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Terminal Charts For UUDL

Revision Letter For Cycle 08-2026

Change Notices

Notebook

General Information

Location: YAROSLAVL RUS
ICAO/IATA: UUDL / IAR
Lat/Long: N57° 33.63', E040° 09.45'
Elevation: 305 ft

Airport Use: Public
Daylight Savings: Not Observed
UTC Conversion: -3:00 = UTC
Magnetic Variation: 12.0° 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: 0121 Z
Sunset: 1712 Z

Runway Information

Runway: 05
Length x Width: 9875 ft x 144 ft
Surface Type: asphalt
TDZ-Elev: 292 ft
Lighting: Edge, ALS

Runway: 23
Length x Width: 9875 ft x 144 ft
Surface Type: asphalt
TDZ-Elev: 305 ft
Lighting: Edge, ALS

Communication Information

ATIS: 127.350
Yaroslavl Tower: 124.000 Secondary
Yaroslavl Tower: 120.300
Yaroslavl Tower: 120.000
Yaroslavl Start Tower: 120.800

UUDL/IAR
TUNOSHNA

JEPPESEN

21 OCT 22

10-1P

Eff 3 Nov

YAROSLAVL, RUSSIA
AIRPORT BRIEFING**1. GENERAL****1.1. ATIS**

ATIS 127.35

1.2. COMMUNICATION FAILURE PROCEDURES

In case of radio communication failure, follow radio communication failure procedures set forth in ICAO Annex 2 and the State Rules and Procedures of Russia for Emergency in the Airway Manual.

1.3. NOISE ABATEMENT PROCEDURES

Noise abatement procedures during take-off, climb and approach shall be carried by all ACFT, but not at the expense of flight safety.

Maintain the assigned SID and STAR and in case of deviation - join the assigned track immediately.

Compliance with the required noise abatement procedures shall not be carried out:

- If there is ice, slush, water or mud on the RWY and the friction coefficient is 0.4 or less.
- Under meteorological conditions when ceiling is lower than 150m or the horizontal visibility is less than 1800m.
- When crosswind component on RWY (including gusts) exceeds 7m/s.
- When tailwind component on RWY exceeds 2.5 m/s.
- When wind shear is reported or forecasted, or when adverse weather conditions (e.g. thunderstorms) can affect the approach and landing of ACFT.

Heights of training flights performed by A, B, C class ACFT and testbed ACFT flight shall not be less the circle height. Circle of flights is RIGHT for landing heading 051° MAG and LEFT for landing heading 231° MAG.

1.3.1. USE OF RWY SYSTEM IN DAYTIME

The RWY is used according to the schedule of ACFT movement at the APT.

RWY 23 is the main (preferred) RWY that is used, if possible, to the maximum extent for ACFT take-off and landing.

1.3.2. USE OF RWY SYSTEM AT NIGHT

The RWY is used according to the schedule of ACFT movement at the APT, minimizing the performance of flights of the noisiest types of ACFT at NIGHT.

RWY 23 is the main (preferred) RWY that is used, if possible, to the maximum extent for ACFT take-off and landing.

Daily from 2300-0700LT, restrictions have been introduced for take-off and landing of the following ACFT types: Tu-134, Tu-154, Il-86, Il-76, An-12 and An-26, which do not meet noise level requirements of ICAO Annex 16, except special, medical and emergency rescue flights.

1.4. LOW VISIBILITY PROCEDURES (LVP)

LVP are applied, when RVR is 550 m or less.

Flight crews are informed about LVP implementation via ATIS or by ATS unit by following phrase: "Low visibility procedures in progress".

When RVR is 550m or less, TWR controller informs the flight crews: "Low visibility procedures in progress".

ACFT shall taxi strictly along the TWY centerline and taxi routes on the apron.

Flight crew shall report RWY vacation to TWR controller only after the ACFT crosses RWY holding position on TWY B and E.

The responsibility for RWY incursion and non-adherence of the assigned taxi routes on the maneuvering area is imposed on the flight crew.

When LVP are in progress, it is prohibited:

- to take off not from the RWY beginning;
- to take off without stop at line-up position after taxiing onto the RWY.

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21 OCT 22

10-1P1

Eff 3 Nov

YAROSLAVL, RUSSIA

AIRPORT BRIEFING

1. GENERAL

1.5. TAXIING PROCEDURES

Taxiing and towing shall be carried out by the clearance of TWR controller strictly along the marking of the MAIN TWY, RWY, apron in accordance with taxi patterns.

ACFT with MTOM of 100 tons or greater shall carry out turns on RWY turn pads only.

1.6. PARKING INFORMATION

Taxiing and towing into stands by TWR controller's permission and managed by person in charge of ground support service.

Taxiing out of stands managed by person in charge of ground support service.

De-icing is performed on stands.

Stands 1 thru 4, 6 thru 12, 15 and 16 are designated for helicopters.

1.7. OTHER INFORMATION

RWY width is less than the required standard.

Birds in vicinity of APT.

2. ARRIVAL

2.1. COMMUNICATION FAILURE PROCEDURES

Continue the flight maintaining flight route and profile of the RNAV STAR (the shortest STAR) to the maximum extent.

Execute approach in accordance with the established procedure (the shortest STAR).

If deviation from the specified procedure is required, set transponder to code 7700.

In case a decision to land at the departure aerodrome was taken, execute approach in accordance with the established procedure.

In case a decision to proceed to an alternate aerodrome was taken, enter SID which is the nearest in the direction of the alternate aerodrome and continue the flight maintaining flight route and profile of the RNAV SID.

After joining AWY, continue climbing to flight level specially established for flight without radio communication (FL140, FL150, FL240, FL250).

2.1.1. AFTER MISSED APPROACH

Continue the flight maintaining flight route and profile of the missed approach procedure to the maximum extent to the nearest holding area.

At the entrance to the holding area, reach published lower altitude, burn out fuel, if necessary.

2.2. NOISE ABATEMENT PROCEDURES

When executing approach, flight crews shall apply procedures envisaged in the ACFT Flight Manual provided that approach to RWY is carried out with a clean wing and subsequent extension of the landing gear and flaps (to the intermediate angle) before intercepting the GP and further extension of flaps on the GP.

Special attention should be paid to the requirement of the necessity to maintain the same operation mode of all engines during approach which leads to noticeable noise reduction.

When executing instrument and visual approach, flying below the ILS GP is PROHIBITED.

No noise abatement procedures must envisage exceeding of the indicated speed of descent.

A displaced RWY THR shall not be used as a noise abatement measure.

Reverse thrust after landing shall not be used at NIGHT if possible.

3. DEPARTURE

3.1. START-UP PROCEDURES

ACFT take-off shall normally be carried out from the RWY beginning.

It is permitted to carry out take-off from TWY B on take-off heading 050° MAG or TWY E on take-off heading 230° MAG, if the declared distances of the RWY from the start of roll position comply with distances required for the actual take-off mass of ACFT and take-off instructions.

Engines start-up shall be carried out upon request and clearance of TWR controller and managed by person in charge of ground support service.

3.2. NOISE ABATEMENT PROCEDURES

Noise abatement procedures shall not be applied in case of one of the ACFTs engines failure.

During take-off noise abatement procedures must be applied:

- Take-off shall be performed according to the Aeroplane Flight Manual, for the specified type of ACFT, for noise abatement over terrain.
- After take-off follow the established SID unless otherwise instructed by ATC. The initial turn shall be performed at a distance prescribed by SID route.
- In case of incomplete loading of ACFT, take-off is recommended to be performed at rated engine operation mode.
- NADP 1 is applied.

3.3. COMMUNICATION FAILURE PROCEDURES

Continue the flight maintaining flight route and profile of RNAV SID to the maximum extent.

In case a decision to return to the aerodrome of departure was taken:

- Proceed to SID termination fix, then turn left to the nearest holding area at height published for SID termination.
- At the entrance to the holding area, reach published lower altitude, burn out fuel, if necessary.
- Execute approach in accordance with the established procedure.

In case a decision to proceed to the destination aerodrome was taken, after joining AWY from SID, continue climbing to the flight level indicated in the flight plan.

In case a decision to proceed to the alternate aerodrome was taken:

- Continue the flight maintaining flight route and profile of RNAV SID to the maximum extent.
- After joining AWY, continue climbing to flight level specially established for flight without radio communication (FL140, FL150, FL240, FL250).
- If deviation from the specified procedure is required, flight crew must set transponder to code 7700.

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YAROSLAVL, RUSSIA

25 OCT 24 **10-1R**

Eff 31 Oct

RADAR MINIMUM ALTITUDES

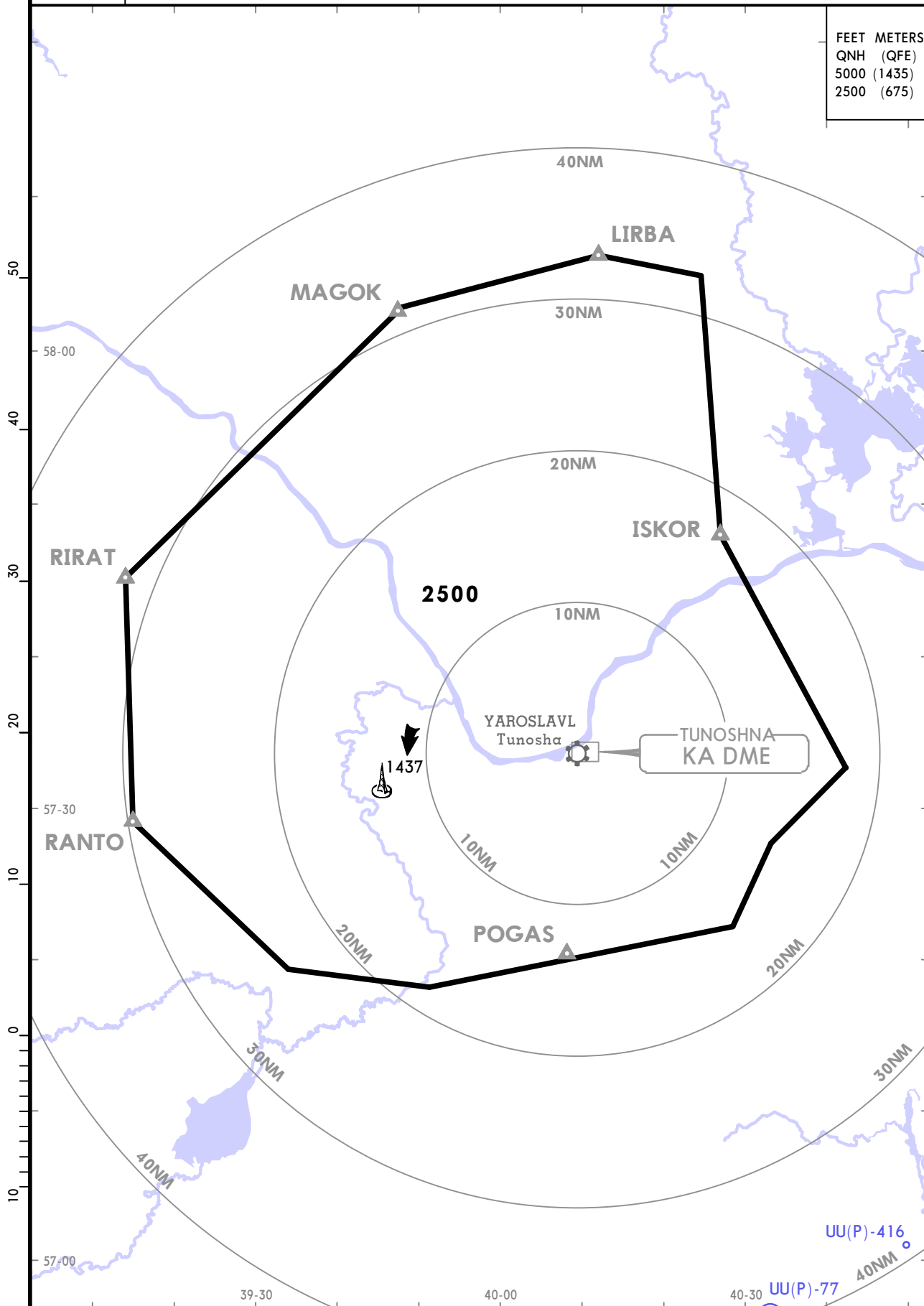
Apt Elev
305

Alt Set: hPa (MM on request)
Trans level: FL060
FL070 if pressure is less than 1013 hPa (760 mm)
FL080 if pressure is less than 977 hPa (733 mm)

Trans alt: 5000

1. The chart may only be used for cross-checking of altitudes assigned while the acft is identified under RADAR control.
2. Flight levels assigned by ATC include a correction for low temperature effect, if required.

FEET METERS
QNH (QFE)
5000 (1435)
2500 (675)



CHANGES: Radar sectors revised.

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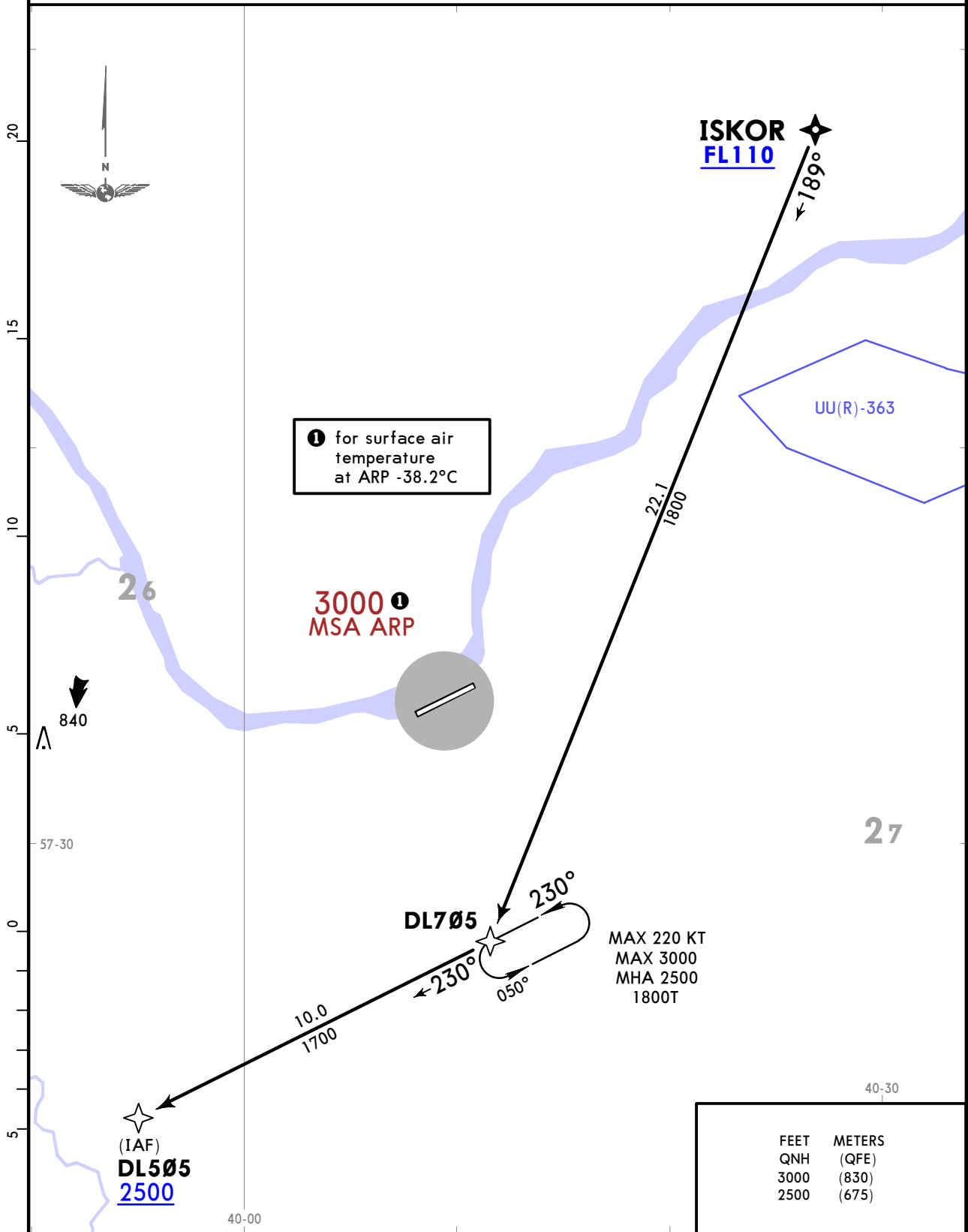
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JEPPESEN
25 OCT 24 10-2 Eff 31 Oct

YAROSLAVL, RUSSIA
RNAV STAR

ATIS 127.350	Apt Elev 305	Alt Set: hPa (MM on request) Trans level: FL060 FL070 if pressure is less than 1013 hPa (760 mm) FL080 if pressure is less than 977 hPa (733 mm)
		RNAV 1 GNSS required
		UU(R)-363 may affect RNAV STAR.

ISKOR 2N [ISK02N] RNAV ARRIVAL (RWY 05)



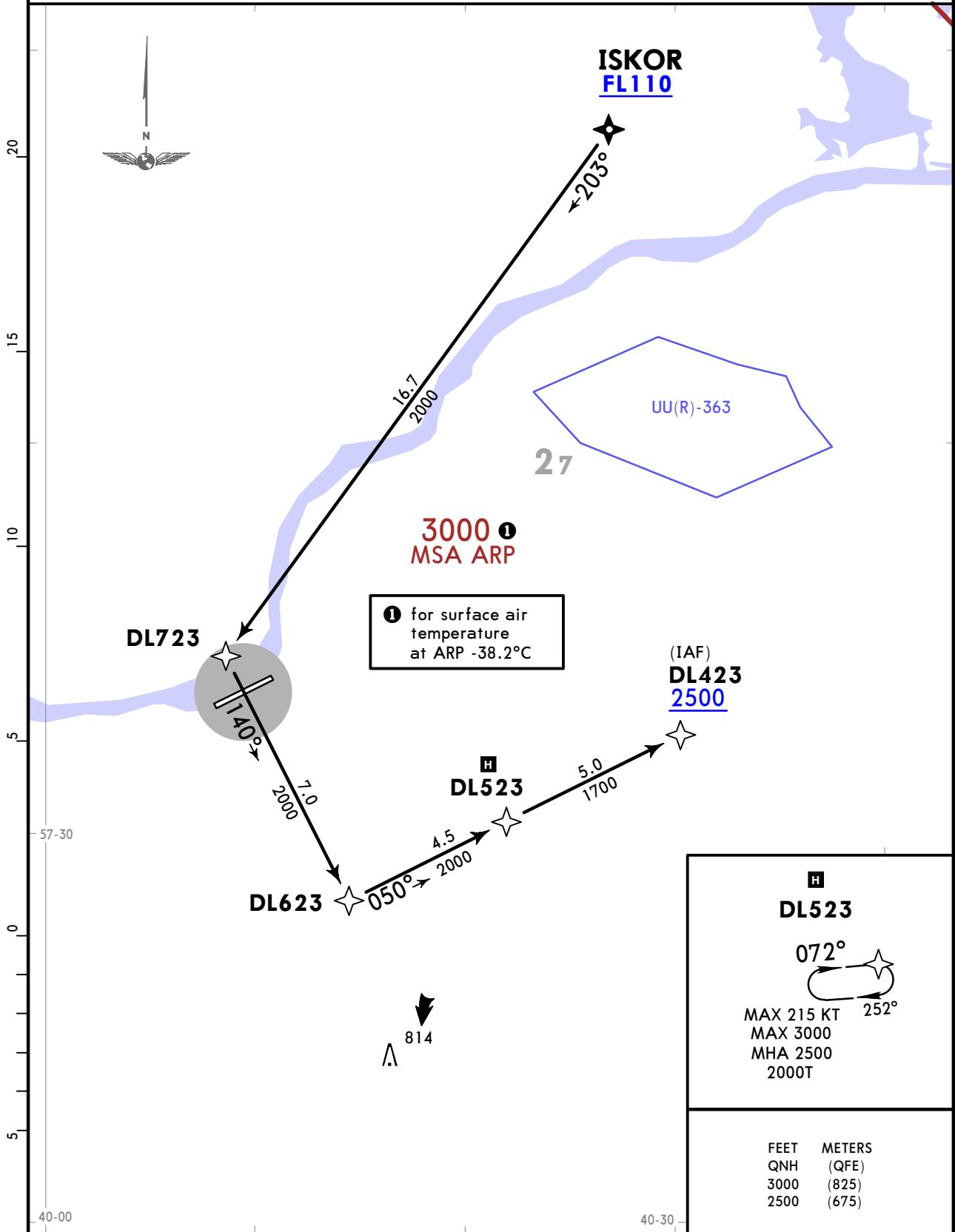
UUDL/IAR
TUNOSHNA

JEPPESEN
25 OCT 24 (10-2A) Eff 31 Oct

YAROSLAVL, RUSSIA
RNAV STAR

ATIS 127.350	Apt Elev 305	Alt Set: hPa (MM on request) Trans level: FL060 FL070 if pressure is less than 1013 hPa (760 mm) FL080 if pressure is less than 977 hPa (733 mm)
		RNAV 1 GNSS required
		UU(R)-363 may affect RNAV STAR.

ISKOR 2P [ISK02P]
RNAV ARRIVAL
(RWY 23)



UUDL/IAR
TUNOSHNA

JEPPESSEN

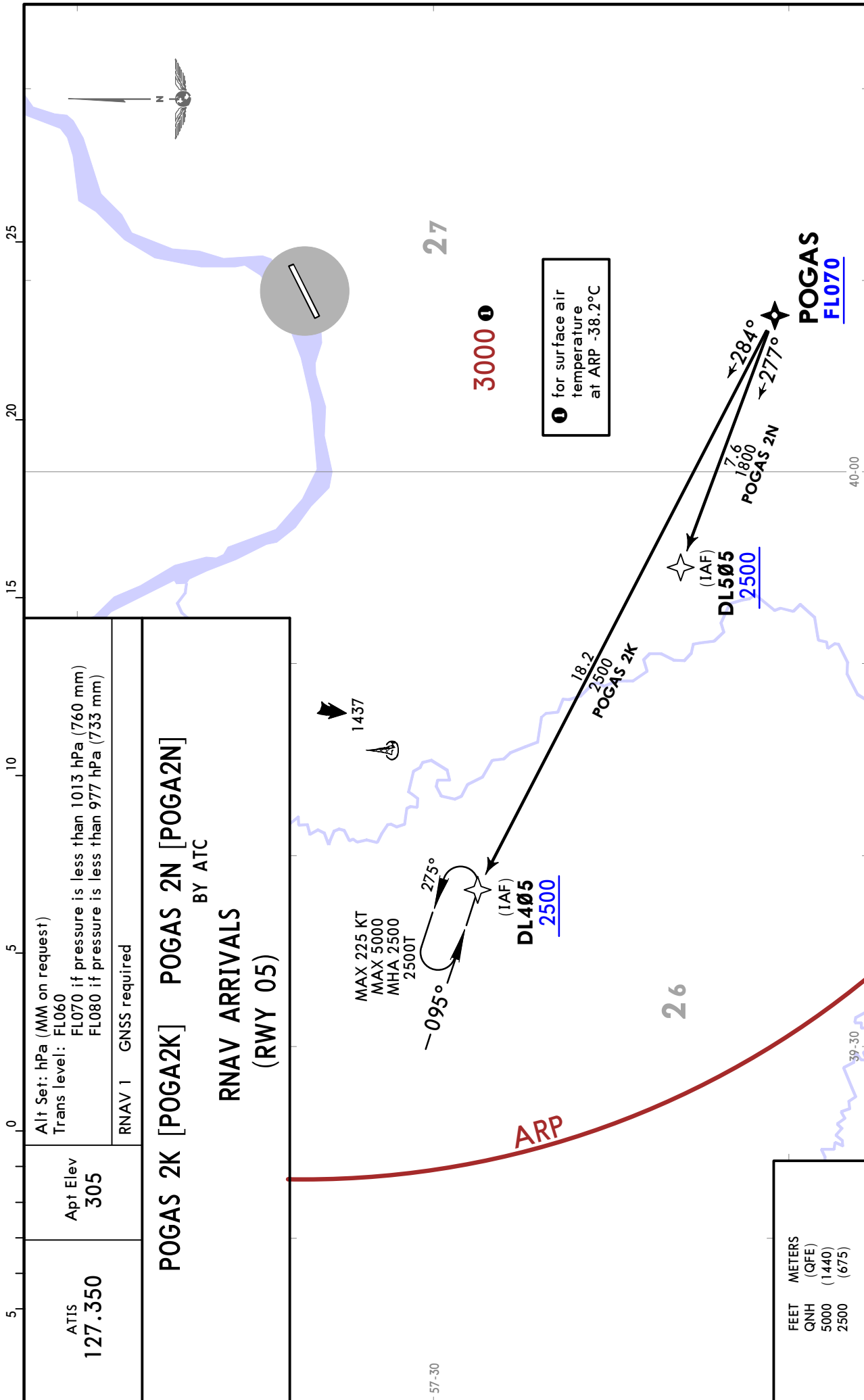
YAROSLAVL, RUSSIA

25 OCT 24

10-2B

Eff 31 Oct

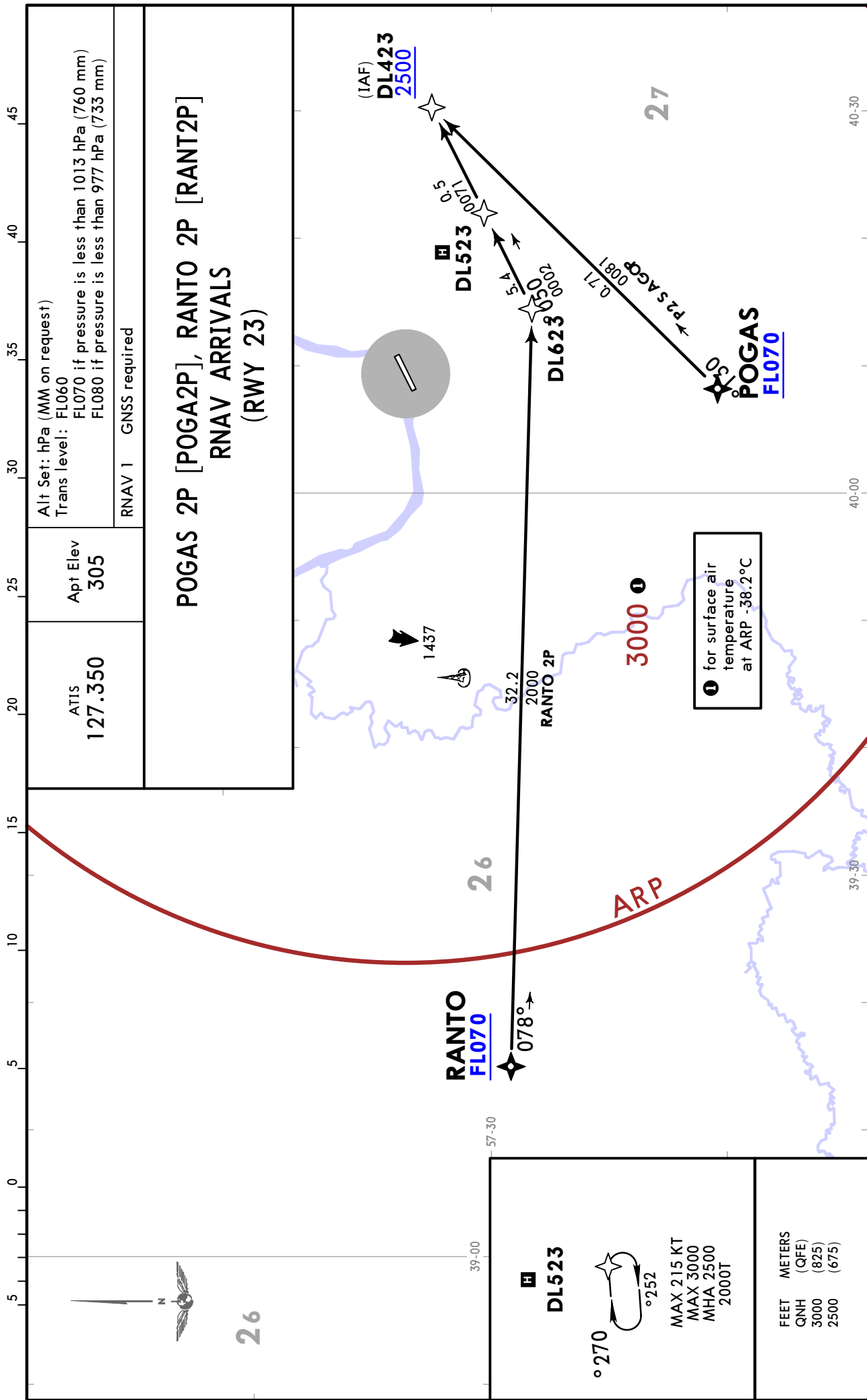
RNAV STAR



UUDL/IAR
TUNOSHNA

JEPPESSEN
25 OCT 24 10-2C Eff 31 Oct

YAROSLAVL, RUSSIA
RNAV STAR



CHANGES: Track update, MEAs, MOCA.

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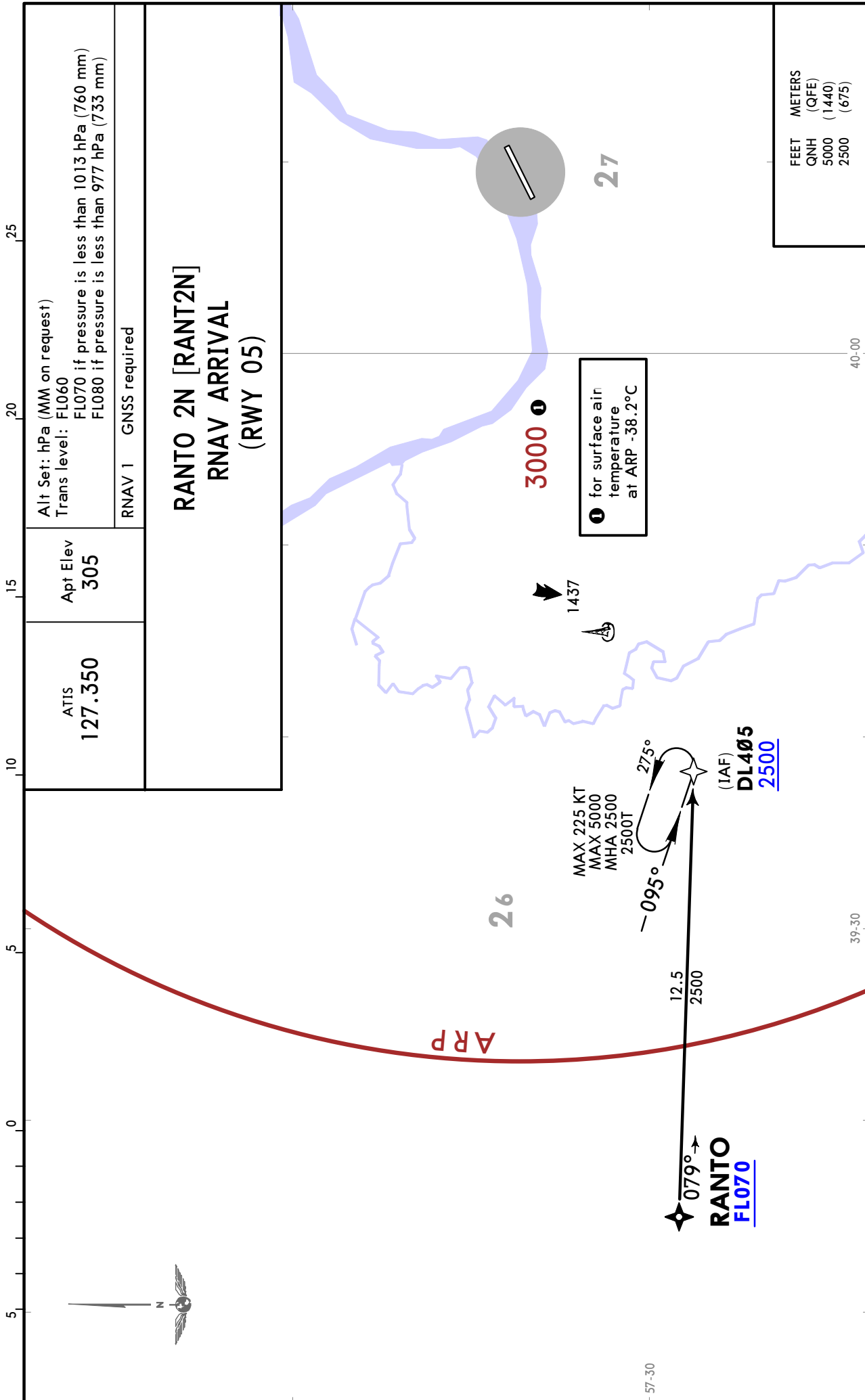
YAROSLAVL, RUSSIA

25 OCT 24

10-2D

Eff 31 Oct

RNAV STAR



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YAROSLAVL, RUSSIA

25 OCT 24 (10-2E)

Eff 31 Oct

RNAV STAR

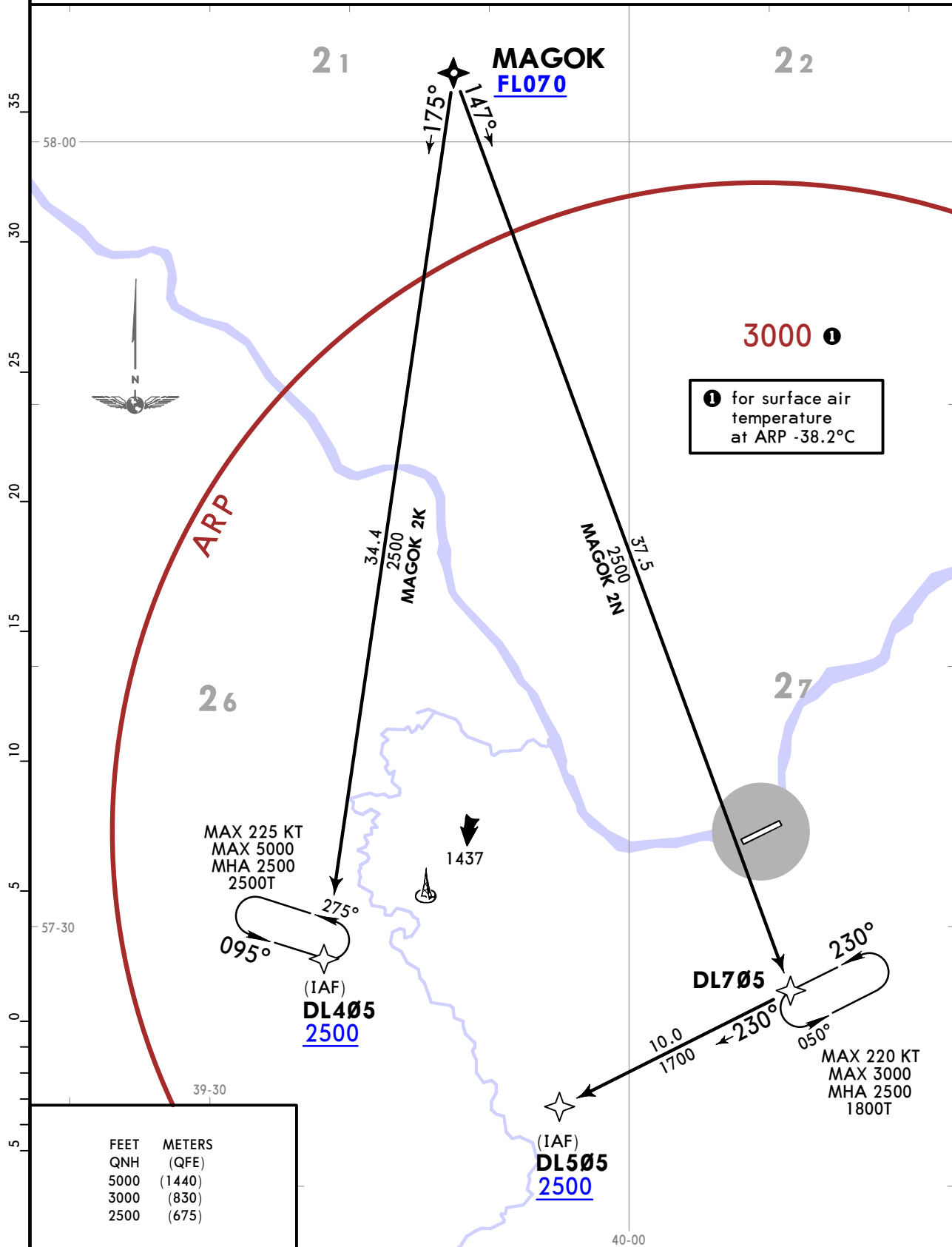
ATIS
127.350

Apt Elev
305

Alt Set: hPa (MM on request)
Trans level: FL060
FL070 if pressure is less than 1013 hPa (760 mm)
FL080 if pressure is less than 977 hPa (733 mm)

RNAV 1 GNSS required

MAGOK 2K [MAGO2K], MAGOK 2N [MAGO2N]
RNAV ARRIVALS
(RWY 05)



CHANGES: Track update.

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TUNOSHNA

JEPPESEN
25 OCT 24 (10-2F) Eff 31 Oct

YAROSLAVL, RUSSIA
RNAV STAR

ATIS
127.350

Apt Elev
305

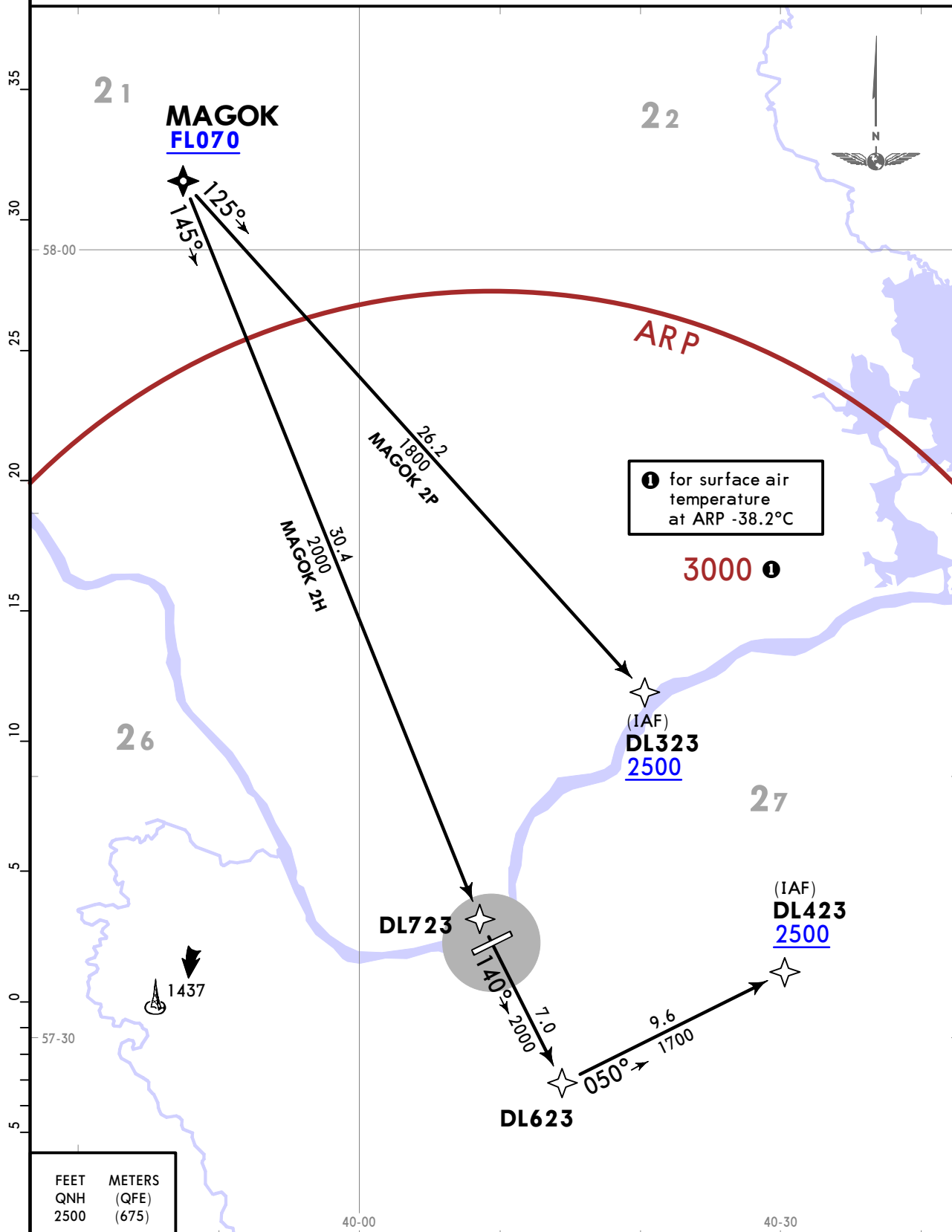
Alt Set: hPa (MM on request)
Trans level: FL060
FL070 if pressure is less than 1013 hPa (760 mm)
FL080 if pressure is less than 977 hPa (733 mm)

RNAV 1 GNSS required

MAGOK 2H [MAGO2H]

MAGOK 2P [MAGO2P]
BY ATC

RNAV ARRIVALS
(RWY 23)



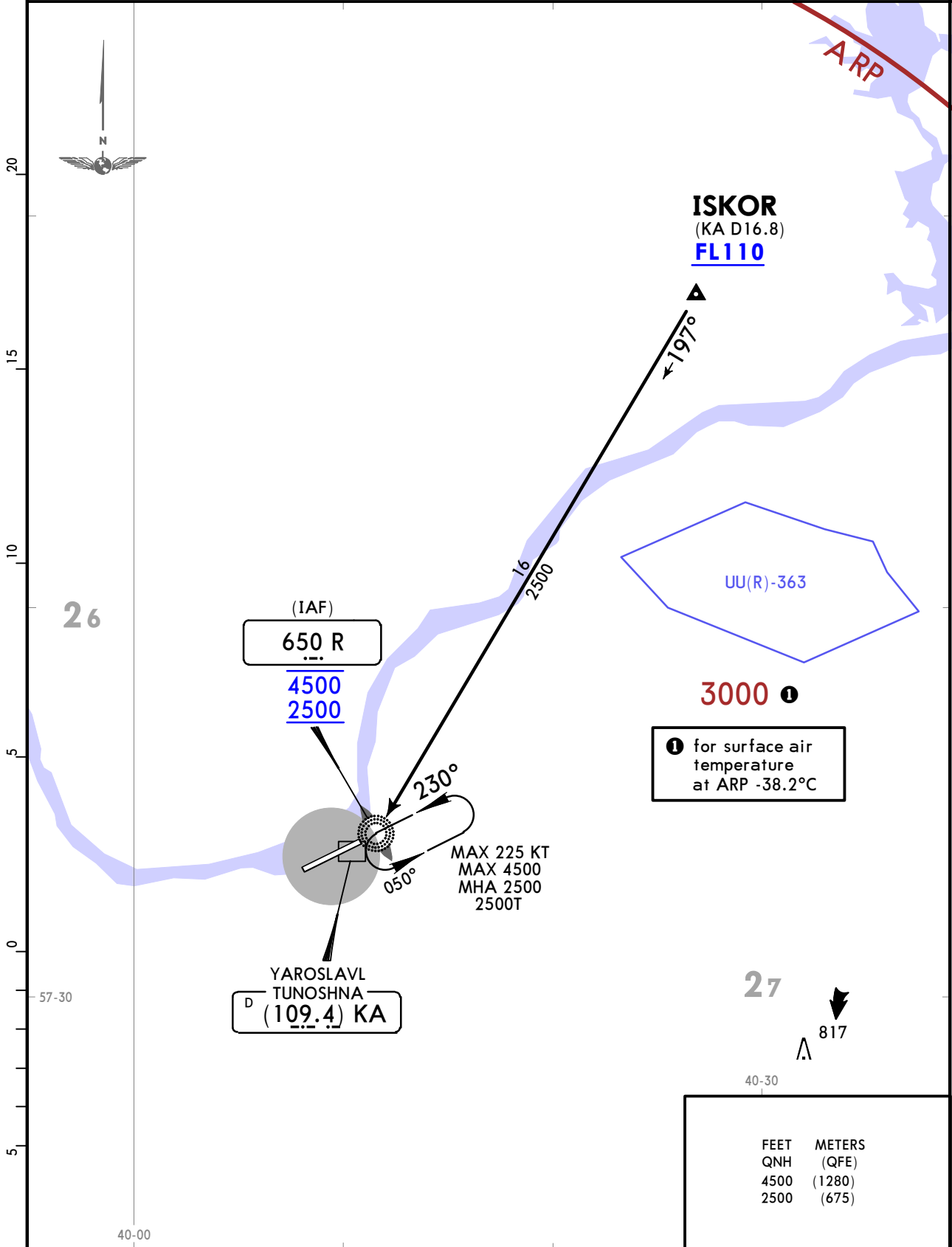
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JEPPESEN
25 OCT 24 (10-2G) Eff 31 Oct

YAROSLAVL, RUSSIA
STAR

<p>ATIS 127.350</p>	<p>Apt Elev 305</p>	<p>Alt Set: hPa (MM on request) Trans level: FL060 FL070 if pressure is less than 1013 hPa (760 mm) FL080 if pressure is less than 977 hPa (733 mm) UU(R)-363 may affect STAR and holding area over Lctr R.</p>
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**ISKOR 2G [ISK02G]
ARRIVAL
(RWY 23)**



UUDL/IAR
TUNOSHNA

JEPPESEN
25 OCT 24 (10-2H) Eff 31 Oct

YAROSLAVL, RUSSIA

STAR

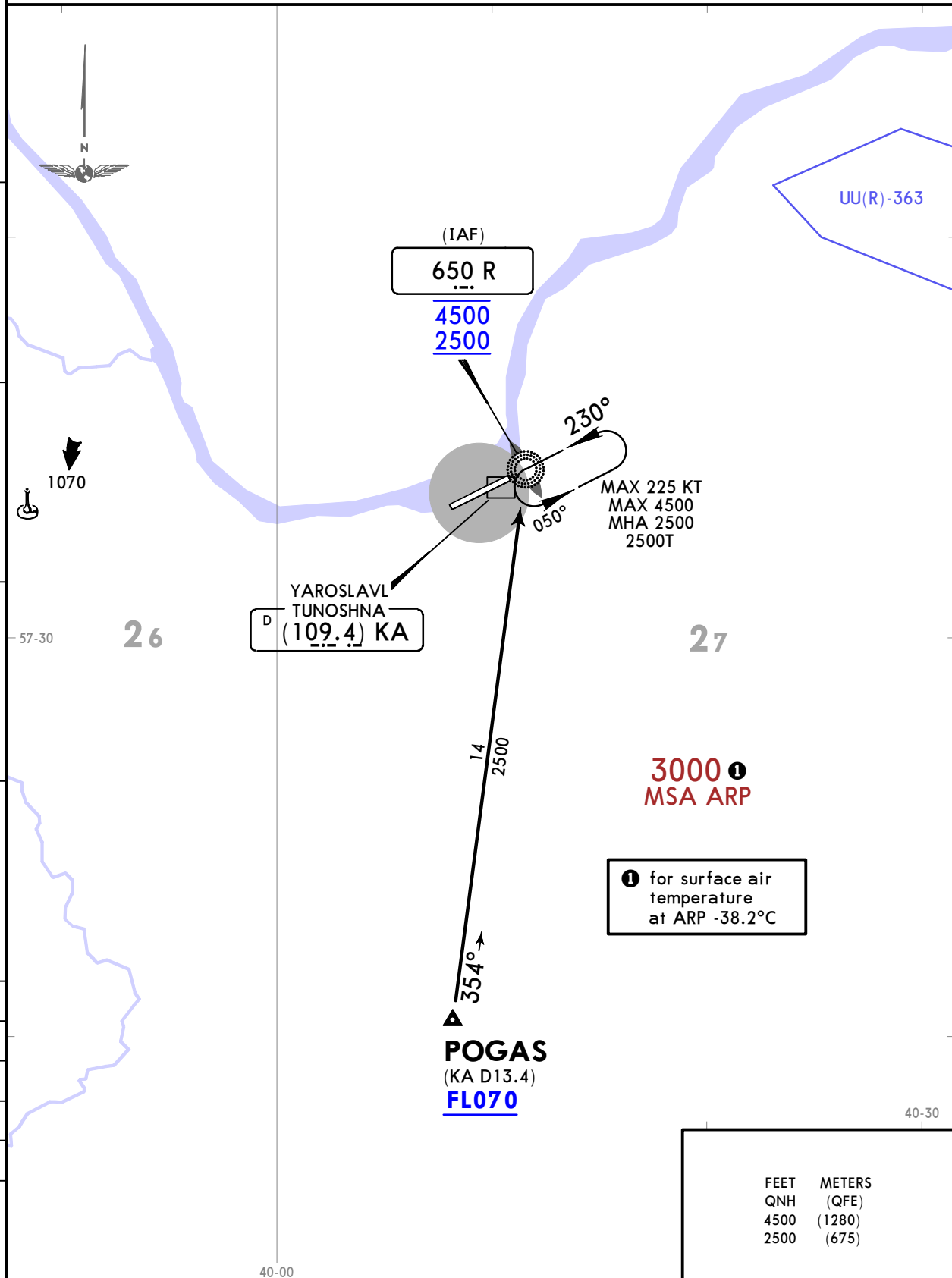
ATIS
127.350

Apt Elev
305

Alt Set: hPa (MM on request)
Trans level: FL060
FL070 if pressure is less than 1013 hPa (760 mm)
FL080 if pressure is less than 977 hPa (733 mm)
UU(R)-363 may affect holding area over Lctr R.

POGAS 2G [POGA2G]
ARRIVAL
(RWY 23)

25
20
15
10
5
0
5



YAROSLAVL
TUNOSHNA
(109.4) KA

(IAF)
650 R
4500
2500

MAX 225 KT
MAX 4500
MHA 2500
2500T

3000 1
MSA ARP

1 for surface air
temperature
at ARP -38.2°C

POGAS
(KA D13.4)
FL070

FEET	METERS
QNH (QFE)	
4500	(1280)
2500	(675)

UUDL/IAR
TUNOSHNA

JEPPESSEN

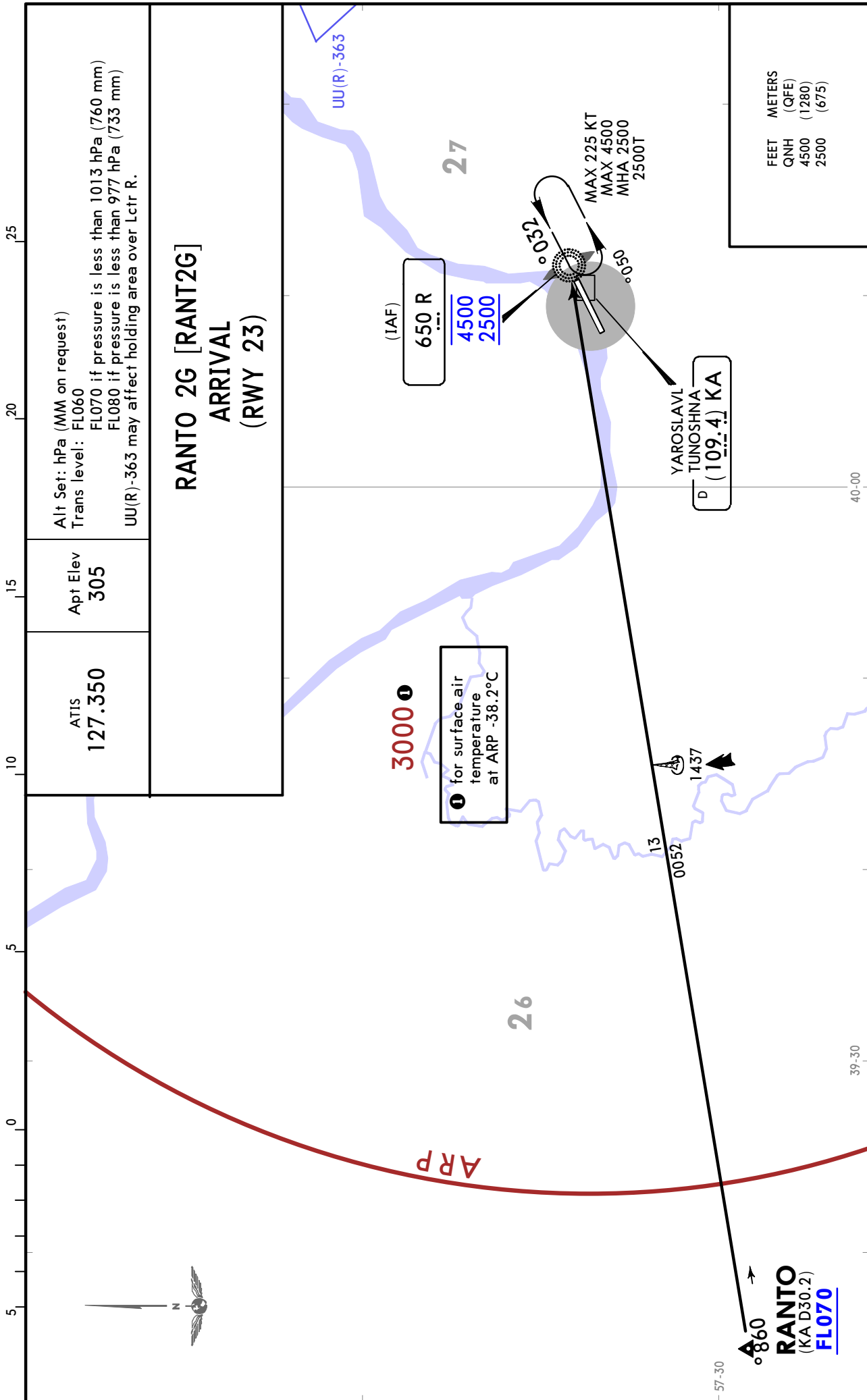
YAROSLAVL, RUSSIA

25 OCT 24

10-2J

Eff 31 Oct

STAR



UUDL/IAR
TUNOSHNA

JEPPESEN

YAROSLAVL, RUSSIA

25 OCT 24 (10-2K)

Eff 31 Oct

STAR

ATIS
127.350

Apt Elev
305

Alt Set: hPa (MM on request)
Trans level: FL060
FL070 if pressure is less than 1013 hPa (760 mm)
FL080 if pressure is less than 977 hPa (733 mm)
UU(R)-363 may affect holding area over Lctr R.

MAGOK 2G [MAG02G] ARRIVAL (RWY 23)

25
20
15
10
5
0
5

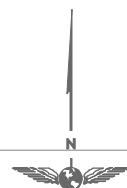
MAGOK
(KA D31.4)
FL070

143°

21

22

58-00



ARP

3000 ①

① for surface air temperature at ARP -38.2°C

26

31
2500



27

UU(R)-363

(IAF)

650 R

4500
2500

YAROSLAVL
TUNOSHNA
(109.4) KA

FEET	METERS
QNH	(QFE)
4500	(1280)
2500	(675)

MAX 225 KT
MAX 4500
MHA 2500
2500T

40-00



UUDL/IAR
TUNOSHNA

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YAROSLAVL, RUSSIA

25 OCT 24

10-3

Eff 31 Oct

RNAV SID

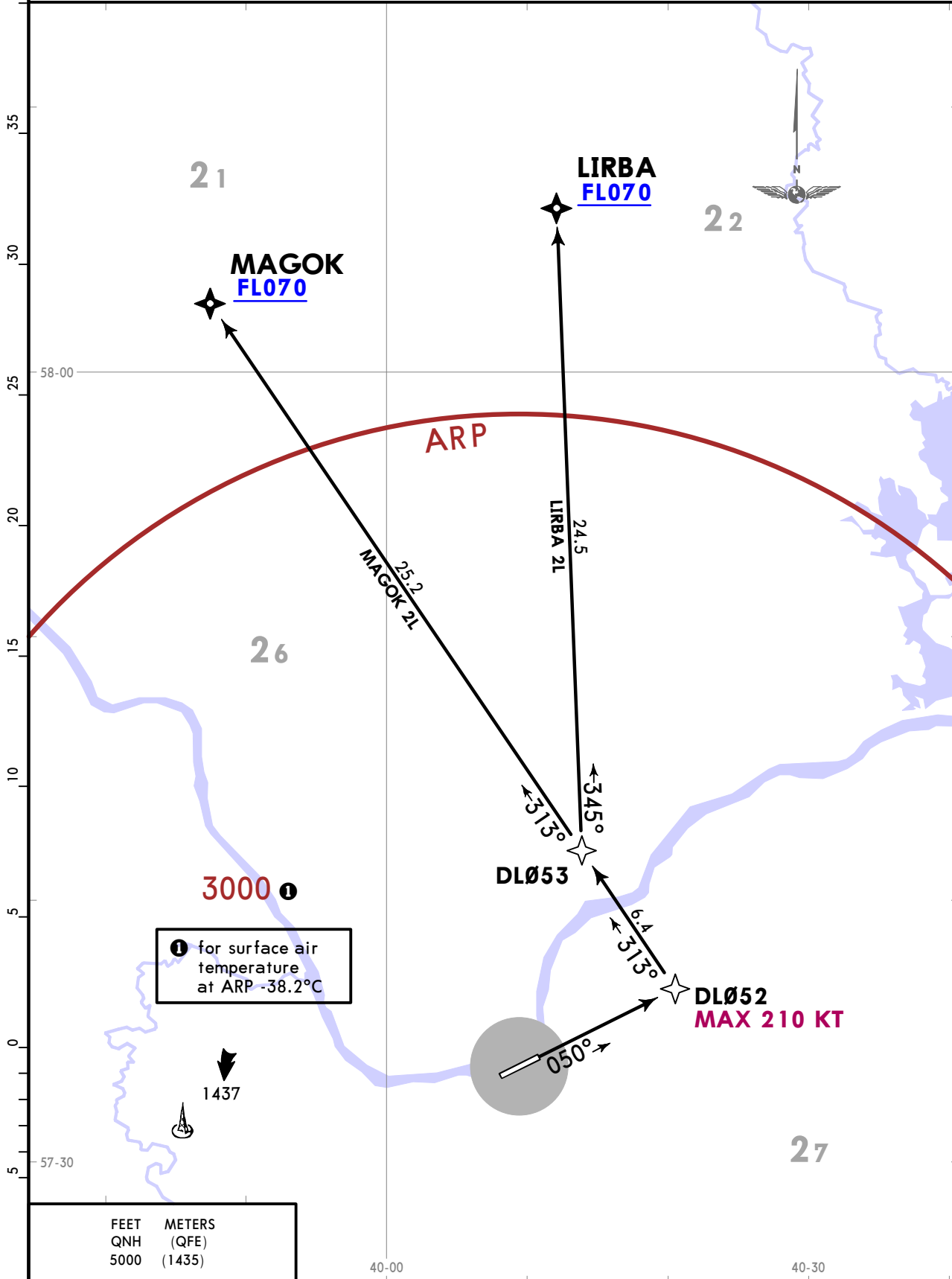
Apt Elev
305

QNH (QFE on request)
Trans alt: 5000

RNAV 1 GNSS required

EXPECT close-in obstacles.

LIRBA 2L [LIRB2L]
MAGOK 2L [MAGO2L]
RNAV DEPARTURES
(RWY 05)



① for surface air temperature at ARP -38.2°C

1437

FEET	METERS
QNH	(QFE)
5000	(1435)

CHANGES: Track update.

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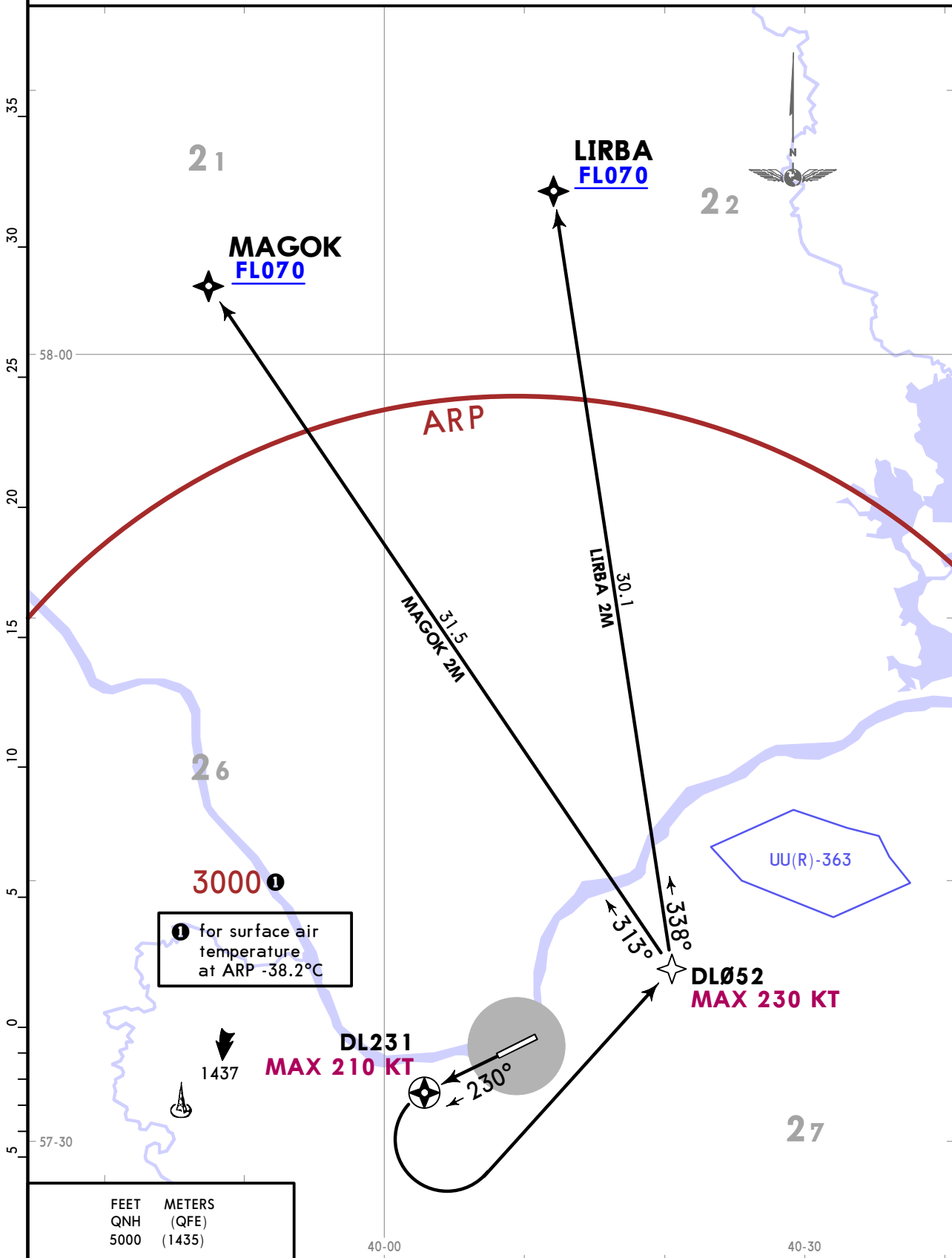
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JEPPESEN
25 OCT 24 (10-3A) Eff 31 Oct

YAROSLAVL, RUSSIA
RNAV SID

Apt Elev 305	Trans alt: 5000	QNH (QFE on request)
	RNAV 1	GNSS required
	1. LIBRA 2M: UU(R)-363 may affect SID. 2. EXPECT close-in obstacles.	

LIRBA 2M [LIRB2M]
MAGOK 2M [MAGO2M]
RNAV DEPARTURES
(RWY 23)



FEET	METERS
QNH	(QFE)
5000	(1435)

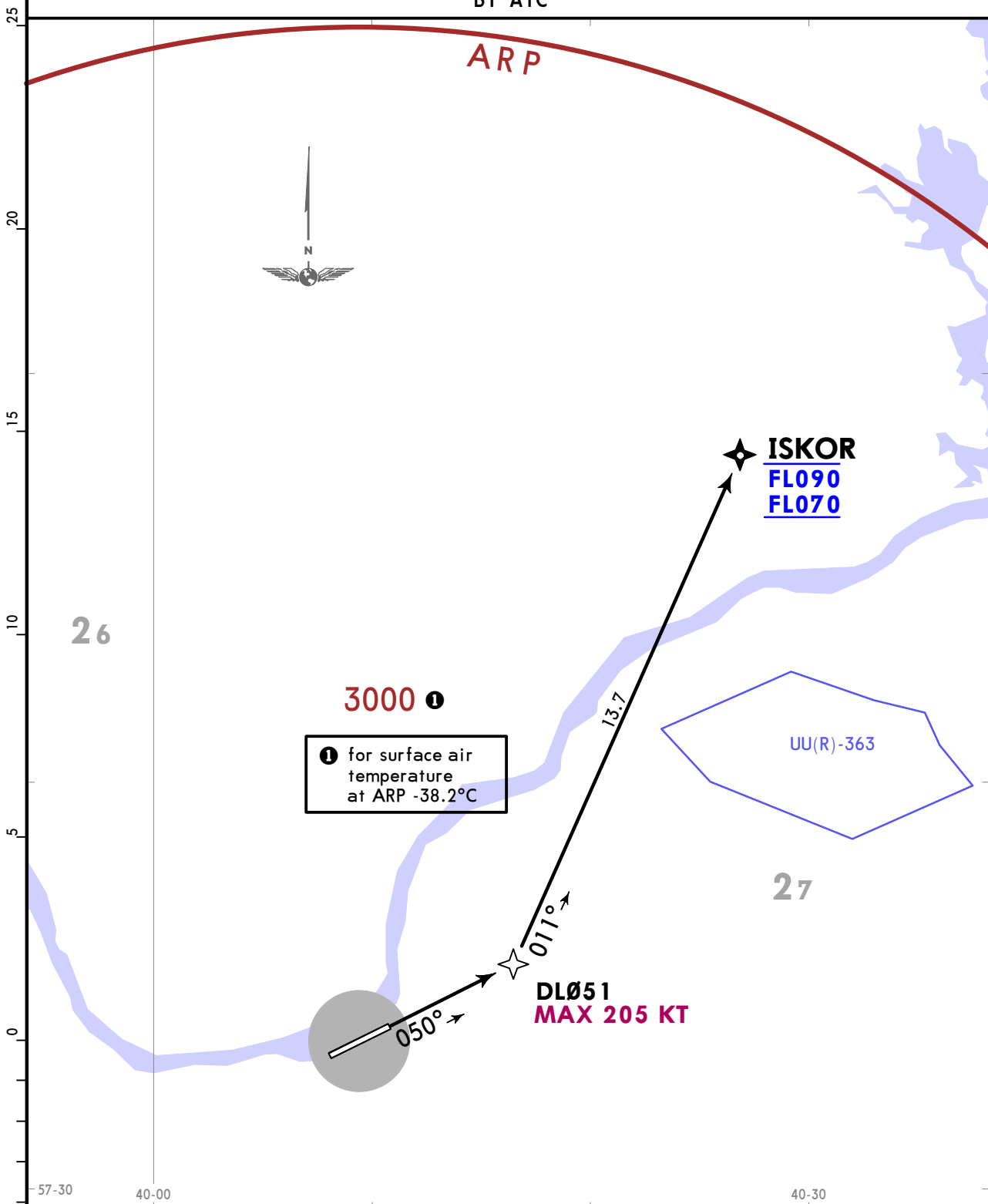
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JEPPESEN
25 OCT 24 **(10-3B)** **Eff 31 Oct**

YAROSLAVL, RUSSIA
RNAV SID

Apt Elev 305	Trans alt: 5000	QNH (QFE on request)
	RNAV 1	GNSS required
	1. UU(R)-363 may affect SID. 2. EXPECT close-in obstacles.	

ISKOR 2L [ISK02L]
RNAV DEPARTURE
(RWY 05)
BY ATC



FEET	METERS
QNH (QFE)	(QFE)
5000	(1435)

This SID requires a minimum climb gradient of 6.5% up to FL070 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
6.5% V/V (fpm)	494	658	987	1316	1646	1975

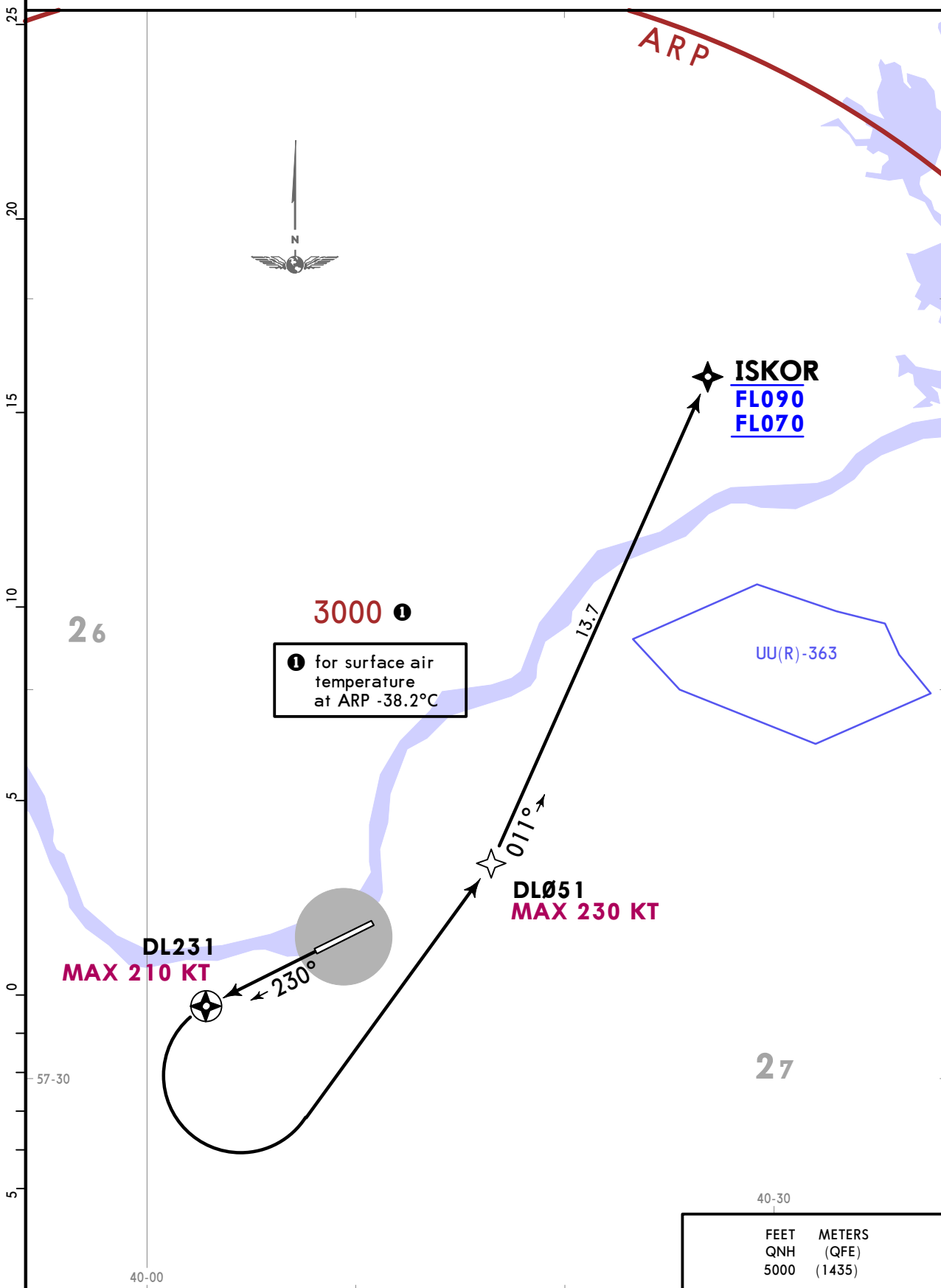
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TUNOSHNA

JEPPESEN
25 OCT 24 (10-3C) Eff 31 Oct

YAROSLAVL, RUSSIA
RNAV SID

Apt Elev 305	Trans alt: 5000	QNH (QFE on request)
	RNAV 1	GNSS required
	1. UU(R)-363 may affect SID. 2. EXPECT close-in obstacles.	

ISKOR 2M [ISK02M]
RNAV DEPARTURE
(RWY 23)



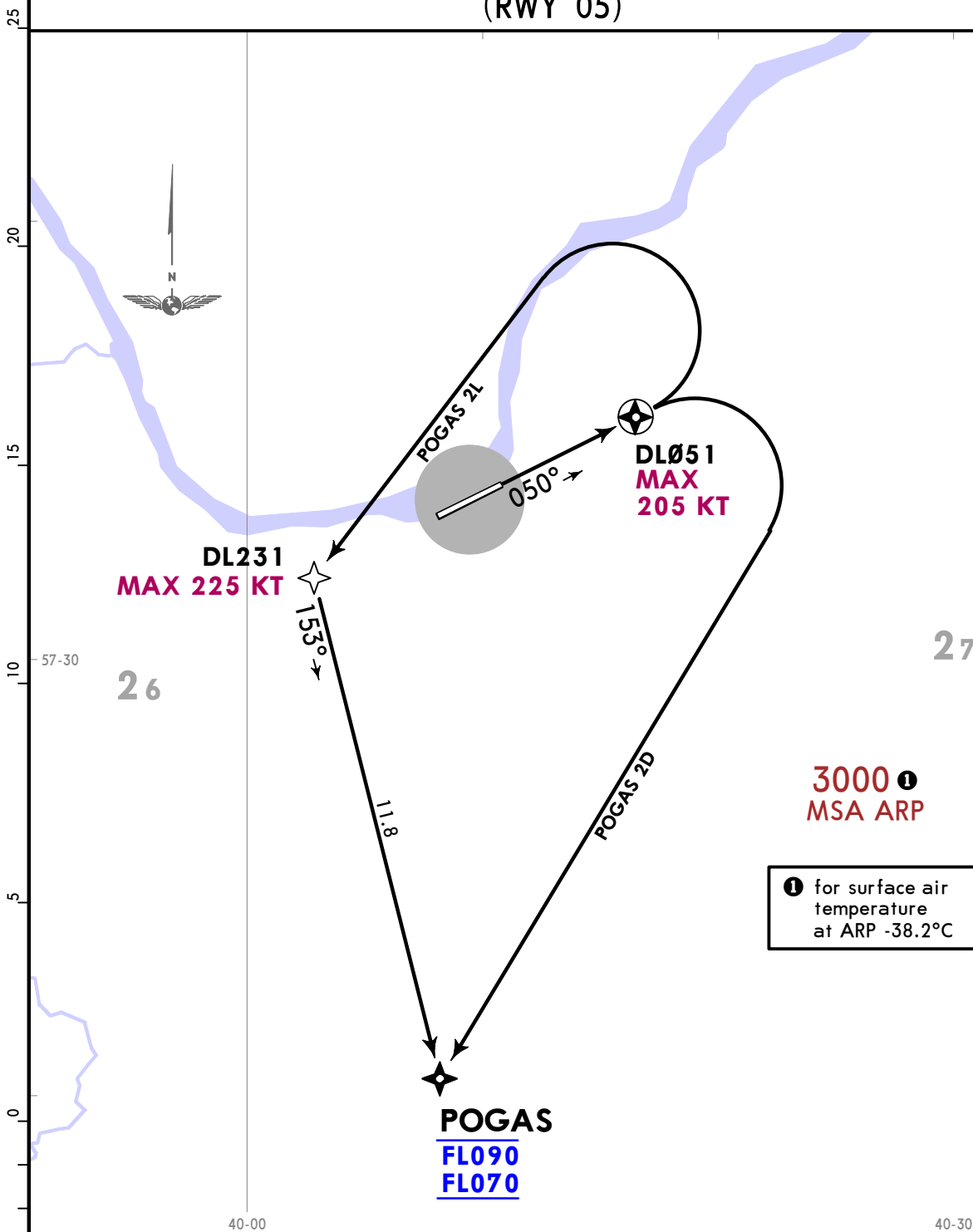
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TUNOSHNA

JEPPESEN
25 OCT 24 **(10-3D)** **Eff 31 Oct**

YAROSLAVL, RUSSIA
RNAV SID

Apt Elev 305	QNH (QFE on request) Trans alt: 5000
	RNAV 1 GNSS required
	EXPECT close-in obstacles.

POGAS 2D [POGA2D]
POGAS 2L [POGA2L]
RNAV DEPARTURES
(RWY 05)



3000 **MSA ARP**
① for surface air temperature at ARP -38.2°C

FEET	METERS
QNH (QFE)	(QFE)
5000	(1435)

These SIDs require minimum climb gradients of
 POGAS 2D: 5.0% up to FL070 due to airspace structure.
 POGAS 2L: 3.7% up to FL070 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
3.7% V/V (fpm)	281	375	562	749	937	1124
5.0% V/V (fpm)	380	506	760	1013	1266	1519

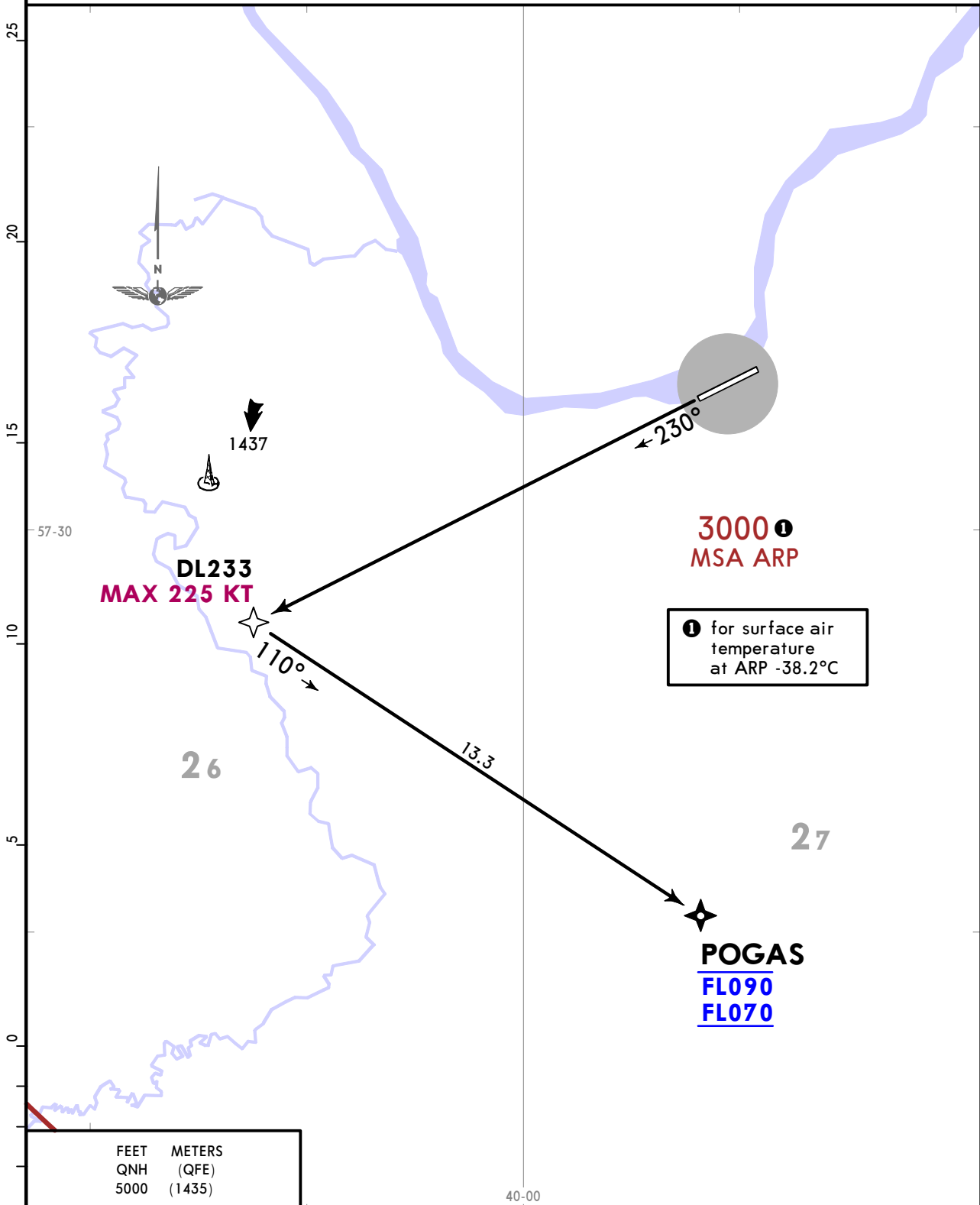
UUDL/IAR
TUNOSHNA

JEPPESEN
25 OCT 24 **(10-3E)** **Eff 31 Oct**

YAROSLAVL, RUSSIA
RNAV SID

Apt Elev 305	Trans alt: 5000	QNH (QFE on request)
	RNAV 1	GNSS required
	EXPECT close-in obstacles.	

POGAS 2M [POGA2M]
RNAV DEPARTURE
(RWY 23)



FEET	METERS
QNH	(QFE)
5000	(1435)

This SID requires a minimum climb gradient of 4.8% up to FL070 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
4.8% V/V (fpm)	365	486	729	972	1215	1458

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TUNOSHNA



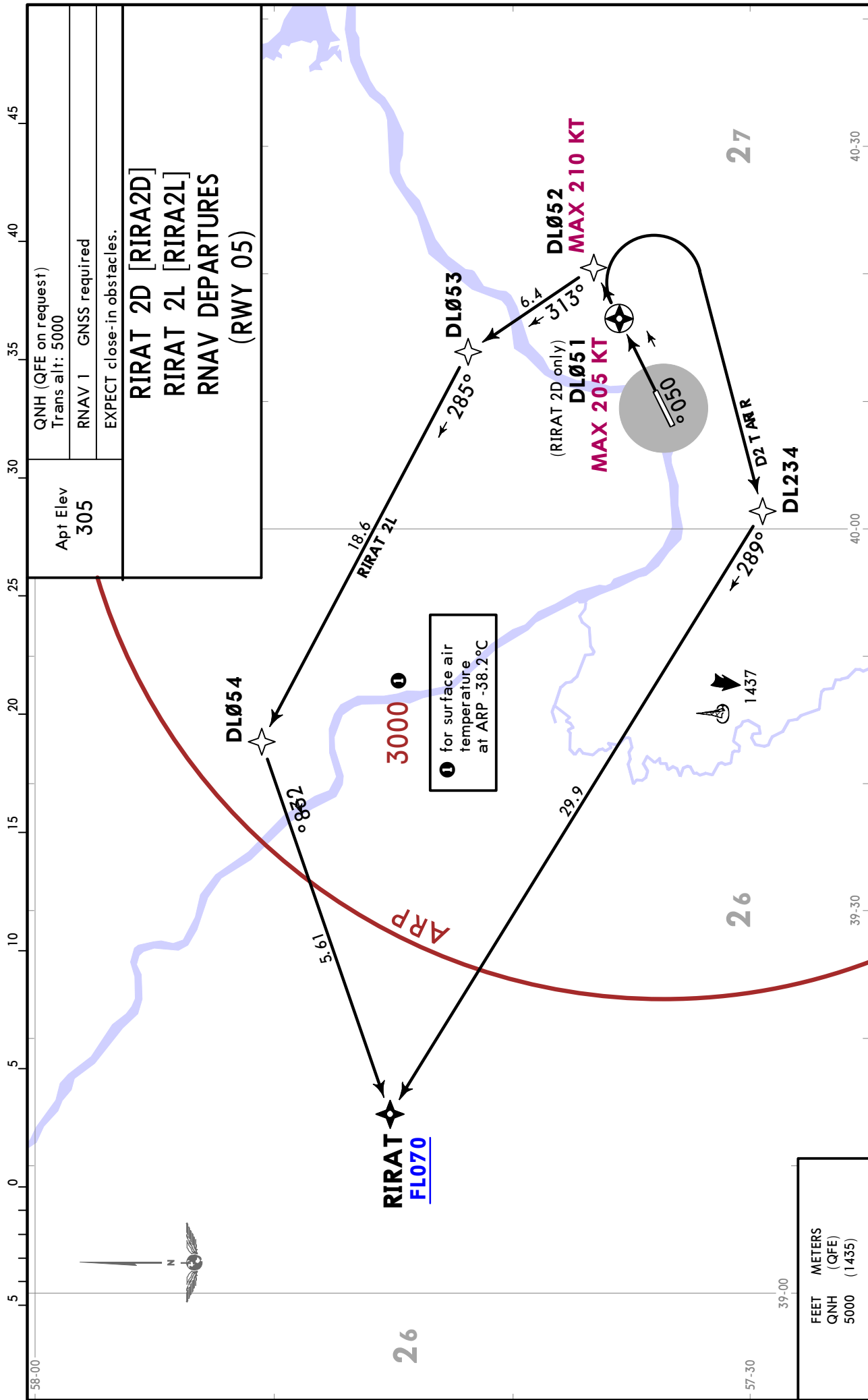
YAROSLAVL, RUSSIA

25 OCT 24

10-3F

Eff 31 Oct

RNAV SID



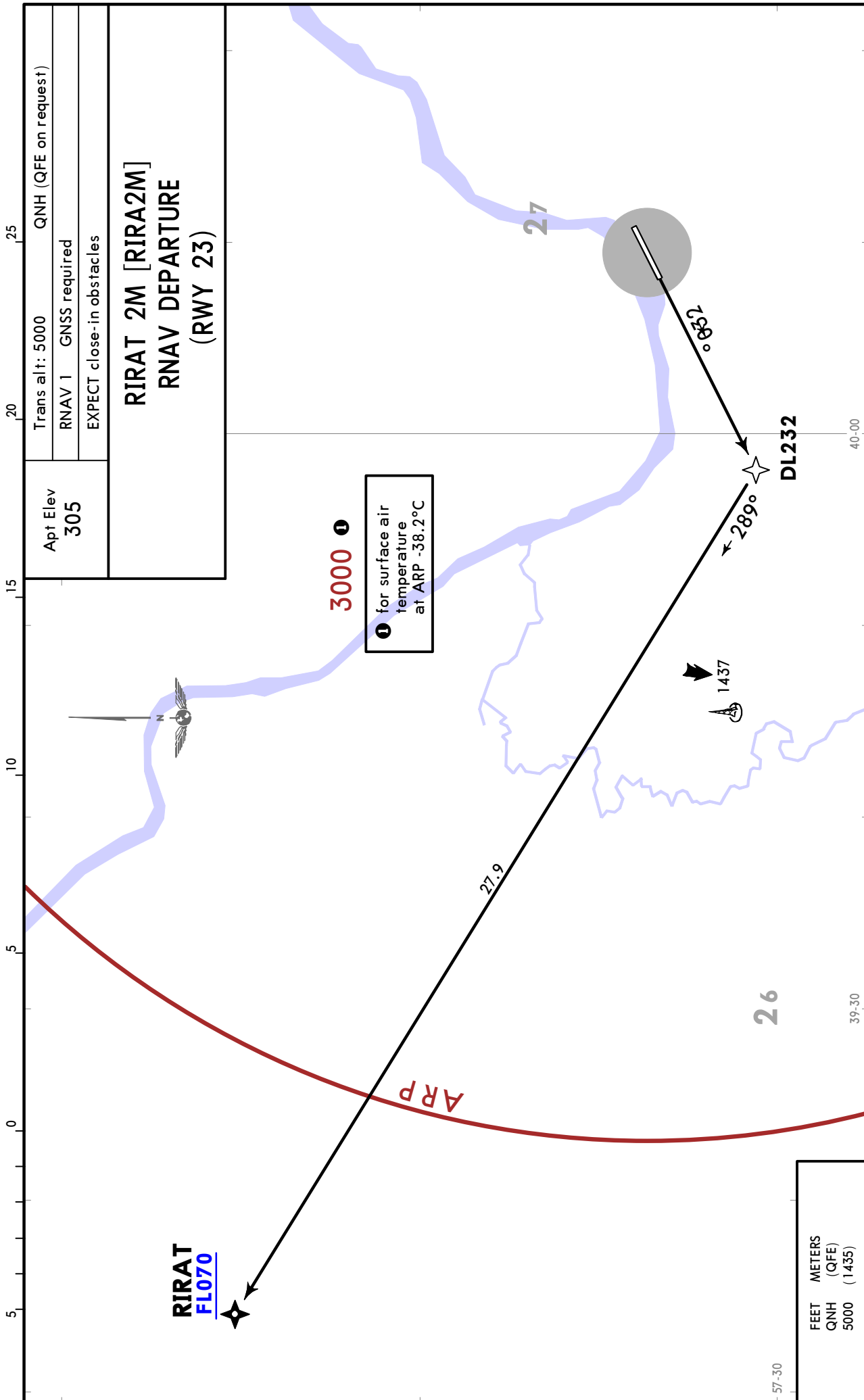
CHANGES: Track update.

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UUDL/IAR
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JEPPESSEN
25 OCT 24 10-3G Eff 31 Oct

YAROSLAVL, RUSSIA
RNAV SID



UUDL/IAR
TUNOSHNA

JEPPESEN
25 OCT 24 **(10-3H)** **Eff 31 Oct**

YAROSLAVL, RUSSIA

SID

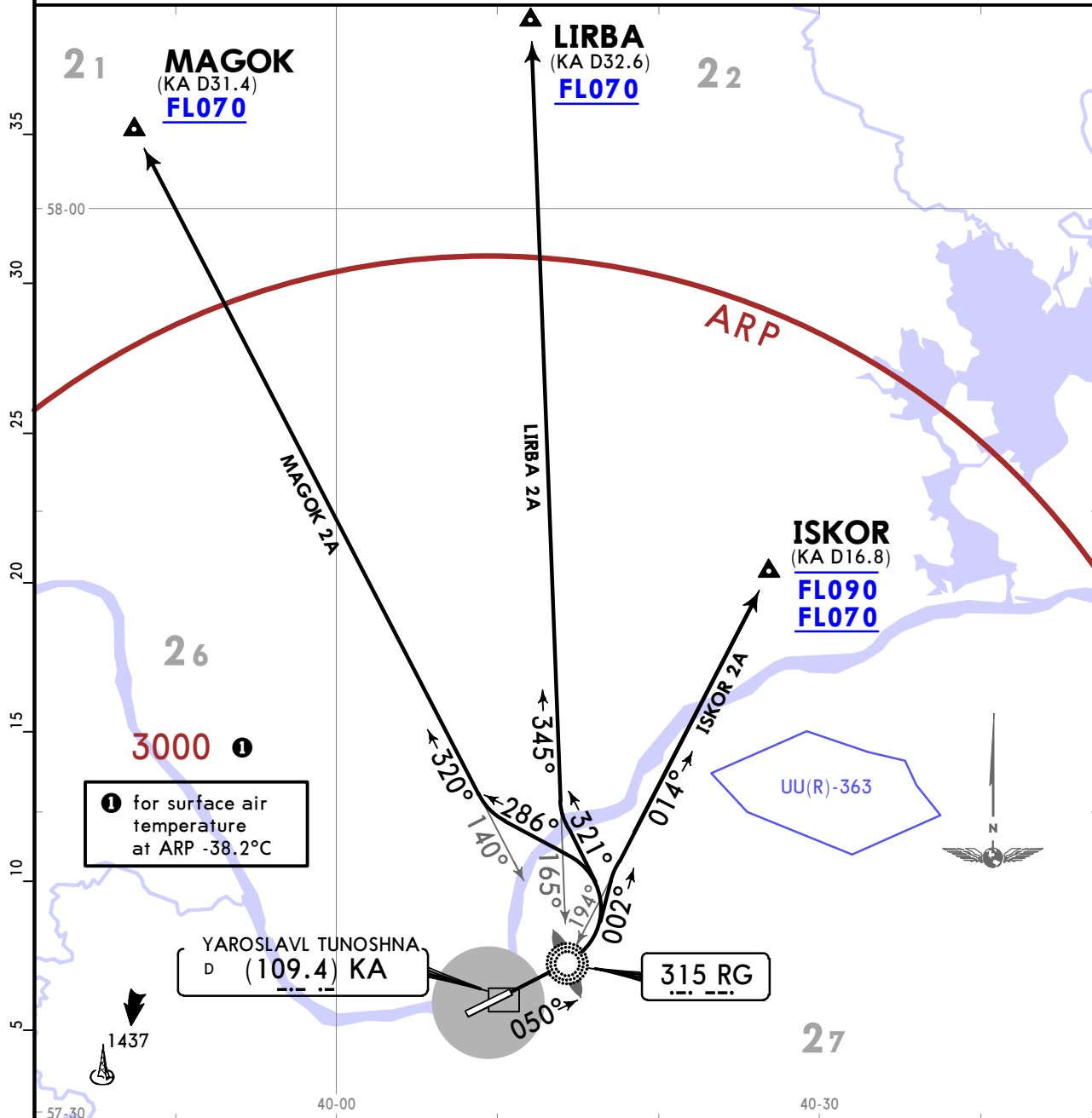
Apt Elev
305

QNH (QFE on request)
Trans alt: 5000
1. Turn before passing RG Lctr is prohibited.
2. ISKOR 2A: UU(R)-363 may affect SID.

ISKOR 2A [ISKO2A]
BY ATC

LIRBA 2A [LIRB2A]
MAGOK 2A [MAGO2A]
SPEED: MAX 220 KT

DEPARTURES
(RWY 05)



1 for surface air temperature at ARP -38.2°C

ISKOR 2A
This SID requires a minimum climb gradient of 6.5% up to FL070 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
6.5% V/V (fpm)	494	658	987	1316	1646	1975

Close-in Obstacles
Trees and powerline poles at 0.1-0.2 NM from RWY 23 THR

FEET	METERS
QNH	(QFE)
5000	(1435)

SID	ROUTING
ISKOR 2A	Climb on 050° track, turn LEFT 002° track, intercept 014° brg from RG to ISKOR.
LIRBA 2A	Climb on 050° track, turn LEFT 321° track, intercept 345° brg from RG to LIRBA.
MAGOK 2A	Climb on 050° track, turn LEFT 286° track, intercept 320° brg from RG to MAGOK.

UUDL/IAR
TUNOSHNA

JEPPESSEN
25 OCT 24 **(10-3J)** **Eff 31 Oct**

YAROSLAVL, RUSSIA

SID

Apt Elev
305

Trans alt: 5000 QNH (QFE on request)
1. Turn before DER is prohibited.
2. ISKOR 2B: UU(R)-363 may affect SID.

ISKOR 2B [ISK02B]
LIRBA 2B [LIRB2B]
MAGOK 2B [MAGO2B]
DEPARTURES
(RWY 23)



SID	ROUTING
ISKOR 2B	Climb on 230° track to 800, turn LEFT to RG, 014° bearing to ISKOR.
LIRBA 2B	Climb on 230° track to 800, turn LEFT to RG, 345° bearing to LIRBA.
MAGOK 2B	Climb on 230° track to 800, turn LEFT to RG, 320° bearing to MAGOK.

UUDL/IAR
TUNOSHNA

JEPPESEN
25 OCT 24 **(10-3K)** **Eff 31 Oct**

YAROSLAVL, RUSSIA
SID

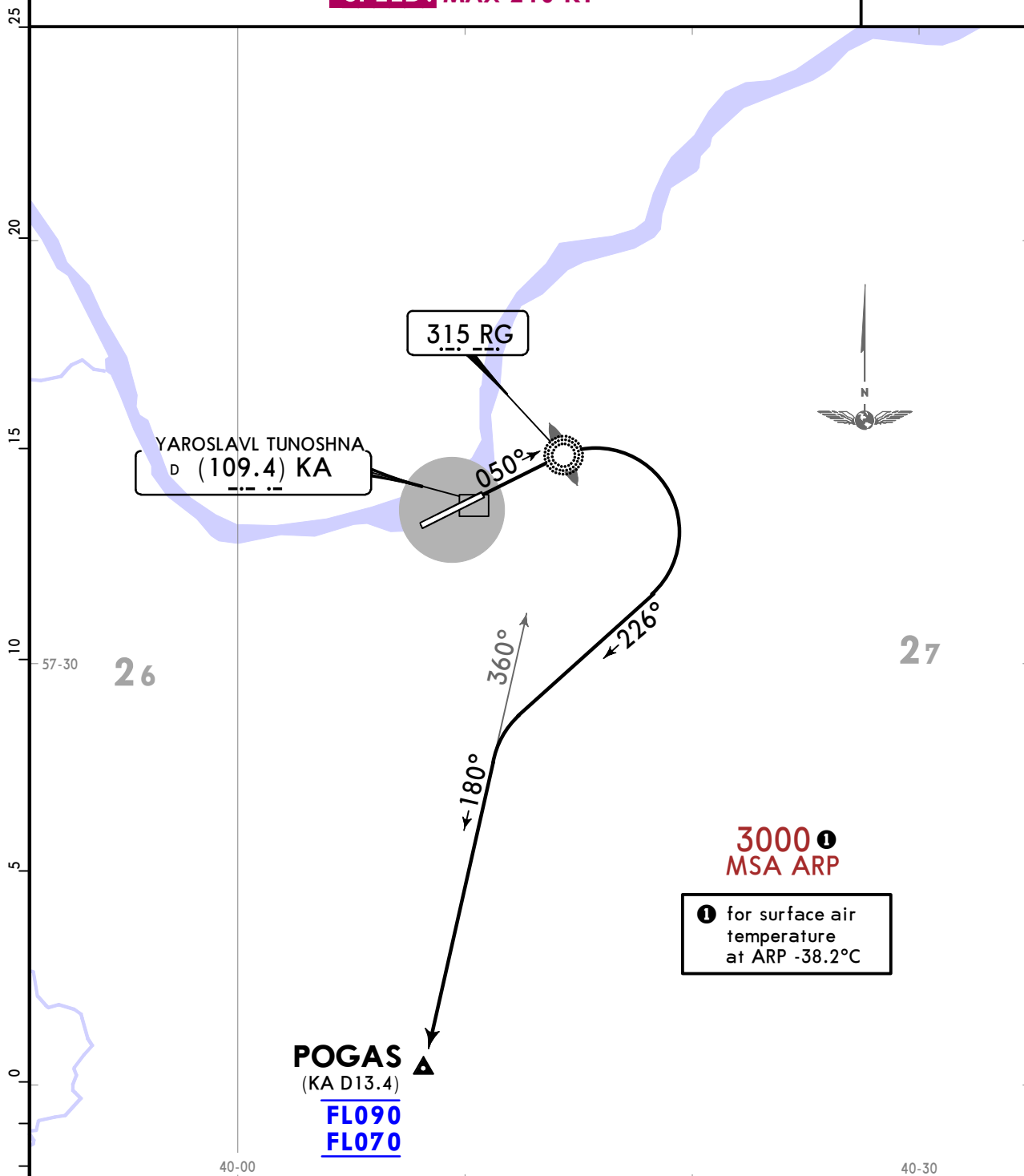
Apt Elev
305

QNH (QFE on request)
Trans alt: 5000
Turn before passing RG Lctr is prohibited.

POGAS 2A [POGA2A]
DEPARTURE
(RWY 05)

FEET METERS
QNH (QFE)
5000 (1435)

SPEED: MAX 210 KT



This SID requires a minimum climb gradient of 4.9% up to FL070 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
4.9% V/V (fpm)	372	496	744	992	1241	1489

Close-in Obstacles
Trees and powerline poles at 0.1-0.2 NM from RWY 23 THR

ROUTING

Climb on 050° track, turn RIGHT 226° track, intercept 180° bearing from RG to POGAS.

UUDL/IAR
TUNOSHNA

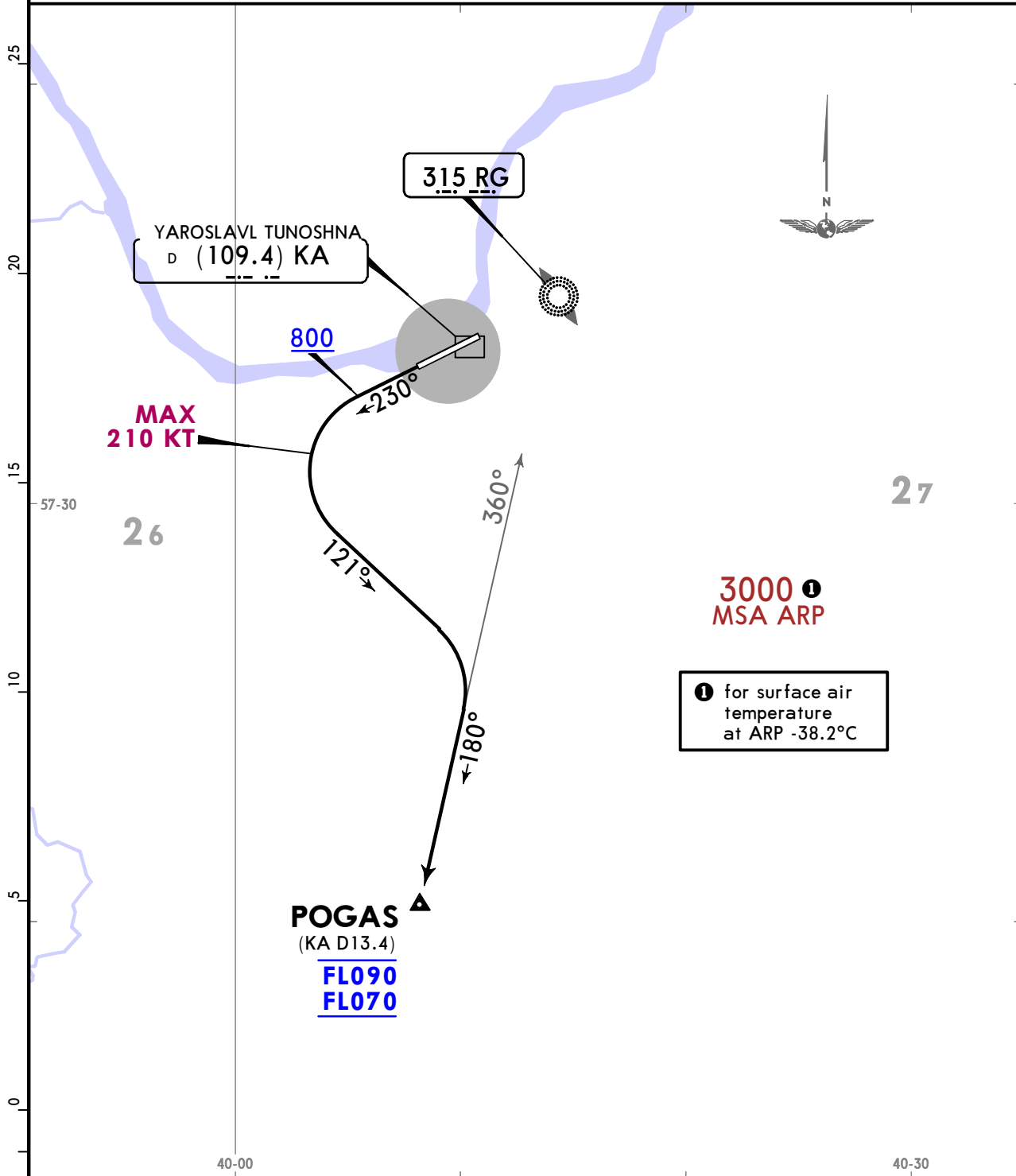
JEPPESEN
25 OCT 24 **10-3L** **Eff 31 Oct**

YAROSLAVL, RUSSIA
SID

Apt Elev
305

QNH (QFE on request)
Trans alt: 5000
Turn before DER is prohibited.

POGAS 2B [POGA2B]
DEPARTURE (RWY 23)
SPEED: MAX 210 KT



This SID requires a minimum climb gradient of 6.6% up to FL070 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
6.6% V/V (fpm)	501	668	1003	1337	1671	2005

Close-in Obstacles
Trees at 0.2-0.3 NM from RWY 05 THR

FEET	METERS
QNH (QFE)	
800	(155)
5000	(1435)

ROUTING

Climb on 230° track to 800, turn LEFT 121° track, intercept 180° bearing from RG to POGAS.

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JEPPESEN

YAROSLAVL, RUSSIA

25 OCT 24

10-3M

Eff 31 Oct

SID

Apt Elev
305

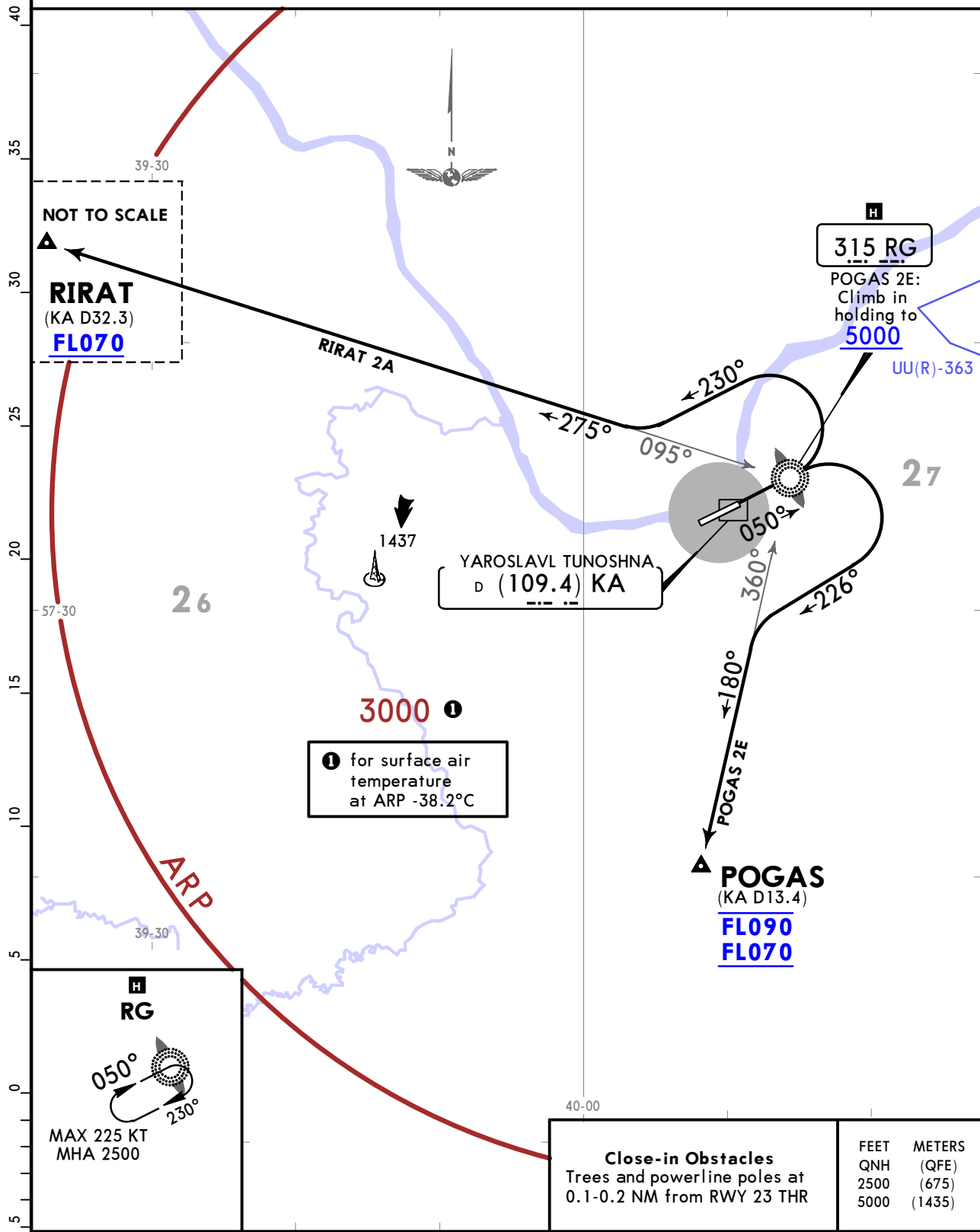
Trans alt: 5000 QNH (QFE on request)
1. Turn before DER is prohibited.
2. POGAS 2E: UU(R)-363 may affect climb procedure.

POGAS 2E [POGA2E]

RIRAT 2A [RIRA2A]

SPEED: MAX 210 KT

DEPARTURES
(RWY 05)



SID	ROUTING
POGAS 2E	Climb on 050° track, turn RIGHT to holding area over RG climbing to at or above 5000, after passing RG turn RIGHT 226° track, intercept 180° bearing from RG to POGAS.
RIRAT 2A	Climb on 050° track, turn LEFT 230° track, intercept 275° bearing from RG to RIRAT.

CHANGES: RIRAT 2A revised, KA DME established, notes, track update.

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25 OCT 24 **(10-3N)** **Eff 31 Oct**

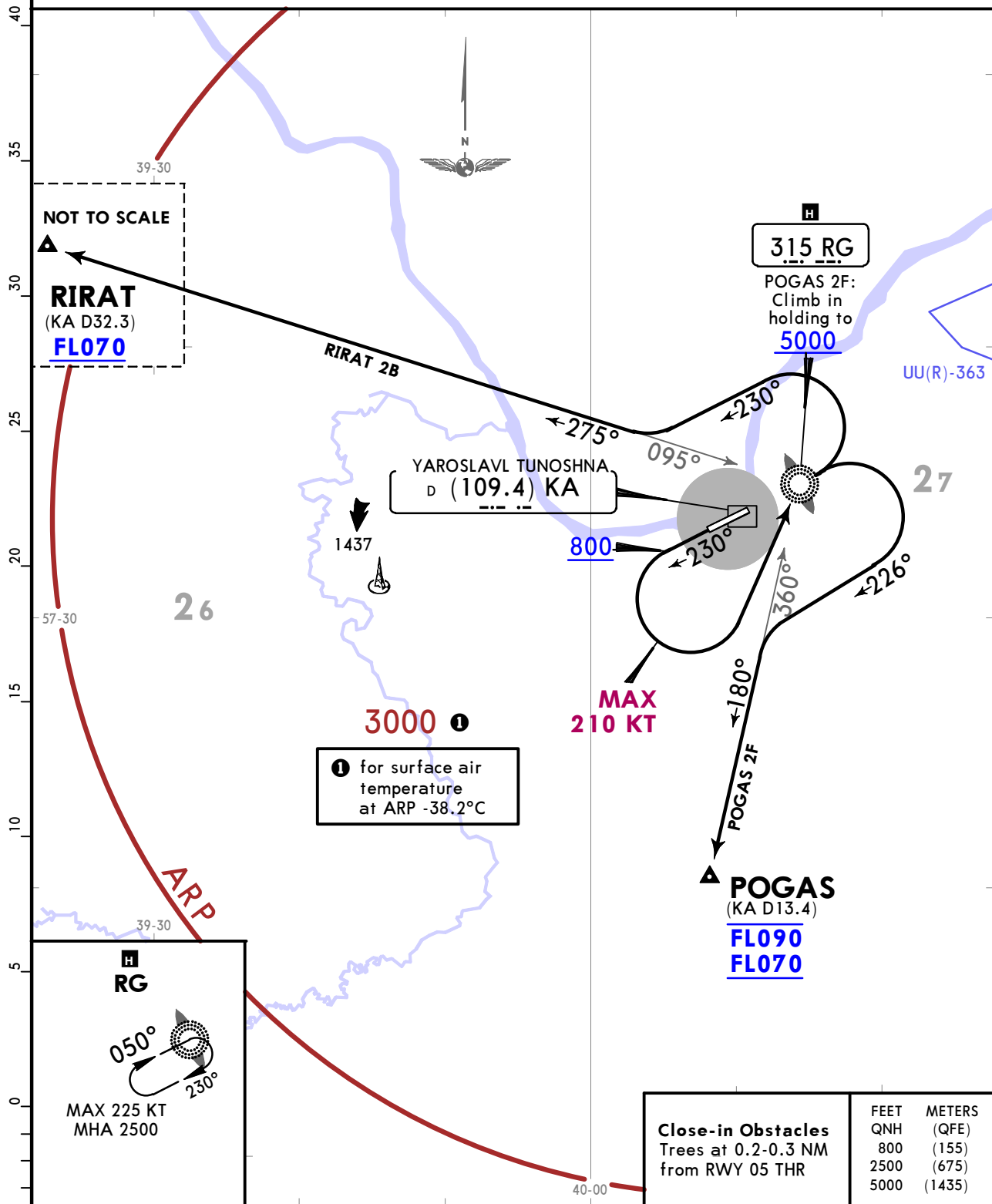
YAROSLAVL, RUSSIA

SID

Apt Elev
305

Trans alt: 5000 QNH (QFE on request)
1. Turn before DER is prohibited.
2. POGAS 2F: UU(R)-363 may affect climb procedure.

POGAS 2F [POGA2F]
RIRAT 2B [RIRA2B]
DEPARTURES
(RWY 23)

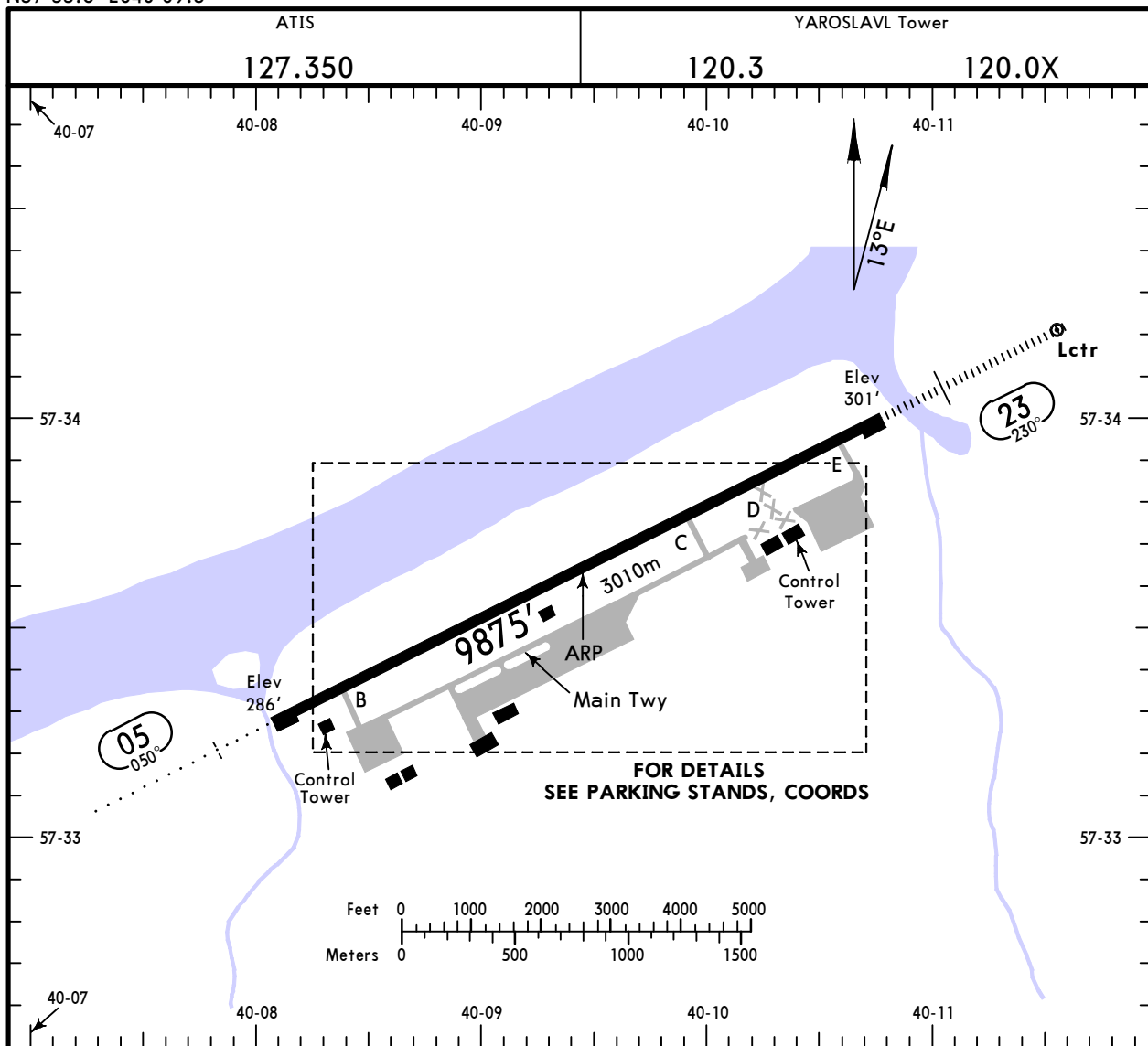


SID	ROUTING
POGAS 2F	Climb on 230° track to 800, turn LEFT to RG, join holding pattern climbing to at or above 5000, after passing RG turn RIGHT 226° track, intercept 180° bearing from RG to POGAS.
RIRAT 2B	Climb on 230° track to 800, turn LEFT to RG, turn LEFT 230° track, intercept 275° bearing from RG to RIRAT.

UUDL/IAR
 Apt Elev **305'**
 N57 33.6 E040 09.5

JEPPESEN
 6 JUN 25 **(10-9)** Eff 12 Jun

YAROSLAVL, RUSSIA
TUNOSHNA



ADDITIONAL RUNWAY INFORMATION

RWY	ALS	PAPI-L (angle 3.0°)	USABLE LENGTHS		TAKE-OFF	WIDTH
			Threshold	Glide Slope		
05	RL (60m)	①			②	144' 44m
23	RL (60m)	①		8904' 2714m		

① length 900m

② TAKE-OFF RUN AVAILABLE

RWY 05:

From rwy head 9875' (3010m)
 twy B int 8366' (2550m)

RWY 23:

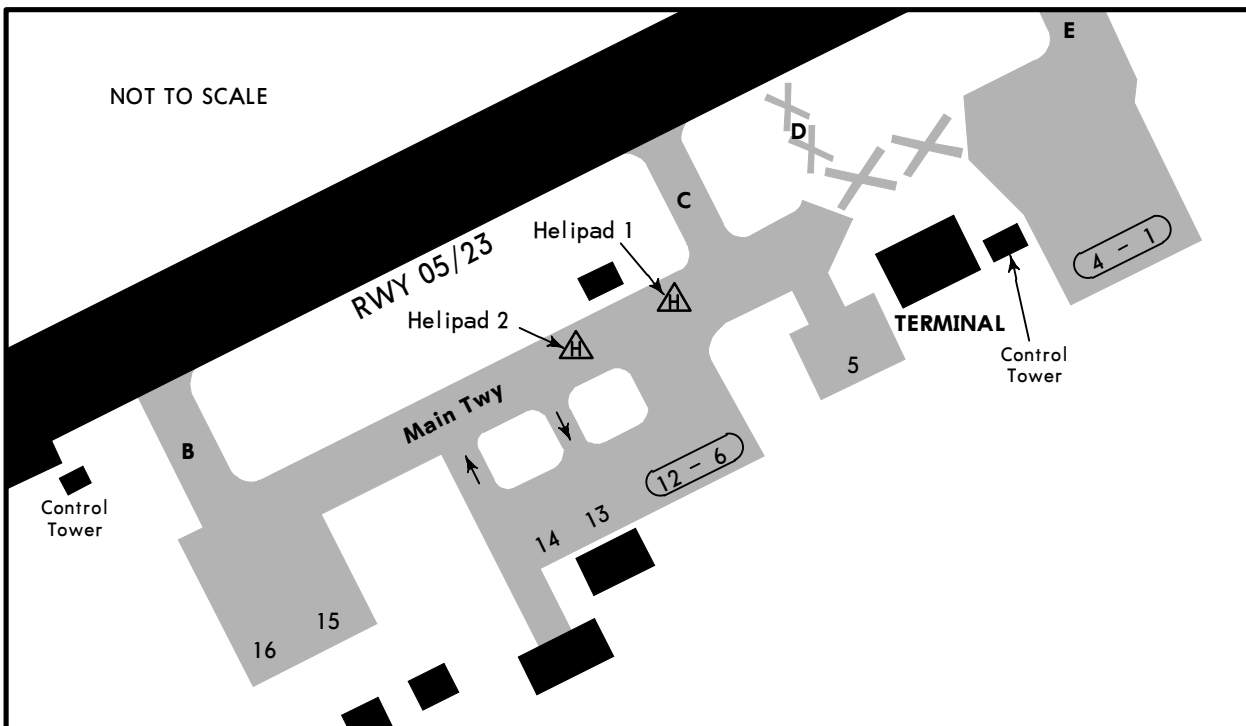
From rwy head 9875' (3010m)
 twy E int 8694' (2650m)

S t d TAKE-OFF				
RL & RCLM	RL	RL or RCLM	Adequate Vis Ref	
DAY	NIGHT	DAY	DAY	NIGHT
R300m		R400m	R/V500m	NA

UUDL/IAR

JEPPESEN
6 JUN 25 (10-9A) Eff 12 Jun

YAROSLAVL, RUSSIA
TUNOSHNA



INS COORDINATES

STAND No.	COORDINATES	STAND No.	COORDINATES
1 thru 1B	N57 33.8 E040 10.6		
2 thru 2B	N57 33.8 E040 10.5		
3 thru 4	N57 33.8 E040 10.4		
5	N57 33.7 E040 10.1		
6 thru 8	N57 33.5 E040 09.5		
9 thru 11	N57 33.5 E040 09.4		
12	N57 33.5 E040 09.3		
13	N57 33.4 E040 09.1		
14	N57 33.4 E040 09.0		
15	N57 33.3 E040 08.6		
16	N57 33.3 E040 08.5		

UUDL/IAR



EASA AIR OPS

25 OCT 24 **10-9S** Eff 31 Oct

YAROSLAVL, RUSSIA
TUNOSHNA

STRAIGHT-IN RWY		A	B	C	D	
05	GLS	486' (200')	486' (200')	510' (224')	520' (234')	
		R1000m	R1000m	R1000m	R1000m	
	ALS out	R1200m	R1200m	R1200m	R1200m	
	RNP LNAV/VNAV	626' (340')	636' (350')	646' (360')	646' (360')	
	R1300m	R1400m	R1400m	R1400m		
	ALS out	R1500m	R1500m	R1600m	R1600m	
	① RNP LNAV	800' (514')	800' (514')	800' (514')	800' (514')	
		R1500m	R1500m	R2100m	R2100m	
	ALS out	R1500m	R1500m	R2400m	R2400m	
23	ILS Y or X	525' (224')	538' (237')	546' (245')	556' (255')	
		② R550m	② R550m	② R550m	② R600m	
	ALS out	R1200m	R1200m	R1300m	R1300m	
	GLS	525' (224')	538' (237')	546' (245')	556' (255')	
		② R550m	② R550m	② R550m	② R600m	
	ALS out	R1200m	R1200m	R1300m	R1300m	
	RNP LNAV/VNAV	551' (250')	551' (250')	561' (260')	571' (270')	
		② R550m	② R550m	② R600m	② R600m	
	ALS out	R1300m	R1300m	R1300m	R1300m	
		① RNP LNAV	670' (369')	670' (369')	670' (369')	670' (369')
		R1000m	R1000m	R1000m	R1000m	
		ALS out	R1500m	R1500m	R1700m	R1700m
	① NDB	1000' (699')	1000' (699')	1000' (699')	1000' (699')	
		R1500m	R1500m	R2400m	R2400m	

① Continuous Descent Final Approach.

② R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

CIRCLE-TO-LAND	100 Kts	135 Kts	180 Kts	205 Kts
③ After RWY 05	850' (564')	850' (564')	1010' (724')	1900' (1614')
④ After RWY 23	850' (549')	850' (549')	1010' (709')	1900' (1599')
④ After NDB 23	1000' (699')	1000' (699')	1010' (709')	1900' (1599')
	V1500m	V1600m	V2400m	V3600m

③ Circling height based on runway 05 threshold elev of 286'.

④ Circling height based on runway 23 threshold elev of 301'.

TAKE-OFF

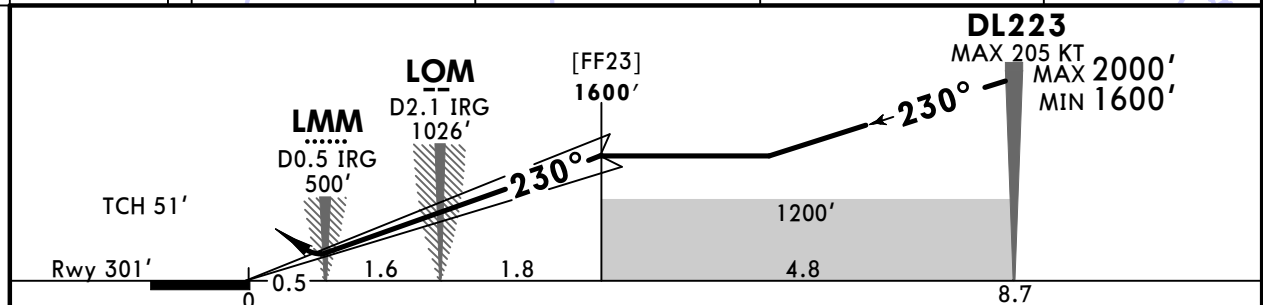
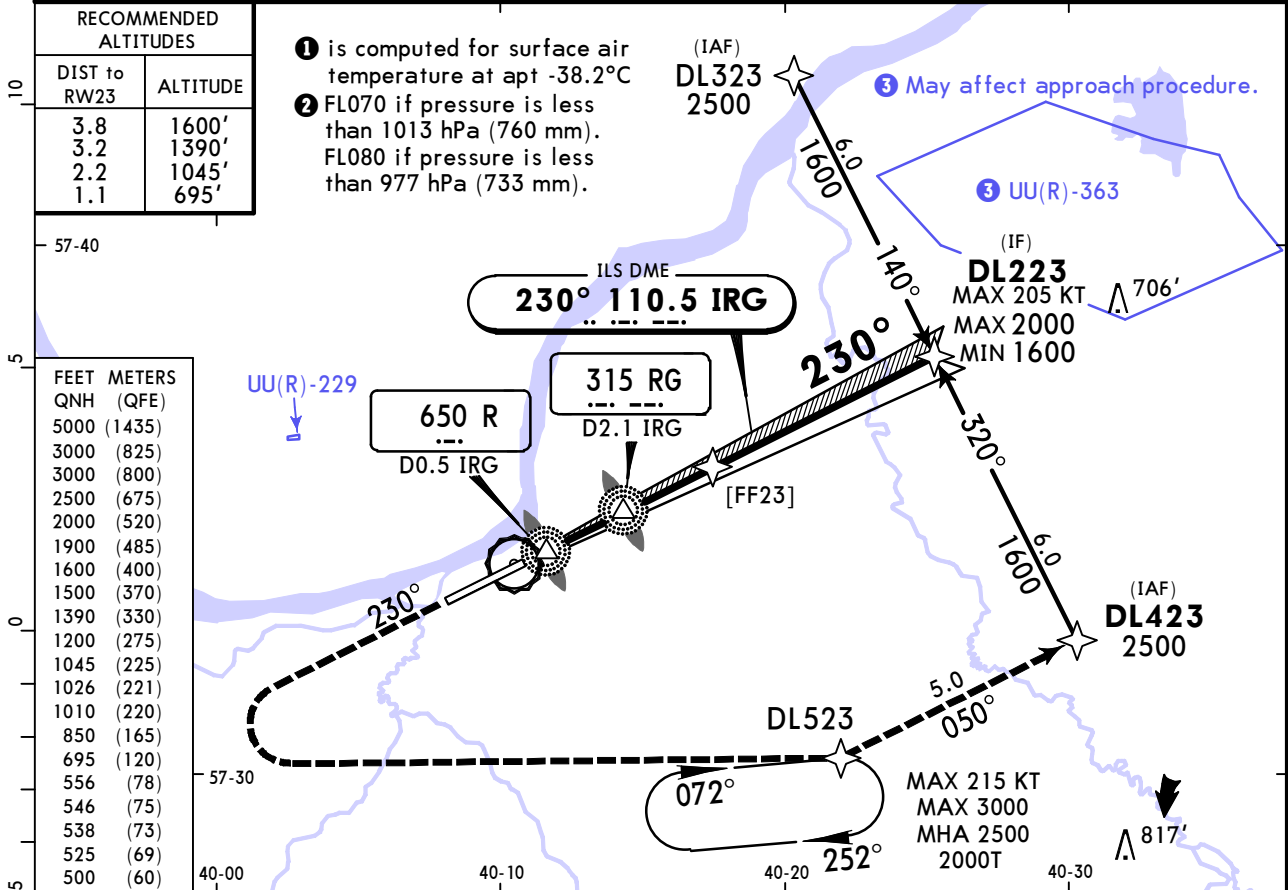
Low Visibility Procedure required		RCLM or RL	RL	Adequate Vis Ref	
Approval for Low Visibility Take-off required				DAY	NIGHT
RCLM & RL & RVR		DAY	NIGHT	DAY	NIGHT
DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
R300m		R/V400m		R/V500m	NA

UUDL/IAR
TUNOSHNA

JEPPESEN
7 MAR 25 **(11-1)** Eff 20 Mar

YAROSLAVL, RUSSIA
ILS Y Rwy 23

ATIS 127.350			YAROSLAVL Tower 120.3			120.0X
LOC IRG 110.5	Final Apch Crs 230°	[FF23] 1600' (1299')	DA(H) Refer to Minimums	Apt Elev 305' Rwy 301'	3000 MSA ARP ①	
MISSED APCH: Climb STRAIGHT AHEAD to 1500' or above (MAX 215 KT), then turn LEFT to DL523 (MAX 215 KT), then proceed to DL423 climbing to 2500' or above, then proceed according to chart, or as directed.						
Alt Set: hPa (MM on req)		Rwy Elev: 11 hPa	Trans level: FL060 ②	Trans alt: 5000'		
RNAV 1 for initial and missed approach.		1. GNSS required. 2. ILS DME reads zero at RWY 23 thresh.				



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI MIN 1500' 215 KT MAX
GS	3.00°	372	478	531	637	849	

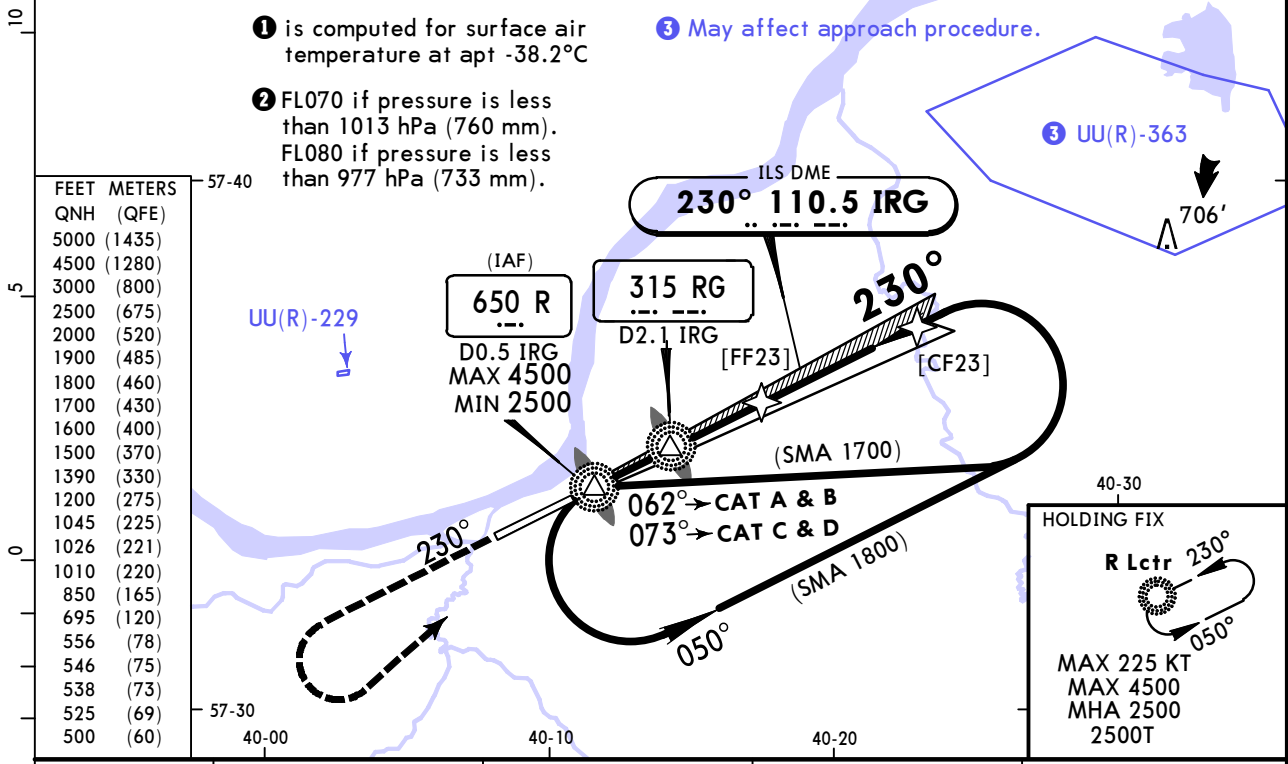
PAINS OPS	Std	STRAIGHT-IN LANDING		CIRCLE-TO-LAND	
		DA(H) A: 525' (224') C: 546' (245') B: 538' (237') D: 556' (255')		Circling height based on rwy 23 thresh elev of 301'	
			ALS out	Max KT	MDA(H)
	A		R1200m	100	850' (549') V1500m
	B	■ R550m	R1300m	135	850' (549') V1600m
C			180	1010' (709') V2400m	
D	■ R600m		205	1900' (1599') V3600m	
	■ R750m when a Flight Director or Autopilot or HUD to DA ist not used.				

UUDL/IAR
TUNOSHNA

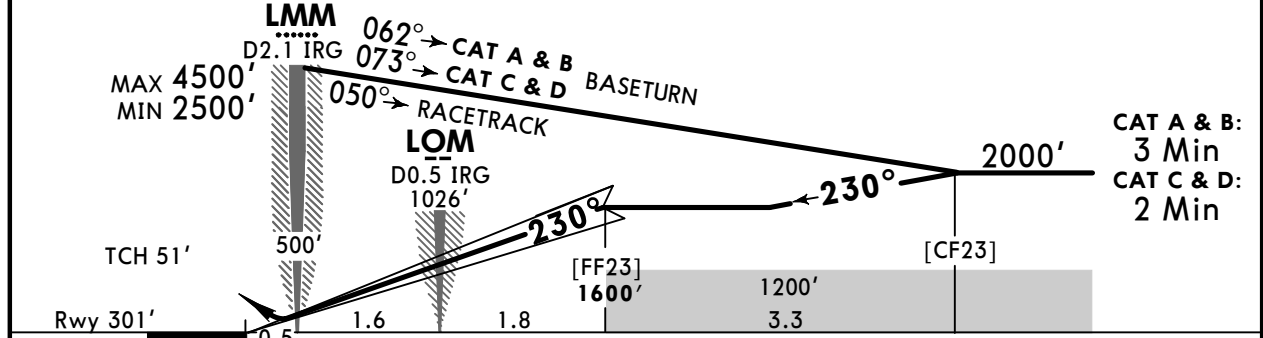
JEPPESEN
7 MAR 25 **(11-2)** Eff 20 Mar

YAROSLAVL, RUSSIA
ILS X Rwy 23

ATIS				YAROSLAVL Tower		
127.350				120.3		120.0X
LOC IRG 110.5	Final Apch Crs 230°	[FF23] 1600' (1299')	DA(H) Refer to Minimums	Apt Elev 305' Rwy 301'		3000 MSA ARP ①
MISSED APCH: Climb STRAIGHT AHEAD to 1500' or above, then turn LEFT (MAX 205 KT) to R Lctr climbing to 2500' or above, then proceed according to chart, or as directed.						
Alt Set: hPa (MM on req)		Rwy Elev: 11 hPa	Trans level: FL060 ②		Trans alt: 5000'	
1. CAT C & D: MAX 205 KT. 2. ILS DME reads zero at RWY 23 thresh.						



DIST to RW23	1.1	2.2	3.2	3.8
ALTITUDE	695'	1045'	1390'	1600'



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	MIN 1500'
Gs	3.00°	372	478	531	637	849		

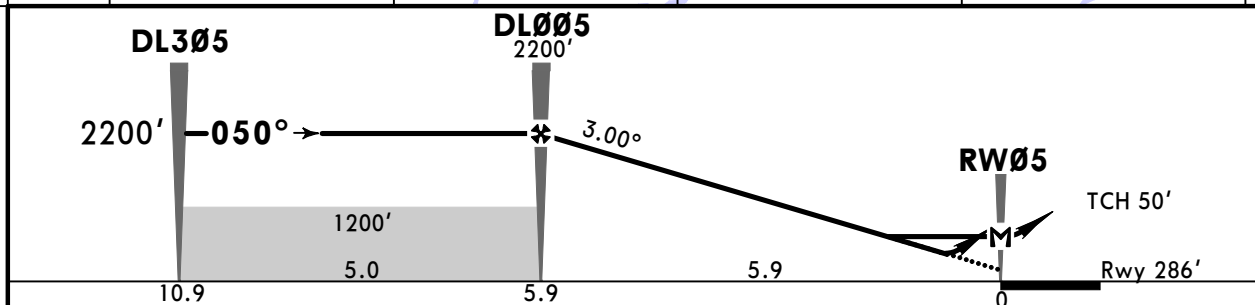
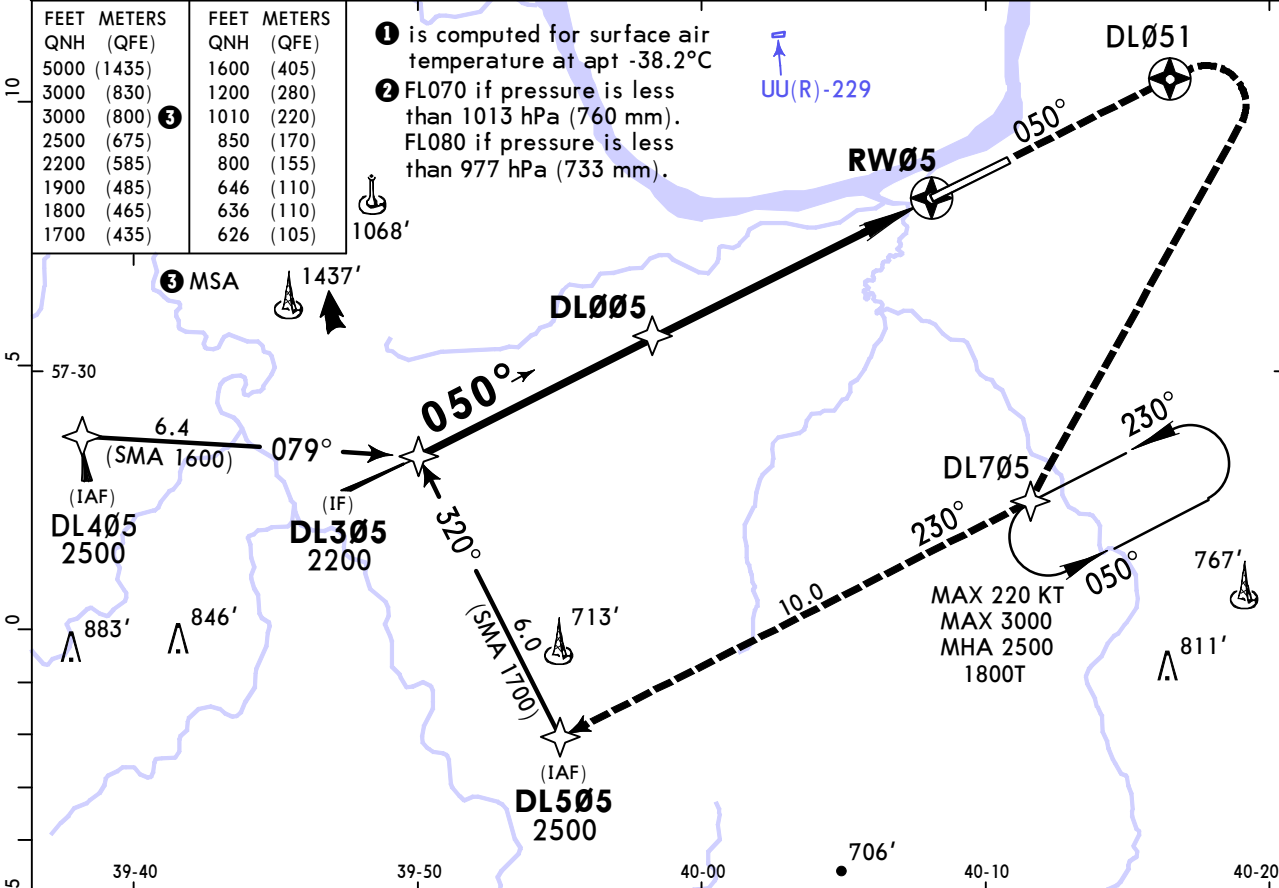
PANS OPS	Std STRAIGHT-IN LANDING		CIRCLE-TO-LAND		
	DA(H) A: 525' (224') C: 546' (245') B: 538' (237') D: 556' (255')		Circling height based on rwy 23 thresh elev of 301'		
	ALS out		Max KT	MDA(H)	
	A	R550m	100	850' (549') V1500m	
	B	R550m	135	850' (549') V1600m	
C		180	1010' (709') V2400m		
D	R600m	205	1900' (1599') V3600m		
R750m when a Flight Director or Autopilot or HUD to DA ist not used.					

**UUDL/IAR
TUNOSHNA**

JEPPESEN
6 JUN 25 (12-1) Eff 12 Jun

**YAROSLAVL, RUSSIA
RNP Rwy 05**

ATIS 127.350			YAROSLAVL Tower 120.3			120.0X
RNAV	Final Apch Crs 050°	DL005 2200' (1914')	LNAV/VNAV DA(H) Refer to Minimums	Apt Elev 305'	Rwy 286'	3000 MSA ARP ①
MISSED APCH: Climb STRAIGHT AHEAD to DL051 (MAX 215 KT), then turn RIGHT to DL705, then proceed to DL505 climbing to 2500' or above, or as directed.						
Alt Set: hPa (MM on req)		Rwy Elev: 10 hPa	Trans level: FL060 ②		Trans alt: 5000'	
RNP Apch	1. GNSS required. 2. Baro-VNAV not authorized below -31°C.					



Gnd speed-Kts	70	90	100	120	140	160	ALS PAPI	DL051 ↑ 215 KT MAX
Glide Path Angle	3.00°	372	478	531	637	743		
MAP at RW05								

PANS OPS	Std STRAIGHT-IN LANDING				CIRCLE-TO-LAND Circling height based on rwy 05 thresh elev of 286'	
	LNAV/VNAV DA(H) A: 626' (340') B: 636' (350')		LNAV CDFA DA/MDA(H) 800' (514')		Max KT	MDA(H)
	ALS out		ALS out			
	A	R1300m	R1500m	R1500m	100	850' (564') V1500m
	B	R1400m	R1600m	R2100m	135	850' (564') V1600m
C	R1400m	R1600m	R2100m	180	1010' (724') V2400m	
D	R1400m	R1600m	R2100m	205	1900' (1614') V3600m	

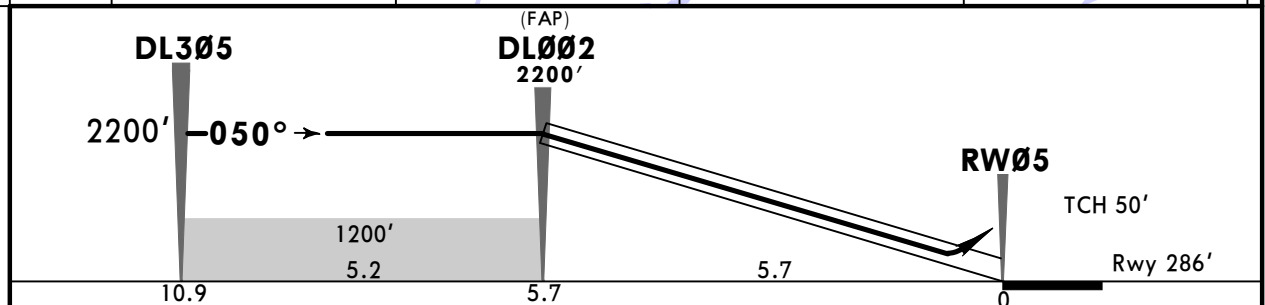
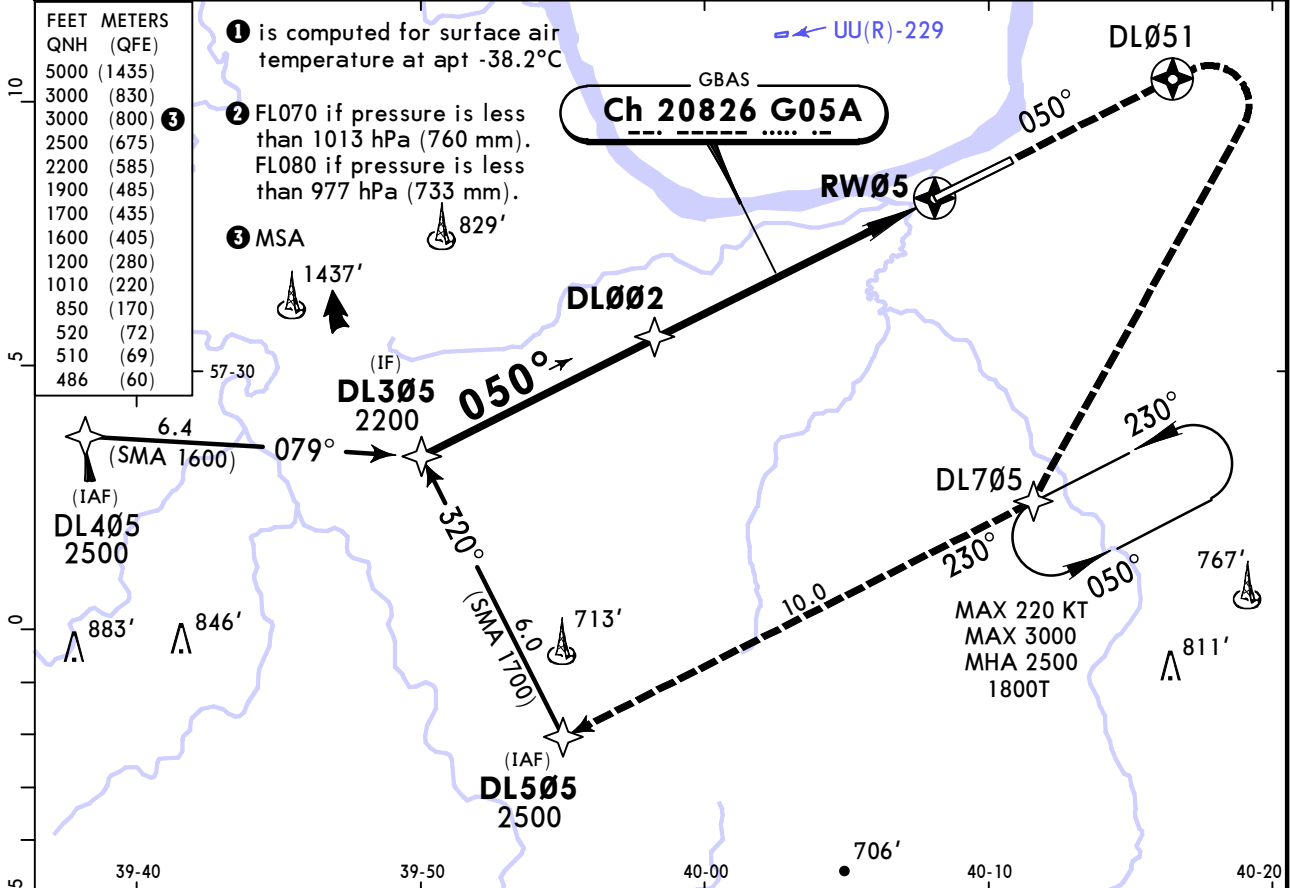
① VNAV DA(H) in lieu of MDA(H) depends on operator policy.
CHANGES: YAROSLAVL Start withdrawn. © JEPPESEN, 2020, 2025. ALL RIGHTS RESERVED.

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TUNOSHNA

JEPPESEN
6 JUN 25 **(12-40)** **Eff 12 Jun**

YAROSLAVL, RUSSIA
GLS Rwy 05

ATIS 127.350			YAROSLAVL Tower 120.3			120.0X
GBAS Ch 20826 G05A	Final Apch Crs 050°	DL002 2200' (1914')	DA(H) Refer to Minimums	Apt Elev 305'	Rwy 286'	3000 MSA ARP ①
MISSED APCH: Climb STRAIGHT AHEAD to DL051 (MAX 215 KT), then turn RIGHT to DL705, then proceed to DL505 climbing to 2500' or above, or as directed.						
Alt Set: hPa (MM on req)		Rwy elev: 10 hPa	Trans level: FL060 ②		Trans alt: 5000'	
RNAV 1 for initial and missed approach.			GNSS required.			



Gnd speed-Kts	70	90	100	120	140	160	ALS PAPI	DL051 ↑ 215 KT MAX
Glide Path Angle 3.00°	372	478	531	637	743	849		

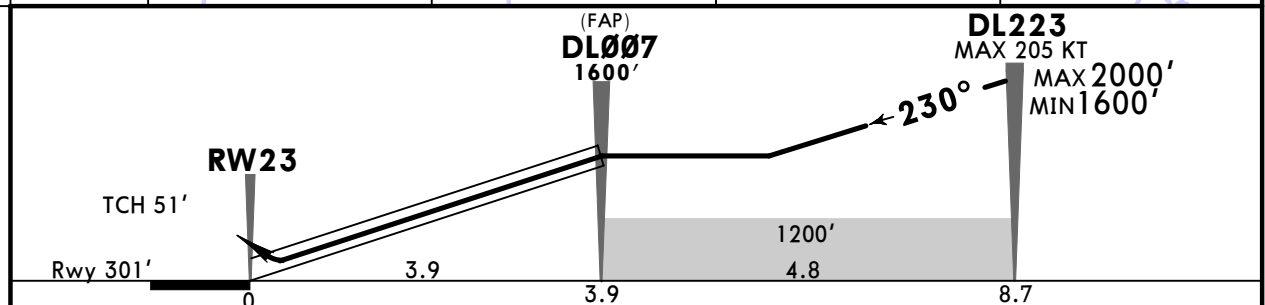
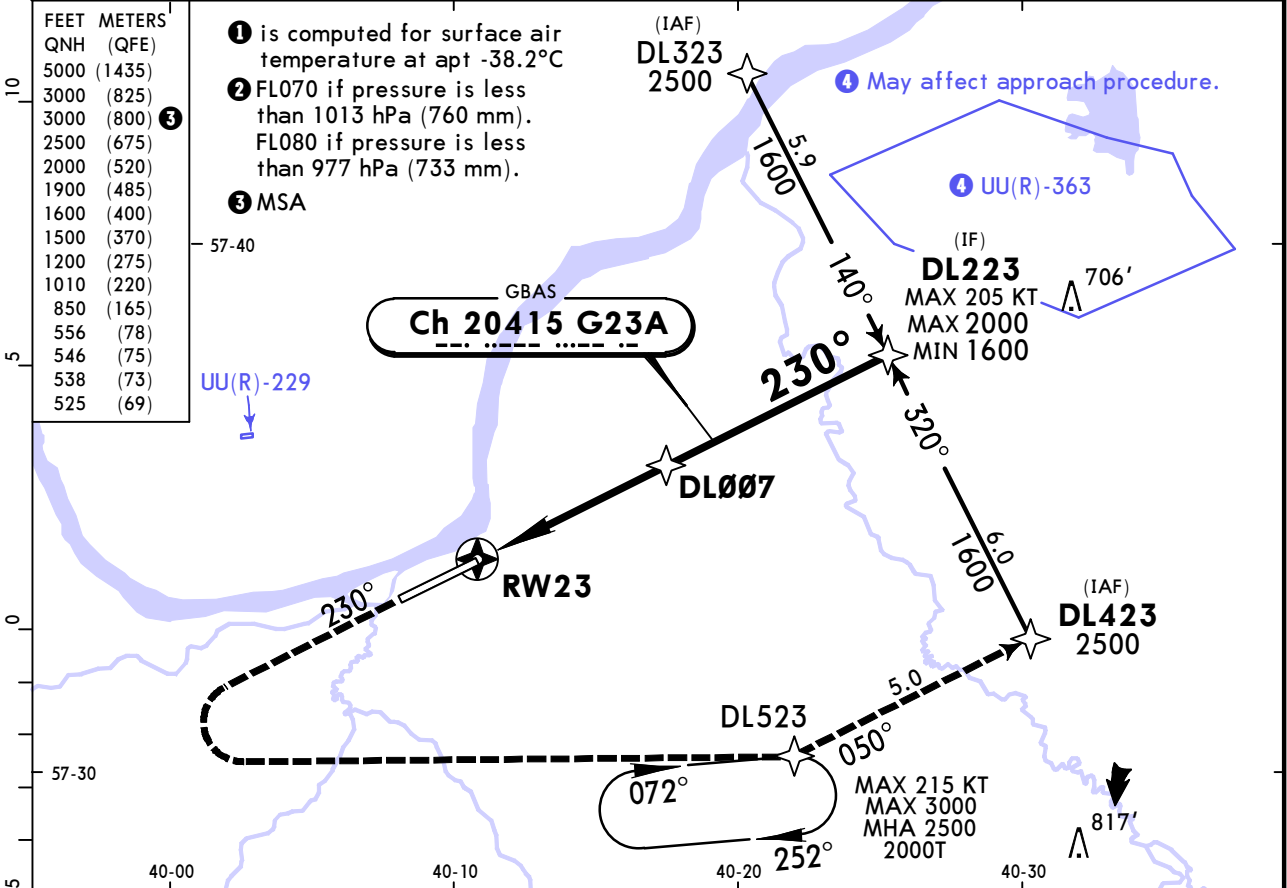
PANS OPS	Std STRAIGHT-IN LANDING		CIRCLE-TO-LAND	
	DA(H) C: 510' (224') AB: 486' (200') D: 520' (234')		Circling height based on rwy 05 thresh elev of 286'	
	ALS out		Max KT	MDA(H)
	A	R1000m	100	850' (564') V1500m
	B	R1200m	135	850' (564') V1600m
C		180	1010' (724') V2400m	
D		205	1900' (1614') V3600m	

UUDL/IAR
TUNOSHNA

JEPPESEN
6 JUN 25 **(12-41)** Eff 12 Jun

YAROSLAVL, RUSSIA
GLS Rwy 23

ATIS 127.350			YAROSLAVL Tower 120.3			120.0X
GBAS Ch 20415 G23A	Final Apch Crs 230°	DL007 1600' (1299')	DA(H) Refer to Minimums	Apt Elev 305'	Rwy 301'	3000 MSA ARP ①
MISSED APCH: Climb STRAIGHT AHEAD to 1500' or above (MAX 215 KT), then turn LEFT to DL523 (MAX 215 KT), then proceed to DL423 climbing to 2500' or above, then proceed according to chart, or as directed.						
Alt Set: hPa (MM on req)		Rwy Elev: 11 hPa	Trans level: FL060 ②		Trans alt: 5000'	
RNAV 1 for initial and missed approach.			GNSS required.			



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI MIN 1500' 215 KT MAX
Glide Path Angle 3.00°	372	478	531	637	743	849	

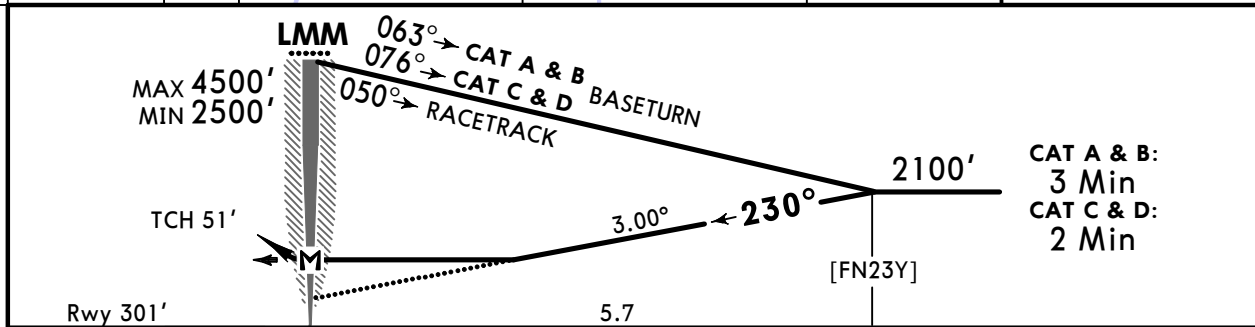
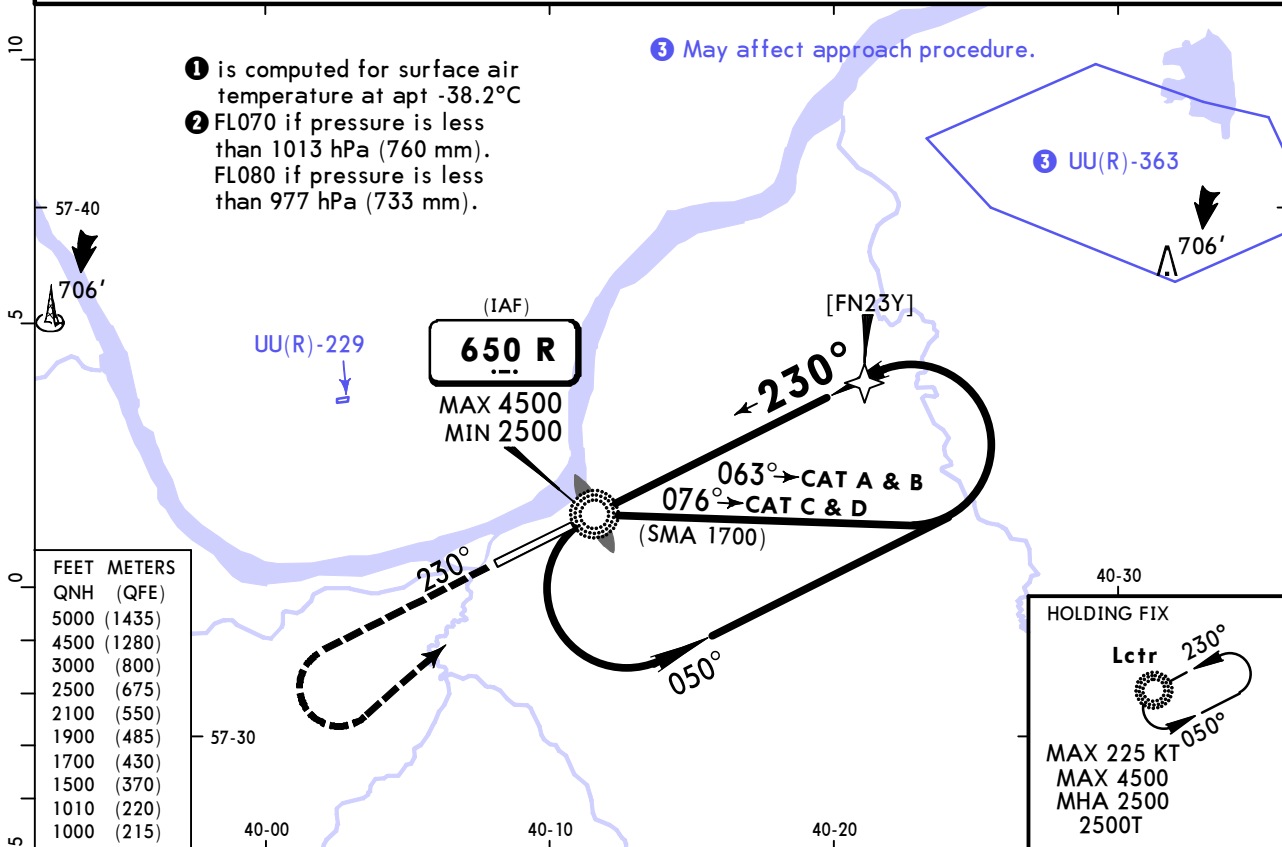
PANS OPS	Std STRAIGHT-IN LANDING		CIRCLE-TO-LAND		
	DA(H) A: 525' (224') C: 546' (245')		Circling height based on rwy 23 thresh elev of 301'		
	B: 538' (237') D: 556' (255')				
	ALS out		Max	MDA(H)	
	A	R550m	R1200m	100	850' (549') V1500m
B	R1300m		135	850' (549') V1600m	
C			180	1010' (709') V2400m	
D			205	1900' (1599') V3600m	
① R750m when a Flight Director or Autopilot or HUD to DA ist not used.					

UUDL/IAR
TUNOSHNA

JEPPESEN
6 JUN 25 **16-1** **Eff 12 Jun**

YAROSLAVL, RUSSIA
NDB Rwy 23

ATIS 127.350			YAROSLAVL Tower 120.3			120.0X
Lctr R 650	Final Apch Crs 230°	[FN23Y] 2300' (1999')	DA/MDA(H) 1000' (699')	Apt Elev 305' Rwy 301'	3000 MSA ARP ①	
MISSED APCH: Climb STRAIGHT AHEAD to 1500' or above, then turn LEFT (MAX 215 KT) to Lctr climbing to 2500' or above, then proceed according chart, or as directed.						
Alt Set: hPa (MM on req)		Rwy Elev: 11 hPa	Trans level: FL060 ②		Trans alt: 5000'	
CAT C & D: MAX 215 KT.						



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	MIN 1500'
Descent Angle 3.00°	372	478	531	637	743	849		
MAP at LMM								

PANS OPS	Std STRAIGHT-IN LANDING		CIRCLE-TO-LAND Circling height based on rwy 23 thresh elev of 301'	
	CDFA ① DA/MDA(H) 1000' (699')			
	ALS out		Max KT	MDA(H)
	A	R1500m	100	1000' (699') V1500m
	B	R1500m	135	1000' (699') V1600m
C	R2400m	180	1010' (709') V2400m	
D	R2400m	205	1900' (1599') V3600m	
① VNAV DA(H) in lieu of MDA(H) depends on operator policy.				

Chart changes since cycle 07-2026

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

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
YAROSLAVL, (TUNOSHNA - UUDL)				

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport UUDL