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Terminal Charts For USCM
Revision Letter For Cycle 01-2014
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Notebook

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General Information

Location: Magnitogorsk Rus
IATA Code: MQF
Lat/Long: N53° 23.6' E058° 45.4'
Elevation: 1430 ft

Airport Use: Public
Magnetic Variation: 12.1°E

Fuel Types: Jet A-1
Repair Types: Minor Airframe, Minor Engine
Customs: Yes
Airport Type: IFR
Landing Fee: Yes
Control Tower: Yes
Jet Start Unit: No
LLWS Alert: No
Beacon: No

Sunrise: 0419 Z
Sunset: 1202 Z,

Runway Information

Runway: 01
Length x Width: 10663 ft x 148 ft
Surface Type: concrete
TDZ-Elev: 1430 ft
Lighting: Edge, ALS

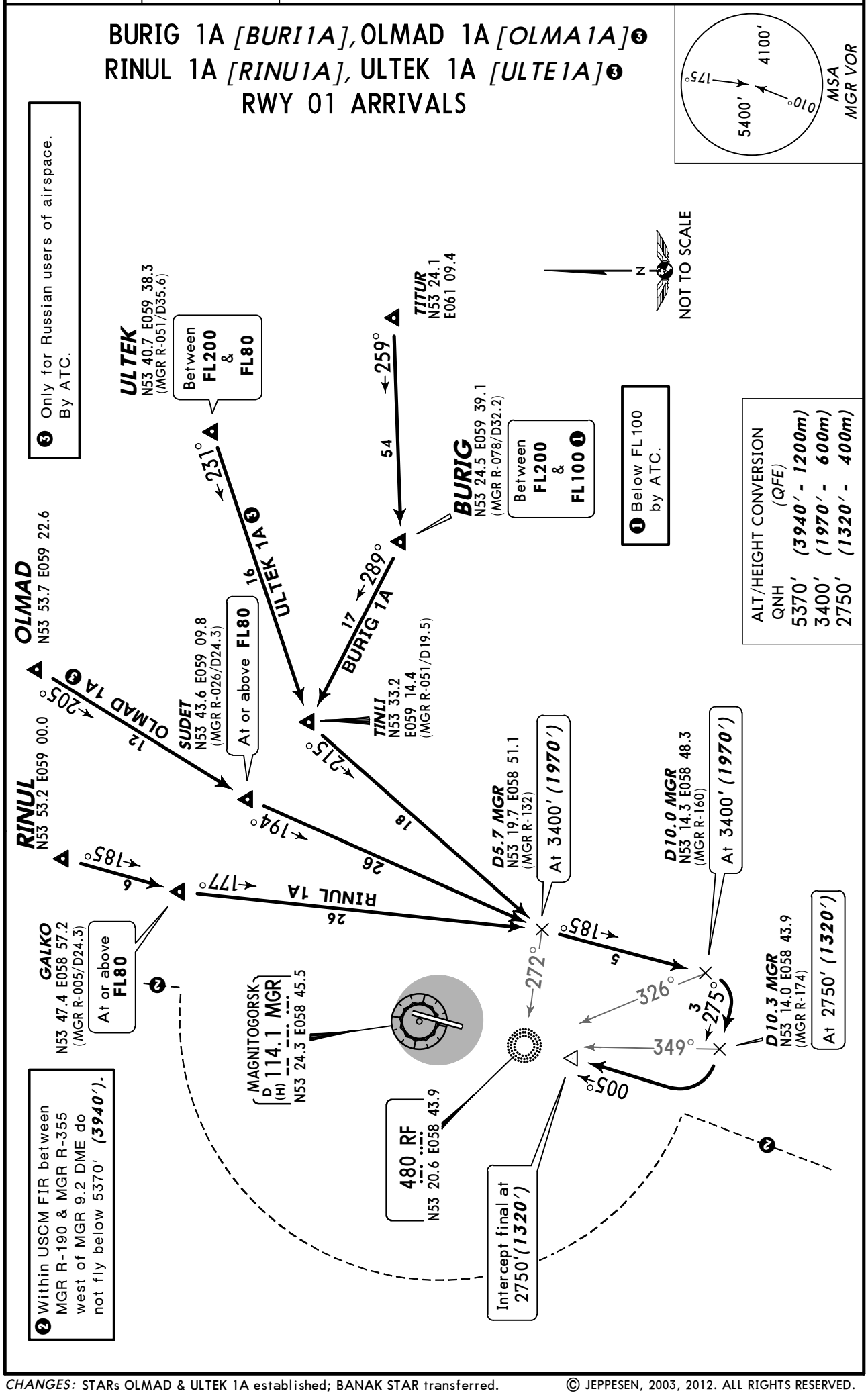
Runway: 19
Length x Width: 10663 ft x 148 ft
Surface Type: concrete
TDZ-Elev: 1394 ft
Lighting: Edge, ALS

Communication Information

ATIS 132.8
Magnitogorsk Tower 124.0 Secondary
Magnitogorsk Tower 120.8

ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3940′)***

BURIG 1A *[BURI1A]*, OLMAD 1A *[OLMA1A]*❸
RINUL 1A *[RINU1A]*, ULTEK 1A *[ULTE1A]*❸
RWY 01 ARRIVALS



CHANGES: STARs OLMAD & ULTEK 1A established; BANAK STAR transferred.

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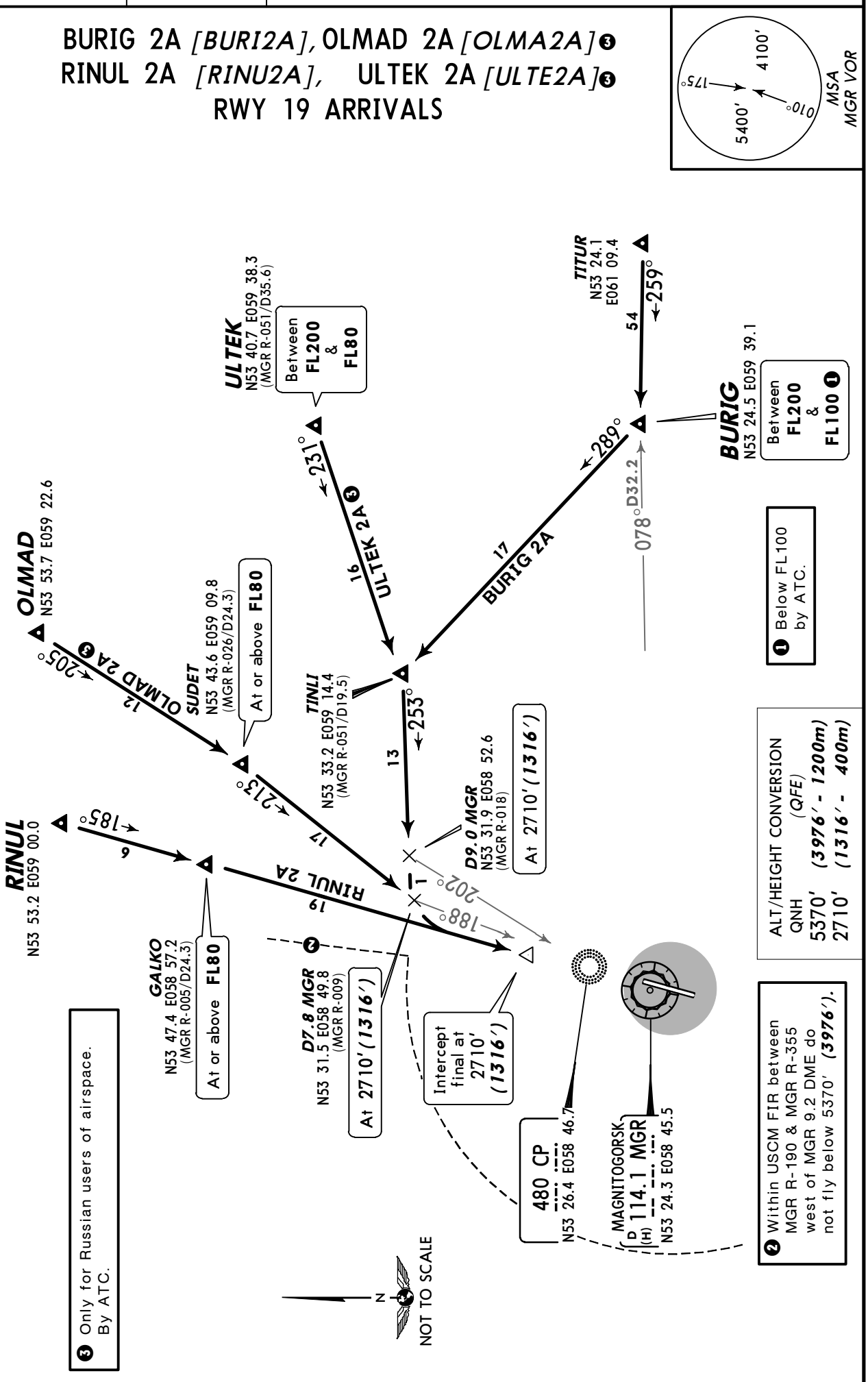
ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3976′)***

BURIG 2A *[BURI2A]*, OLMAD 2A *[OLMA2A]* ❸
RINUL 2A *[RINU2A]*, ULTEK 2A *[ULTE2A]* ❸
RWY 19 ARRIVALS



CHANGES: STARs OLMAD & ULTEK 2A established; STARs transferred.

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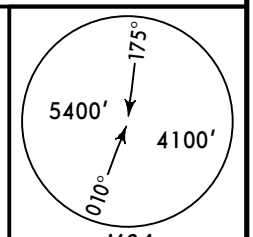
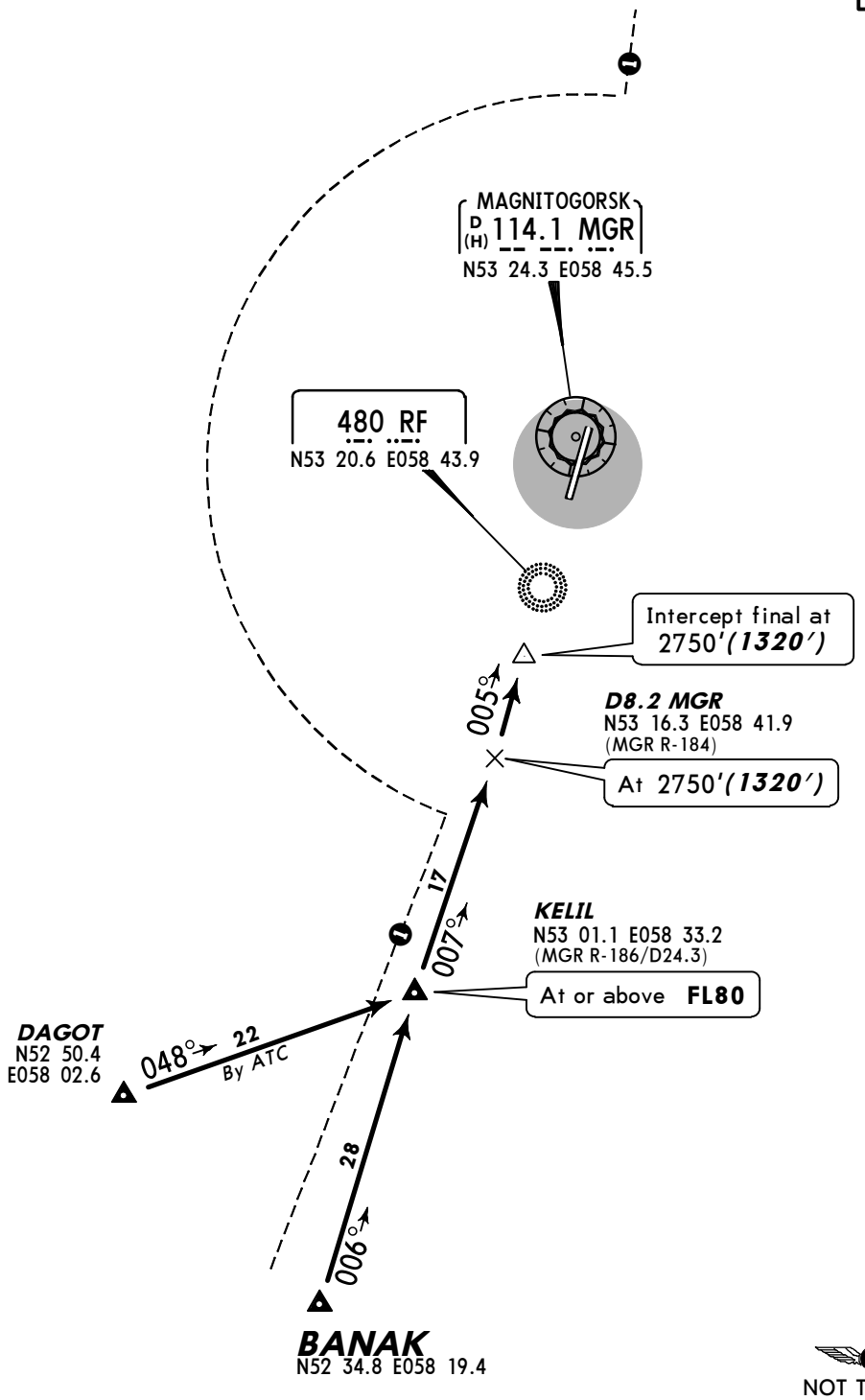
ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3940′)***

BANAK 1A *[BANA1A]*
RWY 01 ARRIVAL





❶ Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370′ ***(3940′).***

ALT/HEIGHT CONVERSION

QNH	*(QFE)*
5370′	***(3940′ - 1200m)***
2750′	***(1320′ - 400m)***

CHANGES: STAR transferred.

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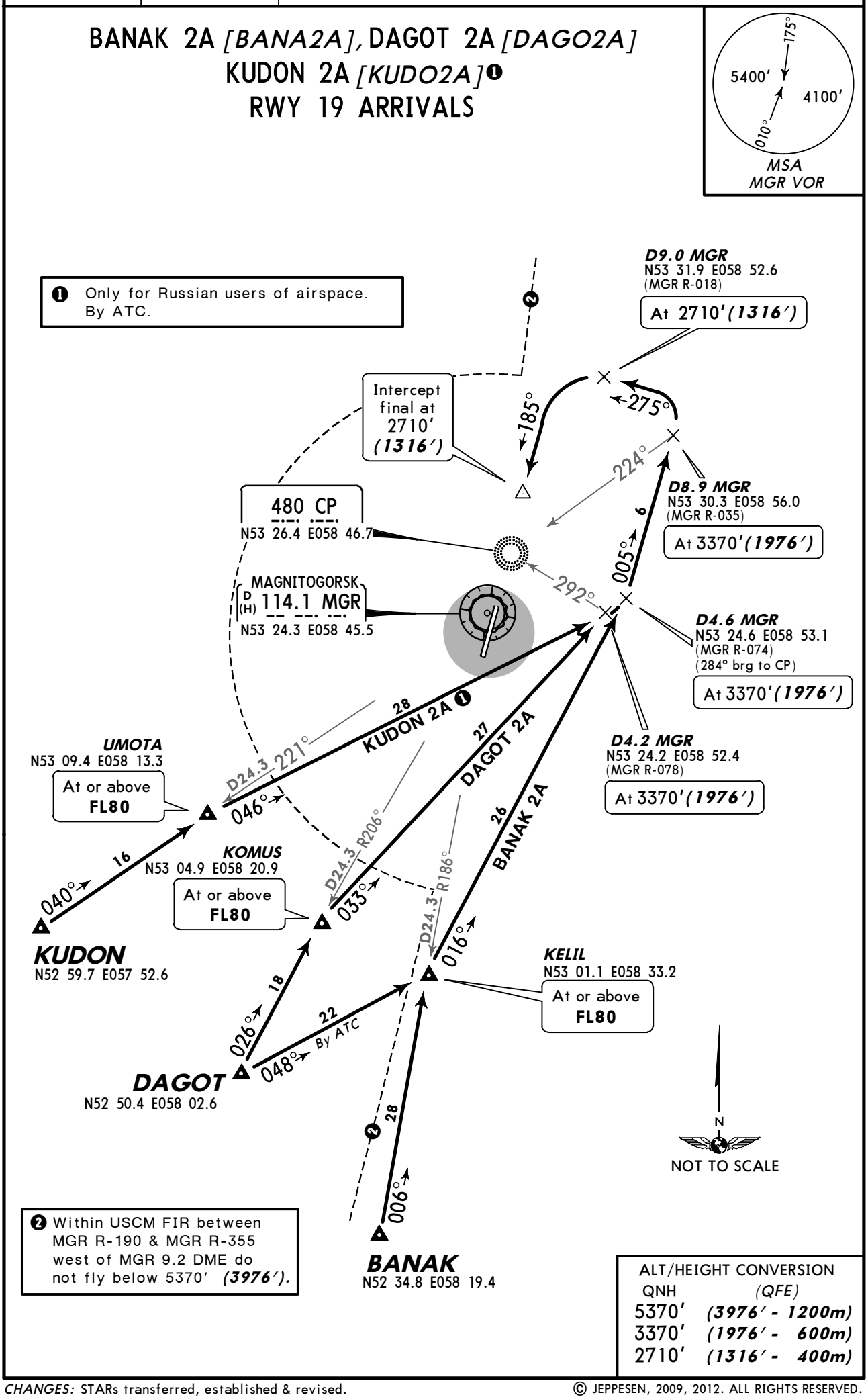
ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3976′)***

BANAK 2A *[BANA2A]*, DAGOT 2A *[DAGO2A]* KUDON 2A *[KUDO2A]*❶ RWY 19 ARRIVALS



ALT/HEIGHT CONVERSION

QNH	(QFE)
5370′	***(3976′ - 1200m)***
3370′	***(1976′ - 600m)***
2710′	***(1316′ - 400m)***

CHANGES: STARs transferred, established & revised.

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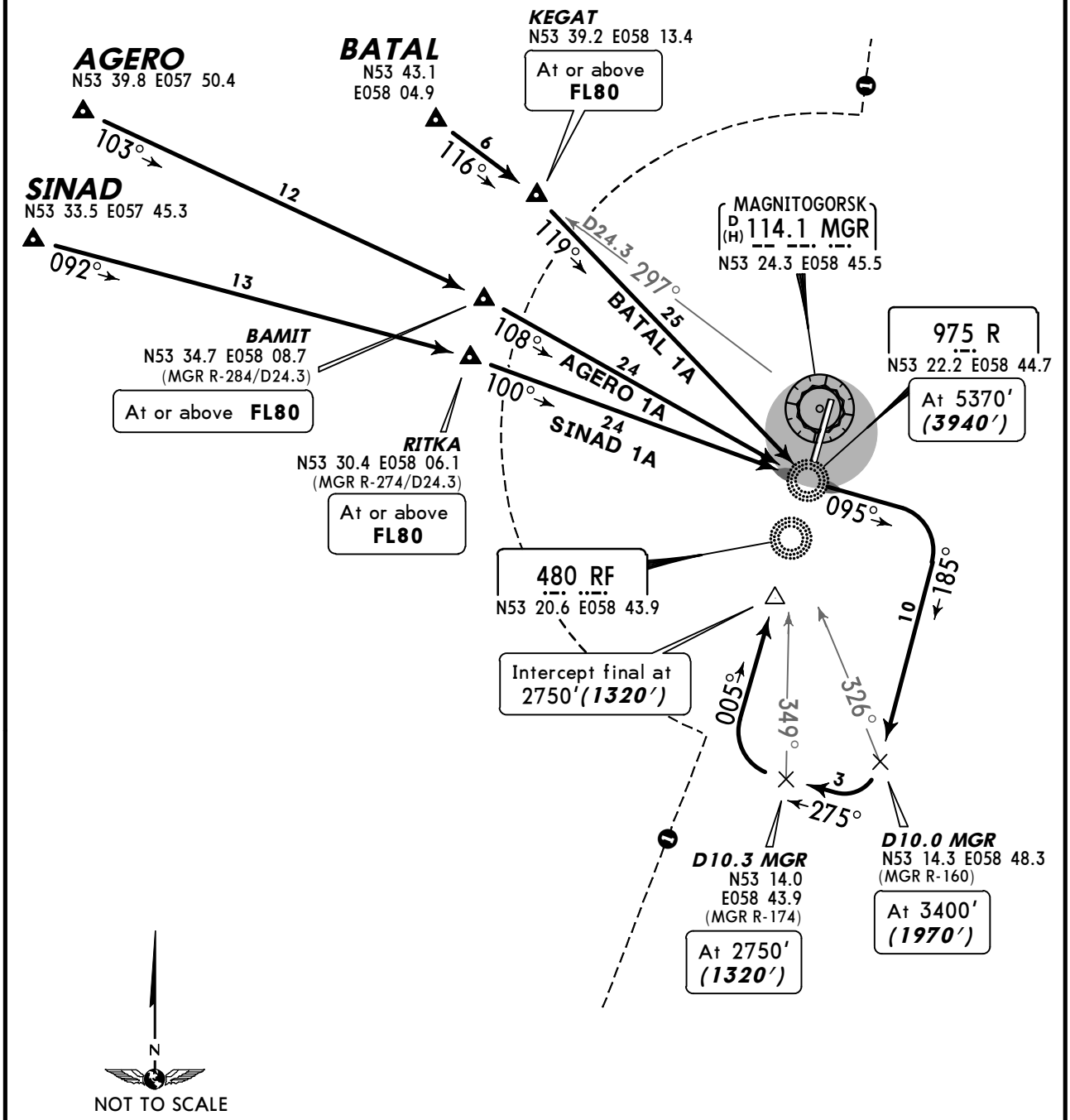
ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3940′)***

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



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ALT/HEIGHT CONVERSION

QNH	*(QFE)*
5370′	***(3940′ - 1200m)***
3400′	***(1970′ - 600m)***
2750′	***(1320′ - 400m)***

CHANGES: Crossings; chart reindexed.

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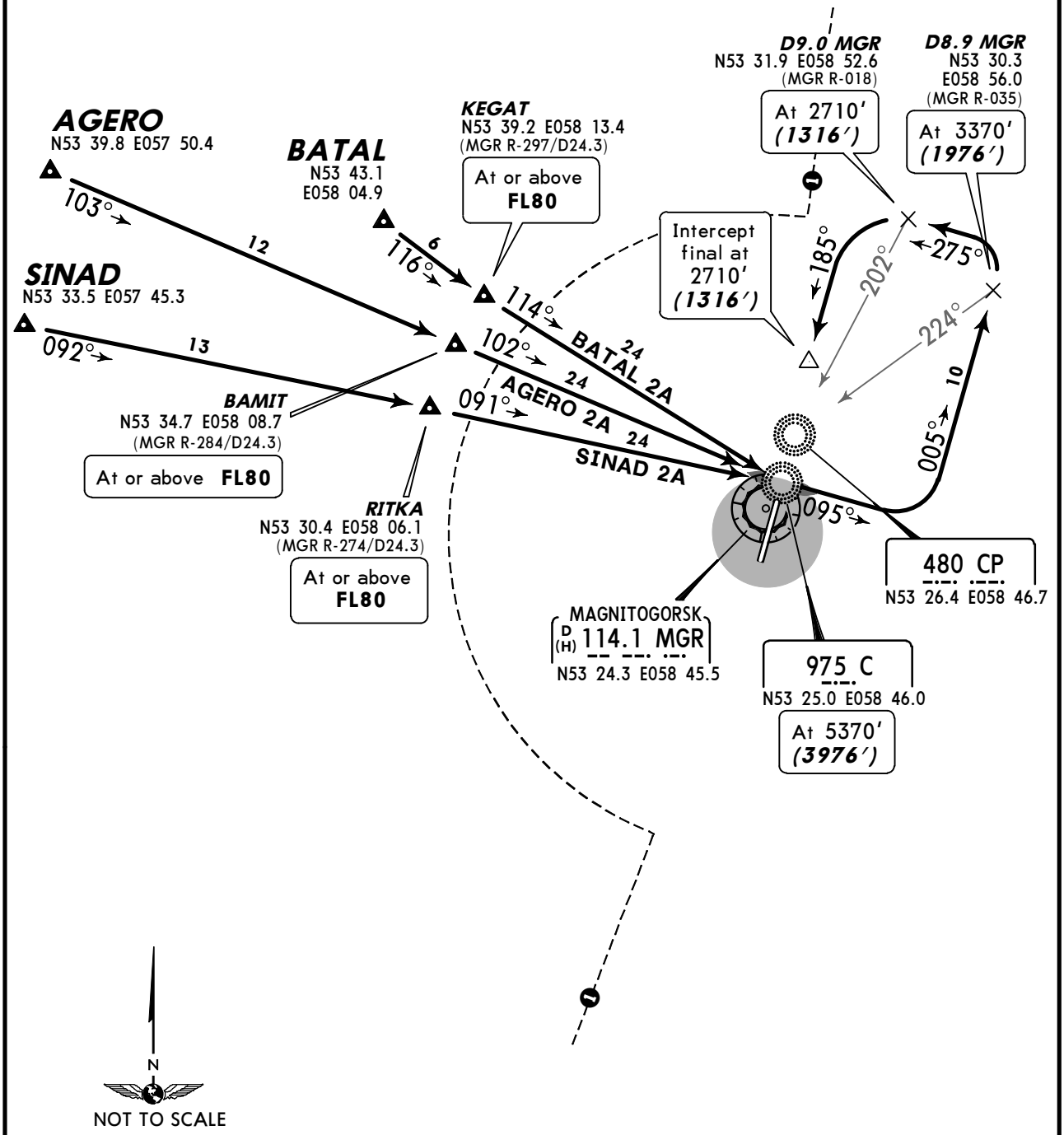
ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3976′)***

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



ALT/HEIGHT CONVERSION	
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CHANGES: Crossings; chart reindexed.

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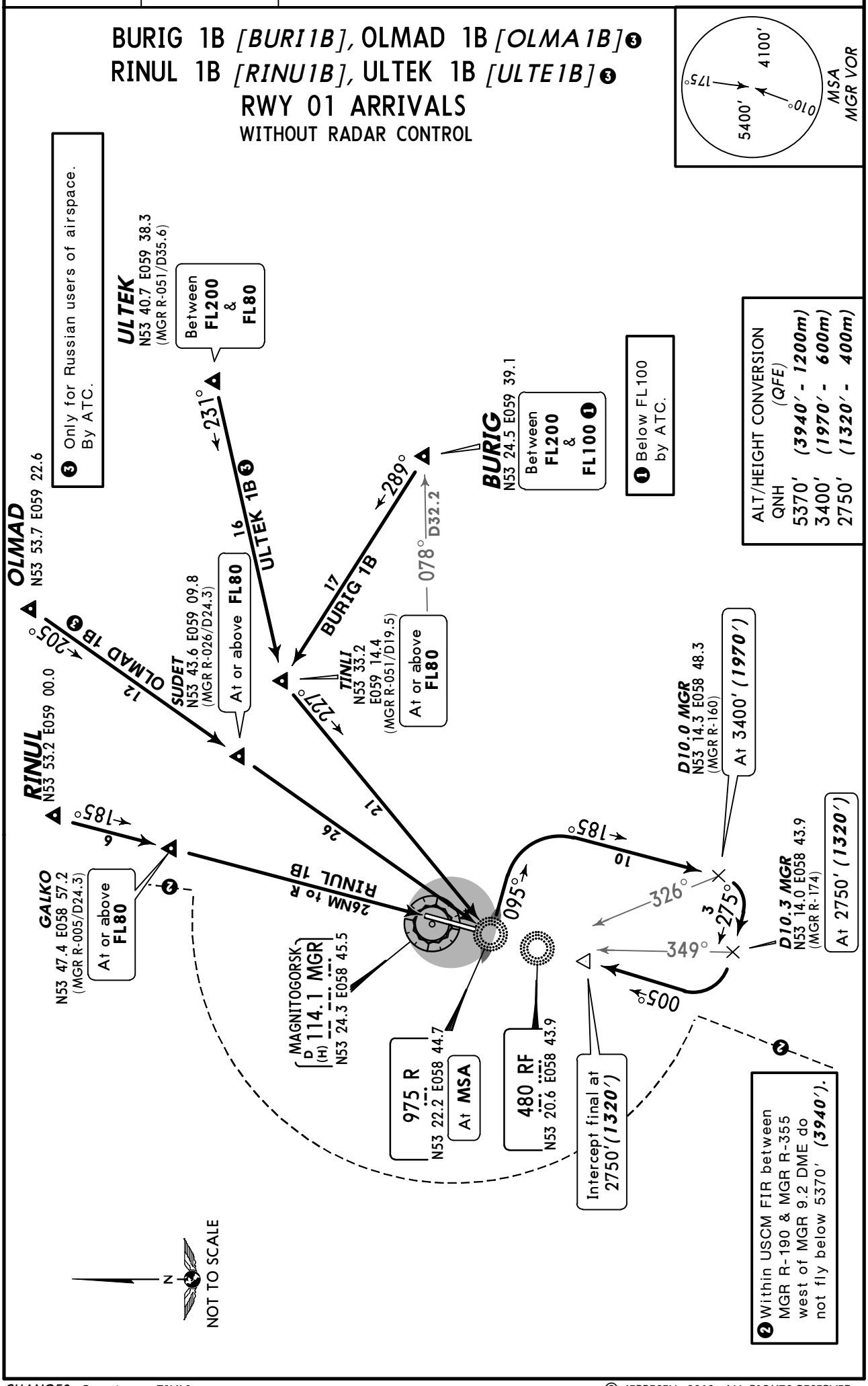
ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3940′)***

BURIG 1B *[BURI1B]*, OLMAD 1B *[OLMA1B]* ❸
RINUL 1B *[RINU1B]*, ULTEK 1B *[ULTE1B]* ❸
RWY 01 ARRIVALS
WITHOUT RADAR CONTROL



CHANGES: Crossing at TINLI.

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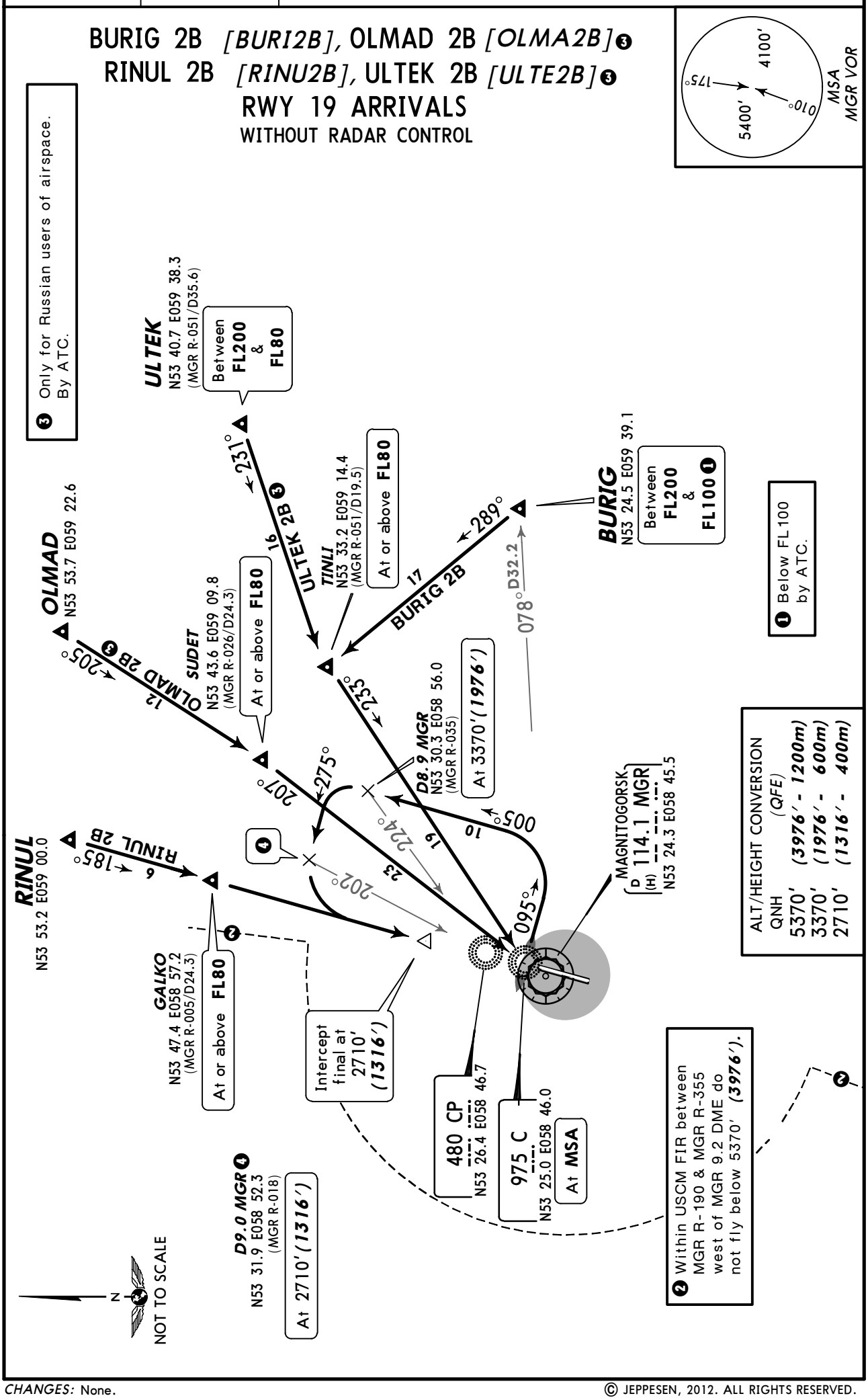
ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3976′)***

BURIG 2B *[BURI2B]*, OLMAD 2B *[OLMA2B]* ❸
RINUL 2B *[RINU2B]*, ULTEK 2B *[ULTE2B]* ❸
RWY 19 ARRIVALS
WITHOUT RADAR CONTROL



CHANGES: None.

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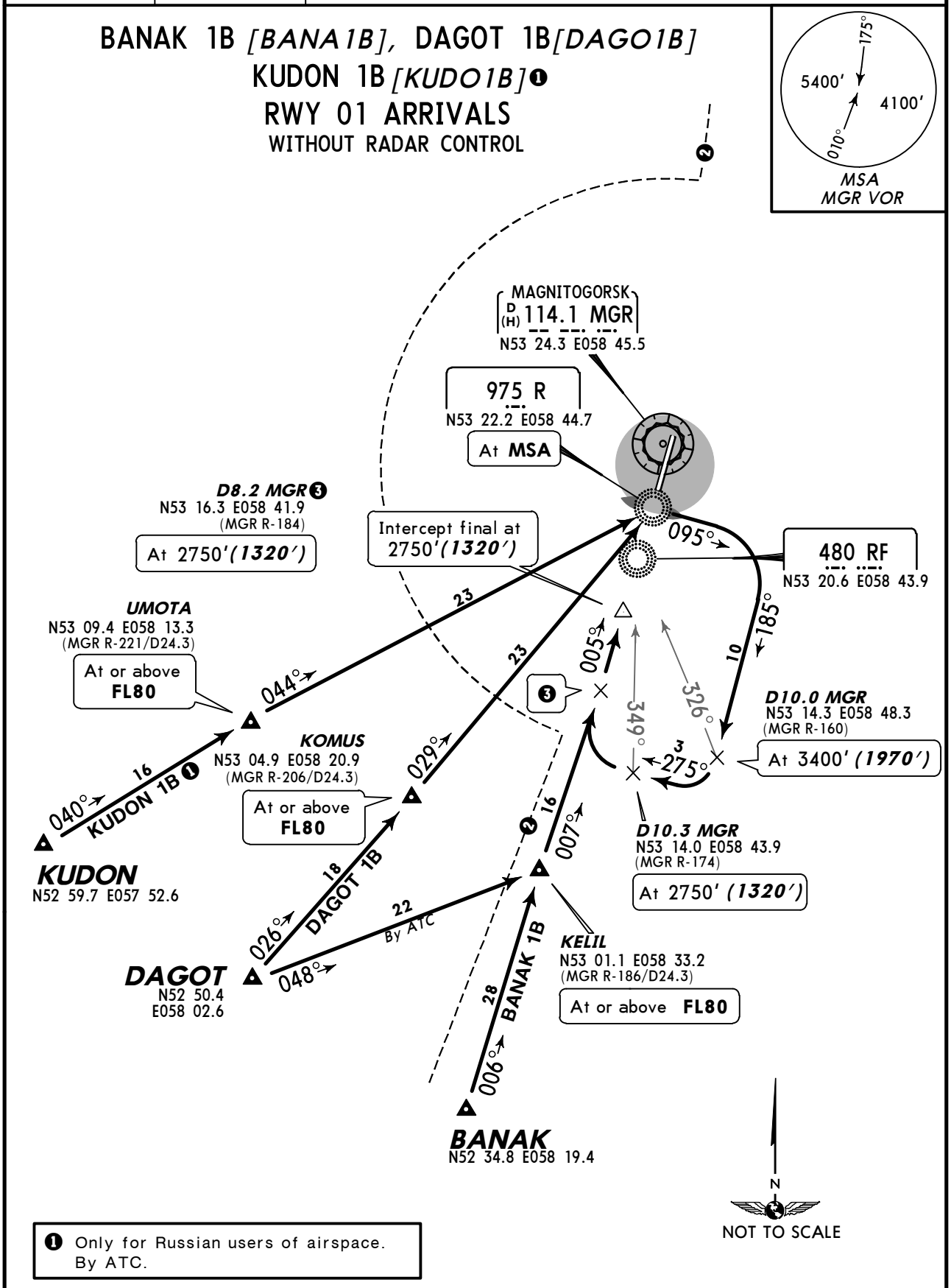
ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3940′)***

BANAK 1B *[BANA1B]*, DAGOT 1B *[DAGO1B]*
KUDON 1B *[KUDO1B]* ❶
RWY 01 ARRIVALS
WITHOUT RADAR CONTROL



❶ Only for Russian users of airspace. By ATC.

❷ Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370′ ***(3940′).***

ALT/HEIGHT CONVERSION

QNH	*(QFE)*
5370′	***(3940′ - 1200m)***
3400′	***(1970′ - 600m)***
2750′	***(1320′ - 400m)***

CHANGES: New chart (STARs transferred & established).

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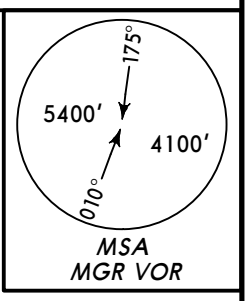
ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3976′)***

BANAK 2B *[BANA2B]*, DAGOT 2B *[DAGO2B]* KUDON 2B *[KUDO2B]* ❶
RWY 19 ARRIVALS
WITHOUT RADAR CONTROL



❶ Only for Russian users of airspace. By ATC.

D9.0 MGR
N53 31.9 E058 52.3
(MGR R-018)
At 2710′*(1316′)*

Intercept final at 2710′ *(1316′)*

185°
202°
275°
224°

D8.9 MGR
N53 30.3 E058 56.3
(MGR R-035)
At 3370′*(1976′)*

10
005°
095°

480 CP
N53 26.4 E058 46.7

975 C
N53 25.0 E058 46.0
At **MSA**

MAGNITOGORSK
D (H) 114.1 MGR
N53 24.3 E058 45.5

UMOTA
N53 09.4 E058 13.3
(MGR R-221/D24.3)
At or above **FL80**

25
KUDON 2B ❶
039°

25
25NM to C

KOMUS
N53 04.9
E058 20.9
(MGR R-206/D24.3)
At or above **FL80**

16
040°

025°

KUDON
N52 59.7 E057 52.6

18
DAGOT 2B
026°

22
048°
By ATC

007°

KELIL
N53 01.1 E058 33.2
(MGR R-186/D24.3)
At or above **FL80**

DAGOT
N52 50.4 E058 02.6

28
BANAK 2B
006°

BANAK
N52 34.8 E058 19.4

N
NOT TO SCALE

❷ Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370′ ***(3976′).***

ALT/HEIGHT CONVERSION

QNH	*(QFE)*
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CHANGES: New chart (STARs transferred & established).

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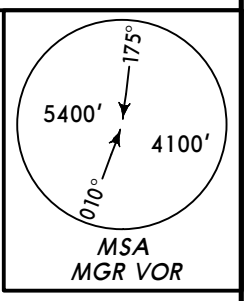
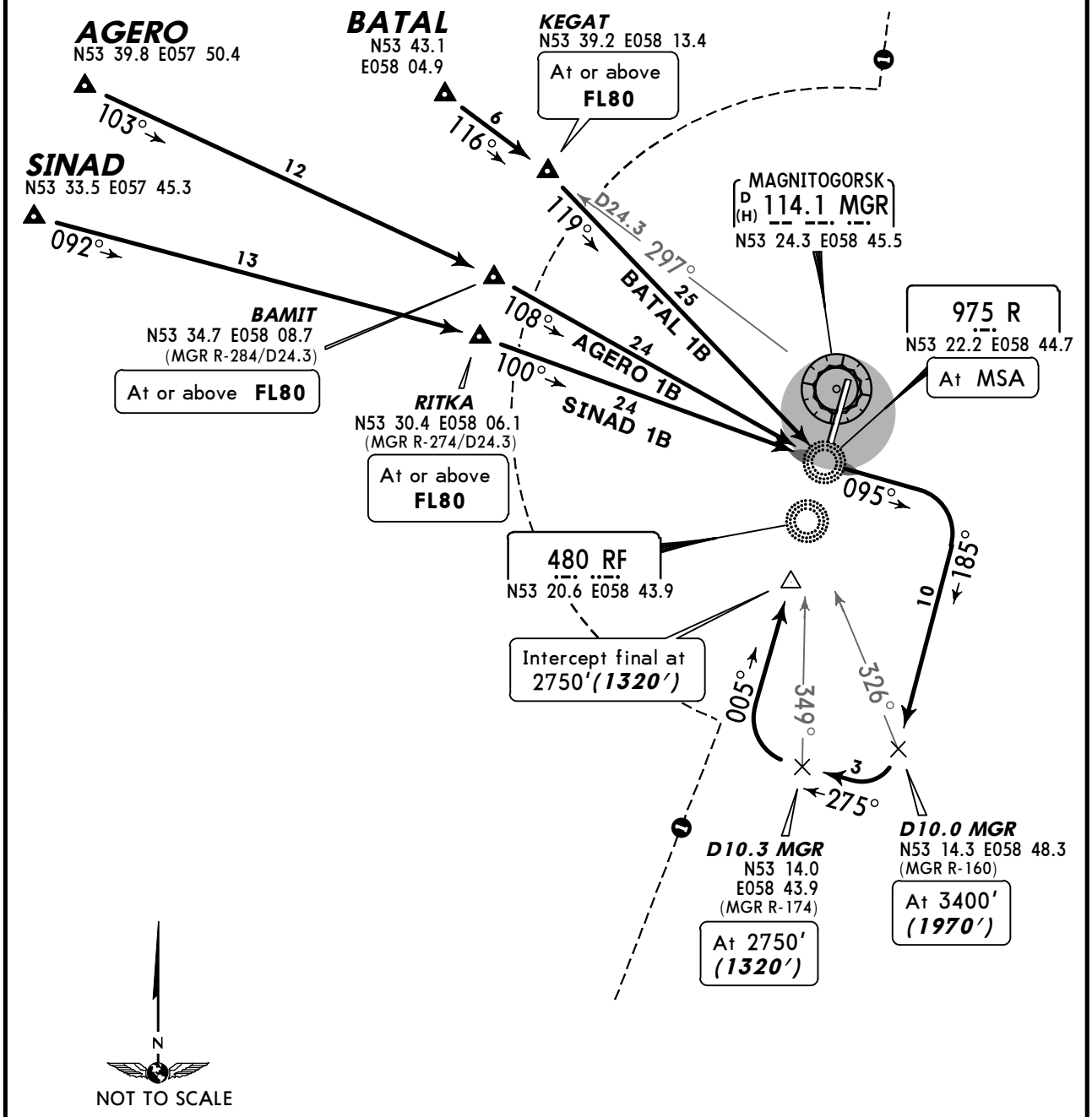
ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3940′)***

AGERO 1B *[AGER1B]*, BATAL 1B *[BATA1B]*
SINAD 1B *[SINA1B]*
RWY 01 ARRIVALS
WITHOUT RADAR CONTROL





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ALT/HEIGHT CONVERSION

QNH	(QFE)
5370′	***(3940′ - 1200m)***
3400′	***(1970′ - 600m)***
2750′	***(1320′ - 400m)***

CHANGES: New chart (STARs reindexed).

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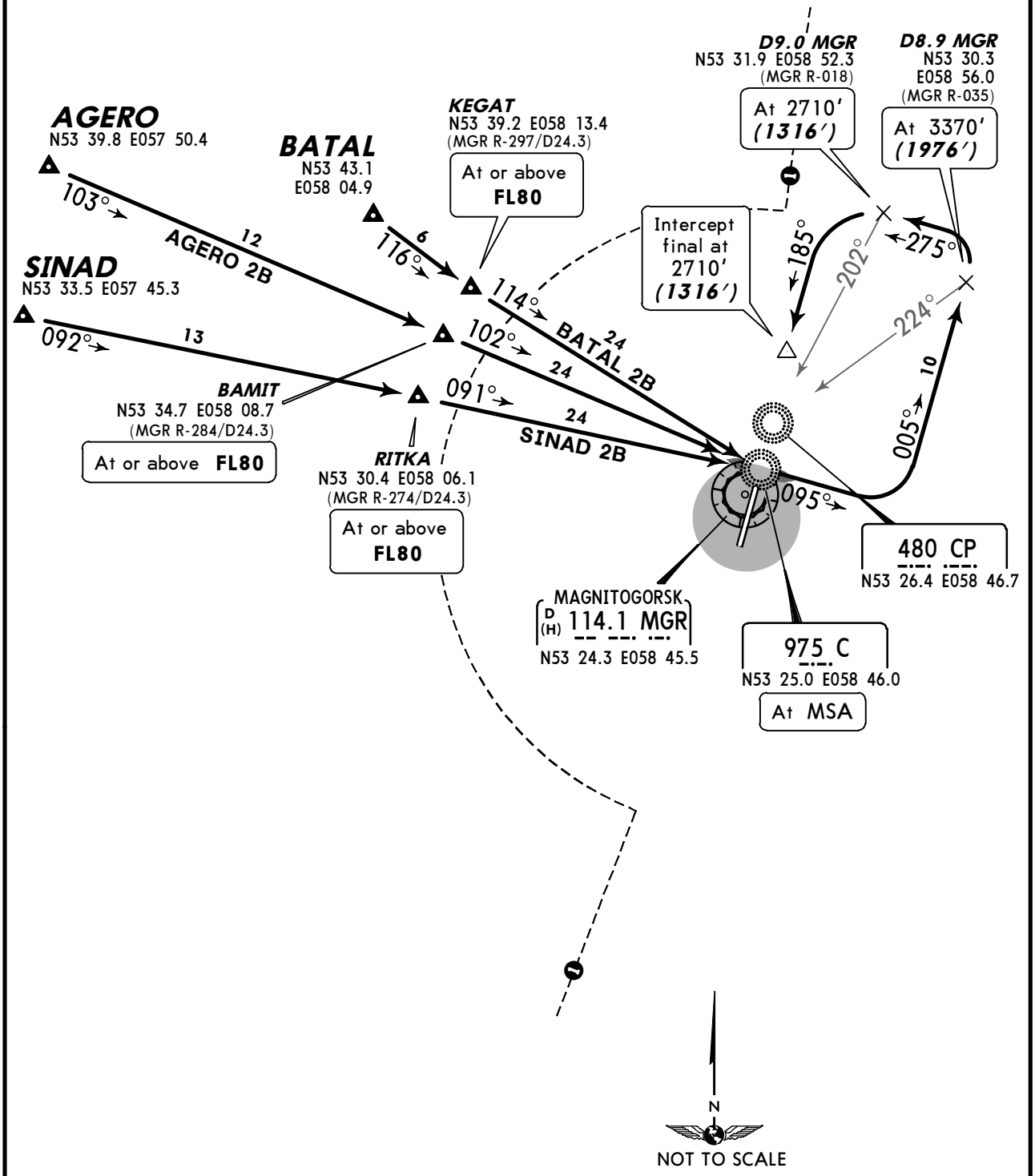
ATIS	Apt Elev	
132.8	1430′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3976′)***

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



ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
5370′	***(3976′ - 1200m)***
3370′	***(1976′ - 600m)***
2710′	***(1316′ - 400m)***

❶ Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370′ ***(3976′).***

CHANGES: New chart (STARs transferred).

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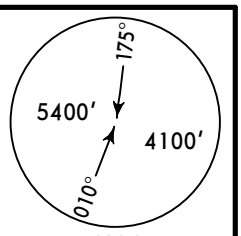
Apt Elev	
1430′	QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3940′)***



BURIG 3, OLMAD 3❷❸
RINUL 3, ULTEK 3❷❸
RWY 01 DEPARTURES

❷ By ATC.

❸ Only for Russian users of airspace.

OLMAD
N53 53.7 E059 22.6

RINUL
N53 53.2 E059 00.0

GALKO
N53 47.4 E058 57.2
(MGR R-005/D24.3)
At or above **FL80**

SUDET
N53 43.6 E059 09.8
(MGR R-026/D24.3)
At or above **FL80**

ULTEK
N53 40.7 E059 38.3
(MGR R-051/D35.6)
Between **FL80 & FL200**

TINLI
N53 33.2
E059 14.4
BURIG 3
Below **FL80** ❷

BURIG
N53 24.5 E059 39.1
Between **FL100 & FL190**

MAGNITOGORSK
D (H) 114.1 MGR
N53 24.3 E058 45.5

At 2090′ ***(660′)***

005° 24 RINUL 3
027° 22
058° 19
025° 12 OLMAD 3❷❸
051° D19.5
050° ULTEK 3❷❸
109° 17 BURIG 3
078° D32.2

❶ Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370′ ***(3940′)***.

N
NOT TO SCALE

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
2090′	***(660′ - 200m)***
5370′	***(3940′ - 1200m)***

CHANGES: SIDs established, transferred & revised.

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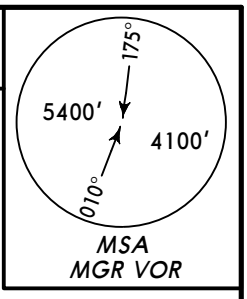
Apt Elev	QNH on request **(QFE)**
1430′	Trans level: By ATC Trans alt: 5370′ ***(3976′)***

BURIG 4, OLMAD 4❷❸
RINUL 4, ULTEK 4❷❸
RWY 19 DEPARTURES



❷ By ATC.
❸ Only for Russian users of airspace.

❶ Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370′ ***(3976′).***

RINUL
N53 53.2 E059 00.0

OLMAD
N53 53.7 E059 22.6

GALKO
N53 47.4 E058 57.2
At or above **FL80**

SUDET
N53 43.6 E059 09.8
At or above **FL80**

ULTEK
N53 40.7 E059 38.3
(MGR R-051/D35.6)
Between **FL80 & FL200**

TINLI
N53 33.2 E059 14.4
(MGR R-051/D19.5)
BURIG 4
Below **FL80** ❷

BURIG
N53 24.5 E059 39.1
Between **FL100 & FL200**

480 CP
N53 26.4 E058 46.7

MAGNITOGORSK
D (H) 114.1 MGR
N53 24.3 E058 45.5

At 2060′ ***(666′)***

6 — 12 — 36 — 29 — 17 — 17

RINUL 4 — OLMAD 4 ❷❸ — ULTEK 4 ❷❸ — BURIG 4

005° D24.3 — 026° D24.3 — 025° — 050° — 109° — 078° D32.2 — 049° — 017° — 356° — 258° — 185° — 005°

N
NOT TO SCALE

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
2060′	***(666′ - 200m)***
5370′	***(3976′ - 1200m)***

CHANGES: SIDs established, transferred & revised.

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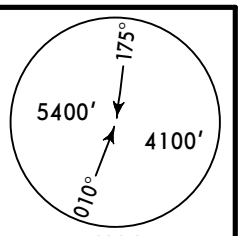
Apt Elev	
1430′	QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3940′)***



MSA
MGR VOR

BANAK 3, DAGOT 3, KUDON 3❷
RWY 01 DEPARTURES

❷ Only for Russian users of airspace. By ATC.

❶ Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370′ ***(3940′).***

At 2090′
(659′)

MAGNITOGORSK
D (H) 114.1 MGR
N53 24.3 E058 45.5

005°

480 RF
N53 20.6 E058 43.9

13 215° 193°

UMOTA
N53 09.4 E058 13.3
At or above
FL80

D24.3 221° 228° 22 KUDON 3❸

210° 21 DAGOT 3

206° D24.3

34 BANAK 3

16

KUDON
N52 59.7 E057 52.6

18

KOMUS
N53 04.9 E058 20.9
At or above
FL80

D24.3 186°

KELIL
N53 01.1 E058 33.2
At or above
FL80

DAGOT
N52 50.4 E058 02.6

28

BANAK
N52 34.8 E058 19.4

N
NOT TO SCALE

ALT/HEIGHT CONVERSION

QNH	*(QFE)*
2090′	***(660′ - 200m)***
5370′	***(3940′ - 1200m)***

CHANGES: SIDs established, transferred & revised.

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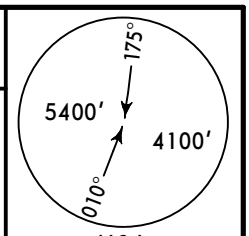
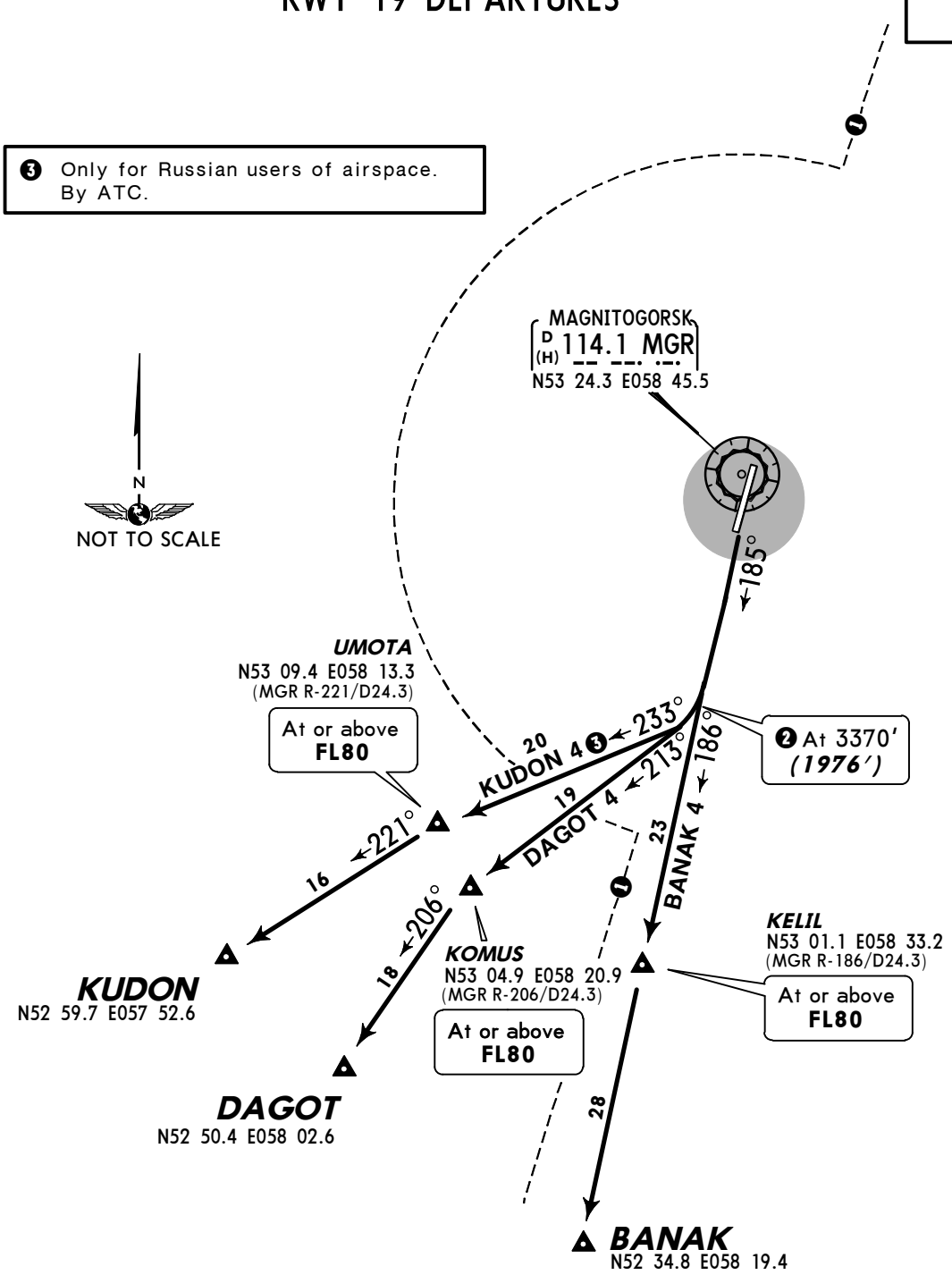
Apt Elev	QNH on request **(QFE)**
1430′	Trans level: By ATC Trans alt: 5370′ ***(3976′)***

BANAK 4, DAGOT 4
KUDON 4❸
RWY 19 DEPARTURES



❸ Only for Russian users of airspace. By ATC.



❶ Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370′ ***(3976′).***

❷ WARNING

Flying to KOMUS and UMOTA requires a minimum climb gradient of 7.5% from the commencement of the initial turn up to 5370′ (3976′).

Gnd speed-KT	75	100	150	200	250	300
7.5% V/V(fpm)	570	760	1139	1519	1899	2279

If unable to comply, climb straight ahead to 5370′ (3976′).

ALT/HEIGHT CONVERSION

QNH	*(QFE)*
3370′	***(1976′ - 600m)***
5370′	***(3976′ - 1200m)***

CHANGES: SIDs established, transferred & revised.

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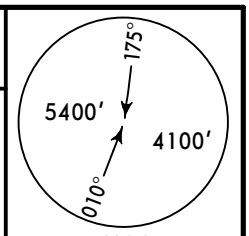
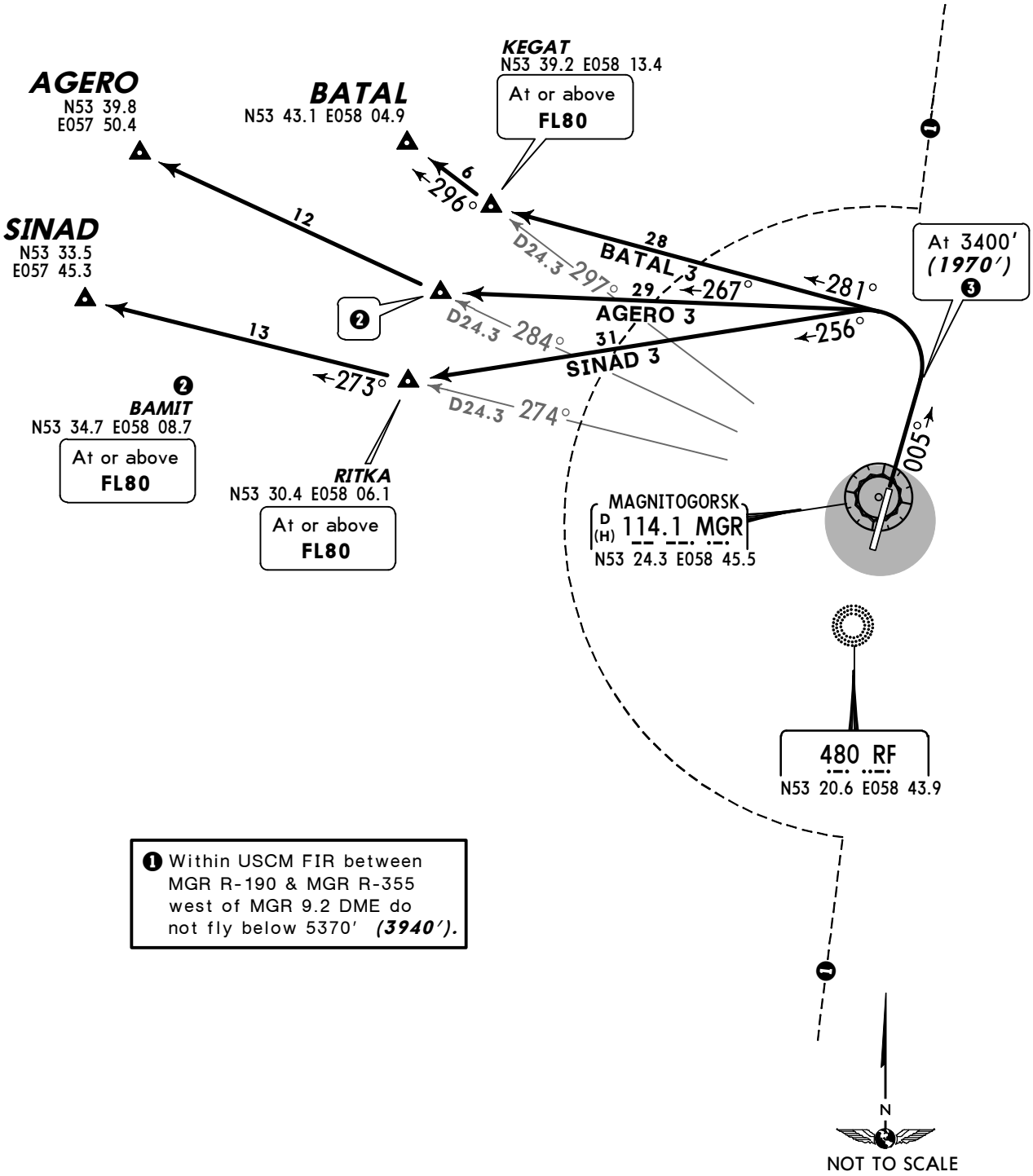
Apt Elev	QNH on request **(QFE)**
1430′	Trans level: By ATC Trans alt: 5370′ ***(3940′)***

AGERO 3, BATAL 3, SINAD 3
RWY 01 DEPARTURES





❶ Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370′ ***(3940′).***

❸ WARNING

These SIDs require a minimum climb gradient of 6.0% from the commencement of the initial turn up to 5370′ (3940′).

Gnd speed-KT	75	100	150	200	250	300
6.0% V/V(fpm)	456	608	911	1215	1519	1823

If unable to comply, turn RIGHT via RF.

ALT/HEIGHT CONVERSION

QNH	*(QFE)*
3400′	***(1970′ - 600m)***
5370′	***(3940′ - 1200m)***

CHANGES: New chart (SIDs transferred).

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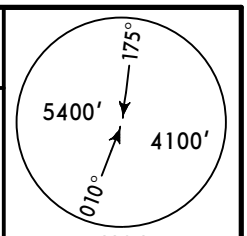
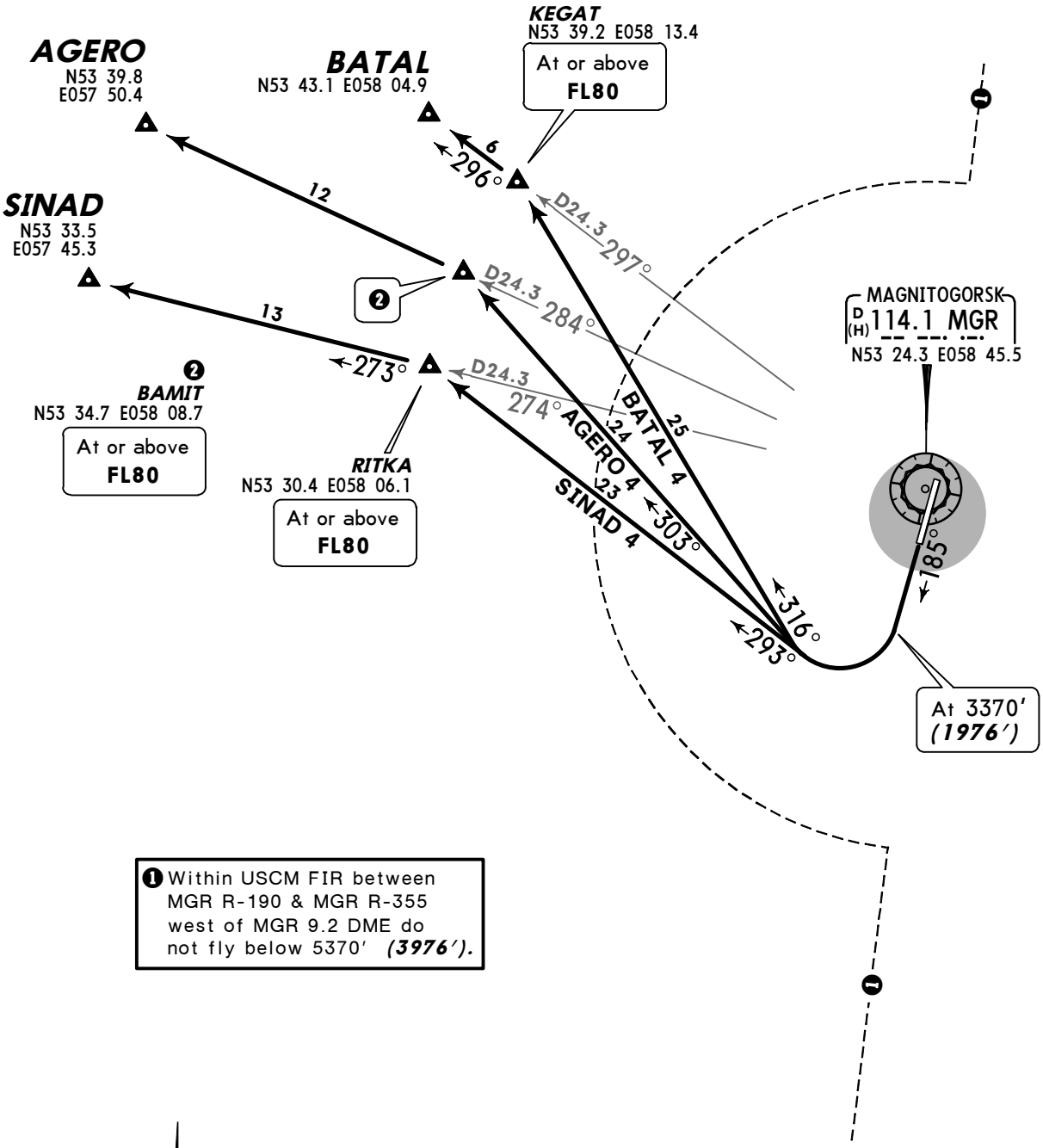
Apt Elev	
1430′	QNH on request **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3976′)***

AGERO 4, BATAL 4, SINAD 4
RWY 19 DEPARTURES



MSA
MGR VOR



❶ Within USCM FIR between MGR R-190 & MGR R-355 west of MGR 9.2 DME do not fly below 5370′ ***(3976′).***

N

NOT TO SCALE

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
3370′	***(1976′ - 600m)***
5370′	***(3976′ 1200m)***

CHANGES: New chart (SIDs transferred).

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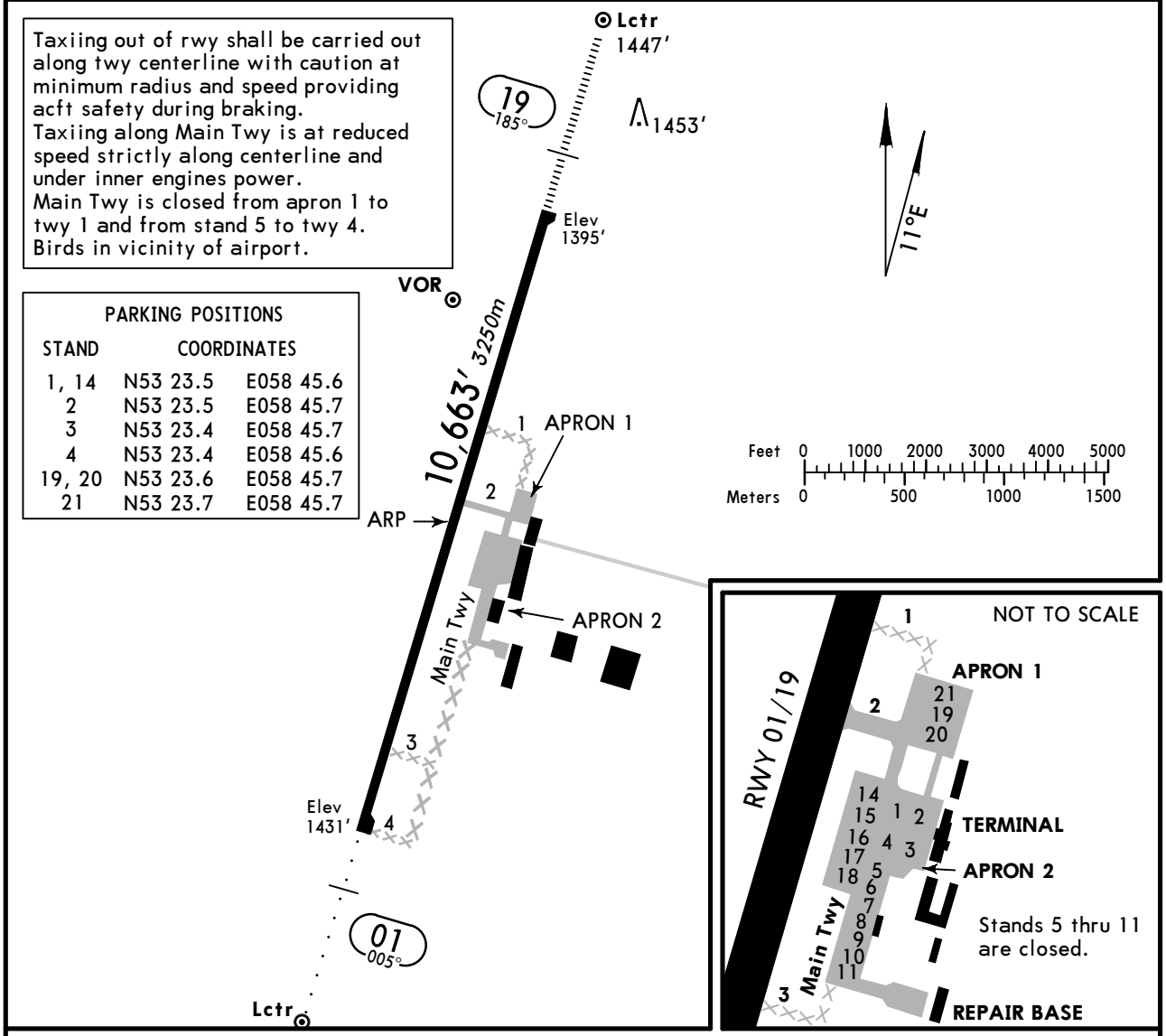
ATIS	MAGNITOGORSK Tower
132.8	120.8

Taxiing out of rwy shall be carried out along twy centerline with caution at minimum radius and speed providing acft safety during braking.
Taxiing along Main Twy is at reduced speed strictly along centerline and under inner engines power.
Main Twy is closed from apron 1 to twy 1 and from stand 5 to twy 4.
Birds in vicinity of airport.

PARKING POSITIONS

STAND	COORDINATES	
1, 14	N53 23.5	E058 45.6
2	N53 23.5	E058 45.7
3	N53 23.4	E058 45.7
4	N53 23.4	E058 45.6
19, 20	N53 23.6	E058 45.7
21	N53 23.7	E058 45.7



ADDITIONAL RUNWAY INFORMATION

RWY					USABLE LENGTHS — LANDING BEYOND — Threshold	Glide Slope	TAKE-OFF	WIDTH
01	HIRL *(60m)*	ALS		RVR		9509′ *2898m*	10,335′ ❶ *3150m*	148′ *45m*
19	HIRL *(60m)*	HIALS	PAPI-L (angle 2.67°)	RVR				

❶ First 328′/100m unusable for take-off.

TAKE-OFF

	AIR CARRIER (JAA) All Rwys — LVP must be in force: RCLM (DAY only) or RL	AIR CARRIER (JAA) All Rwys: RCLM (DAY only) or RL
A	*250m*	*400m*
B		
C		
D	*300m*	

CHANGES: ATIS frequency.

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STRAIGHT-IN RWY		A	B	C	D
01	ILS	**1631′**(200′)	**1631′**(200′)	**1631′**(200′)	**1631′**(200′)
		R1000m	**R1000m**	**R1000m**	**R1000m**
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ❶	**1720′**(289′)	**1720′**(289′)	**1720′**(289′)	**1720′**(289′)
		R1200m	**R1200m**	**R1200m**	**R1200m**
	ALS out	R1400m	R1400m	R1400m	R1400m
	NDB ❶❷	**1740′**(309′)	**1740′**(309′)	**1740′**(309′)	**1740′**(309′)
		R1200m	**R1200m**	**R1200m**	**R1200m**
	ALS out	R1400m	R1400m	R1400m	R1400m
	NDB ❸	**2400′**(969′)	**2400′**(969′)	**2400′**(969′)	**2400′**(969′)
		C4500m	**C4500m**	**C4700m**	**C4700m**
	ALS out	C4700m	C4700m	C4900m	C4900m
19	ILS	**1595′**(200′)	**1595′**(200′)	**1595′**(200′)	**1595′**(200′)
	FULL	**R550m**	**R550m**	**R550m**	**R550m**
	Limited	R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ❶	**1720′**(325′)	**1720′**(325′)	**1720′**(325′)	**1720′**(325′)
		R800m	**R800m**	**R800m**	**R800m**
	ALS out	R1500m	R1500m	R1500m	R1500m
	NDB ❶❹	**1720′**(325′)	**1720′**(325′)	**1720′**(325′)	**1720′**(325′)
		R800m	**R800m**	**R800m**	**R800m**
	ALS out	R1500m	R1500m	R1500m	R1500m
	NDB ❺	**2200′**(805′)	**2200′**(805′)	**2200′**(805′)	**2200′**(805′)
		C3300m	**C3300m**	**C3500m**	**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, C	250m	400m	500m
D	300m		

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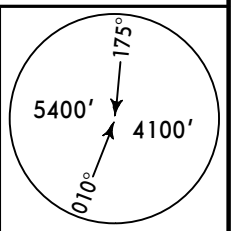
BRIEFING STRIP ™

ATIS	MAGNITOGORSK Tower
132.8	120.8

LOC IRF	Final Apch Crs	GS LOM	ILS DA(H)	Apt Elev 1431′
*108.7	005°	2104′ (673′)	1631′ (200′)	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.

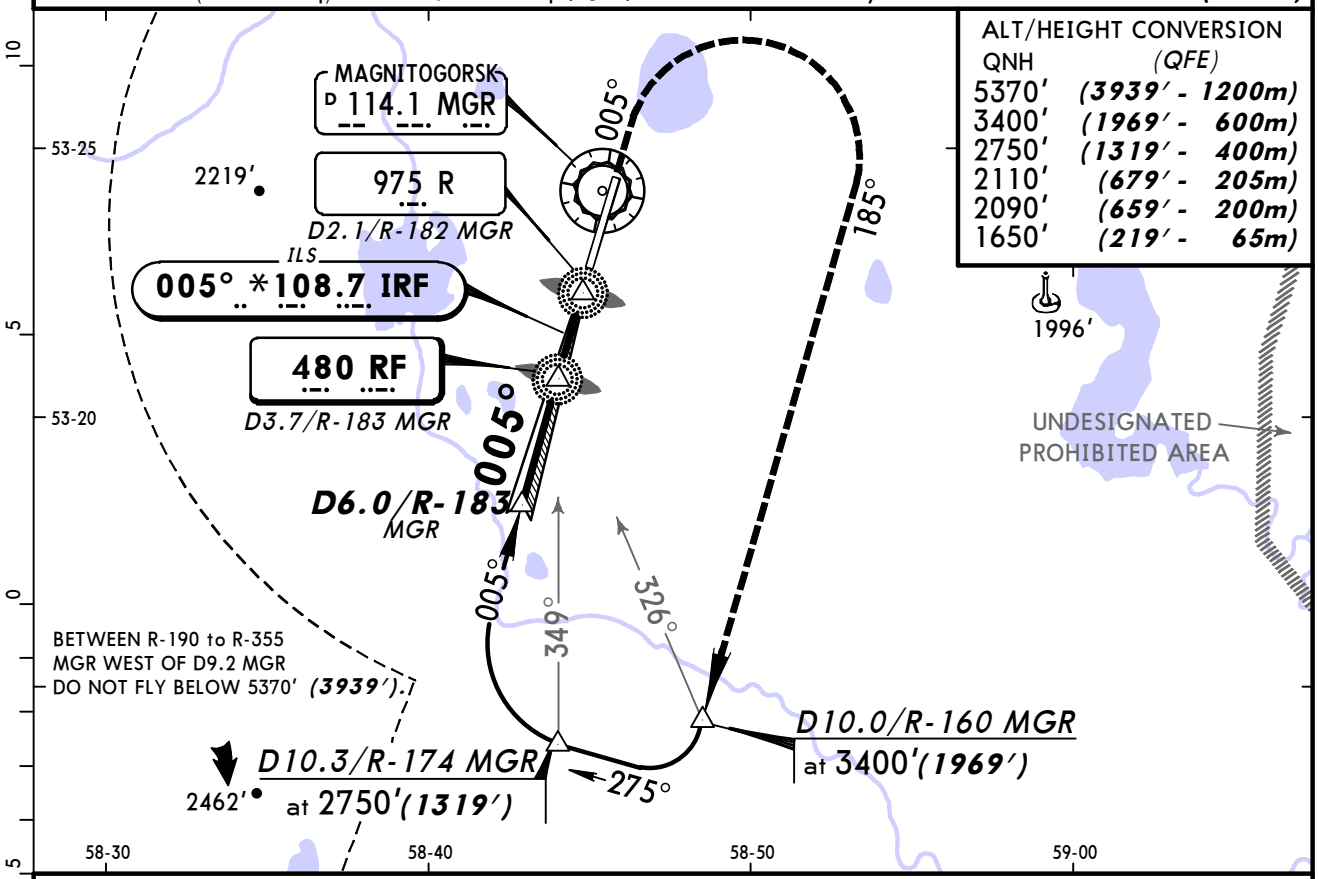


MSA
MGR VOR

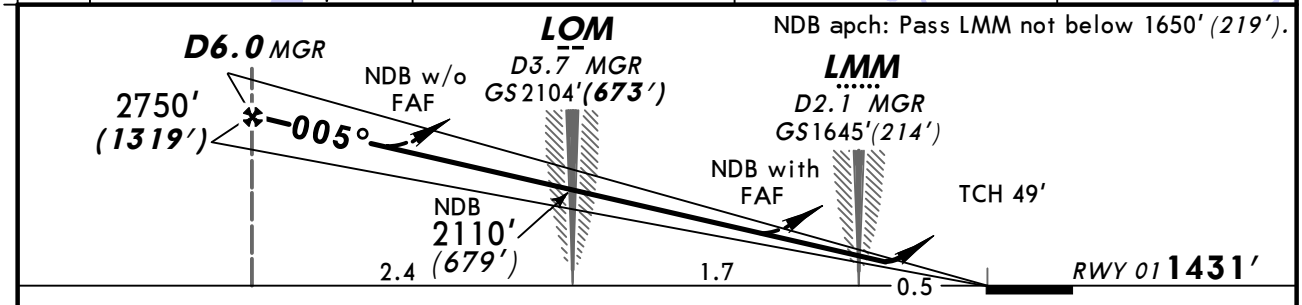
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 5370′ (3939′)

ALT/HEIGHT CONVERSION

QNH	(QFE)
5370′	(3939′ - 1200m)
3400′	(1969′ - 600m)
2750′	(1319′ - 400m)
2110′	(679′ - 205m)
2090′	(659′ - 200m)
1650′	(219′ - 65m)



NDB apch: Pass LMM not below 1650′ (219′).



Gnd speed-Kts	70	90	100	120	140	160
ILS GS or NDB Desc angle 2.67°	336	432	480	576	671	767

ALS | 2090′ (659′) on 005° | 185° RT | 3400′ (1969′)

STRAIGHT-IN LANDING RWY 01

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

PANS OPS

CHANGES: Minimums.

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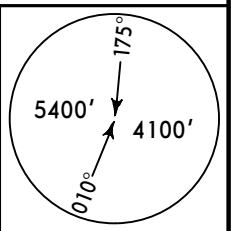
MAGNITOGORSK, RUSSIA
ILS or 2 NDB Rwy 19

BRIEFING STRIP ™

ATIS	MAGNITOGORSK Tower
132.8	120.8

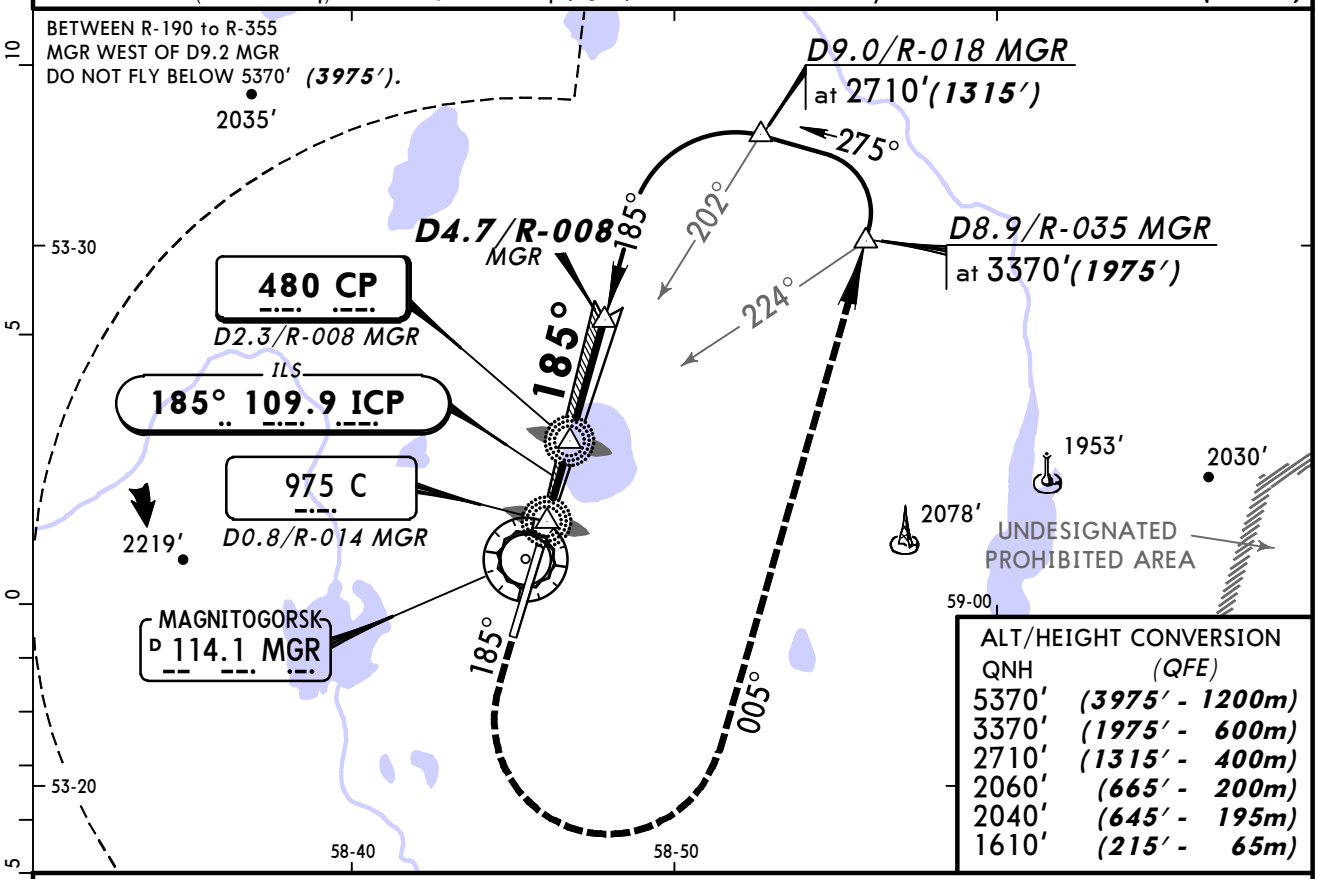
LOC ICP	Final Apch Crs	GS LOM	ILS DA(H)	Apt Elev 1431′
109.9	**185°**	2035′ *(640′)*	1595′ *(200′)*	RWY **1395′**
NDB CP		Minimum Alt D4.7 MGR	NDB MDA(H) (CONDITIONAL)	
480		2710′ *(1315′)*	1720′ *(325′)*	

MISSED APCH: Climb on 185° to 2060′ *(665′)*, then turn LEFT onto 005° climbing to 3370′ *(1975′)*, then according to chart.



MSA
MGR VOR

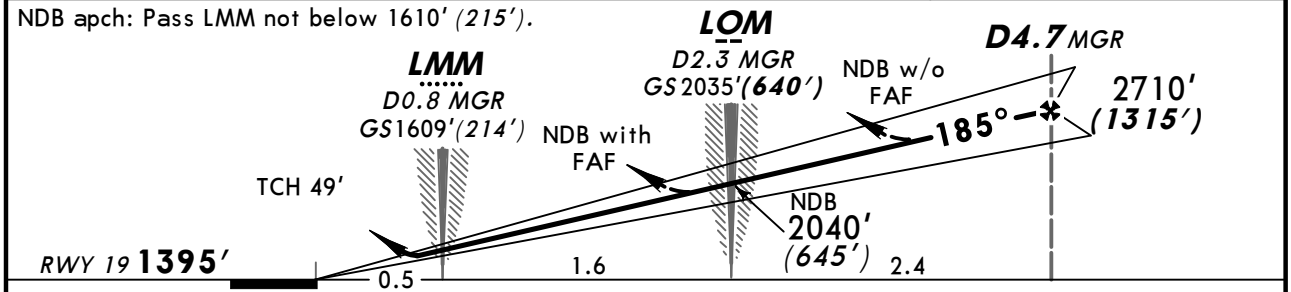
Alt Set: MM (hPa on req) QNH on req **(QFE)** Trans level: By ATC Trans alt: 5370′ ***(3975′)***



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
ILS GS or NDB Desc angle 2.67°	336	432	480	576	671	767

HIALS PAPI 2060′ *(665′)* on 185° 005° LT 3370′ *(1975′)*

PANS OPS

STRAIGHT-IN LANDING RWY 19

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

CHANGES: Minimums.

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MAGNITOGORSK, RUSSIA
VOR DME Rwy 01

BRIEFING STRIP ™

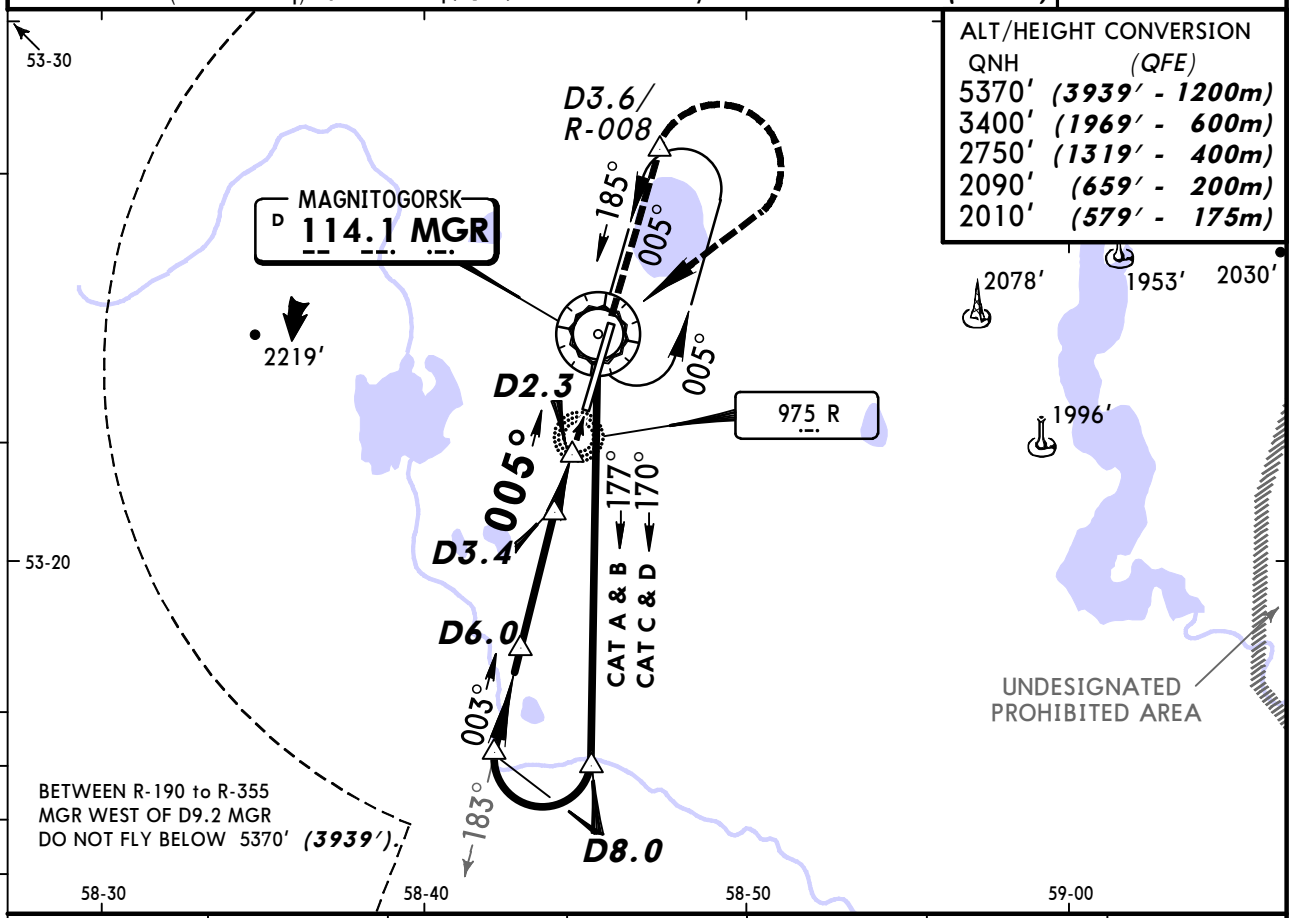
ATIS	MAGNITOGORSK Tower
132.8	120.8

VOR MGR	Final Apch Crs	Minimum Alt D6.0	MDA(H)	Apt Elev 1431'
114.1	005°	2750'(1319')	1720'(289')	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')

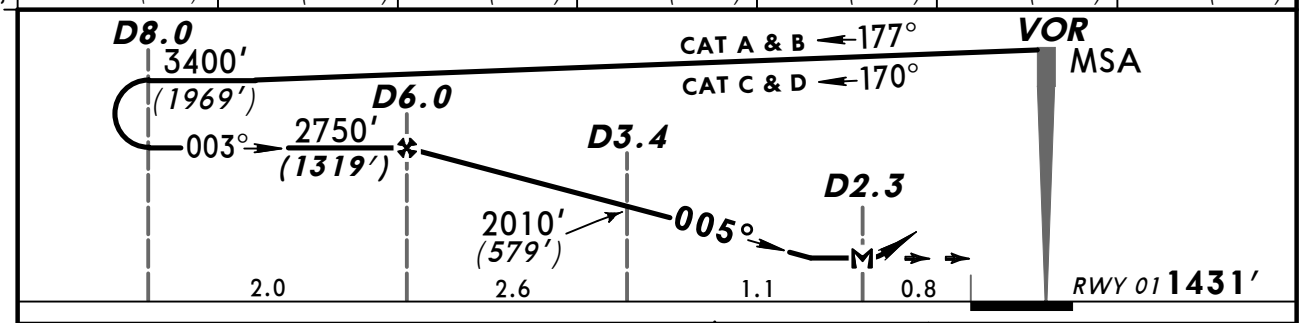
MSA MGR VOR: 175°, 5400', 4100', 010°



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
Descent angle	2.67°	331	425	472	567	661	756
MAP at D2.3							

ALS

MIM 2090' (659') on 005°

STRAIGHT-IN LANDING RWY **01**

MDA(H) 1720'(289')

ALS out

PANS OPS

A	
B	
C	RVR 1500m VIS 1600m
D	

CHANGES: MDA(H).

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BRIEFING STRIP ™

ATIS	MAGNITOGORSK Tower
132.8	120.8

VOR MGR	Final Apch Crs	Minimum Alt D4.7	MDA(H)	Apt Elev 1431' RWY 1395'
114.1	185°	2710' (1315')	1720' (325')	

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.

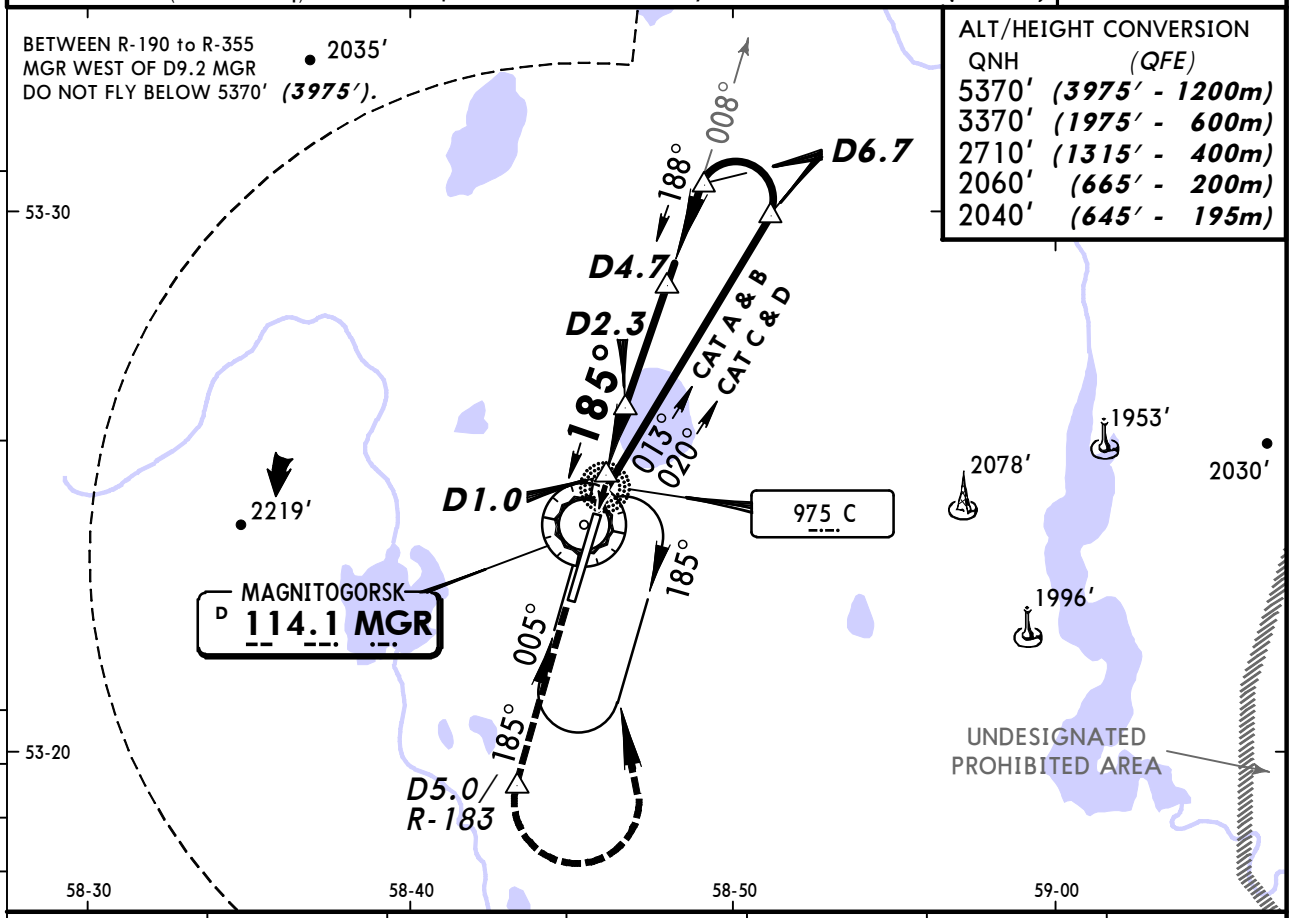
Alt Set: MM (hPa on req) QNH on req (**QFE**) Trans level: By ATC Trans alt: 5370' (3975')

MSA MGR VOR: 175°, 5400', 4100', 010°

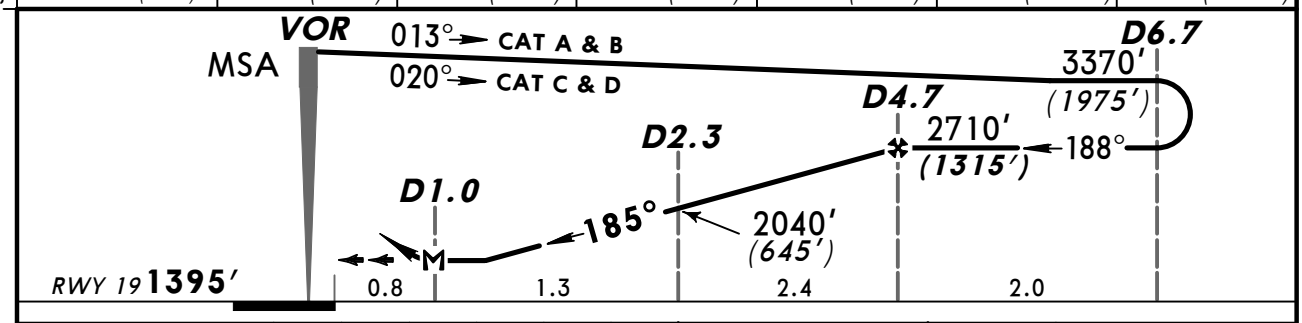
BETWEEN R-190 to R-355
MGR WEST OF D9.2 MGR
DO NOT FLY BELOW 5370' (3975').

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
Descent angle	2.67°	331	425	472	567	661	756
MAP at D1.0							

HIALS
PAPI

MIM 2060' (665') on 185°

STRAIGHT-IN LANDING RWY 19

MDA(H) 1720' (325')

PANS OPS

		ALS out
A	1200m	RVR 1500m VIS 1600m
B		
C		
D	RVR 1500m VIS 1600m	

CHANGES: MDA(H).

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Chart changes since cycle 26-2013

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

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE

MAGNITOGORSK, (MAGNITOGORSK - USCM)

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TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport USCM