

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

No revision activity since Disc 09-2011

TERMINAL CHART NOTAMs

No Chart NOTAMs for Airport U000

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

U000/NSK
ALYKEL

JEPPESEN
 11 MAR 11 **10-2**

NORILSK, RUSSIA
STAR

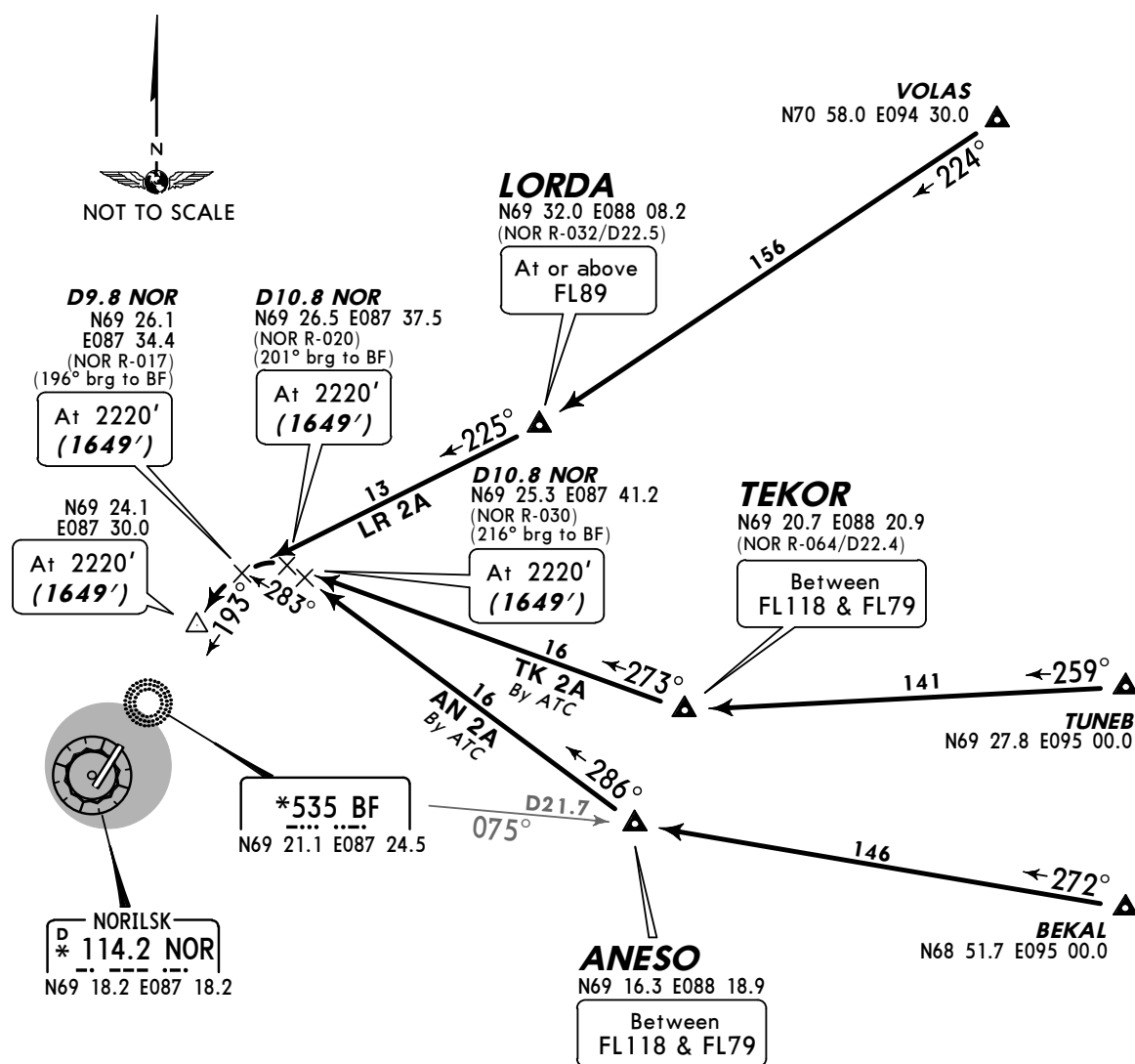
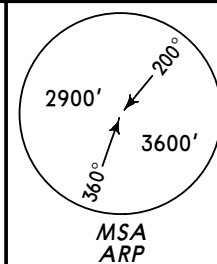
*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
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)
 FL79 if pressure is less than 717 mm (955.9 hPa)
 Trans alt: 4540' **(3969')**

AN 2A, LR 2A, TK 2A
RWY 19 ARRIVALS
FROM NORTHEAST & EAST

FOR RUSSIAN USERS ONLY



FL CONVERSION

FL118 **FL3600m**
 FL89 **FL2700m**
 FL79 **FL2400m**
 FL69 **FL2100m**
 FL59 **FL1800m**

ALT/HEIGHT CONVERSION

QNH **(QFE)**
 4540' **(3969' - 1200m)**
 2220' **(1649' - 500m)**

Arrival Data for ACFT with MAX 160KT

From	Track	Dist	QDM LOM	Alt (Hgt)
ANESO	281°	18	201°	2220' (1649')
LORDA	224°	14	194°	2220' (1649')
TEKOR	268°	17	200°	2220' (1649')

U000/NSK
ALYKEL

11 MAR 11 **JEPPESEN** (10-2A)

NORILSK, RUSSIA

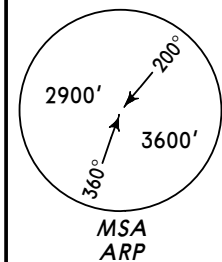
*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
594'

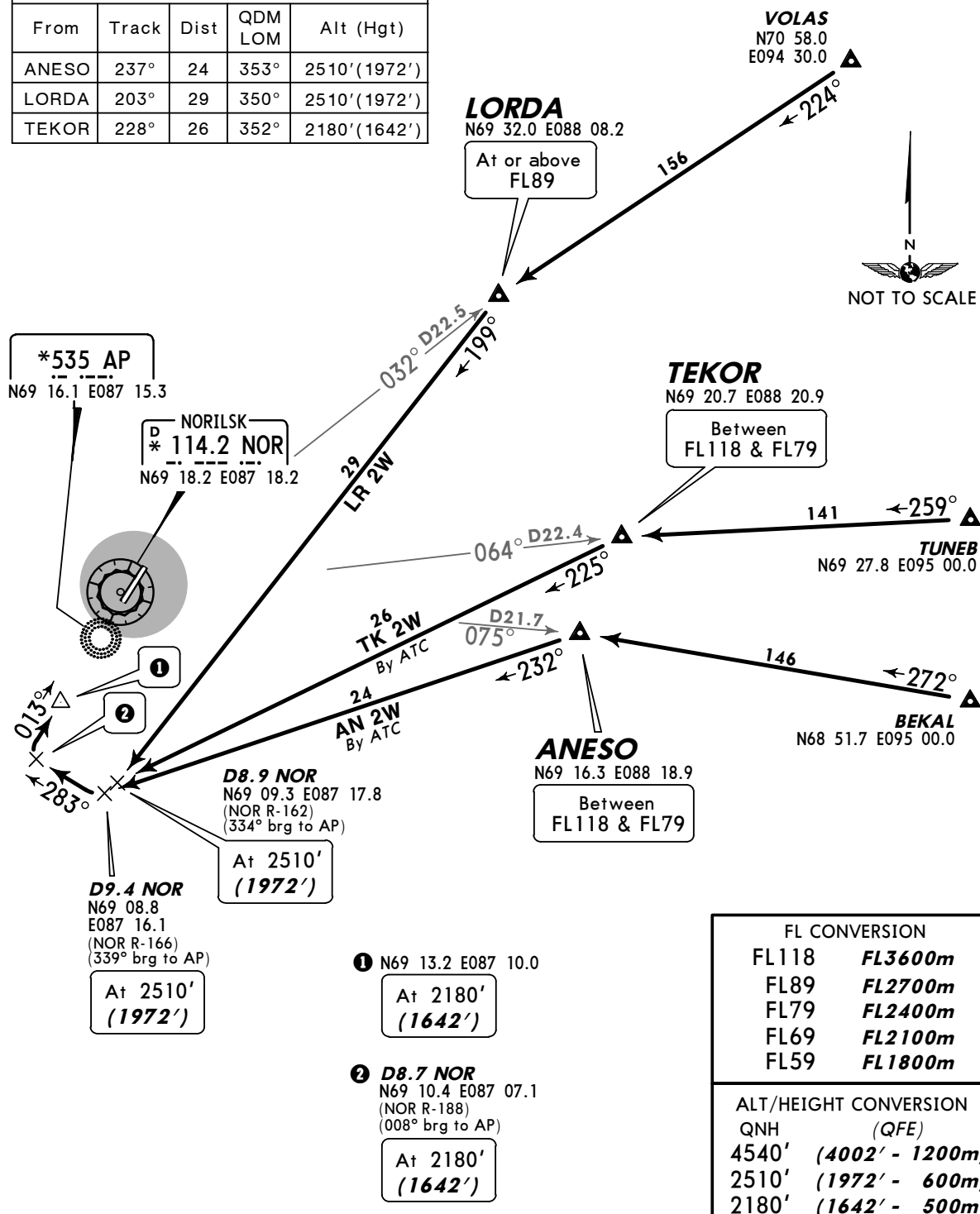
Alt set: MM (hPa on request) QNH on request **(QFE)**
Trans level: FL59
 FL69 if pressure is less than 744 mm (991.9 hPa)
 FL79 if pressure is less than 717 mm (955.9 hPa)
Trans alt: 4540' **(4002')**

AN 2W, LR 2W, TK 2W
RWY 01 ARRIVALS
FROM NORTHEAST & EAST

FOR RUSSIAN USERS ONLY



Arrival Data for ACFT with MAX 160KT				
From	Track	Dist	QDM LOM	Alt (Hgt)
ANESO	237°	24	353°	2510'(1972')
LORDA	203°	29	350°	2510'(1972')
TEKOR	228°	26	352°	2180'(1642')



U000/NSK
ALYKEL

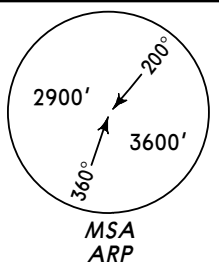
JEPPESSEN
11 MAR 11 **(10-2B)**

NORILSK, RUSSIA
STAR

*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
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)
FL79 if pressure is less than 717 mm (955.9 hPa)
Trans alt: 4540' **(3969')**



GN 2A, OR 2A, RL 2A, SB 2A
RWY 19 ARRIVALS
FROM SOUTH

FOR RUSSIAN USERS ONLY

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')

1 D10.8 NOR
N69 26.5 E087 37.5
(NOR R-020)
(201° brg to BF)
At 2220'
(1649')

2 D10.5 NOR
N69 23.8 E087 43.3
(NOR R-038)
(229° brg to BF)
At 2540'
(1969')

ROLGA
N69 08.4 E086 21.5
At or above
FL89

TANAM
N68 01.6 E080 54.2

VAGIR
N67 18.0 E081 47.2

SUBOT
N69 00.9 E086 25.1
At or above
FL89

GINDA
N68 52.2 E087 09.7
At or above
FL89

OLURI
N68 52.8 E087 25.1
At or above
FL89

NORILSK
D 114.2 NOR
N69 18.2 E087 18.2

IGARKA
D 112.3 IGR
N67 26.1 E086 38.3

INDER
N67 03.1 E087 44.6

FL CONVERSION
FL89 **FL2700m**
FL79 **FL2400m**
FL69 **FL2100m**
FL59 **FL1800m**

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

NOT TO SCALE

U000/NSK
ALYKEL

JEPPesen
11 MAR 11 **(10-2C)**

NORILSK, RUSSIA
STAR

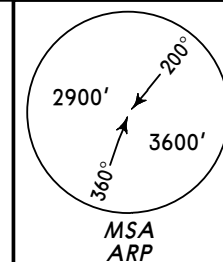
*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
594'

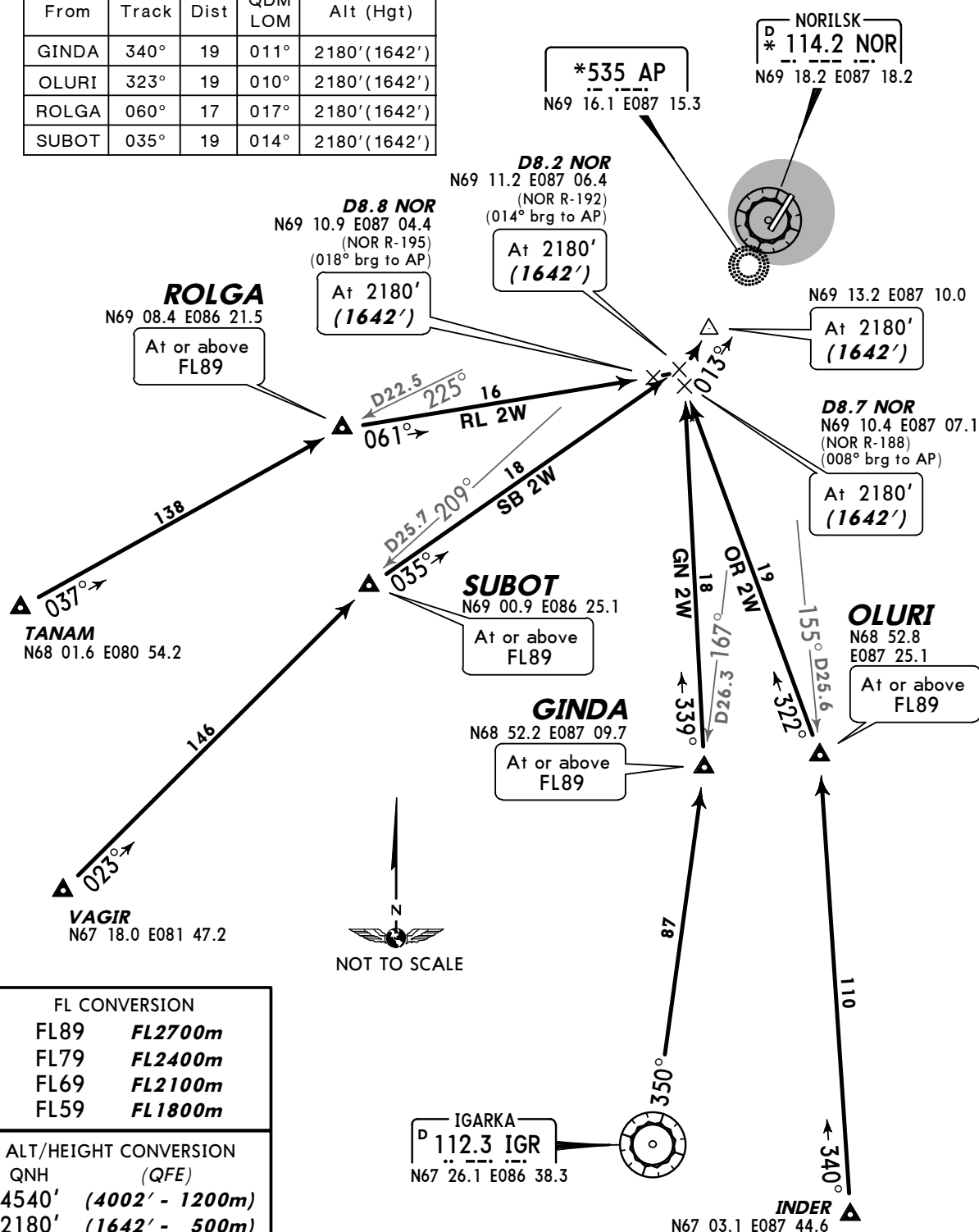
Alt set: MM (hPa on request) QNH on request **(QFE)**
Trans level: FL59
FL69 if pressure is less than 744 mm (991.9 hPa)
FL79 if pressure is less than 717 mm (955.9 hPa)
Trans alt: 4540' **(4002')**

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')



FL CONVERSION

FL89 **FL2700m**
FL79 **FL2400m**
FL69 **FL2100m**
FL59 **FL1800m**

ALT/HEIGHT CONVERSION

QNH **(QFE)**
4540' **(4002' - 1200m)**
2180' **(1642' - 500m)**

U000/NSK
ALYKEL

JEPPESSEN
 11 MAR 11 **(10-2D)**

NORILSK, RUSSIA
STAR

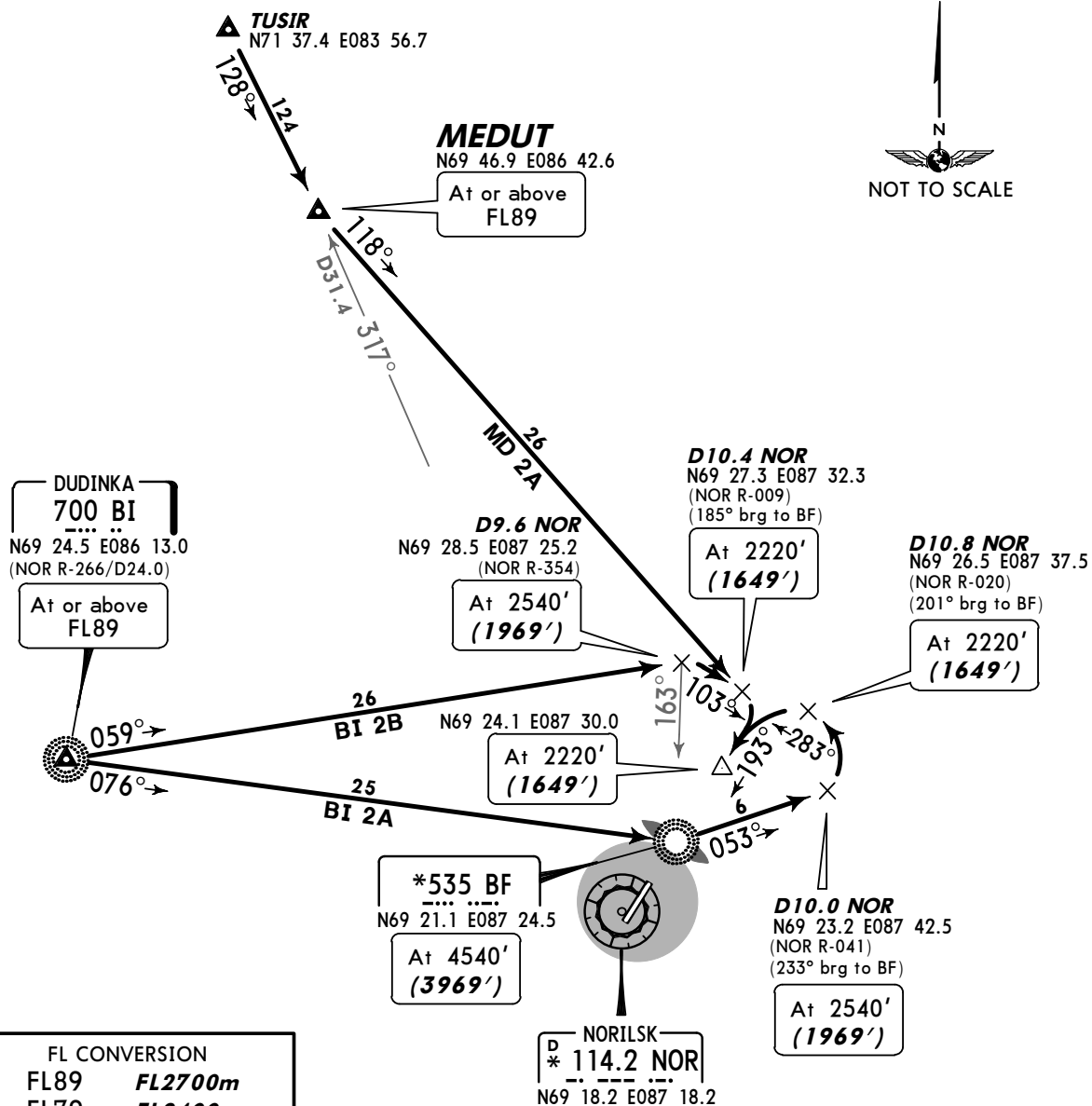
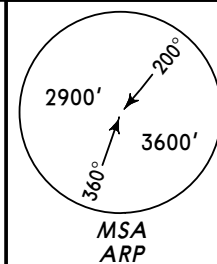
*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
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)
 FL79 if pressure is less than 717 mm (955.9 hPa)
 Trans alt: 4540' **(3969')**

BI 2A, BI 2B, MD 2A
RWY 19 ARRIVALS
FROM WEST & NORTHWEST

FOR RUSSIAN USERS ONLY



FL CONVERSION
 FL89 **FL2700m**
 FL79 **FL2400m**
 FL69 **FL2100m**
 FL59 **FL1800m**

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

NORILSK
*** 114.2 NOR**
 N69 18.2 E087 18.2

Arrival Data for ACFT with MAX 160KT

From	Track	Dist	QDM LOM	Alt (Hgt)
BI	066°	27	175°	2540' (1969')
MEDUT	121°	27	187°	2220' (1649')

U000/NSK
ALYKEL

JEPPESEN
 11 MAR 11 **(10-2E)**

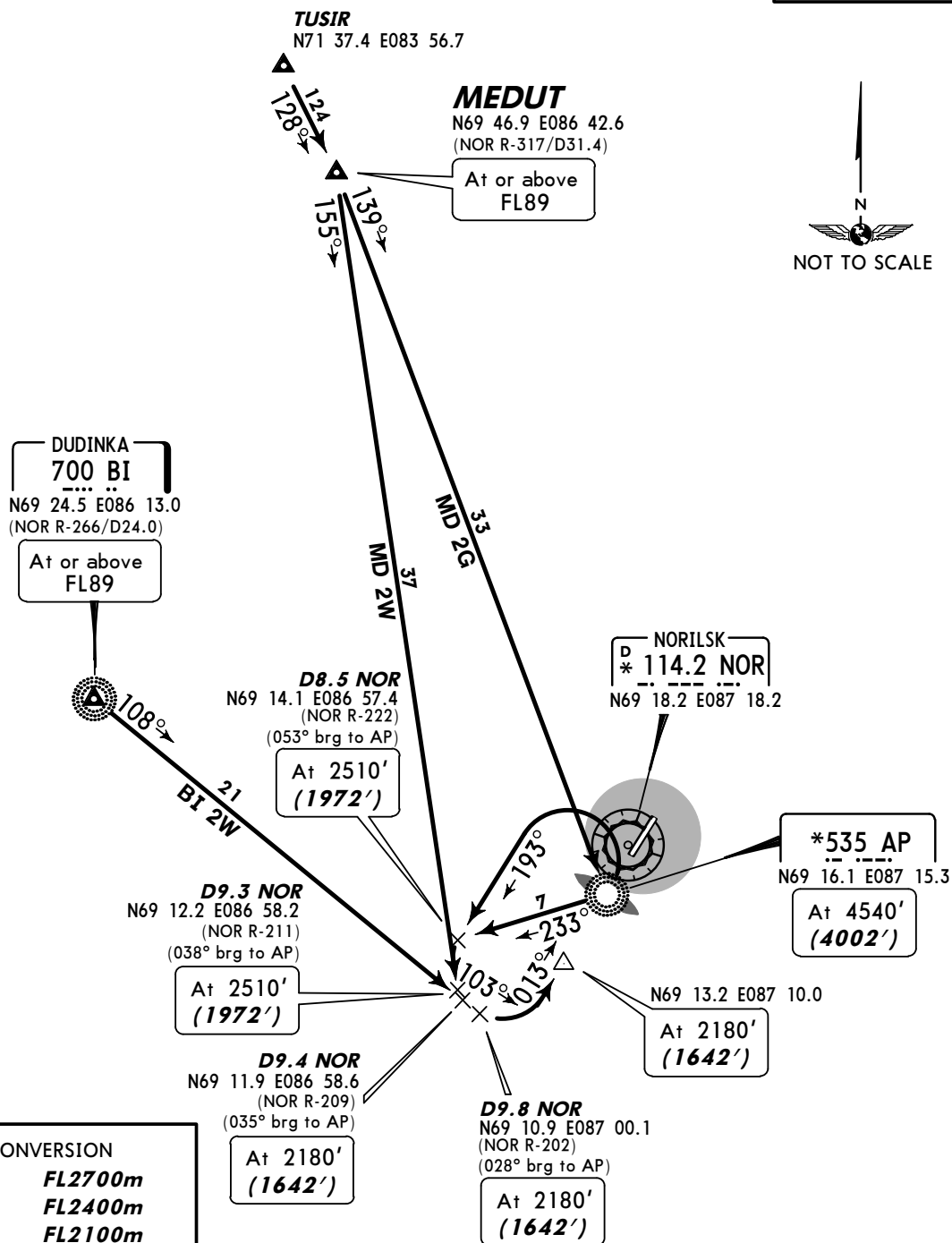
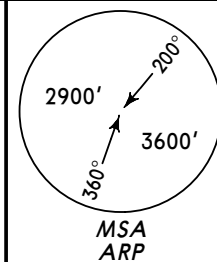
NORILSK, RUSSIA
STAR

*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
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)
 FL79 if pressure is less than 717 mm (955.9 hPa)
 Trans alt: 4540' **(4002')**

BI 2W, MD 2G, MD 2W
RWY 01 ARRIVALS
FROM WEST & NORTHWEST
FOR RUSSIAN USERS ONLY



FL CONVERSION	
FL89	FL2700m
FL79	FL2400m
FL69	FL2100m
FL59	FL1800m

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

Arrival Data for ACFT with MAX 160KT				
From	Track	Dist	QDM LOM	Alt (Hgt)
BI	105°	22	026°	2180'(1642')
MEDUT	149°	35	032°	2510'(1972')

U000/NSK
ALYKEL

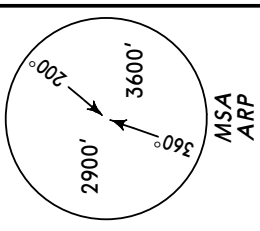
JEPPesen
 11 MAR 11 **10-3**

NORILSK, RUSSIA
SID

*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
594'

QNH on request (QFE)
 Trans level: FL59
 FL69 if pressure is less than 744 mm (991.9 hPa)
 FL79 if pressure is less than 717 mm (955.9 hPa)
 Trans alt: 4540' (**3969'**)



AN 1A, BI 1A
LR 1A, MD 1A, TK 1A
RWY 19 DEPARTURES
TO NORTH & EAST

FOR RUSSIAN USERS ONLY

These SIDs require minimum climb gradients

of **AN 1A, TK 1A**: 280' per NM (4.6%) up to FL79 at ANESO or TEKOR.

LR 1A: 286' per NM (4.7%) up to FL89 at LORDA.

MD 1A: 243' per NM (4%) up to FL89 at MEDUT.

Gnd speed-KT	75	100	150	200	250	300
286' per NM	357	476	714	952	1190	1428
280' per NM	349	466	699	932	1165	1398
243' per NM	304	405	608	810	1013	1215

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

TUSIR
 N71 37.4 E083 56.7
 124
 315°

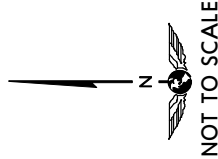
MEDUT
 N69 46.9 E086 42.6
 At or above FL89

LORDA
 N69 32.0 E088 08.2
 At or above FL89

TEKOR
 N69 20.7 E088 20.9
 Between FL79 & FL118

ANESO
 N69 16.3 E088 18.9
 Between FL79 & FL118

BEKAL
 N68 51.7 E095 00.0



NORILSK
 P 114.2 NOR
 N69 18.2 E087 18.2

ALT/HEIGHT CONVERSION (QFE)

QNH	1230'	(659' - 200m)
	3530'	(2959' - 900m)
	4540'	(3969' - 1200m)

FL CONVERSION

FL59	FL1800m
FL69	FL2100m
FL79	FL2400m
FL89	FL2700m
FL118	FL3600m



DUDINKA
 700 BI
 N69 24.5 E086 13.0
 (NOR R-266/D24.0)
 At or above FL89

U000/NSK
ALYKEL

11 MAR 11 **JEPPESEN** (10-3A)

NORILSK, RUSSIA

***NORILSK Control (ASR)**
132.5 124.0X

Apt Elev
594'

QNH on request (**QFE**)
Trans level: FL59
FL69 if pressure is less than 744 mm (991.9 hPa)
FL79 if pressure is less than 717 mm (955.9 hPa)
Trans alt: 4540' (**4002'**)

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

FOR RUSSIAN USERS ONLY

TUSIR N71 37.4 E083 56.7
124°
← 315°

MEDUT
N69 46.9 E086 42.6
At or above FL89

LORDA
N69 32.0 E088 08.2
(NOR R-032/D22.5)
At or above FL89

TEKOR
N69 20.7 E088 20.9
Between FL79 & FL118

ANESKO
N69 16.3 E088 18.9
Between FL79 & FL118

BEKAL
N68 51.7 E095 00.0

DUDINKA
700 BI
N69 24.5 E086 13.0
(NOR R-266/D24.0)
At or above FL89

NORILSK
P * 114.2 NOR
N69 18.2 E087 18.2

***535 AP**
N69 16.1 E087 15.3

Gnd speed-KT	75	100	150	200	250	300
377' per NM	471	628	942	1256	1570	1884
340' per NM	425	567	851	1134	1418	1701
310' per NM	387	516	775	1033	1291	1549
267' per NM	334	446	668	891	1114	1337

VOLAS
N70 58.0 E094 30.0
136°
← 033°

MD 1B
30
← 317°
D31.4

BI 1B
28
← 254°
013°

TK 1B
22
By ATC
064° D22.4

AN 1B
21
By ATC
075° D21.7

TUNEB
N69 27.8 E095 00.0
141°
← 066°

146°
← 077°

AT NOT TO SCALE

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

FL CONVERSION
FL59 **FL1800m**
FL69 **FL2100m**
FL79 **FL2400m**
FL89 **FL2700m**
FL118 **FL3600m**

U000/NSK
ALYKEL

JEPPESSEN
 11 MAR 11 **(10-3B)**

NORILSK, RUSSIA
SID

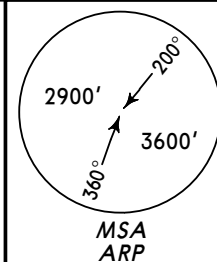
*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
594'

QNH on request **(QFE)**
 Trans level: FL59
 FL69 if pressure is less than 744 mm (991.9 hPa)
 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

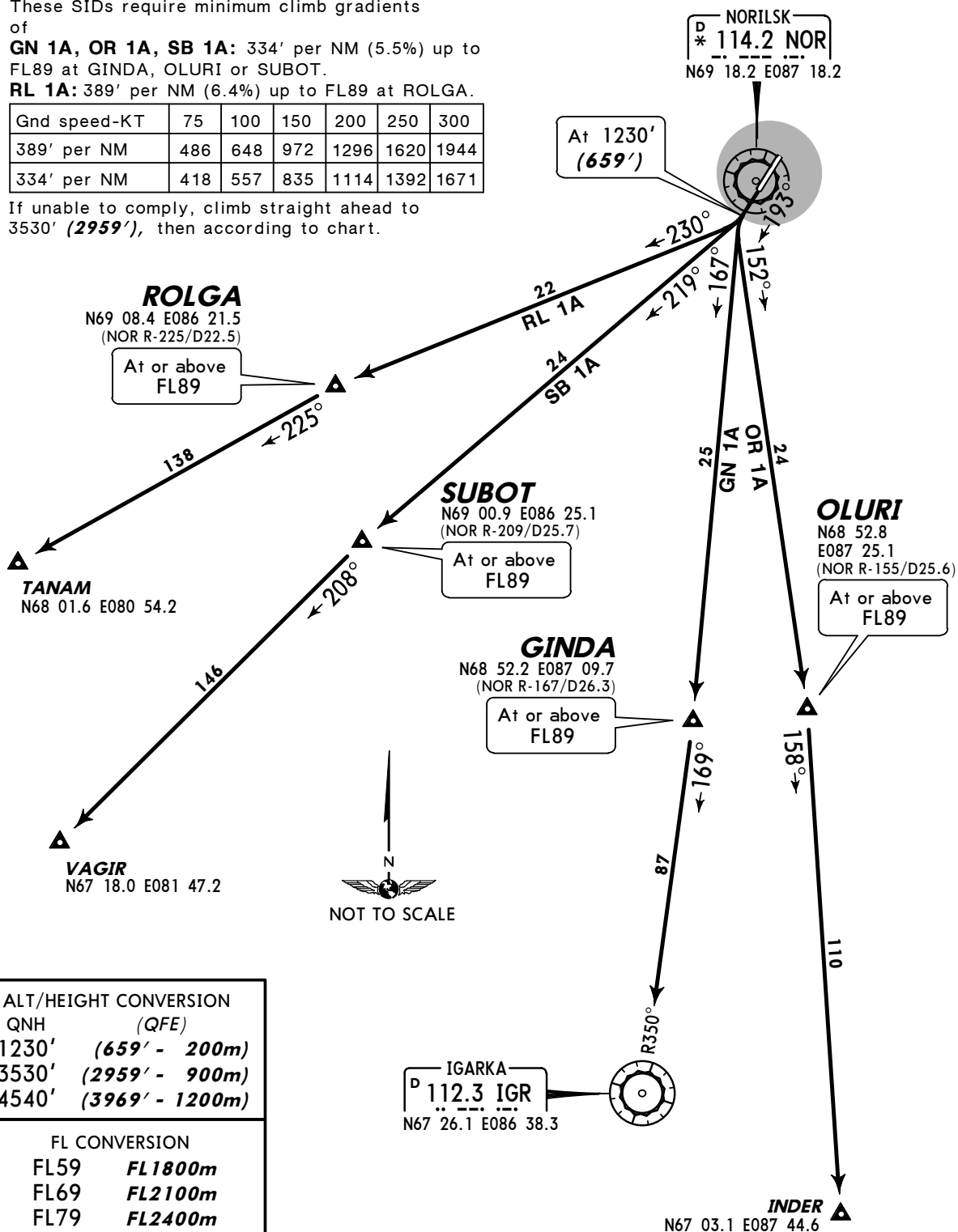
FOR RUSSIAN USERS ONLY



These SIDs require minimum climb gradients of
GN 1A, OR 1A, SB 1A: 334' per NM (5.5%) up to FL89 at GINDA, OLURI or SUBOT.
RL 1A: 389' per NM (6.4%) up to FL89 at ROLGA.

Gnd speed-KT	75	100	150	200	250	300
389' per NM	486	648	972	1296	1620	1944
334' per NM	418	557	835	1114	1392	1671

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
FL89	FL2700m

U000/NSK
ALYKEL

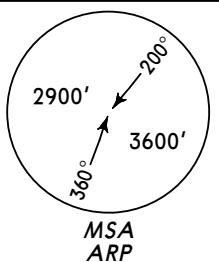
JEPPESSEN
 11 MAR 11 **(10-3C)**

NORILSK, RUSSIA
SID

*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
594'

QNH on request **(QFE)**
 Trans level: FL59
 FL69 if pressure is less than 744 mm (991.9 hPa)
 FL79 if pressure is less than 717 mm (955.9 hPa)
 Trans alt: 4540' **(4002')**



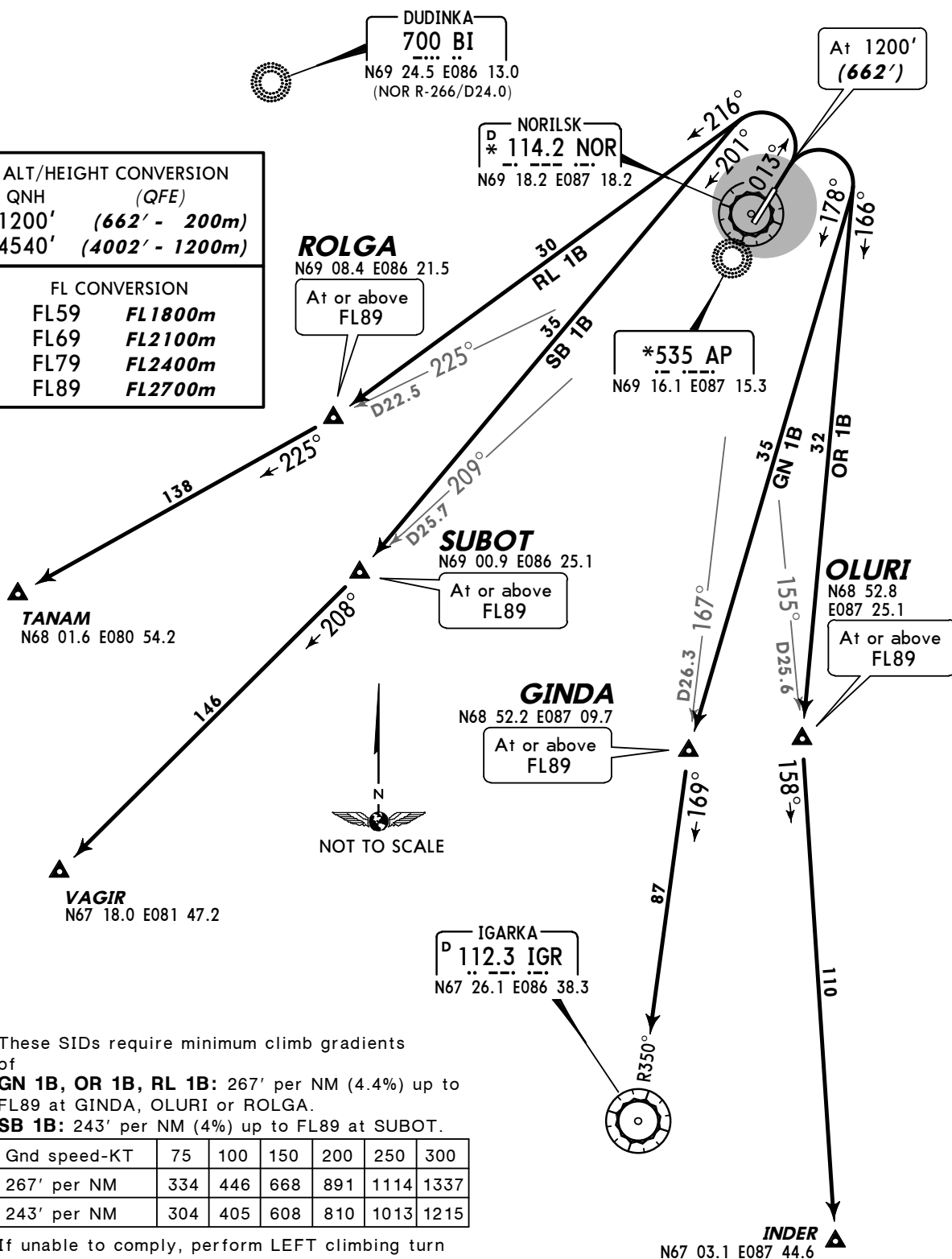
GN 1B, OR 1B, RL 1B, SB 1B
RWY 01 DEPARTURES
TO SOUTH

LORDA
 N69 32.0 E088 08.2
 (NOR R-032/D22.5)

FOR RUSSIAN USERS ONLY

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

FL CONVERSION
 FL59 **FL1800m**
 FL69 **FL2100m**
 FL79 **FL2400m**
 FL89 **FL2700m**



These SIDs require minimum climb gradients of
GN 1B, OR 1B, RL 1B: 267' per NM (4.4%) up to FL89 at GINDA, OLURI or ROLGA.
SB 1B: 243' per NM (4%) up to FL89 at SUBOT.

Gnd speed-KT	75	100	150	200	250	300
267' per NM	334	446	668	891	1114	1337
243' per NM	304	405	608	810	1013	1215

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

U000/NSK

Apt Elev **594'**
N69 18.6 E087 20.0

JEPPesen

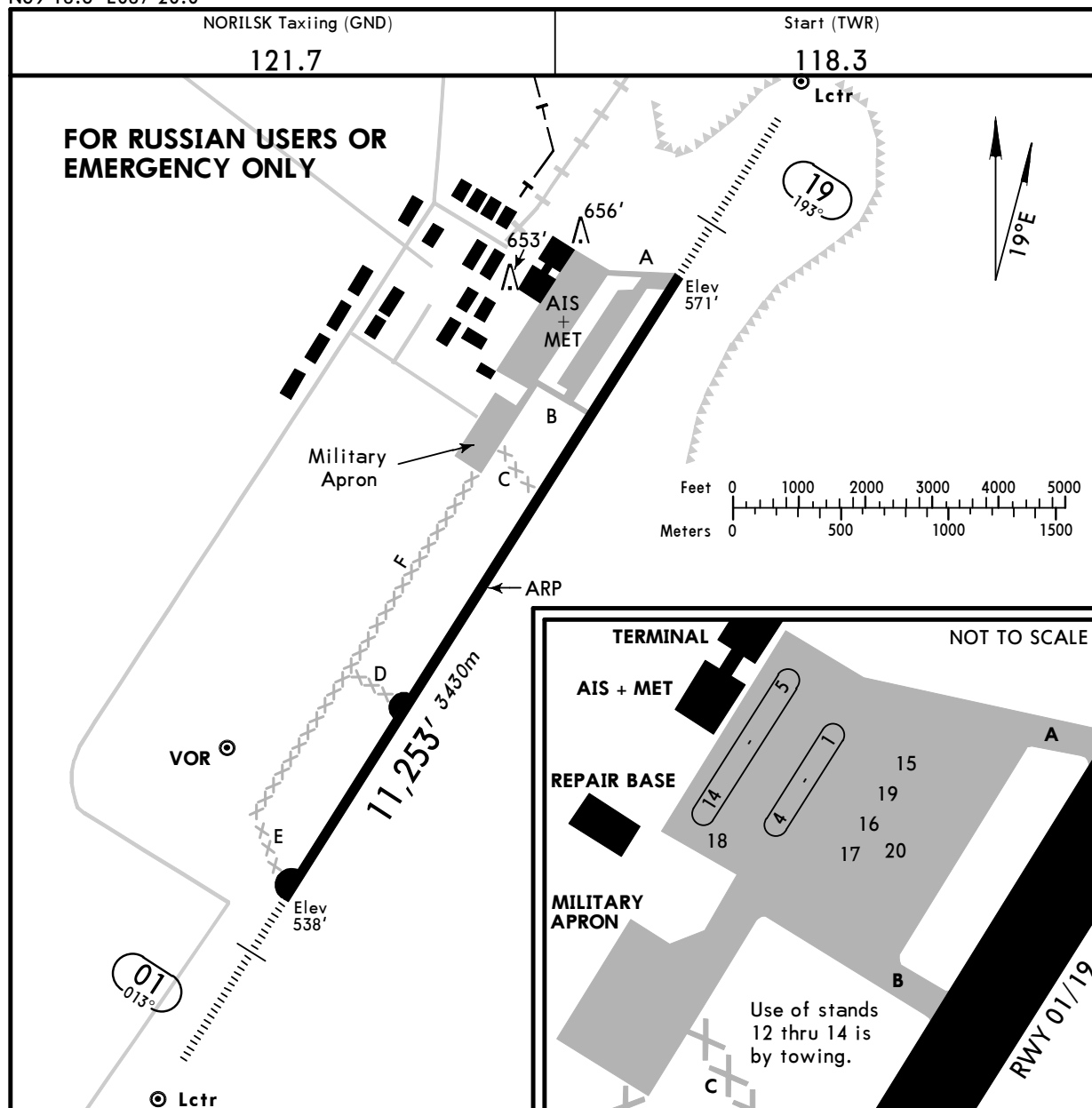
25 FEB 11

10-9

Eff 10 Mar

NORILSK, RUSSIA

ALYKEL



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.

ADDITIONAL RUNWAY INFORMATION

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

① 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

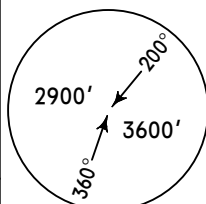
A		
B	250m	400m
C		
D	300m	

U000/NSK
ALYKEL

JEPPesen
25 FEB 11 **(11-1)** Eff 10 Mar

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 Aptch Crs 013°	GS LOM 1194'(656')	ILS DA(H) Refer to Minimums	Apt Elev 594' RWY 538'	 MSA ARP	
NDB AP 535		Minimum Alt D5.8 NOR 2180'(1642')	NDB MDA(H) Refer to Minimums			
MISSED APCH: Climb on 013° to 1200'(662'), then turn LEFT onto 193° climbing to 2510'(1972'), then according to chart.						
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 59 ①		Trans alt: 4540'(4002')

ALT/HEIGHT CONVERSION	
QNH	(QFE)
4540'	(4002' - 1200m)
2510'	(1972' - 600m)
2180'	(1642' - 500m)
1200'	(662' - 200m)
760'	(222' - 65m)

69-20

- 1** 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).

D9.6/
R-218 NOR
at 2510'
(1972')

69-10

D9.8/
R-202 NOR
at 2180'
(1642')

86-40

86-50

87-00

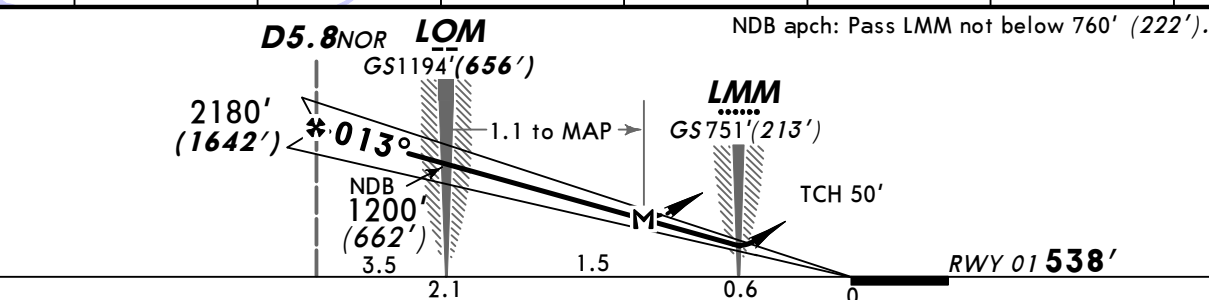
87-10

87-20

87-30

87-40

**FOR RUSSIAN USERS
OR EMERGENCY ONLY**



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1200' (662')	on 013°	193°	2510' (1972')
ILS GS or NDB Desc angle 2.67°	336	432	480	576	671	767	PAPI				
LOM to MAP	1.1	0:57	0:44	0:40	0:33	0:28	0:25				

ILS		STRAIGHT-IN LANDING RWY 01		NDB	
DA(H)	AB: 738' (200')	LOC (GS out)		MDA(H)	A: 840' (302')
	CD: 768' (230')				BCD: 870' (332')
FULL		ALS out		ALS out	
A					
B					
C	800m	1200m	NOT AUTHORIZED	1200m	1900m
D				1600m	

PANS OPS

U000/NSK
ALYKEL

JEPPesen
25 FEB 11 **11-2** Eff 10 Mar

NORILSK, RUSSIA
ILS or 2 NDB Rwy 19

BRIEFING STRIP

NORILSK Control (APP)

132.5

NORILSK Radar

120.4

NORILSK Start (TWR)

118.3

Ground

121.7

LOC
IBF

110.3

NDB
BF

535

Final
Apch Crs

193°

GS
LOM

1227' (656')

Minimum Alt
D7.3 NOR

2220' (1649')

ILS
DA(H)
Refer to
Minimums

NDB
MDA(H)

920' (349')

Apt Elev 594'

RWY 571'

2900'

3600'

200°

360°

MSA
ARP

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

Alt Set: MM (hPa on req)

QNH on req (QFE)

Trans level: FL 59 1

Trans alt: 4540' (3969')

LOC
IBF

110.3

NDB
BF

535

Final
Apch Crs

193°

GS
LOM

1227' (656')

Minimum Alt
D7.3 NOR

2220' (1649')

ILS
DA(H)
Refer to
Minimums

NDB
MDA(H)

920' (349')

Apt Elev 594'

RWY 571'

2900'

3600'

200°

360°

MSA
ARP

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

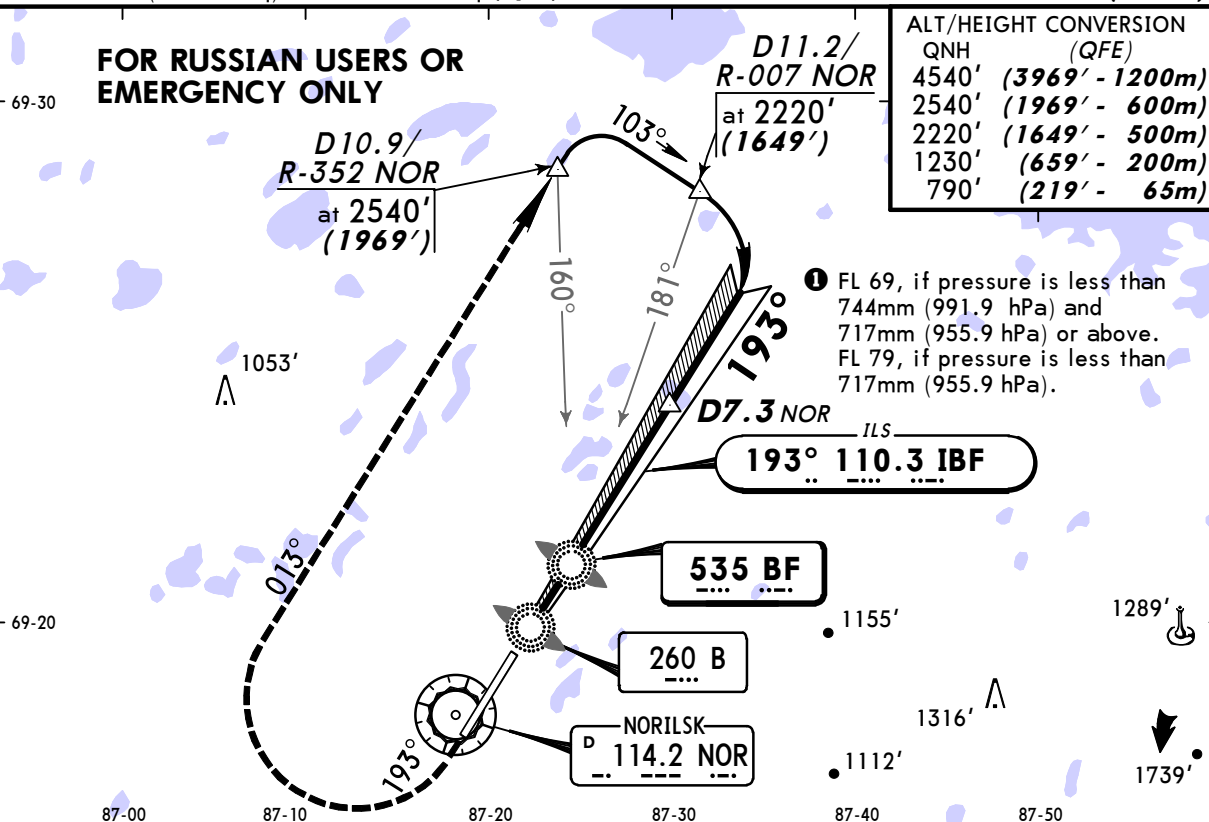
Alt Set: MM (hPa on req)

QNH on req (QFE)

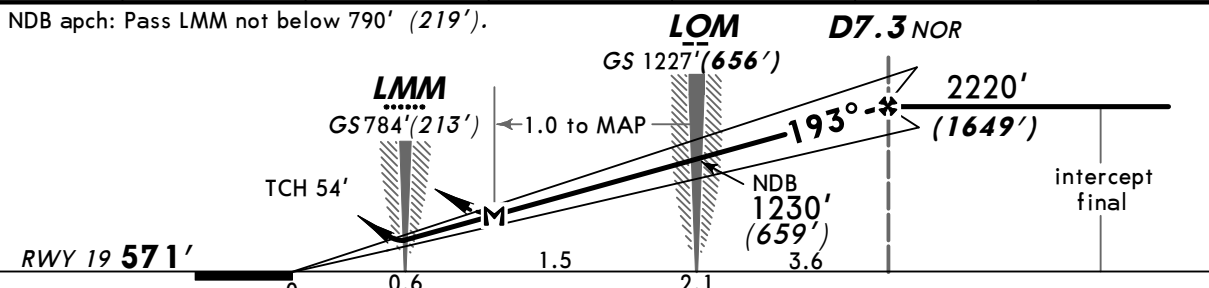
Trans level: FL 59 1

Trans alt: 4540' (3969')

**FOR RUSSIAN USERS OR
EMERGENCY ONLY**



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



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1230' (659') on 193°	013°	2540' (1969')
ILS GS or NDB Desc angle 2.67°	336	432	480	576	671	767	PAPI			
LOM to MAP 1.0	0:51	0:40	0:36	0:30	0:26	0:23				

ILS		STRAIGHT-IN LANDING RWY 19		NDB	
DA(H)	AB: 771' (200')	LOC (GS out)		MDA(H)	920' (349')
CD: 801' (230')					
FULL	ALS out				ALS out
A					
B				1200m	1900m
C	800m	NOT AUTHORIZED		1600m	2000m
D	1200m				

PANS OPS