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Airport Information For URMM

Terminal Charts For URMM

Revision Letter For Cycle 09-2019

Change Notices

Notebook

General Information

Location: MINERALNYYE VODY RUS

ICAO/IATA: URMM / MRV

Lat/Long: N44° 13.6', E043° 05.0'

Elevation: 1047 ft

Airport Use: Public

Daylight Savings: Not Observed

UTC Conversion: -3:00 = UTC

Magnetic Variation: 7.0° E

Fuel Types: Jet A-1

Repair Types: Minor Airframe, Minor Engine

Customs: Yes

Airport Type: IFR

Landing Fee: Yes

Control Tower: Yes

Jet Start Unit: No

LLWS Alert: No

Beacon: No

Sunrise: 0147 Z

Sunset: 1621 Z

Runway Information

Runway: 12

Length x Width: 12795 ft x 197 ft

Surface Type: concrete

TDZ-Elev: 1037 ft

Lighting: Edge, ALS, Centerline, TDZ

Runway: 30

Length x Width: 12795 ft x 197 ft

Surface Type: concrete

TDZ-Elev: 1047 ft

Lighting: Edge, ALS, Centerline

Communication Information

ATIS: 125.250

ATIS: 127.400 Non-English

Mineralnyye Vody Start Tower: 124.000 Secondary

Mineralnyye Vody Start Tower: 128.000

Mineralnyye Vody Start Tower: 129.000 Secondary

Mineralnyye Vody Taxiing Ground: 124.000 Secondary

Mineralnyye Vody Taxiing Ground: 121.900

Mineralnyye Vody Taxiing Ground: 129.000 Secondary

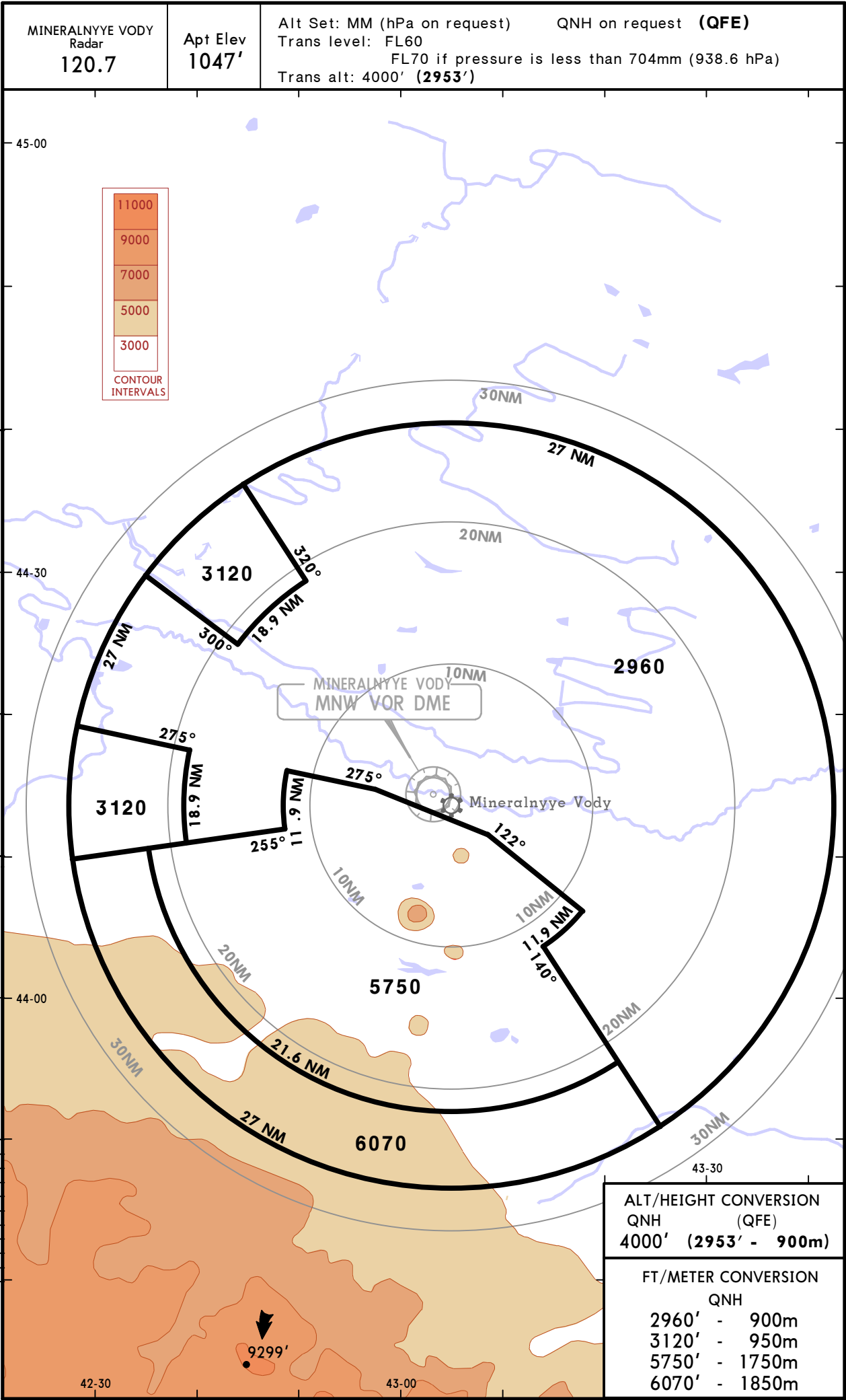
Mineralnyye Vody Zemlya Ramp/Taxi: 118.900
Mineralnyye Vody Approach: 119.300
Mineralnyye Vody Approach: 124.000 Secondary
Mineralnyye Vody Approach: 129.000 Secondary
Mineralnyye Vody Krug Radar: 120.700
Mineralnyye Vody Transit Operations: 118.000
Mineralnyye Vody Krug Radar: 124.000 Secondary
Mineralnyye Vody Krug Radar: 129.000 Secondary

URMM/MRV
MINERALNYYE VODY

31 JUL 15 (10-1R)

MINERALNYYE VODY, RUSSIA

RADAR MINIMUM ALTITUDES



URMM/MRV
MINERALNYE VODY

17 JUL 15

10-2

Eff 23 Jul

JEPPESEN MINERALNYE VODY, RUSSIA

RNAV STAR

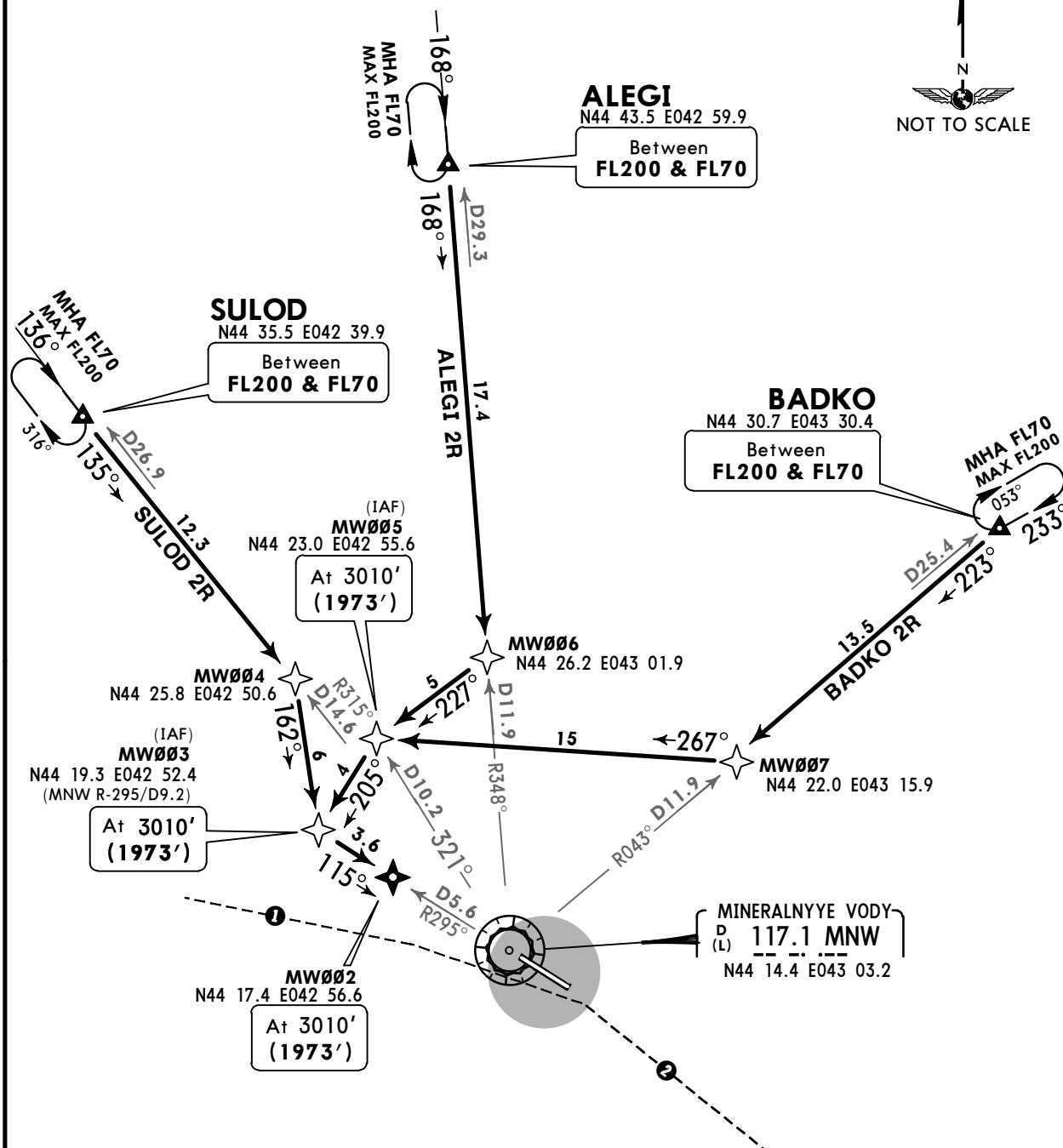
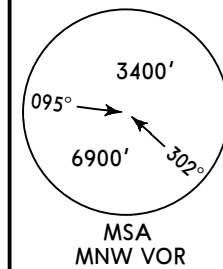
ATIS
125.25 (Russian 127.4)

Apt Elev
1047'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 704mm (938.6 hPa)
Trans alt: 4000' (2963')

ALEGI 2R [ALEG2R]
BADKO 2R [BADK2R]
SULOD 2R [SULO2R]
RWY 12 RNAV ARRIVALS
RNAV (GNSS)

SPEED: MAX 250 KT BELOW FL100



- 095° to ARP between 11.3 NM and 5.1 NM do not fly SOUTH below FL60.
- 302° to ARP between 12.1 NM and 1.9 NM do not fly SOUTH below FL60.

ALT/HEIGHT CONVERSION	
QNH	(QFE)
4000'	(2963' - 900m)
3010'	(1973' - 600m)

URMM/MRV
MINERALNYYE VODY



JEPPESSEN MINERALNYYE VODY, RUSSIA

17 JUL 15

10-2A

Eff 23 Jul

RNAV STAR

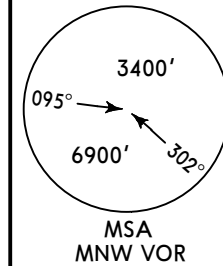
ATIS
125.25 (Russian 127.4)

Apt Elev
1047'

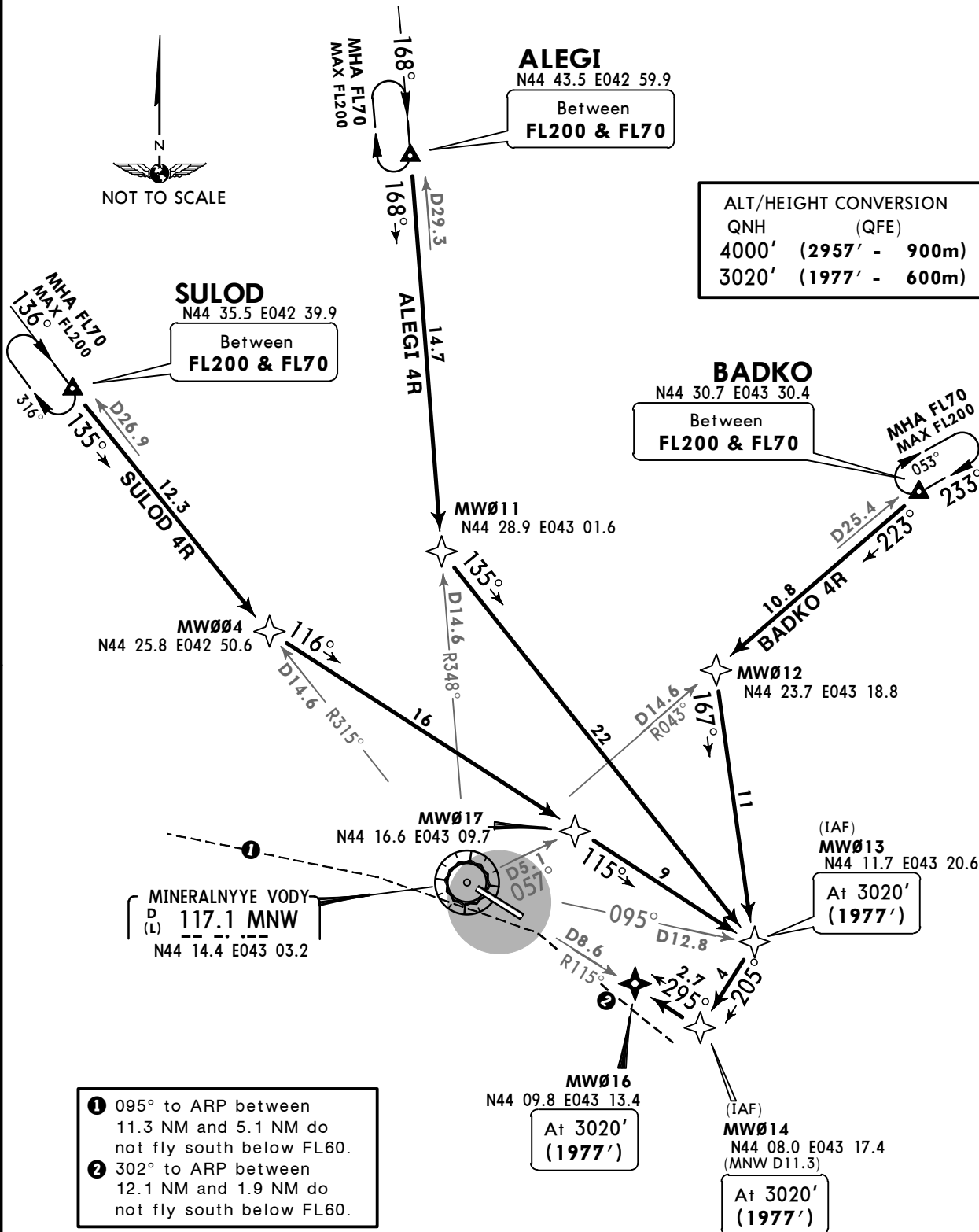
Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 704mm (938.6 hPa)
Trans alt: 4000' (2957')

ALEGI 4R [ALEG4R]
BADKO 4R [BADK4R]
SULOD 4R [SULO4R]
RWY 30 RNAV ARRIVALS
RNAV (GNSS)

SPEED: MAX 250 KT BELOW FL100



ALT/HEIGHT CONVERSION
QNH (QFE)
4000' (2957' - 900m)
3020' (1977' - 600m)



URMM/MRV
MINERALNYYE VODY

17 JUL 15

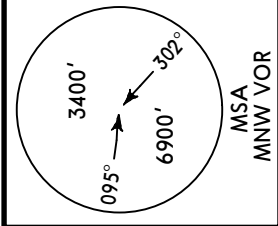
10-2B

Eff 23 Jul

JEPPESSEN MINERALNYYE VODY, RUSSIA

RNAV STAR

ATIS 125.25 (Russian 127.4)	Apt Elev 1047'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704mm (938.6 hPa) Trans alt: 4000' (2963')
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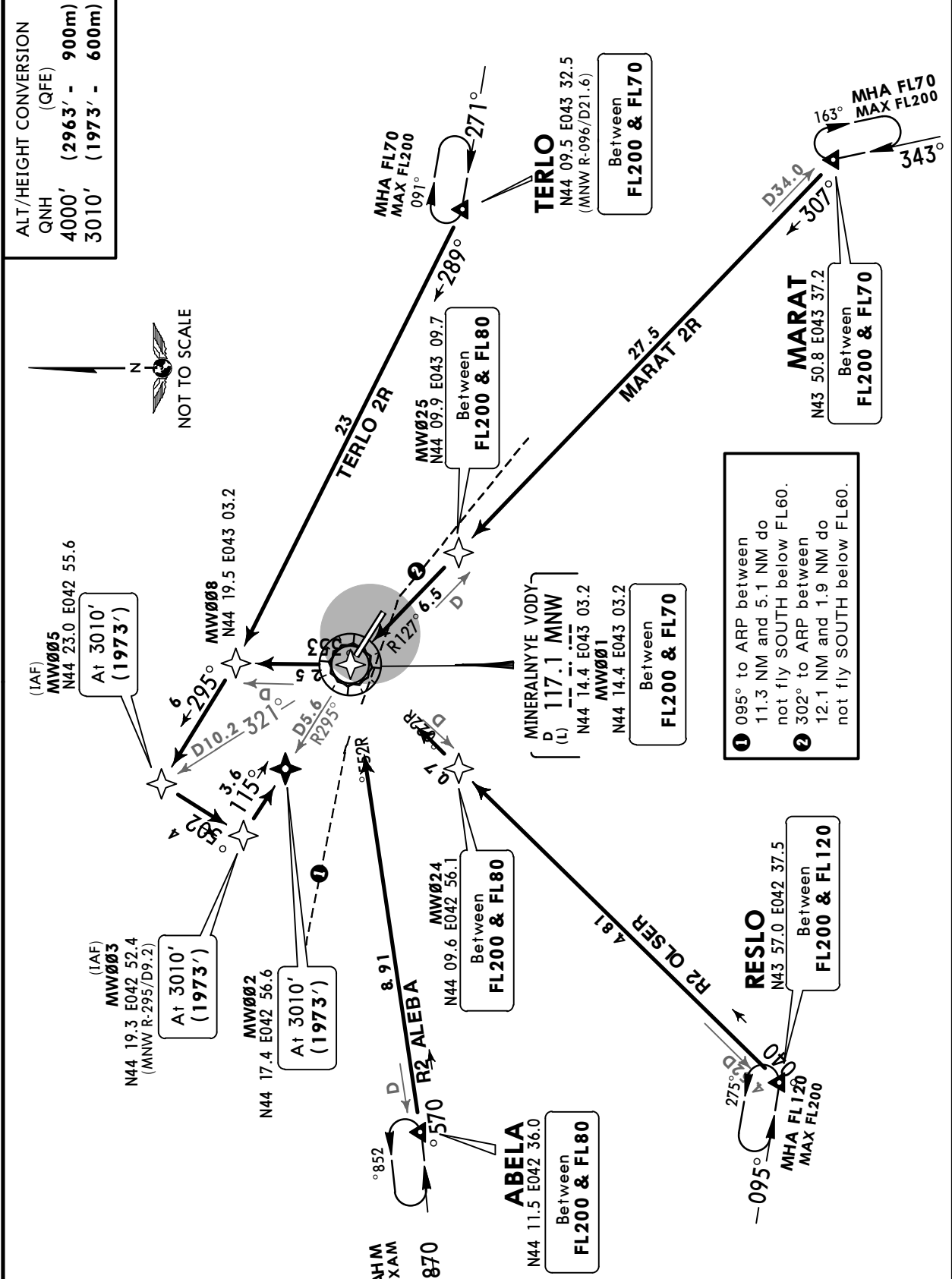


ABELA 2R [ABEL2R], MARAT 2R [MARA2R]
RESLO 2R [RESL2R], TERLO 2R [TERL2R]
RWY 12 RNAV ARRIVALS
RNAV (GNSS)

SPEED: MAX 250 KT BELOW FL100

ALT/HEIGHT CONVERSION

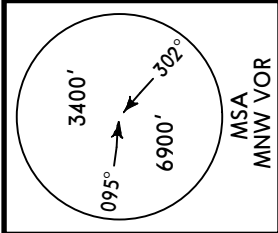
QNH	(QFE)
4000'	(2963' - 900m)
3010'	(1973' - 600m)



URMM/MRV
MINERALNYYE VODY

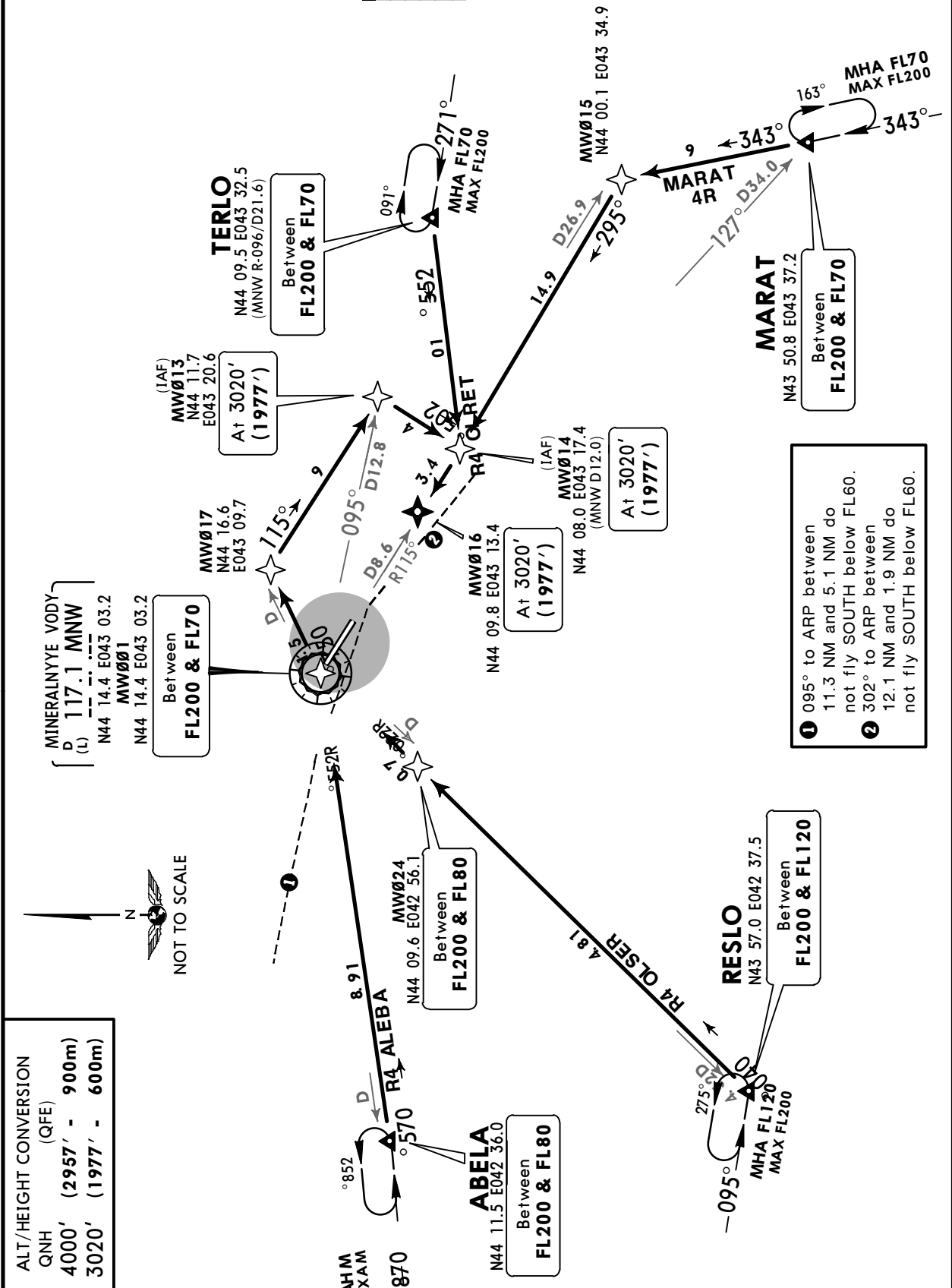
17 JUL 15 10-2C Eff 23 Jul RNAV STAR

ATIS 125.25 (Russian 127.4)	Apt Elev 1047'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704mm (938.6 hPa) Trans alt: 4000' (2957')
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ABELA 4R [ABEL4R], MARAT 4R [MARA4R]
RESLO 4R [RESL4R], TERLO 4R [TERL4R]
RWY 30 RNAV ARRIVALS
RNAV (GNSS)

SPEED: MAX 250 KT BELOW FL100



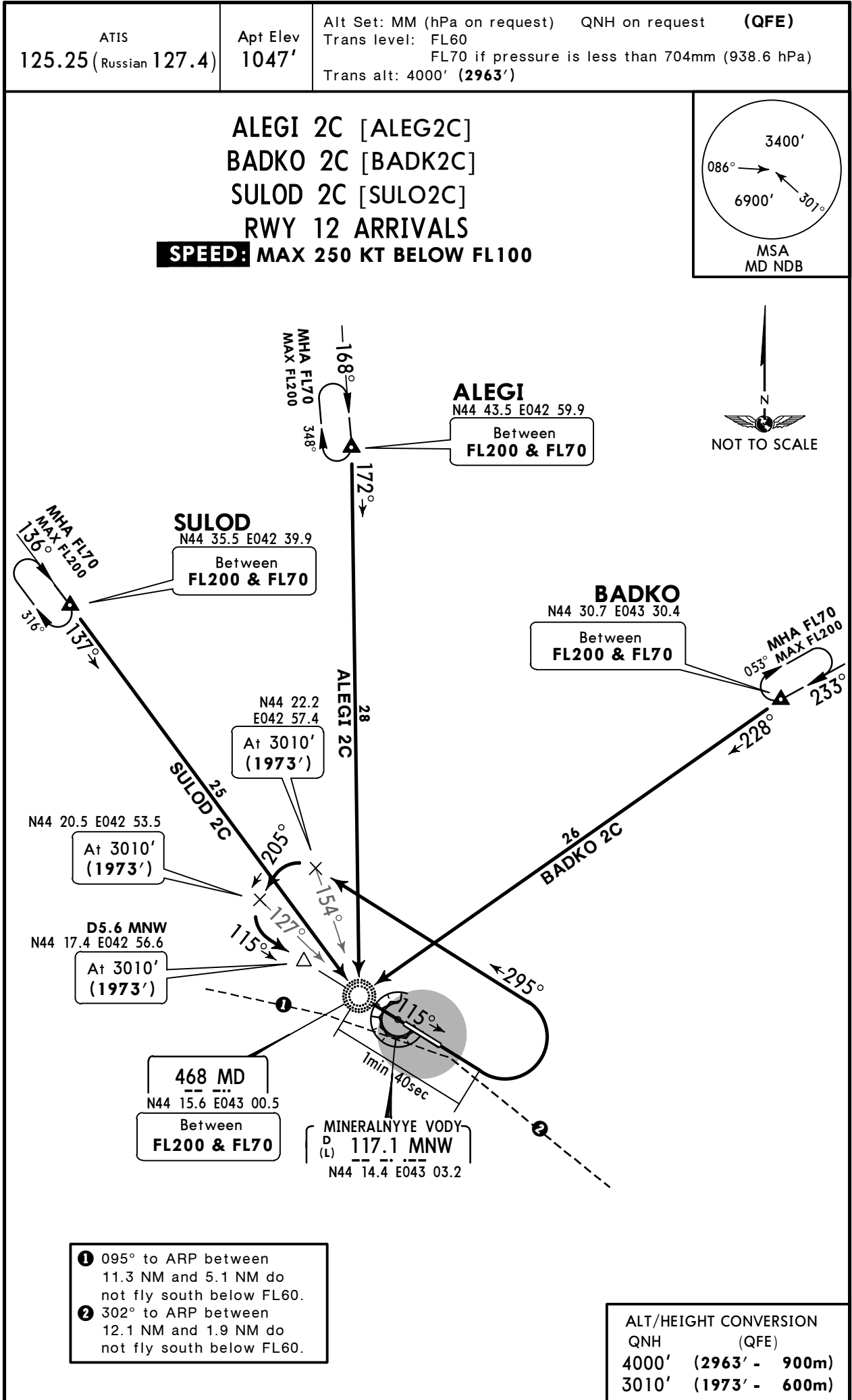
ALT/HEIGHT CONVERSION (QFE)

4000'	(2957' - 900m)
3020'	(1977' - 600m)

URMM/MRV
MINERALNYYE VODY

 **JEPPESSEN** MINERALNYYE VODY, RUSSIA

17 JUL 15 **10-2D** **Eff 23 Jul** **STAR**



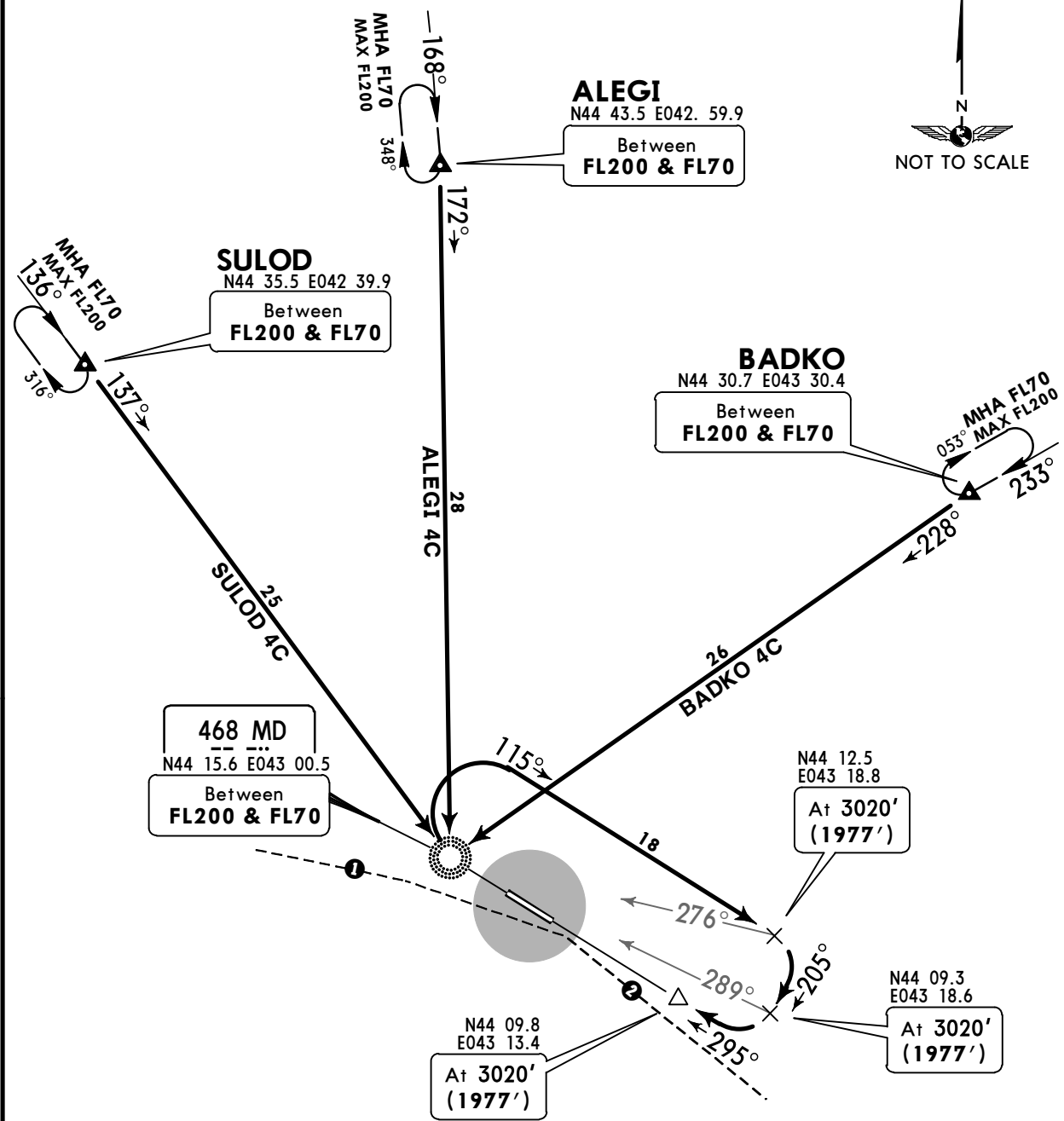
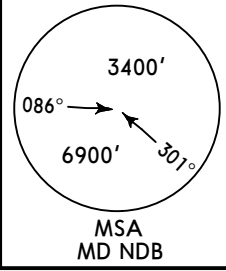
URMM/MRV
MINERALNYYE VODY

JEPPESSEN MINERALNYYE VODY, RUSSIA
17 JUL 15 **10-2E** **Eff 23 Jul** **STAR**

ATIS 125.25 (Russian 127.4)	Apt Elev 1047'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704mm (938.6 hPa) Trans alt: 4000' (2957')
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ALEGI 4C [ALEG4C]
BADKO 4C [BADK4C]
SULOD 4C [SULO4C]
RWY 30 ARRIVALS

SPEED: MAX 250 KT BELOW FL100



- ① 095° to ARP between 11.3 NM and 5.1 NM do not fly south below FL60.
- ② 302° to ARP between 12.1 NM and 1.9 NM do not fly south below FL60.

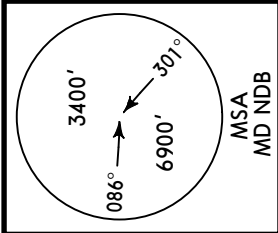
ALT/HEIGHT CONVERSION	
QNH	(QFE)
4000' (2957' - 900m)	
3020' (1977' - 600m)	

URMM/MRV
MINERALNYYE VODY

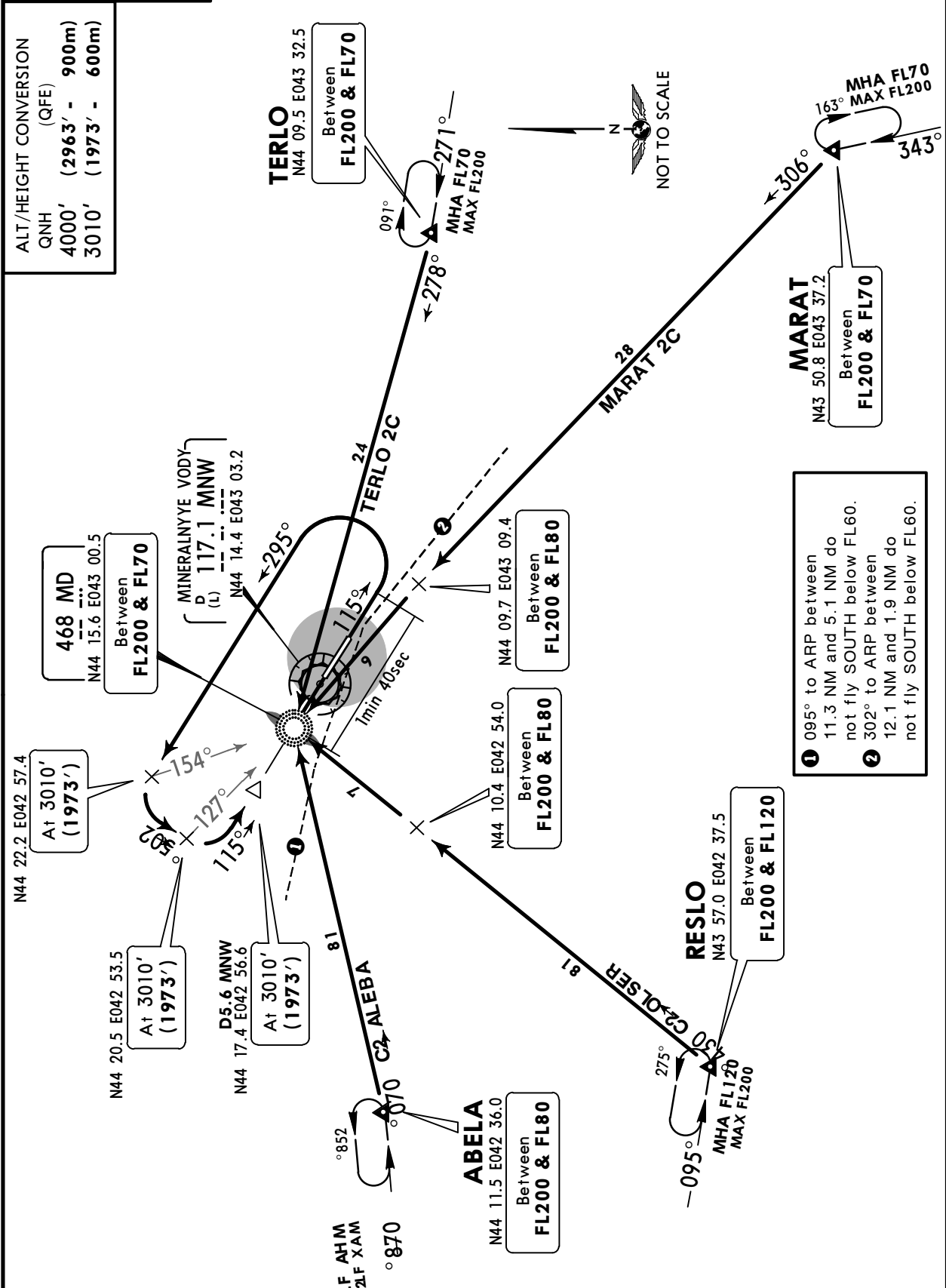
JEPPESSEN MINERALNYYE VODY, RUSSIA

17 JUL 15 10-2F Eff 23 Jul STAR

ATIS 125.25 (Russian 127.4)	Apt Elev 1047'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704mm (938.6 hPa) Trans alt: 4000' (2963')
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ABELA 2C [ABEL2C], MARAT 2C [MARA2C]
RESLO 2C [RESL2C], TERLO 2C [TERL2C]
RWY 12 ARRIVALS
SPEED: MAX 250 KT BELOW FL100



URMM/MRV
MINERALNYYE VODY

17 JUL 15

10-2H

Eff 23 Jul

JEPPESEN MINERALNYYE VODY, RUSSIA

STAR

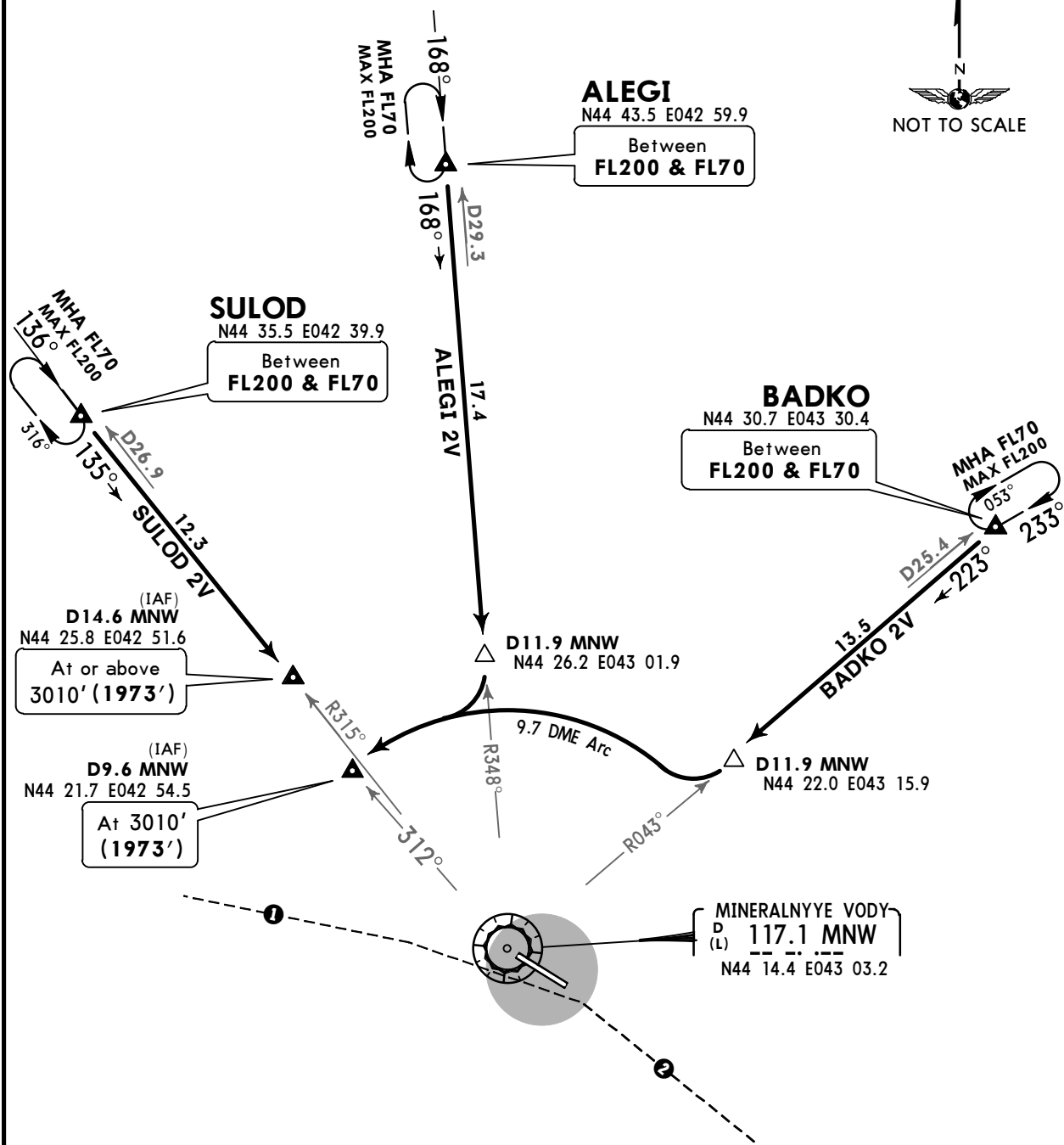
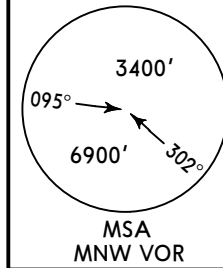
ATIS
125.25 (Russian 127.4)

Apt Elev
1047'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 704mm (938.6 hPa)
Trans alt: 4000' (2963')

ALEGI 2V [ALEG2V]
BADKO 2V [BADK2V]
SULOD 2V [SULO2V]
RWY 12 ARRIVALS

SPEED: MAX 250 KT BELOW FL100



- ① 095° to ARP between 11.3 NM and 5.1 NM do not fly south below FL60.
- ② 302° to ARP between 12.1 NM and 1.9 NM do not fly south below FL60.

ALT/HEIGHT CONVERSION	
QNH	(QFE)
4000'	(2963' - 900m)
3010'	(1973' - 600m)

URMM/MRV
MINERALNYYE VODY

17 JUL 15

10-2J

Eff 23 Jul

JEPPESSEN MINERALNYYE VODY, RUSSIA

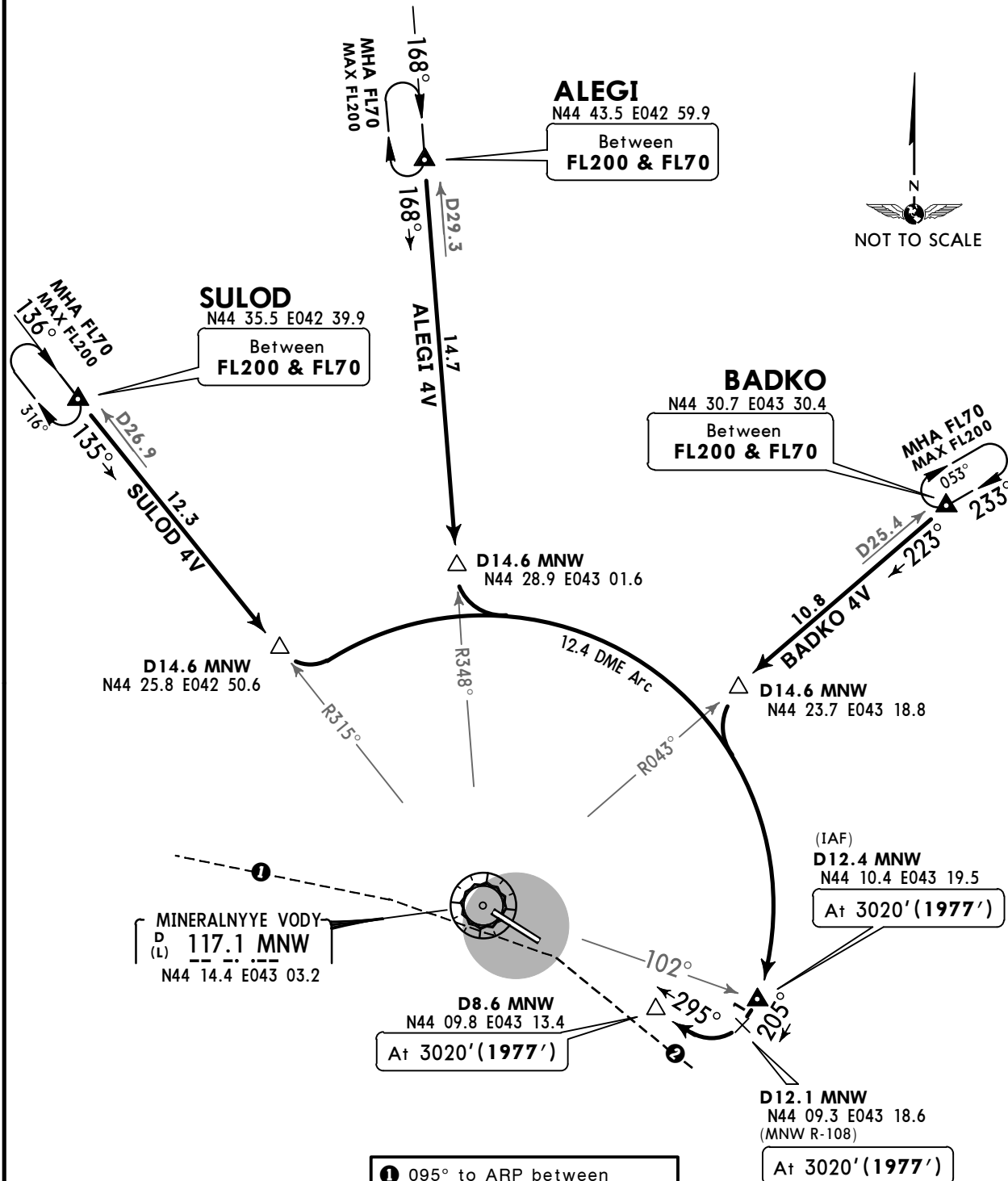
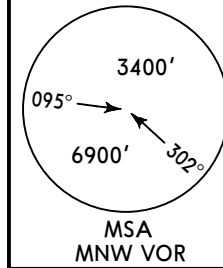
STAR

ATIS
125.25 (Russian 127.4)

Apt Elev
1047'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 704mm (938.6 hPa)
Trans alt: 4000' (2957')

ALEGI 4V [ALEG4V]
BADKO 4V [BADK4V]
SULOD 4V [SULO4V]
RWY 30 ARRIVALS
SPEED: MAX 250 KT BELOW FL100



ALT/HEIGHT CONVERSION
QNH (QFE)
4000' (2957' - 900m)
3020' (1977' - 600m)

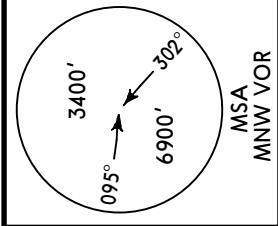
- 095° to ARP between 11.3 NM and 5.1 NM do not fly south below FL60.
- 302° to ARP between 12.1 NM and 1.9 NM do not fly south below FL60.

URMM/MRV
MINERALNYYE VODY

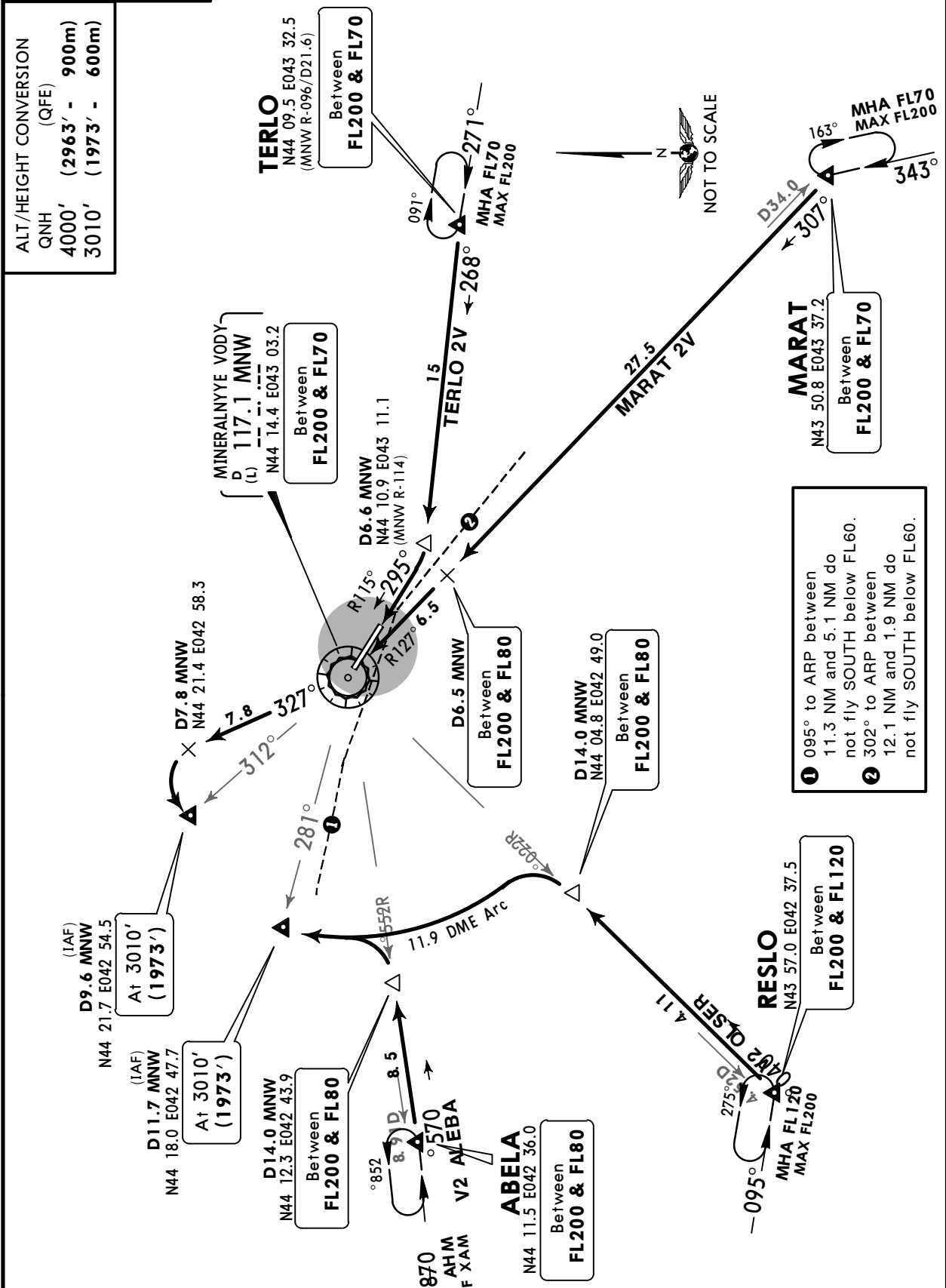
17 JUL 15 10-2K Eff 23 Jul STAR

JEPPESSEN MINERALNYYE VODY, RUSSIA

ATIS 125.25 (Russian 127.4)	Apt Elev 1047'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704mm (938.6 hPa) Trans alt: 4000' (2963')
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ABELA 2V [ABEL2V], MARAT 2V [MARA2V]
RESLO 2V [RESL2V], TERLO 2V [TERL2V]
RWY 12 ARRIVALS
SPEED: MAX 250 KT BELOW FL100



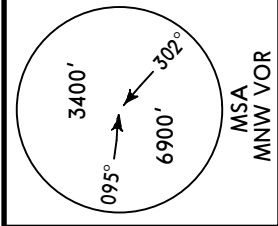
URMM/MRV
MINERALNYE VODY

17 JUL 15 10-2L

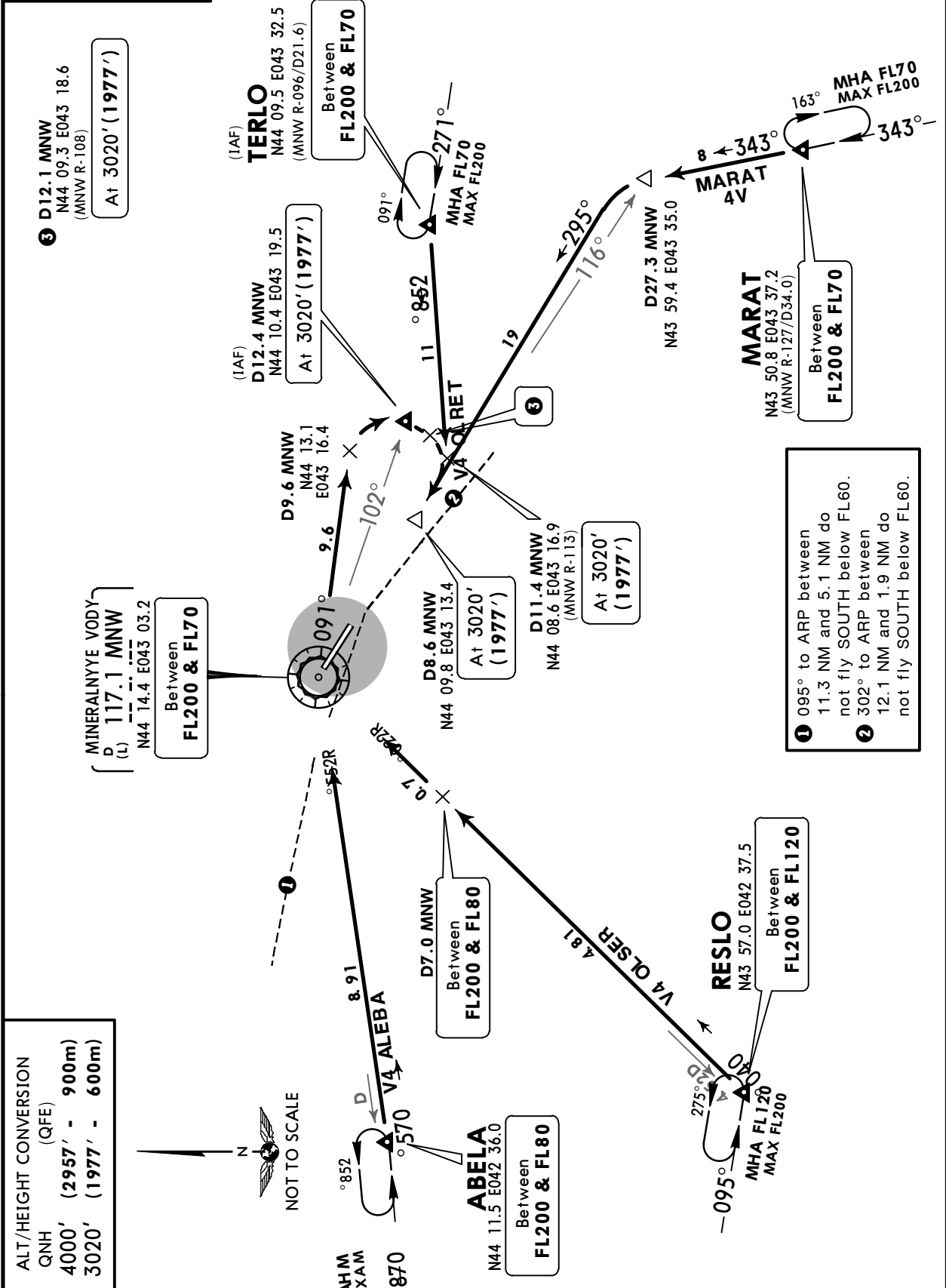
JEPPesen MINERALNYE VODY, RUSSIA
Eff 23 Jul

STAR

ATIS 125.25 (Russian 127.4)	Apt Elev 1047'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704mm (938.6 hPa) Trans alt: 4000' (2957')
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ABELA 4V [ABEL4V], MARAT 4V [MARA4V]
RESLO 4V [RESL4V], TERLO 4V [TERL4V]
RWY 30 ARRIVALS
SPEED: MAX 250 KT BELOW FL100

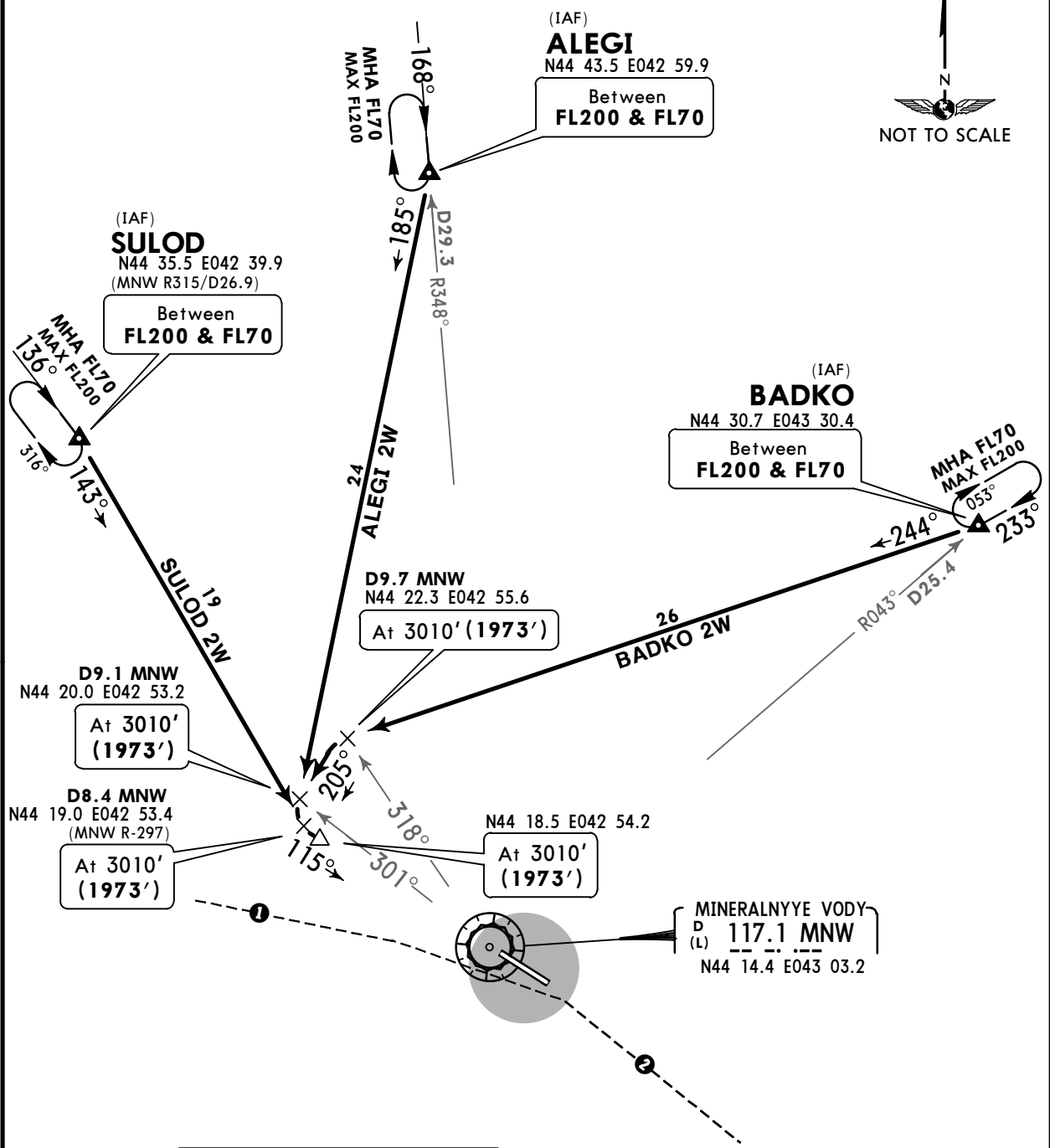
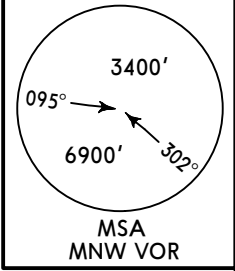


URMM/MRV
MINERALNYYE VODY

JEPPESSEN MINERALNYYE VODY, RUSSIA
17 JUL 15 **10-2M** **Eff 23 Jul** **STAR**

ATIS 125.25 (Russian 127.4)	Apt Elev 1047'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704mm (938.6 hPa) Trans alt: 4000' (2963')
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ALEGI 2W [ALEG2W]
BADKO 2W [BADK2W]
SULOD 2W [SULO2W]
RWY 12 ARRIVALS
UNDER RADAR CONTROL
SPEED: MAX 250 KT BELOW FL100



- ① 095° to ARP between 11.3 NM and 5.1 NM do not fly south below FL60.
- ② 302° to ARP between 12.1 NM and 1.9 NM do not fly south below FL60.

ALT/HEIGHT CONVERSION	
QNH	(QFE)
4000'	(2963' - 900m)
3010'	(1973' - 600m)

URMM/MRV
MINERALNYYE VODY

17 JUL 15

10-2N

Eff 23 Jul

JEPPESSEN MINERALNYYE VODY, RUSSIA

STAR

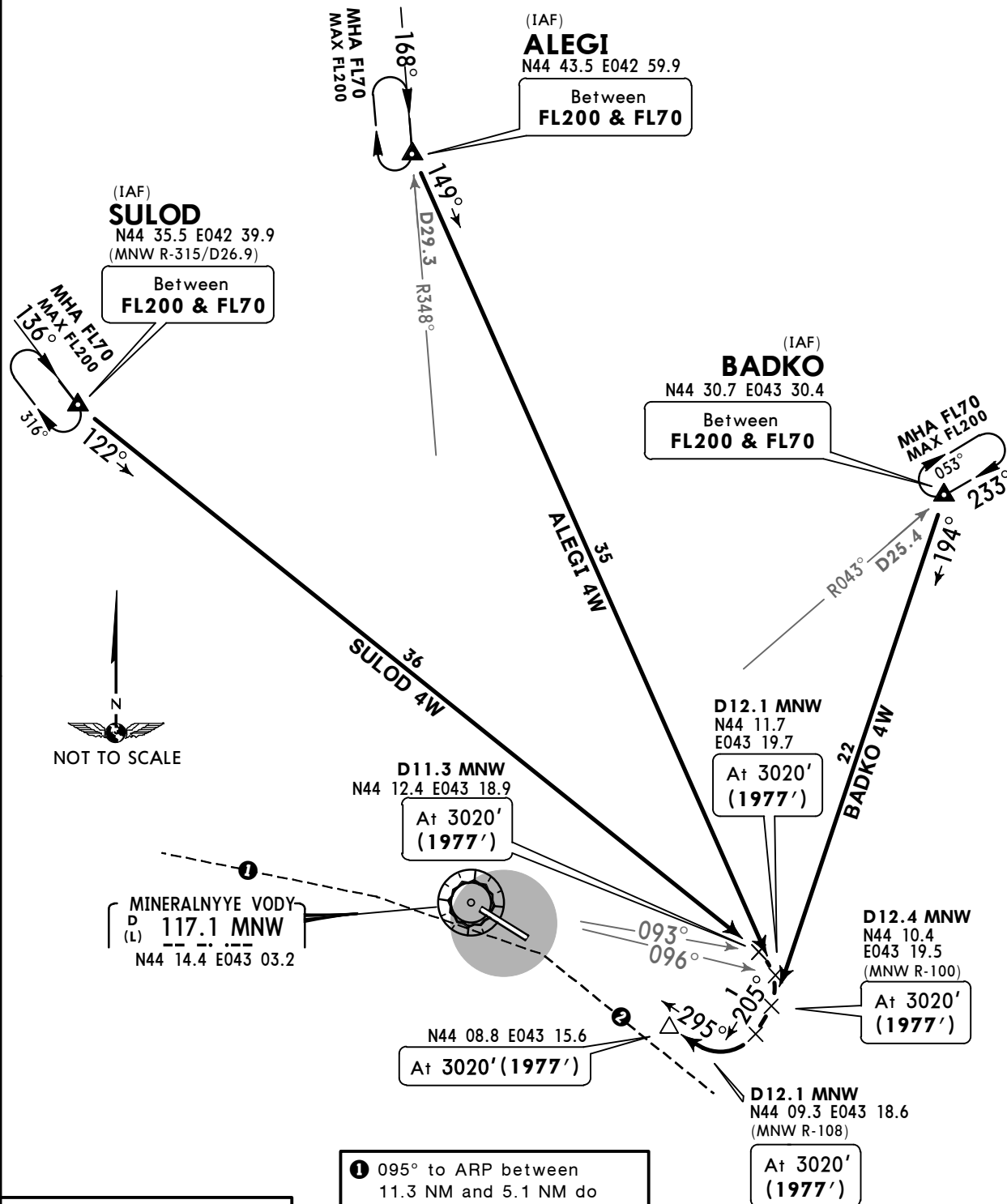
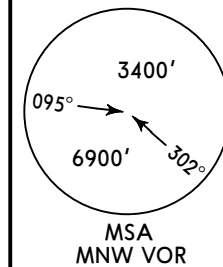
ATIS
125.25 (Russian 127.4)

Apt Elev
1047'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 704mm (938.6 hPa)
Trans alt: 4000' (2957')

ALEGI 4W [ALEG4W]
BADKO 4W [BADK4W]
SULOD 4W [SULO4W]
RWY 30 ARRIVALS
UNDER RADAR CONTROL

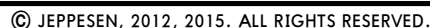
SPEED: MAX 250 KT BELOW FL100



ALT/HEIGHT CONVERSION
QNH (QFE)
4000' (2957' - 900m)
3020' (1977' - 600m)

- 095° to ARP between 11.3 NM and 5.1 NM do not fly south below FL60.
- 302° to ARP between 12.1 NM and 1.9 NM do not fly south below FL60.

Alt Set: MM (hPa on request) QNH on request **(QFE)**
Trans level: FL60
 FL70 if pressure is less than 704mm (938.6 hPa)
Trans alt: 4000' **(2963')**



URMM/MRV
MINERALNYYE VODY

17 JUL 15

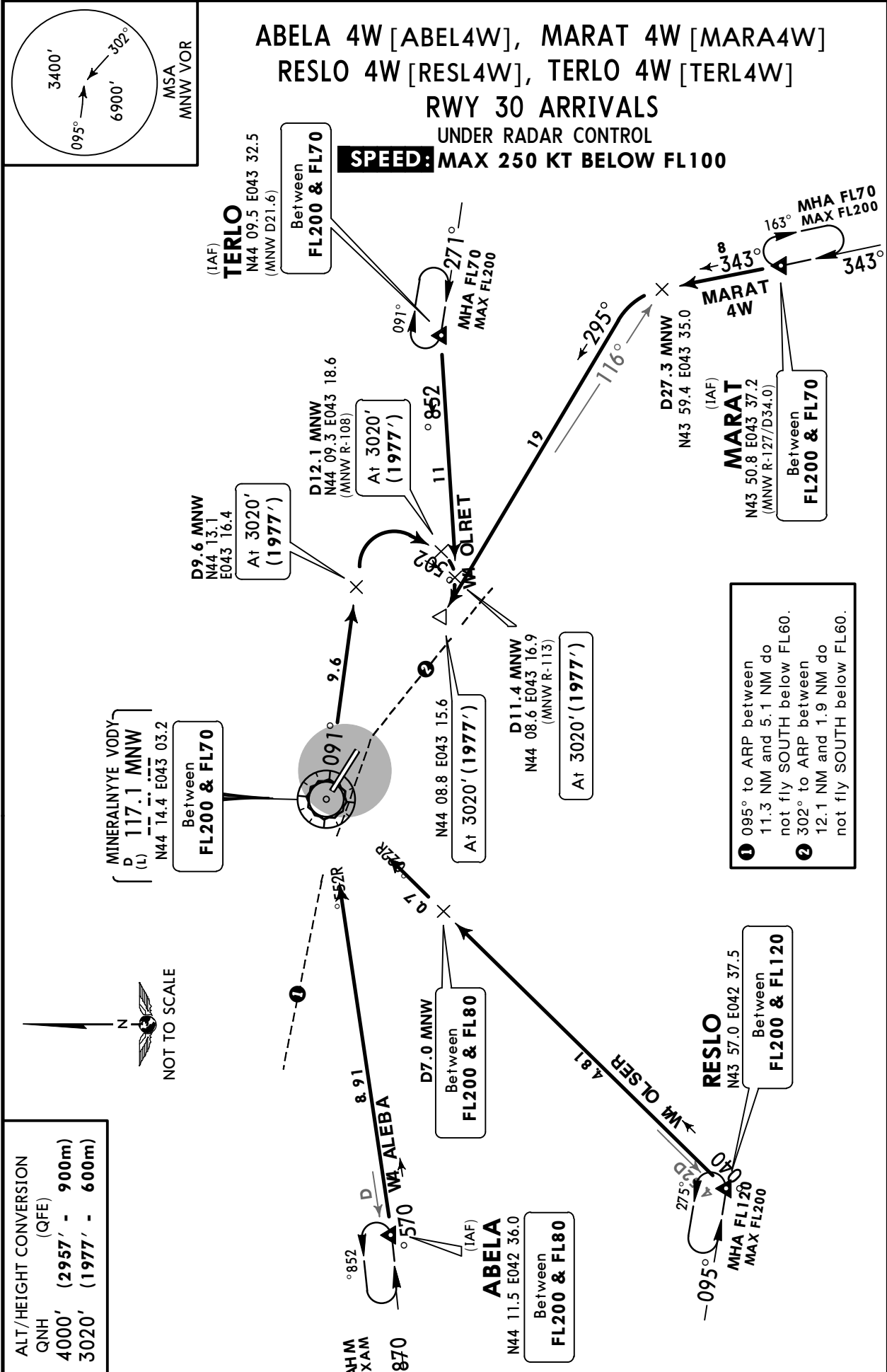
10-2Q

Eff 23 Jul

STAR

JEPPESSEN MINERALNYYE VODY, RUSSIA

ATIS 125.25 (Russian 127.4)	Apt Elev 1047'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704mm (938.6 hPa) Trans alt: 4000' (2957')
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URMM/MRV

MINERALNYYE VODY

4 JAN 13

10-3A

Eff 10 Jan

JEPPESSEN MINERALNYYE VODY, RUSSIA

RNAV SID

MINERALNYYE
VODY
Krug
120.7

Apt Elev
1047'

QNH on request (QFE)

Trans level: FL60

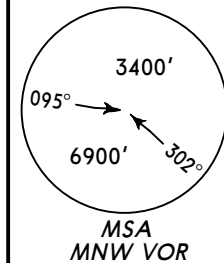
FL70 if pressure is less than 704 mm (938.6 hPa)

Trans alt: 4000' (2956')

1. Contact MINERALNYYE VODY Krug immediately after crossing
1440' (396').

2. Take-off should be carried out with noise abatement procedures
according to Flight Operation Manual.

**BADKO 3R [BADK3R]
SULOD 3R [SULO3R]
RWY 30 RNAV DEPARTURES
RNAV (GNSS)**



SULOD

N44 35.5 E042 39.9

Between
FL70 & FL200



D26.9 12.3

MW004

N44 25.8 E042 50.6

D14.6 315°
SULOD 3R

BADKO

N44 30.7 E043 30.4

Between
FL70 & FL200



D25.4 10.8

MW012

N44 23.7 E043 18.8

BADKO 3R

D14.6 043°



468 MD

N44 15.6 E043 00.5

MW023

N44 15.6 E043 00.5

(MNW R-295/D2.3)

MINERALNYYE VODY

D (L) 117.1 MNW

N44 14.4 E043 03.2

MW001

N44 14.4 E043 03.2

① 275° from ARP between
5.1 NM and 11.3 NM do
not fly south below FL60.

This SID requires a minimum climb gradient
of

BADKO 3R: 5.2%.

If unable to comply advise ATC.

Gnd speed-KT	75	100	150	200	250	300
5.2% (V/V fpm)	395	527	790	1053	1317	1549

ALT/HEIGHT CONVERSION

QNH (QFE)

1440' (396' - 120m)

4000' (2956' - 900m)

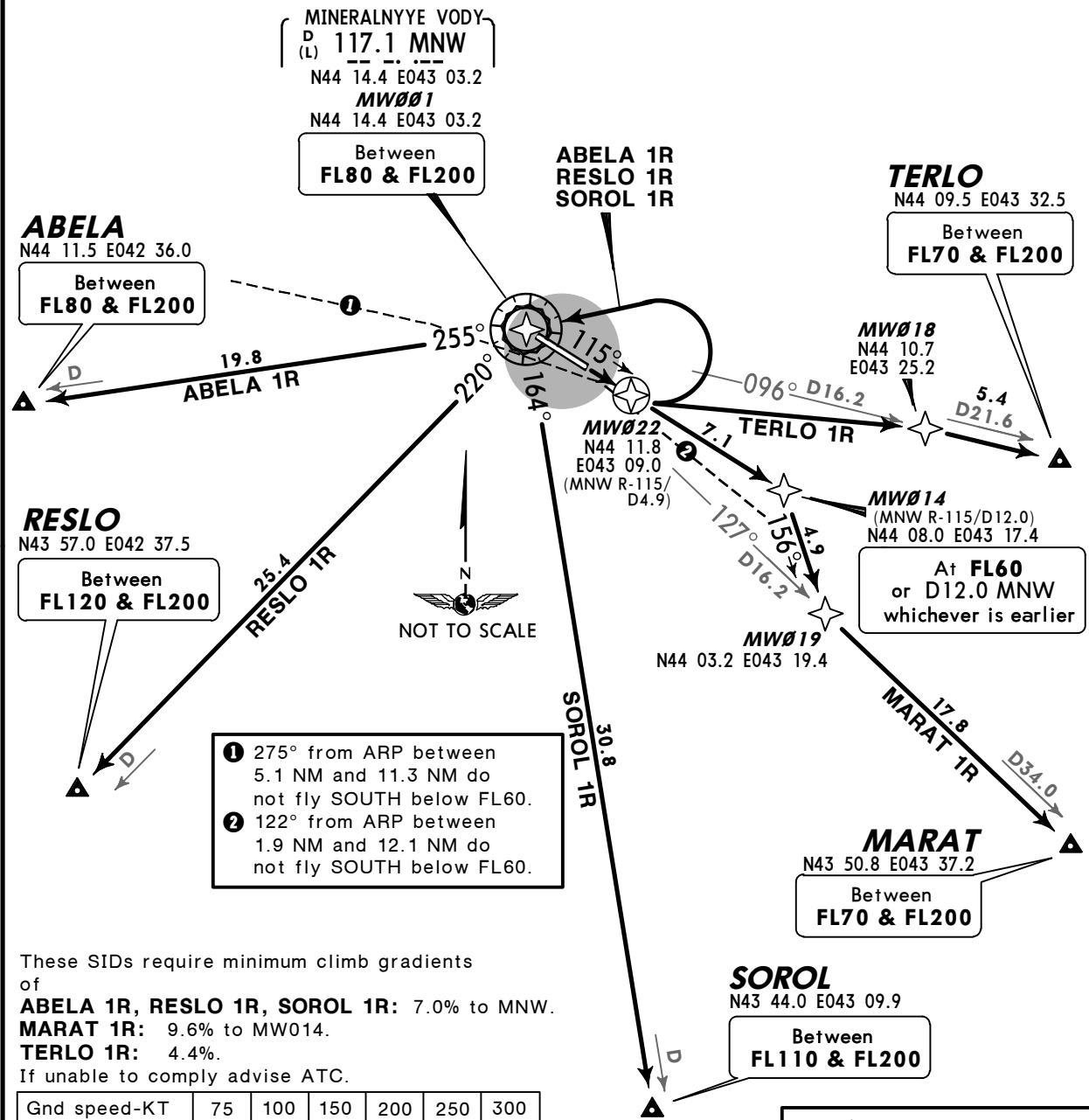
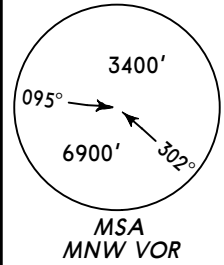
URMM/MRV
MINERALNYYE VODY

27 JUN 14 (10-3B)

JEPPESSEN MINERALNYYE VODY, RUSSIA
RNAV SID

MINERALNYYE VODY Krug 120.7	Apt Elev 1047'	QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704 mm (938.6 hPa) Trans alt: 4000' (2963') 1. Contact MINERALNYYE VODY Krug immediately after crossing 1440' (403'). 2. Take-off should be carried out with noise abatement procedures according to Flight Operation Manual.
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ABELA 1R [ABEL1R], MARAT 1R [MARA1R],
RESLO 1R [RESL1R], SOROL 1R [SORO1R],
TERLO 1R [TERL1R]
RWY 12 RNAV DEPARTURES
RNAV (GNSS)



Gnd speed-KT	75	100	150	200	250	300
9.6% (V/V fpm)	729	972	1458	1944	2430	2917
7.0% (V/V fpm)	532	709	1063	1418	1772	2127
4.4% (V/V fpm)	334	446	668	891	1114	1337

ALT/HEIGHT CONVERSION	
QNH (QFE)	
1440' (403' - 120m)	
4000' (2963' - 900m)	

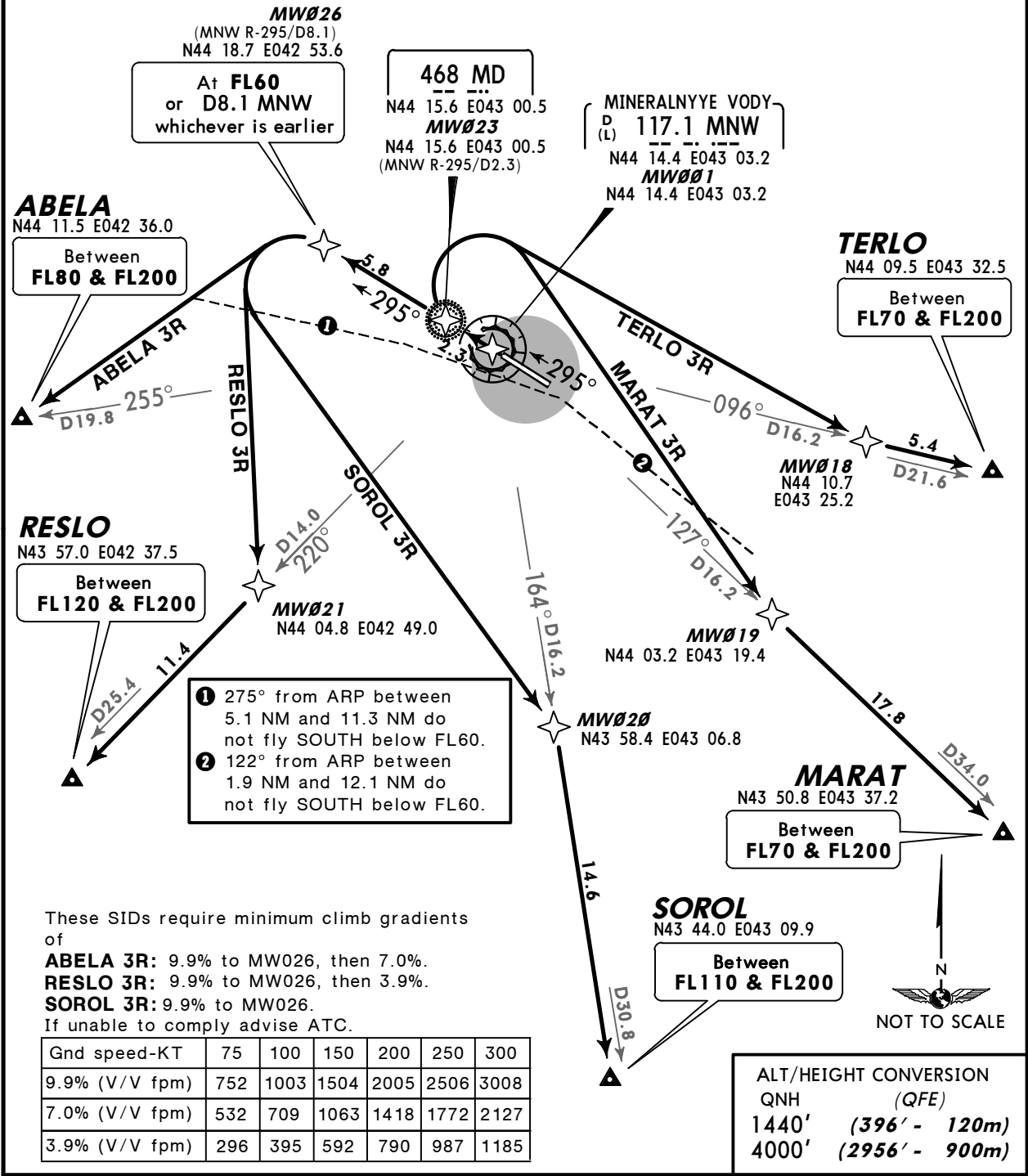
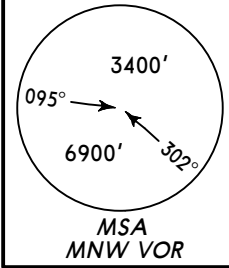
URMM/MRV
MINERALNYYE VODY

27 JUN 14 (10-3C)

JEPPESSEN MINERALNYYE VODY, RUSSIA
RNAV SID

MINERALNYYE VODY Krug 120.7	Apt Elev 1047'	QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704 mm (938.6 hPa) Trans alt: 4000' (2956') 1. Contact MINERALNYYE VODY Krug immediately after crossing 1440' (396'). 2. Take-off should be carried out with noise abatement procedures according to Flight Operation Manual.
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ABELA 3R [ABEL3R], MARAT 3R [MARA3R],
SOROL 3R [SORO3R], RESLO 3R [RESL3R],
TERLO 3R [TERL3R],
RWY 30 RNAV DEPARTURES
RNAV (GNSS)



URMM/MRV
MINERALNYYE VODY

4 JAN 13

10-3D

Eff 10 Jan

JEPPesen MINERALNYYE VODY, RUSSIA

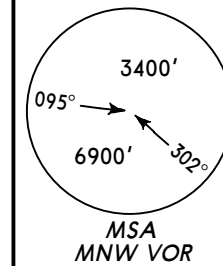
SID

MINERALNYYE
VODY
Krug
120.7

Apt Elev
1047'

QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 704 mm (938.6 hPa)
Trans alt: 4000' (2963')
1. Contact MINERALNYYE VODY Krug immediately after crossing
1440' (403').
2. Take-off should be carried out with noise abatement procedures
according to Flight Operation Manual.

BADKO 1V [BADK1V]
SULOD 1V [SULO1V]
RWY 12 DEPARTURES



SULOD

N44 35.5 E042 39.9

Between
FL70 & FL200

D26.9
12.3
D14.6 MNW
N44 25.8 E042 50.6

BADKO

N44 30.7 E043 30.4

Between
FL70 & FL200

D25.4
13.5
D11.9 MNW
N44 22.0 E043 15.9

MINERALNYYE VODY
D (L) 117.1 MNW
N44 14.4 E043 03.2

4.9 DME



① 122° from ARP between
1.9 NM and 12.1 NM do
not fly south below FL60.

This SID requires a minimum climb gradient
of

BADKO 1V: 5.5%.

If unable to comply advise ATC.

Gnd speed-KT	75	100	150	200	250	300
5.5% (V/V fpm)	418	557	835	1114	1392	1671

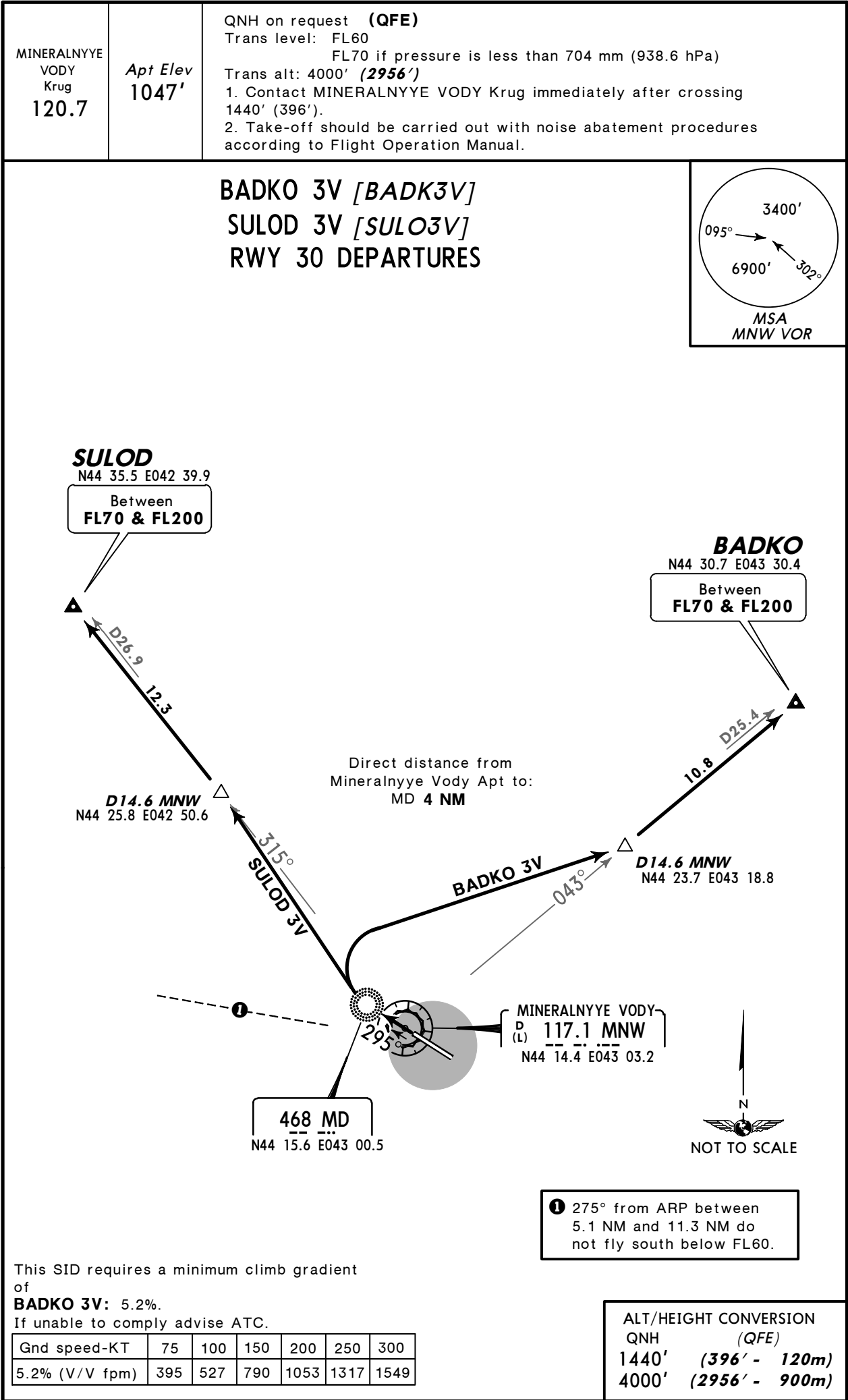
ALT/HEIGHT CONVERSION

QNH (QFE)
1440' (403' - 120m)
4000' (2963' - 900m)

URMM/MRV
MINERALNYYE VODY

4 JAN 13 10-3E Eff 10 Jan

JEPPesen MINERALNYYE VODY, RUSSIA
SID

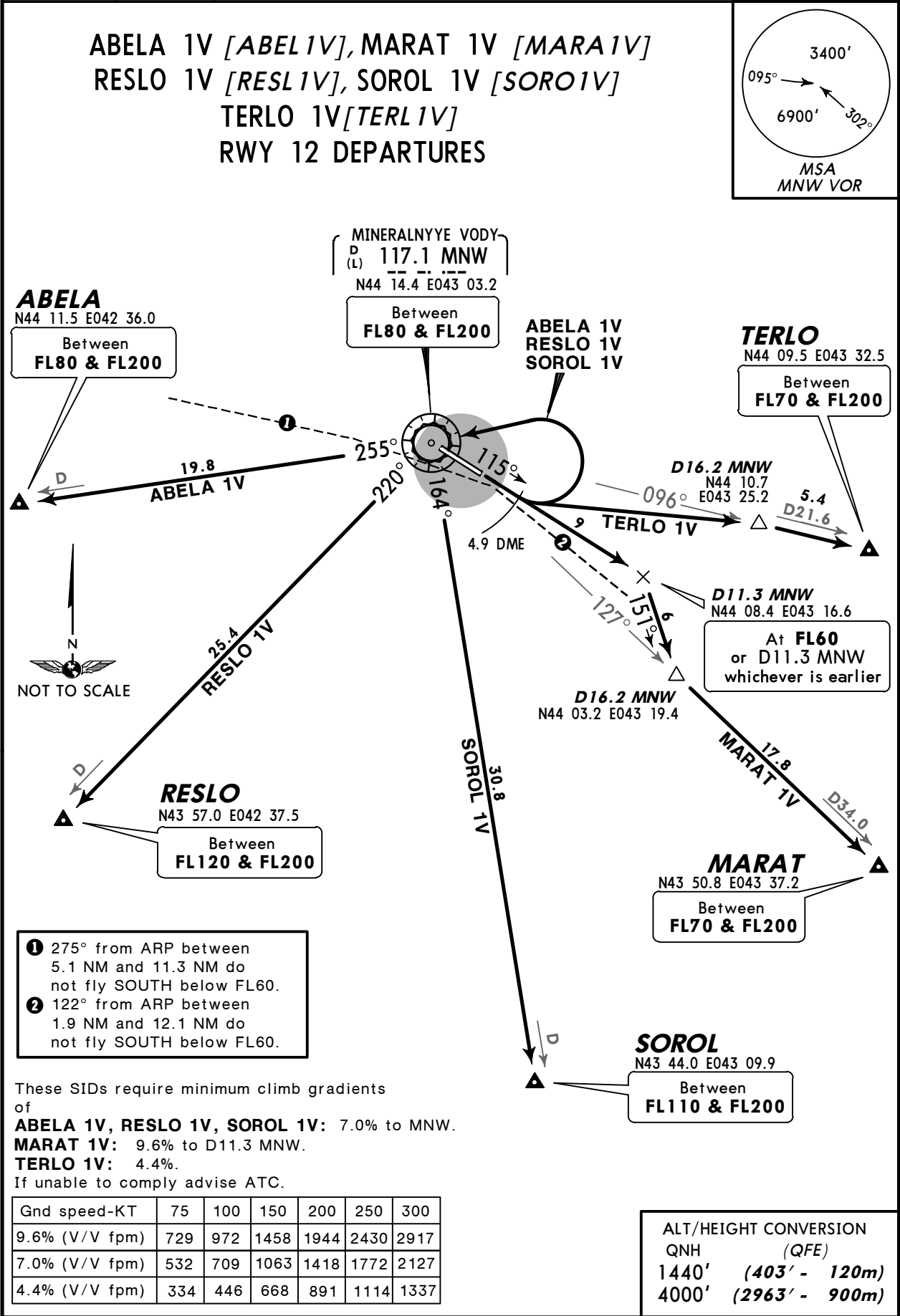


URMM/MRV
MINERALNYYE VODY

27 JUN 14 10-3F

JEPPESSEN MINERALNYYE VODY, RUSSIA
SID

MINERALNYYE VODY Krug 120.7	Apt Elev 1047'	QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704 mm (938.6 hPa) Trans alt: 4000' (2963') 1. Contact MINERALNYYE VODY Krug immediately after crossing 1440' (403'). 2. Take-off should be carried out with noise abatement procedures according to Flight Operation Manual.
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URMM/MRV
MINERALNYYE VODY

27 JUN 14

10-3G
JEPPESSEN MINERALNYYE VODY, RUSSIA
SID

MINERALNYYE
VODY
Krug
120.7

Apt Elev
1047'

QNH on request (QFE)

Trans level: FL60

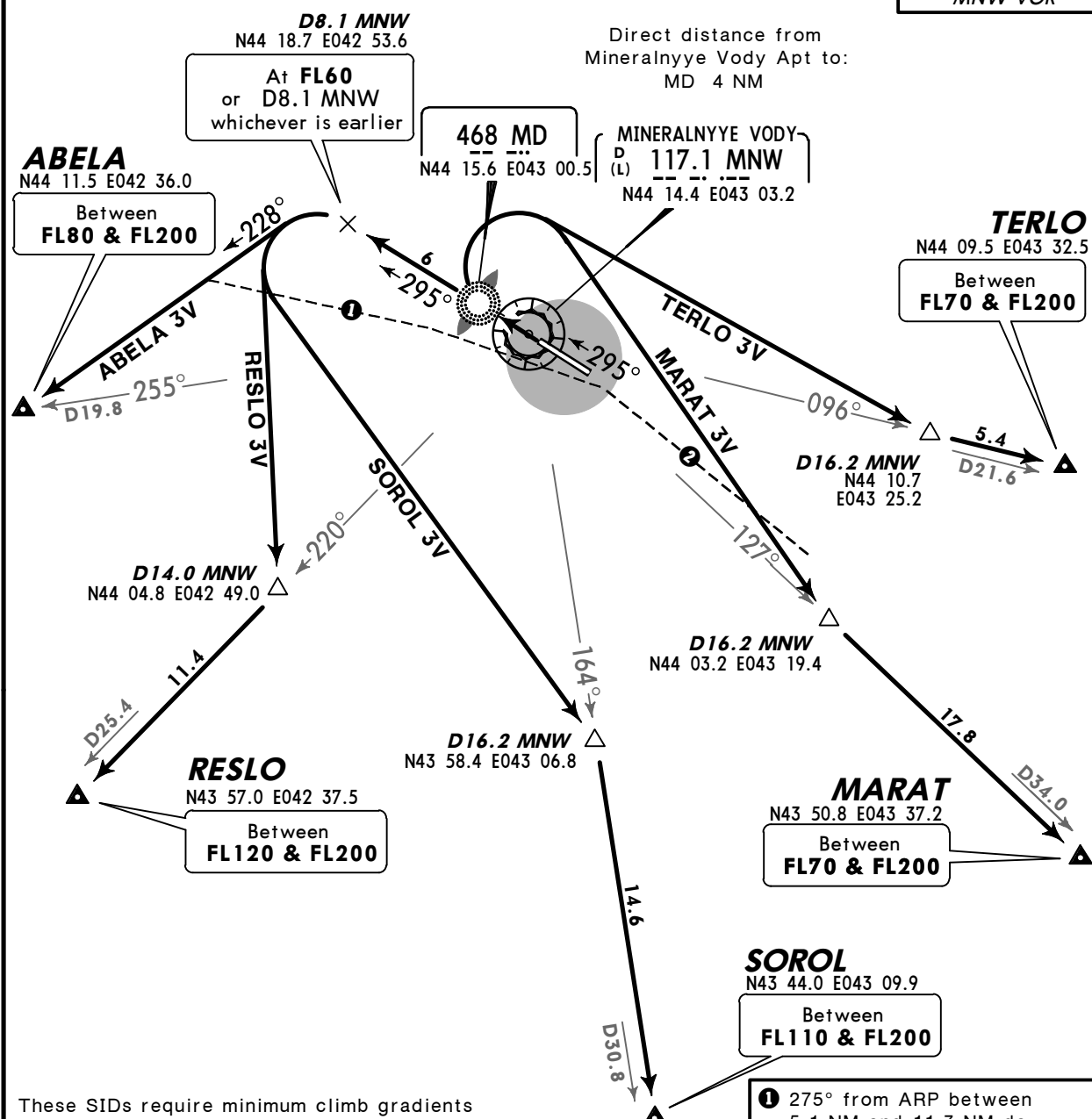
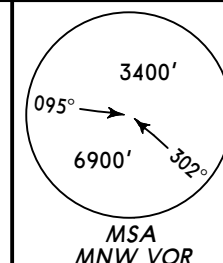
FL70 if pressure is less than 704 mm (938.6 hPa)

Trans alt: 4000' (2956')

1. Contact MINERALNYYE VODY Krug immediately after crossing 1440' (396').

2. Take-off should be carried out with noise abatement procedures according to Flight Operation Manual.

**ABELA 3V [ABEL3V], MARAT 3V [MARA3V]
RESLO 3V [RESL3V], SOROL 3V [SORO3V]
TERLO 3V [TERL3V]
RWY 30 DEPARTURES**



These SIDs require minimum climb gradients of

ABELA 3V: 9.9% to D8.1 MNW, then 7.0%.

RESLO 3V: 9.9% to D8.1 MNW, then 3.9%.

SOROL 3V: 9.9% to D8.1 MNW.

If unable to comply advise ATC.

Gnd speed-KT	75	100	150	200	250	300
9.9% (V/V fpm)	752	1003	1504	2005	2674	3209
7.0% (V/V fpm)	532	709	1063	1418	1772	2127
3.9% (V/V fpm)	296	395	592	790	987	1185

- 275° from ARP between 5.1 NM and 11.3 NM do not fly SOUTH below FL60.
- 122° from ARP between 1.9 NM and 12.1 NM do not fly SOUTH below FL60.

ALT/HEIGHT CONVERSION

QNH (QFE)

1440' (396' - 120m)

4000' (2956' - 900m)

NOT TO SCALE

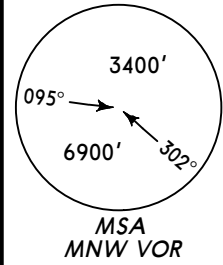
URMM/MRV
MINERALNYYE VODY

 JEPPESSEN MINERALNYYE VODY, RUSSIA

4 JAN 13 **(10-3H)** **Eff 10 Jan** **SID**

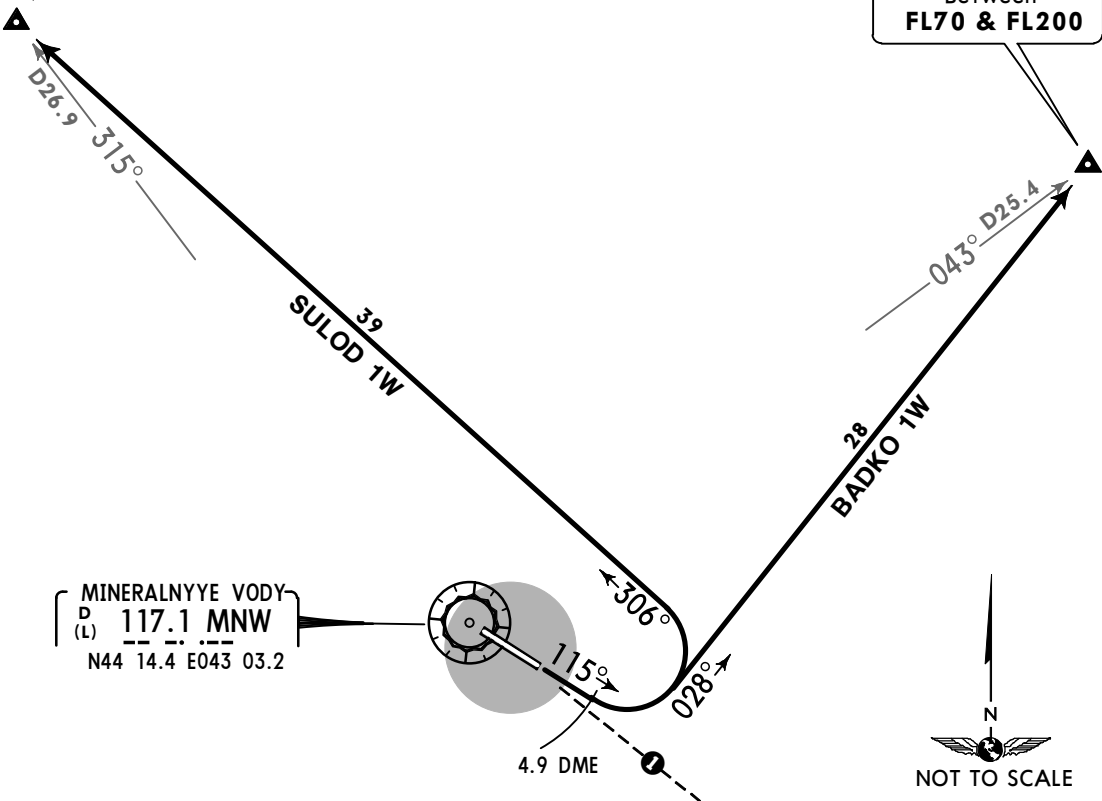
MINERALNYYE VODY Krug 120.7	Apt Elev 1047'	QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 704 mm (938.6 hPa)
		Trans alt: 4000' (2963') 1. Contact MINERALNYYE VODY Krug immediately after crossing 1440' (403'). 2. Take-off should be carried out with noise abatement procedures according to Flight Operation Manual.

BADKO 1W [BADK1W]
SULOD 1W [SULO1W]
RWY 12 DEPARTURES
UNDER RADAR CONTROL



SULOD
N44 35.5 E042 39.9
Between
FL70 & FL200

BADKO
N44 30.7 E043 30.4
Between
FL70 & FL200



This SID requires a minimum climb gradient of
BADKO 1W: 5.5%.
If unable to comply advise ATC.

Gnd speed-KT	75	100	150	200	250	300
5.5% (V/V fpm)	418	557	835	1114	1392	1671

❶ 122° from ARP between 1.9 NM and 12.1 NM do not fly south below FL60.

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1440'	(403' - 120m)
4000'	(2963' - 900m)

URMM/MRV
MINERALNYYE VODY

4 JAN 13

10-3J

Eff 10 Jan

JEPPESSEN MINERALNYYE VODY, RUSSIA

SID

MINERALNYYE
VODY
Krug
120.7

Apt Elev
1047'

QNH on request (QFE)

Trans level: FL60

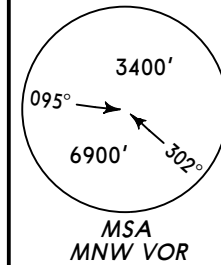
FL70 if pressure is less than 704 mm (938.6 hPa)

Trans alt: 4000' (2956')

1. Contact MINERALNYYE VODY Krug immediately after crossing 1440' (396').

2. Take-off should be carried out with noise abatement procedures according to Flight Operation Manual.

BADKO 3W [BADK3W]
SULOD 3W [SULO3W]
RWY 30 DEPARTURES
UNDER RADAR CONTROL



SULOD

N44 35.5 E042 39.9
(MNW R-315/D26.9)

Between
FL70 & FL200



SULOD 3W
26

Direct distance from
Mineralnyye Vody Apt to:
MD 4 NM

BADKO 3W
28

BADKO

N44 30.7 E043 30.4

Between
FL70 & FL200

D25.4

043°

053°

317°



1

468 MD

N44 15.6 E043 00.5

MINERALNYYE VODY
D (L) 117.1 MNW
N44 14.4 E043 03.2

1 275° from ARP between 5.1 NM and 11.3 NM do not fly south below FL60.

This SID requires a minimum climb gradient of

BADKO 3W: 5.2%.

If unable to comply advise ATC.

Gnd speed-KT	75	100	150	200	250	300
5.2% (V/V fpm)	395	527	790	1053	1317	1549

ALT/HEIGHT CONVERSION

QNH (QFE)

1440' (396' - 120m)

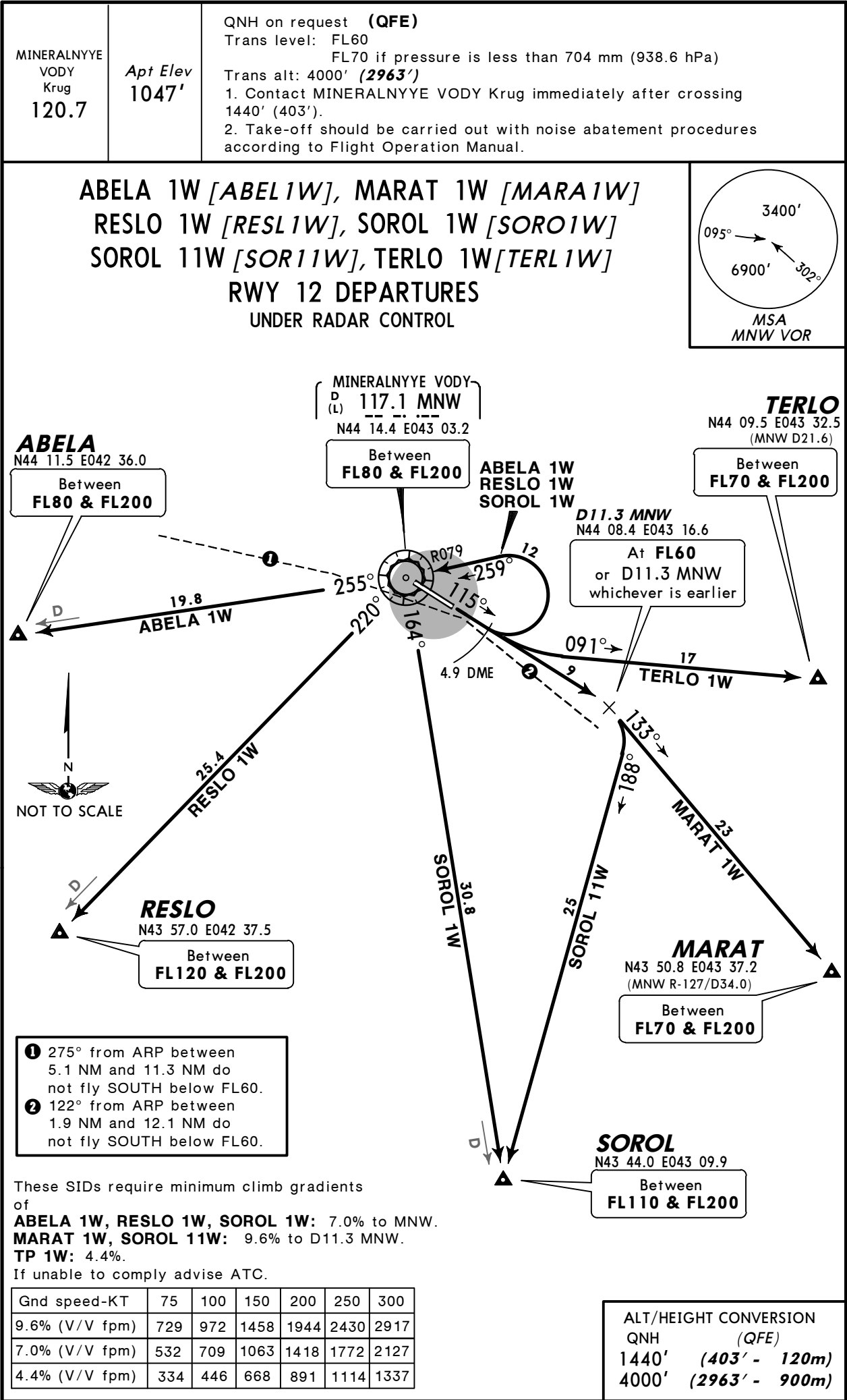
4000' (2956' - 900m)

URMM/MRV
MINERALNYYE VODY

27 JUN 14

10-3K

SID



URMM/MRV

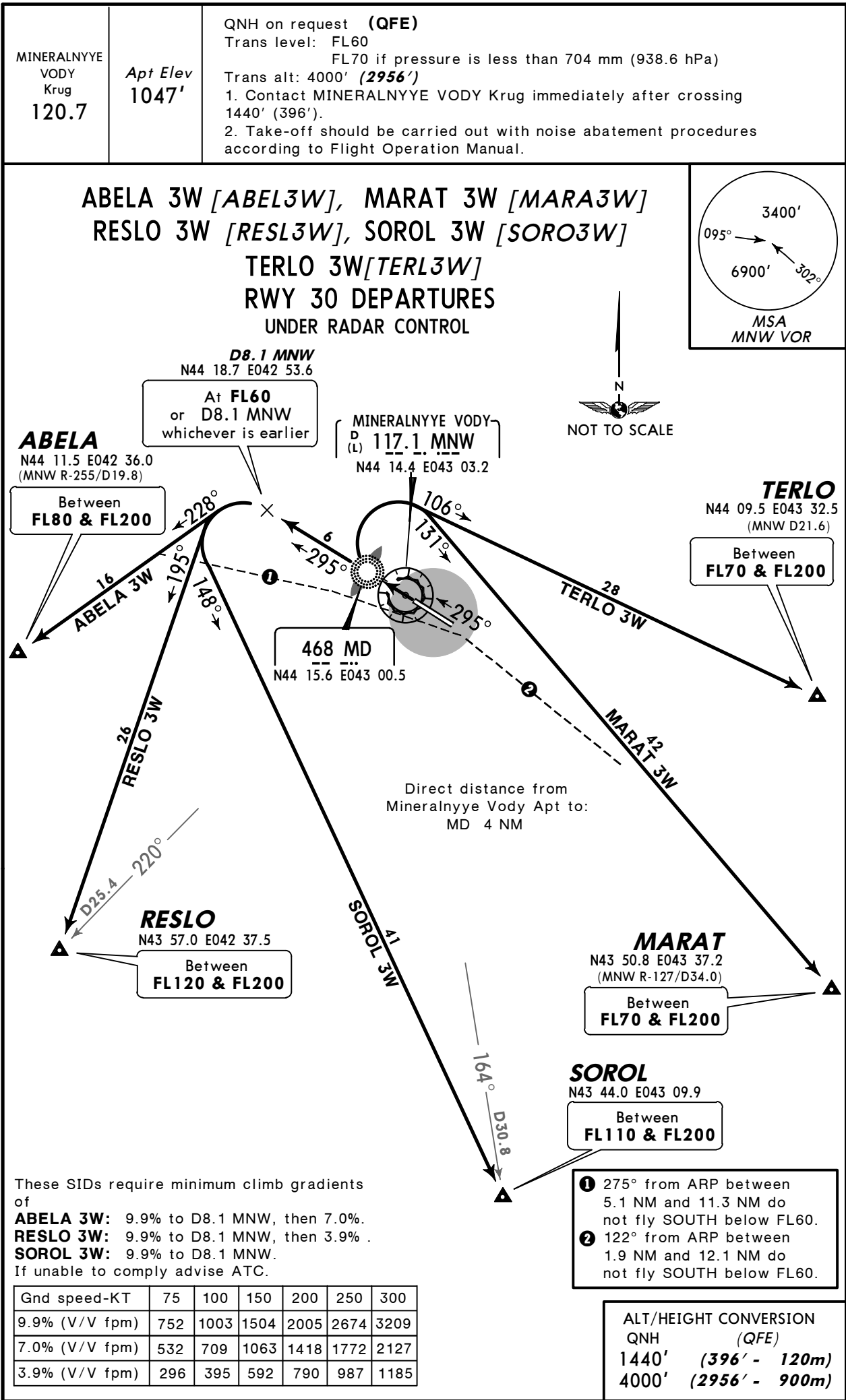
MINERALNYYE VODY

27 JUN 14

10-3L

JEPPESSEN MINERALNYYE VODY, RUSSIA

SID



URMM/MRV**JEPPESEN****MINERALNYE VODY, RUSSIA****MINERALNYE VODY**

12 AUG 11

10-4

Eff 25 Aug

NOISE**NOISE ABATEMENT****ARRIVALS****Runway 30**

Noise abatement procedures shall be executed by all aircraft. If special meteorological conditions, such as considerable wind, cumulo-nimbus clouds etc are present in arrival and approach sectors, ATC unit may, if it is considered necessary for safety reasons, at its own discretion or by a pilot-in-command's request deviate from the provisions stated below.

Restrictions

The required noise abatement procedures shall not be observed over the overflown areas in the following cases:

- if there is ice, slush, water, mud, rubber, oil etc on runway and friction coefficient is 0.4 or less
- when ceiling is less than 150m or visibility is less than 1800m
- when crosswind component (including gusts) on runway exceeds 7m/sec
- when tailwind component on runway exceeds 2.5m/sec
- when wind shear is forecasted or reported, or when it is expected that unfavourable weather conditions may influence aircraft approach and landing.

During instrument as well as visual approach it is not allowed to fly below ILS glide path.

No noise abatement procedure shall envisage the increasing of indicated air speed during descent.

A displacement of THR shall not be used as a noise abatement measure.

AIR-GROUND communication shall be kept to a minimum.

Downwind landing of aircraft taking into account friction coefficient shall be allowed in cases when this direction is optimal for noise abatement over the city or in cases when upwind landing does not provide safety or is prohibited. A tailwind component shall correspond to the norms established in Airplane Flight Manual.

Runway 30 special approach procedure

When reaching a distance of 13.5 ± 1.6 NM from THR pilots shall conduct the flight at 4000' (2956' - 900m) maintaining MAX 210 KT. At a distance of 11.9 NM from THR speed shall be reduced to 185 KT ± 10 KT. At 10.8 NM from THR pilots shall lower the landing gear and wing devices into intermediate position at 15-30° angle (speed and angle of wing devices' settings depend on type and mass of aircraft).

After glide path interception and commencement of descent along glide path pilots shall continue to reduce speed to 155 - 160 KT ± 15 KT by the moment of reaching 2530' (1486' - 450m) at a distance of about 5.2 NM from THR.

At or above 2530' (1486' - 450m) pilots shall terminate to set wing devices into landing position and before reaching 2200' (1156' - 350m) and a distance of 3.8 NM from THR complete the stabilization of aircraft in the landing configuration at final approach speed.

At or above 2200' (1156' - 350m) and a distance of 4.1 NM the aircraft shall be completely stabilized and the pilot shall maintain final approach speed until landing taking into account the aircraft weight.

URMM/MRV

JEPPESEN

MINERALNYYE VODY, RUSSIA

MINERALNYYE VODY 12 AUG 11

10-4A

Eff 25 Aug

NOISE

NOISE ABATEMENT

DEPARTURES

I General

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

Restrictions

Downwind take-off taking into account friction coefficient shall be allowed in cases when the direction is optimal for noise abatement over the city or in cases when upwind take-off does not provide safety or is prohibited. The tailwind component shall correspond to the norms established in the aircraft Flight Manual.

The minimum indicated air speed during climb shall not be less than $V_{2} + 10$ KT or less than that prescribed in the Aircraft Flight Manual if higher.

Maintaining the minimum indicated air speed of climb is not required if it leads to the exceeding of the minimum permissible angle of attack.

The reduction of power shall not be applied until:

- reaching 2040' (993' - 300m)
- the established standard power mode enables to maintain the established climb gradient of not less than 4% at the above specified speed and with maximum certified take-off mass
- take-off flight path provides overflying of all obstacles located under the flight path with sufficient clearance when all engines are operating normally and also taking into account possible engine failure and time period necessary for the rest engines to develop full power.

Special take-off procedure

Pilots shall apply two special take-off procedures, NADP 1 and NADP 2. The pilot-in-command may use any of them for reaching necessary effect. (ICAO Doc 8168, Vol I, Part V, Chapter 3).

REVERSE THRUST

Reverse thrust power with the exception of reverse idle thrust is used for safety reasons only.

URMM/MRV

Apt Elev 1047'

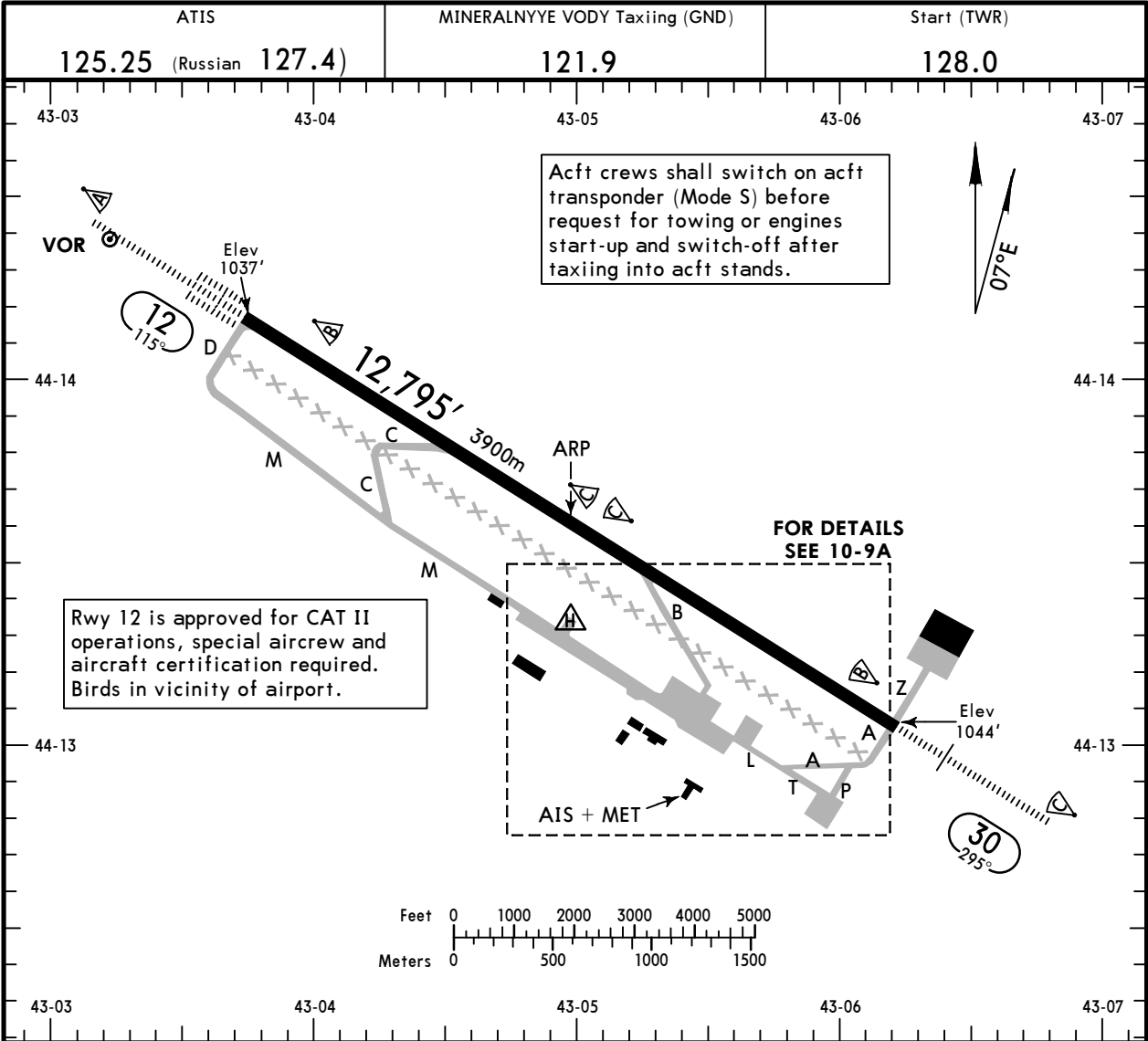
N44 13.6 E043 05.0



MINERALNYYE VODY, RUSSIA

1 FEB 19 10-9

MINERALNYYE VODY



ADDITIONAL RUNWAY INFORMATION				
RWY		USABLE LENGTHS		TAKE-OFF
		LANDING BEYOND		
		Threshold	Glide Slope	
12	HIRL(59m) CL(15m) HIALS-II TDZ PAPI-L(3.0°) RVR		11,762' 3585m	1
30	HIRL(59m) CL(15m) HIALS PAPI-L(3.0°) RVR		11,823' 3604m	

1 TAKE-OFF RUN AVAILABLE

RWY 12:

From rwy head 12,795' (3900m)
twy C int 8317' (2535m)

RWY 30:

From rwy head 12,795' (3900m)
twy B int 7480' (2280m)

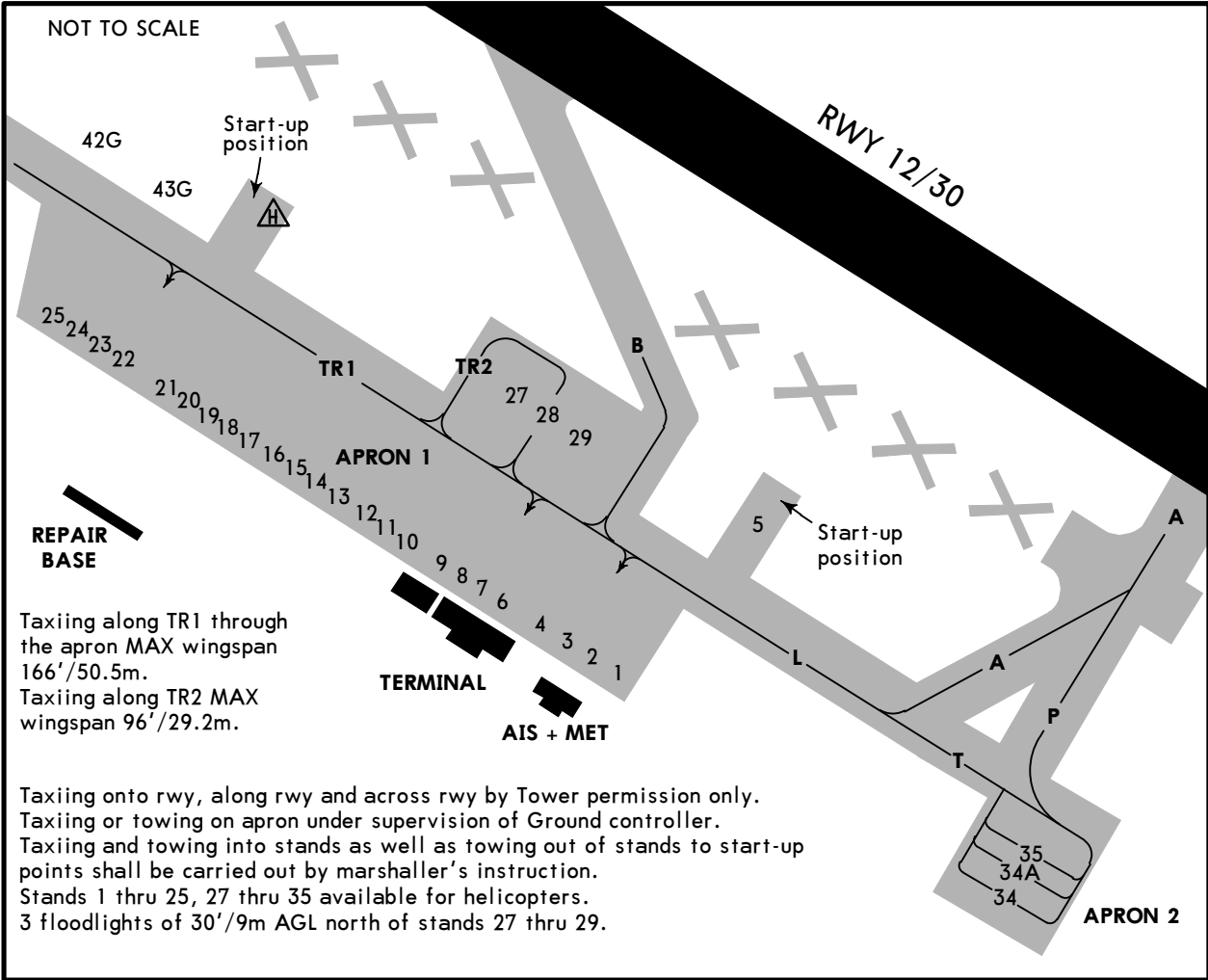
TAKE-OFF		
AIR CARRIER (JAA)		
All Rwys		
LVP must be in force		
	RL & CL	RCLM (DAY only) or RL
A		
B	200m (150m)	250m
C		
D	250m (200m)	300m
		RCLM (DAY only) or RL
		400m

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

URMM/MRV

 **JEPPESSEN**
1 FEB 19 **10-9A**

MINERALNYYE VODY, RUSSIA
MINERALNYYE VODY



INS COORDINATES

STAND No.	COORDINATES	STAND No.	COORDINATES
1, 2	N44 13.0 E043 05.5	27	N44 13.2 E043 05.3
3, 4	N44 13.0 E043 05.4	28	N44 13.2 E043 05.4
5	N44 13.0 E043 05.6	29	N44 13.1 E043 05.4
6	N44 13.1 E043 05.4	34 thru 35	N44 12.8 E043 05.9
7 thru 9	N44 13.1 E043 05.3	42G	N44 13.3 E043 04.9
10 thru 12	N44 13.1 E043 05.2	43G	N44 13.3 E043 05.0
13 thru 16	N44 13.2 E043 05.1		
17 thru 19	N44 13.2 E043 05.0		
20 thru 22	N44 13.3 E043 04.9		
23 thru 25	N44 13.3 E043 04.8		

LOW VISIBILITY PROCEDURES (LVP)

Low visibility procedures shall come into force when rwy visibility values are less than 550m.
The commencement of LVP will be broadcasted by ATIS: "Low visibility procedures in progress".
The term "Low visibility procedure" mean that an interval shall be maintained between arriving acft to provide ILS critical area clear of other acft, when acft is on final approach.
Rwy 12 is equipped for CAT II operations.

Arrival

Vacating of rwy 12 along Twy A or B.

When the flight crew has doubts in taxiing safety, the pilot shall stop the acft and request Follow-me car.

Acft arriving on rwy 12 shall be met after landing by the Follow-me car on Twy A or B on flight crews request. Further taxiing of acft after the Follow-me car shall be carried out under control of Taxiing.

Pilots should not request start-up clearance when the value of RVR is below the airport take-off minimum.

Departure

Towing of acft shall be carried out with navigation and flashing lights switched on.

It is prohibited to cross the rwy holding position line designated by 6 lighting markers and DAY marking on Twys A thru D and Z without Tower permission.

Cancellation of LVP

When RVR is 550m or above, ATS unit will delete "Low visibility procedure is in progress" from ATIS.

URMM/MRV

 JEPPESEN

Standard

12 APR 19
Eff 25 Apr

10-9S

MINERALNYYE VODY, RUSSIA
MINERALNYYE VODY

STRAIGHT-IN RWY	A	B	C	D
12 CAT 2 ILS	1137' (100') RA115' R350m	1137' (100') RA115' R350m	1137' (100') RA115' R350m	1137' (100') RA115' R350m
ILS	1237' (200')	1237' (200')	1237' (200')	1237' (200')
FULL	R550m	R550m	R550m	R550m
Limited	R750m	R750m	R750m	R750m
ALS out	R1200m	R1200m	R1200m	R1200m
GLS	1237' (200')	1237' (200')	1237' (200')	1237' (200')
FULL	R550m	R550m	R550m	R550m
Limited	R750m	R750m	R750m	R750m
ALS out	R1200m	R1200m	R1200m	R1200m
LOC ①	1480' (443') R1400m	1480' (443') R1400m	1480' (443') R1400m	1480' (443') R1400m
ALS out	R1500m	R1500m	C2100m	C2100m
RNAV ①	1480' (443') R1400m	1480' (443') R1400m	1480' (443') R1400m	1480' (443') R1400m
ALS out	R1500m	R1500m	C2100m	C2100m
VOR ①	1480' (443') R1400m	1480' (443') R1400m	1480' (443') R1400m	1480' (443') R1400m
ALS out	R1500m	R1500m	C2100m	C2100m
NDB ①	2900' (1863') C5000m	2900' (1863') C5000m	2900' (1863') C5000m	2900' (1863') C5000m
30 ILS	1243' (200')	1243' (200')	1243' (200')	1243' (200')
FULL	R550m	R550m	R550m	R550m
Limited	R750m	R750m	R750m	R750m
ALS out	R1200m	R1200m	R1200m	R1200m
GLS	1243' (200')	1243' (200')	1243' (200')	1243' (200')
FULL	R550m	R550m	R550m	R550m
Limited	R750m	R750m	R750m	R750m
ALS out	R1200m	R1200m	R1200m	R1200m
LOC ①	1560' (517') R1500m	1560' (517') R1500m	1560' (517') R1600m	1560' (517') R1600m
with FAF	R1500m	R1500m	C2400m	C2400m
ALS out	R1500m	R1500m	C2400m	C2400m
LOC	1850' (807') C3300m	1850' (807') C3300m	1850' (807') C3500m	1850' (807') C3500m
w/o FAF	C4000m	C4000m	C4200m	C4200m
ALS out	C4000m	C4000m	C4200m	C4200m
RNAV ①	1460' (417') R1200m	1460' (417') R1200m	1460' (417') R1200m	1460' (417') R1200m
ALS out	R1500m	R1500m	R1900m	R1900m
VOR ①	1560' (517') R1500m	1560' (517') R1500m	1560' (517') R1600m	1560' (517') R1600m
with FAF	R1500m	R1500m	C2400m	C2400m
ALS out	R1500m	R1500m	C2400m	C2400m
VOR	1850' (807') C3300m	1850' (807') C3300m	1850' (807') C3500m	1850' (807') C3500m
w/o FAF	C4000m	C4000m	C4200m	C4200m
ALS out	C4000m	C4000m	C4200m	C4200m

① Continuous Descent Final Approach.

URMM/MRV

JEPPESEN

12 APR 19

Eff 25 Apr

10-9S1

Standard

MINERALNYYE VODY, RUSSIA

MINERALNYYE VODY

TAKE-OFF RWY 12, 30

	Approved Operators HIRL, CL & mult. RVR req	LVP must be in Force			RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
		RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL			
A	125m	150m	200m	250m	400m	500m	
B							
C							
D	150m	200m	250m	300m			

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MINERALNYYE VODY

12 APR 19

(11-1)

Eff 25 Apr

JEPPESSEN MINERALNYYE VODY, RUSSIA

ILS Z Rwy 12

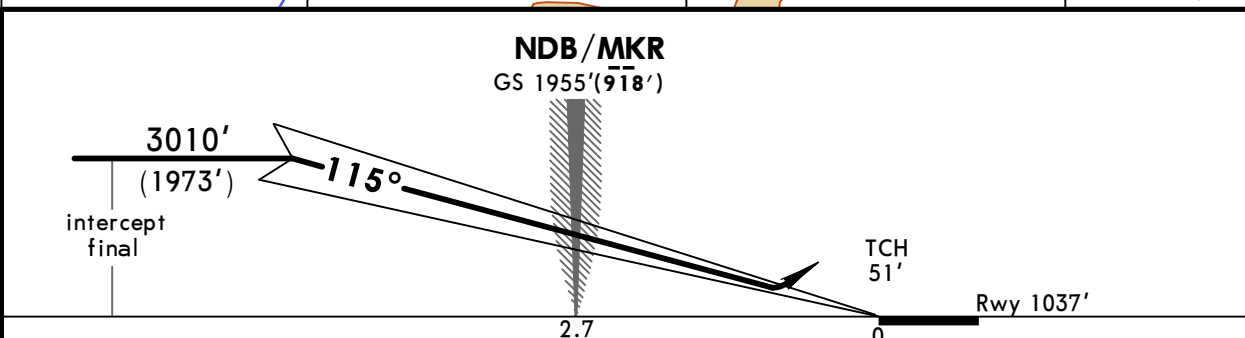
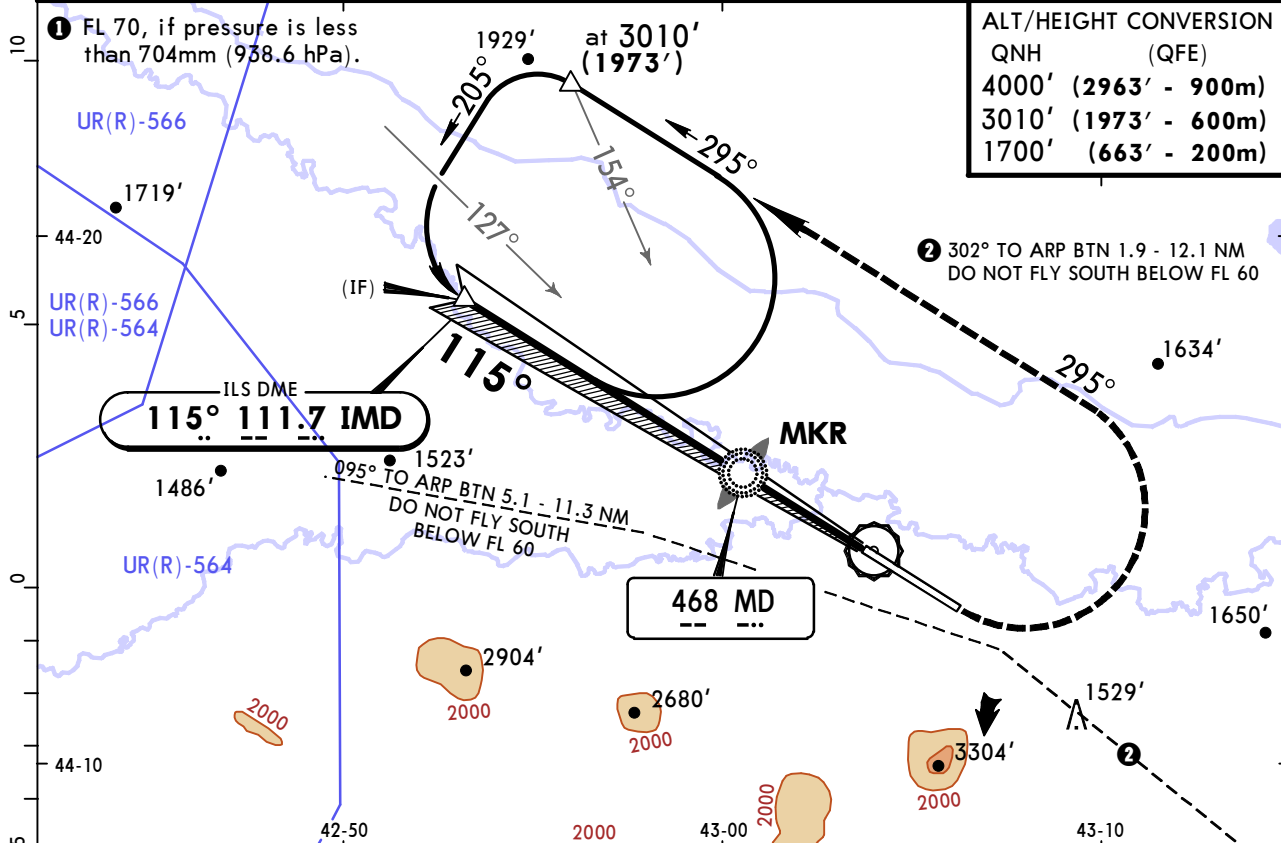
ATIS 125.25 (Russian 127.4)	MINERALNYYE VODY Approach 119.3	MINERALNYYE VODY Krug (TWR/R) 120.7	MINERALNYYE VODY Start (TWR) 128.0	Ground 121.9
LOC IMD 111.7	Final Apch Crs 115°	GS NDB/MKR 1955'(918')	ILS DA(H) 1237'(200')	Apt Elev 1047' Rwy 1037'
MISSED APCH: Climb on 115° to 1700'(663'), then turn LEFT onto 295° climbing to 3010'(1973'), then as directed.				

Alt Set: MM (hPa on req)

QNH on req (QFE)

Trans level: FL 60 ①

Trans alt: 4000' (2963')



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	1700'
GS	3.00°	372	478	531	637	743	PAPI	(663') on 115°

STRAIGHT-IN LANDING RWY 12			LOC (GS out)	
ILS				
DA(H) 1237'(200')				
FULL	TDZ or CL out	ALS out		
A				
B	RVR 550m	RVR 720m		
C	VIS 800m	VIS 800m		
D		1200m		
			NOT AUTHORIZED	

CHANGES: Procedure ident. CAT II transferred to 11-1A.

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URMM/MRV
MINERALNYYE VODY

12 APR 19 11-2 Eff 25 Apr

JEPPESEN MINERALNYYE VODY, RUSSIA
VOR DME ILS Rwy 12

ATIS
125.25
(Russian 127.4)

MINERALNYYE VODY
Approach
119.3

MINERALNYYE VODY
Krug (TWR/R)
120.7

MINERALNYYE VODY
Start (TWR)
128.0

Ground
121.9

LOC
IMD
111.7

Final
Apch Crs
115°

GS
NDB/MKR
1955'(918')

ILS
DA(H)
1237'(200')

Apt Elev 1047'
Rwy 1037'

MISSED APCH: Climb on 115° to D4.9 MNW, then turn LEFT to intercept R-327 climbing to 3010'(1973'), then as directed.

3400'

095°

6900'

302°

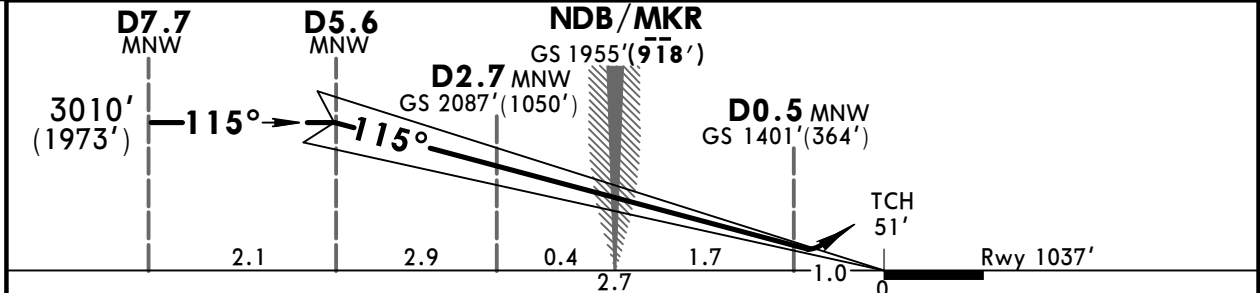
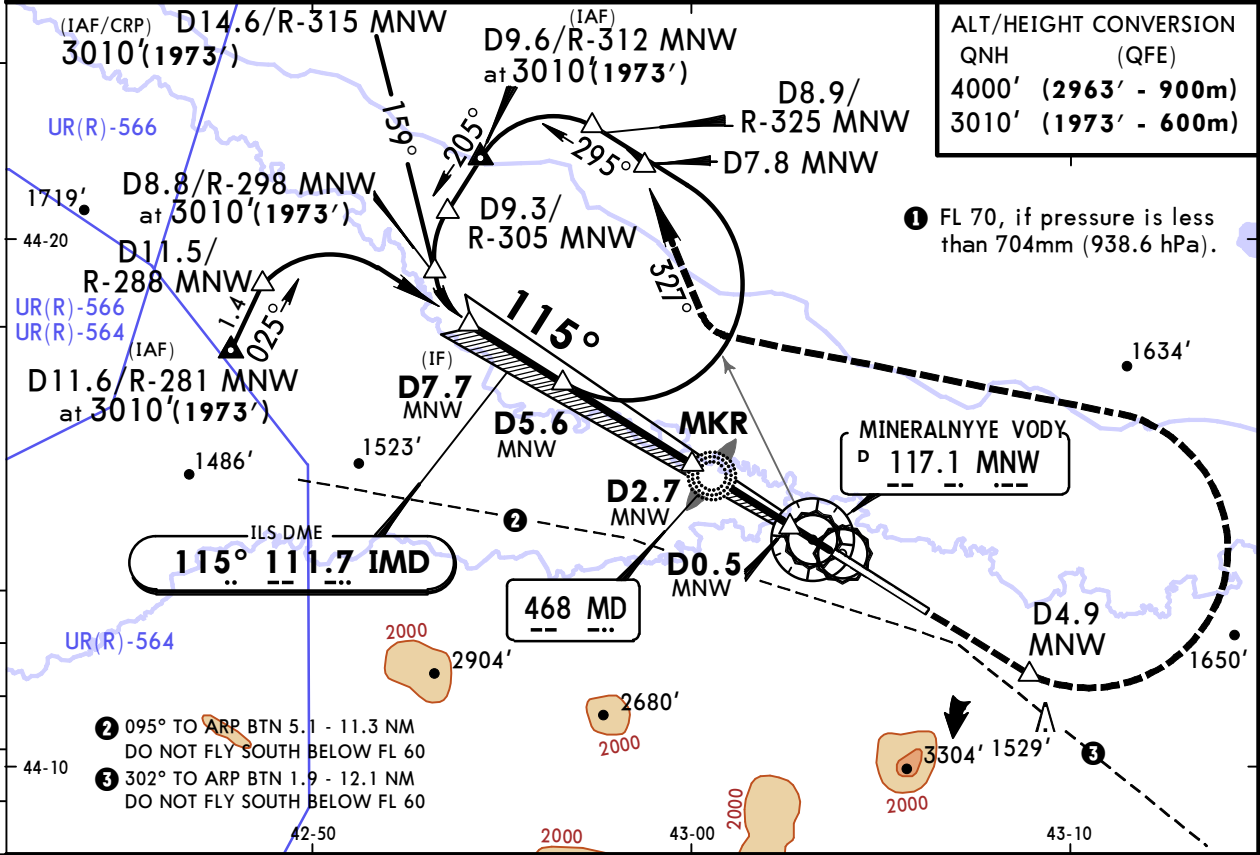
MSA
MNW VOR

Alt Set: MM (hPa on req)

QNH on req (QFE)

Trans level: FL 60 ①

Trans alt: 4000' (2963')



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	D4.9 MNW on 115°
GS	3.00°	372	478	531	637	743		

STRAIGHT-IN LANDING RWY 12					
ILS			LOC (GS out)		
DA(H) 1237'(200')					
FULL		TDZ or CL out	ALS out		
A	RVR 550m VIS 800m	RVR 720m VIS 800m	1200m	NOT AUTHORIZED	
B					
C					
D					

URMM/MRV
MINERALNYYE VODY

12 APR 19
Eff 25 Apr

11-2A

JEPPESEN MINERALNYYE VODY, RUSSIA
CAT II VOR DME ILS Rwy 12

ATIS
125.25
(Russian 127.4)

MINERALNYYE VODY
Approach
119.3

MINERALNYYE VODY
Krug (TWR/R)
120.7

MINERALNYYE VODY
Start (TWR)
128.0

Ground
121.9

LOC
IMD
111.7

Final
Apch Crs
115°

GS
NDB/MKR
1955' (918')

CAT II ILS
RA 115'
DA(H)
1137' (100')

Apt Elev 1047'
Rwy 1037'

MISSED APCH: Climb on 115° to D4.9 MNW, then turn LEFT to intercept R-327 climbing to 3010' (1973'), then as directed.

3400'

095°

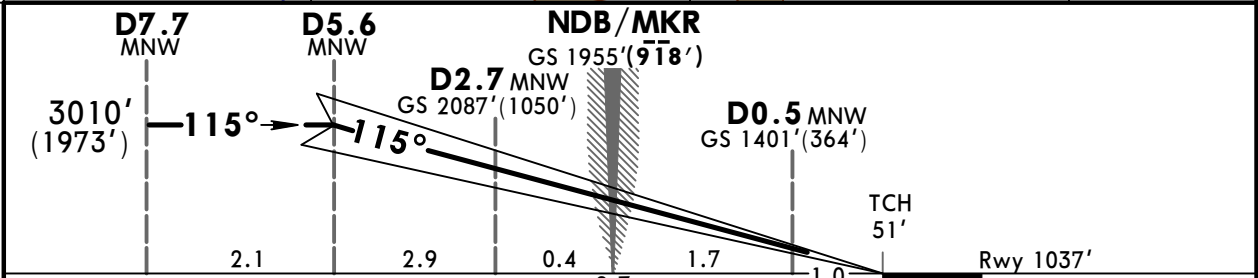
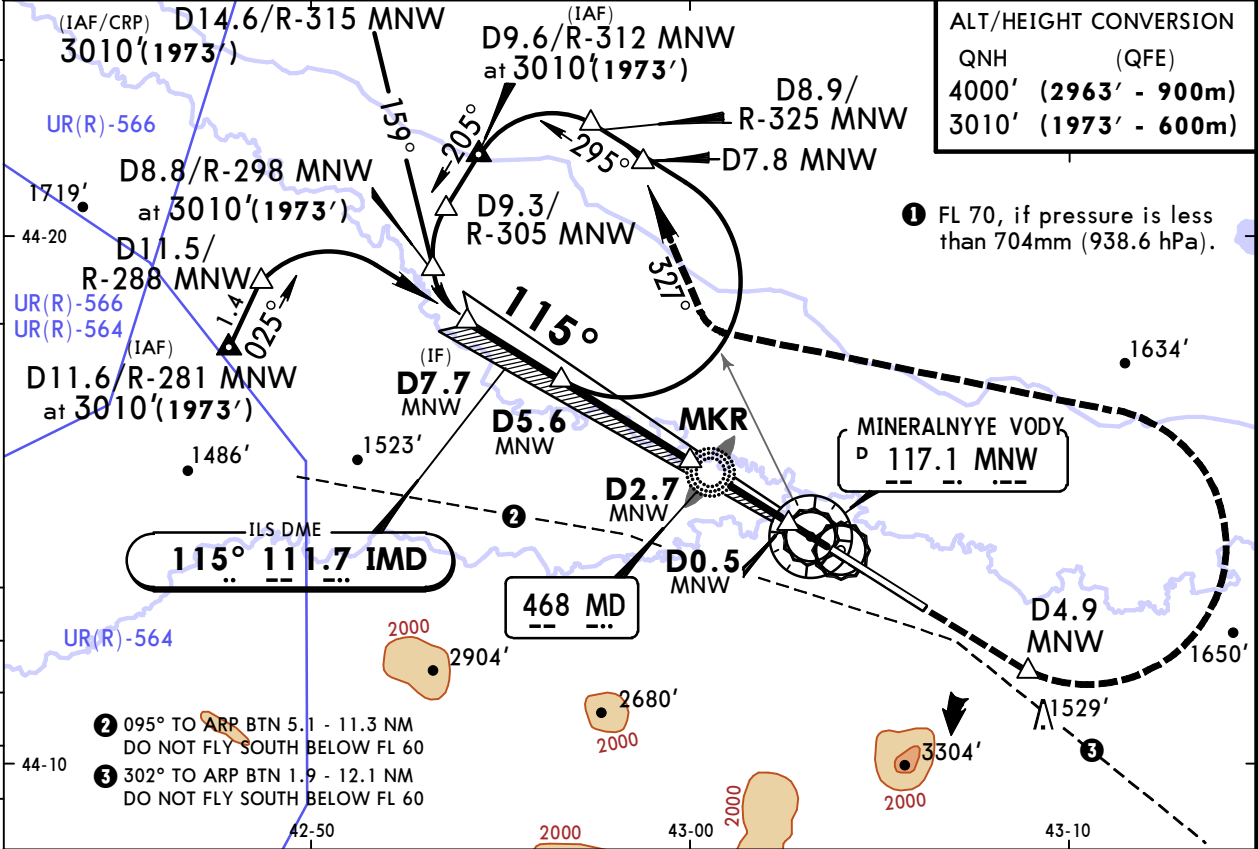
6900'

302°

MSA
MNW VOR

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 4000' (2963')

Special Aircrew & Acft Certification Required.



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	D4.9 MNW on 115°
GS	3.00°	372	478	531	637	743		

STRAIGHT-IN LANDING RWY 12

CAT II ILS

RA 115'

DA(H) 1137' (100')

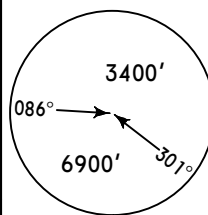
RVR 350m

URMM/MRV

MINERALNYE VODY

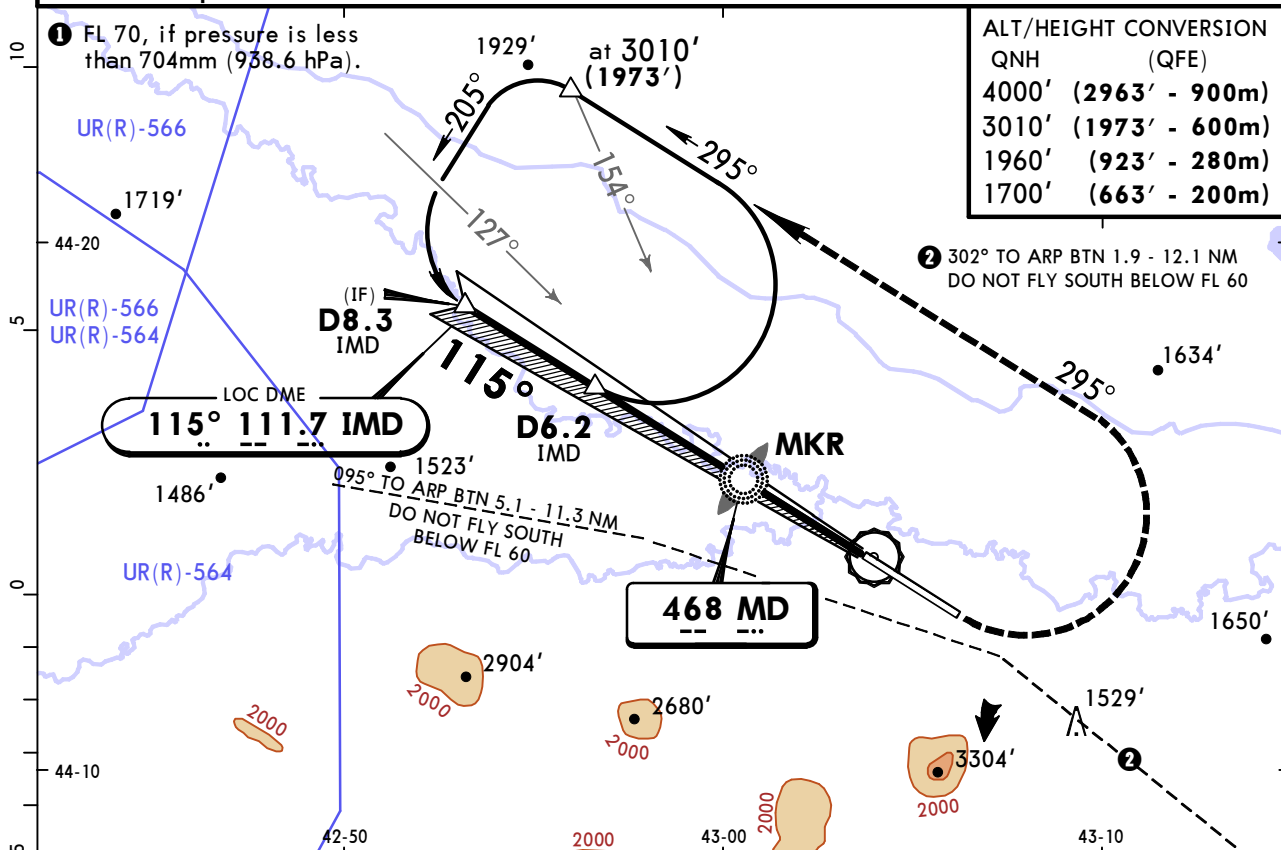
12 APR 19 11-3 Eff 25 Apr NDB LOC or NDB Rwy 12

BRIEFING STRIP™

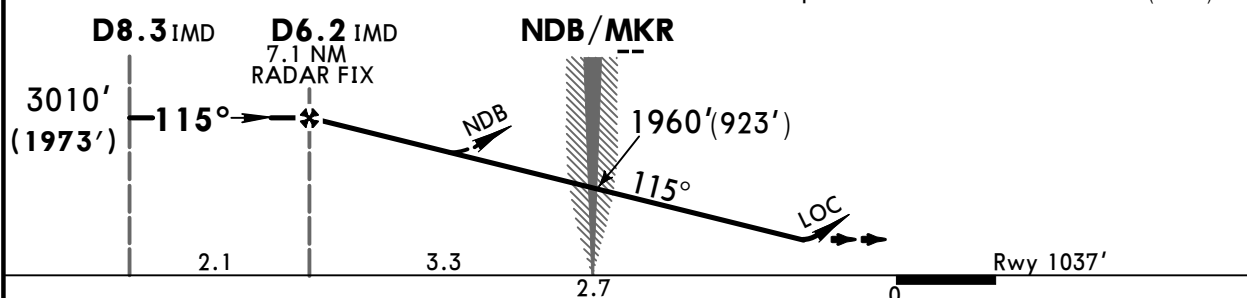
ATIS 125.25 (Russian 127.4)		MINERALNYE VODY Approach 119.3	MINERALNYE VODY Krug (TWR/R) 120.7	MINERALNYE VODY Start (TWR) 128.0	Ground 121.9
LOC IMD 111.7	Final Apch Crs 115°	Minimum Alt D6.2 IMD 3010'(1973')	LOC MDA(H) 1480'(443')	Apt Elev 1047' Rwy 1037'	
NDB MD 468			NDB MDA(H) 2900'(1863')		
MISSED APCH: Climb on 115° to 1700'(663'), then turn LEFT onto 295° climbing to 3010'(1973'), then as directed.					MSA MD NDB

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 4000' (2963')

LOC: NDB required.



NDB apch: Pass NDB not below 1960'(923').



Gnd speed-Kts	70	90	100	120	140	160	
LOC or NDB Desc Angle 3.00°	372	478	531	637	743	849	

STRAIGHT-IN LANDING RWY 12					
LOC		NDB			
MDA(H) 1480'(443')		MDA(H) 2900'(1863')			
ALS out		ALS out			
A		3200m			
B	1500m	2300m			
C			4000m	4800m	
D	RVR 1500m VIS 1600m	2400m	4400m		

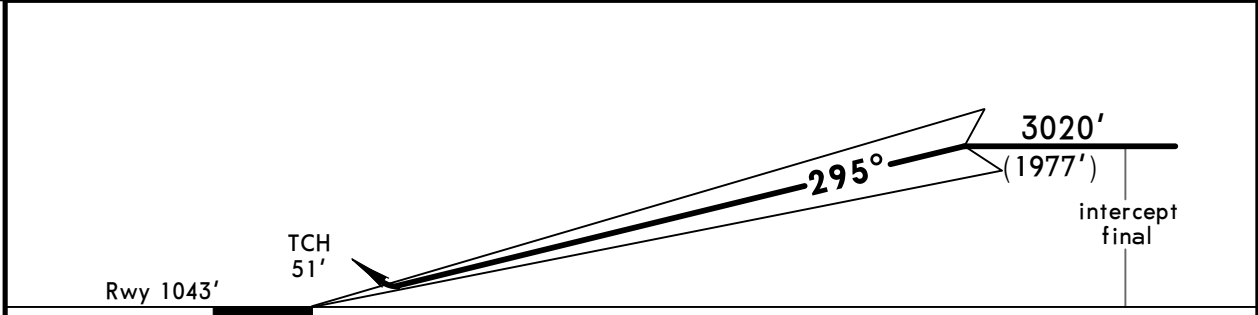
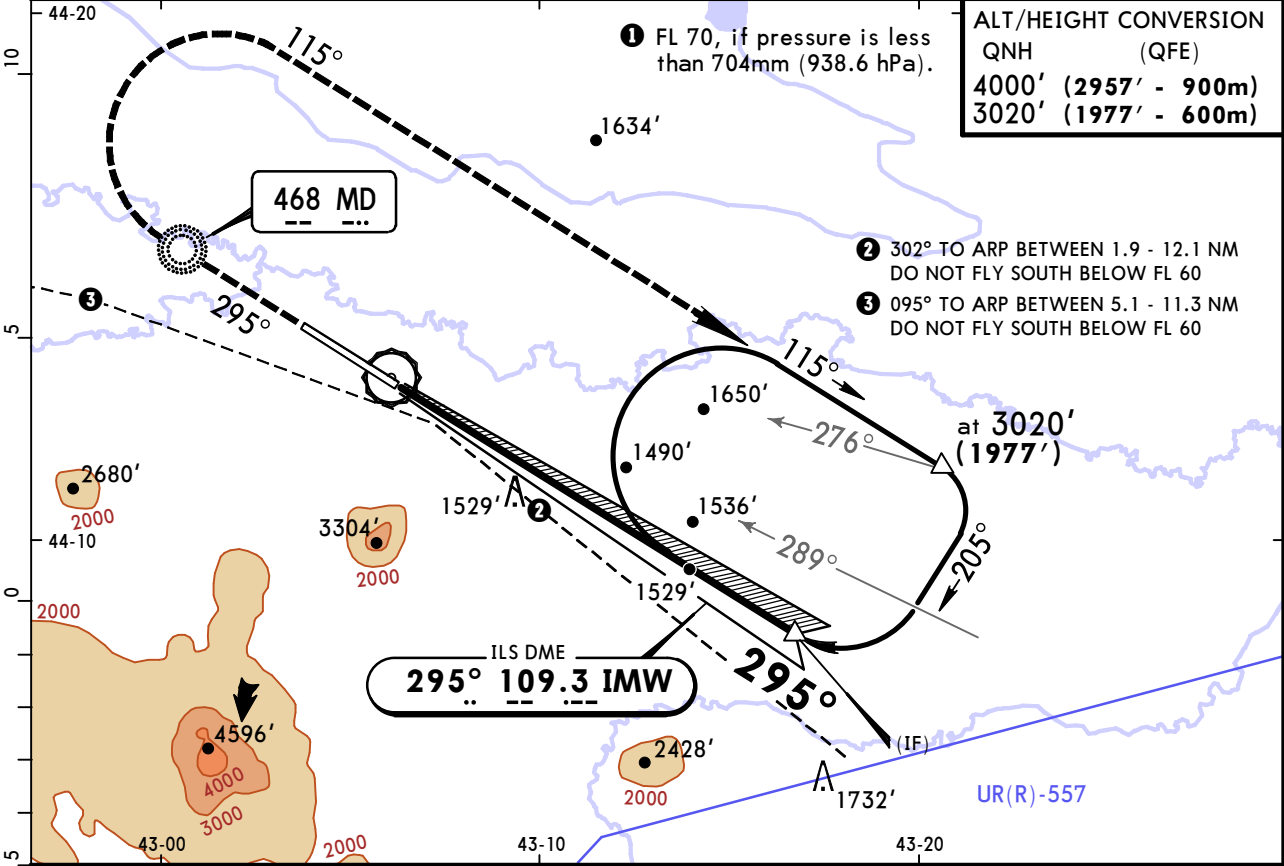
URMM/MRV
MINERALNYYE VODY

12 APR 19 11-4 Eff 25 Apr

JEPPESEN MINERALNYYE VODY, RUSSIA
ILS Z Rwy 30

ATIS 125.25 (Russian 127.4)	MINERALNYYE VODY Approach 119.3	MINERALNYYE VODY Krug (TWR/R) 120.7	MINERALNYYE VODY Start (TWR) 128.0	Ground 121.9
LOC IMW 109.3	Final Apch Crs 295°	GS No Altitude published	ILS DA(H) 1243'(200')	Apt Elev 1047' Rwy 1043'
MISSED APCH: Climb on 295° to NDB, then turn RIGHT onto 115° climbing to 3020'(1977'), then as directed.				 MSA MD NDB

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 4000' (2957')



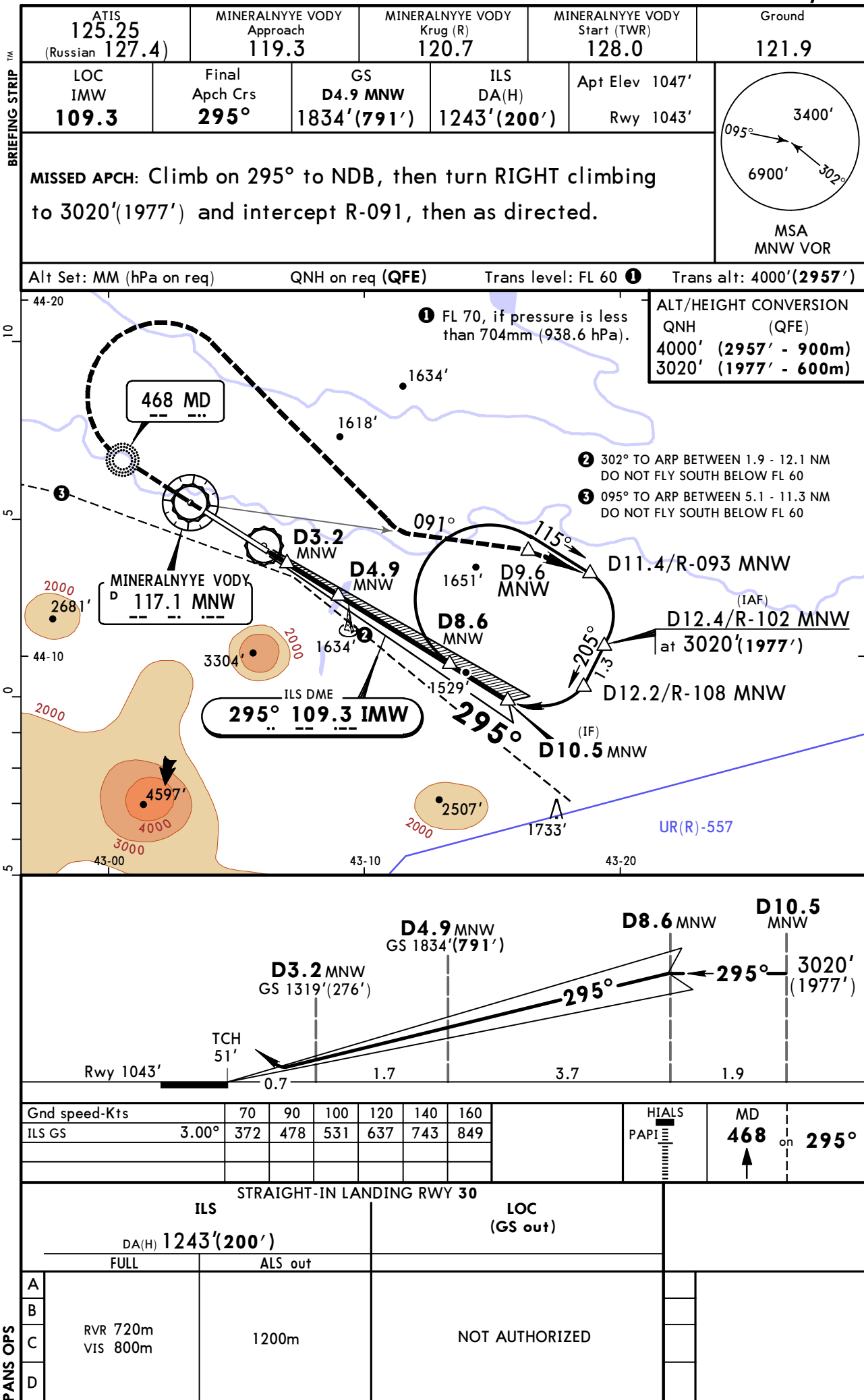
Gnd speed-Kts	70	90	100	120	140	160	 HIALS PAPI	MD 468 ↑ on 295°
GS	3.00°	372	478	531	637	743		

STRAIGHT-IN LANDING RWY 30 ILS			LOC (GS out)	
DA(H) 1243'(200')				
FULL		ALS out		
A				
B				
C	RVR 720m VIS 800m		NOT AUTHORIZED	
D				

URMM/MRV
MINERALNYYE VODY

16 OCT 15 (11-5)

JEPPESEN MINERALNYYE VODY, RUSSIA
VOR DME ILS Rwy 30



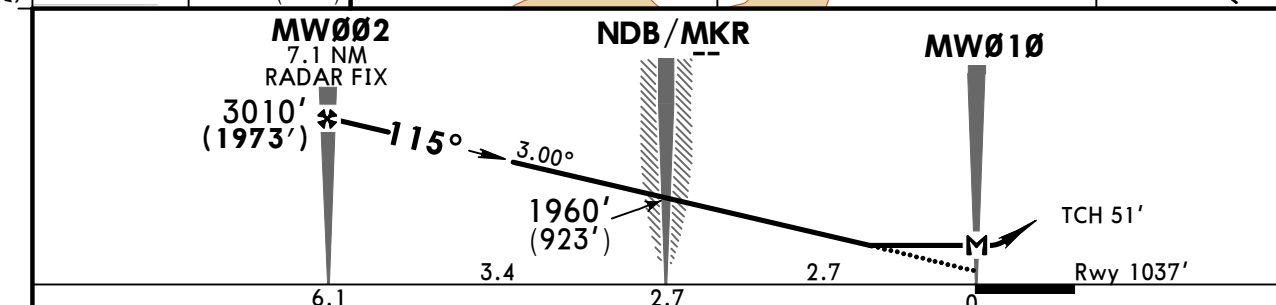
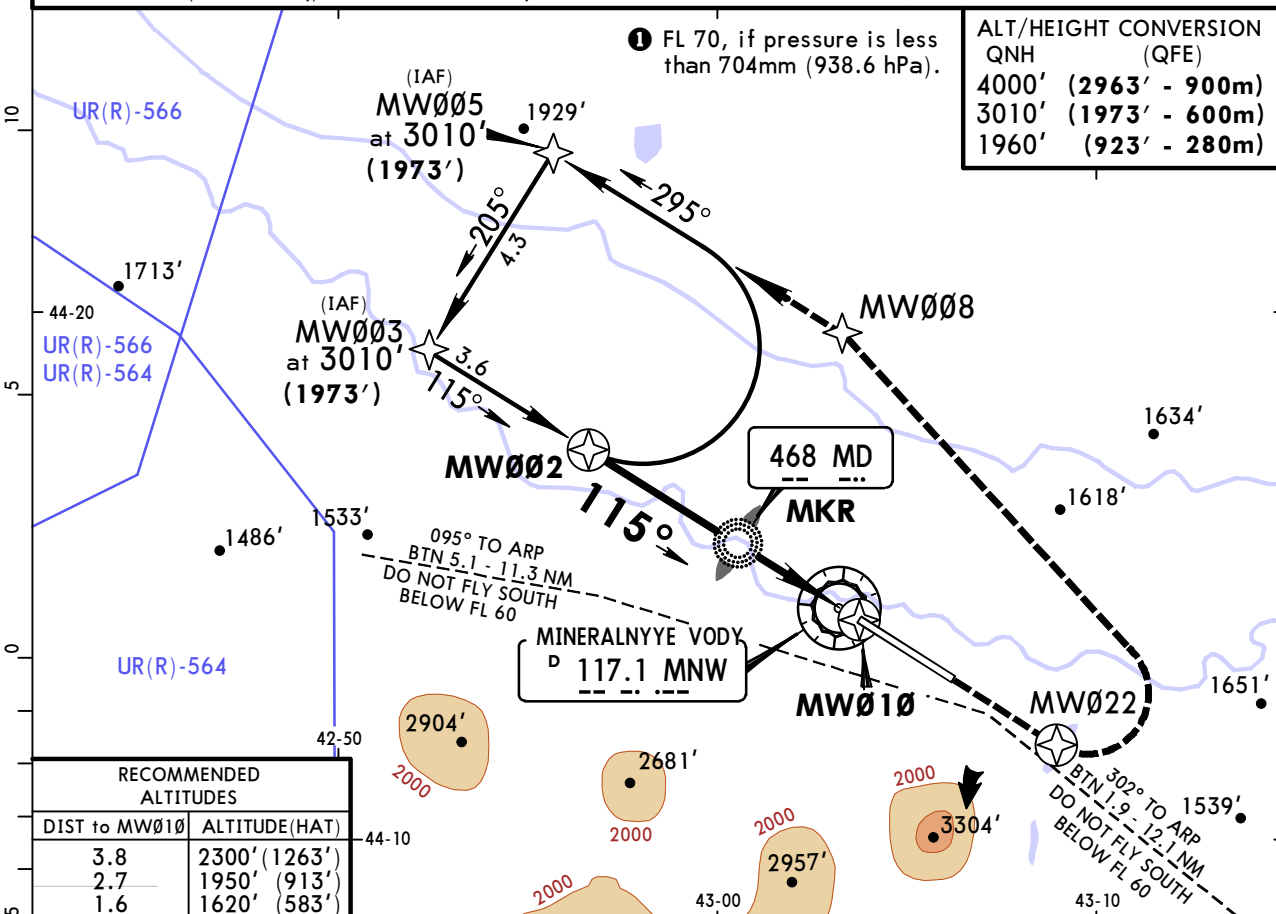
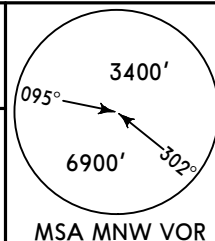
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URMM/MRV MINERALNYYE VODY

16 OCT 15 (12-1)

JEPPESSEN MINERALNYYE VODY, RUSSIA RNAV (GNSS) Rwy 12

ATIS 125.25 (Russian 127.4)	MINERALNYYE VODY Approach 119.3	MINERALNYYE VODY Krug (R) 120.7	MINERALNYYE VODY Start (TWR) 128.0	Ground 121.9
RNAV	Final Apch Crs 115°	Minimum Alt MW002 3010' (1973')	MDA(H) 1480' (443')	Apt Elev 1047' Rwy 1037'
MISSED APCH: Climb on 115° to MW022, then turn LEFT climbing to 3010' (1973') and proceed to MW008, then as directed.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 4000' (2963')				



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.00°	372	478	531	637	743	849
MAP at MW010						

STRAIGHT-IN LANDING RWY 12	
MDA(H) 1480' (443')	
ALS out	
A	RVR 720m VIS 800m
B	RVR 1500m VIS 1600m
C	RVR 1800m VIS 2000m
D	RVR 1500m VIS 1600m

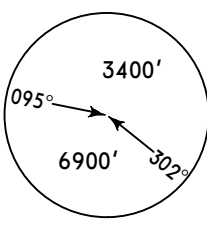
CHANGES: None.

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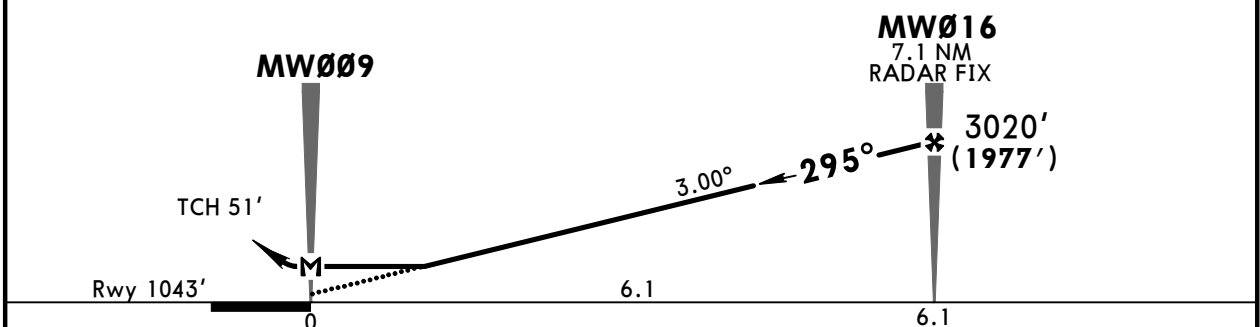
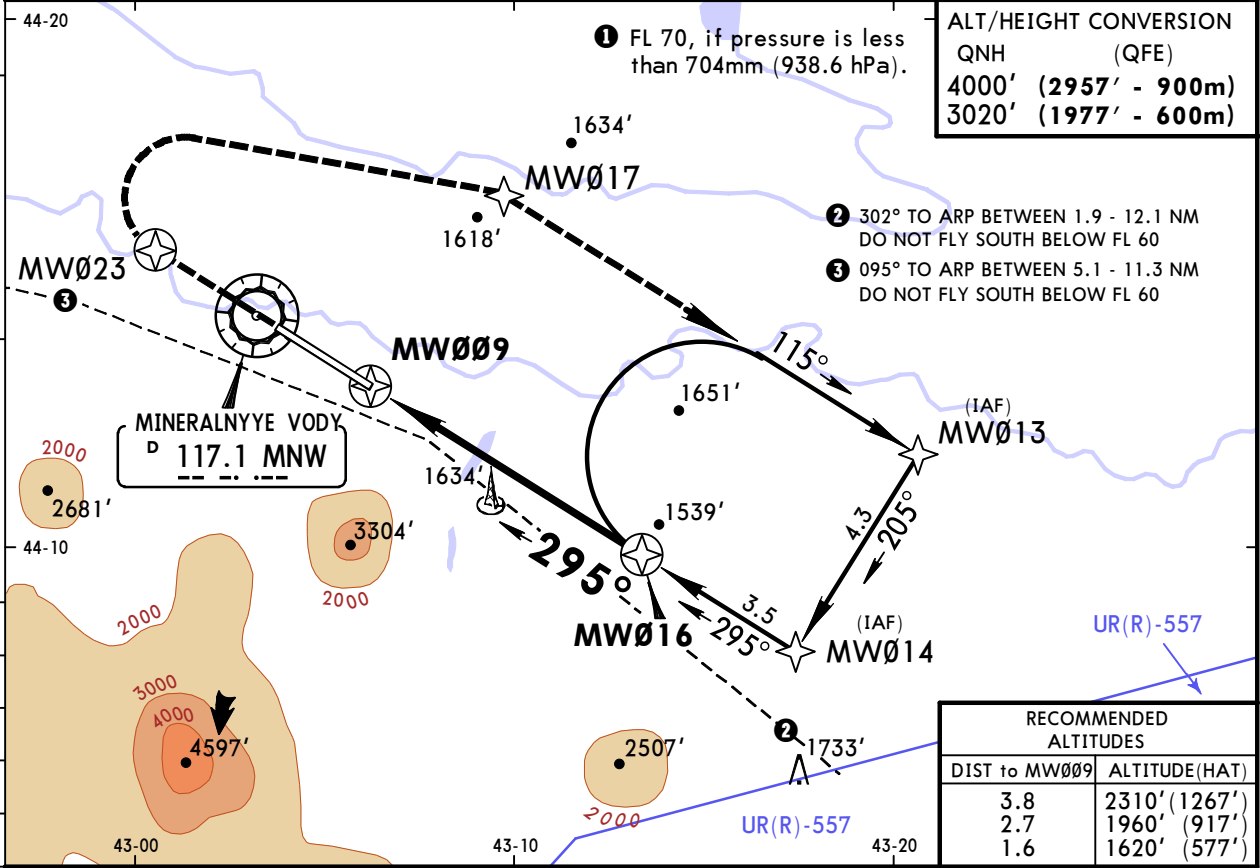
URMM/MRV
MINERALNYYE VODY

16 OCT 15 (12-2)

JEPPESSEN MINERALNYYE VODY, RUSSIA
RNAV (GNSS) Rwy 30

ATIS 125.25 (Russian 127.4)	MINERALNYYE VODY Approach 119.3	MINERALNYYE VODY Krug (R) 120.7	MINERALNYYE VODY Start (TWR) 128.0	Ground 121.9
RNAV	Final Apch Crs 295°	Minimum Alt MWØ16 3020'(1977')	MDA(H) 1460'(417')	Apt Elev 1047' Rwy 1043'
MISSED APCH: Climb on 295° to MWØ23, then turn RIGHT climbing to 3020'(1977') and proceed to MWØ17, then as directed.				 MSA MNW VOR

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 4000' (2957')



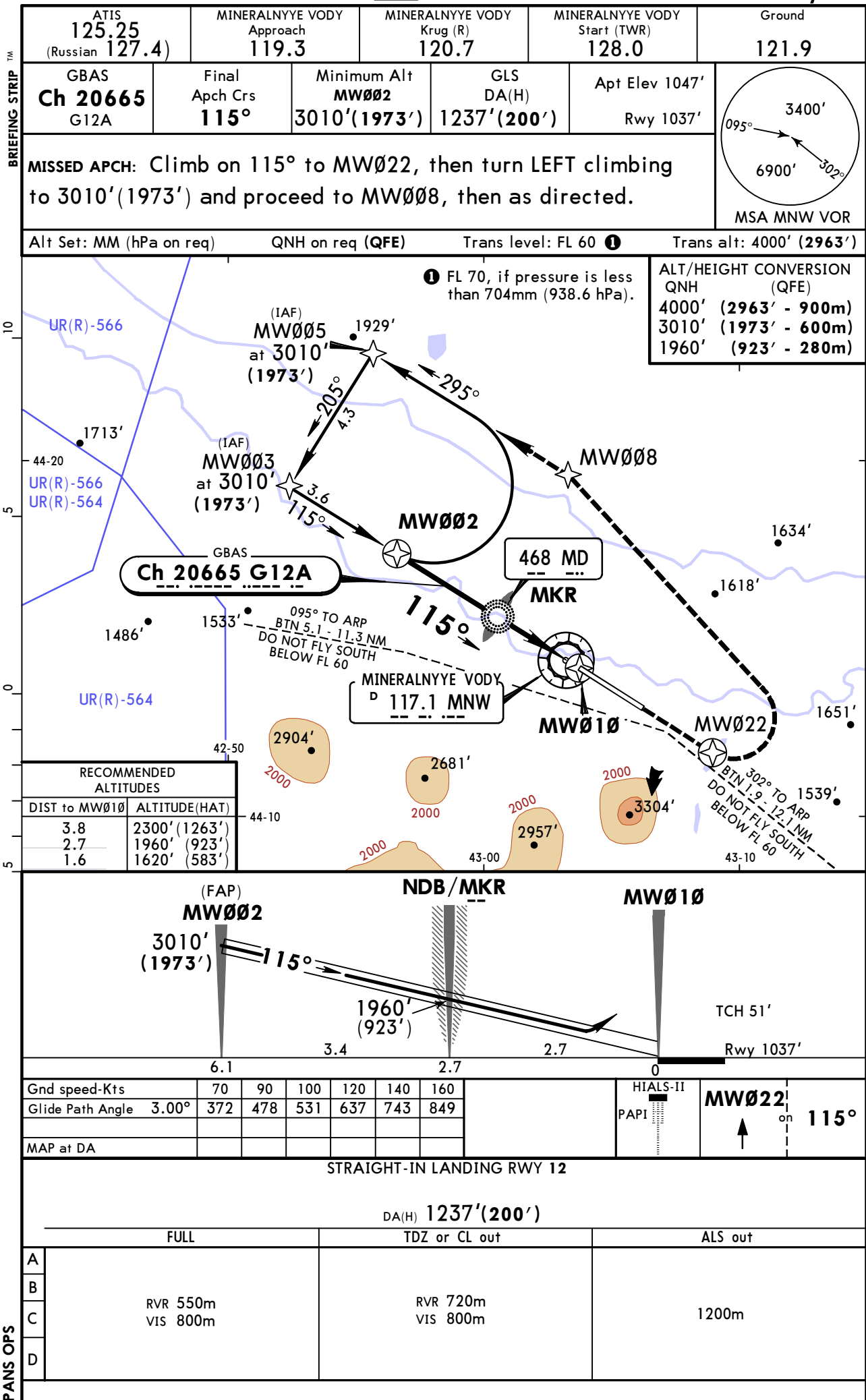
Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	MWØ23 295°
Descent Angle 3.00°	372	478	531	637	743	849		
MAP at MWØ09								

STRAIGHT-IN LANDING RWY 30	
MDA(H) 1460'(417')	
ALS out	
A	RVR 720m VIS 800m
B	RVR 1500m VIS 1600m
C	1200m
D	RVR 1500m VIS 1600m

URMM/MRV
MINERALNYYE VODY

16 OCT 15 12-40

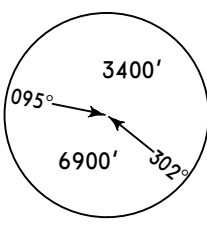
JEPPesen MINERALNYYE VODY, RUSSIA
GLS Rwy 12



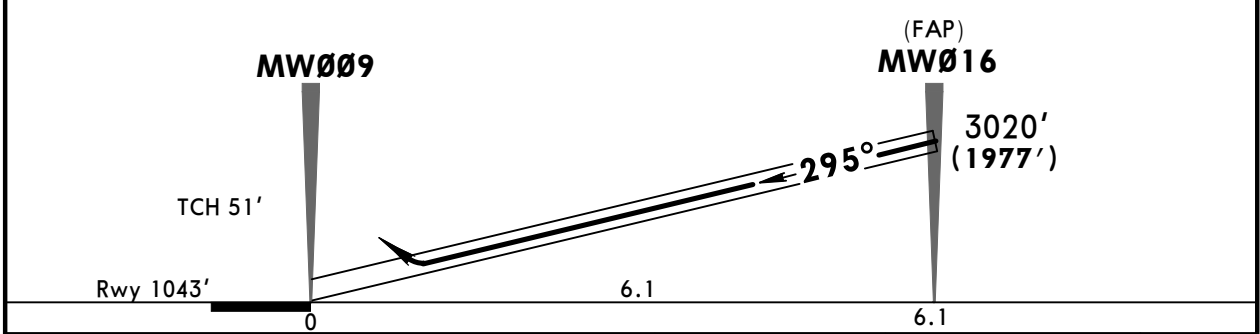
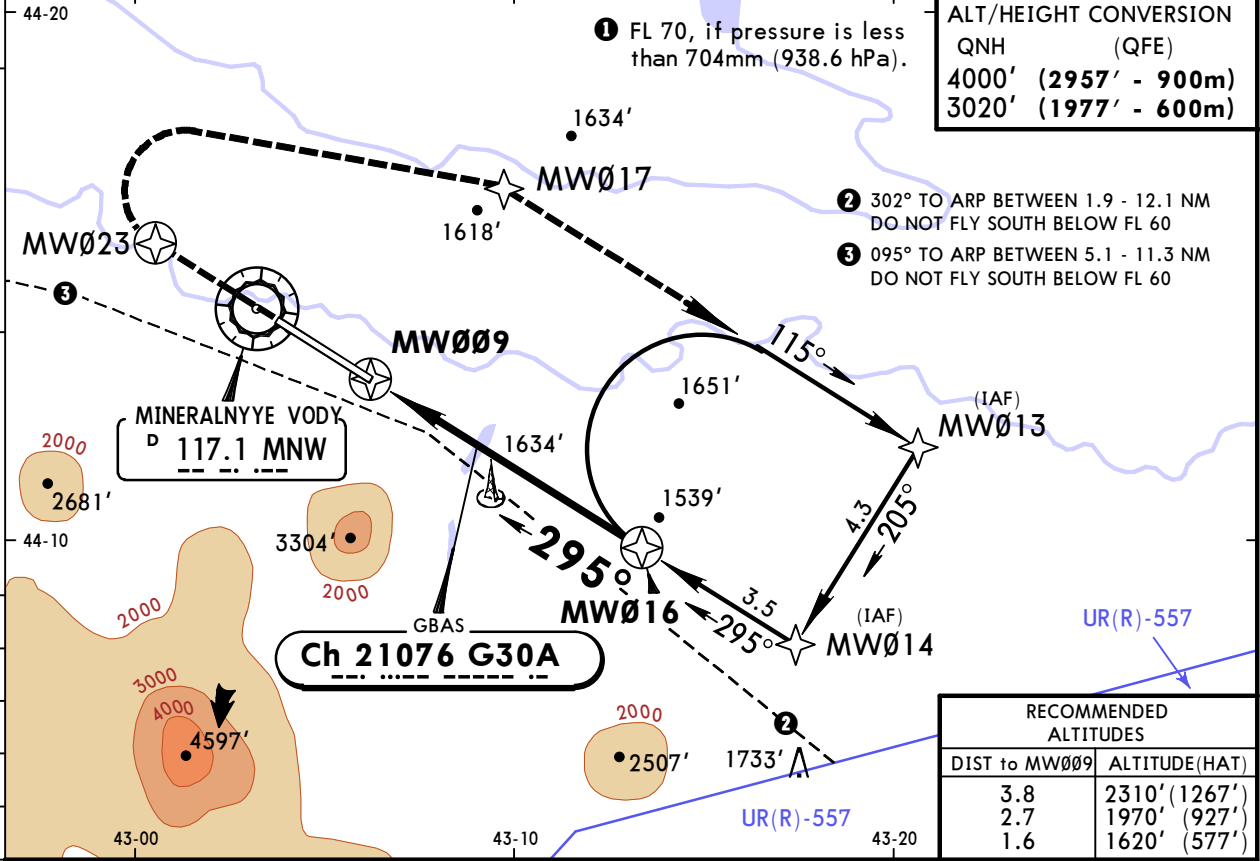
URMM/MRV
MINERALNYYE VODY

16 OCT 15 (12-41)

JEPPESEN MINERALNYYE VODY, RUSSIA
GLS Rwy 30

ATIS 125.25 (Russian 127.4)	MINERALNYYE VODY Approach 119.3	MINERALNYYE VODY Krug (R) 120.7	MINERALNYYE VODY Start (TWR) 128.0	Ground 121.9
GBAS Ch 21076 G30A	Final Apch Crs 295°	Minimum Alt MW016 3020'(1977')	GLS DA(H) 1243'(200')	Apt Elev 1047' Rwy 1043'
MISSED APCH: Climb on 295° to MW023, then turn RIGHT climbing to 3020'(1977') and proceed to MW017, then as directed.				 MSA MNW VOR

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 1 Trans alt: 4000' (2957')



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI MW023 295°
Glide Path Angle 3.00°	372	478	531	637	743	849	
MAP at DA							

STRAIGHT-IN LANDING RWY 30

DA(H) 1243'(200')	
FULL	ALS out
A	
B	
C	RVR 720m VIS 800m
D	1200m

URMM/MRV

MINERALNYE VODY

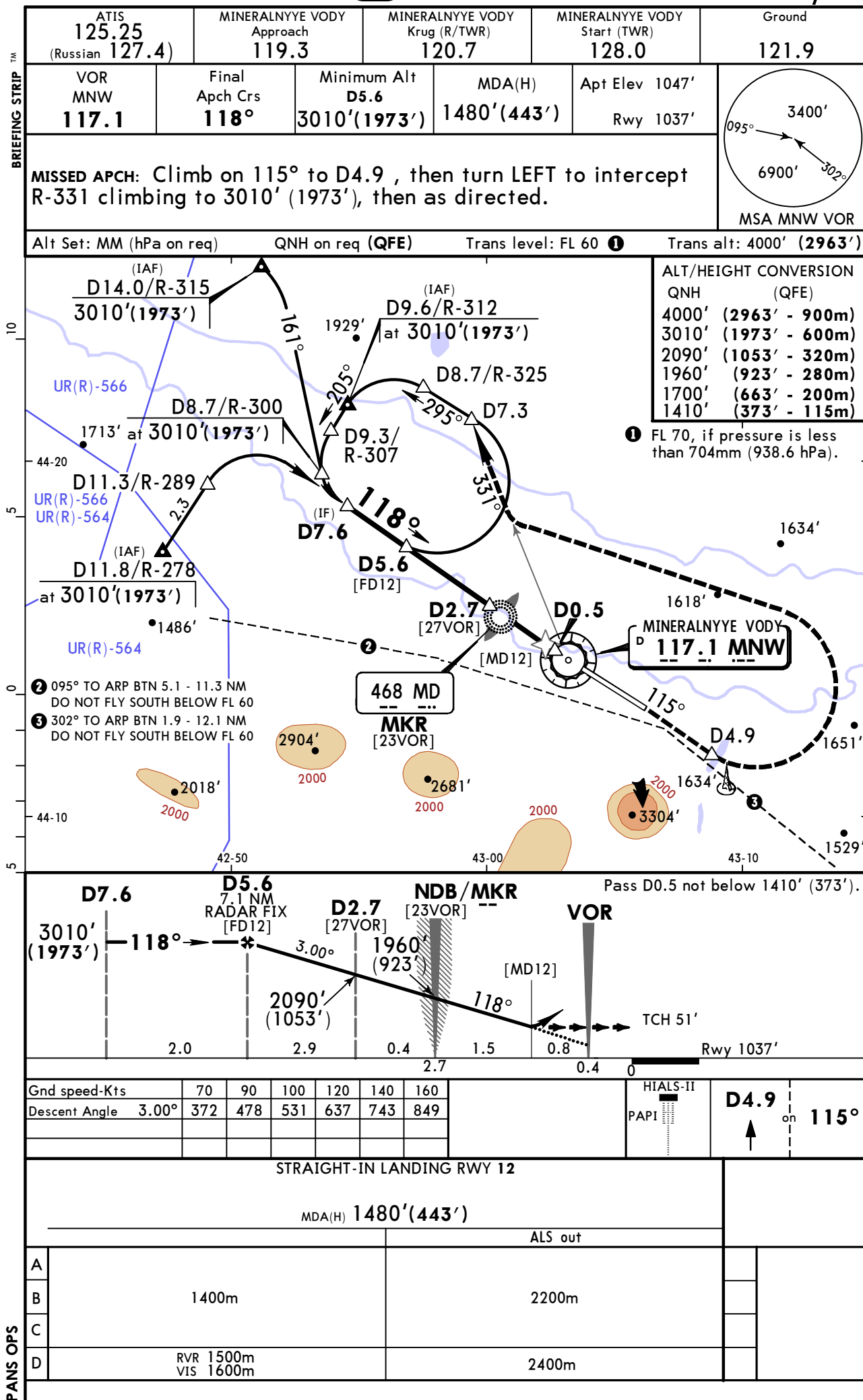
9 SEP 16

(13-1)

Eff 15 Sep

JEPPESSEN MINERALNYE VODY, RUSSIA

VOR DME Rwy 12



URMM/MRV

MINERALNYE VODY

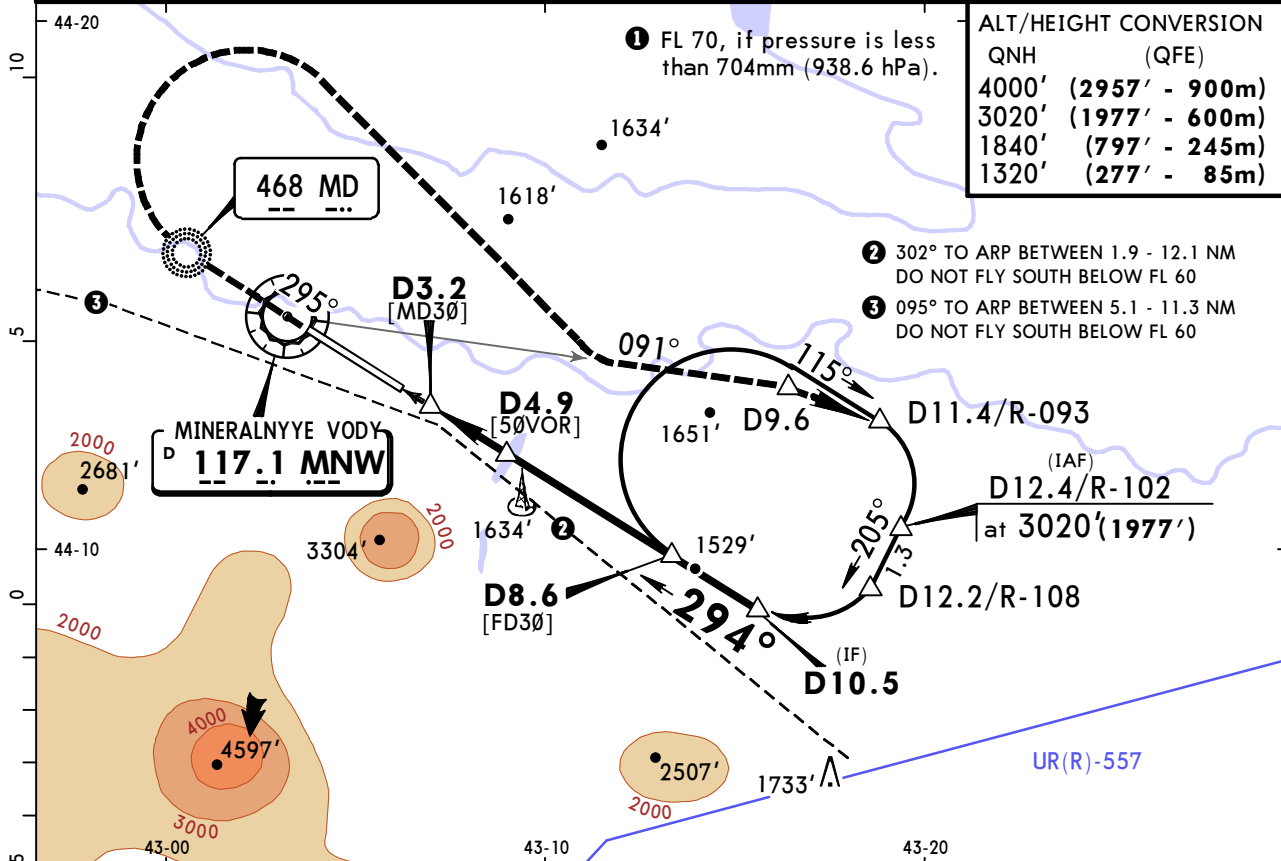
9 SEP 16 **13-2** Eff 15 Sep

JEPPesen MINERALNYE VODY, RUSSIA

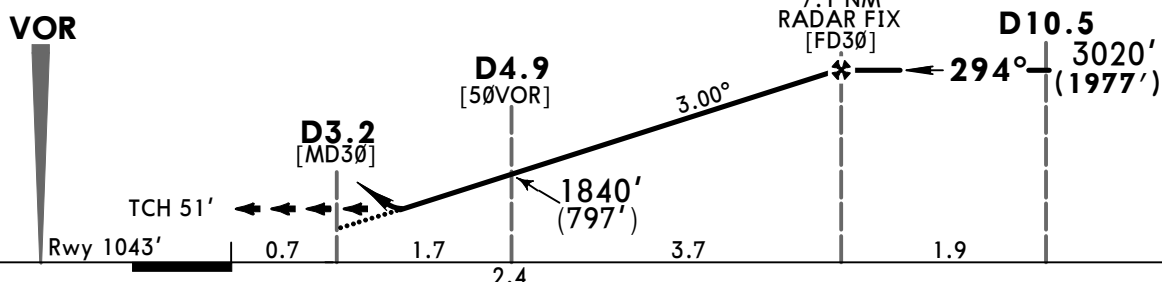
VOR DME Rwy 30

ATIS 125.25 (Russian 127.4)	MINERALNYE VODY Approach 119.3	MINERALNYE VODY Krug (R/TWR) 120.7	MINERALNYE VODY Start (TWR) 128.0	Ground 121.9
VOR MNW 117.1	Final Apch Crs 294°	Minimum Alt D8.6 3020' (1977')	MDA(H) (CONDITIONAL) 1560' (517')	Apt Elev 1047' Rwy 1043'
MISSED APCH: Climb on 295° to NDB, then turn RIGHT climbing to 3020' (1977') and intercept R-091, then as directed.				 MSA MNW VOR

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 4000' (2957')



Pass D3.2 not below 1320' (277').



Gnd speed-Kts	70	90	100	120	140	160	HIALS	MD	468	on	295°
Descent Angle	3.00°	372	478	531	637	743	PAPI				

STRAIGHT-IN LANDING RWY 30

	with FAF	w/o FAF	
	MDA(H) 1560' (517')	MDA(H) 1850' (807')	
A	ALS out	ALS out	
B	1900m	2700m	3200m
C			3600m
D	RVR 1800m VIS 2000m	2800m	4000m

CHANGES: Communications.

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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
MINERALNYYE VODY, (MINERALNYYE VODY - URMM)				

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport URMM