

Page 1

Changed chart(s) since Disc 04-2011

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

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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Norilsk, (Alykel - UOOO)

ADD	AIRPORT, AIRPORT INFO, PAR...	10-9	25 ôââ 2011	10 ìàď 2011
DEL	AIRPORT, AIRPORT INFO, TAK...	10-9	25 ôââ 2011	10 ìàď 2011
REV	ILS OR 2 NDB RWY 01	11-1	25 ôââ 2011	10 ìàď 2011
REV	ILS OR 2 NDB RWY 19	11-2	25 ôââ 2011	10 ìàď 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

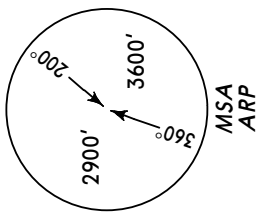
JEPPESEN
27 AUG 10 **10-2**

NORILSK, RUSSIA
STAR

*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
594'

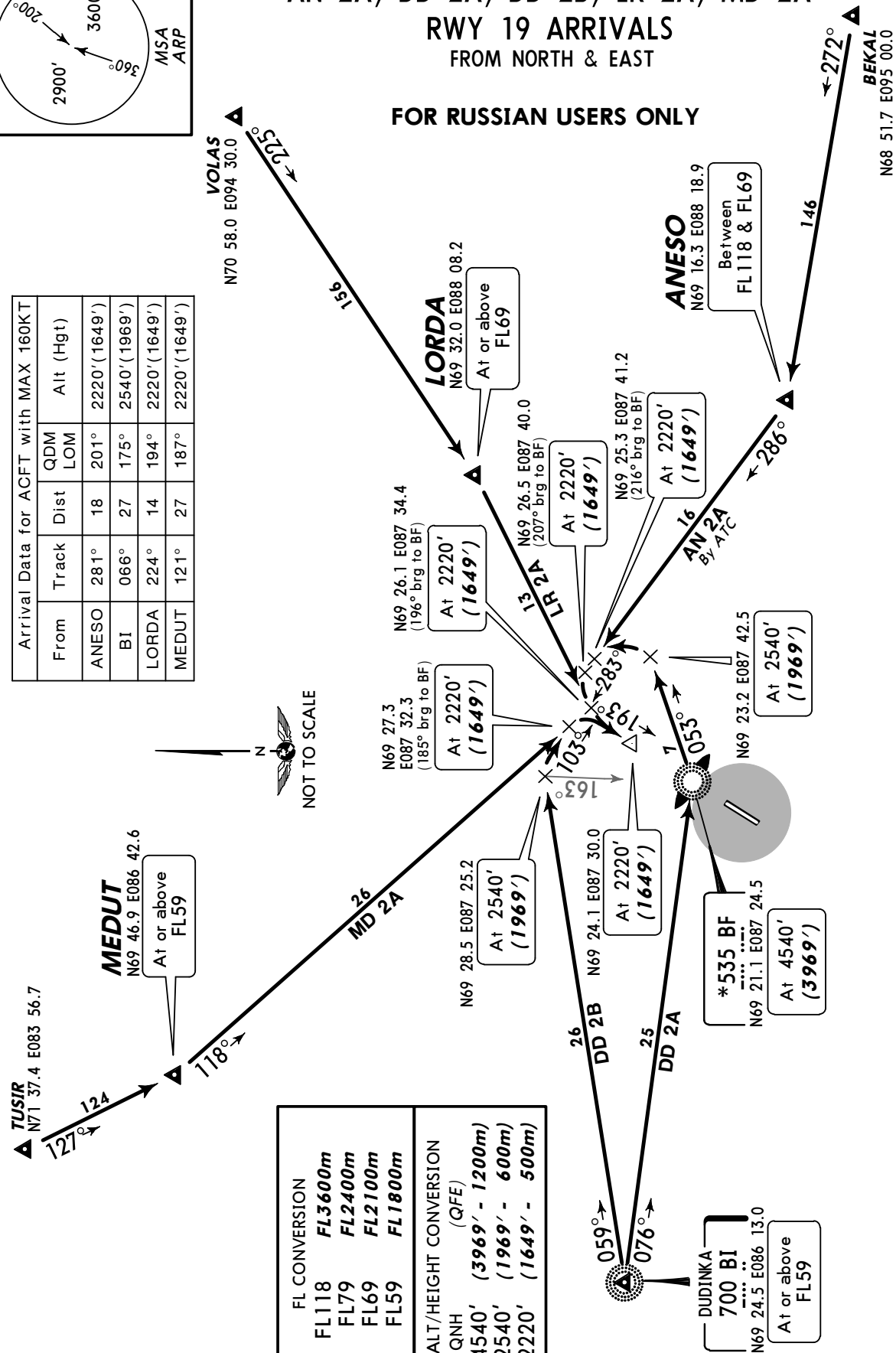
Alt set: MM (hPa on request) QNH on request **(QFE)**
Trans level: FL59
FL69 if pressure is less than 744 mm (991.9 hPa)
and 717 mm (959.9 hPa) or above
FL79 if pressure is less than 717 mm (955.9 hPa)
Trans alt: 4540' **(3969')**



AN 2A, DD 2A, DD 2B, LR 2A, MD 2A
RWY 19 ARRIVALS
FROM NORTH & EAST

FOR RUSSIAN USERS ONLY

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')



U000/NSK
ALYKEL

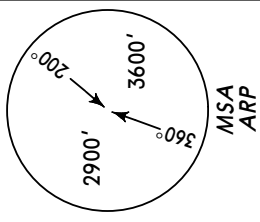
JEPPESSEN
 27 AUG 10 **10-2A**

NORILSK, RUSSIA
STAR

*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
594'

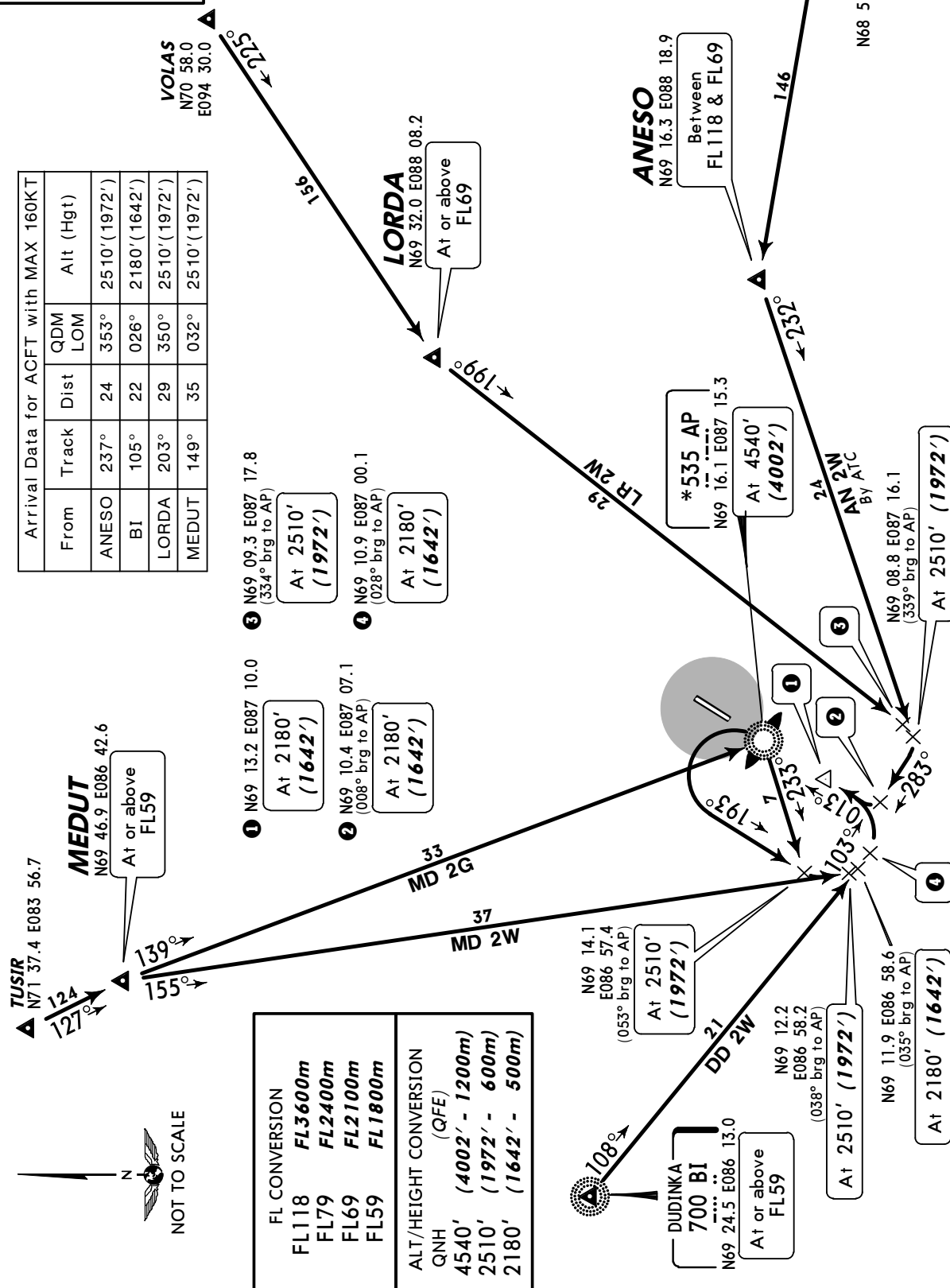
Alt set: MM (hPa on request) QNH on request **(QFE)**
 Trans level: FL59
 FL69 if pressure is less than 744 mm (991.9 hPa)
 and 717 mm (959.9 hPa) or above
 FL79 if pressure is less than 717 mm (955.9 hPa)
 Trans alt: 4540' **(4002')**



AN 2W, DD 2W, LR 2W, MD 2G, MD 2W
RWY 01 ARRIVALS
 FROM NORTH & 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')
BI	105°	22	026°	2180' (1642')
LORDA	203°	29	350°	2510' (1972')
MEDUT	149°	35	032°	2510' (1972')



U000/NSK
ALYKEL

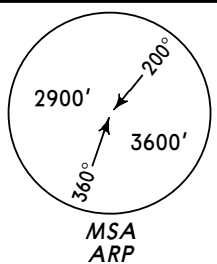
JEPPESEN
27 AUG 10 **(10-2B)**

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)
and 717 mm (959.9 hPa) or above
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 N69 26.5 E087 40.0
(207° brg to BF)
At 2220'
(1649')

② N69 23.8 E087 43.3
(229° brg to BF)
At 2540'
(1969')

ROLGA
N69 08.4 E086 21.5
At or above
FL69

TANAM
N68 01.6 E080 54.2

VAGIR
N67 18.0 E081 47.2

SUBOT
N69 00.9 E086 25.1
At or above
FL69

GINDA
N68 52.2 E087 09.7
At or above
FL69

OLURI
N68 52.8 E087 25.1
At or above
FL69

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' **(3969' - 1200m)**
2540' **(1969' - 600m)**
2220' **(1649' - 500m)**

NOT TO SCALE

U000/NSK
ALYKEL

JEPPESEN
27 AUG 10 (10-2C)

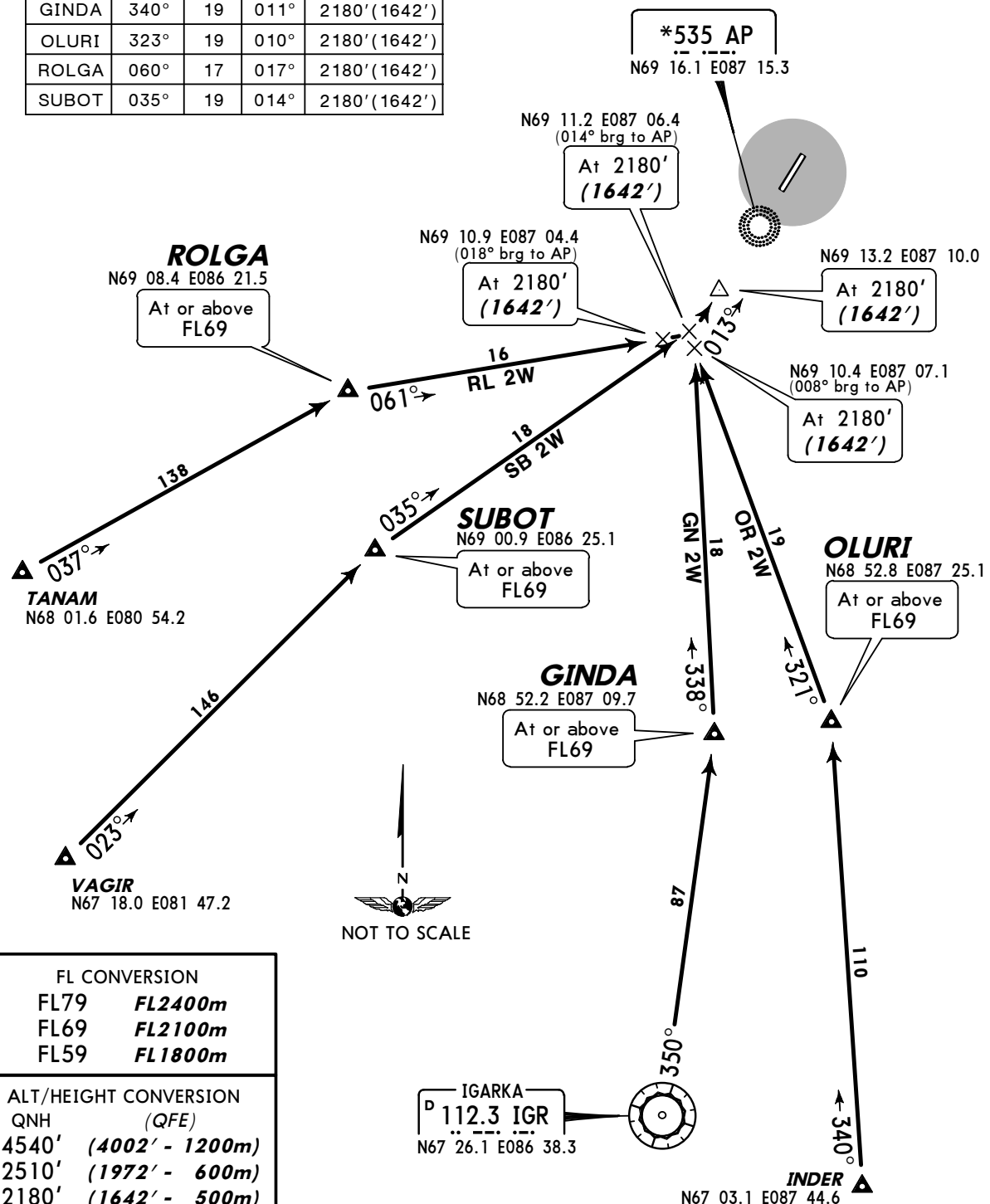
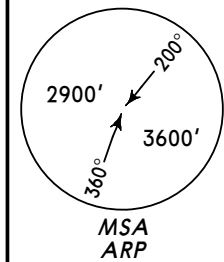
NORILSK, RUSSIA

*NORILSK Control (ASR) 132.5 124.0X	<i>Apt Elev</i> 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')
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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')



U000/NSK
ALYKEL

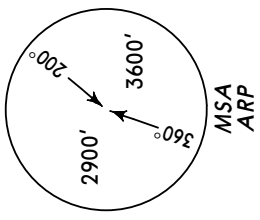
JEPPESEN
 27 AUG 10 **10-3**

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)
 and 717 mm (959.9 hPa) or above
 FL79 if pressure is less than 717 mm (955.9 hPa)
 Trans alt: 4540' (**3969'**)



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

FOR RUSSIAN USERS ONLY

These SIDs require minimum climb gradients of

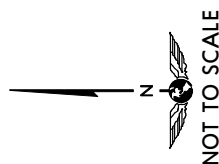
AN 1A: 219' per NM (3.6%) up to FL69 at ANESO.
DD 1A: 237' per NM (3.9%) up to FL59 at BI.

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.

TUSIR
 N71 37.4 E083 56.7
 124
 315°

MEDUT
 N69 46.9 E086 42.6
 At or above FL59



ALT/HEIGHT CONVERSION	
QNH	(QFE)
1230'	(659' - 200m)
3530'	(2959' - 900m)
4540'	(3969' - 1200m)
FL CONVERSION	
FL59	FL1800m
FL69	FL2100m
FL79	FL2400m
FL118	FL3600m

DUDINKA
 700 BI
 N69 24.5 E086 13.0
 At or above FL59

VOLAS
 N70 58.0 E094 30.0

LORDA
 N69 32.0 E088 08.2
 At or above FL69

ANESO
 N69 16.3 E088 18.9
 Between FL69 & FL118

BEKAL
 N68 51.7 E095 00.0

U000/NSK
ALYKEL

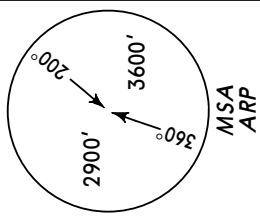
JEPPESEN
27 AUG 10 **(10-3A)**

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)
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.

TUSIR
N71 37.4 E083 56.7
124
315°

MEDUT
N69 46.9 E086 42.6

At or above
FL59

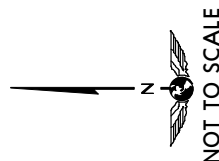
LORDA
N69 32.0 E088 08.2

At or above
FL69

ANESO
N69 16.3 E088 18.9

Between
FL69 & FL118

BEKAL
N68 51.7 E095 00.0



ALT/HEIGHT CONVERSION (QFE)	
1200'	(662' - 200m)
4540'	(4002' - 1200m)
FL CONVERSION	
FL59	FL1800m
FL69	FL2100m
FL79	FL2400m
FL118	FL3600m

DUDINKA
700 BI
N69 24.5 E086 13.0
At or above
FL59

***535 AP**
N69 16.1 E087 15.3

U000/NSK
ALYKEL

27 AUG 10 **JEPPESEN** 10-3B

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)
and 717 mm (959.9 hPa) or above

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

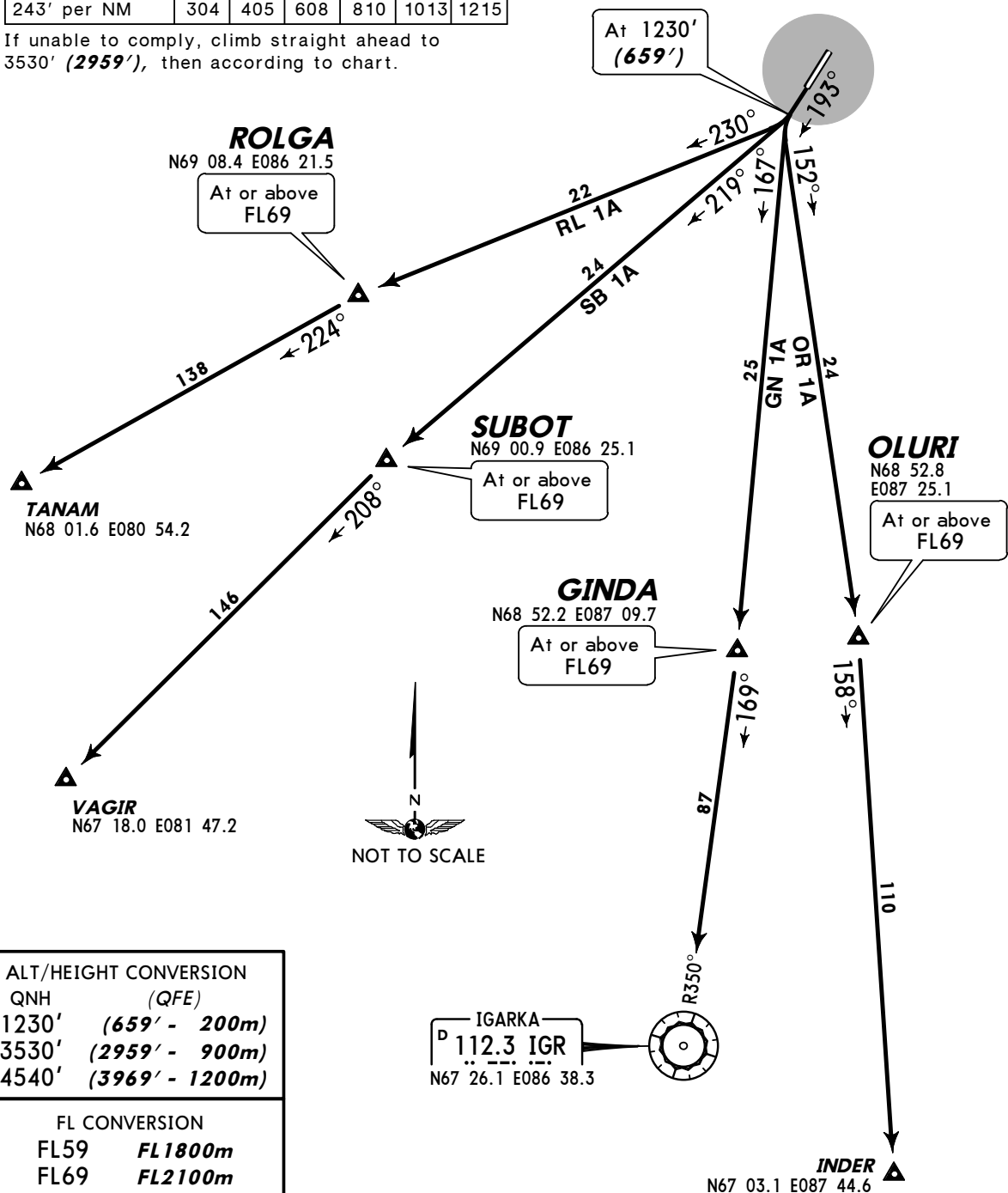
GN 1A, OR 1A, RL 1A, SB 1A
RWY 19 DEPARTURES
TO SOUTH

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.



U000/NSK
ALYKEL

JEPPESEN
27 AUG 10 **(10-3C)**

NORILSK, RUSSIA
SID

*NORILSK Control (ASR)
132.5 124.0X

Apt Elev
594'

QNH on request **(QFE)**

Trans level: FL59

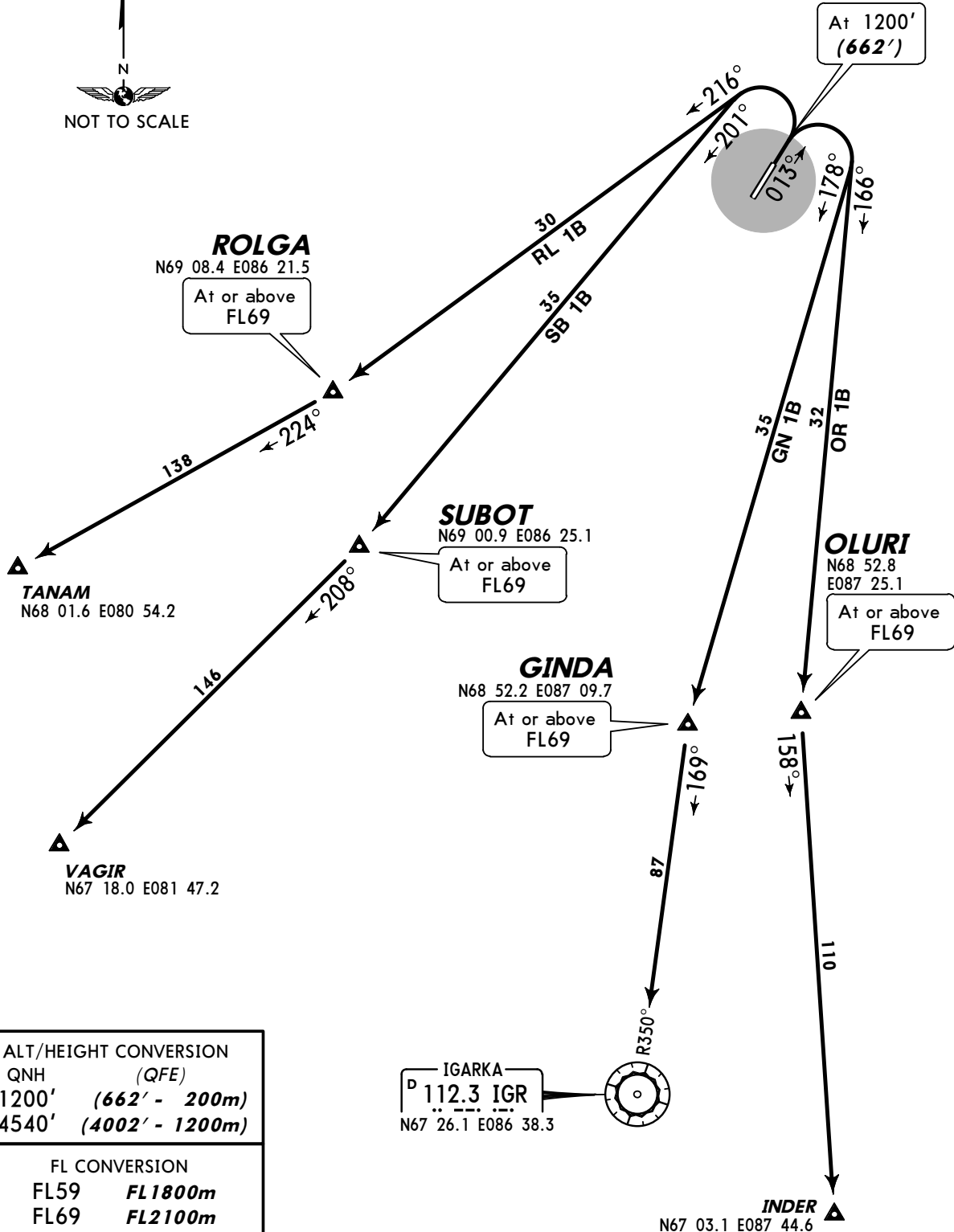
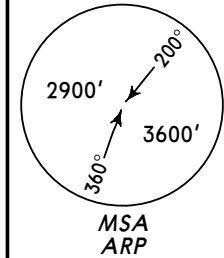
FL69 if pressure is less than 744 mm (991.9 hPa)
and 717 mm (959.9 hPa) or above

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**

IGARKA
D 112.3 IGR
N67 26.1 E086 38.3

U000/NSK

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

JEPPesen

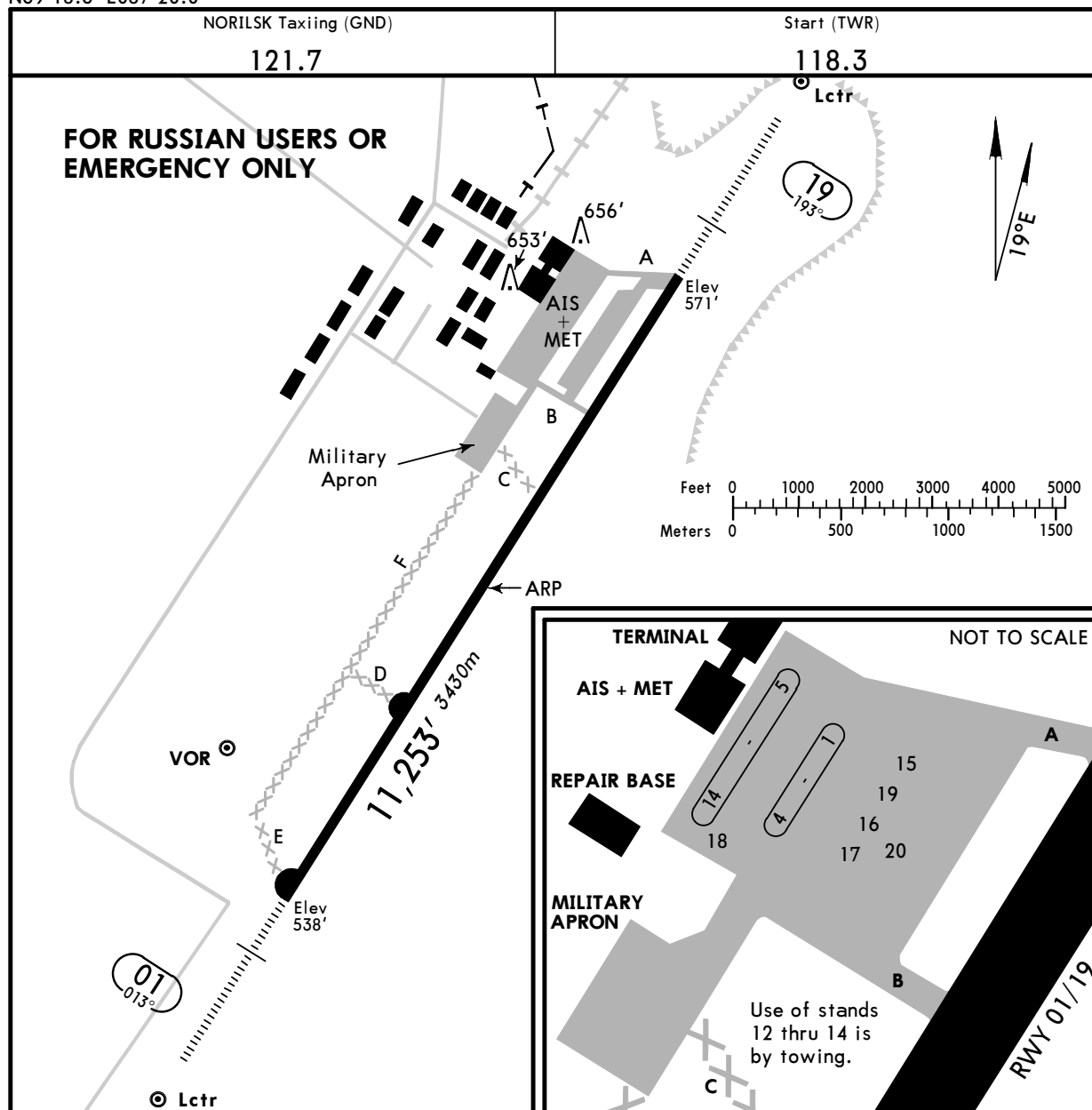
25 FEB 11

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

					USABLE LENGTHS			
RWY					LANDING BEYOND		TAKE-OFF	WIDTH
					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

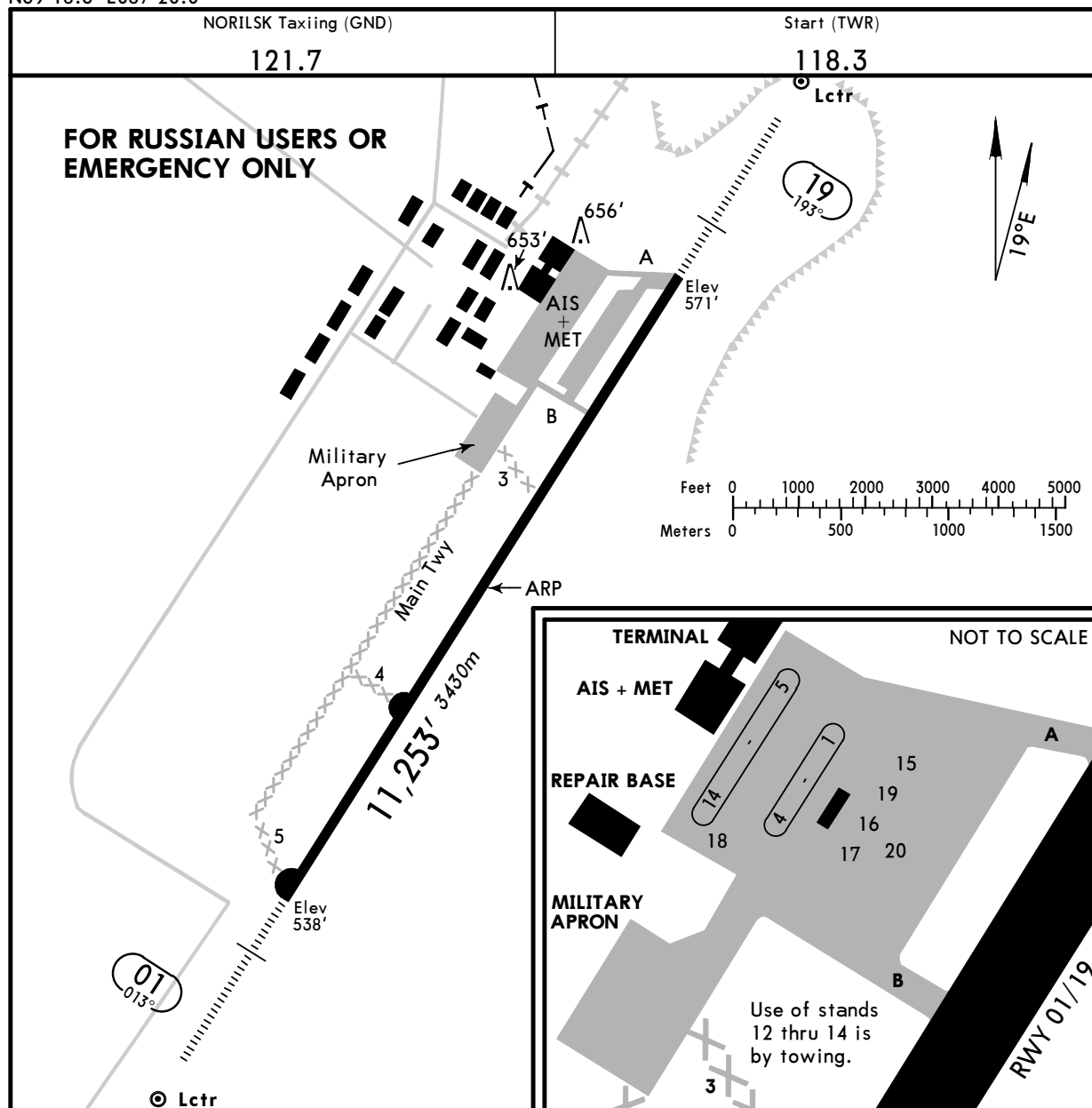
	LVP must be in force RCLM (DAY only) or RL	RCLM (DAY only) or RL
A		
B	250m	400m
C		
D	300m	

U000/NSK

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

JEPPesen
27 AUG 10 **(10-9)**

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.
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

				USABLE LENGTHS			
RWY				LANDING BEYOND		TAKE-OFF	WIDTH
				Threshold	Glide Slope		
01 ① 19	HIRL (60m)	HIALS	PAPI-L (angle 2.67°)		10,170' 3100m	10,925' 3330m ②	148' 45m
	HIRL (60m)	HIALS	TDZ PAPI-L (angle 2.67°)		10,072' 3070m		

① Rwy edge lights at a distance of 10'/3m from rwy edge.

Elevated rwy edge lights 3'/0.7m

② 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	

CHANGES: New airport.

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U000/NSK
ALYKEL

JEPPESSEN
27 AUG 10 **(11-1)**

NORILSK, RUSSIA
ILS or 2 NDB Rwy 01

BRIEFING STRIP

NORILSK Control (APP)

132.5

LOC IAP

109.5

NDB AP

535

Final Aptch Crs

013°

GS LOM

1194' (656')

Minimum Alt LOM

1200' (662')

ILS DA(H)

Refer to Minimums

NDB MDA(H)

Refer to Minimums

Apt Elev

594'

RWY

538'

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

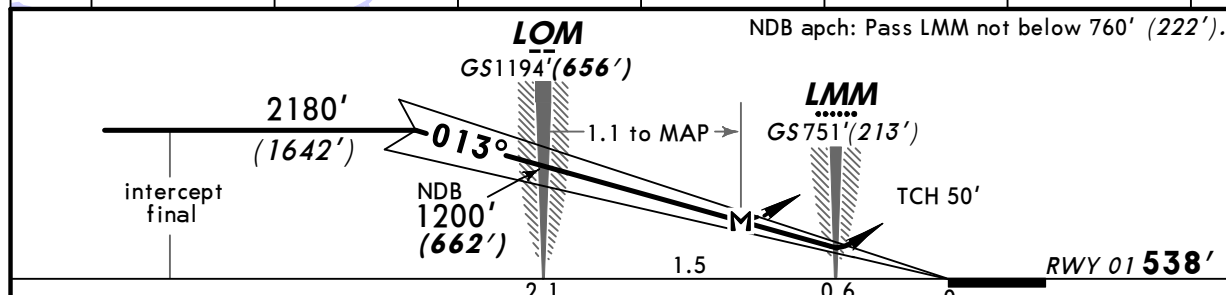
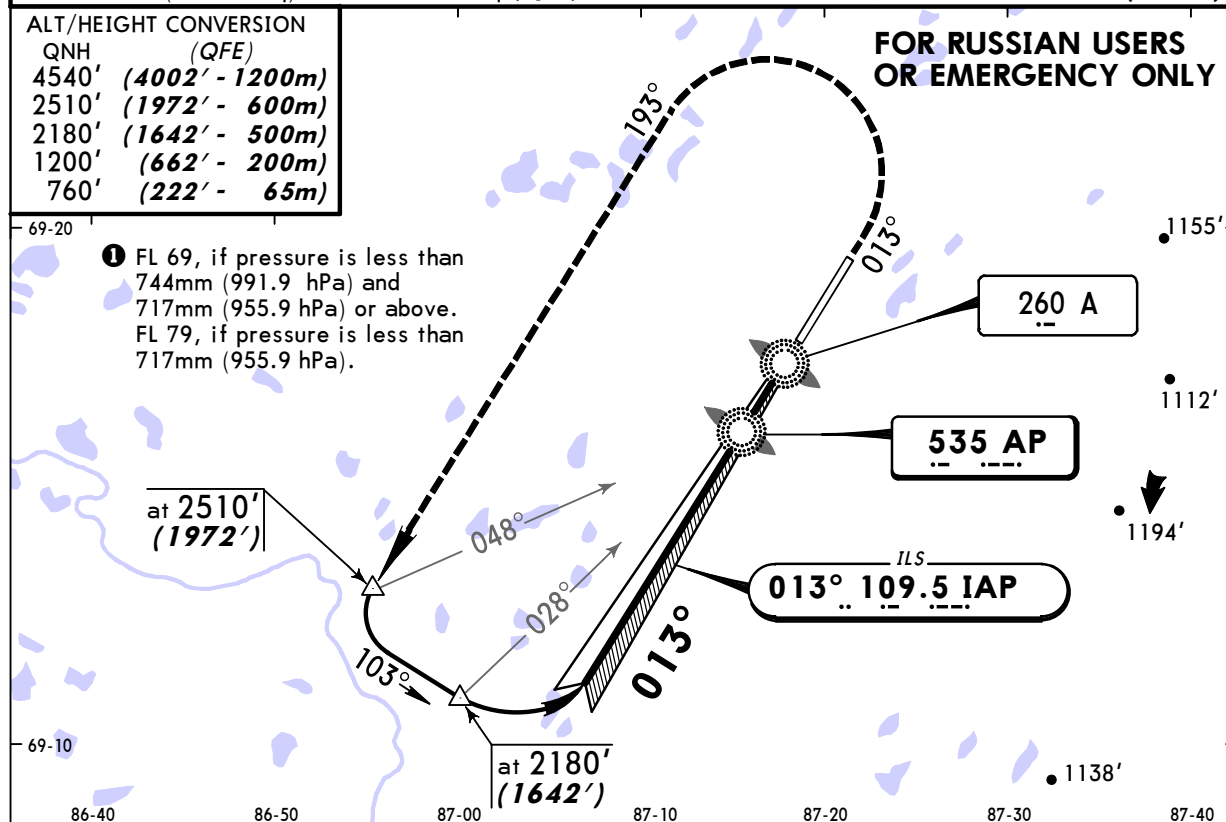
Trans alt: 4540' (4002')

Ground

121.7

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

- 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).



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1200' (662') on 013°	193° LT	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') CD: 768' (230')		LOC (GS out)		MDA(H) A: 840' (302') BCD: 870' (332')	
FULL	ALS out				ALS out
A					
B				1200m	
C	800m	1200m	NOT AUTHORIZED	1900m	
D				1600m	

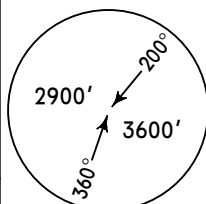
PANS OPS

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'		
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.						MSA ARP
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

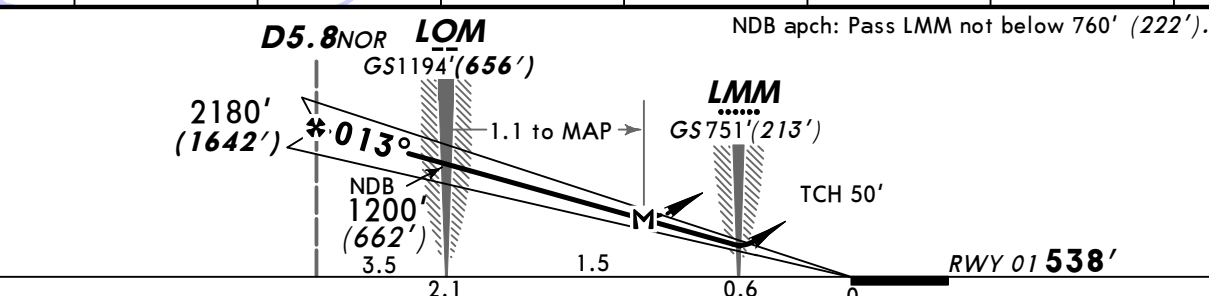
87-00

87-10

87-20

87-30

87-40



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	

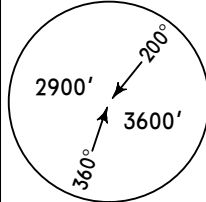
PANS OPS

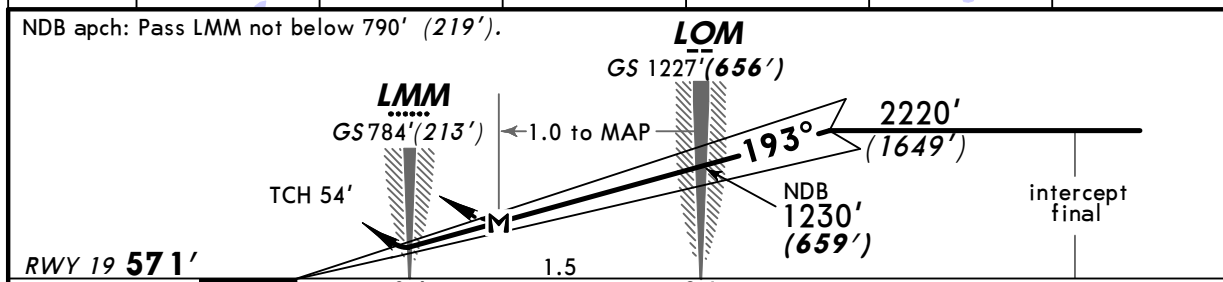
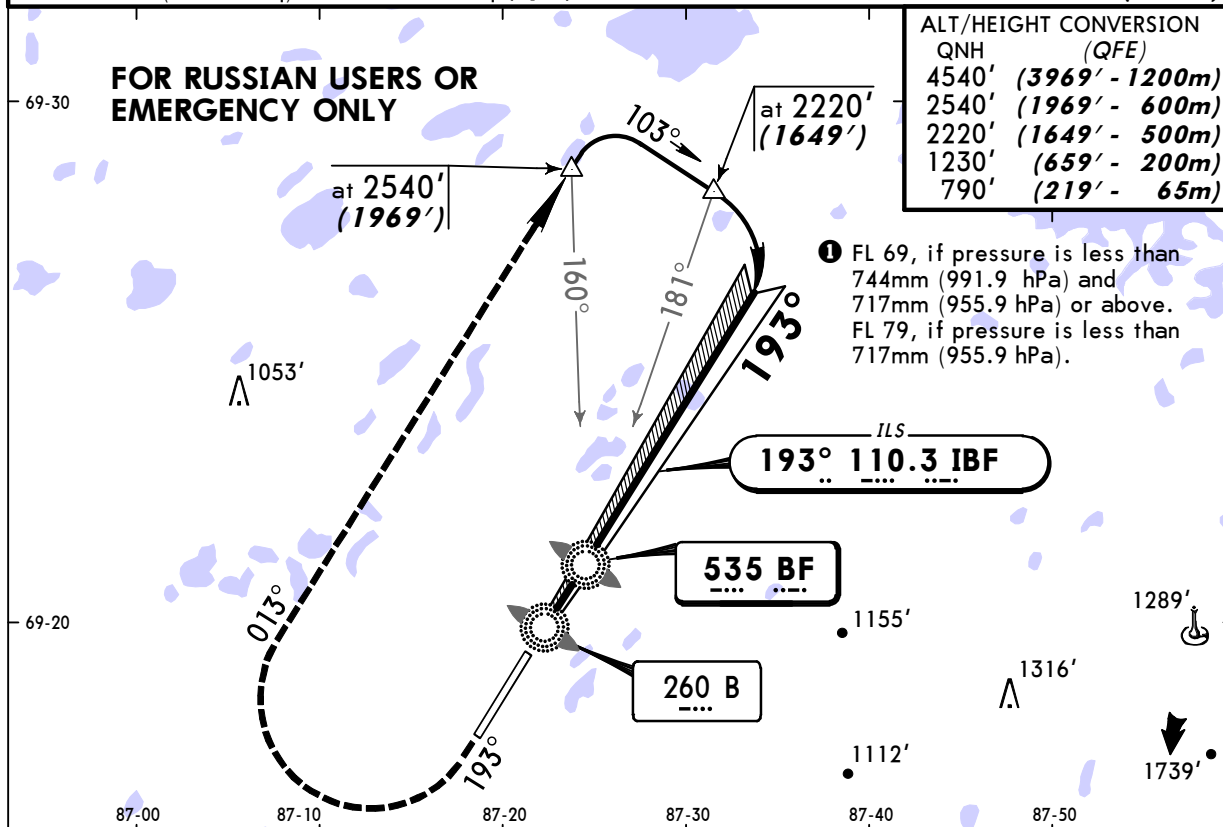
U000/NSK
ALYKEL

JEPPesen
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 Aptch Crs 193°	GS LOM 1227' (656')	ILS DA(H) Refer to Minimums	Apt Elev 594' RWY 571'			
NDB BF 535		Minimum Alt LOM 1230' (659')	NDB MDA(H) 920' (349')				
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')



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					
C	800m	NOT AUTHORIZED		1200m	1900m
D	1200m			1600m	2000m

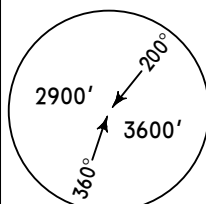
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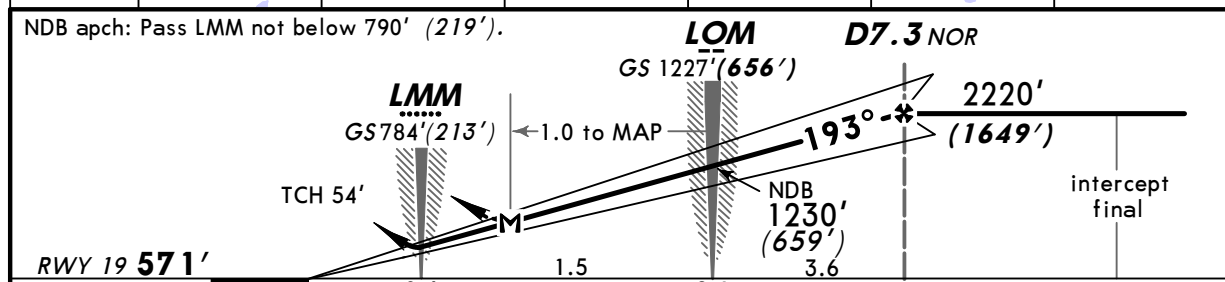
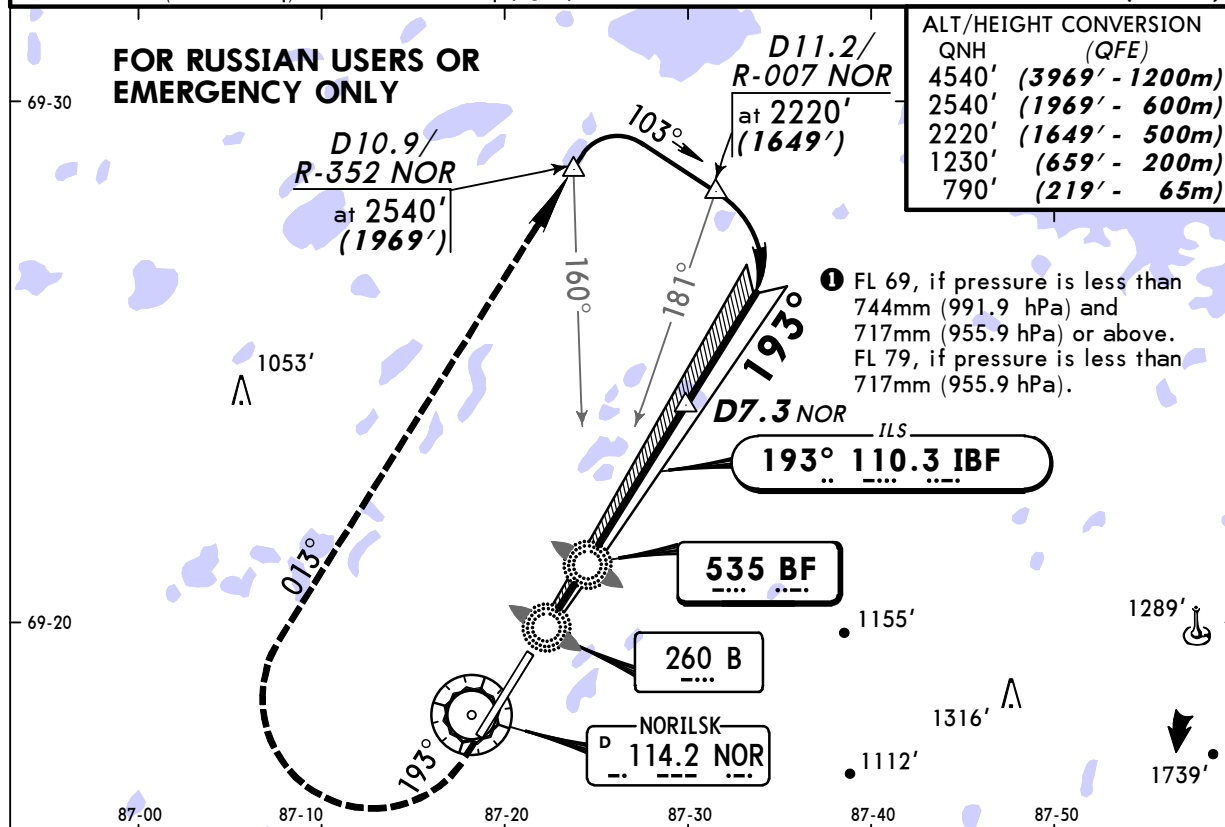
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JEPPesen
25 FEB 11 **11-2** Eff 10 Mar

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' RWY 571'		
NDB BF 535		Minimum Alt D7.3 NOR 2220' (1649')	NDB MDA(H) 920' (349')			
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')



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					
C	800m	NOT AUTHORIZED		1200m	1900m
D	1200m			1600m	2000m

PANS OPS