

## List of pages in this Trip Kit

Trip Kit Index

Airport Information For URML

Terminal Charts For URML

Revision Letter For Cycle 08-2026

Change Notices

Notebook

## General Information

Location: MAKHACHKALA RUS  
ICAO/IATA: URML / MCX  
Lat/Long: N42° 49.02', E047° 39.15'  
Elevation: 16 ft

Airport Use: Public  
Daylight Savings: Not Observed  
UTC Conversion: -3:00 = UTC  
Magnetic Variation: 7.0° 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: 0139 Z  
Sunset: 1553 Z

## Runway Information

Runway: 14  
Length x Width: 8661 ft x 148 ft  
Surface Type: asphalt  
TDZ-Elev: 8 ft  
Lighting: Edge, ALS

Runway: 32  
Length x Width: 8661 ft x 148 ft  
Surface Type: asphalt  
TDZ-Elev: 15 ft  
Lighting: Edge, ALS

## Communication Information

ATIS: 124.800 Non-English  
ATIS: 125.475  
Makhachkala Tower: 124.000  
Makhachkala Tower: 121.300 Non-English  
Makhachkala Approach: 119.700 Non-English  
Makhachkala Approach: 124.000  
Makhachkala Radar: 124.000  
Makhachkala Transit Operations: 131.600  
Makhachkala Radar: 121.300

URML/MCX  
UYTASH

JEPPESEN

19 SEP 25

10-1P

Eff 2 Oct

MAKHACHKALA, RUSSIA

AIRPORT BRIEFING

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## 1. GENERAL

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### 1.1. ATIS

ATIS 125.475  
124.8 (Russian)

### 1.2. LOW VISIBILITY PROCEDURES (LVP)

LVP are applied by ATC when RVR is less than 550m by the following phrase:  
"Low visibility procedures in progress, check your minimum".

When LVP are in force, it is prohibited

- to take off not from RWY beginning (except CAT A ACFT);
- to take off without stop at line-up position after entering the RWY;
- to maneuver more than one ACFT along the apron to TWY A or B.

### 1.3. TAXIING PROCEDURES

Taxiing and towing by MAKHACHKALA Start (TWR) controller's clearance.

During hours of darkness and in the daytime, when visibility is less than 2000m, taxi operations shall be carried out strictly along the taxi guidelines after Follow-me vehicle.

ACFT shall perform 180° turns with maximum radius of turn on the turn pad at the end of RWY.

ACFT braked pivot turn (with braking of one wheel) is prohibited.

Class 1 and 2 ACFT shall taxi on the apron at idle power. During ACFT maneuvering, a short-term increase of engines power is allowed. In such cases ACFT must avoid turning, if there are people, aerodrome maintenance equipment or ACFT being serviced in the direction opposite to ACFT turn, at a distance of less than 50 m.

At NIGHT and in the DAY-time, when visibility is below 400 m, ACFT shall taxi on the apron from TWY A to the stands after the Follow-me vehicle, strictly along the taxi guideline.

### 1.4. PARKING INFORMATION

Stands 1 thru 7 available for helicopters.

### 1.5. COMMUNICATION FAILURE PROCEDURES

In case of radio communication failure:

- listen to information and instructions of the controller on frequency of LOM, LMM of the RWY-in-use;
- use mobile communication with Flight Control Officer to coordinate actions  
Phone: +8 872-267-08-69.

### 1.6. OTHER INFORMATION

Birds in vicinity of APT.

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## 2. ARRIVAL

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### 2.1. COMMUNICATION FAILURE PROCEDURES

After entry into CTA continue at last assigned flight level cleared by ATS to join holding over NDB (LOM, LMM of the active heading).

Continue holding to reduce fuel as necessary. Descend at ETA or as close to this time as possible to FL130 without leaving holding.

Aerodrome pressure (QFE) shall be set at transition level FL130 and descent shall be continued according to the established procedure. Landing shall be carried out not later than 30 minutes after ETA.

URML/MCX  
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19 SEP 25

10-1P1

Eff 2 Oct

MAKHACHKALA, RUSSIA

AIRPORT BRIEFING

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### 3. DEPARTURE

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#### 3.1. DE-ICING

De-icing treatment of ACFT is carried out on start-up positions behind stands 1 thru 15 and on stands 1 thru 8. De-icing treatment of ACFT with running engines is not provided.

#### 3.2. START-UP PROCEDURES

Engine start-up shall be carried with MAKHACHKALA Start (TWR) controller's clearance.

#### 3.3. COMMUNICATION FAILURE PROCEDURES

In case communication with MAKHACHKALA Radar is not established at 700' (200m):

- In case of taking the decision to return climb according to the missed approach procedure to join holding, execute IAP if meteorological conditions and landing mass are suitable.
- In case of taking the decision to proceed to the destination or alternate, continue along the route indicated in departure clearance climbing to flight level indicated in the flight plan or one of flight levels FL140, FL150, FL240, FL250, depending on flight direction.

#### 3.4. CAT A OPERATIONS

Execution of an IFR flight by CAT A ACFT and HEL breaking through clouds at Makhachkala/Uytash to join commuter routes over mountainous terrain shall be cleared, when cloud top over the aerodrome is not more than 5900' (1800m) and alternate aerodrome is AVBL.

If ACFT has not got out of clouds at 5900' (1800m), execute descent and approach to departure aerodrome.

# URML/MCX UYTASH

**JEPPESEN**  
26 SEP 25 (10-1R) Eff 2 Oct

**MAKHACHKALA, RUSSIA**  
**RADAR MINIMUM ALTITUDES**

MAKHACHKALA  
Radar  
**121.3**

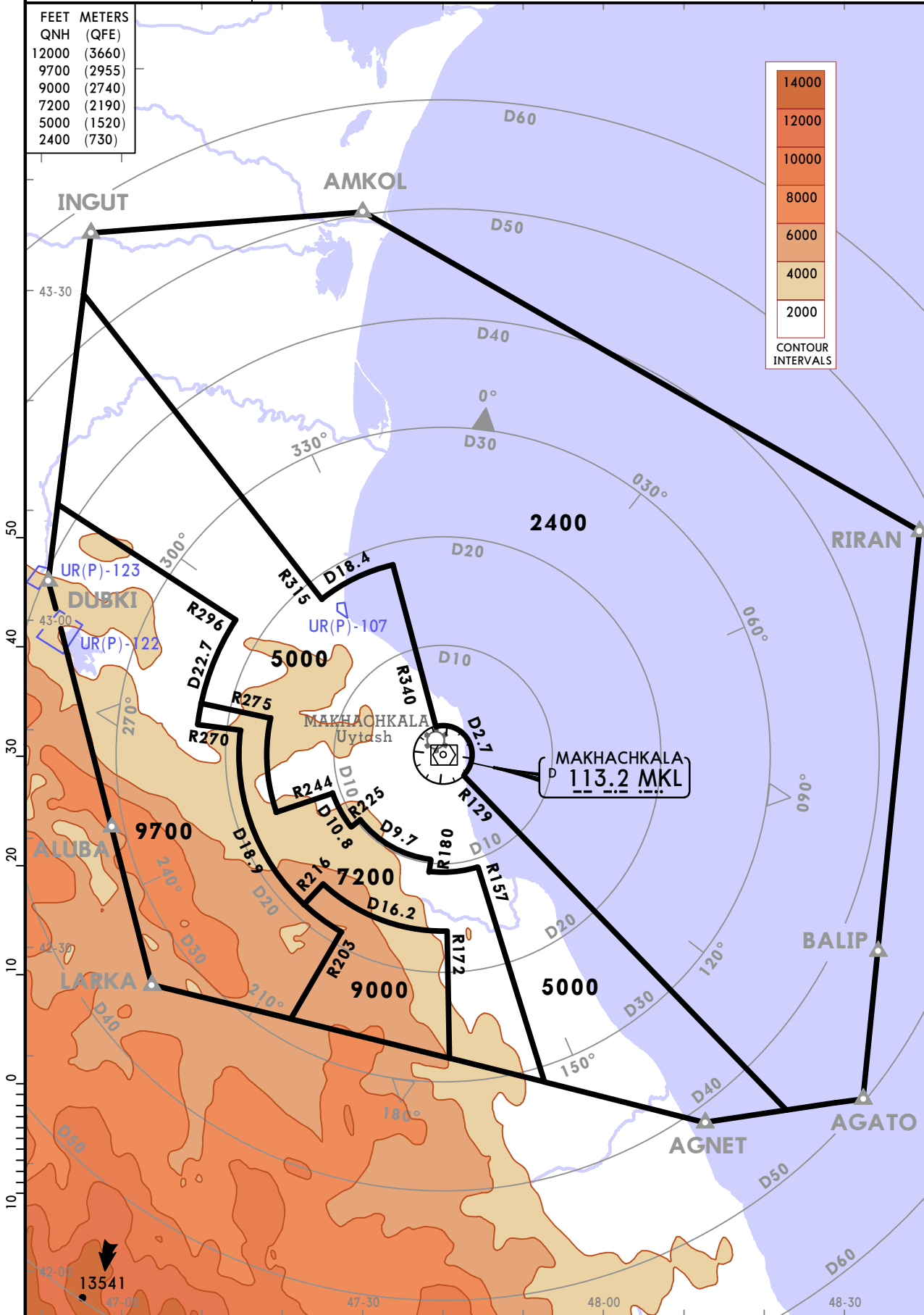
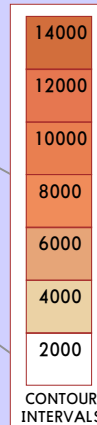
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Apt Elev  
**16**

Alt Set: hPa (MM on request)  
Trans level: FL130  
FL140 when pressure is less than 1013 hPa (760mm)  
FL150 when pressure is less than 977 hPa (733mm)  
Trans alt: 12000 QNH (QFE on request)

1. Chart only to be used for cross checking of altitudes while under RADAR control.
2. In case of vectoring under low temperature conditions, the minimum vectoring altitudes must be corrected by altimeter temperature correction.

FEET	METERS
12000	(3660)
9700	(2955)
9000	(2740)
7200	(2190)
5000	(1520)
2400	(730)



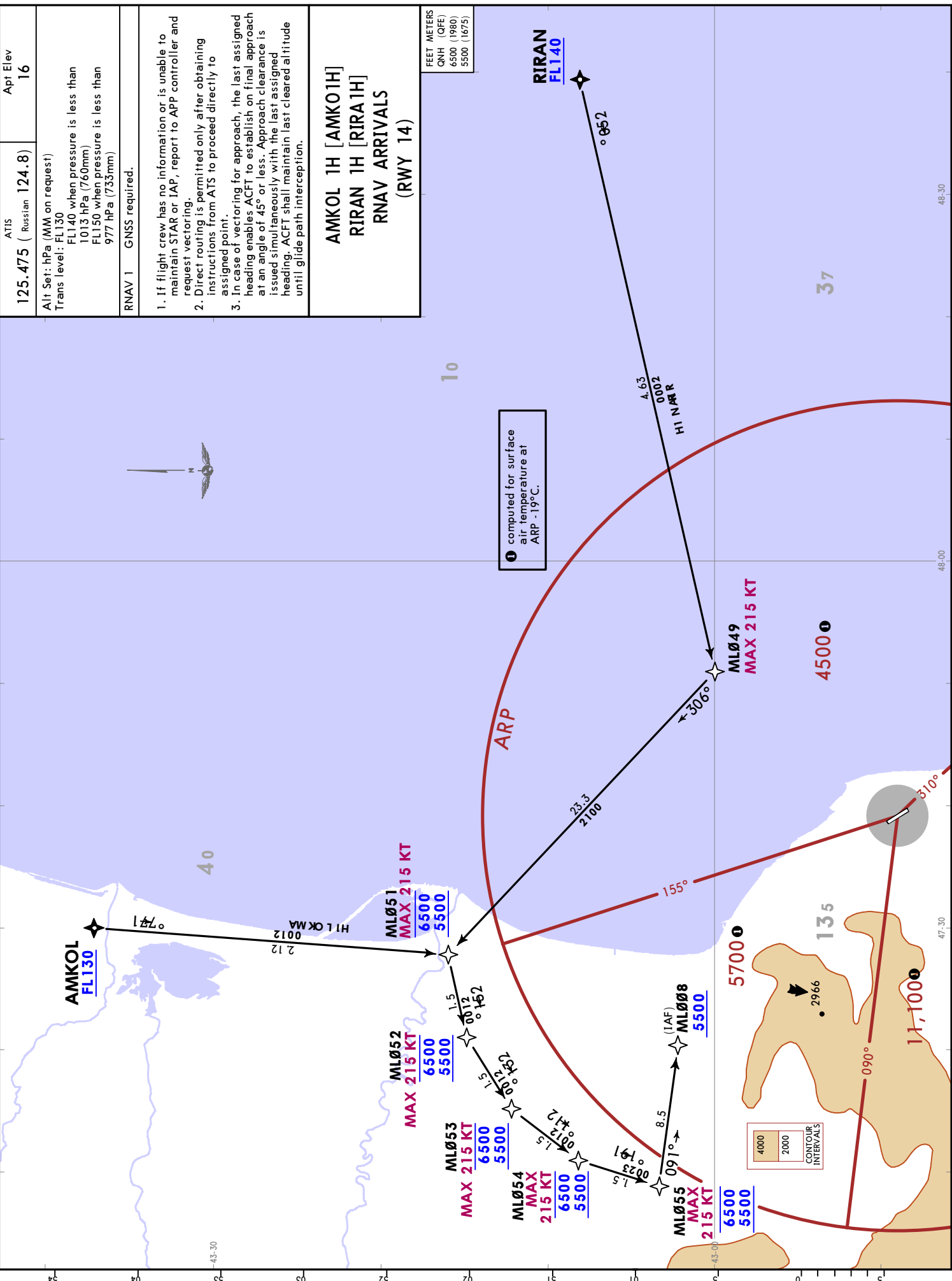
**MAKHACHKALA, RUSSIA**  
**RNAV STAR**

ATIS (Russian) 125.475  
 Apt Elev 16  
 Alt Set: hPa (MM on request)  
 Trans level: FL130  
 FL140 when pressure is less than 1013 hPa (760mm)  
 FL150 when pressure is less than 977 hPa (733mm)  
 RNAV 1 GNSS required.

1. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.
2. Direct routing is permitted only after obtaining instructions from ATIS to proceed directly to assigned point.
3. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.

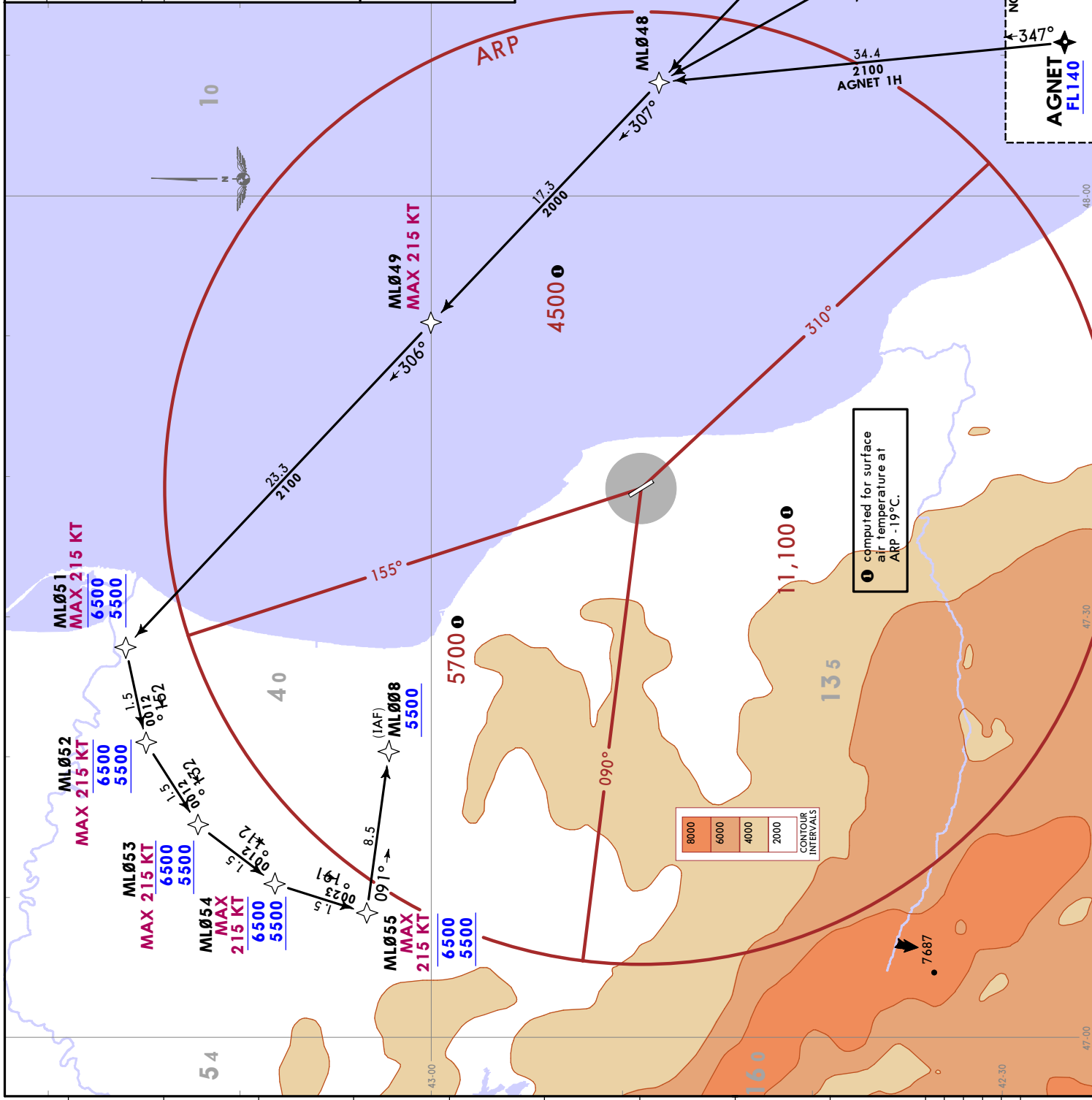
**AMKOL 1H [AMKO1H]  
 RIRAN 1H [RIRA1H]  
 RNAV ARRIVALS  
 (RWY 14)**

FEET METERS  
 QNH (QFE) 6500 (1980)  
 5500 (1675)



ATIS (Russian 124.8)	Apt Elev 16
125.475	
Alt Set: hPa (MM on request)	
Trans level: FL130	
FL140 when pressure is less than 1013 hPa (760mm)	
FL150 when pressure is less than 977 hPa (733mm)	
RNAV 1 GNS required.	
<p>1. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.</p> <p>2. Direct routing is permitted only after obtaining instructions from ATIS to proceed directly to assigned point.</p> <p>3. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.</p>	
<p>AGATO 1H [AGAT1H]</p> <p>AGNET 1H [AGNE1H]</p> <p>BALIP 1H [BALI1H]</p> <p>RNAV ARRIVALS (RWY 14)</p>	

FEET METERS	
QNH (QFE)	
6500 (1980)	
5500 (1675)	



① computed for surface air temperature at ARP - 19°C.

CONTOUR INTERVALS	
8000	
6000	
4000	
2000	

**MAKHACHKALA, RUSSIA**  
**RNAV STAR**

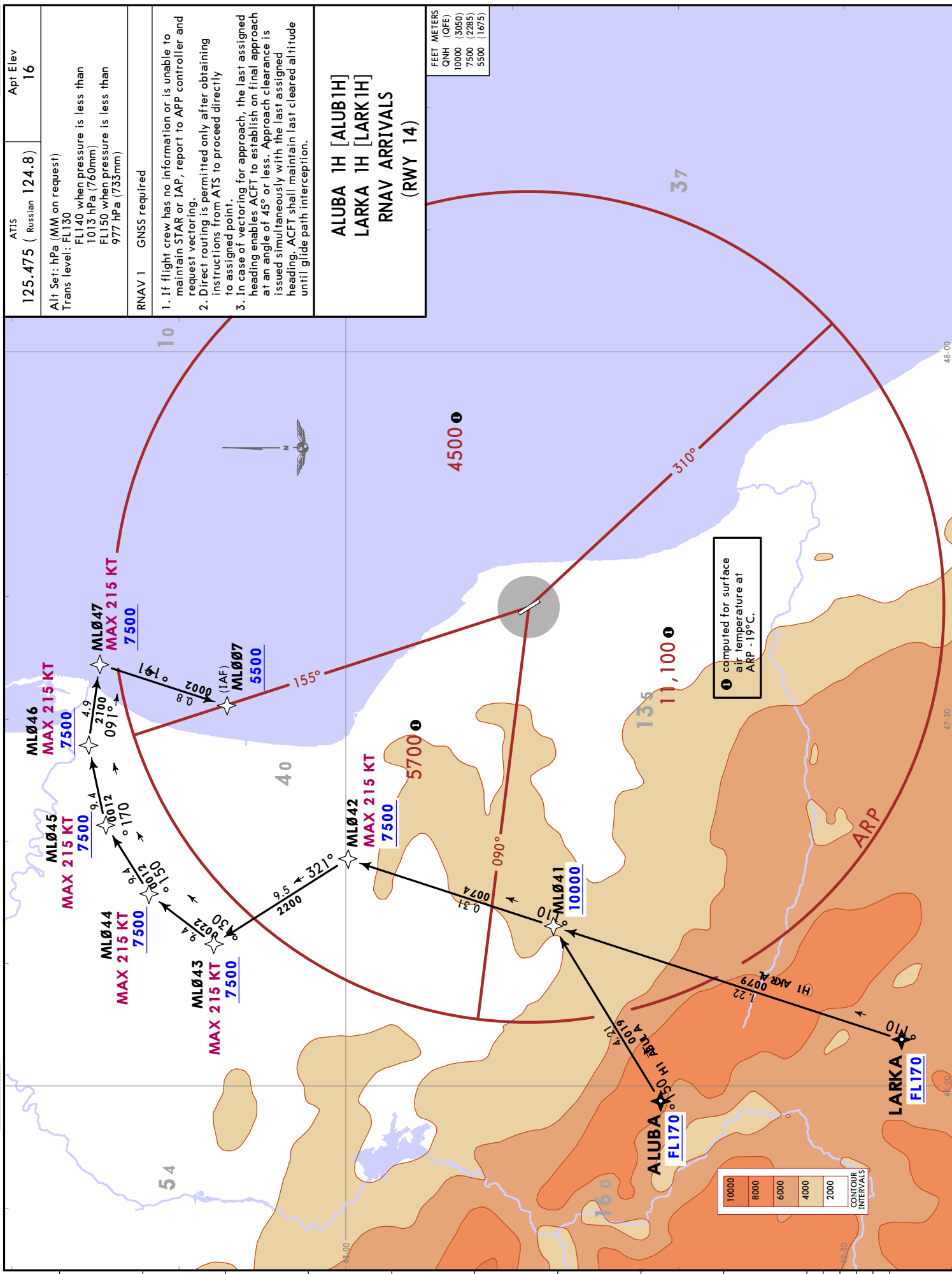
ATIS (Russian) 125.475  
 Apt Elev 16  
 Alt Set: hPa (MM on request)  
 Trans level: FL130  
 FL140 when pressure is less than 1013 hPa (760mm)  
 FL150 when pressure is less than 977 hPa (733mm)

RNAV 1 GNSS required  
 1. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.  
 2. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point.  
 3. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.

**ALUBA 1H [ALUB1H]  
 LARKA 1H [LARK1H]  
 RNAV ARRIVALS  
 (RWY 14)**

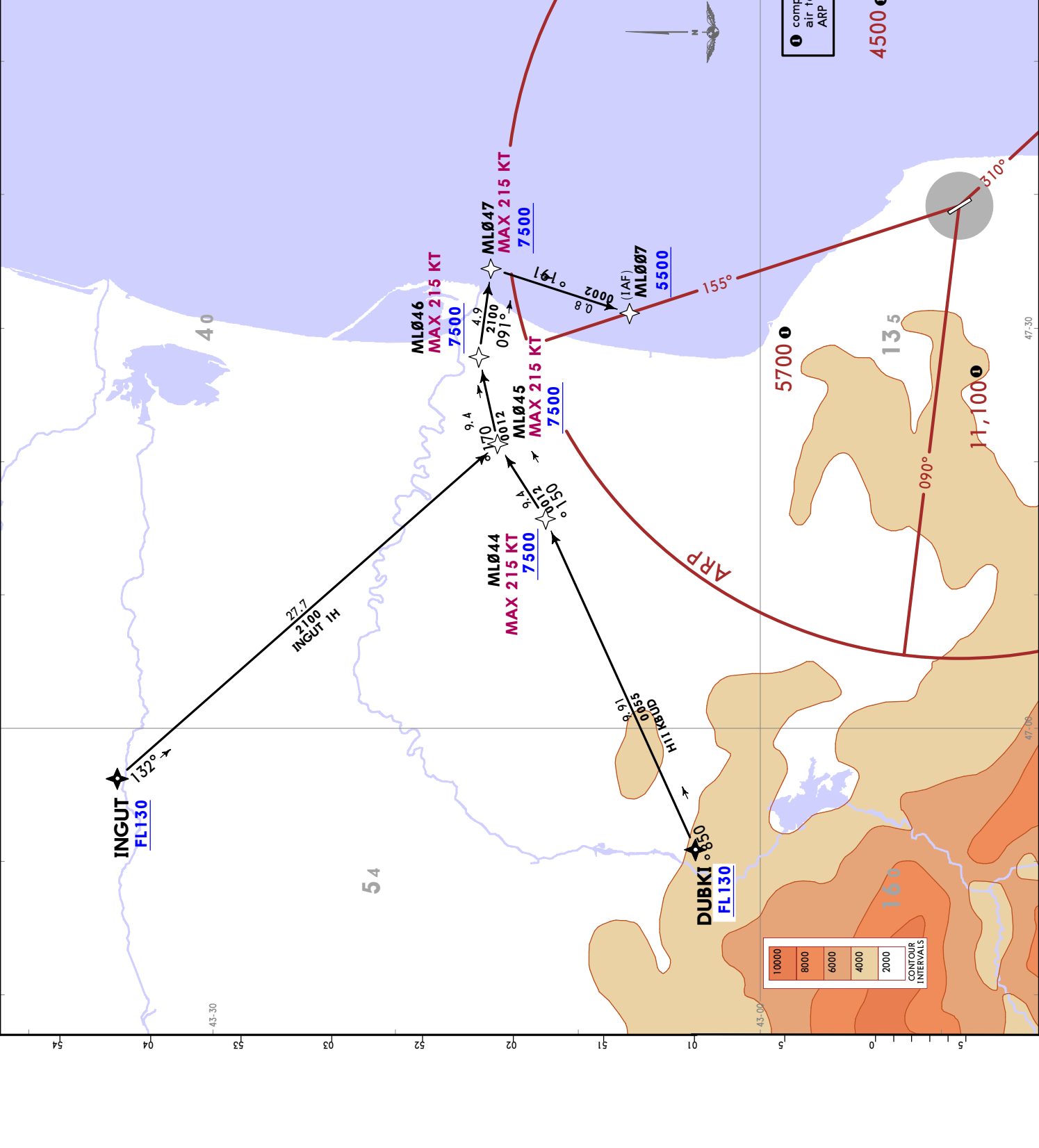
FEET METERS	
QNH (QFE)	10000 (3050)
	7500 (2285)
	5500 (1675)

**URML/MCX**  
**UYTASH**  
 JEPPESEN  
 26 SEP 25  
 EFF 2 OCT 10-2B



ATIS	125.475 ( Russian 124.8)	Apt Elev	16
Alt Set: hPa (MM on request) Trans level: FL130 FL140 when pressure is less than 1013 hPa (760mm) FL150 when pressure is less than 977 hPa (733mm)		RNAV 1 GNSS required.	
<p>1. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.</p> <p>2. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point.</p> <p>3. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.</p>			
<b>DUBKI 1H [DUBK1H]</b> BY ATC <b>INGUT 1H [INGUT1H]</b> RNAV ARRIVALS (RWY 14)			

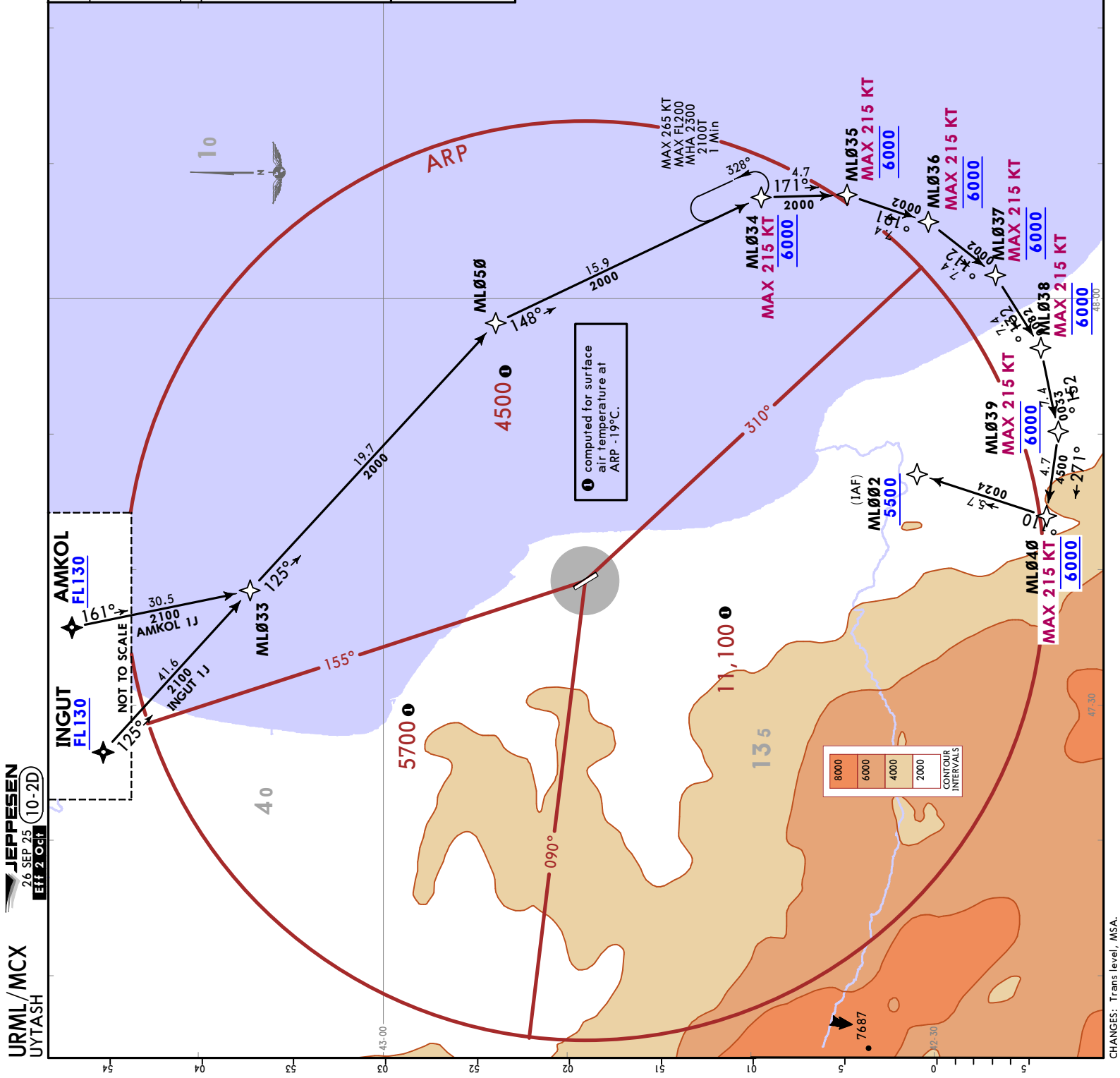
FEET METERS	
QNH (QFE)	7500 (2285)
	5500 (1675)



**MAKHACHKALA, RUSSIA**  
**RNAV STAR**

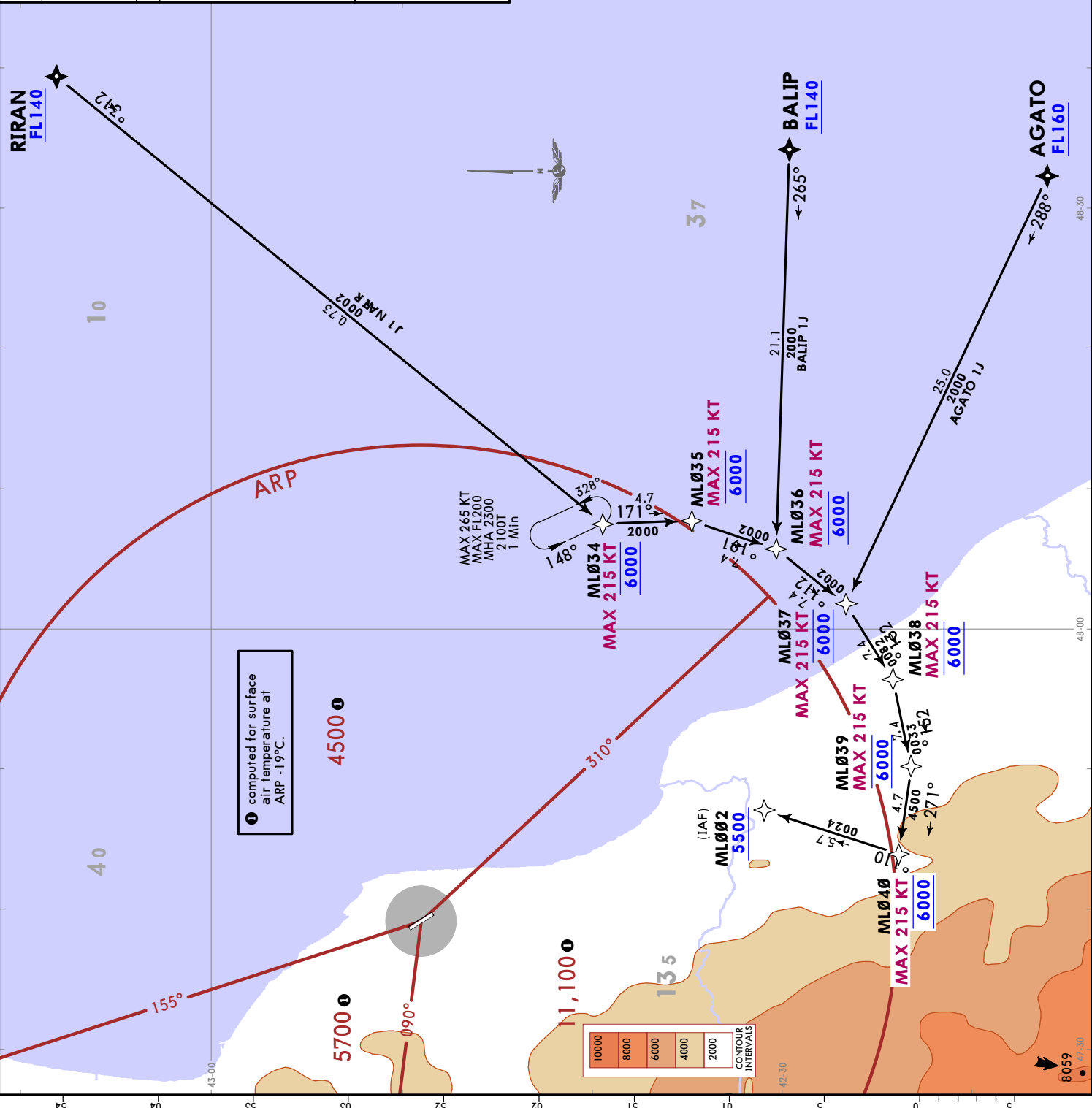
ATIS (Russian 124.8)	Apt Elev 16
Alt Set: hPa (MM on request) Trans level: FL130 FL140 when pressure is less than 1013 hPa (760mm) FL150 when pressure is less than 977 hPa (733mm)	
RNAV 1 GNS required.	
<ol style="list-style-type: none"> <li>1. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.</li> <li>2. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point.</li> <li>3. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.</li> </ol>	
<b>AMKOL 1J [AMK01J]</b> <b>INGUT 1J [INGU1J]</b> <b>RNAV ARRIVALS (RWY 32)</b>	

FEET METERS	
QNH (QFE)	6000 (1825)
	5500 (1675)
	2300 (700)



ATIS (Russian 124.8)	Apt Elev 16
125.475	
Alt Set: hPa (MM on request)	
Trans level: FL130	
FL140 when pressure is less than 1013 hPa (760mm)	
FL150 when pressure is less than 977 hPa (733mm)	
RNAV 1 GNSS required	
1. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring. 2. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point. 3. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.	
<b>AGATO 1J [AGAT1J]                  BALIP 1J [BALI1J]                  RIRAN 1J [RIRA1J]                  RNAV ARRIVALS                  (RWY 32)</b>	

FEET METERS	
QNH (QFE)	
6000 (1825)	
5500 (1675)	
2300 (700)	

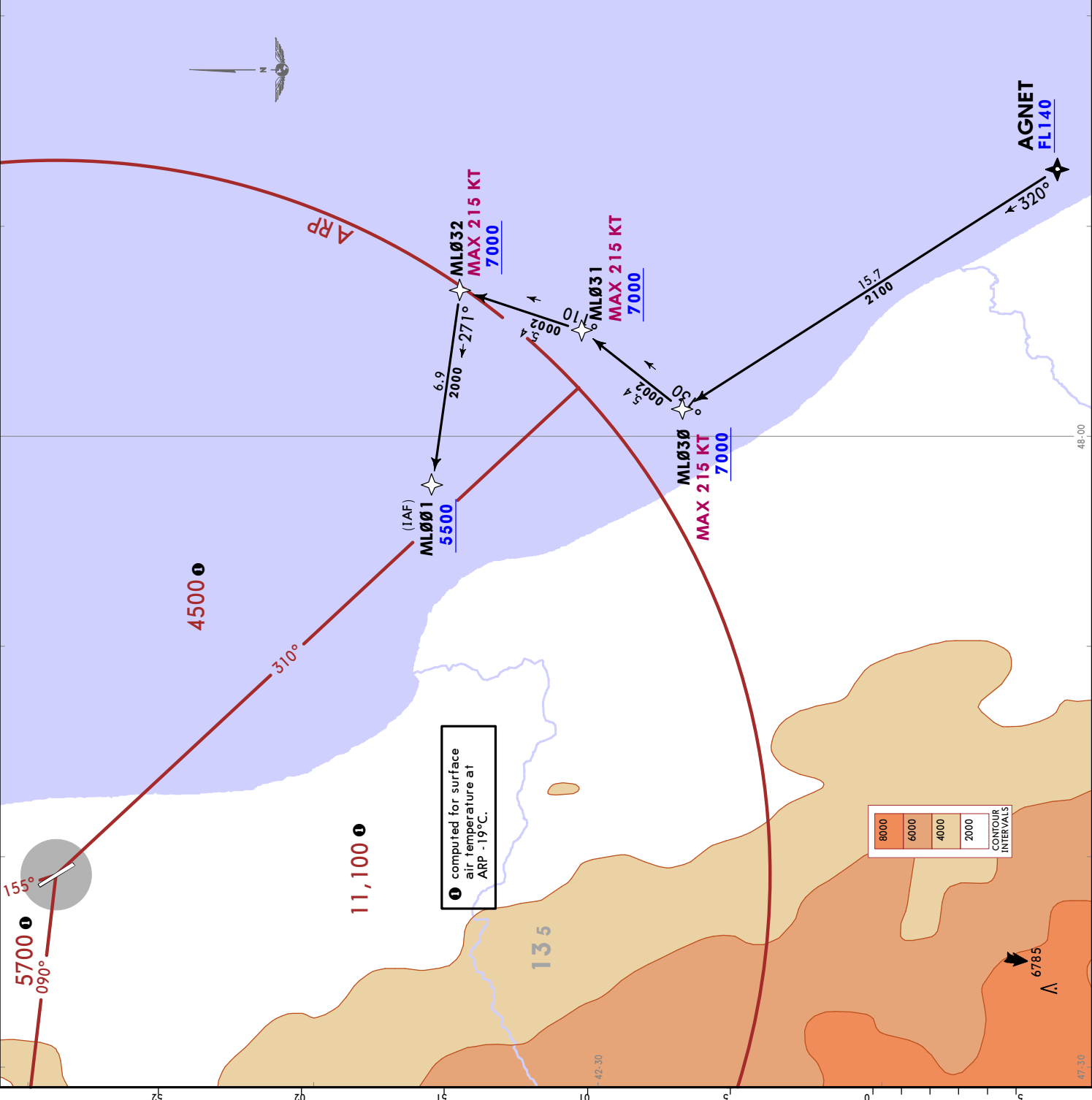


**URML/MCX**  
UYTASH

**JEPPESEN**  
26 SEP 25  
Eff 2 Oct 10-2F

**MAKHACHKALA, RUSSIA**  
RNAV STAR

ATIS <b>125.475</b> ( Russian 124.8)	Apt Elev <b>16</b>						
Alt Set: hPa (MM on request) Trans level: FL130 FL140 when pressure is less than 1013 hPa (760mm) FL150 when pressure is less than 977 hPa (733mm)							
RNAV 1 GNSS required							
<ol style="list-style-type: none"> <li>1. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.</li> <li>2. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point.</li> <li>3. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.</li> </ol>							
<b>AGNET 1J [AGNE1J]</b> <b>RNAV ARRIVAL</b> <b>(RWY 32)</b>							
<table border="1"> <tr> <th>FEET</th> <th>METERS</th> </tr> <tr> <td>QNH (QFE)</td> <td>7000 (2130)</td> </tr> <tr> <td></td> <td>5500 (1675)</td> </tr> </table>		FEET	METERS	QNH (QFE)	7000 (2130)		5500 (1675)
FEET	METERS						
QNH (QFE)	7000 (2130)						
	5500 (1675)						



**JEPPESEN**  
 26 SEP 25 (10-2G) Eff 2 Oct  
**URML/MCX**  
 UYTASH

**MAKHACHKALA, RUSSIA**  
**RNAV STAR**

ATIS (Russian 124.8)  
 125.475

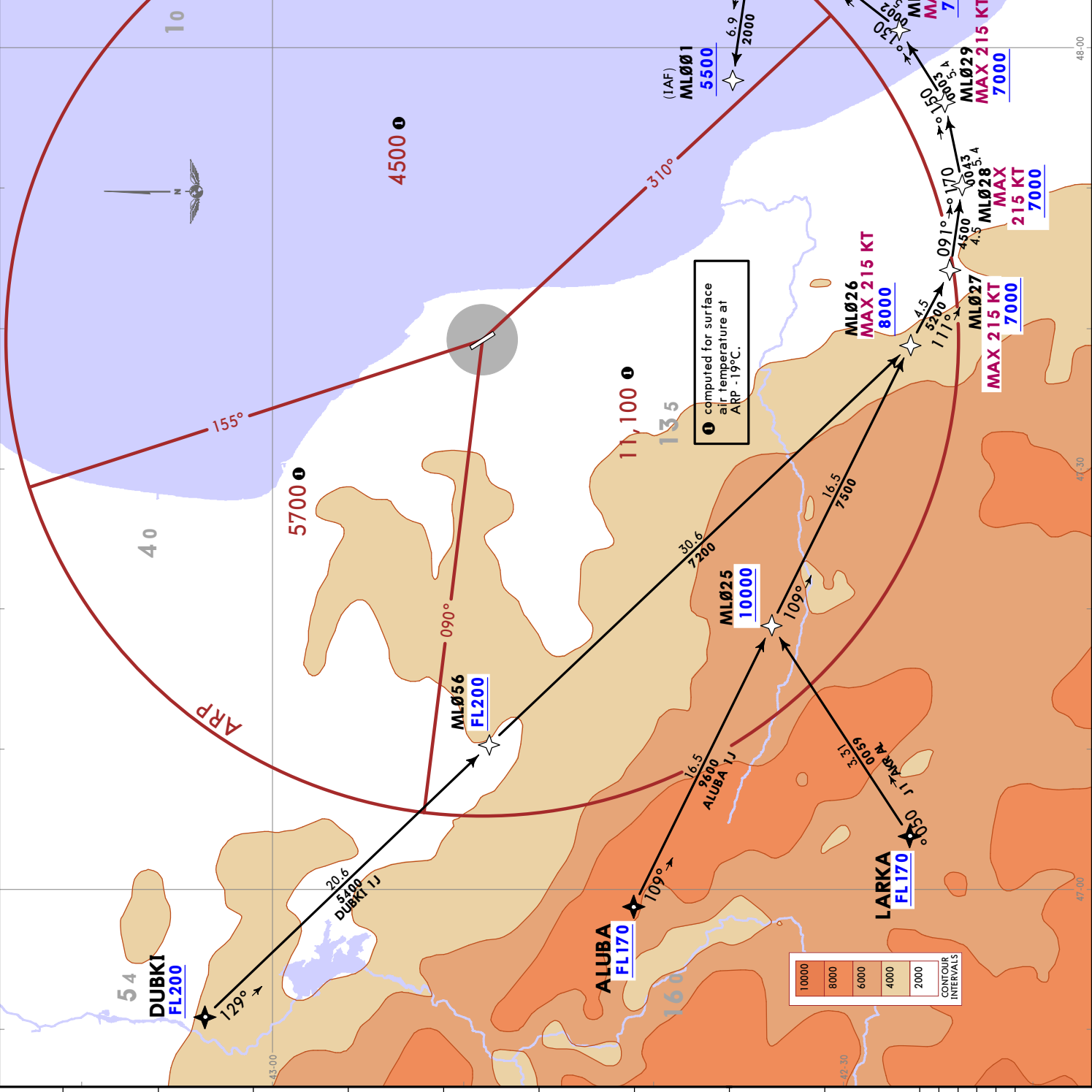
Alt Set: hPa (MM on request)  
 Trans level: FL130  
 FL140 when pressure is less than 1013 hPa (760mm)  
 FL150 when pressure is less than 977 hPa (733mm)

RNAV 1 GNSS required

1. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.
2. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point.
3. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.

**ALUBA 1J [ALUB1J]  
 LARKA 1J [LARK1J]  
 DUBKI 1J [DUBK1J]  
 BY ATC  
 RNAV ARRIVALS  
 (RWY 32)**

FEET	METERS
GNH (QFE)	10000 (3045)
	8000 (2435)
	7000 (2130)
	5500 (1675)

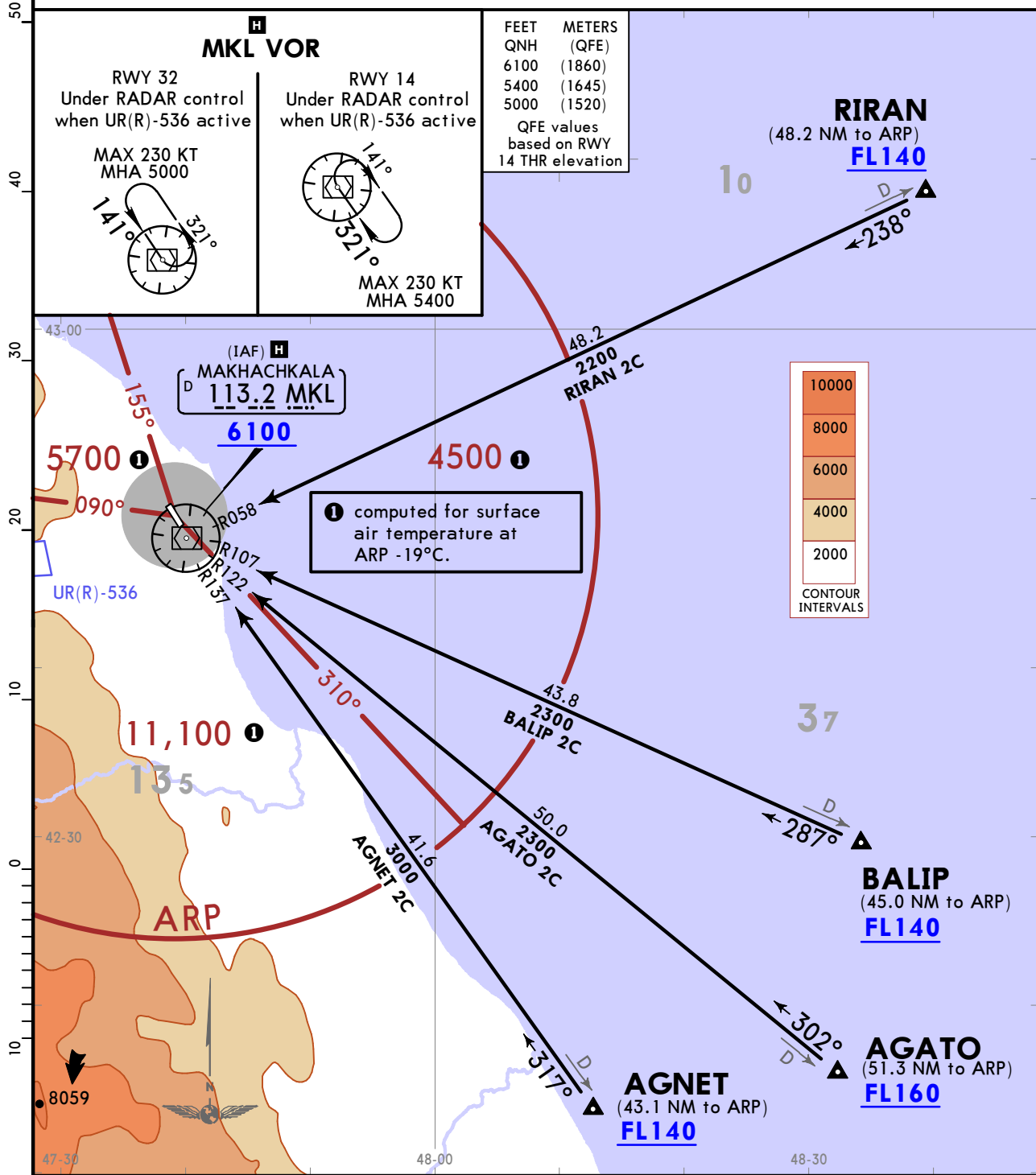


**URML/MCX**  
UYTASH

**JEPPESSEN** MAKHACHKALA, RUSSIA  
17 OCT 25 (10-2H) **STAR**

ATIS <b>125.475</b> (Russian 124.8)	Alt Set: hPa (MM on request) Trans level: FL130 FL140 when pressure is less than 1013 hPa (760mm) FL150 when pressure is less than 977 hPa (733mm)
Apt Elev <b>16</b>	1. DME or RADAR control required. 2. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring. 3. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point. 4. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.

**AGATO 2C [AGAT2C], AGNET 2C [AGNE2C]  
BALIP 2C [BALI2C], RIRAN 2C [RIRA2C]**  
**ARRIVALS**  
**(ALL RWYS)**



**URML/MCX**  
UYTASH

**JEPPESEN**  
17 OCT 25 (10-2J)

**MAKHACHKALA, RUSSIA**  
**STAR**

ATIS  
**125.475**  
(Russian 124.8)

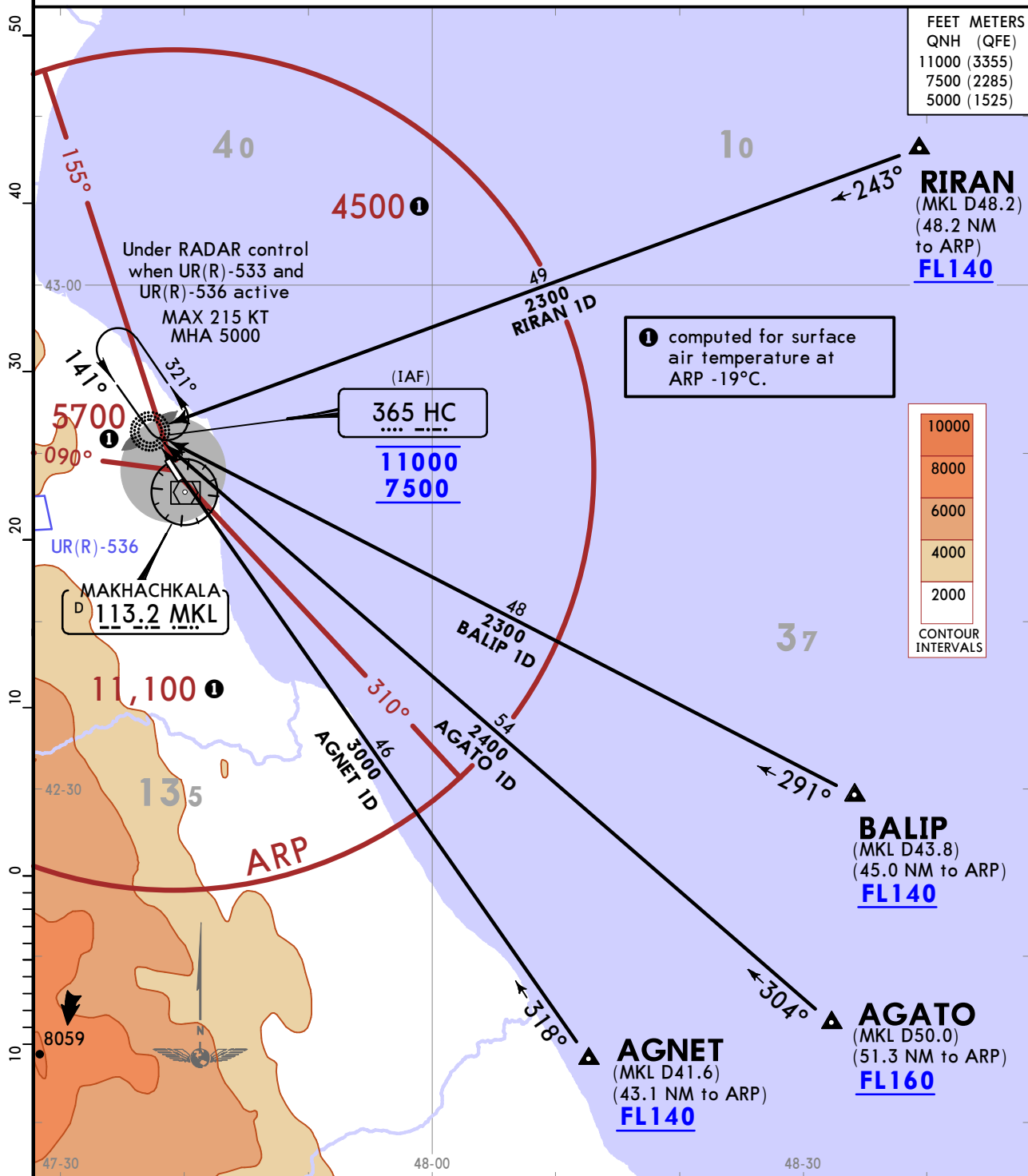
Apt Elev  
**16**

Alt Set: hPa (MM on request)  
Trans level: FL130  
FL140 when pressure is less than 1013 hPa (760mm)  
FL150 when pressure is less than 977 hPa (733mm)

1. DME or RADAR control required.
2. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.
3. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point.
4. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less.

Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.

**AGATO 1D [AGAT1D], AGNET 1D [AGNE1D]  
BALIP 1D [BALI1D], RIRAN 1D [RIRA1D]  
ARRIVALS  
(RWY 14)**



**URML/MCX**  
UYTASH

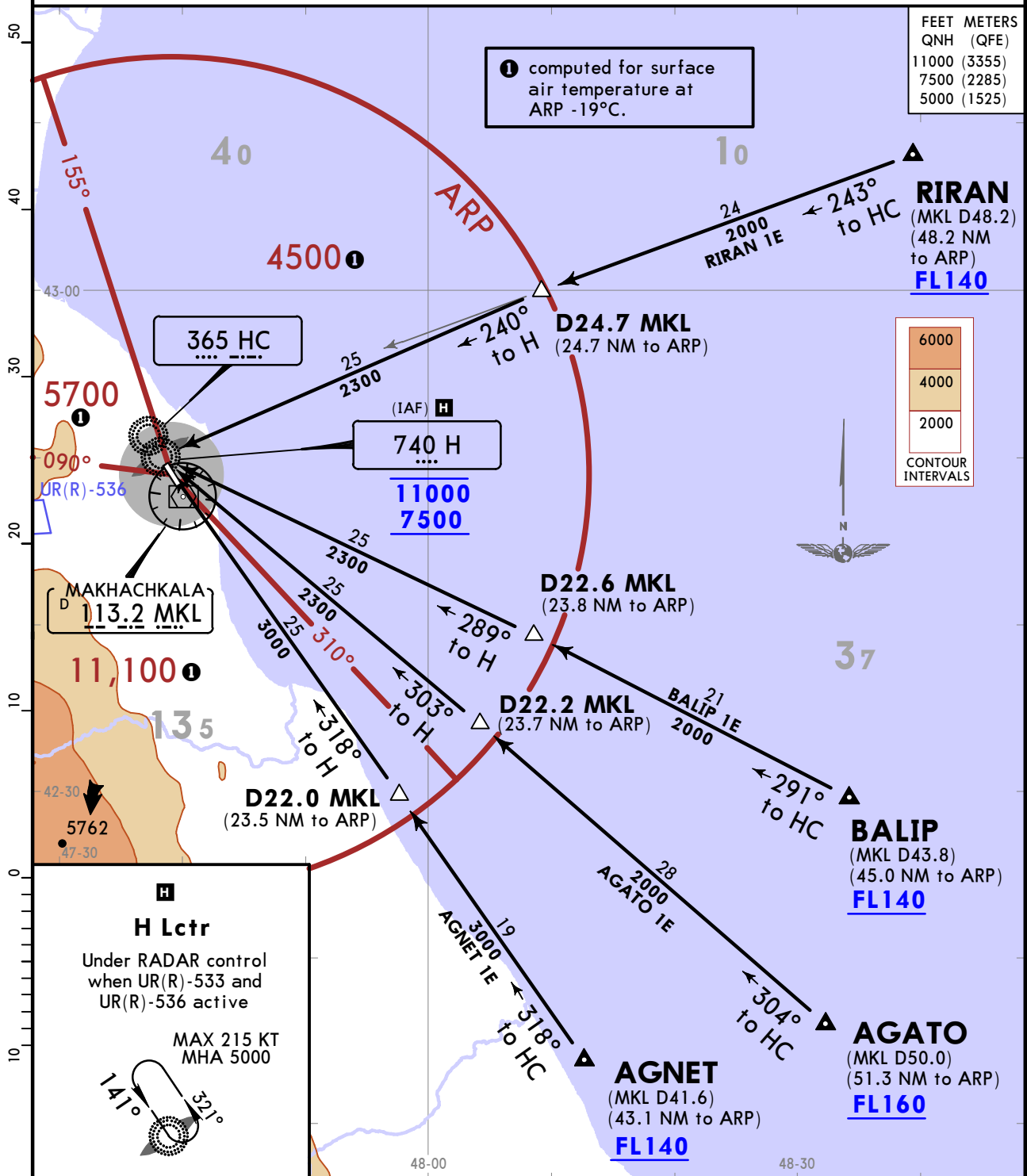
**JEPPESEN MAKHACHKALA, RUSSIA**

26 SEP 25 **10-2K** Eff 2 Oct

**STAR**

<p>ATIS <b>125.475</b> (Russian 124.8)</p>	<p>Alt Set: hPa (MM on request) Trans level: FL130 FL140 when pressure is less than 1013 hPa (760mm) FL150 when pressure is less than 977 hPa (733mm)</p>
<p>Apt Elev <b>16</b></p>	<ol style="list-style-type: none"> <li>DME or RADAR control required.</li> <li>If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.</li> <li>Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point.</li> <li>In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.</li> </ol>

**AGATO 1E [AGAT1E], AGNET 1E [AGNE1E]  
BALIP 1E [BALI1E], RIRAN 1E [RIRA1E]  
ARRIVALS  
(RWY 14)**

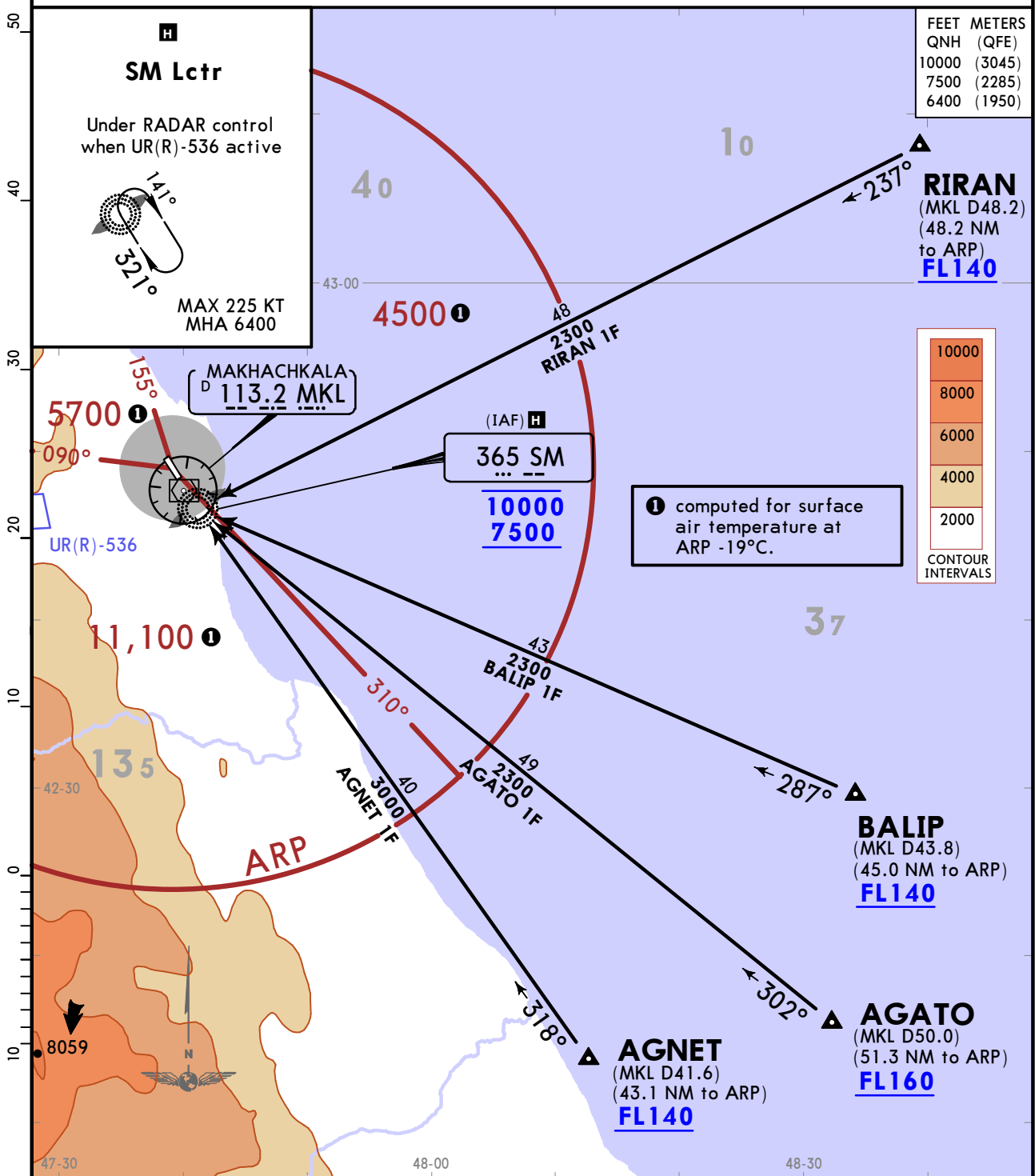


**URML/MCX**  
**UYTASH**

**JEPPESEN MAKHACHKALA, RUSSIA**  
26 SEP 25 **10-2L** **Eff 2 Oct** **STAR**

ATIS <b>125.475</b> (Russian 124.8)	Alt Set: hPa (MM on request) Trans level: FL130 FL140 when pressure is less than 1013 hPa (760mm) FL150 when pressure is less than 977 hPa (733mm)
Apt Elev <b>16</b>	1. DME or RADAR control required 2. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring. 3. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point. 4. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.

**AGATO 1F [AGAT1F], AGNET 1F [AGNE1F]  
BALIP 1F [BALI1F], RIRAN 1F [RIRA1F]**  
**ARRIVALS**  
**(RWY 32)**



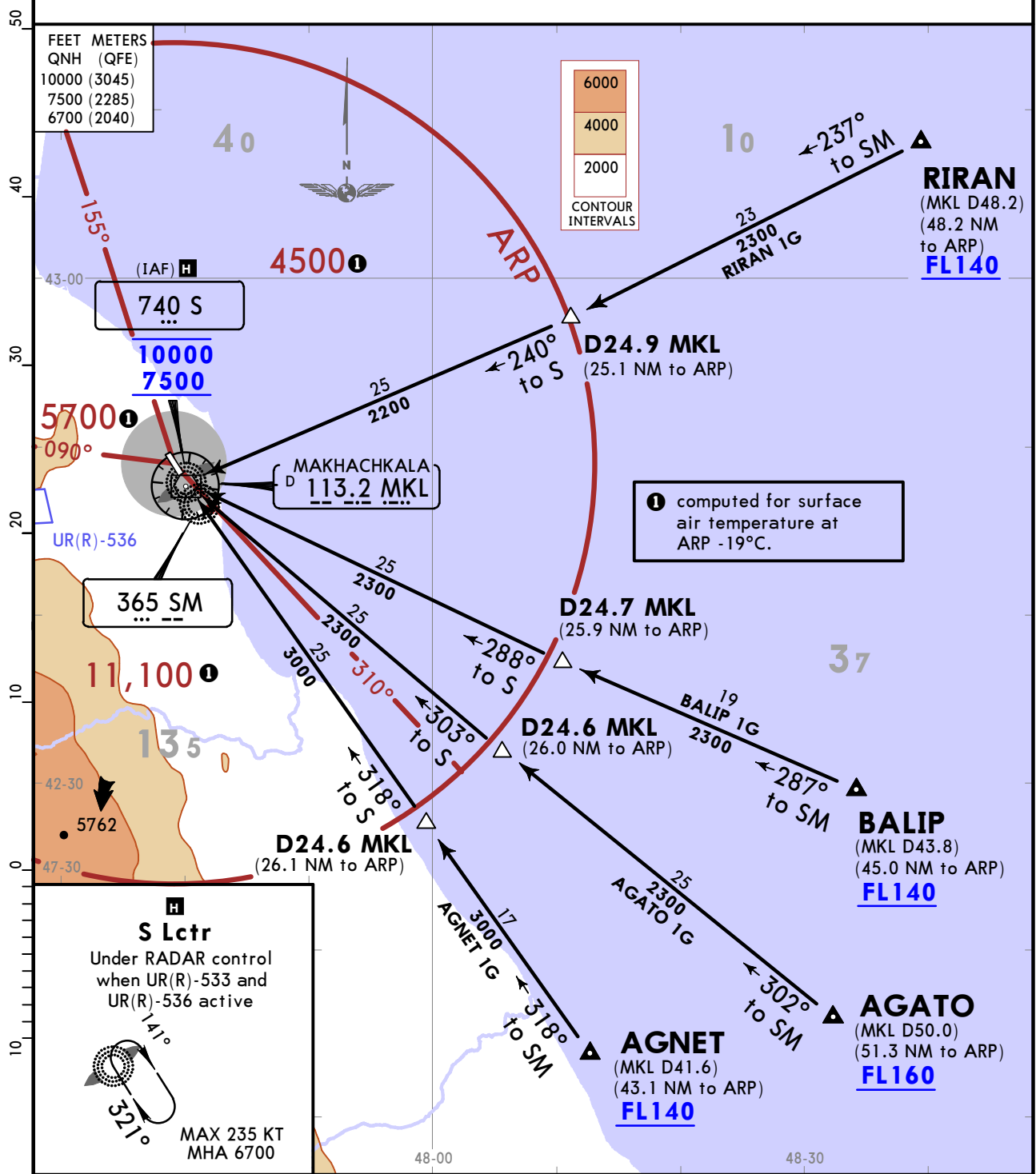
**URML/MCX**  
UYTASH

**JEPPESEN**  
17 OCT 25 (10-2M)

**MAKHACHKALA, RUSSIA**  
**STAR**

ATIS <b>125.475</b> (Russian 124.8)	Alt Set: hPa (MM on request) Trans level: FL130 FL140 when pressure is less than 1013 hPa (760mm) FL150 when pressure is less than 977 hPa (733mm)
Apt Elev <b>16</b>	1. DME or RADAR required. 2. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring. 3. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point. 4. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.

**AGATO 1G [AGAT1G], AGNET 1G [AGNE1G]  
BALIP 1G [BALI1G], RIRAN 1G [RIRA1G]  
ARRIVALS  
(RWY 32)**



CHANGES: Holding speed.

# URML/MCX UYTASH

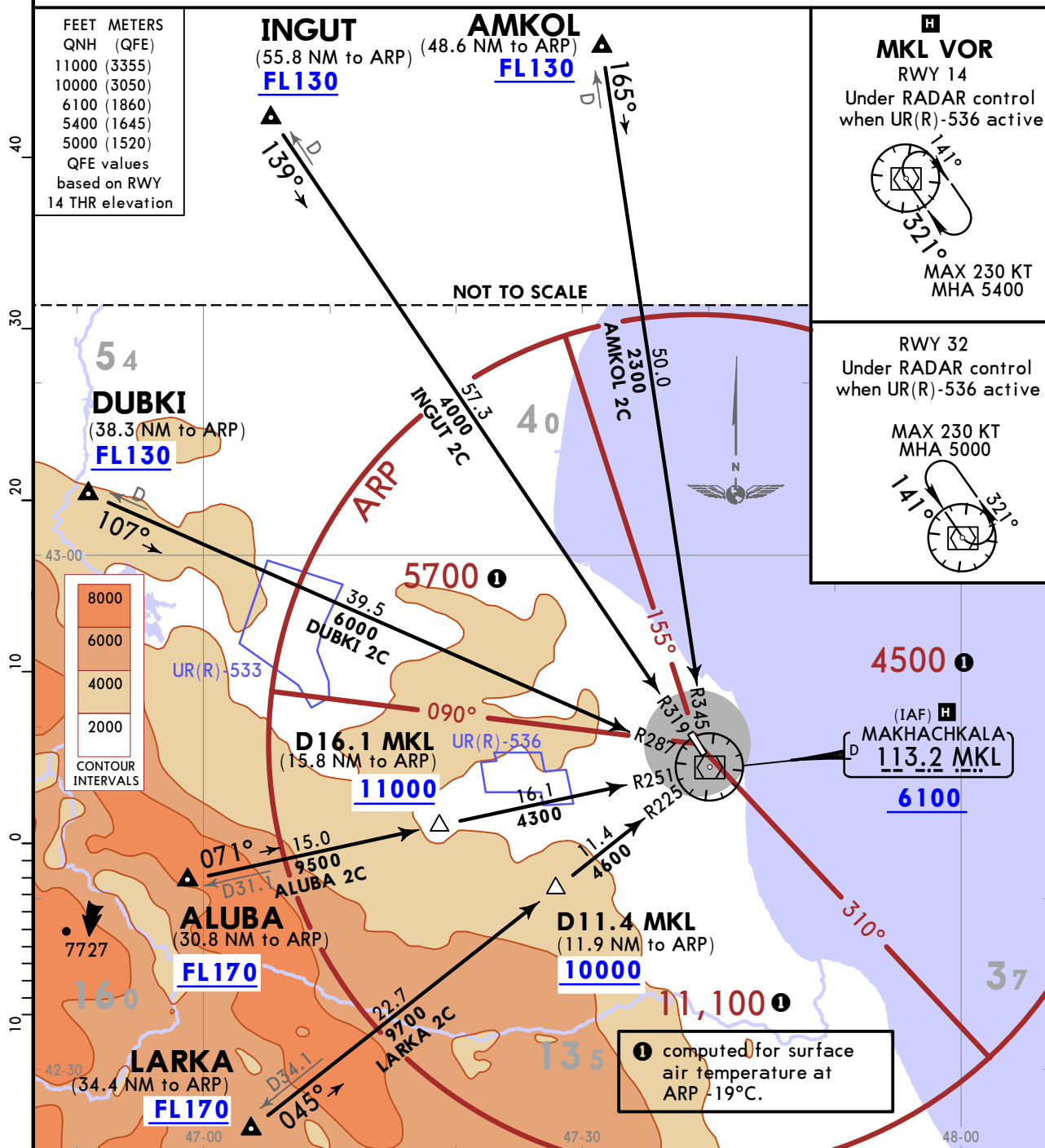
**JEPPESSEN**  
17 OCT 25 (10-2N)

**MAKHACHKALA, RUSSIA**  
**STAR**

ATIS <b>125.475</b> (Russian 124.8)	Alt Set: hPa (MM on request) Trans level: FL130 FL140 when pressure is less than 1013 hPa (760mm) FL150 when pressure is less than 977 hPa (733mm)
Apt Elev <b>16</b>	1. DME required. 2. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring. 3. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point. 4. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.

<b>ALUBA 2C [ALUB2C]</b> <b>LARKA 2C [LARK2C]</b> ONLY AVAILABLE WHEN UR(R)-536 NOT ACTIVE <b>AMKOL 2C [AMKO2C]</b> <b>INGUT 2C [INGU2C]</b>	<b>DUBKI 2C [DUBK2C]</b> BY ATC ONLY AVAILABLE WHEN UR(R)-533 & UR(R)-536 NOT ACTIVE
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**ARRIVALS (ALL RWYS)**



**MAKHACHKALA, RUSSIA**  
**STAR**

**URML/MCX**  
**UYTASH**

**JEPPesen**  
26 SEP 25  
Eff 2 Oct  
10-2P

ATIS (Russian) 125.475  
Apt Elev 16

Alt Set: hPa (MM on request)  
Trans level: FL130  
FL140 when pressure is less than 1013 hPa (760mm)  
FL150 when pressure is less than 977 hPa (733mm)

1. DME or RADAR control required.
2. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.
3. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point.
4. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.

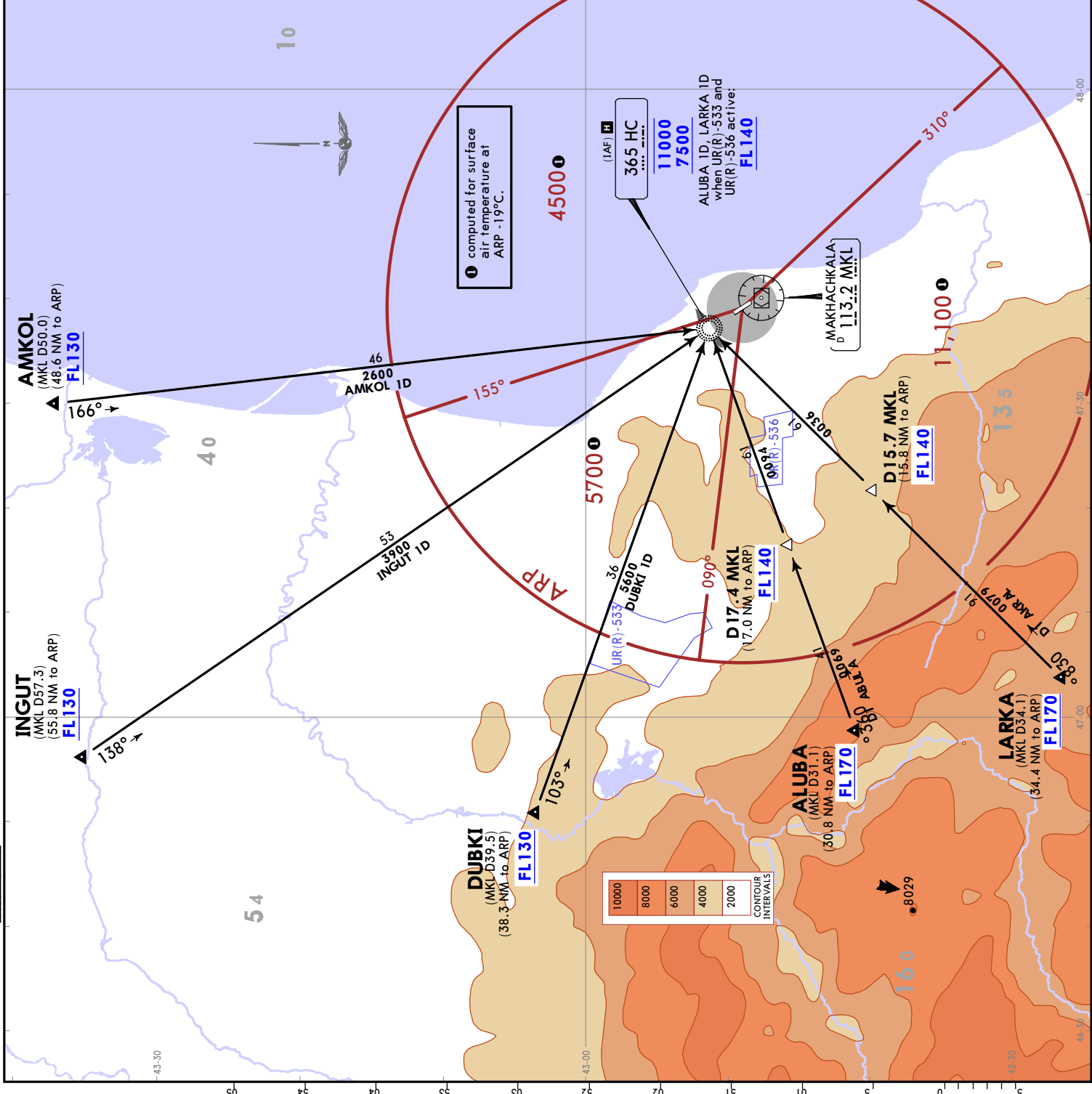
**ALUBA 1D [ALUB1D]**  
**AMKOL 1D [AMK01D]**  
**INGUT 1D [INGU1D]**  
**LARKA 1D [LARK1D]**

**DUBKI 1D [DUBK1D]**  
BY ATC  
ONLY AVAILABLE WHEN UR(R)-533 NOT ACTIVE

**ARRIVALS (RWY 14)**

**HC Lctr**  
Under RADAR control when UR(R)-533 and UR(R)-536 active  
MAX 215 KT  
MHA 5000

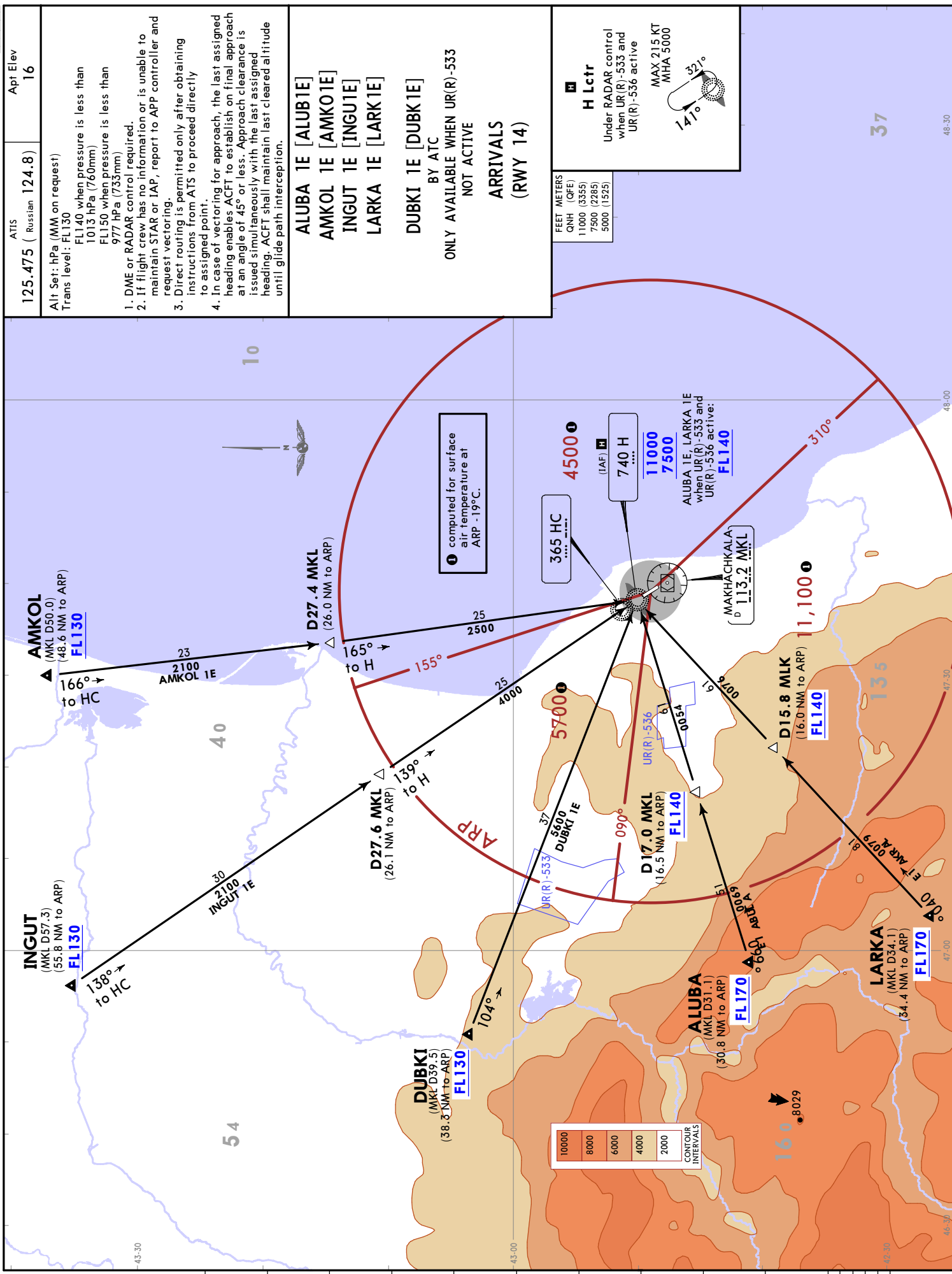
FEET METERS  
GNH (QFE) 11000 (3355)  
7500 (2285)  
5000 (1525)



**MAKHACHKALA, RUSSIA**  
**STAR**

**JEPPESEN**  
 26 SEP 25 (10-2Q) Eff 2 Oct

**URML/MCX**  
 UYTASH



**MAKHACHKALA, RUSSIA**  
**STAR**

**URML/MCX**  
**UYTASH**  
17 OCT 25 (10-25)  
**JEPPESEN**

ATIS (Russian 124.8)	Apt Elev 16
125.475	
Alt Set: hPa (MM on request)	
Trans level: FL130	
FL140 when pressure is less than 1013 hPa (760mm)	
FL150 when pressure is less than 977 hPa (733mm)	
1. DME or RADAR control required.	
2. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.	
3. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point.	
4. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.	

**ALUBA 1F [ALUB1F]**  
**AMKOL 1F [AMKO1F]**  
**INGUT 1F [INGU1F]**  
**LARKA 1F [LARK1F]**  
**DUBKI 1F [DUBK1F]**

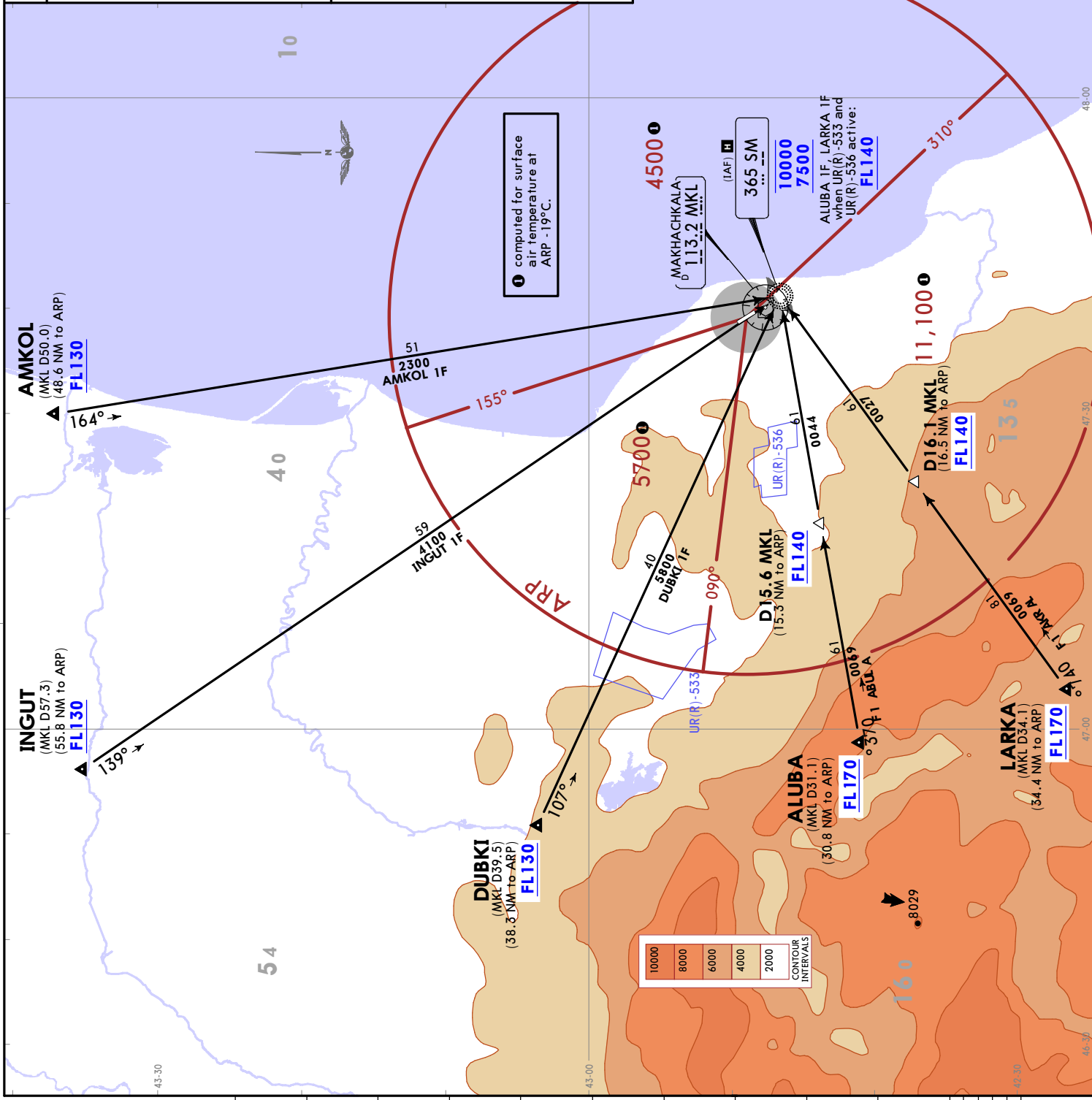
BY ATC  
ONLY AVAILABLE WHEN UR(R)-533 NOT ACTIVE

**ARRIVALS (RWY 32)**

**SM Lctr**  
Under RADAR control when UR(R)-536 active

FEET METERS  
GNH (QFE)  
10000 (3045)  
7500 (2285)  
6400 (1950)

MAX 225 KT  
MHA 6400





# URML/MCX UYTASH

ATIS  
**125.475**  
(Russian 124.8)

Alt Set: hPa (MM on request)  
Trans level: FL130  
FL140 when pressure is less than 1013 hPa (760mm)  
FL150 when pressure is less than 977 hPa (733mm)

Apt Elev  
**16**

1. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.
2. Direct routing is permitted only after obtaining instructions from ATS to proceed directly to assigned point.
3. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less. Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.

**BUIKS 1E [BUIK1E]**  
ONLY AVAILABE WHEN UR(R)-533 AND  
UR(R)-536 NOT ACTIVE

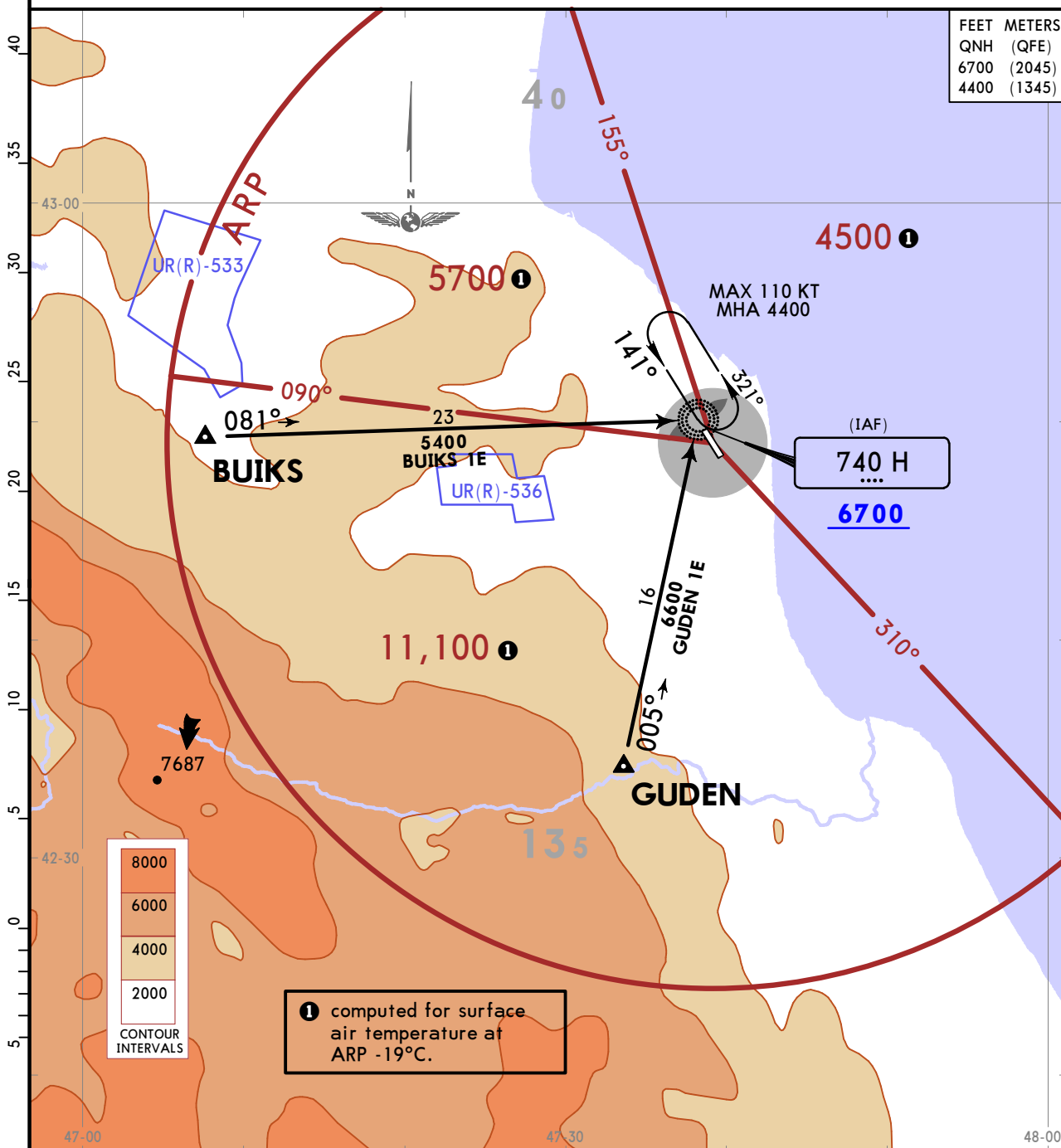
**GUDEN 1E [GUDE1E]**

**ARRIVALS  
(RWY 14)**

**CAT A**

UNDER RADAR CONTROL WHEN UR(R)-536 ACTIVE

FEET	METERS
QNH (QFE)	
6700	(2045)
4400	(1345)



# URML/MCX UYTASH

ATIS  
**125.475**  
(Russian 124.8)

---

Apt Elev  
**16**

Alt Set: hPa (MM on request)  
 Trans level: FL130  
 FL140 when pressure is less than 1013 hPa (760mm)  
 FL150 when pressure is less than 977 hPa (733mm)

1. If flight crew has no information or is unable to maintain STAR or IAP, report to APP controller and request vectoring.
2. Direct routing is only permitted only after obtaining instructions from ATS to proceed directly to assigned point.
3. In case of vectoring for approach, the last assigned heading enables ACFT to establish on final approach at an angle of 45° or less.  
 Approach clearance is issued simultaneously with the last assigned heading. ACFT shall maintain last cleared altitude until glide path interception.

**BUIKS 1G [BUIK1G]**  
 ONLY AVAILABE WHEN UR(R)-533 AND  
 UR(R)-536 NOT ACTIVE

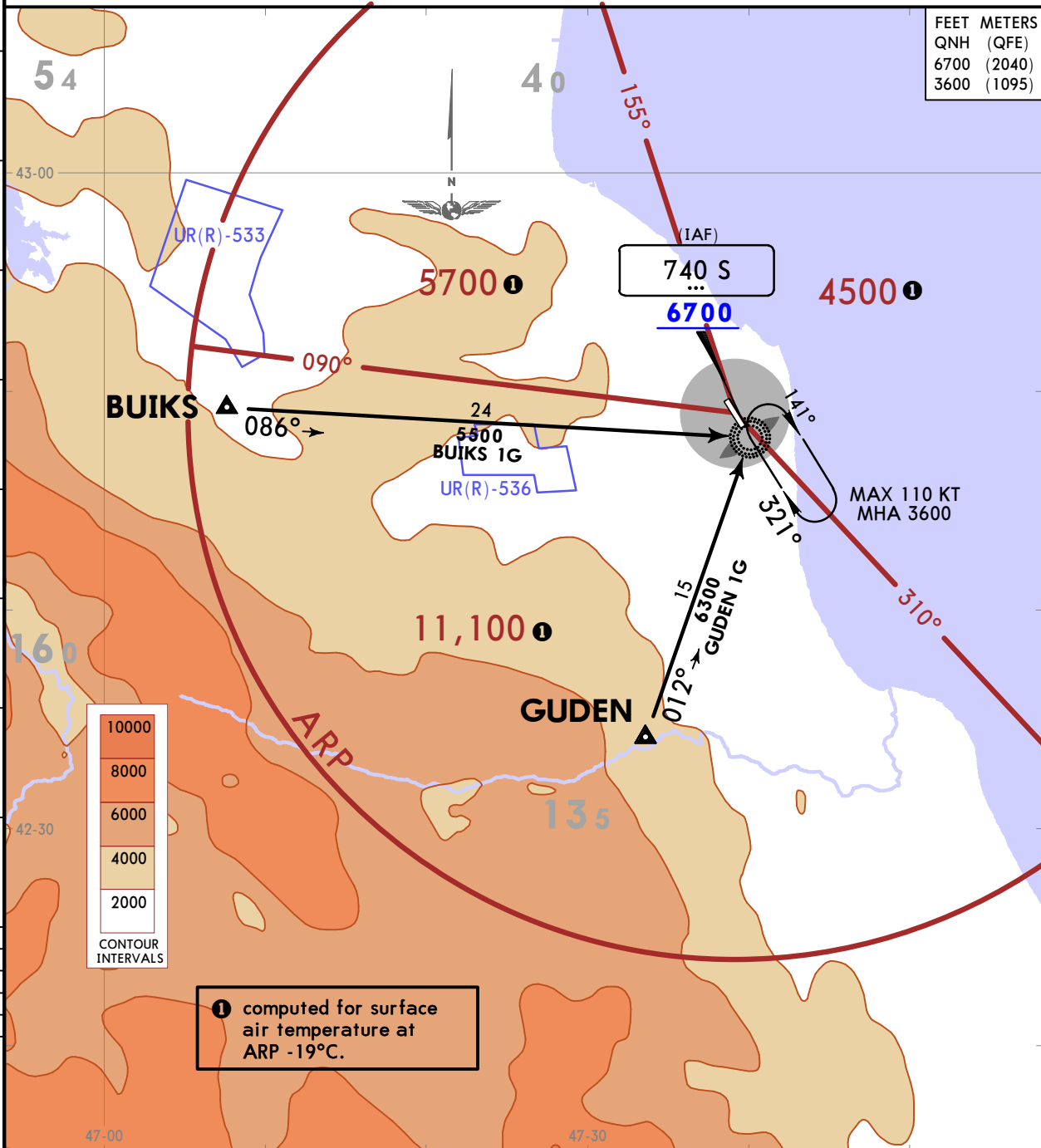
**GUDEN 1G [GUDE1G]**

**ARRIVALS  
(RWY 32)**

**CAT A**

UNDER RADAR CONTROL WHEN UR(R)-536 ACTIVE

50  
45  
40  
35  
30  
25  
20  
15  
10  
5  
0  
-5



FEET	METERS
QNH (QFE)	
6700	(2040)
3600	(1095)

CONTOUR INTERVALS
10000
8000
6000
4000
2000

**①** computed for surface air temperature at ARP -19°C.

# MAKHACHKALA, RUSSIA

**RNAV SID**

MAKHACHKALA Radar  
121.3

Trans alt: 12000 QNH (QFE on request)

RNAV 1 GNS required

1. After take-off, contact MAKHACHKALA-Radar at 121.3, unless otherwise instructed.  
2. Radar vectoring and/or 'direct to' instructions can be applied.

**AGATO 1N [AGAT1N]**  
**AGNET 1N [AGNE1N]**  
**BALIP 1N [BALI1N]**  
**RIRAN 1N [RIRA1N]**  
**RNAV DEPARTURES (RWY 14)**

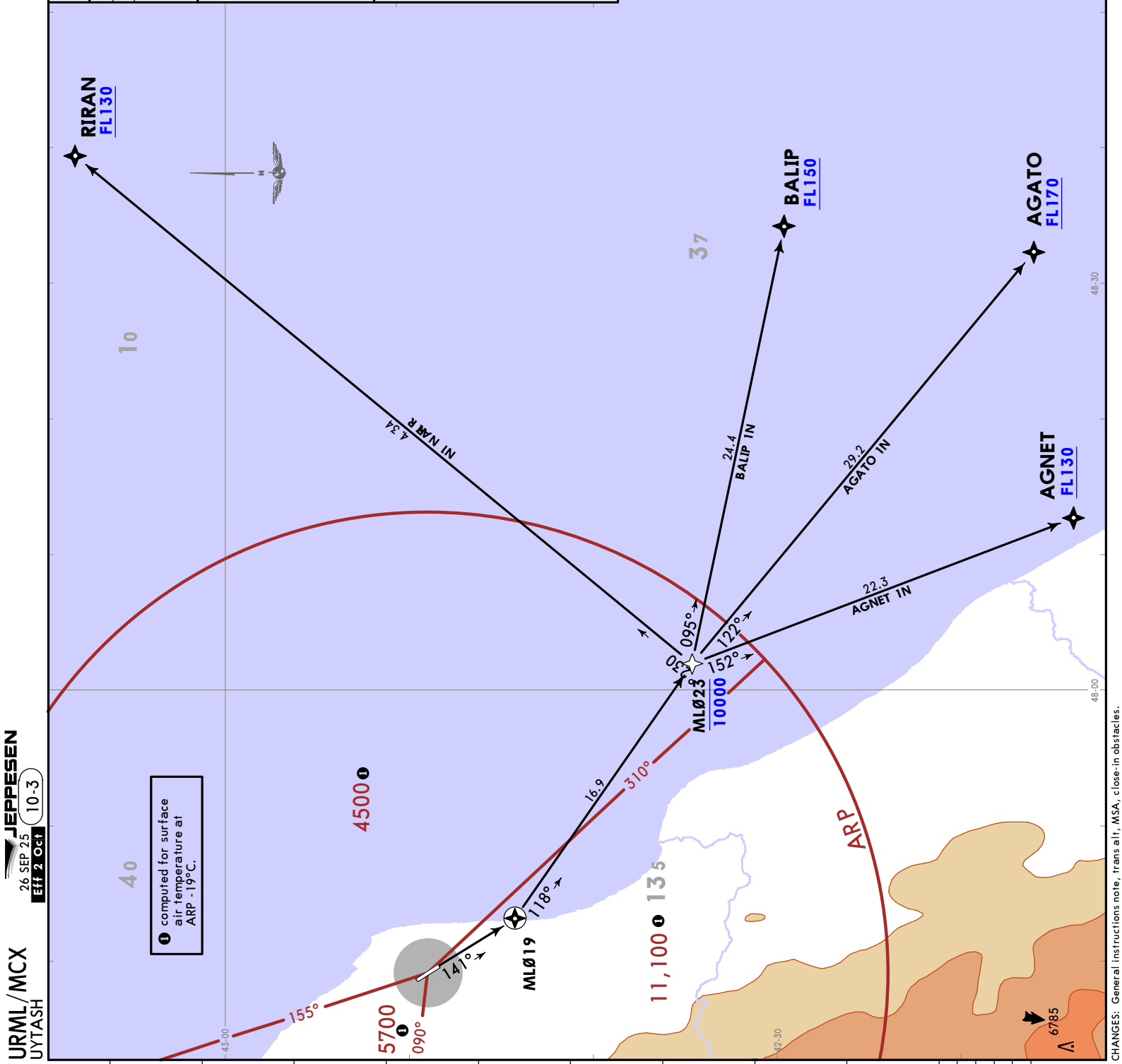
**Close-in Obstacles**  
 Altitude 54 - 0.2 NM from DER, located to the RIGHT of take-off heading.  
 These SIDs require minimum climb gradients of

**AGATO 1N:** 5.4% up to FL170, due to airspace structure.  
**AGNET 1N:** 4.8% up to FL130, due to airspace structure.  
**BALIP 1N:** 5.4% up to FL150, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
4.8% V/V (fpm)	365	486	729	972	1215	1458
5.4% V/V (fpm)	410	547	820	1094	1367	1641

FEET METERS

QNH (QFE)	700 (211)
10000 (3050)	
12000 (3660)	



**URML/MCX**  
 UYTASH

**JEPPESEN**  
 26 SEP 25  
 Eff 2 Oct 10-3

MAKHACHKALA Radar 121.3	Apt Elev 16
Trans alt: 12000 QNH (QFE on request)	
RNAV 1 GNS required	
1. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.	
2. Radar vectoring and/or 'direct to' instructions can be applied.	

**ALUBA 1N [ALUB 1N]  
LARKA 1N [LARK 1N]  
RNAV DEPARTURES  
(RWY 14)**

**Close-in Obstacles**  
Altitude 54 - 0.2 NM from DER, located to the RIGHT of take-off heading.

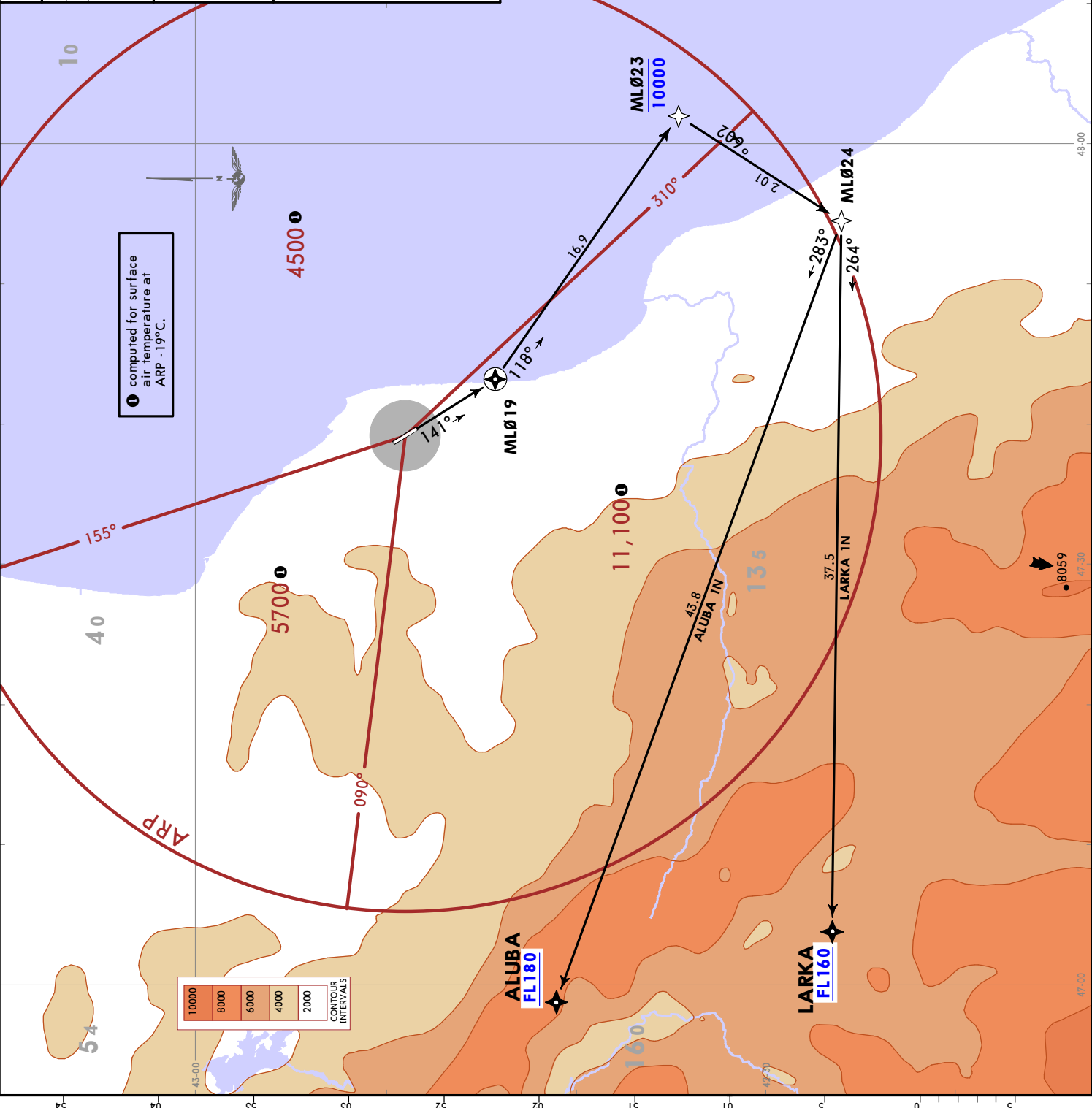
These SIDs require minimum climb gradients of

**ALUBA 1N:** 4.0% up to FL180, due to airspace structure.

**LARKA 1N:** 3.9% up to FL160, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
3.9% V/V (fpm)	296	395	592	790	987	1185
4.0% V/V (fpm)	304	405	608	810	1013	1215

FEET METERS	
QNH (QFE)	700 (211)
	10000 (3050)
	12000 (3660)

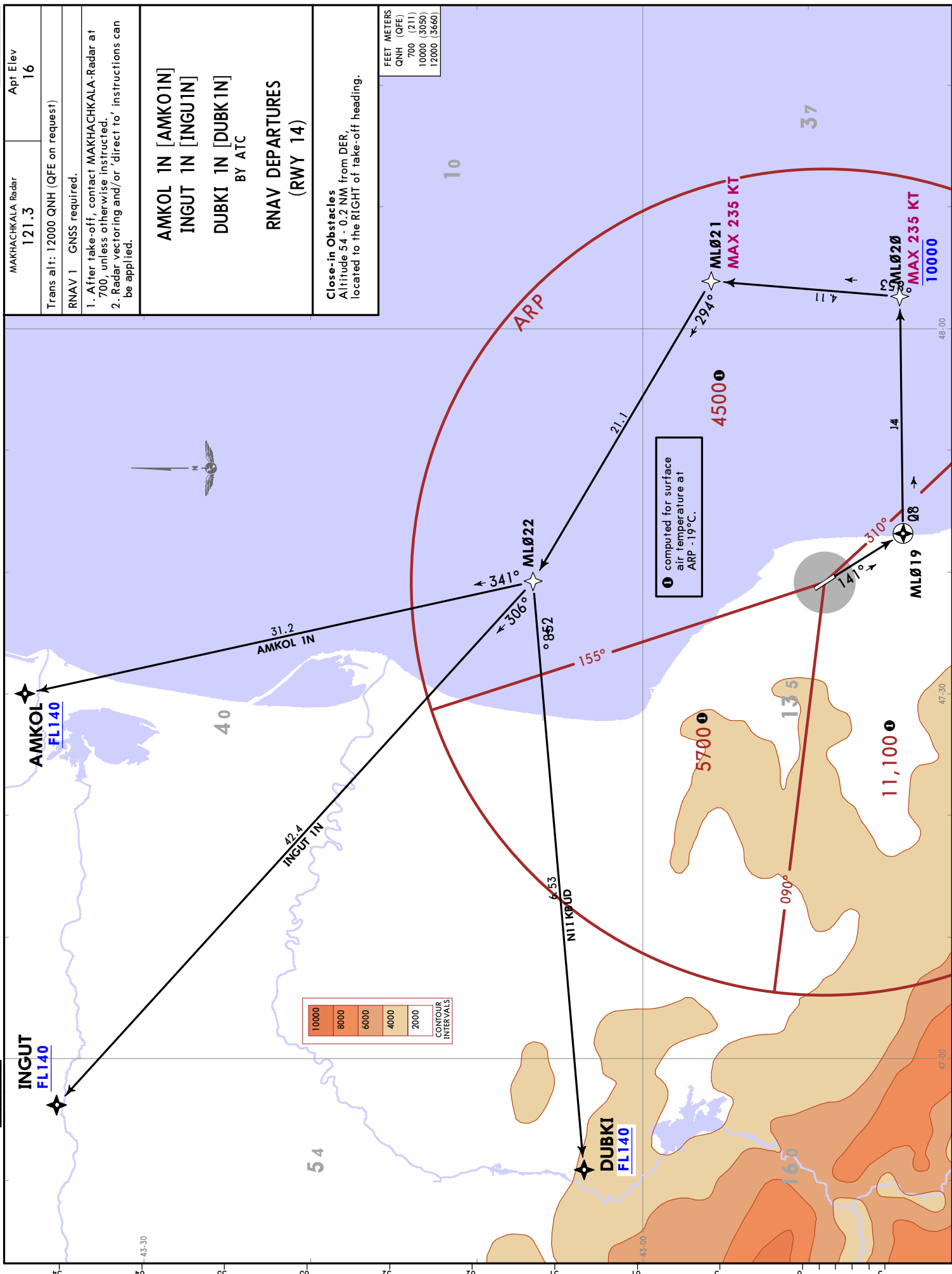


**MAKHACHKALA, RUSSIA**  
**RNAV SID**

MAKHACHKALA Radar 121.3	Apt Elev 16
Trans alt: 12000 QNH (QFE on request)	
RNAV 1 GNS required.	
1. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.	
2. Radar vectoring and/or 'direct to' instructions can be applied.	
<b>AMKOL 1N [AMKO1N]</b> <b>INGUT 1N [INGU1N]</b> <b>DUBKI 1N [DUBK1N]</b> BY ATC	
<b>RNAV DEPARTURES</b> <b>(RWY 14)</b>	
<b>Close-in Obstacles</b> Altitude 54 - 0.2 NM from DER, located to the RIGHT of take-off heading.	

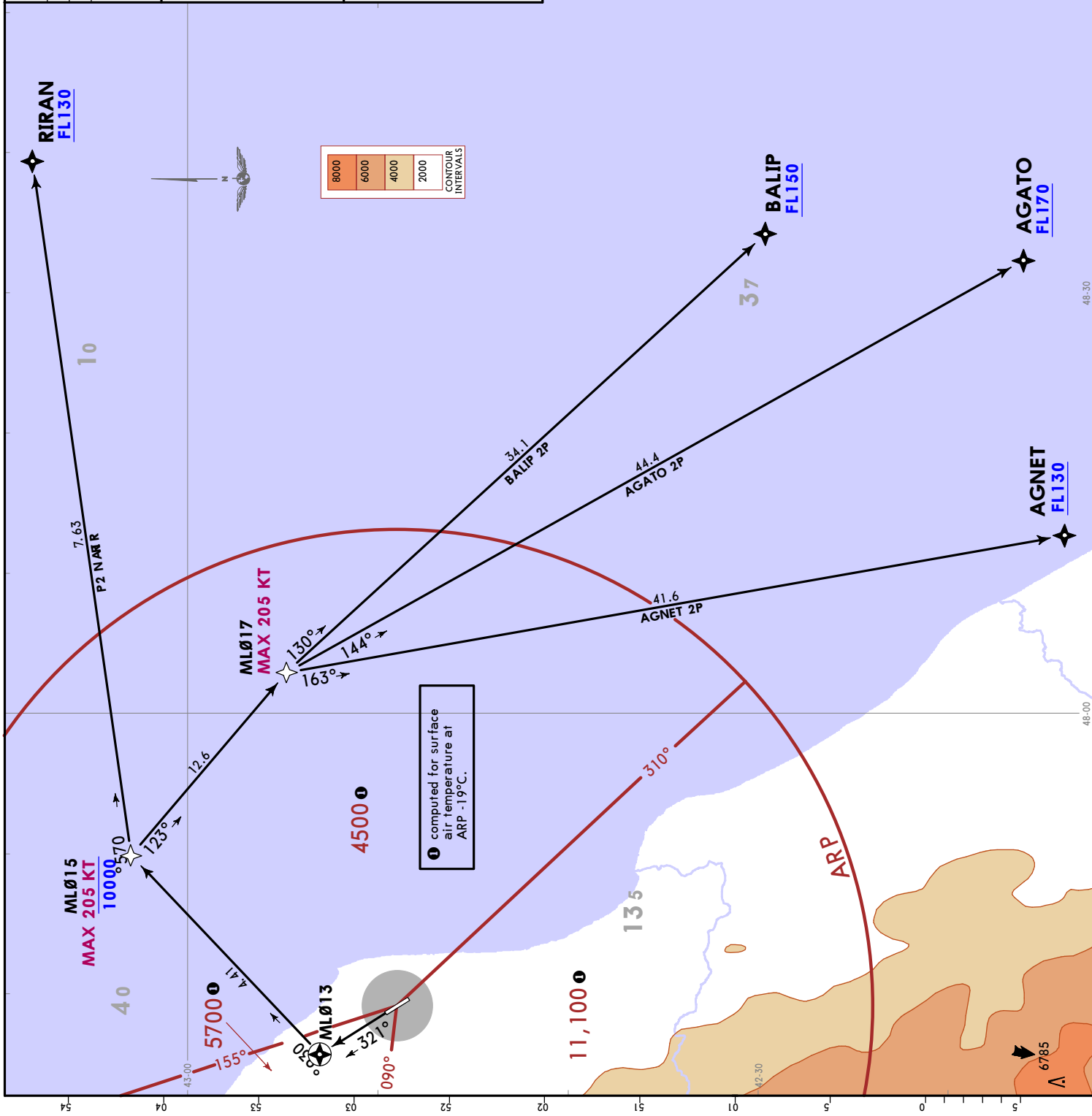
FEET METERS	
QNH (QFE)	
700 (211)	
10000 (3050)	
12000 (3660)	

**URML/MCX**  
**UYTASH**  
 JEPPESEN  
 26 SEP 25  
 Eff 2 Oct 10-3B



10000	8000	6000	4000	2000
CONTOUR INTERVALS				

MAKHACHKALA Radar 121.3	Apt Elev 16																													
Trans alt: 12000 QNH (QFE on request)																														
RNAV 1 GNS required																														
1. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed. 2. Radar vectoring and/or 'direct to' instructions can be applied.																														
<b>AGATO 2P [AGAT2P]</b> <b>AGNET 2P [AGNE2P]</b> <b>BALIP 2P [BALI2P]</b> <b>RIRAN 2P [RIRA2P]</b> <b>RNAV DEPARTURES (RWY 32)</b>																														
These SIDs require minimum climb gradients of <b>AGATO 2P:</b> 3.7% up to FL170, due to airspace structure. <b>BALIP 2P:</b> 3.8% up to FL150, due to airspace structure. <b>RIRAN 2P:</b> 3.8% up to FL130, due to airspace structure.																														
<table border="1"> <tr> <th>Gnd speed-KT</th> <td>75</td> <td>100</td> <td>150</td> <td>200</td> <td>250</td> <td>300</td> </tr> <tr> <th>3.7% V/V (fpm)</th> <td>281</td> <td>375</td> <td>562</td> <td>749</td> <td>937</td> <td>1124</td> </tr> <tr> <th>3.8% V/V (fpm)</th> <td>289</td> <td>385</td> <td>577</td> <td>770</td> <td>962</td> <td>1154</td> </tr> </table>	Gnd speed-KT	75	100	150	200	250	300	3.7% V/V (fpm)	281	375	562	749	937	1124	3.8% V/V (fpm)	289	385	577	770	962	1154	<table border="1"> <tr> <th>FEET METERS</th> <td></td> </tr> <tr> <th>QNH (QFE)</th> <td>700 (207)</td> </tr> <tr> <td>10000 (3045)</td> <td></td> </tr> <tr> <td>12000 (3660)</td> <td></td> </tr> </table>	FEET METERS		QNH (QFE)	700 (207)	10000 (3045)		12000 (3660)	
Gnd speed-KT	75	100	150	200	250	300																								
3.7% V/V (fpm)	281	375	562	749	937	1124																								
3.8% V/V (fpm)	289	385	577	770	962	1154																								
FEET METERS																														
QNH (QFE)	700 (207)																													
10000 (3045)																														
12000 (3660)																														



# MAKHACHKALA, RUSSIA

## RNAV SID

MAKHACHKALA Radar	Apt Elev
121.3	16
Trans alt: 12000 QNH (QFE on request)	
RNAV 1 GNSS required	
1. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.	
2. Radar vectoring and/or 'direct to' instructions can be applied.	

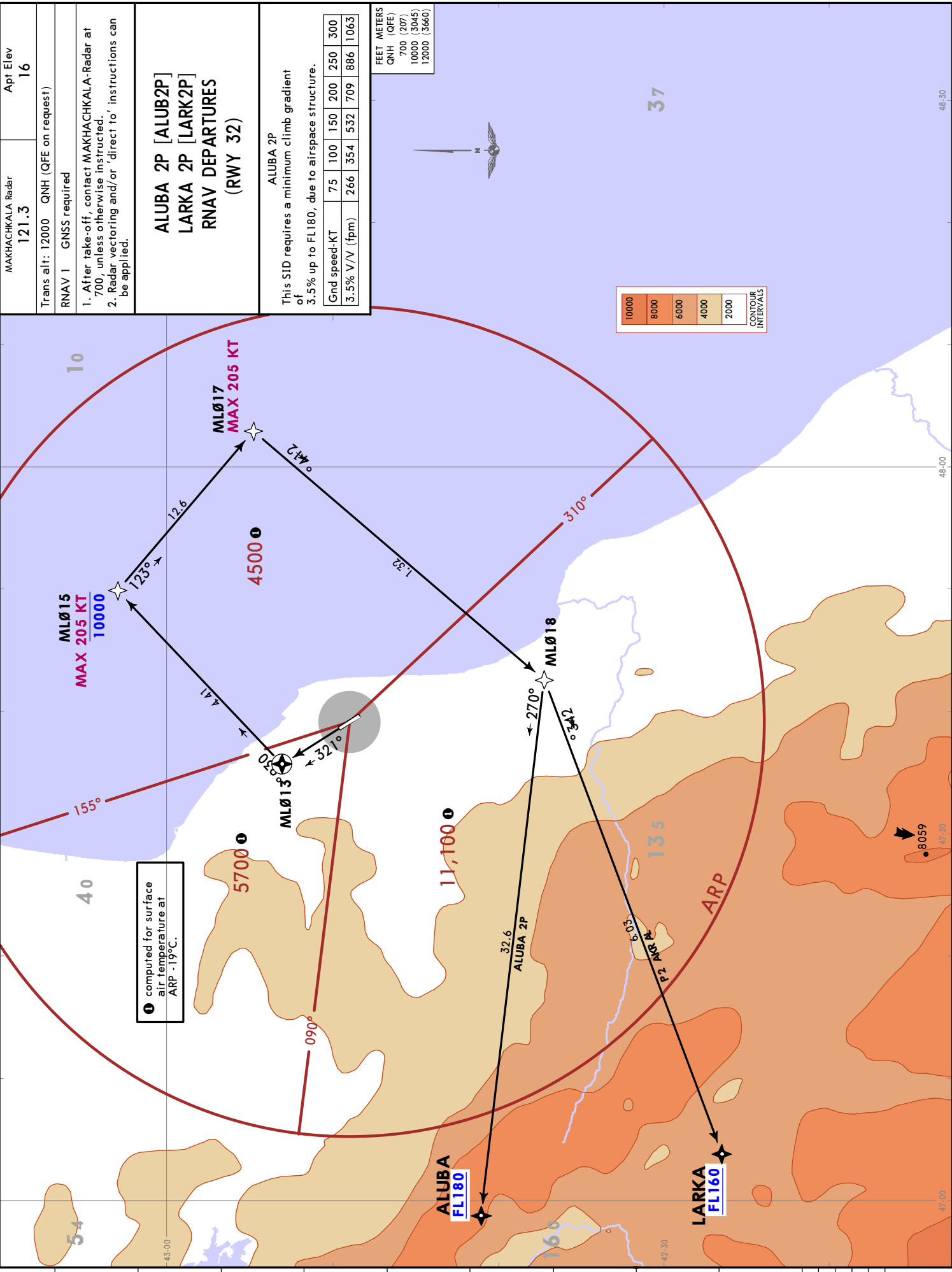
**ALUBA 2P [ALUB2P]  
LARKA 2P [LARK2P]  
RNAV DEPARTURES  
(RWY 32)**

ALUBA 2P  
This SID requires a minimum climb gradient of 3.5% up to FL180, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
3.5% V/V (fpm)	266	354	532	709	886	1063

FEET METERS

QNH (QFE)	700 (207)
	10000 (3045)
	12000 (3660)



MAKHACHKALA Radar  
121.3

Apt Elev  
16

Trans alt: 12000 QNH (QFE on request)

RNAV 1 GNSS required.

1. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.  
2. Radar vectoring and/or 'direct to' instructions can be applied.

**AMKOL 2P [AMKO2P]  
INGUT 2P [INGU2P]  
DUBKI 2P [DUBK2P]  
BY ATC**

**RNAV DEPARTURES  
(RWY 32)**

These SIDs require minimum climb gradients of

**AMKOL 2P:** 4.8% up to FL140, due to airspace structure.

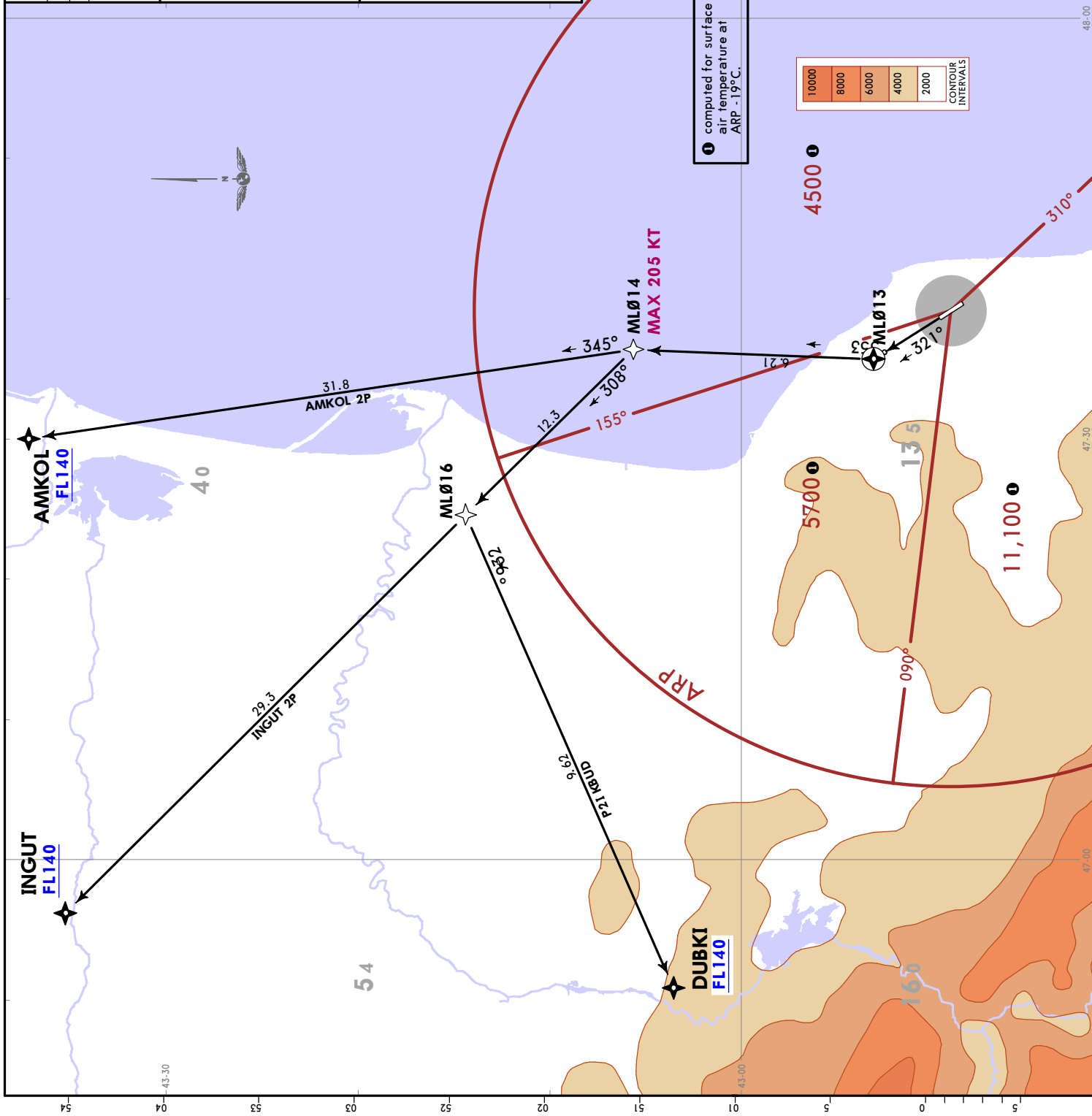
**DUBKI 2P:** 4.2% up to FL140, due to airspace structure.

**INGUT 2P:** 4.0% up to FL140, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
4.0% V/V (fpm)	304	405	608	810	1013	1215
4.2% V/V (fpm)	319	425	638	851	1063	1276
4.8% V/V (fpm)	365	486	729	972	1215	1458

FEET METERS

QNH (QFE)	700 (207)
	10000 (3045)
	12000 (3660)



**MAKHACHKALA, RUSSIA**

**URML/MCX**  
UYTASH

**JEPPESSEN**  
12 DEC 25 (10-3F)

**SID**

MAKHACHKALA Radar  
121.3  
Apt Elev  
16

Trans alt: 12000 QNH (QFE on request)  
1. DME or RADAR control required.  
2. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.  
3. Radar vectoring and/or 'direct to' instructions can be applied.  
4. Turn before DER is prohibited.

**AGATO 2A [AGAT2A]**  
**AGNET 2A [AGNE2A]**  
**BALIP 2A [BALI2A]**  
**RIRAN 2A [RIRA2A]**

**DEPARTURES**  
(RWY 14)

**UNDER RADAR CONTROL WHEN UR(R)-533 ACTIVE**

FEET METERS	
QNH (QFE)	700 (211)
12000	(3660)

**Close-in Obstacles**  
Altitude 54 - 0.2 NM from DER, located to the RIGHT of take-off heading.

These SIDs require minimum climb gradients of

**AGATO 2A:** 5.4% up to FL170, due to airspace structure.

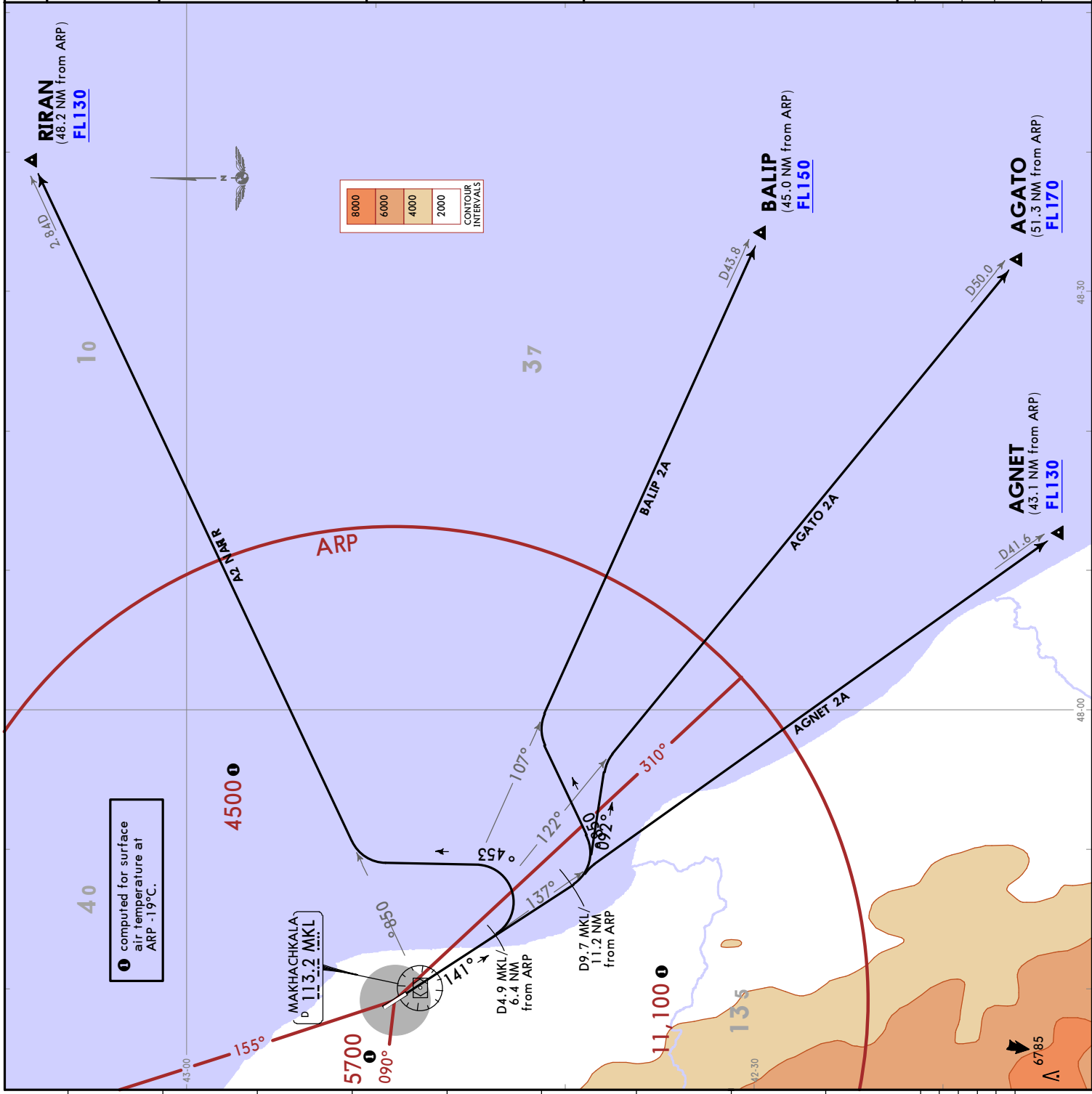
**AGNET 2A:** 5.1% up to FL130, due to airspace structure.

**BALIP 2A:** 5.1% up to FL150, due to airspace structure.

**RIRAN 2A:** 3.6% up to FL130, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
3.6% V/V (fpm)	273	365	547	729	911	1094
5.1% V/V (fpm)	387	516	775	1033	1291	1549
5.4% V/V (fpm)	410	547	820	1094	1367	1641

SID	ROUTING
<b>AGATO 2A</b>	Climb on 141° track to D9.7 MKL, turn LEFT, 092° track, intercept MKL R122 to AGATO.
<b>AGNET 2A</b>	Climb on 141° track to D9.7 MKL, intercept MKL R137 to AGNET.
<b>BALIP 2A</b>	Climb on 141° track to D9.7 MKL, turn LEFT, 058° track, intercept MKL R107 to BALIP.
<b>RIRAN 2A</b>	Climb on 141° track to D4.9 MKL, turn LEFT, 354° track, intercept MKL R058 to RIRAN.



**MAKHACHKALA, RUSSIA**

**JEPPESEN**  
12 DEC 25 (10-3G)

**URML/MCX**  
UYTASH

MAKHACHKALA Radar  
121.3  
Apt Elev  
16

Trans alt: 12000 QNH (QFE on request)  
1. DME or RADAR control required.  
2. After take-off, contact MAKHACHKALA Radar at 700, unless otherwise instructed.  
3. Radar vectoring and/or 'direct to' instructions can be applied.  
4. Turn before DER is prohibited.

**AGATO 2B [AGAT2B]**  
**AGNET 2B [AGNE2B]**  
**BALIP 2B [BALI2B]**  
**RIRAN 2B [RIRA2B]**  
**DEPARTURES**  
**(RWY 32)**  
**UNDER RADAR CONTROL WHEN UR(R)-533 ACTIVE**

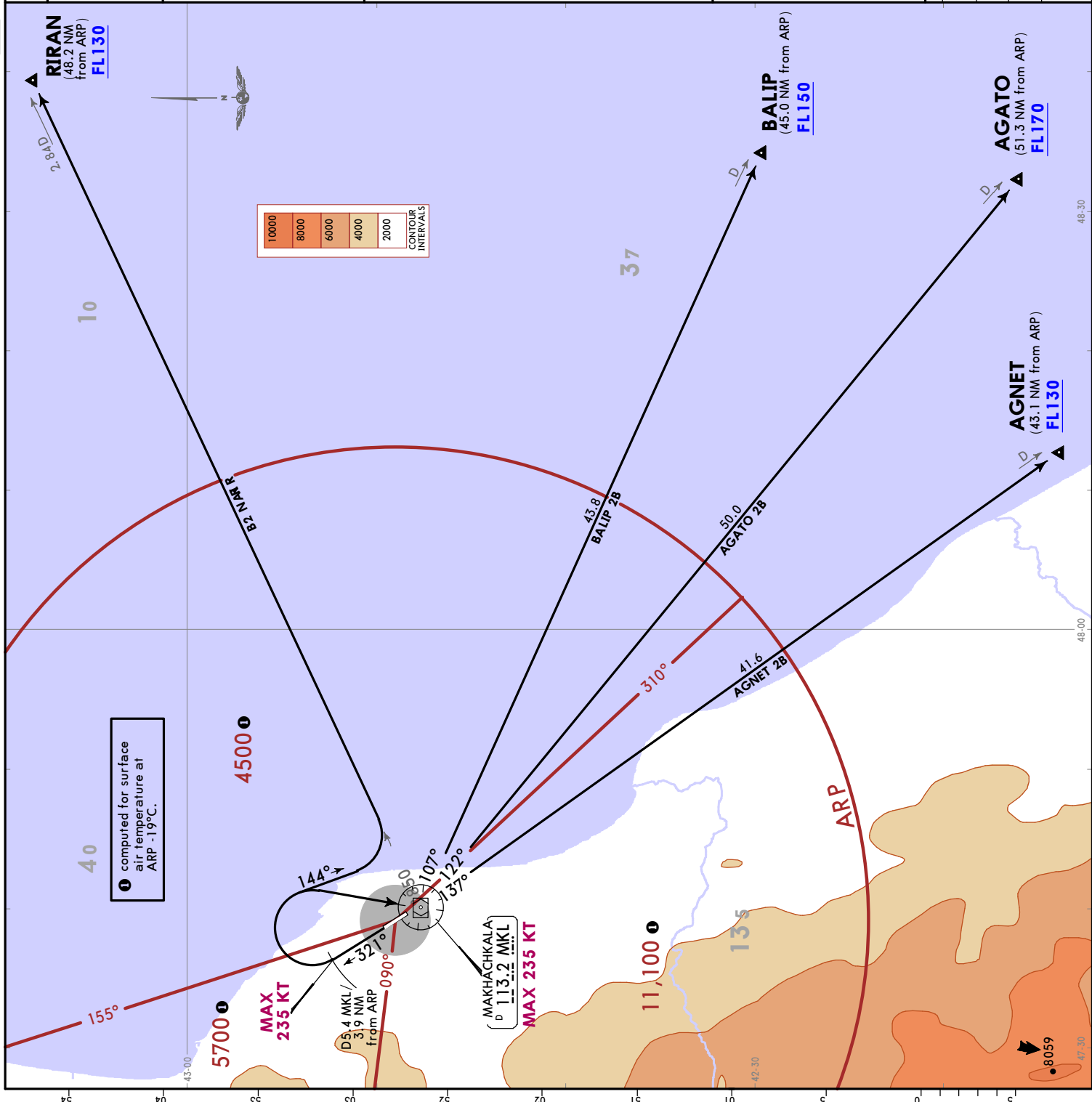
FEET METERS  
QNH (QFE)  
700 (207)  
12000 (3660)

These SIDs require minimum climb gradients of  
**AGATO 2B:** 3.8% up to FL170, due to airspace structure.  
**BALIP 2B:** 3.7% up to FL150, due to airspace structure.  
**RIRAN 2B:** 3.5% up to FL130, due to airspace structure.

Grnd speed-KT	75	100	150	200	250	300
3.5% V/V (fpm)	266	354	532	709	886	1063
3.7% V/V (fpm)	281	375	562	749	937	1124
3.8% V/V (fpm)	289	385	577	770	962	1154

**SID ROUTING**

**AGATO 2B** Climb on 321° track to D5.4 MKL, turn RIGHT to MKL, MKL R122 to AGATO.  
**AGNET 2B** Climb on 321° track to D5.4 MKL, turn RIGHT to MKL, MKL R137 to AGNET.  
**BALIP 2B** Climb on 321° track to D5.4 MKL, turn RIGHT to MKL, MKL R107 to BALIP.  
**RIRAN 2B** Climb on 321° track to D5.4 MKL, turn RIGHT, 144° track, intercept MKL R058 to RIRAN.





**JEPPesen**  
 26 SEP 25 (10-3J) Eff 2 Oct  
**MAKHACHKALA, RUSSIA**  
**SID**

**URML/MCX**  
 UYTASH

MAKHACHKALA Radar  
 121.3  
 Apt Elev  
 16

Trans alt: 12000 QNH (QFE on request)  
 1. DME or RADAR control required.  
 2. After take-off, contact MAKHACHKALA Radar at 700, unless otherwise instructed.  
 3. Radar vectoring and/or 'direct to' instructions can be applied.  
 4. Turn before DER is prohibited.

**AGATO 2M [AGAT2M]**  
**AGNET 2M [AGNE2M]**  
**BALIP 2M [BALI2M]**  
**RIRAN 2M [RIRA2M]**  
**DEPARTURES**  
**(RWY 32)**

FEET METERS	
QNH (QFE)	700 (207)
	800 (245)
	1000 (305)
	2200 (670)
	12000 (3660)

These SIDs require minimum climb gradients of

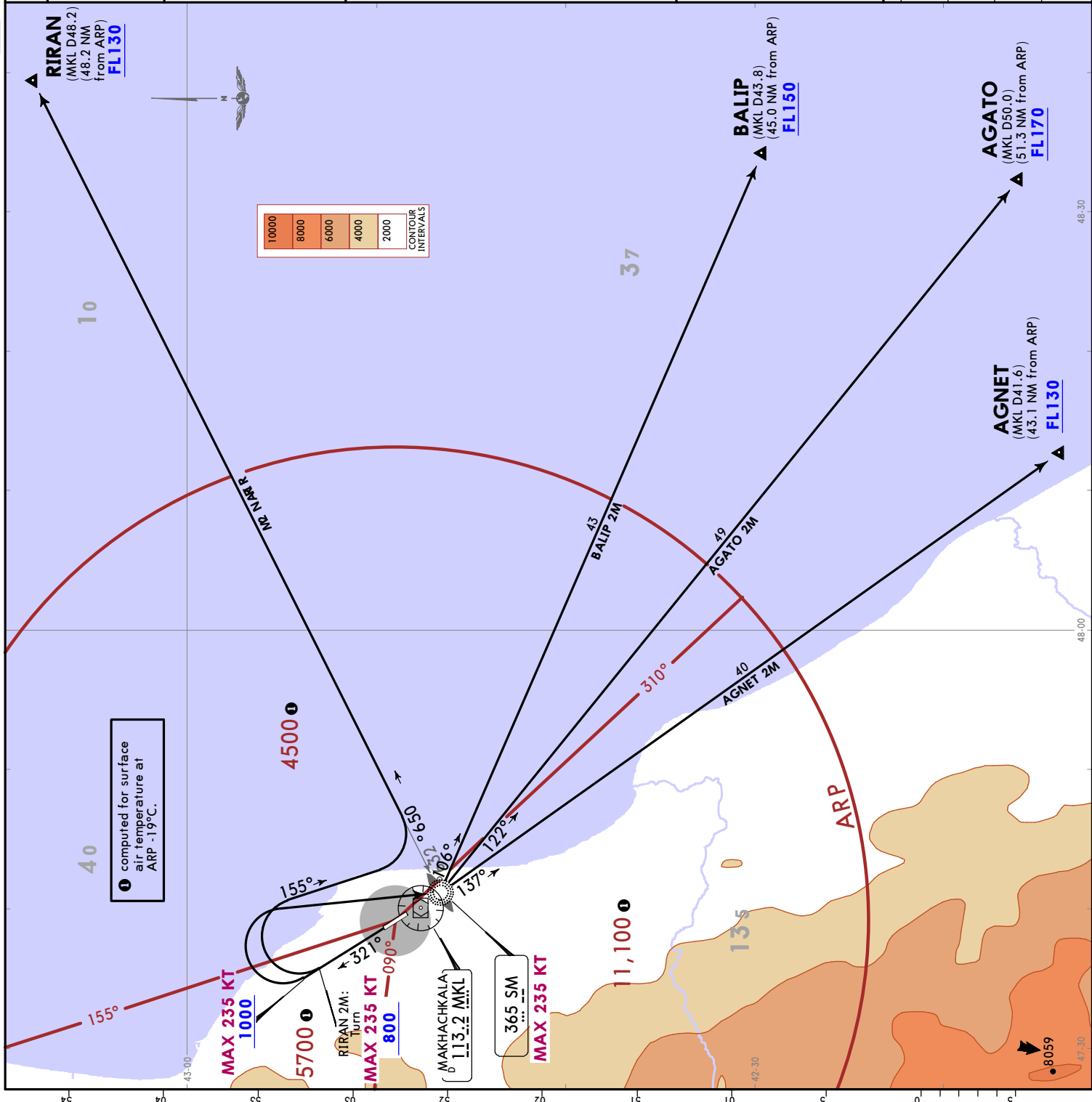
**AGATO 2M:** 4.0% up to FL170, due to airspace structure.

**BALIP 2M:** 3.9% up to FL150, due to airspace structure.

**RIRAN 2M:** 3.7% up to 2200, due to obstacles.

Gnd speed-KT	75	100	150	200	250	300
3.7% V/V (fpm)	281	375	562	749	937	1124
3.9% V/V (fpm)	296	395	592	790	987	1185
4.0% V/V (fpm)	304	405	608	810	1013	1215

SID	ROUTING
<b>AGATO 2M</b>	Climb straight ahead to at or above 1000, turn RIGHT to SM, 122° bearing from SM to AGATO.
<b>AGNET 2M</b>	Climb straight ahead to at or above 1000, turn RIGHT to SM, 137° bearing from SM to AGNET.
<b>BALIP 2M</b>	Climb straight ahead to at or above 1000, turn RIGHT to SM, 106° bearing from SM to BALIP.
<b>RIRAN 2M</b>	Climb straight ahead to at or above 800, turn RIGHT, 155° track, intercept 056° bearing from SM to RIRAN.



# MAKHACHKALA, RUSSIA

**SID**

MAKHACHKALA Radar  
121.3  
Apt Elev 16

Trans alt: 12000 QNH (QFE on request)  
1. DME or RADAR control required.  
2. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.  
3. Radar vectoring and/or 'direct to' instructions can be applied.  
4. Turn before DER is prohibited.

**ALUBA 2A [ALUB2A]**  
**DUBKI 2A [DUBK2A]**  
ONLY AVAILABLE WHEN UR(R)-533 AND UR(R)-536 NOT ACTIVE

**LARKA 2A [LARK2A]**  
ONLY AVAILABLE WHEN UR(R)-536 NOT ACTIVE

**DEPARTURES (RWY 14)**  
UNDER RADAR CONTROL WHEN UR(R)-533 ACTIVE

FEET METERS	
QNH (QFE)	700 (211)
	9300 (2835)
	9400 (2865)
	12000 (3660)

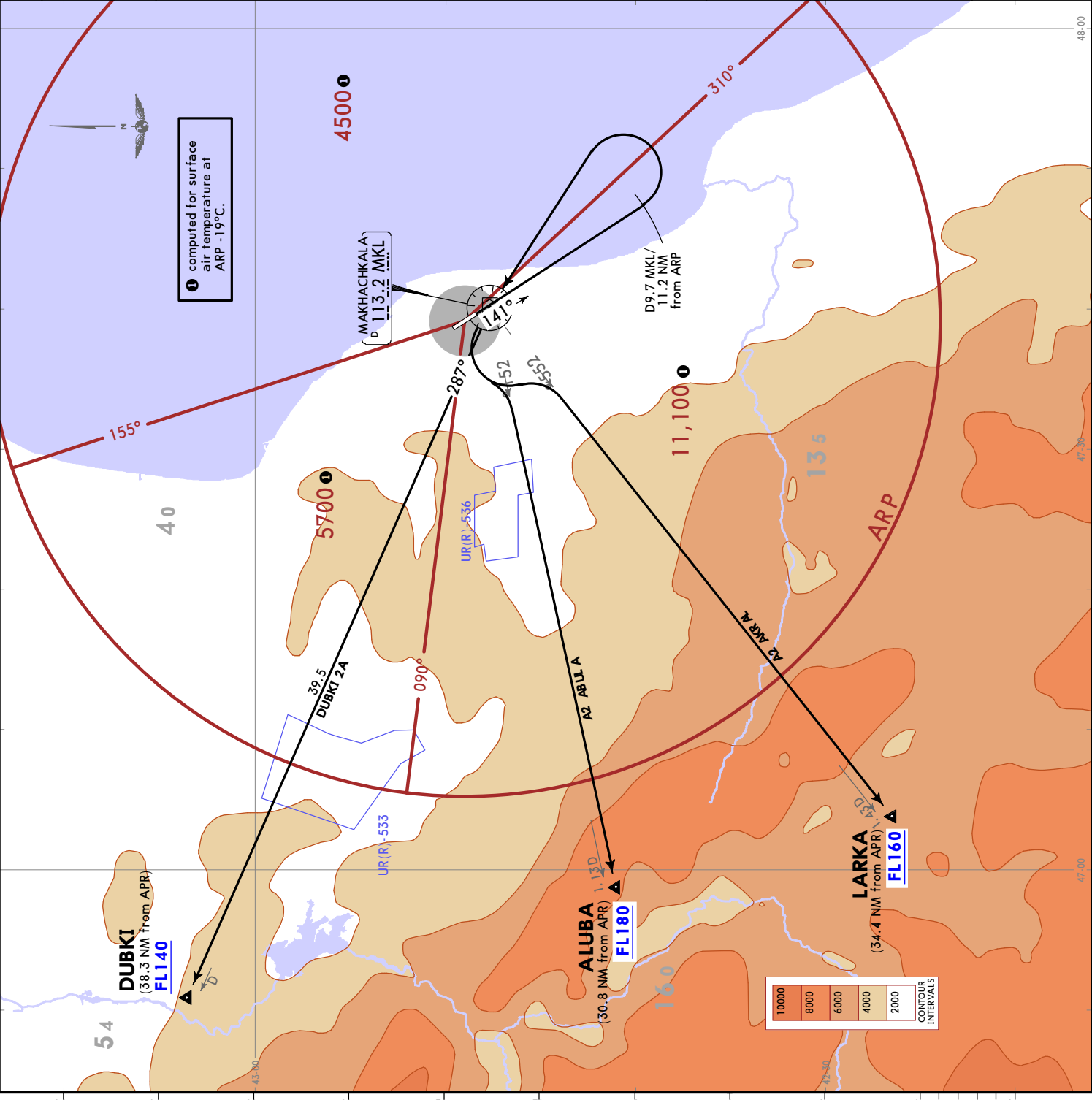
**Close-in Obstacles**  
Altitude 54 - 0.2 NM from DER, located to the RIGHT of take-off heading.

These SIDs require minimum climb gradients of

**ALUBA 2A:** 3.4% up to 9300, due to obstacles. 4.5% up to FL180, due to airspace structure.  
**LARKA 2A:** 3.6% up to 9400, due to obstacles. 3.8% up to FL160, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
3.4% V/V (fpm)	258	344	516	689	861	1033
3.6% V/V (fpm)	273	365	547	729	911	1094
3.8% V/V (fpm)	289	385	577	770	962	1154
4.5% V/V (fpm)	342	456	684	911	1139	1367

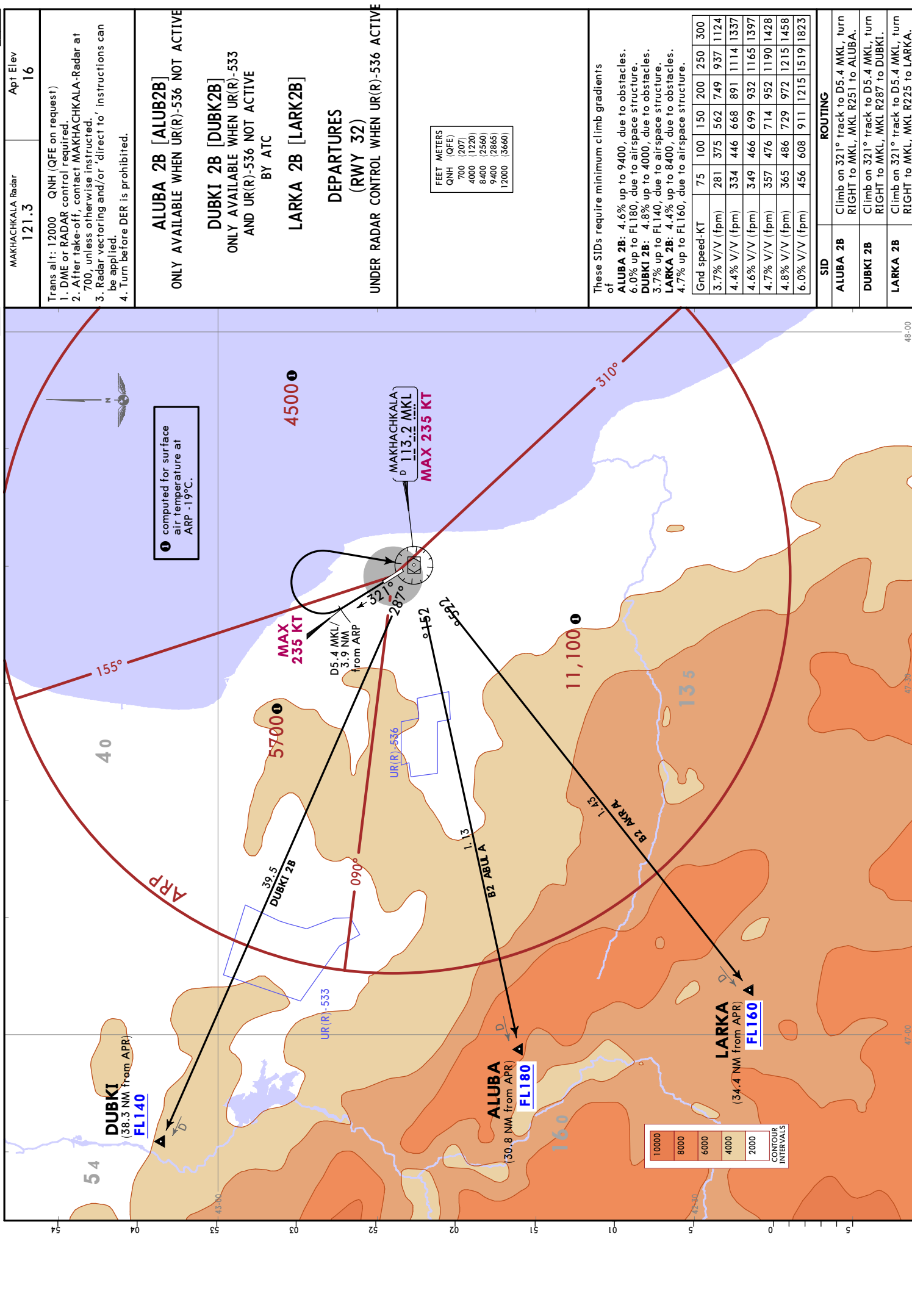
SID		ROUTING
<b>ALUBA 2A</b>		Climb on 141° track to D9.7 MKL, turn LEFT to MKL, MKL R251 to ALUBA.
<b>DUBKI 2A</b> By ATC		Climb on 141° track to D9.7 MKL, turn LEFT to MKL, MKL R287 to DUBKI.
<b>LARKA 2A</b>		Climb on 141° track to D9.7 MKL, turn LEFT to MKL, MKL R225 to LARKA.



**JEPPESSEN**  
 12 DEC 25 (10-3L) **SID**

**URML/MCX**  
 UYTASH

**MAKHACHKALA, RUSSIA**



MAKHACHKALA Radar  
 121.3  
 Apt Elev  
 16

Trans alt: 12000 QNH (QFE on request)  
 1. DME or RADAR control required.  
 2. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.  
 3. Radar vectoring and/or 'direct to' instructions can be applied.  
 4. Turn before DER is prohibited.

**ALUBA 2B [ALUB2B]**  
 ONLY AVAILABLE WHEN UR(R)-536 NOT ACTIVE

**DUBKI 2B [DUBK2B]**  
 ONLY AVAILABLE WHEN UR(R)-533  
 AND UR(R)-536 NOT ACTIVE  
 BY ATC

**LARKA 2B [LARK2B]**

**DEPARTURES**  
 (RWY 32)  
 UNDER RADAR CONTROL WHEN UR(R)-536 ACTIVE

FEET METERS	
QNH (QFE)	
700 (207)	
4000 (1220)	
8400 (2560)	
9400 (2865)	
12000 (3660)	

These SIDs require minimum climb gradients of

**ALUBA 2B:** 4.6% up to 9400, due to obstacles. 6.0% up to FL180, due to airspace structure.  
**DUBKI 2B:** 4.8% up to 4000, due to obstacles. 3.7% up to FL140, due to airspace structure.  
**LARKA 2B:** 4.4% up to 8400, due to obstacles. 4.7% up to FL160, due to airspace structure.

Grnd speed-KT	75	100	150	200	250	300
3.7% V/V (fpm)	281	375	562	749	937	1124
4.4% V/V (fpm)	334	446	668	891	1114	1337
4.6% V/V (fpm)	349	466	699	932	1165	1397
4.7% V/V (fpm)	357	476	714	952	1190	1428
4.8% V/V (fpm)	365	486	729	972	1215	1458
6.0% V/V (fpm)	456	608	911	1215	1519	1823

**SID ROUTING**

**ALUBA 2B**  
 Climb on 321° track to D5.4 MKL, turn RIGHT to MKL, MKL R251 to ALUBA.

**DUBKI 2B**  
 Climb on 321° track to D5.4 MKL, turn RIGHT to MKL, MKL R287 to DUBKI.

**LARKA 2B**  
 Climb on 321° track to D5.4 MKL, turn RIGHT to MKL, MKL R225 to LARKA.

# MAKHACHKALA, RUSSIA

**SID**

MAKHACHKALA Radar  
121.3

Aprt Elev  
16

Trans alt: 12000 QNH (QFE on request)  
1. DME or RADAR control required.  
2. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.  
3. Radar vectoring and/or 'direct to' instructions can be applied.  
4. Turn before DER is prohibited.

**ALUBA 1K [ALUB1K]  
LARKA 1K [LARK1K]**  
ONLY AVAILABLE WHEN UR(R)-536 NOT ACTIVE

**DUBKI 1K [DUBK1K]**  
ONLY AVAILABLE WHEN UR(R)-533  
AND UR(R)-536 NOT ACTIVE  
BY ATC

**DEPARTURES  
(RWY 14)**  
UNDER RADAR CONTROL WHEN UR(R)-533 ACTIVE

FEET	METERS
QNH (QFE)	
700 (211)	
3700 (1130)	
7200 (2195)	
9500 (2895)	
12000 (3660)	

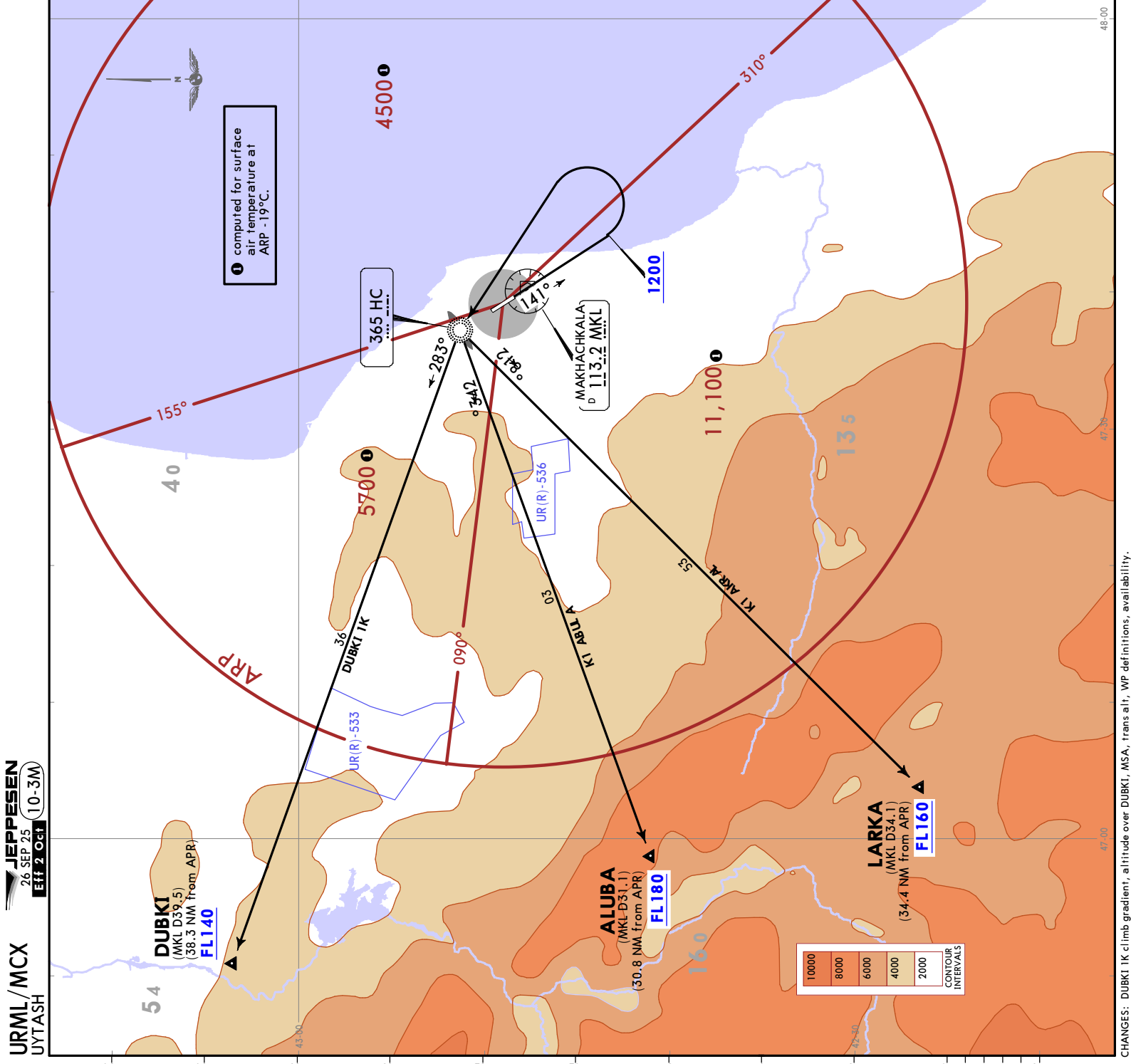
**Close-in Obstacles**  
Altitude 54 - 0.2 NM from DER, located to the RIGHT of take-off heading.

These SIDs require minimum climb gradients of

**ALUBA 1K:** 4.3% up to 9500, due to obstacles. 6.3% up to FL180, due to airspace structure.  
**DUBKI 1K:** 4.2% up to 3700, due to obstacles. 4.2% up to FL140, due to airspace structure.  
**LARKA 1K:** 4.2% up to 7200, due to obstacles. 5.0% up to FL160, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
4.2% V/V (fpm)	319	425	638	851	1063	1276
4.3% V/V (fpm)	327	435	653	871	1089	1306
5.0% V/V (fpm)	380	506	760	1013	1266	1519
6.3% V/V (fpm)	478	638	957	1276	1595	1914

SID	ROUTING
<b>ALUBA 1K</b>	Climb straight ahead to at or above 1200, turn LEFT to HC, 243° bearing from HC to ALUBA.
<b>DUBKI 1K</b>	Climb straight ahead to at or above 1200, turn LEFT to HC, 283° bearing from HC to DUBKI.
<b>LARKA 1K</b>	Climb straight ahead to at or above 1200, turn LEFT to HC, 218° bearing from HC to LARKA.



**URML/MCX**  
UYTASH

**JEPPESSEN**  
26 SEP 25  
Eff 2 Oct 10-3M

CHANGES: DUBKI 1K climb gradient; altitude over DUBKI, MSA, trans alt; WP definitions, availability.

**JEPPESEN**  
**URML/MCX**  
 26 SEP 25 (10-3N) Eff 2 Oct  
**MAKHACHKALA, RUSSIA**  
**SID**

MAKHACHKALA Radar  
 121.3  
 Apt Elev  
 16

Trans alt: 12000 QNH (QFE on request)  
 1. DME or RADAR control required.  
 2. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.  
 3. Radar vectoring and/or 'direct to' instructions can be applied.  
 4. Turn before DER is prohibited.

**ALUBA 1L [ALUB1L]**  
**LARKA 1L [LARK1L]**  
 ONLY AVAILABLE WHEN UR(R)-536 NOT ACTIVE

**DUBKI 1L [DUBK1L]**  
 ONLY AVAILABLE WHEN UR(R)-533 AND UR(R)-536 NOT ACTIVE BY ATC

**DEPARTURES (RWY 14)**

FEET METERS	
QNH (QFE)	700 (211)
1200 (370)	1200 (370)
3600 (1100)	3700 (1130)
9500 (2895)	12000 (3660)

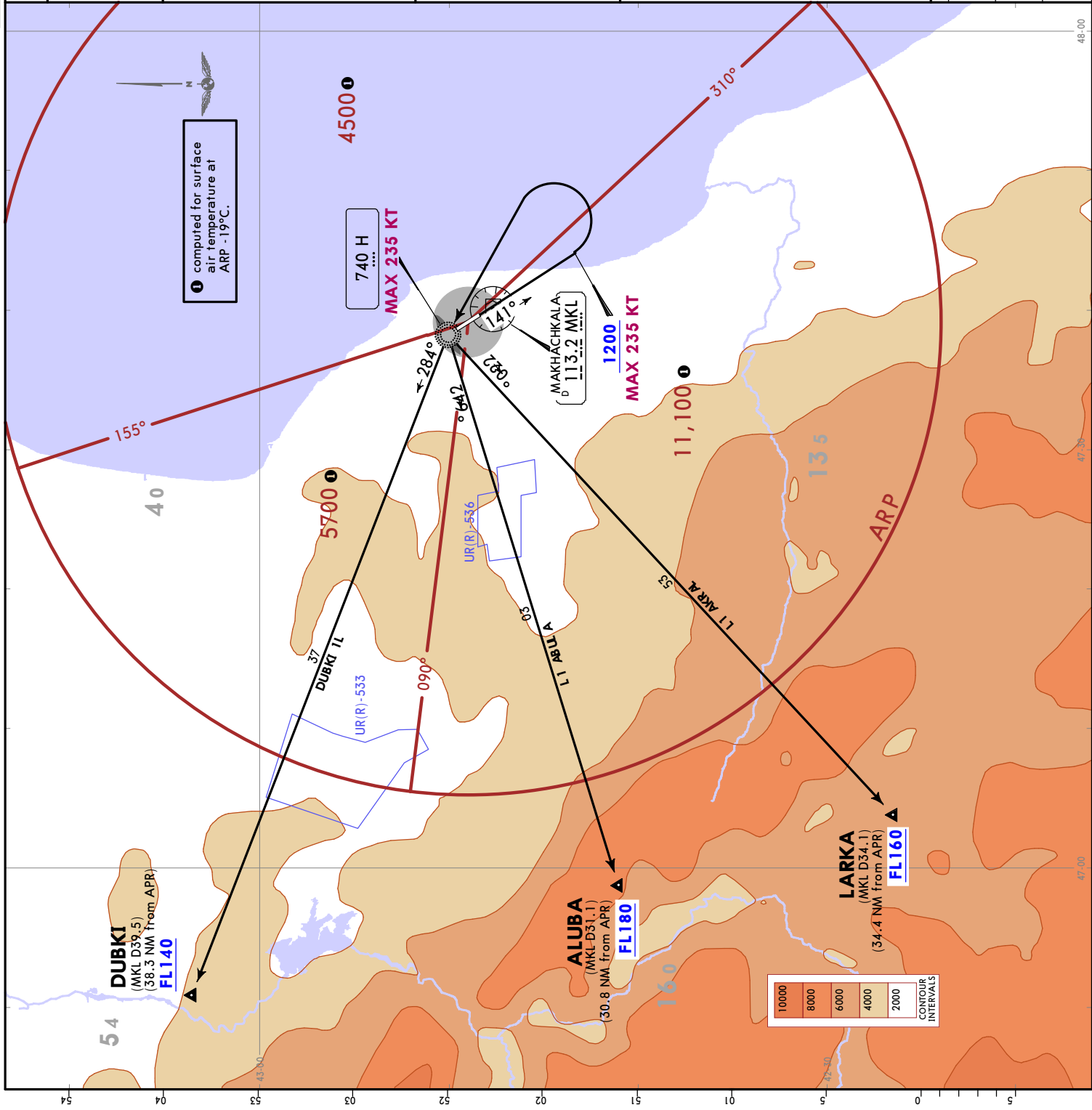
**Close-in Obstacles**  
 Altitude 54 - 0.2 NM from DER, located to the RIGHT of take-off heading.

These SIDs require minimum climb gradients of

**ALUBA 1L:** 4.4% up to 9500, due to obstacles, 6.5% up to FL180, due to airspace structure.  
**DUBKI 1L:** 4.3% up to 3600, due to obstacles, 4.1% up to FL140, due to airspace structure.  
**LARKA 1L:** 4.3% up to 3700, due to obstacles, 5.2% up to FL160, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
4.1% V/V (fpm)	311	415	623	830	1038	1246
4.3% V/V (fpm)	327	435	653	871	1089	1306
4.4% V/V (fpm)	334	446	668	891	1114	1337
5.2% V/V (fpm)	395	527	790	1053	1316	1580
6.5% V/V (fpm)	494	658	987	1316	1646	1975

SID		ROUTING	
<b>ALUBA 1L</b>	Climb straight ahead to at or above 1200, turn LEFT to H, 246° bearing from H to ALUBA.	<b>ALUBA 1L</b>	Climb straight ahead to at or above 1200, turn LEFT to H, 246° bearing from H to ALUBA.
<b>DUBKI 1L</b>	Climb straight ahead to at or above 1200, turn LEFT to H, 284° bearing from H to DUBKI.	<b>DUBKI 1L</b>	Climb straight ahead to at or above 1200, turn LEFT to H, 284° bearing from H to DUBKI.
<b>LARKA 1L</b>	Climb straight ahead to at or above 1200, turn LEFT to H, 220° bearing from H to LARKA.	<b>LARKA 1L</b>	Climb straight ahead to at or above 1200, turn LEFT to H, 220° bearing from H to LARKA.



# MAKHACHKALA, RUSSIA

**URML/MCX**  
UYTASH

**JEPPESEN**  
26 SEP 25  
Eff 2 Oct

10-3P

**MAKHACHKALA Radar**  
121.3

Apt Elev  
16

Trans alt: 12000 QNH (QFE on request)  
1. DME or RADAR control required.  
2. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.  
3. Radar vectoring and/or 'direct to' instructions can be applied.  
4. Turn before DER is prohibited.

**ALUBA 2M [ALUB2M]**  
ONLY AVAILABLE WHEN UR(R)-536 NOT ACTIVE

**DUBKI 2M [DUBK2M]**  
ONLY AVAILABLE WHEN UR(R)-533 AND UR(R)-536 NOT ACTIVE BY ATC

**LARKA 2M [LARK2M]**  
DEPARTURES  
(RWY 32)

FEET	METERS
700 (207)	
1000 (305)	
4200 (1280)	
7200 (2190)	
9500 (2890)	
10000 (3045)	

These SIDs require minimum climb gradients of

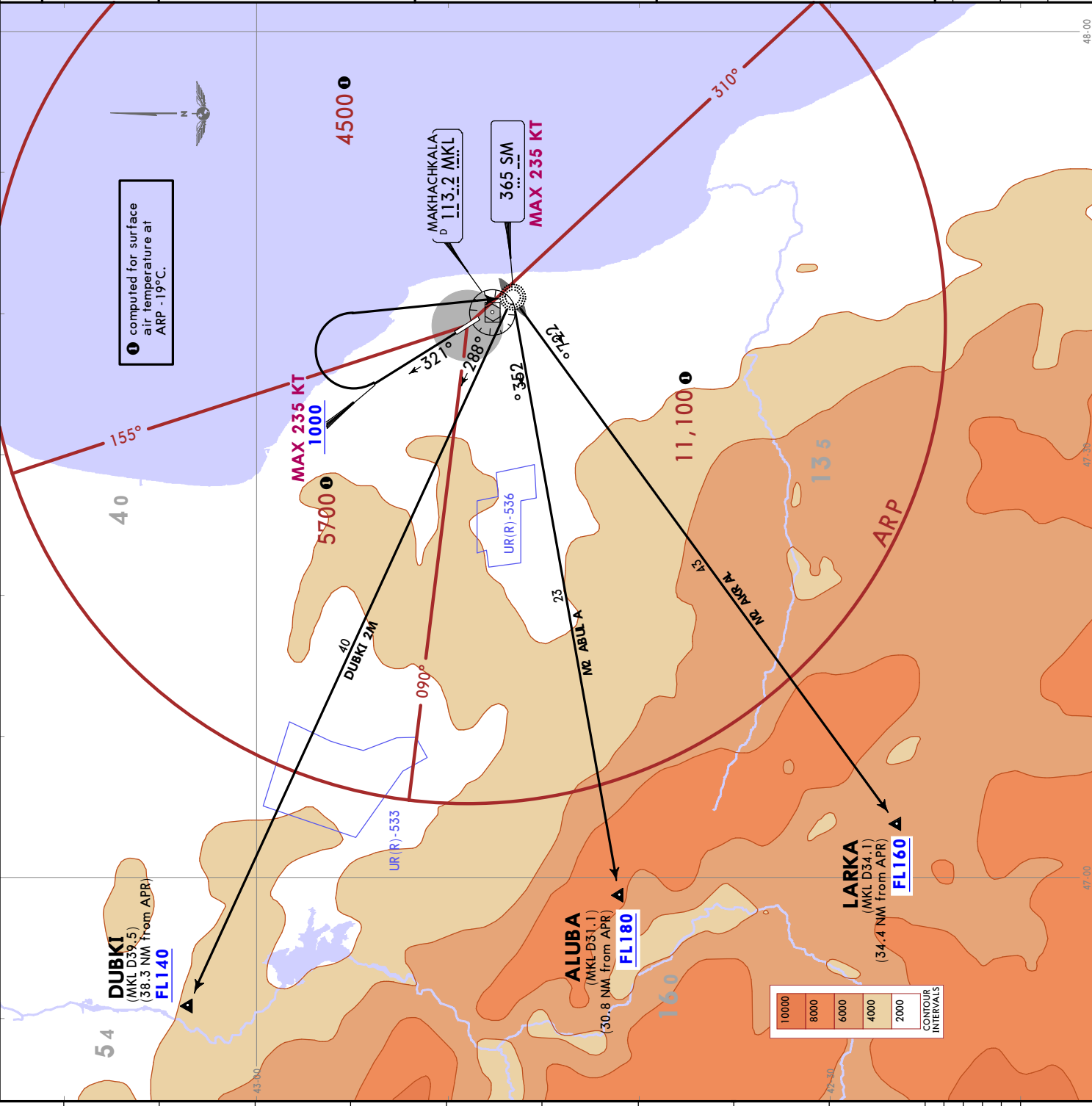
**ALUBA 2M:** 4.7% up to 9400, due to obstacles. 5.8% up to FL180, due to airspace structure.

**DUBKI 2M:** 4.5% up to 4000, due to obstacles 3.8% up to FL140, due to airspace structure.

**LARKA 2M:** 5.4% up to 7200, due to obstacles. 4.9% up to FL160, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
3.8% V/V (fpm)	289	385	577	770	962	1154
4.5% V/V (fpm)	342	456	684	911	1139	1367
4.7% V/V (fpm)	357	476	714	952	1190	1428
4.9% V/V (fpm)	372	496	744	992	1241	1489
5.4% V/V (fpm)	410	547	820	1094	1367	1641
5.8% V/V (fpm)	441	587	881	1175	1468	1762

SID	ROUTING
<b>ALUBA 2M</b>	Climb straight ahead to at or above 1000, turn RIGHT to SM, 253° bearing from SM to ALUBA.
<b>DUBKI 2M</b>	Climb straight ahead to at or above 1000, turn RIGHT to SM, 288° bearing from SM to DUBKI.
<b>LARKA 2M</b>	Climb straight ahead to at or above 1000, turn RIGHT to SM, 227° bearing from SM to LARKA.





# MAKHACHKALA, RUSSIA

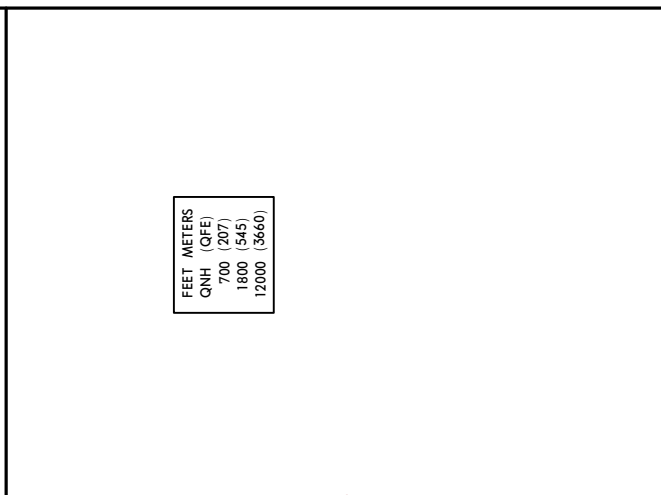
**SID**

MAKHACHKALA Radar  
121.3  
Apt Elev 16

Trans alt: 12000 GNH (QFE on request)  
1. DME or RADAR control required.  
2. After take-off, contact MAKHACHKALA Radar at 700, unless otherwise instructed.  
3. Radar vectoring and/or 'direct to' instructions can be applied.  
4. Turn before DER is prohibited.

**AMKOL 2B [AMKO2B]  
INGUT 2B [INGU2B]  
DEPARTURES  
(RWY 32)**

**UNDER RADAR CONTROL WHEN UR(R)-533 ACTIVE**



FEET	METERS
GNH (QFE)	700 (207)
	1800 (545)
	12000 (3660)

This SID requires a minimum climb gradient of  
**AMKOL 2B:** 4.8% up to FL140, due to airspace structure.  
**INGUT 2B:** 3.6% up to 1900, due to obstacles. 4.2% up to FL140, due to airspace structure.

Grnd speed-KT	75	100	150	200	250	300
3.6% V/V (fpm)	273	365	547	729	911	1094
4.2% V/V (fpm)	319	425	638	851	1063	1276
4.8% V/V (fpm)	365	486	729	972	1215	1458

SID	ROUTING
<b>AMKOL 2B</b>	Climb on 321° track to D5.4 MKL, turn RIGHT, 009° track, intercept MKL R345 to AMKOL.
<b>INGUT 2B</b>	Climb on 321° track to D5.4 MKL, intercept MKL R319 to INGUT.

**JEPPESEN**  
26 SEP 25  
**Eff 2 Oct 10-3S**

**URML/MCX  
UYTASH**

**AMKOL 1K [AMKO1K]**  
**INGUT 1K [INGU1K]**  
**DEPARTURES**  
**(RWY 14)**

**UNDER RADAR CONTROL WHEN UR(R)-533 ACTIVE**

Trans alt: 12000 QNH (QFE on request)  
1. DME or RADAR control required.  
2. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.  
3. Radar vectoring and/or 'direct to' instructions can be applied.  
4. Turn before DER is prohibited.

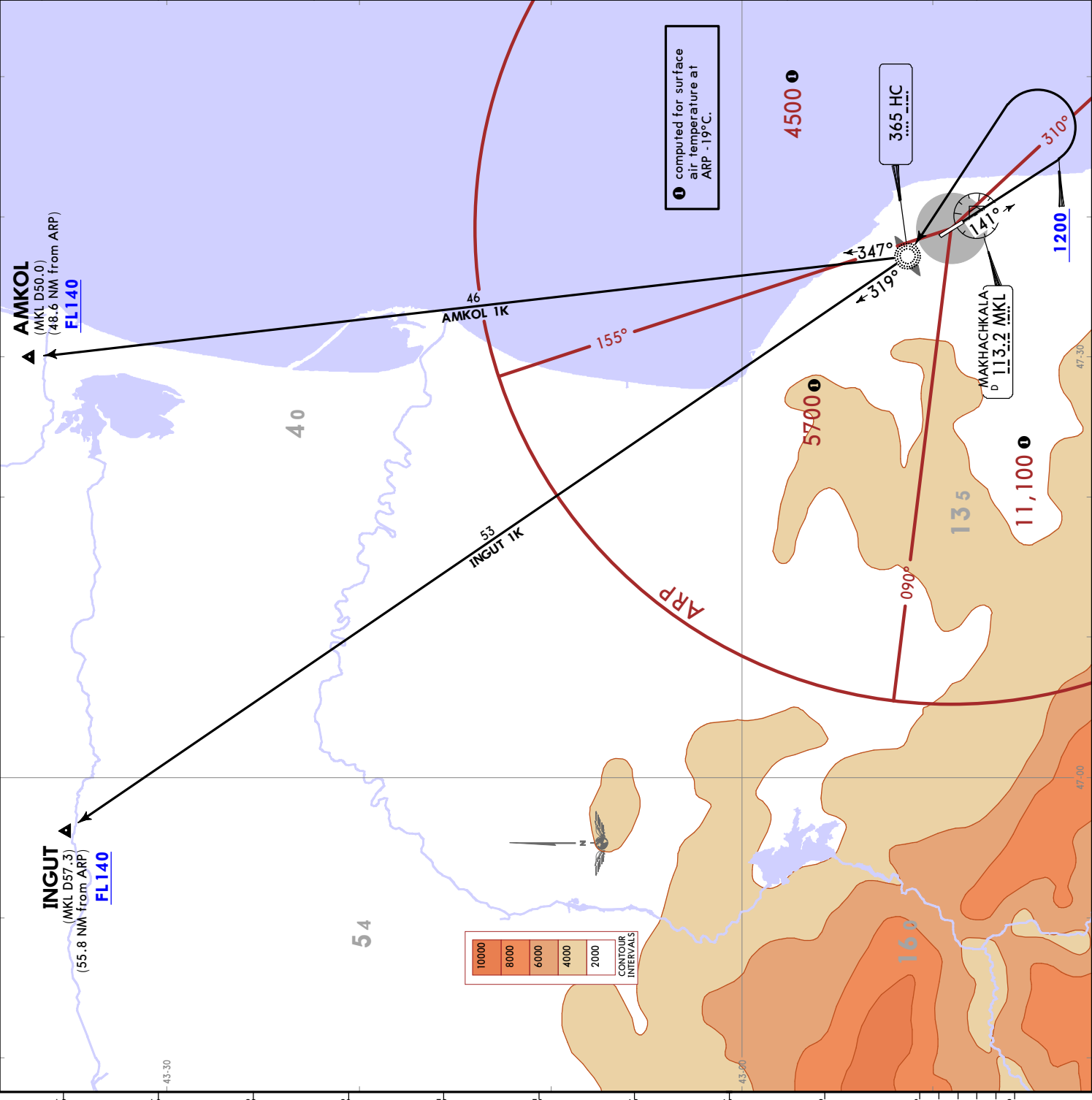
**AMKOL 1K [AMKO1K]**  
**INGUT 1K [INGU1K]**  
**DEPARTURES**  
**(RWY 14)**

FEET	METERS
QNH (QFE)	
700 (211)	
1200 (370)	
3700 (1130)	
12000 (3660)	

**Close-in Obstacles**  
Altitude 54 - 0.2 NM from DER, located to the RIGHT of take-off heading.  
These SIDs require minimum climb gradients of 4.2% up to 3700, due to obstacles.  
**AMKOL 1K: 4.2% up to FL140, due to airspace structure.**

Gnd speed-KT	75	100	150	200	250	300
4.2% V/V (fpm)	319	425	638	851	1063	1276

SID	ROUTING	
<b>AMKOL 1K</b>	Climb straight ahead to at or above 1200, turn LEFT to HC, 347° bearing from HC to AMKOL.	
<b>INGUT 1K</b>	Climb straight ahead to at or above 1200, turn LEFT to HC, 319° bearing from HC to INGUT.	



# MAKHACHKALA, RUSSIA

**SID**

MAKHACHKALA Radar  
121.3

Apt Elev  
16

Trans alt: 12000 QNH (QFE on request)  
1. DME or RADAR control required.  
2. After take-off, contact MAKHACHKALA-Radar at 121.3, unless otherwise instructed.  
3. Radar vectoring and/or 'direct to' instructions can be applied.  
4. Turn before DER is prohibited.

**AMKOL 2M [AMK02M]  
INGUT 2M [INGU2M]  
DEPARTURES  
(RWY 32)**

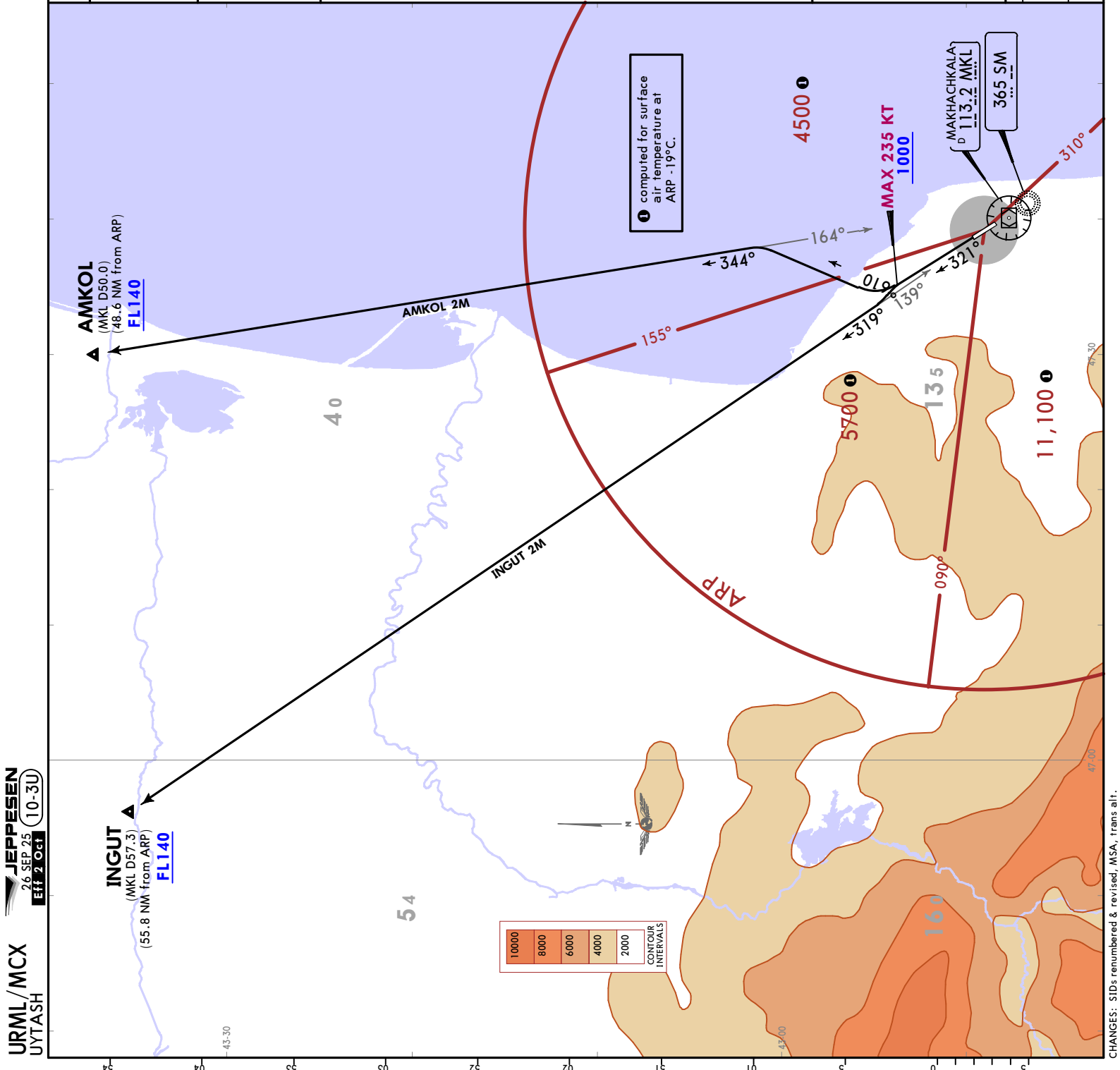
FEET	METERS
QNH (QFE)	700 (207)
	1000 (305)
	2600 (790)
	12000 (3660)

These SIDs requires minimum climb gradients of

**AMKOL 2M:** 4.7% up to FL140, due to airspace structure.  
**INGUT 2M:** 4.3% up to 2600, 4.2% up to FL140, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
4.2% V/V (fpm)	319	425	638	851	1063	1276
4.3% V/V (fpm)	327	435	653	871	1089	1306
4.7% V/V (fpm)	357	476	714	952	1190	1428

SID	ROUTING
<b>AMKOL 2M</b>	Climb straight ahead to at or above 1000, turn RIGHT, 016° track, intercept 344° bearing from SM to AMKOL.
<b>INGUT 2M</b>	Climb straight ahead to at or above 1000, intercept 319° bearing from SM to INGUT.



**JEPPESSEN**  
26 SEP 25 (10-3U)  
Eff 2 Oct

**URML/MCX**  
UYTASH

CHANGES: SIDs renumbered & revised, MSA, trans alt.

**URML/MCX**  
UYTASH

**JEPPESEN MAKHACHKALA, RUSSIA**

26 SEP 25 **10-3V** Eff 2 Oct

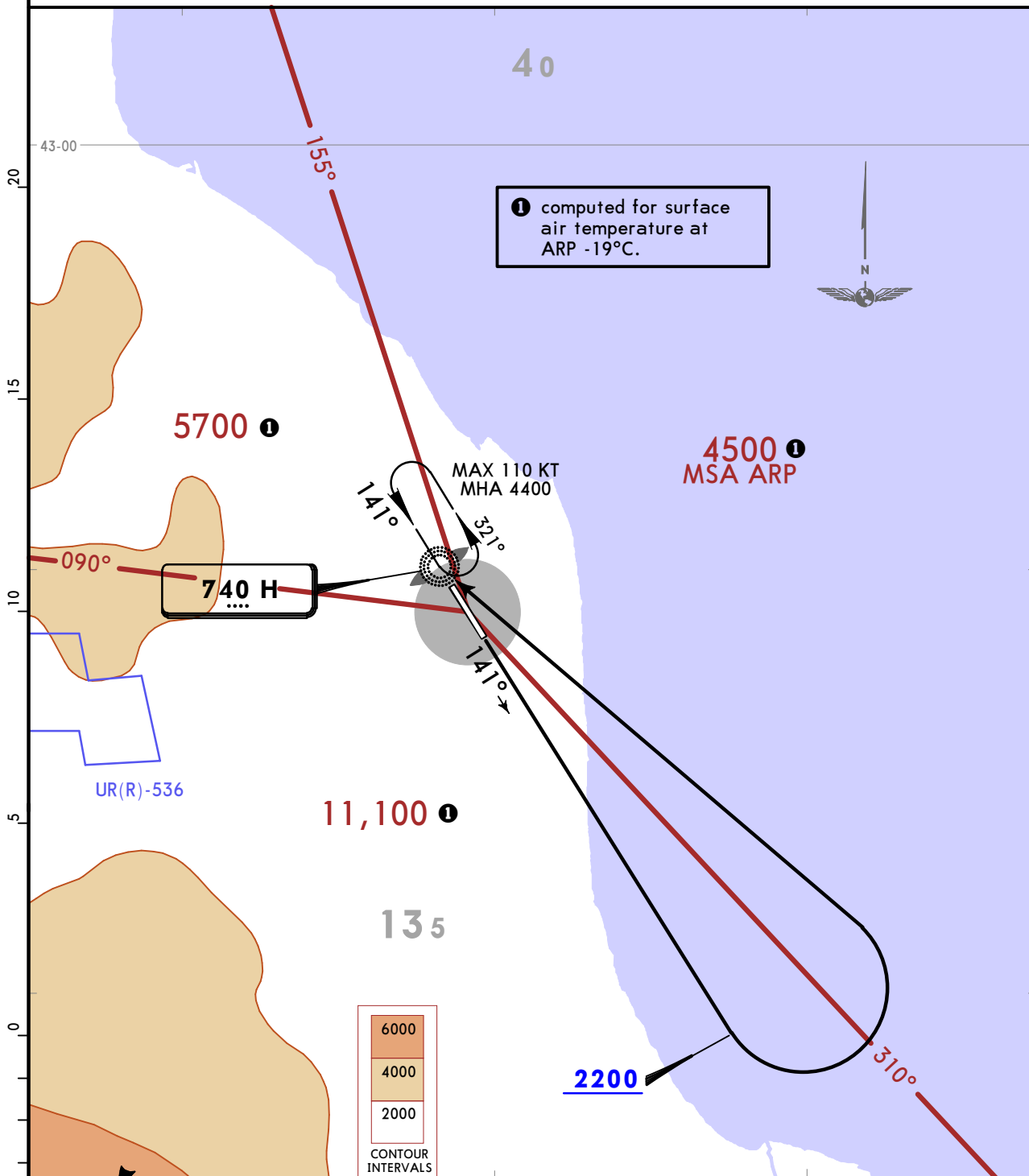
**SID**

MAKHACHKALA Radar <b>121.3</b>	Apt Elev <b>16</b>	Trans alt: 12000 QNH (QFE on request) 1. Turn before DER PROHIBITED. 2. Radar vectoring and/or 'direct to' instructions can be applied. 3. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.
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**H 1A**  
**DEPARTURE**  
**(RWY 14)**

**CAT A**

UNDER RADAR CONTROL WHEN UR(R)-536 ACTIVE



**ROUTING**

Climb straight ahead to at or above 2200, turn LEFT to H climbing to at or above 4400, join holding area.

**URML/MCX**  
**UYTASH**

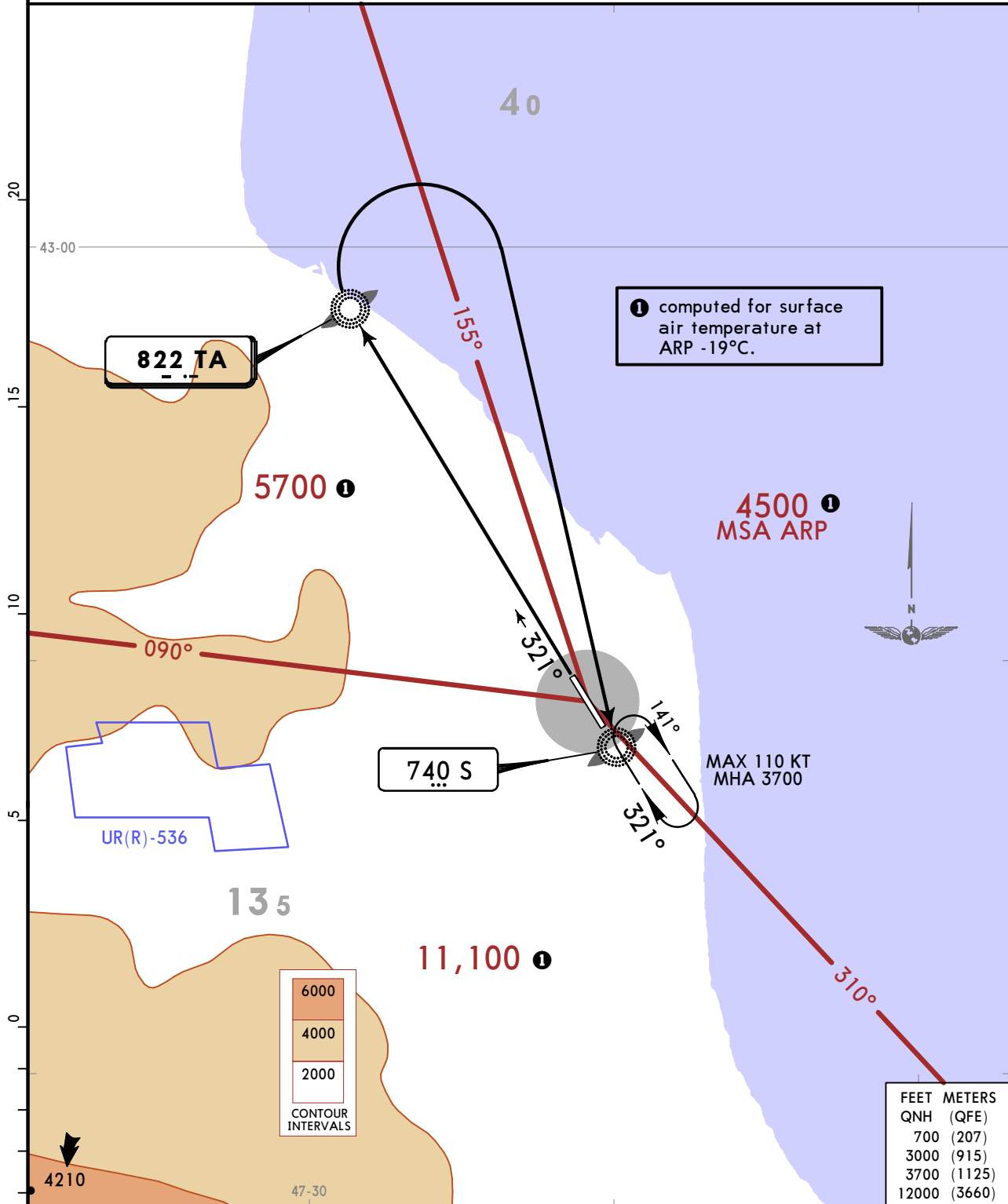
**JEPPESEN MAKHACHKALA, RUSSIA**  
26 SEP 25 **10-3W** Eff 2 Oct **SID**

MAKHACHKALA Radar <b>121.3</b>	Apt Elev <b>16</b>	Trans alt: 12000 QNH (QFE on request) 1. Radar vectoring and/or 'direct to' instructions can be applied. 2. After take-off, contact MAKHACHKALA-Radar at 700, unless otherwise instructed.
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**TA 2A**  
**DEPARTURE**  
**(RWY 32)**

**CAT A**

UNDER RADAR CONTROL WHEN UR(R)-536 ACTIVE



This SID requires a minimum climb gradient of 4.3% up to 3000.

Gnd speed-KT	75	100	150	200	250	300
4.3% V/V (fpm)	327	435	653	871	1089	1306

**ROUTING**

Climb straight ahead to TA, turn RIGHT to S climbing to at or above 3700, join holding area.

CHANGES: SID renumbered, MSA, trans alt.

# URML/MCX

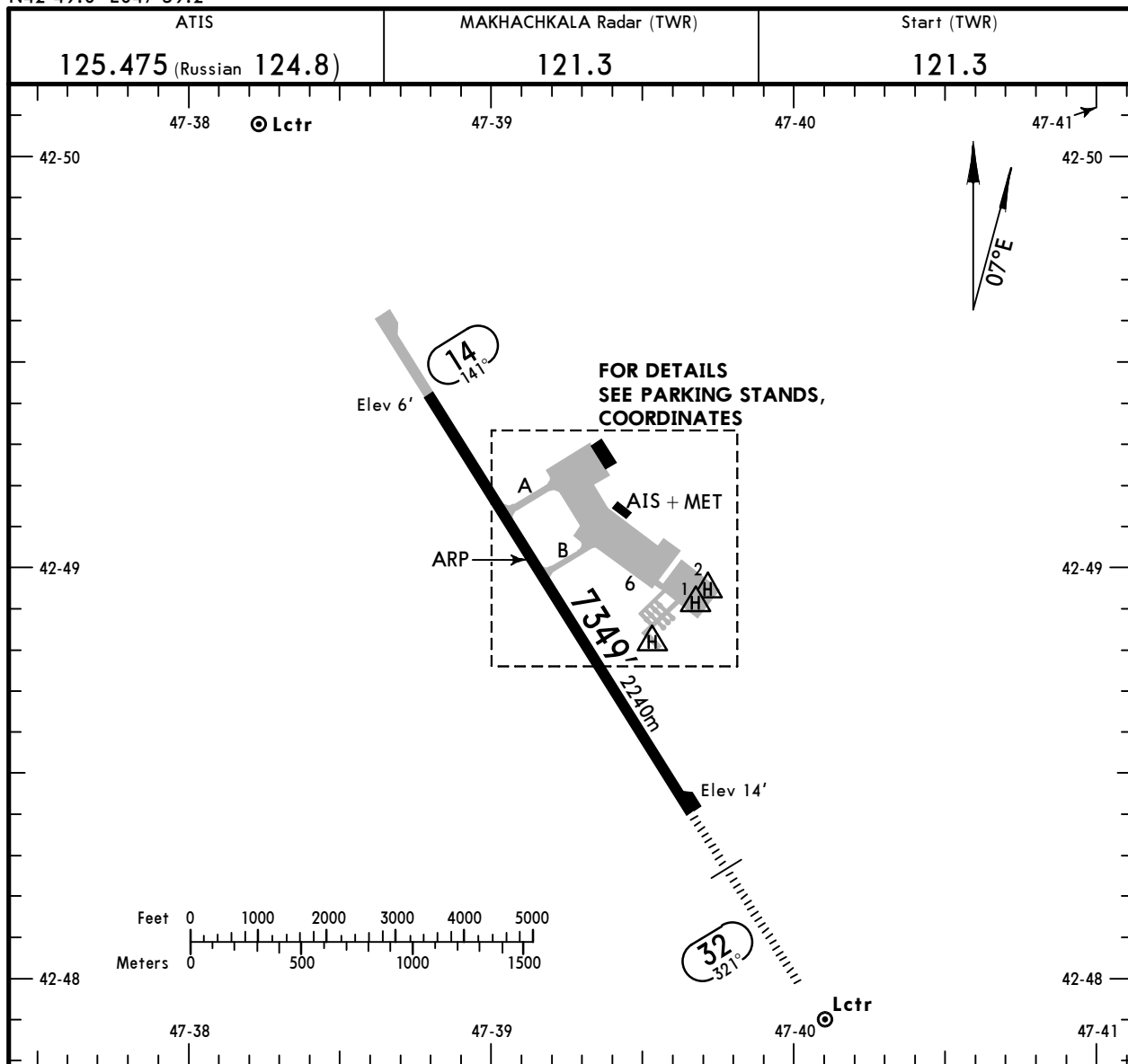
Apt Elev **16'**  
N42 49.0 E047 39.2



17 OCT 25 **(10-9)**

# MAKHACHKALA, RUSSIA

UYTASH



### ADDITIONAL RUNWAY INFORMATION

RWY	HIRL (60m)	USABLE LENGTHS		TAKE-OFF	WIDTH
		Threshold	Glide Slope		
14 ① 32	HIRL (60m)		6316' 1925m	②	148' 45m
	HIRL (60m) HIALS PAPI-L (3.00°)		6437' 1962m		

① Tailwind component shall not exceed 5m/sec.

#### ② TAKE-OFF RUN AVAILABLE

##### RWY 14:

From rwy head 7349' (2240m)  
twy A int 5282' (1610m)  
twy B int 4134' (1260m)

##### RWY 32:

From rwy head 7349' (2240m)  
twy A int 2146' (654m)  
twy B int 3215' (980m)

### Std

### TAKE-OFF

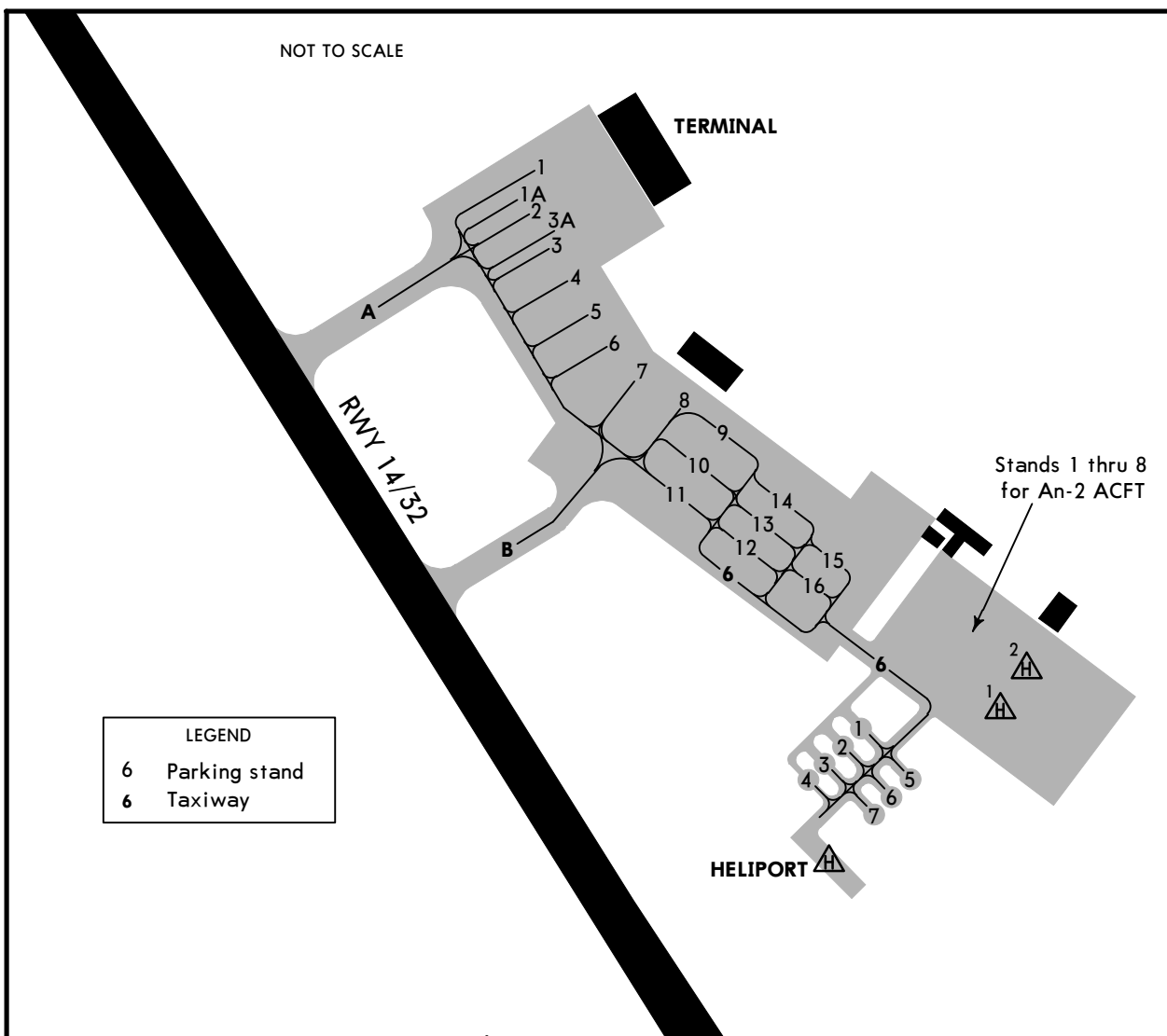
RL & RCLM	RL	RL or RCLM	Adequate Vis Ref	
DAY	NIGHT	DAY	DAY	NIGHT
R300m		R400m	R/V500m	NA

URML/MCX

JEPPESEN  
17 OCT 25 (10-9A)

MAKHACHKALA, RUSSIA

UYTASH



INS COORDINATES	
STAND No.	COORDINATES
1, 1A	N42 49.3 E047 39.3
2 thru 4	N42 49.2 E047 39.3
5, 6	N42 49.2 E047 39.4
7, 8	N42 49.1 E047 39.4

URML/MCX



EASA AIR OPS

MAKHACHKALA, RUSSIA  
UYTASH

STRAIGHT-IN RWY		A	B	C	D
14	ILS Z, Y or W	207'(201') R1200m	220'(214') R1200m	228'(222') R1200m	238'(232') R1200m
	GLS	207'(201') R1200m	220'(214') R1200m	228'(222') R1200m	238'(232') R1200m
	② LOC Z or W	690'(684') R1500m	690'(684') R1500m	690'(684') R2400m	690'(684') R2400m
	② LOC Y	570'(564') R1500m	570'(564') R1500m	570'(564') R2400m	570'(564') R2400m
	RNP LNAV/VNAV	256'(250') R1300m	266'(260') R1300m	276'(270') R1300m	286'(280') R1300m
	② RNP LNAV	580'(574') R1500m	580'(574') R1500m	580'(574') R2400m	580'(574') R2400m
	② VOR	620'(614') R1500m	620'(614') R1500m	620'(614') R2400m	620'(614') R2400m
	② NDB Z with D5.2	570'(564') R1500m	570'(564') R1500m	570'(564') R2400m	570'(564') R2400m
	② NDB Z w/o D5.2	690'(684') R1500m	690'(684') R1500m	690'(684') R2400m	690'(684') R2400m
	② NDB Y or W	730'(724') R1500m	730'(724') R1500m	730'(724') R2400m	730'(724') R2400m
	② NDB X	1810'(1804') R1500m	1810'(1804') R1500m	1810'(1804') R2400m	1810'(1804') R2400m
	32	ILS Z, Y, X or W	214'(200') R550m ①	215'(201') R550m ①	221'(207') R550m ①
ALS out		R1200m	R1200m	R1200m	R1200m
GLS		214'(200') R550m ①	215'(201') R550m ①	221'(207') R550m ①	231'(217') R550m ①
ALS out		R1200m	R1200m	R1200m	R1200m
② LOC Z, Y, X or W		740'(726') R1500m	740'(726') R1500m	740'(726') R2400m	740'(726') R2400m
RNP LNAV/VNAV		334'(320') R700m ②	344'(330') R800m	354'(340') R800m	364'(350') R900m
ALS out		R1400m	R1500m	R1500m	R1600m
② RNP LNAV		740'(726') R1500m	740'(726') R1500m	740'(726') R2400m	740'(726') R2400m
② VOR	920'(906') R1500m	920'(906') R1500m	920'(906') R2400m	920'(906') R2400m	

① R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

② Continuous Descent Final Approach.

URML/MCX



EASA AIR OPS

MAKHACHKALA, RUSSIA  
UYTASH

STRAIGHT-IN RWY	A	B	C	D
<b>32 (contd)</b> ①④ NDB Z	<b>740'</b> (726') R1500m	<b>740'</b> (726') R1500m	<b>740'</b> (726') R2400m	<b>740'</b> (726') R2400m
③④ NDB Z	<b>1020'</b> (1006') R1500m	<b>1020'</b> (1006') R1500m	<b>1020'</b> (1006') R2400m	<b>1020'</b> (1006') R2400m
②④ NDB Y	<b>740'</b> (726') R1500m	<b>740'</b> (726') R1500m	<b>740'</b> (726') R2400m	<b>740'</b> (726') R2400m
③④ NDB Y	<b>1100'</b> (1086') R1500m	<b>1100'</b> (1086') R1500m	<b>1100'</b> (1086') R2400m	<b>1100'</b> (1086') R2400m
NDB X	<b>1910'</b> (1896') R1500m	<b>1910'</b> (1896') R1500m	<b>1910'</b> (1896') R2400m	<b>1910'</b> (1896') R2400m

- ① with missed approach climb gradient mim 3.0% (183'/NM).
- ② with missed approach climb gradient mim 3.4% (207'/NM).
- ③ with missed approach climb gradient mim 2.5% (152'/NM).
- ④ Continuous Descent Final Approach.

⑤ CIRCLE-TO-LAND	100 KT	135 KT	180 KT	205 KT
	<b>790'</b> (774')	<b>830'</b> (814')	<b>1040'</b> (1024')	<b>1040'</b> (1024')
After VOR Rwy 32	<b>920'</b> (904')	<b>920'</b> (904')	<b>1040'</b> (1024')	<b>1040'</b> (1024')
After NDB Z Rwy 32	<b>1030'</b> (1014')	<b>1030'</b> (1014')	<b>1040'</b> (1024')	<b>1040'</b> (1024')
After NDB Y Rwy 32	<b>1110'</b> (1094')	<b>1110'</b> (1094')	<b>1110'</b> (1094')	<b>1110'</b> (1094')
After NDB X Rwy 14	<b>1820'</b> (1804')	<b>1820'</b> (1804')	<b>1820'</b> (1804')	<b>1820'</b> (1804')
After NDB X Rwy 32	<b>1920'</b> (1904')	<b>1920'</b> (1904')	<b>1920'</b> (1904')	<b>1920'</b> (1904')
	⑥ V1500m	⑥ V1600m	⑥ V2400m	⑥ V3600m

- ⑤ Prohibited West of airport
- ⑥ or higher straight-in minimums.

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

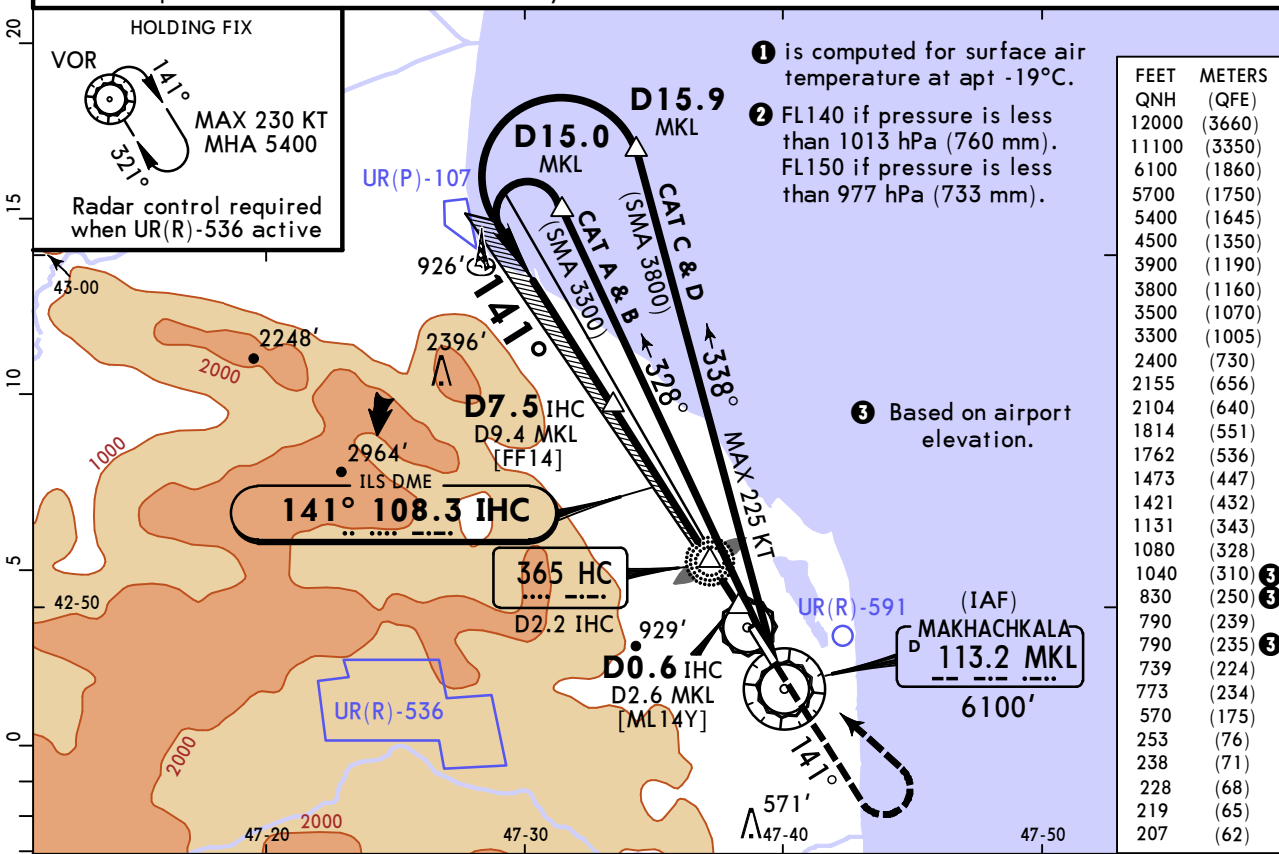
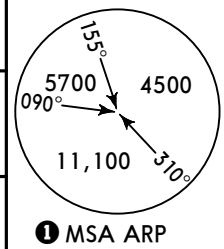


# URML/MCX UYTASH

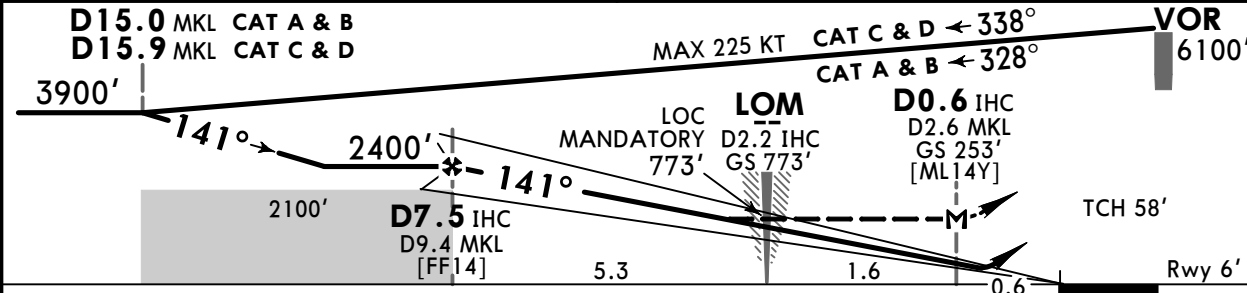
**JEPPESSEN**  
17 OCT 25 **(11-2)**

# MAKHACHKALA, RUSSIA ILS Y or LOC Y Rwy 14

ATIS (Russian) <b>125.475 124.8</b>		MAKHACHKALA Approach <b>119.7</b>	MAKHACHKALA Radar (TWR/R) <b>121.3</b>	Start (TWR) <b>121.3</b>
LOC IHC <b>108.3</b>	Final Apch Crs <b>141°</b>	D7.5 IHC <b>2400'</b> (2394')	ILS DA(H) Refer to Minimums	Apt Elev 16' Rwy 6'
<b>MISSED APCH:</b> Climb on track 141° to 3500' or above, then turn LEFT to VOR climbing to 5400' or above. Do not turn before MAP.				
Alt Set: hPa (MM on req)		Rwy Elev: 0 hPa	Trans level: FL130 <b>2</b>	Trans alt: 12000'
1. DME required. 2. ILS DME reads zero at rwy 14 threshold.				



MKL DME	8.6	7.6	6.5	5.4	4.3	IHC DME	6.5	5.4	4.3	3.2	2.2
ALTITUDE	2155'	1814'	1473'	1131'	790'	ALTITUDE	2104'	1762'	1421'	1080'	739'



Gnd speed-Kts	70	90	100	120	140	160	MIN <b>3500'</b> on <b>141°</b>	
ILS GS or LOC Descent Angle	3.00°	372	478	531	637	743		849
MAP at D2.6 MKL/D0.6 IHC/Timing not authorized for defining the MAP.								

	STRAIGHT-IN LANDING		CIRCLE-TO-LAND	
	ILS	LOC (GS out)	Prohibited West of airport	
	DA(H) A: <b>207'</b> (201') C: <b>228'</b> (222') B: <b>220'</b> (214') D: <b>238'</b> (232')	CDFA <b>1</b> DA/MDA(H) <b>570'</b> (564')	Max KT	MDA(H)
A	R1200m	R1500m	100	<b>790'</b> (774') V1500m
B			135	<b>830'</b> (814') V1600m
C			180	<b>1040'</b> (1024') V2400m
D			205	<b>1040'</b> (1024') V3600m

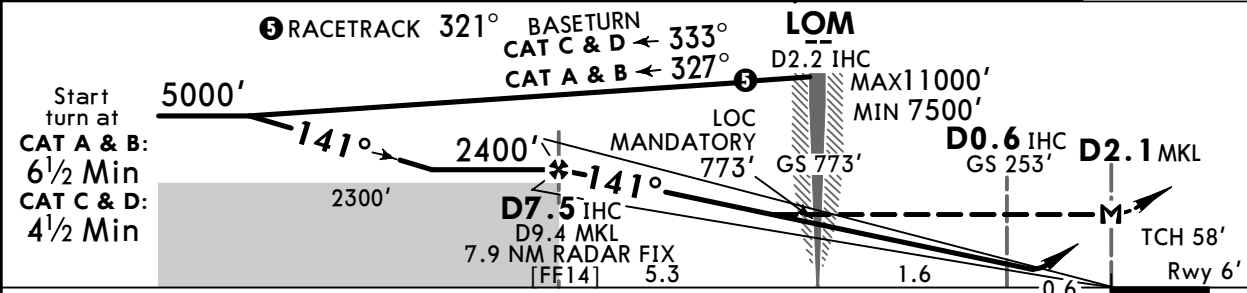
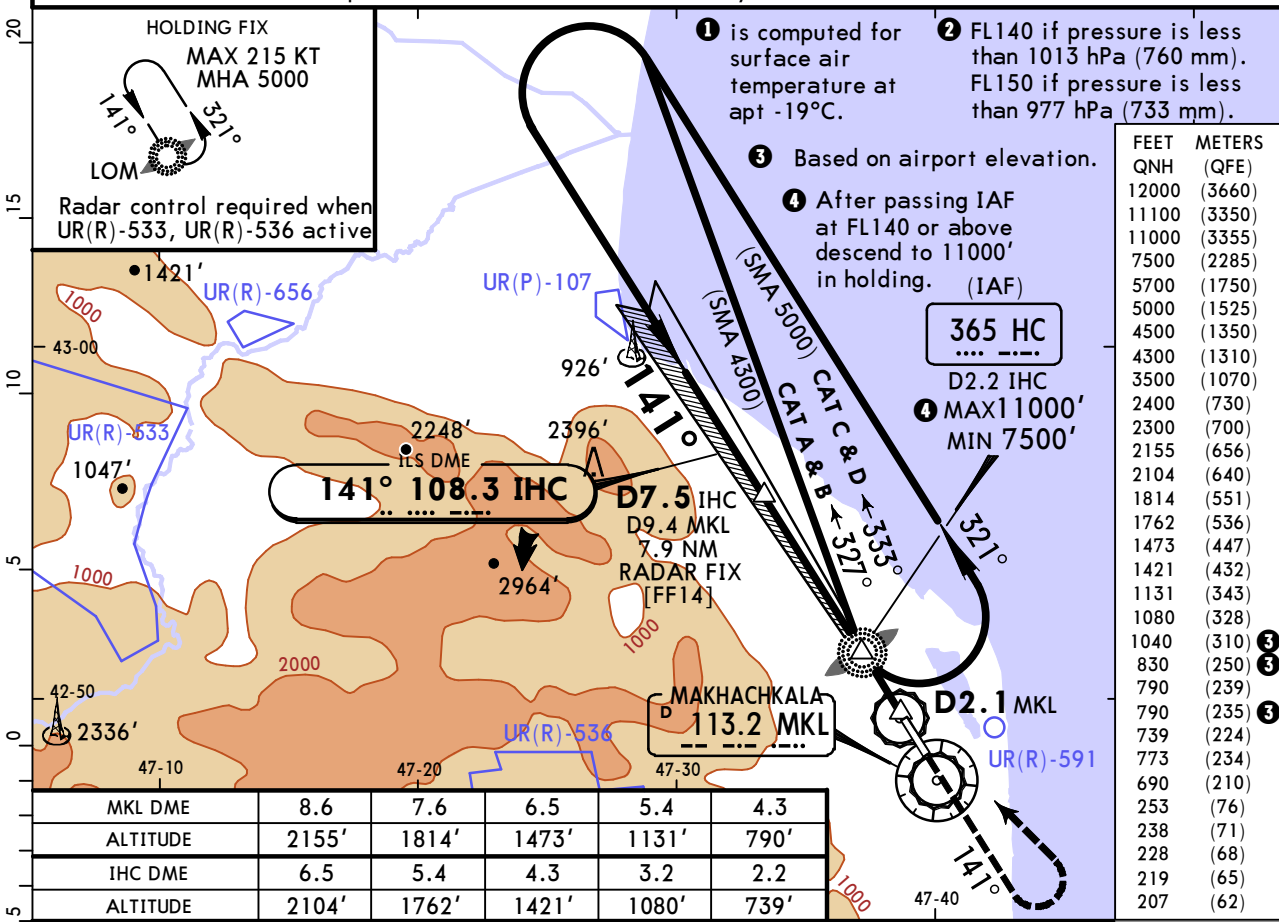
**1** VNAV DA(H) in lieu of MDA(H) depends on operator policy.

# URML/MCX UYTASH

**JEPPESSEN**  
17 OCT 25 **(11-3)**

# MAKHACHKALA, RUSSIA ILS W or LOC W Rwy 14

BRIEFING STRIP™	ATIS (Russian) <b>125.475 124.8</b>	MAKHACHKALA Approach <b>119.7</b>	MAKHACHKALA Radar (TWR/R) <b>121.3</b>	Start (TWR) <b>121.3</b>	
	LOC IHC <b>108.3</b>	Final Apch Crs <b>141°</b>	<b>D7.5 IHC</b> <b>2400' (2394')</b>	ILS DA(H) Refer to Minimums	
<b>MISSED APCH:</b> Climb on track 141° to 3500' or above, then turn LEFT to HC NDB climbing to 5000' or above. Do not turn before MAP.					① MSA ARP
Alt Set: hPa (MM on req)		Rwy Elev: 0 hPa	Trans level: FL130 ②	Trans alt: 12000'	
1. DME or Radar control required. 2. ILS DME reads zero at rwy 14 threshold.					



Gnd speed-Kts	70	90	100	120	140	160	MIN <b>3500'</b> on <b>141°</b>	
ILS GS or LOC Descent Angle	3.00°	372	478	531	637	743		849
MAP at D2.1 MKL								

PANS OPS	<b>Std</b> STRAIGHT-IN LANDING		CIRCLE-TO-LAND	
	ILS		LOC (GS out)	
	DA(H) A: <b>207'</b> (201') C: <b>228'</b> (222') B: <b>220'</b> (214') D: <b>238'</b> (232')		CDFA ① DA/MDA(H) <b>690'</b> (684')	
	R1200m		R1500m	
	R2400m		R2400m	
		Max KT	MDA(H)	
A		100	<b>790'</b> (774')	V1500m
B		135	<b>830'</b> (814')	V1600m
C		180	<b>1040'</b> (1024')	V2400m
D		205	<b>1040'</b> (1024')	V3600m

① VNAV DA(H) in lieu of MDA(H) depends on operator policy.

**URML/MCX**  
UYTASH

26 SEP 25 (11-5) Eff 2 Oct

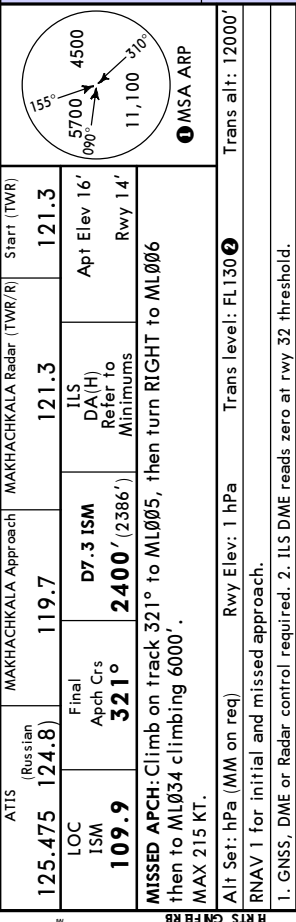
**JEPPESSEN**

ATIS (Russian)	MAKHACHKALA Approach	MAKHACHKALA Radar (TWR/R)	Start (TWR)
125.475	119.7	121.3	121.3
LOC ISM	Final Apch Crs	ILS DA(H) Refer to Minimums	Apt Elev 16'
109.9	321°	D7.3 ISM 2400' (2386')	Rwy 14'

**MISSED APCH:** Climb on track 321° to ML005, then turn RIGHT to ML006 then to ML034 climbing 6000'.  
MAX 215 KT.

Alt Set: hPa (MM on req) Rwy Elev: 1 hPa Trans level: FL130  
RNAV 1 for initial and missed approach.

1. GNSS, DME or Radar control required. 2. ILS DME reads zero at rwy 32 threshold.



ISM DME	2.2	3.2	4.3	5.4	6.5
ALTITUDE	746'	1088'	1429'	1770'	2111'
MKL DME	2.2	3.2	4.3	5.4	6.5
ALTITUDE	994'	1335'	1677'	2018'	2359'

LOC: Pass LMM not below 240'.  
LMM LOM LOC  
D0.6 ISM GS 256'  
D2.1 ISM MANDATORY GS 735', 735', 2400', 1400'  
D6.6 MKL 8.1 NM RADAR FIX [FF32]  
TCH 55'

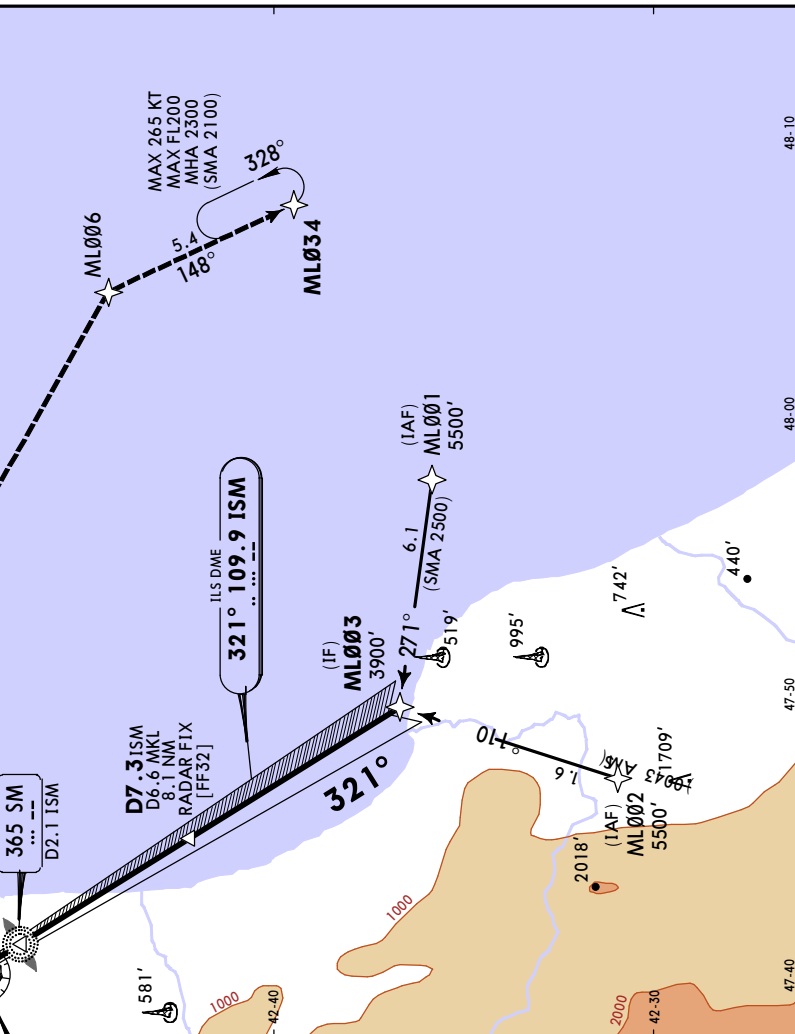
Grnd speed-Kts	70	90	100	120	140	160
ILS GS or PAPI	3.00°	372	478	531	637	743
LOC Descent Angle	849					

MAP at LMM/DD.6 ISM/Timing not authorized for defining the MAP.

**Std**

ILS		LOC (GS out)	
C: 221' (207')		CDFA	
B: 215' (201') D: 231' (217')		2 DA/MDA(H) 740' (726')	
A	ALS out	ALS out	
B	R1200m	R1500m	
C	R550m	R2400m	
D			

LOC: Pass LMM not below 240'.  
LMM LOM LOC  
D0.6 ISM GS 256'  
D2.1 ISM MANDATORY GS 735', 735', 2400', 1400'  
D6.6 MKL 8.1 NM RADAR FIX [FF32]  
TCH 55'



Grnd speed-Kts	70	90	100	120	140	160
ILS GS or PAPI	3.00°	372	478	531	637	743
LOC Descent Angle	849					

MAP at LMM/DD.6 ISM/Timing not authorized for defining the MAP.

**Std**

ILS		LOC (GS out)	
C: 221' (207')		CDFA	
B: 215' (201') D: 231' (217')		2 DA/MDA(H) 740' (726')	
A	ALS out	ALS out	
B	R1200m	R1500m	
C	R550m	R2400m	
D			

LOC: Pass LMM not below 240'.  
LMM LOM LOC  
D0.6 ISM GS 256'  
D2.1 ISM MANDATORY GS 735', 735', 2400', 1400'  
D6.6 MKL 8.1 NM RADAR FIX [FF32]  
TCH 55'

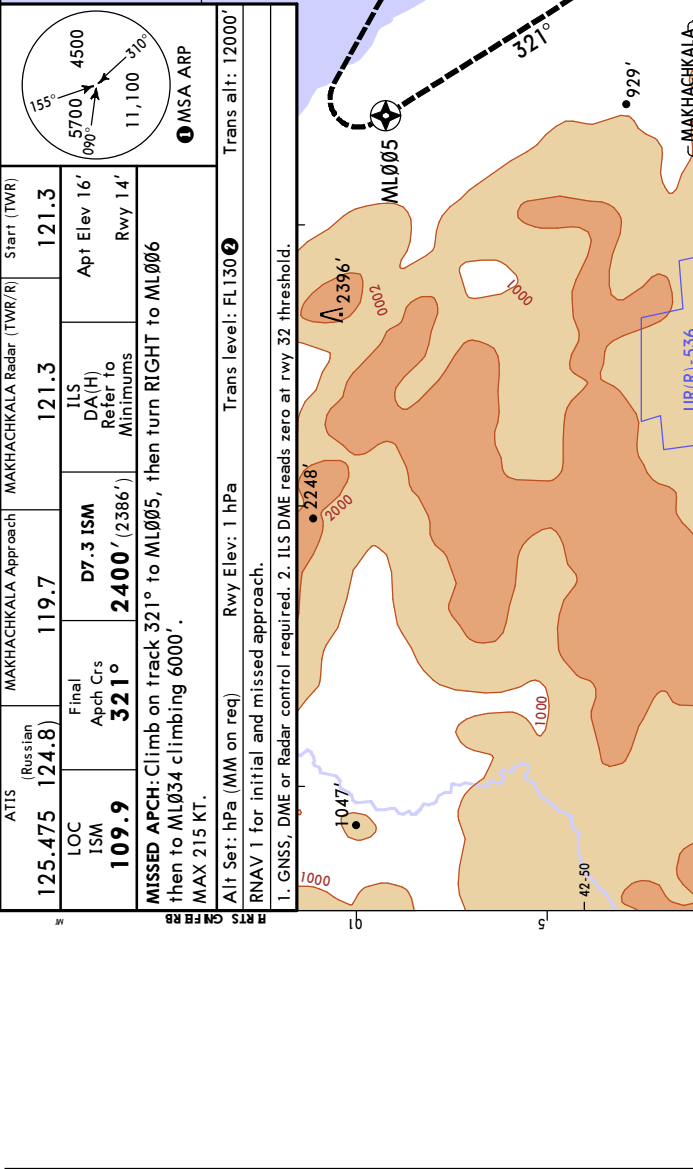
1 R750m when a Flight Director or Autopilot or HUD to DA is not used.  
2 VNAV DA(H) in lieu of MDA(H) depends on operator policy.

CHANGES: Trans alt, MSA, VOR DME position, rwy length, procedure, notes, minimums.

**MAKHACHKALA, RUSSIA**  
ILS Z or LOC Z Rwy 32

FEET	METERS
QNH (QFE)	(3660)
12000	(3660)
11100	(3350)
6000	(1825)
5700	(1750)
5500	(1675)
4500	(1350)
3900	(1185)
3400	(1035)
2900	(760)
2400	(730)
2359	(715)
2111	(640)
2100	(635)
2018	(611)
1770	(536)
1677	(507)
1429	(432)
1400	(425)
1335	(403)
1088	(328)
1040	(310)
994	(299)
830	(250)
790	(240)
746	(224)
740	(220)
735	(220)
256	(74)
231	(67)
221	(63)
215	(61)
214	(60)

Based on airport elevation.



Grnd speed-Kts	70	90	100	120	140	160
ILS GS or PAPI	3.00°	372	478	531	637	743
LOC Descent Angle	849					

MAP at LMM/DD.6 ISM/Timing not authorized for defining the MAP.

**Std**

ILS		LOC (GS out)	
C: 221' (207')		CDFA	
B: 215' (201') D: 231' (217')		2 DA/MDA(H) 740' (726')	
A	ALS out	ALS out	
B	R1200m	R1500m	
C	R550m	R2400m	
D			

LOC: Pass LMM not below 240'.  
LMM LOM LOC  
D0.6 ISM GS 256'  
D2.1 ISM MANDATORY GS 735', 735', 2400', 1400'  
D6.6 MKL 8.1 NM RADAR FIX [FF32]  
TCH 55'

1 R750m when a Flight Director or Autopilot or HUD to DA is not used.  
2 VNAV DA(H) in lieu of MDA(H) depends on operator policy.

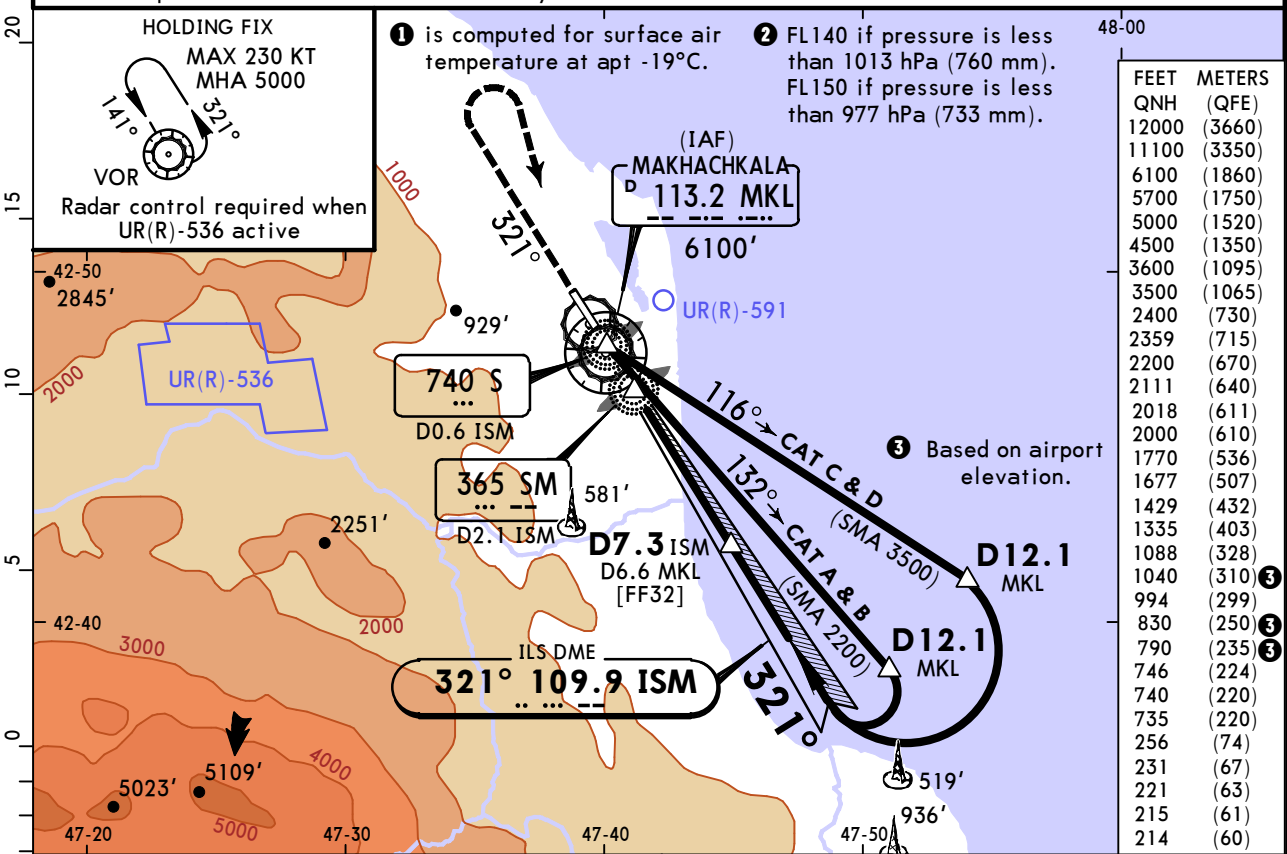
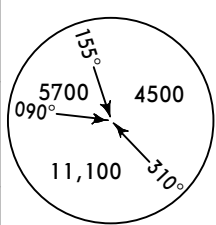
CHANGES: Trans alt, MSA, VOR DME position, rwy length, procedure, notes, minimums.

# URML/MCX UYTASH

**JEPPESEN**  
26 SEP 25  
Eff 2 Oct **11-6**

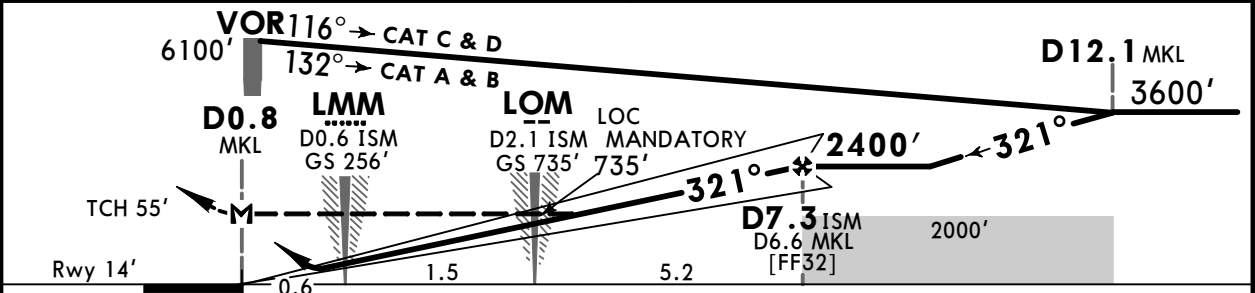
# MAKHACHKALA, RUSSIA ILS Y or LOC Y Rwy 32

ATIS (Russian) <b>125.475 124.8</b>		MAKHACHKALA Approach <b>119.7</b>	MAKHACHKALA Radar (TWR/R) <b>121.3</b>	Start (TWR) <b>121.3</b>
LOC ISM <b>109.9</b>	Final Apch Crs <b>321°</b>	D7.3 ISM <b>2400'</b> (2386')	ILS DA(H) Refer to Minimums	Apt Elev 16' Rwy 14'
<b>MISSED APCH:</b> Climb on track 321° to 3500' or above, then turn RIGHT to VOR climbing to 5000' or above. Do not turn before MAP.				
Alt Set: hPa (MM on req)		Rwy Elev: 1 hPa	Trans level: FL130 <b>2</b>	Trans alt: 12000'
1. DME required. 2. ILS DME reads zero at rwy 32 threshold.				



FEET	METERS
12000	(3660)
11100	(3350)
6100	(1860)
5700	(1750)
5000	(1520)
4500	(1350)
3600	(1095)
3500	(1065)
2400	(730)
2359	(715)
2200	(670)
2111	(640)
2018	(611)
2000	(610)
1770	(536)
1677	(507)
1429	(432)
1335	(403)
1088	(328)
1040	(310)
994	(299)
830	(250)
790	(235)
746	(224)
740	(220)
735	(220)
256	(74)
231	(67)
221	(63)
215	(61)
214	(60)

ISM DME	2.2	3.2	4.3	5.4	6.5	MKL DME	2.2	3.2	4.3	5.4	6.5
ALTITUDE	746'	1088'	1429'	1770'	2111'	ALTITUDE	994'	1335'	1677'	2018'	2359'



Gnd speed-Kts	70	90	100	120	140	160	HIALS	MIN	3500'	on	321°
ILS GS or LOC Descent Angle	3.00°	372	478	531	637	743	PAPI				
MAP at D0.8 MKL/Timing not authorized for defining the MAP.											

	STRAIGHT-IN LANDING				CIRCLE-TO-LAND	
	ILS		LOC (GS out)		Prohibited West of airport	
A	A: <b>214'</b> (200')	C: <b>221'</b> (207')	CDFA			
B	DA(H) B: <b>215'</b> (201')		D: <b>231'</b> (217')			
C	ALS out		ALS out			
D	R550m		R1200m			
			R1500m			
			R2400m			
					Max Kts	MDA(H)
					100	<b>790'</b> (774') V1500m
					135	<b>830'</b> (814') V1600m
					180	<b>1040'</b> (1024') V2400m
					205	<b>1040'</b> (1024') V3600m

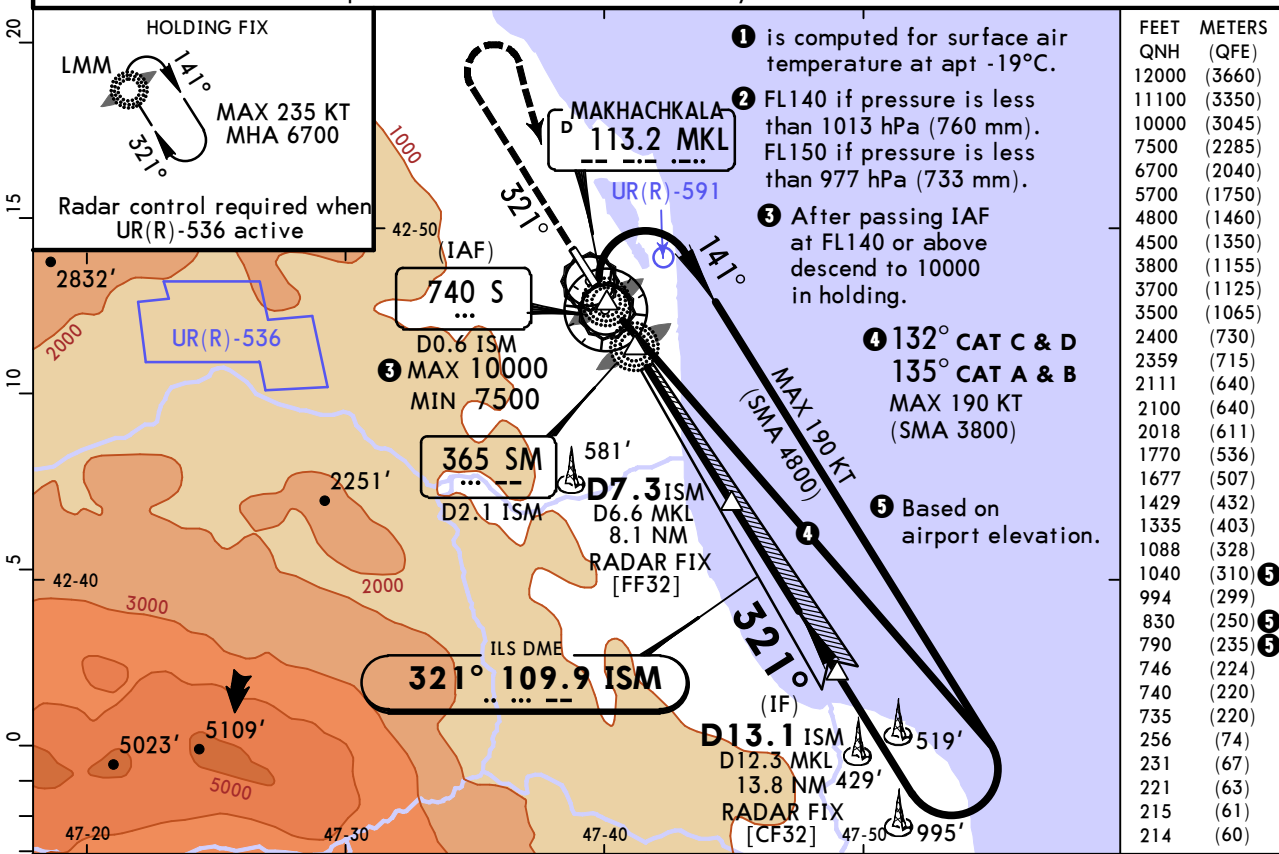
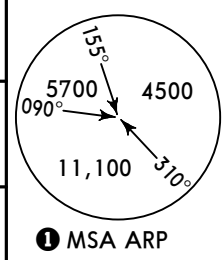
**1** R750m when a Flight Director or Autopilot or HUD to DA is not used.  
**2** VNAV DA(H) in lieu of MDA(H) depends on operator policy.

# URML/MCX UYTASH

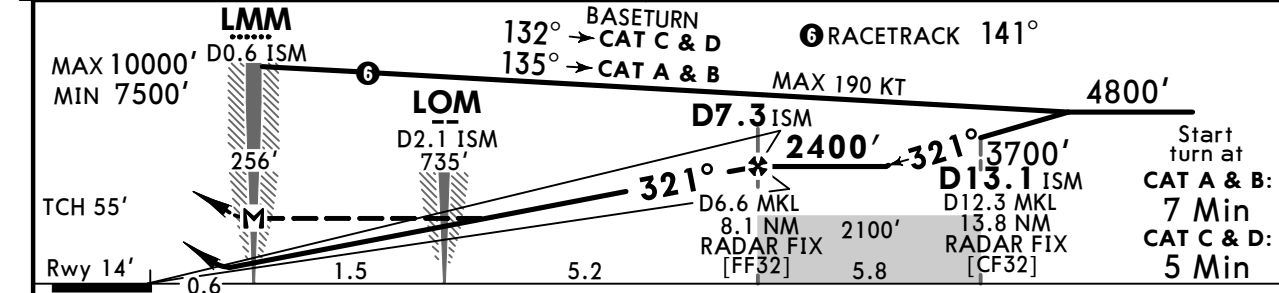
**JEPPESEN**  
17 OCT 25 **(11-7)**

# MAKHACHKALA, RUSSIA ILS X or LOC X Rwy 32

BRIEFING STRIP™	ATIS (Russian) <b>125.475 124.8</b>	MAKHACHKALA Approach <b>119.7</b>	MAKHACHKALA Radar (TWR/R) <b>121.3</b>	Start (TWR) <b>121.3</b>
	LOC ISM <b>109.9</b>	Final Apch Crs <b>321°</b>	D7.3 ISM <b>2400'</b> (2386')	ILS DA(H) Refer to Minimums
<b>MISSED APCH:</b> Climb on track 321° to 3500' or above, then turn RIGHT to S Lctr climbing to 4800' or above. MAX 215 KT. Do not turn before MAP.				
Alt Set: hPa (MM on req)		Rwy Elev: 1 hPa	Trans level: FL130 <b>2</b>	Trans alt: 12000'
1. DME or Radar control required. 2. ILS DME reads zero at rwy 32 threshold.				



ISM DME	2.2	3.2	4.3	5.4	6.5	MKL DME	2.2	3.2	4.3	5.4	6.5
ALTITUDE	746'	1088'	1429'	1770'	2111'	ALTITUDE	994'	1335'	1677'	2018'	2359'



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	215 KT MAX	MIN 3500'	321°
ILS GS or LOC Descent Angle	3.00°	372	478	531	637	743				
MAP at LMM/D0.6 ISM/Timing not authorized for defining the MAP.										

PANS OPS	STRAIGHT-IN LANDING		CIRCLE-TO-LAND	
	ILS	LOC (GS out)	Prohibited West of airport	
	A: 214' (200') DA(H) B: 215' (201')	CDFA 2 DA/MDA(H) 740' (726')		
	ALS out	ALS out	Max KT	MDA(H)
A			100	790' (774') V1500m
B	1 R550m	R1200m	135	830' (814') V1600m
C			180	1040' (1024') V2400m
D			205	1040' (1024') V3600m

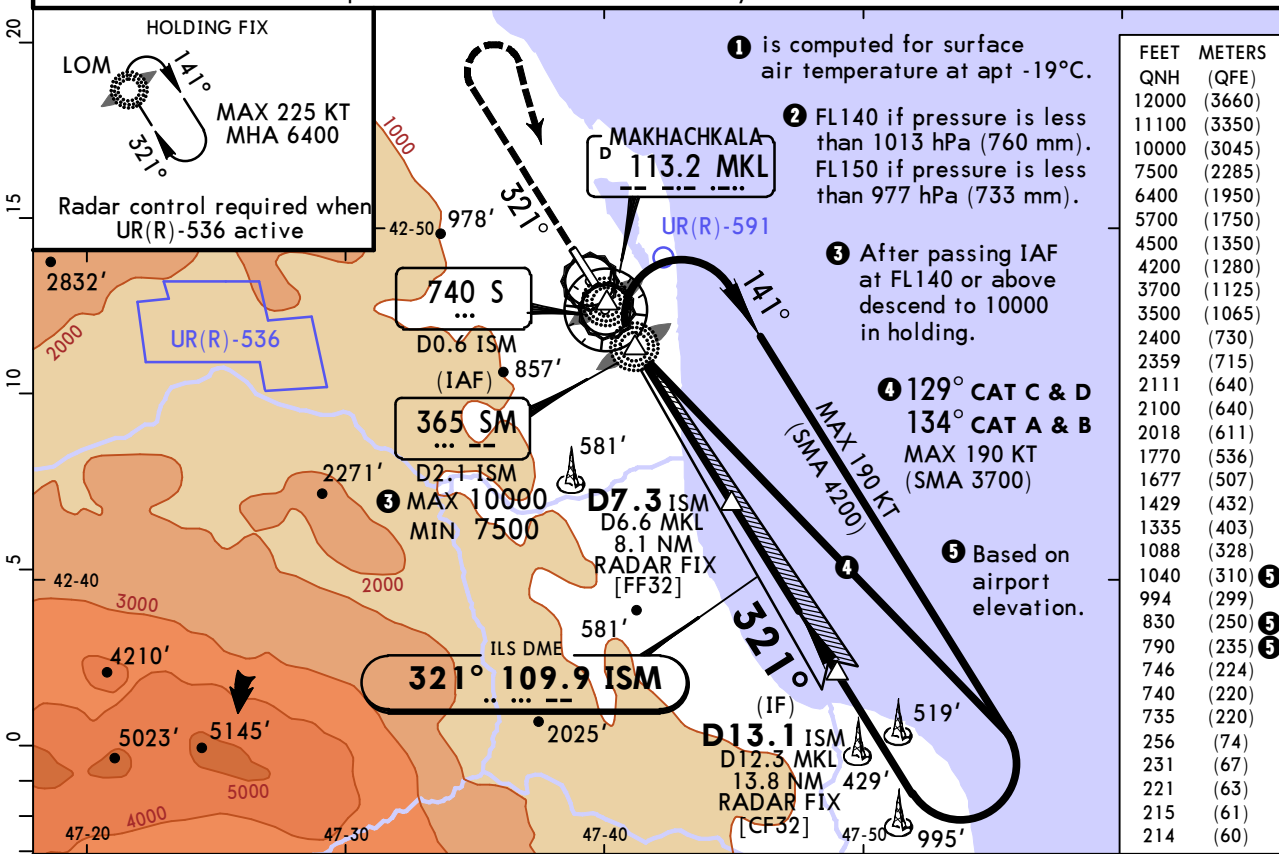
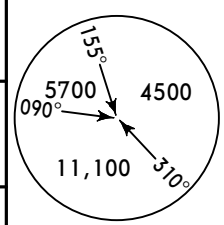
**1** R750m when a Flight Director or Autopilot or HUD to DA is not used.  
**2** VNAV DA(H) in lieu of MDA(H) depends on operator policy.

# URML/MCX UYTASH

**JEPPESSEN**  
17 OCT 25 **(11-8)**

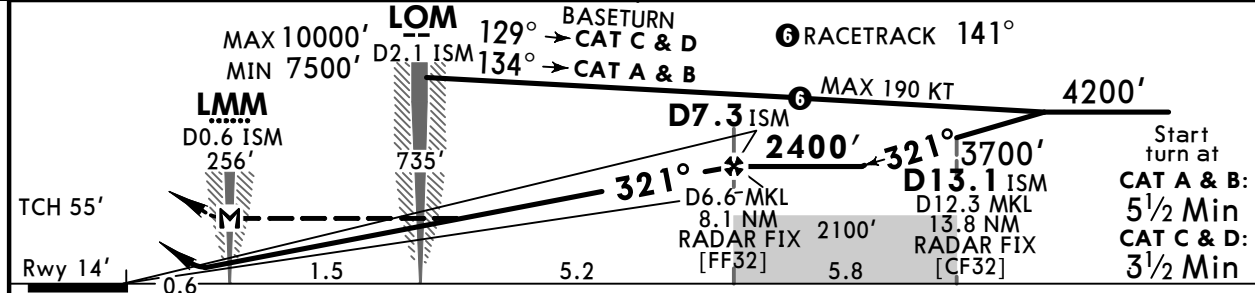
# MAKHACHKALA, RUSSIA ILS W or LOC W Rwy 32

BRIEFING STRIP™	ATIS (Russian) <b>125.475 124.8</b>	MAKHACHKALA Approach <b>119.7</b>	MAKHACHKALA Radar (TWR/R) <b>121.3</b>	Start (TWR) <b>121.3</b>
	LOC ISM <b>109.9</b>	Final Apch Crs <b>321°</b>	D7.3 ISM <b>2400'</b> (2386')	ILS DA(H) Refer to Minimums
<b>MISSED APCH:</b> Climb on track 321° to 3500' or above, then turn RIGHT to SM NDB climbing to 4200' or above. MAX 215 KT. Do not turn before MAP.				
Alt Set: hPa (MM on req) Rwy Elev: 1 hPa Trans level: FL130 <b>2</b> Trans alt: 12000'				
1. DME or Radar control required. 2. ILS DME reads zero at rwy 32 threshold.				



FEET	METERS
12000	(3660)
11100	(3350)
10000	(3045)
7500	(2285)
6400	(1950)
5700	(1750)
4500	(1350)
4200	(1280)
3700	(1125)
3500	(1065)
2400	(730)
2359	(715)
2111	(640)
2100	(640)
2018	(611)
1770	(536)
1677	(507)
1429	(432)
1335	(403)
1088	(328)
1040	(310)
994	(299)
830	(250)
790	(235)
746	(224)
740	(220)
735	(220)
256	(74)
231	(67)
221	(63)
215	(61)
214	(60)

ISM DME	2.2	3.2	4.3	5.4	6.5	MKL DME	2.2	3.2	4.3	5.4	6.5
ALTITUDE	746'	1088'	1429'	1770'	2111'	ALTITUDE	994'	1335'	1677'	2018'	2359'



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	215 KT MAX	MIN 3500'	321°
ILS GS or LOC Descent Angle	3.00°	372	478	531	637	743				

PANS OPS	STRAIGHT-IN LANDING		CIRCLE-TO-LAND		
	ILS	LOC (GS out)	Prohibited West of airport		
A	A: 214' (200') DA(H) B: 215' (201')	CDFA 2 DA/MDA(H) 740' (726')	R1500m	Max 100	
B	ALS out	ALS out		135	
C	1 R550m	R1200m		180	
D				205	
				MDA(H)	
				790' (774')	V1500m
				830' (814')	V1600m
				1040' (1024')	V2400m
				1040' (1024')	V3600m

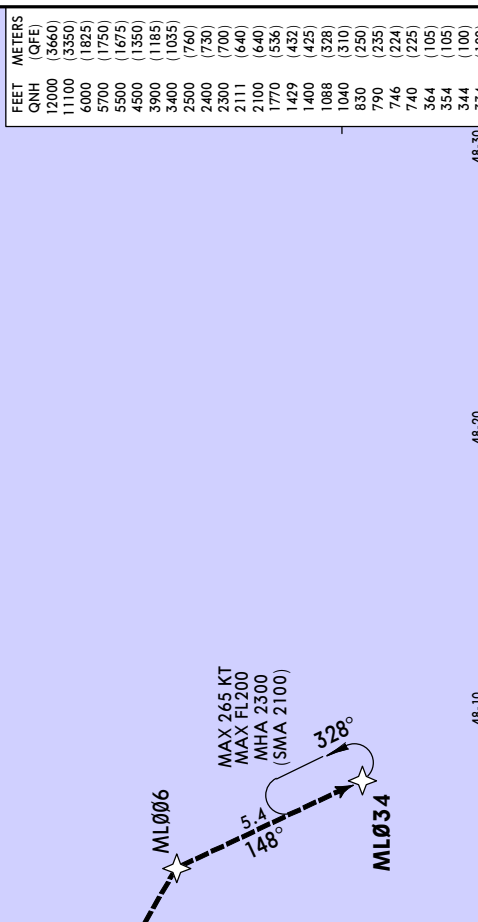
**1** R750m when a Flight Director or Autopilot or HUD to DA is not used.  
**2** VNAV DA(H) in lieu of MDA(H) depends on operator policy.



**URML/MCX**  
**UYTASH**  
**JEPESEN**  
**MAKHACHKALA, RUSSIA**  
**RNP Rwy 32**  
 12 DEC 25 (12-2) Eff 25 Dec

ATIS (Russian)	MAKHACHKALA Approach	MAKHACHKALA Radar (TWR/R)	Start (TWR)
125.475 (124.8)	119.7	121.3	121.3
RNAV	Final Appch Crs	LNAV/VNAV DA(H) Refer to Minimums	Apt Elev 16' Rwy 14'
	321°	2400' (2386')	
<b>MISSED APCH:</b> Climb on 321° to ML005, then turn RIGHT to ML006 then to ML034 climbing 6000'.			
MAX 215 KT.			
Alt Set: hPa (MM on req)		Rwy Elev: 1 hPa	Trans level: FL130
RNP apch.			Trans alt: 12000'

1. GNSS required. 2. Baro-VNAV not authorized below -31°C. 3. VPA exceeds 3.5° above 50°C.  
 1 is computed for surface air temperature at apt -19°C  
 2 FL140 if pressure is less than 1013 hPa (760 mm).  
 FL150 if pressure is less than 977 hPa (733 mm).



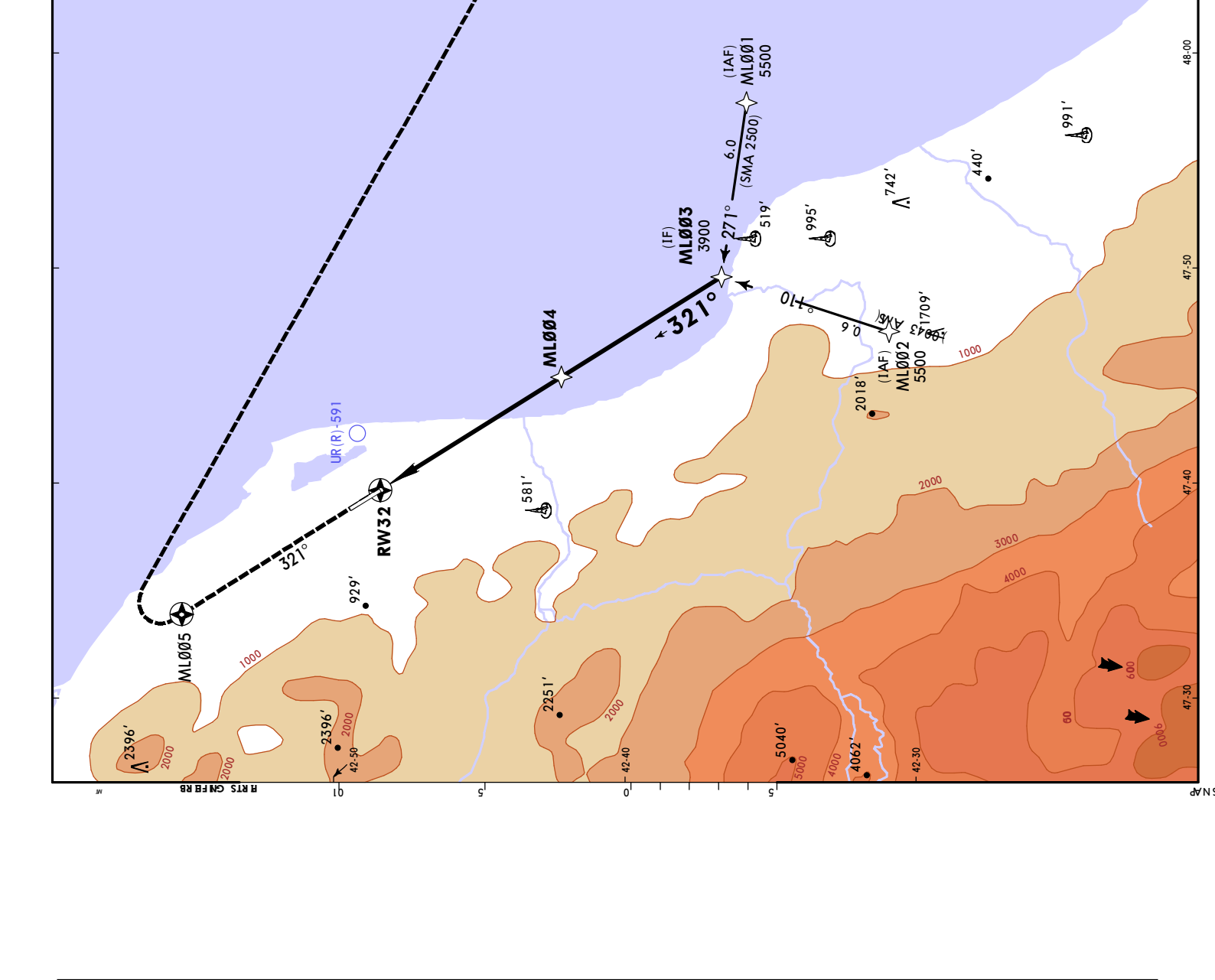
DIST to RW32	2.2	3.2	4.3	5.4	6.5
ALTITUDE	746'	1088'	1429'	1770'	2111'

Gnd speed-Kts	70	90	100	120	140	160
	372	478	531	637	743	849
Descent Angle	3.00°					
MAP at RW32	MAP not authorized for defining MAP.					

HIALS	PAPI	MAX	215 KT
			321°

LNNAV/VNAV		LNNAV	
A: 334' (320') C: 354' (340')		CDFA	
DA(H) B: 344' (330') D: 364' (350')		DA(MDA(H) 740' (726'))	
A	R750m	ALS out	R1400m
B	R800m	ALS out	R1500m
C	R900m	ALS out	R1600m
D	R900m	ALS out	R2400m

STRAIGHT-IN LANDING  
 Prohibited West of airport  
 MDA(H) 790' (774') V1500m  
 135 830' (814') V1600m  
 180 1040' (1024') V2400m  
 205 1040' (1024') V3600m



**URML/MCX**  
 UYTASH

17 OCT 25  
 12-40

**JEPPESSEN**  
 MAKHACHKALA Approach

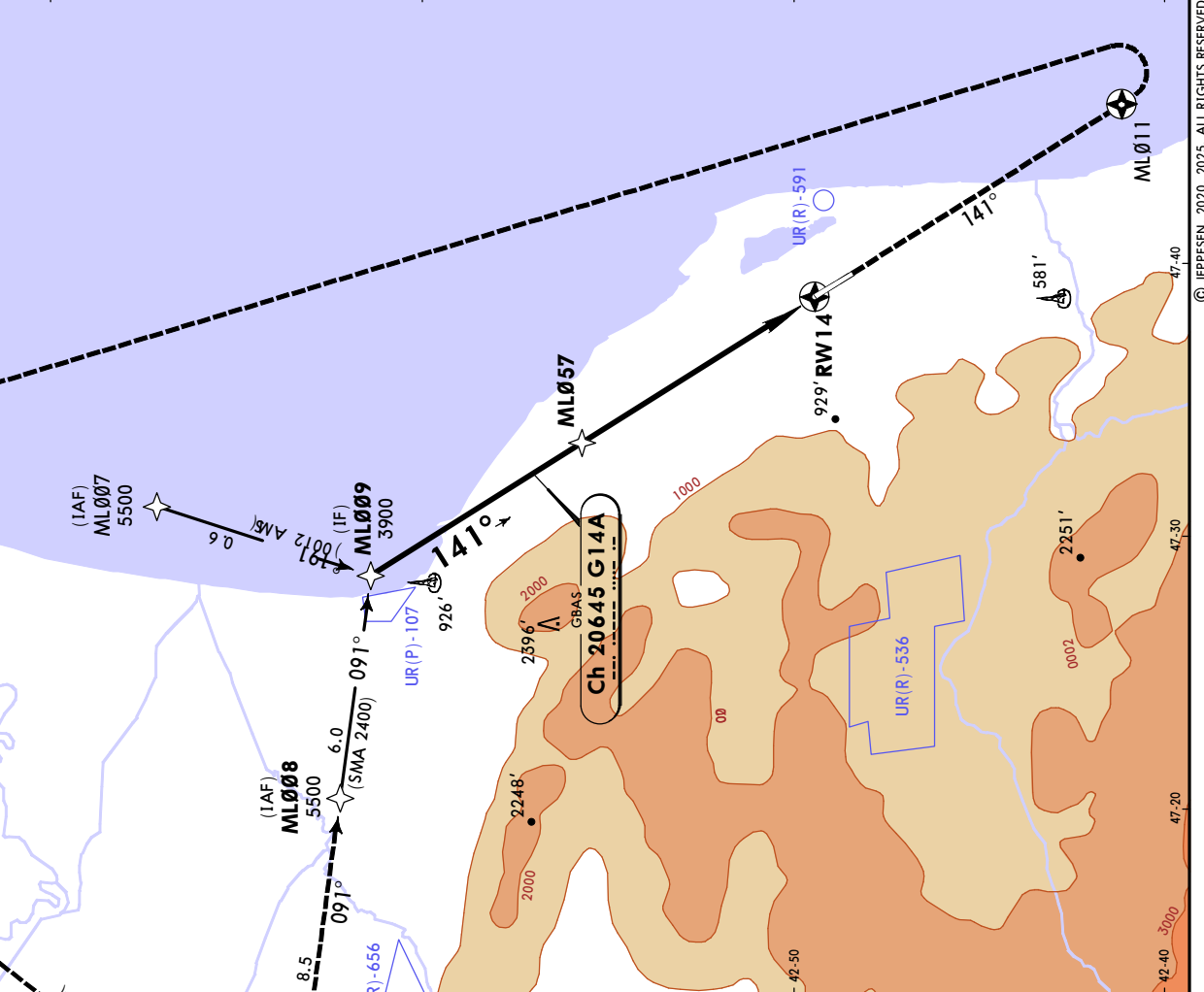
**MAKHACHKALA, RUSSIA**  
 GLS RWY 14

ATIS (Russian)	MAKHACHKALA Radar (TWR/R)	Start (TWR)
125.475	121.3	121.3
GBAS	ML057	
<b>Ch 20645</b>	DA(H)	Apt Elev 16'
<b>G14A</b>	2400' (2394')	Refer to Rwy 6'
MISSED APCH: Climb on 141° to ML011, then turn LEFT to ML012, then to ML051 climbing 5500' or above, then according to chart. MAX 215 KT.		
Alt Set: hPa (MM on req)	Rwy Elev: 0 hPa	Trans level: FL130
RNAV 1 for initial and missed approach.		Trans alt: 12000'



GNSS required.

① is computed for surface air temperature at apt - 19°C  
 ② FL140 if pressure is less than 1013 hPa (760 mm).  
 FL150 if pressure is less than 977 hPa (733 mm).



FEET	METERS
12000	(3660)
11100	(3350)
5700	(1750)
5500	(1675)
4500	(1350)
3900	(1160)
3200	(975)
2400	(730)
2100	(640)
1800	(550)
1040	(310)
830	(250)
790	(235)
238	(71)
228	(68)
220	(65)
207	(62)

14.2	7.5	7.5	6.7	6.7	7.5	0
3900'	141°	2400'	1800'	1800'	1800'	Rwy 6'
ML009		ML057				
RWY 14 TCH 50'						
215 KT MAX on 141°						

70	90	100	120	140	160
3.00°	372	478	531	637	743
STRAIGHT-IN LANDING GLS					
DA(H) A: 207' (201') C: 228' (222') B: 220' (214') D: 238' (232')					
R1200m					

CIRCLE-TO-LAND  
 Prohibited West of airport

Max Kts	MDA(H)
100	790' (774') V1500m
135	830' (814') V1600m
180	1040' (1024') V2400m
205	1040' (1024') V3600m

**URML/MCX**  
**UYTASH**  
**JEPPESEN**  
**MAKHACHKALA, RUSSIA**  
**GLS Rwy 32**  
 17 OCT 25 (12-41)

ATIS (Russian) 125.475 124.8	MAKHACHKALA Approach 119.7	MAKHACHKALA Radar (TWR/R) 121.3	Start (TWR) 121.3
GBAS Ch 21056 G32A	Final Apch Crs 321°	ML004 2400' (2386')	GLS DA(H) Refer to Minimums Appt Elev 16' Rwy 14'

**MISSED APCH:** Climb on 321° to ML005, then turn RIGHT to ML006 then to ML034 climbing 6000'.  
 MAX 215 KT.

Alt Set: hPa (MM on req) Rwy Elev: 1 hPa Trans level: FL130  
 RNAV 1 for initial and missed approach.  
 GNSS required.

Trans alt: 12000'

① is computed for surface air temperature at apt - 19°C  
 ② FL140 if pressure is less than 1013 hPa (760 mm).  
 FL150 if pressure is less than 977 hPa (733 mm).

FEET (QFE)  
 12000 (3660)  
 11100 (3350)  
 6000 (1825)  
 5700 (1750)  
 5500 (1675)  
 4500 (1350)  
 3900 (1185)  
 3400 (1035)  
 2500 (760)  
 2400 (730)  
 2300 (700)  
 2100 (640)  
 1400 (425)  
 1040 (313)  
 830 (250)  
 790 (235)  
 231 (67)  
 221 (65)  
 215 (61)  
 214 (60)

MAX 265 KT  
 MAX FL200  
 MHA 2300  
 (SMA 2100)

328°  
 148°  
 5.4

**RW32**  
 TCH 50'  
 Rwy 14'

ML003  
 3900'

ML004  
 2400'

ML005  
 215 KT  
 MAX  
 on 321°

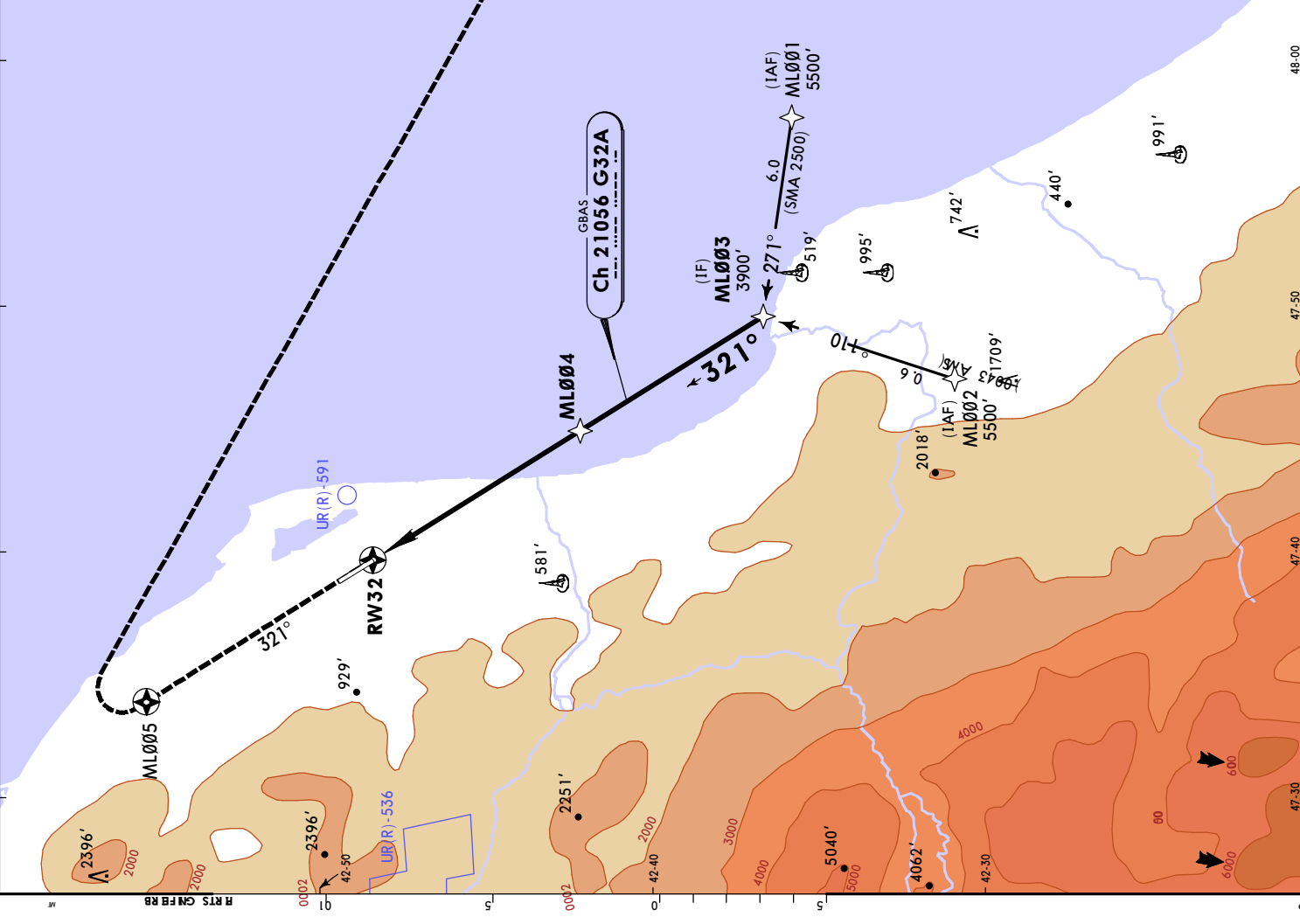
GLS	70	90	100	120	140	160
Gnd speed-Kts	372	478	531	637	743	849
GLide Path Angle	3.00°					

STRAIGHT-IN LANDING  
 DA(H) A: 214' (200') C: 221' (207')  
 B: 215' (201') D: 231' (217')

CIRCLE-TO-LAND  
 Prohibited West of airport

A	R550m	ALS out
B		
C		
D		

Max Kts  
 100 135 180 205  
 MDA(H)  
 790' (774') V1500m  
 830' (814') V1600m  
 1040' (1024') V2400m  
 1040' (1024') V3600m

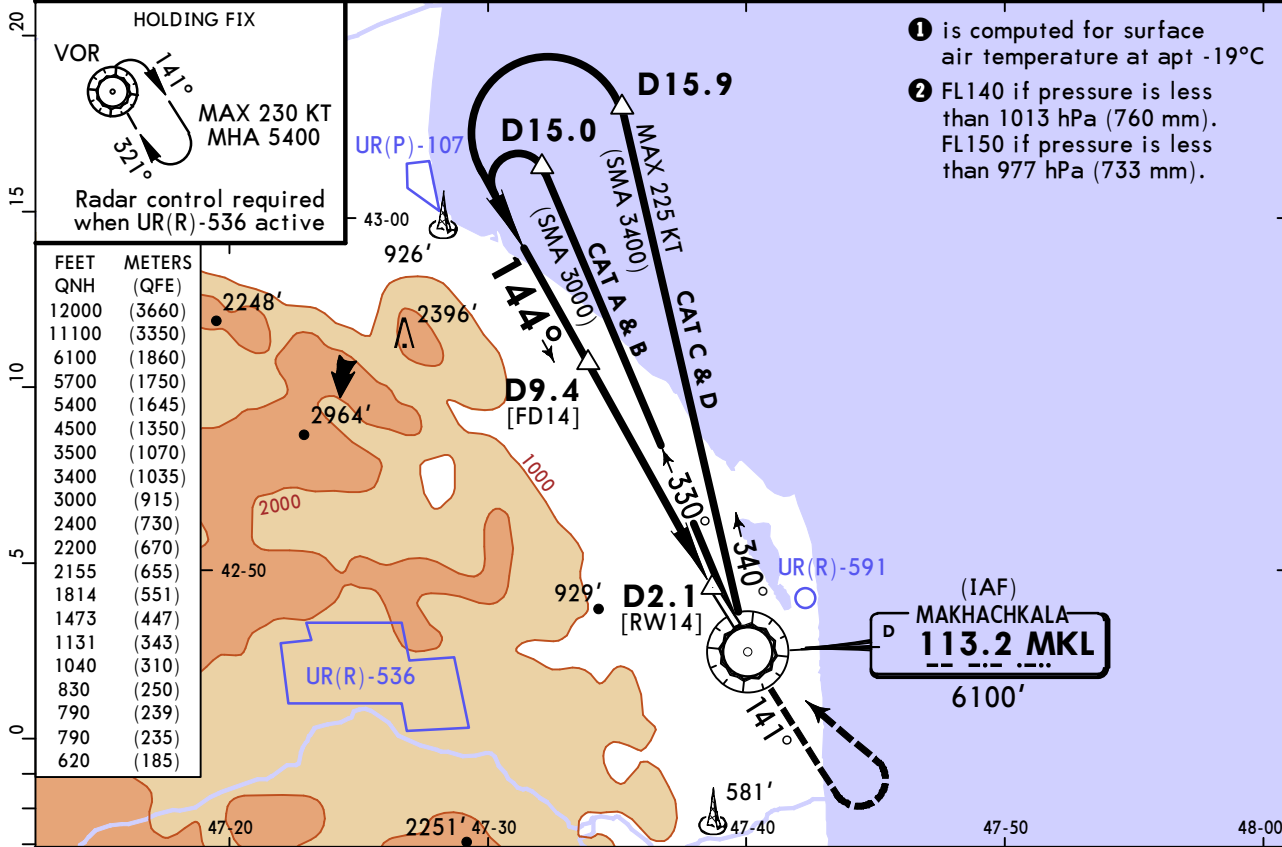
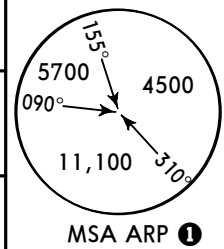


# URML/MCX UYTASH

**JEPPESEN**  
12 DEC 25 (13-1) Eff 25 Dec

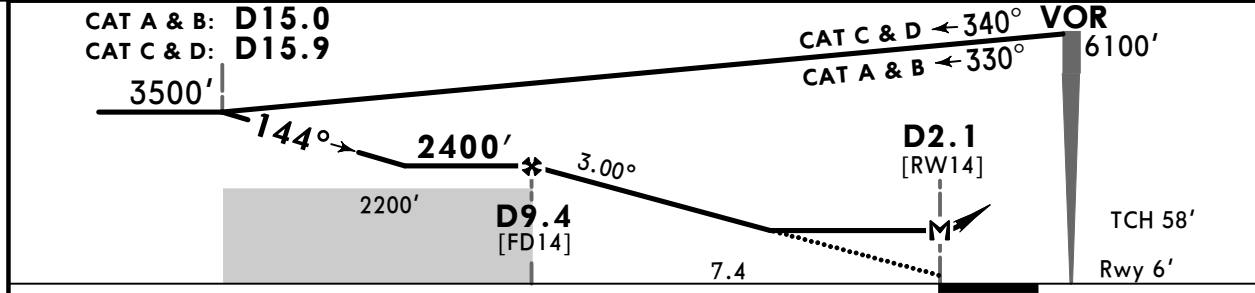
# MAKHACHKALA, RUSSIA VOR Rwy 14

BRIEFING STRIP™	ATIS (Russian) <b>125.475 124.8</b>	MAKHACHKALA Approach <b>119.7</b>	MAKHACHKALA Radar (TWR/R) <b>121.3</b>	Start (TWR) <b>121.3</b>
	VOR MKL <b>113.2</b>	Final Apch Crs <b>144°</b>	D9.4 <b>2400'</b> (2394')	DA/MDA(H) <b>620'</b> (614')
<b>MISSED APCH:</b> Climb on 141° to 3500' or above, then turn LEFT to VOR climbing to 5400' or above. Turn before passing MAP is PROHIBITED.				
Alt Set: hPa (MM on req)      Rwy Elev: 0 hPa      Trans level: FL130 ②      Trans alt: 12000'				
1. DME required. 2. Final approach track offset 3° from rwy centerline.				



- ① is computed for surface air temperature at apt -19°C
- ② FL140 if pressure is less than 1013 hPa (760 mm). FL150 if pressure is less than 977 hPa (733 mm).

MKL DME	8.6	7.6	6.5	5.4	4.3
ALTITUDE	2155'	1814'	1473'	1131'	790'



Gnd speed-KT	70	90	100	120	140	160	PAPI-L MIN 3500' on 141°
Descent Angle 3.00°	372	478	531	637	743	849	
MAP at D2.1							

Timing not authorized for defining the MAP.

PANS OPS	<b>Std</b> STRAIGHT-IN LANDING		CIRCLE-TO-LAND Prohibited West of airport		
	CDFA DA/MDA(H) <b>620'</b> (614')				
	A	R1500m		Max KT 100	MDA(H) 790' (774') V1500m
	B	R1500m		135	830' (814') V1600m
	C	R2400m		180	1040' (1024') V2400m
D	R2400m		205	1040' (1024') V3600m	

① VNAV DA(H) in lieu of MDA(H) depends on operator policy.

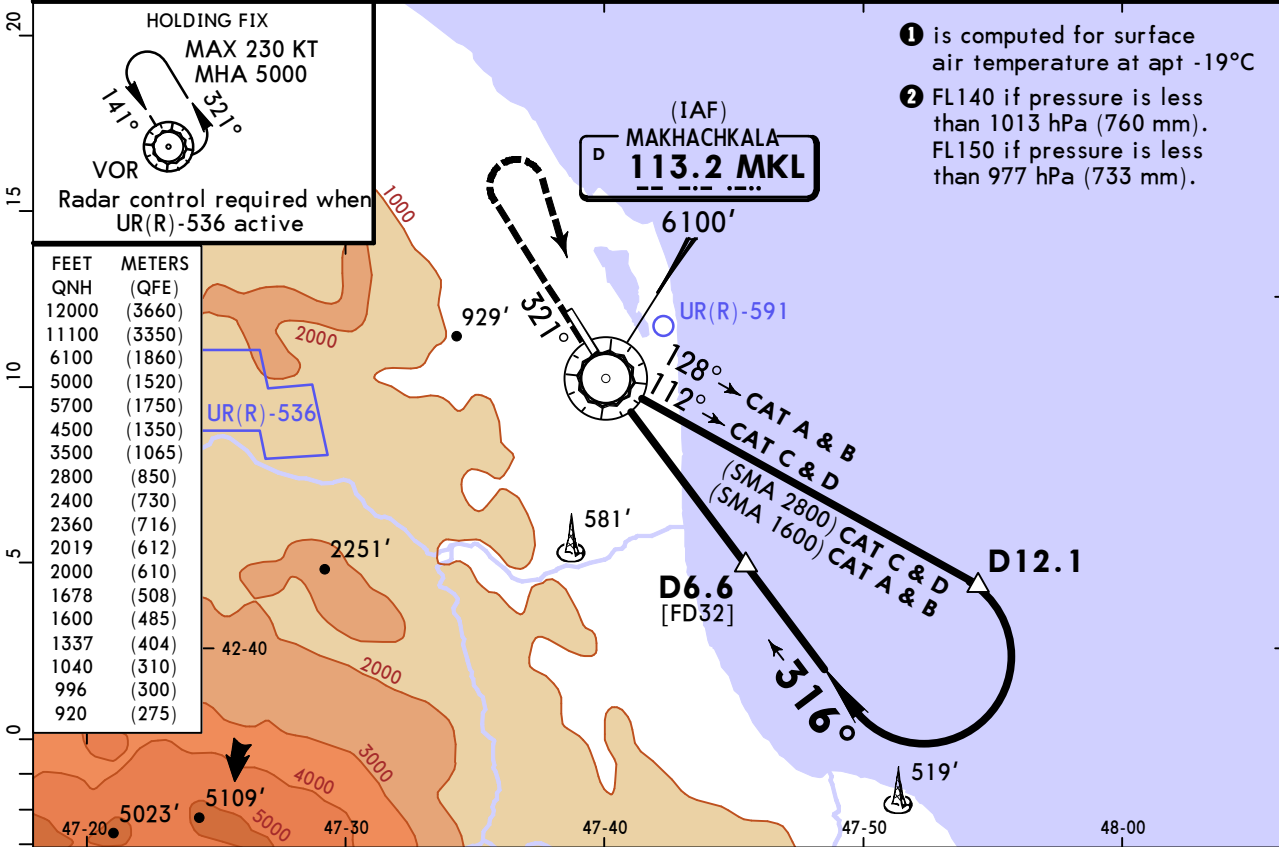
# URML/MCX UYTASH

**JEPPESEN**  
12 DEC 25 **(13-2)** Eff 25 Dec

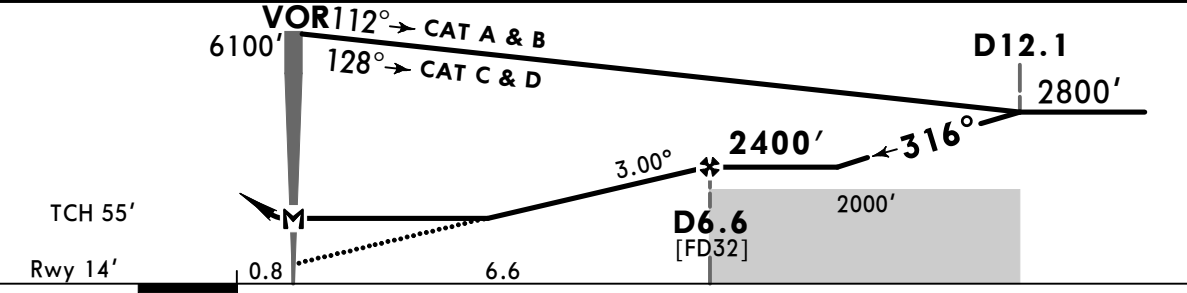
# MAKHACHKALA, RUSSIA VOR Rwy 32

BRIEFING STRIP™	ATIS 125.475 (Russian 124.8)	MAKHACHKALA Approach 119.7	MAKHACHKALA Radar (TWR/R) 121.3	Start (TWR) 121.3	
	VOR MKL <b>113.2</b>	Final Apch Crs <b>316°</b>	D6.6 <b>2400'</b> (2386')	DA/MDA(H) <b>920'</b> (906')	
<b>MISSED APCH:</b> Climb on 321° to 3500' or above, then turn RIGHT to VOR climbing to 5000' or above. Turn before passing MAP is PROHIBITED.					
Alt Set: hPa (MM on req)      Rwy Elev: 1 hPa      Trans level: FL130 ②      Trans alt: 12000'					

1. DME required. 2. Final approach track offset 5° from rwy centerline.



MKL DME	2.2	3.2	4.3	5.4	6.5
ALTITUDE	996'	1337'	1678'	2019'	2360'



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI MIN 3500' on 321°
Descent Angle 3.00°	372	478	531	637	743	849	
MAP at VOR	Timing not authorized for defining MAP.						

PANS OPS	<b>Std</b> STRAIGHT-IN LANDING			CIRCLE-TO-LAND		
	CDFA			Prohibited West of airport		
	① DA/MDA(H) 920' (906')			ALS out		
	A	R1500m			Max Kts	MDA(H)
	B	R2400m			100	920' (904') V1500m
C				135	920' (904') V1600m	
D				180	1040' (1024') V2400m	
				205	1040' (1024') V3600m	

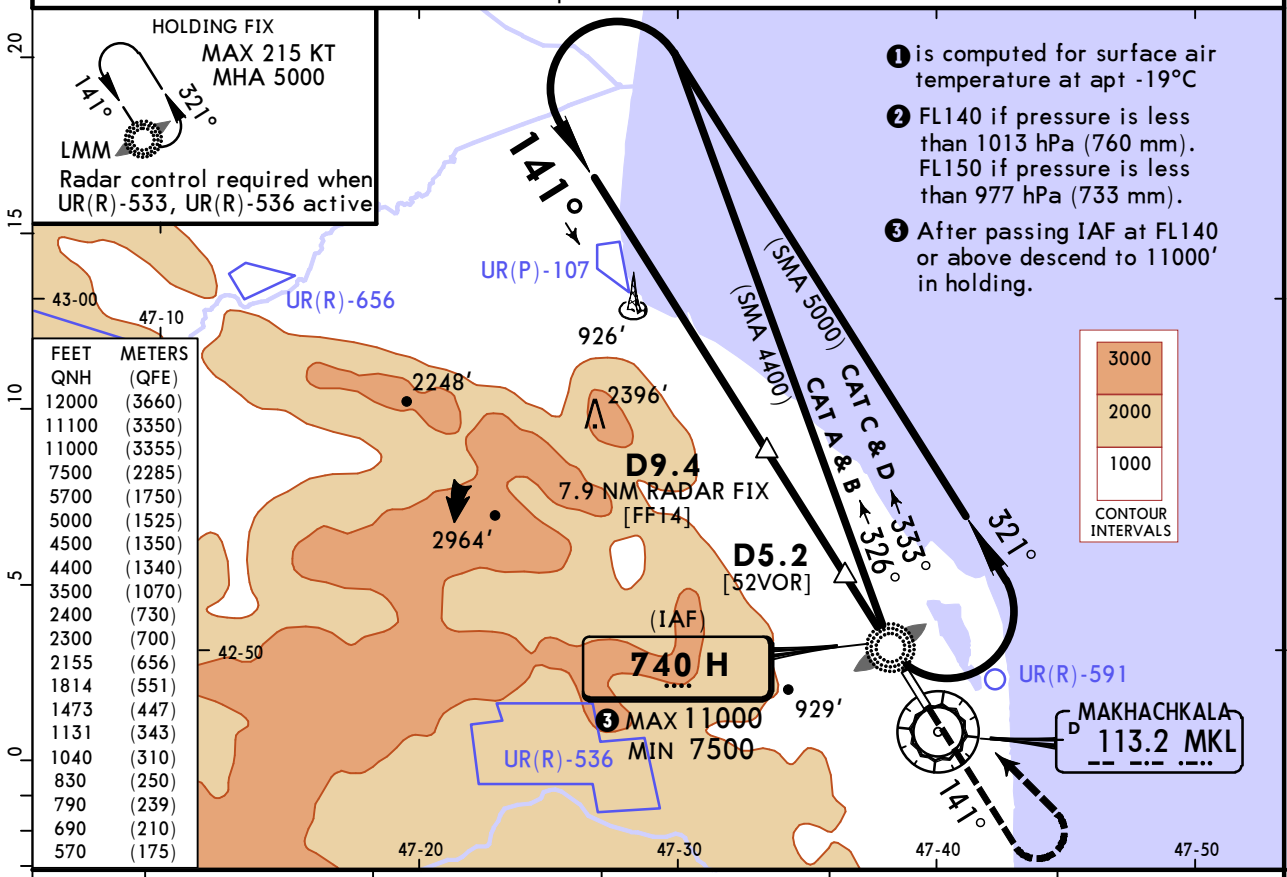
① VNAV DA(H) in lieu of MDA(H) depends on operator policy.

# URML/MCX UYTASH

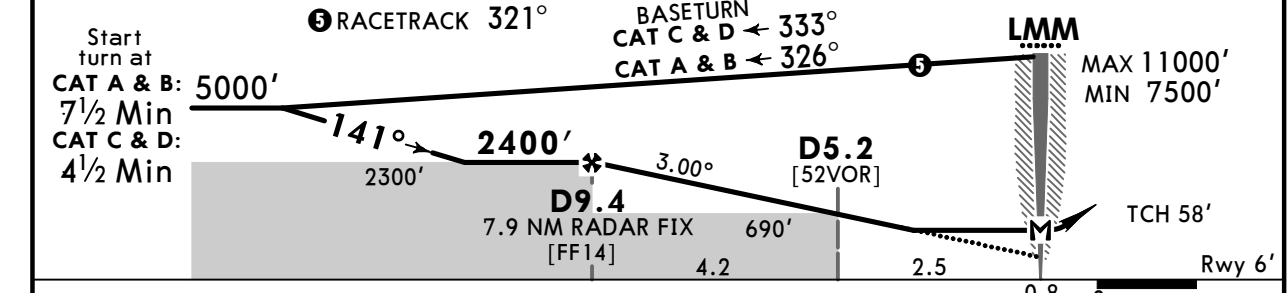
**JEPPESSEN**  
17 OCT 25 (16-1)

# MAKHACHKALA, RUSSIA NDB Z Rwy 14

BRIEFING STRIP™	ATIS 125.475 (Russian) 124.8	MAKHACHKALA Approach 119.7	MAKHACHKALA Radar (TWR/R) 121.3	Start (TWR) 121.3	
	Lctr H <b>740</b>	Final Apch Crs <b>141°</b>	<b>D9.4</b> <b>2400'</b> (2394')	DA/MDA(H) (CONDITIONAL) <b>570'</b> (564')	
<b>MISSED APCH:</b> Climb on 141° to 3500' or above, then turn LEFT to Lctr climbing to 5000' or above. Turn before passing MAP is prohibited.					<b>1</b> MSA ARP
Alt Set: hPa (MM on req)		Rwy Elev: 0 hPa	Trans level: FL130 <b>2</b>	Trans alt: 12000'	
1. TAR reads zero at ARP. 2. DME or radar required.					



MKL DME	8.6	7.6	6.5	5.4	4.3
ALTITUDE	2155'	1814'	1473'	1131'	790'



MAP at LMM/Timing not authorized for defining the MAP.	MIN 3500' on 141°
--	-------------------

PANS OPS	STRAIGHT-IN LANDING		CIRCLE-TO-LAND	
	with D5.2 CDFA	w/o D5.2 CDFA	Prohibited West of airport	
	<b>1</b> DA/MDA(H) <b>570'</b> (564')	<b>1</b> DA/MDA(H) <b>690'</b> (684')	Max KT	MDA(H)
A	ALS out	ALS out	100	790' (774') V1500m
B	R1500m	R1500m	135	830' (814') V1600m
C	R2400m	R2400m	180	1040' (1024') V2400m
D			205	1040' (1024') V3600m

# URML/MCX UYTASH

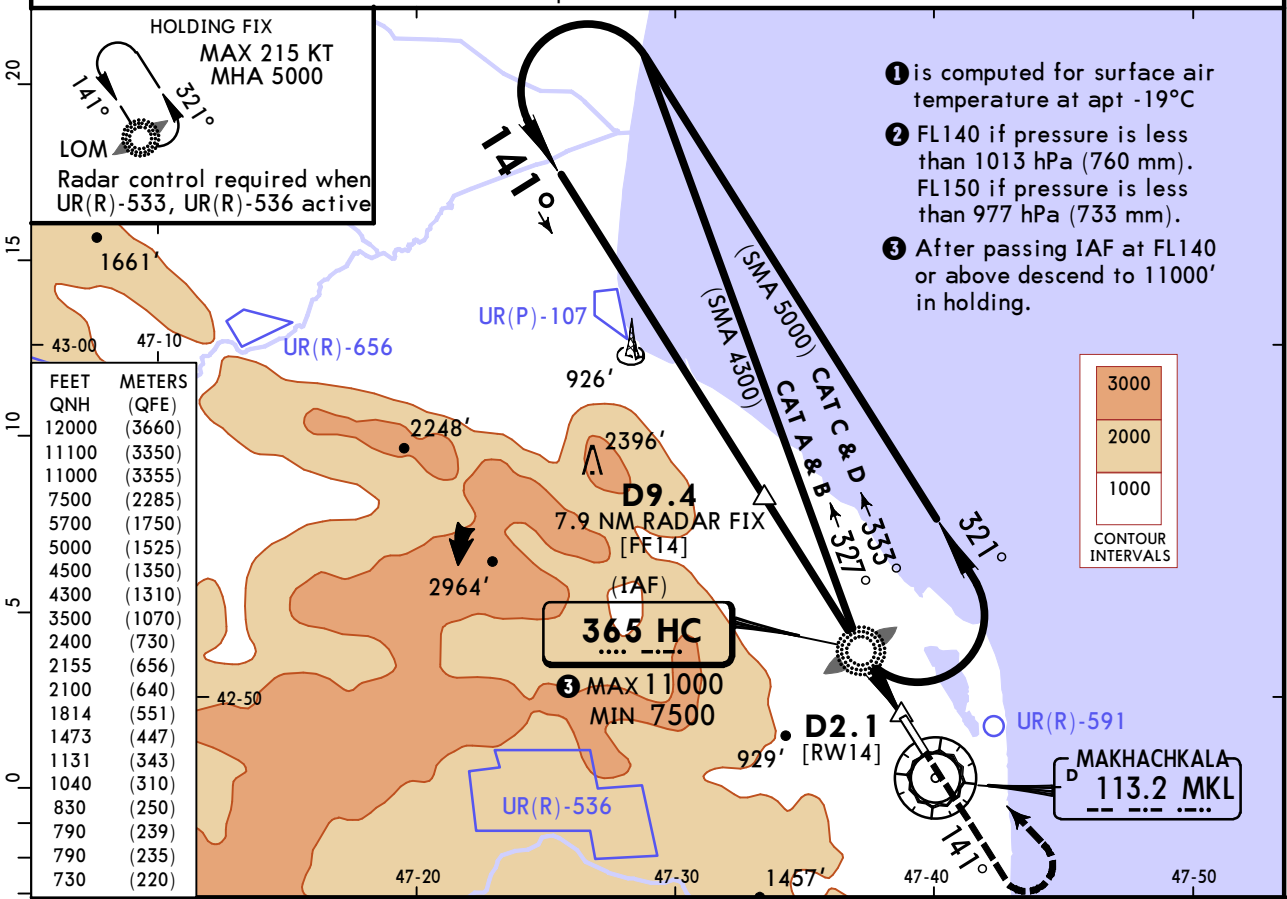
**JEPPESEN**  
17 OCT 25 **(16-2)**

# MAKHACHKALA, RUSSIA NDB Y Rwy 14

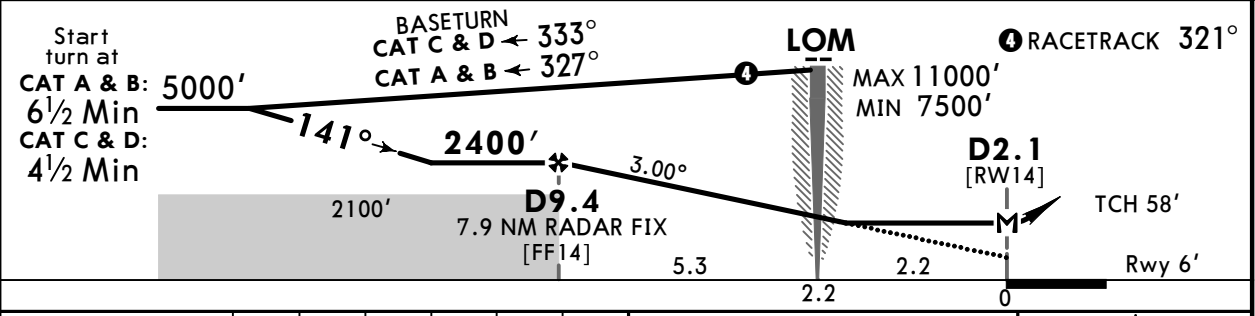
BRIEFING STRIP™	ATIS (Russian) <b>125.475 124.8</b>	MAKHACHKALA Approach <b>119.7</b>	MAKHACHKALA Radar (TWR/R) <b>121.3</b>	Start (TWR) <b>121.3</b>	<p>① MSA ARP</p>
	NDB HC <b>365</b>	Final Apch Crs <b>141°</b>	D9.4 <b>2400'</b> (2394')	DA/MDA(H) <b>730'</b> (724')	

**MISSED APCH:** Climb on 141° to 3500' or above, then turn LEFT to HC NDB climbing to 5000' or above. Turn before passing MAP is prohibited.

Alt Set: hPa (MM on req) Rwy Elev: 0 hPa Trans level: FL130 ② Trans alt: 12000'  
1. TAR reads zero at ARP. 2. DME or radar required.



MKL DME	8.6	7.6	6.5	5.4	4.3
ALTITUDE	2155'	1814'	1473'	1131'	790'



Gnd speed-Kts	70	90	100	120	140	160	MIN <b>3500'</b> on <b>141°</b>
Descent Angle 3.00°	372	478	531	637	743	849	
MAP at D2.1							
D9.4 to MAP	7.5	6:26	5:00	4:30	3:45	3:13	

PANS OPS	<b>Std</b> STRAIGHT-IN LANDING		CIRCLE-TO-LAND	
	CDFA			
	DA/MDA(H) <b>730'</b> (724')		Prohibited West of airport	
	ALS out		Max KT	MDA(H)
	A	R1500m	100	790' (774') V1500m
B		135	830' (814') V1600m	
C	R2400m	180	1040' (1024') V2400m	
D		205	1040' (1024') V3600m	

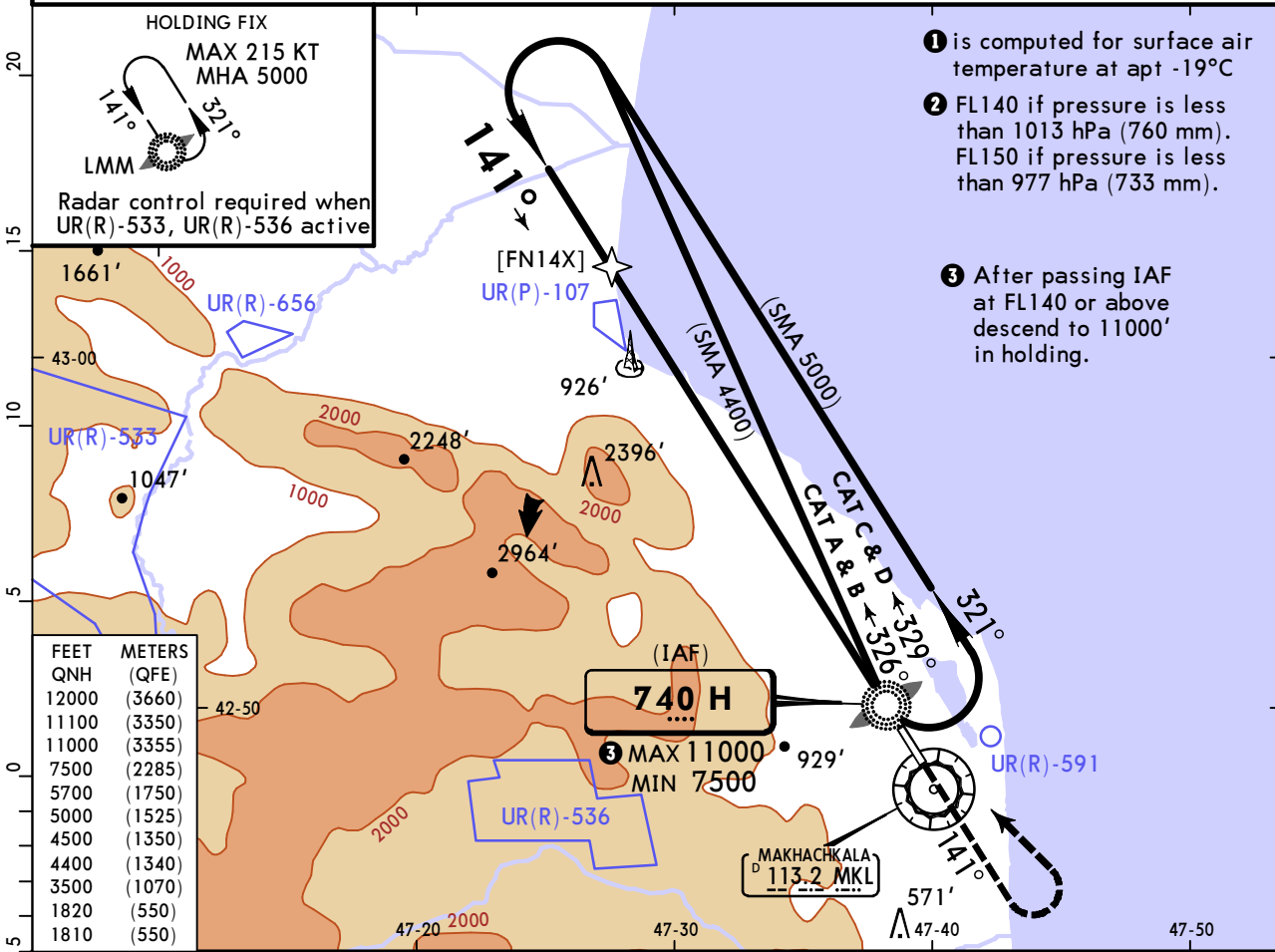
# URML/MCX UYTASH

**JEPPESSEN**  
17 OCT 25 **(16-3)**

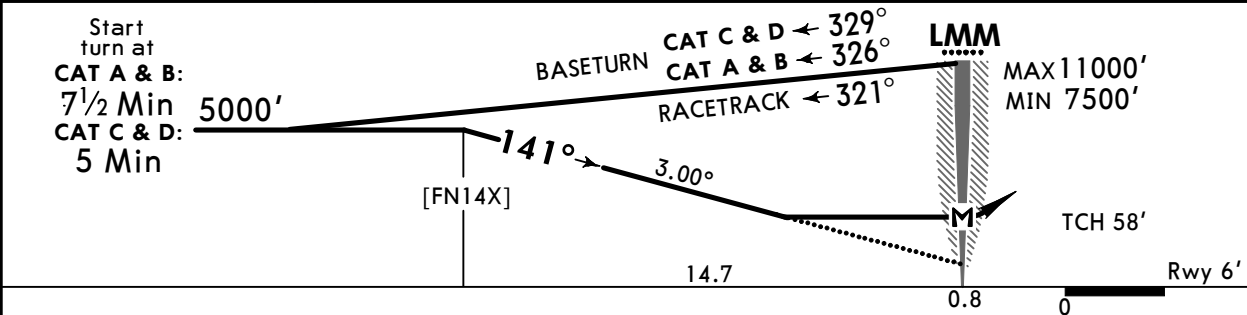
# MAKHACHKALA, RUSSIA NDB X Rwy 14

BRIEFING STRIP™	ATIS (Russian) <b>125.475 124.8</b>	MAKHACHKALA Approach <b>119.7</b>	MAKHACHKALA Radar (TWR/R) <b>121.3</b>	Start (TWR) <b>121.3</b>	<p><b>1</b> MSA ARP</p>
	Lctr H <b>740</b>	Final Apch Crs <b>141°</b>	[FN14X] <b>5000'</b> (4994')	DA/MDA(H) <b>1810'</b> (1804')	
<b>MISSED APCH:</b> Climb on 141° to 3500' or above, then turn LEFT to Lctr climbing to 5000' or above. Turn before passing MAP is prohibited.					

Alt Set: hPa (MM on req)      Rwy Elev: 0 hPa      Trans level: FL130 **2**      Trans alt: 12000'



- 1** is computed for surface air temperature at apt -19°C
- 2** FL140 if pressure is less than 1013 hPa (760 mm). FL150 if pressure is less than 977 hPa (733 mm).
- 3** After passing IAF at FL140 or above descend to 11000' in holding.



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

MIN **3500'** on **141°**

PANS OPS	<b>Std</b>	STRAIGHT-IN LANDING		CIRCLE-TO-LAND		
		CDFA		Prohibited West of airport		
		DA/MDA(H) <b>1810'</b> (1804')		Max	MDA(H)	
	A	R1500m		100	1820'	V1500m
	B	R1500m		135	1820'	V1600m
C	R2400m		180	1820'	V2400m	
D	R2400m		205	1820'	V3600m	

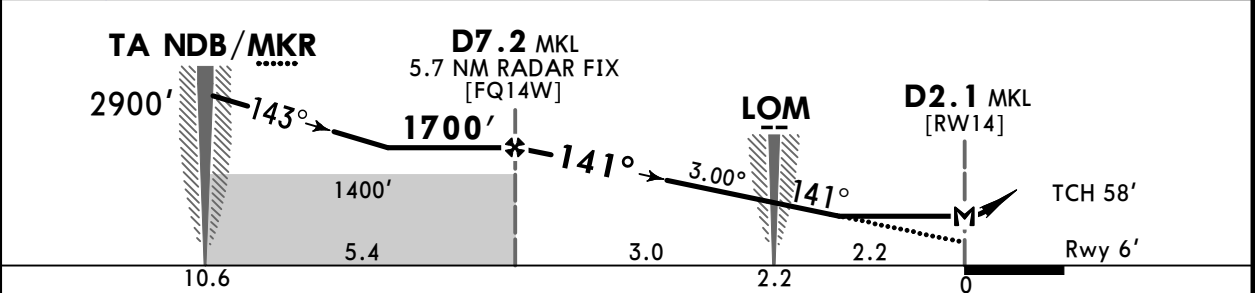
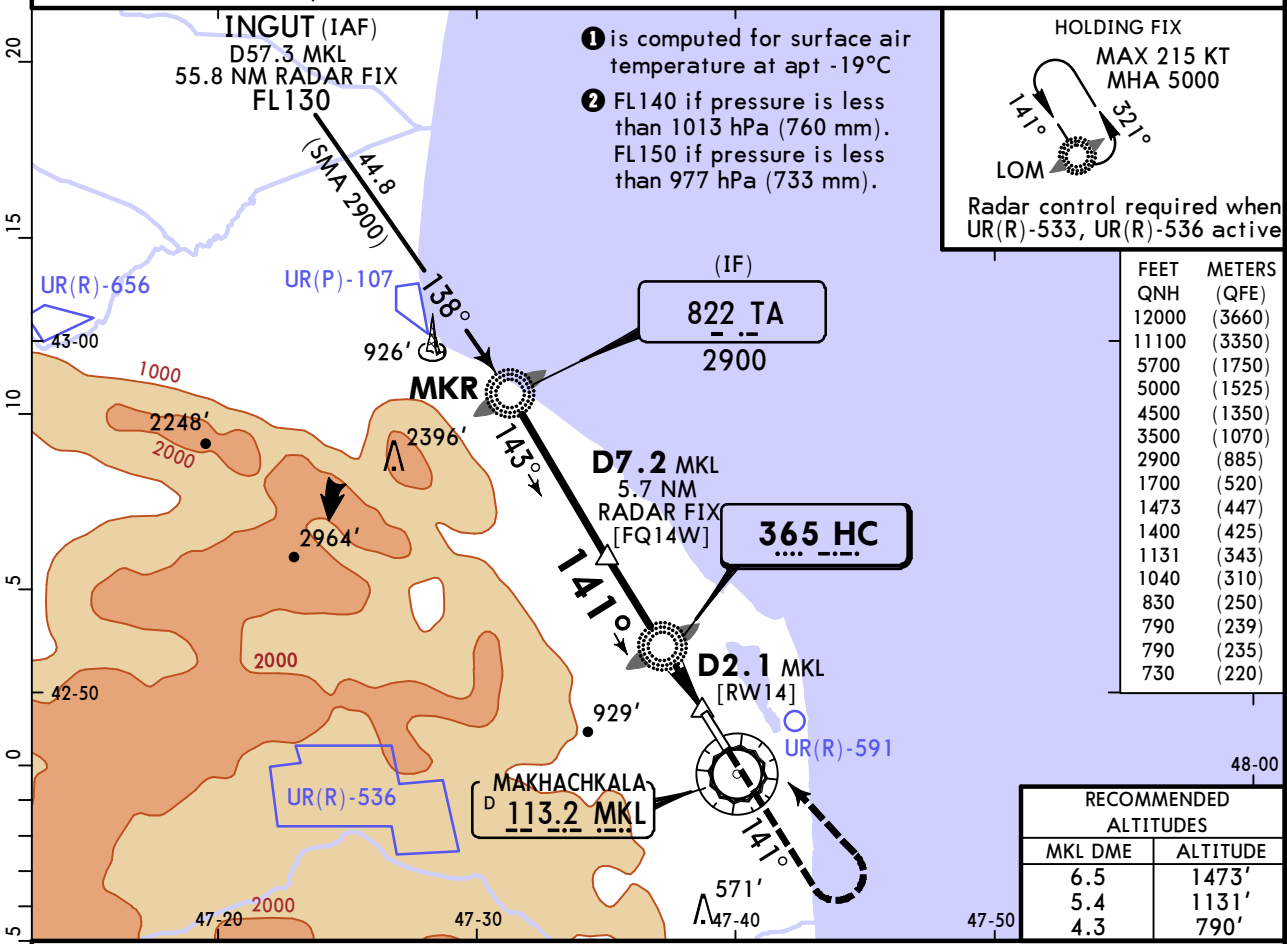
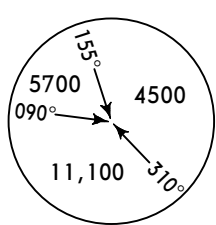
**1** VNAV DA(H) in lieu of MDA(H) depends on operator policy.  
CHANGES: Bearing, timing, lights. © JEPPESSEN, 2020, 2025. ALL RIGHTS RESERVED.

# URML/MCX UYTASH

**JEPPESEN**  
17 OCT 25 **(16-4)**

# MAKHACHKALA, RUSSIA NDB W Rwy 14

ATIS (Russian) <b>125.475 124.8</b>		MAKHACHKALA Approach <b>119.7</b>	MAKHACHKALA Radar (TWR/R) <b>121.3</b>	Start (TWR) <b>121.3</b>
NDB HC <b>365</b>	Final Apch Crs <b>141°</b>	<b>D7.2 MKL</b> <b>1700'</b> (1694')	DA/MDA(H) <b>730'</b> (724')	Apt Elev 16' Rwy 6'
<b>MISSED APCH:</b> Climb on 141° to 3500' or above, then turn LEFT to HC NDB climbing to 5000' or above. Turn before passing MAP is prohibited.				
Alt Set: hPa (MM on req)		Rwy Elev: 0 hPa	Trans level: FL130 <b>2</b>	Trans alt: 12000'
DME or Radar control required.				



Gnd speed-Kts	70	90	100	120	140	160	MIN <b>3500'</b> on <b>141°</b>
Descent Angle 3.00°	372	478	531	637	743	849	
MAP at D2.1 MKL	5.2	4:27	3:28	3:07	2:36	2:14	
D7.2 MKL to MAP	5.2	4:27	3:28	3:07	2:36	2:14	1:57

PANS OPS	<b>Std</b> STRAIGHT-IN LANDING		CIRCLE-TO-LAND Prohibited West of airport	
	CDFA <b>DA/MDA(H) 730'</b> (724')			
	A	R1500m	Max 100	MDA(H) <b>790'</b> (774') V1500m
	B	R1500m	135	<b>830'</b> (814') V1600m
	C	R2400m	180	<b>1040'</b> (1024') V2400m
D	R2400m	205	<b>1040'</b> (1024') V3600m	

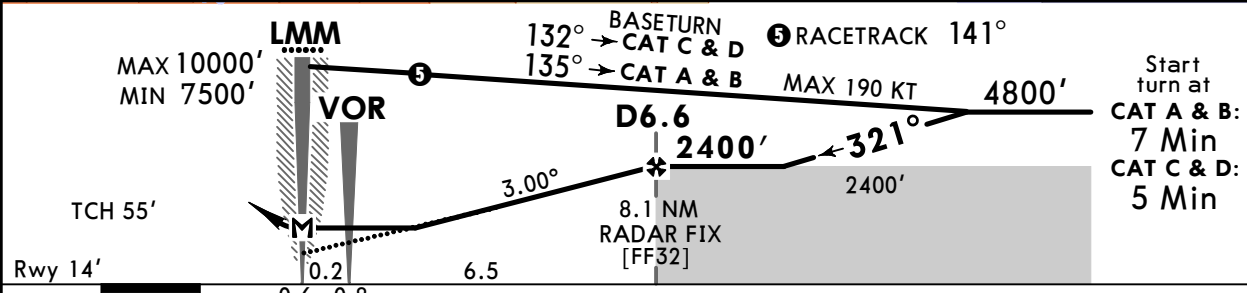
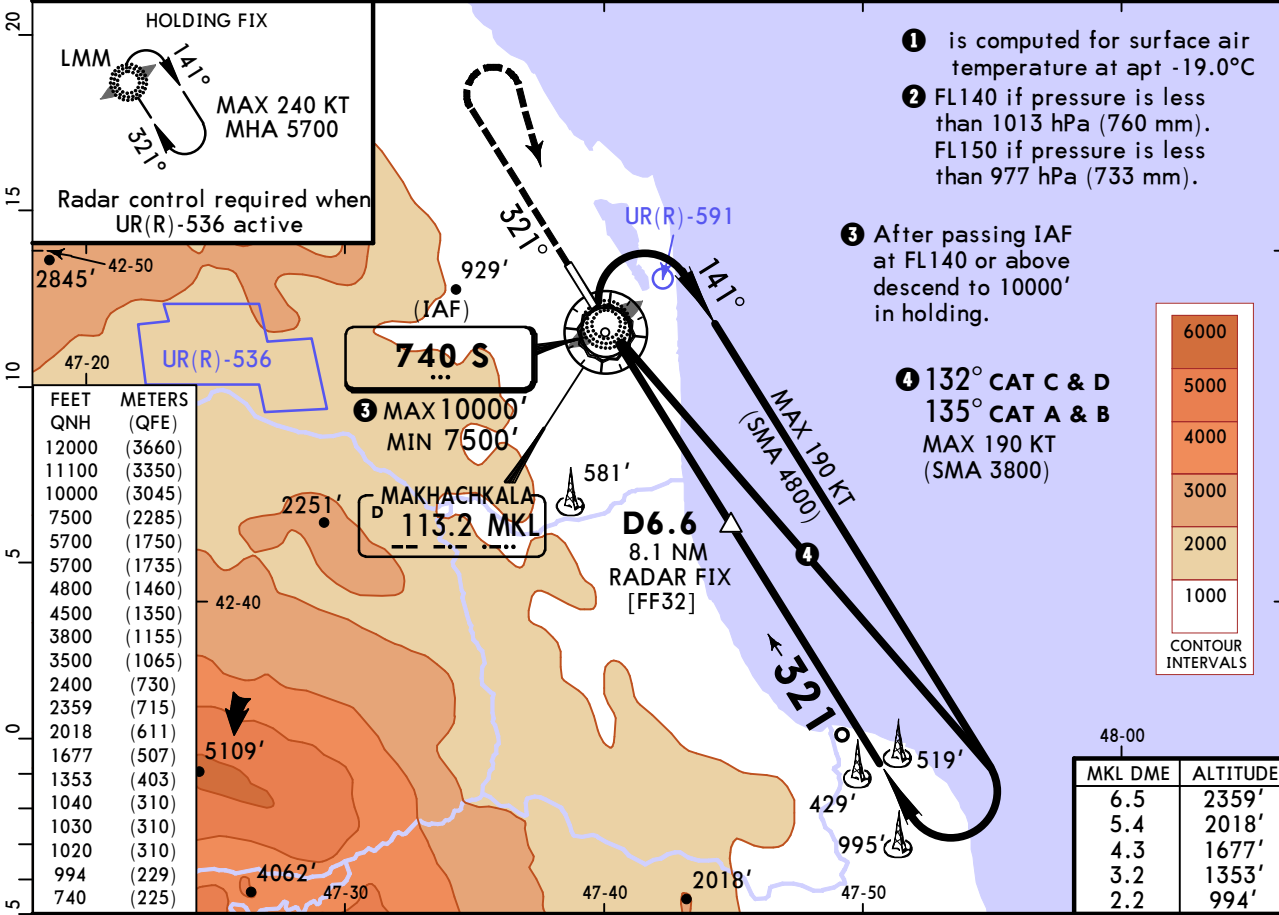
**1** VNAV DA(H) in lieu of MDA(H) depends on operator policy.  
CHANGES: Lights. © JEPPESEN, 2020, 2025. ALL RIGHTS RESERVED.

# URML/MCX UYTASH

**JEPPesen**  
17 OCT 25 (16-5)

# MAKHACHKALA, RUSSIA NDB Z Rwy 32

BRIEFING STRIP™	ATIS (Russian) 125.475 124.8	MAKHACHKALA Approach 119.7	MAKHACHKALA Radar (TWR/R) 121.3	Start (TWR) 121.3		
	Lctr S 740	Final Apch Crs 321°	<b>D6.6</b> 2400' (2386')	DA/MDA(H) Refer to Minimums		Apt Elev 16' Rwy 14'
	<b>MISSED APCH:</b> Climb on 321° to 3500' or above, then turn RIGHT to S Lctr climbing to 4800' or above. MAX 215 KT. Do not turn before MAP.					
Alt Set: hPa (MM on req)		Rwy Elev: 1 hPa	Trans level: FL130 2	Trans alt: 12000'		
1. DME or Radar control required. 2. TAR distance is indicated from ARP						



Gnd speed-Kts	70	90	100	120	140	160		<b>215 KT</b> MAX	MIN <b>3500'</b> on <b>321°</b>
Descent Angle 3.00°	372	478	531	637	743	849			
MAP at LMM.									

Timing not authorized to define MAP.

PANS OPS	STRAIGHT-IN LANDING		CIRCLE-TO-LAND Prohibited West of airport
	MACG MIN 3.0% (183'/NM) CDFA	MACG MIN 2.5% (152'/NM) CDFA	
	<b>1</b> DA/MDA(H) <b>740'</b> (726')	<b>1</b> DA/MDA(H) <b>1020'</b> (1006')	
	ALS out	ALS out	Max KT
A	R1500m	R1500m	100 1030' (1014') V1500m
B	R1500m	R1500m	135 1030' (1014') V1600m
C	R2400m	R2400m	180 1040' (1024') V2400m
D	R2400m	R2400m	205 1040' (1024') V3600m

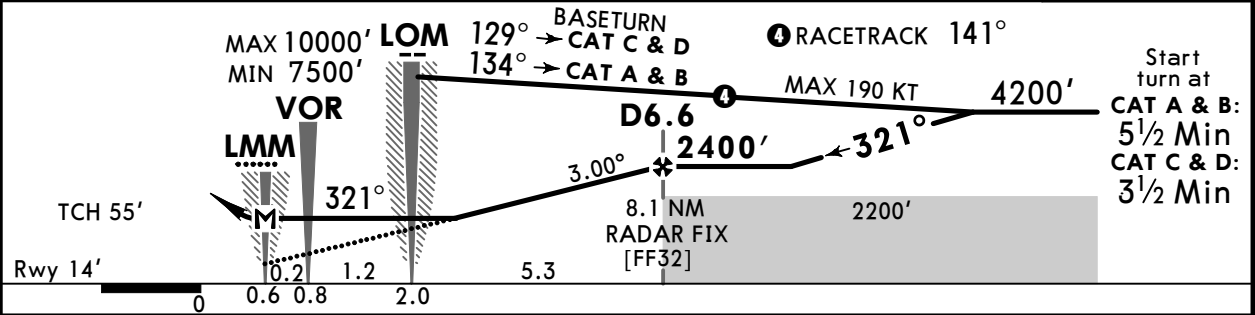
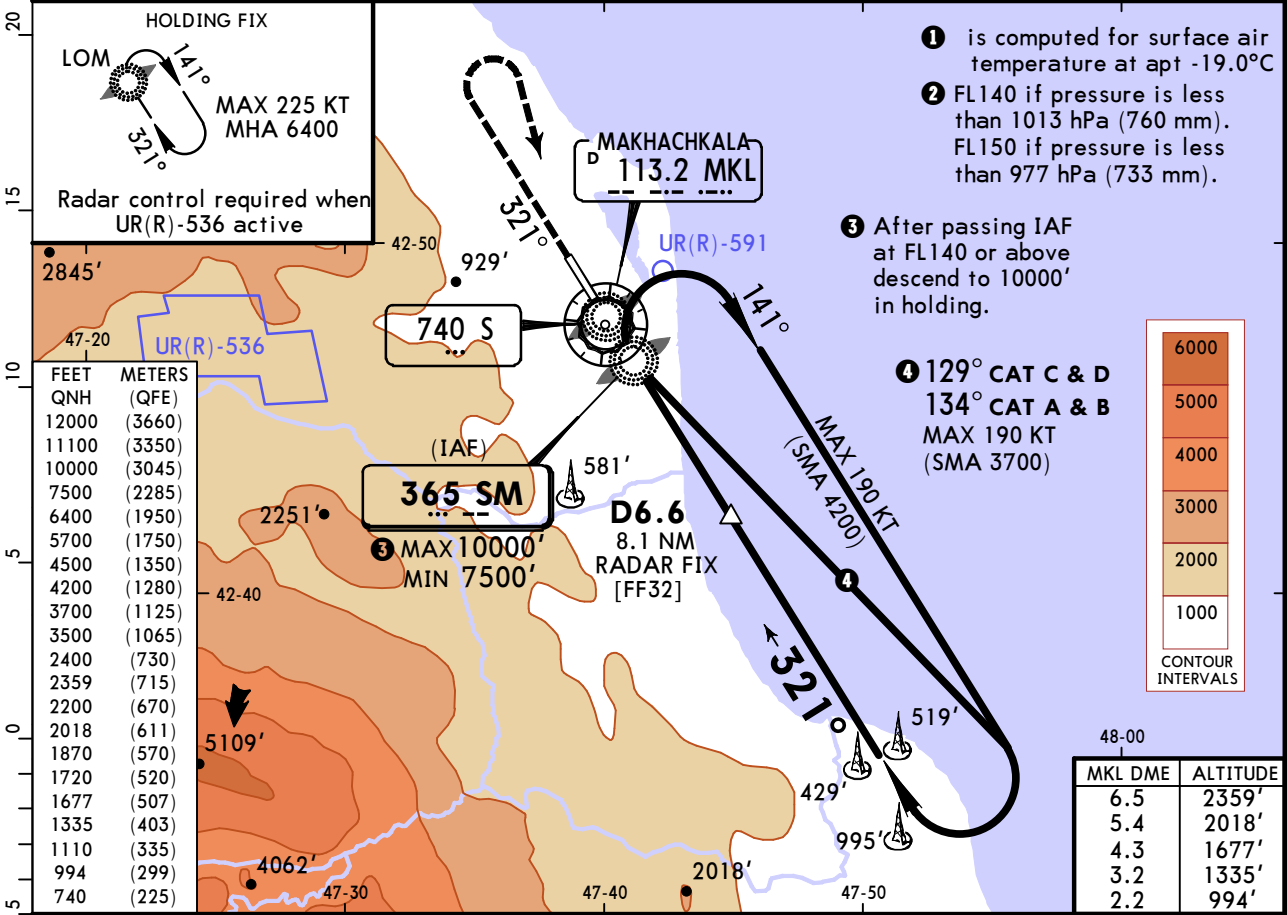
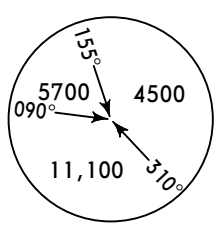
**1** VNAV DA(H) in lieu of MDA(H) depends on operator policy.  
 CHANGES: None. © JEPPesen, 2020, 2025. ALL RIGHTS RESERVED.

# URML/MCX UYTASH

**JEPPESEN**  
17 OCT 25 **(16-6)**

# MAKHACHKALA, RUSSIA NDB Y Rwy 32

BRIEFING STRIP™	ATIS (Russian) <b>125.475 124.8</b>	MAKHACHKALA Approach <b>119.7</b>	MAKHACHKALA Radar (TWR/R) <b>121.3</b>	Start (TWR) <b>121.3</b>
	NDB SM <b>365</b>	Final Apch Crs <b>321°</b>	<b>D6.6</b> 2400' (2386')	DA/MDA(H) Refer to Minimums
<b>MISSED APCH:</b> Climb on 321° to 3500' or above, then turn RIGHT to SM NDB climbing to 4200' or above. MAX 215 KT. Do not turn before MAP.				
Alt Set: hPa (MM on req)      Rwy Elev: 1 hPa      Trans level: FL130 <b>2</b> Trans alt: 12000'				
1. DME or Radar control required. 2. TAR distance is indicated from ARP				



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI <b>215 KT</b> MAX MIN <b>3500'</b> on <b>321°</b>
Descent Angle 3.00°	372	478	531	637	743	849	
MAP at LMM.							

PANS OPS	STRAIGHT-IN LANDING		CIRCLE-TO-LAND Prohibited West of airport
	MACG MIN 3.4% (207'/NM) CDFA <b>1</b> DA/MDA(H) <b>740'</b> (726')	MACG MIN 2.5% (152'/NM) CDFA <b>1</b> DA/MDA(H) <b>1100'</b> (1086')	
A	R1500m	R1500m	Max 100 KT MDA(H) <b>1110'</b> (1094') V1500m
B	R1500m	R1500m	135 <b>1110'</b> (1094') V1600m
C	R2400m	R2400m	180 <b>1110'</b> (1094') V2400m
D	R2400m	R2400m	205 <b>1110'</b> (1094') V3600m

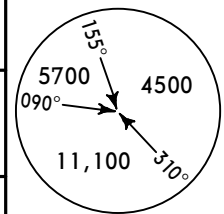
**1** VNAV DA(H) in lieu of MDA(H) depends on operator policy.  
 CHANGES: Recommended altitudes. © JEPPESEN, 2020, 2025. ALL RIGHTS RESERVED.

# URML/MCX UYTASH

**JEPPESSEN**  
3 OCT 25 **(16-7)**

# MAKHACHKALA, RUSSIA NDB X Rwy 32

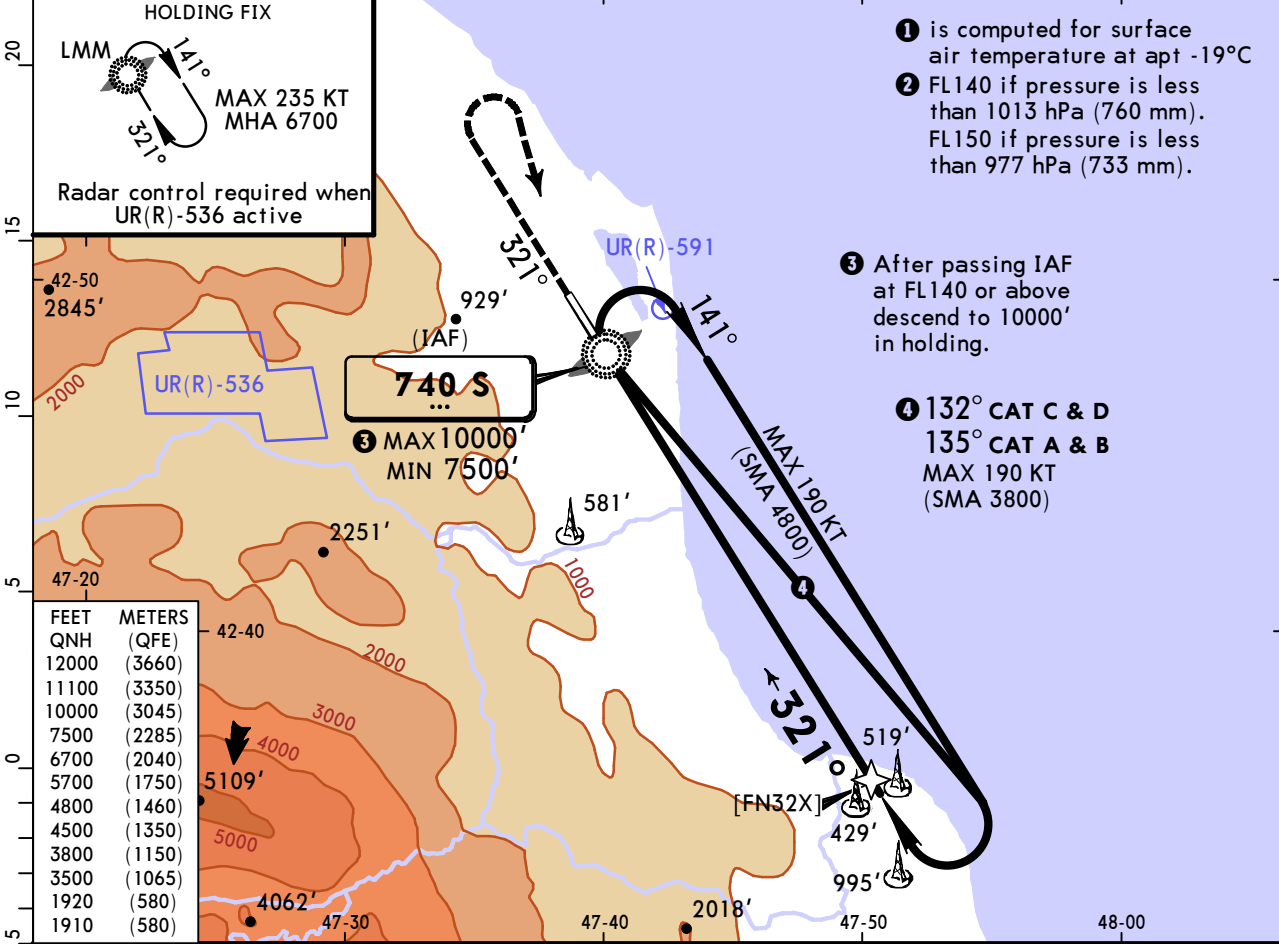
ATIS (Russian) <b>125.475 124.8</b>		MAKHACHKALA Approach <b>119.7</b>	MAKHACHKALA Radar (TWR/R) <b>121.3</b>	Start (TWR) <b>121.3</b>
Lctr <b>S</b> <b>740</b>	Final Apch Crs <b>321°</b>	[FN32X] <b>4800'</b> (4786')	MDA(H) <b>1910'</b> (1896')	Apt Elev 16' Rwy 14'



**MISSED APCH:** Climb on 321° to 3500' or above, then turn RIGHT to Lctr climbing to 4800' or above. MAX 215 KT. Do not turn before MAP.

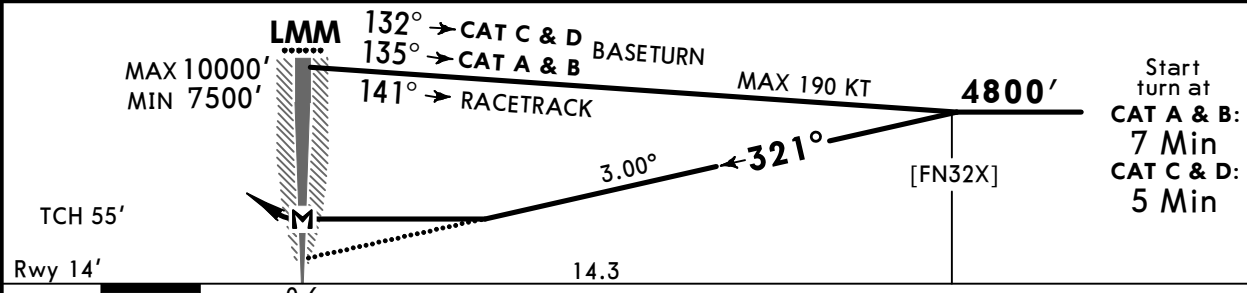
MSA ARP ①

Alt Set: hPa (MM on req) Rwy Elev: 1 hPa Trans level: FL130 ② Trans alt: 12000'



- ① is computed for surface air temperature at apt -19°C
- ② FL140 if pressure is less than 1013 hPa (760 mm). FL150 if pressure is less than 977 hPa (733 mm).
- ③ After passing IAF at FL140 or above descend to 10000' in holding.
- ④ 132° CAT C & D  
135° CAT A & B  
MAX 190 KT (SMA 3800)

FEET	METERS
QNH (QFE)	
12000 (3660)	
11100 (3350)	
10000 (3045)	
7500 (2285)	
6700 (2040)	
5700 (1750)	
4800 (1460)	
4500 (1350)	
3800 (1150)	
3500 (1065)	
1920 (580)	
1910 (580)	



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

HIALS  
PAPI

**215 KT**  
MAX

MIN **3500'** on **321°**

PANS OPS	STRAIGHT-IN LANDING		CIRCLE-TO-LAND	
	MDA(H)	ALS out	Max Kts	MDA(H)
A	R2400m		100	1920' (1904') ① V1500m
B			135	1920' (1904') ① V1600m
C			180	1920' (1904') V2400m
D			205	1920' (1904') V3600m

① or higher straight-in minimums.

## Chart changes since cycle 07-2026

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

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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**MAKHACHKALA, (UYTASH - URML)**

## TERMINAL CHART CHANGE NOTICES

### Chart Change Notices for Airport URML

**Type:** Terminal

**Effectivity:** Temporary

**Begin Date:** 20251225

**End Date:** Until Further Notice

(11-1) ILS Z or LOC Z RWY 14, (12-40) GLS RWY 14, - Restricted areas UR(R)-533 and UR(R)-536 deleted from chart. (11-2) ILS Y or LOC Y RWY 14, - Restricted area UR(R)-533 deleted from chart. (11-5) ILS Z or LOC Z RWY 32, (12-41) GLS RWY 32 - Restricted area UR(R)-536 deleted from chart. (11-2) ILS Y or LOC Y RWY 14, (11-3) ILS W or LOC W RWY 14, (11-6) ILS Y or LOC Y RWY 32, (11-7) ILS X or LOC X RWY 32, (11-8) ILS W or LOC W RWY 32, (16-1) NDB Z RWY 14, (16-2) NDB Y RWY 14, (16-3) NDB X RWY 14, (16-4) NDB W RWY 14, (16-5) NDB Z RWY 32, (16-6) NDB Y RWY 32, (16-7) NDB X RWY 32, - Read note "Do not turn before MAP." as "Turn before MAP is PROHIBITED."