UGTB

UGTB AD 2.1 Aerodrome location indicator and name

UGTB - TBILISI/TBILISI

UGTB AD 2.2 Aerodrome geographical and administrative data

1	**ARP coordinates and site at AD**	414009N 0445717E RWY 13L/31R centre line
2	**Direction and distance from (city)**	17 KM SE from Tbilisi
3	**Elevation / Reference temperature**	1578 FT / 25°C
4	**Geoid undulation at AD ELEV PSN**	46 FT
5	**MAG VAR / Annual change**	7°E (2020) / NIL
6	**Aerodrome operator**	TAV URBAN GEORGIA LLC
	Address	TBILISI/Tbilisi Airport 0158 TBILISI GEORGIA
	Telephone	+995322310265, +995322310267, +995322310241
	Telefax	+995322310322, +995322310268
	AFS	AFTN: UGGGBFXX SITA: TBSGMXH
	E-mail	tbs.info@tav.aero, tbsramp.tower@tav.aero
	Website	NIL
7	**Type of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	APRON FREQ 131.700 MHZ

UGTB AD 2.3 Operational hours

1	**AD Operator**	H24
2	**Customs and immigration**	H24
3	**Health and sanitation**	H24
4	**AIS Briefing Office**	H24
5	**ATS Reporting Office (ARO)**	H24
6	**MET Briefing Office**	H24
7	**ATS**	H24
8	**Fuelling**	H24
9	**Handling**	H24
10	**Security**	H24
11	**De-icing**	H24
12	**Remarks**	NIL

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UGTB AD 2.4 Handling services and facilities

1	**Cargo-handling facilities**	All modern facilities handling weights up to 5 tons
2	**Fuel/oil types**	Fuel: LLC ATF Jet A-1, Kerosene TC-1/TS-1 LLC GEORGIAN AIRWAYS Kerosene TS-1 LLC GEORGIAN PETROLEUM Kerosene TS-1 LLC PETROCAS FUEL SERVICES GEORGIA Jet A-1, Kerosene TS-1 Oil: NIL
3	**Fuelling facilities / capacity**	LLC ATF Fuel Storage - 7000 m³; Refueling Trucks - 4 Trucks (45000 litres and 20000 litres); Max flow rate: 2750 litres/minute, 1320 litres/minute, 1150 litres/minute. Tel: (+995) 599144544 Email: info@atf.ge LLC GEORGIAN AIRWAYS Fuel Storage - 3200 m³; 2 Refueling Trucks (51000; 40000 litres), Max flow rate: 800 - 1000 litres/minute Tel: (+995 32) 248 55 98; (+995 577) 51 03 00; (+995 577) 93 93 95 Email: fuel@georgian-airways.com LLC GEORGIAN PETROLEUM Fuel Storage - 2800 m³; 3 Refueling Trucks (26500; 26500 and 21000 litres), Max flow rate: 800 - 1000 litres/minute Tel: (+995 32) 243 30 00; 243 30 03 Fax: (+995 32) 243 30 02 Email: info@airgp.ge LLC PETROCAS FUEL SERVICES GEORGIA Fuel Storage - 5500 m³; 3 Refueling Trucks (35000; 30000 and 19000 litres), Max flow rate: 1200 litres/minute; Hydrant System, Max flow rate: 2800 - 3000 litres/minute Tel: (+995 32) 214 02 17 Email: info@gulfaviation.ge
4	**De-icing facilities**	Yes
5	**Hangar space for visiting aircraft**	Can be requested from Airplane Technics LLC for Boeing 737 CL+NG, Airbus 318/319/320/321 and smaller aircraft
6	**Repair facilities for visiting aircraft**	Base and line maintenance for Boeing 737 300/400/500/600/700/800/900, Airbus 318/319/320/321 and line maintenance for helicopter Bell 505 is available on request at the hangar of Airplane Technics LLC
7	**Remarks**	NIL

UGTB AD 2.5 Passenger facilities

1	**Hotels**	Available in the city
2	**Restaurants**	Restaurant, cafe at AD and in the city
3	**Transportation**	Buses, taxis from the AD

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4	**Medical Facilities**	First medical aid at AD, hospitals in the city
5	**Bank and Post Office**	Banks at AD and in the city Post Office: H24 Exchange Office: H24
6	**Tourist Office**	Available in the city
7	**Remarks**	NIL

UGTB AD 2.6 Rescue and fire fighting services

1	**AD category for fire fighting**	CAT 9
2	**Rescue equipment**	4 Fire fighting trucks, 1 Quick response vehicle, 1 Water tanker truck 20 t
3	**Capability for removal of disabled aircraft**	Capable to remove disabled aircraft with code C
4	**Remarks**	Responsible coordinator for removal of disabled aircraft: Tel: +995 577 999 124 Fax: +995 32 231 02 76 E-mail: tbs.ramp.tower@tav.aero

UGTB AD 2.7 Seasonal availability - clearing

1	**Types of clearing equipment**	4 Snow Ploughs MOAZ-549 DE-224,1 Snow Plough MAZ-5434X3 BS4000-PBA-2R,1 Snow Plough Mercedes-Benz Arocs RSC-250 with blower unit, 1 Auger Wheel Scraper URAL DE-226, 1 Anti/De-ice Chemical Sprinkler/Spreader IVECO X-Way 360, 1 JCB, 1 Dump truck KAMAZ, 1 Tractor T-40, 1 Tractor Belarus MTZ892
2	**Clearance priorities**	1. RWY 13R/31L and the access roads to the airport Rescue Service 2. Acting TWYs and taxiing paths on the apron 3. Aircraft parking stands and vehicles paths on the aprons 4. Runway and taxiways shoulders 5. The remaining sections (areas)
3	**Remarks**	Information on snow clearance published from November – April in NOTAM/ SNOWTAM. See also the snow plan in AD 1.2-2

UGTB AD 2.8 Aprons, taxiways and check locations/positions data

1	**Apron designation, surface and strength of aprons**	APRON 1 : Concrete and asphalt, PCN 53/R/B/W/U APRON 1 Aircraft stands 112, 113, 114, 115, 116: Concrete - PCN 62/R/A/W/T APRON 1 Aircraft stands 117, 118, 119, 120, 121, 122: Asphalt - PCN 127/F/C/X/T APRON 3: Concrete and asphalt, PCN 12/F/B/X/T APRON 4: Concrete, PCN 72/R/A/W/T

2	**Taxiway designation, width, surface and strength**	TWY A: 18 M, Concrete and asphalt, PCN 59/R/B/W/U TWY B: 23 M, Concrete and asphalt, PCN 65/R/B/W/U TWY C: 23 M, Concrete and asphalt, PCN 65/R/B/W/U TWY D: 16 M, Concrete, PCN 16/R/C/X/T TWY E: 23 M, Concrete, PCN 65/R/A/W/U TWY F: 18 M, Concrete and asphalt, PCN 12/F/B/X/T TWY G section 353.4 M long from RWY 13R towards TWY B: 23 M, Concrete and asphalt, PCN 114/F/C/X/T TWY G section towards RWY 13L: 23 M, Concrete and asphalt, PCN 65/R/A/X/T
3	**Altimeter checkpoint location and elevation**	THR RWY 13R Elevation 1578 FT THR RWY 31L Elevation 1513 FT Apron 4 - Elevation: 1560 FT
4	**VOR checkpoints**	NIL
5	**INS checkpoints**	INS: See Aircraft Parking and Ground Movement Chart
6	**Remarks**	Aircraft stand 33 - Asphalt- PCN 12/F/B/X/T TWY F is closed

UGTB AD 2.9 Surface movement guidance and control system and markings

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	Sign boards at all intersections with TWY and RWY and at all holding positions. Guide lines at aprons
2	**RWY and TWY markings and LGT**	RWY Marking: Designation, THR, TDZ, centre line, edge line, RWY end RWY Lighting: THR, TDZ (only 31L), centre line, edge line, RWY end TWY Marking: Holding points, centre line, edge line TWY Lighting: Centre line and edge (A, B, C, E, G), RWY guard lights (A, B, E, G)
3	**Stop bars and RWY guard lights**	NIL
4	**Other RWY protection measures**	NIL
5	**Remarks**	NIL

UGTB AD 2.10 Aerodrome obstacles

1 Obstacles in Area 2

Designator	Type	Coordinates	ELEV/HGT	Markings / LGT type, colour	Remarks
1	**2**	**3**	**4**	**5**	**6**
UGTB01	Building	413933.1N 0445739.9E	1591/- FT	NIL	NIL
UGTB02	Building	414036.6N 0445618.9E	1614/- FT	NIL	NIL
UGTB03	Building	413906.8N 0445024.3E	2714/- FT	NIL	Church Shavnabada
UGTB04	Antenna	414533.8N 0445459.4E	3584/- FT	LGTD	Mast SSR
UGTB05	Antenna	413959.9N 0445656.2E	1716/- FT	LGTD	Mast ACR
UGTB06	Antenna	414602.6N 0445503.9E	3667/- FT	LGTD	Mast MSSR
UGTB07	Building	414126.8N 0445639.4E	1791/- FT	NIL	NIL
UGTB08	Building	414120.6N 0445755.5E	1834/- FT	NIL	NIL

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Designator	Type	Coordinates	ELEV/HGT	Markings / LGT type, colour	Remarks
1	2	3	4	5	6
UGTB09	Monument	414130.3N 0445709.9E	2044/- FT	NIL	NIL
UGTB10	Navaid	414013.7N 0445648.8E	1627/- FT	LGTD	Antenna DVOR/DME
UGTB11	Navaid	413933.1N 0445741.3E	1557/- FT	LGTD	Antenna GP 31L
UGTB12	Navaid	414030.4N 0445629.6E	1611/- FT	LGTD	Antenna GP 13R
UGTB13	Antenna	414144.8N 0444707.4E	3304/- FT	LGTD	Hill Mta Tsminda (antenna TV)
UGTB14	Antenna	413253.7N 0445714.0E	2550/- FT	NIL	Hill (mast)
UGTB42	Building	414116.0N 0445725.7E	1762/- FT	LGTD	NIL
UGTB43	Building	414008.2N 0445650.2E	1584/- FT	MARKED / LGTD	NIL
UGTB44	Navaid	414246.3N 0445344.5E	1942/- FT	MARKED / LGTD	Antenna L 13R
UGTB45	Building	414202.5N 0445446.3E	1876/- FT	NIL	NIL
UGTB46	Building	414200.9N 0445446.3E	1876/- FT	NIL	NIL
UGTB47	Building	414159.3N 0445446.3E	1876/- FT	NIL	NIL

2 Obstacles in Area 3

Designator	Type	Coordinates	ELEV/HGT	Markings / LGT type, colour	Remarks
1	2	3	4	5	6
UGTB15	Building	414029.9N 0445725.7E	1666.0/- FT	LGTD	NIL
UGTB16	Building	414026.7N 0445730.2E	1697.5/- FT	LGTD	NIL
UGTB17	Pole	414028.5N 0445725.7E	1670.6/- FT	LGTD	Light mast
UGTB18	Pole	414023.7N 0445732.7E	1660.8/- FT	LGTD	Light mast
UGTB19	Pole	414022.4N 0445734.4E	1642.4/- FT	LGTD	Light mast
UGTB20	Pole	414019.1N 0445739.2E	1645.0/- FT	LGTD	Light mast
UGTB21	Pole	414006.6N 0445754.8E	1608.6/- FT	LGTD	Light mast
UGTB22	Pole	414002.7N 0445755.1E	1602.4/- FT	LGTD	Light mast
UGTB23	Pole	413959.1N 0445747.2E	1623.7/- FT	LGTD	Light mast
UGTB24	Pole	413959.9N 0445746.2E	1598.4/- FT	LGTD	Light mast
UGTB25	Pole	414001.0N 0445744.8E	1599.4/- FT	LGTD	Light mast
UGTB26	Pole	414002.0N 0445743.2E	1625.6/- FT	LGTD	Light mast
UGTB27	Pole	414003.1N 0445741.8E	1600.7/- FT	LGTD	Light mast

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Designator	Type	Coordinates	ELEV/HGT	Markings / LGT type, colour	Remarks
1	2	3	4	5	6
UGTB28	Pole	414004.1N 0445740.3E	1601.7/- FT	LGTD	Light mast
UGTB29	Pole	414004.7N 0445739.4E	1628.3/- FT	LGTD	Light mast
UGTB30	Pole	414015.9N 0445738.7E	1641.1/- FT	LGTD	Light mast
UGTB31	Pole	414014.9N 0445740.2E	1641.4/- FT	LGTD	Light mast
UGTB32	Pole	414013.9N 0445741.6E	1641.4/- FT	LGTD	Light mast
UGTB33	Pole	414012.9N 0445743.1E	1641.4/- FT	LGTD	Light mast
UGTB34	Pole	414011.8N 0445744.5E	1641.1/- FT	LGTD	Light mast
UGTB35	Pole	414005.8N 0445737.6E	1632.2/- FT	LGTD	Light mast
UGTB36	Pole	414006.9N 0445736.1E	1632.2/- FT	LGTD	Light mast
UGTB37	Pole	414007.9N 0445734.8E	1632.2/- FT	LGTD	Light mast
UGTB38	Pole	414008.8N 0445733.5E	1632.2/- FT	LGTD	Light mast
UGTB39	Pole	414009.7N 0445732.1E	1632.2/- FT	LGTD	Light mast
UGTB40	Pole	414010.7N 0445730.8E	1632.2/- FT	LGTD	Light mast
UGTB41	Building	414033.2N 0445717.4E	1692.9/- FT	LGTD	NIL

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UGTB AD 2.11 Meteorological information provided

1	**Associated MET Office**	TBILISI
2	**Hours of service**	H24
	MET Office outside hours	-
3	**Office responsible for TAF preparation**	TBILISI
	Periods of validity	24 HR
4	**Trend forecast**	TREND
	Interval of issuance	0.5 HR
5	**Briefing/consultation provided**	MET staff consultation
6	**Flight documentation**	Charts, tabular form, abbreviated plain language text
	Language(s) used	English
7	**Charts and other information available for briefing or consultation**	S, U85, U70, U50, U30, U20, P85, P70, P50, P40, P30, P20, SWH, SWM, T
8	**Supplementary equipment available for providing information**	SADIS
9	**ATS units provided with information**	Tbilisi TWR, APP, ACC, FIS
10	**Additional information (limitation of service, etc.)**	NIL

UGTB AD 2.12 Runway physical characteristics

RWY Designations	TRUE BRG	Dimensions of RWY (M)	Strength (PCR) and surface of RWY and SWY	THR coordinates, RWY end coordinates, THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
13L	133.51°	NIL	-/-/-/-/- NIL	THR: NIL END: NIL GUND: NIL	THR: NIL
31R	313.52°			THR: NIL END: NIL GUND: NIL	THR: NIL
13R	136.54°	3000 x 45	66/R/A/W/T Concrete and asphalt	THR: 414040.13N 0445624.39E END: 413929.53N 0445753.59E GUND: 45.8 FT	THR: 1577.8 FT TDZ: NIL
31L	316.56°			THR: 413929.53N 0445753.59E END: 414040.13N 0445624.39E GUND: 45.5 FT	THR: 1512.7 FT TDZ: 1527.1 FT

RWY Designations	Slope of RWY - SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M)
1	7	8	9	10	11
13L	NIL	NIL	NIL	NIL	NIL
31R	NIL	NIL	NIL		NIL
13R	-0.70%	NIL	NIL	3120 x 300	90 x 90
31L	0.70%	NIL	200 x 150		160 x 100

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RWY Designations	Location and Description of Arresting System	OFZ	Remarks
1	12	13	14
13L	NIL	NIL	RWY is closed for landings and take-offs
31R	NIL	NIL	RWY is closed for landings and take-offs
13R	NIL	NIL	RWY shoulders width 7.5 M
31L	NIL	Yes	RWY shoulders width 7.5 M

UGTB AD 2.13 Declared distances

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
13L	NIL	NIL	NIL	NIL	NIL
31R	NIL	NIL	NIL	NIL	NIL
13R	3000	3000	3000	3000	NIL
	2500	2500	2500	NIL	FROM TWY B
	1600	1600	1600	NIL	FROM TWY A
31L	3000	3200	3000	3000	NIL
	1400	1600	1400	NIL	FROM TWY A

UGTB AD 2.14 Approach and runway lighting

RWY Designator	APCH LGT type, LEN, INTST	THR LGT, colour, WBAR	VASIS (MEHT) PAPI	TDZ LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST
1	2	3	4	5	6
13L	NIL	NIL	NIL	NIL	NIL
31R	NIL	NIL	NIL	NIL	NIL
13R	ALSF-1 900 M LIH	GREEN	PAPI Left/3.5° (60 FT)	NIL	3000 M 15 M White FM 2100 M - 2700 M W/R FM 2700 M Red LIH
31L	PALSF-II 870 M LIH	GREEN	PAPI Both/3.0° (51 FT)	900 M	3000 M 15 M White FM 2100 M - 2700 M W/R FM 2700 M Red LIH

RWY Designator	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour, WBAR	SWY LGT LEN, colour	Remarks
1	7	8	9	10
13L	NIL	NIL	NIL	NIL
31R	NIL	NIL	NIL	NIL
13R	3000 M 60 M White FM 2400 M Yellow LIH	RED	NIL	Flashing LGT 900 M available

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RWY Designator	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour, WBAR	SWY LGT LEN, colour	Remarks
1	7	8	9	10
31L	3000 M 60 M White FM 2400 M Yellow LIH	RED	NIL	Flashing LGT 570 M available

UGTB AD 2.15 Other lighting and secondary power supply

1	**ABN/IBN location, characteristics and hours of operation**	ABN: At Tower building, rotating light beacon, RPM 12, code W/G, SS-SR IBN: NIL
2	**LDI location and LGT** **Anemometer location and LGT**	NIL Anemometer: 425 M from THR 31L; 314 M from THR 13R; lighted
3	**TWY edge and centre line lighting**	CL: TWY A, B, C, E, G Edge: TWY A, B, C, E, G
4	**Secondary power supply/switch-over time**	Secondary power supply to all lighting at AD. Switch-over time: 1 SEC.
5	**Remarks**	RWY 31L/13R Guard LGT at TWY A, B, E, G

UGTB AD 2.16 Helicopter landing area

1	**Coordinates TLOF or THR of FATO** **Geoid undulation**	NIL
2	**TLOF and/or FATO elevation M/FT**	NIL
3	**TLOF and FATO area dimensions, surface, strength, marking**	NIL
4	**True BRG of FATO**	NIL
5	**Declared distance available**	NIL
6	**APP and FATO lighting**	NIL
7	**Remarks**	NIL

UGTB AD 2.17 Air traffic services airspace

1	**Designation and lateral limits**	TBILISI CTR 414513N 0444409E - 415002N 0445056E - 414559N 0450149E - 414109N 0450755E - 413249N 0451242E - 412801N 0450555E - 413000N 0445740E - 413651N 0444901E - 414513N 0444409E
2	**Vertical limits**	GND to 4500 FT AMSL
3	**Airspace classification**	C
4	**ATS unit call sign** **Language(s)**	TBILISI TOWER EN
5	**Transition altitude**	11000 FT AMSL
6	**Hours of applicability**	H24
7	**Remarks**	NIL

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UGTB AD 2.18 Air traffic services communication facilities

Service designation	Call sign	Channel(s)	SATVOICE number(s)	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
APP	TBILISI APPROACH	134.600 MHz	NIL	NIL	H24	NIL
		121.500 MHz	NIL	NIL		Emergency
TWR	TBILISI TOWER	119.000 MHz	NIL	NIL	H24	Primary
		128.000 MHz	NIL	NIL		Secondary
ATIS	TBILISI ATIS	132.800 MHz	NIL	NIL	H24	NIL
FIS	TBILISI INFORMATION	124.150 MHz	NIL	NIL	H24	NIL
		121.500 MHz	NIL	NIL		Emergency

UGTB AD 2.19 Radio navigation and landing aids

Type of aids, MAG VAR, Type of supported OPS for ILS/MLS/GLS, basic GNSS and SBAS, Classification for ILS, Facility Classification and approach facility designation(s) for GBAS, VOR/ILS/MLS station declination	ID	Frequency, Channel number, Service provider	Hours of operation	Position of transmitting antenna coordinates	ELEV of DME transmitting antenna, GBAS reference point ELEV and ellipsoid HGT, SBAS LTP/FTP ellipsoid HGT	Service volume radius from the GBAS reference point	Remarks
1	2	3	4	5	6	7	8
NDB (7°E 2020)	DF	520 KHZ	H24	415500.0N 0443356.0E	Not applicable	NIL	NIL
DVOR/DME (7°E 2020)	TBS	113.700 MHZ CH 84X	H24	414013.7N 0445648.8E	1700 FT	NIL	Coverage 108 NM.

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Type of aids, MAG VAR, Type of supported OPS for ILS/MLS/GLS, basic GNSS and SBAS, Classification for ILS, Facility Classification and approach facility designation(s) for GBAS, VOR/ILS/MLS station declination	ID	Frequency, Channel number, Service provider	Hours of operation	Position of transmitting antenna coordinates	ELEV of DME transmitting antenna, GBAS reference point ELEV and ellipsoid HGT, SBAS LTP/FTP ellipsoid HGT	Service volume radius from the GBAS reference point	Remarks
1	2	3	4	5	6	7	8
ILS RWY 13R (7°E 2020) CLASS NIL/NIL/NIL							
LOC 13R	IVP	110.300 MHZ	H24	413926.3N 0445757.7E	Not applicable	NIL	NIL
GP 13R	—	335.000 MHZ	H24	414030.4N 0445629.6E	Not applicable	NIL	3.5° GP, 50 FT Co-located with DME 13R
DME 13R	IVP	CH 40X	H24	414030.4N 0445629.6E	1600 FT	NIL	Coverage 25 NM. Omnidirectional. Co-located with GP 13R
OM 13R	Dashes	75.000 MHZ	H24	414247.0N 0445344.2E	Not applicable	NIL	NIL
MM 13R	Dot-Dashes	75.000 MHZ	H24	414058.4N 0445601.3E	Not applicable	NIL	NIL
ILS RWY 31L CAT I (7°E 2020) CLASS I/NIL/NIL							
LOC 31L	INA	108.900 MHZ	H24	414045.4N 0445617.7E	Not applicable	NIL	NIL
GP 31L	—	329.300 MHZ	H24	413933.1N 0445741.3E	Not applicable	NIL	3.0° GP, 54 FT Co-located with DME 31L
DME 31L	INA	CH 26X	H24	413933.2N 0445741.2E	1600 FT	NIL	Coverage 25 NM. Omnidirectional. Co-located with GP31L
OM 31L	Dashes	75.000 MHZ	H24	413757.7N 0445949.5E	Not applicable	NIL	NIL
MM 31L	Dot-Dashes	75.000 MHZ	H24	413902.0N 0445828.4E	Not applicable	NIL	NIL

UGTB AD 2.20 Local aerodrome regulations

1 Airport regulations

At TBILISI/Tbilisi airport a number of local regulations apply.

At Aircraft stands aircraft major repairs (base maintenance) are prohibited.

Due to transverse slop greater than 1% complete fuelling of aircraft are restricted at the following stands: 1, 2, 3, 4, 5, 5C, 6, 7, 7C, 8, 9, 9D, 10, 10D, 11, 12, 13, 14, 15, 15C, 16, 16B, 17, 18, 19, 20, 21, 22, 23, 24, 25, 25D.

Other regulations are collected in the manual which is available at the AIS Briefing Office.

2 Taxiing to and from stands

Arriving aircraft will be allocated a stand number by the TWR.

Ground services can be requested from TBILISI APRON on FREQ 131.700 MHZ.

Assistance from the "FOLLOW ME" vehicle can be:

– requested via the TWR;
– available when visibility is less then 400 M;
– available during night time for C, D and E categories aircraft.

Isolated aircraft stand is located on the TWY E and has the following coordinates: 413947.65N 0445747.13E .

Aircraft engine testing area is located on the TWY E and has the following coordinates: 413947.65N 0445747.13E. Movement to be performed by towing only.

For apron 4 assistance from the "FOLLOW ME" vehicle is required for all categories aircraft.

Departing IFR and VFR flights shall contact TWR to obtain ATC clearance before commencing taxiing. Request for ATC clearance may take place at earliest 10 minutes prior to engine start–up.

After pre–flight preparation, decision to take–off and receiving of ATC clearance for the flight, the pilot–in–command of an aircraft makes a decision whether or not to take off from the aerodrome, fly along the airway and land at the destination aerodrome, and is entirely responsible for the decision taken.

Engine start–up and taxiing shall be carried out by the pilot–in–command only after clearance from the appropriate ATC unit. Taxiing on the aerodrome maneuvering area shall be conducted in accordance with taxi procedures or as directed by the ATC unit. The pilot–in–command is responsible for meeting the norms established for taxiing with this type of aircraft.

While taxiing, the pilot–in–command shall be observing the area in front of him and take measures to avoid collisions with aircraft, motor vehicles and other obstacles. The pilot-in-command may not enter or cross any runway without clearance from the appropriate tower controller.

Taxiing from the holding position to the line–up and take–off shall be performed only after clearance from the tower controller.

The pilot–in–command shall take off within one minute after receiving the clearance from the ATC unit. If a take-off has not been carried out within the above mentioned time interval, the pilot–in–command shall request a new clearance.

TWY B, Apron TWY C and TWY E are used for maneuvering of any type of aircraft.

Aircraft are allowed to make 180 degree turn at the intersection place of RWY 13L/31R and TWY E with coordinates 413947.65N 0445747.13E.

On RWY 13R/31L only aircraft with code "C" or lower are allowed to make 180 degrees turn.

3 Apron during winter conditions

The aircraft parking stands 100- 111; 112-122 are allocated for de-icing treatment of aircraft.

4 Regulations for helicopters

Take-off and landing for all types of helicopters are allowed only from/to RWY 13R/31L.

Entrance/exit to/from parking stands 26, 27, 28, and 29 shall be conducted through towing.

Parking stand 33 is allocated for helicopters with the largest overall dimension (D) not exceeding 15.72 M.

Taxiing to/from stand 33 is prohibited during nighttime and/or runway visual range less than 400 M.

After entering stand 33 helicopter shall perform 180 degrees turn in a hover due to park in a correct position.

5 Taxiing – limitations

Taxiing from aircraft stands 1, 8 is performed by towing only except for aircraft not exceeding the type B code.

Taxiing from aircraft stands 5C, 7C is allowed at a low thrust.

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TWY A is used for manoeuvering aircraft with code C or less.

The washing area for aircraft is located on the Aircraft Parking stands 105- 111; 117-122.

Only at apron taxiway C max taxi speed is 15 kt.

6 Removal of disabled aircraft from runway

When an aircraft is wrecked on a runway, it is the duty of the owner or user of such aircraft to have it removed as soon as possible. If a wrecked aircraft is not removed from the runway as quickly as possible by the owner or user, the aircraft will be removed by the aerodrome authority at the owner's or user's expense.

UGTB AD 2.21 Noise abatement procedures

Noise abatement procedures are published on the Standard Instrument Departure (SID) charts.

UGTB AD 2.22 Flight procedures

1 Procedures for IFR flights within Tbilisi TMA

1.1 General

ATS surveillance service within Tbilisi TMA is provided by Tbilisi approach unit (call sign "Tbilisi approach") on frequency 134.6 MHZ (or 127.2 MHZ).

Horizontal separation minimum applicable within Tbilisi TMA is 5 NM.

Tbilisi ATIS information is available on frequency 132.8 MHZ.

1.2 Procedures for arrival flights

Arrival flight capable of RNAV1 (GNSS) will normally be cleared to follow appropriate RNAV STAR or will be given direct routings to the waypoints designated as initial approach fix or intermediate fix of the ILS z (or LOC z) instrument approach procedures. Loss of RNAV1 (GNSS) capability shall be immediately reported to ATC and vectoring for final approach should be expected.

Arrival flights not capable of RNAV1 (GNSS) will normally be vectored for final approach. Alternatively, direct routing to TBS (IAF) may be given, followed by ILS y (or LOC y or VOR) instrument approach procedures. If a flight not capable of RNAV1 (GNSS) receives clearance to follow RNAV STAR or to proceed direct to a waypoint associated with ILS z (or LOC z) instrument approach procedures, the clearance shall be rejected and the reason stated: “UNABLE RNAV1 (GNSS)”.

Published speed restrictions on STARs and instrument approach procedures shall always be complied with. Controllers are not allowed to cancel published speed restrictions.

1.3 Procedures for departing flights

Departing flights capable of RNAV1 (GNSS) will normally be cleared to follow appropriate RNAV SID or conventional SID in accordance with the filed flight plan. Loss of RNAV1 (GNSS) capability shall be reported to ATC as soon as possible.

If a flight not capable of RNAV1 (GNSS) receives clearance to follow RNAV SID, the clearance shall be rejected and the reason stated: “UNABLE RNAV1 (GNSS)”.

When cleared level requires an ACFT to level-off on SID, ATC Surveillance Minimum Altitudes will be respected by controller.

As an alternative to any SID, controller may instruct to “CONTINUE RUNWAY HEADING” or “CLIMB STRAIGHT AHEAD”. In such cases climb gradient of 5.4 % or greater shall be maintained up to 7000 FT for departures from RWY 31L. Climb gradient of 3.9 % or greater shall be maintained up to 4500 FT for departure from RWY 13R.

Visual departures are not implemented.

1.4 FPL route options for arrivals and departures

Arrivals to UGTB:

STAR First Point	Available Routings	Remarks

GIMUR *	...IDLER DCT GIMUR	-
	...BANUT DCT GIMUR	FRA (I) points may also be used between BANUT and GIMUR
	...GUSLI DCT GIMUR	FRA (I) points may also be used between GUSLI and GIMUR
	...VIZRO DCT GIMUR	Only available for departures from local airport
	...FIBBE DCT GIMUR	Only available for departures from local airport
	...BT DCT GIMUR	Any FRA DCT is available before BT when cruising level is below FL150
LAGAS *	...ROLIN DCT LAGAS	-
	...SARPI DCT ODILI DCT TETRO DCT LAGAS	-
	...NOLGA DCT LAGAS	-
LAMUS *	...KUFAN DCT LAMUS	-
	...ADEKI DCT LAMUS	-
TISOT	As available via Yerevan FIR	-
Direct ARR Point	**Available Routings**	**Remarks**
TAVRO	As available via Yerevan FIR	Only available for traffic via REBLO
TBS *	...H5 TBS	Only available for departures from local airports
** G, M and X types of flight are not restricted by the routing options described in the table.*		

Note: Cleared levels assigned by ATC during descent on DCT segments will be based on relevant ATC Surveillance Minimum Altitude Charts.

Departures from UGTB:

SID Last Point	Available Routings	Remarks
DF *	DF DCT BARUS DCT BANUT...	FRA (I) point KADZE may be used between BARUS and BANUT to avoid UGP 230 when cruising level is below FL290
	DF DCT BARUS DCT ROLIN...	-
	DF DCT BARUS DCT ODILI DCT SARPI...	-
	DF DCT BT...	Any FRA DCT is available from BT when cruising level is below FL160
	DF H5...	Only available for arrivals to local airports
DISKA	As available via Baku FIR	-
KUFAN	As available via Rostov FIR	-
LAPTO	As available via Rostov FIR	-
PALLE *	PALLE DCT BARUS DCT BANUT...	FRA (I) point KADZE may be used between BARUS and BANUT to avoid UGP 230 when cruising level is below FL290
	PALLE DCT BARUS DCT ROLIN...	-
	PALLE DCT BARUS DCT ODILI DCT SARPI...	-
	PALLE DCT TETRO DCT ODILI...	Only available for arrivals to UGSB
	PALLE DCT NOLGA...	-
TAVRO	As available via Yerevan FIR	-
ZAGOT *	ZAGOT DCT BARUS DCT BANUT...	FRA (I) point KADZE may be used between BARUS and BANUT to avoid UGP 230 when cruising level is below FL290
	ZAGOT DCT BARUS DCT ROLIN...	-
	ZAGOT DCT BARUS DCT ODILI DCT SARPI...	-
	ZAGOT DCT TETRO DCT ODILI...	Only available for arrivals to UGSB
	ZAGOT DCT NOLGA...	-
Direct DEP Point	**Available Routings**	**Remarks**
TBS	TBS...	Only available for arrivals to UGTB

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** G, M and X types of flight are not restricted by the routing options described in the table.*

2 Procedures for VFR flights within Tbilisi TMA

Two-way radio communication shall be maintained with the Tbilisi Approach on the FRQ 134.600 MHZ (or 127.2).

Transfer of VFR flights between Tbilisi APP and Tbilisi TWR is conducted over established entry/exit points of CTR as shown in the Visual Approach Chart AD2.UGTB-VAC unless otherwise instructed by APP or TWR unit.

3 Procedures for VFR flights within Tbilisi CTR

Aircraft shall establish two-way radio communication with Tbilisi tower before conducting flights in Tbilisi CTR.

VFR flights intending to enter Tbilisi CTR from uncontrolled airspace shall establish communication with Tbilisi tower at least 5 minutes before entry to obtain clearance.

VFR flights within Tbilisi CTR shall be conducted at or below 3500 FT AMSL unless otherwise cleared by the TWR unit.

VFR flights shall be conducted with visual reference to the ground.

VFR flights shall enter/exit Tbilisi CTR via the entry/exit points shown on the Visual Approach Chart AD 2.UGTB-VAC, unless otherwise instructed by APP or TWR unit.

Aircraft entering/exiting Tbilisi CTR via points RINGI and URBAN must be at altitude 3500 FT or below.

Aircraft entering/exiting Tbilisi CTR via point GIGOS must be at altitude 3000 FT or below.

Aircraft entering/exiting Tbilisi CTR via point CHIVA must be at altitude 3500 FT or below, unless the aircraft is cleared for CHIVA–R–J route, in which case the altitude over CHIVA must be 2700 FT AMSL or below. The arrival and departure route CHIVA–R–J is established as depicted on the Visual Approach Chart with altitude constraints as follows: CHIVA–R max. 2700 FT AMSL, R–J max. 3700 FT AMSL. The CHIVA–R–J route is only used during daytime and in VMC conditions.

If the traffic situation requires it or the active runway is blocked, aircraft conducting VFR flights may be directed to the visual holding areas established at points N, S and GIGOS.

All VFR reporting points of Tbilisi CTR are described in the following table:

Name	Geographical coordinates	Visual reference
CHIVA	414923N 0445001E	Over the motorway bridge on the Tbilisi bypass road; north-west of Gldani Didi Lake
GIGOS	412801N 0450555E	North of Gardabani town
RINGI	413515N 0445103E	Over Lake Kumisi
URBAN	414408N 0450408E	Over the mining field; east of Saakadze settlement
R (ROMEO)	414820N 0445225E	Over the semicircular segment of the Tbilisi bypass road; 1.5 NM east of Gldani Didi Lake
J (JULIET)	414506N 0450032E	Over the junction of the Lochini and Norioskhevi rivers
N (NOVEMBER)	414205N 0450004E	North of the Lilo marketplace
S (SIERRA)	413750N 0445430E	West of Veli aerodrome on the right bank of the River Mtkvari

See also the Visual Approach Chart AD 2.UGTB-VAC.

UGTB AD 2.23 Additional information

Intense activity of raven flocks takes place daily from 08:00 to 10:00 (local time) when birds fly from resting area (town) across the approach of RWY 31L to their feeding area, NW of the airport. Their flight height varies from 100 FT (30 M) to 165 FT (50 M) AGL. From 16:00 to 19:00 (local time) the same activity as described above takes place in reverse when the birds return to their resting area.

Because of the permanent character of the bird activity in the vicinity of the airport, pilots are informed of the fact and the estimated heights (AGL), continually by ATIS.

During the above periods pilots of aircraft are advised, where the design limitations of aircraft installations permit, to operate landing lights in flight, during take-off, approach-to-land and climb and descent procedures.

Dispersal activities include occasional playing back of distressed calls from high fidelity weather-resistant speakers, high shooting sound produced of liquid gas cannons and the visual repellents (hunter dummies) allocated near the RWY 13R/31L. Also modifications of the airport environment are under way to reduce, if not eliminate, the wildlife hazard. No landfills in the vicinity and no open waste-bins on the aerodrome. Ground and grass cover is treated properly. No farming activity in the vicinity.

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UGTB AD 2.24 Charts related to an aerodrome

Chart Name	Page
Aerodrome chart - ICAO	AD 2.UGTB-ADC
Aircraft parking and ground movement chart - ICAO	AD 2.UGTB-APGMC
Aerodrome obstacle chart - ICAO Type A	AD 2.UGTB-AOC-A
Area chart - ICAO	AD 2.UGTB-ARC
Standard Departure Chart - Instrument - ICAO - RNAV RWY 13R	AD 2.UGTB-SID-RNAV-13R-1
Standard Departure Routes and Coding - Instrument - RNAV RWY 13R (Part 1)	AD 2.UGTB-SID-RNAV-13R-3
Standard Departure Routes and Coding - Instrument - RNAV RWY 13R (Part 2)	AD 2.UGTB-SID-RNAV-13R-5
Standard Departure Chart - Instrument - ICAO - RNAV RWY 31L	AD 2.UGTB-SID-RNAV-31L-1
Standard Departure Routes and Coding - Instrument - RNAV RWY 31L (Part 1)	AD 2.UGTB-SID-RNAV-31L-3
Standard Departure Routes and Coding - Instrument - RNAV RWY 31L (Part 2)	AD 2.UGTB-SID-RNAV-31L-5
Standard Departure Chart - Instrument - ICAO - RNAV RWY 31L (TAVRO)	AD 2.UGTB-SID-RNAV-31L-T-1
Standard Departure Routes and Coding - Instrument - RNAV RWY 31L (TAVRO)	AD 2.UGTB-SID-RNAV-31L-T-3
Standard Departure Chart - Instrument - ICAO RWY 13R/31L	AD 2.UGTB-SID-13R/31L-1
Standard Departure Routes - Instrument RWY 13R/31L	AD 2.UGTB-SID-13R/31L-3
Standard Arrival Chart - Instrument - ICAO - RNAV RWY 13R	AD 2.UGTB-STAR-RNAV-13R-1
Standard Arrival Routes - Instrument - RNAV RWY 13R	AD 2.UGTB-STAR-RNAV-13R-3
Standard Arrival Chart - Instrument - ICAO - RNAV RWY 31L	AD 2.UGTB-STAR-RNAV-31L-1
Standard Arrival Routes - Instrument - RNAV RWY 31L	AD 2.UGTB-STAR-RNAV-31L-3
ATC Surveillance Minimum Altitude Chart - ICAO	AD 2.UGTB-ATCSMAC-1
ATC Surveillance Minimum Altitude sector's coordinates	AD 2.UGTB-ATCSMAC-3
Instrument approach chart - ICAO RWY 13R (ILSy)	AD 2.UGTB-IAC-13R-ILSy
Instrument Approach Chart - ICAO RWY 13R (ILSz)	AD 2.UGTB-IAC-13R-ILSz-1
Instrument Approach Coding RWY 13R (ILSz)	AD 2.UGTB-IAC-13R-ILSz-3
Instrument Approach Chart - ICAO RWY 13R (LOCy)	AD 2.UGTB-IAC-13R-LOCy
* the chart contains a text page	

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Chart Name	Page
Instrument Approach Chart - ICAO RWY 13R (LOCz)	AD 2.UGTB-IAC-13R-LOCz-1
Instrument Approach Coding RWY 13R (LOCz)	AD 2.UGTB-IAC-13R-LOCz-3
Instrument Approach Chart - ICAO RWY 31L (ILSy)	AD 2.UGTB-IAC-31L-ILSy
Instrument Approach Chart - ICAO RWY 31L (ILSz)	AD 2.UGTB-IAC-31L-ILSz-1
Instrument Approach Coding RWY 31L (ILSz)	AD 2.UGTB-IAC-31L-ILSz-3
Instrument Approach Chart - ICAO RWY 31L (LOCy)	AD 2.UGTB-IAC-31L-LOCy
Instrument Approach Chart - ICAO RWY 31L (LOCz)	AD 2.UGTB-IAC-31L-LOCz-1
Instrument Approach Coding RWY 31L (LOCz)	AD 2.UGTB-IAC-31L-LOCz-3
Instrument Approach Chart - ICAO RWY 13R (VOR)	AD 2.UGTB-IAC-13R-VOR
Instrument Approach Chart - ICAO RWY 31L (VOR)	AD 2.UGTB-IAC-31L-VOR
Visual Approach Chart - ICAO	AD 2.UGTB-VAC
Bird Concentrations and Movement - Index chart	AD 2.UGTB-BIRD
* the chart contains a text page	

UGTB AD 2.25 Visual segment surface (VSS) penetration

To be developed.

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AERODROME CHART - ICAO

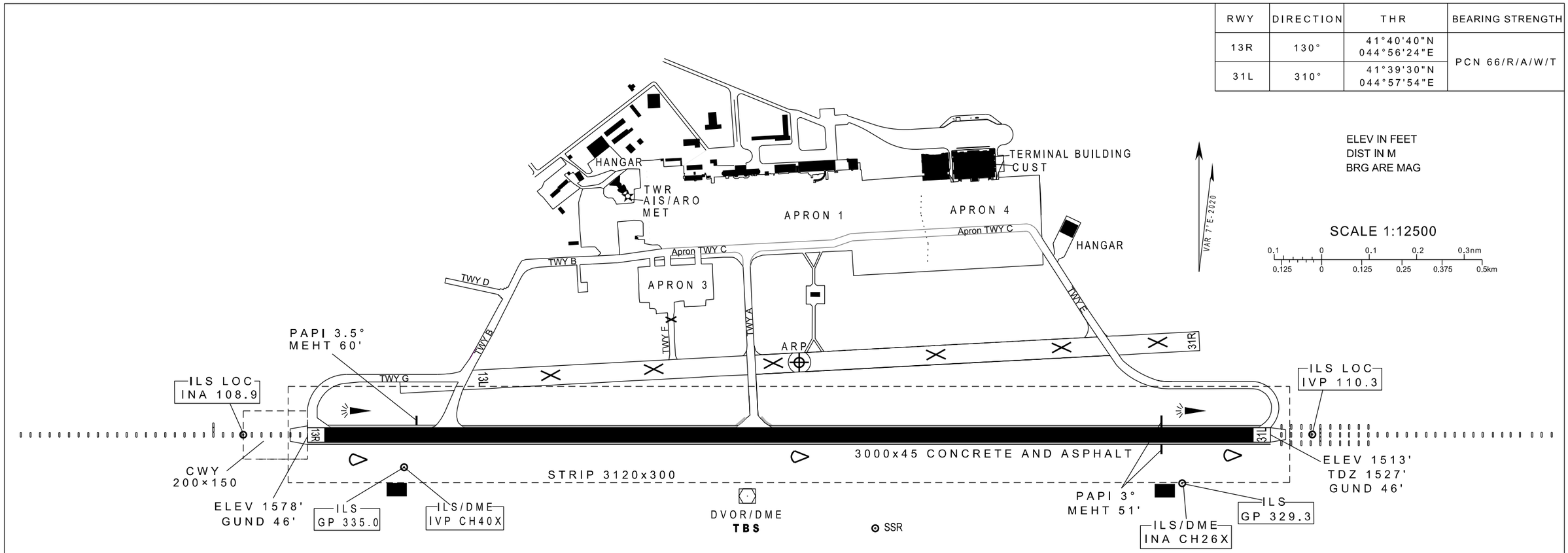
41° 40' 09" N
044° 57' 17" E

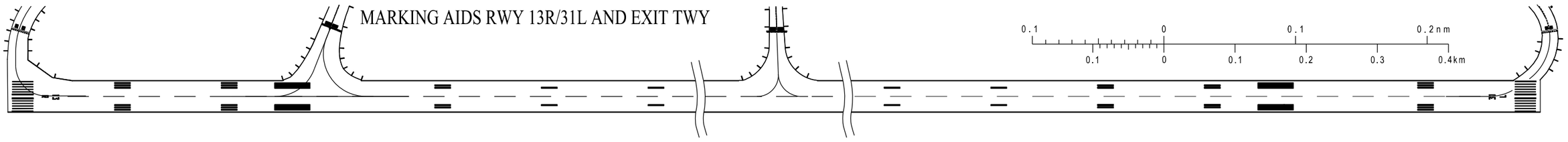
ELEV 1578'

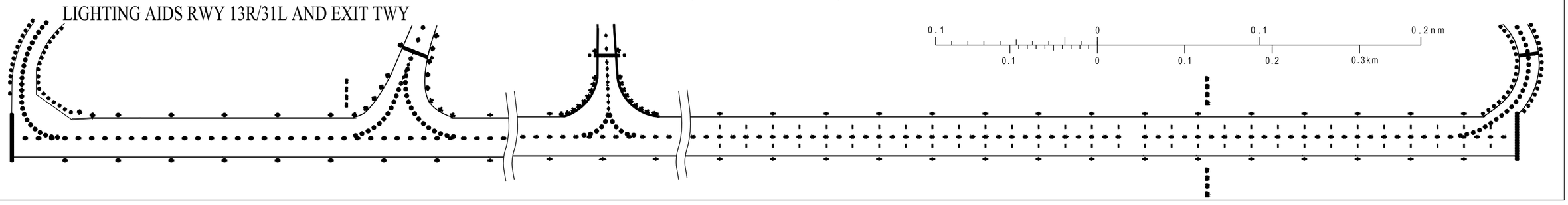
TWR	119.000 (Primary)
	128.000 (Secondary)
APRON	131.700

TBILISI /Tbilisi (UGTB)

RWY	DIRECTION	THR	BEARING STRENGTH
13R	130°	41°40'40"N 044°56'24"E	PCN 66/R/A/W/T
31L	310°	41°39'30"N 044°57'54"E	







Changes: Chart reissued

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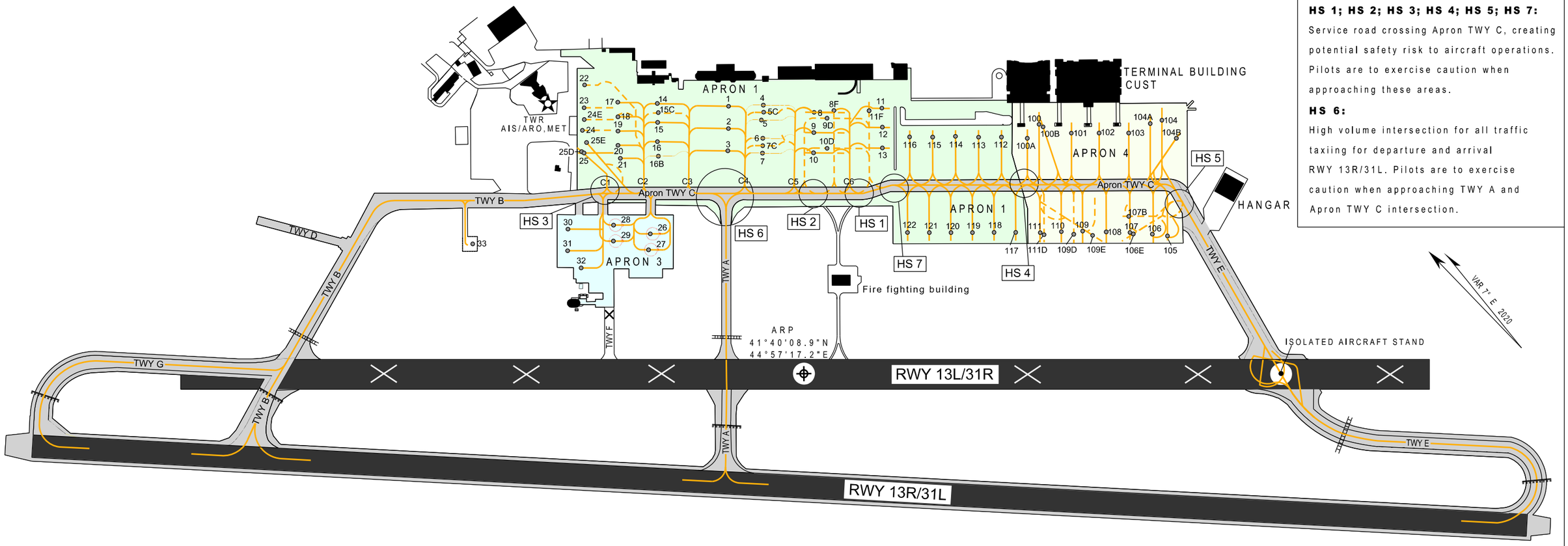
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AIRCRAFT PARKING AND GROUND MOVEMENT CHART - ICAO

APRON 4 ELEV 1560'

TWR	119.000 (Primary)
	128.000 (Secondary)
APRON	131.700

TBILISI/Tbilisi (UGTB)



CAUTION

HS 1; HS 2; HS 3; HS 4; HS 5; HS 7: Service road crossing Apron TWY C, creating potential safety risk to aircraft operations. Pilots are to exercise caution when approaching these areas.

HS 6: High volume intersection for all traffic taxiing for departure and arrival RWY 13R/31L. Pilots are to exercise caution when approaching TWY A and Apron TWY C intersection.

SCALE 1:8000

0.1 0 0.1 0.2nm
0.08 0 0.08 0.16 0.24 0.32 0.4 0.48km

INS COORDINATES FOR AIRCRAFT STANDS

POS.	COORDINATES	POS.	COORDINATES	POS.	COORDINATES	POS.	COORDINATES
1	41°40'24.99"N 044°57'28.44"E	14	41°40'28.32"N 044°57'24.08"E	28	41°40'24.54"N 044°57'14.11"E	107B	41°40'01.87"N 044°57'47.05"E
2	41°40'23.95"N 044°57'27.10"E	15	41°40'27.43"N 044°57'22.99"E	29	41°40'23.80"N 044°57'13.15"E	108	41°40'02.10"N 044°57'44.58"E
3	41°40'22.91"N 044°57'25.75"E	15C	41°40'27.82"N 044°57'23.61"E	30	41°40'26.39"N 044°57'11.01"E	109	41°40'03.15"N 044°57'43.09"E
4	41°40'23.49"N 044°57'30.70"E	16	41°40'26.51"N 044°57'21.86"E	31	41°40'25.39"N 044°57'09.70"E	109D	41°40'03.45"N 044°57'42.41"E
5	41°40'22.80"N 044°57'29.79"E	16B	41°40'25.85"N 044°57'20.99"E	32	41°40'23.98"N 044°57'09.52"E	109E	41°40'02.57"N 044°57'43.63"E
5C	41°40'23.14"N 044°57'30.24"E	17	41°40'30.12"N 044°57'21.70"E	33	41°40'30.28"N 044°57'03.93"E	110	41°40'04.15"N 044°57'41.81"E
6	41°40'21.96"N 044°57'28.68"E	18	41°40'29.45"N 044°57'20.85"E	100	41°40'10.24"N 044°57'46.86"E	111	41°40'05.10"N 044°57'40.47"E
7	41°40'21.27"N 044°57'27.78"E	19	41°40'28.78"N 044°57'20.01"E	100A	41°40'10.17"N 044°57'45.38"E	111D	41°40'04.78"N 044°57'40.54"E
7C	41°40'21.61"N 044°57'28.23"E	20	41°40'28.11"N 044°57'19.16"E	100B	41°40'09.94"N 044°57'46.97"E	112	41°40'11.31"N 044°57'43.72"E
8	41°40'20.88"N 044°57'33.45"E	21	41°40'27.39"N 044°57'18.53"E	101	41°40'08.41"N 044°57'48.42"E	113	41°40'12.33"N 044°57'42.27"E
8F	41°40'19.85"N 044°57'33.89"E	22	41°40'32.47"N 044°57'20.60"E	102	41°40'07.17"N 044°57'50.16"E	114	41°40'13.35"N 044°57'40.83"E
9	41°40'19.94"N 044°57'32.22"E	23	41°40'31.40"N 044°57'19.25"E	103	41°40'05.84"N 044°57'52.03"E	115	41°40'14.38"N 044°57'39.38"E
9D	41°40'20.02"N 044°57'33.91"E	24	41°40'30.43"N 044°57'17.76"E	104	41°40'04.94"N 044°57'54.84"E	116	41°40'15.40"N 044°57'37.93"E
10	41°40'19.00"N 044°57'30.99"E	24E	41°40'30.82"N 044°57'18.58"E	104A	41°40'05.31"N 044°57'53.91"E	117	41°40'06.13"N 044°57'38.85"E
10D	41°40'18.61"N 044°57'32.13"E	25	41°40'29.37"N 044°57'16.40"E	104B	41°40'03.45"N 044°57'54.66"E	118	41°40'07.09"N 044°57'37.49"E
11	41°40'18.01"N 044°57'37.97"E	25D	41°40'29.36"N 044°57'16.50"E	105	41°39'59.31"N 044°57'48.36"E	119	41°40'08.06"N 044°57'36.13"E
11F	41°40'18.05"N 044°57'36.44"E	25E	41°40'29.64"N 044°57'17.35"E	106	41°40'00.00"N 044°57'47.53"E	120	41°40'09.02"N 044°57'34.77"E
12	41°40'17.11"N 044°57'36.84"E	26	41°40'22.49"N 044°57'15.90"E	106E	41°40'00.88"N 044°57'46.16"E	121	41°40'09.99"N 044°57'33.41"E
13	41°40'16.13"N 044°57'35.60"E	27	41°40'21.81"N 044°57'14.84"E	107	41°40'01.03"N 044°57'46.06"E	122	41°40'10.95"N 044°57'32.05"E

APRON SURFACE & STRENGTH

APRON 1 - Concrete and asphalt - PCN 53/R/B/W/U
Aircraft stands № 112,113,114,115,116 - Concrete - PCN 62/R/A/W/T
Aircraft stands № 117,118,119,120,121,122 - Asphalt - PCN 127/F/C/X/T

APRON 3 - Concrete and asphalt - PCN 12/F/B/X/T

Aircraft Stand 33 - Asphalt - PCN 12/F/B/X/T

APRON 4 - Concrete - PCN 72/R/A/W/T

LEGEND	
TAXI LANE	C4
AIRCRAFT STAND	23
HELICOPTER STAND	27
RWY-HOLDING POSITION MARKING PATTERN A	
RWY-HOLDING POSITION MARKING PATTERN B	

TAXIWAYS WIDTH, SURFACE & STRENGTH

TWY A :18 M Concrete and asphalt PCN 59/R/B/W/U
TWY B :23 M Concrete and asphalt PCN 65/R/B/W/U
Apron TWY C: 23 M Concrete and asphalt PCN 65/R/B/W/U
TWY D :16 M Concrete PCN 16/R/C/X/T
TWY E :23 M Concrete PCN 65/R/A/W/U
TWY F :18 M Concrete and asphalt PCN 12/F/B/X/T
TWY G :23 M Concrete and asphalt PCN 114/F/C/X/T PCN 65/R/A/X/T

Changes: Chart reissued

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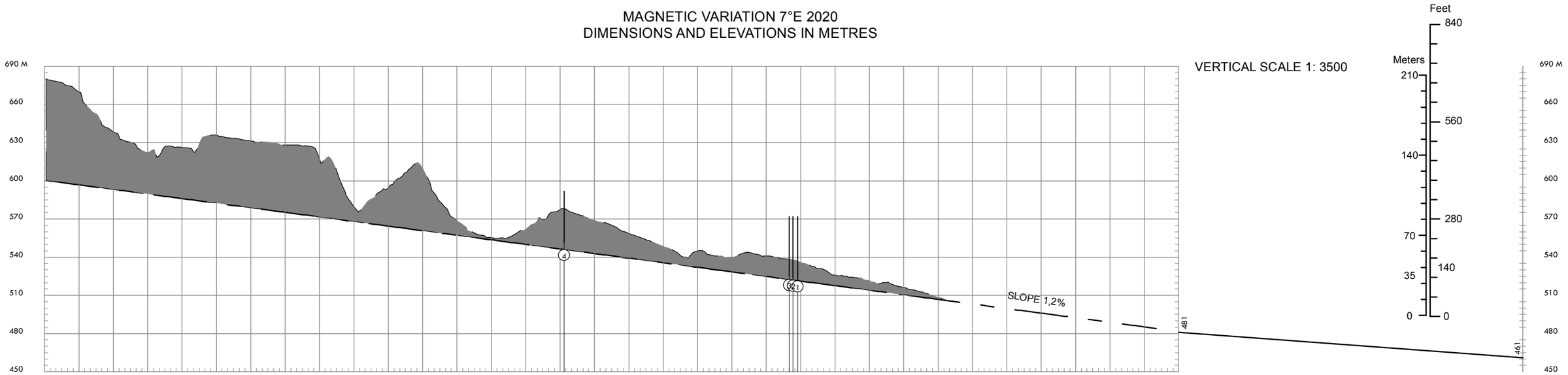
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TBILISI/Tbilisi (UGTB)
RWY 13R/31L

AERODROME OBSTACLE CHART - ICAO

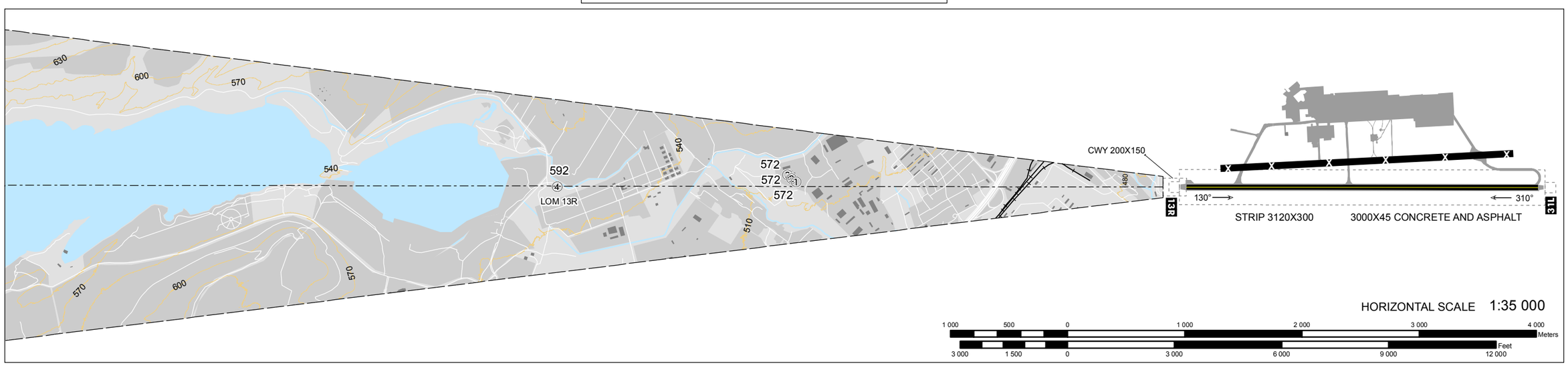
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 7°E 2020
DIMENSIONS AND ELEVATIONS IN METRES



DECLARED DISTANCES

RWY 13R		RWY 31L
3000	TAKE-OFF RUN AVAILABLE	3000
3000	TAKE-OFF DISTANCE AVAILABLE	3200
3000	ACCELERATE STOP DIST. AVAILABLE	3000
3000	LANDING DISTANCE AVAILABLE	3000



Changes: Chart reissued

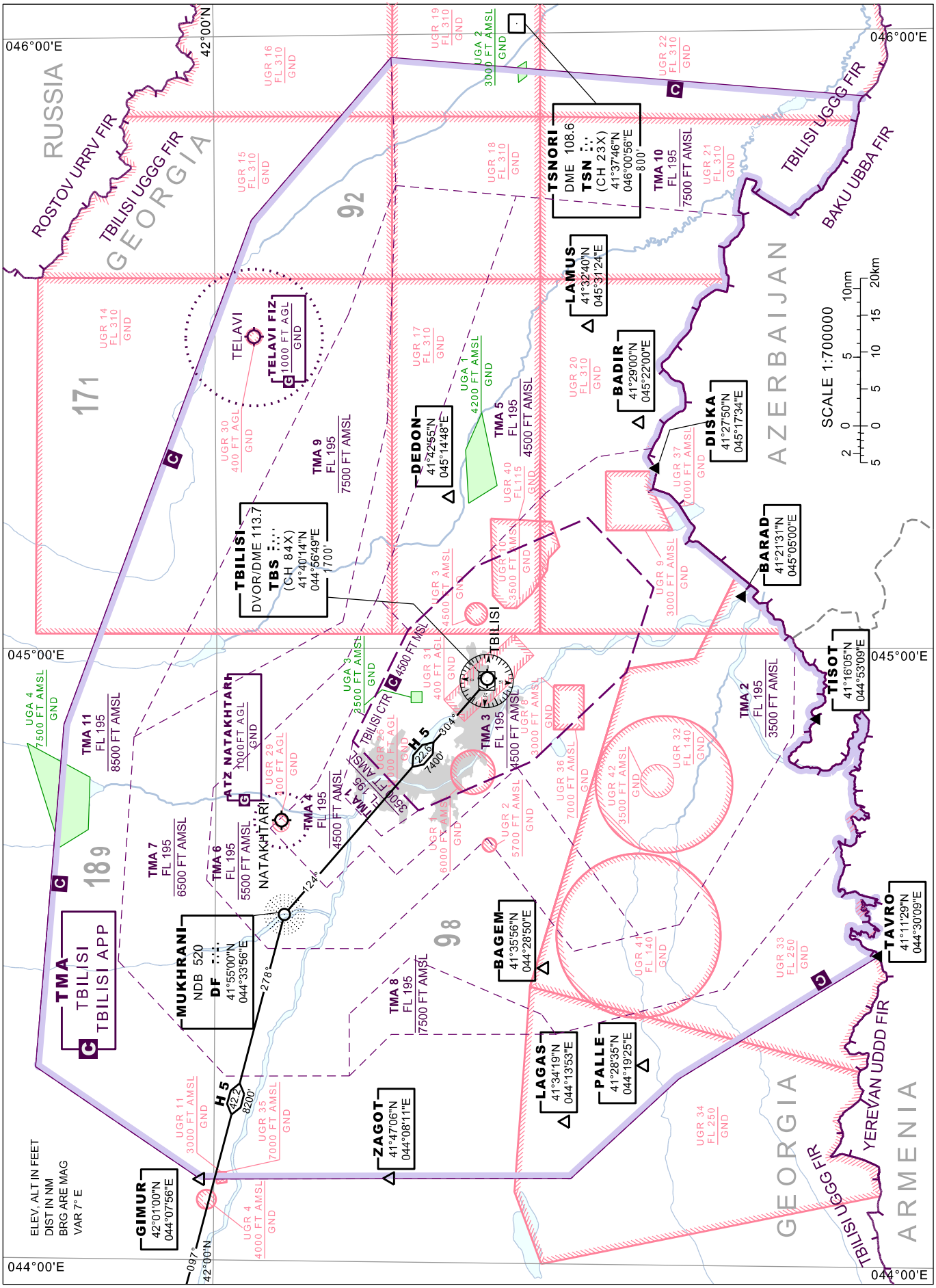
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AREA CHART - ICAO

APP 134.600
TWR 119.000 (Primary)
128.000 (Secondary)
INFO 124.150
ATIS 132.800

TBILISI/Tbilisi (UGTB)



Changes: Chart reissued

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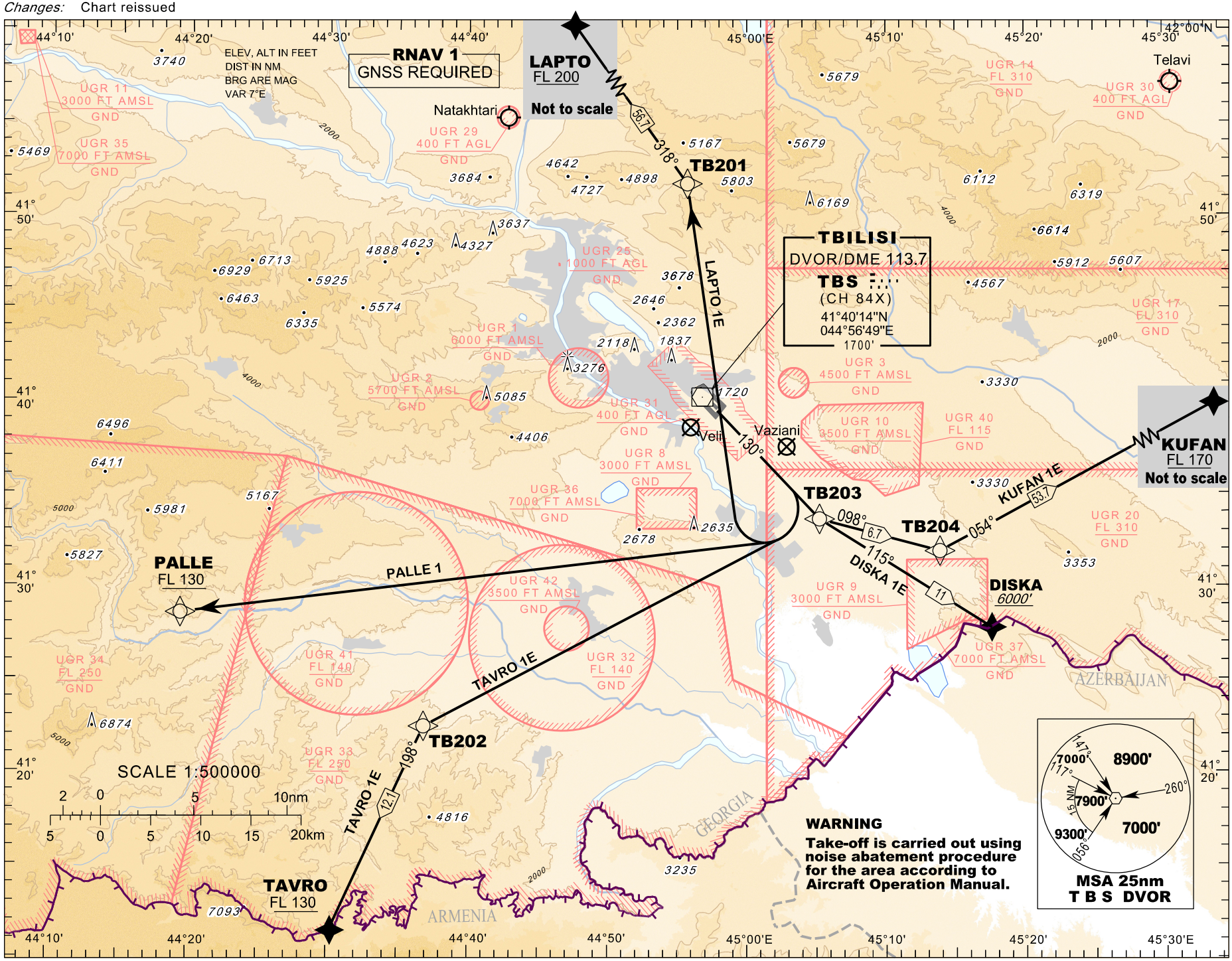
Changes: Chart reissued

STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

TBILISI/Tbilisi (UGTB)

RNAV RWY 13R

PALLE 1 LAPTO 1E KUFAN 1E
DISKA 1E TAVRO 1E



TRANSITION ALTITUDE
11000'

APP 134.600
TWR 119.000 (Primary)
128.000 (Secondary)

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STANDARD DEPARTURE ROUTES - RNAV (GNSS) INSTRUMENT - RWY13R

SID	ROUTING AND ALTITUDES	MIN.CLIMB GRAD.	Comment
PALLE 1	**PALLE ONE** Climb on course 130°, when passing 4000 FT turn right direct to PALLE. Cross PALLE at or above FL130.	4.4% to FL130	- From PALLE direct routes (en-route DCTs) are available to NOLGA, TETRO and BARUS. - For RWY 31L expect ZAGOT 1 departure.

RNAV 1 SID Coding Table of PALLE 1

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
CA	-	-	-	130° (136.6°)	-	-	A4000	-	RNAV1
DF	PALLE	-	41°28'35.0"N 044°19'25.0"E	-	-	R	+FL130	-	RNAV1

SID	ROUTING AND ALTITUDES	MIN.CLIMB GRAD.	Comment
LAPTO 1E	**LAPTO ONE ECHO** Climb on course 130°, when passing 4000 FT turn right direct to TB201, track to LAPTO. Cross LAPTO at or above FL200.	4% to FL140	NIL

RNAV 1 SID Coding Table of LAPTO 1E

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
CA	-	-	-	130° (136.6°)	-	-	A4000	-	RNAV1
DF	TB201	-	41°51'43.0"N 044°55'44.0"E	-	-	R	-	-	RNAV1
TF	LAPTO	-	42°37'53.0"N 044°11'19.0"E	318° (324.7°)	56.7	-	+FL200	-	RNAV1

SID	ROUTING AND ALTITUDES	MIN.CLIMB GRAD.	Comment
KUFAN 1E	**KUFAN ONE ECHO** To TB203 on course 130°, to TB204, to KUFAN. Cross KUFAN at or above FL170.	4% to FL150	NIL

RNAV 1 SID Coding Table of KUFAN 1E

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
CF	TB203	-	41°33'40.0"N 045°05'13.0"E	130° (136.6°)	-	-	-	-	RNAV1
TF	TB204	-	41°31'57.0"N 045°13'51.0"E	098° (104.8°)	6.7	-	-	-	RNAV1
TF	KUFAN	-	41°57'18.0"N 046°17'08.0"E	054° (61.3°)	53.7	-	+FL170	-	RNAV1

SID	ROUTING AND ALTITUDES	MIN.CLIMB GRAD.	Comment
DISKA 1E	**DISKA ONE ECHO** To TB203 on course 130°, to DISKA. Cross DISKA at or above 6000FT.	3.9% to 6000 FT	NIL

RNAV 1 SID Coding Table of DISKA 1E

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
CF	TB203	-	41°33'40.0"N 045°05'13.0"E	130° (136.6°)	-	-	-	-	RNAV1
TF	DISKA	-	41°27'50.0"N 045°17'34.0"E	115° (122.1°)	11	-	+A6000	-	RNAV1

For continuation see AD 2.UGTB-SID-RNAV-13R-5

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STANDARD DEPARTURE ROUTES - RNAV (GNSS) INSTRUMENT - RWY 13R (Continuation)

SID	ROUTING AND ALTITUDES	MIN.CLIMB GRAD.	Comment
TAVRO 1E	**TAVRO ONE ECHO** Climb on course 130°, when passing 4000 FT turn right direct to TB202, track to TAVRO. Cross TAVRO at or above FL130.	4.3% to FL130	NIL

RNAV 1 SID Coding Table of TAVRO 1E

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
CA	–	-	-	130° (136.6°)	-	-	A4000	-	RNAV1
DF	TB202	-	41°22'29.0"N 044°36'51.0"E	-	-	R	-	-	RNAV1
TF	TAVRO	-	41°11'29.0"N 044°30'09.0"E	198° (204.7°)	12.1	-	+FL130	-	RNAV1

NOTE :

- When cleared level requires an a/c to level-off on SID, ATC Surveillance Minimum Altitudes will be respected by controller.
- As an alternative to any SID, controller may instruct to "CONTINUE RUNWAY HEADING" or "CLIMB STRAIGHT AHEAD". In such cases climb gradient of 3.9 % or greater shall be maintained up to 4500 FT and direct routing or vectoring should be expected.

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STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

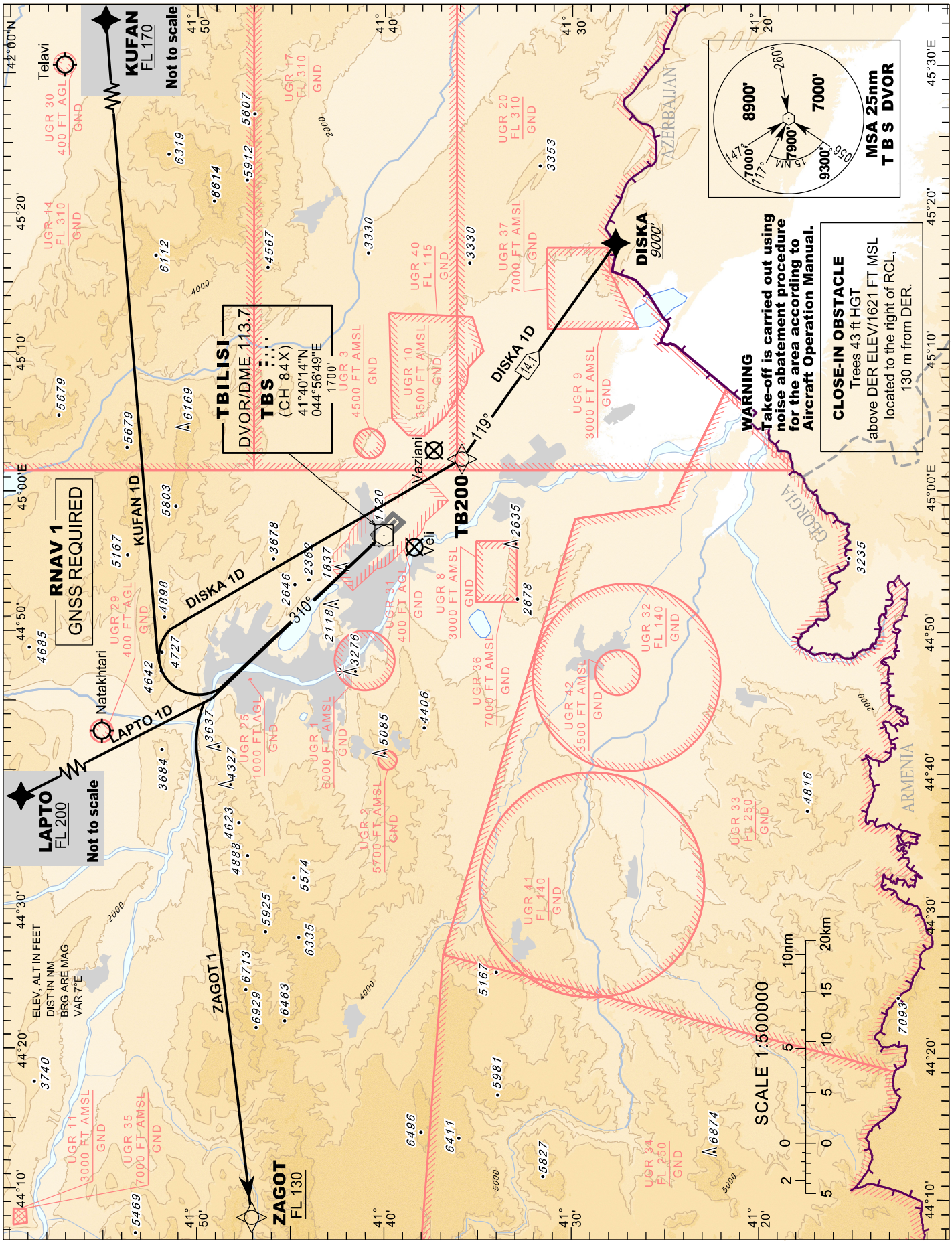
TBILISI/Tbilisi (UGTB)

RNAV RWY 31L

ZAGOT 1 LAPTO 1D
KUFAN 1D DISKA 1D

TRANSITION ALTITUDE
11000'

APP 134.600
TWR 119.000 (Primary)
128.000 (Secondary)



Changes: Chart reissued

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STANDARD DEPARTURE ROUTES - RNAV (GNSS) INSTRUMENT - RWY31L

SID	ROUTING AND ALTITUDES	MIN.CLIMB GRAD.	Comment
ZAGOT 1	**ZAGOT ONE** Climb on course 310°, when passing 7000 FT turn left direct to ZAGOT. Cross ZAGOT at or above FL130.	5.4% to 7000 FT. 4% from 7000 FT to FL130	- From ZAGOT direct routes (en-route DCTs) are available to NOLGA, TETRO and BARUS. - For RWY 13R expect PALLE 1 departure.

RNAV 1 SID Coding Table of ZAGOT1

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
CA	-	-	-	310° (316.5°)	-	-	A7000	-	RNAV1
DF	ZAGOT	-	41°47'06.0"N 044°08'11.0"E	-	-	L	+FL130	-	RNAV1

SID	ROUTING AND ALTITUDES	MIN.CLIMB GRAD.	Comment
LAPTO 1D	**LAPTO ONE DELTA** Climb on course 310°, when passing 6000 FT turn right direct to LAPTO. Cross LAPTO at or above FL200.	5.4% to 6000 FT. 4.4% from 6000 FT to FL200	NIL

RNAV 1 SID Coding Table of LAPTO 1D

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
CA	–	-	-	310° (316.5°)	-	-	A6000	-	RNAV1
DF	LAPTO	-	42°37'53.0"N 044°11'19.0"E	-	-	R	+FL200	-	RNAV1

SID	ROUTING AND ALTITUDES	MIN.CLIMB GRAD.	Comment
KUFAN 1D	**KUFAN ONE DELTA** Climb on course 310°, when passing 6500 FT turn right direct to KUFAN. Cross KUFAN at or above FL170.	5.4% to 6500 FT	NIL

RNAV 1 SID Coding Table of KUFAN 1D

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
CA	-	-	-	310° (316.5°)	-	-	A6500	-	RNAV1
DF	KUFAN	-	41°57'18.0"N 046°17'08.0"E	-	-	R	+FL170	-	RNAV1

SID	ROUTING AND ALTITUDES	MIN.CLIMB GRAD.	Comment
DISKA 1D	**DISKA ONE DELTA** Climb on course 310°, when passing 6500 FT turn right direct to TB200, track to DISKA. Cross DISKA at or above 9000 FT	5.4% to 6500 FT	NIL

RNAV 1 SID Coding Table of DISKA 1D

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
CA	-	-	-	310° (316.5°)	-	-	A6500	-	RNAV1
DF	TB200	-	41°36'04.0"N 045°02'15.0"E	-	-	R	-	-	RNAV1
TF	DISKA	-	41°27'50.0"N 045°17'34.0"E	119° (125.5°)	14.1	-	+A9000	-	RNAV1

For continuation see AD 2.UGTB-SID-RNAV-31L-5

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STANDARD DEPARTURE ROUTES - RNAV (GNSS) INSTRUMENT - RWY 31L (Continuation)

NOTE :

- When cleared level requires an a/c to level-off on SID, ATC Surveillance Minimum Altitudes will be respected by controller.
- As an alternative to any SID, controller may instruct to "CONTINUE RUNWAY HEADING" or "CLIMB STRAIGHT AHEAD". In such cases climb gradient of 5.4 % or greater shall be maintained up to 7000 FT and direct routing or vectoring should be expected.

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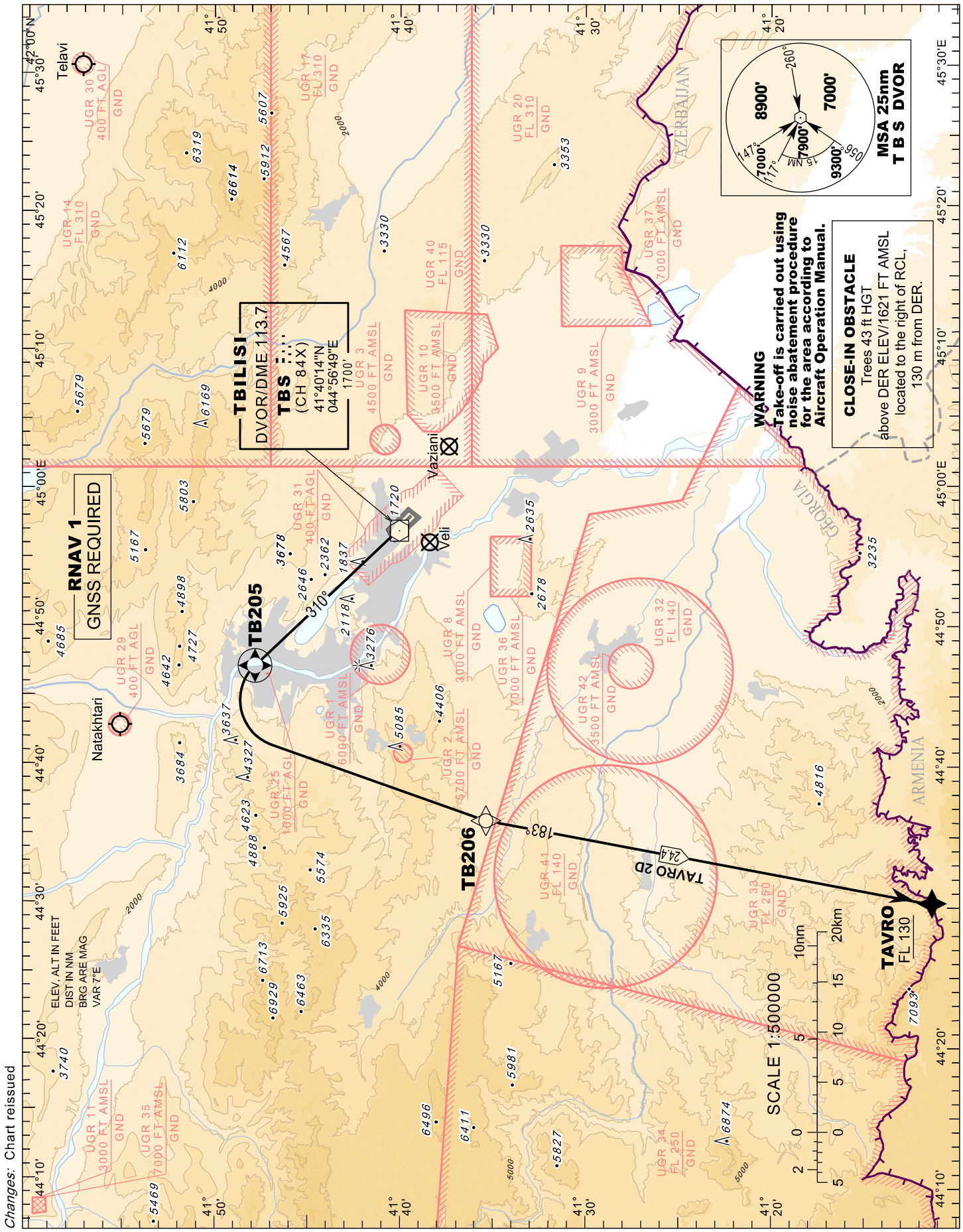
STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

TBILISI/Tbilisi (UGTB)
RNAV RWY 31L

TRANSITION ALTITUDE
11000'

APP 134.600
TWR 119.000 (Primary)
128.000 (Secondary)

TAVRO 2D



Changes: Chart reissued

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STANDARD DEPARTURE ROUTES - RNAV (GNSS) INSTRUMENT - RWY31L - TAVRO

SID	ROUTING AND ALTITUDES	MIN.CLIMB GRAD.	Comment
TAVRO 2D	**TAVRO TWO DELTA** To TB205 on course 310°, turn left direct to TB206, to TAVRO. Cross TAVRO at or above FL130.	5.4% to 8000 FT.	NIL

RNAV 1 SID Coding Table of TAVRO 2D

Path Terminator	Waypoint			Course/Track °MAG(°True)	NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
CF	TB205	YES	41°48'00.4"N 044°47'06.4"E	310° (316.5°)	-	-	-	-	RNAV1
DF	TB206	-	41°35'32.0"N 044°36'00.0"E	-	-	L	-	-	RNAV1
TF	TAVRO	-	41°11'29.0"N 044°30'09.0"E	183° (190.4°)	24.4	-	+FL130	-	RNAV1

NOTE :

- When cleared level requires an a/c to level-off on SID, ATC Surveillance Minimum Altitudes will be respected by controller.
- As an alternative to any SID, controller may instruct to "CONTINUE RUNWAY HEADING" or "CLIMB STRAIGHT AHEAD". In such cases climb gradient of 5.4 % or greater shall be maintained up to 7000 FT and direct routing or vectoring should be expected.

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STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

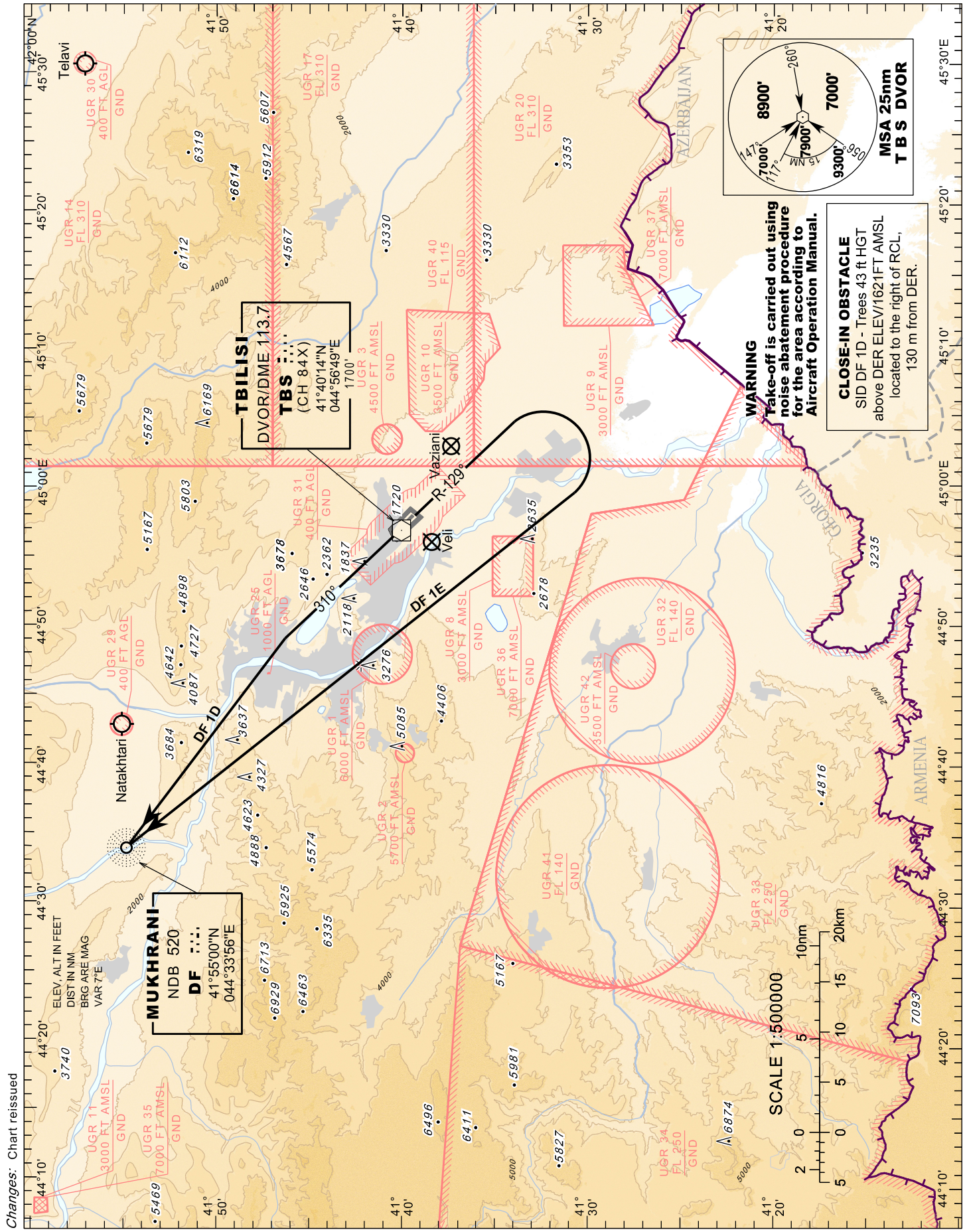
TRANSITION ALTITUDE
11000'

APP 134.600
TWR 119.000 (Primary)
128.000 (Secondary)

TBILISI/Tbilisi (UGTB)

RWY 13R/31L

DF 1D DF 1E



Changes: Chart reissued

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STANDARD DEPARTURE ROUTES - INSTRUMENT - RWY 13R / 31L

RWY	SID	ROUTING AND ALTITUDES	MIN.CLIMB GRAD.
31L	**DF 1D**	**DELTA FOXTROT ONE DELTA** Climb on heading 310°, when passing 5000 FT proceed direct to DF. Cross DF at or above 9000 FT.	5.4% to 9000FT
13R	**DF 1E**	**DELTA FOXTROT ONE ECHO** Climb on R-129 TBS , when passing 4000 FT turn right direct to DF.	NIL

NOTE :

- When cleared level requires an a/c to level-off on SID, ATC Surveillance Minimum Altitudes will be respected by controller.
- As an alternative to any SID, controller may instruct to "CONTINUE RUNWAY HEADING" or "CLIMB STRAIGHT AHEAD".

In such cases climb gradient of 5.4 % or greater shall be maintained up to 7000 FT for departures from RWY 31L.

Climb gradient of 3.9 % or greater shall be maintained up to 4500 FT for departures from RWY 13R.

Expect direct routing or vectoring.

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STANDARD ARRIVAL CHART-INSTRUMENT (STAR) - ICAO

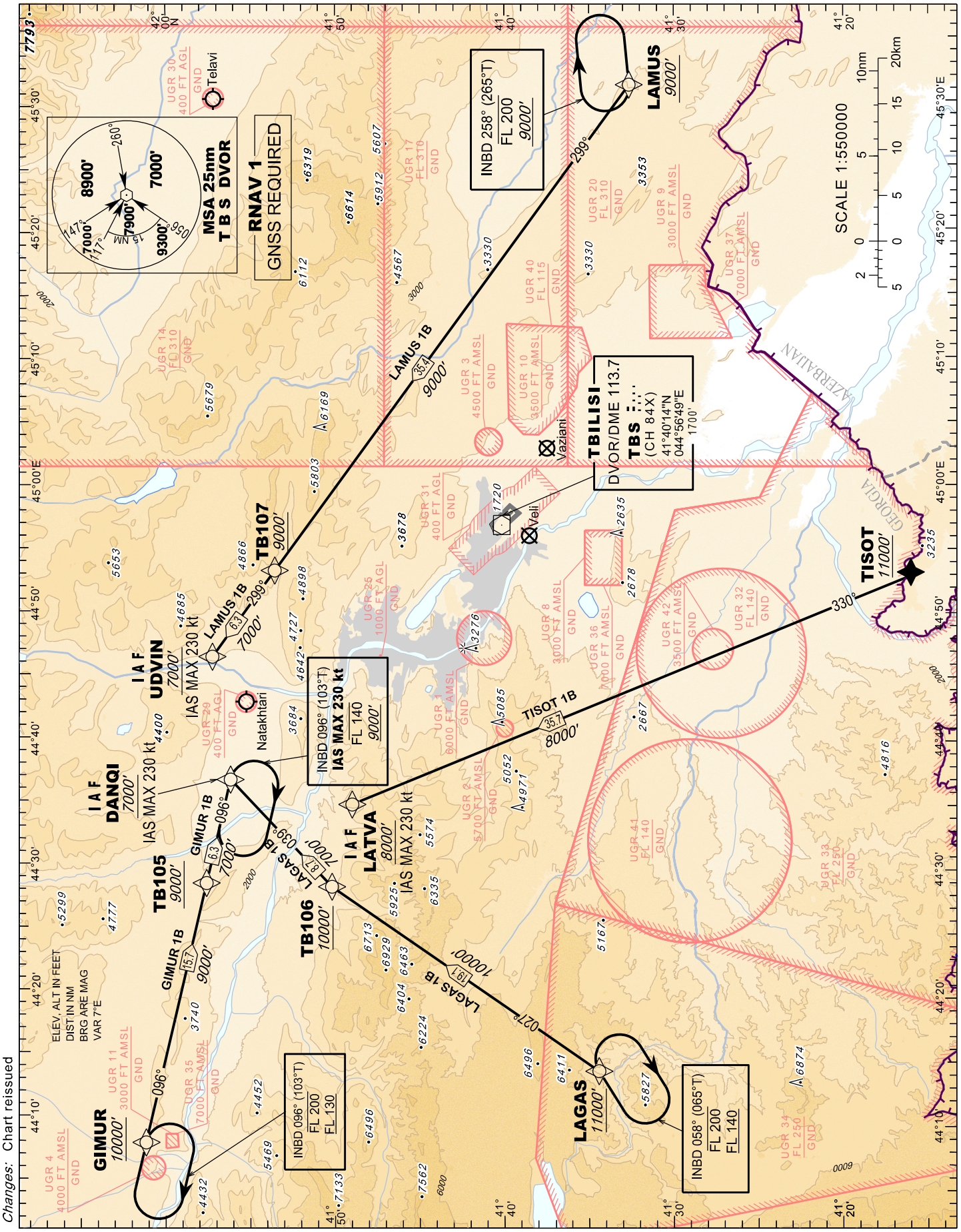
TBILISI/Tbilisi (UGTB)

RNAV RWY 13R

GIMUR 1B LAMUS 1B
TISOT 1B LAGAS 1B

TRANSITION LEVEL	FL 130
TRANSITION ALTITUDE	11000'

APP	134.600
TWR	119.000 (Primary)
	128.000 (Secondary)
ATIS	132.800



Changes: Chart reissued

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STANDARD ARRIVAL ROUTES - RNAV (GNSS) INSTRUMENT - RWY 13R

RNAV 1 STAR Coding Table of GIMUR 1B

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	GIMUR	-	42°01'00.0"N 044°07'56.0"E	-	-	-	+A10000	-	RNAV1
TF	TB105	-	41°57'34.0"N 044°28'29.0"E	96° (102.5°)	15.7	-	+A9000	-	RNAV1
TF	DANQI	-	41°56'11.3"N 044°36'40.5"E	96° (102.7°)	6.3	-	+A7000	-230	RNAV1

RNAV 1 STAR Coding Table of LAMUS 1B

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	LAMUS	-	41°32'40.0"N 045°31'24.0"E	-	-	-	+A9000	-	RNAV1
TF	TB107	-	41°53'37.0"N 044°53'11.0"E	299° (306.4°)	35.4	-	+A9000	-	RNAV1
TF	UDVIN	-	41°57'17.3"N 044°46'22.9"E	299° (305.9°)	6.3	-	+A7000	-230	RNAV1

RNAV 1 STAR Coding Table of TISOT 1B

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	TISOT	-	41°16'05.0"N 044°53'09.0"E	-	-	-	+A11000	-	RNAV1
TF	LATVA	-	41°49'00.0"N 044°34'45.0"E	330° (337.3°)	35.7	-	+A8000	-230	RNAV1

RNAV 1 STAR Coding Table of LAGAS 1B

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	LAGAS	-	41°34'19.0"N 044°13'53.0"E	-	-	-	+A11000	-	RNAV1
TF	TB106	-	41°50'10.0"N 044°28'15.0"E	27° (34.1°)	19.1	-	+A10000	-	RNAV1
TF	DANQI	-	41°56'11.3"N 044°36'40.5"E	39° (46.2°)	8.7	-	+A7000	-230	RNAV1

RNAV Holding Coding Tables

Fix Identifier	Inbound course °MAG(°True)	Time (min)	Turn Direction	Min alt.	Max alt.	Speed limit (kt)	Mag. VAR	Navigation Specification
GIMUR	96° (103.0°)	1.5*	R	FL130	FL200	280	-7°	RNAV1
LAGAS	58° (65.0°)	1.5*	R	FL140	FL200	280	-7°	RNAV1
LAMUS	258° (265.0°)	1.5*	R	A9000	FL200	280	-7°	RNAV1
DANQI	96° (103.0°)	1.0	R	A9000	FL140	230	-7°	RNAV1

* 1.0 min at or below FL140

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STANDARD ARRIVAL CHART-INSTRUMENT (STAR) - ICAO

TRANSITION LEVEL FL 130

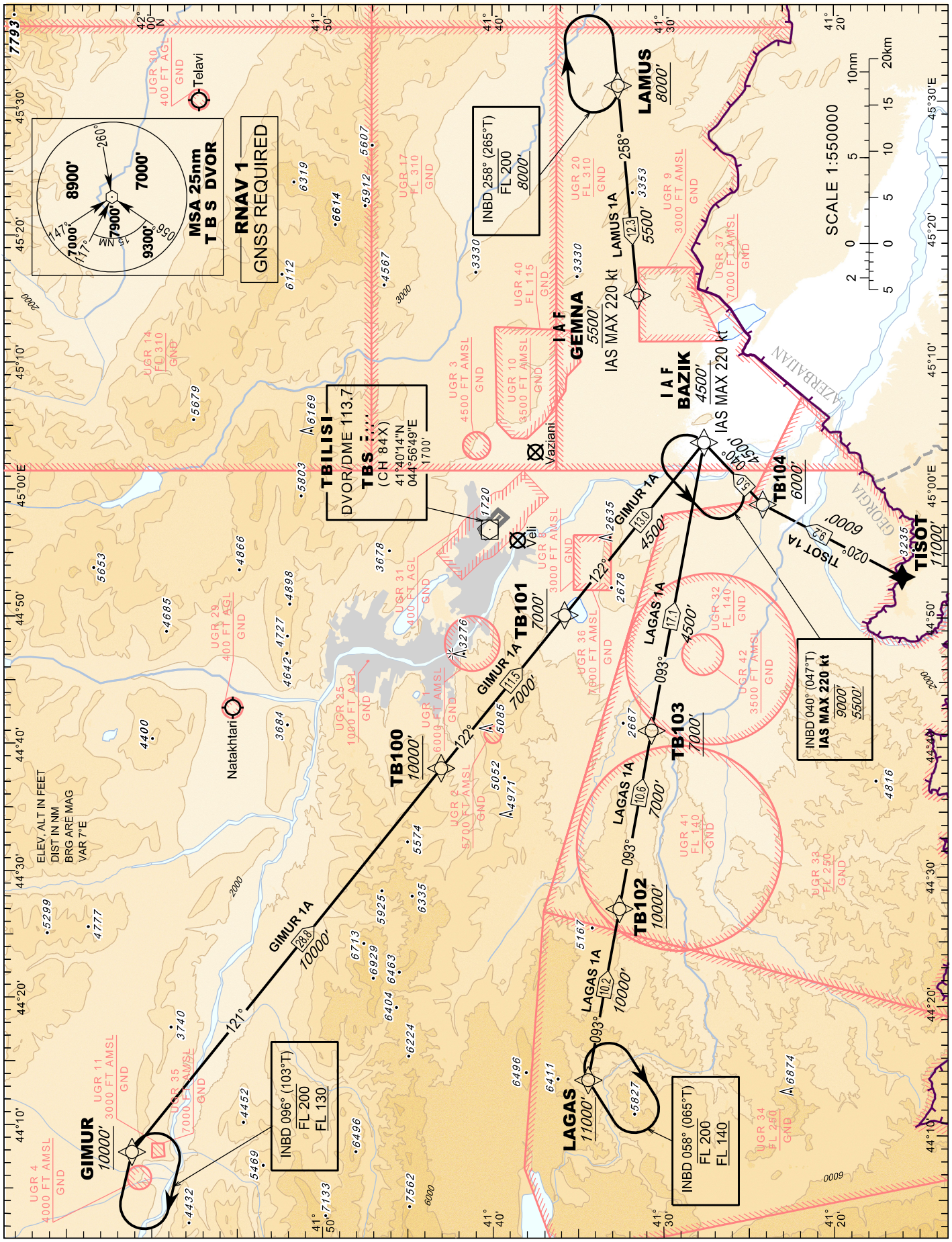
TRANSITION ALTITUDE 11000'

APP 134.600
TWR 119.000 (Primary)
128.000 (Secondary)
ATIS 132.800

TBILISI/Tbilisi (UGTB)

RNAV RWY 31L

GIMUR 1A LAMUS 1A
TISOT 1A LAGAS 1A



Changes: Chart reissued

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STANDARD ARRIVAL ROUTES - RNAV (GNSS) INSTRUMENT - RWY 31L

RNAV 1 STAR Coding Table of GIMUR 1A

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	GIMUR	-	42°01'00.0"N 044°07'56.0"E	-	-	-	+A10000	-	RNAV1
TF	TB100	-	41°43'03.0"N 044°38'09.0"E	121° (128.3°)	28.8	-	+A10000	-	RNAV1
TF	TB101	-	41°35'51.0"N 044°50'07.0"E	122° (128.7°)	11.5	-	+A7000	-	RNAV1
TF	BAZIK	-	41°27'41.5"N 045°03'35.1"E	122° (128.8°)	13	-	+A4500	-220	RNAV1

RNAV 1 STAR Coding Table of LAMUS 1A

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	LAMUS	-	41°32'40.0"N 045°31'24.0"E	-	-	-	+A8000	-	RNAV1
TF	GEMNA	-	41°31'34.7"N 045°15'03.4"E	258° (265.0°)	12.3	-	+A5500	-220	RNAV1

RNAV 1 STAR Coding Table of TISOT 1A

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	TISOT	-	41°16'05.0"N 044°53'09.0"E	-	-	-	+A11000	-	RNAV1
TF	TB104	-	41°24'15.0"N 044°58'45.0"E	20° (27.3°)	9.2	-	+A6000	-	RNAV1
TF	BAZIK	-	41°27'41.5"N 045°03'35.1"E	40° (46.6°)	5	-	+A4500	-220	RNAV1

RNAV 1 STAR Coding Table of LAGAS 1A

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	LAGAS	-	41°34'19.0"N 044°13'53.0"E	-	-	-	+A11000	-	RNAV1
TF	TB102	-	41°32'34.0"N 044°27'15.0"E	93° (99.8°)	10.2	-	+A10000	-	RNAV1
TF	TB103	-	41°30'44.0"N 044°41'09.0"E	93° (99.9°)	10.6	-	+A7000	-	RNAV1
TF	BAZIK	-	41°27'41.5"N 045°03'35.1"E	93° (100.1°)	17.1	-	+A4500	-220	RNAV1

RNAV Holding Coding Tables

Fix Identifier	Inbound course M °MAG(°True)	Time (min)	Turn Direction	Min alt.	Max alt.	Speed limit (kt)	Mag. VAR	Navigation Specification
GIMUR	96° (103.0°)	1.5*	R	FL130	FL200	280	-7°	RNAV1
LAGAS	58° (65.0°)	1.5*	R	FL140	FL200	280	-7°	RNAV1
LAMUS	258° (265.0°)	1.5*	R	A8000	FL200	280	-7°	RNAV1
BAZIK	40° (47.0°)	1.0	L	A5500	A9000	220	-7°	RNAV1

* 1.0 min at or below FL140

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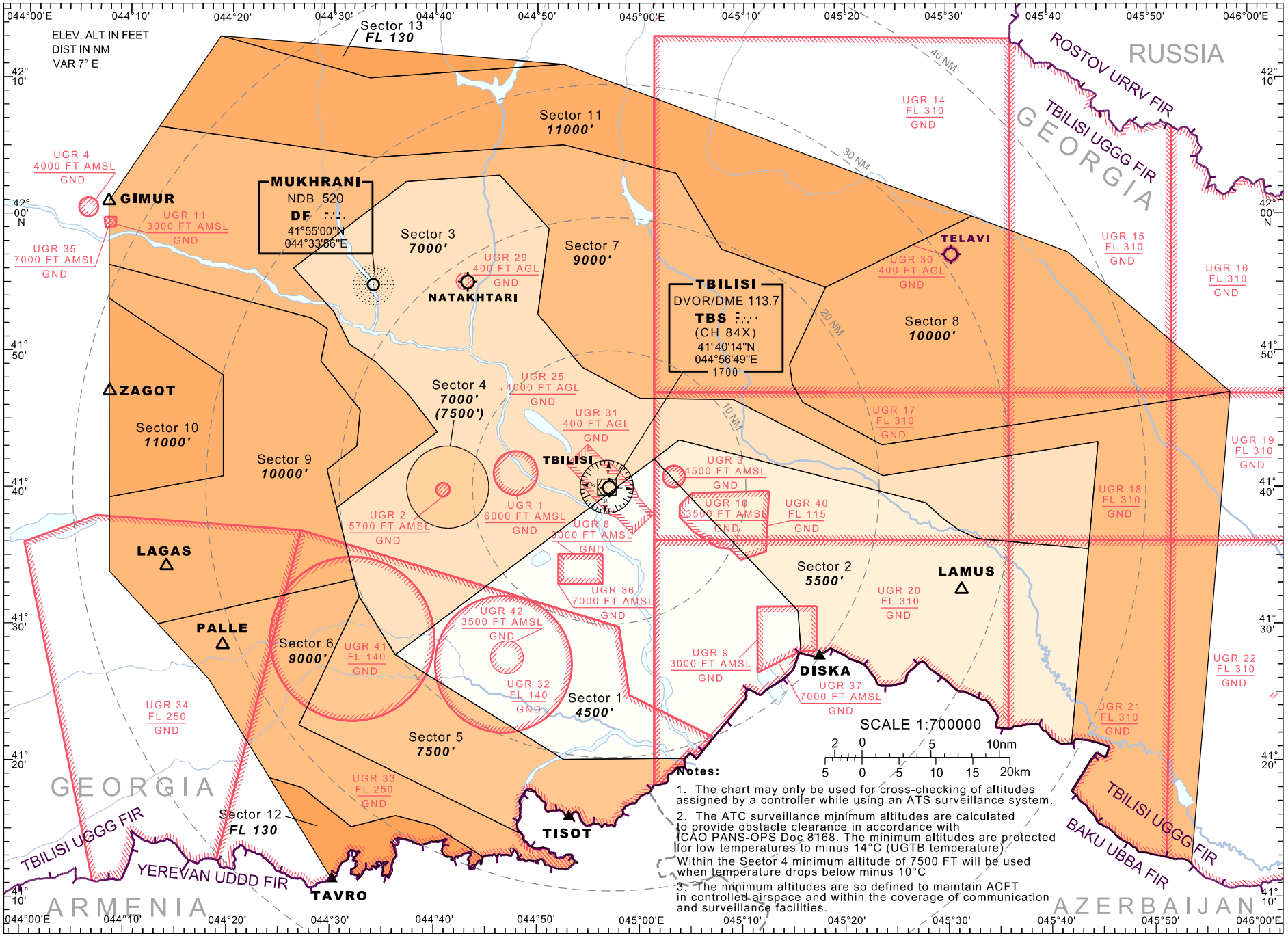
Changes: Chart reissued

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

AERODROME ELEV. 1578'
TRANSITION ALTITUDE 11000'

APP 134.600
TWR 119.000 (Primary)
128.000 (Secondary)

TBILISI/Tbilisi (UGTB)



Notes:

1. The chart may only be used for cross-checking of altitudes assigned by a controller while using an ATS surveillance system.
2. The ATC surveillance minimum altitudes are calculated to provide obstacle clearance in accordance with ICAO PANS-OPS Doc 8168. The minimum altitudes are protected for low temperatures to minus 14°C (UGTB temperature). Within the Sector 4 minimum altitude of 7500 FT will be used when temperature drops below minus 10°C
3. The minimum altitudes are so defined to maintain ACFT in controlled airspace and within the coverage of communication and surveillance facilities.

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ATC Surveillance Minimum Altitude Sectors' Coordinates

Sector	Lateral Limits
Sector 1	412755N 0443615E - 414217N 0450126E - 413110N 0451526E - 412804N 0451543E - then along the state border - 412022N 0450423E - 412018N 0445238E - 412755N 0443615E
Sector 2	414217N 0450126E - 414340N 0450353E - 413901N 0452757E - 413756N 0452930E - 413701N 0453109E - 413622N 0453301E - 413535N 0454349E - 412122N 0454200E - then along the state border - 412804N 0451543E - 413110N 0451526E - 414217N 0450126E
Sector 3	415611N 0442606E - 420234N 0443708E - 420303N 0444617E - 415909N 0445109E - 415253N 0445003E - 414900N 0445425E - 414643N 0450005E - 414638N 0450910E - 414102N 0452348E - 414325N 0454449E - 413535N 0454349E - 413622N 0453301E - 413701N 0453109E - 413756N 0452930E - 413901N 0452757E - 414340N 0450353E - 414217N 0450126E - 412755N 0443615E - 413210N 0443242E - 413327N 0443213E - 413840N 0443026E - 414414N 0444014E - 414700N 0443723E - 414921N 0443411E - 415037N 0443138E - 415302N 0443003E - 415611N 0442606E
Sector 4	Circle with radius 3 NM, centered at 414012N 0444117E
Sector 5	413210N 0443242E - 412755N 0443615E - 412018N 0445238E - 412022N 0450423E - then along the state border - 411450N 0444830E - 412244N 0442654E - 413210N 0443242E
Sector 6	413004N 0441306E - 413327N 0443213E - 413210N 0443242E - 412244N 0442654E - 411450N 0444830E - then along the state border - 411308N 0444451E - 411525N 0444005E - 411608N 0443620E - 411518N 0443201E - 411810N 0442714E - 411852N 0442404E - 412602N 0441808E - 413004N 0441306E
Sector 7	420100N 0440756E - 420630N 0441251E - 420420N 0443356E - 420517N 0445232E - 420312N 0450336E - 415739N 0450804E - 415450N 0451815E - 414912N 0451442E - 414745N 0451457E - 414625N 0451558E - 414317N 0452342E - 414700N 0455746E - 411225N 0455332E - then along the state border - 412122N 0454200E - 413535N 0454349E - 414325N 0454449E - 414102N 0452348E - 414638N 0450910E - 414643N 0450005E - 414900N 0445425E - 415253N 0445003E - 415909N 0445109E - 420303N 0444617E - 420234N 0443708E - 415611N 0442606E - 415302N 0443003E - 415037N 0443138E - 414921N 0443411E - 414700N 0443723E - 414414N 0444014E - 413840N 0443026E - 414127N 0442929E - 414310N 0443222E - 414550N 0443242E - 414924N 0442849E - 415144N 0442927E - 415233N 0442752E - 415620N 0440800E - 420100N 0440756E
Sector 8	415959N 0453237E - 415720N 0454158E - 414700N 0455746E - 414317N 0452342E - 414625N 0451558E - 414745N 0451457E - 414912N 0451442E - 415450N 0451815E - 415959N 0453237E
Sector 9	415620N 0440800E - 415233N 0442752E - 415144N 0442927E - 414924N 0442849E - 414550N 0443242E - 414310N 0443222E - 414127N 0442929E - 413840N 0443026E - 413327N 0443213E - 413004N 0441306E - 413353N 0440821E - 413920N 0440816E - 414056N 0441922E - 414820N 0441917E - 415352N 0440803E - 415620N 0440800E
Sector 10	415352N 0440803E - 414820N 0441917E - 414056N 0441922E - 413920N 0440816E - 415352N 0440803E
Sector 11	421309N 0441850E - 421008N 0443329E - 421111N 0445232E - 415959N 0453237E - 415450N 0451815E - 415739N 0450804E - 420312N 0450336E - 420517N 0445232E - 420420N 0443356E - 420630N 0441251E - 421309N 0441850E
Sector 12	411852N 0442404E - 411810N 0442714E - 411518N 0443201E - 411608N 0443620E - 411525N 0444005E - 411308N 0444451E - then along the state border - 411130N 0443008E - 411852N 0442404E
Sector 13	421309N 0441850E - 421111N 0445232E - 421008N 0443329E - 421309N 0441850E

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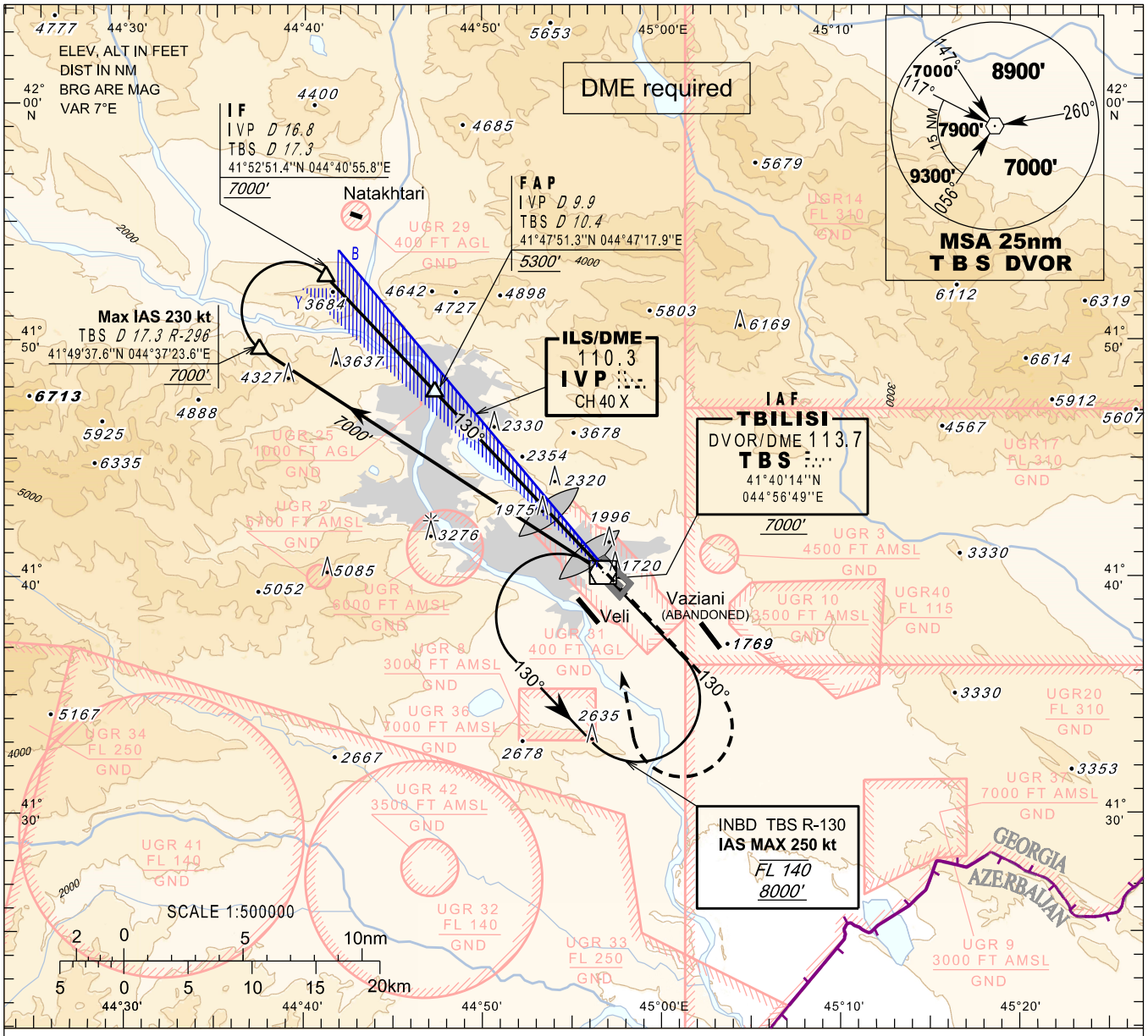
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV. 1578'
HEIGHTS RELATED TO
THR RWY 13R - ELEV 1578'

TRANSITION ALTITUDE 11000'

APP	134.600
TWR	119.000 (Primary)
	128.000 (Secondary)
ATIS	132.800

TBILISI/Tbilisi (UGTB)
ILS y
RWY 13R

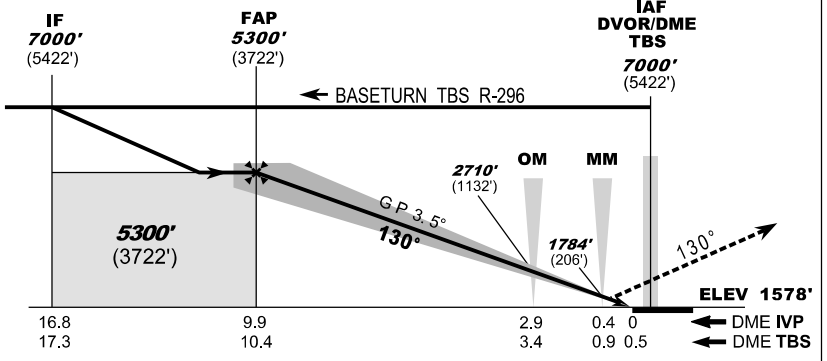


MISSED APPROACH

Normal:
Climb straight ahead to **7000'**, when passing **4500'** turn right to **TBS**, then as directed by **ATC**.

TBS DVOR Unserviceable:
Climb straight ahead to **7000'**, after passing **4500'** expect vectoring.

Radio Communication Failure:
Climb straight ahead to **8000'**, when passing **4500'** turn right to **TBS**, hold as published, when ready make new approach.



ILS RDH 50'

Straight in Approach	A B	C	D
OCA(H)	**1768** (190)	**1778** (200)	**1788** (210)

DME IVP NM	9	8	7	6	5	4	3	2	1
DME TBS NM	9.5	8.5	7.5	6.5	5.5	4.5	3.5	2.5	1.5
ALT (HGT) ft	**4973** (3395)	**4601** (3023)	**4230** (2652)	**3858** (2280)	**3486** (1908)	**3115** (1537)	**2743** (1165)	**2371** (793)	**2000** (422)

Changes: Chart reissued

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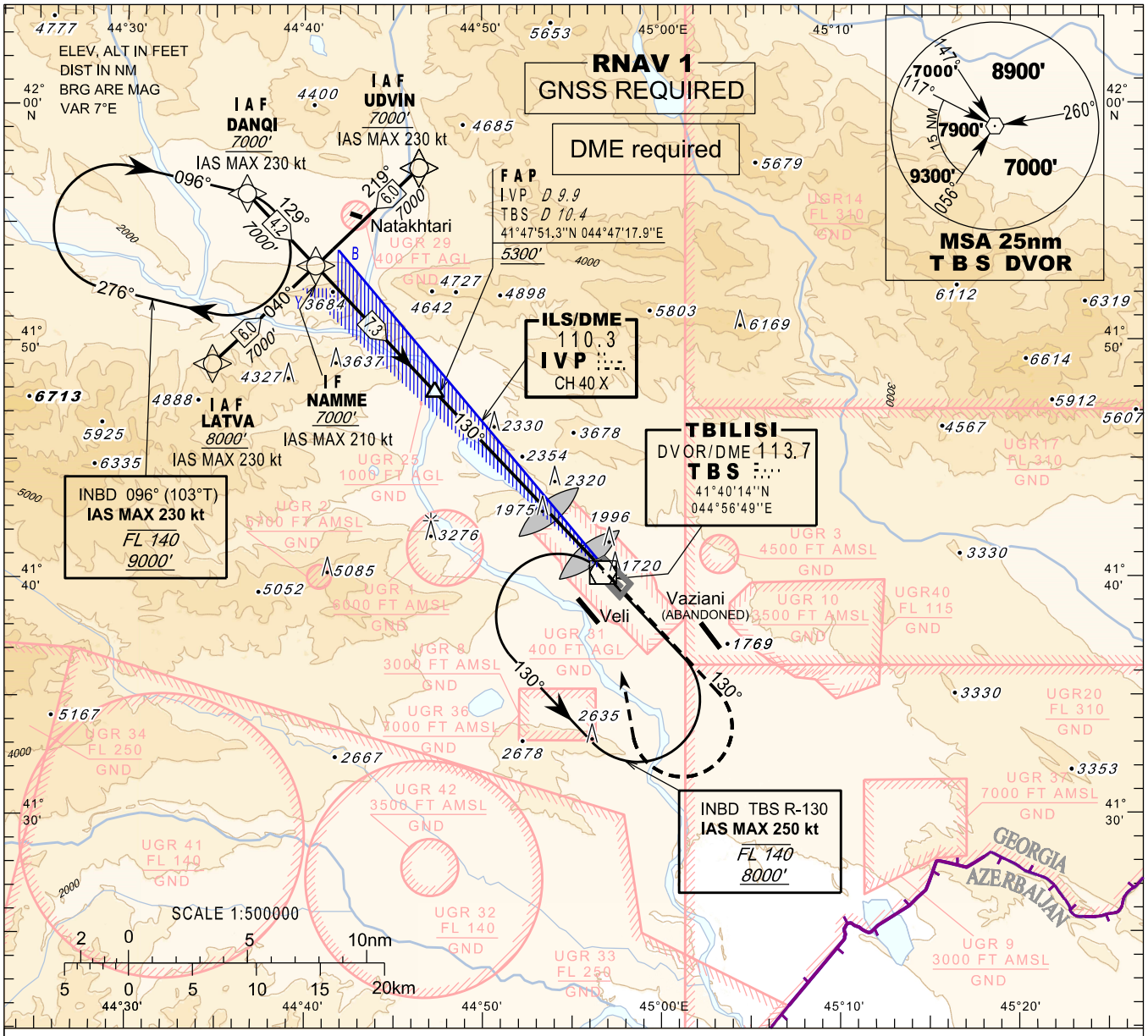
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV. 1578'
HEIGHTS RELATED TO
THR RWY 13R - ELEV 1578'

TRANSITION ALTITUDE 11000'

APP	134.600
TWR	119.000 (Primary)
	128.000 (Secondary)
ATIS	132.800

TBILISI/Tbilisi (UGTB)
ILS z
RWY 13R

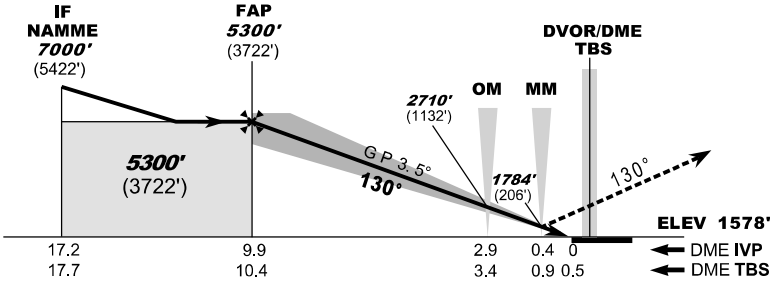


MISSED APPROACH

Normal:
Climb straight ahead to **7000'**, when passing **4500'** turn right to **TBS**, then as directed by **ATC**.

TBS DVOR Unserviceable:
Climb straight ahead to **7000'**, after passing **4500'** expect vectoring.

Radio Communication Failure:
Climb straight ahead to **8000'**, when passing **4500'** turn right to **TBS**, hold as published, when ready make new approach (ILS y or LOC y or VOR).



ILS RDH 50'

Straight in Approach	A B	C	D
OCA(H)	**1768** (190)	**1778** (200)	**1788** (210)

DME IVP NM	9	8	7	6	5	4	3	2	1
DME TBS NM	9.5	8.5	7.5	6.5	5.5	4.5	3.5	2.5	1.5
ALT (HGT) ft	**4973** (3395)	**4601** (3023)	**4230** (2652)	**3858** (2280)	**3486** (1908)	**3115** (1537)	**2743** (1165)	**2371** (793)	**2000** (422)

Changes: Chart reissued

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RNAV Transition Coding Tables - RWY 13R (ILSz)

LATVA transition									
Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	LATVA	-	41°49'00.0"N 044°34'45.0"E	-	-	-	+A8000	-230	RNAV1
TF	NAMME	-	41°53'08.8"N 044°40'33.6"E	40° (46.6°)	6	-	+A7000	-210	RNAV1

DANQI transition									
Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	DANQI	-	41°56'11.3"N 044°36'40.5"E	-	-	-	+A7000	-230	RNAV1
TF	NAMME	-	41°53'08.8"N 044°40'33.6"E	129° (135.8°)	4.2	-	+A7000	-210	RNAV1

UDVIN transition									
Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	UDVIN	-	41°57'17.3"N 044°46'22.9"E	-	-	-	+A7000	-230	RNAV1
TF	NAMME	-	41°53'08.8"N 044°40'33.6"E	219° (226.2°)	6	-	+A7000	-210	RNAV1

RNAV Holding Coding Table								
Fix Identifier	Inbound course °MAG(°True)	Time (min)	Turn Direction	Min alt.	Max alt.	Speed limit (kt)	Mag. VAR	Navigation Specification
DANQI	96° (103.0°)	1.0	R	A9000	FL140	230	-7°	RNAV1

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INSTRUMENT APPROACH CHART - ICAO

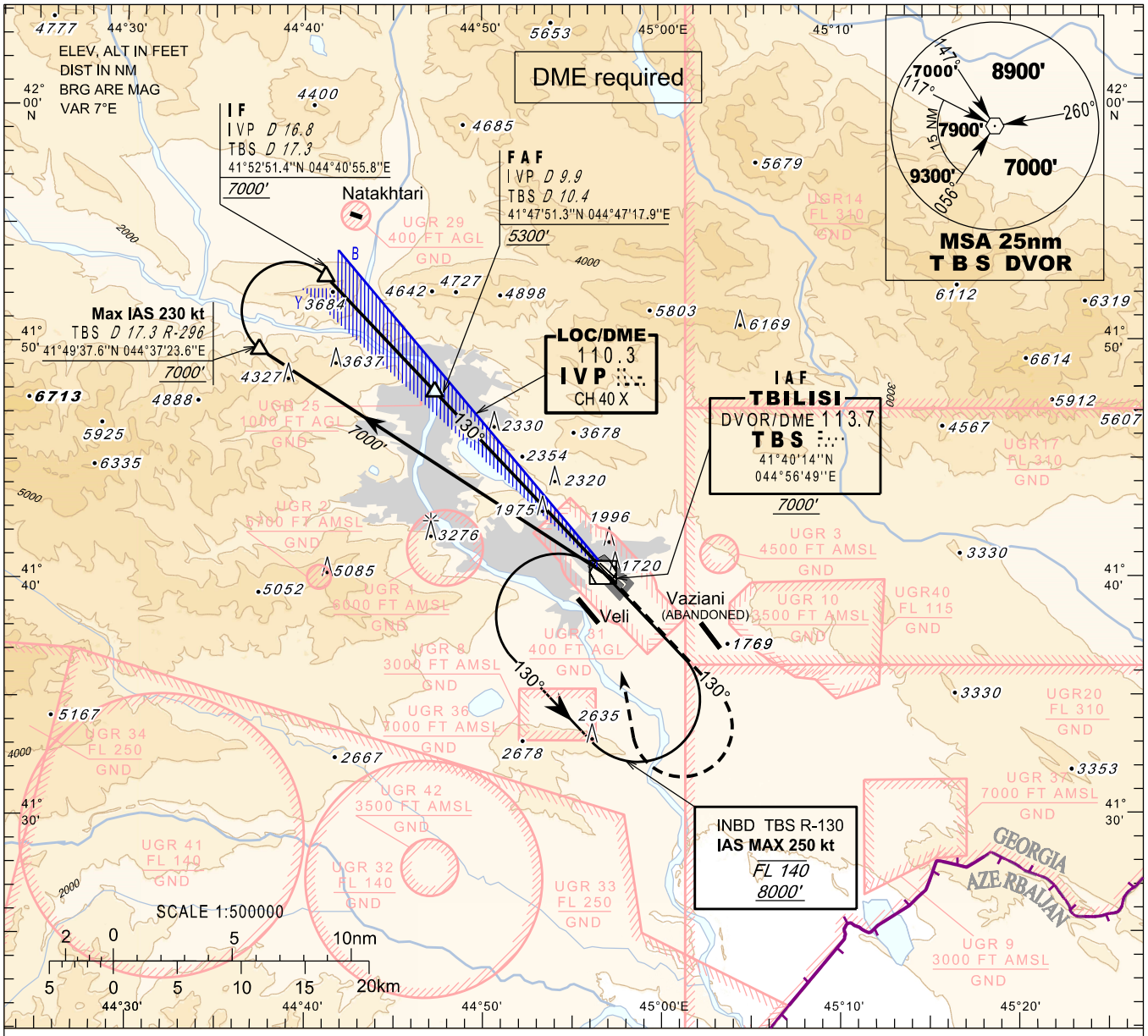
AERODROME ELEV. 1578'
HEIGHTS RELATED TO
THR RWY 13R - ELEV 1578'

TRANSITION ALTITUDE 11000'

APP	134.600
TWR	119.000 (Primary)
	128.000 (Secondary)
ATIS	132.800

TBILISI/Tbilisi (UGTB)

LOC y
RWY 13R

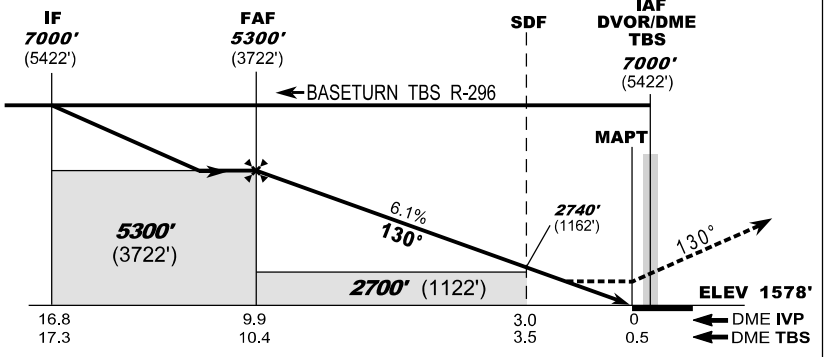


MISSED APPROACH

Normal:
Climb straight ahead to **7000'**, when passing **4500'** turn right to **TBS**, then as directed by **ATC**.

TBS DVOR Unserviceable:
Climb straight ahead to **7000'**, after passing **4500'** expect vectoring.

Radio Communication Failure:
Climb straight ahead to **8000'**, when passing **4500'** turn right to **TBS**, hold as published, when ready make new approach.



Timing is not authorised for defining the MAPT

Straight in Approach	A B C D
OCA(H)	**2280** (700)

DME IVP NM	9	8	7	6	5	4	3	2	1
DME TBS NM	9.5	8.5	7.5	6.5	5.5	4.5	3.5	2.5	1.5
ALT (HGT) ft	**4966** (3388)	**4595** (3017)	**4224** (2646)	**3853** (2275)	**3482** (1904)	**3111** (1533)	**2740** (1162)	**2369** (791)	**1998** (420)

Changes: Chart reissued

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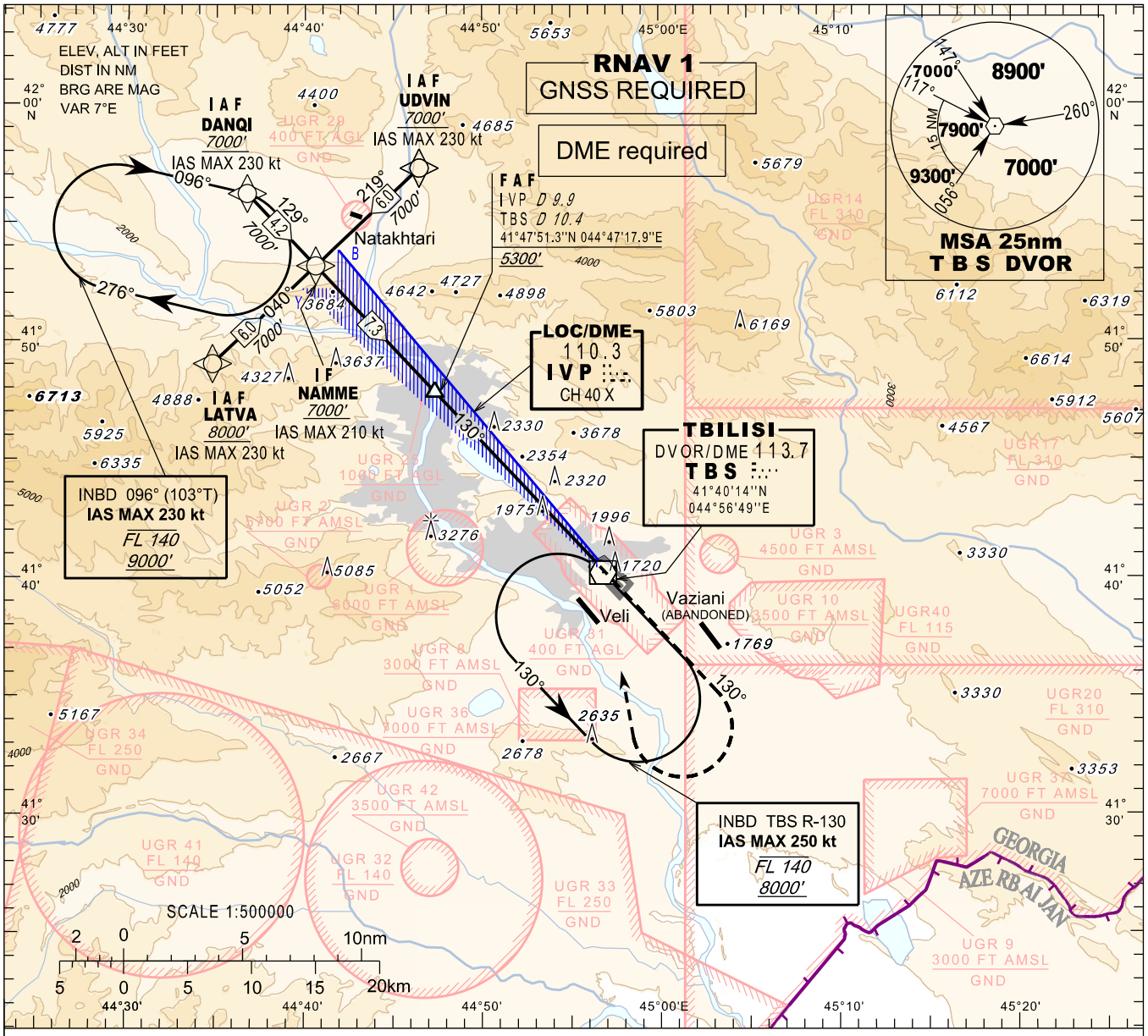
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV. 1578'
HEIGHTS RELATED TO
THR RWY 13R - ELEV 1578'

TRANSITION ALTITUDE 11000'

APP	134.600
TWR	119.000 (Primary)
	128.000 (Secondary)
ATIS	132.800

TBILISI/Tbilisi (UGTB)
LOC z
RWY 13R

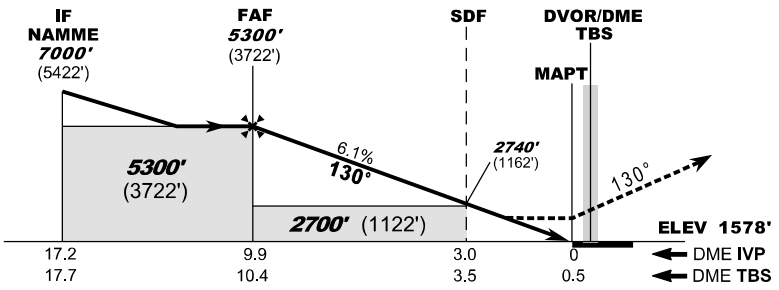


MISSED APPROACH

Normal:
Climb straight ahead to **7000'**, when passing **4500'** turn right to **TBS**, then as directed by **ATC**.

TBS DVOR Unserviceable:
Climb straight ahead to **7000'**, after passing **4500'** expect vectoring.

Radio Communication Failure:
Climb straight ahead to **8000'**, when passing **4500'** turn right to **TBS**, hold as published, when ready make new approach (ILS y or LOC y or VOR).



Straight in Approach	A B C D
OCA(H)	**2280** (700)

Timing is not authorised for defining the MAPT

DME IVP NM	9	8	7	6	5	4	3	2	1
DME TBS NM	9.5	8.5	7.5	6.5	5.5	4.5	3.5	2.5	1.5
ALT (HGT) ft	**4966** (3388)	**4595** (3017)	**4224** (2646)	**3853** (2275)	**3482** (1904)	**3111** (1533)	**2740** (1162)	**2369** (791)	**1998** (420)

Changes: Chart reissued

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RNAV Transition Coding Tables - RWY 13R (LOCz)

LATVA transition

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	LATVA	-	41°49'00.0"N 044°34'45.0"E	-	-	-	+A8000	-230	RNAV1
TF	NAMME	-	41°53'08.8"N 044°40'33.6"E	40° (46.6°)	6	-	+A7000	-210	RNAV1

DANQI transition

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	DANQI	-	41°56'11.3"N 044°36'40.5"E	-	-	-	+A7000	-230	RNAV1
TF	NAMME	-	41°53'08.8"N 044°40'33.6"E	129° (135.8°)	4.2	-	+A7000	-210	RNAV1

UDVIN transition

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	UDVIN	-	41°57'17.3"N 044°46'22.9"E	-	-	-	+A7000	-230	RNAV1
TF	NAMME	-	41°53'08.8"N 044°40'33.6"E	219° (226.2°)	6	-	+A7000	-210	RNAV1

RNAV Holding Coding Table

Fix Identifier	Inbound course °MAG(°True)	Time (min)	Turn Direction	Min alt.	Max alt.	Speed limit (kt)	Mag. VAR	Navigation Specification
DANQI	96° (103.0°)	1.0	R	A9000	FL140	230	-7°	RNAV1

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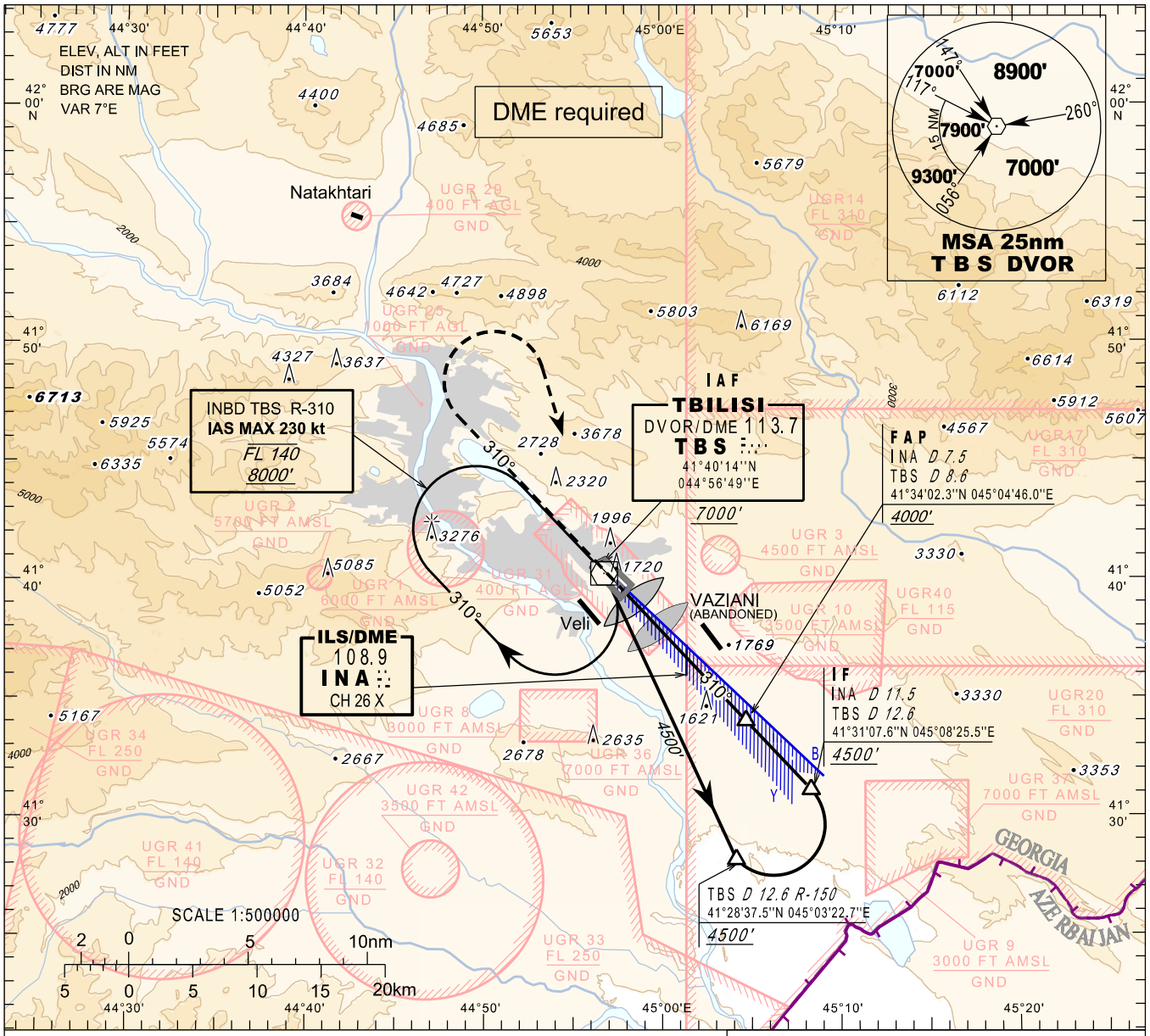
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV. 1578'
HEIGHTS RELATED TO
THR RWY 31L - ELEV 1513'

TRANSITION ALTITUDE 11000'

APP	134.600
TWR	119.000 (Primary)
	128.000 (Secondary)
ATIS	132.800

TBILISI/Tbilisi (UGTB)
ILS y
RWY 31L



MISSED APPROACH

Normal:
Climb straight ahead to **7000'**, when passing **6000'** turn right to **TBS**, then as directed by **ATC**.

TBS DVOR Unserviceable:
Climb straight ahead to **7000'**, when passing **6000'** turn right heading **170**, expect vectoring.

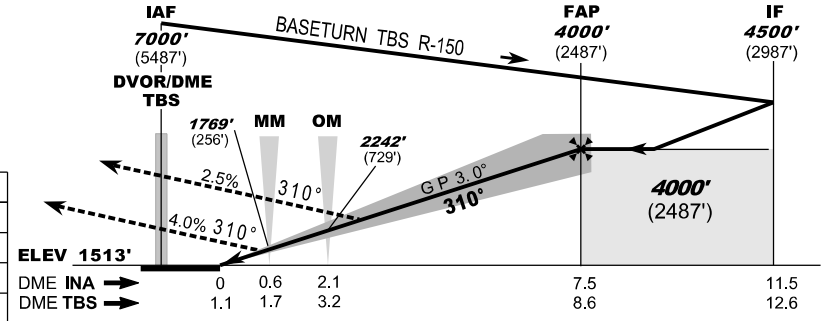
Radio Communication Failure:
Climb straight ahead to **8000'**, when passing **6000'** turn right to **TBS**, hold as published, when ready make new approach.

WARNING:

1. **DO NOT CONFUSE** TBILISI/Tbilisi airport with VAZIANI military aerodrome located 4 nm south-east of TBILISI/Tbilisi airport.
2. Possibility of **WIND SHEAR** and **TURBULENCE** on final (including short final) should be considered during strong winds due to local topography.

ILS RDH 54'

Straight in Approach			
Missed APCH climb gradient	OCA(H)		
	A B	C	D
2.5%	**2376** (863)	**2394** (881)	**2403** (890)
4.0%	**1703** (190)	**1713** (200)	**1723** (210)



DME INA NM	7	6	5	4	3	2	1
DME TBS NM	8.1	7.1	6.1	5.1	4.1	3.1	2.1
ALT (HGT) ft	**3839** (2326)	**3510** (1997)	**3181** (1668)	**2855** (1342)	**2530** (1017)	**2208** (695)	**1886** (373)

Changes: Chart reissued

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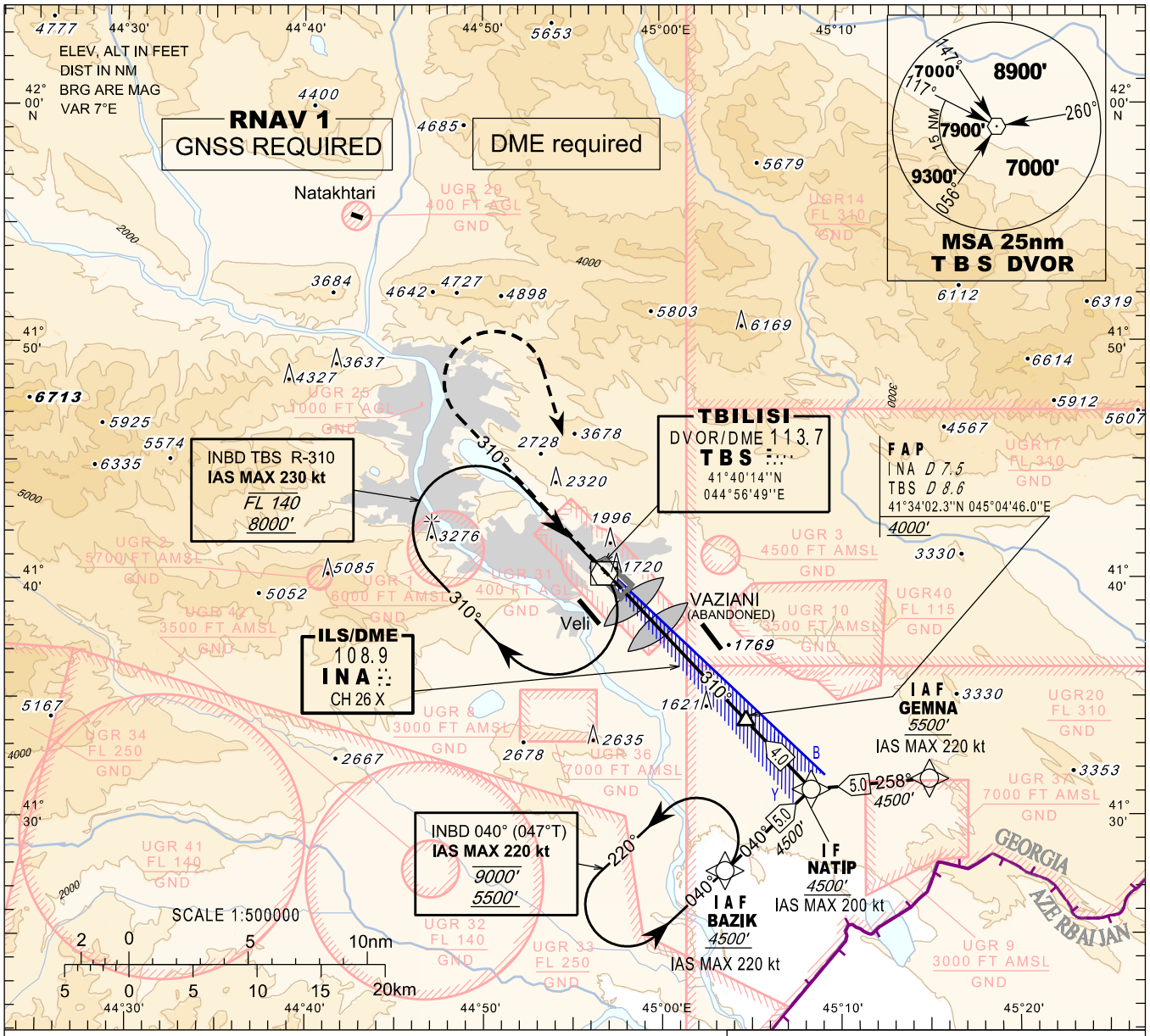
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV. 1578'
HEIGHTS RELATED TO
THR RWY 31L - ELEV 1513'

TRANSITION ALTITUDE 11000'

APP	134.600
TWR	119.000 (Primary)
	128.000 (Secondary)
ATIS	132.800

TBILISI/Tbilisi (UGTB)
ILS z
RWY 31L



MISSED APPROACH

Normal:
Climb straight ahead to **7000'**, when passing **6000'** turn right to **TBS**, then as directed by **ATC**.

TBS DVOR Unserviceable:
Climb straight ahead to **7000'**, when passing **6000'** turn right heading **170**, expect vectoring.

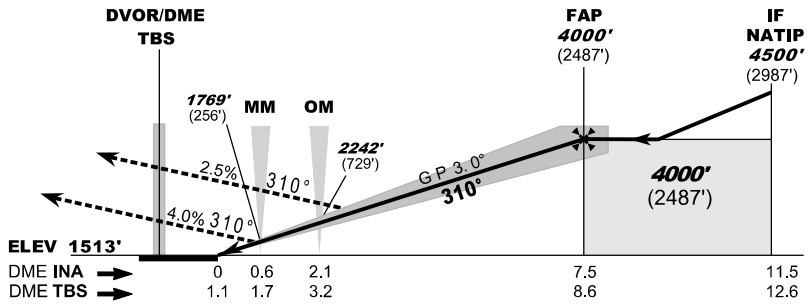
Radio Communication Failure:
Climb straight ahead to **8000'**, when passing **6000'** turn right to **TBS**, hold as published, when ready make new approach (ILS y or LOC y or VOR).

WARNING:

1. **DO NOT CONFUSE** TBILISI/Tbilisi airport with VAZIANI military aerodrome located 4 nm south-east of TBILISI/Tbilisi airport.
2. Possibility of **WIND SHEAR** and **TURBULENCE** on final (including short final) should be considered during strong winds due to local topography.

ILS RDH 54'

Straight in Approach			
Missed APCH climb gradient	OCA(H)		
	A B	C	D
2.5%	**2376** (863)	**2394** (881)	**2403** (890)
4.0%	**1703** (190)	**1713** (200)	**1723** (210)



DME INA NM	7	6	5	4	3	2	1
DME TBS NM	8.1	7.1	6.1	5.1	4.1	3.1	2.1
ALT (HGT) ft	**3839** (2326)	**3510** (1997)	**3181** (1668)	**2855** (1342)	**2530** (1017)	**2208** (695)	**1886** (373)

Changes: Chart reissued

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RNAV Transition Coding Tables - RWY 31L (ILSz)

BAZIK transition									
Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	BAZIK	-	41°27'41.5"N 045°03'35.1"E	-	-	-	+A4500	-220	RNAV1
TF	NATIP	-	41°31'07.6"N 045°08'25.5"E	40° (46.5°)	5	-	+A4500	-200	RNAV1

GEMNA transition									
Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	GEMNA	-	41°31'34.7"N 045°15'03.4"E	-	-	-	+A5500	-220	RNAV1
TF	NATIP	-	41°31'07.6"N 045°08'25.5"E	258° (264.9°)	5	-	+A4500	-200	RNAV1

RNAV Holding Coding Table								
Fix Identifier	Inbound course °MAG(°True)	Time (min)	Turn Direction	Min alt.	Max alt.	Speed limit (kt)	Mag. VAR	Navigation Specification
BAZIK	40° (47.0°)	1.0	L	A5500	A9000	220	-7°	RNAV1

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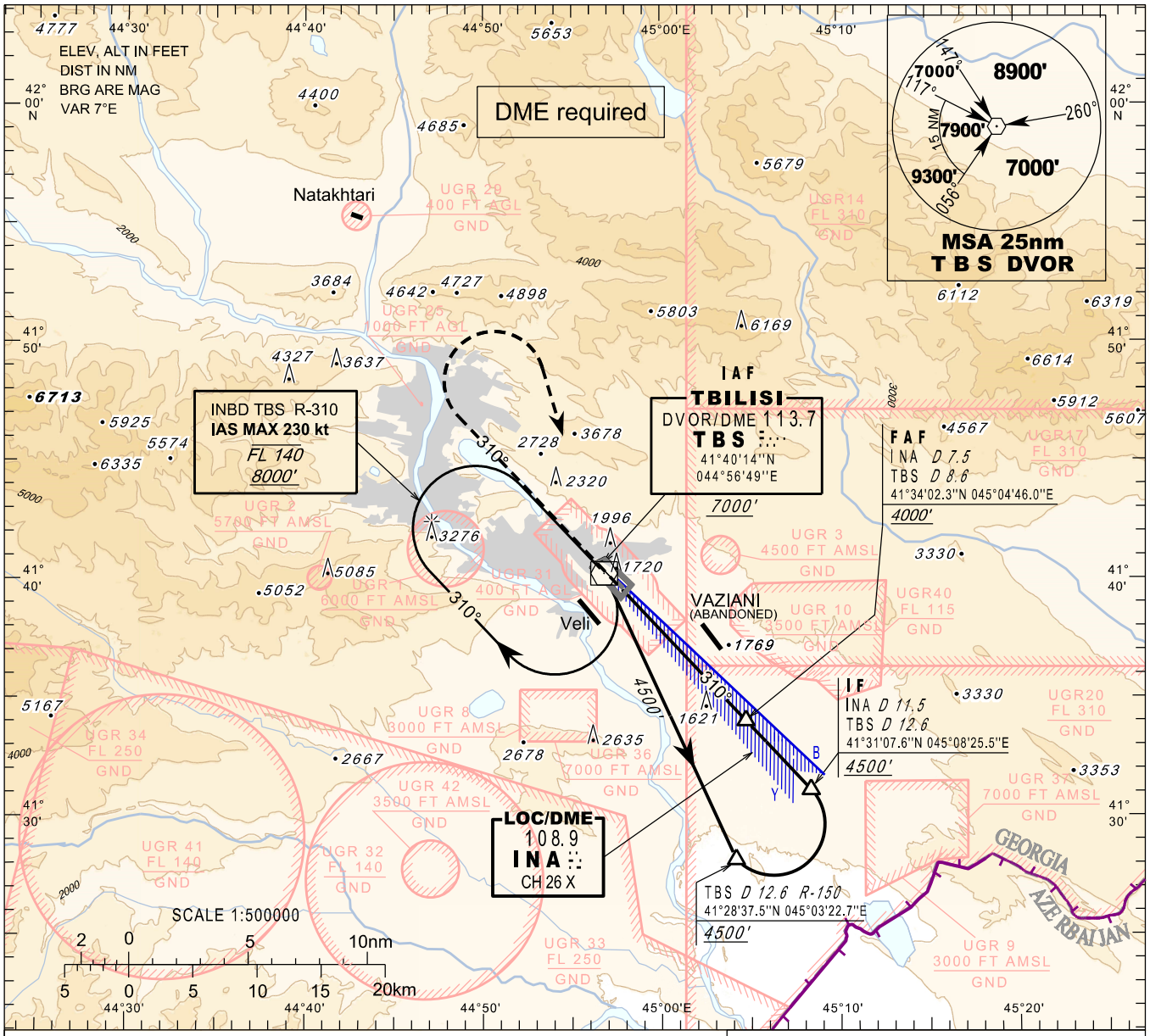
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV. 1578'
HEIGHTS RELATED TO
THR RWY 31L - ELEV 1513'

TRANSITION ALTITUDE 11000'

APP	134.600
TWR	119.000 (Primary)
	128.000 (Secondary)
ATIS	132.800

TBILISI/Tbilisi (UGTB)
LOC y
RWY 31L



MISSED APPROACH

Normal:
Climb straight ahead to **7000'**, when passing **6000'** turn right to **TBS**, then as directed by **ATC**.

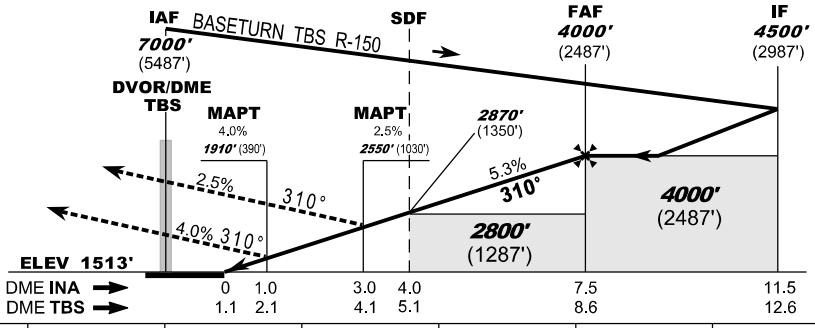
TBS DVOR Unserviceable:
Climb straight ahead to **7000'**, when passing **6000'** turn right heading **170**, expect vectoring.

Radio Communication Failure:
Climb straight ahead to **8000'**, when passing **6000'** turn right to **TBS**, hold as published, when ready make new approach.

Timing is not authorised for defining the MAPT

W A R N I N G :

1. **DO NOT CONFUSE** TBILISI/Tbilisi airport with VAZIANI military aerodrome located 4 nm south-east of TBILISI/Tbilisi airport.
2. Possibility of **WIND SHEAR** and **TURBULENCE** on final (including short final) should be considered during strong winds due to local topography.



Straight in Approach	
Missed APCH climb gradient	**OCA(H)** A B C D
2.5%	**2550** (1030)
4.0%	**1910** (390)

DME INA NM	7	6	5	4	3	2	1
DME TBS NM	8.1	7.1	6.1	5.1	4.1	3.1	2.1
ALT (HGT) ft	**3837** (2324)	**3512** (1999)	**3187** (1674)	**2862** (1349)	**2537** (1024)	**2212** (699)	**1887** (374)

Changes: Chart reissued

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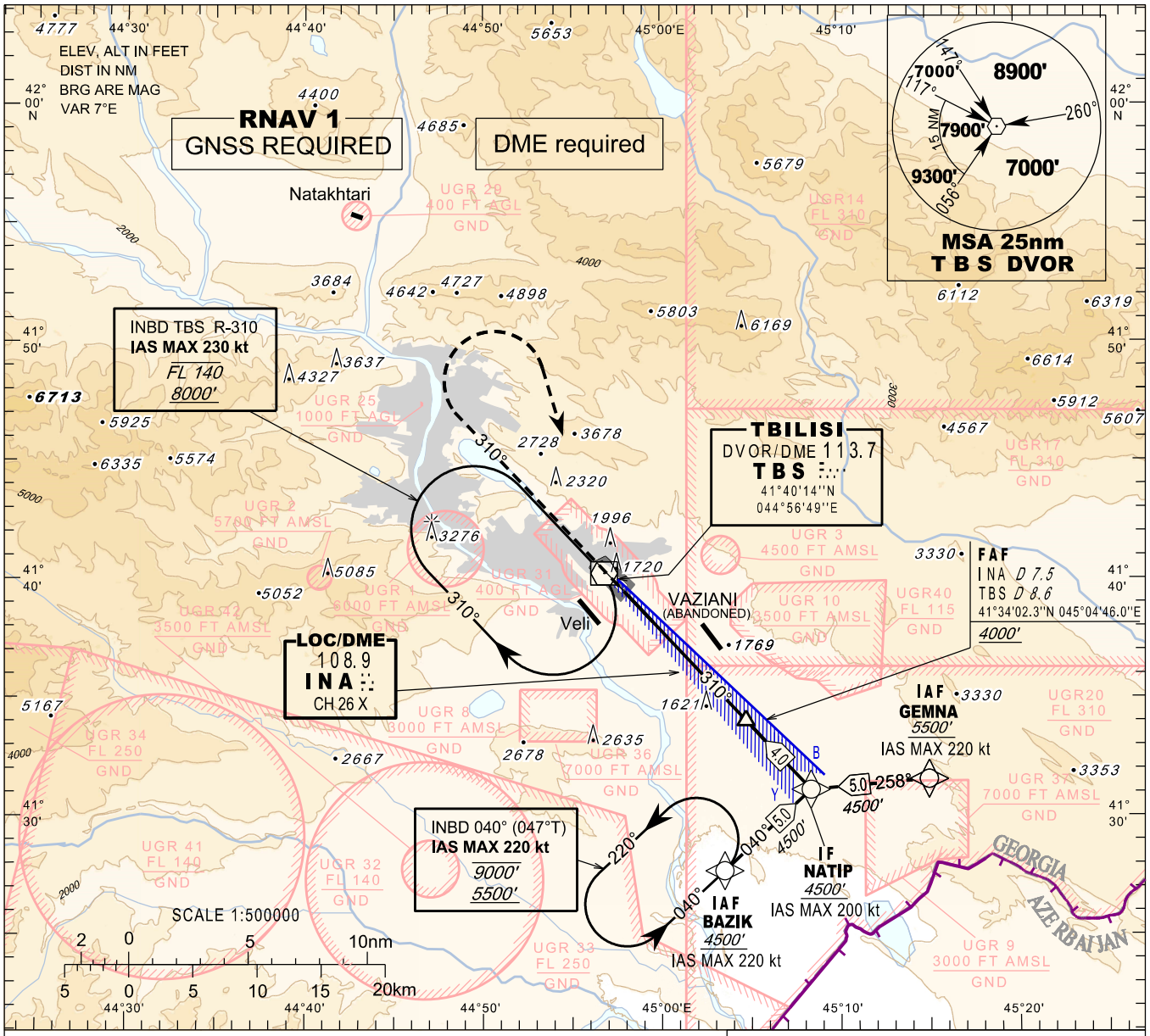
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV. 1578'
HEIGHTS RELATED TO
THR RWY 31L - ELEV 1513'

TRANSITION ALTITUDE 11000'

APP	134.600
TWR	119.000 (Primary)
	128.000 (Secondary)
ATIS	132.800

TBILISI/Tbilisi (UGTB)
LOC z
RWY 31L



MISSED APPROACH

Normal:
Climb straight ahead to **7000'**, when passing **6000'** turn right to **TBS**, then as directed by **ATC**.

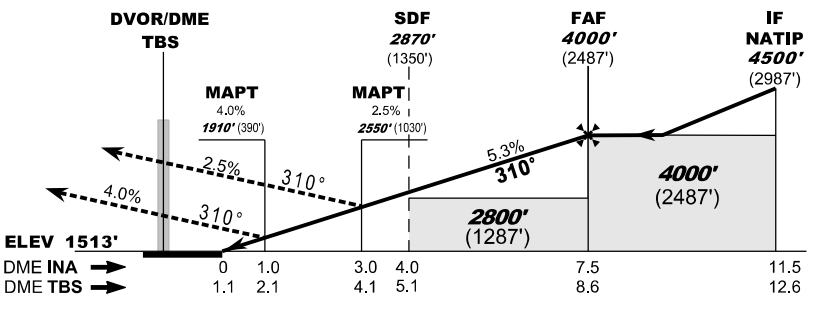
TBS DVOR Unserviceable:
Climb straight ahead to **7000'**, when passing **6000'** turn right heading **170**, expect vectoring.

Radio Communication Failure:
Climb straight ahead to **8000'**, when passing **6000'** turn right to **TBS**, hold as published, when ready make new approach (ILS y or LOC y or VOR).

Timing is not authorised for defining the MAPT

WARNING:

1. **DO NOT CONFUSE** TBILISI/Tbilisi airport with VAZIANI military aerodrome located 4 nm south-east of TBILISI/Tbilisi airport.
2. Possibility of **WIND SHEAR** and **TURBULENCE** on final (including short final) should be considered during strong winds due to local topography.



Straight in Approach	
Missed APCH climb gradient	**OCA(H)** A B C D
2.5%	**2550** (1030)
4.0%	**1910** (390)

DME INA NM	7	6	5	4	3	2	1
DME TBS NM	8.1	7.1	6.1	5.1	4.1	3.1	2.1
ALT (HGT) ft	**3837** (2324)	**3512** (1999)	**3187** (1674)	**2862** (1349)	**2537** (1024)	**2212** (699)	**1887** (374)

Changes: Chart reissued

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RNAV Transition Coding Tables - RWY 31L (LOCz)

BAZIK transition

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	BAZIK	-	41°27'41.5"N 045°03'35.1"E	-	-	-	+A4500	-220	RNAV1
TF	NATIP	-	41°31'07.6"N 045°08'25.5"E	40° (46.5°)	5	-	+A4500	-200	RNAV1

GEMNA transition

Path Terminator	Waypoint			Course/Track °MAG(°True)	DIST NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed kt	
IF	GEMNA	-	41°31'34.7"N 045°15'03.4"E	-	-	-	+A5500	-220	RNAV1
TF	NATIP	-	41°31'07.6"N 045°08'25.5"E	258° (264.9°)	5	-	+A4500	-200	RNAV1

RNAV Holding Coding Table

Fix Identifier	Inbound course °MAG(°True)	Time (min)	Turn Direction	Min alt.	Max alt.	Speed limit (kt)	Mag. VAR	Navigation Specification
BAZIK	40° (47.0°)	1.0	L	A5500	A9000	220	-7°	RNAV1

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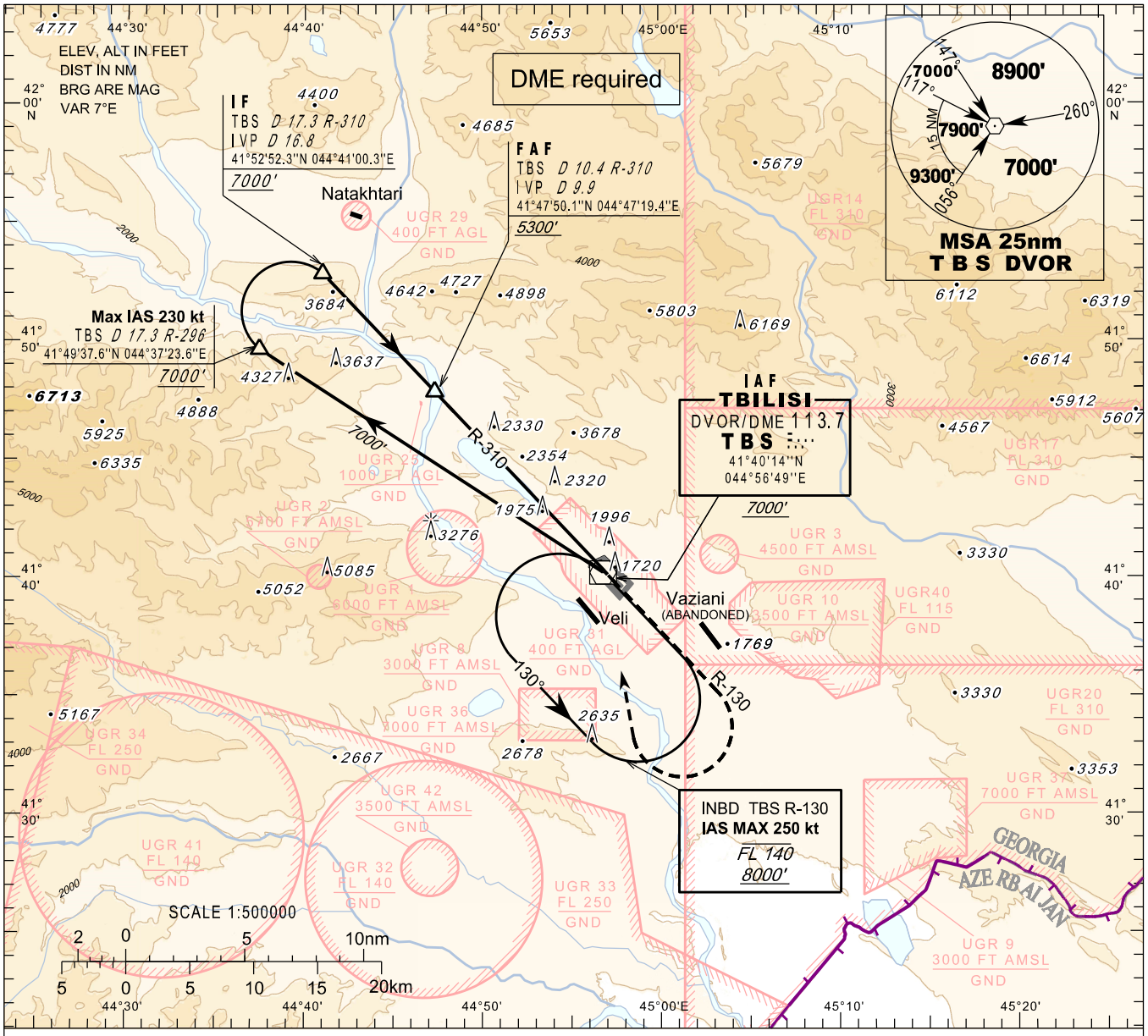
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV. 1578'
HEIGHTS RELATED TO
THR RWY 13R - ELEV 1578'

TRANSITION ALTITUDE 11000'

APP	134.600
TWR	119.000 (Primary)
	128.000 (Secondary)
ATIS	132.800

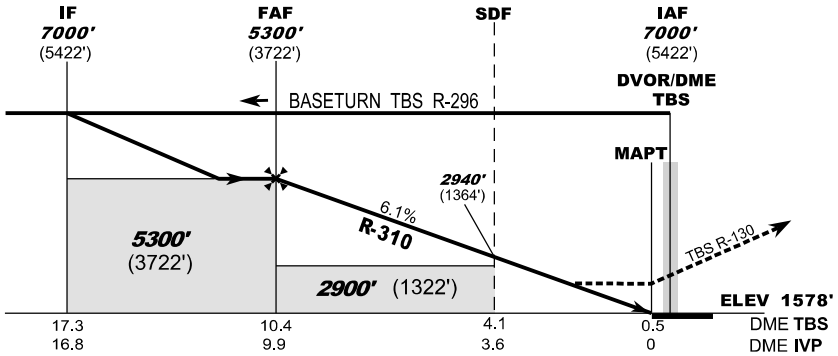
TBILISI/Tbilisi (UGTB)
VOR
RWY 13R



MISSED APPROACH

Normal:
Climb on **R-130 TBS** to **7000'**, when passing **4500'** turn right to **TBS**. Then as directed by **ATC**.

Radio Communication Failure:
Climb on **R-130 TBS** to **8000'**, when passing **4500'** turn right to **TBS** and hold as published, when ready make new approach.



Straight-in Approach	A	B	C	D
OCA(H)	**2580** (1000)			

Timing is not authorised for defining the MAPT

DME TBS NM	10	9	8	7	6	5	4	3	2	1
DME IVP NM	9.5	8.5	7.5	6.5	5.5	4.5	3.5	2.5	1.5	0.5
ALT (HGT) ft	**5142** (3564)	**4771** (3193)	**4400** (2822)	**4029** (2451)	**3658** (2080)	**3287** (1709)	**2916** (1338)	**2545** (967)	**2174** (596)	**1802** (224)

Changes: Chart reissued

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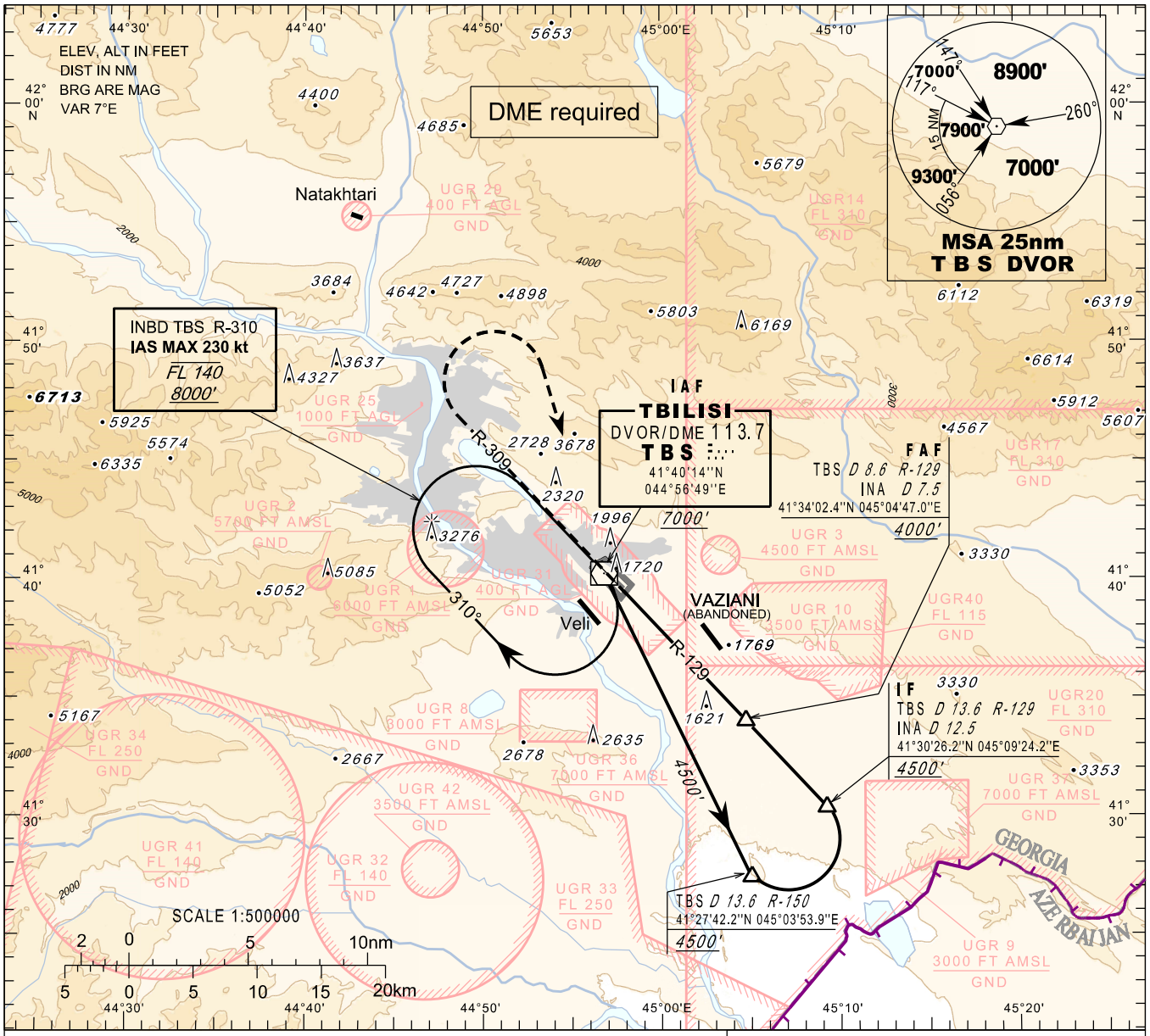
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV. 1578'
HEIGHTS RELATED TO
THR RWY 31L - ELEV 1513'

TRANSITION ALTITUDE 11000'

APP	134.600
TWR	119.000 (Primary) 128.000 (Secondary)
ATIS	132.800

TBILISI/Tbilisi (UGTB)
VOR
RWY 31L



MISSED APPROACH

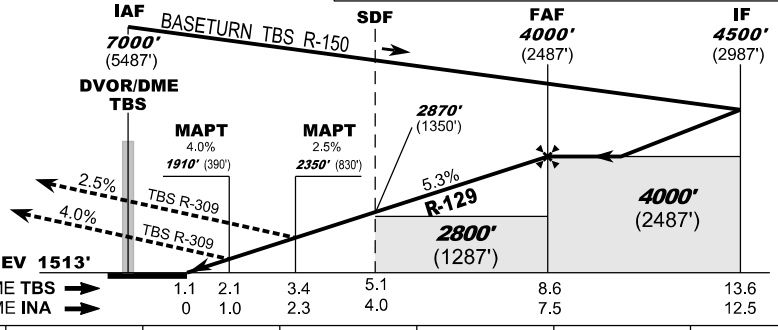
Normal:
Climb on **R-309 TBS** to **7000'**, when passing **6000'** turn right to **TBS**, then as directed by **ATC**.

Radio Communication Failure:
Climb on **R-309 TBS** to **8000'**, when passing **6000'** turn right to **TBS** and hold as published, when ready make new approach.

Timing is not authorised for defining the MAPT

WARNING:

1. **DO NOT CONFUSE** TBILISI/Tbilisi airport with VAZIANI military aerodrome located 4 nm south-east of TBILISI/Tbilisi airport.
2. Possibility of **WIND SHEAR** and **TURBULENCE** on final (including short final) should be considered during strong winds due to local topography.



Straight in Approach	
Missed APCH climb gradient	**OCA(H)** A B C D
2.5%	**2350** (830)
4.0%	**1910** (390)

DME TBS NM	8	7	6	5	4	3	2
DME INA NM	6.9	5.9	4.9	3.9	2.9	1.9	0.9
ALT (HGT) ft	**3807** (2294)	**3482** (1969)	**3157** (1644)	**2832** (1319)	**2507** (994)	**2182** (669)	**1857** (344)

Changes: Chart reissued

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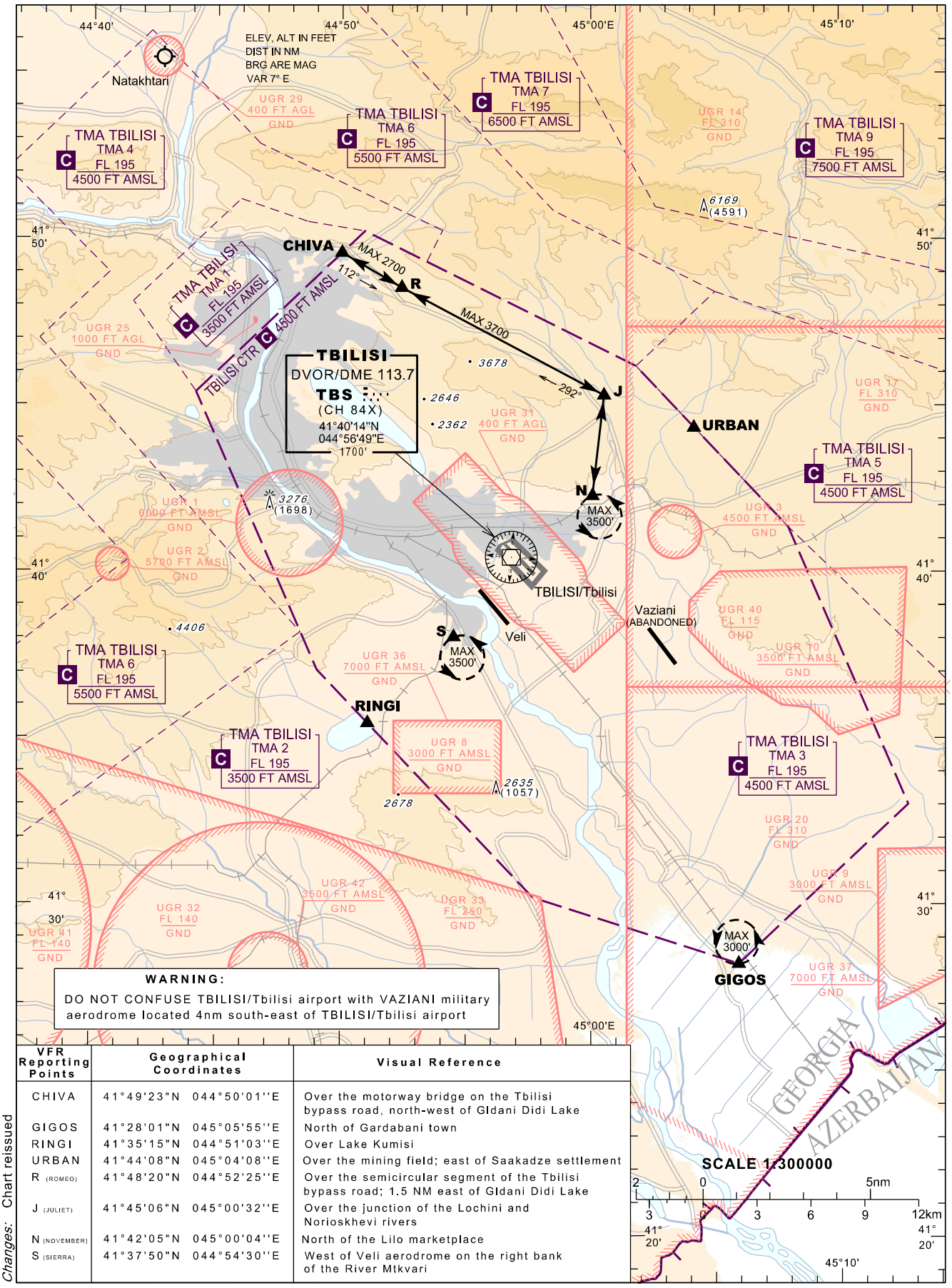
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VISUAL APPROACH CHART - ICAO

AERODROME ELEV. 1578'
HEIGHTS RELATED TO AD ELEV

APP 134.600
TWR 119.000 (Primary)
128.000 (Secondary)

TBILISI/Tbilisi (UGTB)



WARNING:
DO NOT CONFUSE TBILISI/Tbilisi airport with VAZIANI military aerodrome located 4nm south-east of TBILISI/Tbilisi airport

VFR Reporting Points	Geographical Coordinates	Visual Reference
CHIVA	41°49'23"N 044°50'01"E	Over the motorway bridge on the Tbilisi bypass road, north-west of GIdani Didi Lake
GIGOS	41°28'01"N 045°05'55"E	North of Gardabani town
RINGI	41°35'15"N 044°51'03"E	Over Lake Kumisi
URBAN	41°44'08"N 045°04'08"E	Over the mining field; east of Saakadze settlement
R (ROMEO)	41°48'20"N 044°52'25"E	Over the semicircular segment of the Tbilisi bypass road; 1.5 NM east of GIdani Didi Lake
J (JULIET)	41°45'06"N 045°00'32"E	Over the junction of the Lochini and Norioskhevi rivers
N (NOVEMBER)	41°42'05"N 045°00'04"E	North of the Lilo marketplace
S (SIERRA)	41°37'50"N 044°54'30"E	West of Veli aerodrome on the right bank of the River Mtkvari

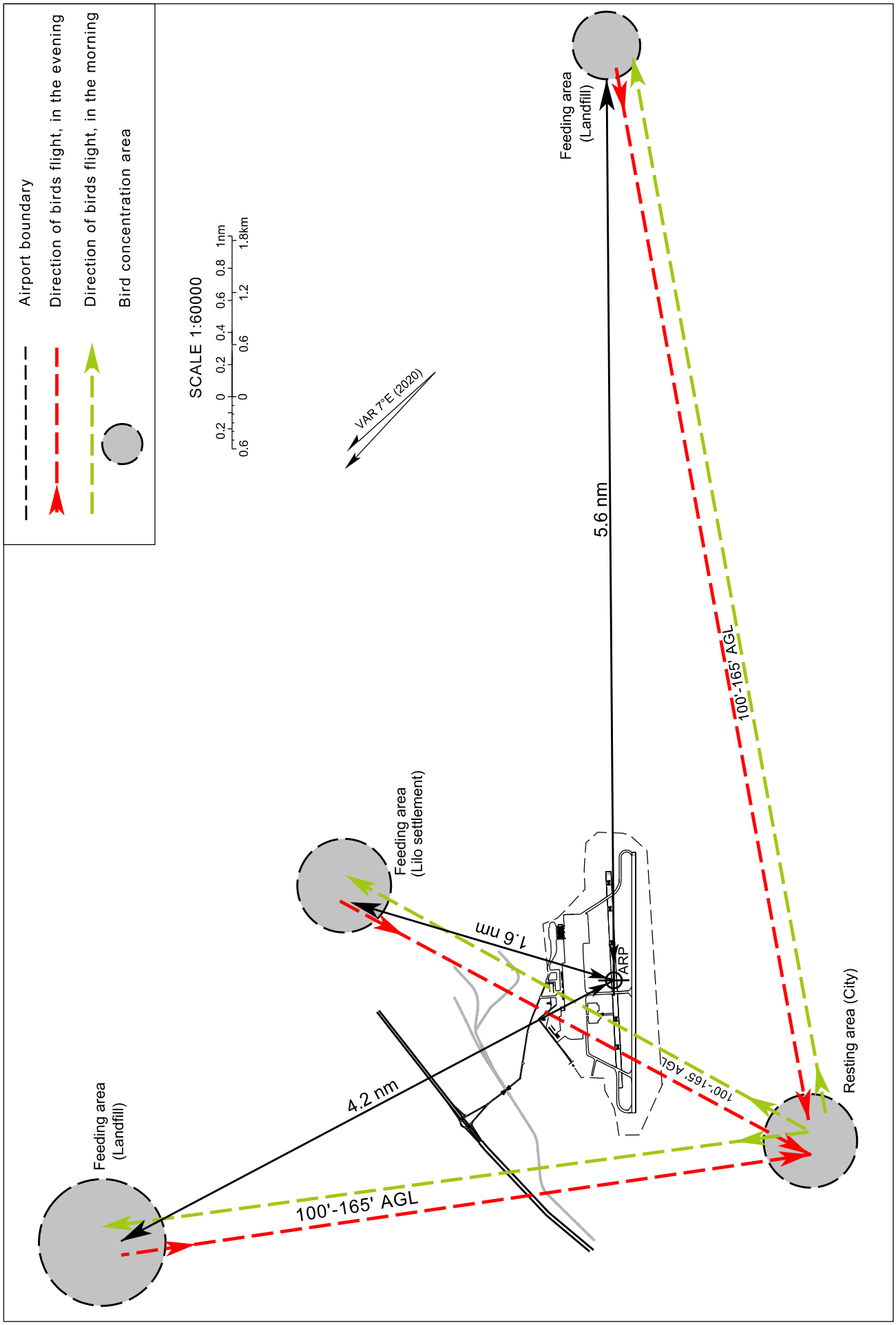
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BIRD CONCENTRATIONS AND MOVEMENT (INDEX CHART)

TBILISI/Tbilisi (UGTB)



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