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

No revision activity since Disc 26-2010

TERMINAL CHART NOTAMs

No Chart NOTAMs for Airport UOOO

General Info
Norilsk, RUS
N 69° 18.6' E 87° 20.0' Mag Var: 20.0°E
Elevation: 594'

Public, IFR, Control Tower, No Customs, Landing Fee
Fuel: Jet A-1
Repairs: Minor Airframe, Minor Engine

Time Zone Info: GMT+7:00 uses DST

Runway Info
Runway 01-19 11253' x 148' asphalt

Runway 01 (13.0°M) TDZE 538'
  Lights: Edge, ALS
Runway 19 (193.0°M) TDZE 571'
  Lights: Edge, ALS, TDZ

Communications Info
Norilsk Landing Tower **118.3**
Norilsk Taxiing Ground Control **121.7**
Norilsk Control Approach Control **132.5**
Norilsk Krug Radar **120.4**

Notebook Info

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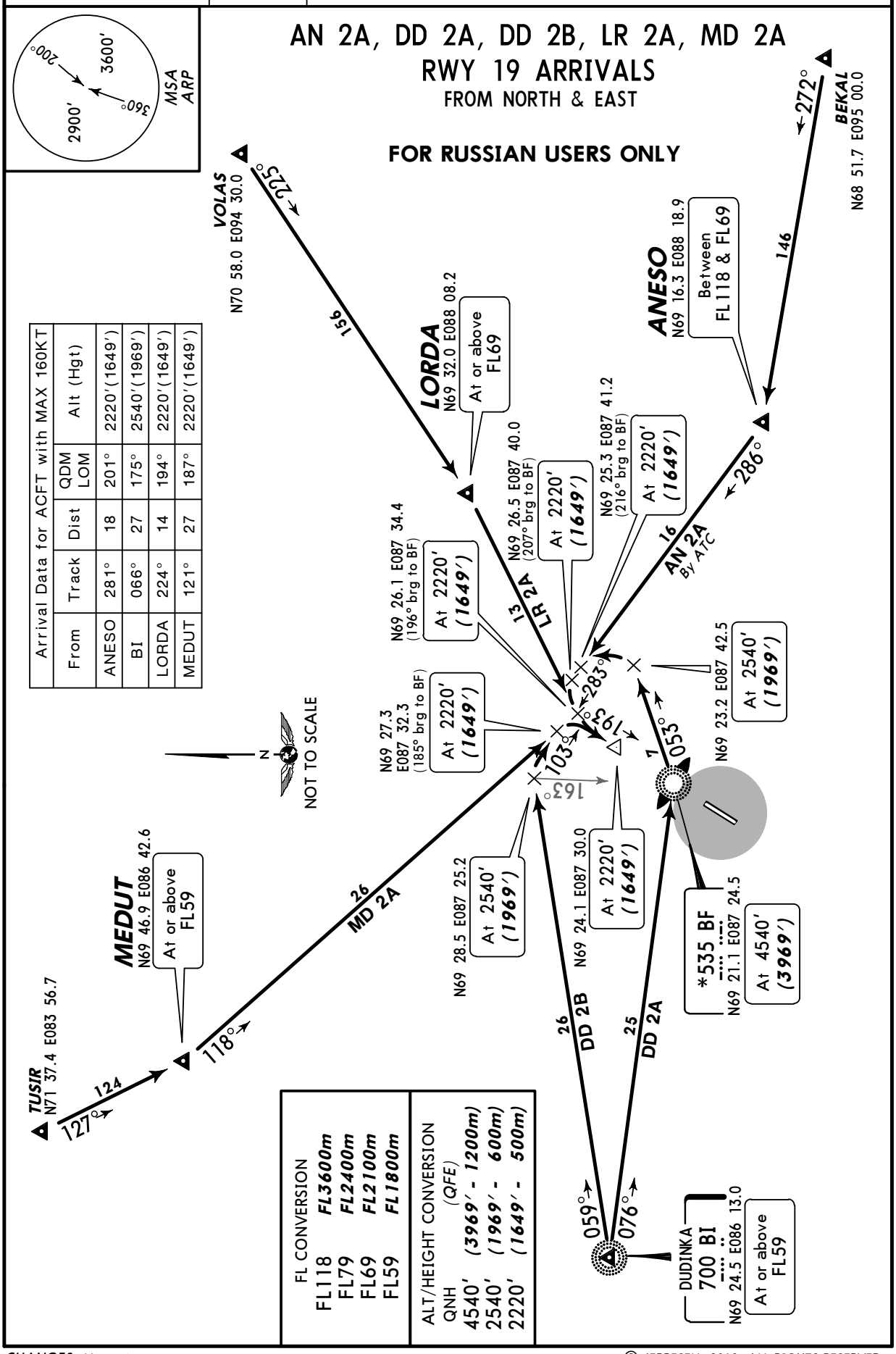
UOOO/NSK
ALYKEL

NORILSK, RUSSIA
STAR

*NORILSK Control (ASR)	Apt Elev	
132.5 124.0X	594′	Alt set: MM (hPa on request) QNH on request **(QFE)** Trans level: FL59 FL69 if pressure is less than 744 mm (991.9 hPa) and 717 mm (959.9 hPa) or above FL79 if pressure is less than 717 mm (955.9 hPa) Trans alt: 4540′ ***(3969′)***



Arrival Data for ACFT with MAX 160KT					
From	Track	Dist	QDM LOM	Alt (Hgt)
ANESO	281°	18	201°	2220′(1649′)
BI	066°	27	175°	2540′(1969′)
LORDA	224°	14	194°	2220′(1649′)
MEDUT	121°	27	187°	2220′(1649′)

FL CONVERSION	
FL118	***FL3600m***
FL79	***FL2400m***
FL69	***FL2100m***
FL59	***FL1800m***

ALT/HEIGHT CONVERSION (QFE)	
QNH	
4540′	***(3969′ - 1200m)***
2540′	***(1969′ - 600m)***
2220′	***(1649′ - 500m)***

CHANGES: New airport.

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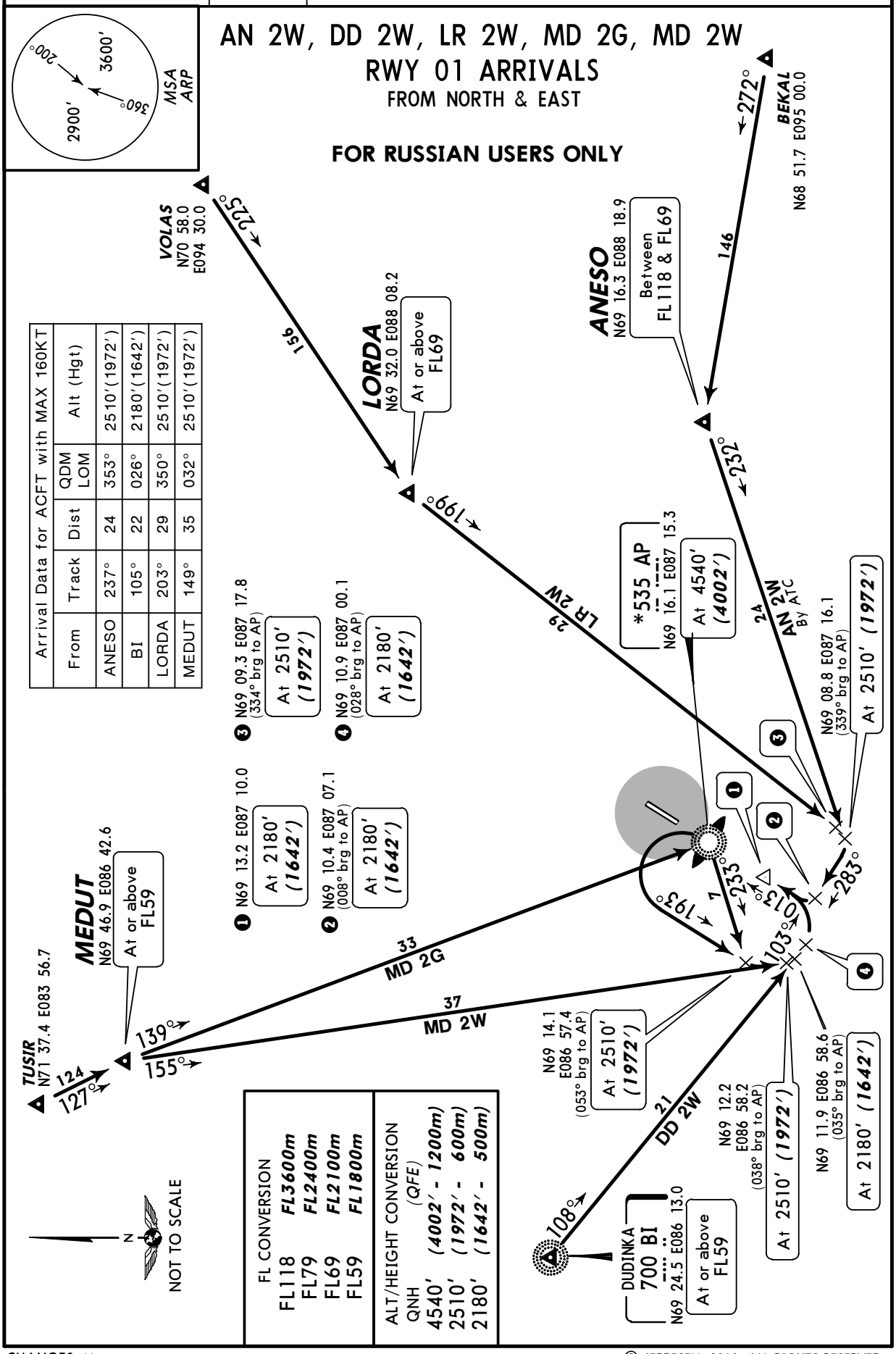
UOOO/NSK
ALYKEL

JEPPESEN
27 AUG 10 (10-2A)

NORILSK, RUSSIA
STAR

*NORILSK Control (ASR)	Apt Elev	
132.5 124.0X	594′	Alt set: MM (hPa on request) QNH on request **(QFE)** Trans level: FL59 FL69 if pressure is less than 744 mm (991.9 hPa) and 717 mm (959.9 hPa) or above FL79 if pressure is less than 717 mm (955.9 hPa) Trans alt: 4540′ ***(4002′)***



Arrival Data for ACFT with MAX 160KT				
From	Track	Dist	QDM LOM	Alt (Hgt)
ANESO	237°	24	353°	2510′(1972′)
BI	105°	22	026°	2180′(1642′)
LORDA	203°	29	350°	2510′(1972′)
MEDUT	149°	35	032°	2510′(1972′)

CHANGES: New airport.

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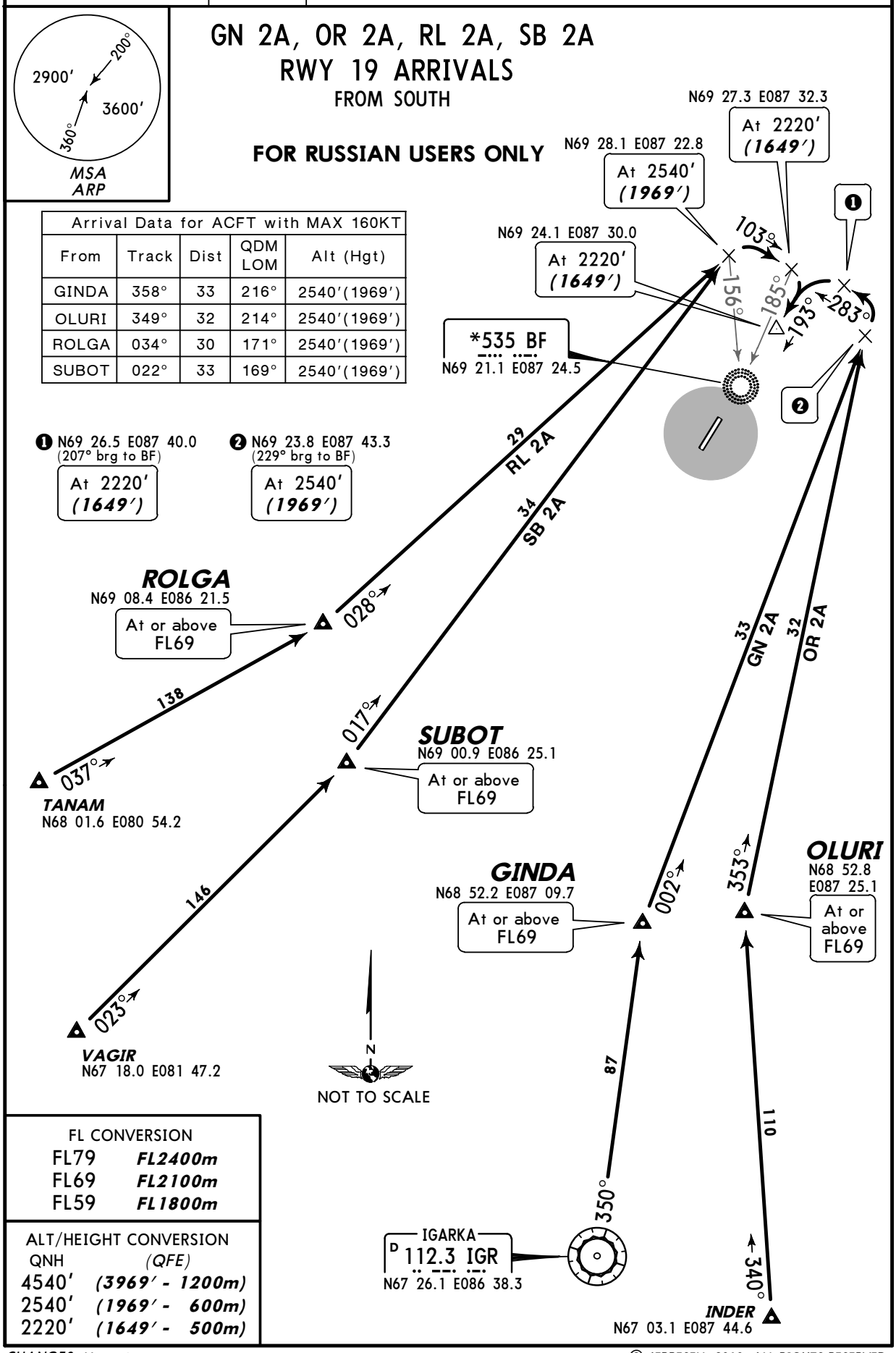
U000/NSK
ALYKEL

JEPPESEN
27 AUG 10 (10-2B)

NORILSK, RUSSIA
STAR

*NORILSK Control (ASR)	Apt Elev	
132.5 124.0X	594′	Alt set: MM (hPa on request) QNH on request **(QFE)** Trans level: FL59 FL69 if pressure is less than 744 mm (991.9 hPa) and 717 mm (959.9 hPa) or above FL79 if pressure is less than 717 mm (955.9 hPa) Trans alt: 4540′ ***(3969′)***



Arrival Data for ACFT with MAX 160KT				
From	Track	Dist	QDM LOM	Alt (Hgt)
GINDA	358°	33	216°	2540′(1969′)
OLURI	349°	32	214°	2540′(1969′)
ROLGA	034°	30	171°	2540′(1969′)
SUBOT	022°	33	169°	2540′(1969′)

FL CONVERSION

FL79	***FL2400m***
FL69	***FL2100m***
FL59	***FL1800m***

ALT/HEIGHT CONVERSION

QNH	*(QFE)*
4540′	***(3969′ - 1200m)***
2540′	***(1969′ - 600m)***
2220′	***(1649′ - 500m)***

CHANGES: New airport.

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U000/NSK
ALYKEL

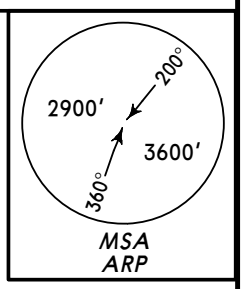
JEPPESEN
27 AUG 10 (10-2C)

NORILSK, RUSSIA
STAR

*NORILSK Control (ASR)	Apt Elev	
132.5 124.0X	594′	Alt set: MM (hPa on request) QNH on request **(QFE)** Trans level: FL59 FL69 if pressure is less than 744 mm (991.9 hPa) and 717 mm (959.9 hPa) or above FL79 if pressure is less than 717 mm (955.9 hPa) Trans alt: 4540′ ***(4002′)***

GN 2W, OR 2W, RL 2W, SB 2W
RWY 01 ARRIVALS
FROM SOUTH

FOR RUSSIAN USERS ONLY



Arrival Data for ACFT with MAX 160KT				
From	Track	Dist	QDM LOM	Alt (Hgt)
GINDA	340°	19	011°	2180′(1642′)
OLURI	323°	19	010°	2180′(1642′)
ROLGA	060°	17	017°	2180′(1642′)
SUBOT	035°	19	014°	2180′(1642′)

*535 AP
N69 16.1 E087 15.3

N69 11.2 E087 06.4
(014° brg to AP)
At 2180′
(1642′)

N69 10.9 E087 04.4
(018° brg to AP)
At 2180′
(1642′)

N69 13.2 E087 10.0
At 2180′
(1642′)

N69 10.4 E087 07.1
(008° brg to AP)
At 2180′
(1642′)

ROLGA
N69 08.4 E086 21.5
At or above
FL69

16
RL 2W
061°

013°

138
037°
TANAM
N68 01.6 E080 54.2

18
SB 2W
035°

SUBOT
N69 00.9 E086 25.1
At or above
FL69

GN 2W
18
338°

OR 2W
19
321°

OLURI
N68 52.8 E087 25.1
At or above
FL69

GINDA
N68 52.2 E087 09.7
At or above
FL69

146
023°
VAGIR
N67 18.0 E081 47.2

N
NOT TO SCALE

87
350°

110
340°

IGARKA
D 112.3 IGR
N67 26.1 E086 38.3

INDER
N67 03.1 E087 44.6

FL CONVERSION	
FL79	***FL2400m***
FL69	***FL2100m***
FL59	***FL1800m***

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
4540′	***(4002′ - 1200m)***
2510′	***(1972′ - 600m)***
2180′	***(1642′ - 500m)***

CHANGES: New airport.

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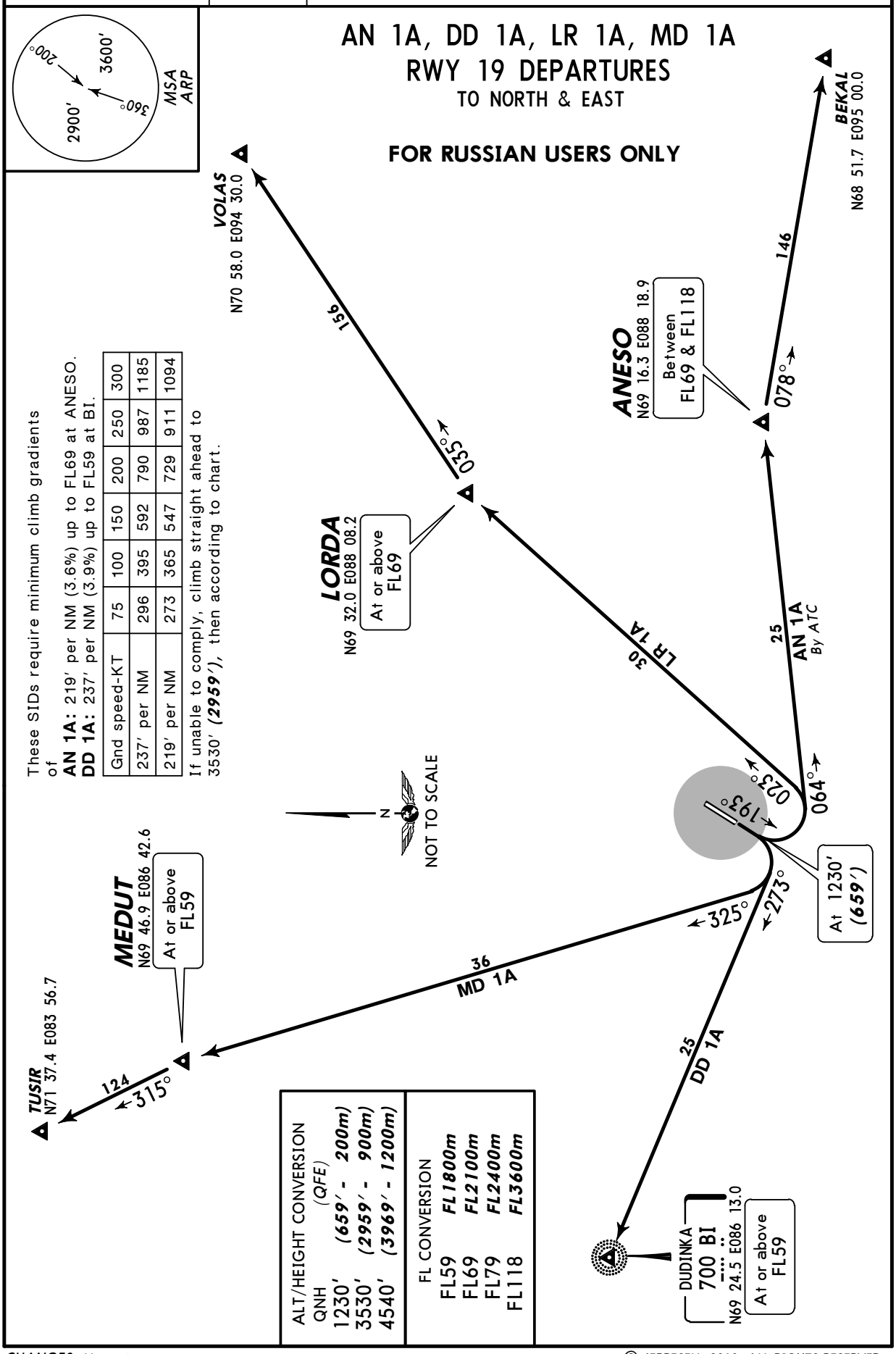
*NORILSK Control (ASR)	Apt Elev	
132.5 124.0X	594′	QNH on request **(QFE)** Trans level: FL59 FL69 if pressure is less than 744 mm (991.9 hPa) and 717 mm (959.9 hPa) or above FL79 if pressure is less than 717 mm (955.9 hPa) Trans alt: 4540′ ***(3969′)***



These SIDs require minimum climb gradients of
AN 1A: 219′ per NM (3.6%) up to FL69 at ANESO.
DD 1A: 237′ per NM (3.9%) up to FL59 at BI.

Gnd speed-KT	75	100	150	200	250	300
237′ per NM	296	395	592	790	987	1185
219′ per NM	273	365	547	729	911	1094

If unable to comply, climb straight ahead to 3530′ ***(2959′)***, then according to chart.

ALT/HEIGHT CONVERSION QNH (QFE)	
1230′	***(659′ - 200m)***
3530′	***(2959′ - 900m)***
4540′	***(3969′ - 1200m)***

FL CONVERSION	
FL59	***FL1800m***
FL69	***FL2100m***
FL79	***FL2400m***
FL118	***FL3600m***

CHANGES: New airport.

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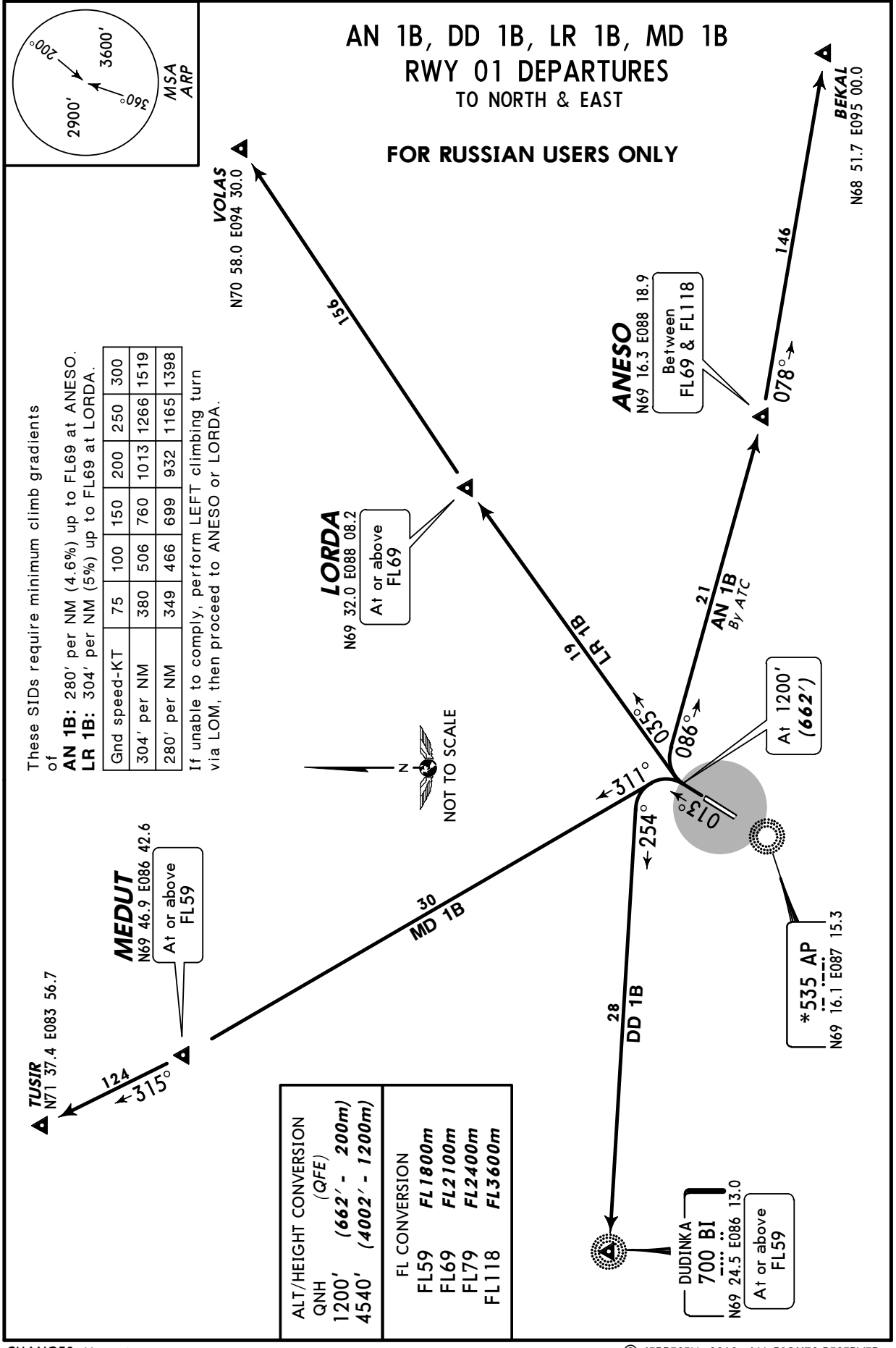
*NORILSK Control (ASR)	Apt Elev	
132.5 124.0X	594′	QNH on request **(QFE)** Trans level: FL59 FL69 if pressure is less than 744 mm (991.9 hPa) and 717 mm (959.9 hPa) or above FL79 if pressure is less than 717 mm (955.9 hPa) Trans alt: 4540′ ***(4002′)***

AN 1B, DD 1B, LR 1B, MD 1B
RWY 01 DEPARTURES
TO NORTH & EAST

FOR RUSSIAN USERS ONLY



These SIDs require minimum climb gradients of
AN 1B: 280′ per NM (4.6%) up to FL69 at ANESO.
LR 1B: 304′ per NM (5%) up to FL69 at LORDA.

Gnd speed-KT	75	100	150	200	250	300
304′ per NM	380	506	760	1013	1266	1519
280′ per NM	349	466	699	932	1165	1398

If unable to comply, perform LEFT climbing turn via LOM, then proceed to ANESO or LORDA.

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
1200′	***(662′ - 200m)***
4540′	***(4002′ - 1200m)***

FL CONVERSION	
FL59	***FL1800m***
FL69	***FL2100m***
FL79	***FL2400m***
FL118	***FL3600m***

CHANGES: New airport.

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U000/NSK
ALYKEL

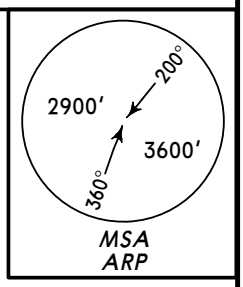
JEPPESEN
27 AUG 10 (10-3B)

NORILSK, RUSSIA
SID

*NORILSK Control (ASR)	Apt Elev	
132.5 124.0X	594′	QNH on request **(QFE)** Trans level: FL59 FL69 if pressure is less than 744 mm (991.9 hPa) and 717 mm (959.9 hPa) or above FL79 if pressure is less than 717 mm (955.9 hPa) Trans alt: 4540′ ***(3969′)***

GN 1A, OR 1A, RL 1A, SB 1A
RWY 19 DEPARTURES
TO SOUTH

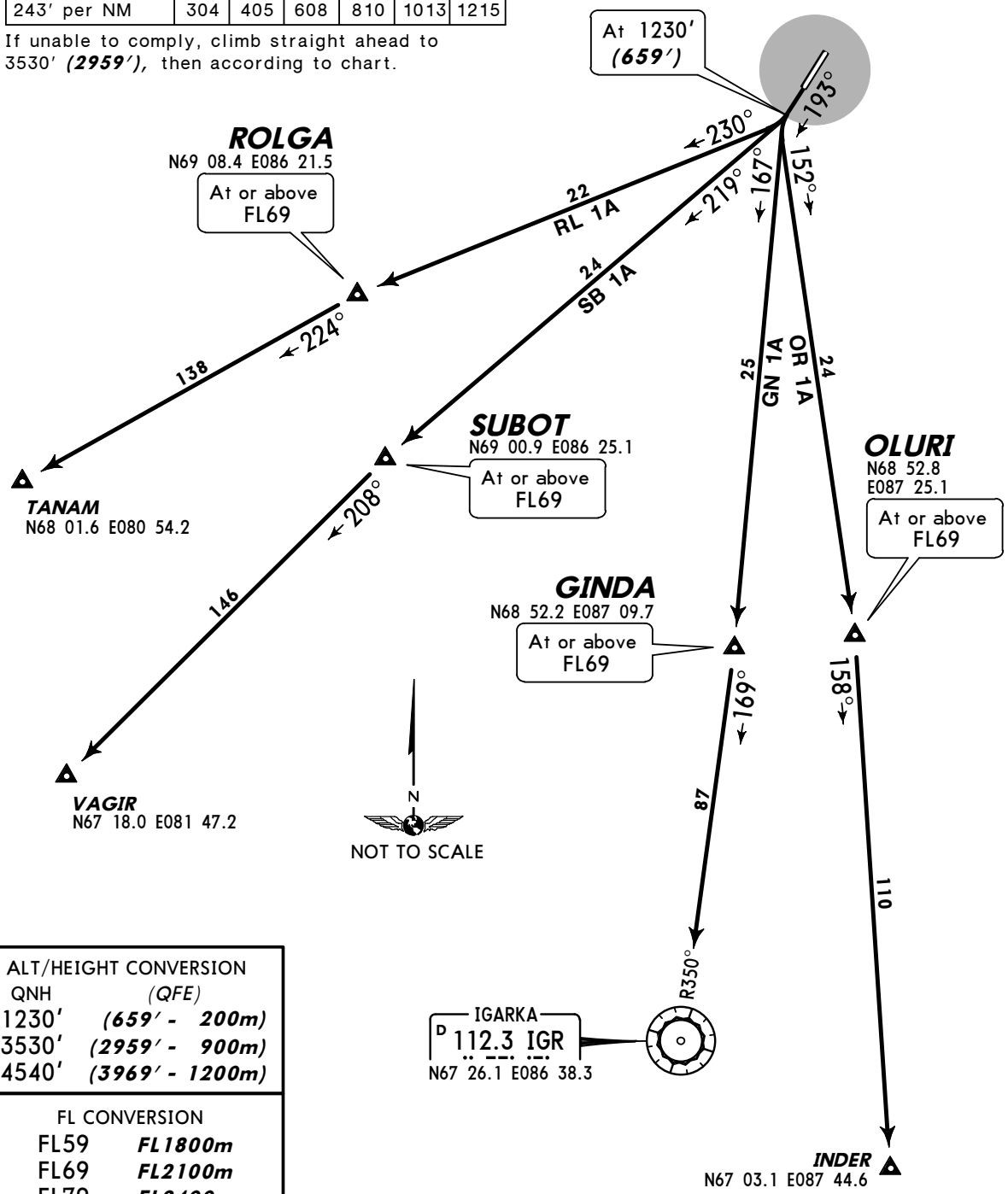
FOR RUSSIAN USERS ONLY



These SIDs require a minimum climb gradient of
243′ per NM (4%) up to FL69 at GINDA, OLURI, ROLGA or SUBOT.

Gnd speed-KT	75	100	150	200	250	300
243′ per NM	304	405	608	810	1013	1215

If unable to comply, climb straight ahead to 3530′ ***(2959′)***, then according to chart.



ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
1230′	***(659′ - 200m)***
3530′	***(2959′ - 900m)***
4540′	***(3969′ - 1200m)***

FL CONVERSION	
FL59	***FL1800m***
FL69	***FL2100m***
FL79	***FL2400m***

CHANGES: New airport.

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U000/NSK
ALYKEL

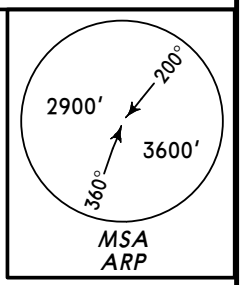
JEPPESEN
27 AUG 10 (10-3C)

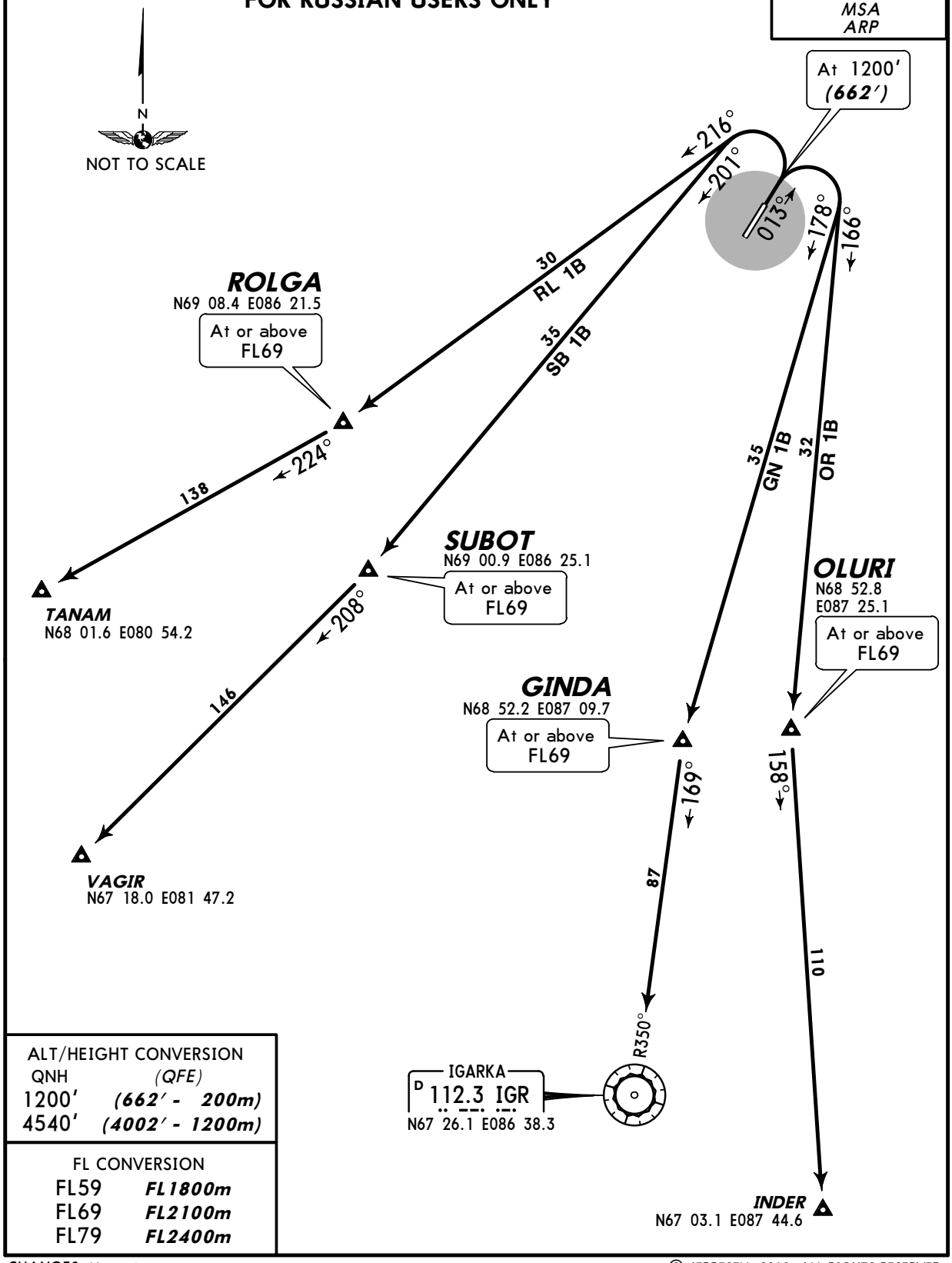
NORILSK, RUSSIA
SID

*NORILSK Control (ASR)	Apt Elev	
132.5 124.0X	594′	QNH on request **(QFE)** Trans level: FL59 FL69 if pressure is less than 744 mm (991.9 hPa) and 717 mm (959.9 hPa) or above FL79 if pressure is less than 717 mm (955.9 hPa) Trans alt: 4540′ ***(4002′)***

GN 1B, OR 1B, RL 1B, SB 1B
RWY 01 DEPARTURES
TO SOUTH

FOR RUSSIAN USERS ONLY





ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
1200′	***(662′ - 200m)***
4540′	***(4002′ - 1200m)***

FL CONVERSION	
FL59	***FL1800m***
FL69	***FL2100m***
FL79	***FL2400m***

CHANGES: New airport.

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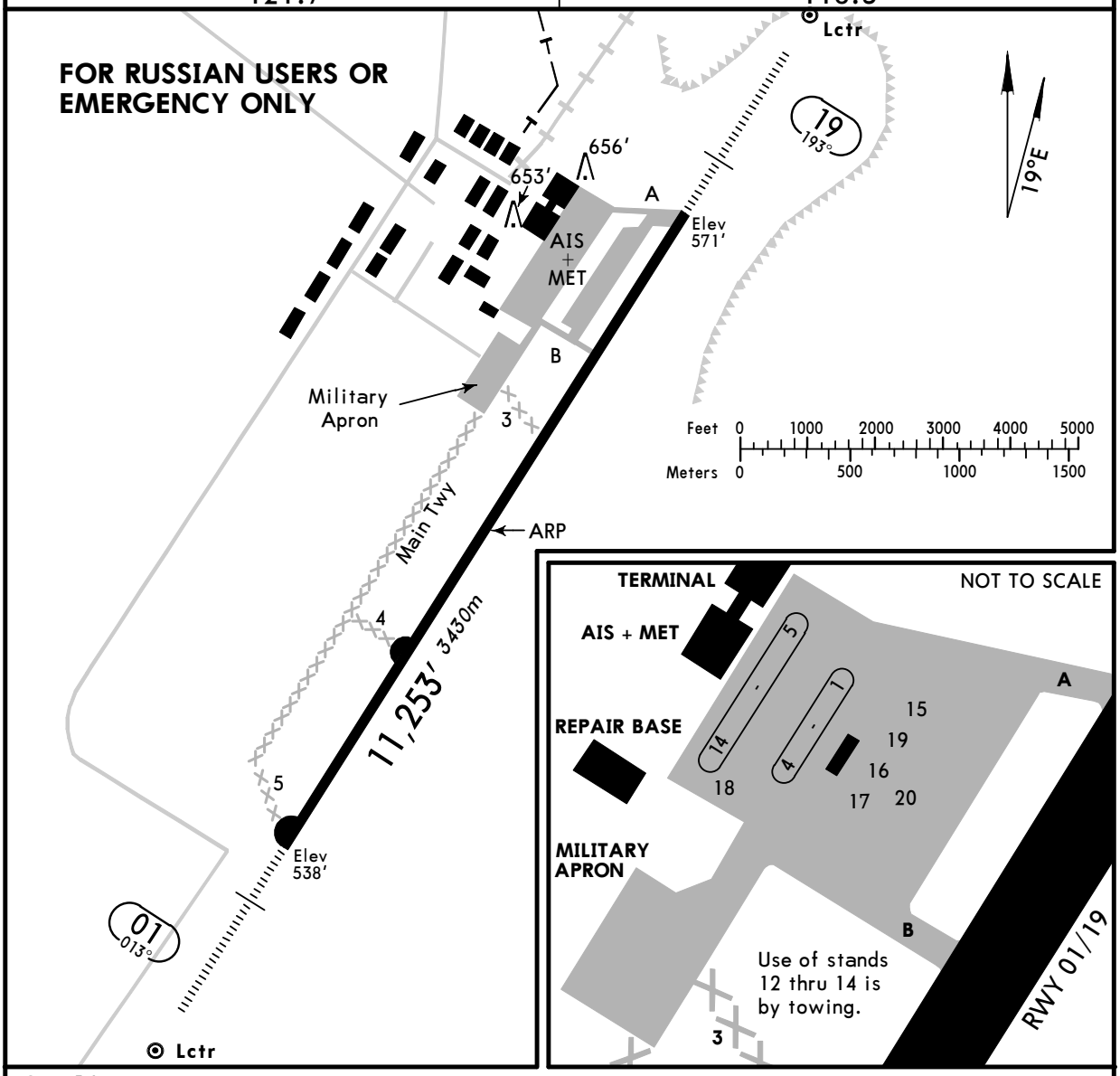
UOOO/NSK

Apt Elev **594′**
N69 18.6 E087 20.0

JEPPESEN
27 AUG 10 (10-9)

NORILSK, RUSSIA
ALYKEL

NORILSK Taxiing (GND)	Start (TWR)
121.7	118.3



GENERAL

RWY slope is beyond limits. Use extreme caution during landing.
Take-offs and landings for CAT B, C and D acft shall be carried out when the crosswind speed is 0.85 of the maximum value, at that the value of the crosswind component shall be reduced by 1m per sec under the appropriate friction coefficient specified in the AOM.
Turning of CAT C and D acft on rwy only at turning pads or at the intersection of rwy with twy A and twy B.

ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS LANDING BEYOND Threshold	Glide Slope	TAKE-OFF	WIDTH
01 ❶ 19	HIRL *(60m)* HIALS PAPI-L (angle 2.67°)		10,170′ *3100m*	10,925′ *3330m* ❷	148′ *45m*
	HIRL *(60m)* HIALS TDZ PAPI-L (angle 2.67°)		10,072′ *3070m*		

❶ Rwy edge lights at a distance of 10′/3m from rwy edge.
Elevated rwy edge lights 3′/0.7m
❷ First 328′/100m unusable for take-off.

TAKE-OFF

AIR CARRIER (JAA)
All Rwys

	LVP must be in force RCLM (DAY only) or RL	RCLM (DAY only) or RL
A	*250m*	*400m*
B		
C		
D	*300m*	

CHANGES: New airport.

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U000/NSK
ALYKEL

JEPPESEN
27 AUG 10 (11-1)

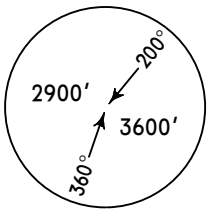
NORILSK, RUSSIA
ILS or 2 NDB Rwy 01

BRIEFING STRIP ™

NORILSK Control (APP)	NORILSK Radar	NORILSK Start (TWR)	Ground
132.5	120.4	118.3	121.7

LOC IAP **109.5**	*Final Apch Crs* **013°**	*GS* ***LOM*** 1194′ ***(656′)***	*ILS DA(H)* Refer to Minimums	*Apt Elev* 594′
NDB AP **535**		*Minimum Alt* ***LOM*** 1200′ ***(662′)***	*NDB MDA(H)* Refer to Minimums	*RWY* **538′**

MISSED APCH: Climb on 013° to 1200′ *(662′)*, then turn LEFT onto 193° climbing to 2510′ *(1972′)*, then according to chart.



MSA ARP

Alt Set: MM (hPa on req) | QNH on req **(QFE)** | Trans level: FL 59 ❶ | Trans alt: 4540′***(4002′)***

ALT/HEIGHT CONVERSION

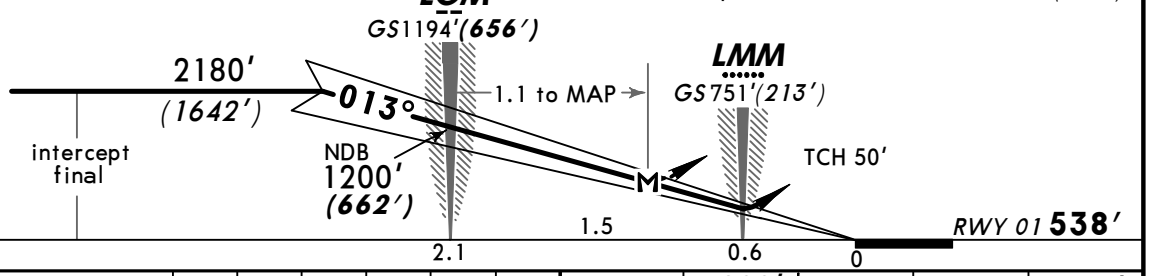
QNH	*(QFE)*
4540′	***(4002′ - 1200m)***
2510′	***(1972′ - 600m)***
2180′	***(1642′ - 500m)***
1200′	***(662′ - 200m)***
760′	***(222′ - 65m)***

FOR RUSSIAN USERS OR EMERGENCY ONLY

❶ FL 69, if pressure is less than 744mm (991.9 hPa) and 717mm (955.9 hPa) or above. FL 79, if pressure is less than 717mm (955.9 hPa).

193°
013°
260 A
535 AP
ILS
013° 109.5 IAP
013°
048°
028°
103°
at 2510′ *(1972′)*
at 2180′ *(1642′)*
1155′
1112′
1194′
1138′
69-20
69-10
86-40
86-50
87-00
87-10
87-20
87-30
87-40

NDB apch: Pass LMM not below 760′ *(222′)*.



Gnd speed-Kts	*70*	*90*	*100*	*120*	*140*	*160*
ILS GS or NDB Desc angle 2.67°	336	432	480	576	671	767
LOM to MAP 1.1	0:57	0:44	0:40	0:33	0:28	0:25

HIALS
PAPI

1200′ *(662′)* on 013°

193° LT

2510′ *(1972′)*

STRAIGHT-IN LANDING RWY **01**

ILS		LOC (GS out)	NDB	
DA(H) AB: 738′ ***(200′)*** CD: 768′ ***(230′)***			*MDA(H)* A: 840′ ***(302′)*** BCD: 870′ ***(332′)***	
FULL	ALS out			ALS out

PANS OPS

A	*800m*	*1200m*	NOT AUTHORIZED	*1200m*	*1900m*
B					
C					
D				*1600m*	

CHANGES: New procedure.

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U000/NSK
ALYKEL

JEPPESEN
27 AUG 10 (11-2)

NORILSK, RUSSIA
ILS or 2 NDB Rwy 19

BRIEFING STRIP ™

NORILSK Control (APP)	NORILSK Radar	NORILSK Start (TWR)	Ground
132.5	120.4	118.3	121.7

LOC IBF 110.3	Final Apch Crs 193°	GS LOM 1227′(656′)	ILS DA(H) Refer to Minimums	Apt Elev 594′
NDB BF 535		Minimum Alt LOM 1230′(659′)	NDB MDA(H) 920′(349′)	RWY 571′

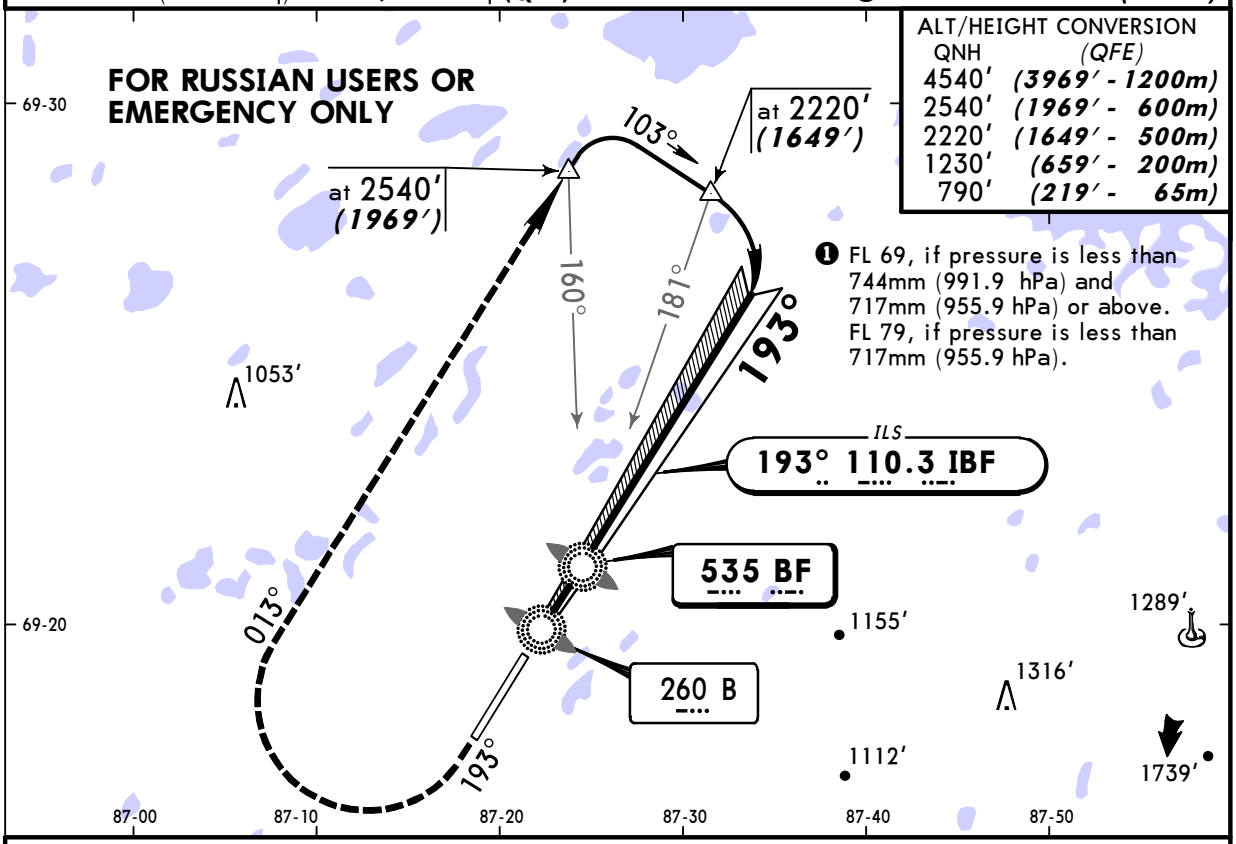
MISSED APCH: Climb on 193° to 1230′(659′), then turn RIGHT onto 013° climbing to 2540′(1969′), then according to chart.

MSA ARP: 2900′ (200°), 3600′ (360°)

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 59 ❶ Trans alt: 4540′(3969′)

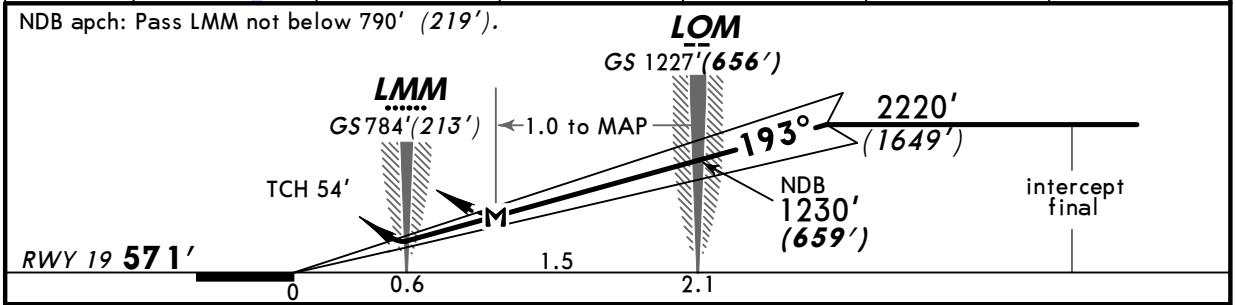
ALT/HEIGHT CONVERSION

QNH	(QFE)
4540′	(3969′ - 1200m)
2540′	(1969′ - 600m)
2220′	(1649′ - 500m)
1230′	(659′ - 200m)
790′	(219′ - 65m)



❶ FL 69, if pressure is less than 744mm (991.9 hPa) and 717mm (955.9 hPa) or above. FL 79, if pressure is less than 717mm (955.9 hPa).

NDB apch: Pass LMM not below 790′ (219′).



Gnd speed-Kts		70	90	100	120	140	160
ILS GS or NDB Desc angle	2.67°	336	432	480	576	671	767
LOM to MAP	1.0	0:51	0:40	0:36	0:30	0:26	0:23

HIALS PAPI | 1230′ (659′) on 193° | 013° RT | 2540′ (1969′)

STRAIGHT-IN LANDING RWY 19

	ILS FULL	ILS ALS out	LOC (GS out)	NDB	NDB ALS out
DA(H)	AB:771′(200′) CD:801′(230′)			MDA(H) 920′(349′)	
A	800m	1200m	NOT AUTHORIZED	1200m	1900m
B					
C					
D				1600m	2000m

PANS OPS

CHANGES: New procedure.

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