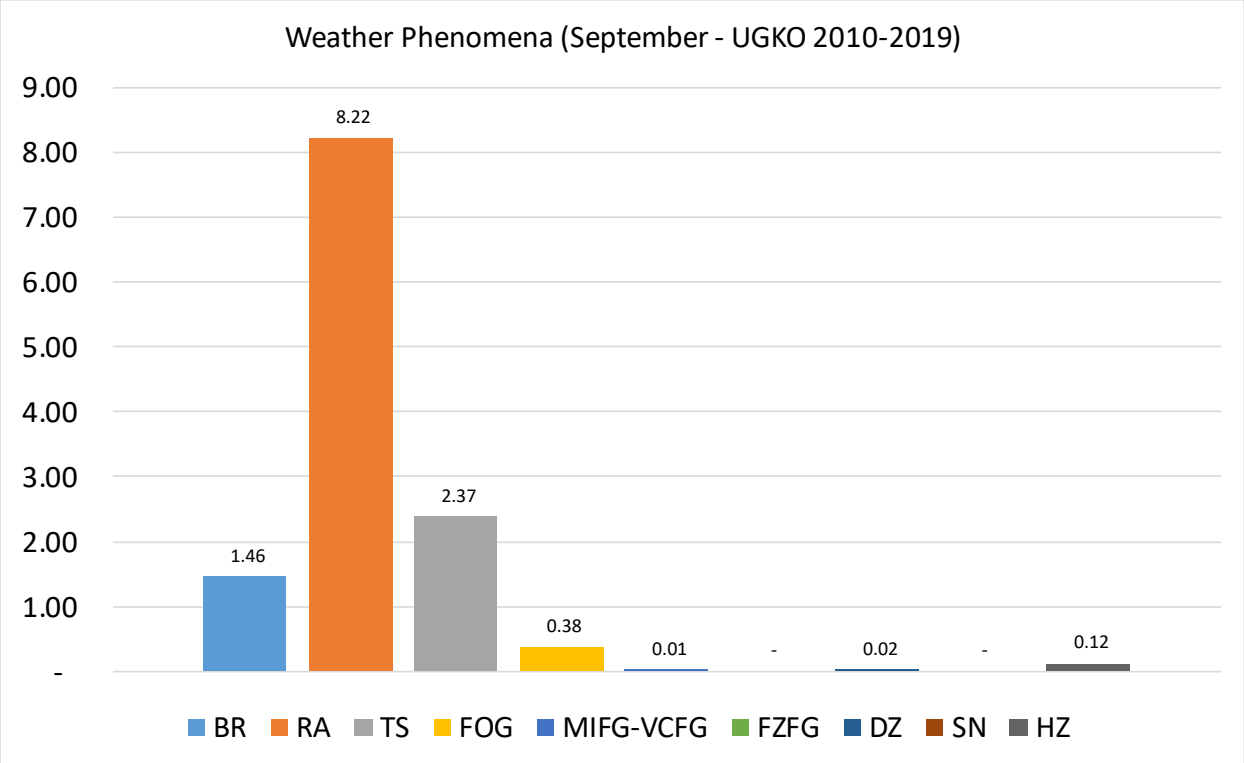
AERODROME: UGKO MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12240 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 3.62 | 10.20 | 3.62 | - | - | - | - | - | 0.99 |
| 0030 | 4.72 | 10.38 | 2.83 | 0.47 | - | - | - | - | 0.47 |
| 0100 | 4.23 | 10.10 | 1.95 | 0.98 | - | - | - | - | 0.33 |
| 0130 | 5.99 | 11.98 | 2.30 | 1.38 | - | - | - | - | 0.46 |
| 0200 | 7.57 | 10.20 | 2.63 | 1.97 | 0.33 | - | - | - | 0.33 |
| 0230 | 6.54 | 9.81 | 2.34 | 2.34 | - | - | - | - | 0.93 |
| 0300 | 6.33 | 9.00 | 1.67 | 3.00 | - | - | - | - | - |
| 0330 | 4.31 | 9.57 | 1.44 | 3.35 | - | - | - | - | - |
| 0400 | 3.67 | 9.67 | 1.33 | 1.67 | 0.33 | - | - | - | - |
| 0430 | 2.40 | 9.13 | 1.44 | 0.48 | - | - | - | - | - |
| 0500 | 1.32 | 7.95 | 1.32 | 0.33 | - | - | - | - | - |
| 0530 | - | 8.06 | 0.95 | 0.47 | - | - | - | - | - |
| 0600 | 0.67 | 6.69 | 1.34 | - | - | - | - | - | - |
| 0630 | - | 6.51 | 0.47 | - | - | - | - | - | - |
| 0700 | - | 5.74 | 1.01 | - | - | - | - | - | - |
| 0730 | 0.48 | 6.22 | 0.48 | - | - | - | - | - | - |
| 0800 | - | 6.06 | 1.01 | - | - | - | - | - | - |
| 0830 | - | 6.07 | - | - | - | - | - | - | - |
| 0900 | - | 7.36 | 0.67 | - | - | - | - | - | - |
| 0930 | - | 5.63 | 0.47 | - | - | - | - | - | - |
| 1000 | 0.34 | 7.09 | 0.68 | - | - | - | - | - | - |
| 1030 | 0.48 | 5.26 | 0.48 | - | - | - | - | - | - |
| 1100 | 0.34 | 6.44 | 1.69 | - | - | - | - | - | - |
| 1130 | 0.48 | 6.19 | 0.95 | - | - | - | - | - | - |
| 1200 | - | 7.97 | 3.99 | - | - | - | - | - | - |
| 1230 | - | 3.30 | 1.42 | - | - | - | - | - | - |
| 1300 | - | 7.07 | 2.69 | - | - | - | - | - | - |
| 1330 | - | 8.13 | 2.39 | - | - | - | - | - | - |
| 1400 | - | 5.37 | 2.01 | - | - | - | - | - | 0.34 |
| 1430 | - | 7.21 | 1.92 | - | - | - | - | - | - |
| 1500 | - | 8.45 | 2.36 | - | - | - | - | - | - |
| 1530 | - | 10.00 | 2.38 | - | - | - | - | - | - |
| 1600 | - | 9.30 | 3.99 | - | - | - | - | - | - |
| 1630 | - | 11.22 | 4.88 | - | - | - | - | - | - |
| 1700 | - | 7.77 | 5.07 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 10.00 | 5.71 | - | - | - | 0.48 | - | - |
| 1800 | 0.33 | 9.36 | 4.35 | - | - | - | - | - | - |
| 1830 | 0.94 | 8.49 | 5.66 | - | - | - | - | - | - |
| 1900 | 0.67 | 8.39 | 5.37 | - | - | - | - | - | - |
| 1930 | 0.95 | 7.58 | 4.27 | - | - | - | - | - | - |
| 2000 | 0.33 | 9.27 | 3.31 | - | - | - | - | - | - |
| 2030 | 0.48 | 9.13 | 2.88 | - | - | - | 0.48 | - | 0.48 |
| 2100 | 0.68 | 9.80 | 2.70 | - | - | - | - | - | - |
| 2130 | 1.90 | 7.11 | 2.37 | - | - | - | - | - | 0.47 |
| 2200 | 1.67 | 6.69 | 2.34 | 0.33 | - | - | - | - | 0.33 |
| 2230 | 1.88 | 9.86 | 3.29 | 0.94 | - | - | - | - | - |
| 2300 | 2.34 | 10.37 | 2.68 | 0.33 | - | - | - | - | 0.67 |
| 2330 | 4.21 | 11.21 | 2.80 | - | - | - | - | - | - |
| Mean | 1.46 | 8.22 | 2.37 | 0.38 | 0.01 | - | 0.02 | - | 0.12 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in September are: rain – 8.22%, mist – 1.46%, fog – 0.38%.

The activity of thunderstorms in September constitutes 2.37%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

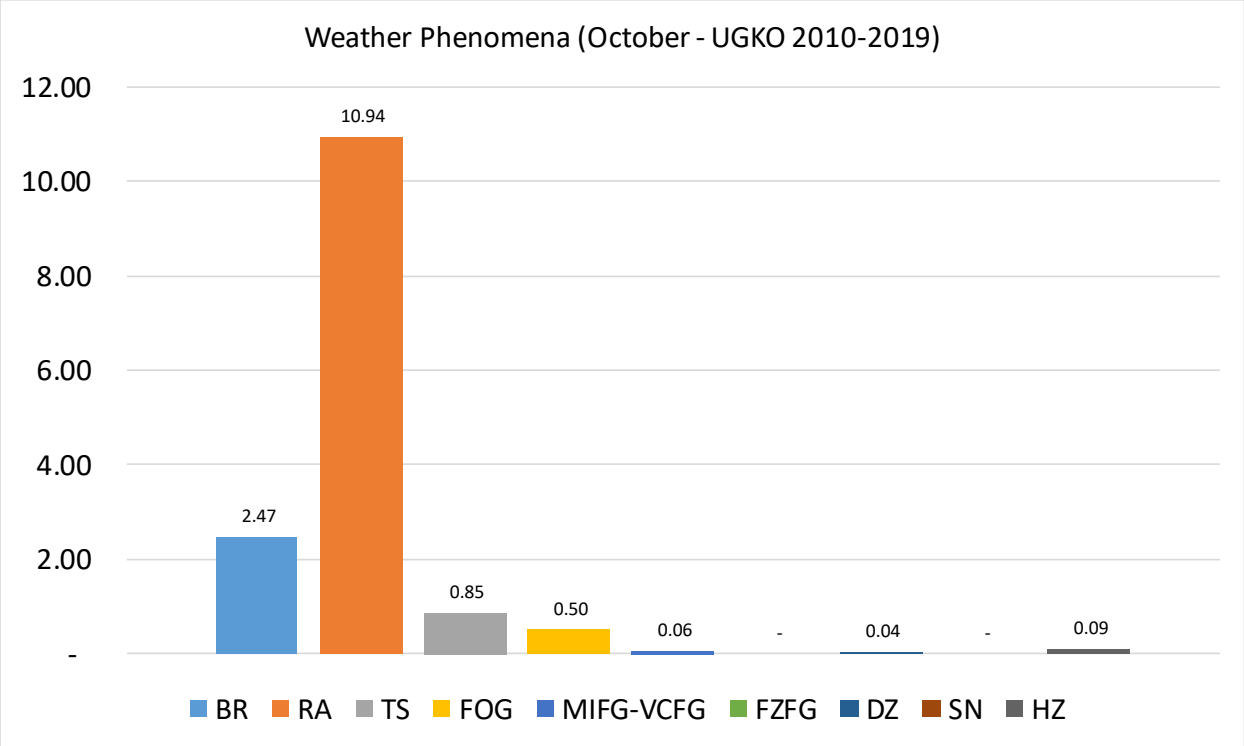
AERODROME: UGKO MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12648 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 6.29 | 10.49 | 1.05 | 1.75 | - | - | - | - | 0.70 |
| 0030 | 7.65 | 12.57 | 0.55 | 1.64 | - | - | - | - | 0.55 |
| 0100 | 5.16 | 13.23 | 1.29 | 1.94 | 0.65 | - | - | - | 0.32 |
| 0130 | 9.04 | 11.17 | 0.53 | 1.60 | 0.53 | - | - | - | 0.53 |
| 0200 | 8.17 | 16.01 | 1.96 | 0.98 | - | - | - | - | - |
| 0230 | 8.51 | 12.23 | 1.60 | 1.60 | - | - | - | - | - |
| 0300 | 5.50 | 14.56 | 0.97 | 0.97 | - | - | - | - | - |
| 0330 | 5.95 | 11.89 | 0.54 | 2.16 | - | - | - | - | - |
| 0400 | 4.87 | 14.61 | 0.65 | 1.62 | 0.97 | - | - | - | - |
| 0430 | 3.17 | 11.11 | 0.53 | 2.65 | 0.53 | - | - | - | - |
| 0500 | 2.59 | 12.94 | 0.65 | 1.94 | - | - | - | - | - |
| 0530 | 3.11 | 7.77 | - | - | - | - | - | - | - |
| 0600 | 2.27 | 12.94 | 0.32 | 0.32 | - | - | - | - | - |
| 0630 | 0.52 | 9.79 | - | - | - | - | - | - | - |
| 0700 | 0.98 | 10.75 | 0.33 | - | - | - | - | - | - |
| 0730 | 0.53 | 7.45 | - | - | - | - | - | - | - |
| 0800 | 1.31 | 12.09 | - | - | - | - | - | - | - |
| 0830 | - | 9.24 | - | - | - | - | - | - | - |
| 0900 | 0.65 | 10.36 | 0.32 | - | - | - | - | - | - |
| 0930 | 0.53 | 8.56 | - | - | - | - | 0.53 | - | - |
| 1000 | 0.97 | 8.09 | - | - | - | - | - | - | - |
| 1030 | - | 8.65 | - | - | - | - | - | - | - |
| 1100 | - | 8.74 | 0.32 | - | - | - | - | - | - |
| 1130 | - | 7.78 | - | - | - | - | - | - | 0.56 |
| 1200 | - | 9.03 | - | - | - | - | - | - | - |
| 1230 | - | 8.90 | 0.52 | - | - | - | - | - | - |
| 1300 | - | 8.52 | - | - | - | - | - | - | - |
| 1330 | - | 9.19 | 0.54 | - | - | - | - | - | - |
| 1400 | - | 5.56 | 0.33 | - | - | - | - | - | - |
| 1430 | - | 6.45 | 1.61 | - | - | - | - | - | - |
| 1500 | 0.33 | 7.82 | 1.30 | - | - | - | - | - | - |
| 1530 | - | 11.05 | 3.16 | - | - | - | - | - | - |
| 1600 | 0.97 | 10.36 | 1.94 | - | - | - | - | - | - |
| 1630 | - | 11.29 | 1.61 | - | - | - | - | - | - |
| 1700 | 0.97 | 10.06 | 2.27 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 11.70 | 1.60 | - | - | - | - | - | - |
| 1800 | 1.30 | 10.42 | 1.95 | - | - | - | - | - | - |
| 1830 | 1.08 | 12.43 | 1.62 | - | - | - | - | - | - |
| 1900 | 2.27 | 12.66 | 1.95 | - | - | - | - | - | - |
| 1930 | 1.60 | 12.30 | 2.14 | - | - | - | 0.53 | - | - |
| 2000 | 4.47 | 13.40 | 0.69 | - | - | - | 0.34 | - | 0.34 |
| 2030 | 2.16 | 14.05 | 0.54 | - | - | - | - | - | - |
| 2100 | 4.47 | 12.03 | 1.03 | - | - | - | - | - | 0.34 |
| 2130 | 3.83 | 12.02 | 1.09 | 0.55 | - | - | - | - | - |
| 2200 | 3.62 | 11.51 | - | 0.66 | - | - | 0.33 | - | - |
| 2230 | 5.32 | 13.30 | 0.53 | 0.53 | - | - | - | - | 1.06 |
| 2300 | 3.44 | 14.09 | 1.37 | 1.72 | - | - | - | - | - |
| 2330 | 4.84 | 13.98 | 1.61 | 1.61 | - | - | - | - | - |
| Mean | 2.47 | 10.94 | 0.85 | 0.50 | 0.06 | - | 0.04 | - | 0.09 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in October are: rain – 10.94%, mist – 2.47%, fog – 0.50%.

The activity of thunderstorms in October constitutes 0.85%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

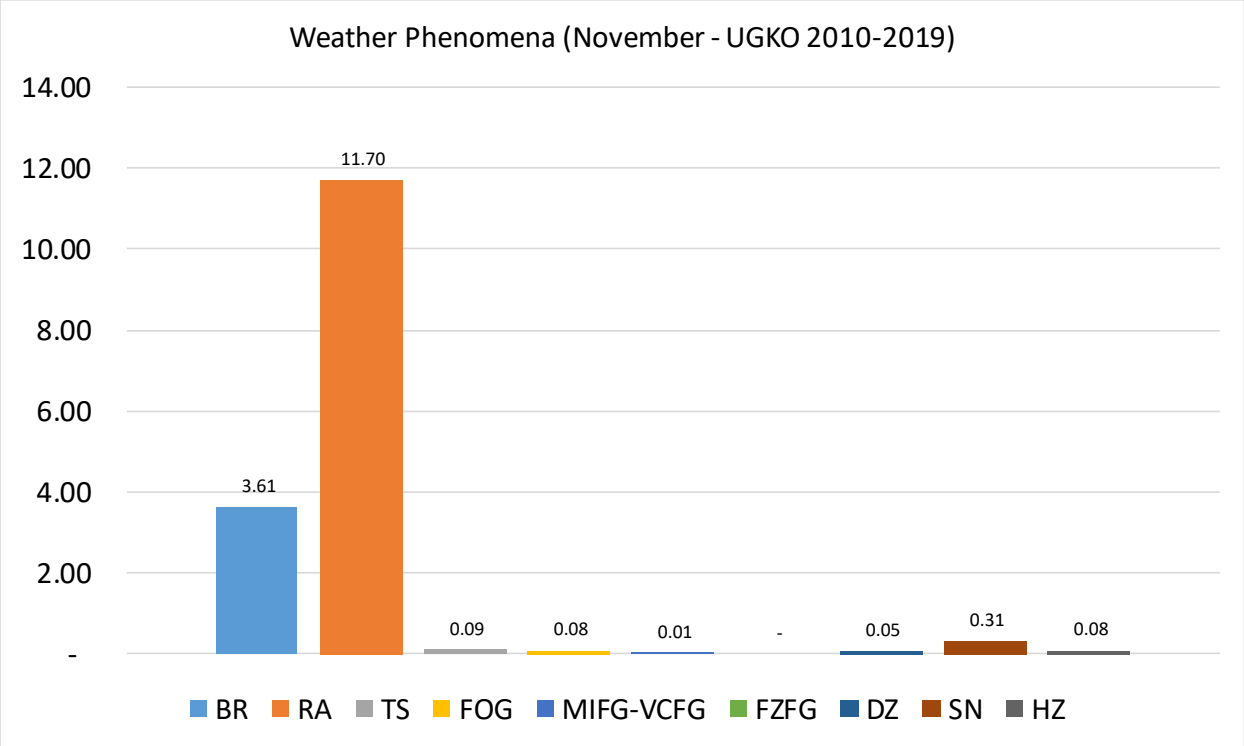
AERODROME: UGKO MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12240 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 4.71 | 14.81 | - | 1.01 | - | - | - | 0.34 | - |
| 0030 | 4.72 | 14.15 | - | 0.47 | - | - | 0.47 | - | 0.47 |
| 0100 | 5.23 | 13.40 | - | 0.65 | - | - | 0.33 | 0.33 | - |
| 0130 | 6.51 | 13.49 | - | 0.47 | - | - | - | 0.47 | - |
| 0200 | 6.31 | 13.95 | - | - | - | - | - | 0.33 | - |
| 0230 | 7.41 | 11.57 | - | - | - | - | - | - | 0.46 |
| 0300 | 7.64 | 13.29 | - | - | - | - | - | 0.33 | 0.33 |
| 0330 | 5.61 | 12.62 | - | - | - | - | - | - | 0.47 |
| 0400 | 4.65 | 14.62 | - | - | 0.33 | - | 0.33 | 0.66 | - |
| 0430 | 5.61 | 13.08 | - | - | - | - | - | - | - |
| 0500 | 3.64 | 13.25 | - | - | - | - | - | - | - |
| 0530 | 2.37 | 12.80 | - | - | - | - | - | - | - |
| 0600 | 3.63 | 12.87 | - | - | - | - | - | - | - |
| 0630 | 2.36 | 12.26 | - | - | - | - | - | - | - |
| 0700 | 1.98 | 12.54 | - | - | - | - | - | 0.99 | - |
| 0730 | 0.48 | 11.43 | - | - | - | - | - | - | - |
| 0800 | 2.63 | 12.83 | - | - | - | - | - | 0.66 | - |
| 0830 | 1.86 | 13.02 | - | - | - | - | - | - | - |
| 0900 | 2.01 | 10.03 | 0.33 | - | - | - | - | 0.33 | - |
| 0930 | 1.39 | 10.19 | - | - | - | - | - | - | - |
| 1000 | 1.32 | 10.60 | 0.33 | - | - | - | - | 0.66 | - |
| 1030 | 0.94 | 10.33 | - | - | - | - | - | - | - |
| 1100 | 1.33 | 9.00 | - | - | - | - | - | 0.67 | - |
| 1130 | 0.93 | 8.88 | 0.47 | - | - | - | - | 0.47 | - |
| 1200 | 1.32 | 9.54 | 0.99 | - | - | - | - | 0.33 | - |
| 1230 | 1.42 | 10.43 | 0.47 | - | - | - | - | 0.47 | - |
| 1300 | 1.00 | 8.97 | 0.33 | - | - | - | - | 0.33 | - |
| 1330 | 0.93 | 12.15 | - | - | - | - | - | 0.47 | - |
| 1400 | 1.01 | 10.74 | 0.34 | - | - | - | - | 0.34 | - |
| 1430 | 1.86 | 11.63 | - | - | - | - | - | - | - |
| 1500 | 1.99 | 10.30 | 0.33 | - | - | - | - | 0.33 | - |
| 1530 | 2.31 | 10.19 | - | - | - | - | - | - | - |
| 1600 | 3.00 | 9.33 | 0.33 | - | - | - | - | 0.33 | - |
| 1630 | 2.70 | 9.91 | 0.45 | - | - | - | - | - | - |
| 1700 | 2.98 | 11.92 | - | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 3.17 | 12.22 | - | - | - | - | - | 0.45 | 0.45 |
| 1800 | 3.97 | 14.57 | - | - | - | - | - | 0.33 | - |
| 1830 | 4.25 | 10.85 | - | - | - | - | - | 0.47 | - |
| 1900 | 4.35 | 12.04 | - | 0.33 | - | - | - | 0.33 | 0.33 |
| 1930 | 4.74 | 9.95 | - | - | - | - | - | 0.47 | - |
| 2000 | 5.67 | 11.00 | - | - | - | - | - | 0.67 | 0.33 |
| 2030 | 5.99 | 10.60 | - | 0.46 | - | - | - | - | - |
| 2100 | 6.27 | 10.56 | - | 0.33 | - | - | - | 0.99 | 0.33 |
| 2130 | 6.60 | 11.79 | - | - | - | - | 1.42 | 0.94 | - |
| 2200 | 7.02 | 10.03 | - | - | - | - | - | 0.67 | 0.33 |
| 2230 | 6.19 | 12.86 | - | - | - | - | - | 0.48 | - |
| 2300 | 5.69 | 12.04 | - | - | - | - | - | 0.33 | 0.33 |
| 2330 | 3.69 | 12.90 | - | - | - | - | - | - | - |
| Mean | 3.61 | 11.70 | 0.09 | 0.08 | 0.01 | - | 0.05 | 0.31 | 0.08 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in November are: rain – 11.70%, mist – 3.61%, snow – 0.31%.

The activity of thunderstorms in November constitutes 0.09%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

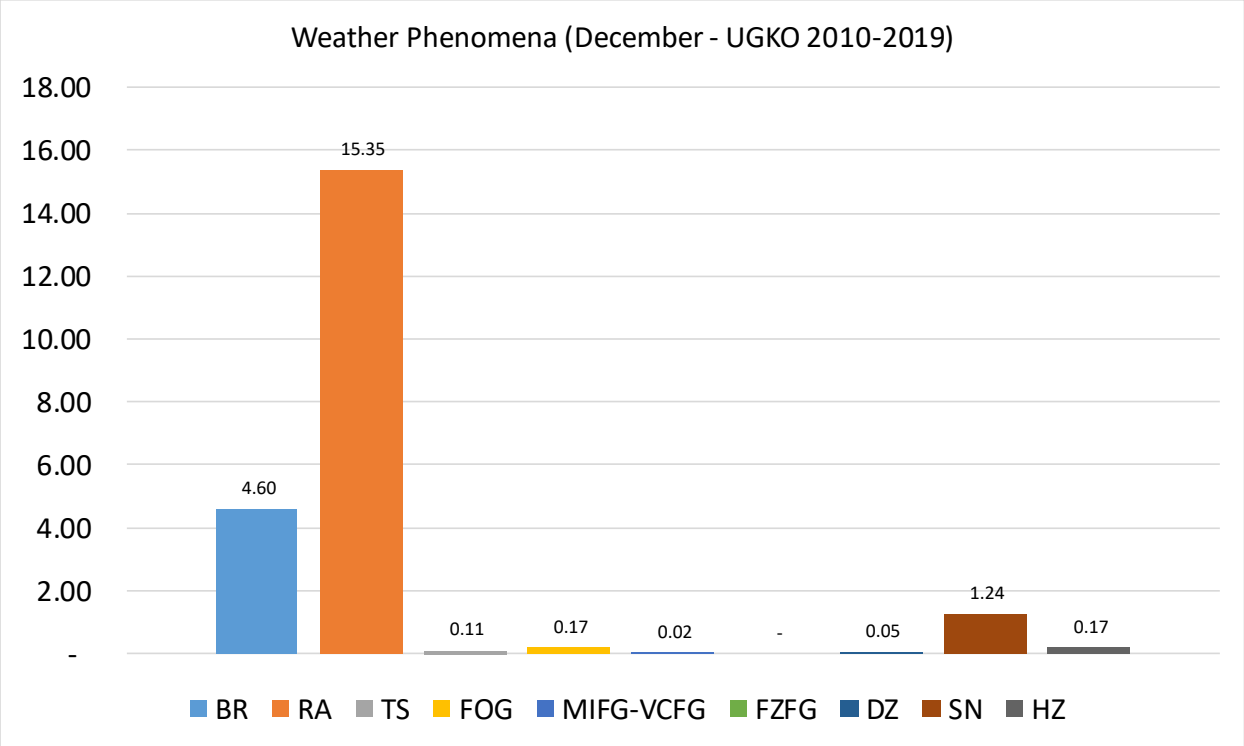
AERODROME: UGKO MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12648 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 6.45 | 11.94 | 0.32 | 0.32 | - | - | - | 2.26 | - |
| 0030 | 8.37 | 12.56 | - | 0.93 | - | - | - | 1.40 | 0.47 |
| 0100 | 6.39 | 12.78 | - | 0.64 | - | - | - | 0.96 | 0.32 |
| 0130 | 6.33 | 14.03 | - | 0.90 | - | - | 0.45 | 0.90 | 0.90 |
| 0200 | 6.51 | 14.66 | - | 0.65 | - | - | - | 0.65 | - |
| 0230 | 7.41 | 16.67 | - | 0.93 | - | - | - | 1.39 | 0.46 |
| 0300 | 4.90 | 15.03 | - | 0.33 | - | - | - | 0.33 | 0.33 |
| 0330 | 6.07 | 14.49 | - | - | - | - | 0.47 | - | - |
| 0400 | 6.19 | 13.68 | - | 0.33 | - | - | - | 0.65 | - |
| 0430 | 4.27 | 17.06 | - | 0.47 | - | - | 0.47 | - | - |
| 0500 | 4.84 | 13.55 | - | - | - | - | 0.32 | 0.97 | 0.32 |
| 0530 | 3.74 | 16.82 | - | - | - | - | - | 0.93 | - |
| 0600 | 3.26 | 13.36 | - | - | - | - | - | 0.65 | - |
| 0630 | 2.82 | 16.43 | - | 0.47 | - | - | - | 0.47 | - |
| 0700 | 2.93 | 15.96 | - | - | - | - | - | 0.98 | - |
| 0730 | 3.29 | 17.37 | - | - | - | - | - | 0.94 | - |
| 0800 | 2.26 | 13.87 | 0.32 | - | - | - | - | 0.97 | - |
| 0830 | 1.43 | 16.67 | 0.48 | - | - | - | - | 0.95 | 0.48 |
| 0900 | 2.27 | 11.65 | 0.32 | - | - | - | - | 0.65 | 0.32 |
| 0930 | 1.41 | 16.43 | 0.47 | - | - | - | - | 0.47 | - |
| 1000 | 1.94 | 13.59 | 0.32 | - | - | - | - | 0.32 | - |
| 1030 | 1.94 | 14.08 | 0.49 | - | - | - | - | 0.49 | - |
| 1100 | 1.94 | 13.27 | 0.32 | - | - | - | - | 0.97 | - |
| 1130 | 2.84 | 16.59 | - | - | - | - | - | 1.90 | - |
| 1200 | 1.32 | 14.80 | - | - | - | - | - | 1.32 | - |
| 1230 | 1.44 | 18.27 | - | - | - | - | - | 0.96 | - |
| 1300 | 1.65 | 18.81 | - | - | - | - | - | 0.66 | - |
| 1330 | 0.98 | 19.61 | - | - | - | - | - | - | - |
| 1400 | 1.67 | 17.33 | - | - | - | - | - | - | 0.33 |
| 1430 | 3.92 | 16.18 | - | - | - | - | - | 2.45 | - |
| 1500 | 3.62 | 15.13 | - | - | - | - | - | 0.99 | - |
| 1530 | 5.31 | 16.91 | - | - | - | - | - | 2.90 | 0.48 |
| 1600 | 5.28 | 14.19 | - | - | - | - | - | 0.99 | - |
| 1630 | 4.69 | 16.90 | - | - | - | - | - | 2.82 | - |
| 1700 | 3.92 | 16.99 | - | - | 0.33 | - | - | 1.96 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 3.30 | 16.04 | - | - | 0.47 | - | 0.47 | 2.83 | - |
| 1800 | 5.30 | 15.89 | - | - | 0.33 | - | - | 1.99 | 0.33 |
| 1830 | 6.57 | 17.37 | - | - | - | - | - | 2.35 | - |
| 1900 | 5.25 | 16.39 | - | - | - | - | - | 1.64 | 0.33 |
| 1930 | 7.73 | 16.43 | - | - | - | - | - | 1.45 | - |
| 2000 | 6.62 | 14.57 | 0.66 | - | - | - | - | 0.99 | - |
| 2030 | 8.25 | 15.05 | - | - | - | - | - | 1.94 | 1.46 |
| 2100 | 5.92 | 15.46 | - | - | - | - | 0.33 | 1.64 | 0.33 |
| 2130 | 8.57 | 16.67 | 0.48 | 0.48 | - | - | - | 2.38 | - |
| 2200 | 7.10 | 13.87 | 0.65 | 0.65 | - | - | - | 1.61 | - |
| 2230 | 8.29 | 14.75 | 0.46 | 0.46 | - | - | - | 1.84 | 0.46 |
| 2300 | 6.62 | 11.92 | - | 0.33 | - | - | - | 1.32 | 0.33 |
| 2330 | 7.58 | 14.69 | - | 0.47 | - | - | - | 2.37 | 0.47 |
| Mean | 4.60 | 15.35 | 0.11 | 0.17 | 0.02 | - | 0.05 | 1.24 | 0.17 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in December are: rain – 15.35%, mist – 4.60%, snow – 1.24%.

The activity of thunderstorms in December constitutes 0.11%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

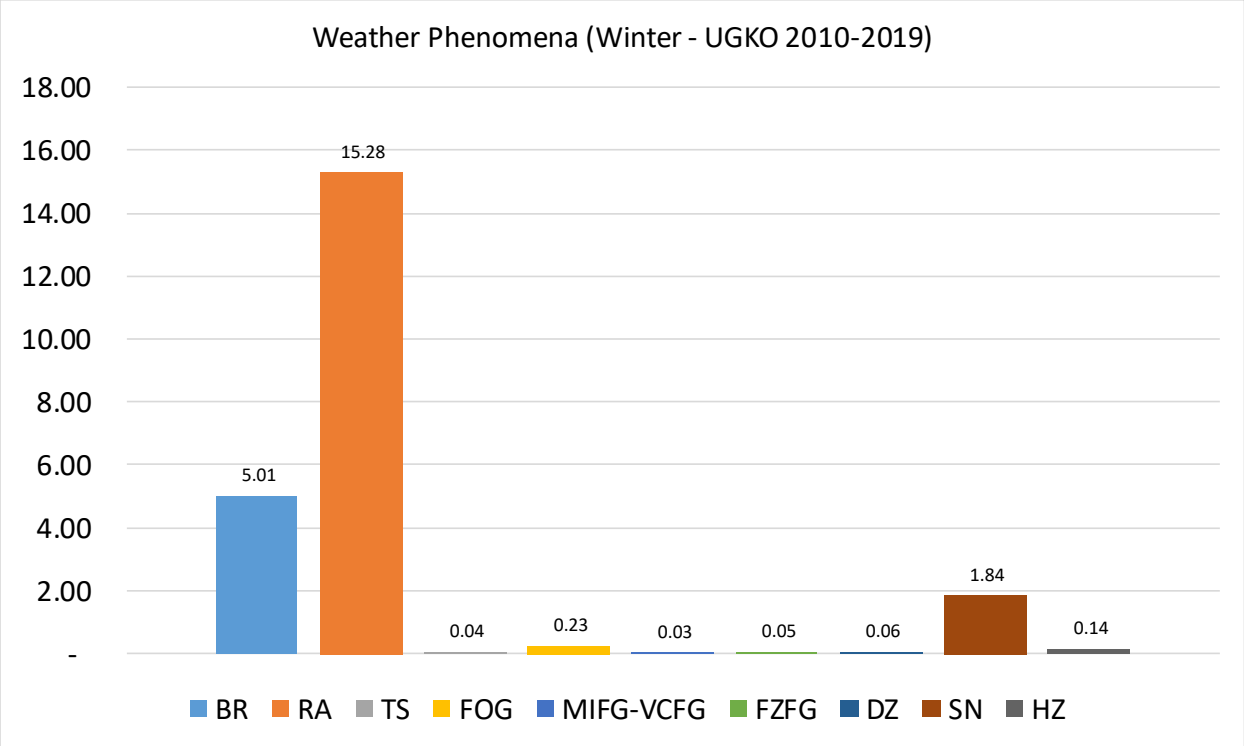
AERODROME: UGKO SEASON: WINTER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 36792 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 6.97 | 14.30 | 0.12 | 0.36 | - | 0.12 | - | 2.52 | 0.12 |
| 0030 | 7.42 | 13.87 | - | 0.48 | - | 0.16 | 0.32 | 0.97 | 0.65 |
| 0100 | 7.10 | 15.65 | - | 0.33 | - | 0.11 | - | 2.44 | 0.33 |
| 0130 | 5.85 | 14.08 | - | 0.79 | - | 0.47 | 0.16 | 1.42 | 0.47 |
| 0200 | 7.51 | 15.85 | - | 0.70 | - | 0.35 | 0.23 | 1.88 | 0.12 |
| 0230 | 5.93 | 15.38 | - | 0.80 | - | 0.32 | 0.32 | 1.44 | 0.32 |
| 0300 | 6.81 | 16.46 | - | 0.68 | - | 0.23 | - | 1.48 | 0.57 |
| 0330 | 6.57 | 15.54 | - | 0.64 | - | 0.32 | 0.48 | 0.96 | - |
| 0400 | 7.43 | 15.99 | - | 0.56 | 0.11 | - | - | 1.80 | - |
| 0430 | 6.00 | 15.72 | - | 0.65 | 0.16 | - | 0.16 | 1.30 | - |
| 0500 | 6.73 | 15.60 | - | 0.34 | 0.11 | - | 0.11 | 2.47 | 0.11 |
| 0530 | 5.82 | 16.80 | - | 0.32 | - | 0.16 | - | 1.62 | - |
| 0600 | 5.59 | 15.64 | - | 0.34 | - | 0.11 | - | 2.35 | - |
| 0630 | 3.71 | 16.61 | - | 0.32 | - | 0.16 | - | 1.45 | - |
| 0700 | 4.74 | 16.01 | - | 0.11 | - | - | - | 2.37 | - |
| 0730 | 2.76 | 16.23 | - | 0.16 | - | - | - | 1.14 | - |
| 0800 | 3.81 | 15.23 | 0.11 | 0.11 | - | - | - | 1.79 | - |
| 0830 | 2.91 | 15.70 | 0.16 | - | - | - | - | 1.62 | 0.16 |
| 0900 | 3.70 | 13.69 | 0.11 | - | - | - | - | 1.91 | 0.11 |
| 0930 | 2.58 | 14.98 | 0.16 | - | - | - | - | 1.13 | - |
| 1000 | 3.49 | 14.21 | 0.11 | - | - | - | - | 1.80 | - |
| 1030 | 2.63 | 13.32 | 0.16 | - | - | - | - | 0.82 | - |
| 1100 | 3.05 | 14.69 | 0.11 | - | - | - | - | 1.92 | - |
| 1130 | 2.42 | 14.70 | - | - | - | - | - | 1.45 | - |
| 1200 | 2.84 | 14.64 | - | - | - | - | - | 2.38 | 0.11 |
| 1230 | 1.47 | 16.53 | - | - | - | - | - | 0.98 | - |
| 1300 | 2.25 | 17.25 | - | - | - | - | - | 1.35 | - |
| 1330 | 1.97 | 17.73 | - | - | - | - | - | 0.99 | - |
| 1400 | 2.76 | 15.61 | - | - | - | - | 0.11 | 1.61 | 0.11 |
| 1430 | 3.45 | 15.76 | - | - | - | - | - | 1.48 | - |
| 1500 | 3.69 | 15.57 | - | - | - | - | - | 1.73 | - |
| 1530 | 4.06 | 15.58 | - | - | - | - | - | 1.79 | 0.16 |
| 1600 | 4.54 | 15.55 | - | - | - | - | - | 2.04 | - |
| 1630 | 4.21 | 15.86 | - | - | - | - | - | 2.43 | - |
| 1700 | 4.95 | 15.57 | - | - | 0.12 | - | - | 2.59 | 0.12 |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 3.72 | 14.89 | - | 0.32 | 0.16 | - | 0.16 | 2.59 | - |
| 1800 | 6.13 | 15.09 | - | 0.24 | 0.12 | - | - | 2.83 | 0.12 |
| 1830 | 5.51 | 14.42 | - | 0.16 | 0.16 | - | - | 1.62 | - |
| 1900 | 5.48 | 14.50 | 0.11 | 0.23 | 0.11 | - | - | 2.28 | 0.11 |
| 1930 | 6.56 | 14.43 | - | 0.16 | 0.16 | - | - | 1.31 | 0.16 |
| 2000 | 6.76 | 14.98 | 0.24 | 0.12 | - | - | 0.12 | 2.42 | - |
| 2030 | 6.86 | 15.20 | - | 0.16 | - | - | 0.16 | 2.12 | 0.82 |
| 2100 | 6.55 | 14.93 | - | 0.12 | - | - | 0.24 | 2.43 | 0.12 |
| 2130 | 7.75 | 15.83 | 0.16 | 0.32 | - | - | - | 2.10 | - |
| 2200 | 6.75 | 15.15 | 0.24 | 0.59 | - | - | - | 2.60 | 0.36 |
| 2230 | 6.61 | 14.03 | 0.16 | 0.32 | - | - | - | 2.26 | 0.32 |
| 2300 | 6.79 | 14.06 | - | 0.24 | - | - | - | 2.18 | 0.24 |
| 2330 | 7.44 | 14.24 | - | 0.49 | - | - | 0.16 | 2.27 | 0.81 |
| Mean | 5.01 | 15.28 | 0.04 | 0.23 | 0.03 | 0.05 | 0.06 | 1.84 | 0.14 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in winter are: rain – 15.28%, mist – 5.01%, snow – 1.84%.

The activity of thunderstorms in winter constitutes 0.04%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

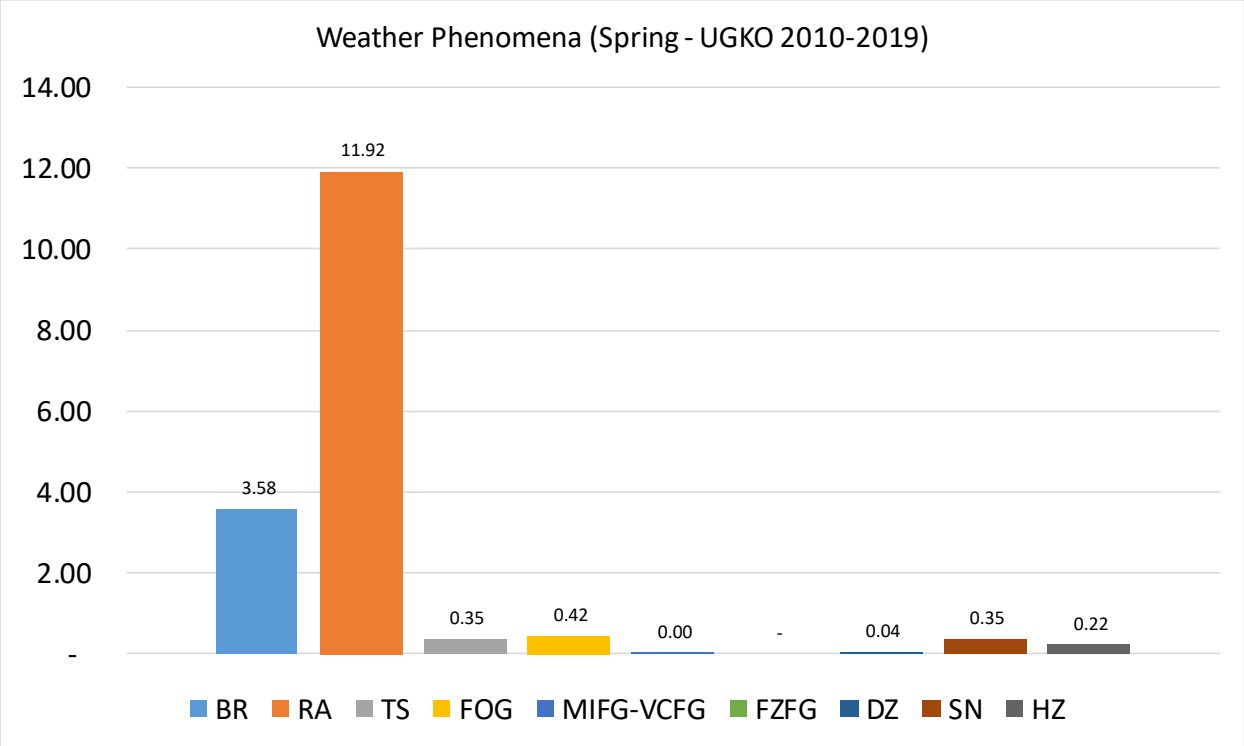
AERODROME: UGKO SEASON: SPRING PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 37536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 7.76 | 13.45 | - | 1.21 | - | - | - | 0.85 | 0.73 |
| 0030 | 6.86 | 10.21 | - | 1.98 | - | - | - | - | 1.22 |
| 0100 | 7.40 | 12.73 | 0.11 | 1.41 | - | - | 0.22 | 1.09 | 1.20 |
| 0130 | 8.20 | 13.00 | 0.15 | 1.55 | - | - | 0.31 | - | 0.62 |
| 0200 | 11.63 | 14.82 | - | 1.71 | - | - | - | 0.57 | 0.57 |
| 0230 | 8.46 | 11.54 | - | 1.85 | 0.15 | - | - | - | 0.31 |
| 0300 | 12.16 | 13.69 | 0.33 | 1.97 | - | - | - | 0.66 | 0.44 |
| 0330 | 7.00 | 13.37 | 0.31 | 1.09 | - | - | - | 0.31 | 0.31 |
| 0400 | 8.81 | 14.58 | 0.11 | 1.63 | - | - | - | 0.65 | 0.11 |
| 0430 | 4.61 | 13.67 | - | 0.61 | - | - | - | 0.31 | - |
| 0500 | 7.07 | 15.56 | 0.22 | 0.54 | - | - | - | 0.87 | 0.11 |
| 0530 | 2.19 | 13.15 | 0.16 | - | - | - | 0.16 | - | - |
| 0600 | 4.70 | 13.11 | 0.11 | - | - | - | - | 0.77 | - |
| 0630 | 1.87 | 10.61 | 0.16 | - | - | - | - | - | - |
| 0700 | 3.28 | 12.13 | 0.11 | - | - | - | - | 0.66 | - |
| 0730 | 1.71 | 10.71 | - | - | - | - | - | - | - |
| 0800 | 1.97 | 10.41 | - | - | - | - | - | 0.55 | - |
| 0830 | 1.23 | 10.32 | - | - | - | - | - | 0.15 | 0.15 |
| 0900 | 1.96 | 10.69 | 0.33 | - | - | - | - | 0.76 | - |
| 0930 | 0.93 | 9.16 | 0.31 | - | - | - | - | - | - |
| 1000 | 1.63 | 10.24 | 0.22 | - | - | - | - | 0.65 | - |
| 1030 | 0.93 | 9.92 | 0.47 | - | - | - | - | - | 0.16 |
| 1100 | 1.21 | 9.14 | 0.11 | - | - | - | - | 0.33 | - |
| 1130 | 0.46 | 9.85 | 0.62 | - | - | - | - | 0.15 | 0.15 |
| 1200 | 1.44 | 11.27 | 0.55 | 0.11 | - | - | - | 0.44 | - |
| 1230 | 0.62 | 10.54 | 1.24 | - | - | - | - | - | - |
| 1300 | 0.88 | 10.41 | 0.88 | 0.11 | - | - | - | 0.55 | - |
| 1330 | 0.31 | 11.04 | 1.09 | - | - | - | - | - | - |
| 1400 | 1.24 | 11.37 | 0.79 | 0.11 | - | - | - | 0.34 | 0.11 |
| 1430 | 0.47 | 10.71 | 0.47 | - | - | - | - | - | 0.16 |
| 1500 | 1.00 | 11.20 | 0.67 | 0.11 | - | - | - | 0.55 | - |
| 1530 | 0.62 | 12.48 | 0.78 | - | - | - | - | 0.16 | 0.16 |
| 1600 | 1.42 | 14.55 | 1.09 | 0.11 | - | - | - | 0.33 | - |
| 1630 | 0.77 | 13.14 | 0.77 | - | - | - | - | 0.15 | - |
| 1700 | 2.39 | 13.78 | 0.91 | 0.11 | - | - | - | 0.68 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 1.86 | 11.61 | 0.31 | - | - | - | - | - | - |
| 1800 | 1.95 | 13.55 | 1.15 | 0.11 | - | - | 0.23 | 0.57 | 0.11 |
| 1830 | 1.71 | 11.20 | 0.93 | - | - | - | - | 0.16 | 0.16 |
| 1900 | 2.30 | 14.14 | 0.66 | 0.11 | - | - | - | 0.44 | 0.11 |
| 1930 | 2.31 | 11.23 | - | - | - | - | - | - | - |
| 2000 | 3.60 | 12.71 | 0.24 | 0.24 | - | - | - | 0.96 | 0.12 |
| 2030 | 3.58 | 11.53 | - | 0.16 | - | - | 0.16 | - | 0.31 |
| 2100 | 4.15 | 11.14 | 0.36 | 0.24 | - | - | - | 0.59 | 0.36 |
| 2130 | 3.53 | 12.75 | - | 0.31 | - | - | - | - | 0.46 |
| 2200 | 4.59 | 12.88 | 0.11 | 0.34 | - | - | - | 0.78 | 0.22 |
| 2230 | 5.12 | 9.94 | - | 0.62 | - | - | 0.31 | - | 0.47 |
| 2300 | 6.26 | 11.67 | - | 1.08 | - | - | 0.24 | 0.72 | 0.72 |
| 2330 | 5.58 | 11.16 | 0.16 | 0.93 | - | - | 0.16 | - | 0.93 |
| Mean | 3.58 | 11.92 | 0.35 | 0.42 | 0.00 | - | 0.04 | 0.35 | 0.22 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in spring are: rain – 11.92%, mist – 3.58%, fog – 0.42%.

The activity of thunderstorms in spring constitutes 0.35%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

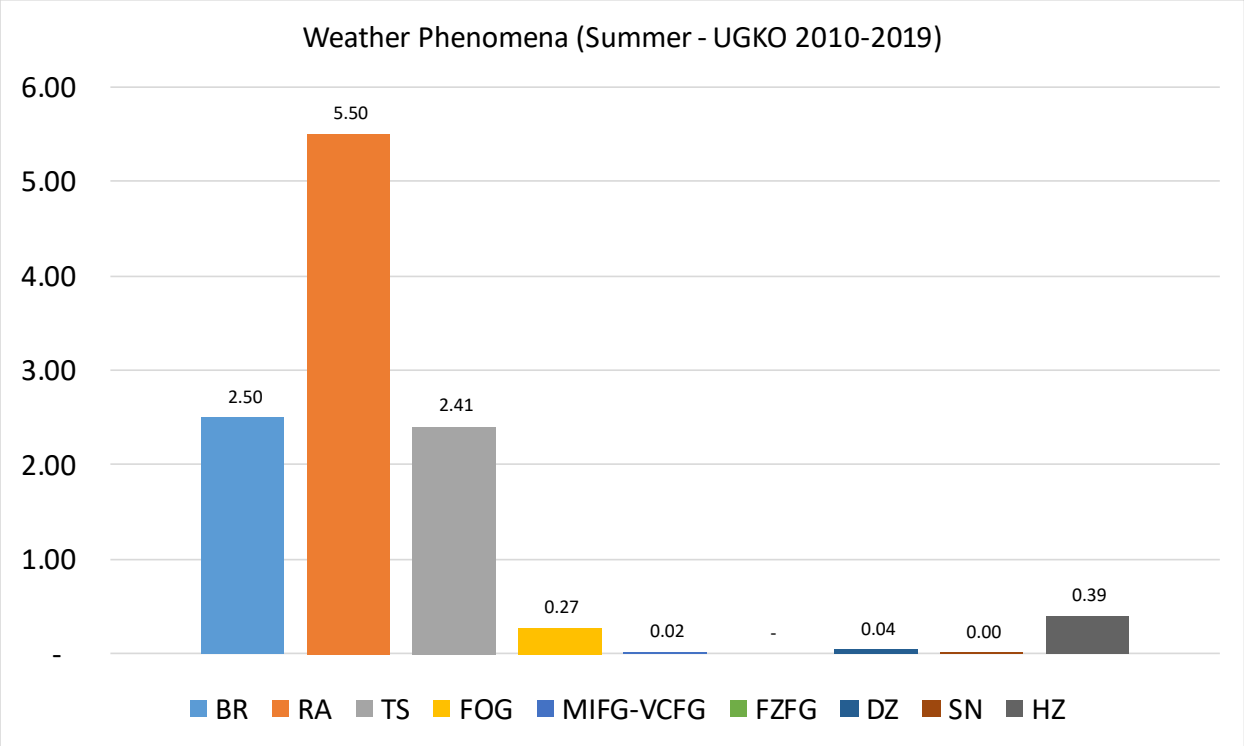
AERODROME: UGKO SEASON: SUMMER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 37536 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 5.85 | 6.21 | 2.51 | 0.48 | 0.12 | - | 0.48 | - | 2.27 |
| 0030 | 8.24 | 6.11 | 2.44 | 0.61 | 0.15 | - | 0.31 | - | 1.22 |
| 0100 | 8.07 | 6.74 | 2.32 | 0.55 | - | - | - | - | 1.22 |
| 0130 | 13.23 | 7.23 | 1.23 | 0.92 | 0.15 | - | - | - | 2.92 |
| 0200 | 12.68 | 6.80 | 0.91 | 1.59 | - | - | - | - | 0.91 |
| 0230 | 10.71 | 5.90 | 1.09 | 2.17 | 0.31 | - | 0.31 | - | 0.93 |
| 0300 | 8.53 | 6.24 | 0.55 | 2.19 | - | - | - | - | 0.55 |
| 0330 | 6.52 | 5.90 | 0.31 | 1.71 | 0.16 | - | - | - | 0.47 |
| 0400 | 4.47 | 4.91 | 0.65 | 0.76 | - | - | - | - | 0.22 |
| 0430 | 2.15 | 5.53 | 0.46 | 0.77 | - | - | - | - | - |
| 0500 | 1.42 | 3.49 | 0.54 | 0.22 | - | - | - | - | - |
| 0530 | 0.47 | 4.97 | 0.78 | - | - | - | - | - | - |
| 0600 | 0.44 | 3.50 | 0.66 | - | - | - | - | - | - |
| 0630 | 0.31 | 3.12 | 0.94 | - | - | - | - | - | - |
| 0700 | 0.44 | 2.94 | 1.09 | - | - | - | - | - | - |
| 0730 | 0.31 | 2.64 | 0.62 | - | - | - | - | - | 0.16 |
| 0800 | 0.22 | 3.86 | 1.10 | 0.11 | - | - | - | - | - |
| 0830 | 0.31 | 3.72 | 0.93 | - | - | - | - | - | - |
| 0900 | 0.33 | 3.72 | 1.53 | - | - | - | - | - | - |
| 0930 | 0.31 | 4.04 | 1.24 | - | - | - | - | - | - |
| 1000 | 0.33 | 4.27 | 1.09 | - | - | - | - | - | - |
| 1030 | 0.31 | 3.38 | 0.77 | - | - | - | - | - | - |
| 1100 | 0.11 | 2.96 | 1.97 | - | - | - | - | - | - |
| 1130 | - | 3.41 | 1.08 | - | - | - | - | - | - |
| 1200 | 0.11 | 2.99 | 1.88 | - | - | - | - | - | - |
| 1230 | - | 3.43 | 1.56 | - | - | - | - | - | - |
| 1300 | 0.22 | 4.58 | 2.73 | - | - | - | - | - | - |
| 1330 | - | 4.81 | 2.48 | - | - | - | - | - | - |
| 1400 | 0.22 | 3.85 | 3.52 | - | - | - | - | - | - |
| 1430 | 0.15 | 5.57 | 3.10 | - | - | - | - | - | - |
| 1500 | 0.55 | 4.48 | 4.15 | - | - | - | - | - | - |
| 1530 | 0.62 | 5.09 | 4.01 | - | - | - | - | - | - |
| 1600 | 0.55 | 5.38 | 4.72 | - | - | - | - | - | - |
| 1630 | 0.62 | 6.07 | 3.43 | - | - | - | - | - | 0.16 |
| 1700 | 0.79 | 7.08 | 4.49 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.62 | 7.14 | 4.35 | - | - | - | - | 0.16 | - |
| 1800 | 0.90 | 7.34 | 6.33 | - | - | - | - | - | - |
| 1830 | 1.25 | 8.14 | 4.23 | - | - | - | - | - | - |
| 1900 | 1.22 | 9.22 | 6.44 | - | - | - | 0.11 | - | - |
| 1930 | 1.24 | 7.61 | 4.19 | - | - | - | - | - | 0.31 |
| 2000 | 1.20 | 8.75 | 4.68 | - | - | - | 0.12 | - | - |
| 2030 | 1.40 | 6.07 | 3.12 | - | - | - | - | - | 0.47 |
| 2100 | 2.28 | 8.40 | 4.20 | - | - | - | 0.12 | - | 0.72 |
| 2130 | 3.52 | 7.20 | 2.76 | 0.31 | - | - | 0.15 | - | 1.23 |
| 2200 | 2.87 | 8.61 | 3.53 | 0.11 | - | - | - | - | 1.55 |
| 2230 | 4.21 | 7.18 | 3.28 | 0.31 | - | - | 0.31 | - | 0.94 |
| 2300 | 4.84 | 6.78 | 3.03 | 0.12 | - | - | - | - | 0.48 |
| 2330 | 4.78 | 6.78 | 2.47 | 0.15 | - | - | - | - | 2.16 |
| Mean | 2.50 | 5.50 | 2.41 | 0.27 | 0.02 | - | 0.04 | 0.00 | 0.39 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in summer are: rain – 5.50%, mist – 2.50%, haze – 0.39%.

The activity of thunderstorms in summer constitutes 2.41%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

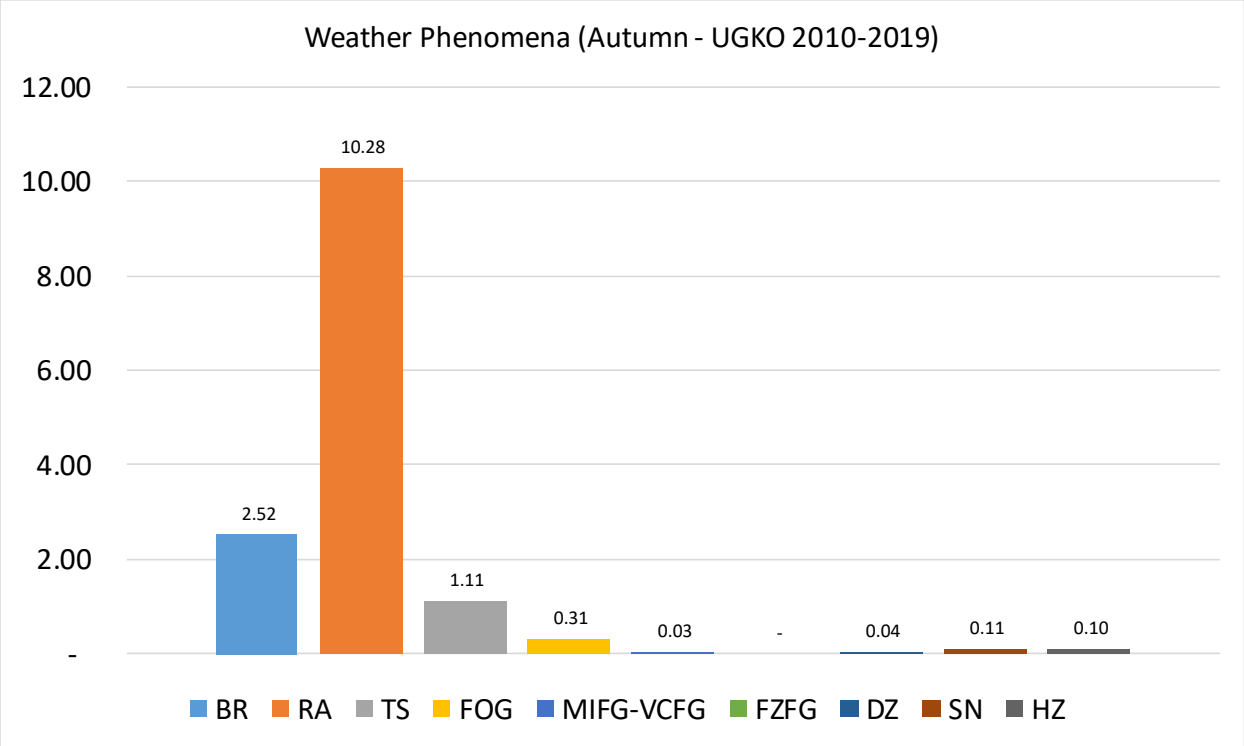
AERODROME: UGKO SEASON: AUTUMN PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 37128 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 4.85 | 11.84 | 1.58 | 0.90 | - | - | - | 0.11 | 0.56 |
| 0030 | 5.60 | 12.36 | 1.15 | 0.82 | - | - | 0.16 | - | 0.49 |
| 0100 | 4.88 | 12.24 | 1.08 | 1.19 | 0.22 | - | 0.11 | 0.11 | 0.22 |
| 0130 | 7.10 | 12.26 | 0.97 | 1.13 | 0.16 | - | - | 0.16 | 0.32 |
| 0200 | 7.35 | 13.39 | 1.54 | 0.99 | 0.11 | - | - | 0.11 | 0.11 |
| 0230 | 7.44 | 11.17 | 1.29 | 1.29 | - | - | - | - | 0.49 |
| 0300 | 6.48 | 12.31 | 0.88 | 1.32 | - | - | - | 0.11 | 0.11 |
| 0330 | 5.26 | 11.35 | 0.66 | 1.81 | - | - | - | - | 0.16 |
| 0400 | 4.40 | 12.98 | 0.66 | 1.10 | 0.55 | - | 0.11 | 0.22 | - |
| 0430 | 3.76 | 11.13 | 0.65 | 0.98 | 0.16 | - | - | - | - |
| 0500 | 2.52 | 11.39 | 0.66 | 0.77 | - | - | - | - | - |
| 0530 | 1.79 | 9.59 | 0.33 | 0.16 | - | - | - | - | - |
| 0600 | 2.20 | 10.87 | 0.55 | 0.11 | - | - | - | - | - |
| 0630 | 0.97 | 9.50 | 0.16 | - | - | - | - | - | - |
| 0700 | 0.99 | 9.71 | 0.44 | - | - | - | - | 0.33 | - |
| 0730 | 0.49 | 8.40 | 0.16 | - | - | - | - | - | - |
| 0800 | 1.32 | 10.36 | 0.33 | - | - | - | - | 0.22 | - |
| 0830 | 0.65 | 9.46 | - | - | - | - | - | - | - |
| 0900 | 0.88 | 9.26 | 0.44 | - | - | - | - | 0.11 | - |
| 0930 | 0.65 | 8.12 | 0.16 | - | - | - | 0.16 | - | - |
| 1000 | 0.88 | 8.60 | 0.33 | - | - | - | - | 0.22 | - |
| 1030 | 0.49 | 8.07 | 0.16 | - | - | - | - | - | - |
| 1100 | 0.55 | 8.08 | 0.66 | - | - | - | - | 0.22 | - |
| 1130 | 0.50 | 7.62 | 0.50 | - | - | - | - | 0.17 | 0.17 |
| 1200 | 0.44 | 8.85 | 1.64 | - | - | - | - | 0.11 | - |
| 1230 | 0.49 | 7.49 | 0.81 | - | - | - | - | 0.16 | - |
| 1300 | 0.33 | 8.19 | 1.00 | - | - | - | - | 0.11 | - |
| 1330 | 0.33 | 9.87 | 0.99 | - | - | - | - | 0.16 | - |
| 1400 | 0.33 | 7.21 | 0.89 | - | - | - | - | 0.11 | 0.11 |
| 1430 | 0.66 | 8.54 | 1.15 | - | - | - | - | - | - |
| 1500 | 0.77 | 8.85 | 1.33 | - | - | - | - | 0.11 | - |
| 1530 | 0.81 | 10.39 | 1.79 | - | - | - | - | - | - |
| 1600 | 1.32 | 9.67 | 2.09 | - | - | - | - | 0.11 | - |
| 1630 | 0.98 | 10.77 | 2.28 | - | - | - | - | - | - |
| 1700 | 1.32 | 9.93 | 2.43 | - | - | - | - | - | - |

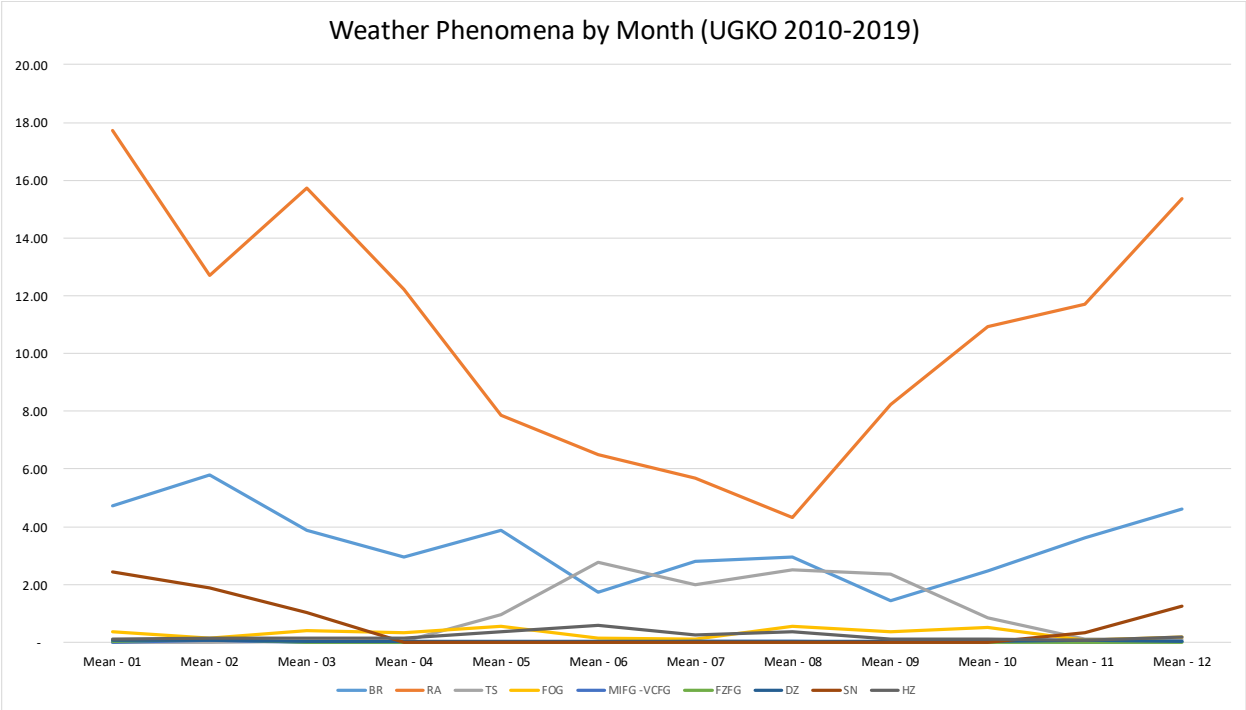
| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 1.13 | 11.31 | 2.42 | - | - | - | 0.16 | 0.16 | 0.16 |
| 1800 | 1.87 | 11.45 | 2.09 | - | - | - | - | 0.11 | - |
| 1830 | 2.13 | 10.51 | 2.46 | - | - | - | - | 0.16 | - |
| 1900 | 2.43 | 11.05 | 2.43 | 0.11 | - | - | - | 0.11 | 0.11 |
| 1930 | 2.46 | 9.85 | 2.13 | - | - | - | 0.16 | 0.16 | - |
| 2000 | 3.47 | 11.20 | 1.34 | - | - | - | 0.11 | 0.22 | 0.22 |
| 2030 | 2.95 | 11.15 | 1.15 | 0.16 | - | - | 0.16 | - | 0.16 |
| 2100 | 3.82 | 10.79 | 1.24 | 0.11 | - | - | - | 0.34 | 0.22 |
| 2130 | 4.13 | 10.23 | 1.16 | 0.17 | - | - | 0.50 | 0.33 | 0.17 |
| 2200 | 4.10 | 9.42 | 0.78 | 0.33 | - | - | 0.11 | 0.22 | 0.22 |
| 2230 | 4.42 | 11.95 | 1.31 | 0.49 | - | - | - | 0.16 | 0.33 |
| 2300 | 3.82 | 12.15 | 1.35 | 0.67 | - | - | - | 0.11 | 0.34 |
| 2330 | 4.21 | 12.64 | 1.46 | 0.49 | - | - | - | - | - |
| Mean | 2.52 | 10.28 | 1.11 | 0.31 | 0.03 | - | 0.04 | 0.11 | 0.10 |




During the climatological period under review, at Kutaisi International Airport the prevailing weather phenomena in autumn are: rain – 10.28%, mist – 2.52%, fog – 0.31%.

The activity of thunderstorms in autumn constitutes 1.11%.

| MEAN FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES BY MONTH | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| January | 4.72 | 17.73 | 0.01 | 0.38 | - | 0.05 | 0.05 | 2.44 | 0.10 |
| February | 5.79 | 12.70 | - | 0.15 | 0.05 | 0.11 | 0.07 | 1.88 | 0.14 |
| March | 3.87 | 15.71 | 0.04 | 0.39 | - | - | 0.04 | 1.04 | 0.14 |
| April | 2.97 | 12.21 | 0.05 | 0.33 | 0.01 | - | 0.04 | - | 0.16 |
| May | 3.88 | 7.85 | 0.96 | 0.55 | - | - | 0.03 | - | 0.35 |
| June | 1.73 | 6.50 | 2.76 | 0.16 | 0.01 | - | 0.04 | 0.01 | 0.58 |
| July | 2.81 | 5.70 | 1.98 | 0.12 | 0.02 | - | 0.05 | - | 0.25 |
| August | 2.94 | 4.31 | 2.50 | 0.54 | 0.03 | - | 0.03 | - | 0.35 |
| September | 1.46 | 8.22 | 2.37 | 0.38 | 0.01 | - | 0.02 | - | 0.12 |
| October | 2.47 | 10.94 | 0.85 | 0.50 | 0.06 | - | 0.04 | - | 0.09 |
| November | 3.61 | 11.70 | 0.09 | 0.08 | 0.01 | - | 0.05 | 0.31 | 0.08 |
| December | 4.60 | 15.35 | 0.11 | 0.17 | 0.02 | - | 0.05 | 1.24 | 0.17 |



# CORRELATION BETWEEN MONTHLY RAINFALL AND AVERAGE TEMPERATURE

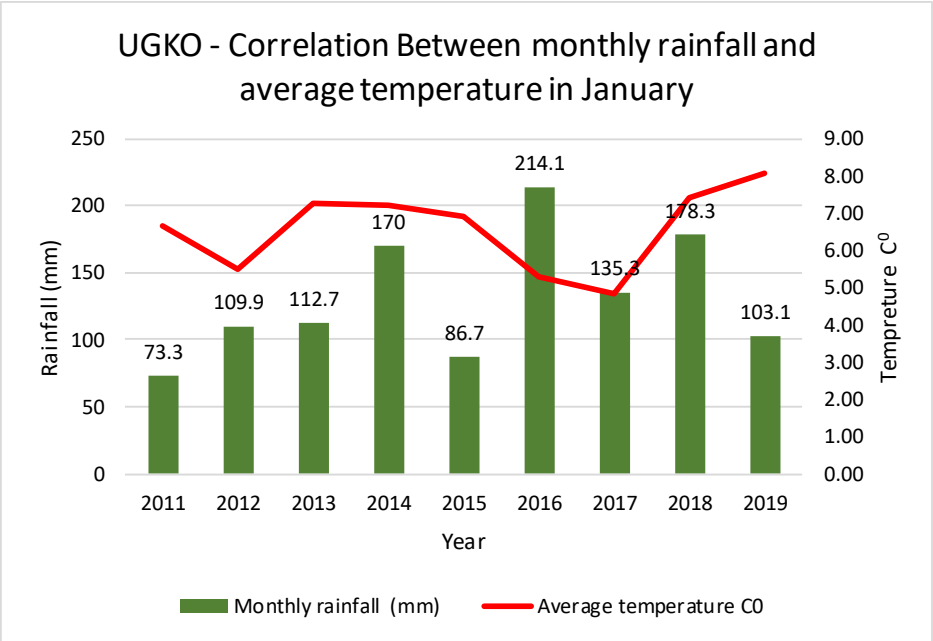
## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: JANUARY PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in January (UGKO) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 73.3 | 6.65 |
| 2012 | 109.9 | 5.50 |
| 2013 | 112.7 | 7.26 |
| 2014 | 170 | 7.22 |
| 2015 | 86.7 | 6.92 |
| 2016 | 214.1 | 5.27 |
| 2017 | 135.3 | 4.82 |
| 2018 | 178.3 | 7.41 |
| 2019 | 103.1 | 8.07 |
| Total rainfall | 1183.4 | |

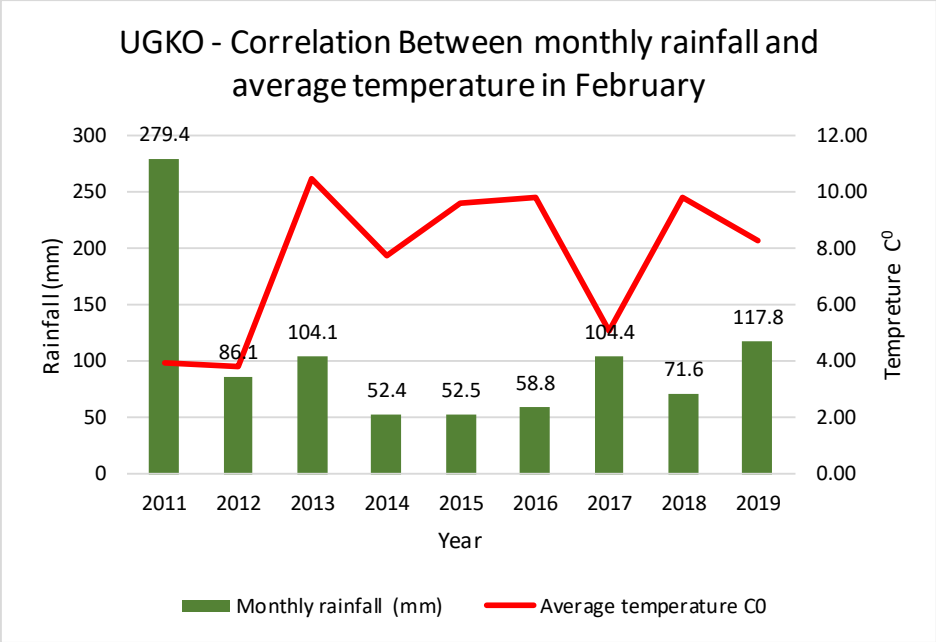


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: FEBRUARY PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in February (UGKO) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 279.4 | 3.92 |
| 2012 | 86.1 | 3.77 |
| 2013 | 104.1 | 10.44 |
| 2014 | 52.4 | 7.72 |
| 2015 | 52.5 | 9.59 |
| 2016 | 58.8 | 9.77 |
| 2017 | 104.4 | 5.05 |
| 2018 | 71.6 | 9.77 |
| 2019 | 117.8 | 8.27 |
| Total rainfall | 927.1 | |

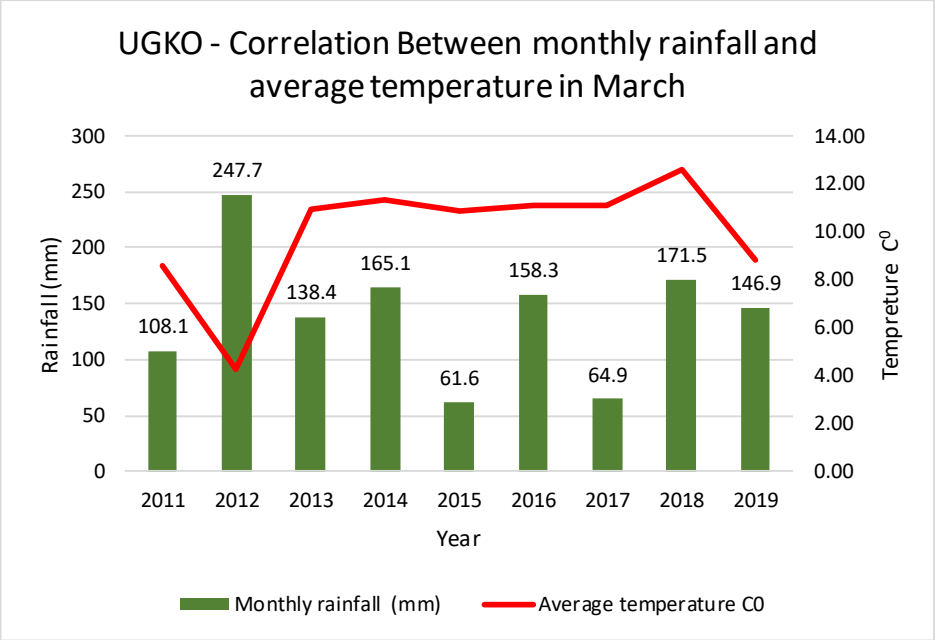


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: MARCH PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in March (UGKO) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 108.1 | 8.56 |
| 2012 | 247.7 | 4.29 |
| 2013 | 138.4 | 10.91 |
| 2014 | 165.1 | 11.32 |
| 2015 | 61.6 | 10.84 |
| 2016 | 158.3 | 11.08 |
| 2017 | 64.9 | 11.06 |
| 2018 | 171.5 | 12.57 |
| 2019 | 146.9 | 8.84 |
| Total rainfall | 1262.5 | |

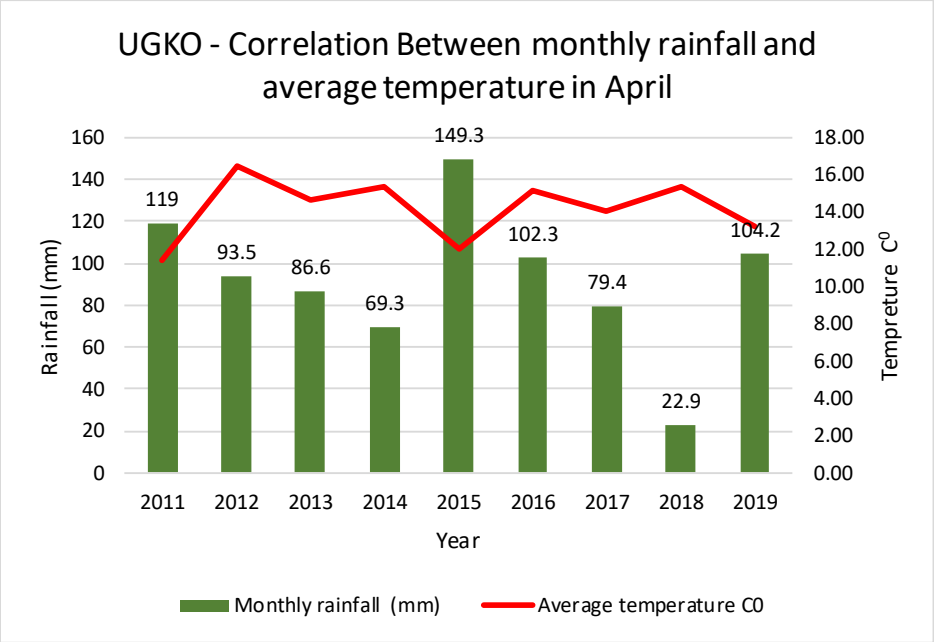


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: APRIL PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in April (UGKO) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 119 | 11.38 |
| 2012 | 93.5 | 16.50 |
| 2013 | 86.6 | 14.65 |
| 2014 | 69.3 | 15.33 |
| 2015 | 149.3 | 12.00 |
| 2016 | 102.3 | 15.14 |
| 2017 | 79.4 | 14.06 |
| 2018 | 22.9 | 15.35 |
| 2019 | 104.2 | 13.22 |
| Total rainfall | 826.5 | |

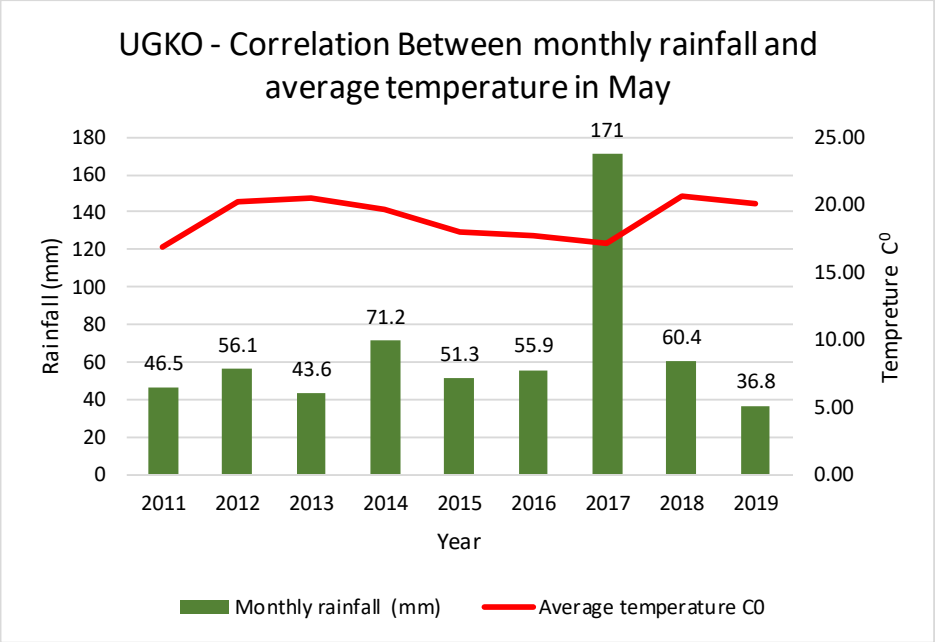


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: MAY PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in May (UGKO) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 46.5 | 16.92 |
| 2012 | 56.1 | 20.20 |
| 2013 | 43.6 | 20.50 |
| 2014 | 71.2 | 19.62 |
| 2015 | 51.3 | 18.03 |
| 2016 | 55.9 | 17.67 |
| 2017 | 171 | 17.17 |
| 2018 | 60.4 | 20.56 |
| 2019 | 36.8 | 20.00 |
| Total rainfall | 592.8 | |

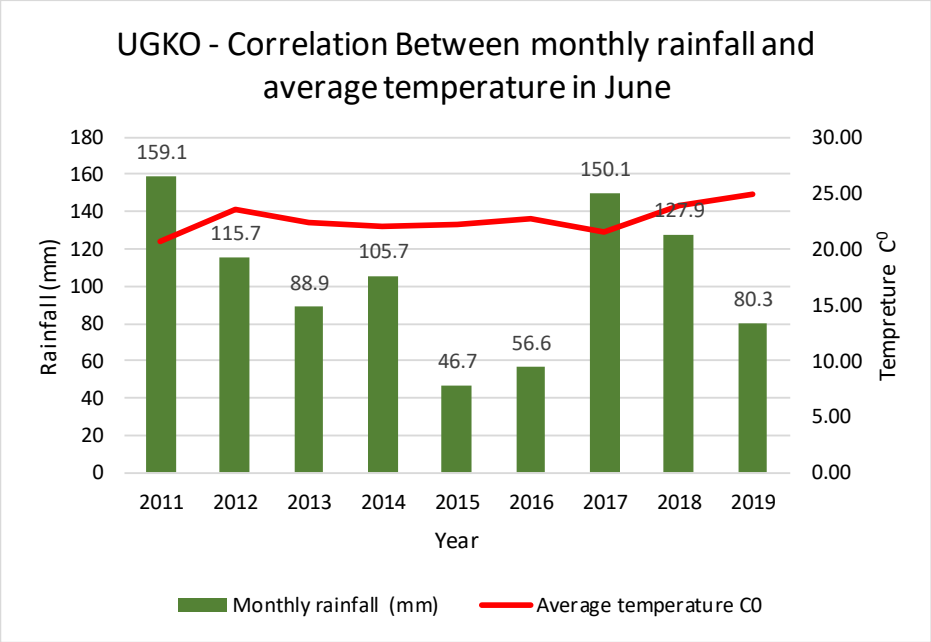


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: JUNE PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in June (UGKO) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 159.1 | 20.73 |
| 2012 | 115.7 | 23.58 |
| 2013 | 88.9 | 22.32 |
| 2014 | 105.7 | 22.04 |
| 2015 | 46.7 | 22.24 |
| 2016 | 56.6 | 22.65 |
| 2017 | 150.1 | 21.49 |
| 2018 | 127.9 | 23.81 |
| 2019 | 80.3 | 24.91 |
| Total rainfall | 931 | |

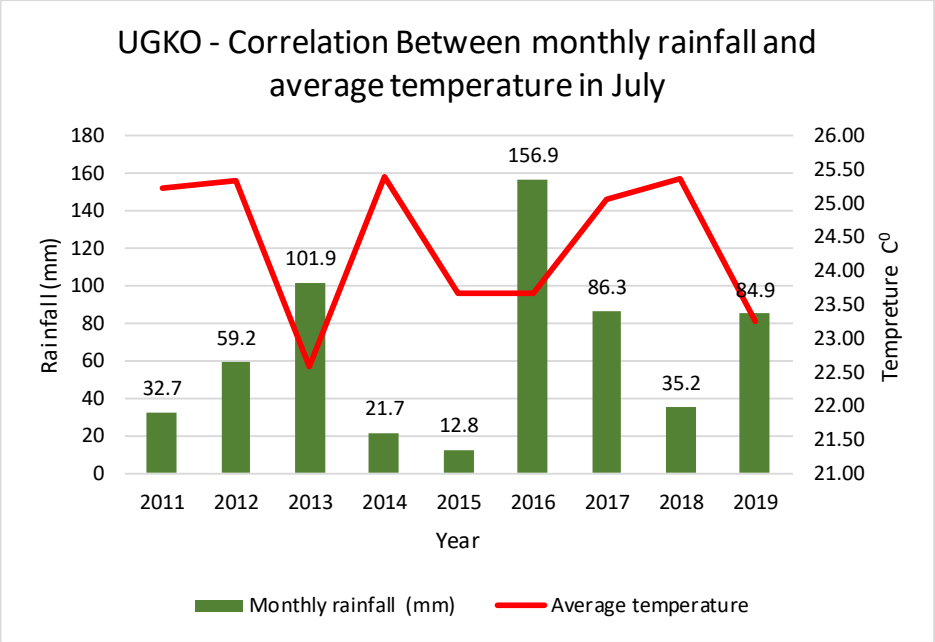


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: JULY PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in July (UGKO) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 32.7 | 25.23 |
| 2012 | 59.2 | 25.33 |
| 2013 | 101.9 | 22.59 |
| 2014 | 21.7 | 25.38 |
| 2015 | 12.8 | 23.67 |
| 2016 | 156.9 | 23.65 |
| 2017 | 86.3 | 25.06 |
| 2018 | 35.2 | 25.35 |
| 2019 | 84.9 | 23.25 |
| Total rainfall | 591.6 | |

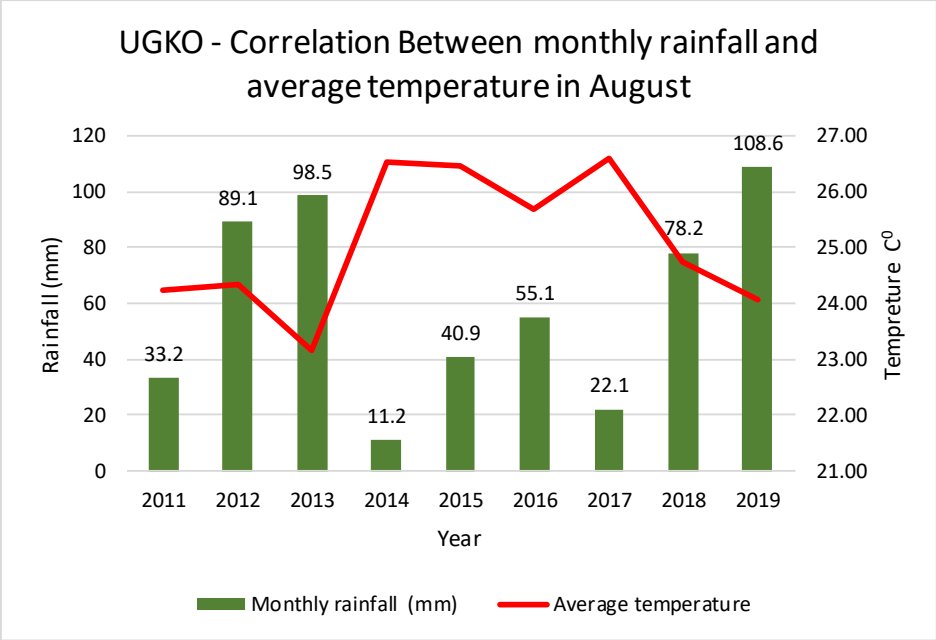


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: AUGUST PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in August (UGKO) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 33.2 | 24.23 |
| 2012 | 89.1 | 24.33 |
| 2013 | 98.5 | 23.17 |
| 2014 | 11.2 | 26.54 |
| 2015 | 40.9 | 26.45 |
| 2016 | 55.1 | 25.68 |
| 2017 | 22.1 | 26.60 |
| 2018 | 78.2 | 24.76 |
| 2019 | 108.6 | 24.08 |
| Total rainfall | 536.9 | |

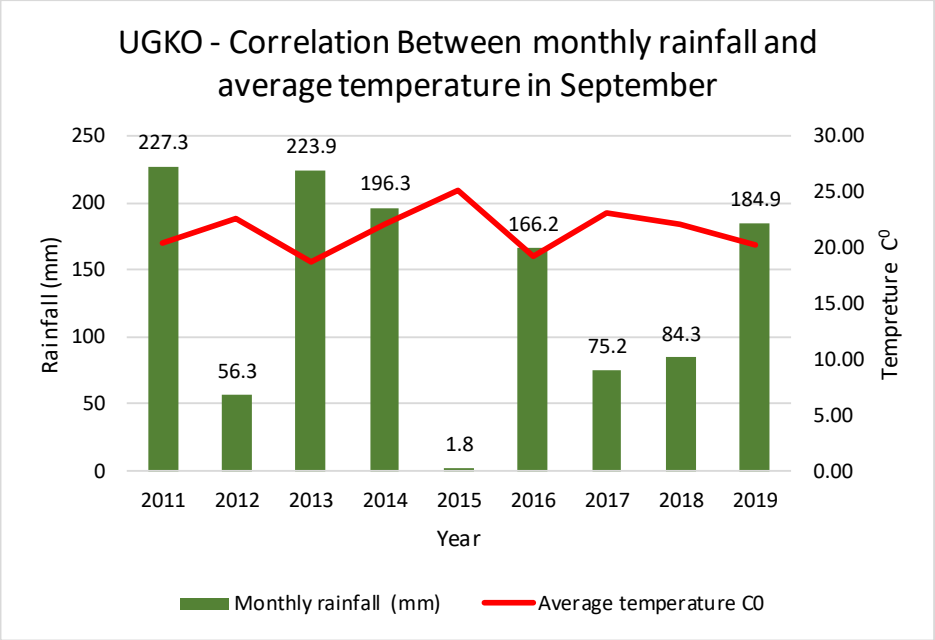


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: SEPTEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in September (UGKO) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 227.3 | 20.42 |
| 2012 | 56.3 | 22.51 |
| 2013 | 223.9 | 18.71 |
| 2014 | 196.3 | 22.05 |
| 2015 | 1.8 | 25.14 |
| 2016 | 166.2 | 19.26 |
| 2017 | 75.2 | 23.04 |
| 2018 | 84.3 | 22.08 |
| 2019 | 184.9 | 20.26 |
| Total rainfall | 1216.2 | |

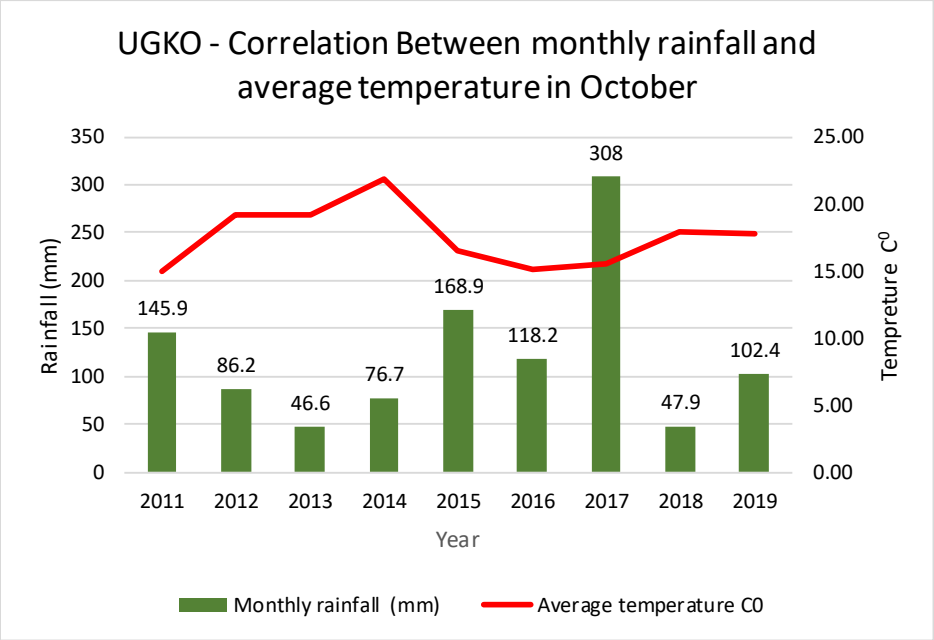


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: OCTOBER PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in October (UGKO) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 145.9 | 15.00 |
| 2012 | 86.2 | 19.19 |
| 2013 | 46.6 | 19.24 |
| 2014 | 76.7 | 21.85 |
| 2015 | 168.9 | 16.54 |
| 2016 | 118.2 | 15.06 |
| 2017 | 308 | 15.50 |
| 2018 | 47.9 | 17.95 |
| 2019 | 102.4 | 17.78 |
| Total rainfall | 1100.8 | |

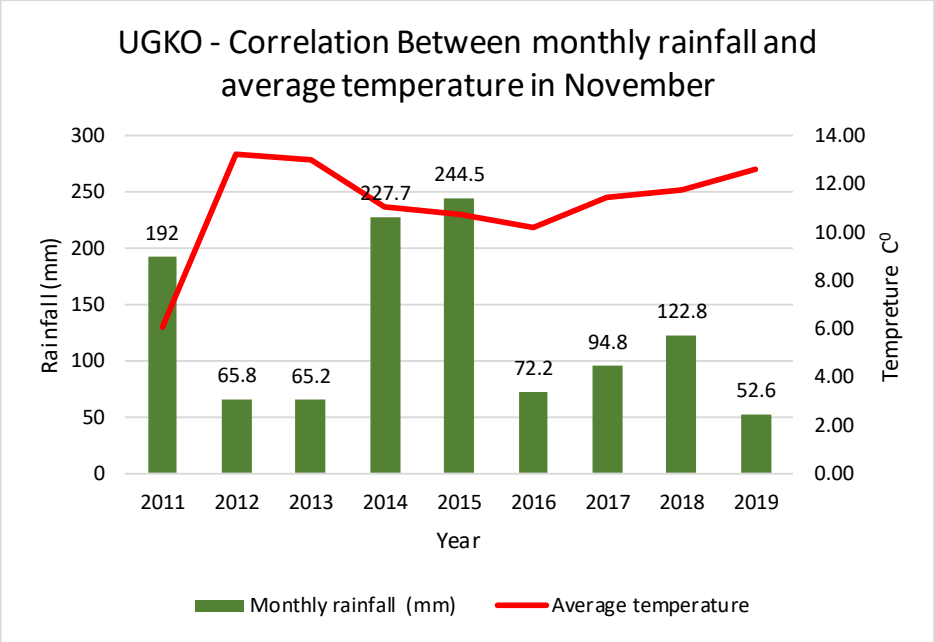


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: NOVEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in November (UGKO) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 192 | 6.06 |
| 2012 | 65.8 | 13.24 |
| 2013 | 65.2 | 13.01 |
| 2014 | 227.7 | 11.02 |
| 2015 | 244.5 | 10.74 |
| 2016 | 72.2 | 10.21 |
| 2017 | 94.8 | 11.43 |
| 2018 | 122.8 | 11.76 |
| 2019 | 52.6 | 12.62 |
| Total rainfall | 1137.6 | |

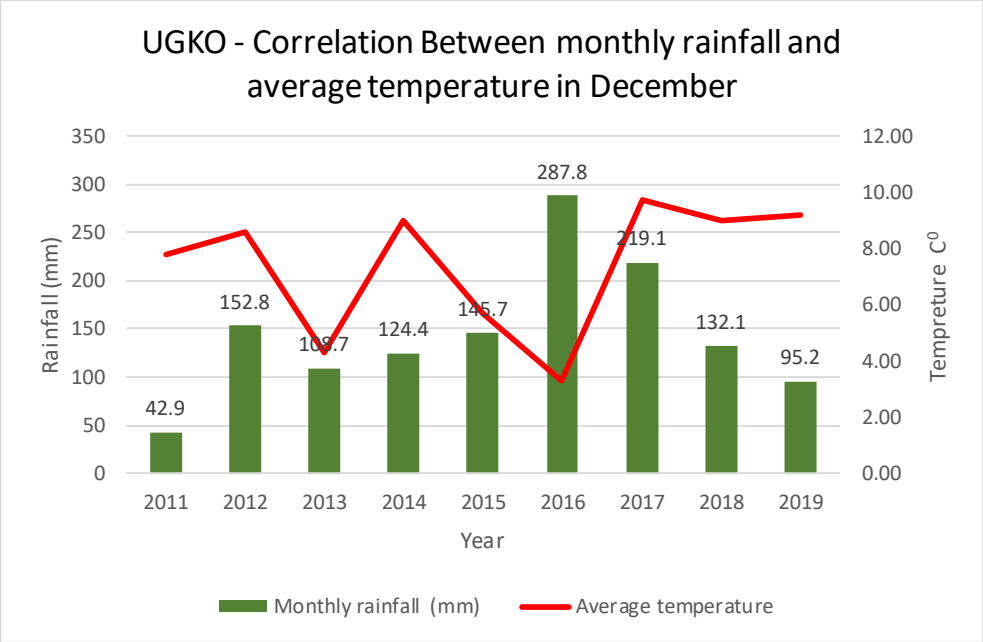


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGKO MONTH: DECEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Correlation Between monthly rainfall and average temperature in December (UGKO) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 42.9 | 7.76 |
| 2012 | 152.8 | 8.61 |
| 2013 | 108.7 | 4.31 |
| 2014 | 124.4 | 8.96 |
| 2015 | 145.7 | 5.68 |
| 2016 | 287.8 | 3.29 |
| 2017 | 219.1 | 9.75 |
| 2018 | 132.1 | 9.01 |
| 2019 | 95.2 | 9.22 |
| Total rainfall | 1308.7 | |



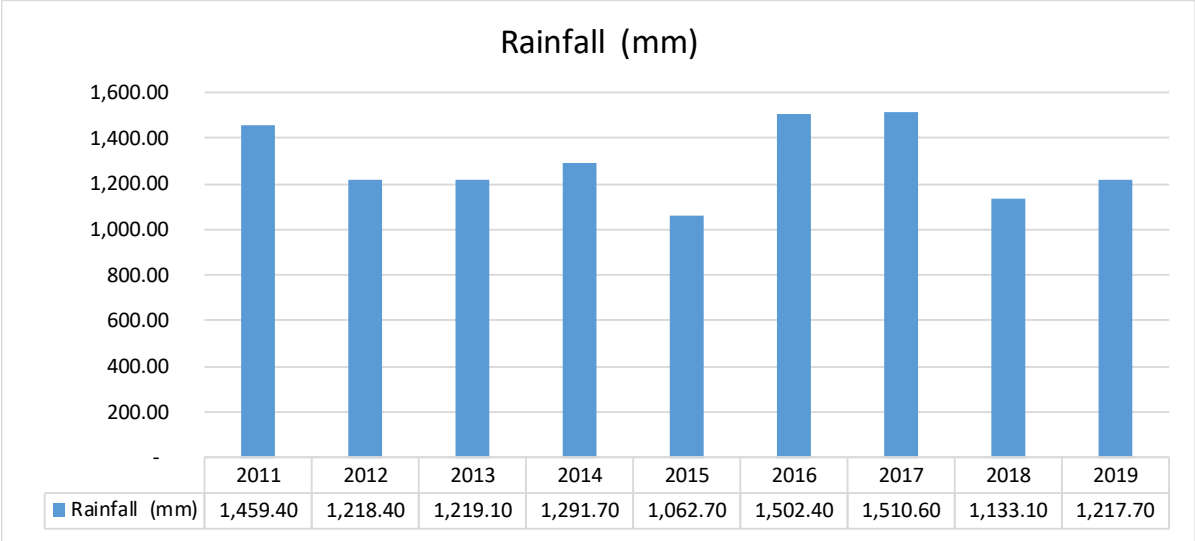
## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL J**
**TABULAR FORM**

AERODROME: UGKO ANNUAL PERIOD OF RECORD: 2011-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| Annual rainfall (UGKO) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Year | | | | | | | | |
| UGKO | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| Rainfall (mm) | 1,459.4 | 1,218.4 | 1,219.1 | 1,291.7 | 1,062.7 | 1,502.4 | 1,510.6 | 1,133.1 | 1,217.7 |



**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL K**
**TABULAR FORM**

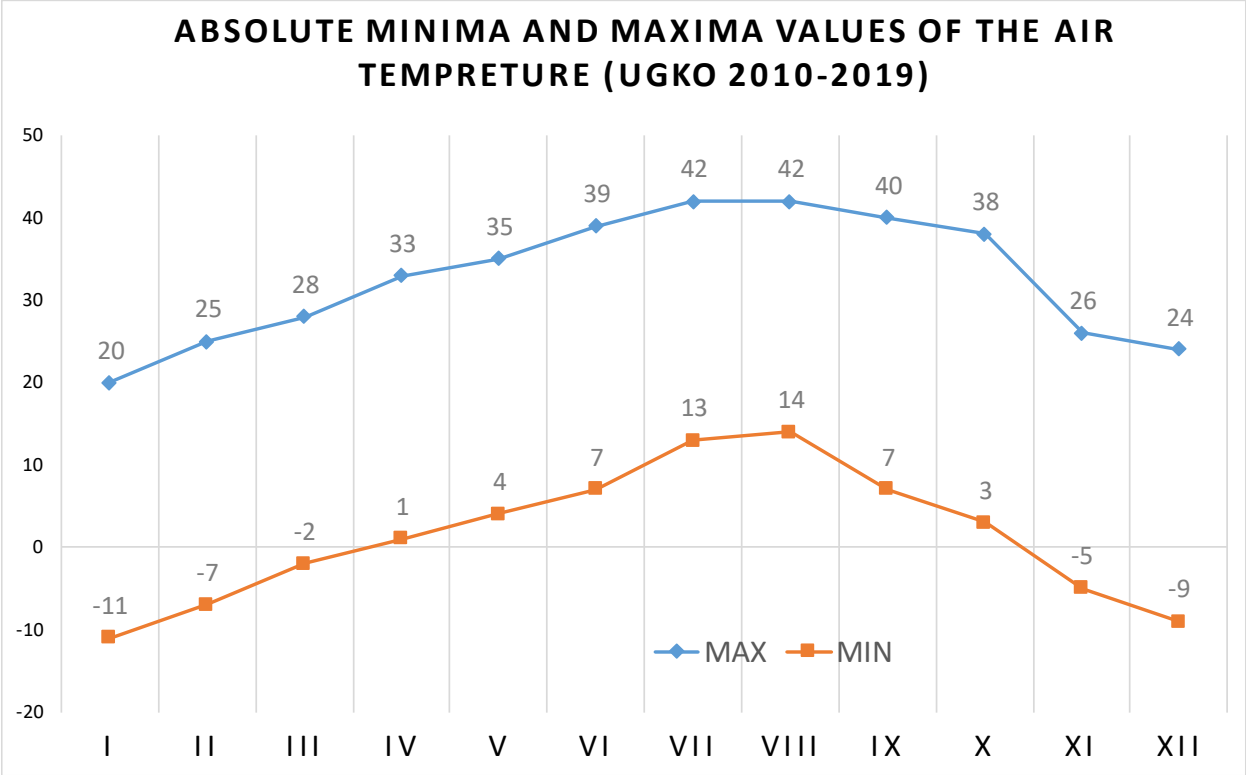
AERODROME: UGKO MONTHLY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 148992 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

Absolute Minimum and Maximum Values of the Air Temperature (UGKO 2010-2019)

| TEMP ($C^0$) | MONTH | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | I | II | III | IV | V | VI | VII | VIII | IX | X | XI | XII |
| MAX | 20 | 25 | 28 | 33 | 35 | 39 | 42 | 42 | 40 | 38 | 26 | 24 |
| MIN | -11 | -7 | -2 | 1 | 4 | 7 | 13 | 14 | 7 | 3 | -5 | -9 |



## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL L**
**TABULAR FORM**

AERODROME: UGKO MONTHLY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 148992 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

MAXIMUM VALUE OF THE WIND GUST (UGKO 2010-2019)

| WIND GUST SPEED | MONTH | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | I | II | III | IV | V | VI | VII | VIII | IX | X | XI | XII |
| KT (KNOT) | 58 | 60 | 63 | 68 | 53 | 55 | 51 | 53 | 59 | 59 | 71 | 58 |
| M / S | 30 | 31 | 32 | 35 | 27 | 28 | 26 | 27 | 30 | 30 | 37 | 30 |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: JANUARY PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF JANUARY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF FEBRUARY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: MARCH PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF MARCH) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: APRIL PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF APRIL) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | |
| 0400 | WORSE | GOOD | |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: MAY PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF MAY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | | | |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: JUNE PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF JUNE) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | | | |
| 1200 | | | |
| 1300 | | | |
| 1400 | | | |
| 1500 | | | |
| 1600 | | | |
| 1700 | | | |
| 1800 | | | |
| 1900 | | | |
| 2000 | | | |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: JULY PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF JULY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | | | |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | | | |
| 1600 | | | |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | | | |
| 1900 | | | |
| 2000 | | | |
| 2100 | | | |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | | | |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: AUGUST PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF AUGUST) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | | | |
| 0100 | | | |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | |
| 0400 | WORSE | | |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | | | |
| 1800 | | | |
| 1900 | | | |
| 2000 | | | |
| 2100 | | | |
| 2200 | | | |
| 2300 | | | |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF SEPTEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | | | |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | | | |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | | | |
| 1700 | | | |
| 1800 | | | |
| 1900 | | | |
| 2000 | | | |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF OCTOBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF NOVEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

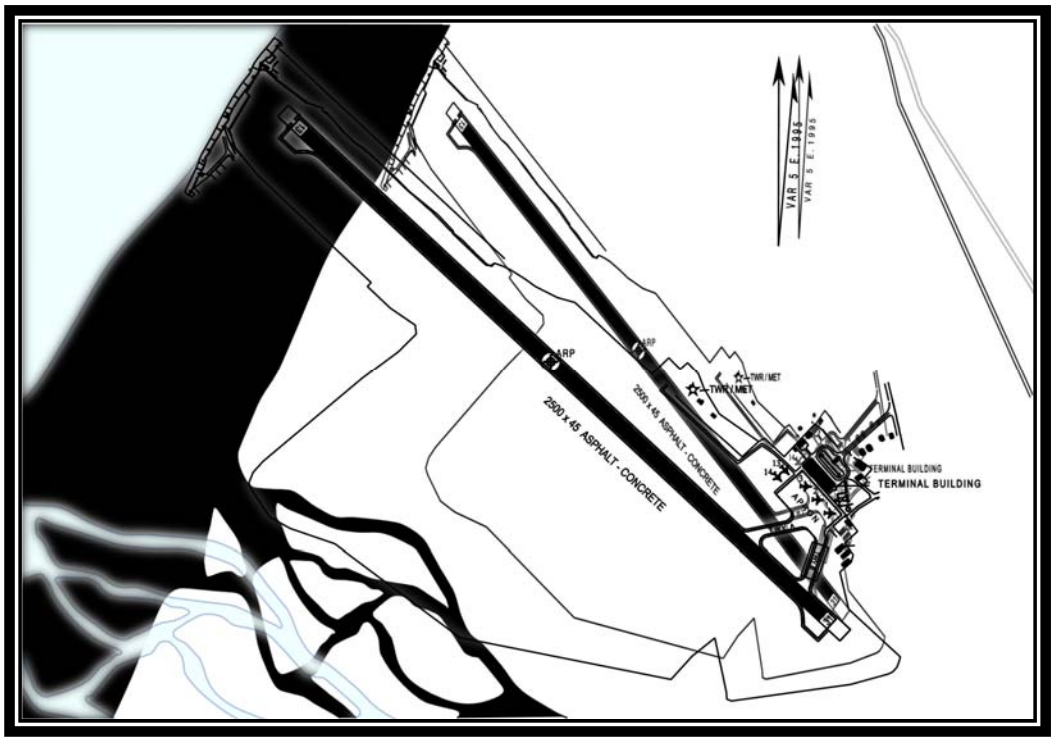
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGKO MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

LATITUDE: 421036.57N LONGITUDE: 0422857.77E ELEVATION ABOVE MSL: 160 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGKO AIRPORT (MONTH OF DECEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

# BATUMI INTERNATIONAL AIRPORT (UGSB)




Batumi International Airport is located 11m (37 ft) above sea level in the southeast part of Batumi at the mouth of the river Chorokhi on its right bank in the valley known as Kakhaberi's field. There is one runway with one touchdown zone (TDZ13). The valley runs from southeast to northwest and is bounded by branches of the Adjara-Guria ridge on its right and by endings of the Shavsheti ridge on its left. These mountains adjoin the airport territory in the 180°-040° sector. To the south of the weather station flows the river Chorokhi. In its 040°-180° sector the Airport territory abuts on the Black Sea. The height of the mountains located near Batumi International Airport and their distance from the observation site are given in Table No. 6.

Table No. 6. Height and distance from the observation site of the mountains located near Batumi International Airport

| Mountain | Height above sea level | | Distance from the observation site |
|---|---|---|---|
| | m. | Ft. | m. |
| Erge | 896 | 2939 | 9200 |
| Talakhnara | 760 | 2493 | 14 000 |
| Khala | 368 | 1207 | 20 000 |

Its location in the humid area of the subtropical zone, proximity to the Black Sea and its orographic features are specific characteristics of the climatic conditions of Batumi Airport. This territory, especially during winter, experiences moist winds, which is determined by the low pressure area in the southeast part of the Black Sea. It is known that at the Adjara shore the temperature of the sea is relatively higher (especially during winter) than at the other Black Sea shores of the Caucasus. Due to that fact, the heat transfer factor of the sea is far more noticeable here. It increases instability of air humidity and determines the abundance of atmospheric precipitation on the sea coast, which the mountain ridges located nearby contribute to. They also play an important role in the process of occlusion of Mediterranean cyclones and associated heavy precipitation, low clouds, and reduced visibility, which occur here quite often. It should also be noted, that air masses which passe over the surface of the Black Sea receive additional moisture, which in its turn strengthens the impact of the sea on the masses.

Climatological data of Batumi international airport for 2010 and for the first six months of 2011 were processed on the basis of one-hour METARs, while the subsequent period on the basis of thirty-minute (xx20 and xx50) METARs.

**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

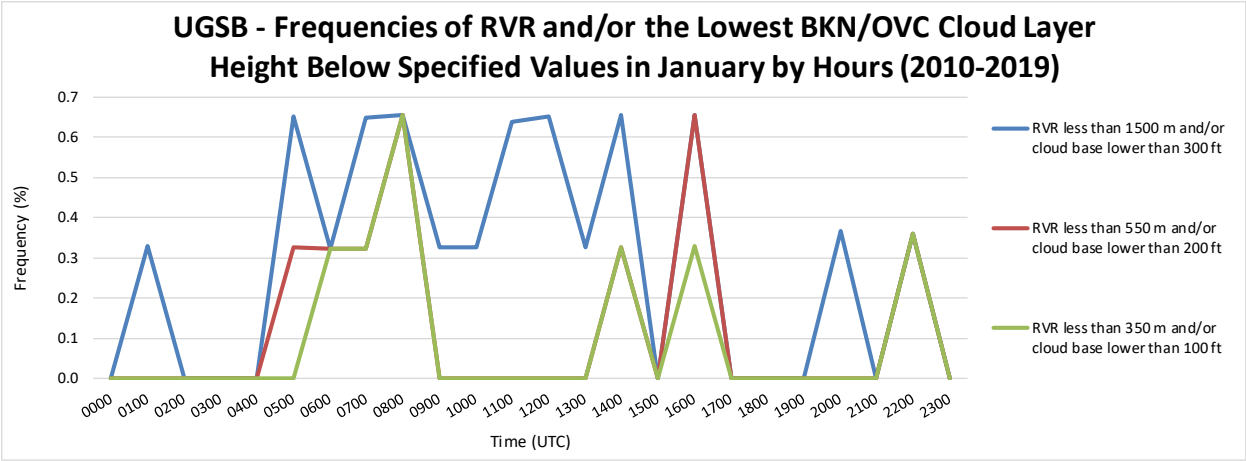
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | 0.71 | 2.13 | 22.34 |
| 0100 | - | - | - | - | 0.33 | - | 0.98 | 2.62 | 30.82 |
| 0200 | - | - | - | - | - | - | 0.36 | 2.14 | 23.84 |
| 0300 | - | - | - | - | - | - | 0.36 | 2.49 | 24.20 |
| 0400 | - | - | - | - | - | 0.32 | 0.65 | 1.62 | 31.49 |
| 0500 | - | - | - | 0.33 | 0.65 | - | 1.63 | 2.93 | 14.98 |
| 0600 | - | - | 0.32 | 0.32 | 0.32 | - | 0.64 | 2.25 | 17.04 |
| 0700 | - | - | 0.32 | 0.32 | 0.65 | 1.29 | 1.62 | 2.59 | 15.21 |
| 0800 | - | - | 0.66 | 0.66 | 0.66 | 0.66 | 0.98 | 2.62 | 12.46 |
| 0900 | - | - | - | - | 0.32 | - | 0.65 | 2.27 | 13.96 |
| 1000 | - | - | - | - | 0.33 | 0.33 | 0.33 | 0.98 | 12.38 |
| 1100 | - | - | - | - | 0.64 | 0.32 | 0.96 | 1.28 | 14.70 |
| 1200 | - | - | - | - | 0.65 | 0.33 | 1.63 | 3.58 | 15.96 |
| 1300 | - | - | - | - | 0.33 | 0.33 | 1.31 | 3.27 | 15.69 |
| 1400 | - | - | 0.33 | 0.33 | 0.65 | 0.65 | 0.98 | 3.92 | 20.59 |
| 1500 | - | - | - | - | - | 0.33 | 0.33 | 1.99 | 32.12 |
| 1600 | - | - | 0.33 | 0.66 | 0.66 | 0.66 | 0.98 | 2.30 | 31.80 |
| 1700 | - | - | - | - | - | - | 0.35 | 1.75 | 23.51 |
| 1800 | - | - | - | - | - | 0.36 | 0.36 | 1.44 | 20.86 |
| 1900 | - | - | - | - | - | - | 0.33 | 1.31 | 29.74 |
| 2000 | - | - | - | - | 0.37 | 0.37 | 0.74 | 2.21 | 20.59 |
| 2100 | - | - | - | - | - | 0.37 | 0.75 | 2.25 | 19.48 |
| 2200 | - | - | 0.36 | 0.36 | 0.36 | 0.36 | 1.08 | 2.52 | 25.54 |
| 2300 | - | - | - | - | - | 0.40 | 0.80 | 2.00 | 15.20 |
| TOTAL | - | - | 0.10 | 0.13 | 0.30 | 0.30 | 0.82 | 2.27 | 21.01 |

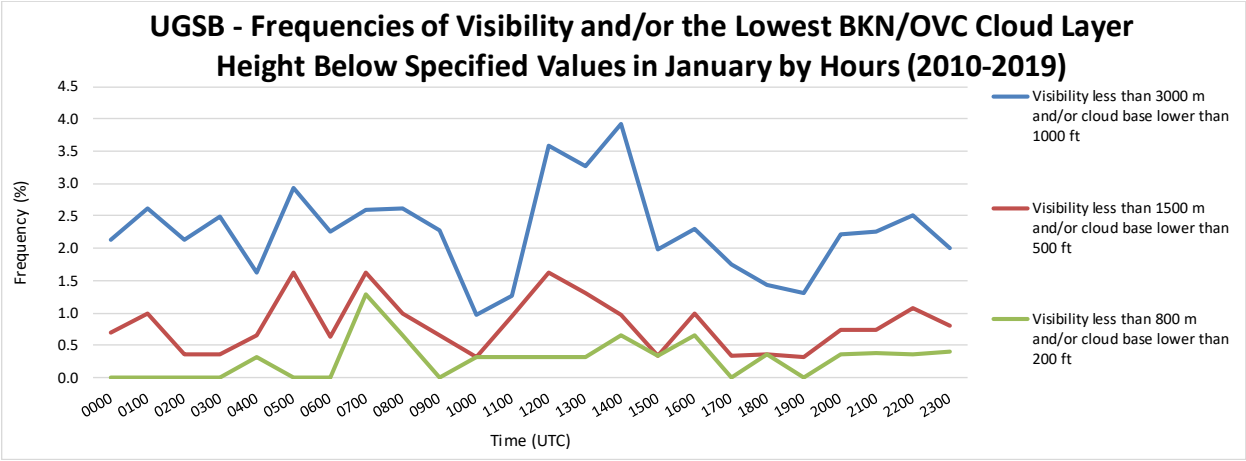
In January, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.10% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.82% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 2.27% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 6768 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

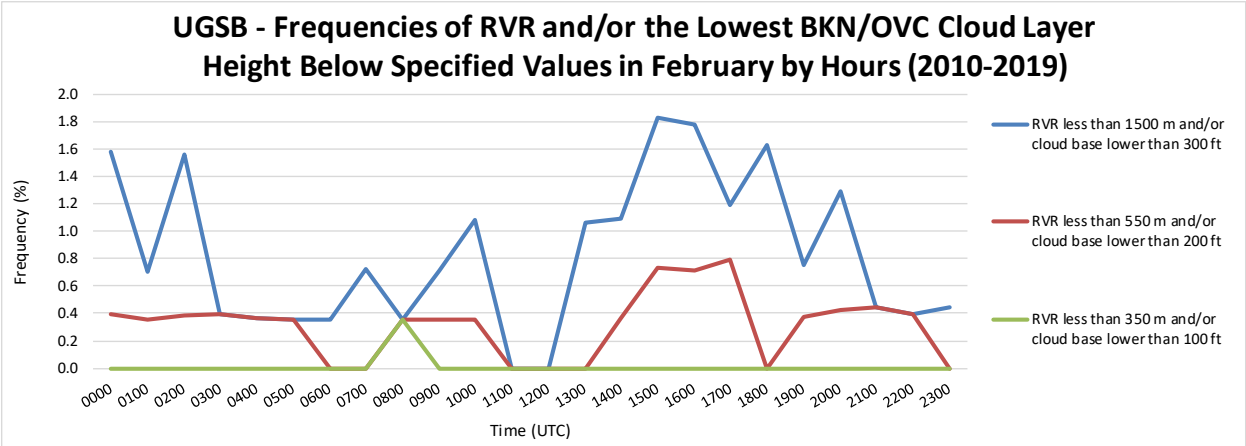
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | 0.40 | 1.58 | 0.40 | 2.77 | 5.14 | 27.27 |
| 0100 | - | - | - | 0.35 | 0.70 | 0.35 | 1.41 | 4.93 | 33.80 |
| 0200 | - | - | - | 0.39 | 1.56 | 0.78 | 1.95 | 5.45 | 25.68 |
| 0300 | - | - | - | 0.39 | 0.39 | 0.39 | 0.78 | 3.92 | 27.06 |
| 0400 | - | - | - | 0.36 | 0.36 | 0.36 | 0.72 | 3.97 | 29.60 |
| 0500 | - | - | - | 0.36 | 0.36 | 0.36 | 0.36 | 4.98 | 21.00 |
| 0600 | - | - | - | - | 0.36 | 0.36 | 0.71 | 4.29 | 17.86 |
| 0700 | - | - | - | - | 0.72 | - | 1.08 | 3.96 | 16.55 |
| 0800 | - | - | 0.35 | 0.35 | 0.35 | 0.35 | 0.71 | 2.12 | 13.78 |
| 0900 | - | - | - | 0.35 | 0.71 | 0.35 | 1.06 | 3.19 | 15.96 |
| 1000 | - | - | - | 0.36 | 1.08 | 0.72 | 0.72 | 3.24 | 16.19 |
| 1100 | - | - | - | - | - | - | 0.36 | 3.91 | 13.52 |
| 1200 | - | - | - | - | - | - | - | 1.76 | 15.14 |
| 1300 | - | - | - | - | 1.06 | 0.35 | 1.42 | 3.55 | 16.31 |
| 1400 | - | - | - | 0.36 | 1.09 | 0.72 | 0.72 | 2.90 | 15.22 |
| 1500 | - | - | - | 0.73 | 1.82 | 1.46 | 2.19 | 3.65 | 28.10 |
| 1600 | - | - | - | 0.71 | 1.78 | 1.42 | 2.14 | 3.20 | 30.96 |
| 1700 | - | - | - | 0.79 | 1.19 | 1.19 | 1.59 | 2.78 | 23.81 |
| 1800 | - | - | - | - | 1.63 | 1.22 | 1.63 | 3.67 | 24.49 |
| 1900 | - | - | - | 0.38 | 0.76 | 1.14 | 1.14 | 3.03 | 29.17 |
| 2000 | - | - | - | 0.43 | 1.29 | 1.29 | 1.72 | 4.29 | 22.75 |
| 2100 | - | - | - | 0.44 | 0.44 | 0.88 | 0.88 | 4.41 | 19.38 |
| 2200 | - | - | - | 0.39 | 0.39 | 0.39 | 0.39 | 1.57 | 27.06 |
| 2300 | - | - | - | - | 0.44 | 0.44 | 1.33 | 2.21 | 18.14 |
| TOTAL | - | - | 0.02 | 0.31 | 0.83 | 0.61 | 1.14 | 3.58 | 21.96 |

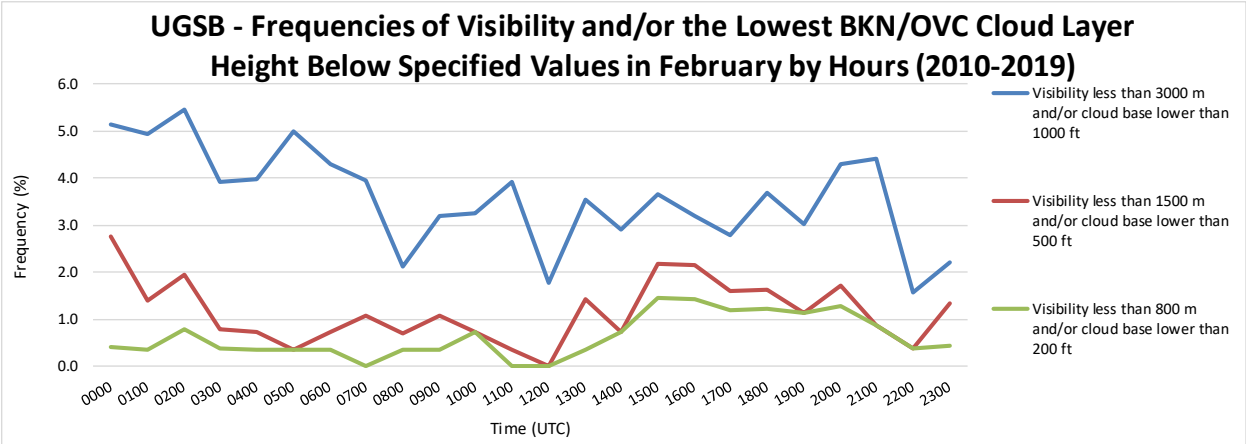
In February, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.02% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 1.14% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 3.58% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

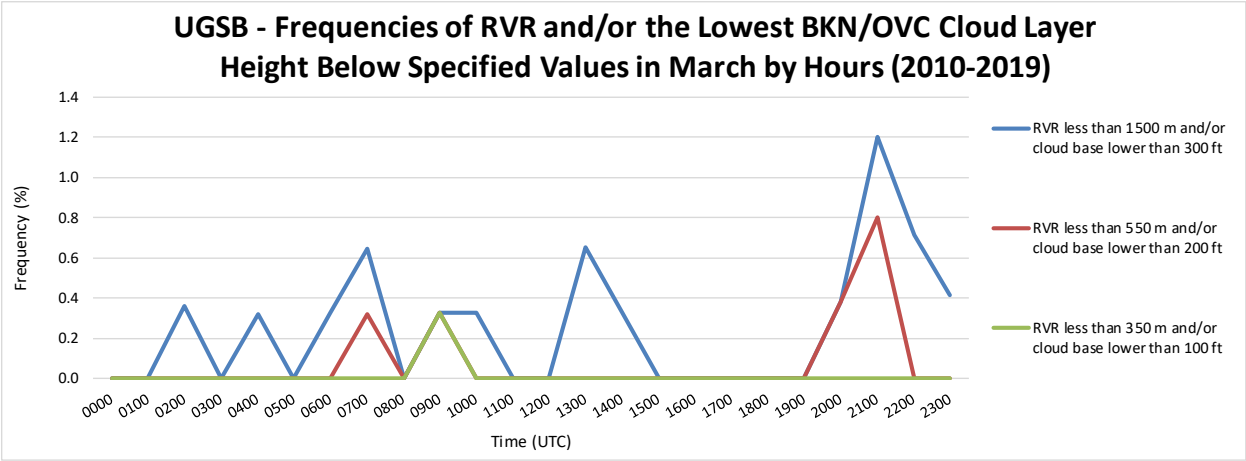
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | 0.73 | 3.65 | 22.26 |
| 0100 | - | - | - | - | - | - | 0.65 | 3.27 | 31.05 |
| 0200 | - | - | - | - | 0.36 | - | 0.72 | 4.30 | 21.86 |
| 0300 | - | - | - | - | - | - | 0.36 | 3.21 | 20.00 |
| 0400 | - | - | - | - | 0.32 | - | 0.32 | 2.91 | 20.39 |
| 0500 | - | - | - | - | - | - | 0.33 | 4.23 | 17.26 |
| 0600 | - | - | - | - | 0.32 | 0.32 | 0.65 | 4.22 | 18.51 |
| 0700 | - | - | - | 0.32 | 0.65 | - | 0.65 | 4.53 | 17.80 |
| 0800 | - | - | - | - | - | - | 0.99 | 3.64 | 18.54 |
| 0900 | - | - | 0.33 | 0.33 | 0.33 | - | 0.66 | 4.62 | 18.15 |
| 1000 | - | - | - | - | 0.33 | - | - | 2.93 | 14.98 |
| 1100 | - | - | - | - | - | - | - | 2.30 | 16.72 |
| 1200 | - | - | - | - | - | - | 0.65 | 4.56 | 18.24 |
| 1300 | - | - | - | - | 0.66 | - | 0.98 | 3.61 | 19.34 |
| 1400 | - | - | - | - | 0.33 | - | 0.66 | 3.62 | 16.12 |
| 1500 | - | - | - | - | - | - | 0.67 | 3.33 | 16.67 |
| 1600 | - | - | - | - | - | 0.33 | 0.66 | 3.29 | 24.01 |
| 1700 | - | - | - | - | - | - | 0.36 | 2.55 | 18.91 |
| 1800 | - | - | - | - | - | - | - | 2.23 | 17.47 |
| 1900 | - | - | - | - | - | 0.34 | 0.34 | 2.69 | 25.25 |
| 2000 | - | - | - | 0.38 | 0.38 | 0.38 | 0.76 | 3.82 | 17.94 |
| 2100 | - | - | - | 0.80 | 1.20 | 0.80 | 2.40 | 4.00 | 17.60 |
| 2200 | - | - | - | - | 0.72 | 0.36 | 1.43 | 3.23 | 27.96 |
| 2300 | - | - | - | - | 0.41 | 0.41 | 1.24 | 3.32 | 17.01 |
| TOTAL | - | - | 0.01 | 0.07 | 0.24 | 0.11 | 0.66 | 3.51 | 19.77 |

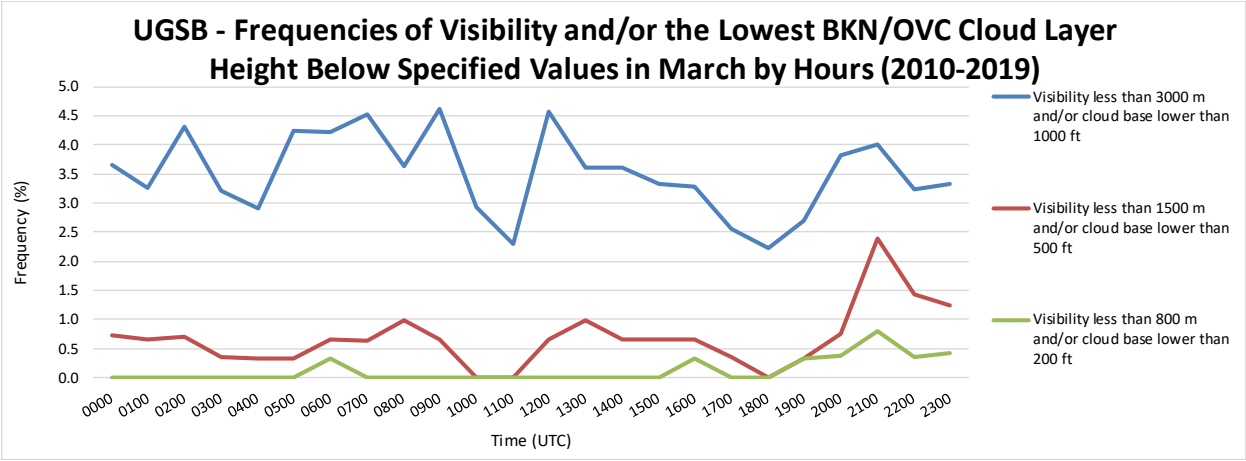
In March, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 350 meters and/or cloud ceiling below 100 feet, based on Ten-year observation, constitutes 0.01% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.66% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 3.51% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

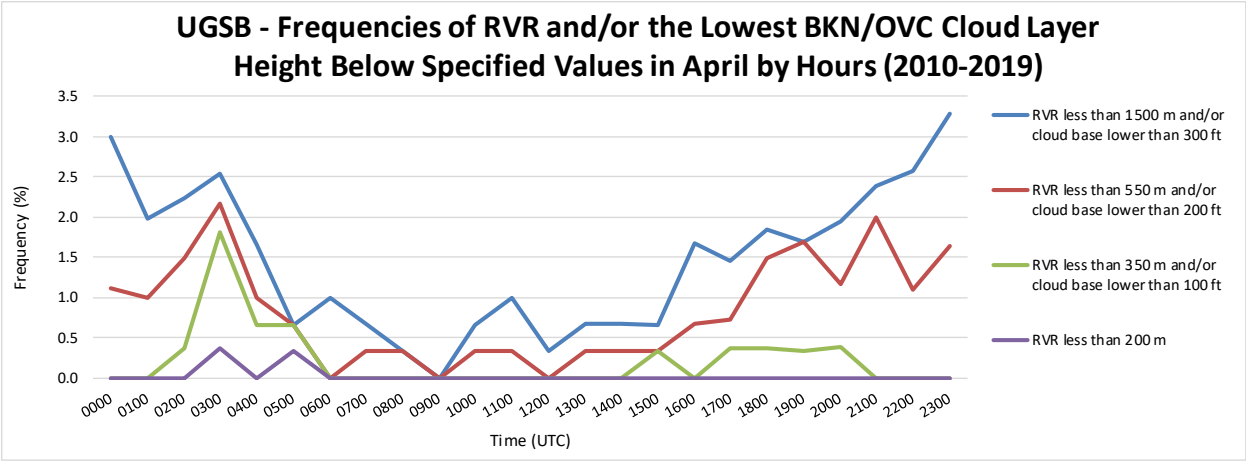
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | 1.12 | 3.00 | 1.50 | 2.62 | 5.62 | 19.10 |
| 0100 | - | - | - | 0.99 | 1.98 | 1.65 | 2.97 | 6.27 | 27.06 |
| 0200 | - | - | 0.37 | 1.49 | 2.23 | 1.86 | 3.35 | 5.58 | 19.70 |
| 0300 | - | 0.36 | 1.81 | 2.17 | 2.54 | 2.54 | 3.99 | 7.97 | 21.74 |
| 0400 | - | - | 0.67 | 1.00 | 1.67 | 1.67 | 3.00 | 6.67 | 18.00 |
| 0500 | - | 0.33 | 0.66 | 0.66 | 0.66 | 0.33 | 0.66 | 4.97 | 13.25 |
| 0600 | - | - | - | - | 1.00 | 0.33 | 1.33 | 5.67 | 14.67 |
| 0700 | - | - | - | 0.33 | 0.67 | 0.67 | 2.68 | 6.02 | 15.05 |
| 0800 | - | - | - | 0.33 | 0.33 | 0.33 | 1.00 | 4.67 | 13.67 |
| 0900 | - | - | - | - | - | - | 1.00 | 3.00 | 10.67 |
| 1000 | - | - | - | 0.33 | 0.66 | 0.66 | 1.33 | 4.65 | 11.63 |
| 1100 | - | - | - | 0.33 | 1.00 | 0.67 | 1.67 | 4.35 | 12.37 |
| 1200 | - | - | - | - | 0.34 | - | 1.03 | 3.77 | 13.36 |
| 1300 | - | - | - | 0.34 | 0.67 | 0.67 | 1.68 | 4.03 | 16.44 |
| 1400 | - | - | - | 0.34 | 0.67 | 0.67 | 2.02 | 4.71 | 14.81 |
| 1500 | - | - | 0.33 | 0.33 | 0.67 | 0.33 | 1.67 | 4.67 | 15.33 |
| 1600 | - | - | - | 0.67 | 1.67 | 1.00 | 2.34 | 5.02 | 21.74 |
| 1700 | - | - | 0.36 | 0.73 | 1.45 | 1.09 | 1.45 | 4.00 | 18.91 |
| 1800 | - | - | 0.37 | 1.48 | 1.85 | 1.48 | 1.85 | 4.07 | 17.78 |
| 1900 | - | - | 0.34 | 1.69 | 1.69 | 1.69 | 2.03 | 4.39 | 24.66 |
| 2000 | - | - | 0.39 | 1.17 | 1.95 | 1.95 | 2.73 | 4.30 | 16.02 |
| 2100 | - | - | - | 1.99 | 2.39 | 1.59 | 3.59 | 5.98 | 18.73 |
| 2200 | - | - | - | 1.10 | 2.57 | 2.21 | 2.94 | 5.15 | 25.74 |
| 2300 | - | - | - | 1.65 | 3.29 | 3.29 | 4.12 | 5.35 | 15.23 |
| TOTAL | - | 0.03 | 0.22 | 0.82 | 1.41 | 1.14 | 2.17 | 5.03 | 17.26 |

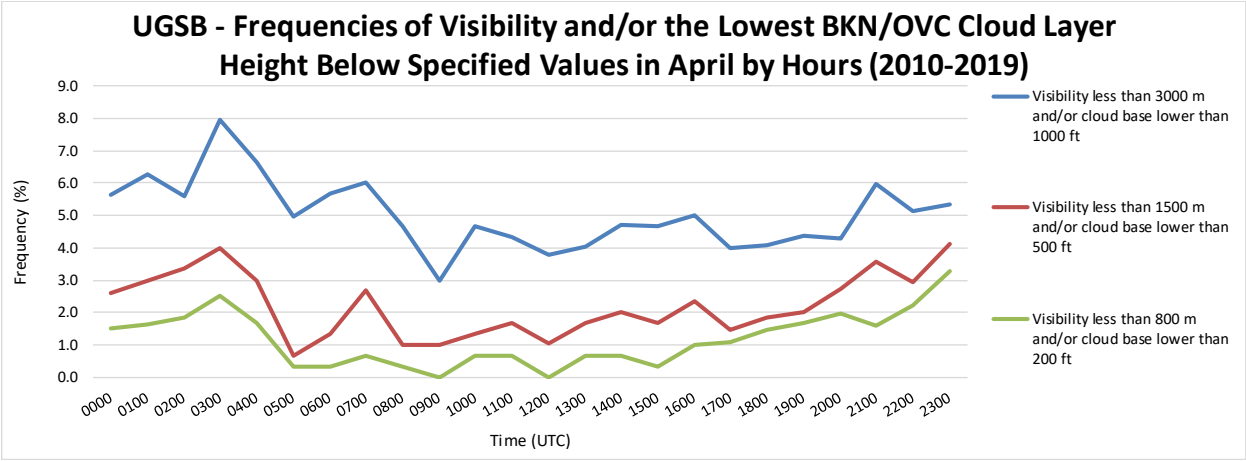
In April, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 200 meters, based on Ten-year observation, constitutes 0.03% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 2.17% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 5.03% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

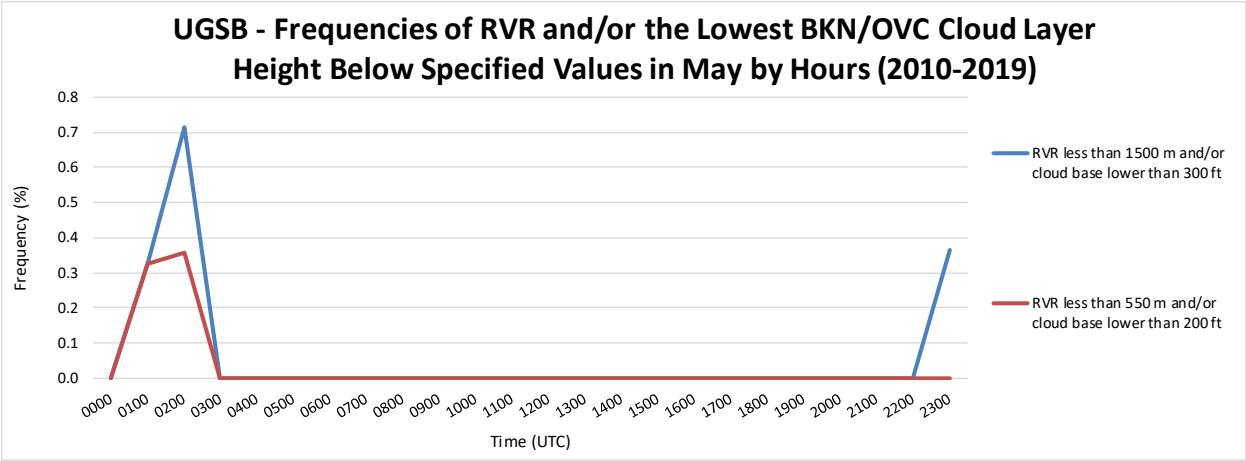
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | 1.45 | 12.36 |
| 0100 | - | - | - | 0.33 | 0.33 | 0.65 | 0.65 | 3.58 | 21.82 |
| 0200 | - | - | - | 0.36 | 0.71 | 0.71 | 2.14 | 5.00 | 15.71 |
| 0300 | - | - | - | - | - | 0.35 | 0.71 | 3.53 | 13.07 |
| 0400 | - | - | - | - | - | 0.32 | 0.65 | 2.59 | 13.59 |
| 0500 | - | - | - | - | - | 0.32 | 0.32 | 2.89 | 14.15 |
| 0600 | - | - | - | - | - | 0.32 | 0.64 | 2.25 | 12.86 |
| 0700 | - | - | - | - | - | 0.32 | 0.65 | 2.26 | 12.26 |
| 0800 | - | - | - | - | - | 0.32 | 0.32 | 3.23 | 12.58 |
| 0900 | - | - | - | - | - | 0.33 | 0.33 | 2.93 | 11.73 |
| 1000 | - | - | - | - | - | 0.32 | 0.32 | 2.27 | 11.36 |
| 1100 | - | - | - | - | - | 0.32 | 0.65 | 1.95 | 9.74 |
| 1200 | - | - | - | - | - | 0.32 | 0.65 | 2.26 | 9.35 |
| 1300 | - | - | - | - | - | 0.32 | 0.65 | 1.94 | 9.39 |
| 1400 | - | - | - | - | - | 0.33 | 0.33 | 2.29 | 10.13 |
| 1500 | - | - | - | - | - | 0.33 | 0.33 | 1.98 | 12.87 |
| 1600 | - | - | - | - | - | 0.32 | 0.32 | 1.62 | 11.97 |
| 1700 | - | - | - | - | - | 0.35 | 0.35 | 2.12 | 16.96 |
| 1800 | - | - | - | - | - | 0.36 | 0.36 | 1.78 | 16.01 |
| 1900 | - | - | - | - | - | 0.33 | 0.33 | 1.99 | 22.52 |
| 2000 | - | - | - | - | - | 0.36 | 0.36 | 1.81 | 15.94 |
| 2100 | - | - | - | - | - | 0.37 | 0.37 | 2.57 | 13.60 |
| 2200 | - | - | - | - | - | 0.34 | 0.68 | 2.36 | 21.28 |
| 2300 | - | - | - | - | 0.36 | 0.36 | 0.73 | 1.82 | 14.96 |
| TOTAL | - | - | - | 0.03 | 0.06 | 0.35 | 0.53 | 2.44 | 13.96 |

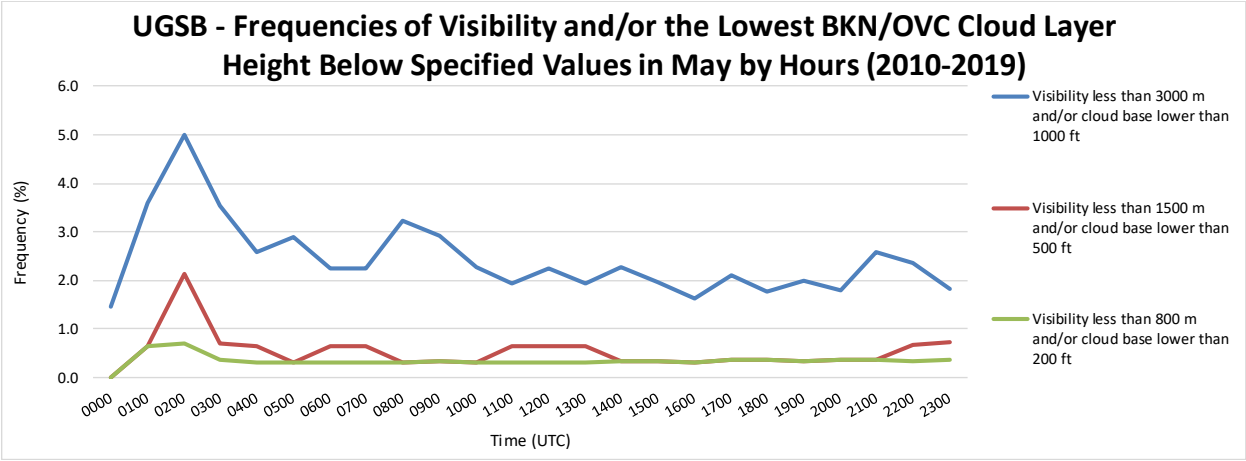
In May, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 550 meters and/or cloud ceiling below 200 feet, based on Ten-year observation, constitutes 0.03% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.53% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 2.44% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

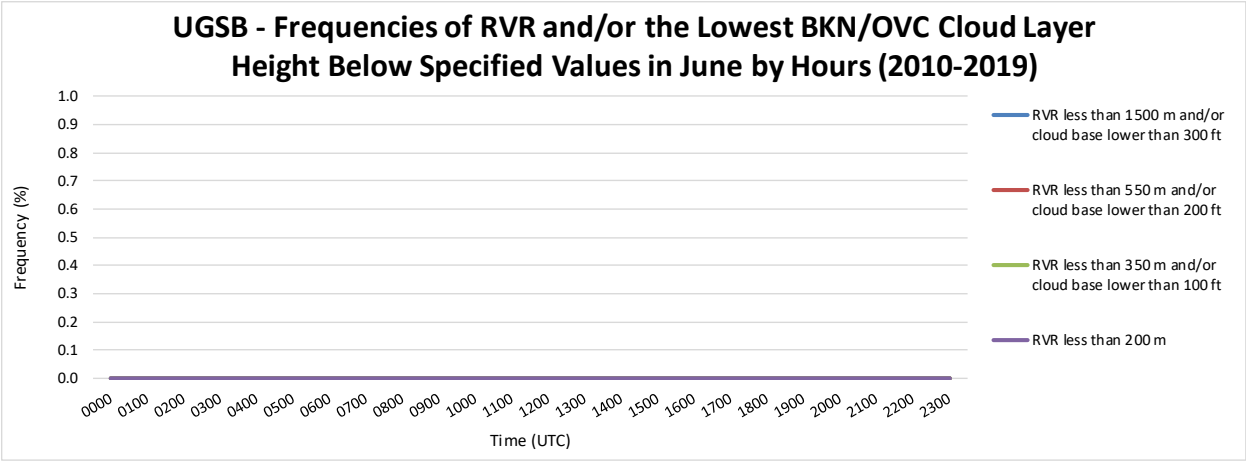
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | 0.75 | 7.84 |
| 0100 | - | - | - | - | - | - | - | 0.34 | 15.02 |
| 0200 | - | - | - | - | - | - | - | 0.74 | 9.93 |
| 0300 | - | - | - | - | - | - | - | 0.69 | 4.81 |
| 0400 | - | - | - | - | - | - | - | 0.34 | 5.70 |
| 0500 | - | - | - | - | - | - | - | 0.67 | 4.71 |
| 0600 | - | - | - | - | - | - | - | 1.00 | 7.31 |
| 0700 | - | - | - | - | - | - | - | 0.99 | 4.97 |
| 0800 | - | - | - | - | - | - | - | 0.67 | 5.67 |
| 0900 | - | - | - | - | - | - | 0.34 | 1.68 | 4.36 |
| 1000 | - | - | - | - | - | - | - | 0.34 | 5.37 |
| 1100 | - | - | - | - | - | - | - | 0.67 | 3.69 |
| 1200 | - | - | - | - | - | - | - | 0.67 | 4.71 |
| 1300 | - | - | - | - | - | - | - | 1.33 | 6.67 |
| 1400 | - | - | - | - | - | - | - | 0.34 | 5.03 |
| 1500 | - | - | - | - | - | - | - | 1.36 | 5.78 |
| 1600 | - | - | - | - | - | - | 0.33 | 0.67 | 6.67 |
| 1700 | - | - | - | - | - | - | - | 0.37 | 7.69 |
| 1800 | - | - | - | - | - | - | - | 0.37 | 6.67 |
| 1900 | - | - | - | - | - | - | - | - | 14.72 |
| 2000 | - | - | - | - | - | - | - | 0.36 | 8.76 |
| 2100 | - | - | - | - | - | - | - | 0.73 | 7.27 |
| 2200 | - | - | - | - | - | - | - | 0.67 | 16.67 |
| 2300 | - | - | - | - | - | - | 0.37 | 0.37 | 8.46 |
| TOTAL | - | - | - | - | - | - | 0.04 | 0.67 | 7.42 |

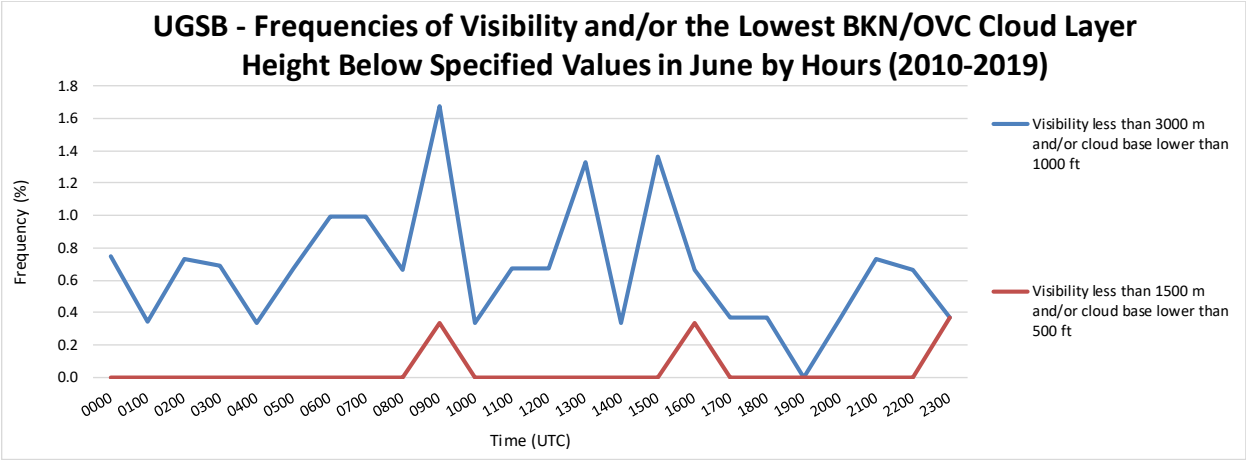
In June, based on Ten-year observation the RVR (Runway Visual Range) minimum values are not observed (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.04% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 0.67% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

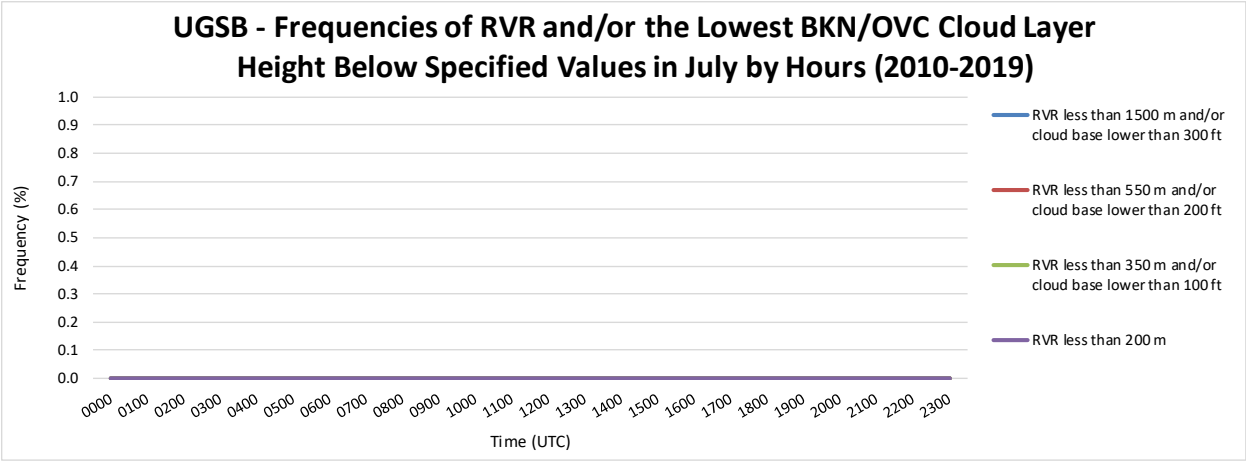
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | - | 7.55 |
| 0100 | - | - | - | - | - | - | - | - | 14.71 |
| 0200 | - | - | - | - | - | - | - | 1.38 | 8.65 |
| 0300 | - | - | - | - | - | - | - | 1.01 | 6.76 |
| 0400 | - | - | - | - | - | - | - | 0.98 | 6.51 |
| 0500 | - | - | - | - | - | 0.33 | 0.33 | 0.65 | 6.21 |
| 0600 | - | - | - | - | - | - | - | 1.30 | 5.21 |
| 0700 | - | - | - | - | - | - | - | 1.61 | 5.47 |
| 0800 | - | - | - | - | - | - | - | 0.97 | 3.90 |
| 0900 | - | - | - | - | - | - | - | 0.32 | 4.87 |
| 1000 | - | - | - | - | - | - | - | 0.98 | 4.89 |
| 1100 | - | - | - | - | - | - | - | 0.65 | 4.89 |
| 1200 | - | - | - | - | - | - | 0.33 | 0.33 | 3.93 |
| 1300 | - | - | - | - | - | - | - | 0.97 | 4.87 |
| 1400 | - | - | - | - | - | - | - | 0.99 | 4.93 |
| 1500 | - | - | - | - | - | - | - | 0.99 | 4.93 |
| 1600 | - | - | - | - | - | - | 0.33 | 0.66 | 5.25 |
| 1700 | - | - | - | - | - | - | 0.34 | 0.34 | 11.03 |
| 1800 | - | - | - | - | - | - | 0.34 | 0.68 | 11.60 |
| 1900 | - | - | - | - | - | - | - | - | 14.71 |
| 2000 | - | - | - | - | - | - | - | - | 8.42 |
| 2100 | - | - | - | - | - | - | - | 0.35 | 7.77 |
| 2200 | - | - | - | - | - | - | - | 0.33 | 15.00 |
| 2300 | - | - | - | - | - | - | - | 1.06 | 8.83 |
| TOTAL | - | - | - | - | - | 0.01 | 0.07 | 0.69 | 7.50 |

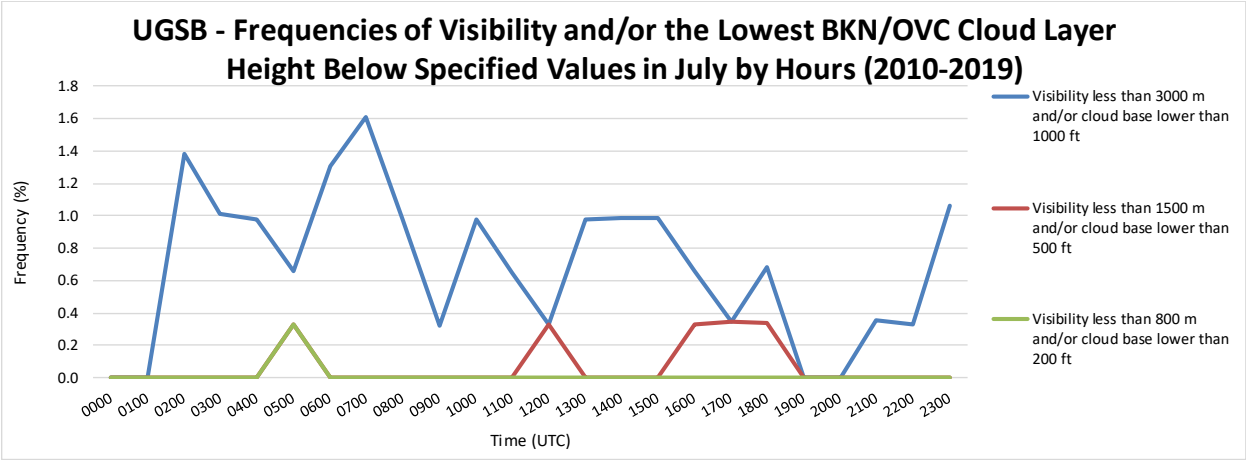
In July, based on eight-year observation the RVR (Runway Visual Range) minimum values are not observed (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.07% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 0.69% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

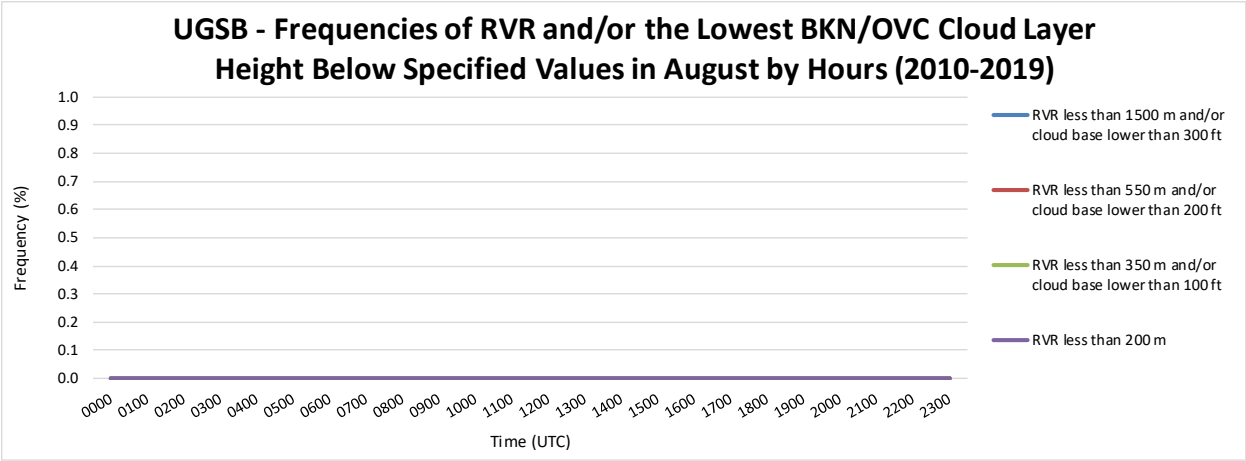
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | 0.72 | 7.89 |
| 0100 | - | - | - | - | - | - | - | - | 12.33 |
| 0200 | - | - | - | - | - | - | - | 0.35 | 8.51 |
| 0300 | - | - | - | - | - | - | - | 0.67 | 5.33 |
| 0400 | - | - | - | - | - | - | - | - | 4.29 |
| 0500 | - | - | - | - | - | - | - | 0.33 | 3.91 |
| 0600 | - | - | - | - | - | - | - | 1.34 | 4.70 |
| 0700 | - | - | - | - | - | - | - | 0.33 | 2.95 |
| 0800 | - | - | - | - | - | - | - | 0.98 | 2.61 |
| 0900 | - | - | - | - | - | - | - | 0.33 | 3.99 |
| 1000 | - | - | - | - | - | - | - | - | 2.97 |
| 1100 | - | - | - | - | - | - | 0.33 | 0.66 | 3.28 |
| 1200 | - | - | - | - | - | - | 0.33 | 0.66 | 5.57 |
| 1300 | - | - | - | - | - | - | - | 0.33 | 5.21 |
| 1400 | - | - | - | - | - | - | - | 0.33 | 3.92 |
| 1500 | - | - | - | - | - | - | - | 0.33 | 4.59 |
| 1600 | - | - | - | - | - | - | - | 0.33 | 9.57 |
| 1700 | - | - | - | - | - | - | - | - | 12.93 |
| 1800 | - | - | - | - | - | - | - | - | 12.89 |
| 1900 | - | - | - | - | - | - | - | - | 13.18 |
| 2000 | - | - | - | - | - | - | - | 0.70 | 8.04 |
| 2100 | - | - | - | - | - | - | - | 0.36 | 7.91 |
| 2200 | - | - | - | - | - | - | - | - | 12.54 |
| 2300 | - | - | - | - | - | - | - | - | 7.22 |
| TOTAL | - | - | - | - | - | - | 0.03 | 0.37 | 6.87 |

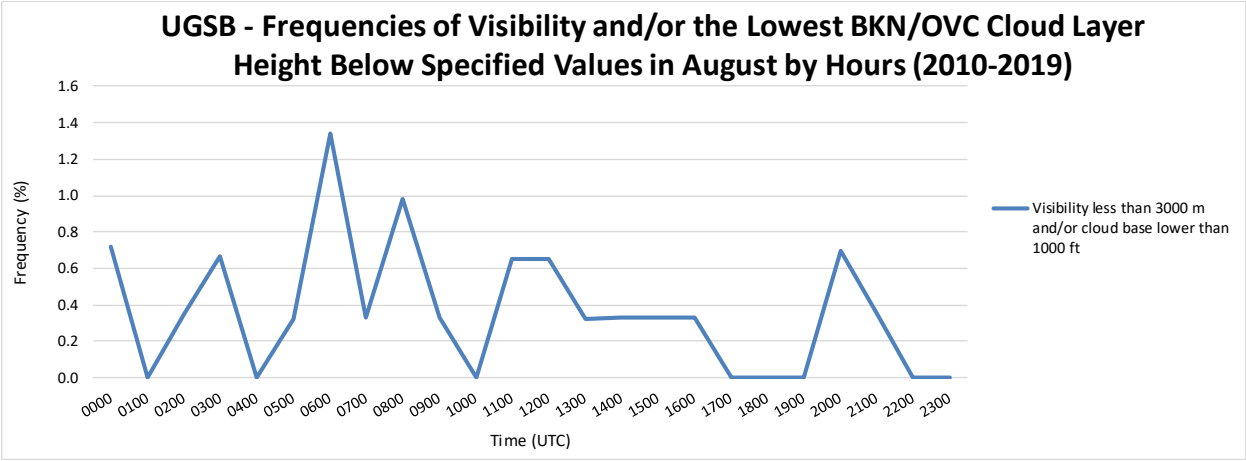
In August, based on Ten-year observation the RVR (Runway Visual Range) minimum values are not observed (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.03% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 0.37% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

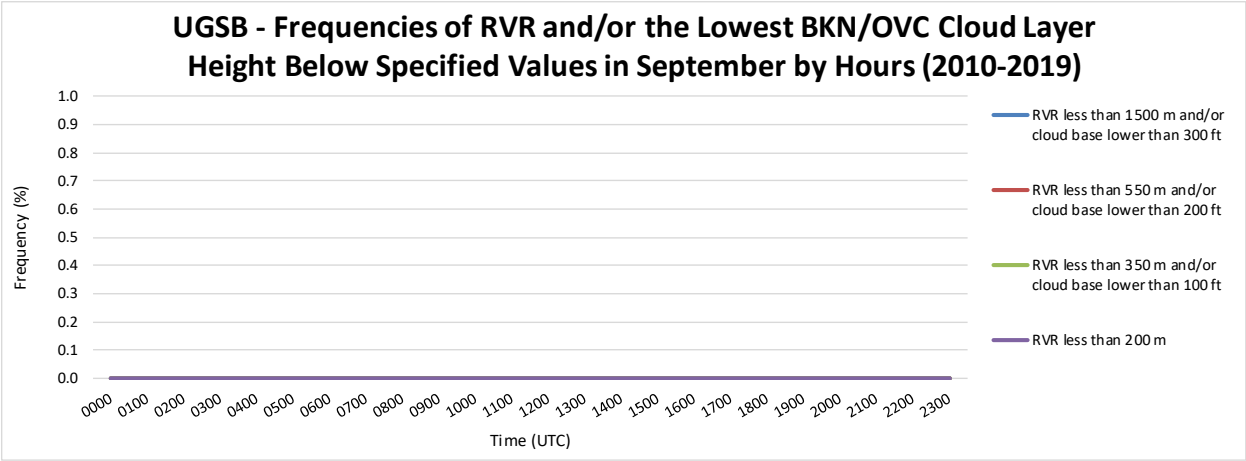
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | 0.73 | 9.45 |
| 0100 | - | - | - | - | - | - | - | 0.34 | 13.47 |
| 0200 | - | - | - | - | - | - | - | 0.36 | 8.03 |
| 0300 | - | - | - | - | - | - | - | 0.35 | 7.09 |
| 0400 | - | - | - | - | - | - | - | 1.01 | 6.40 |
| 0500 | - | - | - | - | - | - | - | 0.66 | 6.64 |
| 0600 | - | - | - | - | - | - | - | 0.34 | 7.05 |
| 0700 | - | - | - | - | - | - | 0.34 | 0.34 | 6.08 |
| 0800 | - | - | - | - | - | - | 0.34 | 0.34 | 5.37 |
| 0900 | - | - | - | - | - | - | - | 0.34 | 4.71 |
| 1000 | - | - | - | - | - | - | - | - | 4.73 |
| 1100 | - | - | - | - | - | - | - | - | 3.04 |
| 1200 | - | - | - | - | - | - | - | 0.34 | 5.03 |
| 1300 | - | - | - | - | - | - | - | - | 6.38 |
| 1400 | - | - | - | - | - | - | - | 1.02 | 4.75 |
| 1500 | - | - | - | - | - | - | - | 0.34 | 7.46 |
| 1600 | - | - | - | - | - | - | - | 0.67 | 14.77 |
| 1700 | - | - | - | - | - | - | - | - | 12.54 |
| 1800 | - | - | - | - | - | - | - | 0.36 | 5.76 |
| 1900 | - | - | - | - | - | - | - | 0.33 | 14.05 |
| 2000 | - | - | - | - | - | - | - | - | 9.19 |
| 2100 | - | - | - | - | - | - | - | 0.72 | 7.61 |
| 2200 | - | - | - | - | - | - | - | 0.34 | 12.84 |
| 2300 | - | - | - | - | - | - | - | 0.36 | 9.61 |
| TOTAL | - | - | - | - | - | - | 0.03 | 0.39 | 8.00 |

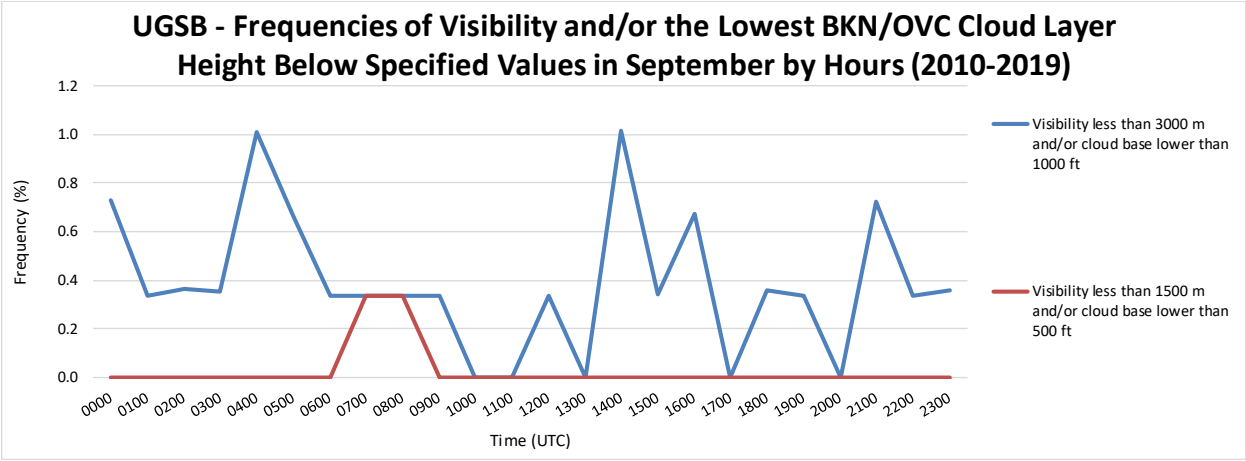
In September, based on Ten-year observation the RVR (Runway Visual Range) minimum values are not observed (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.03% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 0.39% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

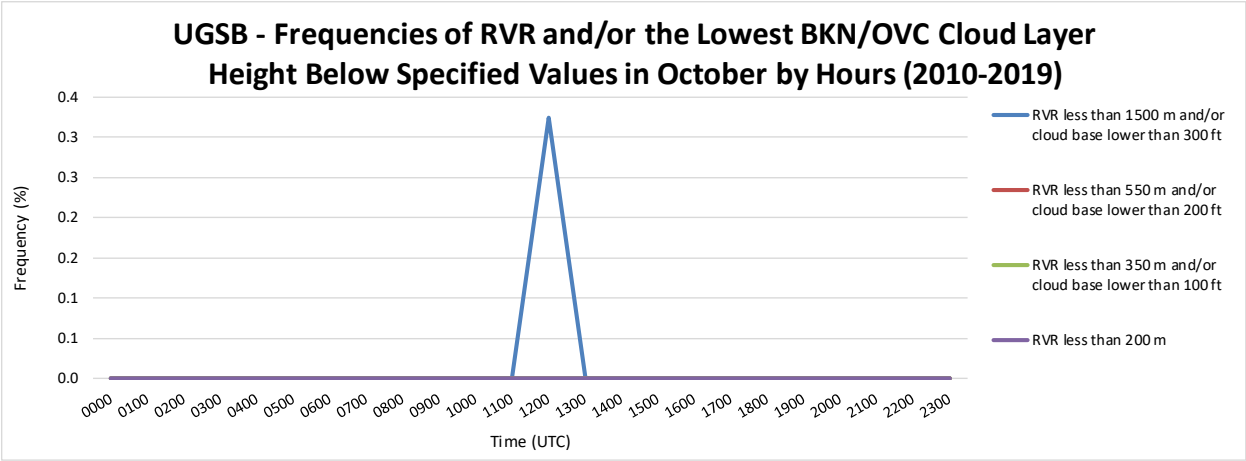
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | 0.34 | 15.75 |
| 0100 | - | - | - | - | - | - | - | 0.32 | 17.89 |
| 0200 | - | - | - | - | - | - | - | - | 15.53 |
| 0300 | - | - | - | - | - | - | - | 0.32 | 13.59 |
| 0400 | - | - | - | - | - | - | - | 0.64 | 7.37 |
| 0500 | - | - | - | - | - | - | - | 0.32 | 6.71 |
| 0600 | - | - | - | - | - | - | - | - | 7.72 |
| 0700 | - | - | - | - | - | - | - | 0.65 | 5.50 |
| 0800 | - | - | - | - | - | - | - | 0.33 | 5.59 |
| 0900 | - | - | - | - | - | - | - | - | 5.88 |
| 1000 | - | - | - | - | - | - | - | 0.32 | 6.49 |
| 1100 | - | - | - | - | - | - | - | 0.32 | 6.82 |
| 1200 | - | - | - | - | 0.32 | - | 0.32 | 0.65 | 6.49 |
| 1300 | - | - | - | - | - | - | - | 0.32 | 5.81 |
| 1400 | - | - | - | - | - | - | - | 0.32 | 6.75 |
| 1500 | - | - | - | - | - | - | - | - | 18.59 |
| 1600 | - | - | - | - | - | - | 0.32 | 0.32 | 16.29 |
| 1700 | - | - | - | - | - | - | - | - | 16.18 |
| 1800 | - | - | - | - | - | - | - | - | 14.47 |
| 1900 | - | - | - | - | - | - | - | 0.32 | 15.21 |
| 2000 | - | - | - | - | - | - | - | - | 15.48 |
| 2100 | - | - | - | - | - | - | - | 0.66 | 14.80 |
| 2200 | - | - | - | - | - | - | - | - | 16.45 |
| 2300 | - | - | - | - | - | - | - | 0.32 | 17.78 |
| TOTAL | - | - | - | - | 0.01 | - | 0.03 | 0.27 | 11.63 |

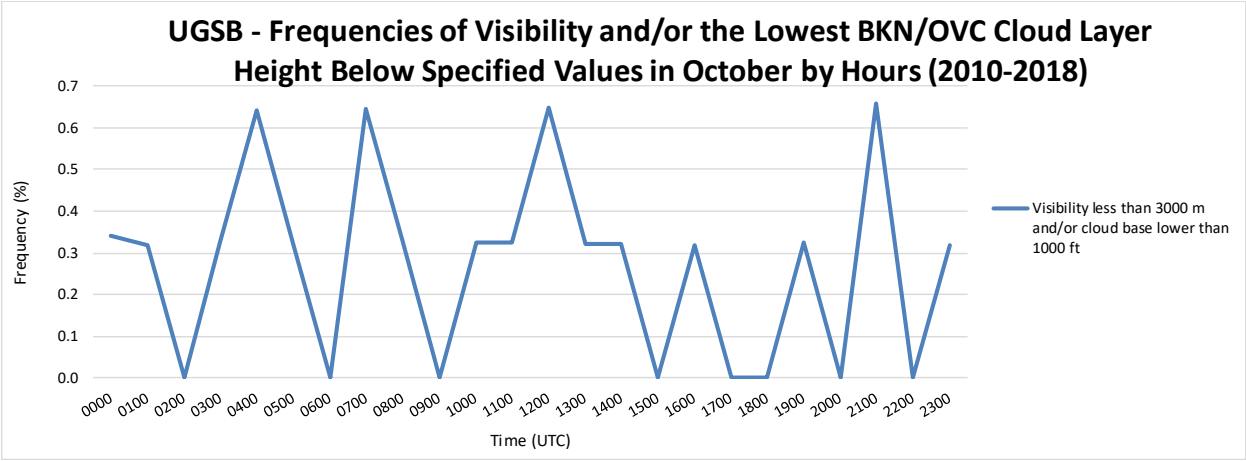
In October, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 1500 meters and/or cloud ceiling below 300 feet, based on Ten-year observation, constitutes 0.01% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.03% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 0.27% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

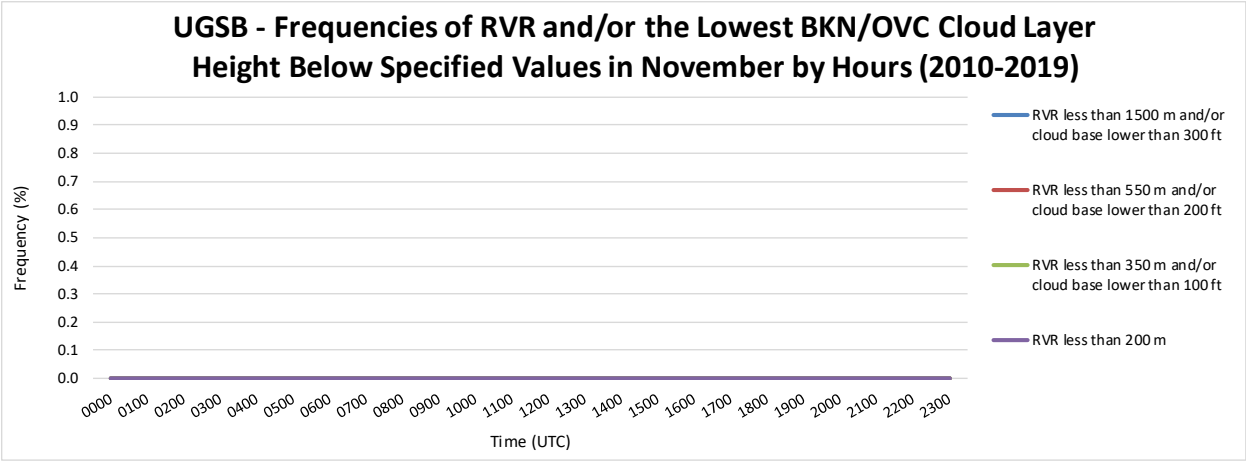
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | - | - | 17.75 |
| 0100 | - | - | - | - | - | - | - | 0.67 | 17.45 |
| 0200 | - | - | - | - | - | - | - | 0.33 | 15.46 |
| 0300 | - | - | - | - | - | - | - | 0.33 | 15.56 |
| 0400 | - | - | - | - | - | - | - | 0.67 | 11.33 |
| 0500 | - | - | - | - | - | - | 0.33 | 0.99 | 6.95 |
| 0600 | - | - | - | - | - | - | - | 0.33 | 6.35 |
| 0700 | - | - | - | - | - | - | - | 0.34 | 6.73 |
| 0800 | - | - | - | - | - | - | - | 0.99 | 6.60 |
| 0900 | - | - | - | - | - | - | - | 0.68 | 7.77 |
| 1000 | - | - | - | - | - | - | - | 0.66 | 5.92 |
| 1100 | - | - | - | - | - | - | - | 0.67 | 8.05 |
| 1200 | - | - | - | - | - | - | - | 0.33 | 6.35 |
| 1300 | - | - | - | - | - | - | - | 0.34 | 9.73 |
| 1400 | - | - | - | - | - | - | - | 0.68 | 14.53 |
| 1500 | - | - | - | - | - | - | - | - | 15.88 |
| 1600 | - | - | - | - | - | - | - | 0.67 | 18.33 |
| 1700 | - | - | - | - | - | - | - | 0.66 | 19.27 |
| 1800 | - | - | - | - | - | - | - | 0.33 | 20.27 |
| 1900 | - | - | - | - | - | - | - | 0.33 | 17.73 |
| 2000 | - | - | - | - | - | - | - | 0.33 | 19.33 |
| 2100 | - | - | - | - | - | - | - | 0.33 | 17.67 |
| 2200 | - | - | - | - | - | - | - | - | 17.45 |
| 2300 | - | - | - | - | - | - | - | 0.33 | 18.33 |
| TOTAL | - | - | - | - | - | - | 0.01 | 0.46 | 13.36 |

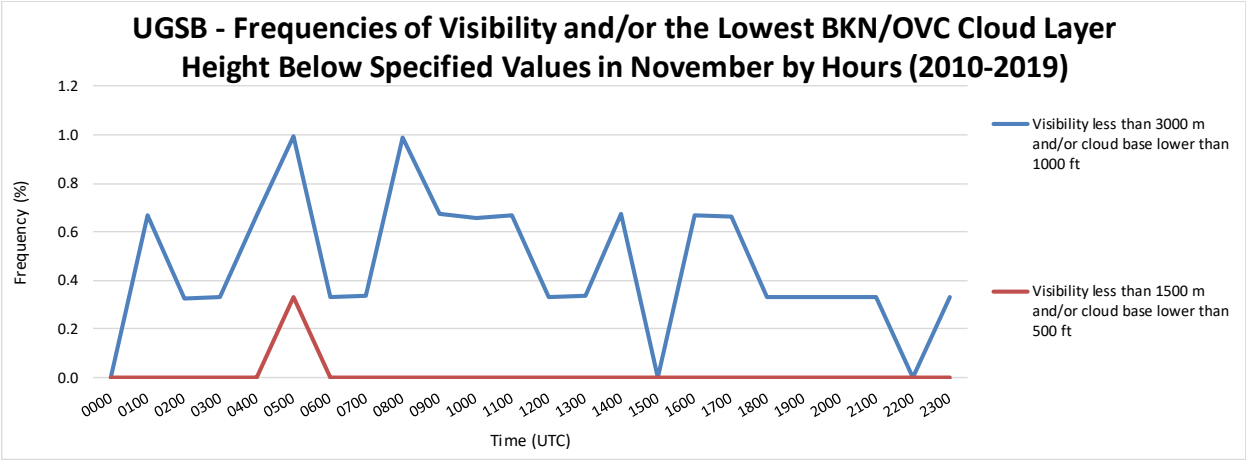
In November, based on Ten-year observation the RVR (Runway Visual Range) minimum values are not observed (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.01% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 0.46% (see Model A).



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL A**
**TABULAR FORM**

AERODROME: UGSB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

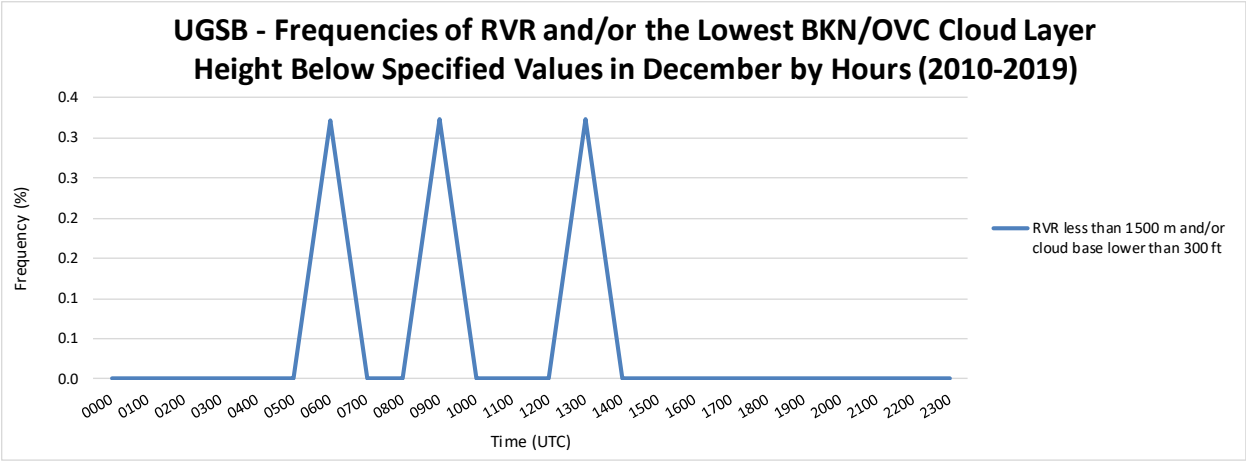
| FREQUENCIES (PERCENT) OF THE OCCURRENCE OF RUNWAY VISUAL RANGE/VISIBILITY (BOTH IN METERS) AND/OR HEIGHT OF THE BASE OF THE LOWEST CLOUD LAYER (IN METERS/FEET) OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | RVR/Hs | | | | | VIS/Hs | | | |
| | <50 | <200 | <350 | <550 | <1500 | <800 | <1500 | <3000 | <8000 |
| | - | - | <30 (100FT) | <60 (200FT) | <90 (300FT) | <60 (200FT) | <150 (500FT) | <300 (1000FT) | <600 (2000FT) |
| 0000 | - | - | - | - | - | - | 0.66 | 1.32 | 19.41 |
| 0100 | - | - | - | - | - | - | - | 0.96 | 19.94 |
| 0200 | - | - | - | - | - | - | 0.33 | 0.98 | 19.28 |
| 0300 | - | - | - | - | - | - | - | 1.29 | 20.71 |
| 0400 | - | - | - | - | - | - | - | 0.32 | 18.65 |
| 0500 | - | - | - | - | - | - | - | 1.29 | 11.97 |
| 0600 | - | - | - | - | 0.32 | 0.32 | 0.64 | 1.61 | 11.90 |
| 0700 | - | - | - | - | - | - | 0.64 | 1.28 | 12.46 |
| 0800 | - | - | - | - | - | 0.65 | 0.65 | 1.94 | 12.58 |
| 0900 | - | - | - | - | 0.32 | - | 0.32 | 0.97 | 10.65 |
| 1000 | - | - | - | - | - | - | 0.32 | 0.96 | 13.14 |
| 1100 | - | - | - | - | - | - | - | 1.29 | 11.97 |
| 1200 | - | - | - | - | - | - | - | 1.66 | 9.93 |
| 1300 | - | - | - | - | 0.32 | - | 0.32 | 1.94 | 10.65 |
| 1400 | - | - | - | - | - | - | - | 0.98 | 19.54 |
| 1500 | - | - | - | - | - | - | 0.32 | 0.65 | 20.78 |
| 1600 | - | - | - | - | - | - | - | 0.96 | 20.83 |
| 1700 | - | - | - | - | - | - | - | 0.65 | 19.35 |
| 1800 | - | - | - | - | - | 0.32 | 0.32 | 0.65 | 18.45 |
| 1900 | - | - | - | - | - | - | 0.32 | 0.64 | 19.61 |
| 2000 | - | - | - | - | - | - | - | 1.92 | 19.23 |
| 2100 | - | - | - | - | - | - | 0.32 | 0.97 | 19.81 |
| 2200 | - | - | - | - | - | - | 0.32 | 0.97 | 17.80 |
| 2300 | - | - | - | - | - | 0.33 | 0.65 | 0.98 | 18.89 |
| TOTAL | - | - | - | - | 0.04 | 0.07 | 0.26 | 1.13 | 16.56 |

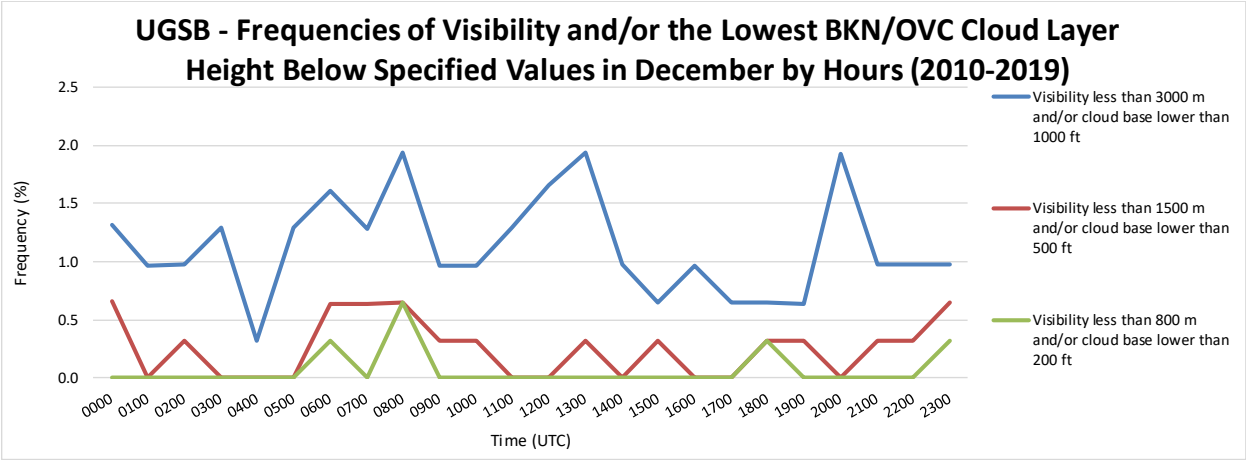
In December, the observed occurrence of the RVR (Runway Visual Range) minimum values of below 1500 meters and/or cloud ceiling below 300 feet, based on Ten-year observation, constitutes 0.04% (see Model A).

According to the rules established in aviation meteorology, the RVR should be defined whenever horizontal visibility is less than 1500 meters.

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 1500 meters and/or cloud ceiling below 500 feet is 0.26% (see Model A).

For Batumi International Airport, based on Ten-year observation, the occurrence frequency of horizontal visibility below 3000 meters and/or cloud ceiling below 1000 feet is 1.13% (see Model A).



**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | 0.71 | 2.48 | 18.09 |
| 0100 | - | - | - | - | 0.66 | 2.30 | 2.95 | 24.59 |
| 0200 | - | - | - | - | 0.36 | 0.36 | 2.49 | 18.86 |
| 0300 | - | - | - | - | 0.36 | 0.71 | 2.14 | 17.79 |
| 0400 | - | - | - | 0.32 | 0.65 | 1.30 | 1.95 | 24.68 |
| 0500 | - | - | - | - | 1.63 | 2.93 | 3.58 | 8.14 |
| 0600 | - | - | - | - | 0.64 | 2.25 | 4.50 | 9.97 |
| 0700 | - | - | 0.65 | 1.29 | 1.62 | 2.27 | 3.88 | 7.44 |
| 0800 | - | 0.66 | 0.66 | 0.66 | 0.98 | 2.62 | 3.28 | 6.23 |
| 0900 | - | - | - | - | 0.65 | 0.97 | 3.25 | 7.79 |
| 1000 | - | - | - | 0.33 | 0.33 | 0.65 | 3.58 | 5.86 |
| 1100 | - | - | 0.32 | 0.32 | 0.96 | 1.28 | 3.19 | 7.67 |
| 1200 | - | - | 0.33 | 0.33 | 1.63 | 2.61 | 4.23 | 9.12 |
| 1300 | - | - | - | 0.33 | 1.31 | 2.61 | 5.88 | 10.78 |
| 1400 | - | - | 0.33 | 0.65 | 0.98 | 2.94 | 3.92 | 15.03 |
| 1500 | - | 0.33 | 0.33 | 0.33 | 0.33 | 1.66 | 2.65 | 25.83 |
| 1600 | - | 0.33 | 0.33 | 0.66 | 0.98 | 1.97 | 2.95 | 25.90 |
| 1700 | - | - | - | - | 0.35 | 1.05 | 1.75 | 17.54 |
| 1800 | - | - | - | 0.36 | 0.36 | 1.08 | 1.80 | 14.39 |
| 1900 | - | - | - | - | 0.33 | 0.98 | 2.29 | 23.53 |
| 2000 | - | - | 0.37 | 0.37 | 0.74 | 1.47 | 1.84 | 15.07 |
| 2100 | - | - | - | 0.37 | 0.37 | 1.12 | 2.25 | 11.99 |
| 2200 | - | 0.36 | 0.36 | 0.36 | 0.72 | 1.44 | 2.88 | 19.06 |
| 2300 | - | - | - | 0.40 | 0.40 | 0.80 | 3.60 | 8.80 |
| Mean | - | 0.07 | 0.15 | 0.29 | 0.72 | 1.59 | 3.06 | 14.76 |

According to the climatological table of January the mean percentage of visibility values below 8000 meters is 14.76%; correspondingly, the mean percentage of 85.24% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 400 meters is 0.07% (See climatological table of January, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 6768 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | 0.40 | 0.40 | 1.59 | 2.39 | 5.58 | 20.32 |
| 0100 | - | - | 0.35 | 0.35 | 0.71 | 1.06 | 2.47 | 24.38 |
| 0200 | - | 0.39 | 0.39 | 0.78 | 0.78 | 3.11 | 6.23 | 19.07 |
| 0300 | - | - | 0.39 | 0.39 | 0.39 | 0.39 | 1.57 | 18.04 |
| 0400 | - | - | - | 0.36 | 0.72 | 1.44 | 3.61 | 22.38 |
| 0500 | - | - | 0.36 | 0.36 | 0.36 | 2.14 | 6.43 | 13.93 |
| 0600 | - | - | - | 0.36 | 0.71 | 2.86 | 5.71 | 10.71 |
| 0700 | - | - | - | - | 0.72 | 2.16 | 3.24 | 9.71 |
| 0800 | - | 0.35 | 0.35 | 0.35 | 0.70 | 1.41 | 3.17 | 5.99 |
| 0900 | - | 0.35 | 0.35 | 0.35 | 0.71 | 1.77 | 3.90 | 6.74 |
| 1000 | - | - | 0.72 | 0.72 | 0.72 | 1.80 | 5.04 | 6.83 |
| 1100 | - | - | - | - | 0.36 | 1.78 | 4.63 | 7.12 |
| 1200 | - | - | - | - | - | 0.71 | 2.47 | 7.42 |
| 1300 | - | 0.35 | 0.35 | 0.35 | 0.71 | 1.42 | 3.19 | 8.51 |
| 1400 | - | 0.36 | 0.36 | 0.72 | 0.72 | 2.17 | 2.90 | 5.43 |
| 1500 | - | - | 1.46 | 1.46 | 1.82 | 1.82 | 3.28 | 22.26 |
| 1600 | - | - | 1.42 | 1.42 | 1.78 | 2.14 | 2.85 | 24.56 |
| 1700 | - | 0.40 | 1.19 | 1.19 | 1.19 | 1.98 | 3.16 | 17.00 |
| 1800 | - | - | 1.22 | 1.22 | 1.63 | 2.86 | 4.49 | 15.92 |
| 1900 | - | 0.38 | 0.76 | 1.14 | 1.14 | 1.89 | 4.55 | 21.97 |
| 2000 | - | 0.43 | 0.86 | 1.29 | 1.29 | 2.58 | 6.44 | 16.31 |
| 2100 | - | - | 0.88 | 0.88 | 0.88 | 2.20 | 5.73 | 13.22 |
| 2200 | - | - | 0.39 | 0.39 | 0.39 | 0.39 | 3.15 | 18.90 |
| 2300 | - | - | 0.44 | 0.44 | 0.89 | 0.89 | 4.00 | 10.22 |
| Mean | - | 0.13 | 0.53 | 0.62 | 0.87 | 1.81 | 4.07 | 14.46 |

According to the climatological table of February the mean percentage of visibility values below 8000 meters is 14.46%; correspondingly, the mean percentage of 85.54% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 400 meters is 0.13% (See climatological table of February, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | 0.36 | 0.73 | 3.65 | 10.58 |
| 0100 | - | - | - | - | - | - | 2.94 | 18.95 |
| 0200 | - | - | - | - | - | - | 1.79 | 7.53 |
| 0300 | - | - | - | - | - | 0.36 | 2.50 | 10.71 |
| 0400 | - | - | - | - | 0.32 | 0.65 | 2.27 | 10.36 |
| 0500 | - | - | - | - | 0.33 | 2.28 | 3.58 | 8.47 |
| 0600 | - | - | 0.32 | 0.32 | 0.65 | 1.62 | 4.87 | 9.42 |
| 0700 | - | - | - | - | 0.32 | 1.29 | 3.24 | 7.77 |
| 0800 | - | - | - | - | - | 1.99 | 3.97 | 9.27 |
| 0900 | - | - | - | - | 0.33 | 2.31 | 3.30 | 10.56 |
| 1000 | - | - | - | - | - | 0.65 | 2.28 | 8.14 |
| 1100 | - | - | - | - | - | 0.66 | 2.30 | 6.89 |
| 1200 | - | - | - | - | - | 1.30 | 2.93 | 8.14 |
| 1300 | - | - | - | - | - | 0.66 | 2.62 | 9.18 |
| 1400 | - | - | - | - | - | 0.33 | 1.64 | 8.55 |
| 1500 | - | - | - | - | - | 0.33 | 3.67 | 9.33 |
| 1600 | - | - | - | 0.33 | 0.33 | 0.33 | 1.32 | 15.46 |
| 1700 | - | - | - | - | 0.36 | 0.36 | 0.73 | 8.00 |
| 1800 | - | - | - | - | - | 0.37 | 2.23 | 8.92 |
| 1900 | - | - | - | 0.34 | 0.34 | 0.34 | 1.35 | 17.17 |
| 2000 | - | 0.38 | 0.38 | 0.38 | 0.38 | 0.76 | 2.67 | 10.31 |
| 2100 | - | 0.40 | 0.40 | 0.40 | 0.40 | 1.20 | 3.60 | 10.80 |
| 2200 | - | - | 0.36 | 0.36 | 0.72 | 0.72 | 1.79 | 17.56 |
| 2300 | - | - | 0.41 | 0.41 | 0.83 | 0.83 | 2.49 | 9.54 |
| Mean | - | 0.03 | 0.08 | 0.11 | 0.24 | 0.84 | 2.66 | 10.48 |

According to the climatological table of March the mean percentage of visibility values below 8000 meters is 10.48%; correspondingly, the mean percentage of 89.52% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 400 meters is 0.03% (See climatological table of March, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | 1.12 | 1.50 | 2.62 | 2.62 | 4.87 | 12.36 |
| 0100 | - | 0.33 | 0.66 | 1.32 | 2.31 | 3.30 | 4.62 | 21.12 |
| 0200 | - | 0.74 | 1.86 | 1.86 | 2.60 | 2.97 | 3.72 | 12.27 |
| 0300 | 0.36 | 1.81 | 2.17 | 2.54 | 2.90 | 5.43 | 7.97 | 15.94 |
| 0400 | - | 0.67 | 1.67 | 1.67 | 2.00 | 2.67 | 5.33 | 12.67 |
| 0500 | 0.33 | 0.33 | 0.33 | 0.33 | 0.66 | 0.99 | 2.65 | 7.62 |
| 0600 | - | - | - | 0.33 | 0.67 | 2.33 | 5.00 | 8.33 |
| 0700 | - | 0.33 | 0.67 | 0.67 | 1.67 | 4.35 | 6.02 | 8.70 |
| 0800 | - | 0.33 | 0.33 | 0.33 | 0.33 | 3.00 | 4.33 | 7.33 |
| 0900 | - | - | - | - | - | 1.00 | 4.00 | 5.33 |
| 1000 | - | - | - | 0.33 | 0.33 | 1.66 | 2.99 | 4.98 |
| 1100 | - | - | 0.33 | 0.33 | 0.33 | 2.34 | 3.34 | 6.02 |
| 1200 | - | - | - | - | 0.34 | 1.03 | 3.42 | 6.16 |
| 1300 | - | - | 0.34 | 0.34 | 0.67 | 2.35 | 3.02 | 6.71 |
| 1400 | - | - | 0.67 | 0.67 | 1.35 | 2.36 | 4.38 | 8.08 |
| 1500 | - | 0.33 | 0.33 | 0.33 | 1.00 | 1.33 | 3.33 | 7.33 |
| 1600 | - | 0.33 | 0.67 | 1.00 | 1.67 | 2.34 | 3.34 | 14.38 |
| 1700 | - | 0.73 | 0.73 | 1.09 | 1.09 | 1.82 | 2.91 | 9.45 |
| 1800 | - | 0.37 | 1.11 | 1.48 | 1.85 | 1.85 | 2.96 | 8.89 |
| 1900 | - | 1.01 | 1.35 | 1.69 | 1.69 | 1.69 | 2.03 | 17.91 |
| 2000 | - | 1.17 | 1.95 | 1.95 | 1.95 | 2.73 | 4.30 | 10.16 |
| 2100 | - | 0.40 | 1.59 | 1.59 | 2.39 | 2.39 | 4.38 | 12.35 |
| 2200 | - | - | 1.84 | 2.21 | 2.57 | 3.31 | 5.51 | 20.59 |
| 2300 | - | 0.82 | 2.88 | 3.29 | 3.29 | 3.29 | 4.53 | 9.47 |
| Mean | 0.03 | 0.41 | 0.94 | 1.12 | 1.51 | 2.47 | 4.12 | 10.59 |

According to the climatological table of April the mean percentage of visibility values below 8000 meters is 10.59%; correspondingly, the mean percentage of 89.41% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 200 meters is 0.03% (See climatological table of April, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | - | 1.45 | 7.27 |
| 0100 | - | - | 0.32 | 0.32 | 0.32 | 1.62 | 3.25 | 18.83 |
| 0200 | - | - | - | - | - | 0.71 | 4.29 | 10.36 |
| 0300 | - | - | - | - | - | 1.77 | 4.96 | 9.57 |
| 0400 | - | - | - | - | - | 0.97 | 2.92 | 6.82 |
| 0500 | - | - | - | - | - | 0.32 | 2.58 | 6.77 |
| 0600 | - | - | - | - | - | 0.96 | 2.89 | 6.43 |
| 0700 | - | - | - | - | - | 0.65 | 2.27 | 7.77 |
| 0800 | - | - | - | - | - | 0.64 | 2.24 | 4.81 |
| 0900 | - | - | - | - | - | 0.98 | 1.31 | 3.59 |
| 1000 | - | - | - | - | - | 0.97 | 1.95 | 2.92 |
| 1100 | - | - | - | - | - | 1.62 | 2.27 | 3.25 |
| 1200 | - | - | - | - | - | 1.29 | 2.59 | 3.24 |
| 1300 | - | - | - | - | - | 1.62 | 1.95 | 3.25 |
| 1400 | - | - | - | - | 0.33 | 0.98 | 1.63 | 3.59 |
| 1500 | - | - | - | - | - | 0.33 | 1.66 | 2.98 |
| 1600 | - | - | - | - | - | - | 0.97 | 3.88 |
| 1700 | - | - | - | - | - | - | 1.06 | 6.01 |
| 1800 | - | - | - | - | - | - | 0.71 | 6.05 |
| 1900 | - | - | - | - | - | 0.33 | 0.33 | 13.53 |
| 2000 | - | - | - | - | - | 0.36 | 1.09 | 6.55 |
| 2100 | - | - | - | - | - | - | 2.17 | 8.70 |
| 2200 | - | - | - | - | - | - | 1.97 | 17.76 |
| 2300 | - | - | - | - | - | - | 1.81 | 7.58 |
| Mean | - | - | 0.01 | 0.01 | 0.03 | 0.67 | 2.10 | 7.15 |

According to the climatological table of May the mean percentage of visibility values below 8000 meters is 7.15%; correspondingly, the mean percentage of 92.85% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 600 meters is 0.01% (See climatological table of May, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | - | - | 4.48 |
| 0100 | - | - | - | - | - | - | 0.68 | 12.29 |
| 0200 | - | - | - | - | - | - | 2.21 | 5.15 |
| 0300 | - | - | - | - | - | - | 2.06 | 3.44 |
| 0400 | - | - | - | - | - | - | 1.34 | 3.02 |
| 0500 | - | - | - | - | - | 0.34 | 1.35 | 4.04 |
| 0600 | - | - | - | - | - | 0.33 | 2.66 | 4.32 |
| 0700 | - | - | - | - | - | 0.66 | 1.66 | 3.31 |
| 0800 | - | - | - | - | - | 0.67 | 2.00 | 4.00 |
| 0900 | - | - | - | - | - | 1.34 | 2.01 | 3.02 |
| 1000 | - | - | - | - | - | - | 1.34 | 2.35 |
| 1100 | - | - | - | - | - | 0.34 | 1.34 | 1.68 |
| 1200 | - | - | - | - | - | 0.34 | 1.68 | 2.36 |
| 1300 | - | - | - | - | - | 1.00 | 1.67 | 2.33 |
| 1400 | - | - | - | - | - | - | 0.34 | 2.01 |
| 1500 | - | - | - | - | - | 1.02 | 2.04 | 2.72 |
| 1600 | - | - | - | - | 0.33 | 0.67 | 1.33 | 4.67 |
| 1700 | - | - | - | - | - | - | 0.73 | 5.13 |
| 1800 | - | - | - | - | - | 0.37 | 0.74 | 4.44 |
| 1900 | - | - | - | - | - | - | - | 12.04 |
| 2000 | - | - | - | - | - | - | 0.36 | 4.74 |
| 2100 | - | - | - | - | - | 0.36 | 0.73 | 3.64 |
| 2200 | - | - | - | - | - | - | - | 12.67 |
| 2300 | - | - | - | - | - | - | 0.37 | 4.41 |
| Mean | - | - | - | - | 0.01 | 0.31 | 1.19 | 4.68 |

According to the climatological table of June the mean percentage of visibility values below 8000 meters is 4.68%; correspondingly, the mean percentage of 95.32% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.01% (See climatological table of June, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | - | 1.08 | 5.76 |
| 0100 | - | - | - | - | - | - | 1.31 | 12.42 |
| 0200 | - | - | - | - | - | 1.04 | 2.77 | 7.27 |
| 0300 | - | - | - | - | - | 1.01 | 2.36 | 4.39 |
| 0400 | - | - | - | - | - | 0.98 | 1.63 | 5.21 |
| 0500 | - | - | - | - | - | 0.33 | 2.61 | 3.59 |
| 0600 | - | - | - | - | - | 0.98 | 2.61 | 4.23 |
| 0700 | - | - | - | - | - | 1.29 | 1.93 | 3.86 |
| 0800 | - | - | - | - | - | 0.65 | 1.30 | 2.27 |
| 0900 | - | - | - | - | - | - | 1.62 | 3.57 |
| 1000 | - | - | - | - | - | 0.98 | 2.93 | 4.56 |
| 1100 | - | - | - | - | - | - | 1.95 | 2.93 |
| 1200 | - | - | - | - | - | 0.33 | 1.31 | 1.97 |
| 1300 | - | - | - | - | - | 0.97 | 1.62 | 2.92 |
| 1400 | - | - | - | - | - | 0.99 | 1.97 | 2.63 |
| 1500 | - | - | - | - | - | 0.66 | 1.97 | 2.96 |
| 1600 | - | - | - | - | - | 0.66 | 1.97 | 2.62 |
| 1700 | - | - | - | - | - | 0.34 | 2.07 | 8.97 |
| 1800 | - | - | - | - | 0.34 | 0.68 | 2.05 | 8.53 |
| 1900 | - | - | - | - | - | - | 1.31 | 11.44 |
| 2000 | - | - | - | - | - | - | 0.35 | 5.24 |
| 2100 | - | - | - | - | - | - | 0.71 | 6.01 |
| 2200 | - | - | - | - | - | 0.33 | 1.00 | 13.33 |
| 2300 | - | - | - | - | - | 0.35 | 0.71 | 7.07 |
| Mean | - | - | - | - | 0.01 | 0.52 | 1.71 | 5.57 |

According to the climatological table of July the mean percentage of visibility values below 8000 meters is 5.57%; correspondingly, the mean percentage of 94.43% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.01% (See climatological table of July, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | 0.36 | 0.36 | 5.73 |
| 0100 | - | - | - | - | - | - | - | 9.25 |
| 0200 | - | - | - | - | - | 0.35 | 0.71 | 5.67 |
| 0300 | - | - | - | - | - | 0.67 | 0.67 | 3.33 |
| 0400 | - | - | - | - | - | - | 0.66 | 2.31 |
| 0500 | - | - | - | - | - | 0.33 | 0.98 | 1.95 |
| 0600 | - | - | - | - | - | 0.67 | 2.35 | 3.69 |
| 0700 | - | - | - | - | - | - | 0.98 | 1.64 |
| 0800 | - | - | - | - | - | 0.33 | 1.31 | 1.96 |
| 0900 | - | - | - | - | - | - | 1.00 | 3.65 |
| 1000 | - | - | - | - | - | - | 0.33 | 1.98 |
| 1100 | - | - | - | - | 0.33 | 0.33 | 0.66 | 1.64 |
| 1200 | - | - | - | - | 0.33 | 0.66 | 2.62 | 3.28 |
| 1300 | - | - | - | - | - | - | 1.30 | 2.93 |
| 1400 | - | - | - | - | - | 0.33 | 0.98 | 1.96 |
| 1500 | - | - | - | - | - | 0.33 | 1.97 | 2.95 |
| 1600 | - | - | - | - | - | 0.33 | 1.65 | 7.26 |
| 1700 | - | - | - | - | - | - | 1.02 | 10.54 |
| 1800 | - | - | - | - | - | - | 1.05 | 8.71 |
| 1900 | - | - | - | - | - | - | 0.34 | 11.15 |
| 2000 | - | - | - | - | - | 0.70 | 1.05 | 6.99 |
| 2100 | - | - | - | - | - | 0.36 | 1.08 | 6.83 |
| 2200 | - | - | - | - | - | - | 1.02 | 10.85 |
| 2300 | - | - | - | - | - | - | 1.81 | 5.78 |
| Mean | - | - | - | - | 0.03 | 0.24 | 1.08 | 5.09 |

According to the climatological table of August the mean percentage of visibility values below 8000 meters is 5.09%; correspondingly, the mean percentage of 94.91% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.03% (See climatological table of August, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | 0.36 | 1.82 | 8.36 |
| 0100 | - | - | - | - | - | 0.34 | 0.67 | 11.78 |
| 0200 | - | - | - | - | - | - | 0.73 | 6.93 |
| 0300 | - | - | - | - | - | - | 1.77 | 3.90 |
| 0400 | - | - | - | - | - | 0.67 | 2.69 | 4.38 |
| 0500 | - | - | - | - | - | 0.66 | 2.66 | 5.32 |
| 0600 | - | - | - | - | - | 0.34 | 2.01 | 5.03 |
| 0700 | - | - | - | - | 0.34 | 0.34 | 1.69 | 4.39 |
| 0800 | - | - | - | - | 0.34 | 0.34 | 1.34 | 3.69 |
| 0900 | - | - | - | - | - | 0.34 | 1.68 | 3.37 |
| 1000 | - | - | - | - | - | - | 0.34 | 2.03 |
| 1100 | - | - | - | - | - | - | - | 2.03 |
| 1200 | - | - | - | - | - | 0.34 | 1.01 | 2.68 |
| 1300 | - | - | - | - | - | - | 0.67 | 3.02 |
| 1400 | - | - | - | - | - | 0.34 | 1.69 | 3.73 |
| 1500 | - | - | - | - | - | - | 2.37 | 4.75 |
| 1600 | - | - | - | - | - | 0.67 | 1.68 | 12.75 |
| 1700 | - | - | - | - | - | - | 0.34 | 11.86 |
| 1800 | - | - | - | - | - | - | 0.72 | 5.04 |
| 1900 | - | - | - | - | - | 0.33 | 1.00 | 12.71 |
| 2000 | - | - | - | - | - | - | 0.35 | 7.42 |
| 2100 | - | - | - | - | - | 0.72 | 1.09 | 5.80 |
| 2200 | - | - | - | - | - | - | 0.34 | 10.81 |
| 2300 | - | - | - | - | - | - | 0.36 | 7.83 |
| Mean | - | - | - | - | 0.03 | 0.24 | 1.21 | 6.23 |

According to the climatological table of September the mean percentage of visibility values below 8000 meters is 6.23%; correspondingly, the mean percentage of 93.77% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.03% (See climatological table of September, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | 0.34 | 1.37 | 12.67 |
| 0100 | - | - | - | - | - | 0.32 | 1.28 | 14.70 |
| 0200 | - | - | - | - | - | - | 0.65 | 13.27 |
| 0300 | - | - | - | - | - | - | 1.94 | 11.33 |
| 0400 | - | - | - | - | - | 0.64 | 1.92 | 5.77 |
| 0500 | - | - | - | - | - | 0.32 | 3.19 | 5.11 |
| 0600 | - | - | - | - | - | - | 0.64 | 4.50 |
| 0700 | - | - | - | - | - | 0.65 | 1.29 | 2.91 |
| 0800 | - | - | - | - | - | 0.33 | 0.66 | 3.29 |
| 0900 | - | - | - | - | - | - | 0.65 | 3.92 |
| 1000 | - | - | - | - | - | 0.32 | 1.95 | 4.55 |
| 1100 | - | - | - | - | - | 0.32 | 1.30 | 4.55 |
| 1200 | - | - | - | - | 0.32 | 0.32 | 0.97 | 3.25 |
| 1300 | - | - | - | - | - | 0.32 | 0.97 | 3.55 |
| 1400 | - | - | - | - | - | 0.32 | 0.96 | 3.54 |
| 1500 | - | - | - | - | - | - | 0.96 | 13.14 |
| 1600 | - | - | - | - | 0.32 | 0.32 | 0.64 | 13.42 |
| 1700 | - | - | - | - | - | - | 0.97 | 12.62 |
| 1800 | - | - | - | - | - | - | 0.99 | 10.53 |
| 1900 | - | - | - | - | - | 0.32 | 0.97 | 12.62 |
| 2000 | - | - | - | - | - | - | 1.94 | 13.55 |
| 2100 | - | - | - | - | - | 0.33 | 0.99 | 10.86 |
| 2200 | - | - | - | - | - | - | 0.97 | 14.19 |
| 2300 | - | - | - | - | - | - | 1.90 | 15.24 |
| Mean | - | - | - | - | 0.03 | 0.22 | 1.25 | 8.88 |

According to the climatological table of October the mean percentage of visibility values below 8000 meters is 8.88%; correspondingly, the mean percentage of 91.12% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.03% (See climatological table of October, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | - | 0.34 | 13.27 |
| 0100 | - | - | - | - | - | 0.34 | 1.68 | 14.09 |
| 0200 | - | - | - | - | - | - | 0.66 | 12.50 |
| 0300 | - | - | - | - | - | - | 1.32 | 13.25 |
| 0400 | - | - | - | - | - | - | 1.00 | 8.67 |
| 0500 | - | - | - | - | 0.33 | 0.66 | 1.99 | 4.97 |
| 0600 | - | - | - | - | - | 0.33 | 2.01 | 3.68 |
| 0700 | - | - | - | - | - | 0.34 | 1.35 | 3.70 |
| 0800 | - | - | - | - | - | 0.66 | 2.31 | 4.62 |
| 0900 | - | - | - | - | - | 0.68 | 1.35 | 4.05 |
| 1000 | - | - | - | - | - | 0.66 | 0.66 | 2.30 |
| 1100 | - | - | - | - | - | 0.67 | 3.02 | 5.70 |
| 1200 | - | - | - | - | - | 0.33 | 1.34 | 4.01 |
| 1300 | - | - | - | - | - | 0.34 | 1.34 | 6.38 |
| 1400 | - | - | - | - | - | 0.34 | 1.01 | 10.47 |
| 1500 | - | - | - | - | - | - | 1.69 | 13.51 |
| 1600 | - | - | - | - | - | - | 0.33 | 14.00 |
| 1700 | - | - | - | - | - | - | 0.66 | 14.95 |
| 1800 | - | - | - | - | - | - | 1.66 | 14.95 |
| 1900 | - | - | - | - | - | 0.33 | 0.67 | 14.72 |
| 2000 | - | - | - | - | - | 0.33 | 1.00 | 16.00 |
| 2100 | - | - | - | - | - | 0.33 | 1.33 | 14.00 |
| 2200 | - | - | - | - | - | - | 1.34 | 14.77 |
| 2300 | - | - | - | - | - | 0.33 | 0.67 | 14.00 |
| Mean | - | - | - | - | 0.01 | 0.28 | 1.28 | 10.11 |

According to the climatological table of November the mean percentage of visibility values below 8000 meters is 10.11%; correspondingly, the mean percentage of 89.89% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.01% (See climatological table of November, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGSB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

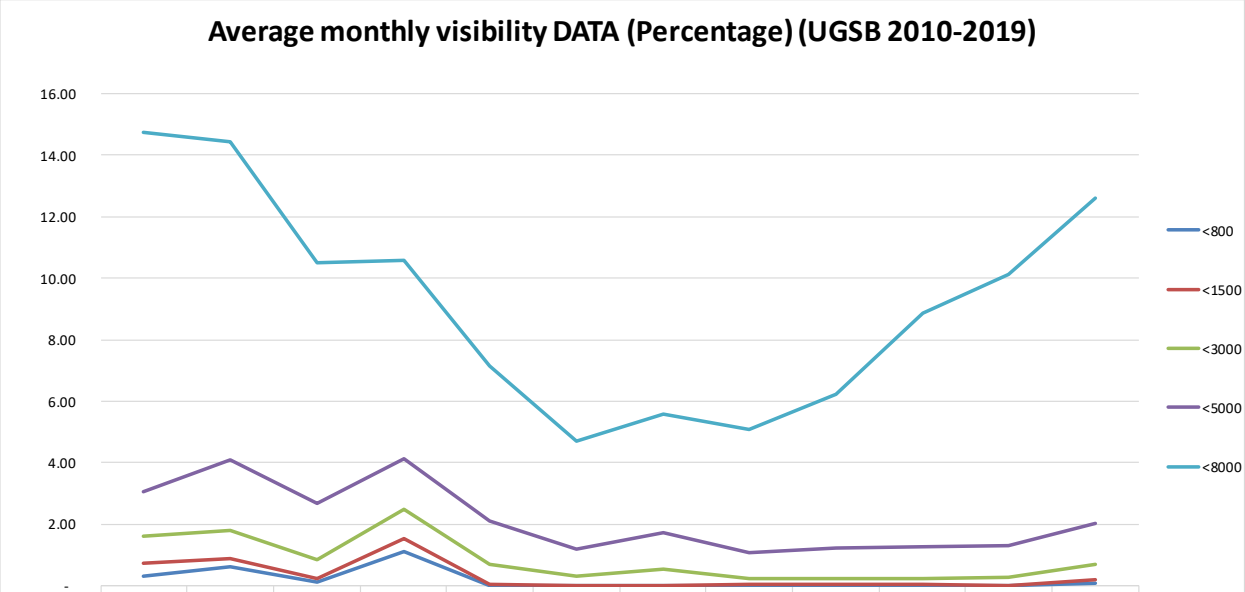
TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0000 | - | - | - | - | - | 0.66 | 1.32 | 13.49 |
| 0100 | - | - | - | - | - | 0.64 | 1.61 | 14.47 |
| 0200 | - | - | - | - | - | - | 0.65 | 15.36 |
| 0300 | - | - | - | - | - | 1.29 | 2.91 | 16.50 |
| 0400 | - | - | - | - | - | - | 1.61 | 15.16 |
| 0500 | - | - | - | - | - | 0.65 | 1.94 | 7.12 |
| 0600 | - | - | - | 0.32 | 0.64 | 1.61 | 4.50 | 8.36 |
| 0700 | - | - | - | - | 0.64 | 1.28 | 2.88 | 8.63 |
| 0800 | - | - | 0.32 | 0.65 | 0.65 | 1.61 | 3.55 | 9.35 |
| 0900 | - | - | - | - | 0.32 | 0.32 | 2.26 | 7.10 |
| 1000 | - | - | - | - | - | 0.64 | 2.24 | 8.65 |
| 1100 | - | - | - | - | - | 0.65 | 2.27 | 7.77 |
| 1200 | - | - | - | - | - | 0.66 | 2.65 | 5.96 |
| 1300 | - | - | - | - | 0.32 | 0.97 | 2.58 | 7.42 |
| 1400 | - | - | - | - | - | 0.33 | 1.30 | 14.98 |
| 1500 | - | - | - | - | 0.32 | 0.32 | 1.95 | 16.88 |
| 1600 | - | - | - | - | - | 0.64 | 1.60 | 19.55 |
| 1700 | - | - | - | - | - | 0.32 | 1.61 | 16.13 |
| 1800 | - | - | - | 0.32 | 0.32 | 0.65 | 1.29 | 14.89 |
| 1900 | - | - | - | - | - | 0.32 | 0.64 | 14.15 |
| 2000 | - | - | - | - | - | 0.96 | 2.56 | 16.03 |
| 2100 | - | - | - | - | 0.32 | 0.32 | 1.62 | 15.91 |
| 2200 | - | - | - | - | 0.32 | 0.65 | 0.97 | 13.59 |
| 2300 | - | - | - | 0.33 | 0.65 | 0.98 | 1.95 | 14.98 |
| Mean | - | - | 0.01 | 0.07 | 0.19 | 0.69 | 2.02 | 12.60 |

According to the climatological table of December the mean percentage of visibility values below 8000 meters is 12.60%; correspondingly, the mean percentage of 87.40% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 600 meters is 0.01% (See climatological table of December, Model B).




| | January Mean % | Feburuary Mean % | March Mean % | April Mean % | May Mean % | June Mean % | July Mean % | August Mean % | September Mean % | October Mean % | November Mean % | December Mean % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <800 | 0.29 | 0.62 | 0.11 | 1.12 | 0.01 | - | - | - | - | - | - | 0.07 |
| <1500 | 0.72 | 0.87 | 0.24 | 1.51 | 0.03 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 | 0.01 | 0.19 |
| <3000 | 1.59 | 1.81 | 0.84 | 2.47 | 0.67 | 0.31 | 0.52 | 0.24 | 0.24 | 0.22 | 0.28 | 0.69 |
| <5000 | 3.06 | 4.07 | 2.66 | 4.12 | 2.10 | 1.19 | 1.71 | 1.08 | 1.21 | 1.25 | 1.28 | 2.02 |
| <8000 | 14.76 | 14.46 | 10.48 | 10.59 | 7.15 | 4.68 | 5.57 | 5.09 | 6.23 | 8.88 | 10.11 | 12.60 |

## AERONAUTICAL CLIMATOLOGY

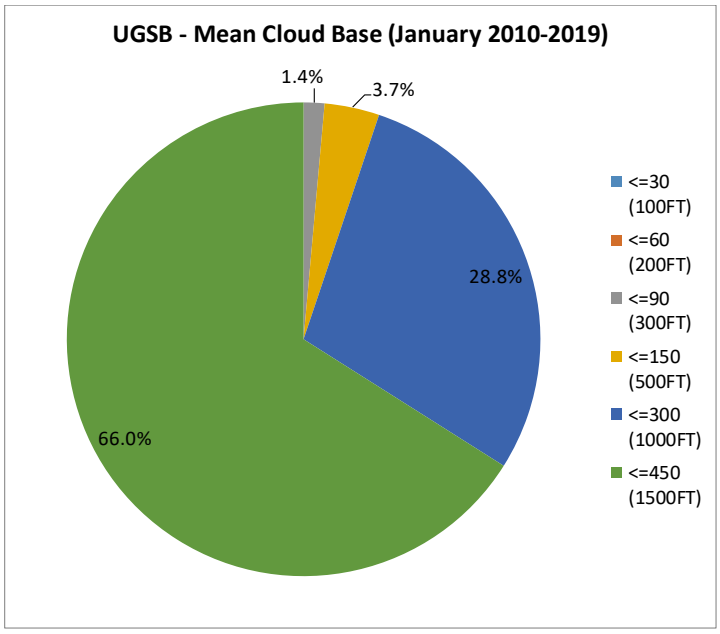
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGSB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | 0.35 | 1.06 | 2.48 | 7.80 |
| 0100 | - | - | - | 0.33 | 1.31 | 6.23 |
| 0200 | - | - | - | - | 2.49 | 6.76 |
| 0300 | - | - | - | - | 2.49 | 6.76 |
| 0400 | - | - | - | 0.32 | 1.95 | 6.49 |
| 0500 | - | - | 0.33 | 0.33 | 2.28 | 7.49 |
| 0600 | - | - | 0.32 | 0.32 | 1.61 | 6.75 |
| 0700 | - | - | - | 0.65 | 3.24 | 6.80 |
| 0800 | - | - | - | 0.33 | 1.64 | 6.23 |
| 0900 | - | - | - | - | 2.60 | 7.47 |
| 1000 | - | - | - | - | 1.95 | 6.84 |
| 1100 | - | - | - | - | 1.60 | 6.71 |
| 1200 | - | - | 0.33 | 0.33 | 2.61 | 8.79 |
| 1300 | - | - | 0.33 | 0.65 | 4.58 | 10.46 |
| 1400 | - | - | - | 0.98 | 4.58 | 9.48 |
| 1500 | - | - | - | - | 2.32 | 6.95 |
| 1600 | - | - | 0.33 | 0.66 | 2.30 | 6.23 |
| 1700 | - | - | - | 0.35 | 0.70 | 4.91 |
| 1800 | - | - | - | - | 1.08 | 2.88 |
| 1900 | - | - | - | - | 1.31 | 5.56 |
| 2000 | - | - | - | 0.37 | 2.57 | 6.25 |
| 2100 | - | - | - | 0.75 | 3.37 | 8.24 |
| 2200 | - | - | 0.36 | 0.72 | 3.60 | 8.27 |
| 2300 | - | - | - | 0.40 | 1.60 | 5.20 |
| Mean | - | - | 0.10 | 0.36 | 2.34 | 6.90 |




In January, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 66.0%
2. >500FT and <= 1000FT – 28.8%
3. >300FT and <= 500FT – 3.7 %
4. >200FT and <= 300FT – 1.4%
5. >100FT and <= 200FT – not observed
6. <=100FT – not observed

In January, the mean percentage of cloud ceiling recorded above 1500 feet is 93.10% of the total amount of occurrences (See climatological table of January, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.10 percent of minimum cloud height of 300 feet and below (cloud amount BKN and OVC) (see climatological table of January, Model C).

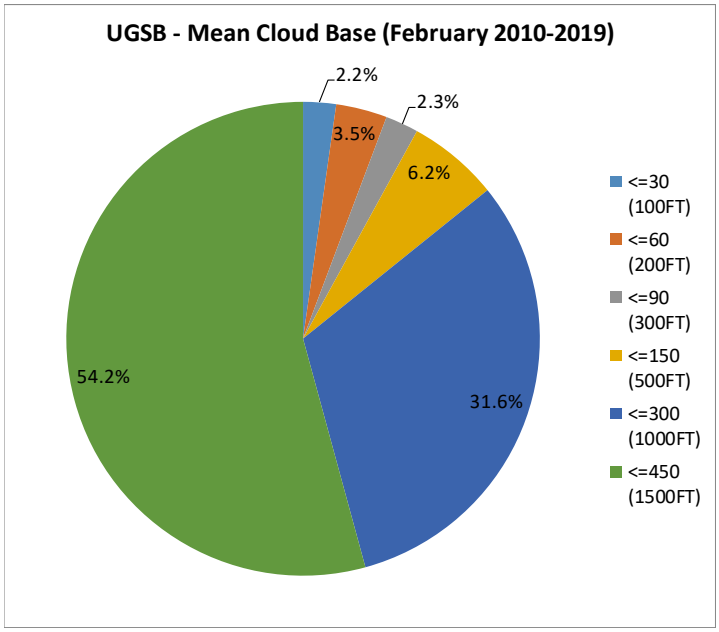
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGSB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 6768 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | 0.40 | 0.79 | 1.58 | 2.37 | 6.72 | 11.86 |
| 0100 | 0.35 | 0.70 | 1.76 | 1.76 | 6.34 | 13.38 |
| 0200 | 0.39 | 0.78 | 1.17 | 2.33 | 7.39 | 15.18 |
| 0300 | 0.39 | 0.39 | 0.78 | 1.18 | 6.27 | 14.90 |
| 0400 | 0.36 | 0.36 | 0.72 | 1.44 | 5.05 | 14.44 |
| 0500 | 0.36 | 0.36 | 0.36 | 1.07 | 5.69 | 10.68 |
| 0600 | - | 0.36 | 0.36 | 1.07 | 5.00 | 10.36 |
| 0700 | - | - | 0.36 | 1.08 | 4.68 | 9.71 |
| 0800 | - | - | - | 1.06 | 3.53 | 7.77 |
| 0900 | - | - | - | 0.71 | 2.84 | 7.80 |
| 1000 | - | 0.36 | 0.36 | 1.08 | 3.60 | 8.27 |
| 1100 | - | - | - | 0.71 | 3.91 | 9.25 |
| 1200 | - | - | - | 0.35 | 2.46 | 7.75 |
| 1300 | - | 0.71 | 0.71 | 1.42 | 3.90 | 9.57 |
| 1400 | - | 0.72 | 0.72 | 1.09 | 3.62 | 8.70 |
| 1500 | 0.73 | 1.46 | 1.46 | 2.19 | 4.74 | 9.49 |
| 1600 | 0.36 | 1.42 | 1.42 | 2.14 | 6.05 | 9.96 |
| 1700 | 0.40 | 0.79 | 1.19 | 1.98 | 3.57 | 8.73 |
| 1800 | - | 1.22 | 1.63 | 2.04 | 4.08 | 8.57 |
| 1900 | 0.38 | 0.76 | 1.14 | 1.89 | 4.92 | 9.47 |
| 2000 | 0.43 | 1.29 | 1.29 | 2.15 | 3.86 | 7.30 |
| 2100 | 0.44 | 0.44 | 0.88 | 0.88 | 4.41 | 11.01 |
| 2200 | 0.39 | 0.39 | 0.39 | 0.78 | 2.75 | 7.45 |
| 2300 | - | 0.44 | 0.88 | 1.33 | 4.42 | 8.41 |
| Mean | 0.22 | 0.57 | 0.80 | 1.42 | 4.58 | 10.00 |




In February, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 54.2%
2. >500FT and <= 1000FT – 31.6%
3. >300FT and <= 500FT – 6.2%
4. >200FT and <= 300FT – 2.3%
5. >100FT and <= 200FT – 3.5%
6. <=100FT – 2.2%

In February, the mean percentage of cloud ceiling recorded above 1500 feet is 90.00% of the total amount of occurrences (See climatological table of February, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.22 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of February, Model C).

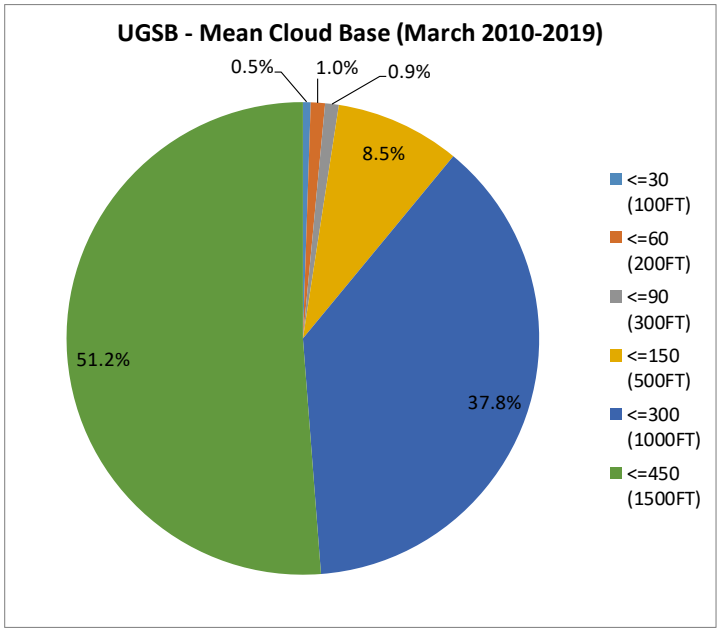
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGSB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | 1.09 | 5.84 | 13.14 |
| 0100 | - | - | 0.33 | 1.96 | 5.88 | 11.44 |
| 0200 | - | 0.36 | 0.72 | 1.43 | 6.45 | 13.26 |
| 0300 | - | - | 0.36 | 0.71 | 3.93 | 11.07 |
| 0400 | - | - | - | 0.65 | 4.53 | 10.36 |
| 0500 | - | - | - | 0.65 | 3.91 | 7.82 |
| 0600 | - | 0.32 | 0.32 | 0.32 | 4.22 | 12.34 |
| 0700 | - | - | - | 0.65 | 4.85 | 10.68 |
| 0800 | - | - | 0.33 | 1.32 | 5.30 | 9.93 |
| 0900 | - | - | - | 1.65 | 5.28 | 9.24 |
| 1000 | - | - | - | 1.30 | 3.91 | 8.47 |
| 1100 | - | - | - | 0.66 | 3.61 | 7.54 |
| 1200 | - | - | 0.33 | 0.65 | 5.54 | 9.12 |
| 1300 | - | 0.66 | 0.66 | 0.98 | 5.57 | 11.48 |
| 1400 | - | 0.33 | 0.33 | 0.99 | 4.28 | 7.89 |
| 1500 | - | - | 0.33 | 1.00 | 4.67 | 7.33 |
| 1600 | - | - | - | 1.32 | 3.62 | 6.91 |
| 1700 | - | - | - | 0.73 | 4.00 | 9.82 |
| 1800 | - | - | - | 0.37 | 3.72 | 7.81 |
| 1900 | - | - | - | 0.67 | 4.38 | 8.42 |
| 2000 | 0.38 | 0.38 | 0.38 | 1.15 | 4.96 | 9.16 |
| 2100 | 0.80 | 1.20 | 1.60 | 2.40 | 6.00 | 13.20 |
| 2200 | - | 0.36 | 0.36 | 1.79 | 5.02 | 10.39 |
| 2300 | - | 0.41 | 0.41 | 1.24 | 3.73 | 8.71 |
| Mean | 0.05 | 0.17 | 0.27 | 1.07 | 4.72 | 9.81 |




In March, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 51.2%
2. >500FT and <= 1000FT – 37.8%
3. >300FT and <= 500FT – 8.5%
4. >200FT and <= 300FT – 0.9%
5. >100FT and <= 200FT – 1.0%
6. <=100FT – 0.5%

In March, the mean percentage of cloud ceiling recorded above 1500 feet is 90.19% of the total amount of occurrences (See climatological table of March, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.05 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of March, Model C).

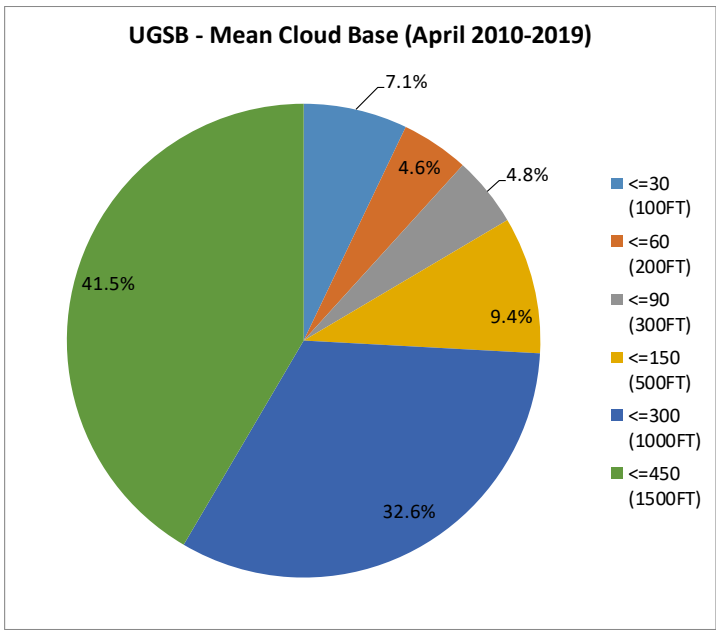
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGSB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | 1.12 | 2.25 | 2.25 | 3.00 | 7.49 | 12.36 |
| 0100 | 0.99 | 1.32 | 1.98 | 2.97 | 6.93 | 10.89 |
| 0200 | 1.12 | 2.23 | 2.60 | 3.35 | 5.95 | 11.52 |
| 0300 | 1.81 | 1.81 | 2.54 | 3.99 | 7.61 | 13.04 |
| 0400 | 0.67 | 1.33 | 2.33 | 3.33 | 8.67 | 12.67 |
| 0500 | 0.33 | 0.66 | 0.66 | 1.99 | 6.29 | 8.94 |
| 0600 | - | 0.33 | 0.67 | 2.33 | 4.67 | 9.33 |
| 0700 | - | 0.33 | 1.67 | 2.68 | 4.01 | 7.02 |
| 0800 | - | - | 0.67 | 2.00 | 4.33 | 7.67 |
| 0900 | - | - | 0.33 | 2.00 | 4.00 | 7.67 |
| 1000 | 0.33 | 0.66 | 1.33 | 1.66 | 5.32 | 8.31 |
| 1100 | 0.33 | 1.00 | 1.67 | 3.01 | 5.02 | 7.02 |
| 1200 | - | 0.34 | 0.68 | 1.71 | 4.79 | 9.25 |
| 1300 | 0.34 | 0.67 | 1.34 | 2.35 | 5.37 | 11.41 |
| 1400 | 0.34 | 0.34 | 0.67 | 1.68 | 6.06 | 12.12 |
| 1500 | 0.33 | 0.67 | 1.33 | 2.67 | 6.33 | 8.67 |
| 1600 | 0.67 | 1.34 | 1.34 | 2.34 | 5.69 | 10.03 |
| 1700 | 0.73 | 1.45 | 1.45 | 1.82 | 5.82 | 8.73 |
| 1800 | 1.48 | 1.85 | 1.85 | 2.22 | 6.67 | 11.85 |
| 1900 | 1.35 | 1.35 | 1.69 | 2.03 | 5.41 | 10.81 |
| 2000 | 1.17 | 1.95 | 2.73 | 2.73 | 5.47 | 10.16 |
| 2100 | 1.59 | 1.99 | 2.39 | 3.98 | 7.57 | 11.55 |
| 2200 | 1.10 | 2.21 | 2.57 | 2.57 | 4.78 | 8.46 |
| 2300 | 1.23 | 2.06 | 2.88 | 3.70 | 6.17 | 10.70 |
| Mean | 0.71 | 1.17 | 1.65 | 2.59 | 5.85 | 10.01 |




In April, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 41.5%
2. >500FT and <= 1000FT – 32.6%
3. >300FT and <= 500FT – 9.4%
4. >200FT and <= 300FT – 4.8%
5. >100FT and <= 200FT – 4.6%
6. <=100FT – 7.1%

In April, the mean percentage of cloud ceiling recorded above 1500 feet is 89.99% of the total amount of occurrences (See climatological table of April, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.71 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of April, Model C).

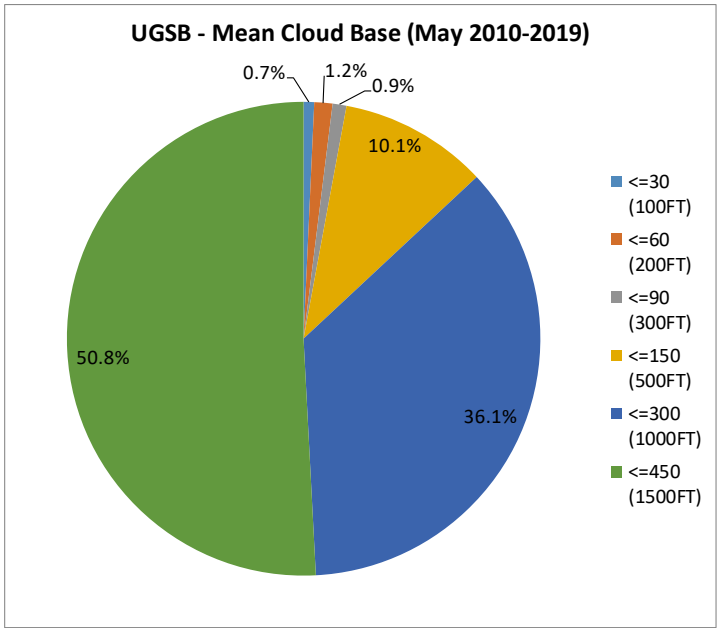
**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL C**

AERODROME: UGSB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | 0.36 | 2.91 | 5.45 |
| 0100 | 0.65 | 0.65 | 0.65 | 1.62 | 5.52 | 8.44 |
| 0200 | 0.36 | 0.71 | 0.71 | 2.50 | 7.14 | 12.50 |
| 0300 | - | - | - | 1.06 | 3.19 | 8.16 |
| 0400 | - | - | 0.32 | 0.65 | 2.60 | 6.82 |
| 0500 | - | - | - | 0.97 | 2.90 | 6.45 |
| 0600 | - | - | - | 0.32 | 3.22 | 5.14 |
| 0700 | - | - | - | 0.65 | 2.27 | 6.47 |
| 0800 | - | - | - | 0.32 | 3.21 | 6.41 |
| 0900 | - | - | - | 0.33 | 2.94 | 6.21 |
| 1000 | - | - | - | 0.32 | 1.62 | 4.22 |
| 1100 | - | - | 0.32 | 0.97 | 2.27 | 4.55 |
| 1200 | - | 0.32 | 0.32 | 0.65 | 1.62 | 3.88 |
| 1300 | - | - | 0.32 | 0.97 | 2.27 | 4.55 |
| 1400 | - | - | - | 0.65 | 2.94 | 4.25 |
| 1500 | - | - | - | 0.33 | 2.65 | 4.97 |
| 1600 | - | - | - | 0.32 | 0.97 | 2.27 |
| 1700 | - | - | 0.35 | 0.71 | 3.53 | 5.65 |
| 1800 | - | - | - | 0.36 | 2.85 | 5.34 |
| 1900 | - | - | - | 0.33 | 2.31 | 4.29 |
| 2000 | - | - | - | 0.36 | 2.18 | 5.09 |
| 2100 | - | - | - | 1.45 | 3.26 | 7.25 |
| 2200 | - | 0.33 | 0.33 | 1.32 | 2.30 | 6.58 |
| 2300 | - | 0.72 | 0.72 | 0.72 | 2.17 | 5.05 |
| Mean | 0.04 | 0.11 | 0.17 | 0.76 | 2.87 | 5.83 |




In May, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 50.8%
2. >500FT and <= 1000FT – 36.1%
3. >300FT and <= 500FT – 10.1%
4. >200FT and <= 300FT – 0.9%
5. >100FT and <= 200FT – 1.2%
6. <=100FT – 0.7%

In May, the mean percentage of cloud ceiling recorded above 1500 feet is 94.17% of the total amount of occurrences (See climatological table of May, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.04 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of May, Model C).

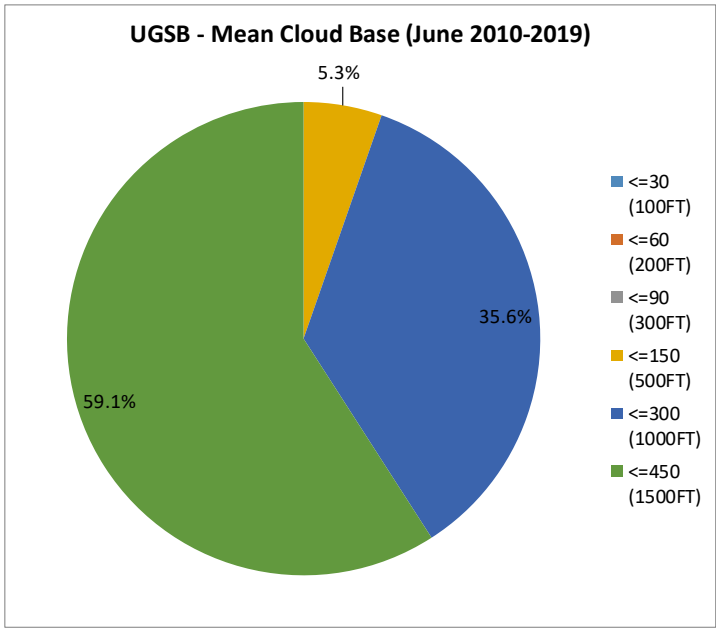
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGSB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | 0.75 | 1.49 |
| 0100 | - | - | - | - | 0.68 | 2.39 |
| 0200 | - | - | - | - | 0.74 | 3.31 |
| 0300 | - | - | - | - | 1.03 | 2.06 |
| 0400 | - | - | - | 0.34 | 1.01 | 1.34 |
| 0500 | - | - | - | 0.34 | 0.67 | 1.01 |
| 0600 | - | - | - | - | 0.66 | 2.33 |
| 0700 | - | - | - | - | 0.99 | 1.32 |
| 0800 | - | - | - | - | 0.33 | 1.00 |
| 0900 | - | - | - | 0.34 | 0.34 | 1.01 |
| 1000 | - | - | - | - | 0.34 | 0.67 |
| 1100 | - | - | - | 0.34 | 0.67 | 0.67 |
| 1200 | - | - | - | - | 0.67 | 1.01 |
| 1300 | - | - | - | - | 0.33 | 1.33 |
| 1400 | - | - | - | - | 0.67 | 1.34 |
| 1500 | - | - | - | - | 1.02 | 1.36 |
| 1600 | - | - | - | - | 0.33 | 1.67 |
| 1700 | - | - | - | - | 0.73 | 1.47 |
| 1800 | - | - | - | - | 0.74 | 1.11 |
| 1900 | - | - | - | - | - | 0.67 |
| 2000 | - | - | - | - | 0.36 | 2.19 |
| 2100 | - | - | - | 0.36 | 0.73 | 2.18 |
| 2200 | - | - | - | - | 1.33 | 3.67 |
| 2300 | - | - | - | 0.37 | 0.74 | 2.21 |
| Mean | - | - | - | 0.09 | 0.66 | 1.62 |




In June, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 59.1%
2. >500FT and <= 1000FT – 35.6%
3. >300FT and <= 500FT – 5.3%
4. >200FT and <= 300FT – not observed
5. >100FT and <= 200FT – not observed
6. <=100FT – not observed

In June, the mean percentage of cloud ceiling recorded above 1500 feet is 98.38% of the total amount of occurrences (See climatological table of June, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.09 percent of minimum cloud height of 500 feet and below (cloud amount BKN and OVC) (see climatological table of June, Model C).

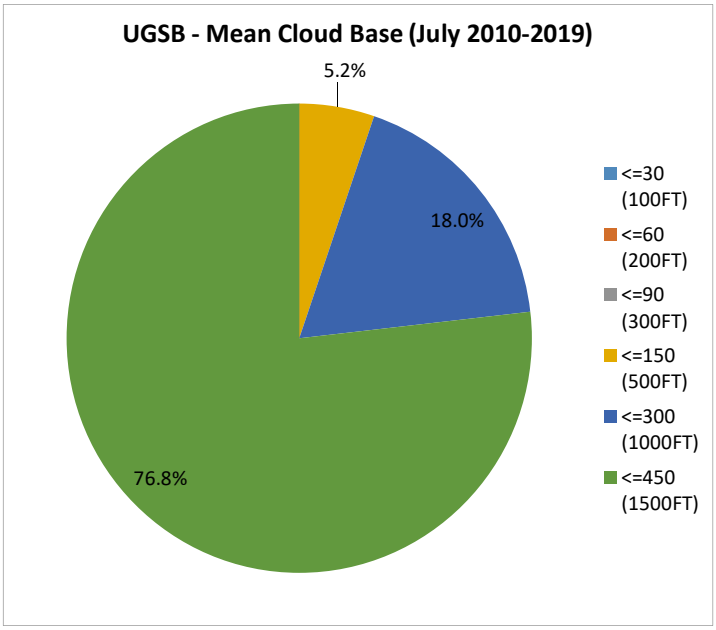
**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL C**

AERODROME: UGSB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | - | 0.72 |
| 0100 | - | - | - | - | - | 0.65 |
| 0200 | - | - | - | - | 1.04 | 2.42 |
| 0300 | - | - | - | - | 0.34 | 1.69 |
| 0400 | - | - | - | - | 0.33 | 1.63 |
| 0500 | - | - | - | - | - | 0.98 |
| 0600 | - | - | - | - | 0.33 | 1.30 |
| 0700 | - | - | - | - | 0.32 | 0.96 |
| 0800 | - | - | - | - | 0.32 | 1.62 |
| 0900 | - | - | - | - | 0.32 | 0.65 |
| 1000 | - | - | - | - | 0.33 | 1.95 |
| 1100 | - | - | - | 0.65 | 0.98 | 1.30 |
| 1200 | - | - | - | 0.33 | 0.33 | 1.97 |
| 1300 | - | - | - | - | - | 1.62 |
| 1400 | - | - | - | - | 0.33 | 1.97 |
| 1500 | - | - | - | - | 0.33 | 1.97 |
| 1600 | - | - | - | 0.33 | 0.66 | 0.66 |
| 1700 | - | - | - | 0.34 | 0.34 | 1.38 |
| 1800 | - | - | - | - | - | 1.37 |
| 1900 | - | - | - | - | - | 0.65 |
| 2000 | - | - | - | - | - | 0.70 |
| 2100 | - | - | - | - | 0.35 | 0.71 |
| 2200 | - | - | - | - | - | 0.67 |
| 2300 | - | - | - | - | 0.71 | 2.12 |
| Mean | - | - | - | 0.07 | 0.31 | 1.32 |




In July, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 76.8%
2. >500FT and <= 1000FT – 18.0%
3. >300FT and <= 500FT – 5.2%
4. >200FT and <= 300FT – not observed
5. >100FT and <= 200FT – not observed
6. <=100FT – not observed

In July, the mean percentage of cloud ceiling recorded above 1500 feet is 98.68% of the total amount of occurrences (See climatological table of July, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.07 percent of minimum cloud height of 500 feet and below (cloud amount BKN and OVC) (see climatological table of July, Model C).

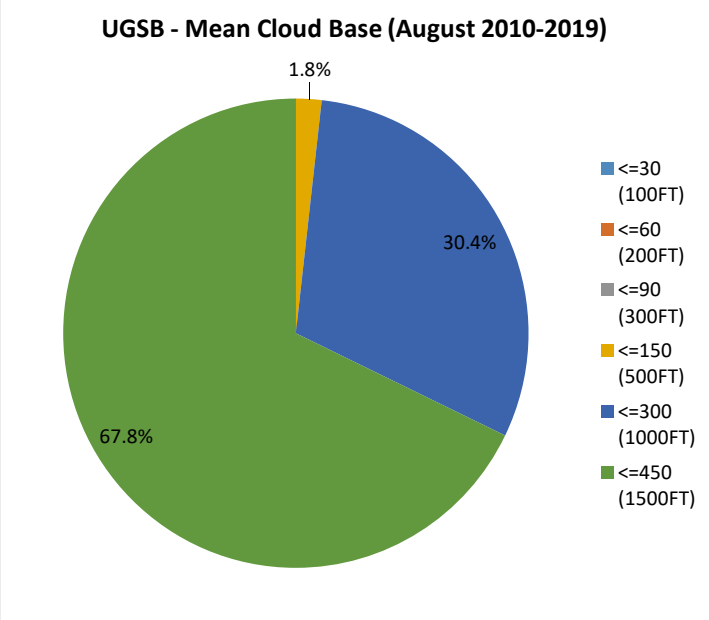
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGSB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | 0.36 | 1.79 |
| 0100 | - | - | - | - | 0.68 | 2.05 |
| 0200 | - | - | - | - | 0.71 | 1.06 |
| 0300 | - | - | - | - | - | - |
| 0400 | - | - | - | - | - | - |
| 0500 | - | - | - | - | 0.33 | 1.30 |
| 0600 | - | - | - | 0.34 | 1.01 | 1.01 |
| 0700 | - | - | - | - | 0.33 | 1.31 |
| 0800 | - | - | - | - | 0.65 | 1.31 |
| 0900 | - | - | - | - | 0.33 | 1.00 |
| 1000 | - | - | - | - | - | 0.33 |
| 1100 | - | - | - | - | 0.66 | 1.64 |
| 1200 | - | - | - | - | 0.33 | 1.97 |
| 1300 | - | - | - | - | 0.33 | 0.65 |
| 1400 | - | - | - | - | - | 0.33 |
| 1500 | - | - | - | - | - | 0.33 |
| 1600 | - | - | - | - | - | - |
| 1700 | - | - | - | - | - | - |
| 1800 | - | - | - | - | - | - |
| 1900 | - | - | - | - | - | 0.68 |
| 2000 | - | - | - | - | - | - |
| 2100 | - | - | - | - | 0.36 | 1.08 |
| 2200 | - | - | - | - | - | 1.02 |
| 2300 | - | - | - | - | - | - |
| Mean | - | - | - | 0.01 | 0.25 | 0.79 |




In August, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1>1000FT and <= 1500FT – 67.8%
2>500FT and <= 1000FT – 30.4%
3>300FT and <= 500FT – 1.8%
4>200FT and <= 300FT – not observed
5>100FT and <= 200FT – not observed
6<=100FT – not observed

In August, the mean percentage of cloud ceiling recorded above 1500 feet is 99.21% of the total amount of occurrences (See climatological table of August, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 500 feet and below (cloud amount BKN and OVC) (see climatological table of August, Model C).

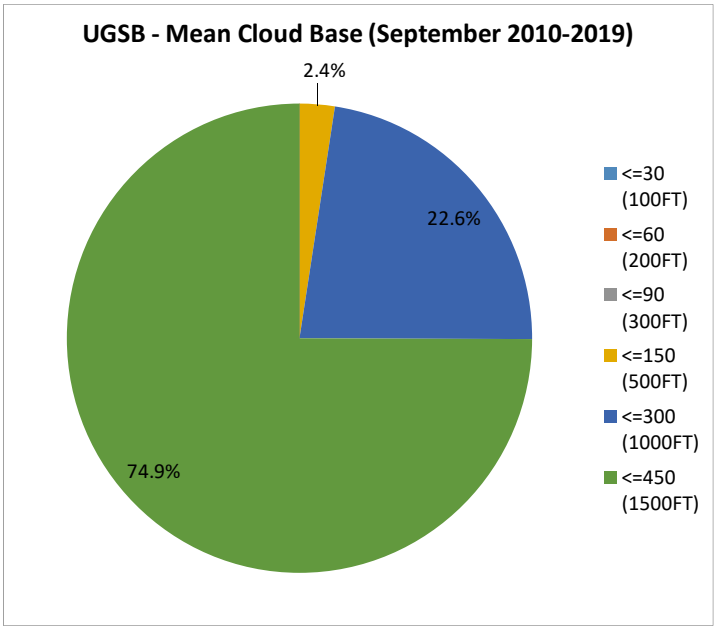
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGSB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | 0.36 | 1.09 |
| 0100 | - | - | - | - | - | 1.35 |
| 0200 | - | - | - | 0.36 | 0.36 | 1.46 |
| 0300 | - | - | - | - | 0.35 | 1.42 |
| 0400 | - | - | - | 0.34 | 1.35 | 1.35 |
| 0500 | - | - | - | - | - | 0.66 |
| 0600 | - | - | - | - | - | 0.67 |
| 0700 | - | - | - | - | - | 2.36 |
| 0800 | - | - | - | - | - | 0.67 |
| 0900 | - | - | - | - | - | 0.67 |
| 1000 | - | - | - | - | - | 0.34 |
| 1100 | - | - | - | - | 0.34 | 0.68 |
| 1200 | - | - | - | - | 0.34 | 0.67 |
| 1300 | - | - | - | - | 0.34 | 1.68 |
| 1400 | - | - | - | - | 1.02 | 1.36 |
| 1500 | - | - | - | - | 0.68 | 1.36 |
| 1600 | - | - | - | - | - | 2.35 |
| 1700 | - | - | - | - | 0.34 | 1.02 |
| 1800 | - | - | - | - | 0.36 | 1.08 |
| 1900 | - | - | - | - | 0.33 | 2.01 |
| 2000 | - | - | - | - | 0.35 | 0.71 |
| 2100 | - | - | - | - | - | 1.45 |
| 2200 | - | - | - | - | 0.34 | 1.69 |
| 2300 | - | - | - | - | 0.36 | 0.71 |
| Mean | - | - | - | 0.03 | 0.30 | 1.20 |




In September, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1>1000FT and <= 1500FT – 74.9%
2>500FT and <= 1000FT – 22.6%
3>300FT and <= 500FT – 2.4%
4>200FT and <= 300FT – not observed
5>100FT and <= 200FT – not observed
6<=100FT – not observed

In September, the mean percentage of cloud ceiling recorded above 1500 feet is 98.80% of the total amount of occurrences (See climatological table of September, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.03 percent of minimum cloud height of 500 feet and below (cloud amount BKN and OVC) (see climatological table of September, Model C).

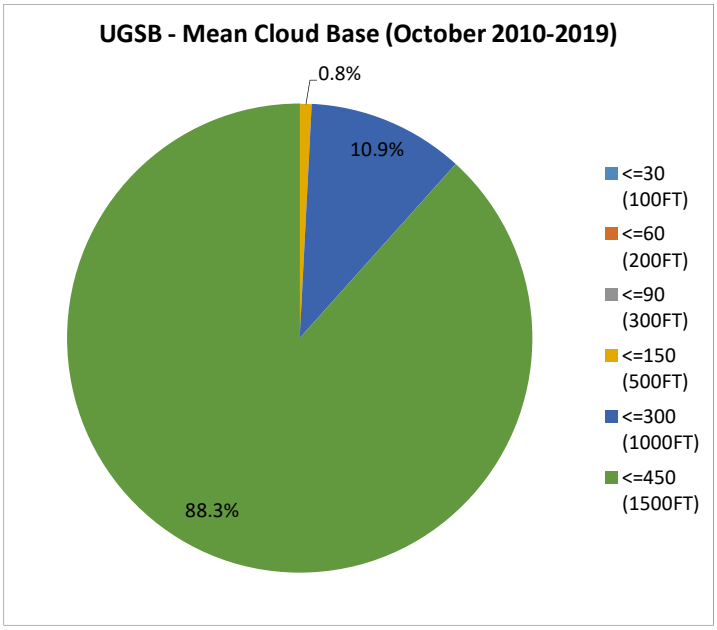
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGSB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | 0.34 | 2.40 |
| 0100 | - | - | - | 0.32 | 0.32 | 2.24 |
| 0200 | - | - | - | - | - | 2.27 |
| 0300 | - | - | - | - | 0.32 | 2.27 |
| 0400 | - | - | - | - | 0.32 | 1.60 |
| 0500 | - | - | - | - | - | 1.92 |
| 0600 | - | - | - | - | - | 0.64 |
| 0700 | - | - | - | - | 0.32 | 1.29 |
| 0800 | - | - | - | - | - | 0.99 |
| 0900 | - | - | - | - | 0.33 | 0.98 |
| 1000 | - | - | - | - | 0.65 | 1.30 |
| 1100 | - | - | - | - | 0.32 | 1.62 |
| 1200 | - | - | - | - | 0.32 | 1.95 |
| 1300 | - | - | - | - | - | 1.61 |
| 1400 | - | - | - | - | - | 0.96 |
| 1500 | - | - | - | - | - | 2.24 |
| 1600 | - | - | - | - | - | 0.64 |
| 1700 | - | - | - | - | - | 1.29 |
| 1800 | - | - | - | - | - | 1.32 |
| 1900 | - | - | - | - | 0.32 | 2.59 |
| 2000 | - | - | - | - | - | 1.94 |
| 2100 | - | - | - | - | 0.33 | 2.30 |
| 2200 | - | - | - | - | 0.32 | 1.61 |
| 2300 | - | - | - | - | 0.32 | 0.95 |
| Mean | - | - | - | 0.01 | 0.19 | 1.62 |




In October, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 88.3%
2. >500FT and <= 1000FT – 10.9%
3. >300FT and <= 500FT – 0.8%
4. >200FT and <= 300FT – not observed
5. >100FT and <= 200FT – not observed
6. <=100FT – not observed

In October, the mean percentage of cloud ceiling recorded above 1500 feet is 98.38% of the total amount of occurrences (See climatological table of October, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 500 feet and below (cloud amount BKN and OVC) (see climatological table of October, Model C).

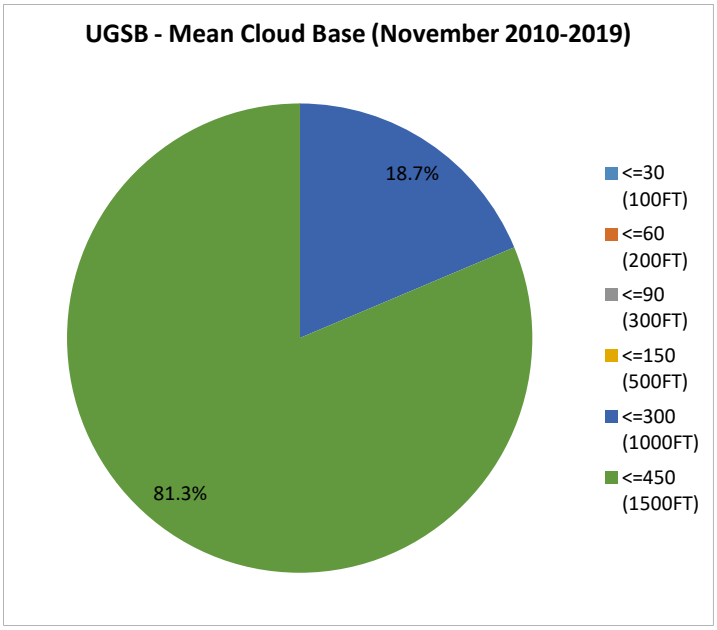
**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL C**

AERODROME: UGSB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | - | - | - |
| 0100 | - | - | - | - | - | - |
| 0200 | - | - | - | - | 0.66 | 1.32 |
| 0300 | - | - | - | - | 0.33 | 0.99 |
| 0400 | - | - | - | - | - | - |
| 0500 | - | - | - | - | - | - |
| 0600 | - | - | - | - | 0.67 | 1.00 |
| 0700 | - | - | - | - | - | - |
| 0800 | - | - | - | - | 0.33 | 1.32 |
| 0900 | - | - | - | - | - | 1.01 |
| 1000 | - | - | - | - | - | 0.33 |
| 1100 | - | - | - | - | - | 0.67 |
| 1200 | - | - | - | - | - | 0.67 |
| 1300 | - | - | - | - | - | 0.34 |
| 1400 | - | - | - | - | - | - |
| 1500 | - | - | - | - | - | 0.34 |
| 1600 | - | - | - | - | - | 0.33 |
| 1700 | - | - | - | - | - | - |
| 1800 | - | - | - | - | - | - |
| 1900 | - | - | - | - | - | 0.33 |
| 2000 | - | - | - | - | - | 0.33 |
| 2100 | - | - | - | - | - | 0.99 |
| 2200 | - | - | - | - | - | 0.34 |
| 2300 | - | - | - | - | - | 0.33 |
| Mean | - | - | - | - | 0.08 | 0.44 |




In November, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 81.3%
2. >500FT and <= 1000FT – 18.7%
3. >300FT and <= 500FT – not observed
4. >200FT and <= 300FT – not observed
5. >100FT and <= 200FT – not observed
6. <=100FT – not observed

In November, the mean percentage of cloud ceiling recorded above 1500 feet is 99.56% of the total amount of occurrences (See climatological table of November, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.08 percent of minimum cloud height of 1000 feet and below (cloud amount BKN and OVC) (see climatological table of November, Model C).

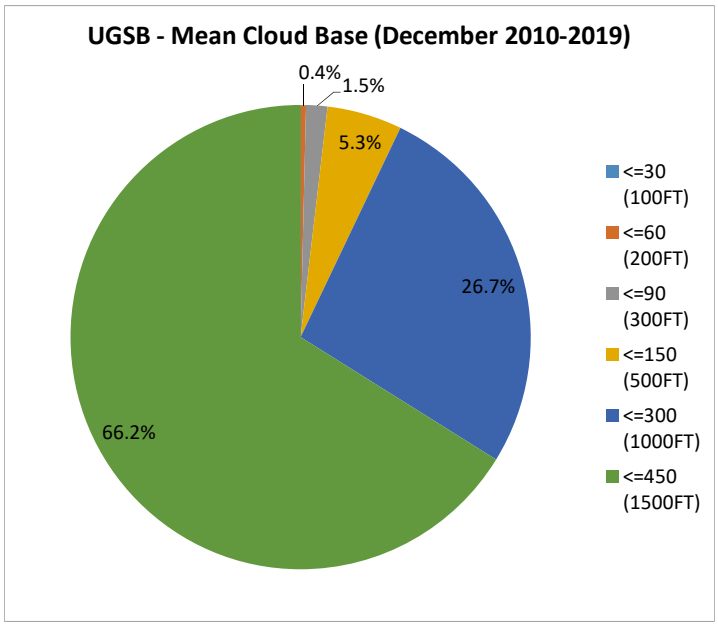
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGSB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0000 | - | - | - | 0.66 | 1.97 | 4.28 |
| 0100 | - | - | - | - | 0.96 | 4.50 |
| 0200 | - | - | - | 0.33 | 1.31 | 3.92 |
| 0300 | - | - | - | - | 0.65 | 3.56 |
| 0400 | - | - | - | - | 0.65 | 3.87 |
| 0500 | - | - | - | - | 0.65 | 3.56 |
| 0600 | - | - | - | 0.64 | 1.61 | 3.86 |
| 0700 | - | - | 0.32 | 0.32 | 1.60 | 2.88 |
| 0800 | - | - | - | 0.97 | 1.94 | 3.23 |
| 0900 | - | 0.32 | 0.32 | 0.65 | 1.61 | 4.52 |
| 1000 | - | - | 0.32 | 0.32 | 0.64 | 3.85 |
| 1100 | - | - | - | - | 1.29 | 3.56 |
| 1200 | - | - | - | - | 1.32 | 3.31 |
| 1300 | - | - | - | 0.32 | 1.61 | 2.90 |
| 1400 | - | - | - | - | 1.30 | 2.61 |
| 1500 | - | - | - | - | 1.62 | 3.57 |
| 1600 | - | - | - | - | 0.64 | 2.88 |
| 1700 | - | - | - | 0.32 | 1.29 | 3.55 |
| 1800 | - | - | - | - | 0.97 | 3.24 |
| 1900 | - | - | - | 0.32 | 0.96 | 2.89 |
| 2000 | - | - | - | 0.32 | 1.28 | 3.85 |
| 2100 | - | - | 0.32 | 0.32 | 0.97 | 2.59 |
| 2200 | - | - | 0.32 | 0.32 | 1.60 | 4.47 |
| 2300 | - | - | - | 0.33 | 0.65 | 4.56 |
| Mean | - | 0.01 | 0.07 | 0.26 | 1.21 | 3.58 |




In December, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 66.2%
2. >500FT and <= 1000FT – 26.7%
3. >300FT and <= 500FT – 5.3%
4. >200FT and <= 300FT – 1.5%
5. >100FT and <= 200FT – 0.4%
6. <=100FT – not observed

In December, the mean percentage of cloud ceiling recorded above 1500 feet is 96.42% of the total amount of occurrences (See climatological table of December, Model C).

Ten-year observation data on clouds revealed average occurrence probability of 0.01 percent of minimum cloud height of 200 feet and below (cloud amount BKN and OVC) (see climatological table of December, Model C).

## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

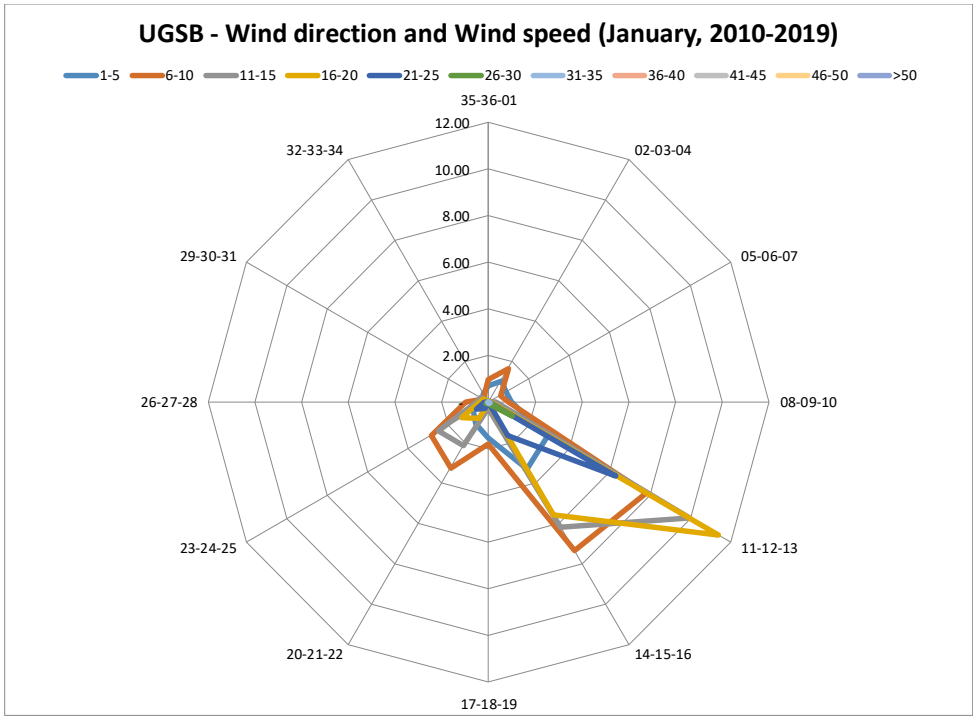
AERODROME: UGSB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.55 |
| VARIABLE | 1.86 | 0.23 | - | - | - | - | - | - | - | - | - | 2.09 |
| 35-36-01 | 0.71 | 0.99 | 0.01 | 0.02 | - | - | - | - | - | - | - | 1.72 |
| 02-03-04 | 1.07 | 1.68 | 0.05 | - | - | - | - | - | - | - | - | 2.79 |
| 05-06-07 | 0.88 | 0.58 | 0.07 | 0.05 | - | - | - | - | - | - | - | 1.58 |
| 08-09-10 | 1.00 | 0.85 | 0.32 | 0.07 | 0.01 | - | - | - | - | - | - | 2.24 |
| 11-12-13 | 2.92 | 7.78 | 9.93 | 11.38 | 6.31 | 1.17 | 0.07 | - | - | - | - | 39.55 |
| 14-15-16 | 3.30 | 7.35 | 6.18 | 5.56 | 1.63 | 0.11 | - | - | - | - | - | 24.12 |
| 17-18-19 | 1.54 | 1.78 | 0.25 | 0.01 | - | - | - | - | - | - | - | 3.57 |
| 20-21-22 | 1.08 | 3.24 | 2.15 | 0.81 | 0.29 | 0.08 | 0.02 | - | - | - | - | 7.68 |
| 23-24-25 | 0.75 | 2.84 | 2.47 | 1.34 | 0.60 | 0.12 | 0.01 | - | - | - | - | 8.13 |
| 26-27-28 | 0.58 | 0.97 | 0.53 | 0.38 | 0.18 | 0.08 | - | - | - | - | - | 2.73 |
| 29-30-31 | 0.34 | 0.30 | 0.39 | 0.26 | 0.03 | 0.02 | 0.01 | - | - | - | - | 1.34 |
| 32-33-34 | 0.41 | 0.35 | 0.08 | 0.05 | 0.01 | - | - | - | - | - | - | 0.90 |
| TOTAL | 16.44 | 28.92 | 22.43 | 19.92 | 9.06 | 1.58 | 0.10 | - | - | - | - | 100 |




**CALM**
1.55%

**VARIABLE**
2.09%

The prevailing wind directions of 110º-160º frequency of occurrence is 63.67%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze (frequency of occurrence 45.36%) and wind speed of 11-20 knots, which is the Moderate and Fresh breeze (frequency of occurrence 42.35%) according to “Beaufort wind force scale”.

The maximum wind of 31-35 knots is observed within the 110º-130º, 200º-220º, 230º-250º and 290º-310º sectors (frequency of occurrence 0.10%).

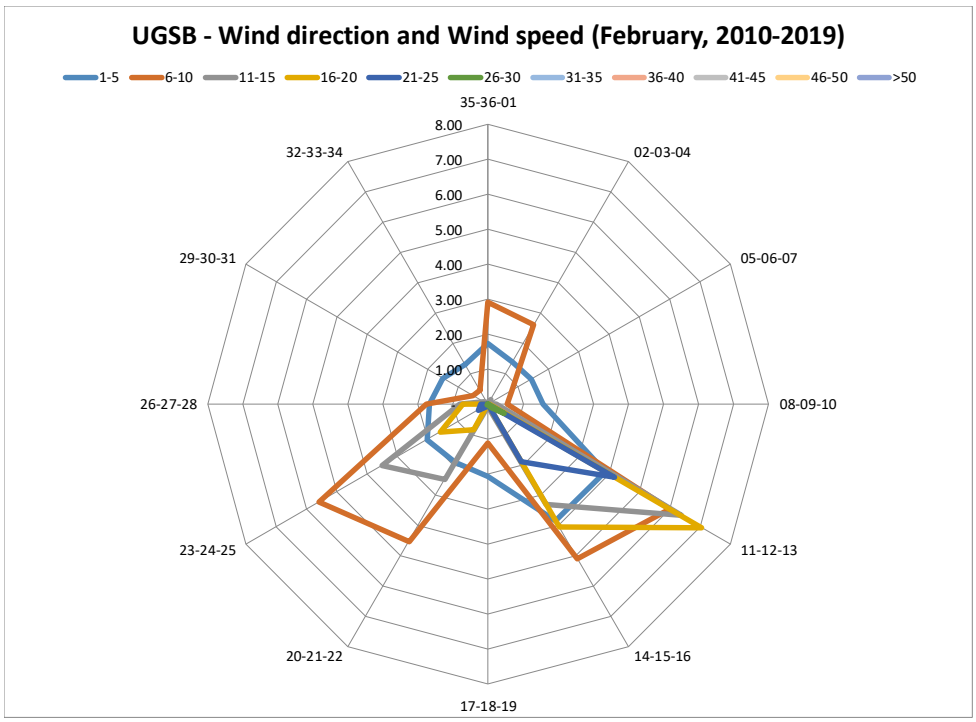
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12192 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.86 |
| VARIABLE | 2.91 | 0.23 | - | - | - | - | - | - | - | - | - | 3.14 |
| 35-36-01 | 1.75 | 2.92 | 0.02 | - | - | - | - | - | - | - | - | 4.68 |
| 02-03-04 | 1.39 | 2.62 | 0.15 | - | - | - | - | - | - | - | - | 4.16 |
| 05-06-07 | 1.42 | 0.79 | 0.04 | - | - | - | - | - | - | - | - | 2.25 |
| 08-09-10 | 1.58 | 0.55 | 0.23 | 0.04 | - | - | - | - | - | - | - | 2.40 |
| 11-12-13 | 3.86 | 5.99 | 6.36 | 7.03 | 4.17 | 0.53 | - | - | - | - | - | 27.95 |
| 14-15-16 | 3.83 | 5.10 | 3.30 | 4.06 | 1.90 | 0.09 | - | - | - | - | - | 18.28 |
| 17-18-19 | 2.05 | 1.10 | 0.05 | - | - | - | - | - | - | - | - | 3.20 |
| 20-21-22 | 1.91 | 4.52 | 2.48 | 0.84 | 0.08 | 0.01 | - | - | - | - | - | 9.84 |
| 23-24-25 | 2.02 | 5.57 | 3.49 | 1.58 | 0.33 | 0.04 | - | - | - | - | - | 13.02 |
| 26-27-28 | 1.67 | 1.76 | 0.82 | 0.71 | 0.21 | 0.02 | - | - | - | - | - | 5.19 |
| 29-30-31 | 1.49 | 0.50 | 0.15 | 0.01 | 0.01 | - | - | - | - | - | - | 2.16 |
| 32-33-34 | 1.30 | 0.47 | 0.07 | 0.01 | - | - | - | - | - | - | - | 1.86 |
| TOTAL | 27.18 | 32.12 | 17.17 | 14.27 | 6.69 | 0.69 | - | - | - | - | - | 100 |




**CALM**
1.86%

**VARIABLE**
3.14%

The prevailing wind directions of 110º-160º frequency of occurrence is 46.23%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze according to "Beaufort wind force scale" (frequency of occurrence 59.30%).

The maximum wind of 26-30 knots is observed within the 110º-130º, 140º-160º, 200º-220º, 230º-250º and 260º-280º sectors (frequency of occurrence 0.69%).

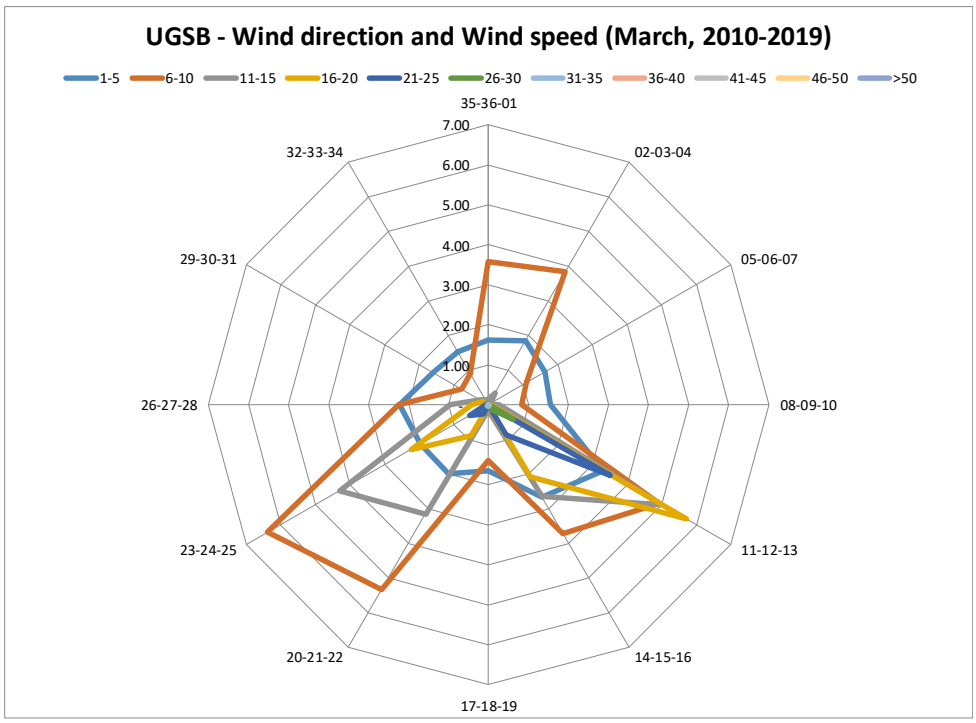
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 2.76 |
| VARIABLE | 3.09 | 0.26 | 0.01 | - | - | - | - | - | - | - | - | 3.35 |
| 35-36-01 | 1.61 | 3.59 | 0.13 | - | - | - | - | - | - | - | - | 5.33 |
| 02-03-04 | 1.84 | 3.84 | 0.35 | - | - | - | - | - | - | - | - | 6.03 |
| 05-06-07 | 1.64 | 1.09 | 0.02 | - | - | - | - | - | - | - | - | 2.74 |
| 08-09-10 | 1.55 | 0.83 | 0.27 | 0.05 | - | - | - | - | - | - | - | 2.71 |
| 11-12-13 | 3.30 | 4.92 | 4.98 | 5.71 | 3.51 | 0.71 | 0.02 | - | - | - | - | 23.16 |
| 14-15-16 | 2.67 | 3.71 | 2.64 | 2.08 | 0.88 | 0.14 | 0.02 | - | - | - | - | 12.15 |
| 17-18-19 | 1.65 | 1.40 | 0.13 | 0.03 | - | - | - | - | - | - | - | 3.22 |
| 20-21-22 | 1.98 | 5.33 | 3.15 | 0.88 | 0.26 | 0.05 | 0.03 | - | - | - | - | 11.68 |
| 23-24-25 | 1.96 | 6.38 | 4.29 | 2.22 | 0.55 | 0.06 | 0.01 | - | - | - | - | 15.47 |
| 26-27-28 | 2.22 | 2.24 | 0.95 | 0.43 | 0.07 | 0.02 | - | - | - | - | - | 5.93 |
| 29-30-31 | 1.61 | 0.78 | 0.25 | 0.18 | 0.05 | 0.02 | - | - | - | - | - | 2.88 |
| 32-33-34 | 1.53 | 0.91 | 0.13 | 0.02 | - | - | - | - | - | - | - | 2.59 |
| TOTAL | 26.67 | 35.27 | 17.31 | 11.60 | 5.32 | 0.99 | 0.08 | - | - | - | - | 100 |




**CALM**
2.76%

**VARIABLE**
3.35%

The prevailing wind directions of 110º-160º frequency of occurrence is 35.31% and that of 200º-250º directions is 27.15%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze according to "Beaufort wind force scale" (frequency of occurrence 62.94%).

The maximum wind of 31-35 knots is observed within the 110º-130º and 140º-160º sectors (frequency of occurrence 0.04%) and within the 200º-220º and 230º-250º sectors (frequency of occurrence 0.04%).

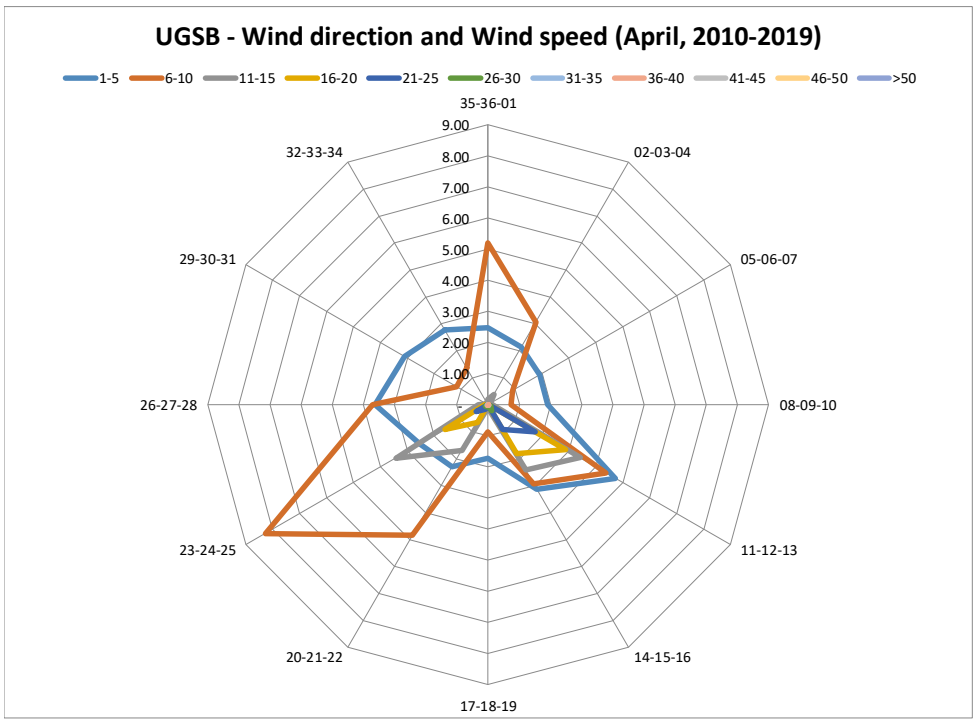
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 2.99 |
| VARIABLE | 3.76 | 0.24 | - | - | - | - | - | - | - | - | - | 4.00 |
| 35-36-01 | 2.48 | 5.20 | 0.18 | - | - | - | - | - | - | - | - | 7.87 |
| 02-03-04 | 2.14 | 3.06 | 0.38 | 0.01 | - | - | - | - | - | - | - | 5.59 |
| 05-06-07 | 1.92 | 0.92 | 0.09 | - | - | - | - | - | - | - | - | 2.92 |
| 08-09-10 | 1.90 | 0.74 | 0.13 | 0.02 | 0.01 | - | - | - | - | - | - | 2.80 |
| 11-12-13 | 4.72 | 4.38 | 3.41 | 2.88 | 1.76 | 0.11 | - | - | - | - | - | 17.26 |
| 14-15-16 | 3.13 | 2.93 | 2.41 | 1.80 | 0.91 | 0.21 | 0.01 | - | - | - | - | 11.40 |
| 17-18-19 | 1.72 | 0.87 | 0.09 | - | - | - | - | - | - | - | - | 2.68 |
| 20-21-22 | 2.30 | 4.85 | 1.68 | 0.65 | 0.16 | 0.08 | 0.03 | - | - | - | - | 9.76 |
| 23-24-25 | 2.52 | 8.27 | 3.42 | 1.59 | 0.45 | 0.10 | 0.03 | 0.01 | - | - | - | 16.38 |
| 26-27-28 | 3.64 | 3.71 | 0.31 | 0.10 | 0.02 | 0.01 | - | - | - | - | - | 7.77 |
| 29-30-31 | 3.11 | 1.16 | 0.06 | - | - | - | - | - | - | - | - | 4.33 |
| 32-33-34 | 2.78 | 1.37 | 0.09 | 0.01 | - | - | - | - | - | - | - | 4.25 |
| TOTAL | 36.14 | 37.70 | 12.24 | 7.06 | 3.29 | 0.51 | 0.07 | 0.01 | - | - | - | 100 |




**CALM**
2.99%

**VARIABLE**
4.00%

The prevailing wind directions of 110º-160º frequency of occurrence is 28.66% and that of 200º-250º directions is 24.15%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze according to "Beaufort wind force scale" (frequency of occurrence 73.84%).

The maximum wind of 36-40 knots is observed within the 230º-250º sector (frequency of occurrence 0.01%).

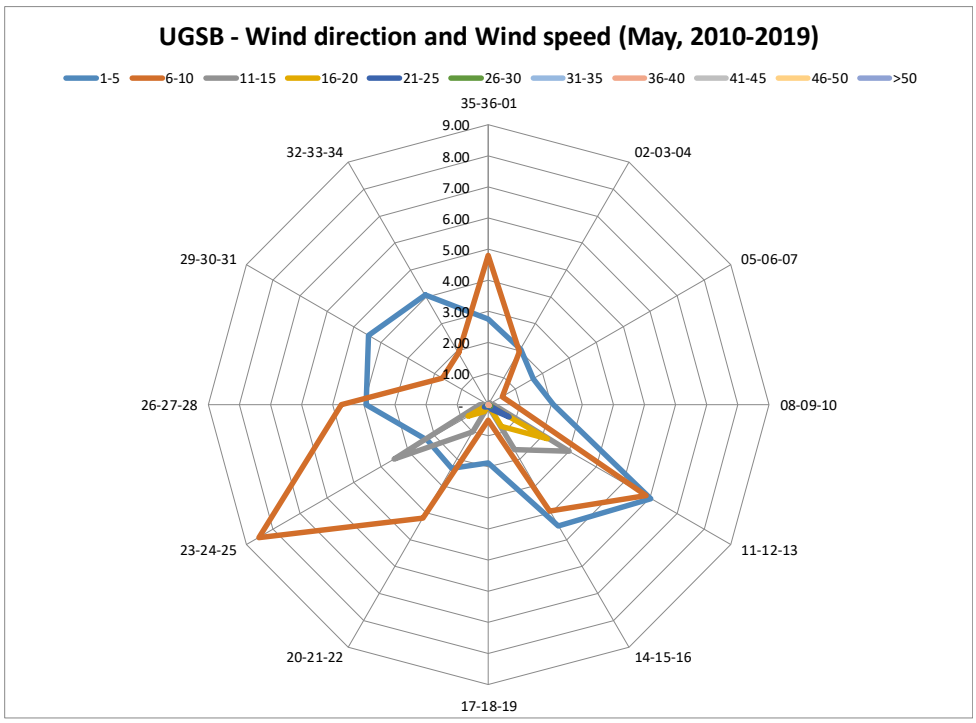
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 3.58 |
| VARIABLE | 3.64 | 0.13 | 0.01 | - | - | - | - | - | - | - | - | 3.77 |
| 35-36-01 | 2.76 | 4.81 | 0.02 | - | - | - | - | - | - | - | - | 7.59 |
| 02-03-04 | 2.05 | 1.98 | 0.05 | - | - | - | - | - | - | - | - | 4.09 |
| 05-06-07 | 1.66 | 0.51 | - | - | - | - | - | - | - | - | - | 2.17 |
| 08-09-10 | 2.08 | 0.81 | 0.16 | - | - | - | - | - | - | - | - | 3.05 |
| 11-12-13 | 6.03 | 5.85 | 2.98 | 2.17 | 0.77 | 0.08 | 0.02 | 0.01 | - | - | - | 17.90 |
| 14-15-16 | 4.49 | 3.94 | 1.66 | 0.80 | 0.16 | 0.02 | 0.01 | - | - | - | - | 11.07 |
| 17-18-19 | 1.88 | 0.50 | 0.05 | - | - | - | - | - | - | - | - | 2.43 |
| 20-21-22 | 2.37 | 4.20 | 1.01 | 0.27 | 0.08 | 0.02 | 0.01 | - | - | - | - | 7.96 |
| 23-24-25 | 2.26 | 8.51 | 3.50 | 0.75 | 0.14 | 0.03 | - | - | - | - | - | 15.20 |
| 26-27-28 | 3.93 | 4.75 | 0.28 | 0.02 | - | - | - | - | - | - | - | 8.97 |
| 29-30-31 | 4.45 | 1.72 | 0.03 | 0.02 | - | - | - | - | - | - | - | 6.22 |
| 32-33-34 | 4.06 | 1.93 | 0.01 | - | - | - | 0.01 | - | - | - | - | 6.01 |
| TOTAL | 41.65 | 39.65 | 9.75 | 4.02 | 1.16 | 0.14 | 0.04 | 0.01 | - | - | - | 100 |




**CALM**
3.58%

**VARIABLE**
3.77%

The prevailing wind directions of 110º-160º frequency of occurrence is 28.97% and that of 230º-280º directions is 24.17%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 81.30%).

The maximum wind of 36-40 knots is observed within the 110º-130º sector (frequency of occurrence 0.01%).

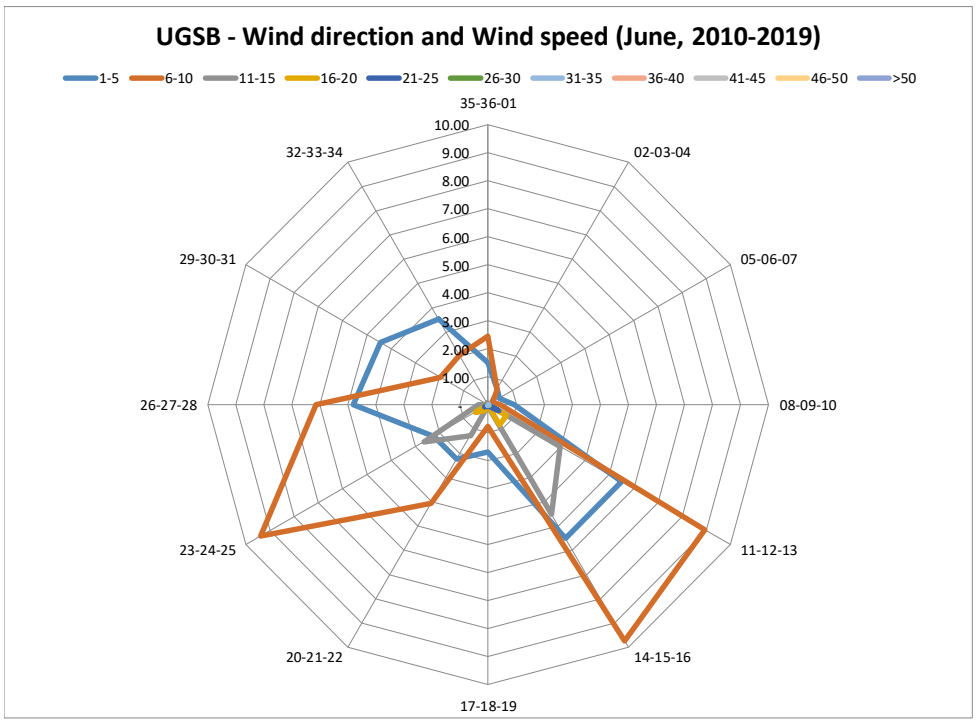
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 2.18 |
| VARIABLE | 2.29 | 0.09 | - | 0.01 | - | - | - | - | - | - | - | 2.39 |
| 35-36-01 | 1.49 | 2.44 | 0.05 | - | - | - | - | - | - | - | - | 3.98 |
| 02-03-04 | 0.66 | 0.63 | 0.04 | - | - | - | - | - | - | - | - | 1.33 |
| 05-06-07 | 0.46 | 0.19 | 0.02 | - | - | - | - | - | - | - | - | 0.66 |
| 08-09-10 | 0.94 | 0.43 | 0.02 | - | - | - | - | - | - | - | - | 1.39 |
| 11-12-13 | 5.48 | 8.94 | 2.97 | 0.76 | 0.43 | 0.05 | - | - | - | - | - | 18.62 |
| 14-15-16 | 5.51 | 9.72 | 4.50 | 0.82 | 0.05 | - | - | - | - | - | - | 20.61 |
| 17-18-19 | 1.69 | 0.78 | 0.04 | - | - | - | - | - | - | - | - | 2.51 |
| 20-21-22 | 2.23 | 4.07 | 1.27 | 0.25 | 0.05 | 0.02 | 0.01 | - | - | - | - | 7.90 |
| 23-24-25 | 2.24 | 9.37 | 2.65 | 0.54 | 0.14 | 0.02 | - | - | - | - | - | 14.96 |
| 26-27-28 | 4.83 | 6.15 | 0.34 | 0.02 | 0.01 | - | - | - | - | - | - | 11.35 |
| 29-30-31 | 4.43 | 1.97 | 0.02 | 0.02 | 0.01 | 0.01 | - | - | - | - | - | 6.45 |
| 32-33-34 | 3.55 | 2.05 | 0.07 | - | - | - | - | - | - | - | - | 5.67 |
| TOTAL | 35.80 | 46.83 | 11.98 | 2.41 | 0.69 | 0.10 | 0.01 | - | - | - | - | 100 |




**CALM**
2.18%

**VARIABLE**
2.39%

The prevailing wind directions of 110º-160º frequency of occurrence is 39.23%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 82.63%).

The maximum wind of 31-35 knots is observed within the 200º-220º sector (frequency of occurrence 0.01%).

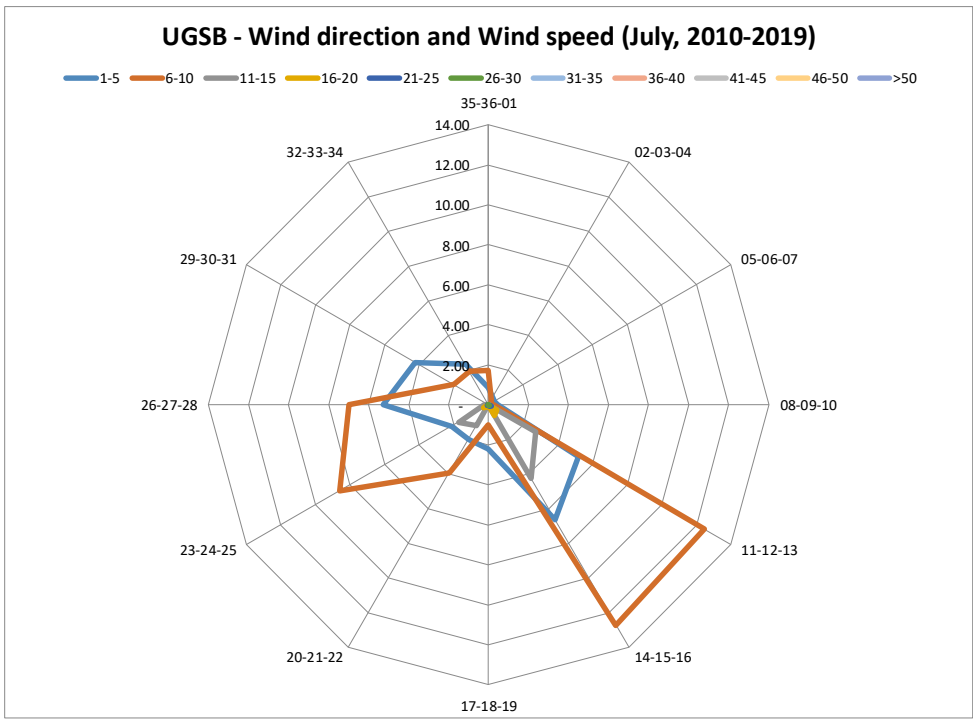
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.65 |
| VARIABLE | 2.25 | 0.06 | - | - | - | - | - | - | - | - | - | 2.31 |
| 35-36-01 | 0.86 | 1.72 | - | - | - | - | - | - | - | - | - | 2.58 |
| 02-03-04 | 0.40 | 0.24 | - | - | - | - | - | - | - | - | - | 0.63 |
| 05-06-07 | 0.33 | 0.11 | 0.02 | - | - | - | - | - | - | - | - | 0.46 |
| 08-09-10 | 0.46 | 0.24 | - | - | - | - | - | - | - | - | - | 0.70 |
| 11-12-13 | 5.18 | 12.44 | 2.74 | 0.49 | 0.17 | 0.04 | - | - | - | - | - | 21.05 |
| 14-15-16 | 6.65 | 12.71 | 4.23 | 0.60 | 0.06 | 0.02 | - | - | - | - | - | 24.28 |
| 17-18-19 | 2.21 | 0.99 | 0.01 | - | - | - | - | - | - | - | - | 3.21 |
| 20-21-22 | 1.99 | 3.92 | 1.18 | 0.11 | 0.01 | - | - | - | - | - | - | 7.21 |
| 23-24-25 | 2.14 | 8.60 | 1.75 | 0.30 | 0.05 | 0.01 | - | - | - | - | - | 12.85 |
| 26-27-28 | 5.28 | 6.98 | 0.22 | 0.03 | - | - | - | - | - | - | - | 12.50 |
| 29-30-31 | 4.25 | 2.01 | 0.05 | - | - | - | - | - | - | - | - | 6.31 |
| 32-33-34 | 2.33 | 1.92 | 0.01 | - | - | - | - | - | - | - | - | 4.26 |
| TOTAL | 34.31 | 51.94 | 10.21 | 1.53 | 0.29 | 0.06 | - | - | - | - | - | 100 |




**CALM**
1.65%

**VARIABLE**
2.31%

The prevailing wind directions of 110º-160º frequency of occurrence is 45.33%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 86.25%).

The maximum wind of 26-30 knots is observed within the 140º-160º, $110^0$-$130^0$, $230^0$-$250^0$ sectors (frequency of occurrence 0.06%).

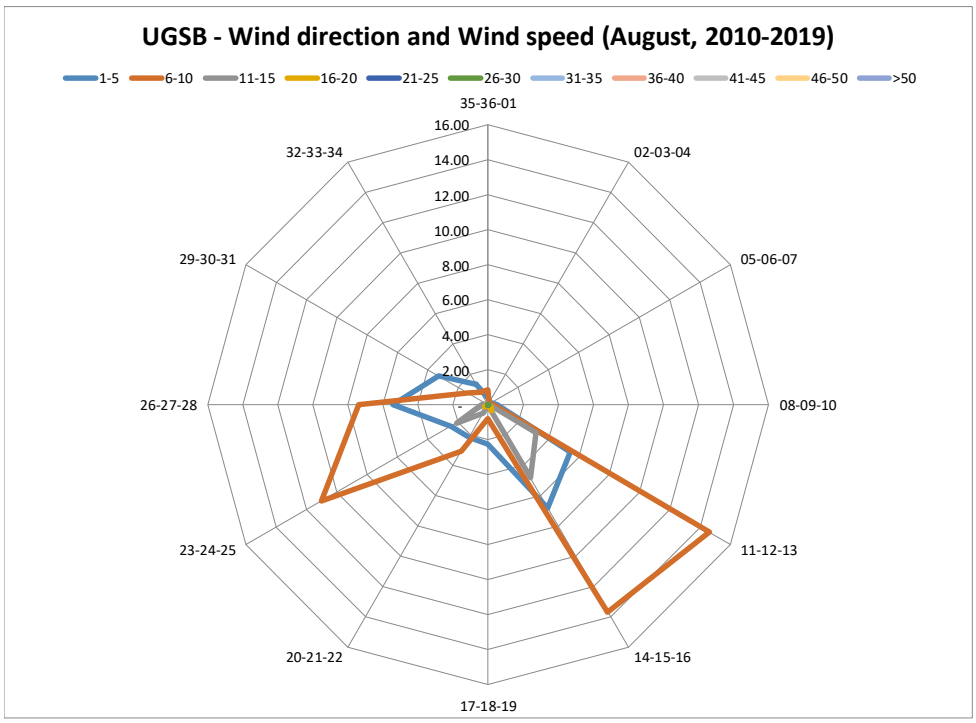
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.23 |
| VARIABLE | 1.96 | 0.07 | 0.01 | - | - | - | - | - | - | - | - | 2.04 |
| 35-36-01 | 0.40 | 0.87 | 0.01 | - | - | 0.01 | - | - | - | - | - | 1.29 |
| 02-03-04 | 0.18 | 0.12 | - | - | - | - | - | - | - | - | - | 0.30 |
| 05-06-07 | 0.22 | 0.12 | 0.04 | - | - | - | - | - | - | - | - | 0.38 |
| 08-09-10 | 0.52 | 0.30 | 0.05 | - | - | - | - | - | - | - | - | 0.87 |
| 11-12-13 | 5.39 | 14.58 | 3.13 | 0.19 | 0.01 | - | - | - | - | - | - | 23.29 |
| 14-15-16 | 6.80 | 13.67 | 4.82 | 0.41 | - | - | - | - | - | - | - | 25.71 |
| 17-18-19 | 2.24 | 0.77 | 0.04 | - | - | - | - | - | - | - | - | 3.05 |
| 20-21-22 | 2.16 | 3.05 | 0.53 | 0.02 | 0.03 | 0.01 | - | - | - | - | - | 5.80 |
| 23-24-25 | 2.42 | 11.02 | 2.07 | 0.22 | 0.04 | 0.03 | - | - | - | - | - | 15.79 |
| 26-27-28 | 5.42 | 7.38 | 0.38 | 0.07 | 0.01 | - | - | - | - | - | - | 13.26 |
| 29-30-31 | 3.27 | 1.38 | 0.07 | 0.02 | - | 0.01 | - | - | - | - | - | 4.75 |
| 32-33-34 | 1.35 | 0.83 | 0.04 | 0.01 | 0.01 | - | - | - | - | - | - | 2.24 |
| TOTAL | 32.32 | 54.17 | 11.19 | 0.95 | 0.09 | 0.05 | - | - | - | - | - | 100 |




**CALM**
1.23%

**VARIABLE**
2.04%

The prevailing wind directions of 110º-160º frequency of occurrence is 49.00%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 86.49%).

The maximum wind of 26-30 knots is observed within the 200º-220º sector (frequency of occurrence 0.01%), within the 230º-250º sector (frequency of occurrence 0.03%), within the 290º-310º sector (frequency of occurrence 0.01%), and within the 350º-10º sector (frequency of occurrence 0.01%).

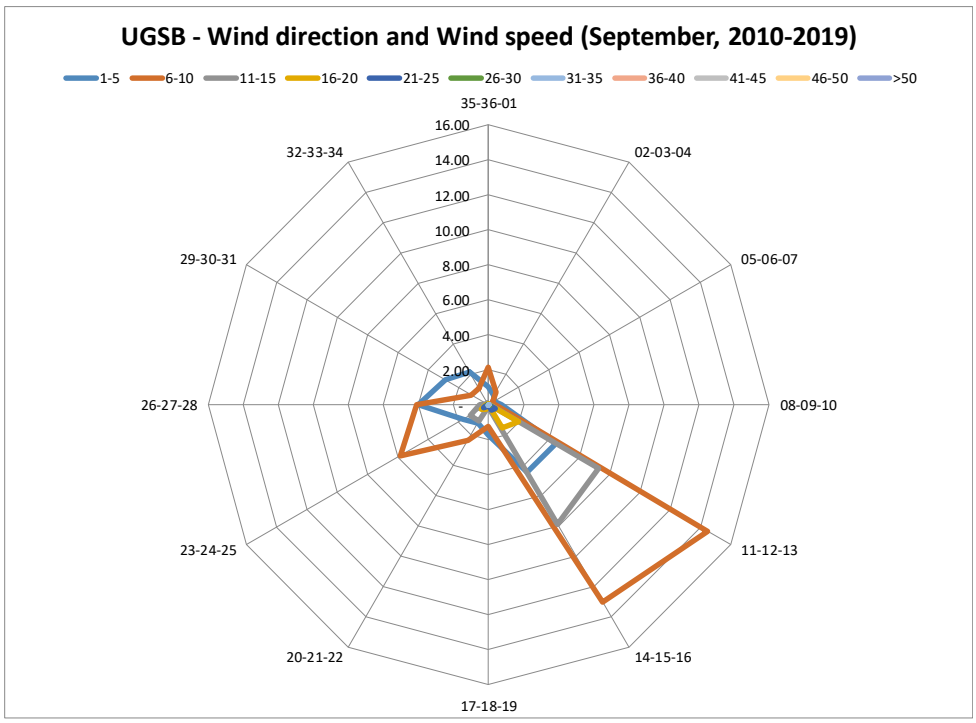
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.36 |
| VARIABLE | 1.92 | 0.13 | 0.01 | - | - | - | - | - | - | - | - | 2.06 |
| 35-36-01 | 1.02 | 2.16 | 0.04 | 0.01 | - | - | - | - | - | - | - | 3.23 |
| 02-03-04 | 0.61 | 0.81 | 0.04 | 0.01 | - | - | - | - | - | - | - | 1.46 |
| 05-06-07 | 0.38 | 0.22 | 0.03 | - | - | - | - | - | - | - | - | 0.62 |
| 08-09-10 | 0.71 | 0.39 | 0.06 | 0.02 | - | - | - | - | - | - | - | 1.18 |
| 11-12-13 | 4.43 | 14.46 | 7.27 | 1.95 | 0.46 | 0.09 | - | - | - | - | - | 28.66 |
| 14-15-16 | 4.44 | 13.01 | 7.89 | 1.52 | 0.33 | 0.01 | - | - | - | - | - | 27.19 |
| 17-18-19 | 1.72 | 1.22 | 0.14 | 0.01 | - | - | - | - | - | - | - | 3.09 |
| 20-21-22 | 1.23 | 2.36 | 1.08 | 0.30 | 0.07 | - | 0.01 | - | - | - | - | 5.04 |
| 23-24-25 | 1.69 | 5.83 | 1.22 | 0.48 | 0.32 | 0.02 | - | - | - | - | - | 9.55 |
| 26-27-28 | 4.01 | 4.10 | 0.51 | 0.14 | 0.07 | 0.01 | - | - | - | - | - | 8.84 |
| 29-30-31 | 2.82 | 1.13 | 0.16 | 0.07 | 0.03 | 0.01 | - | - | - | - | - | 4.22 |
| 32-33-34 | 2.16 | 1.11 | 0.11 | 0.08 | 0.02 | 0.01 | - | - | - | - | - | 3.49 |
| TOTAL | 27.14 | 46.90 | 18.54 | 4.59 | 1.30 | 0.15 | 0.01 | - | - | - | - | 100 |




**CALM**
1.36%

**VARIABLE**
2.06%

The prevailing wind directions of 110º-160º frequency of occurrence is 55.85%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 74.04%).

The maximum wind of 31-35 knots is observed within the 200º-220º sector (frequency of occurrence 0.01%).

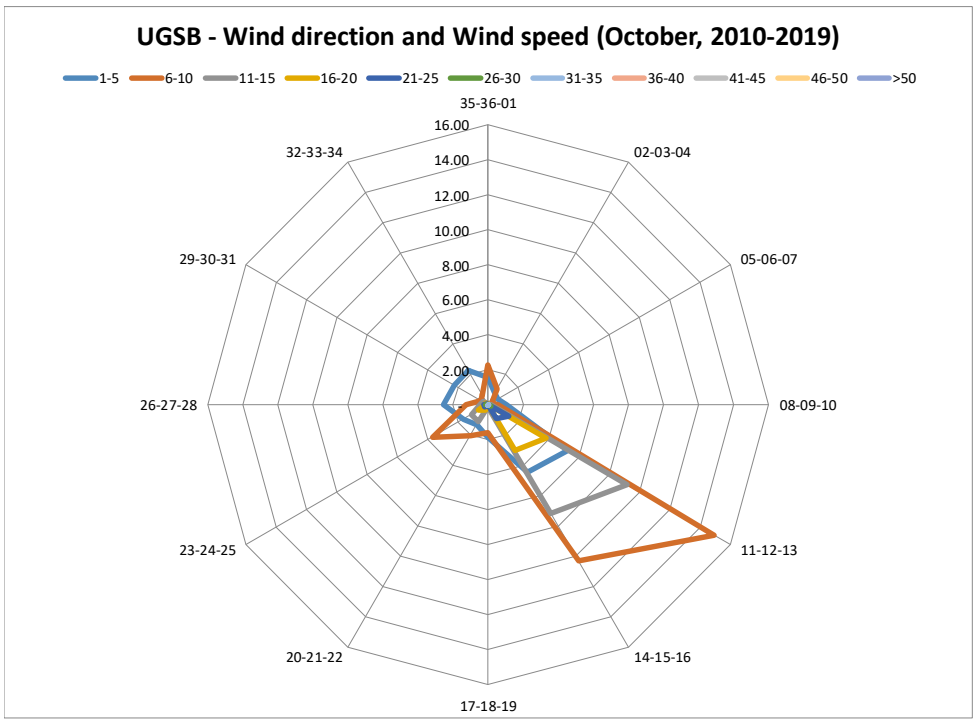
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.56 |
| VARIABLE | 2.19 | 0.14 | 0.01 | - | - | - | - | - | - | - | - | 2.34 |
| 35-36-01 | 1.56 | 2.26 | 0.07 | 0.01 | 0.01 | - | - | - | - | - | - | 3.91 |
| 02-03-04 | 0.77 | 1.04 | 0.05 | - | - | - | - | - | - | - | - | 1.86 |
| 05-06-07 | 0.65 | 0.23 | - | - | - | - | - | - | - | - | - | 0.88 |
| 08-09-10 | 1.04 | 0.54 | 0.16 | 0.03 | 0.01 | - | - | - | - | - | - | 1.77 |
| 11-12-13 | 5.24 | 14.88 | 9.17 | 3.84 | 1.35 | 0.16 | - | - | - | - | - | 34.64 |
| 14-15-16 | 4.47 | 10.32 | 7.17 | 3.02 | 0.91 | 0.01 | - | - | - | - | - | 25.90 |
| 17-18-19 | 1.86 | 1.60 | 0.12 | 0.01 | - | - | - | - | - | - | - | 3.59 |
| 20-21-22 | 1.32 | 2.03 | 1.13 | 0.33 | 0.06 | - | - | - | - | - | - | 4.87 |
| 23-24-25 | 1.63 | 3.69 | 1.11 | 0.64 | 0.21 | 0.06 | 0.01 | - | - | - | - | 7.35 |
| 26-27-28 | 2.55 | 1.28 | 0.48 | 0.18 | 0.23 | 0.14 | - | - | - | - | - | 4.85 |
| 29-30-31 | 2.21 | 0.48 | 0.35 | 0.19 | 0.07 | 0.04 | - | - | - | - | - | 3.34 |
| 32-33-34 | 2.27 | 0.67 | 0.14 | 0.04 | 0.02 | - | - | - | - | - | - | 3.14 |
| TOTAL | 27.75 | 39.16 | 19.95 | 8.28 | 2.86 | 0.43 | 0.01 | - | - | - | - | 100 |




**CALM**
1.56%

**VARIABLE**
2.34%

The prevailing wind directions of 110º-160º frequency of occurrence is 60.54%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 66.91%).

The maximum wind of 31-35 knots is observed within the 230º-250º (frequency of occurrence 0.01%).

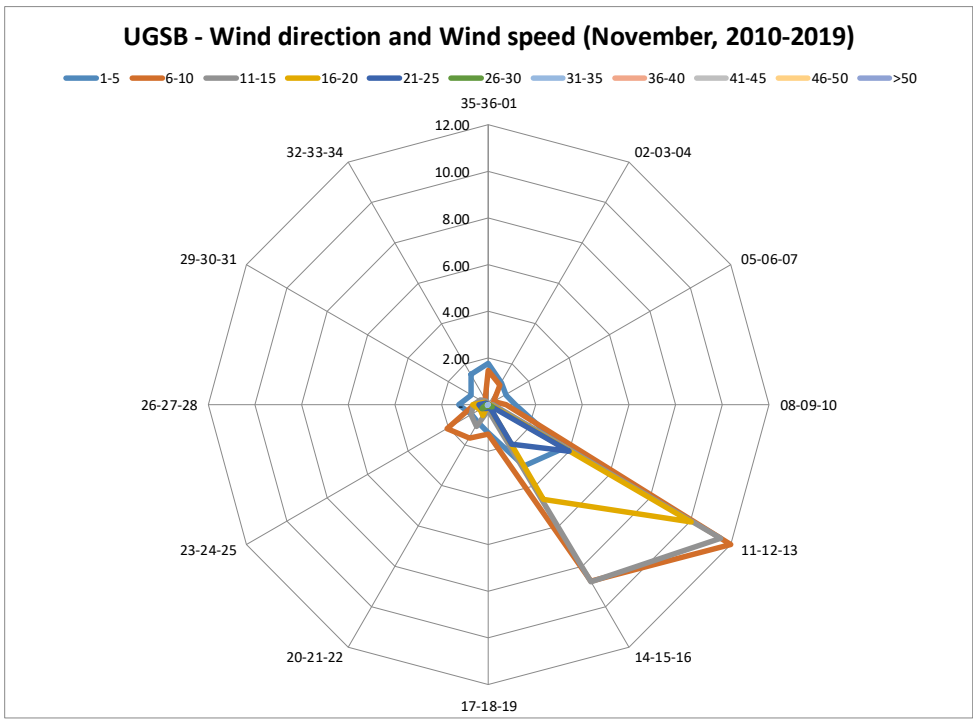
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.27 |
| VARIABLE | 1.91 | 0.26 | 0.01 | - | - | - | - | - | - | - | - | 2.18 |
| 35-36-01 | 1.77 | 1.48 | 0.03 | - | - | - | - | - | - | - | - | 3.28 |
| 02-03-04 | 1.07 | 0.97 | - | - | - | - | - | - | - | - | - | 2.04 |
| 05-06-07 | 0.85 | 0.26 | 0.01 | - | - | - | - | - | - | - | - | 1.11 |
| 08-09-10 | 1.15 | 0.73 | 0.18 | 0.04 | - | - | - | - | - | - | - | 2.10 |
| 11-12-13 | 3.70 | 11.99 | 11.47 | 10.01 | 3.98 | 0.15 | - | - | - | - | - | 41.31 |
| 14-15-16 | 3.03 | 8.73 | 8.78 | 4.67 | 1.94 | 0.05 | - | - | - | - | - | 27.20 |
| 17-18-19 | 1.19 | 1.26 | 0.23 | 0.01 | - | - | - | - | - | - | - | 2.69 |
| 20-21-22 | 0.89 | 1.64 | 1.06 | 0.52 | 0.20 | 0.05 | - | - | - | - | - | 4.35 |
| 23-24-25 | 0.84 | 2.05 | 0.87 | 0.42 | 0.32 | 0.32 | 0.04 | - | - | - | - | 4.86 |
| 26-27-28 | 1.27 | 0.62 | 0.65 | 0.67 | 0.41 | 0.13 | 0.01 | - | - | - | - | 3.76 |
| 29-30-31 | 0.85 | 0.25 | 0.40 | 0.21 | 0.13 | - | - | - | - | - | - | 1.83 |
| 32-33-34 | 1.52 | 0.28 | 0.16 | 0.03 | 0.01 | - | - | - | - | - | - | 2.01 |
| TOTAL | 20.06 | 30.52 | 23.83 | 16.58 | 7.00 | 0.70 | 0.05 | - | - | - | - | 100 |




**CALM**
1.27%

**VARIABLE**
2.18%

The prevailing wind directions of 110º-160º frequency of occurrence is 68.51%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 50.58%).

The maximum wind of 31-35 knots is observed within the 230º-250º (frequency of occurrence 0.04%) and within the 260º-280º (frequency of occurrence 0.01%) sectors.

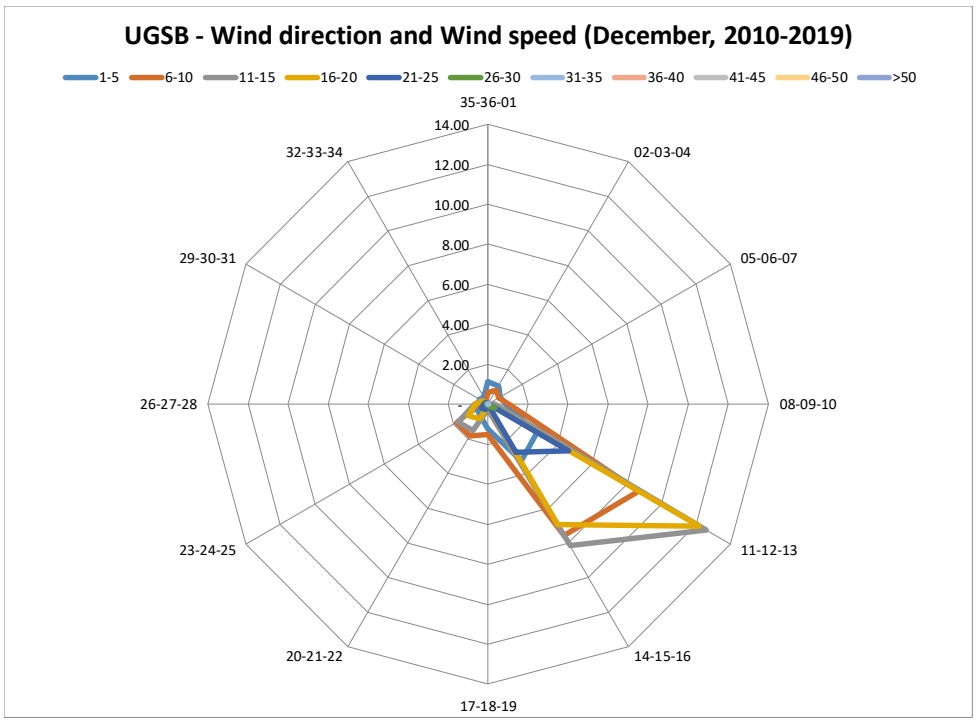
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.50 |
| VARIABLE | 1.95 | 0.20 | 0.01 | - | - | - | - | - | - | - | - | 2.15 |
| 35-36-01 | 1.13 | 0.58 | 0.01 | 0.01 | - | - | - | - | - | - | - | 1.73 |
| 02-03-04 | 1.03 | 0.81 | - | - | - | - | - | - | - | - | - | 1.84 |
| 05-06-07 | 0.70 | 0.60 | 0.01 | - | - | - | - | - | - | - | - | 1.32 |
| 08-09-10 | 0.88 | 1.03 | 0.33 | 0.02 | 0.01 | - | - | - | - | - | - | 2.27 |
| 11-12-13 | 2.82 | 8.67 | 12.60 | 12.19 | 4.64 | 0.38 | - | - | - | - | - | 41.31 |
| 14-15-16 | 3.27 | 7.59 | 8.17 | 6.93 | 2.77 | 0.12 | - | - | - | - | - | 28.85 |
| 17-18-19 | 1.22 | 1.50 | 0.26 | 0.03 | 0.01 | - | - | - | - | - | - | 3.01 |
| 20-21-22 | 0.72 | 1.82 | 1.54 | 0.83 | 0.29 | 0.04 | - | - | - | - | - | 5.23 |
| 23-24-25 | 0.61 | 1.81 | 1.73 | 1.17 | 0.39 | 0.05 | - | - | - | - | - | 5.77 |
| 26-27-28 | 0.38 | 0.48 | 0.68 | 0.63 | 0.20 | 0.06 | 0.02 | - | - | - | - | 2.45 |
| 29-30-31 | 0.50 | 0.25 | 0.38 | 0.32 | 0.18 | 0.11 | - | - | - | - | - | 1.73 |
| 32-33-34 | 0.43 | 0.22 | 0.10 | 0.03 | 0.05 | - | - | - | - | - | - | 0.83 |
| TOTAL | 15.64 | 25.56 | 25.82 | 22.15 | 8.54 | 0.77 | 0.02 | - | - | - | - | 100 |




**CALM**
1.50%

**VARIABLE**
2.15%

The prevailing wind directions of 110º-160º frequency of occurrence is 70.16%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze (frequency of occurrence 41.20%) and wind speed of 11-20 knots, which is the Moderate and Fresh breeze (frequency of occurrence 47.97%) according to “Beaufort wind force scale”.

The maximum wind of 31-35 knots is observed within the 260º-280º sector (frequency of occurrence 0.02%).

**AERONAUTICAL CLIMATOLOGY**

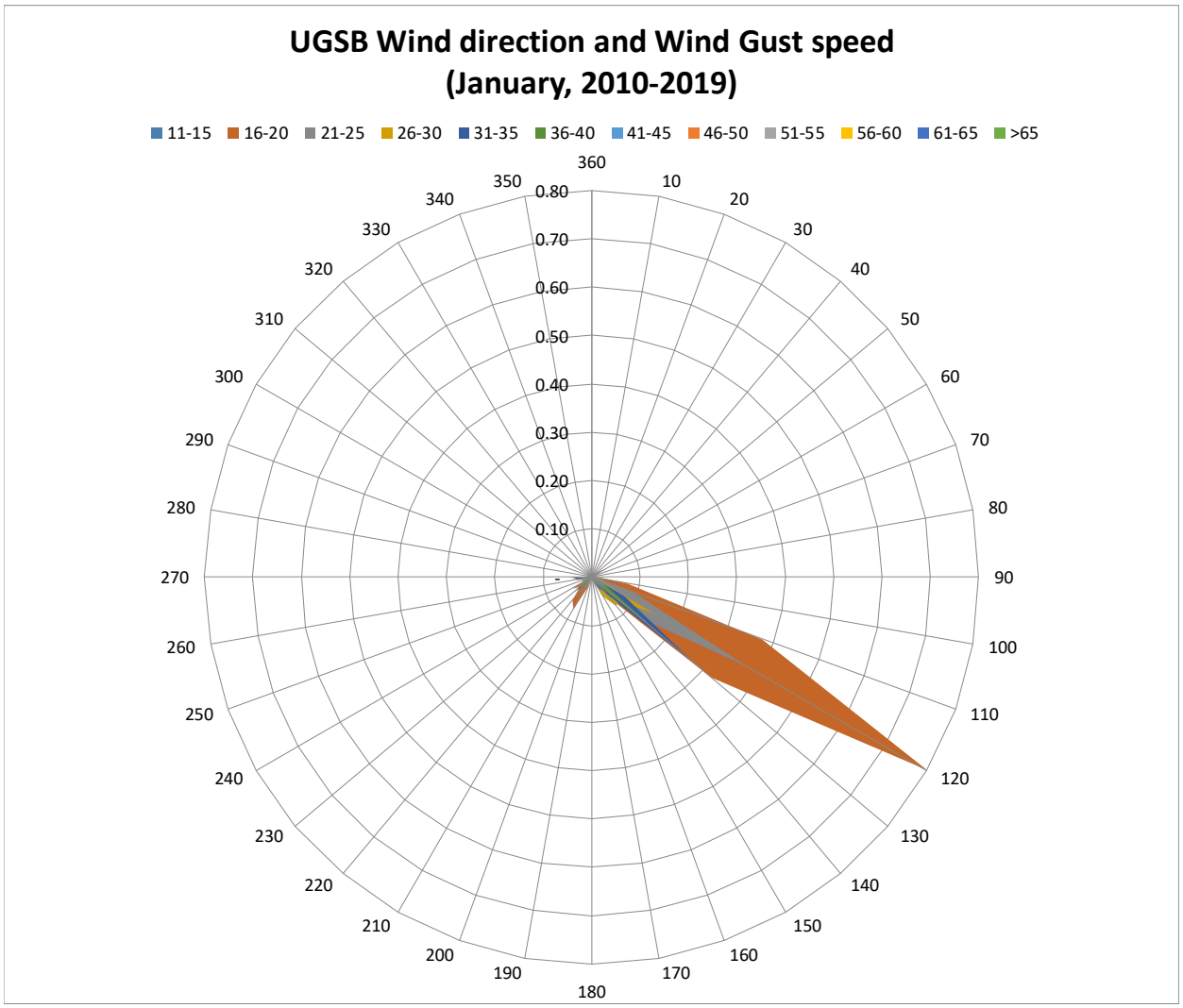
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 60 | - | 0.04 | 0.02 | 0.02 | - | - | - | - | - | 0.07 |
| 70 | - | 0.01 | 0.01 | - | - | - | - | - | - | 0.02 |
| 80 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 90 | - | 0.02 | 0.01 | - | - | - | - | - | - | 0.02 |
| 100 | - | 0.08 | 0.02 | 0.02 | - | - | - | - | - | 0.11 |
| 110 | - | 0.38 | 0.09 | 0.02 | 0.01 | - | - | - | - | 0.50 |
| 120 | - | 0.80 | 0.37 | 0.15 | 0.08 | 0.04 | 0.04 | - | - | 1.48 |
| 130 | - | 0.32 | 0.13 | 0.08 | 0.28 | 0.17 | 0.02 | - | - | 1.00 |
| 140 | - | 0.05 | 0.02 | 0.08 | 0.04 | 0.02 | - | - | - | 0.22 |
| 150 | - | - | - | 0.05 | 0.02 | 0.01 | - | - | - | 0.08 |
| 160 | - | - | - | 0.01 | 0.01 | - | - | - | - | 0.02 |
| 170 | - | - | 0.01 | - | 0.01 | - | - | - | - | 0.02 |
| 180 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 190 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 200 | - | 0.02 | - | - | - | - | - | 0.01 | - | 0.03 |
| 210 | - | 0.08 | 0.02 | - | 0.01 | - | 0.01 | - | - | 0.11 |
| 220 | - | 0.06 | 0.01 | 0.02 | 0.02 | 0.03 | 0.01 | 0.01 | - | 0.16 |
| 230 | - | 0.03 | 0.04 | 0.02 | 0.05 | 0.03 | - | - | - | 0.17 |
| 240 | - | 0.05 | 0.02 | 0.02 | 0.01 | 0.02 | - | - | - | 0.10 |
| 250 | - | 0.01 | 0.02 | - | - | 0.02 | - | - | - | 0.05 |
| 260 | - | 0.03 | 0.01 | - | 0.02 | 0.01 | 0.02 | - | - | 0.08 |
| 270 | - | 0.04 | 0.02 | - | 0.05 | 0.03 | 0.02 | - | - | 0.15 |
| 280 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | 0.01 | - | - | 0.01 |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | 0.01 | - | - | - | 0.01 |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 2.06 | 0.81 | 0.48 | 0.59 | 0.38 | 0.12 | 0.02 | - | 4.45 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.14%.

The maximum wind speed (46-50 knots) corresponds to the Strong gale and Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.02%).

The directions of maximum wind gusts are 200º and 220º.

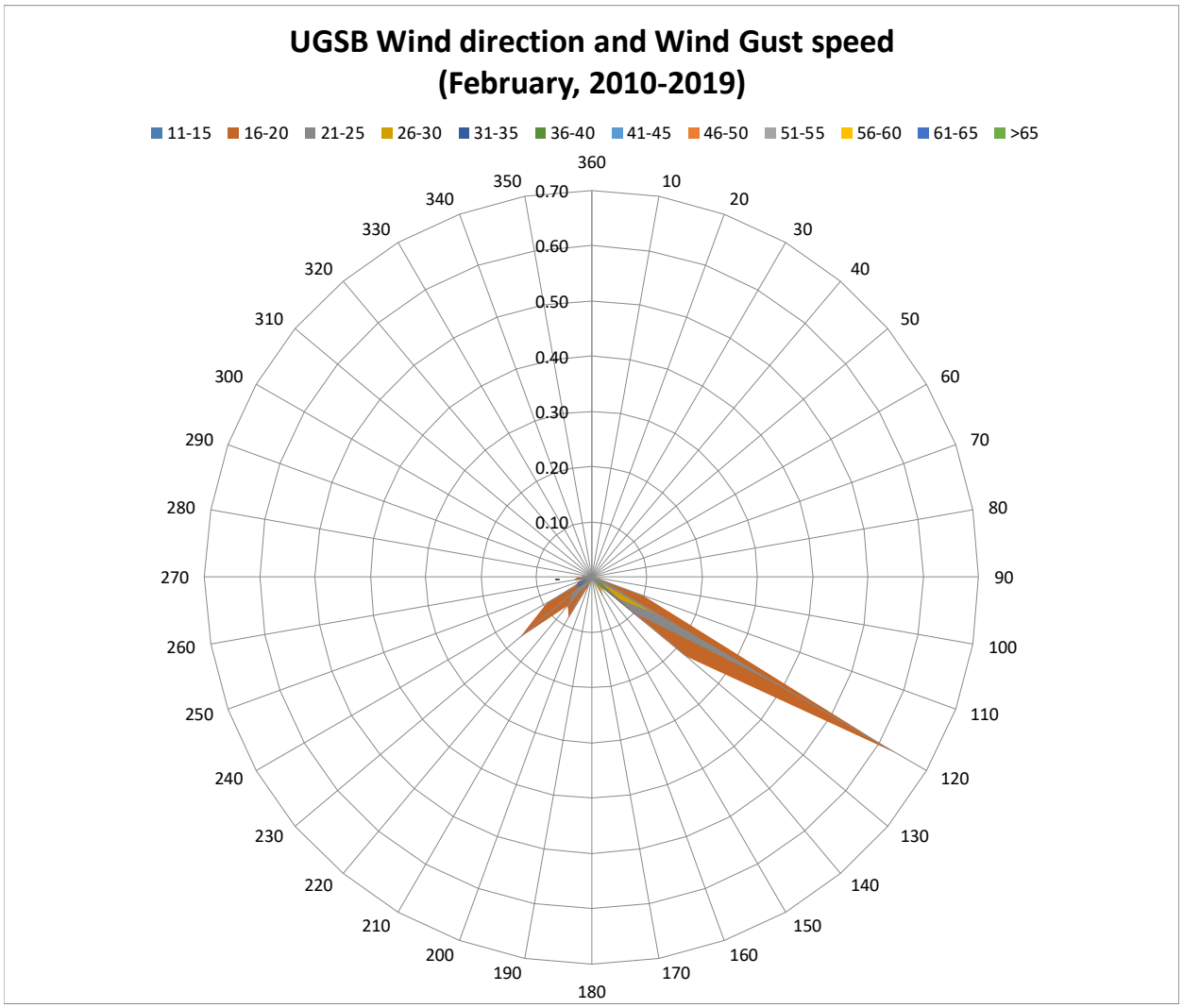
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12192 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | 0.02 | 0.01 | - | - | - | - | - | - | 0.03 |
| 110 | - | 0.10 | 0.03 | 0.01 | - | - | - | - | - | 0.14 |
| 120 | - | 0.64 | 0.40 | 0.14 | 0.02 | 0.02 | - | - | - | 1.20 |
| 130 | 0.01 | 0.22 | 0.10 | 0.06 | 0.13 | 0.07 | - | - | - | 0.58 |
| 140 | - | 0.01 | - | 0.03 | 0.02 | 0.02 | - | - | - | 0.07 |
| 150 | - | - | - | 0.04 | - | - | - | - | - | 0.04 |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | 0.01 | 0.01 | - | - | - | - | - | - | 0.02 |
| 190 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 200 | 0.01 | 0.02 | - | - | - | - | - | - | - | 0.03 |
| 210 | - | 0.08 | 0.01 | 0.01 | - | - | - | - | - | 0.10 |
| 220 | - | 0.07 | 0.07 | 0.04 | 0.01 | - | - | - | - | 0.19 |
| 230 | - | 0.17 | 0.04 | 0.01 | 0.03 | 0.01 | - | - | - | 0.25 |
| 240 | - | 0.09 | 0.02 | 0.03 | 0.03 | 0.01 | - | - | - | 0.18 |
| 250 | - | 0.02 | 0.01 | 0.02 | 0.03 | - | - | - | - | 0.07 |
| 260 | - | 0.03 | 0.02 | 0.01 | 0.01 | - | - | - | - | 0.07 |
| 270 | - | 0.03 | 0.02 | 0.01 | 0.02 | - | - | - | - | 0.07 |
| 280 | - | 0.01 | 0.02 | - | - | - | - | - | - | 0.03 |
| 290 | - | 0.01 | - | 0.01 | - | 0.01 | - | - | - | 0.03 |
| 300 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.02 | 1.52 | 0.75 | 0.40 | 0.28 | 0.13 | - | - | - | 3.09 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (36-40 knots) corresponds to the Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.13%).

The directions of maximum wind gusts are 120º, 130º, 140º, 230, 240º and 290º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

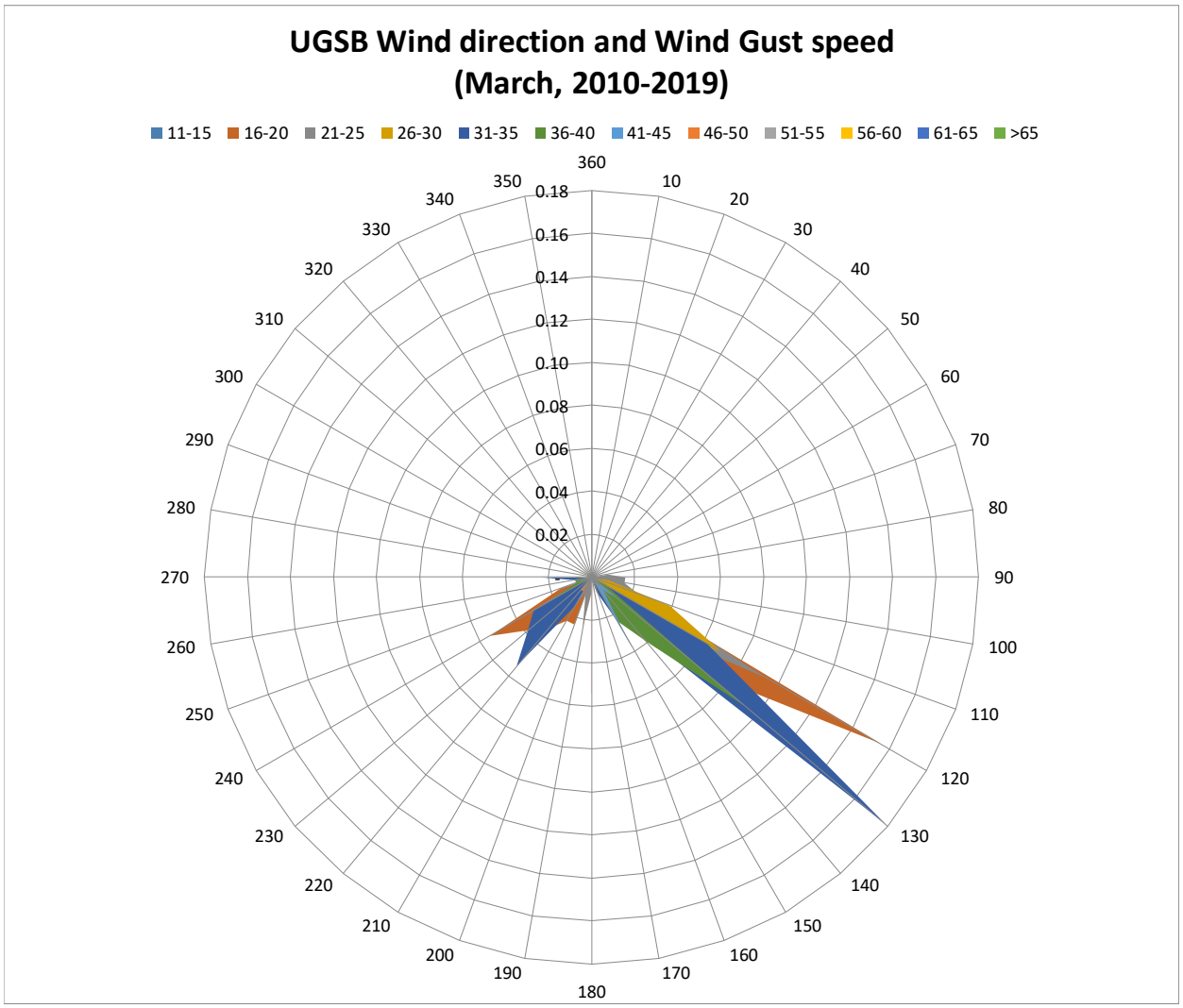
AERODROME: UGSB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 80 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 90 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 100 | - | 0.01 | 0.02 | 0.01 | - | - | - | - | - | 0.03 |
| 110 | - | 0.02 | 0.02 | 0.04 | - | - | - | - | - | 0.08 |
| 120 | 0.01 | 0.16 | 0.09 | 0.07 | 0.06 | 0.01 | - | - | - | 0.40 |
| 130 | 0.01 | 0.07 | 0.04 | 0.04 | 0.18 | 0.09 | 0.02 | - | - | 0.44 |
| 140 | - | - | 0.01 | 0.04 | 0.03 | 0.04 | 0.01 | - | - | 0.12 |
| 150 | - | 0.01 | - | - | 0.02 | 0.02 | 0.04 | - | - | 0.09 |
| 160 | - | 0.01 | 0.01 | - | 0.01 | - | - | - | - | 0.02 |
| 170 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 180 | - | 0.05 | 0.01 | - | - | - | - | - | - | 0.06 |
| 190 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 200 | - | 0.02 | 0.01 | - | - | - | - | - | - | 0.03 |
| 210 | - | 0.02 | 0.02 | - | 0.02 | - | - | 0.01 | - | 0.06 |
| 220 | - | 0.03 | 0.05 | 0.04 | 0.05 | - | 0.02 | 0.01 | 0.01 | 0.21 |
| 230 | - | 0.04 | 0.01 | 0.03 | 0.04 | - | - | - | - | 0.12 |
| 240 | - | 0.05 | 0.04 | 0.02 | 0.03 | 0.02 | - | - | - | 0.16 |
| 250 | - | 0.02 | 0.01 | 0.01 | - | 0.01 | 0.02 | - | - | 0.05 |
| 260 | - | - | 0.01 | - | 0.01 | 0.01 | - | - | - | 0.02 |
| 270 | - | - | - | 0.01 | 0.02 | - | - | - | - | 0.03 |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.02 | 0.51 | 0.37 | 0.31 | 0.47 | 0.20 | 0.10 | 0.02 | 0.01 | 2.01 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.13%.

The maximum wind speed (>50 knots) corresponds to the Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.01%).

The direction of maximum wind gusts is 220º.

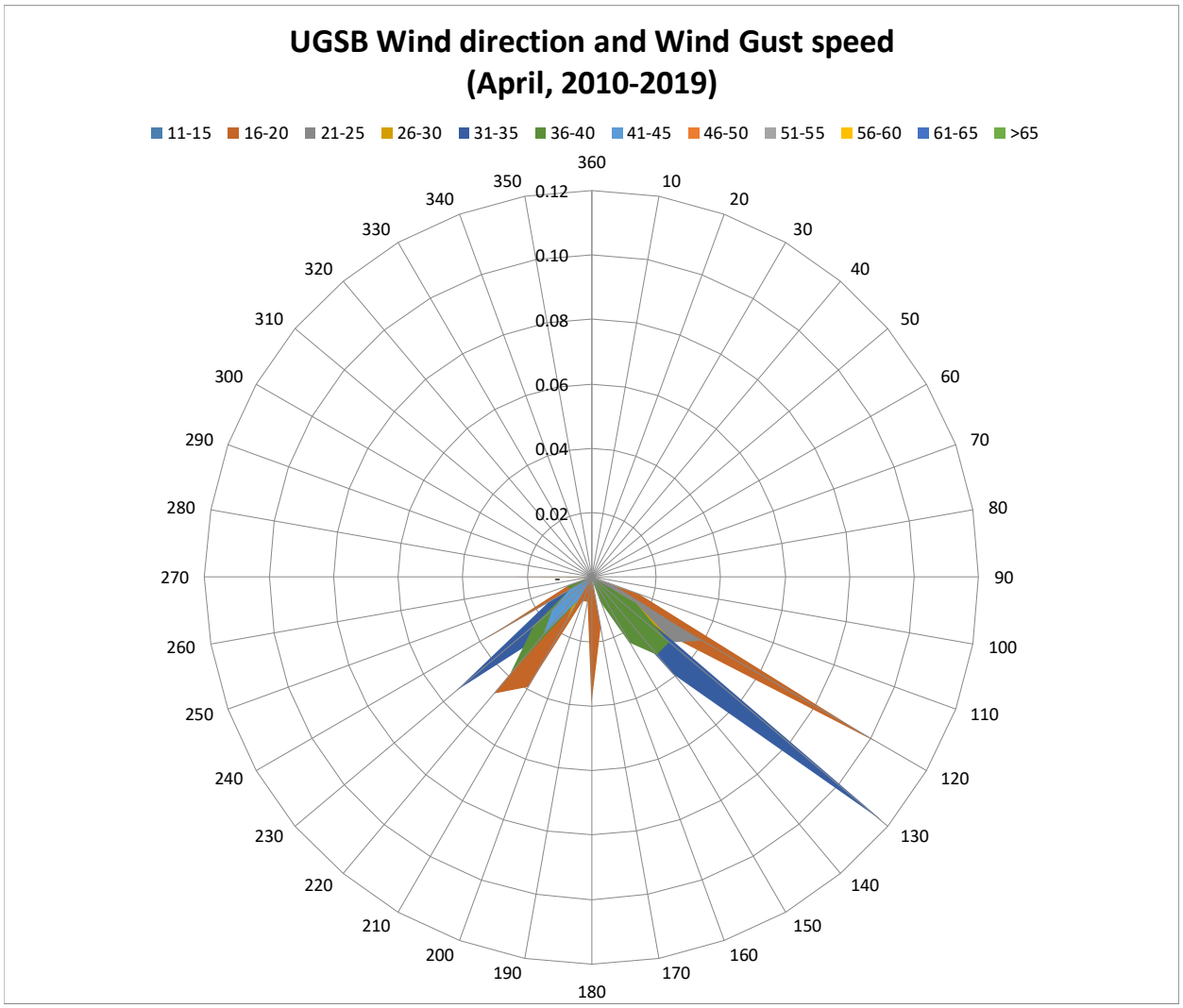
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - |
| 110 | - | 0.02 | 0.01 | - | - | - | - | - | - | 0.02 |
| 120 | - | 0.10 | 0.04 | 0.02 | 0.01 | 0.02 | - | - | - | 0.18 |
| 130 | - | 0.02 | 0.03 | 0.04 | 0.12 | 0.03 | - | - | - | 0.24 |
| 140 | - | - | 0.01 | 0.01 | 0.04 | 0.03 | - | - | - | 0.09 |
| 150 | - | - | 0.01 | 0.02 | 0.01 | 0.02 | - | - | - | 0.05 |
| 160 | - | - | - | - | - | 0.01 | - | - | - | 0.01 |
| 170 | - | 0.02 | 0.01 | - | - | - | - | - | - | 0.02 |
| 180 | - | 0.04 | - | - | - | - | - | - | - | 0.04 |
| 190 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 200 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 210 | - | 0.04 | - | 0.02 | - | 0.01 | 0.01 | - | - | 0.07 |
| 220 | - | 0.05 | 0.01 | 0.01 | 0.02 | 0.04 | 0.02 | - | - | 0.15 |
| 230 | - | - | 0.01 | 0.02 | 0.05 | 0.02 | 0.02 | - | - | 0.13 |
| 240 | - | 0.04 | 0.02 | 0.01 | 0.02 | 0.01 | 0.01 | - | - | 0.09 |
| 250 | 0.01 | 0.01 | - | - | - | 0.01 | - | - | - | 0.02 |
| 260 | - | - | - | - | - | - | - | - | - | - |
| 270 | - | 0.02 | 0.01 | 0.02 | - | - | - | - | - | 0.05 |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.01 | 0.37 | 0.14 | 0.15 | 0.27 | 0.20 | 0.05 | - | - | 1.18 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.05%.

The maximum wind speed (41-45 knots) corresponds to the Strong gale according to “Beaufort wind force scale” (frequency of occurrence – 0.05%).

The directions of maximum wind gusts are $210^0$, $220^0$, 230º and 240º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

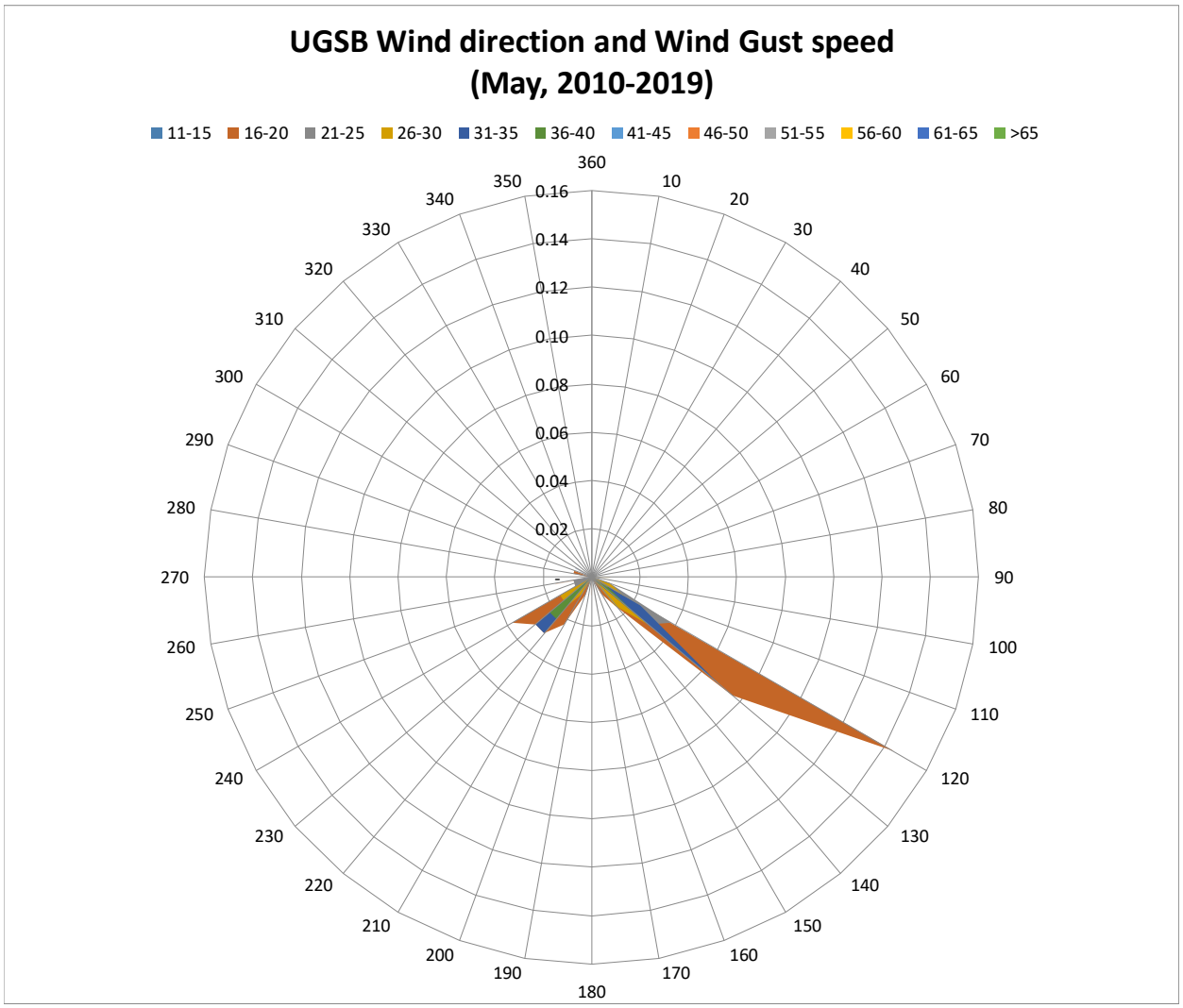
AERODROME: UGSB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | 0.02 | 0.01 | - | - | - | - | - | 0.03 |
| 100 | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | 0.01 | 0.01 | - | - | - | - | - | 0.02 |
| 120 | - | 0.14 | 0.04 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | - | 0.24 |
| 130 | - | 0.08 | 0.03 | 0.03 | 0.07 | 0.02 | - | - | - | 0.23 |
| 140 | - | 0.02 | - | 0.02 | - | - | 0.01 | 0.01 | - | 0.05 |
| 150 | - | 0.01 | 0.02 | - | - | - | - | - | - | 0.02 |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 180 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 210 | - | 0.02 | - | 0.01 | - | - | - | 0.01 | - | 0.04 |
| 220 | - | 0.03 | 0.02 | 0.02 | 0.03 | 0.02 | - | - | - | 0.11 |
| 230 | - | 0.03 | 0.01 | 0.02 | 0.03 | 0.02 | - | - | - | 0.11 |
| 240 | - | 0.04 | 0.01 | 0.02 | - | - | - | - | - | 0.06 |
| 250 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 260 | - | 0.02 | 0.01 | - | 0.01 | - | - | - | - | 0.03 |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 290 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 300 | - | - | 0.01 | - | 0.01 | - | - | - | - | 0.02 |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.41 | 0.18 | 0.13 | 0.17 | 0.08 | 0.02 | 0.02 | - | 1.00 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.04%.

The maximum wind speed (46-50 knots) corresponds to the Strong gale and Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.02%).

The directions of maximum wind gusts are 120º, 140º and 210º.

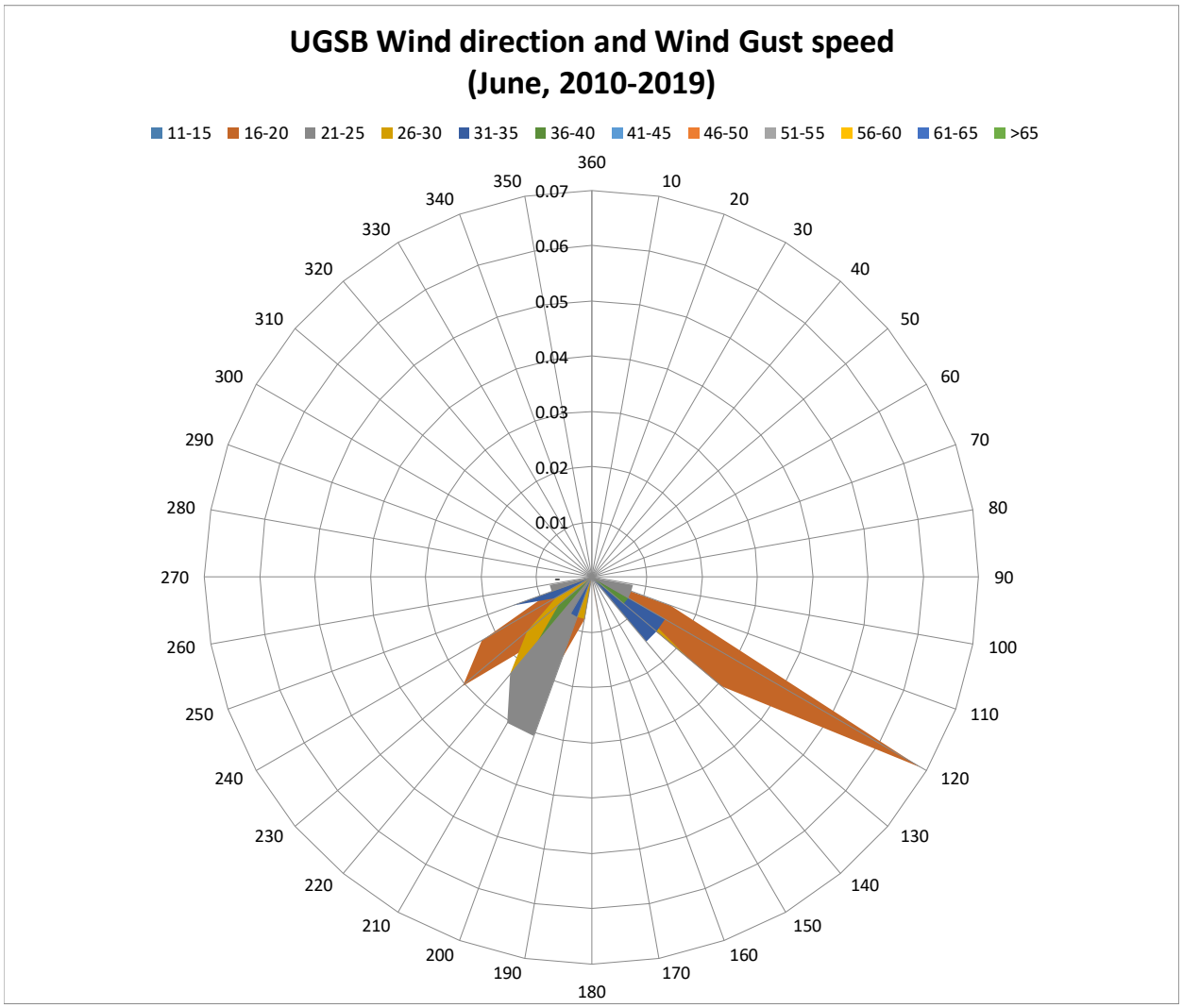
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 110 | - | 0.02 | 0.01 | - | - | - | - | - | - | 0.02 |
| 120 | 0.01 | 0.07 | 0.01 | 0.01 | 0.02 | 0.01 | - | - | - | 0.11 |
| 130 | - | 0.03 | - | 0.02 | 0.02 | 0.01 | - | - | - | 0.08 |
| 140 | - | - | 0.02 | - | 0.02 | - | - | - | - | 0.04 |
| 150 | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | 0.01 | - | 0.01 | - | - | - | - | - | 0.02 |
| 200 | - | 0.02 | 0.03 | 0.01 | 0.01 | - | - | - | - | 0.06 |
| 210 | - | 0.02 | 0.03 | - | 0.01 | - | - | - | - | 0.05 |
| 220 | - | 0.02 | 0.02 | 0.02 | - | 0.02 | - | - | - | 0.08 |
| 230 | - | 0.03 | 0.01 | 0.02 | - | 0.01 | - | - | - | 0.06 |
| 240 | - | 0.02 | - | 0.01 | 0.01 | - | - | - | - | 0.04 |
| 250 | - | 0.01 | 0.01 | 0.01 | 0.02 | - | - | - | - | 0.04 |
| 260 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.01 | 0.24 | 0.15 | 0.10 | 0.08 | 0.04 | - | - | - | 0.62 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (36-40 knots) corresponds to the Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.04%).

The directions of maximum wind gusts are 120º, 130º, 220º and 230º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

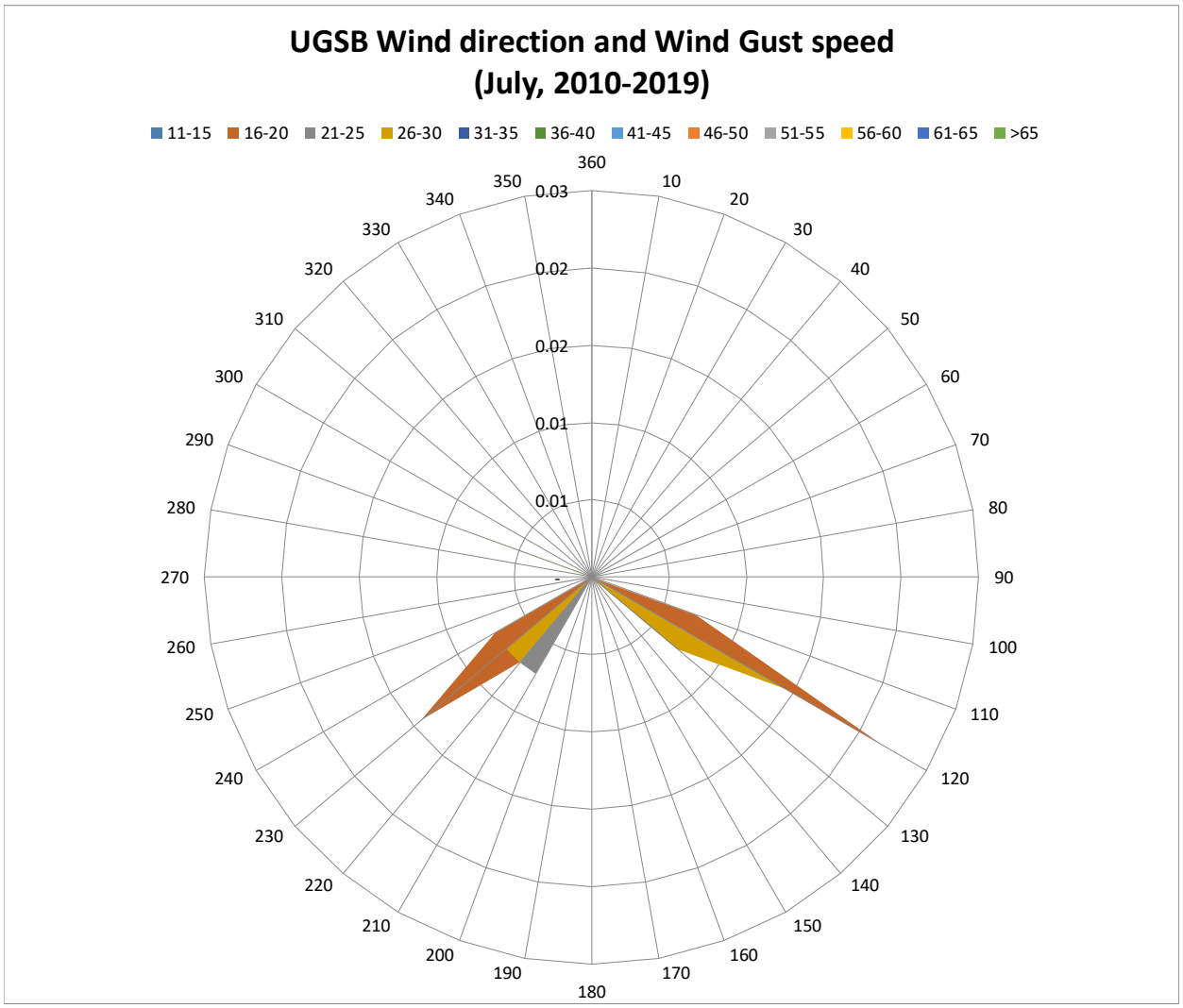
AERODROME: UGSB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 60 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 70 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - |
| 110 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 120 | - | 0.02 | - | 0.01 | - | 0.01 | - | - | - | 0.05 |
| 130 | - | - | - | 0.01 | 0.01 | - | - | - | - | 0.01 |
| 140 | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 220 | - | 0.01 | 0.01 | 0.01 | - | - | - | - | - | 0.02 |
| 230 | - | 0.01 | - | 0.01 | - | - | - | - | - | 0.02 |
| 240 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 250 | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.06 | 0.04 | 0.04 | 0.01 | 0.01 | - | - | - | 0.17 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (36-40 knots) corresponds to the strong breeze and the Near gale according to "Beaufort wind force scale" (frequency of occurrence – 0.01%).

The directions of maximum wind gusts are 120º.

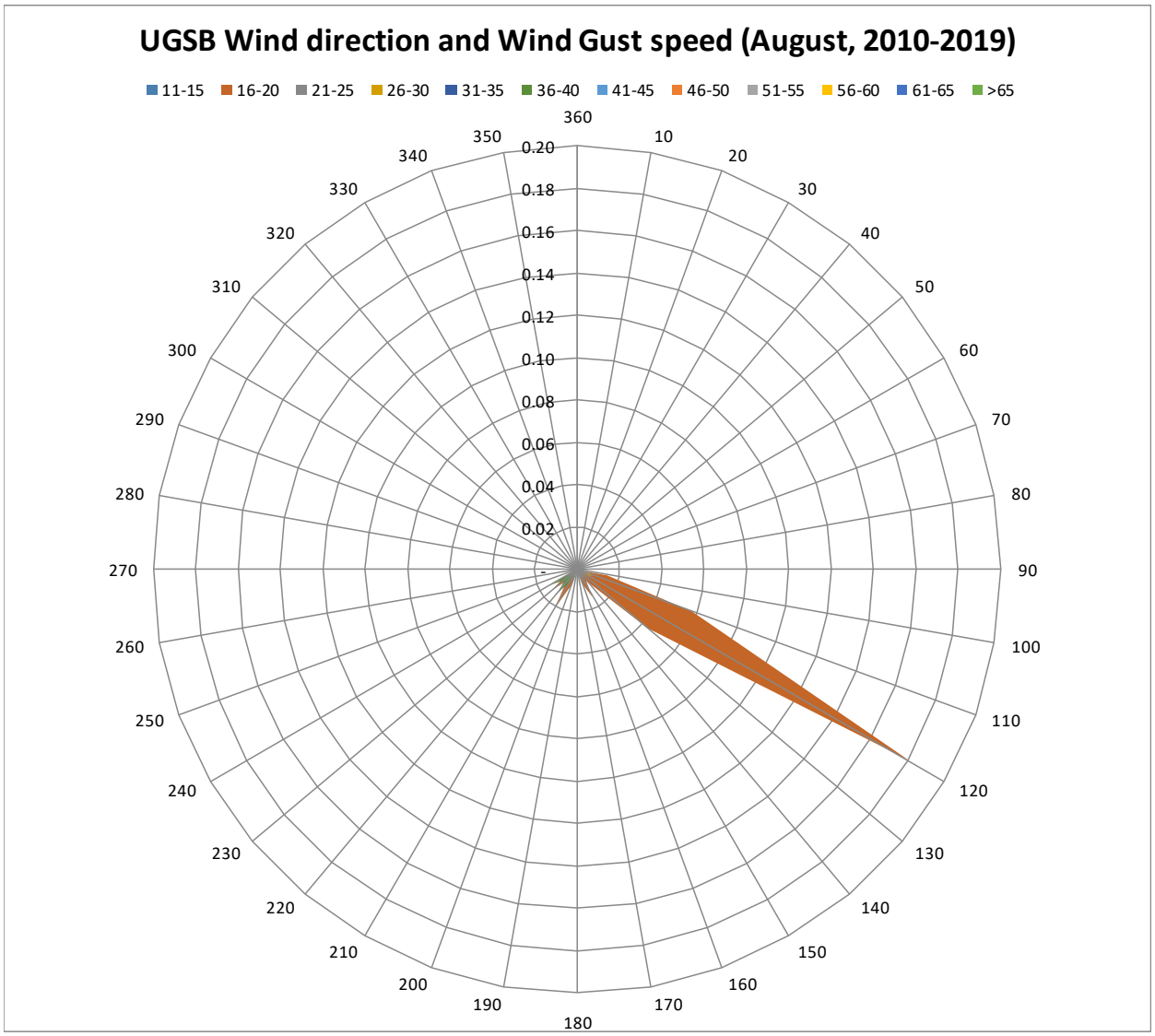
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 110 | - | 0.06 | - | 0.01 | - | - | - | - | - | 0.06 |
| 120 | - | 0.18 | - | 0.01 | - | - | - | - | - | 0.19 |
| 130 | - | 0.04 | - | - | - | - | - | - | - | 0.04 |
| 140 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 150 | - | 0.01 | 0.01 | - | - | - | - | - | - | 0.03 |
| 160 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 170 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 210 | - | 0.02 | - | - | - | 0.01 | - | - | - | 0.03 |
| 220 | - | 0.01 | 0.01 | - | - | 0.01 | - | - | - | 0.04 |
| 230 | - | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | - | - | - | 0.06 |
| 240 | - | 0.01 | 0.01 | 0.01 | - | 0.01 | - | - | - | 0.04 |
| 250 | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | - | - | 0.01 | - | - | - | 0.01 |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.38 | 0.06 | 0.04 | 0.02 | 0.05 | - | - | - | 0.56 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (36-40 knots) corresponds to Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.05%).

The directions of maximum wind gusts are 210º, 220º, 230º, 240º and 260º.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

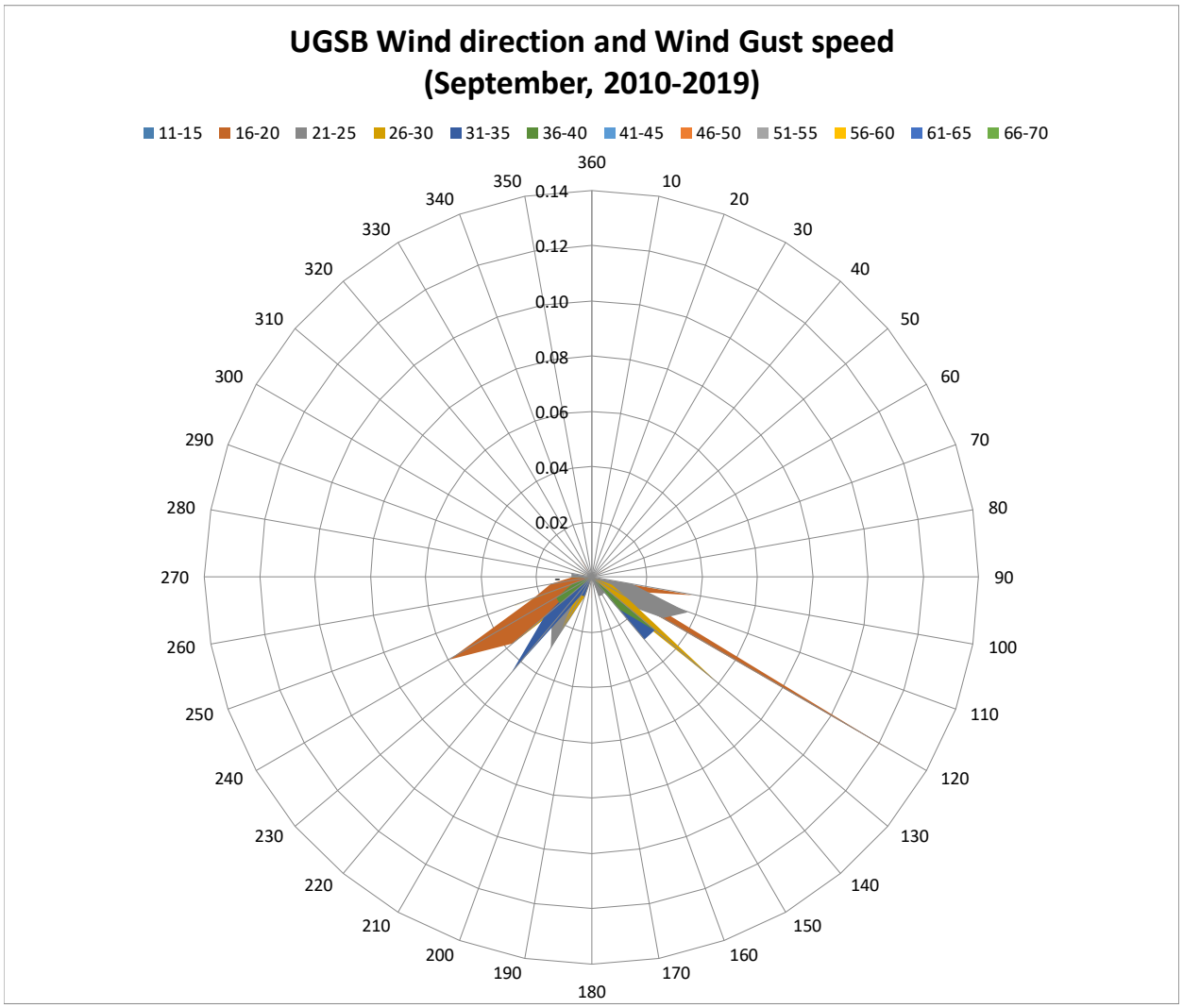
AERODROME: UGSB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | 0.04 | 0.01 | - | - | - | - | - | - | 0.05 |
| 110 | - | 0.01 | 0.04 | 0.01 | - | - | - | - | - | 0.06 |
| 120 | - | 0.13 | 0.03 | 0.01 | - | - | - | - | - | 0.17 |
| 130 | - | - | 0.01 | 0.06 | 0.03 | 0.03 | - | - | - | 0.13 |
| 140 | - | - | 0.01 | 0.01 | 0.03 | 0.01 | - | - | - | 0.06 |
| 150 | - | 0.01 | 0.01 | - | - | - | - | - | - | 0.01 |
| 160 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | 0.01 | 0.01 | 0.01 | 0.01 | - | - | - | - | 0.03 |
| 210 | - | - | 0.03 | 0.02 | 0.01 | - | - | - | - | 0.06 |
| 220 | - | 0.01 | 0.02 | 0.01 | 0.04 | - | 0.01 | - | - | 0.09 |
| 230 | - | 0.04 | - | 0.04 | 0.02 | 0.01 | - | - | - | 0.11 |
| 240 | - | 0.06 | 0.01 | - | 0.01 | 0.01 | - | - | - | 0.09 |
| 250 | - | 0.02 | - | 0.03 | - | 0.01 | - | - | - | 0.06 |
| 260 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 270 | - | 0.01 | 0.01 | 0.01 | - | 0.01 | 0.01 | - | - | 0.04 |
| 280 | - | - | 0.01 | - | 0.01 | - | - | - | - | 0.01 |
| 290 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.36 | 0.21 | 0.21 | 0.16 | 0.09 | 0.01 | - | - | 1.04 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.01%.

The maximum wind speed (41-45 knots) corresponds to the Strong gale according to “Beaufort wind force scale” (frequency of occurrence – 0.01%).

The direction of maximum wind gusts are 220º and 270º.

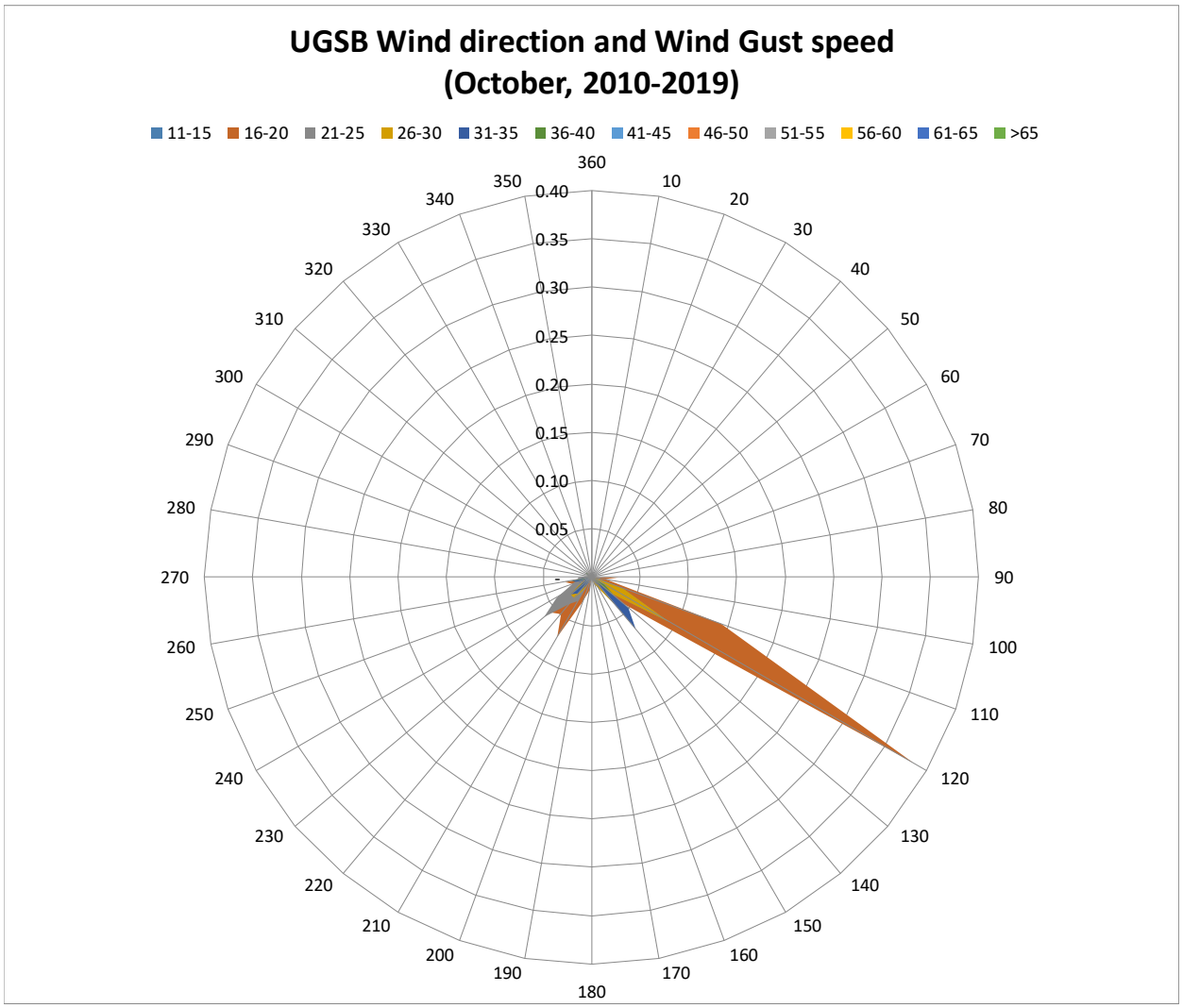
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | 0.03 | 0.01 | - | - | - | - | - | - | 0.04 |
| 100 | - | 0.01 | - | 0.01 | 0.01 | - | - | - | - | 0.03 |
| 110 | - | 0.14 | 0.04 | 0.04 | - | - | - | - | - | 0.21 |
| 120 | 0.01 | 0.38 | 0.09 | 0.09 | - | 0.01 | - | - | - | 0.59 |
| 130 | - | 0.04 | 0.03 | 0.03 | 0.05 | 0.03 | - | - | - | 0.18 |
| 140 | - | 0.01 | 0.01 | 0.04 | 0.07 | - | - | - | - | 0.13 |
| 150 | - | - | 0.01 | 0.01 | - | - | - | - | - | 0.02 |
| 160 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 200 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 210 | - | 0.07 | 0.03 | 0.01 | 0.01 | - | - | - | - | 0.12 |
| 220 | - | 0.05 | 0.04 | 0.03 | 0.02 | - | - | - | - | 0.13 |
| 230 | - | 0.06 | 0.06 | 0.03 | 0.03 | 0.02 | 0.01 | - | - | 0.21 |
| 240 | - | 0.01 | 0.04 | 0.01 | 0.01 | - | 0.01 | - | - | 0.08 |
| 250 | - | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | - | - | - | 0.07 |
| 260 | - | 0.03 | 0.01 | - | 0.02 | 0.03 | 0.01 | - | - | 0.10 |
| 270 | - | - | 0.01 | 0.01 | 0.01 | - | - | - | - | 0.03 |
| 280 | - | 0.01 | 0.01 | - | - | - | 0.01 | - | - | 0.02 |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | 0.01 | 0.01 | - | - | - | 0.01 |
| 310 | - | - | - | - | - | 0.01 | - | - | - | 0.01 |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | 0.01 | - | - | - | 0.01 |
| TOTAL | 0.01 | 0.91 | 0.41 | 0.33 | 0.24 | 0.12 | 0.03 | - | - | 2.04 |




The strong wind (wind gust ≥41 knots) – 0.03%).

The maximum wind speed (41-45 knots) corresponds to the Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.03%).

The directions of maximum wind gusts are 230º, 240º, 260º and 280º.

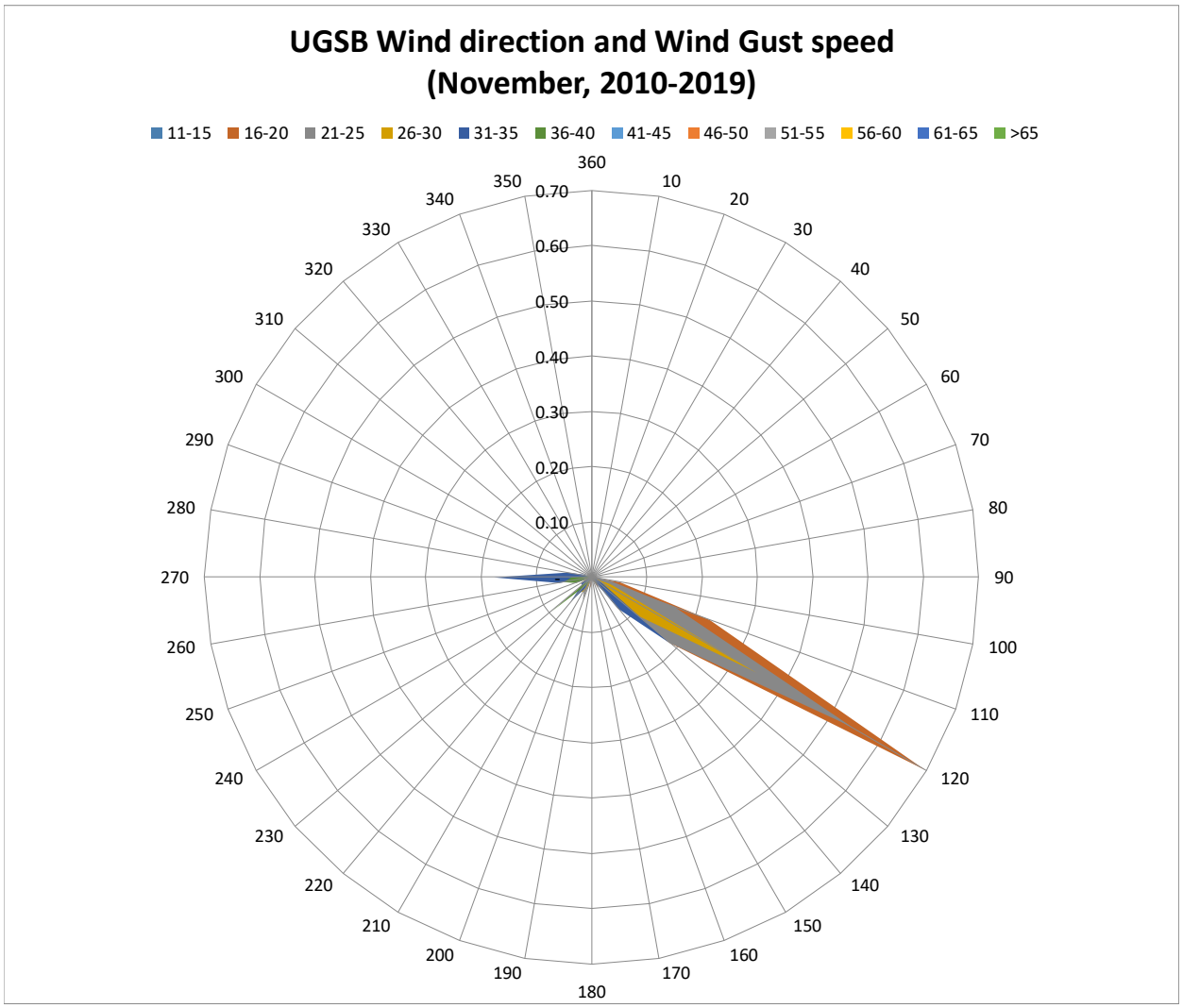
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | 0.01 | 0.02 | - | - | - | - | - | - | 0.03 |
| 90 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 100 | - | 0.05 | 0.04 | - | - | - | - | - | - | 0.09 |
| 110 | 0.01 | 0.23 | 0.16 | 0.04 | 0.01 | - | - | - | - | 0.44 |
| 120 | 0.01 | 0.70 | 0.54 | 0.34 | 0.02 | - | - | - | - | 1.61 |
| 130 | - | 0.18 | 0.18 | 0.11 | 0.18 | 0.01 | - | - | - | 0.67 |
| 140 | - | 0.01 | 0.03 | 0.01 | 0.07 | - | - | - | - | 0.13 |
| 150 | - | 0.02 | 0.01 | 0.01 | - | - | - | - | - | 0.05 |
| 160 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | 0.01 | 0.02 | - | - | - | - | - | - | 0.04 |
| 190 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 200 | - | - | 0.04 | 0.01 | - | - | - | - | - | 0.06 |
| 210 | - | 0.01 | 0.03 | 0.03 | 0.02 | 0.01 | - | - | - | 0.11 |
| 220 | - | - | 0.01 | 0.04 | 0.06 | 0.02 | 0.01 | - | - | 0.13 |
| 230 | - | 0.01 | 0.01 | 0.03 | 0.02 | 0.10 | 0.02 | - | - | 0.19 |
| 240 | - | 0.02 | 0.02 | - | 0.02 | - | - | - | - | 0.07 |
| 250 | - | 0.01 | 0.01 | - | - | 0.03 | - | - | - | 0.04 |
| 260 | - | - | 0.01 | 0.03 | 0.06 | 0.05 | 0.01 | - | - | 0.15 |
| 270 | - | - | 0.01 | 0.11 | 0.18 | 0.04 | - | - | - | 0.33 |
| 280 | - | - | 0.01 | 0.02 | 0.04 | 0.01 | 0.01 | - | - | 0.09 |
| 290 | - | - | - | - | 0.01 | 0.01 | - | - | - | 0.02 |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | 0.01 | - | 0.01 | - | - | - | - | - | 0.01 |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.01 | 1.30 | 1.17 | 0.80 | 0.70 | 0.27 | 0.04 | - | - | 4.31 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.04%.

The maximum wind speed (41-45 knots) corresponds to the Strong gale according to “Beaufort wind force scale” (frequency of occurrence – 0.04%).

The directions of maximum wind gusts are 220º, 230º, 260º and 280$^0$.

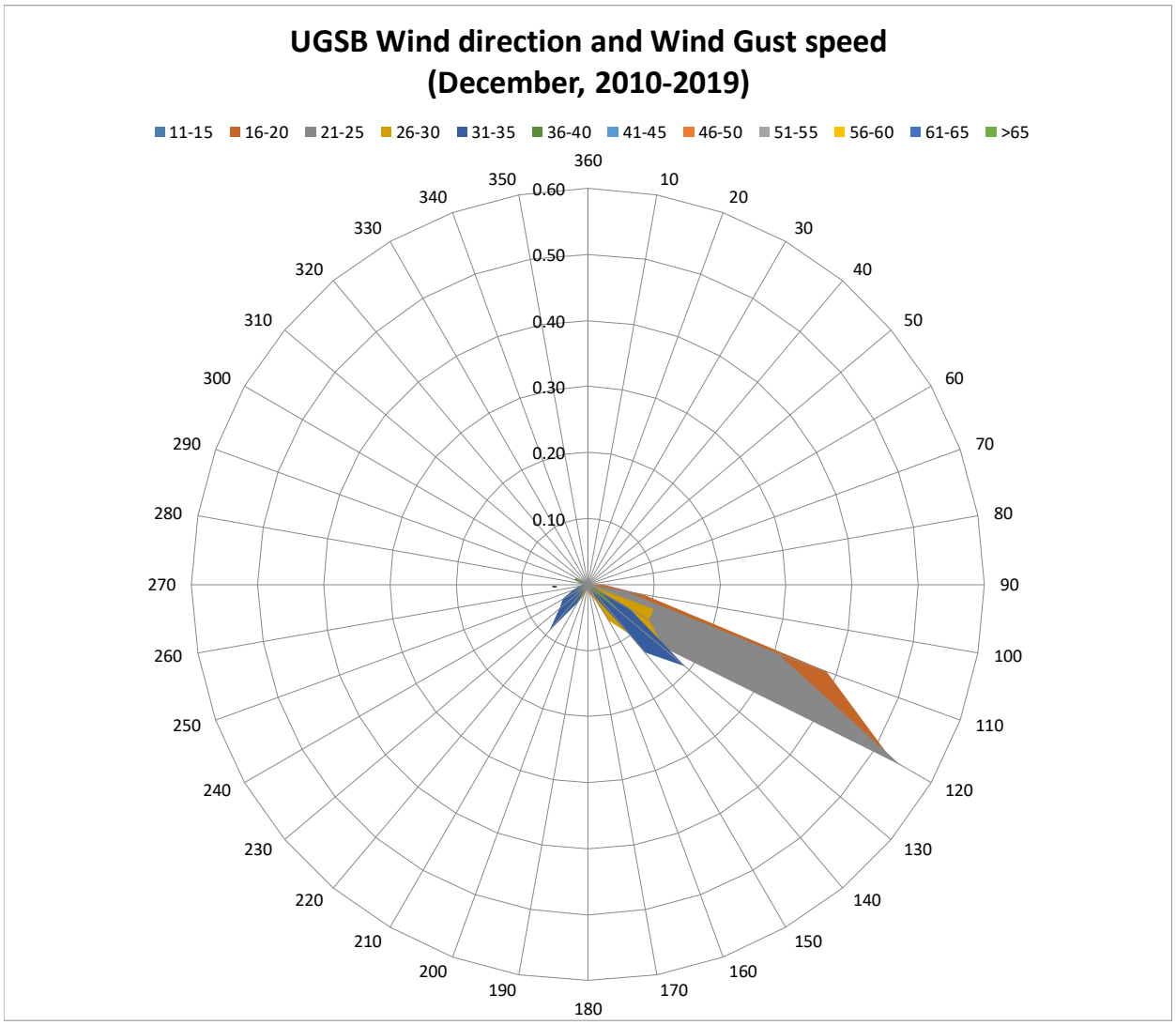
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | 0.02 | - | 0.01 | - | - | - | - | - | 0.03 |
| 100 | - | 0.09 | 0.06 | 0.01 | - | - | - | - | - | 0.15 |
| 110 | - | 0.38 | 0.31 | 0.11 | - | - | - | - | - | 0.80 |
| 120 | - | 0.53 | 0.55 | 0.11 | 0.07 | 0.02 | - | - | - | 1.28 |
| 130 | - | 0.13 | 0.15 | 0.15 | 0.19 | 0.06 | - | - | - | 0.68 |
| 140 | - | 0.07 | 0.08 | 0.10 | 0.14 | 0.01 | - | - | - | 0.40 |
| 150 | - | 0.02 | 0.06 | 0.06 | 0.02 | - | - | - | - | 0.16 |
| 160 | - | 0.02 | 0.01 | 0.02 | 0.01 | 0.01 | - | - | - | 0.07 |
| 170 | - | 0.01 | 0.01 | 0.01 | - | - | - | - | - | 0.03 |
| 180 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 190 | - | 0.01 | - | 0.01 | 0.01 | - | - | - | - | 0.02 |
| 200 | - | 0.01 | - | 0.02 | - | - | - | - | - | 0.03 |
| 210 | - | 0.01 | 0.02 | 0.03 | 0.03 | 0.02 | 0.01 | - | - | 0.11 |
| 220 | - | 0.02 | 0.02 | 0.05 | 0.09 | 0.01 | 0.01 | - | - | 0.20 |
| 230 | - | - | 0.01 | 0.05 | 0.06 | 0.02 | - | - | - | 0.14 |
| 240 | - | 0.03 | 0.01 | 0.02 | 0.04 | 0.01 | - | - | - | 0.11 |
| 250 | - | 0.01 | 0.01 | 0.01 | 0.02 | - | - | - | - | 0.06 |
| 260 | - | - | 0.01 | 0.01 | 0.01 | - | - | 0.01 | - | 0.04 |
| 270 | - | - | - | 0.01 | 0.01 | 0.01 | - | - | - | 0.02 |
| 280 | - | - | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | - | - | 0.06 |
| 290 | - | - | - | 0.01 | 0.01 | 0.02 | 0.01 | - | - | 0.04 |
| 300 | - | 0.01 | - | - | - | 0.02 | - | - | - | 0.03 |
| 310 | - | - | - | - | - | 0.01 | - | - | - | 0.01 |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 1.39 | 1.29 | 0.79 | 0.72 | 0.25 | 0.04 | 0.01 | - | 4.49 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.05%.

The maximum wind speed (46-50 knots) corresponds to the Strong gale and Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.01%).

The direction of maximum wind gusts is 260º.

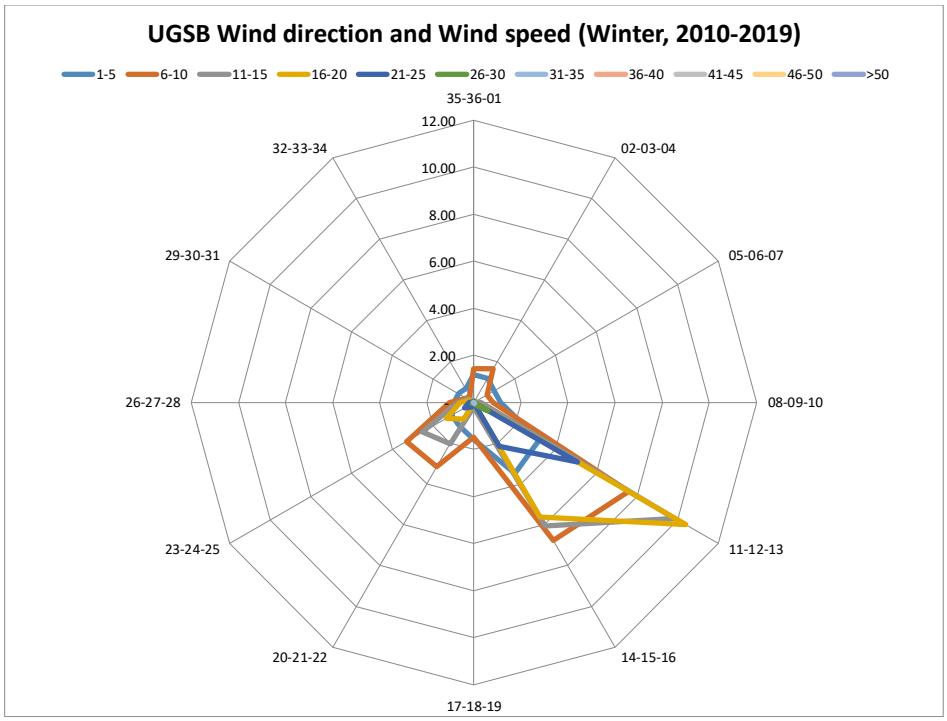
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB SEASON: WINTER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 38976 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.158 |
| VARIABLE | 2.222 | 0.220 | 0.003 | - | - | - | - | - | - | - | - | 2.445 |
| 35-36-01 | 1.181 | 1.437 | 0.013 | 0.008 | - | - | - | - | - | - | - | 2.638 |
| 02-03-04 | 1.158 | 1.656 | 0.062 | - | - | - | - | - | - | - | - | 2.876 |
| 05-06-07 | 0.985 | 0.656 | 0.041 | 0.016 | - | - | - | - | - | - | - | 1.698 |
| 08-09-10 | 1.137 | 0.830 | 0.297 | 0.044 | 0.005 | - | - | - | - | - | - | 2.313 |
| 11-12-13 | 3.186 | 7.592 | 9.858 | 10.404 | 5.080 | 0.695 | 0.023 | - | - | - | - | 36.839 |
| 14-15-16 | 3.468 | 6.783 | 6.055 | 5.626 | 2.134 | 0.109 | - | - | - | - | - | 24.174 |
| 17-18-19 | 1.584 | 1.478 | 0.194 | 0.013 | 0.003 | - | - | - | - | - | - | 3.271 |
| 20-21-22 | 1.207 | 3.132 | 2.039 | 0.832 | 0.227 | 0.041 | 0.005 | - | - | - | - | 7.484 |
| 23-24-25 | 1.090 | 3.310 | 2.527 | 1.354 | 0.444 | 0.072 | 0.003 | - | - | - | - | 8.801 |
| 26-27-28 | 0.840 | 1.036 | 0.677 | 0.574 | 0.199 | 0.057 | 0.008 | - | - | - | - | 3.390 |
| 29-30-31 | 0.749 | 0.344 | 0.315 | 0.207 | 0.078 | 0.047 | 0.003 | - | - | - | - | 1.742 |
| 32-33-34 | 0.695 | 0.341 | 0.085 | 0.028 | 0.021 | - | - | - | - | - | - | 1.171 |
| TOTAL | 19.502 | 28.815 | 22.167 | 19.104 | 8.192 | 1.021 | 0.041 | - | - | - | - | 100 |




**CALM**
1.16%

**VARIABLE**
2.44%

The prevailing wind directions of 110º-160º frequency of occurrence is 61.01%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze (frequency of occurrence 48.32%) and wind speed of 11-20 knots, which is the Moderate and Fresh breeze (frequency of occurrence 41.27%) according to “Beaufort wind force scale”.

The maximum wind of 31-35 knots is observed within the 110º-130º, 200º-280º and 290º-310º sectors (frequency of occurrence 0.04%).

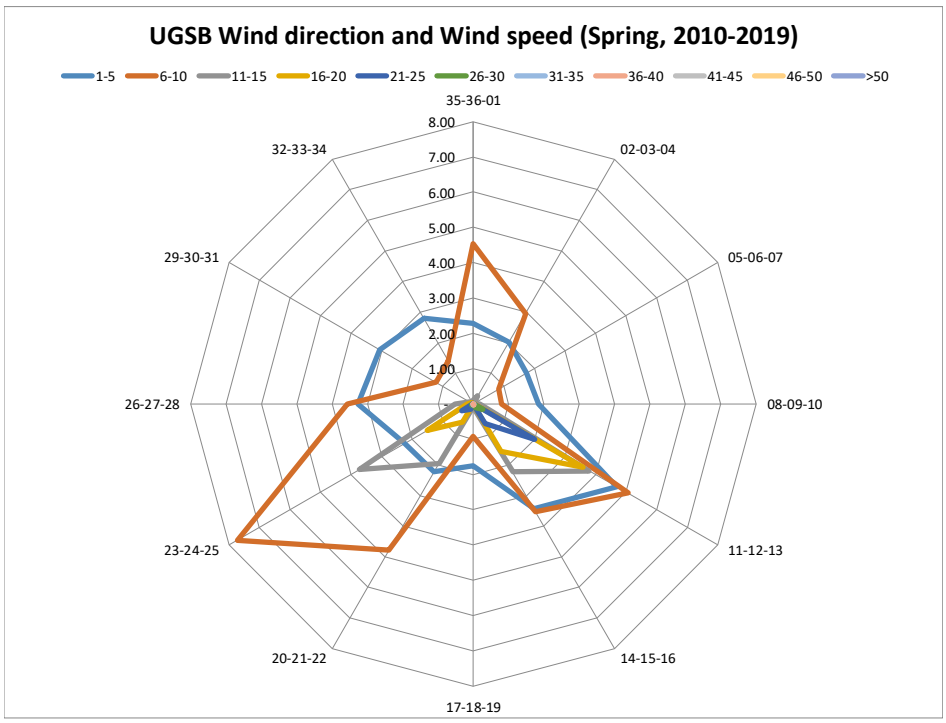
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB SEASON: SPRING PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 39744 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 3.111 |
| VARIABLE | 3.495 | 0.209 | 0.005 | - | - | - | - | - | - | - | - | 3.708 |
| 35-36-01 | 2.287 | 4.535 | 0.108 | - | - | - | - | - | - | - | - | 6.930 |
| 02-03-04 | 2.011 | 2.954 | 0.258 | 0.003 | - | - | - | - | - | - | - | 5.225 |
| 05-06-07 | 1.738 | 0.834 | 0.036 | - | - | - | - | - | - | - | - | 2.609 |
| 08-09-10 | 1.846 | 0.793 | 0.188 | 0.023 | 0.003 | - | - | - | - | - | - | 2.853 |
| 11-12-13 | 4.695 | 5.058 | 3.786 | 3.582 | 2.006 | 0.299 | 0.010 | 0.003 | - | - | - | 19.438 |
| 14-15-16 | 3.438 | 3.533 | 2.233 | 1.555 | 0.644 | 0.121 | 0.013 | - | - | - | - | 11.537 |
| 17-18-19 | 1.751 | 0.922 | 0.090 | 0.010 | - | - | - | - | - | - | - | 2.774 |
| 20-21-22 | 2.220 | 4.787 | 1.942 | 0.597 | 0.167 | 0.049 | 0.023 | - | - | - | - | 9.786 |
| 23-24-25 | 2.248 | 7.723 | 3.734 | 1.517 | 0.379 | 0.064 | 0.013 | 0.003 | - | - | - | 15.681 |
| 26-27-28 | 3.265 | 3.572 | 0.512 | 0.180 | 0.028 | 0.008 | - | - | - | - | - | 7.566 |
| 29-30-31 | 3.067 | 1.223 | 0.113 | 0.064 | 0.015 | 0.005 | - | - | - | - | - | 4.489 |
| 32-33-34 | 2.799 | 1.409 | 0.075 | 0.008 | - | - | 0.003 | - | - | - | - | 4.293 |
| TOTAL | 34.861 | 37.552 | 13.080 | 7.540 | 3.242 | 0.546 | 0.062 | 0.005 | - | - | - | 100 |




**CALM**
3.11%

**VARIABLE**
3.71%

The prevailing wind directions of 110º-160º frequency of occurrence is 30.98% and that of 200º-250º directions is 25.47%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 72.41%).

The maximum wind of 36-40 knots is observed within the 110º-130º and 230º-250º sector (frequency of occurrence 0.005%).

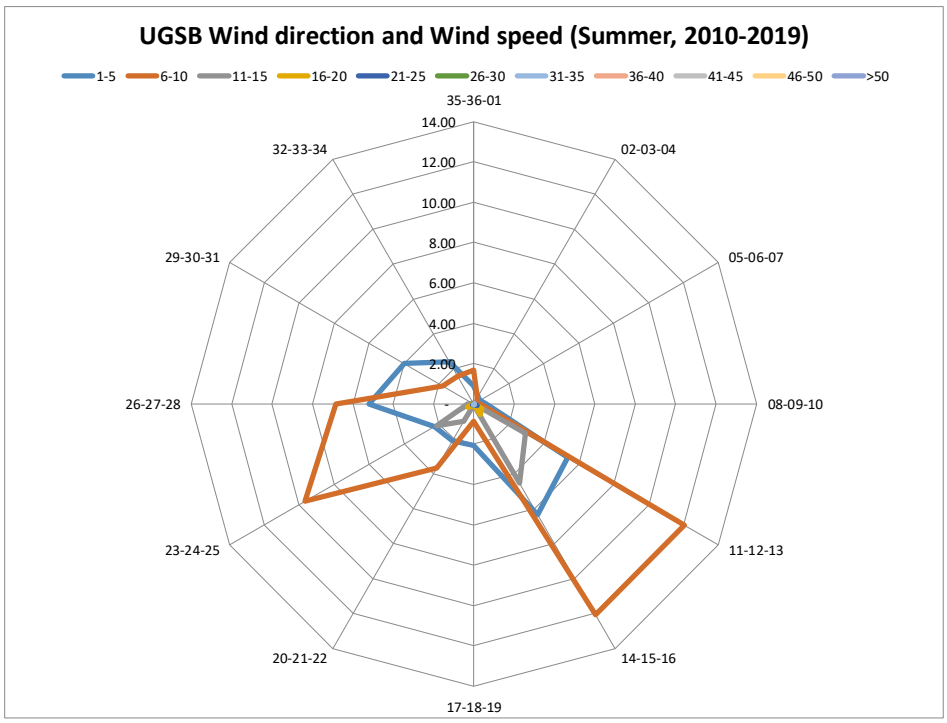
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB SEASON: SUMMER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 39744 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.676 |
| VARIABLE | 2.163 | 0.076 | 0.002 | 0.002 | - | - | - | - | - | - | - | 2.244 |
| 35-36-01 | 0.905 | 1.664 | 0.020 | - | - | 0.002 | - | - | - | - | - | 2.591 |
| 02-03-04 | 0.409 | 0.325 | 0.012 | - | - | - | - | - | - | - | - | 0.746 |
| 05-06-07 | 0.333 | 0.139 | 0.024 | - | - | - | - | - | - | - | - | 0.497 |
| 08-09-10 | 0.634 | 0.318 | 0.024 | - | - | - | - | - | - | - | - | 0.976 |
| 11-12-13 | 5.346 | 12.041 | 2.943 | 0.475 | 0.198 | 0.027 | - | - | - | - | - | 21.030 |
| 14-15-16 | 6.335 | 12.080 | 4.519 | 0.609 | 0.037 | 0.007 | - | - | - | - | - | 23.587 |
| 17-18-19 | 2.053 | 0.849 | 0.029 | - | - | - | - | - | - | - | - | 2.931 |
| 20-21-22 | 2.121 | 3.675 | 0.991 | 0.125 | 0.027 | 0.010 | 0.002 | - | - | - | - | 6.951 |
| 23-24-25 | 2.268 | 9.667 | 2.146 | 0.350 | 0.076 | 0.020 | - | - | - | - | - | 14.527 |
| 26-27-28 | 5.185 | 6.849 | 0.311 | 0.039 | 0.007 | - | - | - | - | - | - | 12.391 |
| 29-30-31 | 3.976 | 1.784 | 0.049 | 0.012 | 0.002 | 0.005 | - | - | - | - | - | 5.828 |
| 32-33-34 | 2.386 | 1.593 | 0.039 | 0.005 | 0.002 | - | - | - | - | - | - | 4.025 |
| TOTAL | 34.113 | 51.059 | 11.111 | 1.617 | 0.350 | 0.071 | 0.002 | - | - | - | - | 100 |




**CALM**
1.68%

**VARIABLE**
2.24%

The prevailing wind directions of 110º-160º frequency of occurrence is 44.62%.
The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 85.17 %).

The maximum wind of 31-35 knots is observed within the 200º-220º sector (frequency of occurrence 0.002%).

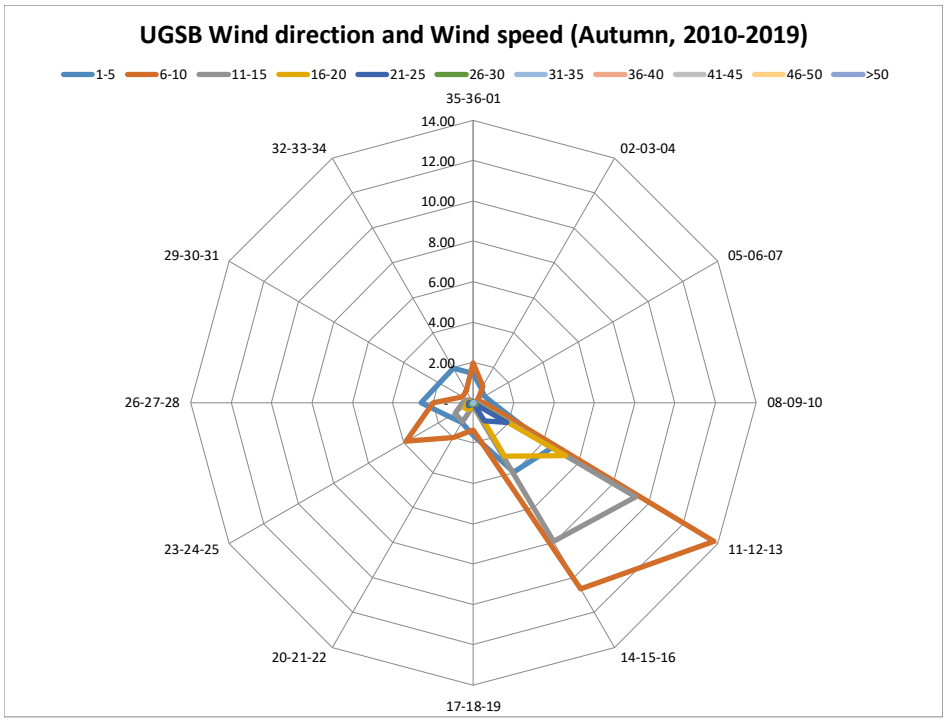
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB SEASON: AUTUMN PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 39312 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.398 |
| VARIABLE | 2.012 | 0.175 | 0.010 | - | - | - | - | - | - | - | - | 2.197 |
| 35-36-01 | 1.452 | 1.969 | 0.046 | 0.007 | 0.002 | - | - | - | - | - | - | 3.476 |
| 02-03-04 | 0.816 | 0.942 | 0.029 | 0.002 | - | - | - | - | - | - | - | 1.789 |
| 05-06-07 | 0.629 | 0.233 | 0.012 | - | - | - | - | - | - | - | - | 0.874 |
| 08-09-10 | 0.971 | 0.553 | 0.131 | 0.029 | 0.002 | - | - | - | - | - | - | 1.687 |
| 11-12-13 | 4.466 | 13.785 | 9.309 | 5.268 | 1.930 | 0.136 | - | - | - | - | - | 34.894 |
| 14-15-16 | 3.983 | 10.671 | 7.938 | 3.078 | 1.061 | 0.024 | - | - | - | - | - | 26.755 |
| 17-18-19 | 1.595 | 1.364 | 0.163 | 0.007 | - | - | - | - | - | - | - | 3.129 |
| 20-21-22 | 1.146 | 2.007 | 1.090 | 0.384 | 0.107 | 0.017 | 0.005 | - | - | - | - | 4.755 |
| 23-24-25 | 1.388 | 3.843 | 1.066 | 0.512 | 0.284 | 0.134 | 0.017 | - | - | - | - | 7.243 |
| 26-27-28 | 2.602 | 1.983 | 0.541 | 0.330 | 0.238 | 0.095 | 0.002 | - | - | - | - | 5.792 |
| 29-30-31 | 1.959 | 0.617 | 0.301 | 0.155 | 0.078 | 0.019 | - | - | - | - | - | 3.129 |
| 32-33-34 | 1.986 | 0.685 | 0.138 | 0.051 | 0.019 | 0.002 | - | - | - | - | - | 2.881 |
| TOTAL | 25.005 | 38.827 | 20.774 | 9.824 | 3.721 | 0.427 | 0.024 | - | - | - | - | 100 |




**CALM**
1.40%

**VARIABLE**
2.20%

The prevailing wind directions of 110º-160º frequency of occurrence is 61.65%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 63.83%).

The maximum wind of 31-35 knots is observed within the 200º-220º (frequency of occurrence 0.005%), 230º-250º (frequency of occurrence 0.017%) and within 260º-280º (frequency of occurrence 0.002%) sectors.

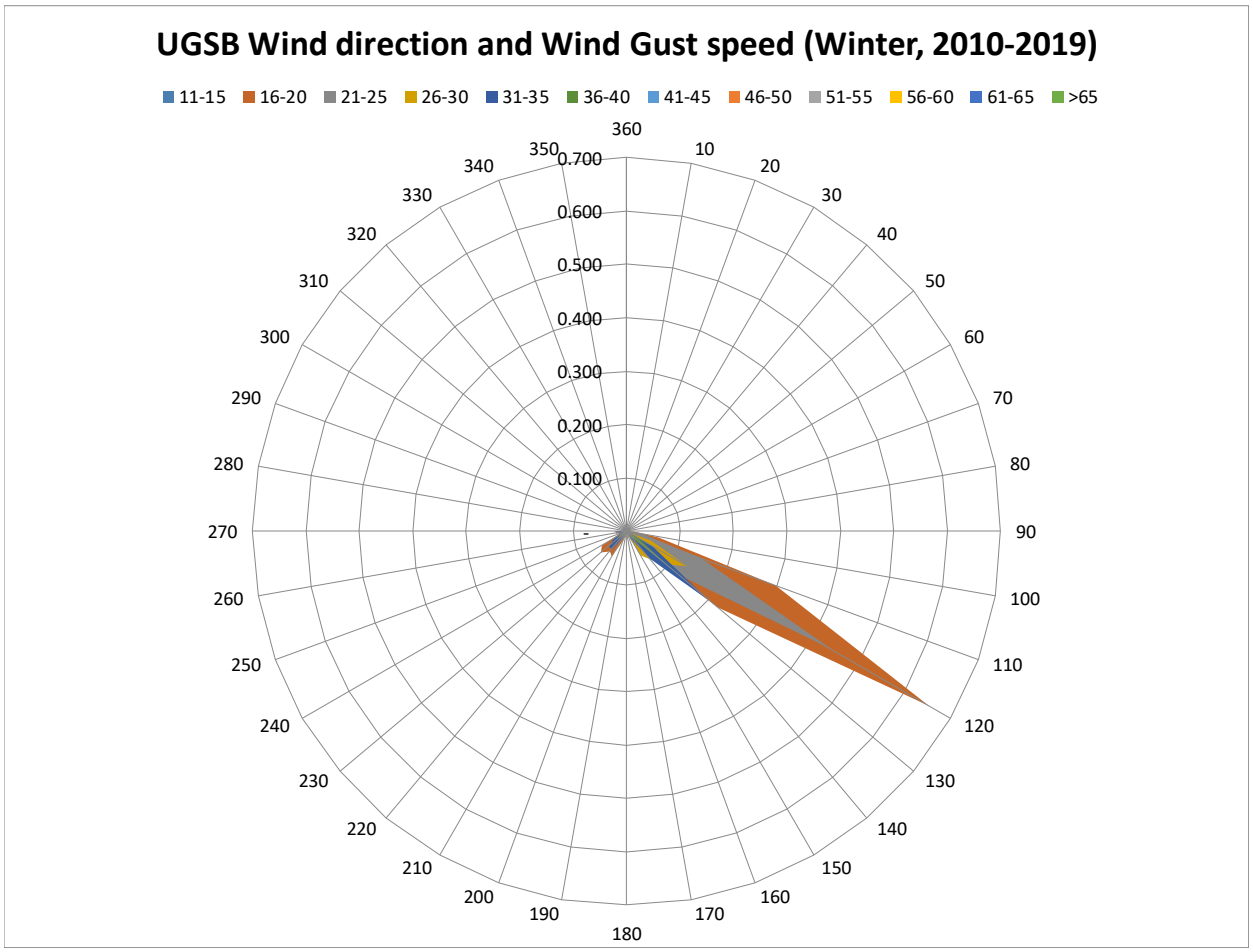
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB SEASON: WINTER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 38976 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | 0.003 | - | - | - | - | - | - | - | 0.003 |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | 0.003 | - | - | - | - | - | - | - | 0.003 |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | 0.005 | - | - | - | - | - | - | - | 0.005 |
| 60 | - | 0.013 | 0.005 | 0.005 | - | - | - | - | - | 0.023 |
| 70 | - | 0.003 | 0.003 | - | - | - | - | - | - | 0.005 |
| 80 | - | - | 0.003 | - | - | - | - | - | - | 0.003 |
| 90 | - | 0.013 | 0.003 | 0.003 | - | - | - | - | - | 0.018 |
| 100 | - | 0.062 | 0.028 | 0.008 | - | - | - | - | - | 0.098 |
| 110 | - | 0.296 | 0.149 | 0.049 | 0.003 | - | - | - | - | 0.496 |
| 120 | - | 0.653 | 0.442 | 0.131 | 0.057 | 0.026 | 0.013 | - | - | 1.322 |
| 130 | 0.003 | 0.221 | 0.129 | 0.098 | 0.201 | 0.100 | 0.008 | - | - | 0.759 |
| 140 | - | 0.046 | 0.036 | 0.069 | 0.067 | 0.018 | - | - | - | 0.237 |
| 150 | - | 0.008 | 0.021 | 0.051 | 0.015 | 0.003 | - | - | - | 0.098 |
| 160 | - | 0.008 | 0.003 | 0.010 | 0.005 | 0.005 | - | - | - | 0.031 |
| 170 | - | 0.005 | 0.005 | 0.003 | 0.003 | - | - | - | - | 0.015 |
| 180 | - | 0.013 | 0.003 | 0.003 | - | - | - | - | - | 0.018 |
| 190 | - | 0.003 | 0.003 | 0.005 | 0.003 | - | - | - | - | 0.013 |
| 200 | 0.003 | 0.015 | - | 0.008 | - | - | - | 0.003 | - | 0.028 |
| 210 | - | 0.054 | 0.015 | 0.013 | 0.013 | 0.008 | 0.005 | - | - | 0.108 |
| 220 | - | 0.049 | 0.031 | 0.039 | 0.044 | 0.013 | 0.005 | 0.003 | - | 0.183 |
| 230 | - | 0.062 | 0.028 | 0.028 | 0.044 | 0.021 | - | - | - | 0.183 |
| 240 | - | 0.054 | 0.013 | 0.021 | 0.028 | 0.013 | - | - | - | 0.129 |
| 250 | - | 0.013 | 0.015 | 0.008 | 0.015 | 0.005 | - | - | - | 0.057 |
| 260 | - | 0.021 | 0.010 | 0.005 | 0.015 | 0.003 | 0.005 | 0.003 | - | 0.062 |
| 270 | - | 0.021 | 0.010 | 0.005 | 0.023 | 0.013 | 0.005 | - | - | 0.077 |
| 280 | - | 0.003 | 0.010 | 0.003 | 0.005 | 0.005 | 0.008 | - | - | 0.033 |
| 290 | - | 0.003 | - | 0.005 | 0.003 | 0.010 | 0.003 | - | - | 0.023 |
| 300 | - | 0.005 | - | - | - | 0.008 | 0.003 | - | - | 0.015 |
| 310 | - | - | - | - | - | 0.003 | - | - | - | 0.003 |
| 320 | - | - | - | - | - | 0.003 | - | - | - | 0.003 |
| 330 | - | 0.003 | - | - | - | - | - | - | - | 0.003 |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.005 | 1.654 | 0.964 | 0.568 | 0.543 | 0.255 | 0.054 | 0.008 | - | 4.051 |




The strong wind (wind gust ≥41 knots) (frequency of occurrence – 0.062%).

The maximum wind speed (46-50 knots) corresponds to the Strong gale and Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.009%).

The direction of maximum wind gusts are 200º, 220º and 260º.

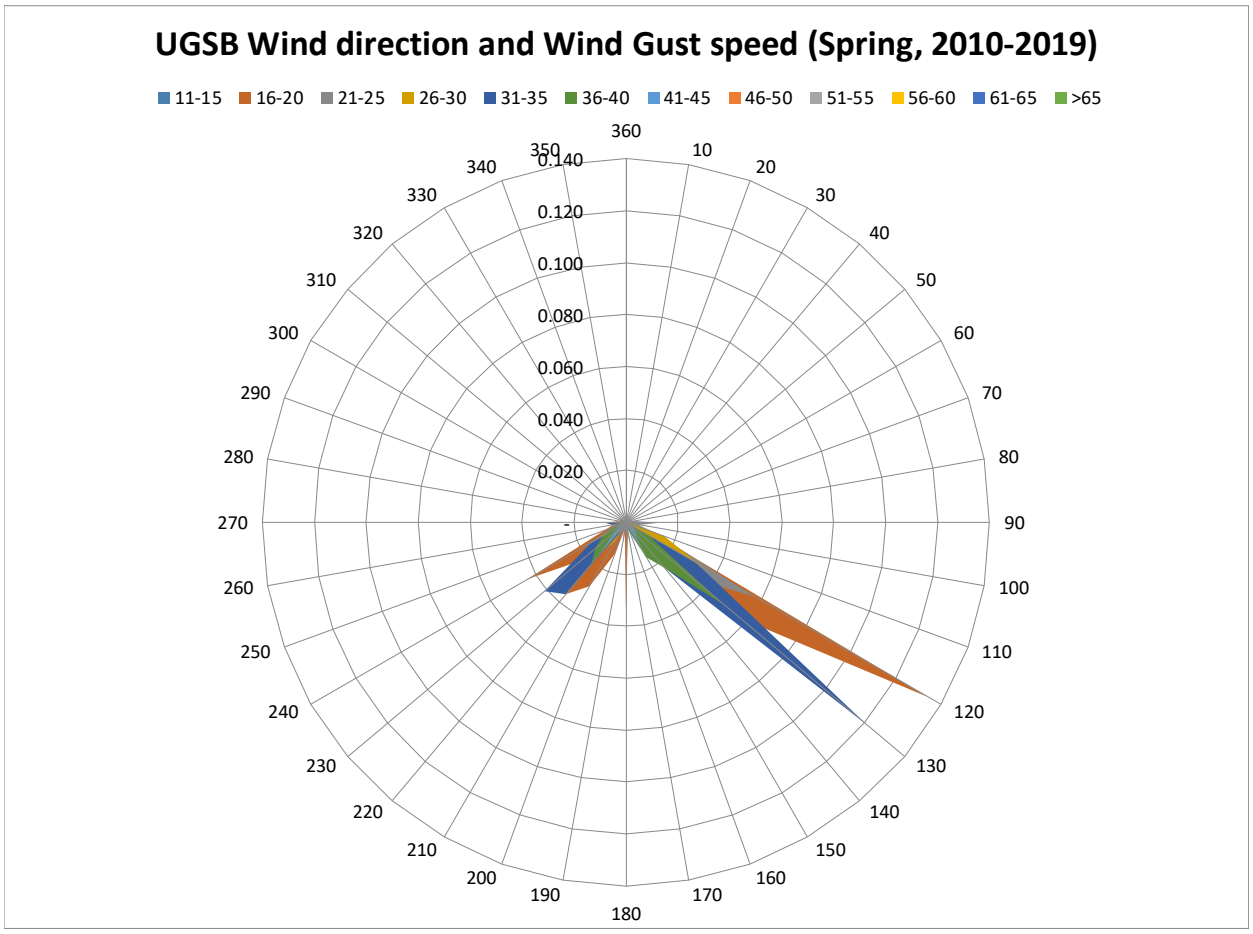
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB SEASON: SPRING PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 39744 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | 0.003 | - | - | - | - | - | - | - | 0.003 |
| 80 | - | - | 0.003 | - | - | - | - | - | - | 0.003 |
| 90 | - | - | 0.013 | 0.003 | - | - | - | - | - | 0.015 |
| 100 | - | 0.003 | 0.005 | 0.003 | - | - | - | - | - | 0.010 |
| 110 | - | 0.010 | 0.013 | 0.015 | - | - | - | - | - | 0.039 |
| 120 | 0.003 | 0.134 | 0.057 | 0.033 | 0.031 | 0.010 | 0.003 | 0.003 | - | 0.273 |
| 130 | 0.003 | 0.057 | 0.033 | 0.036 | 0.121 | 0.049 | 0.005 | - | - | 0.304 |
| 140 | - | 0.005 | 0.005 | 0.021 | 0.023 | 0.023 | 0.005 | 0.003 | - | 0.085 |
| 150 | - | 0.005 | 0.008 | 0.005 | 0.010 | 0.015 | 0.013 | - | - | 0.057 |
| 160 | - | 0.003 | 0.003 | - | 0.003 | 0.003 | - | - | - | 0.010 |
| 170 | - | 0.005 | 0.008 | 0.003 | - | - | - | - | - | 0.015 |
| 180 | - | 0.033 | 0.003 | - | - | - | - | - | - | 0.036 |
| 190 | - | 0.003 | 0.008 | - | - | - | - | - | - | 0.010 |
| 200 | - | 0.013 | 0.003 | - | - | - | - | - | - | 0.015 |
| 210 | - | 0.028 | 0.005 | 0.008 | 0.005 | 0.003 | 0.003 | 0.005 | - | 0.057 |
| 220 | - | 0.036 | 0.023 | 0.021 | 0.036 | 0.021 | 0.015 | 0.003 | 0.003 | 0.157 |
| 230 | - | 0.023 | 0.008 | 0.023 | 0.041 | 0.015 | 0.005 | - | - | 0.116 |
| 240 | - | 0.044 | 0.021 | 0.013 | 0.015 | 0.010 | 0.003 | - | - | 0.106 |
| 250 | 0.003 | 0.008 | 0.005 | 0.003 | - | 0.005 | 0.005 | - | - | 0.028 |
| 260 | - | 0.005 | 0.005 | - | 0.005 | 0.003 | - | - | - | 0.018 |
| 270 | - | 0.008 | 0.003 | 0.008 | 0.008 | - | - | - | - | 0.026 |
| 280 | - | 0.003 | - | - | - | - | - | - | - | 0.003 |
| 290 | - | 0.003 | - | - | - | - | - | - | - | 0.003 |
| 300 | - | - | 0.003 | 0.003 | 0.003 | - | - | - | - | 0.008 |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.008 | 0.430 | 0.232 | 0.196 | 0.301 | 0.157 | 0.057 | 0.013 | 0.003 | 1.396 |




The strong wind (wind gust ≥41 knots) – (frequency of occurrence – 0.073%).

The maximum wind speed (>50 knots) corresponds to the Storm according to “Beaufort wind force scale” (frequency of occurrence – 0.003%).

The directions of maximum wind gusts is 220º.

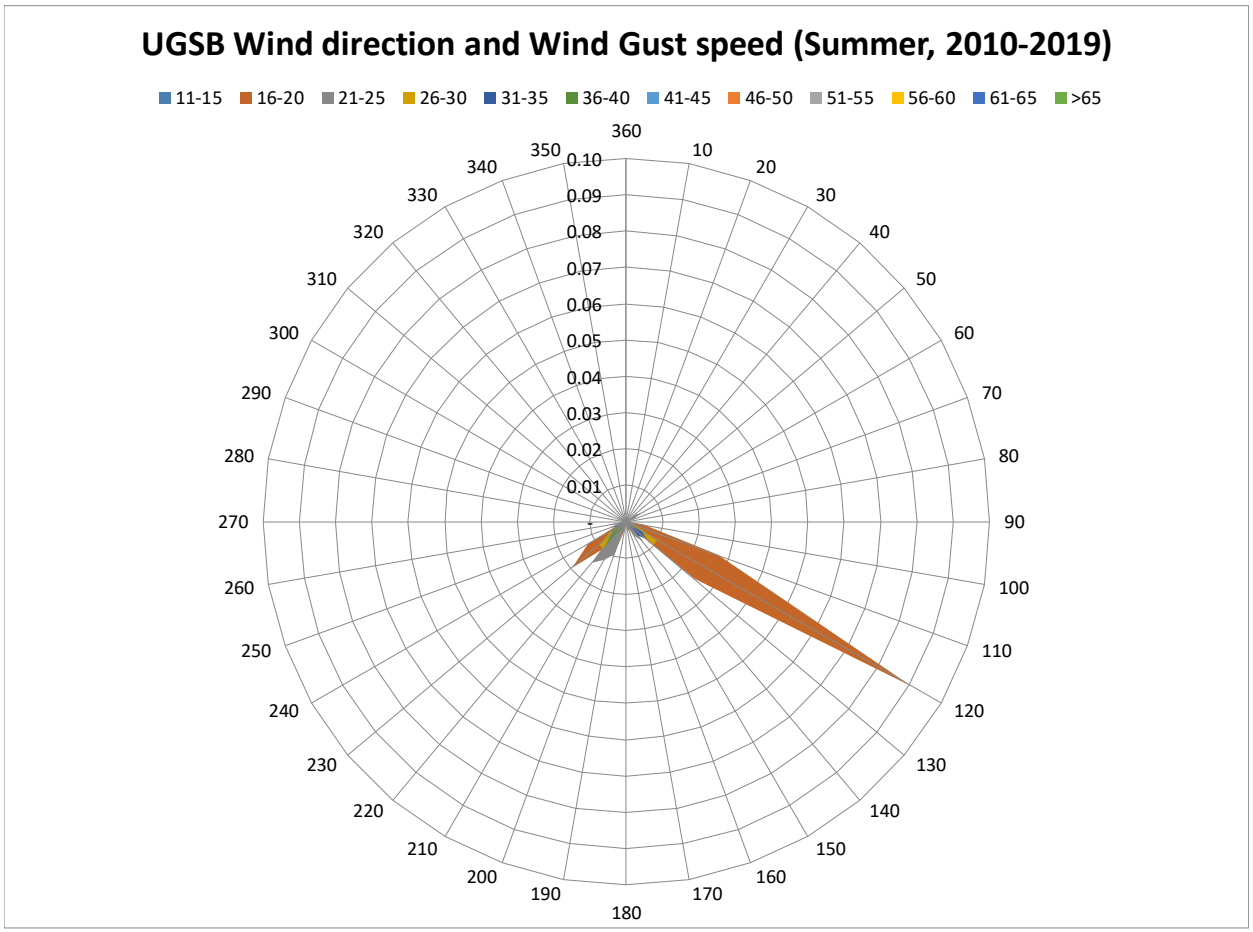
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB SEASON: SUMMER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 39744 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | 0.002 | - | - | - | - | - | - | 0.002 |
| 60 | - | 0.002 | 0.005 | - | - | - | - | - | - | 0.007 |
| 70 | - | - | 0.002 | - | - | - | - | - | - | 0.002 |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | 0.005 | 0.002 | - | - | - | - | - | - | 0.007 |
| 110 | - | 0.027 | 0.002 | 0.002 | - | - | - | - | - | 0.032 |
| 120 | 0.002 | 0.091 | 0.002 | 0.010 | 0.005 | 0.007 | - | - | - | 0.117 |
| 130 | - | 0.024 | - | 0.010 | 0.007 | 0.002 | - | - | - | 0.044 |
| 140 | - | 0.002 | 0.007 | - | 0.005 | - | - | - | - | 0.015 |
| 150 | - | 0.005 | 0.005 | - | - | - | - | - | - | 0.010 |
| 160 | - | 0.002 | - | - | - | - | - | - | - | 0.002 |
| 170 | - | 0.002 | - | 0.002 | - | - | - | - | - | 0.005 |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | 0.002 | - | 0.002 | - | - | - | - | - | 0.005 |
| 200 | - | 0.007 | 0.010 | 0.002 | 0.002 | - | - | - | - | 0.022 |
| 210 | - | 0.012 | 0.012 | - | 0.002 | 0.002 | - | - | - | 0.029 |
| 220 | - | 0.010 | 0.015 | 0.010 | - | 0.010 | - | - | - | 0.044 |
| 230 | - | 0.020 | 0.005 | 0.010 | 0.007 | 0.005 | - | - | - | 0.046 |
| 240 | - | 0.012 | 0.002 | 0.005 | 0.002 | 0.005 | - | - | - | 0.027 |
| 250 | - | 0.002 | 0.002 | 0.002 | 0.005 | - | - | - | - | 0.012 |
| 260 | - | - | 0.005 | - | - | 0.002 | - | - | - | 0.007 |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | 0.002 | - | - | - | - | - | 0.002 |
| 300 | - | - | - | 0.002 | - | - | - | - | - | 0.002 |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.002 | 0.228 | 0.081 | 0.061 | 0.037 | 0.034 | - | - | - | 0.443 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (36-40 knots) corresponds to the Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.034%).

The directions of maximum wind gusts are 120º, 130º, 210º, 220º, 230º, 240º and 260º.

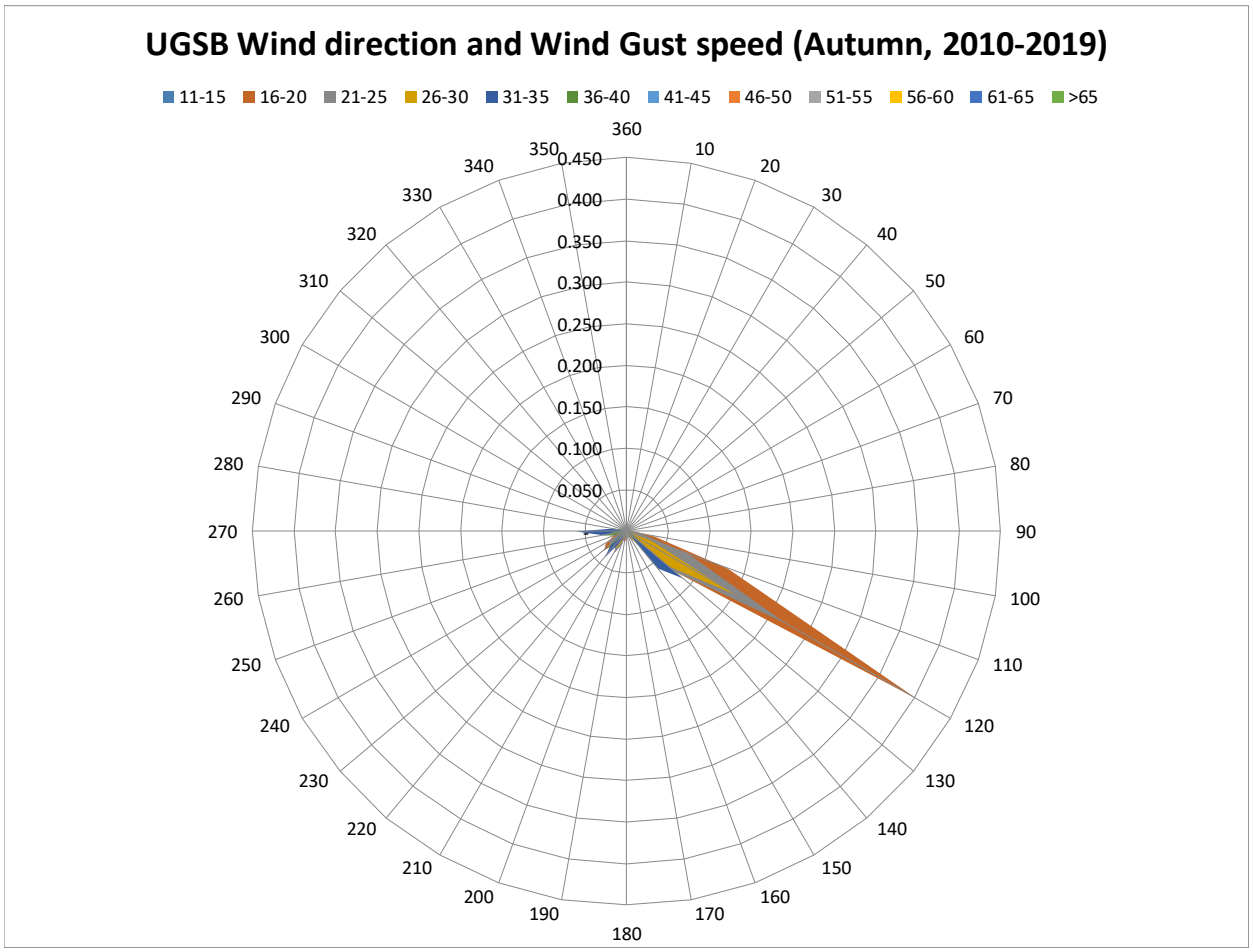
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGSB SEASON: AUTUMN PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 39312 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | 0.002 | 0.002 | - | - | - | - | - | - | 0.005 |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | 0.002 | 0.007 | - | - | - | - | - | - | 0.010 |
| 90 | - | 0.010 | 0.007 | - | - | - | - | - | - | 0.017 |
| 100 | - | 0.034 | 0.017 | 0.002 | 0.002 | - | - | - | - | 0.056 |
| 110 | 0.002 | 0.129 | 0.078 | 0.027 | 0.002 | - | - | - | - | 0.238 |
| 120 | 0.005 | 0.403 | 0.221 | 0.151 | 0.007 | 0.005 | - | - | - | 0.791 |
| 130 | - | 0.075 | 0.075 | 0.066 | 0.087 | 0.022 | - | - | - | 0.325 |
| 140 | - | 0.010 | 0.015 | 0.019 | 0.058 | 0.005 | - | - | - | 0.107 |
| 150 | - | 0.010 | 0.010 | 0.010 | - | - | - | - | - | 0.029 |
| 160 | - | - | 0.005 | 0.002 | - | - | - | - | - | 0.007 |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | 0.007 | 0.007 | - | - | - | - | - | - | 0.015 |
| 190 | - | 0.012 | - | - | - | - | - | - | - | 0.012 |
| 200 | - | 0.012 | 0.017 | 0.007 | 0.002 | - | - | - | - | 0.039 |
| 210 | - | 0.029 | 0.029 | 0.022 | 0.012 | 0.005 | - | - | - | 0.097 |
| 220 | - | 0.019 | 0.022 | 0.024 | 0.041 | 0.007 | 0.005 | - | - | 0.119 |
| 230 | - | 0.036 | 0.024 | 0.032 | 0.024 | 0.044 | 0.010 | - | - | 0.170 |
| 240 | - | 0.029 | 0.024 | 0.005 | 0.012 | 0.005 | 0.002 | - | - | 0.078 |
| 250 | - | 0.017 | 0.010 | 0.012 | 0.005 | 0.015 | - | - | - | 0.058 |
| 260 | - | 0.015 | 0.007 | 0.010 | 0.027 | 0.027 | 0.005 | - | - | 0.090 |
| 270 | - | 0.002 | 0.010 | 0.041 | 0.061 | 0.015 | 0.002 | - | - | 0.131 |
| 280 | - | 0.002 | 0.007 | 0.007 | 0.017 | 0.002 | 0.005 | - | - | 0.041 |
| 290 | - | - | - | 0.002 | 0.005 | 0.002 | - | - | - | 0.010 |
| 300 | - | - | - | - | 0.002 | 0.002 | - | - | - | 0.005 |
| 310 | - | 0.002 | 0.002 | 0.002 | - | 0.002 | - | - | - | 0.010 |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | 0.002 | - | 0.002 | - | - | - | - | - | 0.005 |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | 0.002 | - | - | - | 0.002 |
| TOTAL | 0.007 | 0.862 | 0.597 | 0.444 | 0.367 | 0.160 | 0.029 | - | - | 2.466 |




The strong wind (wind gust ≥41 knots) frequency of occurrence – 0.029%.

The maximum wind speed (41-45 knots) corresponds to the Strong gale according to “Beaufort wind force scale” (frequency of occurrence – 0.029%).

The directions of maximum wind gusts are 220º, 230º, 240º, 260º and 280º.

**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

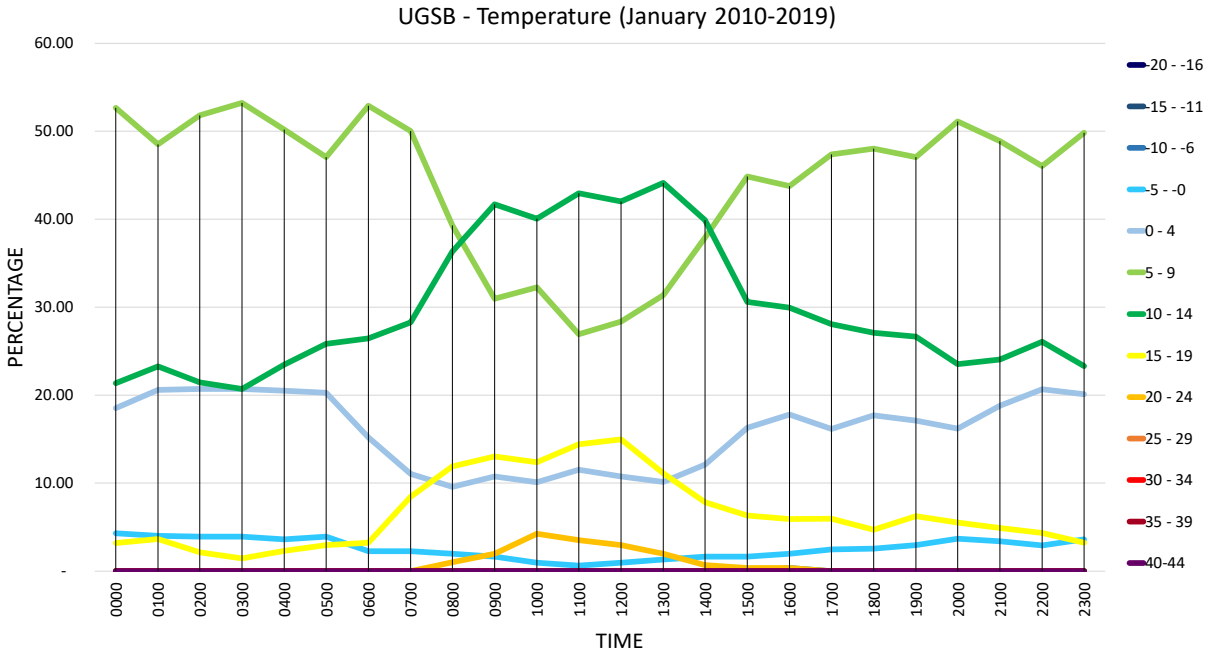
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | 4.27 | 18.51 | 52.67 | 21.35 | 3.20 | - | - | - | - | - |
| 0100 | - | - | - | 3.99 | 20.60 | 48.50 | 23.26 | 3.65 | - | - | - | - | - |
| 0200 | - | - | - | 3.93 | 20.71 | 51.79 | 21.43 | 2.14 | - | - | - | - | - |
| 0300 | - | - | - | 3.93 | 20.71 | 53.21 | 20.71 | 1.43 | - | - | - | - | - |
| 0400 | - | - | - | 3.58 | 20.52 | 50.16 | 23.45 | 2.28 | - | - | - | - | - |
| 0500 | - | - | - | 3.92 | 20.26 | 47.06 | 25.82 | 2.94 | - | - | - | - | - |
| 0600 | - | - | - | 2.26 | 15.16 | 52.90 | 26.45 | 3.23 | - | - | - | - | - |
| 0700 | - | - | - | 2.27 | 11.04 | 50.00 | 28.25 | 8.44 | - | - | - | - | - |
| 0800 | - | - | - | 1.98 | 9.57 | 39.27 | 36.30 | 11.88 | 0.99 | - | - | - | - |
| 0900 | - | - | - | 1.63 | 10.75 | 30.94 | 41.69 | 13.03 | 1.95 | - | - | - | - |
| 1000 | - | - | - | 0.98 | 10.10 | 32.25 | 40.07 | 12.38 | 4.23 | - | - | - | - |
| 1100 | - | - | - | 0.64 | 11.54 | 26.92 | 42.95 | 14.42 | 3.53 | - | - | - | - |
| 1200 | - | - | - | 0.98 | 10.75 | 28.34 | 42.02 | 14.98 | 2.93 | - | - | - | - |
| 1300 | - | - | - | 1.31 | 10.13 | 31.37 | 44.12 | 11.11 | 1.96 | - | - | - | - |
| 1400 | - | - | - | 1.63 | 12.09 | 37.91 | 39.87 | 7.84 | 0.65 | - | - | - | - |
| 1500 | - | - | - | 1.66 | 16.28 | 44.85 | 30.56 | 6.31 | 0.33 | - | - | - | - |
| 1600 | - | - | 0.33 | 1.97 | 17.76 | 43.75 | 29.93 | 5.92 | 0.33 | - | - | - | - |
| 1700 | - | - | - | 2.46 | 16.14 | 47.37 | 28.07 | 5.96 | - | - | - | - | - |
| 1800 | - | - | - | 2.53 | 17.69 | 48.01 | 27.08 | 4.69 | - | - | - | - | - |
| 1900 | - | - | - | 2.96 | 17.11 | 47.04 | 26.64 | 6.25 | - | - | - | - | - |
| 2000 | - | - | - | 3.68 | 16.18 | 51.10 | 23.53 | 5.51 | - | - | - | - | - |
| 2100 | - | - | - | 3.38 | 18.80 | 48.87 | 24.06 | 4.89 | - | - | - | - | - |
| 2200 | - | - | - | 2.90 | 20.65 | 46.01 | 26.09 | 4.35 | - | - | - | - | - |
| 2300 | - | - | - | 3.61 | 20.08 | 49.80 | 23.29 | 3.21 | - | - | - | - | - |
| MEAN | - | - | 0.01 | 2.60 | 15.96 | 44.17 | 29.87 | 6.67 | 0.70 | - | - | - | - |

Min temperature -10º to -6º (time 1600 UTC) – 0.33%

Max temperature 20º to 24º (time 1000 UTC) – 4.23%

Mean dominating temperature 5º to 9º – 44.17%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 6768 OBSERVATION INTERVAL: 1 HOUR

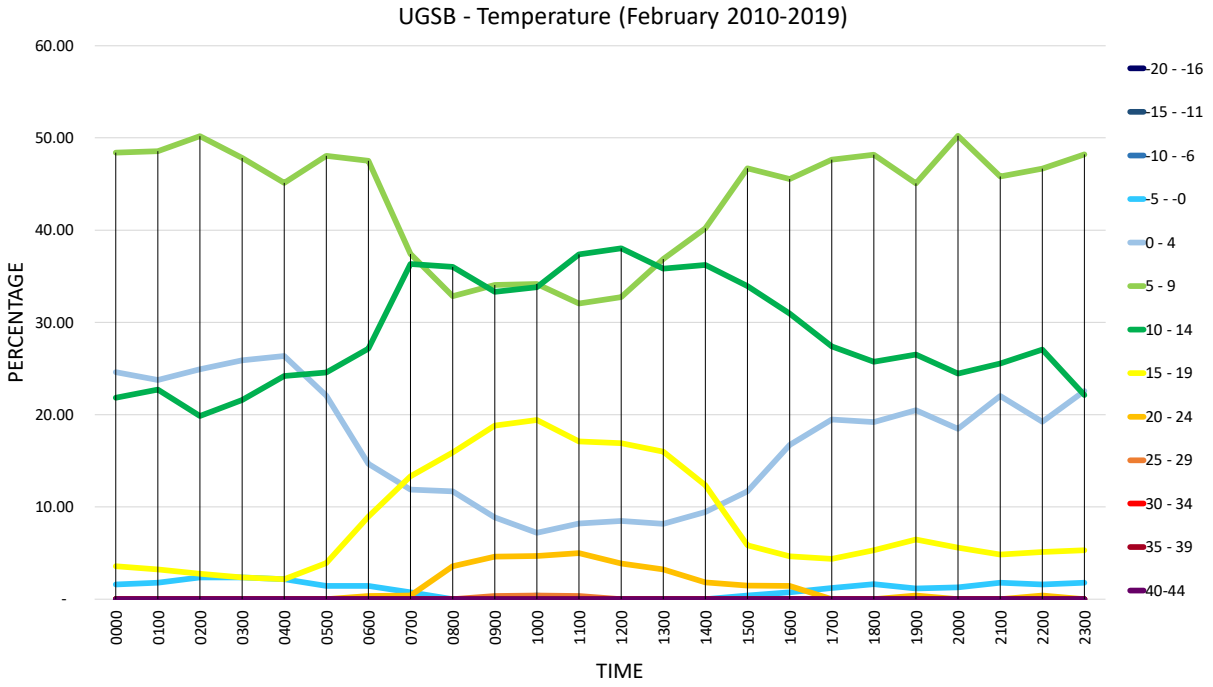
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | 1.59 | 24.60 | 48.41 | 21.83 | 3.57 | - | - | - | - | - |
| 0100 | - | - | - | 1.77 | 23.76 | 48.58 | 22.70 | 3.19 | - | - | - | - | - |
| 0200 | - | - | - | 2.33 | 24.90 | 50.19 | 19.84 | 2.72 | - | - | - | - | - |
| 0300 | - | - | - | 2.35 | 25.88 | 47.84 | 21.57 | 2.35 | - | - | - | - | - |
| 0400 | - | - | - | 2.17 | 26.35 | 45.13 | 24.19 | 2.17 | - | - | - | - | - |
| 0500 | - | - | - | 1.42 | 22.06 | 48.04 | 24.56 | 3.91 | - | - | - | - | - |
| 0600 | - | - | - | 1.43 | 14.64 | 47.50 | 27.14 | 8.93 | 0.36 | - | - | - | - |
| 0700 | - | - | - | 0.72 | 11.87 | 37.41 | 36.33 | 13.31 | 0.36 | - | - | - | - |
| 0800 | - | - | - | - | 11.66 | 32.86 | 36.04 | 15.90 | 3.53 | - | - | - | - |
| 0900 | - | - | - | - | 8.87 | 34.04 | 33.33 | 18.79 | 4.61 | 0.35 | - | - | - |
| 1000 | - | - | - | 0.36 | 7.19 | 34.17 | 33.81 | 19.42 | 4.68 | 0.36 | - | - | - |
| 1100 | - | - | - | - | 8.19 | 32.03 | 37.37 | 17.08 | 4.98 | 0.36 | - | - | - |
| 1200 | - | - | - | - | 8.45 | 32.75 | 38.03 | 16.90 | 3.87 | - | - | - | - |
| 1300 | - | - | - | - | 8.16 | 36.88 | 35.82 | 15.96 | 3.19 | - | - | - | - |
| 1400 | - | - | - | - | 9.42 | 40.22 | 36.23 | 12.32 | 1.81 | - | - | - | - |
| 1500 | - | - | - | 0.36 | 11.68 | 46.72 | 33.94 | 5.84 | 1.46 | - | - | - | - |
| 1600 | - | - | - | 0.71 | 16.73 | 45.55 | 30.96 | 4.63 | 1.42 | - | - | - | - |
| 1700 | - | - | - | 1.19 | 19.44 | 47.62 | 27.38 | 4.37 | - | - | - | - | - |
| 1800 | - | - | - | 1.63 | 19.18 | 48.16 | 25.71 | 5.31 | - | - | - | - | - |
| 1900 | - | - | - | 1.14 | 20.45 | 45.08 | 26.52 | 6.44 | 0.38 | - | - | - | - |
| 2000 | - | - | - | 1.29 | 18.45 | 50.21 | 24.46 | 5.58 | - | - | - | - | - |
| 2100 | - | - | - | 1.76 | 22.03 | 45.81 | 25.55 | 4.85 | - | - | - | - | - |
| 2200 | - | - | - | 1.57 | 19.22 | 46.67 | 27.06 | 5.10 | 0.39 | - | - | - | - |
| 2300 | - | - | - | 1.77 | 22.57 | 48.23 | 22.12 | 5.31 | - | - | - | - | - |
| MEAN | - | - | - | 1.07 | 16.91 | 43.34 | 28.85 | 8.50 | 1.29 | 0.04 | - | - | - |

Min temperature -5º to -0º (time 0300 UTC) – 2.35%

Max temperature 25º to 29º (time 1000 and 1100 UTC) – each 0.36%

Mean dominating temperature 5º to 9º – 43.34%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

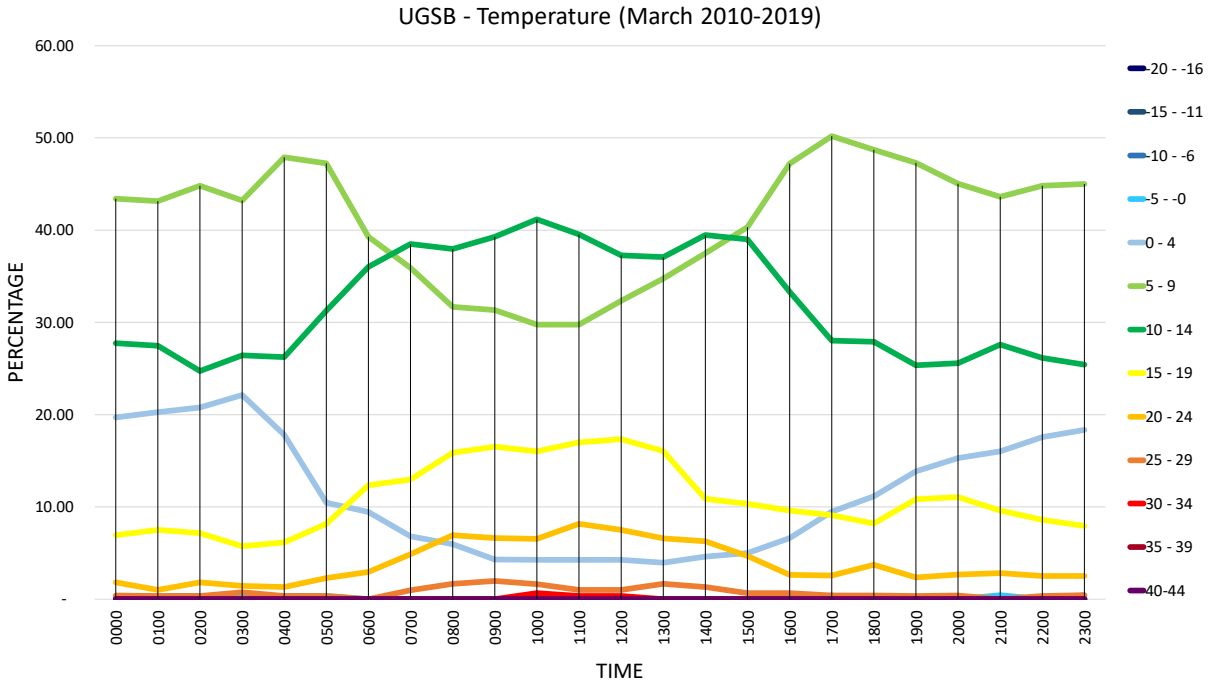
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | 19.71 | 43.43 | 27.74 | 6.93 | 1.82 | 0.36 | - | - | - |
| 0100 | - | - | - | 0.33 | 20.26 | 43.14 | 27.45 | 7.52 | 0.98 | 0.33 | - | - | - |
| 0200 | - | - | - | 0.36 | 20.79 | 44.80 | 24.73 | 7.17 | 1.79 | 0.36 | - | - | - |
| 0300 | - | - | - | 0.36 | 22.14 | 43.21 | 26.43 | 5.71 | 1.43 | 0.71 | - | - | - |
| 0400 | - | - | - | 0.32 | 17.80 | 47.90 | 26.21 | 6.15 | 1.29 | 0.32 | - | - | - |
| 0500 | - | - | - | 0.33 | 10.42 | 47.23 | 31.27 | 8.14 | 2.28 | 0.33 | - | - | - |
| 0600 | - | - | - | - | 9.42 | 39.29 | 36.04 | 12.34 | 2.92 | - | - | - | - |
| 0700 | - | - | - | - | 6.80 | 35.92 | 38.51 | 12.94 | 4.85 | 0.97 | - | - | - |
| 0800 | - | - | - | - | 5.94 | 31.68 | 37.95 | 15.84 | 6.93 | 1.65 | - | - | - |
| 0900 | - | - | - | - | 4.29 | 31.35 | 39.27 | 16.50 | 6.60 | 1.98 | - | - | - |
| 1000 | - | - | - | - | 4.25 | 29.74 | 41.18 | 16.01 | 6.54 | 1.63 | 0.65 | - | - |
| 1100 | - | - | - | - | 4.25 | 29.74 | 39.54 | 16.99 | 8.17 | 0.98 | 0.33 | - | - |
| 1200 | - | - | - | - | 4.25 | 32.35 | 37.25 | 17.32 | 7.52 | 0.98 | 0.33 | - | - |
| 1300 | - | - | - | - | 3.93 | 34.75 | 37.05 | 16.07 | 6.56 | 1.64 | - | - | - |
| 1400 | - | - | - | - | 4.61 | 37.50 | 39.47 | 10.86 | 6.25 | 1.32 | - | - | - |
| 1500 | - | - | - | - | 5.00 | 40.33 | 39.00 | 10.33 | 4.67 | 0.67 | - | - | - |
| 1600 | - | - | - | - | 6.60 | 47.19 | 33.33 | 9.57 | 2.64 | 0.66 | - | - | - |
| 1700 | - | - | - | 0.36 | 9.45 | 50.18 | 28.00 | 9.09 | 2.55 | 0.36 | - | - | - |
| 1800 | - | - | - | - | 11.15 | 48.70 | 27.88 | 8.18 | 3.72 | 0.37 | - | - | - |
| 1900 | - | - | - | - | 13.85 | 47.30 | 25.34 | 10.81 | 2.36 | 0.34 | - | - | - |
| 2000 | - | - | - | - | 15.27 | 45.04 | 25.57 | 11.07 | 2.67 | 0.38 | - | - | - |
| 2100 | - | - | - | 0.40 | 16.00 | 43.60 | 27.60 | 9.60 | 2.80 | - | - | - | - |
| 2200 | - | - | - | - | 17.56 | 44.80 | 26.16 | 8.60 | 2.51 | 0.36 | - | - | - |
| 2300 | - | - | - | 0.42 | 18.33 | 45.00 | 25.42 | 7.92 | 2.50 | 0.42 | - | - | - |
| MEAN | - | - | - | 0.12 | 11.34 | 41.01 | 32.02 | 10.90 | 3.85 | 0.71 | 0.05 | - | - |

Min temperature -5º to -0º (time 2300 UTC) – 0.42%

Max temperature 30º to 34º (time 1000 UTC) – 0.65%

Mean dominating temperature 5º to 9º – 41.01%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

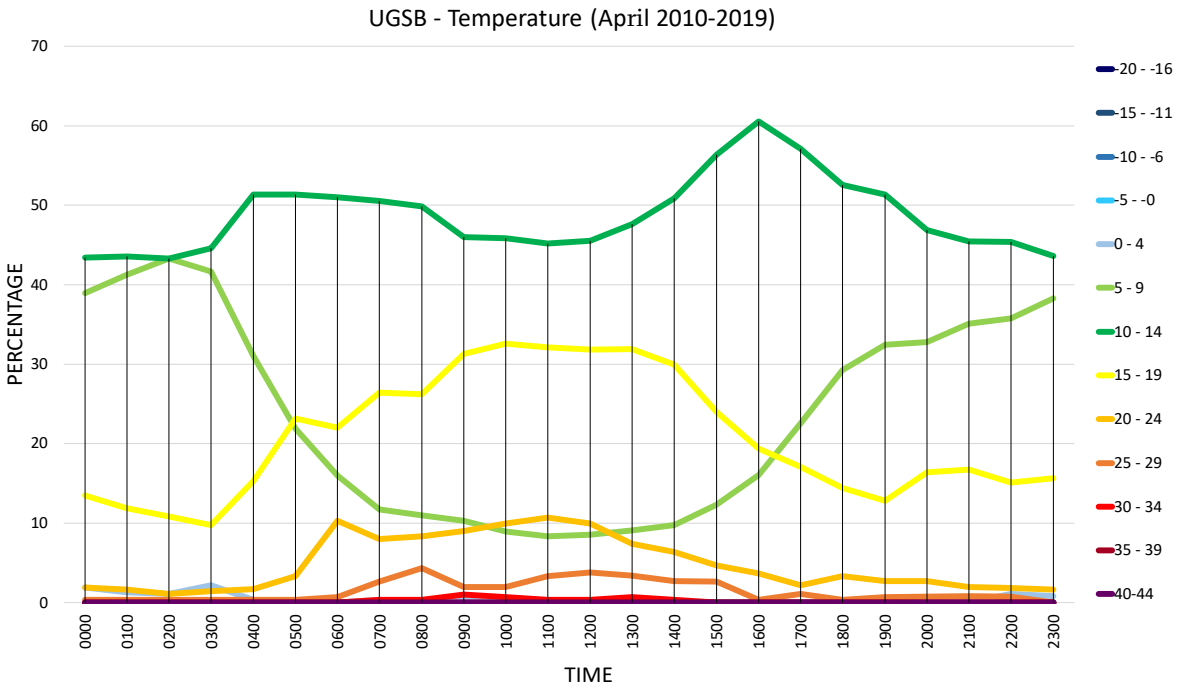
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | 1.87 | 38.95 | 43.45 | 13.48 | 1.87 | 0.37 | - | - | - |
| 0100 | - | - | - | - | 1.32 | 41.25 | 43.56 | 11.88 | 1.65 | 0.33 | - | - | - |
| 0200 | - | - | - | - | 1.12 | 43.28 | 43.28 | 10.82 | 1.12 | 0.37 | - | - | - |
| 0300 | - | - | - | - | 2.17 | 41.67 | 44.57 | 9.78 | 1.45 | 0.36 | - | - | - |
| 0400 | - | - | - | - | 0.33 | 31.00 | 51.33 | 15.33 | 1.67 | 0.33 | - | - | - |
| 0500 | - | - | - | - | - | 21.85 | 51.32 | 23.18 | 3.31 | 0.33 | - | - | - |
| 0600 | - | - | - | - | - | 16.00 | 51.00 | 22.00 | 10.33 | 0.67 | - | - | - |
| 0700 | - | - | - | - | 0.33 | 11.71 | 50.5 | 26.42 | 8.03 | 2.68 | 0.33 | - | - |
| 0800 | - | - | - | - | - | 10.96 | 49.83 | 26.25 | 8.31 | 4.32 | 0.33 | - | - |
| 0900 | - | - | - | - | 0.33 | 10.33 | 46.00 | 31.33 | 9.00 | 2.00 | 1.00 | - | - |
| 1000 | - | - | - | - | - | 8.97 | 45.85 | 32.56 | 9.97 | 1.99 | 0.66 | - | - |
| 1100 | - | - | - | - | - | 8.36 | 45.15 | 32.11 | 10.7 | 3.34 | 0.33 | - | - |
| 1200 | - | - | - | - | - | 8.56 | 45.55 | 31.85 | 9.93 | 3.77 | 0.34 | - | - |
| 1300 | - | - | - | - | - | 9.06 | 47.65 | 31.88 | 7.38 | 3.36 | 0.67 | - | - |
| 1400 | - | - | - | - | - | 9.76 | 50.84 | 29.97 | 6.4 | 2.69 | 0.34 | - | - |
| 1500 | - | - | - | - | - | 12.33 | 56.33 | 24.00 | 4.67 | 2.67 | - | - | - |
| 1600 | - | - | - | - | - | 16.05 | 60.54 | 19.4 | 3.68 | 0.33 | - | - | - |
| 1700 | - | - | - | - | - | 22.55 | 57.09 | 17.09 | 2.18 | 1.09 | - | - | - |
| 1800 | - | - | - | - | - | 29.26 | 52.59 | 14.44 | 3.33 | 0.37 | - | - | - |
| 1900 | - | - | - | - | - | 32.43 | 51.35 | 12.84 | 2.7 | 0.68 | - | - | - |
| 2000 | - | - | - | - | 0.39 | 32.81 | 46.88 | 16.41 | 2.73 | 0.78 | - | - | - |
| 2100 | - | - | - | - | - | 35.06 | 45.42 | 16.73 | 1.99 | 0.8 | - | - | - |
| 2200 | - | - | - | - | 1.11 | 35.79 | 45.39 | 15.13 | 1.85 | 0.74 | - | - | - |
| 2300 | - | - | - | - | 0.82 | 38.27 | 43.62 | 15.64 | 1.65 | - | - | - | - |
| MEAN | - | - | - | - | 0.39 | 23.06 | 48.82 | 21.12 | 4.95 | 1.47 | 0.17 | - | - |

Min temperature 0º to 4º (time 0300 UTC) – 2.17%

Max temperature 30º to 34º (time 0900 UTC) – 1.00%

Mean dominating temperature 10º to 14º – 48.82%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

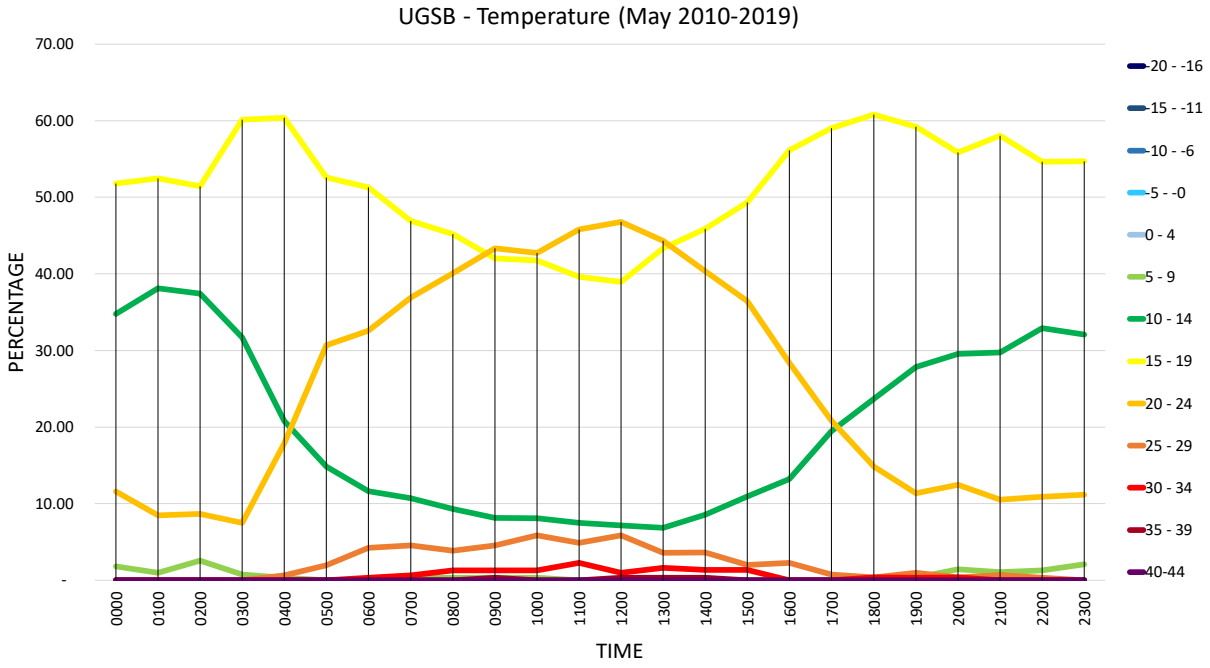
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | 1.81 | 34.78 | 51.81 | 11.59 | - | - | - | - |
| 0100 | - | - | - | - | - | 0.98 | 38.11 | 52.44 | 8.47 | - | - | - | - |
| 0200 | - | - | - | - | - | 2.52 | 37.41 | 51.44 | 8.63 | - | - | - | - |
| 0300 | - | - | - | - | - | 0.71 | 31.67 | 60.14 | 7.47 | - | - | - | - |
| 0400 | - | - | - | - | - | 0.32 | 20.78 | 60.39 | 17.86 | 0.65 | - | - | - |
| 0500 | - | - | - | - | - | - | 14.84 | 52.58 | 30.65 | 1.94 | - | - | - |
| 0600 | - | - | - | - | - | - | 11.61 | 51.29 | 32.58 | 4.19 | 0.32 | - | - |
| 0700 | - | - | - | - | - | 0.32 | 10.68 | 46.93 | 36.89 | 4.53 | 0.65 | - | - |
| 0800 | - | - | - | - | - | 0.32 | 9.29 | 45.19 | 40.06 | 3.85 | 1.28 | - | - |
| 0900 | - | - | - | - | - | 0.33 | 8.14 | 42.02 | 43.32 | 4.56 | 1.30 | 0.33 | - |
| 1000 | - | - | - | - | - | 0.32 | 8.09 | 41.75 | 42.72 | 5.83 | 1.29 | - | - |
| 1100 | - | - | - | - | - | - | 7.47 | 39.61 | 45.78 | 4.87 | 2.27 | - | - |
| 1200 | - | - | - | - | - | - | 7.14 | 38.96 | 46.75 | 5.84 | 0.97 | 0.32 | - |
| 1300 | - | - | - | - | - | - | 6.84 | 43.32 | 44.30 | 3.58 | 1.63 | 0.33 | - |
| 1400 | - | - | - | - | - | - | 8.52 | 45.90 | 40.33 | 3.61 | 1.31 | 0.33 | - |
| 1500 | - | - | - | - | - | - | 10.93 | 49.34 | 36.42 | 1.99 | 1.32 | - | - |
| 1600 | - | - | - | - | - | - | 13.23 | 56.13 | 28.39 | 2.26 | - | - | - |
| 1700 | - | - | - | - | - | - | 19.43 | 59.01 | 20.85 | 0.71 | - | - | - |
| 1800 | - | - | - | - | - | - | 23.67 | 60.78 | 14.84 | 0.35 | 0.35 | - | - |
| 1900 | - | - | - | - | - | 0.32 | 27.83 | 59.22 | 11.33 | 0.97 | 0.32 | - | - |
| 2000 | - | - | - | - | - | 1.42 | 29.54 | 55.87 | 12.46 | 0.36 | 0.36 | - | - |
| 2100 | - | - | - | - | - | 1.05 | 29.72 | 58.04 | 10.49 | 0.70 | - | - | - |
| 2200 | - | - | - | - | - | 1.28 | 32.91 | 54.63 | 10.86 | 0.32 | - | - | - |
| 2300 | - | - | - | - | - | 2.09 | 32.06 | 54.70 | 11.15 | - | - | - | - |
| MEAN | - | - | - | - | - | 0.56 | 19.49 | 51.18 | 25.97 | 2.18 | 0.57 | 0.06 | - |

Min temperature 5º to 9º (time 0200 UTC) – 2.52%

Max temperature 35º to 39º (time 0900, 1300 and 1400 UTC) – each 0.33%

Mean dominating temperature 15º to 19º – 51.18%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

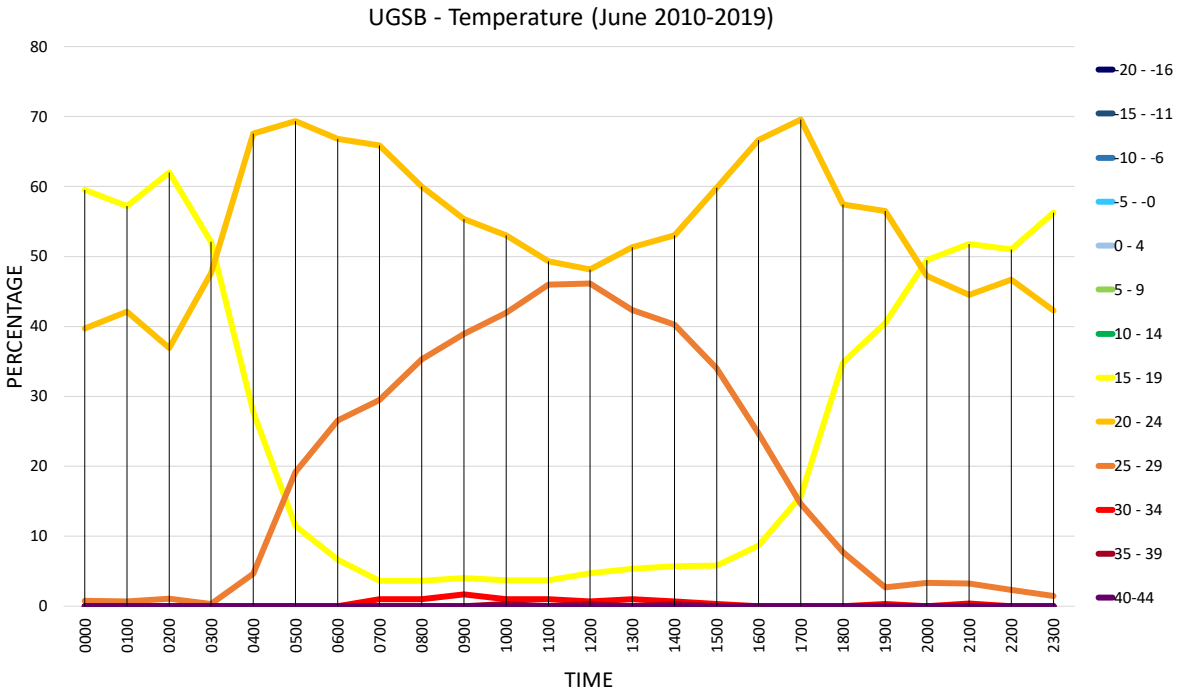
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | - | - | 59.55 | 39.7 | 0.75 | - | - | - |
| 0100 | - | - | - | - | - | - | - | 57.19 | 42.12 | 0.68 | - | - | - |
| 0200 | - | - | - | - | - | - | - | 61.99 | 36.9 | 1.11 | - | - | - |
| 0300 | - | - | - | - | - | - | - | 52.07 | 47.59 | 0.34 | - | - | - |
| 0400 | - | - | - | - | - | - | - | 27.76 | 67.56 | 4.68 | - | - | - |
| 0500 | - | - | - | - | - | - | - | 11.45 | 69.36 | 19.19 | - | - | - |
| 0600 | - | - | - | - | - | - | - | 6.64 | 66.78 | 26.58 | - | - | - |
| 0700 | - | - | - | - | - | - | - | 3.64 | 65.89 | 29.47 | 0.99 | - | - |
| 0800 | - | - | - | - | - | - | - | 3.67 | 60.00 | 35.33 | 1.00 | - | - |
| 0900 | - | - | - | - | - | - | - | 4.03 | 55.37 | 38.93 | 1.68 | - | - |
| 1000 | - | - | - | - | - | - | - | 3.69 | 53.02 | 41.95 | 1.01 | 0.34 | - |
| 1100 | - | - | - | - | - | - | - | 3.69 | 49.33 | 45.97 | 1.01 | - | - |
| 1200 | - | - | - | - | - | - | - | 4.71 | 48.15 | 46.13 | 0.67 | 0.34 | - |
| 1300 | - | - | - | - | - | - | - | 5.33 | 51.33 | 42.33 | 1.00 | - | - |
| 1400 | - | - | - | - | - | - | - | 5.70 | 53.02 | 40.27 | 0.67 | 0.34 | - |
| 1500 | - | - | - | - | - | - | - | 5.78 | 59.86 | 34.01 | 0.34 | - | - |
| 1600 | - | - | - | - | - | - | - | 8.67 | 66.67 | 24.67 | - | - | - |
| 1700 | - | - | - | - | - | - | - | 15.75 | 69.6 | 14.65 | - | - | - |
| 1800 | - | - | - | - | - | - | - | 34.81 | 57.41 | 7.78 | - | - | - |
| 1900 | - | - | - | - | - | - | - | 40.47 | 56.52 | 2.68 | 0.33 | - | - |
| 2000 | - | - | - | - | - | - | - | 49.45 | 47.25 | 3.3 | - | - | - |
| 2100 | - | - | - | - | - | - | - | 51.82 | 44.53 | 3.28 | 0.36 | - | - |
| 2200 | - | - | - | - | - | - | - | 51.00 | 46.67 | 2.33 | - | - | - |
| 2300 | - | - | - | - | - | - | - | 56.25 | 42.28 | 1.47 | - | - | - |
| MEAN | - | - | - | - | - | - | - | 25.41 | 54.23 | 19.93 | 0.39 | 0.04 | - |

Min temperature 15º to 19º (time 0200 UTC) – 61.99%

Max temperature 35º to 39º (time 1000, 1200 and 1400 UTC) – each 0.34%

Mean dominating temperature 20º to 24º – 54.23%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

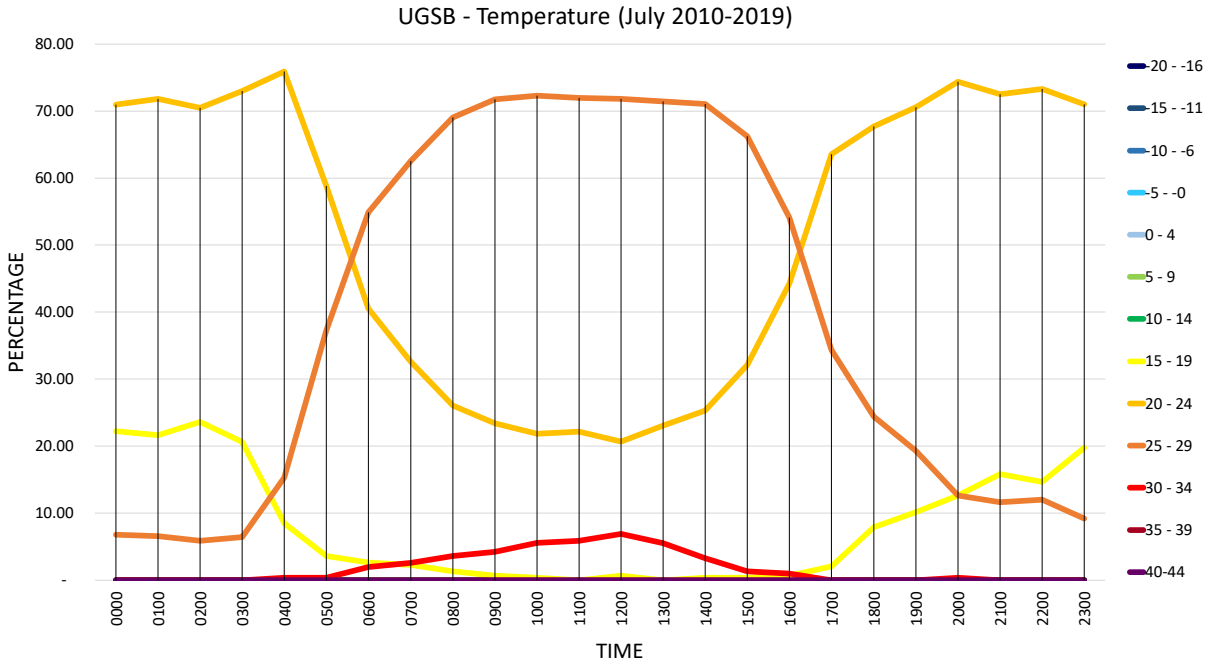
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | - | - | 22.22 | 70.97 | 6.81 | - | - | - |
| 0100 | - | - | - | - | - | - | - | 21.64 | 71.80 | 6.56 | - | - | - |
| 0200 | - | - | - | - | - | - | - | 23.61 | 70.49 | 5.90 | - | - | - |
| 0300 | - | - | - | - | - | - | - | 20.61 | 72.97 | 6.42 | - | - | - |
| 0400 | - | - | - | - | - | - | - | 8.47 | 75.90 | 15.31 | 0.33 | - | - |
| 0500 | - | - | - | - | - | - | - | 3.59 | 58.82 | 37.25 | 0.33 | - | - |
| 0600 | - | - | - | - | - | - | - | 2.61 | 40.52 | 54.90 | 1.96 | - | - |
| 0700 | - | - | - | - | - | - | - | 2.26 | 32.58 | 62.58 | 2.58 | - | - |
| 0800 | - | - | - | - | - | - | - | 1.30 | 26.06 | 69.06 | 3.58 | - | - |
| 0900 | - | - | - | - | - | - | - | 0.65 | 23.38 | 71.75 | 4.22 | - | - |
| 1000 | - | - | - | - | - | - | - | 0.33 | 21.82 | 72.31 | 5.54 | - | - |
| 1100 | - | - | - | - | - | - | - | - | 22.15 | 71.99 | 5.86 | - | - |
| 1200 | - | - | - | - | - | - | - | 0.66 | 20.66 | 71.80 | 6.89 | - | - |
| 1300 | - | - | - | - | - | - | - | - | 23.05 | 71.43 | 5.52 | - | - |
| 1400 | - | - | - | - | - | - | - | 0.33 | 25.33 | 71.05 | 3.29 | - | - |
| 1500 | - | - | - | - | - | - | - | 0.33 | 32.13 | 66.23 | 1.31 | - | - |
| 1600 | - | - | - | - | - | - | - | 0.66 | 44.26 | 54.10 | 0.98 | - | - |
| 1700 | - | - | - | - | - | - | - | 2.06 | 63.57 | 34.36 | - | - | - |
| 1800 | - | - | - | - | - | - | - | 7.90 | 67.70 | 24.40 | - | - | - |
| 1900 | - | - | - | - | - | - | - | 10.13 | 70.59 | 19.28 | - | - | - |
| 2000 | - | - | - | - | - | - | - | 12.63 | 74.39 | 12.63 | 0.35 | - | - |
| 2100 | - | - | - | - | - | - | - | 15.85 | 72.54 | 11.62 | - | - | - |
| 2200 | - | - | - | - | - | - | - | 14.67 | 73.33 | 12.00 | - | - | - |
| 2300 | - | - | - | - | - | - | - | 19.79 | 71.02 | 9.19 | - | - | - |
| MEAN | - | - | - | - | - | - | - | 7.83 | 50.63 | 39.72 | 1.82 | - | - |

Min temperature 15º to 19º (time 0200 UTC) – 23.61%

Max temperature 30º to 34º (time 1200 UTC) – 6.89%

Mean dominating temperature 20º to 24º – 50.63%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

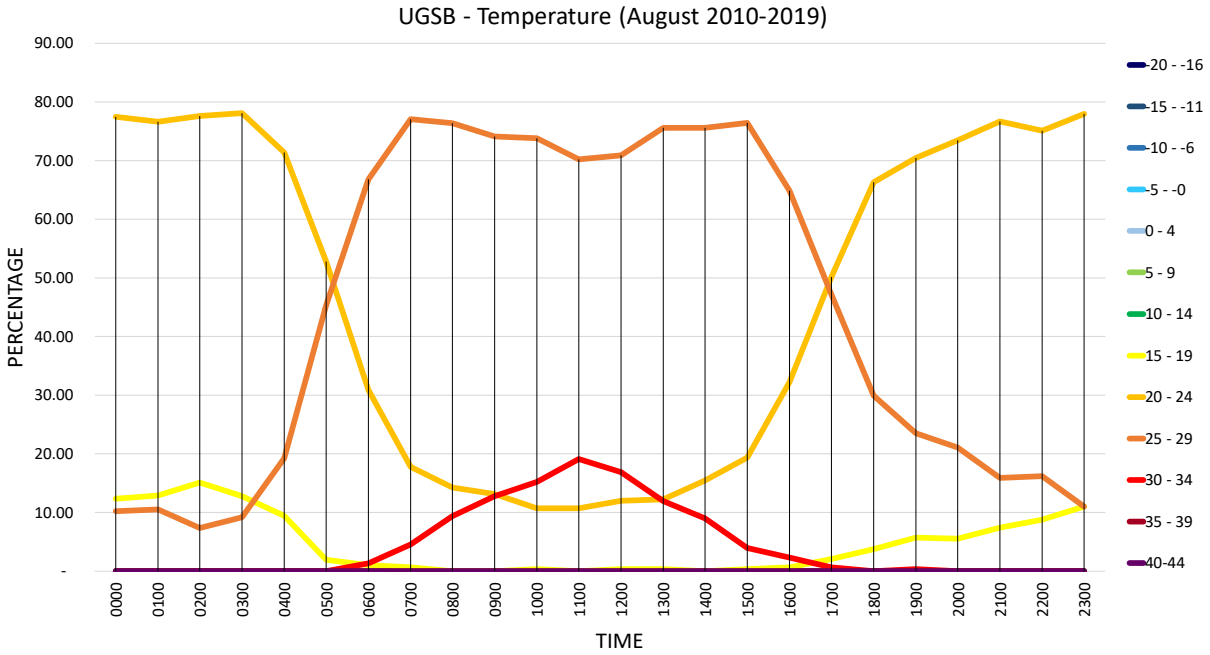
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | - | - | 12.32 | 77.46 | 10.21 | - | - | - |
| 0100 | - | - | - | - | - | - | - | 12.88 | 76.61 | 10.51 | - | - | - |
| 0200 | - | - | - | - | - | - | - | 15.09 | 77.54 | 7.37 | - | - | - |
| 0300 | - | - | - | - | - | - | - | 12.79 | 78.03 | 9.18 | - | - | - |
| 0400 | - | - | - | - | - | - | - | 9.45 | 71.34 | 19.22 | - | - | - |
| 0500 | - | - | - | - | - | - | - | 1.93 | 52.73 | 45.34 | - | - | - |
| 0600 | - | - | - | - | - | - | - | 1.00 | 30.90 | 66.78 | 1.33 | - | - |
| 0700 | - | - | - | - | - | - | - | 0.65 | 17.80 | 77.02 | 4.53 | - | - |
| 0800 | - | - | - | - | - | - | - | - | 14.24 | 76.38 | 9.39 | - | - |
| 0900 | - | - | - | - | - | - | - | - | 13.11 | 74.10 | 12.79 | - | - |
| 1000 | - | - | - | - | - | - | - | 0.32 | 10.68 | 73.79 | 15.21 | - | - |
| 1100 | - | - | - | - | - | - | - | - | 10.68 | 70.23 | 19.09 | - | - |
| 1200 | - | - | - | - | - | - | - | 0.32 | 11.97 | 70.87 | 16.83 | - | - |
| 1300 | - | - | - | - | - | - | - | 0.32 | 12.22 | 75.56 | 11.90 | - | - |
| 1400 | - | - | - | - | - | - | - | - | 15.43 | 75.56 | 9.00 | - | - |
| 1500 | - | - | - | - | - | - | - | 0.33 | 19.34 | 76.39 | 3.93 | - | - |
| 1600 | - | - | - | - | - | - | - | 0.65 | 32.25 | 64.82 | 2.28 | - | - |
| 1700 | - | - | - | - | - | - | - | 2.02 | 50.17 | 47.14 | 0.67 | - | - |
| 1800 | - | - | - | - | - | - | - | 3.78 | 66.32 | 29.90 | - | - | - |
| 1900 | - | - | - | - | - | - | - | 5.70 | 70.47 | 23.49 | 0.34 | - | - |
| 2000 | - | - | - | - | - | - | - | 5.52 | 73.45 | 21.03 | - | - | - |
| 2100 | - | - | - | - | - | - | - | 7.42 | 76.68 | 15.90 | - | - | - |
| 2200 | - | - | - | - | - | - | - | 8.75 | 75.08 | 16.16 | - | - | - |
| 2300 | - | - | - | - | - | - | - | 11.03 | 77.94 | 11.03 | - | - | - |
| MEAN | - | - | - | - | - | - | - | 4.56 | 45.65 | 45.19 | 4.59 | - | - |

Min temperature 15º to 19º (time 0200 UTC) – 15.09%

Max temperature 30º to 34º (time 1100 UTC) – 19.09%

Mean dominating temperature 20º to 24º – 45.65%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

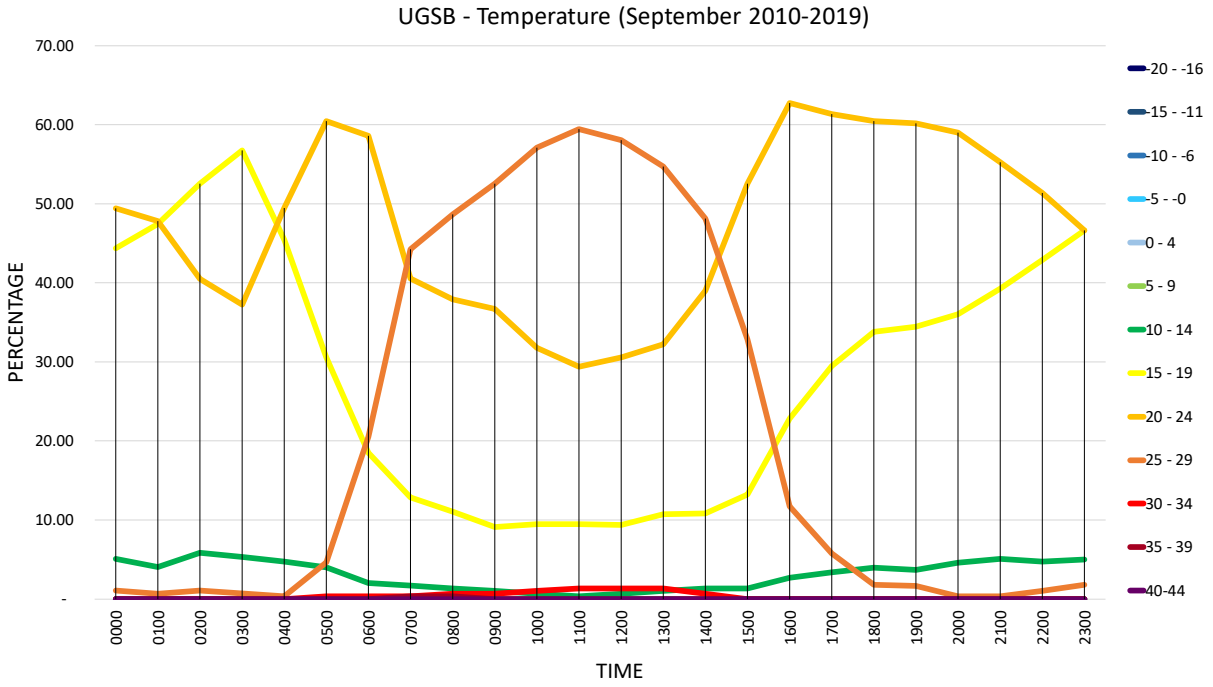
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | - | 5.09 | 44.36 | 49.45 | 1.09 | - | - | - |
| 0100 | - | - | - | - | - | - | 4.07 | 47.46 | 47.80 | 0.68 | - | - | - |
| 0200 | - | - | - | - | - | - | 5.84 | 52.55 | 40.51 | 1.09 | - | - | - |
| 0300 | - | - | - | - | - | - | 5.32 | 56.74 | 37.23 | 0.71 | - | - | - |
| 0400 | - | - | - | - | - | - | 4.71 | 45.45 | 49.49 | 0.34 | - | - | - |
| 0500 | - | - | - | - | - | - | 3.99 | 30.56 | 60.47 | 4.65 | 0.33 | - | - |
| 0600 | - | - | - | - | - | - | 2.02 | 18.52 | 58.59 | 20.54 | 0.34 | - | - |
| 0700 | - | - | - | - | - | - | 1.69 | 12.84 | 40.54 | 44.26 | 0.34 | 0.34 | - |
| 0800 | - | - | - | - | - | - | 1.34 | 11.07 | 37.92 | 48.66 | 0.67 | 0.34 | - |
| 0900 | - | - | - | - | - | - | 1.01 | 9.09 | 36.70 | 52.53 | 0.67 | - | - |
| 1000 | - | - | - | - | - | - | 0.68 | 9.46 | 31.76 | 57.09 | 1.01 | - | - |
| 1100 | - | - | - | - | - | - | 0.34 | 9.46 | 29.39 | 59.46 | 1.35 | - | - |
| 1200 | - | - | - | - | - | - | 0.67 | 9.40 | 30.54 | 58.05 | 1.34 | - | - |
| 1300 | - | - | - | - | - | - | 1.01 | 10.74 | 32.21 | 54.70 | 1.34 | - | - |
| 1400 | - | - | - | - | - | - | 1.36 | 10.85 | 38.98 | 48.14 | 0.68 | - | - |
| 1500 | - | - | - | - | - | - | 1.36 | 13.22 | 52.54 | 32.88 | - | - | - |
| 1600 | - | - | - | - | - | - | 2.68 | 22.82 | 62.75 | 11.74 | - | - | - |
| 1700 | - | - | - | - | - | - | 3.39 | 29.49 | 61.36 | 5.76 | - | - | - |
| 1800 | - | - | - | - | - | - | 3.96 | 33.81 | 60.43 | 1.80 | - | - | - |
| 1900 | - | - | - | - | - | - | 3.68 | 34.45 | 60.20 | 1.67 | - | - | - |
| 2000 | - | - | - | - | - | - | 4.59 | 36.04 | 59.01 | 0.35 | - | - | - |
| 2100 | - | - | - | - | - | - | 5.09 | 39.27 | 55.27 | 0.36 | - | - | - |
| 2200 | - | - | - | - | - | - | 4.73 | 42.91 | 51.35 | 1.01 | - | - | - |
| 2300 | - | - | - | - | - | - | 4.98 | 46.62 | 46.62 | 1.78 | - | - | - |
| MEAN | - | - | - | - | - | - | 3.03 | 27.92 | 47.09 | 21.59 | 0.34 | 0.03 | - |

Min temperature 10º to 14º (time 0200 UTC) – 5.84%

Max temperature 35º to 39º (time 0700 and 0800 UTC) – each 0.34%

Mean dominating temperature 20º to 24º – 47.09%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

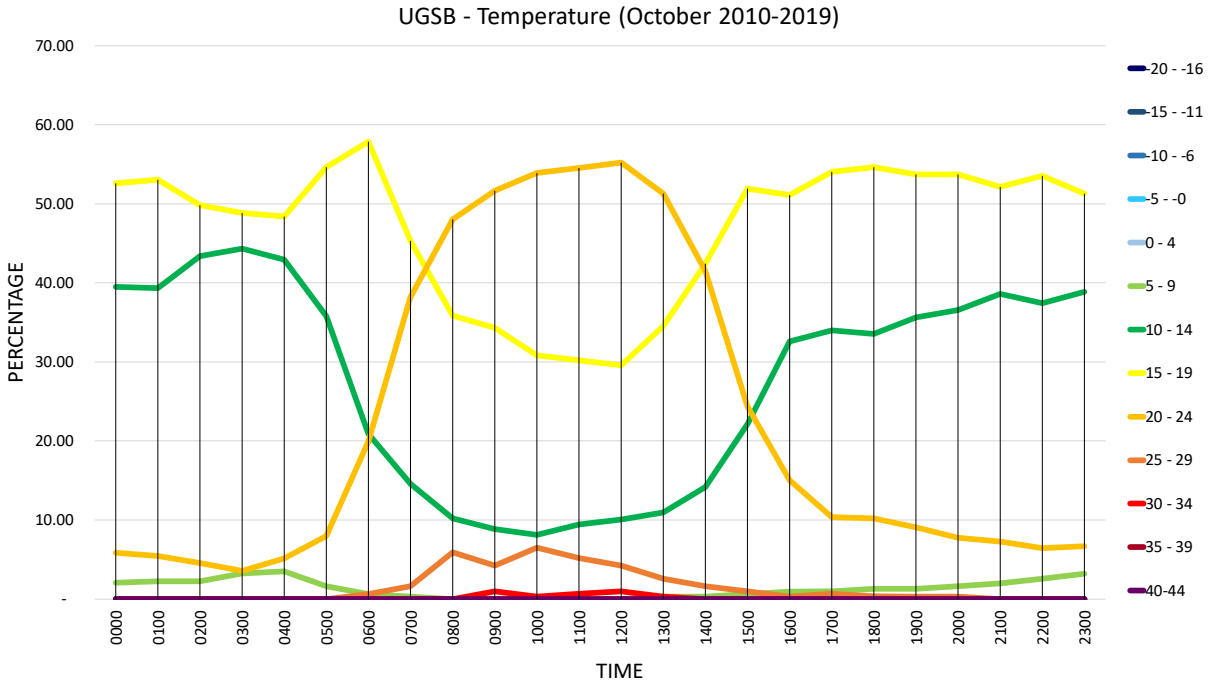
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | - | 2.06 | 39.52 | 52.58 | 5.84 | - | - | - | - |
| 0100 | - | - | - | - | - | 2.24 | 39.30 | 53.04 | 5.43 | - | - | - | - |
| 0200 | - | - | - | - | - | 2.27 | 43.37 | 49.84 | 4.53 | - | - | - | - |
| 0300 | - | - | - | - | - | 3.24 | 44.34 | 48.87 | 3.56 | - | - | - | - |
| 0400 | - | - | - | - | - | 3.53 | 42.95 | 48.40 | 5.13 | - | - | - | - |
| 0500 | - | - | - | - | - | 1.60 | 35.78 | 54.63 | 7.99 | - | - | - | - |
| 0600 | - | - | - | - | - | 0.64 | 20.90 | 57.88 | 19.94 | 0.64 | - | - | - |
| 0700 | - | - | - | - | - | 0.32 | 14.56 | 45.31 | 38.19 | 1.62 | - | - | - |
| 0800 | - | - | - | - | - | - | 10.20 | 35.86 | 48.03 | 5.92 | - | - | - |
| 0900 | - | - | - | - | - | - | 8.82 | 34.31 | 51.63 | 4.25 | 0.98 | - | - |
| 1000 | - | - | - | - | - | 0.32 | 8.12 | 30.84 | 53.90 | 6.49 | 0.32 | - | - |
| 1100 | - | - | - | - | - | - | 9.42 | 30.19 | 54.55 | 5.19 | 0.65 | - | - |
| 1200 | - | - | - | - | - | - | 10.06 | 29.55 | 55.19 | 4.22 | 0.97 | - | - |
| 1300 | - | - | - | - | - | 0.32 | 10.97 | 34.52 | 51.29 | 2.58 | 0.32 | - | - |
| 1400 | - | - | - | - | - | 0.32 | 14.15 | 42.44 | 41.48 | 1.61 | - | - | - |
| 1500 | - | - | - | - | - | 0.64 | 22.12 | 51.92 | 24.36 | 0.96 | - | - | - |
| 1600 | - | - | - | - | - | 0.96 | 32.59 | 51.12 | 15.02 | 0.32 | - | - | - |
| 1700 | - | - | - | - | - | 0.97 | 33.98 | 54.05 | 10.36 | 0.65 | - | - | - |
| 1800 | - | - | - | - | - | 1.32 | 33.55 | 54.61 | 10.20 | 0.33 | - | - | - |
| 1900 | - | - | - | - | - | 1.29 | 35.60 | 53.72 | 9.06 | 0.32 | - | - | - |
| 2000 | - | - | - | - | - | 1.62 | 36.57 | 53.72 | 7.77 | 0.32 | - | - | - |
| 2100 | - | - | - | - | - | 1.98 | 38.61 | 52.15 | 7.26 | - | - | - | - |
| 2200 | - | - | - | - | - | 2.58 | 37.42 | 53.55 | 6.45 | - | - | - | - |
| 2300 | - | - | - | - | - | 3.18 | 38.85 | 51.27 | 6.69 | - | - | - | - |
| MEAN | - | - | - | - | - | 1.31 | 27.58 | 46.86 | 22.65 | 1.47 | 0.14 | - | - |

Min temperature 5º to 9º (time 0400 UTC) – 3.53%

Max temperature 30º to 34º (time 0900 UTC) – 0.98%

Mean dominating temperature 15º to 19º – 46.86%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7200 OBSERVATION INTERVAL: 1 HOUR

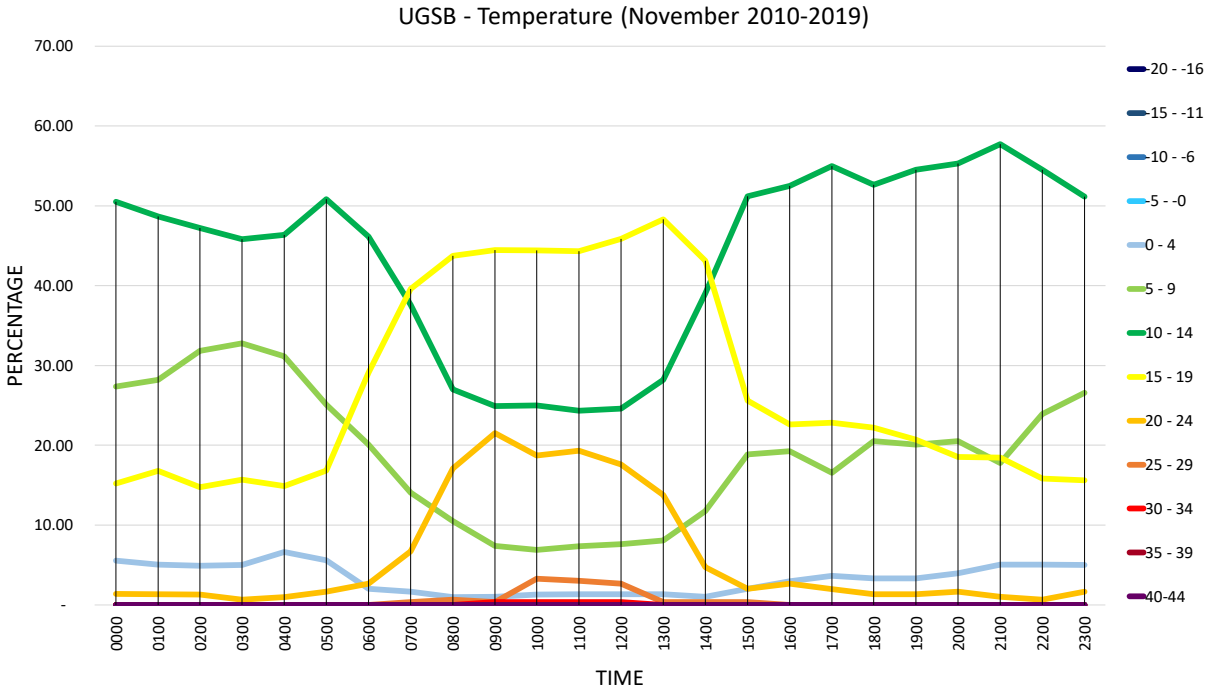
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | - | 5.54 | 27.34 | 50.52 | 15.22 | 1.38 | - | - | - | - |
| 0100 | - | - | - | - | 5.03 | 28.19 | 48.66 | 16.78 | 1.34 | - | - | - | - |
| 0200 | - | - | - | - | 4.92 | 31.80 | 47.21 | 14.75 | 1.31 | - | - | - | - |
| 0300 | - | - | - | - | 5.02 | 32.78 | 45.82 | 15.72 | 0.67 | - | - | - | - |
| 0400 | - | - | - | - | 6.62 | 31.13 | 46.36 | 14.90 | 0.99 | - | - | - | - |
| 0500 | - | - | - | - | 5.61 | 25.08 | 50.83 | 16.83 | 1.65 | - | - | - | - |
| 0600 | - | - | - | - | 2.01 | 20.07 | 46.15 | 29.10 | 2.68 | - | - | - | - |
| 0700 | - | - | - | - | 1.68 | 14.09 | 37.58 | 39.60 | 6.71 | 0.34 | - | - | - |
| 0800 | - | - | - | - | 0.99 | 10.53 | 26.97 | 43.75 | 17.11 | 0.66 | - | - | - |
| 0900 | - | - | - | - | 1.01 | 7.41 | 24.92 | 44.44 | 21.55 | 0.34 | 0.34 | - | - |
| 1000 | - | - | - | - | 1.32 | 6.91 | 25.00 | 44.41 | 18.75 | 3.29 | 0.33 | - | - |
| 1100 | - | - | - | - | 1.33 | 7.33 | 24.33 | 44.33 | 19.33 | 3.00 | 0.33 | - | - |
| 1200 | - | - | - | - | 1.33 | 7.64 | 24.58 | 45.85 | 17.61 | 2.66 | 0.33 | - | - |
| 1300 | - | - | - | - | 1.34 | 8.05 | 28.19 | 48.32 | 13.76 | 0.34 | - | - | - |
| 1400 | - | - | - | - | 1.01 | 11.78 | 39.06 | 43.10 | 4.71 | 0.34 | - | - | - |
| 1500 | - | - | - | - | 2.02 | 18.86 | 51.18 | 25.59 | 2.02 | 0.34 | - | - | - |
| 1600 | - | - | - | - | 2.99 | 19.27 | 52.49 | 22.59 | 2.66 | - | - | - | - |
| 1700 | - | - | - | - | 3.64 | 16.56 | 54.97 | 22.85 | 1.99 | - | - | - | - |
| 1800 | - | - | - | - | 3.31 | 20.53 | 52.65 | 22.19 | 1.32 | - | - | - | - |
| 1900 | - | - | - | - | 3.34 | 20.07 | 54.52 | 20.74 | 1.34 | - | - | - | - |
| 2000 | - | - | - | - | 3.97 | 20.53 | 55.30 | 18.54 | 1.66 | - | - | - | - |
| 2100 | - | - | - | - | 5.03 | 17.79 | 57.72 | 18.46 | 1.01 | - | - | - | - |
| 2200 | - | - | - | - | 5.05 | 23.91 | 54.55 | 15.82 | 0.67 | - | - | - | - |
| 2300 | - | - | - | - | 4.98 | 26.58 | 51.16 | 15.61 | 1.66 | - | - | - | - |
| MEAN | - | - | - | - | 3.29 | 18.92 | 43.76 | 27.49 | 6.01 | 0.47 | 0.06 | - | - |

Min temperature 0º to 4º (time 0400 UTC) – 6.62%

Max temperature 30º to 34º (time 0900 UTC) – 0.34%

Mean dominating temperature 10º to 14º – 43.76%



**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGSB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 7440 OBSERVATION INTERVAL: 1 HOUR

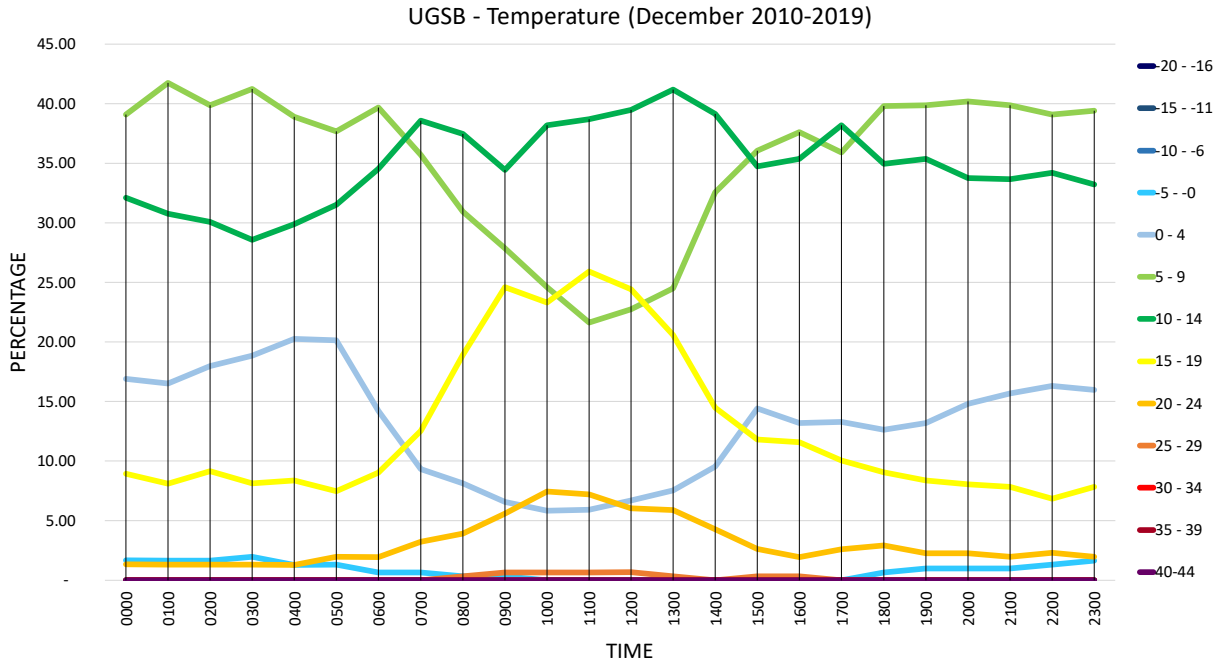
LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | Negative Temperature ºC | | | | Positive Temperature ºC | | | | | | | | |
| | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| 0000 | - | - | - | 1.66 | 16.89 | 39.07 | 32.12 | 8.94 | 1.32 | - | - | - | - |
| 0100 | - | - | - | 1.62 | 16.50 | 41.75 | 30.74 | 8.09 | 1.29 | - | - | - | - |
| 0200 | - | - | - | 1.63 | 17.97 | 39.87 | 30.07 | 9.15 | 1.31 | - | - | - | - |
| 0300 | - | - | - | 1.95 | 18.83 | 41.23 | 28.57 | 8.12 | 1.30 | - | - | - | - |
| 0400 | - | - | - | 1.29 | 20.26 | 38.91 | 29.90 | 8.36 | 1.29 | - | - | - | - |
| 0500 | - | - | - | 1.30 | 20.13 | 37.66 | 31.49 | 7.47 | 1.95 | - | - | - | - |
| 0600 | - | - | - | 0.65 | 14.19 | 39.68 | 34.52 | 9.03 | 1.94 | - | - | - | - |
| 0700 | - | - | - | 0.64 | 9.32 | 35.69 | 38.59 | 12.54 | 3.22 | - | - | - | - |
| 0800 | - | - | - | 0.33 | 8.14 | 30.94 | 37.46 | 18.89 | 3.91 | 0.33 | - | - | - |
| 0900 | - | - | - | 0.33 | 6.56 | 27.87 | 34.43 | 24.59 | 5.57 | 0.66 | - | - | - |
| 1000 | - | - | - | - | 5.83 | 24.60 | 38.19 | 23.30 | 7.44 | 0.65 | - | - | - |
| 1100 | - | - | - | - | 5.90 | 21.64 | 38.69 | 25.90 | 7.21 | 0.66 | - | - | - |
| 1200 | - | - | - | - | 6.69 | 22.74 | 39.46 | 24.41 | 6.02 | 0.67 | - | - | - |
| 1300 | - | - | - | - | 7.52 | 24.51 | 41.18 | 20.59 | 5.88 | 0.33 | - | - | - |
| 1400 | - | - | - | - | 9.54 | 32.57 | 39.14 | 14.47 | 4.28 | - | - | - | - |
| 1500 | - | - | - | - | 14.43 | 36.07 | 34.75 | 11.80 | 2.62 | 0.33 | - | - | - |
| 1600 | - | - | - | - | 13.18 | 37.62 | 35.37 | 11.58 | 1.93 | 0.32 | - | - | - |
| 1700 | - | - | - | - | 13.27 | 35.92 | 38.19 | 10.03 | 2.59 | - | - | - | - |
| 1800 | - | - | - | 0.65 | 12.62 | 39.81 | 34.95 | 9.06 | 2.91 | - | - | - | - |
| 1900 | - | - | - | 0.96 | 13.18 | 39.87 | 35.37 | 8.36 | 2.25 | - | - | - | - |
| 2000 | - | - | - | 0.96 | 14.79 | 40.19 | 33.76 | 8.04 | 2.25 | - | - | - | - |
| 2100 | - | - | - | 0.98 | 15.69 | 39.87 | 33.66 | 7.84 | 1.96 | - | - | - | - |
| 2200 | - | - | - | 1.30 | 16.29 | 39.09 | 34.20 | 6.84 | 2.28 | - | - | - | - |
| 2300 | - | - | - | 1.63 | 15.96 | 39.41 | 33.22 | 7.82 | 1.95 | - | - | - | - |
| MEAN | - | - | - | 0.74 | 13.07 | 35.27 | 34.92 | 12.72 | 3.11 | 0.16 | - | - | - |

Min temperature -5º to -0º (time 0300 UTC) – 1.95%

Max temperature 25º to 29º (time 1200 UTC) – 0.67%

Mean dominating temperature 5º to 9º – 35.27%



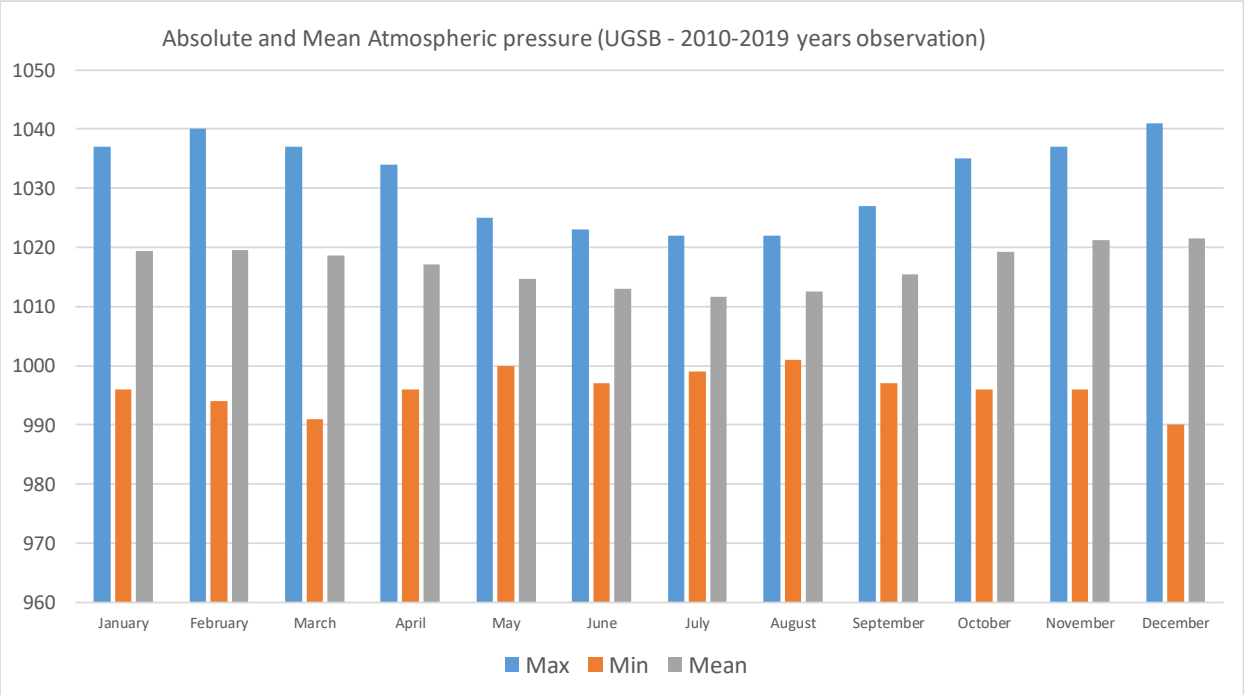
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL F**
**TABULAR FORM**

AERODROME: UGSB MONTHLY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 162192 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Absolute and Mean Atmospheric pressure (UGSB - MAX, MIN, MEAN based on 9 year observation) | | | |
|---|---|---|---|
| Pressure (HPA) | | | |
| Month | Max | Min | Mean |
| January | 1037 | 996 | 1019 |
| February | 1040 | 994 | 1019 |
| March | 1037 | 991 | 1019 |
| April | 1034 | 996 | 1017 |
| May | 1025 | 1000 | 1015 |
| June | 1023 | 997 | 1013 |
| July | 1022 | 999 | 1012 |
| August | 1022 | 1001 | 1013 |
| September | 1027 | 997 | 1015 |
| October | 1035 | 996 | 1019 |
| November | 1037 | 996 | 1021 |
| December | 1041 | 990 | 1021 |




Based on the Ten-year observation in Batumi international airport (UGSB):

The Maximum absolute pressure of atmosphere - QNH detected in December - 1041 HPA;

The Minimum absolute pressure of atmosphere - QNH detected in December - 990 HPA.

## AERONAUTICAL CLIMATOLOGY

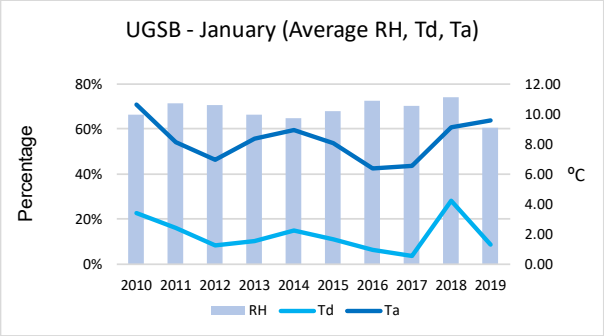
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL G**
**TABULAR FORM**

AERODROME: UGSB OBSERVATION INTERVAL: 1 HOUR PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

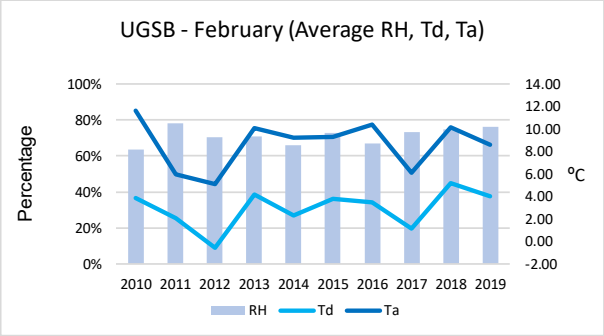
### JANUARY
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGSB January (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 66.43% | 3.39 | 10.61 |
| 2011 | 71.58% | 2.43 | 8.13 |
| 2012 | 70.56% | 1.23 | 6.94 |
| 2013 | 66.44% | 1.53 | 8.37 |
| 2014 | 64.97% | 2.21 | 8.96 |
| 2015 | 68.03% | 1.67 | 8.06 |
| 2016 | 72.71% | 0.98 | 6.35 |
| 2017 | 70.22% | 0.55 | 6.53 |
| 2018 | 74.11% | 4.21 | 9.13 |
| 2019 | 60.67% | 1.28 | 9.56 |



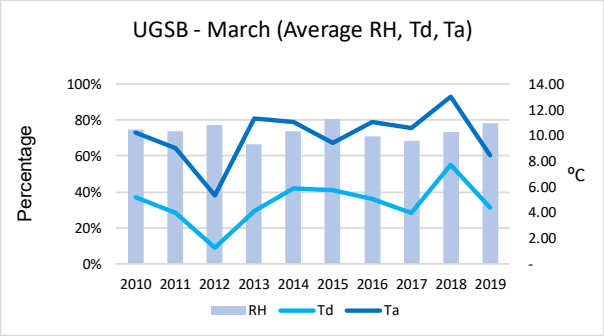

### FEBRUARY
TOTAL NUMBER OF OBSERVATIONS: 6768

| UGSB February (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 63.47% | 3.87 | 11.59 |
| 2011 | 77.95% | 2.10 | 5.98 |
| 2012 | 70.29% | -0.55 | 5.10 |
| 2013 | 71.02% | 4.13 | 10.08 |
| 2014 | 65.99% | 2.34 | 9.25 |
| 2015 | 72.82% | 3.77 | 9.30 |
| 2016 | 66.80% | 3.49 | 10.42 |
| 2017 | 73.23% | 1.13 | 6.11 |
| 2018 | 74.79% | 5.21 | 10.13 |
| 2019 | 76.37% | 4.02 | 8.60 |



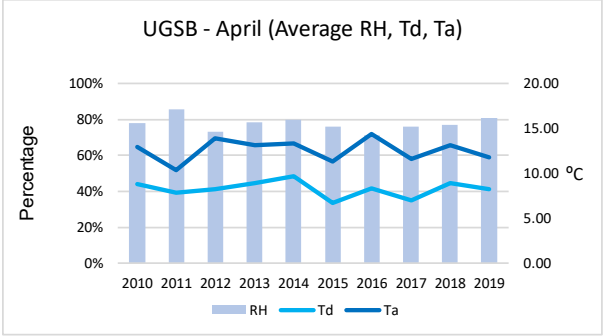

### MARCH
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGSB March (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 74.53% | 5.23 | 10.21 |
| 2011 | 73.91% | 3.96 | 8.98 |
| 2012 | 77.03% | 1.26 | 5.34 |
| 2013 | 66.49% | 4.12 | 11.34 |
| 2014 | 73.94% | 5.89 | 11.02 |
| 2015 | 80.39% | 5.74 | 9.39 |
| 2016 | 70.81% | 5.05 | 11.07 |
| 2017 | 68.64% | 4.00 | 10.58 |
| 2018 | 73.41% | 7.68 | 13.02 |
| 2019 | 78.00% | 4.41 | 8.44 |



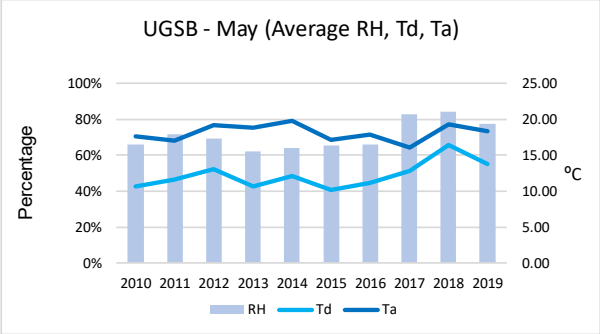

### APRIL
TOTAL NUMBER OF OBSERVATIONS: 7200

| UGSB April (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2010 | 78.07% | 8.82 | 12.97 |
| 2011 | 85.52% | 7.82 | 10.34 |
| 2012 | 73.24% | 8.20 | 13.87 |
| 2013 | 78.29% | 8.93 | 13.10 |
| 2014 | 80.05% | 9.64 | 13.31 |
| 2015 | 76.09% | 6.74 | 11.30 |
| 2016 | 71.25% | 8.37 | 14.34 |
| 2017 | 76.11% | 7.00 | 11.59 |
| 2018 | 77.22% | 8.94 | 13.16 |
| 2019 | 80.82% | 8.26 | 11.82 |



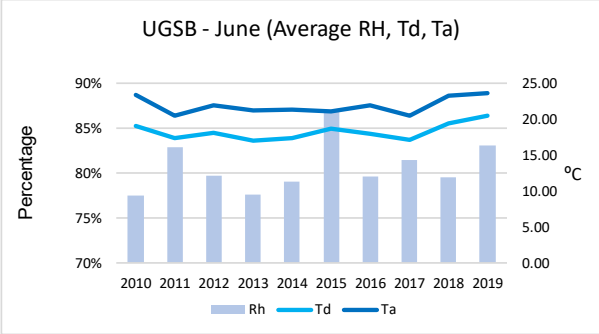
**MAY**
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGSB May (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 75.12% | 13.48 | 18.35 |
| 2011 | 83.91% | 10.73 | 13.59 |
| 2012 | 82.72% | 15.37 | 18.57 |
| 2013 | 78.90% | 15.01 | 19.05 |
| 2014 | 80.77% | 14.38 | 18.07 |
| 2015 | 83.47% | 13.30 | 16.31 |
| 2016 | 81.79% | 13.53 | 16.85 |
| 2017 | 82.52% | 12.84 | 16.07 |
| 2018 | 83.95% | 16.39 | 19.29 |
| 2019 | 77.38% | 13.84 | 18.30 |



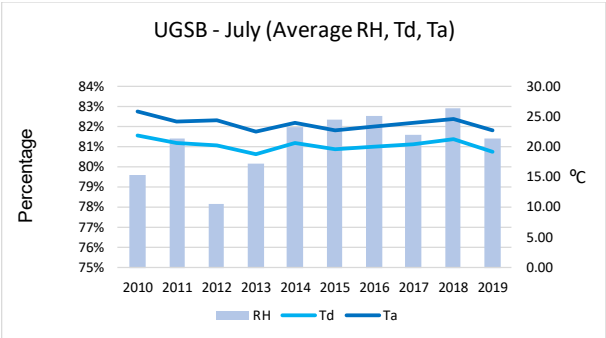

**JUNE**
TOTAL NUMBER OF OBSERVATIONS: 7200

| UGSB June (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 77.53% | 19.08 | 23.43 |
| 2011 | 82.86% | 17.36 | 20.52 |
| 2012 | 79.69% | 18.16 | 21.96 |
| 2013 | 77.64% | 17.01 | 21.22 |
| 2014 | 79.03% | 17.33 | 21.34 |
| 2015 | 86.87% | 18.72 | 21.05 |
| 2016 | 79.67% | 17.96 | 21.89 |
| 2017 | 81.50% | 17.10 | 20.48 |
| 2018 | 79.57% | 19.40 | 23.24 |
| 2019 | 83.12% | 20.53 | 23.66 |



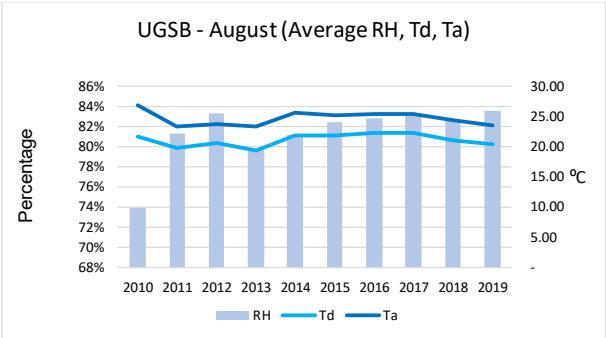

**JULY**
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGSB July (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 79.62% | 21.95 | 25.86 |
| 2011 | 81.41% | 20.68 | 24.17 |
| 2012 | 78.17% | 20.15 | 24.32 |
| 2013 | 80.13% | 18.74 | 22.45 |
| 2014 | 82.00% | 20.57 | 23.98 |
| 2015 | 82.34% | 19.50 | 22.78 |
| 2016 | 82.54% | 20.07 | 23.32 |
| 2017 | 81.59% | 20.35 | 23.91 |
| 2018 | 82.90% | 21.34 | 24.54 |
| 2019 | 81.40% | 19.24 | 22.74 |



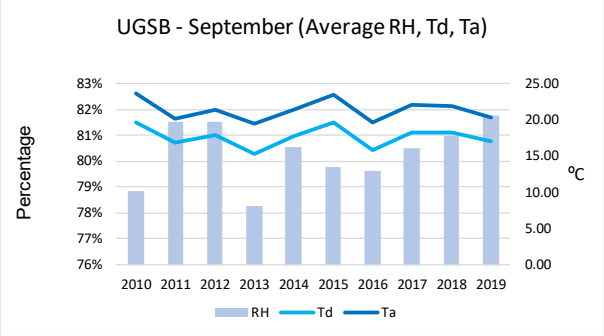

**AUGUST**
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGSB August (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 73.95% | 21.69 | 26.90 |
| 2011 | 81.38% | 19.75 | 23.25 |
| 2012 | 83.33% | 20.55 | 23.65 |
| 2013 | 79.84% | 19.45 | 23.25 |
| 2014 | 81.23% | 21.87 | 25.53 |
| 2015 | 82.45% | 21.86 | 25.19 |
| 2016 | 82.87% | 22.27 | 25.49 |
| 2017 | 82.45% | 22.34 | 25.51 |
| 2018 | 82.73% | 21.06 | 24.28 |
| 2019 | 83.57% | 20.51 | 23.56 |



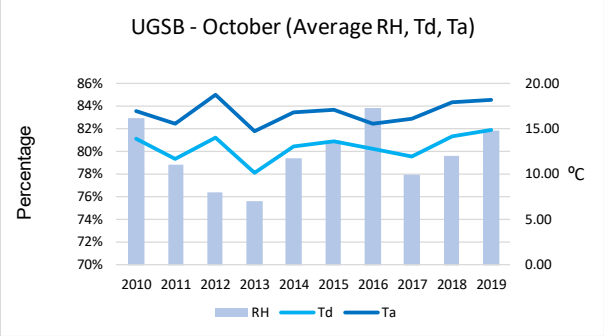
**SEPTEMBER**
TOTAL NUMBER OF OBSERVATIONS: 7200

| UGSB September (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 78.86% | 19.57 | 23.68 |
| 2011 | 81.52% | 16.80 | 20.19 |
| 2012 | 81.51% | 17.96 | 21.39 |
| 2013 | 78.25% | 15.34 | 19.51 |
| 2014 | 80.55% | 17.75 | 21.43 |
| 2015 | 79.75% | 19.67 | 23.50 |
| 2016 | 79.61% | 15.81 | 19.66 |
| 2017 | 80.47% | 18.29 | 21.99 |
| 2018 | 80.97% | 18.28 | 21.99 |
| 2019 | 81.75% | 16.98 | 20.35 |



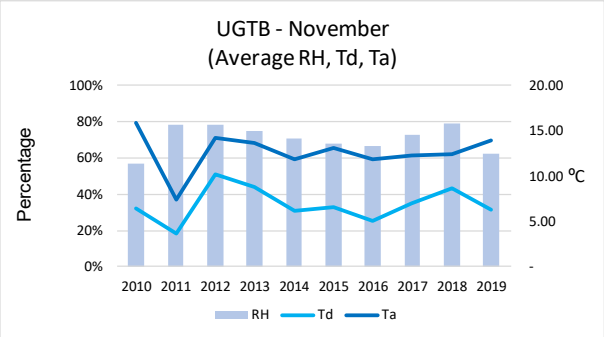

**OCTOBER**
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGSB October (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 82.91% | 13.85 | 16.96 |
| 2011 | 78.85% | 11.63 | 15.55 |
| 2012 | 76.42% | 14.09 | 18.76 |
| 2013 | 75.65% | 10.11 | 14.73 |
| 2014 | 79.43% | 13.06 | 16.83 |
| 2015 | 80.97% | 13.61 | 17.12 |
| 2016 | 83.80% | 12.71 | 15.58 |
| 2017 | 77.99% | 12.02 | 16.18 |
| 2018 | 79.65% | 14.15 | 17.93 |
| 2019 | 81.81% | 14.80 | 18.15 |



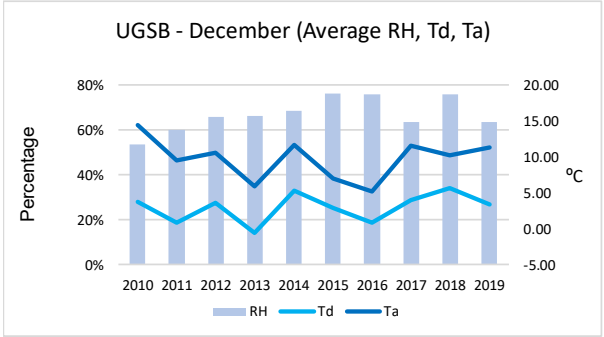

**NOVEMBER**
TOTAL NUMBER OF OBSERVATIONS: 7200

| UGSB November (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 56.75% | 6.44 | 15.87 |
| 2011 | 78.31% | 3.68 | 7.39 |
| 2012 | 78.48% | 10.17 | 14.15 |
| 2013 | 74.59% | 8.73 | 13.68 |
| 2014 | 70.83% | 6.15 | 11.79 |
| 2015 | 68.10% | 6.53 | 13.13 |
| 2016 | 66.66% | 4.99 | 11.82 |
| 2017 | 72.87% | 6.95 | 12.21 |
| 2018 | 79.11% | 8.61 | 12.39 |
| 2019 | 62.43% | 6.25 | 13.93 |




**DECEMBER**
TOTAL NUMBER OF OBSERVATIONS: 7440

| UGSB December (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2010 | 53.37% | 3.77 | 14.42 |
| 2011 | 60.14% | 0.90 | 9.51 |
| 2012 | 65.71% | 3.64 | 10.64 |
| 2013 | 66.22% | -0.54 | 5.92 |
| 2014 | 68.43% | 5.37 | 11.73 |
| 2015 | 76.12% | 2.90 | 7.04 |
| 2016 | 75.80% | 0.92 | 5.24 |
| 2017 | 63.43% | 3.95 | 11.60 |
| 2018 | 75.80% | 5.62 | 10.20 |
| 2019 | 63.52% | 3.39 | 11.33 |



**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

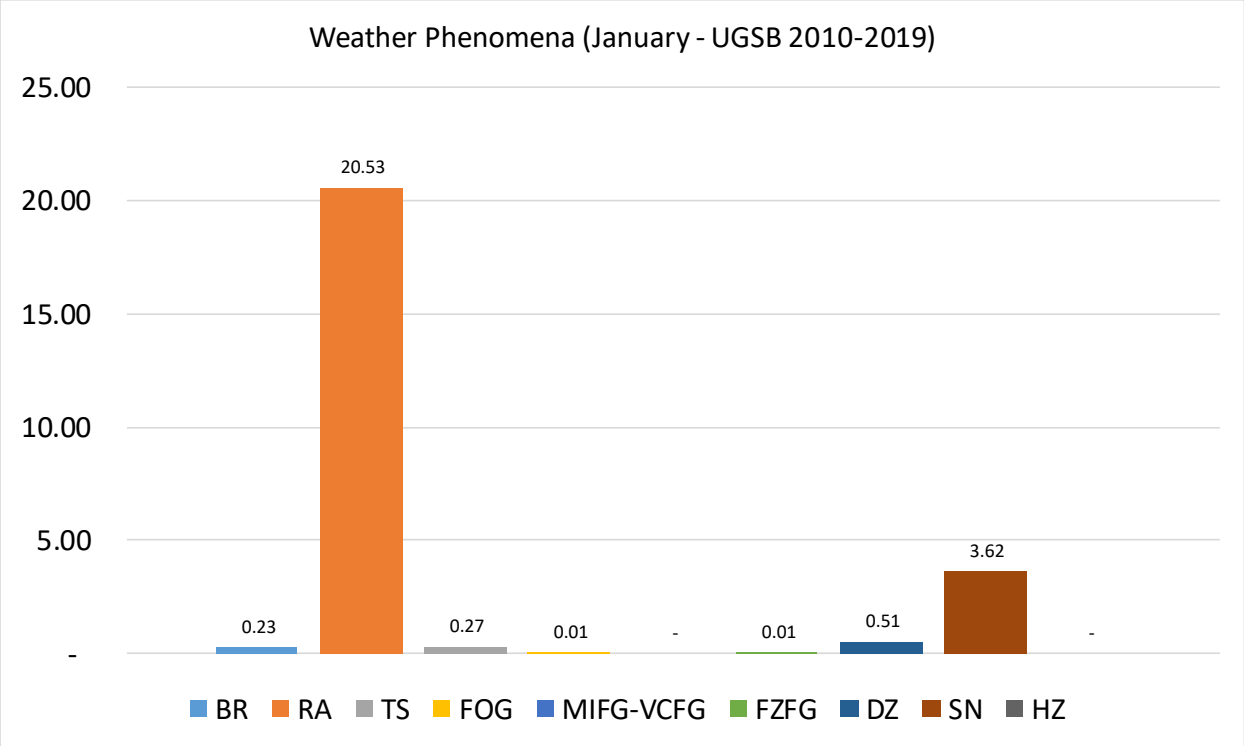
AERODROME: UGSB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | - | 23.13 | 0.71 | - | - | - | 0.71 | 4.63 | - |
| 0030 | - | 18.95 | 0.81 | - | - | - | 2.82 | 4.44 | - |
| 0100 | 0.33 | 20.33 | 0.98 | - | - | - | 1.31 | 2.95 | - |
| 0130 | - | 17.86 | 0.40 | - | - | - | 1.98 | 3.97 | - |
| 0200 | - | 20.28 | - | - | - | - | 1.78 | 3.91 | - |
| 0230 | 1.61 | 20.08 | 0.40 | - | - | - | 1.20 | 4.42 | - |
| 0300 | 0.36 | 20.28 | 0.71 | - | - | - | 1.42 | 4.98 | - |
| 0330 | - | 19.51 | 0.81 | - | - | - | - | 4.07 | - |
| 0400 | - | 22.73 | 0.65 | - | - | - | 0.32 | 3.90 | - |
| 0430 | - | 22.04 | 0.82 | - | - | - | - | 3.27 | - |
| 0500 | - | 22.48 | 0.65 | - | - | - | - | 3.58 | - |
| 0530 | - | 19.12 | 0.40 | - | - | - | 0.40 | 4.78 | - |
| 0600 | - | 19.94 | 0.32 | - | - | - | - | 3.54 | - |
| 0630 | - | 21.77 | 0.40 | - | - | - | - | 4.03 | - |
| 0700 | - | 19.42 | - | - | - | - | - | 3.24 | - |
| 0730 | - | 18.55 | - | - | - | - | 0.40 | 4.03 | - |
| 0800 | - | 19.02 | - | - | - | - | - | 3.28 | - |
| 0830 | 0.40 | 20.65 | - | - | - | - | - | 4.45 | - |
| 0900 | 0.65 | 20.78 | - | - | - | - | 0.32 | 2.92 | - |
| 0930 | 1.20 | 19.28 | - | - | - | - | 0.40 | 4.02 | - |
| 1000 | 0.65 | 18.89 | - | - | - | - | 0.33 | 1.95 | - |
| 1030 | 0.41 | 20.49 | - | - | - | - | 0.41 | 2.87 | - |
| 1100 | 0.64 | 20.77 | - | - | - | - | 0.32 | 2.88 | - |
| 1130 | - | 20.82 | - | - | - | - | 0.41 | 4.49 | - |
| 1200 | 0.33 | 20.20 | - | - | - | - | - | 4.23 | - |
| 1230 | - | 20.56 | - | - | - | - | - | 4.84 | - |
| 1300 | 0.65 | 21.57 | - | - | - | - | 0.33 | 2.94 | - |
| 1330 | - | 21.20 | 0.40 | - | - | - | 0.40 | 4.00 | - |
| 1400 | 0.65 | 20.92 | - | - | - | - | - | 3.27 | - |
| 1430 | - | 22.67 | - | - | - | - | - | 3.64 | - |
| 1500 | 0.33 | 22.52 | - | - | - | - | - | 3.97 | - |
| 1530 | 0.40 | 21.37 | - | - | - | - | - | 4.03 | - |
| 1600 | 0.66 | 22.30 | - | - | - | 0.33 | - | 3.93 | - |
| 1630 | - | 21.86 | - | 0.40 | - | - | - | 4.45 | - |
| 1700 | 0.35 | 22.81 | 0.35 | - | - | - | - | 3.16 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.40 | 19.28 | 0.40 | - | - | - | - | 2.41 | - |
| 1800 | - | 20.14 | - | - | - | - | - | 2.16 | - |
| 1830 | - | 20.41 | 0.41 | - | - | - | - | 2.04 | - |
| 1900 | - | 20.59 | 0.65 | - | - | - | - | 2.94 | - |
| 1930 | - | 19.11 | - | - | - | - | - | 2.85 | - |
| 2000 | - | 20.22 | 0.37 | - | - | - | 1.10 | 2.57 | - |
| 2030 | - | 18.70 | 0.81 | - | - | - | 2.03 | 2.85 | - |
| 2100 | 0.37 | 19.10 | 0.37 | - | - | - | 2.62 | 3.00 | - |
| 2130 | 0.40 | 20.24 | - | - | - | - | 2.02 | 2.83 | - |
| 2200 | 0.36 | 19.42 | 0.36 | - | - | - | 0.36 | 3.60 | - |
| 2230 | - | 18.88 | - | - | - | - | - | 4.42 | - |
| 2300 | - | 21.60 | - | - | - | - | - | 4.40 | - |
| 2330 | - | 22.45 | 0.82 | - | - | - | 1.22 | 4.49 | - |
| Mean | 0.23 | 20.53 | 0.27 | 0.01 | - | 0.01 | 0.51 | 3.62 | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in January are: rain – 20.53%, snow – 3.62%, drizzle – 0.51%.

The activity of thunderstorms in January constitutes 0.27%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

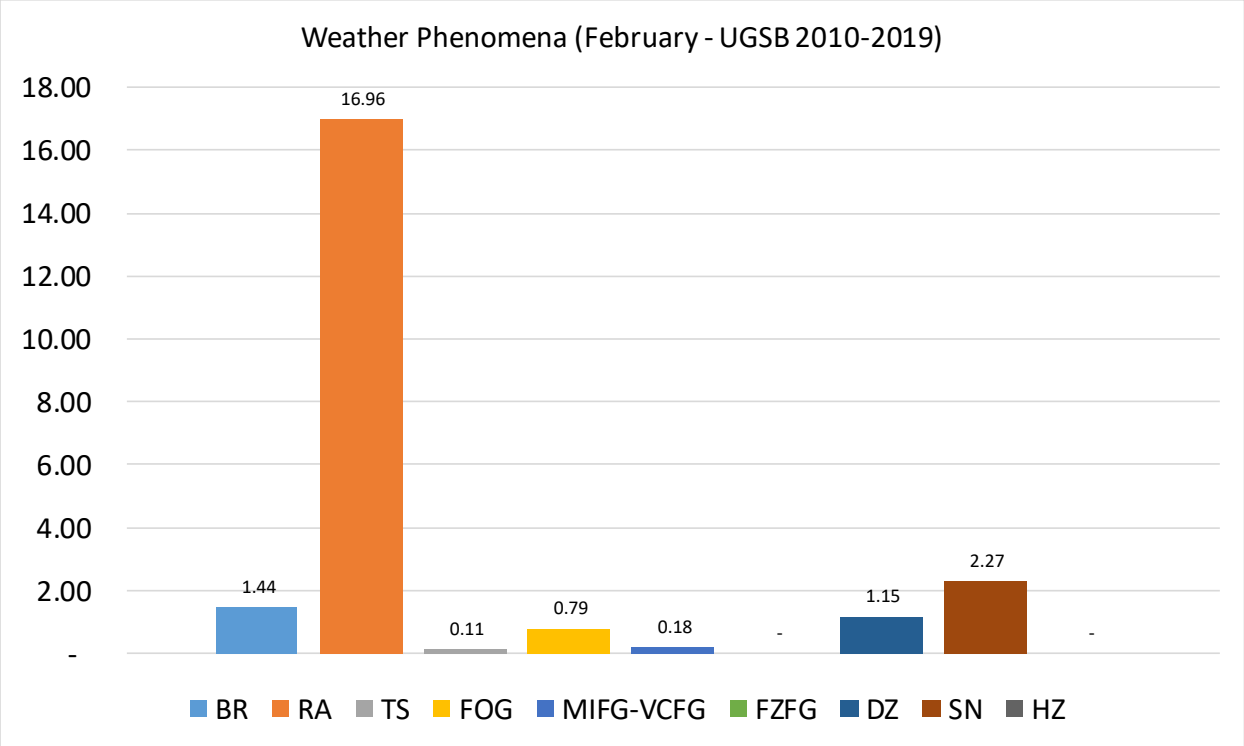
AERODROME: UGSB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12192 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 2.38 | 19.84 | - | 0.79 | - | - | 1.98 | 2.78 | - |
| 0030 | 2.23 | 16.52 | - | 0.89 | - | - | 4.02 | 2.23 | - |
| 0100 | 1.05 | 20.35 | - | 0.70 | - | - | 1.75 | 2.46 | - |
| 0130 | 0.88 | 17.54 | - | 0.44 | - | - | 2.19 | 3.51 | - |
| 0200 | 1.56 | 18.68 | 0.39 | 0.78 | - | - | 1.17 | 3.89 | - |
| 0230 | 2.68 | 17.86 | - | 0.89 | - | - | 2.23 | 3.13 | - |
| 0300 | 0.78 | 19.61 | - | 0.39 | - | - | 3.14 | 4.71 | - |
| 0330 | - | 16.96 | - | 0.43 | - | - | 3.04 | 2.61 | - |
| 0400 | 0.71 | 21.79 | 0.36 | 0.36 | 0.71 | - | 1.07 | 3.57 | - |
| 0430 | 1.33 | 17.78 | - | 0.44 | 0.89 | - | - | 3.56 | - |
| 0500 | 1.41 | 20.42 | 0.35 | 0.35 | 0.70 | - | 0.35 | 4.58 | - |
| 0530 | 1.79 | 18.75 | - | 0.45 | 0.89 | - | 0.45 | 3.57 | - |
| 0600 | 1.41 | 16.61 | 0.71 | 0.35 | 0.35 | - | 0.35 | 3.18 | - |
| 0630 | 0.45 | 15.63 | - | - | 0.45 | - | 0.45 | 2.68 | - |
| 0700 | 0.36 | 17.79 | - | - | 0.36 | - | 0.71 | 3.56 | - |
| 0730 | - | 13.84 | - | 0.89 | - | - | 0.89 | 2.68 | - |
| 0800 | 1.05 | 16.84 | - | 0.35 | - | - | 0.70 | 2.11 | - |
| 0830 | 0.88 | 14.16 | - | 0.88 | 0.44 | - | 0.88 | 2.21 | - |
| 0900 | 1.41 | 15.49 | 0.35 | 0.70 | 0.35 | - | 1.06 | 2.11 | - |
| 0930 | 1.76 | 13.66 | - | 0.88 | 0.44 | - | 0.44 | 2.64 | - |
| 1000 | 0.71 | 17.79 | - | 0.71 | 0.36 | - | 0.36 | 2.85 | - |
| 1030 | - | 13.60 | - | 0.88 | 0.44 | - | 1.32 | 3.07 | - |
| 1100 | 1.06 | 16.20 | - | - | 0.70 | - | 1.06 | 1.76 | - |
| 1130 | 1.32 | 12.33 | - | 0.44 | 0.88 | - | 1.32 | 1.32 | - |
| 1200 | 1.05 | 15.68 | 0.35 | 0.35 | - | - | 1.05 | 1.05 | - |
| 1230 | 0.89 | 12.95 | - | 1.34 | - | - | 1.34 | 0.89 | - |
| 1300 | 1.06 | 15.85 | - | 0.70 | - | - | 1.06 | 1.76 | - |
| 1330 | 0.88 | 11.89 | - | 0.88 | - | - | 1.32 | 1.76 | - |
| 1400 | 0.71 | 15.36 | - | 0.71 | - | - | 0.71 | 1.43 | - |
| 1430 | 0.89 | 15.63 | 0.45 | 1.34 | 0.45 | - | 0.45 | 1.34 | - |
| 1500 | 1.08 | 17.27 | 0.36 | 1.44 | - | - | 0.72 | 0.72 | - |
| 1530 | 0.88 | 16.23 | - | 1.32 | - | - | 0.44 | 1.75 | - |
| 1600 | 0.71 | 19.43 | - | 1.41 | - | - | 0.35 | 1.77 | - |
| 1630 | 1.33 | 17.26 | - | 1.33 | - | - | 0.44 | 1.33 | - |
| 1700 | 0.79 | 20.16 | - | 1.19 | - | - | 0.40 | 1.58 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.89 | 19.11 | - | 1.33 | - | - | 0.44 | 2.22 | - |
| 1800 | 1.22 | 19.18 | - | 1.22 | - | - | 0.82 | 1.63 | - |
| 1830 | 1.32 | 17.62 | - | 1.32 | - | - | 0.88 | 1.32 | - |
| 1900 | 1.87 | 17.91 | - | 1.12 | - | - | 0.37 | 1.49 | - |
| 1930 | 3.10 | 16.81 | - | 1.33 | - | - | 0.44 | 1.33 | - |
| 2000 | 2.58 | 18.88 | 0.86 | 1.29 | - | - | 0.43 | 2.15 | - |
| 2030 | 3.08 | 16.30 | - | 1.32 | - | - | 2.20 | 1.76 | - |
| 2100 | 3.52 | 14.98 | - | 0.88 | - | - | 3.52 | 0.88 | - |
| 2130 | 3.51 | 17.11 | - | 0.88 | - | - | 1.75 | 1.75 | - |
| 2200 | 2.33 | 15.56 | 0.78 | 0.39 | 0.39 | - | 0.39 | 1.56 | - |
| 2230 | 2.69 | 17.04 | 0.45 | 0.45 | - | - | 0.90 | 1.35 | - |
| 2300 | 2.21 | 18.14 | - | 0.44 | - | - | 0.88 | 3.10 | - |
| 2330 | 3.14 | 17.94 | - | 0.90 | - | - | 3.14 | 2.24 | - |
| Mean | 1.44 | 16.96 | 0.11 | 0.79 | 0.18 | - | 1.15 | 2.27 | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in February are: rain – 16.96%, snow – 2.27%, mist – 1.44%.

The activity of thunderstorms in February constitutes 0.11%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

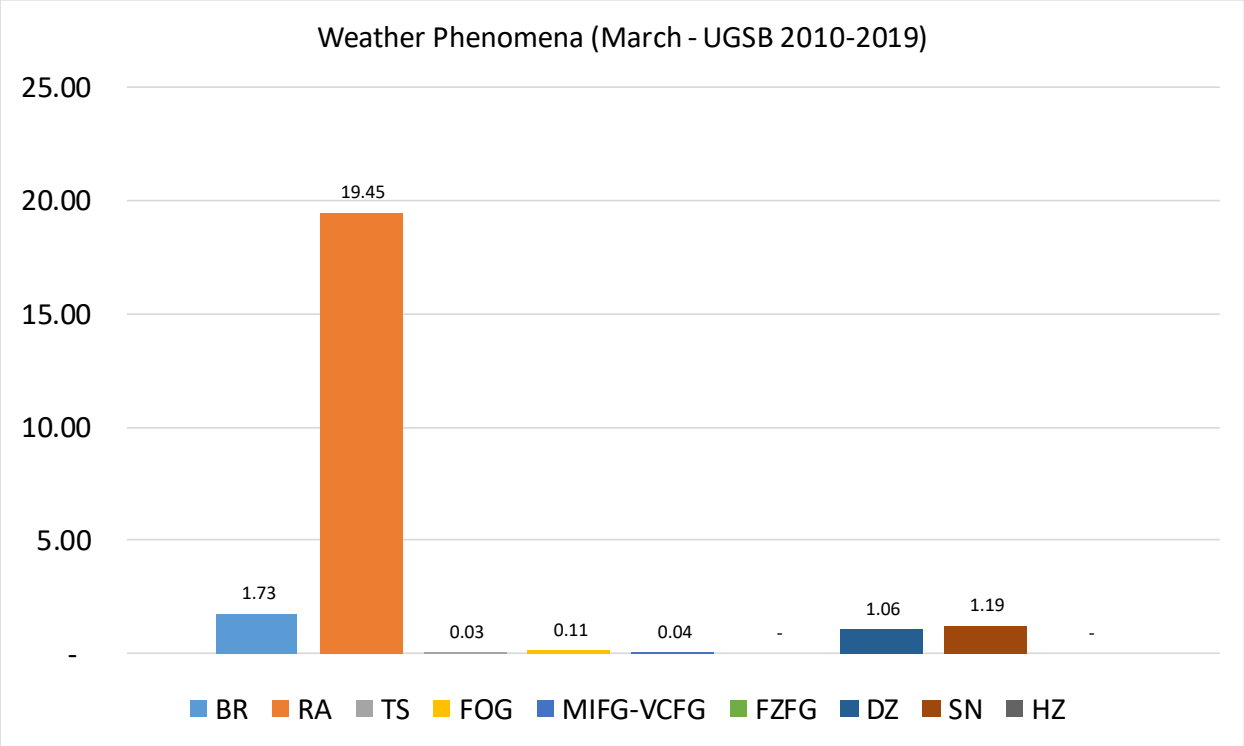
AERODROME: UGSB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 2.55 | 20.80 | - | 0.36 | - | - | 2.55 | 0.73 | - |
| 0030 | 2.82 | 18.95 | - | - | - | - | 2.02 | 0.81 | - |
| 0100 | 2.61 | 20.59 | - | - | - | - | 1.31 | 0.98 | - |
| 0130 | 2.02 | 19.03 | - | - | - | - | 2.02 | 2.43 | - |
| 0200 | 1.79 | 20.79 | - | 0.36 | - | - | 1.79 | 1.43 | - |
| 0230 | 1.61 | 19.28 | - | - | - | - | 2.01 | 1.20 | - |
| 0300 | 1.79 | 21.43 | - | - | - | - | 2.14 | 1.07 | - |
| 0330 | 1.99 | 20.32 | - | - | - | - | 0.80 | 0.80 | - |
| 0400 | 1.62 | 22.01 | - | - | - | - | 0.32 | 1.29 | - |
| 0430 | 0.81 | 20.65 | 0.40 | - | - | - | 0.40 | 2.83 | - |
| 0500 | 1.95 | 21.82 | - | - | 0.33 | - | - | 1.63 | - |
| 0530 | 2.03 | 19.92 | - | - | 0.41 | - | 1.63 | 2.85 | - |
| 0600 | 2.60 | 22.08 | - | - | 0.32 | - | 0.65 | 2.27 | - |
| 0630 | 2.45 | 20.41 | - | - | 0.41 | - | 1.63 | 2.45 | - |
| 0700 | 2.91 | 17.48 | - | - | 0.32 | - | 1.62 | 1.94 | - |
| 0730 | 1.62 | 18.62 | - | - | - | - | - | 2.02 | - |
| 0800 | 2.32 | 20.86 | - | - | - | - | 0.33 | 1.66 | - |
| 0830 | 0.81 | 18.29 | 0.41 | - | - | - | - | 0.81 | - |
| 0900 | 0.99 | 20.13 | - | - | - | - | - | 1.65 | - |
| 0930 | 0.81 | 18.70 | - | - | - | - | - | 2.44 | - |
| 1000 | 1.30 | 17.26 | - | - | - | - | 0.65 | 0.98 | - |
| 1030 | 0.81 | 18.95 | - | - | - | - | 0.81 | 1.21 | - |
| 1100 | 0.98 | 20.98 | - | - | - | - | - | 0.66 | - |
| 1130 | 0.41 | 17.89 | - | - | - | - | - | 1.63 | - |
| 1200 | 0.65 | 18.24 | 0.33 | - | - | - | 0.65 | 1.95 | - |
| 1230 | 2.41 | 19.28 | - | - | - | - | - | 2.41 | - |
| 1300 | 1.31 | 18.03 | - | - | - | - | 1.64 | 0.98 | - |
| 1330 | 1.99 | 17.93 | - | - | - | - | 0.80 | - | - |
| 1400 | 0.99 | 20.39 | - | - | - | - | 0.33 | 0.66 | - |
| 1430 | 0.82 | 19.26 | - | - | - | - | 0.41 | - | - |
| 1500 | 1.67 | 19.00 | - | - | - | - | - | - | - |
| 1530 | 2.02 | 19.03 | - | - | - | - | - | - | - |
| 1600 | 1.32 | 18.75 | - | 0.33 | - | - | 0.33 | - | - |
| 1630 | 1.22 | 17.48 | 0.41 | - | - | - | 0.41 | 0.41 | - |
| 1700 | 1.82 | 18.91 | - | - | - | - | 1.82 | 0.36 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 1.21 | 16.60 | - | - | - | - | 1.21 | - | - |
| 1800 | 2.23 | 18.59 | - | - | - | - | 1.49 | 1.12 | - |
| 1830 | 1.63 | 18.78 | - | 0.41 | - | - | 1.22 | 0.82 | - |
| 1900 | 1.68 | 20.88 | - | 0.34 | - | - | 1.01 | 0.34 | - |
| 1930 | 2.45 | 21.22 | - | 0.41 | - | - | 1.22 | - | - |
| 2000 | 1.91 | 18.32 | - | 0.38 | - | - | 1.15 | 1.15 | - |
| 2030 | 2.07 | 16.94 | - | 0.41 | - | - | 2.48 | 1.65 | - |
| 2100 | 3.60 | 18.00 | - | 0.40 | - | - | 2.80 | 1.20 | - |
| 2130 | 2.02 | 19.03 | - | 0.40 | - | - | 2.43 | 1.21 | - |
| 2200 | 1.43 | 19.71 | - | 0.36 | - | - | 1.43 | 1.08 | - |
| 2230 | 0.81 | 19.35 | - | 0.40 | - | - | 1.61 | 1.61 | - |
| 2300 | 1.66 | 22.82 | - | 0.83 | - | - | 0.83 | 1.66 | - |
| 2330 | 2.50 | 19.58 | - | - | - | - | 2.92 | 0.83 | - |
| Mean | 1.73 | 19.45 | 0.03 | 0.11 | 0.04 | - | 1.06 | 1.19 | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in March are: rain – 19.45%, mist– 1.73%, snow – 1.19%.

The activity of thunderstorms in March constitutes 0.03%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

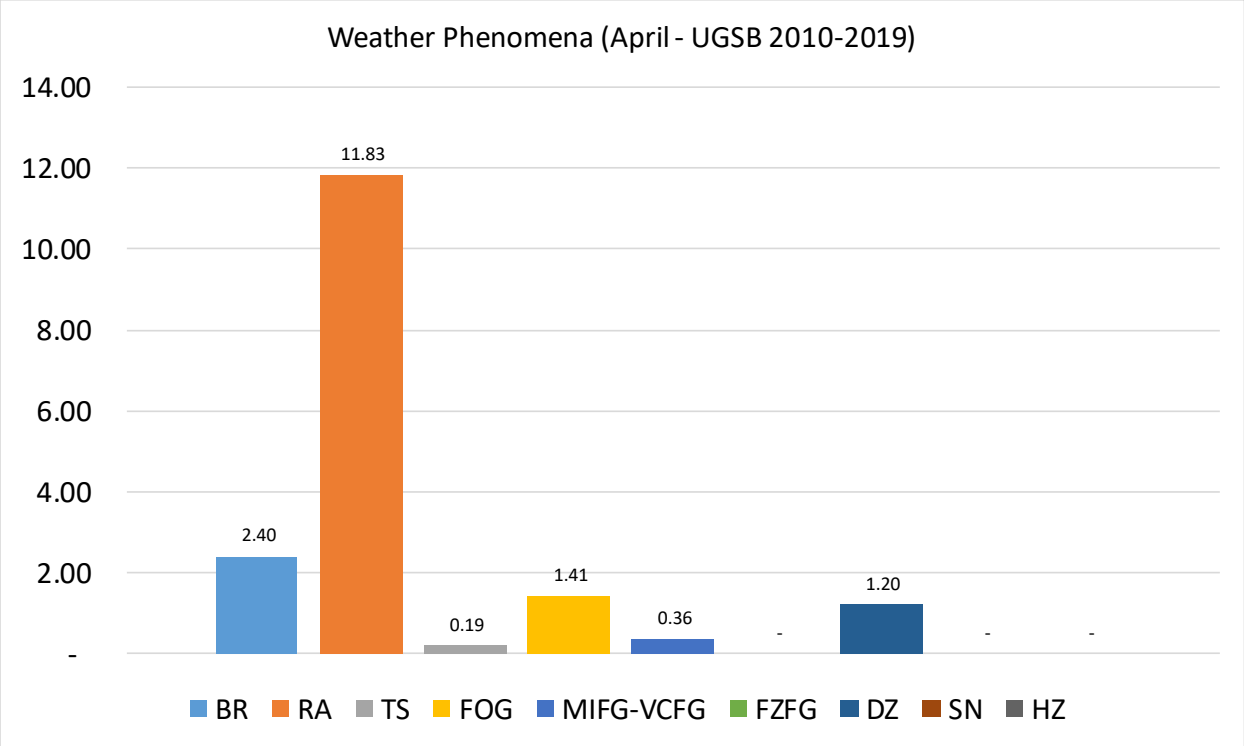
AERODROME: UGSB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 1.50 | 16.92 | - | 2.63 | 0.38 | - | 2.26 | - | - |
| 0030 | 2.05 | 11.48 | - | 2.87 | - | - | 4.10 | - | - |
| 0100 | 2.64 | 16.83 | - | 1.98 | - | - | 1.65 | - | - |
| 0130 | 3.33 | 12.92 | - | 2.50 | - | - | 1.67 | - | - |
| 0200 | 2.96 | 13.70 | - | 2.59 | 0.37 | - | 2.96 | - | - |
| 0230 | 2.48 | 9.50 | - | 2.48 | - | - | 3.31 | - | - |
| 0300 | 3.62 | 15.58 | - | 2.17 | 0.36 | - | 1.81 | - | - |
| 0330 | 2.92 | 10.00 | - | 2.92 | 0.83 | - | 2.08 | - | - |
| 0400 | 3.00 | 13.00 | - | 1.67 | 0.67 | - | 1.33 | - | - |
| 0430 | 2.89 | 10.74 | - | 1.24 | - | - | 0.83 | - | - |
| 0500 | 2.65 | 13.58 | - | 0.66 | 0.66 | - | 0.33 | - | - |
| 0530 | 2.51 | 10.46 | - | 0.84 | 0.42 | - | 0.42 | - | - |
| 0600 | 4.00 | 11.67 | - | 0.67 | 0.67 | - | 0.67 | - | - |
| 0630 | 2.48 | 10.74 | - | 1.24 | 0.41 | - | 0.83 | - | - |
| 0700 | 4.01 | 8.36 | - | 1.00 | 0.33 | - | 0.67 | - | - |
| 0730 | 2.48 | 7.02 | - | 0.83 | 0.83 | - | - | - | - |
| 0800 | 3.32 | 8.31 | - | 0.66 | 0.66 | - | 1.00 | - | - |
| 0830 | 1.64 | 8.61 | 0.41 | 0.41 | 2.05 | - | 0.41 | - | - |
| 0900 | 2.99 | 7.97 | 0.33 | - | 1.33 | - | 0.66 | - | - |
| 0930 | 2.51 | 8.37 | - | - | 1.67 | - | 0.42 | - | - |
| 1000 | 1.99 | 9.30 | - | 0.33 | 1.33 | - | 0.33 | - | - |
| 1030 | 2.07 | 10.37 | 0.41 | - | 0.83 | - | - | - | - |
| 1100 | 2.34 | 9.70 | 0.33 | 0.33 | 0.67 | - | 0.33 | - | - |
| 1130 | 2.89 | 8.68 | 0.83 | 0.41 | 0.41 | - | 0.41 | - | - |
| 1200 | 3.07 | 8.19 | 0.34 | - | 0.34 | - | 0.68 | - | - |
| 1230 | 2.51 | 10.46 | 0.42 | - | - | - | - | - | - |
| 1300 | 2.69 | 10.77 | 0.34 | 0.34 | 0.34 | - | 0.67 | - | - |
| 1330 | 2.49 | 10.79 | 0.83 | - | 0.41 | - | 0.83 | - | - |
| 1400 | 2.36 | 11.45 | - | 0.67 | - | - | 1.68 | - | - |
| 1430 | 2.07 | 11.20 | - | 0.41 | - | - | 1.24 | - | - |
| 1500 | 2.67 | 10.33 | 0.67 | 0.67 | - | - | 1.67 | - | - |
| 1530 | 1.67 | 13.33 | 0.83 | 1.25 | - | - | 1.25 | - | - |
| 1600 | 2.01 | 13.38 | 0.67 | 1.67 | - | - | 2.01 | - | - |
| 1630 | 1.24 | 14.05 | 1.24 | 1.24 | - | - | 1.24 | - | - |
| 1700 | 2.18 | 17.82 | 0.36 | 1.09 | - | - | 1.09 | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.83 | 14.11 | - | 1.66 | - | - | 1.66 | - | - |
| 1800 | 2.21 | 12.92 | 0.37 | 1.85 | - | - | 1.48 | - | - |
| 1830 | 1.66 | 12.86 | - | 2.07 | - | - | 1.24 | - | - |
| 1900 | 1.01 | 12.46 | - | 1.68 | - | - | 1.35 | - | - |
| 1930 | 1.24 | 13.69 | 0.41 | 2.07 | - | - | 1.66 | - | - |
| 2000 | 1.95 | 14.01 | - | 1.95 | 0.39 | - | 1.17 | - | - |
| 2030 | 2.10 | 12.18 | - | 2.52 | - | - | 1.26 | - | - |
| 2100 | 3.19 | 13.15 | - | 2.39 | - | - | 1.59 | - | - |
| 2130 | 4.51 | 12.30 | - | 2.05 | - | - | 2.05 | - | - |
| 2200 | 2.21 | 11.81 | - | 2.58 | 0.37 | - | 1.48 | - | - |
| 2230 | 1.67 | 14.64 | 0.42 | 2.93 | - | - | - | - | - |
| 2300 | 0.82 | 14.40 | - | 3.29 | 0.41 | - | 0.82 | - | - |
| 2330 | 1.67 | 13.75 | - | 2.92 | - | - | 0.83 | - | - |
| Mean | 2.40 | 11.83 | 0.19 | 1.41 | 0.36 | - | 1.20 | - | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in April are: rain – 11.83%, mist – 2.40%, fog – 1.41%.

The activity of thunderstorms in April constitutes 0. 19%.

**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL H**

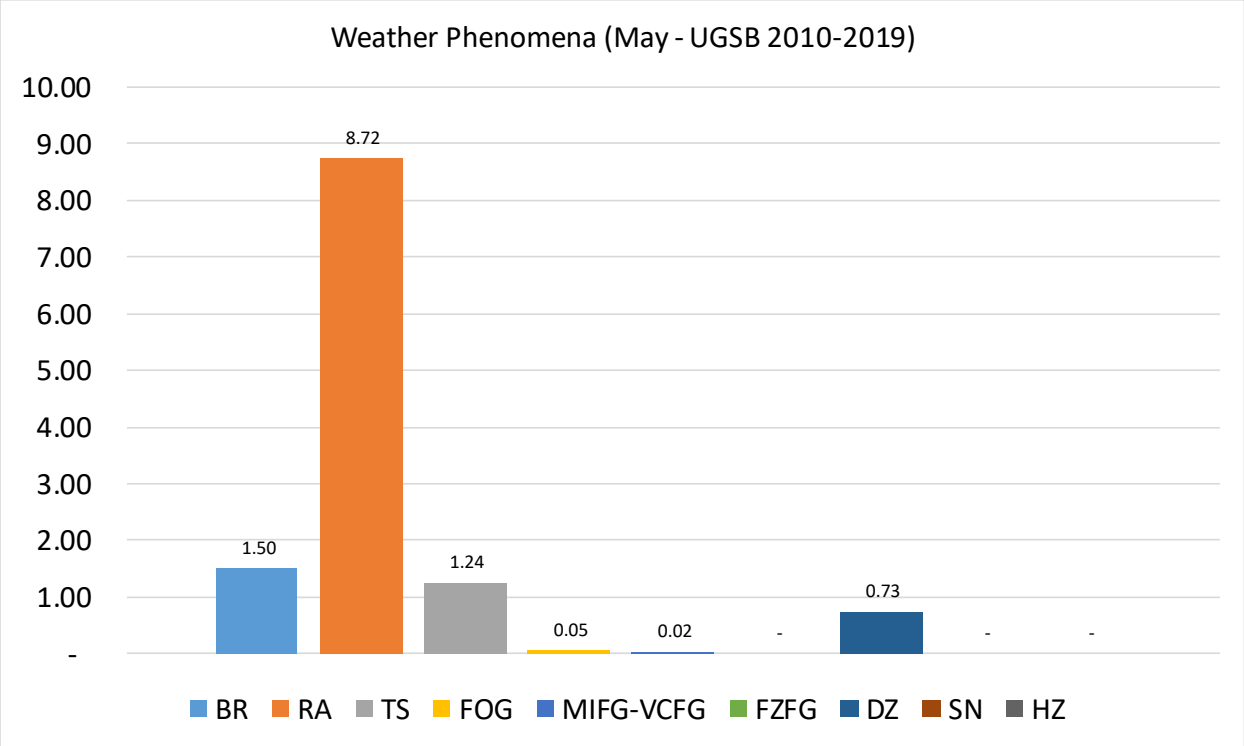
AERODROME: UGSB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 108 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 1.96 | 9.02 | 0.78 | - | - | - | 1.18 | - | - |
| 0030 | 2.40 | 10.00 | 0.80 | 0.40 | - | - | 1.20 | - | - |
| 0100 | 3.13 | 9.38 | 0.69 | 0.35 | - | - | 2.08 | - | - |
| 0130 | 3.61 | 7.63 | 0.80 | 0.40 | - | - | 0.80 | - | - |
| 0200 | 3.83 | 6.51 | - | 0.38 | - | - | 2.30 | - | - |
| 0230 | 3.17 | 7.94 | - | 0.40 | - | - | 0.79 | - | - |
| 0300 | 3.45 | 8.43 | 0.38 | - | - | - | 0.38 | - | - |
| 0330 | 3.63 | 9.27 | 0.40 | - | 0.40 | - | 0.81 | - | - |
| 0400 | 2.43 | 9.72 | 0.35 | - | - | - | 1.39 | - | - |
| 0430 | 3.24 | 9.72 | 0.40 | - | - | - | 0.40 | - | - |
| 0500 | 2.41 | 9.66 | 0.34 | - | - | - | 1.03 | - | - |
| 0530 | 2.03 | 7.72 | - | - | - | - | 1.22 | - | - |
| 0600 | 0.68 | 9.59 | 0.34 | - | 0.34 | - | 0.68 | - | - |
| 0630 | 0.40 | 8.47 | 1.21 | - | 0.40 | - | 0.40 | - | - |
| 0700 | 0.69 | 10.38 | 0.69 | - | - | - | 0.69 | - | - |
| 0730 | 0.41 | 8.54 | 0.41 | - | - | - | 0.41 | - | - |
| 0800 | 1.37 | 8.22 | 0.68 | - | - | - | 0.68 | - | - |
| 0830 | 0.40 | 8.43 | 0.40 | - | - | - | - | - | - |
| 0900 | 1.05 | 10.49 | 1.05 | - | - | - | 0.70 | - | - |
| 0930 | - | 6.48 | 0.81 | - | - | - | - | - | - |
| 1000 | 0.69 | 7.27 | 1.38 | - | - | - | 0.35 | - | - |
| 1030 | 0.81 | 7.69 | 1.62 | - | - | - | 0.40 | - | - |
| 1100 | 0.69 | 6.92 | 0.35 | - | - | - | 0.69 | - | - |
| 1130 | 1.20 | 6.40 | 0.40 | - | - | - | 0.80 | - | - |
| 1200 | 1.73 | 4.84 | 0.69 | - | - | - | 1.04 | - | - |
| 1230 | 1.99 | 5.98 | 2.39 | - | - | - | 1.20 | - | - |
| 1300 | 1.05 | 8.36 | 2.44 | - | - | - | 0.35 | - | - |
| 1330 | 1.21 | 9.31 | 3.24 | - | - | - | 0.81 | - | - |
| 1400 | 0.70 | 9.51 | 3.17 | - | - | - | - | - | - |
| 1430 | 0.40 | 10.89 | 4.03 | - | - | - | - | - | - |
| 1500 | 0.35 | 9.57 | 4.26 | - | - | - | 0.35 | - | - |
| 1530 | 0.40 | 11.74 | 3.64 | - | - | - | 0.40 | - | - |
| 1600 | 0.69 | 10.42 | 2.78 | - | - | - | - | - | - |
| 1630 | 0.40 | 10.36 | 1.59 | - | - | - | - | - | - |
| 1700 | 0.38 | 12.98 | 2.29 | - | - | - | 0.38 | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.80 | 11.60 | 1.60 | - | - | - | - | - | - |
| 1800 | 0.77 | 7.66 | 0.77 | - | - | - | - | - | - |
| 1830 | 0.81 | 8.94 | 0.81 | - | - | - | - | - | - |
| 1900 | 0.71 | 8.16 | 1.42 | - | - | - | 0.35 | - | - |
| 1930 | 0.40 | 9.96 | 0.80 | - | - | - | - | - | - |
| 2000 | 1.17 | 8.59 | 1.17 | - | - | - | 0.78 | - | - |
| 2030 | 2.40 | 8.00 | 1.20 | - | - | - | 2.40 | - | - |
| 2100 | 2.73 | 8.20 | 1.56 | - | - | - | 1.95 | - | - |
| 2130 | 2.40 | 7.20 | 1.60 | - | - | - | 1.20 | - | - |
| 2200 | 1.41 | 6.69 | 0.70 | - | - | - | 1.76 | - | - |
| 2230 | 1.63 | 7.32 | 1.22 | - | - | - | 1.22 | - | - |
| 2300 | 1.95 | 8.59 | 1.17 | - | - | - | 0.39 | - | - |
| 2330 | 1.61 | 10.04 | 0.80 | 0.40 | - | - | 0.80 | - | - |
| Mean | 1.50 | 8.72 | 1.24 | 0.05 | 0.02 | - | 0.73 | - | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in May are: rain – 8.72%, mist – 1.50%, drizzle – 0.73%.

The activity of thunderstorms in May constitutes 1.24%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

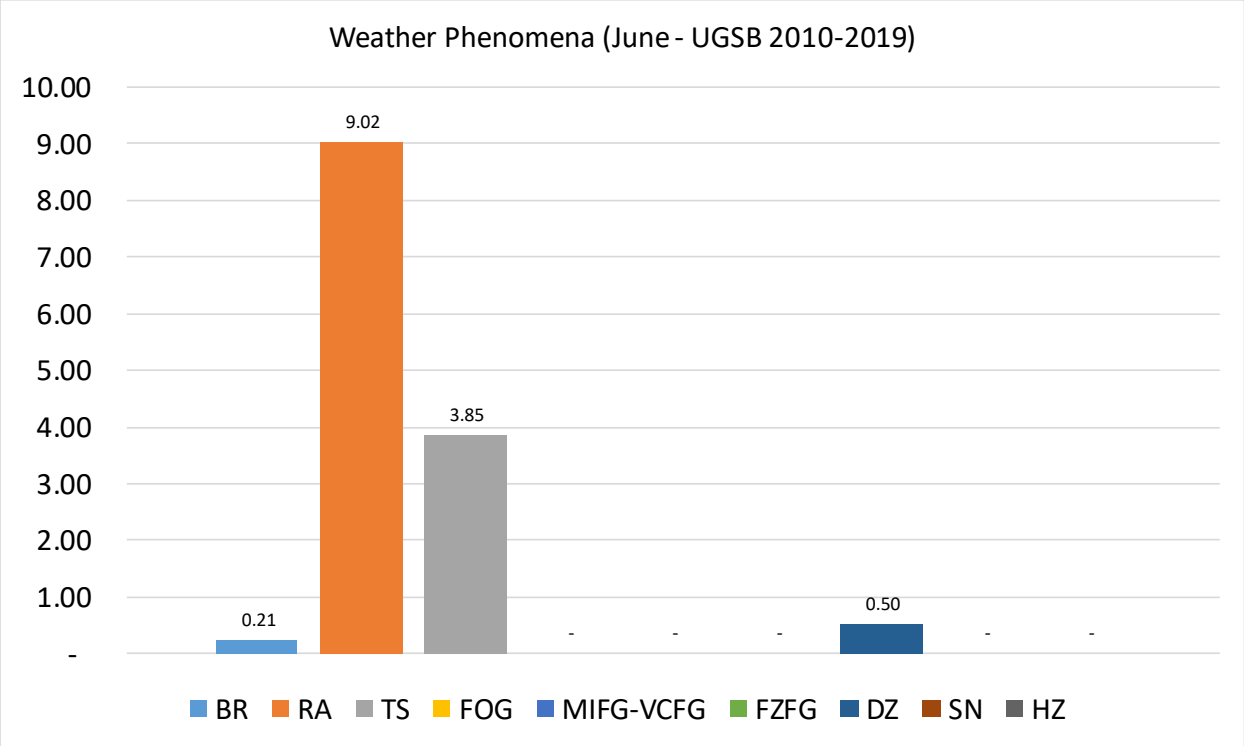
AERODROME: UGSB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | - | 9.29 | 5.20 | - | - | - | - | - | - |
| 0030 | 0.39 | 8.56 | 3.11 | - | - | - | 0.78 | - | - |
| 0100 | 0.34 | 7.85 | 2.73 | - | - | - | 0.34 | - | - |
| 0130 | - | 9.49 | 3.56 | - | - | - | 1.58 | - | - |
| 0200 | 0.37 | 11.40 | 4.04 | - | - | - | 0.74 | - | - |
| 0230 | - | 9.80 | 3.92 | - | - | - | 0.78 | - | - |
| 0300 | - | 9.28 | 2.41 | - | - | - | - | - | - |
| 0330 | - | 8.98 | 1.95 | - | - | - | - | - | - |
| 0400 | - | 8.72 | 2.68 | - | - | - | 0.67 | - | - |
| 0430 | 0.39 | 6.61 | 2.33 | - | - | - | 0.78 | - | - |
| 0500 | - | 6.40 | 1.68 | - | - | - | 1.35 | - | - |
| 0530 | - | 5.43 | 1.55 | - | - | - | 1.94 | - | - |
| 0600 | - | 7.64 | 1.33 | - | - | - | 1.00 | - | - |
| 0630 | 0.40 | 6.37 | 1.99 | - | - | - | 0.80 | - | - |
| 0700 | 0.33 | 6.29 | 1.99 | - | - | - | 0.99 | - | - |
| 0730 | 0.39 | 5.88 | 1.18 | - | - | - | 0.78 | - | - |
| 0800 | 1.33 | 5.33 | 1.67 | - | - | - | 0.67 | - | - |
| 0830 | 1.97 | 6.30 | 1.97 | - | - | - | 0.79 | - | - |
| 0900 | 0.34 | 5.70 | 1.34 | - | - | - | 0.34 | - | - |
| 0930 | - | 7.00 | 1.95 | - | - | - | 0.78 | - | - |
| 1000 | - | 5.70 | 1.68 | - | - | - | 0.34 | - | - |
| 1030 | 0.39 | 5.06 | 1.17 | - | - | - | 0.78 | - | - |
| 1100 | 0.34 | 5.70 | 1.68 | - | - | - | - | - | - |
| 1130 | 0.77 | 6.18 | 1.16 | - | - | - | 0.39 | - | - |
| 1200 | 1.01 | 6.40 | 2.02 | - | - | - | 0.34 | - | - |
| 1230 | 0.39 | 7.48 | 3.54 | - | - | - | 0.79 | - | - |
| 1300 | 0.33 | 8.33 | 3.67 | - | - | - | 0.67 | - | - |
| 1330 | - | 12.79 | 4.65 | - | - | - | 0.39 | - | - |
| 1400 | - | 9.40 | 4.03 | - | - | - | - | - | - |
| 1430 | 0.78 | 9.77 | 3.13 | - | - | - | - | - | - |
| 1500 | - | 10.54 | 4.76 | - | - | - | - | - | - |
| 1530 | - | 11.33 | 5.47 | - | - | - | - | - | - |
| 1600 | - | 12.00 | 7.00 | - | - | - | 0.33 | - | - |
| 1630 | - | 14.34 | 7.36 | - | - | - | 0.39 | - | - |
| 1700 | - | 16.48 | 9.16 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 9.73 | 9.34 | - | - | - | - | - | - |
| 1800 | - | 11.85 | 5.93 | - | - | - | 0.74 | - | - |
| 1830 | - | 13.23 | 6.61 | - | - | - | 0.39 | - | - |
| 1900 | - | 12.71 | 5.35 | - | - | - | - | - | - |
| 1930 | - | 11.92 | 8.08 | - | - | - | - | - | - |
| 2000 | - | 11.31 | 6.93 | - | - | - | - | - | - |
| 2030 | - | 9.69 | 6.98 | - | - | - | 0.39 | - | - |
| 2100 | - | 10.18 | 5.45 | - | - | - | 0.36 | - | - |
| 2130 | - | 6.59 | 3.49 | - | - | - | 0.78 | - | - |
| 2200 | - | 9.67 | 4.00 | - | - | - | 0.33 | - | - |
| 2230 | - | 10.24 | 3.94 | - | - | - | 0.79 | - | - |
| 2300 | - | 11.76 | 4.41 | - | - | - | 0.74 | - | - |
| 2330 | - | 10.24 | 5.12 | - | - | - | - | - | - |
| Mean | 0.21 | 9.02 | 3.85 | - | - | - | 0.50 | - | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in June are: rain – 9.02%, drizzle – 0.50%, mist – 0.21%.

The activity of thunderstorms in June constitutes 3.85%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

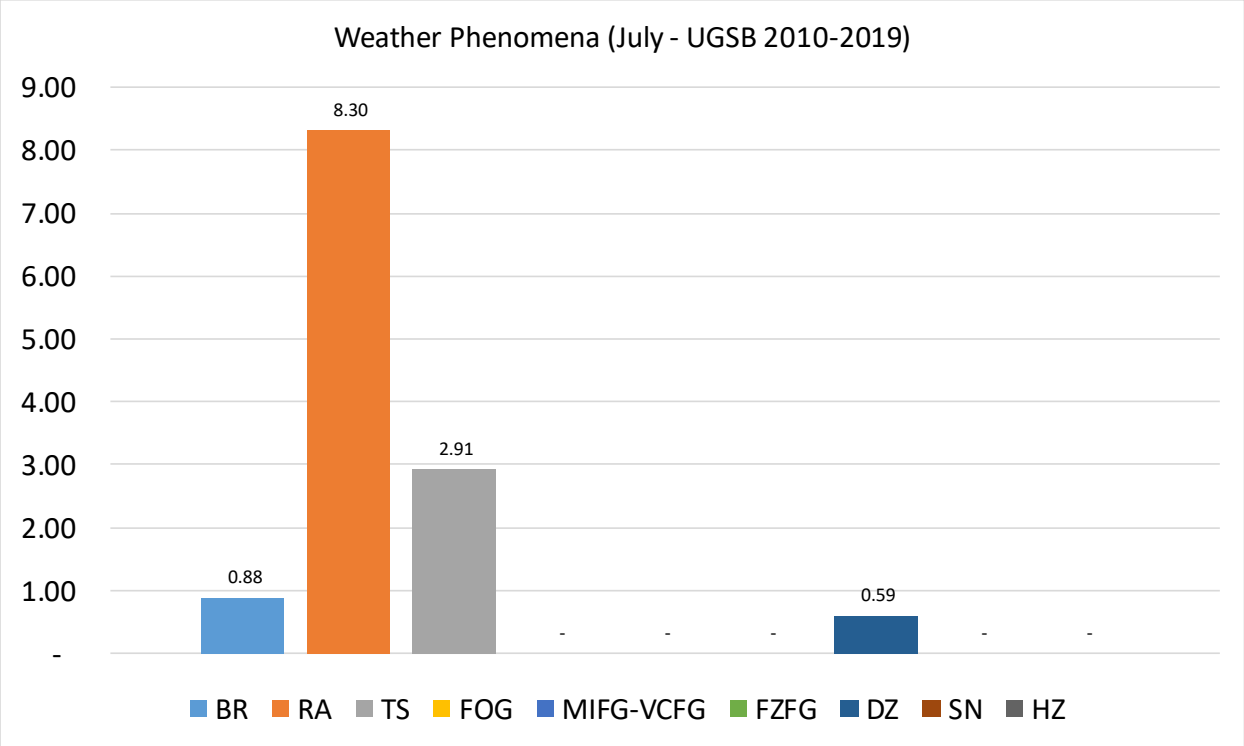
AERODROME: UGSB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 1.44 | 9.71 | 4.32 | - | - | - | 0.36 | - | - |
| 0030 | 1.43 | 9.32 | 4.66 | - | - | - | - | - | - |
| 0100 | 1.63 | 9.15 | 4.90 | - | - | - | 0.33 | - | - |
| 0130 | 1.79 | 9.32 | 5.02 | - | - | - | 1.08 | - | - |
| 0200 | 1.04 | 10.03 | 3.46 | - | - | - | 0.69 | - | - |
| 0230 | 1.78 | 11.39 | 3.20 | - | - | - | 1.78 | - | - |
| 0300 | 1.69 | 10.47 | 3.38 | - | - | - | 0.68 | - | - |
| 0330 | 1.43 | 10.71 | 3.93 | - | - | - | 0.36 | - | - |
| 0400 | 0.98 | 10.75 | 3.91 | - | - | - | 0.33 | - | - |
| 0430 | 1.04 | 10.73 | 3.11 | - | - | - | 0.35 | - | - |
| 0500 | 0.98 | 9.15 | 3.59 | - | - | - | 0.65 | - | - |
| 0530 | 1.80 | 7.91 | 2.88 | - | - | - | 1.08 | - | - |
| 0600 | 0.65 | 8.47 | 2.93 | - | - | - | - | - | - |
| 0630 | 1.44 | 7.94 | 1.81 | - | - | - | 0.72 | - | - |
| 0700 | 1.29 | 7.40 | 2.57 | - | - | - | 0.64 | - | - |
| 0730 | 1.43 | 6.09 | 2.15 | - | - | - | 0.36 | - | - |
| 0800 | 1.30 | 6.49 | 1.62 | - | - | - | 0.32 | - | - |
| 0830 | 1.08 | 4.33 | 1.44 | - | - | - | 1.44 | - | - |
| 0900 | 1.30 | 5.52 | 1.30 | - | - | - | 0.65 | - | - |
| 0930 | 0.72 | 5.42 | 1.08 | - | - | - | 0.72 | - | - |
| 1000 | 1.30 | 6.51 | 0.33 | - | - | - | 0.65 | - | - |
| 1030 | 0.36 | 6.47 | 0.36 | - | - | - | 0.72 | - | - |
| 1100 | 0.65 | 5.86 | 0.65 | - | - | - | 0.33 | - | - |
| 1130 | 0.72 | 5.04 | 1.44 | - | - | - | 0.72 | - | - |
| 1200 | 0.66 | 3.93 | 1.31 | - | - | - | - | - | - |
| 1230 | 1.09 | 3.62 | 1.45 | - | - | - | 0.36 | - | - |
| 1300 | 0.97 | 3.90 | 1.62 | - | - | - | - | - | - |
| 1330 | 0.71 | 4.64 | 1.07 | - | - | - | 0.71 | - | - |
| 1400 | 0.66 | 5.59 | 1.64 | - | - | - | 0.66 | - | - |
| 1430 | 0.36 | 4.64 | 1.43 | - | - | - | - | - | - |
| 1500 | 0.66 | 5.25 | 1.64 | - | - | - | - | - | - |
| 1530 | 0.36 | 6.79 | 2.50 | - | - | - | 1.07 | - | - |
| 1600 | 0.66 | 5.90 | 3.28 | - | - | - | 0.66 | - | - |
| 1630 | 0.36 | 6.79 | 3.21 | - | - | - | 0.71 | - | - |
| 1700 | 0.34 | 11.68 | 3.44 | - | - | - | 0.69 | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.36 | 10.51 | 5.07 | - | - | - | 0.72 | - | - |
| 1800 | 1.02 | 11.26 | 5.12 | - | - | - | 0.68 | - | - |
| 1830 | 1.08 | 11.83 | 5.38 | - | - | - | 0.36 | - | - |
| 1900 | - | 11.44 | 4.58 | - | - | - | - | - | - |
| 1930 | - | 11.91 | 3.97 | - | - | - | 1.08 | - | - |
| 2000 | 0.35 | 10.84 | 4.55 | - | - | - | 0.35 | - | - |
| 2030 | - | 10.55 | 4.73 | - | - | - | 1.09 | - | - |
| 2100 | 0.35 | 11.62 | 3.17 | - | - | - | 0.70 | - | - |
| 2130 | - | 11.35 | 2.13 | - | - | - | 1.06 | - | - |
| 2200 | 0.33 | 9.67 | 3.00 | - | - | - | 0.67 | - | - |
| 2230 | 0.35 | 9.54 | 3.89 | - | - | - | 0.71 | - | - |
| 2300 | 1.06 | 11.31 | 3.53 | - | - | - | 0.35 | - | - |
| 2330 | 1.46 | 9.85 | 4.01 | - | - | - | 0.73 | - | - |
| Mean | 0.88 | 8.30 | 2.91 | - | - | - | 0.59 | - | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in July are: rain – 8.30%, mist – 0.88%, drizzle – 0.59%.

The activity of thunderstorms in July constitutes 2.91%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

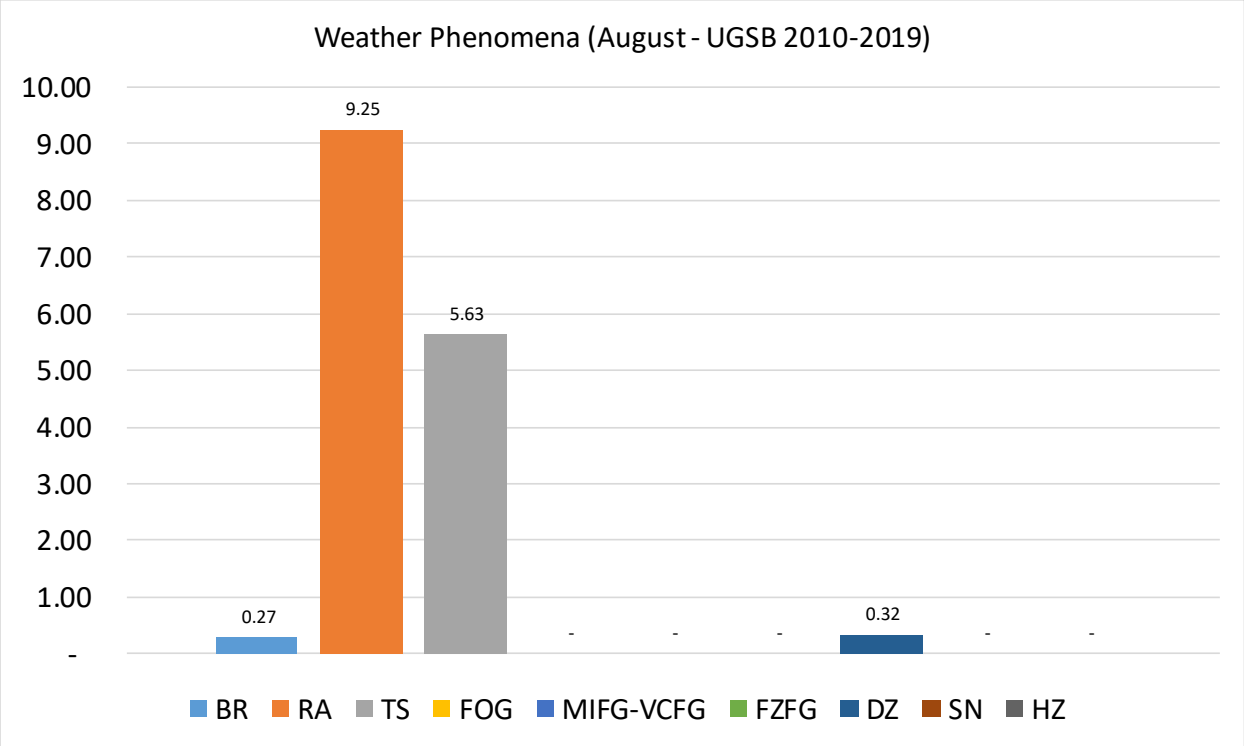
AERODROME: UGSB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | - | 10.21 | 7.04 | - | - | - | 0.70 | - | - |
| 0030 | - | 9.12 | 6.20 | - | - | - | 0.73 | - | - |
| 0100 | - | 7.77 | 6.08 | - | - | - | 0.34 | - | - |
| 0130 | - | 7.97 | 5.43 | - | - | - | 1.09 | - | - |
| 0200 | - | 9.12 | 4.56 | - | - | - | 0.70 | - | - |
| 0230 | - | 8.76 | 4.74 | - | - | - | 0.36 | - | - |
| 0300 | - | 10.16 | 5.25 | - | - | - | - | - | - |
| 0330 | - | 10.95 | 3.65 | - | - | - | - | - | - |
| 0400 | - | 9.77 | 6.51 | - | - | - | - | - | - |
| 0430 | 0.36 | 7.89 | 6.45 | - | - | - | 0.36 | - | - |
| 0500 | 0.32 | 8.36 | 6.11 | - | - | - | - | - | - |
| 0530 | 0.72 | 9.71 | 6.47 | - | - | - | - | - | - |
| 0600 | 0.33 | 9.97 | 5.32 | - | - | - | 0.33 | - | - |
| 0630 | 0.36 | 6.79 | 2.50 | - | - | - | - | - | - |
| 0700 | 0.32 | 6.80 | 3.24 | - | - | - | 0.32 | - | - |
| 0730 | 0.72 | 5.42 | 2.89 | - | - | - | - | - | - |
| 0800 | 0.32 | 5.50 | 2.27 | - | - | - | - | - | - |
| 0830 | 0.36 | 6.12 | 1.44 | - | - | - | - | - | - |
| 0900 | 0.33 | 5.25 | 1.64 | - | - | - | - | - | - |
| 0930 | 0.72 | 5.76 | 2.88 | - | - | - | - | - | - |
| 1000 | 0.32 | 4.53 | 2.27 | - | - | - | - | - | - |
| 1030 | 0.36 | 6.09 | 1.43 | - | - | - | - | - | - |
| 1100 | - | 3.88 | 1.62 | - | - | - | - | - | - |
| 1130 | - | 4.26 | 2.84 | - | - | - | - | - | - |
| 1200 | - | 4.85 | 2.91 | - | - | - | - | - | - |
| 1230 | - | 5.02 | 3.58 | - | - | - | 0.36 | - | - |
| 1300 | 0.32 | 7.40 | 2.89 | - | - | - | - | - | - |
| 1330 | - | 10.00 | 3.93 | - | - | - | - | - | - |
| 1400 | 0.32 | 6.75 | 2.89 | - | - | - | - | - | - |
| 1430 | 0.71 | 7.86 | 3.21 | - | - | - | 0.36 | - | - |
| 1500 | 1.30 | 7.17 | 2.93 | - | - | - | 0.33 | - | - |
| 1530 | 1.42 | 9.96 | 4.63 | - | - | - | - | - | - |
| 1600 | 0.65 | 10.06 | 5.19 | - | - | - | 1.30 | - | - |
| 1630 | - | 11.87 | 6.83 | - | - | - | 0.72 | - | - |
| 1700 | - | 9.40 | 8.39 | - | - | - | 0.34 | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.36 | 10.87 | 8.70 | - | - | - | - | - | - |
| 1800 | - | 14.43 | 11.00 | - | - | - | - | - | - |
| 1830 | 0.37 | 13.60 | 9.93 | - | - | - | - | - | - |
| 1900 | - | 13.38 | 10.70 | - | - | - | 0.67 | - | - |
| 1930 | 0.37 | 16.30 | 10.00 | - | - | - | 0.37 | - | - |
| 2000 | 0.34 | 12.07 | 11.03 | - | - | - | 0.34 | - | - |
| 2030 | - | 13.67 | 11.87 | - | - | - | 0.72 | - | - |
| 2100 | - | 14.84 | 9.54 | - | - | - | 1.41 | - | - |
| 2130 | - | 13.72 | 10.11 | - | - | - | 1.81 | - | - |
| 2200 | - | 14.14 | 7.41 | - | - | - | 0.34 | - | - |
| 2230 | 0.36 | 14.86 | 8.70 | - | - | - | 0.36 | - | - |
| 2300 | 0.36 | 12.81 | 7.12 | - | - | - | 0.36 | - | - |
| 2330 | 0.36 | 8.63 | 7.91 | - | - | - | 0.72 | - | - |
| Mean | 0.27 | 9.25 | 5.63 | - | - | - | 0.32 | - | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in August are: rain – 9.25%, drizzle – 0.32%, mist – 0.27%.

The activity of thunderstorms in August constitutes 5.63%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

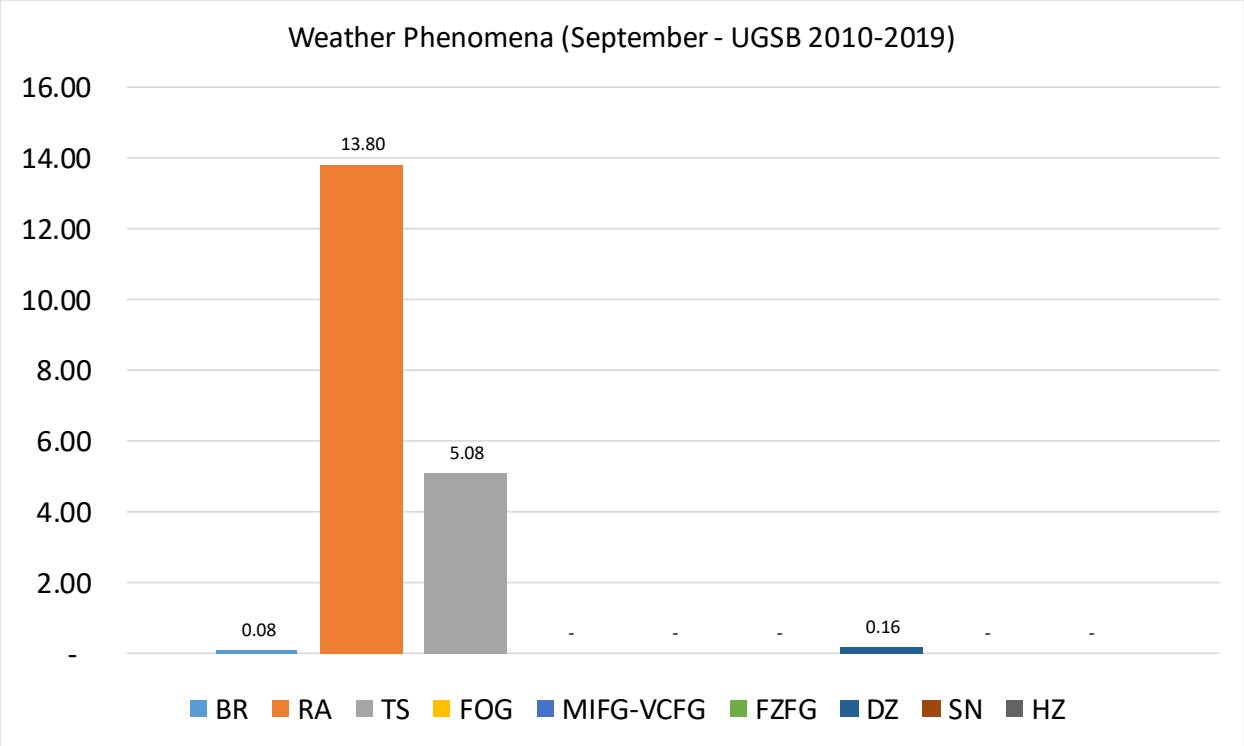
AERODROME: UGSB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 0.36 | 13.82 | 7.27 | - | - | - | - | - | - |
| 0030 | 0.37 | 13.75 | 6.69 | - | - | - | 0.37 | - | - |
| 0100 | - | 16.50 | 6.40 | - | - | - | 0.34 | - | - |
| 0130 | 0.36 | 14.96 | 6.20 | - | - | - | 0.36 | - | - |
| 0200 | - | 15.33 | 5.84 | - | - | - | - | - | - |
| 0230 | - | 17.09 | 6.18 | - | - | - | 0.36 | - | - |
| 0300 | - | 17.38 | 5.32 | - | - | - | - | - | - |
| 0330 | 0.38 | 16.92 | 6.39 | - | - | - | - | - | - |
| 0400 | - | 14.81 | 5.05 | - | - | - | 0.34 | - | - |
| 0430 | 0.74 | 14.50 | 5.20 | - | - | - | - | - | - |
| 0500 | 0.33 | 15.61 | 6.31 | - | - | - | - | - | - |
| 0530 | - | 16.23 | 5.66 | - | - | - | 0.38 | - | - |
| 0600 | - | 13.09 | 4.70 | - | - | - | 0.34 | - | - |
| 0630 | - | 12.13 | 5.15 | - | - | - | 0.37 | - | - |
| 0700 | - | 13.51 | 4.05 | - | - | - | 0.34 | - | - |
| 0730 | - | 15.04 | 4.51 | - | - | - | - | - | - |
| 0800 | - | 11.74 | 4.03 | - | - | - | - | - | - |
| 0830 | 0.37 | 11.99 | 4.49 | - | - | - | - | - | - |
| 0900 | - | 12.12 | 4.04 | - | - | - | - | - | - |
| 0930 | - | 12.36 | 3.00 | - | - | - | - | - | - |
| 1000 | - | 8.45 | 3.04 | - | - | - | - | - | - |
| 1030 | - | 11.07 | 2.21 | - | - | - | - | - | - |
| 1100 | - | 7.77 | 2.36 | - | - | - | - | - | - |
| 1130 | - | 11.28 | 2.63 | - | - | - | - | - | - |
| 1200 | - | 11.07 | 3.02 | - | - | - | - | - | - |
| 1230 | - | 11.07 | 3.32 | - | - | - | - | - | - |
| 1300 | - | 12.42 | 3.36 | - | - | - | - | - | - |
| 1330 | - | 10.82 | 3.73 | - | - | - | - | - | - |
| 1400 | - | 11.86 | 4.41 | - | - | - | - | - | - |
| 1430 | - | 11.94 | 3.73 | - | - | - | - | - | - |
| 1500 | 0.34 | 13.90 | 5.42 | - | - | - | 0.34 | - | - |
| 1530 | 0.37 | 13.81 | 5.22 | - | - | - | - | - | - |
| 1600 | 0.34 | 14.09 | 5.70 | - | - | - | - | - | - |
| 1630 | - | 14.98 | 5.62 | - | - | - | - | - | - |
| 1700 | - | 14.24 | 5.42 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 12.69 | 4.10 | - | - | - | - | - | - |
| 1800 | - | 13.67 | 4.32 | - | - | - | - | - | - |
| 1830 | - | 14.44 | 5.56 | - | - | - | - | - | - |
| 1900 | - | 14.38 | 6.69 | - | - | - | - | - | - |
| 1930 | - | 16.42 | 5.97 | - | - | - | - | - | - |
| 2000 | - | 15.19 | 5.30 | - | - | - | - | - | - |
| 2030 | - | 15.24 | 7.81 | - | - | - | 0.37 | - | - |
| 2100 | - | 14.49 | 6.16 | - | - | - | 0.72 | - | - |
| 2130 | - | 13.75 | 6.32 | - | - | - | 1.49 | - | - |
| 2200 | - | 15.54 | 5.74 | - | - | - | 1.01 | - | - |
| 2230 | - | 15.91 | 6.06 | - | - | - | - | - | - |
| 2300 | - | 17.44 | 7.12 | - | - | - | - | - | - |
| 2330 | - | 15.44 | 6.99 | - | - | - | 0.74 | - | - |
| Mean | 0.08 | 13.80 | 5.08 | - | - | - | 0.16 | - | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in September are: rain – 13.80%, drizzle – 0.16%, mist – 0.08%.

The activity of thunderstorms in September constitutes 5.08%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

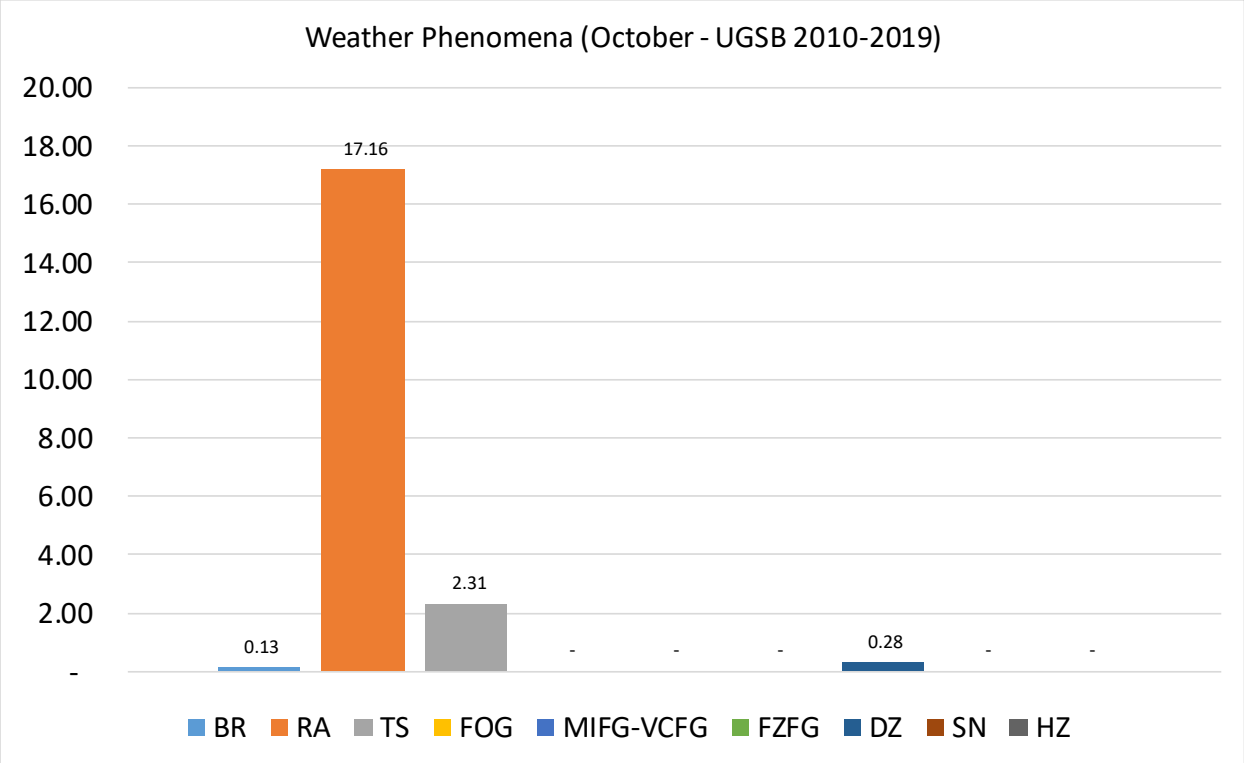
AERODROME: UGSB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | - | 18.84 | 3.77 | - | - | - | 0.34 | - | - |
| 0030 | - | 18.15 | 3.56 | - | - | - | 1.07 | - | - |
| 0100 | - | 17.25 | 3.19 | - | - | - | 1.60 | - | - |
| 0130 | - | 18.86 | 2.14 | - | - | - | 0.71 | - | - |
| 0200 | - | 18.77 | 2.27 | - | - | - | 1.29 | - | - |
| 0230 | - | 18.71 | 2.16 | - | - | - | 0.72 | - | - |
| 0300 | - | 18.77 | 2.27 | - | - | - | - | - | - |
| 0330 | - | 17.56 | 1.79 | - | - | - | 1.08 | - | - |
| 0400 | 0.32 | 20.19 | 1.92 | - | - | - | - | - | - |
| 0430 | - | 17.08 | 2.85 | - | - | - | - | - | - |
| 0500 | - | 20.13 | 2.88 | - | - | - | - | - | - |
| 0530 | 0.36 | 17.20 | 4.30 | - | - | - | - | - | - |
| 0600 | - | 16.08 | 1.93 | - | - | - | - | - | - |
| 0630 | 0.36 | 16.36 | 2.55 | - | - | - | - | - | - |
| 0700 | - | 17.15 | 2.27 | - | - | - | - | - | - |
| 0730 | 0.36 | 16.55 | 1.80 | - | - | - | - | - | - |
| 0800 | - | 18.42 | 1.32 | - | - | - | - | - | - |
| 0830 | - | 14.18 | 0.36 | - | - | - | 0.36 | - | - |
| 0900 | 0.33 | 15.69 | 0.65 | - | - | - | 0.33 | - | - |
| 0930 | - | 15.33 | 1.09 | - | - | - | - | - | - |
| 1000 | 0.32 | 14.61 | 0.97 | - | - | - | 0.32 | - | - |
| 1030 | 0.36 | 12.77 | 0.36 | - | - | - | 0.36 | - | - |
| 1100 | 0.32 | 14.94 | 0.65 | - | - | - | 0.97 | - | - |
| 1130 | 0.36 | 13.72 | 1.44 | - | - | - | 0.36 | - | - |
| 1200 | - | 15.91 | 1.30 | - | - | - | 0.32 | - | - |
| 1230 | 0.36 | 15.41 | 1.08 | - | - | - | - | - | - |
| 1300 | 0.32 | 15.48 | 1.61 | - | - | - | - | - | - |
| 1330 | - | 13.57 | 0.71 | - | - | - | - | - | - |
| 1400 | 0.32 | 15.11 | 1.93 | - | - | - | 0.32 | - | - |
| 1430 | 0.36 | 14.70 | 2.87 | - | - | - | - | - | - |
| 1500 | - | 18.27 | 1.92 | - | - | - | - | - | - |
| 1530 | - | 16.37 | 2.49 | - | - | - | - | - | - |
| 1600 | - | 17.57 | 3.19 | - | - | - | - | - | - |
| 1630 | 0.36 | 15.71 | 2.50 | - | - | - | - | - | - |
| 1700 | 0.32 | 16.18 | 2.91 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 15.60 | 2.84 | - | - | - | 0.35 | - | - |
| 1800 | 0.33 | 17.43 | 3.62 | - | - | - | - | - | - |
| 1830 | - | 18.31 | 5.28 | - | - | - | - | - | - |
| 1900 | 0.32 | 16.83 | 4.21 | - | - | - | - | - | - |
| 1930 | - | 18.73 | 3.89 | - | - | - | 0.35 | - | - |
| 2000 | 0.32 | 18.71 | 2.58 | - | - | - | - | - | - |
| 2030 | - | 17.86 | 2.14 | - | - | - | 0.71 | - | - |
| 2100 | - | 19.74 | 2.63 | - | - | - | 0.66 | - | - |
| 2130 | - | 20.65 | 2.90 | - | - | - | 0.72 | - | - |
| 2200 | 0.32 | 20.00 | 2.26 | - | - | - | - | - | - |
| 2230 | - | 18.79 | 2.84 | - | - | - | - | - | - |
| 2300 | - | 20.00 | 2.22 | - | - | - | - | - | - |
| 2330 | - | 19.20 | 2.54 | - | - | - | 0.36 | - | - |
| Mean | 0.13 | 17.16 | 2.31 | - | - | - | 0.28 | - | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in October are: rain – 17.16%, drizzle – 0.28%, mist – 0.13%.

The activity of thunderstorms in October constitutes 2.31%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

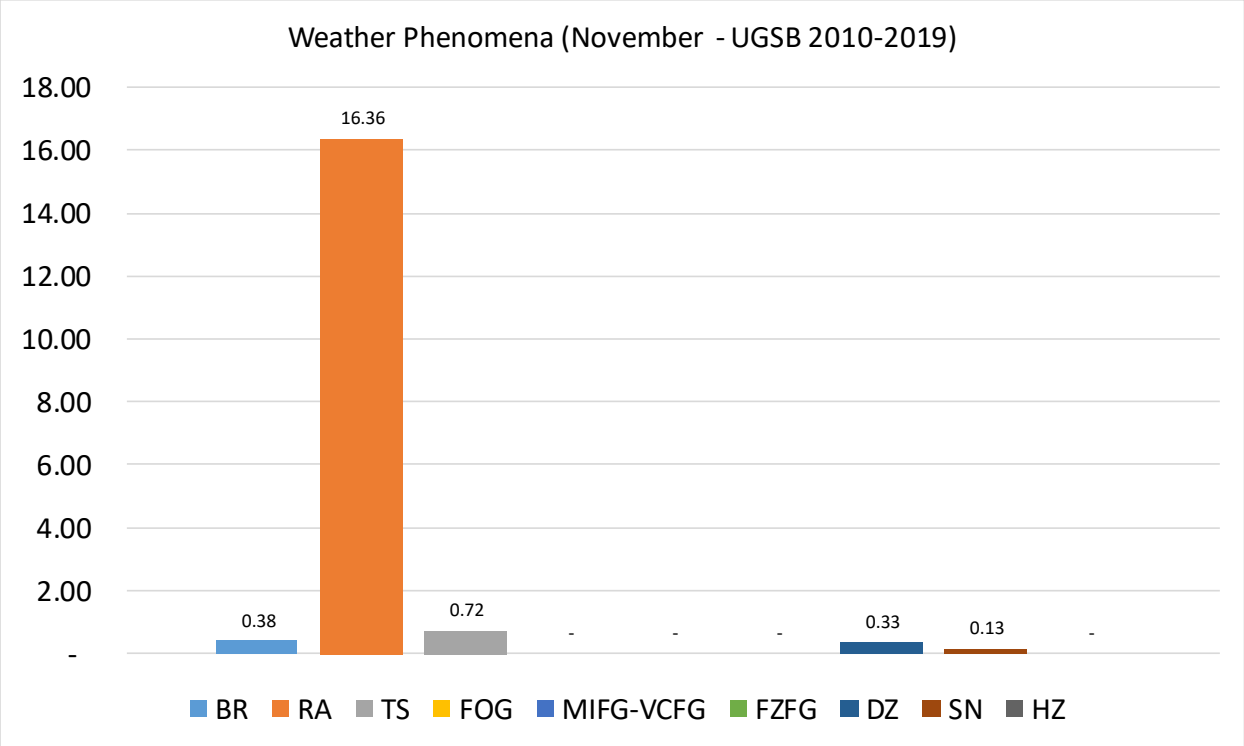
AERODROME: UGSB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | - | 13.95 | 1.36 | - | - | - | 1.02 | - | - |
| 0030 | - | 17.84 | 0.37 | - | - | - | 0.74 | 0.37 | - |
| 0100 | 0.34 | 14.77 | 1.34 | - | - | - | - | 0.34 | - |
| 0130 | 0.37 | 18.66 | 1.87 | - | - | - | 0.37 | - | - |
| 0200 | - | 15.13 | 1.32 | - | - | - | 1.32 | - | - |
| 0230 | - | 16.30 | - | - | - | - | 0.37 | - | - |
| 0300 | - | 13.91 | 0.66 | - | - | - | 0.66 | 0.33 | - |
| 0330 | - | 18.15 | 0.37 | - | - | - | 0.37 | 0.37 | - |
| 0400 | - | 16.05 | 0.67 | - | - | - | - | 0.67 | - |
| 0430 | 0.37 | 15.44 | 0.37 | - | - | - | - | 0.37 | - |
| 0500 | - | 15.33 | 1.00 | - | - | - | - | 0.33 | - |
| 0530 | 0.37 | 16.79 | 1.12 | - | - | - | - | - | - |
| 0600 | 0.33 | 16.05 | 0.67 | - | - | - | - | - | - |
| 0630 | 0.75 | 17.54 | 1.49 | - | - | - | - | - | - |
| 0700 | 0.67 | 15.10 | 0.67 | - | - | - | - | - | - |
| 0730 | 0.75 | 16.92 | - | - | - | - | - | - | - |
| 0800 | 0.66 | 15.23 | 0.33 | - | - | - | - | 0.33 | - |
| 0830 | 0.75 | 15.30 | - | - | - | - | - | - | - |
| 0900 | 0.67 | 15.15 | 0.34 | - | - | - | - | 0.34 | - |
| 0930 | 0.37 | 16.61 | 0.37 | - | - | - | - | - | - |
| 1000 | 0.33 | 14.19 | 0.66 | - | - | - | 0.33 | - | - |
| 1030 | 0.37 | 16.54 | 1.10 | - | - | - | - | 0.37 | - |
| 1100 | 0.67 | 16.78 | 0.34 | - | - | - | - | - | - |
| 1130 | 1.12 | 19.40 | 0.75 | - | - | - | - | 0.37 | - |
| 1200 | 0.67 | 16.72 | 0.67 | - | - | - | - | - | - |
| 1230 | 0.37 | 18.35 | 1.50 | - | - | - | - | - | - |
| 1300 | 1.01 | 16.11 | 0.67 | - | - | - | - | - | - |
| 1330 | 0.74 | 16.61 | 0.37 | - | - | - | 0.37 | 0.37 | - |
| 1400 | 1.01 | 15.54 | 1.01 | - | - | - | 0.34 | - | - |
| 1430 | - | 16.73 | 0.37 | - | - | - | 0.37 | - | - |
| 1500 | 0.68 | 13.85 | 0.34 | - | - | - | - | - | - |
| 1530 | - | 18.52 | 0.37 | - | - | - | - | - | - |
| 1600 | - | 17.67 | - | - | - | - | 0.33 | - | - |
| 1630 | - | 18.28 | 0.37 | - | - | - | - | - | - |
| 1700 | - | 14.67 | 0.67 | - | - | - | - | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 1.12 | 15.67 | 0.37 | - | - | - | 0.37 | - | - |
| 1800 | 0.33 | 16.61 | 0.66 | - | - | - | - | - | - |
| 1830 | 0.37 | 18.52 | 0.74 | - | - | - | 0.37 | - | - |
| 1900 | 0.33 | 14.72 | 1.00 | - | - | - | - | 0.33 | - |
| 1930 | 0.37 | 17.16 | 1.12 | - | - | - | 0.37 | - | - |
| 2000 | - | 16.00 | 1.67 | - | - | - | 0.33 | - | - |
| 2030 | 0.37 | 15.81 | 1.10 | - | - | - | 2.21 | - | - |
| 2100 | 0.67 | 16.39 | 0.67 | - | - | - | 1.34 | 0.33 | - |
| 2130 | - | 18.45 | 0.74 | - | - | - | 2.21 | - | - |
| 2200 | 0.34 | 15.44 | 1.01 | - | - | - | 0.34 | 0.34 | - |
| 2230 | 0.37 | 16.48 | 0.37 | - | - | - | 0.37 | 0.37 | - |
| 2300 | - | 16.33 | 0.33 | - | - | - | 1.00 | - | - |
| 2330 | 0.37 | 17.71 | 1.48 | - | - | - | 0.37 | 0.37 | - |
| Mean | 0.38 | 16.36 | 0.72 | - | - | - | 0.33 | 0.13 | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in November are: rain – 16.36%, mist – 0.38%, drizzle – 0.33%.

The activity of thunderstorms in November constitutes 0.72%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

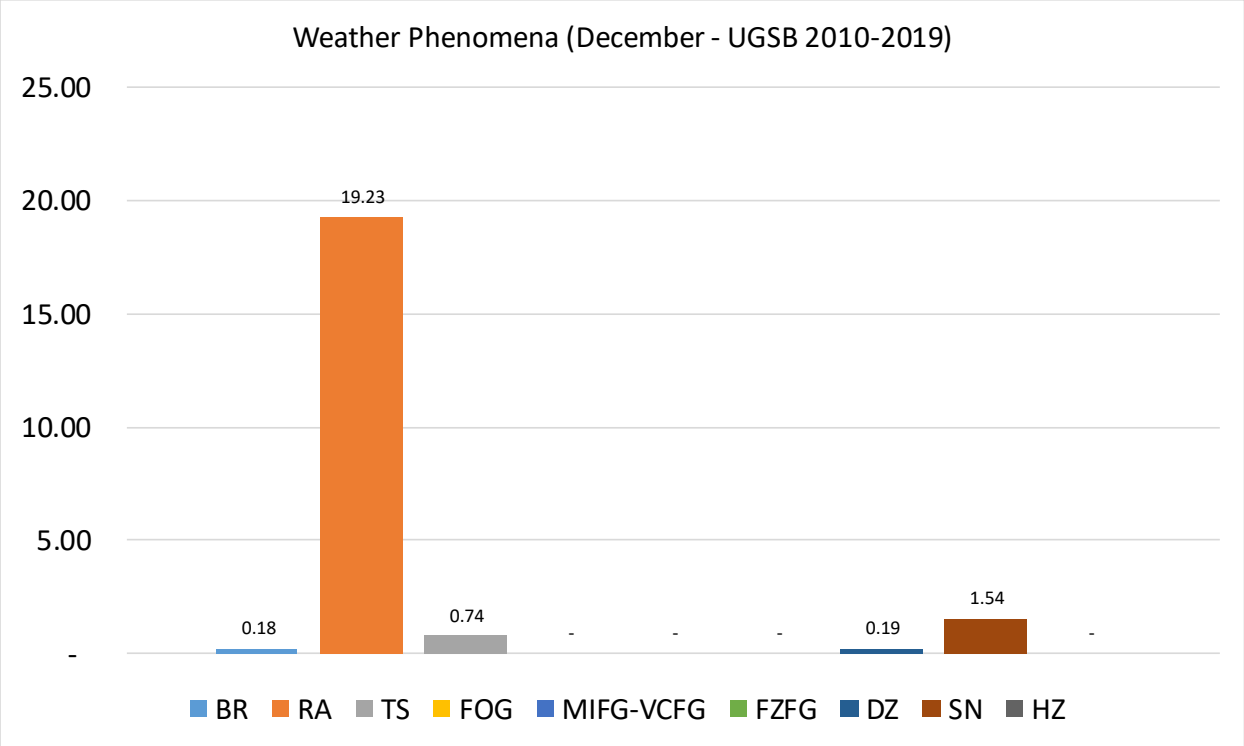
AERODROME: UGSB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | - | 16.07 | 0.33 | - | - | - | 0.33 | 1.64 | - |
| 0030 | - | 17.86 | 0.36 | - | - | - | 0.71 | 1.43 | - |
| 0100 | - | 17.04 | 0.64 | - | - | - | - | 0.96 | - |
| 0130 | - | 20.07 | 0.35 | - | - | - | 0.35 | 1.76 | - |
| 0200 | 0.33 | 17.32 | - | - | - | - | - | 1.31 | - |
| 0230 | - | 19.01 | - | - | - | - | - | 1.06 | - |
| 0300 | - | 16.83 | 0.32 | - | - | - | 0.32 | 1.62 | - |
| 0330 | - | 18.21 | 0.71 | - | - | - | 0.71 | 1.79 | - |
| 0400 | - | 18.06 | - | - | - | - | - | 1.29 | - |
| 0430 | 0.72 | 18.84 | 1.09 | - | - | - | - | 1.45 | - |
| 0500 | 0.32 | 17.86 | 1.62 | - | - | - | 0.65 | 1.62 | - |
| 0530 | 0.36 | 20.94 | 0.72 | - | - | - | 0.36 | 1.44 | - |
| 0600 | 0.32 | 19.29 | 1.29 | - | - | - | - | 1.93 | - |
| 0630 | - | 19.13 | 1.08 | - | - | - | - | 1.81 | - |
| 0700 | - | 18.53 | 0.64 | - | - | - | - | 2.24 | - |
| 0730 | 0.36 | 21.94 | 1.08 | - | - | - | - | 1.80 | - |
| 0800 | 0.65 | 20.97 | 1.61 | - | - | - | - | 2.26 | - |
| 0830 | 0.36 | 22.38 | 0.72 | - | - | - | 0.36 | 2.17 | - |
| 0900 | 0.32 | 19.03 | 0.65 | - | - | - | - | 1.61 | - |
| 0930 | - | 22.43 | 0.37 | - | - | - | - | 2.21 | - |
| 1000 | - | 19.23 | 0.32 | - | - | - | - | 1.60 | - |
| 1030 | - | 20.36 | - | - | - | - | - | 1.82 | - |
| 1100 | - | 18.45 | 0.65 | - | - | - | - | 1.62 | - |
| 1130 | - | 22.43 | - | - | - | - | - | 1.47 | - |
| 1200 | - | 21.52 | - | - | - | - | - | 1.32 | - |
| 1230 | - | 22.74 | 0.72 | - | - | - | - | 1.08 | - |
| 1300 | 0.32 | 21.29 | 0.97 | - | - | - | - | 1.29 | - |
| 1330 | 0.36 | 24.00 | 0.73 | - | - | - | - | 1.82 | - |
| 1400 | - | 21.50 | 1.30 | - | - | - | - | 1.30 | - |
| 1430 | - | 22.34 | 0.73 | - | - | - | 0.37 | 1.83 | - |
| 1500 | 0.32 | 21.75 | - | - | - | - | - | 1.95 | - |
| 1530 | 0.36 | 20.80 | 0.36 | - | - | - | - | 1.46 | - |
| 1600 | 0.32 | 18.59 | 0.32 | - | - | - | 0.32 | 1.28 | - |
| 1630 | 0.36 | 20.14 | 1.08 | - | - | - | 0.36 | 1.44 | - |
| 1700 | 0.32 | 21.10 | 0.65 | - | - | - | - | 1.95 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | - | 20.86 | 1.44 | - | - | - | - | 2.16 | - |
| 1800 | 0.32 | 19.74 | 1.62 | - | - | - | - | 1.62 | - |
| 1830 | 0.36 | 17.08 | 1.42 | - | - | - | - | 1.07 | - |
| 1900 | - | 18.33 | 0.32 | - | - | - | - | 0.96 | - |
| 1930 | 0.71 | 18.21 | 1.79 | - | - | - | - | 0.71 | - |
| 2000 | 0.32 | 16.99 | 1.92 | - | - | - | - | 0.96 | - |
| 2030 | 0.36 | 16.55 | 1.44 | - | - | - | 0.72 | 0.72 | - |
| 2100 | 0.65 | 16.23 | 0.65 | - | - | - | 0.97 | 0.97 | - |
| 2130 | - | 17.20 | 0.72 | - | - | - | 1.79 | 1.79 | - |
| 2200 | - | 16.50 | 0.97 | - | - | - | - | 0.97 | - |
| 2230 | - | 17.67 | 0.71 | - | - | - | 0.35 | 1.77 | - |
| 2300 | - | 14.29 | 0.65 | - | - | - | - | 1.95 | - |
| 2330 | - | 15.22 | 0.36 | - | - | - | 0.36 | 1.45 | - |
| Mean | 0.18 | 19.23 | 0.74 | - | - | - | 0.19 | 1.54 | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in December are: rain – 19.23%, snow – 1.54%, mist – 0.18%.

The activity of thunderstorms in December constitutes 0.74%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

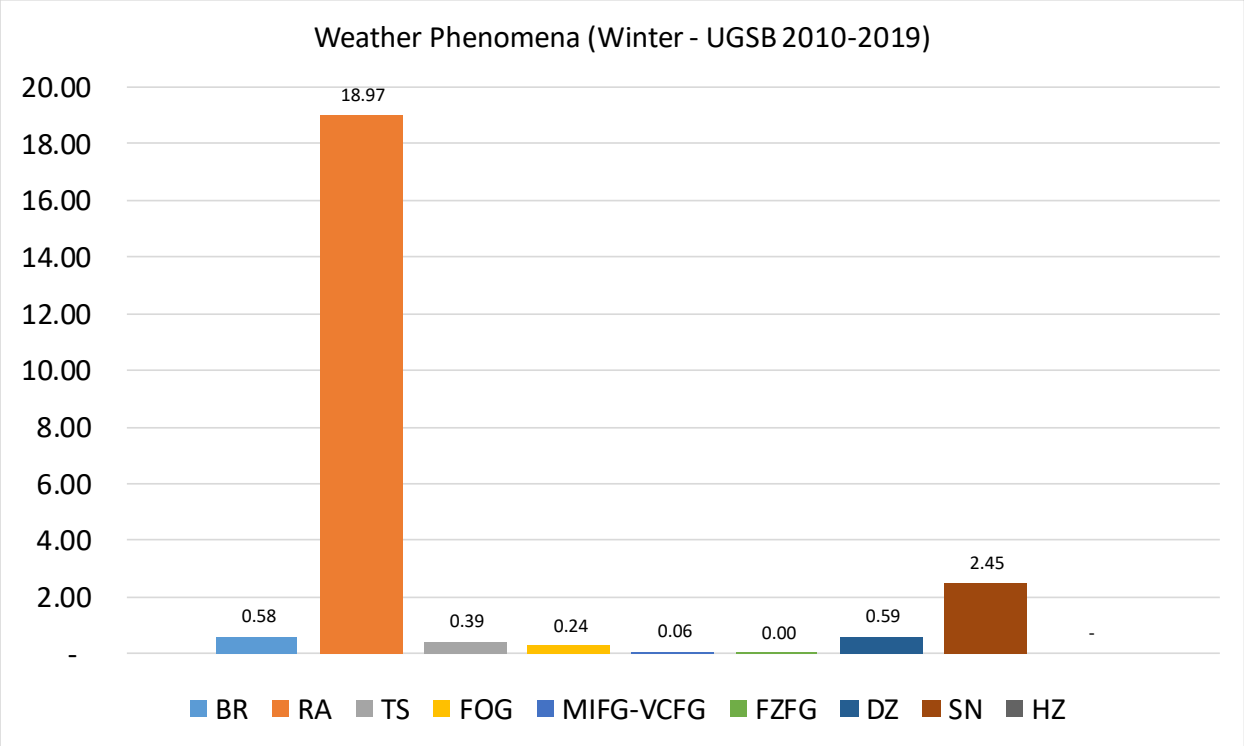
AERODROME: UGSB SEASON: WINTER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 38976 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 0.72 | 19.57 | 0.36 | 0.24 | - | - | 0.95 | 2.98 | - |
| 0030 | 0.66 | 17.82 | 0.40 | 0.27 | - | - | 2.39 | 2.66 | - |
| 0100 | 0.44 | 19.20 | 0.55 | 0.22 | - | - | 1.00 | 2.11 | - |
| 0130 | 0.26 | 18.59 | 0.26 | 0.13 | - | - | 1.44 | 3.01 | - |
| 0200 | 0.59 | 18.72 | 0.12 | 0.24 | - | - | 0.95 | 2.96 | - |
| 0230 | 1.32 | 19.02 | 0.13 | 0.26 | - | - | 1.06 | 2.77 | - |
| 0300 | 0.36 | 18.82 | 0.36 | 0.12 | - | - | 1.54 | 3.67 | - |
| 0330 | - | 18.25 | 0.53 | 0.13 | - | - | 1.19 | 2.78 | - |
| 0400 | 0.22 | 20.82 | 0.33 | 0.11 | 0.22 | - | 0.45 | 2.90 | - |
| 0430 | 0.67 | 19.57 | 0.67 | 0.13 | 0.27 | - | - | 2.68 | - |
| 0500 | 0.56 | 20.24 | 0.89 | 0.11 | 0.22 | - | 0.33 | 3.23 | - |
| 0530 | 0.66 | 19.68 | 0.40 | 0.13 | 0.27 | - | 0.40 | 3.19 | - |
| 0600 | 0.55 | 18.67 | 0.77 | 0.11 | 0.11 | - | 0.11 | 2.87 | - |
| 0630 | 0.13 | 18.96 | 0.53 | - | 0.13 | - | 0.13 | 2.80 | - |
| 0700 | 0.11 | 18.60 | 0.22 | - | 0.11 | - | 0.22 | 2.99 | - |
| 0730 | 0.13 | 18.40 | 0.40 | 0.27 | - | - | 0.40 | 2.80 | - |
| 0800 | 0.56 | 19.00 | 0.56 | 0.11 | - | - | 0.22 | 2.56 | - |
| 0830 | 0.53 | 19.33 | 0.27 | 0.27 | 0.13 | - | 0.40 | 2.93 | - |
| 0900 | 0.78 | 18.51 | 0.33 | 0.22 | 0.11 | - | 0.44 | 2.22 | - |
| 0930 | 0.94 | 18.72 | 0.13 | 0.27 | 0.13 | - | 0.27 | 2.94 | - |
| 1000 | 0.44 | 18.67 | 0.11 | 0.22 | 0.11 | - | 0.22 | 2.11 | - |
| 1030 | 0.13 | 18.34 | - | 0.27 | 0.13 | - | 0.54 | 2.54 | - |
| 1100 | 0.55 | 18.54 | 0.22 | - | 0.22 | - | 0.44 | 2.10 | - |
| 1130 | 0.40 | 18.82 | - | 0.13 | 0.27 | - | 0.54 | 2.42 | - |
| 1200 | 0.45 | 19.20 | 0.11 | 0.11 | - | - | 0.33 | 2.23 | - |
| 1230 | 0.27 | 19.09 | 0.27 | 0.40 | - | - | 0.40 | 2.27 | - |
| 1300 | 0.67 | 19.67 | 0.33 | 0.22 | - | - | 0.44 | 2.00 | - |
| 1330 | 0.40 | 19.41 | 0.40 | 0.27 | - | - | 0.53 | 2.53 | - |
| 1400 | 0.45 | 19.37 | 0.45 | 0.22 | - | - | 0.22 | 2.02 | - |
| 1430 | 0.27 | 20.43 | 0.40 | 0.40 | 0.13 | - | 0.27 | 2.28 | - |
| 1500 | 0.56 | 20.61 | 0.11 | 0.45 | - | - | 0.23 | 2.25 | - |
| 1530 | 0.53 | 19.60 | 0.13 | 0.40 | - | - | 0.13 | 2.40 | - |
| 1600 | 0.56 | 20.11 | 0.11 | 0.44 | - | 0.11 | 0.22 | 2.33 | - |
| 1630 | 0.53 | 19.84 | 0.40 | 0.53 | - | - | 0.27 | 2.40 | - |
| 1700 | 0.47 | 21.39 | 0.35 | 0.35 | - | - | 0.12 | 2.25 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.40 | 19.81 | 0.66 | 0.40 | - | - | 0.13 | 2.26 | - |
| 1800 | 0.48 | 19.71 | 0.60 | 0.36 | - | - | 0.24 | 1.80 | - |
| 1830 | 0.53 | 18.33 | 0.66 | 0.40 | - | - | 0.27 | 1.46 | - |
| 1900 | 0.56 | 18.98 | 0.34 | 0.34 | - | - | 0.11 | 1.81 | - |
| 1930 | 1.20 | 18.09 | 0.66 | 0.40 | - | - | 0.13 | 1.60 | - |
| 2000 | 0.86 | 18.60 | 1.10 | 0.37 | - | - | 0.49 | 1.84 | - |
| 2030 | 1.07 | 17.18 | 0.80 | 0.40 | - | - | 1.60 | 1.73 | - |
| 2100 | 1.37 | 16.83 | 0.37 | 0.25 | - | - | 2.24 | 1.62 | - |
| 2130 | 1.19 | 18.17 | 0.27 | 0.27 | - | - | 1.86 | 2.12 | - |
| 2200 | 0.83 | 17.18 | 0.71 | 0.12 | 0.12 | - | 0.24 | 2.01 | - |
| 2230 | 0.79 | 17.88 | 0.40 | 0.13 | - | - | 0.40 | 2.52 | - |
| 2300 | 0.64 | 17.73 | 0.26 | 0.13 | - | - | 0.26 | 3.06 | - |
| 2330 | 0.94 | 18.41 | 0.40 | 0.27 | - | - | 1.48 | 2.69 | - |
| Mean | 0.58 | 18.97 | 0.39 | 0.24 | 0.06 | 0.00 | 0.59 | 2.45 | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in Winter are: rain – 18.97%, snow – 2.45%, drizzle – 0.59%.

The activity of thunderstorms in Winter constitutes 0.39%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

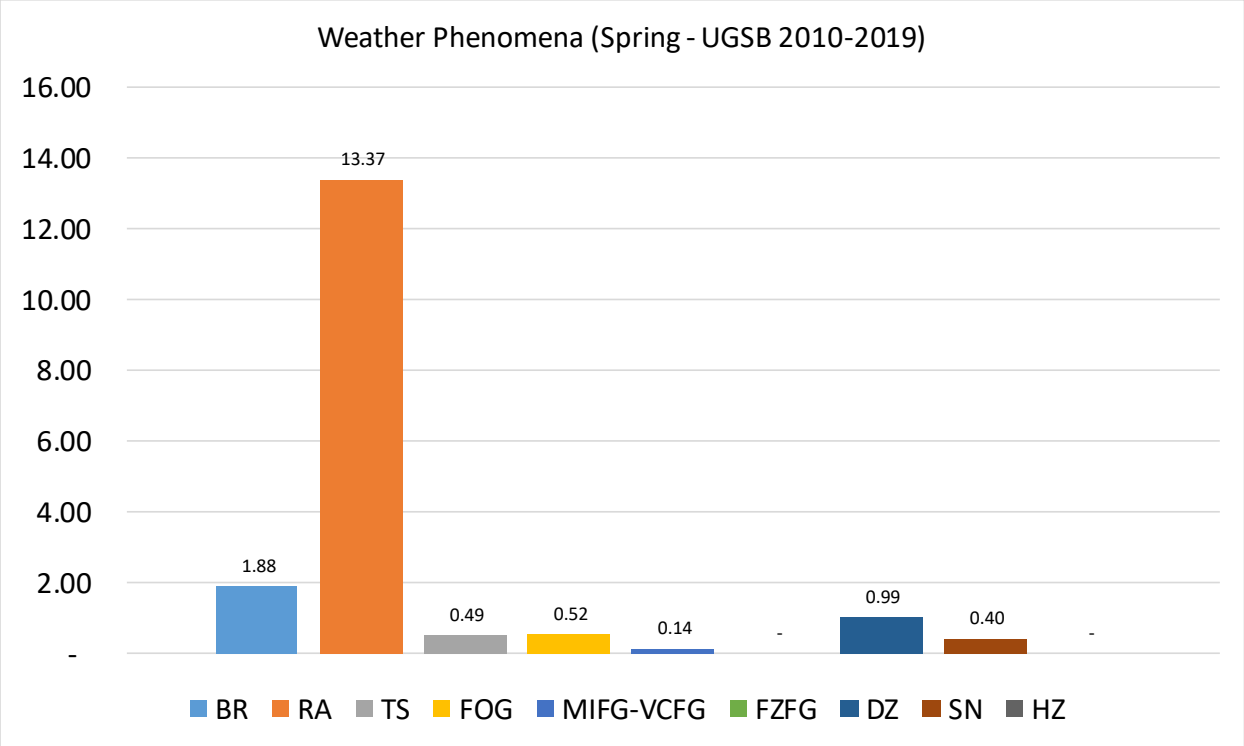
AERODROME: UGSB SEASON: SPRING PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 39744 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 2.01 | 15.72 | 0.25 | 1.01 | 0.13 | - | 2.01 | 0.25 | - |
| 0030 | 2.43 | 13.48 | 0.27 | 1.08 | - | - | 2.43 | 0.27 | - |
| 0100 | 2.79 | 15.72 | 0.22 | 0.78 | - | - | 1.67 | 0.33 | - |
| 0130 | 2.99 | 13.18 | 0.27 | 0.95 | - | - | 1.49 | 0.82 | - |
| 0200 | 2.84 | 13.83 | - | 1.11 | 0.12 | - | 2.35 | 0.49 | - |
| 0230 | 2.42 | 12.25 | - | 0.94 | - | - | 2.02 | 0.40 | - |
| 0300 | 2.94 | 15.30 | 0.12 | 0.73 | 0.12 | - | 1.47 | 0.37 | - |
| 0330 | 2.84 | 13.26 | 0.14 | 0.95 | 0.41 | - | 1.22 | 0.27 | - |
| 0400 | 2.34 | 15.05 | 0.11 | 0.56 | 0.22 | - | 1.00 | 0.45 | - |
| 0430 | 2.31 | 13.72 | 0.27 | 0.41 | - | - | 0.54 | 0.95 | - |
| 0500 | 2.34 | 15.13 | 0.11 | 0.22 | 0.33 | - | 0.44 | 0.56 | - |
| 0530 | 2.19 | 12.72 | - | 0.27 | 0.27 | - | 1.09 | 0.96 | - |
| 0600 | 2.44 | 14.56 | 0.11 | 0.22 | 0.44 | - | 0.67 | 0.78 | - |
| 0630 | 1.77 | 13.20 | 0.41 | 0.41 | 0.41 | - | 0.95 | 0.82 | - |
| 0700 | 2.56 | 12.15 | 0.22 | 0.33 | 0.22 | - | 1.00 | 0.67 | - |
| 0730 | 1.50 | 11.43 | 0.14 | 0.27 | 0.27 | - | 0.14 | 0.68 | - |
| 0800 | 2.35 | 12.51 | 0.22 | 0.22 | 0.22 | - | 0.67 | 0.56 | - |
| 0830 | 0.95 | 11.77 | 0.41 | 0.14 | 0.68 | - | 0.14 | 0.27 | - |
| 0900 | 1.69 | 12.92 | 0.45 | - | 0.45 | - | 0.45 | 0.56 | - |
| 0930 | 1.09 | 11.20 | 0.27 | - | 0.55 | - | 0.14 | 0.82 | - |
| 1000 | 1.34 | 11.37 | 0.45 | 0.11 | 0.45 | - | 0.45 | 0.33 | - |
| 1030 | 1.22 | 12.36 | 0.68 | - | 0.27 | - | 0.41 | 0.41 | - |
| 1100 | 1.34 | 12.65 | 0.22 | 0.11 | 0.22 | - | 0.34 | 0.22 | - |
| 1130 | 1.49 | 10.98 | 0.41 | 0.14 | 0.14 | - | 0.41 | 0.54 | - |
| 1200 | 1.80 | 10.57 | 0.45 | - | 0.11 | - | 0.79 | 0.67 | - |
| 1230 | 2.30 | 11.91 | 0.95 | - | - | - | 0.41 | 0.81 | - |
| 1300 | 1.69 | 12.49 | 0.90 | 0.11 | 0.11 | - | 0.90 | 0.34 | - |
| 1330 | 1.89 | 12.72 | 1.35 | - | 0.14 | - | 0.81 | - | - |
| 1400 | 1.36 | 13.90 | 1.02 | 0.23 | - | - | 0.68 | 0.23 | - |
| 1430 | 1.09 | 13.78 | 1.36 | 0.14 | - | - | 0.55 | - | - |
| 1500 | 1.59 | 13.04 | 1.59 | 0.23 | - | - | 0.68 | - | - |
| 1530 | 1.36 | 14.71 | 1.50 | 0.41 | - | - | 0.54 | - | - |
| 1600 | 1.35 | 14.25 | 1.12 | 0.67 | - | - | 0.79 | - | - |
| 1630 | 0.95 | 13.94 | 1.08 | 0.41 | - | - | 0.54 | 0.14 | - |
| 1700 | 1.48 | 16.63 | 0.86 | 0.37 | - | - | 1.11 | 0.12 | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.95 | 14.09 | 0.54 | 0.54 | - | - | 0.95 | - | - |
| 1800 | 1.75 | 13.11 | 0.37 | 0.62 | - | - | 1.00 | 0.37 | - |
| 1830 | 1.37 | 13.52 | 0.27 | 0.82 | - | - | 0.82 | 0.27 | - |
| 1900 | 1.14 | 13.93 | 0.46 | 0.68 | - | - | 0.91 | 0.11 | - |
| 1930 | 1.36 | 14.93 | 0.41 | 0.81 | - | - | 0.95 | - | - |
| 2000 | 1.68 | 13.68 | 0.39 | 0.77 | 0.13 | - | 1.03 | 0.39 | - |
| 2030 | 2.19 | 12.33 | 0.41 | 0.96 | - | - | 2.05 | 0.55 | - |
| 2100 | 3.17 | 13.08 | 0.53 | 0.92 | - | - | 2.11 | 0.40 | - |
| 2130 | 2.97 | 12.82 | 0.54 | 0.81 | - | - | 1.89 | 0.40 | - |
| 2200 | 1.68 | 12.71 | 0.24 | 0.96 | 0.12 | - | 1.56 | 0.36 | - |
| 2230 | 1.36 | 13.78 | 0.55 | 1.09 | - | - | 0.95 | 0.55 | - |
| 2300 | 1.49 | 15.14 | 0.41 | 1.35 | 0.14 | - | 0.68 | 0.54 | - |
| 2330 | 1.92 | 14.40 | 0.27 | 1.10 | - | - | 1.51 | 0.27 | - |
| Mean | 1.88 | 13.37 | 0.49 | 0.52 | 0.14 | - | 0.99 | 0.40 | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in Spring are: rain – 13.37%, mist – 1.88%, drizzle – 0.99%.

The activity of thunderstorms in Spring constitutes 0.49%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

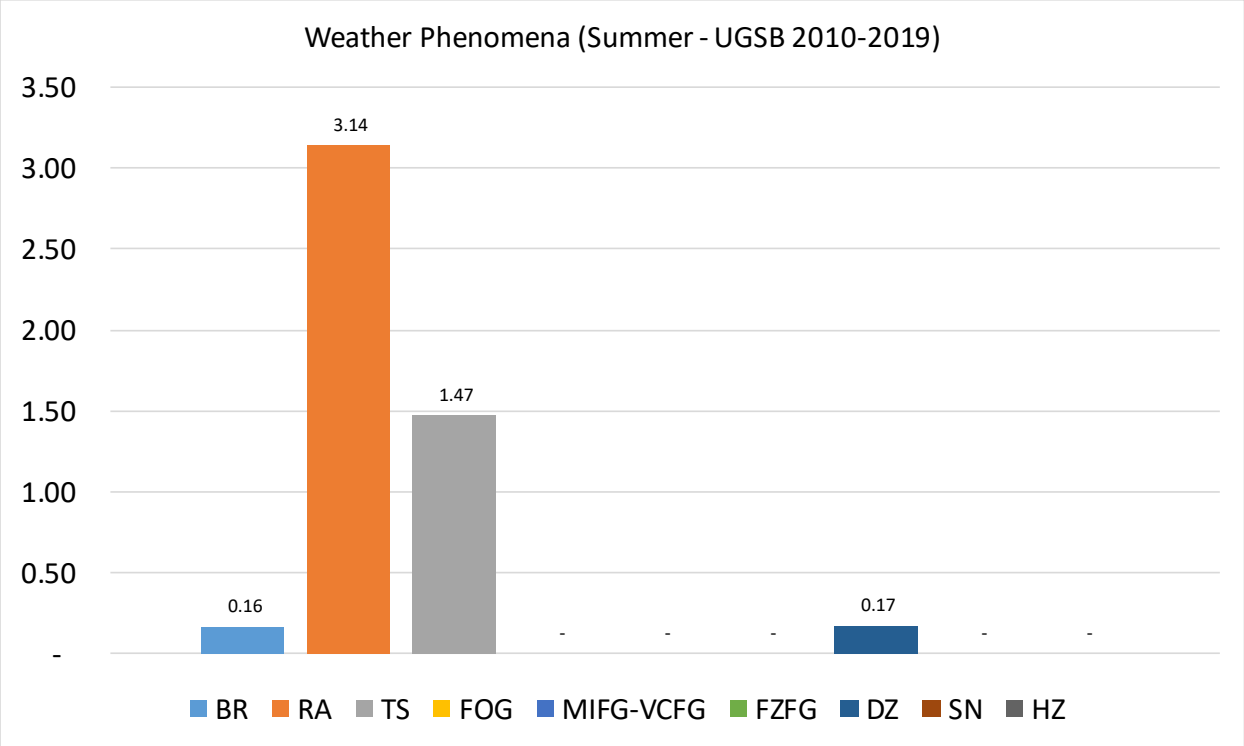
AERODROME: UGSB SEASON: SUMMER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 39744 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 0.17 | 3.52 | 1.99 | - | - | - | 0.13 | - | - |
| 0030 | 0.23 | 3.33 | 1.73 | - | - | - | 0.19 | - | - |
| 0100 | 0.22 | 2.77 | 1.53 | - | - | - | 0.11 | - | - |
| 0130 | 0.22 | 3.31 | 1.73 | - | - | - | 0.46 | - | - |
| 0200 | 0.17 | 3.61 | 1.43 | - | - | - | 0.25 | - | - |
| 0230 | 0.22 | 3.70 | 1.47 | - | - | - | 0.36 | - | - |
| 0300 | 0.19 | 3.35 | 1.24 | - | - | - | 0.08 | - | - |
| 0330 | 0.18 | 3.78 | 1.18 | - | - | - | 0.04 | - | - |
| 0400 | 0.11 | 3.21 | 1.44 | - | - | - | 0.11 | - | - |
| 0430 | 0.22 | 3.06 | 1.44 | - | - | - | 0.18 | - | - |
| 0500 | 0.14 | 2.62 | 1.25 | - | - | - | 0.22 | - | - |
| 0530 | 0.31 | 2.83 | 1.34 | - | - | - | 0.37 | - | - |
| 0600 | 0.11 | 2.87 | 1.05 | - | - | - | 0.15 | - | - |
| 0630 | 0.27 | 2.61 | 0.78 | - | - | - | 0.19 | - | - |
| 0700 | 0.21 | 2.22 | 0.85 | - | - | - | 0.21 | - | - |
| 0730 | 0.31 | 2.14 | 0.77 | - | - | - | 0.14 | - | - |
| 0800 | 0.32 | 1.89 | 0.61 | - | - | - | 0.11 | - | - |
| 0830 | 0.42 | 2.07 | 0.60 | - | - | - | 0.28 | - | - |
| 0900 | 0.22 | 1.81 | 0.47 | - | - | - | 0.11 | - | - |
| 0930 | 0.18 | 2.24 | 0.73 | - | - | - | 0.18 | - | - |
| 1000 | 0.18 | 1.83 | 0.47 | - | - | - | 0.11 | - | - |
| 1030 | 0.14 | 2.17 | 0.36 | - | - | - | 0.18 | - | - |
| 1100 | 0.11 | 1.69 | 0.43 | - | - | - | 0.04 | - | - |
| 1130 | 0.18 | 1.89 | 0.66 | - | - | - | 0.13 | - | - |
| 1200 | 0.18 | 1.67 | 0.69 | - | - | - | 0.04 | - | - |
| 1230 | 0.18 | 1.99 | 1.06 | - | - | - | 0.19 | - | - |
| 1300 | 0.18 | 2.14 | 0.89 | - | - | - | 0.07 | - | - |
| 1330 | 0.09 | 3.35 | 1.18 | - | - | - | 0.13 | - | - |
| 1400 | 0.11 | 2.38 | 0.94 | - | - | - | 0.07 | - | - |
| 1430 | 0.23 | 2.73 | 0.95 | - | - | - | 0.04 | - | - |
| 1500 | 0.22 | 2.53 | 1.03 | - | - | - | 0.04 | - | - |
| 1530 | 0.22 | 3.44 | 1.54 | - | - | - | 0.13 | - | - |
| 1600 | 0.14 | 3.06 | 1.69 | - | - | - | 0.25 | - | - |
| 1630 | 0.04 | 4.04 | 2.13 | - | - | - | 0.22 | - | - |
| 1700 | 0.04 | 4.36 | 2.43 | - | - | - | 0.12 | - | - |

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.09 | 3.84 | 2.86 | - | - | - | 0.09 | - | - |
| 1800 | 0.12 | 4.40 | 2.58 | - | - | - | 0.17 | - | - |
| 1830 | 0.18 | 4.78 | 2.71 | - | - | - | 0.09 | - | - |
| 1900 | - | 4.15 | 2.28 | - | - | - | 0.07 | - | - |
| 1930 | 0.05 | 4.97 | 2.73 | - | - | - | 0.18 | - | - |
| 2000 | 0.08 | 4.03 | 2.65 | - | - | - | 0.08 | - | - |
| 2030 | - | 4.18 | 2.91 | - | - | - | 0.27 | - | - |
| 2100 | 0.04 | 4.35 | 2.16 | - | - | - | 0.29 | - | - |
| 2130 | - | 3.87 | 1.92 | - | - | - | 0.45 | - | - |
| 2200 | 0.04 | 3.73 | 1.61 | - | - | - | 0.15 | - | - |
| 2230 | 0.09 | 4.26 | 2.03 | - | - | - | 0.23 | - | - |
| 2300 | 0.17 | 4.29 | 1.80 | - | - | - | 0.17 | - | - |
| 2330 | 0.23 | 3.56 | 2.11 | - | - | - | 0.18 | - | - |
| Mean | 0.16 | 3.14 | 1.47 | - | - | - | 0.17 | - | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in Summer are: rain – 3.14%, drizzle – 0.17%, mist – 0.16%.

The activity of thunderstorms in Summer constitutes 1.47%.

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

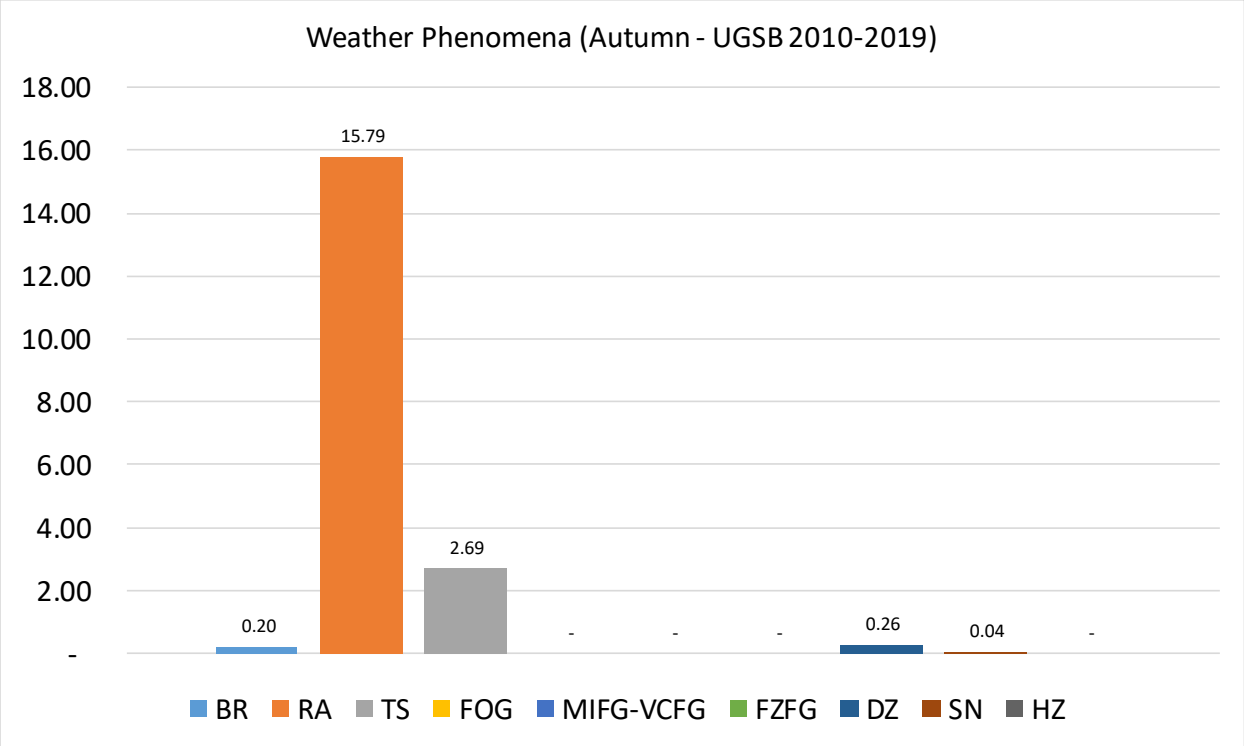
AERODROME: UGSB SEASON: AUTUMN PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 39312 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0000 | 0.12 | 15.56 | 4.07 | - | - | - | 0.46 | - | - |
| 0030 | 0.12 | 16.61 | 3.54 | - | - | - | 0.73 | 0.12 | - |
| 0100 | 0.11 | 16.19 | 3.63 | - | - | - | 0.66 | 0.11 | - |
| 0130 | 0.24 | 17.50 | 3.40 | - | - | - | 0.49 | - | - |
| 0200 | - | 16.46 | 3.04 | - | - | - | 0.90 | - | - |
| 0230 | - | 17.38 | 2.79 | - | - | - | 0.49 | - | - |
| 0300 | - | 16.69 | 2.69 | - | - | - | 0.22 | 0.11 | - |
| 0330 | 0.12 | 17.55 | 2.82 | - | - | - | 0.49 | 0.12 | - |
| 0400 | 0.11 | 17.07 | 2.53 | - | - | - | 0.11 | 0.22 | - |
| 0430 | 0.36 | 15.69 | 2.80 | - | - | - | - | 0.12 | - |
| 0500 | 0.11 | 17.07 | 3.39 | - | - | - | - | 0.11 | - |
| 0530 | 0.25 | 16.75 | 3.69 | - | - | - | 0.12 | - | - |
| 0600 | 0.11 | 15.09 | 2.42 | - | - | - | 0.11 | - | - |
| 0630 | 0.37 | 15.34 | 3.07 | - | - | - | 0.12 | - | - |
| 0700 | 0.22 | 15.28 | 2.33 | - | - | - | 0.11 | - | - |
| 0730 | 0.37 | 16.17 | 2.10 | - | - | - | - | - | - |
| 0800 | 0.22 | 15.15 | 1.88 | - | - | - | - | 0.11 | - |
| 0830 | 0.37 | 13.83 | 1.60 | - | - | - | 0.12 | - | - |
| 0900 | 0.33 | 14.33 | 1.67 | - | - | - | 0.11 | 0.11 | - |
| 0930 | 0.12 | 14.78 | 1.48 | - | - | - | - | - | - |
| 1000 | 0.22 | 12.46 | 1.54 | - | - | - | 0.22 | - | - |
| 1030 | 0.24 | 13.46 | 1.22 | - | - | - | 0.12 | 0.12 | - |
| 1100 | 0.33 | 13.19 | 1.11 | - | - | - | 0.33 | - | - |
| 1130 | 0.49 | 14.80 | 1.60 | - | - | - | 0.12 | 0.12 | - |
| 1200 | 0.22 | 14.59 | 1.66 | - | - | - | 0.11 | - | - |
| 1230 | 0.24 | 14.93 | 1.96 | - | - | - | - | - | - |
| 1300 | 0.44 | 14.68 | 1.88 | - | - | - | - | - | - |
| 1330 | 0.24 | 13.68 | 1.59 | - | - | - | 0.12 | 0.12 | - |
| 1400 | 0.44 | 14.19 | 2.44 | - | - | - | 0.22 | - | - |
| 1430 | 0.12 | 14.46 | 2.33 | - | - | - | 0.12 | - | - |
| 1500 | 0.33 | 15.39 | 2.55 | - | - | - | 0.11 | - | - |
| 1530 | 0.12 | 16.24 | 2.69 | - | - | - | - | - | - |
| 1600 | 0.11 | 16.47 | 2.96 | - | - | - | 0.11 | - | - |
| 1630 | 0.12 | 16.32 | 2.82 | - | - | - | - | - | - |
| 1700 | 0.11 | 15.04 | 2.99 | - | - | - | - | - | - |

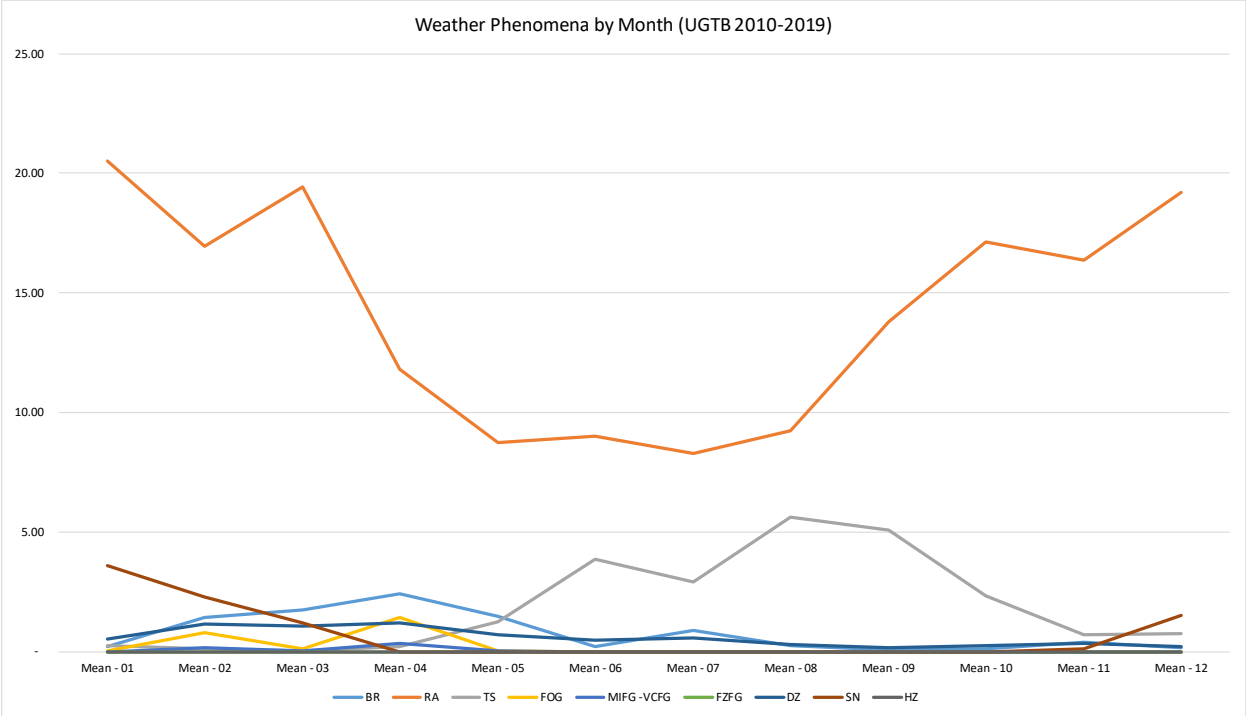
| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 1730 | 0.37 | 14.67 | 2.44 | - | - | - | 0.24 | - | - |
| 1800 | 0.23 | 15.97 | 2.83 | - | - | - | - | - | - |
| 1830 | 0.12 | 17.11 | 3.88 | - | - | - | 0.12 | - | - |
| 1900 | 0.22 | 15.33 | 3.97 | - | - | - | - | 0.11 | - |
| 1930 | 0.12 | 17.46 | 3.66 | - | - | - | 0.24 | - | - |
| 2000 | 0.11 | 16.69 | 3.14 | - | - | - | 0.11 | - | - |
| 2030 | 0.12 | 16.32 | 3.65 | - | - | - | 1.10 | - | - |
| 2100 | 0.23 | 16.95 | 3.07 | - | - | - | 0.91 | 0.11 | - |
| 2130 | - | 17.65 | 3.31 | - | - | - | 1.47 | - | - |
| 2200 | 0.22 | 17.04 | 2.99 | - | - | - | 0.44 | 0.11 | - |
| 2230 | 0.12 | 17.10 | 3.08 | - | - | - | 0.12 | 0.12 | - |
| 2300 | - | 17.97 | 3.13 | - | - | - | 0.33 | - | - |
| 2330 | 0.12 | 17.46 | 3.66 | - | - | - | 0.49 | 0.12 | - |
| Mean | 0.20 | 15.79 | 2.69 | - | - | - | 0.26 | 0.04 | - |




During the climatological period under review, at Batumi International Airport the prevailing weather phenomena in Autumn are: rain – 15.79%, drizzle – 0.26%, mist – 0.20%.

The activity of thunderstorms in Autumn constitutes 2.69%.

| MEAN FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES BY MONTHS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| January | 0.23 | 20.53 | 0.27 | 0.01 | - | 0.01 | 0.51 | 3.62 | - |
| February | 1.44 | 16.96 | 0.11 | 0.79 | 0.18 | - | 1.15 | 2.27 | - |
| March | 1.73 | 19.45 | 0.03 | 0.11 | 0.04 | - | 1.06 | 1.19 | - |
| April | 2.40 | 11.83 | 0.19 | 1.41 | 0.36 | - | 1.20 | - | - |
| May | 1.50 | 8.72 | 1.24 | 0.05 | 0.02 | - | 0.73 | - | - |
| June | 0.21 | 9.02 | 3.85 | - | - | - | 0.50 | - | - |
| July | 0.88 | 8.30 | 2.91 | - | - | - | 0.59 | - | - |
| August | 0.27 | 9.25 | 5.63 | - | - | - | 0.32 | - | - |
| September | 0.08 | 13.80 | 5.08 | - | - | - | 0.16 | - | - |
| October | 0.13 | 17.16 | 2.31 | - | - | - | 0.28 | - | - |
| November | 0.38 | 16.36 | 0.72 | - | - | - | 0.33 | 0.13 | - |
| December | 0.18 | 19.23 | 0.74 | - | - | - | 0.19 | 1.54 | - |



# CORRELATION BETWEEN MONTHLY RAINFALL AND AVERAGE TEMPERATURE

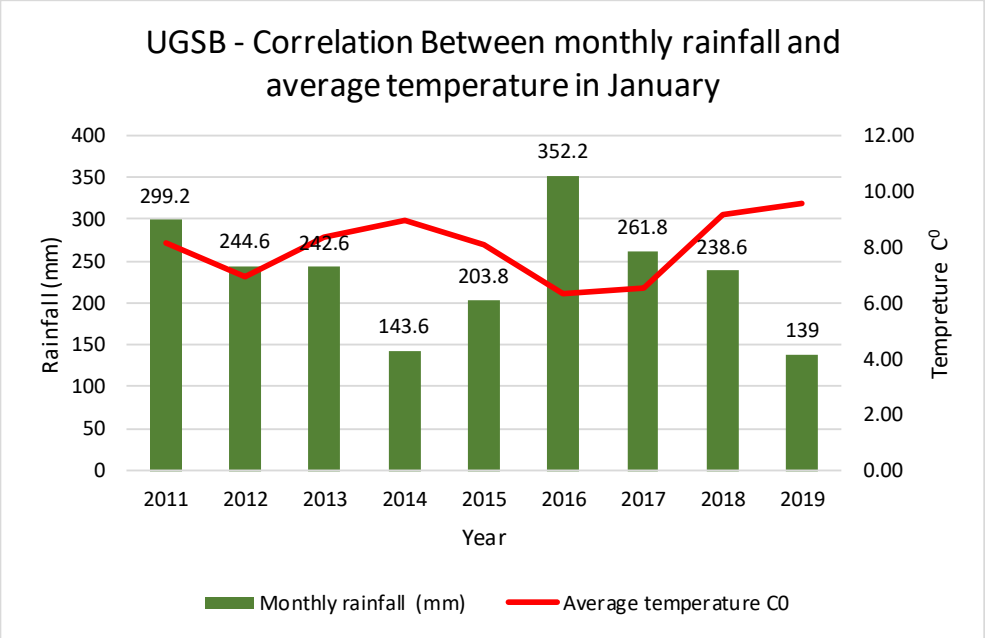
## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: JANUARY PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in January (UGSB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 299.2 | 8.13 |
| 2012 | 244.6 | 6.94 |
| 2013 | 242.6 | 8.37 |
| 2014 | 143.6 | 8.96 |
| 2015 | 203.8 | 8.06 |
| 2016 | 352.2 | 6.35 |
| 2017 | 261.8 | 6.53 |
| 2018 | 238.6 | 9.13 |
| 2019 | 139 | 9.56 |
| Total rainfall | 2125.4 | |

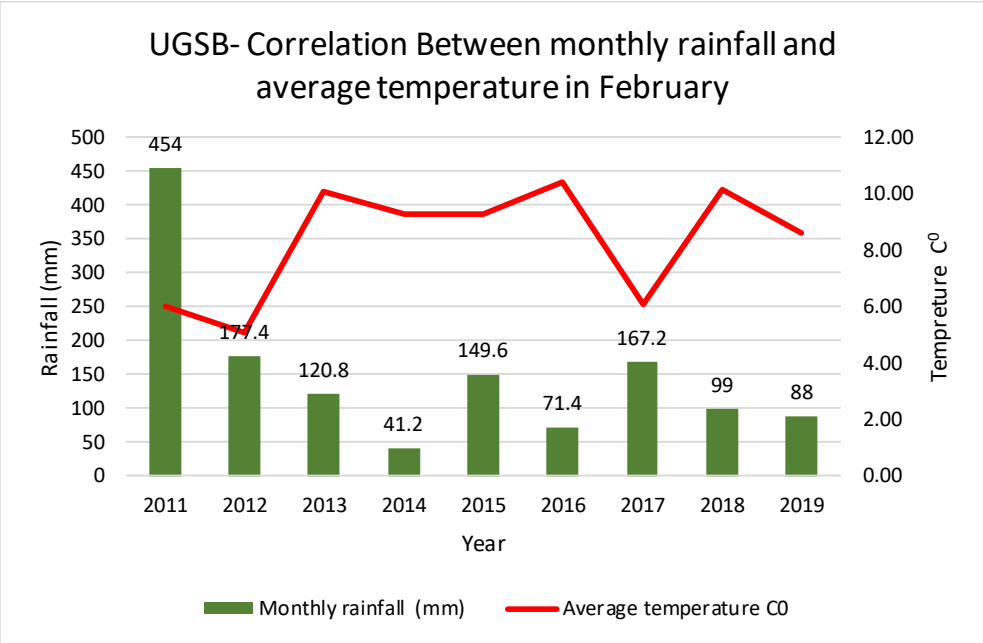


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: FEBRUARY PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in February (UGSB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 454 | 5.98 |
| 2012 | 177.4 | 5.10 |
| 2013 | 120.8 | 10.08 |
| 2014 | 41.2 | 9.25 |
| 2015 | 149.6 | 9.30 |
| 2016 | 71.4 | 10.42 |
| 2017 | 167.2 | 6.11 |
| 2018 | 99 | 10.13 |
| 2019 | 88 | 8.60 |
| Total rainfall | 1368.6 | |

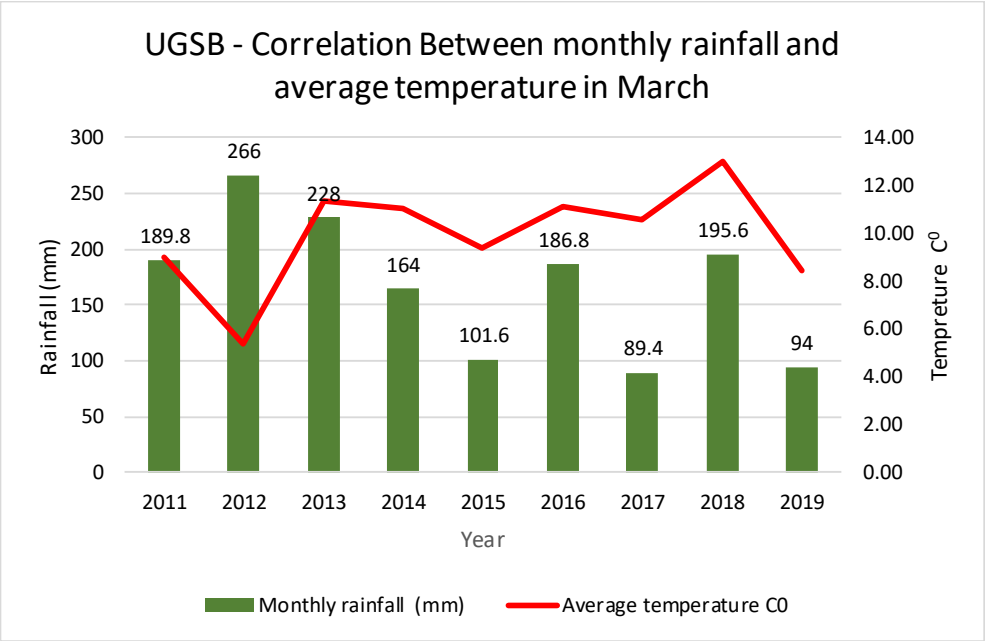


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: MARCH PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in March (UGSB) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 189.8 | 8.98 |
| 2012 | 266 | 5.34 |
| 2013 | 228 | 11.34 |
| 2014 | 164 | 11.02 |
| 2015 | 101.6 | 9.39 |
| 2016 | 186.8 | 11.07 |
| 2017 | 89.4 | 10.58 |
| 2018 | 195.6 | 13.02 |
| 2019 | 94 | 8.44 |
| Total rainfall | 1515.2 | |

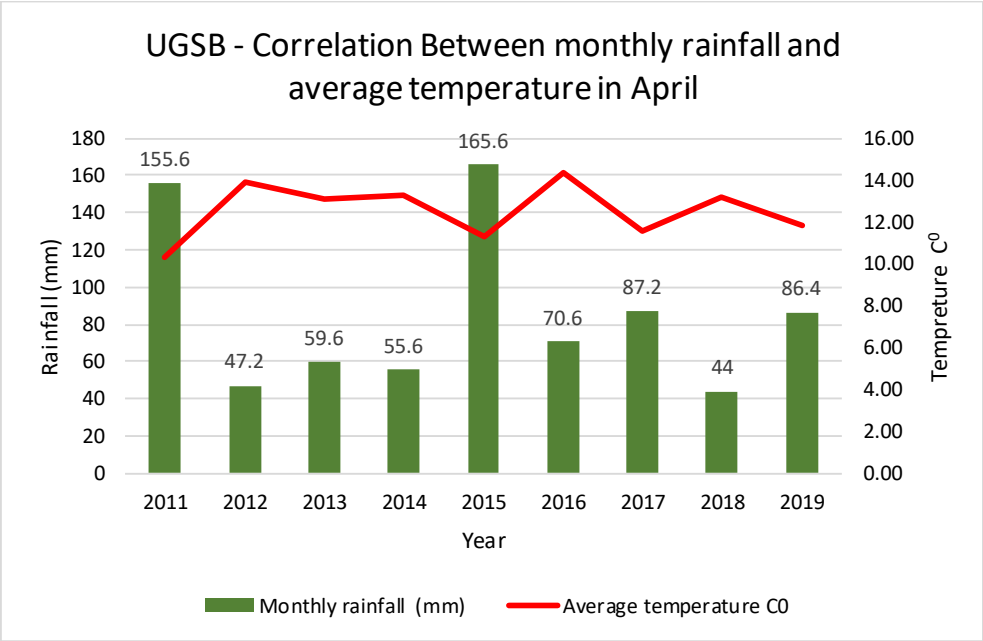


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: APRIL PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in April (UGSB) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 155.6 | 10.34 |
| 2012 | 47.2 | 13.87 |
| 2013 | 59.6 | 13.10 |
| 2014 | 55.6 | 13.31 |
| 2015 | 165.6 | 11.30 |
| 2016 | 70.6 | 14.34 |
| 2017 | 87.2 | 11.59 |
| 2018 | 44 | 13.16 |
| 2019 | 86.4 | 11.82 |
| Total rainfall | 771.8 | |

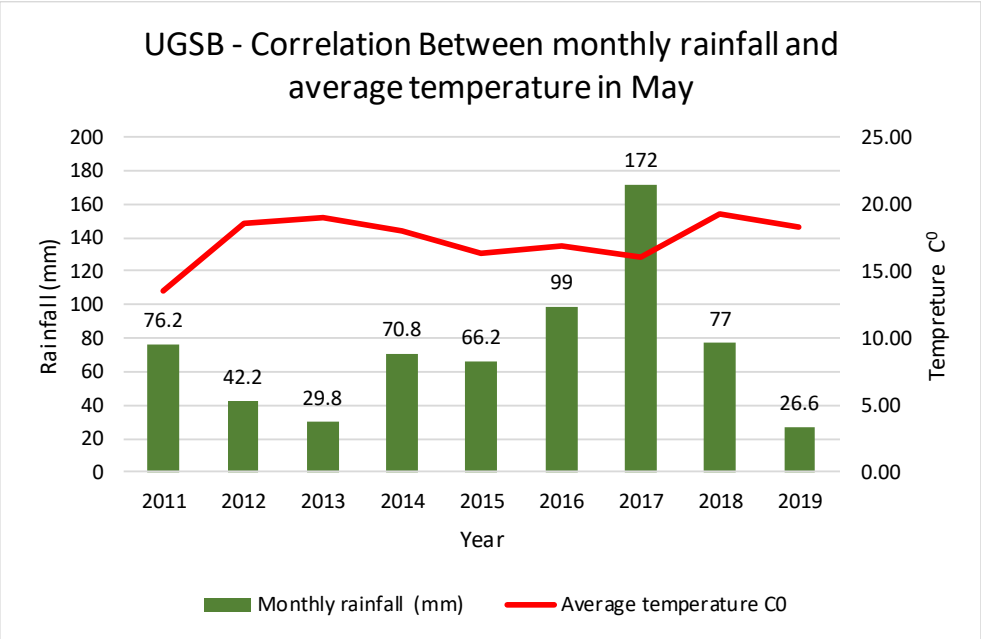


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: MAY PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in May (UGSB) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 76.2 | 13.59 |
| 2012 | 42.2 | 18.57 |
| 2013 | 29.8 | 19.05 |
| 2014 | 70.8 | 18.07 |
| 2015 | 66.2 | 16.31 |
| 2016 | 99 | 16.85 |
| 2017 | 172 | 16.07 |
| 2018 | 77 | 19.29 |
| 2019 | 26.6 | 18.30 |
| total rainfall | 659.8 | |

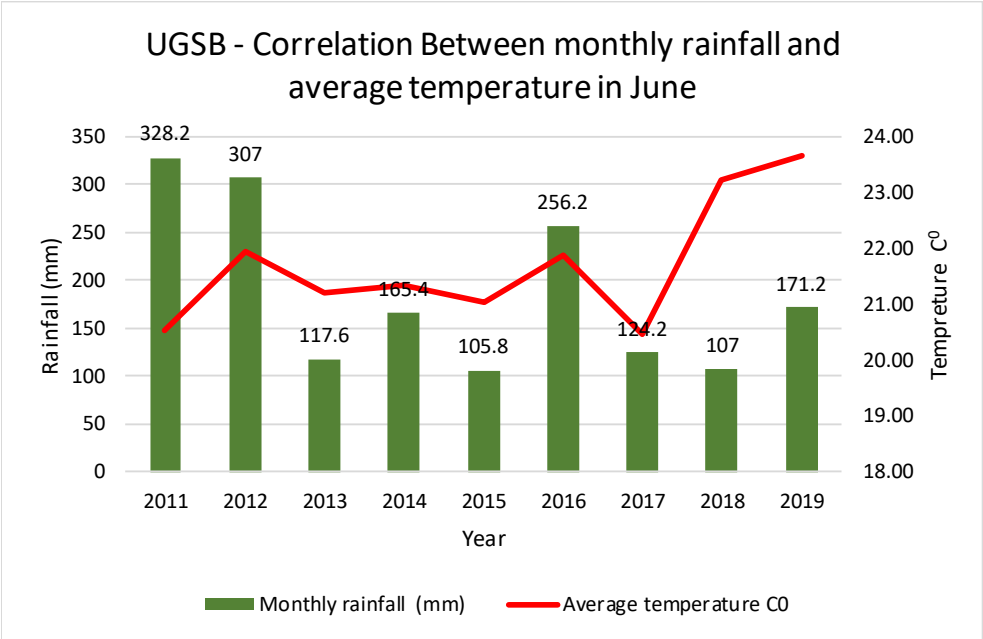


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: JUNE PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in June (UGSB) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 328.2 | 20.52 |
| 2012 | 307 | 21.96 |
| 2013 | 117.6 | 21.22 |
| 2014 | 165.4 | 21.34 |
| 2015 | 105.8 | 21.05 |
| 2016 | 256.2 | 21.89 |
| 2017 | 124.2 | 20.48 |
| 2018 | 107 | 23.24 |
| 2019 | 171.2 | 23.66 |
| Total rainfall | 1682.6 | |

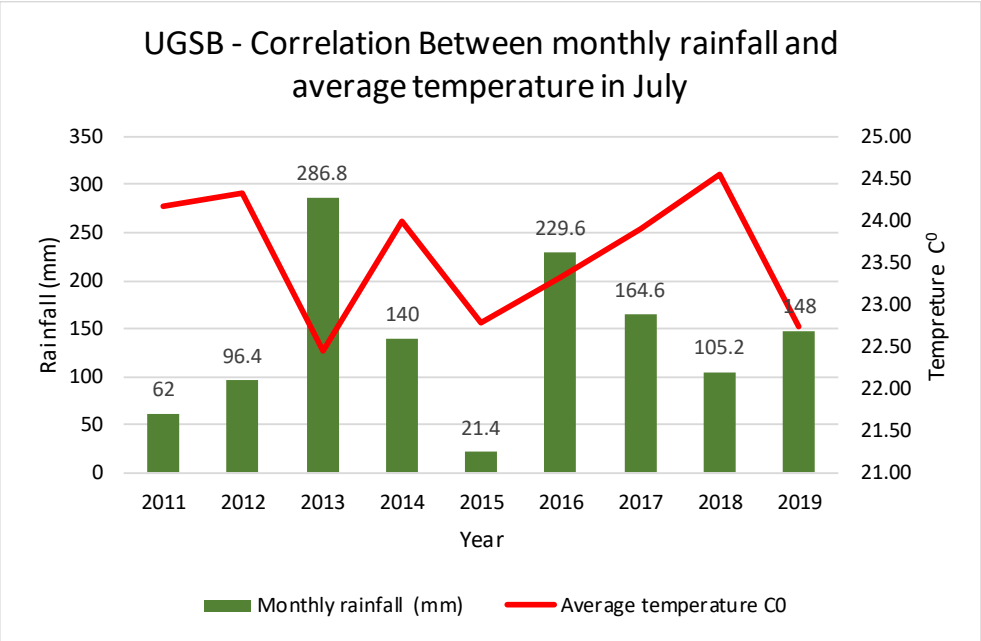


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: JULY PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in July (UGSB) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 62 | 24.17 |
| 2012 | 96.4 | 24.32 |
| 2013 | 286.8 | 22.45 |
| 2014 | 140 | 23.98 |
| 2015 | 21.4 | 22.78 |
| 2016 | 229.6 | 23.32 |
| 2017 | 164.6 | 23.91 |
| 2018 | 105.2 | 24.54 |
| 2019 | 148 | 22.74 |
| Total rainfall | 1254 | |

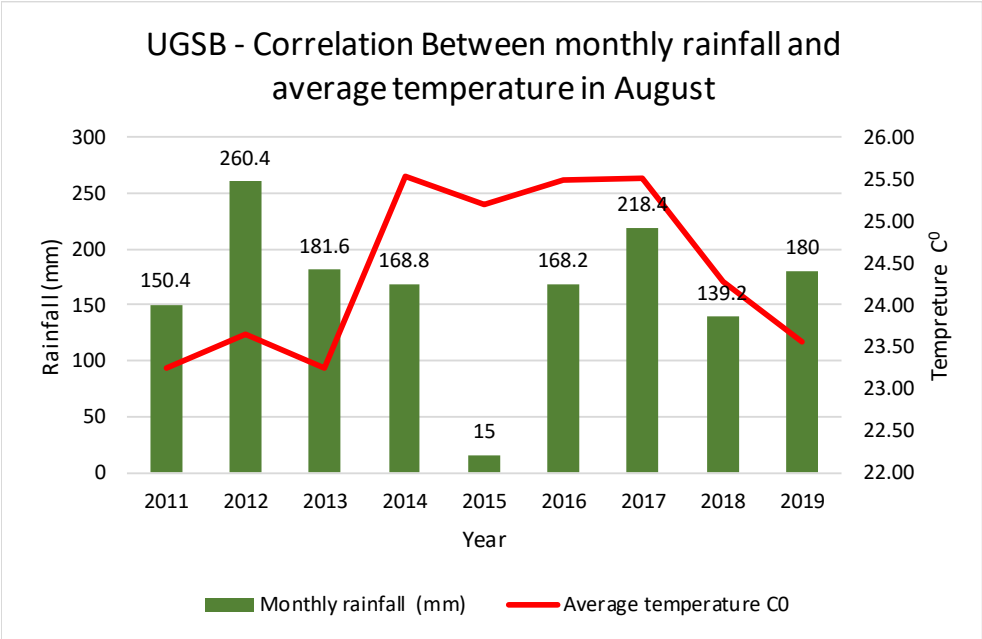


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: AUGUST PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in August (UGSB) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 150.4 | 23.25 |
| 2012 | 260.4 | 23.65 |
| 2013 | 181.6 | 23.25 |
| 2014 | 168.8 | 25.53 |
| 2015 | 15 | 25.19 |
| 2016 | 168.2 | 25.49 |
| 2017 | 218.4 | 25.51 |
| 2018 | 139.2 | 24.28 |
| 2019 | 180 | 23.56 |
| Total rainfall | 1482 | |

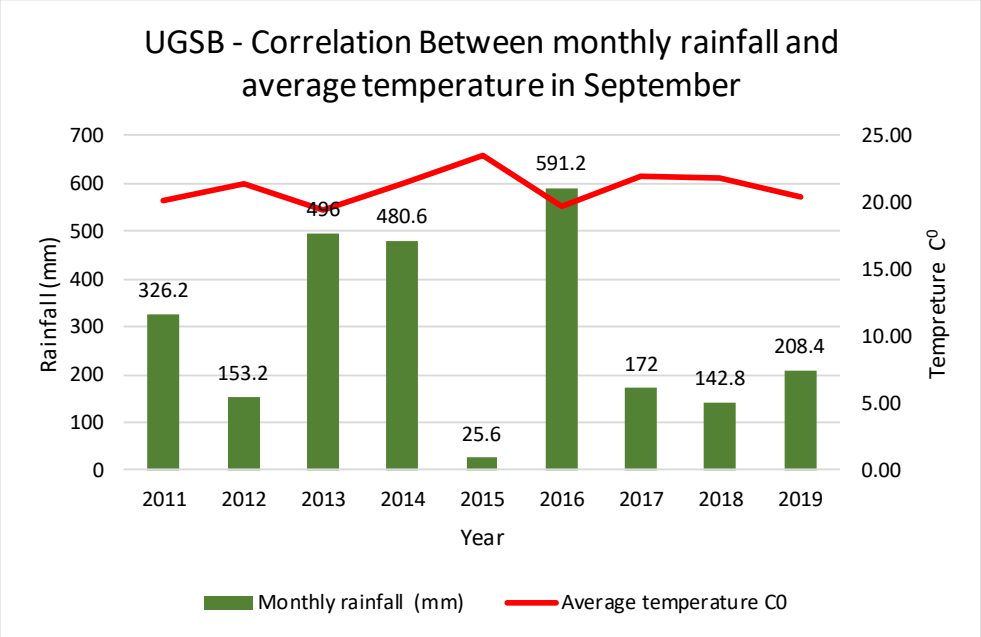


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: SEPTEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in September (UGSB) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 326.2 | 20.19 |
| 2012 | 153.2 | 21.39 |
| 2013 | 496 | 19.51 |
| 2014 | 480.6 | 21.43 |
| 2015 | 25.6 | 23.50 |
| 2016 | 591.2 | 19.66 |
| 2017 | 172 | 21.99 |
| 2018 | 142.8 | 21.86 |
| 2019 | 208.4 | 20.35 |
| Total rainfall | 2596 | |

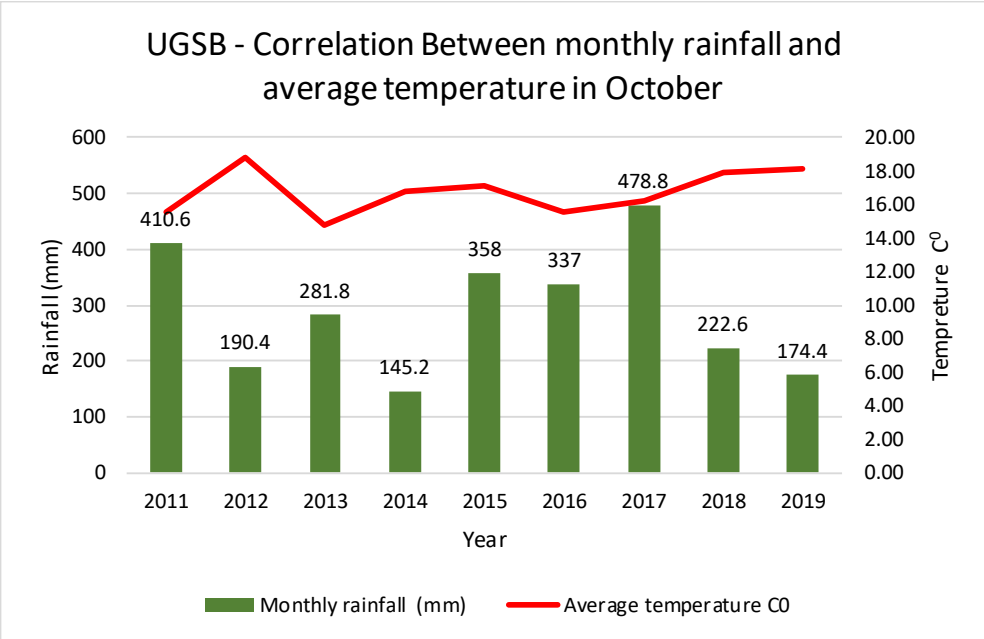


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: OCTOBER PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in October (UGSB) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 410.6 | 15.55 |
| 2012 | 190.4 | 18.76 |
| 2013 | 281.8 | 14.73 |
| 2014 | 145.2 | 16.83 |
| 2015 | 358 | 17.12 |
| 2016 | 337 | 15.58 |
| 2017 | 478.8 | 16.18 |
| 2018 | 222.6 | 17.93 |
| 2019 | 174.4 | 18.15 |
| Total rainfall | 2598.8 | |

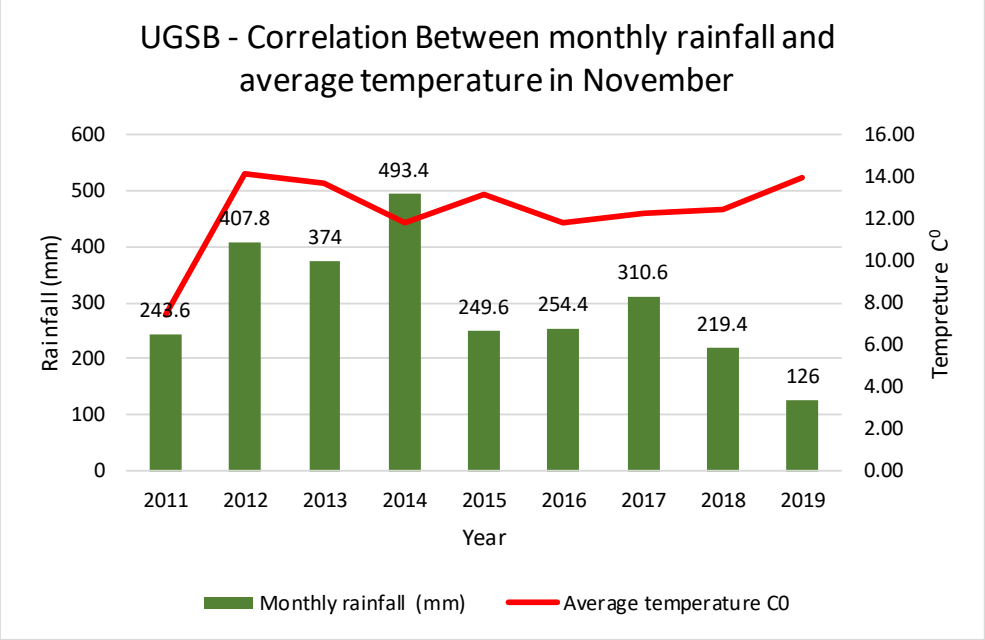


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: NOVEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in November (UGSB) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 243.6 | 7.39 |
| 2012 | 407.8 | 14.15 |
| 2013 | 374 | 13.68 |
| 2014 | 493.4 | 11.79 |
| 2015 | 249.6 | 13.13 |
| 2016 | 254.4 | 11.82 |
| 2017 | 310.6 | 12.21 |
| 2018 | 219.4 | 12.39 |
| 2019 | 126 | 13.93 |
| Total rainfall | 2678.8 | |

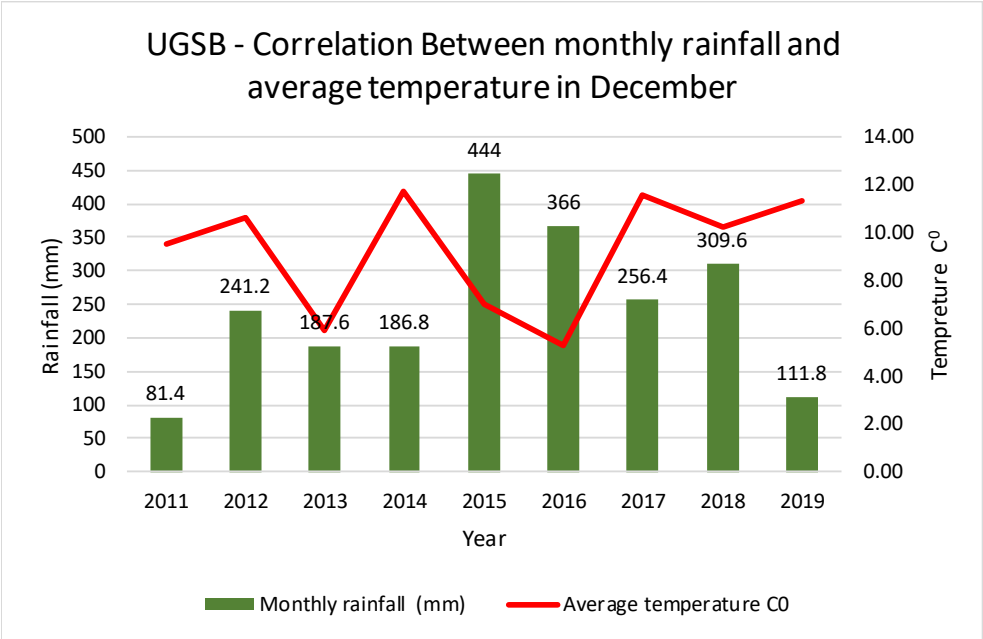


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGSB MONTH: DECEMBER PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Correlation Between monthly rainfall and average temperature in December (UGSB) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2011 | 81.4 | 9.51 |
| 2012 | 241.2 | 10.64 |
| 2013 | 187.6 | 5.92 |
| 2014 | 186.8 | 11.73 |
| 2015 | 444 | 7.04 |
| 2016 | 366 | 5.24 |
| 2017 | 256.4 | 11.60 |
| 2018 | 309.6 | 10.20 |
| 2019 | 111.8 | 11.33 |
| Total rainfall | 2184.8 | |



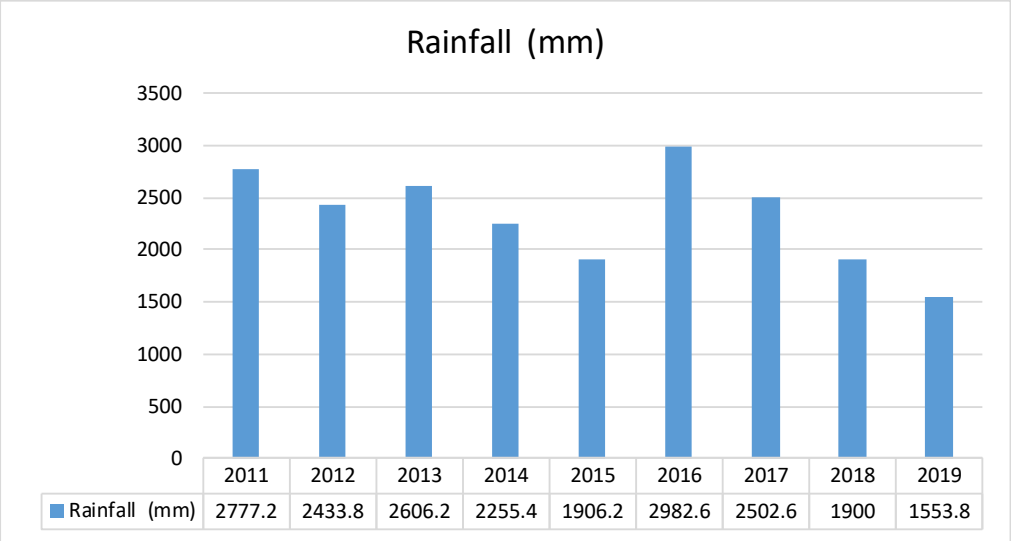
## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL J**
**TABULAR FORM**

AERODROME: UGSB ANNUAL PERIOD OF RECORD: 2011-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| Annual rainfall - UGSB | |
|---|---|
| Year | Rainfall (mm) |
| 2011 | 2777.20 |
| 2012 | 2433.80 |
| 2013 | 2606.20 |
| 2014 | 2255.40 |
| 2015 | 1906.20 |
| 2016 | 2982.60 |
| 2017 | 2502.60 |
| 2018 | 1900.00 |
| 2019 | 1553.80 |



## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL K**
**TABULAR FORM**

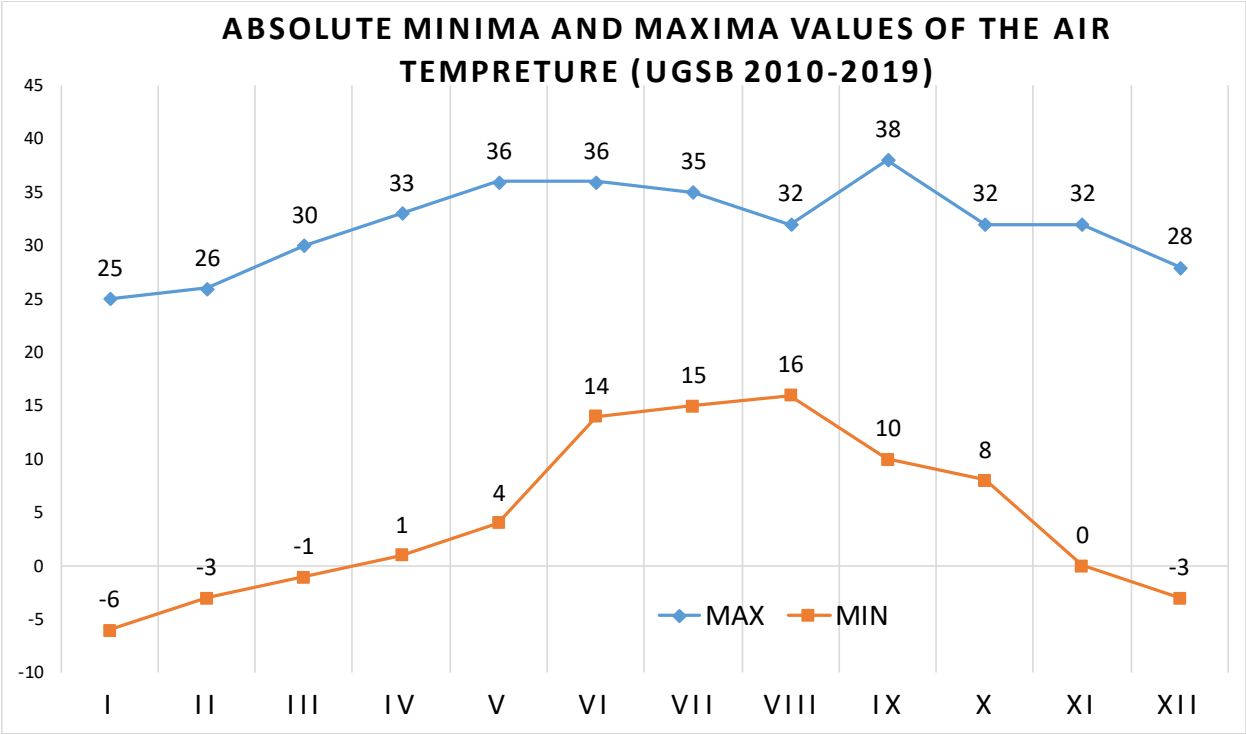
AERODROME: UGSB MONTHLY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 175296 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

Absolute Minimum and Maximum Values of the Air Temperature (UGSB 2010-2019)

| TEMP ($C^0$) | MONTH | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | I | II | III | IV | V | VI | VII | VIII | IX | X | XI | XII |
| MAX | 25 | 26 | 30 | 33 | 36 | 36 | 35 | 32 | 38 | 32 | 32 | 28 |
| MIN | -6 | -3 | -1 | 1 | 4 | 14 | 15 | 16 | 10 | 8 | 0 | -3 |



**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL L**
**TABULAR FORM**

AERODROME: UGSB MONTHLY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 175296 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

MAXIMUM VALUE OF THE WIND GUST (UGSB 2010-2019)

| WIND GUST SPEED | MONTH | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | I | II | III | IV | V | VI | VII | VIII | IX | X | XI | XII |
| KT (KNOT) | 48 | 40 | 51 | 45 | 60 | 38 | 37 | 40 | 42 | 43 | 45 | 49 |
| M / S | 25 | 21 | 26 | 23 | 31 | 20 | 19 | 21 | 22 | 22 | 23 | 25 |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF JANUARY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | | | |
| 0100 | | | |
| 0200 | | | |
| 0300 | | | |
| 0400 | | | |
| 0500 | | | |
| 0600 | WORSE | GOOD | |
| 0700 | WORSE | GOOD | |
| 0800 | WORSE | GOOD | |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | |
| 1300 | WORSE | GOOD | |
| 1400 | WORSE | GOOD | |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | | | |
| 2100 | | | |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | | | |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF FEBRUARY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | | |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | |
| 0600 | WORSE | GOOD | |
| 0700 | WORSE | GOOD | |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | |
| 1500 | WORSE | GOOD | |
| 1600 | WORSE | GOOD | |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | |
| 2100 | WORSE | GOOD | |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: MARCH PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF MARCH) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: APRIL PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF APRIL) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | |
| 0100 | WORSE | | |
| 0200 | WORSE | | |
| 0300 | | | |
| 0400 | WORSE | | |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | |
| 0700 | | | |
| 0800 | WORSE | | |
| 0900 | WORSE | GOOD | |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | | |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | |
| 1400 | WORSE | GOOD | |
| 1500 | WORSE | GOOD | |
| 1600 | WORSE | GOOD | |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | |
| 1900 | WORSE | GOOD | |
| 2000 | WORSE | GOOD | |
| 2100 | WORSE | | |
| 2200 | WORSE | | |
| 2300 | WORSE | | |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: MAY PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF MAY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | | | |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: JUNE PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF JUNE) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | | | |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | | | |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | | | |
| 1500 | | | |
| 1600 | | | |
| 1700 | | | |
| 1800 | | | |
| 1900 | | | |
| 2000 | | | |
| 2100 | | | |
| 2200 | | | |
| 2300 | | | |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: JULY PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF JULY) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | | | |
| 0100 | | | |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | | | |
| 1900 | | | |
| 2000 | | | |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF AUGUST) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | | | |
| 0100 | | | |
| 0200 | | | |
| 0300 | | | |
| 0400 | | | |
| 0500 | | | |
| 0600 | | | |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | | | |
| 1700 | | | |
| 1800 | | | |
| 1900 | | | |
| 2000 | | | |
| 2100 | | | |
| 2200 | | | |
| 2300 | | | |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF SEPTEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | | | |
| 0100 | | | |
| 0200 | | | |
| 0300 | | | |
| 0400 | | | |
| 0500 | | | |
| 0600 | | | |
| 0700 | | | |
| 0800 | | | |
| 0900 | | | |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | | | |
| 1500 | | | |
| 1600 | | | |
| 1700 | | | |
| 1800 | | | |
| 1900 | | | |
| 2000 | | | |
| 2100 | | | |
| 2200 | | | |
| 2300 | | | |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF OCTOBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | | | |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF NOVEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL M**
**TABULAR FORM**

AERODROME: UGSB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

| TIME (UTC) | DEPARTURE AND ARRIVAL FOR UGSB AIRPORT (MONTH OF DECEMBER) | | |
|---|---|---|---|
| | WORSE TIME | GOOD TIME | BETTER TIME |
| 0000 | WORSE | GOOD | BETTER |
| 0100 | WORSE | GOOD | BETTER |
| 0200 | WORSE | GOOD | BETTER |
| 0300 | WORSE | GOOD | BETTER |
| 0400 | WORSE | GOOD | BETTER |
| 0500 | WORSE | GOOD | BETTER |
| 0600 | WORSE | GOOD | BETTER |
| 0700 | WORSE | GOOD | BETTER |
| 0800 | WORSE | GOOD | BETTER |
| 0900 | WORSE | GOOD | BETTER |
| 1000 | WORSE | GOOD | BETTER |
| 1100 | WORSE | GOOD | BETTER |
| 1200 | WORSE | GOOD | BETTER |
| 1300 | WORSE | GOOD | BETTER |
| 1400 | WORSE | GOOD | BETTER |
| 1500 | WORSE | GOOD | BETTER |
| 1600 | WORSE | GOOD | BETTER |
| 1700 | WORSE | GOOD | BETTER |
| 1800 | WORSE | GOOD | BETTER |
| 1900 | WORSE | GOOD | BETTER |
| 2000 | WORSE | GOOD | BETTER |
| 2100 | WORSE | GOOD | BETTER |
| 2200 | WORSE | GOOD | BETTER |
| 2300 | WORSE | GOOD | BETTER |

## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

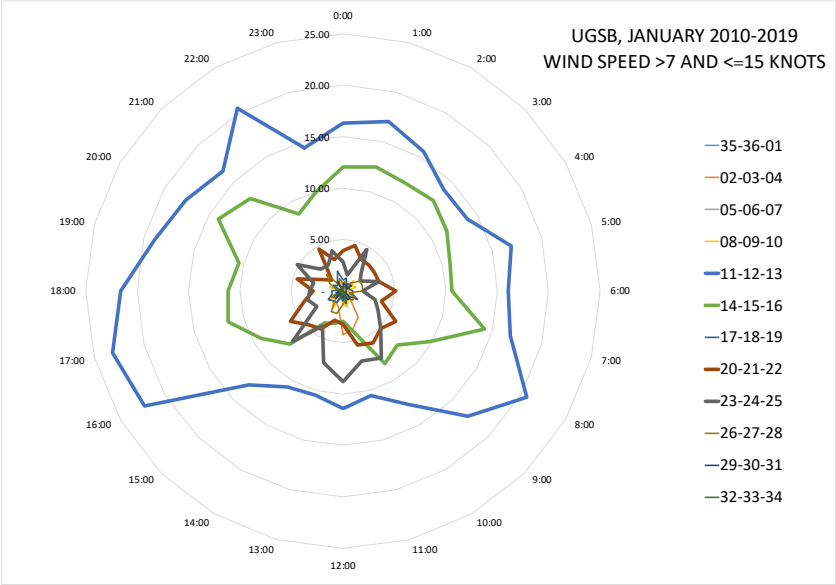
AERODROME: UGSB MONTH: JANUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | - | - | - | 16.312 | 12.057 | 1.064 | 3.901 | 2.837 | 0.709 | 0.709 | - |
| 1:00 | - | - | 0.656 | 0.984 | 17.049 | 12.459 | 1.311 | 4.590 | 1.639 | 0.984 | 0.656 | 0.328 |
| 2:00 | - | - | - | - | 15.658 | 12.100 | 0.712 | 3.559 | 4.626 | 0.356 | 0.712 | - |
| 3:00 | - | - | - | 1.423 | 13.879 | 12.456 | 1.068 | 3.559 | 2.491 | 1.068 | 0.356 | - |
| 4:00 | - | 0.325 | 0.325 | 0.974 | 13.961 | 11.688 | 0.649 | 3.571 | 1.948 | 1.948 | 0.974 | - |
| 5:00 | - | - | 0.326 | 1.303 | 16.938 | 10.749 | 0.651 | 3.583 | 3.583 | 1.954 | 0.326 | - |
| 6:00 | - | 0.322 | 0.322 | 0.322 | 16.077 | 10.611 | 0.965 | 5.145 | 1.929 | 1.929 | 0.322 | - |
| 7:00 | - | 0.324 | 0.971 | 0.647 | 16.828 | 14.239 | 0.971 | 3.883 | 3.236 | 0.647 | 0.324 | - |
| 8:00 | - | - | 0.656 | 1.311 | 20.656 | 9.836 | 1.639 | 5.902 | 3.934 | 1.311 | 0.328 | 0.328 |
| 9:00 | - | 0.974 | 0.325 | 1.299 | 17.208 | 7.468 | 0.649 | 5.195 | 5.195 | 1.299 | 0.974 | 0.325 |
| 10:00 | - | 2.932 | 0.651 | 0.977 | 12.704 | 8.143 | - | 5.863 | 7.492 | 0.651 | 0.977 | 0.326 |
| 11:00 | - | 3.834 | 1.278 | 1.597 | 10.543 | 4.153 | - | 5.431 | 7.029 | 0.958 | 0.319 | 1.278 |
| 12:00 | - | 4.235 | - | 1.303 | 11.401 | 2.932 | 0.977 | 3.257 | 8.795 | 1.303 | 0.651 | - |
| 13:00 | - | 1.634 | 0.327 | 0.654 | 10.458 | 3.268 | 0.654 | 2.941 | 7.190 | 2.288 | 0.654 | 0.654 |
| 14:00 | - | 1.307 | 0.327 | 1.961 | 10.784 | 3.595 | 1.307 | 4.248 | 3.922 | 2.288 | 0.327 | - |
| 15:00 | - | - | 0.662 | 1.325 | 12.914 | 7.285 | 1.325 | 4.636 | 6.954 | 0.993 | 0.993 | - |
| 16:00 | - | - | 0.328 | 1.639 | 22.295 | 9.180 | 1.639 | 5.902 | 2.951 | 1.311 | 0.328 | 0.984 |
| 17:00 | - | - | - | 0.702 | 23.158 | 11.579 | 1.053 | 3.860 | 3.509 | 0.351 | 0.702 | - |
| 18:00 | - | - | - | - | 21.583 | 11.151 | 1.079 | 2.878 | 3.237 | - | 0.360 | 0.360 |
| 19:00 | - | - | 0.327 | 1.307 | 18.954 | 10.458 | 0.327 | 4.575 | 2.941 | 0.654 | 0.327 | - |
| 20:00 | - | - | - | 0.368 | 17.647 | 13.971 | 1.103 | 2.206 | 5.147 | 1.471 | 0.368 | - |
| 21:00 | - | - | - | - | 16.479 | 12.734 | 0.749 | 1.498 | 2.996 | 2.247 | - | - |
| 22:00 | - | - | 0.360 | - | 20.504 | 8.633 | 1.079 | 4.676 | 2.878 | 0.719 | 1.079 | 0.360 |
| 23:00 | - | - | - | 0.800 | 14.400 | 10.000 | 2.000 | 3.200 | 4.000 | 1.200 | - | 0.400 |
| Mean | - | 0.662 | 0.327 | 0.871 | 16.183 | 9.614 | 0.957 | 4.086 | 4.186 | 1.193 | 0.532 | 0.223 |




In January

Land breeze is dominated all time period;

Mostly Sea breeze is from
10:00 up to 13:00.
UTC time

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

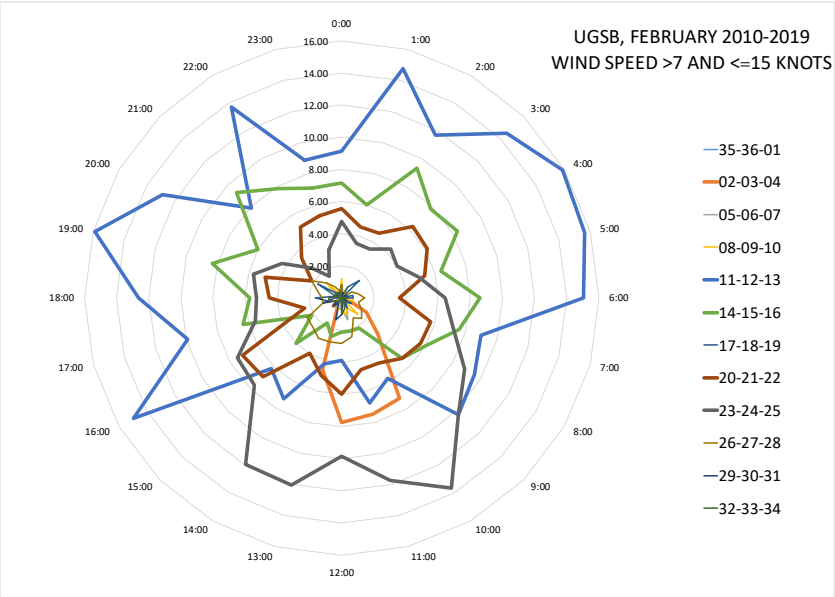
AERODROME: UGSB MONTH: FEBRUARY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12192 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | - | - | 1.190 | 9.127 | 7.143 | 0.794 | 5.556 | 4.762 | 0.794 | - | - |
| 1:00 | - | - | - | 0.352 | 14.789 | 5.986 | - | 4.577 | 3.521 | - | 0.352 | - |
| 2:00 | - | - | - | 0.778 | 11.673 | 9.339 | 0.778 | 4.669 | 3.502 | 0.389 | - | - |
| 3:00 | - | - | - | - | 14.510 | 7.843 | 1.569 | 6.275 | 4.314 | - | - | - |
| 4:00 | - | - | - | 0.361 | 15.884 | 8.303 | - | 6.137 | 3.971 | 0.722 | 0.361 | - |
| 5:00 | - | - | - | 0.356 | 15.658 | 6.406 | 0.712 | 5.338 | 4.982 | 1.068 | - | - |
| 6:00 | - | 0.358 | 0.358 | 0.717 | 15.054 | 8.602 | 0.717 | 3.584 | 6.452 | 1.434 | 0.358 | 0.358 |
| 7:00 | - | 0.360 | - | 0.719 | 8.993 | 7.554 | - | 5.755 | 7.194 | 1.079 | - | - |
| 8:00 | - | 1.767 | - | - | 9.541 | 6.007 | 0.707 | 5.654 | 8.834 | 1.413 | 0.353 | - |
| 9:00 | - | 3.191 | - | 1.418 | 10.284 | 5.319 | 0.355 | 5.319 | 10.284 | 1.773 | - | - |
| 10:00 | - | 7.194 | 0.719 | 0.719 | 5.755 | 2.158 | 0.719 | 4.676 | 13.669 | 1.439 | - | 0.360 |
| 11:00 | - | 7.473 | 1.423 | 1.068 | 6.762 | 2.135 | - | 4.626 | 11.744 | 2.491 | 0.356 | 0.712 |
| 12:00 | - | 7.746 | 0.704 | 0.704 | 3.873 | 2.113 | 0.704 | 5.986 | 9.859 | 2.817 | 1.056 | 1.056 |
| 13:00 | - | 4.610 | 0.709 | 0.709 | 4.255 | 2.482 | - | 4.965 | 12.057 | 2.837 | 1.418 | - |
| 14:00 | - | 0.362 | 0.725 | - | 7.246 | 1.812 | 0.362 | 3.986 | 11.957 | 2.899 | 0.362 | - |
| 15:00 | - | 0.730 | 0.365 | - | 6.204 | 4.015 | 0.730 | 6.934 | 7.664 | 2.555 | 0.730 | 0.365 |
| 16:00 | - | 0.356 | - | 0.356 | 14.947 | 2.135 | 0.356 | 7.117 | 7.473 | 2.491 | 0.356 | 0.356 |
| 17:00 | - | - | 0.397 | - | 9.921 | 6.349 | 0.794 | 2.381 | 5.556 | 1.190 | 1.190 | 0.794 |
| 18:00 | - | - | - | - | 12.653 | 5.714 | 1.633 | 4.490 | 5.306 | 1.224 | 0.408 | 0.816 |
| 19:00 | - | - | - | - | 15.909 | 8.333 | 0.379 | 4.924 | 5.682 | 1.515 | - | 0.379 |
| 20:00 | - | - | - | 0.429 | 12.876 | 6.009 | 1.717 | 2.146 | 4.292 | 2.146 | 0.429 | - |
| 21:00 | - | 0.441 | 0.881 | 1.322 | 7.930 | 9.251 | 0.441 | 3.524 | 2.643 | 1.322 | 0.441 | 0.441 |
| 22:00 | - | 0.392 | - | 0.392 | 13.725 | 7.843 | 0.392 | 5.098 | 1.569 | 0.784 | - | 0.392 |
| 23:00 | - | - | - | 0.442 | 8.850 | 7.080 | - | 5.310 | 3.097 | 0.442 | - | 0.442 |
| Mean | - | 1.458 | 0.262 | 0.501 | 10.684 | 5.830 | 0.577 | 4.959 | 6.683 | 1.451 | 0.341 | 0.270 |




In February

Land breeze is dominated from 00:00 up to 9:00; 16:00 up to 23:00; UTC time

Sea breeze is from 07:00 up to 16:00. UTC time

Horizontal wind share may occurs in the period

07:00 up to 09:00; 15:00 up to 16:00;

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

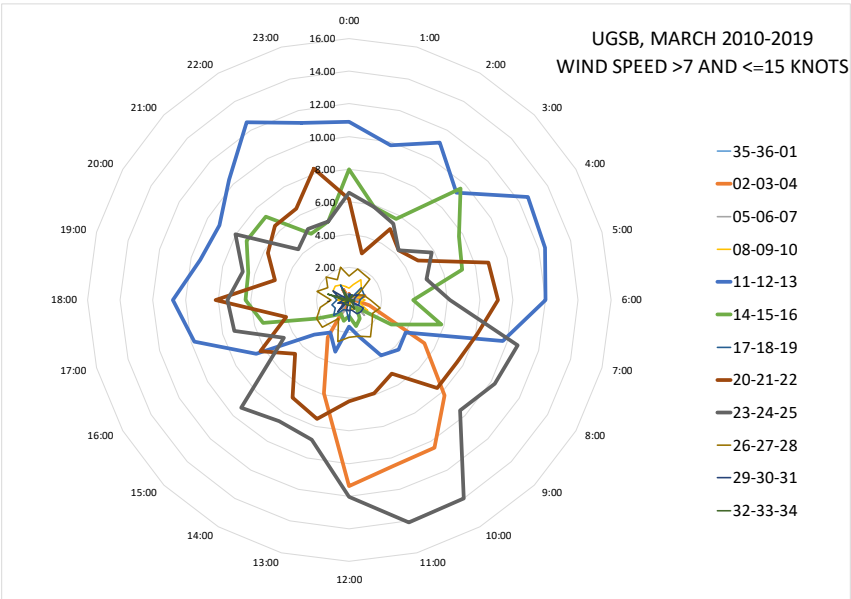
AERODROME: UGSB MONTH: MARCH PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | 0.364 | - | 0.727 | 10.909 | 8.000 | 0.364 | 6.182 | 6.545 | 1.455 | 0.364 | - |
| 1:00 | - | - | 0.327 | 0.980 | 9.804 | 5.882 | 0.327 | 2.941 | 5.882 | 1.961 | 0.327 | - |
| 2:00 | - | - | - | 1.434 | 11.111 | 5.735 | - | 5.018 | 5.376 | 1.792 | 0.358 | 0.358 |
| 3:00 | - | - | - | 1.071 | 9.286 | 9.643 | 1.071 | 4.286 | 4.286 | 1.786 | 0.357 | - |
| 4:00 | - | 0.324 | - | 0.324 | 12.621 | 7.767 | 0.971 | 4.854 | 5.825 | 0.647 | 0.647 | - |
| 5:00 | - | 0.977 | 0.326 | 0.651 | 12.378 | 7.166 | 0.977 | 8.795 | 4.886 | 0.977 | 0.326 | - |
| 6:00 | - | 0.325 | 0.649 | 0.974 | 12.013 | 3.896 | 0.649 | 9.091 | 6.169 | 1.299 | 0.325 | 0.325 |
| 7:00 | - | 1.294 | - | 0.647 | 9.709 | 5.825 | 0.647 | 8.091 | 10.680 | 1.942 | - | 0.324 |
| 8:00 | - | 5.298 | 0.331 | 1.325 | 3.974 | 2.980 | 0.662 | 7.616 | 10.265 | 1.656 | 0.993 | - |
| 9:00 | - | 8.251 | 1.320 | 0.660 | 4.290 | 0.660 | 0.330 | 7.591 | 9.571 | 1.980 | 0.990 | 0.330 |
| 10:00 | - | 10.423 | - | 0.651 | 3.909 | 1.303 | 0.651 | 5.212 | 14.007 | 2.606 | 0.977 | 0.651 |
| 11:00 | - | 10.492 | 0.328 | 0.656 | 2.295 | 1.639 | 0.328 | 5.902 | 14.098 | 2.295 | 0.656 | 0.328 |
| 12:00 | - | 11.401 | 0.651 | - | 1.629 | 0.977 | 1.303 | 6.189 | 12.052 | 2.280 | 0.651 | 0.326 |
| 13:00 | - | 5.902 | 0.656 | 0.328 | 3.279 | 1.311 | 0.656 | 7.541 | 8.852 | 2.623 | 0.656 | 0.328 |
| 14:00 | - | 2.632 | 0.987 | - | 2.303 | 0.987 | 0.658 | 6.908 | 8.553 | 1.316 | - | 0.329 |
| 15:00 | - | - | 0.333 | 0.333 | 3.000 | 1.333 | 1.333 | 4.667 | 9.333 | 2.333 | 1.000 | 0.333 |
| 16:00 | - | 0.658 | 0.329 | - | 6.579 | 2.303 | 0.987 | 6.250 | 4.605 | 2.303 | 0.329 | 0.329 |
| 17:00 | - | - | - | 0.364 | 9.818 | 5.455 | 1.091 | 4.000 | 7.273 | 1.818 | 0.727 | - |
| 18:00 | - | 0.372 | 0.372 | 0.743 | 10.781 | 6.320 | 0.743 | 8.178 | 7.435 | 1.115 | 0.372 | 0.372 |
| 19:00 | - | - | - | 0.337 | 9.428 | 6.397 | 1.010 | 4.714 | 6.734 | 2.020 | 0.673 | 1.347 |
| 20:00 | - | - | - | 1.145 | 9.160 | 7.252 | 0.382 | 5.725 | 8.015 | 1.527 | 1.145 | - |
| 21:00 | - | - | - | 1.200 | 10.400 | 7.200 | 0.400 | 6.400 | 4.400 | 2.000 | - | 0.400 |
| 22:00 | - | 0.717 | - | 1.075 | 12.545 | 4.659 | 1.075 | 6.452 | 5.018 | 1.434 | - | 0.717 |
| 23:00 | - | - | 0.415 | 0.830 | 11.203 | 4.979 | - | 8.299 | 4.979 | 2.075 | - | - |
| Mean | - | 2.476 | 0.293 | 0.686 | 8.018 | 4.570 | 0.692 | 6.287 | 7.702 | 1.802 | 0.495 | 0.283 |




In March
Land breeze is dominated from UTC time

00:00 up to 07:00;
16:00 up to 23:00;

Sea breeze is from UTC time

05:00 up to 16:00.

Horizontal wind share may occurs in the period

07:00 up to 09:00;
15:00 up to 17:00;

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

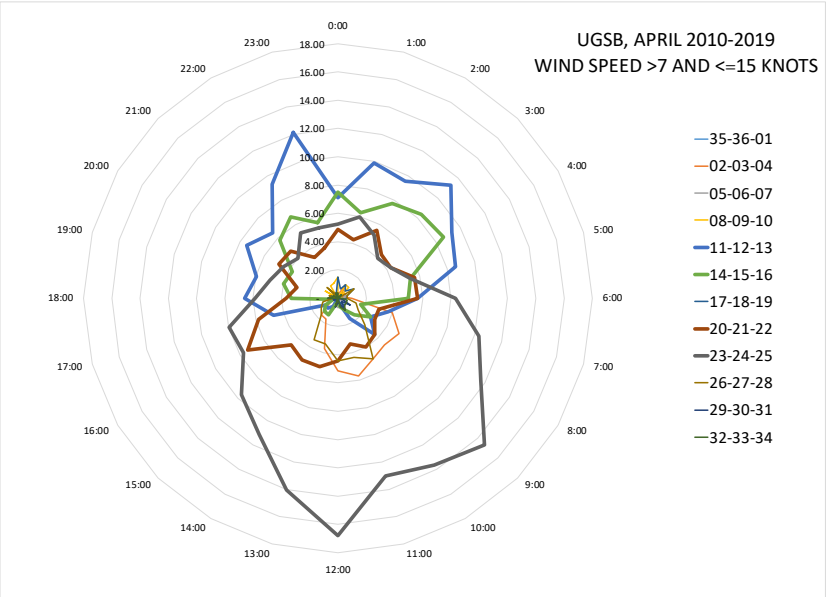
AERODROME: UGSB MONTH: APRIL PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | 0.375 | - | 1.498 | 7.116 | 7.491 | 1.498 | 4.869 | 5.243 | 0.375 | - | 0.375 |
| 1:00 | - | 0.330 | 0.330 | - | 9.901 | 6.271 | 0.660 | 4.290 | 5.941 | - | - | - |
| 2:00 | - | 1.103 | 0.368 | 1.103 | 9.559 | 7.721 | 1.103 | 5.515 | 5.147 | - | - | - |
| 3:00 | - | 0.364 | - | 1.091 | 11.273 | 8.364 | 0.727 | 4.364 | 4.000 | - | - | 0.364 |
| 4:00 | - | 0.664 | 0.332 | - | 9.302 | 8.638 | 1.329 | 4.319 | 4.319 | 1.329 | - | - |
| 5:00 | - | 0.331 | 0.662 | - | 8.609 | 5.298 | 0.662 | 5.629 | 5.298 | 0.662 | - | - |
| 6:00 | - | 0.997 | 0.332 | 0.332 | 5.648 | 4.983 | 0.664 | 5.648 | 8.306 | 0.664 | - | 0.332 |
| 7:00 | - | 4.000 | - | 0.333 | 3.667 | 1.667 | 0.333 | 3.000 | 10.333 | 1.333 | 0.333 | 0.667 |
| 8:00 | - | 5.000 | 0.333 | - | 2.667 | 2.667 | 0.667 | 3.000 | 11.667 | 1.667 | 1.000 | 0.667 |
| 9:00 | - | 4.667 | - | - | 3.667 | 1.667 | 0.667 | 3.667 | 14.667 | 2.667 | 0.333 | 0.667 |
| 10:00 | - | 4.983 | - | - | 1.661 | 0.997 | 0.332 | 3.987 | 13.621 | 4.983 | 0.997 | 0.997 |
| 11:00 | - | 5.686 | 0.669 | - | 0.334 | 0.669 | 0.669 | 3.344 | 13.043 | 4.348 | 0.334 | 0.669 |
| 12:00 | - | 5.137 | 0.685 | 0.342 | 0.342 | 0.342 | - | 4.452 | 16.781 | 4.452 | 0.342 | - |
| 13:00 | - | 3.679 | 0.334 | - | - | 0.334 | 0.669 | 5.017 | 14.047 | 3.344 | 0.669 | 0.669 |
| 14:00 | - | 1.689 | 1.014 | - | 0.676 | 1.351 | - | 5.068 | 11.149 | 3.378 | - | - |
| 15:00 | - | 1.667 | 0.333 | 0.333 | 1.000 | 1.333 | 0.333 | 4.667 | 9.667 | 1.667 | - | - |
| 16:00 | - | 0.669 | - | - | 1.003 | 1.003 | - | 7.358 | 7.692 | 1.338 | 0.334 | - |
| 17:00 | - | 0.725 | - | 0.725 | 4.710 | 0.362 | - | 5.797 | 7.971 | 1.087 | 0.362 | - |
| 18:00 | - | 0.366 | - | - | 6.593 | 3.297 | - | 3.663 | 5.861 | 0.366 | - | 0.733 |
| 19:00 | - | - | - | - | 5.980 | 3.987 | 0.664 | 2.990 | 4.983 | 0.664 | - | 0.332 |
| 20:00 | - | - | 0.372 | 1.115 | 7.435 | 3.717 | - | 4.833 | 4.461 | - | - | 0.372 |
| 21:00 | - | - | - | - | 6.522 | 5.797 | 0.362 | 4.710 | 3.986 | 1.087 | - | - |
| 22:00 | - | 0.332 | 0.332 | 0.997 | 9.302 | 6.645 | 0.332 | 3.322 | 5.316 | 0.332 | - | 0.332 |
| 23:00 | - | 0.368 | - | 1.103 | 12.132 | 5.515 | 0.368 | 3.676 | 5.147 | 0.368 | 0.368 | 0.368 |
| Mean | - | 1.797 | 0.254 | 0.374 | 5.379 | 3.755 | 0.502 | 4.466 | 8.277 | 1.505 | 0.211 | 0.314 |




In April

Land breeze is dominated from 00:00 up to 06:00; 18:00 up to 23:00; UTC time

Sea breeze is from 06:00 up to 18:00; UTC time

Horizontal wind share may occurs in the period

05:00 up to 06:00; 18:00 up to 19:00;

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

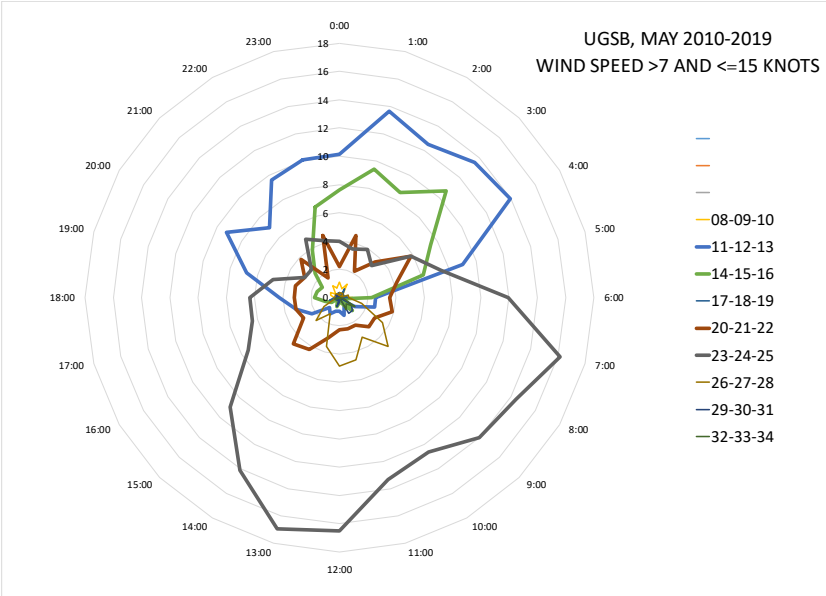
AERODROME: UGSB MONTH: MAY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | 0.362 | - | 1.087 | 10.145 | 7.609 | 0.362 | 2.174 | 3.986 | 0.362 | - | - |
| 1:00 | - | 0.325 | - | 0.649 | 13.636 | 9.416 | - | 4.545 | 3.571 | 0.325 | - | - |
| 2:00 | - | - | - | 1.071 | 12.500 | 8.571 | 0.714 | 2.143 | 3.929 | 0.357 | - | - |
| 3:00 | - | - | - | 0.356 | 13.523 | 10.676 | 0.356 | 3.559 | 3.203 | 0.356 | - | - |
| 4:00 | - | - | - | 0.325 | 13.961 | 7.468 | 0.325 | 5.844 | 5.844 | - | - | - |
| 5:00 | - | 0.323 | 0.323 | - | 9.032 | 6.129 | 0.323 | 4.194 | 7.419 | 0.645 | - | - |
| 6:00 | - | 0.645 | 0.323 | 0.968 | 2.581 | 2.258 | 0.645 | 3.548 | 11.935 | 0.645 | - | - |
| 7:00 | - | 1.942 | - | - | 2.589 | 0.324 | - | 3.883 | 16.181 | 1.618 | - | 0.324 |
| 8:00 | - | 2.244 | - | - | 1.282 | 0.321 | - | 2.885 | 14.423 | 3.526 | 0.962 | 1.282 |
| 9:00 | - | 2.606 | - | - | 0.326 | 1.303 | - | 2.932 | 14.007 | 4.886 | 1.303 | 0.651 |
| 10:00 | - | 1.942 | - | - | 0.647 | 0.647 | - | 2.265 | 12.621 | 3.236 | 1.294 | 0.971 |
| 11:00 | - | 2.597 | 0.649 | - | 1.299 | 0.325 | - | 2.273 | 13.312 | 4.545 | - | - |
| 12:00 | - | 1.942 | 0.324 | 0.324 | 0.971 | 0.324 | - | 2.265 | 16.505 | 4.854 | 0.324 | - |
| 13:00 | - | 2.280 | 0.326 | - | 0.977 | 0.651 | - | 2.932 | 16.938 | 3.583 | 0.651 | - |
| 14:00 | - | 0.656 | 0.328 | - | 1.311 | 0.328 | - | 4.262 | 14.098 | 1.311 | - | - |
| 15:00 | - | 2.318 | - | - | 0.993 | - | 0.331 | 4.636 | 10.927 | 2.318 | 0.331 | - |
| 16:00 | - | 0.647 | 0.324 | 0.647 | 2.265 | 0.647 | - | 2.913 | 7.443 | 1.294 | - | 0.324 |
| 17:00 | - | - | - | 0.353 | 3.180 | 1.060 | 0.707 | 3.180 | 6.360 | 0.353 | 0.353 | 0.353 |
| 18:00 | - | 0.353 | 0.353 | 0.353 | 4.240 | 1.767 | 0.353 | 3.180 | 6.360 | 0.353 | - | - |
| 19:00 | - | 0.324 | 0.971 | 0.647 | 6.796 | 1.618 | - | 3.236 | 4.854 | 0.324 | - | - |
| 20:00 | - | - | - | 0.709 | 9.220 | 1.418 | - | 2.837 | 2.837 | 0.355 | 0.355 | - |
| 21:00 | - | - | 0.350 | 0.350 | 6.993 | 2.448 | 0.350 | 3.846 | 2.797 | 0.350 | - | - |
| 22:00 | - | - | - | 0.958 | 9.585 | 3.834 | - | 1.597 | 4.792 | 0.319 | - | - |
| 23:00 | - | 0.348 | 0.348 | 0.697 | 10.105 | 6.620 | 0.348 | 4.530 | 4.181 | - | - | - |
| Mean | - | 0.911 | 0.192 | 0.396 | 5.757 | 3.157 | 0.201 | 3.319 | 8.689 | 1.497 | 0.232 | 0.163 |




In May

Land breeze is dominated from 00:00 up to 05:00; 19:00 up to 23:00; UTC time

Sea breeze is from 04:00 up to 18:00. UTC time

Horizontal wind share may occurs in the period

04:00 up to 05:00; 18:00 up to 19:00;

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

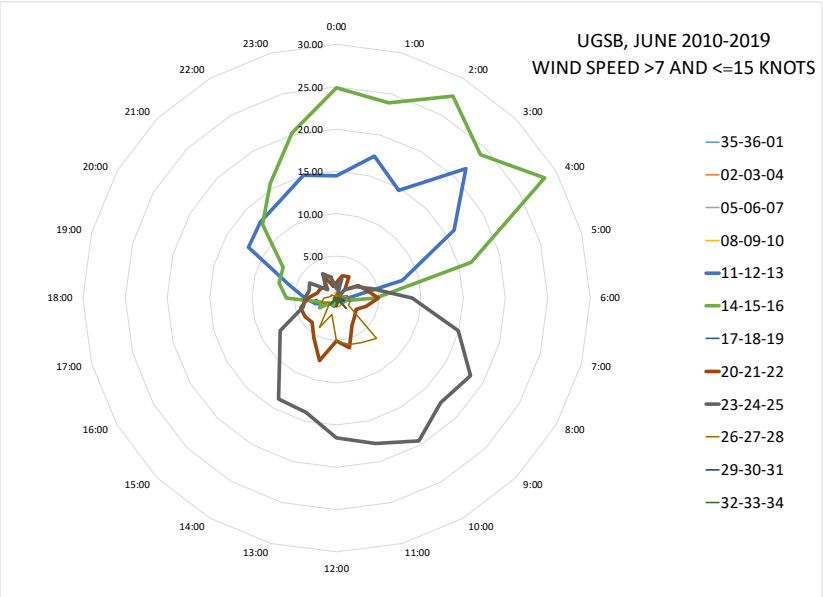
AERODROME: UGSB MONTH: JUNE PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | - | - | - | 14.498 | 24.907 | - | 1.859 | 1.115 | 0.372 | - | - |
| 1:00 | - | - | - | 0.341 | 17.406 | 23.891 | 0.341 | 2.730 | 2.389 | - | - | - |
| 2:00 | - | - | - | 0.735 | 14.706 | 27.574 | - | 2.941 | - | - | - | - |
| 3:00 | - | - | - | - | 21.649 | 24.055 | 1.375 | 1.375 | 1.375 | 0.687 | - | - |
| 4:00 | - | - | - | - | 16.054 | 28.428 | 0.669 | 3.010 | 2.676 | 0.334 | - | - |
| 5:00 | - | - | - | - | 8.081 | 16.498 | 0.673 | 3.704 | 4.377 | 1.347 | - | - |
| 6:00 | - | 0.997 | - | - | 1.329 | 4.651 | 0.332 | 4.983 | 8.970 | 1.329 | 0.332 | - |
| 7:00 | - | 0.662 | 0.331 | - | 0.662 | 0.993 | - | 3.642 | 14.901 | 1.656 | 0.993 | 0.662 |
| 8:00 | - | 0.333 | - | 0.333 | 0.333 | 1.000 | - | 2.667 | 18.333 | 1.667 | 0.667 | 0.333 |
| 9:00 | - | 0.671 | - | - | - | 0.671 | 0.336 | 3.020 | 17.450 | 6.711 | 0.336 | 1.678 |
| 10:00 | - | 1.007 | - | - | - | - | 0.336 | 3.691 | 19.463 | 6.040 | 0.336 | 0.336 |
| 11:00 | - | 1.007 | - | - | 0.336 | - | - | 6.040 | 17.785 | 5.705 | - | 0.671 |
| 12:00 | - | 1.010 | - | - | - | - | - | 5.051 | 16.498 | 5.051 | 0.337 | 1.010 |
| 13:00 | - | - | - | - | 1.000 | 0.333 | 0.333 | 7.667 | 14.000 | 2.000 | - | - |
| 14:00 | - | 0.671 | - | - | 0.671 | 1.007 | - | 5.369 | 13.758 | 4.027 | 0.336 | 0.336 |
| 15:00 | - | - | - | - | 1.020 | 0.680 | - | 4.082 | 9.524 | 1.361 | - | 1.020 |
| 16:00 | - | 0.333 | - | - | 1.333 | 2.333 | 0.333 | 4.333 | 7.667 | 1.000 | 0.333 | 0.333 |
| 17:00 | - | - | - | - | 2.564 | 1.832 | - | 4.396 | 4.029 | 1.832 | - | 0.366 |
| 18:00 | - | 0.370 | - | - | 3.704 | 5.926 | - | 3.333 | 3.704 | 1.481 | - | 0.370 |
| 19:00 | - | - | 0.334 | 0.334 | 5.686 | 7.023 | - | 2.341 | 3.344 | 0.669 | - | - |
| 20:00 | - | - | - | 0.365 | 12.044 | 7.299 | 0.365 | 2.190 | 3.650 | 0.730 | - | - |
| 21:00 | - | - | 0.364 | 0.364 | 12.727 | 12.364 | - | 1.818 | 1.455 | 0.364 | - | - |
| 22:00 | - | - | - | - | 13.333 | 15.667 | - | 3.000 | 3.333 | 0.333 | - | - |
| 23:00 | - | - | - | 0.735 | 15.074 | 20.221 | 0.368 | 1.471 | 2.574 | - | - | - |
| Mean | - | 0.294 | 0.043 | 0.134 | 6.842 | 9.473 | 0.228 | 3.530 | 8.015 | 1.862 | 0.153 | 0.297 |




In June
Land breeze is dominated from
00:00 up to 05:00;
18:00 up to 23:00;
UTC time

Sea breeze is from
06:00 up to 17:00;
UTC time

Horizontal wind share may occurs in the period

05:00 up to 06:00;
18:00 up to 19:00;

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

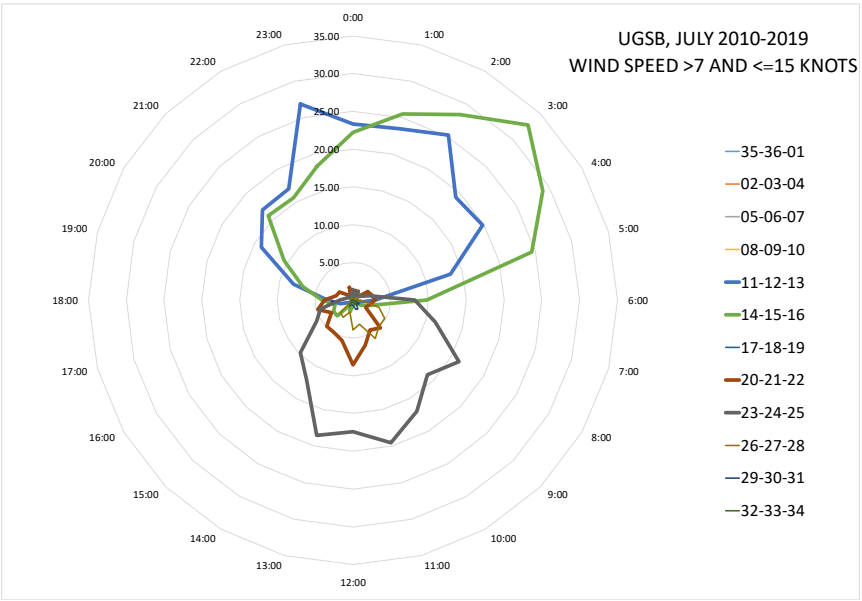
AERODROME: UGSB MONTH: JULY PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | - | 0.358 | - | 23.297 | 22.222 | 0.717 | 0.358 | 1.434 | - | - | - |
| 1:00 | - | - | - | - | 23.529 | 25.490 | - | 1.307 | 0.327 | - | - | - |
| 2:00 | - | - | - | - | 25.260 | 28.374 | 0.346 | 0.692 | 1.384 | - | - | - |
| 3:00 | - | - | 0.338 | - | 19.257 | 32.770 | 0.676 | 0.338 | 0.676 | - | - | - |
| 4:00 | - | - | - | 0.326 | 19.870 | 28.990 | 0.326 | 2.280 | 0.977 | 0.651 | - | - |
| 5:00 | - | - | - | - | 13.399 | 24.510 | - | 2.614 | 2.288 | - | - | - |
| 6:00 | - | 0.651 | - | - | 2.932 | 9.772 | 0.651 | 2.932 | 8.143 | 0.977 | - | - |
| 7:00 | - | 0.322 | - | - | 0.965 | 2.572 | 0.322 | 2.251 | 11.254 | 3.537 | 0.322 | 0.643 |
| 8:00 | - | 1.299 | - | - | - | 1.299 | - | 1.948 | 16.234 | 4.870 | 0.974 | 0.325 |
| 9:00 | - | - | - | - | - | 0.649 | - | 5.195 | 13.961 | 4.870 | 0.649 | 0.325 |
| 10:00 | - | - | - | - | 0.326 | - | - | 4.560 | 16.938 | 5.863 | 1.303 | 0.651 |
| 11:00 | - | - | - | - | - | 0.651 | 0.326 | 6.189 | 19.544 | 3.257 | 1.303 | 0.326 |
| 12:00 | - | - | - | - | - | 0.656 | 0.328 | 8.525 | 17.377 | 3.934 | 0.656 | - |
| 13:00 | - | - | - | - | 0.325 | 1.623 | - | 5.519 | 18.506 | 1.623 | 0.649 | - |
| 14:00 | - | - | - | - | - | 0.658 | 0.329 | 4.934 | 12.171 | 2.632 | 0.329 | 0.987 |
| 15:00 | - | - | - | - | 0.328 | 2.951 | - | 4.918 | 9.836 | 2.295 | - | 0.328 |
| 16:00 | - | - | - | - | 0.656 | 2.951 | - | 3.279 | 5.574 | 0.328 | - | - |
| 17:00 | - | - | - | - | 1.718 | 2.405 | 0.344 | 4.811 | 4.467 | 0.344 | 0.344 | - |
| 18:00 | - | - | - | - | 3.413 | 4.096 | - | 3.754 | 1.706 | 0.341 | - | - |
| 19:00 | - | - | - | - | 8.170 | 6.863 | - | 2.288 | 0.980 | - | - | - |
| 20:00 | - | - | - | - | 13.986 | 10.490 | - | 2.098 | 0.699 | - | - | - |
| 21:00 | - | - | - | - | 16.901 | 15.845 | 0.704 | 1.056 | 0.352 | - | - | - |
| 22:00 | - | - | 0.333 | 0.667 | 17.000 | 15.667 | 0.333 | 0.667 | 0.667 | 0.333 | - | - |
| 23:00 | - | - | - | - | 26.855 | 18.375 | - | 1.767 | 0.707 | - | - | - |
| Mean | - | 0.095 | 0.043 | 0.041 | 9.091 | 10.828 | 0.225 | 3.095 | 6.925 | 1.494 | 0.272 | 0.149 |




In July

Land breeze is dominated from 00:00 up to 06:00; 19:00 up to 23:00; UTC time

Sea breeze is from 06:00 up to 17:00. UTC time

Horizontal wind share may occurs in the period

06:00 up to 07:00; 17:00 up to 18:00;

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

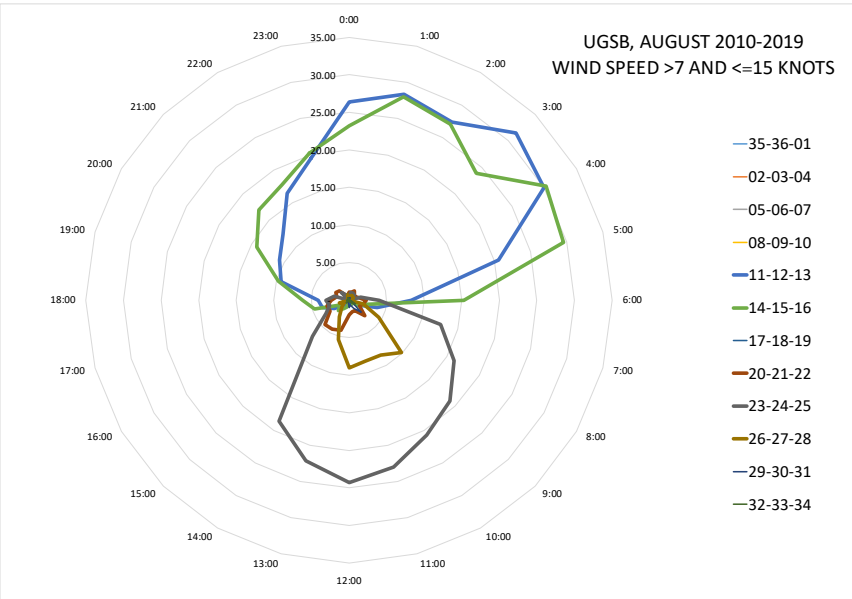
AERODROME: UGSB MONTH: AUGUST PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | - | 0.352 | 0.352 | 26.408 | 23.239 | 0.352 | 1.056 | 0.704 | - | - | - |
| 1:00 | - | - | - | - | 28.378 | 28.041 | 0.338 | 1.014 | 1.014 | - | 0.338 | - |
| 2:00 | - | - | - | 0.351 | 27.368 | 27.018 | 0.351 | 1.404 | 1.053 | 0.702 | - | - |
| 3:00 | - | - | - | 0.328 | 31.475 | 23.934 | - | 0.984 | 0.984 | - | - | - |
| 4:00 | - | - | 0.326 | 0.326 | 29.967 | 30.293 | 0.326 | 0.977 | - | 0.651 | - | - |
| 5:00 | - | - | 0.322 | 1.286 | 20.579 | 29.582 | - | 1.286 | 1.608 | 0.322 | - | - |
| 6:00 | - | - | - | - | 8.306 | 15.282 | - | 2.326 | 3.987 | - | - | - |
| 7:00 | - | 0.324 | - | - | 3.883 | 2.265 | 0.324 | 1.942 | 12.621 | 1.942 | - | 0.324 |
| 8:00 | - | 0.647 | - | - | 1.294 | 1.618 | - | 1.618 | 16.181 | 4.531 | 0.324 | 0.971 |
| 9:00 | - | - | - | - | 0.328 | 0.328 | - | 2.951 | 19.016 | 9.836 | 2.295 | 0.656 |
| 10:00 | - | - | - | - | 0.647 | 0.647 | 0.324 | 1.618 | 20.712 | 8.414 | 1.294 | 0.324 |
| 11:00 | - | - | - | 0.324 | 0.324 | 0.324 | 0.647 | 1.618 | 22.977 | 8.414 | 0.647 | 0.324 |
| 12:00 | - | - | - | 0.324 | 0.647 | - | - | 1.942 | 24.272 | 9.061 | 0.971 | - |
| 13:00 | - | - | - | - | 0.643 | 0.965 | - | 4.180 | 22.186 | 5.466 | 0.322 | - |
| 14:00 | - | - | - | - | 0.962 | 1.282 | 0.321 | 4.487 | 18.590 | 2.564 | 0.321 | - |
| 15:00 | - | - | - | - | 0.977 | 1.954 | - | 4.560 | 6.840 | 1.303 | - | 0.651 |
| 16:00 | - | - | - | - | 2.273 | 1.299 | 0.325 | 2.922 | 3.571 | 0.649 | - | - |
| 17:00 | - | - | 0.337 | - | 3.704 | 4.714 | 0.337 | 3.030 | 2.694 | 1.347 | - | - |
| 18:00 | - | - | - | 0.344 | 4.124 | 6.186 | 0.687 | 2.405 | 3.093 | - | - | 0.344 |
| 19:00 | - | - | - | 0.334 | 9.365 | 9.699 | 1.003 | 1.672 | 2.007 | 0.334 | - | - |
| 20:00 | - | - | - | 0.345 | 10.690 | 14.138 | 0.690 | 2.069 | - | - | - | - |
| 21:00 | - | - | - | 0.353 | 12.367 | 16.961 | 0.353 | 1.767 | 1.413 | - | 0.353 | - |
| 22:00 | - | - | - | 0.336 | 16.443 | 17.785 | 0.671 | 0.671 | 0.671 | 0.336 | - | - |
| 23:00 | - | - | - | 0.356 | 19.573 | 20.285 | 0.356 | 0.712 | 0.712 | 0.712 | - | 0.356 |
| Mean | - | 0.040 | 0.056 | 0.223 | 10.864 | 11.577 | 0.308 | 2.050 | 7.788 | 2.358 | 0.286 | 0.165 |




In August

Land breeze is dominated from 00:00 up to 06:00; 18:00 up to 23:00; UTC time

Sea breeze is from 07:00 up to 15:00. UTC time

Horizontal wind share may occurs in the period

06:00 up to 07:00; 16:00 up to 18:00;

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

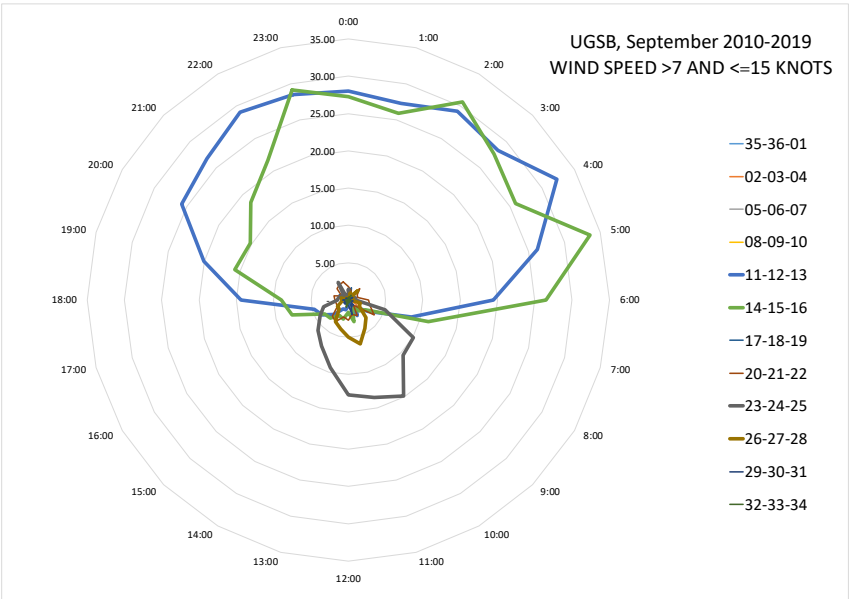
AERODROME: UGSB MONTH: SEPTEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | - | - | 0.364 | 28.000 | 27.273 | 0.727 | 1.818 | 1.455 | - | 0.364 | 0.364 |
| 1:00 | - | - | - | 0.337 | 27.273 | 25.926 | 1.684 | 1.347 | 0.673 | 1.010 | 0.337 | - |
| 2:00 | - | - | - | 0.730 | 29.197 | 30.657 | 0.730 | 0.730 | 0.365 | 0.365 | 0.365 | 0.730 |
| 3:00 | - | 0.355 | - | - | 28.369 | 27.660 | - | 2.128 | 0.709 | 1.773 | - | - |
| 4:00 | - | 0.337 | - | 1.010 | 32.323 | 25.926 | 1.010 | 1.347 | 0.673 | - | 0.673 | - |
| 5:00 | - | - | - | 0.664 | 26.246 | 33.555 | 0.664 | 1.329 | 0.997 | 0.664 | - | - |
| 6:00 | - | - | - | 0.336 | 19.463 | 26.510 | 0.671 | 2.685 | 1.007 | 0.336 | - | - |
| 7:00 | - | 0.338 | - | 0.676 | 8.784 | 11.149 | 0.676 | 3.041 | 5.068 | 1.689 | 0.676 | 0.338 |
| 8:00 | - | 1.342 | - | - | 3.020 | 2.685 | 0.336 | 4.027 | 10.067 | 1.678 | 0.336 | 0.336 |
| 9:00 | - | 1.347 | - | - | 1.347 | 2.020 | - | 1.010 | 10.438 | 3.367 | 1.010 | 0.337 |
| 10:00 | - | 2.365 | 0.338 | 0.338 | 2.365 | 1.014 | 1.014 | 2.365 | 14.865 | 4.392 | 0.676 | 0.338 |
| 11:00 | - | 1.351 | - | 0.338 | - | 3.041 | 0.338 | 2.027 | 13.514 | 6.081 | 2.027 | - |
| 12:00 | - | 1.003 | - | - | 0.669 | 1.672 | 0.334 | 2.676 | 12.709 | 5.017 | 0.669 | 0.334 |
| 13:00 | - | 1.342 | - | - | 1.342 | 2.685 | - | 2.349 | 9.396 | 4.027 | 0.671 | 1.007 |
| 14:00 | - | 0.339 | - | - | 1.356 | 2.373 | 0.678 | 3.390 | 7.119 | 3.390 | 0.339 | 0.339 |
| 15:00 | - | - | - | - | 2.712 | 3.390 | 0.678 | 3.051 | 5.763 | 1.695 | 0.678 | 0.339 |
| 16:00 | - | - | - | - | 4.027 | 3.691 | - | 1.678 | 4.362 | 1.678 | 0.671 | 0.336 |
| 17:00 | - | - | - | - | 4.746 | 7.797 | 0.339 | 1.695 | 3.390 | 1.017 | 0.339 | - |
| 18:00 | - | - | - | - | 14.388 | 8.993 | 0.719 | 1.799 | 1.439 | 0.719 | 0.719 | 0.360 |
| 19:00 | - | 0.334 | 0.334 | - | 20.067 | 15.719 | - | 2.007 | 1.338 | 1.003 | - | - |
| 20:00 | - | - | 0.353 | 0.707 | 25.795 | 15.194 | 1.413 | 1.060 | 1.060 | - | 0.353 | - |
| 21:00 | - | - | 0.362 | 0.362 | 26.812 | 18.478 | 0.362 | 2.174 | 0.725 | 0.362 | 0.362 | - |
| 22:00 | - | - | - | 0.338 | 29.054 | 21.622 | 0.676 | 2.365 | 2.703 | 0.338 | - | - |
| 23:00 | - | - | 0.356 | 0.356 | 28.470 | 29.181 | 0.712 | 2.491 | - | - | - | - |
| Mean | - | 0.436 | 0.073 | 0.115 | 15.243 | 14.509 | 0.573 | 2.108 | 4.576 | 1.692 | 0.469 | 0.215 |




In September

Land breeze is dominated from 00:00 up to 07:00; 17:00 up to 23:00; UTC time

Sea breeze is from 08:00 up to 15:00. UTC time

Horizontal wind share may occurs in the period

07:00 up to 08:00; 15:00 up to 17:00;

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

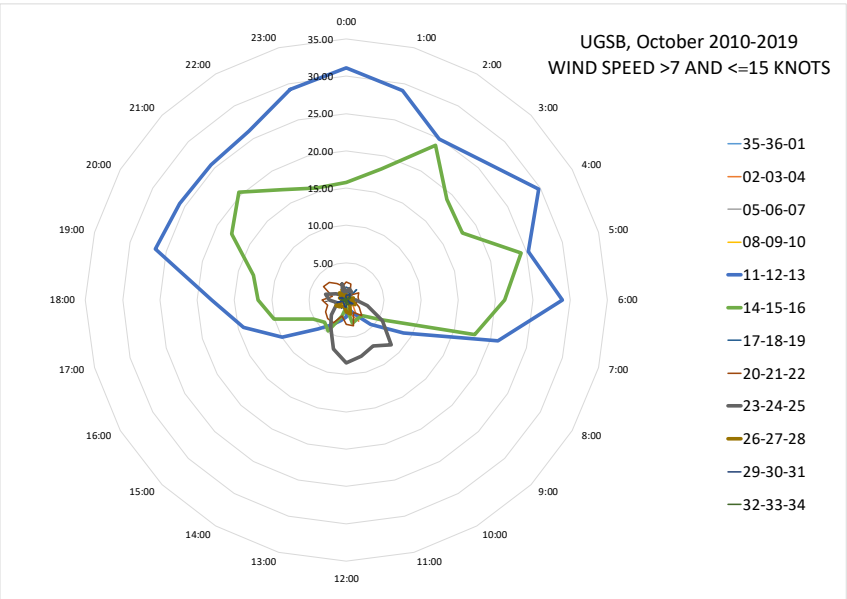
AERODROME: UGSB MONTH: OCTOBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | - | - | 0.342 | 31.164 | 15.753 | 1.712 | 2.397 | 1.027 | 0.685 | 0.685 | - |
| 1:00 | - | - | - | 0.639 | 29.073 | 18.211 | 1.597 | 2.236 | 1.597 | 0.319 | 0.639 | - |
| 2:00 | - | - | 0.324 | 0.647 | 24.919 | 23.948 | - | 0.971 | 1.294 | 0.647 | 0.971 | - |
| 3:00 | - | - | - | 0.324 | 26.214 | 19.094 | 1.942 | 0.971 | 0.324 | 0.324 | 0.647 | - |
| 4:00 | - | - | - | 0.641 | 29.808 | 17.949 | 0.321 | 1.923 | 0.321 | 0.321 | - | 0.641 |
| 5:00 | - | - | 0.319 | 0.319 | 25.240 | 24.281 | 0.639 | 1.597 | 0.639 | 0.958 | 0.319 | - |
| 6:00 | - | - | - | - | 28.939 | 21.222 | 0.965 | 1.608 | 1.286 | 0.643 | 0.322 | - |
| 7:00 | - | 0.324 | 0.647 | 0.324 | 21.036 | 17.799 | 0.971 | 1.294 | 2.913 | 0.971 | - | - |
| 8:00 | - | 0.658 | 0.329 | 1.316 | 8.882 | 5.263 | 0.329 | 1.974 | 5.592 | 1.316 | 0.987 | - |
| 9:00 | - | 1.307 | 0.327 | 0.654 | 4.575 | 2.941 | 0.980 | 2.941 | 8.497 | 0.327 | 0.654 | - |
| 10:00 | - | 3.247 | - | 0.649 | 2.273 | 2.922 | 0.325 | 1.948 | 7.143 | 0.974 | 0.325 | 0.649 |
| 11:00 | - | 1.948 | - | 0.649 | 1.299 | 3.247 | 0.649 | 3.571 | 7.792 | 1.948 | - | 0.649 |
| 12:00 | - | 2.273 | - | 0.325 | 2.273 | 0.974 | - | 3.247 | 8.442 | 1.623 | 0.974 | 0.649 |
| 13:00 | - | 0.645 | - | 0.645 | 2.903 | 2.258 | 0.323 | 2.258 | 6.774 | 0.968 | 0.968 | - |
| 14:00 | - | 0.322 | - | - | 3.859 | 4.823 | 1.286 | 3.537 | 4.180 | 0.965 | 0.643 | - |
| 15:00 | - | - | - | 0.962 | 5.449 | 4.167 | 0.962 | 3.526 | 2.885 | 1.282 | 0.641 | 0.321 |
| 16:00 | - | - | - | - | 9.904 | 5.112 | 0.958 | 3.195 | 1.597 | 1.597 | 0.319 | 0.319 |
| 17:00 | - | - | - | 1.618 | 14.239 | 10.032 | 0.971 | 2.589 | 1.294 | 0.324 | 1.294 | 0.324 |
| 18:00 | - | - | - | - | 18.092 | 11.842 | 0.658 | 3.289 | 2.303 | 0.329 | 0.329 | 0.658 |
| 19:00 | - | - | - | 0.647 | 26.537 | 12.945 | 0.971 | 1.942 | 2.913 | 0.971 | 0.971 | 0.324 |
| 20:00 | - | - | 0.323 | 0.323 | 25.806 | 17.742 | 0.968 | 3.548 | 1.613 | 0.645 | 0.645 | - |
| 21:00 | - | - | 0.329 | 0.987 | 25.658 | 20.395 | 0.658 | 3.289 | 0.987 | 1.316 | - | 0.329 |
| 22:00 | - | - | - | 1.613 | 26.129 | 17.097 | 0.323 | 2.581 | 0.968 | 0.645 | - | 0.323 |
| 23:00 | - | - | - | 0.635 | 29.206 | 15.556 | 1.270 | 1.905 | 2.222 | 0.635 | 0.317 | - |
| Mean | - | 0.447 | 0.108 | 0.115 | 17.645 | 12.316 | 0.824 | 2.431 | 3.108 | 0.864 | 0.527 | 0.216 |




In October

Land breeze is dominated from 00:00 up to 08::00; 16:00 up to 23:00; UTC time

Sea breeze is from 09:00 up to 13:00; UTC time

Horizontal wind share may occurs in the period

08:00 up to 09:00; 14:00 up to 15:00;

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

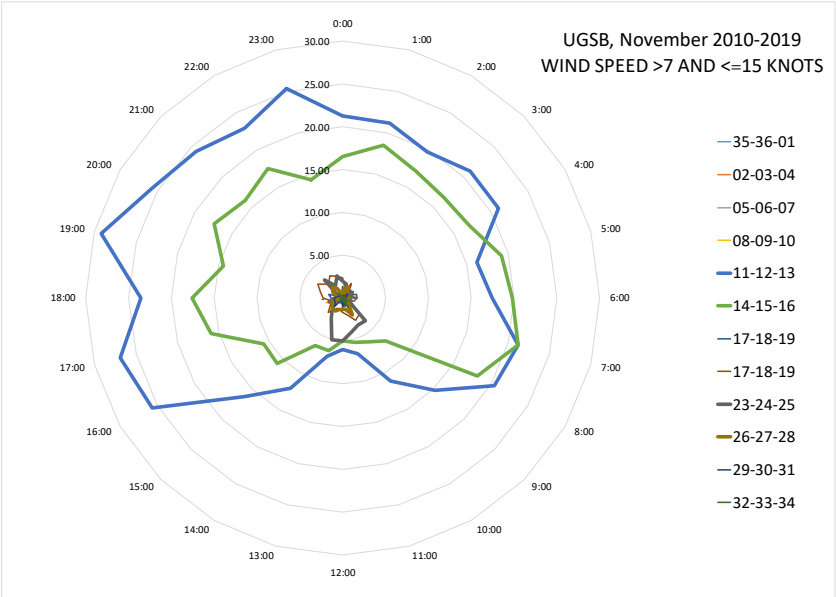
AERODROME: UGSB MONTH: NOVEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | - | 0.338 | 0.676 | 21.284 | 16.554 | 1.351 | 2.365 | 2.027 | 0.676 | - | - |
| 1:00 | - | - | - | 1.007 | 21.141 | 18.456 | - | 1.007 | 1.678 | 1.342 | 0.336 | - |
| 2:00 | - | - | - | - | 19.737 | 17.105 | 0.987 | 1.974 | 0.329 | 1.316 | - | - |
| 3:00 | - | - | - | 0.333 | 21.000 | 16.667 | 1.333 | 1.000 | 0.333 | 0.333 | 0.667 | - |
| 4:00 | - | - | - | 0.333 | 21.000 | 17.000 | 0.667 | 1.333 | 1.333 | - | 0.667 | 0.333 |
| 5:00 | - | - | - | 0.331 | 16.225 | 19.205 | 1.656 | 0.993 | 0.993 | 0.662 | 0.331 | - |
| 6:00 | - | - | - | 0.671 | 17.450 | 19.799 | 1.678 | 1.678 | 0.336 | 0.671 | - | - |
| 7:00 | - | - | - | 0.673 | 21.212 | 21.212 | - | 1.347 | 1.010 | 0.337 | - | 0.337 |
| 8:00 | - | 0.330 | - | 0.330 | 20.462 | 18.152 | 0.330 | 0.660 | 0.990 | 0.330 | - | 0.660 |
| 9:00 | - | 0.338 | 0.338 | 0.676 | 15.203 | 7.095 | 0.338 | 2.703 | 3.716 | 1.014 | - | 0.338 |
| 10:00 | - | 1.645 | - | 0.987 | 11.184 | 5.921 | 0.329 | 2.961 | 3.618 | 2.303 | 0.329 | 1.316 |
| 11:00 | - | 1.342 | - | 0.336 | 6.711 | 5.369 | 1.007 | 2.013 | 4.027 | 1.342 | 0.671 | 0.336 |
| 12:00 | - | 1.000 | - | - | 6.000 | 5.000 | 0.333 | 1.667 | 5.000 | 1.333 | 1.000 | 0.333 |
| 13:00 | - | 0.336 | - | 0.671 | 7.047 | 6.376 | 0.671 | 1.342 | 5.034 | 1.342 | 0.336 | - |
| 14:00 | - | - | - | 0.676 | 12.162 | 6.419 | - | 1.351 | 2.703 | 1.689 | 0.338 | 0.338 |
| 15:00 | - | - | 0.338 | 0.676 | 16.216 | 10.811 | 0.676 | 2.365 | 1.689 | 1.689 | 1.351 | 0.338 |
| 16:00 | - | - | - | 1.333 | 25.667 | 10.667 | 0.667 | 1.667 | 1.000 | 1.333 | 1.000 | 0.333 |
| 17:00 | - | - | - | 1.993 | 26.910 | 15.947 | 1.329 | 1.329 | 1.661 | 1.329 | 0.997 | 0.332 |
| 18:00 | - | - | - | 0.664 | 23.588 | 17.608 | 1.329 | 2.326 | 0.997 | 0.332 | 0.997 | - |
| 19:00 | - | - | - | 0.336 | 29.195 | 14.430 | 1.678 | 2.685 | 0.671 | 0.671 | 0.671 | - |
| 20:00 | - | - | - | 0.667 | 25.667 | 17.333 | 0.333 | 3.333 | 0.667 | 1.333 | 0.333 | - |
| 21:00 | - | - | - | 0.337 | 24.242 | 16.162 | - | 2.357 | 3.030 | 1.684 | 0.337 | 0.673 |
| 22:00 | - | - | - | 1.010 | 22.896 | 17.508 | 0.337 | 3.030 | 1.684 | 1.347 | - | 0.337 |
| 23:00 | - | - | - | 1.000 | 25.333 | 14.333 | 0.333 | 2.667 | 2.667 | 0.333 | - | 0.333 |
| Mean | - | 0.208 | 0.042 | 0.115 | 19.064 | 13.964 | 0.723 | 1.923 | 1.966 | 1.031 | 0.432 | 0.264 |




In November

Land breeze is dominated all time period;

Mostly Sea breeze starts from 10:00 up to 13:00; UTC time

Horizontal wind share may occurs in the period

10:00 up to 13:00;

## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL N**
**TABULAR FORM**

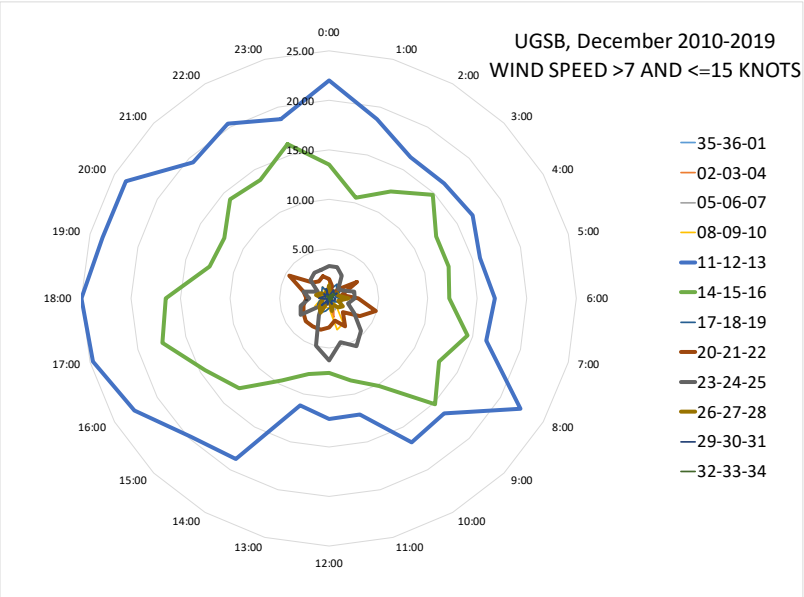
AERODROME: UGSB MONTH: DECEMBER PERIOD OF RECORD: 2010-2019

TOTAL NUMBER OF OBSERVATIONS: 13392 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 413636.00N LONGITUDE: 0413558.92E ELEVATION ABOVE MSL: 37 FT

FREQUENCIES (PER CENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTIONS (IN 30 DEGREE SECTORS) WITHIN SPECIFIED TIME RANGES, WHEN WIND SPEEDS ARE BELOW 16 KNOTS

| TIME(UTC) | WIND DIRECTION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **35-01** | **02-04** | **05-07** | **08-10** | **11-13** | **14-16** | **17-19** | **20-22** | **23-25** | **26-28** | **29-31** | **32-34** |
| 0:00 | - | - | - | 1.645 | 22.039 | 13.487 | 0.329 | 1.974 | 3.289 | 1.316 | - | - |
| 1:00 | - | - | - | 0.329 | 18.750 | 10.526 | 0.987 | 1.316 | 3.289 | 0.329 | 0.329 | 0.329 |
| 2:00 | - | - | - | 0.987 | 16.447 | 12.500 | 1.645 | - | 2.632 | 0.658 | 0.987 | 0.329 |
| 3:00 | - | - | 0.329 | 0.987 | 16.447 | 14.803 | 0.987 | 1.316 | 1.316 | 0.658 | 0.658 | 0.658 |
| 4:00 | - | - | - | - | 16.776 | 12.500 | 1.316 | 3.289 | 1.645 | 0.987 | 0.987 | 0.658 |
| 5:00 | - | - | - | - | 15.789 | 12.500 | 0.658 | 1.316 | 2.632 | 0.987 | 0.329 | 0.329 |
| 6:00 | - | - | 0.329 | 0.329 | 16.776 | 12.171 | 0.987 | 2.961 | 2.632 | 1.974 | 0.658 | - |
| 7:00 | - | - | 0.329 | - | 16.447 | 14.474 | 1.316 | 4.934 | 1.974 | 0.987 | 0.658 | 0.329 |
| 8:00 | - | 0.329 | 0.329 | 0.329 | 22.368 | 12.829 | 0.658 | 3.618 | 2.961 | 1.645 | 0.329 | - |
| 9:00 | - | - | 0.329 | 0.987 | 16.447 | 15.132 | 0.329 | 1.974 | 4.605 | 1.316 | 0.329 | - |
| 10:00 | - | 0.987 | 1.316 | 2.961 | 16.776 | 10.197 | 0.329 | 3.289 | 5.592 | 0.658 | 0.658 | - |
| 11:00 | - | 1.974 | 0.329 | 3.289 | 12.171 | 8.553 | 0.987 | 2.303 | 4.605 | 1.316 | 0.329 | 0.329 |
| 12:00 | - | 0.658 | 0.658 | 0.987 | 12.171 | 7.566 | 0.987 | 2.961 | 6.250 | - | - | - |
| 13:00 | - | - | 0.658 | 0.987 | 11.184 | 7.895 | 1.316 | 3.289 | 4.934 | 0.329 | 0.658 | - |
| 14:00 | - | 0.329 | - | 0.987 | 18.750 | 9.539 | 1.645 | 3.289 | 1.974 | 1.645 | 0.329 | - |
| 15:00 | - | - | - | 0.987 | 19.737 | 12.829 | 0.658 | 3.289 | 0.987 | 1.316 | 0.987 | - |
| 16:00 | - | - | 0.329 | 1.645 | 22.697 | 14.474 | 1.316 | 2.961 | 3.289 | 0.987 | - | - |
| 17:00 | - | - | - | 0.987 | 24.671 | 17.434 | 0.987 | 2.632 | 2.961 | 0.658 | 0.329 | - |
| 18:00 | - | - | - | 0.329 | 25.000 | 16.447 | 0.329 | 2.303 | 1.974 | 0.658 | 0.987 | - |
| 19:00 | - | 0.329 | - | 0.987 | 23.684 | 12.500 | 0.329 | 2.632 | 2.632 | 1.316 | 0.658 | - |
| 20:00 | - | - | 0.329 | 0.658 | 23.684 | 12.171 | 0.658 | 4.605 | 1.316 | 0.987 | 0.329 | - |
| 21:00 | - | - | - | - | 19.408 | 14.145 | 0.987 | 2.303 | 2.632 | 0.658 | 0.658 | 0.329 |
| 22:00 | - | - | - | 1.316 | 20.395 | 13.816 | 1.316 | 1.974 | 2.961 | 0.658 | 0.329 | - |
| 23:00 | - | - | - | 0.658 | 18.750 | 16.118 | 0.658 | 2.303 | 2.961 | 0.658 | 0.987 | - |
| Mean | - | 0.192 | 0.219 | 0.115 | 18.640 | 12.692 | 0.905 | 2.618 | 3.002 | 0.946 | 0.521 | 0.137 |




In December

Land breeze is dominated all time period

Mostly Sea breeze starts from
09:00 up to 13:00.
UTC time

Horizontal wind share may occurs in the period

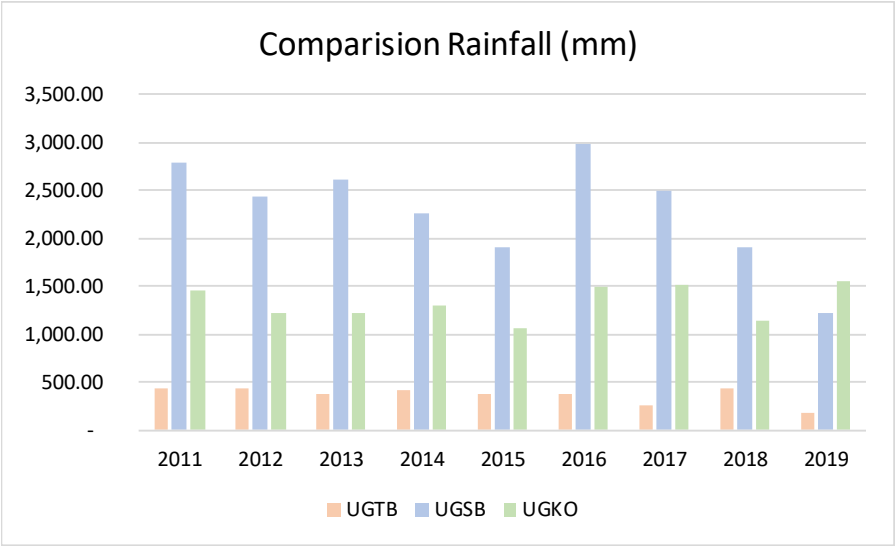
10:00 up to 13:00;

**AERONAUTICAL CLIMATOLOGY**

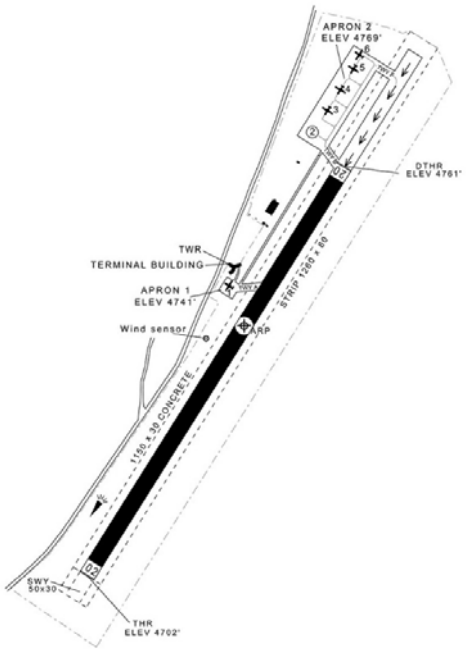
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL O**
**TABULAR FORM**

AERODROME: UGTB, UGKO, UGSB ANNUAL PERIOD OF RECORD: 2011-2019

| Comparision Rainfall (mm) | | | |
|---|---|---|---|
| Year | UGTB | UGSB | UGKO |
| 2011 | 446.20 | 2,777.20 | 1,459.40 |
| 2012 | 438.00 | 2,433.80 | 1,218.40 |
| 2013 | 381.00 | 2,606.20 | 1,219.10 |
| 2014 | 417.00 | 2,255.40 | 1,291.70 |
| 2015 | 381.80 | 1,906.20 | 1,062.70 |
| 2016 | 371.00 | 2,982.60 | 1,502.40 |
| 2017 | 253.40 | 2,502.60 | 1,510.60 |
| 2018 | 445.40 | 1,900.00 | 1,133.10 |
| 2019 | 181.00 | 1,217.70 | 1,553.80 |



# მესტიის აეროპორტი (UGMS)




საქართველოს ულამაზესი რეგიონი, სვანეთი მდებარეობს დასავლეთ საქართველოში, კავკასიონის ქედის სამხრეთით. სვანეთი გარშემორტყმულია კავკსიონის ქედის 3000-5000 მეტრის სიმაღლის მთის მწვერვალებით. სვანეთში მდებარეობს კავკასიონის ქედის ისეთი უმაღლესი მწვერვალები, როგორიცაა:

შხარა - 5201 მეტრი
თეთნულდი – 4974 მეტრი
შოთა რუსთაველი – 4960 მეტრი
უშბა – 4710 მეტრი
აილამა – 4525 მეტრი
და ა.შ

ამჟამად სვანეთი იყოფა ორ ნაწილად ზემო და ქვემო სვნეთი. ზემო სვანეთი მოიცავს მდინარე ენგურის ზემო წელს. ზემო სვანეთში, დაბა მესტიაში მდებარეობს თამარ მეფის სახელობის ადგილობრივი დანიშნულების აეროპორტი. მისი სიმაღლე საშუალო ზღვის დონიდან შეადგენს 1456 მეტრს (4778 ფუტი). მესტიის აეროპორტში მოწყობილია ერთი მიმართულების (კურსის) მქონე (TDZ02), ასაფრენ-დასაფრენი ზოლი (02/20).

ცხრილი #7. მესტიის აეროპორტის სიახლოვეს განლაგებული მთის სიმაღლეები და მიმართულებები დაკვირვების ადგილიდან (მესტიის აეროპორტის სამეთვალყურეო კოშკურის შენობა).

| # | მთის დასახელება | მიმართულება დაკვირვების ადგილიდან, გრადუსები. | სიმაღლე ზღვის დონიდან | | მანძილი დაკვირვების ადგილიდან, მეტრებში |
|---|---|---|---|---|---|
| | | | მეტრი | ფუტი | |
| 1 | ბანგურიანის მთა | 50°53′ | 3838 | 12 591,86 | 6877 |
| 2 | ზურულდის მთა | 175°50′ | 2348 | 7703,41 | 3749 |
| 3 | ლატალის მთა | 132°19′ | 1962 | 6437,01 | 7275 |
| 4 | ლაილას (ლაჰილა) მთა | 233°10′ | 4009 | 13 152,89 | 21891 |
| 5 | დალის კარის (დალაკორა) მთა | 357°04′ | 3430 | 11 253,28 | 10268 |
| 6 | ლეხტაგის მთა | 257°58′ | 1749 | 5738,19 | 3800 |

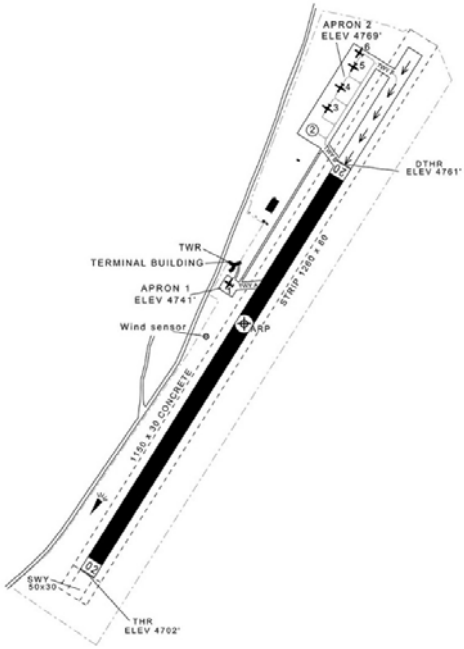
ზოგადად, ზემო სვანეთის კლიმატი ყალიბდება ადგილობრივი ოროგრაფიული მრავალფეროვნებიდან გამომდინარე, დასავლეთით ზღვის აკვატორიაზე ჩამოყალიბებული ჰაერის მასების შემოჭრა ზემო სვანეთის, კერძოდ დაბა მესტიის მიდამოებში მხოლოდ სამხრეთ-დასავლეთის, ენგურის ხეობის მიდამოებიდანაა შესაძლებელი. სხვა მიმართულებით, ერთგვარ ტაფობში მყოფი დაბა მესტია მაღალი მთის ქედებითაა შემოსაზღვრული, რაც ჰაერის მასების თავისუფლად შემოჭრას უშლის ხელს.

მესტიის აეროპორტი და საერთოდ დაბა მესტიისთვის არ არის დამახასიათებელია ძლიერი ქარები (model D). ქარის სიჩქარე და მიმართულება მერყეობს სეზონების მიხედვით, ზამთრის სეზონის თვეებში (დეკემბერი, იანვარი, თებერვალი) ძირითადად დომინანტურია სუსტი 1-5 კვანძის სიჩქარის მქონე, ცვლადი მიმართულების ქარები, იშვიათად დაიკვირვება ჩრდილო აღმოსავლეთის ქარები (11-15 კვანძის სიჩქარის). გაზაფხულის და ზაფხულის პერიოდში დომინანტურ ქარად კვლავ რჩება ცვლადი მიმართულების სუსტი ქარი, ხოლო ჩრდილო აღმოსავლეთის მიმართულების ქარს (ზამთრის პერიოდისთვის დამახასიათებელი) ენაცვლება სამხრეთ დასავლეთის მიმართულების ქარი. დაბა მესტიაში ჰაერის მასები გადადგილების მაქსიმალური დაბერვების სიჩქარეები, როგორიცაა 31-35 კვანძი ზაფხულის პერიოდში მიიღწევა (ივლისი, აგვისტო - MODEI D). მიუხედავად, იმისა, რომ ზამთრის პერიოდისთვის დამახასიათებელია სუსტი სიძლიერის ქარები, სტატისტიკურად სწორედ იანვრის თვეშია დაფიქსირებული (2017-2019 წლები) ქარის მაქსიმალური დაბერვა - 39 კვანძი ანუ 20 მ/წმ (MODEL L). მესტიის აეროპორტში, დღის საათებში (MODEL B - საფრენოსნო პერიოდები) მხოლოდ ზამთრის პერიოდებში, განსაკუთრებით დეკემბერის თვეში დაიკვირვება შეზღუდული ხილვადობა. წვიმიანი ამინდების სიხშირე კი პიკს აღწევს მაისის თვეში, ასევე მაისის თვე გამოირჩევა ყველაზე უხვი ნალექით (MODEL H და MODEL I), წლიურად საშუალოდ მესტიაში მოდის 600-900 მმ ნალექი. დაბა მესტიისთვის, როგორც ნებისმიერი მთიანი რეგიონისთვის დამახასიათებელია მაღალი ტემპერატურული დღე-ღამური ამპლიტუდა (MODEL E). ტემპერატურის აბსოლუტური მინიმალური და მაქსიმალური მნიშვნელობები, რაც დაფიქსირდა ბოლო 3 წლის განმავლობაში შესაბამისად შეადგენს -22$^{0}$ C-ს იანვრის და 36$^{0}$C-ს აგვისტოს თვეში.

კიოპენის კლიმატოლოგიური კრიტერიუმების მიხედვით, გაანალიზებულ იქნა მესტიის აეროპორტში დამონტაჟებული მეტეოსადგურის სამწლიანი (2017-2019) ემპირიული მონაცემები და განისაზღვრა, რომ დაბა მესტია (მესტიის აეროპორტი) განეკუთვნება ზომიერ კონტინენტურ კლიმატურ ზონას.

მესტიის აეროპორტის კლიმატოლოგიური მოდელები, რომელიც დაფუძნებულია, ხილვადობაზე (MODEL B), ამინდის მოვლენებზე (MODEL H), ღრუბლებზე (სიმაღლე და განფენილობა) (MODEL C) მოიცავს დღის საათების მხოლოდ ნათელ პერიოდებს (04:00-დან 13:00-მდე - უნივერსალური კოორდინირებული დრო - UTC), რადგან ზემოთ ნახსენები მეტეოროლოგიური ელემენტები, საეროდრომო ფაქტიურ ამინდებში (METAR) შედის ვიზუალური დაკვირვების საფუძველზე და მხოლოდ დღის ნათელი პერიოდისთვის.

## MESTIA AIRPORT (UGMS)




Svaneti is located in the northern part of Western Georgia on the southern slopes of the Caucasus Mountains ridge. It is surrounded by 3000-5000 meter's peaks, the Caucasus highest ones being among them:

Shkhara - 5201 meters
Tetnuldi – 4974 meters
Shota Rustaveli – 4960 meters
Ushba – 4710 meters
Ailama – 4525 meters,
and others.

Svaneti has two parts - Upper Svaneti and Lower Svaneti. Upper Svaneti lies in the Upper Inguri River area.

Queen Tamar Mestia domestic airport is located in the Upper part of Svaneti in a small, yet area main, town of Mestia. The airport elevation is 1456 m (4778 FT) above sea level. There is one runway (02/20) with one touchdown zone (TDZ02). The airport territory is surrounded by high mountain ridges, whose height and distance from the observation site is given in Table No. 7.

**Table No. 7.** Height of the mountains located near Mestia Airport and their distance from the observation site.

| # | Mountain | Direction from the observation site, m | Heights Above Sea Level | | Distance from the observation site m |
|---|---|---|---|---|---|
| | | | Meter | Feet | |
| 1 | Banguriani Mountain | 50°53′ | 3838 | 12 591,86 | 6877 |
| 2 | Zuruldi Mountain | 175°50′ | 2348 | 7703,41 | 3749 |
| 3 | Latali Mountain | 132°19′ | 1962 | 6437,01 | 7275 |
| 4 | Laila (Lahila) Mountain | 233°10′ | 4009 | 13 152,89 | 21891 |
| 5 | Door of Dali (Dalakora) Mountain | 357°04′ | 3430 | 11 253,28 | 10268 |
| 6 | Lekhtagi Mountain | 257°58′ | 1749 | 5738,19 | 3800 |

The main climate formation factor of Upper Svaneti is the orographic diversity of the region. The air masses formed over the sea in the western part of the country can only come in to Upper Svaneti on the whole , and to the town of Mestia location in particular, from south-west though the Inguri river valley. On it other sides, Mestia town is surrounded by high mountain ridges, thus being spared from free intrusion of air masses.

Strong winds are not typical of Mestia Airport and the Mestia area in whole (model D). Wind speed and direction vary with the seasons. In winter months (December, January, February) light breeze of 1-5 knots are experienced for the most part of the season. Wind direction during this period: prevailing variable winds and northeasterly winds of 11-15 knots at times. In the spring and summer, the light wind of variable direction keeps prevailing with the northeast wind (characteristic for the winter period) being replaced by the southwest wind. In the town of Mestia area the air masses move at their maximum speeds and gusts reach as much as 31-35 knots in the summer period (July, August - MODEI D).

Despite the fact that the winter period is characterized by light winds, statistically in January (2017-2019) the maximum wind gust was recorded - 39 knots or 20 m / s (MODEL L). At Mestia Airport, during day hours (MODEL B – flight operations periods), low visibility will only be observed in winter, especially in December. The frequency of rainy weather reaches its peak (maximum) in May, as May is characterized by the most abundant rainfall (MODEL H and MODEL I), with an average annual rainfall of 600-900 mm in Mestia. The town of Mestia, as well as any mountainous region, is characterized by high daily temperature fluctuation range (MODEL E).The absolute minimum and maximum values observed for the last 3 years are -22$^0$ C in January and 36$^0$C in August, respectively.

The empirical data of the three-year observation period (2017-2019) received from the meteorological station installed at Mestia Airport were analyzed in accordance with the Köppen climate classification system criteria and it was determined that the town of Mestia (Mestia Airport) area belongs to the temperate continental climate zone.

Mestia Airport Climatic Models Based on visibility (MODEL B), weather phenomena (MODEL H), clouds (altitude and amount) (MODEL C) include only daylight hours (04:00 to 13:00 UTC- Universal Coordinated Time) because the meteorological elements mentioned above are included in the aerodrome Aviation Routine Weather Report (METAR) based on visual observations and only for daytime.

## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGMS MONTH: JANUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | 3.81 | 19.05 | 26.67 | 44.76 |
| 0430 | - | - | - | - | 4.59 | 19.27 | 27.52 | 46.79 |
| 0500 | - | - | - | - | 2.88 | 13.46 | 20.19 | 39.42 |
| 0530 | - | - | - | - | 1.94 | 8.74 | 16.50 | 36.89 |
| 0600 | - | - | - | - | - | 6.90 | 15.52 | 35.34 |
| 0630 | - | - | - | - | - | 7.69 | 17.31 | 28.85 |
| 0700 | - | - | - | - | - | 6.60 | 13.21 | 29.25 |
| 0730 | - | - | - | - | - | 4.72 | 14.15 | 29.25 |
| 0800 | - | - | - | - | - | 4.81 | 13.46 | 30.77 |
| 0830 | - | - | - | - | - | 5.77 | 10.58 | 28.85 |
| 0900 | - | - | - | - | - | 5.71 | 11.43 | 29.52 |
| 0930 | - | - | - | - | - | 5.83 | 9.71 | 29.13 |
| 1000 | - | - | - | - | 0.98 | 6.86 | 10.78 | 32.35 |
| 1030 | - | - | - | - | 0.96 | 6.73 | 10.58 | 29.81 |
| 1100 | - | - | - | - | 0.94 | 5.66 | 8.49 | 29.25 |
| 1130 | - | - | - | - | 0.98 | 4.90 | 7.84 | 28.43 |
| 1200 | - | - | - | - | 0.95 | 4.76 | 9.52 | 30.48 |
| 1230 | - | - | - | - | 0.93 | 4.67 | 8.41 | 27.10 |
| 1300 | - | - | - | - | - | 3.88 | 5.83 | 26.21 |
| Mean | - | - | - | - | 1.00 | 7.68 | 13.56 | 32.23 |

According to the climatological table of January the mean percentage of visibility values below 8000 meters is 32.23%; correspondingly, the mean percentage of 67.77% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 1.00% (See climatological table of January, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGMS MONTH: FEBRUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1596 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | - | 13.21 | 22.64 | 45.28 |
| 0430 | - | - | - | - | - | 9.62 | 22.12 | 42.31 |
| 0500 | - | - | - | - | - | 9.43 | 20.75 | 34.91 |
| 0530 | - | - | - | - | - | 5.71 | 16.19 | 31.43 |
| 0600 | - | - | - | - | - | 7.14 | 19.64 | 33.93 |
| 0630 | - | - | - | - | - | 8.11 | 20.72 | 34.23 |
| 0700 | - | - | - | - | - | 8.33 | 23.15 | 34.26 |
| 0730 | - | - | - | - | 1.87 | 7.48 | 17.76 | 32.71 |
| 0800 | - | - | - | - | - | 1.92 | 20.19 | 31.73 |
| 0830 | - | - | - | - | - | 1.85 | 14.81 | 34.26 |
| 0900 | - | - | - | - | - | 3.74 | 10.28 | 32.71 |
| 0930 | - | - | - | - | - | 4.72 | 9.43 | 29.25 |
| 1000 | - | - | - | - | - | 1.96 | 9.80 | 27.45 |
| 1030 | - | - | - | - | - | 1.87 | 11.21 | 28.04 |
| 1100 | - | - | - | - | - | - | 6.48 | 29.63 |
| 1130 | - | - | - | - | - | - | 8.57 | 27.62 |
| 1200 | - | - | - | - | - | 1.79 | 8.04 | 27.68 |
| 1230 | - | - | - | - | - | 3.74 | 8.41 | 23.36 |
| 1300 | - | - | - | - | - | 3.81 | 7.62 | 16.19 |
| Mean | - | - | - | - | 0.10 | 4.97 | 14.62 | 31.42 |

According to the climatological table of February the mean percentage of visibility values below 8000 meters is 31.42%; correspondingly, the mean percentage of 68.58% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.10% (See climatological table of February, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGMS MONTH: MARCH PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | 0.84 | 10.08 | 19.33 | 39.50 |
| 0430 | - | - | - | - | - | 7.83 | 17.39 | 36.52 |
| 0500 | - | - | - | - | - | 5.79 | 15.70 | 33.88 |
| 0530 | - | - | - | - | 0.83 | 4.13 | 14.05 | 33.06 |
| 0600 | - | - | - | - | 1.67 | 2.50 | 11.67 | 34.17 |
| 0630 | - | - | - | - | - | 5.22 | 13.91 | 31.30 |
| 0700 | - | - | - | - | - | 6.31 | 13.51 | 31.53 |
| 0730 | - | - | - | - | 1.71 | 7.69 | 11.97 | 28.21 |
| 0800 | - | - | - | - | 1.74 | 5.22 | 13.04 | 26.96 |
| 0830 | - | - | - | - | - | 6.14 | 13.16 | 25.44 |
| 0900 | - | - | - | - | 1.74 | 7.83 | 12.17 | 27.83 |
| 0930 | - | - | - | - | - | 6.19 | 9.73 | 25.66 |
| 1000 | - | - | - | - | - | 7.21 | 10.81 | 26.13 |
| 1030 | - | - | - | - | - | 5.41 | 9.91 | 25.23 |
| 1100 | - | - | - | - | - | 4.35 | 7.83 | 23.48 |
| 1130 | - | - | - | - | - | 3.60 | 9.01 | 24.32 |
| 1200 | - | - | - | - | - | 1.74 | 5.22 | 24.35 |
| 1230 | - | - | - | - | - | 1.82 | 7.27 | 25.45 |
| 1300 | - | - | - | - | - | 3.60 | 7.21 | 23.42 |
| Mean | - | - | - | - | 0.45 | 5.40 | 11.73 | 28.76 |

According to the climatological table of March the mean percentage of visibility values below 8000 meters is 28.76%; correspondingly, the mean percentage of 71.24% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.45% (See climatological table of March, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGMS MONTH: APRIL PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1710 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | - | 0.86 | 7.76 | 26.72 |
| 0430 | - | - | - | - | - | 0.87 | 7.83 | 25.22 |
| 0500 | - | - | - | - | - | 0.87 | 6.09 | 23.48 |
| 0530 | - | - | - | - | - | 0.80 | 8.00 | 26.40 |
| 0600 | - | - | - | - | - | - | 6.09 | 21.74 |
| 0630 | - | - | - | - | - | - | 7.14 | 22.32 |
| 0700 | - | - | - | - | - | 1.72 | 6.90 | 20.69 |
| 0730 | - | - | - | - | - | - | 5.41 | 18.92 |
| 0800 | - | - | - | - | - | - | 5.22 | 17.39 |
| 0830 | - | - | - | - | 1.80 | 1.80 | 7.21 | 18.02 |
| 0900 | - | - | - | - | - | - | 2.70 | 13.51 |
| 0930 | - | - | - | - | - | - | 5.61 | 14.02 |
| 1000 | - | - | - | - | 1.71 | 1.71 | 4.27 | 13.68 |
| 1030 | - | - | - | - | - | 1.82 | 4.55 | 13.64 |
| 1100 | - | - | - | - | 1.77 | 1.77 | 4.42 | 14.16 |
| 1130 | - | - | - | - | - | 1.80 | 4.50 | 12.61 |
| 1200 | - | - | - | - | - | - | 3.54 | 9.73 |
| 1230 | - | - | - | - | - | 1.77 | 1.77 | 7.08 |
| 1300 | - | - | - | - | - | - | 3.70 | 9.26 |
| Mean | - | - | - | - | 0.28 | 0.83 | 5.41 | 17.29 |

According to the climatological table of April the mean percentage of visibility values below 8000 meters is 17.29%; correspondingly, the mean percentage of 82.71% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.28% (See climatological table of April, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL B**

AERODROME: UGMS MONTH: MAY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | - | 1.57 | 14.17 | 33.86 |
| 0430 | - | - | - | - | - | 1.64 | 13.11 | 32.79 |
| 0500 | - | - | - | - | - | 3.20 | 10.40 | 28.00 |
| 0530 | - | - | - | - | - | 3.05 | 11.45 | 25.95 |
| 0600 | - | - | - | - | - | 6.77 | 12.03 | 28.57 |
| 0630 | - | - | - | - | 1.57 | 1.57 | 10.24 | 25.98 |
| 0700 | - | - | - | - | - | - | 10.57 | 24.39 |
| 0730 | - | - | - | - | - | 1.65 | 5.79 | 25.62 |
| 0800 | - | - | - | - | - | - | 5.74 | 26.23 |
| 0830 | - | - | - | - | - | - | 3.25 | 21.14 |
| 0900 | - | - | - | - | - | 1.61 | 3.23 | 25.81 |
| 0930 | - | - | - | - | - | - | 4.92 | 24.59 |
| 1000 | - | - | - | - | - | - | 5.00 | 27.50 |
| 1030 | - | - | - | - | - | - | 4.88 | 23.58 |
| 1100 | - | - | - | - | - | - | 3.33 | 24.17 |
| 1130 | - | - | - | - | - | - | 1.65 | 23.14 |
| 1200 | - | - | - | - | - | - | - | 23.53 |
| 1230 | - | - | - | - | - | 1.59 | 1.59 | 22.22 |
| 1300 | - | - | - | - | - | 2.50 | 2.50 | 17.50 |
| Mean | - | - | - | - | 0.08 | 1.32 | 6.52 | 25.50 |

According to the climatological table of May the mean percentage of visibility values below 8000 meters is 25.50%; correspondingly, the mean percentage of 74.50% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.08% (See climatological table of May, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGMS MONTH: JUNE PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1710 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | - | - | 2.46 | 17.21 |
| 0430 | - | - | - | - | - | - | 2.46 | 15.57 |
| 0500 | - | - | - | - | - | - | 2.46 | 15.57 |
| 0530 | - | - | - | - | - | - | 2.34 | 11.72 |
| 0600 | - | - | - | - | - | - | - | 13.01 |
| 0630 | - | - | - | - | - | - | - | 13.33 |
| 0700 | - | - | - | - | - | - | 1.64 | 11.48 |
| 0730 | - | - | - | - | - | - | - | 12.50 |
| 0800 | - | - | - | - | - | - | - | 11.76 |
| 0830 | - | - | - | - | - | 0.83 | 0.83 | 11.67 |
| 0900 | - | - | - | - | - | 0.84 | 0.84 | 10.92 |
| 0930 | - | - | - | - | - | - | - | 10.00 |
| 1000 | - | - | - | - | - | - | - | 12.20 |
| 1030 | - | - | - | - | - | - | - | 9.02 |
| 1100 | - | - | - | - | - | - | - | 11.38 |
| 1130 | - | - | - | - | - | - | - | 10.83 |
| 1200 | - | - | - | - | - | - | - | 12.80 |
| 1230 | - | - | - | - | - | - | - | 11.30 |
| 1300 | - | - | - | - | - | - | - | 9.40 |
| Mean | - | - | - | - | - | 0.09 | 0.69 | 12.19 |

According to the climatological table of June the mean percentage of visibility values below 8000 meters is 12.19%; correspondingly, the mean percentage of 87.81% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 3000 meters is 0.09% (See climatological table of June, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL B**

AERODROME: UGMS MONTH: JULY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | - | - | 2.31 | 14.62 |
| 0430 | - | - | - | - | - | - | 2.36 | 15.75 |
| 0500 | - | - | - | - | - | - | 3.28 | 13.11 |
| 0530 | - | - | - | - | - | - | 2.42 | 12.90 |
| 0600 | - | - | - | - | - | - | 1.56 | 15.63 |
| 0630 | - | - | - | - | - | - | 1.64 | 14.75 |
| 0700 | - | - | - | - | - | - | 2.40 | 13.60 |
| 0730 | - | - | - | - | - | - | 1.63 | 13.01 |
| 0800 | - | - | - | - | - | - | 2.31 | 13.08 |
| 0830 | - | - | - | - | - | - | 1.55 | 12.40 |
| 0900 | - | - | - | - | - | - | 0.81 | 13.01 |
| 0930 | - | - | - | - | - | - | - | 9.92 |
| 1000 | - | - | - | - | - | - | 1.61 | 10.48 |
| 1030 | - | - | - | - | - | - | 1.65 | 6.61 |
| 1100 | - | - | - | - | - | - | - | 4.13 |
| 1130 | - | - | - | - | - | - | - | 4.96 |
| 1200 | - | - | - | - | - | - | - | 6.45 |
| 1230 | - | - | - | - | - | - | - | 4.07 |
| 1300 | - | - | - | - | - | - | - | 5.08 |
| Mean | - | - | - | - | - | - | 1.34 | 10.71 |

According to the climatological table of July the mean percentage of visibility values below 8000 meters is 10.71%; correspondingly, the mean percentage of 89.29% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 5000 meters is 1.34% (See climatological table of July, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL B**

AERODROME: UGMS MONTH: AUGUST PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | - | - | - | 11.02 |
| 0430 | - | - | - | - | - | - | - | 7.26 |
| 0500 | - | - | - | - | - | - | - | 8.06 |
| 0530 | - | - | - | - | - | - | - | 7.69 |
| 0600 | - | - | - | - | - | - | - | 6.40 |
| 0630 | - | - | - | - | - | - | - | 6.35 |
| 0700 | - | - | - | - | - | - | - | 5.00 |
| 0730 | - | - | - | - | - | - | - | 4.92 |
| 0800 | - | - | - | - | - | - | - | 3.39 |
| 0830 | - | - | - | - | - | - | - | 4.80 |
| 0900 | - | - | - | - | - | - | - | 5.60 |
| 0930 | - | - | - | - | - | - | - | 5.00 |
| 1000 | - | - | - | - | - | - | - | 4.20 |
| 1030 | - | - | - | - | - | - | - | 4.10 |
| 1100 | - | - | - | - | - | - | - | 8.40 |
| 1130 | - | - | - | - | - | - | - | 5.69 |
| 1200 | - | - | - | - | - | - | - | 3.31 |
| 1230 | - | - | - | - | 1.67 | 1.67 | 1.67 | 8.33 |
| 1300 | - | - | - | - | - | - | - | 1.69 |
| Mean | - | - | - | - | 0.09 | 0.09 | 0.09 | 5.85 |

According to the climatological table of August the mean percentage of visibility values below 8000 meters is 5.85%; correspondingly, the mean percentage of 94.15% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.09% (See climatological table of August, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGMS MONTH: SEPTEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1710 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | - | - | 3.25 | 14.63 |
| 0430 | - | - | - | - | - | - | 4.17 | 12.50 |
| 0500 | - | - | - | - | - | - | 3.13 | 13.28 |
| 0530 | - | - | - | - | - | - | 1.64 | 9.84 |
| 0600 | - | - | - | - | - | - | 1.55 | 10.08 |
| 0630 | - | - | - | - | - | - | 0.83 | 11.57 |
| 0700 | - | - | - | - | - | - | 0.81 | 10.57 |
| 0730 | - | - | - | - | - | - | 0.82 | 10.66 |
| 0800 | - | - | - | - | - | - | 0.81 | 9.68 |
| 0830 | - | - | - | - | - | - | 2.44 | 8.13 |
| 0900 | - | - | - | - | - | - | 1.65 | 7.44 |
| 0930 | - | - | - | - | - | - | 0.84 | 5.04 |
| 1000 | - | - | - | - | - | - | - | 5.98 |
| 1030 | - | - | - | - | - | - | 0.82 | 4.92 |
| 1100 | - | - | - | - | - | - | 1.61 | 6.45 |
| 1130 | - | - | - | - | - | - | - | 4.17 |
| 1200 | - | - | - | - | - | - | - | 4.76 |
| 1230 | - | - | - | - | - | - | - | 4.13 |
| 1300 | - | - | - | - | - | - | - | 5.26 |
| Mean | - | - | - | - | - | - | 1.28 | 8.37 |

According to the climatological table of September the mean percentage of visibility values below 8000 meters is 8.37%; correspondingly, the mean percentage of 91.63% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 5000 meters is 0.03% (See climatological table of September, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGMS MONTH: OCTOBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | - | 1.19 | 3.57 | 16.67 |
| 0430 | - | - | - | - | - | 1.15 | 2.30 | 13.79 |
| 0500 | - | - | - | - | - | 1.18 | 1.18 | 16.47 |
| 0530 | - | - | - | - | - | 1.22 | 3.66 | 19.51 |
| 0600 | - | - | - | - | - | 1.20 | 2.41 | 18.07 |
| 0630 | - | - | - | - | - | 1.20 | 2.41 | 20.48 |
| 0700 | - | - | - | - | - | - | 4.88 | 17.07 |
| 0730 | - | - | - | - | - | - | 3.61 | 19.28 |
| 0800 | - | - | - | - | - | - | 4.88 | 17.07 |
| 0830 | - | - | - | - | 1.22 | 1.22 | 6.10 | 14.63 |
| 0900 | - | - | - | - | - | - | 3.61 | 13.25 |
| 0930 | - | - | - | - | - | - | 3.75 | 13.75 |
| 1000 | - | - | - | - | - | - | 4.76 | 11.90 |
| 1030 | - | - | - | - | - | 1.22 | 2.44 | 10.98 |
| 1100 | - | - | - | - | - | 1.22 | 3.66 | 10.98 |
| 1130 | - | - | - | - | - | 1.18 | 3.53 | 11.76 |
| 1200 | - | - | - | - | - | - | 3.66 | 10.98 |
| 1230 | - | - | - | - | - | - | 3.57 | 10.71 |
| 1300 | - | - | - | - | - | - | 3.53 | 9.41 |
| Mean | - | - | - | - | 0.06 | 0.63 | 3.55 | 14.57 |

According to the climatological table of October the mean percentage of visibility values below 8000 meters is 14.57%; correspondingly, the mean percentage of 95.43% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 1500 meters is 0.06% (See climatological table of October, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGMS MONTH: NOVEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1710 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | - | 6.90 | 8.05 | 31.03 |
| 0430 | - | - | - | - | - | 7.06 | 8.24 | 28.24 |
| 0500 | - | - | - | - | - | 5.95 | 9.52 | 25.00 |
| 0530 | - | - | - | - | - | 5.95 | 8.33 | 20.24 |
| 0600 | - | - | - | - | - | 4.60 | 8.05 | 21.84 |
| 0630 | - | - | - | - | - | 3.61 | 8.43 | 22.89 |
| 0700 | - | - | - | - | - | 4.76 | 8.33 | 22.62 |
| 0730 | - | - | - | - | - | 4.76 | 8.33 | 21.43 |
| 0800 | - | - | - | - | - | 4.88 | 6.10 | 20.73 |
| 0830 | - | - | - | - | - | 3.53 | 5.88 | 18.82 |
| 0900 | - | - | - | - | - | 3.53 | 4.71 | 21.18 |
| 0930 | - | - | - | - | - | 3.57 | 3.57 | 19.05 |
| 1000 | - | - | - | - | - | 3.70 | 3.70 | 17.28 |
| 1030 | - | - | - | - | - | 2.41 | 3.61 | 18.07 |
| 1100 | - | - | - | - | - | 3.61 | 4.82 | 16.87 |
| 1130 | - | - | - | - | - | 2.35 | 3.53 | 15.29 |
| 1200 | - | - | - | - | - | 1.20 | 2.41 | 14.46 |
| 1230 | - | - | - | - | - | 2.38 | 3.57 | 11.90 |
| 1300 | - | - | - | - | - | 2.27 | 2.27 | 11.36 |
| Mean | - | - | - | - | - | 4.05 | 5.87 | 19.91 |

According to the climatological table of November the mean percentage of visibility values below 8000 meters is 19.91%; correspondingly, the mean percentage of 80.09% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 3000 meters is 4.05% (See climatological table of November, Model B).

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL B**
**TABULAR FORM**

AERODROME: UGMS MONTH: DECEMBER PERIOD OF RECORD: 2017-2019

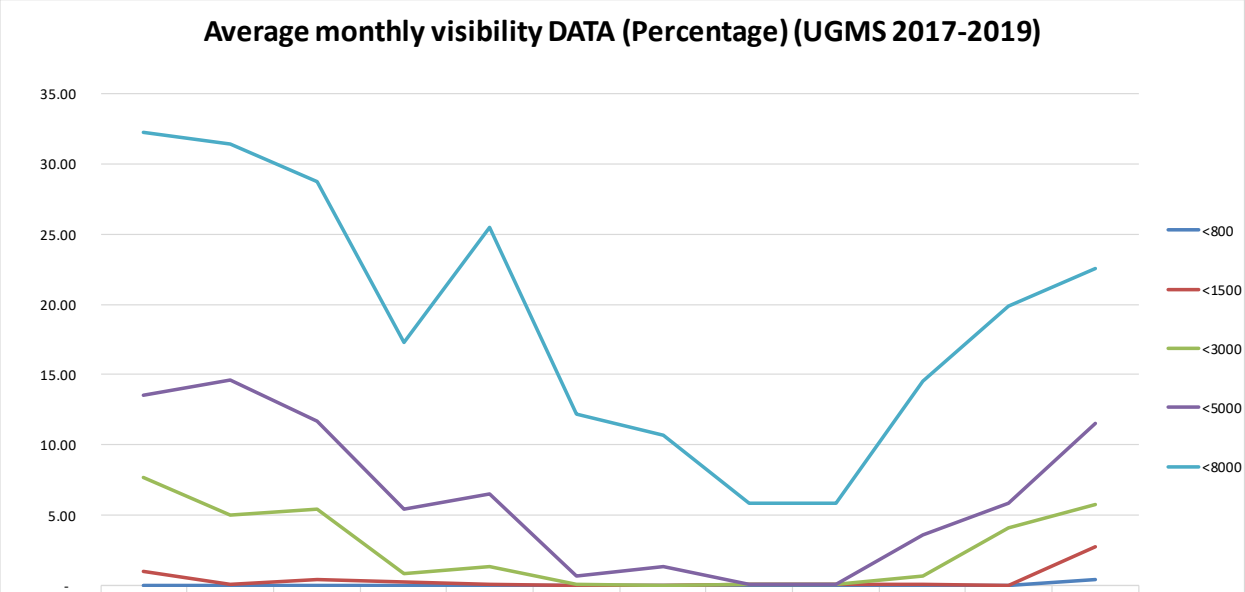
TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF VISIBILITY BELOW SPECIFIED VALUES (IN METERS) AT SPECIFIED TIMES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | VISIBILITY | | | | | | | |
| | <200 | <400 | <600 | <800 | <1500 | <3000 | <5000 | <8000 |
| 0400 | - | - | - | - | 1.15 | 4.60 | 13.79 | 35.63 |
| 0430 | - | - | - | - | 1.18 | 4.71 | 10.59 | 34.12 |
| 0500 | - | - | - | - | 1.19 | 3.57 | 11.90 | 33.33 |
| 0530 | - | - | - | - | 1.14 | 5.68 | 11.36 | 22.73 |
| 0600 | - | - | - | - | 2.25 | 5.62 | 10.11 | 25.84 |
| 0630 | - | - | - | 1.18 | 3.53 | 5.88 | 7.06 | 22.35 |
| 0700 | - | - | 1.15 | 2.30 | 3.45 | 5.75 | 12.64 | 26.44 |
| 0730 | - | - | 1.18 | 1.18 | 4.71 | 9.41 | 11.76 | 23.53 |
| 0800 | - | - | 2.30 | 2.30 | 6.90 | 9.20 | 16.09 | 25.29 |
| 0830 | - | - | 1.16 | 1.16 | 4.65 | 8.14 | 12.79 | 24.42 |
| 0900 | - | - | - | - | 1.19 | 4.76 | 10.71 | 20.24 |
| 0930 | - | - | - | - | 2.38 | 5.95 | 11.90 | 19.05 |
| 1000 | - | - | - | - | 2.35 | 5.88 | 12.94 | 18.82 |
| 1030 | - | - | - | - | 2.38 | 5.95 | 11.90 | 15.48 |
| 1100 | - | - | - | - | 2.25 | 5.62 | 12.36 | 16.85 |
| 1130 | - | - | - | - | 3.61 | 6.02 | 9.64 | 15.66 |
| 1200 | - | - | - | - | 2.41 | 4.82 | 12.05 | 16.87 |
| 1230 | - | - | - | - | 2.41 | 3.61 | 10.84 | 18.07 |
| 1300 | - | - | - | - | 2.41 | 3.61 | 8.43 | 13.25 |
| Mean | - | - | 0.30 | 0.43 | 2.71 | 5.73 | 11.52 | 22.52 |

According to the climatological table of December the mean percentage of visibility values below 8000 meters is 22.52%; correspondingly, the mean percentage of 77.48% constitutes the visibility values of 8000 meters or above.

According to the climatological table, based on the statistical analysis, the occurrence probability of horizontal visibility values below 600 meters is 0.3% (See climatological table of December, Model B).




| | January Mean % | Feburuary Mean % | March Mean % | April Mean % | May Mean % | June Mean % | July Mean % | August Mean % | September Mean % | October Mean % | November Mean % | December Mean % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <800 | - | - | - | - | - | - | - | - | - | - | - | 0.43 |
| <1500 | 1.00 | 0.10 | 0.45 | 0.28 | 0.08 | - | - | 0.09 | 0.09 | 0.06 | - | 2.71 |
| <3000 | 7.68 | 4.97 | 5.40 | 0.83 | 1.32 | 0.09 | - | 0.09 | 0.09 | 0.63 | 4.05 | 5.73 |
| <5000 | 13.56 | 14.62 | 11.73 | 5.41 | 6.52 | 0.69 | 1.34 | 0.09 | 0.09 | 3.55 | 5.87 | 11.52 |
| <8000 | 32.23 | 31.42 | 28.76 | 17.29 | 25.50 | 12.19 | 10.71 | 5.85 | 5.85 | 14.57 | 19.91 | 22.52 |

## AERONAUTICAL CLIMATOLOGY

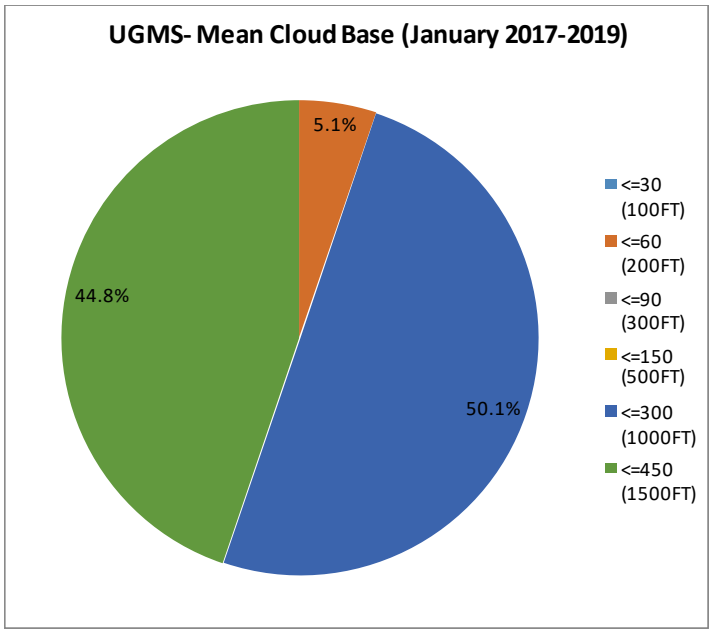
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGMS MONTH: JANUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | - | 5.71 | 14.29 |
| 0430 | - | - | - | - | 5.50 | 14.68 |
| 0500 | - | - | - | - | 4.81 | 8.65 |
| 0530 | - | - | - | - | 1.94 | 3.88 |
| 0600 | - | - | - | - | 3.45 | 5.17 |
| 0630 | - | - | - | - | 0.96 | 4.81 |
| 0700 | - | - | - | - | 0.94 | 7.55 |
| 0730 | - | - | - | - | 0.94 | 4.72 |
| 0800 | - | - | - | - | 1.92 | 3.85 |
| 0830 | - | - | - | - | 3.85 | 4.81 |
| 0900 | - | - | - | - | 2.86 | 3.81 |
| 0930 | - | - | - | - | 2.91 | 3.88 |
| 1000 | - | 0.98 | 0.98 | 0.98 | 3.92 | 3.92 |
| 1030 | - | 0.96 | 0.96 | 0.96 | 3.85 | 5.77 |
| 1100 | - | 0.94 | 0.94 | 0.94 | 4.72 | 6.60 |
| 1130 | - | 0.98 | 0.98 | 0.98 | 4.90 | 4.90 |
| 1200 | - | 0.95 | 0.95 | 0.95 | 4.76 | 4.76 |
| 1230 | - | 0.93 | 0.93 | 0.93 | 3.74 | 3.74 |
| 1300 | - | - | - | - | - | 1.94 |
| Mean | - | 0.30 | 0.30 | 0.30 | 3.25 | 5.88 |




In January, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1 >1000FT and <= 1500FT – 44.8%
2 >500FT and <= 1000FT – 50.1%
3 >300FT and <= 500FT – not observed
4 >200FT and <= 300FT – not observed
5 >100FT and <= 200FT – 5.1 %
6 <=100FT – not observed

In January, the mean percentage of cloud ceiling recorded above 1500 feet is 94.12% of the total amount of occurrences (See climatological table of January, Model C).

Three-year observation data on clouds revealed average occurrence probability of 0.30 percent of minimum cloud height of 200 feet and below (cloud amount BKN and OVC) (see climatological table of January, Model C).

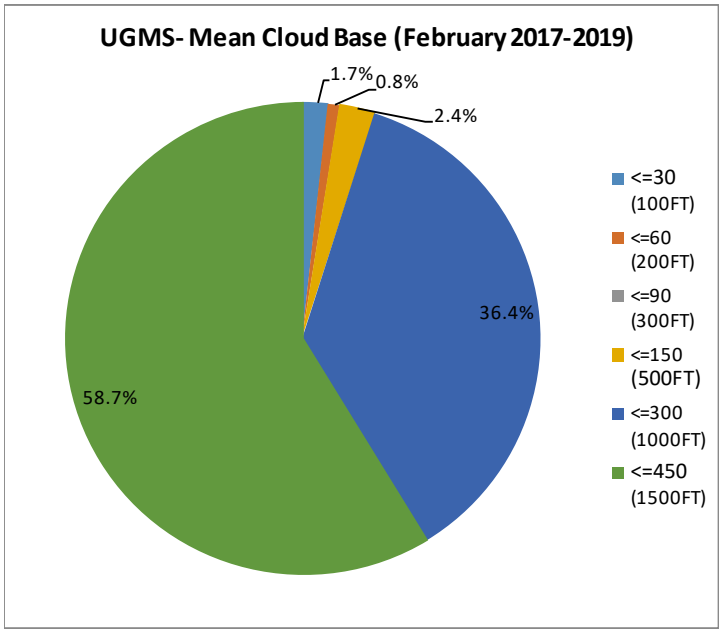
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGMS MONTH: FEBRUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1596 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | - | 7.55 | 10.38 |
| 0430 | - | - | - | - | 4.81 | 7.69 |
| 0500 | - | - | - | - | 4.72 | 8.49 |
| 0530 | - | - | - | - | 2.86 | 5.71 |
| 0600 | - | - | - | - | 1.79 | 4.46 |
| 0630 | - | 0.90 | 0.90 | 1.80 | 5.41 | 10.81 |
| 0700 | - | - | - | 0.93 | 4.63 | 12.96 |
| 0730 | - | - | - | 0.93 | 7.48 | 10.28 |
| 0800 | - | - | - | - | 1.92 | 7.69 |
| 0830 | - | - | - | - | 1.85 | 7.41 |
| 0900 | 1.87 | 1.87 | 1.87 | 1.87 | 1.87 | 4.67 |
| 0930 | - | - | - | - | - | 3.77 |
| 1000 | - | - | - | - | - | 2.94 |
| 1030 | - | - | - | - | - | 0.93 |
| 1100 | - | - | - | - | - | 2.78 |
| 1130 | - | - | - | - | - | 2.86 |
| 1200 | - | - | - | - | 1.79 | 4.46 |
| 1230 | - | - | - | - | - | 2.80 |
| 1300 | - | - | - | - | - | 1.90 |
| Mean | 0.10 | 0.15 | 0.15 | 0.29 | 2.46 | 5.95 |




In February, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1 >1000FT and <= 1500FT – 58.7%
2 >500FT and <= 1000FT – 36.4%
3 >300FT and <= 500FT – 2.4%
4 >200FT and <= 300FT – not observed
5 >100FT and <= 200FT – 0.8%
6 <=100FT – 1.7%

In February, the mean percentage of cloud ceiling recorded above 1500 feet is 94.05% of the total amount of occurrences (See climatological table of February, Model C).

Three-year observation data on clouds revealed average occurrence probability of 0.10 percent of minimum cloud height of 100 feet and below (cloud amount BKN and OVC) (see climatological table of February, Model C).

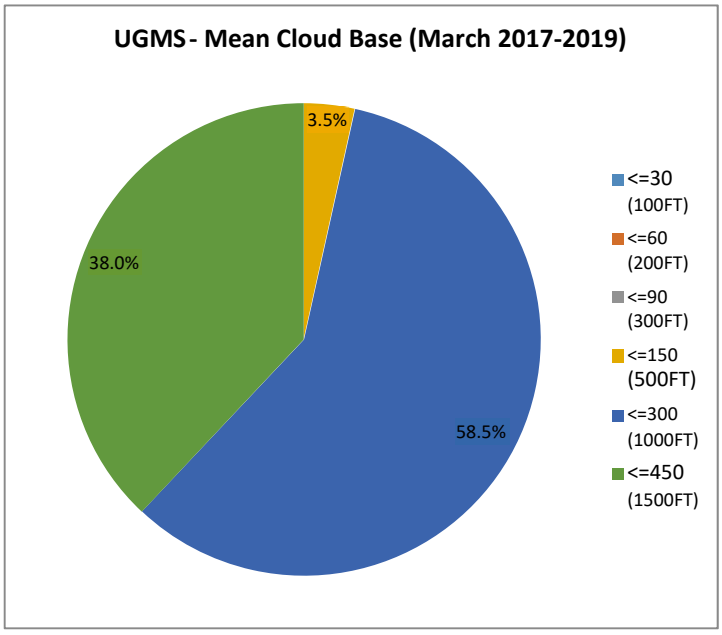
**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL C**

AERODROME: UGMS MONTH: MARCH PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | - | 4.10 | 5.74 |
| 0430 | - | - | - | - | 4.27 | 5.98 |
| 0500 | - | - | - | - | 4.07 | 6.50 |
| 0530 | - | - | - | 1.63 | 5.69 | 8.13 |
| 0600 | - | - | - | 1.64 | 5.74 | 8.20 |
| 0630 | - | - | - | 1.71 | 5.98 | 9.40 |
| 0700 | - | - | - | - | 4.42 | 7.96 |
| 0730 | - | - | - | - | 5.04 | 8.40 |
| 0800 | - | - | - | - | 6.84 | 9.40 |
| 0830 | - | - | - | - | 6.84 | 11.11 |
| 0900 | - | - | - | - | 6.72 | 10.08 |
| 0930 | - | - | - | - | 5.98 | 9.40 |
| 1000 | - | - | - | - | 2.61 | 7.83 |
| 1030 | - | - | - | - | 2.61 | 5.22 |
| 1100 | - | - | - | - | 4.20 | 6.72 |
| 1130 | - | - | - | - | 3.48 | 6.09 |
| 1200 | - | - | - | - | 2.52 | 4.20 |
| 1230 | - | - | - | - | 4.35 | 6.09 |
| 1300 | - | - | - | - | 3.48 | 6.96 |
| Mean | - | - | - | 0.26 | 4.68 | 7.55 |




In March, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1 >1000FT and <= 1500FT – 38.0%
2 >500FT and <= 1000FT – 58.5%
3 >300FT and <= 500FT – 3.5%
4 >200FT and <= 300FT – not observed
5 >100FT and <= 200FT – not observed
6 <=100FT – not observed

In March, the mean percentage of cloud ceiling recorded above 1500 feet is 92.45% of the total amount of occurrences (See climatological table of March, Model C).

Three-year observation data on clouds revealed average occurrence probability of 0.26 percent of minimum cloud height of 500 feet and below (cloud amount BKN and OVC) (see climatological table of March, Model C).

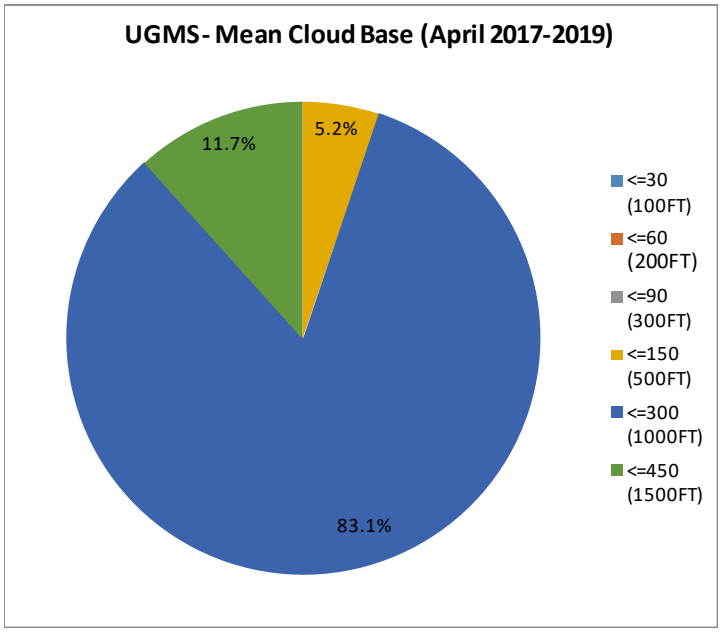
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGMS MONTH: APRIL PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1710 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | 1.72 | 4.31 | 6.90 |
| 0430 | - | - | - | - | 2.61 | 5.22 |
| 0500 | - | - | - | 1.74 | 4.35 | 6.96 |
| 0530 | - | - | - | - | 5.60 | 8.00 |
| 0600 | - | - | - | - | 7.83 | 7.83 |
| 0630 | - | - | - | - | 5.36 | 5.36 |
| 0700 | - | - | - | - | 5.17 | 5.17 |
| 0730 | - | - | - | - | 7.96 | 7.96 |
| 0800 | - | - | - | - | 5.98 | 7.69 |
| 0830 | - | - | - | - | 4.42 | 4.42 |
| 0900 | - | - | - | - | 4.42 | 4.42 |
| 0930 | - | - | - | - | 6.42 | 6.42 |
| 1000 | - | - | - | - | 5.04 | 5.04 |
| 1030 | - | - | - | 1.79 | 6.25 | 6.25 |
| 1100 | - | - | - | - | 2.61 | 2.61 |
| 1130 | - | - | - | - | 4.42 | 4.42 |
| 1200 | - | - | - | - | 3.48 | 3.48 |
| 1230 | - | - | - | - | 1.74 | 1.74 |
| 1300 | - | - | - | - | 1.82 | 1.82 |
| Mean | - | - | - | 0.28 | 4.73 | 5.35 |




In April, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – 11.7%
2. >500FT and <= 1000FT – 83.1%
3. >300FT and <= 500FT – 5.2%
4. >200FT and <= 300FT – not observed
5. >100FT and <= 200FT – not observed
6. <=100FT – not observed

In April, the mean percentage of cloud ceiling recorded above 1500 feet is 94.65% of the total amount of occurrences (See climatological table of April, Model C).

Three-year observation data on clouds revealed average occurrence probability of 0.28 percent of minimum cloud height of 500 feet and below (cloud amount BKN and OVC) (see climatological table of April, Model C).

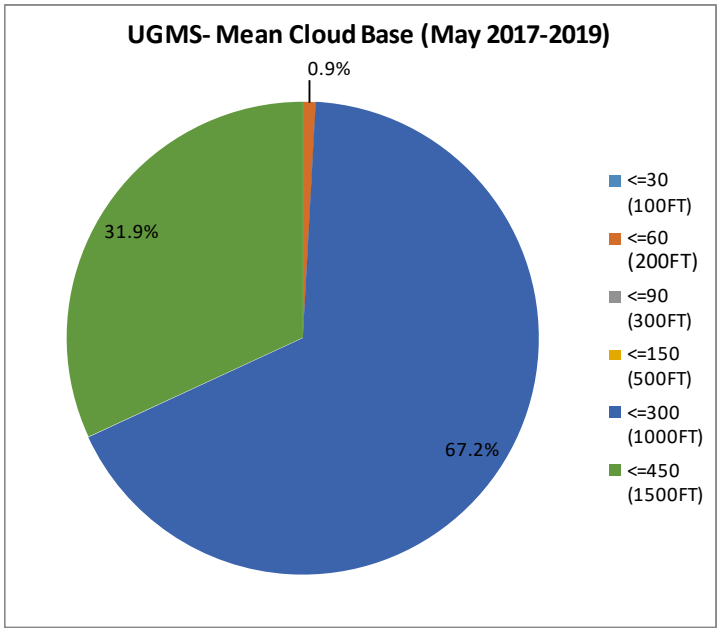
**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL C**

AERODROME: UGMS MONTH: MAY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | - | 3.10 | 7.75 |
| 0430 | - | - | - | - | 4.84 | 9.68 |
| 0500 | - | - | - | - | 3.15 | 9.45 |
| 0530 | - | 1.50 | 1.50 | 1.50 | 7.52 | 10.53 |
| 0600 | - | - | - | - | 8.09 | 11.76 |
| 0630 | - | - | - | - | 10.08 | 13.18 |
| 0700 | - | - | - | - | 10.40 | 12.00 |
| 0730 | - | - | - | - | 8.87 | 12.10 |
| 0800 | - | - | - | - | 7.14 | 10.32 |
| 0830 | - | - | - | - | 7.87 | 11.02 |
| 0900 | - | - | - | - | 5.47 | 8.59 |
| 0930 | - | - | - | - | 5.56 | 8.73 |
| 1000 | - | - | - | - | 6.45 | 9.68 |
| 1030 | - | - | - | - | 6.30 | 7.87 |
| 1100 | - | - | - | - | 6.45 | 8.06 |
| 1130 | - | - | - | - | 3.20 | 6.40 |
| 1200 | - | - | - | - | 4.88 | 4.88 |
| 1230 | - | - | - | - | 3.03 | 4.55 |
| 1300 | - | - | - | - | 3.23 | 3.23 |
| Mean | - | 0.08 | 0.08 | 0.08 | 6.09 | 8.94 |




In May, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

7. >1000FT and <= 1500FT – 31.9%
8. >500FT and <= 1000FT – 67.2%
9. >300FT and <= 500FT – not observed
10. >200FT and <= 300FT – not observed
11. >100FT and <= 200FT – 0.9%
12. <=100FT – not observed

In May, the mean percentage of cloud ceiling recorded above 1500 feet is 91.06% of the total amount of occurrences (See climatological table of May, Model C).

Three-year observation data on clouds revealed average occurrence probability of 0.08 percent of minimum cloud height of 200 feet and below (cloud amount BKN and OVC) (see climatological table of May, Model C).

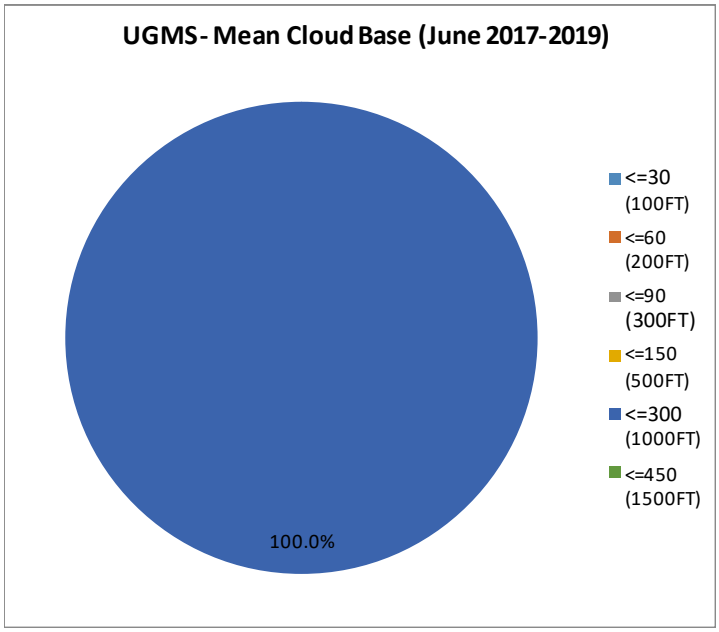
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGMS MONTH: JUNE PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1710 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | - | 6.56 | 6.56 |
| 0430 | - | - | - | - | 6.56 | 6.56 |
| 0500 | - | - | - | - | 7.38 | 7.38 |
| 0530 | - | - | - | - | 4.69 | 4.69 |
| 0600 | - | - | - | - | 4.88 | 4.88 |
| 0630 | - | - | - | - | 5.83 | 5.83 |
| 0700 | - | - | - | - | 4.10 | 4.10 |
| 0730 | - | - | - | - | 4.17 | 4.17 |
| 0800 | - | - | - | - | 2.52 | 2.52 |
| 0830 | - | - | - | - | 2.50 | 2.50 |
| 0900 | - | - | - | - | 2.52 | 2.52 |
| 0930 | - | - | - | - | 2.50 | 2.50 |
| 1000 | - | - | - | - | 2.44 | 2.44 |
| 1030 | - | - | - | - | 2.46 | 2.46 |
| 1100 | - | - | - | - | 1.63 | 1.63 |
| 1130 | - | - | - | - | 1.67 | 1.67 |
| 1200 | - | - | - | - | 1.60 | 1.60 |
| 1230 | - | - | - | - | 1.74 | 1.74 |
| 1300 | - | - | - | - | - | - |
| Mean | - | - | - | - | 3.46 | 3.46 |




In June, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1. >1000FT and <= 1500FT – not observed
2. >500FT and <= 1000FT – 100.0%
3. >300FT and <= 500FT – not observed
4. >200FT and <= 300FT – not observed
5. >100FT and <= 200FT – not observed
6. <=100FT – not observed

In June, the mean percentage of cloud ceiling recorded above 1500 feet is 96.54% of the total amount of occurrences (See climatological table of June, Model C).

Three-year observation data on clouds revealed average occurrence probability of 3.46 percent of minimum cloud height of 1000 feet and below (cloud amount BKN and OVC) (see climatological table of June, Model C).

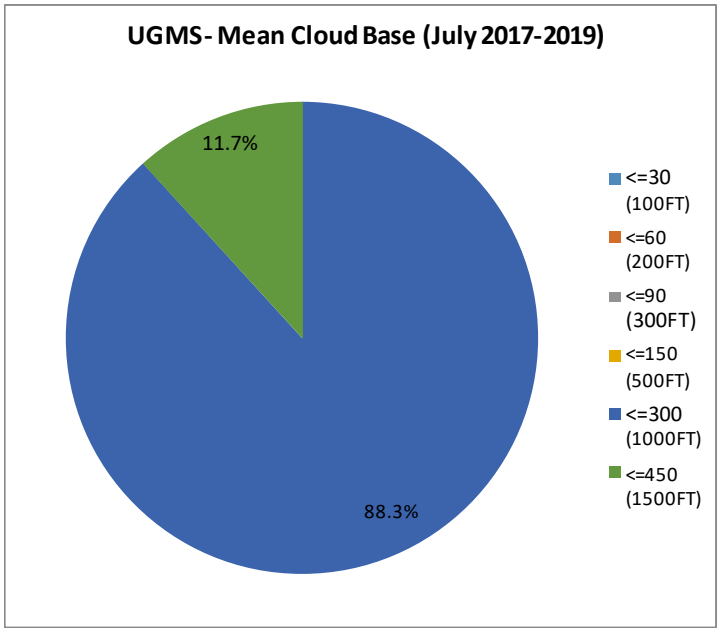
**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL C**

AERODROME: UGMS MONTH: JULY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | - | 5.30 | 5.30 |
| 0430 | - | - | - | - | 5.43 | 5.43 |
| 0500 | - | - | - | - | 3.23 | 3.23 |
| 0530 | - | - | - | - | 3.97 | 3.97 |
| 0600 | - | - | - | - | 3.85 | 3.85 |
| 0630 | - | - | - | - | 2.42 | 2.42 |
| 0700 | - | - | - | - | 1.57 | 1.57 |
| 0730 | - | - | - | - | 1.60 | 2.40 |
| 0800 | - | - | - | - | 0.76 | 1.52 |
| 0830 | - | - | - | - | 0.76 | 0.76 |
| 0900 | - | - | - | - | 0.80 | 1.60 |
| 0930 | - | - | - | - | - | - |
| 1000 | - | - | - | - | - | 0.79 |
| 1030 | - | - | - | - | - | - |
| 1100 | - | - | - | - | - | 0.80 |
| 1130 | - | - | - | - | - | - |
| 1200 | - | - | - | - | - | - |
| 1230 | - | - | - | - | - | - |
| 1300 | - | - | - | - | - | - |
| Mean | - | - | - | - | 1.56 | 1.77 |




In July, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1 >1000FT and <= 1500FT – 11.7%
2 >500FT and <= 1000FT – 88.3%
3 >300FT and <= 500FT – not observed
4 >200FT and <= 300FT – not observed
5 >100FT and <= 200FT – not observed
6 <=100FT – not observed

In July, the mean percentage of cloud ceiling recorded above 1500 feet is 98.23% of the total amount of occurrences (See climatological table of July, Model C).

Three-year observation data on clouds revealed average occurrence probability of 1.56 percent of minimum cloud height of 1000 feet and below (cloud amount BKN and OVC) (see climatological table of July, Model C).

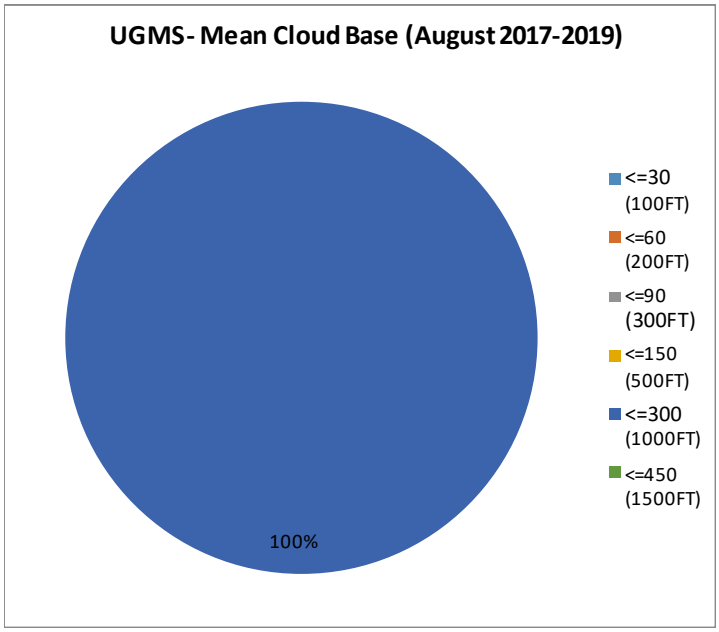
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGMS MONTH: AUGUST PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | - | - | - |
| 0430 | - | - | - | - | - | - |
| 0500 | - | - | - | - | - | - |
| 0530 | - | - | - | - | - | - |
| 0600 | - | - | - | - | - | - |
| 0630 | - | - | - | - | 1.02 | 1.02 |
| 0700 | - | - | - | - | 1.05 | 1.05 |
| 0730 | - | - | - | - | 1.03 | 1.03 |
| 0800 | - | - | - | - | - | - |
| 0830 | - | - | - | - | - | - |
| 0900 | - | - | - | - | - | - |
| 0930 | - | - | - | - | - | - |
| 1000 | - | - | - | - | - | - |
| 1030 | - | - | - | - | - | - |
| 1100 | - | - | - | - | - | - |
| 1130 | - | - | - | - | - | - |
| 1200 | - | - | - | - | - | - |
| 1230 | - | - | - | - | - | - |
| 1300 | - | - | - | - | - | - |
| Mean | - | - | - | - | 0.16 | 0.16 |




In August, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1 >1000FT and <= 1500FT – not observed
2 >500FT and <= 1000FT – 100.0%
3 >300FT and <= 500FT – not observed
4 >200FT and <= 300FT – not observed
5 >100FT and <= 200FT – not observed
6 <=100FT – not observed

In August, the mean percentage of cloud ceiling recorded above 1500 feet is 99.84% of the total amount of occurrences (See climatological table of August, Model C).

Three-year observation data on clouds revealed average occurrence probability of 0.16 percent of minimum cloud height of 1000 feet and below (cloud amount BKN and OVC) (see climatological table of August, Model C).

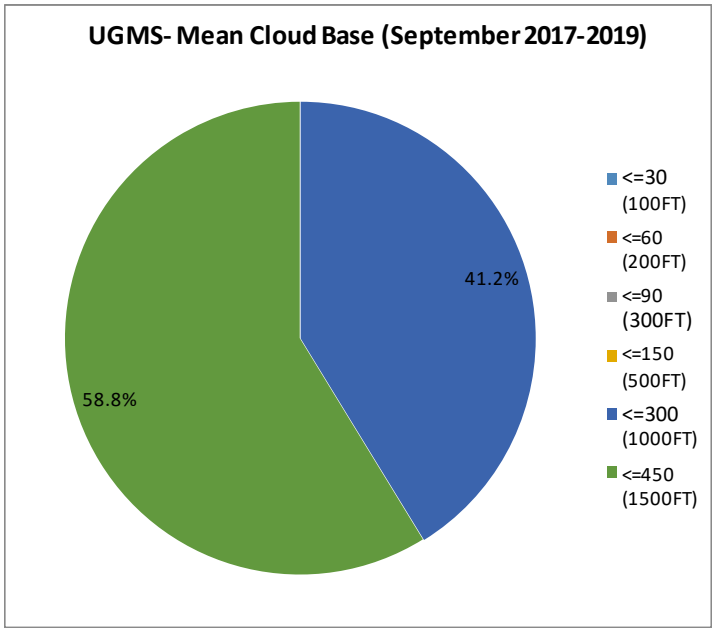
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGMS MONTH: SEPTEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1710 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | - | 1.60 | 1.60 |
| 0430 | - | - | - | - | 0.83 | 0.83 |
| 0500 | - | - | - | - | 0.79 | 1.59 |
| 0530 | - | - | - | - | 0.81 | 1.63 |
| 0600 | - | - | - | - | - | 0.78 |
| 0630 | - | - | - | - | 0.82 | 1.64 |
| 0700 | - | - | - | - | 0.81 | 0.81 |
| 0730 | - | - | - | - | - | - |
| 0800 | - | - | - | - | - | - |
| 0830 | - | - | - | - | - | 0.79 |
| 0900 | - | - | - | - | - | 0.82 |
| 0930 | - | - | - | - | - | 0.83 |
| 1000 | - | - | - | - | - | - |
| 1030 | - | - | - | - | - | 0.81 |
| 1100 | - | - | - | - | - | 1.63 |
| 1130 | - | - | - | - | - | - |
| 1200 | - | - | - | - | - | - |
| 1230 | - | - | - | - | - | - |
| 1300 | - | - | - | - | - | - |
| Mean | - | - | - | - | 0.30 | 0.72 |




In September, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1 >1000FT and <= 1500FT – 58.8%
2 >500FT and <= 1000FT – 41.2.3%
3 >300FT and <= 500FT – not observed
4 >200FT and <= 300FT – not observed
5 >100FT and <= 200FT – not observed
6 <=100FT – not observed

In September, the mean percentage of cloud ceiling recorded above 1500 feet is 99.28% of the total amount of occurrences (See climatological table of September, Model C).

Three-year observation data on clouds revealed average occurrence probability of 0.30 percent of minimum cloud height of 1000 feet and below (cloud amount BKN and OVC) (see climatological table of September, Model C).

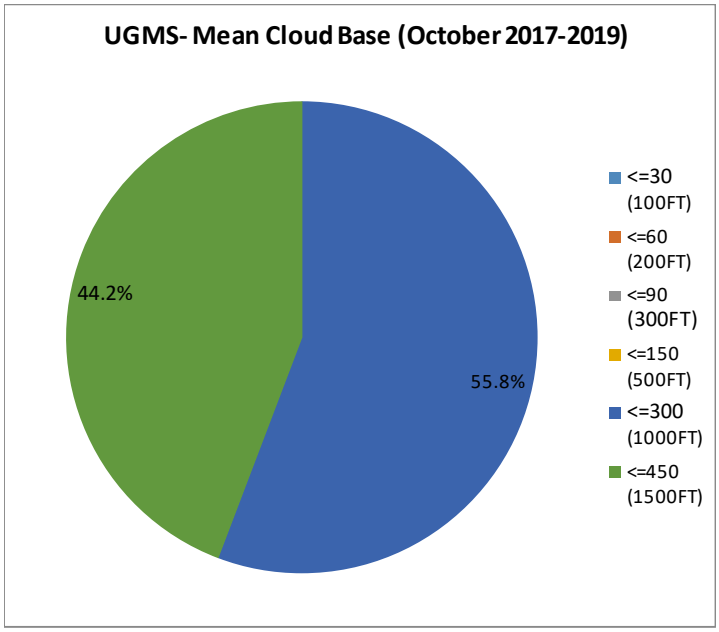
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGMS MONTH: OCTOBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | - | - | 2.38 |
| 0430 | - | - | - | - | - | 2.30 |
| 0500 | - | - | - | - | 1.18 | 3.53 |
| 0530 | - | - | - | - | 1.22 | 2.44 |
| 0600 | - | - | - | - | 1.20 | 2.41 |
| 0630 | - | - | - | - | 3.61 | 3.61 |
| 0700 | - | - | - | - | 1.22 | 2.44 |
| 0730 | - | - | - | - | 1.20 | 2.41 |
| 0800 | - | - | - | - | 2.44 | 3.66 |
| 0830 | - | - | - | - | 2.44 | 2.44 |
| 0900 | - | - | - | - | 1.20 | 2.41 |
| 0930 | - | - | - | - | 1.25 | 2.50 |
| 1000 | - | - | - | - | 1.19 | 1.19 |
| 1030 | - | - | - | - | 1.22 | 2.44 |
| 1100 | - | - | - | - | 2.44 | 2.44 |
| 1130 | - | - | - | - | - | 1.18 |
| 1200 | - | - | - | - | - | 1.22 |
| 1230 | - | - | - | - | 1.19 | 1.19 |
| 1300 | - | - | - | - | 1.18 | 1.18 |
| Mean | - | - | - | - | 1.27 | 2.28 |




In October, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1 >1000FT and <= 1500FT – 44.2%
2 >500FT and <= 1000FT – 55.8%
3 >300FT and <= 500FT – not observed
4 >200FT and <= 300FT – not observed
5 >100FT and <= 200FT – not observed
6 <=100FT – not observed

In October, the mean percentage of cloud ceiling recorded above 1500 feet is 97.72% of the total amount of occurrences (See climatological table of October, Model C).

Three-year observation data on clouds revealed average occurrence probability of 1.27 percent of minimum cloud height of 1000 feet and below (cloud amount BKN and OVC) (see climatological table of October, Model C).

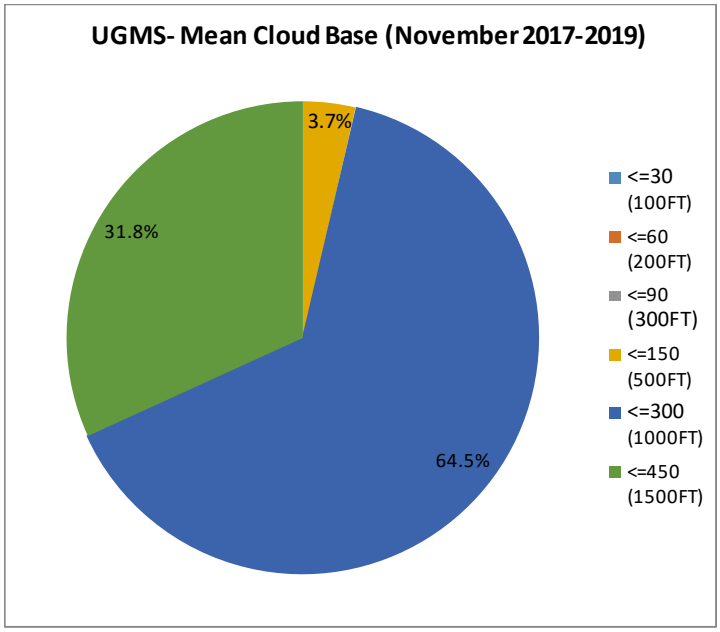
**AERODROME CLIMATOLOGICAL SUMMARY TABULAR FORM** **MODEL C**

AERODROME: UGMS MONTH: NOVEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1710 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | - | 4.60 | 6.90 |
| 0430 | - | - | - | - | 4.71 | 7.06 |
| 0500 | - | - | - | - | 5.95 | 9.52 |
| 0530 | - | - | - | - | 5.95 | 7.14 |
| 0600 | - | - | - | - | 3.45 | 5.75 |
| 0630 | - | - | - | - | 4.82 | 6.02 |
| 0700 | - | - | - | 1.19 | 7.14 | 10.71 |
| 0730 | - | - | - | 1.19 | 7.14 | 10.71 |
| 0800 | - | - | - | 1.22 | 6.10 | 10.98 |
| 0830 | - | - | - | 1.18 | 5.88 | 9.41 |
| 0900 | - | - | - | - | 5.88 | 10.59 |
| 0930 | - | - | - | - | 4.76 | 8.33 |
| 1000 | - | - | - | - | 4.94 | 6.17 |
| 1030 | - | - | - | - | 3.61 | 7.23 |
| 1100 | - | - | - | - | 3.61 | 3.61 |
| 1130 | - | - | - | - | 4.71 | 4.71 |
| 1200 | - | - | - | - | 2.41 | 2.41 |
| 1230 | - | - | - | - | 2.38 | 2.38 |
| 1300 | - | - | - | - | 1.14 | 1.14 |
| Mean | - | - | - | 0.25 | 4.69 | 6.88 |




In November, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1 >1000FT and <= 1500FT – 31.8%
2 >500FT and <= 1000FT – 64.5%
3 >300FT and <= 500FT – 3.7%
4 >200FT and <= 300FT – not observed
5 >100FT and <= 200FT – not observed
6 <=100FT – not observed

In November, the mean percentage of cloud ceiling recorded above 1500 feet is 93.12% of the total amount of occurrences (See climatological table of November, Model C).

Three-year observation data on clouds revealed average occurrence probability of 0.25 percent of minimum cloud height of 500 feet and below (cloud amount BKN and OVC) (see climatological table of November, Model C).

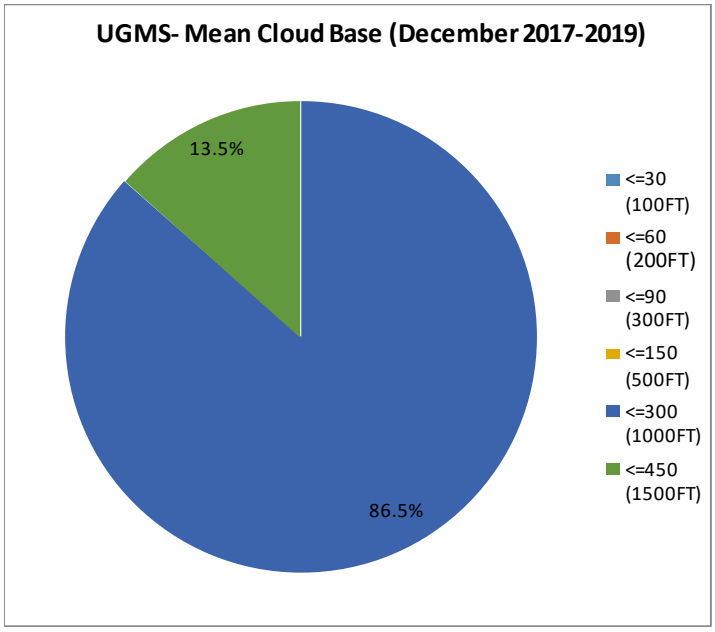
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL C**
**TABULAR FORM**

AERODROME: UGMS MONTH: DECEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 1767 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF THE HEIGHT OF THE BASE (IN METERS/FEET) OF THE LOWEST CLOUD LAYER OF BKN OR OVC EXTENT BELOW SPECIFIED VALUES AT SPECIFIED TIMES | | | | | | |
|---|---|---|---|---|---|---|
| TIME (UTC) | $H_S$ | | | | | |
| | <=30 (100FT) | <=60 (200FT) | <=90 (300FT) | <=150 (500FT) | <=300 (1000FT) | <=450 (1500FT) |
| 0400 | - | - | - | - | 8.05 | 9.20 |
| 0430 | - | - | - | - | 8.24 | 8.24 |
| 0500 | - | - | - | - | 7.14 | 8.33 |
| 0530 | - | - | - | - | 4.55 | 5.68 |
| 0600 | - | - | - | - | 5.62 | 5.62 |
| 0630 | - | - | - | - | 5.88 | 5.88 |
| 0700 | - | - | - | - | 6.90 | 8.05 |
| 0730 | - | - | - | - | 7.06 | 8.24 |
| 0800 | - | - | - | - | 8.05 | 10.34 |
| 0830 | - | - | - | - | 9.30 | 10.47 |
| 0900 | - | - | - | - | 5.95 | 8.33 |
| 0930 | - | - | - | - | 8.33 | 10.71 |
| 1000 | - | - | - | - | 7.06 | 8.24 |
| 1030 | - | - | - | - | 7.14 | 7.14 |
| 1100 | - | - | - | - | 6.74 | 7.87 |
| 1130 | - | - | - | - | 7.23 | 8.43 |
| 1200 | - | - | - | - | 6.02 | 7.23 |
| 1230 | - | - | - | - | 4.82 | 6.02 |
| 1300 | - | - | - | - | 3.61 | 3.61 |
| Mean | - | - | - | - | 6.72 | 7.77 |




In December, the percentage of the observed occurrences of clouds (BKN or OVC extents only) at the specified heights, below 1500 feet is as follows:

1 >1000FT and <= 1500FT – 13.5%
2 >500FT and <= 1000FT – 86.5%
3 >300FT and <= 500FT – not observed
4 >200FT and <= 300FT – not observed
5 >100FT and <= 200FT – not observed
6 <=100FT – not observed

In December, the mean percentage of cloud ceiling recorded above 1500 feet is 93.23% of the total amount of occurrences (See climatological table of December, Model C).

Three-year observation data on clouds revealed average occurrence probability of 6.72 percent of minimum cloud height of 1000 feet and below (cloud amount BKN and OVC) (see climatological table of December, Model C).

## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

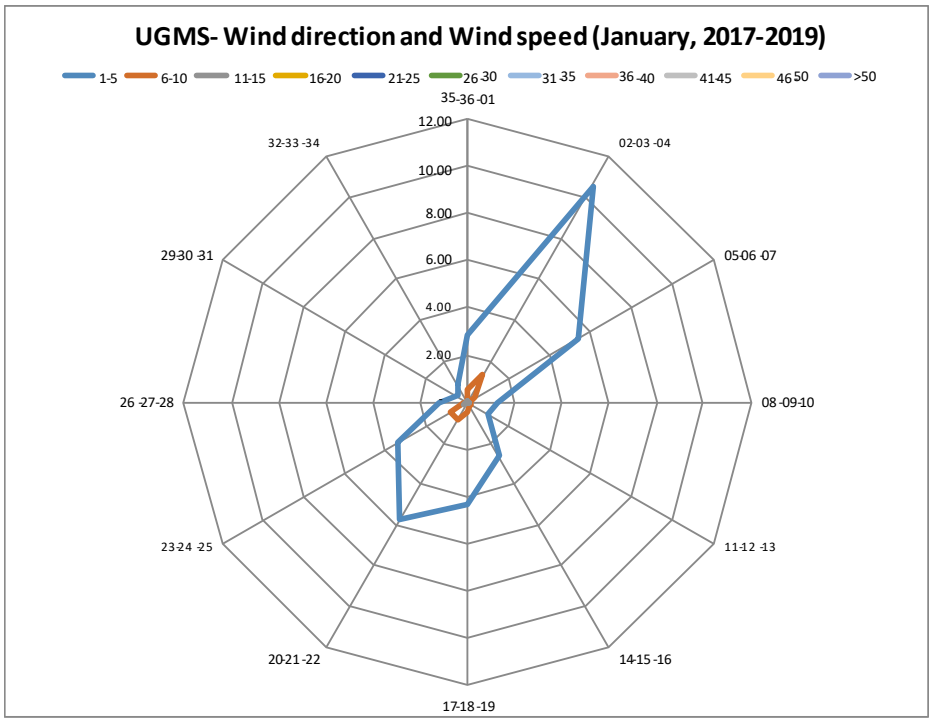
AERODROME: UGMS MONTH: JANUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES

| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 2.13 |
| VARIABLE | 52.48 | 0.26 | - | - | - | - | - | - | - | - | - | 52.74 |
| 35-36-01 | 2.84 | 0.54 | - | - | - | - | - | - | - | - | - | 3.37 |
| 02-03-04 | 10.55 | 1.33 | 0.03 | - | - | - | - | - | - | - | - | 11.91 |
| 05-06-07 | 5.44 | 0.37 | - | - | - | - | - | - | - | - | - | 5.81 |
| 08-09-10 | 1.25 | 0.09 | - | - | - | - | - | - | - | - | - | 1.33 |
| 11-12-13 | 0.99 | 0.20 | - | - | - | - | - | - | - | - | - | 1.19 |
| 14-15-16 | 2.64 | 0.20 | 0.06 | - | - | - | - | - | - | - | - | 2.89 |
| 17-18-19 | 4.31 | 0.43 | - | - | - | - | - | - | - | - | - | 4.73 |
| 20-21-22 | 5.73 | 0.88 | 0.06 | 0.03 | - | - | - | - | - | - | - | 6.69 |
| 23-24-25 | 3.40 | 0.88 | 0.20 | 0.03 | - | - | - | - | - | - | - | 4.51 |
| 26-27-28 | 1.19 | 0.14 | - | - | - | - | - | - | - | - | - | 1.33 |
| 29-30-31 | 0.48 | - | - | - | - | - | - | - | - | - | - | 0.48 |
| 32-33-34 | 0.88 | - | - | - | - | - | - | - | - | - | - | 0.88 |
| TOTAL | 92.17 | 5.30 | 0.34 | 0.06 | - | - | - | - | - | - | - | 100 |




**CALM**
2.13%

**VARIABLE**
52.74%

The prevailing wind directions of 020º-070º frequency of occurrence is 17.72% and that of 200º-250º.directions is 11.42%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 97.47%) according to “Beaufort wind force scale”.

The maximum wind of 16-20 knots is observed within the 200º-250º sectors (frequency of occurrence 0.06%).

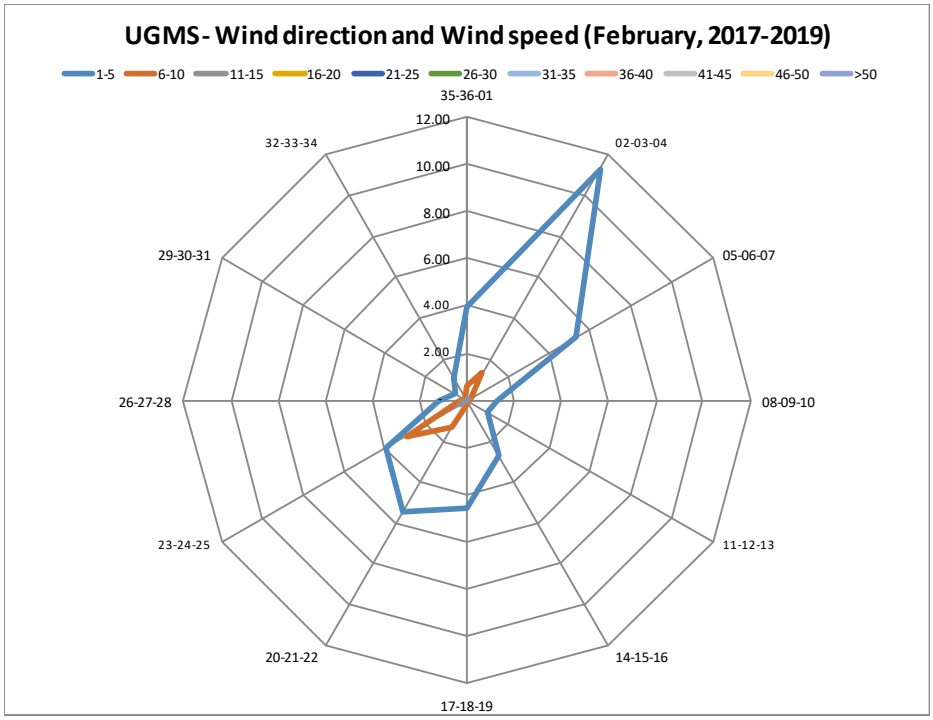
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: FEBRUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4032 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 2.08 |
| VARIABLE | 47.86 | 0.10 | - | - | - | - | - | - | - | - | - | 47.96 |
| 35-36-01 | 3.93 | 0.61 | - | - | - | - | - | - | - | - | - | 4.54 |
| 02-03-04 | 11.27 | 1.34 | 0.03 | - | - | - | - | - | - | - | - | 12.64 |
| 05-06-07 | 5.30 | 0.15 | 0.03 | - | - | - | - | - | - | - | - | 5.47 |
| 08-09-10 | 1.24 | 0.03 | - | - | - | - | - | - | - | - | - | 1.27 |
| 11-12-13 | 1.04 | 0.03 | - | - | - | - | - | - | - | - | - | 1.06 |
| 14-15-16 | 2.71 | - | - | - | - | - | - | - | - | - | - | 2.71 |
| 17-18-19 | 4.56 | 0.18 | - | - | - | - | - | - | - | - | - | 4.74 |
| 20-21-22 | 5.47 | 1.34 | 0.08 | - | - | - | - | - | - | - | - | 6.89 |
| 23-24-25 | 3.95 | 2.99 | 0.41 | 0.03 | - | - | - | - | - | - | - | 7.37 |
| 26-27-28 | 1.17 | 0.30 | 0.03 | - | - | - | - | - | - | - | - | 1.49 |
| 29-30-31 | 0.58 | 0.03 | - | - | - | - | - | - | - | - | - | 0.61 |
| 32-33-34 | 1.09 | 0.08 | - | - | - | - | - | - | - | - | - | 1.17 |
| TOTAL | 90.17 | 7.17 | 0.56 | 0.03 | - | - | - | - | - | - | - | 100 |




**CALM**
2.08%

**VARIABLE**
47.96%

The prevailing wind directions of 020º-070º frequency of occurrence is 18.11% and that of 200º-250º.directions is 14.26%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 97.34%) according to “Beaufort wind force scale”.

The maximum wind of 16-20 knots is observed within the 230º-250º sectors (frequency of occurrence 0.03%).

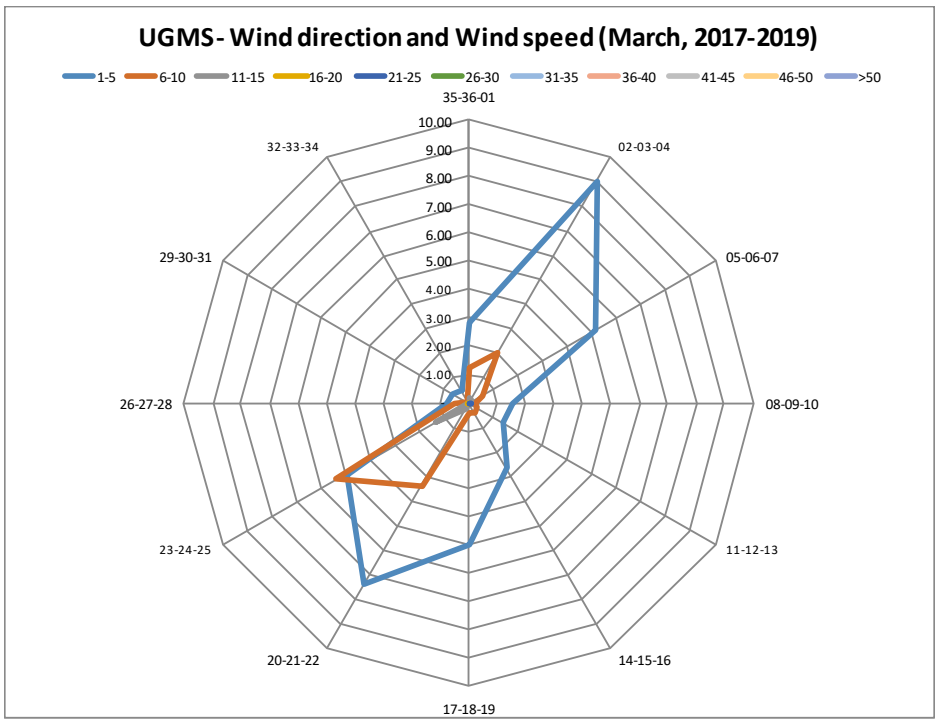
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: MARCH PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.23 |
| VARIABLE | 39.80 | 0.32 | - | - | - | - | - | - | - | - | - | 40.12 |
| 35-36-01 | 2.80 | 1.23 | 0.17 | - | - | - | - | - | - | - | - | 4.19 |
| 02-03-04 | 9.03 | 2.00 | 0.11 | - | - | - | - | - | - | - | - | 11.14 |
| 05-06-07 | 5.14 | 0.52 | 0.02 | - | - | - | - | - | - | - | - | 5.68 |
| 08-09-10 | 1.53 | 0.19 | 0.04 | - | - | - | - | - | - | - | - | 1.76 |
| 11-12-13 | 1.40 | 0.26 | - | - | 0.02 | - | - | - | - | - | - | 1.68 |
| 14-15-16 | 2.62 | 0.39 | 0.02 | - | - | - | - | - | - | - | - | 3.03 |
| 17-18-19 | 5.01 | 0.37 | - | - | - | - | - | - | - | - | - | 5.38 |
| 20-21-22 | 7.40 | 3.40 | 0.30 | - | - | - | - | - | - | - | - | 11.09 |
| 23-24-25 | 5.03 | 5.42 | 1.38 | 0.09 | - | - | - | - | - | - | - | 11.91 |
| 26-27-28 | 0.82 | 0.49 | 0.09 | 0.02 | - | - | - | - | - | - | - | 1.42 |
| 29-30-31 | 0.67 | 0.02 | - | - | - | - | - | - | - | - | - | 0.69 |
| 32-33-34 | 0.47 | 0.19 | 0.02 | - | - | - | - | - | - | - | - | 0.69 |
| TOTAL | 81.70 | 14.79 | 2.15 | 0.11 | 0.02 | - | - | - | - | - | - | 100 |




**CALM**
1.23%

**VARIABLE**
40.12%

The prevailing wind directions of 200º-250º.directions is 23.00%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 96.49%) according to “Beaufort wind force scale”.

The maximum wind of 21-25 knots is observed within the 110º-130º sectors (frequency of occurrence 0.02%).

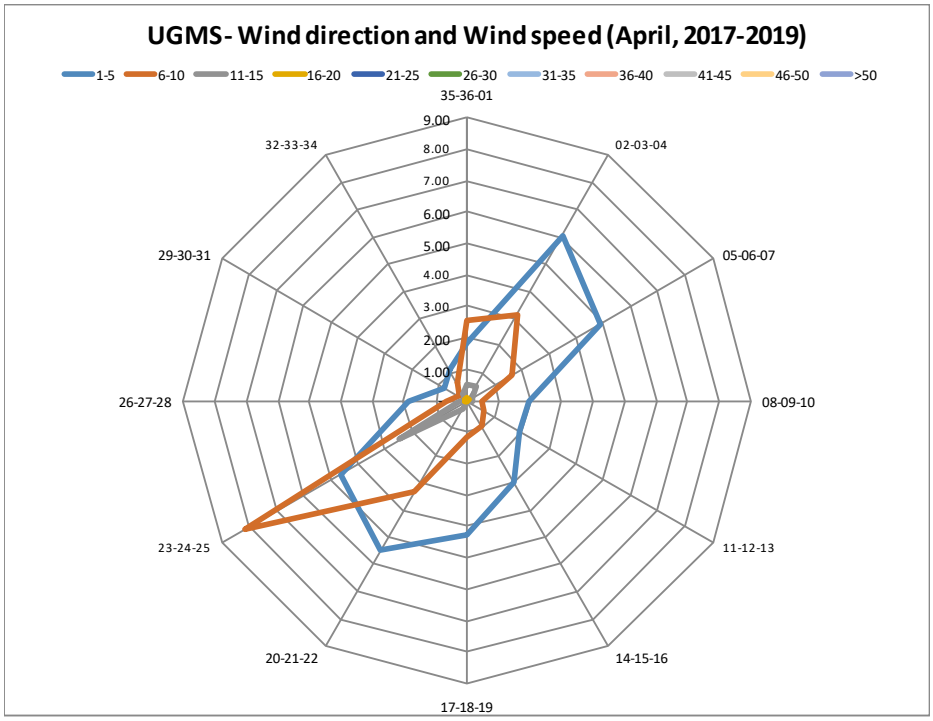
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: APRIL PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 0.02 |
| VARIABLE | 31.84 | 1.43 | - | - | - | - | - | - | - | - | - | 33.27 |
| 35-36-01 | 1.83 | 2.55 | 0.52 | 0.10 | - | - | - | - | - | - | - | 5.00 |
| 02-03-04 | 6.09 | 3.14 | 0.57 | - | - | - | - | - | - | - | - | 9.80 |
| 05-06-07 | 4.90 | 1.62 | 0.21 | 0.05 | - | - | - | - | - | - | - | 6.78 |
| 08-09-10 | 1.98 | 0.50 | 0.17 | - | - | - | - | - | - | - | - | 2.64 |
| 11-12-13 | 1.90 | 0.59 | 0.12 | - | - | - | - | - | - | - | - | 2.62 |
| 14-15-16 | 3.02 | 0.90 | - | - | - | - | - | - | - | - | - | 3.93 |
| 17-18-19 | 4.28 | 1.14 | 0.05 | - | - | - | - | - | - | - | - | 5.47 |
| 20-21-22 | 5.50 | 3.31 | 0.29 | 0.07 | - | - | - | - | - | - | - | 9.16 |
| 23-24-25 | 4.64 | 8.14 | 2.50 | 0.10 | - | - | - | - | - | - | - | 15.37 |
| 26-27-28 | 1.86 | 0.67 | 0.21 | - | - | - | - | - | - | - | - | 2.74 |
| 29-30-31 | 0.83 | 0.26 | - | - | - | - | - | - | - | - | - | 1.09 |
| 32-33-34 | 1.14 | 0.64 | 0.26 | 0.05 | - | - | - | - | - | - | - | 2.09 |
| TOTAL | 69.82 | 24.89 | 4.90 | 0.36 | - | - | - | - | - | - | - | 100 |




**CALM**
0.02%

**VARIABLE**
33.27%

The prevailing wind directions of 200º-250º.directions is 24.53%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 94.71%) according to “Beaufort wind force scale”.

The maximum wind of 16-20 knots is observed within the 200º-250º sectors (frequency of occurrence 0.17%) and 350º-010º sectors (frequency of occurrence 0.10%).

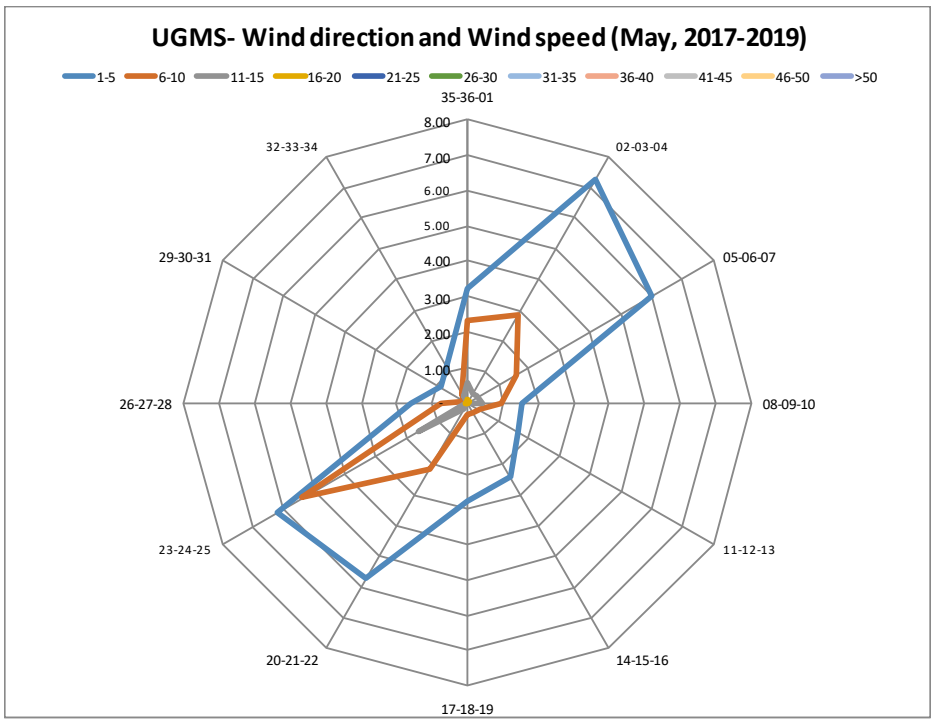
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: MAY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 0.12 |
| VARIABLE | 36.48 | 1.38 | 0.02 | - | - | - | - | - | - | - | - | 37.88 |
| 35-36-01 | 3.23 | 2.31 | 0.58 | 0.08 | - | - | - | - | - | - | - | 6.20 |
| 02-03-04 | 7.25 | 2.86 | 0.31 | - | - | - | - | - | - | - | - | 10.42 |
| 05-06-07 | 6.01 | 1.59 | 0.33 | 0.02 | - | - | - | - | - | - | - | 7.95 |
| 08-09-10 | 1.56 | 0.93 | 0.41 | - | - | - | - | - | - | - | - | 2.90 |
| 11-12-13 | 1.65 | 0.41 | 0.06 | - | - | - | - | - | - | - | - | 2.12 |
| 14-15-16 | 2.41 | 0.29 | - | 0.02 | - | - | - | - | - | - | - | 2.72 |
| 17-18-19 | 2.80 | 0.33 | 0.02 | 0.02 | - | - | - | - | - | - | - | 3.17 |
| 20-21-22 | 5.76 | 2.16 | 0.23 | 0.04 | - | - | - | - | - | - | - | 8.19 |
| 23-24-25 | 6.22 | 5.37 | 1.61 | 0.02 | - | - | - | - | - | - | - | 13.22 |
| 26-27-28 | 1.59 | 0.74 | 0.06 | - | - | - | - | - | - | - | - | 2.39 |
| 29-30-31 | 0.89 | 0.12 | - | - | - | - | - | - | - | - | - | 1.01 |
| 32-33-34 | 1.19 | 0.31 | 0.21 | 0.02 | - | - | - | - | - | - | - | 1.73 |
| TOTAL | 77.03 | 18.79 | 3.83 | 0.23 | - | - | - | - | - | - | - | 100 |




**CALM**
0.12%

**VARIABLE**
37.88%

The prevailing wind directions of 020º-070º frequency of occurrence is 18.37% and that of 200º-250º.directions is 21.41%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 95.82%) according to “Beaufort wind force scale”.

The maximum wind of 16-20 knots is observed within the 170º-250º sectors (frequency of occurrence 0.08%) and 350º-010º sectors (frequency of occurrence 0.08%).

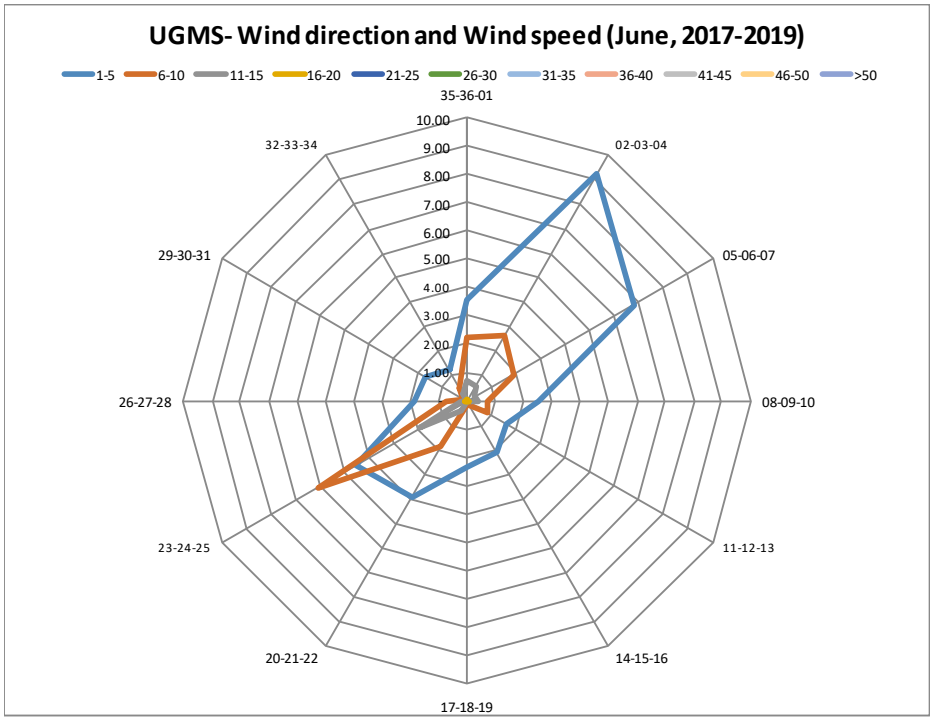
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: JUNE PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 0.17 |
| VARIABLE | 34.52 | 0.67 | 0.02 | - | - | - | - | - | - | - | - | 35.20 |
| 35-36-01 | 3.60 | 2.22 | 0.73 | 0.08 | - | - | - | - | - | - | - | 6.63 |
| 02-03-04 | 9.23 | 2.66 | 0.58 | - | - | - | - | - | - | - | - | 12.48 |
| 05-06-07 | 6.80 | 1.87 | 0.33 | - | - | - | - | - | - | - | - | 9.00 |
| 08-09-10 | 2.54 | 0.71 | 0.37 | - | - | - | - | - | - | - | - | 3.62 |
| 11-12-13 | 1.60 | 0.81 | 0.06 | 0.04 | - | - | - | - | - | - | - | 2.52 |
| 14-15-16 | 2.12 | 0.17 | - | - | - | - | - | - | - | - | - | 2.29 |
| 17-18-19 | 2.31 | 0.19 | - | - | - | - | - | - | - | - | - | 2.50 |
| 20-21-22 | 3.95 | 1.85 | 0.40 | 0.06 | - | - | - | - | - | - | - | 6.26 |
| 23-24-25 | 4.55 | 6.09 | 1.93 | 0.10 | - | - | - | - | - | - | - | 12.68 |
| 26-27-28 | 1.85 | 0.75 | 0.19 | - | - | - | - | - | - | - | - | 2.79 |
| 29-30-31 | 1.68 | 0.17 | - | - | - | - | - | - | - | - | - | 1.85 |
| 32-33-34 | 1.23 | 0.46 | 0.31 | 0.02 | - | - | - | - | - | - | - | 2.02 |
| TOTAL | 75.98 | 18.61 | 4.93 | 0.31 | - | - | - | - | - | - | - | 100 |




**CALM**
0.17%

**VARIABLE**
35.20%

The prevailing wind directions of 020º-070º frequency of occurrence is 21.48% and that of 200º-250º.directions is 18.94%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 94.59%) according to “Beaufort wind force scale”.

The maximum wind of 16-20 knots is observed within the 200º-250º sectors (frequency of occurrence 0.16%) and 350º-010º sectors (frequency of occurrence 0.08%).

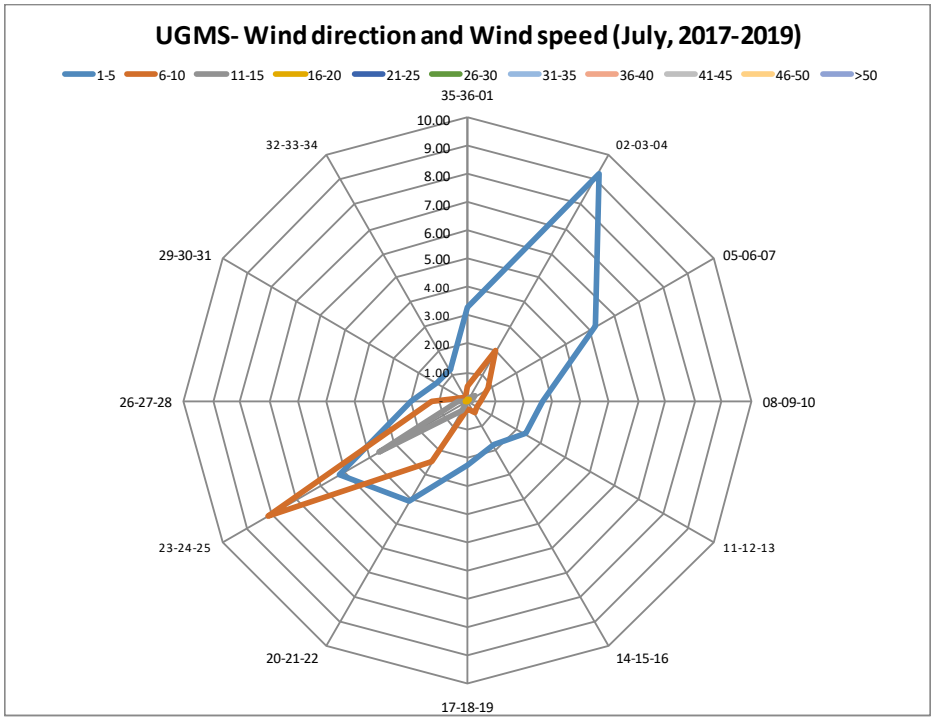
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: JULY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 0.04 |
| VARIABLE | 36.07 | 0.54 | - | - | - | - | - | - | - | - | - | 36.61 |
| 35-36-01 | 3.26 | 0.52 | 0.06 | 0.04 | - | - | - | - | - | - | - | 3.88 |
| 02-03-04 | 9.30 | 2.01 | 0.10 | 0.04 | - | - | - | - | - | - | - | 11.45 |
| 05-06-07 | 5.25 | 0.87 | 0.26 | - | - | - | - | - | - | - | - | 6.38 |
| 08-09-10 | 2.64 | 0.48 | 0.12 | - | - | - | - | - | - | - | - | 3.24 |
| 11-12-13 | 2.40 | 0.42 | 0.02 | - | - | - | - | - | - | - | - | 2.84 |
| 14-15-16 | 1.81 | 0.48 | - | - | - | - | - | - | - | - | - | 2.29 |
| 17-18-19 | 2.27 | 0.30 | - | - | - | - | - | - | - | - | - | 2.58 |
| 20-21-22 | 4.13 | 2.52 | 0.38 | 0.08 | - | - | - | - | - | - | - | 7.11 |
| 23-24-25 | 5.17 | 8.19 | 3.62 | 0.04 | - | - | - | - | - | - | - | 17.03 |
| 26-27-28 | 1.99 | 1.31 | 0.34 | - | - | - | - | - | - | - | - | 3.64 |
| 29-30-31 | 1.25 | 0.18 | - | - | - | - | - | - | - | - | - | 1.43 |
| 32-33-34 | 1.27 | 0.14 | 0.02 | 0.04 | - | - | - | - | - | - | - | 1.47 |
| TOTAL | 76.81 | 17.98 | 4.93 | 0.24 | - | - | - | - | - | - | - | 100 |




**CALM**
0.04%

**VARIABLE**
36.61%

The prevailing wind directions of 020º-070º frequency of occurrence is 17.83% and that of 200º-250º.directions is 24.14%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 94.79%) according to “Beaufort wind force scale”.

The maximum wind of 16-20 knots is observed within the 200º-250º sectors (frequency of occurrence 0.12%).

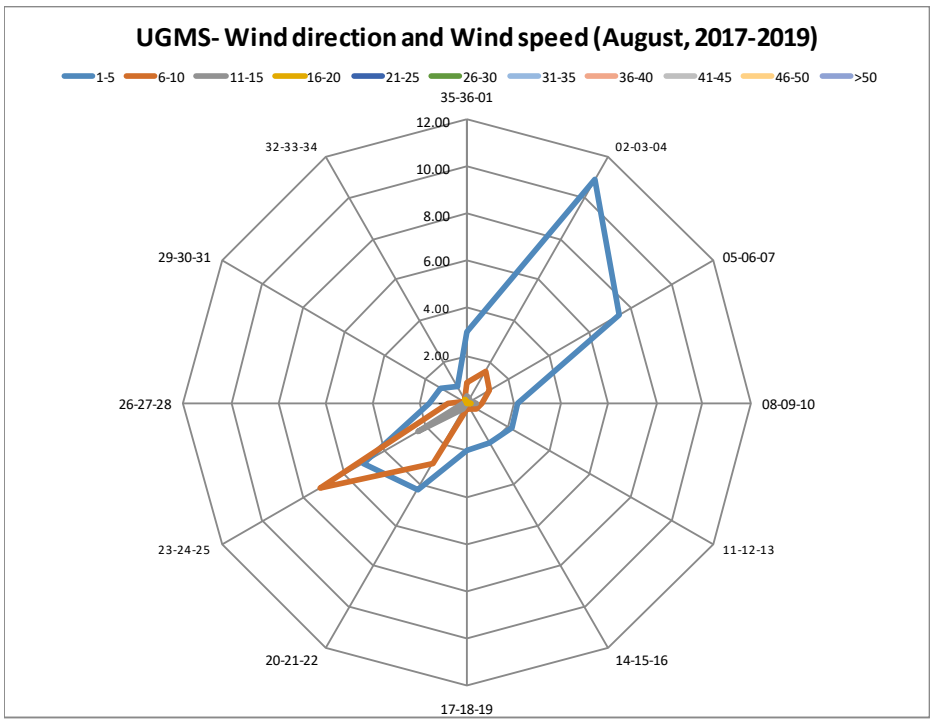
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: AUGUST PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 0.12 |
| VARIABLE | 35.29 | 0.95 | 0.04 | - | - | - | - | - | - | - | - | 36.28 |
| 35-36-01 | 3.00 | 0.85 | 0.26 | 0.04 | - | - | - | - | - | - | - | 4.16 |
| 02-03-04 | 10.91 | 1.57 | 0.22 | - | - | - | - | - | - | - | - | 12.70 |
| 05-06-07 | 7.42 | 1.09 | 0.18 | - | - | - | - | - | - | - | - | 8.69 |
| 08-09-10 | 2.13 | 0.68 | 0.36 | 0.12 | 0.02 | - | - | - | - | - | - | 3.30 |
| 11-12-13 | 2.23 | 0.46 | 0.06 | - | - | - | - | - | - | - | - | 2.74 |
| 14-15-16 | 1.99 | 0.34 | - | - | - | - | - | - | - | - | - | 2.33 |
| 17-18-19 | 2.01 | 0.26 | 0.02 | - | - | - | - | - | - | - | - | 2.29 |
| 20-21-22 | 4.25 | 2.94 | 0.32 | 0.02 | - | - | - | - | - | - | - | 7.53 |
| 23-24-25 | 5.07 | 7.16 | 2.41 | 0.02 | - | - | - | - | - | - | - | 14.65 |
| 26-27-28 | 1.61 | 0.80 | 0.16 | - | - | - | - | - | - | - | - | 2.56 |
| 29-30-31 | 1.23 | 0.10 | 0.02 | - | - | - | - | - | - | - | - | 1.35 |
| 32-33-34 | 0.78 | 0.22 | 0.14 | 0.16 | - | - | - | - | - | - | - | 1.29 |
| TOTAL | 77.91 | 17.42 | 4.17 | 0.36 | 0.02 | - | - | - | - | - | - | 100 |




**CALM**
0.12%

**VARIABLE**
36.28%

The prevailing wind directions of 020º-070º frequency of occurrence is 21.39% and that of 200º-250º.directions is 22.18%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 95.33%) according to “Beaufort wind force scale”.

The maximum wind of 21-25 knots is observed within the 080º-100º sectors (frequency of occurrence 0.02%).

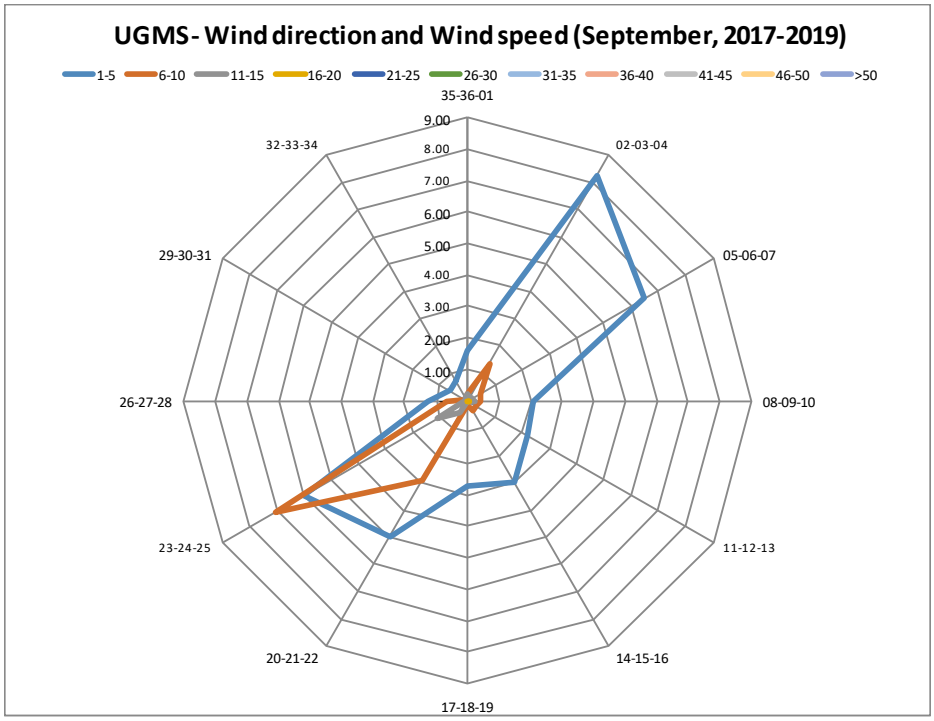
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: SEPTEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 0.29 |
| VARIABLE | 42.77 | 0.36 | 0.05 | - | - | - | - | - | - | - | - | 43.18 |
| 35-36-01 | 1.55 | 0.20 | 0.25 | - | - | - | - | - | - | - | - | 2.00 |
| 02-03-04 | 8.22 | 1.37 | 0.11 | - | - | - | - | - | - | - | - | 9.71 |
| 05-06-07 | 6.51 | 0.47 | 0.16 | - | - | - | - | - | - | - | - | 7.14 |
| 08-09-10 | 2.09 | 0.43 | 0.23 | 0.02 | - | - | - | - | - | - | - | 2.77 |
| 11-12-13 | 2.23 | 0.34 | 0.11 | - | - | - | - | - | - | - | - | 2.68 |
| 14-15-16 | 3.00 | 0.34 | - | - | - | - | - | - | - | - | - | 3.33 |
| 17-18-19 | 2.70 | 0.16 | - | - | - | - | - | - | - | - | - | 2.86 |
| 20-21-22 | 4.95 | 2.88 | 0.41 | - | - | - | - | - | - | - | - | 8.24 |
| 23-24-25 | 6.01 | 7.07 | 1.10 | - | - | - | - | - | - | - | - | 14.19 |
| 26-27-28 | 1.28 | 0.63 | 0.14 | - | - | - | - | - | - | - | - | 2.05 |
| 29-30-31 | 0.65 | 0.02 | - | - | - | - | - | - | - | - | - | 0.68 |
| 32-33-34 | 0.72 | 0.07 | 0.09 | - | - | - | - | - | - | - | - | 0.88 |
| TOTAL | 82.70 | 14.35 | 2.64 | 0.02 | - | - | - | - | - | - | - | 100 |




**CALM**
0.29%

**VARIABLE**
43.18%

The prevailing wind directions of 200º-250º frequency of occurrence is 22.43%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 97.05%) according to “Beaufort wind force scale”.

The maximum wind of 16-20 knots is observed within the 080º-100º sectors (frequency of occurrence 0.02%).

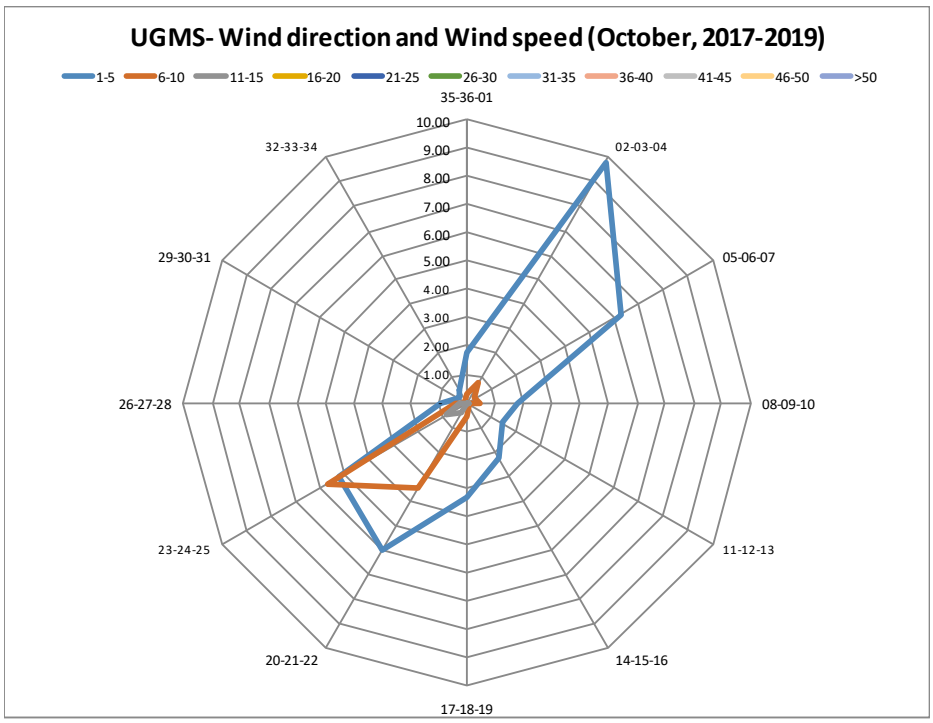
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: OCTOBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 0.24 |
| VARIABLE | 46.15 | 0.29 | - | - | - | - | - | - | - | - | - | 46.44 |
| 35-36-01 | 1.76 | 0.34 | - | - | - | - | - | - | - | - | - | 2.10 |
| 02-03-04 | 9.76 | 0.82 | - | - | - | - | - | - | - | - | - | 10.57 |
| 05-06-07 | 6.26 | 0.26 | - | - | - | - | - | - | - | - | - | 6.52 |
| 08-09-10 | 1.81 | 0.42 | 0.05 | - | - | - | - | - | - | - | - | 2.29 |
| 11-12-13 | 1.47 | 0.08 | - | - | - | - | - | - | - | - | - | 1.55 |
| 14-15-16 | 2.29 | 0.16 | - | - | - | - | - | - | - | - | - | 2.45 |
| 17-18-19 | 3.37 | 0.47 | - | - | - | - | - | - | - | - | - | 3.84 |
| 20-21-22 | 6.00 | 3.44 | 0.39 | - | - | - | - | - | - | - | - | 9.83 |
| 23-24-25 | 5.18 | 5.71 | 0.87 | - | - | - | - | - | - | - | - | 11.75 |
| 26-27-28 | 0.89 | 0.39 | 0.26 | - | - | - | - | - | - | - | - | 1.55 |
| 29-30-31 | 0.32 | - | - | - | - | - | - | - | - | - | - | 0.32 |
| 32-33-34 | 0.50 | 0.05 | - | - | - | - | - | - | - | - | - | 0.55 |
| TOTAL | 85.75 | 12.44 | 1.58 | - | - | - | - | - | - | - | - | 100 |




**CALM**
0.24%

**VARIABLE**
46.44%

The prevailing wind directions of 020º-070º frequency of occurrence is 17.09% and that of 200º-250º.directions is 21.58%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 98.19) according to “Beaufort wind force scale”.

The maximum wind of 11-15 knots is observed within the 200º-250º sectors (frequency of occurrence 1.26%).

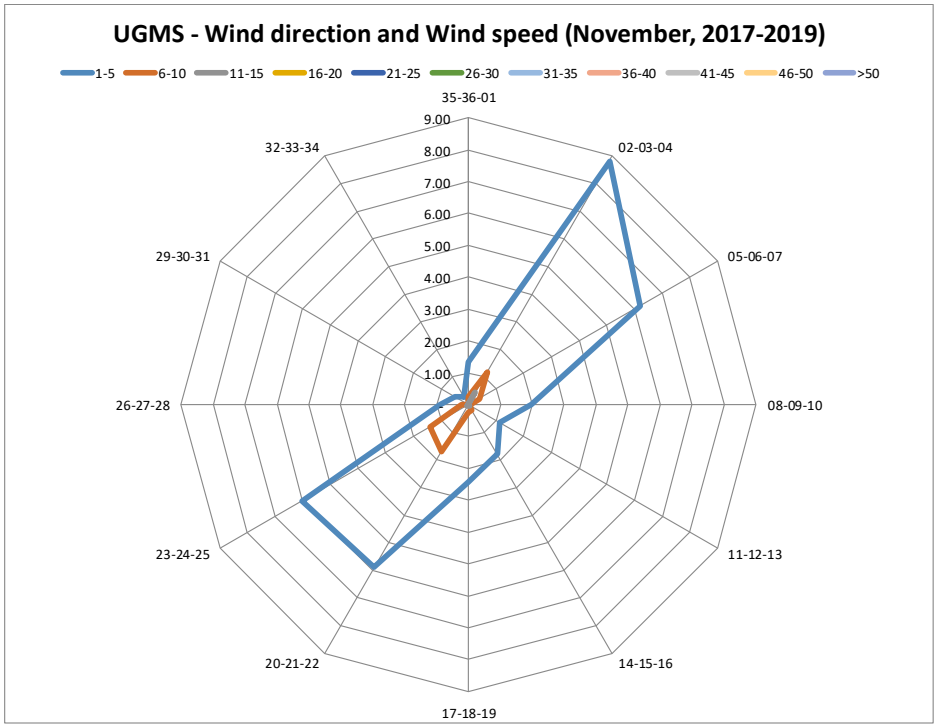
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: NOVEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 0.73 |
| VARIABLE | 55.60 | 0.13 | - | - | - | - | - | - | - | - | - | 55.73 |
| 35-36-01 | 1.35 | 0.26 | 0.05 | - | - | - | - | - | - | - | - | 1.66 |
| 02-03-04 | 8.83 | 1.17 | 0.44 | - | - | - | - | - | - | - | - | 10.44 |
| 05-06-07 | 6.21 | 0.39 | - | - | - | - | - | - | - | - | - | 6.60 |
| 08-09-10 | 1.95 | 0.08 | - | - | - | - | - | - | - | - | - | 2.03 |
| 11-12-13 | 1.12 | 0.03 | - | - | - | - | - | - | - | - | - | 1.14 |
| 14-15-16 | 1.79 | 0.21 | 0.03 | - | - | - | - | - | - | - | - | 2.03 |
| 17-18-19 | 2.41 | 0.23 | - | - | - | - | - | - | - | - | - | 2.65 |
| 20-21-22 | 5.89 | 1.71 | - | - | - | - | - | - | - | - | - | 7.61 |
| 23-24-25 | 6.02 | 1.40 | 0.05 | - | - | - | - | - | - | - | - | 7.48 |
| 26-27-28 | 0.88 | 0.23 | - | - | - | - | - | - | - | - | - | 1.12 |
| 29-30-31 | 0.49 | - | - | - | - | - | - | - | - | - | - | 0.49 |
| 32-33-34 | 0.29 | 0.03 | - | - | - | - | - | - | - | - | - | 0.31 |
| TOTAL | 92.83 | 5.87 | 0.57 | - | - | - | - | - | - | - | - | 100 |




**CALM**
0.73%

**VARIABLE**
55.73%

The prevailing wind directions of 020º-070º frequency of occurrence is 17.04% and that of 200º-250º.directions is 15.09%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 98.70%) according to “Beaufort wind force scale”.

The maximum wind of 11-15 knots is observed within the 020º-040º sectors (frequency of occurrence 0.44%).

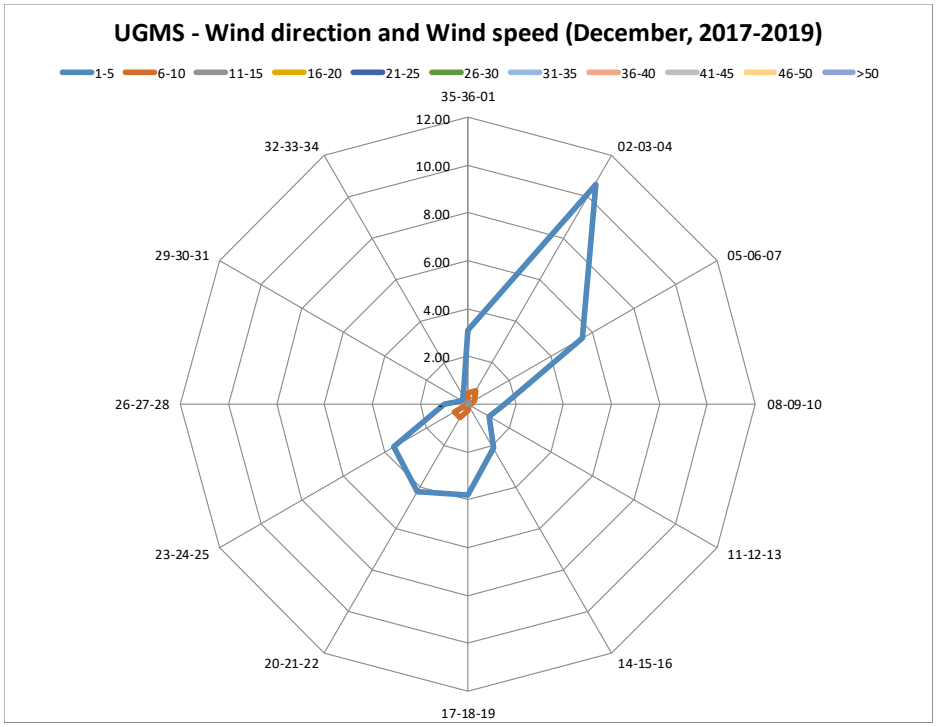
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: DECEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.74 |
| VARIABLE | 57.49 | 0.05 | - | - | - | - | - | - | - | - | - | 57.55 |
| 35-36-01 | 3.10 | 0.45 | - | - | - | - | - | - | - | - | - | 3.55 |
| 02-03-04 | 10.63 | 0.67 | 0.11 | - | - | - | - | - | - | - | - | 11.41 |
| 05-06-07 | 5.53 | 0.29 | 0.03 | - | - | - | - | - | - | - | - | 5.85 |
| 08-09-10 | 1.52 | 0.13 | - | - | - | - | - | - | - | - | - | 1.66 |
| 11-12-13 | 1.04 | - | - | - | - | - | - | - | - | - | - | 1.04 |
| 14-15-16 | 2.14 | 0.05 | - | - | - | - | - | - | - | - | - | 2.19 |
| 17-18-19 | 3.82 | 0.27 | - | - | - | - | - | - | - | - | - | 4.09 |
| 20-21-22 | 4.25 | 0.67 | - | - | - | - | - | - | - | - | - | 4.92 |
| 23-24-25 | 3.58 | 0.67 | 0.03 | - | - | - | - | - | - | - | - | 4.27 |
| 26-27-28 | 0.99 | 0.03 | - | - | - | - | - | - | - | - | - | 1.02 |
| 29-30-31 | 0.29 | - | - | - | - | - | - | - | - | - | - | 0.29 |
| 32-33-34 | 0.43 | - | - | - | - | - | - | - | - | - | - | 0.43 |
| TOTAL | 94.82 | 3.29 | 0.16 | - | - | - | - | - | - | - | - | 100 |




**CALM**
1.74%

**VARIABLE**
57.55%

The prevailing wind directions of 020º-070º frequency of occurrence is 17.26%.

The most frequent wind speed is up to 10 knots, which is the Light breeze and Gentle breeze (frequency of occurrence 98.11%) according to “Beaufort wind force scale”.

The maximum wind of 11-15 knots is observed within the 020º-070º sectors (frequency of occurrence 0.14%).

**AERONAUTICAL CLIMATOLOGY**

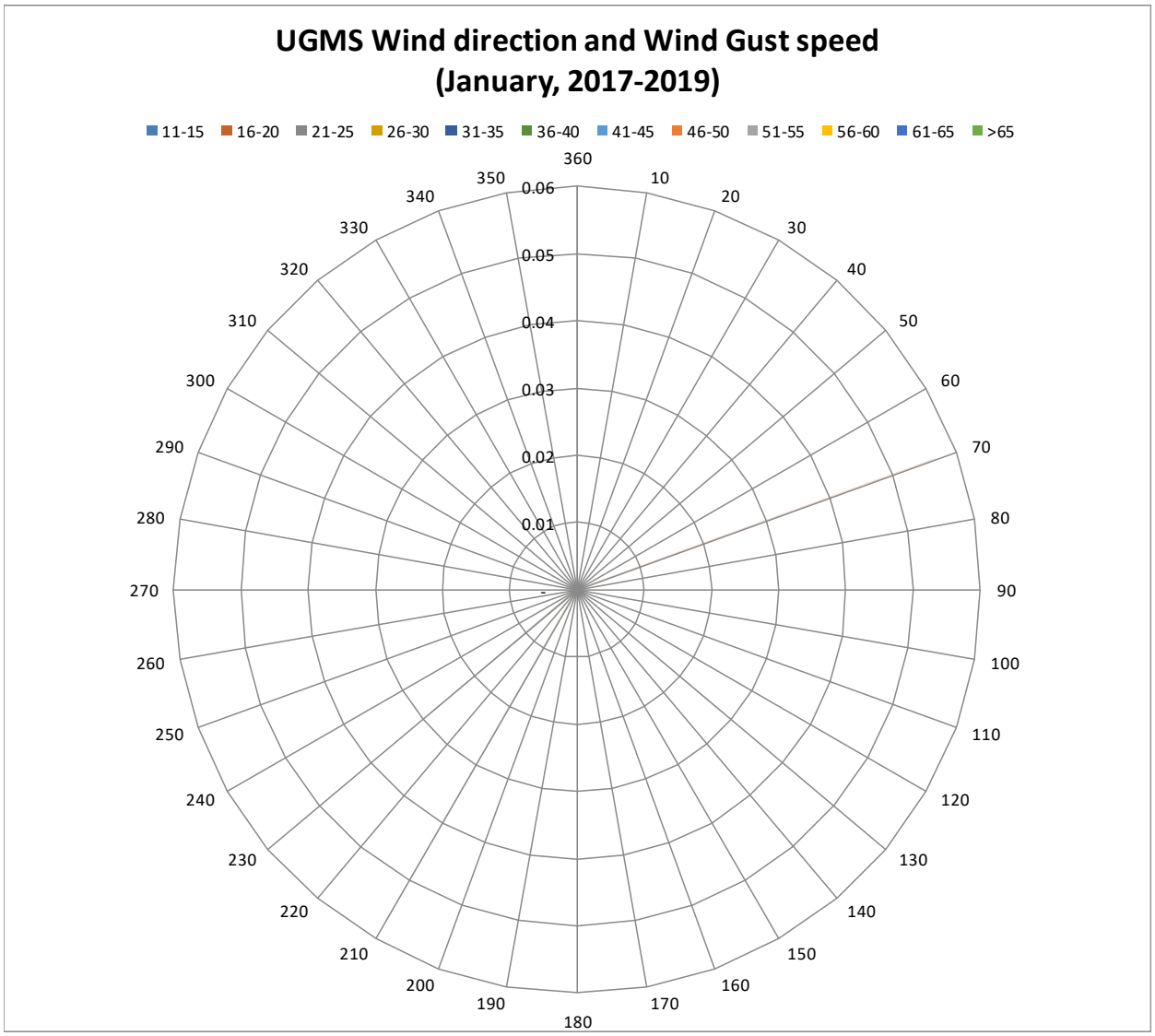
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: JANUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | 0.06 | - | - | - | - | - | - | - | 0.06 |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - |
| 130 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 140 | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | 0.06 | 0.03 | - | - | - | - | - | 0.09 |
| 220 | - | - | - | - | - | - | - | - | - | - |
| 230 | - | 0.03 | 0.03 | - | - | 0.03 | - | - | - | 0.09 |
| 240 | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | - | - | - | - | - | - | - |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.11 | 0.09 | 0.03 | - | 0.03 | - | - | - | 0.26 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (36-40 knots) corresponds to the Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.03%).

The directions of maximum wind gusts is 230º.

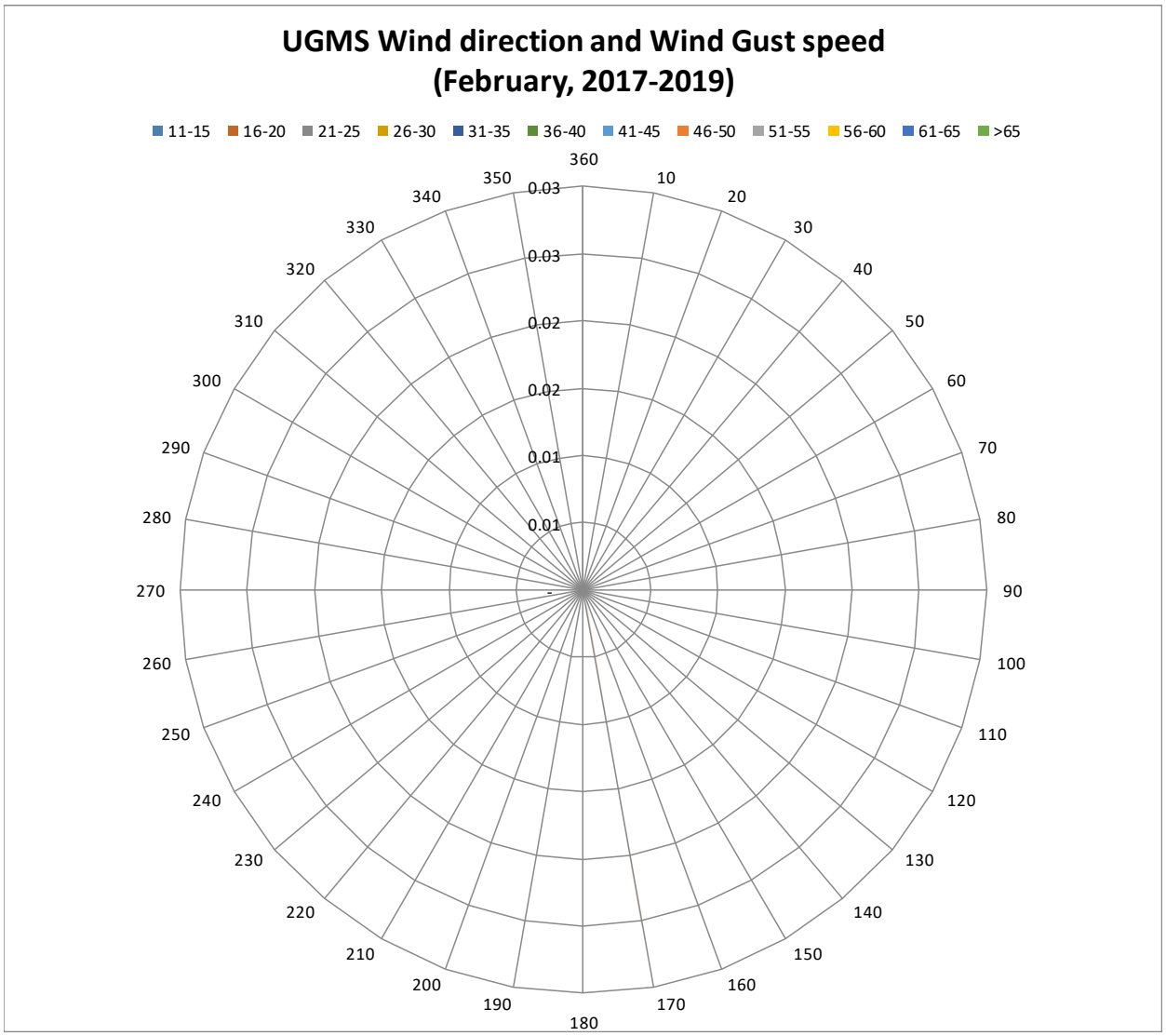
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: FEBRUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | - | - | - | - | - | - | - |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.03 | - | - | - | - | - | - | - | 0.03 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (16-20 knots) corresponds to the Moderate breeze according to “Beaufort wind force scale” (frequency of occurrence – 0.03%).

The directions of maximum wind gust is 170º.

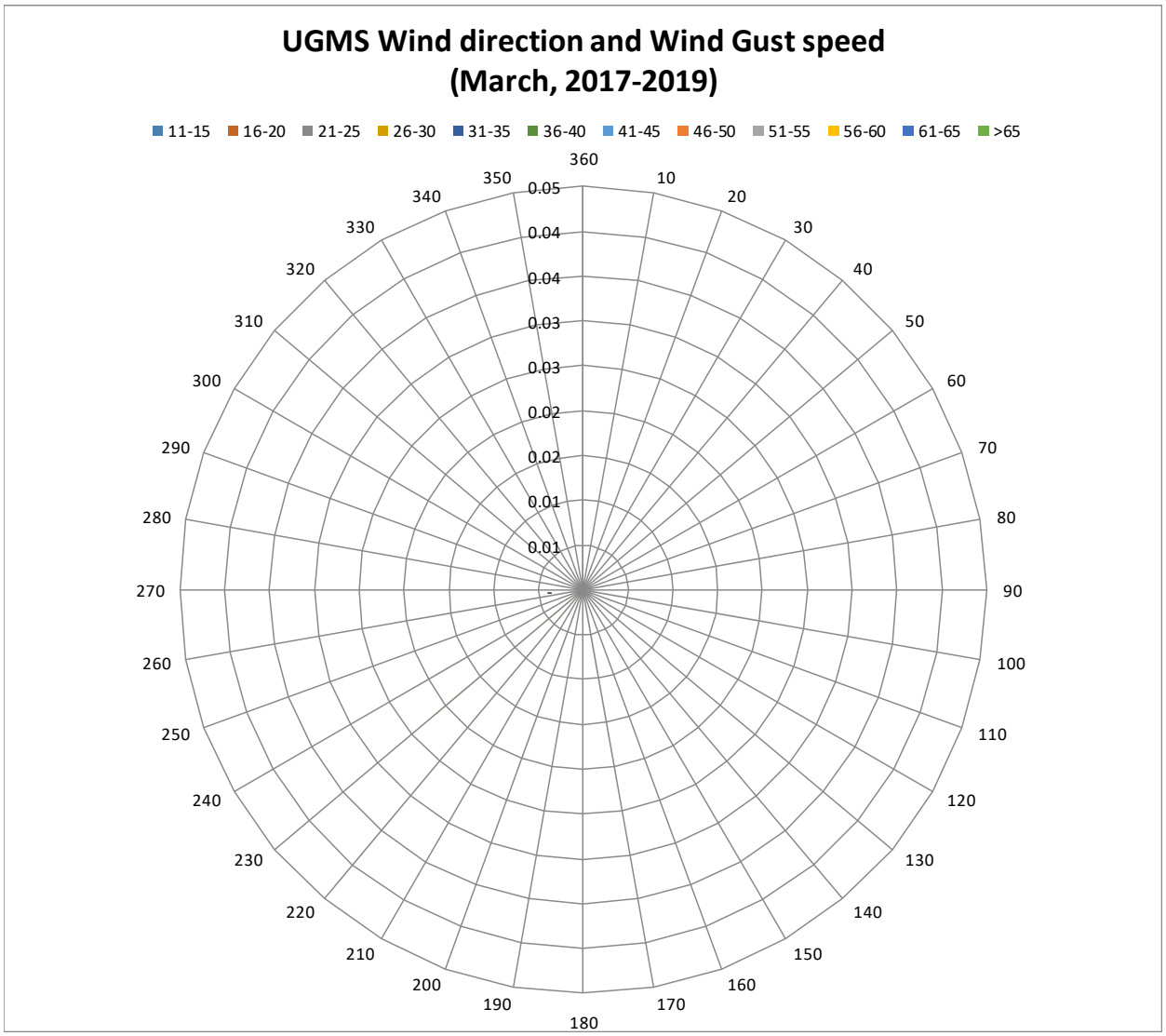
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: MARCH PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 110 | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 210 | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | 0.04 | - | - | - | - | - | - | 0.04 |
| 230 | - | 0.02 | - | 0.04 | - | - | - | - | - | 0.06 |
| 240 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 250 | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.06 | 0.13 | 0.04 | - | - | - | - | - | 0.24 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (26-30 knots) corresponds to the Strong breeze and Near gale according to “Beaufort wind force scale” (frequency of occurrence – 0.04%).

The direction of maximum wind gust is 230º.

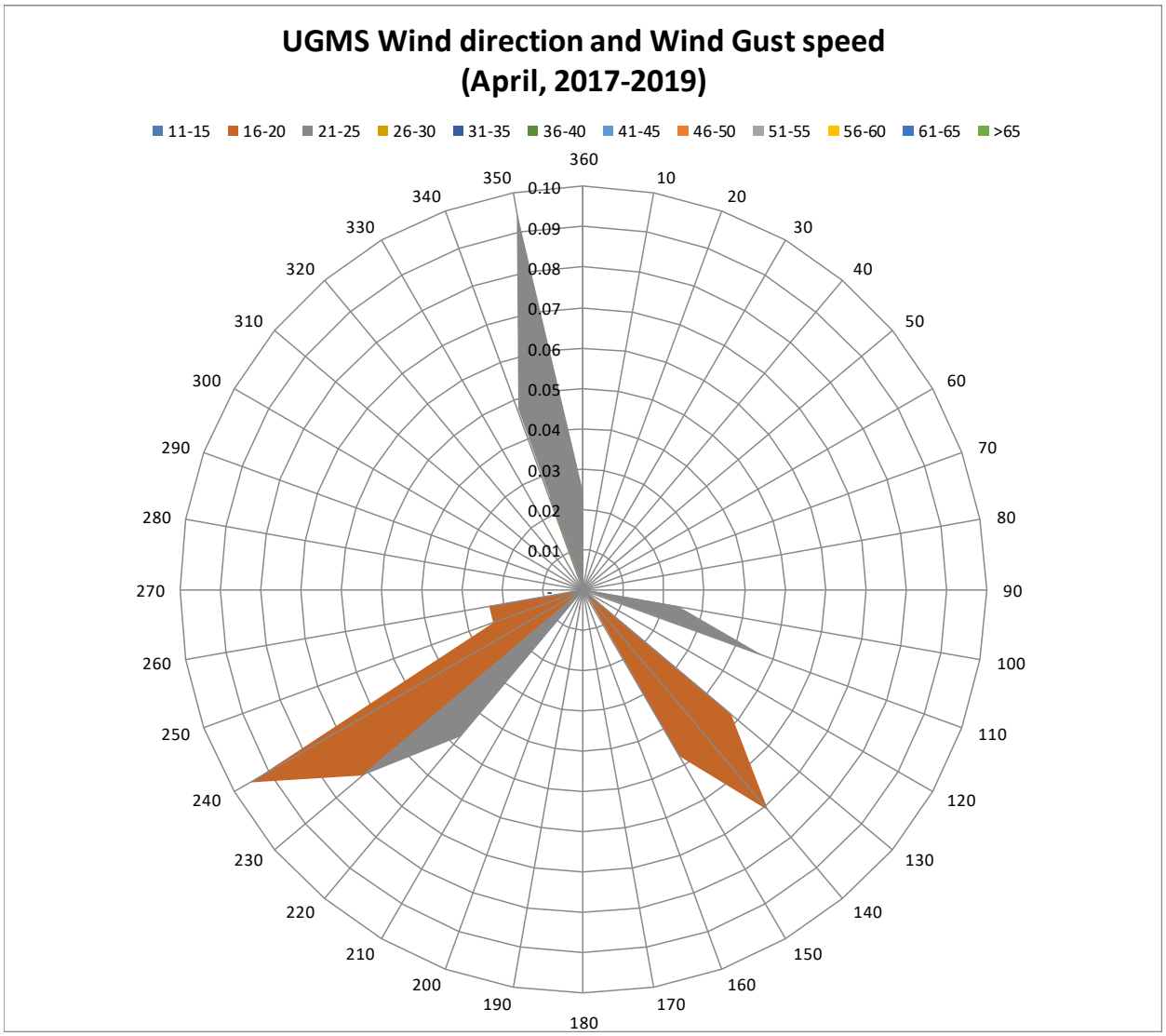
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: APRIL PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | 0.05 | - | - | - | - | - | - | - | 0.05 |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | 0.02 | - | - | - | - | 0.02 |
| 60 | - | - | - | 0.02 | - | - | - | - | - | 0.02 |
| 70 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 80 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 110 | - | 0.02 | 0.05 | - | - | - | - | - | - | 0.07 |
| 120 | - | - | - | - | - | - | - | - | - | - |
| 130 | - | 0.05 | - | - | - | - | - | - | - | 0.05 |
| 140 | - | 0.07 | - | - | - | - | - | - | - | 0.07 |
| 150 | - | 0.05 | - | - | - | - | - | - | - | 0.05 |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | 0.05 | - | - | - | - | - | - | 0.05 |
| 190 | - | 0.05 | - | - | - | - | - | - | - | 0.05 |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 220 | - | - | 0.05 | - | - | - | - | - | - | 0.05 |
| 230 | - | 0.07 | 0.07 | - | - | - | - | - | - | 0.14 |
| 240 | - | 0.10 | - | - | - | - | - | - | - | 0.10 |
| 250 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 260 | - | 0.02 | 0.02 | - | - | - | - | - | - | 0.05 |
| 270 | 0.02 | - | - | - | - | - | - | - | - | 0.02 |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | 0.02 | 0.05 | 0.10 | - | - | - | - | - | 0.17 |
| 350 | - | 0.05 | 0.10 | - | - | - | - | - | - | 0.14 |
| TOTAL | 0.02 | 0.64 | 0.45 | 0.12 | 0.02 | - | - | - | - | 1.26 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (31-35 knots) corresponds to the Near gale and Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.02%).

The directions of maximum wind gust is 050º.

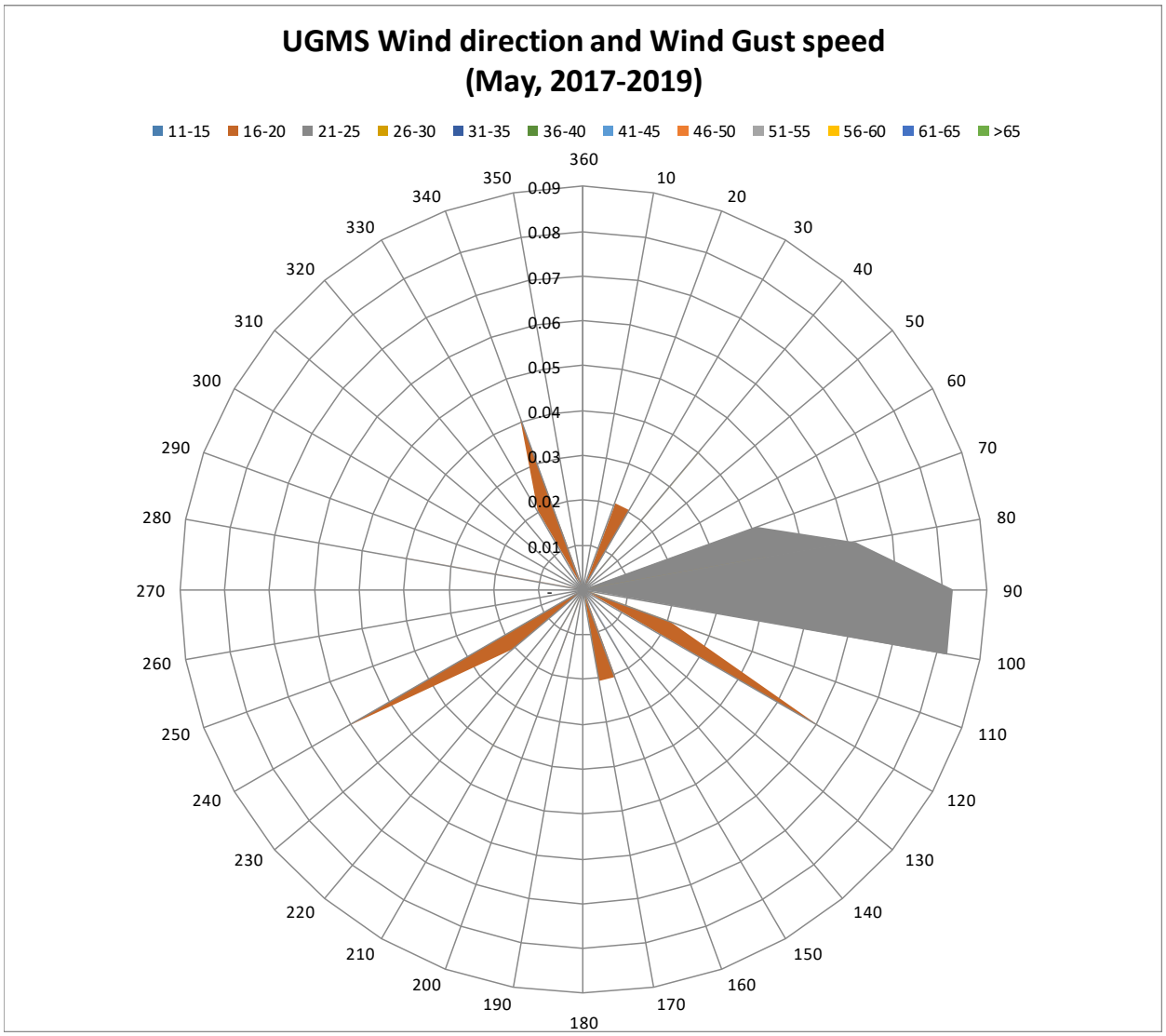
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: MAY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | 0.02 | - | - | - | - | - | 0.02 |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 30 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 40 | - | - | 0.04 | 0.04 | - | - | - | - | - | 0.08 |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | 0.04 | - | - | - | - | - | - | 0.04 |
| 80 | - | 0.04 | 0.06 | 0.04 | - | - | - | - | - | 0.14 |
| 90 | - | 0.02 | 0.08 | - | - | - | - | - | - | 0.10 |
| 100 | - | - | 0.08 | - | - | - | - | - | - | 0.08 |
| 110 | - | 0.02 | - | 0.04 | - | - | - | - | - | 0.06 |
| 120 | - | 0.06 | - | - | - | - | - | - | - | 0.06 |
| 130 | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | 0.02 | - | - | - | - | 0.02 |
| 160 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 170 | - | 0.02 | - | 0.02 | - | - | - | - | - | 0.04 |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 210 | - | - | - | 0.04 | - | - | - | - | - | 0.04 |
| 220 | - | - | 0.04 | - | - | - | - | - | - | 0.04 |
| 230 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 240 | - | 0.06 | 0.02 | 0.02 | - | - | - | - | - | 0.10 |
| 250 | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | - | - | - | - | - | - | - |
| 270 | 0.04 | - | 0.02 | - | - | - | - | - | - | 0.06 |
| 280 | - | 0.04 | - | - | - | - | - | - | - | 0.04 |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 340 | - | 0.04 | - | - | - | - | - | - | - | 0.04 |
| 350 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| TOTAL | 0.04 | 0.43 | 0.41 | 0.23 | 0.02 | - | - | - | - | 1.13 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (31-35 knots) corresponds to the Near gale and Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.02%).

The directions of maximum wind gust is 150º.

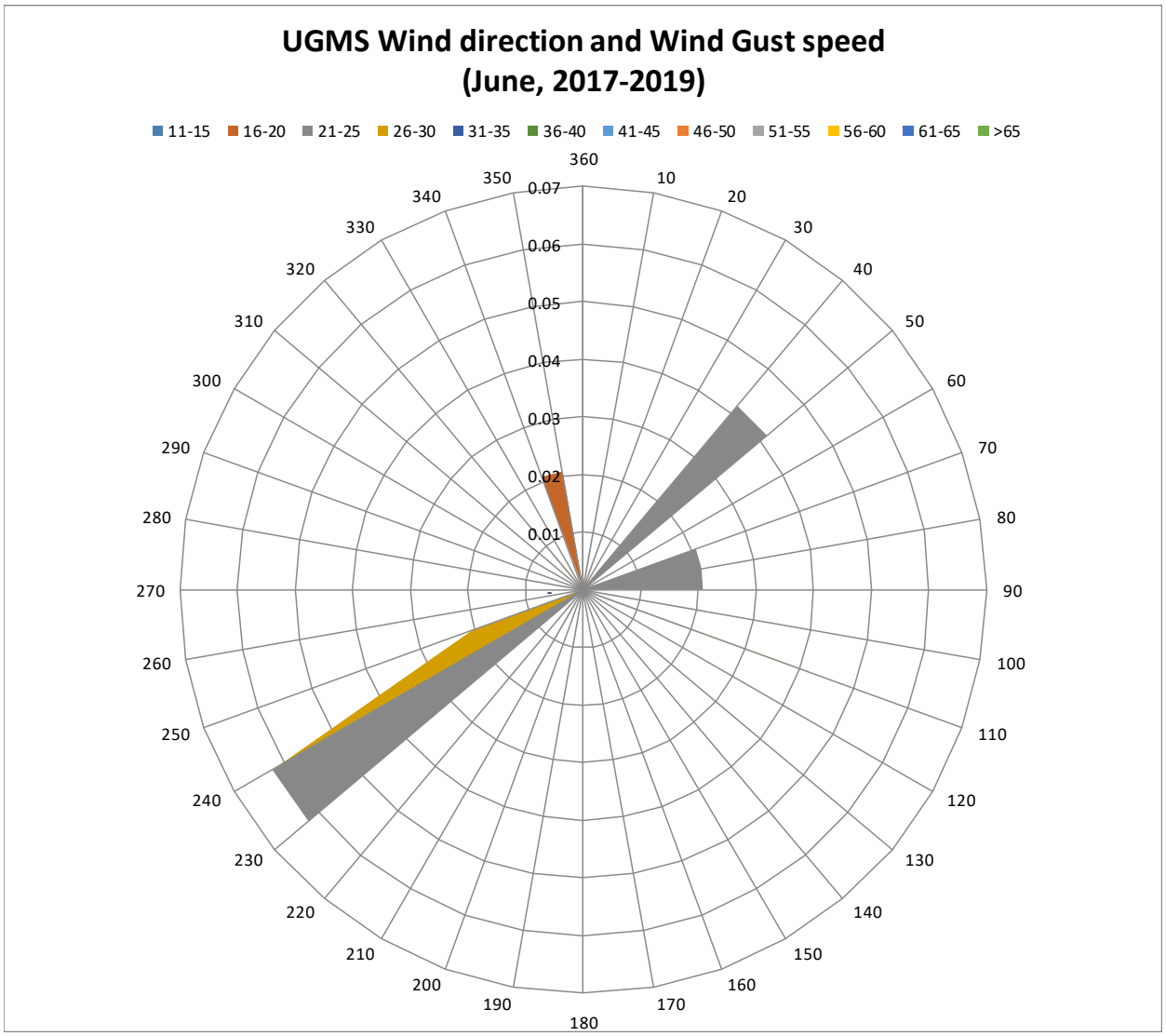
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: JUNE PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | 0.04 | - | - | - | - | - | - | 0.04 |
| 10 | - | - | - | - | 0.02 | - | - | - | - | 0.02 |
| 20 | - | 0.02 | 0.02 | - | - | - | - | - | - | 0.04 |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | 0.02 | 0.04 | 0.02 | - | - | - | - | - | 0.08 |
| 50 | - | - | 0.04 | - | - | - | - | - | - | 0.04 |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | 0.02 | 0.02 | 0.02 | - | - | - | - | - | 0.06 |
| 80 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 90 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 100 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 110 | - | - | - | 0.04 | 0.02 | - | - | - | - | 0.06 |
| 120 | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | 0.02 | - | - | - | - | - | - | - | - | 0.02 |
| 220 | - | - | - | 0.02 | - | - | - | - | - | 0.02 |
| 230 | - | 0.02 | 0.06 | - | - | - | - | - | - | 0.08 |
| 240 | - | - | 0.06 | 0.06 | - | - | - | - | - | 0.12 |
| 250 | - | - | - | 0.02 | - | - | - | - | - | 0.02 |
| 260 | - | - | - | - | - | - | - | - | - | - |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 350 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| TOTAL | 0.02 | 0.19 | 0.35 | 0.19 | 0.04 | - | - | - | - | 0.79 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (31-35 knots) corresponds to the Near gale and Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.04%).

The directions of maximum wind gusts are 010º and 110º.

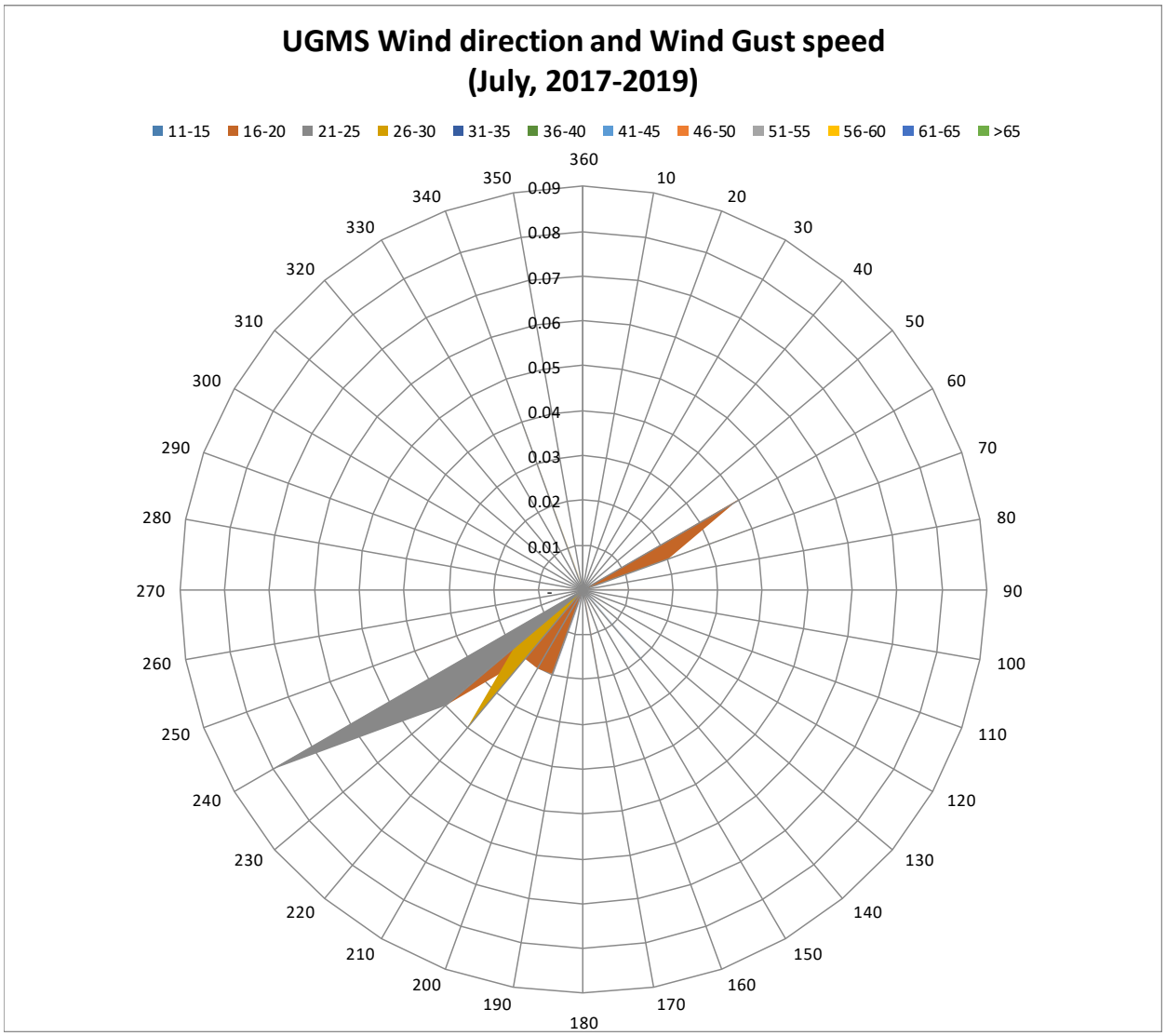
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: JULY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | 0.04 | - | - | - | - | - | - | - | 0.04 |
| 70 | - | 0.02 | - | 0.04 | - | - | - | - | - | 0.06 |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | 0.02 | 0.02 | - | - | - | - | - | - | 0.04 |
| 100 | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 120 | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - |
| 140 | 0.02 | - | - | - | - | - | - | - | - | 0.02 |
| 150 | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | 0.02 | - | - | 0.02 | - | - | - | - | 0.04 |
| 210 | - | 0.02 | 0.02 | - | - | - | - | - | - | 0.04 |
| 220 | - | 0.02 | - | 0.04 | - | - | - | - | - | 0.06 |
| 230 | 0.02 | 0.04 | 0.04 | 0.02 | - | - | - | - | - | 0.12 |
| 240 | - | - | 0.08 | - | - | - | - | - | - | 0.08 |
| 250 | 0.02 | 0.04 | - | - | - | - | - | - | - | 0.06 |
| 260 | - | - | - | - | - | - | - | - | - | - |
| 270 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | 0.04 | - | - | - | - | - | 0.04 |
| 350 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| TOTAL | 0.06 | 0.26 | 0.20 | 0.14 | 0.02 | - | - | - | - | 0.68 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (31-35 knots) corresponds to the Near gale and Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.02%).

The directions of maximum wind gust is 200º.

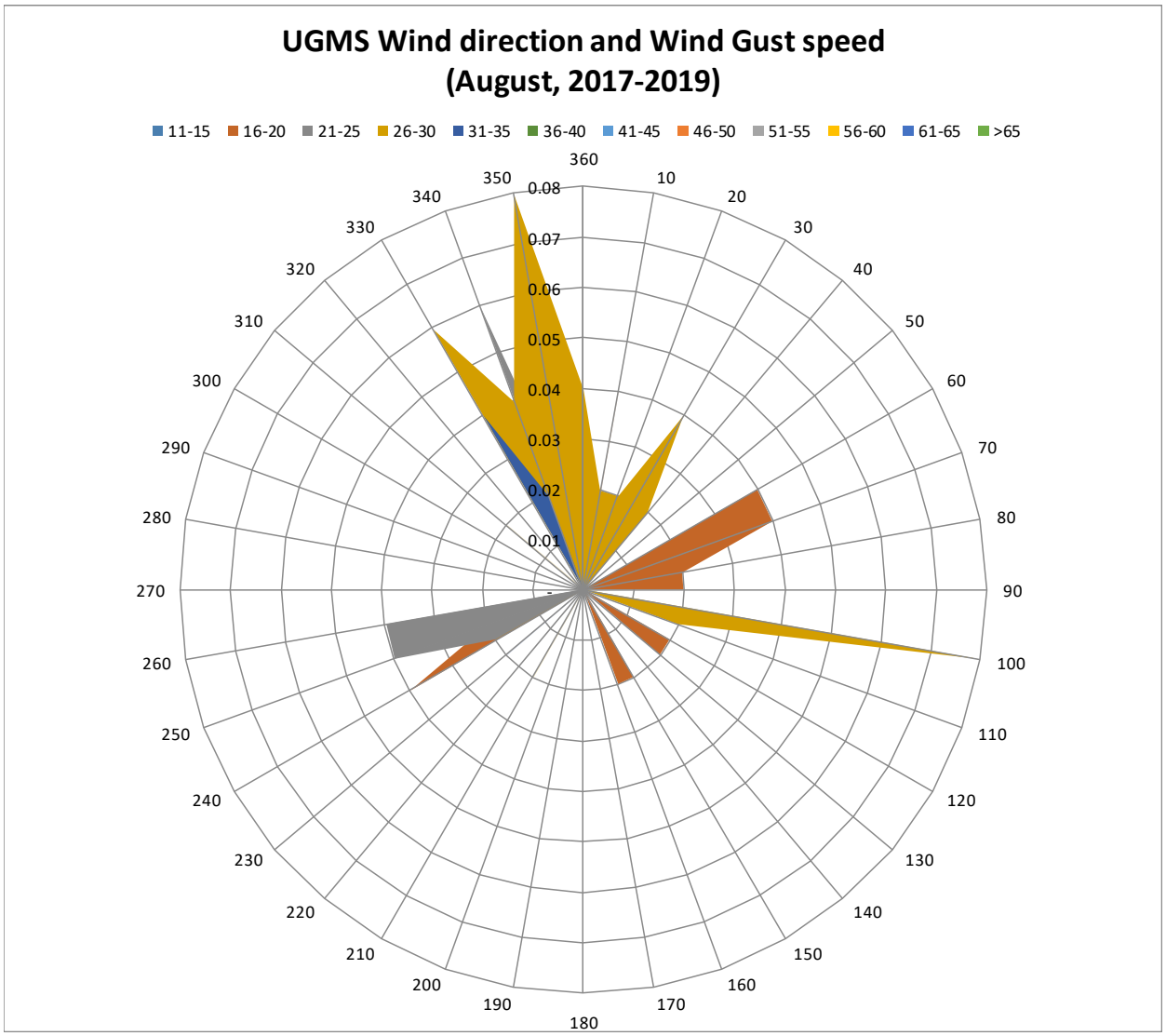
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: AUGUST PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | 0.04 | 0.02 | - | - | - | - | 0.06 |
| 10 | - | 0.04 | 0.02 | 0.02 | - | - | - | - | - | 0.08 |
| 20 | - | - | 0.02 | 0.02 | - | - | - | - | - | 0.04 |
| 30 | - | - | - | 0.04 | - | - | - | - | - | 0.04 |
| 40 | - | 0.02 | - | 0.02 | - | - | - | - | - | 0.04 |
| 50 | - | - | 0.06 | - | - | - | - | - | - | 0.06 |
| 60 | - | 0.04 | - | - | - | - | - | - | - | 0.04 |
| 70 | - | 0.04 | - | 0.04 | - | - | - | - | - | 0.08 |
| 80 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 90 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 100 | - | - | - | 0.08 | - | - | - | - | - | 0.08 |
| 110 | - | - | - | 0.02 | - | - | - | - | - | 0.02 |
| 120 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 130 | - | 0.02 | 0.02 | - | - | - | - | - | - | 0.04 |
| 140 | - | - | - | - | - | - | - | - | - | - |
| 150 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 160 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | 0.02 | - | - | - | - | - | 0.02 |
| 220 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 230 | - | - | - | - | 0.02 | - | - | - | - | 0.02 |
| 240 | - | 0.04 | 0.02 | 0.02 | - | - | - | - | - | 0.08 |
| 250 | - | 0.02 | 0.04 | - | - | - | - | - | - | 0.06 |
| 260 | - | - | 0.04 | - | - | - | - | - | - | 0.04 |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | 0.02 | - | - | - | - | - | 0.02 |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | 0.06 | 0.04 | - | - | - | - | 0.10 |
| 340 | - | - | 0.06 | 0.04 | 0.02 | - | - | - | - | 0.12 |
| 350 | - | - | 0.02 | 0.08 | - | - | - | - | - | 0.10 |
| TOTAL | - | 0.32 | 0.32 | 0.52 | 0.10 | - | - | - | - | 1.25 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (31-35 knots) corresponds to the Near gale and Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.10%).

The directions of maximum wind gusts are 230º, 330º, 340º and 360º.

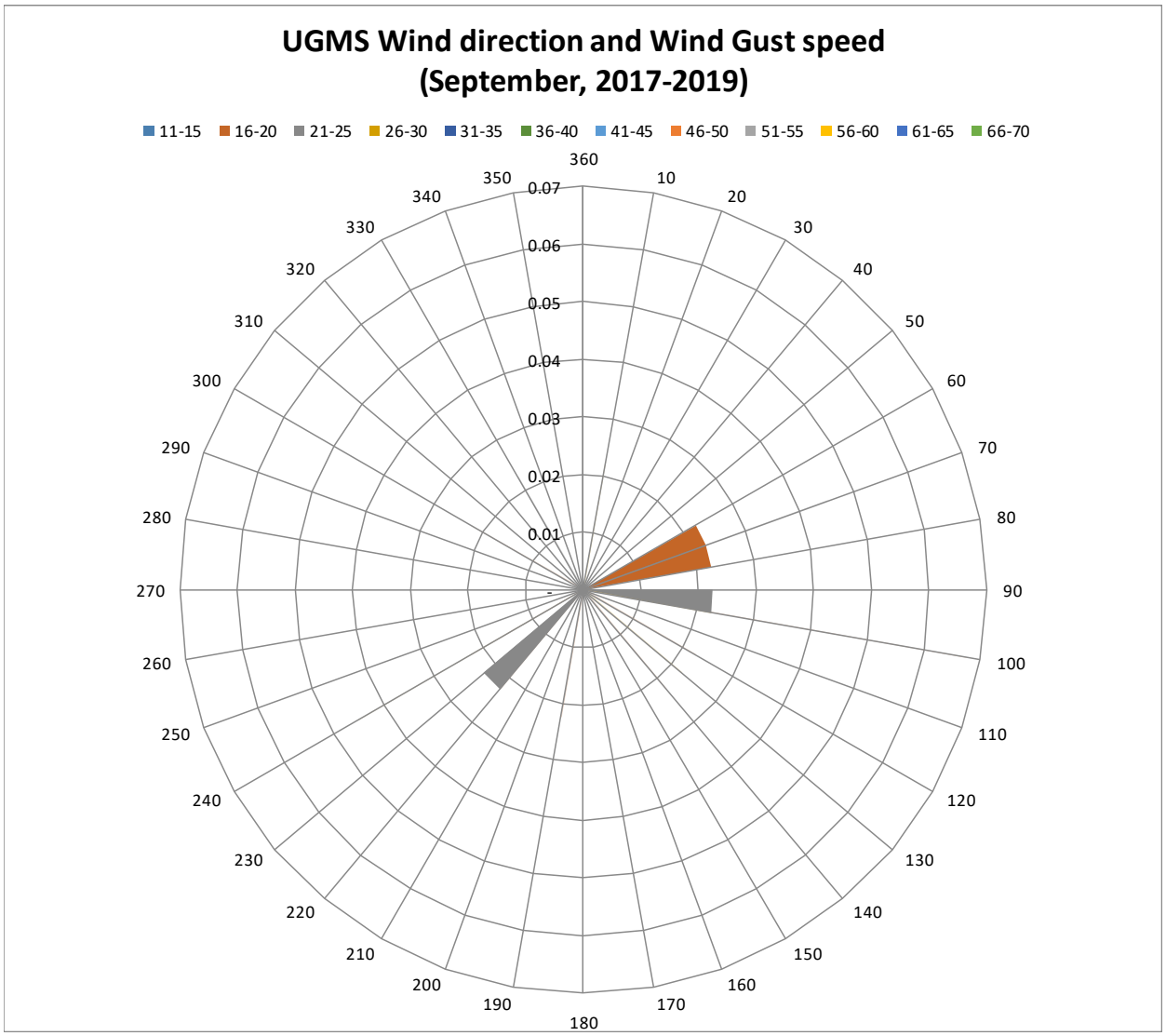
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: SEPTEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | 0.02 | - | - | - | - | - | 0.02 |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 70 | - | 0.02 | 0.05 | - | - | - | - | - | - | 0.07 |
| 80 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 90 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 100 | - | 0.07 | 0.02 | 0.02 | - | - | - | - | - | 0.11 |
| 110 | - | - | - | - | - | - | - | - | - | - |
| 120 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 130 | - | - | - | 0.02 | - | - | - | - | - | 0.02 |
| 140 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 150 | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - |
| 220 | - | 0.02 | 0.02 | - | - | - | - | - | - | 0.05 |
| 230 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 240 | - | 0.02 | - | 0.05 | - | - | - | - | - | 0.07 |
| 250 | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | - | - | - | - | - | - | - |
| 270 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| TOTAL | - | 0.27 | 0.20 | 0.11 | - | - | - | - | - | 0.59 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (26-30 knots) corresponds to the Strong breeze and Near gale according to “Beaufort wind force scale” (frequency of occurrence – 0.11%).

The direction of maximum wind gusts are 010º, 100º, 130º and 240º.

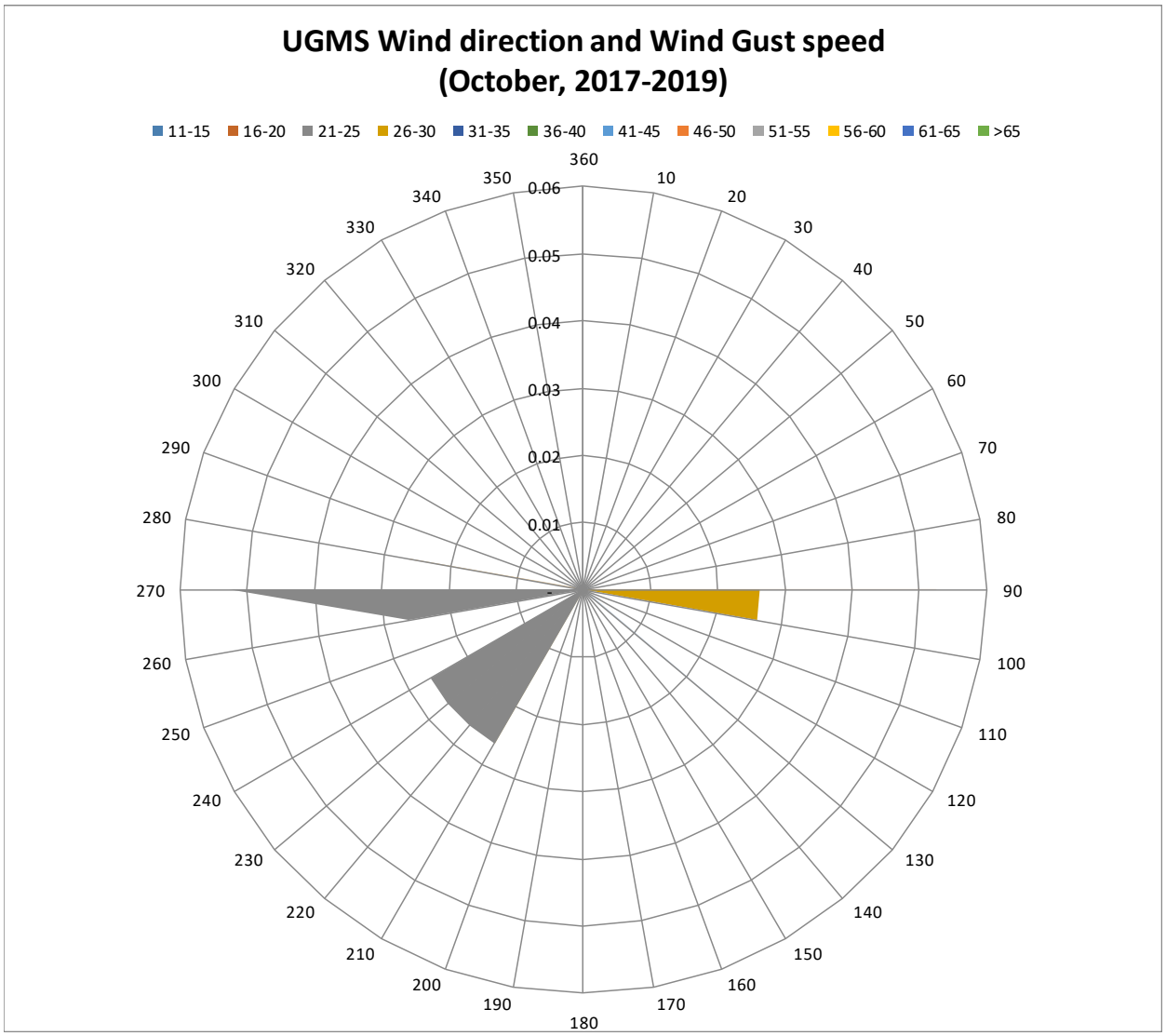
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: OCTOBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | 0.03 | - | - | - | - | - | - | 0.03 |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | 0.05 | - | 0.03 | - | - | - | - | - | 0.08 |
| 100 | - | - | - | 0.03 | - | - | - | - | - | 0.03 |
| 110 | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - |
| 130 | 0.03 | - | - | - | - | - | - | - | - | 0.03 |
| 140 | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | 0.03 | 0.03 | - | - | - | - | - | 0.05 |
| 220 | - | 0.03 | 0.03 | - | - | - | - | - | - | 0.05 |
| 230 | 0.03 | - | 0.03 | - | - | - | - | - | - | 0.05 |
| 240 | - | - | 0.03 | - | - | - | - | - | - | 0.03 |
| 250 | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | 0.03 | - | - | - | - | - | - | 0.03 |
| 270 | - | - | 0.05 | - | - | - | - | - | - | 0.05 |
| 280 | - | 0.03 | - | 0.03 | - | - | - | - | - | 0.05 |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 0.05 | 0.11 | 0.21 | 0.11 | - | - | - | - | - | 0.47 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (26-30 knots) corresponds to the Strong breeze and Near gale according to “Beaufort wind force scale” (frequency of occurrence – 0.11%).

The directions of maximum wind gusts are 090º, 100º, 210º and 280º.

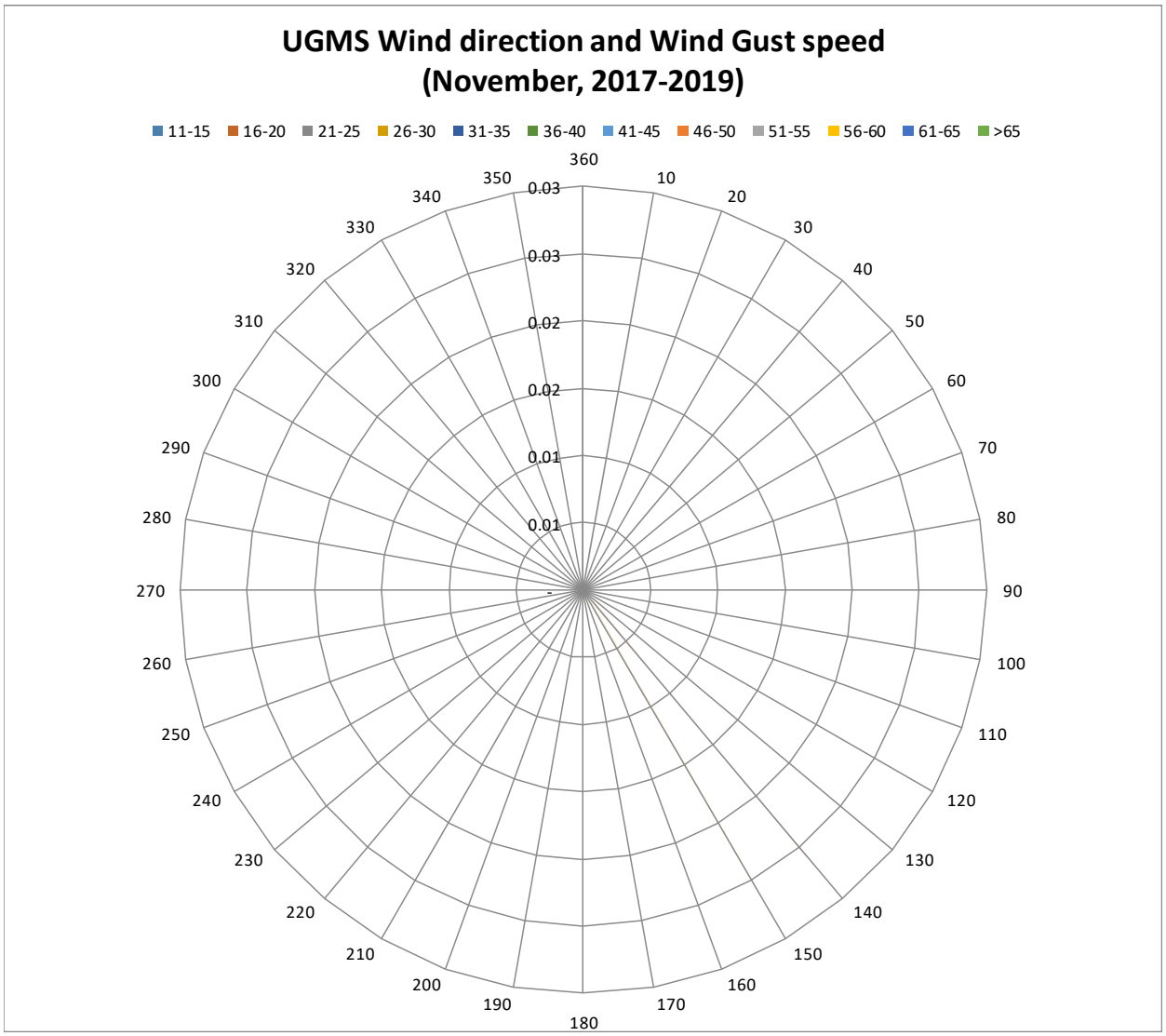
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: NOVEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | 0.03 | - | - | - | - | - | - | 0.03 |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - |
| 140 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 150 | - | - | - | 0.03 | - | - | - | - | - | 0.03 |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 220 | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | - | - | - | - | - | - |
| 250 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 260 | - | - | - | - | - | - | - | - | - | - |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.10 | 0.03 | 0.03 | - | - | - | - | - | 0.16 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (26-30 knots) corresponds to the Strong breeze and Near gale according to “Beaufort wind force scale” (frequency of occurrence – 0.03%).

The directions of maximum wind gust is $150^0$.

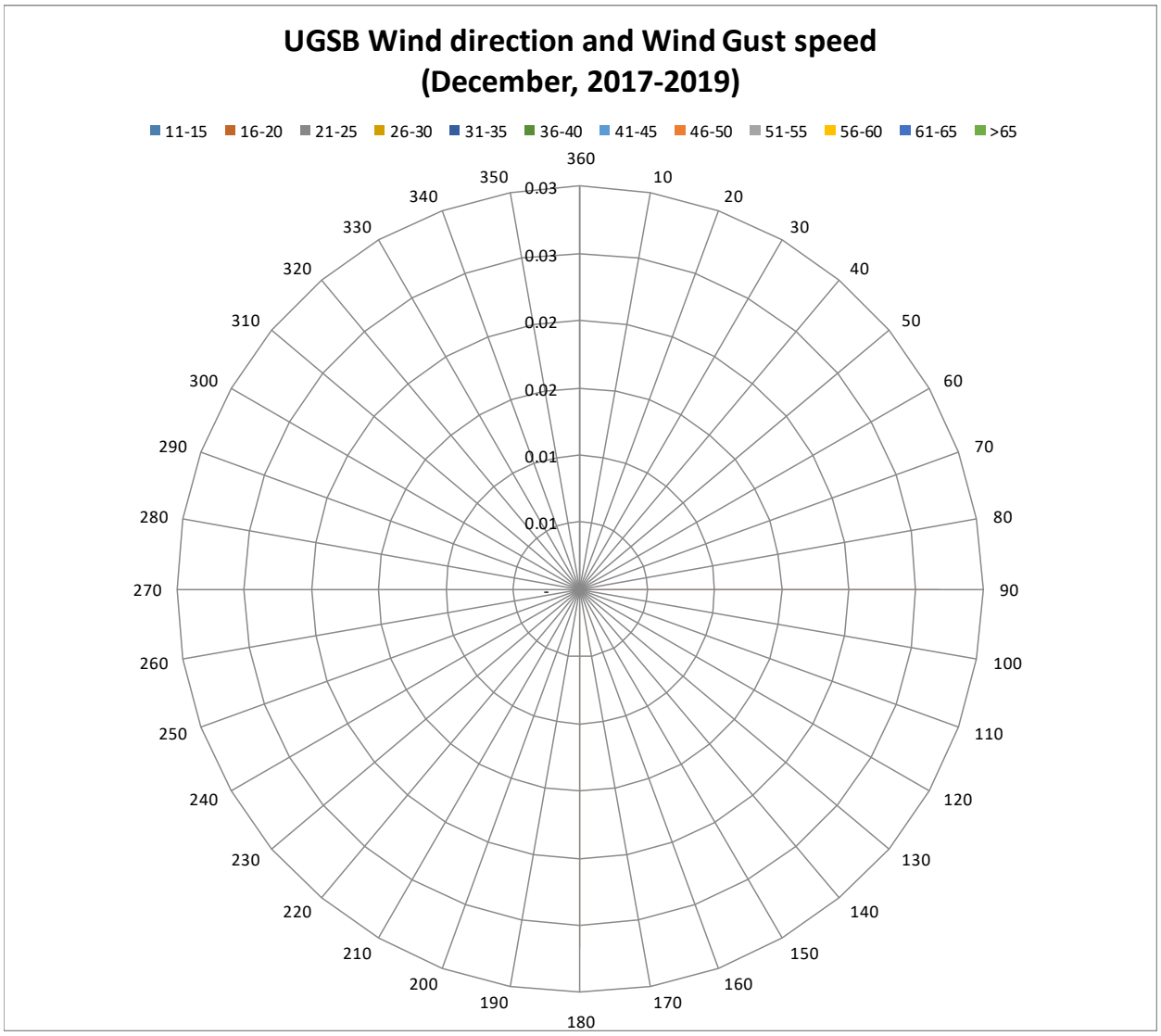
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS MONTH: DECEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 100 | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - |
| 130 | - | - | - | - | - | - | - | - | - | - |
| 140 | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | - | - | - | - | - | - | - | - |
| 220 | - | - | - | - | - | - | - | - | - | - |
| 230 | - | - | - | - | - | - | - | - | - | - |
| 240 | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | - | - | - | - | - | - | - |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.08 | - | - | - | - | - | - | - | 0.08 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (16-20 knots) corresponds to the Moderate breeze and Fresh breeze according to "Beaufort wind force scale" (frequency of occurrence – 0.08%).

The directions of maximum wind gusts are 050º, 090º and 180º.

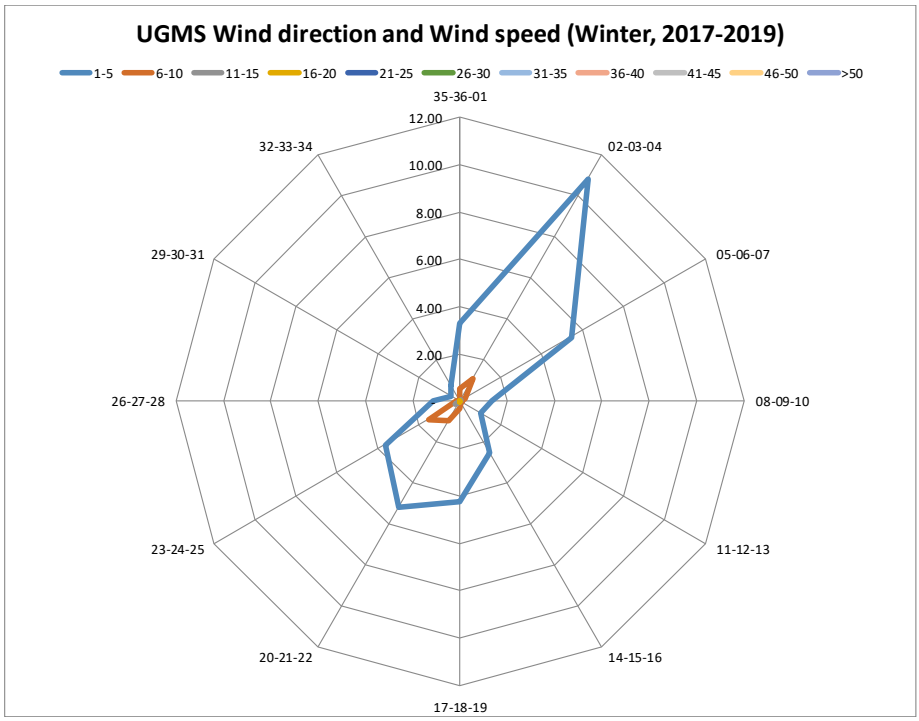
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS SEASON: WINTER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 1.98 |
| VARIABLE | 52.53 | 0.13 | - | - | - | - | - | - | - | - | - | 52.66 |
| 35-36-01 | 3.31 | 0.53 | - | - | - | - | - | - | - | - | - | 3.84 |
| 02-03-04 | 10.83 | 1.11 | 0.05 | - | - | - | - | - | - | - | - | 12.00 |
| 05-06-07 | 5.42 | 0.27 | 0.02 | - | - | - | - | - | - | - | - | 5.71 |
| 08-09-10 | 1.34 | 0.08 | - | - | - | - | - | - | - | - | - | 1.42 |
| 11-12-13 | 1.03 | 0.07 | - | - | - | - | - | - | - | - | - | 1.10 |
| 14-15-16 | 2.50 | 0.08 | 0.02 | - | - | - | - | - | - | - | - | 2.59 |
| 17-18-19 | 4.23 | 0.29 | - | - | - | - | - | - | - | - | - | 4.52 |
| 20-21-22 | 5.14 | 0.97 | 0.04 | 0.01 | - | - | - | - | - | - | - | 6.17 |
| 23-24-25 | 3.66 | 1.55 | 0.21 | 0.02 | - | - | - | - | - | - | - | 5.44 |
| 26-27-28 | 1.11 | 0.16 | 0.01 | - | - | - | - | - | - | - | - | 1.28 |
| 29-30-31 | 0.45 | 0.01 | - | - | - | - | - | - | - | - | - | 0.46 |
| 32-33-34 | 0.80 | 0.03 | - | - | - | - | - | - | - | - | - | 0.83 |
| TOTAL | 92.35 | 5.29 | 0.36 | 0.03 | - | - | - | - | - | - | - | 100 |




**CALM**
1.98%

**VARIABLE**
52.66%

The prevailing wind directions of 020º-070º frequency of occurrence is 17.71%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze (frequency of occurrence 97.64%) according to “Beaufort wind force scale”.

The maximum wind of 16-20 knots is observed within the 200º-250º sectors (frequency of occurrence 0.03%).

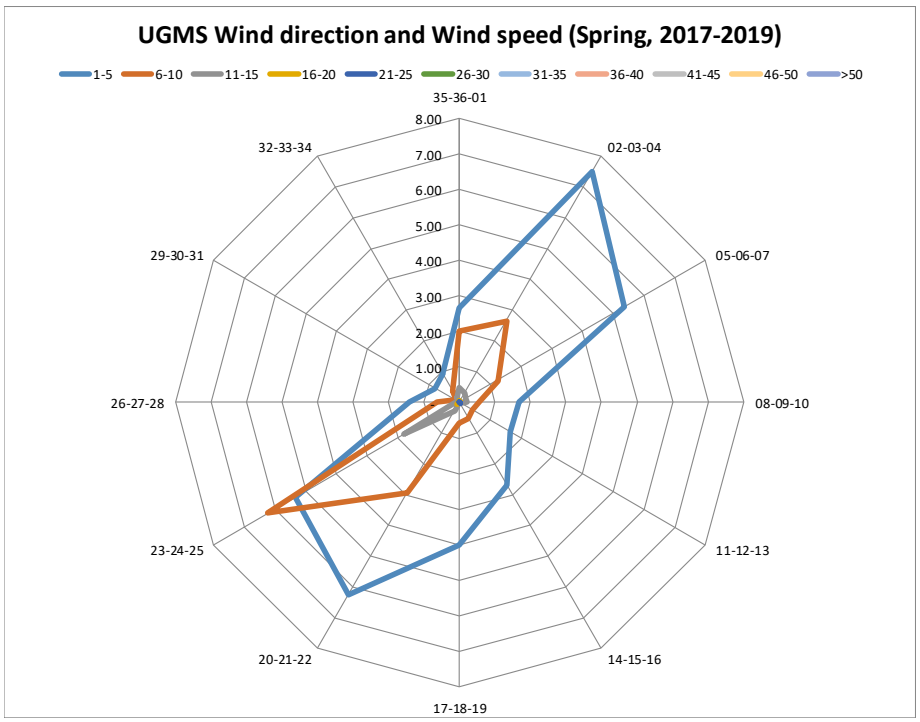
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS SEASON: SPRING PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 13248 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 0.47 |
| VARIABLE | 36.18 | 1.04 | 0.01 | - | - | - | - | - | - | - | - | 37.23 |
| 35-36-01 | 2.65 | 2.01 | 0.42 | 0.06 | - | - | - | - | - | - | - | 5.15 |
| 02-03-04 | 7.50 | 2.65 | 0.32 | - | - | - | - | - | - | - | - | 10.47 |
| 05-06-07 | 5.38 | 1.23 | 0.19 | 0.02 | - | - | - | - | - | - | - | 6.82 |
| 08-09-10 | 1.68 | 0.55 | 0.21 | - | - | - | - | - | - | - | - | 2.44 |
| 11-12-13 | 1.64 | 0.42 | 0.06 | - | 0.01 | - | - | - | - | - | - | 2.12 |
| 14-15-16 | 2.67 | 0.51 | 0.01 | 0.01 | - | - | - | - | - | - | - | 3.19 |
| 17-18-19 | 4.00 | 0.59 | 0.02 | 0.01 | - | - | - | - | - | - | - | 4.62 |
| 20-21-22 | 6.24 | 2.93 | 0.27 | 0.04 | - | - | - | - | - | - | - | 9.47 |
| 23-24-25 | 5.33 | 6.24 | 1.80 | 0.07 | - | - | - | - | - | - | - | 13.43 |
| 26-27-28 | 1.41 | 0.63 | 0.12 | 0.01 | - | - | - | - | - | - | - | 2.17 |
| 29-30-31 | 0.79 | 0.13 | - | - | - | - | - | - | - | - | - | 0.93 |
| 32-33-34 | 0.93 | 0.37 | 0.16 | 0.02 | - | - | - | - | - | - | - | 1.49 |
| TOTAL | 76.41 | 19.31 | 3.59 | 0.23 | 0.01 | - | - | - | - | - | - | 100 |




**CALM**
0.47%

**VARIABLE**
37.23%

The prevailing wind directions of 020º-070º frequency of occurrence is 17.29% and that of 200º-250º directions is 22.90%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 95.72%).

The maximum wind of 21-25 knots is observed within the 110º-130º sector (frequency of occurrence 0.01%).

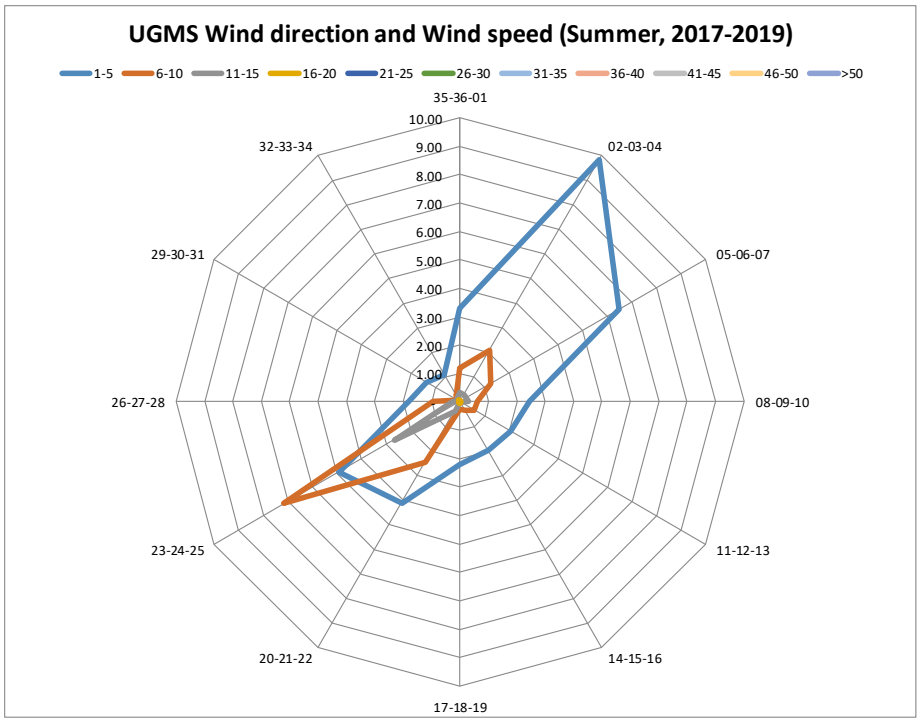
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS SEASON: SUMMER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 13248 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 0.11 |
| VARIABLE | 35.30 | 0.72 | 0.02 | - | - | - | - | - | - | - | - | 36.04 |
| 35-36-01 | 3.28 | 1.19 | 0.34 | 0.05 | - | - | - | - | - | - | - | 4.87 |
| 02-03-04 | 9.83 | 2.07 | 0.30 | 0.01 | - | - | - | - | - | - | - | 12.21 |
| 05-06-07 | 6.49 | 1.27 | 0.26 | - | - | - | - | - | - | - | - | 8.02 |
| 08-09-10 | 2.43 | 0.62 | 0.28 | 0.04 | 0.01 | - | - | - | - | - | - | 3.38 |
| 11-12-13 | 2.08 | 0.56 | 0.05 | 0.01 | - | - | - | - | - | - | - | 2.70 |
| 14-15-16 | 1.97 | 0.33 | - | - | - | - | - | - | - | - | - | 2.30 |
| 17-18-19 | 2.19 | 0.25 | 0.01 | - | - | - | - | - | - | - | - | 2.45 |
| 20-21-22 | 4.11 | 2.44 | 0.36 | 0.05 | - | - | - | - | - | - | - | 6.98 |
| 23-24-25 | 4.94 | 7.16 | 2.66 | 0.05 | - | - | - | - | - | - | - | 14.81 |
| 26-27-28 | 1.82 | 0.95 | 0.23 | - | - | - | - | - | - | - | - | 3.00 |
| 29-30-31 | 1.38 | 0.15 | 0.01 | - | - | - | - | - | - | - | - | 1.54 |
| 32-33-34 | 1.09 | 0.27 | 0.16 | 0.07 | - | - | - | - | - | - | - | 1.59 |
| TOTAL | 76.92 | 17.99 | 4.67 | 0.30 | 0.01 | - | - | - | - | - | - | 100 |




**CALM**
0.11%

**VARIABLE**
36.04%

The prevailing wind directions of 020º-070º frequency of occurrence is 20.23% and that of 200º-250º directions is 21.79%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 94.91 %).

The maximum wind of 31-35 knots is observed within the 080º-100º sector (frequency of occurrence 0.01%).

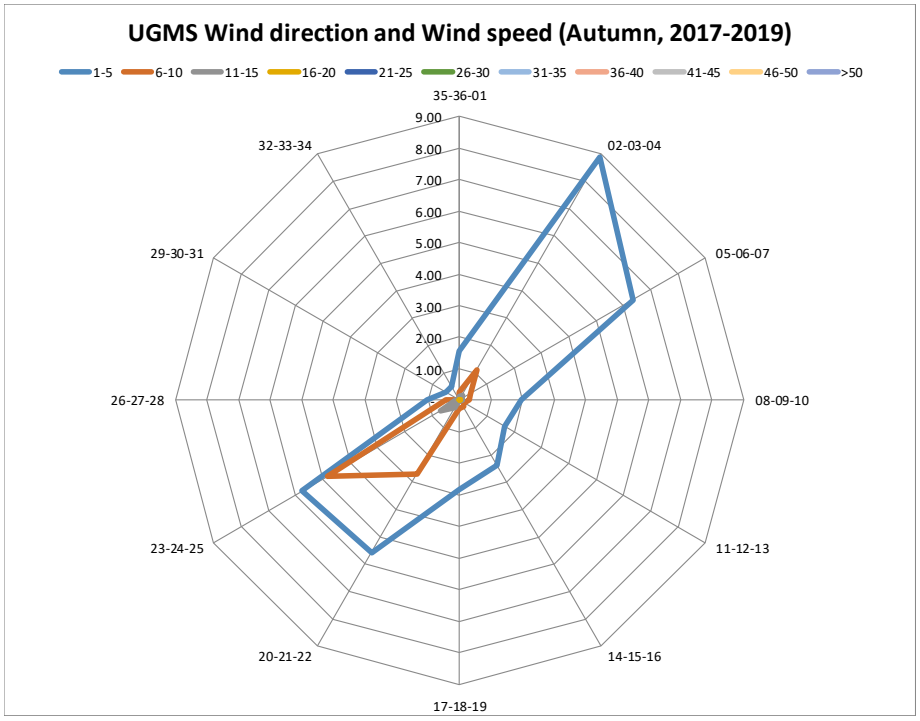
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS SEASON: AUTUMN PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 13104 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT WIND DIRECTION (IN 30° SECTORS) AND SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND SPEED (KT) | | | | | | | | | | | |
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| CALM | | | | | | | | | | | | 0.41 |
| VARIABLE | 47.92 | 0.26 | 0.02 | - | - | - | - | - | - | - | - | 48.20 |
| 35-36-01 | 1.55 | 0.26 | 0.11 | - | - | - | - | - | - | - | - | 1.93 |
| 02-03-04 | 8.90 | 1.13 | 0.18 | - | - | - | - | - | - | - | - | 10.21 |
| 05-06-07 | 6.33 | 0.38 | 0.06 | - | - | - | - | - | - | - | - | 6.77 |
| 08-09-10 | 1.96 | 0.31 | 0.10 | 0.01 | - | - | - | - | - | - | - | 2.38 |
| 11-12-13 | 1.64 | 0.16 | 0.04 | - | - | - | - | - | - | - | - | 1.84 |
| 14-15-16 | 2.39 | 0.24 | 0.01 | - | - | - | - | - | - | - | - | 2.64 |
| 17-18-19 | 2.82 | 0.28 | - | - | - | - | - | - | - | - | - | 3.10 |
| 20-21-22 | 5.58 | 2.69 | 0.27 | - | - | - | - | - | - | - | - | 8.54 |
| 23-24-25 | 5.75 | 4.84 | 0.69 | - | - | - | - | - | - | - | - | 11.29 |
| 26-27-28 | 1.03 | 0.43 | 0.13 | - | - | - | - | - | - | - | - | 1.60 |
| 29-30-31 | 0.50 | 0.01 | - | - | - | - | - | - | - | - | - | 0.50 |
| 32-33-34 | 0.51 | 0.05 | 0.03 | - | - | - | - | - | - | - | - | 0.60 |
| TOTAL | 86.89 | 11.05 | 1.65 | 0.01 | - | - | - | - | - | - | - | 100 |




**CALM**
0.41%

**VARIABLE**
48.20%

The prevailing wind directions of 020º-070º frequency of occurrence is 16.98% and that of 200º-250º directions is 19.83%.

The most frequent wind speed is up to 10 knots, which is the Light and Gentle breeze according to “Beaufort wind force scale” (frequency of occurrence 97.94%).

The maximum wind of 31-35 knots is observed within the 080º-100º (frequency of occurrence 0.01%) sector.

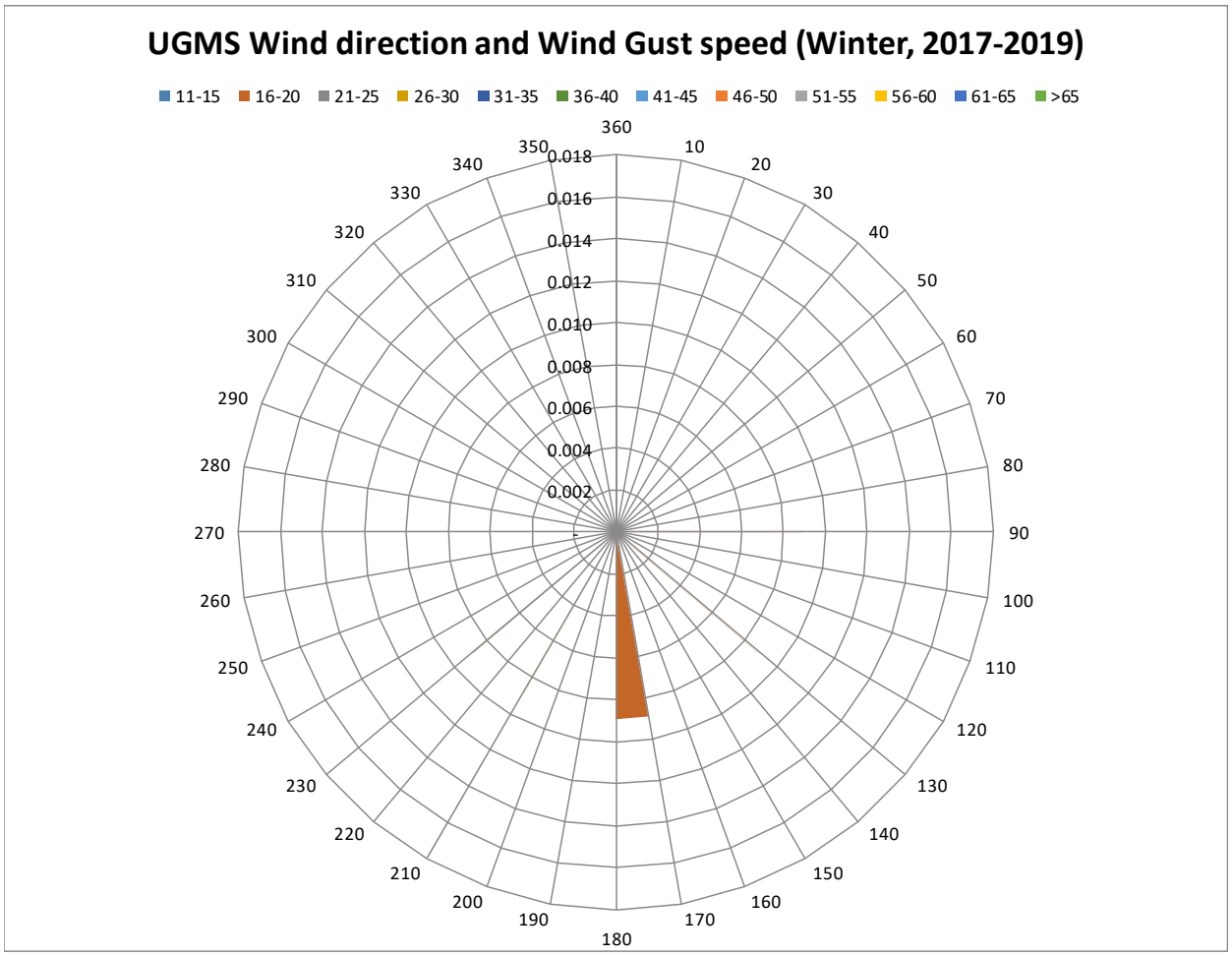
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS SEASON: WINTER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | 0.009 | - | - | - | - | - | - | - | 0.009 |
| 60 | - | - | - | - | - | - | - | - | - | - |
| 70 | - | 0.018 | - | - | - | - | - | - | - | 0.018 |
| 80 | - | - | - | - | - | - | - | - | - | - |
| 90 | - | 0.009 | - | - | - | - | - | - | - | 0.009 |
| 100 | - | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | - | - | - | - | - | - | - |
| 120 | - | - | - | - | - | - | - | - | - | - |
| 130 | - | 0.009 | - | - | - | - | - | - | - | 0.009 |
| 140 | - | - | - | - | - | - | - | - | - | - |
| 150 | - | - | - | - | - | - | - | - | - | - |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | 0.009 | - | - | - | - | - | - | - | 0.009 |
| 180 | - | 0.009 | - | - | - | - | - | - | - | 0.009 |
| 190 | - | - | - | - | - | - | - | - | - | - |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | - | - | 0.018 | 0.009 | - | - | - | - | - | 0.027 |
| 220 | - | - | - | - | - | - | - | - | - | - |
| 230 | - | 0.009 | 0.009 | - | - | 0.009 | - | - | - | 0.027 |
| 240 | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | - | - | - | - |
| 260 | - | - | - | - | - | - | - | - | - | - |
| 270 | - | - | - | - | - | - | - | - | - | - |
| 280 | - | - | - | - | - | - | - | - | - | - |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | - | - | - | - | - | - | - | - |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 0.071 | 0.027 | 0.009 | - | 0.009 | - | - | - | 0.116 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (36-40 knots) corresponds to the Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.009%).

The direction of maximum wind gusts is 230º.

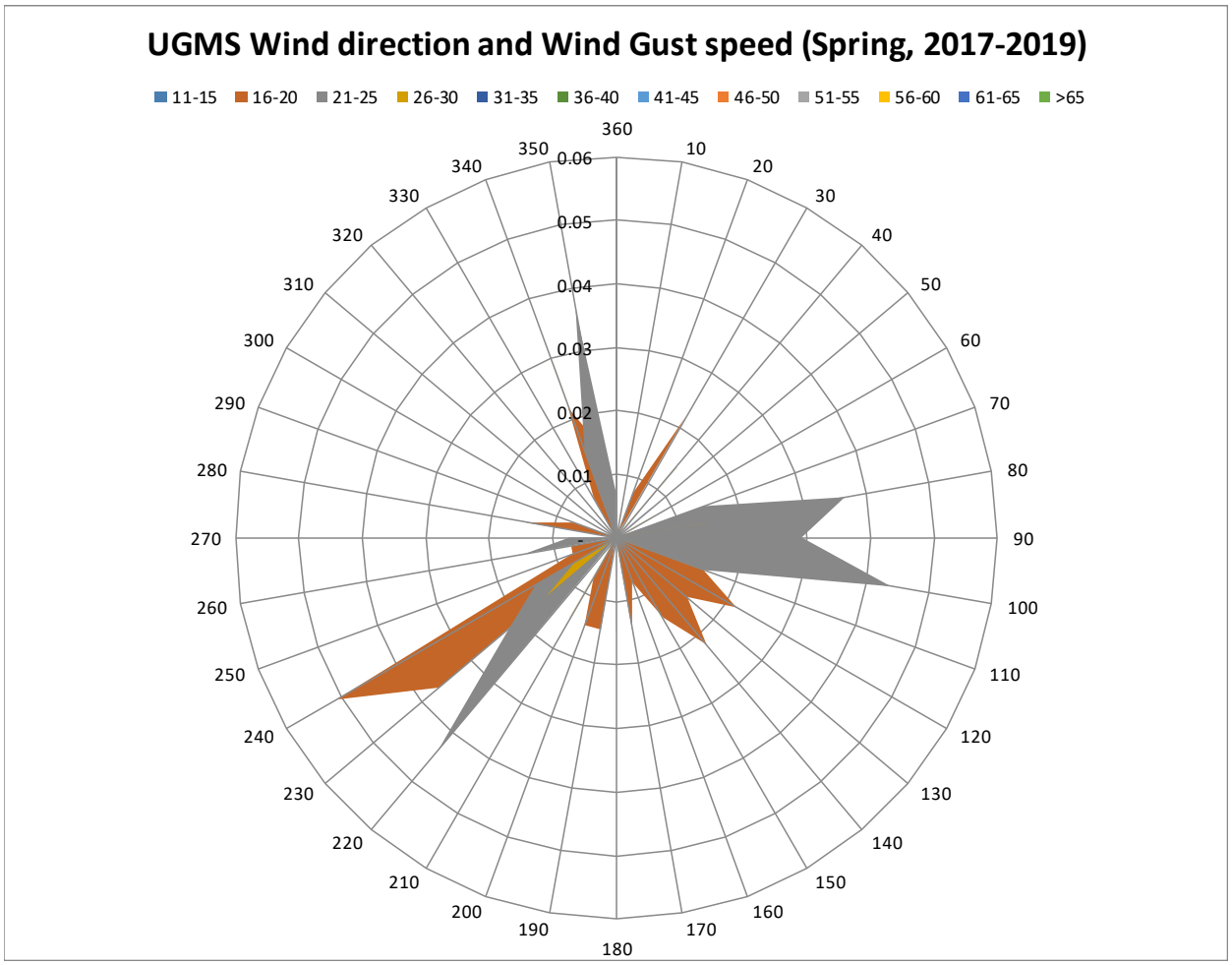
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS SEASON: SPRING PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 13248 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | 0.01 | 0.01 | - | - | - | - | - | 0.01 |
| 10 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 30 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 40 | - | - | 0.01 | 0.01 | - | - | - | - | - | 0.03 |
| 50 | - | - | - | - | 0.01 | - | - | - | - | 0.01 |
| 60 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 70 | - | 0.01 | 0.01 | - | - | - | - | - | - | 0.02 |
| 80 | - | 0.01 | 0.04 | 0.01 | - | - | - | - | - | 0.07 |
| 90 | - | 0.01 | 0.03 | - | - | - | - | - | - | 0.04 |
| 100 | - | - | 0.04 | - | - | - | - | - | - | 0.04 |
| 110 | - | 0.01 | 0.01 | 0.01 | - | - | - | - | - | 0.04 |
| 120 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 130 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 140 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 150 | - | 0.01 | - | - | 0.01 | - | - | - | - | 0.02 |
| 160 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 170 | - | 0.01 | - | 0.01 | - | - | - | - | - | 0.02 |
| 180 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 190 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 200 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 210 | - | 0.01 | - | 0.01 | - | - | - | - | - | 0.02 |
| 220 | - | - | 0.04 | - | - | - | - | - | - | 0.04 |
| 230 | - | 0.04 | 0.02 | 0.01 | - | - | - | - | - | 0.07 |
| 240 | - | 0.05 | 0.01 | 0.01 | - | - | - | - | - | 0.07 |
| 250 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 260 | - | 0.01 | 0.01 | - | - | - | - | - | - | 0.02 |
| 270 | 0.02 | - | 0.01 | - | - | - | - | - | - | 0.03 |
| 280 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 290 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 340 | - | 0.02 | 0.01 | 0.03 | - | - | - | - | - | 0.07 |
| 350 | - | 0.01 | 0.04 | - | - | - | - | - | - | 0.05 |
| TOTAL | 0.02 | 0.37 | 0.33 | 0.13 | 0.01 | - | - | - | - | 0.87 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (31-35 knots) corresponds to the Near gale and Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.01%).

The directions of maximum wind gusts are 050º and 150º.

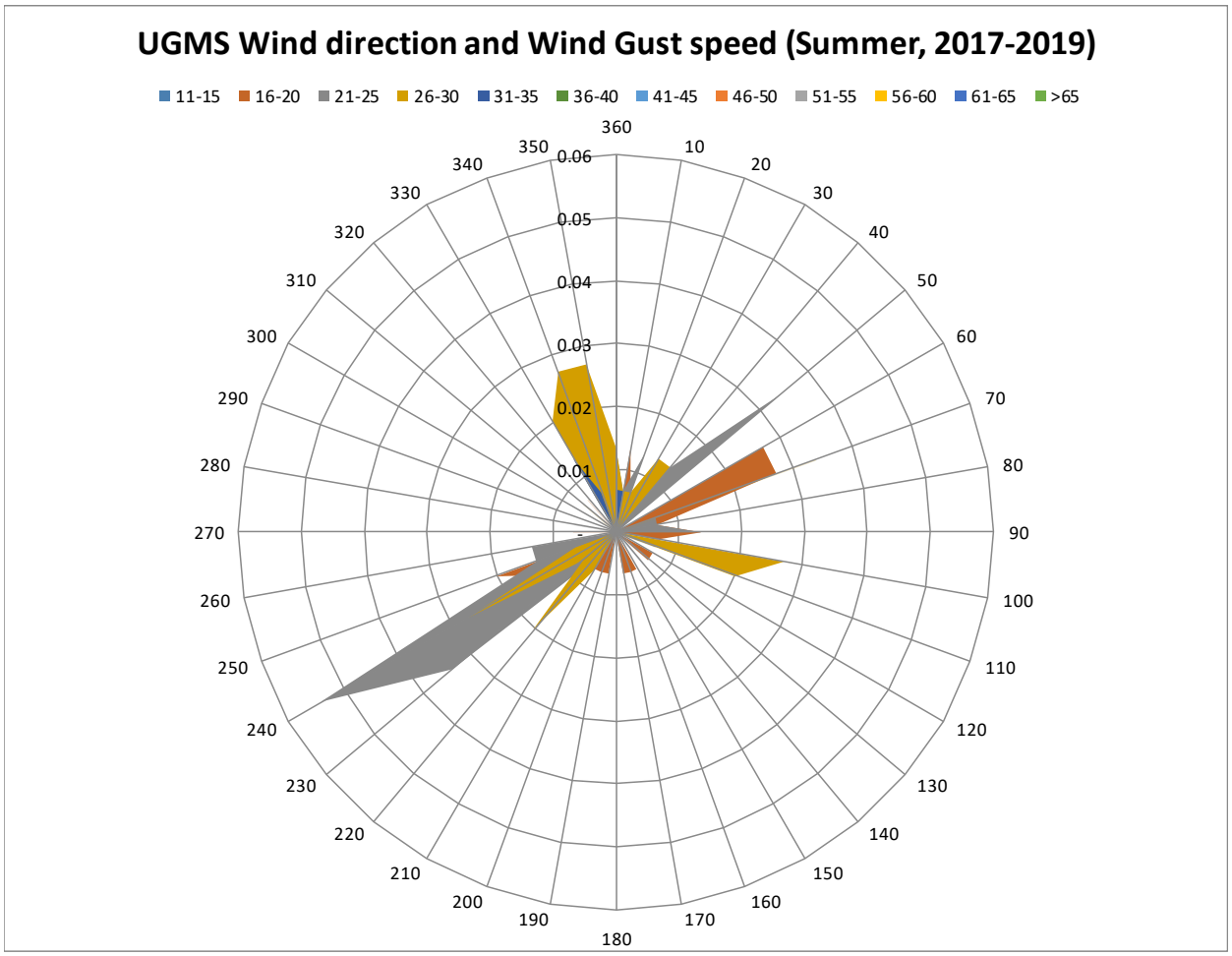
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS SEASON: SUMMER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 13248 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | 0.01 | 0.01 | 0.01 | - | - | - | - | 0.03 |
| 10 | - | 0.01 | 0.01 | 0.01 | 0.01 | - | - | - | - | 0.03 |
| 20 | - | 0.01 | 0.01 | 0.01 | - | - | - | - | - | 0.03 |
| 30 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 40 | - | 0.01 | 0.01 | 0.01 | - | - | - | - | - | 0.04 |
| 50 | - | - | 0.03 | - | - | - | - | - | - | 0.03 |
| 60 | - | 0.03 | - | - | - | - | - | - | - | 0.03 |
| 70 | - | 0.03 | 0.01 | 0.03 | - | - | - | - | - | 0.07 |
| 80 | - | 0.01 | 0.01 | - | - | - | - | - | - | 0.01 |
| 90 | - | 0.01 | 0.01 | - | - | - | - | - | - | 0.03 |
| 100 | - | 0.01 | - | 0.03 | - | - | - | - | - | 0.03 |
| 110 | - | - | 0.01 | 0.02 | 0.01 | - | - | - | - | 0.03 |
| 120 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 130 | - | 0.01 | 0.01 | - | - | - | - | - | - | 0.01 |
| 140 | 0.01 | - | - | - | - | - | - | - | - | 0.01 |
| 150 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 160 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 170 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 200 | - | 0.01 | - | - | 0.01 | - | - | - | - | 0.01 |
| 210 | 0.01 | 0.01 | 0.01 | 0.01 | - | - | - | - | - | 0.03 |
| 220 | - | 0.01 | 0.01 | 0.02 | - | - | - | - | - | 0.03 |
| 230 | 0.01 | 0.02 | 0.03 | 0.01 | 0.01 | - | - | - | - | 0.07 |
| 240 | - | 0.01 | 0.05 | 0.03 | - | - | - | - | - | 0.09 |
| 250 | 0.01 | 0.02 | 0.01 | 0.01 | - | - | - | - | - | 0.05 |
| 260 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 270 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 280 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 310 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 320 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 330 | - | - | - | 0.02 | 0.01 | - | - | - | - | 0.03 |
| 340 | - | 0.01 | 0.02 | 0.03 | 0.01 | - | - | - | - | 0.06 |
| 350 | - | 0.01 | 0.01 | 0.03 | - | - | - | - | - | 0.05 |
| TOTAL | 0.03 | 0.26 | 0.29 | 0.28 | 0.05 | - | - | - | - | 0.91 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (31-35 knots) corresponds to the Near gale and Gale according to “Beaufort wind force scale” (frequency of occurrence – 0.05%).

The directions of maximum wind gusts are 010º, 110º, 200º, 230º, 330º, 340º and 360º.

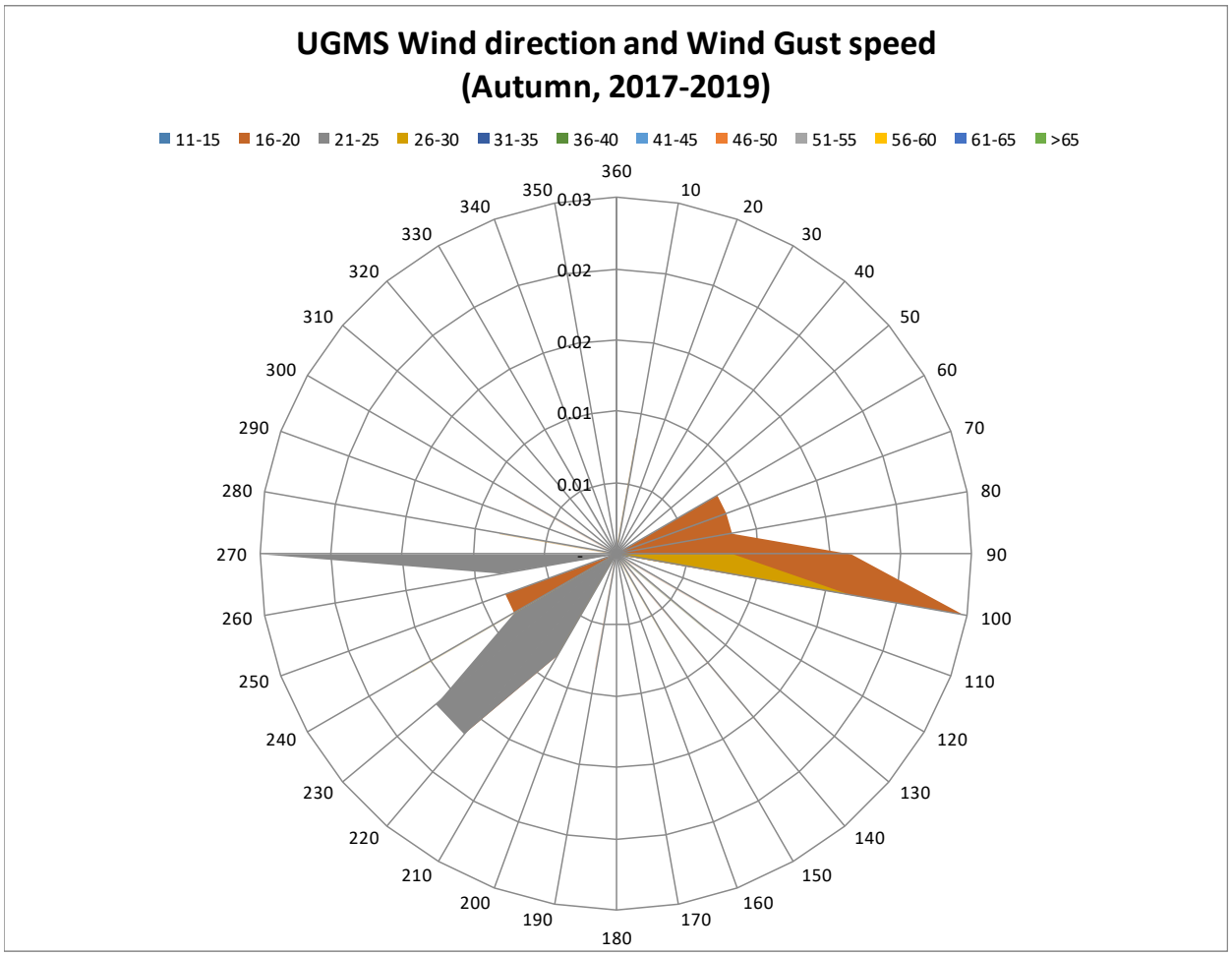
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL D**
**TABULAR FORM**

AERODROME: UGMS SEASON: AUTUMN PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 13104 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF OCCURRENCE OF CONCURRENT DIRECTIONS (IN 10º SECTORS) AND GUST SPEED WITHIN SPECIFIED RANGES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | WIND GUST SPEED (KT) | | | | | | | | | |
| | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | >50 | TOTAL |
| 360 | - | - | - | - | - | - | - | - | - | - |
| 10 | - | 0.01 | 0.01 | 0.01 | - | - | - | - | - | 0.02 |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 50 | - | - | - | - | - | - | - | - | - | - |
| 60 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 70 | - | 0.01 | 0.02 | - | - | - | - | - | - | 0.02 |
| 80 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 90 | - | 0.02 | 0.01 | 0.01 | - | - | - | - | - | 0.03 |
| 100 | - | 0.02 | 0.01 | 0.02 | - | - | - | - | - | 0.05 |
| 110 | - | - | - | - | - | - | - | - | - | - |
| 120 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 130 | 0.01 | - | - | 0.01 | - | - | - | - | - | 0.02 |
| 140 | - | 0.02 | - | - | - | - | - | - | - | 0.02 |
| 150 | - | - | - | 0.01 | - | - | - | - | - | 0.01 |
| 160 | - | - | - | - | - | - | - | - | - | - |
| 170 | - | - | - | - | - | - | - | - | - | - |
| 180 | - | - | - | - | - | - | - | - | - | - |
| 190 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 200 | - | - | - | - | - | - | - | - | - | - |
| 210 | - | 0.01 | 0.01 | 0.01 | - | - | - | - | - | 0.02 |
| 220 | - | 0.02 | 0.02 | - | - | - | - | - | - | 0.03 |
| 230 | 0.01 | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 240 | - | 0.01 | 0.01 | 0.02 | - | - | - | - | - | 0.03 |
| 250 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 260 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 270 | - | - | 0.02 | - | - | - | - | - | - | 0.02 |
| 280 | - | 0.01 | - | 0.01 | - | - | - | - | - | 0.02 |
| 290 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | 0.01 | - | - | - | - | - | - | - | 0.01 |
| 310 | - | - | - | - | - | - | - | - | - | - |
| 320 | - | - | - | - | - | - | - | - | - | - |
| 330 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| 340 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | 0.01 | - | - | - | - | - | - | 0.01 |
| TOTAL | 0.02 | 0.17 | 0.15 | 0.08 | - | - | - | - | - | 0.41 |




The strong wind (wind gust ≥41 knots) – not observed.

The maximum wind speed (26-30 knots) corresponds to the Strong breeze and Near gale according to “Beaufort wind force scale” (frequency of occurrence – 0.08%).

The directions of maximum wind gusts are 010º, 090º,100º, 130º, 150º, 210º, 240º and 280º.

## AERONAUTICAL CLIMATOLOGY

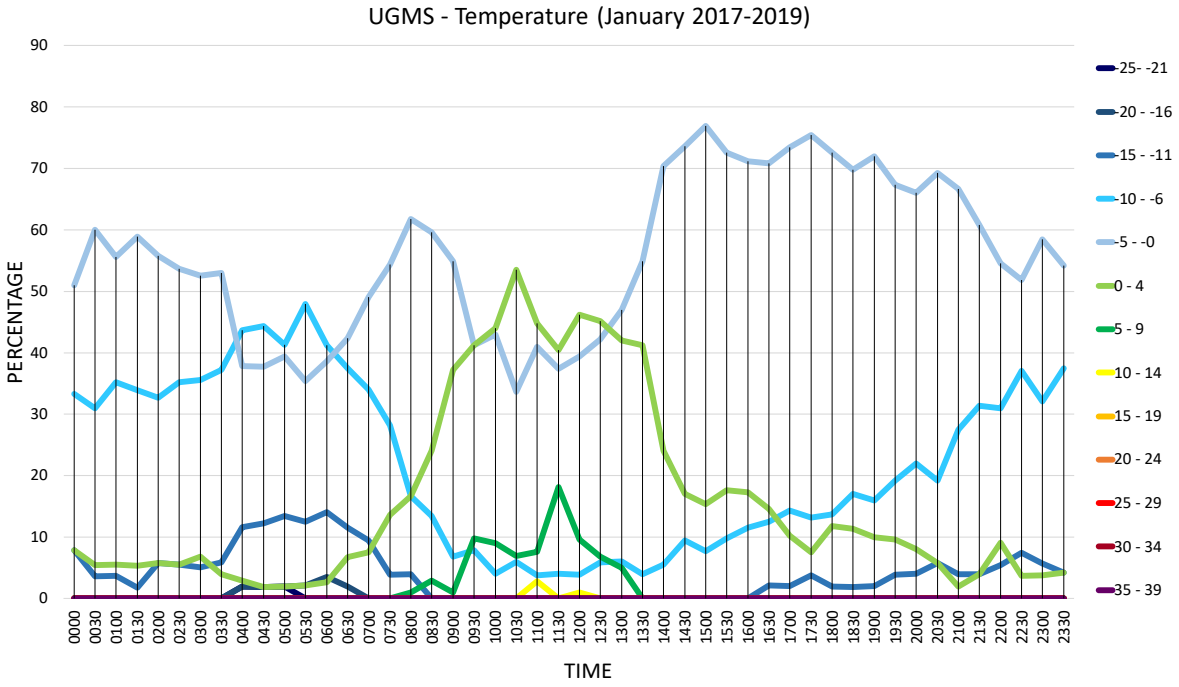
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: JANUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | 7.84 | 33.33 | 50.98 | 7.84 | - | - | - | - | - | - | - |
| 0030 | - | - | 3.64 | 30.91 | 60.00 | 5.45 | - | - | - | - | - | - | - |
| 0100 | - | - | 3.70 | 35.19 | 55.56 | 5.56 | - | - | - | - | - | - | - |
| 0130 | - | - | 1.79 | 33.93 | 58.93 | 5.36 | - | - | - | - | - | - | - |
| 0200 | - | - | 5.77 | 32.69 | 55.77 | 5.77 | - | - | - | - | - | - | - |
| 0230 | - | - | 5.56 | 35.19 | 53.70 | 5.56 | - | - | - | - | - | - | - |
| 0300 | - | - | 5.08 | 35.59 | 52.54 | 6.78 | - | - | - | - | - | - | - |
| 0330 | - | - | 5.88 | 37.25 | 52.94 | 3.92 | - | - | - | - | - | - | - |
| 0400 | 1.94 | 1.94 | 11.65 | 43.69 | 37.86 | 2.91 | - | - | - | - | - | - | - |
| 0430 | 1.89 | 1.89 | 12.26 | 44.34 | 37.74 | 1.89 | - | - | - | - | - | - | - |
| 0500 | 1.92 | 1.92 | 13.46 | 41.35 | 39.42 | 1.92 | - | - | - | - | - | - | - |
| 0530 | - | 2.08 | 12.50 | 47.92 | 35.42 | 2.08 | - | - | - | - | - | - | - |
| 0600 | - | 3.51 | 14.04 | 41.23 | 38.60 | 2.63 | - | - | - | - | - | - | - |
| 0630 | - | 1.92 | 11.54 | 37.50 | 42.31 | 6.73 | - | - | - | - | - | - | - |
| 0700 | - | - | 9.43 | 33.96 | 49.06 | 7.55 | - | - | - | - | - | - | - |
| 0730 | - | - | 3.88 | 28.16 | 54.37 | 13.59 | - | - | - | - | - | - | - |
| 0800 | - | - | 3.92 | 16.67 | 61.76 | 16.67 | 0.98 | - | - | - | - | - | - |
| 0830 | - | - | - | 13.46 | 59.62 | 24.04 | 2.88 | - | - | - | - | - | - |
| 0900 | - | - | - | 6.86 | 54.90 | 37.25 | 0.98 | - | - | - | - | - | - |
| 0930 | - | - | - | 7.84 | 41.18 | 41.18 | 9.80 | - | - | - | - | - | - |
| 1000 | - | - | - | 4.00 | 43.00 | 44.00 | 9.00 | - | - | - | - | - | - |
| 1030 | - | - | - | 5.94 | 33.66 | 53.47 | 6.93 | - | - | - | - | - | - |
| 1100 | - | - | - | 3.81 | 40.95 | 44.76 | 7.62 | 2.86 | - | - | - | - | - |
| 1130 | - | - | - | 4.04 | 37.37 | 40.40 | 18.18 | - | - | - | - | - | - |
| 1200 | - | - | - | 3.85 | 39.42 | 46.15 | 9.62 | 0.96 | - | - | - | - | - |
| 1230 | - | - | - | 5.88 | 42.16 | 45.10 | 6.86 | - | - | - | - | - | - |
| 1300 | - | - | - | 6.00 | 47.00 | 42.00 | 5.00 | - | - | - | - | - | - |
| 1330 | - | - | - | 3.92 | 54.90 | 41.18 | - | - | - | - | - | - | - |
| 1400 | - | - | - | 5.56 | 70.37 | 24.07 | - | - | - | - | - | - | - |
| 1430 | - | - | - | 9.43 | 73.58 | 16.98 | - | - | - | - | - | - | - |
| 1500 | - | - | - | 7.69 | 76.92 | 15.38 | - | - | - | - | - | - | - |
| 1530 | - | - | - | 9.80 | 72.55 | 17.65 | - | - | - | - | - | - | - |
| 1600 | - | - | - | 11.54 | 71.15 | 17.31 | - | - | - | - | - | - | - |
| 1630 | - | - | 2.08 | 12.50 | 70.83 | 14.58 | - | - | - | - | - | - | - |
| 1700 | - | - | 2.04 | 14.29 | 73.47 | 10.20 | - | - | - | - | - | - | - |
| 1730 | - | - | 3.77 | 13.21 | 75.47 | 7.55 | - | - | - | - | - | - | - |
| 1800 | - | - | 1.96 | 13.73 | 72.55 | 11.76 | - | - | - | - | - | - | - |
| 1830 | - | - | 1.89 | 16.98 | 69.81 | 11.32 | - | - | - | - | - | - | - |
| 1900 | - | - | 2.00 | 16.00 | 72.00 | 10.00 | - | - | - | - | - | - | - |
| 1930 | - | - | 3.85 | 19.23 | 67.31 | 9.62 | - | - | - | - | - | - | - |
| 2000 | - | - | 4.00 | 22.00 | 66.00 | 8.00 | - | - | - | - | - | - | - |
| 2030 | - | - | 5.77 | 19.23 | 69.23 | 5.77 | - | - | - | - | - | - | - |
| 2100 | - | - | 3.92 | 27.45 | 66.67 | 1.96 | - | - | - | - | - | - | - |
| 2130 | - | - | 3.92 | 31.37 | 60.78 | 3.92 | - | - | - | - | - | - | - |
| 2200 | - | - | 5.45 | 30.91 | 54.55 | 9.09 | - | - | - | - | - | - | - |
| 2230 | - | - | 7.41 | 37.04 | 51.85 | 3.70 | - | - | - | - | - | - | - |
| 2300 | - | - | 5.66 | 32.08 | 58.49 | 3.77 | - | - | - | - | - | - | - |
| 2330 | - | - | 4.17 | 37.50 | 54.17 | 4.17 | - | - | - | - | - | - | - |
| MEAN | 0.17 | 0.40 | 4.26 | 21.95 | 52.48 | 18.35 | 2.28 | 0.12 | - | - | - | - | - |




Min temperature -25º to -21º (time 0400 UTC) – 1.94%

Max temperature 10º to 14º (time 1100 UTC) – 2.86%

Mean dominating temperature -5º to 0º – 52.48%

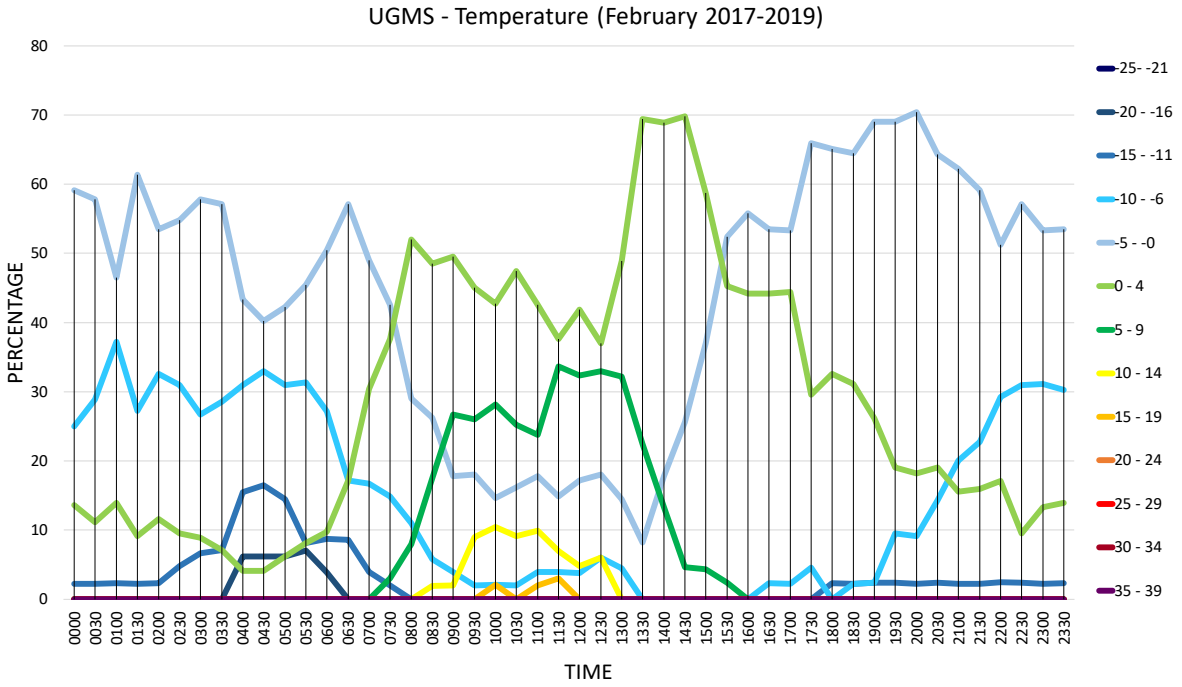
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: FEBRUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4032 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | 2.27 | 25.00 | 59.09 | 13.64 | - | - | - | - | - | - | - |
| 0030 | - | - | 2.22 | 28.89 | 57.78 | 11.11 | - | - | - | - | - | - | - |
| 0100 | - | - | 2.33 | 37.21 | 46.51 | 13.95 | - | - | - | - | - | - | - |
| 0130 | - | - | 2.27 | 27.27 | 61.36 | 9.09 | - | - | - | - | - | - | - |
| 0200 | - | - | 2.33 | 32.56 | 53.49 | 11.63 | - | - | - | - | - | - | - |
| 0230 | - | - | 4.76 | 30.95 | 54.76 | 9.52 | - | - | - | - | - | - | - |
| 0300 | - | - | 6.67 | 26.67 | 57.78 | 8.89 | - | - | - | - | - | - | - |
| 0330 | - | - | 7.14 | 28.57 | 57.14 | 7.14 | - | - | - | - | - | - | - |
| 0400 | - | 6.19 | 15.46 | 30.93 | 43.30 | 4.12 | - | - | - | - | - | - | - |
| 0430 | - | 6.19 | 16.49 | 32.99 | 40.21 | 4.12 | - | - | - | - | - | - | - |
| 0500 | - | 6.19 | 14.43 | 30.93 | 42.27 | 6.19 | - | - | - | - | - | - | - |
| 0530 | - | 7.07 | 8.08 | 31.31 | 45.45 | 8.08 | - | - | - | - | - | - | - |
| 0600 | - | 3.88 | 8.74 | 27.18 | 50.49 | 9.71 | - | - | - | - | - | - | - |
| 0630 | - | - | 8.57 | 17.14 | 57.14 | 17.14 | - | - | - | - | - | - | - |
| 0700 | - | - | 3.92 | 16.67 | 49.02 | 30.39 | - | - | - | - | - | - | - |
| 0730 | - | - | 1.98 | 14.85 | 42.57 | 37.62 | 2.97 | - | - | - | - | - | - |
| 0800 | - | - | - | 11.00 | 29.00 | 52.00 | 8.00 | - | - | - | - | - | - |
| 0830 | - | - | - | 5.83 | 26.21 | 48.54 | 17.48 | 1.94 | - | - | - | - | - |
| 0900 | - | - | - | 3.96 | 17.82 | 49.50 | 26.73 | 1.98 | - | - | - | - | - |
| 0930 | - | - | - | 2.00 | 18.00 | 45.00 | 26.00 | 9.00 | - | - | - | - | - |
| 1000 | - | - | - | 2.08 | 14.58 | 42.71 | 28.13 | 10.42 | 2.08 | - | - | - | - |
| 1030 | - | - | - | 2.02 | 16.16 | 47.47 | 25.25 | 9.09 | - | - | - | - | - |
| 1100 | - | - | - | 3.96 | 17.82 | 42.57 | 23.76 | 9.90 | 1.98 | - | - | - | - |
| 1130 | - | - | - | 3.96 | 14.85 | 37.62 | 33.66 | 6.93 | 2.97 | - | - | - | - |
| 1200 | - | - | - | 3.81 | 17.14 | 41.90 | 32.38 | 4.76 | - | - | - | - | - |
| 1230 | - | - | - | 6.00 | 18.00 | 37.00 | 33.00 | 6.00 | - | - | - | - | - |
| 1300 | - | - | - | 4.44 | 14.44 | 48.89 | 32.22 | - | - | - | - | - | - |
| 1330 | - | - | - | - | 8.16 | 69.39 | 22.45 | - | - | - | - | - | - |
| 1400 | - | - | - | - | 17.78 | 68.89 | 13.33 | - | - | - | - | - | - |
| 1430 | - | - | - | - | 25.58 | 69.77 | 4.65 | - | - | - | - | - | - |
| 1500 | - | - | - | - | 36.96 | 58.70 | 4.35 | - | - | - | - | - | - |
| 1530 | - | - | - | - | 52.38 | 45.24 | 2.38 | - | - | - | - | - | - |
| 1600 | - | - | - | - | 55.81 | 44.19 | - | - | - | - | - | - | - |
| 1630 | - | - | - | 2.33 | 53.49 | 44.19 | - | - | - | - | - | - | - |
| 1700 | - | - | - | 2.22 | 53.33 | 44.44 | - | - | - | - | - | - | - |
| 1730 | - | - | - | 4.55 | 65.91 | 29.55 | - | - | - | - | - | - | - |
| 1800 | - | - | 2.33 | - | 65.12 | 32.56 | - | - | - | - | - | - | - |
| 1830 | - | - | 2.22 | 2.22 | 64.44 | 31.11 | - | - | - | - | - | - | - |
| 1900 | - | - | 2.38 | 2.38 | 69.05 | 26.19 | - | - | - | - | - | - | - |
| 1930 | - | - | 2.38 | 9.52 | 69.05 | 19.05 | - | - | - | - | - | - | - |
| 2000 | - | - | 2.27 | 9.09 | 70.45 | 18.18 | - | - | - | - | - | - | - |
| 2030 | - | - | 2.38 | 14.29 | 64.29 | 19.05 | - | - | - | - | - | - | - |
| 2100 | - | - | 2.22 | 20.00 | 62.22 | 15.56 | - | - | - | - | - | - | - |
| 2130 | - | - | 2.27 | 22.73 | 59.09 | 15.91 | - | - | - | - | - | - | - |
| 2200 | - | - | 2.44 | 29.27 | 51.22 | 17.07 | - | - | - | - | - | - | - |
| 2230 | - | - | 2.38 | 30.95 | 57.14 | 9.52 | - | - | - | - | - | - | - |
| 2300 | - | - | 2.22 | 31.11 | 53.33 | 13.33 | - | - | - | - | - | - | - |
| 2330 | - | - | 2.33 | 30.23 | 53.49 | 13.95 | - | - | - | - | - | - | - |
| MEAN | - | 0.92 | 3.22 | 14.04 | 39.58 | 30.32 | 9.80 | 1.90 | 0.22 | - | - | - | - |




Min temperature -20º to -16º (time 0530 UTC) – 7.07%

Max temperature 15º to 19º (time 1130 UTC) – 2.97%

Mean dominating temperature -5º to 0º – 39.58%

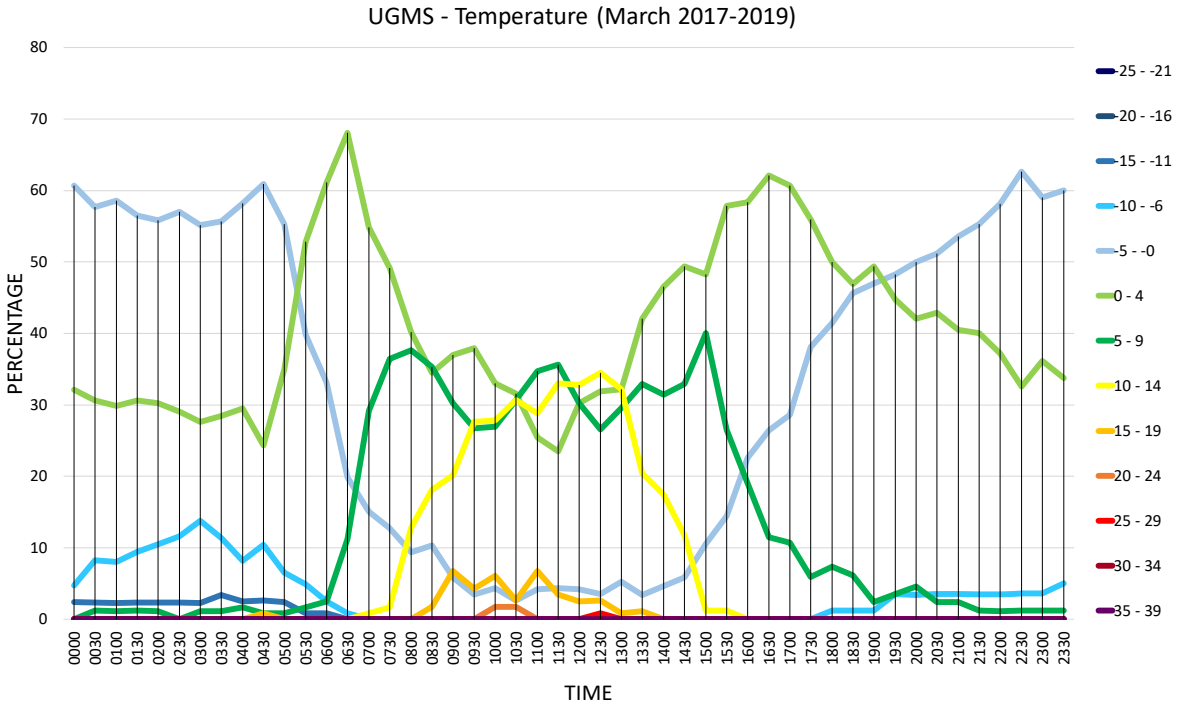
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: MARCH PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | 2.38 | 4.76 | 60.71 | 32.14 | - | - | - | - | - | - | - |
| 0030 | - | - | 2.35 | 8.24 | 57.65 | 30.59 | 1.18 | - | - | - | - | - | - |
| 0100 | - | - | 2.30 | 8.05 | 58.62 | 29.89 | 1.15 | - | - | - | - | - | - |
| 0130 | - | - | 2.35 | 9.41 | 56.47 | 30.59 | 1.18 | - | - | - | - | - | - |
| 0200 | - | - | 2.33 | 10.47 | 55.81 | 30.23 | 1.16 | - | - | - | - | - | - |
| 0230 | - | - | 2.33 | 11.63 | 56.98 | 29.07 | - | - | - | - | - | - | - |
| 0300 | - | - | 2.30 | 13.79 | 55.17 | 27.59 | 1.15 | - | - | - | - | - | - |
| 0330 | - | - | 3.41 | 11.36 | 55.68 | 28.41 | 1.14 | - | - | - | - | - | - |
| 0400 | - | - | 2.46 | 8.20 | 58.20 | 29.51 | 1.64 | - | - | - | - | - | - |
| 0430 | - | - | 2.61 | 10.43 | 60.87 | 24.35 | 0.87 | - | 0.87 | - | - | - | - |
| 0500 | - | - | 2.44 | 6.50 | 55.28 | 34.96 | 0.81 | - | - | - | - | - | - |
| 0530 | - | - | 0.81 | 4.88 | 39.84 | 52.85 | 1.63 | - | - | - | - | - | - |
| 0600 | - | - | 0.83 | 2.48 | 33.06 | 61.16 | 2.48 | - | - | - | - | - | - |
| 0630 | - | - | - | 0.86 | 19.83 | 68.10 | 11.21 | - | - | - | - | - | - |
| 0700 | - | - | - | - | 15.04 | 54.87 | 29.20 | 0.88 | - | - | - | - | - |
| 0730 | - | - | - | - | 12.71 | 49.15 | 36.44 | 1.69 | - | - | - | - | - |
| 0800 | - | - | - | - | 9.40 | 40.17 | 37.61 | 12.82 | - | - | - | - | - |
| 0830 | - | - | - | - | 10.34 | 34.48 | 35.34 | 18.10 | 1.72 | - | - | - | - |
| 0900 | - | - | - | - | 5.88 | 36.97 | 30.25 | 20.17 | 6.72 | - | - | - | - |
| 0930 | - | - | - | - | 3.45 | 37.93 | 26.72 | 27.59 | 4.31 | - | - | - | - |
| 1000 | - | - | - | - | 4.35 | 33.04 | 26.96 | 27.83 | 6.09 | 1.74 | - | - | - |
| 1030 | - | - | - | - | 2.63 | 31.58 | 30.70 | 30.70 | 2.63 | 1.75 | - | - | - |
| 1100 | - | - | - | - | 4.24 | 25.42 | 34.75 | 28.81 | 6.78 | - | - | - | - |
| 1130 | - | - | - | - | 4.35 | 23.48 | 35.65 | 33.04 | 3.48 | - | - | - | - |
| 1200 | - | - | - | - | 4.20 | 30.25 | 30.25 | 32.77 | 2.52 | - | - | - | - |
| 1230 | - | - | - | - | 3.54 | 31.86 | 26.55 | 34.51 | 2.65 | - | 0.88 | - | - |
| 1300 | - | - | - | - | 5.22 | 32.17 | 29.57 | 32.17 | 0.87 | - | - | - | - |
| 1330 | - | - | - | - | 3.41 | 42.05 | 32.95 | 20.45 | 1.14 | - | - | - | - |
| 1400 | - | - | - | - | 4.65 | 46.51 | 31.40 | 17.44 | - | - | - | - | - |
| 1430 | - | - | - | - | 5.88 | 49.41 | 32.94 | 11.76 | - | - | - | - | - |
| 1500 | - | - | - | - | 10.59 | 48.24 | 40.00 | 1.18 | - | - | - | - | - |
| 1530 | - | - | - | - | 14.46 | 57.83 | 26.51 | 1.20 | - | - | - | - | - |
| 1600 | - | - | - | - | 22.62 | 58.33 | 19.05 | - | - | - | - | - | - |
| 1630 | - | - | - | - | 26.44 | 62.07 | 11.49 | - | - | - | - | - | - |
| 1700 | - | - | - | - | 28.57 | 60.71 | 10.71 | - | - | - | - | - | - |
| 1730 | - | - | - | - | 38.10 | 55.95 | 5.95 | - | - | - | - | - | - |
| 1800 | - | - | - | 1.22 | 41.46 | 50.00 | 7.32 | - | - | - | - | - | - |
| 1830 | - | - | - | 1.23 | 45.68 | 46.91 | 6.17 | - | - | - | - | - | - |
| 1900 | - | - | - | 1.20 | 46.99 | 49.40 | 2.41 | - | - | - | - | - | - |
| 1930 | - | - | - | 3.53 | 48.24 | 44.71 | 3.53 | - | - | - | - | - | - |
| 2000 | - | - | - | 3.41 | 50.00 | 42.05 | 4.55 | - | - | - | - | - | - |
| 2030 | - | - | - | 3.57 | 51.19 | 42.86 | 2.38 | - | - | - | - | - | - |
| 2100 | - | - | - | 3.57 | 53.57 | 40.48 | 2.38 | - | - | - | - | - | - |
| 2130 | - | - | - | 3.53 | 55.29 | 40.00 | 1.18 | - | - | - | - | - | - |
| 2200 | - | - | - | 3.49 | 58.14 | 37.21 | 1.16 | - | - | - | - | - | - |
| 2230 | - | - | - | 3.61 | 62.65 | 32.53 | 1.20 | - | - | - | - | - | - |
| 2300 | - | - | - | 3.61 | 59.04 | 36.14 | 1.20 | - | - | - | - | - | - |
| 2330 | - | - | - | 5.00 | 60.00 | 33.75 | 1.25 | - | - | - | - | - | - |
| MEAN | - | - | 0.60 | 2.94 | 31.43 | 40.31 | 15.22 | 8.41 | 0.98 | 0.09 | 0.02 | - | - |




Min temperature -15º to -11º (time 0330 UTC) – 3.41%

Max temperature 25º to 29º (time 1230 UTC) – 0.88%

Mean dominating temperature 0º to 4º – 40.31%

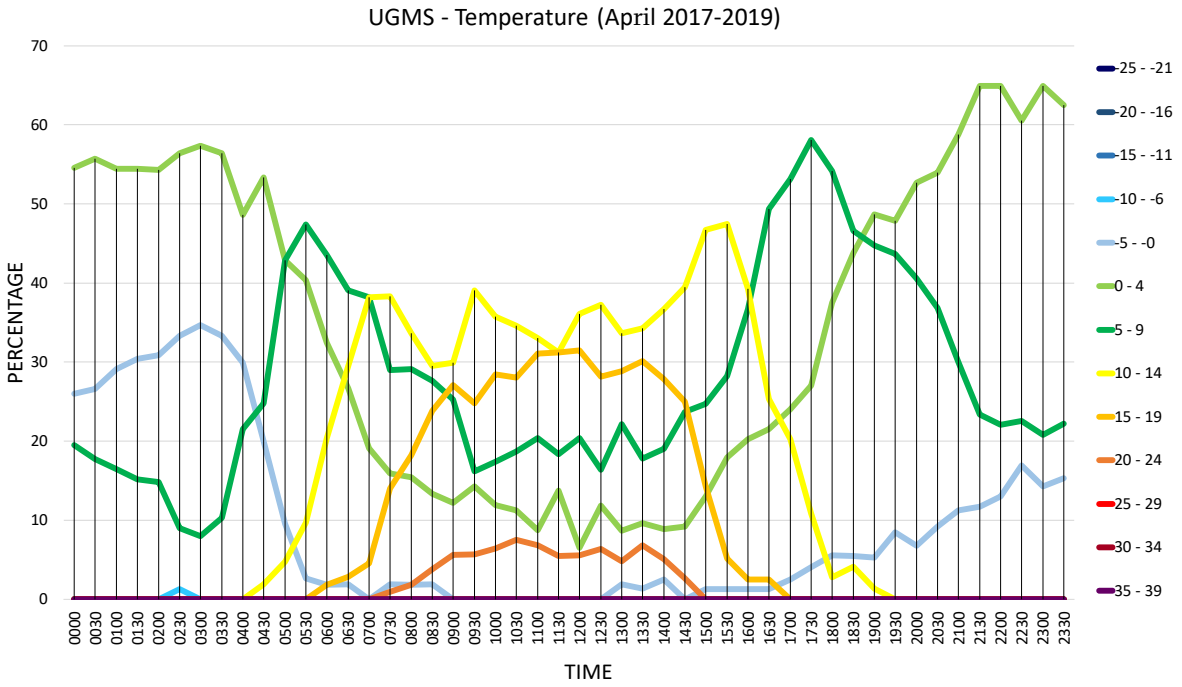
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: APRIL PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | - | - | 25.97 | 54.55 | 19.48 | - | - | - | - | - | - |
| 0030 | - | - | - | - | 26.58 | 55.70 | 17.72 | - | - | - | - | - | - |
| 0100 | - | - | - | - | 29.11 | 54.43 | 16.46 | - | - | - | - | - | - |
| 0130 | - | - | - | - | 30.38 | 54.43 | 15.19 | - | - | - | - | - | - |
| 0200 | - | - | - | - | 30.86 | 54.32 | 14.81 | - | - | - | - | - | - |
| 0230 | - | - | - | 1.28 | 33.33 | 56.41 | 8.97 | - | - | - | - | - | - |
| 0300 | - | - | - | - | 34.67 | 57.33 | 8.00 | - | - | - | - | - | - |
| 0330 | - | - | - | - | 33.33 | 56.41 | 10.26 | - | - | - | - | - | - |
| 0400 | - | - | - | - | 29.91 | 48.60 | 21.50 | - | - | - | - | - | - |
| 0430 | - | - | - | - | 20.00 | 53.33 | 24.76 | 1.90 | - | - | - | - | - |
| 0500 | - | - | - | - | 9.52 | 42.86 | 42.86 | 4.76 | - | - | - | - | - |
| 0530 | - | - | - | - | 2.63 | 40.35 | 47.37 | 9.65 | - | - | - | - | - |
| 0600 | - | - | - | - | 1.85 | 32.41 | 43.52 | 20.37 | 1.85 | - | - | - | - |
| 0630 | - | - | - | - | 1.90 | 26.67 | 39.05 | 29.52 | 2.86 | - | - | - | - |
| 0700 | - | - | - | - | - | 19.09 | 38.18 | 38.18 | 4.55 | - | - | - | - |
| 0730 | - | - | - | - | 1.87 | 15.89 | 28.97 | 38.32 | 14.02 | 0.93 | - | - | - |
| 0800 | - | - | - | - | 1.82 | 15.45 | 29.09 | 33.64 | 18.18 | 1.82 | - | - | - |
| 0830 | - | - | - | - | 1.90 | 13.33 | 27.62 | 29.52 | 23.81 | 3.81 | - | - | - |
| 0900 | - | - | - | - | - | 12.15 | 25.23 | 29.91 | 27.10 | 5.61 | - | - | - |
| 0930 | - | - | - | - | - | 14.29 | 16.19 | 39.05 | 24.76 | 5.71 | - | - | - |
| 1000 | - | - | - | - | - | 11.93 | 17.43 | 35.78 | 28.44 | 6.42 | - | - | - |
| 1030 | - | - | - | - | - | 11.21 | 18.69 | 34.58 | 28.04 | 7.48 | - | - | - |
| 1100 | - | - | - | - | - | 8.74 | 20.39 | 33.01 | 31.07 | 6.80 | - | - | - |
| 1130 | - | - | - | - | - | 13.76 | 18.35 | 31.19 | 31.19 | 5.50 | - | - | - |
| 1200 | - | - | - | - | - | 6.48 | 20.37 | 36.11 | 31.48 | 5.56 | - | - | - |
| 1230 | - | - | - | - | - | 11.82 | 16.36 | 37.27 | 28.18 | 6.36 | - | - | - |
| 1300 | - | - | - | - | 1.92 | 8.65 | 22.12 | 33.65 | 28.85 | 4.81 | - | - | - |
| 1330 | - | - | - | - | 1.37 | 9.59 | 17.81 | 34.25 | 30.14 | 6.85 | - | - | - |
| 1400 | - | - | - | - | 2.53 | 8.86 | 18.99 | 36.71 | 27.85 | 5.06 | - | - | - |
| 1430 | - | - | - | - | - | 9.21 | 23.68 | 39.47 | 25.00 | 2.63 | - | - | - |
| 1500 | - | - | - | - | 1.30 | 12.99 | 24.68 | 46.75 | 14.29 | - | - | - | - |
| 1530 | - | - | - | - | 1.28 | 17.95 | 28.21 | 47.44 | 5.13 | - | - | - | - |
| 1600 | - | - | - | - | 1.27 | 20.25 | 36.71 | 39.24 | 2.53 | - | - | - | - |
| 1630 | - | - | - | - | 1.27 | 21.52 | 49.37 | 25.32 | 2.53 | - | - | - | - |
| 1700 | - | - | - | - | 2.53 | 24.05 | 53.16 | 20.25 | - | - | - | - | - |
| 1730 | - | - | - | - | 4.05 | 27.03 | 58.11 | 10.81 | - | - | - | - | - |
| 1800 | - | - | - | - | 5.56 | 37.50 | 54.17 | 2.78 | - | - | - | - | - |
| 1830 | - | - | - | - | 5.48 | 43.84 | 46.58 | 4.11 | - | - | - | - | - |
| 1900 | - | - | - | - | 5.26 | 48.68 | 44.74 | 1.32 | - | - | - | - | - |
| 1930 | - | - | - | - | 8.45 | 47.89 | 43.66 | - | - | - | - | - | - |
| 2000 | - | - | - | - | 6.76 | 52.70 | 40.54 | - | - | - | - | - | - |
| 2030 | - | - | - | - | 9.21 | 53.95 | 36.84 | - | - | - | - | - | - |
| 2100 | - | - | - | - | 11.25 | 58.75 | 30.00 | - | - | - | - | - | - |
| 2130 | - | - | - | - | 11.69 | 64.94 | 23.38 | - | - | - | - | - | - |
| 2200 | - | - | - | - | 12.99 | 64.94 | 22.08 | - | - | - | - | - | - |
| 2230 | - | - | - | - | 16.90 | 60.56 | 22.54 | - | - | - | - | - | - |
| 2300 | - | - | - | - | 14.29 | 64.94 | 20.78 | - | - | - | - | - | - |
| 2330 | - | - | - | - | 15.28 | 62.50 | 22.22 | - | - | - | - | - | - |
| MEAN | - | - | - | 0.02 | 8.77 | 32.82 | 27.90 | 18.62 | 10.08 | 1.79 | - | - | - |




Min temperature -10º to -6º (time 0230 UTC) – 1.28%

Max temperature 20º to 24º (time 1030 UTC) – 7.48%

Mean dominating temperature 0º to 4º – 32.82%

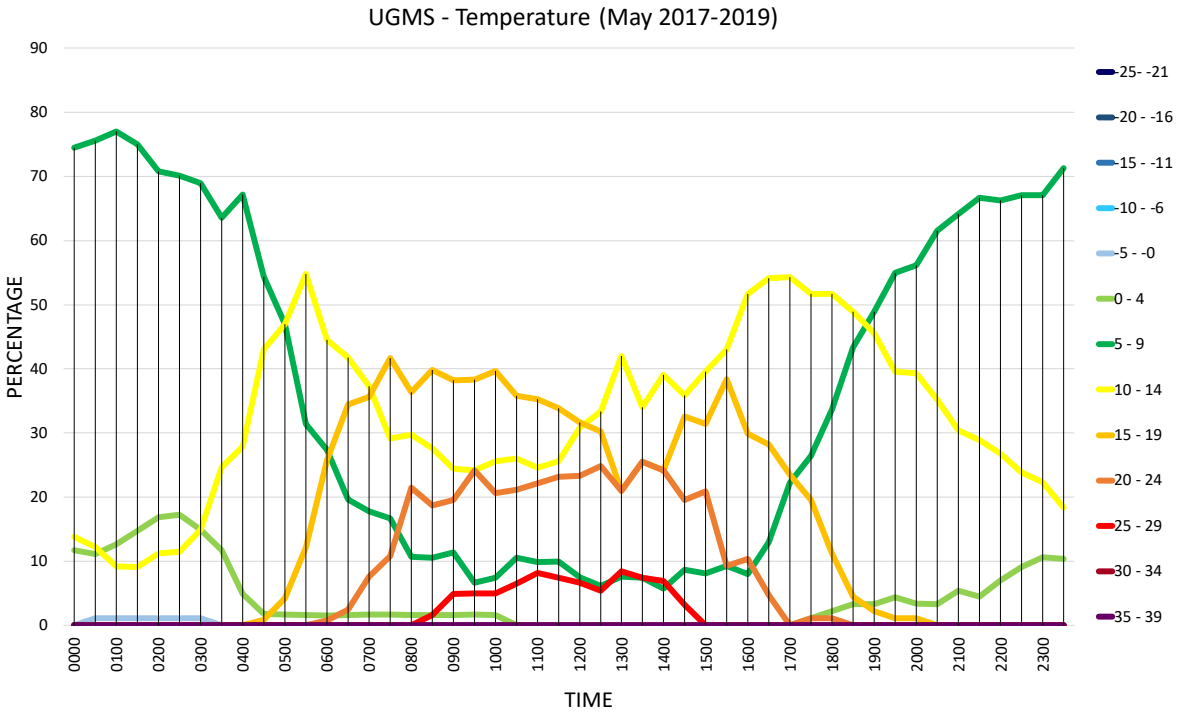
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: MAY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | - | - | - | 11.70 | 74.47 | 13.83 | - | - | - | - | - |
| 0030 | - | - | - | - | 1.11 | 11.11 | 75.56 | 12.22 | - | - | - | - | - |
| 0100 | - | - | - | - | 1.15 | 12.64 | 77.01 | 9.20 | - | - | - | - | - |
| 0130 | - | - | - | - | 1.14 | 14.77 | 75.00 | 9.09 | - | - | - | - | - |
| 0200 | - | - | - | - | 1.12 | 16.85 | 70.79 | 11.24 | - | - | - | - | - |
| 0230 | - | - | - | - | 1.15 | 17.24 | 70.11 | 11.49 | - | - | - | - | - |
| 0300 | - | - | - | - | 1.15 | 14.94 | 68.97 | 14.94 | - | - | - | - | - |
| 0330 | - | - | - | - | - | 11.76 | 63.53 | 24.71 | - | - | - | - | - |
| 0400 | - | - | - | - | - | 4.92 | 67.21 | 27.87 | - | - | - | - | - |
| 0430 | - | - | - | - | - | 1.75 | 54.39 | 42.98 | 0.88 | - | - | - | - |
| 0500 | - | - | - | - | - | 1.71 | 47.01 | 47.01 | 4.27 | - | - | - | - |
| 0530 | - | - | - | - | - | 1.61 | 31.45 | 54.84 | 12.10 | - | - | - | - |
| 0600 | - | - | - | - | - | 1.56 | 27.34 | 44.53 | 25.78 | 0.78 | - | - | - |
| 0630 | - | - | - | - | - | 1.64 | 19.67 | 41.80 | 34.43 | 2.46 | - | - | - |
| 0700 | - | - | - | - | - | 1.69 | 17.80 | 37.29 | 35.59 | 7.63 | - | - | - |
| 0730 | - | - | - | - | - | 1.67 | 16.67 | 29.17 | 41.67 | 10.83 | - | - | - |
| 0800 | - | - | - | - | - | 1.65 | 10.74 | 29.75 | 36.36 | 21.49 | - | - | - |
| 0830 | - | - | - | - | - | 1.63 | 10.57 | 27.64 | 39.84 | 18.70 | 1.63 | - | - |
| 0900 | - | - | - | - | - | 1.63 | 11.38 | 24.39 | 38.21 | 19.51 | 4.88 | - | - |
| 0930 | - | - | - | - | - | 1.67 | 6.67 | 24.17 | 38.33 | 24.17 | 5.00 | - | - |
| 1000 | - | - | - | - | - | 1.65 | 7.44 | 25.62 | 39.67 | 20.66 | 4.96 | - | - |
| 1030 | - | - | - | - | - | - | 10.57 | 26.02 | 35.77 | 21.14 | 6.50 | - | - |
| 1100 | - | - | - | - | - | - | 9.84 | 24.59 | 35.25 | 22.13 | 8.20 | - | - |
| 1130 | - | - | - | - | - | - | 9.92 | 25.62 | 33.88 | 23.14 | 7.44 | - | - |
| 1200 | - | - | - | - | - | - | 7.50 | 30.83 | 31.67 | 23.33 | 6.67 | - | - |
| 1230 | - | - | - | - | - | - | 6.20 | 33.33 | 30.23 | 24.81 | 5.43 | - | - |
| 1300 | - | - | - | - | - | - | 7.56 | 42.02 | 21.01 | 21.01 | 8.40 | - | - |
| 1330 | - | - | - | - | - | - | 7.45 | 34.04 | 25.53 | 25.53 | 7.45 | - | - |
| 1400 | - | - | - | - | - | - | 5.75 | 39.08 | 24.14 | 24.14 | 6.90 | - | - |
| 1430 | - | - | - | - | - | - | 8.70 | 35.87 | 32.61 | 19.57 | 3.26 | - | - |
| 1500 | - | - | - | - | - | - | 8.14 | 39.53 | 31.40 | 20.93 | - | - | - |
| 1530 | - | - | - | - | - | - | 9.30 | 43.02 | 38.37 | 9.30 | - | - | - |
| 1600 | - | - | - | - | - | - | 8.05 | 51.72 | 29.89 | 10.34 | - | - | - |
| 1630 | - | - | - | - | - | - | 12.94 | 54.12 | 28.24 | 4.71 | - | - | - |
| 1700 | - | - | - | - | - | - | 22.22 | 54.32 | 23.46 | - | - | - | - |
| 1730 | - | - | - | - | - | 1.15 | 26.44 | 51.72 | 19.54 | 1.15 | - | - | - |
| 1800 | - | - | - | - | - | 2.25 | 33.71 | 51.69 | 11.24 | 1.12 | - | - | - |
| 1830 | - | - | - | - | - | 3.33 | 43.33 | 48.89 | 4.44 | - | - | - | - |
| 1900 | - | - | - | - | - | 3.33 | 48.89 | 45.56 | 2.22 | - | - | - | - |
| 1930 | - | - | - | - | - | 4.40 | 54.95 | 39.56 | 1.10 | - | - | - | - |
| 2000 | - | - | - | - | - | 3.37 | 56.18 | 39.33 | 1.12 | - | - | - | - |
| 2030 | - | - | - | - | - | 3.30 | 61.54 | 35.16 | - | - | - | - | - |
| 2100 | - | - | - | - | - | 5.43 | 64.13 | 30.43 | - | - | - | - | - |
| 2130 | - | - | - | - | - | 4.44 | 66.67 | 28.89 | - | - | - | - | - |
| 2200 | - | - | - | - | - | 6.98 | 66.28 | 26.74 | - | - | - | - | - |
| 2230 | - | - | - | - | - | 9.09 | 67.05 | 23.86 | - | - | - | - | - |
| 2300 | - | - | - | - | - | 10.59 | 67.06 | 22.35 | - | - | - | - | - |
| 2330 | - | - | - | - | - | 10.34 | 71.26 | 18.39 | - | - | - | - | - |
| MEAN | - | - | - | - | 0.12 | 3.86 | 34.60 | 32.61 | 18.31 | 8.69 | 1.81 | - | - |




Min temperature -5º to 0º (time 0100, 0230 and 0300 UTC) – each 1.15%

Max temperature 25º to 29º (time 1300 UTC) – 8.40%

Mean dominating temperature 5º to 9º – 34.60%

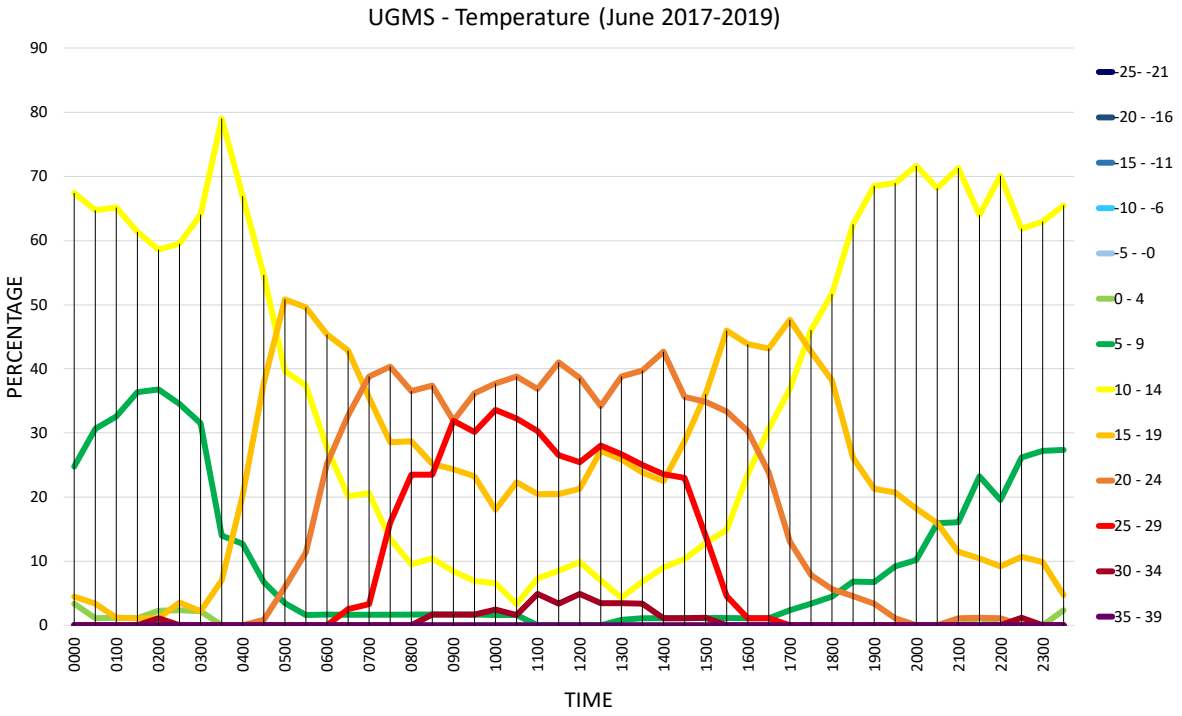
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: JUNE PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | - | - | - | 3.37 | 24.72 | 67.42 | 4.49 | - | - | - | - |
| 0030 | - | - | - | - | - | 1.14 | 30.68 | 64.77 | 3.41 | - | - | - | - |
| 0100 | - | - | - | - | - | 1.16 | 32.56 | 65.12 | 1.16 | - | - | - | - |
| 0130 | - | - | - | - | - | 1.14 | 36.36 | 61.36 | 1.14 | - | - | - | - |
| 0200 | - | - | - | - | - | 2.30 | 36.78 | 58.62 | 1.15 | - | - | 1.15 | - |
| 0230 | - | - | - | - | - | 2.38 | 34.52 | 59.52 | 3.57 | - | - | - | - |
| 0300 | - | - | - | - | - | 2.25 | 31.46 | 64.04 | 2.25 | - | - | - | - |
| 0330 | - | - | - | - | - | - | 13.95 | 79.07 | 6.98 | - | - | - | - |
| 0400 | - | - | - | - | - | - | 12.71 | 66.95 | 20.34 | - | - | - | - |
| 0430 | - | - | - | - | - | - | 6.72 | 54.62 | 37.82 | 0.84 | - | - | - |
| 0500 | - | - | - | - | - | - | 3.45 | 39.66 | 50.86 | 6.03 | - | - | - |
| 0530 | - | - | - | - | - | - | 1.63 | 37.40 | 49.59 | 11.38 | - | - | - |
| 0600 | - | - | - | - | - | - | 1.68 | 27.73 | 45.38 | 25.21 | - | - | - |
| 0630 | - | - | - | - | - | - | 1.68 | 20.17 | 42.86 | 32.77 | 2.52 | - | - |
| 0700 | - | - | - | - | - | - | 1.65 | 20.66 | 35.54 | 38.84 | 3.31 | - | - |
| 0730 | - | - | - | - | - | - | 1.68 | 13.45 | 28.57 | 40.34 | 15.97 | - | - |
| 0800 | - | - | - | - | - | - | 1.74 | 9.57 | 28.70 | 36.52 | 23.48 | - | - |
| 0830 | - | - | - | - | - | - | 1.74 | 10.43 | 25.22 | 37.39 | 23.48 | 1.74 | - |
| 0900 | - | - | - | - | - | - | 1.68 | 8.40 | 24.37 | 31.93 | 31.93 | 1.68 | - |
| 0930 | - | - | - | - | - | - | 1.72 | 6.90 | 23.28 | 36.21 | 30.17 | 1.72 | - |
| 1000 | - | - | - | - | - | - | 1.64 | 6.56 | 18.03 | 37.70 | 33.61 | 2.46 | - |
| 1030 | - | - | - | - | - | - | 1.65 | 3.31 | 22.31 | 38.84 | 32.23 | 1.65 | - |
| 1100 | - | - | - | - | - | - | - | 7.38 | 20.49 | 36.89 | 30.33 | 4.92 | - |
| 1130 | - | - | - | - | - | - | - | 8.55 | 20.51 | 41.03 | 26.50 | 3.42 | - |
| 1200 | - | - | - | - | - | - | - | 9.84 | 21.31 | 38.52 | 25.41 | 4.92 | - |
| 1230 | - | - | - | - | - | - | - | 7.02 | 27.19 | 34.21 | 28.07 | 3.51 | - |
| 1300 | - | - | - | - | - | - | 0.86 | 4.31 | 25.86 | 38.79 | 26.72 | 3.45 | - |
| 1330 | - | - | - | - | - | - | 1.14 | 6.82 | 23.86 | 39.77 | 25.00 | 3.41 | - |
| 1400 | - | - | - | - | - | - | 1.12 | 8.99 | 22.47 | 42.70 | 23.60 | 1.12 | - |
| 1430 | - | - | - | - | - | - | 1.15 | 10.34 | 28.74 | 35.63 | 22.99 | 1.15 | - |
| 1500 | - | - | - | - | - | - | 1.16 | 12.79 | 36.05 | 34.88 | 13.95 | 1.16 | - |
| 1530 | - | - | - | - | - | - | 1.15 | 14.94 | 45.98 | 33.33 | 4.60 | - | - |
| 1600 | - | - | - | - | - | - | 1.12 | 23.60 | 43.82 | 30.34 | 1.12 | - | - |
| 1630 | - | - | - | - | - | - | 1.14 | 30.68 | 43.18 | 23.86 | 1.14 | - | - |
| 1700 | - | - | - | - | - | - | 2.38 | 36.90 | 47.62 | 13.10 | - | - | - |
| 1730 | - | - | - | - | - | - | 3.37 | 46.07 | 42.70 | 7.87 | - | - | - |
| 1800 | - | - | - | - | - | - | 4.49 | 51.69 | 38.20 | 5.62 | - | - | - |
| 1830 | - | - | - | - | - | - | 6.82 | 62.50 | 26.14 | 4.55 | - | - | - |
| 1900 | - | - | - | - | - | - | 6.74 | 68.54 | 21.35 | 3.37 | - | - | - |
| 1930 | - | - | - | - | - | - | 9.20 | 68.97 | 20.69 | 1.15 | - | - | - |
| 2000 | - | - | - | - | - | - | 10.23 | 71.59 | 18.18 | - | - | - | - |
| 2030 | - | - | - | - | - | - | 15.91 | 68.18 | 15.91 | - | - | - | - |
| 2100 | - | - | - | - | - | - | 16.09 | 71.26 | 11.49 | 1.15 | - | - | - |
| 2130 | - | - | - | - | - | 1.16 | 23.26 | 63.95 | 10.47 | 1.16 | - | - | - |
| 2200 | - | - | - | - | - | - | 19.54 | 70.11 | 9.20 | 1.15 | - | - | - |
| 2230 | - | - | - | - | - | - | 26.19 | 61.90 | 10.71 | - | - | 1.19 | - |
| 2300 | - | - | - | - | - | - | 27.16 | 62.96 | 9.88 | - | - | - | - |
| 2330 | - | - | - | - | - | 2.38 | 27.38 | 65.48 | 4.76 | - | - | - | - |
| MEAN | - | - | - | - | - | 0.31 | 9.15 | 36.27 | 24.27 | 19.12 | 9.97 | 0.90 | - |




Min temperature 0º to 4º (time 0000 UTC) – 3.37%

Max temperature 30º to 34º (time 1100 and 1200 UTC) – each 4.92%

Mean dominating temperature 10º to 14º – 36.27%

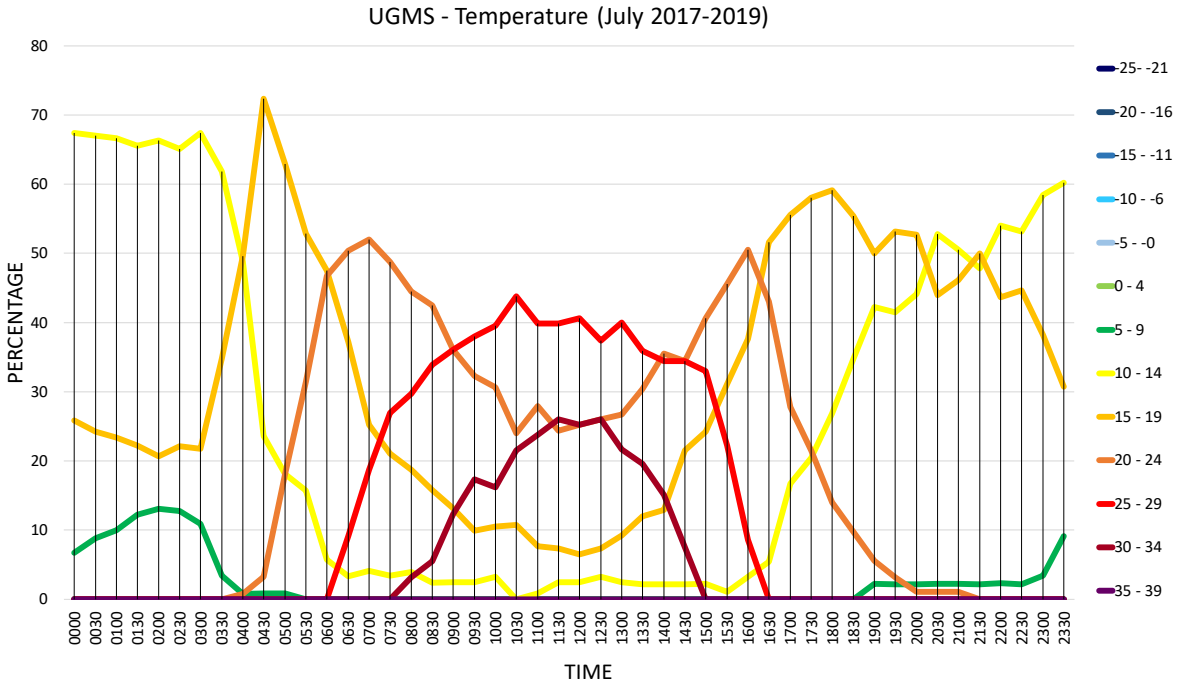
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: JULY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | - | - | - | - | 6.74 | 67.42 | 25.84 | - | - | - | - |
| 0030 | - | - | - | - | - | - | 8.79 | 67.03 | 24.18 | - | - | - | - |
| 0100 | - | - | - | - | - | - | 10.00 | 66.67 | 23.33 | - | - | - | - |
| 0130 | - | - | - | - | - | - | 12.22 | 65.56 | 22.22 | - | - | - | - |
| 0200 | - | - | - | - | - | - | 13.04 | 66.30 | 20.65 | - | - | - | - |
| 0230 | - | - | - | - | - | - | 12.79 | 65.12 | 22.09 | - | - | - | - |
| 0300 | - | - | - | - | - | - | 10.87 | 67.39 | 21.74 | - | - | - | - |
| 0330 | - | - | - | - | - | - | 3.37 | 61.80 | 34.83 | - | - | - | - |
| 0400 | - | - | - | - | - | - | 0.80 | 48.80 | 49.60 | 0.80 | - | - | - |
| 0430 | - | - | - | - | - | - | 0.81 | 23.58 | 72.36 | 3.25 | - | - | - |
| 0500 | - | - | - | - | - | - | 0.86 | 18.10 | 62.93 | 18.10 | - | - | - |
| 0530 | - | - | - | - | - | - | - | 15.70 | 52.89 | 31.40 | - | - | - |
| 0600 | - | - | - | - | - | - | - | 5.74 | 47.54 | 46.72 | - | - | - |
| 0630 | - | - | - | - | - | - | - | 3.31 | 37.19 | 50.41 | 9.09 | - | - |
| 0700 | - | - | - | - | - | - | - | 4.07 | 25.20 | 52.03 | 18.70 | - | - |
| 0730 | - | - | - | - | - | - | - | 3.36 | 21.01 | 48.74 | 26.89 | - | - |
| 0800 | - | - | - | - | - | - | - | 3.91 | 18.75 | 44.53 | 29.69 | 3.13 | - |
| 0830 | - | - | - | - | - | - | - | 2.36 | 15.75 | 42.52 | 33.86 | 5.51 | - |
| 0900 | - | - | - | - | - | - | - | 2.46 | 13.11 | 36.07 | 36.07 | 12.30 | - |
| 0930 | - | - | - | - | - | - | - | 2.48 | 9.92 | 32.23 | 38.02 | 17.36 | - |
| 1000 | - | - | - | - | - | - | - | 3.23 | 10.48 | 30.65 | 39.52 | 16.13 | - |
| 1030 | - | - | - | - | - | - | - | - | 10.74 | 23.97 | 43.80 | 21.49 | - |
| 1100 | - | - | - | - | - | - | - | 0.85 | 7.63 | 27.97 | 39.83 | 23.73 | - |
| 1130 | - | - | - | - | - | - | - | 2.44 | 7.32 | 24.39 | 39.84 | 26.02 | - |
| 1200 | - | - | - | - | - | - | - | 2.44 | 6.50 | 25.20 | 40.65 | 25.20 | - |
| 1230 | - | - | - | - | - | - | - | 3.25 | 7.32 | 26.02 | 37.40 | 26.02 | - |
| 1300 | - | - | - | - | - | - | - | 2.50 | 9.17 | 26.67 | 40.00 | 21.67 | - |
| 1330 | - | - | - | - | - | - | - | 2.17 | 11.96 | 30.43 | 35.87 | 19.57 | - |
| 1400 | - | - | - | - | - | - | - | 2.15 | 12.90 | 35.48 | 34.41 | 15.05 | - |
| 1430 | - | - | - | - | - | - | - | 2.15 | 21.51 | 34.41 | 34.41 | 7.53 | - |
| 1500 | - | - | - | - | - | - | - | 2.20 | 24.18 | 40.66 | 32.97 | - | - |
| 1530 | - | - | - | - | - | - | - | 1.11 | 31.11 | 45.56 | 22.22 | - | - |
| 1600 | - | - | - | - | - | - | - | 3.23 | 37.63 | 50.54 | 8.60 | - | - |
| 1630 | - | - | - | - | - | - | - | 5.38 | 51.61 | 43.01 | - | - | - |
| 1700 | - | - | - | - | - | - | - | 16.67 | 55.56 | 27.78 | - | - | - |
| 1730 | - | - | - | - | - | - | - | 20.43 | 58.06 | 21.51 | - | - | - |
| 1800 | - | - | - | - | - | - | - | 26.88 | 59.14 | 13.98 | - | - | - |
| 1830 | - | - | - | - | - | - | - | 34.78 | 55.43 | 9.78 | - | - | - |
| 1900 | - | - | - | - | - | - | 2.22 | 42.22 | 50.00 | 5.56 | - | - | - |
| 1930 | - | - | - | - | - | - | 2.13 | 41.49 | 53.19 | 3.19 | - | - | - |
| 2000 | - | - | - | - | - | - | 2.15 | 44.09 | 52.69 | 1.08 | - | - | - |
| 2030 | - | - | - | - | - | - | 2.20 | 52.75 | 43.96 | 1.10 | - | - | - |
| 2100 | - | - | - | - | - | - | 2.20 | 50.55 | 46.15 | 1.10 | - | - | - |
| 2130 | - | - | - | - | - | - | 2.17 | 47.83 | 50.00 | - | - | - | - |
| 2200 | - | - | - | - | - | - | 2.30 | 54.02 | 43.68 | - | - | - | - |
| 2230 | - | - | - | - | - | - | 2.13 | 53.19 | 44.68 | - | - | - | - |
| 2300 | - | - | - | - | - | - | 3.37 | 58.43 | 38.20 | - | - | - | - |
| 2330 | - | - | - | - | - | - | 9.09 | 60.23 | 30.68 | - | - | - | - |
| MEAN | - | - | - | - | - | - | 2.02 | 24.63 | 31.55 | 21.35 | 14.80 | 5.66 | - |




Min temperature 5º to 9º (time 0200 UTC) – 13.04%

Max temperature 30º to 34º (time 1130 and 1230 UTC) – each 26.02%

Mean dominating temperature 15º to 19º – 31.55%

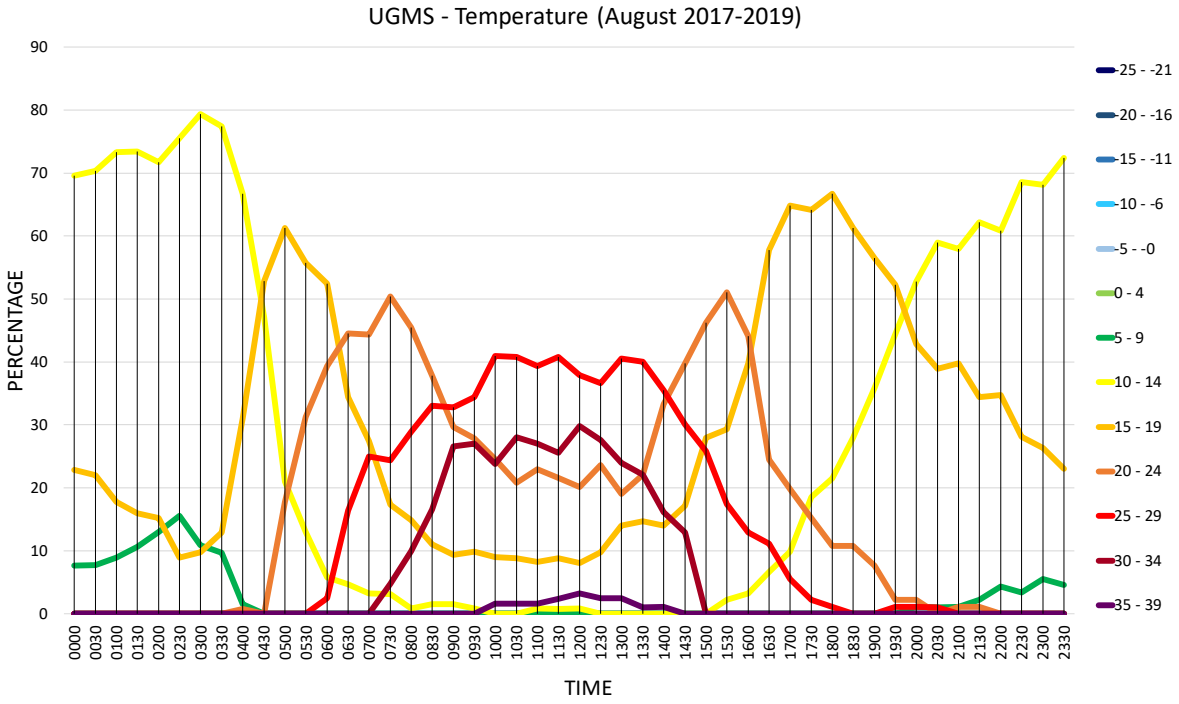
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: AUGUST PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | - | - | - | - | 7.61 | 69.57 | 22.83 | - | - | - | - |
| 0030 | - | - | - | - | - | - | 7.69 | 70.33 | 21.98 | - | - | - | - |
| 0100 | - | - | - | - | - | - | 8.89 | 73.33 | 17.78 | - | - | - | - |
| 0130 | - | - | - | - | - | - | 10.64 | 73.40 | 15.96 | - | - | - | - |
| 0200 | - | - | - | - | - | - | 13.04 | 71.74 | 15.22 | - | - | - | - |
| 0230 | - | - | - | - | - | - | 15.56 | 75.56 | 8.89 | - | - | - | - |
| 0300 | - | - | - | - | - | - | 10.87 | 79.35 | 9.78 | - | - | - | - |
| 0330 | - | - | - | - | - | - | 9.68 | 77.42 | 12.90 | - | - | - | - |
| 0400 | - | - | - | - | - | - | 1.55 | 66.67 | 31.01 | 0.78 | - | - | - |
| 0430 | - | - | - | - | - | - | - | 47.15 | 52.85 | - | - | - | - |
| 0500 | - | - | - | - | - | - | - | 20.97 | 61.29 | 17.74 | - | - | - |
| 0530 | - | - | - | - | - | - | - | 12.98 | 55.73 | 31.30 | - | - | - |
| 0600 | - | - | - | - | - | - | - | 5.74 | 52.46 | 39.34 | 2.46 | - | - |
| 0630 | - | - | - | - | - | - | - | 4.69 | 34.38 | 44.53 | 16.41 | - | - |
| 0700 | - | - | - | - | - | - | - | 3.23 | 27.42 | 44.35 | 25.00 | - | - |
| 0730 | - | - | - | - | - | - | - | 3.15 | 17.32 | 50.39 | 24.41 | 4.72 | - |
| 0800 | - | - | - | - | - | - | - | 0.83 | 14.88 | 45.45 | 28.93 | 9.92 | - |
| 0830 | - | - | - | - | - | - | - | 1.57 | 11.02 | 37.80 | 33.07 | 16.54 | - |
| 0900 | - | - | - | - | - | - | - | 1.56 | 9.38 | 29.69 | 32.81 | 26.56 | - |
| 0930 | - | - | - | - | - | - | - | 0.82 | 9.84 | 27.87 | 34.43 | 27.05 | - |
| 1000 | - | - | - | - | - | - | - | - | 9.02 | 24.59 | 40.98 | 23.77 | 1.64 |
| 1030 | - | - | - | - | - | - | - | - | 8.80 | 20.80 | 40.80 | 28.00 | 1.60 |
| 1100 | - | - | - | - | - | - | - | 0.82 | 8.20 | 22.95 | 39.34 | 27.05 | 1.64 |
| 1130 | - | - | - | - | - | - | - | 0.80 | 8.80 | 21.60 | 40.80 | 25.60 | 2.40 |
| 1200 | - | - | - | - | - | - | - | 0.81 | 8.06 | 20.16 | 37.90 | 29.84 | 3.23 |
| 1230 | - | - | - | - | - | - | - | - | 9.76 | 23.58 | 36.59 | 27.64 | 2.44 |
| 1300 | - | - | - | - | - | - | - | - | 14.05 | 19.01 | 40.50 | 23.97 | 2.48 |
| 1330 | - | - | - | - | - | - | - | - | 14.74 | 22.11 | 40.00 | 22.11 | 1.05 |
| 1400 | - | - | - | - | - | - | - | - | 13.98 | 33.33 | 35.48 | 16.13 | 1.08 |
| 1430 | - | - | - | - | - | - | - | - | 17.20 | 39.78 | 30.11 | 12.90 | - |
| 1500 | - | - | - | - | - | - | - | - | 27.96 | 46.24 | 25.81 | - | - |
| 1530 | - | - | - | - | - | - | - | 2.17 | 29.35 | 51.09 | 17.39 | - | - |
| 1600 | - | - | - | - | - | - | - | 3.23 | 39.78 | 44.09 | 12.90 | - | - |
| 1630 | - | - | - | - | - | - | - | 6.67 | 57.78 | 24.44 | 11.11 | - | - |
| 1700 | - | - | - | - | - | - | - | 9.89 | 64.84 | 19.78 | 5.49 | - | - |
| 1730 | - | - | - | - | - | - | - | 18.48 | 64.13 | 15.22 | 2.17 | - | - |
| 1800 | - | - | - | - | - | - | - | 21.51 | 66.67 | 10.75 | 1.08 | - | - |
| 1830 | - | - | - | - | - | - | - | 27.96 | 61.29 | 10.75 | - | - | - |
| 1900 | - | - | - | - | - | - | - | 35.87 | 56.52 | 7.61 | - | - | - |
| 1930 | - | - | - | - | - | - | - | 44.44 | 52.22 | 2.22 | 1.11 | - | - |
| 2000 | - | - | - | - | - | - | 1.10 | 52.75 | 42.86 | 2.20 | 1.10 | - | - |
| 2030 | - | - | - | - | - | - | 1.05 | 58.95 | 38.95 | - | 1.05 | - | - |
| 2100 | - | - | - | - | - | - | 1.14 | 57.95 | 39.77 | 1.14 | - | - | - |
| 2130 | - | - | - | - | - | - | 2.22 | 62.22 | 34.44 | 1.11 | - | - | - |
| 2200 | - | - | - | - | - | - | 4.35 | 60.87 | 34.78 | - | - | - | - |
| 2230 | - | - | - | - | - | - | 3.37 | 68.54 | 28.09 | - | - | - | - |
| 2300 | - | - | - | - | - | - | 5.49 | 68.13 | 26.37 | - | - | - | - |
| 2330 | - | - | - | - | - | - | 4.60 | 72.41 | 22.99 | - | - | - | - |
| MEAN | - | - | - | - | - | - | 1.99 | 27.22 | 28.56 | 19.06 | 15.12 | 7.62 | 0.42 |




Min temperature 5º to 9º (time 0230 UTC) – 15.56%

Max temperature 35º to 39º (time 1200 UTC) – 3.23%

Mean dominating temperature 15º to 19º – 28.56%

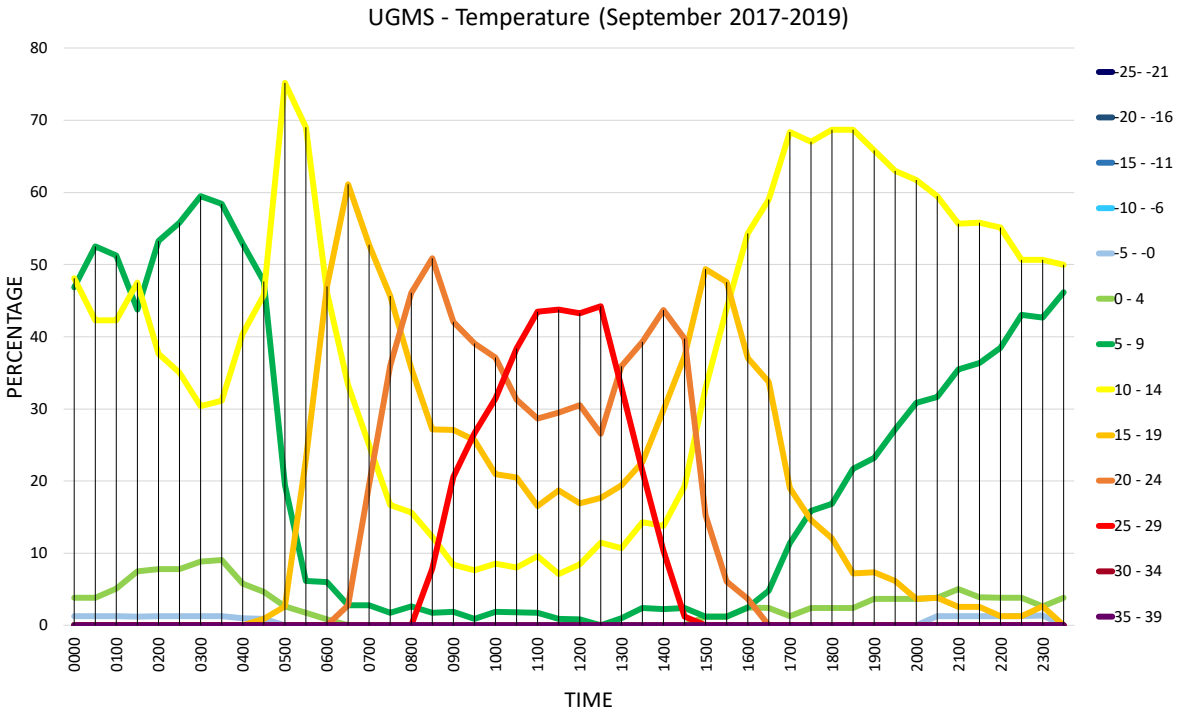
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: SEPTEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | - | - | 1.27 | 3.80 | 46.84 | 48.10 | - | - | - | - | - |
| 0030 | - | - | - | - | 1.28 | 3.85 | 52.56 | 42.31 | - | - | - | - | - |
| 0100 | - | - | - | - | 1.28 | 5.13 | 51.28 | 42.31 | - | - | - | - | - |
| 0130 | - | - | - | - | 1.25 | 7.50 | 43.75 | 47.50 | - | - | - | - | - |
| 0200 | - | - | - | - | 1.30 | 7.79 | 53.25 | 37.66 | - | - | - | - | - |
| 0230 | - | - | - | - | 1.30 | 7.79 | 55.84 | 35.06 | - | - | - | - | - |
| 0300 | - | - | - | - | 1.27 | 8.86 | 59.49 | 30.38 | - | - | - | - | - |
| 0330 | - | - | - | - | 1.30 | 9.09 | 58.44 | 31.17 | - | - | - | - | - |
| 0400 | - | - | - | - | 0.96 | 5.77 | 52.88 | 40.38 | - | - | - | - | - |
| 0430 | - | - | - | - | 0.93 | 4.67 | 47.66 | 45.79 | 0.93 | - | - | - | - |
| 0500 | - | - | - | - | - | 2.65 | 19.47 | 75.22 | 2.65 | - | - | - | - |
| 0530 | - | - | - | - | - | 1.77 | 6.19 | 69.03 | 23.01 | - | - | - | - |
| 0600 | - | - | - | - | - | 0.85 | 5.98 | 46.15 | 47.01 | - | - | - | - |
| 0630 | - | - | - | - | - | - | 2.78 | 33.33 | 61.11 | 2.78 | - | - | - |
| 0700 | - | - | - | - | - | - | 2.78 | 25.00 | 52.78 | 19.44 | - | - | - |
| 0730 | - | - | - | - | - | - | 1.75 | 16.67 | 45.61 | 35.96 | - | - | - |
| 0800 | - | - | - | - | - | - | 2.61 | 15.65 | 35.65 | 46.09 | - | - | - |
| 0830 | - | - | - | - | - | - | 1.75 | 12.28 | 27.19 | 50.88 | 7.89 | - | - |
| 0900 | - | - | - | - | - | - | 1.87 | 8.41 | 27.10 | 42.06 | 20.56 | - | - |
| 0930 | - | - | - | - | - | - | 0.95 | 7.62 | 25.71 | 39.05 | 26.67 | - | - |
| 1000 | - | - | - | - | - | - | 1.90 | 8.57 | 20.95 | 37.14 | 31.43 | - | - |
| 1030 | - | - | - | - | - | - | 1.79 | 8.04 | 20.54 | 31.25 | 38.39 | - | - |
| 1100 | - | - | - | - | - | - | 1.74 | 9.57 | 16.52 | 28.70 | 43.48 | - | - |
| 1130 | - | - | - | - | - | - | 0.89 | 7.14 | 18.75 | 29.46 | 43.75 | - | - |
| 1200 | - | - | - | - | - | - | 0.85 | 8.47 | 16.95 | 30.51 | 43.22 | - | - |
| 1230 | - | - | - | - | - | - | - | 11.50 | 17.70 | 26.55 | 44.25 | - | - |
| 1300 | - | - | - | - | - | - | 0.97 | 10.68 | 19.42 | 35.92 | 33.01 | - | - |
| 1330 | - | - | - | - | - | - | 2.38 | 14.29 | 22.62 | 39.29 | 21.43 | - | - |
| 1400 | - | - | - | - | - | - | 2.30 | 13.79 | 29.89 | 43.68 | 10.34 | - | - |
| 1430 | - | - | - | - | - | - | 2.41 | 19.28 | 37.35 | 39.76 | 1.20 | - | - |
| 1500 | - | - | - | - | - | 1.18 | 1.18 | 32.94 | 49.41 | 15.29 | - | - | - |
| 1530 | - | - | - | - | - | 1.22 | 1.22 | 43.90 | 47.56 | 6.10 | - | - | - |
| 1600 | - | - | - | - | - | 2.47 | 2.47 | 54.32 | 37.04 | 3.70 | - | - | - |
| 1630 | - | - | - | - | - | 2.41 | 4.82 | 59.04 | 33.73 | - | - | - | - |
| 1700 | - | - | - | - | - | 1.27 | 11.39 | 68.35 | 18.99 | - | - | - | - |
| 1730 | - | - | - | - | - | 2.44 | 15.85 | 67.07 | 14.63 | - | - | - | - |
| 1800 | - | - | - | - | - | 2.41 | 16.87 | 68.67 | 12.05 | - | - | - | - |
| 1830 | - | - | - | - | - | 2.41 | 21.69 | 68.67 | 7.23 | - | - | - | - |
| 1900 | - | - | - | - | - | 3.66 | 23.17 | 65.85 | 7.32 | - | - | - | - |
| 1930 | - | - | - | - | - | 3.70 | 27.16 | 62.96 | 6.17 | - | - | - | - |
| 2000 | - | - | - | - | - | 3.70 | 30.86 | 61.73 | 3.70 | - | - | - | - |
| 2030 | - | - | - | - | 1.27 | 3.80 | 31.65 | 59.49 | 3.80 | - | - | - | - |
| 2100 | - | - | - | - | 1.27 | 5.06 | 35.44 | 55.70 | 2.53 | - | - | - | - |
| 2130 | - | - | - | - | 1.30 | 3.90 | 36.36 | 55.84 | 2.60 | - | - | - | - |
| 2200 | - | - | - | - | 1.28 | 3.85 | 38.46 | 55.13 | 1.28 | - | - | - | - |
| 2230 | - | - | - | - | 1.27 | 3.80 | 43.04 | 50.63 | 1.27 | - | - | - | - |
| 2300 | - | - | - | - | 1.33 | 2.67 | 42.67 | 50.67 | 2.67 | - | - | - | - |
| 2330 | - | - | - | - | - | 3.85 | 46.15 | 50.00 | - | - | - | - | - |
| MEAN | - | - | - | - | 0.36 | 2.30 | 19.03 | 36.69 | 18.42 | 14.22 | 8.96 | - | - |




Min temperature -5º to 0º (time 2300 UTC) – 1.33%

Max temperature 25º to 29º (time 1230 UTC) – 44.25%

Mean dominating temperature 10º to 14º – 36.69%

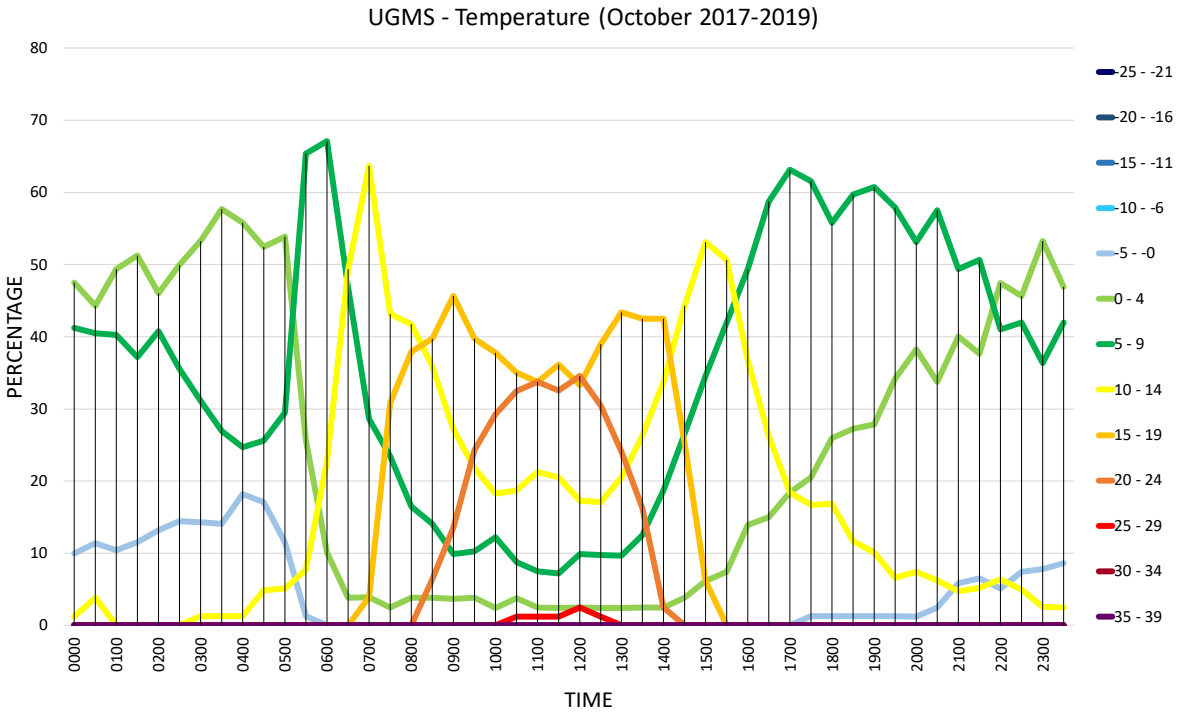
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: OCTOBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | - | - | 10.00 | 47.50 | 41.25 | 1.25 | - | - | - | - | - |
| 0030 | - | - | - | - | 11.39 | 44.30 | 40.51 | 3.80 | - | - | - | - | - |
| 0100 | - | - | - | - | 10.39 | 49.35 | 40.26 | - | - | - | - | - | - |
| 0130 | - | - | - | - | 11.54 | 51.28 | 37.18 | - | - | - | - | - | - |
| 0200 | - | - | - | - | 13.16 | 46.05 | 40.79 | - | - | - | - | - | - |
| 0230 | - | - | - | - | 14.47 | 50.00 | 35.53 | - | - | - | - | - | - |
| 0300 | - | - | - | - | 14.29 | 53.25 | 31.17 | 1.30 | - | - | - | - | - |
| 0330 | - | - | - | - | 14.10 | 57.69 | 26.92 | 1.28 | - | - | - | - | - |
| 0400 | - | - | - | - | 18.18 | 55.84 | 24.68 | 1.30 | - | - | - | - | - |
| 0430 | - | - | - | - | 17.07 | 52.44 | 25.61 | 4.88 | - | - | - | - | - |
| 0500 | - | - | - | - | 11.54 | 53.85 | 29.49 | 5.13 | - | - | - | - | - |
| 0530 | - | - | - | - | 1.28 | 25.64 | 65.38 | 7.69 | - | - | - | - | - |
| 0600 | - | - | - | - | - | 10.13 | 67.09 | 22.78 | - | - | - | - | - |
| 0630 | - | - | - | - | - | 3.80 | 46.84 | 49.37 | - | - | - | - | - |
| 0700 | - | - | - | - | - | 3.90 | 28.57 | 63.64 | 3.90 | - | - | - | - |
| 0730 | - | - | - | - | - | 2.47 | 23.46 | 43.21 | 30.86 | - | - | - | - |
| 0800 | - | - | - | - | - | 3.80 | 16.46 | 41.77 | 37.97 | - | - | - | - |
| 0830 | - | - | - | - | - | 3.85 | 14.10 | 35.90 | 39.74 | 6.41 | - | - | - |
| 0900 | - | - | - | - | - | 3.70 | 9.88 | 27.16 | 45.68 | 13.58 | - | - | - |
| 0930 | - | - | - | - | - | 3.85 | 10.26 | 21.79 | 39.74 | 24.36 | - | - | - |
| 1000 | - | - | - | - | - | 2.44 | 12.20 | 18.29 | 37.80 | 29.27 | - | - | - |
| 1030 | - | - | - | - | - | 3.75 | 8.75 | 18.75 | 35.00 | 32.50 | 1.25 | - | - |
| 1100 | - | - | - | - | - | 2.50 | 7.50 | 21.25 | 33.75 | 33.75 | 1.25 | - | - |
| 1130 | - | - | - | - | - | 2.41 | 7.23 | 20.48 | 36.14 | 32.53 | 1.20 | - | - |
| 1200 | - | - | - | - | - | 2.47 | 9.88 | 17.28 | 33.33 | 34.57 | 2.47 | - | - |
| 1230 | - | - | - | - | - | 2.44 | 9.76 | 17.07 | 39.02 | 30.49 | 1.22 | - | - |
| 1300 | - | - | - | - | - | 2.41 | 9.64 | 20.48 | 43.37 | 24.10 | - | - | - |
| 1330 | - | - | - | - | - | 2.50 | 12.50 | 26.25 | 42.50 | 16.25 | - | - | - |
| 1400 | - | - | - | - | - | 2.50 | 18.75 | 33.75 | 42.50 | 2.50 | - | - | - |
| 1430 | - | - | - | - | - | 3.80 | 26.58 | 44.30 | 25.32 | - | - | - | - |
| 1500 | - | - | - | - | - | 6.17 | 34.57 | 53.09 | 6.17 | - | - | - | - |
| 1530 | - | - | - | - | - | 7.41 | 41.98 | 50.62 | - | - | - | - | - |
| 1600 | - | - | - | - | - | 13.92 | 49.37 | 36.71 | - | - | - | - | - |
| 1630 | - | - | - | - | - | 15.00 | 58.75 | 26.25 | - | - | - | - | - |
| 1700 | - | - | - | - | - | 18.42 | 63.16 | 18.42 | - | - | - | - | - |
| 1730 | - | - | - | - | 1.28 | 20.51 | 61.54 | 16.67 | - | - | - | - | - |
| 1800 | - | - | - | - | 1.30 | 25.97 | 55.84 | 16.88 | - | - | - | - | - |
| 1830 | - | - | - | - | 1.30 | 27.27 | 59.74 | 11.69 | - | - | - | - | - |
| 1900 | - | - | - | - | 1.27 | 27.85 | 60.76 | 10.13 | - | - | - | - | - |
| 1930 | - | - | - | - | 1.32 | 34.21 | 57.89 | 6.58 | - | - | - | - | - |
| 2000 | - | - | - | - | 1.23 | 38.27 | 53.09 | 7.41 | - | - | - | - | - |
| 2030 | - | - | - | - | 2.50 | 33.75 | 57.50 | 6.25 | - | - | - | - | - |
| 2100 | - | - | - | - | 5.88 | 40.00 | 49.41 | 4.71 | - | - | - | - | - |
| 2130 | - | - | - | - | 6.49 | 37.66 | 50.65 | 5.19 | - | - | - | - | - |
| 2200 | - | - | - | - | 5.13 | 47.44 | 41.03 | 6.41 | - | - | - | - | - |
| 2230 | - | - | - | - | 7.41 | 45.68 | 41.98 | 4.94 | - | - | - | - | - |
| 2300 | - | - | - | - | 7.79 | 53.25 | 36.36 | 2.60 | - | - | - | - | - |
| 2330 | - | - | - | - | 8.64 | 46.91 | 41.98 | 2.47 | - | - | - | - | - |
| MEAN | - | - | - | - | 4.10 | 24.59 | 35.11 | 17.94 | 12.13 | 5.97 | 0.16 | - | - |




Min temperature -5º to 0º (time 0400 UTC) – 18.18%

Max temperature 25º to 29º (time 1200 UTC) – 2.47%

Mean dominating temperature 5º to 9º – 35.11%

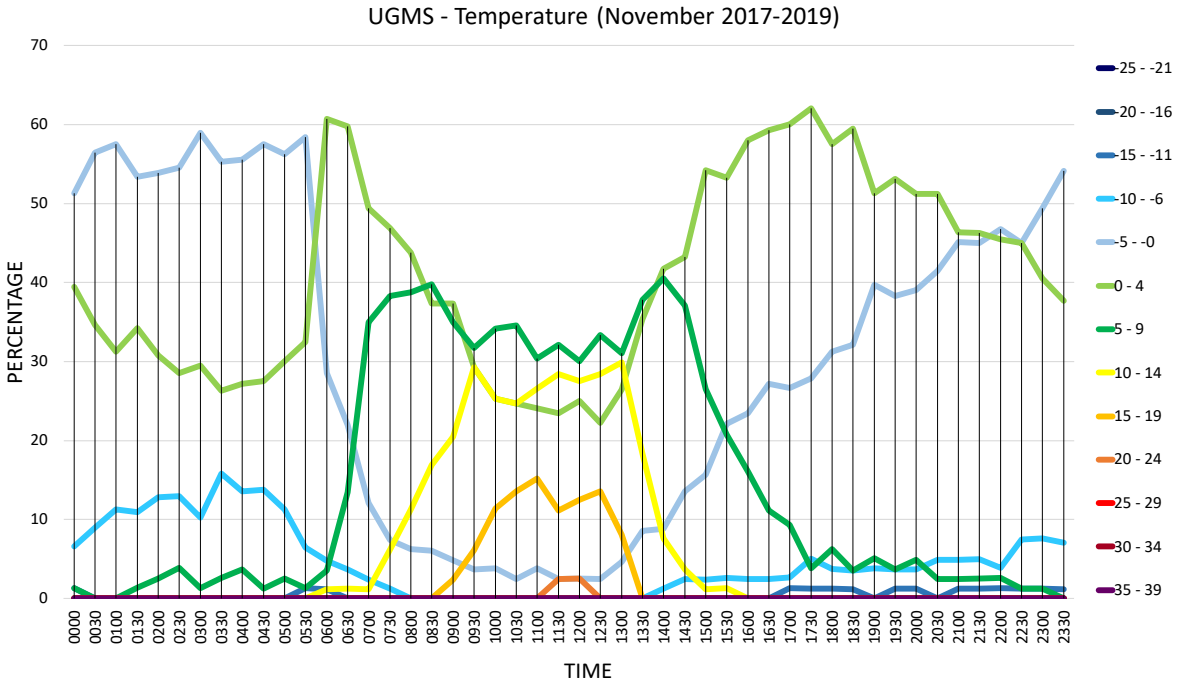
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: NOVEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | 1.32 | 6.58 | 51.32 | 39.47 | 1.32 | - | - | - | - | - | - |
| 0030 | - | - | - | 8.97 | 56.41 | 34.62 | - | - | - | - | - | - | - |
| 0100 | - | - | - | 11.25 | 57.50 | 31.25 | - | - | - | - | - | - | - |
| 0130 | - | - | - | 10.96 | 53.42 | 34.25 | 1.37 | - | - | - | - | - | - |
| 0200 | - | - | - | 12.82 | 53.85 | 30.77 | 2.56 | - | - | - | - | - | - |
| 0230 | - | - | - | 12.99 | 54.55 | 28.57 | 3.90 | - | - | - | - | - | - |
| 0300 | - | - | - | 10.26 | 58.97 | 29.49 | 1.28 | - | - | - | - | - | - |
| 0330 | - | - | - | 15.79 | 55.26 | 26.32 | 2.63 | - | - | - | - | - | - |
| 0400 | - | - | - | 13.58 | 55.56 | 27.16 | 3.70 | - | - | - | - | - | - |
| 0430 | - | - | - | 13.75 | 57.50 | 27.50 | 1.25 | - | - | - | - | - | - |
| 0500 | - | - | - | 11.25 | 56.25 | 30.00 | 2.50 | - | - | - | - | - | - |
| 0530 | - | - | 1.30 | 6.49 | 58.44 | 32.47 | 1.30 | - | - | - | - | - | - |
| 0600 | - | - | 1.19 | 4.76 | 28.57 | 60.71 | 3.57 | 1.19 | - | - | - | - | - |
| 0630 | - | - | - | 3.66 | 21.95 | 59.76 | 13.41 | 1.22 | - | - | - | - | - |
| 0700 | - | - | - | 2.41 | 12.05 | 49.40 | 34.94 | 1.20 | - | - | - | - | - |
| 0730 | - | - | - | 1.23 | 7.41 | 46.91 | 38.27 | 6.17 | - | - | - | - | - |
| 0800 | - | - | - | - | 6.25 | 43.75 | 38.75 | 11.25 | - | - | - | - | - |
| 0830 | - | - | - | - | 6.02 | 37.35 | 39.76 | 16.87 | - | - | - | - | - |
| 0900 | - | - | - | - | 4.82 | 37.35 | 34.94 | 20.48 | 2.41 | - | - | - | - |
| 0930 | - | - | - | - | 3.66 | 29.27 | 31.71 | 29.27 | 6.10 | - | - | - | - |
| 1000 | - | - | - | - | 3.80 | 25.32 | 34.18 | 25.32 | 11.39 | - | - | - | - |
| 1030 | - | - | - | - | 2.47 | 24.69 | 34.57 | 24.69 | 13.58 | - | - | - | - |
| 1100 | - | - | - | - | 3.80 | 24.05 | 30.38 | 26.58 | 15.19 | - | - | - | - |
| 1130 | - | - | - | - | 2.47 | 23.46 | 32.10 | 28.40 | 11.11 | 2.47 | - | - | - |
| 1200 | - | - | - | - | 2.50 | 25.00 | 30.00 | 27.50 | 12.50 | 2.50 | - | - | - |
| 1230 | - | - | - | - | 2.47 | 22.22 | 33.33 | 28.40 | 13.58 | - | - | - | - |
| 1300 | - | - | - | - | 4.60 | 26.44 | 31.03 | 29.89 | 8.05 | - | - | - | - |
| 1330 | - | - | - | - | 8.54 | 35.37 | 37.80 | 18.29 | - | - | - | - | - |
| 1400 | - | - | - | 1.27 | 8.86 | 41.77 | 40.51 | 7.59 | - | - | - | - | - |
| 1430 | - | - | - | 2.47 | 13.58 | 43.21 | 37.04 | 3.70 | - | - | - | - | - |
| 1500 | - | - | - | 2.41 | 15.66 | 54.22 | 26.51 | 1.20 | - | - | - | - | - |
| 1530 | - | - | - | 2.60 | 22.08 | 53.25 | 20.78 | 1.30 | - | - | - | - | - |
| 1600 | - | - | - | 2.47 | 23.46 | 58.02 | 16.05 | - | - | - | - | - | - |
| 1630 | - | - | - | 2.47 | 27.16 | 59.26 | 11.11 | - | - | - | - | - | - |
| 1700 | - | - | 1.33 | 2.67 | 26.67 | 60.00 | 9.33 | - | - | - | - | - | - |
| 1730 | - | - | 1.27 | 5.06 | 27.85 | 62.03 | 3.80 | - | - | - | - | - | - |
| 1800 | - | - | 1.25 | 3.75 | 31.25 | 57.50 | 6.25 | - | - | - | - | - | - |
| 1830 | - | - | 1.19 | 3.57 | 32.14 | 59.52 | 3.57 | - | - | - | - | - | - |
| 1900 | - | - | - | 3.85 | 39.74 | 51.28 | 5.13 | - | - | - | - | - | - |
| 1930 | - | - | 1.23 | 3.70 | 38.27 | 53.09 | 3.70 | - | - | - | - | - | - |
| 2000 | - | - | 1.22 | 3.66 | 39.02 | 51.22 | 4.88 | - | - | - | - | - | - |
| 2030 | - | - | - | 4.88 | 41.46 | 51.22 | 2.44 | - | - | - | - | - | - |
| 2100 | - | - | 1.22 | 4.88 | 45.12 | 46.34 | 2.44 | - | - | - | - | - | - |
| 2130 | - | - | 1.25 | 5.00 | 45.00 | 46.25 | 2.50 | - | - | - | - | - | - |
| 2200 | - | - | 1.30 | 3.90 | 46.75 | 45.45 | 2.60 | - | - | - | - | - | - |
| 2230 | - | - | 1.25 | 7.50 | 45.00 | 45.00 | 1.25 | - | - | - | - | - | - |
| 2300 | - | - | 1.27 | 7.59 | 49.37 | 40.51 | 1.27 | - | - | - | - | - | - |
| 2330 | - | - | 1.18 | 7.06 | 54.12 | 37.65 | - | - | - | - | - | - | - |
| MEAN | - | - | 0.39 | 4.68 | 30.20 | 40.88 | 15.20 | 6.57 | 1.98 | 0.10 | - | - | - |




Min temperature -15º to -11º (time 1700 UTC) – 1.33%

Max temperature 20º to 24º (time 1200 UTC) – 2.50%

Mean dominating temperature 0º to 4º – 40.88%

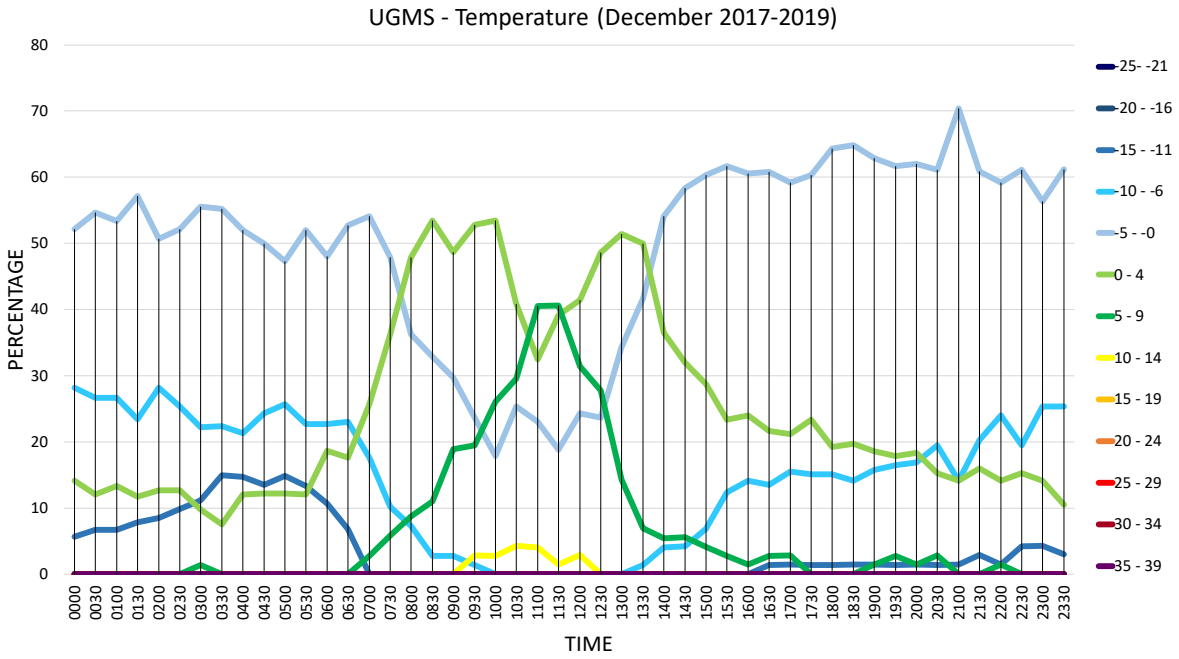
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL E**
**TABULAR FORM**

AERODROME: UGMS MONTH: DECEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF SURFACE TEMPERATURE (SCREEN) IN SPECIFIED RANGES OF 5º AT SPECIFIED TIMES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | Negative Temperature ºC | | | | | Positive Temperature ºC | | | | | | | |
| (UTC) | 25-21 | 20-16 | 15-11 | 10-6 | 5-0 | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| 0000 | - | - | 5.63 | 28.17 | 52.11 | 14.08 | - | - | - | - | - | - | - |
| 0030 | - | - | 6.67 | 26.67 | 54.67 | 12.00 | - | - | - | - | - | - | - |
| 0100 | - | - | 6.67 | 26.67 | 53.33 | 13.33 | - | - | - | - | - | - | - |
| 0130 | - | - | 7.79 | 23.38 | 57.14 | 11.69 | - | - | - | - | - | - | - |
| 0200 | - | - | 8.45 | 28.17 | 50.70 | 12.68 | - | - | - | - | - | - | - |
| 0230 | - | - | 9.86 | 25.35 | 52.11 | 12.68 | - | - | - | - | - | - | - |
| 0300 | - | - | 11.11 | 22.22 | 55.56 | 9.72 | 1.39 | - | - | - | - | - | - |
| 0330 | - | - | 14.93 | 22.39 | 55.22 | 7.46 | - | - | - | - | - | - | - |
| 0400 | - | - | 14.67 | 21.33 | 52.00 | 12.00 | - | - | - | - | - | - | - |
| 0430 | - | - | 13.51 | 24.32 | 50.00 | 12.16 | - | - | - | - | - | - | - |
| 0500 | - | - | 14.86 | 25.68 | 47.30 | 12.16 | - | - | - | - | - | - | - |
| 0530 | - | - | 13.33 | 22.67 | 52.00 | 12.00 | - | - | - | - | - | - | - |
| 0600 | - | - | 10.67 | 22.67 | 48.00 | 18.67 | - | - | - | - | - | - | - |
| 0630 | - | - | 6.76 | 22.97 | 52.70 | 17.57 | - | - | - | - | - | - | - |
| 0700 | - | - | - | 17.57 | 54.05 | 25.68 | 2.70 | - | - | - | - | - | - |
| 0730 | - | - | - | 10.14 | 47.83 | 36.23 | 5.80 | - | - | - | - | - | - |
| 0800 | - | - | - | 7.25 | 36.23 | 47.83 | 8.70 | - | - | - | - | - | - |
| 0830 | - | - | - | 2.74 | 32.88 | 53.42 | 10.96 | - | - | - | - | - | - |
| 0900 | - | - | - | 2.70 | 29.73 | 48.65 | 18.92 | - | - | - | - | - | - |
| 0930 | - | - | - | 1.39 | 23.61 | 52.78 | 19.44 | 2.78 | - | - | - | - | - |
| 1000 | - | - | - | - | 17.81 | 53.42 | 26.03 | 2.74 | - | - | - | - | - |
| 1030 | - | - | - | - | 25.35 | 40.85 | 29.58 | 4.23 | - | - | - | - | - |
| 1100 | - | - | - | - | 22.97 | 32.43 | 40.54 | 4.05 | - | - | - | - | - |
| 1130 | - | - | - | - | 18.84 | 39.13 | 40.58 | 1.45 | - | - | - | - | - |
| 1200 | - | - | - | - | 24.29 | 41.43 | 31.43 | 2.86 | - | - | - | - | - |
| 1230 | - | - | - | - | 23.61 | 48.61 | 27.78 | - | - | - | - | - | - |
| 1300 | - | - | - | - | 34.29 | 51.43 | 14.29 | - | - | - | - | - | - |
| 1330 | - | - | - | 1.39 | 41.67 | 50.00 | 6.94 | - | - | - | - | - | - |
| 1400 | - | - | - | 4.05 | 54.05 | 36.49 | 5.41 | - | - | - | - | - | - |
| 1430 | - | - | - | 4.17 | 58.33 | 31.94 | 5.56 | - | - | - | - | - | - |
| 1500 | - | - | - | 6.85 | 60.27 | 28.77 | 4.11 | - | - | - | - | - | - |
| 1530 | - | - | - | 12.33 | 61.64 | 23.29 | 2.74 | - | - | - | - | - | - |
| 1600 | - | - | - | 14.08 | 60.56 | 23.94 | 1.41 | - | - | - | - | - | - |
| 1630 | - | - | 1.35 | 13.51 | 60.81 | 21.62 | 2.70 | - | - | - | - | - | - |
| 1700 | - | - | 1.41 | 15.49 | 59.15 | 21.13 | 2.82 | - | - | - | - | - | - |
| 1730 | - | - | 1.37 | 15.07 | 60.27 | 23.29 | - | - | - | - | - | - | - |
| 1800 | - | - | 1.37 | 15.07 | 64.38 | 19.18 | - | - | - | - | - | - | - |
| 1830 | - | - | 1.41 | 14.08 | 64.79 | 19.72 | - | - | - | - | - | - | - |
| 1900 | - | - | 1.43 | 15.71 | 62.86 | 18.57 | 1.43 | - | - | - | - | - | - |
| 1930 | - | - | 1.37 | 16.44 | 61.64 | 17.81 | 2.74 | - | - | - | - | - | - |
| 2000 | - | - | 1.41 | 16.90 | 61.97 | 18.31 | 1.41 | - | - | - | - | - | - |
| 2030 | - | - | 1.39 | 19.44 | 61.11 | 15.28 | 2.78 | - | - | - | - | - | - |
| 2100 | - | - | 1.41 | 14.08 | 70.42 | 14.08 | - | - | - | - | - | - | - |
| 2130 | - | - | 2.90 | 20.29 | 60.87 | 15.94 | - | - | - | - | - | - | - |
| 2200 | - | - | 1.41 | 23.94 | 59.15 | 14.08 | 1.41 | - | - | - | - | - | - |
| 2230 | - | - | 4.17 | 19.44 | 61.11 | 15.28 | - | - | - | - | - | - | - |
| 2300 | - | - | 4.23 | 25.35 | 56.34 | 14.08 | - | - | - | - | - | - | - |
| 2330 | - | - | 2.99 | 25.37 | 61.19 | 10.45 | - | - | - | - | - | - | - |
| MEAN | - | - | 3.67 | 14.57 | 49.74 | 25.03 | 6.62 | 0.38 | - | - | - | - | - |




Min temperature -15º to -11º (time 0330 UTC) – 14.93%

Max temperature 10º to 14º (time 1030 UTC) – 4.23%

Mean dominating temperature -5º to 0º – 49.74%

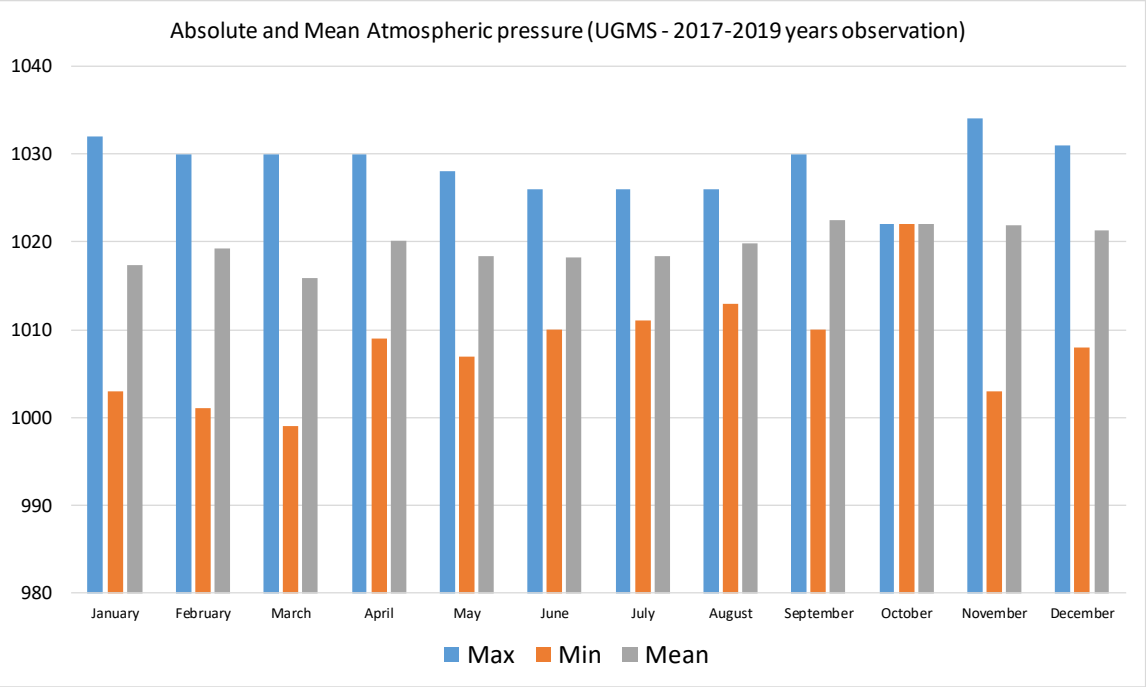
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL F**
**TABULAR FORM**

AERODROME: UGMS MONTHLY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 52560 OBSERVATION INTERVAL: 30 MIN

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Absolute and Mean Atmospheric pressure (UGMS - MAX, MIN, MEAN based on 3 year observation) | | | |
|---|---|---|---|
| Pressure (HPA) | | | |
| Month | Max | Min | Mean |
| January | 1032 | 1003 | 1017 |
| February | 1030 | 1001 | 1019 |
| March | 1030 | 999 | 1016 |
| April | 1030 | 1009 | 1020 |
| May | 1028 | 1007 | 1018 |
| June | 1026 | 1010 | 1018 |
| July | 1026 | 1011 | 1018 |
| August | 1026 | 1013 | 1020 |
| September | 1030 | 1010 | 1023 |
| October | 1022 | 1022 | 1022 |
| November | 1034 | 1003 | 1022 |
| December | 1031 | 1008 | 1021 |




Based on the Three-year observation in Mestia international airport (UGMS):

The Maximum absolute pressure of atmosphere - QNH detected in November - 1034 HPA;

The Minimum absolute pressure of atmosphere - QNH detected in March - 999 HPA.

## AERONAUTICAL CLIMATOLOGY

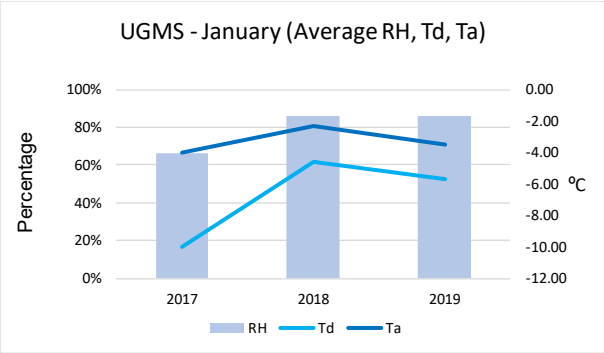
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL G**
**TABULAR FORM**

AERODROME: UGMS OBSERVATION INTERVAL: 30 MIN PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

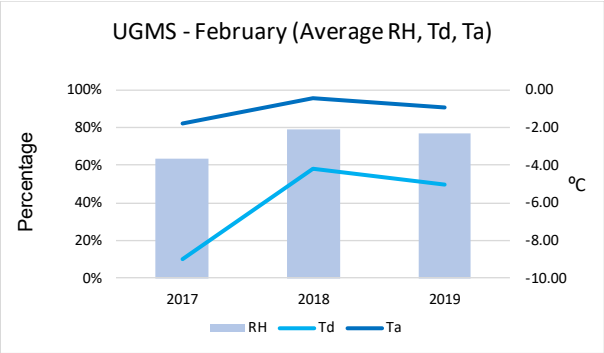
### JANUARY
TOTAL NUMBER OF OBSERVATIONS: 4464

| UGMS January (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2017 | 66.39% | -9.99 | -3.97 |
| 2018 | 86.03% | -4.56 | -2.30 |
| 2019 | 86.33% | -5.66 | -3.49 |



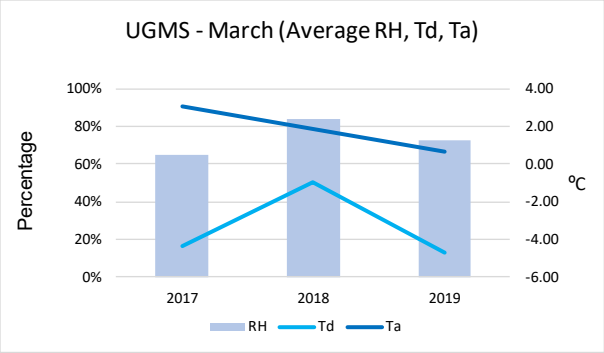

### FEBRUARY
TOTAL NUMBER OF OBSERVATIONS: 4032

| UGMS February (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2017 | 63.20% | -8.99 | -1.81 |
| 2018 | 78.84% | -4.19 | -0.43 |
| 2019 | 77.02% | -5.04 | -0.93 |



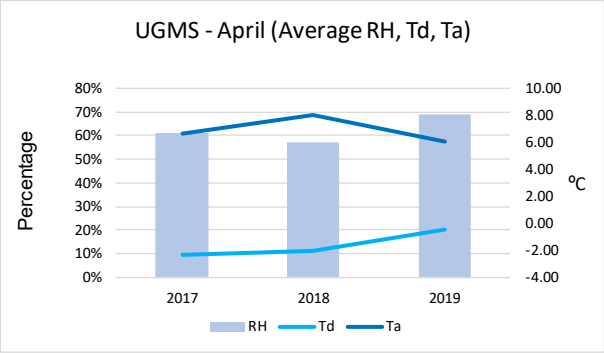

### MARCH
TOTAL NUMBER OF OBSERVATIONS: 4464

| UGMS March (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2017 | 64.97% | -4.38 | 3.04 |
| 2018 | 83.96% | -0.95 | 1.85 |
| 2019 | 72.62% | -4.68 | 0.64 |



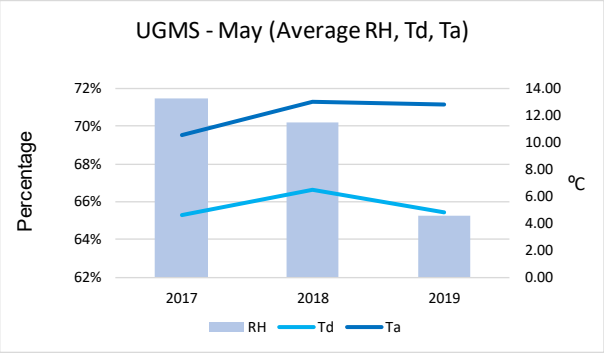

### APRIL
TOTAL NUMBER OF OBSERVATIONS: 4320

| UGMS April (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2017 | 61.21% | -2.39 | 6.63 |
| 2018 | 57.38% | -2.06 | 8.00 |
| 2019 | 69.21% | -0.45 | 6.01 |



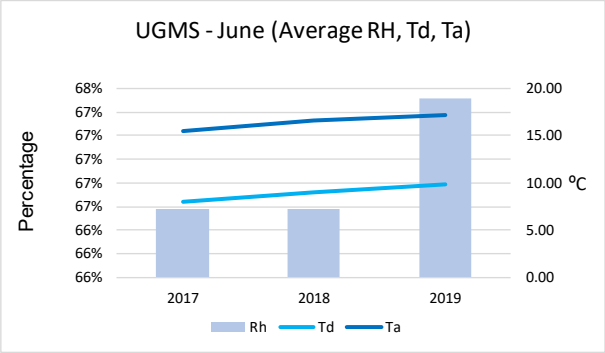
**MAY**
TOTAL NUMBER OF OBSERVATIONS: 4464

| UGMS May (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2017 | 71.44% | 4.59 | 10.57 |
| 2018 | 70.21% | 6.45 | 13.04 |
| 2019 | 65.28% | 4.85 | 12.86 |



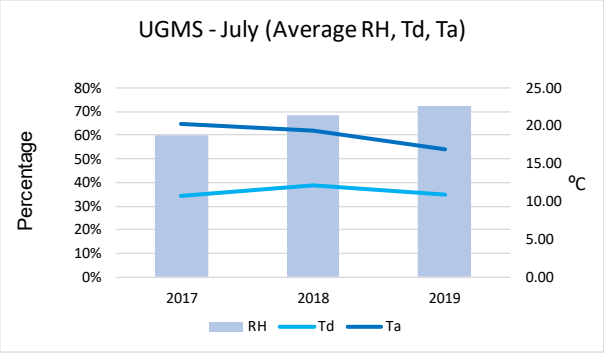

**JUNE**
TOTAL NUMBER OF OBSERVATIONS: 4320

| UGMS June (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2017 | 66.57% | 8.01 | 15.44 |
| 2018 | 66.57% | 8.98 | 16.66 |
| 2019 | 67.52% | 9.86 | 17.16 |



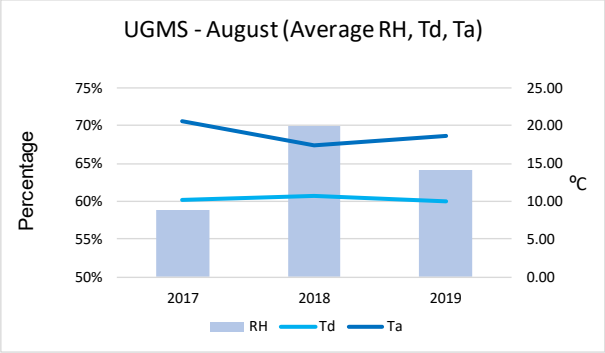

**JULY**
TOTAL NUMBER OF OBSERVATIONS: 4464

| UGMS July (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2017 | 59.98% | 10.69 | 20.32 |
| 2018 | 68.45% | 12.15 | 19.34 |
| 2019 | 72.26% | 10.83 | 16.90 |



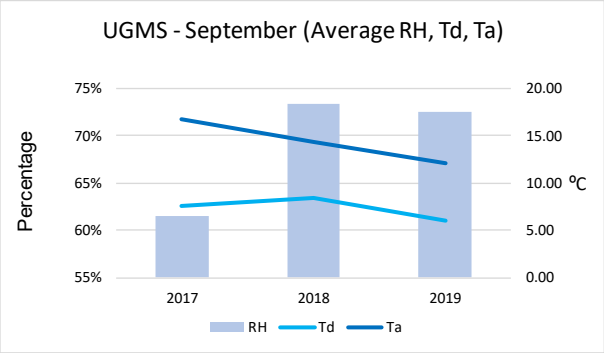

**AUGUST**
TOTAL NUMBER OF OBSERVATIONS: 4464

| UGMS August (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C⁰ | Ta - C⁰ |
| 2017 | 58.79% | 10.14 | 20.66 |
| 2018 | 69.90% | 10.69 | 17.50 |
| 2019 | 64.20% | 10.08 | 18.63 |



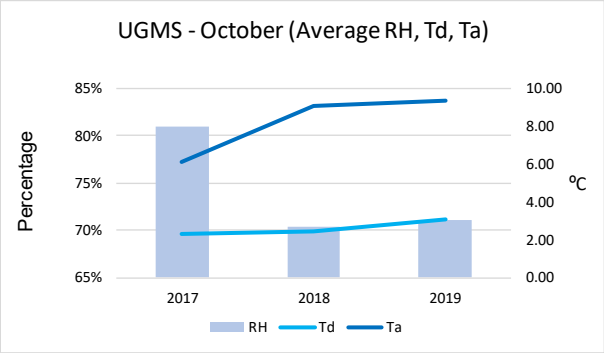
**SEPTEMBER**
TOTAL NUMBER OF OBSERVATIONS: 4320

| UGMS September (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2017 | 61.54% | 7.58 | 16.81 |
| 2018 | 73.39% | 8.50 | 14.30 |
| 2019 | 72.57% | 6.08 | 12.03 |



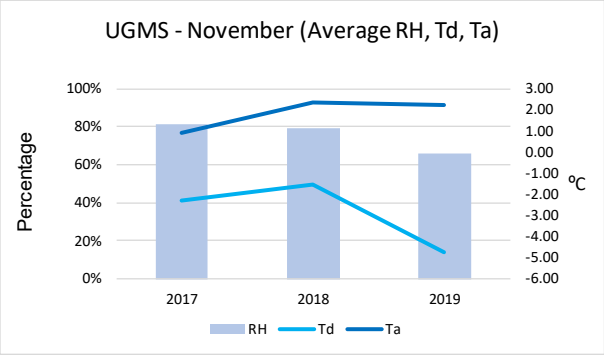

**OCTOBER**
TOTAL NUMBER OF OBSERVATIONS: 4464

| UGMS October (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2017 | 80.92% | 2.31 | 6.09 |
| 2018 | 70.37% | 2.48 | 9.09 |
| 2019 | 71.04% | 3.11 | 9.38 |



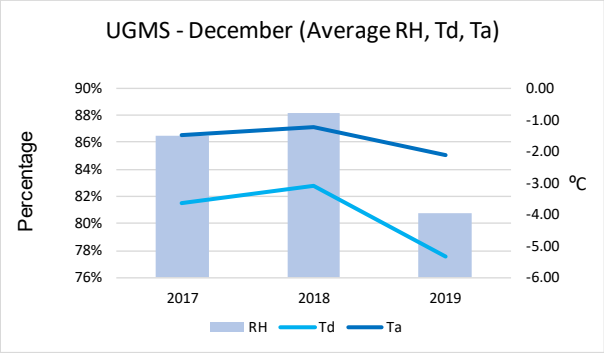

**NOVEMBER**
TOTAL NUMBER OF OBSERVATIONS: 4320

| UGMS November (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2017 | 81.36% | -2.27 | 0.90 |
| 2018 | 79.47% | -1.57 | 2.35 |
| 2019 | 65.90% | -4.71 | 2.20 |




**DECEMBER**
TOTAL NUMBER OF OBSERVATIONS: 4464

| UGMS December (Average RH, Ta, Td) | | | |
|---|---|---|---|
| Average | RH | Td - C$^0$ | Ta - C$^0$ |
| 2017 | 86.54% | -3.64 | -1.48 |
| 2018 | 88.21% | -3.09 | -1.22 |
| 2019 | 80.79% | -5.35 | -2.10 |



**AERONAUTICAL CLIMATOLOGY**

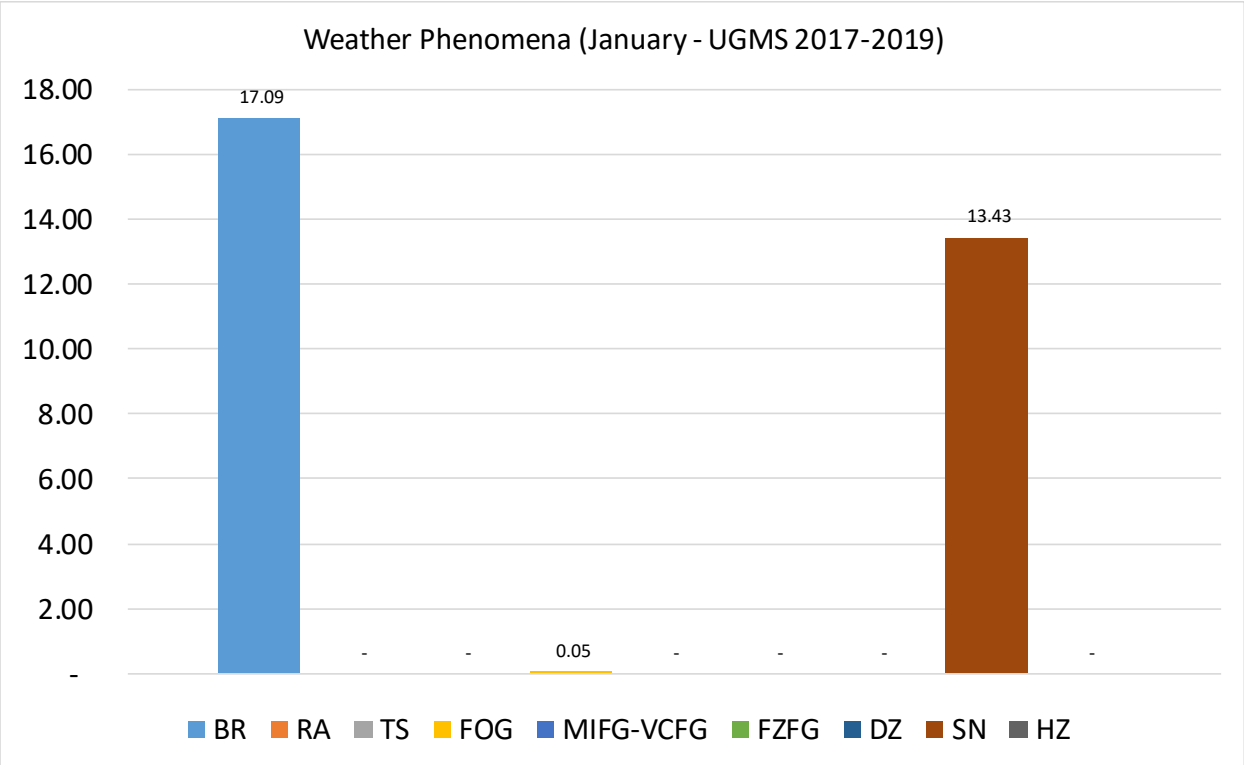
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: JANUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 18.10 | - | - | 0.95 | - | - | - | 13.33 | - |
| 0430 | 16.51 | - | - | - | - | - | - | 17.43 | - |
| 0500 | 15.38 | - | - | - | - | - | - | 15.38 | - |
| 0530 | 11.65 | - | - | - | - | - | - | 16.50 | - |
| 0600 | 20.69 | - | - | - | - | - | - | 18.10 | - |
| 0630 | 22.12 | - | - | - | - | - | - | 16.35 | - |
| 0700 | 18.87 | - | - | - | - | - | - | 12.26 | - |
| 0730 | 18.87 | - | - | - | - | - | - | 12.26 | - |
| 0800 | 18.27 | - | - | - | - | - | - | 12.50 | - |
| 0830 | 16.35 | - | - | - | - | - | - | 13.46 | - |
| 0900 | 18.10 | - | - | - | - | - | - | 11.43 | - |
| 0930 | 19.42 | - | - | - | - | - | - | 11.65 | - |
| 1000 | 19.61 | - | - | - | - | - | - | 9.80 | - |
| 1030 | 16.35 | - | - | - | - | - | - | 15.38 | - |
| 1100 | 14.15 | - | - | - | - | - | - | 10.38 | - |
| 1130 | 12.75 | - | - | - | - | - | - | 10.78 | - |
| 1200 | 16.19 | - | - | - | - | - | - | 14.29 | - |
| 1230 | 16.82 | - | - | - | - | - | - | 12.15 | - |
| 1300 | 14.56 | - | - | - | - | - | - | 11.65 | - |
| Mean | 17.09 | - | - | 0.05 | - | - | - | 13.43 | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in January are: mist – 17.09%, snow – 13.43%, fog – 0.05%.

No thunderstorm activities were observed in January.

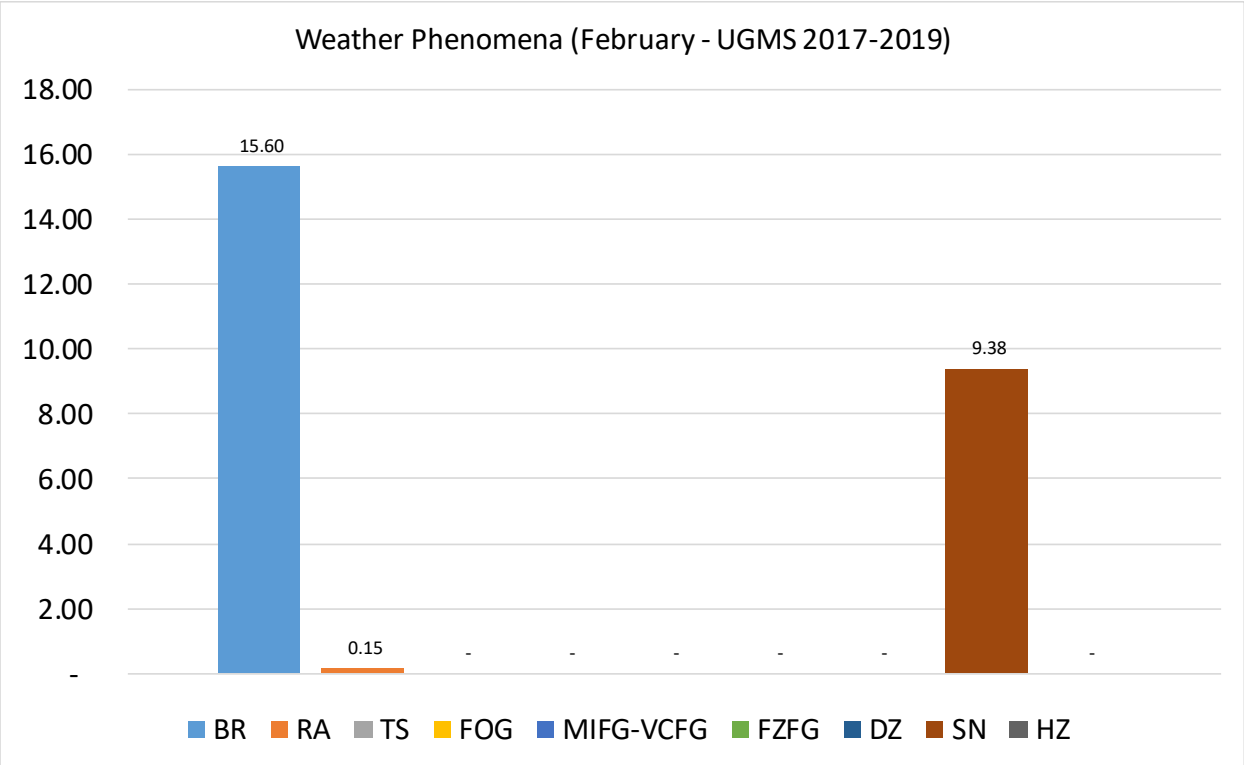
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: FEBRUARY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4032 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 25.47 | - | - | - | - | - | - | 12.26 | - |
| 0430 | 23.08 | 0.96 | - | - | - | - | - | 16.35 | - |
| 0500 | 25.47 | - | - | - | - | - | - | 16.04 | - |
| 0530 | 20.00 | 0.95 | - | - | - | - | - | 15.24 | - |
| 0600 | 22.32 | - | - | - | - | - | - | 12.50 | - |
| 0630 | 23.42 | - | - | - | - | - | - | 8.11 | - |
| 0700 | 25.00 | - | - | - | - | - | - | 11.11 | - |
| 0730 | 17.76 | - | - | - | - | - | - | 9.35 | - |
| 0800 | 17.31 | 0.96 | - | - | - | - | - | 4.81 | - |
| 0830 | 11.11 | - | - | - | - | - | - | 4.63 | - |
| 0900 | 11.21 | - | - | - | - | - | - | 5.61 | - |
| 0930 | 9.43 | - | - | - | - | - | - | 15.09 | - |
| 1000 | 9.80 | - | - | - | - | - | - | 12.75 | - |
| 1030 | 9.35 | - | - | - | - | - | - | 8.41 | - |
| 1100 | 7.41 | - | - | - | - | - | - | 7.41 | - |
| 1130 | 9.52 | - | - | - | - | - | - | 5.71 | - |
| 1200 | 8.93 | - | - | - | - | - | - | 6.25 | - |
| 1230 | 11.21 | - | - | - | - | - | - | 3.74 | - |
| 1300 | 8.57 | - | - | - | - | - | - | 2.86 | - |
| Mean | 15.60 | 0.15 | - | - | - | - | - | 9.38 | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in February are: mist – 15.60%, snow – 9.38%, rain – 0.15%.

No thunderstorm activities were observed in February.

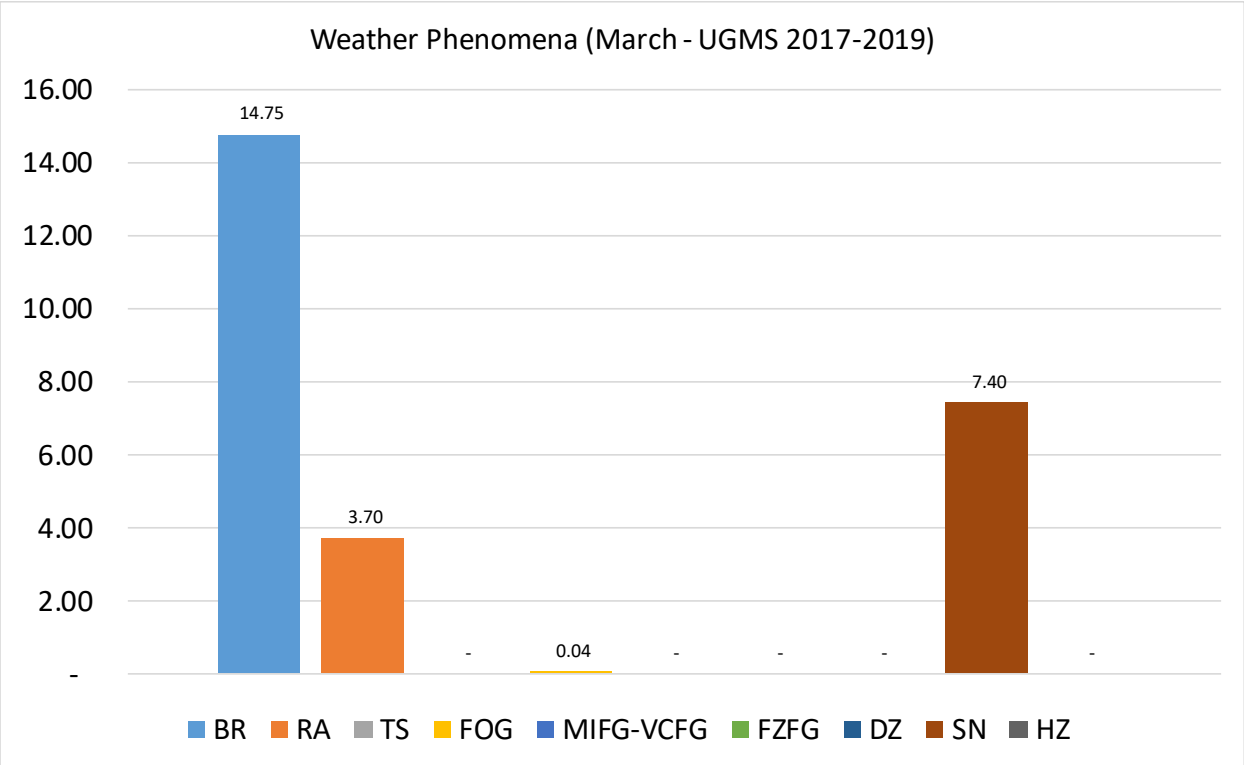
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: MARCH PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 17.95 | 4.27 | - | - | - | - | - | 11.11 | - |
| 0430 | 15.04 | 4.42 | - | - | - | - | - | 10.62 | - |
| 0500 | 14.29 | 3.36 | - | - | - | - | - | 10.92 | - |
| 0530 | 16.10 | 4.24 | - | 0.85 | - | - | - | 13.56 | - |
| 0600 | 15.25 | 5.08 | - | - | - | - | - | 11.02 | - |
| 0630 | 21.24 | 5.31 | - | - | - | - | - | 8.85 | - |
| 0700 | 18.35 | 3.67 | - | - | - | - | - | 7.34 | - |
| 0730 | 15.65 | 1.74 | - | - | - | - | - | 6.96 | - |
| 0800 | 16.81 | 6.19 | - | - | - | - | - | 8.85 | - |
| 0830 | 16.81 | 2.65 | - | - | - | - | - | 5.31 | - |
| 0900 | 16.52 | 1.74 | - | - | - | - | - | 8.70 | - |
| 0930 | 14.16 | 4.42 | - | - | - | - | - | 3.54 | - |
| 1000 | 12.61 | 4.50 | - | - | - | - | - | 5.41 | - |
| 1030 | 13.51 | 4.50 | - | - | - | - | - | 5.41 | - |
| 1100 | 11.30 | 3.48 | - | - | - | - | - | 4.35 | - |
| 1130 | 10.81 | 2.70 | - | - | - | - | - | 4.50 | - |
| 1200 | 13.91 | 2.61 | - | - | - | - | - | 7.83 | - |
| 1230 | 11.82 | 4.55 | - | - | - | - | - | 4.55 | - |
| 1300 | 8.11 | 0.90 | - | - | - | - | - | 1.80 | - |
| Mean | 14.75 | 3.70 | - | 0.04 | - | - | - | 7.40 | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in March are: mist – 14.75%, snow – 7.40%, rain – 3.70%.

No thunderstorm activities were observed in March.

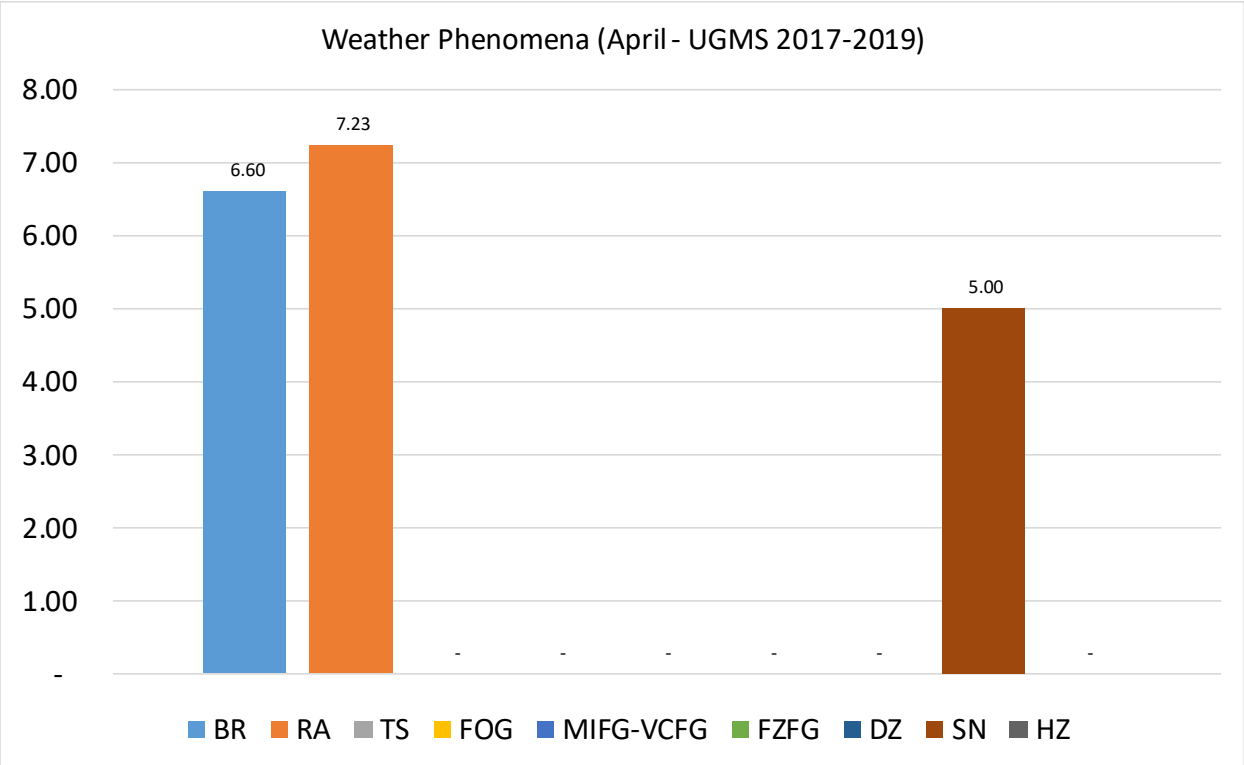
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: APRIL PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 7.89 | 11.40 | - | - | - | - | - | 6.14 | - |
| 0430 | 7.96 | 11.50 | - | - | - | - | - | 6.19 | - |
| 0500 | 3.54 | 12.39 | - | - | - | - | - | 7.96 | - |
| 0530 | 4.88 | 7.32 | - | - | - | - | - | 7.32 | - |
| 0600 | 7.08 | 6.19 | - | - | - | - | - | 7.96 | - |
| 0630 | 10.00 | 7.27 | - | - | - | - | - | 6.36 | - |
| 0700 | 9.65 | 7.02 | - | - | - | - | - | 5.26 | - |
| 0730 | 7.21 | 3.60 | - | - | - | - | - | 4.50 | - |
| 0800 | 7.83 | 4.35 | - | - | - | - | - | 4.35 | - |
| 0830 | 6.31 | 5.41 | - | - | - | - | - | 5.41 | - |
| 0900 | 8.11 | 5.41 | - | - | - | - | - | 5.41 | - |
| 0930 | 7.48 | 6.54 | - | - | - | - | - | 10.28 | - |
| 1000 | 5.98 | 6.84 | - | - | - | - | - | 2.56 | - |
| 1030 | 6.36 | 6.36 | - | - | - | - | - | 6.36 | - |
| 1100 | 4.42 | 8.85 | - | - | - | - | - | 0.88 | - |
| 1130 | 6.31 | 5.41 | - | - | - | - | - | 2.70 | - |
| 1200 | 5.31 | 8.85 | - | - | - | - | - | 1.77 | - |
| 1230 | 4.42 | 6.19 | - | - | - | - | - | 1.77 | - |
| 1300 | 4.63 | 6.48 | - | - | - | - | - | 1.85 | - |
| Mean | 6.60 | 7.23 | - | - | - | - | - | 5.00 | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in April are: rain – 7.23%, mist – 7.60%, snow – 5.00%

No thunderstorm activities were observed in April.

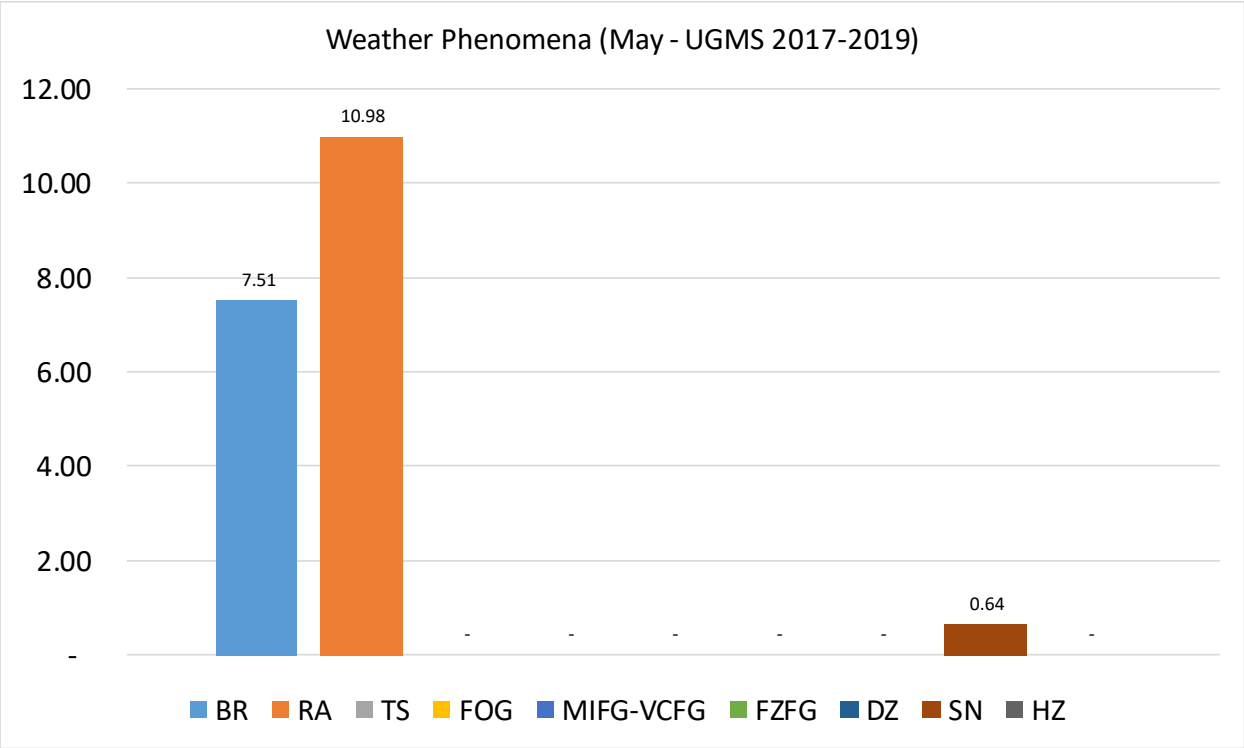
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: MAY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 7.20 | 17.60 | - | - | - | - | - | - | - |
| 0430 | 5.00 | 19.17 | - | - | - | - | - | - | - |
| 0500 | 8.13 | 11.38 | - | - | - | - | - | - | - |
| 0530 | 8.53 | 14.73 | - | - | - | - | - | - | - |
| 0600 | 12.98 | 14.50 | - | - | - | - | - | - | - |
| 0630 | 12.00 | 10.40 | - | - | - | - | - | 0.80 | - |
| 0700 | 9.92 | 16.53 | - | - | - | - | - | - | - |
| 0730 | 9.17 | 5.00 | - | - | - | - | - | 0.83 | - |
| 0800 | 7.38 | 7.38 | - | - | - | - | - | 2.46 | - |
| 0830 | 7.32 | 7.32 | - | - | - | - | - | 2.44 | - |
| 0900 | 6.45 | 8.06 | - | - | - | - | - | 4.03 | - |
| 0930 | 6.56 | 9.02 | - | - | - | - | - | 1.64 | - |
| 1000 | 7.50 | 11.67 | - | - | - | - | - | - | - |
| 1030 | 8.94 | 12.20 | - | - | - | - | - | - | - |
| 1100 | 7.50 | 10.83 | - | - | - | - | - | - | - |
| 1130 | 5.79 | 7.44 | - | - | - | - | - | - | - |
| 1200 | 3.36 | 7.56 | - | - | - | - | - | - | - |
| 1230 | 5.56 | 8.73 | - | - | - | - | - | - | - |
| 1300 | 3.33 | 9.17 | - | - | - | - | - | - | - |
| Mean | 7.51 | 10.98 | - | - | - | - | - | 0.64 | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in May are: rain – 10.98%, mist – 7.51%, snow – 0.64%.

No thunderstorm activities were observed in May.

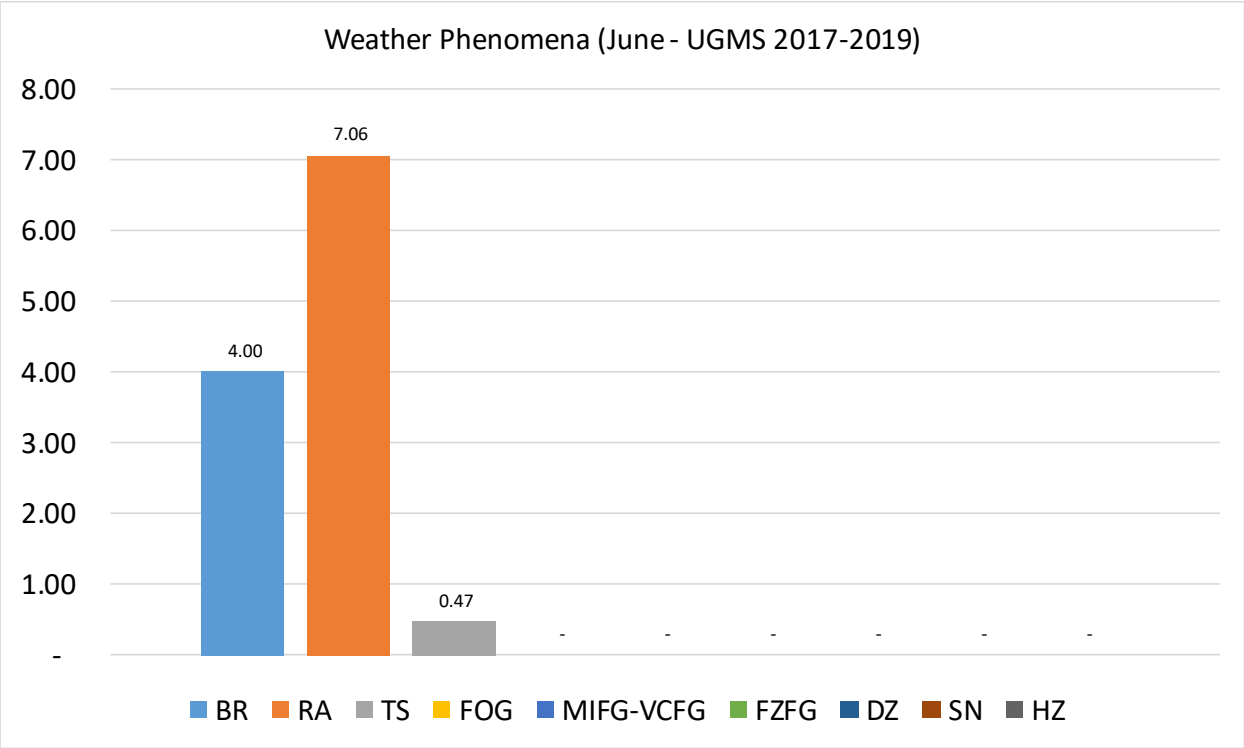
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: JUNE PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 5.74 | 8.20 | - | - | - | - | - | - | - |
| 0430 | 4.10 | 5.74 | 1.64 | - | - | - | - | - | - |
| 0500 | 4.10 | 7.38 | 1.64 | - | - | - | - | - | - |
| 0530 | 3.91 | 9.38 | 1.56 | - | - | - | - | - | - |
| 0600 | 5.69 | 5.69 | - | - | - | - | - | - | - |
| 0630 | 5.83 | 10.00 | - | - | - | - | - | - | - |
| 0700 | 5.74 | 4.92 | - | - | - | - | - | - | - |
| 0730 | 6.67 | 5.83 | - | - | - | - | - | - | - |
| 0800 | 4.20 | 10.08 | - | - | - | - | - | - | - |
| 0830 | 3.33 | 7.50 | - | - | - | - | - | - | - |
| 0900 | 5.04 | 5.88 | - | - | - | - | - | - | - |
| 0930 | 5.00 | 9.17 | - | - | - | - | - | - | - |
| 1000 | 2.44 | 8.13 | 0.81 | - | - | - | - | - | - |
| 1030 | 2.50 | 5.83 | 1.67 | - | - | - | - | - | - |
| 1100 | 2.48 | 4.96 | 1.65 | - | - | - | - | - | - |
| 1130 | 0.85 | 4.24 | - | - | - | - | - | - | - |
| 1200 | 3.25 | 7.32 | - | - | - | - | - | - | - |
| 1230 | 2.61 | 6.09 | - | - | - | - | - | - | - |
| 1300 | 2.61 | 7.83 | - | - | - | - | - | - | - |
| Mean | 4.00 | 7.06 | 0.47 | - | - | - | - | - | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in June are: rain – 7.06%,mist – 4.00%.

The activity of thunderstorms in June constitutes 0.47%.

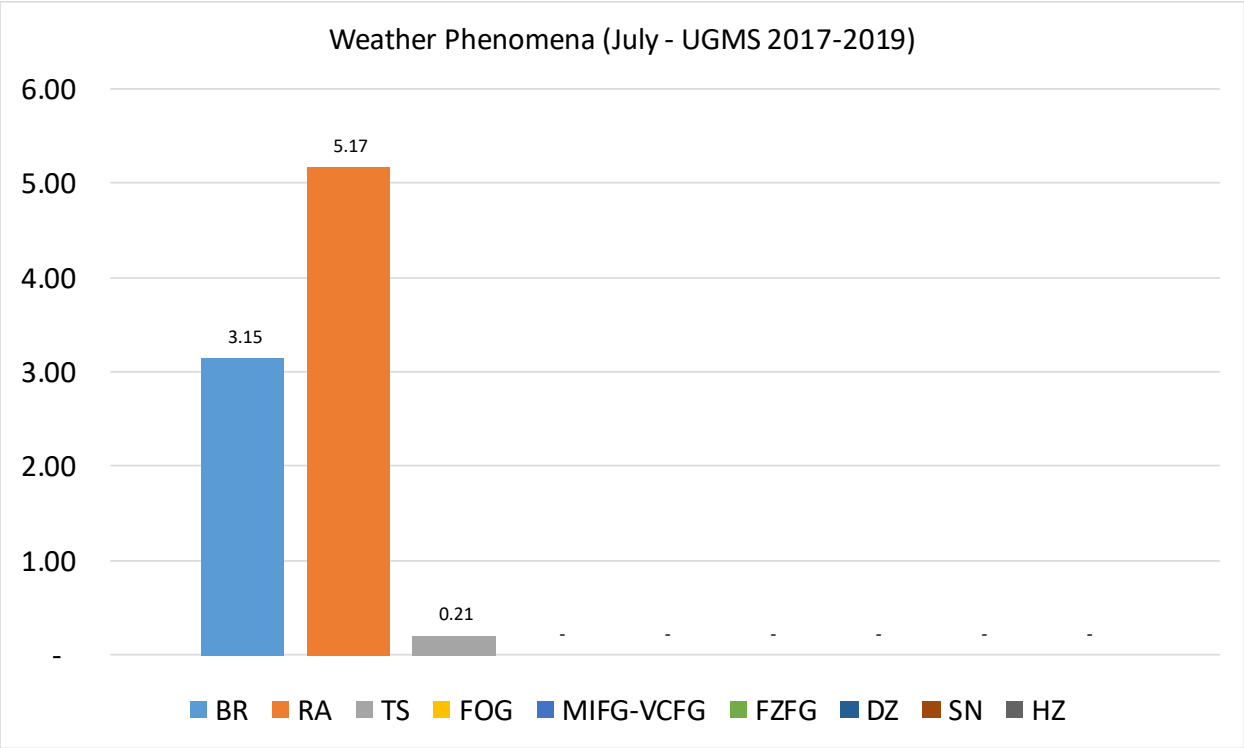
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: JULY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 5.38 | 6.92 | 0.77 | - | - | - | - | - | - |
| 0430 | 4.72 | 7.09 | 0.79 | - | - | - | - | - | - |
| 0500 | 4.92 | 9.84 | - | - | - | - | - | - | - |
| 0530 | 5.69 | 11.38 | - | - | - | - | - | - | - |
| 0600 | 5.56 | 4.76 | 1.59 | - | - | - | - | - | - |
| 0630 | 3.33 | 5.83 | - | - | - | - | - | - | - |
| 0700 | 4.88 | 4.07 | - | - | - | - | - | - | - |
| 0730 | 4.13 | 3.31 | - | - | - | - | - | - | - |
| 0800 | 3.13 | 4.69 | - | - | - | - | - | - | - |
| 0830 | 3.15 | 3.94 | - | - | - | - | - | - | - |
| 0900 | 2.48 | 2.48 | - | - | - | - | - | - | - |
| 0930 | 2.52 | 4.20 | - | - | - | - | - | - | - |
| 1000 | 3.28 | 4.10 | - | - | - | - | - | - | - |
| 1030 | 4.20 | 4.20 | - | - | - | - | - | - | - |
| 1100 | 0.83 | 3.31 | - | - | - | - | - | - | - |
| 1130 | 0.83 | 4.13 | 0.83 | - | - | - | - | - | - |
| 1200 | 0.81 | 5.65 | - | - | - | - | - | - | - |
| 1230 | - | 4.07 | - | - | - | - | - | - | - |
| 1300 | - | 4.24 | - | - | - | - | - | - | - |
| Mean | 3.15 | 5.17 | 0.21 | - | - | - | - | - | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in July are: rain – 5.17%, mist – 3.15%.

The activity of thunderstorms in July constitutes 0.21%.

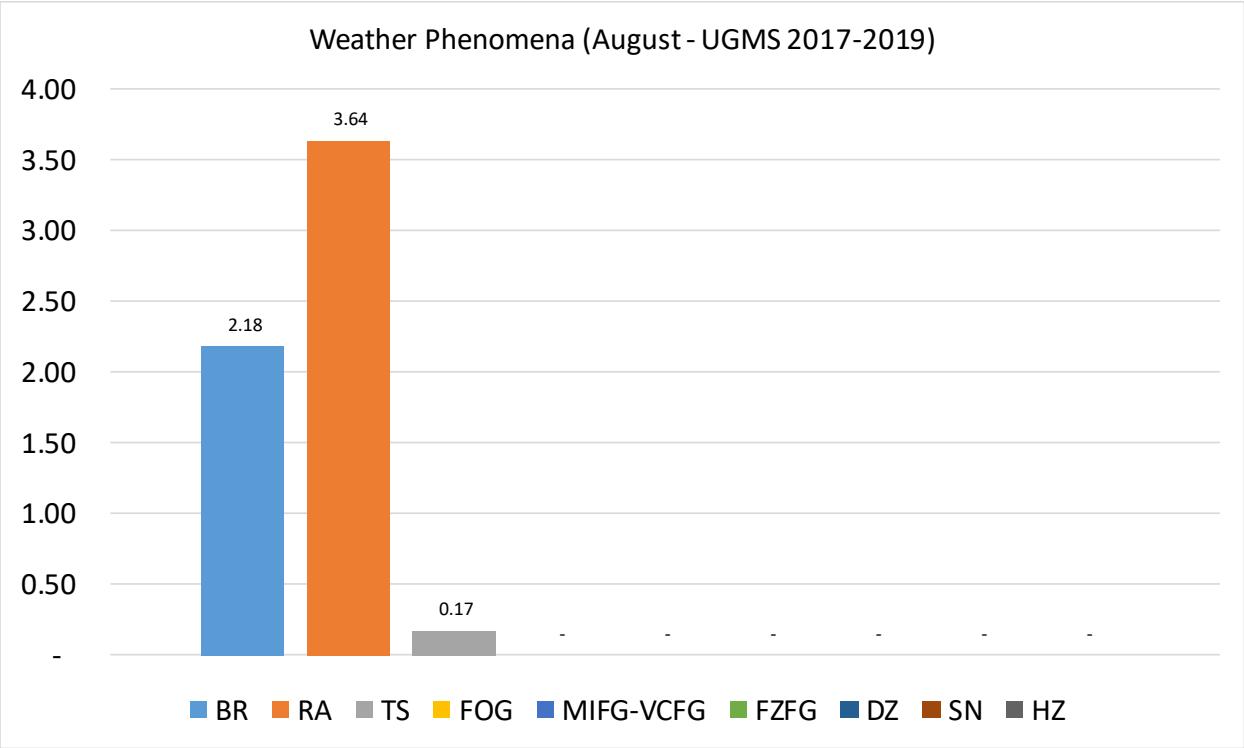
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: AUGUST PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 6.40 | 3.20 | - | - | - | - | - | - | - |
| 0430 | 4.92 | 3.28 | - | - | - | - | - | - | - |
| 0500 | 2.46 | 1.64 | - | - | - | - | - | - | - |
| 0530 | 1.56 | 3.91 | - | - | - | - | - | - | - |
| 0600 | 4.07 | 2.44 | - | - | - | - | - | - | - |
| 0630 | 2.40 | 3.20 | - | - | - | - | - | - | - |
| 0700 | 2.48 | 0.83 | - | - | - | - | - | - | - |
| 0730 | 2.42 | 4.03 | - | - | - | - | - | - | - |
| 0800 | - | 1.67 | - | - | - | - | - | - | - |
| 0830 | 0.79 | 3.94 | - | - | - | - | - | - | - |
| 0900 | 1.59 | 4.76 | - | - | - | - | - | - | - |
| 0930 | 0.83 | 3.33 | - | - | - | - | - | - | - |
| 1000 | 0.83 | 2.50 | - | - | - | - | - | - | - |
| 1030 | 0.81 | 4.07 | - | - | - | - | - | - | - |
| 1100 | 3.33 | 5.00 | 1.67 | - | - | - | - | - | - |
| 1130 | 1.61 | 6.45 | - | - | - | - | - | - | - |
| 1200 | 1.64 | 4.10 | - | - | - | - | - | - | - |
| 1230 | 3.31 | 6.61 | 1.65 | - | - | - | - | - | - |
| 1300 | - | 4.20 | - | - | - | - | - | - | - |
| Mean | 2.18 | 3.64 | 0.17 | - | - | - | - | - | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in August are: rain – 3.64%, mist – 2.18%.

The activity of thunderstorms in August constitutes 0.17%.

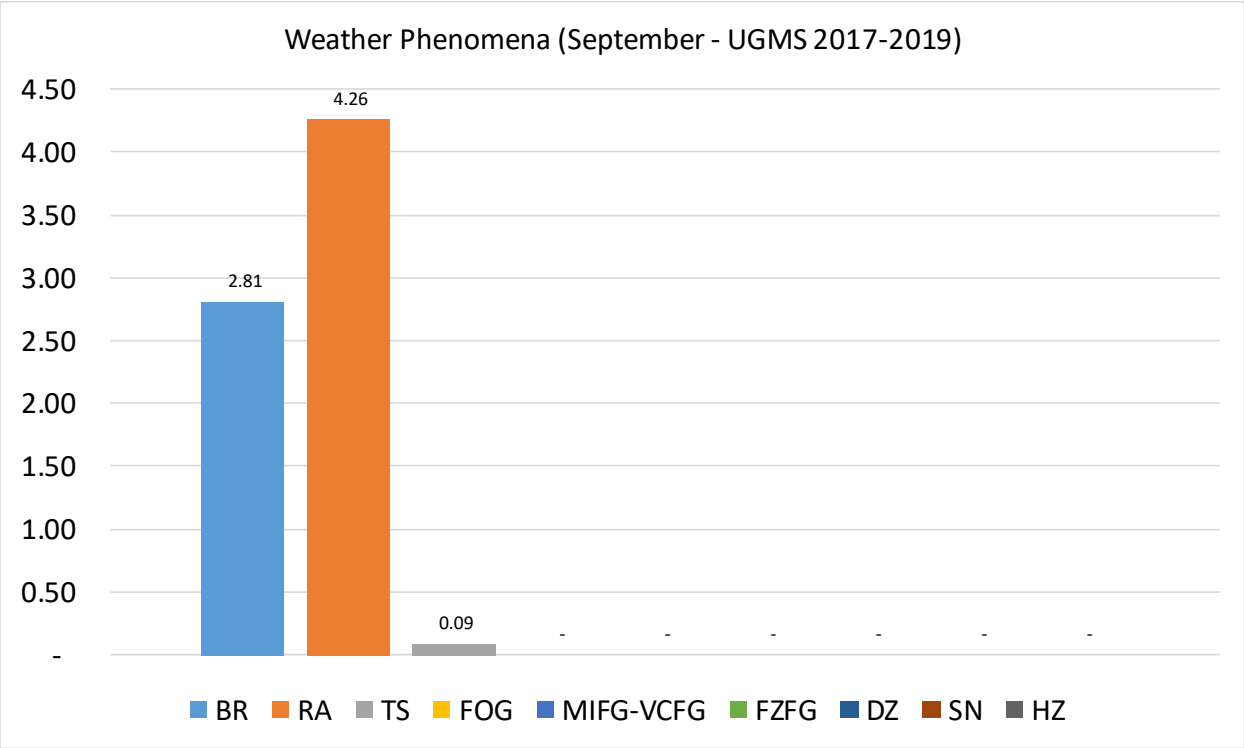
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: SEPTEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 7.32 | 7.32 | - | - | - | - | - | - | - |
| 0430 | 6.67 | 3.33 | - | - | - | - | - | - | - |
| 0500 | 5.47 | 6.25 | - | - | - | - | - | - | - |
| 0530 | 3.28 | 6.56 | - | - | - | - | - | - | - |
| 0600 | 3.88 | 6.20 | - | - | - | - | - | - | - |
| 0630 | 4.13 | 6.61 | - | - | - | - | - | - | - |
| 0700 | 2.44 | 4.07 | - | - | - | - | - | - | - |
| 0730 | 1.64 | 4.10 | - | - | - | - | - | - | - |
| 0800 | 1.61 | 6.45 | - | - | - | - | - | - | - |
| 0830 | 2.48 | 4.96 | - | - | - | - | - | - | - |
| 0900 | 1.68 | 3.36 | 0.84 | - | - | - | - | - | - |
| 0930 | 1.71 | 1.71 | 0.85 | - | - | - | - | - | - |
| 1000 | 1.74 | 0.87 | - | - | - | - | - | - | - |
| 1030 | 1.67 | 2.50 | - | - | - | - | - | - | - |
| 1100 | 2.46 | 4.92 | - | - | - | - | - | - | - |
| 1130 | 0.85 | 3.39 | - | - | - | - | - | - | - |
| 1200 | 0.81 | 4.84 | - | - | - | - | - | - | - |
| 1230 | 1.68 | 2.52 | - | - | - | - | - | - | - |
| 1300 | 1.80 | 0.90 | - | - | - | - | - | - | - |
| Mean | 2.81 | 4.26 | 0.09 | - | - | - | - | - | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in September are: rain – 4.26%, mist – 2.81%.

The activity of thunderstorms in September constitutes 0.09%.

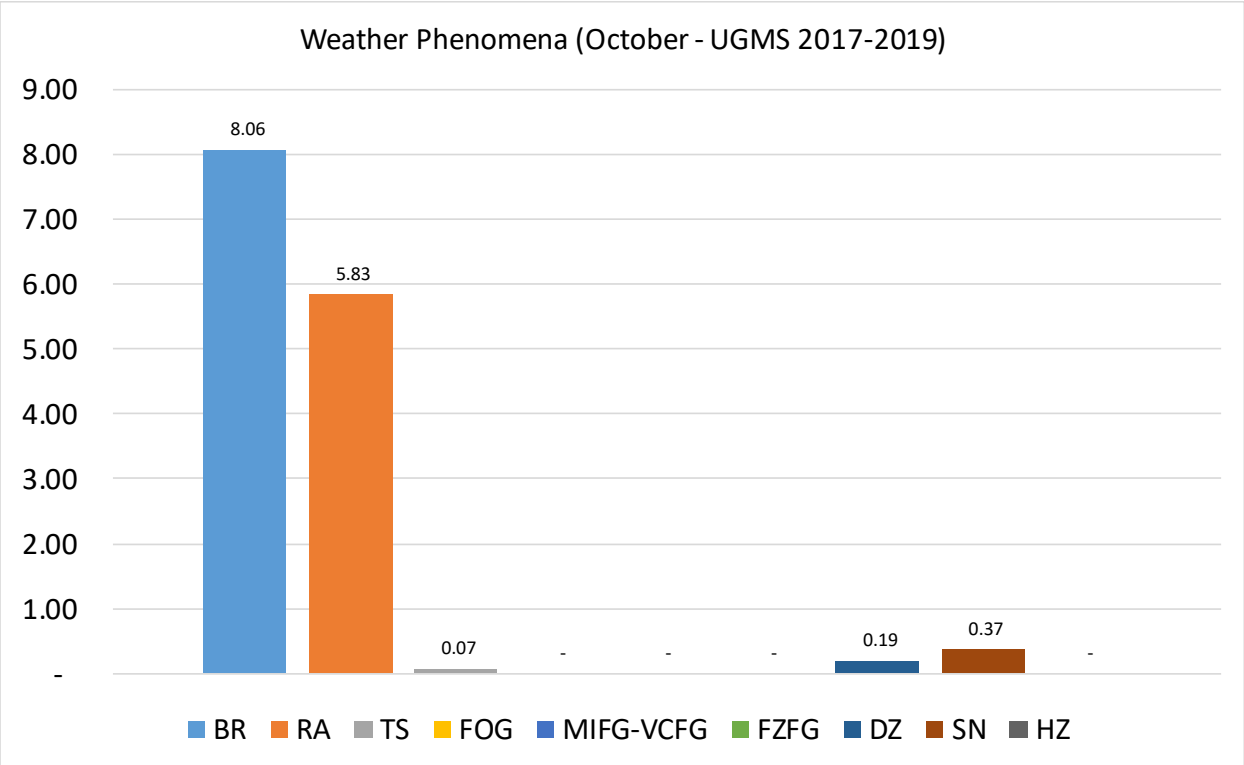
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: OCTOBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 8.33 | 4.76 | - | - | - | - | - | 2.38 | - |
| 0430 | 6.90 | 5.75 | - | - | - | - | - | 2.30 | - |
| 0500 | 7.06 | 4.71 | - | - | - | - | 1.18 | 2.35 | - |
| 0530 | 10.98 | 4.88 | - | - | - | - | 1.22 | - | - |
| 0600 | 8.43 | 7.23 | - | - | - | - | 1.20 | - | - |
| 0630 | 9.64 | 6.02 | - | - | - | - | - | - | - |
| 0700 | 8.54 | 4.88 | - | - | - | - | - | - | - |
| 0730 | 6.02 | 2.41 | - | - | - | - | - | - | - |
| 0800 | 10.98 | 6.10 | - | - | - | - | - | - | - |
| 0830 | 9.76 | 4.88 | - | - | - | - | - | - | - |
| 0900 | 9.64 | 2.41 | - | - | - | - | - | - | - |
| 0930 | 10.00 | 6.25 | 1.25 | - | - | - | - | - | - |
| 1000 | 8.33 | 8.33 | - | - | - | - | - | - | - |
| 1030 | 7.32 | 6.10 | - | - | - | - | - | - | - |
| 1100 | 7.32 | 9.76 | - | - | - | - | - | - | - |
| 1130 | 5.88 | 7.06 | - | - | - | - | - | - | - |
| 1200 | 7.32 | 8.54 | - | - | - | - | - | - | - |
| 1230 | 5.95 | 5.95 | - | - | - | - | - | - | - |
| 1300 | 4.71 | 4.71 | - | - | - | - | - | - | - |
| Mean | 8.06 | 5.83 | 0.07 | - | - | - | 0.19 | 0.37 | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in October are: mist – 8.06%, rain – 5.83%, snow – 0.37%.

The activity of thunderstorms in October constitutes 0.07%.

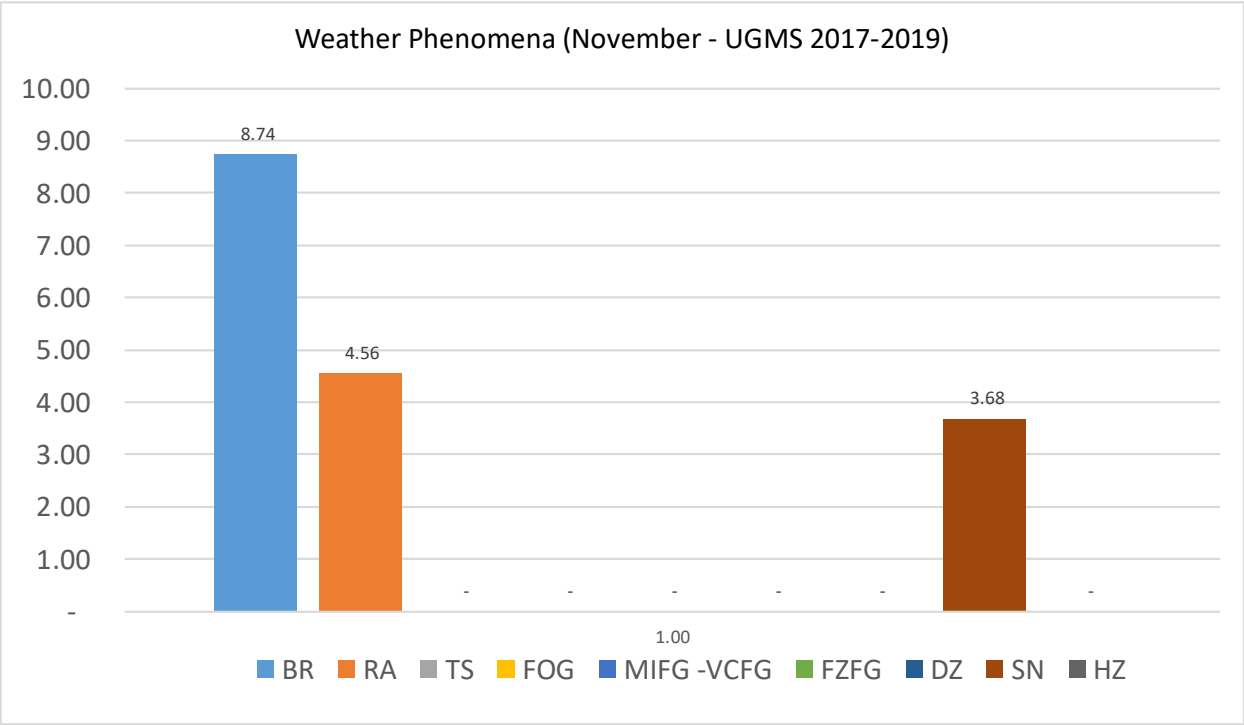
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: NOVEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4320 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 13.79 | 5.75 | - | - | - | - | - | 5.75 | - |
| 0430 | 15.29 | 4.71 | - | - | - | - | - | 5.88 | - |
| 0500 | 14.29 | 7.14 | - | - | - | - | - | 4.76 | - |
| 0530 | 9.52 | 4.76 | - | - | - | - | - | 4.76 | - |
| 0600 | 8.05 | 8.05 | - | - | - | - | - | 5.75 | - |
| 0630 | 12.05 | 2.41 | - | - | - | - | - | 4.82 | - |
| 0700 | 11.90 | 4.76 | - | - | - | - | - | 4.76 | - |
| 0730 | 11.90 | 7.14 | - | - | - | - | - | 4.76 | - |
| 0800 | 10.98 | 6.10 | - | - | - | - | - | 1.22 | - |
| 0830 | 9.41 | 3.53 | - | - | - | - | - | 1.18 | - |
| 0900 | 5.88 | - | - | - | - | - | - | 4.71 | - |
| 0930 | 7.14 | 2.38 | - | - | - | - | - | 2.38 | - |
| 1000 | 6.17 | 2.47 | - | - | - | - | - | 2.47 | - |
| 1030 | 4.82 | 4.82 | - | - | - | - | - | 3.61 | - |
| 1100 | 6.02 | 6.02 | - | - | - | - | - | 4.82 | - |
| 1130 | 4.71 | 7.06 | - | - | - | - | - | 3.53 | - |
| 1200 | 3.61 | 4.82 | - | - | - | - | - | 2.41 | - |
| 1230 | 5.95 | 2.38 | - | - | - | - | - | 1.19 | - |
| 1300 | 4.55 | 2.27 | - | - | - | - | - | 1.14 | - |
| Mean | 8.74 | 4.56 | - | - | - | - | - | 3.68 | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in November are: mist - 8.74%, rain – 4.56%, snow – 3.68%.

No thunderstorm activities were observed in November.

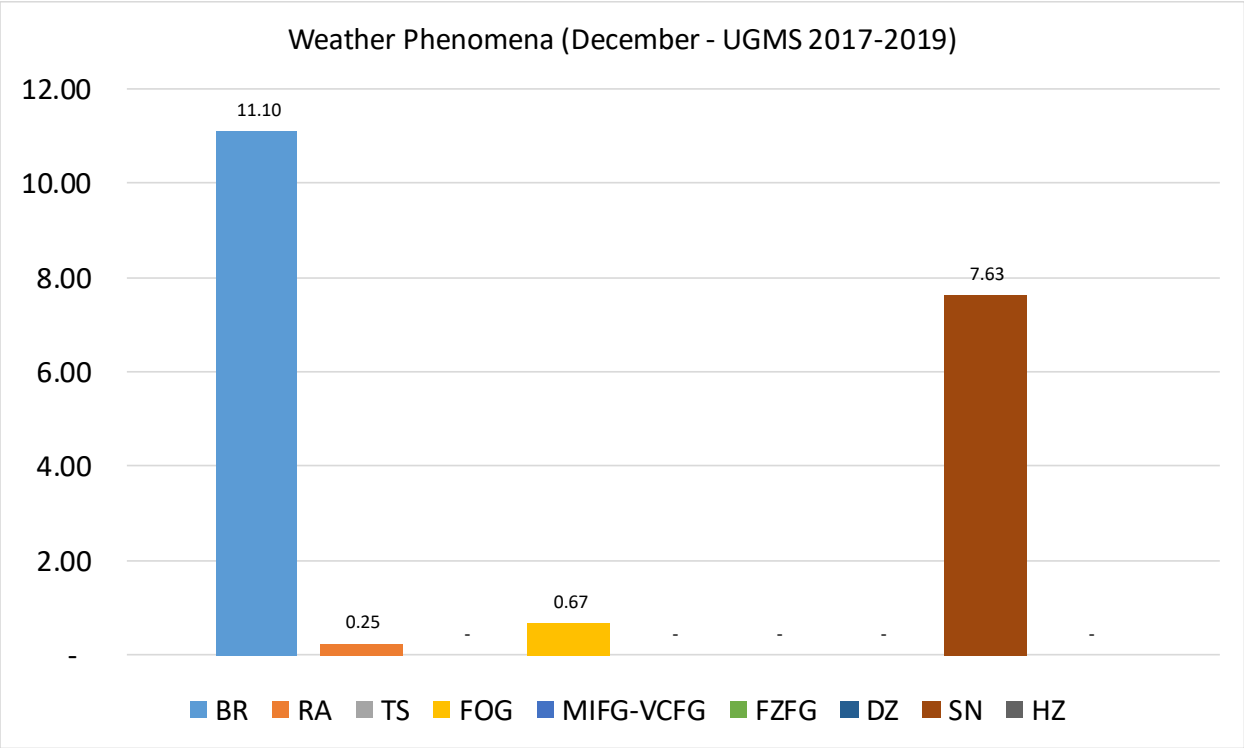
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS MONTH: DECEMBER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 4464 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 9.20 | 1.15 | - | - | - | - | - | 8.05 | - |
| 0430 | 11.76 | - | - | - | - | - | - | 8.24 | - |
| 0500 | 10.71 | - | - | - | - | - | - | 10.71 | - |
| 0530 | 10.23 | 1.14 | - | - | - | - | - | 9.09 | - |
| 0600 | 13.48 | - | - | - | - | - | - | 11.24 | - |
| 0630 | 11.76 | - | - | 1.18 | - | - | - | 5.88 | - |
| 0700 | 12.64 | - | - | 2.30 | - | - | - | 5.75 | - |
| 0730 | 9.41 | - | - | 2.35 | - | - | - | 8.24 | - |
| 0800 | 11.49 | - | - | 3.45 | - | - | - | 8.05 | - |
| 0830 | 11.63 | - | - | 1.16 | - | - | - | 5.81 | - |
| 0900 | 11.90 | - | - | - | - | - | - | 7.14 | - |
| 0930 | 13.10 | - | - | - | - | - | - | 4.76 | - |
| 1000 | 12.94 | - | - | 1.18 | - | - | - | 7.06 | - |
| 1030 | 10.71 | - | - | 1.19 | - | - | - | 9.52 | - |
| 1100 | 10.11 | - | - | - | - | - | - | 8.99 | - |
| 1130 | 10.84 | 1.20 | - | - | - | - | - | 8.43 | - |
| 1200 | 12.05 | 1.20 | - | - | - | - | - | 6.02 | - |
| 1230 | 9.64 | - | - | - | - | - | - | 6.02 | - |
| 1300 | 7.23 | - | - | - | - | - | - | 6.02 | - |
| Mean | 11.10 | 0.25 | - | 0.67 | - | - | - | 7.63 | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in December are: mist – 11.10%, snow – 7.61%, fog – 0.67%.

No thunderstorm activities were observed in December.

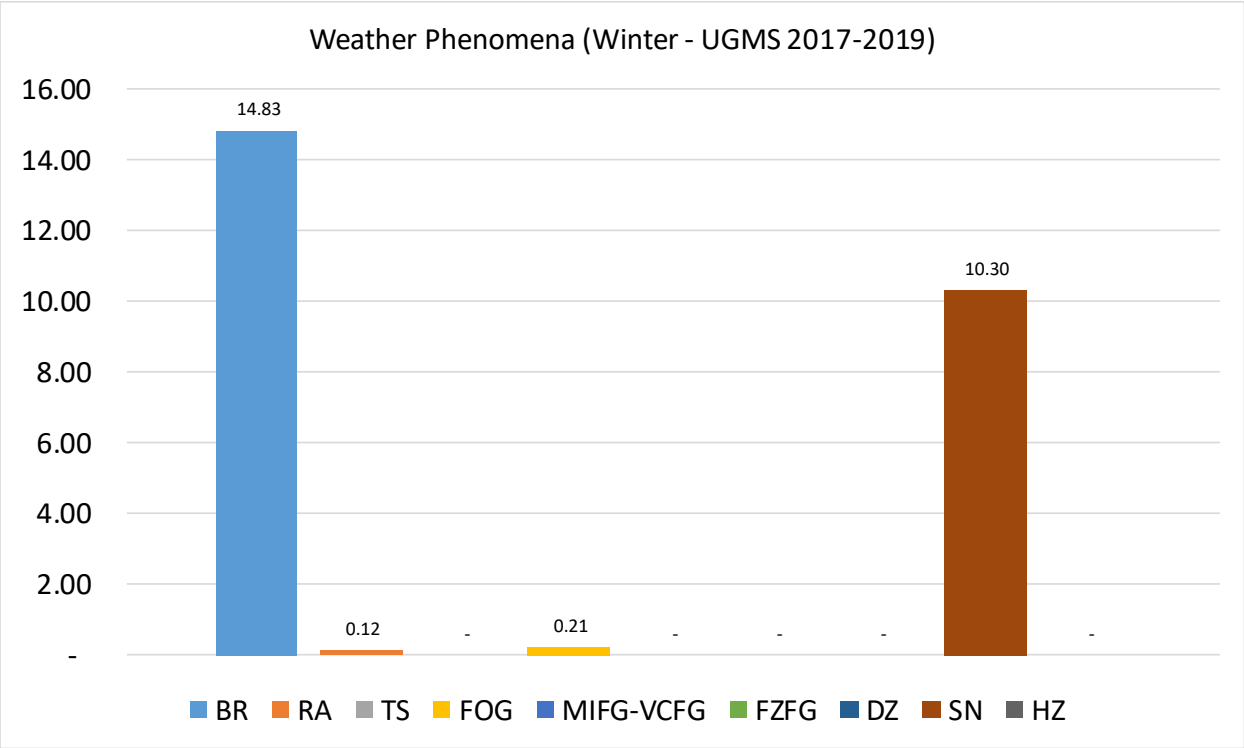
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS SEASON: WINTER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 12960 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 18.12 | 0.34 | - | 0.34 | - | - | - | 11.41 | - |
| 0430 | 17.45 | 0.34 | - | - | - | - | - | 14.43 | - |
| 0500 | 17.69 | - | - | - | - | - | - | 14.29 | - |
| 0530 | 14.19 | 0.68 | - | - | - | - | - | 13.85 | - |
| 0600 | 19.24 | - | - | - | - | - | - | 14.20 | - |
| 0630 | 19.67 | - | - | 0.33 | - | - | - | 10.33 | - |
| 0700 | 19.27 | - | - | 0.66 | - | - | - | 9.97 | - |
| 0730 | 15.77 | - | - | 0.67 | - | - | - | 10.07 | - |
| 0800 | 15.93 | 0.34 | - | 1.02 | - | - | - | 8.47 | - |
| 0830 | 13.09 | - | - | 0.34 | - | - | - | 8.05 | - |
| 0900 | 13.85 | - | - | - | - | - | - | 8.11 | - |
| 0930 | 13.99 | - | - | - | - | - | - | 10.92 | - |
| 1000 | 14.19 | - | - | 0.35 | - | - | - | 10.03 | - |
| 1030 | 12.20 | - | - | 0.34 | - | - | - | 11.19 | - |
| 1100 | 10.56 | - | - | - | - | - | - | 8.91 | - |
| 1130 | 11.03 | 0.34 | - | - | - | - | - | 8.28 | - |
| 1200 | 12.33 | 0.33 | - | - | - | - | - | 9.00 | - |
| 1230 | 12.79 | - | - | - | - | - | - | 7.41 | - |
| 1300 | 10.31 | - | - | - | - | - | - | 6.87 | - |
| Mean | 14.83 | 0.12 | - | 0.21 | - | - | - | 10.30 | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in Winter are: mist – 14.83%, snow – 10.30%, fog – 0.21%.

No thunderstorm activities were observed in Winter.

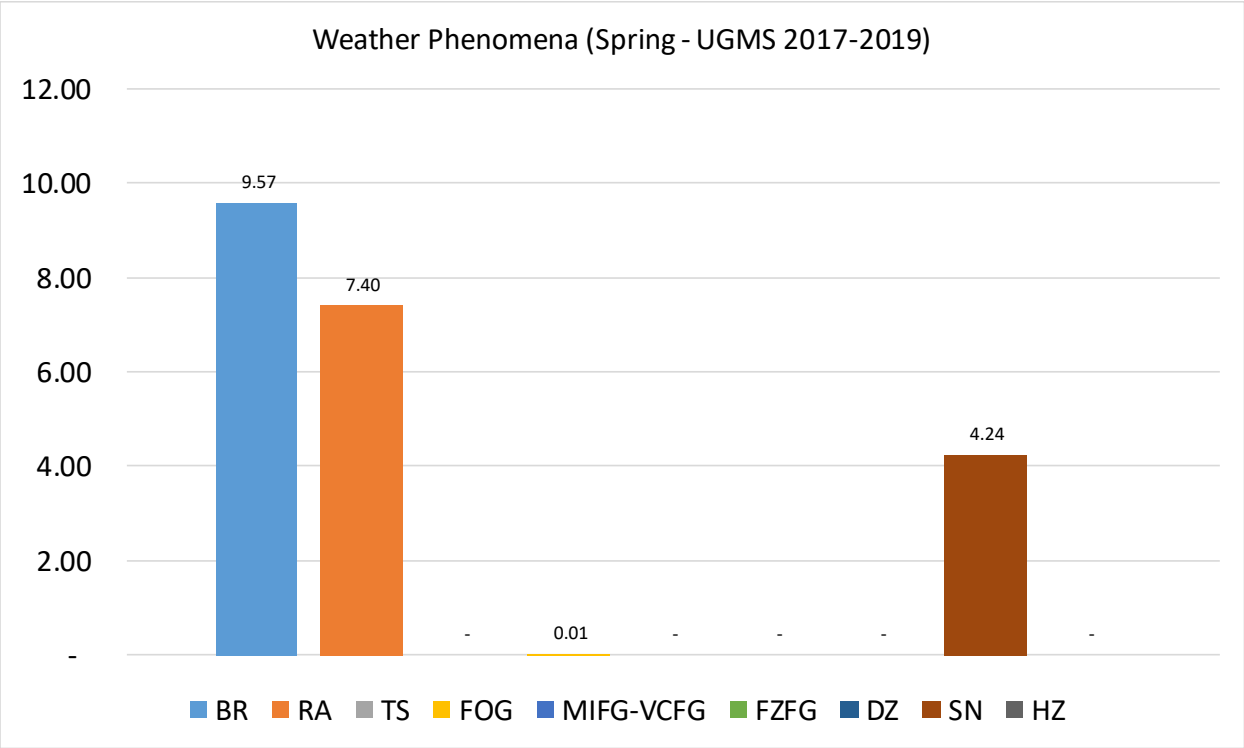
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS SEASON: SPRING PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 13248 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 10.96 | 11.24 | - | - | - | - | - | 5.62 | - |
| 0430 | 9.25 | 11.85 | - | - | - | - | - | 5.49 | - |
| 0500 | 8.73 | 9.01 | - | - | - | - | - | 6.20 | - |
| 0530 | 9.73 | 8.92 | - | 0.27 | - | - | - | 6.76 | - |
| 0600 | 11.88 | 8.84 | - | - | - | - | - | 6.08 | - |
| 0630 | 14.37 | 7.76 | - | - | - | - | - | 5.17 | - |
| 0700 | 12.50 | 9.30 | - | - | - | - | - | 4.07 | - |
| 0730 | 10.69 | 3.47 | - | - | - | - | - | 4.05 | - |
| 0800 | 10.57 | 6.00 | - | - | - | - | - | 5.14 | - |
| 0830 | 10.09 | 5.19 | - | - | - | - | - | 4.32 | - |
| 0900 | 10.29 | 5.14 | - | - | - | - | - | 6.00 | - |
| 0930 | 9.36 | 6.73 | - | - | - | - | - | 4.97 | - |
| 1000 | 8.62 | 7.76 | - | - | - | - | - | 2.59 | - |
| 1030 | 9.59 | 7.85 | - | - | - | - | - | 3.78 | - |
| 1100 | 7.76 | 7.76 | - | - | - | - | - | 1.72 | - |
| 1130 | 7.58 | 5.25 | - | - | - | - | - | 2.33 | - |
| 1200 | 7.49 | 6.34 | - | - | - | - | - | 3.17 | - |
| 1230 | 7.16 | 6.59 | - | - | - | - | - | 2.01 | - |
| 1300 | 5.31 | 5.60 | - | - | - | - | - | 1.18 | - |
| Mean | 9.57 | 7.40 | - | 0.01 | - | - | - | 4.24 | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in Spring are: mist– 9.57%, rain – 7.40%, snow – 4.24%.

No thunderstorm activities were observed in Spring.

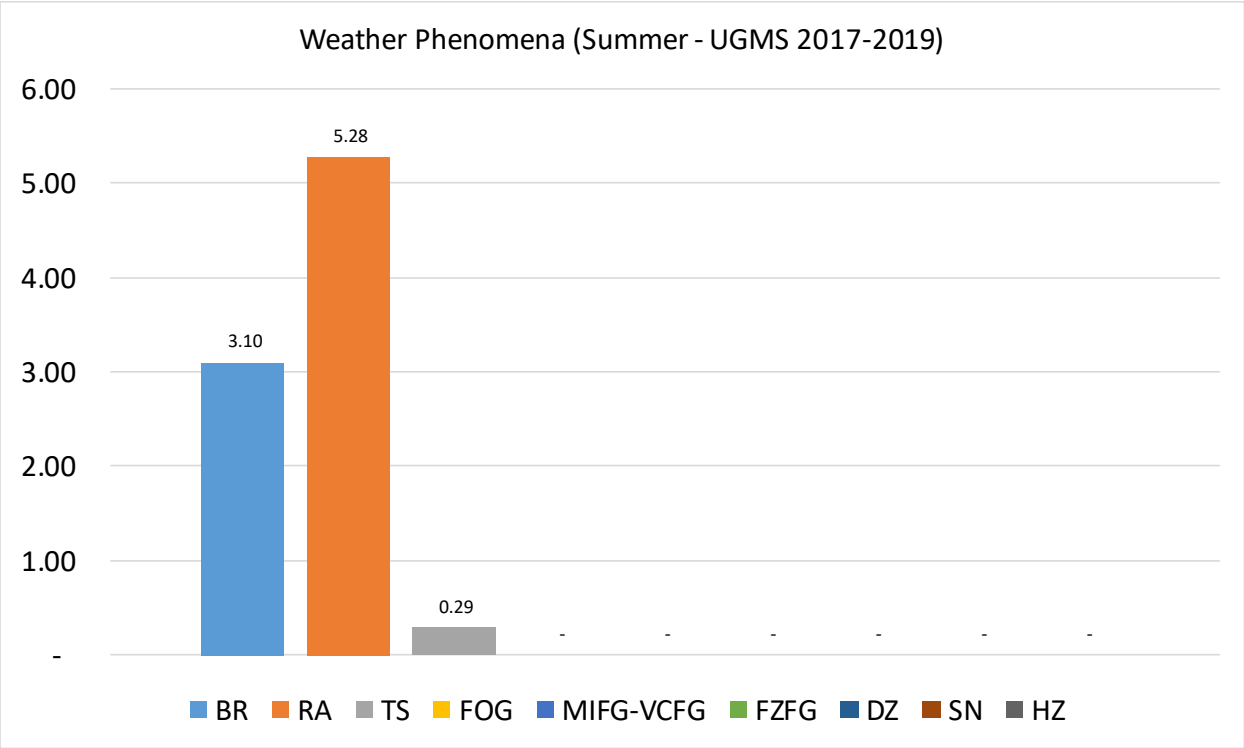
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS SEASON: SUMMER PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 13248 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 5.84 | 6.10 | 0.27 | - | - | - | - | - | - |
| 0430 | 4.58 | 5.39 | 0.81 | - | - | - | - | - | - |
| 0500 | 3.83 | 6.28 | 0.55 | - | - | - | - | - | - |
| 0530 | 3.69 | 8.18 | 0.53 | - | - | - | - | - | - |
| 0600 | 5.11 | 4.30 | 0.54 | - | - | - | - | - | - |
| 0630 | 3.84 | 6.30 | - | - | - | - | - | - | - |
| 0700 | 4.37 | 3.28 | - | - | - | - | - | - | - |
| 0730 | 4.38 | 4.38 | - | - | - | - | - | - | - |
| 0800 | 2.45 | 5.45 | - | - | - | - | - | - | - |
| 0830 | 2.41 | 5.08 | - | - | - | - | - | - | - |
| 0900 | 3.01 | 4.37 | - | - | - | - | - | - | - |
| 0930 | 2.79 | 5.57 | - | - | - | - | - | - | - |
| 1000 | 2.19 | 4.93 | 0.27 | - | - | - | - | - | - |
| 1030 | 2.49 | 4.70 | 0.55 | - | - | - | - | - | - |
| 1100 | 2.21 | 4.42 | 1.10 | - | - | - | - | - | - |
| 1130 | 1.10 | 4.96 | 0.28 | - | - | - | - | - | - |
| 1200 | 1.90 | 5.69 | - | - | - | - | - | - | - |
| 1230 | 1.95 | 5.57 | 0.56 | - | - | - | - | - | - |
| 1300 | 0.85 | 5.40 | - | - | - | - | - | - | - |
| Mean | 3.10 | 5.28 | 0.29 | - | - | - | - | - | - |




During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in Summer are: rain – 5.28%,  mist – 3.10%.

The activity of thunderstorms in Summer constitutes 0.29%.

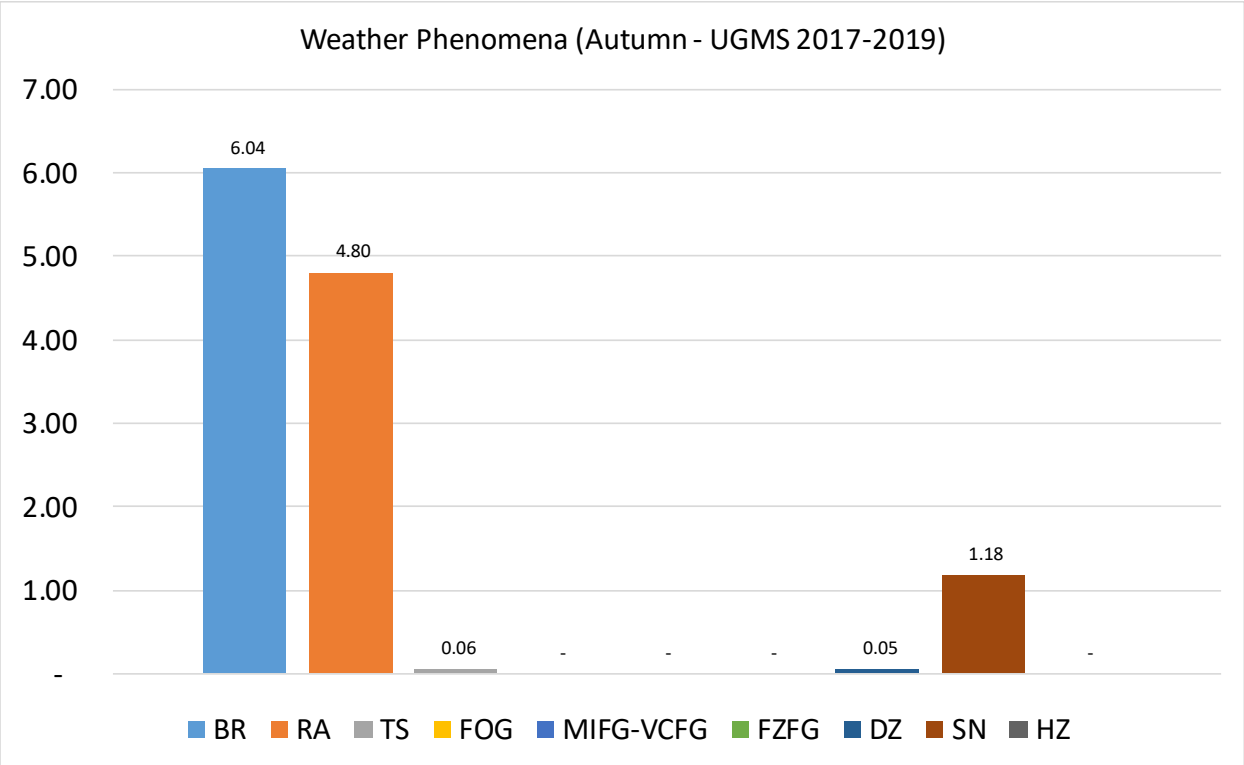
**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL H**
**TABULAR FORM**

AERODROME: UGMS SEASON: AUTUMN PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 13104 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES AT SPECIFIED TIMES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| 0400 | 9.52 | 6.12 | - | - | - | - | - | 2.38 | - |
| 0430 | 9.25 | 4.45 | - | - | - | - | - | 2.40 | - |
| 0500 | 8.42 | 6.06 | - | - | - | - | 0.34 | 2.02 | - |
| 0530 | 7.29 | 5.56 | - | - | - | - | 0.35 | 1.39 | - |
| 0600 | 6.35 | 7.02 | - | - | - | - | 0.33 | 1.67 | - |
| 0630 | 8.01 | 5.23 | - | - | - | - | - | 1.39 | - |
| 0700 | 6.92 | 4.50 | - | - | - | - | - | 1.38 | - |
| 0730 | 5.88 | 4.50 | - | - | - | - | - | 1.38 | - |
| 0800 | 6.94 | 6.25 | - | - | - | - | - | 0.35 | - |
| 0830 | 6.60 | 4.51 | - | - | - | - | - | 0.35 | - |
| 0900 | 5.23 | 2.09 | 0.35 | - | - | - | - | 1.39 | - |
| 0930 | 5.69 | 3.20 | 0.71 | - | - | - | - | 0.71 | - |
| 1000 | 5.00 | 3.57 | - | - | - | - | - | 0.71 | - |
| 1030 | 4.21 | 4.21 | - | - | - | - | - | 1.05 | - |
| 1100 | 4.88 | 6.62 | - | - | - | - | - | 1.39 | - |
| 1130 | 3.47 | 5.56 | - | - | - | - | - | 1.04 | - |
| 1200 | 3.46 | 5.88 | - | - | - | - | - | 0.69 | - |
| 1230 | 4.18 | 3.48 | - | - | - | - | - | 0.35 | - |
| 1300 | 3.52 | 2.46 | - | - | - | - | - | 0.35 | - |
| Mean | 6.04 | 4.80 | 0.06 | - | - | - | 0.05 | 1.18 | - |

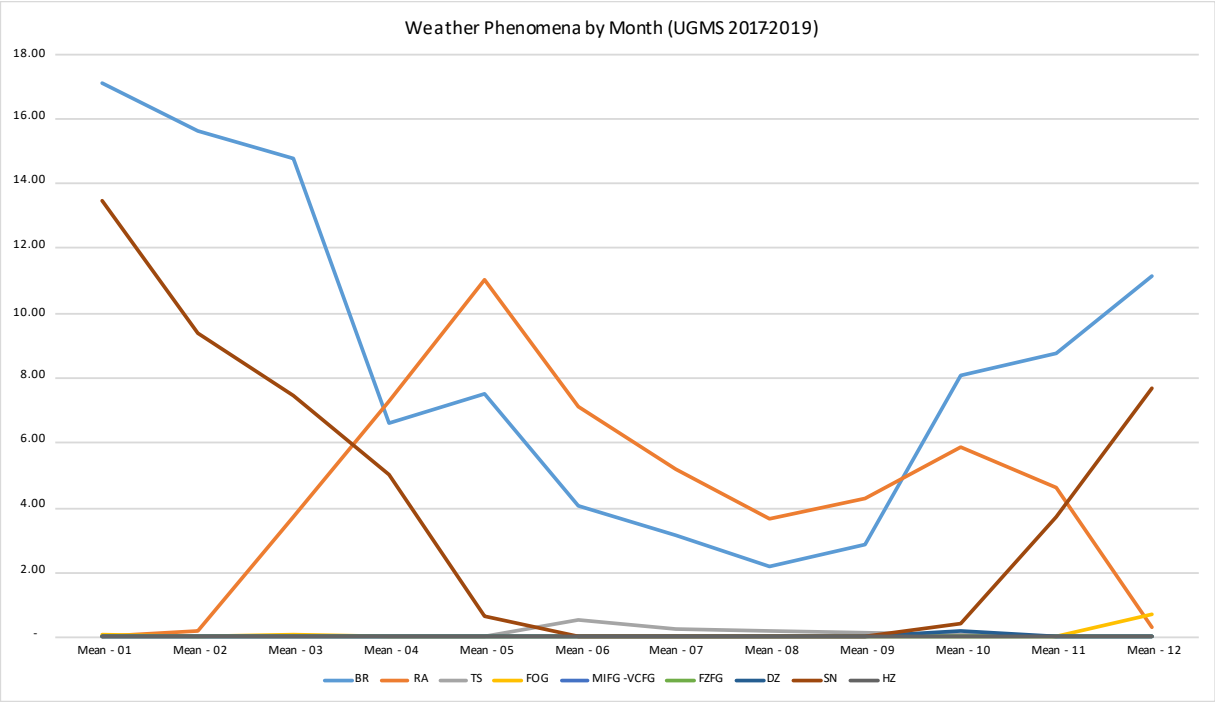



During the climatological period under review, at Mestia International Airport the prevailing weather phenomena in Autumn are: mist– 6.04%, rain – 4.80%, snow – 1.18%.

The activity of thunderstorms in Autumn constitutes 0.06%.

## WEATHER PHENOMENA AVERAGE BY MONTHS

| MEAN FREQUENCIES (PERCENT) OF WEATHER PHENOMENA OCCURRENCES BY MONTHS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME (UTC) | WEATHER PHENOMENA | | | | | | | | |
| | BR | RA | TS | FOG | MIFG - VCFG | FZFG | DZ | SN | HZ |
| January | 17.09 | - | - | 0.05 | - | - | - | 13.43 | - |
| February | 15.60 | 0.15 | - | - | - | - | - | 9.38 | - |
| March | 14.75 | 3.70 | - | 0.04 | - | - | - | 7.40 | - |
| April | 6.60 | 7.23 | - | - | - | - | - | 5.00 | - |
| May | 7.51 | 10 98 | - | - | - | - | - | 0.64 | - |
| June | 4.00 | 7.06 | 0.47 | - | - | - | - | - | - |
| July | 3.15 | 5.17 | 0.21 | - | - | - | - | - | - |
| August | 2.18 | 3.64 | 0.17 | - | - | - | - | - | - |
| September | 2.81 | 4.26 | 0.09 | - | - | - | - | - | - |
| October | 8.06 | 5.83 | 0.07 | - | - | - | 0.19 | 0.37 | - |
| November | 8.74 | 4.56 | - | - | - | - | - | 3.68 | - |
| December | 11.10 | 0.25 | - | 0.67 | - | - | - | 7.63 | - |



# CORRELATION BETWEEN MONTHLY RAINFALL AND AVERAGE TEMPERATURE

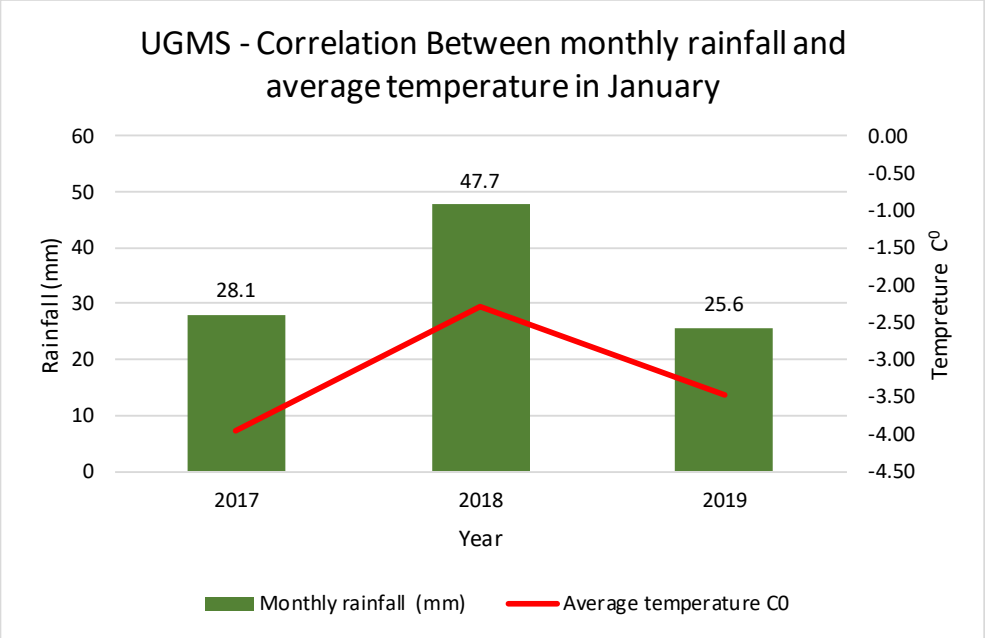
## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: JANUARY PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in January (UGMS) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 28.1 | -3.97 |
| 2018 | 47.7 | -2.30 |
| 2019 | 25.6 | -3.49 |
| Total rainfall | 111.6 | |

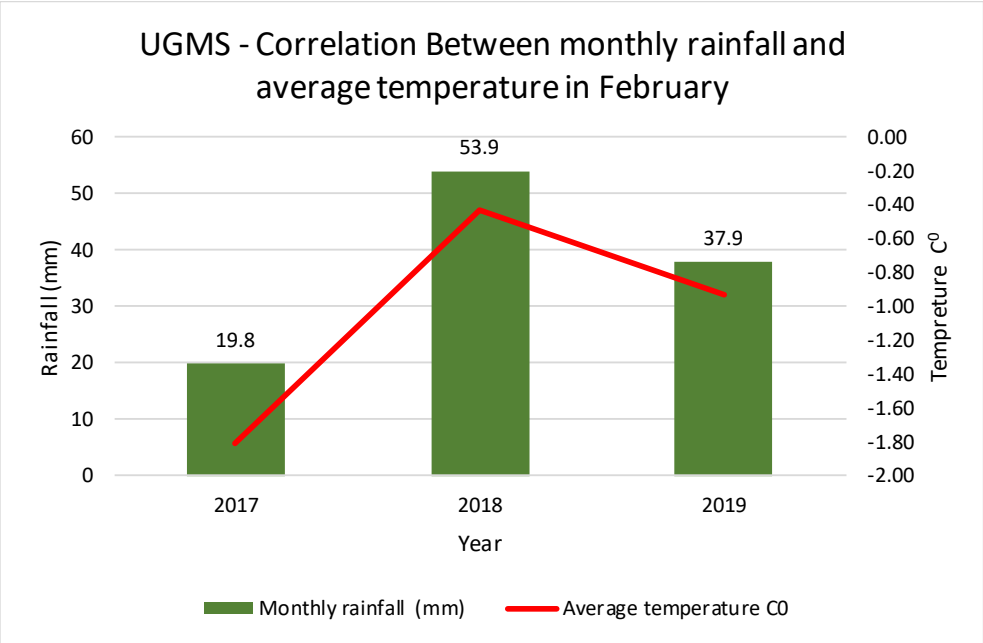


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: FEBRUARY PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in February (UGMS) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 19.8 | -1.81 |
| 2018 | 53.9 | -0.43 |
| 2019 | 37.9 | -0.93 |
| Total rainfall | 111.6 | |

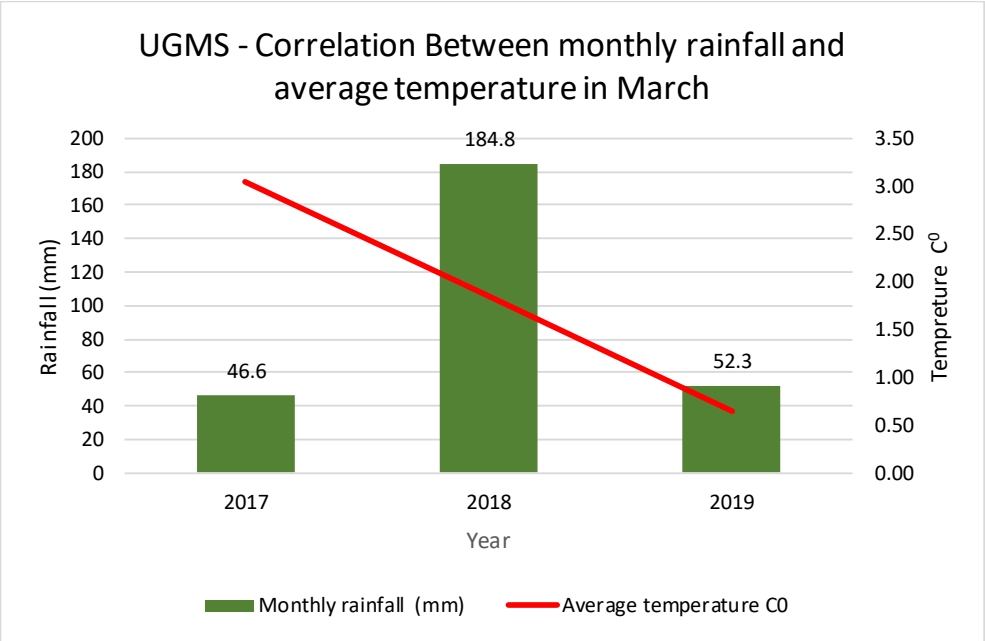


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: MARCH PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in March (UGMS) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 46.6 | 3.04 |
| 2018 | 184.8 | 1.85 |
| 2019 | 52.3 | 0.64 |
| Total rainfall | 283.7 | |

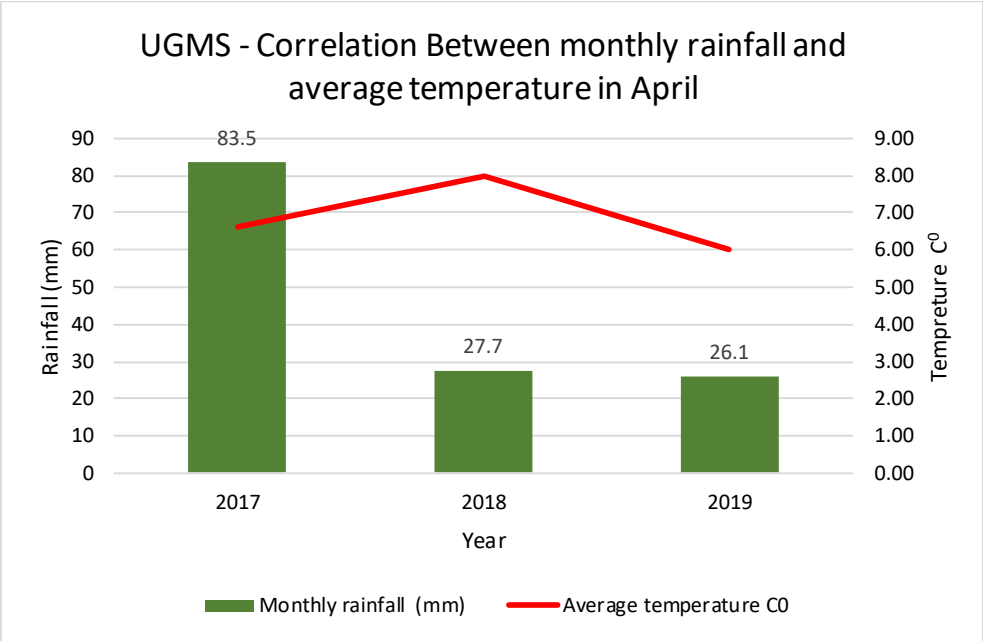


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: APRIL PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in April (UGMS) | | |
|---|---|---|
| Year, Month | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 83.5 | 6.63 |
| 2018 | 27.7 | 8.00 |
| 2019 | 26.1 | 6.01 |
| Total rainfall | 137.3 | |

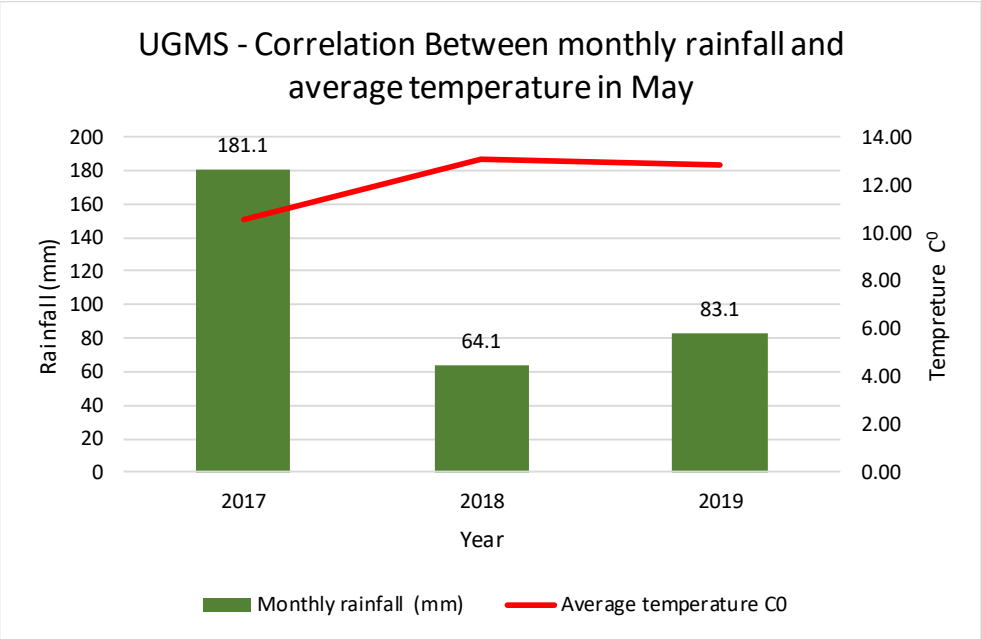


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: MAY PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in May (UGMS) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 181.1 | 10.57 |
| 2018 | 64.1 | 13.04 |
| 2019 | 83.1 | 12.86 |
| total rainfall | 328.3 | |

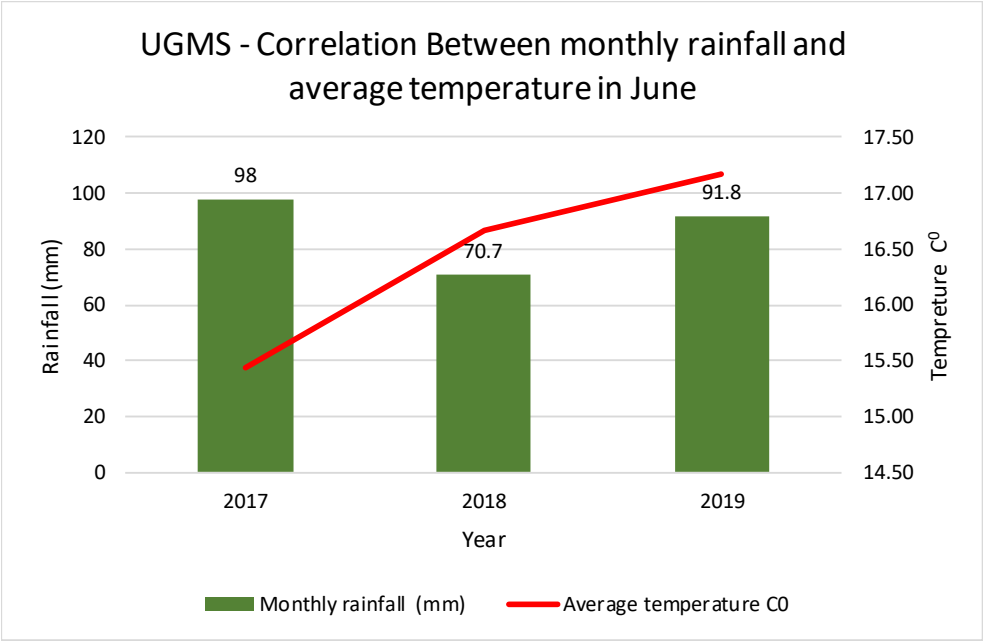


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: JUNE PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in June (UGMS) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 98 | 15.44 |
| 2018 | 70.7 | 16.66 |
| 2019 | 91.8 | 17.16 |
| Total rainfall | 260.5 | |

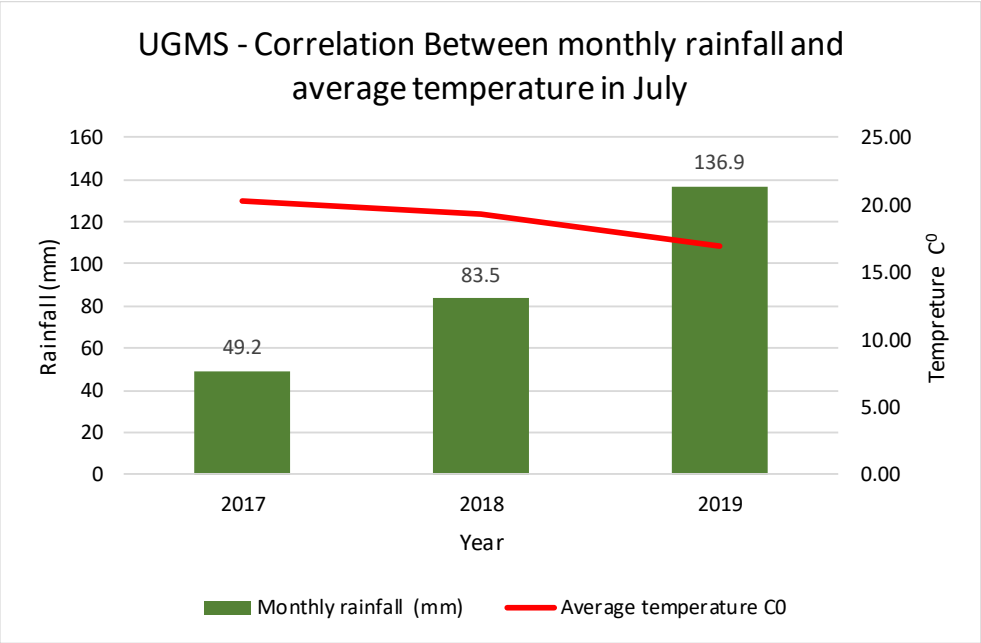


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: JULY PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in July (UGMS) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 49.2 | 20.32 |
| 2018 | 83.5 | 19.34 |
| 2019 | 136.9 | 16.90 |
| Total rainfall | 269.6 | |

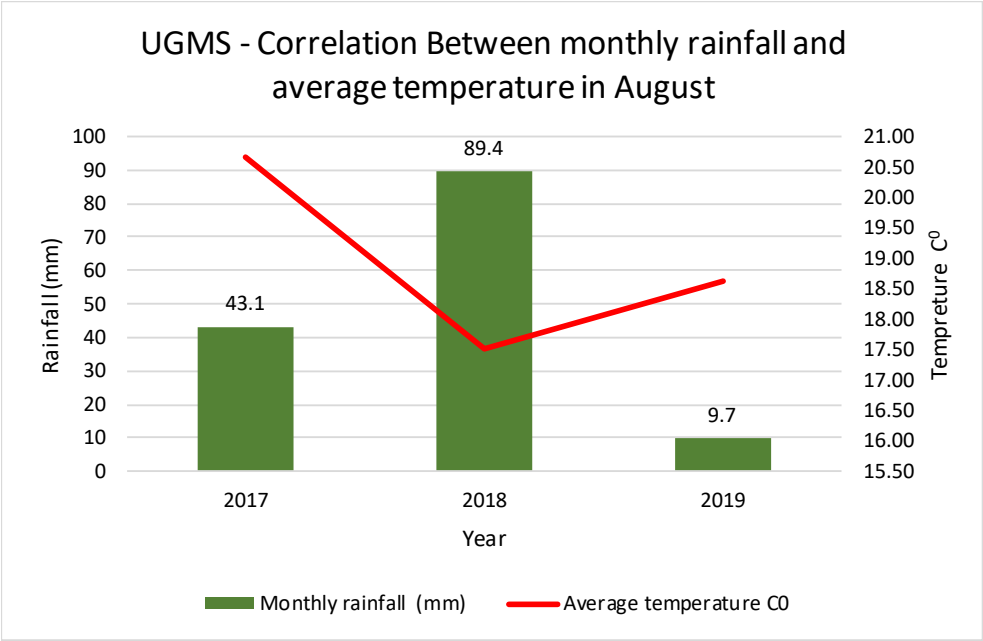


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: AUGUST PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in August (UGMS) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 43.1 | 20.66 |
| 2018 | 89.4 | 17.50 |
| 2019 | 9.7 | 18.63 |
| Total rainfall | 142.2 | |

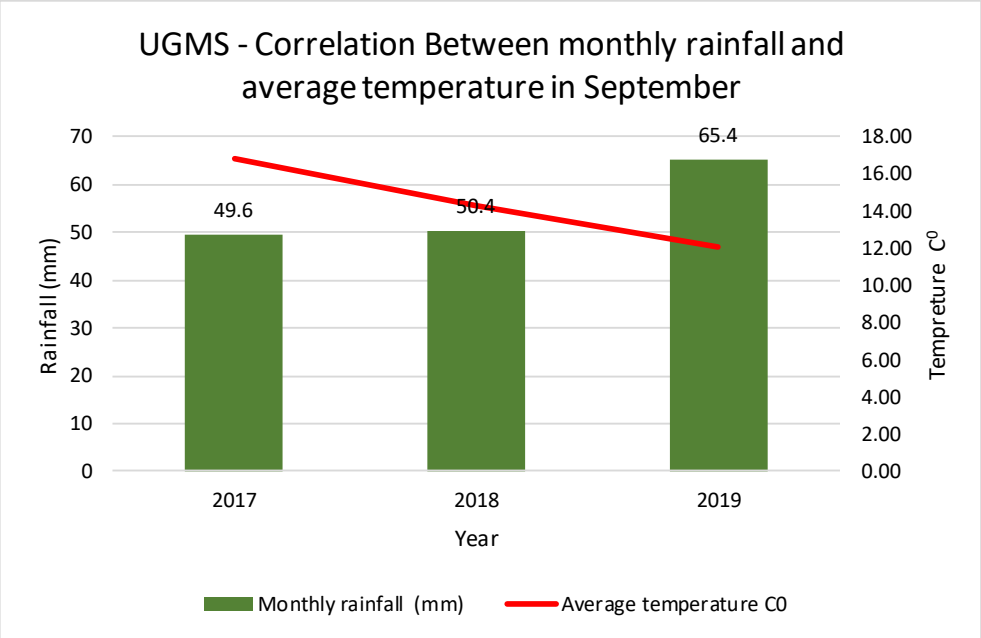


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: SEPTEMBER PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in September (UGMS) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 49.6 | 16.81 |
| 2018 | 50.4 | 14.30 |
| 2019 | 65.4 | 12.03 |
| Total rainfall | 165.4 | |

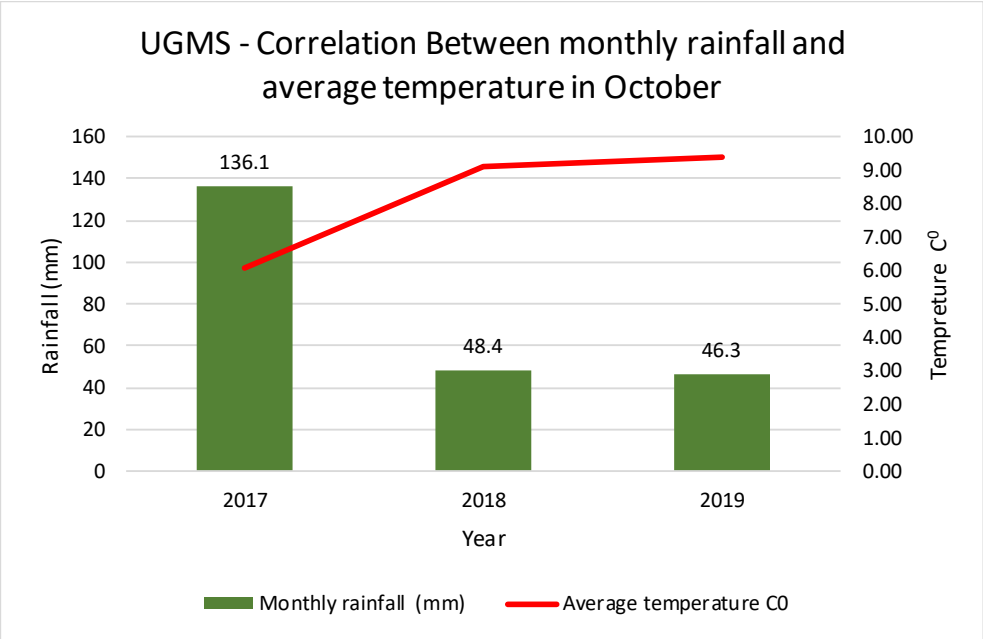


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: OCTOBER PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in October (UGMS) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 136.1 | 6.09 |
| 2018 | 48.4 | 9.09 |
| 2019 | 46.3 | 9.38 |
| Total rainfall | 230.8 | |

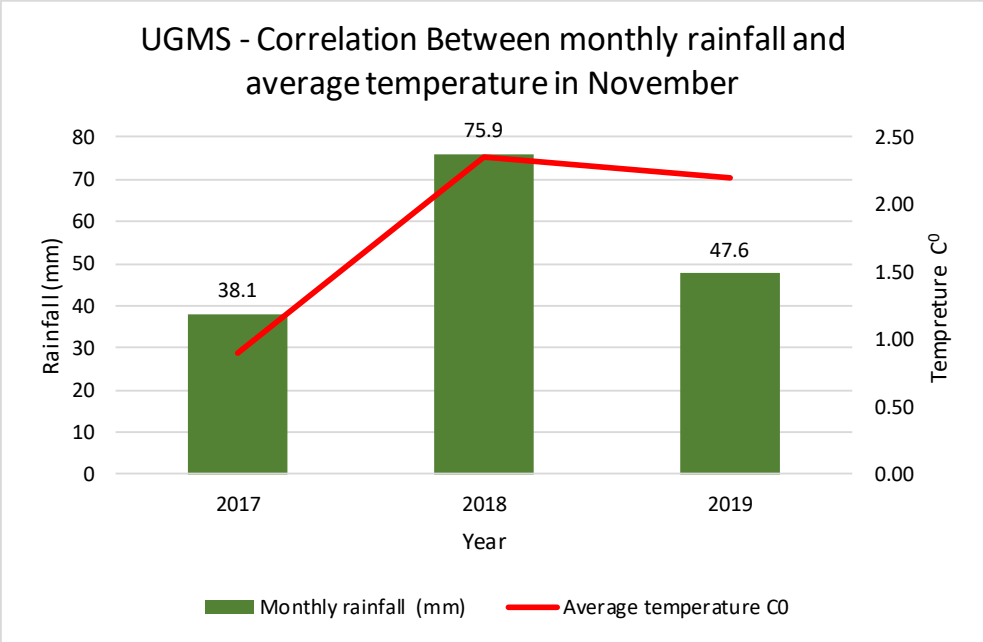


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: NOVEMBER PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in November (UGMS) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 38.1 | 0.90 |
| 2018 | 75.9 | 2.35 |
| 2019 | 47.6 | 2.20 |
| Total rainfall | 161.6 | |

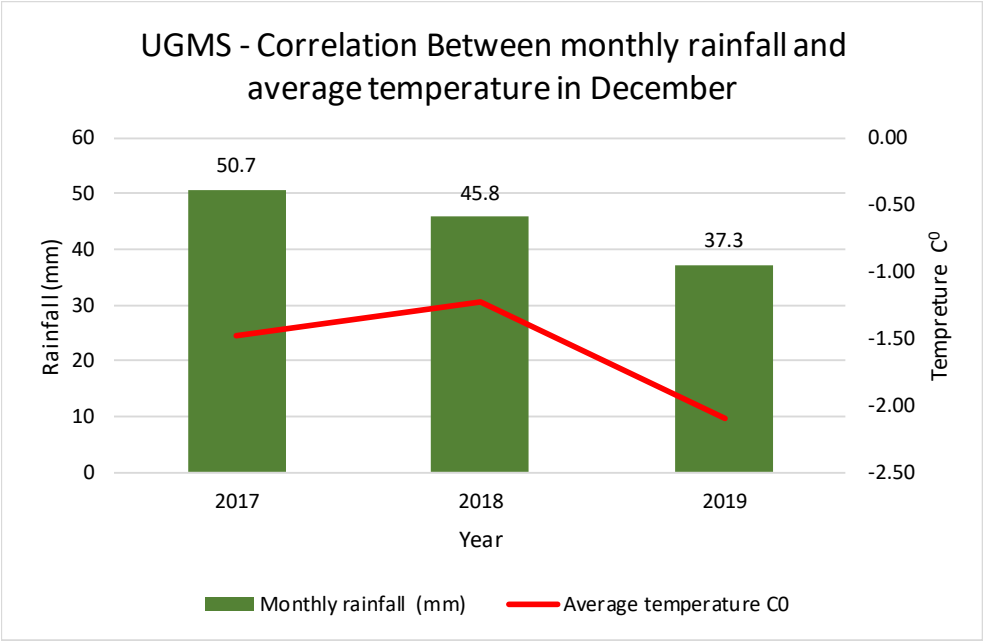


**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL I**
**TABULAR FORM**

AERODROME: UGMS MONTH: DECEMBER PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Correlation Between monthly rainfall and average temperature in December (UGMS) | | |
|---|---|---|
| Year | Monthly rainfall (mm) | Average temperature $C^0$ |
| 2017 | 50.7 | -1.48 |
| 2018 | 45.8 | -1.22 |
| 2019 | 37.3 | -2.10 |
| Total rainfall | 133.8 | |



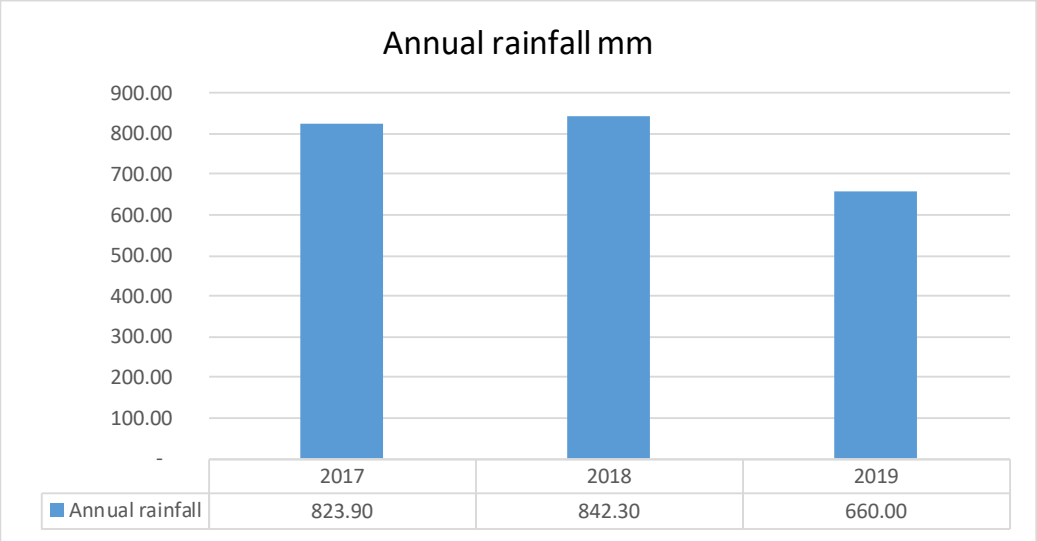
## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL J**
**TABULAR FORM**

AERODROME: UGMS ANNUAL PERIOD OF RECORD: 2017-2019

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

| Annual rainfall - UGMS | |
|---|---|
| Year | Rainfall (mm) |
| 2017 | 823.90 |
| 2018 | 842.30 |
| 2019 | 660.00 |



## AERONAUTICAL CLIMATOLOGY

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL K**
**TABULAR FORM**

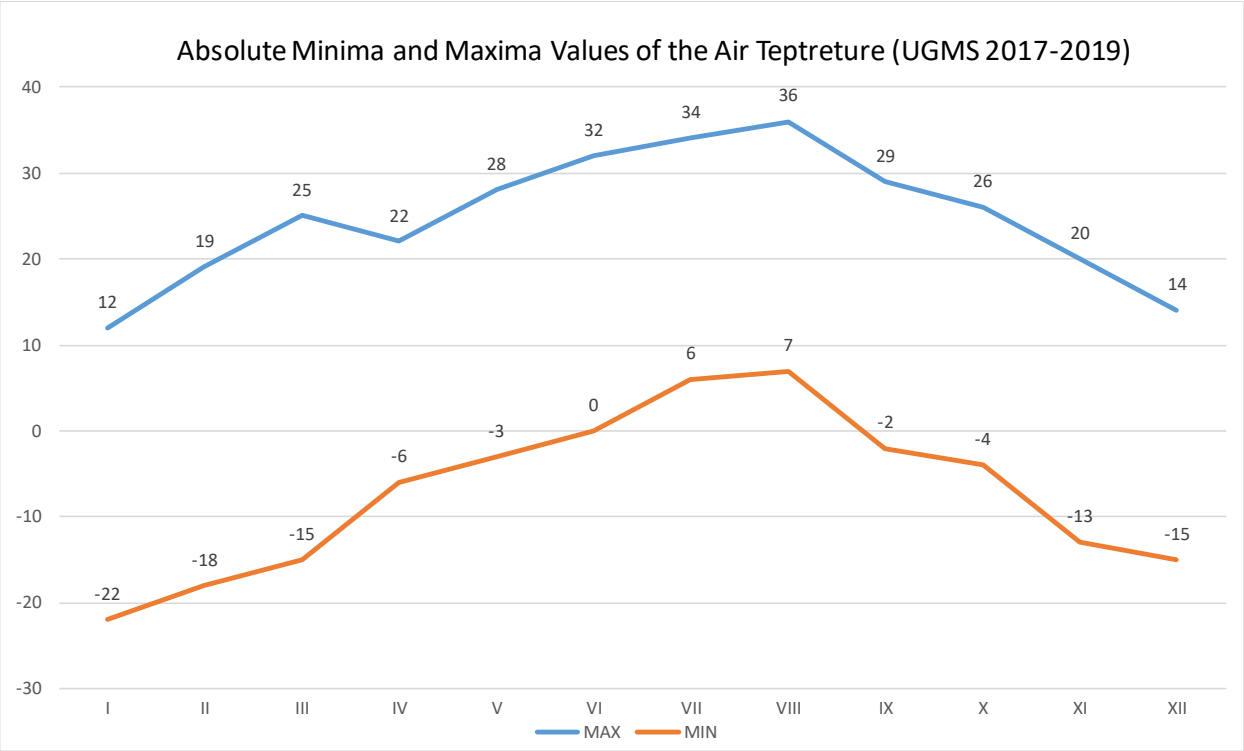
AERODROME: UGMS MONTHLY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 52560 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

Absolute Minimum and Maximum Values of the Air Temperature (UGMS 2017-2019)

| TEMP ($C^0$) | MONTH | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | I | II | III | IV | V | VI | VII | VIII | IX | X | XI | XII |
| MAX | 12 | 19 | 25 | 22 | 28 | 32 | 34 | 36 | 29 | 26 | 20 | 14 |
| MIN | -22 | -18 | -15 | -6 | -3 | 0 | 6 | 7 | -2 | -4 | -13 | -15 |



**AERONAUTICAL CLIMATOLOGY**

**AERODROME CLIMATOLOGICAL SUMMARY** **MODEL L**
**TABULAR FORM**

AERODROME: UGMS MONTHLY PERIOD OF RECORD: 2017-2019

TOTAL NUMBER OF OBSERVATIONS: 52560 OBSERVATION INTERVAL: 30 MIN.

LATITUDE: 430318N LONGITUDE: 0424501E ELEVATION ABOVE MSL: 4778 FT

MAXIMUM VALUE OF THE WIND GUST (UGMS 2017-2019)

| WIND GUST SPEED | MONTH | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | I | II | III | IV | V | VI | VII | VIII | IX | X | XI | XII |
| KT (KNOT) | 39 | 16 | 26 | 32 | 31 | 33 | 31 | 34 | 27 | 28 | 27 | 18 |
| M / S | 20 | 8 | 13 | 16 | 16 | 17 | 16 | 17 | 14 | 14 | 14 | 9 |

# BEAUFORT SCALE

| Beaufort number | Description | Wind speed |
|---|---|---|
| 0 | Calm | < 1 km/h |
| | | < 1 mph |
| | | < 1 knot |
| | | < 0.3 m/s |
| 1 | Light air | 1.1–5.5 km/h |
| | | 1–3 mph |
| | | 1–3 knot |
| | | 0.3–1.5 m/s |
| 2 | Light breeze | 5.6–11 km/h |
| | | 4–7 mph |
| | | 4–6 knot |
| | | 1.6–3.3 m/s |
| 3 | Gentle breeze | 12–19 km/h |
| | | 8–12 mph |
| | | 7–10 knot |
| | | 3.4–5.4 m/s |
| 4 | Moderate breeze | 20–28 km/h |
| | | 13–17 mph |
| | | 11–16 knot |
| | | 5.5–7.9 m/s |
| 5 | Fresh breeze | 29–38 km/h |
| | | 18–24 mph |
| | | 17–21 knot |
| | | 8.0–10.7 m/s |
| 6 | Strong breeze | 39–49 km/h |
| | | 25–30 mph |
| | | 22–27 knot |
| | | 10.8–13.8 m/s |

| Beaufort number | Description | Wind speed |
|---|---|---|
| 7 | Near gale | 50–61 km/h |
| | | 31–38 mph |
| | | 28–33 knot |
| | | 13.9–17.1 m/s |
| 8 | Gale | 62–74 km/h |
| | | 39–46 mph |
| | | 34–40 knot |
| | | 17.2–20.7 m/s |
| 9 | Strong gale | 75–88 km/h |
| | | 47–54 mph |
| | | 41–47 knot |
| | | 20.8–24.4 m/s |
| 10 | Storm | 89–102 km/h |
| | | 55–63 mph |
| | | 48–55 knot |
| | | 24.5–28.4 m/s |
| 11 | Violent storm | 103–117 km/h |
| | | 64–73 mph |
| | | 56–63 knot |
| | | 28.5–32.6 m/s |
| 12 | Hurricane | ≥ 118 km/h |
| | | ≥ 74 mph |
| | | ≥ 64 knot |
| | | ≥ 32.7 m/s |

# ABBREVIATIONS

### Aeronautical Abbreviations

| | |
|---|---|
| ICAO | International Civil Aviation Organization |
| METAR | Aviation Routine Weather Report |
| RWY | Runway |
| UTC | Universal Coordinated Time |

### Meteorological Abbreviations

| | | |
|---|---|---|
| CB | | Cumulonimbus |
| Cloud amount: | BKN | Broken (5-7 Octas) |
| | OVC | Overcast (8 Octas) |
| Hs | | height of lower layer of cloud |
| RVR | | Runway Visual Range |
| VIS | | Visibility |
| WMO | | World Meteorological Organization |
| Ta - $C^0$ | | Ambient temperature |
| Td - $C^0$ | | Dew point temperature |
| RH | | Relative Humidity |
| QNH | | Regional mean sea level atmospheric pressure |
| BR | | Mist (*Foggy conditions, when visibility is at least 1 000 m but not more than 5 000 m.*) |
| RA | | Rain |
| TS | | Thunderstorm |
| FOG | | Fog (*Foggy conditions,when visibility is less than 1 000 m.*) |
| MIFG | | Shallow fog, when the vertical extension of fog on a runway is less than 2 meters |
| VCFG | | Fog in the vicinity of the airport |
| FZFG | | freezing fog |
| DZ | | drizzle |
| SN | | Snow |
| HZ | | Haze |
| TSRA | | Thunderstorm with Rain |
| SHRA | | Shower Rain |
| MAPT | | Mist Approach Point |
| OCH | | Obstacle clearance height |
| TDZ | | Touch down Zone |

### Airports

UGTB - Tbilisi International Airport
UGKO - Kutaisi International Airport
UGSB - Batumi International Airport
UGMS - Mestia International Airport

### Units of Measurement

| | |
|---|---|
| ft | Feet |
| km | Kilometer |
| kt | Knot (nautical mile / hour) |
| m | Meter |
| °C | Degree Celsius |

### Other

| | |
|---|---|
| riv. | river |
| ISO | International Organization for Standardization |
| MIN | Minimum |

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