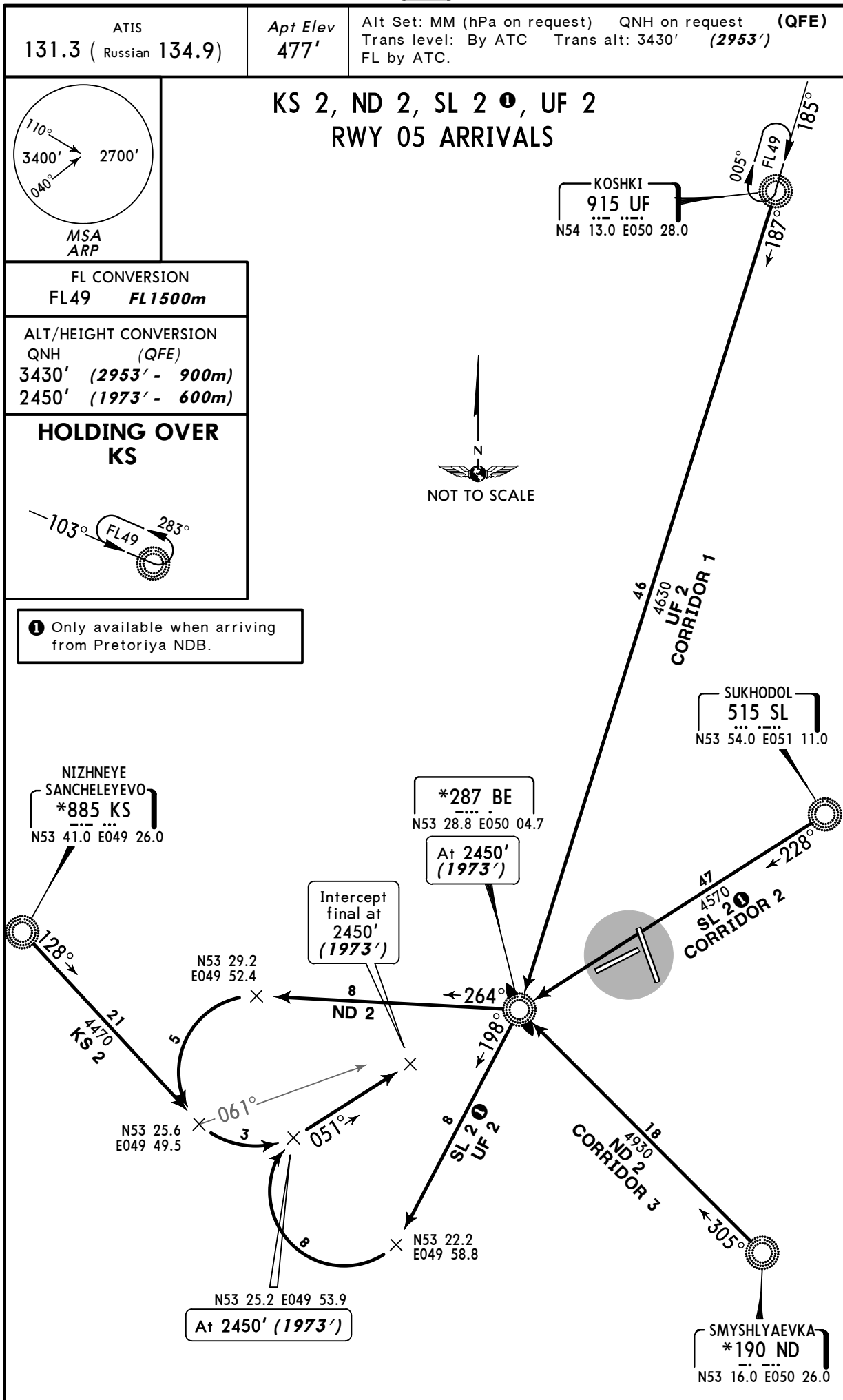


UWWW/KUF
KURUMOCH

JEPPESEN
1 AUG 08 10-2

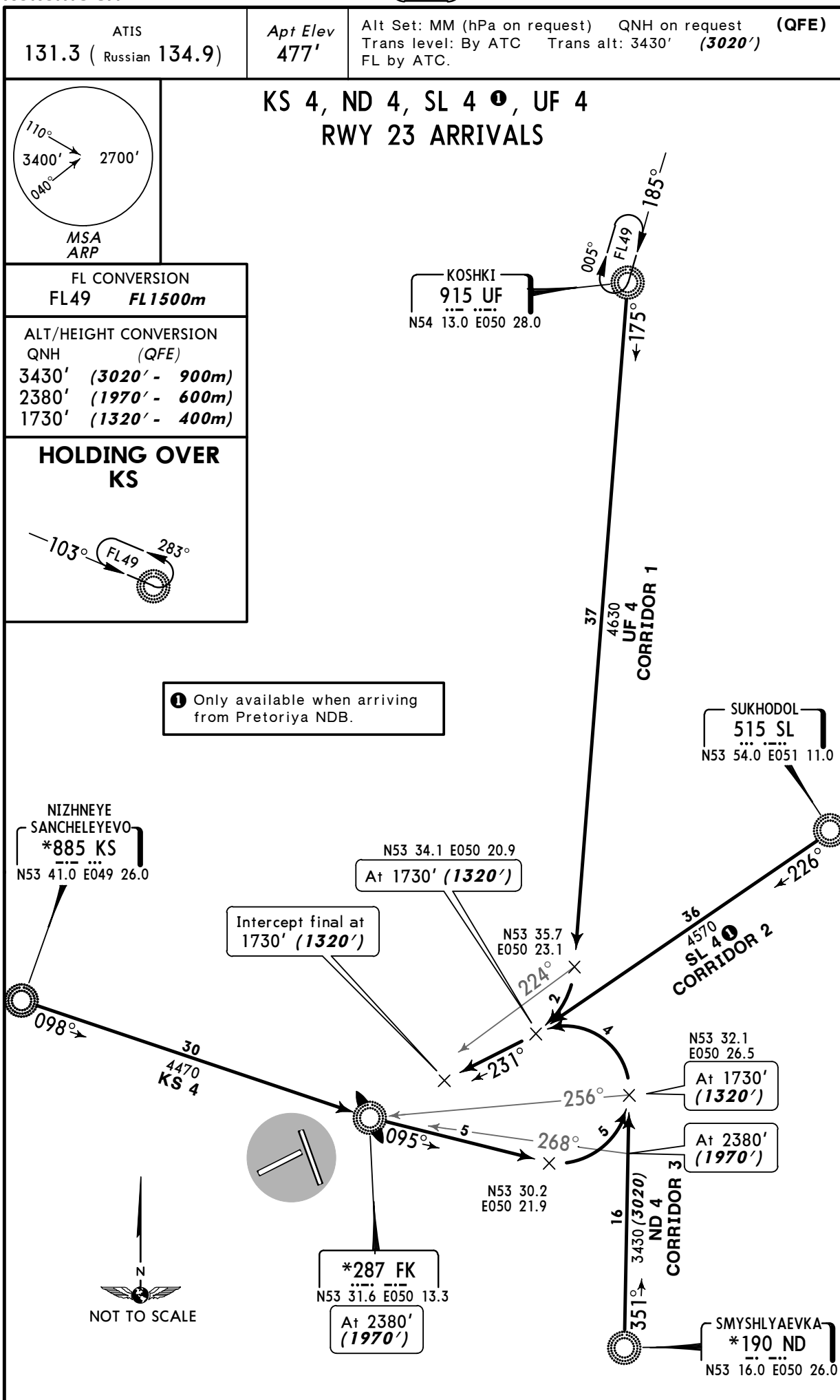
SAMARA, RUSSIA
STAR



UWWW/KUF
KURUMOCH

JEPPESEN
1 AUG 08 (10-2A)

SAMARA, RUSSIA
STAR



UWWW/KUF
KURUMOCH

1 AUG 08

JEPPESEN

10-2B

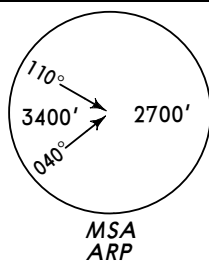
SAMARA, RUSSIA

STAR

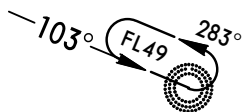
ATIS
131.3 (Russian 134.9)

Apt Elev
477'

Alt Set: MM (hPa on request) QNH on request **(QFE)**
Trans level: By ATC Trans alt: 3430' **(3015)**
FL by ATC.

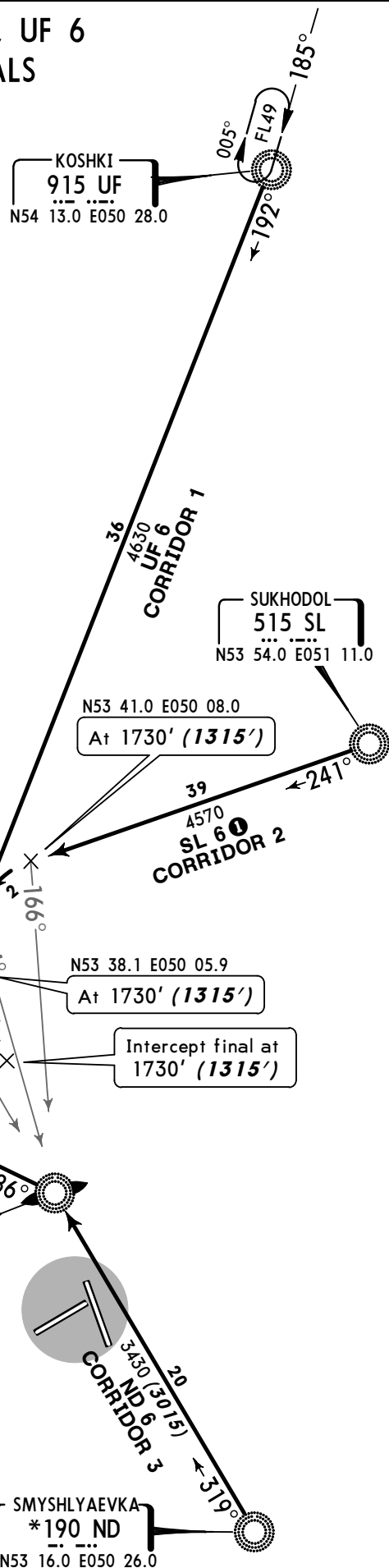


HOLDING OVER KS



1 Only available when arriving from Pretoriya NDB.

KS 6, ND 6, SL 6 ①, UF 6
RWY 15 ARRIVALS



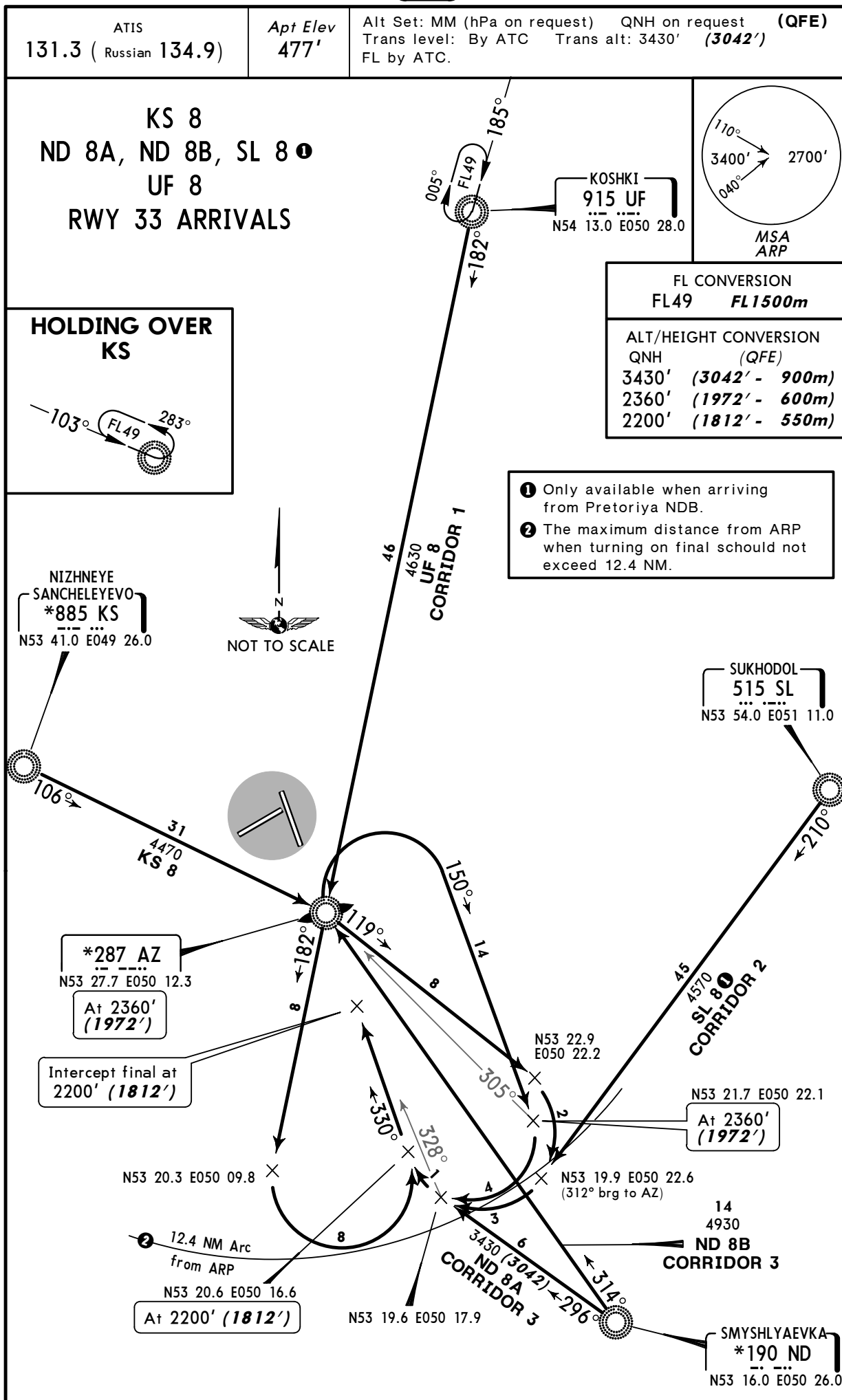
FL CONVERSION
FL49 *FL1500m*

ALT/HEIGHT CONVERSION
QNH (QFE)
3430' (3015' - 900m)
2390' (1975' - 600m)
1730' (1315' - 400m)

UWWW/KUF
KURUMOCH

JEPPESEN
1 AUG 08 10-2C

SAMARA, RUSSIA
STAR



UWWW/KUF
KURUMUCH

JEPPESEN
18 AUG 06 (10-3) Eff 31 Aug

SAMARA, RUSSIA

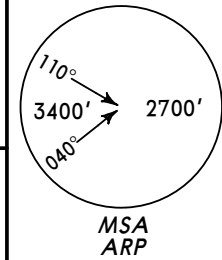
SID

Apt Elev
477'

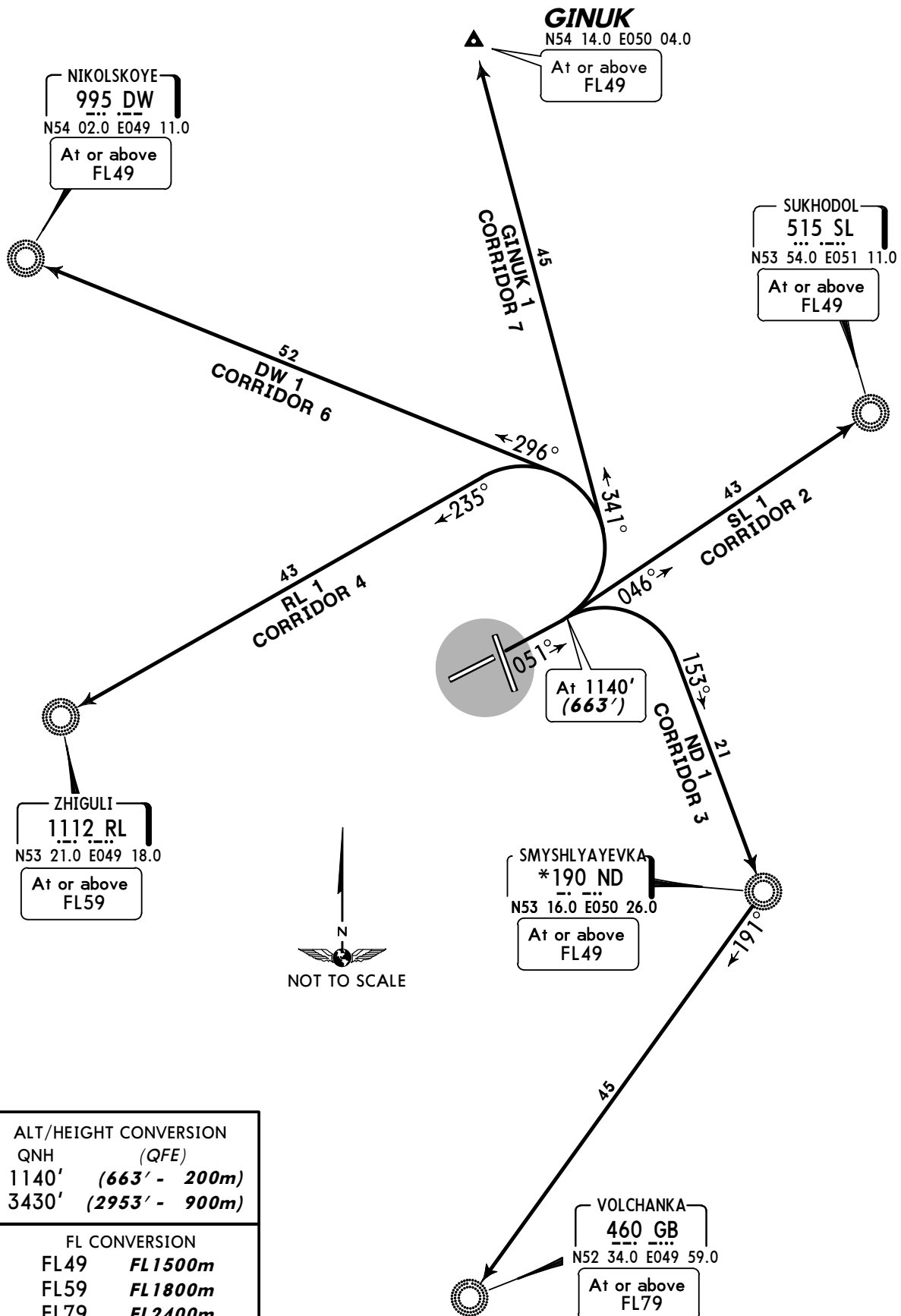
QNH on request **(QFE)**

Trans level: By ATC Trans alt: 3430' **(2953')**

Take-off should be carried out according to noise abatement procedures and flights should be conducted in accordance with ACFT performance requirements.



DW 1, GINUK 1, ND 1, RL 1, SL 1
RWY 05 DEPARTURES



ALT/HEIGHT CONVERSION
QNH (QFE)
1140' (663' - 200m)
3430' (2953' - 900m)

FL CONVERSION

FL49	<i>FL1500m</i>
FL59	<i>FL1800m</i>
FL79	<i>FL2400m</i>

UWWW/KUF
KURUMUCH

JEPPESEN
18 AUG 06 **10-3A** **Eff 31 Aug**

SAMARA, RUSSIA

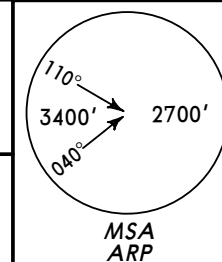
SID

Apt Elev
477'

QNH on request **(QFE)**

Trans level: By ATC Trans alt: 3430' **(3020')**

Take-off should be carried out according to noise abatement procedures and flights should be conducted in accordance with ACFT performance requirements.



DW 3, GINUK 3, ND 3A
ND 3B ❶, RL 3, SL 3
RWY 23 DEPARTURES

GINUK

N54 14.0 E050 04.0

At or above
FL49

NIKOLSKOYE

995 DW

N54 02.0 E049 11.0

At or above

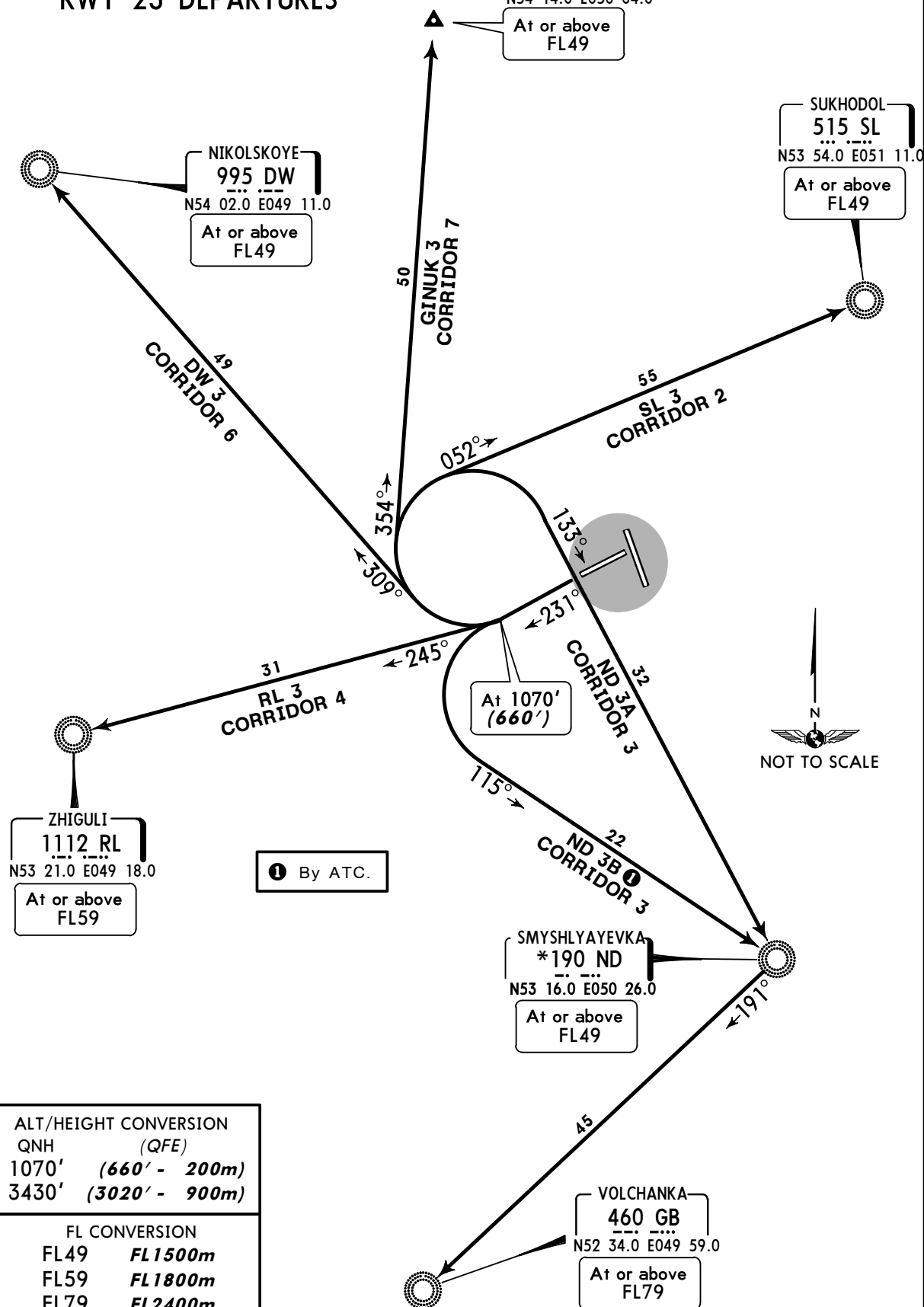
- SUKHODOL-

515 SL

N53 54 0 F051 11 0

At or above

FL49



ALT/HEIGHT CONVERSION

QNH (QFE)

1070' (660' - 200m)

3430' (3020' - 900m)

FL CONVERSION

FL49 *FL1500m*

FI 59 *FI 1800m*

FL79 **FL2400m**

- VOLCHANKA

460 GB

N52	34.0	E049	59.0
-----	------	------	------

At or above

FL79

UWWW/KUF
KURUMOCH

JEPPESEN
18 AUG 06 (10-3B) Eff 31 Aug

SAMARA, RUSSIA

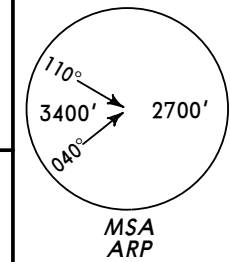
SID

Apt Elev
477'

QNH on request **(QFE)**

Trans level: By ATC Trans alt: 3430' **(3015')**

Take-off should be carried out according to noise abatement procedures and flights should be conducted in accordance with ACFT performance requirements.



DW 5A, DW 5B❶
GINUK 5A [*GINU5A*]
GINUK 5B [*GINU5B*]❶
ND 5
RL 5A, RL 5B❶
SL 5
RWY 15 DEPARTURES

GINUK

N54 14.0 E050 04.0

At or above
FL49

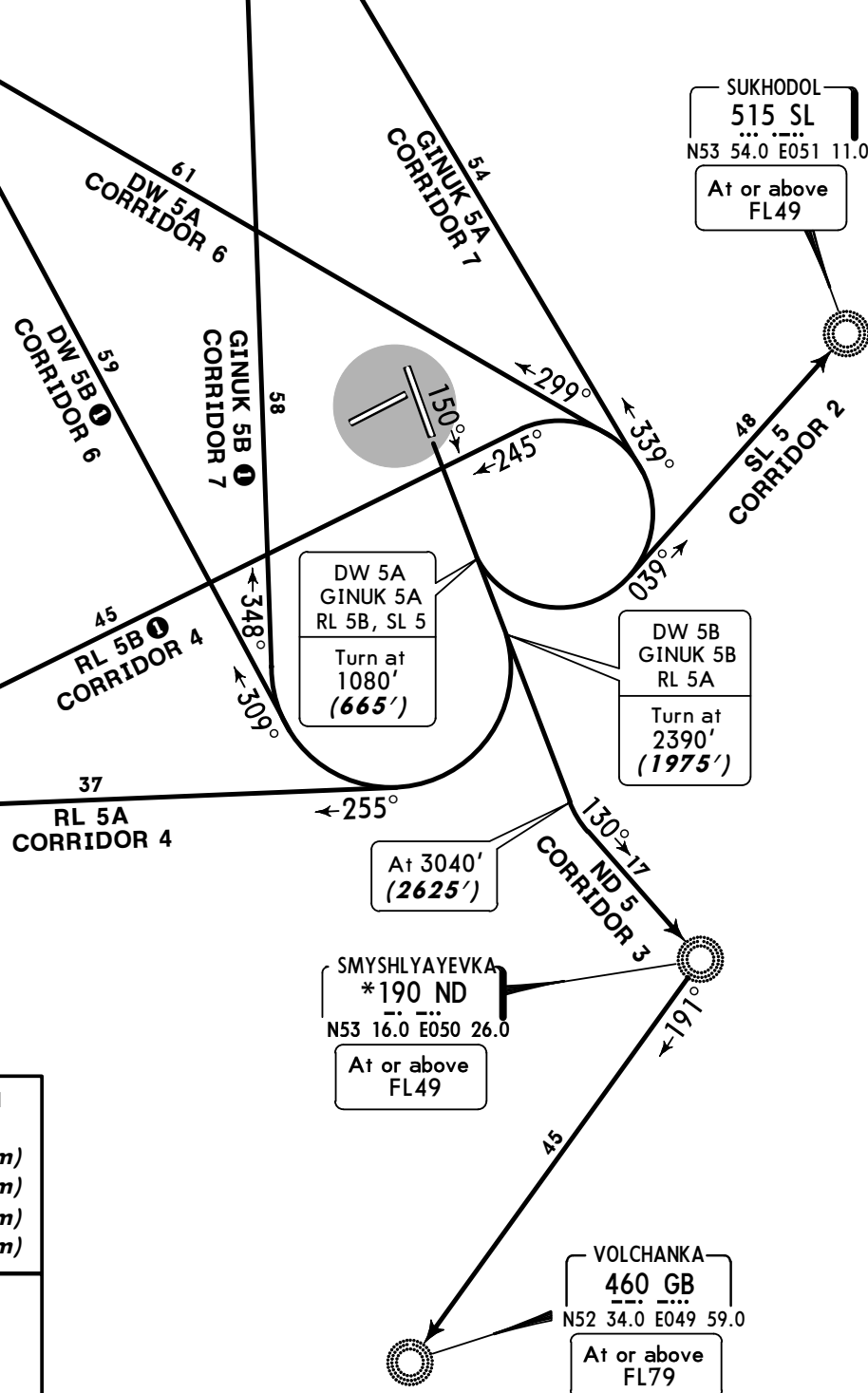
NIKOLSKOYE
99.5 DW
N54 02.0 E049 11.0

At or above
FL49

① By ATC.

ZHIGULI
1112 RL
N53 21.0 E049 18.0

At or above
FL59



ALT/HEIGHT CONVERSION

QNH	(QFE)
1080'	(665' - 200m)
2390'	(1975' - 600m)
3040'	(2625' - 800m)
3430'	(3015' - 900m)

FL CONVERSION

FL49	<i>FL1500m</i>
FL59	<i>FL1800m</i>
FL79	<i>FL2400m</i>

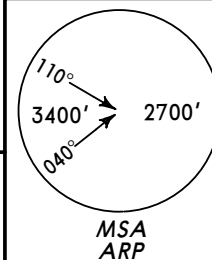
UWWW/KUF
KURUMOCH

JEPPESEN
18 AUG 06 **10-3C** Eff 31 Aug

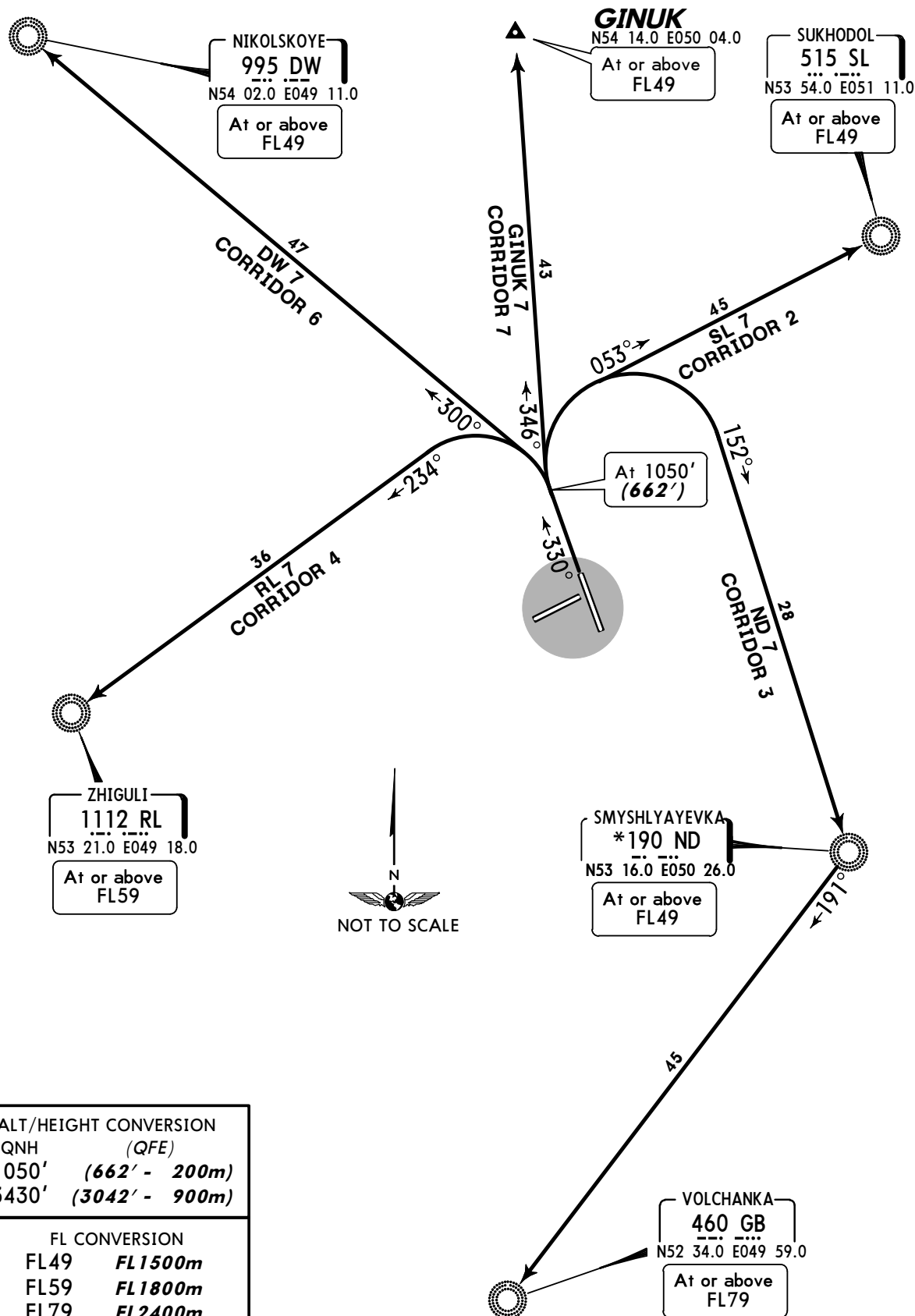
SAMARA, RUSSIA
SID

Apt Elev
477'

QNH on request (QFE)
Trans level: By ATC Trans alt: 3430' (3042')
Take-off should be carried out according to noise abatement procedures and flights should be conducted in accordance with ACFT performance requirements.



DW 7, GINUK 7, ND 7, RL 7, SL 7
RWY 33 DEPARTURES



ALT/HEIGHT CONVERSION
QNH (QFE)
1050' (662' - 200m)
3430' (3042' - 900m)

FL CONVERSION
FL49 FL1500m
FL59 FL1800m
FL79 FL2400m

UWWW/KUF
KURUMOCHJEPPESEN
31 OCT 03 10-4SAMARA, RUSSIA
NOISE

NOISE ABATEMENT

LOCAL TIME - 4 = UTC(Z)

GENERAL

Noise abatement procedures shall be executed by all aircraft, except in case of reduction of flight safety and in case of engine failure.

Overflying of Samara City and Beryeza during approach phase is prohibited.

DEPARTURES

Restrictions

Take-off with tailwind component up to 5m/sec is allowed under following conditions:

- runway is dry or damp
- friction coefficient is 0.5 or more
- crosswind component is not more than 5m/sec.

During take-off from both runways it is necessary to follow strictly the departure procedure to avoid overflying the residential areas.

Between 2300-0700LT take-off shall usually be carried out on runways 05 and 15.

Special take-off procedures shall be carried out on runways 23 and 33.

Runway 15

Take-off/departure along corridor 3 based on a straight ahead climb up to 3040' (2625' - 800m) before turning towards the corridor.

Take-off/departure along corridor 4 based on a straight ahead climb up to 2390' (1975' - 600m) before turning towards the corridor.

Take-off/departure along corridor 7 is by ATC permission only and based on a straight ahead climb up to 2390' (1975' - 600m) before turning towards the corridors.

RUN-UP TESTS

Between 2300-0700LT engine run-up tests are prohibited on the bay near the hangar and on stands 15 and 16.

UWWW/KUF

Apt Elev **477'**
N53 30.1 E050 09.3

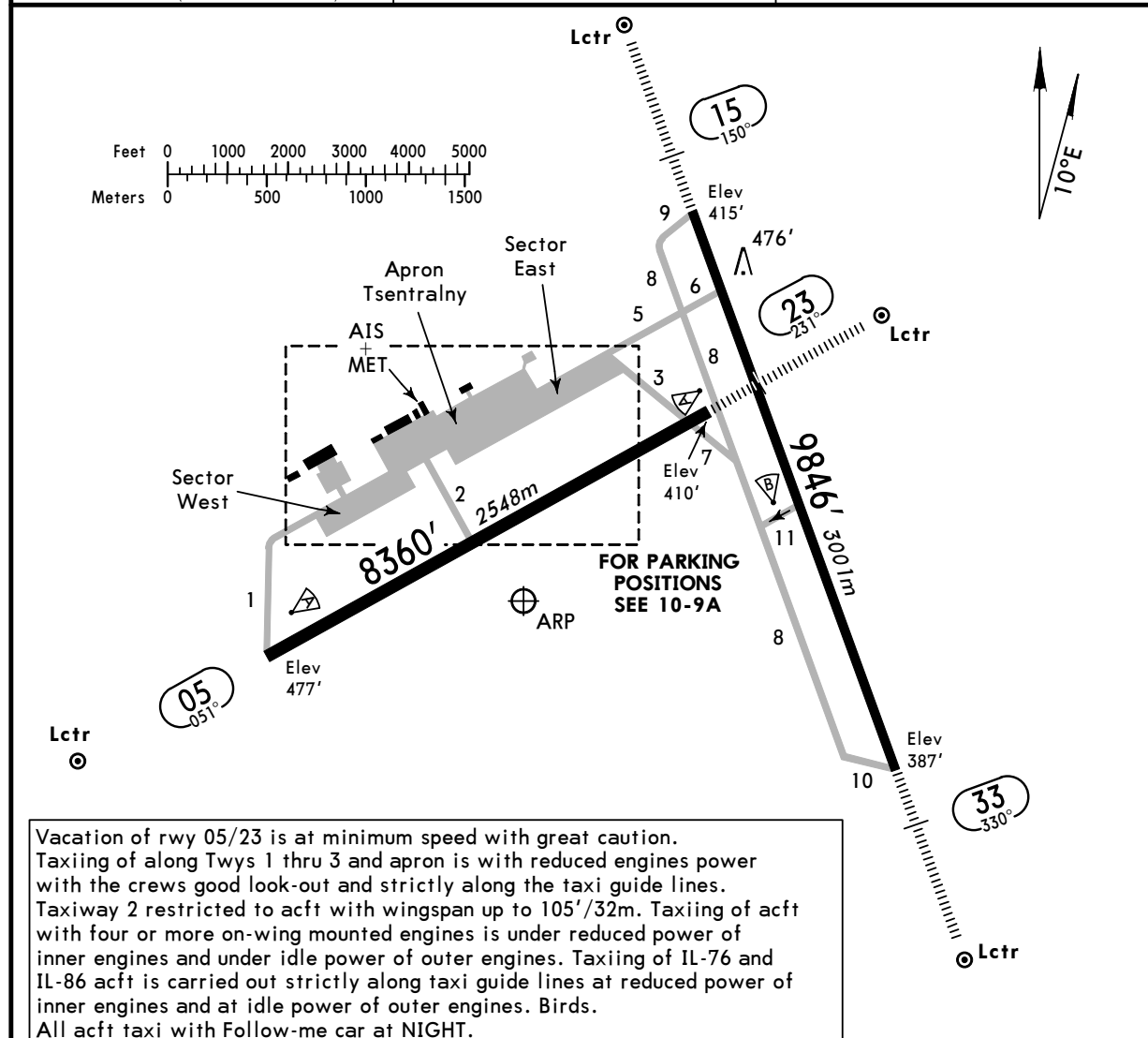
JEPPESEN

5 DEC 08 **(10-9)** Eff 18 Dec

SAMARA, RUSSIA

KURUMOCH

ATIS	SAMARA Taxiing (GND)	Start (TWR)
131.3 (Russian 134.9)	119.0	118.2



ADDITIONAL RUNWAY INFORMATION

					USABLE LENGTHS			TAKE-OFF	WIDTH
					LANDING BEYOND				
RWY					Threshold	Glide Slope			
05 23	HIRL (60m) RVR								197'
	HIRL (60m) HIALS PAPI-L (angle 2.67°) RVR					7084' 2159m		60m	
15 33	HIRL (60m) HIALS PAPI-L (angle 2.67°) RVR					9056' 2760m		148'	
	HIRL (60m) HIALS RVR					8571' 2612m		45m	

❶ IL-86 acft with AUW exceeding 190 tons may not use rwy 05/23.

TAKE-OFF

AIR CARRIER (JAA)

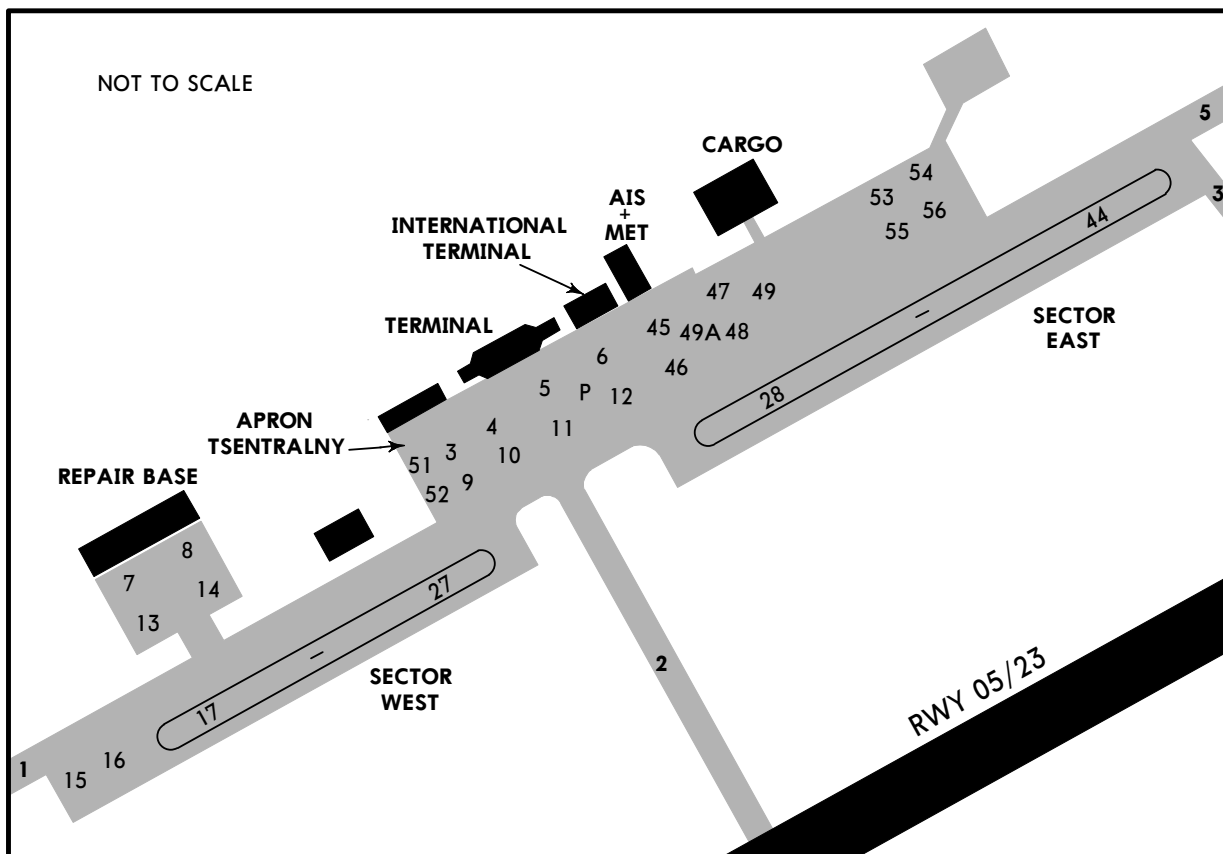
All Rwys

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

UWWW/KUF

5 DEC 08 **10-9A** Eff 18 Dec

SAMARA, RUSSIA
 KURUMOCH



INS COORDINATES

STAND No.	COORDINATES	STAND No.	COORDINATES
22, 23	N53 30.3 E050 08.7	29	N53 30.4 E050 09.2
24, 25	N53 30.3 E050 08.8	30, 31	N53 30.5 E050 09.2
26	N53 30.3 E050 08.9	32, 33	N53 30.5 E050 09.3
27	N53 30.4 E050 08.9		
28	N53 30.4 E050 09.1		

Stands 15 and 16 available for run-up.
 Stands 53 thru 56 available for helicopters.
 Taxiing under own engines power is prohibited for IL-76 and IL-86 acft on the apron segment between stands 15-27.

UWWW/KUF


JEPPESEN
 20 MAR 09 **10-9S**
Standard
SAMARA, RUSSIA
KURUMOCH

STRAIGHT-IN RWY		A	B	C	D
05	RNAV ①	890' (413') R1500m	890' (413') R1500m	890' (413') R1900m	890' (413') R1900m
	NDB ①	890' (413') R1900m	890' (413') R1900m	890' (413') R1900m	890' (413') R1900m
15	ILS	615' (200')	615' (200')	615' (200')	615' (200')
	<i>FULL</i>	R550m	R550m	R550m	R550m
	<i>Limited</i>	R750m	R750m	R750m	R750m
	<i>ALS out</i>	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	RNAV ①	930' (515') R1500m	930' (515') R1500m	930' (515') R1600m	930' (515') R1600m
	<i>ALS out</i>	R1500m	R1500m	C2400m	C2400m
	NDB ①	770' (355') R1000m	770' (355') R1000m	770' (355') R1200m	770' (355') R1200m
	<i>ALS out</i>	R1500m	R1500m	R1500m	R1500m
23	ILS	610' (200')	610' (200')	610' (200')	610' (200')
	<i>FULL</i>	R550m	R550m	R550m	R550m
	<i>Limited</i>	R750m	R750m	R750m	R750m
	<i>ALS out</i>	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	RNAV ①	890' (480') R1500m	890' (480') R1500m	890' (480') R1500m	890' (480') R1500m
	<i>ALS out</i>	R1500m	R1500m	C2200m	C2200m
	NDB ①	760' (350') R1000m	760' (350') R1000m	760' (350') R1200m	760' (350') R1200m
	<i>ALS out</i>	R1600m	R1600m	R1600m	R1600m
33	ILS	588' (200')	588' (200')	588' (200')	588' (200')
	<i>FULL</i>	R550m	R550m	R550m	R550m
	<i>Limited</i>	R750m	R750m	R750m	R750m
	<i>ALS out</i>	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	RNAV ①	770' (382') R1100m	770' (382') R1100m	770' (382') R1100m	770' (382') R1100m
	<i>ALS out</i>	R1500m	R1500m	R1800m	R1800m
	NDB ①	740' (352') R1000m	740' (352') R1000m	740' (352') R1200m	740' (352') R1200m
	<i>ALS out</i>	R1600m	R1600m	R1600m	R1600m

① Continuous Descent Final Approach

TAKE-OFF RWY 05, 15, 23, 33

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		

UWWW/KUF

JEPPESEN

11 OCT 02

10-9X

JAA MINIMUMS

SAMARA, RUSSIA
KURUMOCH

STRAIGHT-IN RWY		A	B	C	D
05	PAR	677' (200')	677' (200')	677' (200')	682' (205')
		R1000m	R1000m	R1000m	R1000m
	NDB	890' (413')	890' (413')	890' (413')	890' (413')
		R1500m	R1500m	R1800m	R2000m
	GNSS	890' (413')	890' (413')	890' (413')	890' (413')
		R1500m	R1500m	R1800m	R2000m
15	ILS	615' (200')	615' (200')	615' (200')	615' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	NDB	750' (335')	750' (335')	750' (335')	750' (335')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	GNSS	930' (515')	930' (515')	930' (515')	930' (515')
		R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m
23	ILS	610' (200')	610' (200')	610' (200')	610' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	PAR	623' (213')	633' (223')	643' (233')	653' (243')
		R600m	R600m	R600m	R600m
	ALS out	R1000m	R1000m	R1000m	R1000m
	NDB	750' (340')	750' (340')	750' (340')	750' (340')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	GNSS	890' (480')	890' (480')	890' (480')	890' (480')
		R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m
33	ILS	587' (200')	587' (200')	587' (200')	587' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	NDB	720' (333')	720' (333')	720' (333')	720' (333')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	GNSS	770' (383')	770' (383')	770' (383')	930' (513')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m

TAKE-OFF RWY 05, 15, 23, 33

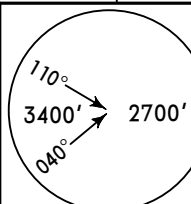
LVP must be in Force		
	RCLM (DAY only) or RL	RCLM (DAY only) or RL
A	250m	400m
B		
C		
D	300m	NIL (DAY only)

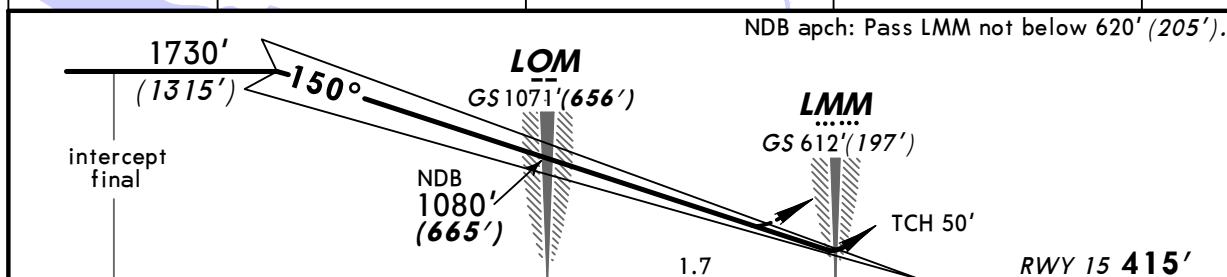
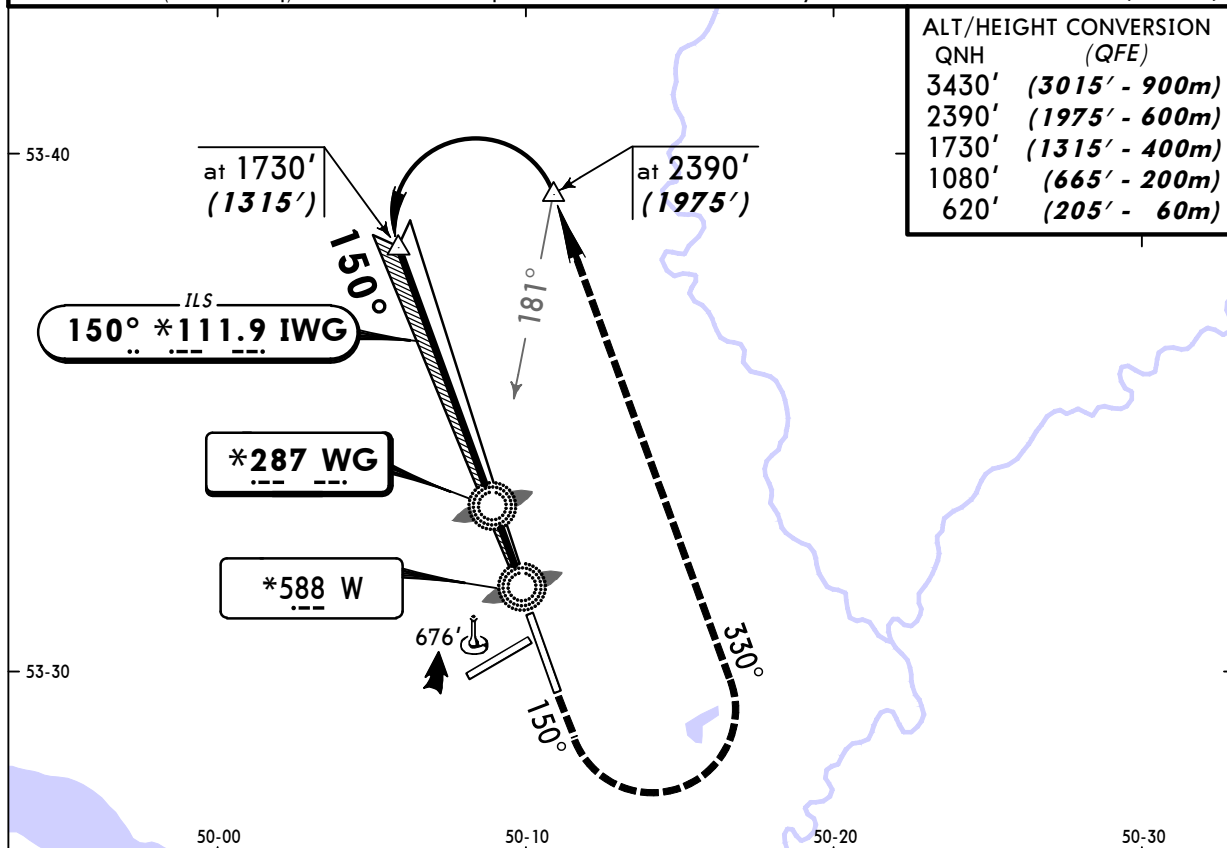
UWWW/KUF
KURUMOCH

JEPPESEN
1 AUG 08 (11-1)

SAMARA, RUSSIA
ILS or 2 NDB Rwy 15

BRIEFING STRIP

ATIS		SAMARA Apch 1 (R)	*SAMARA Apch 2 (R)	SAMARA Krug (SRE)	SAMARA Tower (TWR/PAR)	SAMARA Start (TWR)	Ground
131.3 (Russian 134.9)		124.6	118.7	128.0	118.2	118.2	119.0
LOC IWG *111.9	Final Apch Crs 150°	GS LOM 1071' (656')	ILS DA(H) 615' (200')	Apt Elev 477' RWY 415'			
NDB WG *287		Minimum Alt LOM 1080' (665')	NDB MDA(H) 750' (335')				
MISSED APCH: Climb on 150° to 1080' (665'), then turn LEFT onto 330° climbing to 2390' (1975'), then according to chart.							
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: By ATC		Trans alt: 3430' (3015')	



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1080' (665')	150°	330°	2390' (1975')
ILS GS 2.67° or NDB Desc Grad 4.7%	336	432	480	576	671	767	PAPI	↑	↑	↑	↑

STRAIGHT-IN LANDING RWY 15					
ILS		LOC (GS out)		NDB	
DA(H) 615' (200')				MDA(H) 750' (335')	
FULL	ALS out				ALS out
A					
B					
C	RVR 720m VIS 800m	1200m	NOT AUTHORIZED	1200m	1900m
D				RVR 1500m VIS 1600m	

PANS OPS

UWWW/KUF
KURUMOCH

1 AUG 08

JEPPESEN
11-2

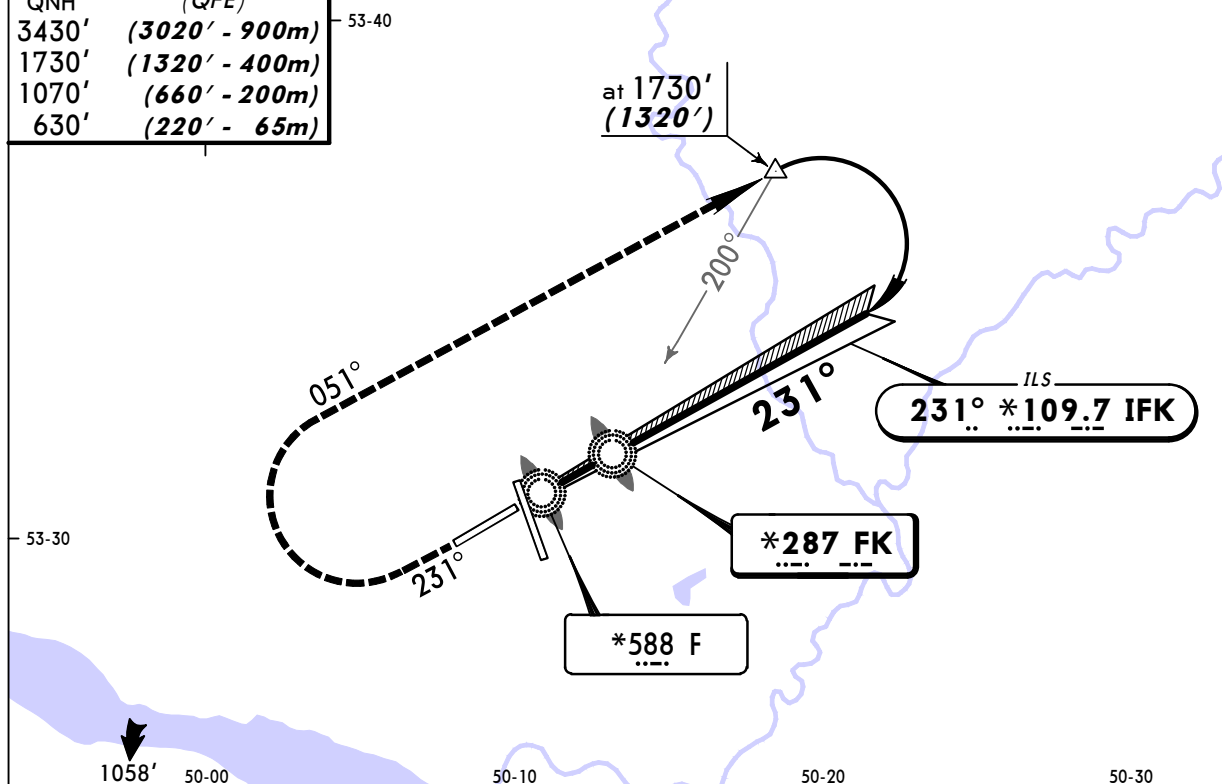
SAMARA, RUSSIA
ILS or 2 NDB Rwy 23

BRIEFING STRIP

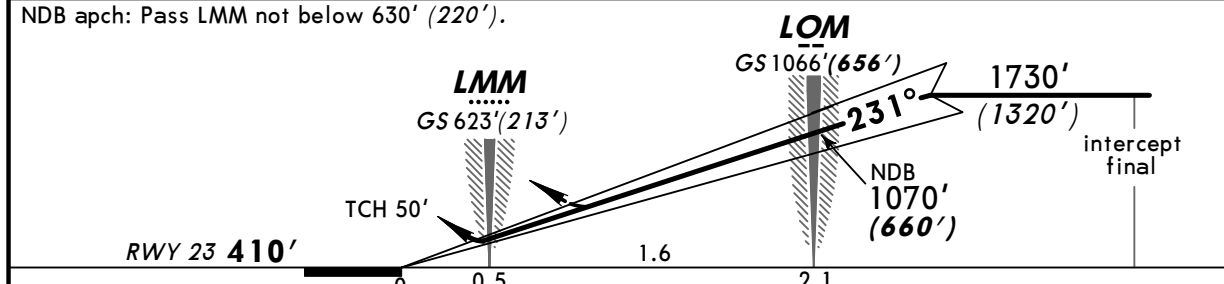
ATIS		SAMARA Apch 1 (R)		*SAMARA Apch 2 (R)		SAMARA Krug (SRE)		SAMARA Tower (TWR/PAR)		SAMARA Start (TWR)		Ground	
131.3 (Russian 134.9)		124.6		118.7		128.0		118.2		118.2		119.0	
LOC IFK *109.7		Final Apch Crs 231°		GS LOM 1066' (656')		ILS DA(H) 610' (200')		Apt Elev 477' RWY 410'		110° 3400' → 2700' 040° MSA ARP			
NDB FK *287				Minimum Alt LOM 1070' (660')		NDB MDA(H) 750' (340')							
MISSED APCH: Climb on 231° to 1070' (660'), then turn RIGHT onto 051° climbing to 1730' (1320'), then according to chart.													
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: By ATC				Trans alt: 3430' (3020')					

ALT/HEIGHT CONVERSION

QNH	(QFE)
3430'	(3020' - 900m)
1730'	(1320' - 400m)
1070'	(660' - 200m)
630'	(220' - 65m)



NDB apch: Pass LMM not below 630' (220').



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1070' (660')	231°	051°	1730' (1320')
ILS GS 2.67° or NDB Desc Grad 4.7%	336	432	480	576	671	767	PAPI	↑	↑	↑	↑

PANS OPS

ILS		LOC (GS out)		NDB	
DA(H) 610' (200')				MDA(H) 750' (340')	
FULL	ALS out				ALS out
A					
B					
C	RVR 720m VIS 800m	NOT AUTHORIZED		1200m	RVR 1500m VIS 1600m
D				RVR 1500m VIS 1600m	

CHANGES: ATIS. TCH.

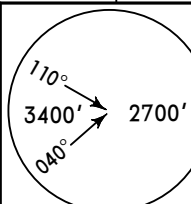
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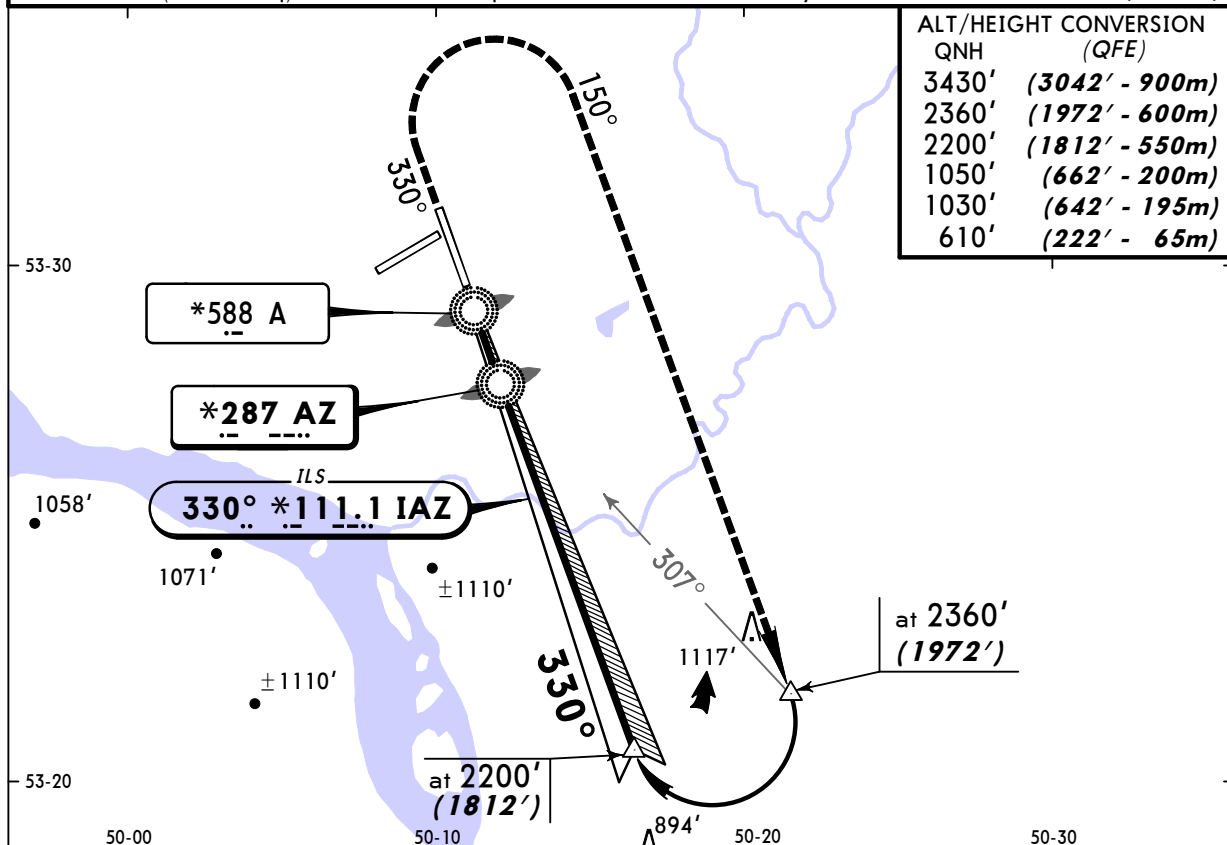
UWWW/KUF
KURUMOCH

1 AUG 08

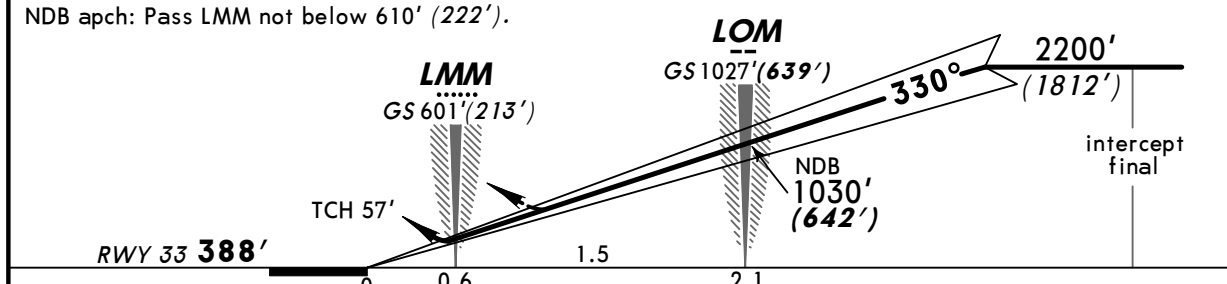
JEPPESEN
11-3SAMARA, RUSSIA
ILS or 2 NDB Rwy 33

BRIEFING STRIP™

ATIS		SAMARA Apch 1 (R)	*SAMARA Apch 2 (R)	SAMARA Krug (SRE)	SAMARA Tower (TWR/PAR)	SAMARA Start (TWR)	Ground			
131.3 (Russian 134.9)		124.6	118.7	128.0	118.2	118.2	119.0			
LOC IAZ *111.1	Final Apch Crs 330°	GS LOM 1027' (639')	ILS DA(H) 588' (200')	Apt Elev 477' RWY 388'						
NDB AZ *287		Minimum Alt LOM 1030' (642')	NDB MDA(H) 720' (332')							
MISSED APCH: Climb on 330° to 1050' (662'), then turn RIGHT onto 150° climbing to 2360' (1972'), then according to chart.								MSA ARP		
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: By ATC				Trans alt: 3430' (3042')		



NDB apch: Pass LMM not below 610' (222').



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1050' (662') on 330°	150°	2360' (1972')
ILS GS 2.67° or NDB Desc Grad 4.7%	336	432	480	576	671	767			RT	

PANS OPS

STRAIGHT-IN LANDING RWY 33					
ILS		LOC (GS out)	NDB		
DA(H) 588' (200')			MDA(H) 720' (332')		
FULL	ALS out			ALS out	
A					
B					
C	RVR 720m VIS 800m	1200m	NOT AUTHORIZED	1200m RVR 1500m VIS 1600m	
D				RVR 1500m VIS 1600m	

CHANGES: ATIS. TCH.

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UWWW/KUF
KURUMOCH

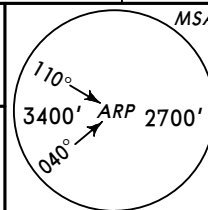
JEPPESEN
1 AUG 08 (12-1)

SAMARA, RUSSIA
GNSS Rwy 05

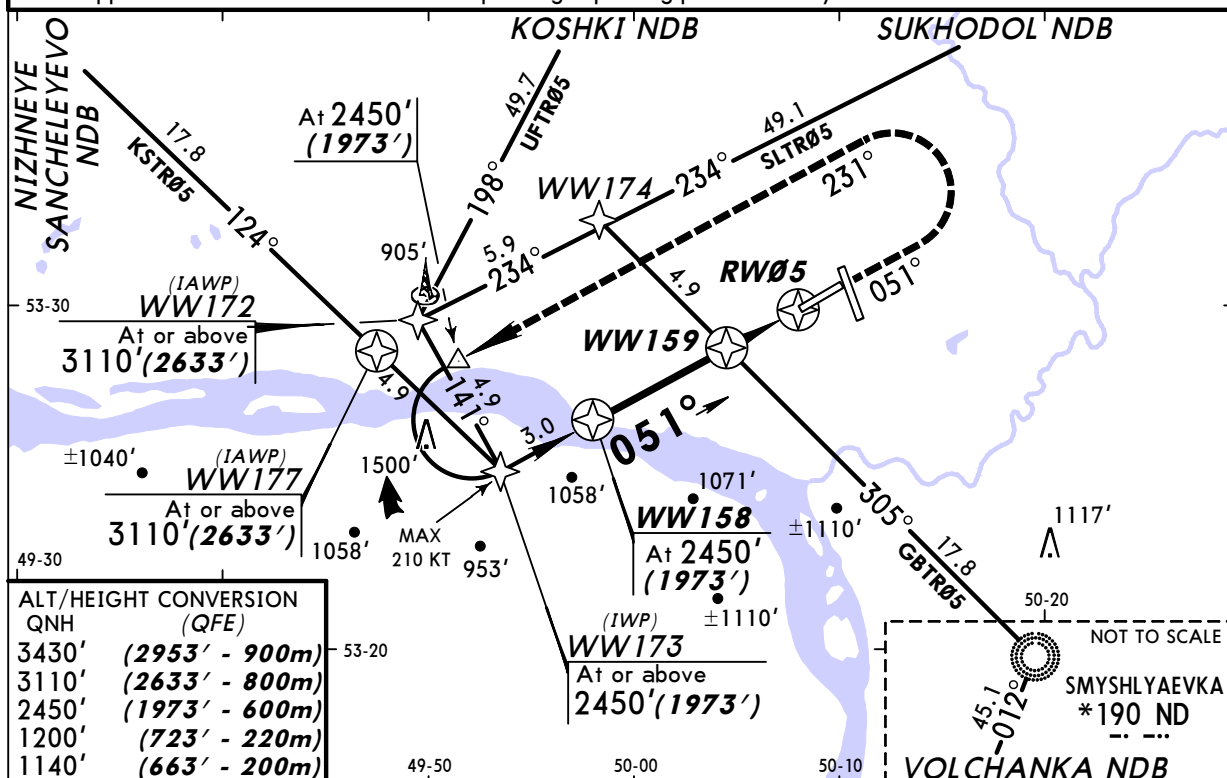
BRIEFING STRIP

ATIS	SAMARA Apch 1 (R)	*SAMARA Apch 2 (R)	SAMARA Krug (SRE)	SAMARA Tower (TWR/PAR)	SAMARA Start (TWR)	Ground
131.3 (Russian 134.9)	124.6	118.7	128.0	118.2	118.2	119.0
GNSS	Final Apch Crs	Minimum Alt WW158	MDA(H)	Apt Elev 477'	MSA	
	051°	2450' (1973')	890' (413')	RWY 477'		

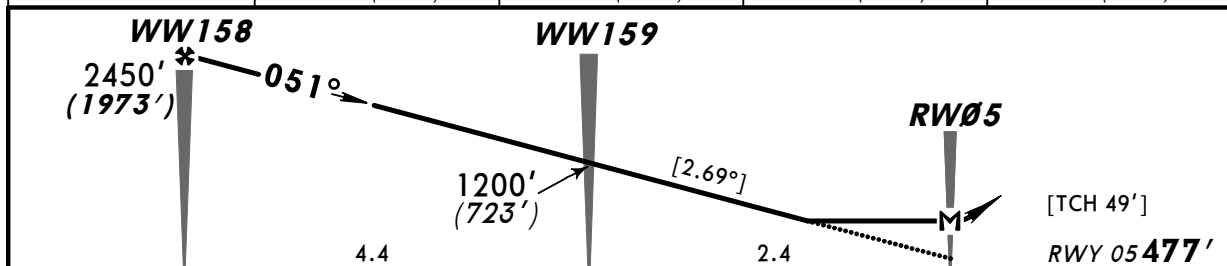
MISSED APCH: Climb on 051° to 1140' (663'), then turn LEFT onto 231° climbing to 2450' (1973'), then according to Instrument Approach route.



Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3430' (2953')
1. The arrival and approach by using the RNAV procedure based on navigation satellite system GLONASS-GPS are available under approval (permit) of Russian FAA. 2. Aircrews shall request the permission for GNSS approach from APP controller when passing reporting point of entry corridor.



DIST to WW159	3.2	2.7	2.2	1.6	1.1	0.5
ALTITUDE (HAT)	2120' (1643')	1970' (1493')	1810' (1333')	1660' (1183')	1510' (1033')	1370' (893')
DIST to RW05	2.2	1.6	1.1	0.5		
ALTITUDE (HAT)	1140' (663')	990' (513')	840' (363')	680' (203')		



MAP at RW05						
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STRAIGHT-IN LANDING RWY 05		MDA(H) 890' (413')	
A	RVR 1500m VIS 1600m		
B			
C	RVR 1800m VIS 2000m		
D			

PANS OPS

UWWW/KUF
KURUMUCH

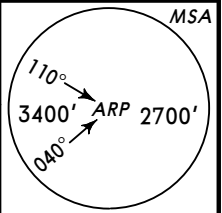
JEPPESEN
1 AUG 08 (12-2)

SAMARA, RUSSIA
GNSS Rwy 15

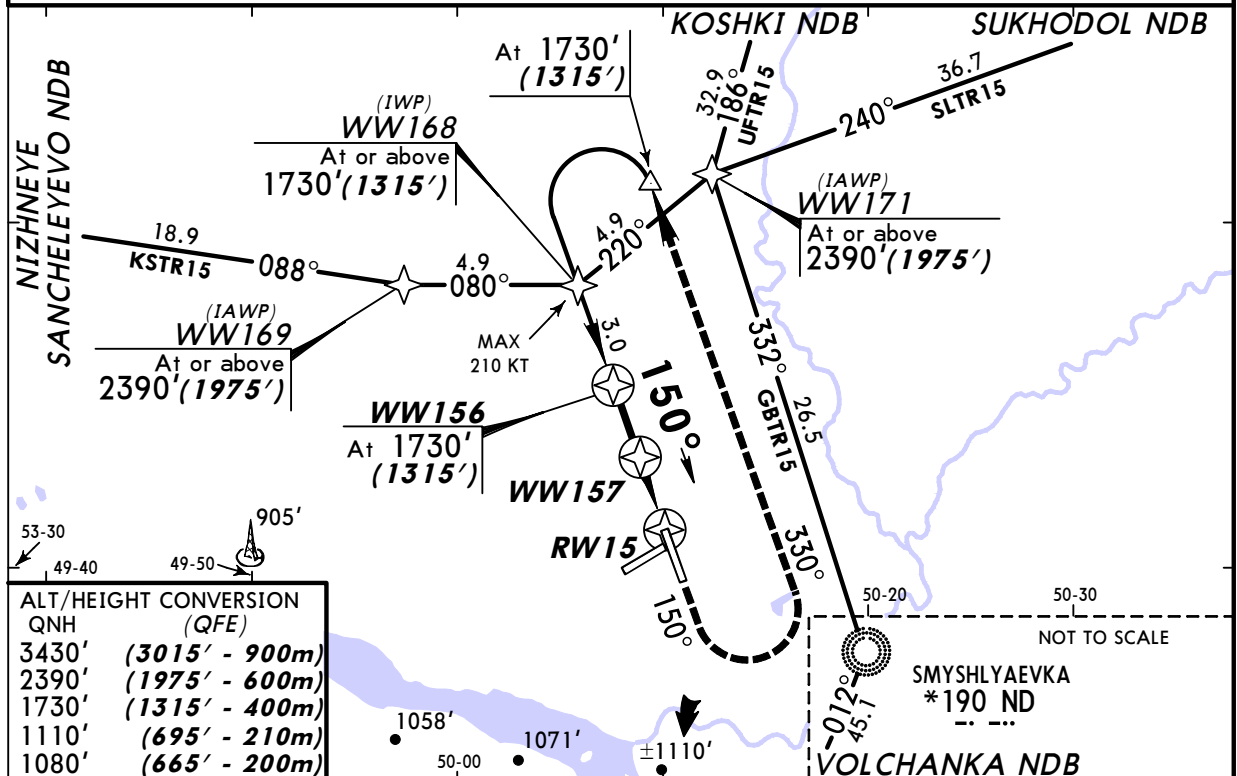
BRIEFING STRIP

ATIS	SAMARA Apch 1 (R)	*SAMARA Apch 2 (R)	SAMARA Krug (SRE)	SAMARA Tower (TWR/PAR)	SAMARA Start (TWR)	Ground
131.3 (Russian 134.9)	124.6	118.7	128.0	118.2	118.2	119.0
GNSS	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev	MSA	
	150°	1730' (1315')	930' (515')	477' RWY 415'		

MISSED APCH: Climb on 150° to 1080' (665'), then turn LEFT onto 330° climbing to 1730' (1315'), then according to Instrument Approach route.

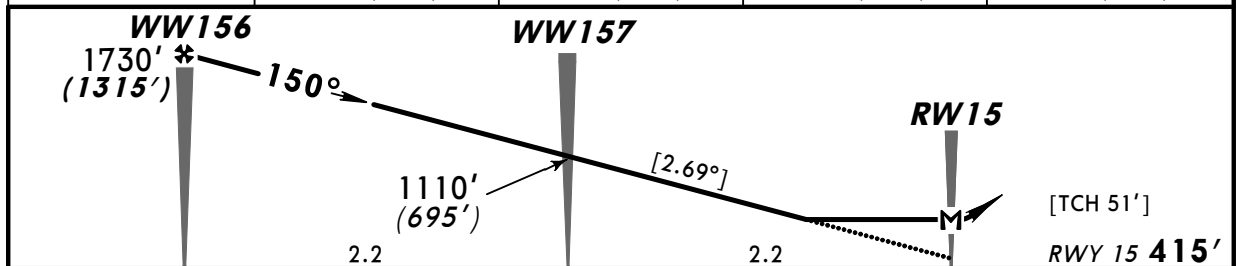


Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3430' (3015')
1. The arrival and approach by using the RNAV procedure based on navigation satellite system GLONASS-GPS are available under approval (permit) of Russian FAA. 2. Aircrews shall request the permission for GNSS approach from APP controller when passing reporting point of entry corridor.



ALT/HEIGHT CONVERSION	QNH	(QFE)
3430'	(3015' - 900m)	
2390'	(1975' - 600m)	
1730'	(1315' - 400m)	
1110'	(695' - 210m)	
1080'	(665' - 200m)	

DIST to WW157	2.2	1.6	1.1	0.5
ALTITUDE (HAT)	1720' (1305')	1550' (1135')	1400' (985')	1260' (845')
DIST to RW15	2.2	1.6	1.1	0.5
ALTITUDE (HAT)	1080' (665')	930' (515')	780' (365')	620' (205')



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1080' (665')	150°	330°	1730' (1315')
Descent angle [2.69°]	333	428	476	571	666	761	PAPI				
MAP at RW15											

STRAIGHT-IN LANDING RWY 15		MDA(H) 930' (515')	
		ALS out	
A	RVR 720m VIS 800m	RVR 1500m VIS 1600m	
B			
C	RVR 1500m VIS 1600m	2400m	
D	RVR 1800m VIS 2000m	2800m	

PANS OPS

UWWW/KUF
KURUMOCHJEPPESEN
1 AUG 08 (12-3)SAMARA, RUSSIA
GNSS Rwy 23

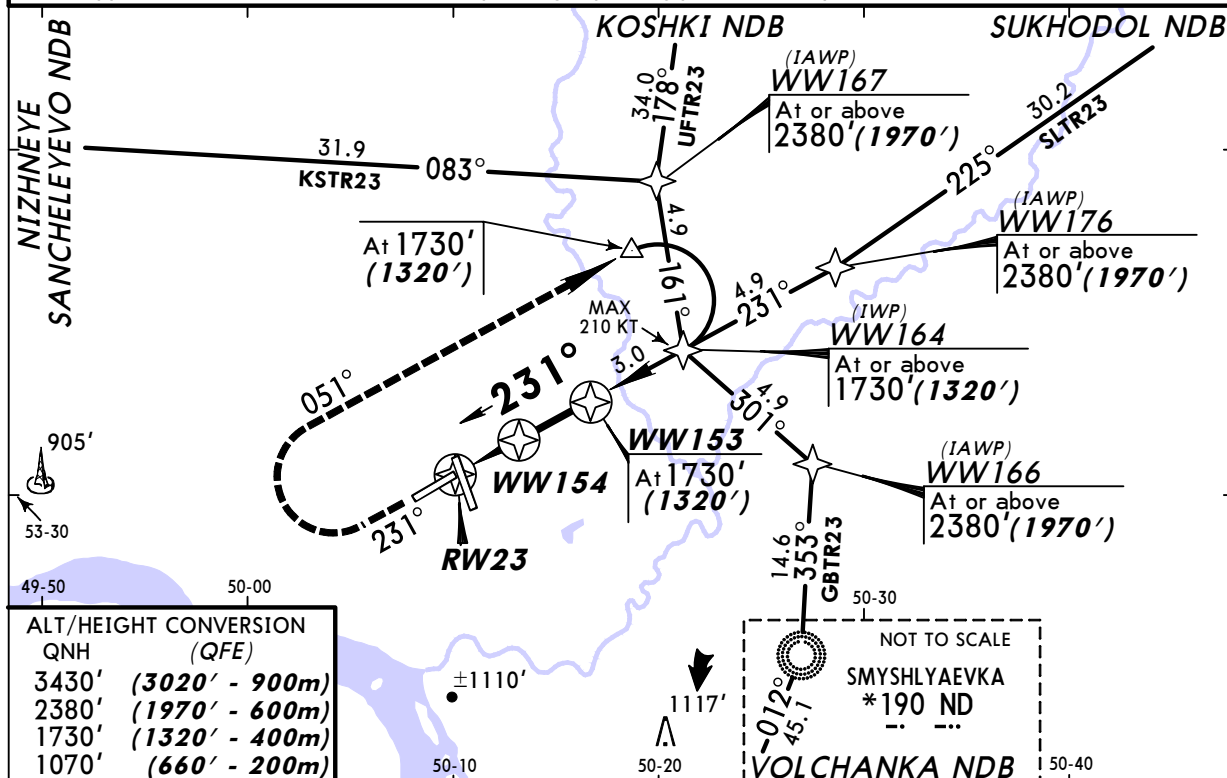
BRIEFING STRIP

ATIS	SAMARA Apch 1 (R)	*SAMARA Apch 2 (R)	SAMARA Krug (SRE)	SAMARA Tower (TWR/PAR)	SAMARA Start (TWR)	Ground
131.3 (Russian 134.9)	124.6	118.7	128.0	118.2	118.2	119.0
GNSS	Final Apch Crs	Minimum Alt WW153	MDA(H)	Apt Elev 477'	MSA	
	231°	1730' (1320')	890' (480')	RWY 410'		

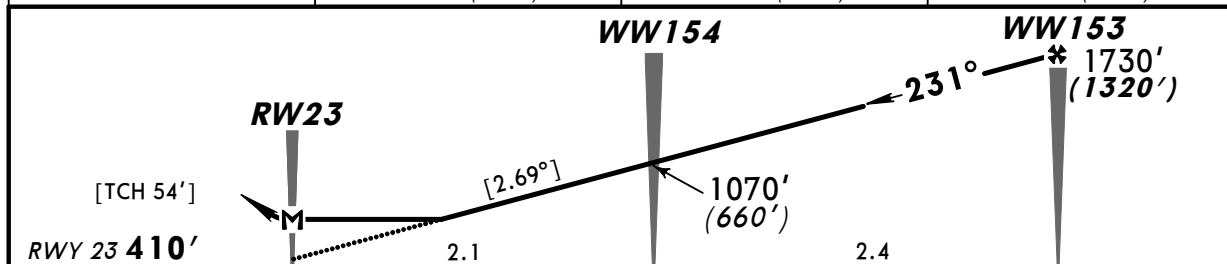
MISSED APCH: Climb on 231° to 1070' (660'), then turn RIGHT onto 051° climbing to 1730' (1320'), then according to Instrument Approach route.

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3430' (3020')

1. The arrival and approach by using the RNAV procedure based on navigation satellite system GLONASS-GPS are available under approval (permit) of Russian FAA. 2. Aircrews shall request the permission for GNSS approach from APP controller when passing reporting point of entry corridor.



DIST to WW154	0.5	1.1	1.6	2.2
ALTITUDE (HAT)	1220' (810')	1370' (960')	1530' (1120')	1680' (1270')
DIST to RW23	0.5	1.1	1.6	
ALTITUDE (HAT)	610' (200')	780' (370')	920' (510')	



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1070' (660')	231°	051°	1730' (1320')
Descent angle [2.69°]	333	428	476	571	666	761	PAPI	↑	RT	↑	
MAP at RW23											

PANS OPS

STRAIGHT-IN LANDING RWY 23			
MDA(H) 890' (480')		ALS out	
A	RVR 720m VIS 800m	RVR 1500m VIS 1600m	
B			
C	1200m	RVR 1800m VIS 2000m	
D	RVR 1500m VIS 1600m	2400m	

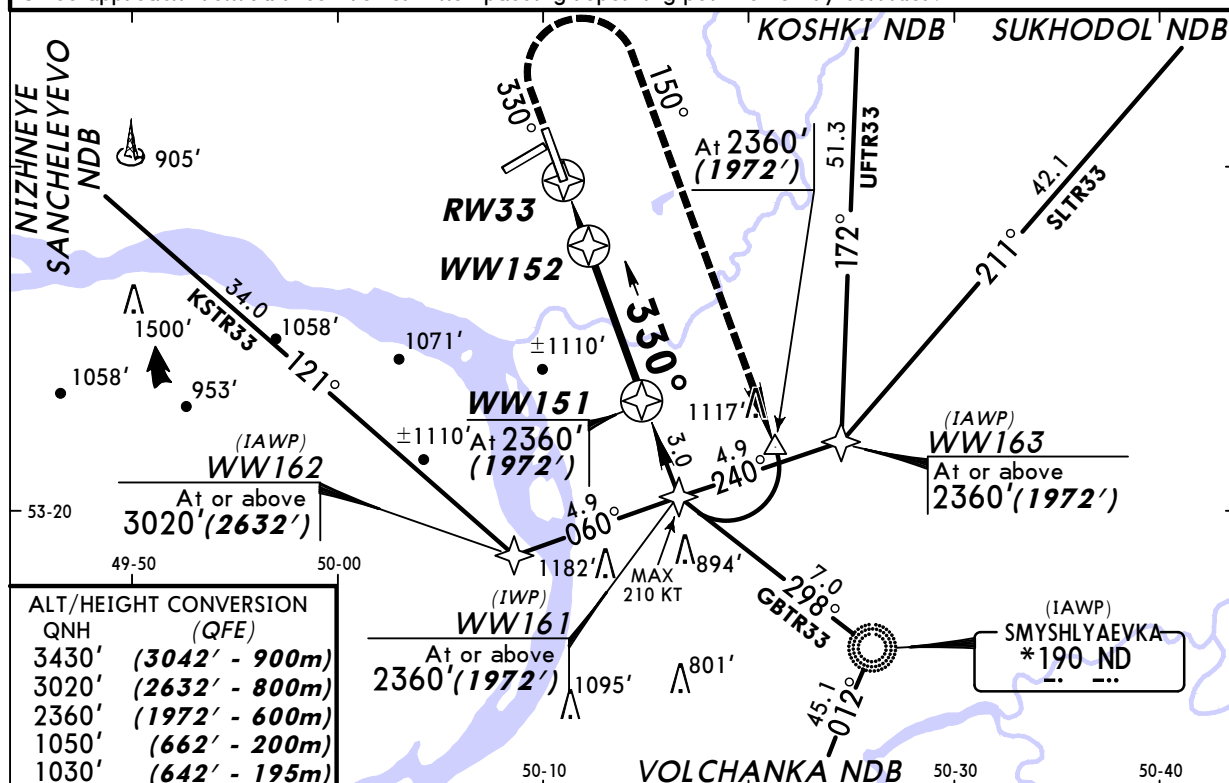
UWWW/KUF
KURUMOCHJEPPESEN
1 AUG 08 (12-4)SAMARA, RUSSIA
GNSS Rwy 33

BRIEFING STRIP

ATIS	SAMARA Apch 1 (R)	*SAMARA Apch 2 (R)	SAMARA Krug (SRE)	SAMARA Tower (TWR/PAR)	SAMARA Start (TWR)	Ground
131.3 (Russian 134.9)	124.6	118.7	128.0	118.2	118.2	119.0
GNSS	Final Apch Crs	Minimum Alt WW151	MDA(H)	Apt Elev 477'	MSA	
	330°	2360' (1972')	770' (382')	RWY 388'		

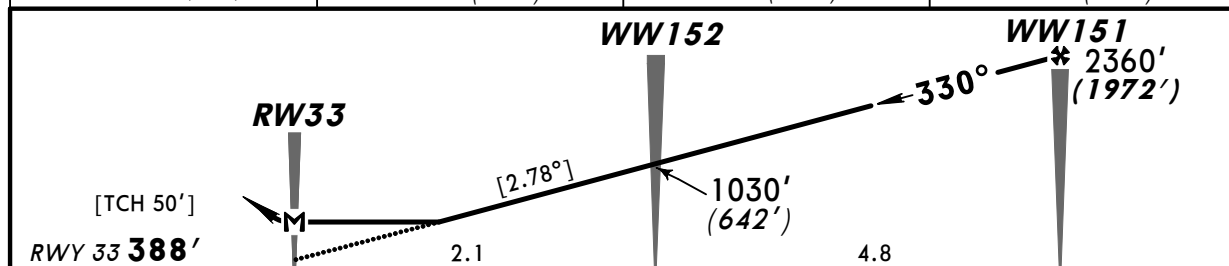
MISSED APCH: Climb on 330° to 1050' (662'), then turn RIGHT onto 150° climbing to 2360' (1972'), then according to Instrument Approach route.

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3430' (3042')
 1. The arrival and approach by using the RNAV procedure based on navigation satellite system GLONASS-GPS are available under approval (permit) of Russian FAA. 2. Aircrews shall request the permission for GNSS approach from APP controller when passing reporting point of entry corridor.



ALT/HEIGHT CONVERSION	
QNH	(QFE)
3430'	(3042' - 900m)
3020'	(2632' - 800m)
2360'	(1972' - 600m)
1050'	(662' - 200m)
1030'	(642' - 195m)

DIST to WW152	0.5	1.1	1.6	2.2	2.7	3.2
ALTITUDE (HAT)	1180' (792')	1330' (942')	1490' (1102')	1640' (1252')	1790' (1402')	1950' (1562')
DIST to RW33	0.5	1.1	1.6			
ALTITUDE (HAT)	590' (202')	750' (362')	900' (512')			



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1050' (662') on 330°	150°	2360' (1972')
Descent angle [2.78°]	344	443	492	590	688	787			RT	
MAP at RW33										

STRAIGHT-IN LANDING RWY 33		ALS out	
MDA(H) 770' (382')			
A		B	
B	RVR 720m VIS 800m	C	RVR 1500m VIS 1600m
C		D	
D	1200m	E	RVR 1800m VIS 2000m

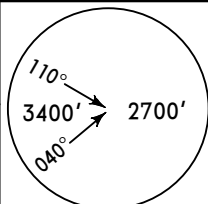
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JEPPESEN
1 AUG 08 **(16-1)**

SAMARA, RUSSIA
2 NDB Rwy 05

BRIEFING STRIP

ATIS	SAMARA Apch 1 (R)	*SAMARA Apch 2 (R)	SAMARA Krug (SRE)	SAMARA Tower (TWR/PAR)	SAMARA Start (TWR)	Ground
131.3 (Russian)	134.9 124.6	118.7	128.0	118.2	118.2	119.0
NDB BE *287	Final Apch Crs 051°	Minimum Alt LOM 1200' (723')	MDA(H) 890' (413')	Apt Elev 477' RWY 477'		

MISSED APCH: Climb on 051° to 1140' (663'), then turn LEFT onto 231° climbing to 2450' (1973'), then according to chart.

Alt Set: MM (hPa on req)

QNH on req (QFE)

Trans level: By ATC

Trans alt: 3430' (2953')

ALT/HEIGHT CONVERSION

QNH (QFE)

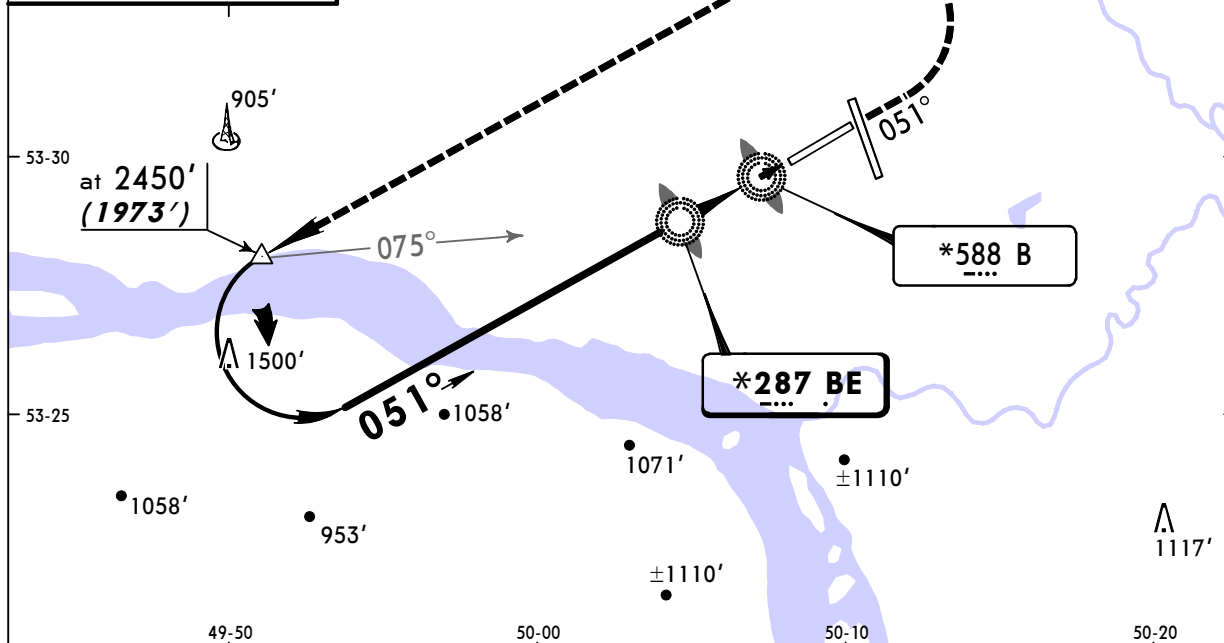
3430' (2953' - 900m)

2450' (1973' - 600m)

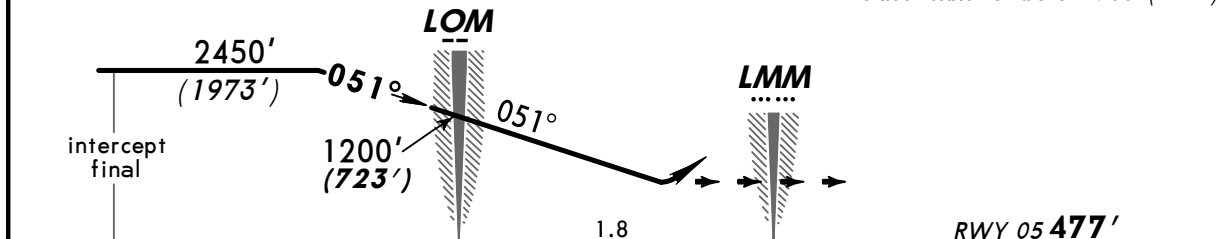
1200' (723' - 220m)

1140' (663' - 200m)

700' (223' - 65m)



Pass LMM not below 700' (223').



Gnd speed-Kts	70	90	100	120	140	160	1140' (663')	on 051°	231°	2450' (1973')
Descent Gradient 4.7%	333	428	476	571	666	762	↑	↑	↑	↑

STRAIGHT-IN LANDING RWY 05

MDA(H) 890' (413')

PANS OPS

A	2400m	
B		
C		
D		

CHANGES: ATIS.

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