

URRR/ROV
ROSTOV-NA-DONU

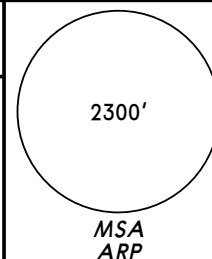
JEPPESEN ROSTOV-NA-DONU, RUSSIA
10 NOV 06 10-2 Eff 23 Nov STAR

ATIS
121.7

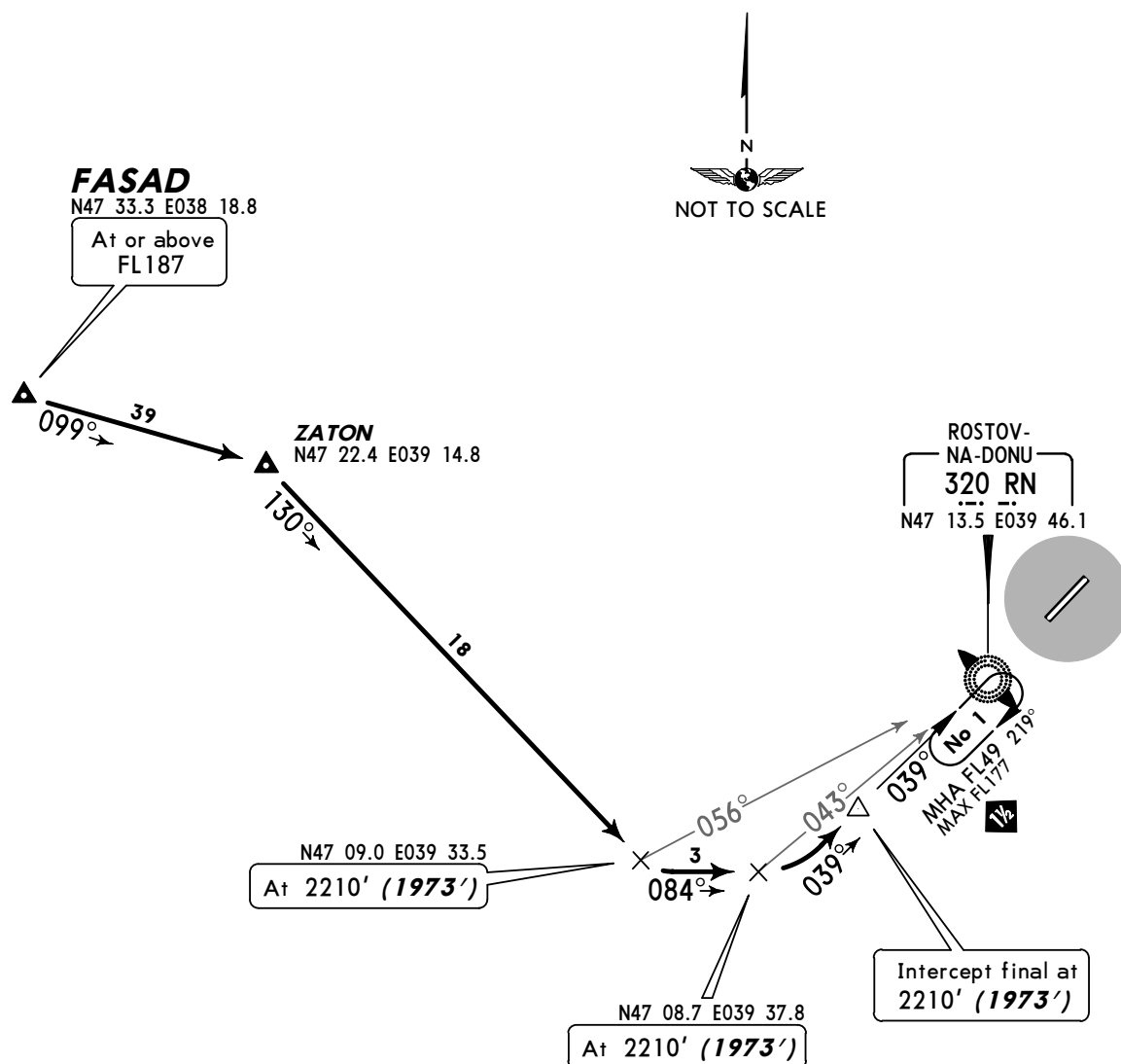
Apt Elev
280'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL49 Trans alt: 3240' (3003')

(QFE)



FASAD 04 BRAVO (FS 04B)
RWY 04 ARRIVAL
BY ATC



FL CONVERSION
FL187 FL5700m
FL177 FL5400m
FL49 FL1500m

ALT/HEIGHT CONVERSION
QNH (QFE)
3240' (3003' - 900m)
2210' (1973' - 600m)

ROUTING

099° track to ZATON, turn RIGHT, 130° track to N47 09.0 E039 33.5, turn LEFT, 084° track to N47 08.7 E039 37.8, turn LEFT, 039° track, intercept final.

URRR/ROV
ROSTOV-NA-DONU

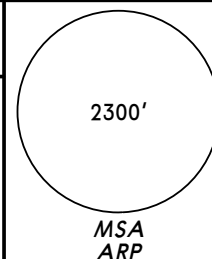
JEPPESEN ROSTOV-NA-DONU, RUSSIA
10 NOV 06 (10-2A) Eff 23 Nov STAR

ATIS
121.7

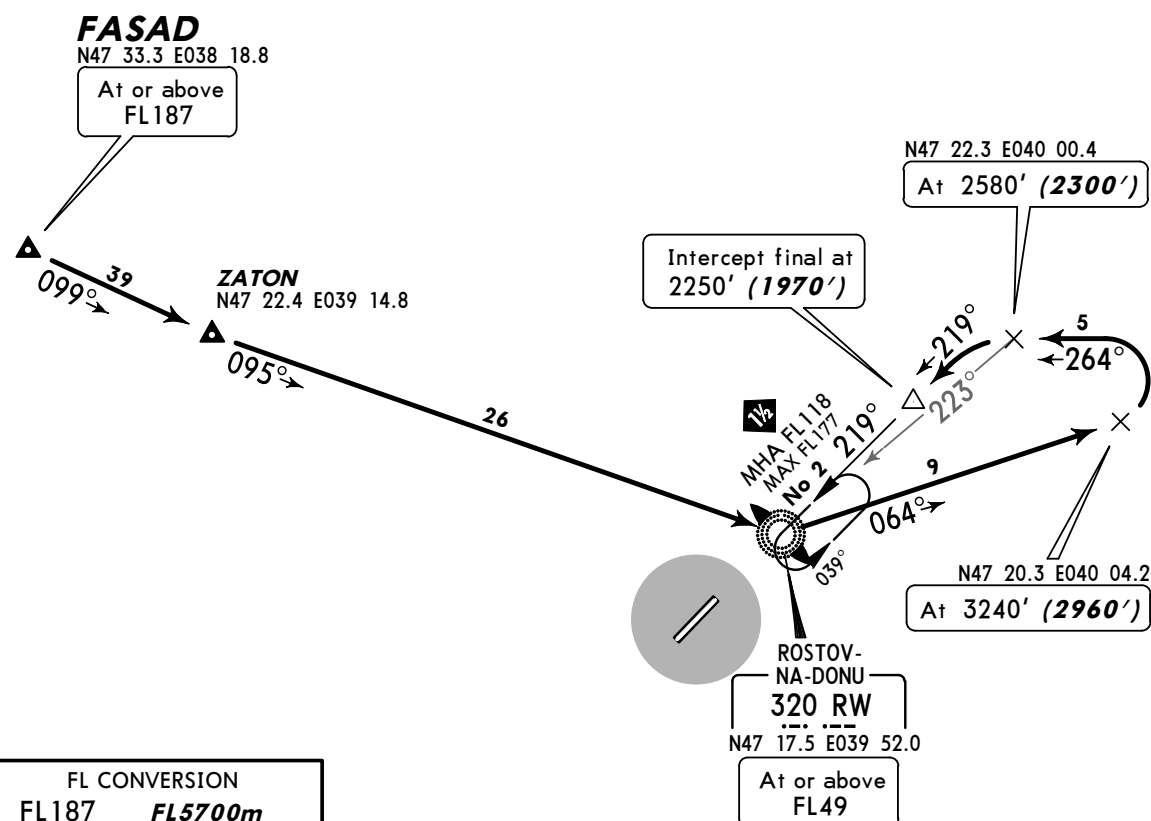
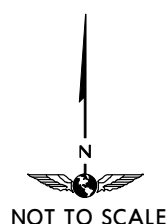
Apt Elev
280'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL49 Trans alt: 3240' (2960')

(QFE)



FASAD 22 BRAVO (FS 22B)
RWY 22 ARRIVAL
BY ATC



FL CONVERSION	
FL187	FL5700m
FL177	FL5400m
FL118	FL3600m
FL49	FL1500m

ALT/HEIGHT CONVERSION	
QNH	(QFE)
3240'	(2960' - 900m)
2580'	(2300' - 700m)
2250'	(1970' - 600m)

ROUTING

099° track to ZATON, turn LEFT, intercept 095° bearing to RW, turn LEFT, 064° bearing to N47 20.3 E040 04.2, turn LEFT, 264° track to N47 22.3 E040 00.4, turn LEFT, 219° track, intercept final.

URRR/ROV
ROSTOV-NA-DONU

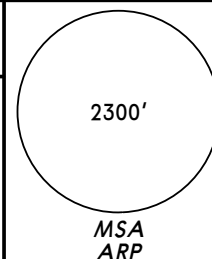
JEPPESEN ROSTOV-NA-DONU, RUSSIA
8 DEC 06 **10-2B** Eff 21 Dec **STAR**

ATIS
121.7

Apt Elev
280'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL49 Trans alt: 3240' (**3003'**)

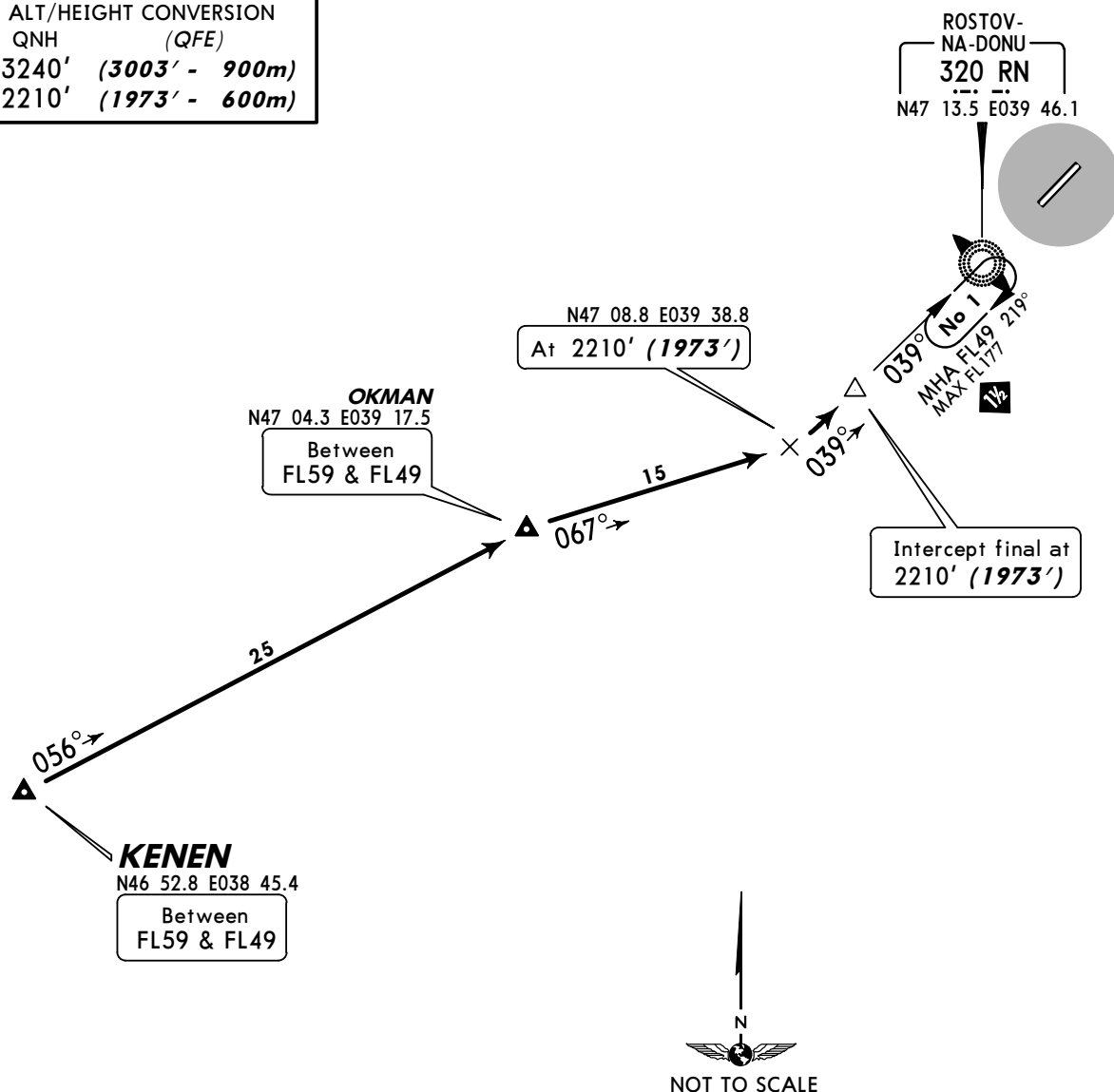
(QFE)



KENEN Ø4 ALFA (KN Ø4A)
RWY 04 ARRIVAL

FL CONVERSION
FL177 **FL5400m**
FL59 **FL1800m**
FL49 **FL1500m**

ALT/HEIGHT CONVERSION
QNH (QFE)
3240' (**3003' - 900m**)
2210' (**1973' - 600m**)



ROUTING

056° track to OKMAN, turn RIGHT, 067° track to N47 08.8 E039 38.8, turn LEFT, 039° track, intercept final.

URRR/ROV
ROSTOV-NA-DONU

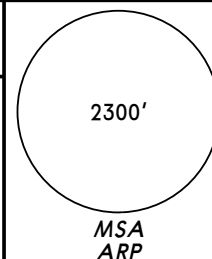
JEPPESEN ROSTOV-NA-DONU, RUSSIA
8 DEC 06 **10-2C** Eff 21 Dec **STAR**

ATIS
121.7

Apt Elev
280'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL49 Trans alt: 3240' (2960')

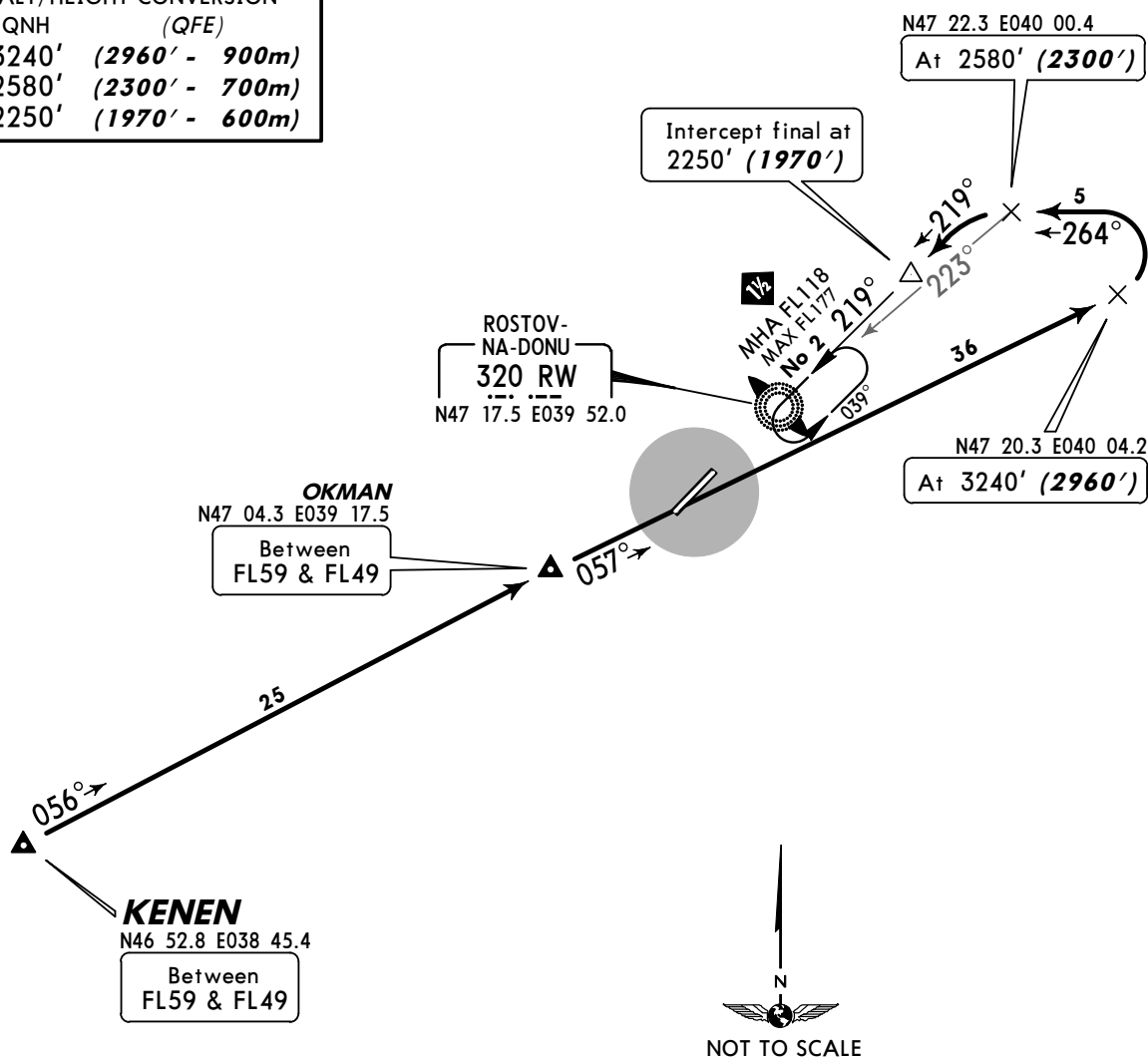
(QFE)



KENEN 22 ALFA (KN 22A)
RWY 22 ARRIVAL

FL CONVERSION
FL177 **FL5400m**
FL118 **FL3600m**
FL59 **FL1800m**
FL49 **FL1500m**

ALT/HEIGHT CONVERSION
QNH (QFE)
3240' (2960' - 900m)
2580' (2300' - 700m)
2250' (1970' - 600m)



ROUTING

056° track to OKMAN, turn RIGHT, 057° track to N47 20.3 E040 04.2, turn LEFT, 264° track to N47 22.3 E040 00.4, turn LEFT, 219° track, intercept final.

URRR/ROV

ROSTOV-NA-DONU

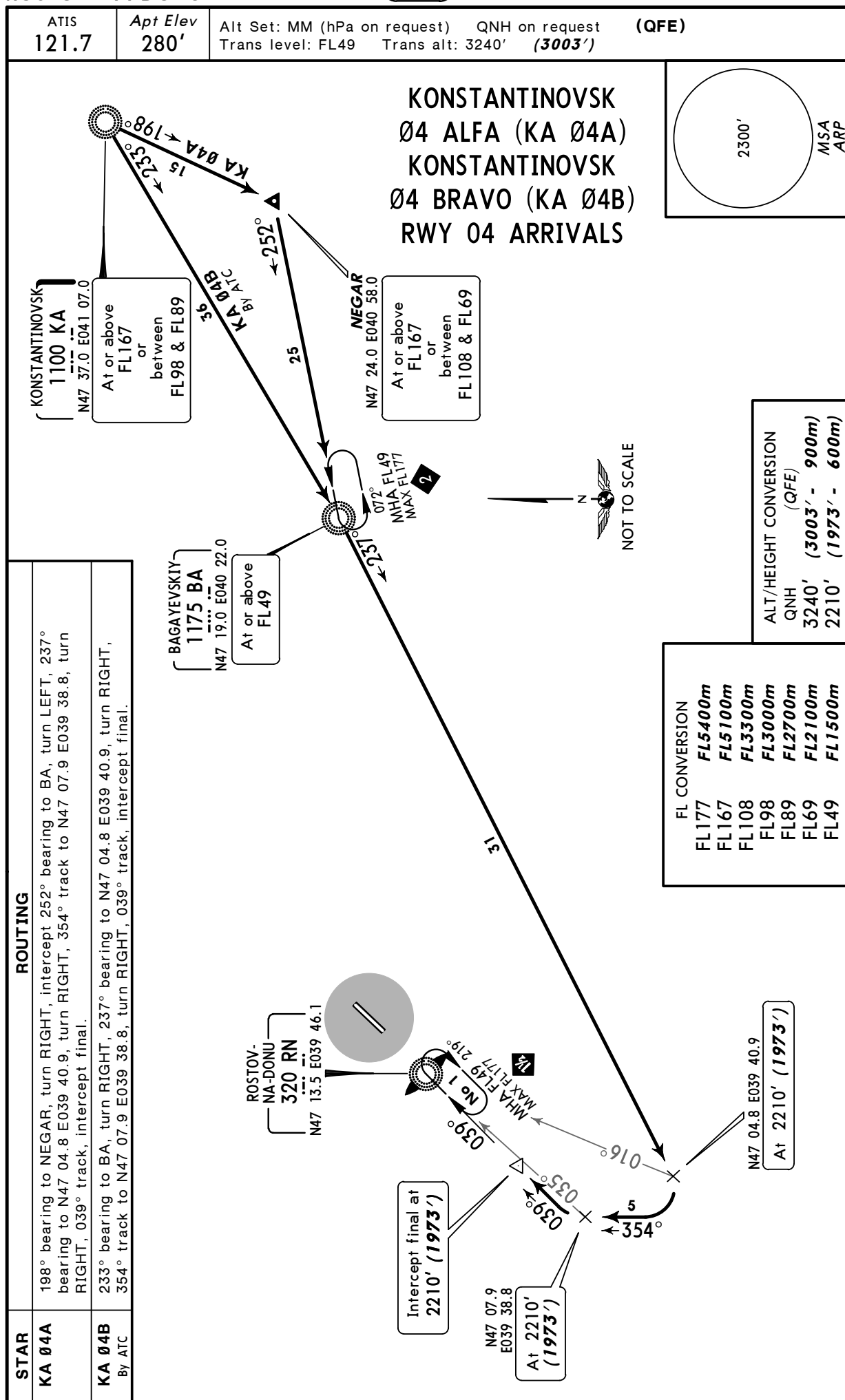
JEPP ESEN ROSTOV-NA-DONU, RUSSIA

10 NOV 06

10-2D

Eff 23 Nov

STAR



CHANGES: Crossings; chart reindexed.

© JEPP ESEN SANDERSON, INC., 2003, 2006. ALL RIGHTS RESERVED.

URRR/ROV
ROSTOV-NA-DONU

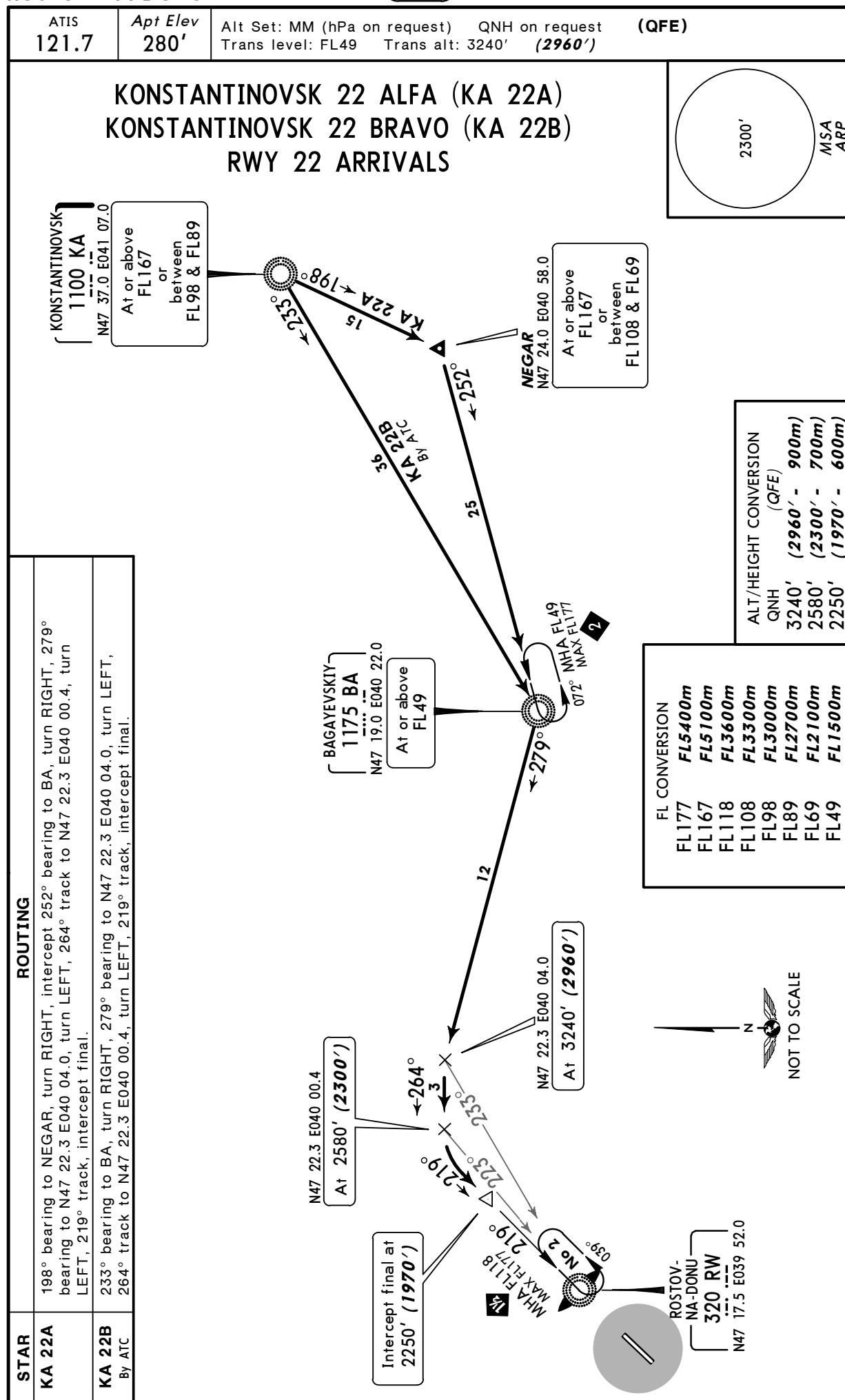
10 NOV 06

JEPPESEN ROSTOV-NA-DONU, RUSSIA

10-2E

Eff 23 Nov

STAR



URRR/ROV
ROSTOV-NA-DONU

10 NOV 06

JEPPESEN ROSTOV-NA-DONU, RUSSIA

10-2F

Eff 23 Nov

STAR

ATIS
121.7

Apt Elev
280'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL49 Trans alt: 3240' (3003')

(QFE)

LATRI 04 ALFA (LT 04A)
LATRI 04 BRAVO (LT 04B)
RWY 04 ARRIVALS

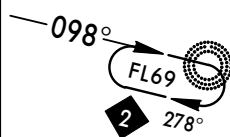
LATRI
N48 09.0 E040 03.0

At or above
FL79

2300'

MSA
ARP

HOLDINGS OVER
SB RN



FL CONVERSION
FL177 **FL5400m**
FL79 **FL2400m**
FL69 **FL2100m**
FL59 **FL1800m**
FL49 **FL1500m**

ALT/HEIGHT CONVERSION
QNH (QFE)
3240' (3003' - 900m)
2210' (1973' - 600m)



N47 09.9 E039 33.1
At 3240' (3003')

N47 08.7 E039 37.8
At 2210' (1973')

ROSTOV-
NA-DONU
320 RN
N47 13.5 E039 46.1

ROSTOV-
NA-DONU
659 N
N47 14.7 E039 47.8
Between
FL69 & FL59

Intercept final at
2210' (1973')

N47 07.9 E039 38.8
(035° brg to RN)
At 2210' (1973')

N47 05.3 E039 41.6
At 3240' (3003')

STAR

ROUTING

LT 04A

Intercept 196° bearing to SB, turn LEFT, 168° bearing to SLAVA, turn RIGHT, intercept 179° bearing via N47 23.7 E039 49.2 to N, turn RIGHT, 199° bearing to N47 05.3 E039 41.6, turn RIGHT, 354° track to N47 07.9 E039 38.8, turn RIGHT, 039° track, intercept final.

LT 04B

Intercept 196° bearing to SB, turn LEFT, 190° bearing to N47 09.9 E039 33.1, turn LEFT, 084° track to N47 08.7 E039 37.8, turn LEFT, 039° track, intercept final.

URRR/ROV
ROSTOV-NA-DONU

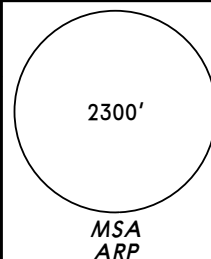
JEPPESEN ROSTOV-NA-DONU, RUSSIA
10 NOV 06 (10-2G) Eff 23 Nov STAR

ATIS
121.7

Apt Elev
280'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL49 Trans alt: 3240' (2960')

(QFE)



LATRI 22 ALFA (LT 22A) RWY 22 ARRIVAL

FL CONVERSION	
FL177	FL5400m
FL118	FL3600m
FL79	FL2400m
FL59	FL1800m
FL49	FL1500m

ALT/HEIGHT CONVERSION	
QNH	(QFE)
3240'	(2960' - 900m)
2250'	(1970' - 600m)

LATRI
N48 09.0 E040 03.0

At or above
FL79

KRASNY SULIN
486 KL
N47 53.0 E040 06.0

At or above
FL79

BEREG
N47 34.4 E040 02.0

At or above
FL59

N47 22.8 E039 59.3

At 2250' (1970')

Intercept final at
2250' (1970')

ROSTOV-
NA-DONU
320 RW
N47 17.5 E039 52.0



MHA FL118
MAX FL177
No 2
039°



ROUTING

Intercept 166° bearing to KL, turn RIGHT, 182° bearing via BEREG to N47 22.8 E039 59.3, turn RIGHT, 219° track, intercept final.

URRR/ROV

ROSTOV-NA-DONU

10 NOV 06

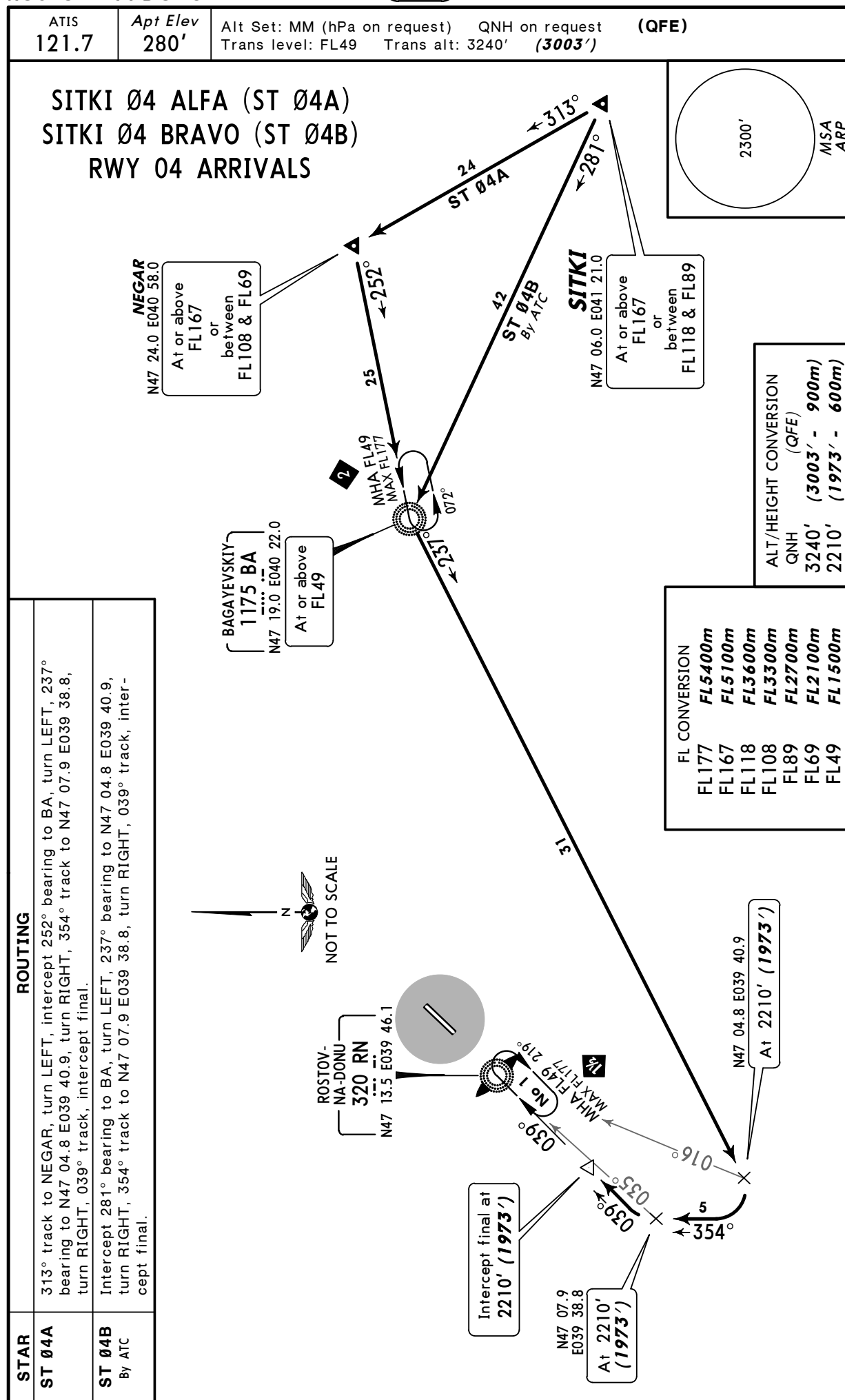
JEPPESSEN

ROSTOV-NA-DONU, RUSSIA

10-2H

Eff 23 Nov

STAR



URRR/ROV
 ROSTOV-NA-DONU

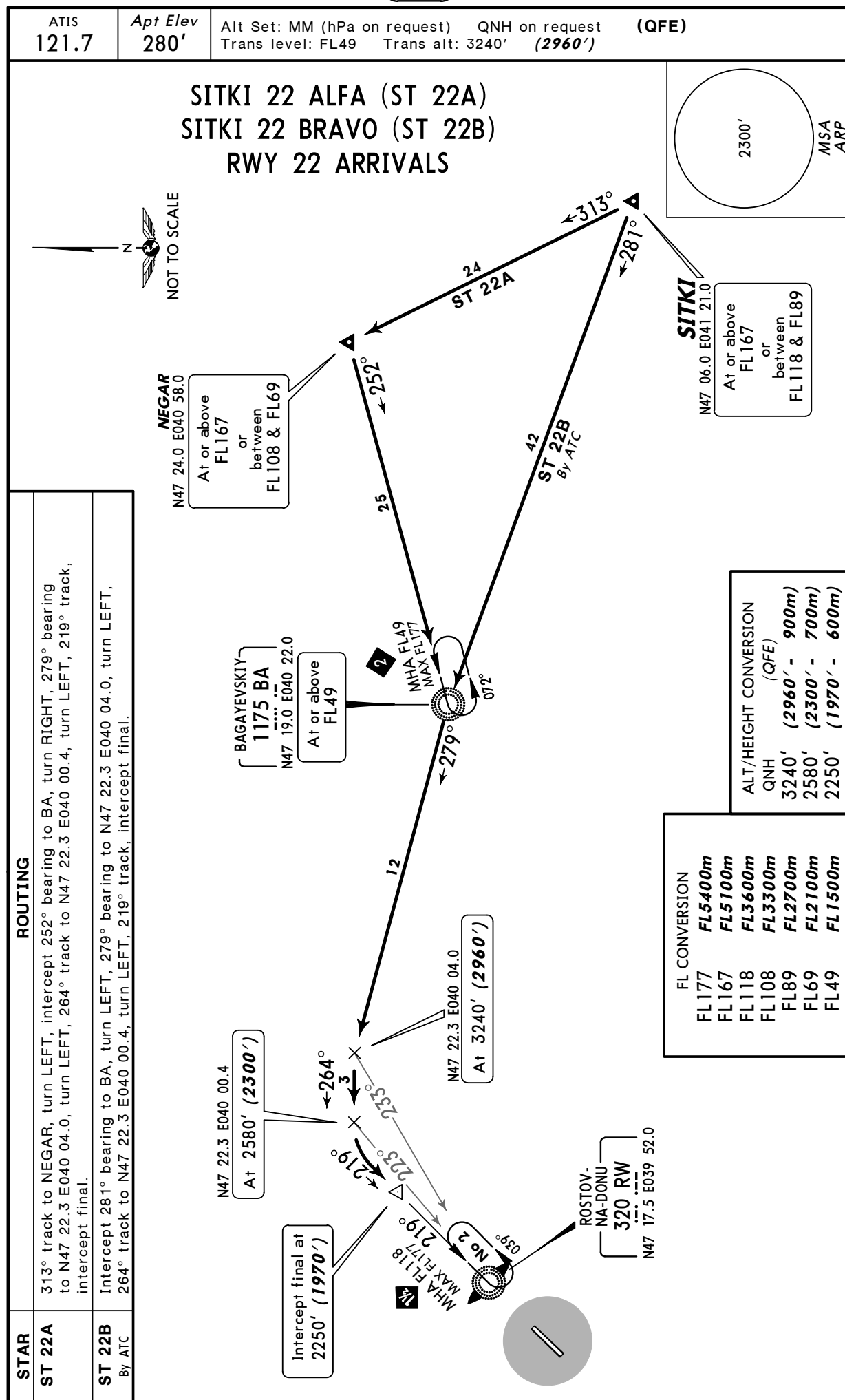
10 NOV 06

JEPPesen ROSTOV-NA-DONU, RUSSIA

10-2J

Eff 23 Nov

STAR



URRR/ROV
ROSTOV-NA-DONU

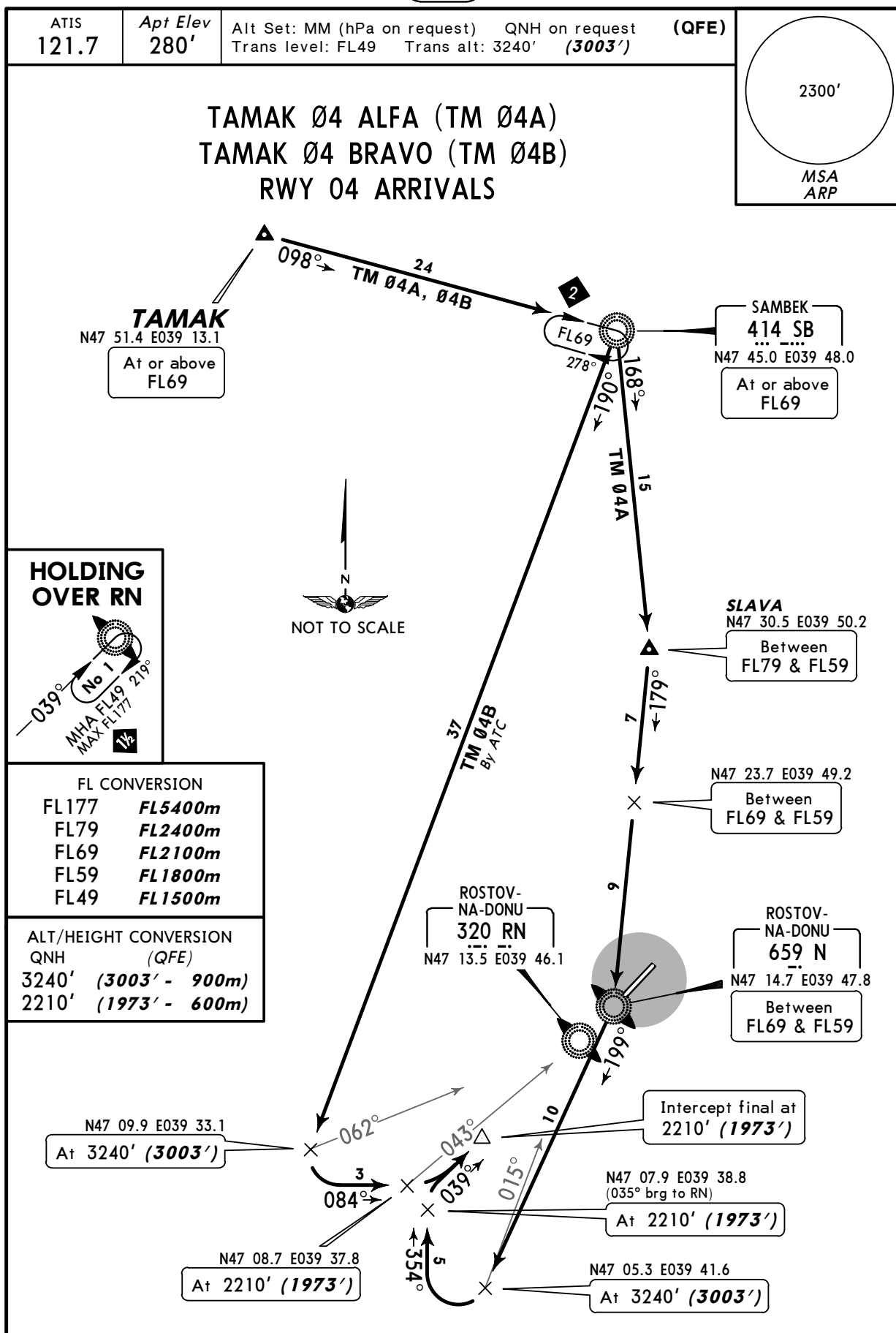
10 NOV 06

JEPPESEN ROSTOV-NA-DONU, RUSSIA

10-2K

Eff 23 Nov

STAR



STAR	ROUTING
TM Ø4A	Intercept 098° bearing to SB, turn RIGHT, 168° bearing to SLAVA, turn RIGHT, intercept 179° bearing via N47 23.7 E039 49.2 to N, turn RIGHT, 199° bearing to N47 05.3 E039 41.6, turn RIGHT, 354° track to N47 07.9 E039 38.8, turn RIGHT, 039° track, intercept final.
TM Ø4B By ATC	Intercept 098° bearing to SB, turn RIGHT, 190° bearing to N47 09.9 E039 33.1, turn LEFT, 084° track to N47 08.7 E039 37.8, turn LEFT, 039° track, intercept final.

URRR/ROV
ROSTOV-NA-DONU

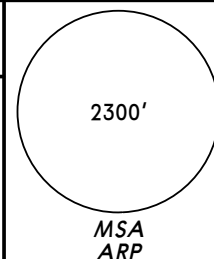
JEPPESEN ROSTOV-NA-DONU, RUSSIA
10 NOV 06 10-2L Eff 23 Nov STAR

ATIS
121.7

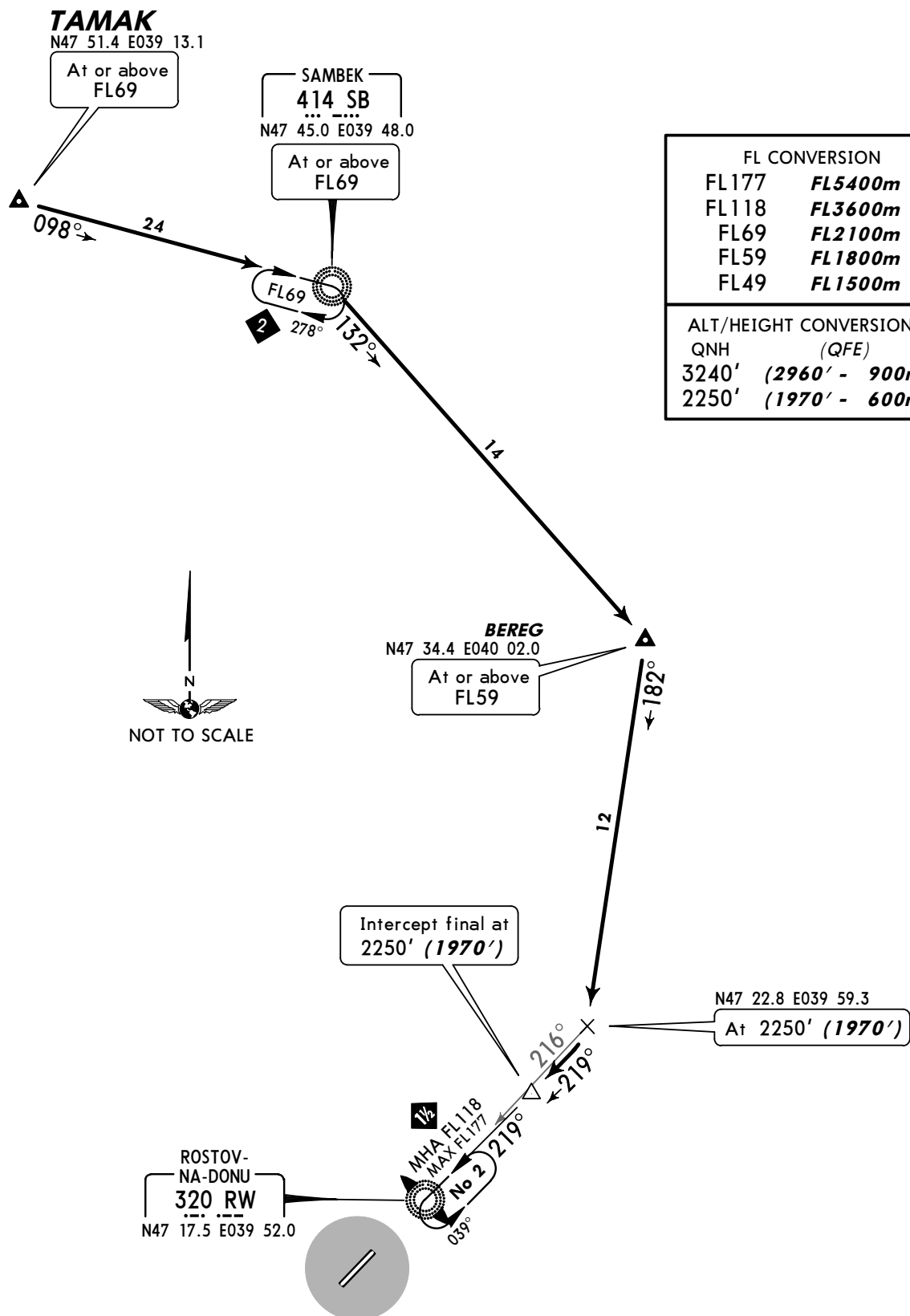
Apt Elev
280'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL49 Trans alt: 3240' (2960')

(QFE)



TAMAK 22 ALFA (TM 22A) RWY 22 ARRIVAL



ROUTING

Intercept 098° bearing to SB, turn RIGHT, 132° bearing to BEREK, turn RIGHT, 182° track to N47 22.8 E039 59.3, turn RIGHT, 219° track, intercept final.

URRR/ROV
ROSTOV-NA-DONU

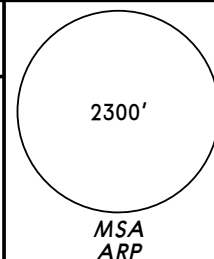
JEPPESEN ROSTOV-NA-DONU, RUSSIA
10 NOV 06 (10-2M) Eff 23 Nov STAR

ATIS
121.7

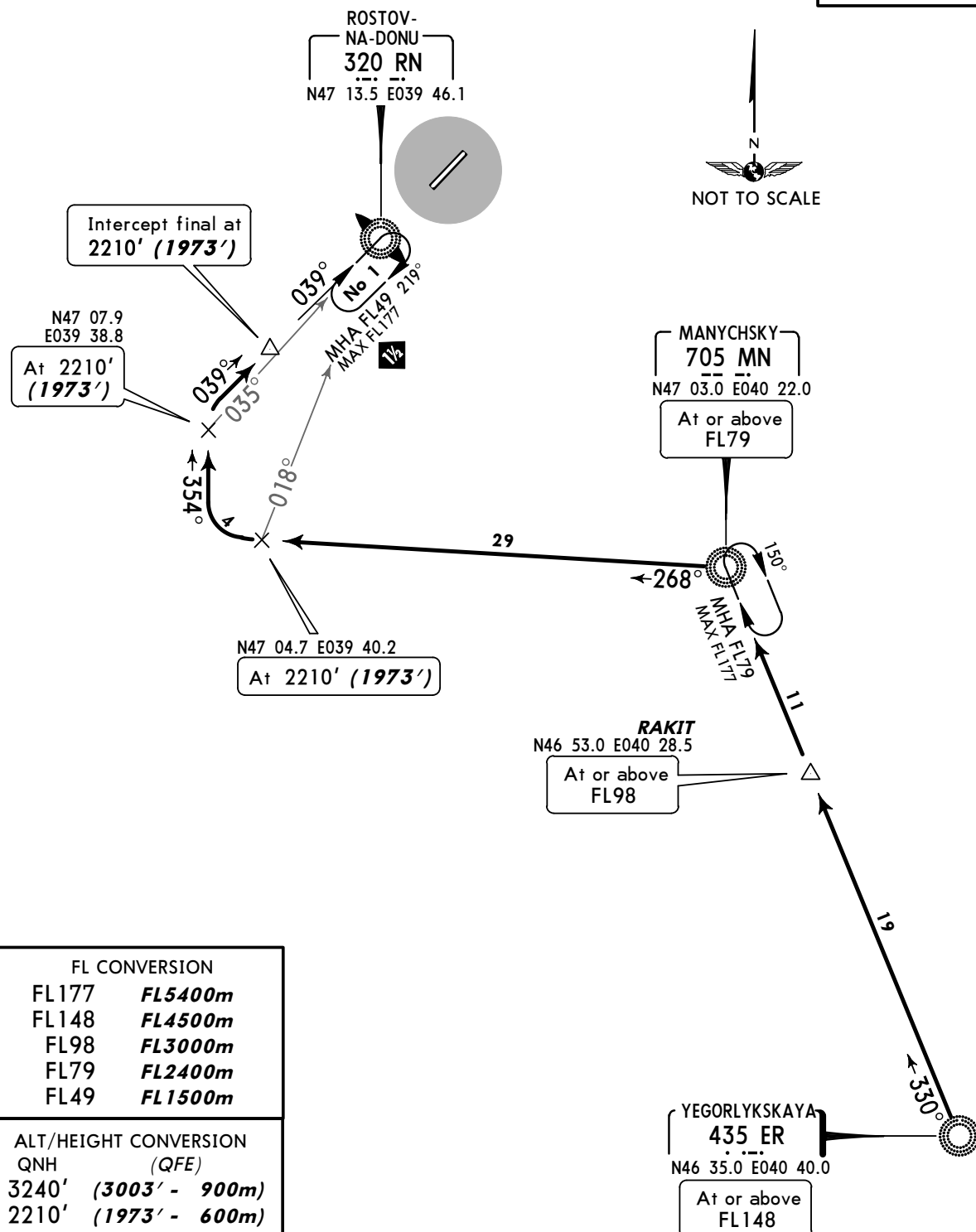
Apt Elev
280'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL49 Trans alt: 3240' (3003')

(QFE)



YEGORLYK 04 ALFA (ER 04A) RWY 04 ARRIVAL



ROUTING

330° bearing via RAKIT to MN, turn LEFT, 268° bearing to N47 04.7 E039 40.2, turn RIGHT, 354° track to N47 07.9 E039 38.8, turn RIGHT, 039° track, intercept final.

URRR/ROV
ROSTOV-NA-DONU

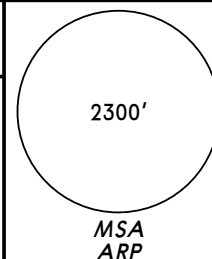
JEPPESEN ROSTOV-NA-DONU, RUSSIA
10 NOV 06 (10-2N) Eff 23 Nov STAR

ATIS
121.7

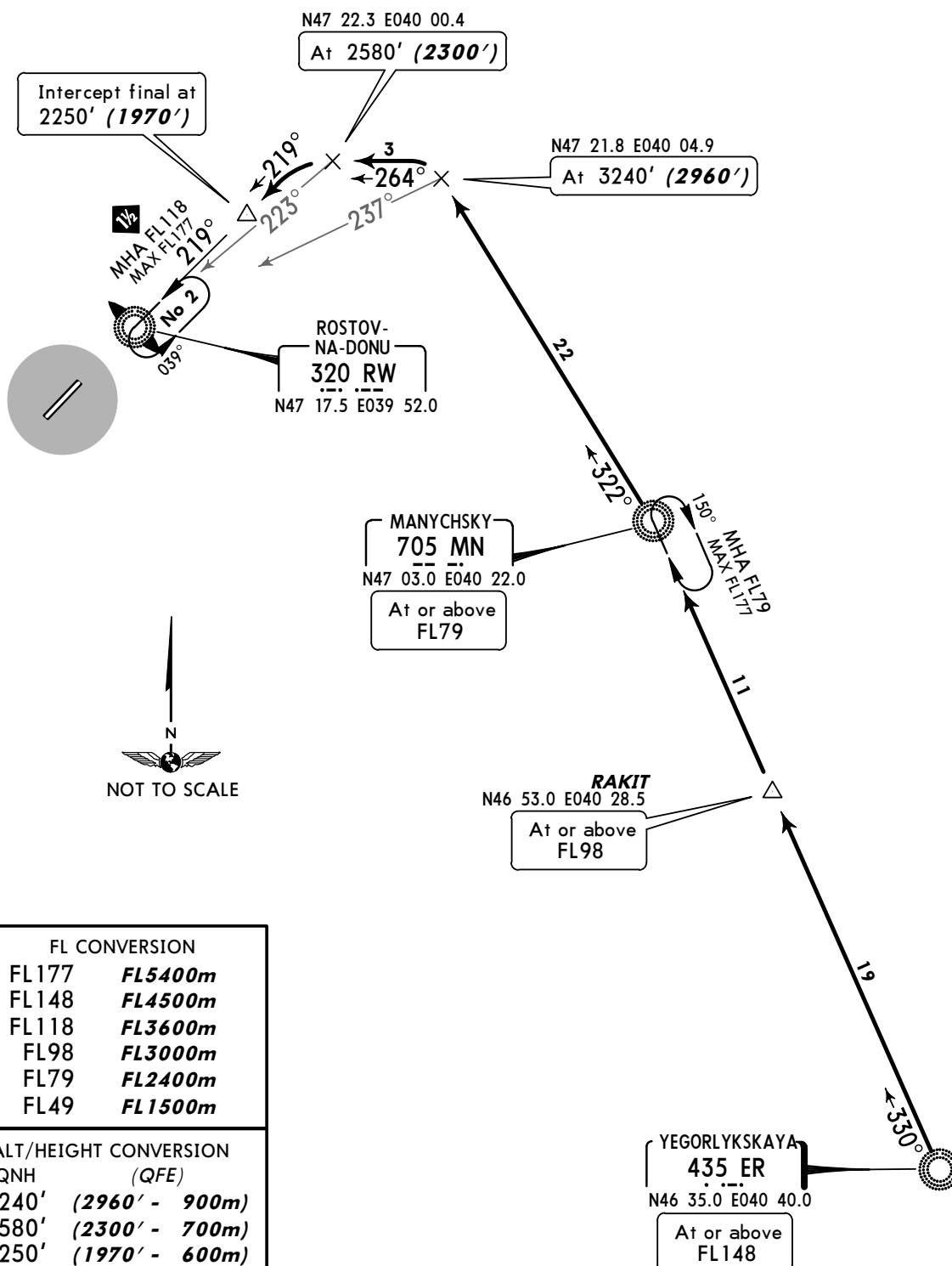
Apt Elev
280'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL49 Trans alt: 3240' (2960')

(QFE)



YEGORLYK 22 ALFA (ER 22A) RWY 22 ARRIVAL



FL CONVERSION

FL177	FL5400m
FL148	FL4500m
FL118	FL3600m
FL98	FL3000m
FL79	FL2400m
FL49	FL1500m

ALT/HEIGHT CONVERSION QNH (QFE)

3240'	(2960' - 900m)
2580'	(2300' - 700m)
2250'	(1970' - 600m)

ROUTING

330° bearing via RAKIT to MN, turn LEFT, 322° bearing to N47 21.8 E040 04.9, turn LEFT, 264° track to N47 22.3 E040 00.4, turn LEFT, 219° track, intercept final.

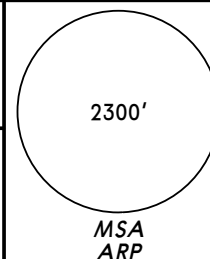
URRR/ROV
ROSTOV-NA-DONU

JEPPESEN ROSTOV-NA-DONU, RUSSIA
8 DEC 06 **10-2P** Eff 21 Dec **STAR**

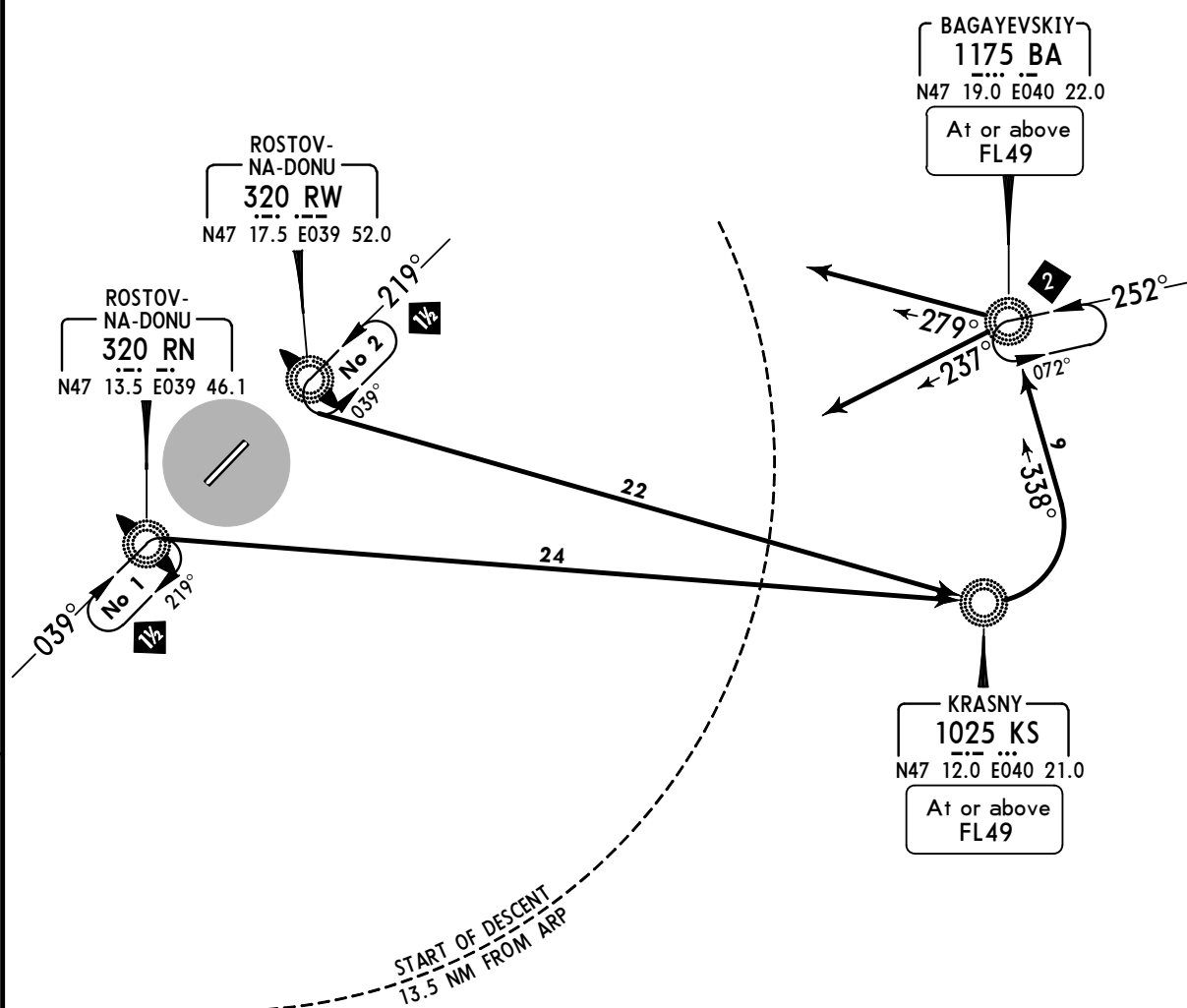
ATIS
121.7

Apt Elev
280'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL49 Trans alt: 3240' (2960')
Approach from BA is carried out in accordance with the established pattern.



RWYS 04, 22 PROCEDURES FOR OUT-OF-TURN
EXIT FROM HOLDING PATTERN TO APPROACH



FL CONVERSION
FL49 **FL1500m**

ALT/HEIGHT CONVERSION
QNH (QFE)
3240' (2960' - 900m)

URRR/ROV
ROSTOV-NA-DONU

10 NOV 06

JEPPESEN ROSTOV-NA-DONU, RUSSIA

10-3

Eff 23 Nov

SID

ROSTOV
Radar
121.2Apt Elev
280'

QNH on request (QFE) Trans level: FL49 Trans alt: 3240' (2960')
 1. Aircraft should take-off with noise abatement procedures according to Flight Manual. 2. Immediately after take-off and climbing to 940' (660') contact ROSTOV Radar. 3. Crossings at AWY entry points by ATC.

DERIB TWO ALFA (DR 2A)
 DERIB TWO BRAVO (DR 2B)
 DERIB TWO DELTA (DR 2D)
 DERIB TWO GOLF (DR 2G)
 RWY 22 DEPARTURES

LATRI
 N48 09.0
 E040 03.0

At
 or above
 FL79

2300'

MSA
ARP

NALEM
 N47 57.0 E039 48.5

At or above
 FL79

DERIB

N47 55.6 E039 54.6

At or above
 FL79

1	Gnd speed-KT	135	162	189	216	243
	Bank-DEG	06	08	11	14	18

2	Gnd speed-KT	108	135	162	189	216
	Bank-DEG	07	11	15	20	25

SAMBK
414 SB

N47 45.0 E039 48.0

At or above
 FL69

SLAVA
 N47 30.5 E039 50.2

Between
 FL59 & FL79

NOT TO SCALE

N47 14.0 E039 46.8

DR 2A

Turn at or above
 1110' (830')

DR 2B

Turn at
 940'
 (660')

N47 10.5 E039 41.6

DR 2G

Turn at or above
 2090' (1810')

MINIMUM RADIUS
 2.65 ①

N47 08.2 E039 38.2

At or above
 2750' (2470')

ALT/HEIGHT CONVERSION

QNH	(QFE)
940'	(660' - 200m)
1110'	(830' - 250m)
2090'	(1810' - 550m)
2750'	(2470' - 750m)
3240'	(2960' - 900m)

FL CONVERSION

FL49	FL1500m
FL59	FL1800m
FL69	FL2100m
FL79	FL2400m

ROSTOV-
NA-DONU
320 RW

N47 17.5 E039 52.0

Between
 FL59 & FL79

DR 2A

This SID requires a minimum climb gradient of 468' per NM (7.7%) until passing RW. If unable to comply, inform ATC before take-off, DR 2D will be assigned.

Gnd speed-KT	75	100	150	200	250	300
468' per NM	585	780	1170	1560	1949	2339

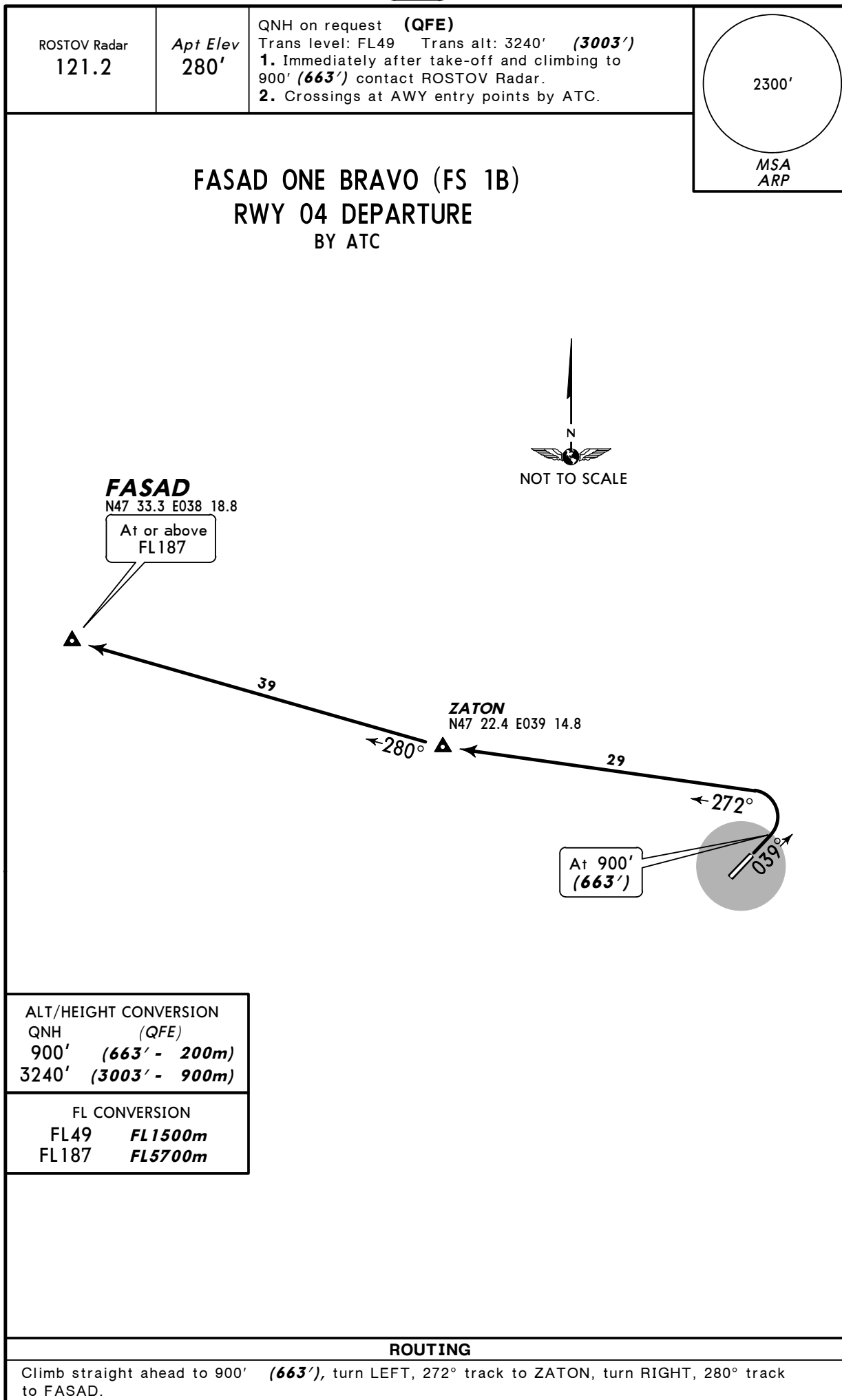
SID

ROUTING

DR 2A	Climb straight ahead, at or above 1110' (830') turn LEFT, intercept 007° bearing to RW, turn LEFT, 348° bearing via SLAVA to SB, turn RIGHT, 016° bearing to DERIB.
DR 2B By ATC	Climb straight ahead to 940' (660'), turn LEFT, intercept 002° bearing to RW, turn LEFT, 348° bearing via SLAVA to SB, turn RIGHT, 016° bearing to DERIB.
DR 2D	Climb straight ahead, at or above 2750' (2470') turn LEFT, intercept 027° bearing to RW, turn LEFT, 348° bearing via SLAVA to SB, turn RIGHT, 016° bearing to DERIB.
DR 2G By ATC	Climb straight ahead, at or above 2090' (1810'), turn RIGHT, intercept 009° bearing to SB, turn RIGHT, 016° bearing to DERIB.

URRR/ROV
ROSTOV-NA-DONU

JEPPESEN ROSTOV-NA-DONU, RUSSIA
10 NOV 06 (10-3A) Eff 23 Nov SID

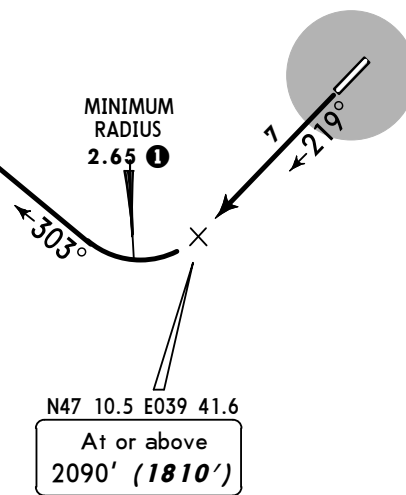
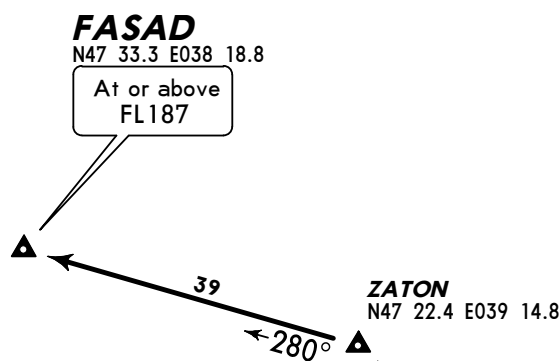
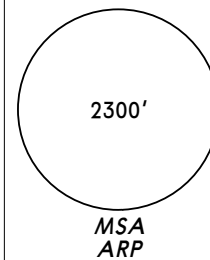


URRR/ROV ROSTOV-NA-DONU

JEPPESEN ROSTOV-NA-DONU, RUSSIA
 10 NOV 06 **(10-3B)** **Eff 23 Nov** **SID**

ROSTOV Radar 121.2	Apt Elev 280'	QNH on request (QFE) Trans level: FL49 Trans alt: 3240' (2960') 1. Aircraft should take-off with noise abatement procedures according to Flight Manual. 2. Immediately after take-off and climbing to 940' (660') contact ROSTOV Radar. 3. Crossings at AWY entry points by ATC.
-----------------------	------------------	---

FASAD TWO BRAVO (FS 2B) RWY 22 DEPARTURE BY ATC



ALT/HEIGHT CONVERSION	
QNH	(QFE)
940'	(660' - 200m)
2090'	(1810' - 550m)
3240'	(2960' - 900m)

FL CONVERSION	
FL49	FL1500m
FL187	FL5700m

1	Gnd speed-KT	135	162	189	216	243
	Bank-DEG	06	08	11	14	18

ROUTING

Climb straight ahead, at or above 2090' **(1810')** turn RIGHT, 303° track to ZATON, turn LEFT, 280° track to FASAD.

URRR/ROV
ROSTOV-NA-DONU

10 NOV 06

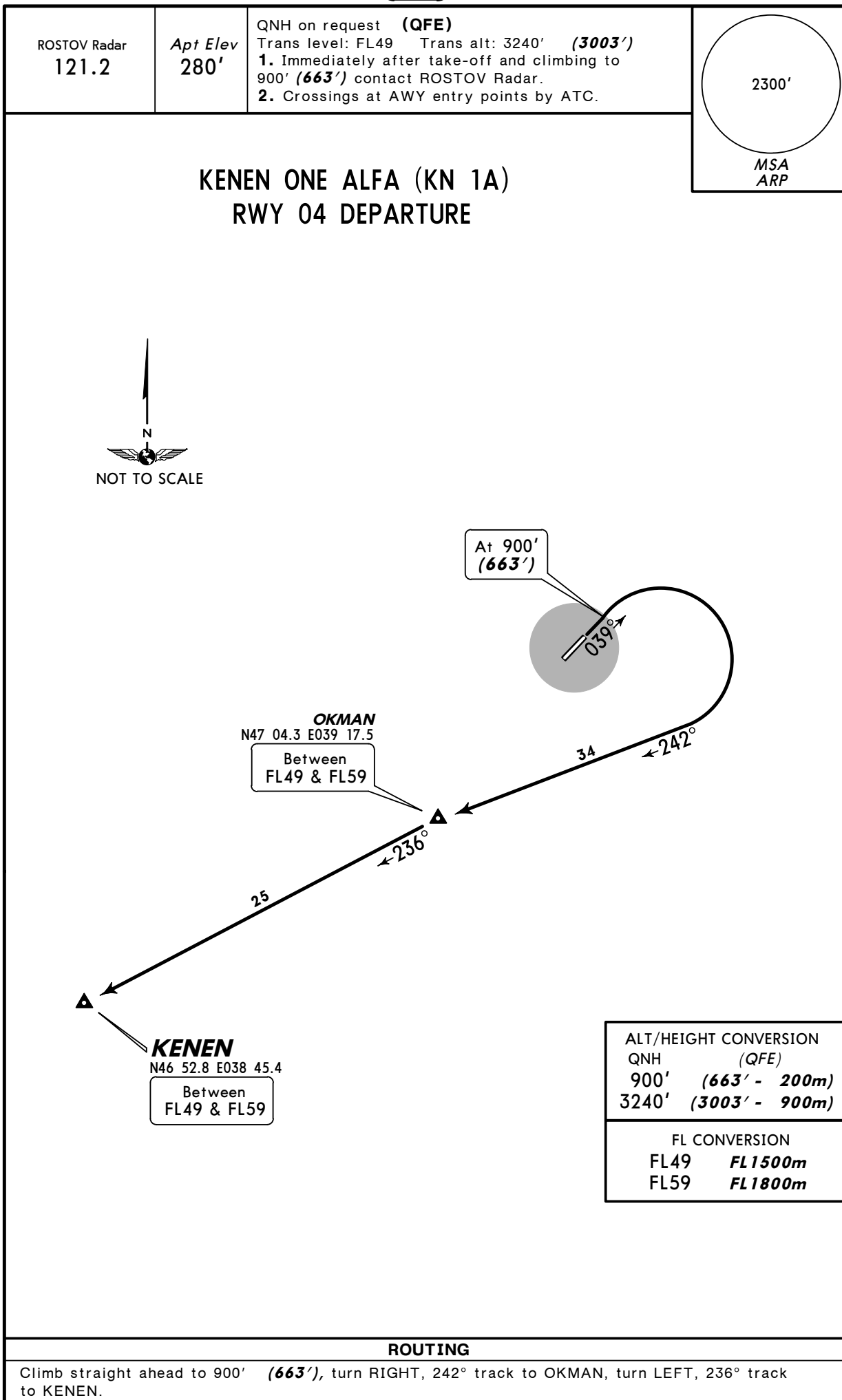


JEPPESEN ROSTOV-NA-DONU, RUSSIA

(10-3C)

Eff 23 Nov

SID



URRR/ROV
ROSTOV-NA-DONU

JEPPESEN ROSTOV-NA-DONU, RUSSIA
10 NOV 06 (10-3D) Eff 23 Nov

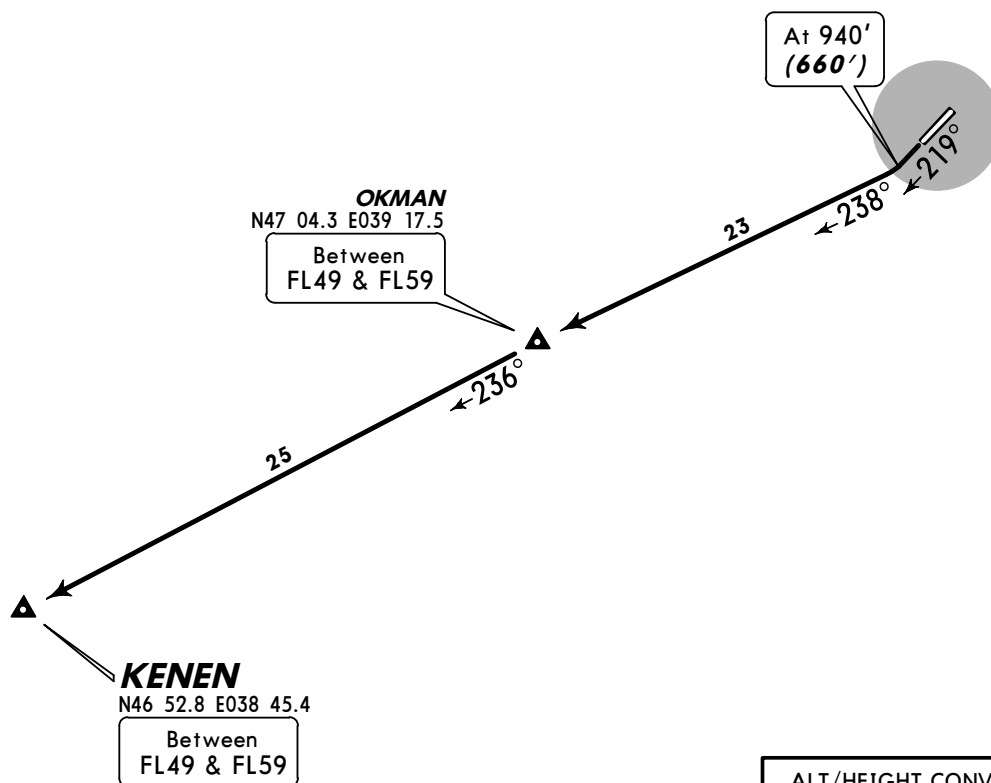
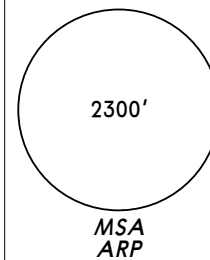
SID

ROSTOV Radar
121.2

Apt Elev
280'

QNH on request (QFE) Trans level: FL49 Trans alt: 3240' (2960')
1. Aircraft should take-off with noise abatement procedures according to Flight Manual.
2. Immediately after take-off and climbing to 940' (660') contact ROSTOV Radar.
3. Crossings at AWY entry points by ATC.

KENEN TWO ALFA (KN 2A)
RWY 22 DEPARTURE



ALT/HEIGHT CONVERSION		
QNH	(QFE)	
940'	(660' -	200m)
3240'	(2960' -	900m)

FL CONVERSION	
FL49	FL1500m
FL59	FL1800m

ROUTING

Climb straight ahead to 940' (660'), turn RIGHT, 238° track to OKMAN, turn LEFT, 236° track to KENEN.

URRR/ROV

ROSTOV-NA-DONU

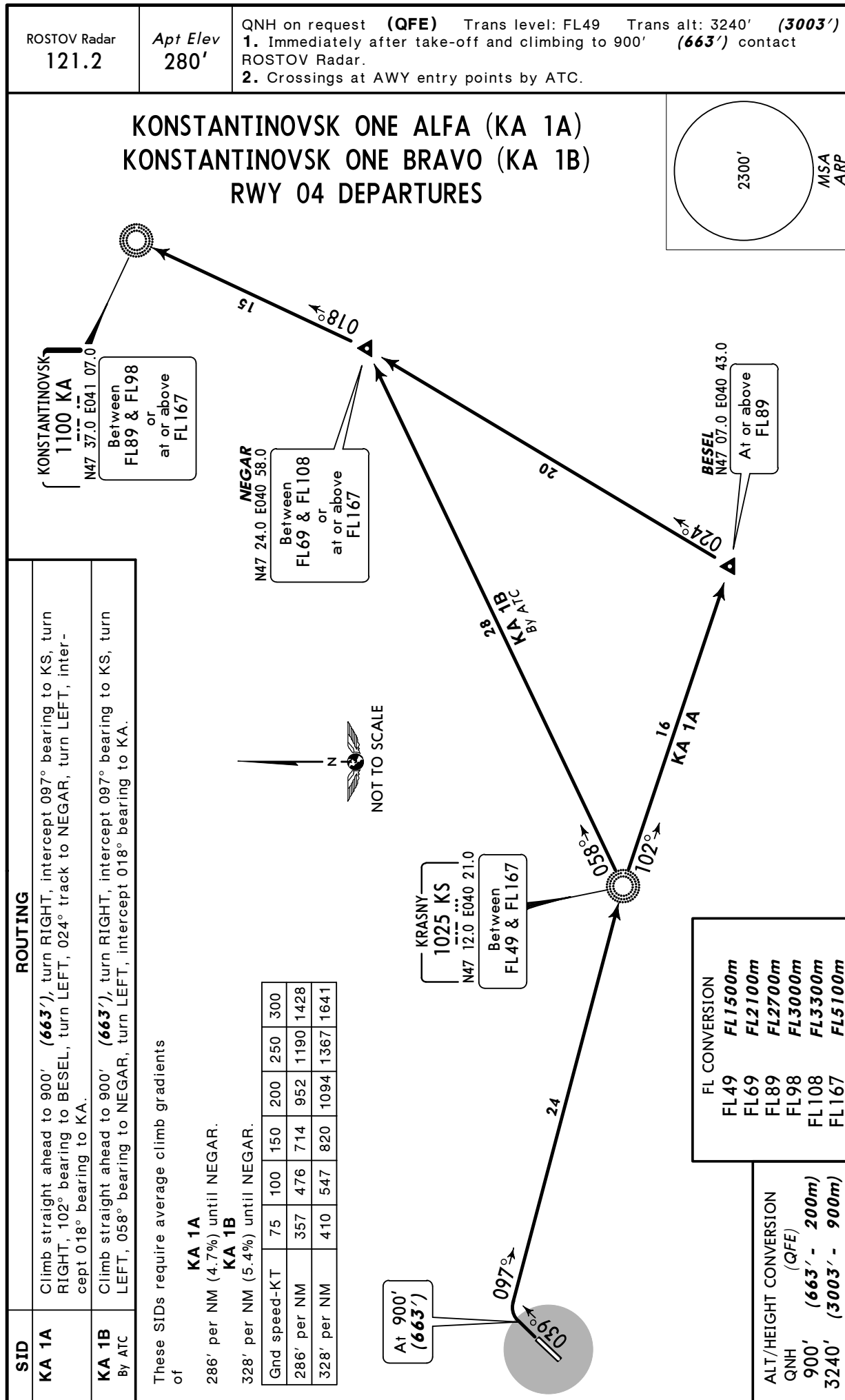
JEPPesen ROSTOV-NA-DONU, RUSSIA

10 NOV 06

10-3E

Eff 23 Nov

SID



URRR/ROV
ROSTOV-NA-DONU

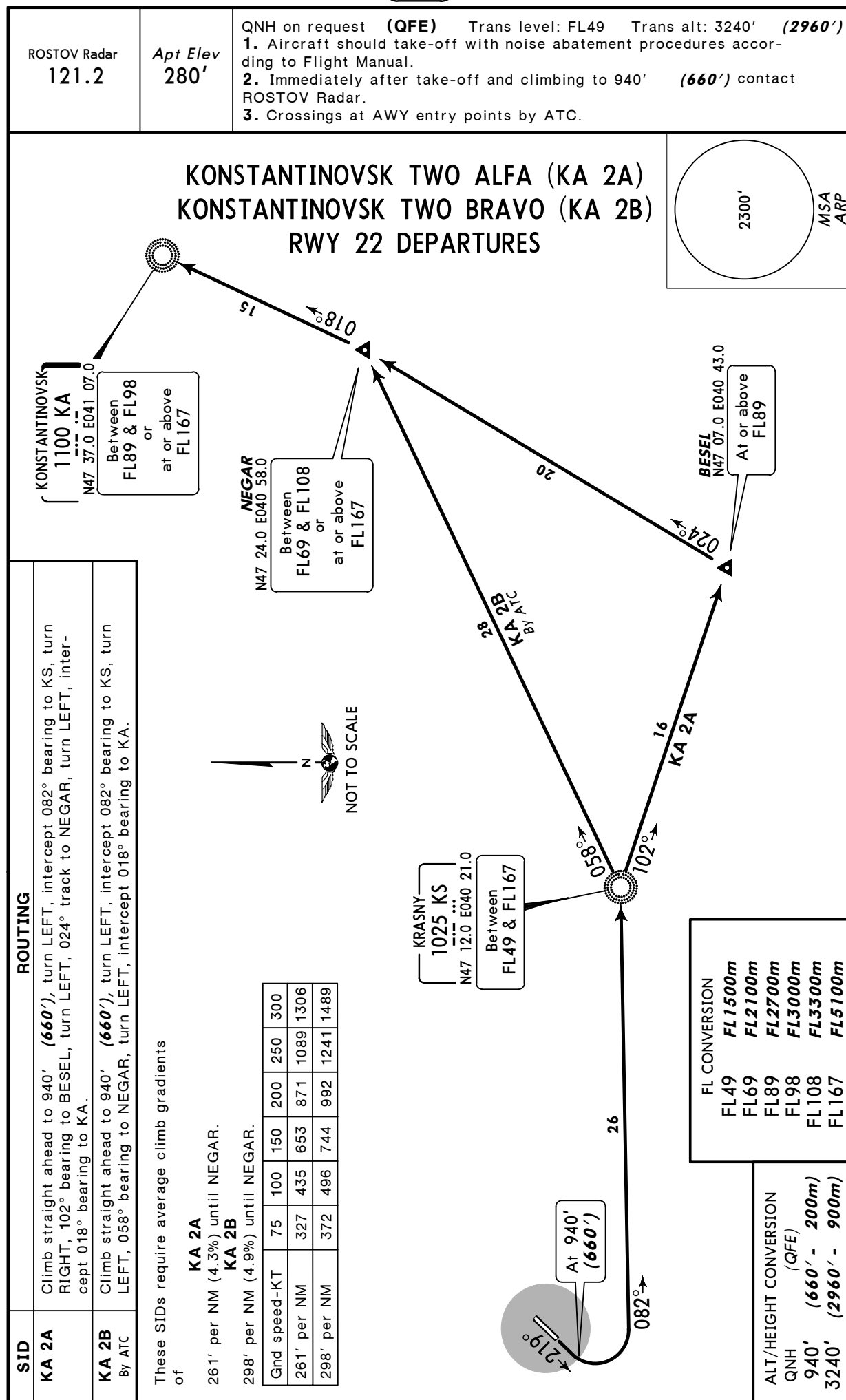
10 NOV 06

JEPPesen ROSTOV-NA-DONU, RUSSIA

10-3F

Eff 23 Nov

SID



URRR/ROV
ROSTOV-NA-DONU

10 NOV 06

JEPPESEN ROSTOV-NA-DONU, RUSSIA

(10-3G)

Eff 23 Nov

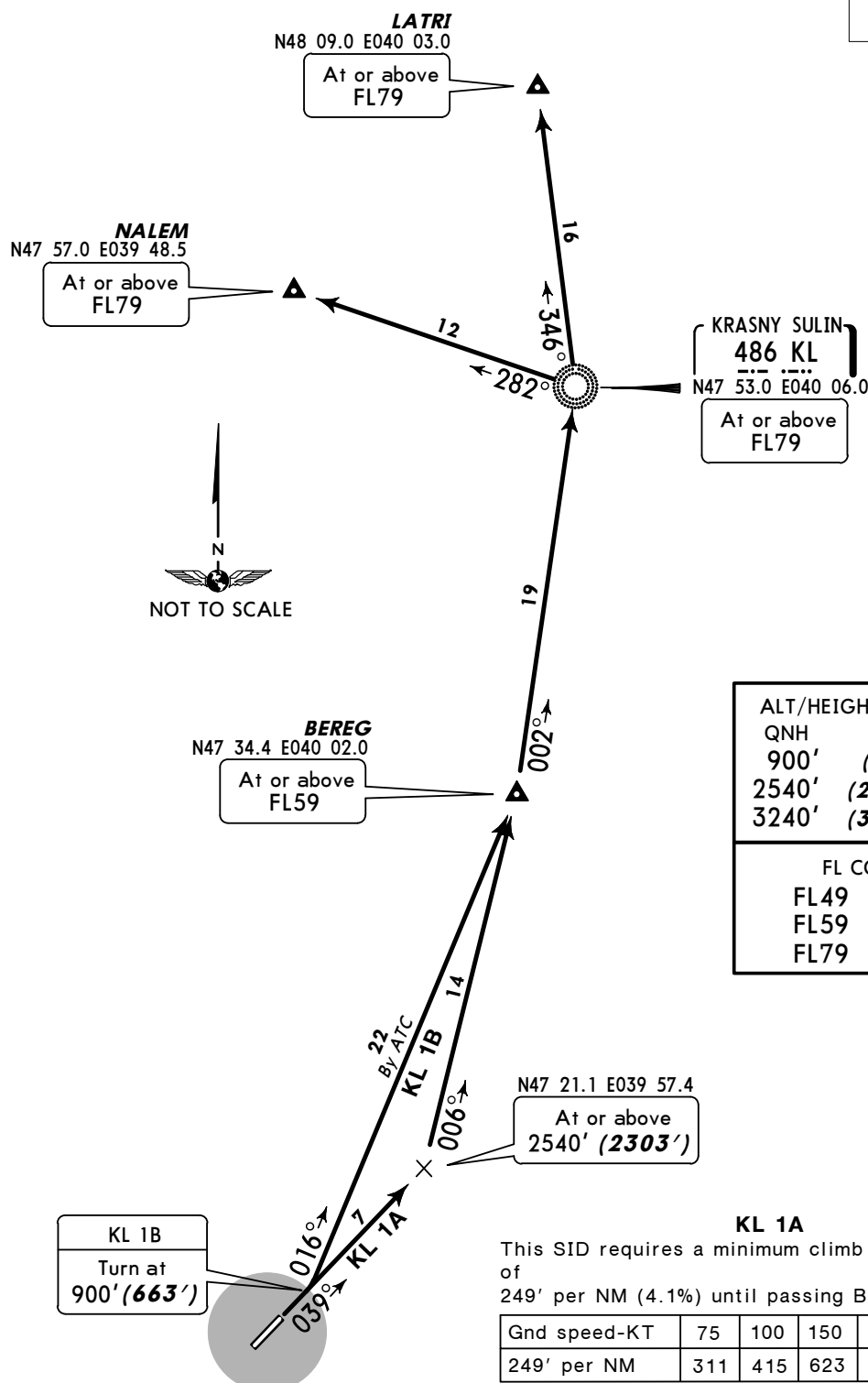
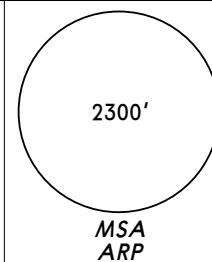
SID

ROSTOV Radar
121.2

Apt Elev
280'

QNH on request (QFE) Trans level: FL49 Trans alt: 3240' (3003')
1. Immediately after take-off and climbing to 900' (663') contact ROSTOV Radar.
2. Crossings at AWY entry points by ATC.

KRASNY SULIN ONE ALFA (KL 1A)
KRASNY SULIN ONE BRAVO (KL 1B)
RWY 04 DEPARTURES

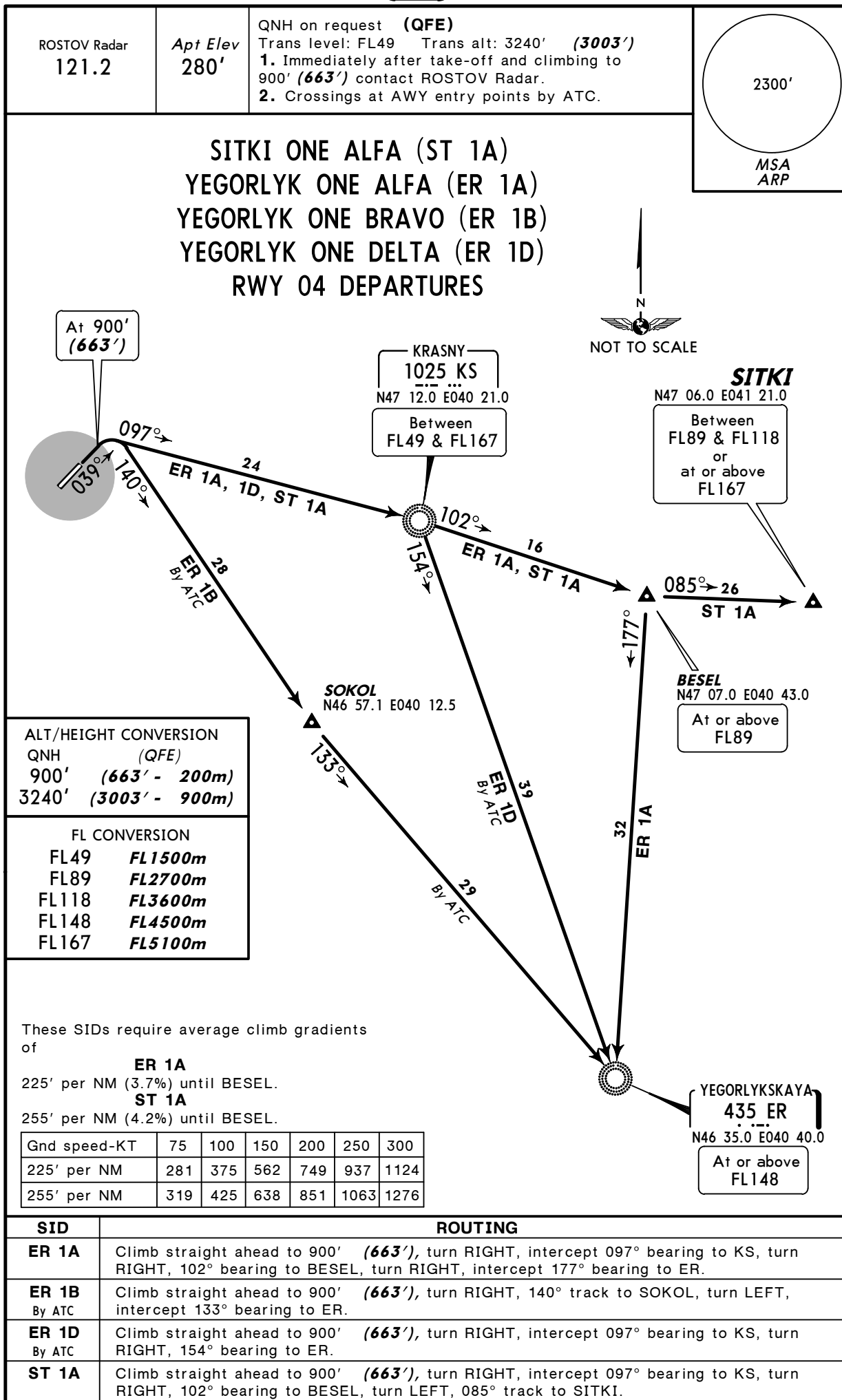


SID	ROUTING
KL 1A	Climb straight ahead, at or above 2540' (2303') turn LEFT, 006° track to BEREK, turn LEFT, intercept 002° bearing to KL.
KL 1B By ATC	Climb straight ahead to 900' (663'), turn LEFT, 016° track to BEREK, turn LEFT, intercept 006° bearing to KL.

URRR/ROV
ROSTOV-NA-DONU

JEPPESEN ROSTOV-NA-DONU, RUSSIA
10 NOV 06 (10-3H) Eff 23 Nov

SID



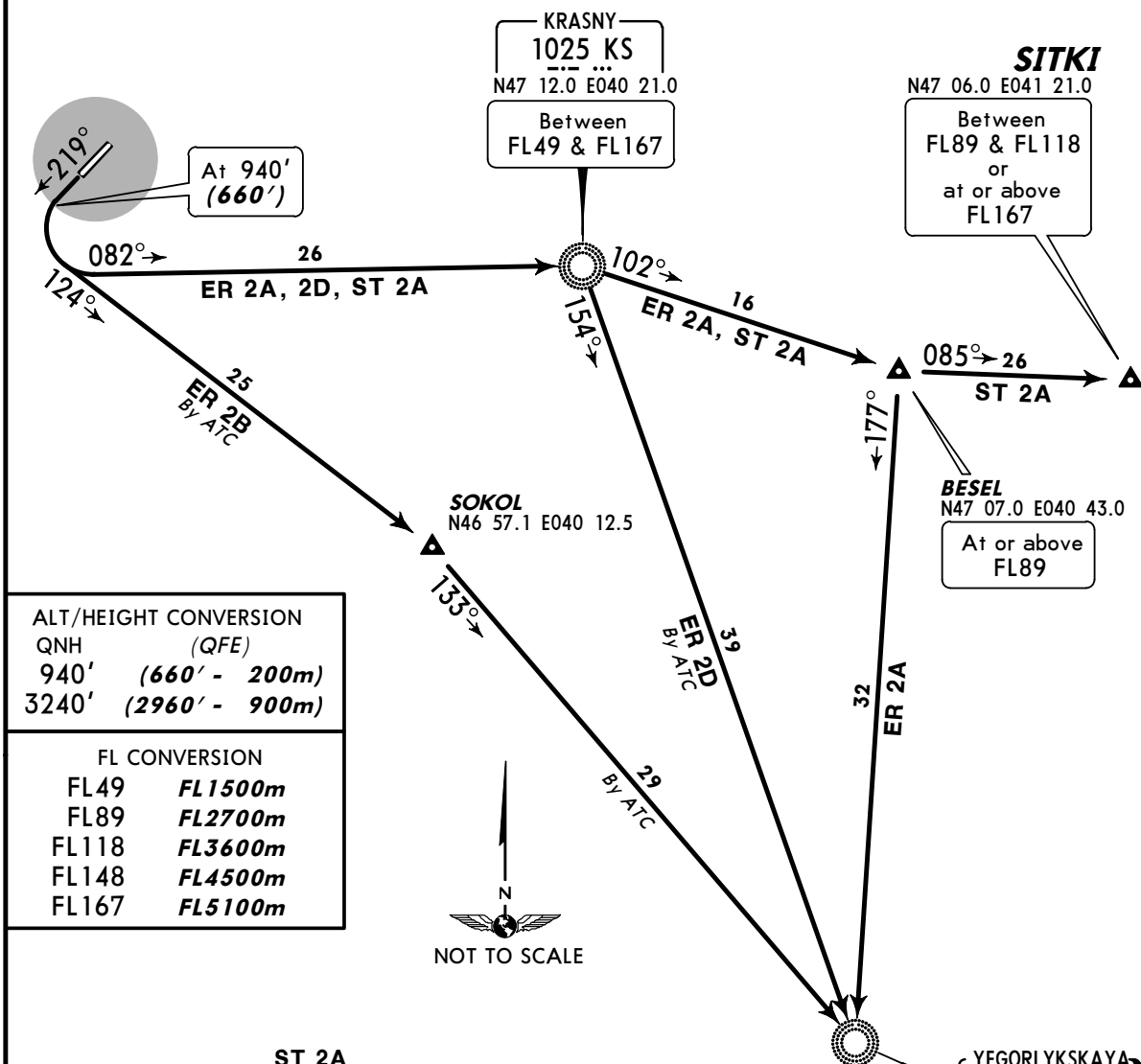
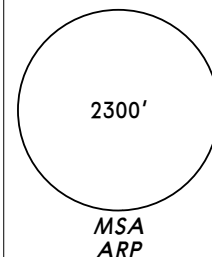
URRR/ROV
ROSTOV-NA-DONU

JEPPESSEN ROSTOV-NA-DONU, RUSSIA
10 NOV 06 (10-3J) Eff 23 Nov

SID

ROSTOV Radar 121.2	Apt Elev 280'	QNH on request (QFE) Trans level: FL49 Trans alt: 3240' (2960') 1. Aircraft should take-off with noise abatement procedures according to Flight Manual. 2. Immediately after take-off and climbing to 940' (660') contact ROSTOV Radar. 3. Crossings at AWY entry points by ATC.
-----------------------	------------------	---

SITKI TWO ALFA (ST 2A)
YEGORLYK TWO ALFA (ER 2A)
YEGORLYK TWO BRAVO (ER 2B)
YEGORLYK TWO DELTA (ER 2D)
RWY 22 DEPARTURES



ALT/HEIGHT CONVERSION
QNH (QFE)
940' (660' - 200m)
3240' (2960' - 900m)

FL CONVERSION
FL49 FL1500m
FL89 FL2700m
FL118 FL3600m
FL148 FL4500m
FL167 FL5100m

ST 2A

This SID requires an average climb gradient of 243' per NM (4%) until BESEL.

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

SID	ROUTING
ER 2A	Climb straight ahead to 940' (660'), turn LEFT, intercept 082° bearing to KS, turn RIGHT, 102° bearing to BESEL, turn RIGHT, intercept 177° bearing to ER.
ER 2B By ATC	Climb straight ahead to 940' (660'), turn LEFT, 124° track to SOKOL, turn RIGHT, intercept 133° bearing to ER.
ER 2D By ATC	Climb straight ahead to 940' (660'), turn LEFT, intercept 082° bearing to KS, turn RIGHT, 154° bearing to ER.
ST 2A	Climb straight ahead to 940' (660'), turn LEFT, intercept 082° bearing to KS, turn RIGHT, 102° bearing to BESEL, turn LEFT, 085° track to SITKI.

URRR/ROV

JEPPESEN

ROSTOV-NA-DONU, RUSSIA

ROSTOV-NA-DONU

18 JUN 04

10-4

NOISE

NOISE ABATEMENT

ARRIVALS

APPROACH PHASE

Noise abatement procedures shall be executed by all aircraft.

If special meteorological conditions are present in arrival and approach sectors, ATS unit may at its own discretion or by a pilot in command's request deviate from the provisions given below, if it is necessary for safety reasons.

Restrictions

During instrument as well as visual approach flying below the ILS glide path angle is not allowed.

Between 2300-0700LT when appropriate meteorological and air conditions are available, landing shall be carried out on runway 22.

Landing with a tail wind component is allowed when tail wind component is according to norms established in Flight Manual for specified aircraft type.

DEPARTURES

TAKE-OFF AND CLIMBING PHASE

Noise abatement procedures shall be executed by all aircraft during take-off on 219° heading.

Noise abatement procedures shall not be executed at the expense of reduction of flight safety and in case of engine failure during take-off, wind shear, moderate turbulence or icing.

Restrictions

Take-off with a tail wind component is allowed when tail wind component is according to norms established in Flight Manual for specified aircraft type.

During take-off rwy 04 on 039° heading and exit from TMA via BEREG climbing shall be carried out with a minimum climb gradient of 346' per NM (5.7%) to N47 26.6 E040 00.3 (034° 13.6 NM from ARP), further climb to BEREG shall be carried out with a minimum climb gradient of 231' per NM (3.8%). If unable to comply advise ATC. Alternative procedure to BEREG: along right-hand loop with a minimum radius of 2.75 NM. The initial turn shall be executed at 2210' (1973').

During take-off rwy 22 on 219° heading and exit from TMA by executing a LEFT turn, climbing straight ahead to 3240' (2960') shall be carried out with a minimum climb gradient of 310' per NM (5.1%) but not later than 9.5 NM from THR runway 04.

During take-off rwy 22 on 219° heading and proceeding with RIGHT turn to SLAVA the initial turn shall be carried out at or above 2250' (1970') and not later than 6.4 NM from THR runway 04 with a minimum turn radius of 2.65 NM.

Special procedures on take-off rwy 22 heading 219°

Take-off and climbing to 1760' (1480')

Take-off power

Take-off flaps

V₂ + 11 to 22 KT

At 1760' (1480')

At or above 940' (660') turn with 25° bank

Reduce engine power to a minimum while maintaining positive rate of climb

Between 1760' (1480') - 3240' (2960')

V₂ + 11 to 22 KT

At 3240' (2960')

Accelerate to IAS of wing devices retraction

Retract wing devices

Further climb as per Flight Manual

Between 2300-0700LT when appropriate meteorological and air conditions are available, take-off shall be carried out on runway 04 and landing on runway 22.

URRR/ROV

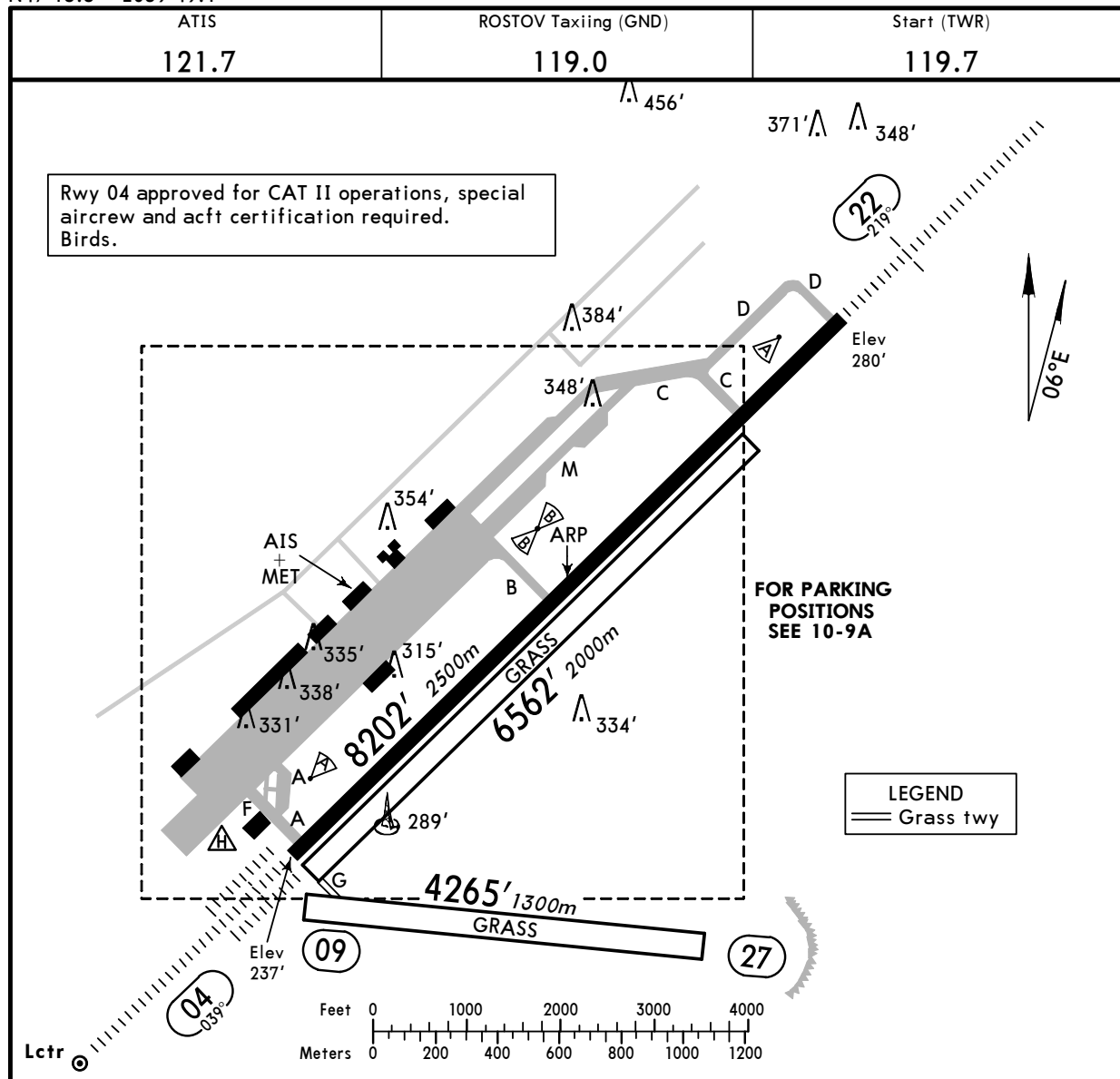
Apt Elev **280'**
N47 15.5 E039 49.1

JEPPESEN

27 APR 07 (10-9)

ROSTOV-NA-DONU, RUSSIA

ROSTOV-NA-DONU



ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS			WIDTH
		Threshold	Landing Beyond	TAKE-OFF	
04	HIRL (60m) CL (15m) HIALS-II TDZ ① RVR		7169' 2185m		148'
22	HIRL (60m) CL (15m) HIALS ① RVR		7333' 2235m		45m
04	Grass runway				246'
22					75m
09					279'
27					85m

① PAPI-L (angle 2.67°)

LOW VISIBILITY PROCEDURES

Procedures are applied when RVR is less than 400m.

After landing, pilots must report vacated of the runway and ILS critical area.

TAKE-OFF

AIR CARRIER (JAA)

Main rwy 04/22

LVP must be in force

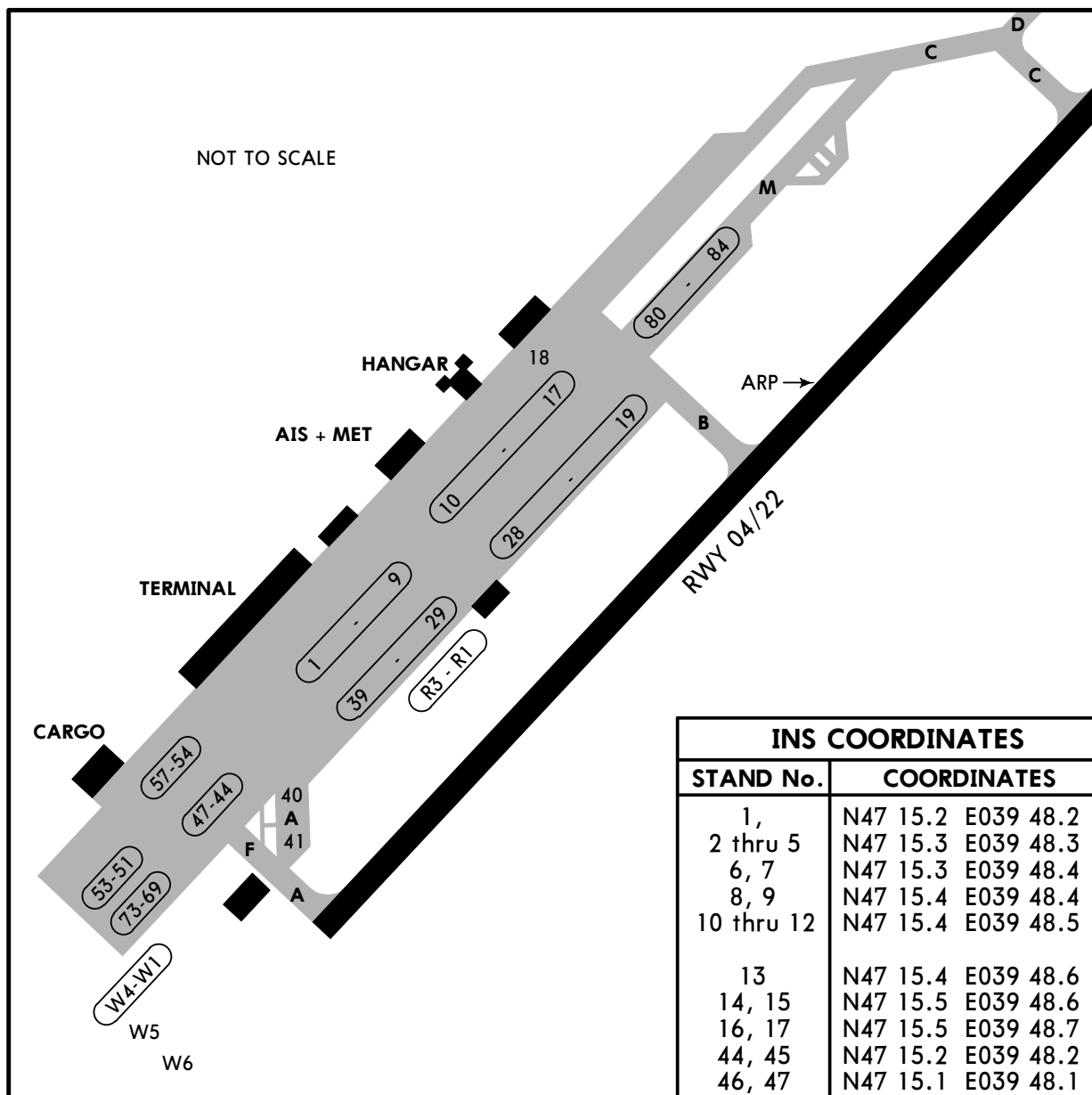
	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL
A			
B	200m (150m)	250m	400m
C			
D	250m (200m)	300m	

URRR/ROV

27 APR 07 **JEPPESEN**
(10-9A)

ROSTOV-NA-DONU, RUSSIA

ROSTOV-NA-DONU



When leaving stands 1, 2 and 44 thru 47 by towing start-up to be carried out on Twys A, F or on apron in front of stands 29 thru 39.

Stands 16 thru 28 are cul-de-sacs.

Stands 16 thru 18: Enter/exit by towing.

Stands 19 thru 28 and 80 thru 84: Enter by towing.

Stands 51 thru 53, 69 thru 73 and W1 thru W6 available for helicopters.

Stands 54 thru 57: Exit by towing.

Taxiing via Twys B, C, M and along apron shall be carried out along twy centerline at minimum speed.

Taxiing along Twy B with inboard engines only.

Taxiing of acft with a wingspan more than 125'/38m and diameter of the main rotor more than 85'/26m from stand 3 to Twy B, along Twy M from Twy B to Twy D is prohibited.

URRR/ROV


JEPPESEN
 20 MAR 09 **10-9S**
Standard
ROSTOV-NA-DONU, RUSSIA
 ROSTOV-NA-DONU

STRAIGHT-IN RWY		A	B	C	D
04	CAT 2 ILS	337' (100')	337' (100')	337' (100')	337' (100')
		RA 110' R350m	RA 110' R350m	RA 110' R350m	RA 110' R350m
	ILS	437' (200')	437' (200')	437' (200')	437' (200')
	<i>FULL</i>	R550m	R550m	R550m	R550m
	<i>Limited</i>	R750m	R750m	R750m	R750m
	<i>ALS out</i>	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	2 NDB ①②	610' (373')	610' (373')	610' (373')	610' (373')
		R1000m	R1000m	R1200m	R1200m
	<i>ALS out</i>	R1700m	R1700m	R1700m	R1700m
	2 NDB ①③	650' (413')	650' (413')	650' (413')	650' (413')
		R1200m	R1200m	R1200m	R1200m
	<i>ALS out</i>	R1900m	R1900m	R1900m	R1900m
	RN NDB ①③	730' (493')	730' (493')	730' (493')	730' (493')
		R1500m	R1500m	R1500m	R1500m
	<i>ALS out</i>	C2300m	C2300m	C2300m	C2300m
	N Lctr ①②	850' (613')	850' (613')	850' (613')	850' (613')
		C2100m	C2100m	C2100m	C2100m
	<i>ALS out</i>	C2800m	C2800m	C2800m	C2800m
	N Lctr ①③	1400' (1163')	1400' (1163')	1400' (1163')	1400' (1163')
22		C4600m	C4600m	C4600m	C4600m
	<i>ALS out</i>	C5000m	C5000m	C5000m	C5000m
	ILS	480' (200')	480' (200')	480' (200')	480' (200')
	<i>FULL</i>	R550m	R550m	R550m	R550m
	<i>Limited</i>	R750m	R750m	R750m	R750m
	<i>ALS out</i>	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	2 NDB ①	740' (460')	740' (460')	740' (460')	740' (460')
		R1400m	R1400m	R1400m	R1400m
	<i>ALS out</i>	C2100m	C2100m	C2100m	C2100m
	RW NDB ①③	790' (510')	790' (510')	790' (510')	790' (510')
		R1600m	R1600m	R1600m	R1600m
	<i>ALS out</i>	C2400m	C2400m	C2400m	C2400m
	W Lctr ①②	790' (510')	790' (510')	790' (510')	790' (510')
		R1600m	R1600m	R1600m	R1600m
	<i>ALS out</i>	C2400m	C2400m	C2400m	C2400m
	W Lctr ①③	1070' (790')	1070' (790')	1070' (790')	1070' (790')
		C2900m	C2900m	C2900m	C2900m
	<i>ALS out</i>	C3600m	C3600m	C3600m	C3600m

① Continuous Descent Final Approach

② with FAF.

③ w/o FAF.

TAKE-OFF RWY 04, 22

	Approved Operators HIRL, CL & mult. RVR req	LVP must be in Force				RCLM (DAY only) or RL	NIL (DAY only)
		RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL		
A	125m	150m	200m	250m	400m		500m
B							
C							
D	150m	200m	250m	300m			

CHANGES: New page.

© JEPPESEN, 2009. ALL RIGHTS RESERVED.

URRR/ROV

JEPPESEN

JAA MINIMUMS

22 JUN 07
Eff 5 Jul

(10-9X)

ROSTOV-NA-DONU, RUSSIA
ROSTOV-NA-DONU

STRAIGHT-IN RWY		A	B	C	D
04	CAT 2 ILS	337'(100')	337'(100')	337'(100')	337'(100')
		RA 110' R350m	RA 110' R350m	RA 110' R350m	RA 110' R350m
	ILS	437'(200')	437'(200')	437'(200')	437'(200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	2 NDB with FAF	610'(373')	610'(373')	610'(373')	610'(373')
	2 NDB w/o FAF	650'(413')	650'(413')	650'(413')	650'(413')
	ALS out	R900m	R1000m	R1000m	R1400m
		R1500m	R1500m	R1800m	R2000m
22	RN NDB w/o FAF	730'(493')	730'(493')	730'(493')	730'(493')
		R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m
	N Lctr with FAF	850'(613')	850'(613')	850'(613')	850'(613')
		R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m
	N Lctr w/o FAF	1400'(1163')	1400'(1163')	1400'(1163')	1400'(1163')
		R1200m	R1400m	R1400m	R1800m
	ALS out	R1500m	R1500m	R2000m	R2000m
	ILS	480'(200')	480'(200')	480'(200')	480'(200')
	ALS out	R550m	R550m	R550m	R550m
		R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	2 NDB	740'(460')	740'(460')	740'(460')	740'(460')
		R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m
	RW NDB w/o FAF	790'(510')	790'(510')	790'(510')	790'(510')
		R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m
	W Lctr with FAF	790'(510')	790'(510')	790'(510')	790'(510')
		R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m
	W Lctr w/o FAF	1070'(790')	1070'(790')	1070'(790')	1070'(790')
		R1200m	R1400m	R1400m	R1800m
	ALS out	R1500m	R1500m	R2000m	R2000m

TAKE-OFF RWY 04, 22

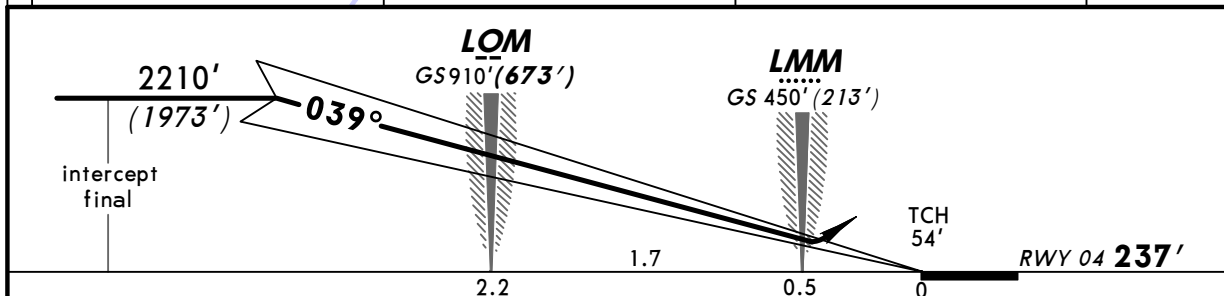
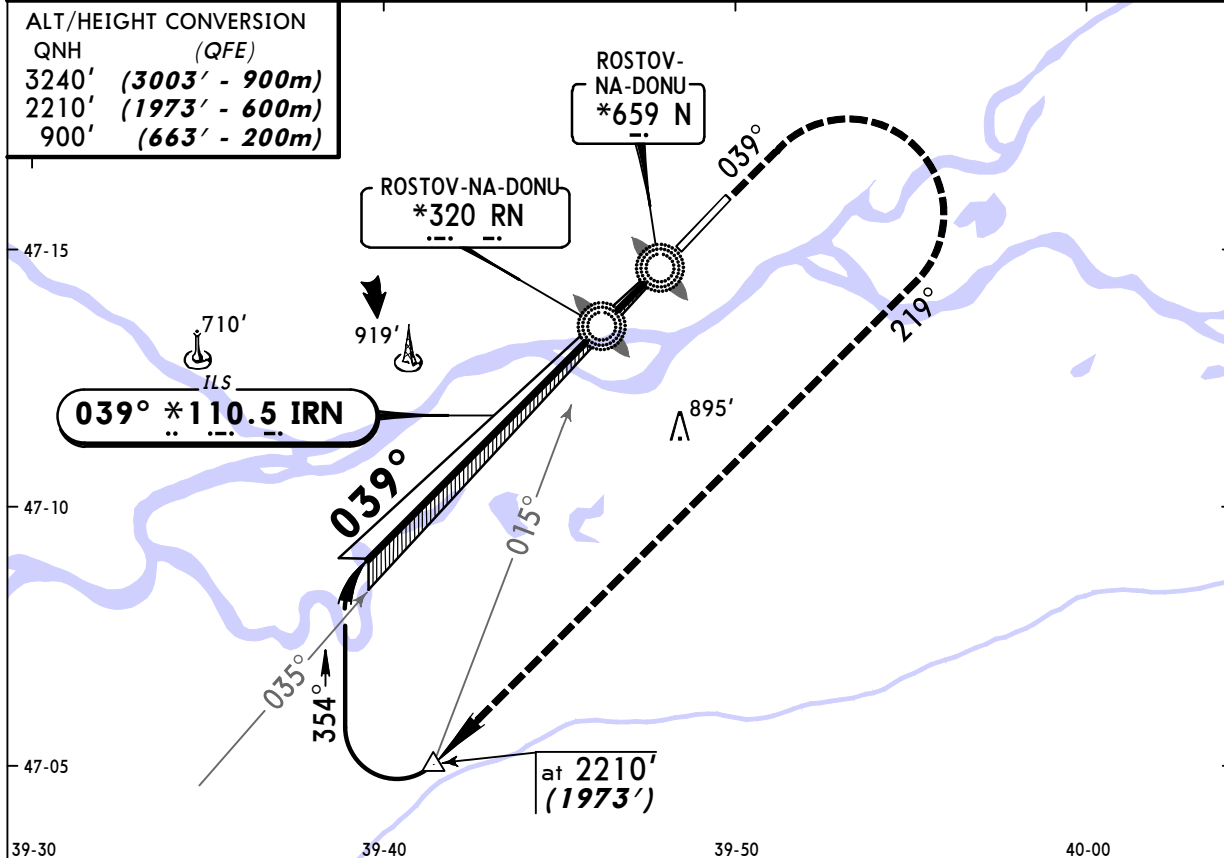
LVP must be in Force				
RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A				
B	150m	200m	250m	400m
C				500m
D	200m	250m	300m	

URRR/ROV
ROSTOV-NA-DONU

JEPPESSEN ROSTOV-NA-DONU, RUSSIA
22 JUN 07 (11-1) Eff 5 Jul ILS Rwy 04

BRIEFING STRIP

ATIS		ROSTOV Approach		ROSTOV Radar		ROSTOV Tower/Start (TWR)		Ground	
121.7		128.2		121.2		119.7		119.0	
LOC IRN *110.5		Final Apch Crs 039°		GS LOM 910'(673')		ILS DA(H) 437'(200')		Apt Elev 280' RWY 237'	
MISSED APCH: Climb on 039° to 900'(663'), then turn RIGHT onto 219° climbing to 2210'(1973'), then according to chart. When reaching 900' (663') contact immediately ROSTOV Radar.								2300' MSA Airport	
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 49		Trans alt: 3240' (3003')			
Increased turbulence and windshear may be expected on final.									



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	900' (663')	on 039°	219°	2210' (1973')
ILS GS	2.67°	336	433	481	577	673	769			RT	

STRAIGHT-IN LANDING RWY 04						
ILS			LOC (GS out)			
DA(H) 437'(200')						
FULL	TDZ or CL out	ALS out				
A	RVR 550m VIS 800m	RVR 720m VIS 800m	1200m	NOT AUTHORIZED		
B						
C						
D						

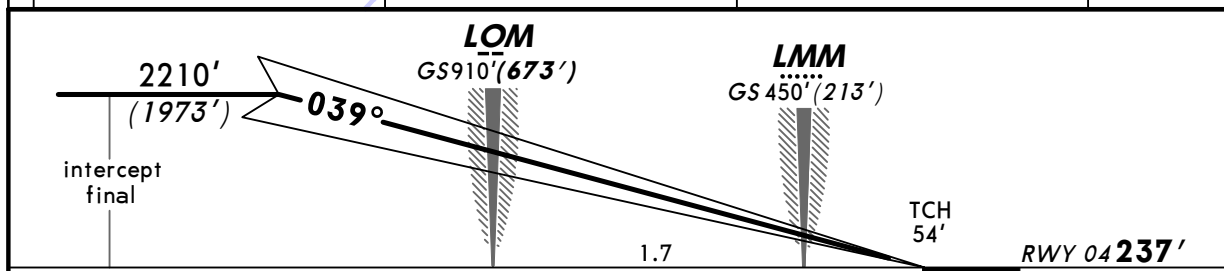
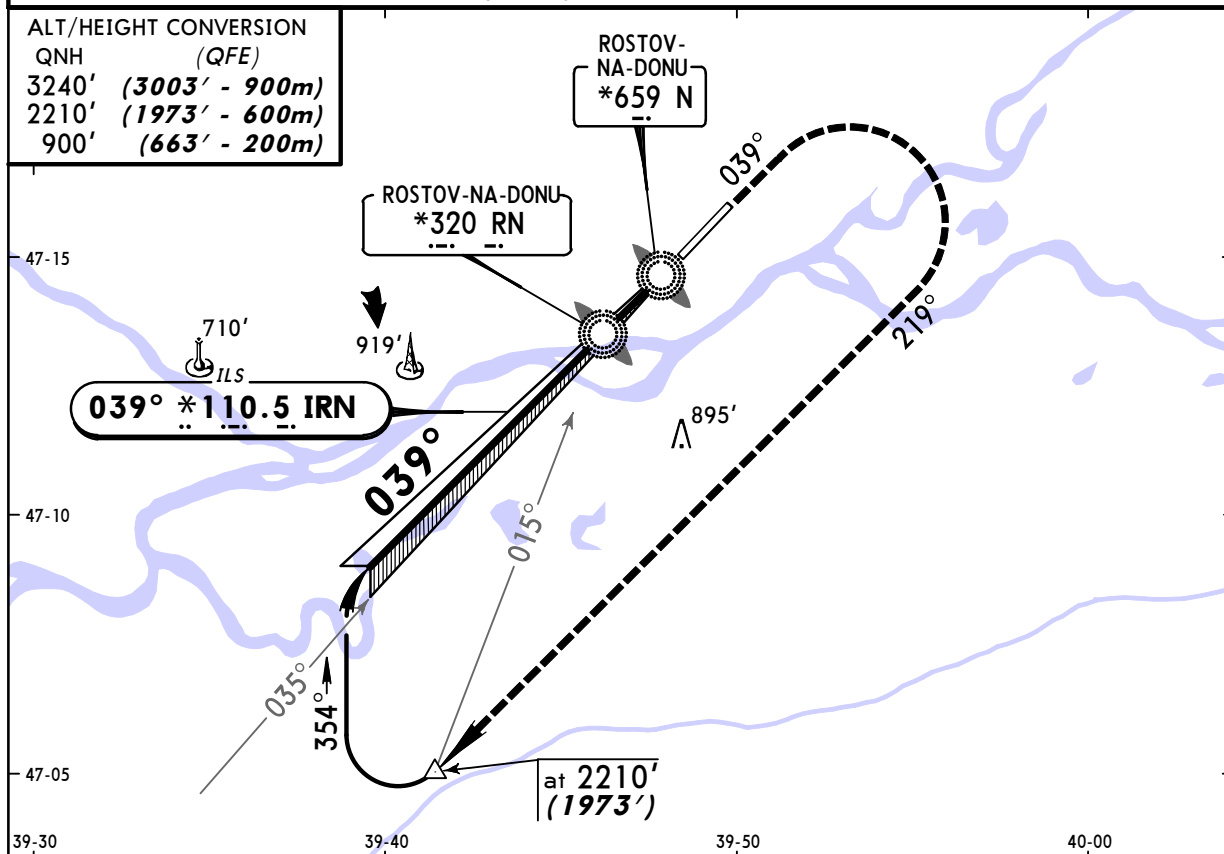
PANS OPS

URRR/ROV
ROSTOV-NA-DONU

JEPPESEN ROSTOV-NA-DONU, RUSSIA
22 JUN 07 **11-1A** Eff 5 Jul CAT II ILS Rwy 04

BRIEFING STRIP

ATIS 121.7	ROSTOV Approach 128.2	ROSTOV Radar 121.2	ROSTOV Tower/Start (TWR) 119.7	Ground 119.0
LOC IRN *110.5	Final Apch Crs 039°	GS LOM 910' (673')	CAT II ILS RA 110' DA(H) 337' (100')	Apt Elev 280' RWY 237'
MISSED APCH: Climb on 039° to 900' (663') , then turn RIGHT onto 219° climbing to 2210' (1973') , then according to chart. When reaching 900' (663') contact immediately ROSTOV Radar.				2300' MSA Airport
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 49 Trans alt: 3240' (3003') 1. Special Aircrew & Acft Certification Required. 2. Increased turbulence and windshear may be expected on final.				



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	900' (663') on 039°	219° RT	2210' (1973')
GS	2.67°	336	433	481	577	673	769			

STRAIGHT-IN LANDING RWY 04 CAT II ILS										
ABCD RA 110' DA(H) 337' (100')										
RVR 350m										

PANS OPS

URRR/ROV ROSTOV-NA-DONU

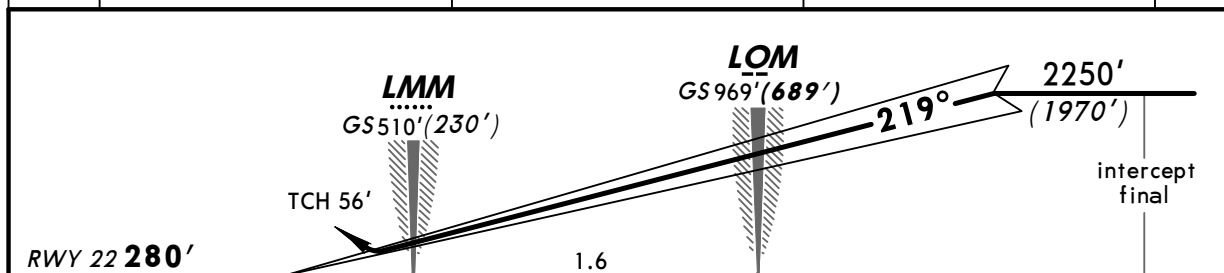
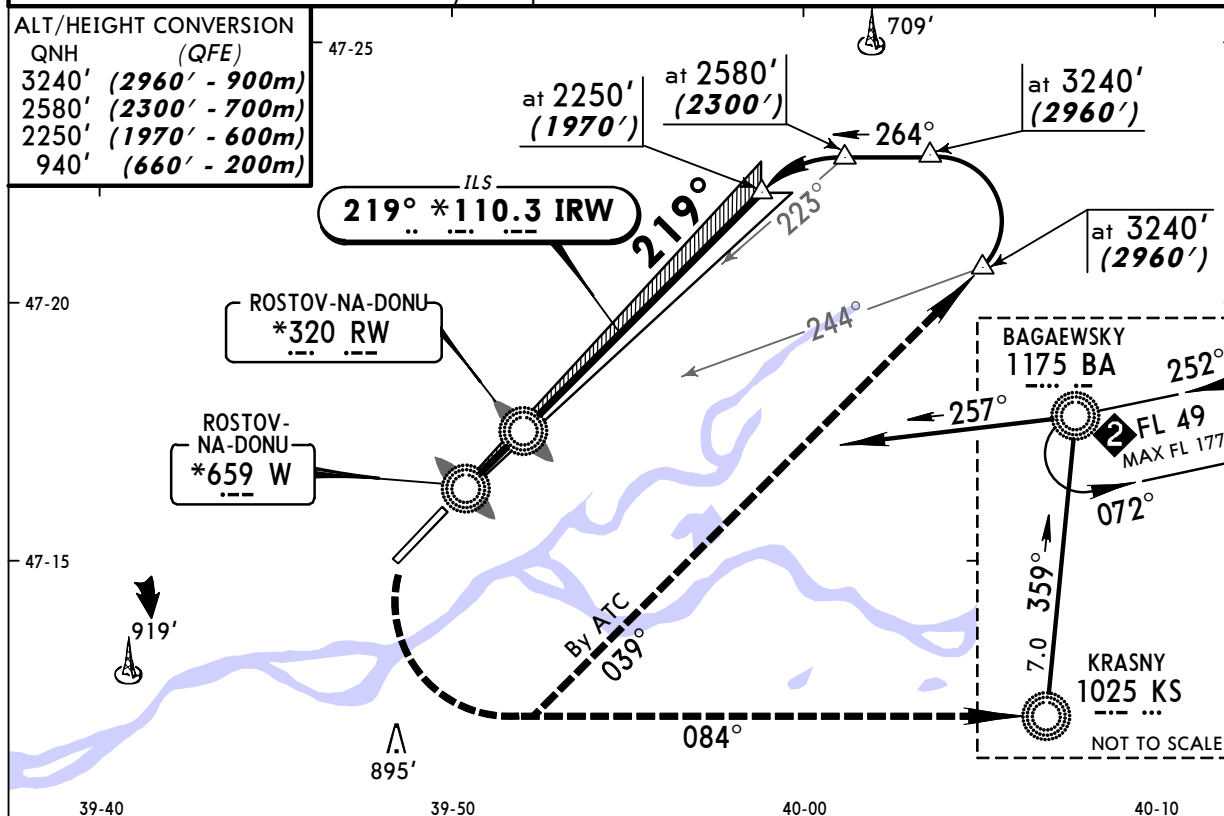
JEPPESEN ROSTOV-NA-DONU, RUSSIA
22 JUN 07 (11-2) Eff 5 Jul ILS Rwy 22

BRIEFING STRIP

ATIS	ROSTOV Approach	ROSTOV Radar	ROSTOV Tower/Start (TWR)	Ground
121.7	128.2	121.2	119.7	119.0
LOC IRW *110.3	Final Apch Crs 219°	GS LOM 969' (689')	ILS DA(H) 480' (200') Apt Elev 280' RWY 280'	2300' MSA Airport
MISSED APCH: Climb to 940' (660'), then turn LEFT onto 084° to KS NDB climbing to 2250' (1970'), then as directed. By ATC: Climb to 940' (660'), then turn LEFT onto 039° climbing to 3240' (2960'). When reaching 940' (660') contact immediately ROSTOV Radar.				
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 49
Increased turbulence and windshear may be expected on final.		Trans alt: 3240' (2960')		

ALT/HEIGHT CONVERSION

QNH	(QFE)
3240' (2960' - 900m)	
2580' (2300' - 700m)	
2250' (1970' - 600m)	
940' (660' - 200m)	



Gnd speed-Kts	70	90	100	120	140	160	HIALS	940' (660')	084°	2250' (1970')	KS 1025
ILS GS	2.67°	336	433	481	577	673	769		LT		

STRAIGHT-IN LANDING RWY 22			
ILS		LOC (GS out)	
DA(H) 480' (200')			
FULL	ALS out		
A			
B			
C	RVR 720m VIS 800m	1200m	NOT AUTHORIZED
D			

PANS OPS

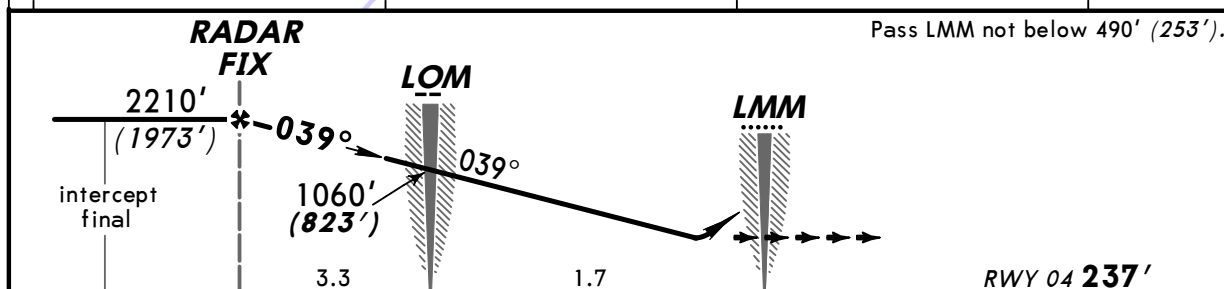
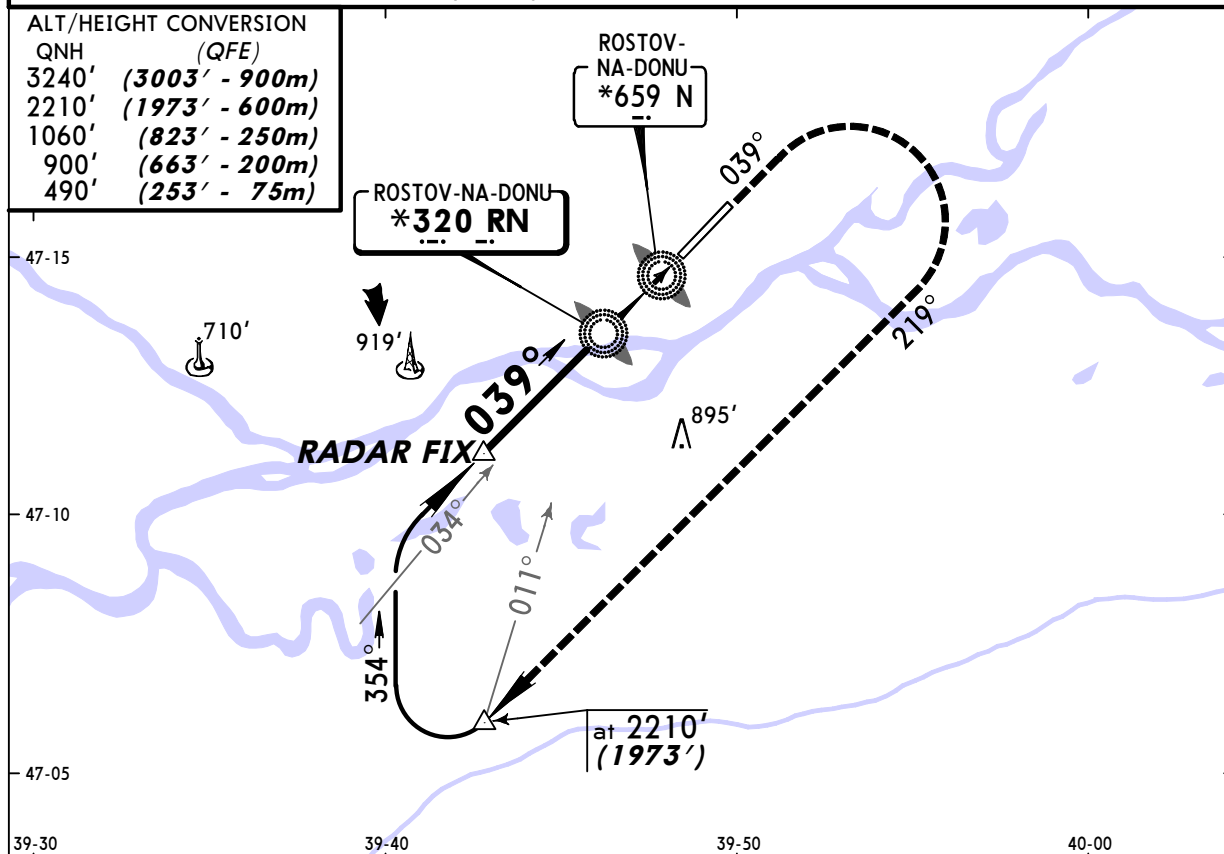
URRR/ROV
ROSTOV-NA-DONU

22 JUN 07
Eff 5 Jul (16-1)

ROSTOV-NA-DONU, RUSSIA
2 NDB or NDB Rwy 04

BRIEFING STRIP

ATIS	ROSTOV Approach	ROSTOV Radar	ROSTOV Tower/Start (TWR)	Ground
121.7	128.2	121.2	119.7	119.0
NDB RN *320	Final Apch Crs 039°	Minimum Alt LOM 1060' (823')	MDA(H) Refer to Minimums Apt Elev 280' RWY 237'	2300'
MISSED APCH: Climb on 039° to 900' (663'), then turn RIGHT onto 219° climbing to 2210' (1973'), then according to chart. When reaching 900' (663') contact immediately ROSTOV Radar.				MSA Airport
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 49
Increased turbulence and windshear may be expected on final.		Trans alt: 3240' (3003')		



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	900' (663') on 039°	219° RT	2210' (1973')
Descent Gradient	5.8%	411	529	587	705	822	940			

STRAIGHT-IN LANDING RWY 04									
2 NDB		RN NDB		N Lctr					
With FAF MDA(H)	W/o FAF MDA(H)	With FAF MDA(H)	W/o FAF MDA(H)	With FAF MDA(H)	W/o FAF MDA(H)	With FAF MDA(H)	W/o FAF MDA(H)	With FAF MDA(H)	W/o FAF MDA(H)
610' (373')	650' (413')	730' (493')	730' (493')	850' (613')	850' (613')	1400' (1163')	1400' (1163')	1400' (1163')	1400' (1163')
ALS out	ALS out	ALS out	ALS out	ALS out	ALS out	ALS out	ALS out	ALS out	ALS out
A									
B	1200m	RVR 1500m VIS 1600m	1200m	RVR 1500m VIS 1600m	1500m	2300m	2100m	2900m	3200m
C									
D	RVR 1500m VIS 1600m	RVR 1800m VIS 2000m	RVR 1500m VIS 1600m	RVR 1800m VIS 2000m	RVR 1800m VIS 2000m	2400m	2800m	3200m	4400m

PANS OPS

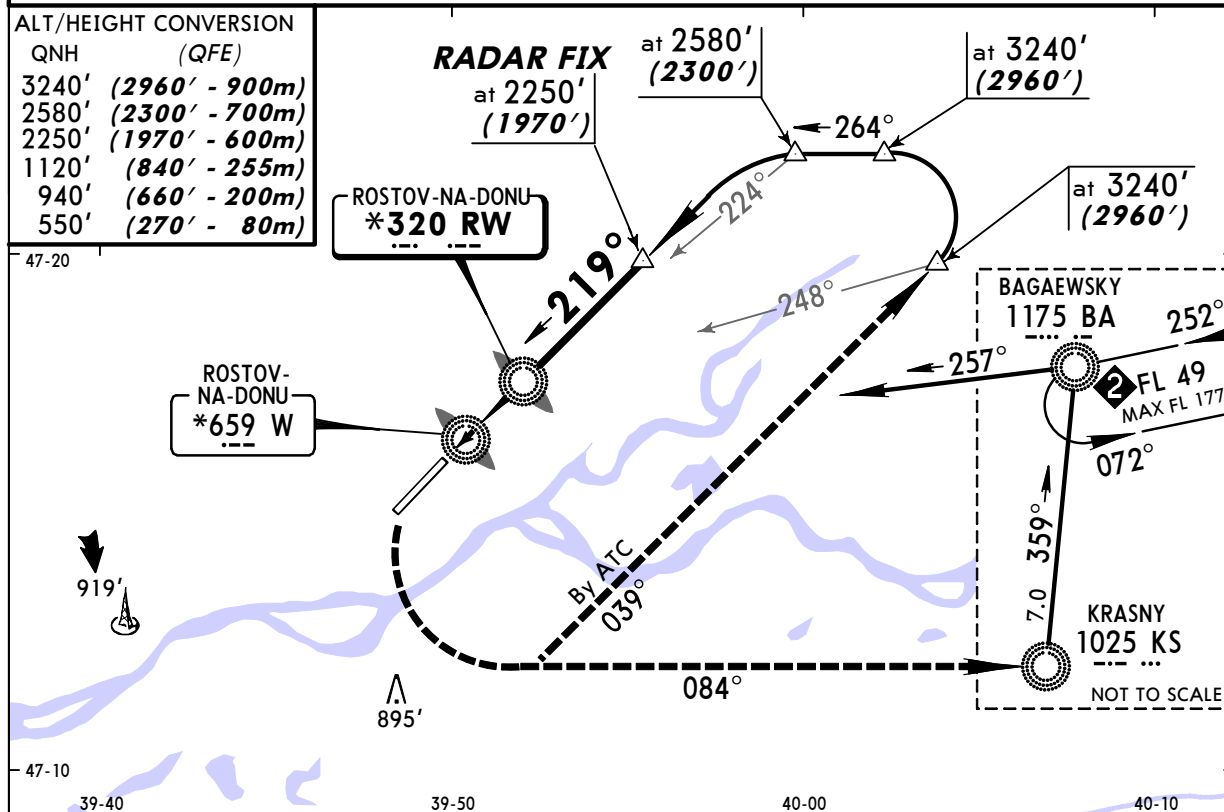
URRR/ROV
ROSTOV-NA-DONU

22 JUN 07
Eff 5 Jul (16-2)

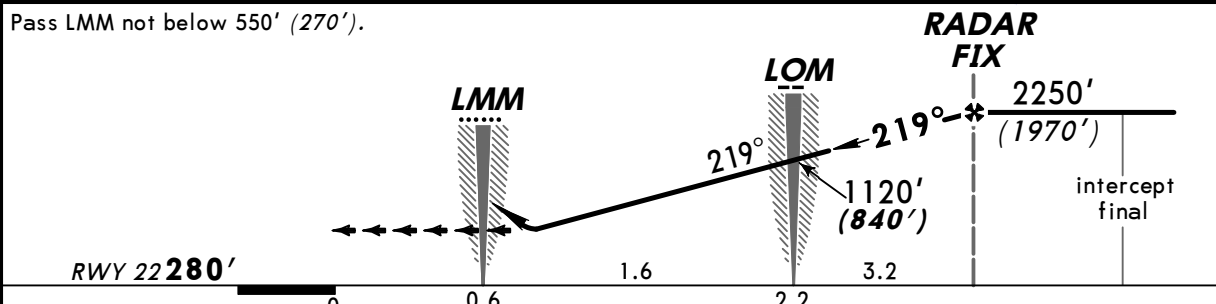
JEPPESEN ROSTOV-NA-DONU, RUSSIA
2 NDB or NDB Rwy 22

BRIEFING STRIP

ATIS 121.7	ROSTOV Approach 128.2	ROSTOV Radar 121.2	ROSTOV Tower/Start (TWR) 119.7	Ground 119.0
NDB RW *320	Final Apc Crs 219°	Minimum Alt LOM 1120' (840')	MDA(H) Refer to Minimums Apt Elev 280' RWY 280'	2300' MSA Airport
MISSED APCH: Climb to 940' (660'), then turn LEFT onto 084° to KS NDB climbing to 2250' (1970'), then as directed. By ATC: Climb to 940' (660'), then turn LEFT onto 039° climbing to 3240' (2960'). When reaching 940' (660') contact immediately ROSTOV Radar.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 49 Trans alt: 3240' (2960') Increased turbulence and windshear may be expected on final.				



Pass LMM not below 550' (270').



Gnd speed-Kts	70	90	100	120	140	160	HIALS	940' (660')	084°	2250' (1970')	KS 1025
Descent Gradient	5.8%	411	529	587	705	822	940		LT		

PANS OPS

2 NDB		RW NDB W/o FAF		With FAF		W Lctr	
MDA(H) 740' (460')		MDA(H) 790' (510')		MDA(H) 790' (510')		MDA(H) 1070' (790')	
ALS out		ALS out		ALS out		ALS out	
A							
B	1200m	RVR 1800m VIS 2000m	1500m	2300m	1500m	2300m	3200m
C			RVR 1500m VIS 1600m	2400m	RVR 1500m VIS 1600m	2400m	3200m 3800m
D	RVR 1800m VIS 2000m	2400m	RVR 1800m VIS 2000m		RVR 1800m VIS 2000m		3600m 4000m