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Airport Information For UWWW

Terminal Charts For UWWW

Revision Letter For Cycle 09-2019

Change Notices

Notebook

General Information

Location: SAMARA RUS
ICAO/IATA: UWWW / KUF
Lat/Long: N53° 30.1', E050° 09.2'
Elevation: 476 ft

Airport Use: Public
Daylight Savings: Not Observed
UTC Conversion: -4:00 = UTC
Magnetic Variation: 12.0° E

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

Sunrise: 0048 Z
Sunset: 1623 Z

Runway Information

Runway: 05
Length x Width: 8379 ft x 197 ft
Surface Type: asphalt
TDZ-Elev: 477 ft
Lighting: Edge, ALS

Runway: 15
Length x Width: 9846 ft x 148 ft
Surface Type: asphalt
TDZ-Elev: 421 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 23
Length x Width: 8379 ft x 197 ft
Surface Type: asphalt
TDZ-Elev: 412 ft
Lighting: Edge, ALS

Runway: 33
Length x Width: 9846 ft x 148 ft
Surface Type: asphalt
TDZ-Elev: 389 ft
Lighting: Edge, ALS, Centerline

Communication Information

ATIS: 134.100
ATIS: 134.900 Non-English
Samara Tower: 118.200
Samara Ground: 119.000
Samara Apron Ramp/Taxi: 118.800
Samara Approach: 124.600
Samara Radar: 128.000
Samara Transit Operations: 131.600

UWWW/KUF
KURUMOCH

JEPPESEN

1 DEC 17

10-1R

Eff 7 Dec

SAMARA, RUSSIA

RADAR MINIMUM ALTITUDES

SAMARA
Radar
128.0

Apt Elev
476'

Alt Set: MM (hPa on request)

QNH on request (QFE)

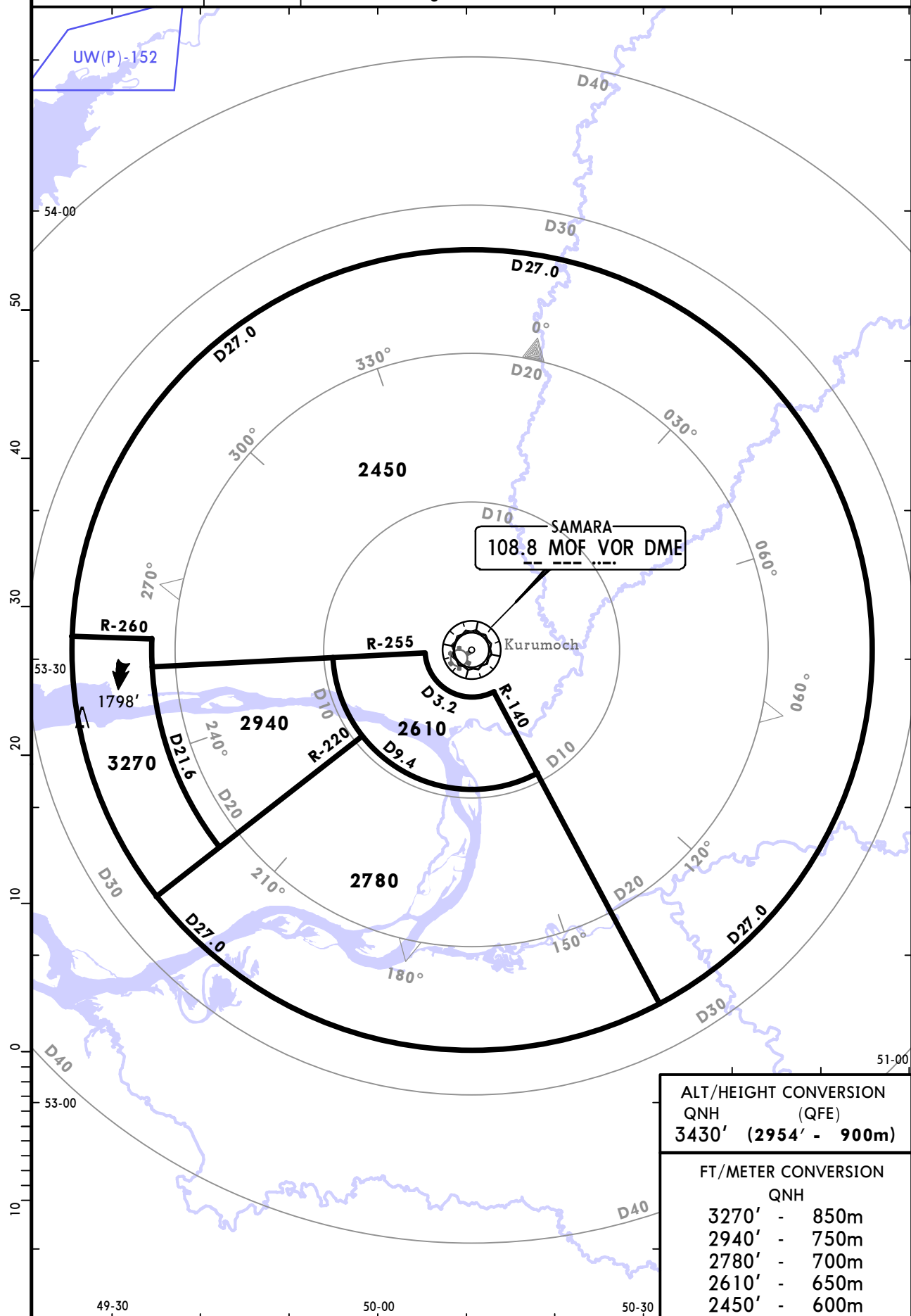
Trans level: FL50

FL60 if pressure is less than 749 mm (998.6 hPa)

FL70 if pressure is less than 722 mm (962.6 hPa)

Trans alt: 3430' (**2954'**)

Chart only to be used for cross-checking of altitudes assigned while under vectoring control.



CHANGES: New chart.

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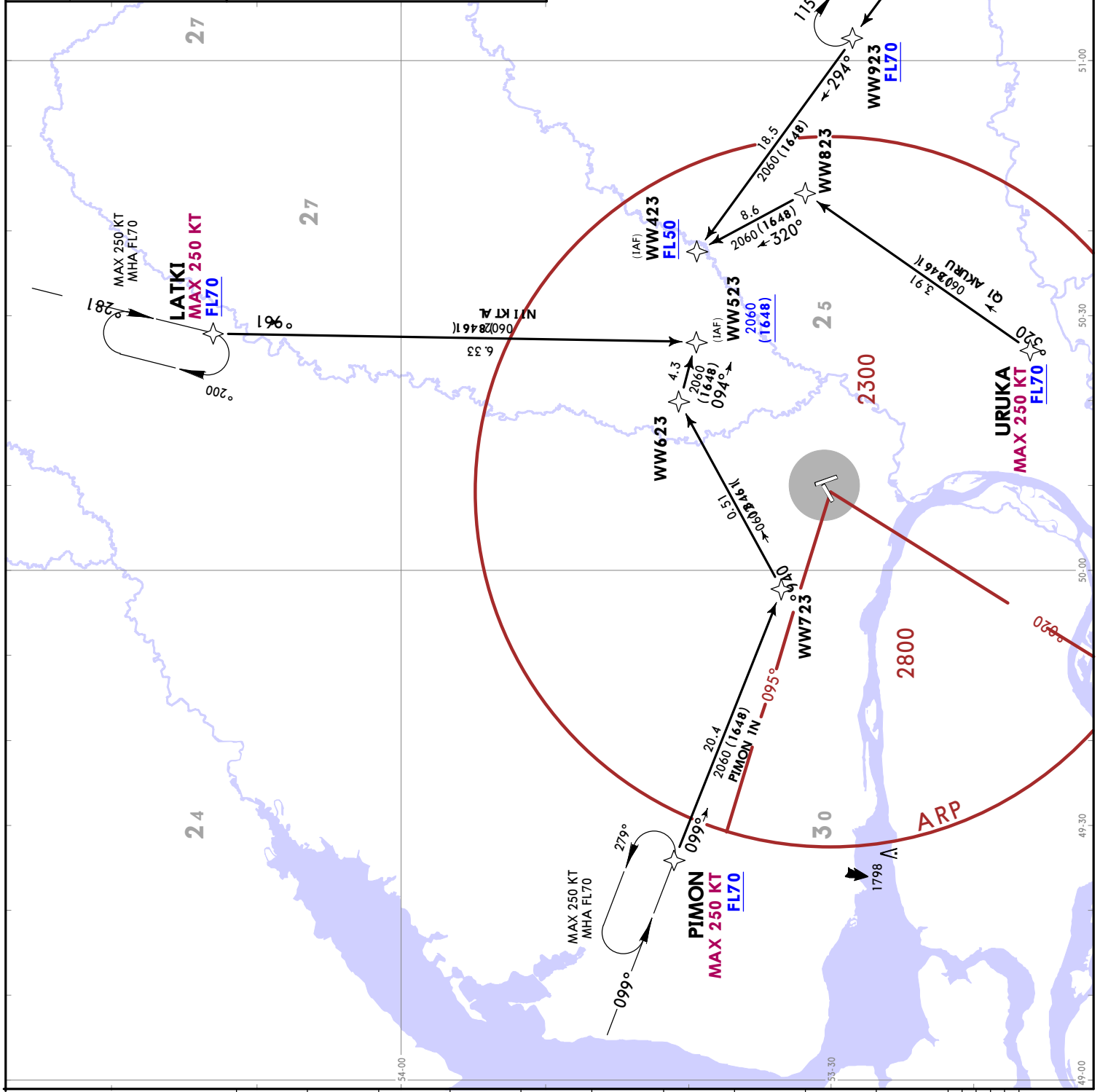
ATIS
134.1
(Russian 134.9)

Apt Elev
476

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL50
FL60 if pressure is less than 749 mm (998.6 hPa)
FL70 if pressure is less than 722 mm (962.6 hPa)
1. RNAV (GNSS).
2. RNAV 1.
3. If maintaining RNAV STAR is not possible, request vectoring.

LATKI 1N [LATK1N]
NELSI 1T [NELS1T]
PIMON 1N [PIMO1N]
URUKA 1Q [URUK1Q]
RWY 23 RNAV ARRIVALS
SPEED: MAX 250 KT BELOW FL100

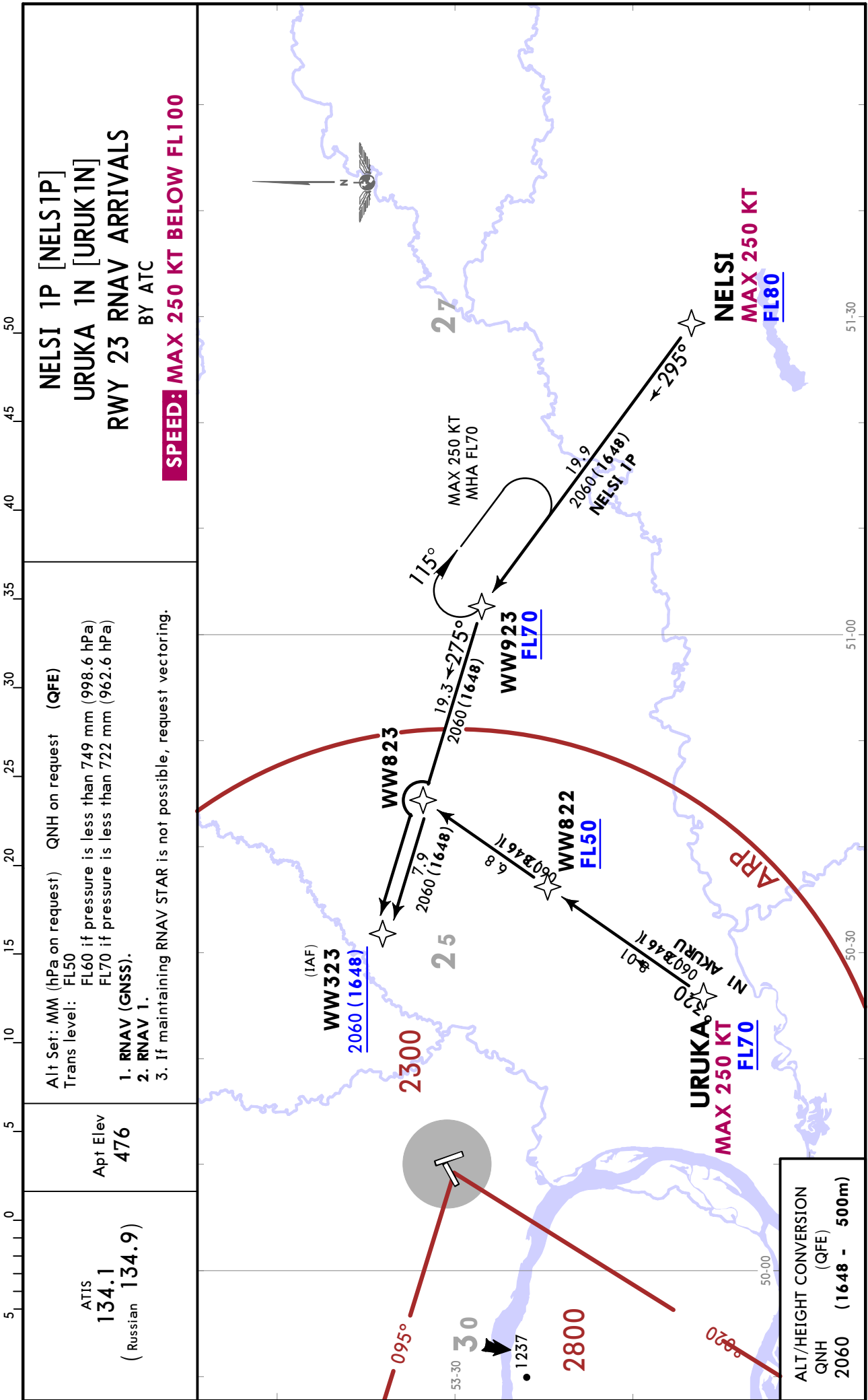
ALT/HEIGHT CONVERSION
QNH (QFE)
2060 (1648 - 500m)



UWWW/KUF
KURUMOCH

JEPPESSEN
18 MAY 18 10-2C Eff 24 May

SAMARA, RUSSIA
RNAV STAR







CHANGES: General mood

ATIS
134.1
(Russian 134.9)

Apt Elev
476

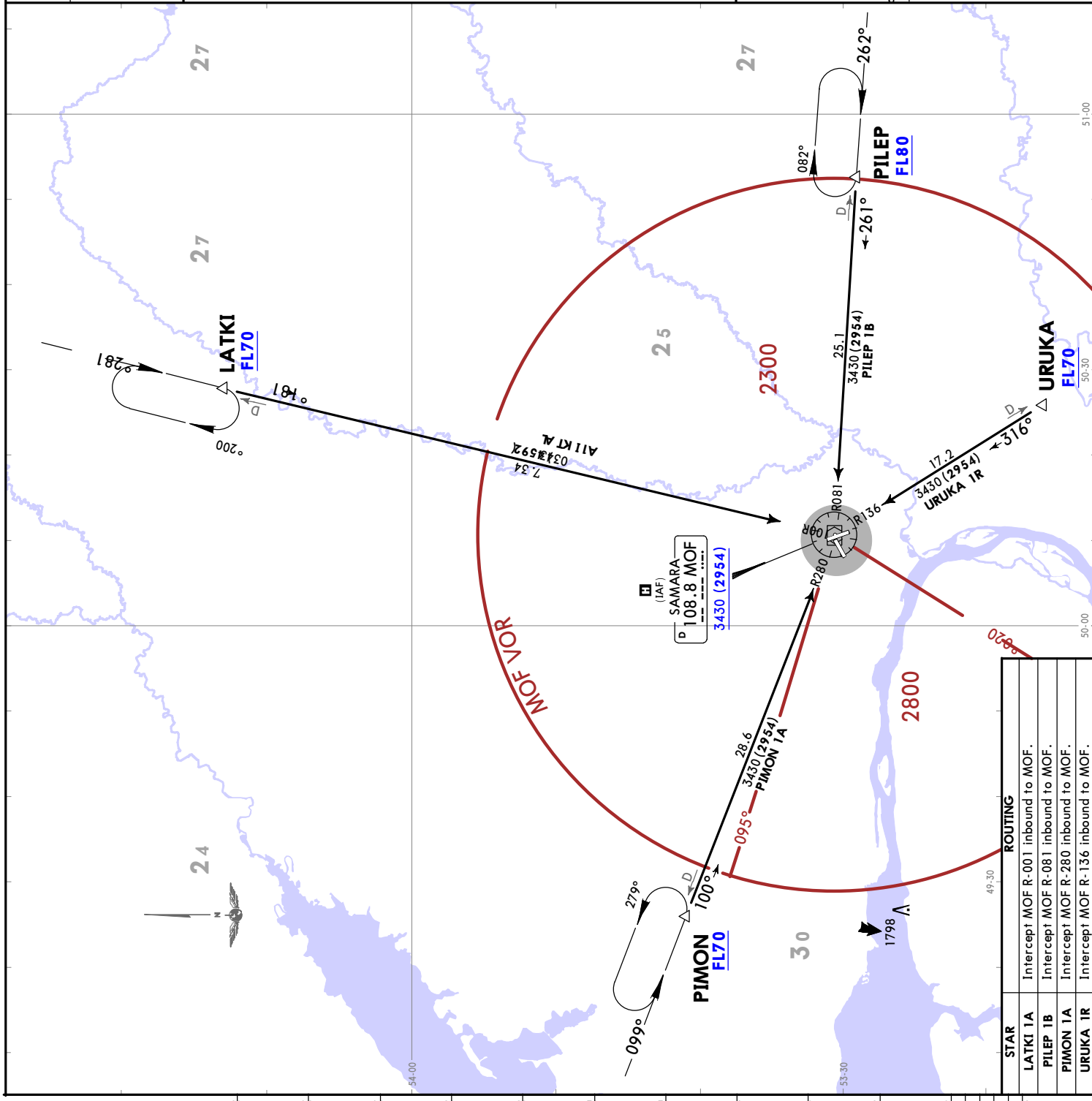
Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL50
FL60 if pressure is less than
749 mm (998.6 hPa)
FL70 if pressure is less than
722 mm (962.6 hPa)
If unable to maintain STAR, request vectoring.

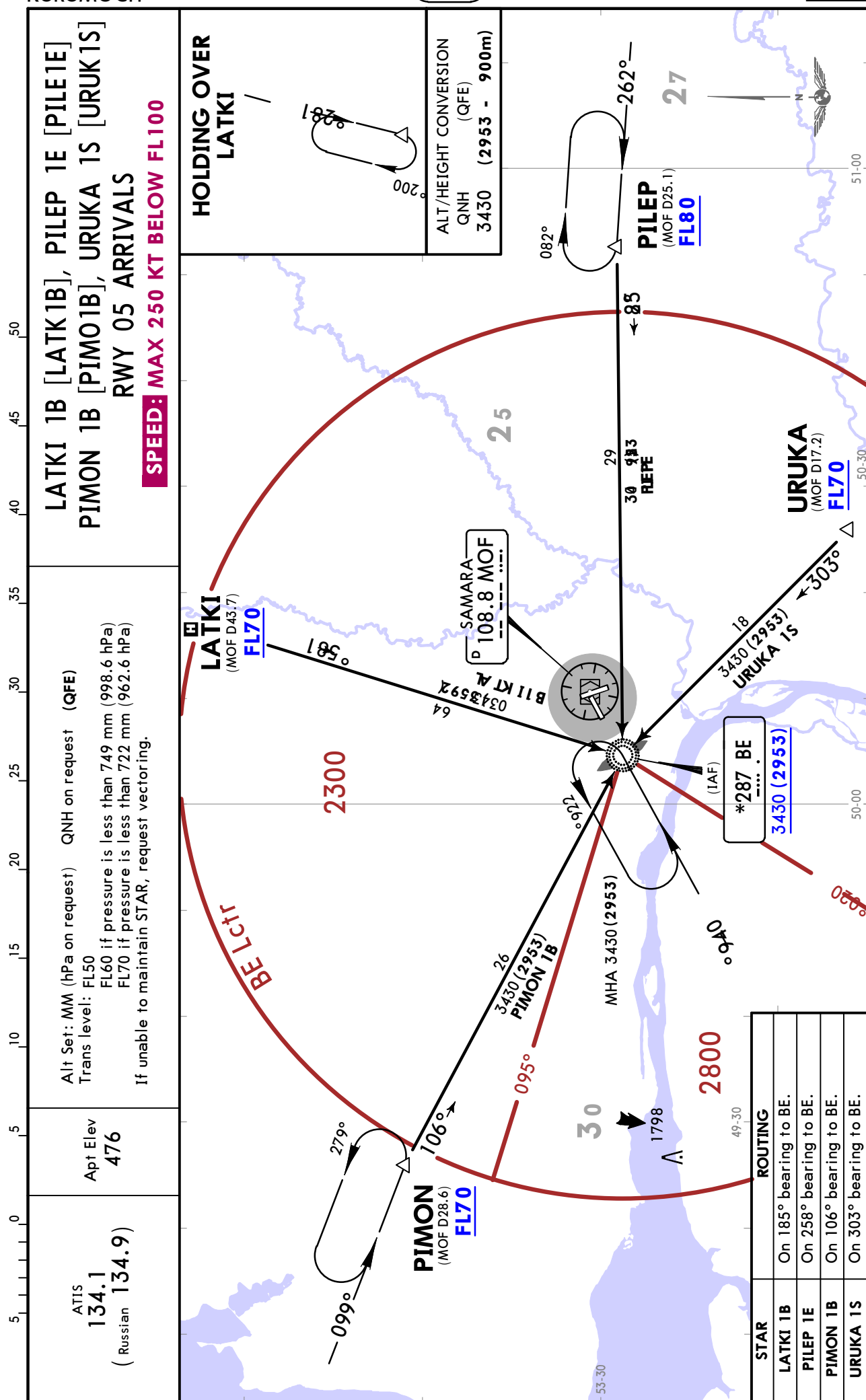
LATKI 1A [LATK1A]
PILEP 1B [PILE1B]
PIMON 1A [PIMO1A]
URUKA 1R [URUK1R]

RWYS 05/23, 15/33 ARRIVALS

SPEED: MAX 250 KT BELOW FL100

ALT/HEIGHT CONVERSION
(QFE)
3430 (2954 - 900m)

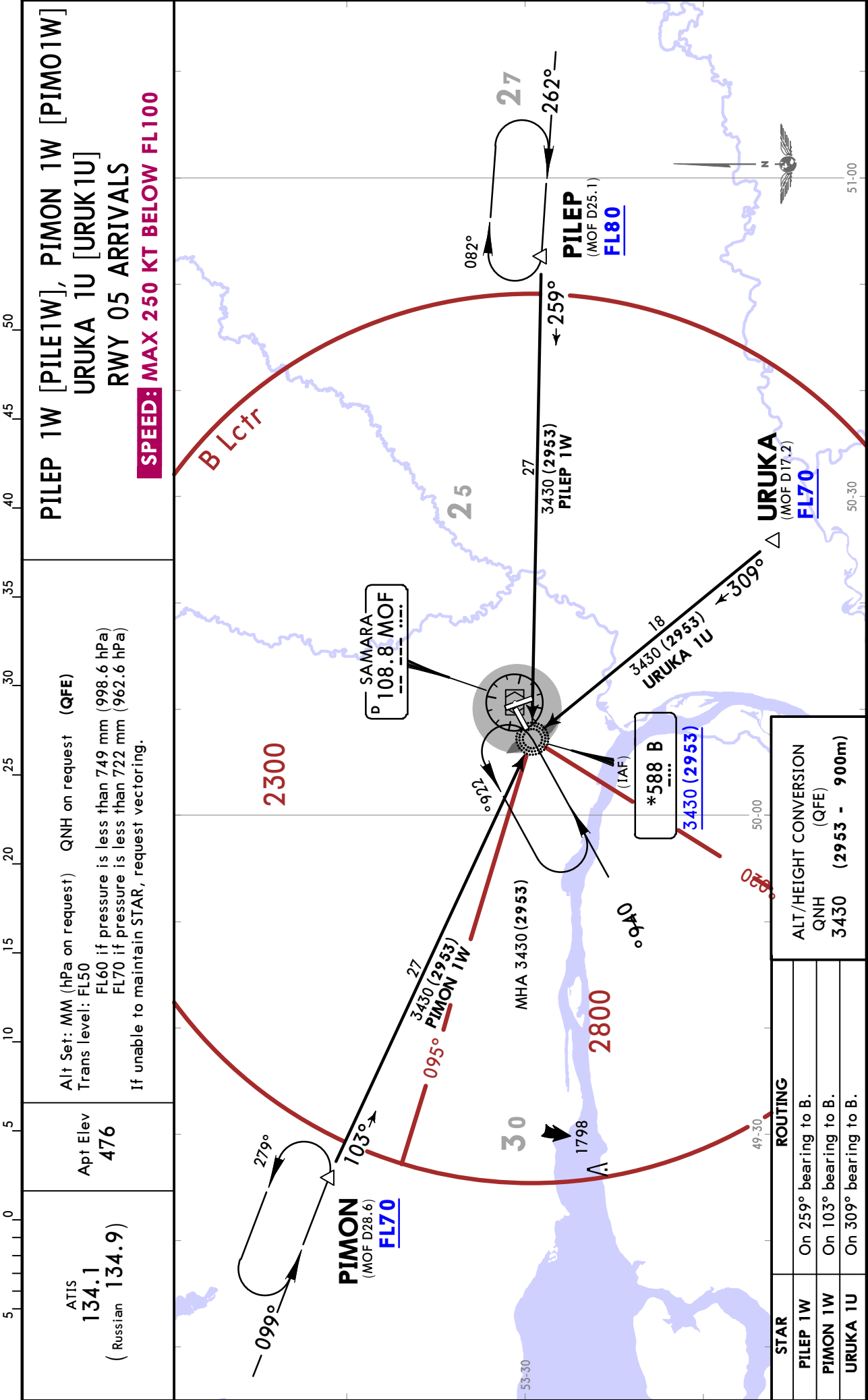


STAR

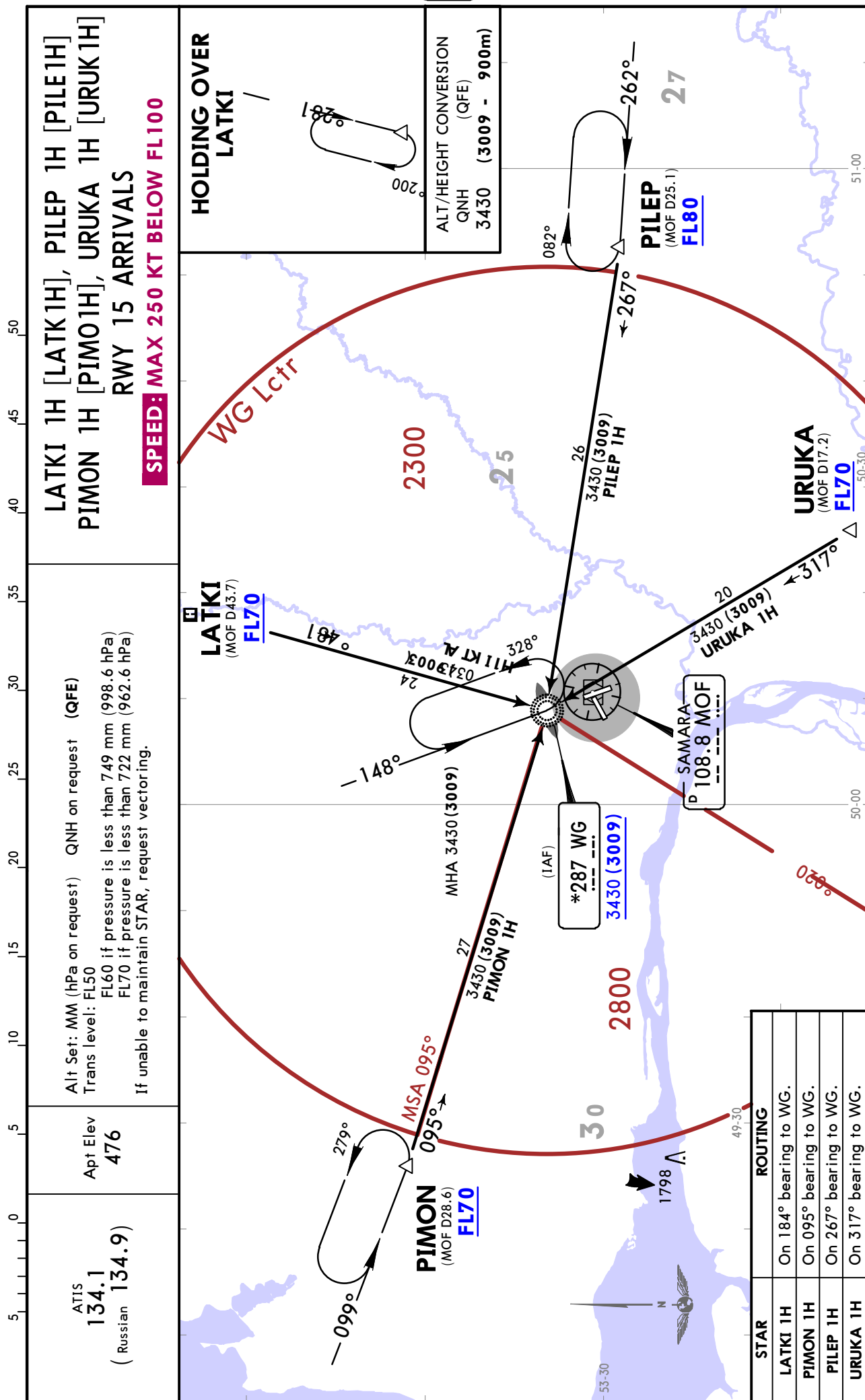
UWWW/KUF
KURUMOCH

JEPPESSEN
18 MAY 18 10-2H Eff 24 May

SAMARA, RUSSIA
STAR



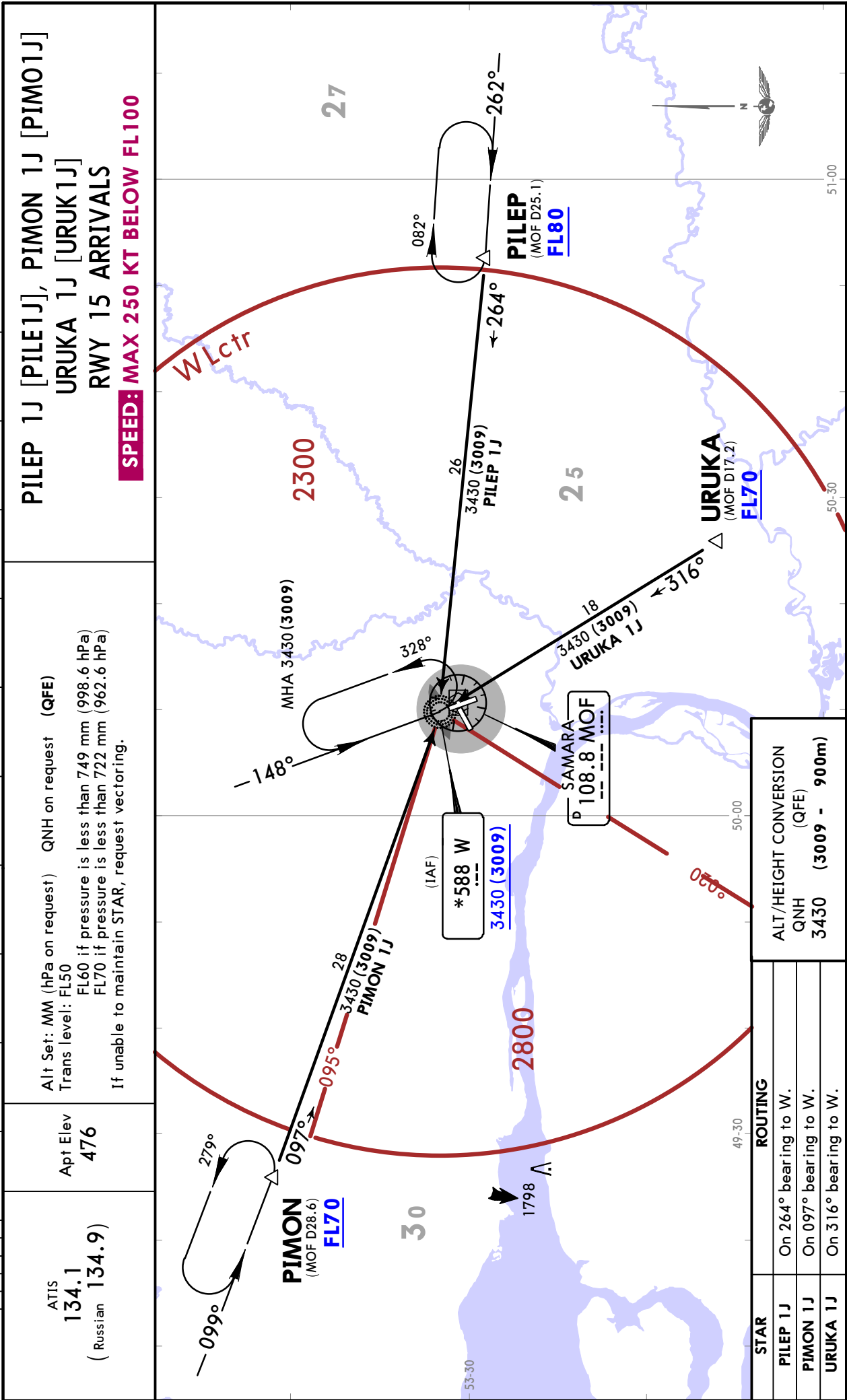
SAMARA, RUSSIA

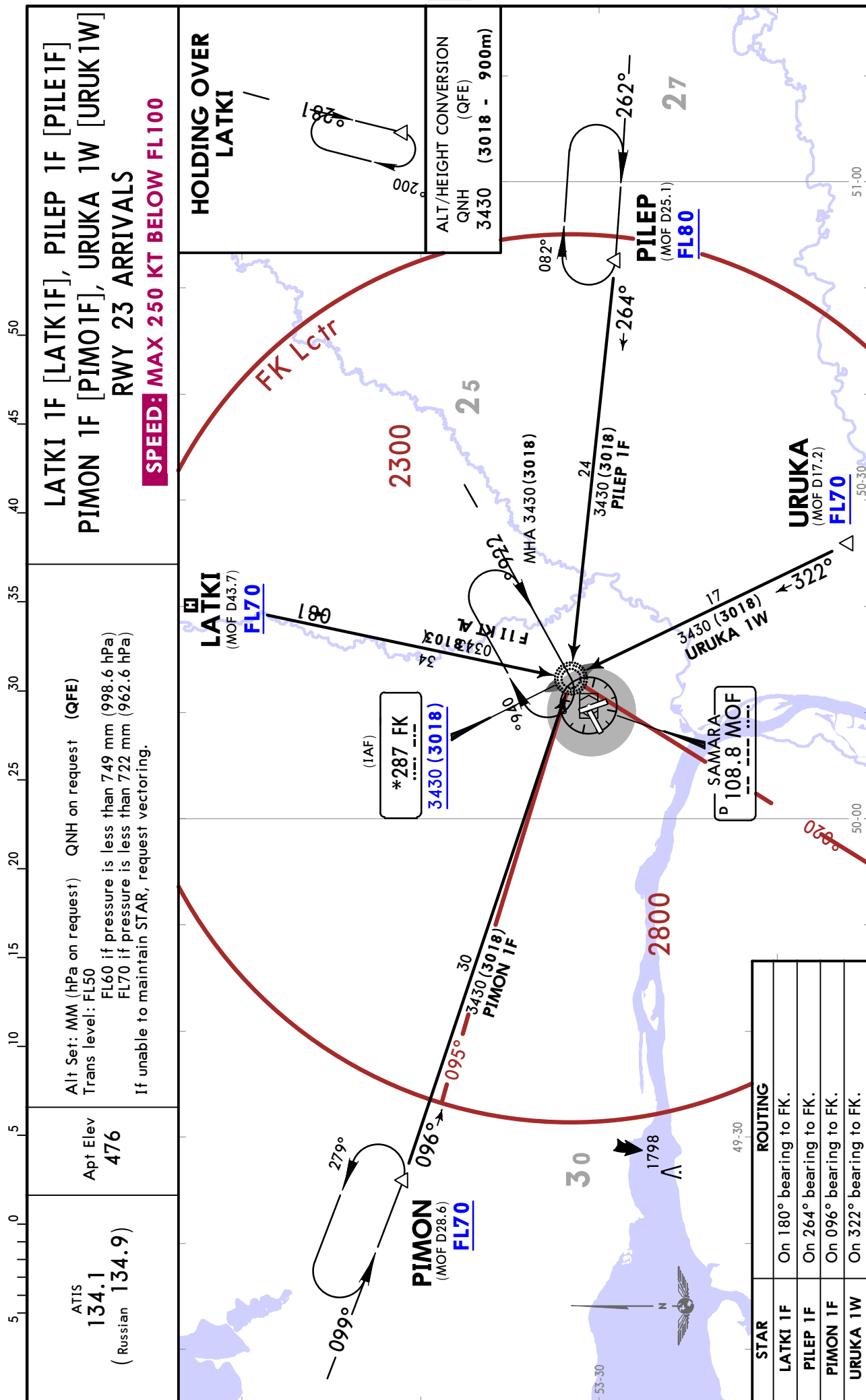


UWWW/KUF
KURUMOCH

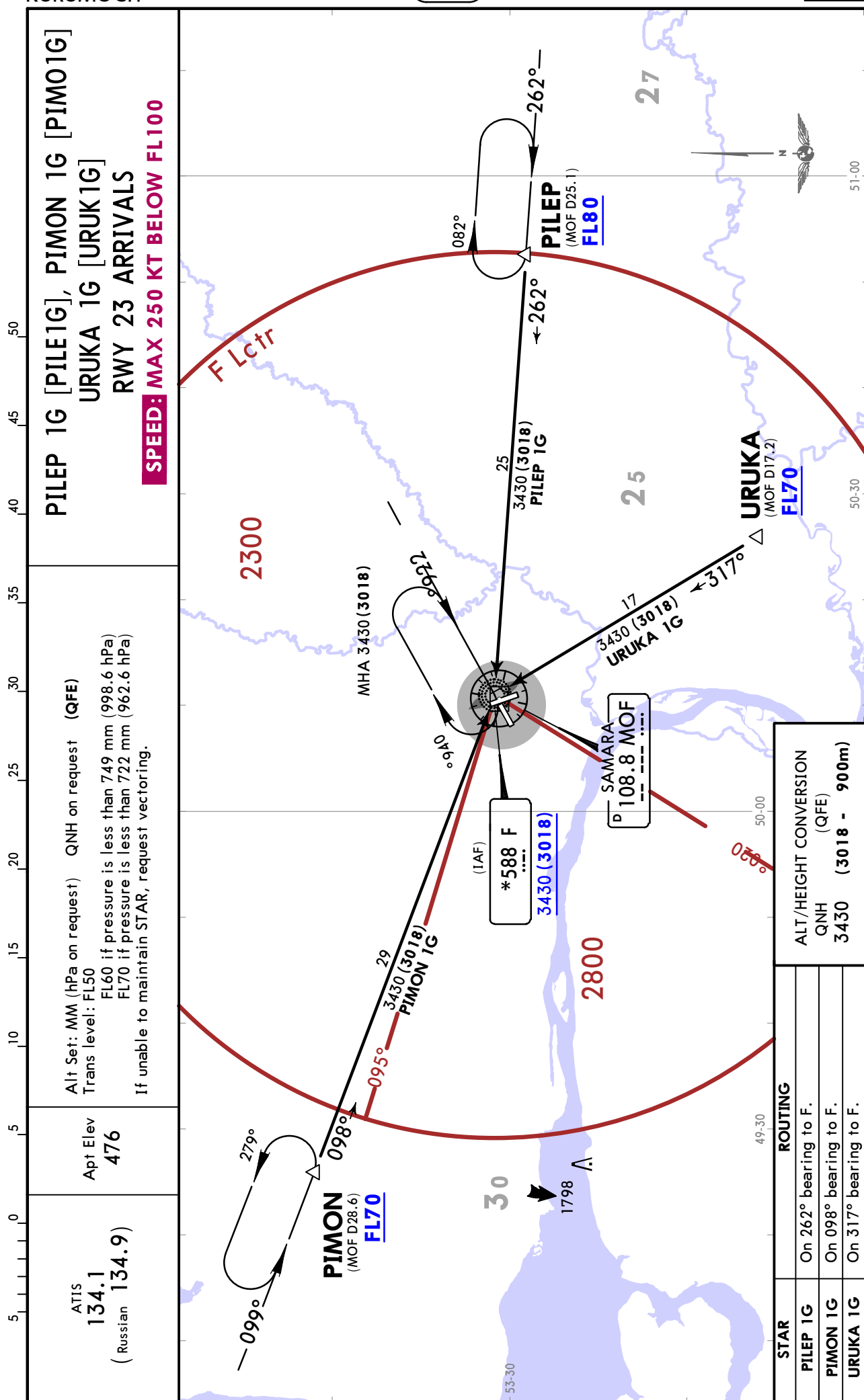
JEPPESSEN
18 MAY 18 10-2K Eff 24 May

SAMARA, RUSSIA
STAR



STAR

SAMARA, RUSSIA

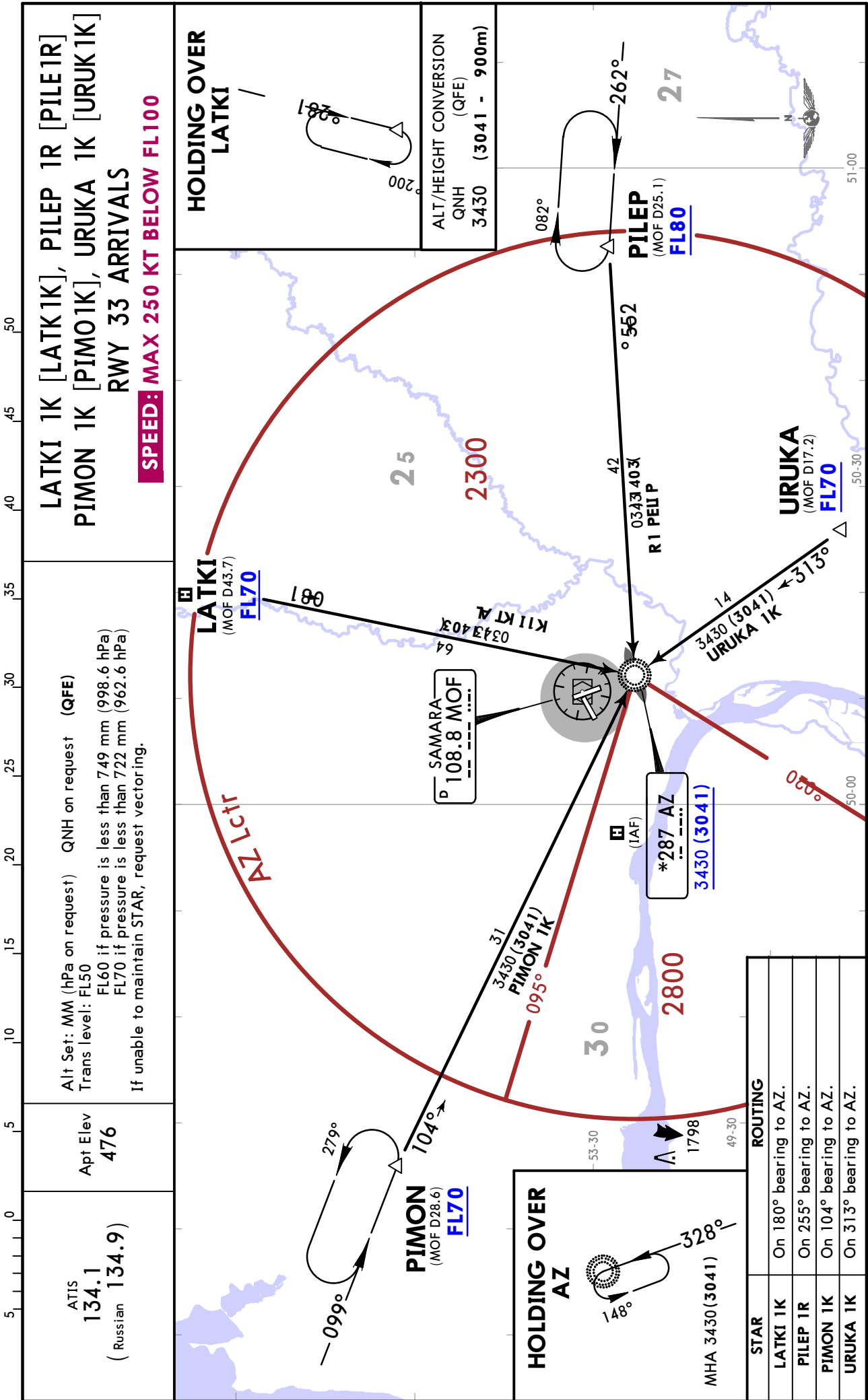


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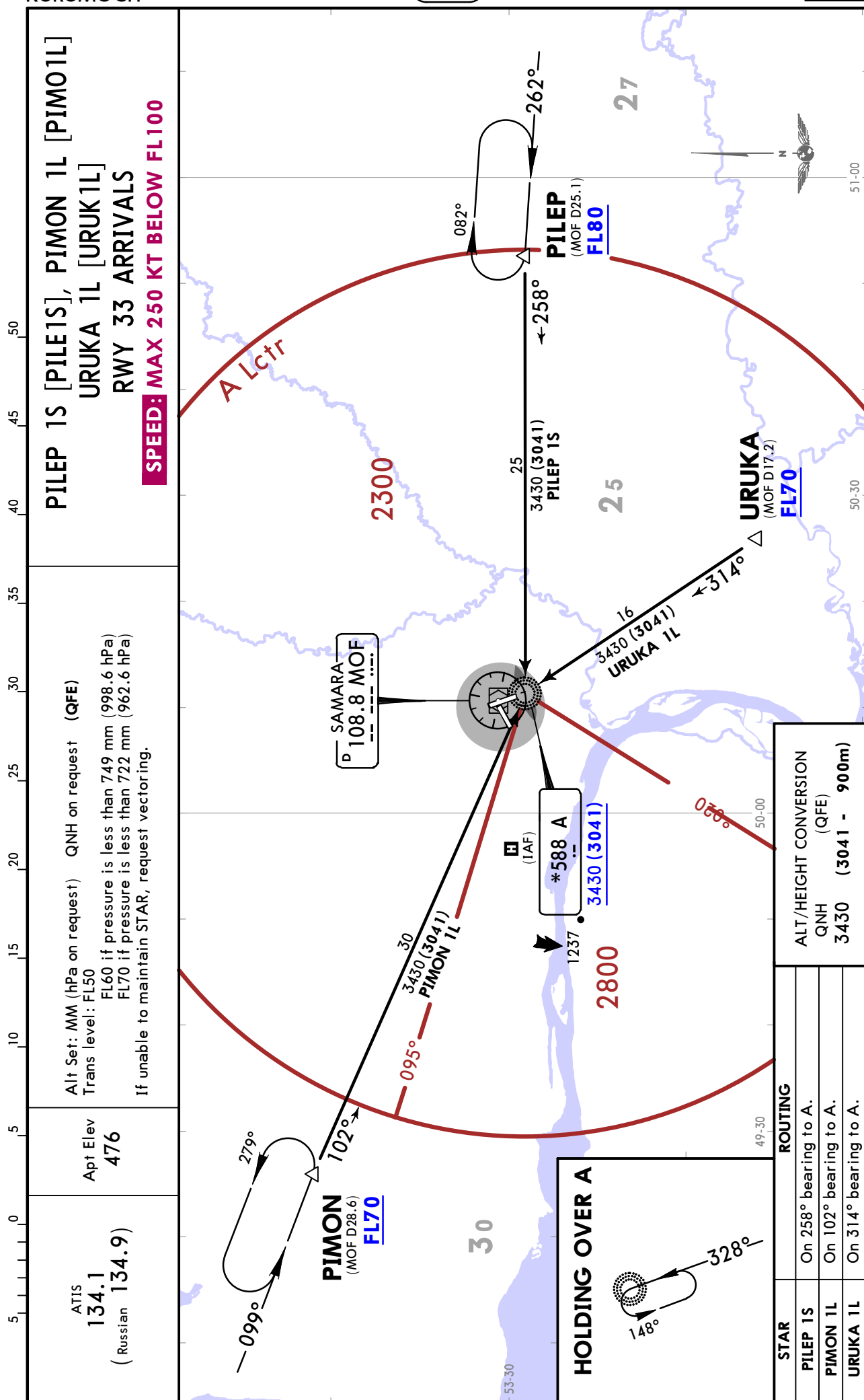
UWWW/KUF
KURUMOCH

JEPPESSEN
18 MAY 18 10-2N Eff 24 May

SAMARA, RUSSIA
STAR



SAMARA, RUSSIA



UWWW/KUF
KURUMOCH

SAMARA, RUSSIA
RNAV SID

RNAV SID DESIGNATION	REFER TO CHART
GISUL 1K, NELSI 1K, 1M	10-3B
BEKBI 1K, GITEK 1K, LURIP 1K	10-3C
DW 1K, GINUK 1K	10-3D
GISUL 1L, 1M, NELSI 1L, PILEP 1L	10-3E
BEKBI 1L, GITEK 1L, LURIP 1L	10-3F
DW 1L, GINUK 1L	10-3G
GISUL 1N, NELSI 1N, PILEP 1N	10-3H
BEKBI 1N, GITEK 1M, 1N, LURIP 1N	10-3J
DW 1N, GINUK 1N	10-3K
GISUL 1P, PILEP 1P, URUKA 1P	10-3L
BEKBI 1P, LURIP 1P	10-3M
DW 1P, GINUK 1P	10-3N

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UWWW/KUF
KURUMOCH

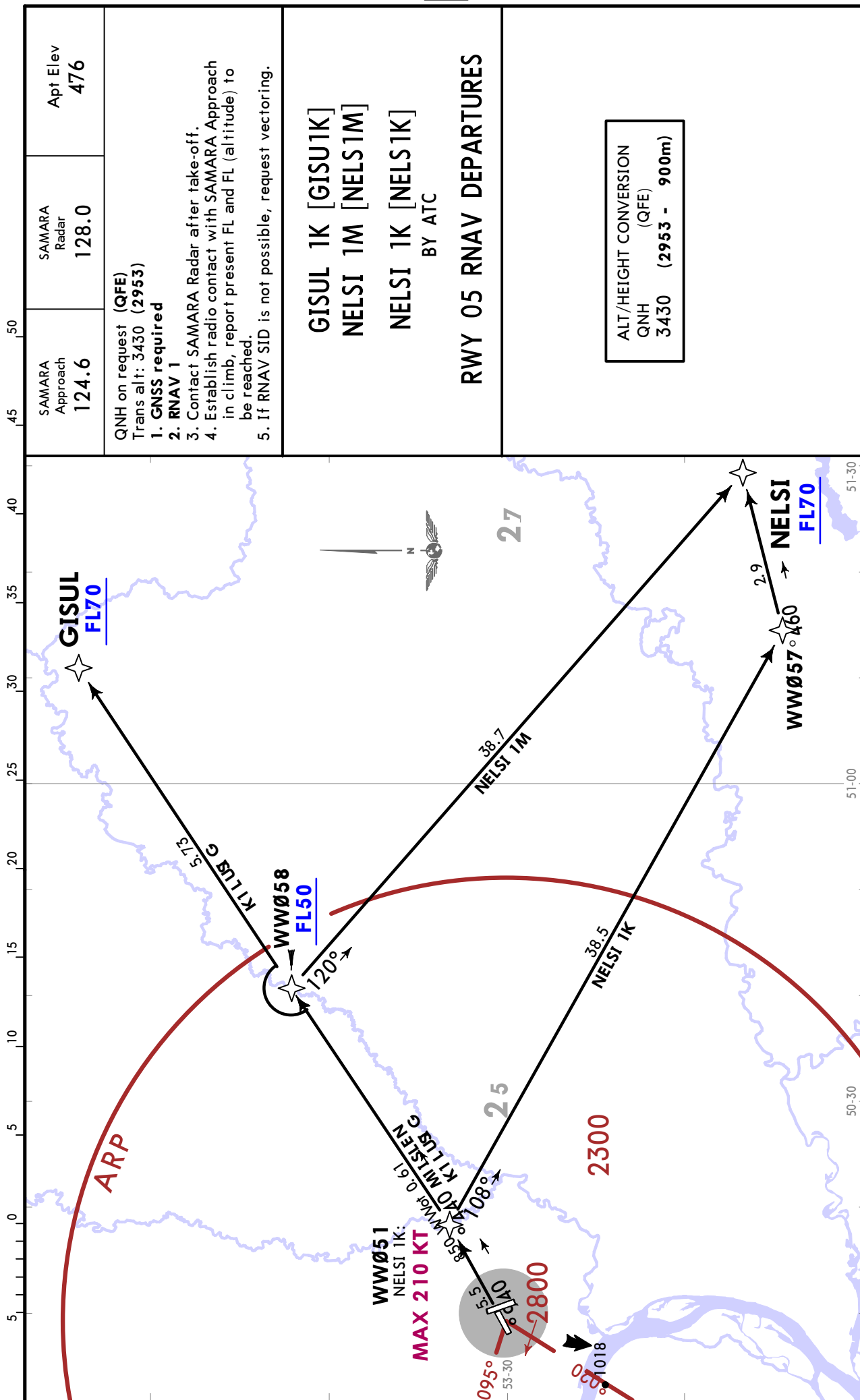
SAMARA, RUSSIA
SID

SID DESIGNATION	REFER TO CHART
GISUL 1A, NELSI 1A, URUKA 1B	10-3P
URUKA 1A	10-3Q
BEKBI 1A, LURIP 6A	10-3S
BEKBI 1B, LURIP 6B	10-3T
DW 6A, GINUK 6A	10-3T1
DW 6B, GINUK 6B	10-3T2
GISUL 1C, 1F, NELSI 1C, URUKA 1C	10-3T3
URUKA 1F	10-3T4
BEKBI 1C, LURIP 1C	10-3T5
DW 1C, GINUK 1C	10-3T6
GISUL 1D, NELSI 1D, URUKA 1E	10-3T7
URUKA 1D	10-3T8
BEKBI 1D, LURIP 1D	10-3U
BEKBI 1E, LURIP 1E	10-3V
DW 1D, GINUK 1D	10-3W
GISUL 1T, PILEP 1T, URUKA 1T	10-3X
BEKBI 1T, LURIP 1T	10-3X1
DW 1T, GINUK 1T	10-3X2

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SAMARA, RUSSIA

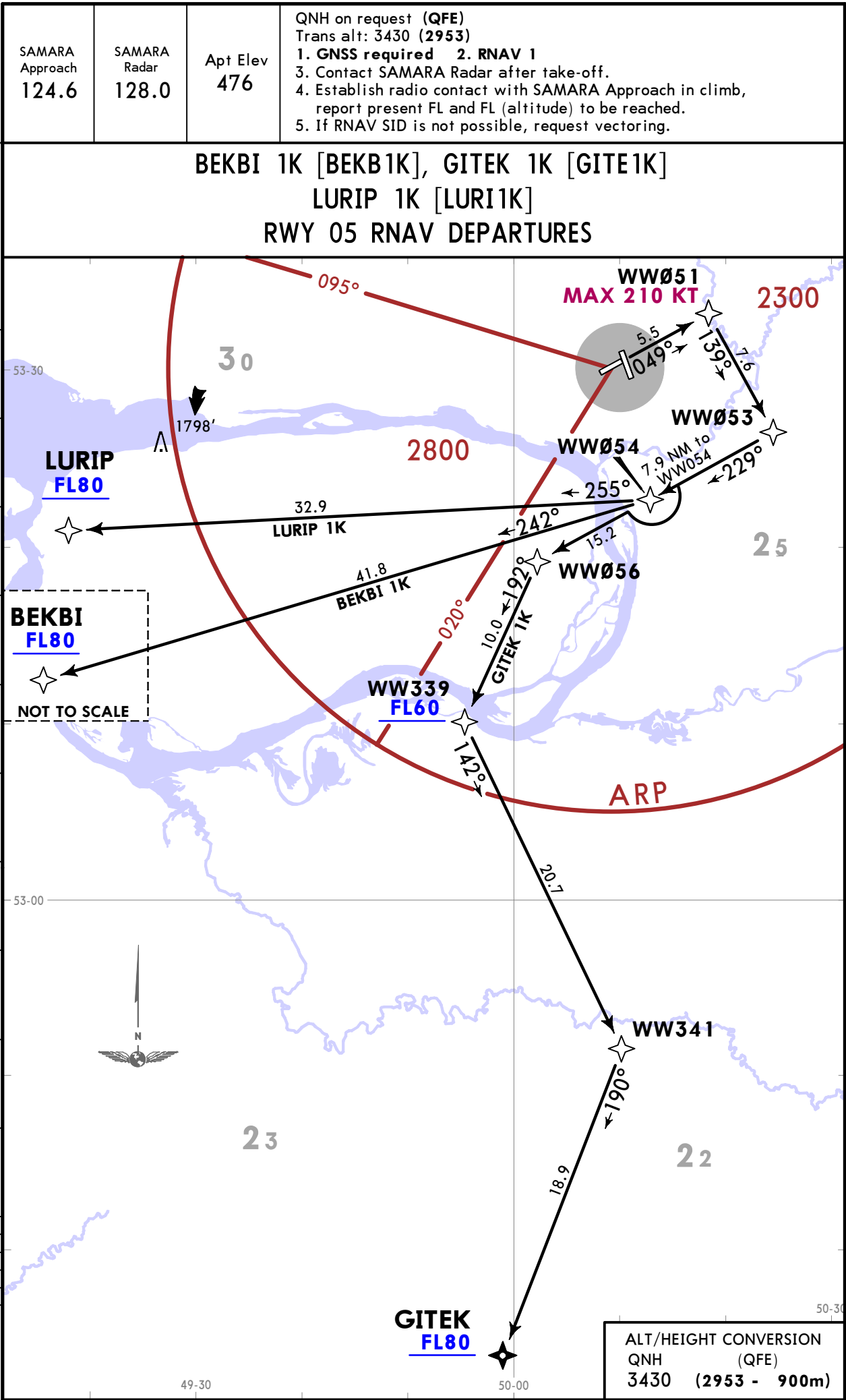
RNAV SID



UWWW/KUF
KURUMOCH

JEPPESSEN
1 DEC 17 10-3C Eff 7 Dec

SAMARA, RUSSIA
RNAV SID



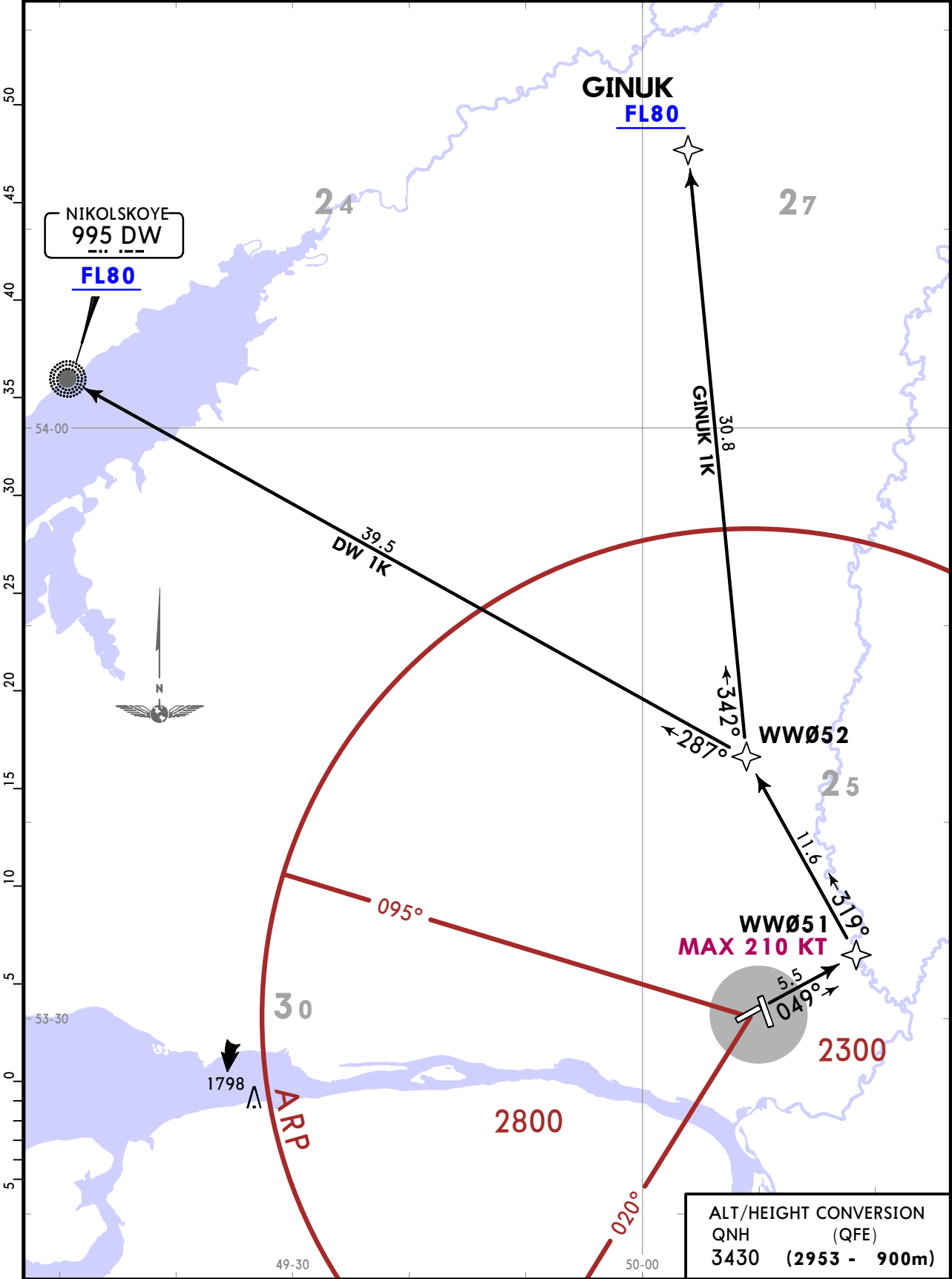
UWWW/KUF
KURUMOCH

JEPPESSEN
1 DEC 17 **10-3D** Eff 7 Dec

SAMARA, RUSSIA
RNAV SID

SAMARA Approach 124.6	SAMARA Radar 128.0	Apt Elev 476	QNH on request (QFE) Trans alt: 3430 (2953) 1. GNSS required 2. RNAV 1 3. Contact SAMARA Radar after take-off. 4. Establish radio contact with SAMARA Approach in climb, report present FL and FL (altitude) to be reached. 5. If RNAV SID is not possible, request vectoring.
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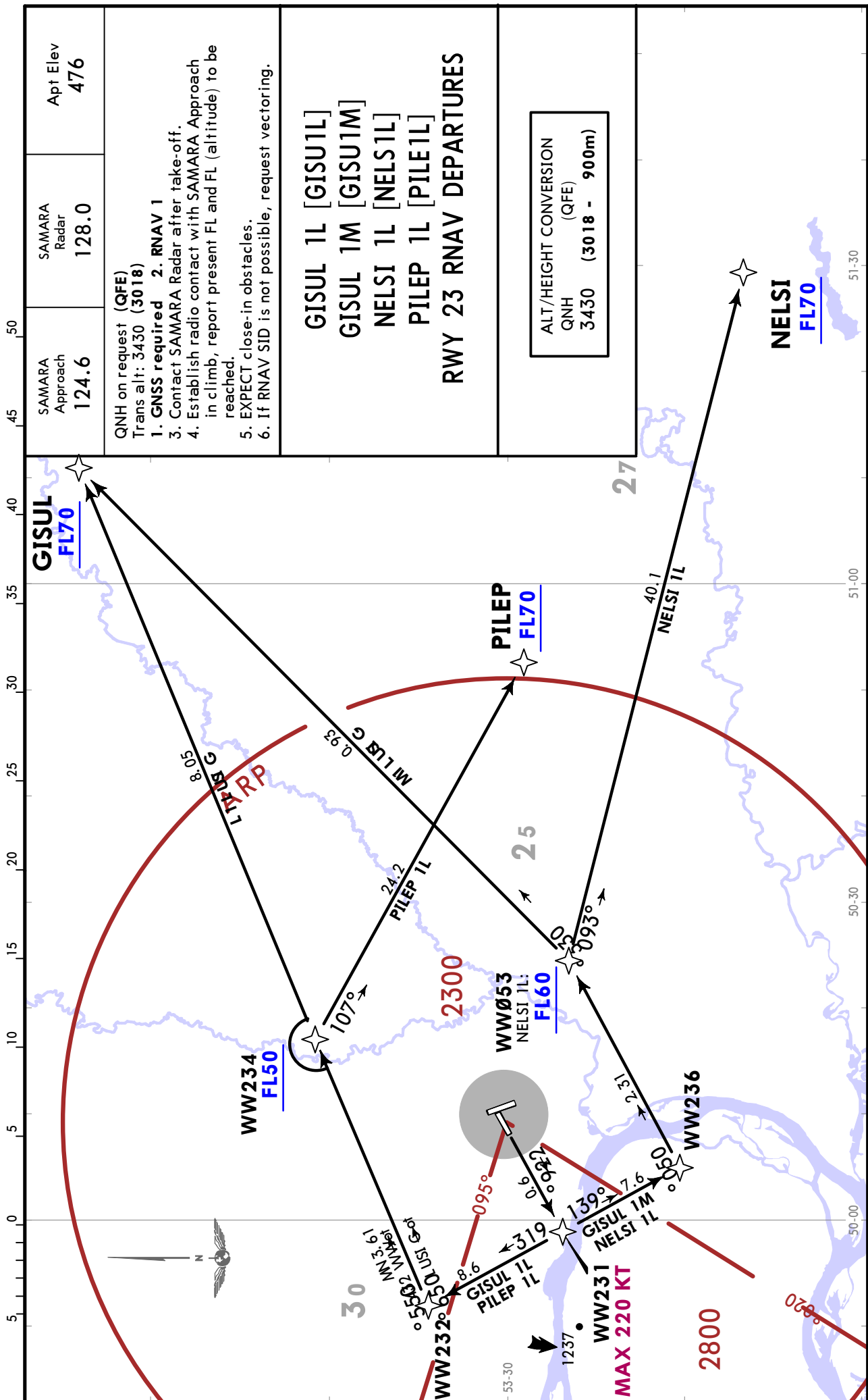
DW 1K [DW1K], GINUK 1K [GINU1K]
RWY 05 RNAV DEPARTURES



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JEPPESSEN
1 DEC 17 **10-3E** Eff 7 Dec

SAMARA, RUSSIA
RNAV SID



CHANGES: New chart (RNAV SIDs established).

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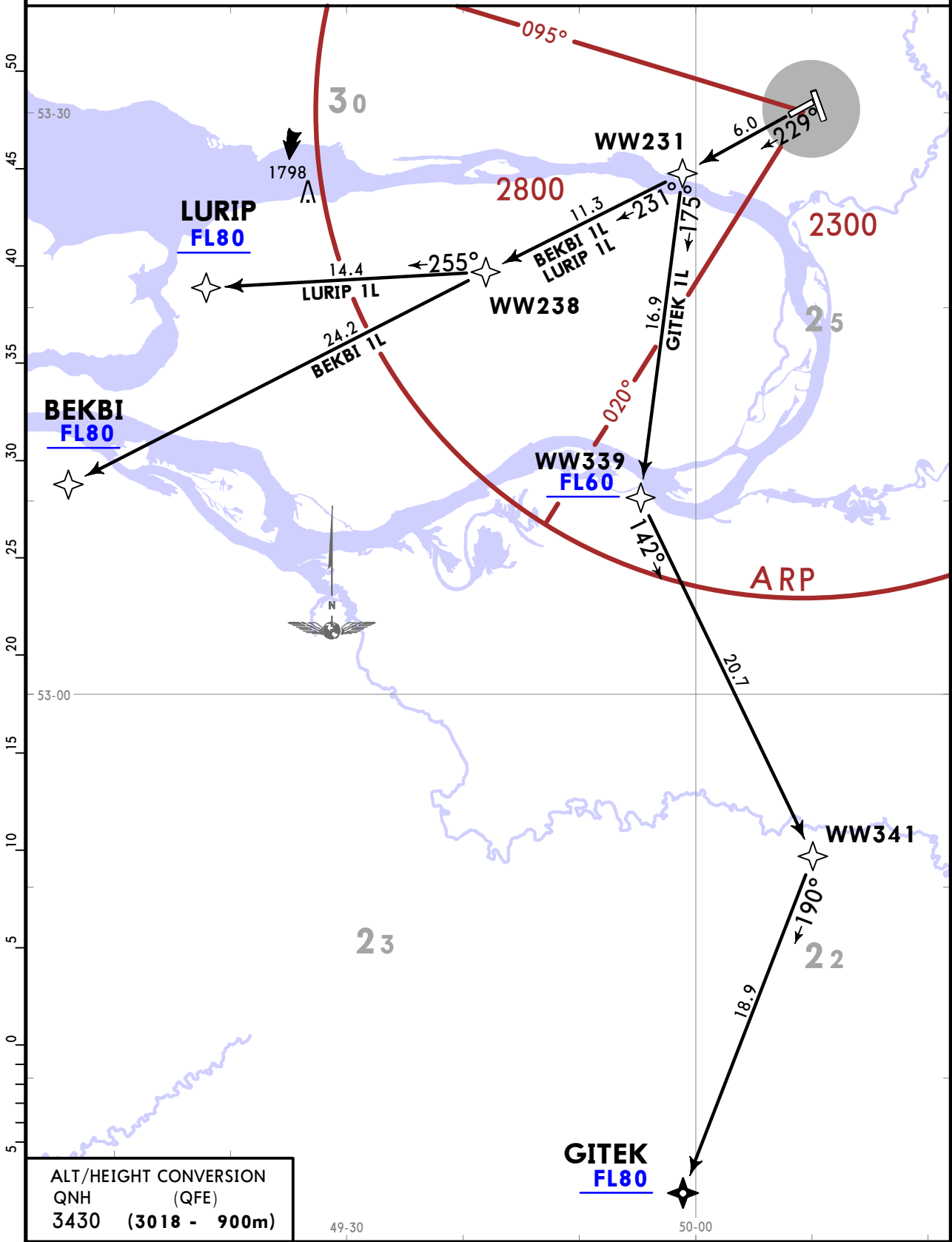
UWWW/KUF
KURUMOCH

JEPPESSEN
1 DEC 17 **10-3F** **Eff 7 Dec**

SAMARA, RUSSIA
RNAV SID

SAMARA Approach 124.6	SAMARA Radar 128.0	Apt Elev 476	QNH on request (QFE) Trans alt: 3430 (3018) 1. GNSS required 2. RNAV 1 3. Contact SAMARA Radar after take-off. 4. Establish radio contact with SAMARA Approach in climb, report present FL and FL (altitude) to be reached. 5. EXPECT close-in obstacles. 6. If RNAV SID is not possible, request vectoring.
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BEKBI 1L [BEKB1L], GITEK 1L [GITE1L]
LURIP 1L [LURI1L]
RWY 23 RNAV DEPARTURES



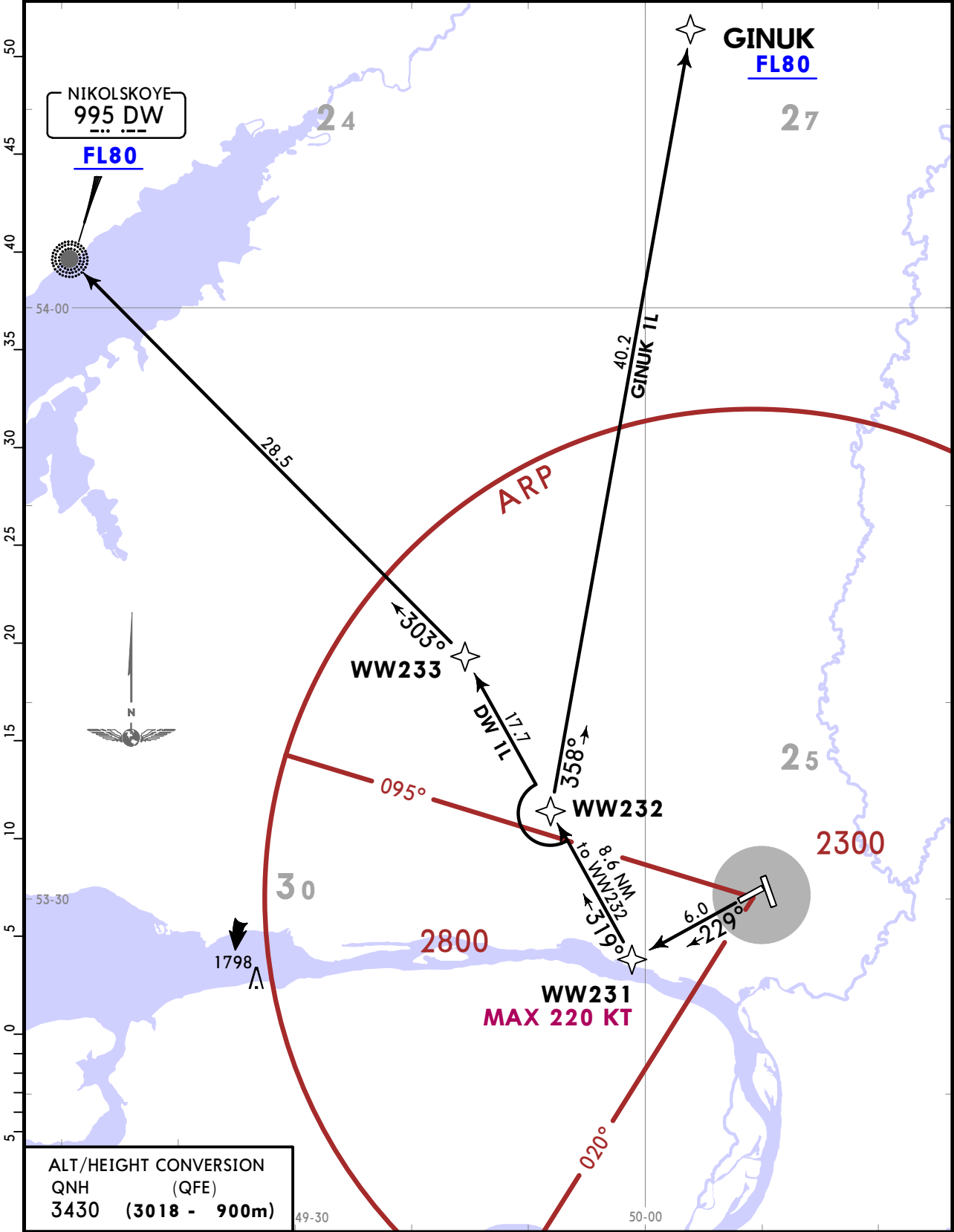
UWWW/KUF
KURUMOCH

JEPPESEN
1 DEC 17 10-3G Eff 7 Dec

SAMARA, RUSSIA
RNAV SID

SAMARA Approach 124.6	SAMARA Radar 128.0	Apt Elev 476	QNH on request (QFE) Trans alt: 3430 (3018) 1. GNSS required 2. RNAV 1 3. Contact SAMARA Radar after take-off. 4. Establish radio contact with SAMARA Approach in climb, report present FL and FL (altitude) to be reached. 5. EXPECT close-in obstacles. 6. If RNAV SID is not possible, request vectoring.
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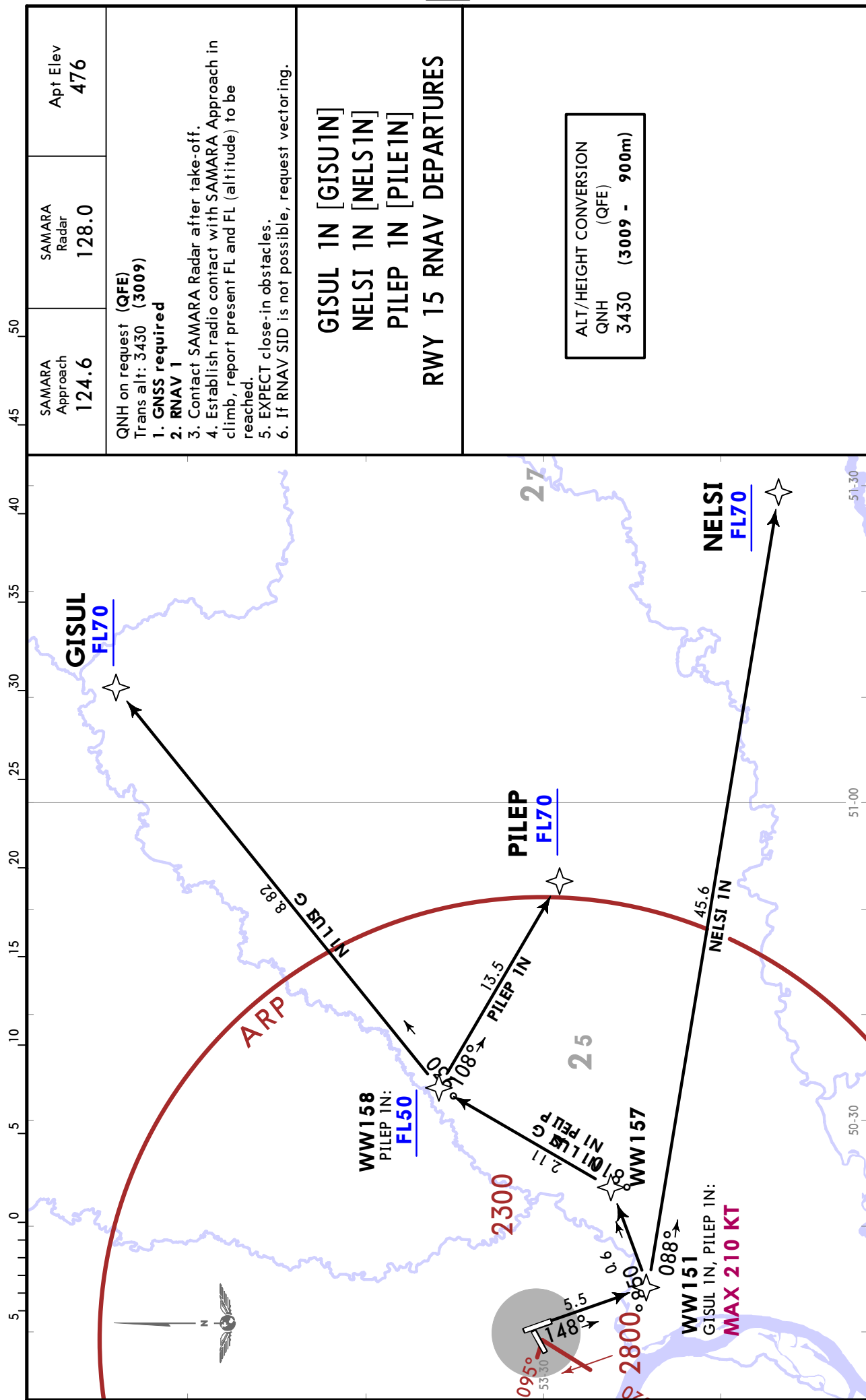
DW 1L [DW1L]
GINUK 1L [GINU1L]
RWY 23 RNAV DEPARTURES



UWWW/KUF
KURUMOCH

JEPPesen
1 DEC 17 10-3H Eff 7 Dec

SAMARA, RUSSIA
RNAV SID



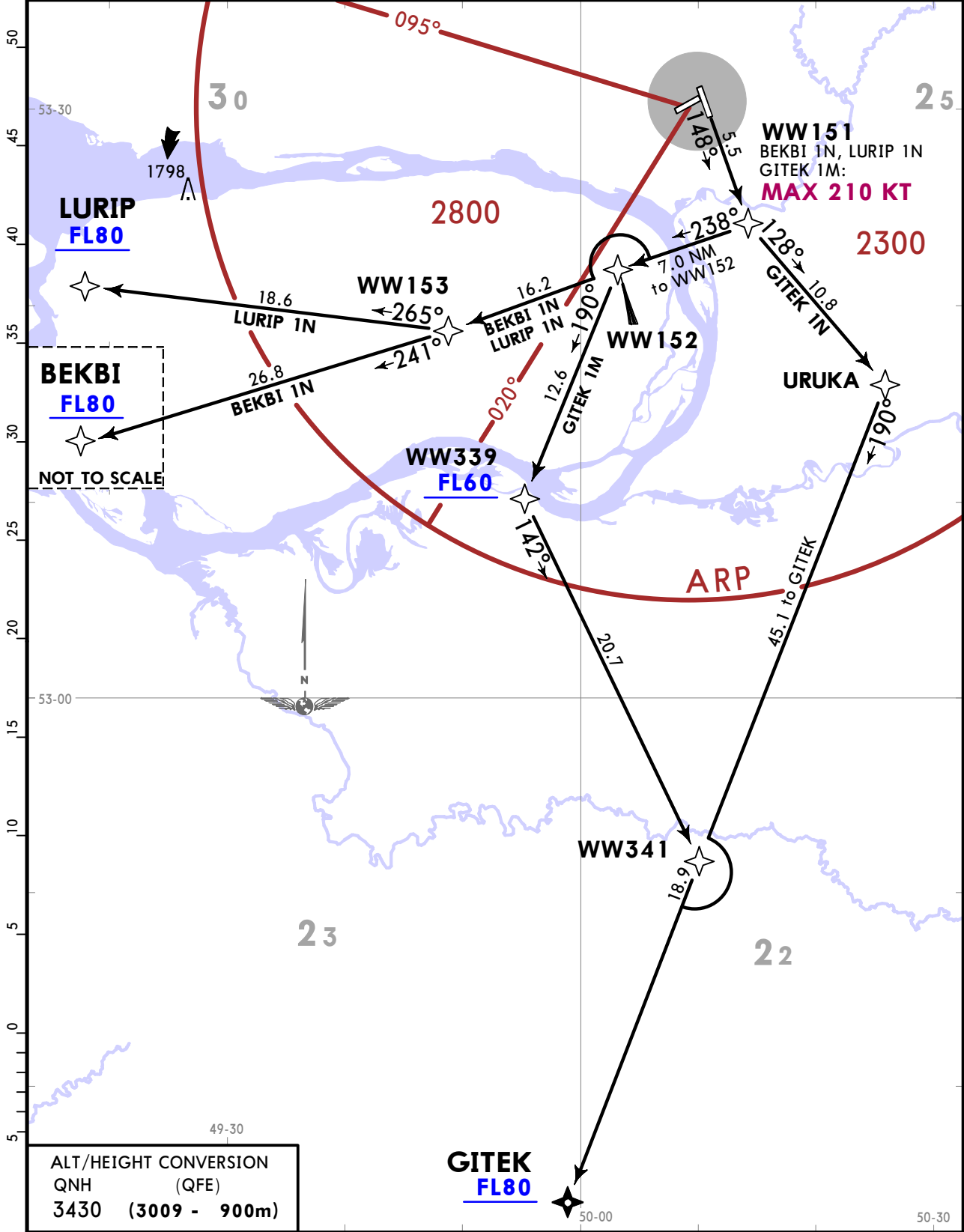
UWWW/KUF
KURUMOCH

JEPPESEN
1 DEC 17 10-3J Eff 7 Dec

SAMARA, RUSSIA
RNAV SID

SAMARA Approach 124.6	SAMARA Radar 128.0	Apt Elev 476	QNH on request (QFE) Trans alt: 3430 (3009) 1. GNSS required 2. RNAV 1 3. Contact SAMARA Radar after take-off. 4. Establish radio contact with SAMARA Approach in climb, report present FL and FL (altitude) to be reached. 5. EXPECT close-in obstacles. 6. If RNAV SID is not possible, request vectoring.
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BEKBI 1N [BEKB1N], GITEK 1M [GITE1M]
GITEK 1N [GITE1N], LURIP 1N [LURI1N]
RWY 15 RNAV DEPARTURES



UWWW/KUF
KURUMOCH

JEPPESEN
1 DEC 17 **(10-3K)** **Eff 7 Dec**

SAMARA, RUSSIA
RNAV SID

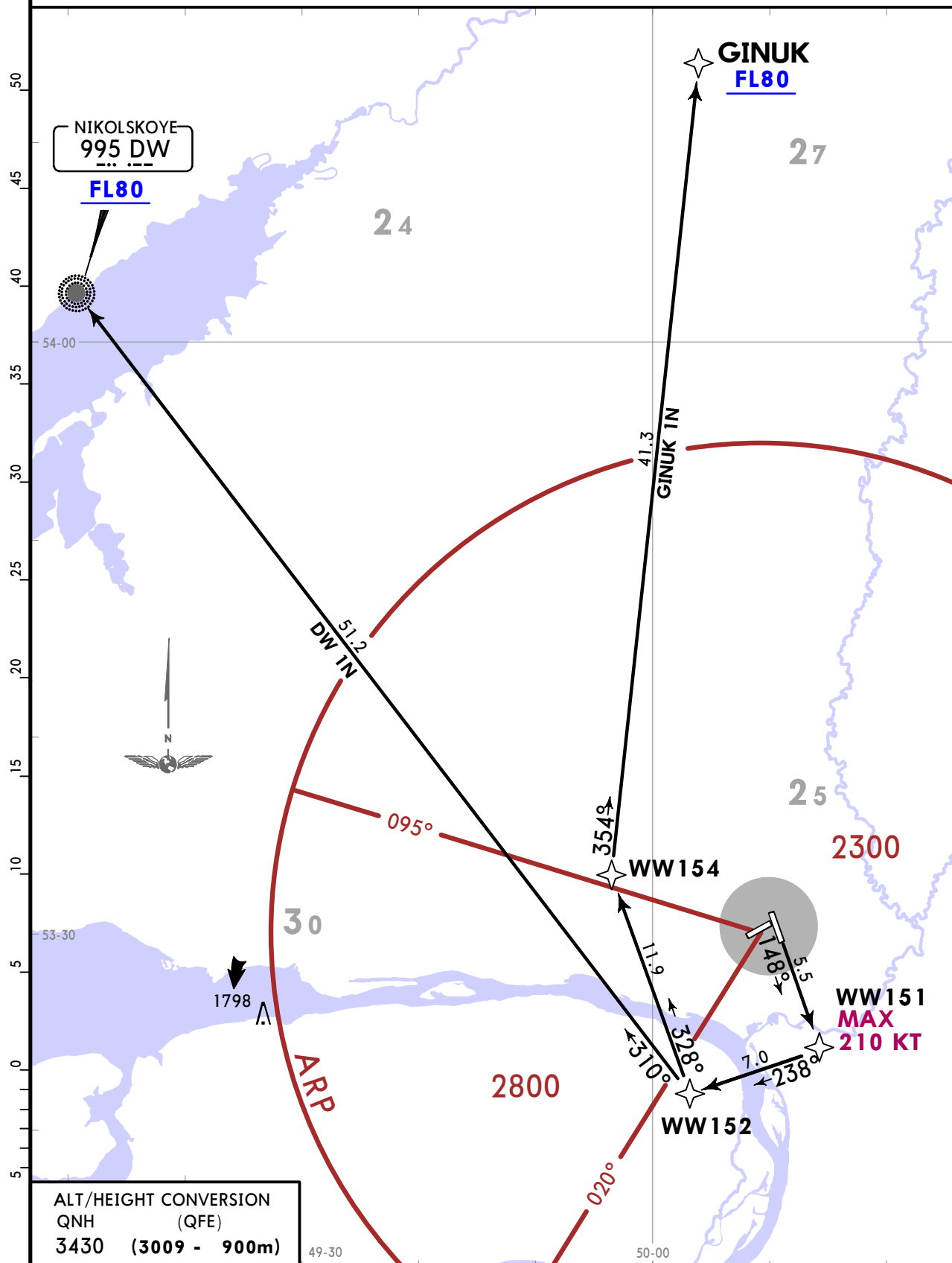
SAMARA
Approach
124.6

SAMARA
Radar
128.0

Apt Elev
476

QNH on request (QFE)
Trans alt: 3430 (3009)
1. GNSS required
2. RNAV 1
3. Contact SAMARA Radar after take-off.
4. Establish radio contact with SAMARA Approach in climb, report present FL and FL (altitude) to be reached.
5. EXPECT close-in obstacles.
6. If RNAV SID is not possible, request vectoring.

DW 1N [DW1N], GINUK 1N [GINU1N]
RWY 15 RNAV DEPARTURES

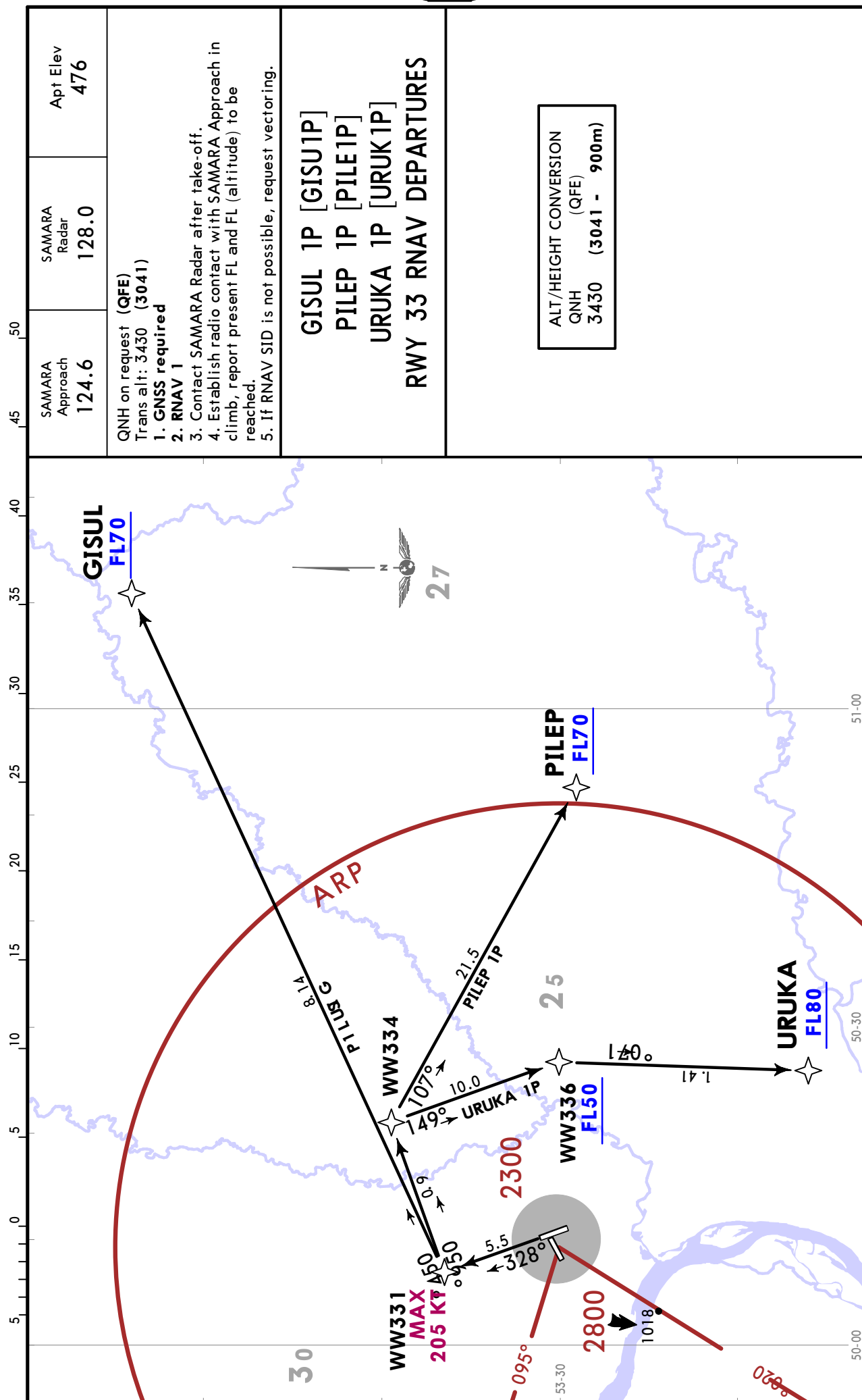


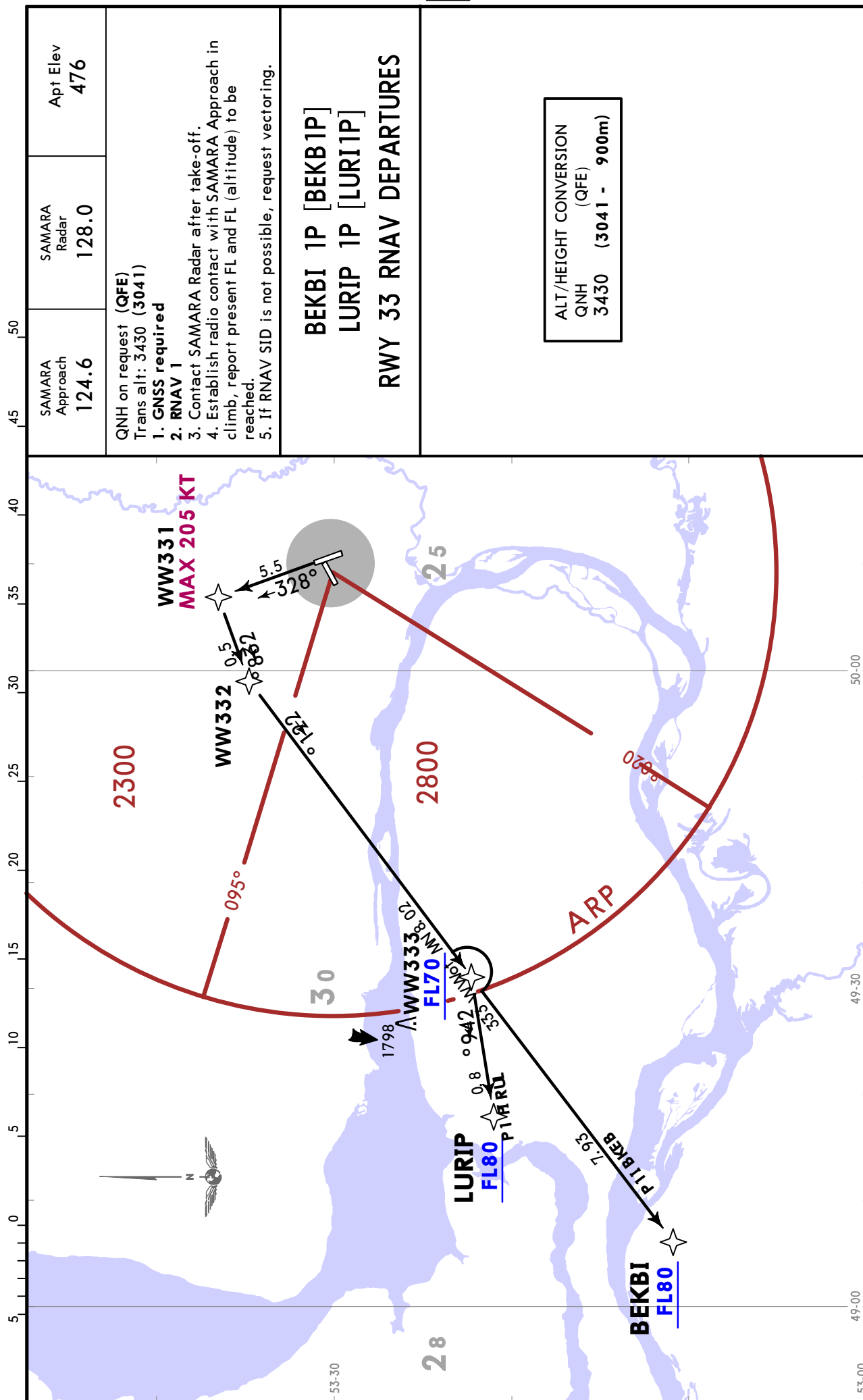
ALT/HEIGHT CONVERSION
QNH (QFE)
3430 (3009 - 900m)

CHANGES: New chart (RNAV SIDs established).

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SAMARA, RUSSIA
RNAV SID



RNAV SID

QNH on request (**QFE**)
Trans alt: 3430 (**3041**)

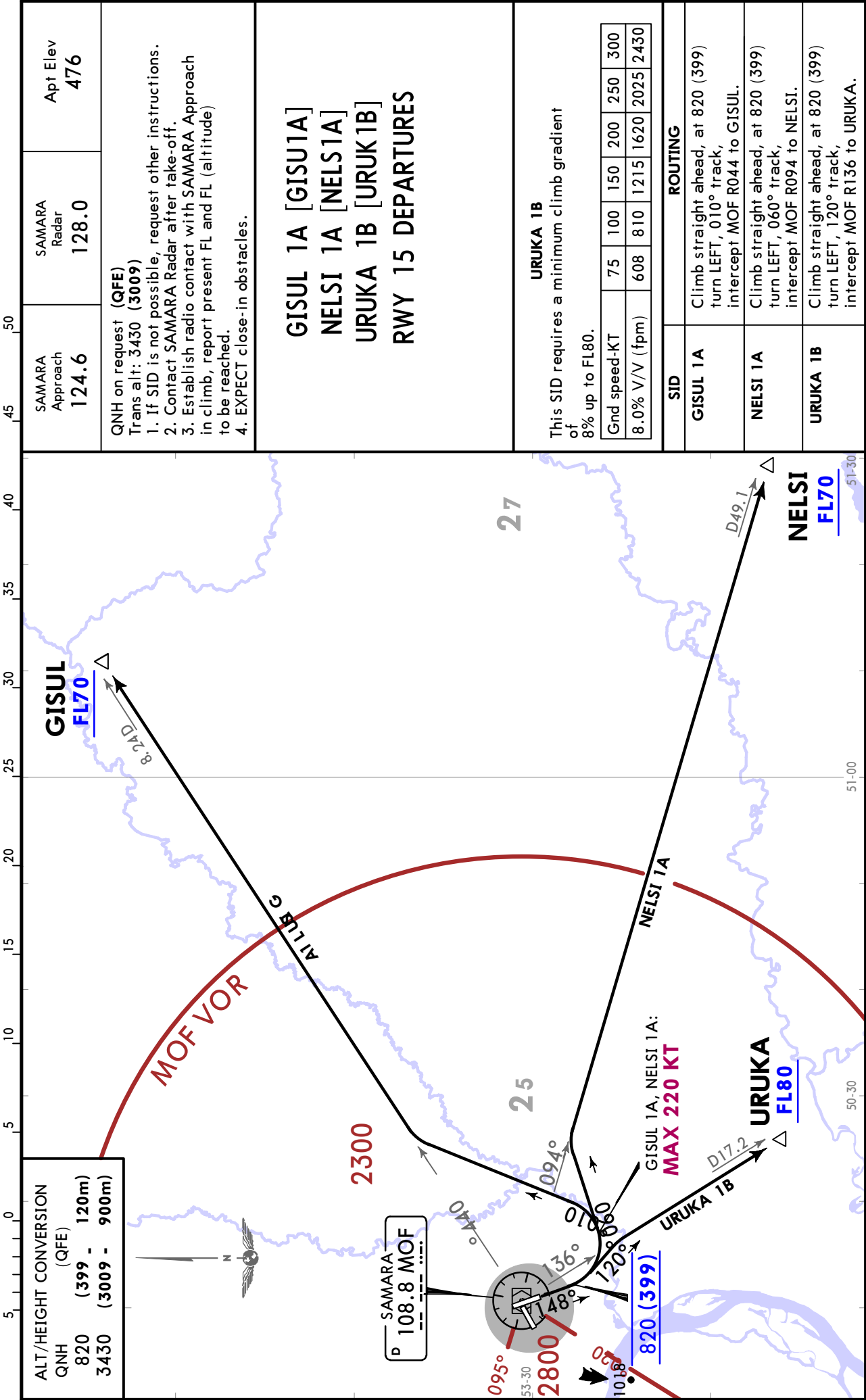
1. **GNSS required**
2. **RNAV 1**
3. Contact **SAMARA** Radar after take-off.
4. Establish radio contact with **SAMARA** Approach in climb, report present FL and FL (altitude) to be reached.
5. If RNAV SID is not possible, request vectoring.

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UWWW/KUF
KURUMOCH

JEPPESEN
1 DEC 17 10-3P Eff 7 Dec

SAMARA, RUSSIA
SID



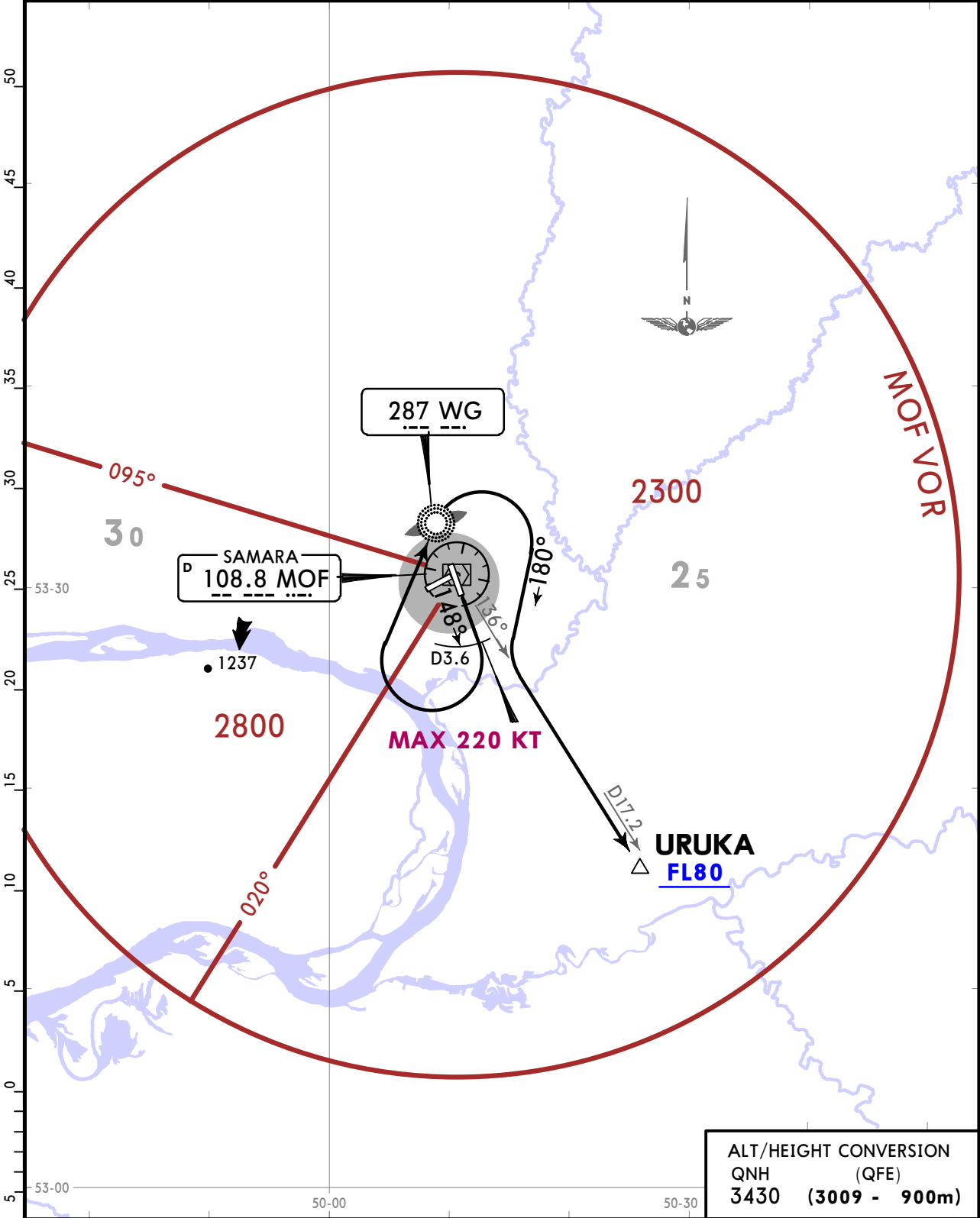
UWWW/KUF
KURUMOCH

JEPPESEN
1 DEC 17 10-3Q Eff 7 Dec

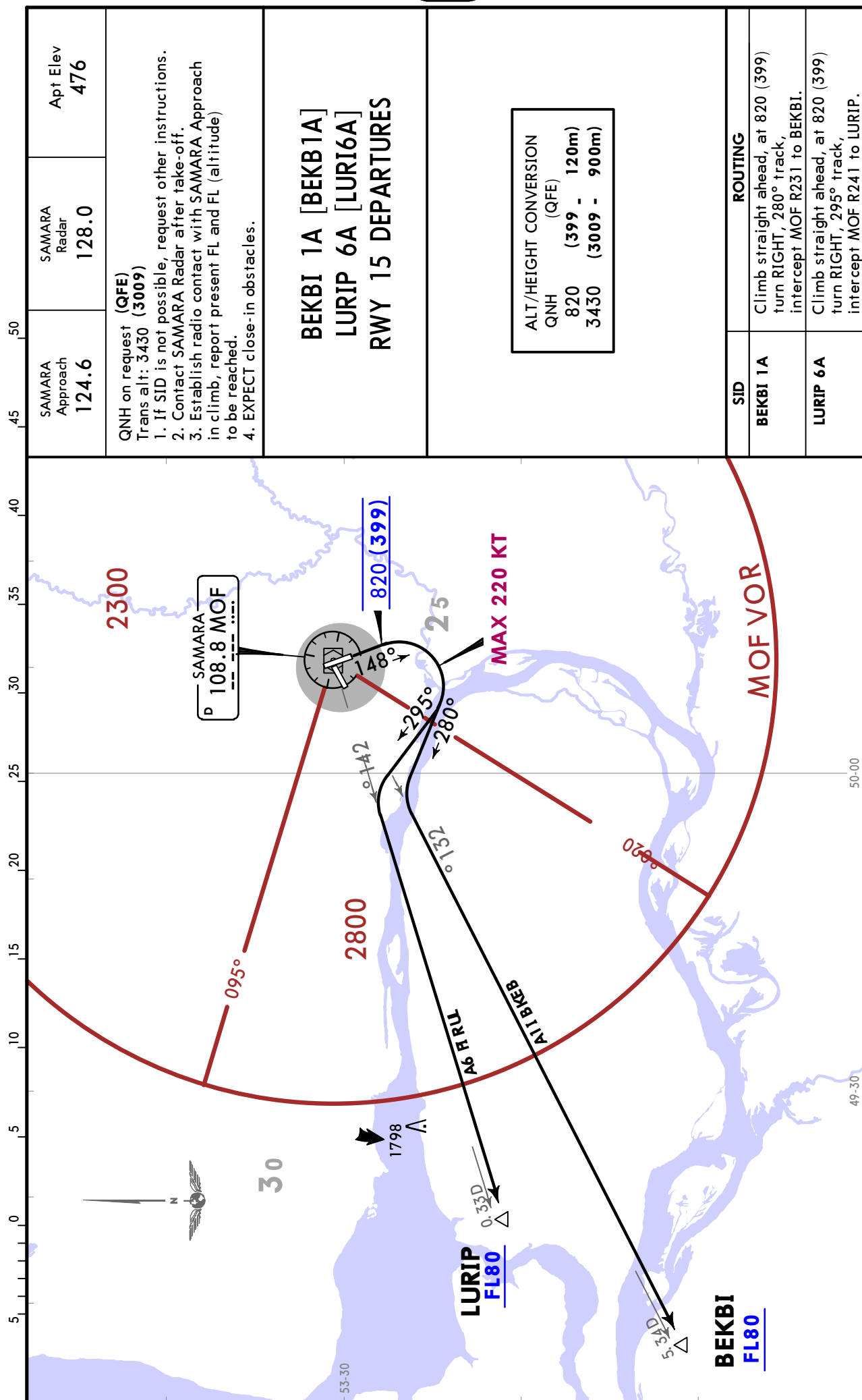
SAMARA, RUSSIA
SID

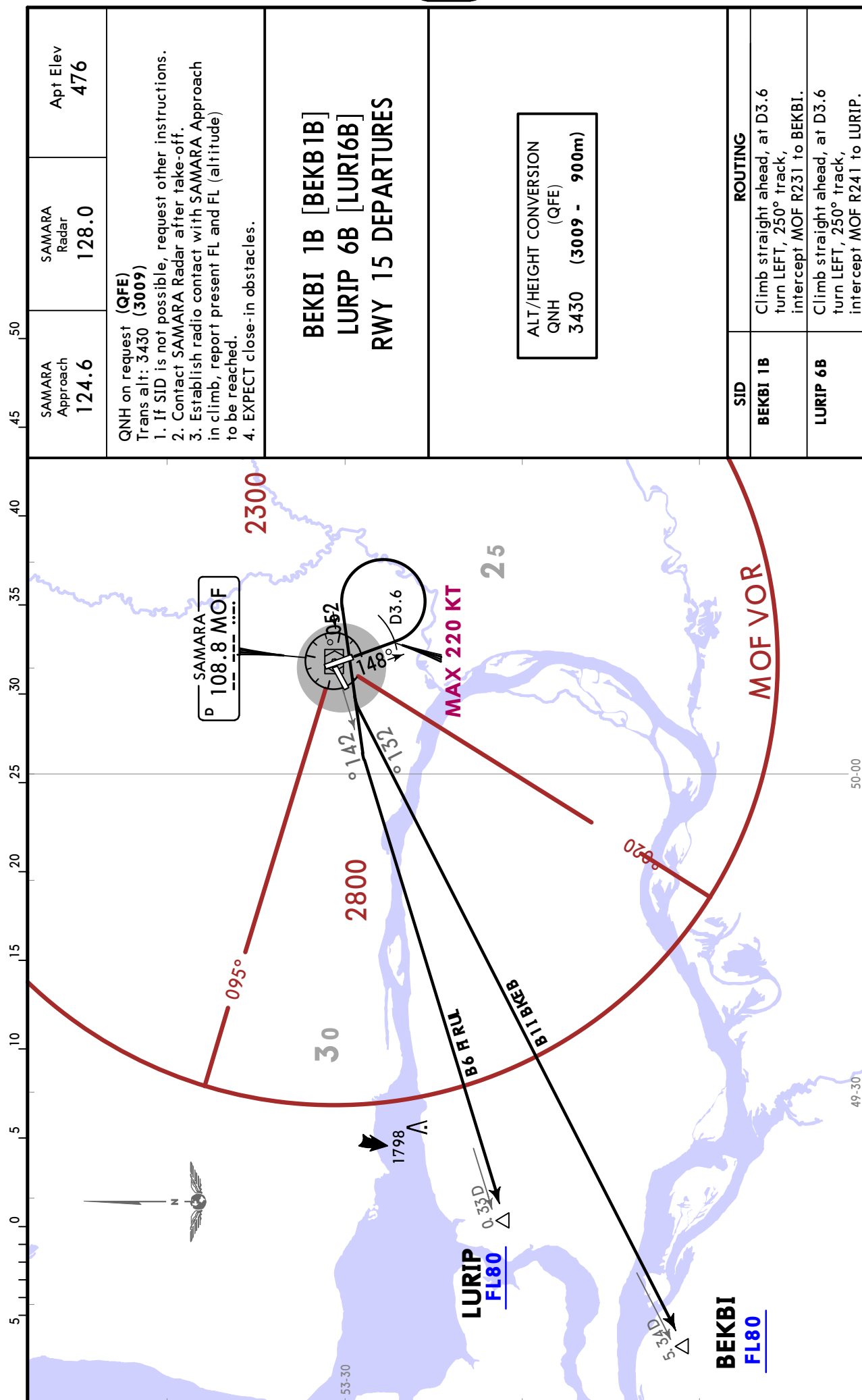
SAMARA Approach 124.6	SAMARA Radar 128.0	Apt Elev 476	QNH on request (QFE) Trans alt: 3430 (3009) 1. If SID is not possible, request other instructions. 2. Contact SAMARA Radar after take-off. 3. Establish radio contact with SAMARA Approach in climb, report present FL and FL (altitude) to be reached. 4. EXPECT close-in obstacles.
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URUKA 1A [URUK1A]
RWY 15 DEPARTURE



ROUTING
Climb straight ahead, at D3.6 turn RIGHT to WG, turn RIGHT, 180° track, intercept MOF R136 to URUKA.

SID

SID

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QNH on request **(QFE)**
Trans alt: 3430 **(3009)**

1. If SID is not possible, request other instructions.
2. Contact SAMARA Radar after take-off.
3. Establish radio contact with SAMARA Approach in climb, report present FL and FL (altitude) to be reached.
4. EXPECT close-in obstacles.

820 (399 - 120m)
3430 (3009 - 900m)

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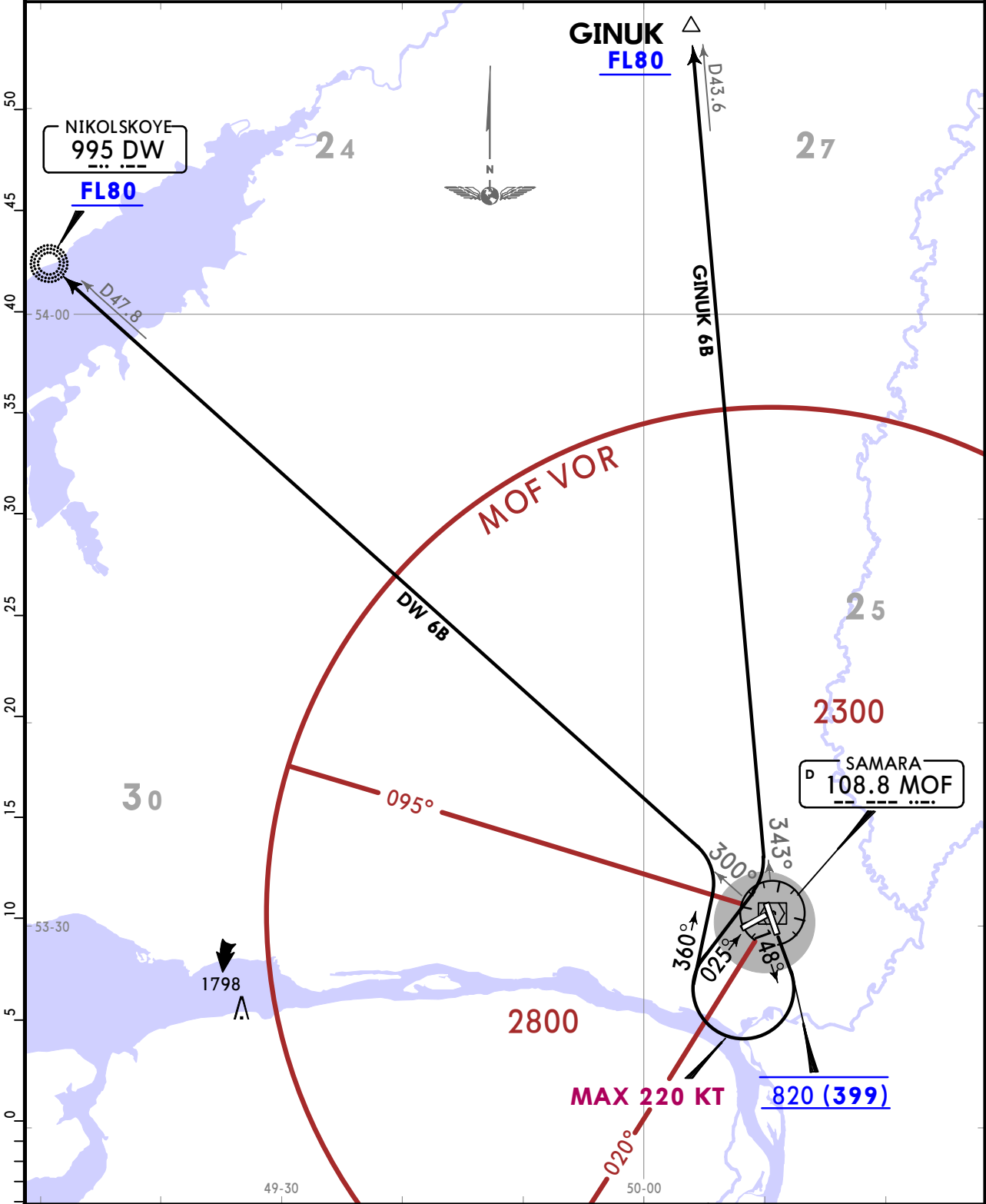
UWWW/KUF
KURUMOCH

JEPPESEN
1 DEC 17 10-3T2 Eff 7 Dec

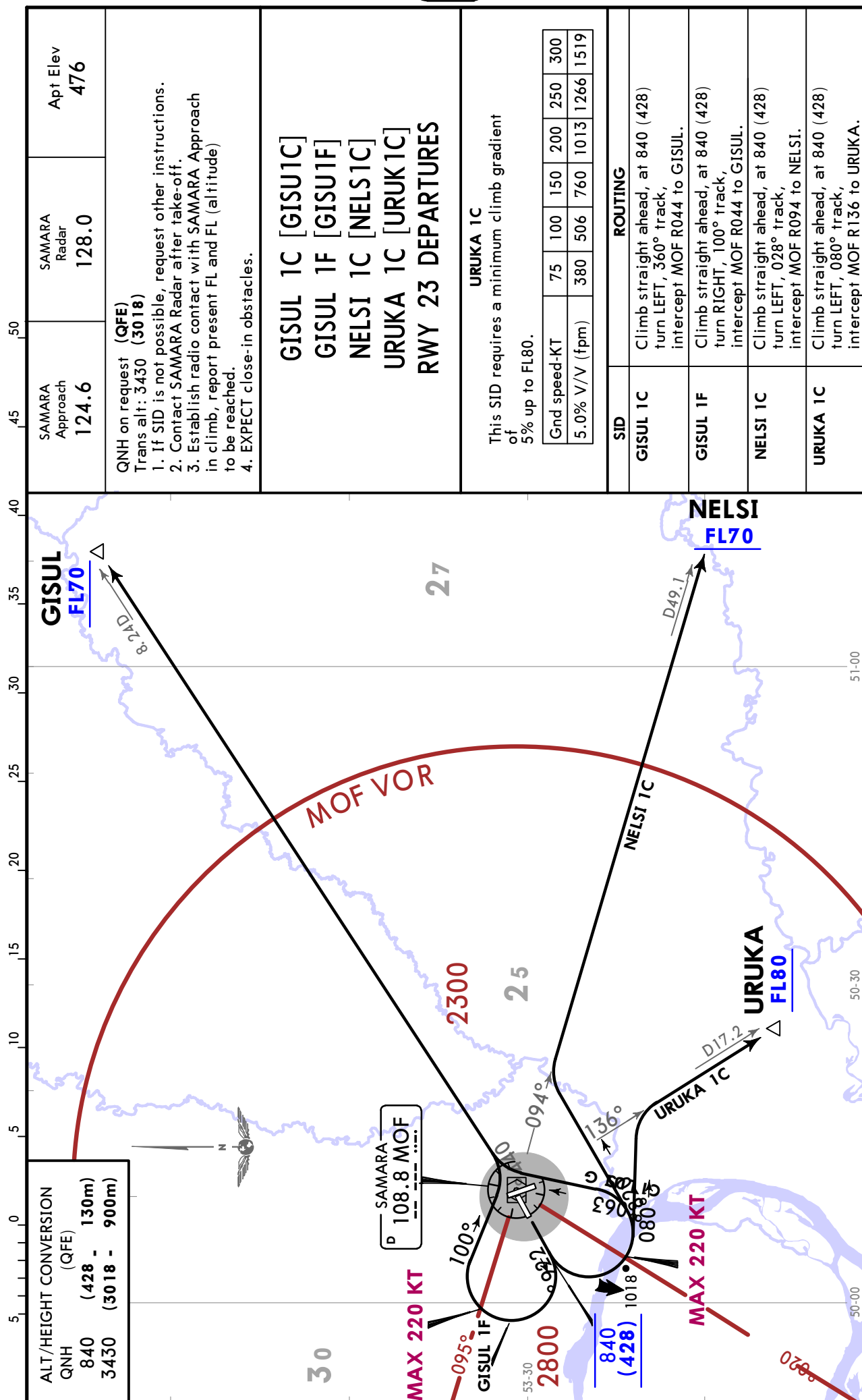
SAMARA, RUSSIA
SID

SAMARA Approach 124.6	SAMARA Radar 128.0	Apt Elev 476	QNH on request (QFE) Trans alt: 3430 (3009) 1. If SID is not possible, request other instructions. 2. Contact SAMARA Radar after take-off. 3. Establish radio contact with SAMARA Approach in climb, report present FL and FL (altitude) to be reached. 4. EXPECT close-in obstacles.
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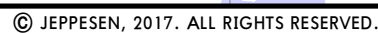
DW 6B [DW6B], GINUK 6B [GINU6B]
RWY 15 DEPARTURES

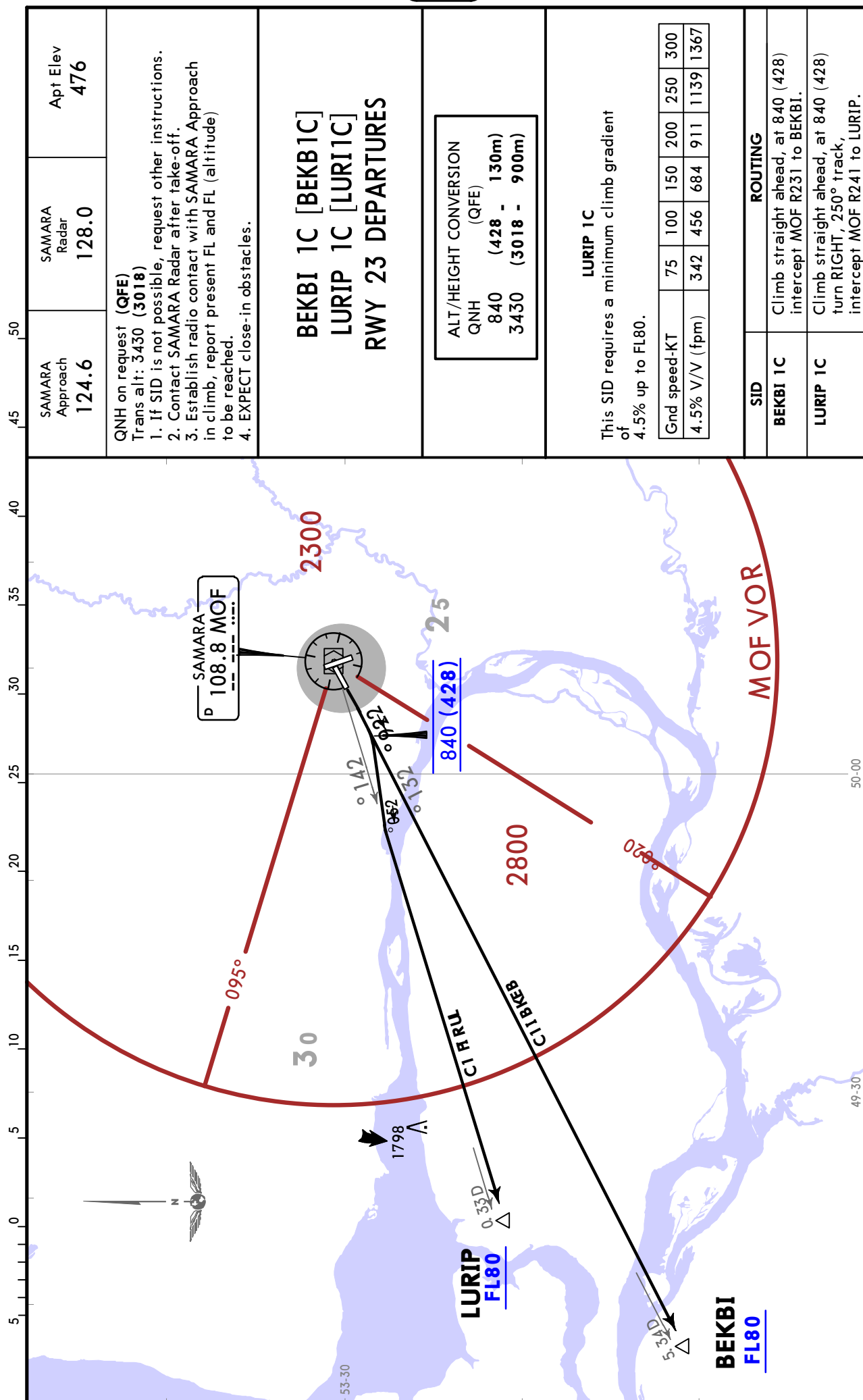


SID	ROUTING	ALT/HEIGHT CONVERSION QNH (QFE)
DW 6B	Climb straight ahead, at 820 (399) turn RIGHT 360° track, intercept MOF R300 to DW.	820 (399 - 120m)
GINUK 6B	Climb straight ahead, at 820 (399) turn RIGHT 025° track, intercept MOF R343 to GINUK.	3430 (3009 - 900m)

SID

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SID

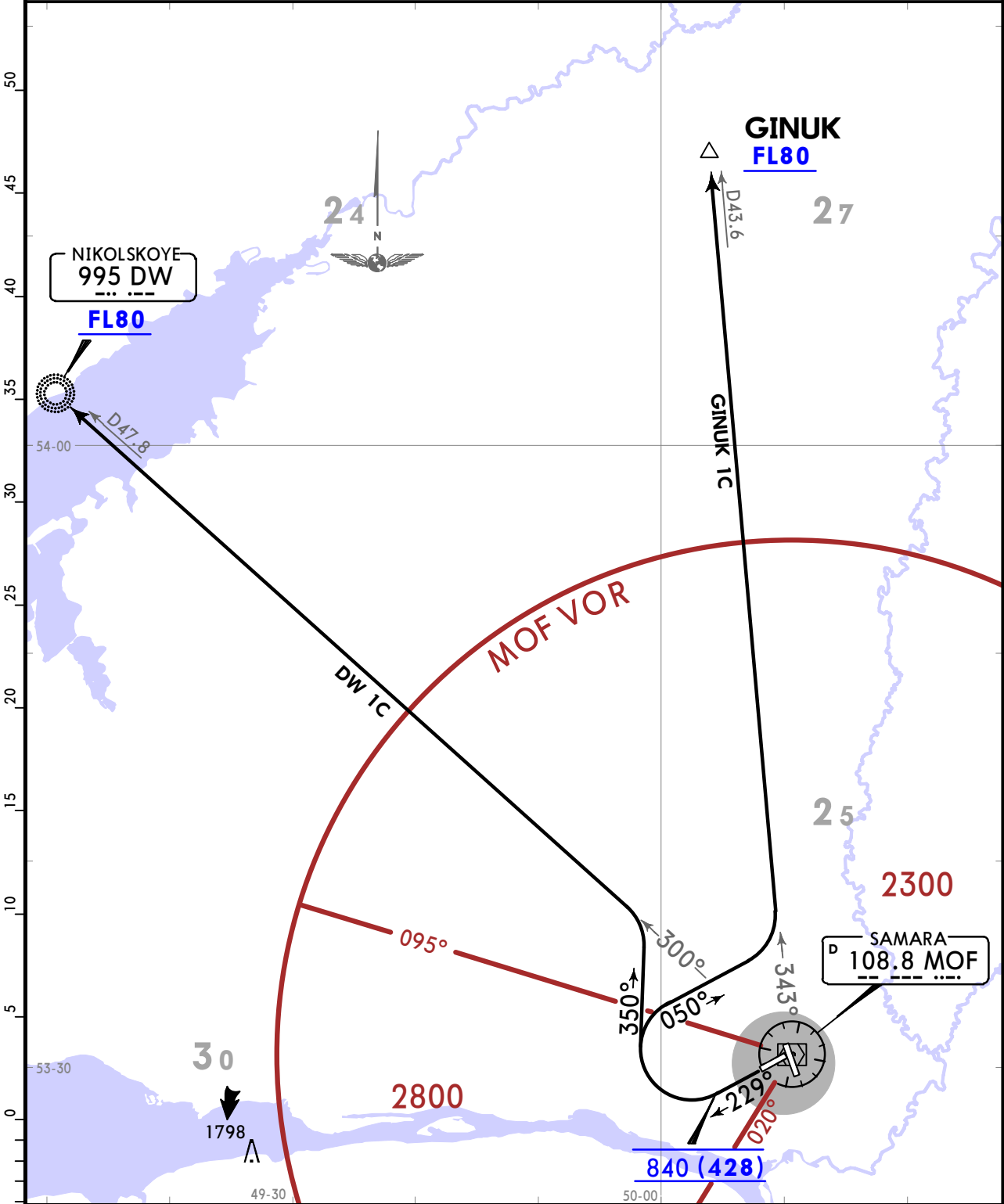
UWWW/KUF
KURUMOCH

JEPPESEN
1 DEC 17 10-3T6 Eff 7 Dec

SAMARA, RUSSIA
SID

SAMARA Approach 124.6	SAMARA Radar 128.0	Apt Elev 476	QNH on request (QFE) Trans alt: 3430 (3018) 1. If SID is not possible, request other instructions. 2. Contact SAMARA Radar after take-off. 3. Establish radio contact with SAMARA Approach in climb, report present FL and FL (altitude) to be reached. 4. EXPECT close-in obstacles.
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DW 1C [DW1C], GINUK 1C [GINU1C]
RWY 23 DEPARTURES



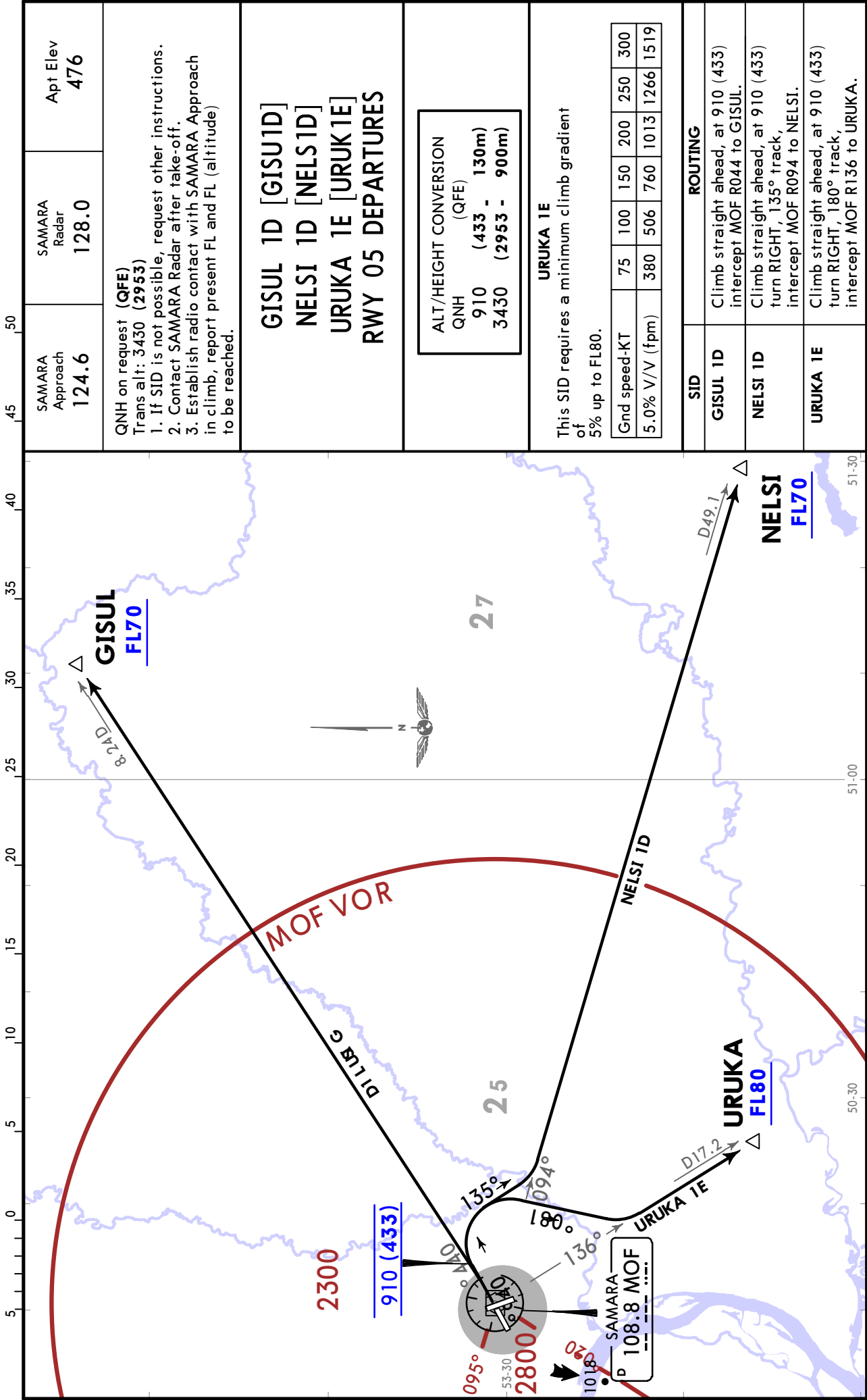
SID	ROUTING	ALT/HEIGHT CONVERSION QNH (QFE)
DW 1C	Climb straight ahead, at 840 (428) turn RIGHT, 350° track, intercept MOF R300 to DW.	840 (428 - 130m)
GINUK1C	Climb straight ahead, at 840 (428) turn RIGHT, 050° track, intercept MOF R343 to GINUK.	3430 (3018 - 900m)

UWWW/KUF
KURUMOCH

JEPPESEN
1 DEC 17 10-3T7 Eff 7 Dec

SAMARA, RUSSIA

SID



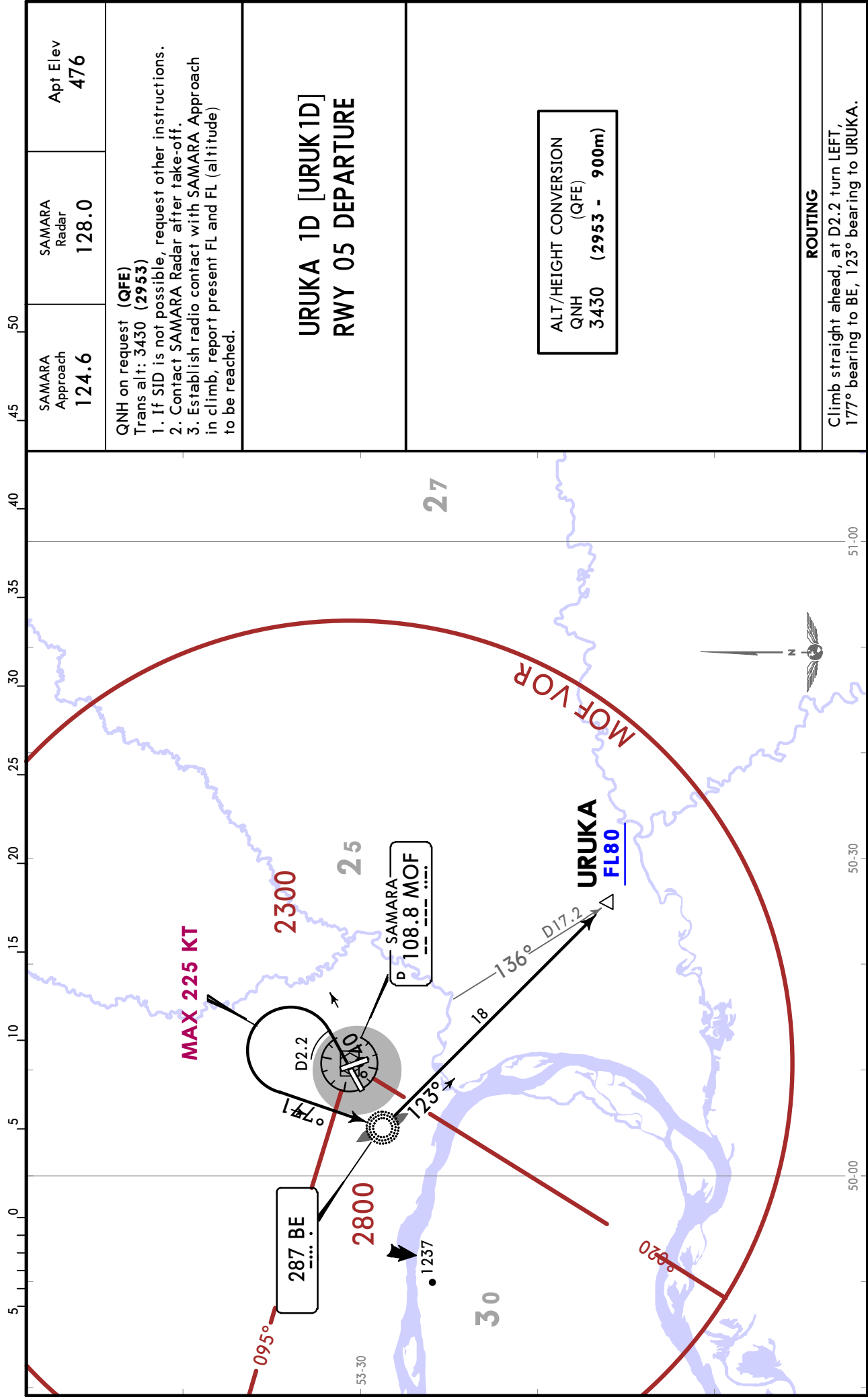
CHANGES: New chart (new SIDs at this airport).

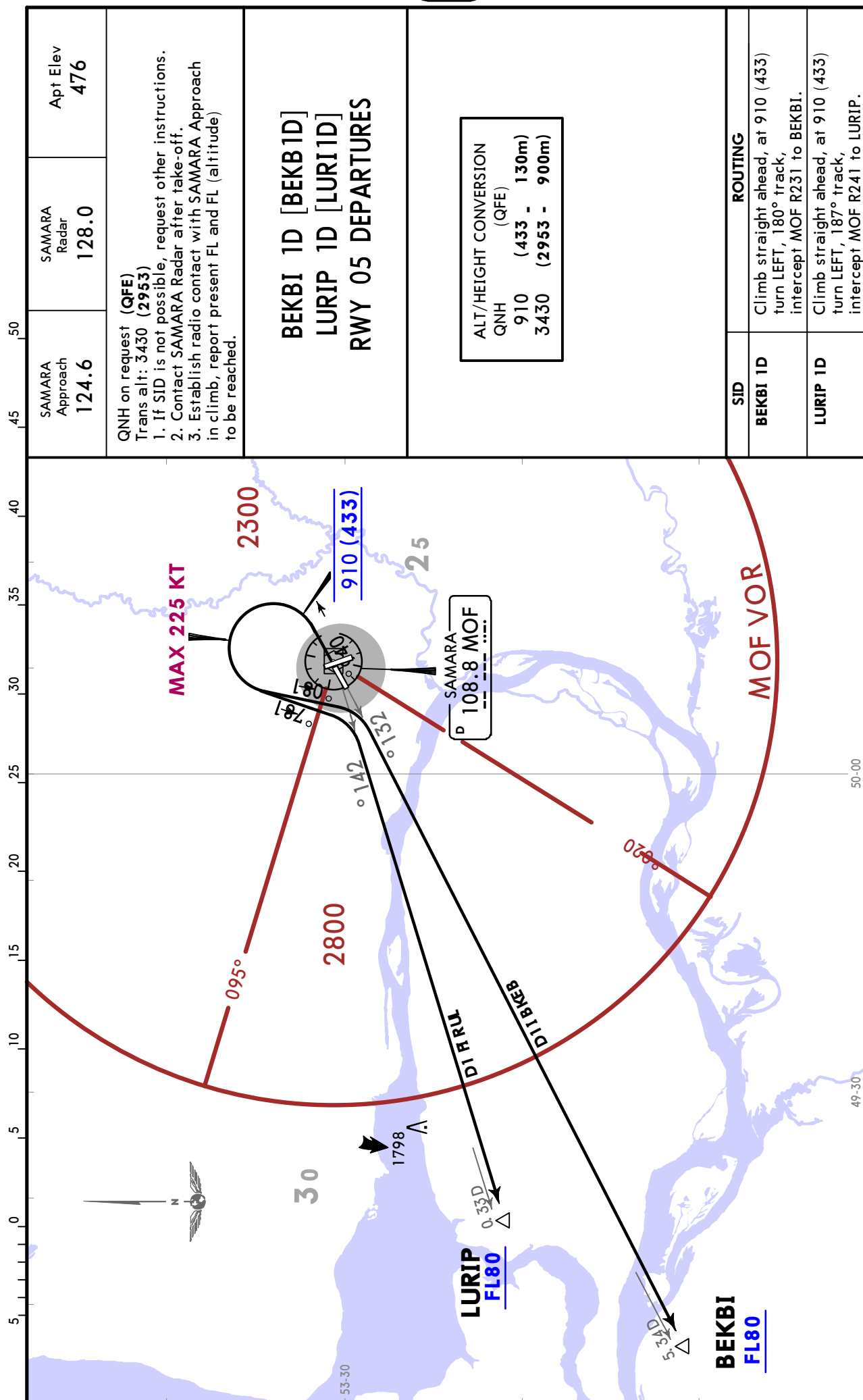
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UWWW/KUF
KURUMOCH

JEPPESSEN
1 DEC 17 10-3T8 Eff 7 Dec

SAMARA, RUSSIA
SID



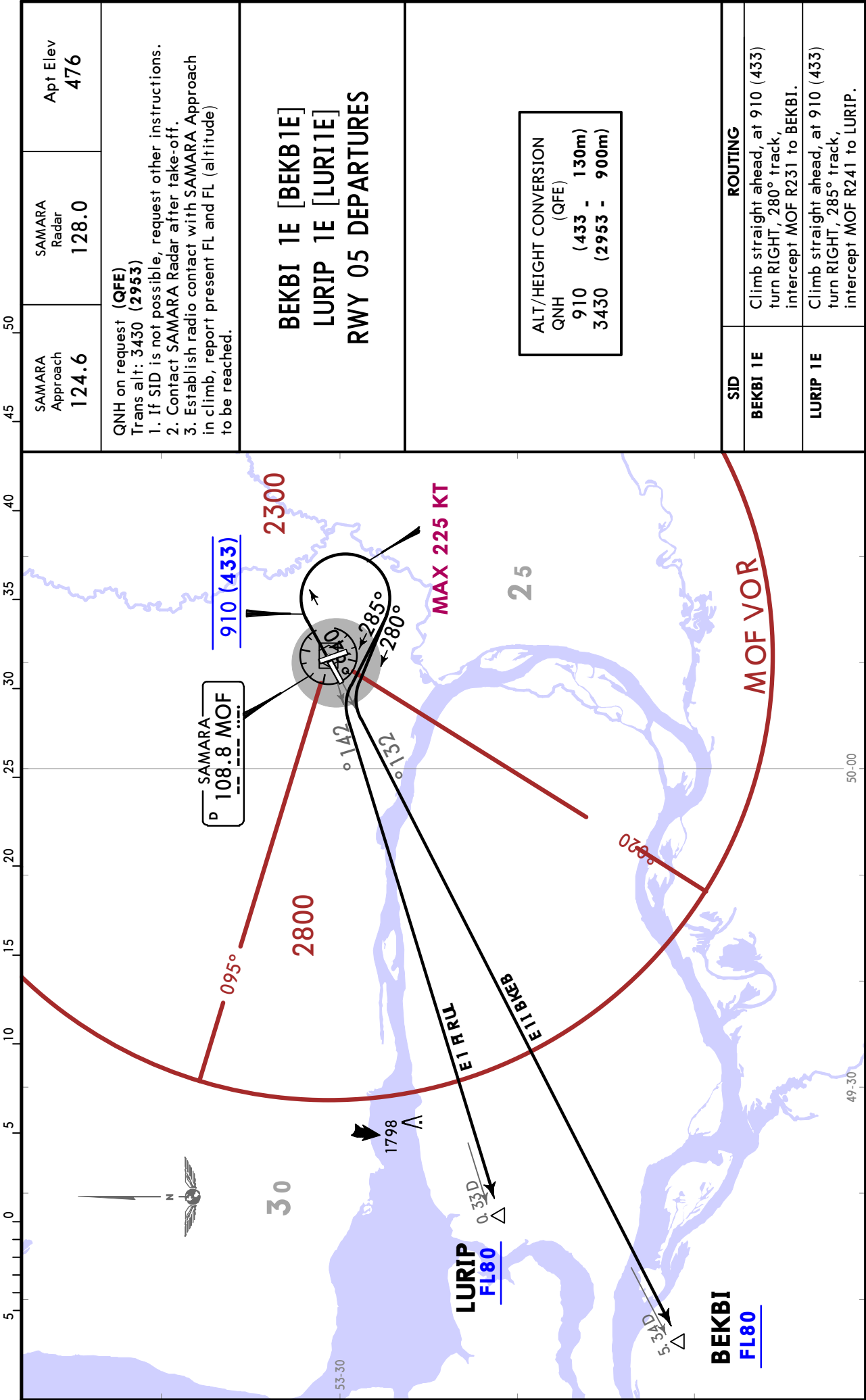
SID

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UWWW/KUF
KURUMOCH

JEPPESSEN
1 DEC 17 10-3V Eff 7 Dec

SAMARA, RUSSIA
SID



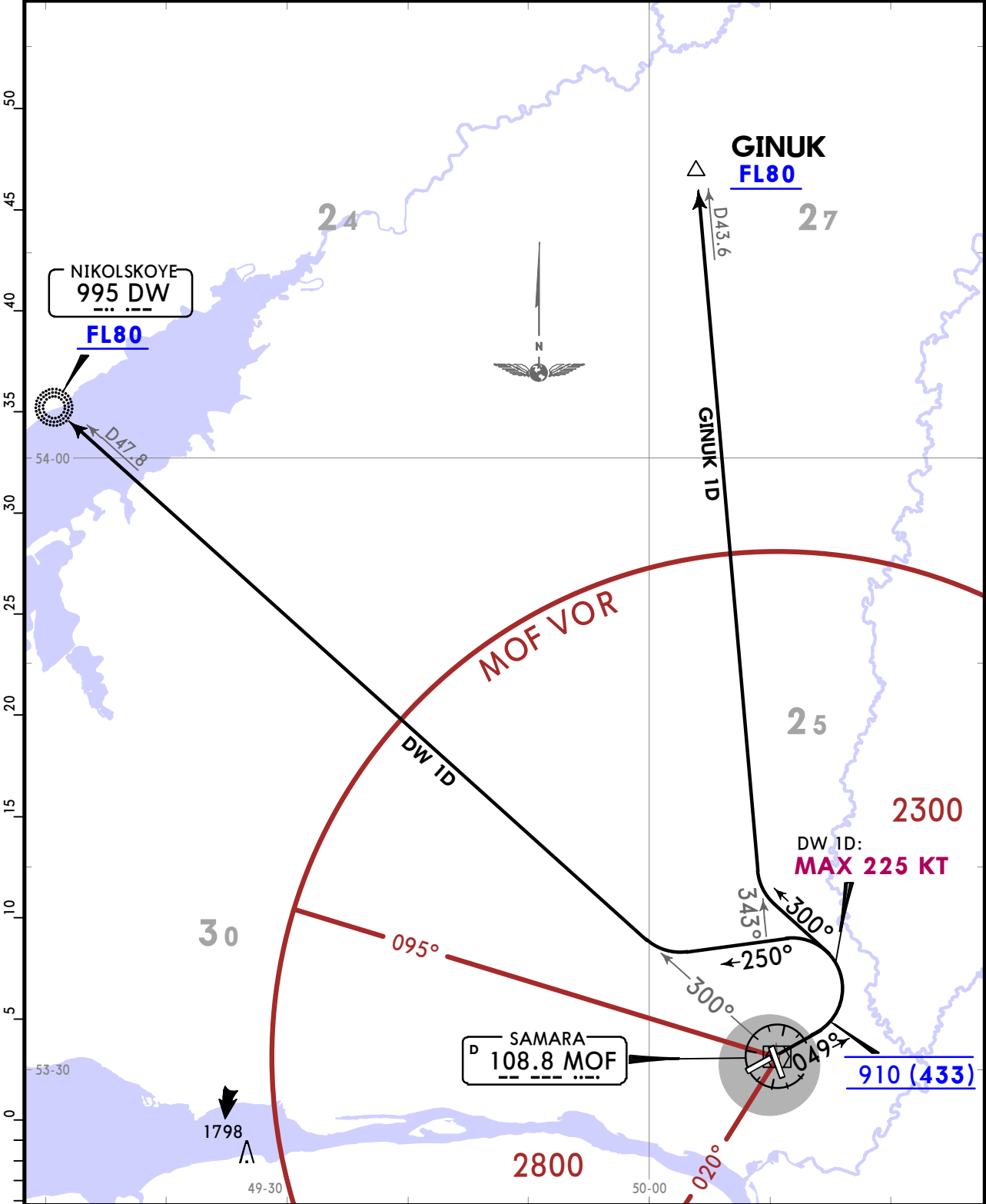
UWWW/KUF
KURUMOCH

JEPPESEN
1 DEC 17 10-3W Eff 7 Dec

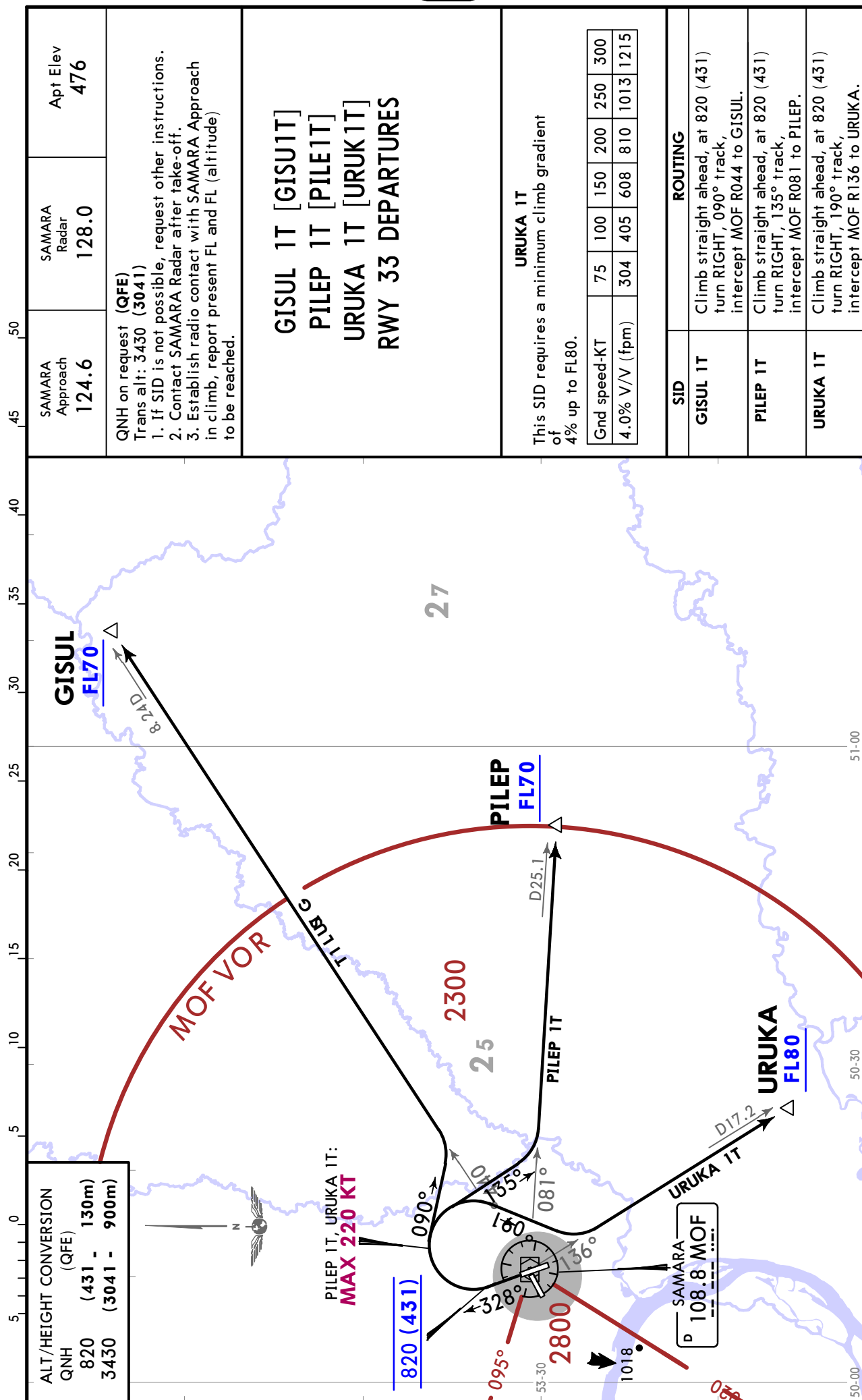
SAMARA, RUSSIA
SID

SAMARA Approach 124.6	SAMARA Radar 128.0	Apt Elev 476	QNH on request (QFE) Trans alt: 3430 (2953) 1. If SID is not possible, request other instructions. 2. Contact SAMARA Radar after take-off. 3. Establish radio contact with SAMARA Approach in climb, report present FL and FL (altitude) to be reached.
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DW 1D [DW1D]
GINUK 1D [GINU1D]
RWY 05 DEPARTURES



SID	ROUTING	ALT/HEIGHT CONVERSION QNH (QFE)
DW 1D	Climb straight ahead, at 910 (433) turn LEFT, 250° track, intercept MOF R300 to DW.	910 (433 - 130m)
GINUK 1D	Climb straight ahead, at 910 (433) turn LEFT, 300° track, intercept MOF R343 to GINUK.	3430 (2953 - 900m)

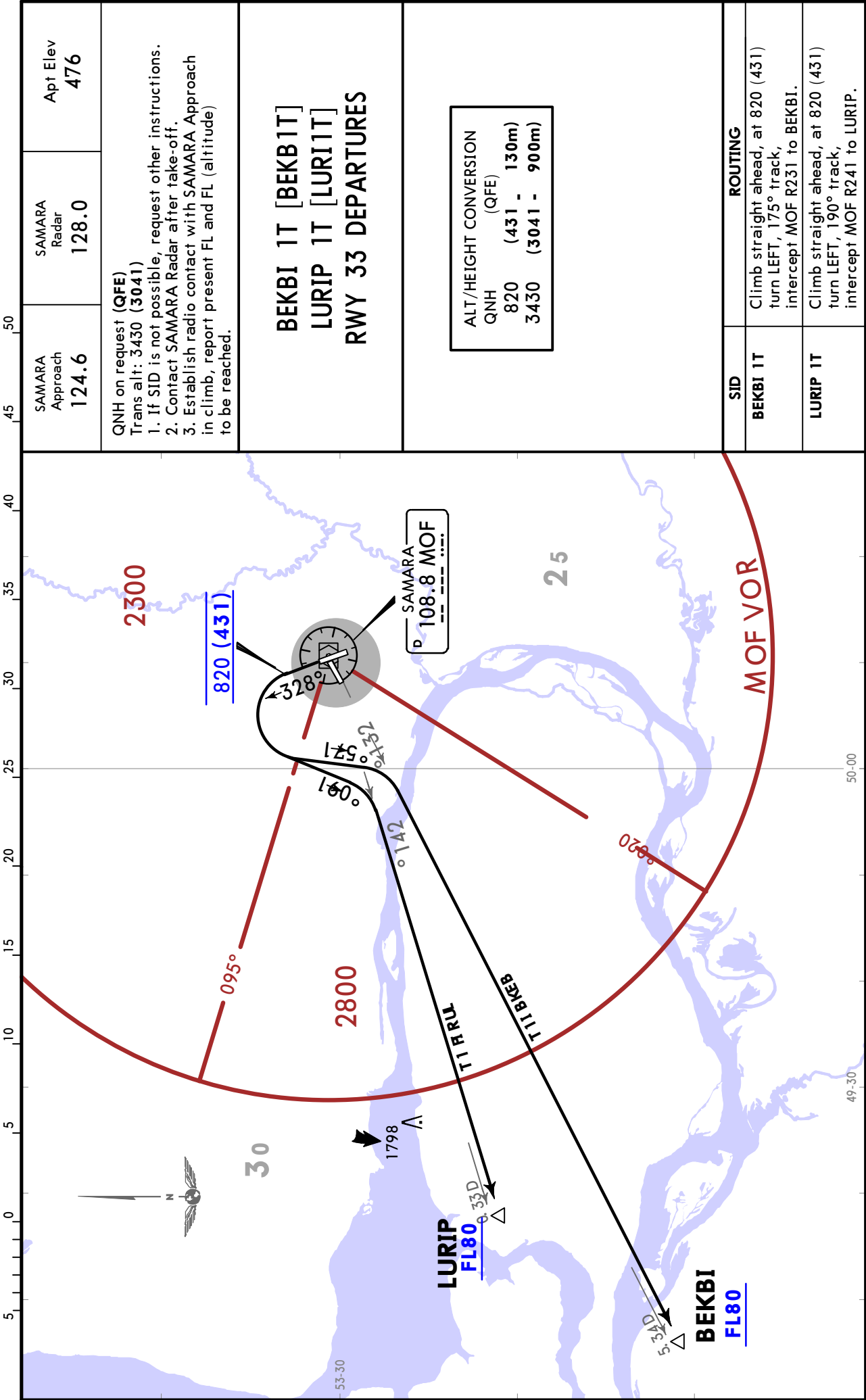
SID

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KURUMOCH

JEPPESSEN
1 DEC 17 10-3X1 Eff 7 Dec

SAMARA, RUSSIA
SID



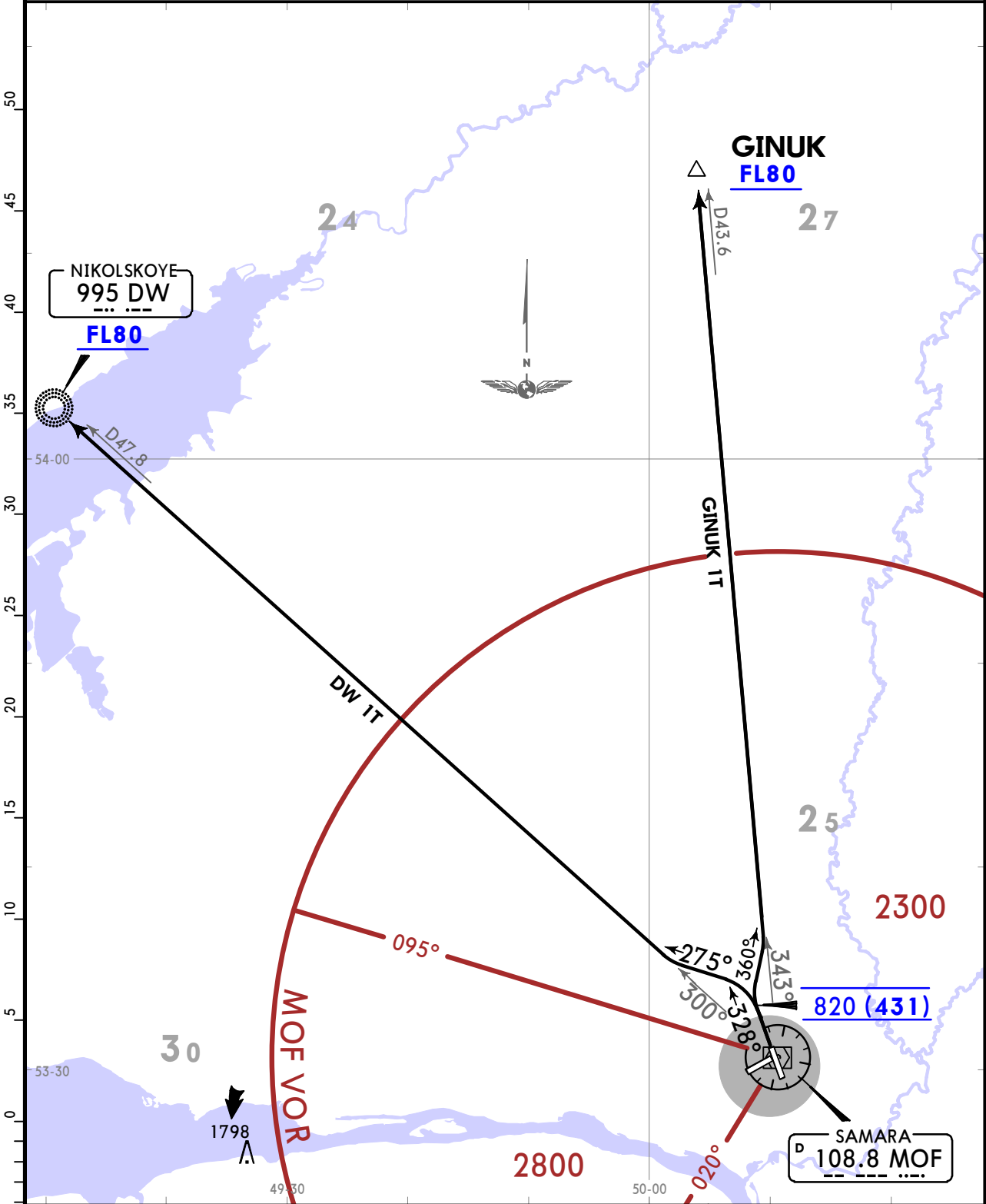
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JEPPESEN
1 DEC 17 (10-3X2) Eff 7 Dec

SAMARA, RUSSIA
SID

SAMARA Approach 124.6	SAMARA Radar 128.0	Apt Elev 476	QNH on request (QFE) Trans alt: 3430 (3041) 1. If SID is not possible, request other instructions. 2. Contact SAMARA Radar after take-off. 3. Establish radio contact with SAMARA Approach in climb, report present FL and FL (altitude) to be reached. 4. EXPECT close-in obstacles.
-----------------------------	--------------------------	-----------------	---

DW 1T [DW1T], GINUK 1T [GINU1T]
RWY 33 DEPARTURES



SID	ROUTING	ALT/HEIGHT CONVERSION QNH (QFE)
DW 1T	Climb straight ahead, at 820 (431) turn LEFT, 275° track, intercept MOF R300 to DW.	820 (431 - 130m)
GINUK 1T	Climb straight ahead, at 820 (431) turn RIGHT, 360° track, intercept MOF R343 to GINUK.	3430 (3041 - 900m)

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KURUMOCH

 **JEPPESEN**
2 NOV 18 **10-4** **Eff 8 Nov**

SAMARA, RUSSIA
NOISE

NOISE ABATEMENT

LOCAL TIME - 4 = UTC (Z)

ARRIVALS

Noise abatement procedures are not established for approach procedure.

DEPARTURES

Noise abatement procedures during take-off and climbing phase shall be executed by all aircraft, except in case of reduction of flight safety and in case of engine failure.

Flight crew of aircraft shall apply two variants of take-off and climb procedures: NADP 1 and NADP 2 (ICAO Doc 8168, Volume 1, Part VII, Chapter 3).

The pilot-in-command may use any of them for reaching the necessary effect.

Restrictions

Take-off with tail wind component is permitted within restrictions of the Airplane Flight Manual.

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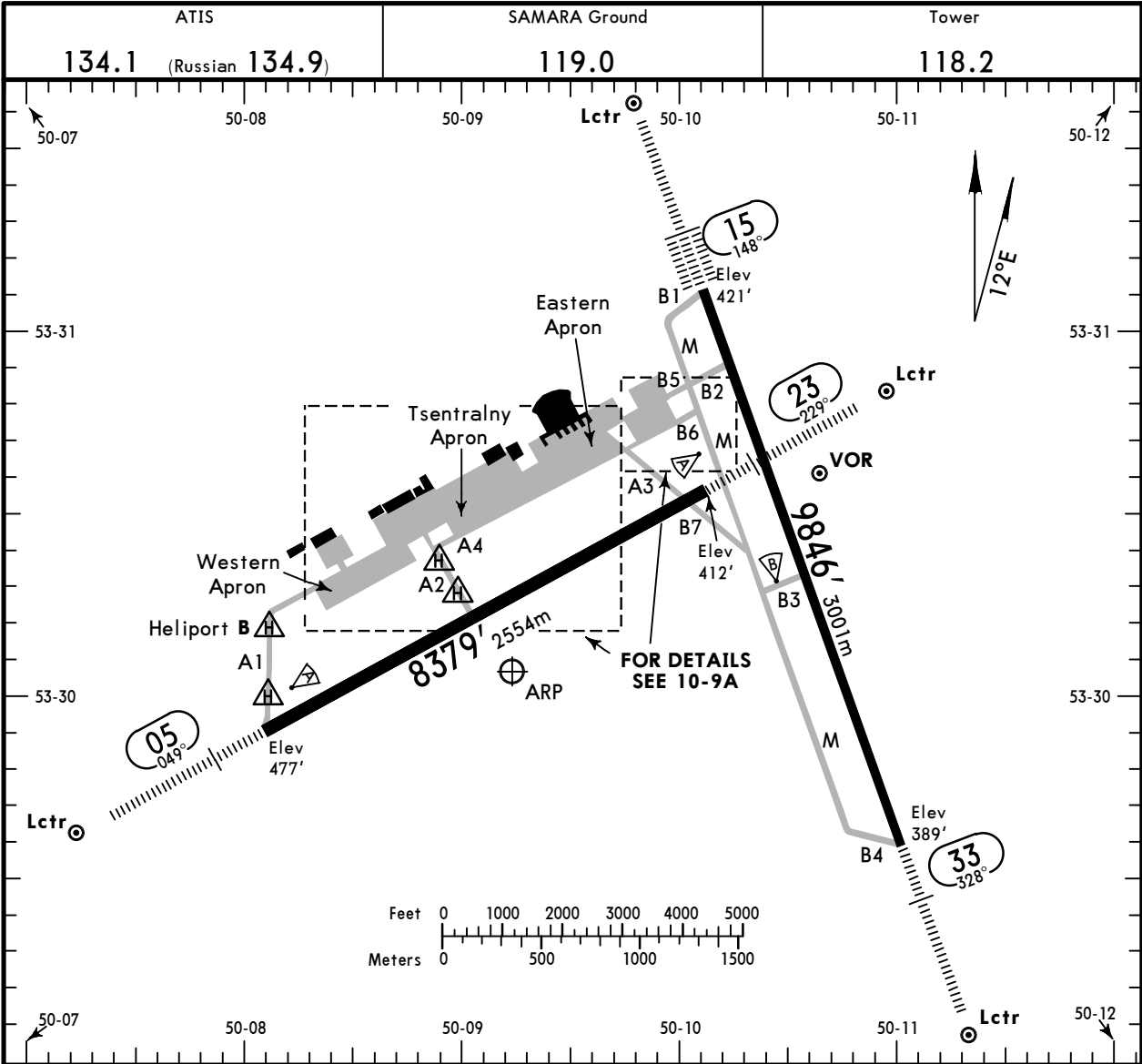
Apt Elev **476'**
N53 30.1 E050 09.2

JEPPESSEN

26 OCT 18 **(10-9)** Eff 8 Nov

SAMARA, RUSSIA

KURUMOCH



ADDITIONAL RUNWAY INFORMATION								
RWY					USABLE LENGTHS		WIDTH	
					Threshold	Glide Slope		TAKE-OFF
05 23	HIRL (60m)	HIALS	PAPI-L (3.00°)	RVR		7285' 2220m	②	197' 60m
	HIRL (60m)	HIALS	PAPI-L (2.67°)	RVR		7346' 2239m		
15 33	HIRL (60m)	CL (15m)	HIALS-II TDZ	PAPI-L ①	RVR	8691' 2649m	③	148' 45m
	HIRL (60m)	CL (15m)	HIALS	PAPI-L (2.67°)	RVR	8632' 2631m		

- ① (angle 2.67°)
- ② TAKE-OFF RUN AVAILABLE
- RWY 05:
- From rwy head 8379' (2554m)
- twy A2 int 4255' (1297m)
- RWY 23:
- From rwy head 8379' (2554m)
- twy A2 int 4121' (1256m)
- ③ TAKE-OFF RUN AVAILABLE
- RWY 15:
- From rwy head 9846' (3001m)
- twy B2 int 8274' (2522m)
- RWY 33:
- From rwy head 9846' (3001m)
- twy B3 int 5230' (1594m)

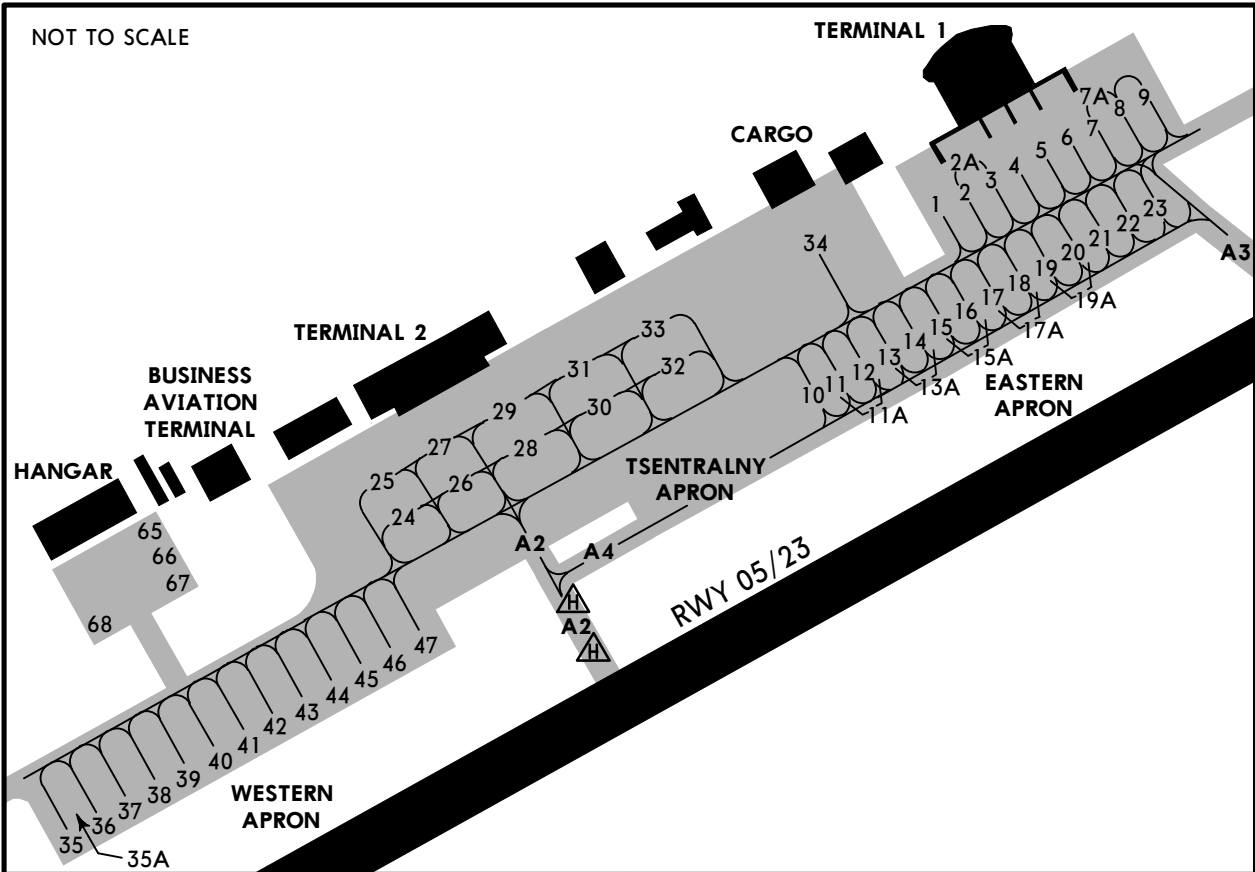
TAKE-OFF		
AIR CARRIER (JAA)		
All Rwys		
LVP must be in force		
	RL & CL	RCLM (DAY only) or RL
A		
B	200m (150m)	250m
C		
D	250m (200m)	300m
		RCLM (DAY only) or RL
		400m

RVR in parentheses if TDZ RVR is supplemented by Mid and/or Rollout RVR.

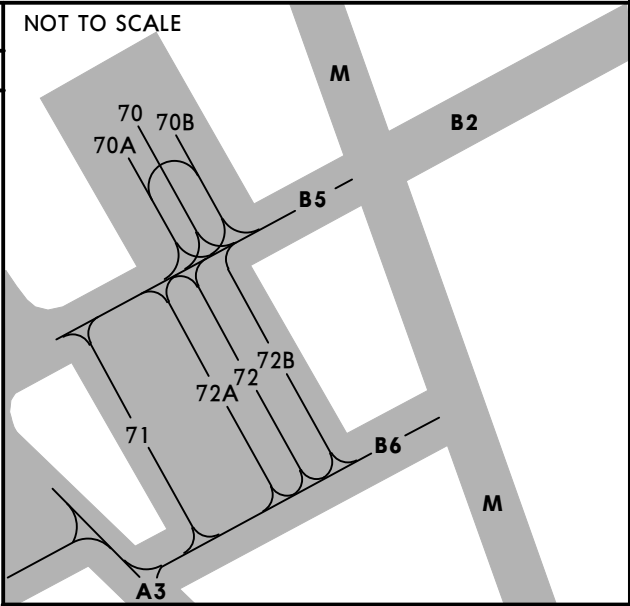
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JEPPESSEN
26 OCT 18 **10-9A** **Eff 8 Nov**

SAMARA, RUSSIA
KURUMOCH



INS COORDINATES	
STAND No.	COORDINATES
1 thru 3	N53 30.7 E050 09.4
4, 5	N53 30.7 E050 09.5
6 thru 8	N53 30.7 E050 09.6
9	N53 30.7 E050 09.7
10, 11	N53 30.5 E050 08.2
12 thru 14	N53 30.5 E050 08.3
15 thru 17	N53 30.6 E050 08.4
18, 19	N53 30.6 E050 08.5
20 thru 22	N53 30.6 E050 08.6
23	N53 30.6 E050 08.7
24 thru 26	N53 30.4 E050 08.8
27	N53 30.5 E050 08.8
28, 29	N53 30.5 E050 08.9
30	N53 30.5 E050 09.0
31	N53 30.5 E050 08.9
32, 33	N53 30.5 E050 08.0
34	N53 30.6 E050 08.1
35	N53 30.2 E050 08.3
36, 37	N53 30.2 E050 08.4
38	N53 30.2 E050 08.5
39, 40	N53 30.3 E050 08.5
41, 42	N53 30.3 E050 08.6
43 thru 45	N53 30.3 E050 08.7
46	N53 30.3 E050 08.8
47	N53 30.4 E050 08.8
70	N53 30.8 E050 09.9
71	N53 30.7 E050 09.9
72	N53 30.7 E050 10.0



Taxiing to stands 65 thru 68 by towing.
All stands available for helicopters.
Engines start-up prohibited on stands 65 thru 68.

UWWW/KUF


JEPPESSEN
 26 OCT 18 **10-9B**

Eff 8 Nov

SAMARA, RUSSIA
KURUMOCH

General

Rwy 15 approved for CAT II/III operations, special aircrew and acft certification required.

Taxiing and towing only with GROUND controller's clearance.

Crossing of ILS critical area only with TOWER controller's clearance.

Taxiing about the apron and taxiways shall be carried out after the Follow-me car if meteorological visibility is less than 400m.

Taxiing at night and in the day-time, when visibility is 2000m or less, shall be carried out with navigation and taxi lights on. Anti-collision lights must be switched on from engines start-up to shutdown in the day-time and at night.

Acft taxiing on the apron shall be carried out with increased caution of the flight crew at the minimum speed.

Taxiing along twy A1 must be carried out strictly along the taxi guide line, at reduced speed, at idle power.

Birds.

LOW VISIBILITY PROCEDURES (LVP)

LVP are in progress if RVR is 550m or less.

Flight crews will be informed about LVP initiation by ATIS or ATS controller by the phrase: "Low visibility procedures in progress, check your minimum".

ARRIVAL

The flight crew shall report rwy vacated to TWR controller only after acft has passed the last yellow light of the taxiway centerline indicating the vacated area of ILS critical area.

Acft must vacate ILS critical area as soon as possible.

After landing on rwy 15 acft must vacate the rwy only via twy B4.

After vacating rwy 15 via twy B4 and reporting the vacated area to TWR controller, the flight crew shall change over to the communication with GND controller by instruction of TWR controller. The flight crew shall continue proceeding via the assigned taxi route using taxiway centerline lights of twy M, B7, A3 under control of GND controller, unless otherwise instructed. Further acft taxiing shall be carried out only after the Follow-me car.

The flight crew shall report acft entry into stand to GND controller as follows: "Acft call sign + on stand No."

DEPARTURE

During LVP the following is prohibited:

- take-off not from the runway beginning;
- take-off without stop at the line-up position.

Flight crew is responsible for all acft movement under conditions of complete safety.

Only twys with centerline lights shall be used. In case of a failure of twy centerline lights or the stop bars, Follow-me car is necessary.

Taxiing on the apron area only after Follow-me car under control of GND controller.

Taxiing for take-off from rwys 15, 23 and 33 shall be carried out after Follow-me car using centerline lights of the respective twy.

At the established transfer of control limit the flight crew shall change over from GND to TWR controller if instructed.

Flight crew should read back all TWR controller's instructions on holding at the rwy.

After receiving the line-up clearance the flight crew must start taxiing only after switching off the stop bar lights.

LVP will be terminated if RVR is more than 600 m.

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JEPPesen

6 JUL 18

10-9S

Eff 19 Jul

Standard

SAMARA, RUSSIA
KURUMOCH

STRAIGHT-IN RWY		A	B	C	D
05	ILS Z, Y or X FULL ALS out	677' (200') ① R550m R1200m	677' (200') ① R550m R1200m	677' (200') ① R550m R1200m	677' (200') ① R550m R1200m
	GLS FULL ALS out	677' (200') ① R550m R1200m	677' (200') ① R550m R1200m	677' (200') ① R550m R1200m	677' (200') ① R550m R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	② RNAV (GNSS)	910' (433') R1300m R1500m	910' (433') R1300m R1500m	910' (433') R1300m R2000m	910' (433') R1300m R2000m
	ALS out				
	② VOR	910' (433') R1300m R1500m	910' (433') R1300m R1500m	910' (433') R1300m R2000m	910' (433') R1300m R2000m
	ALS out				
	② NDB or NDB Y	910' (433') R1300m R1500m	910' (433') R1300m R1500m	910' (433') R1300m R2000m	910' (433') R1300m R2000m
	ALS out				
	NDB X	1760' (1283') R5000m	1760' (1283') R5000m	1760' (1283') R5000m	1760' (1283') R5000m
15	CAT 3A ILS Z, Y or X	RA50' R200m	RA50' R200m	RA50' R200m	RA50' R200m
	CAT 2 ILS Z, Y or X	521' (100') RA118' R300m	521' (100') RA118' R300m	521' (100') RA118' R300m	521' (100') RA118' R300m
	ILS Z, Y or X FULL TDZ or CL out ALS out	621' (200') R550m ① R550m R1200m	621' (200') R550m ① R550m R1200m	621' (200') R550m ① R550m R1200m	621' (200') R550m ① R550m R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	② RNAV (GNSS)	790' (369') R1000m R1500m	790' (369') R1000m R1500m	790' (369') R1000m R1700m	790' (369') R1000m R1700m
	ALS out				
	② VOR with D2.4 ALS out	810' (389') R1100m R1500m	810' (389') R1100m R1500m	810' (389') R1100m R1800m	810' (389') R1100m R1800m
	ALS out				
	② VOR w/o D2.4 ALS out	960' (529') R1500m R1500m	960' (529') R1500m R1500m	960' (529') R1700m R2400m	960' (529') R1700m R2400m
	ALS out				
	② NDB	840' (419') R1200m R1500m	840' (419') R1200m R1500m	840' (419') R1200m R1900m	840' (419') R1200m R1900m
	ALS out				

① W/o HUD/AP/FD: RVR 750m.

② Continuous Descent Final Approach.

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JEPPESSEN

6 JUL 18

10-9S1

Eff 19 Jul

Standard

SAMARA, RUSSIA
KURUMOCH

STRAIGHT-IN RWY		A	B	C	D
15 (contd)	① NDB Y	1010' (589') R1500m	1010' (589') R1500m	1010' (589') R2000m	1010' (589') R2000m
	ALS out	R1500m	R1500m	R2400m	R2400m
	NDB Y	1010' (589') R2200m	1010' (589') R2200m	1010' (589') R2400m	1010' (589') R2400m
	ALS out	R2900m	R2900m	R3100m	R3100m
	① NDB X with D2.4	810' (389') R1100m	810' (389') R1100m	810' (389') R1100m	810' (389') R1100m
	ALS out	R1500m	R1500m	R1800m	R1800m
	① NDB X w/o D2.4	960' (529') R1500m	960' (529') R1500m	960' (529') R1700m	960' (529') R1700m
	ALS out	R1500m	R1500m	R2400m	R2400m
23	ILS Z, Y or X FULL	612' (200') ② R550m	612' (200') ② R550m	612' (200') ② R550m	612' (200') ② R550m
	ALS out	R1200m	R1200m	R1200m	R1200m
	GLS FULL	612' (200') ② R550m	612' (200') ② R550m	612' (200') ② R550m	612' (200') ② R550m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	① RNAV (GNSS)	790' (378') R1000m	790' (378') R1000m	790' (378') R1000m	810' (398') R1100m
	ALS out	R1500m	R1500m	R1700m	R1800m
	① VOR	760' (348') R900m	760' (348') R900m	760' (348') R900m	760' (348') R900m
	ALS out	R1500m	R1500m	R1600m	R1600m
	① NDB	720' (308') R750m	720' (308') R750m	730' (318') R750m	740' (328') R800m
	ALS out	R1400m	R1400m	R1400m	R1500m
	① NDB Y	720' (308') R750m	720' (308') R750m	720' (308') R750m	730' (318') R750m
	ALS out	R1400m	R1400m	R1400m	R1400m
	NDB X	770' (358') R900m	770' (358') R900m	770' (358') R900m	770' (358') R900m
	ALS out	R1500m	R1500m	R1600m	R1600m
33	ILS Z, Y or X FULL	589' (200') ② R550m	589' (200') ② R550m	589' (200') ② R550m	589' (200') ② R550m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	① RNAV (GNSS)	790' (401') R1200m	790' (401') R1200m	790' (401') R1200m	790' (401') R1200m
	ALS out	R1500m	R1500m	R1900m	R1900m

① Continuous Descent Final Approach.

② W/o HUD/AP/FD: RVR 750m.

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JEPPESEN
1 DEC 17 **10-9S2** Eff 7 Dec

Standard
SAMARA, RUSSIA
KURUMOCH

STRAIGHT-IN RWY		A	B	C	D
33 (contd)					
① VOR		730' (341')	730' (341')	730' (341')	730' (341')
with D3.2		R900m	R900m	R900m	R900m
ALS out		R1500m	R1500m	R1600m	R1600m
① VOR		790' (401')	790' (401')	790' (401')	790' (401')
w/o D3.2		R1200m	R1200m	R1200m	R1200m
ALS out		R1500m	R1500m	R1900m	R1900m
① NDB or NDB Y		790' (401')	790' (401')	790' (401')	790' (401')
		R1200m	R1200m	R1200m	R1200m
ALS out		R1500m	R1500m	R1900m	R1900m
① NDB X		1350' (961')	1350' (961')	1350' (961')	1350' (961')
		R1500m	R1500m	R2400m	R2400m
NDB X		1350' (961')	1350' (961')	1350' (961')	1350' (961')
		R4000m	R4000m	R4200m	R4200m
ALS out		R4700m	R4700m	R4900m	R4900m

① Continuous Descent Final Approach.

CIRCLE-TO-LAND	100 KT	135 KT	180 KT	205 KT
	940' (464')	980' (504')	1090' (614')	1190' (714')
After NDB X 05	1760' (1284')	1760' (1284')	1760' (1284')	1760' (1284')
After VOR & NDB X 15	1010' (534')	1010' (534')	1090' (614')	1190' (714')
After NDB Y 15	1050' (574')	1050' (574')	1090' (614')	1190' (714')
After NDB X 33	1430' (954')	1430' (954')	1430' (954')	1430' (954')
	V1500m②	V1600m②	V2400m②	V3600m②

② or higher minimums of preceding straight-in approach.

TAKE-OFF

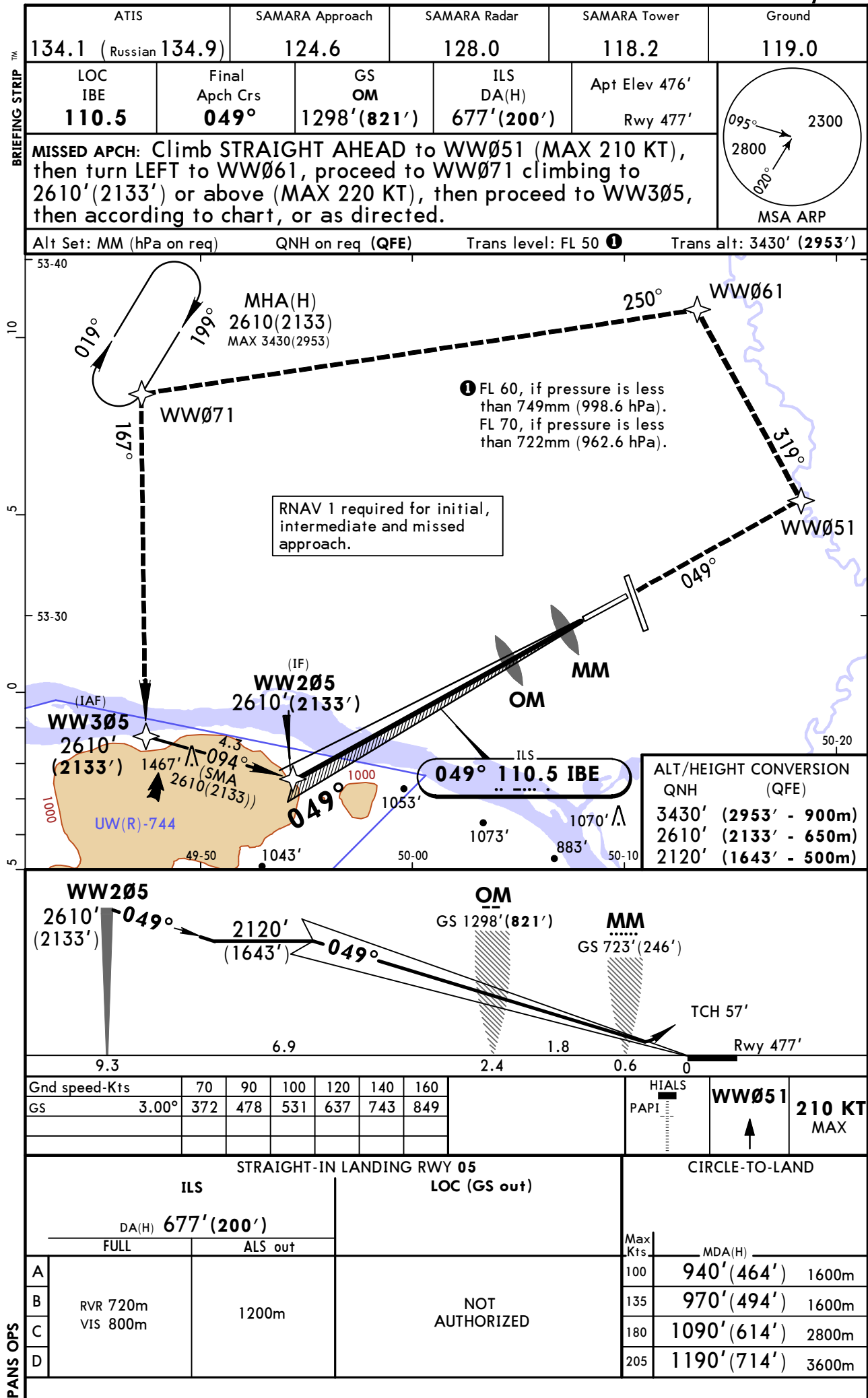
	Low Visibility Take-off					
	③ HIRL, CL & relevant RVR	RL, CL & relevant RVR	RL & CL	Day: RL & RCLM Night: RL or CL	Day: RL or RCLM Night: RL or CL	Adequate vis ref (Day only)
A						
B	TDZ, MID, RO	TDZ, MID, RO				
C	R125m	R150m	R200m	R300m	400m	500m
D						

③ RWY 15: R75m with approved guidance system or HUD/HUDLS.

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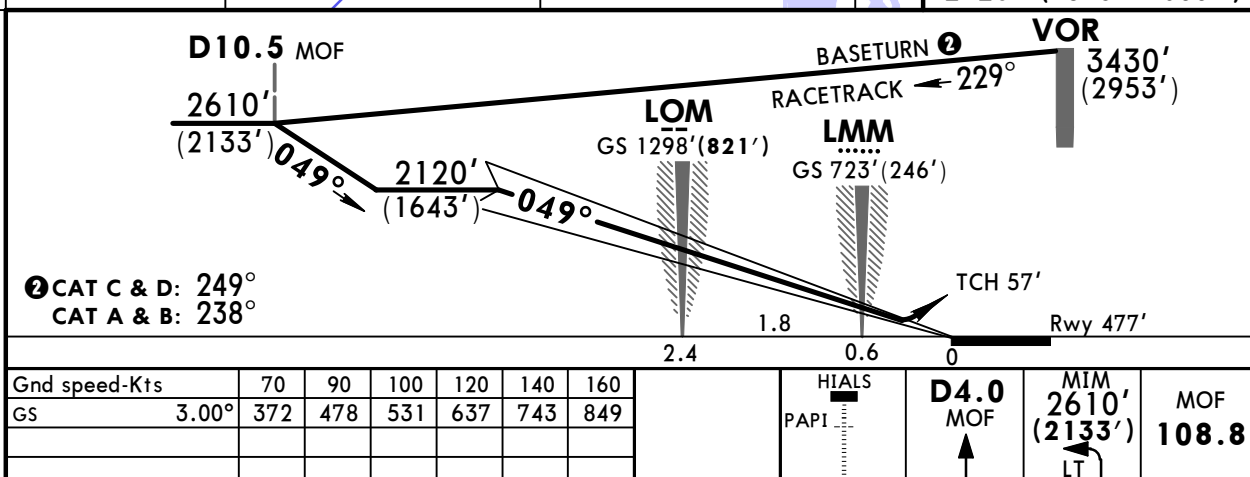
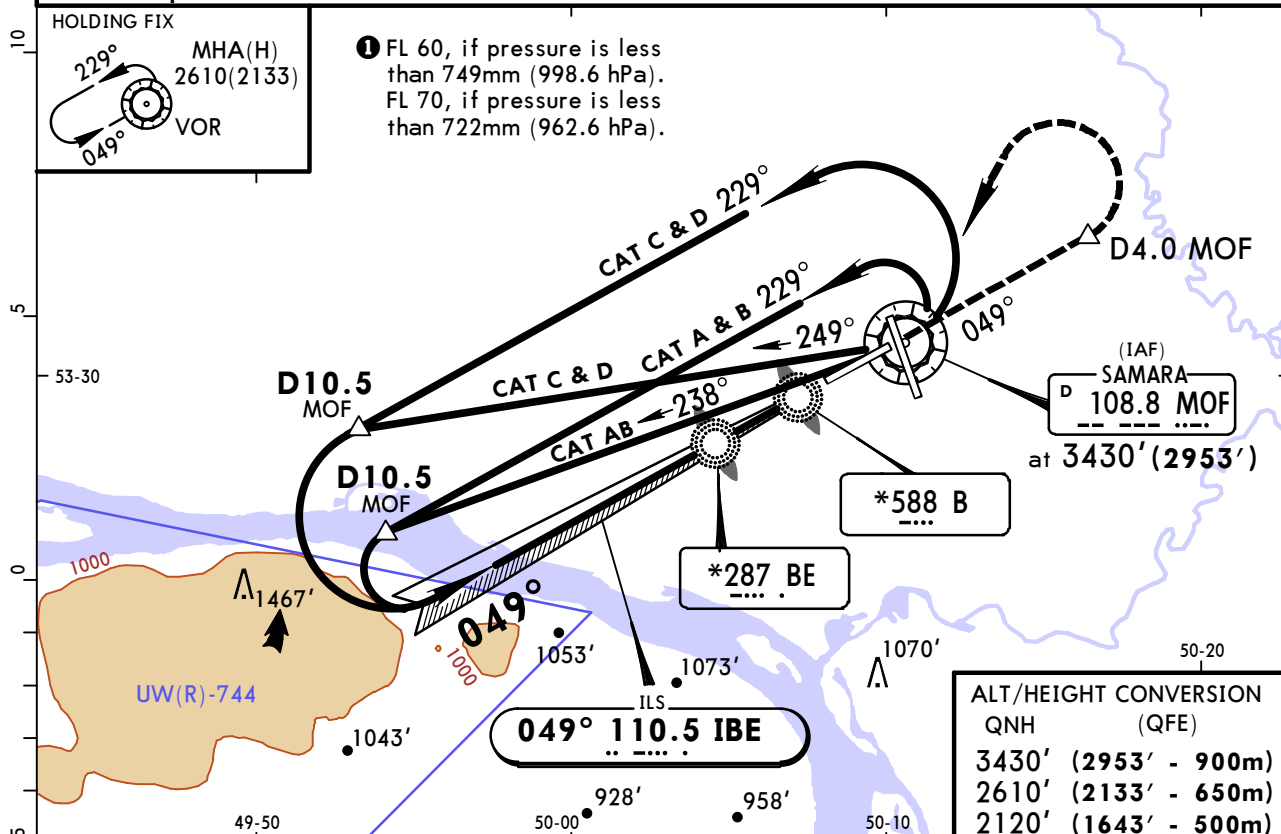
JEPPESEN
6 JUL 18 11-1 Eff 19 Jul

SAMARA, RUSSIA
ILS Z Rwy 05



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KURUMOCH
JEPPESEN
6 JUL 18 **(11-3)** **Eff 19 Jul**
SAMARA, RUSSIA
ILS X Rwy 05

BRIEFING STRIP™	ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
	134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
	LOC IBE 110.5	Final Apch Crs 049°	GS LOM 1298'(821')	ILS DA(H) 677'(200')	Apt Elev 476' Rwy 477'
MISSED APCH: Climb STRAIGHT AHEAD to D4.0 MOF, then turn LEFT to VOR climbing to 2610'(2133') or above, or as directed.					
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 1 Trans alt: 3430' (2953') 1. DME required. 2. Procedure MAX 225 KT.					



PANS OPS	STRAIGHT-IN LANDING RWY 05			CIRCLE-TO-LAND		
	ILS		LOC (GS out)			
	DA(H) 677'(200')					
	FULL	ALS out		Max Kts	MDA(H)	
	A			100	940'(464')	1600m
RVR 720m VIS 800m 1200m NOT AUTHORIZED				135	970'(494')	1600m
				180	1090'(614')	2800m
				205	1190'(714')	3600m

CHANGES: Minimums.

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11 MAY 18 **(11-4)** **Eff 24 May**
SAMARA, RUSSIA
ILS Z Rwy 15

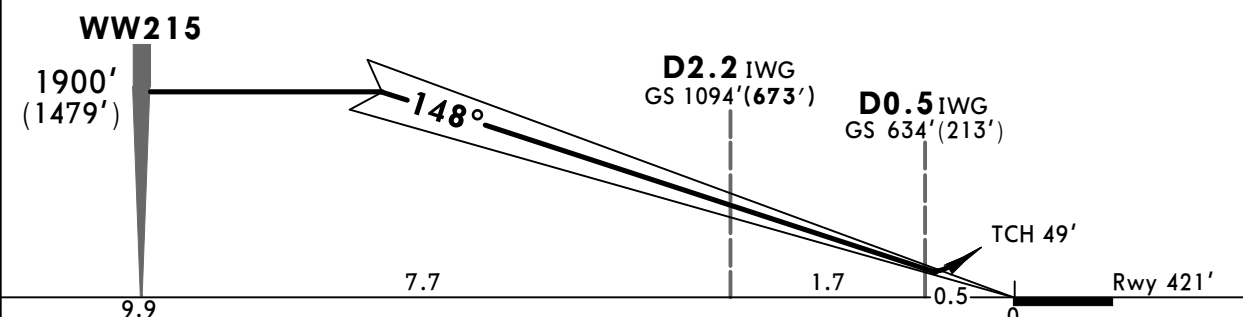
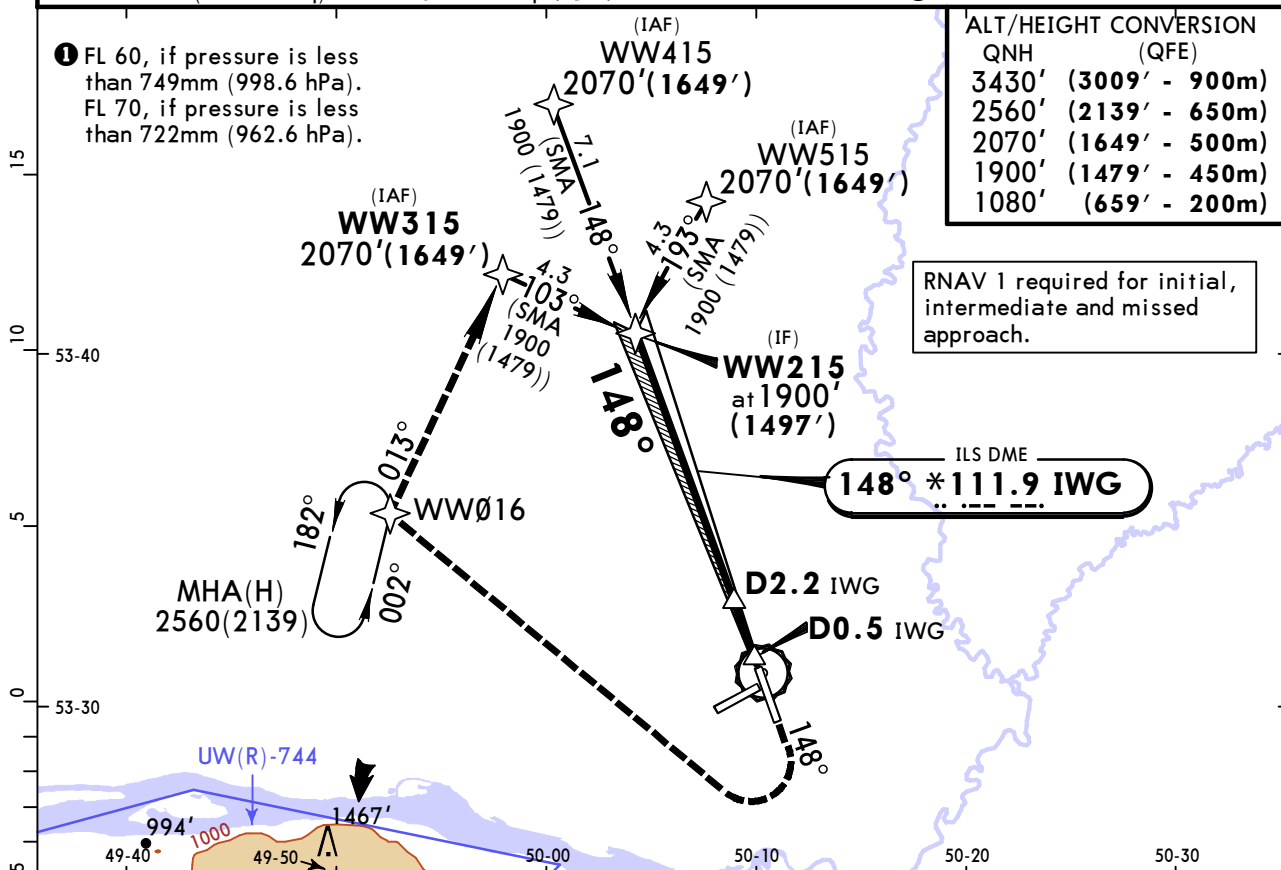
ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
LOC IWG *111.9	Final Apch Crs 148°	GS D2.2 IWG 1094'(673')	ILS DA(H) 621'(200')	Apt Elev 476' Rwy 421'
MISSED APCH: Climb STRAIGHT AHEAD to 1080'(659') or above (MAX 220 KT), then turn RIGHT to WWØ16 climbing to 2560'(2139') or above (MAX 220 KT), then turn RIGHT to WW315, then as directed.				

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3009')

① FL 60, if pressure is less than 749mm (998.6 hPa).
FL 70, if pressure is less than 722mm (962.6 hPa).

ALT/HEIGHT CONVERSION	QNH	(QFE)
3430'	(3009' - 900m)	
2560'	(2139' - 650m)	
2070'	(1649' - 500m)	
1900'	(1479' - 450m)	
1080'	(659' - 200m)	

RNAV 1 required for initial, intermediate and missed approach.



Gnd speed-Kts	70	90	100	120	140	160		HIALS-II	MIM	220 KT	WWØ16
GS	2.70°	334	430	478	573	669	764	PAPI	1080' (659')	MAX	RT

STRAIGHT-IN LANDING RWY 15				CIRCLE-TO-LAND			
ILS			LOC (GS out)				
DA(H) 621'(200')							
FULL	TDZ or CL out	ALS out		Max Kts	MDA(H)		
A				100	940' (464')	1600m	
B	RVR 550m	RVR 720m		135	970' (494')	1600m	
C	VIS 800m	VIS 800m	1200m	180	1090' (614')	2800m	
D				205	1190' (714')	3600m	

CHANGES: Minimums.

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JEPPESSEN
11 MAY 18
Eff 24 May 11-4A

SAMARA, RUSSIA
CAT II ILS Z Rwy 15

ATIS
134.1 (Russian 134.9)

SAMARA Approach
124.6

SAMARA Radar
128.0

SAMARA Tower
118.2

Ground
119.0

LOC
IWG
*111.9

Final
Apch Crs
148°

GS
D2.2 IWG
1094'(673')

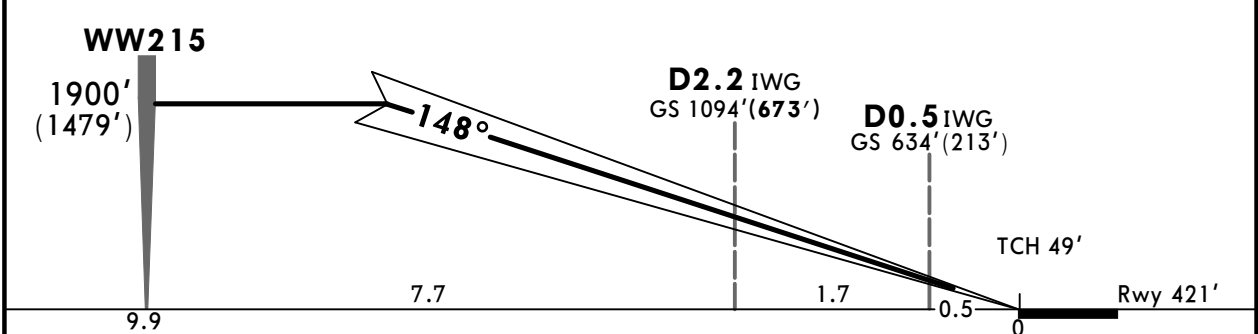
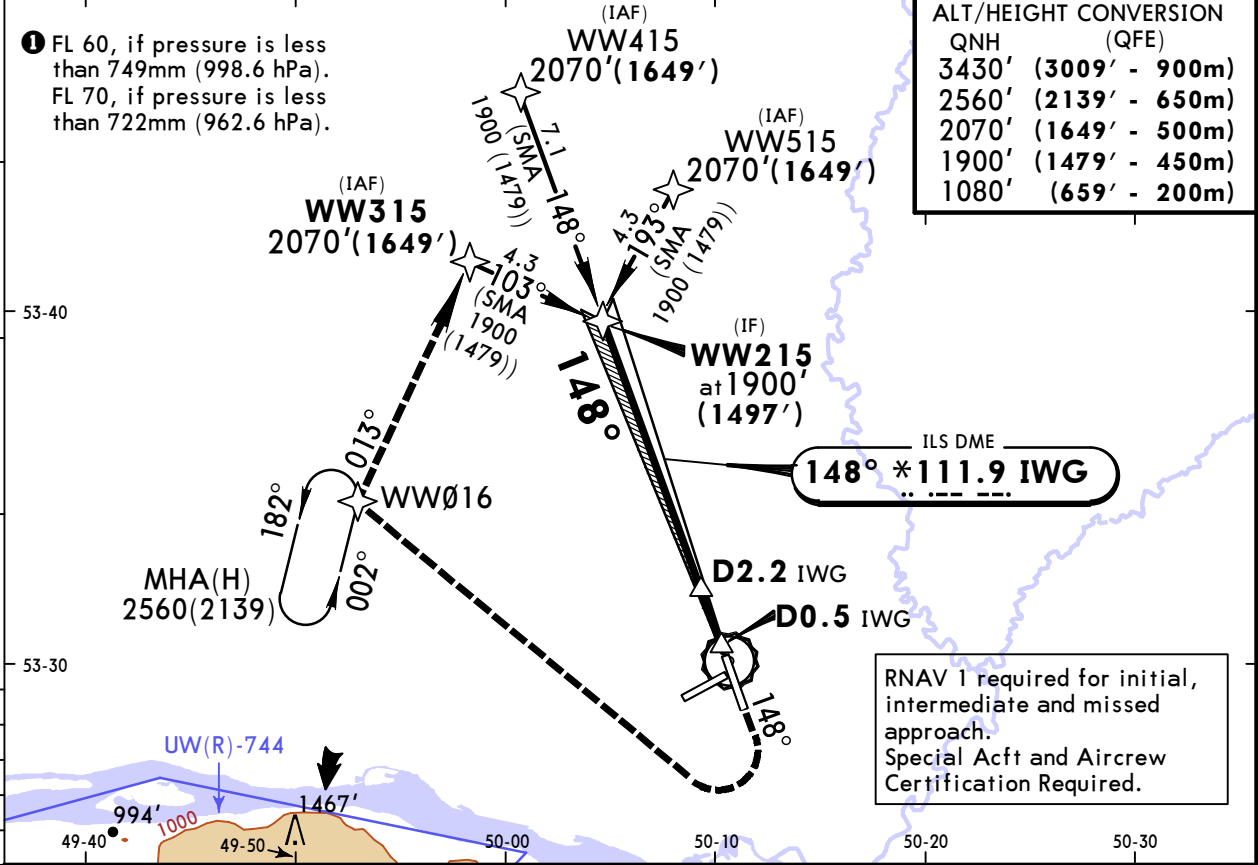
CAT II ILS
RA 118'
DA(H)
521'(100')

Apt Elev 476'
Rwy 421'

MISSED APCH: Climb STRAIGHT AHEAD to 1080'(659') or above (MAX 220 KT), then turn RIGHT to WWØ16 climbing to 2560'(2139') or above (MAX 220 KT), then turn RIGHT to WW315, then as directed.

095°
2800
020°
2300
MSA ARP

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 Trans alt: 3430' (3009')



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	MIM 1080' (659')	220 KT MAX	WWØ16 RT
GS	2.70°	334	430	478	573	669				

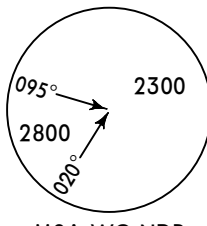
STRAIGHT-IN LANDING RWY 15
CAT II ILS
RA 118'
DA(H) 521'(100')

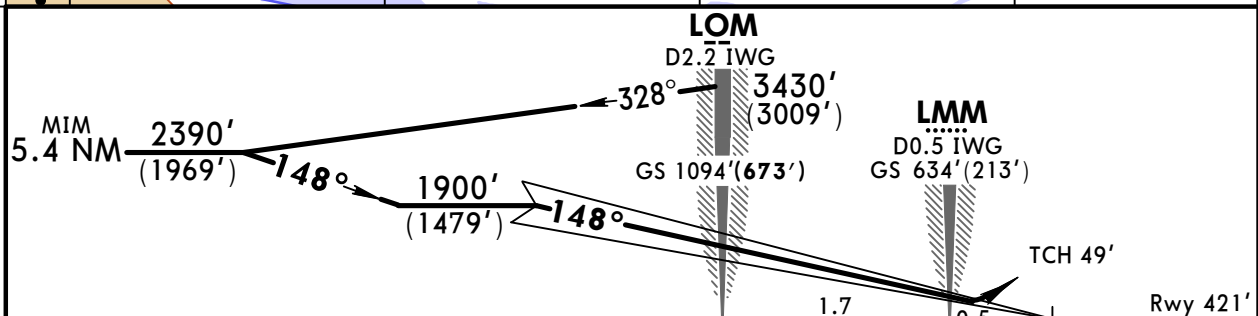
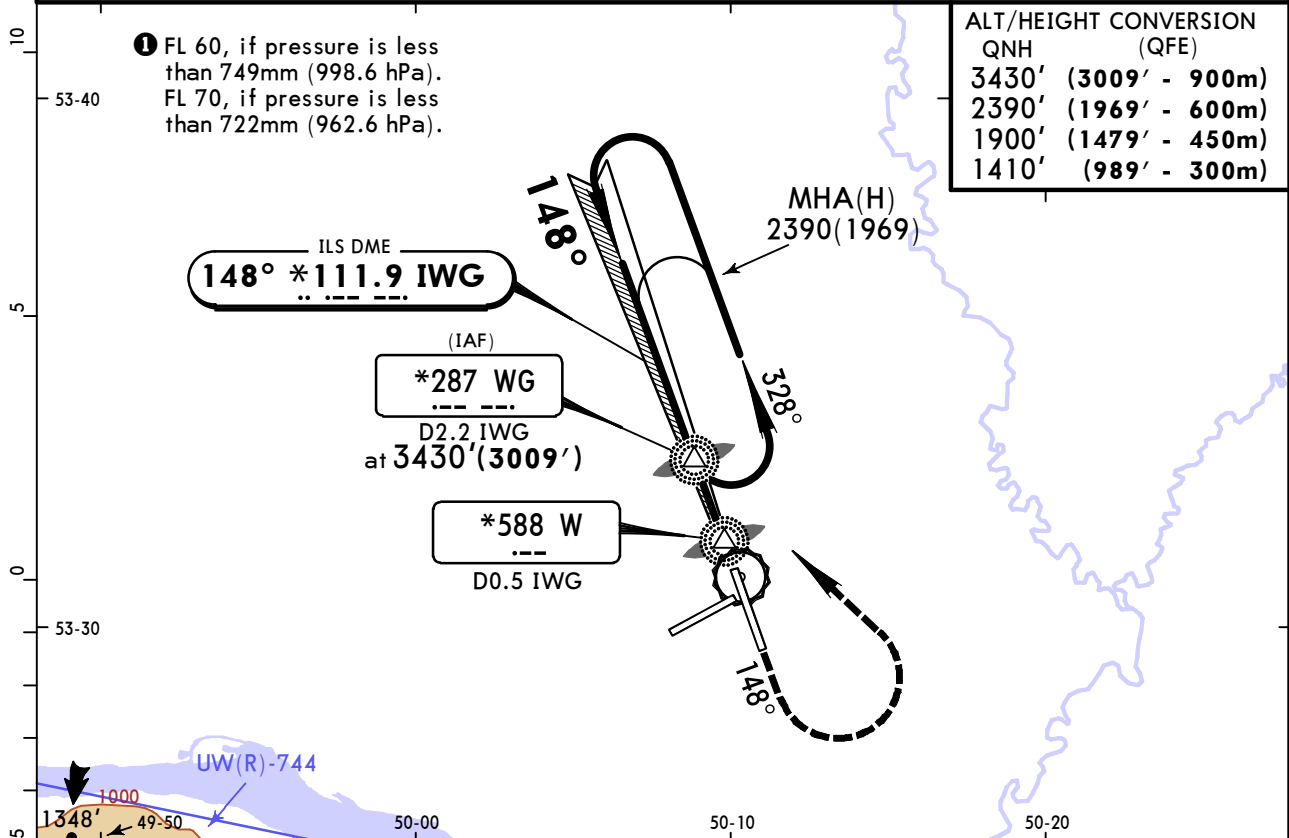
PANS OPS
RVR 300m

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KURUMOCH

JEPPESSEN
11 MAY 18 (11-5) Eff 24 May

SAMARA, RUSSIA
ILS Y Rwy 15

BRIEFING STRIP™	ATIS	SAMARA Approach		SAMARA Radar	SAMARA Tower	Ground
	134.1 (Russian 134.9)	124.6		128.0	118.2	119.0
	LOC IWG *111.9	Final Apch Crs 148°	GS LOM 1094'(673')	ILS DA(H) 621'(200')	Apt Elev 476' Rwy 421'	
MISSED APCH: Climb STRAIGHT AHEAD to 1410'(989') or above, then turn LEFT to WG NDB climbing to 2390'(1969') or above, or as directed.						 MSA WG NDB
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3009')						
Procedure restricted to MAX 215 KT.						



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	MIM 1410' (989')	WG 287 LT	MIM 2390' (1969')
GS	2.70°	334	430	478	573	669				

PANS OPS	STRAIGHT-IN LANDING RWY 15			LOC (GS out)		CIRCLE-TO-LAND	
	ILS						
	DA(H) 621'(200')						
	FULL	TDZ or CL out	ALS out			Max Kts	MDA(H)
	A					100	940' (464') 1600m
B	RVR 550m	RVR 720m	1200m			135	970' (494') 1600m
C	VIS 800m	VIS 800m				180	1090' (614') 2800m
D						205	1190' (714') 3600m
				NOT AUTHORIZED			

CHANGES: Minimums.

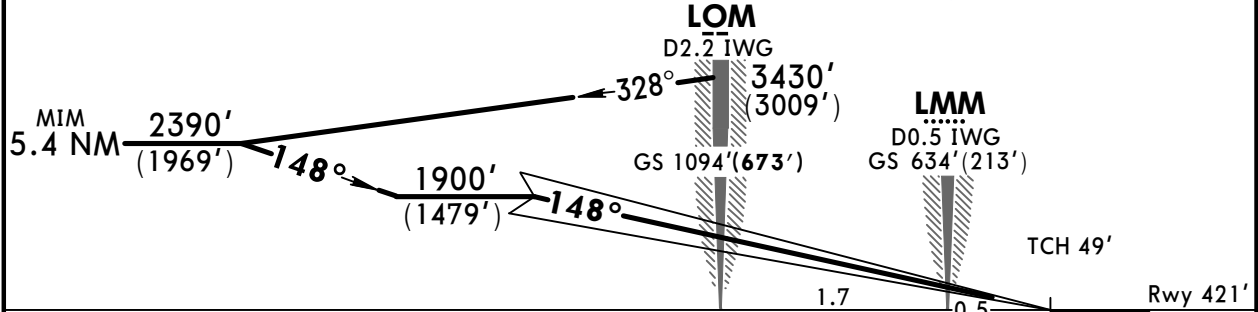
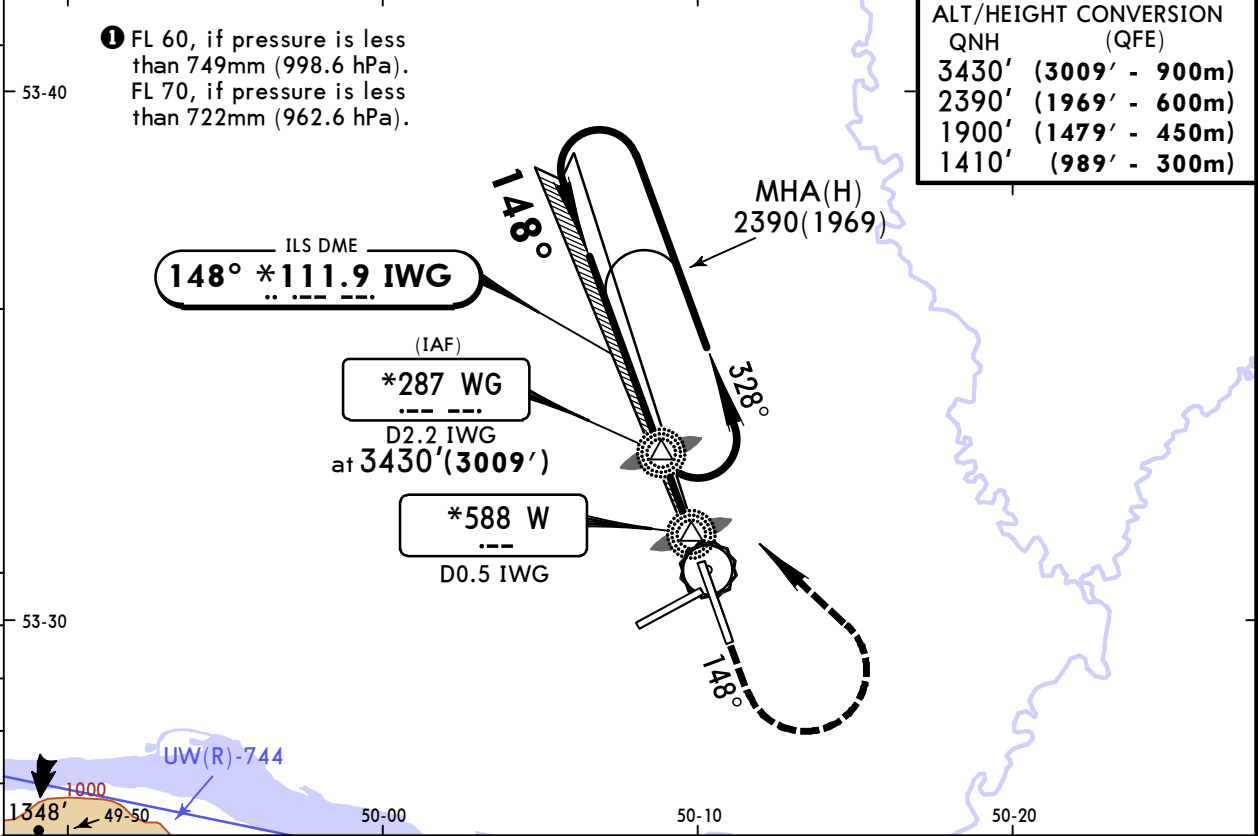
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JEPPESSEN
11 MAY 18
Eff 24 May 11-5A

SAMARA, RUSSIA
CAT II ILS Y Rwy 15

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
LOC IWG *111.9	Final Apch Crs 148°	GS LOM 1094'(673')	CAT II ILS RA 118' DA(H) 521'(100')	Apt Elev 476' Rwy 421'
MISSED APCH: Climb STRAIGHT AHEAD to 1410'(989') or above, then turn LEFT to WG NDB climbing to 2390'(1969') or above, or as directed.				 MSA WG NDB
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 1 Trans alt: 3430' (3009')				
1. Procedure restricted to MAX 215 KT. 2. Special Acft and Aircrew Certification Required.				



Gnd speed-Kts	70	90	100	120	140	160		HIALS-II	MIM	WG	MIM
GS	2.70°	334	430	478	573	669	764	PAPI	1410' (989')	287 LT	2390' (1969')
									↑		↑

STRAIGHT-IN LANDING RWY 15
CAT II ILS
RA 118'
DA(H) 521'(100')

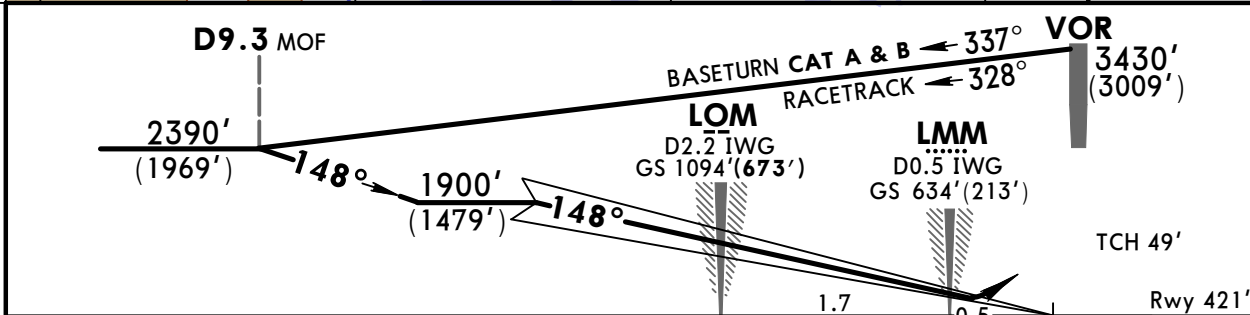
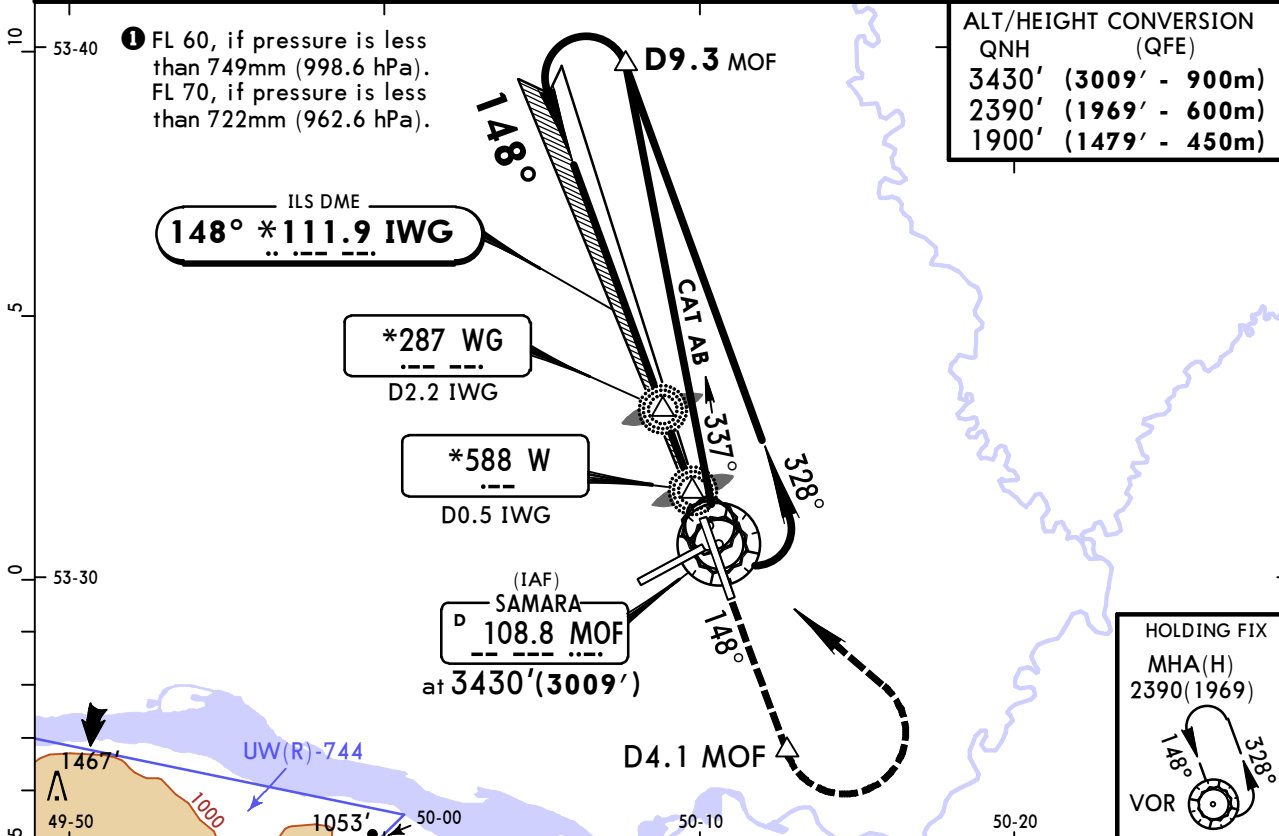
PANS OPS
RVR 300m

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KURUMOCH

JEPPESSEN
11 MAY 18 **11-6** Eff 24 May

SAMARA, RUSSIA
ILS X Rwy 15

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
LOC IWG *111.9	Final Apch Crs 148°	GS LOM 1094'(673')	ILS DA(H) 621'(200')	Apt Elev 476' Rwy 421'
MISSED APCH: Climb STRAIGHT AHEAD to D4.1 MOF, then turn LEFT to VOR climbing to 2390'(1969') or above, or as directed.				MSA MOF VOR
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3009') 1. DME required. 2. Procedure restricted to MAX 215 KT.				



Gnd speed-Kts	70	90	100	120	140	160		HIALS-II	D4.1 MOF	MOF 108.8	MIM 2390' (1969')
GS	2.70°	334	430	478	573	669	764	PAP	↑	LT	↑

STRAIGHT-IN LANDING RWY 15				CIRCLE-TO-LAND			
ILS		LOC (GS out)					
DA(H) 621'(200')							
FULL	TDZ or CL out	ALS out		Max Kts	MDA(H)		
A				100	940' (464')	1600m	
B				135	970' (494')	1600m	
C	RVR 550m VIS 800m	RVR 720m VIS 800m	1200m	180	1090' (614')	2800m	
D				205	1190' (714')	3600m	

CHANGES: Minimums.

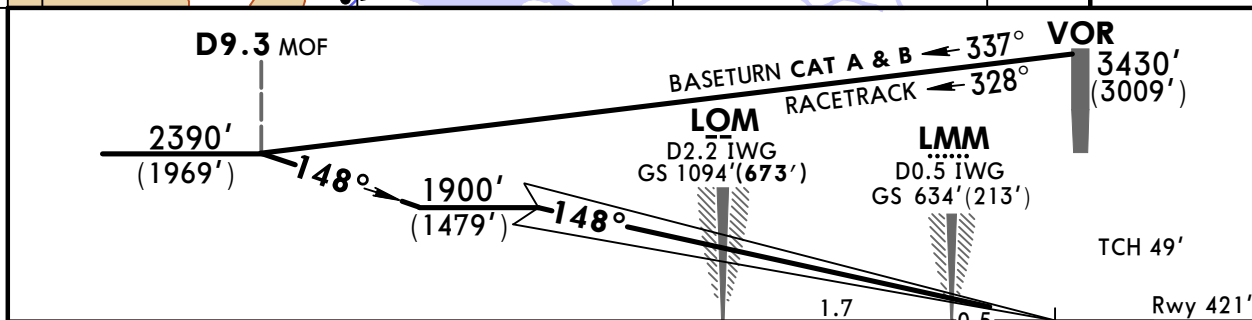
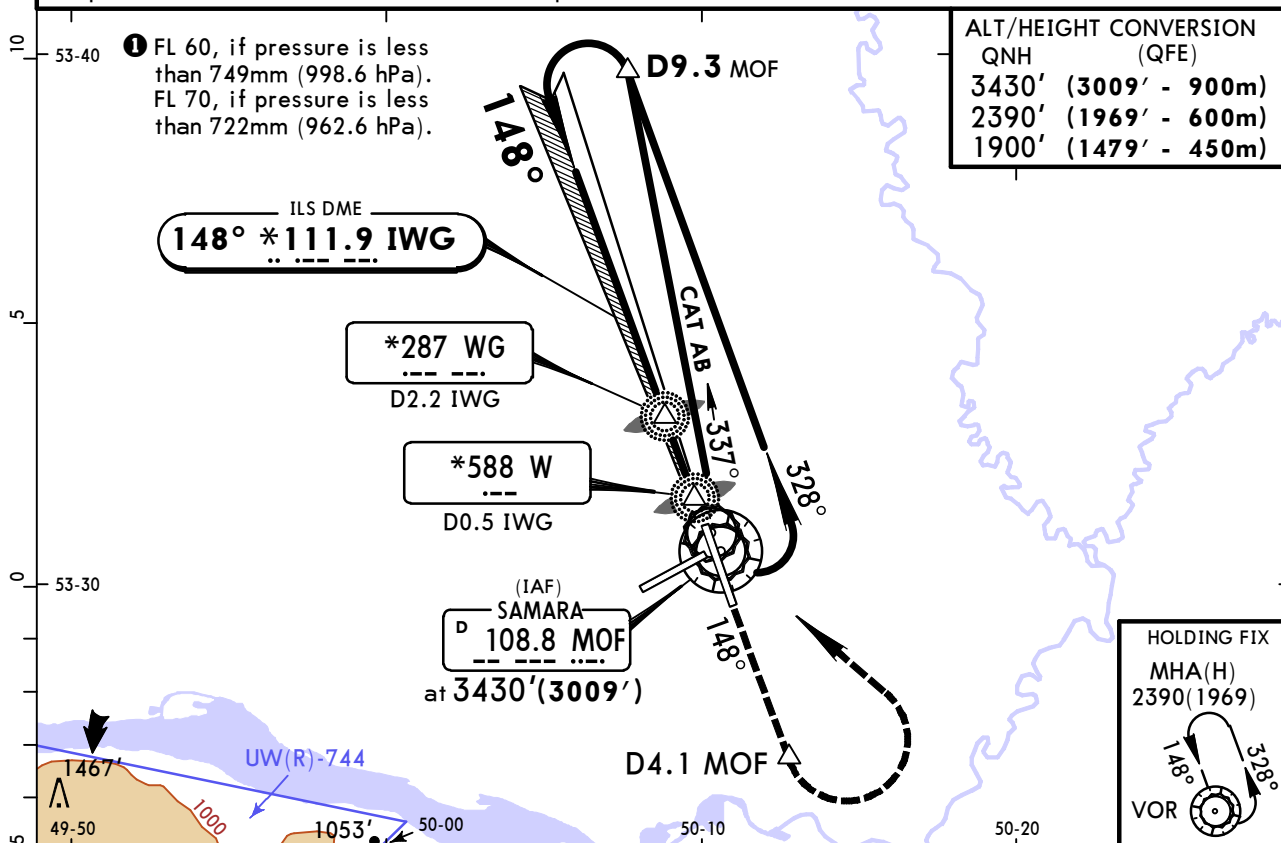
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JEPPESSEN
11 MAY 18
Eff 24 May **(11-6A)**

SAMARA, RUSSIA
CAT II ILS X Rwy 15

BRIEFING STRIP™	ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
	134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
	LOC IWG *111.9	Final Apch Crs 148°	GS LOM 1094'(673')	CAT II ILS RA 118' DA(H) 521'(100')	Apt Elev 476' Rwy 421'
MISSED APCH: Climb STRAIGHT AHEAD to D4.1 MOF, then turn LEFT to VOR climbing to 2390'(1969') or above, or as directed.					
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3009') 1. DME required. 2. Procedure restricted to MAX 215 KT. 3. Special Acft and Aircrew Certification Required.					



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	D4.1 MOF ↑	MOF 108.8 ← LT	MIM 2390' (1969') ↑
GS	2.70°	334	430	478	573	669				

STRAIGHT-IN LANDING RWY 15
CAT II ILS

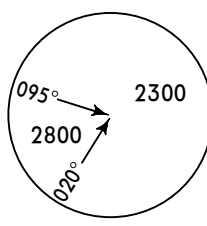
RA 118'
DA(H) 521'(100')

RVR 300m

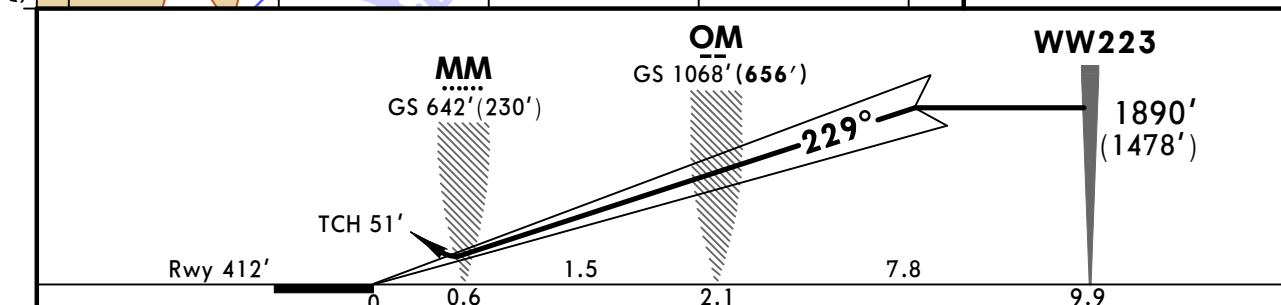
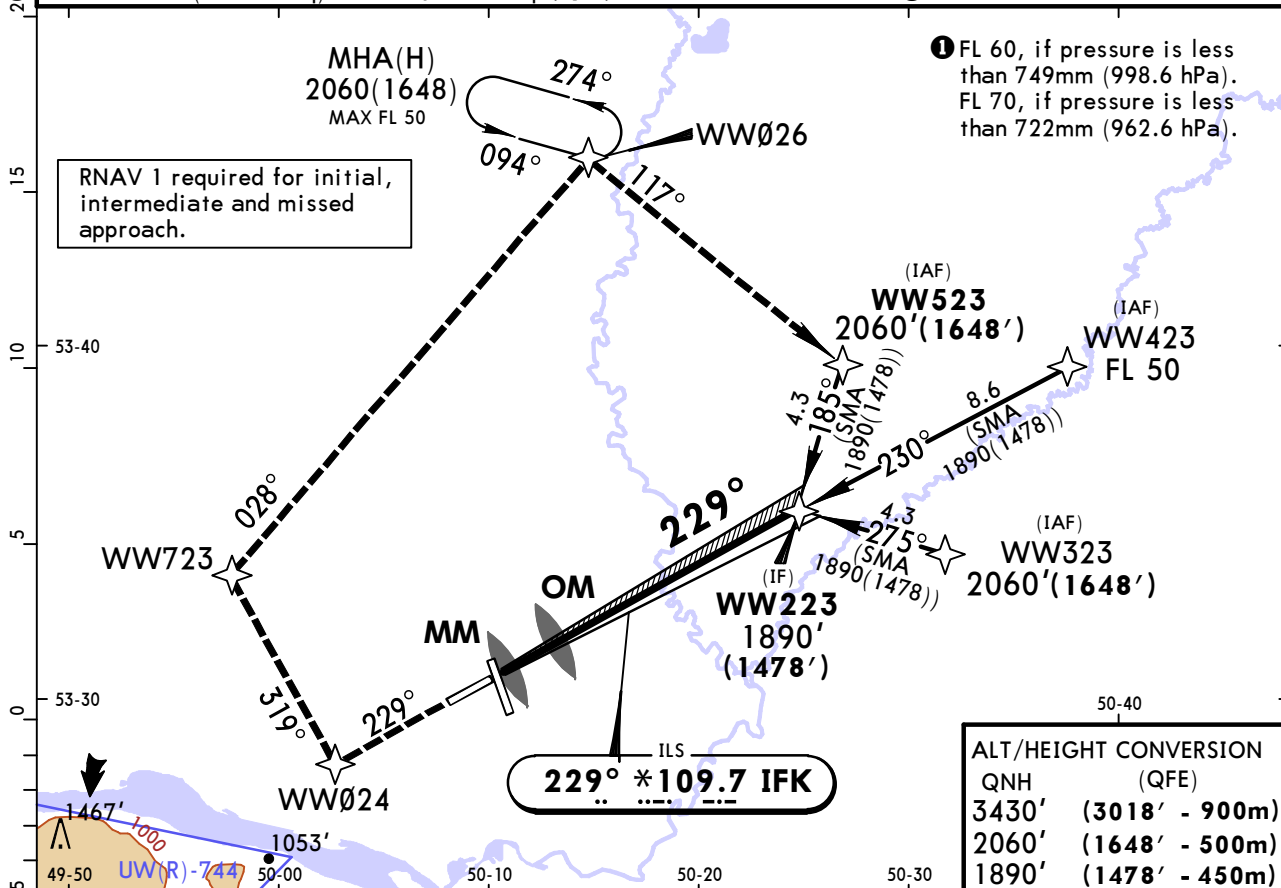
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JEPPESSEN
6 JUL 18 **(11-7)** **Eff 19 Jul**

SAMARA, RUSSIA
ILS Z Rwy 23

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
LOC IFK *109.7	Final Apch Crs 229°	GS OM 1068'(656')	ILS DA(H) 612'(200')	Apt Elev 476' Rwy 412'
MISSED APCH: Climb STRAIGHT AHEAD to WWØ24 (MAX 220 KT), turn RIGHT to WW723, proceed to WWØ26 climbing to 2060'(1648') or above (MAX 220 KT), then proceed to WW523, then as directed.				 MSA ARP

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3018')



Gnd speed-Kts	70	90	100	120	140	160		HIAS	WWØ24	220 KT
GS	2.70°	334	430	478	573	669	764	PAPI	↑	MAX

STRAIGHT-IN LANDING RWY 23			LOC (GS out)		CIRCLE-TO-LAND	
ILS						
DA(H) 612'(200')						
FULL		ALS out			Max Kts	MDA(H)
					100	940'(464') 1600m
					135	970'(494') 1600m
					180	1090'(614') 2800m
					205	1190'(714') 3600m
RVR 720m VIS 800m		1200m	NOT AUTHORIZED			

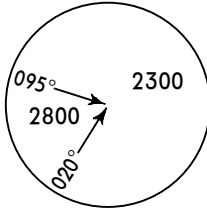
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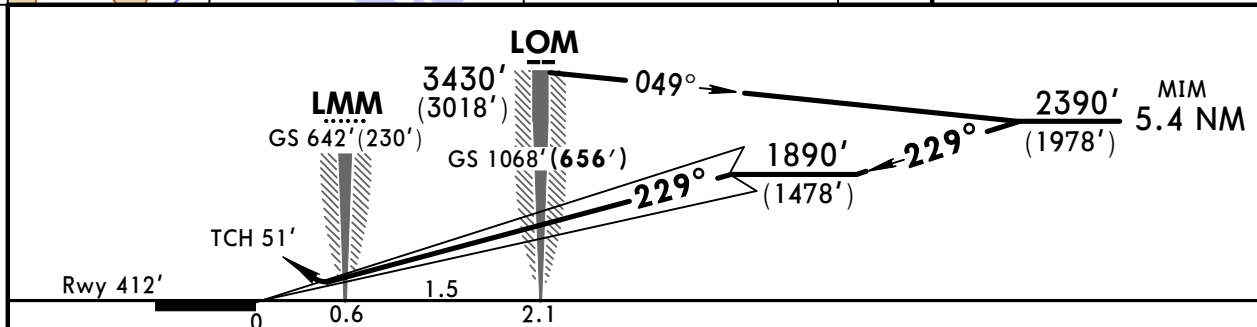
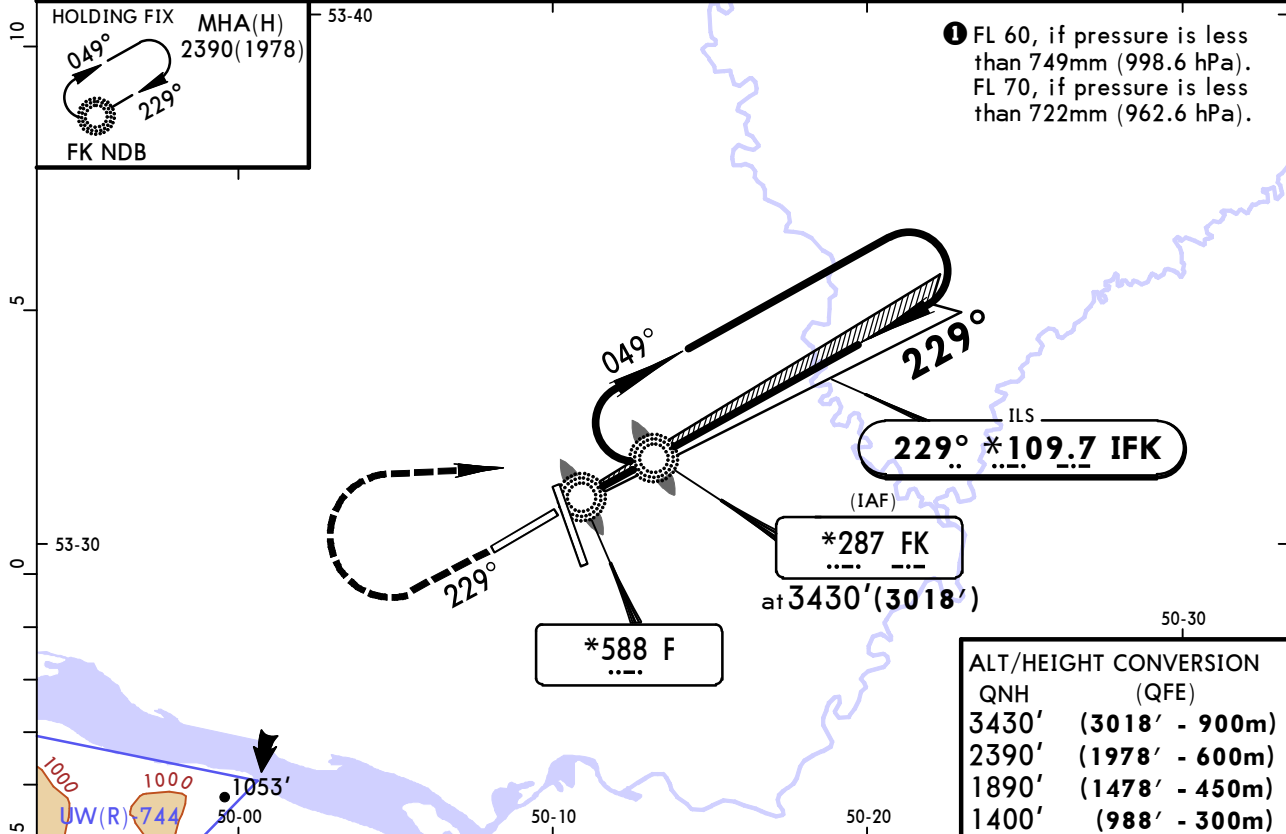
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JEPPESSEN
6 JUL 18 **11-8** **Eff 19 Jul**

SAMARA, RUSSIA
ILS Y Rwy 23

BRIEFING STRIP™	ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
	134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
	LOC IFK *109.7	Final Apch Crs 229°	GS LOM 1068'(656')	ILS DA(H) 612'(200')	Apt Elev 476' Rwy 412'
MISSED APCH: Climb STRAIGHT AHEAD to 1400'(988') or above, turn RIGHT to FK NDB climbing to 2390'(1978') or above, or as directed.					 MSA FK NDB
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3018')					
Procedure restricted to MAX 215 KT.					



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	MIM 1400' (988')	FK 287 RT
GS	2.70°	334	430	478	573	669			

STRAIGHT-IN LANDING RWY 23			CIRCLE-TO-LAND	
ILS		LOC (GS out)		
DA(H) 612'(200')				
FULL		ALS out	Max Kts	MDA(H)
			100	940'(464') 1600m
			135	970'(494') 1600m
			180	1090'(614') 2800m
			205	1190'(714') 3600m
A				
B				
C				
D				

PANS OPS

CHANGES: Minimums.

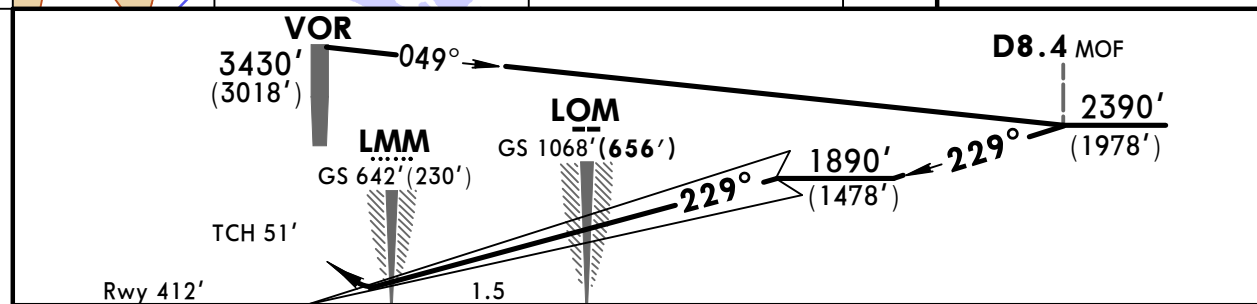
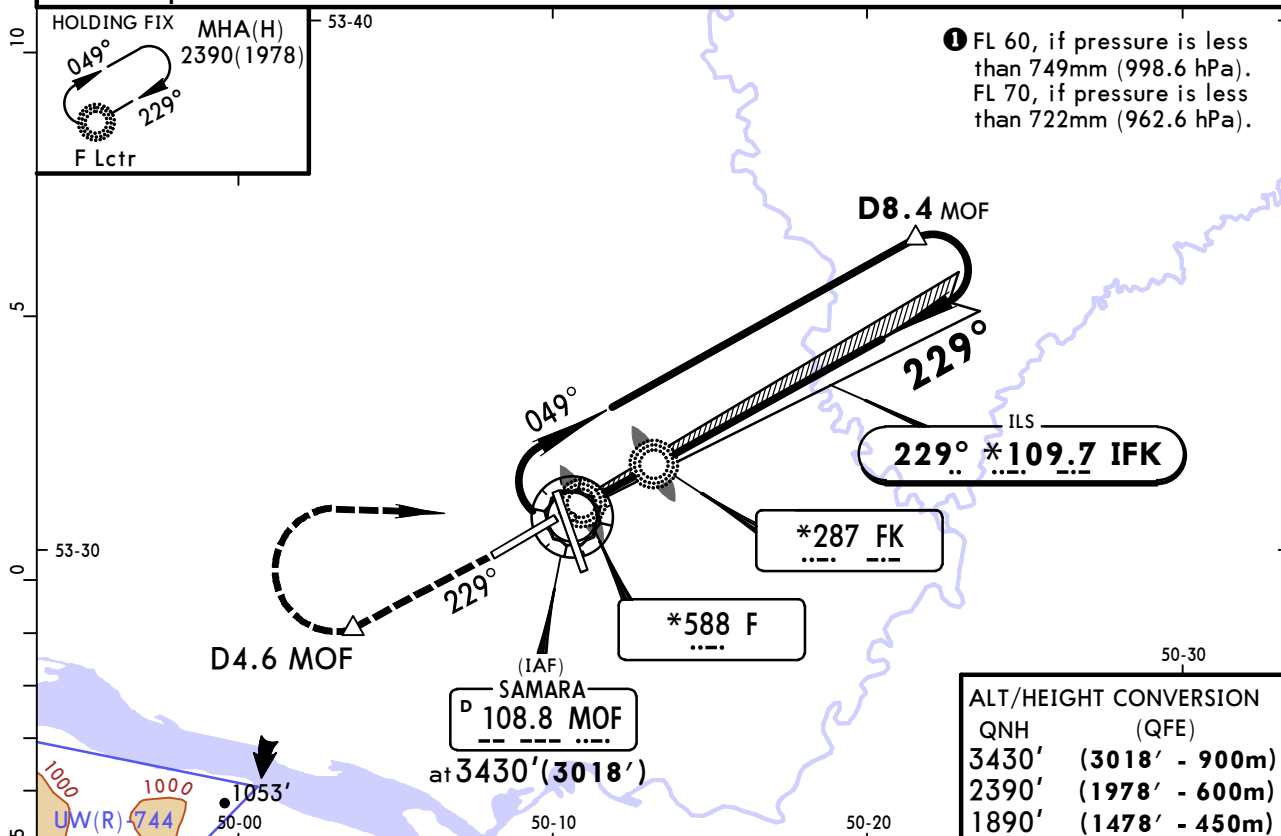
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JEPPESSEN
6 JUL 18 **(11-9)** **Eff 19 Jul**

SAMARA, RUSSIA
ILS X Rwy 23

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
LOC IFK *109.7	Final Apch Crs 229°	GS LOM 1068'(656')	ILS DA(H) 612'(200')	Appt Elev 476' Rwy 412'
MISSED APCH: Climb STRAIGHT AHEAD to D4.6 MOF, then turn RIGHT to VOR climbing to 2390'(1978') or above, or as directed.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3018') 1. DME required. 2. Procedure restricted to MAX 200 KT.				



Gnd speed-Kts	70	90	100	120	140	160		HIALS	D4.6 MOF	MM 2390' (1978')	MOF 108.8
GS	2.70°	334	430	478	573	669	764	PAPI	↑	RT	

STRAIGHT-IN LANDING RWY 23				CIRCLE-TO-LAND			
ILS		LOC (GS out)					
DA(H) 612'(200')				Max Kts		MDA(H)	
FULL	ALS out			100		940'(464')	1600m
A				135		970'(494')	1600m
B	RVR 720m VIS 800m	1200m		180		1090'(614')	2800m
C				205		1190'(714')	3600m
D							

CHANGES: Minimums.

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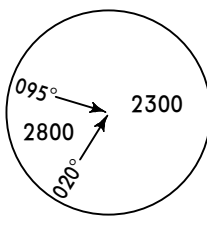
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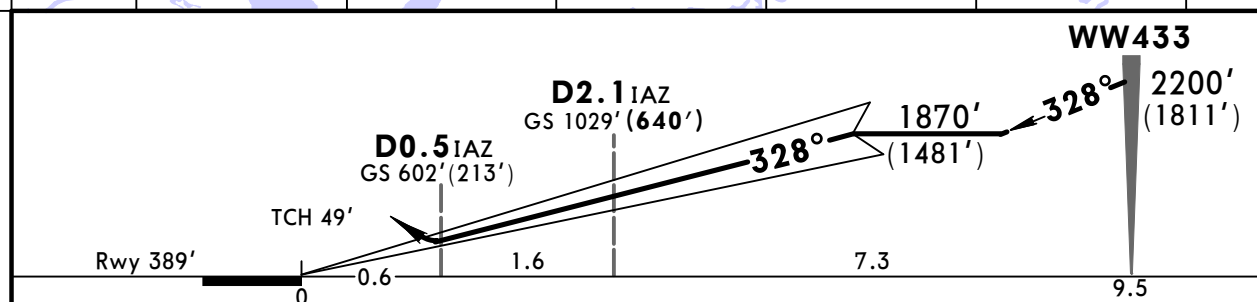
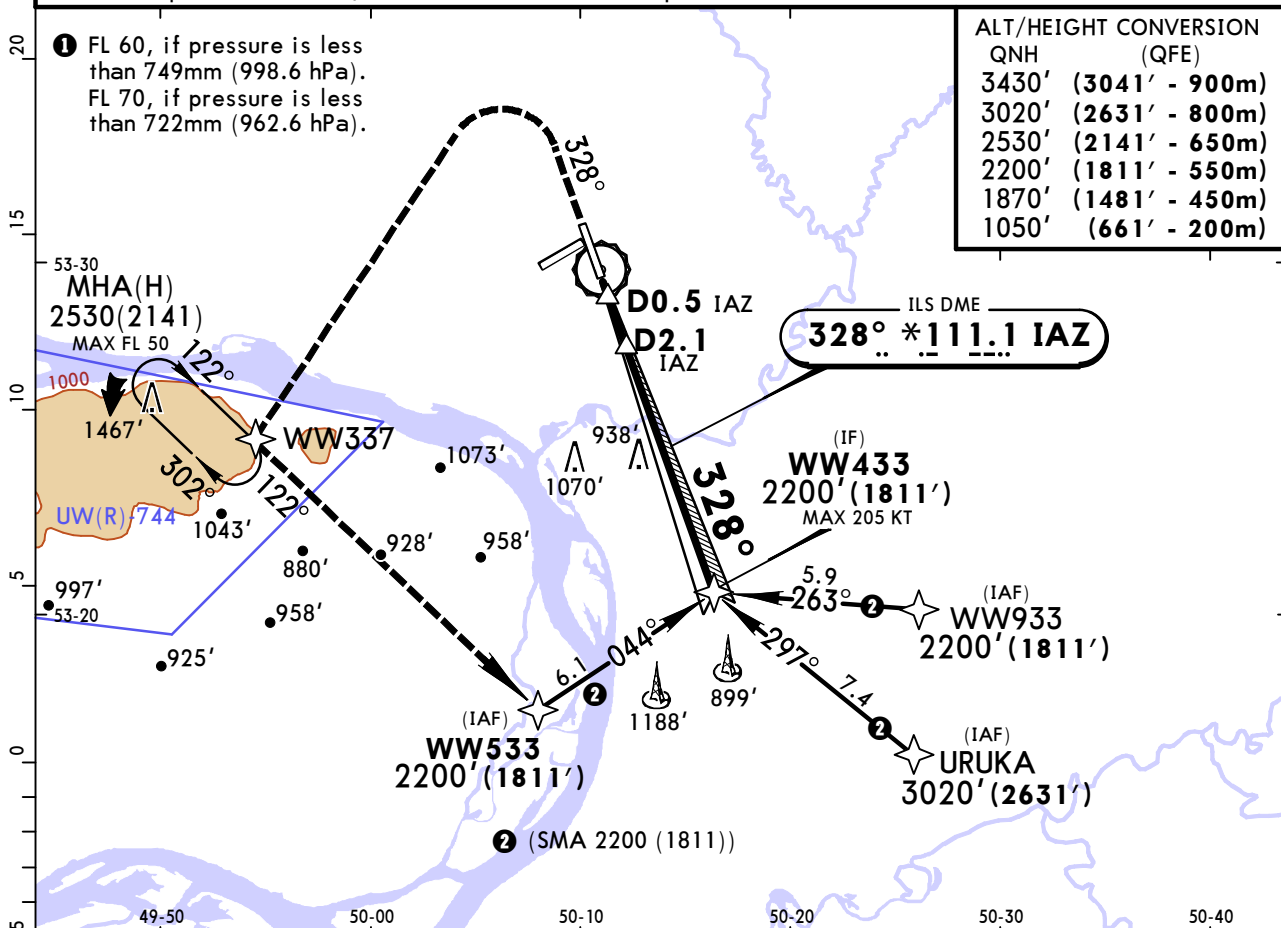
6 JUL 18

11-10

Eff 19 Jul

SAMARA, RUSSIA
ILS Z Rwy 33

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
ILS IAZ *111.1	Final Apch Crs 328°	GS D2.1 IAZ 1029' (640')	ILS DA(H) 589' (200')	Apt Elev 476' Rwy 389'
MISSED APCH: Climb STRAIGHT AHEAD to 1050' (661') or above (MAX 220 KT), then turn LEFT to WW337 climbing to 2530' (2141') or above, then proceed to WW533, then as directed.				 MSA ARP
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3041') RNAV 1 required for initial, intermediate and missed apch.				



Gnd speed-Kts	70	90	100	120	140	160	HIALS	MIM 1050' (661')	220 KT MAX	MIM 2530' (2141')	WW337
GS	2.70°	334	430	478	573	669	PAPI			LT	

STRAIGHT-IN LANDING RWY 33				LOC (GS out)		CIRCLE-TO-LAND	
ILS							
DA(H) 589' (200')							
FULL		ALS out					
A						Max Kts	MDA(H)
B						100	940' (464)' 1600m
C						135	970' (494)' 1600m
D						180	1090' (614)' 2800m
						205	1190' (714)' 3600m

CHANGES: Minimums.

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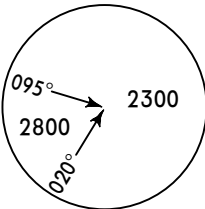
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6 JUL 18 **11-11** **Eff 19 Jul**

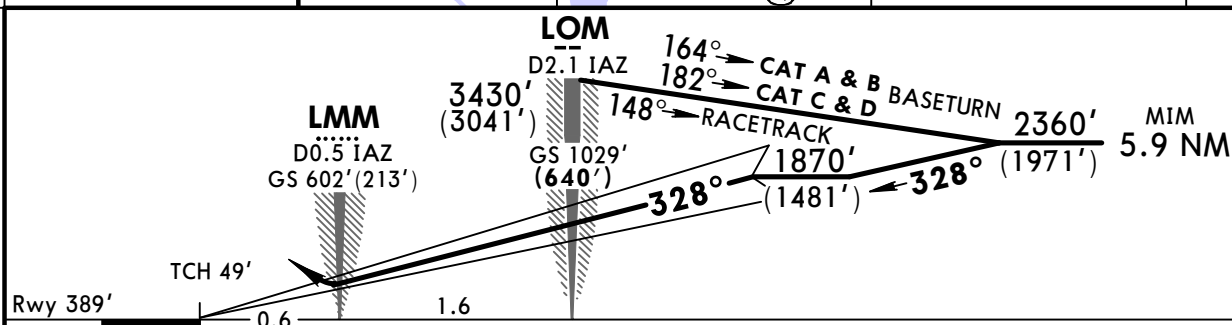
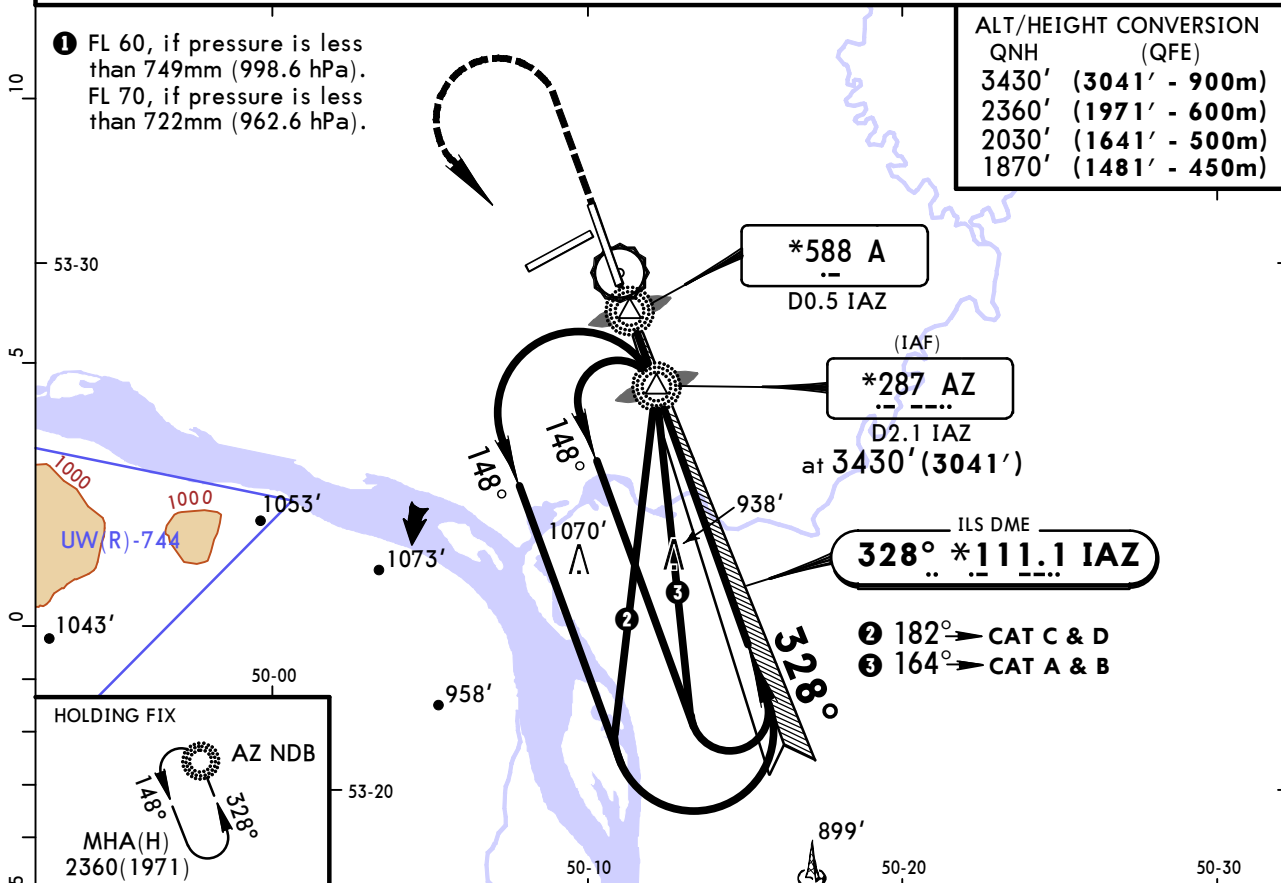
SAMARA, RUSSIA
ILS Y Rwy 33

™

TM

BRIEFING STRIP

ATIS		SAMARA Approach		SAMARA Radar		SAMARA Tower		Ground			
134.1 (Russian 134.9)		124.6		128.0		118.2		119.0			
LOC IAZ *111.1		Final Apch Crs 328°		GS LOM 1029' (640')		ILS DA(H) 589' (200')		Apt Elev 476' Rwy 389'			
MISSED APCH: Climb STRAIGHT AHEAD to 2030' (1641') or above then turn LEFT to AZ NDB climbing to 2360' (1971') or above, or as directed.											
Alt Set: MM (hPa on req) QNH on req (QFE)								Trans level: FL 50 ①		Trans alt: 3430' (3041')	
Procedure restricted to MAX 225 KT.											



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	MIM 2030' (1641')	MIM 2360' (1971')	AZ 287
GS	2.70°	334	430	478	573	669		↑	LT	

		STRAIGHT-IN LANDING RWY 33					
		ILS		LOC (GS out)		CIRCLE-TO-LAND	
		DA(H) 589'(200')					
		FULL		ALS out		Max Kts	MDA(H)
PANS OPS	A	RVR 720m VIS 800m		1200m		100	940'(464)' 1600m
	B <td>135</td> <td>970'(494)' 1600m</td>					135	970'(494)' 1600m
	C <td>180</td> <td>1090'(614)' 2800m</td>					180	1090'(614)' 2800m
	D <td>205</td> <td>1190'(714)' 3600m</td>					205	1190'(714)' 3600m
						NOT AUTHORIZED	

CHANGES: Minimums.

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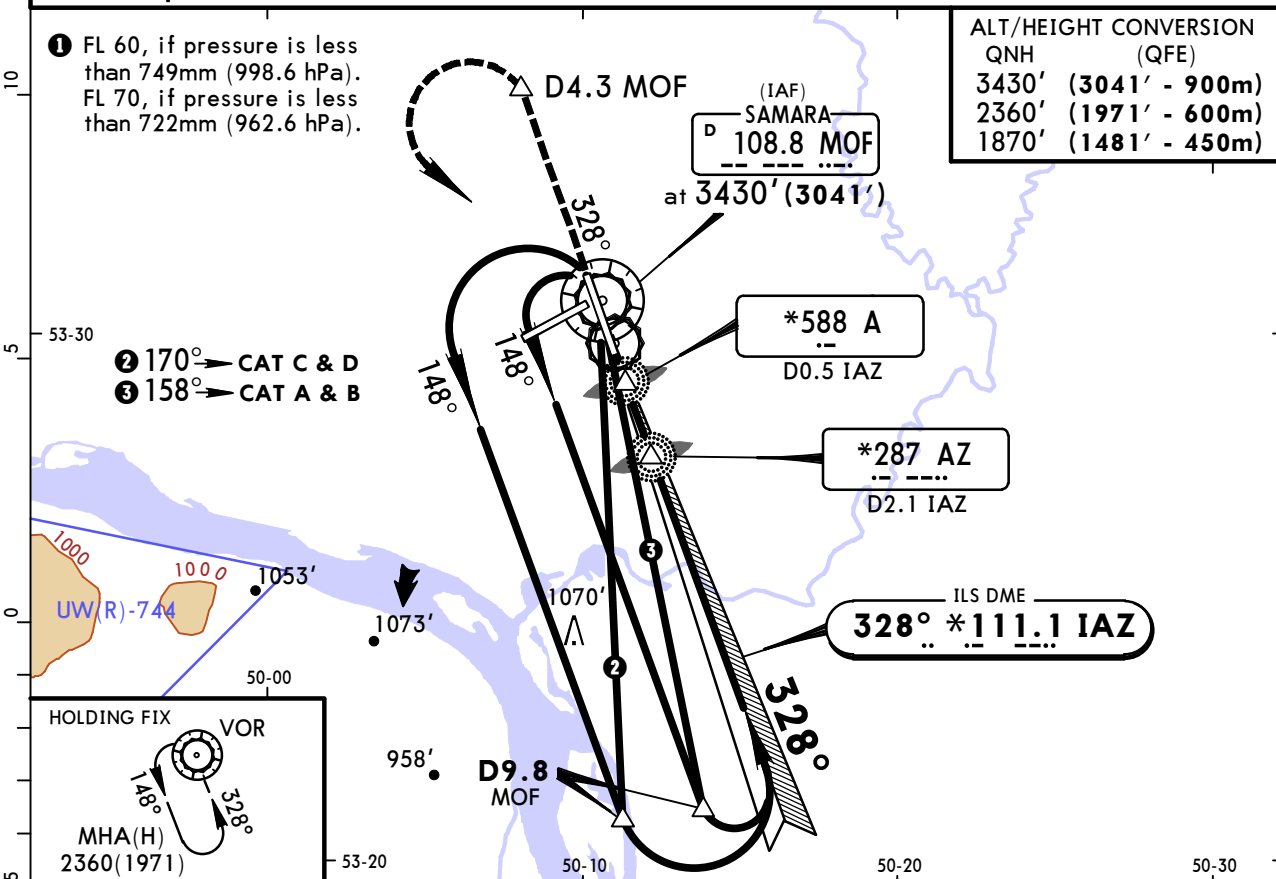
6 JUL 18

11-12

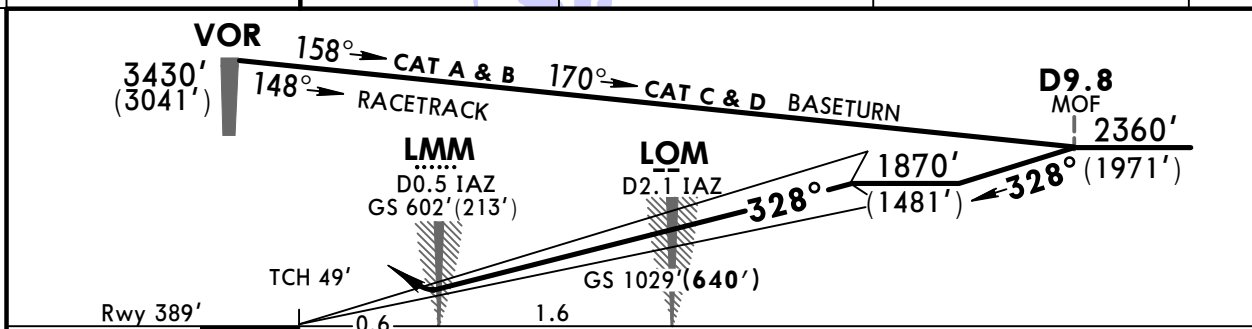
Eff 19 Jul

SAMARA, RUSSIA
ILS X Rwy 33

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
LOC IAZ *111.1	Final Apch Crs 328°	GS LOM 1029' (640')	ILS DA(H) 589' (200')	Apt Elev 476' Rwy 389'
MISSED APCH: Climb STRAIGHT AHEAD to D4.3 MOF, then turn LEFT to VOR climbing to 2360' (1971') or above, or as directed.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3041') 1. DME required. 2. Procedure restricted to 220 KT.				



ALT/HEIGHT CONVERSION	QNH	(QFE)
3430'	(3041' - 900m)	
2360'	(1971' - 600m)	
1870'	(1481' - 450m)	



Gnd speed-Kts	70	90	100	120	140	160	HIALS	D4.3 MOF	MOF 108.8	MIM 2360' (1971')
GS	2.70°	334	430	478	573	669	PAPI	↑	LT	↑

STRAIGHT-IN LANDING RWY 33		LOC (GS out)	CIRCLE-TO-LAND		
ILS			Max Kts	MDA(H)	
DA(H) 589'(200')					
FULL		ALS out			
A	RVR 720m VIS 800m	1200m	NOT AUTHORIZED	100	940'(464)' 1600m
B				135	970'(494)' 1600m
C				180	1090'(614)' 2800m
D				205	1190'(714)' 3600m

CHANGES: Minimums.

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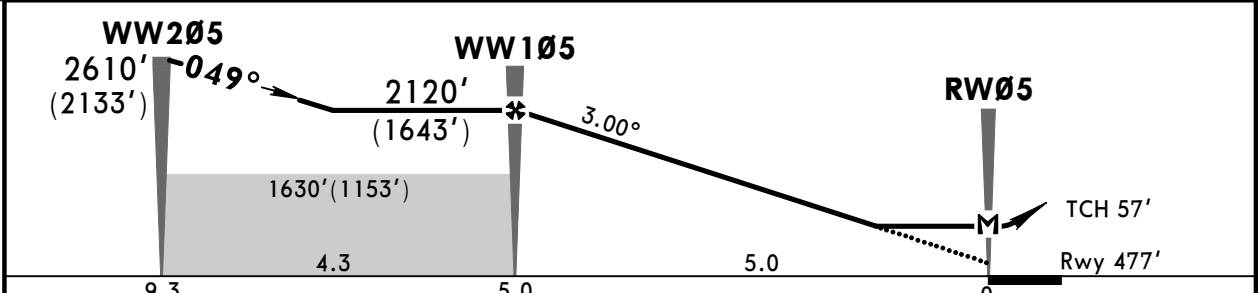
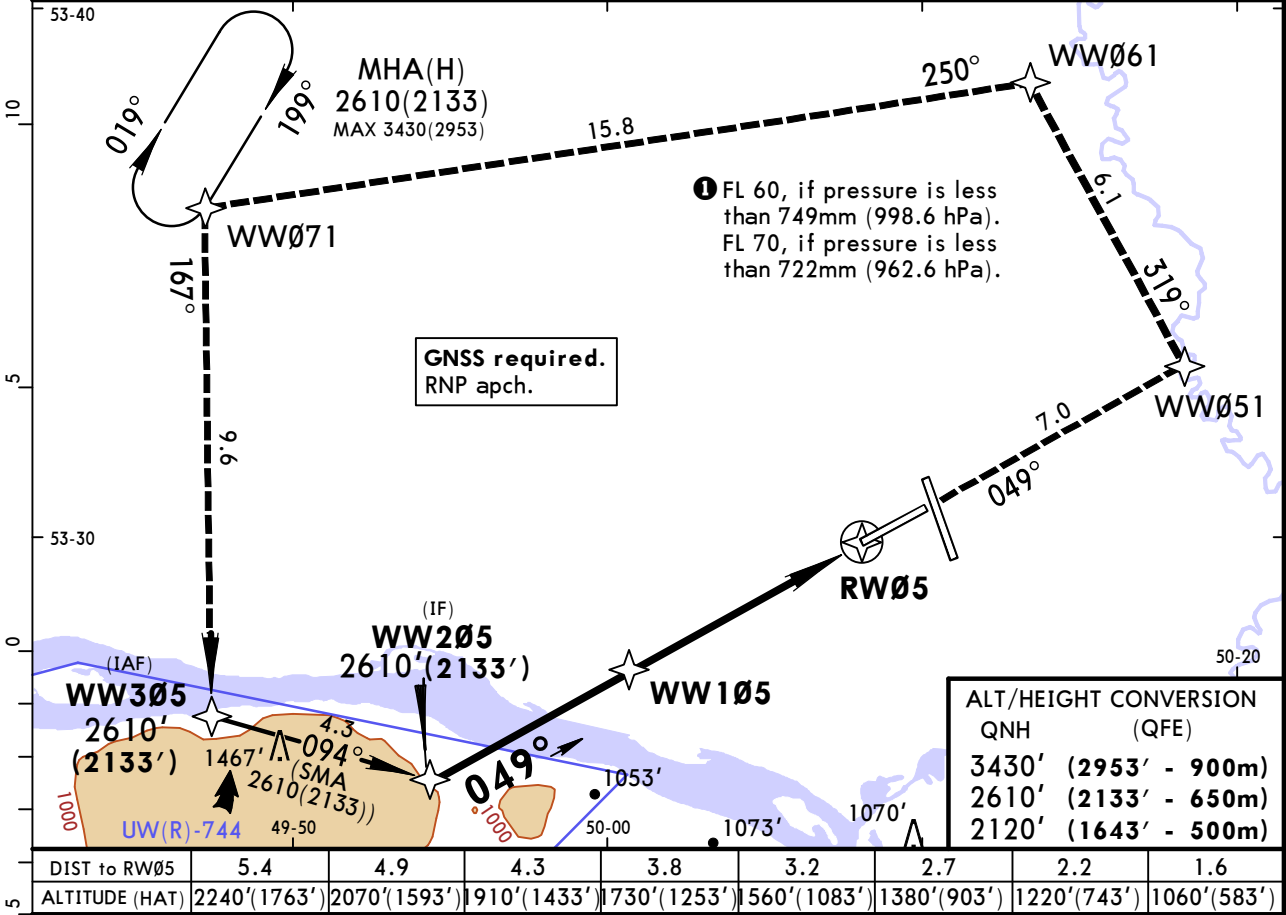
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1 DEC 17 12-1

Eff 7 Dec

SAMARA, RUSSIA
RNAV (GNSS) Rwy 05

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
RNAV	Final Apch Crs 049°	Procedure Alt WW105 2120'(1643')	MDA(H) 910'(433')	Apt Elev 476' Rwy 477'
MISSED APCH: Climb STRAIGHT AHEAD to WW051 (MAX 210 KT), then turn LEFT to WW061, proceed to WW071 climbing to 2610'(2133') or above (MAX 220 KT), then proceed to WW305, then according to chart or as directed.				MSA ARP
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 1 Trans alt: 3430' (2953')				



Gnd speed-Kts	70	90	100	120	140	160	HIALS	
Descent Angle	3.00°	372	478	531	637	743	PAPI	WW051
MAP at RW05								MAX 210 KT

STRAIGHT-IN LANDING RWY 05				CIRCLE-TO-LAND			
RNAV							
MDA(H) 910'(433')							
		ALS out		Max Kts	MDA(H)		
A	RVR 720m VIS 800m	RVR 1500m VIS 1600m		100	940'(464')	1600m	
B				135	970'(494')	1600m	
C	1200m	RVR 1800m VIS 2000m		180	1090'(614')	2800m	
D	RVR 1500m VIS 1600m	2400m		205	1190'(714')	3600m	

UWWW/KUF
KURUMOCH

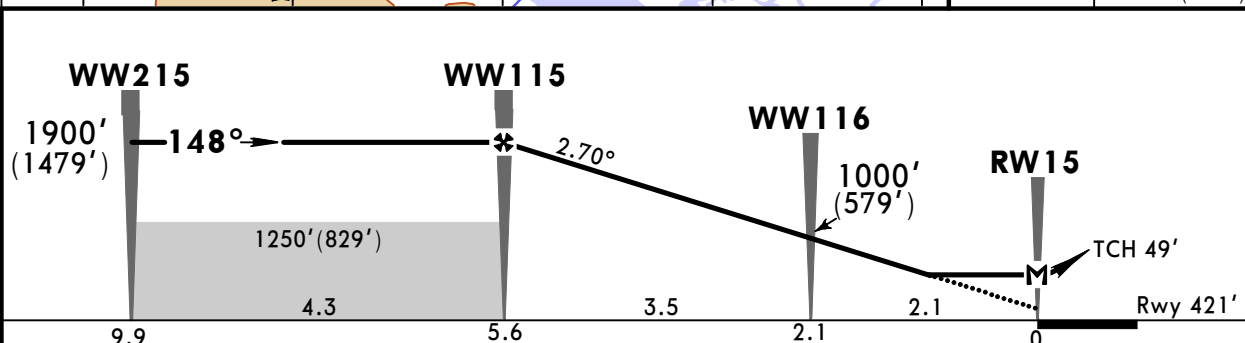
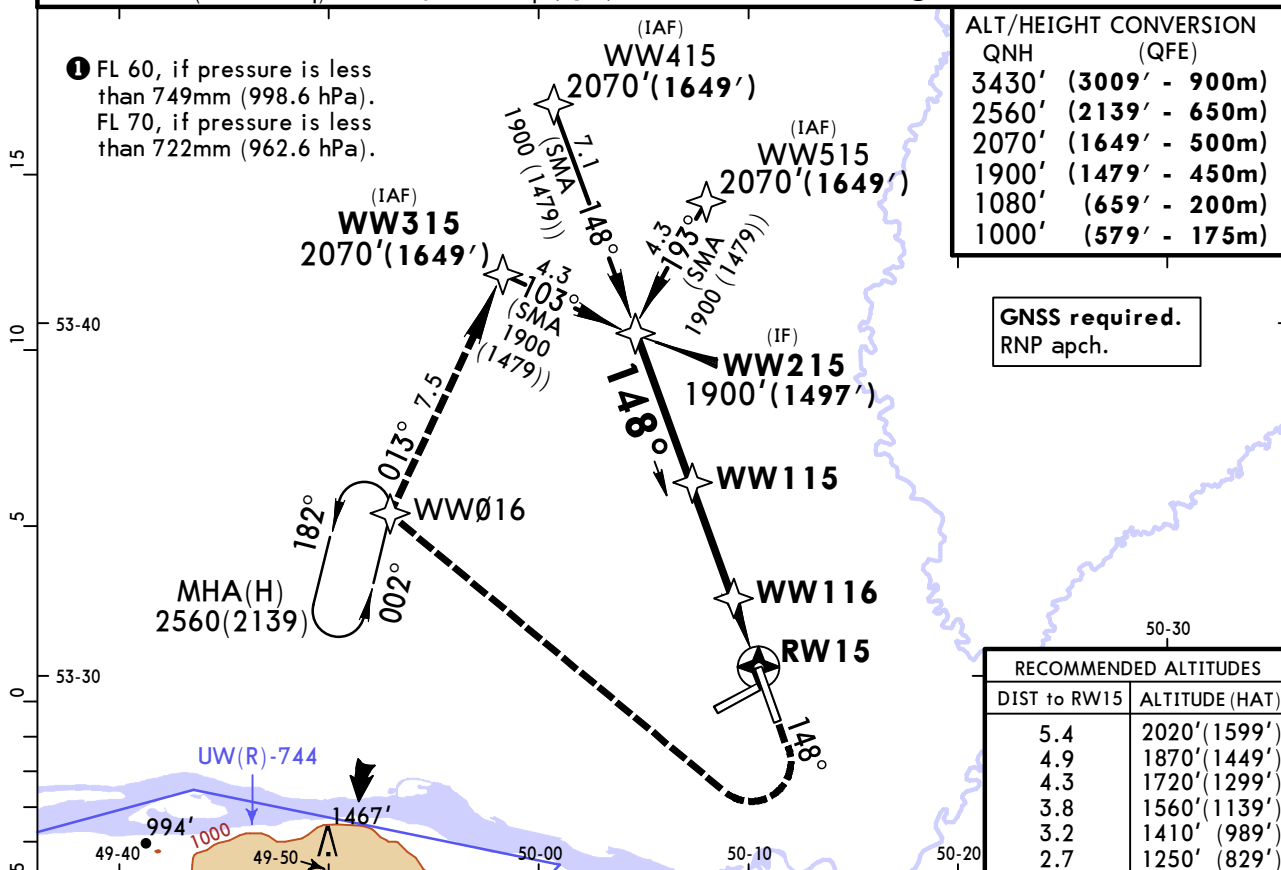
JEPPESSEN

1 DEC 17 **(12-2)** Eff 7 Dec

SAMARA, RUSSIA
RNAV (GNSS) Rwy 15

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
RNAV	Final Apch Crs 148°	Procedure Alt WW115 1900' (1479')	MDA(H) 790' (369')	Apt Elev 476' Rwy 421'
MISSED APCH: Climb STRAIGHT AHEAD to 1080' (659') or above (MAX 220 KT), then turn RIGHT to WW016 climbing to 2560' (2139') or above (MAX 220 KT), then turn RIGHT to WW315, then as directed.				MSA ARP

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3009')



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	MIM	MAX	WW016
Descent Angle	2.70°	334	430	478	573	669	PAPI	1080' (659')	220 KT	RT
MAP at RW15										

STRAIGHT-IN LANDING RWY 15				CIRCLE-TO-LAND			
LNAV							
MDA(H) 790' (369')							
ALS out				Max Kts	MDA(H)		
A				100	940' (464')	1600m	
B	RVR 720m				135	970' (494')	1600m
C	VIS 800m				180	1090' (614')	2800m
D	RVR 1500m				205	1190' (714')	3600m
	VIS 1600m						

CHANGES: New procedure.

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KURUMOCH

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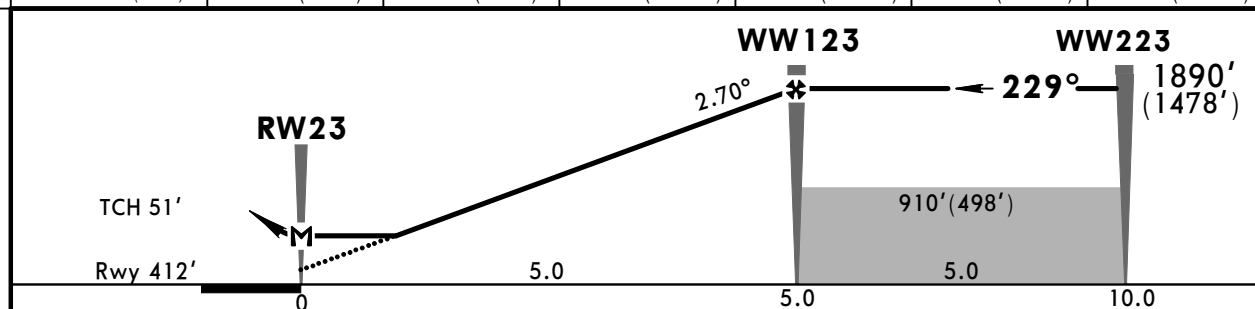
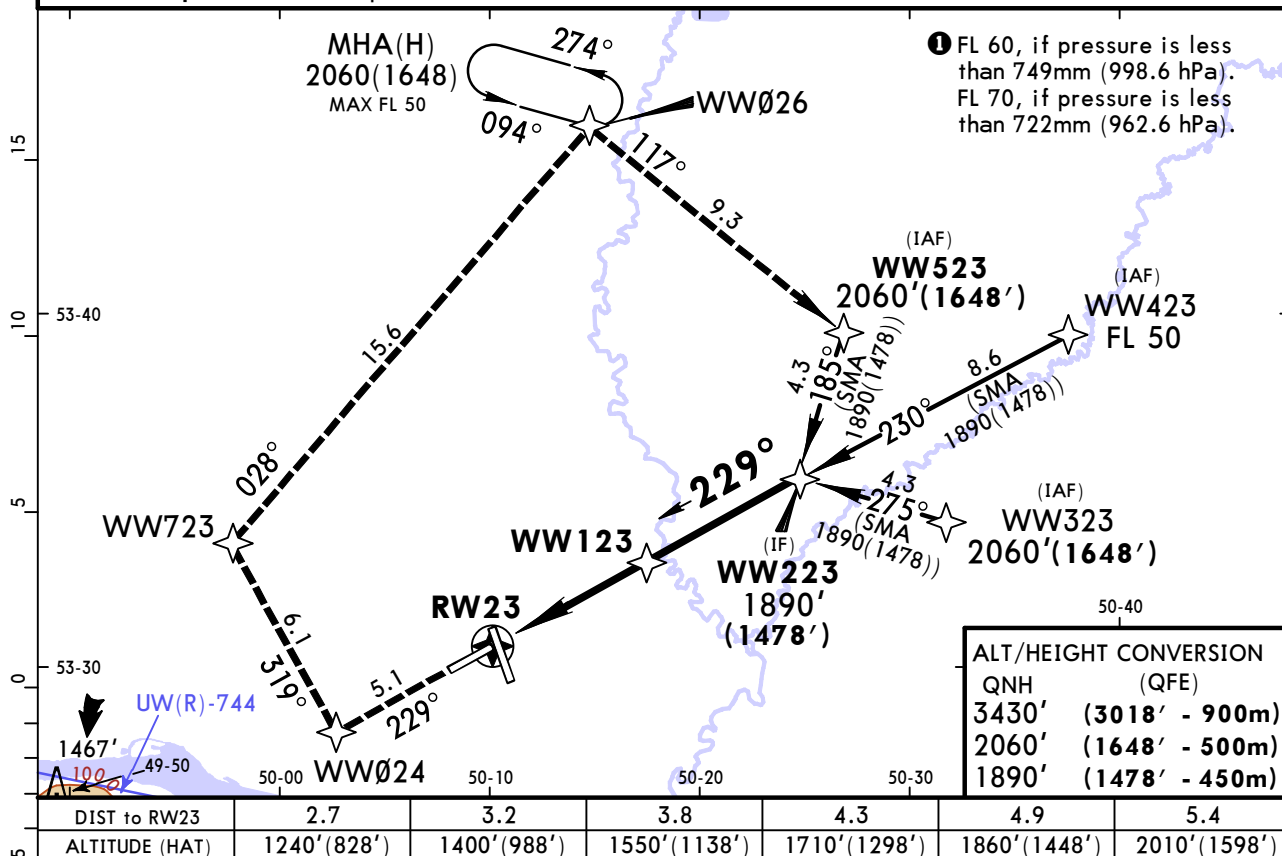
1 DEC 17

(12-3)

Eff 7 Dec

SAMARA, RUSSIA
RNAV (GNSS) Rwy 23

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
RNAV	Final Apch Crs 229°	Procedure Alt WW123 1890' (1478')	MDA(H) Refer to Minimums	Apt Elev 476' Rwy 412'
MISSED APCH: Climb STRAIGHT AHEAD to WW024 (MAX 220 KT), then turn RIGHT to WW723, proceed to WW026 climbing to 2060' (1648') or above (MAX 220 KT), then proceed to WW523, then as directed.				MSA ARP
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3018') 1. GNSS required. 2. RNP apch.				



Gnd speed-Kts	70	90	100	120	140	160	WW024 MAX 220 KT
Descent Angle	2.70°	334	430	478	573	764	
MAP at RW23							

STRAIGHT-IN LANDING RWY 23				CIRCLE-TO-LAND	
LNAV					
MDA(H) ABC: 790'(378') D: 810'(398')					
			ALS out	Max Kts	MDA(H)
A	RVR 720m		RVR 1500m	100	940' (464') 1600m
B	VIS 800m		VIS 1600m	135	970' (494') 1600m
C				180	1090' (614') 2800m
D	RVR 1500m VIS 1600m		RVR 1800m VIS 2000m	205	1190' (714') 3600m

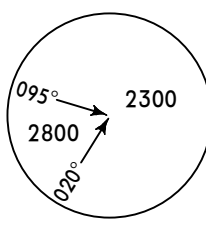
CHANGES: New procedure.

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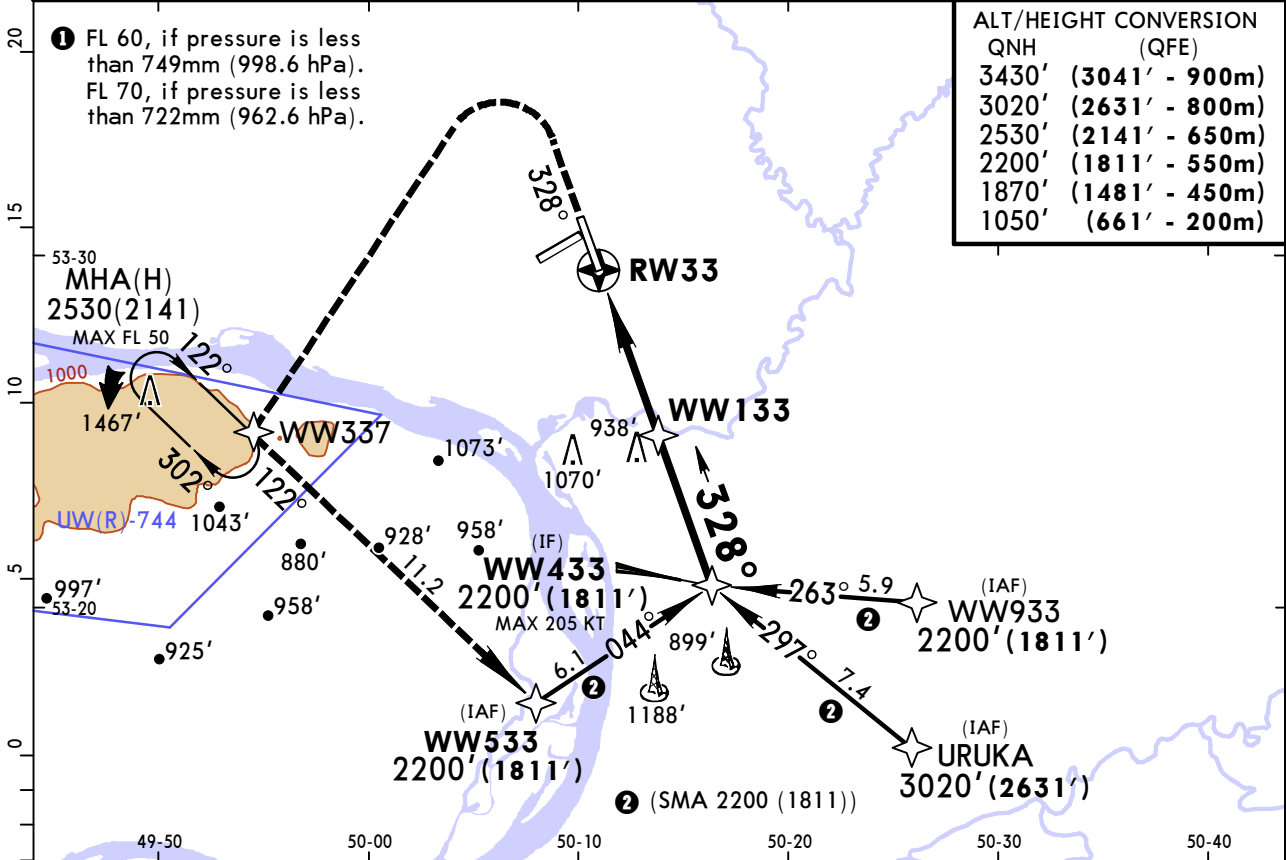
JEPPESEN
1 DEC 17
Eff 7 Dec 12-4

SAMARA, RUSSIA
RNAV (GNSS) Rwy 33

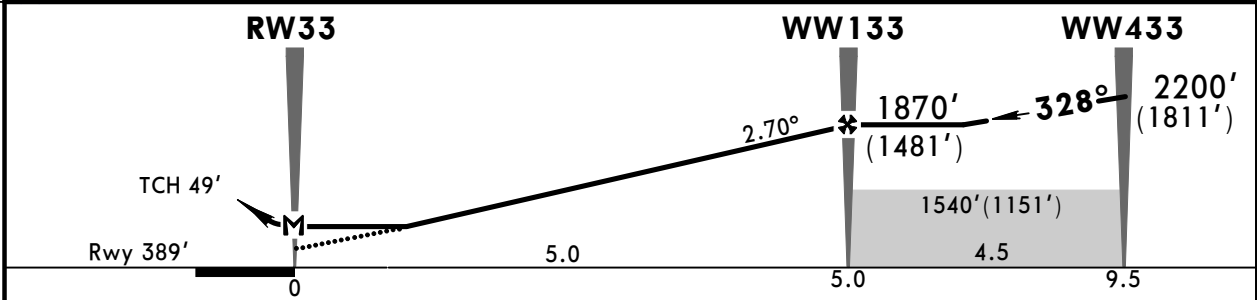
ATIS		SAMARA Approach		SAMARA Radar		SAMARA Tower		Ground	
134.1 (Russian 134.9)		124.6		128.0		118.2		119.0	
RNAV		Final Apch Crs 328°		Procedures Alt WW133 1870' (1481')		MDA(H) 790' (401')		Apt Elev 476' Rwy 389'	
MISSED APCH: Climb STRAIGHT AHEAD to 1050' (661') or above (MAX 220 KT), then turn LEFT to WW337 climbing to 2530' (2141') or above (MAX 220 KT), then proceed to WW533, then as directed.								 MSA ARP	
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 50 ❶		Trans alt: 3430' (3041')			
1. GNSS required. 2. RNP apch.									

① FL 60, if pressure is less than 749mm (998.6 hPa).
FL 70, if pressure is less than 722mm (962.6 hPa).

ALT/HEIGHT CONVERSION	QNH	(QFE)
3430'	(3041' - 900m)	
3020'	(2631' - 800m)	
2530'	(2141' - 650m)	
2200'	(1811' - 550m)	
1870'	(1481' - 450m)	
1050'	(661' - 200m)	



DIST to RW33	3.2	3.8	4.3	4.9
ALT (HAT)	1380' (991')	1530' (1141')	1690' (1301')	1840' (1451')



Gnd speed-Kts	70	90	100	120	140	160	HIALS	MIM	MAX	MIM	WW337
Descent Angle	2.70°	334	430	478	573	669	PAPI	1050' (661')	220 KT	2530' (2141')	
MAP at RW33											

STRAIGHT-IN LANDING RWY 33				CIRCLE-TO-LAND		
LNAV						
MDA(H) 790'(401')						
			ALS out	Max Kts	MDA(H)	
A	RVR 720m VIS 800m		RVR 1500m VIS 1600m	100	940'(464)'	1600m
B				135	970'(494)'	1600m
C	1200m		RVR 1800m VIS 2000m	180	1090'(614)'	2800m
D	RVR 1500m VIS 1600m			205	1190'(714)'	3600m

CHANGES: New procedure.

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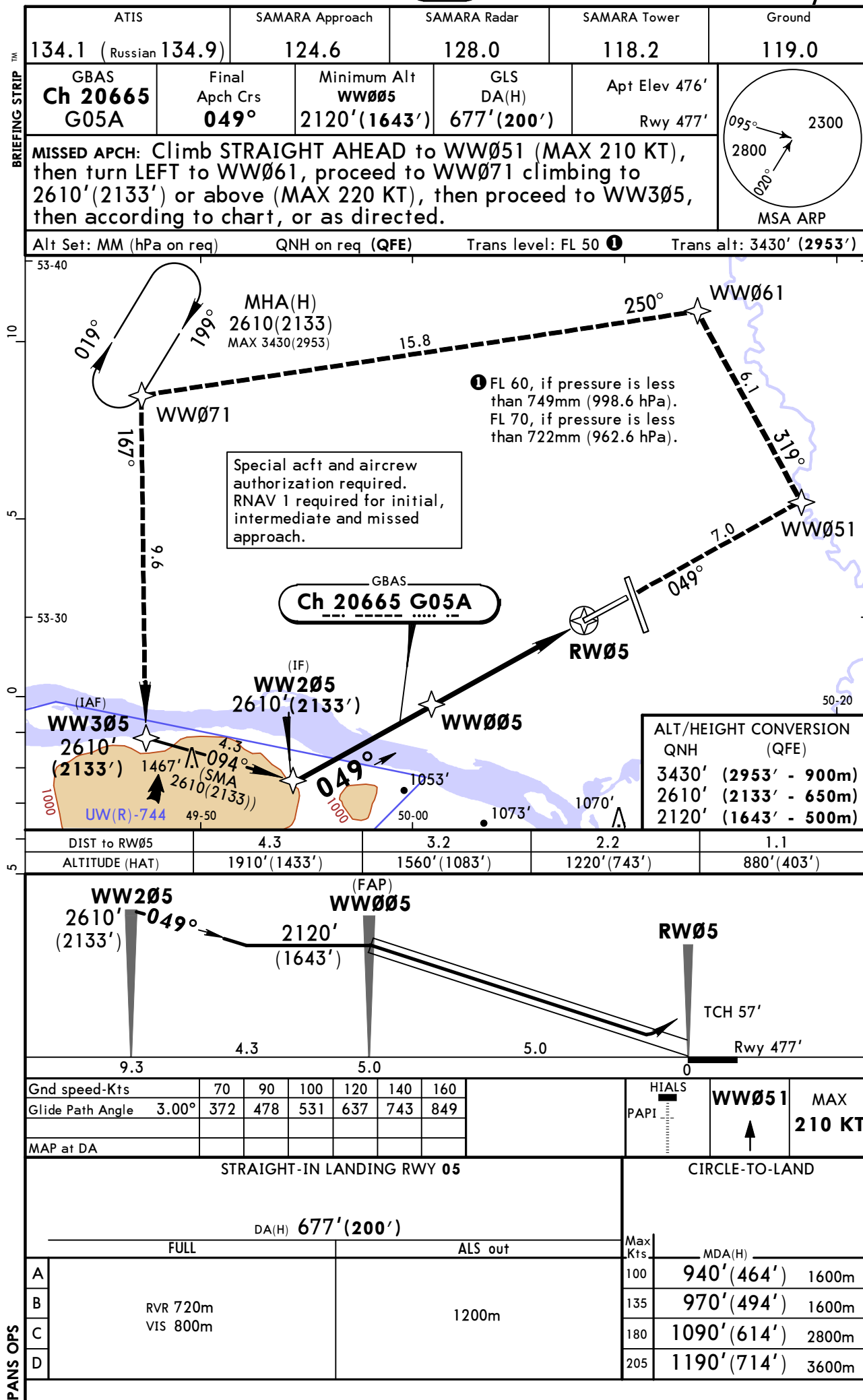
JEPPESEN

6 JUL 18

12-40

Eff 19 Jul

SAMARA, RUSSIA
GLS Rwy 05



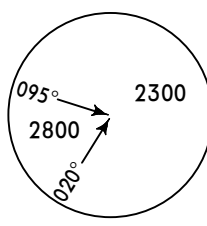
CHANGES: Minimums.

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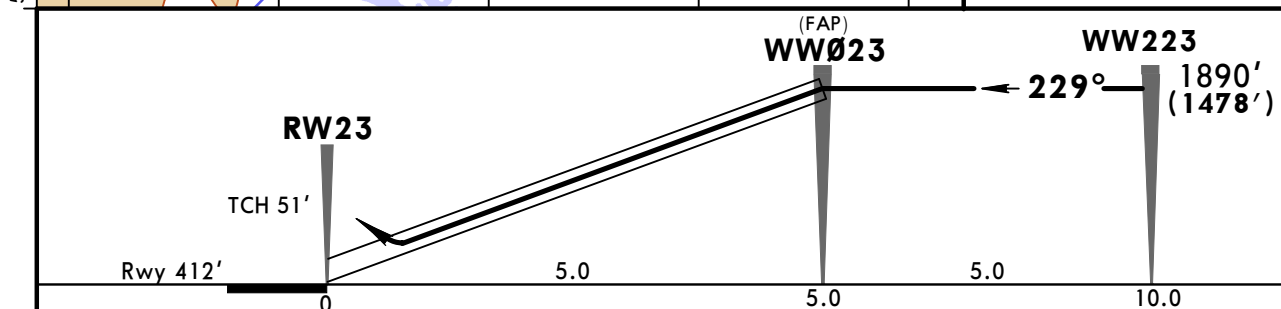
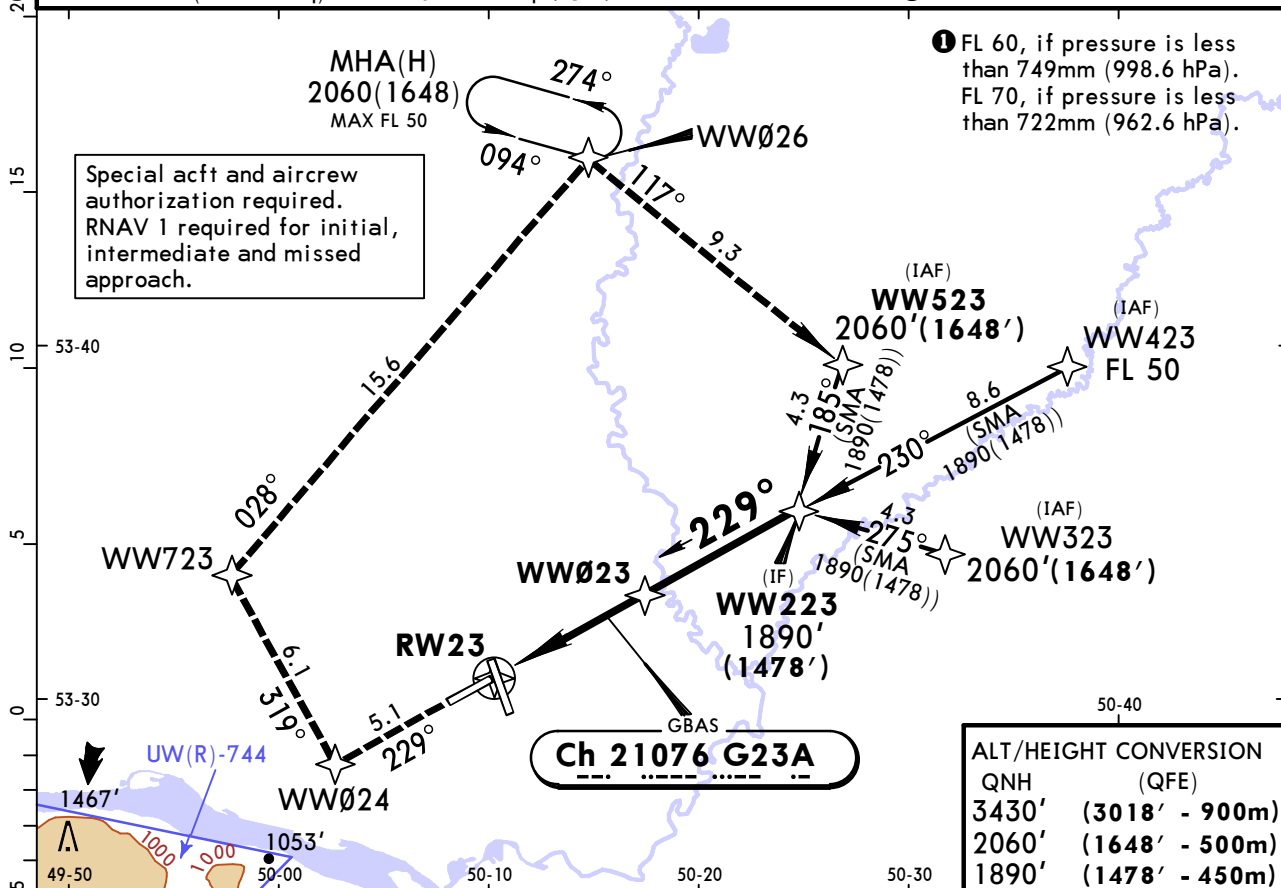
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KURUMOCH

JEPPESSEN
6 JUL 18 **12-41** **Eff 19 Jul**

SAMARA, RUSSIA
GLS Rwy 23

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
GBAS Ch 21076 G23A	Final Apch Crs 229°	Minimum Alt WW023 1890' (1478')	GLS DA(H) 612' (200')	Apt Elev 476' Rwy 412'
MISSED APCH: Climb STRAIGHT AHEAD to WW024 (MAX 220 KT), then turn RIGHT to WW723, proceed to WW026 climbing to 2060' (1648') or above (MAX 220 KT), then proceed to WW523, then as directed.				 MSA ARP

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3018')



Gnd speed-Kts	70	90	100	120	140	160	HIALS	WW024	MAX
Glide Path Angle	2.70°	334	430	478	573	669	PAPI	↑	220 KT
MAP at DA									

STRAIGHT-IN LANDING RWY 23				CIRCLE-TO-LAND			
DA(H) 612' (200')							
FULL		ALS out		Max Kts	MDA(H)		
A				100	940' (464')	1600m	
B				135	970' (494')	1600m	
C	RVR 720m VIS 800m		1200m	180	1090' (614')	2800m	
D				205	1190' (714')	3600m	

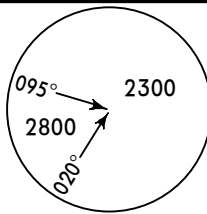
CHANGES: Minimums.

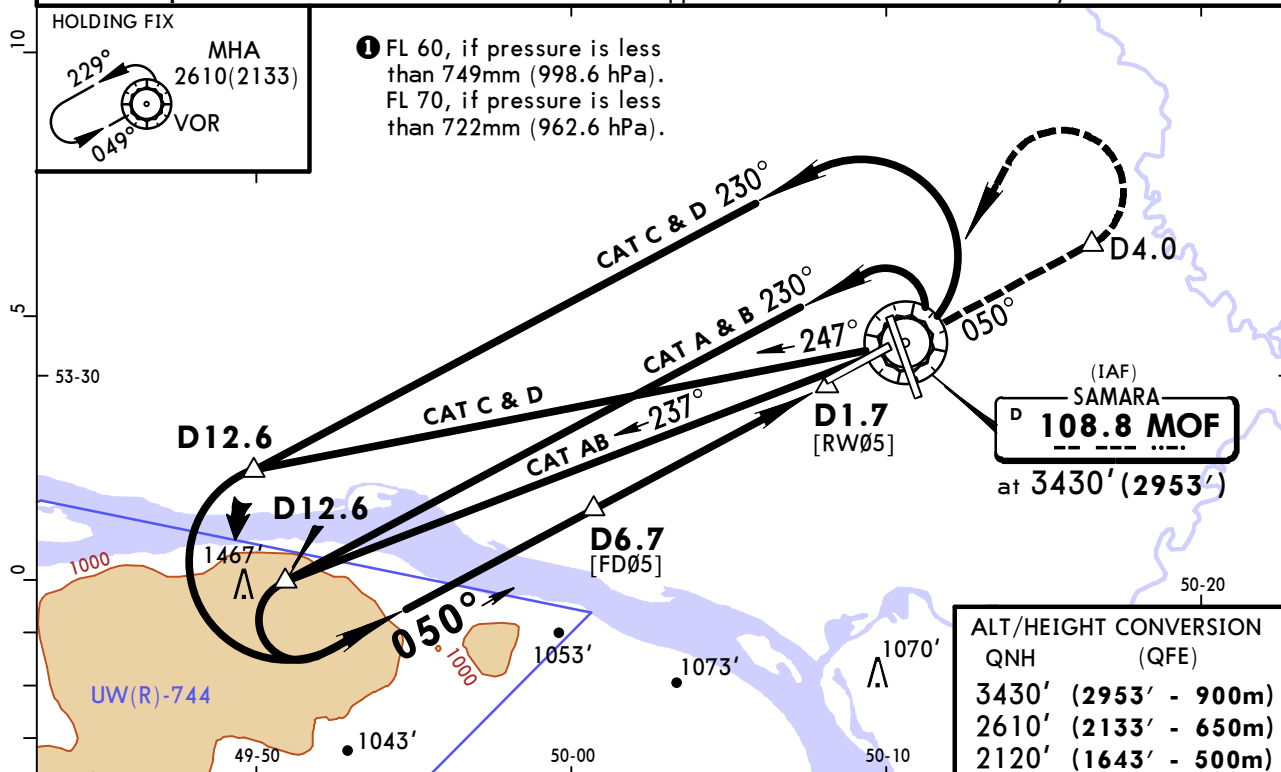
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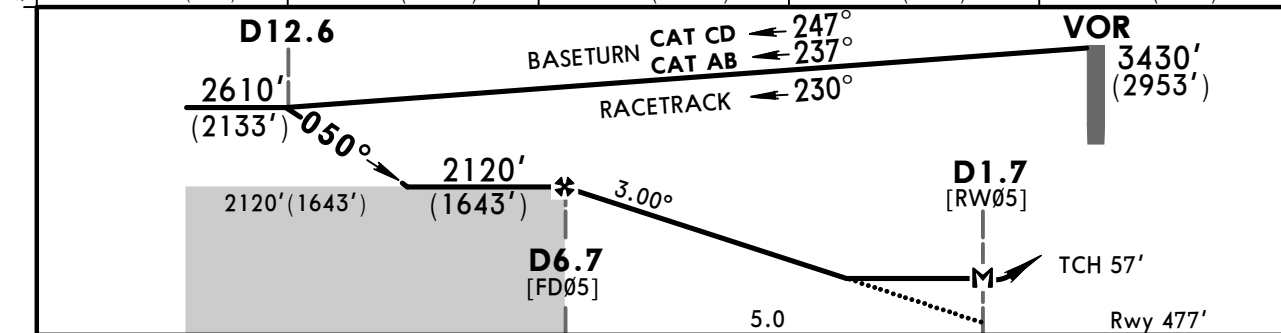
JEPPESEN
1 DEC 17 **(13-1)** **Eff 7 Dec**

SAMARA, RUSSIA
VOR Rwy 05

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
VOR MOF 108.8	Final Apch Crs 050°	Procedure Alt D6.7 2120'(1643')	MDA(H) 910'(433')	Apt Elev 476' Rwy 477'
MISSED APCH: Climb STRAIGHT AHEAD to D4.0, then turn LEFT to VOR climbing to 2610'(2133') or above or as directed.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (2953') 1. DME required. 2. Procedure MAX 225 KT. 3. Final approach track offset 1° from runway centerline.				MSA MOF VOR



MOF DME	6.5	5.4	4.3	3.2
ALTITUDE (HAT)	2060'(1583')	1710'(1233')	1370'(893')	1040'(563')



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.00°	372	478	531	637	743	849
MAP at D1.7						

STRAIGHT-IN LANDING RWY 05				CIRCLE-TO-LAND			
MDA(H) 910'(433')				MDA(H)			
ALS out				Max Kts			
A	RVR 720m VIS 800m	RVR 1500m VIS 1600m		100	940'(464')	1600m	
B				135	970'(494')	1600m	
C	1200m	RVR 1800m VIS 2000m		180	1090'(614')	2800m	
D	RVR 1500m VIS 1600m	2400m		205	1190'(714')	3600m	

CHANGES: New procedure.

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KURUMOCH

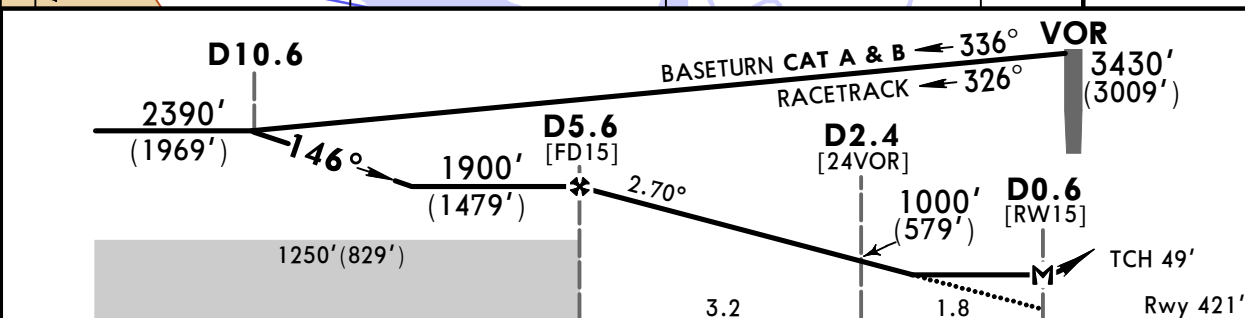
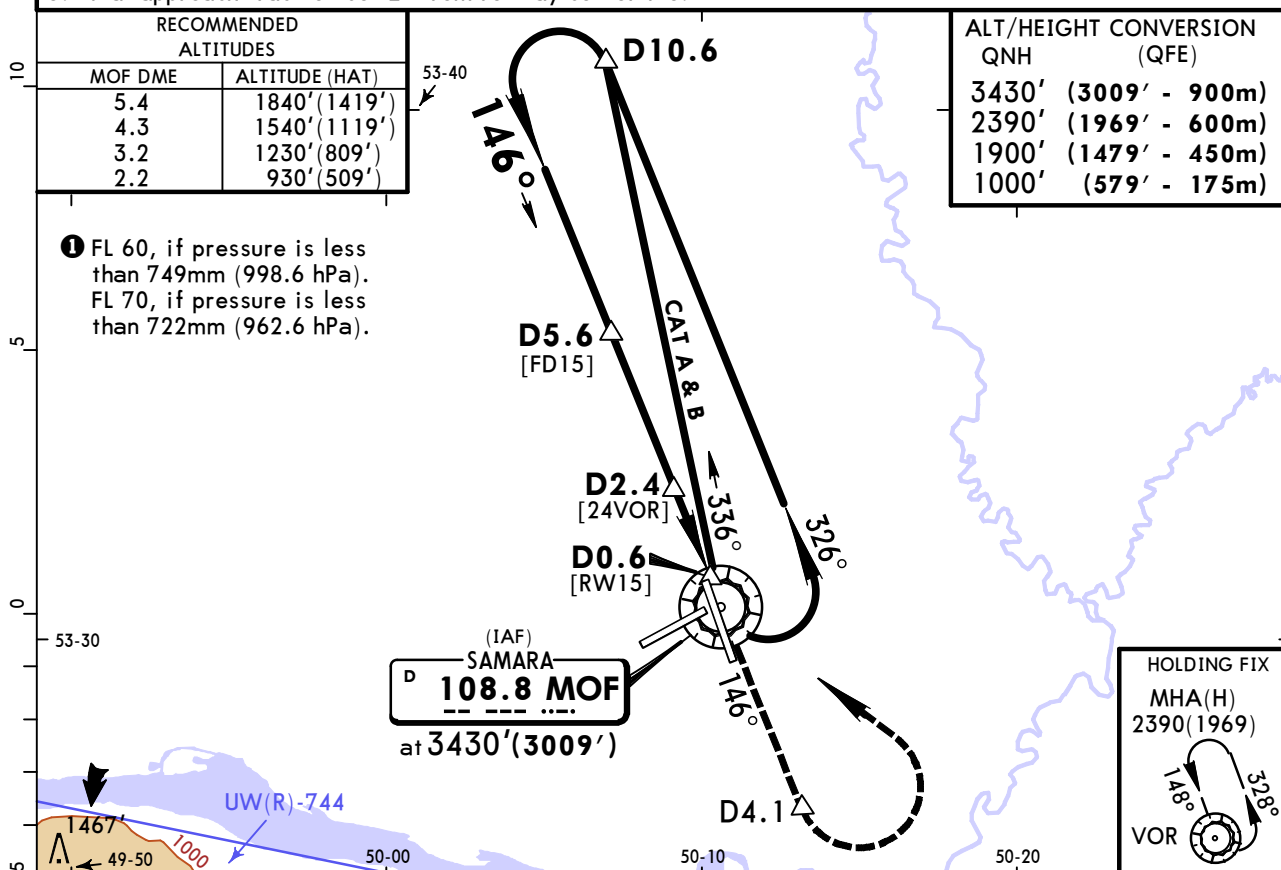
JEPPESSEN
1 DEC 17 **(13-2)** Eff 7 Dec

SAMARA, RUSSIA
VOR Rwy 15

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
VOR MOF 108.8	Final Apch Crs 146°	Procedure Alt D5.6 1900'(1479')	MDA(H) (CONDITIONAL) 810'(389')	Apt Elev 476' Rwy 421'
MISSED APCH: Climb STRAIGHT AHEAD to D4.1, then turn LEFT to VOR climbing to 2390'(1969') or above, or as directed.				

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3009')

1. DME required. 2. Procedure restricted to MAX 240 KT.
3. Final approach track offset 2° from runway centerline.



Gnd speed-Kts	70	90	100	120	140	160		HIALS-II	D4.1	MOF 108.8	MIM 2390' (1969')
Descent Angle	2.70°	334	430	478	573	669	764	PAP	↑	LT	↑
MAP at D0.6											

STRAIGHT-IN LANDING RWY 15					CIRCLE-TO-LAND		
With D2.4		W/o D2.4			MDA(H)		
MDA(H) 810'(389')		MDA(H) 960'(539')					
ALS out		ALS out		Max Kts			
A				100	1010' (534')		1600m
B	RVR 720m VIS 800m	RVR 1500m VIS 1600m	RVR 720m VIS 800m	135			
C			RVR 1500m VIS 1600m	180	1090' (614')		2800m
D	RVR 1500m VIS 1600m	RVR 1800m VIS 2000m	RVR 1800m VIS 2000m	205	1190' (714')		3600m

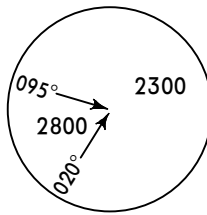
CHANGES: New procedure.

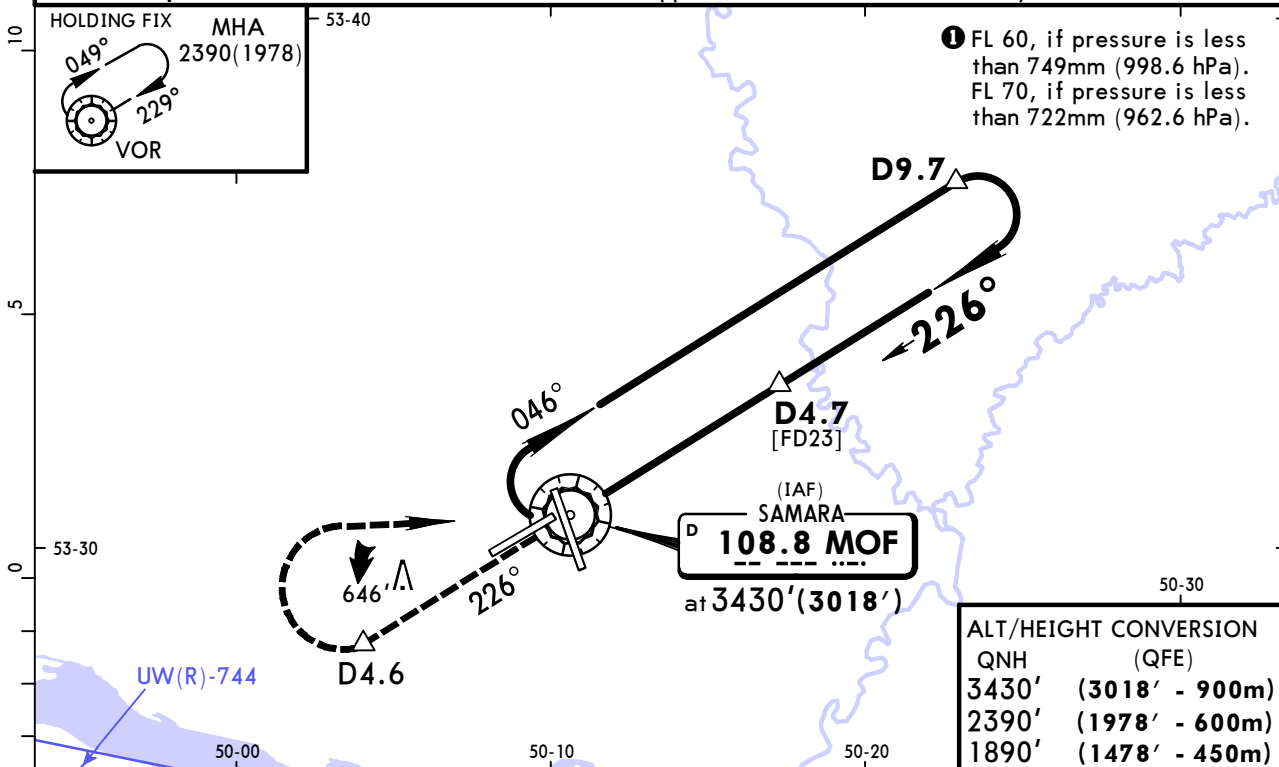
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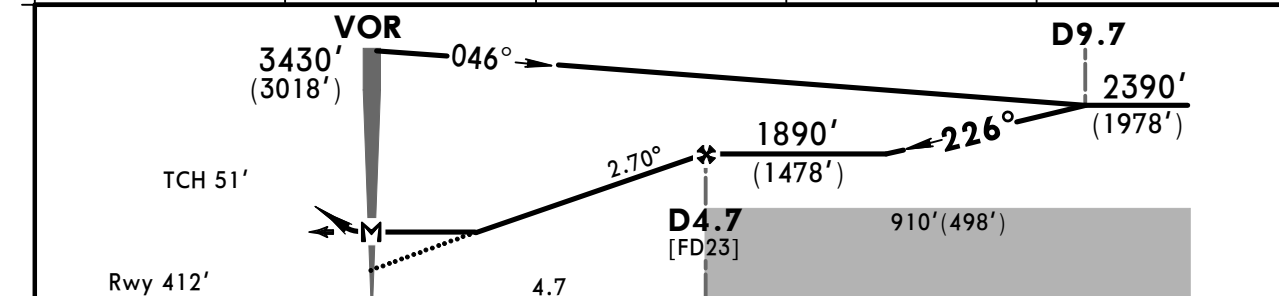
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1 DEC 17 **(13-3)** **Eff 7 Dec**

SAMARA, RUSSIA
VOR Rwy 23

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
VOR MOF 108.8	Final Apch Crs 226°	Procedure Alt D4.7 1890' (1478')	MDA(H) 760' (348')	Apt Elev 476' Rwy 412'
MISSED APCH: Climb STRAIGHT AHEAD to D4.6, then turn RIGHT to VOR climbing to 2390' (1978') or above or as directed.				 MSA MOF VOR
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3018') 1. DME required. 2. Procedure MAX 225 KT. 3. Final approach track offset 3° from rwy centerline.				



MOF DME	1.1	2.2	3.2	4.3
ALTITUDE (HAT)	880' (468')	1190' (778')	1500' (1088')	1790' (1378')



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	D4.6 ↑	MM 2390' (1978') RT	MOF 108.8
Descent Angle	2.70°	334	430	478	573	764				
MAP at VOR										

STRAIGHT-IN LANDING RWY 23				CIRCLE-TO-LAND			
MDA(H) 760' (348')							
ALS out				Max Kts	MDA(H)		
A	RVR 720m VIS 800m		RVR 1500m VIS 1600m		100	940' (464')	1500m
B					135	970' (494')	1600m
C					180	1090' (614')	2800m
D	RVR 1500m VIS 1600m		RVR 1800m VIS 2000m		205	1190' (714')	3600m

CHANGES: New procedure.

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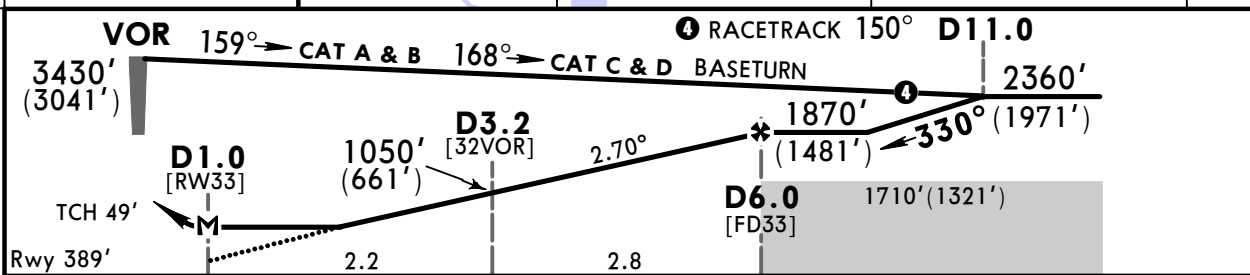
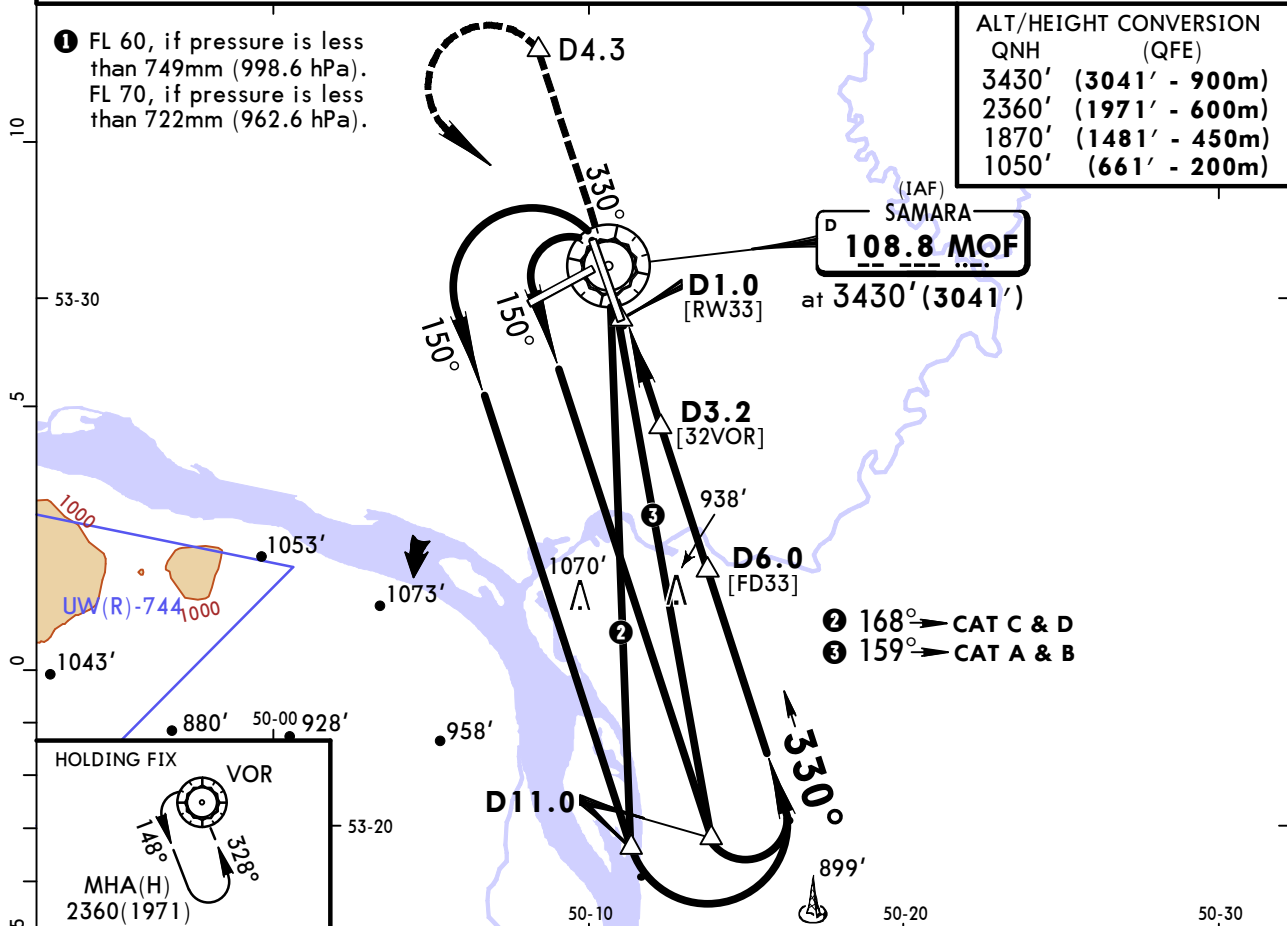
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JEPPESEN
1 DEC 17 (13-4) Eff 7 Dec

SAMARA, RUSSIA
VOR Rwy 33

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
VOR MOF 108.8	Final Apch Crs 330°	Procedure ALT D6.0 1870' (1481')	MDA(H) (CONDITIONAL) 730' (341')	Apt Elev 476' Rwy 389'
MISSED APCH: Climb STRAIGHT AHEAD to D4.3, then turn LEFT to VOR climbing to 2360' (1971') or above, or as directed.				MSA MOF VOR

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3041')
1. DME required. 2. Procedure restricted to 215 KT. 3. Final apch track offset 2° from rwy centerline.



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	D4.3 ↑	MOF 108.8 LT	MIM 2360' (1971') ↑
Descent Angle	2.70°	334	430	478	573	669				
MAP at D1.0										

STRAIGHT-IN LANDING RWY 33						CIRCLE-TO-LAND		
With D3.2			W/o D3.2					
MDA(H) 730' (341')			MDA(H) 790' (401')					
ALS out			ALS out			Max Kts	MDA(H)	
A	1200m	RVR 1500m VIS 1600m	1200m	RVR 1500m VIS 1600m	RVR 1800m VIS 2000m	100	940' (464)'	1600m
B						135	970' (494)'	1600m
C						180	1090' (614)'	2800m
D	RVR 1500m VIS 1600m		RVR 1500m VIS 1600m			205	1190' (714)'	3600m

CHANGES: New procedure.

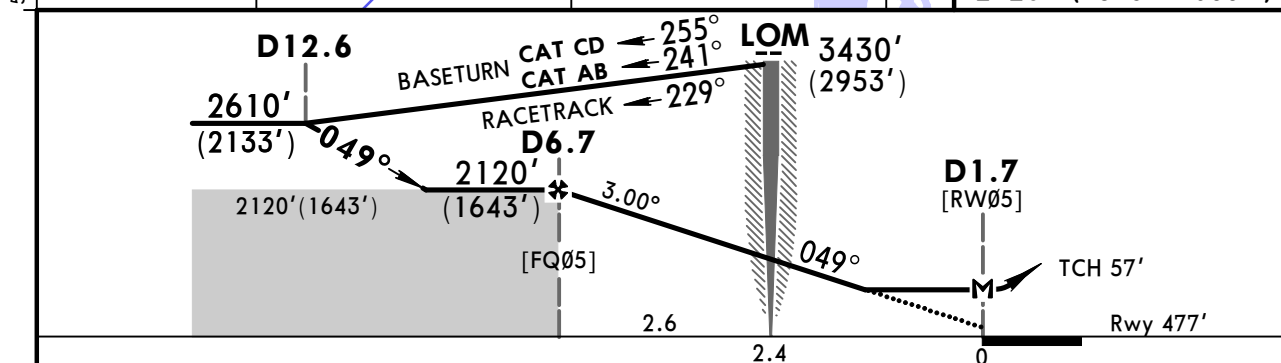
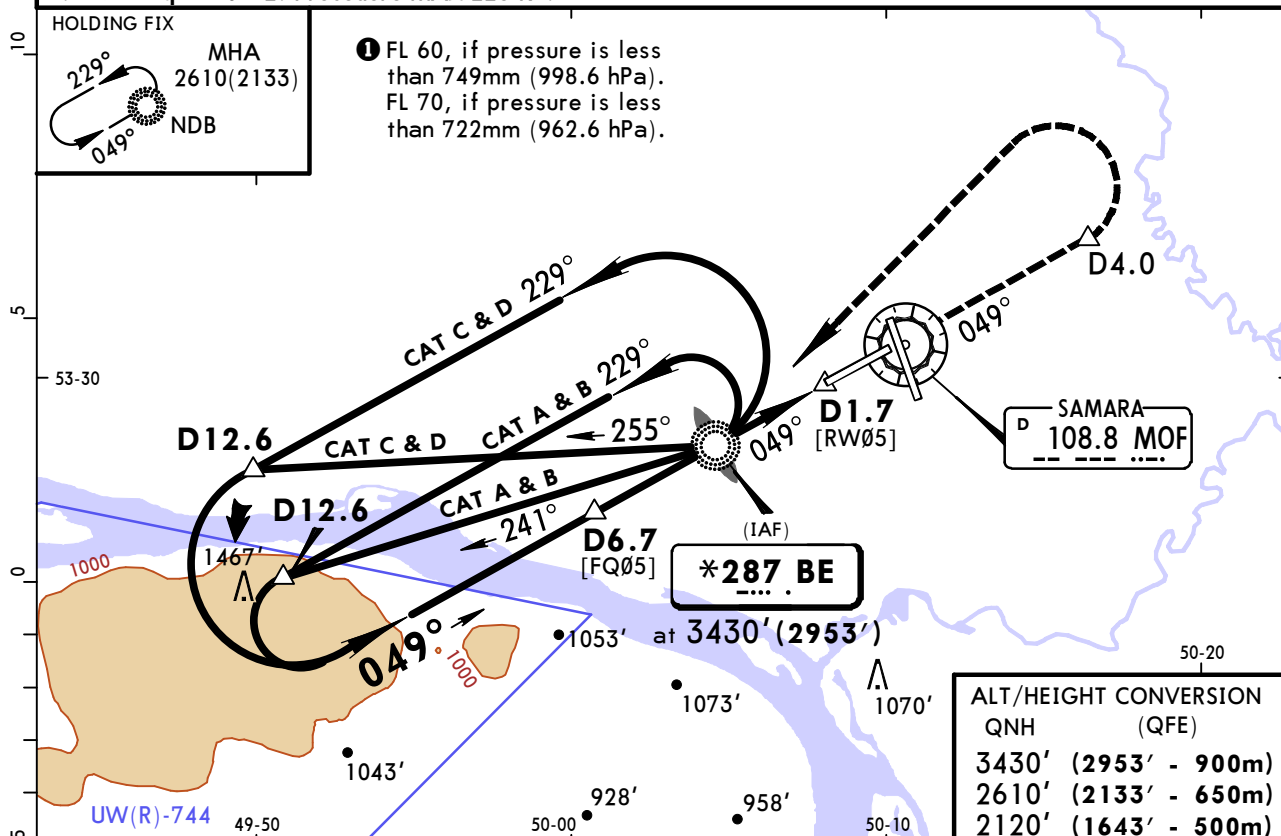
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JEPPESEN
1 DEC 17 **16-1** **Eff 7 Dec**

SAMARA, RUSSIA
NDB Rwy 05

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
NDB BE *287	Final Apch Crs 049°	Procedure Alt D6.7 2120'(1643')	MDA(H) 910'(433')	Appt Elev 476' Rwy 477'
MISSED APCH: Climb STRAIGHT AHEAD to D4.0, then turn LEFT to NDB climbing to 2610'(2133') or above or as directed.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 1 Trans alt: 3430' (2953') 1. DME required. 2. Procedure MAX 225 KT.				



Gnd speed-Kts	70	90	100	120	140	160	HIALS	D4.0	MTM 2610' (2133')	BE 287
Descent Angle 3.00°	372	478	531	637	743	849	PAPI	↑	LT	
MAP at D1.7										

STRAIGHT-IN LANDING RWY 05				CIRCLE-TO-LAND			
MDA(H) 910'(433')							
				Max Kts	MDA(H)		
				100	940'(464')	1600m	
				135	970'(494')	1600m	
				180	1090'(614')	2800m	
				205	1190'(714')	3600m	

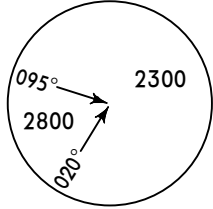
CHANGES: New procedure.

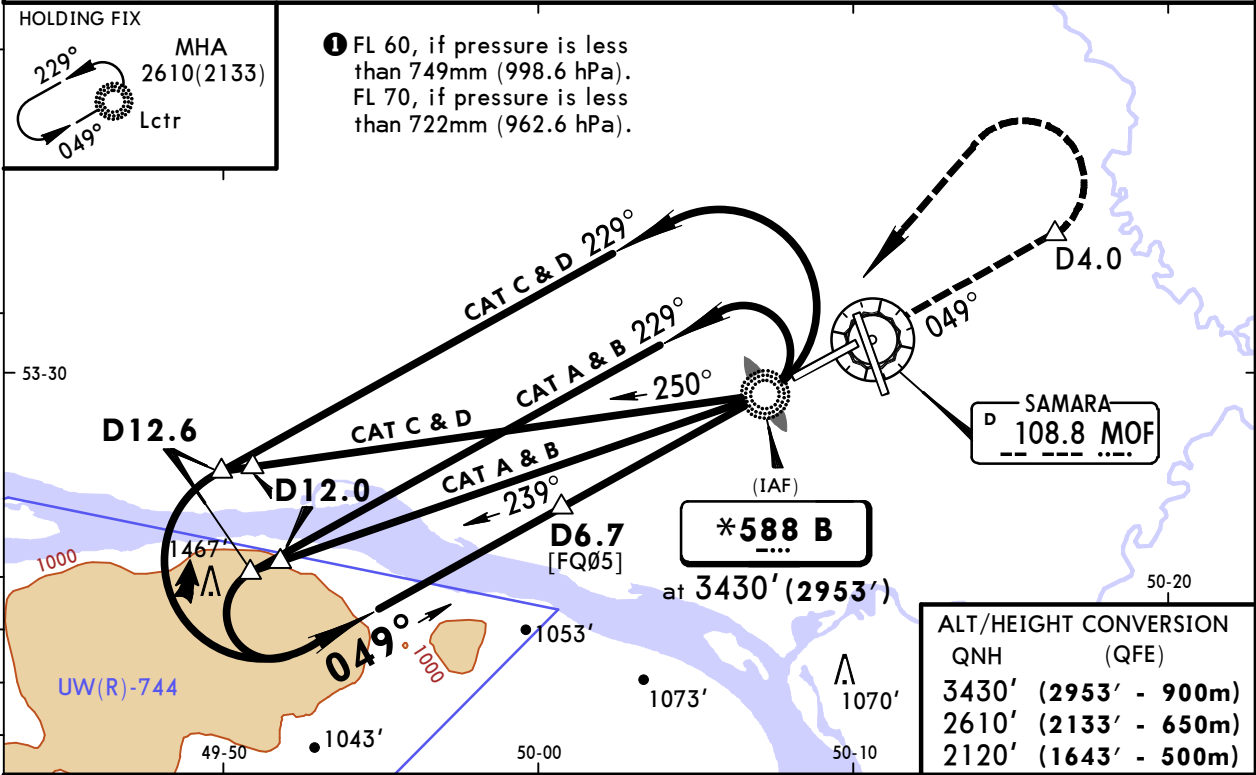
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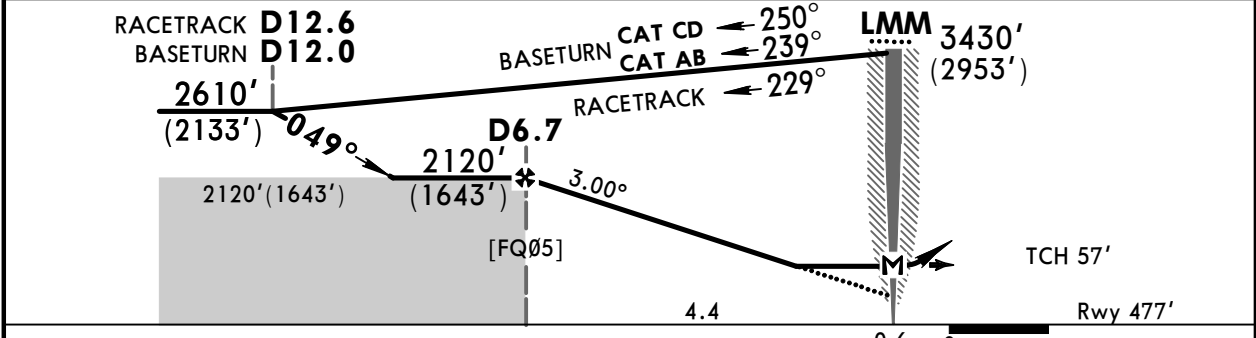
JEPPESEN
1 DEC 17 (16-2) Eff 7 Dec

SAMARA, RUSSIA
NDB Y Rwy 05

ATIS		SAMARA Approach		SAMARA Radar		SAMARA Tower		Ground	
134.1 (Russian 134.9)		124.6		128.0		118.2		119.0	
Lctr B *588	Final Apch Crs 049°	Procedure Alt D6.7 2120'(1643')	MDA(H) 910'(433')		Apt Elev 476' Rwy 477'				
MISSED APCH: Climb STRAIGHT AHEAD to D4.0, then turn LEFT to Lctr climbing to 2610'(2133') or above or as directed.									
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 50 ❶		Trans alt: 3430' (2953')			
1. DME required. 2. Procedure MAX 225 KT.									



MOF DME	6.5	5.4	4.3	3.2
ALTITUDE (HAT)	2060'(1583')	1710'(1233')	1370'(893')	1040'(563')



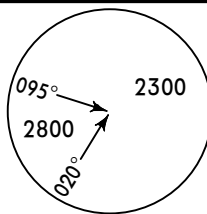
Gnd speed-Kts	70	90	100	120	140	160	HIALS	D4.0	MM 2610' (2133')	B 588
Descent Angle	3.00°	372	478	531	637	743	849	PAPI	LT	
MAP at Lctr										

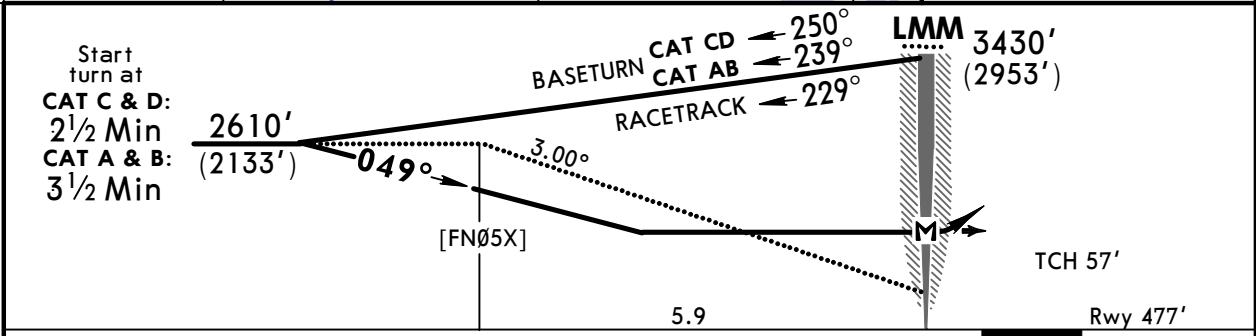
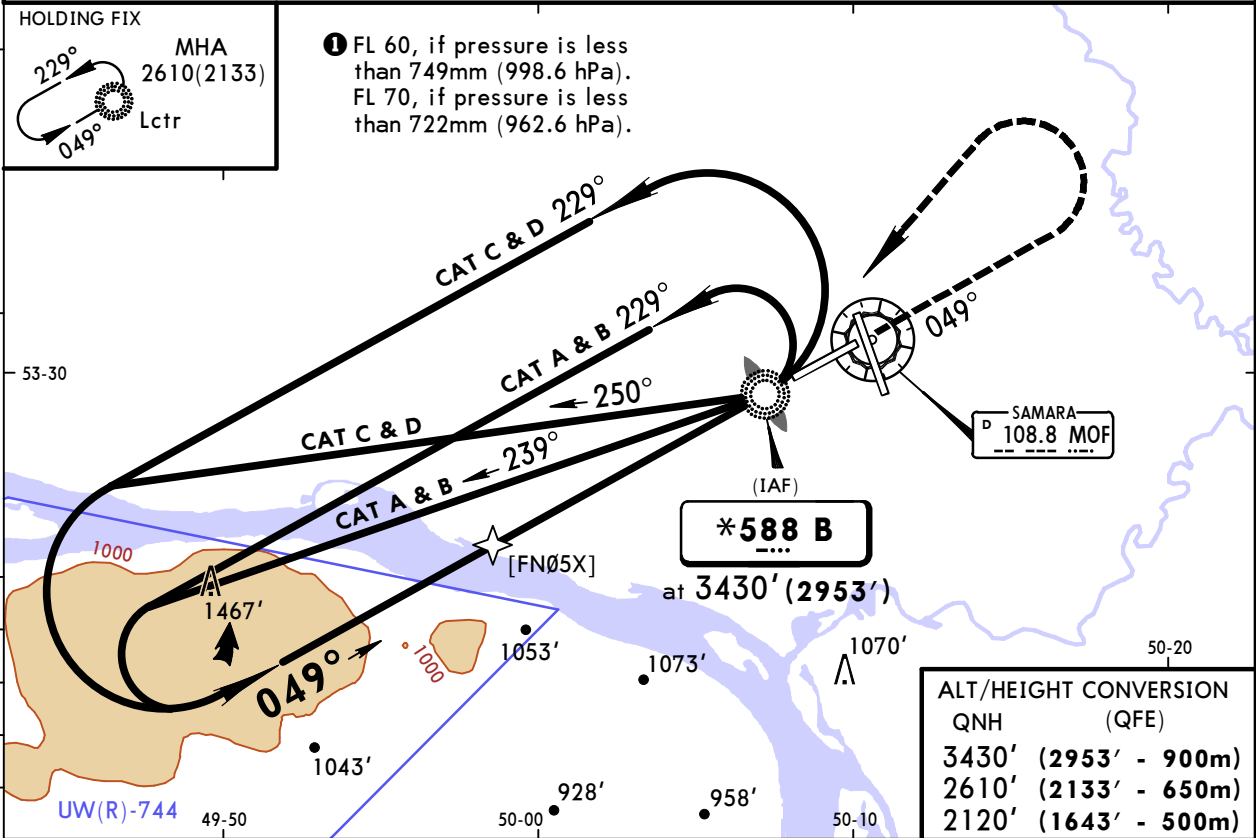
STRAIGHT-IN LANDING RWY 05				CIRCLE-TO-LAND			
MDA(H) 910'(433')							
		ALS out		Max Kts	MDA(H)		
A	1200m	RVR 1500m VIS 1600m		100	940'(464')	1600m	
B		RVR 1800m VIS 2000m		135	970'(494')	1600m	
C		RVR 1800m VIS 2000m		180	1090'(614')	2800m	
D	RVR 1800m VIS 2000m	2400m		205	1190'(714')	3600m	

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KURUMOCH

JEPPESEN
1 DEC 17 **(16-3)** Eff 7 Dec

SAMARA, RUSSIA
NDB X Rwy 05

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
Lctr B *588	Final Apch Crs 049°	No FAF	MDA(H) 1760'(1283')	Apt Elev 476' Rwy 477'
MISSED APCH: Climb STRAIGHT AHEAD to 2120'(1643') or above, then turn LEFT to Lctr to 2610'(2133') or above or as directed.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ①				Trans alt: 3430' (2953')
Procedure MAX 220 KT.				



Gnd speed-Kts	70	90	100	120	140	160		HIALS	MIM 2120' (1643')	MIM 2610' (2133')	B 588
Descent Angle	3.00°	372	478	531	637	743	849	PAPI			
MAP at Lctr											

STRAIGHT-IN LANDING RWY 05						CIRCLE-TO-LAND			
MDA(H) 1760'(1283')									
						Max Kts	MDA(H)		
A	1200m			ALS out		100	1760'(1284') 2000m		
B	RVR 1500m VIS 1600m			RVR 1800m VIS 2000m		135	1760'(1284') 2400m		
C	4000m			2400m		180	1760'(1284') 4800m		
D	4400m			4800m		205			

UWWW/KUF
KURUMOCH

JEPPESSEN
1 DEC 17 (16-4) Eff 7 Dec

SAMARA, RUSSIA
NDB Rwy 15

ATIS
134.1 (Russian 134.9)

SAMARA Approach
124.6

SAMARA Radar
128.0

SAMARA Tower
118.2

Ground
119.0

NDB WG
*287

Final Apch Crs
148°

Procedure Alt
D5.6
1900'(1479')

MDA(H)
840'(419')

Apt Elev 476'
Rwy 421'

MISSED APCH: Climb STRAIGHT AHEAD to D4.1, then turn LEFT to NDB climbing to 2390'(1969') or above, or as directed.

095°
2800
020°

2300

MSA WG NDB

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 1 Trans alt: 3430' (3009')

1. DME required. 2. Procedure restricted to MAX 240 KT.

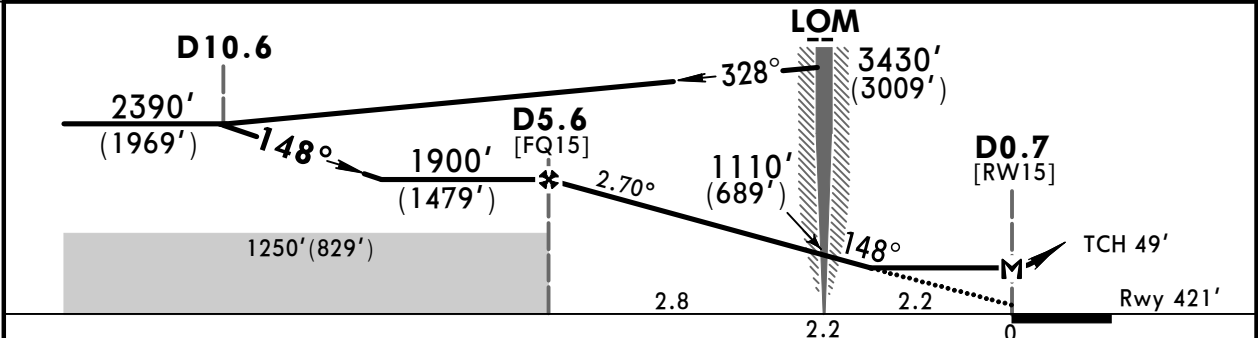
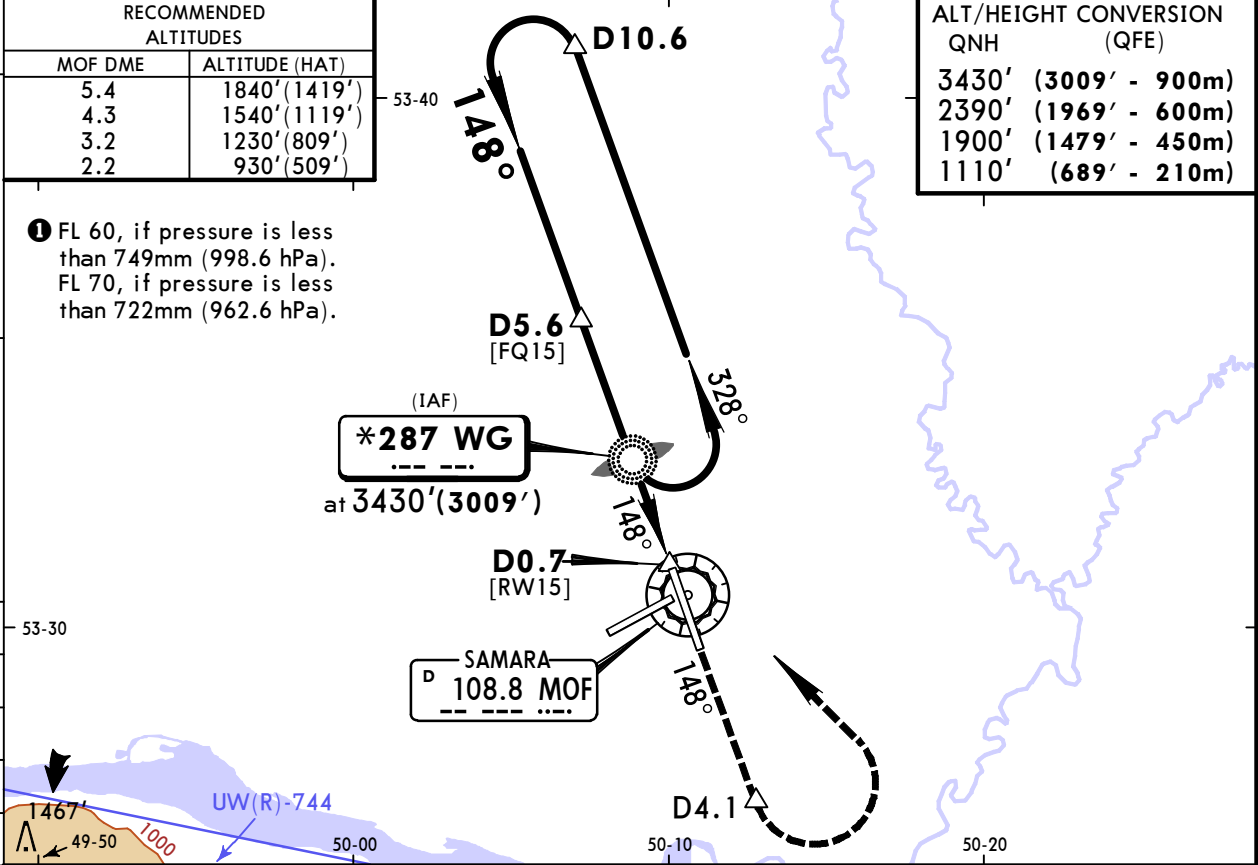
RECOMMENDED ALTITUDES

MOF DME	ALTITUDE (HAT)
5.4	1840'(1419')
4.3	1540'(1119')
3.2	1230'(809')
2.2	930'(509')

ALT/HEIGHT CONVERSION

QNH	(QFE)
3430'	(3009' - 900m)
2390'	(1969' - 600m)
1900'	(1479' - 450m)
1110'	(689' - 210m)

1 FL 60, if pressure is less than 749mm (998.6 hPa).
FL 70, if pressure is less than 722mm (962.6 hPa).



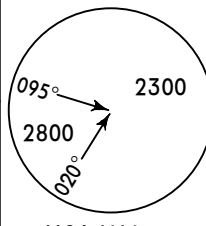
Gnd speed-Kts	70	90	100	120	140	160		HIALS-II	D4.1	WG 287	MIM 2390' (1969')
Descent Angle 2.70°	334	430	478	573	669	764		PAP	↑	LT	↑
MAP at D0.7											

STRAIGHT-IN LANDING RWY 15						CIRCLE-TO-LAND			
MDA(H) 840'(419')									
						Max Kts	MDA(H)		
						100	940'(464')	1600m	
						135	970'(494')	1600m	
						180	1090'(614')	2800m	
						205	1190'(714')	3600m	

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JEPPESSEN
1 DEC 17 (16-5) Eff 7 Dec

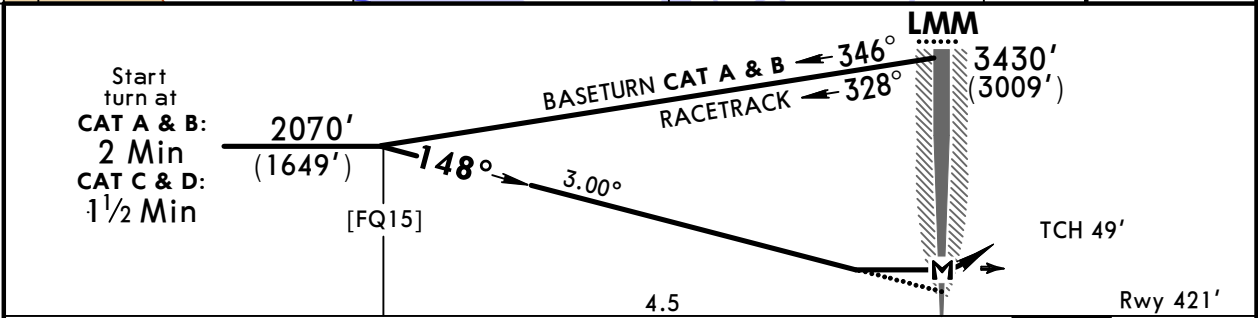
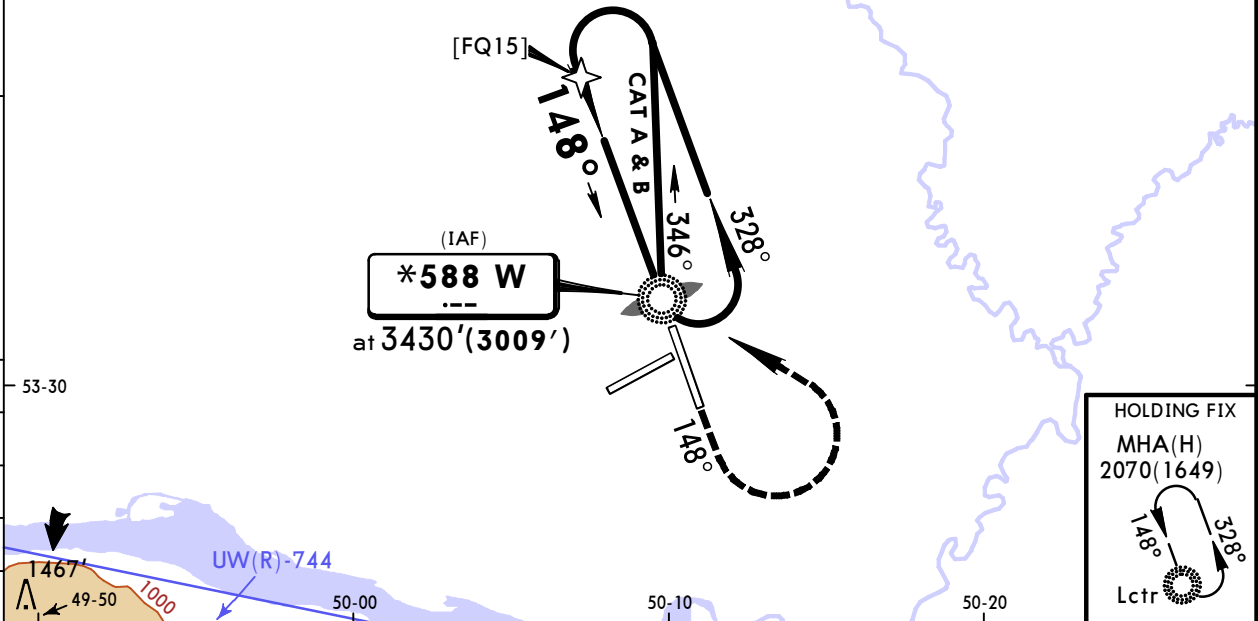
SAMARA, RUSSIA
NDB Y Rwy 15

ATIS		SAMARA Approach		SAMARA Radar		SAMARA Tower		Ground	
134.1 (Russian 134.9)		124.6		128.0		118.2		119.0	
Lctr W *588		Final Apch Crs 148°		No FAF		MDA(H) 1010'(589')		Apt Elev 476' Rwy 421'	
MISSED APCH: Climb STRAIGHT AHEAD to 1410'(989') or above, then turn LEFT to Lctr climbing to 2070'(1649') or above, or as directed.									
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 50 ❶		Trans alt: 3430' (3009')			
Procedure restricted to MAX 240 KT.									

① FL 60, if pressure is less than 749mm (998.6 hPa).
FL 70, if pressure is less than 722mm (962.6 hPa).

ALT/HEIGHT CONVERSION	
QNH (QFE)	
3430' (3009' - 900m)	
2070' (1649' - 500m)	
1410' (989' - 300m)	

10
53-40
5
0
53-30
5



Gnd speed-Kts	70	90	100	120	140	160		HIALS-II	MIM	W	MIM
Descent Angle	3.00°	372	478	531	637	743	849	PAP	1410'(989')	588	2070'(1649')
MAP at LMM									↑	LT	↑

STRAIGHT-IN LANDING RWY 15						CIRCLE-TO-LAND					
MDA(H) 1010'(589')											
ALS out						Max Kts	MDA(H)				
A	1200m					100	1050' (574')				
B	RVR 1500m VIS 1600m					135	1090' (614')				
C	RVR 1500m VIS 1600m					180	1190' (714')				
D	2400m					205	3600m				

CHANGES: New procedure.

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1 DEC 17 **16-6** Eff 7 Dec

SAMARA, RUSSIA
NDB X Rwy 15

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
Lctr W *588	Final Apch Crs 148°	Procedure Alt D5.6 1900' (1479')	MDA(H) (CONDITIONAL) 810' (389') Apt Elev 476' Rwy 421'	
MISSED APCH: Climb STRAIGHT AHEAD to D4.1, then turn LEFT to Lctr climbing to 2390' (1969') or above, or as directed.				MSA W Lctr

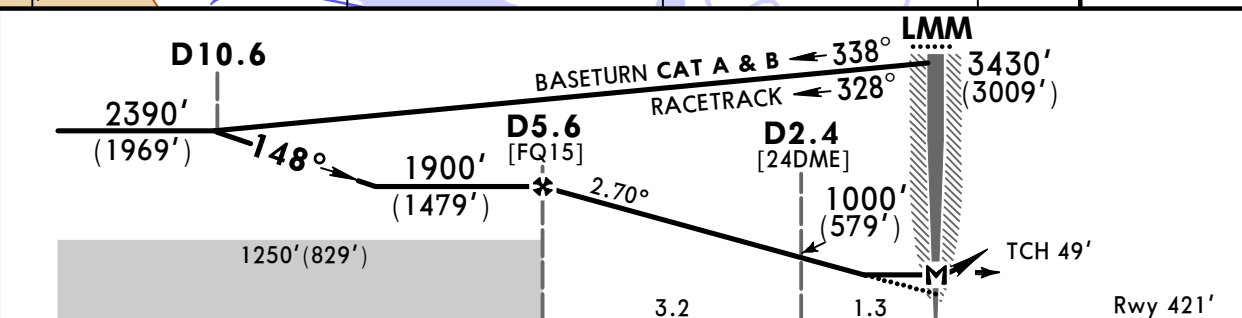
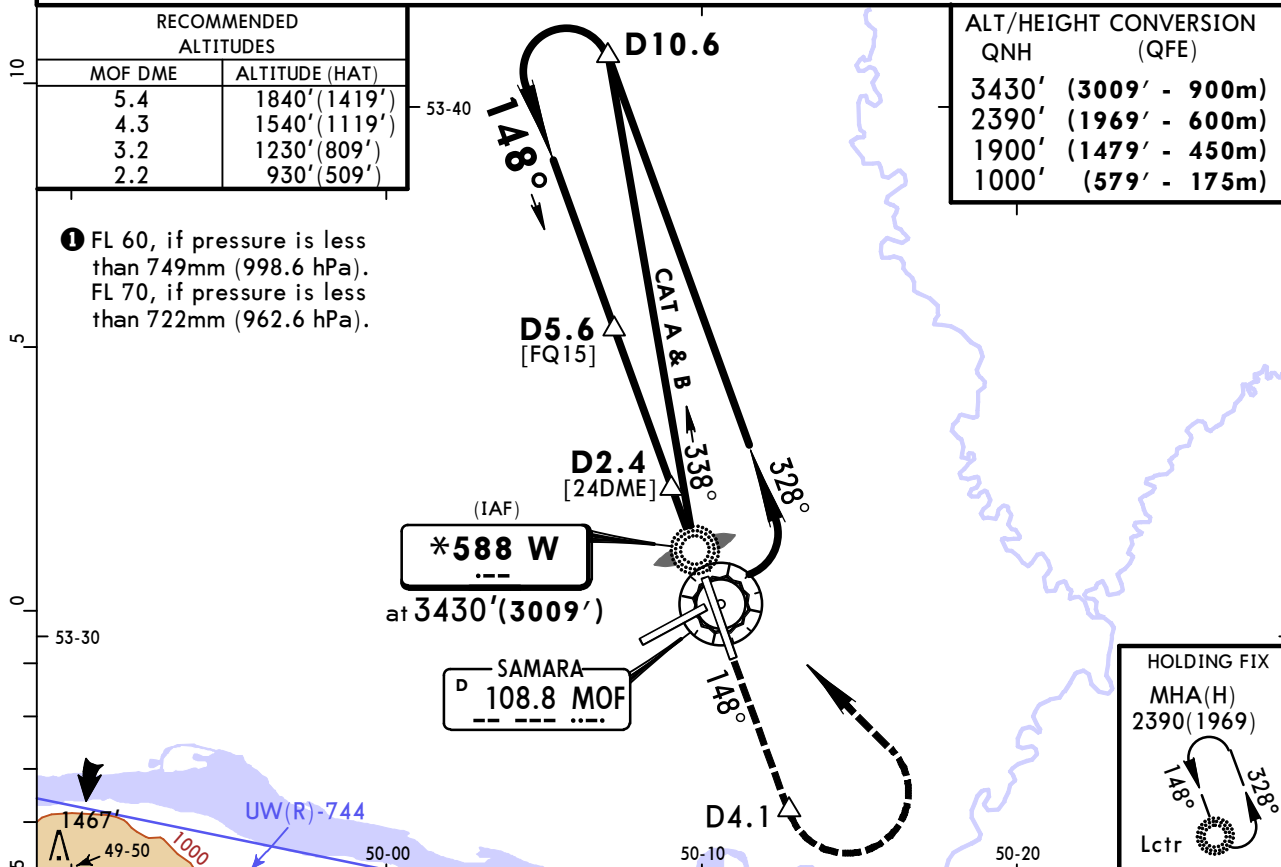
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3009')

1. DME required. 2. Procedure restricted to MAX 240 KT.

RECOMMENDED ALTITUDES	
MOF DME	ALTITUDE (HAT)
5.4	1840' (1419')
4.3	1540' (1119')
3.2	1230' (809')
2.2	930' (509')

ALT/HEIGHT CONVERSION	
QNH	(QFE)
3430'	(3009' - 900m)
2390'	(1969' - 600m)
1900'	(1479' - 450m)
1000'	(579' - 175m)

① FL 60, if pressure is less than 749mm (998.6 hPa).
FL 70, if pressure is less than 722mm (962.6 hPa).



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	D4.1	W 588	MIM 2390' (1969')
Descent Angle	2.70°	334	430	478	573	669	PAP	↑	LT	↑
MAP at LMM										

STRAIGHT-IN LANDING RWY 15

CIRCLE-TO-LAND

With D2.4			W/o D2.4		Max Kts	MDA(H)	
MDA(H) 810'(389')		MDA(H) 960'(539')					
		ALS out		ALS out			
A	1200m	RVR 1500m VIS 1600m	1200m	RVR 1500m VIS 1600m	100	1010' (534')	1600m
B					135		
C				RVR 1500m VIS 1600m	2400m	180	1090' (614')
D	RVR 1500m VIS 1600m	RVR 1800m VIS 2000m	2400m	2800m	205	1190' (714')	3600m

CHANGES: New procedure.

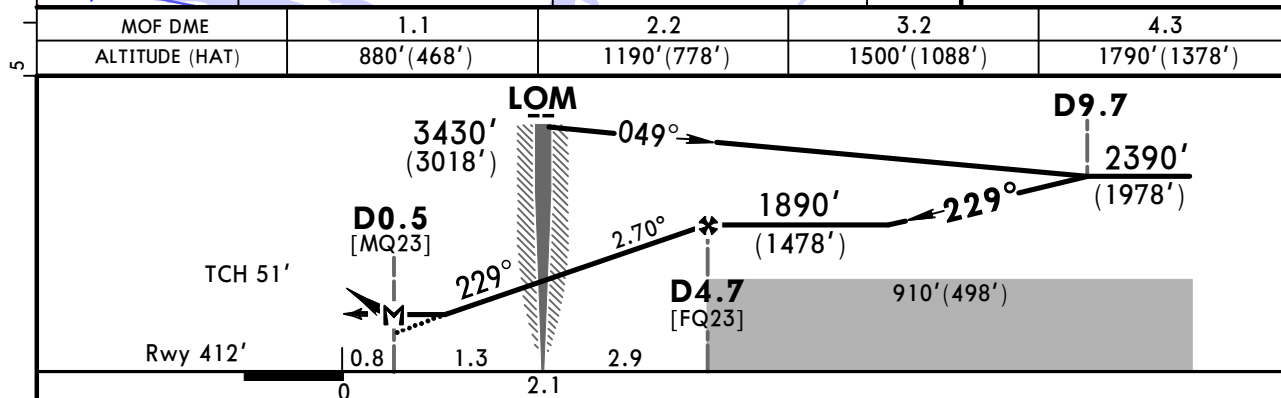
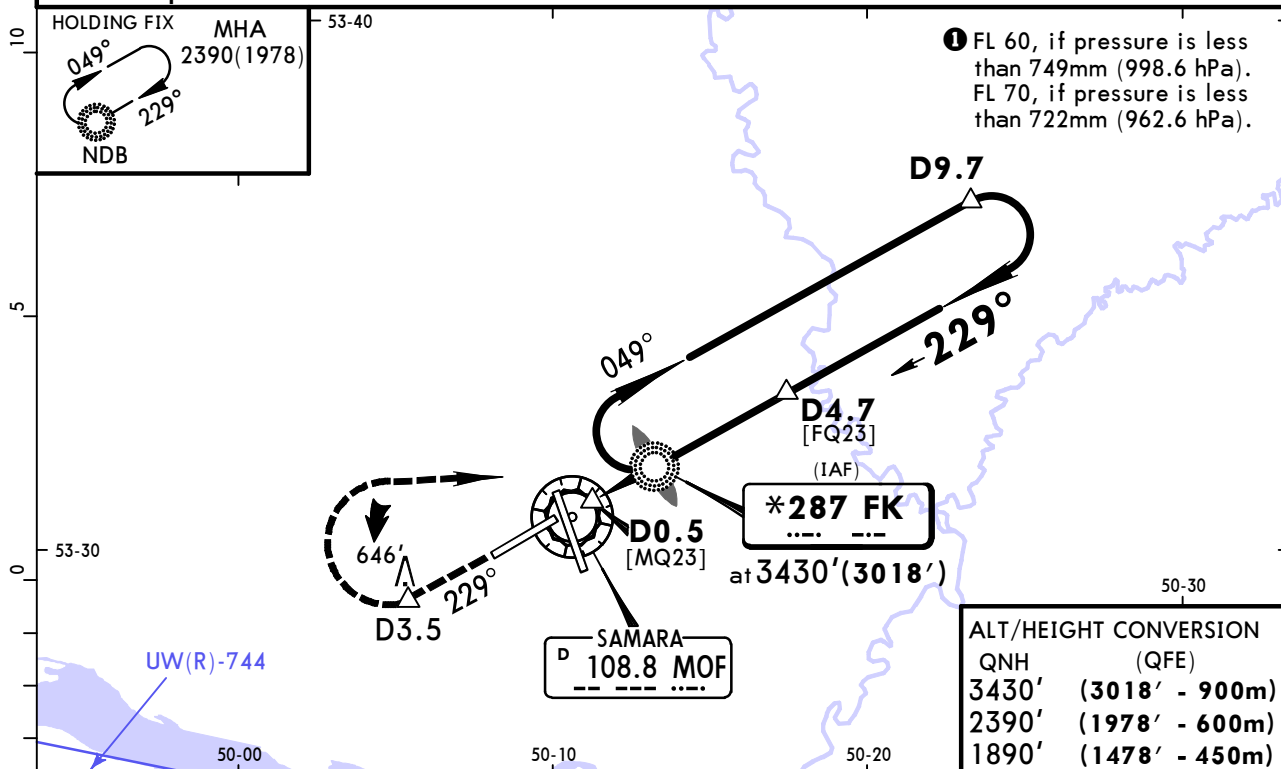
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1 DEC 17 **(16-7)** **Eff 7 Dec**

SAMARA, RUSSIA
NDB Rwy 23

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
NDB FK *287	Final Apch Crs 229°	Procedure Alt D4.7 1890' (1478')	MDA(H) Refer to Minimums	Appt Elev 476' Rwy 412'
MISSED APCH: Climb STRAIGHT AHEAD to D3.5, then turn RIGHT to NDB climbing to 2390' (1978') or above or as directed.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3018') 1. DME required 2. Procedure restricted to MAX 225 KT.				



Gnd speed-Kts	70	90	100	120	140	160		HIALS			
Descent Angle	2.70°	334	430	478	573	669	764	PAPI	D3.5	MM 2390' (1978')	FK 287
MAP at D0.5											

STRAIGHT-IN LANDING RWY 23				CIRCLE-TO-LAND			
MDA(H) AB: 720' (308') C: 730' (318') D: 740' (328')							
ALS out				Max Kts	MDA(H)		
A				100	940' (464')	1500m	
B	1200m			135	970' (494')	1600m	
C				180	1090' (614')	2800m	
D	RVR 1500m VIS 1600m			205	1190' (714')	3600m	

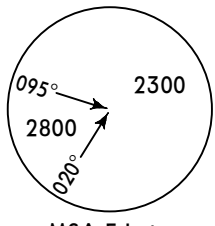
CHANGES: New procedure.

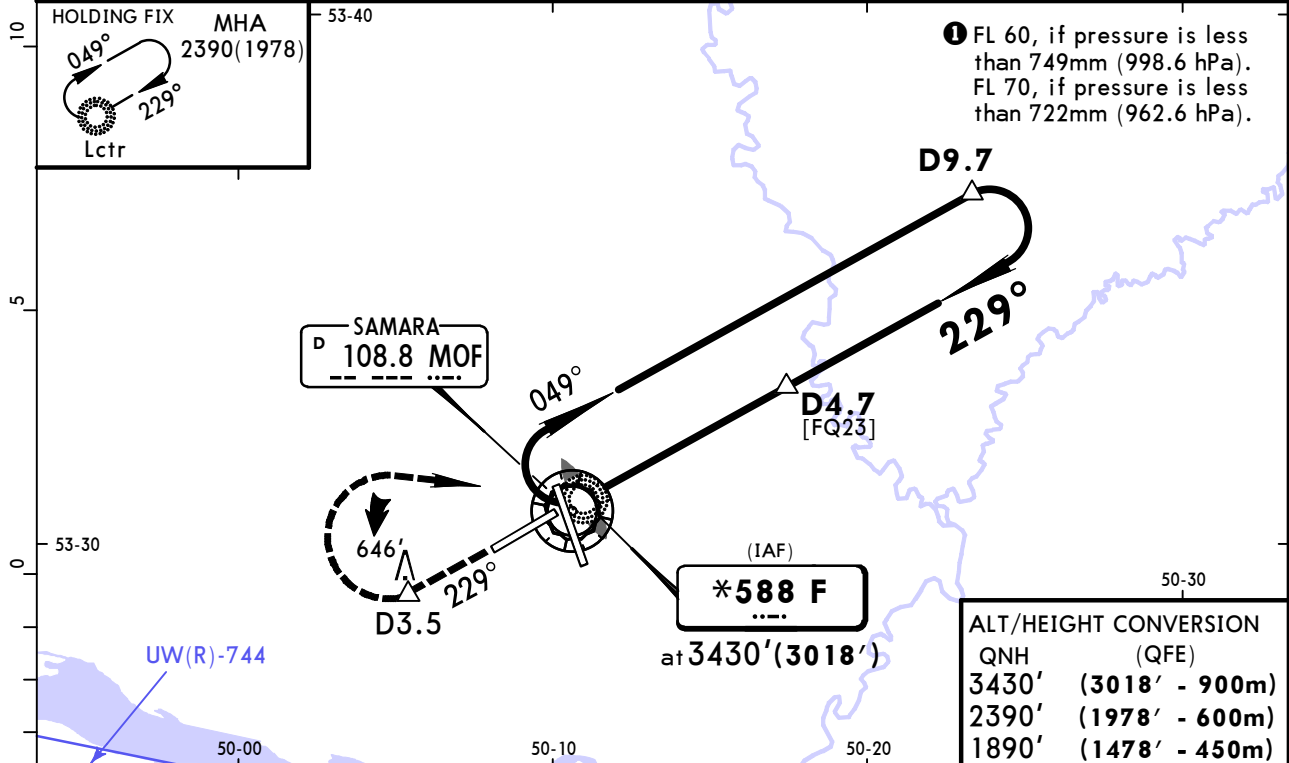
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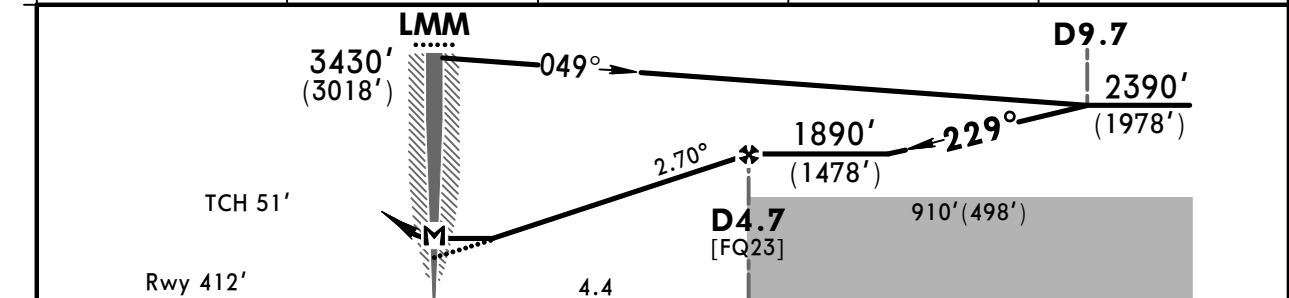
JEPPESEN
1 DEC 17 **16-8** Eff 7 Dec

SAMARA, RUSSIA
NDB Y Rwy 23

BRIEFING STRIP™	ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
	134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
	Lctr F *588	Final Apch Crs 229°	Procedure Alt D4.7 1890' (1478')	MDA(H) Refer to Minimums	Appt Elev 476' Rwy 412'
MISSED APCH: Climb STRAIGHT AHEAD to D3.5, then turn RIGHT to Lctr climbing to 2390' (1978') or above or as directed.					
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3018')					
1. DME required 2. Procedure restricted to MAX 225 KT.					



MOF DME	1.1	2.2	3.2	4.3
ALTITUDE (HAT)	880' (468')	1190' (778')	1500' (1088')	1790' (1378')



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 2.70°	334	430	478	573	669	764
MAP at LMM						

HIALS	D3.5	MM	F
PAPI	↑	2390' (1978')	588
		RT	

STRAIGHT-IN LANDING RWY 23			CIRCLE-TO-LAND		
MDA(H) ABC: 720' (308') D: 730' (318')					
ALS out		Max Kts	MDA(H)		
A		100	940' (464')		1500m
B	1200m	135	970' (494')		1600m
C		180	1090' (614')		2800m
D	RVR 1500m VIS 1600m	205	1190' (714')		3600m
RVR 1500m VIS 1600m					

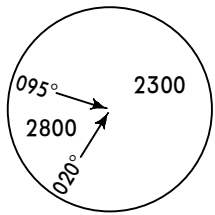
CHANGES: New procedure.

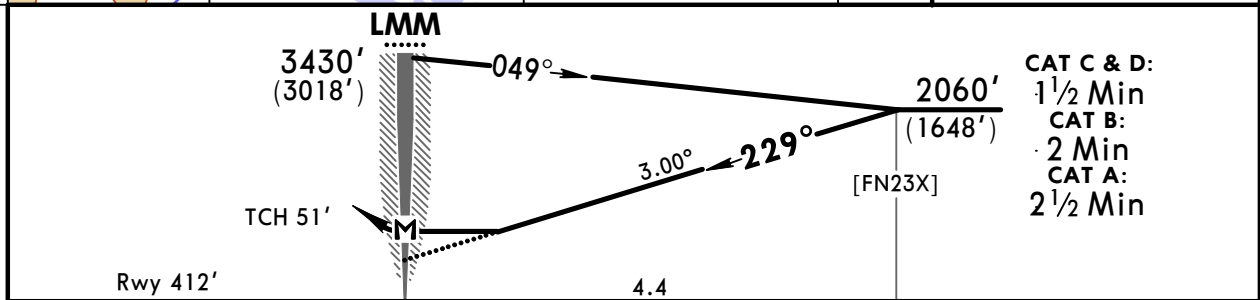
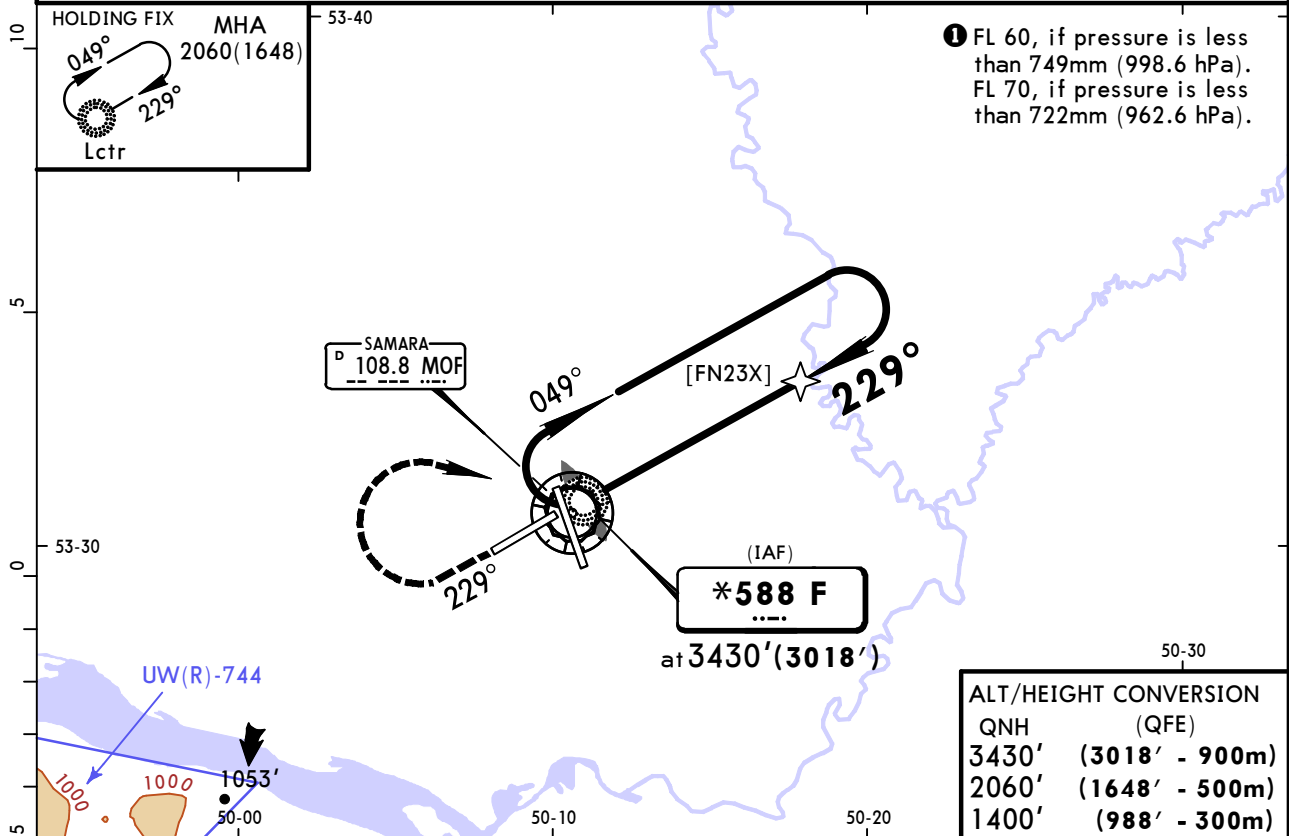
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JEPPESEN
1 DEC 17 **16-9** Eff 7 Dec

SAMARA, RUSSIA
NDB X Rwy 23

BRIEFING STRIP™	ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
	134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
	Lctr F *588	Final Apch Crs 229°	No FAF	MDA(H) 770'(358')	Appt Elev 476' Rwy 412'
MISSED APCH: Climb STRAIGHT AHEAD to 1400'(988') or above, then turn RIGHT to Lctr climbing to 2060'(1648') or above or as directed.					 MSA F Lctr
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3018')					
Procedure restricted to MAX 225 KT.					



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	MIM 1400' (988')	F 588 RT	MIM 2060' (1648')
Descent Angle	3.00°	372	478	531	637	743				
MAP at LMM										

STRAIGHT-IN LANDING RWY 23				CIRCLE-TO-LAND			
MDA(H) 770'(358')							
ALS out				Max Kts	MDA(H)		
A				100	940'(464')		1500m
B	1200m			135	970'(494')		1600m
C				180	1090'(614')		2800m
D	RVR 1500m VIS 1600m			205	1190'(714')		3600m

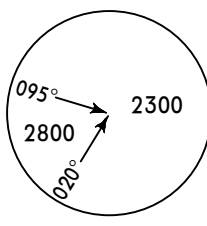
CHANGES: New procedure.

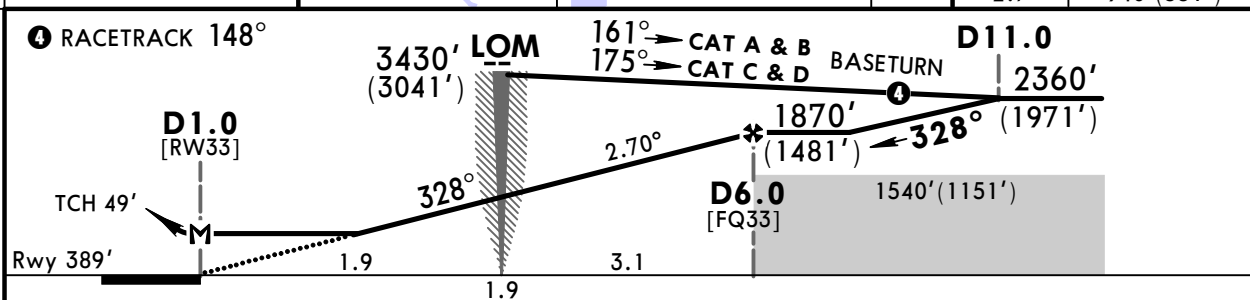
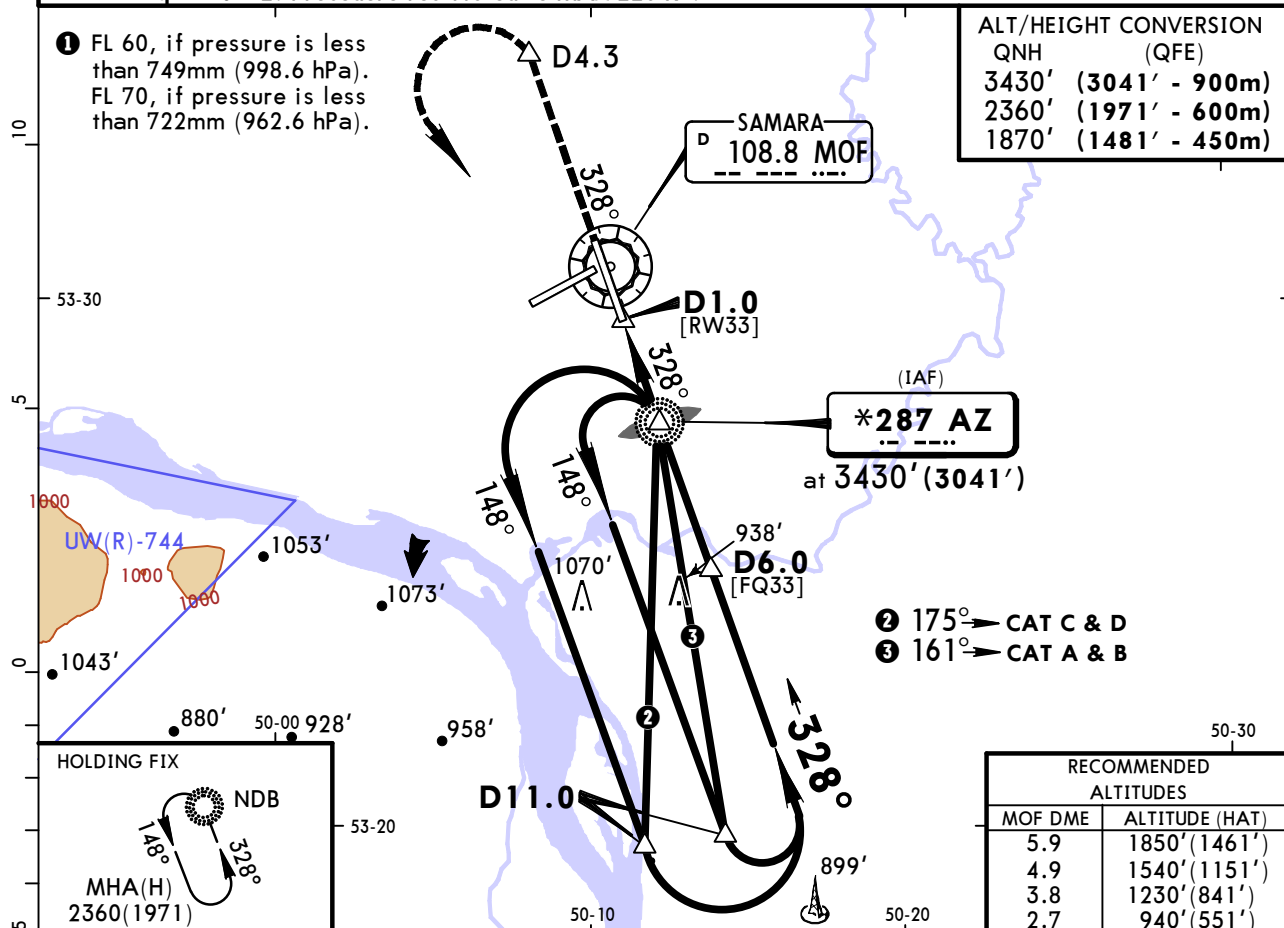
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JEPPESEN
1 DEC 17 **16-10** Eff 7 Dec

SAMARA, RUSSIA
NDB Rwy 33

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
NDB AZ *287	Final Apch Crs 328°	Procedure ALT D6.0 1870' (1481')	MDA(H) 790' (401') Apt Elev 476' Rwy 389'	
MISSED APCH: Climb STRAIGHT AHEAD to D4.3, then turn LEFT to NDB climbing to 2360' (1971') or above, or as directed.				MSA AZ NDB
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 50 ①
1 DME required.		2. Procedure restricted to MAX 220 KT.		Trans alt: 3430' (3041')



Gnd speed-Kts	70	90	100	120	140	160	HIALS	D4.3	AZ 287	MIM 2360' (1971')
Descent Angle	2.70°	334	430	478	573	669	PAPI	↑	LT	↑
MAP at D1.0										

STRAIGHT-IN LANDING RWY 33				CIRCLE-TO-LAND		
MDA(H) 790'(401')				Max Kts	MDA(H)	
ALS out						
PANS OPS	A	1200m	RVR 1500m VIS 1600m	100	940'(464)'	1600m
	B			135	970'(494)'	1600m
	C		RVR 1800m VIS 2000m	180	1090'(614)'	2800m
	D	RVR 1500m VIS 1600m		205	1190'(714)'	3600m

CHANGES: New procedure.

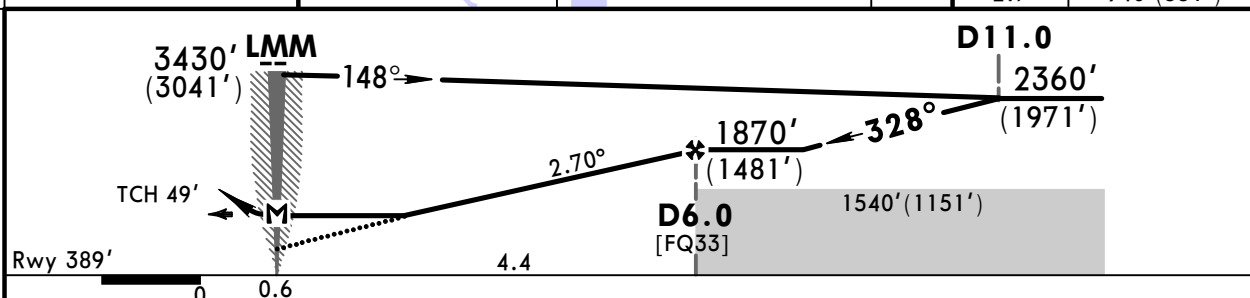
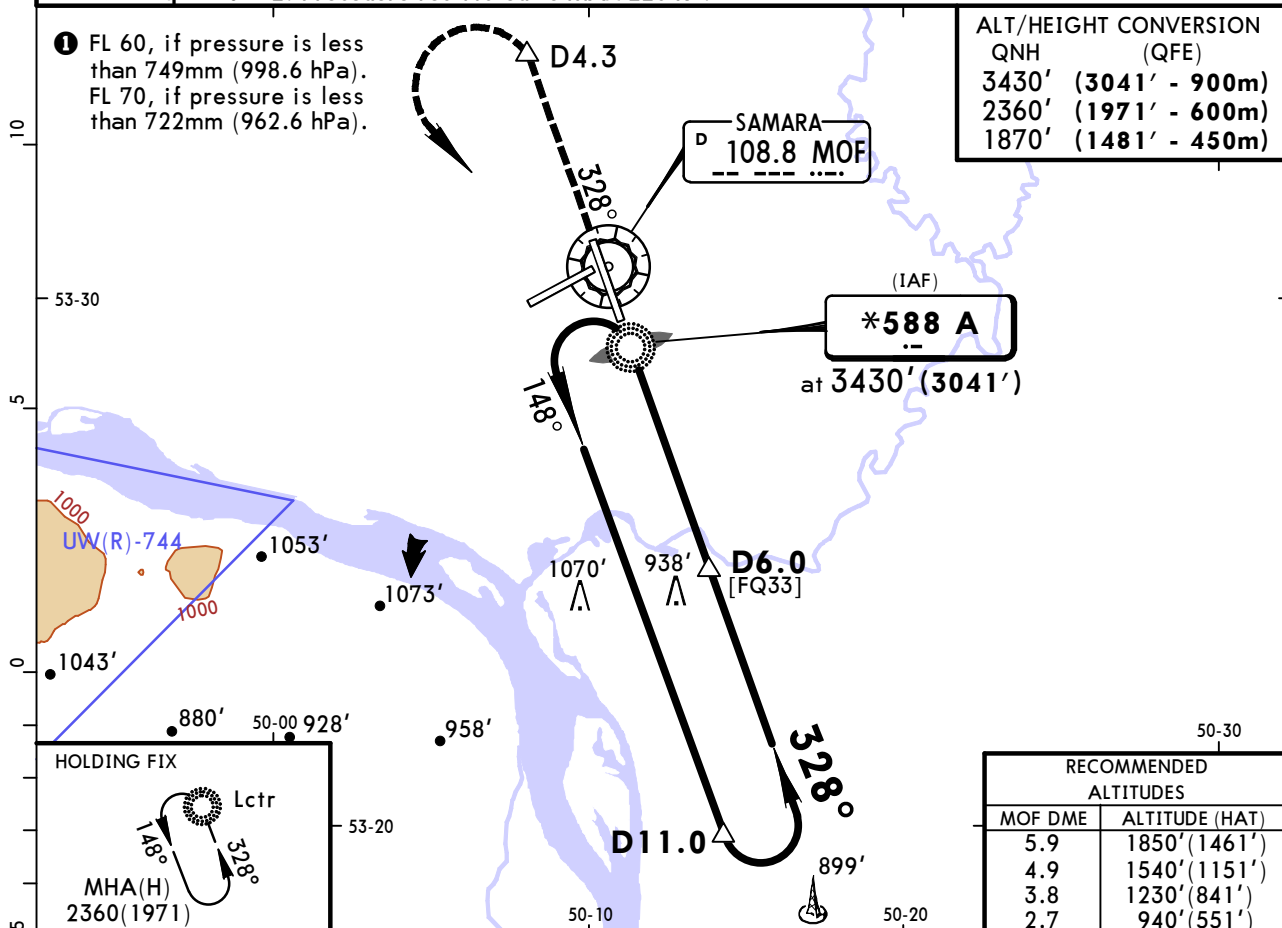
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JEPPESEN
1 DEC 17 **16-11** **Eff 7 Dec**

SAMARA, RUSSIA
NDB Y Rwy 33

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
Lctr A *588	Final Apch Crs 328°	Procedure ALT D6.0 1870' (1481')	MDA(H) 790' (401')	Apt Elev 476' Rwy 389'
MISSED APCH: Climb STRAIGHT AHEAD to D4.3, then turn LEFT to Lctr climbing to 2360' (1971') or above, or as directed.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 50 ① Trans alt: 3430' (3041') 1. DME required. 2. Procedure restricted to MAX 220 KT.				



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 2.70°	334	430	478	573	669	764
MAP at LMM						

STRAIGHT-IN LANDING RWY 33				CIRCLE-TO-LAND			
MDA(H) 790' (401')							
				Max Kts	MDA(H)		
A				100	940' (464)'	1600m	
B				135	970' (494)'	1600m	
C				180	1090' (614)'	2800m	
D				205	1190' (714)'	3600m	

CHANGES: New procedure.

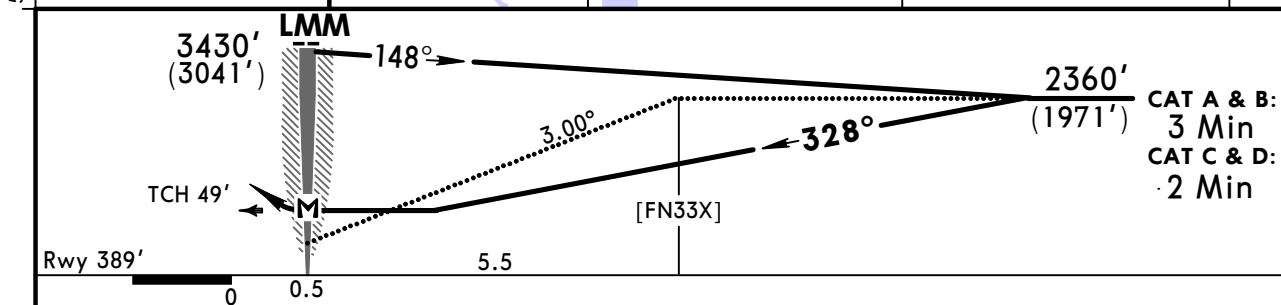
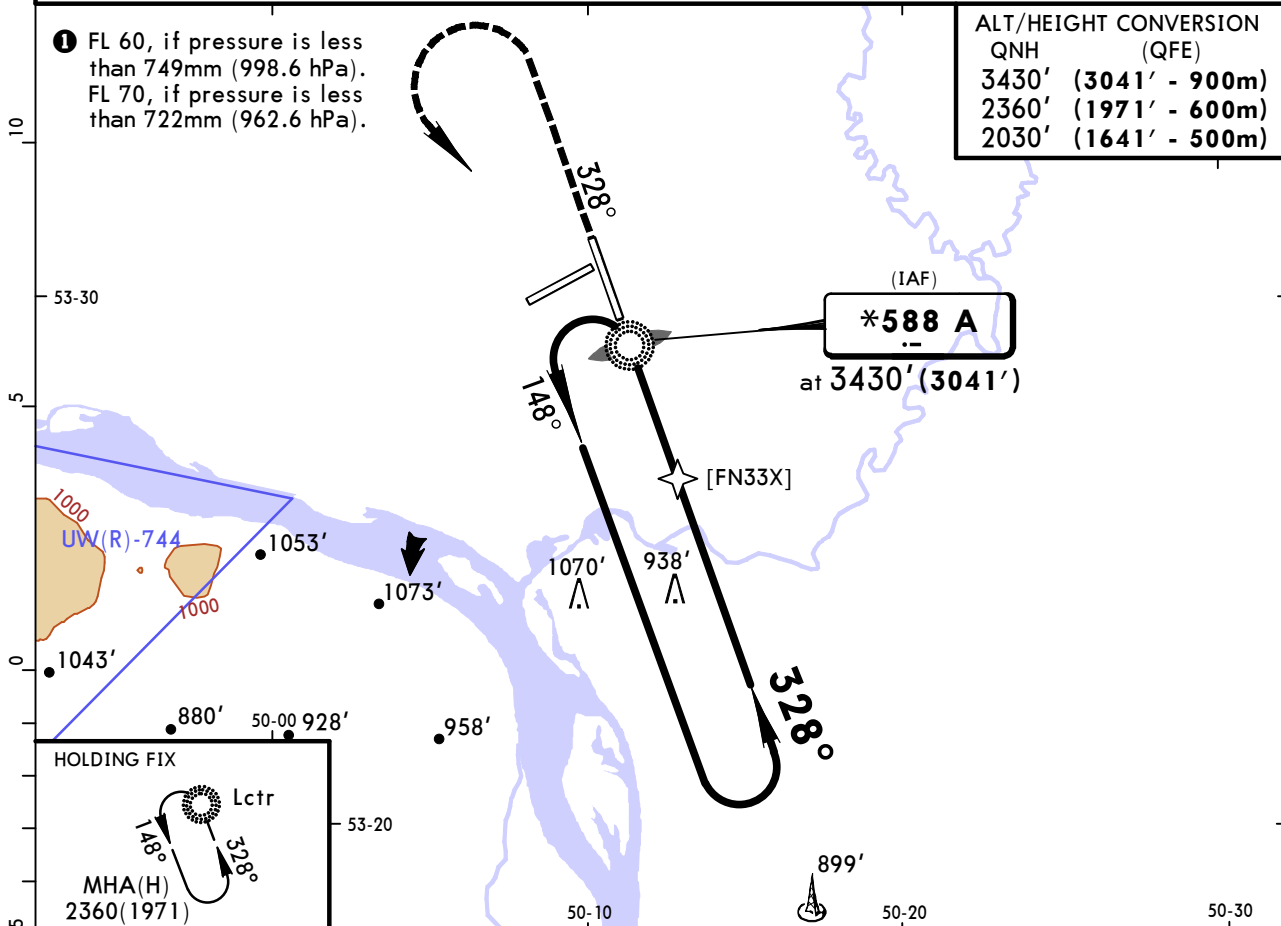
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JEPPESEN
1 DEC 17 **16-12** **Eff 7 Dec**

SAMARA, RUSSIA
NDB X Rwy 33

ATIS	SAMARA Approach	SAMARA Radar	SAMARA Tower	Ground
134.1 (Russian 134.9)	124.6	128.0	118.2	119.0
Lctr A *588	Final Apch Crs 328°	No FAF	MDA(H) 1350'(961')	Apt Elev 476' Rwy 389'
MISSED APCH: Climb STRAIGHT AHEAD to 2030'(1641') or above, then turn LEFT to Lctr climbing to 2360'(1971') or above, or as directed.				
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 50 ①
Procedure restricted to MAX 220 KT.		Trans alt: 3430' (3041')		



Gnd speed-Kts	70	90	100	120	140	160		HIALS	MIM 2030' (1641')	A 588	MIM 2360' (1971')
Descent Angle 3.00°	372	478	531	637	743	849		PAPI		LT	
MAP at LMM											

STRAIGHT-IN LANDING RWY 33				CIRCLE-TO-LAND			
MDA(H) 1350'(961')							
ALS out				Max Kts	MDA(H)		
A	1200m		RVR 1800m VIS 2000m	100	1430'(954)'	2000m	
B	RVR 1500m VIS 1600m		2400m	135	1430'(954)'	2400m	
C			4800m	180	1430'(954)'	4800m	
D				205			

CHANGES: New procedure.

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Chart changes since cycle 08-2019

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

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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SAMARA, (KURUMOCH - UWWW)

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport UWWW