INSTRUMENT APPROACH CHART - ICAO
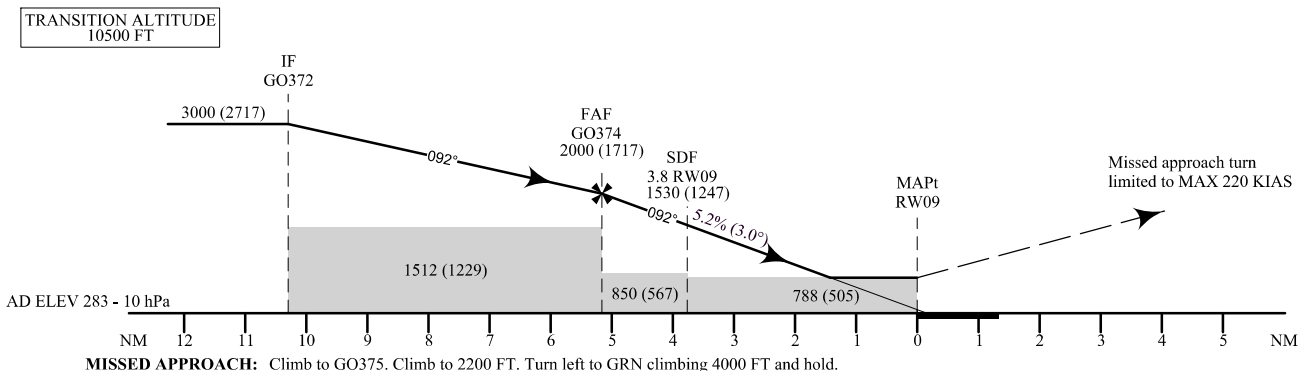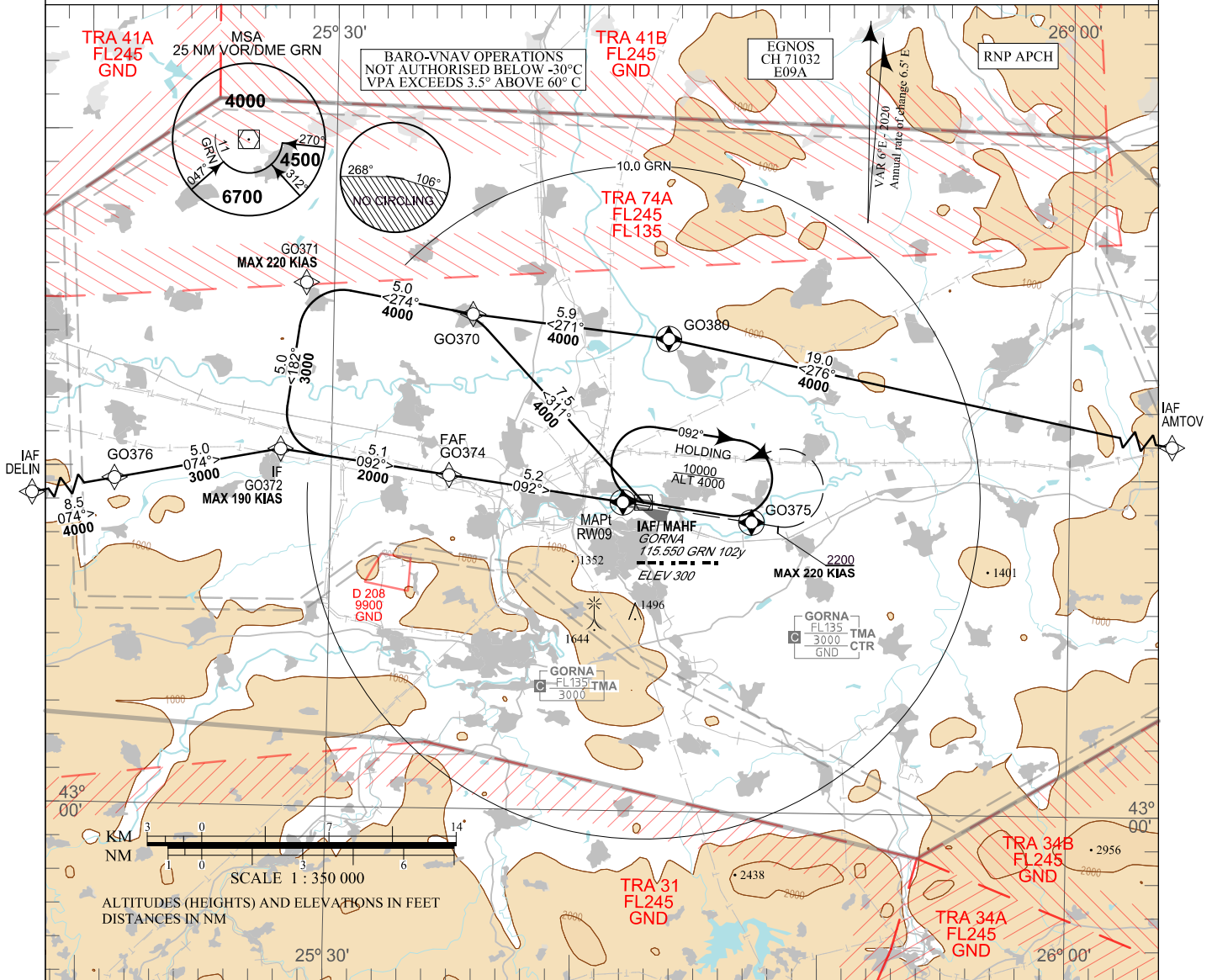
AERODROME ELEV   283 - 10 hPa
THR RWY 09 ELEV   283 - 10 hPa

OCH RELATED TO AD ELEV

TWR 133.500   ATIS 127.130
124.500
246.825
121.500
243.000

GORNA ORYAHOVITSA

RNP RWY 09

EGNOS
CH 71032
E09A

RNP APCH

BARO-VNAV OPERATIONS
NOT AUTHORISED BELOW -30°C
VPA EXCEEDS 3.5° ABOVE 60° C

TRA 41A
FL245
GND

MSA
25 NM VOR/DME GRN

25° 30'

TRA 41B
FL245
GND

26° 00'

VAR 6°E - 2020
Annual rate of change 6.5' E

4000

270°
4500
047° / 11 GRN / 312°

6700

268°   106°
NO CIRCLING

10.0 GRN

TRA 74A
FL245
FL135

GO371
MAX 220 KIAS

5.0
<274°
4000

5.9
<271°
4000

GO380

19.0
<276°
4000

GO370

5.0
<182°
3000

7.5
<3.1°
4000

FAF
GO374

HOLDING
092°
10000
ALT 4000

GO376

5.0
074°>
3000

5.1
092°>
2000

5.2
092°>

IF
GO372
MAX 190 KIAS

GO375

MAX 220 KIAS

2200

IAF
DELIN

8.5
074°>
4000

MAPt
RW09

IAF/ MAHF
GORNA
115.550 GRN 102y
ELEV 300

·1352

·1401

IAF
AMTOV

D 208
9900
GND

·1496

·1644

GORNA
FL135
3000
GND   TMA CTR

GORNA
FL135
3000   TMA

KM
NM

43°
00'

SCALE 1 : 350 000

ALTITUDES (HEIGHTS) AND ELEVATIONS IN FEET
DISTANCES IN NM

25° 30'

·2438

TRA 31
FL245
GND

·2956

TRA 34B
FL245
GND

43°
00'

TRA 34A
FL245
GND

26° 00'

TRANSITION ALTITUDE
10500 FT

IF
GO372

FAF
GO374
2000 (1717)

SDF
3.8 RW09
1530 (1247)

MAPt
RW09

Missed approach turn
limited to MAX 220 KIAS

3000 (2717)

092°

092° 5.2% (3.0°)

1512 (1229)

850 (567)

788 (505)

AD ELEV 283 - 10 hPa

NM 12 11 10 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 NM

MISSED APPROACH: Climb to GO375. Climb to 2200 FT. Turn left to GRN climbing 4000 FT and hold.

OCA (OCH)		A	B	C	D
LPV	m	140 (54)	144 (58)	146 (60)	150 (64)
	ft	459 (176)	471 (188)	479 (196)	490 (207)
LNAV/ VNAV	m	200 (115)	200 (115)	210 (120)	215 (130)
	ft	650 (370)	660 (380)	680 (400)	710 (420)
LNAV	m	245 (155)			
	ft	790 (510)			
Circling N of AD only	m	270 (185)	285 (200)	321 (235)	321 (235)
	ft	890 (600)	940 (650)	1060 (780)	1060 (780)

DIST THR NM / km	5 / 9.3	4 / 7.4	3 / 5.6	2 / 3.7
ALT (HGT) m	590 (505)	495 (410)	400 (310)	300 (215)
ALT (HGT) ft	1940 (1650)	1620 (1340)	1300 (1020)	990 (710)

GS		kt	60	80	100	120	140	160	180
FAF - MAPt 5.2 NM	min:sec		5:12	3:54	3:07	2:36	2:14	1:57	1:44
Rate of descent	ft/min		316	421	527	632	737	843	948

Timing is not authorized for defining MAPt

Instrument approach procedures

P/T	WPT ID	Flyover	Track MAG (GEO)	DIST NM	Turn Direction	Speed KT	ALT FT
From IAF AMTOV							
IF	AMTOV / IAF	-	-	-	-	-	-
TF	GO380	Yes	276°(281.1°T)	19.0	-	-	-
TF	GO370	-	271°(276.3°T)	5.9	-	-	-
TF	GO371	-	274°(279.9°T)	5.0	Left	220-	4000+
TF	GO372 / IF	-	182°(187.9°T)	5.0	Left	190-	3000+
TF	GO374 / FAF	-	092°(097.9°T)	5.1	-	-	2000+
TF	RW09 / MAPt	Yes	092°(098.0°T)	5.2	-	-	-
DF	GO375	Yes	-	-	-	-	-
CA	-	-	092°(098.0°T)	-	Left	220-	2200+
DF	GRN / MAHF	-	-	-	-	-	4000
From IAF DELIN							
IF	DELIN / IAF	-	-	-	-	-	-
TF	GO376	-	074°(079.1°T)	8.5	-	-	4000+
TF	GO372 / IF	-	074°(079.2°T)	5.0	Right	190-	3000+
TF	GO374 / FAF	-	092°(097.9°T)	5.1	-	-	2000+
TF	RW09 / MAPt	Yes	092°(098.0°T)	5.2	-	-	-
DF	GO375	Yes	-	-	-	-	-
CA	-	-	092°(098.0°T)	-	Left	220-	2200+
DF	GRN / MAHF	-	-	-	-	-	4000
From IAF GRN							
IF	GRN / IAF	-	-	-	-	-	-
TF	GO370	-	311°(316.9°T)	7.5	Left	-	-
TF	GO371	-	274°(279.8°T)	5.0	Left	220-	4000+
TF	GO372 / IF	-	182°(187.9°T)	5.0	Left	190-	3000+
TF	GO374 / FAF	-	092°(097.9°T)	5.1	-	-	2000+
TF	RW09 / MAPt	Yes	092°(098.0°T)	5.2	-	-	-
DF	GO375	Yes	-	-	-	-	-
CA	-	-	092°(098.0°T)	-	Left	220-	2200+
DF	GRN / MAHF	-	-	-	-	-	4000

Holding

P/T	WPT ID	Flyover	Track MAG (GEO)	Time	Turn Direction	Speed KT	ALT FT
HM	GRN	Yes	272°(278.0°T)	1 min	Right	220-	4000+ 10000-

See page LBGO AD 2 - 61.1 for waypoint coordinates

SBAS FAS Data Block Gorna Oryahovitsa RNP RWY 09

Data Field	Data Value
Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LBGO
Runway	09
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E09A
LTP/FTP Latitude	430910.7090N
LTP/FTP Longitude	0254152.8140E
LTP/FTP Ellipsoidal Height (m)	127.0
FPAP Latitude	430900.5000N
Delta FPAP Latitude (seconds)	-10.2090
FPAP Longitude	0254331.2750E
Delta FPAP Longitude (seconds)	98.4610
Threshold Crossing Height (ft)	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (m)	105.00
Length Offset (m)	0
HAL (m)	40.0
VAL (m)	50.0
CRC Value	4E61DC43
Data Block Hexadecimal Representation	10 0F 07 02 0C 09 00 00 01 39 30 05 6A ED 84 12 5C 44 07 0B F6 18 3E B0 FF 3A 01 03 F4 01 2C 01 64 00 C8 FA 4E 61 DC 43

Required Additional Data (not CRC wrapped)

Data Field	Data Value
ICAO Code	LB
LTP/FTP Orthometric Height (m)	86.3

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