

Page 1

Changed chart(s) since Disc 26-2010

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 26-2010

TERMINAL CHART NOTAMs

No Chart NOTAMs for Airport USCM

USCM (Magnitogorsk)**General Info**

Magnitogorsk, RUS

N 53° 23.6' E 58° 45.4' Mag Var: 11.0°E

Elevation: 1431'

Public, IFR, Control Tower, Customs, Landing Fee

Fuel: Jet A-1

Repairs: Minor Airframe, Minor Engine

Time Zone Info: GMT+5:00 uses DST

Runway Info

Runway 01-19 10663' x 148' concrete

Runway 01 (5.0°M) TDZE 1431'

Lights: Edge, ALS

Runway 19 (185.0°M) TDZE 1395'

Lights: Edge, ALS

Communications InfoATIS **132.8**Magnitogorsk Tower **124.0** SecondaryMagnitogorsk Tower **120.8** MF**Notebook Info**

**USCM/MQF
MAGNITOGORSK**

26 MAR 10

JEPPESEN

MAGNITOGORSK, RUSSIA

10-2

Eff 8 Apr

STAR

ATIS
132.8

Apt Elev
1431'

Alt Set: MM (hPa on request) QNH on request
Trans level: By ATC Trans alt: 5370' (**3939'**)

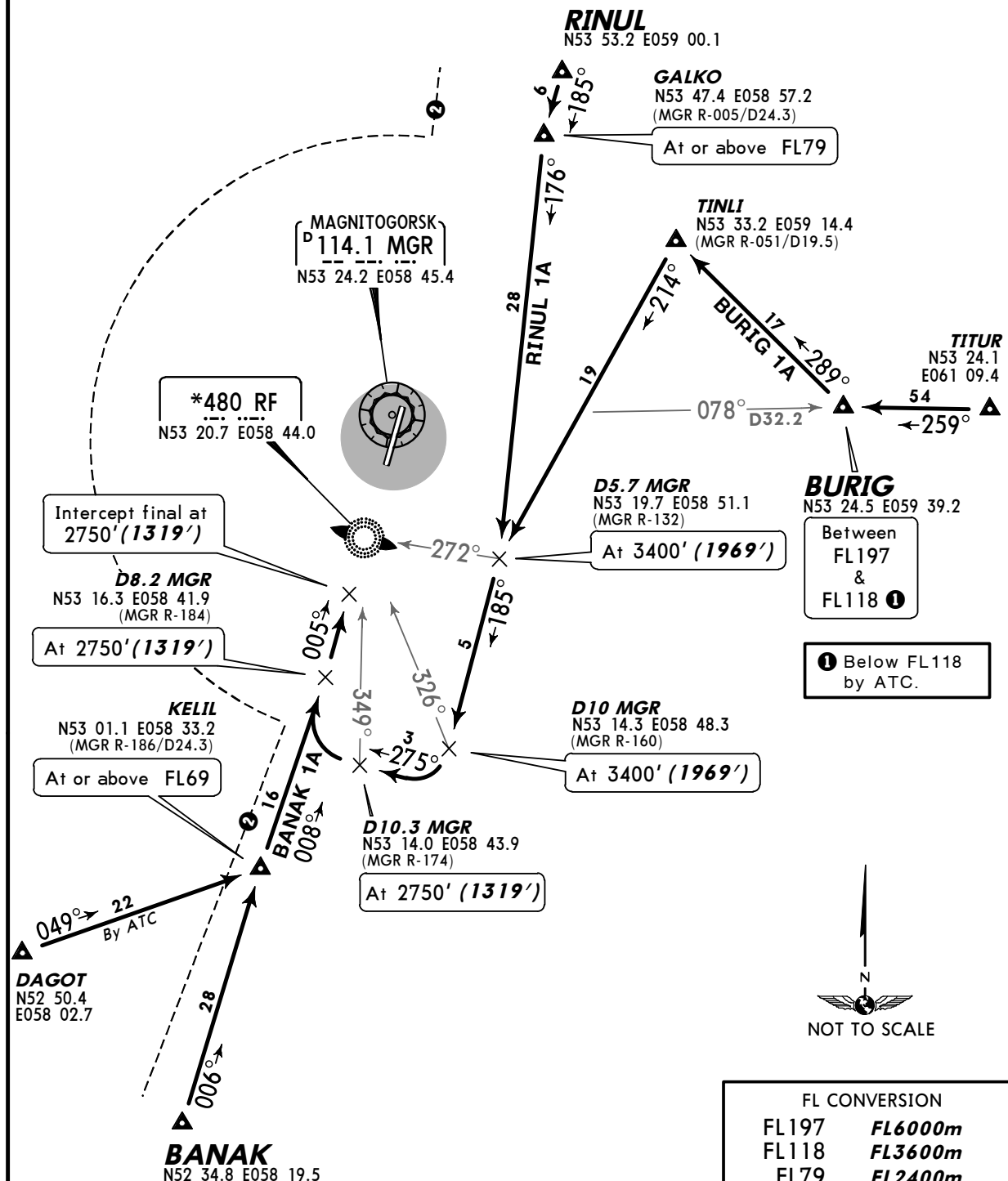
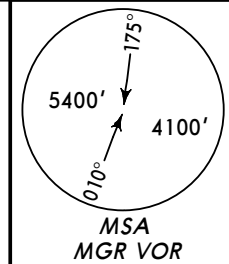
(QFE)

BANAK 1A [*BANA 1A*], **BURIG 1A** [*BURI 1A*]

RINUL 1A [*RINU1A*]

RWY 01 ARRIVALS

FOR STARS WITHOUT RADAR CONTROL REFER TO CHART 10-2D
FROM NORTH, EAST & SOUTH



NOT TO SCALE

FL CONVERSION	
FL197	<i>FL6000m</i>
FL118	<i>FL3600m</i>
FL79	<i>FL2400m</i>
FL69	<i>FL2100m</i>

ALT/HEIGHT CONVERSION

QNH (QFE)

5370' (3939' - 1200m)

3400' (1969' - 600m)

2750' (1319' - 400m)

② Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370' (**3939'**).

**USCM/MQF
MAGNITOGORSK**

JEPPesen MAGNITOGORSK, RUSSIA
26 MAR 10 (10-2A) Eff 8 Apr STAR

STAR

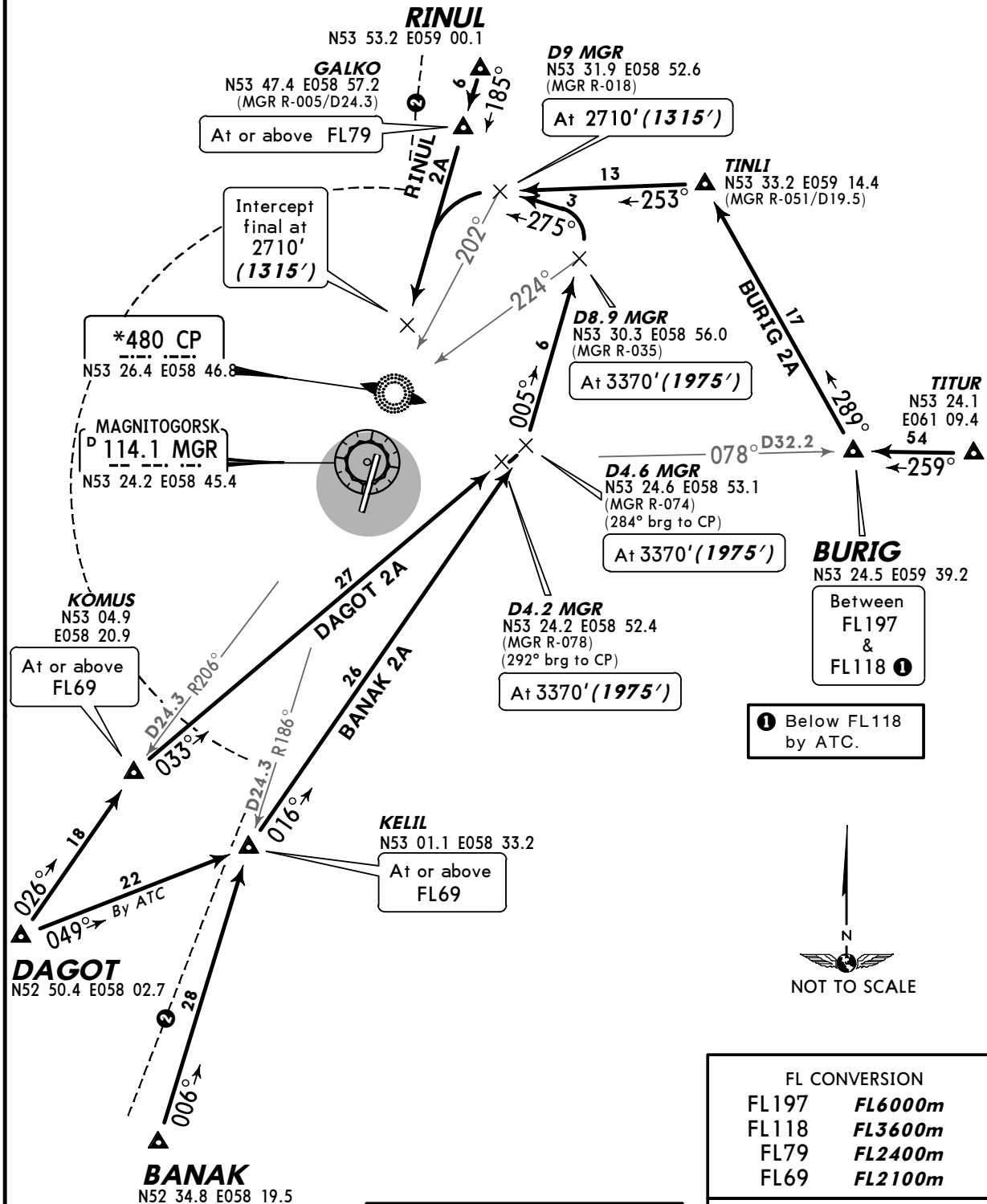
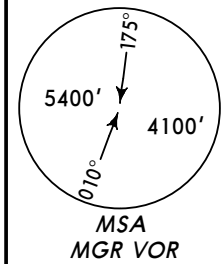
ATIS
132.8

Apt Elev
1431'

Alt Set: MM (hPa on request) QNH on request
Trans level: By ATC Trans alt: 5370' (**3975'**)

(QFE)

**BANAK 2A [BANA2A], BURIG 2A [BURI2A]
DAGOT 2A [DAGO2A], RINUL 2A [RINU2A]
RWY 19 ARRIVALS
FROM NORTH, EAST & SOUTH
FOR STARS WITHOUT RADAR CONTROL REFER TO CHART 10-2E**



FL CONVERSION

FL197	<i>FL6000m</i>
FL118	<i>FL3600m</i>
FL79	<i>FL2400m</i>
FL69	<i>FL2100m</i>

ALT/HEIGHT CONVERSION	
QNH	(QFE)
5370'	(3975' - 1200m)
3370'	(1975' - 600m)
2710'	(1315' - 400m)

2 Within USCM FIR between
MGR R-190 & MGR R-355
west of MGR 9.2 DME do
not fly below 5370' **(3975')**.

USCM/MQF
MAGNITOGORSK

JEPPesen **MAGNITOGORSK, RUSSIA**
26 MAR 10 **10-2B** **Eff 8 Apr** **STAR**

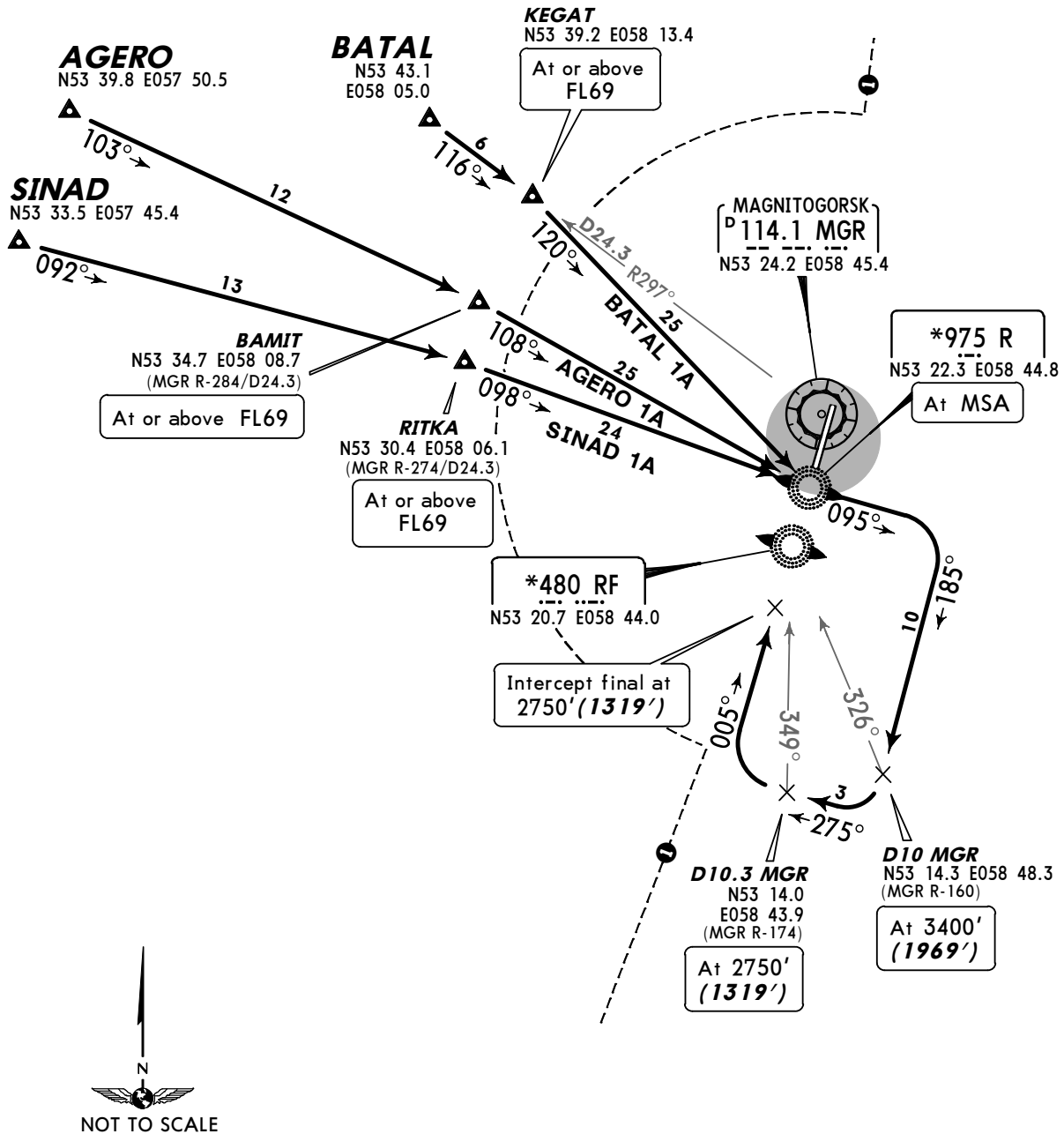
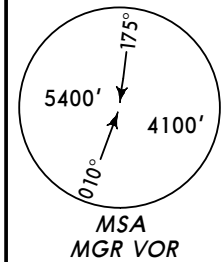
ATIS
132.8

Apt Elev
1431'

Alt Set: MM (hPa on request) QNH on request **(QFE)**
Trans level: By ATC Trans alt: 5370' **(3939')**

AGERO 1A [AGER1A], Batal 1A [BATA1A]
SINAD 1A [SINA1A]
RWY 01 ARRIVALS

FOR STARS WITHOUT RADAR CONTROL REFER TO CHART 10-2F
FROM WEST



FL CONVERSION
FL69 **FL2100m**

ALT/HEIGHT CONVERSION
QNH (QFE)
5370' (3939' - 1200m)
3400' (1969' - 600m)
2750' (1319' - 400m)

① Within USCM FIR between
MGR R-190 & MGR R-355
west of MGR 9.2 DME do
not fly below 5370' (3939').

USCM/MQF
MAGNITOGORSK

JEPPesen **MAGNITOGORSK, RUSSIA**
26 MAR 10 **10-2C** **Eff 8 Apr** **STAR**

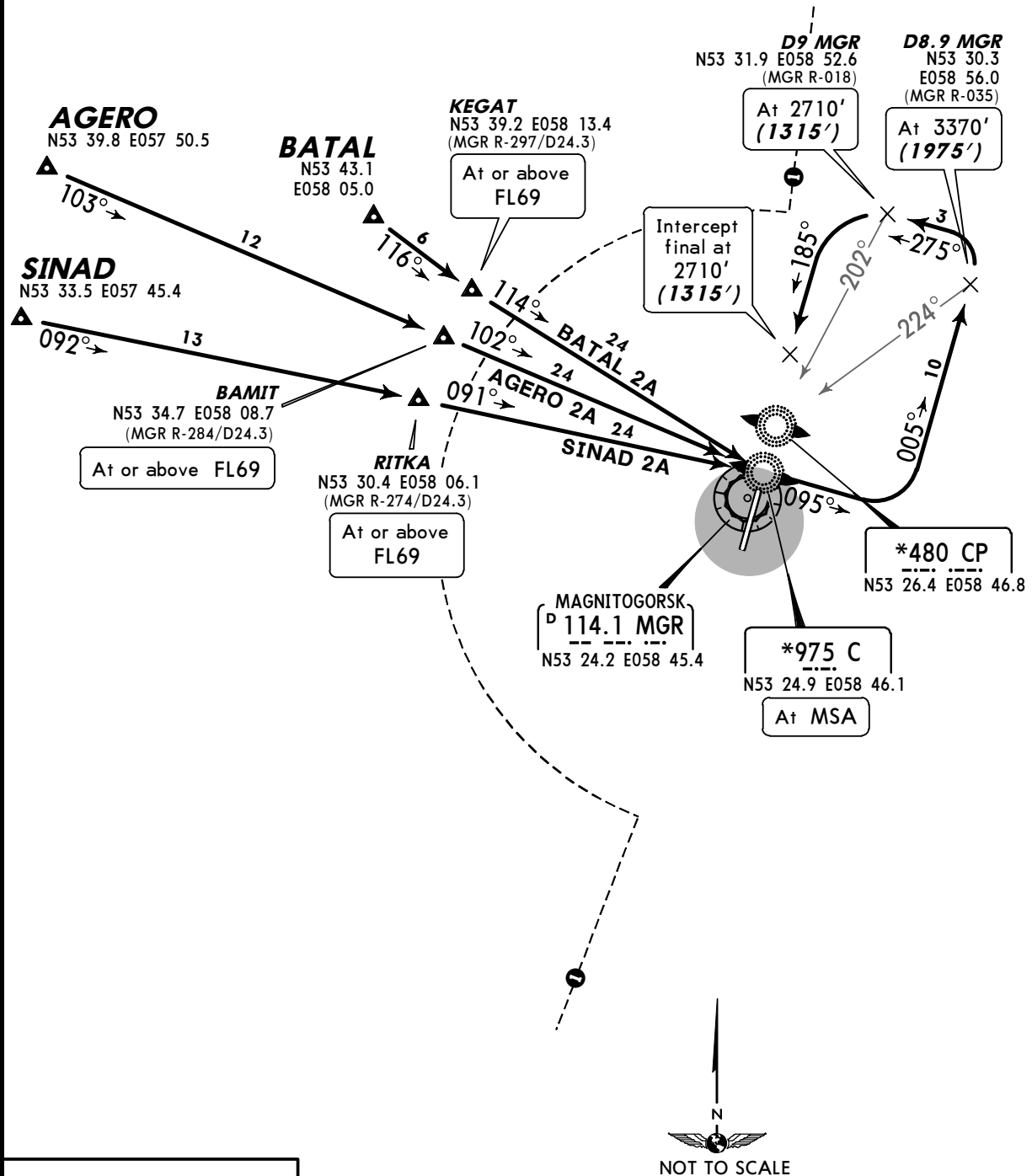
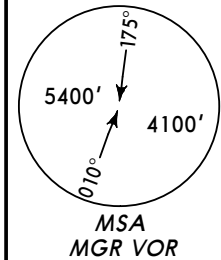
ATIS
132.8

Apt Elev
1431'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 5370' (**3975'**)

AGERO 2A [AGER2A], BATAL 2A [BATA2A]
SINAD 2A [SINA2A]
RWY 19 ARRIVALS

FOR STARS WITHOUT RADAR CONTROL REFER TO CHART 10-2G
FROM WEST



FL CONVERSION
FL69 **FL2100m**

ALT/HEIGHT CONVERSION
QNH (QFE)
5370' (**3975' - 1200m**)
3370' (**1975' - 600m**)
2710' (**1315' - 400m**)

① Within USCM FIR between
MGR R-190 & MGR R-355
west of MGR 9.2 DME do
not fly below 5370' (**3975'**).

USCM/MQF MAGNITOGORSK

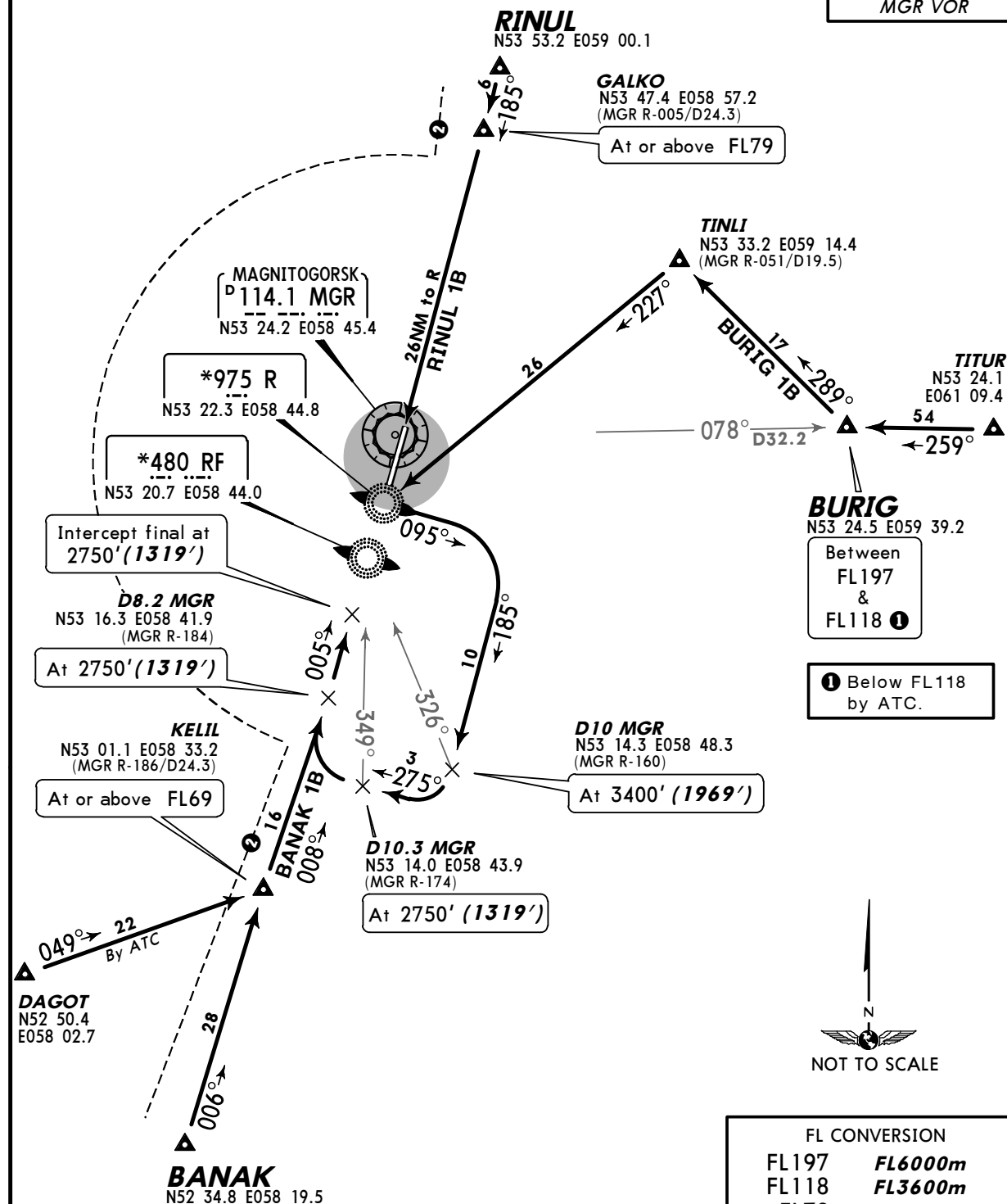
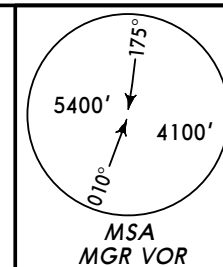
JEPPESSEN **MAGNITOGORSK, RUSSIA**
26 MAR 10 **10-2D** **Eff 8 Apr** **STAR**

ATIS
132.8

Apt Elev
1431'

Alt Set: MM (hPa on request) QNH on request **(QFE)**
Trans level: By ATC Trans alt: 5370' **(3939')**

**BANAK 1B [BANA1B], BURIG 1B [BURI1B]
RINUL 1B [RINU1B]
RWY 01 ARRIVALS
WITHOUT RADAR CONTROL
FROM NORTH, EAST & SOUTH**



FL CONVERSION	
FL197	FL6000m
FL118	FL3600m
FL79	FL2400m
FL69	FL2100m

ALT/HEIGHT CONVERSION	
QNH	(QFE)
5370'	(3939' - 1200m)
3400'	(1969' - 600m)
2750'	(1319' - 400m)

② Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370' (3939').

USCM/MQF
MAGNITOGORSK

26 MAR 10



MAGNITOGORSK, RUSSIA

Eff 8 Apr**STAR**

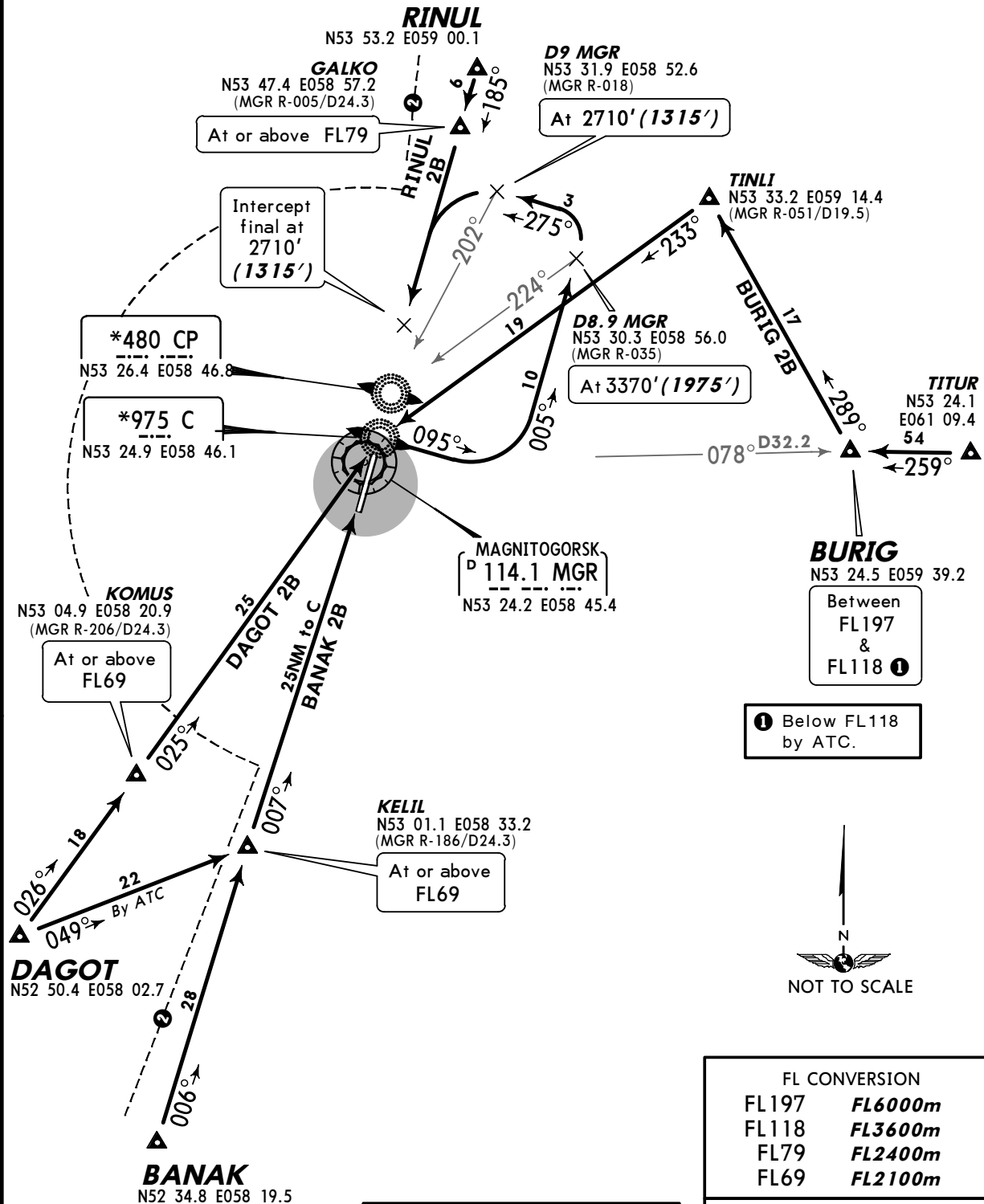
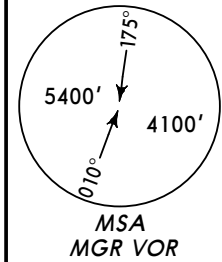
ATIS
132.8

Apt Elev
1431'

Alt Set: MM (hPa on request) QNH on request
Trans level: By ATC Trans alt: 5370' (**3975'**)

(QFE)

**BANAK 2B [BANA2B], BURIG 2B [BURI2B]
DAGOT 2B [DAGO2B], RINUL 2B [RINU2B]
RWY 19 ARRIVALS
WITHOUT RADAR CONTROL
FROM NORTH, EAST & SOUTH**



2 Within USCM FIR between
MGR R-190 & MGR R-355
west of MGR 9.2 DME do
not fly below 5370' **(3975')**.

FL CONVERSION

FL197	<i>FL6000m</i>
FL118	<i>FL3600m</i>
FL79	<i>FL2400m</i>
FL69	<i>FL2100m</i>

ALT/HEIGHT CONVERSION	
QNH	(QFE)
5370'	(3975' - 1200m)
3370'	(1975' - 600m)
2710'	(1315' - 400m)

USCM/MQF
MAGNITOGORSK

JEPPESSEN **MAGNITOGORSK, RUSSIA**
26 MAR 10 **10-2F** **Eff 8 Apr** **STAR**

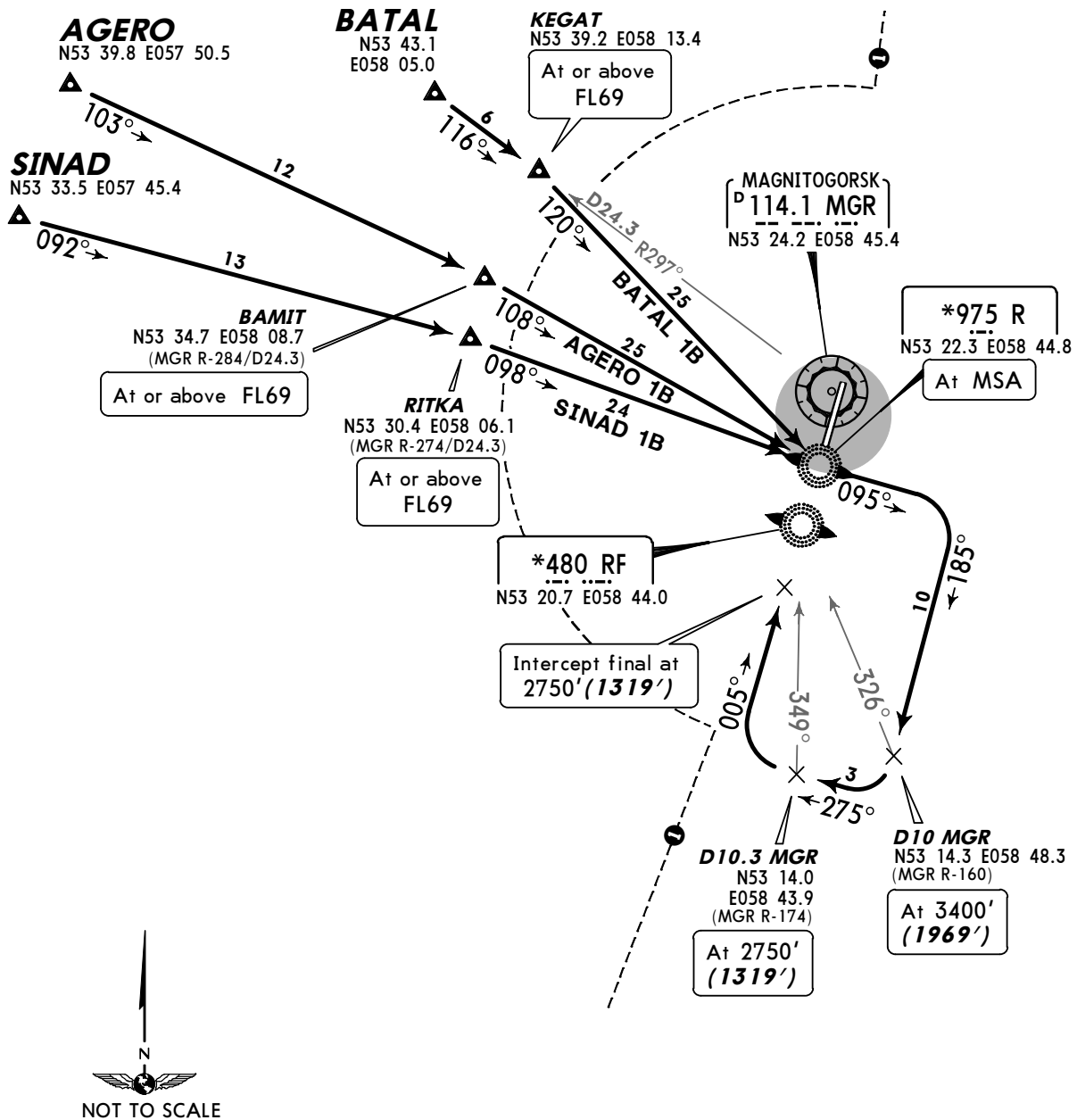
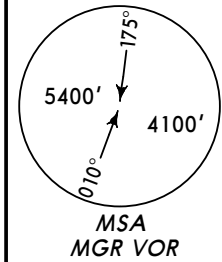
ATIS
132.8

Apt Elev
1431'

Alt Set: MM (hPa on request) QNH on request
Trans level: By ATC Trans alt: 5370' **(3939')**

(QFE)

AGERO 1B [AGER1B], Batal 1B [BATA1B]
SINAD 1B [SINA1B]
RWY 01 ARRIVALS
WITHOUT RADAR CONTROL
FROM WEST



FL CONVERSION
FL69 **FL2100m**

ALT/HEIGHT CONVERSION
QNH (QFE)
5370' **(3939' - 1200m)**
3400' **(1969' - 600m)**
2750' **(1319' - 400m)**

1 Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370' **(3939')**.

USCM/MQF
MAGNITOGORSK

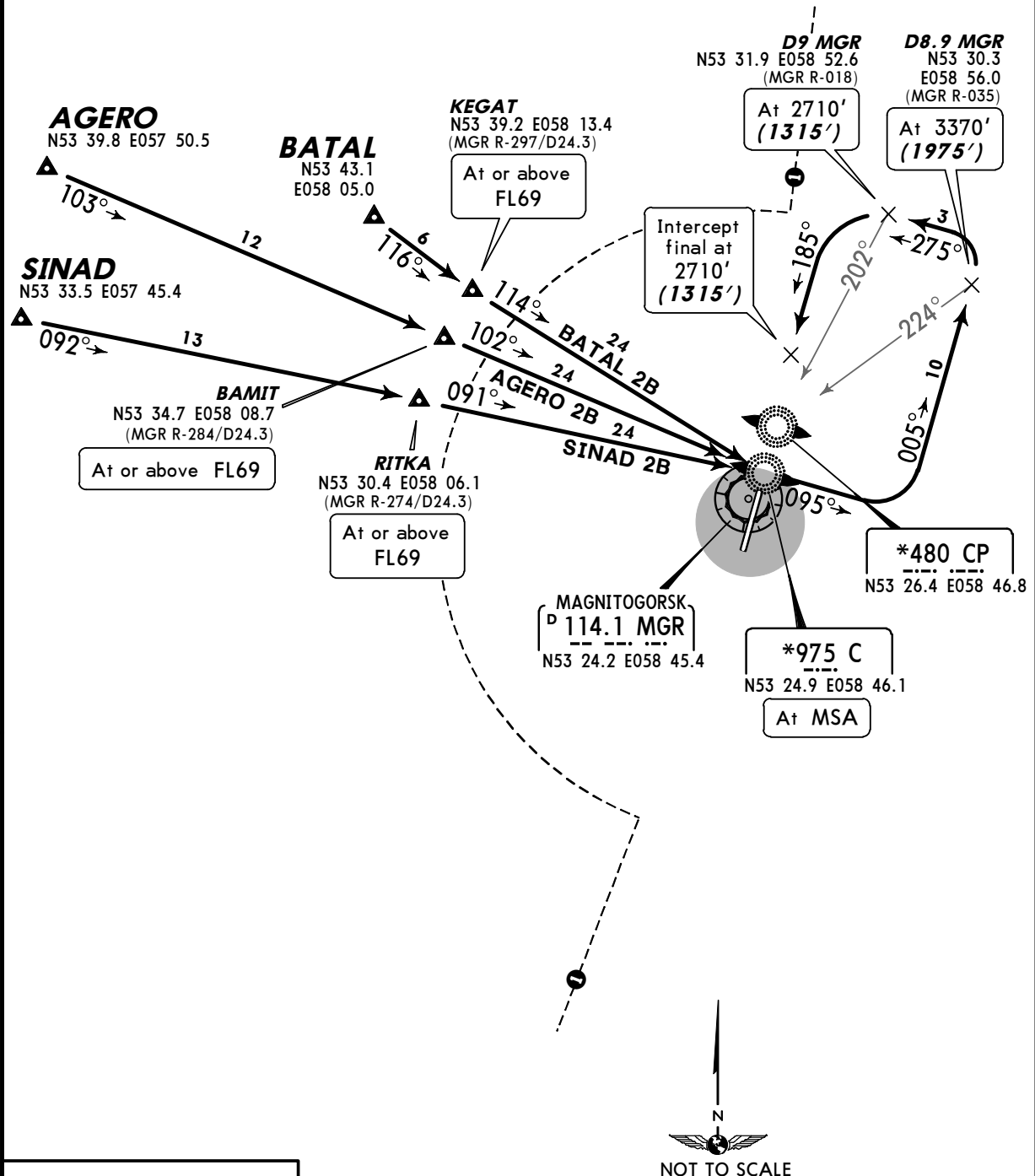
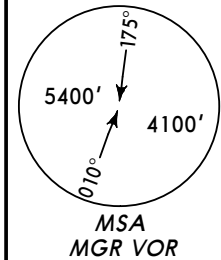
JEPPesen **MAGNITOGORSK, RUSSIA**
26 MAR 10 **(10-2G)** **Eff 8 Apr** **STAR**

ATIS
132.8

Apt Elev
1431'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans alt: 5370' (**3975'**)

AGERO 2B [AGER2B], BATAL 2B [BATA2B]
SINAD 2B [SINA2B]
RWY 19 ARRIVALS
WITHOUT RADAR CONTROL
FROM WEST



FL CONVERSION
FL69 **FL2100m**

ALT/HEIGHT CONVERSION
QNH (QFE)
5370' (**3975' - 1200m**)
3370' (**1975' - 600m**)
2710' (**1315' - 400m**)

① Within USCM FIR between
MGR R-190 & MGR R-355
west of MGR 9.2 DME do
not fly below 5370' (**3975'**).

USCM/MQF
MAGNITOGORSK

8 MAY 09

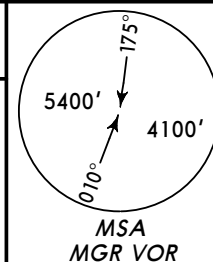
10-3

MAGNITOGORSK, RUSSIA

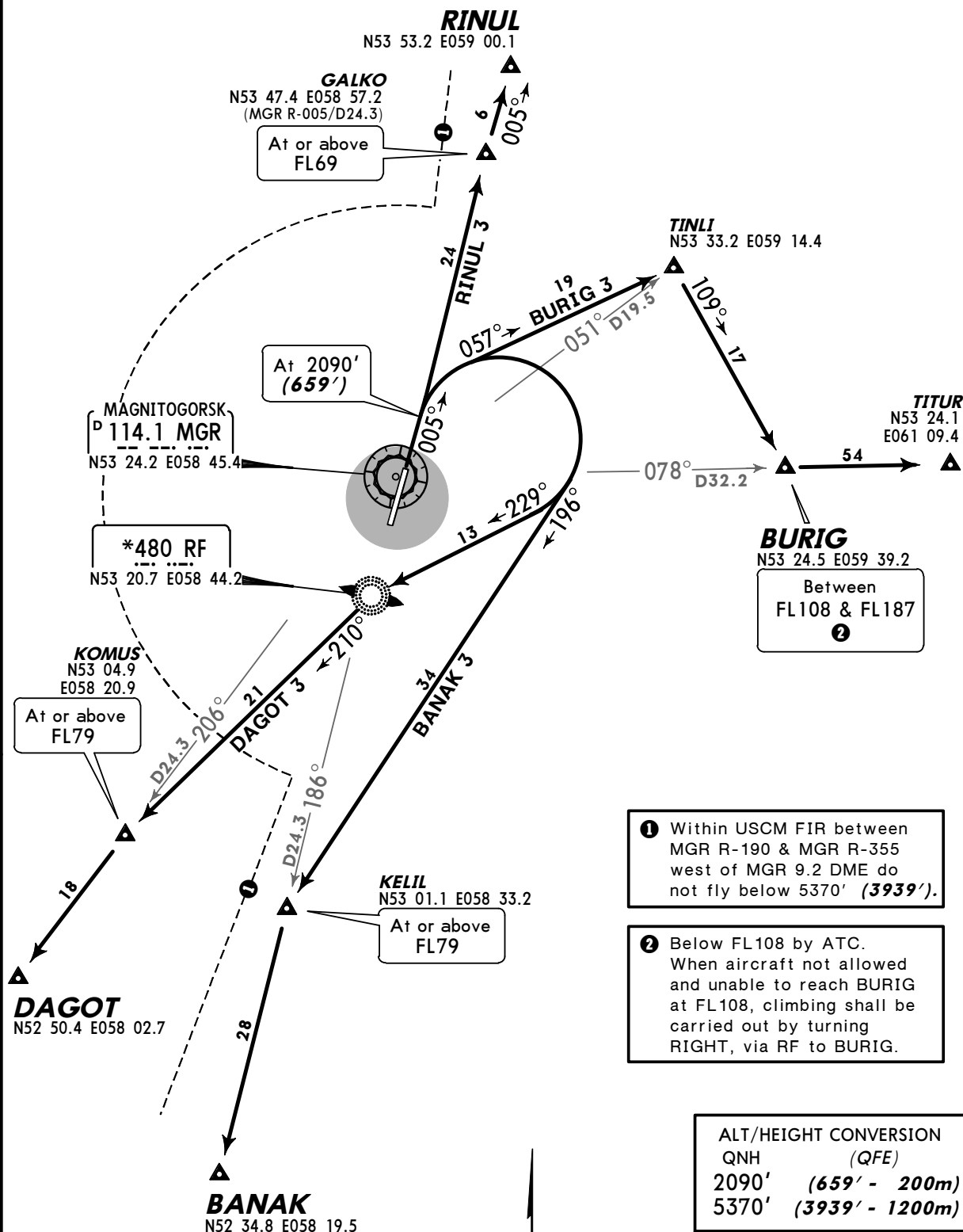
SID

Apt Elev
1431'

QNH on request (QFE)
 Trans level: By ATC Trans alt: 5370' (**3939'**)



BANAK 3, BURIG 3, DAGOT 3, RINUL 3
RWY 01 DEPARTURES
 TO NORTH, EAST & SOUTH



① Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370' (**3939'**).

② Below FL108 by ATC. When aircraft not allowed and unable to reach BURIG at FL108, climbing shall be carried out by turning RIGHT, via RF to BURIG.

ALT/HEIGHT CONVERSION	
QNH	(QFE)
2090'	(659' - 200m)
5370'	(3939' - 1200m)

FL CONVERSION	
FL69	FL2100m
FL79	FL2400m
FL108	FL3300m
FL187	FL5700m



**USCM/MQF
MAGNITOGORSK**

8 MAY 09

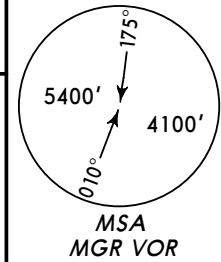
JEPPESEN

MAGNITOGORSK, RUSSIA

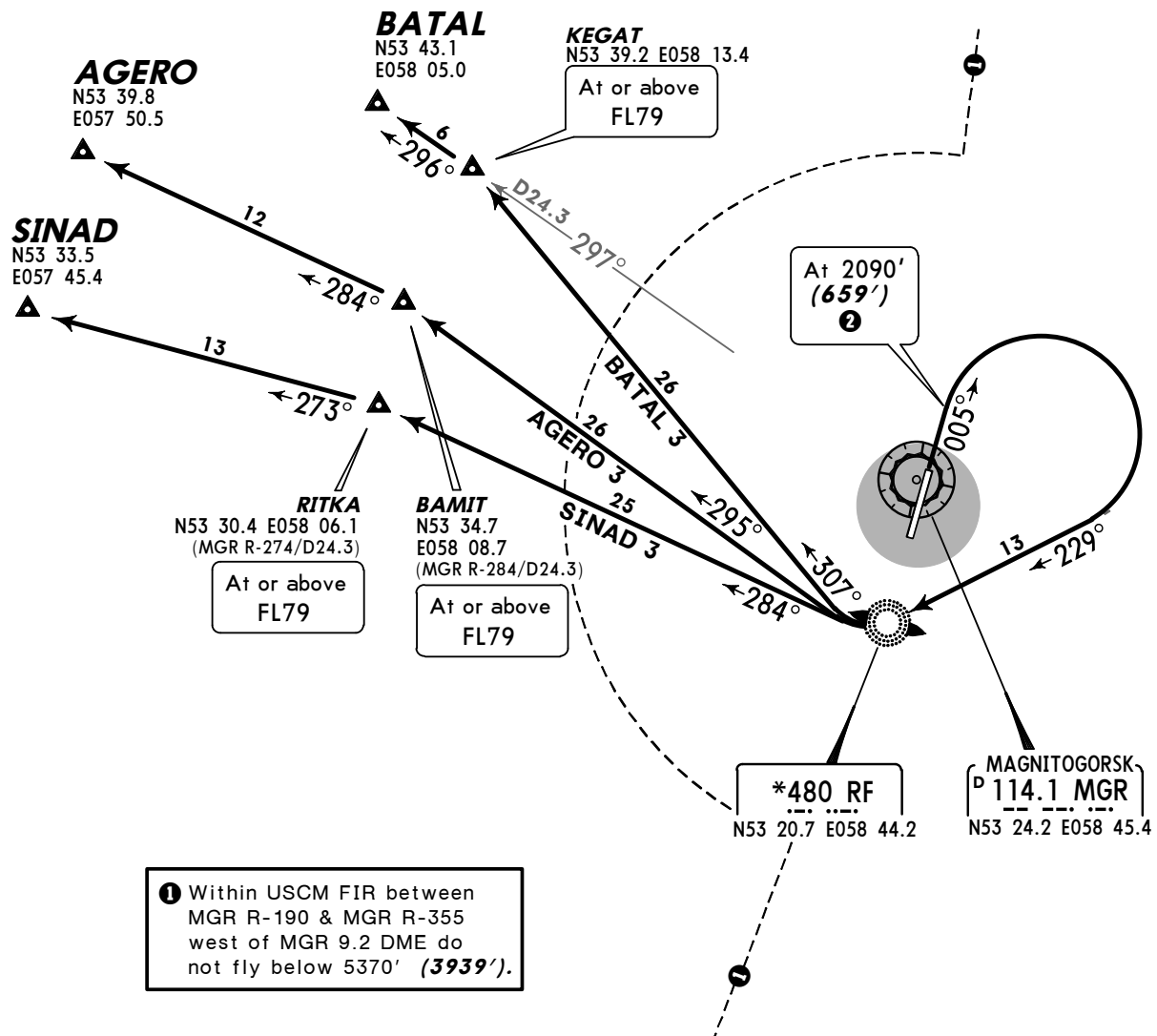
SID

Apt Elev
1431'

QNH on request **(QFE)**
Trans level: By ATC Trans alt: 5370' **(3939')**



AGERO 3, BATAL 3, SINAD 3
RWY 01 DEPARTURES
TO WEST



2 WARNING:

It is allowed to turn LEFT to BAMIT, KEGAT or RITKA with initial turn at 3400' **(1969')** and a minimum climb gradient of 486' per NM (8%) to reach MSA within 9.2 NM from ARP.

Gnd speed-KT	75	100	150	200	250	300
486' per NM	608	810	1215	1620	2025	2430

ALT/HEIGHT CONVERSION	
QNH	(QFE)
2090'	(659' - 200m)
3400'	(1969' - 600m)
5370'	(3939' - 1200m)

FL CONVERSION
FL79 *FL2400m*

USCM/MQF
MAGNITOGORSK

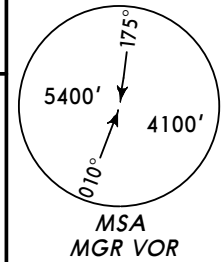
JEPPesen
 8 MAY 09 **(10-3C)**

MAGNITOGORSK, RUSSIA

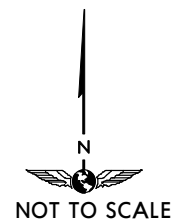
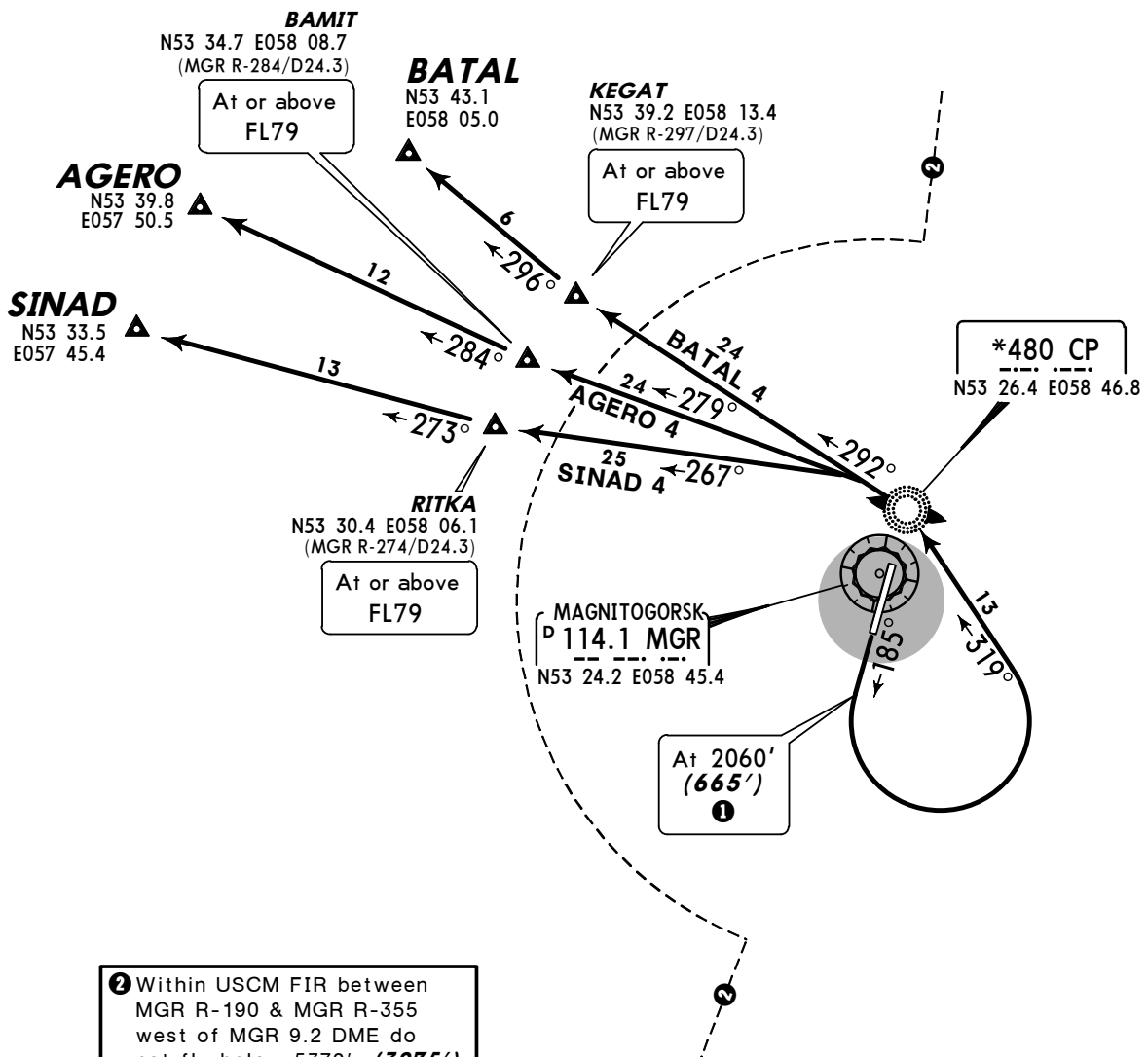
SID

Apt Elev
1431'

QNH on request **(QFE)**
 Trans level: By ATC Trans alt: 5370' **(3975')**



AGERO 4, BATAL 4, SINAD 4
RWY 19 DEPARTURES
TO WEST



① WARNING:

It is allowed to turn RIGHT to BAMIT, KEGAT or RITKA with initial turn at 3370' (1975') and a minimum climb gradient of 486' per NM (8%) to reach MSA within 9.2 NM from ARP.

Gnd speed-KT	75	100	150	200	250	300
486' per NM	608	810	1215	1620	2025	2430

ALT/HEIGHT CONVERSION	
QNH	(QFE)
2060'	(665' - 200m)
3370'	(1975' - 600m)
5370'	(3975' 1200m)

FL CONVERSION
 FL79 **FL2400m**

USCM/MQF

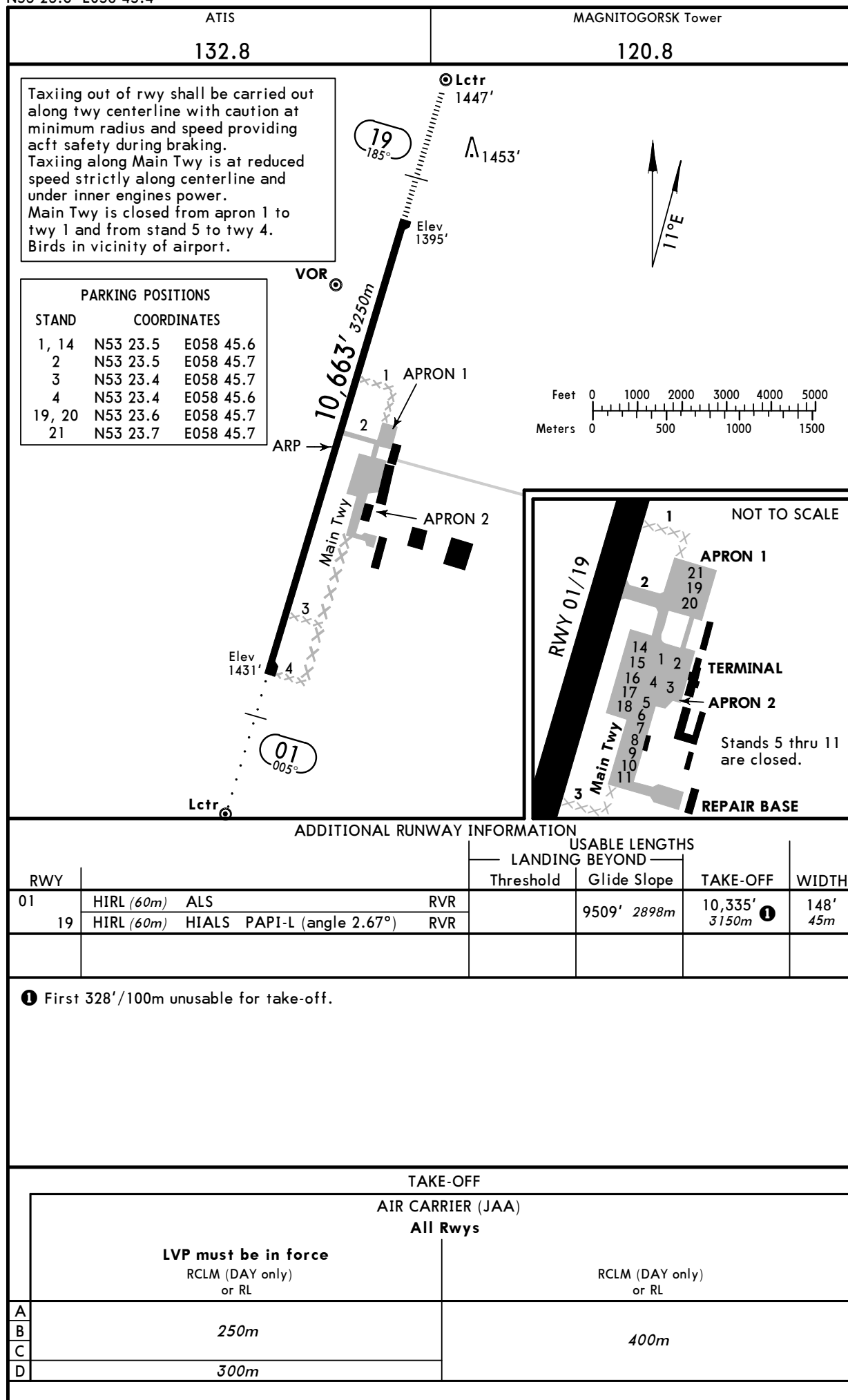
Apt Elev **1431'**
N53 23.6 E058 45.4

JEPPESEN

9 APR 10 **(10-9)**

MAGNITOGORSK, RUSSIA

MAGNITOGORSK



USCM/MQF


JEPPESEN
 1 OCT 10 **10-9S**
Standard
MAGNITOGORSK, RUSSIA
 MAGNITOGORSK

STRAIGHT-IN RWY		A	B	C	D
01	ILS	1631'(200') R1000m	1631'(200') R1000m	1631'(200') R1000m	1631'(200') R1000m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ❶	1720'(289') R1200m	1720'(289') R1200m	1720'(289') R1200m	1720'(289') R1200m
	ALS out	R1400m	R1400m	R1400m	R1400m
	NDB ❶ ❷	1740'(309') R1200m	1740'(309') R1200m	1740'(309') R1200m	1740'(309') R1200m
	ALS out	R1400m	R1400m	R1400m	R1400m
	NDB ❸	2400'(969') C4500m	2400'(969') C4500m	2400'(969') C4700m	2400'(969') C4700m
	ALS out	C4700m	C4700m	C4900m	C4900m
19	ILS	1595'(200') R550m	1595'(200') R550m	1595'(200') R550m	1595'(200') R550m
	FULL	R750m	R750m	R750m	R750m
	Limited	R1200m	R1200m	R1200m	R1200m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ❶	1720'(325') R800m	1720'(325') R800m	1720'(325') R800m	1720'(325') R800m
	ALS out	R1500m	R1500m	R1500m	R1500m
	NDB ❶ ❷	1720'(325') R800m	1720'(325') R800m	1720'(325') R800m	1720'(325') R800m
	ALS out	R1500m	R1500m	R1500m	R1500m
	NDB ❸	2200'(805') C3300m	2200'(805') C3300m	2200'(805') C3500m	2200'(805') C3500m
	ALS out	C4000m	C4000m	C4200m	C4200m

- ❶ Continuous Descent Final Approach
 ❷ With D6.0 MGR
 ❸ W/o D6.0 MGR
 ❹ With D4.7 MGR
 ❺ W/o D4.7 MGR

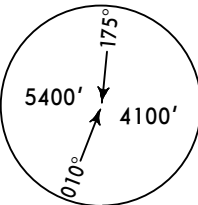
TAKE-OFF RWY 01, 19

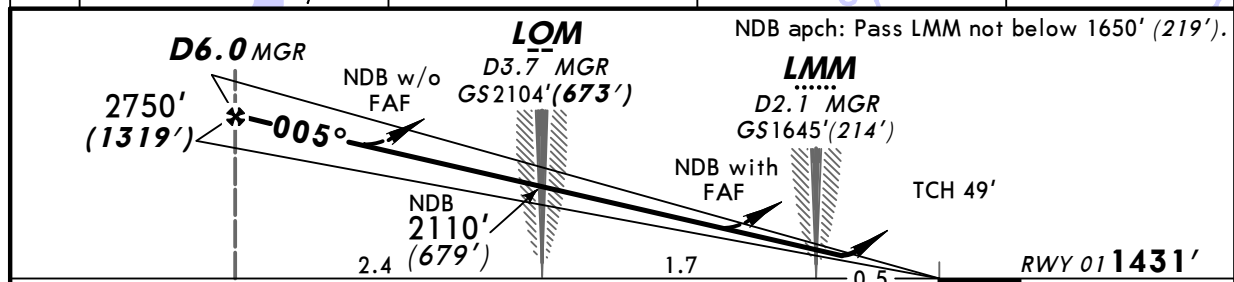
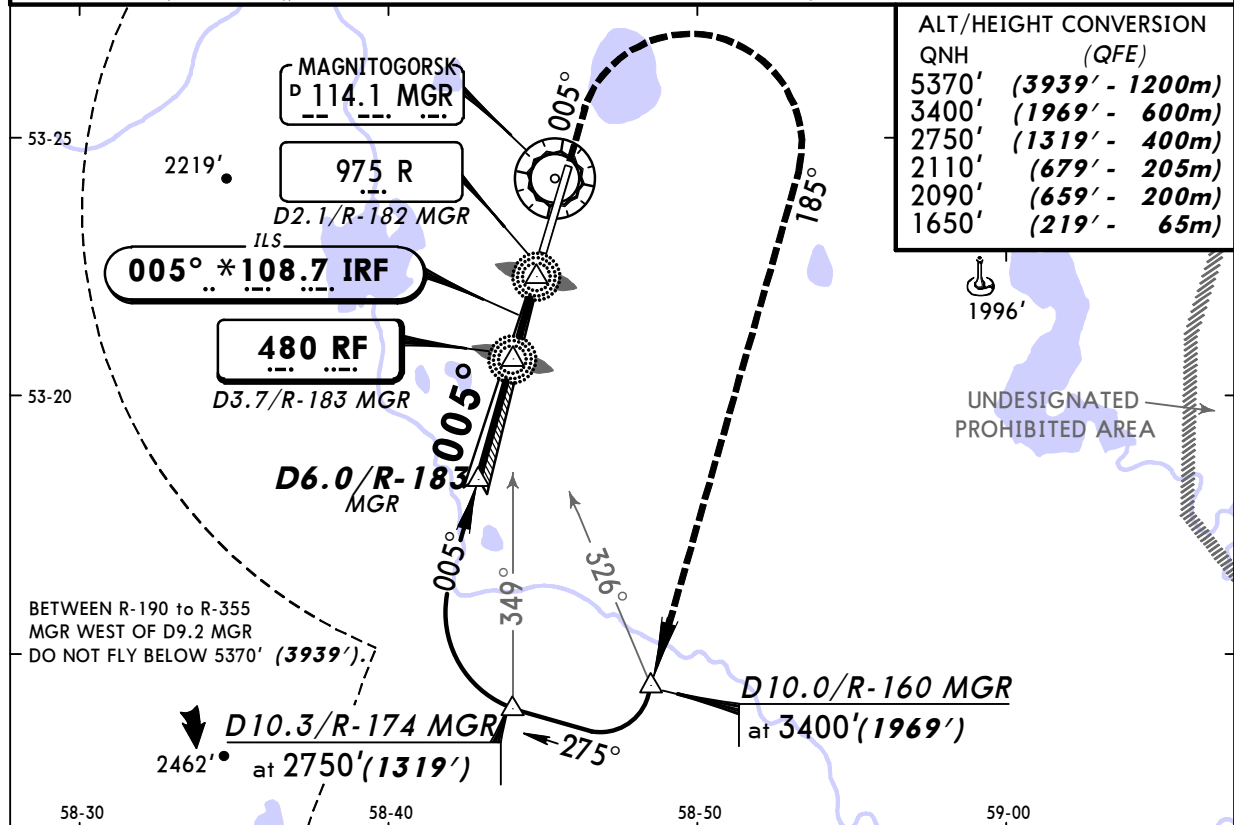
LVP must be in Force			
	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A			
B	250m	400m	500m
C			
D	300m		

USCM/MQF MAGNITOGORSK

JEPPesen MAGNITOGORSK, RUSSIA
21 MAY 10 **11-1** Eff 3 Jun ILS or 2 NDB Rwy 01

BRIEFING STRIP

ATIS				MAGNITOGORSK Tower		
132.8				120.8		
LOC IRF *108.7	Final Apch Crs 005°	GS LOM 2104'(673')	ILS DA(H) 1631'(200')	Apt Elev 1431' RWY 1431'		
NDB RF 480		Minimum Alt D6.0 MGR 2750'(1319')	NDB MDA(H) (CONDITIONAL) 1740'(309')			
MISSED APCH: Climb on 005° to 2090'(659'), then turn RIGHT onto 185° climbing to 3400'(1969'), then according to chart.						MSA MGR VOR
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: By ATC		
				Trans alt: 5370' (3939')		



Gnd speed-Kts	70	90	100	120	140	160	ALS	2090' (659')	on 005°	185°	3400' (1969')
ILS GS or NDB Desc angle 2.67°	336	432	480	576	671	767	...	↑		RT	↑

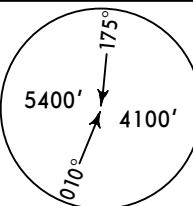
STRAIGHT-IN LANDING RWY 01					
ILS DA(H) 1631' (200')		LOC (GS out)	NDB with FAF MDA(H) 1740' (309')		NDB w/o FAF MDA(H) 2400' (969')
FULL	ALS out		ALS out		ALS out
A					
B					
C	1200m	NOT AUTH	RVR 1500m VIS 1600m		3200m
D					4800m

PANS OPS

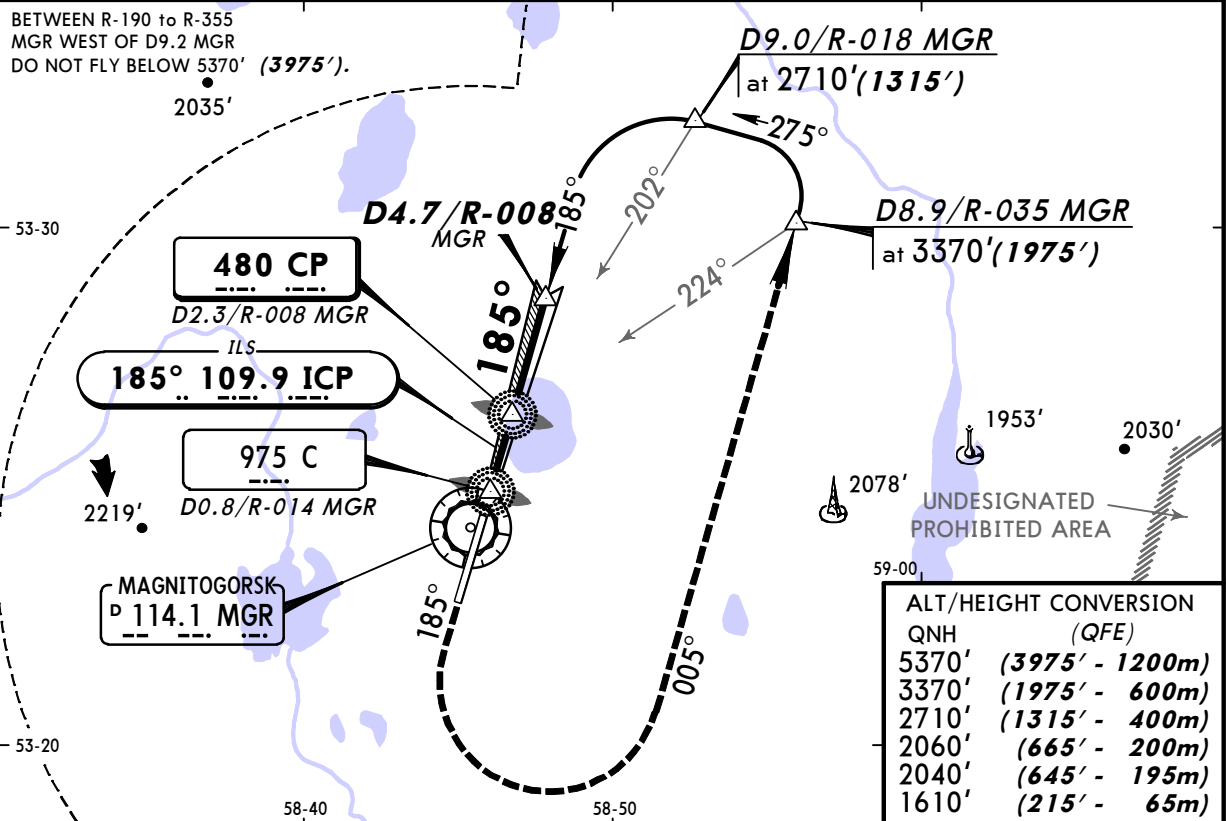
USCM/MQF MAGNITOGORSK

JEPPesen MAGNITOGORSK, RUSSIA
21 MAY 10 **11-2** Eff 3 Jun ILS or 2 NDB Rwy 19

BRIEFING STRIP

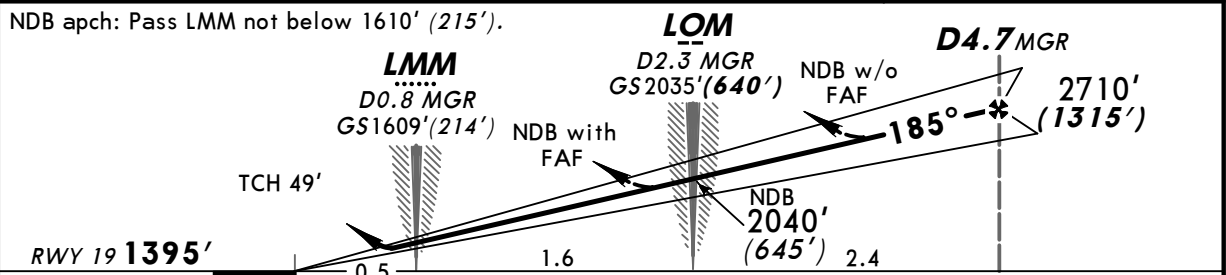
ATIS				MAGNITOGORSK Tower		
132.8				120.8		
LOC ICP 109.9	Final Apch Crs 185°	GS LOM 2035' (640')	ILS DA(H) 1595' (200')	Apt Elev 1431' RWY 1395'		
NDB CP 480		Minimum Alt D4.7 MGR 2710' (1315')	NDB MDA(H) (CONDITIONAL) 1720' (325')			
MISSED APCH: Climb on 185° to 2060' (665'), then turn LEFT onto 005° climbing to 3370' (1975'), then according to chart.					MSA MGR VOR	
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: By ATC		

BETWEEN R-190 to R-355
MGR WEST OF D9.2 MGR
DO NOT FLY BELOW 5370' (3975').



ALT/HEIGHT CONVERSION	
QNH	(QFE)
5370'	(3975' - 1200m)
3370'	(1975' - 600m)
2710'	(1315' - 400m)
2060'	(665' - 200m)
2040'	(645' - 195m)
1610'	(215' - 65m)

NDB apch: Pass LMM not below 1610' (215').



Gnd speed-Kts	70	90	100	120	140	160	HIALS	2060' (665') on 185°	005° LT	3370' (1975')
ILS GS or NDB Desc angle 2.67°	336	432	480	576	671	767	PAP			

STRAIGHT-IN LANDING RWY 19						
ILS DA(H) 1595' (200')		LOC (GS out)	NDB with FAF MDA(H) 1720' (325')		NDB w/o FAF MDA(H) 2200' (805')	
FULL	ALS out			ALS out		ALS out
A						
B						
C	RVR 720m VIS 800m	1200m	NOT AUTH	1200m	RVR 1500m VIS 1600m	3200m
D						3600m
						3600m
						4000m

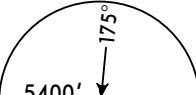
PANS OPS

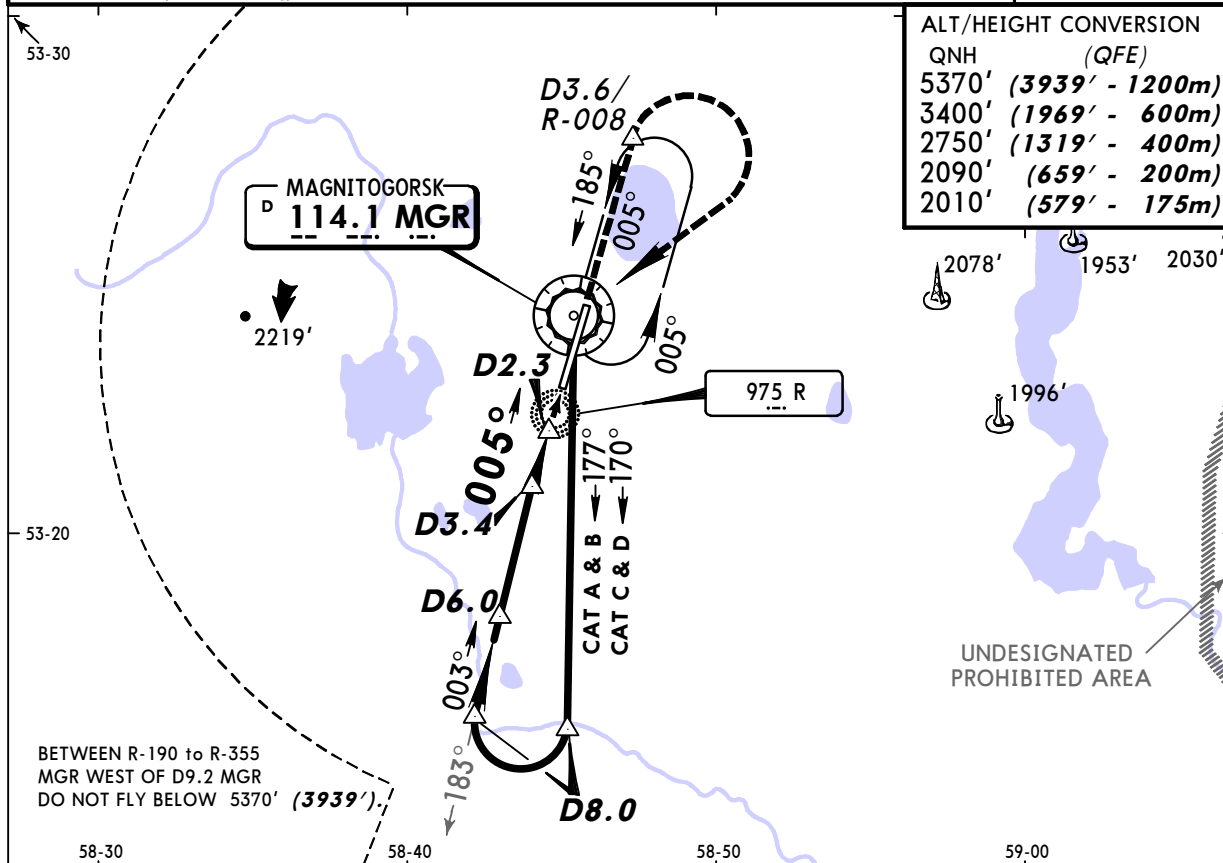
USCM/MQF MAGNITOGORSK

JEPPesen 21 MAY 10 **13-1** **Eff 3 Jun**

MAGNITOGORSK, RUSSIA VOR DME Rwy 01

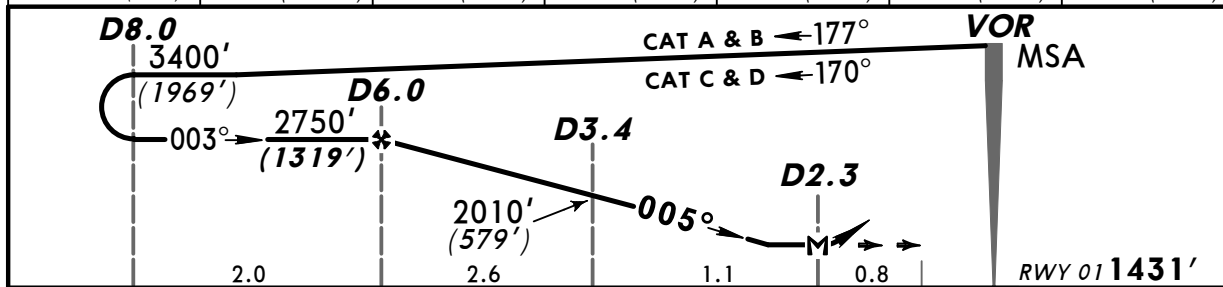
BRIEFING STRIP

ATIS				MAGNITOGORSK Tower	
132.8				120.8	
VOR MGR 114.1	Final Apch Crs 005°	Minimum Alt D6.0 2750'(1319')	MDA(H) 1720'(289')	Apt Elev 1431' RWY 1431'	
MISSED APCH: Climb on 005° to 2090'(659') or above. At D3.6 turn RIGHT to VOR climbing to 3400'(1969'), then according to chart.					
Alt Set: MM (hPa on req) QNH on req(QFE) Trans level: By ATC Trans alt: 5370(3939')					
					MSA MGR VOR



ALT/HEIGHT CONVERSION	
QNH	(QFE)
5370'	(3939' - 1200m)
3400'	(1969' - 600m)
2750'	(1319' - 400m)
2090'	(659' - 200m)
2010'	(579' - 175m)

MGR DME	5.3	4.8	4.2	3.7	3.2	2.6
ALTITUDE (HAT)	2570' (1139')	2400' (969')	2260' (829')	2090' (659')	1940' (509')	1800' (369')



Gnd speed-Kts	70	90	100	120	140	160	ALS 	MIM 2090' (659') on 005°
Descent angle	2.67°	331	425	472	567	661		
MAP at D2.3								

STRAIGHT-IN LANDING RWY 01					
MDA(H) 1720'(289')					
		ALS out			
A	RVR 1500m VIS 1600m				
B					
C					
D					

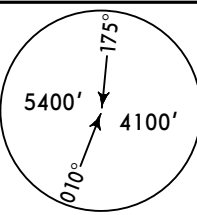
PANS OPS

USCM/MQF
MAGNITOGORSK

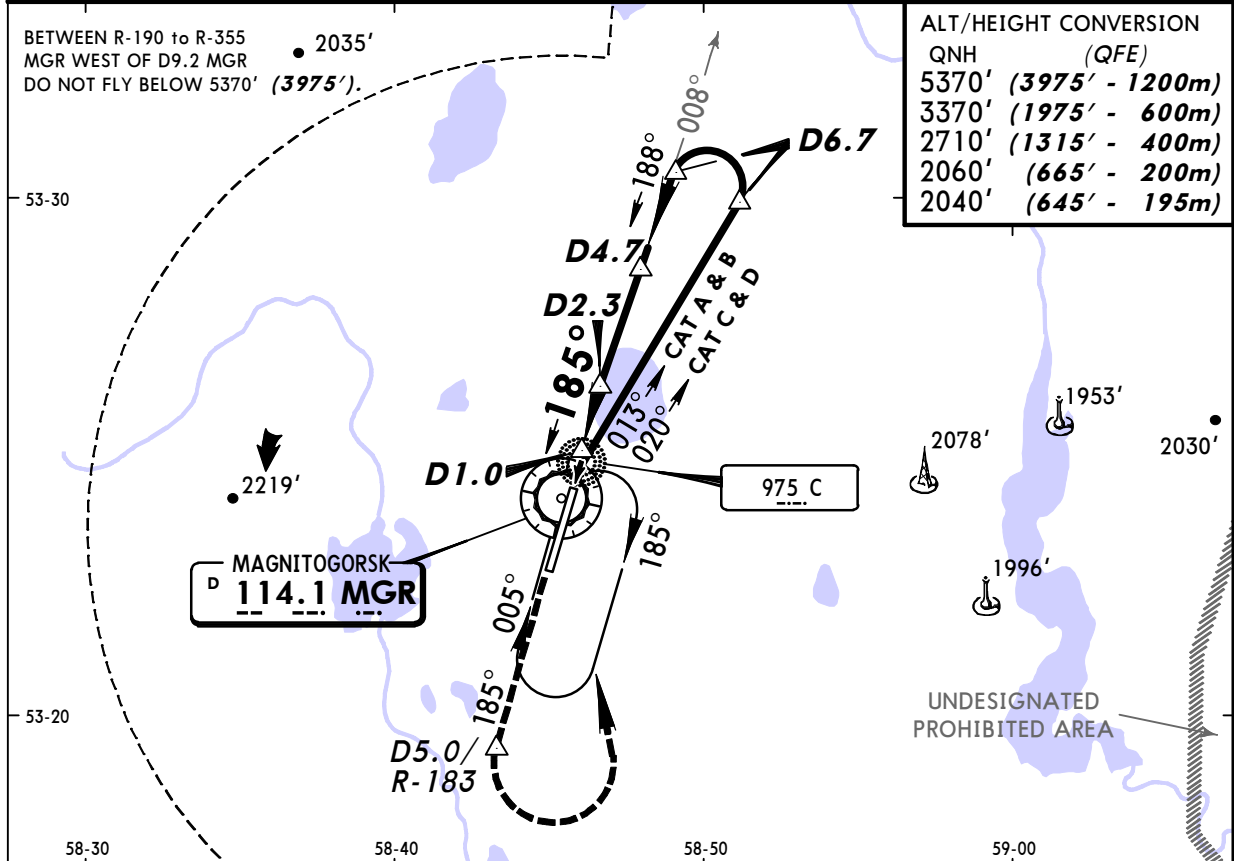
JEPPesen 21 MAY 10 **(13-2)** **Eff 3 Jun**

MAGNITOGORSK, RUSSIA
VOR DME Rwy 19

BRIEFING STRIP

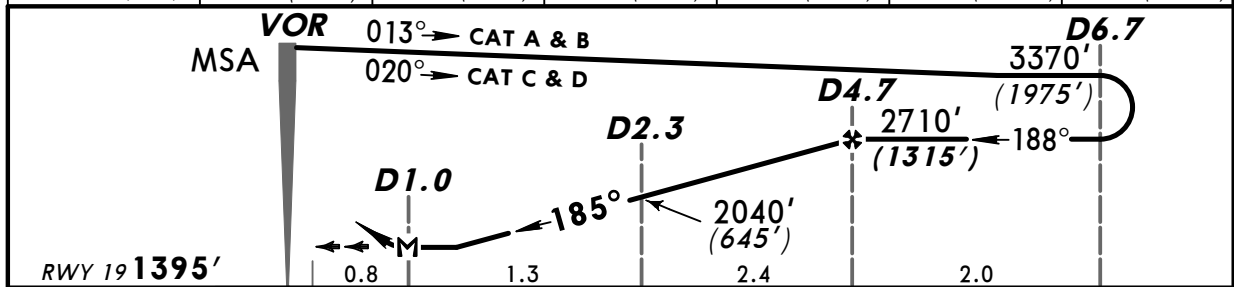
ATIS				MAGNITOGORSK Tower		
132.8				120.8		
VOR MGR 114.1	Final Apch Crs 185°	Minimum Alt D4.7 2710'(1315')	MDA(H) 1720'(325')	Apt Elev 1431'		
MISSED APCH: Climb on 185° to 2060'(665') or above. At D5.0 turn LEFT to VOR climbing to 3370'(1975'), then according to chart.						
Alt Set: MM (hPa on req) QNH on req(QFE) Trans level: By ATC Trans alt: 5370'(3975')						
MSA MGR VOR						

BETWEEN R-190 to R-355
MGR WEST OF D9.2 MGR
DO NOT FLY BELOW 5370' (3975').



ALT/HEIGHT CONVERSION	
QNH	(QFE)
5370'	(3975' - 1200m)
3370'	(1975' - 600m)
2710'	(1315' - 400m)
2060'	(665' - 200m)
2040'	(645' - 195m)

MGR DME	1.3	1.8	2.9	3.5	4.0	4.5
ALTITUDE (HAT)	1760' (365')	1910' (515')	2220' (825')	2370' (975')	2530' (1135')	2680' (1285')



Gnd speed-Kts	70	90	100	120	140	160		MIM 2060' (665') on 185°
Descent angle	2.67°	331	425	472	567	661		
MAP at D1.0								

STRAIGHT-IN LANDING RWY 19							
MDA(H) 1720' (325')							
				ALS out			
A							
B	1200m			RVR 1500m VIS 1600m			
C							
D	RVR 1500m VIS 1600m						

PANS OPS

CHANGES: MDA(H).

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