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Terminal Charts For UUBC

Revision Letter For Cycle 13-2016

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Notebook

General Information

Location: KALUGA RUS
ICAO/IATA: UUBC / KLF
Lat/Long: N54° 32.92', E036° 22.28'
Elevation: 666 ft

Airport Use: Public
Daylight Savings: Not Observed
UTC Conversion: -3:00 = UTC
Magnetic Variation: 10.0° E

Fuel Types: Jet A-1
Customs: No
Airport Type: IFR
Landing Fee: Yes
Control Tower: Yes
Jet Start Unit: No
LLWS Alert: No
Beacon: No

Sunrise: 0058 Z
Sunset: 1814 Z

Runway Information

Runway: 13
Length x Width: 7218 ft x 148 ft
Surface Type: asphalt
TDZ-Elev: 666 ft
Lighting: Edge, ALS

Runway: 31
Length x Width: 7218 ft x 148 ft
Surface Type: asphalt
TDZ-Elev: 620 ft
Lighting: Edge, ALS

Communication Information

Kaluga Tower: 120.300 Non-English
Kaluga Tower: 129.000 Secondary Non-English

UUBC
GRABTSEVO

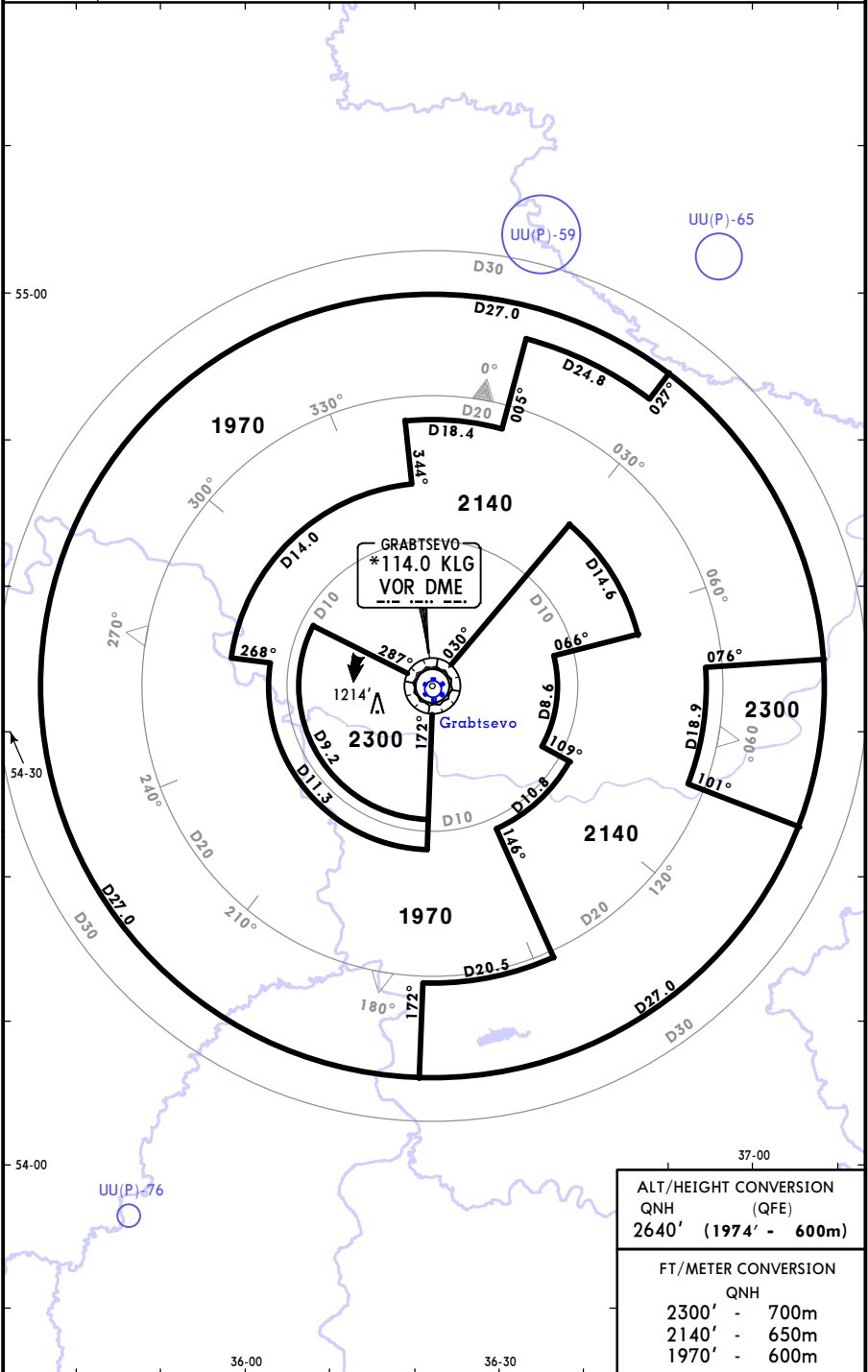
JEPPESSEN
6 NOV 15 (10-1R) Eff 12 Nov

KALUGA, RUSSIA

RADAR MINIMUM ALTITUDES

Apt Elev
666'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (1974')

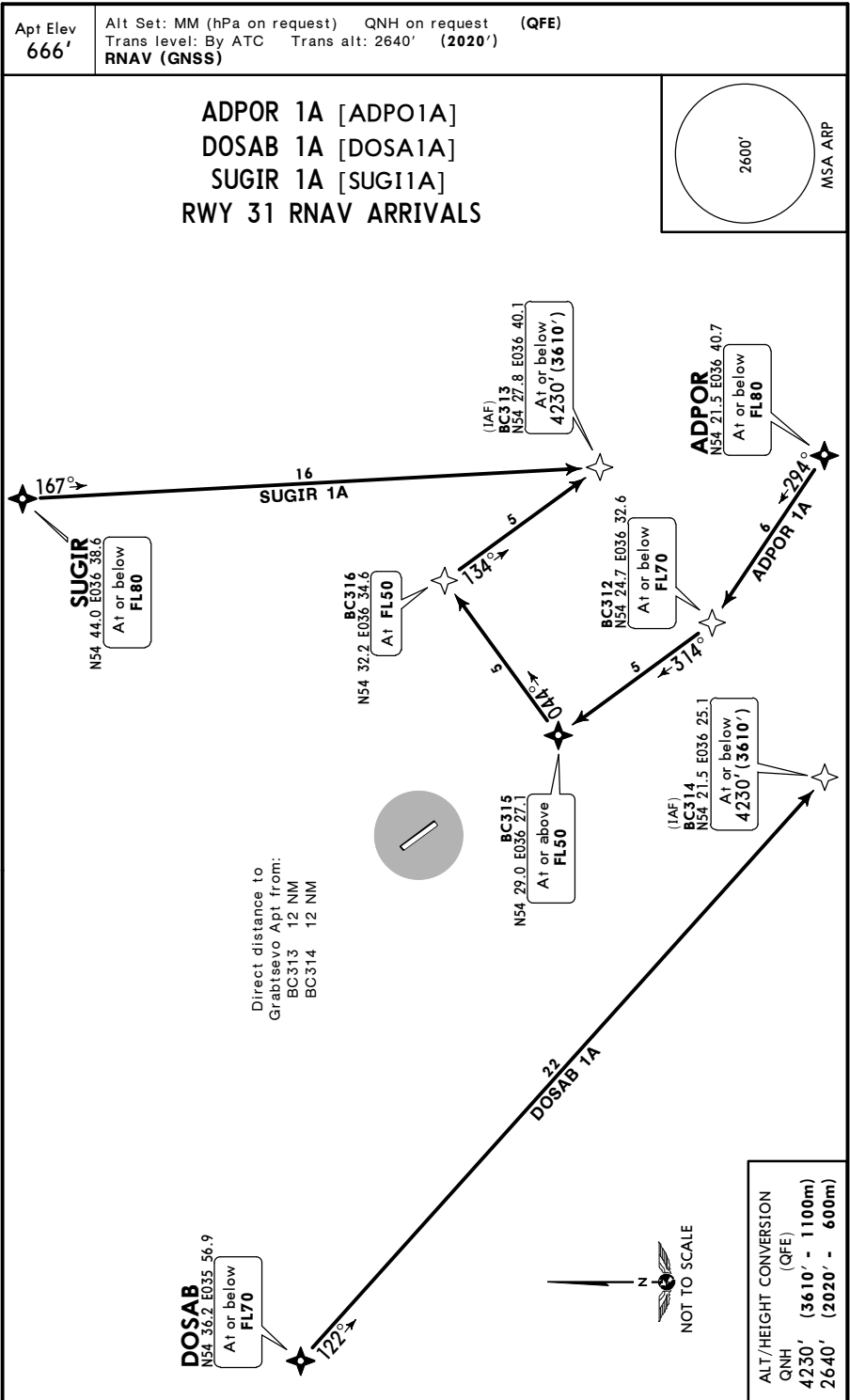


ALT/HEIGHT CONVERSION	
QNH	(QFE)
2640'	(1974' - 600m)
FT/METER CONVERSION	
QNH	
2300'	- 700m
2140'	- 650m
1970'	- 600m

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JEPPesen
6 NOV 15 10-2 Eff 12 Nov

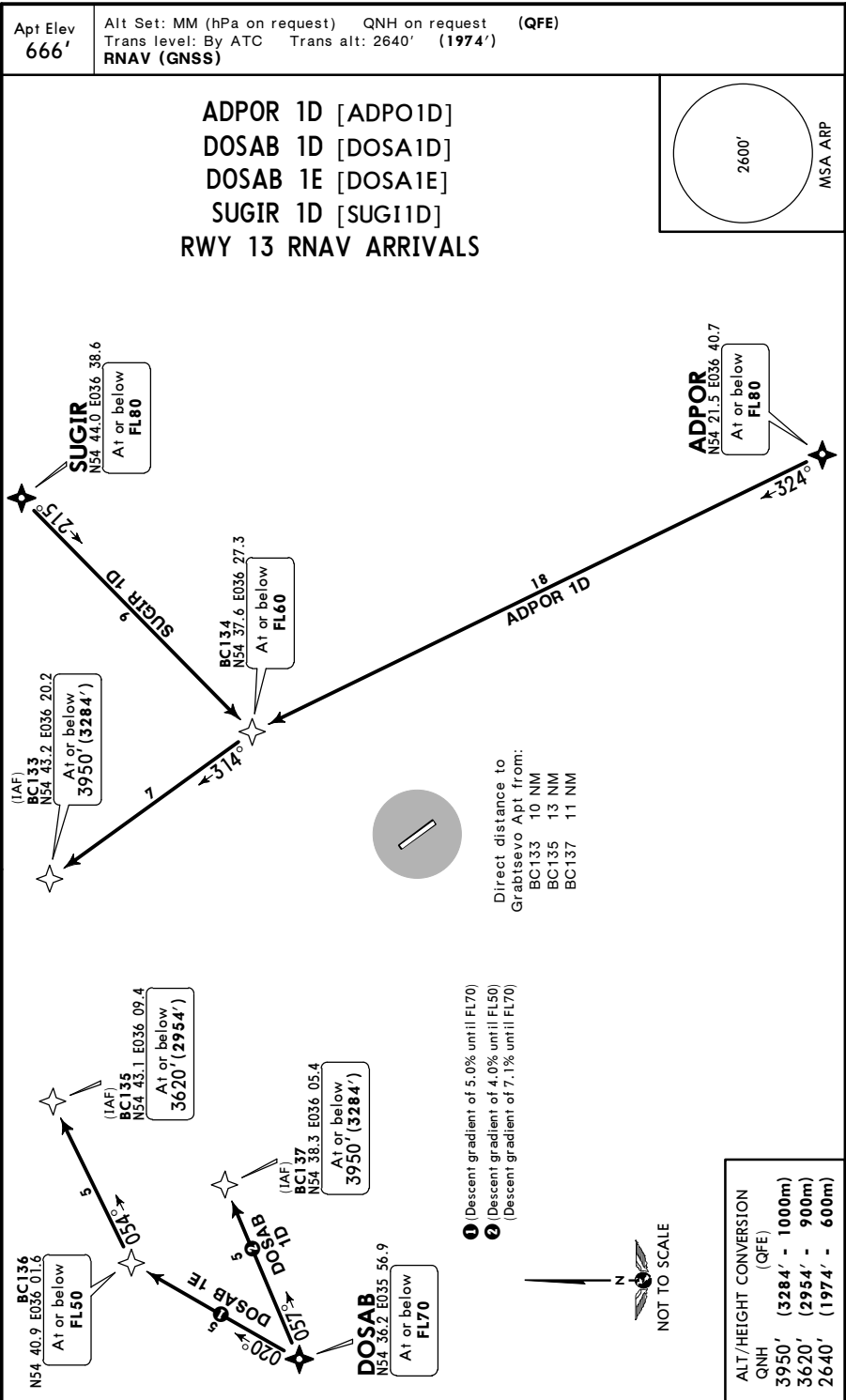
KALUGA, RUSSIA
RNAV STAR



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JEPPesen
6 NOV 15 (10-2A) Eff 12 Nov

KALUGA, RUSSIA
RNAV STAR



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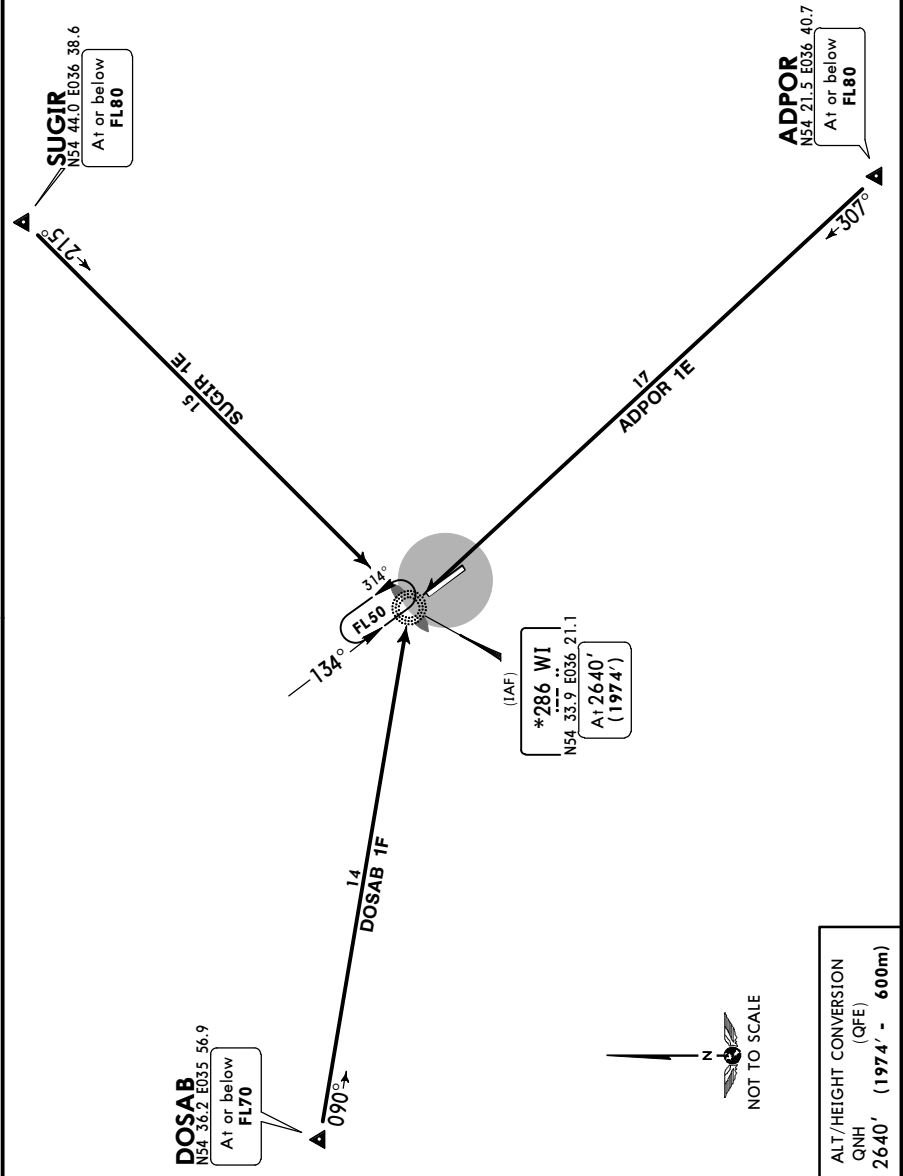
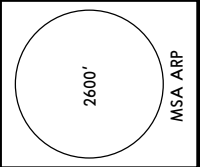
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GRABTSEVO

JEPPesen
27 NOV 15 (10-2C)

KALUGA, RUSSIA
STAR

Apt Elev 666'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: By ATC Trans alt: 2640' (1974')
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ADPOR 1E [ADPO1E]
DOSAB 1F [DOSA1F]
SUGIR 1E [SUGI1E]
RWY 13 ARRIVALS



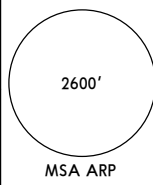
UUBC
GRABTSEVO

JEPPesen
6 NOV 15 (10-3) Eff 12 Nov

KALUGA, RUSSIA
RNAV SID

Apt Elev
666'

QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (2020')
1. RNAV (GNSS)
2. All turns shall be carried out with bank of 25°.

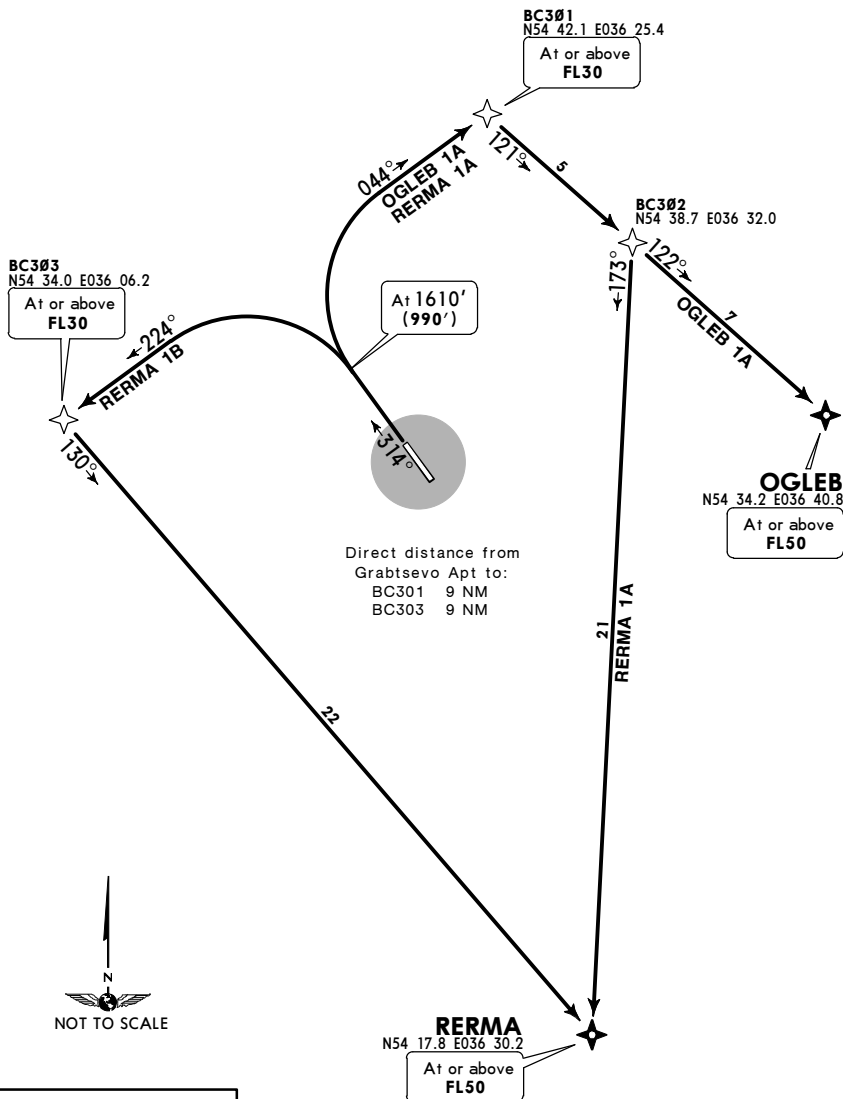


OGLEB 1A [OGLE1A]
RERMA 1A [RERM1A]

RERMA 1B [RERM1B]
BY ATC

RWY 31 RNAV DEPARTURES

SPEED: MAX 230 KT



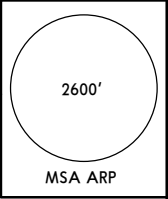
ALT/HEIGHT CONVERSION
QNH (QFE)
1610' (990' - 300m)
2640' (2020' - 600m)

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GRABTSEVO

JEPPesen
6 NOV 15 10-3A Eff 12 Nov

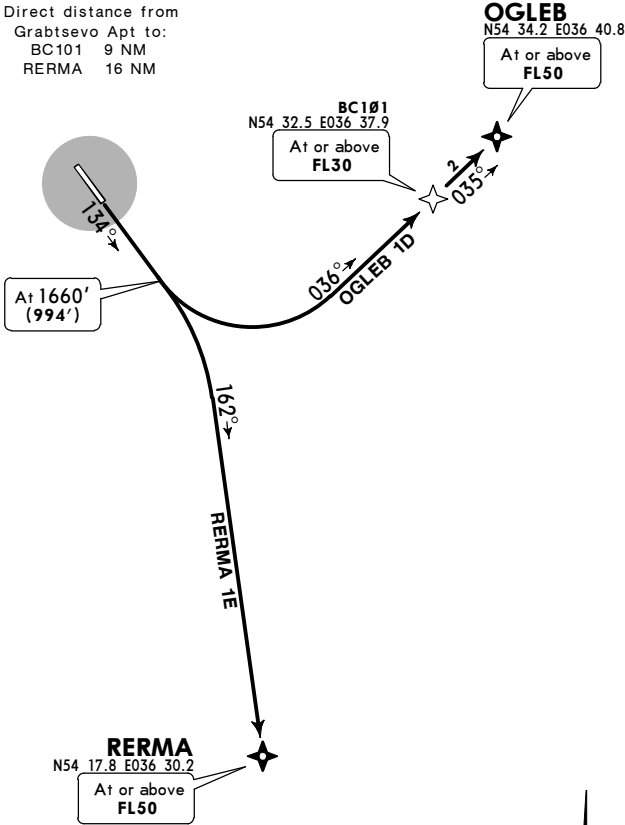
KALUGA, RUSSIA
RNAV SID

Apt Elev 666'
QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (1974')
1. RNAV (GNSS)
2. All turns shall be carried out with bank of 25°.



OGLEB 1D [OGLE1D]
RERMA 1E [RERM1E]
RWY 13 RNAV DEPARTURES
SPEED: MAX 230 KT

Direct distance from
Grabtsevo Apt to:
BC101 9 NM
RERMA 16 NM



These SIDs require minimum climb gradients
of
OGLEB 1D: 5.2%.
RERMA 1E: 4.5%.

Gnd speed-KT	75	100	150	200	250	300
4.5% V/V (fpm)	342	456	684	911	1139	1367
5.2% V/V (fpm)	395	527	790	1053	1316	1580

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1660'	(994' - 300m)
2640'	(1974' - 600m)

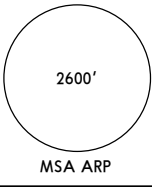
UUBC
GRABTSEVO

JEPPesen
6 NOV 15 **(10-3B)** **Eff 12 Nov**

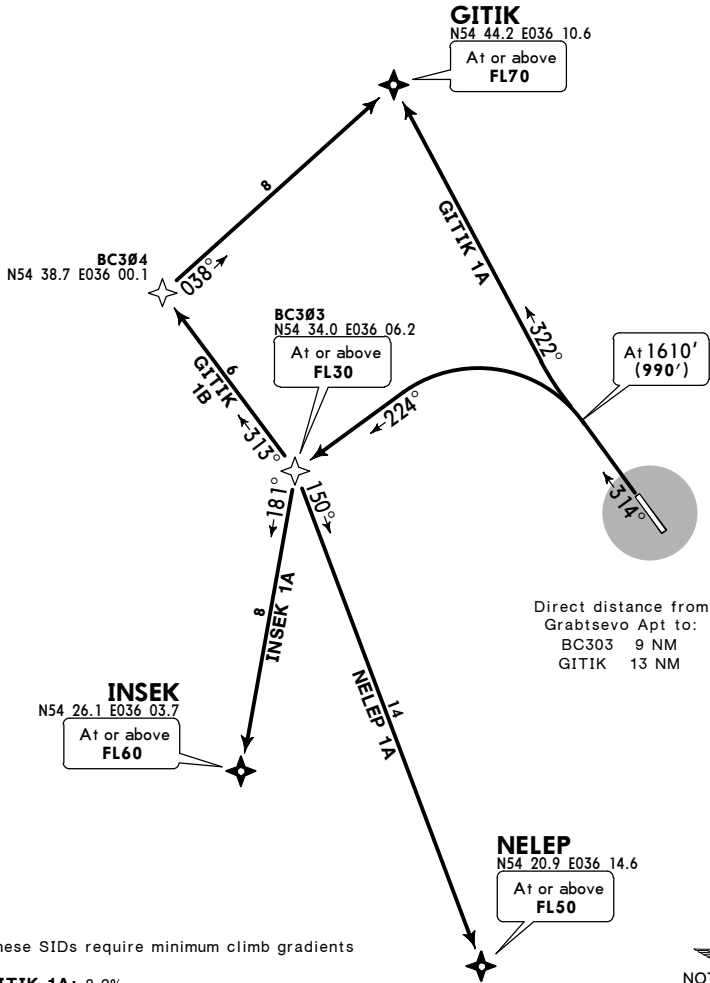
KALUGA, RUSSIA
RNAV SID

Apt Elev
666'

QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (2020')
1. RNAV (GNSS)
2. All turns shall be carried out with bank of 25°.



GITIK 1A [GITI1A]
GITIK 1B [GITI1B]
INSEK 1A [INSE1A]
NELEP 1A [NELE1A]
RWY 31 RNAV DEPARTURES
SPEED: MAX 230 KT



These SIDs require minimum climb gradients of
GITIK 1A: 8.2%
GITIK 1B: 5.1%
INSEK 1A: 5.3%.

Gnd speed-KT	75	100	150	200	250	300
5.1% V/V (fpm)	387	516	775	1033	1291	1549
5.3% V/V (fpm)	403	537	805	1073	1342	1610
8.2% V/V (fpm)	623	830	1246	1661	2076	2491

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1610'	(990' - 300m)
2640'	(2020' - 600m)

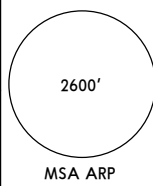
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JEPPESSEN
6 NOV 15 **10-3C** **Eff 12 Nov**

KALUGA, RUSSIA
RNAV SID

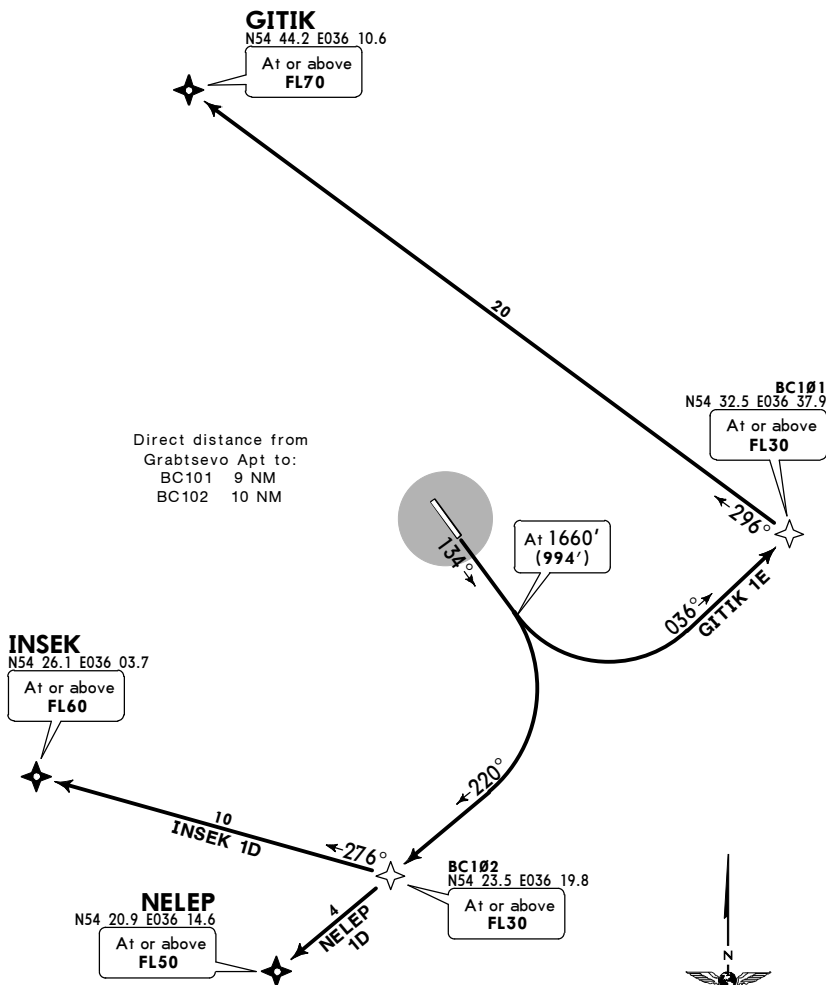
Apt Elev
666'

QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (1974')
1. RNAV (GNSS)
2. All turns shall be carried out with bank of 25°.



GITIK 1E [GITI1E]
INSEK 1D [INSE1D]
NELEP 1D [NELE1D]
RWY 13 RNAV DEPARTURES

SPEED: MAX 230 KT



These SIDs require minimum climb gradients
of
INSEK 1D: 4.3%.
NELEP 1D: 4.8%.

Gnd speed-KT	75	100	150	200	250	300
4.3% V/V (fpm)	327	435	653	871	1089	1306
4.8% V/V (fpm)	365	486	729	972	1215	1458

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1660'	(994' - 300m)
2640'	(1974' - 600m)

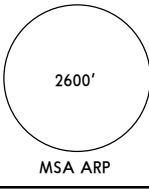
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JEPPesen
6 NOV 15 (10-3D) Eff 12 Nov

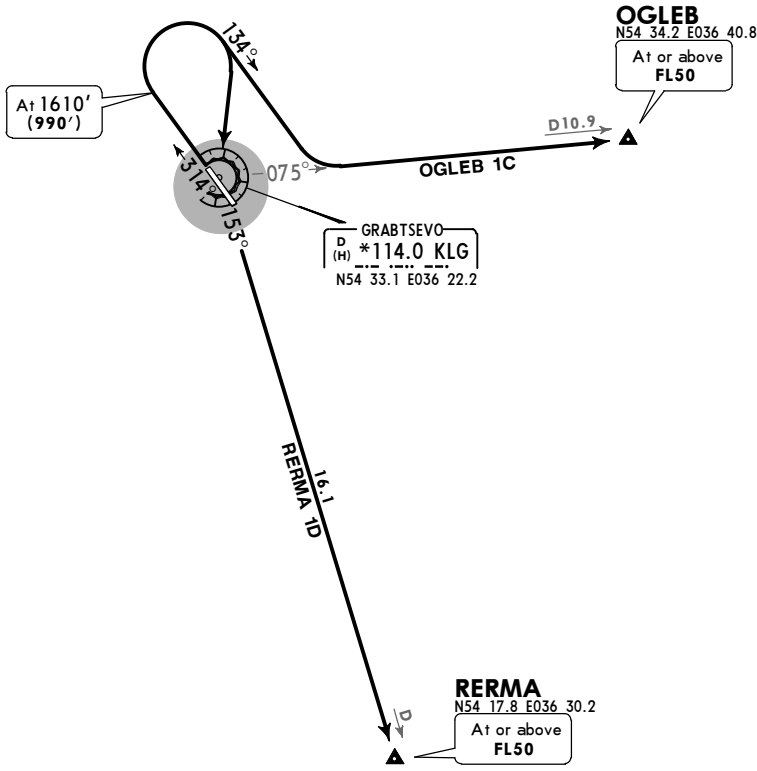
KALUGA, RUSSIA
SID

Apt Elev
666'

QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (2020')
All turns shall be carried out with bank of 25°.



OGLEB 1C [OGLE1C]
RERMA 1D [RERM1D]
RWY 31 DEPARTUES
SPEED: MAX 230 KT



ALT/HEIGHT CONVERSION	
QNH	(QFE)
1610'	(990' - 300m)
2640'	(2020' - 600m)

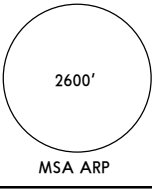
UUBC
GRABTSEVO

JEPPesen
6 NOV 15 **10-3E** **Eff 12 Nov**

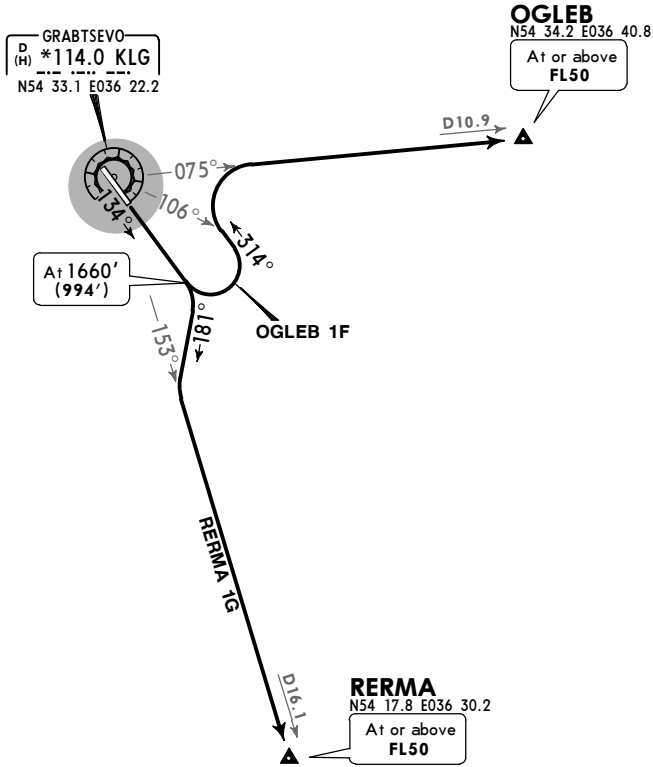
KALUGA, RUSSIA
SID

Apt Elev
666'

QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (1974')
All turns shall be carried out with bank of 25°.



OGLEB 1F [OGLE1F]
RERMA 1G [RERM1G]
RWY 13 DEPARTUES
SPEED: MAX 230 KT



These SIDs require minimum climb gradients
of
OGLEB 1F: 5.0%.
RERMA 1G: 4.4%.

Gnd speed-KT	75	100	150	200	250	300
4.4% V/V (fpm)	334	446	668	891	1114	1337
5.0% V/V (fpm)	380	506	760	1013	1266	1519

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1660'	(994' - 300m)
2640'	(1974' - 600m)

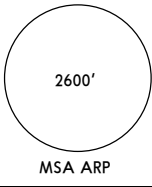
UUBC
GRABTSEVO

JEPPESSEN
6 NOV 15 **10-3F** Eff 12 Nov

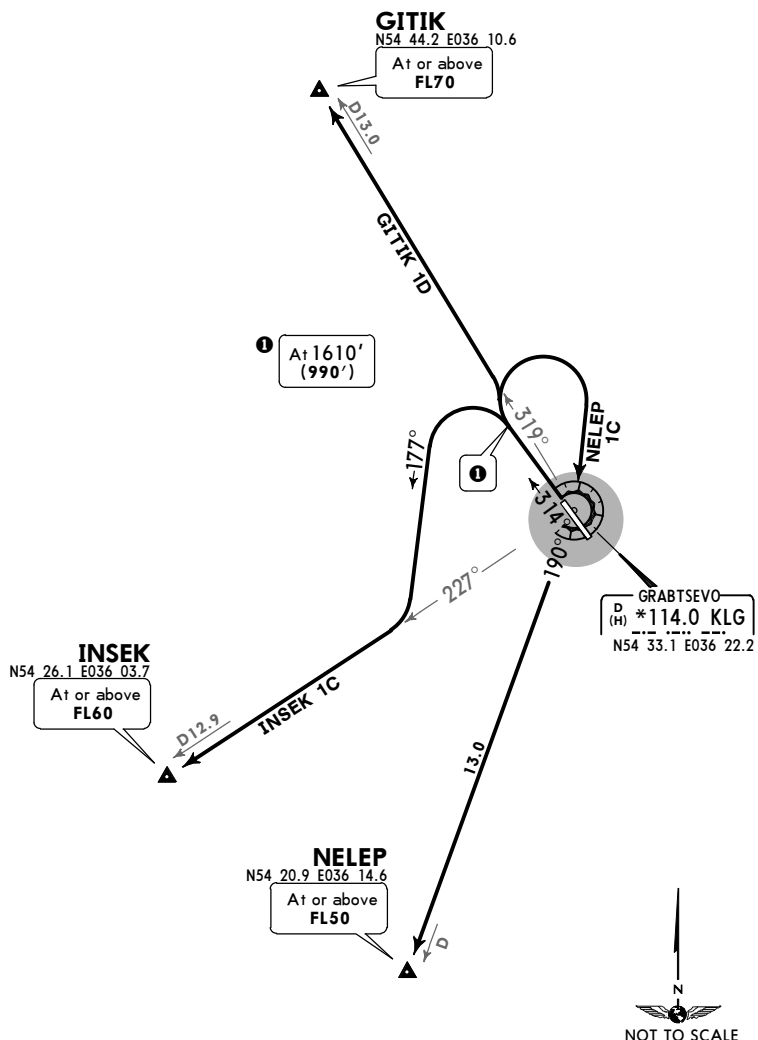
KALUGA, RUSSIA
SID

Apt Elev
666'

QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (2020')
All turns shall be carried out with bank of 25°.



GITIK 1D [GITI1D]
INSEK 1C [INSE1C]
NELEP 1C [NELE1C]
RWY 31 DEPARTUES
SPEED: MAX 230 KT



These SIDs require minimum climb gradients
of
GITIK 1D: 8.2%.
INSEK 1C: 4.5%.

Gnd speed-KT	75	100	150	200	250	300
4.5% V/V (fpm)	342	456	684	911	1139	1367
8.2% V/V (fpm)	623	830	1246	1661	2076	2491

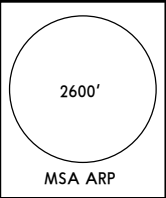
ALT/HEIGHT CONVERSION	
QNH	(QFE)
1610'	(990' - 300m)
2640'	(2020' - 600m)

UUBC
GRABTSEVO

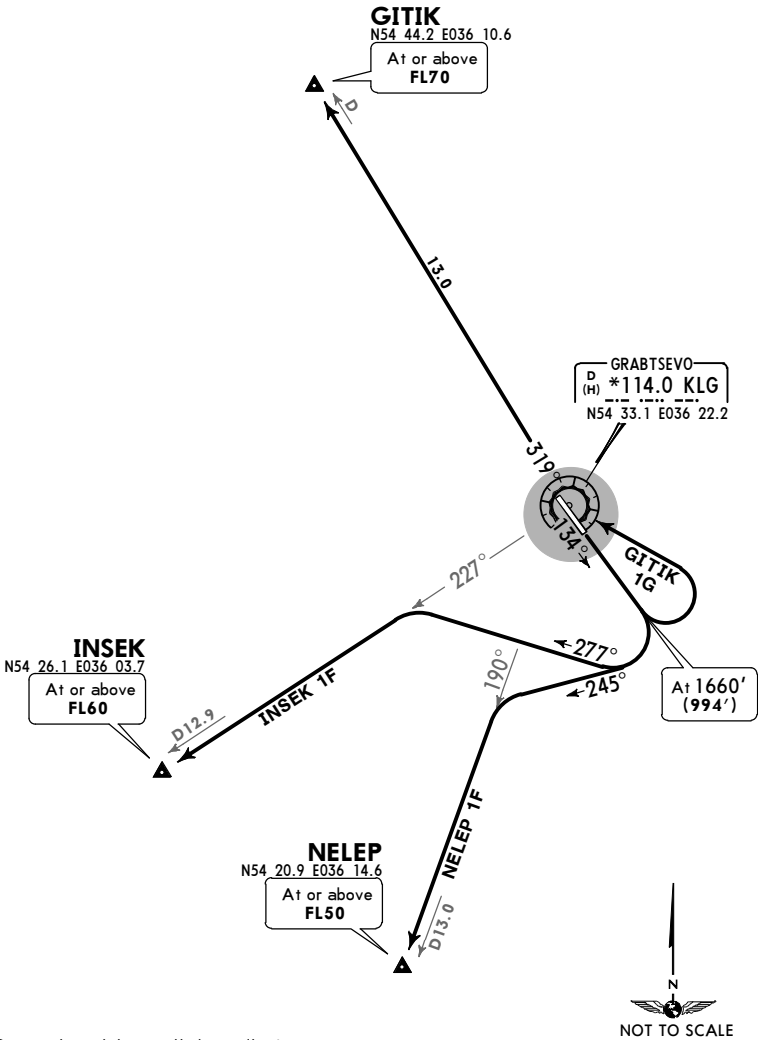
JEPPESSEN
6 NOV 15 10-3G Eff 12 Nov

KALUGA, RUSSIA
SID

Apt Elev 666' QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (1974')
All turns shall be carried out with bank of 25°.



GITIK 1G [GITI1G]
INSEK 1F [INSE1F]
NELEP 1F [NELE1F]
RWY 13 DEPARTUES
SPEED: MAX 230 KT



These SIDs require minimum climb gradients of
INSEK 1F: 4.2%.
NELEP 1F: 4.4%.

Gnd speed-KT	75	100	150	200	250	300
4.2% V/V (fpm)	319	425	638	851	1063	1276
4.4% V/V (fpm)	334	446	668	891	1114	1337

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1660'	(994' - 300m)
2640'	(1974' - 600m)

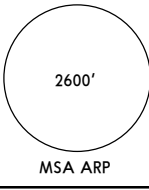
UUBC
GRABTSEVO

JEPPesen
6 NOV 15 **10-3H** **Eff 12 Nov**

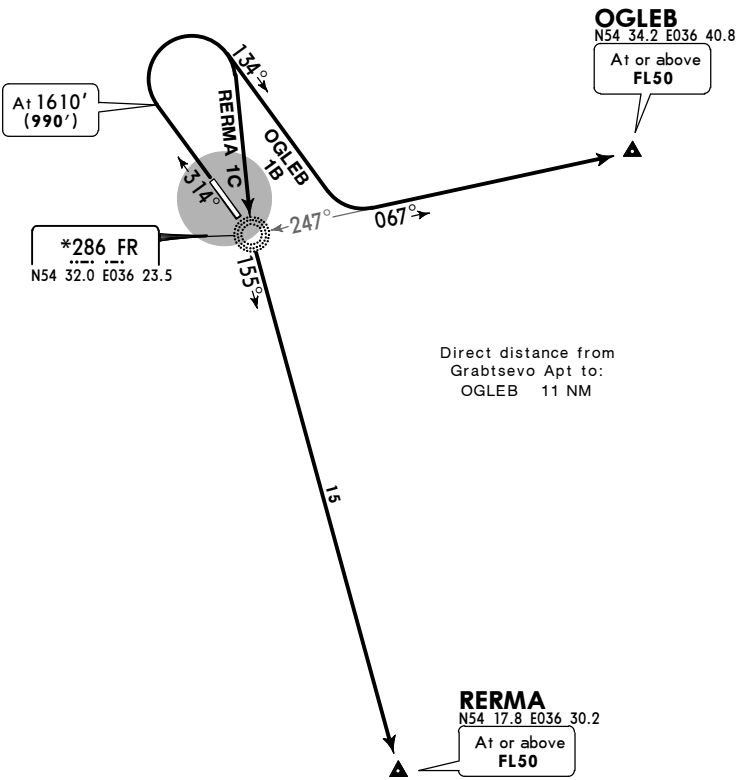
KALUGA, RUSSIA
SID

Apt Elev
666'

QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (2020')
All turns shall be carried out with bank of 25°.



OGLEB 1B [OGLE1B]
RERMA 1C [RERM1C]
RWY 31 DEPARTUES
SPEED: MAX 230 KT



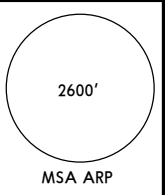
ALT/HEIGHT CONVERSION	
QNH	(QFE)
1610'	(990' - 300m)
2640'	(2020' - 600m)

UUBC
GRABTSEVO

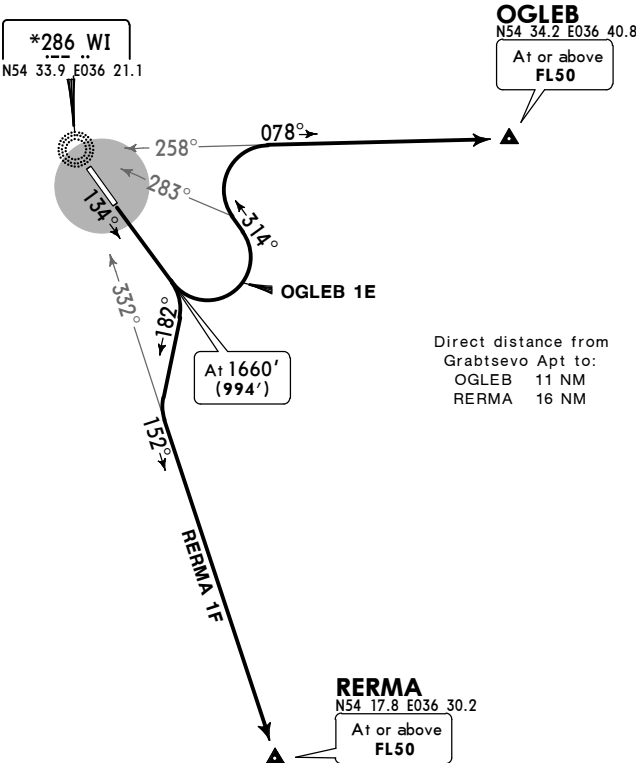
JEPPesen
6 NOV 15 (10-3J) Eff 12 Nov

KALUGA, RUSSIA
SID

Apt Elev 666'	QNH on request (QFE) Trans level: By ATC Trans alt: 2640' (1974') All turns shall be carried out with bank of 25°.
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OGLEB 1E [OGLE1E]
RERMA 1F [RERM1F]
RWY 13 DEPARTUES
SPEED: MAX 230 KT



These SIDs require minimum climb gradients
of
OGLEB 1E: 5.0%.
RERMA 1F: 4.4%.

Gnd speed-KT	75	100	150	200	250	300
4.4% V/V (fpm)	334	446	668	891	1114	1337
5.0% V/V (fpm)	380	506	760	1013	1266	1519

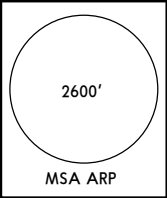
ALT/HEIGHT CONVERSION	
QNH	(QFE)
1660'	(994' - 300m)
2640'	(1974' - 600m)

UUBC
GRABTSEVO

JEPPESSEN
6 NOV 15 10-3K Eff 12 Nov

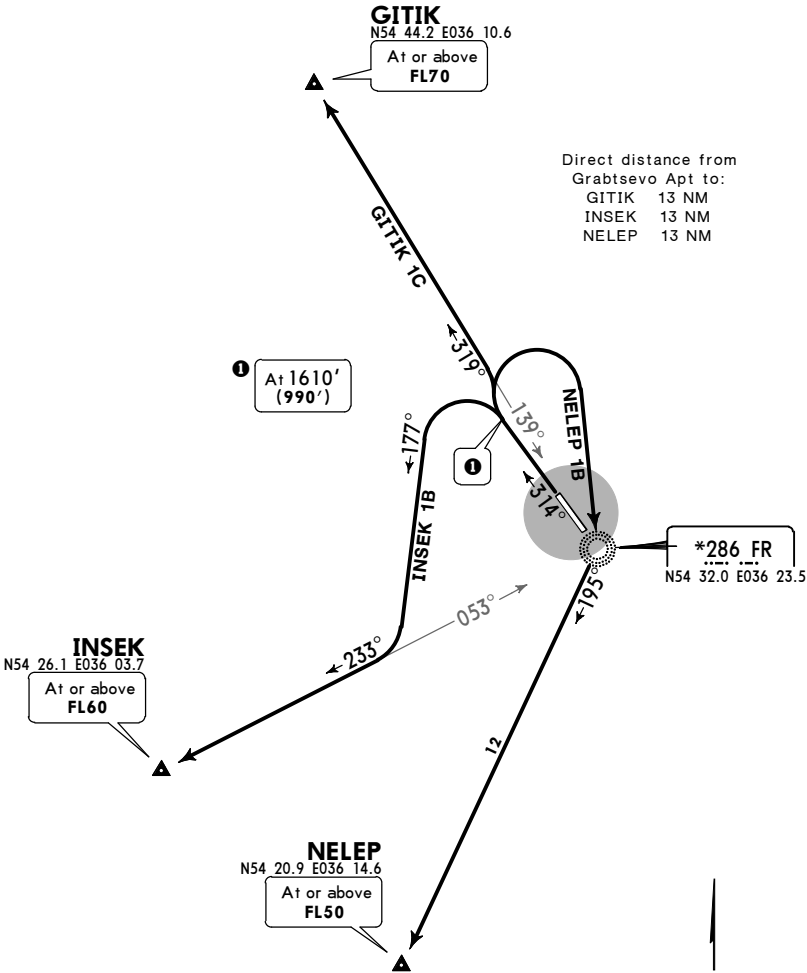
KALUGA, RUSSIA
SID

Apt Elev 666' QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (2020')
All turns shall be carried out with bank of 25°.



GITIK 1C [GITI1C]
INSEK 1B [INSE1B]
NELEP 1B [NELE1B]
RWY 31 DEPARTUES
SPEED: MAX 230 KT

Direct distance from
Grabtsevo Apt to:
GITIK 13 NM
INSEK 13 NM
NELEP 13 NM



These SIDs require minimum climb gradients
of
GITIK 1C: 8.2%.
INSEK 1B: 4.5%.

Gnd speed-KT	75	100	150	200	250	300
4.5% V/V (fpm)	342	456	684	911	1139	1367
8.2% V/V (fpm)	623	830	1246	1661	2076	2491

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1610'	(990' - 300m)
2640'	(2020' - 600m)

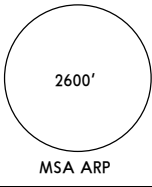
UUBC
GRABTSEVO

JEPPesen
6 NOV 15 10-3L Eff 12 Nov

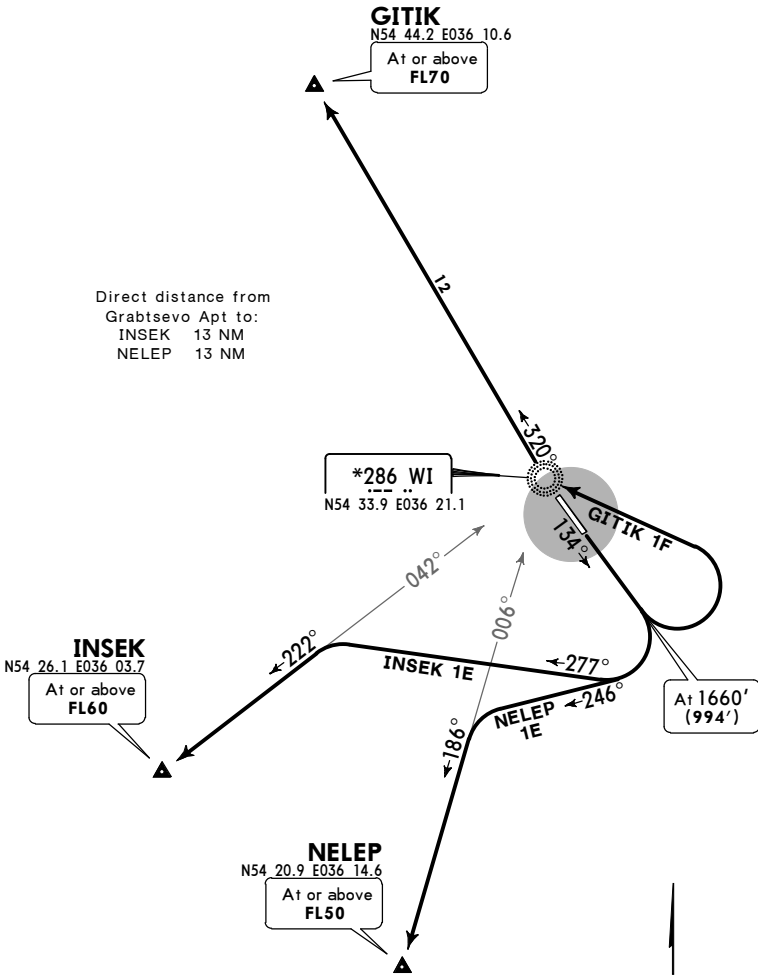
KALUGA, RUSSIA
SID

Apt Elev
666'

QNH on request (QFE)
Trans level: By ATC Trans alt: 2640' (1974')
All turns shall be carried out with bank of 25°.



GITIK 1F [GITI1F]
INSEK 1E [INSE1E]
NELEP 1E [NELE1E]
RWY 13 DEPARTUES
SPEED: MAX 230 KT



Direct distance from
Grabtsevo Apt to:
INSEK 13 NM
NELEP 13 NM

These SIDs require minimum climb gradients
of
INSEK 1E: 4.2%.
NELEP 1E: 4.4%.

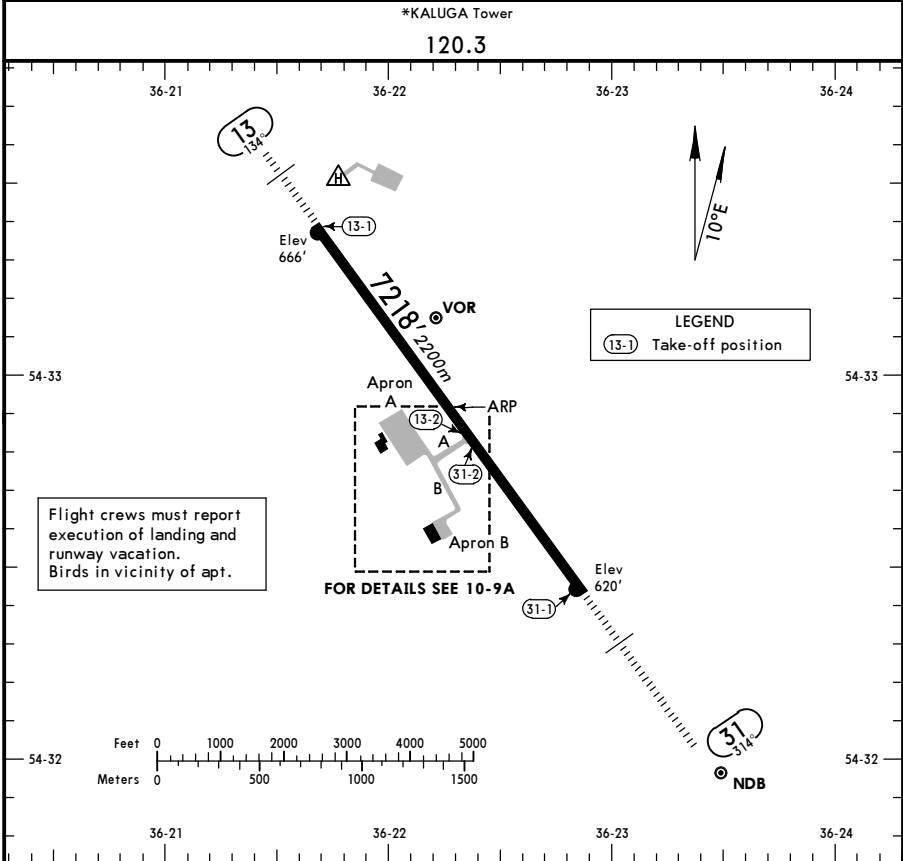
Gnd speed-KT	75	100	150	200	250	300
4.2% V/V (fpm)	319	425	638	851	1063	1276
4.4% V/V (fpm)	334	446	668	891	1114	1337

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1660'	(994' - 300m)
2640'	(1974' - 800m)

UUBC
Apt Elev **666'**
N54 32.9 E036 22.3

JEPPesen
6 NOV 15 **10-9** **Eff 12 Nov**

KALUGA, RUSSIA
GRABTSEVO



ADDITIONAL RUNWAY INFORMATION

RWY				USABLE LENGTHS		TAKE-OFF	WIDTH
				LANDING	BEYOND		
				Threshold	Glide Slope		
13	RL (45m)	HIALS	PAPI-L (3.0°)			1	148'
31					6306' 1922m		45m

1 TAKE-OFF RUN AVAILABLE

RWY 13: From point 13-1 7218' (2200m) RWY 31: From point 13-1 7218' (2200m)
from point 13-2 3077' (938m) from point 31-2 4193' (1278m)

LOW VISIBILITY PROCEDURES (LVP)

LVP applied when RVR is less than 600m. ATC will inform pilots using phraseology:
"LVP in progress. Check your minimum."

The following is prohibited during LVP:

- take-off not from the runway extremity,
- take-off without stop at line-up position after entering runway.

TAKE-OFF

AIR CARRIER (JAA)

All Rwy's

LVP must be in force

RCLM (DAY only)
or RL

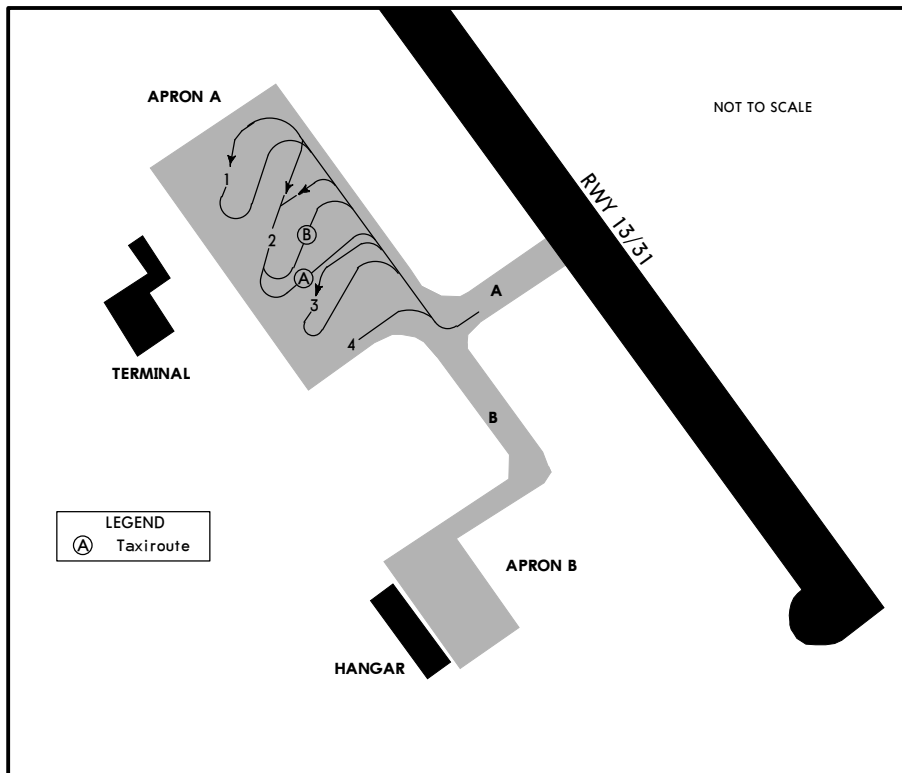
RCLM (DAY only)
or RL

A		
B	250m	400m
C		
D	300m	

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JEPPESSEN
6 NOV 15 **(10-9A)** **Eff 12 Nov**

KALUGA, RUSSIA
GRABTSEVO



INS COORDINATES

STAND No.	COORDINATES	
1	N54 32.9	E036 22.1
2 thru 4	N54 32.8	E036 22.1

Taxiing on apron shall be carried out at power unit rate not more than 0.42 of the nominal.
If unable to taxi out at this power unit rate, flight crew shall request a tow tractor to tow acft to the start-up point.

Taxiing of ACFT from apron A to apron B and backward shall be carried out only by towing.

Engines start-up and taxiing shall be carried out by permission of controller.

Stand 4 available for helicopter.

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STRAIGHT-IN RWY		A	B	C	D
13	RNAV ①	1120'(454') R1500m	1120'(454') R1500m	1120'(454') R1700m	1120'(454') R1700m
	ALS out	R1500m	R1500m	C2100m	C2100m
	VOR ①	1130'(464') R1500m	1130'(464') R1500m	1130'(464') R1800m	1130'(464') R1800m
	ALS out	R1500m	R1500m	C2200m	C2200m
	NDB ① ②	1130'(464') R1500m	1130'(464') R1500m	1130'(464') R1800m	1130'(464') R1800m
	ALS out	R1500m	R1500m	C2200m	C2200m
	NDB ③	1260'(594') C2200m	1260'(594') C2200m	1260'(594') C2700m	1260'(594') C2700m
	ALS out	C2900m	C2900m	C3100m	C3100m
	ILS	820'(200') R550m	820'(200') R550m	820'(200') R550m	820'(200') R550m
	FULL	R750m	R750m	R750m	R750m
31	Limited	R1200m	R1200m	R1200m	R1200m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	RNAV ①	970'(350') R900m	970'(350') R900m	970'(350') R900m	970'(350') R900m
	ALS out	R1500m	R1500m	R1600m	R1600m
	VOR ①	980'(360') R900m	980'(360') R900m	980'(360') R900m	980'(360') R900m
	ALS out	R1500m	R1500m	R1600m	R1600m
	NDB ① ②	970'(350') R900m	970'(350') R900m	970'(350') R900m	970'(350') R900m
	ALS out	R1500m	R1500m	R1600m	R1600m
	NDB ③	1180'(560') R2000m	1180'(560') R2000m	1180'(560') C2200m	1180'(560') C2200m
	ALS out	C2700m	C2700m	C2900m	C2900m

① Continuous Descent Final Approach.

② with FAF.

③ w/o FAF.

CIRCLE-TO-LAND ④	100 KT	135 KT	180 KT	205 KT
to rwy 13	1180'(514') V1500m⑥	1260'(594') V1600m	1360'(694') V2400m	1610'(944') V3600m
to rwy 31 ⑤	1140'(520') V1500m⑥	1220'(600') V1600m⑥	1310'(690') V2400m	1570'(950') V3600m

④ Prohibited in sector 182° - 299°.

⑤ Circling height based on rwy 31 threshold elev of 620'.

⑥ or higher minimums of preceding straight-in approach.

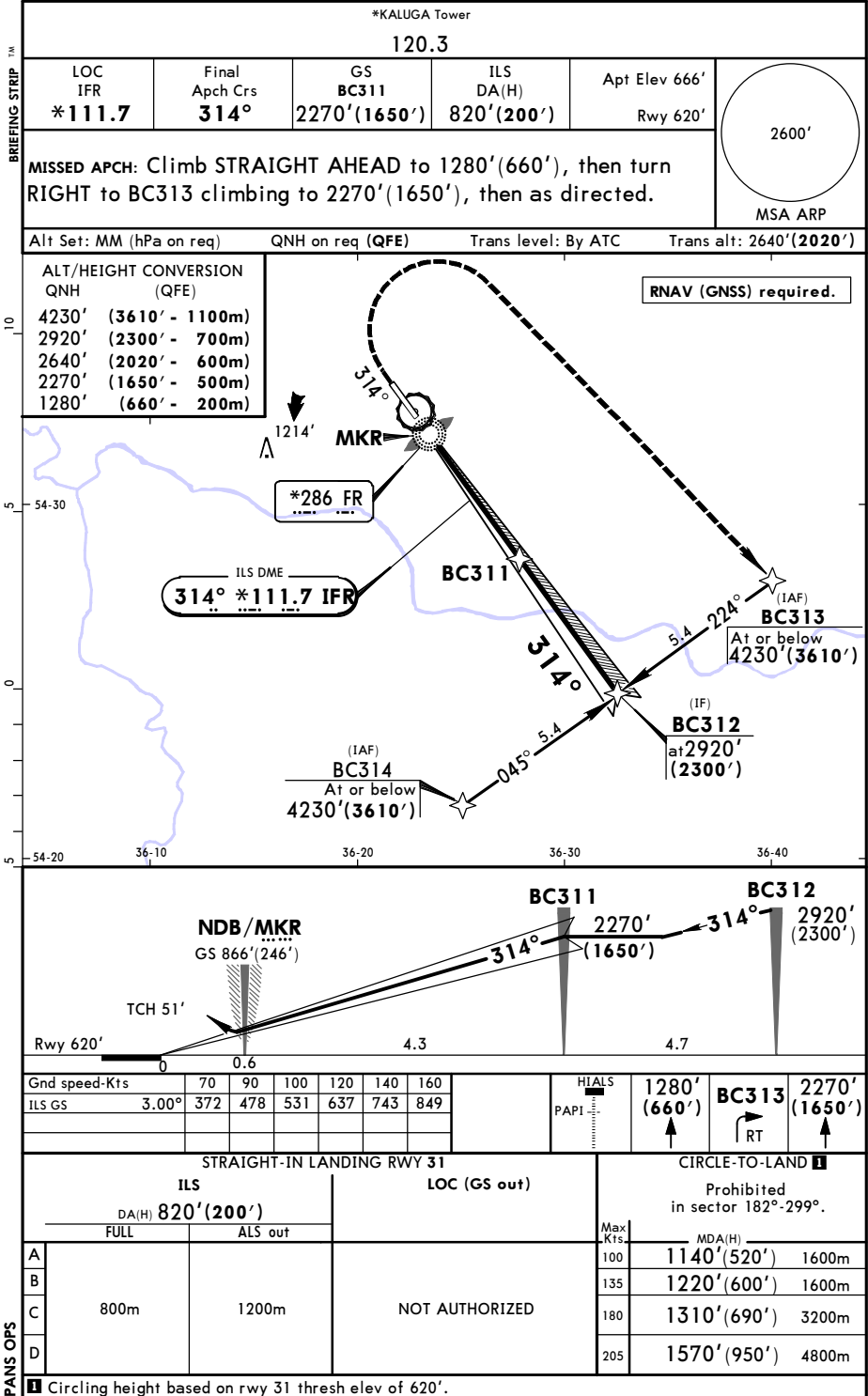
TAKE-OFF RWY 13, 31

LVP must be in Force			
RCLM (DAY only) or RL		RCLM (DAY only) or RL	NIL (DAY only)
A	250m	400m	500m
B			
C			
D	300m		

UUBC
GRABTSEVO

JEPPesen
6 NOV 15 **11-1** **Eff 12 Nov**

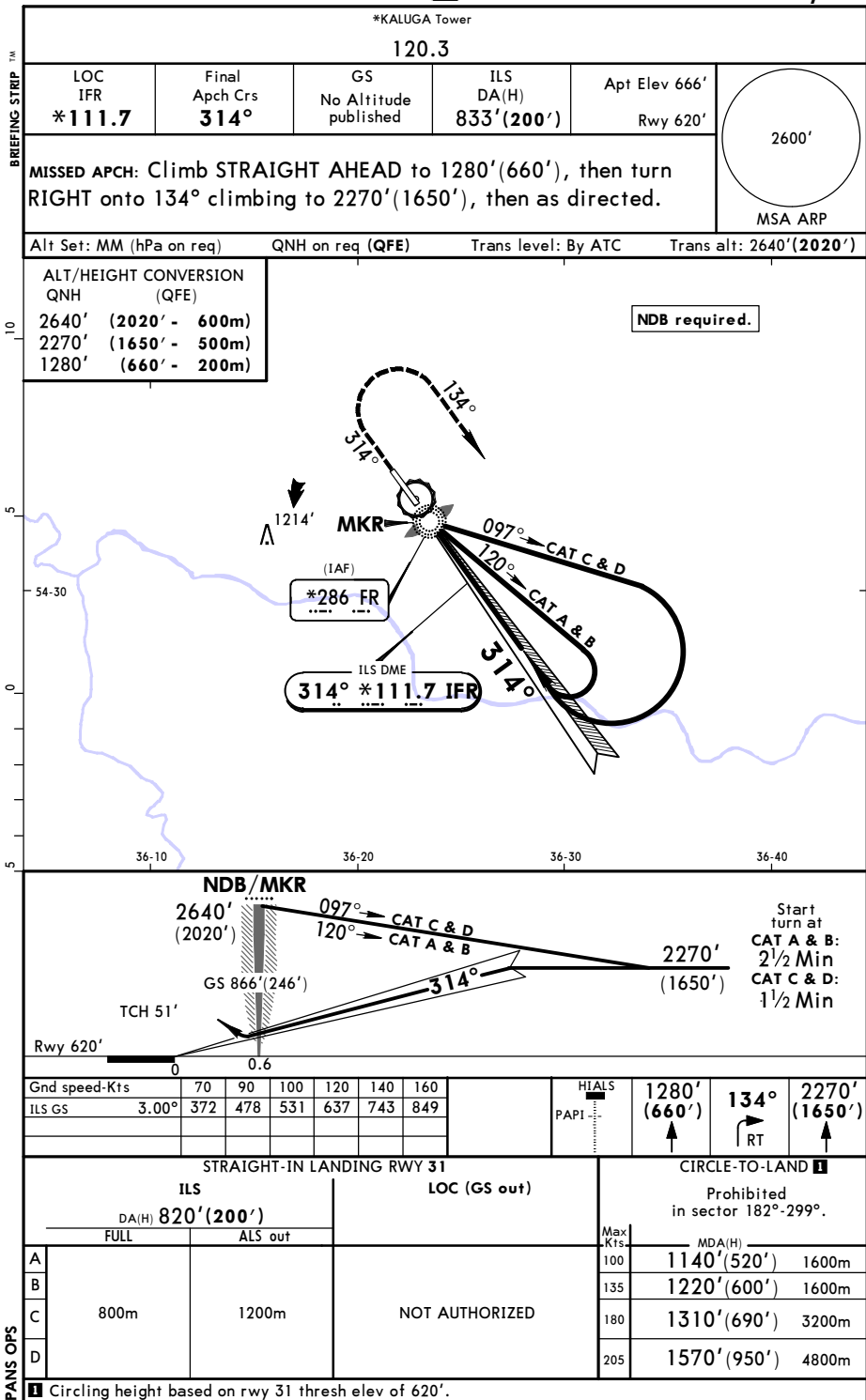
KALUGA, RUSSIA
ILS Z Rwy 31



UUBC
GRABTSEVO

JEPPesen
6 NOV 15 **11-2** Eff 12 Nov

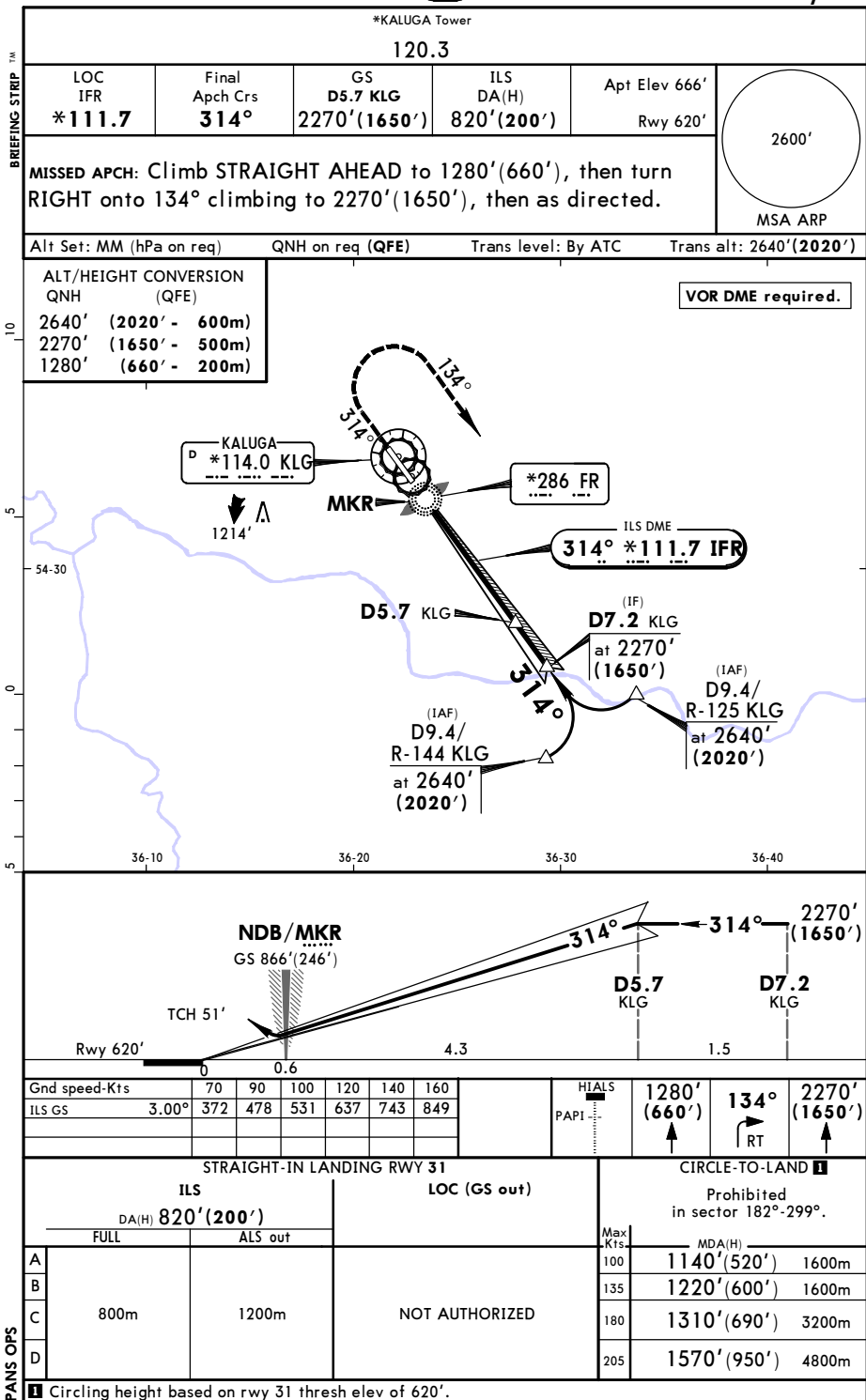
KALUGA, RUSSIA
ILS Y Rwy 31



UUBC
GRABTSEVO

JEPPesen
6 NOV 15 **11-3** **Eff 12 Nov**

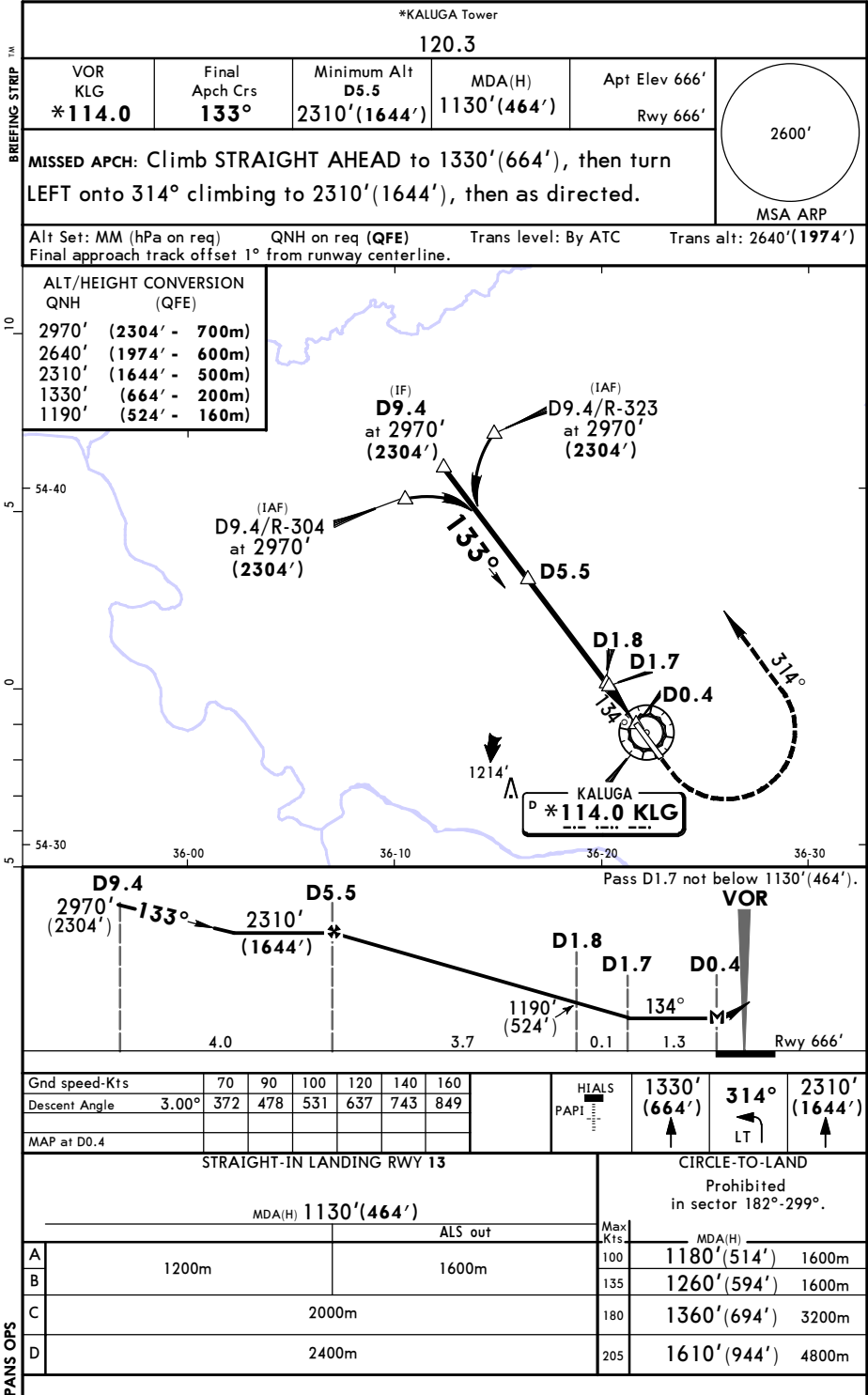
KALUGA, RUSSIA
ILS X Rwy 31



UUBC
GRABTSEVO

JEPPesen
19 FEB 16 **13-1** Eff 3 Mar

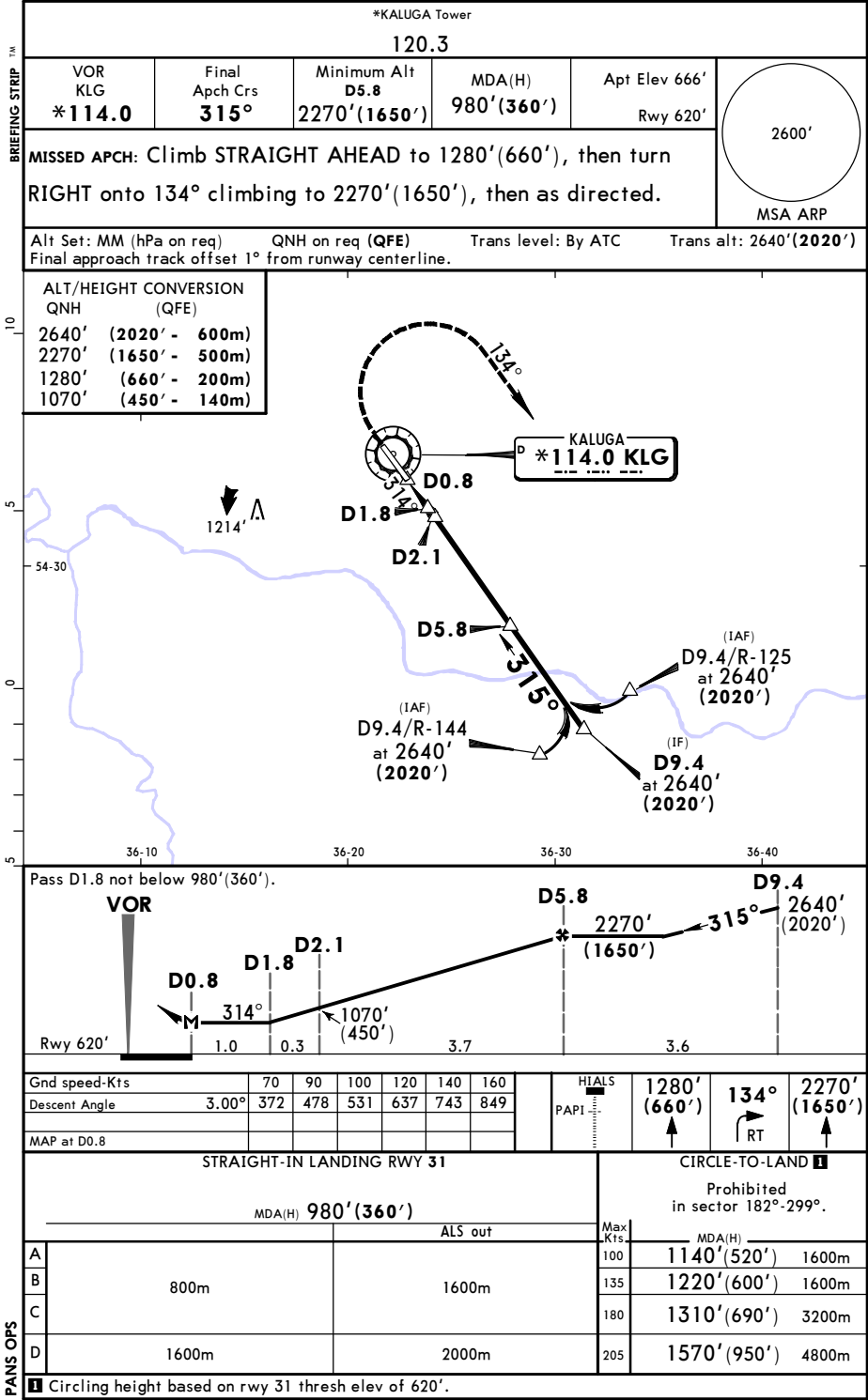
KALUGA, RUSSIA
VOR DME Rwy 13



UUBC
GRABTSEVO

JEPPESEN
19 FEB 16 **13-2** **Eff 3 Mar**

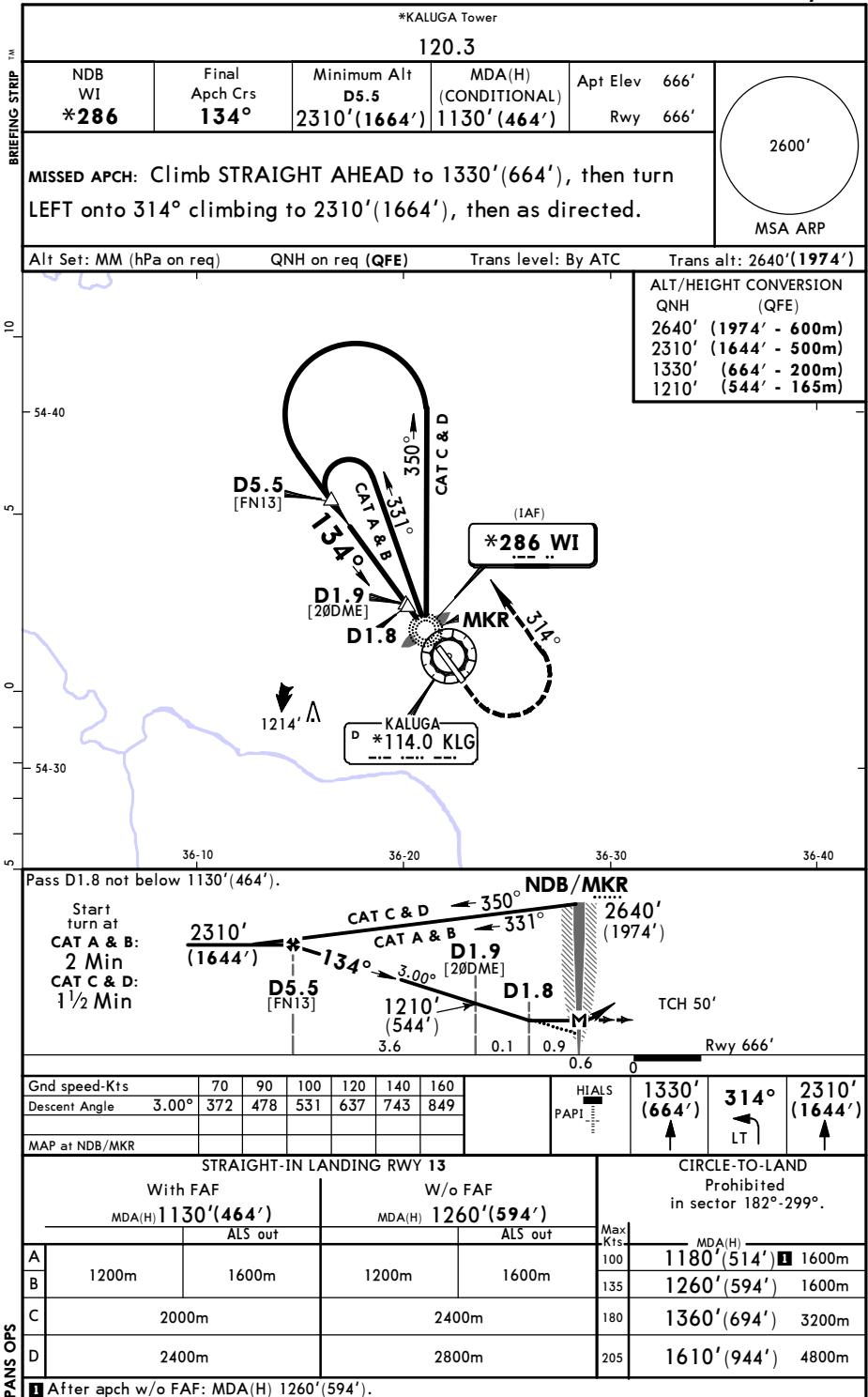
KALUGA, RUSSIA
VOR DME Rwy 31



UUBC
GRABTSEVO

JEPPesen
19 FEB 16 **(16-1)** **Eff 3 Mar**

KALUGA, RUSSIA
NDB Rwy 13



UUBC
GRABTSEVO

JEPPesen
19 FEB 16 **16-2** Eff 3 Mar

KALUGA, RUSSIA
NDB Rwy 31

BRIEFING STRIP™	*KALUGA Tower					2600' MSA ARP
	120.3					
	NDB FR *286	Final Apch Crs 314°	Minimum Alt D5.8 2270'(1650')	MDA(H) (CONDITIONAL) 970'(350')	Apt Elev 666' Rwy 620'	
	MISSED APCH: Climb STRAIGHT AHEAD to 1280'(660'), then turn RIGHT onto 134°climbing to 2270'(1650'), then as directed.					

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 2640'(2020')

54-40

10

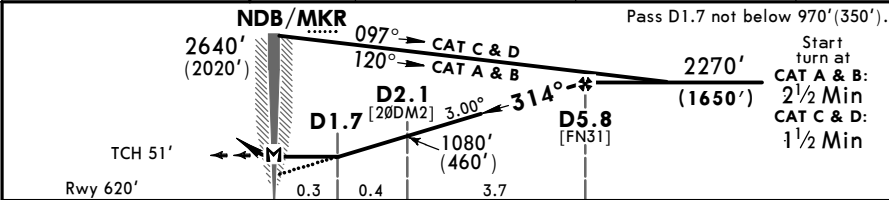
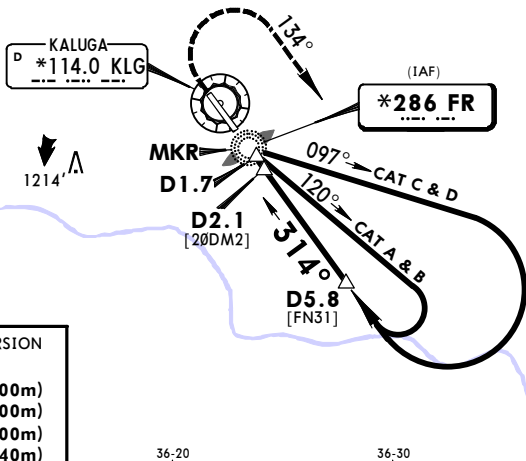
5

54-30

0

5

ALT/HEIGHT CONVERSION	
QNH	(QFE)
2640' (2020' - 600m)	
2270' (1650' - 500m)	
1280' (660' - 200m)	
1080' (460' - 140m)	



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	1280' (660')	134° RT	2270' (1650')
Descent Angle 3.00°	372	478	531	637	743	849				
MAP at NDB/MKR										

STRAIGHT-IN LANDING RWY 31					CIRCLE-TO-LAND 1	
With FAF		W/o FAF			Prohibited in sector 182°-299°.	
MDA(H) 970'(350')		MDA(H) 1180'(560')				
ALS out		ALS out		Max Kts	MDA(H)	
A				100	1140'(520')	1600m
B	1200m	1600m	1200m	135	1220'(600')	1600m
C			1600m	180	1310'(690')	3200m
D	1600m	2000m	2400m	205	1570'(950')	4800m

1 Circling height based on rwy 31 thresh elev of 620'. **2** After apch w/o FAF: MDA(H) 1180'(560').

Chart changes since cycle 12-2016

ADD = added chart, REV = revised chart, DEL = deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
KALUGA, (GRABTSEVO - UUBC)				

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport UUBC