GEN 3.5 Meteorological services

1 Responsible service

The designated meteorological authority is Civil Aviation Agency.

Post:
Georgian Civil Aviation Agency
Beginning of I Kheivani Street
0114 Tbilisi
Georgia
Tel: +995 32 294 80 27
AFS: UGGUYMYX
Email: met@gcaa.ge

The meteorological services for civil aviation are provided by SAKAERONAVIGATSIA Ltd.

Post:
SAKAERONAVIGATSIA Ltd
Meteorological Service
TBILISI/Tbilisi Airport
0198 Tbilisi, Georgia
Tel: +995 32 274 43 10
Tel: +995 577 11 44 43
Fax: +995 32 274 43 10
AFS: UGTBYMYX
Email: metoffice.tbilisi@airnav.ge

The service is provided in accordance with the provisions contained in the following ICAO documents:

- ***Annex 3*** *— Meteorological Service for International Air Navigation.*
- ***Doc 7030*** *— Regional Supplementary Procedures*, EUR Region, Part 3 – Meteorology.

2 Area of responsibility

Area meteorological observation is provided for TBILISI FIR.

3 Meteorological observations and reports

Table GEN 3.5.3 Meteorological observations and reports

Name of station/ Location indicator	Type & frequency of observation / automatic observing equipment	Types of MET reports & Supplementary Information included	Observation System & Site(s)	Hours of operation	Climatological information
1	2	3	4	5	6
BATUMI **UGSB**	Half hourly routine Special obs/ Vaisala	METAR, SPECIAL, TREND, TAF	*1	H24	AVBL**
KUTAISI/ Kopitnari **UGKO**	Half hourly routine Special obs/ Telvent	METAR, SPECIAL, TREND, TAF	*1	H24	AVBL**
TBILISI/ Tbilisi **UGTB**	Half hourly routine Special obs/ Vaisala	METAR, SPECIAL, TREND, TAF, GAMET, SIGMET, AIRMET	*1	H24	AVBL**
MESTIA **UGMS**	Half hourly routine Special obs/ Telvent	METAR	*1	From HR05:00 - until HR13:00	AVBL**
AMBROLAURI **UGAM**	Half hourly routine Special obs/ Telvent	METAR	*1	From HR05:00 - until HR13:00	AVBL**

** Climatological Summary of Georgian Airports is available on the official website of Sakaeronavigatsia Ltd **www.airnav.ge** on MET-Office page, under Climatological Characteristics tab.

* 1 The main meteorological elements:

At BATUMI aerodrome:

- Cloud Base Sensor – RWY 12, near the landing markers;
- Wind Sensor – RWY 12 TDZ area;
- Visibility Sensor – RWY 12 TDZ area;
- Pressure Sensor – RWY 12 TDZ area;
- Temperature/Humidity Sensor – RWY 12 TDZ area;
- Thunderstorm Sensor – RWY 12 TDZ area;
- Rain Gage – RWY 12 TDZ area;
- Wind Sensor – RWY 12/30 Middle area;
- Visibility/Present Weather Sensor – RWY 12/30 Middle area;
- Wind Sensor – RWY 30 TDZ area.

Meteorological observations at the aerodrome and on the RWY are transmitted via AFTN during 24 hours.

At KUTAISI/Kopitnari aerodrome:

- Cloud Base Sensor – RWY 07 TDZ area;
- Wind Sensor – RWY 07 TDZ area;
- Visibility Sensor – RWY 07 TDZ area;
- Wind Sensor – RWY 07/25 Middle area;
- Visibility Sensor – RWY 07/25 Middle area;
- Pressure Sensor – RWY 07/25 Middle area;
- Present Weather Sensor – RWY 07/25 Middle area;
- Temperature/Humidity Sensor – RWY 07/25 Middle area;
- Thunderstorm Sensor – RWY 07/25 Middle area;
- Rain Gage – RWY 07/25 Middle area;
- Wind Sensor – RWY 25 TDZ area;
- Visibility Sensor – RWY 25 TDZ area;
- Cloud Base Sensor – RWY 25 TDZ area.

Meteorological observations at the aerodrome and on the RWY are transmitted via AFTN during 24 hours.

At TBILISI/Tbilisi aerodrome:

- Cloud Base Sensor – RWY 13R, at Middle Marker 13R;
- Wind Sensor – RWY 13R TDZ area;
- Visibility Sensor – RWY 13R TDZ area;
- Wind Sensor – RWY 13R/31L Middle area;
- Visibility Sensor – RWY 13R/31L Middle area;
- Present Weather Sensor – RWY 13R/31L Middle area;
- Wind Sensor – RWY 31L TDZ area;
- Visibility Sensor – RWY 31L TDZ area;
- Pressure Sensor – RWY 31L TDZ area;
- Temperature/Humidity Sensor – RWY 31L TDZ area;
- Thunderstorm Sensor – RWY 31L TDZ area;
- Rain Gage – RWY 31L TDZ area;
- Cloud Base Sensor – RWY 31L, at Middle Marker 31L.

Meteorological observations at the aerodrome and on the RWY are transmitted via AFTN during 24 hours.

At MESTIA aerodrome:

- Wind Sensor – RWY Middle area;
- Pressure Sensor – RWY Middle area;
- Temperature/Humidity Sensor – RWY Middle area;
- Rain Gage – RWY Middle area;
- Visibility – visual observation only;
- Cloud Base – visual observation only.

Meteorological observation at the aerodrome and on the RWY are transmitted via AFTN during 24 hours. Full METAR is available in daytime (from HR05:00 - until HR13:00), at night will be transmitted AUTOMETAR without the VISIBILITY, CLOUDS and WEATHER PHENOMENA groups.

At AMBROLAURI aerodrome:

- Wind Sensor – RWY Middle area;
- Pressure Sensor – RWY Middle area;

- Temperature/Humidity Sensor – RWY Middle area;
- Rain Gage – RWY Middle area;
- Visibility – visual observation only;
- Cloud Base – visual observation only.

Meteorological observation at the aerodrome and on the RWY are transmitted via AFTN during 24 hours. Full METAR is available in daytime (from HR05:00 - until HR13:00), at night will be transmitted AUTOMETAR without the VISIBILITY, CLOUDS and WEATHER PHENOMENA groups.

4 Types of services

Meteorological Service of SAKAERONAVIGATSIA Ltd provides the following types of service:

- Briefing;
- Consultations for aircraft crews;
- Flight meteorological documentation for different kinds of flights (completed according to the user's request);
- Landing/take-off meteorological service.

Details of meteorological briefing at the aerodromes are given in the individual aerodrome subsection AD 2.

SAKAERONAVIGATSIA Ltd provides meteorological service at the TBILISI/Tbilisi, KUTAISI/Kopitnari, BATUMI, MESTIA and AMBROLAURI aerodromes.

Meteorological Office	Telephone	E-mail
1	2	3
TBILISI	(+995 32) 274 43 10	sinoptik.tbilisi@airnav.ge
KUTAISI	(+995 32) 274 43 37 (+995 32) 274 44 77 (303)	meteo.kopitnari@airnav.ge
BATUMI	(+995 577) 11 44 92	meteo.batumi@airnav.ge
MESTIA	(+995 32) 274 43 29 (+995 32) 274 44 77 (173)	meteo.mestia@airnav.ge
AMBROLAURI	(+995 32) 274 43 08 (+995 32) 274 44 77 (701)	meteo.ambrolauri@airnav.ge

Meteorological Office at TBILISI/Tbilisi aerodrome provides consultations for crews in English. Flight meteorological documentation is provided for international and domestic flights. The documentation comprises Significant Weather Chart, Upper Wind and Upper Air Temperature Chart, latest available aerodrome forecasts for the destination and for the alternate aerodromes, latest current weather for the destination and for the alternate aerodromes, and such additional meteorological information as SIGMET and AIRMET. All WAFS products, VAACs and TCACs are available from SADIS receiving system and available from secured meteorological web-site https://www.aviationweather.gov/.

Meteorological Office at KUTAISI/Kopitnari aerodrome provides consultations for crews in Russian. Flight meteorological documentation is provided for international and domestic flights. The documentation comprises Significant Weather Chart, Upper Wind and Upper Air Temperature Chart, latest available aerodrome forecasts for the destination and for the alternate aerodromes, latest current weather for the destination and for the alternate aerodromes, and such additional meteorological information as SIGMET and AIRMET. All WAFS products, VAACs and TCACs are available from SADIS receiving system and available from secured meteorological web-site https://www.aviationweather.gov/.

Meteorological Office at BATUMI aerodrome provides consultations for crews in English. Flight meteorological documentation is provided for international and domestic flights. The documentation comprises Significant Weather Chart, Upper Wind and Upper Air Temperature Chart, latest available aerodrome forecasts for the destination and for the alternate aerodromes, latest current weather for the destination and for the alternate aerodromes, and such additional meteorological information as SIGMET and AIRMET. All WAFS products, VAACs and TCACs are available from SADIS receiving system and available from secured meteorological web-site https://www.aviationweather.gov/.

5 Notification required from operators

Notifications from operators in respect of briefing consultation, flight documentation and other meteorological information needed by them *(ref. ICAO Annex 3, 2.3)* is normally required for intercontinental flights of more than 3500 KM. Such notifications should be received at least 6 hours before the estimated time of departure.

6 Aircraft reports

Observations and aircraft reports are conducted in accordance with *ICAO Appendix I Doc 4444 RAC /501/12*.

7 VOLMET service

NIL.

8 SIGMET and AIRMET service

Table GEN 3.5.8 SIGMET service

Name of MWO/ location indicators	Hours	FIR or CTA served	Validity	Specific SIGMET procedures	AIRMET procedures	ATS unit served	Additional information
1	2	3	4	5	6	7	8
TBILISI UGTB	H24	TBILISI FIR	SIGMET/4 HR AIRMET/4 HR	SIGMET VA/TC: Validity 6 HR	Issued during daytime only	TBILISI TWR, APP, ACC, BATUMI TWR, APP KUTAISI TWR, APP	NIL

8.1 Area meteorological watch service

8.1.1 SIGMET

Information is issued in the form of SIGMET messages about occurrence or possible occurrence of one of several of the following significant meteorological phenomena:

a. thunderstorm:

- obscured;
- embedded;
- frequent;
- line squall;
- obscured with heavy hail;
- embedded with heavy hail;
- frequent with heavy hail;
- line squall with heavy hail.

b. turbulence:

- severe turbulence.

c. icing:

- severe icing;
- severe icing due to freezing rain.

SIGMETs are issued in English in abbreviated plain language and are numbered consecutively for each day commencing at 0001. Their period of validity is generally limited to less than 4 hours from the time of issuance.

8.1.2 AIRMET

AIRMET is prepared relating to the TBILISI FIR (one or more from 5 different areas: A1, A2, A3, A4, and A5. See chart AIRMET/GAMET AREAS which is available on the Sakaeronavigatsia Ltd official website **www.airnav.ge** on MET-OFFICE page) from surface up to FL150, concerning the occurrence and/or expected occurrence of specified weather phenomena as follows:

- strong surface wind and gusts above 30 KT;
- surface visibility to less than 5000 M on the widespread areas;
- thunderstorms: ISOL TS, OCNL TS, ISOL TSGR, OCNL TSGR;
- cloud:
  - widespread areas of broken or overcast cloud with height of base less than 1000 FT;
  - ISOL, OCNL or FRQ cumulonimbus (CB) or towering cumulus (TCU);
- moderate turbulence - MOD TURB;
- moderate icing - MOD ICE;
- moderate mountain wave - MOD MTW.

AIRMETs are issued in English in abbreviated plain language and are numbered consecutively for each day commencing at 0001. Their period of validity is generally limited to less than 4 hours from the time of issuance.

8.1.3 GAMET

GAMET area forecasts contain two sections: *Section I* related to information on en-route weather phenomena hazardous to low-level flights (below FL150), prepared in support of the issuance of AIRMET information, and *Section II* related to additional information required by low-level flights. The content and order of elements in a GAMET area forecast are in accordance with the template shown in Table A5-3 of ICAO Annex 3. Elements which are already covered by a SIGMET message are omitted from GAMET area forecast.

Section I

1. Surface wind speed - SFC WSPD group.

2. Horizontal surface visibility - SFC VIS group.

3. Significant weather phenomena - SIGWX group.

4. Mountain obscuration - MT OBSC group.

5. Cloud - SIG CLD group.

6. Icing - ICE group.

7. Turbulence - TURB group.

8. Mountain wave - MTW group.

9. SIGMET - SIGMET applicable.

10. AIRMET - AIRMET applicable.

The numbers of SIGMET messages applicable to the Tbilisi FIR, for which a GAMET forecast is valid.
The numbers of AIRMET messages applicable to the Tbilisi FIR, for which a GAMET forecast is valid.

Section II

11. Pressure centres and fronts - PSYS group.

12. Surface wind - SFC WIND group.

13. Upper winds and temperatures - WIND/T group. Mean values of wind direction and speed are provided.

14. Cloud - CLD group.

15. Freezing level - FZLVL group.

16. Sea surface temperature - SEA group.

All heights in forecasts are expressed as altitudes above mean sea level (AMSL) or in flight levels (FL).

The validity period of GAMET forecasts is 6 hours (from 06:00 till 12:00; from 12:00 till 18:00 UTC), these forecasts are prepared and published twice per day for the following areas: A1, A2, A3, A4, A5 (according to chart AIRMET/GAMET AREAS which is available on the Sakaeronavigatsia Ltd official web-site **www.airnav.ge** on MET-OFFICE page).

Amendments to GAMET

When a weather phenomenon hazardous to low-level flights has been included in the GAMET area forecast and the phenomenon forecast does not occur, or is no longer forecast, a GAMET AMD is issued, amending only the weather element concerned.

8.2 Aerodrome Warning service

Aerodrome warning is provided by all MET offices at the aerodromes. Warnings for the protection of parked and fastened aircraft or other equipment at the aerodrome will be issued by all MET offices, if one or several of the following phenomena are expected to occur at the local aerodrome:

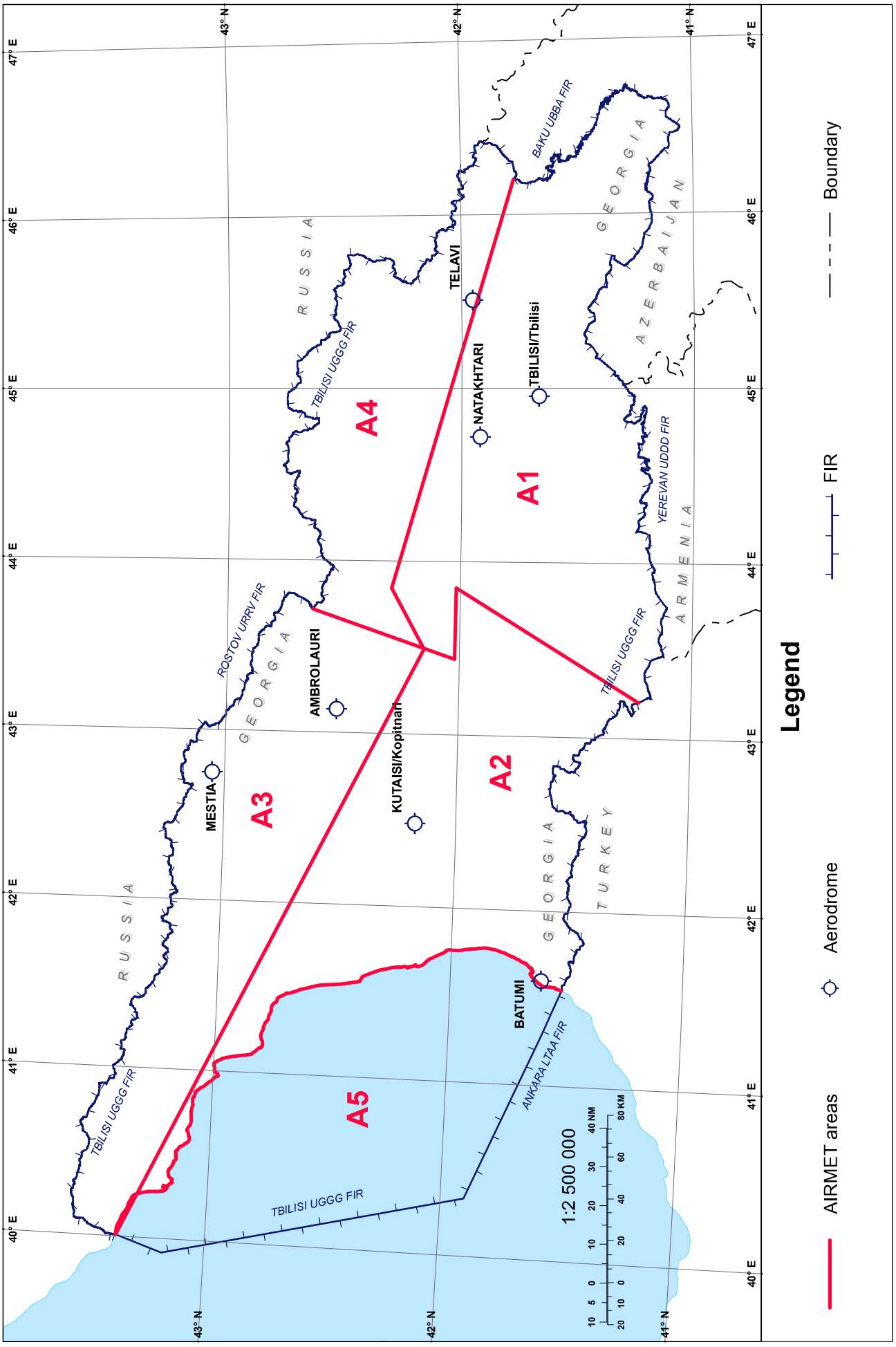
- tropical cyclone (to be included if the 10-minute mean surface wind speed at the aerodrome is expected to be 34 KT or more);
- ← thunderstorms;
- ← squall;
- freezing precipitation;
- ← hail;
- snow (including the expected or observed snow accumulation);
- rime;
- sandstorm;

- duststorm;
- rising sand or dust;
- strong surface wind and gust;
- frost;
- volcanic ash;
- volcanic ash deposition;
- toxic chemicals;
- other phenomena as agreed locally.

9 Other automated meteorological services

NIL.

AIRMET / GAMET AREAS



PAGE INTENTIONALLY LEFT BLANK