

ADD = Added chart, REV = Revised chart, DEL = Deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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No revision activity since Disc 04-2011

TERMINAL CHART NOTAMs

No Chart NOTAMs for Airport URML

General Info

Makhachkala, RUS

N 42° 49.0' E 47° 39.2' Mag Var: 5.5°E

Elevation: 15'

Public, IFR, Control Tower, Customs, Landing Fee

Fuel: Jet A-1

Time Zone Info: GMT+3:00 uses DST

Runway Info

Runway 14-32 8661' x 138' concrete

Runway 14 (142.0°M) TDZE -1'

Lights: Edge, ALS

Runway 32 (322.0°M) TDZE 12'

Lights: Edge, ALS

Communications Info

ATIS **125.475**

ATIS **124.8** Non-English

Makhachkala Start Tower **121.3** Non-English

Makhachkala Approach Control **119.7** Non-English

Makhachkala Krug Radar **121.3**

Notebook Info

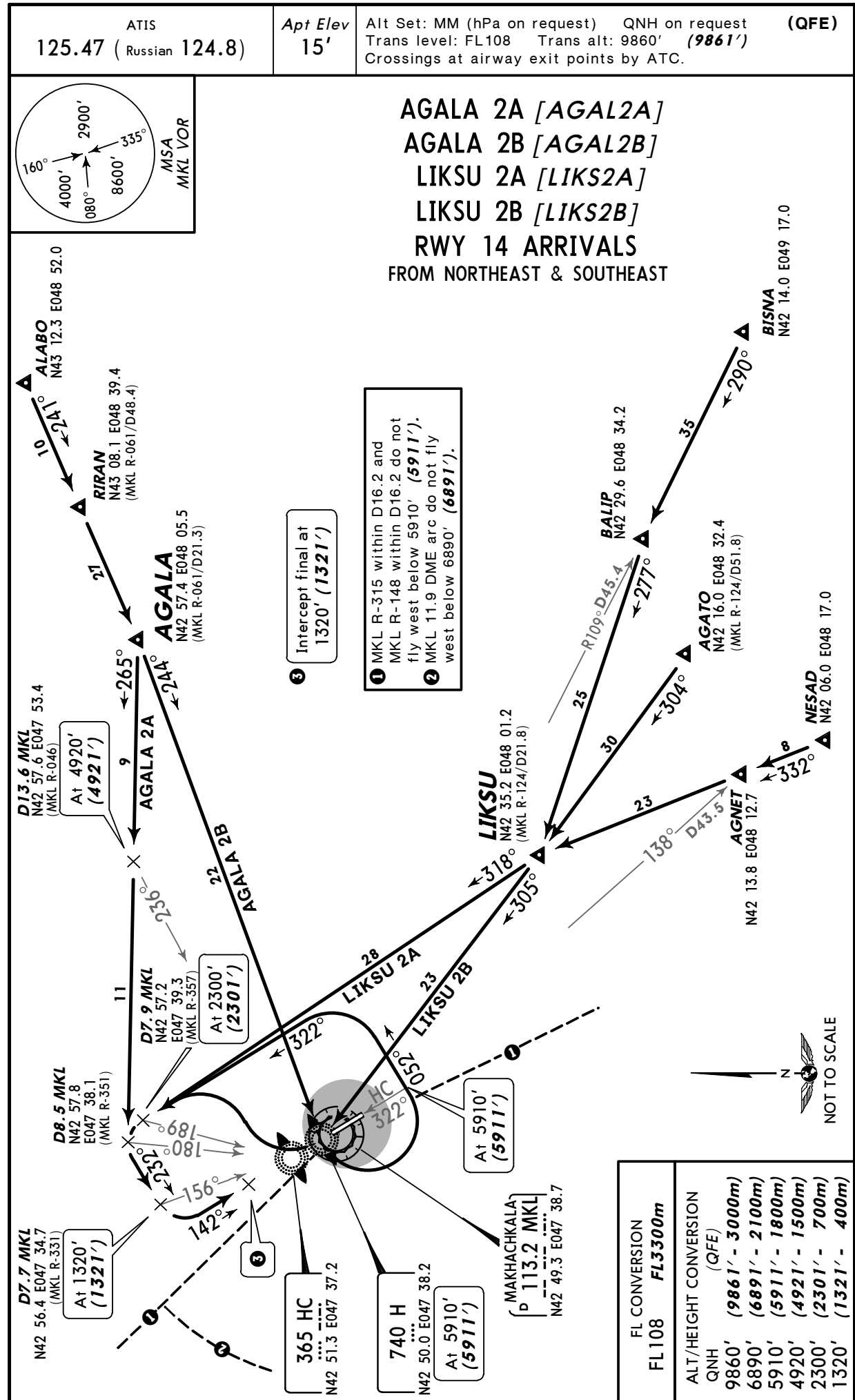
URML/MCX
UYTASH

11 SEP 09

10-2

MAKHACHKALA, RUSSIA

STAR



URML/MCX
UYTASH

11 SEP 09

(10-2A)

MAKHACHKALA, RUSSIA

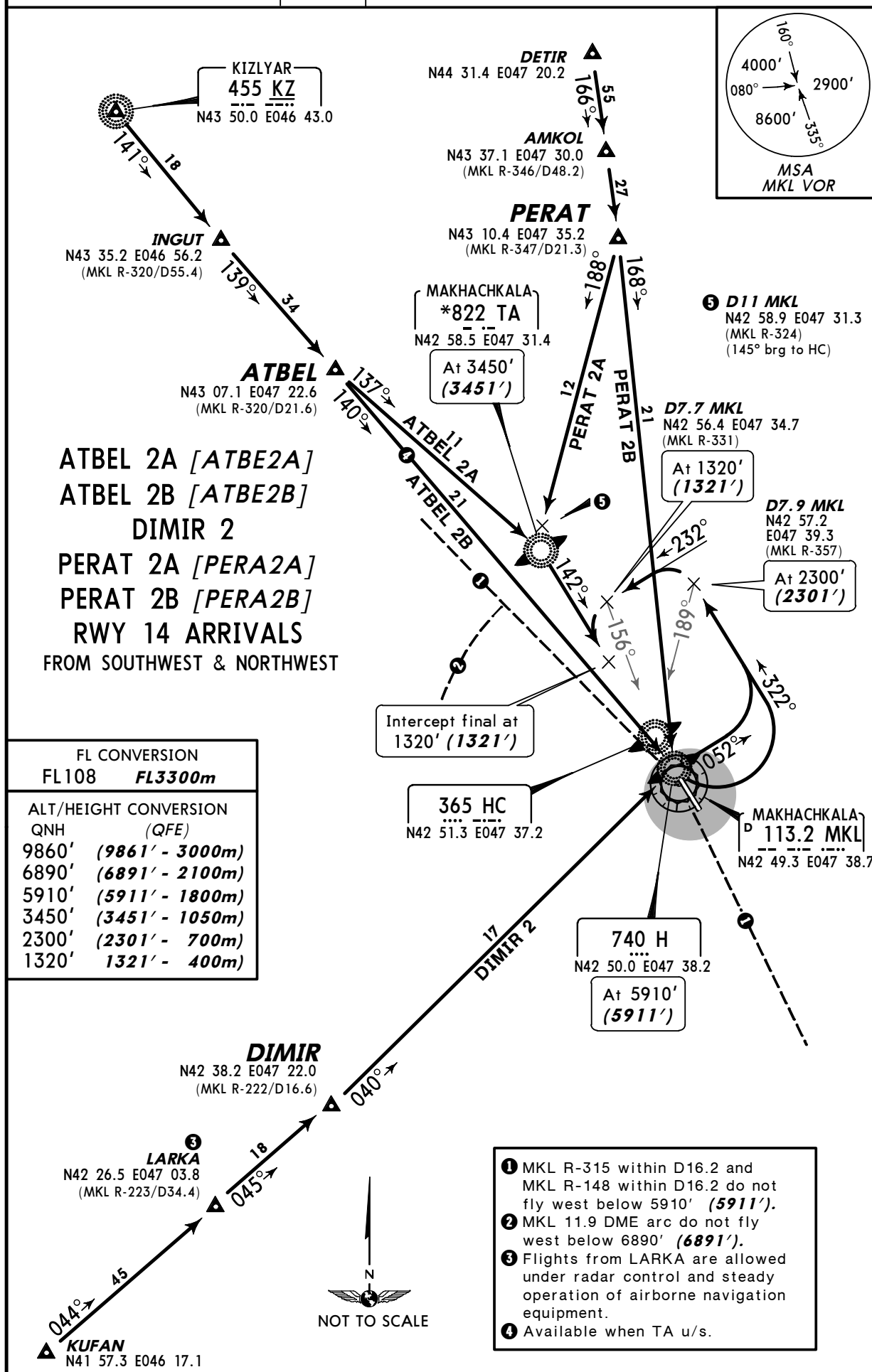
STAR

ATIS
125.47 (Russian 124.8)

Apt Elev
15'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL108 Trans alt: 9860' (**9861'**)
Crossings at airway exit points by ATC.

(QFE)



URML/MCX
UYTASH

11 SEP 09

10-2B

MAKHACHKALA, RUSSIA

STAR

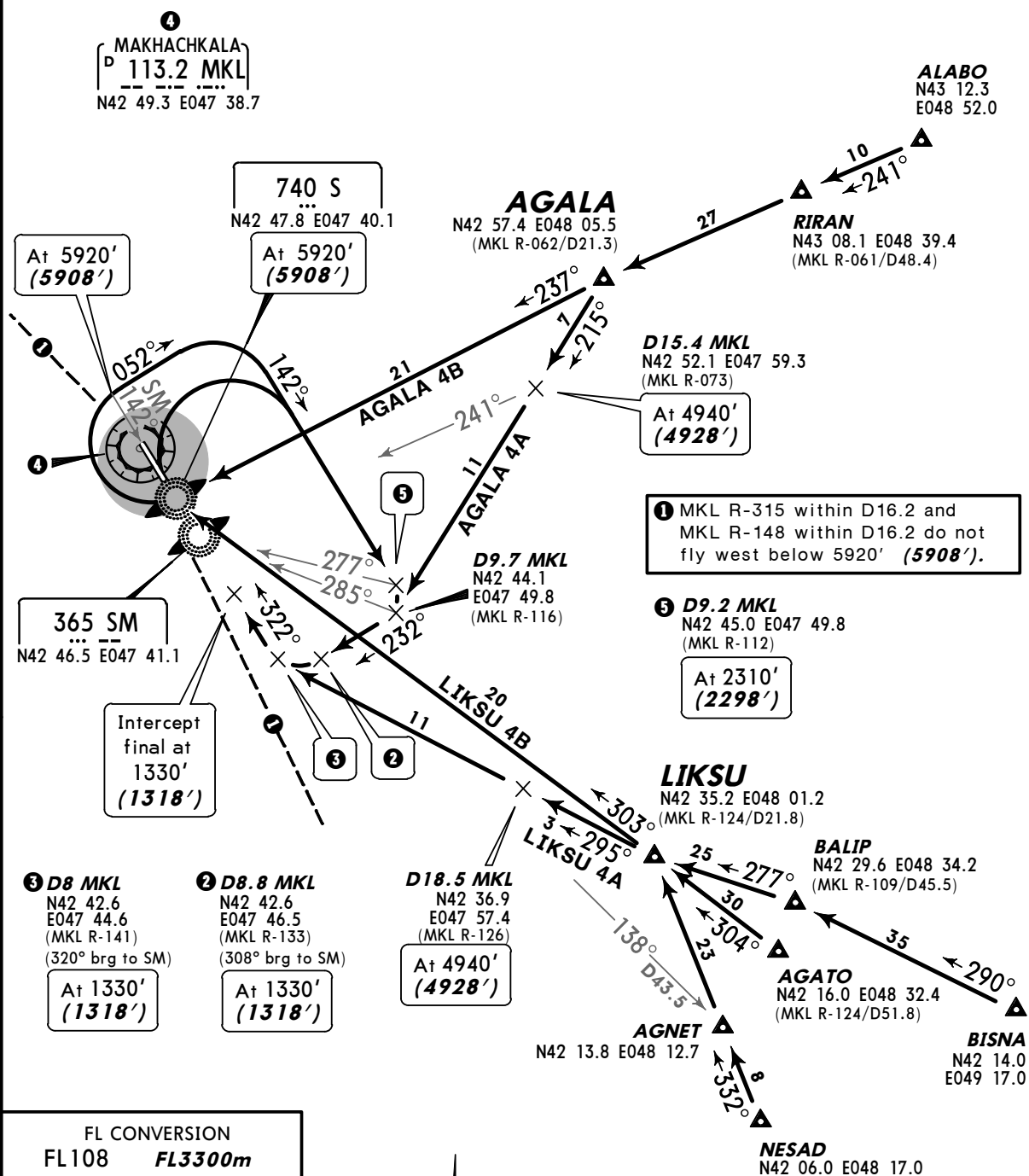
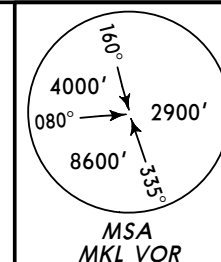
ATIS
125.47 (Russian 124.8)

Apt Elev
15'

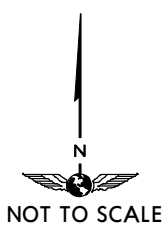
Alt Set: MM (hPa on request) QNH on request
Trans level: FL108 Trans alt: 9860' (**9848'**)
Crossings at airway exit points by ATC.

(QFE)

AGALA 4A [AGAL4A]
AGALA 4B [AGAL4B]
LIKSU 4A [LIKS4A]
LIKSU 4B [LIKS4B]
RWY 32 ARRIVALS
FROM NORTHEAST & SOUTHEAST



FL CONVERSION	
FL108	FL3300m
ALT/HEIGHT CONVERSION	
QNH	(QFE)
9860'	(9848' - 3000m)
5920'	(5908' - 1800m)
4940'	(4928' - 1500m)
2310'	(2298' - 700m)
1330'	(1318' - 400m)



URML/MCX
UYTASH

11 SEP 09

10-2C

MAKHACHKALA, RUSSIA

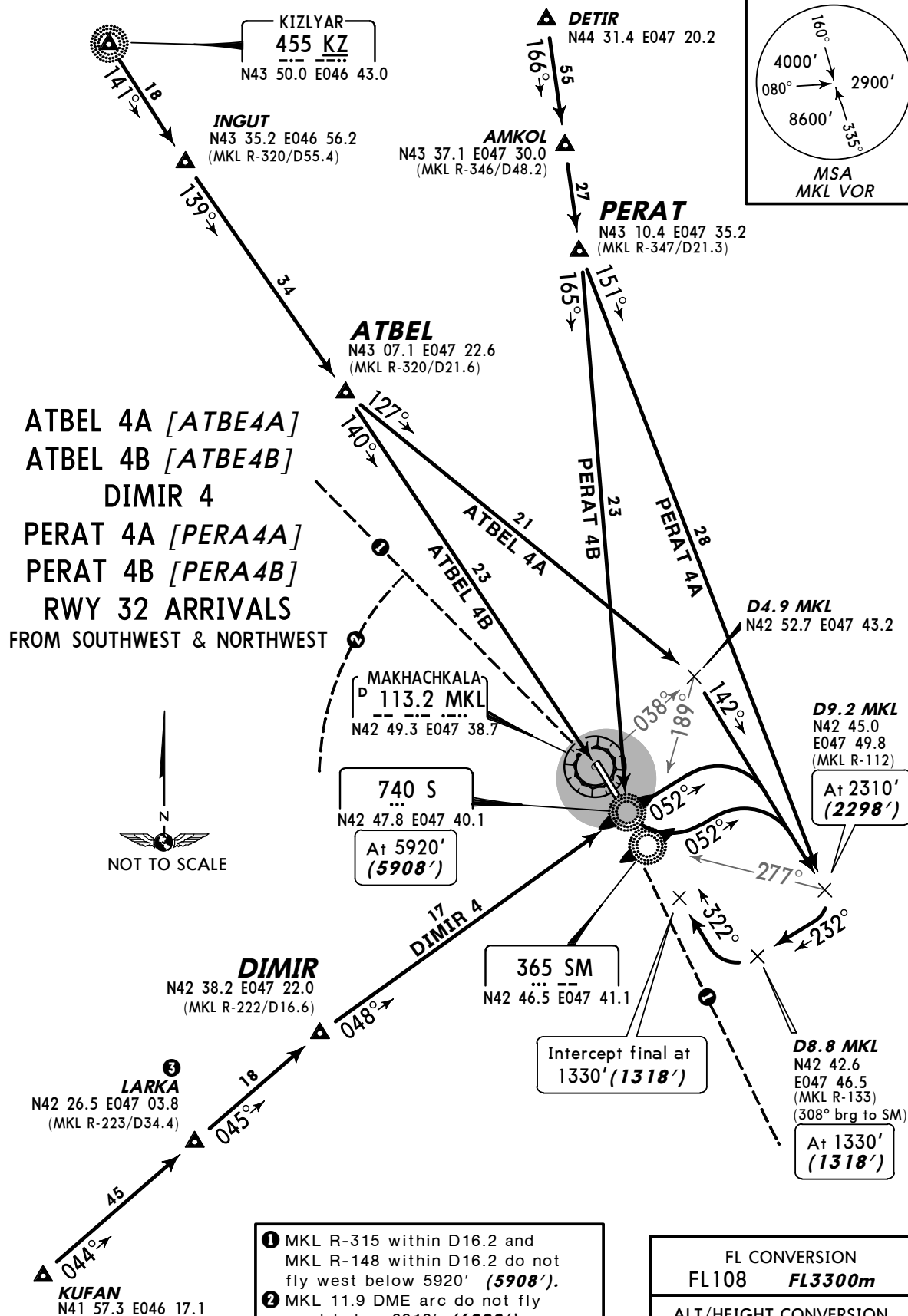
STAR

ATIS
125.47 (Russian 124.8)

Apt Elev
15'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL108 Trans alt: 9860' (**9848'**)
Crossings at airway exit points by ATC.

(QFE)



- 1 MKL R-315 within D16.2 and MKL R-148 within D16.2 do not fly west below 5920' (**5908'**).
- 2 MKL 11.9 DME arc do not fly west below 6910' (**6898'**).
- 3 Flights from LARKA are allowed under radar control and steady operation of airborne navigation equipment.

FL CONVERSION
FL108 **FL3300m**

ALT/HEIGHT CONVERSION	
QNH	(QFE)
9860'	(9848' - 3000m)
6910'	(6898' - 2100m)
5920'	(5908' - 1800m)
2310'	(2298' - 700m)
1330'	(1318' - 400m)

URML/MCX
UYTASH

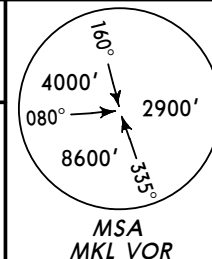
JEPPESEN
24 APR 09 **10-3** **Eff 7 May**

MAKHACHKALA, RUSSIA

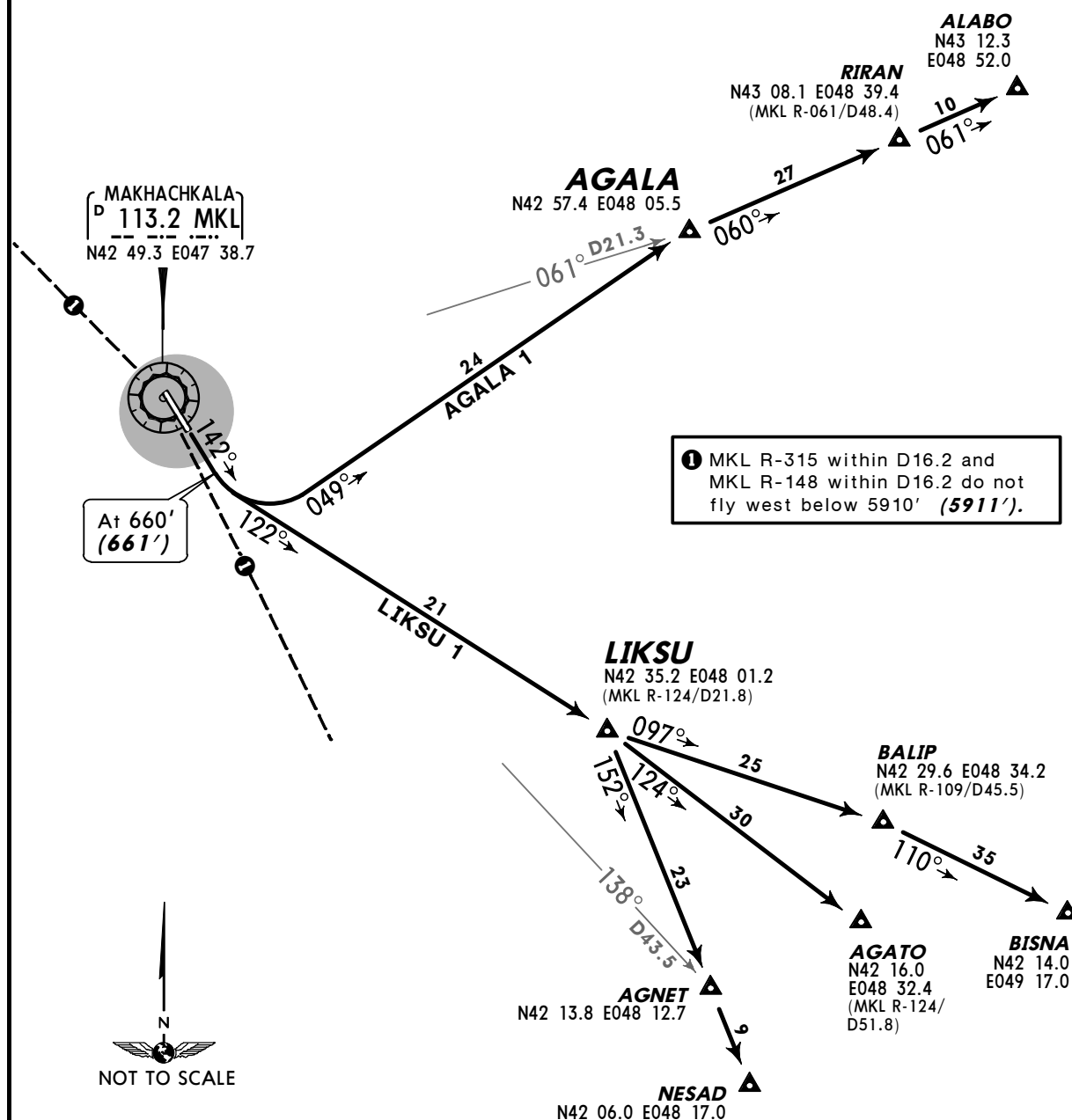
SID

Apt Elev
15'

QNH on request **(QFE)**
Trans level: FL108 Trans alt: 9860' **(9861')**
Crossings at airway entry points by ATC.



AGALA 1
LIKSU 1
RWY 14 DEPARTURES
TO NORTHEAST & SOUTHEAST



ALT/HEIGHT CONVERSION	
QNH	(QFE)
660'	(661' - 200m)
5910'	(5911' - 1800m)
9860'	(9861' - 3000m)

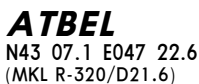
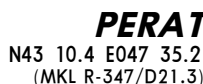
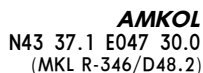
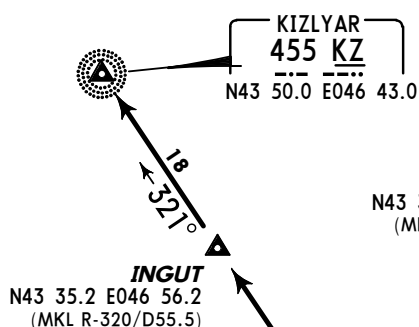
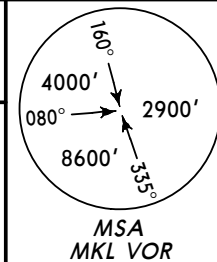
FL CONVERSION	
FL108	FL3300m

URML/MCX
UYTASH

JEPPesen **MAKHACHKALA, RUSSIA**
24 APR 09 **(10-3A)** **Eff 7 May** **SID**

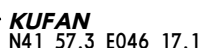
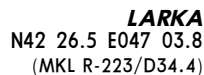
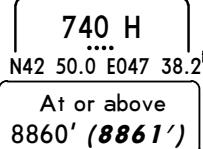
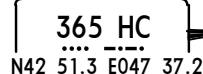
Apt Elev
15'

QNH on request **(QFE)**
Trans level: FL108 Trans alt: 9860' **(9861')**
Crossings at airway entry points by ATC.

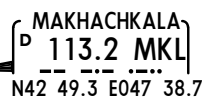
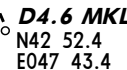
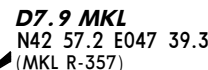


ALT/HEIGHT CONVERSION	
QNH	(QFE)
660'	(661' - 200m)
1970'	(1971' - 600m)
5910'	(5911' - 1800m)
6890'	(6891' - 2100m)
8860'	(8861' - 2700m)
9860'	(9861' - 3000m)

FL CONVERSION
FL108 **FL3300m**



ATBEL 1
DIMIR 1
PERAT 1
RWY 14 DEPARTURES
TO SOUTHWEST & NORTHWEST



- 1 MKL R-315 within D16.2 and MKL R-148 within D16.2 do not fly west below 5910' (5911').
- 2 MKL 11.9 DME arc do not fly west below 6890' (6891').
- 3 Flights to DIMIR are allowed under radar control and steady operation of airborne navigation equipment.

DIMIR 1

This SID requires a minimum climb gradient of 255' per NM (4.2%) up to H.

Gnd speed-KT	75	100	150	200	250	300
255' per NM	319	425	638	851	1063	1276

URML/MCX
UYTASH

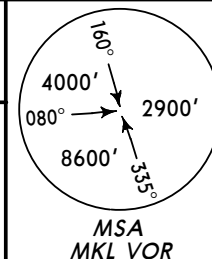
JEPPESSEN
24 APR 09 **(10-3B)** **Eff 7 May**

MAKHACHKALA, RUSSIA

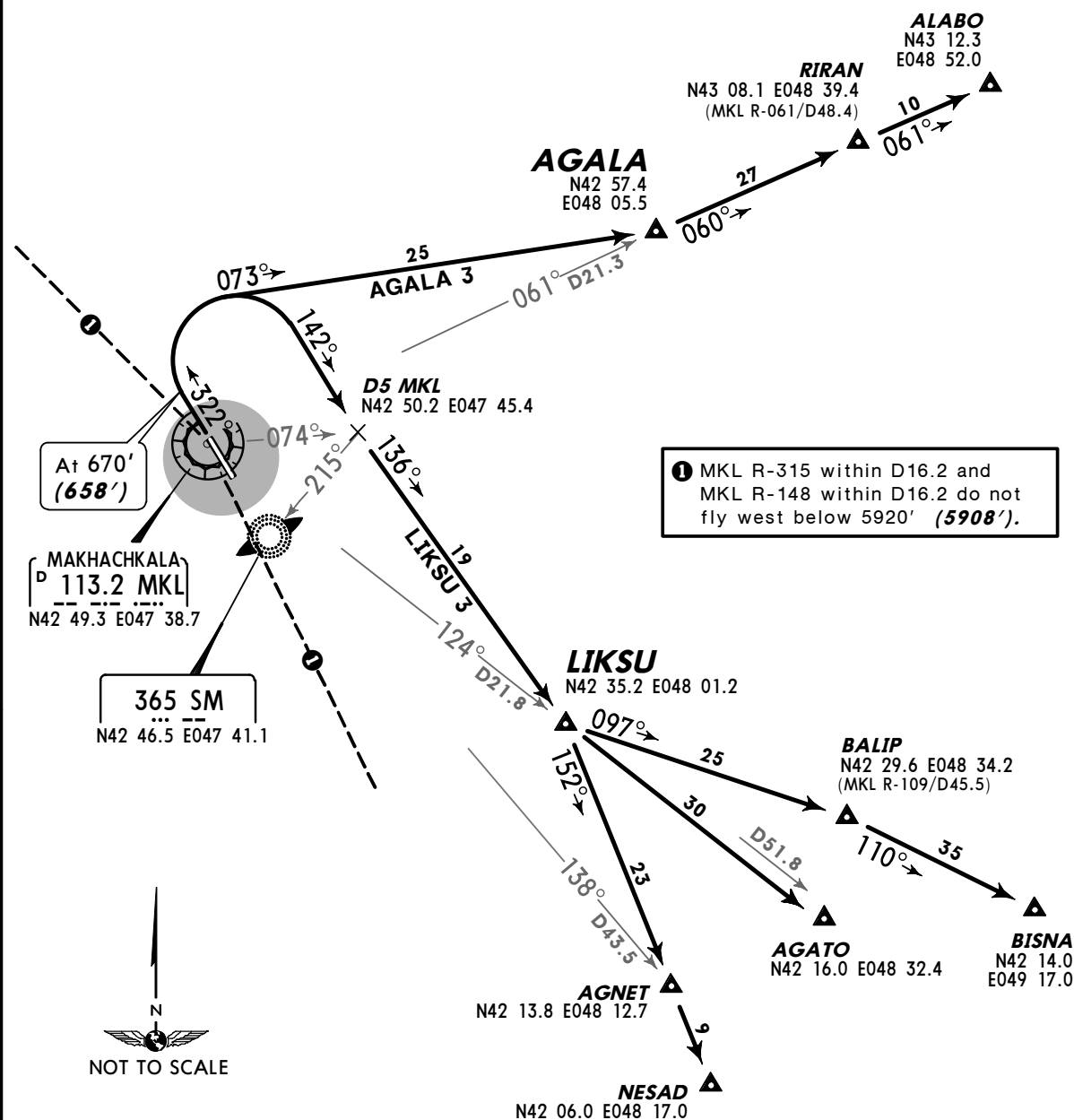
SID

Apt Elev
15'

QNH on request **(QFE)**
Trans level: FL108 Trans alt: 9860' **(9848')**
Crossings at airway entry points by ATC.



AGALA 3
LIKSU 3
RWY 32 DEPARTURES
TO NORTHEAST & SOUTHEAST



ALT/HEIGHT CONVERSION	
QNH	(QFE)
670'	(658' - 200m)
5920'	(5908' - 1800m)
9860'	(9848' - 3000m)

FL CONVERSION	
FL108	FL3300m

URML/MCX
UYTASH

JEPPesen
24 APR 09 **10-3C**

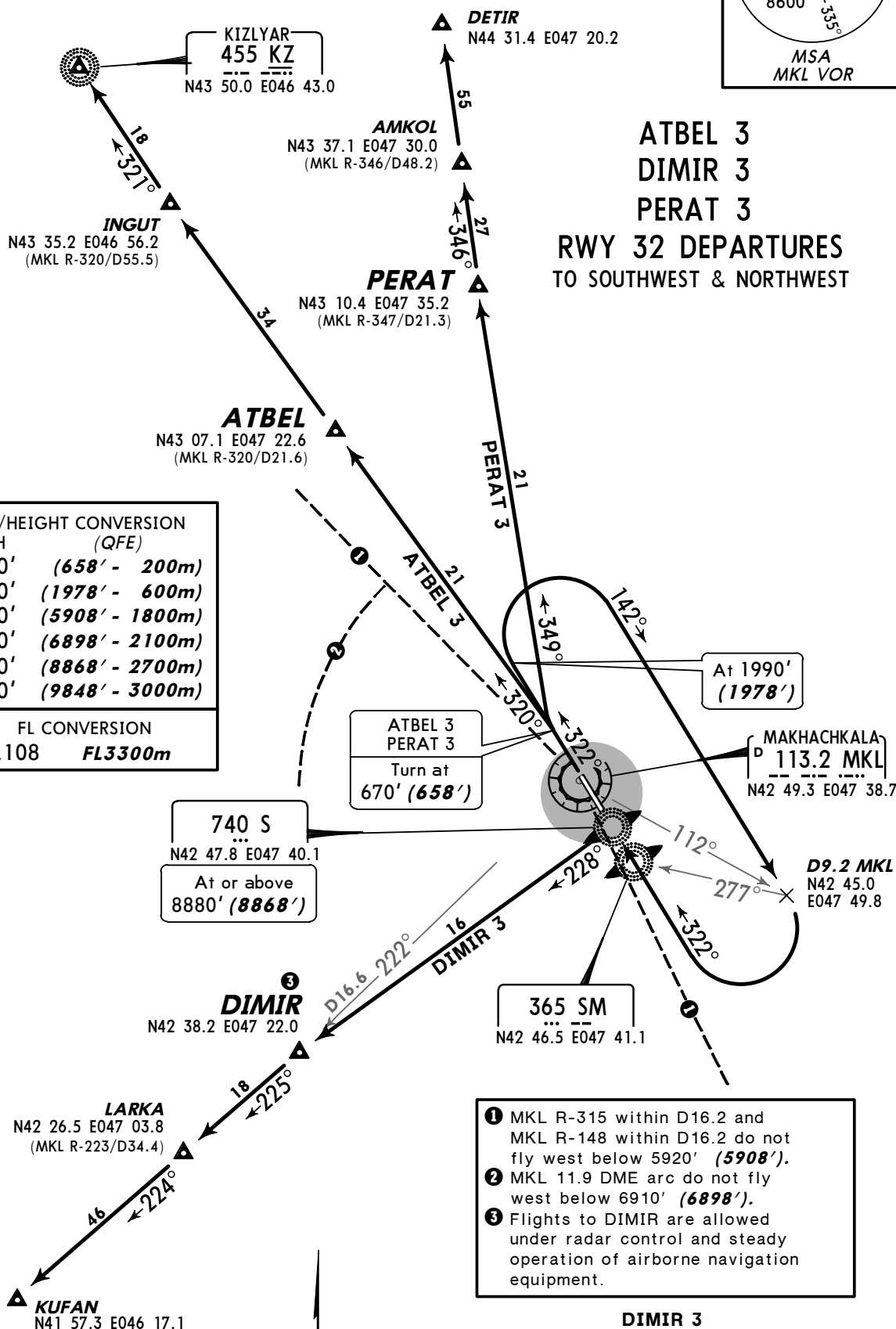
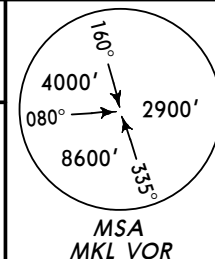
MAKHACHKALA, RUSSIA

Eff 7 May

SID

Apt Elev
15'

QNH on request **(QFE)**
Trans level: FL108 Trans alt: 9860' **(9848')**
Crossings at airway entry points by ATC.



This SID requires a minimum climb gradient of 255' per NM (4.2%) up to S.

Gnd speed-KT	75	100	150	200	250	300
255' per NM	319	425	638	851	1063	1276

URML/MCX

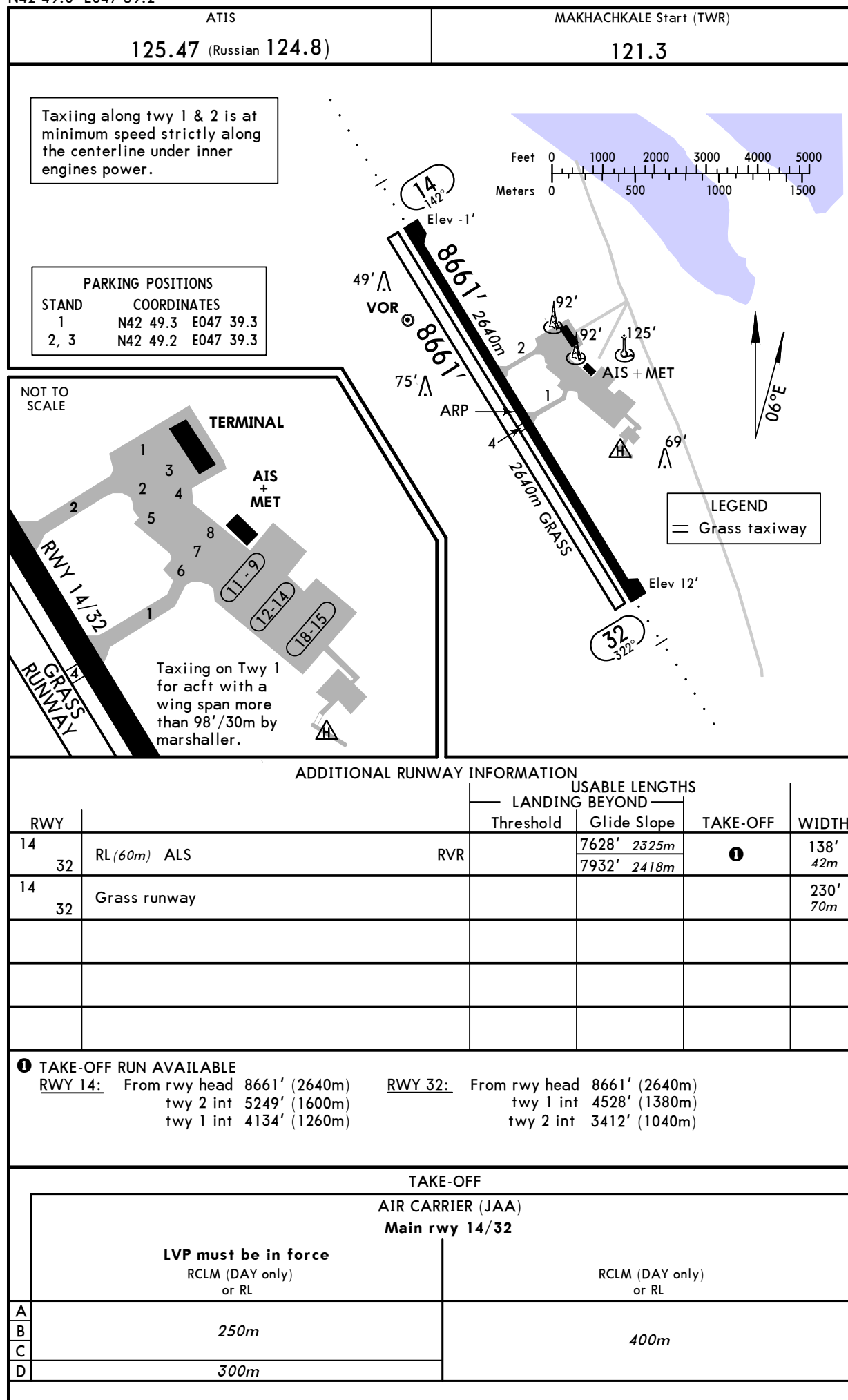
Apt Elev **15'**
N42 49.0 E047 39.2

11 SEP 09

(10-9)

MAKHACHKALA, RUSSIA

UYTASH

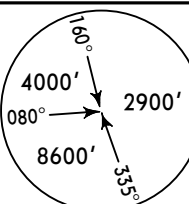


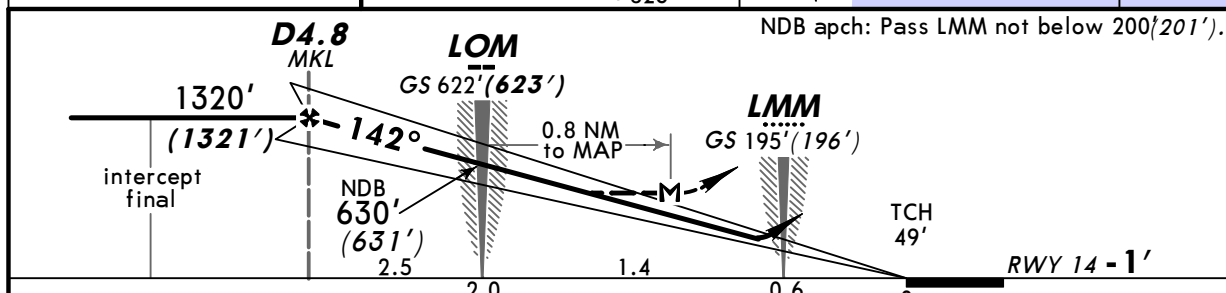
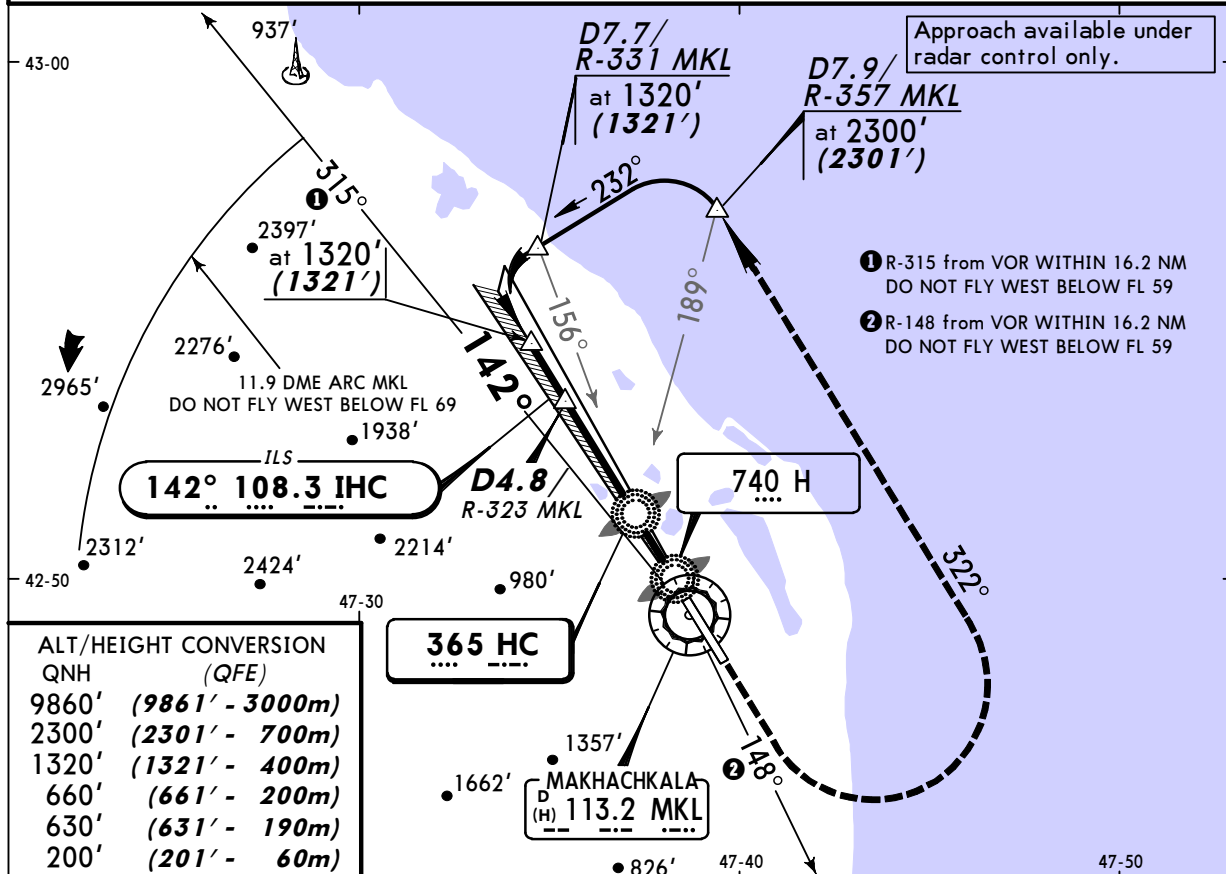
URML/MCX
UYTASH

JEPPESSEN
11 SEP 09 **(11-1)**

MAKHACHKALA, RUSSIA
ILS or 2 NDB RWY 14

BRIEFING STRIP

ATIS		MAKHACHKALA Approach (R)		MAKHACHKALA Krug (SRE)		MAKHACHKALA Start (TWR)		
125.47 (Russian 124.8)		119.7		121.3		121.3		
LOC IHC 108.3	Final Apch Crs 142°	GS LOM 622' (623')	ILS DA(H) Refer to Minimums	Apt Elev 15' RWY -1' (BELOW SEA LEVEL)				
NDB HC 365		Minimum Alt D4.8 MKL 1320' (1321')	NDB MDA(H) Refer to Minimums					
MISSED APCH: Climb on 142° to 660' (661'), then turn LEFT onto 322° climbing to 2300' (2301'), then according to chart.							MSA MKL VOR	
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 108			Trans alt: 9860' (9861')	



Gnd speed-Kts	70	90	100	120	140	160	ALS	660' (661') on 142°	322° LT	2300' (2301')
ILS GS 2.67° or NDB Desc Grad 4.7%	336	432	480	576	671	767				
LOM to MAP	0.8	0:41	0:32	0:29	0:24	0:21	0:18			

ILS		STRAIGHT-IN LANDING RWY 14		NDB	
DA(H) AB: 199' (200') CD: 229' (230')		LOC (GS out)		MDA(H) ABC: 330' (331') D: 400' (401')	
FULL	ALS out			ALS out	
A					
B					
C	1200m	NOT AUTHORIZED		2200m	
D					

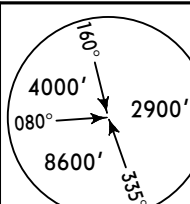
PANS OPS

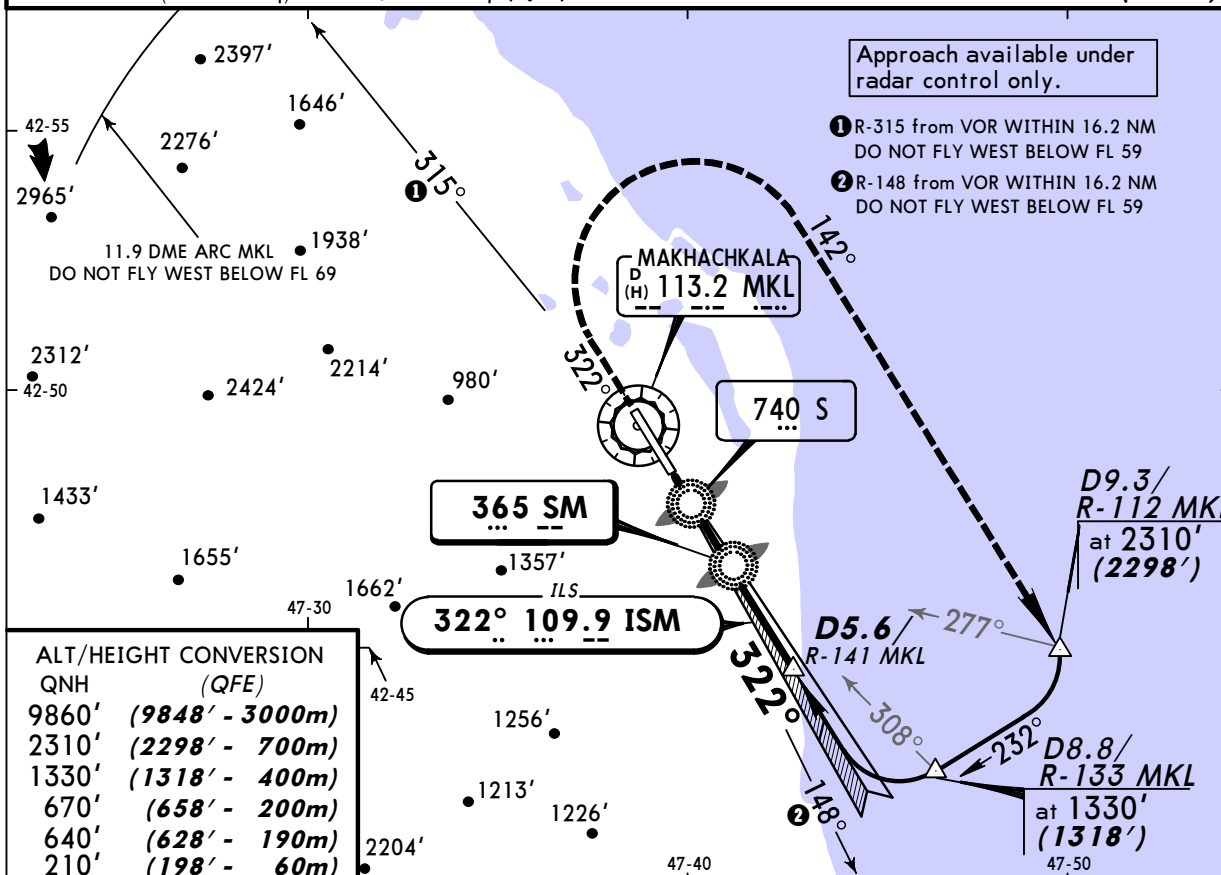
URML/MCX
UYTASH

JEPPesen
11 SEP 09 **(11-2)**

MAKHACHKALA, RUSSIA
ILS or 2 NDB Rwy 32

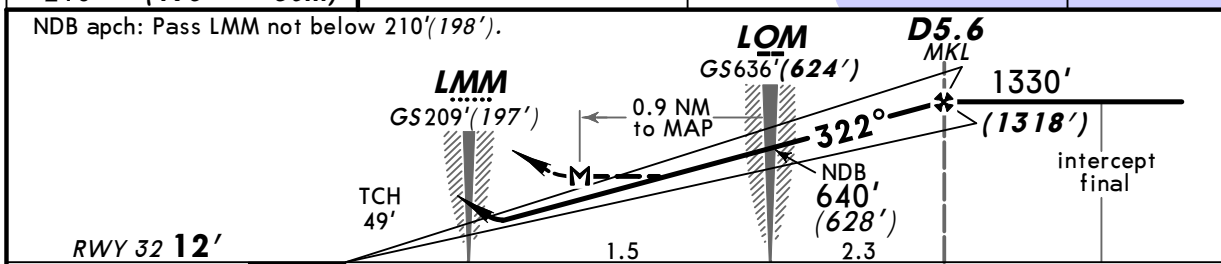
BRIEFING STRIP

ATIS		MAKHACHKALA Approach (R)		MAKHACHKALA Krug (SRE)		MAKHACHKALA Start (TWR)	
125.47 (Russian 124.8)		119.7		121.3		121.3	
LOC ISM 109.9	Final Apch Crs 322°	GS LOM 636' (624')	ILS DA(H) Refer to Minimums	Apt Elev 15' RWY 12'			
NDB SM 365		Minimum Alt D5.6 MKL 1330' (1318')	NDB MDA(H) Refer to Minimums				
MISSED APCH: Climb on 322° to 670' (658'), then turn RIGHT onto 142° climbing to 2310' (2298'), then according to chart.						MSA MKL VOR	
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 108		Trans alt: 9860' (9848')	



ALT/HEIGHT CONVERSION	QNH	(QFE)
9860'	(9848' - 3000m)	
2310'	(2298' - 700m)	
1330'	(1318' - 400m)	
670'	(658' - 200m)	
640'	(628' - 190m)	
210'	(198' - 60m)	

NDB apch: Pass LMM not below 210' (198').



Gnd speed-Kts	70	90	100	120	140	160	ALS	670' (658')	322°	142°	2310' (2298')
ILS GS 2.67° or NDB Desc Grad 4.7%	336	432	480	576	671	767					
LOM to MAP 0.9	0:46	0:36	0:32	0:27	0:23	0:20					

ILS		STRAIGHT-IN LANDING RWY 32		NDB	
DA(H)	AB: 212' (200') CD: 242' (230')	LOC (GS out)		MDA(H)	ABC: 350' (338') D: 410' (398')
FULL	ALS out			ALS out	
A					
B					
C	1200m	NOT AUTHORIZED		2300m	
D					

PANS OPS