

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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Yaroslavl, (Tunoshna - UUDL)

DEL	BADAK, OKAMI, POGET & VAR...	10-2	25 ôââ 2011	10 ìàď 2011
ADD	MAGOK & OGNAR 2 ARRS	10-2	25 ôââ 2011	10 ìàď 2011
DEL	BADAK, OKAMI, POGET & VAR...	10-2A	25 ôââ 2011	10 ìàď 2011
ADD	MAGOK 4A, OGNAR 4A & 4B AR...	10-2A	25 ôââ 2011	10 ìàď 2011
ADD	BADAK & VAREG 2 ARRS	10-2B	25 ôââ 2011	10 ìàď 2011
ADD	BADAK & VAREG 4A ARRS	10-2C	25 ôââ 2011	10 ìàď 2011
ADD	BADAK, LIRBA, MAGOK, MALAP...	10-3	25 ôââ 2011	10 ìàď 2011
DEL	BADAK, OKAMI, POGET & VAR...	10-3	25 ôââ 2011	10 ìàď 2011
ADD	BADAK, LIRBA, MAGOK, MALAP...	10-3A	25 ôââ 2011	10 ìàď 2011
DEL	BADAK, OKAMI, POGET & VAR...	10-3A	25 ôââ 2011	10 ìàď 2011

TERMINAL CHART NOTAMs

No Chart NOTAMs for Airport UUDL

UUDL (Tunoshna)**General Info**

Yaroslavl, RUS

N 57° 33.6' E 40° 09.4' Mag Var: 10.2°E

Elevation: 305'

Public, IFR, Customs availble on a restrcted basis, Landing Fee

Fuel: Jet A-1

Repairs: Minor Airframe, Minor Engine

Time Zone Info: GMT+3:00 uses DST

Runway Info

Runway 05-23 9843' x 144' asphalt

Runway 05 (53.0°M) TDZE 286'

Lights: Edge, ALS

Runway 23 (233.0°M) TDZE 301'

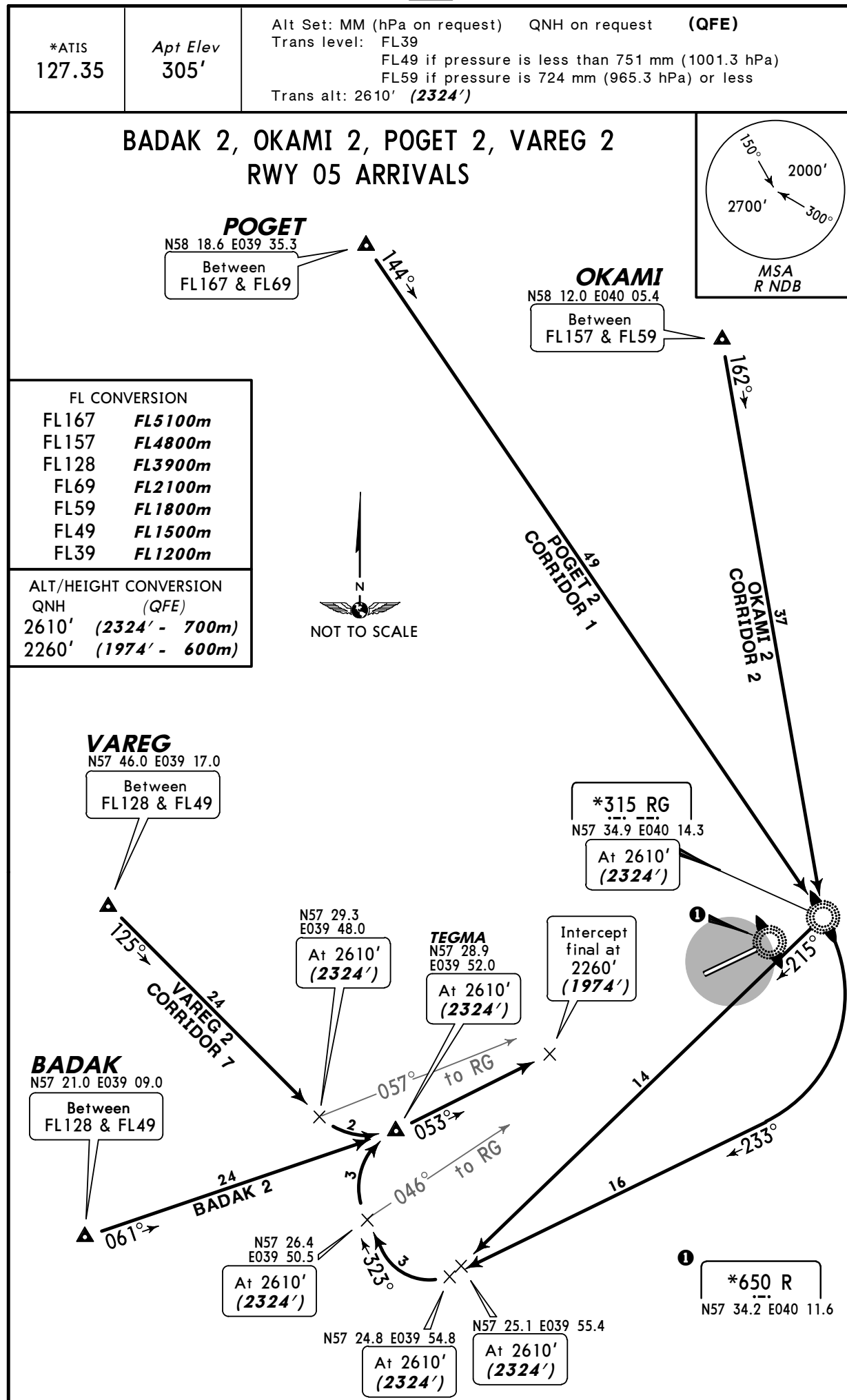
Lights: Edge, ALS

Communications InfoATIS **127.35**Yaroslavl Approach Control **120.3** MF Air-Ground**Notebook Info**

UUDL/IAR
TUNOSHNA

JEPPESEN
20 NOV 09 **10-2**

YAROSLAVL, RUSSIA
STAR



UUDL/IAR
TUNOSHNA

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

YAROSLAVL, RUSSIA

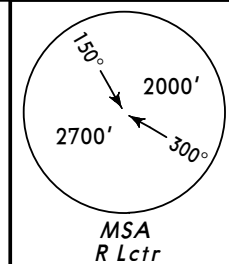
STAR

*ATIS
127.35

Apt Elev
305'

Alt Set: MM (hPa on request) QNH on request **(QFE)**
Trans level: FL39
FL49 if pressure is less than 751 mm (1001.3 hPa)
FL59 if pressure is less than 724 mm (965.3 hPa)
Trans alt: 2610' **(2324')**

MAGOK 2, OGNAR 2
RWY 05 ARRIVALS
FROM NORTH



MAGOK
N58 02.6 E039 47.6

Between
FL98 & FL49

OGNAR
N58 00.3 E040 25.0
Between
FL98 & FL59

OLUGA
N58 02.6
E040 36.4

142°

181°

237°

MAGOK 2
CORRIDOR 1

OGNAR 2
CORRIDOR 3



***650 R**
N57 34.2 E040 11.6

(FAF)
N57 30.6 E039 58.1
At 2260'
(1974')

TEGMA
N57 28.9 E039 52.0
At 2610'
(2324')

***315 RG**
N57 34.9 E040 14.3
At 2610'
(2324')

Direct distance to Tunoshna from:
FAF **7 NM**

N57 26.4 E039 50.5
At 2610'
(2324')

N57 24.8 E039 54.8
At 2610'
(2324')

N57 25.1 E039 55.4
At 2610'
(2324')

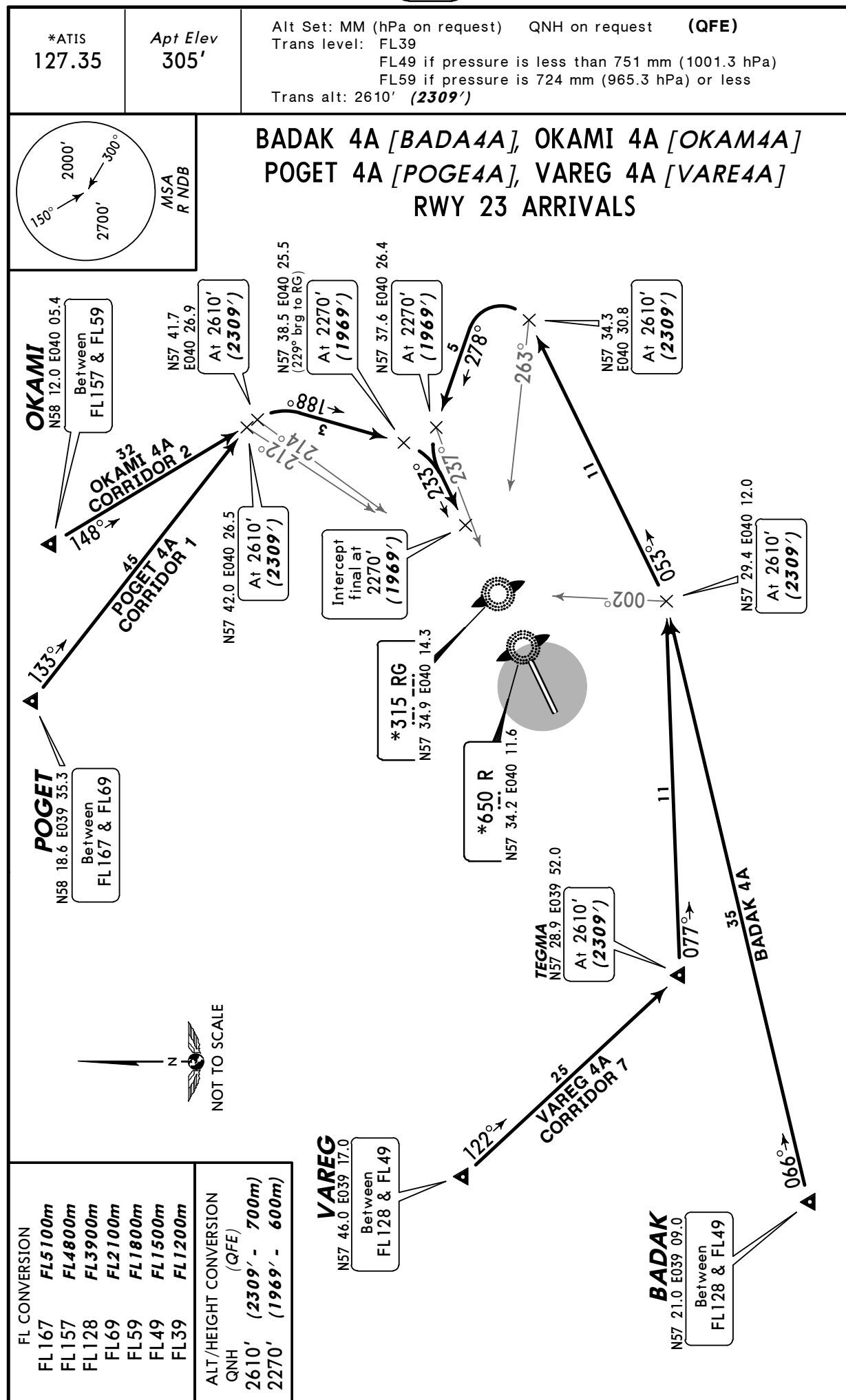
FL CONVERSION
FL98 **FL3000m**
FL59 **FL1800m**
FL49 **FL1500m**
FL39 **FL1200m**

ALT/HEIGHT CONVERSION
QNH **(QFE)**
2610' **(2324' - 700m)**
2260' **(1974' - 600m)**

UUDL/IAR
TUNOSHNA

JEPPESSEN
20 NOV 09 **(10-2A)**

YAROSLAVL, RUSSIA
STAR



UUDL/IAR
TUNOSHNA

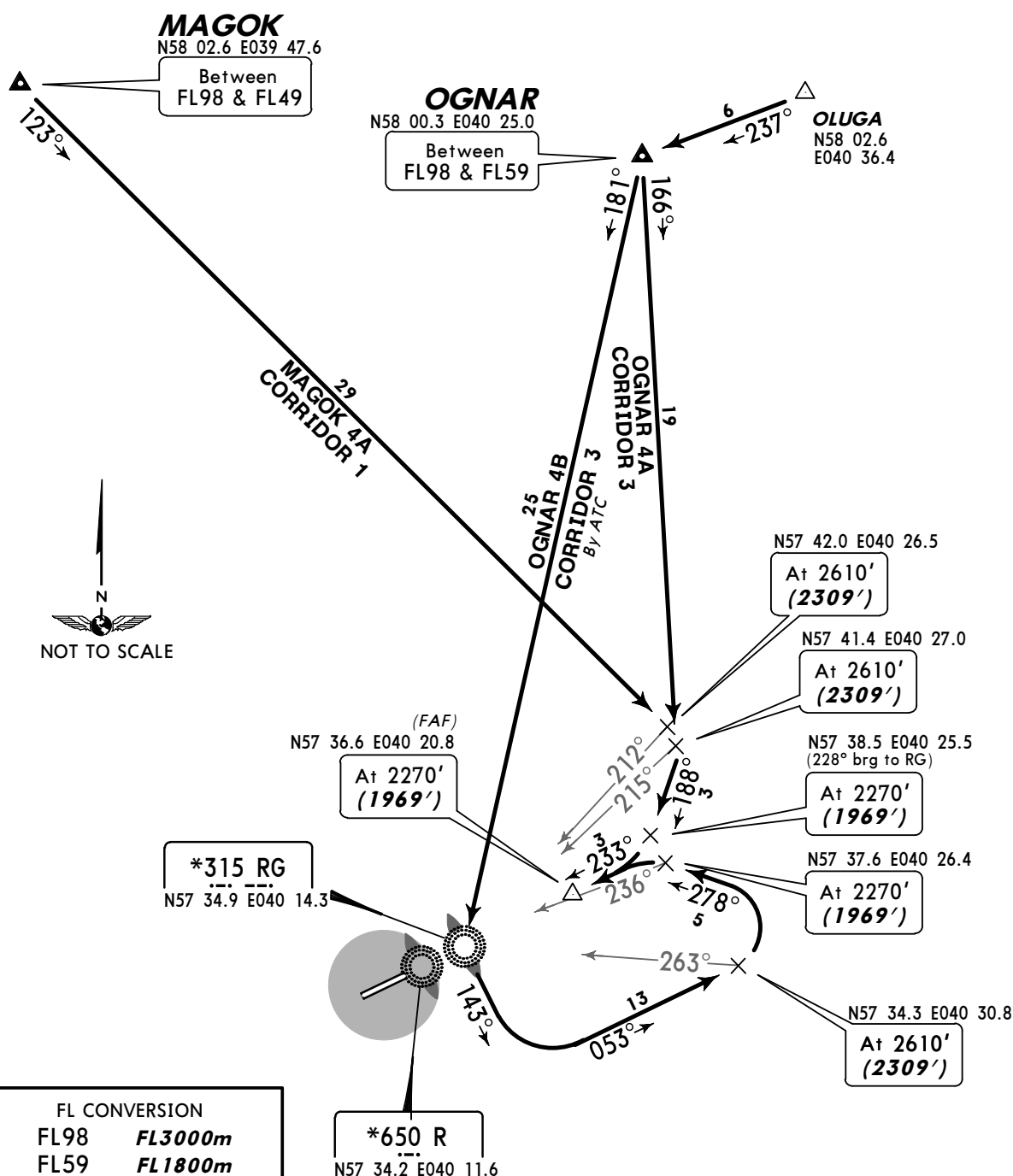
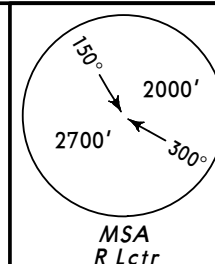
JEPPESEN
25 FEB 11 **10-2A** **Eff 10 Mar**

YAROSLAVL, RUSSIA

STAR

*ATIS 127.35	<i>Apt Elev</i> 305'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL39 FL49 if pressure is less than 751 mm (1001.3 hPa) FL59 if pressure is less than 724 mm (965.3 hPa) Trans alt: 2610' (2309')
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MAGOK 4A [MAGO4A]
OGNAR 4A [OGNA4A], OGNAR 4B [OGNA4B]
RWY 23 ARRIVALS
FROM NORTH



FL CONVERSION

FL98	<i>FL3000m</i>
FL59	<i>FL1800m</i>
FL49	<i>FL1500m</i>
FL39	<i>FL1200m</i>

ALT/HEIGHT CONVERSION
QNH (QFE)

2610'	(2309' - 700m)
2270'	(1969' - 600m)

Direct distance to Tunoshna from:
FAF **7 NM**

UUDL/IAR
TUNOSHNA

JEPPESSEN
25 FEB 11 **10-2B** **Eff 10 Mar**

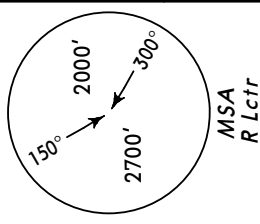
YAROSLAVL, RUSSIA

STAR

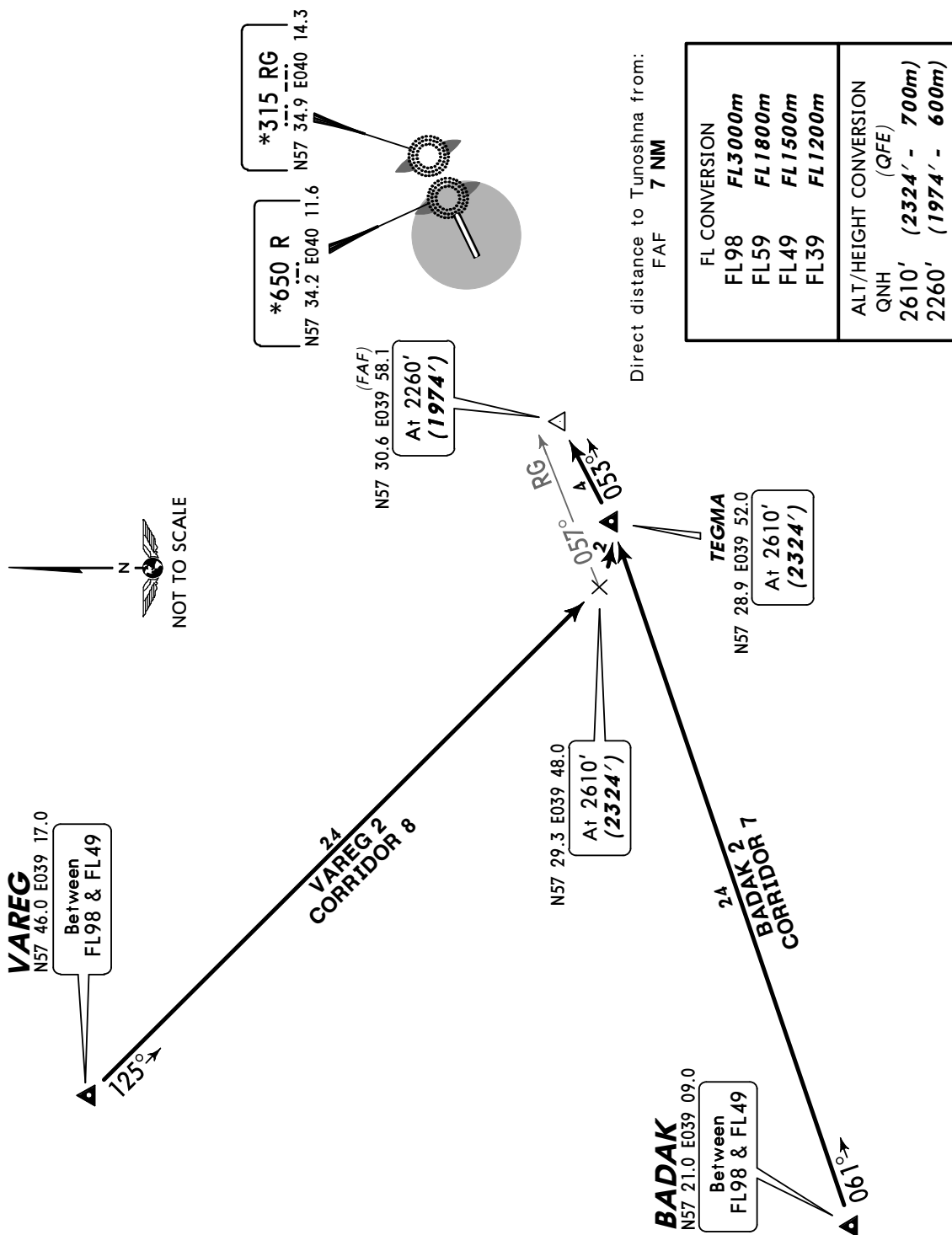
*ATIS
127.35

Apt Elev
305'

Alt Set: MM (hPa on request) QNH on request **(QFE)**
Trans level: FL39
FL49 if pressure is less than 751 mm (1001.3 hPa)
FL59 if pressure is less than 724 mm (965.3 hPa)
Trans alt: 2610' **(2324')**



BADAK 2, VAREG 2
RWY 05 ARRIVALS
FROM WEST



**UUDL/IAR
TUNOSHNA**

JEPPESSEN
25 FEB 11 **10-2C** **Eff 10 Mar**

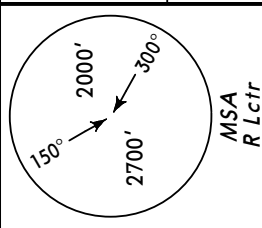
YAROSLAVL, RUSSIA

STAR

*ATIS
127.35

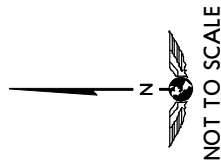
Apt Elev
305'

Alt Set: MM (hPa on request) QNH on request **(QFE)**
Trans level: FL39
 FL49 if pressure is less than 751 mm (1001.3 hPa)
 FL59 if pressure is less than 724 mm (965.3 hPa)
Trans alt: 2610' **(2309')**

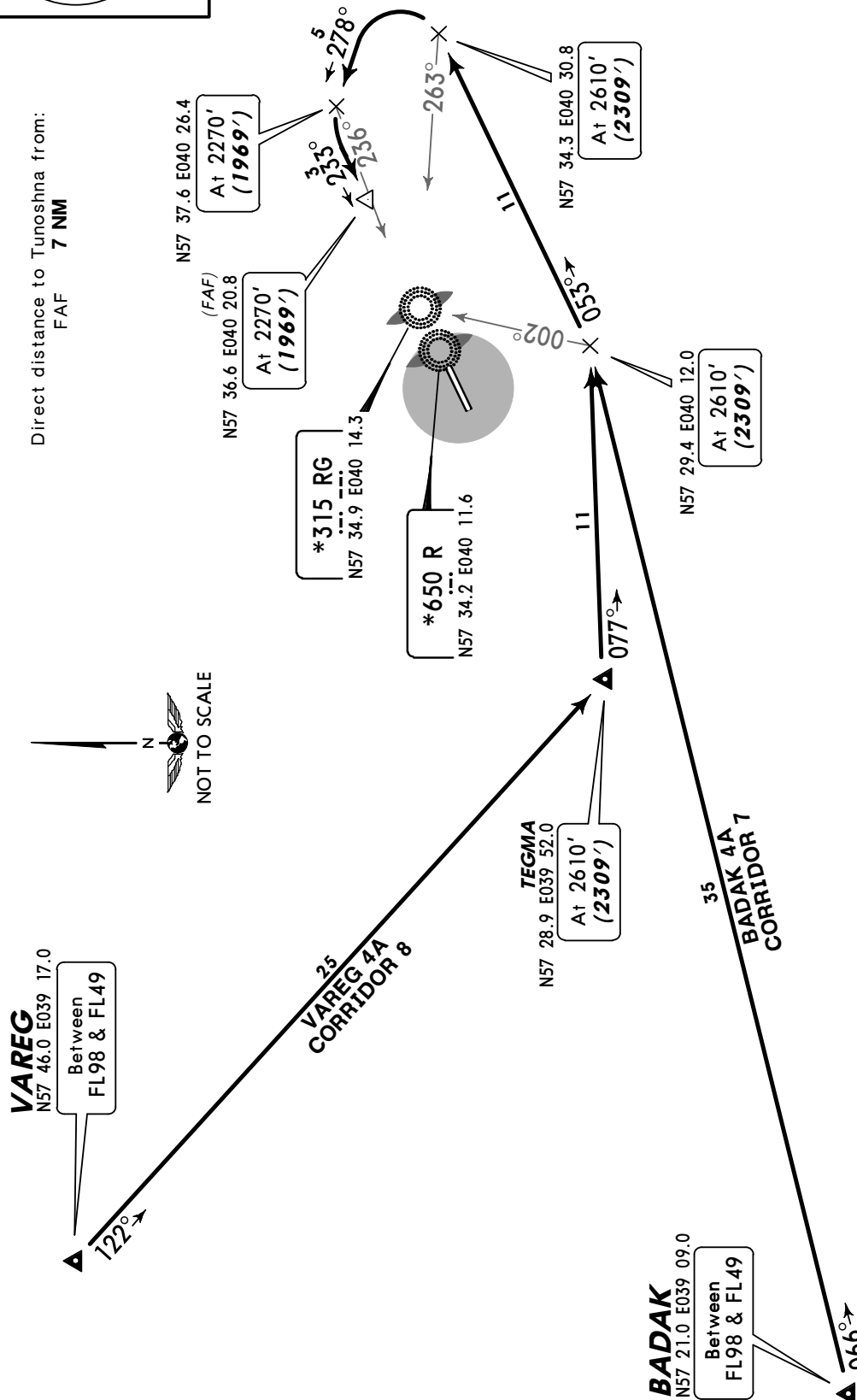


**BADAK 4A [BADA4A]
VAREG 4A [VARE4A]
RWY 23 ARRIVALS
FROM WEST**

Direct distance to Tunoshna from:
FAF **7 NM**



NOT TO SCALE



FL CONVERSION

FL98 **FL3000m**
FL59 **FL1800m**
FL49 **FL1500m**
FL39 **FL1200m**

ALT/HEIGHT CONVERSION

QNH	(QFE)
22610'	(2309' - 700m)
22270'	(1969' - 600m)

UUDL/IAR
TUNOSHNA

JEPPESSEN
25 FEB 11 **10-3** Eff 10 Mar

YAROSLAVL, RUSSIA

STAR

Apt Elev
305'

QNH on request **(QFE)**

Trans level: FL39

FL49 if pressure is less than 751 mm (1001.3 hPa)

FL59 if pressure is less than 724 mm (965.3 hPa)

Trans alt: 2610' **(2324')**

Flights over the city of Yaroslavl below FL98 are prohibited.

ALT/HEIGHT CONVERSION

QNH **(QFE)**

1280' **(994' - 300m)**

2610' **(2324' - 700m)**

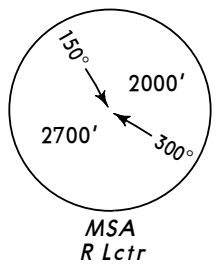
FL CONVERSION

FL39 **FL1200m**

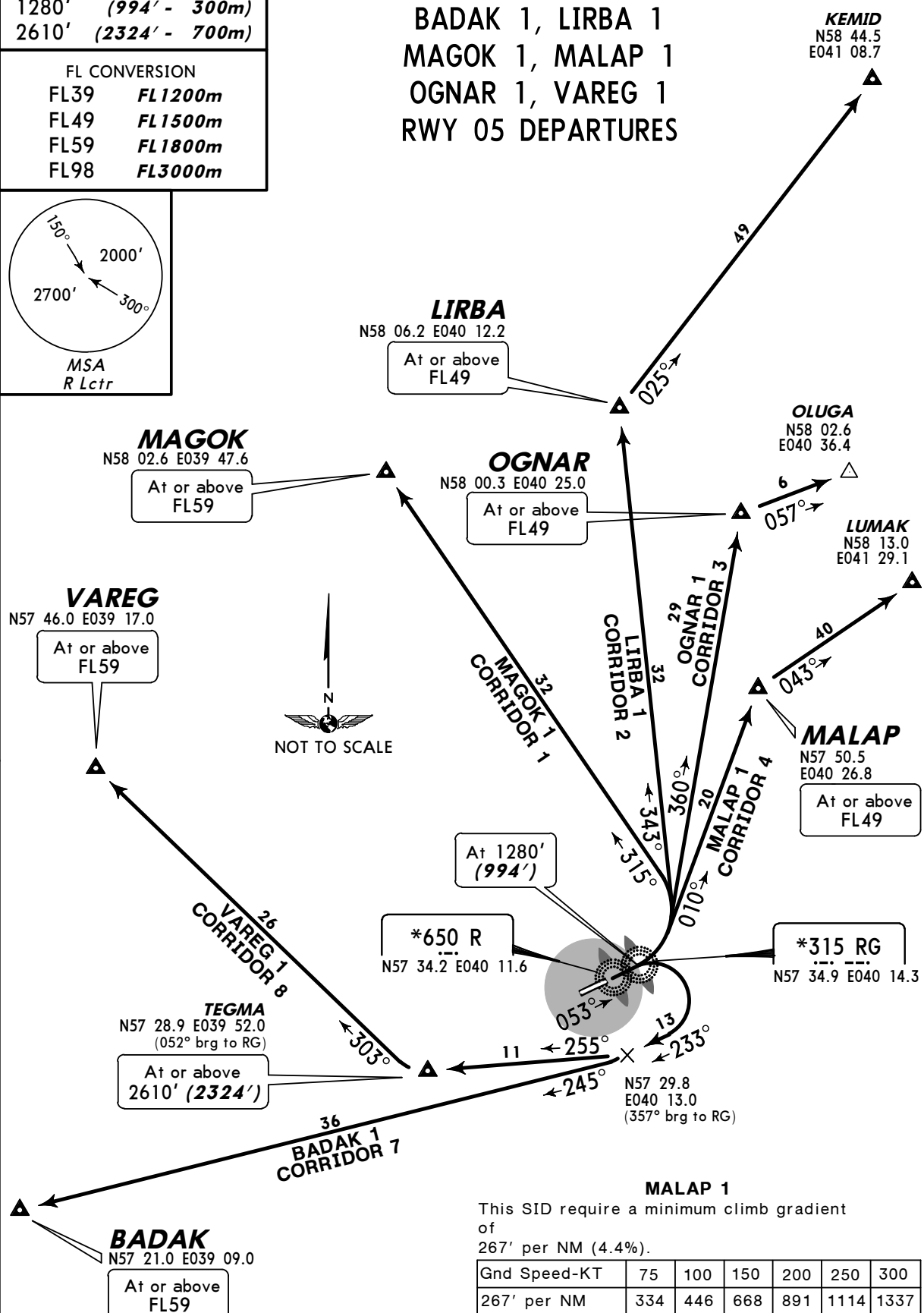
FL49 **FL1500m**

FL59 **FL1800m**

FL98 **FL3000m**



BADAK 1, LIRBA 1
MAGOK 1, MALAP 1
OGNAR 1, VAREG 1
RWY 05 DEPARTURES



UUDL/IAR
TUNOSHNA

JEPPESEN
20 NOV 09 **10-3**

YAROSLAVL, RUSSIA
SID

Apt Elev
305'

QNH on request **(QFE)**

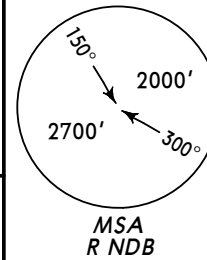
Trans level: FL39

FL49 if pressure is less than 751 mm (1001.3 hPa)

FL59 if pressure is 724 mm (965.3 hPa) or less

Trans alt: 2610' **(2324')**

Flights over the city of Yaroslavl below FL98 are prohibited.



BADAK 1, OKAMI 1, POGET 1, VAREG 1
RWY 05 DEPARTURES

POGET
N58 18.6 E039 35.3
At or above
FL59

OKAMI
N58 12.0 E040 05.4
At or above
FL49

ALT/HEIGHT CONVERSION
QNH **(QFE)**
1280' **(994' - 300m)**
2610' **(2324' - 700m)**

FL CONVERSION
FL39 **FL1200m**
FL49 **FL1500m**
FL59 **FL1800m**
FL98 **FL3000m**



VAREG
N57 46.0 E039 17.0
At or above
FL59

***315 RG**
N57 34.9 E040 14.3

At 1280'
(994')

TEGMA
N57 28.9 E039 52.0
At or above
2610' **(2324')**

BADAK
N57 21.0 E039 09.0
At or above
FL59

VAREG 1
N57 29.8 E040 13.0

***650 R**
N57 34.2 E040 11.6

UUDL/IAR
TUNOSHNA

JEPPesen
25 FEB 11 **(10-3A)** Eff 10 Mar

YAROSLAVL, RUSSIA
STAR

Apt Elev
305'

QNH on request **(QFE)**

Trans level: FL39

FL49 if pressure is less than 751 mm (1001.3 hPa)

FL59 if pressure is less than 724 mm (965.3 hPa)

Trans alt: 2610' **(2309')**

Flights over the city of Yaroslavl below FL98 are prohibited.

ALT/HEIGHT CONVERSION

QNH **(QFE)**

1290' **(989' - 300m)**

2610' **(2309' - 700m)**

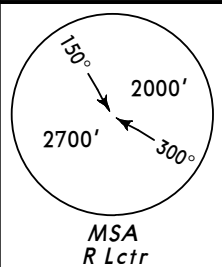
FL CONVERSION

FL39 **FL1200m**

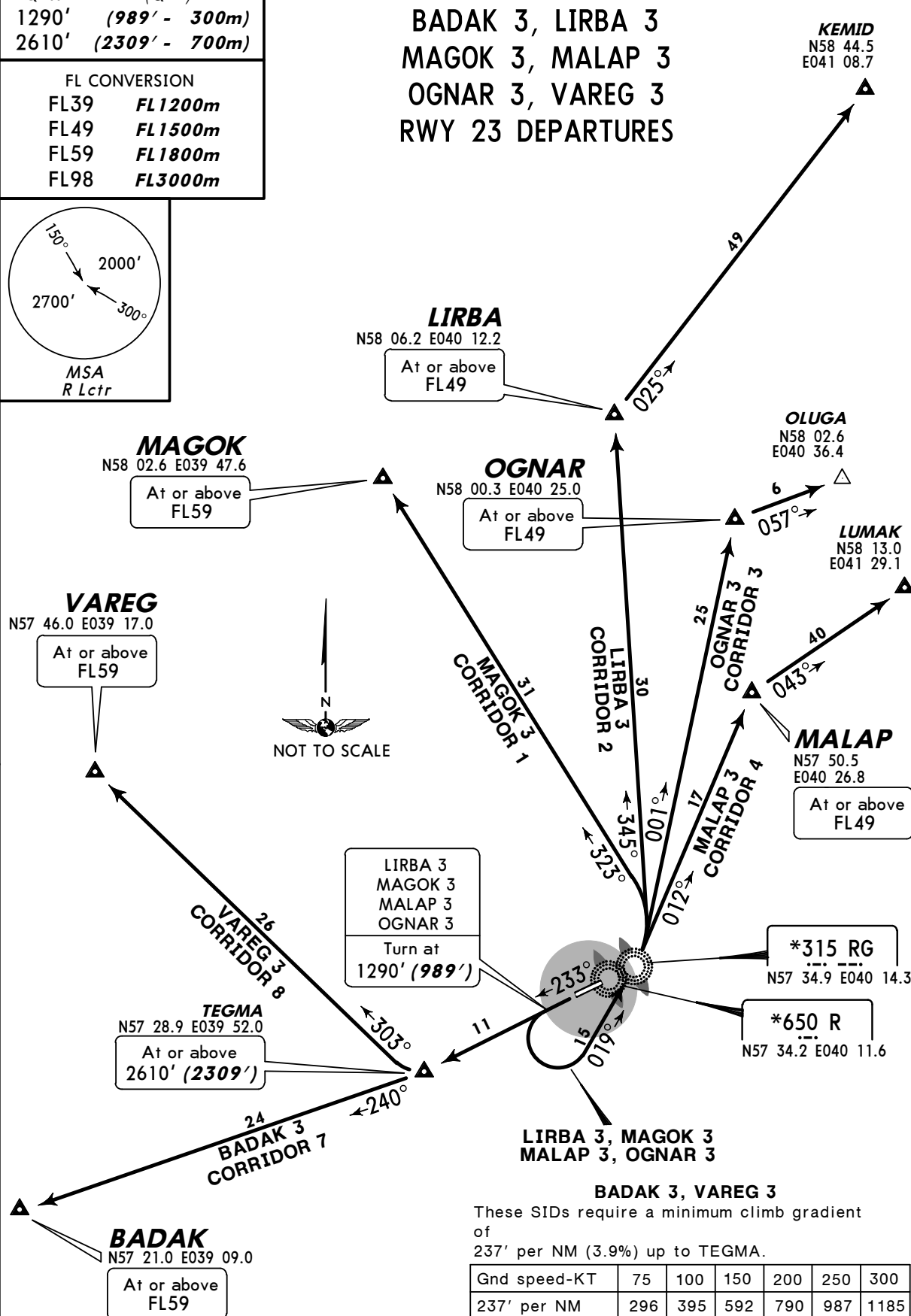
FL49 **FL1500m**

FL59 **FL1800m**

FL98 **FL3000m**



BADAK 3, LIRBA 3
MAGOK 3, MALAP 3
OGNAR 3, VAREG 3
RWY 23 DEPARTURES



BADAK 3, VAREG 3
These SIDs require a minimum climb gradient of 237' per NM (3.9%) up to TEGMA.

Gnd speed-KT	75	100	150	200	250	300
237' per NM	296	395	592	790	987	1185

If unable to comply inform ATC.

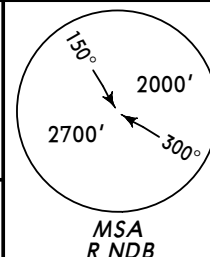
UUDL/IAR
TUNOSHNA

JEPPESEN
20 NOV 09 **(10-3A)**

YAROSLAVL, RUSSIA
SID

Apt Elev
305'

QNH on request **(QFE)**
Trans level: FL39
FL49 if pressure is less than 751 mm (1001.3 hPa)
FL59 if pressure is 724 mm (965.3 hPa) or less
Trans alt: 2610' **(2309')**
Flights over the city of Yaroslavl below FL98 are prohibited.



BADAK 3, OKAMI 3, POGET 3, VAREG 3
RWY 23 DEPARTURES

ALT/HEIGHT CONVERSION
QNH **(QFE)**
1290' **(989' - 300m)**
2610' **(2309' - 700m)**

FL CONVERSION
FL39 **FL1200m**
FL49 **FL1500m**
FL59 **FL1800m**
FL98 **FL3000m**



POGET
N58 18.6 E039 35.3
At or above
FL59

OKAMI
N58 12.0 E040 05.4
At or above
FL49

***650 R**
N57 34.2 E040 11.6

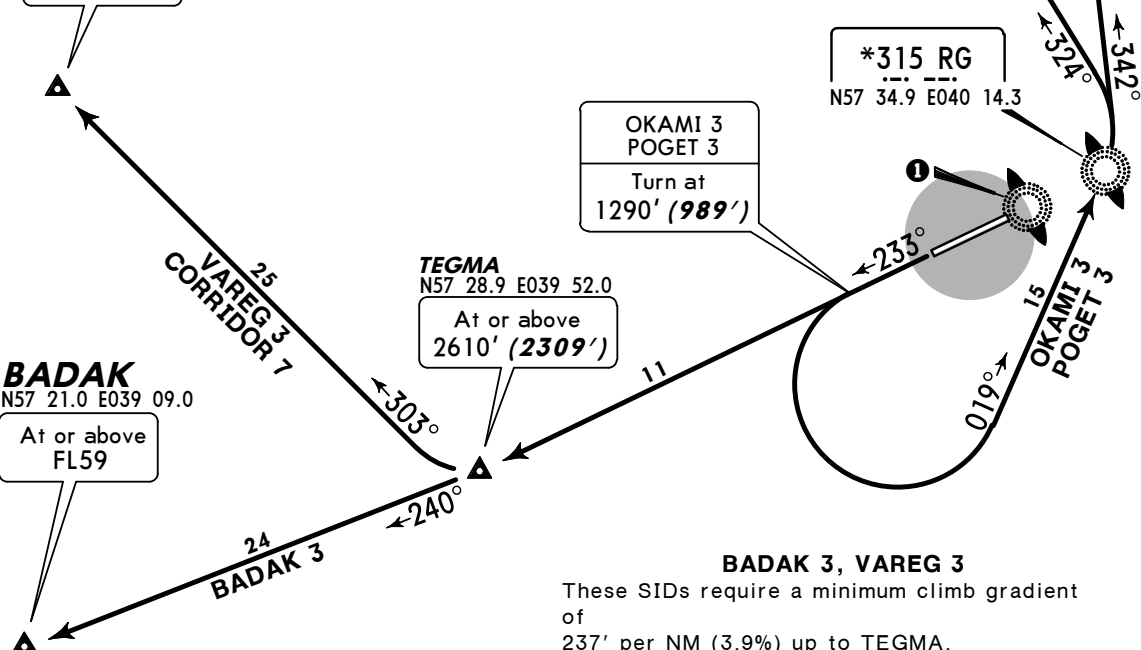
VAREG
N57 46.0 E039 17.0
At or above
FL59

BADAK
N57 21.0 E039 09.0
At or above
FL59

TEGMA
N57 28.9 E039 52.0
At or above
2610' **(2309')**

OKAMI 3
POGET 3
Turn at
1290' **(989')**

***315 RG**
N57 34.9 E040 14.3



BADAK 3, VAREG 3

These SIDs require a minimum climb gradient of 237' per NM (3.9%) up to TEGMA.

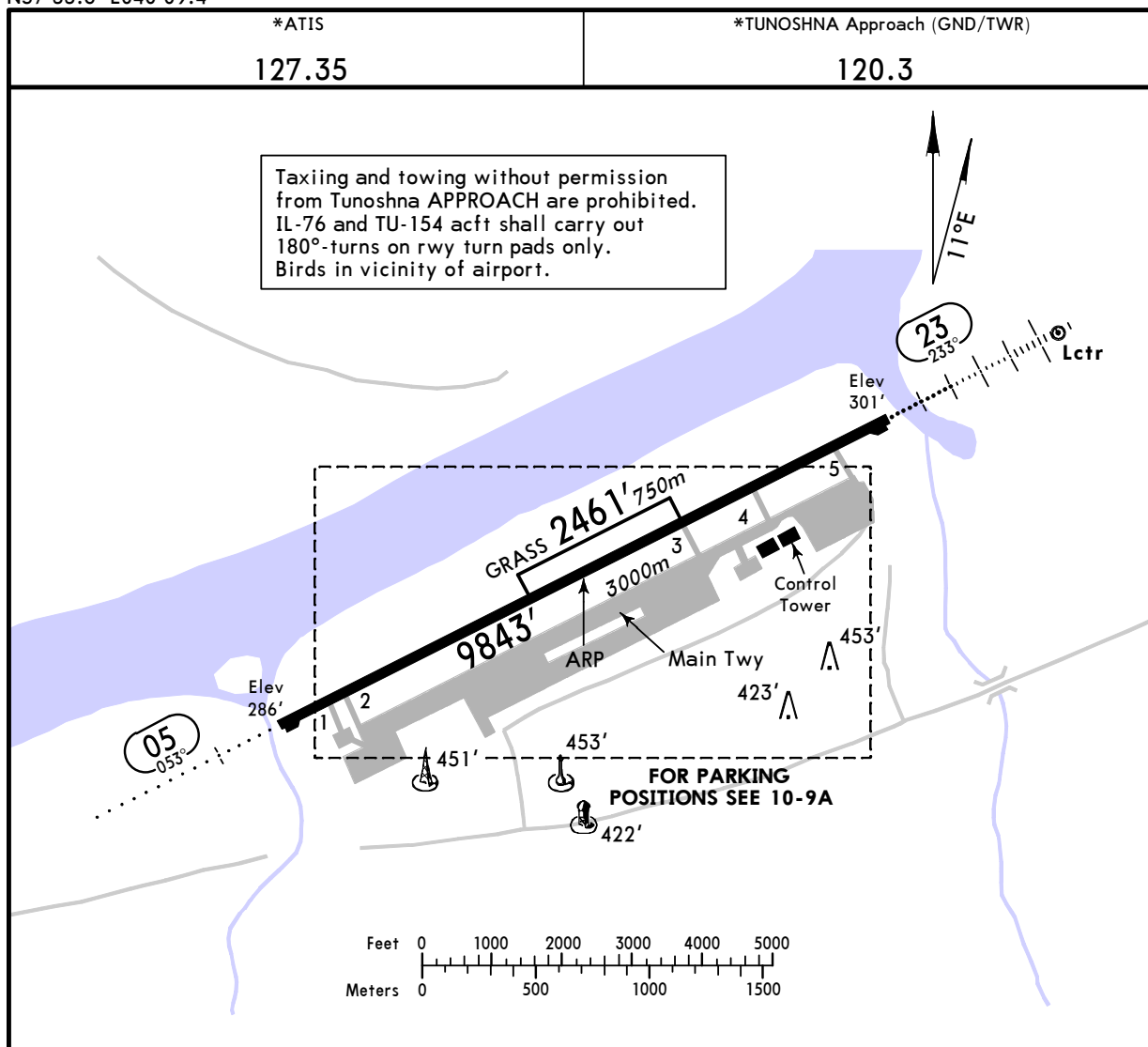
Gnd speed-KT	75	100	150	200	250	300
237' per NM	296	395	592	790	987	1185

If unable to comply inform ATC.

UUDL/IAR
Apt Elev **305'**
N57 33.6 E040 09.4

JEPPESSEN
2 JAN 09 **(10-9)** **Eff 15 Jan**

YAROSLAVL, RUSSIA
TUNOSHNA



ADDITIONAL RUNWAY INFORMATION							
RWY					USABLE LENGTHS		WIDTH
					LANDING BEYOND	TAKE-OFF	
					Threshold	Glide Slope	
05	RL (60m)	ALS	PAPI-L (angle 3.0°)	RVR			144'
23	RL (60m)	HIALS	PAPI-L (angle 3.0°)	RVR		8859' 2700m	44m
05 ① 23	Grass runway						328'
							100m

① Available in winter only.

TAKE-OFF	
AIR CARRIER (JAA)	
All Rwys	
A	LVP must be in force RCLM (DAY only) or RL
B	
C	
D	
	RCLM (DAY only) or RL

UUDL/IAR

JEPPESEN

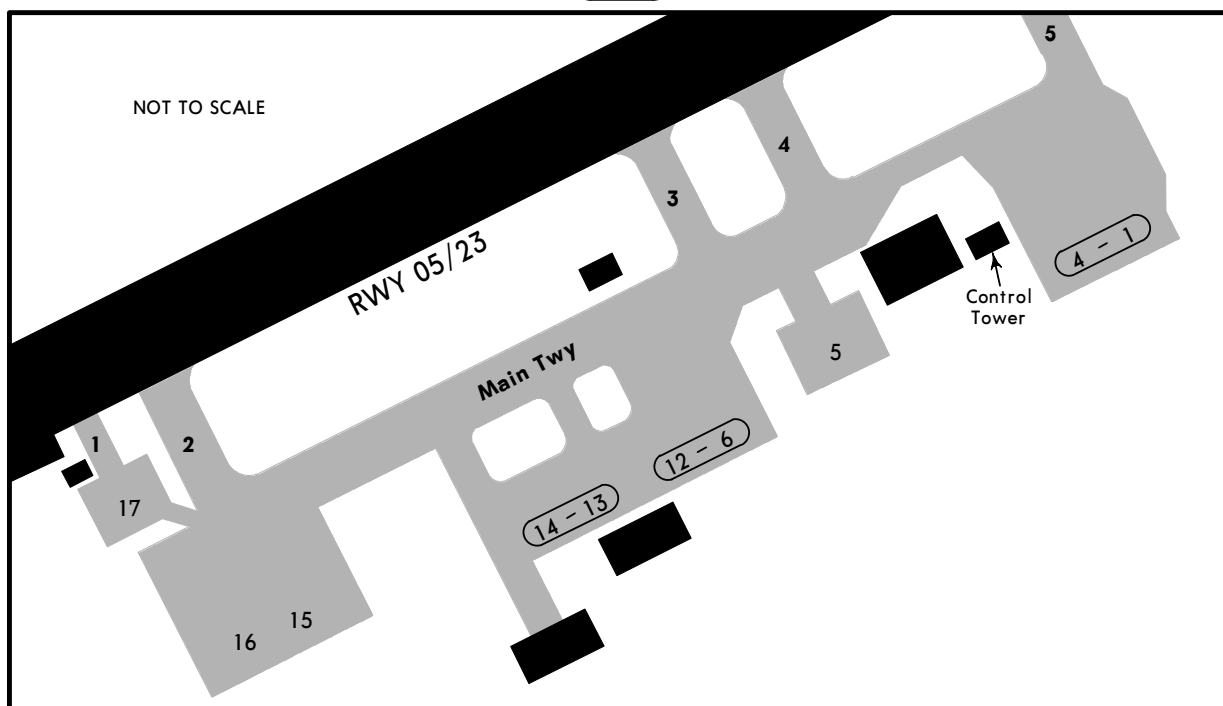
2 JAN 09

10-9A

Eff 15 Jan

YAROSLAVL, RUSSIA

TUNOSHNA



Main Twy from Twy 4 to stands 1 thru 4 is not available.
Stands 6 thru 12 available for helicopters.
Stand 17 available as quarantine stand.

UUDL/IAR


JEPPESEN
 2 JAN 09 **10-9X** Eff 15 Jan
JAA MINIMUMS**YAROSLAVL, RUSSIA**
TUNOSHNA

STRAIGHT-IN RWY		A	B	C	D
05	NDB	1110' (824')	1110' (824')	1110' (824')	1110' (824')
		R1500m	R1500m	R2000m	R2000m
23	ILS	501' (200')	501' (200')	501' (200')	501' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	2 NDB	630' (329')	630' (329')	630' (329')	630' (329')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
RG LOM or R LMM		1060' (759')	1060' (759')	1060' (759')	1060' (759')
		R1200m	R1400m	R1400m	R1800m
	ALS out	R1500m	R1500m	R2000m	R2000m

TAKE-OFF RWY 05, 23

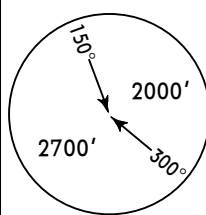
LVP must be in Force			
RCLM (DAY only) or RL		RCLM (DAY only) or RL	NIL (DAY only)
A	250m	400m	500m
B			
C			
D	300m		

UUDL/IAR
TUNOSHNA

JEPPESSEN
2 JAN 09 **11-1** Eff 15 Jan

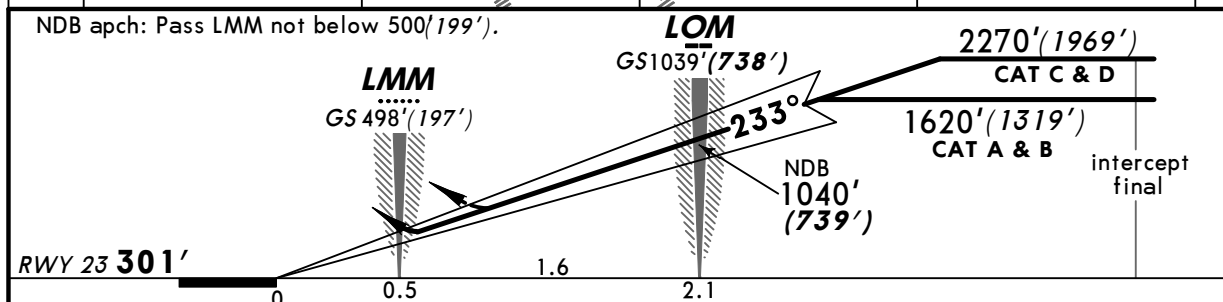
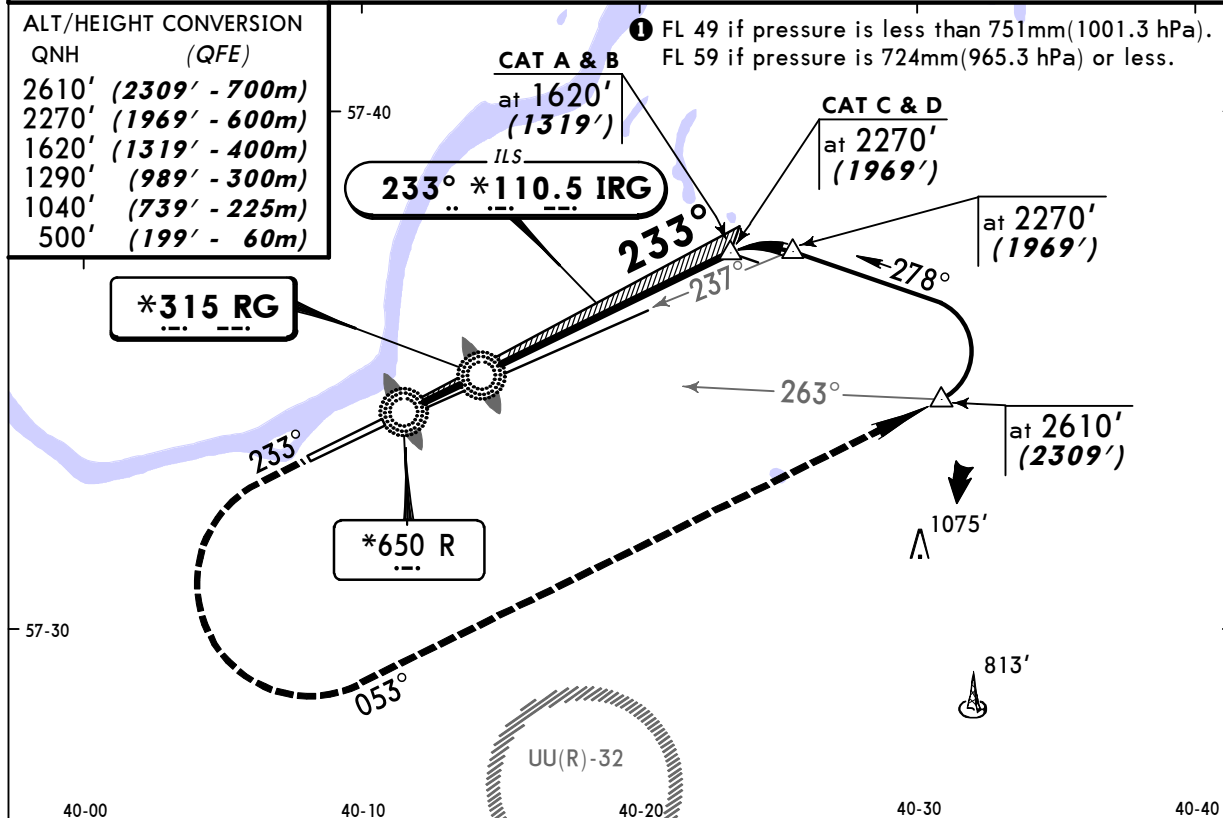
YAROSLAVL, RUSSIA
ILS or 2 NDB Rwy 23

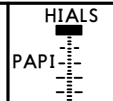
BRIEFING STRIP

*ATIS 127.35		*TUNOSHNA Approach (APP/SRE/TWR) 120.3		*Ground 120.3		
LOC IRG *110.5	Final Apch Crs 233°	GS LOM 1039' (738')	ILS DA(H) 501' (200')	Apt Elev 305' RWY 301'		
NDB RG *315		Minimum Alt LOM 1040' (739')	2 NDB MDA(H) 630' (329')			
MISSED APCH: Climb on 233° to 1290' (989'), then turn LEFT onto 053°, then according to chart. Start turn at least 5.4 NM from threshold rwy 23.						
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 39 1		
				Trans alt: 2610' (2309')		

ALT/HEIGHT CONVERSION

QNH	(QFE)
2610'	(2309' - 700m)
2270'	(1969' - 600m)
1620'	(1319' - 400m)
1290'	(989' - 300m)
1040'	(739' - 225m)
500'	(199' - 60m)



Gnd speed-Kts	70	90	100	120	140	160		1290' (989') on 233°
ILS GS 3.00° or NDB Descent Gradient 5.2%	377	484	538	646	753	861		

STRAIGHT-IN LANDING RWY 23							
ILS DA(H) 501' (200')		LOC (GS out)		2 NDB MDA(H) 630' (329')		RG LOM or R LMM MDA(H) 1060' (759')	
FULL	ALS out			ALS out		ALS out	
A							
B	RVR 720m VIS 800m	1200m		RVR 1500m VIS 1600m		3200m	3600m
C		NOT AUTHORIZED					
D				RVR 1500m VIS 1600m		3600m	4000m

PANS OPS

UUDL/IAR
TUNOSHNA

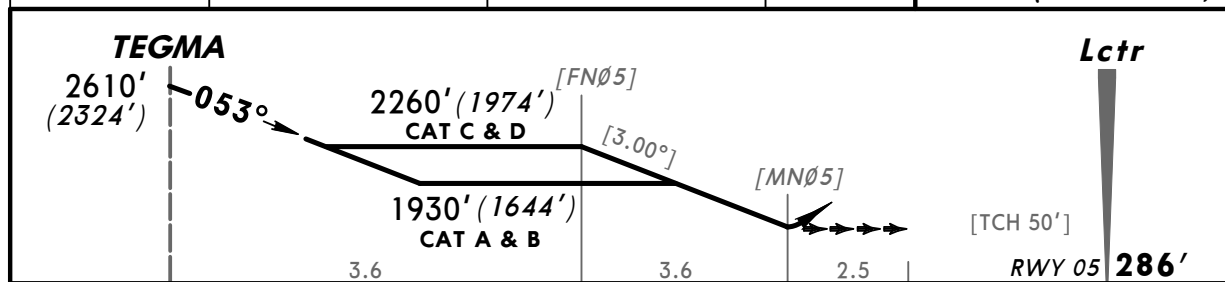
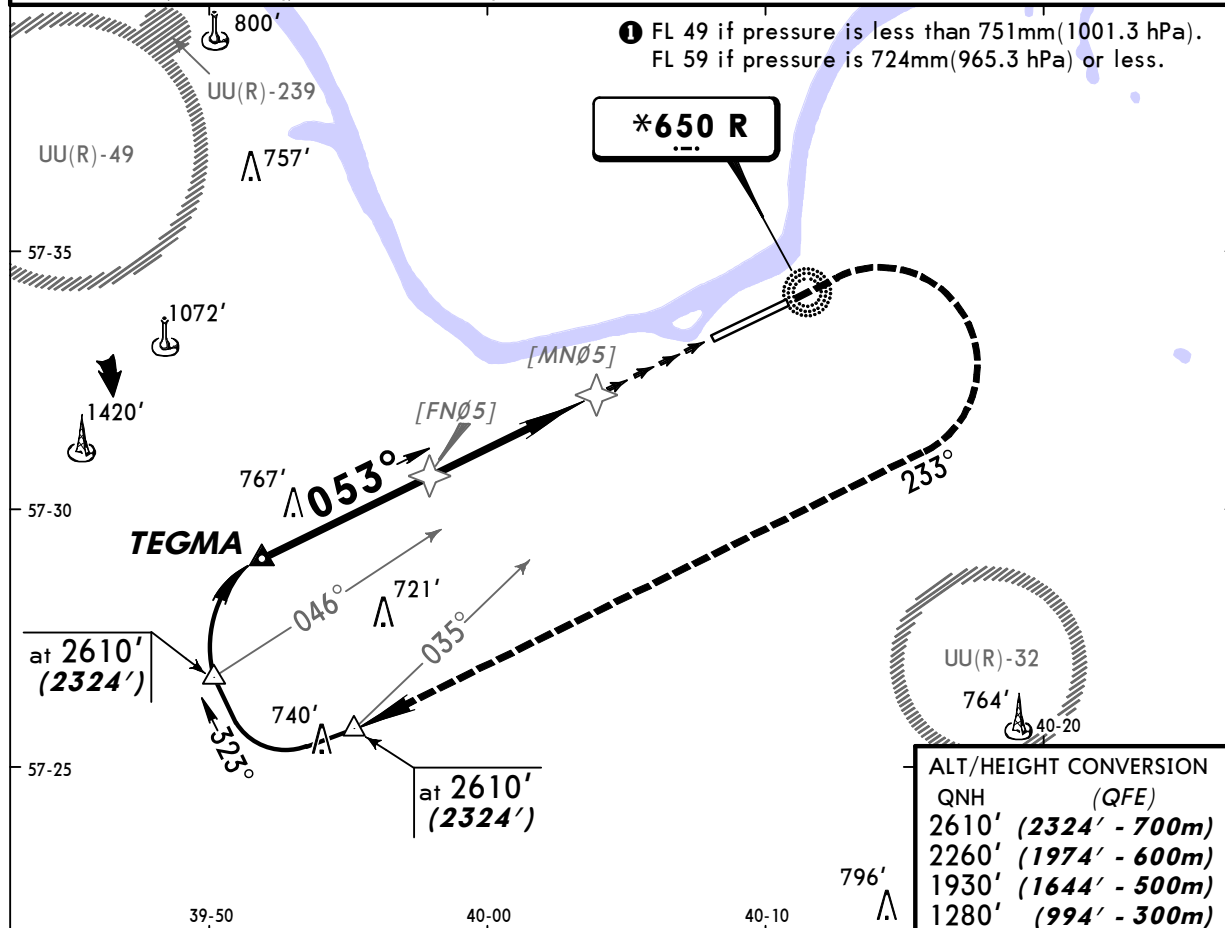
JEPPESSEN
2 JAN 09 **(16-1)** Eff 15 Jan

YAROSLAVL, RUSSIA
NDB Rwy 05

BRIEFING STRIP

*ATIS 127.35		*TUNOSHNA Approach (APP/SRE/TWR) 120.3		*Ground 120.3		 MSA R Lctr
Lctr R *650	Final Apch Crs 053°	Minimum Alt No FAF	MDA(H) 1110' (824')	Apt Elev 305'	RWY 286'	
MISSED APCH: Climb on 053° to 1280' (994'), then turn RIGHT onto 233°, then according to chart.						

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 39 **1** Trans alt: 2610' (**2324'**)



Gnd speed-Kts	70	90	100	120	140	160	1280' (994') on 053°
Descent gradient 5.24% or	372	478	531	637	743	849	
Descent angle [3.00°]							

STRAIGHT-IN LANDING RWY 05		ALS out	
MDA(H) 1110' (824')			
A	3200m		
B	4000m		
C	4400m		
D	4400m		

PANS OPS