

URMT/STW
 SHPAKOVSKOYE

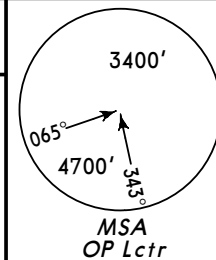
JEPPESEN
 14 SEP 07 10-2 Eff 27 Sep

STAVROPOL, RUSSIA
 STAR

Apt Elev
 1486'

Alt Set: MM (hPa on request) QNH on request
 Trans level: FL49 Trans alt: 3460' (1974')

(QFE)



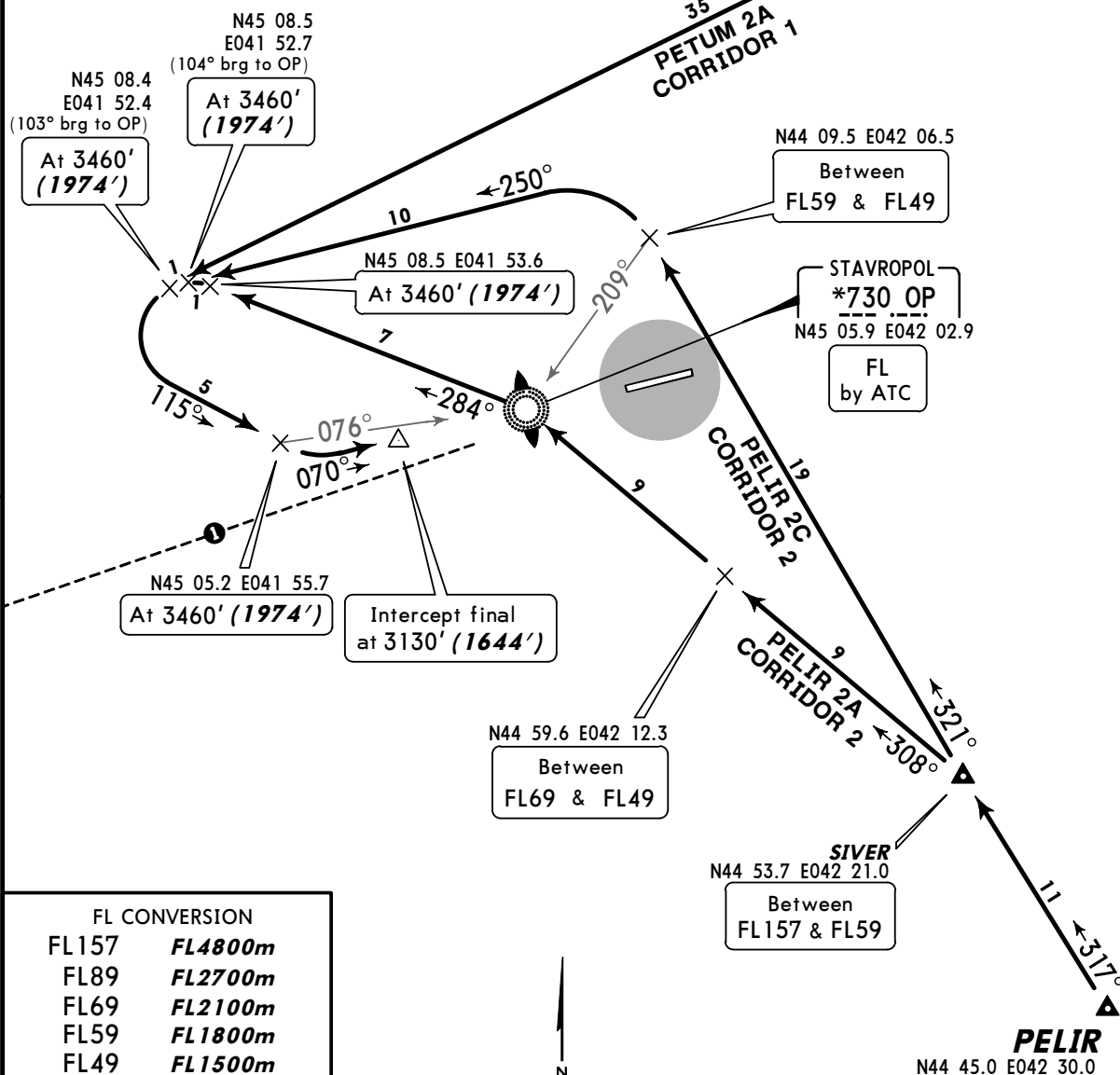
PELIR 2A [PELI2A]
 PELIR 2C [PELI2C]
 PETUM 2A [PETU2A]

RWY 07 ARRIVALS
 FROM NORTHEAST & SOUTHEAST
 FOR STARS WITHOUT RADAR CONTROL
 REFER TO CHART 10-2D

PETUM
 N45 24.0 E042 37.0

Between
 FL157 & FL59

① 065° to ARP between 16.2 NM
 and 4.3 NM do not fly south
 below FL89.



FL CONVERSION	
FL157	FL4800m
FL89	FL2700m
FL69	FL2100m
FL59	FL1800m
FL49	FL1500m

ALT/HEIGHT CONVERSION	
QNH	(QFE)
3460'	(1974' - 600m)
3130'	(1644' - 500m)



URMT/STW
SHPAKOVSKOYE

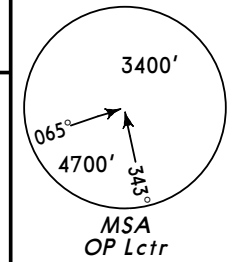
JEPPESEN
14 SEP 07 **10-2A** Eff 27 Sep

STAVROPOL, RUSSIA

STAR

Apt Elev
1486'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL49 Trans alt: 3460' (1974')



NETMI 2A [NETM2A]
PARAT 2A [PARA2A]
RWY 07 ARRIVALS

FROM NORTHWEST
FOR STARS WITHOUT RADAR CONTROL
REFER TO CHART 10-2E

PARAT
N45 32.0 E041 43.0
Between
FL148 & FL49

160°
PARAT 2A
CORRIDOR 3
25

FL CONVERSION	
FL148	FL4500m
FL108	FL3300m
FL89	FL2700m
FL69	FL2100m
FL49	FL1500m

ALT/HEIGHT CONVERSION	
QNH	(QFE)
3460'	(1974' - 600m)
3130'	(1644' - 500m)

NETMI
N45 15.3 E041 28.9
Between
FL108 & FL49

112°
6
NETMI 2A
CORRIDOR 4

N45 12.3 E041 37.0
Between
FL69 & FL49

- Available if no flight activity at Armavir AD.
- 065° to ARP between 16.2 NM and 4.3 NM do not fly south below FL89.

N45 07.3 E041 51.6
At 3460' (1974')

STAVROPOL
*730 OP
N45 05.9 E042 02.9

N45 05.2 E041 55.7
At 3460' (1974')

Intercept final
at 3130' (1644')



URMT/STW
SHPAKOVSKOYE

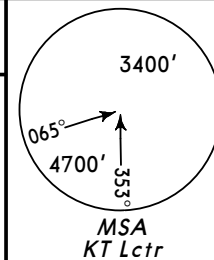
JEPPESEN
14 SEP 07 (10-2B) Eff 27 Sep

STAVROPOL, RUSSIA

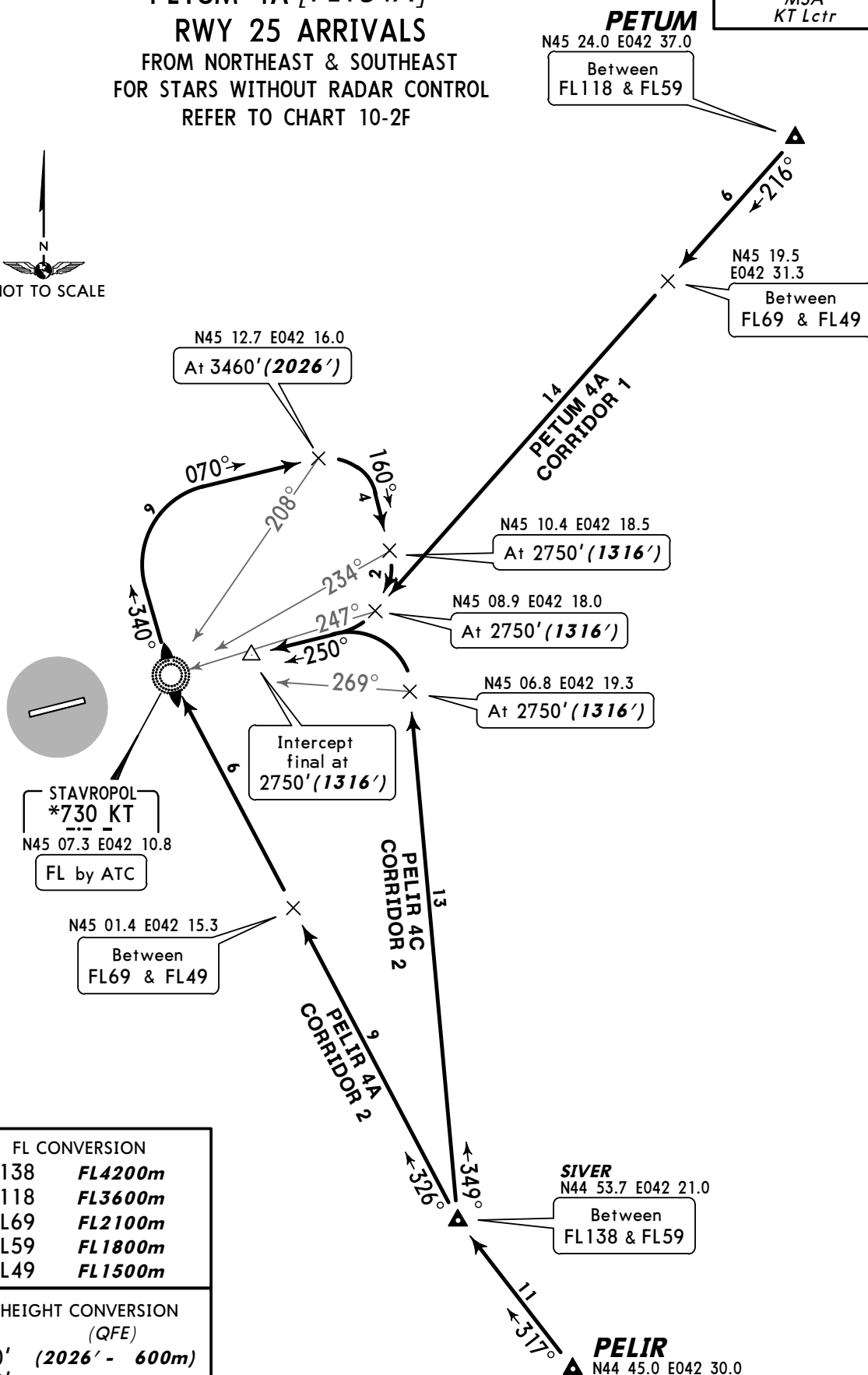
STAR

Apt Elev
1486'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL49 Trans alt: 3460' (2026')



PELIR 4A [PELI4A]
PELIR 4C [PELI4C]
PETUM 4A [PETU4A]
RWY 25 ARRIVALS
FROM NORTHEAST & SOUTHEAST
FOR STARS WITHOUT RADAR CONTROL
REFER TO CHART 10-2F



FL CONVERSION	
FL138	FL4200m
FL118	FL3600m
FL69	FL2100m
FL59	FL1800m
FL49	FL1500m

ALT/HEIGHT CONVERSION	
QNH	(QFE)
3460'	(2026' - 600m)
2750'	(1316' - 400m)

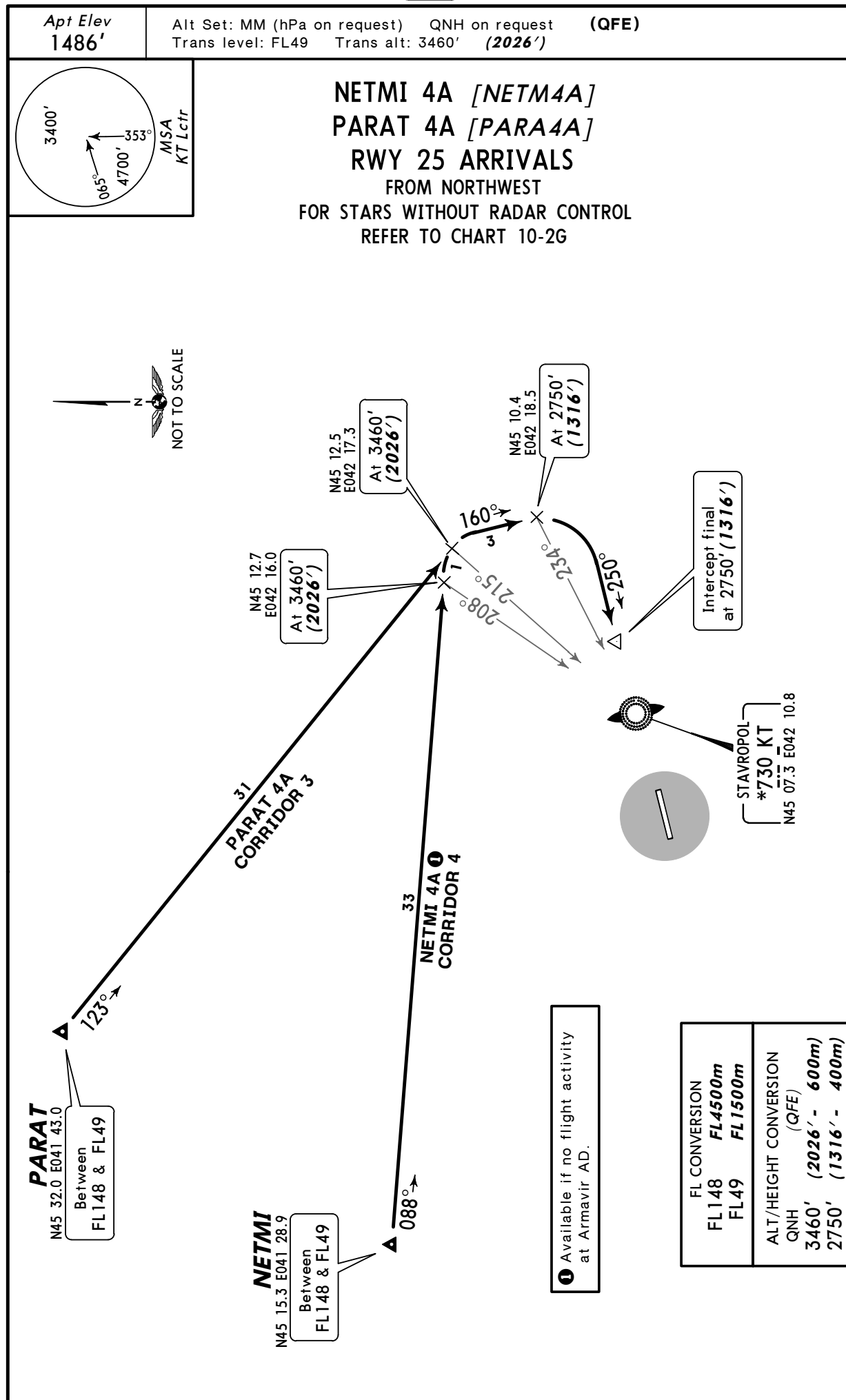
CHANGES: STARS completely revised.

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URMT/STW
 SHPAKOVSKOYE

JEPPESEN
 14 SEP 07 **10-2C** Eff 27 Sep

STAVROPOL, RUSSIA
STAR



URMT/STW
 SHPAKOVSKOYE

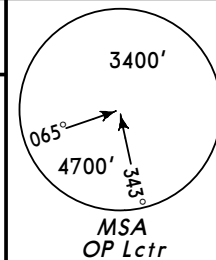
JEPPESEN
 9 JAN 09 10-2D Eff 15 Jan

STAVROPOL, RUSSIA
 STAR

Apt Elev
 1486'

Alt Set: MM (hPa on request) QNH on request
 Trans level: FL49 Trans alt: 3460' (1974')

(QFE)



PELIR 2B [PELI2B]
 PETUM 2B [PETU2B]
 RWY 07 ARRIVALS
 FROM NORTHEAST & SOUTHEAST
 WITHOUT RADAR CONTROL
 BY ATC

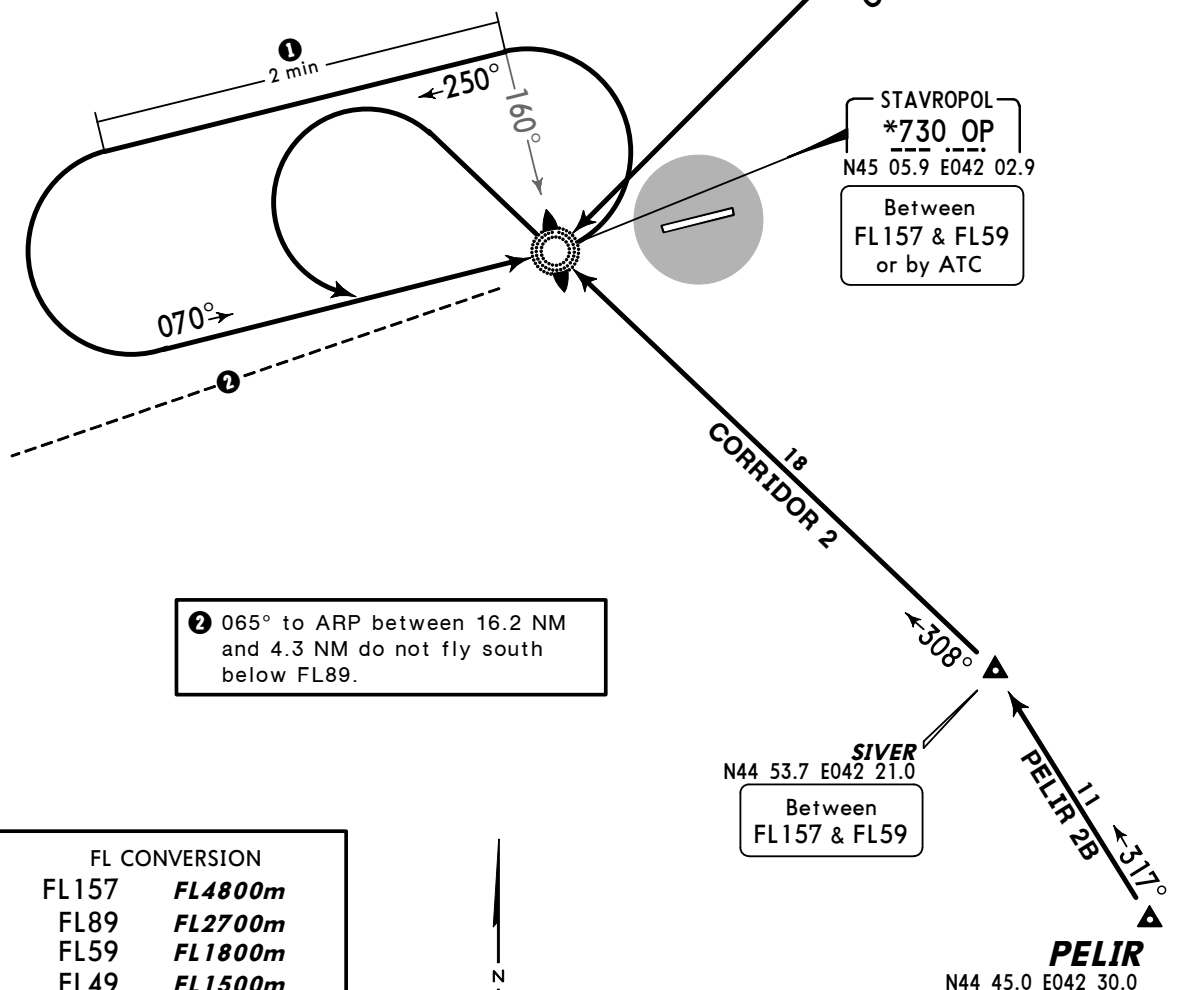
LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

**OUT-OF-TURN INSTRUMENT APPROACH PROCEDURE VIA OP
 HOLDING AREA IN CASE OF RADIO COMMUNICATION FAILURE**

1. The out-of-turn instrument approach procedure shall be carried out at or below FL157. When passing OP at or above FL157, aircraft shall descend to FL157 in holding area.
2. After passing OP on runway heading at or below FL157, aircraft shall fly for 30 seconds without descending, then descend to $FL = (FL157 \text{ or below} + 1970') / 2$, turn LEFT onto track 250° and descend according to instrument approach procedure to reach 3460' (1974') abeam OP.

LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

① MAX 225 KT
 Bank 20°-25°
 Between FL157 & FL59



② 065° to ARP between 16.2 NM and 4.3 NM do not fly south below FL89.

FL CONVERSION	
FL157	FL4800m
FL89	FL2700m
FL59	FL1800m
FL49	FL1500m

ALT/HEIGHT CONVERSION	
QNH	(QFE)
3460'	(1974' - 600m)



NOT TO SCALE

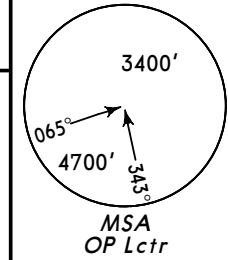
URMT/STW
SHPAKOVSKOYE

JEPPESEN
9 JAN 09 (10-2E) Eff 15 Jan

STAVROPOL, RUSSIA
STAR

Apt Elev
1486'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL49 Trans alt: 3460' (1974')



NETMI 2B [NETM2B]
PARAT 2B [PARA2B]
RWY 07 ARRIVALS
FROM NORTHWEST
WITHOUT RADAR CONTROL
BY ATC

PARAT
N45 32.0 E041 43.0
Between
FL148 & FL69



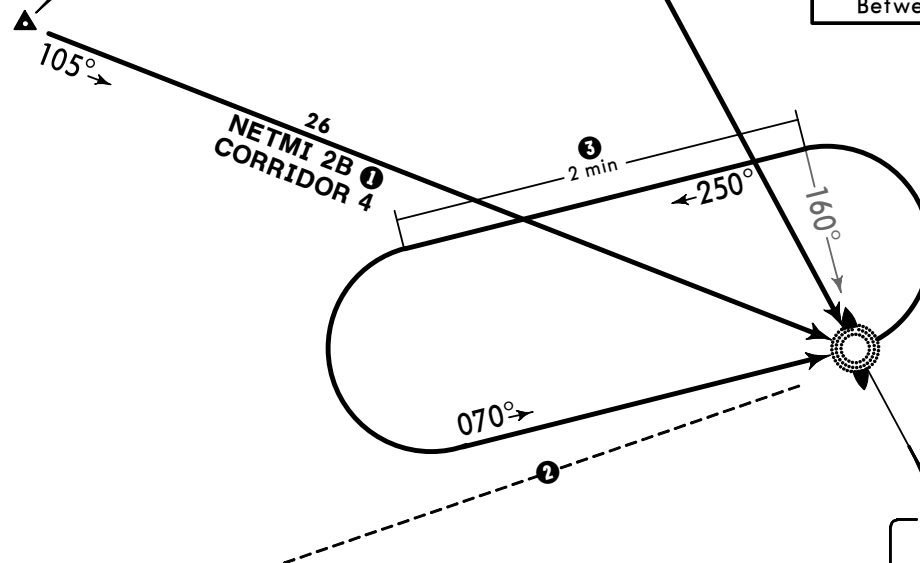
FL CONVERSION	
FL157	FL4800m
FL148	FL4500m
FL89	FL2700m
FL69	FL2100m
FL59	FL1800m
FL49	FL1500m

ALT/HEIGHT CONVERSION
QNH (QFE)
3460' (1974' - 600m)

- Available if no flight activity at Armavir AD.
- 065° to ARP between 16.2 NM and 4.3 NM do not fly south below FL89.

- MAX 225 KT
Bank 20°-25°
Between FL157 & FL59

NETMI
N45 15.3 E041 28.9
Between
FL148 & FL69



LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

OUT-OF-TURN INSTRUMENT APPROACH PROCEDURE VIA OP HOLDING AREA IN CASE OF RADIO COMMUNICATION FAILURE

- The out-of-turn instrument approach procedure shall be carried out at or below FL157. When passing OP at or above FL157, aircraft shall descend to FL157 in holding area.
- After passing OP on runway heading at or below FL157, aircraft shall fly for 30 seconds without descending, then descend to $FL = (FL157 \text{ or below} + 1970') / 2$, turn LEFT onto track 250° and descend according to instrument approach procedure to reach 3460' (1974') abeam OP.

LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

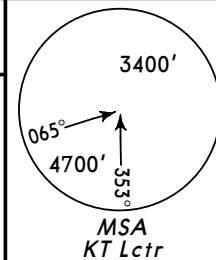
URMT/STW
SHPAKOVSKOYE

JEPPESEN
9 JAN 09 10-2F Eff 15 Jan

STAVROPOL, RUSSIA
STAR

Apt Elev
1486'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL49 Trans alt: 3460' (2026')



PELIR 4B [PELI4B]
PETUM 4B [PETU4B]
RWY 25 ARRIVALS
FROM NORTHEAST & SOUTHEAST
WITHOUT RADAR CONTROL
BY ATC

LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

**OUT-OF-TURN INSTRUMENT APPROACH PROCEDURE
VIA KT HOLDING AREA IN CASE OF RADIO
COMMUNICATION FAILURE**

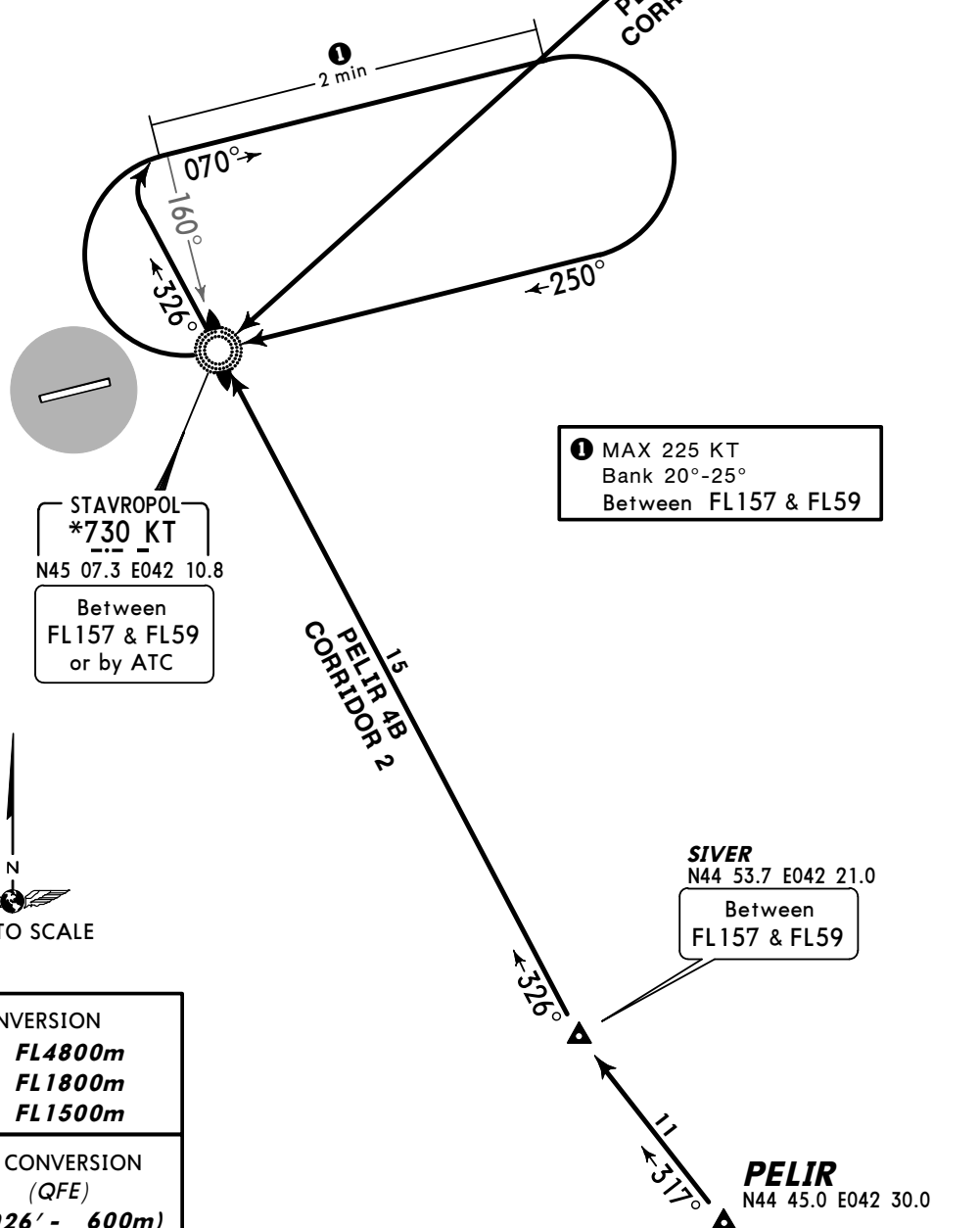
1. The out-of-turn instrument approach procedure shall be carried out at or below FL157. When passing KT at or above FL157, aircraft shall descend to FL157 in holding area.
2. After passing KT on runway heading at or below FL157, aircraft shall fly for 30 seconds without descending, then descend to $FL = (FL157 \text{ or below} + 1970')/2$, turn LEFT onto track 070° and descend according to instrument approach procedure to reach 3460' (2026') abeam KT.

LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

PETUM

N45 24.0 E042 37.0

Between
FL157 & FL59



STAVROPOL
*730 KT
N45 07.3 E042 10.8
Between
FL157 & FL59
or by ATC

① MAX 225 KT
Bank 20°-25°
Between FL157 & FL59

SIVER

N44 53.7 E042 21.0

Between
FL157 & FL59

PELIR

N44 45.0 E042 30.0

FL CONVERSION
FL157 **FL4800m**
FL59 **FL1800m**
FL49 **FL1500m**

ALT/HEIGHT CONVERSION
QNH (QFE)
3460' (2026' - 600m)

URMT/STW
SHPAKOVSKOYE

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

STAVROPOL, RUSSIA

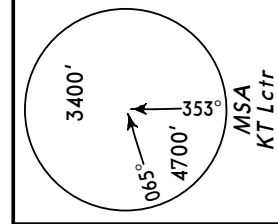
STAR

Apt Elev
1486'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL49 Trans alt: 3460' (**2026'**)

(QFE)

**NETMI 4B [NETM4B]
PARAT 4B [PARA4B]
RWY 25 ARRIVALS
FROM NORTHWEST
WITHOUT RADAR CONTROL
BY ATC**

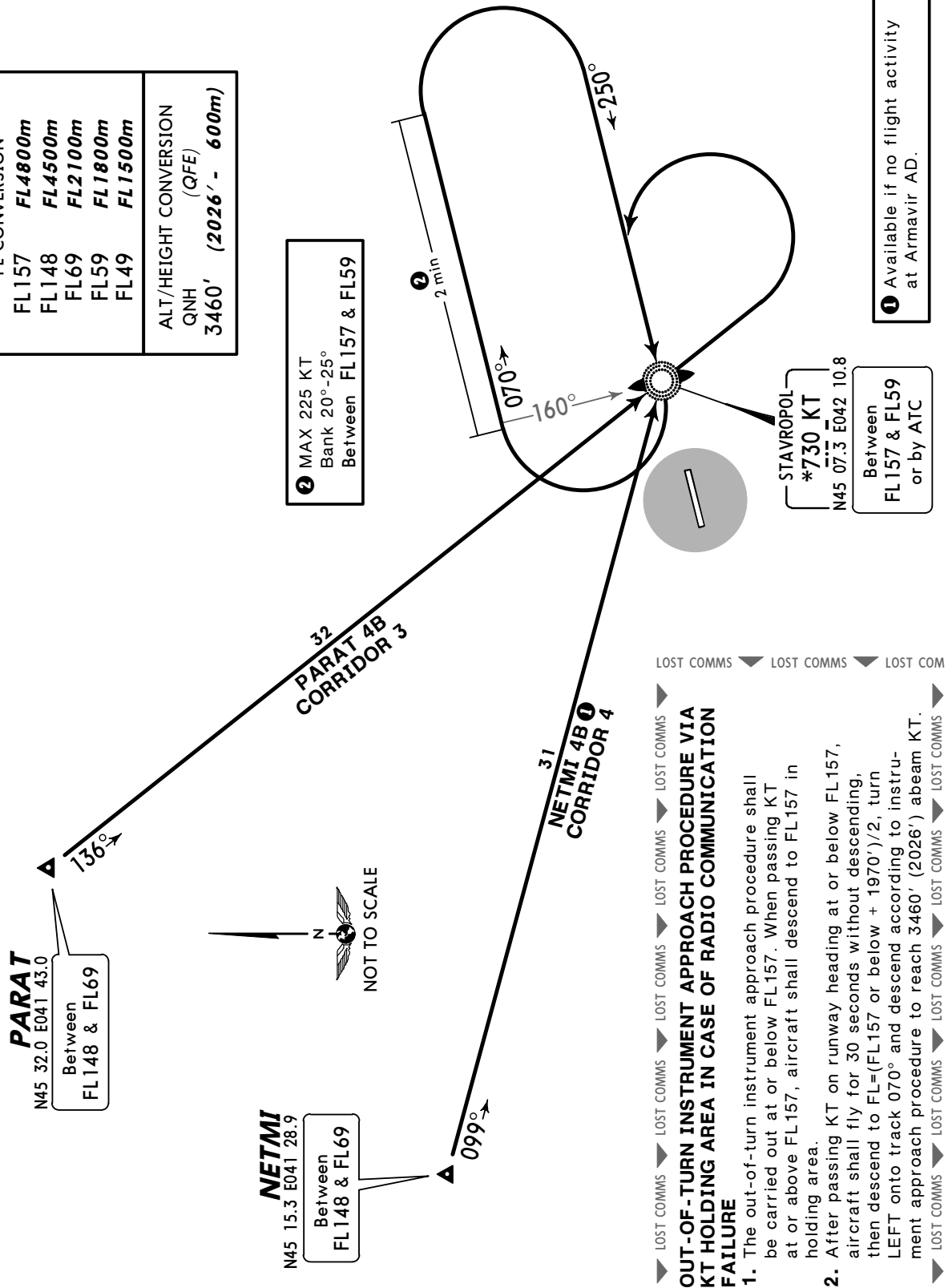


FL CONVERSION	ALT/HEIGHT CONVERSION
FL157 FL4800m	QNH (QFE)
FL148 FL4500m	3460' (2026' - 600m)
FL69 FL2100m	
FL59 FL1800m	
FL49 FL1500m	

2 MAX 225 KT
Bank 20°-25°
Between FL157 & FL59

Available if no flight activity at Armavir AD.

Between
FL157 & FL59
or by ATC



LOST COMMS ▼ LOST COMMS ▼ LOST COM

1. The out-of-turn instrument approach procedure shall be carried out at or below FL157. When passing KT at or above FL157, aircraft shall descend to FL157 in holding area.

2. After passing KT on runway heading at or below FL157, aircraft shall fly for 30 seconds without descending, then descend to FL=(FL157 or below + 1970')/2, turn LEFT onto track 070° and descend according to instrument approach procedure to reach 3460' (2026') abeam KT.

URMT/STW
SHPAKOVSKOYE

JEPPESEN
14 SEP 07 10-3 Eff 27 Sep

STAVROPOL, RUSSIA

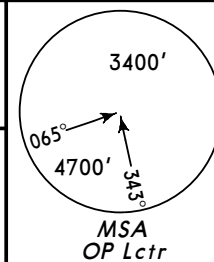
SID

Apt Elev
1486'

QNH on request (QFE)

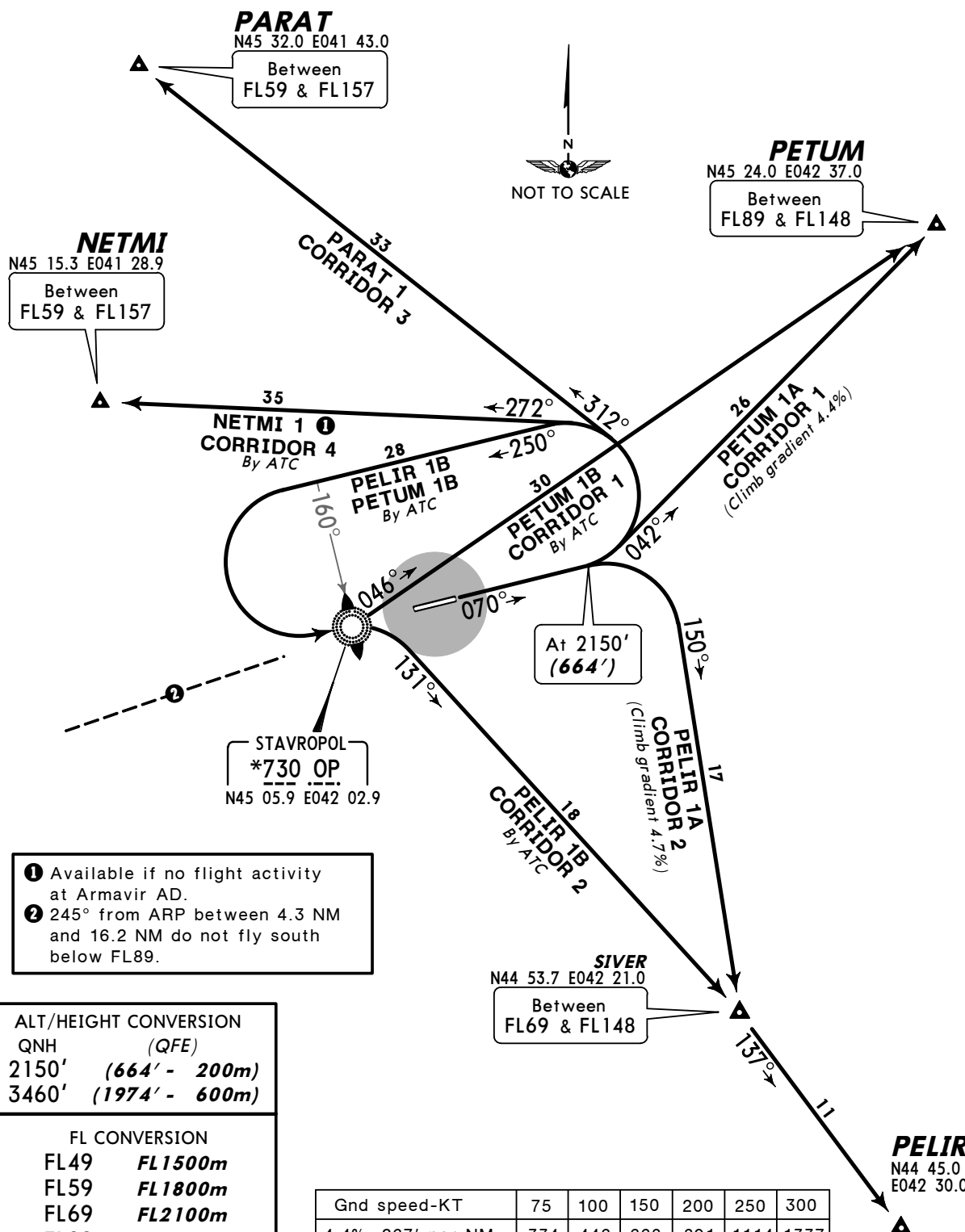
Trans level: FL49 Trans alt: 3460' (1974')

PELIR 1A: Take-off to be carried out with noise abatement procedure according to Flight Manual.



PARAT 1
PELIR 1A [PEL11A]
PETUM 1A [PETU1A]
NETMI 1
PELIR 1B [PEL11B]
PETUM 1B [PETU1B]
BY ATC

RWY 07 DEPARTURES



- ① Available if no flight activity at Armavir AD.
- ② 245° from ARP between 4.3 NM and 16.2 NM do not fly south below FL89.

ALT/HEIGHT CONVERSION
QNH (QFE)
2150' (664' - 200m)
3460' (1974' - 600m)

FL CONVERSION
FL49 FL1500m
FL59 FL1800m
FL69 FL2100m
FL89 FL2700m
FL148 FL4500m
FL157 FL4800m

Gnd speed-KT	75	100	150	200	250	300
4.4% 267' per NM	334	446	668	891	1114	1337
4.7% 286' per NM	357	476	714	952	1190	1428

URMT/STW
SHPAKOVSKOYE

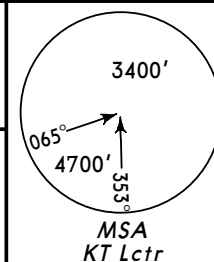
JEPPESEN
14 SEP 07 (10-3A) Eff 27 Sep

STAVROPOL, RUSSIA

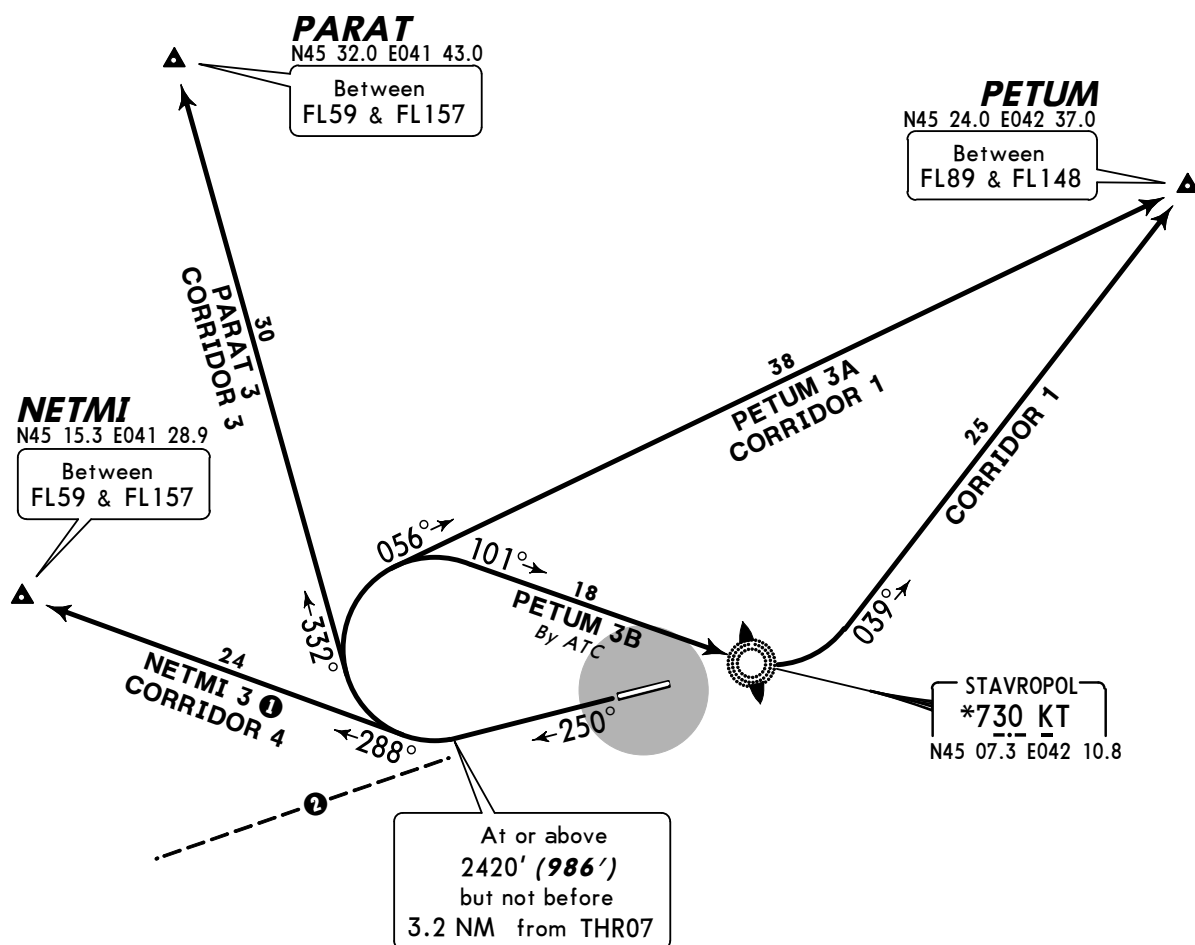
SID

Apt Elev
1486'

QNH on request (QFE)
Trans level: FL49 Trans alt: 3460' (2026')
Take-off to be carried out using noise abatement procedures
for area according to Flight Manual.



NETMI 3
PARAT 3
PETUM 3A [PETU3A]
RWY 25 DEPARTURES
TO NORTH



ALT/HEIGHT CONVERSION
QNH (QFE)
2420' (986' - 300m)
3460' (2026' - 600m)

FL CONVERSION
FL49 FL1500m
FL59 FL1800m
FL89 FL2700m
FL148 FL4500m
FL157 FL4800m



- ① Available if no flight activity at Armavir AD.
- ② 245° from ARP between 4.3 NM and 16.2 NM do not fly south below FL89.

URMT/STW
SHPAKOVSKOYE

JEPPESEN
14 SEP 07 **10-3B** Eff 27 Sep

STAVROPOL, RUSSIA

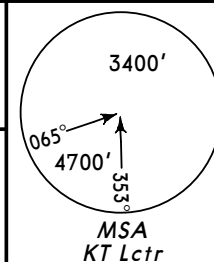
SID

Apt Elev
1486'

QNH on request **(QFE)**

Trans level: FL49 Trans alt: 3460' **(2026')**

Take-off to be carried out using noise abatement procedures for area according to Flight Manual.



PELIR 3A [PELI3A]

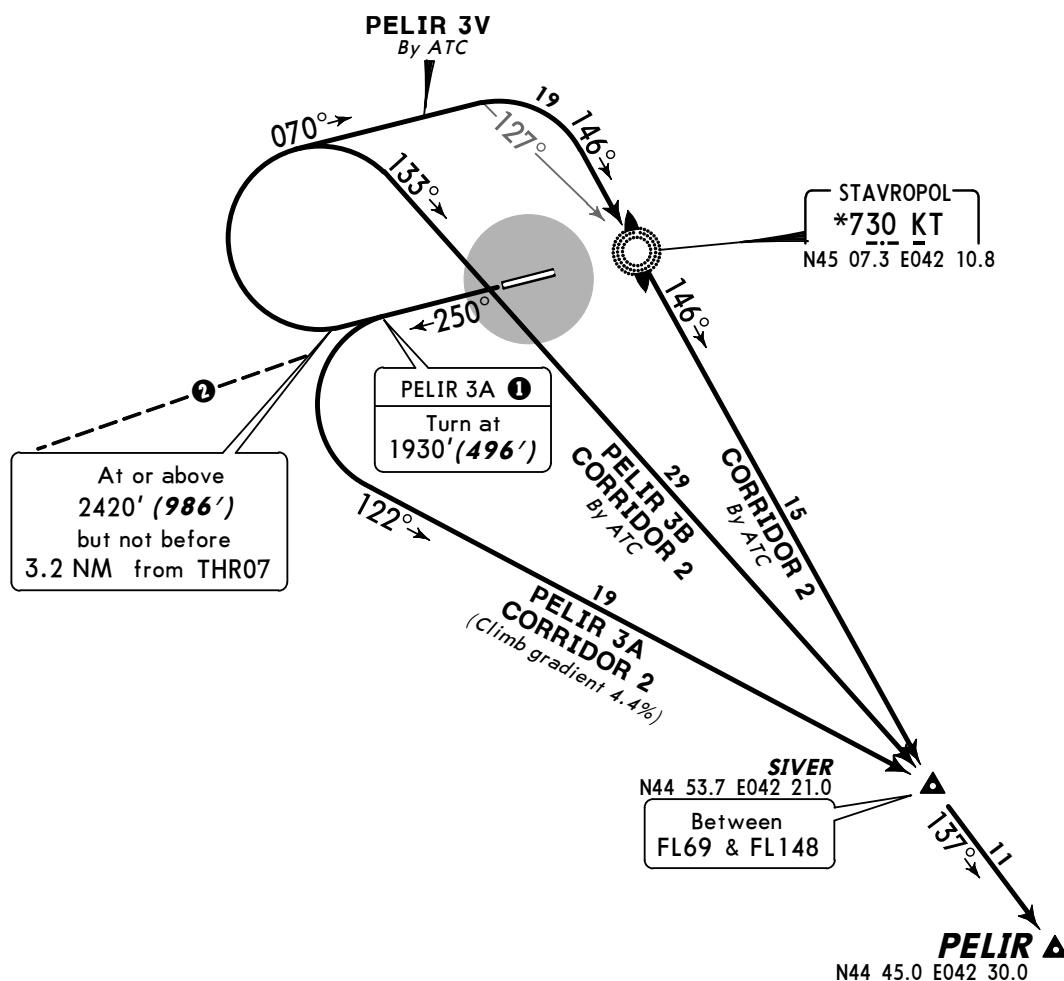
CAT A & B

PELIR 3B [PELI3B]

PELIR 3V [PELI3V]

BY ATC

RWY 25 DEPARTURES
TO SOUTH



Gnd speed-KT	75	100	150	200	250	300
4.4% 267' per NM	334	446	668	891	1114	1337

ALT/HEIGHT CONVERSION

QNH	(QFE)
1930'	(496' - 150m)
2420'	(986' - 300m)
3460'	(2026' - 600m)

FL CONVERSION

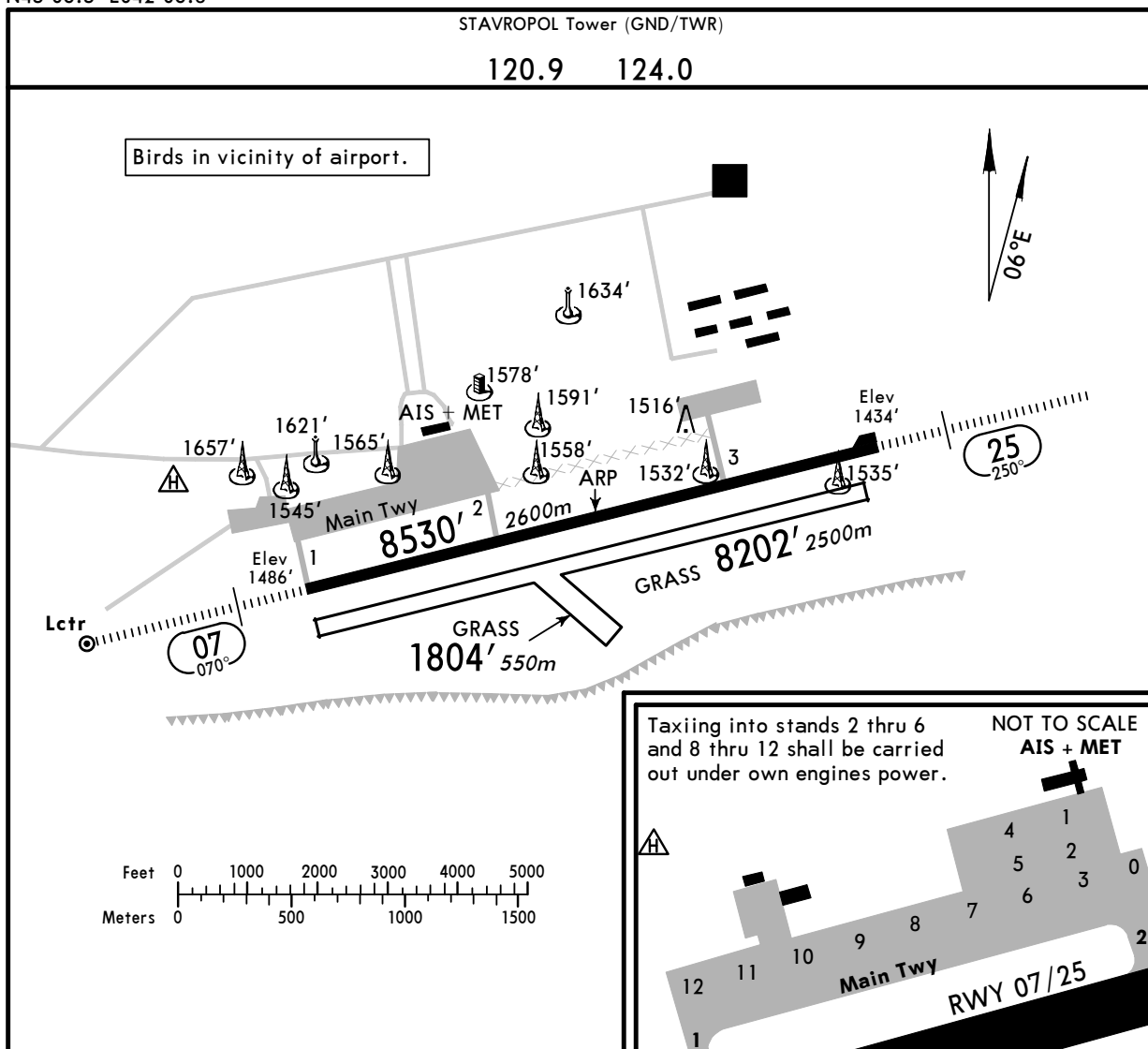
FL49	FL1500m
FL69	FL2100m
FL89	FL2700m
FL148	FL4500m

- LEFT turn to SIVER within a maximum distance from THR07 of 3.8 NM. If unable to comply turn RIGHT.
- 245° from ARP between 4.3 NM and 16.2 NM do not fly south below FL89.

URMT/STW
Apt Elev **1486'**
N45 06.5 E042 06.8

JEPPESSEN
3 MAR 06 **(10-9)** Eff 16 Mar

STAVROPOL, RUSSIA
SHPAKOVSKOYE



ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS				TAKE-OFF	WIDTH
		LANDING BEYOND		Threshold	Glide Slope		
07	25	RL (60m)	HIALS	PAPI-L (angle 3.17°)	RVR	7546' 2300m	157' 48m
07	25	RL (60m)	HIALS	PAPI-L (angle 2.67°)	RVR		262' 80m
		Grass runway					328' 100m
		Grass runway					

TAKE-OFF

AIR CARRIER (JAA)

All Rwy's

LVP must be in force
RCLM (DAY only)
or RL

RCLM (DAY only)
or RL

A
B
C
D

250m

300m

400m

URMT/STW

JEPPESEN
 26 OCT 07 10-9X

JAA MINIMUMS
 STAVROPOL, RUSSIA
 SHPAKOVSKOYE

STRAIGHT-IN RWY		A	B	C	D
07	ILS	1686' (200')	1686' (200')	1686' (200')	1686' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	NDB	1870' (384')	1870' (384')	1870' (384')	1870' (384')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
25	ILS	1634' (200')	1634' (200')	1634' (200')	1634' (200')
		R550m	R550m	R550m	R550m
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	NDB	1730' (296')	1730' (296')	1730' (296')	1730' (296')
		R800m	R800m	R800m	R1200m
	ALS out	R1500m	R1500m	R1600m	R1800m

TAKE-OFF RWY 07, 25

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		

URMT/STW
SHPAKOVSKOYEJEPPESEN
6 JUL 07 (11-1)STAVROPOL, RUSSIA
ILS or 02 NDB Rwy 07

BRIEFING STRIP

STAVROPOL Approach (APP/SRE)

120.3 124.0

STAVROPOL Tower

120.9 124.0

Ground

120.9

LOC
IOP
*110.5

NDB
OP
730

Final
Apch Crs
070°

GS
LOM
2241' (755')

Minimum Alt
5.2 NM RDP
3130' (1644')

ILS
DA(H)
1686' (200')

NDB
MDA(H)
1870' (384')

Apt Elev 1486'

RWY1486'

MISSED APCH: Climb on 070° to 2150' (664'), then turn LEFT onto 250° climbing to 3460' (1974'), then according to chart.

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 49 Trans alt: 3460' (1974')

1. Turbulence with downdrafts and windshear may be expected on final in the vicinity of base turn.

2. Ground proximity warning system may be brought into operation between LOM and LMM due to abrupt change of relief.

3400'

065°

4700'

343°

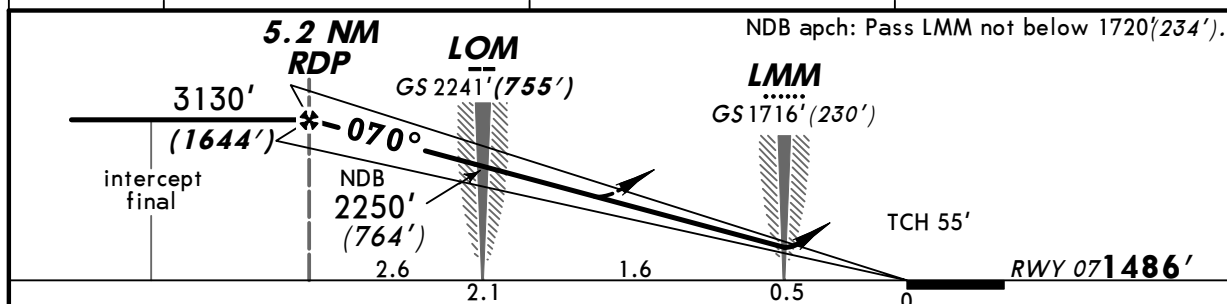
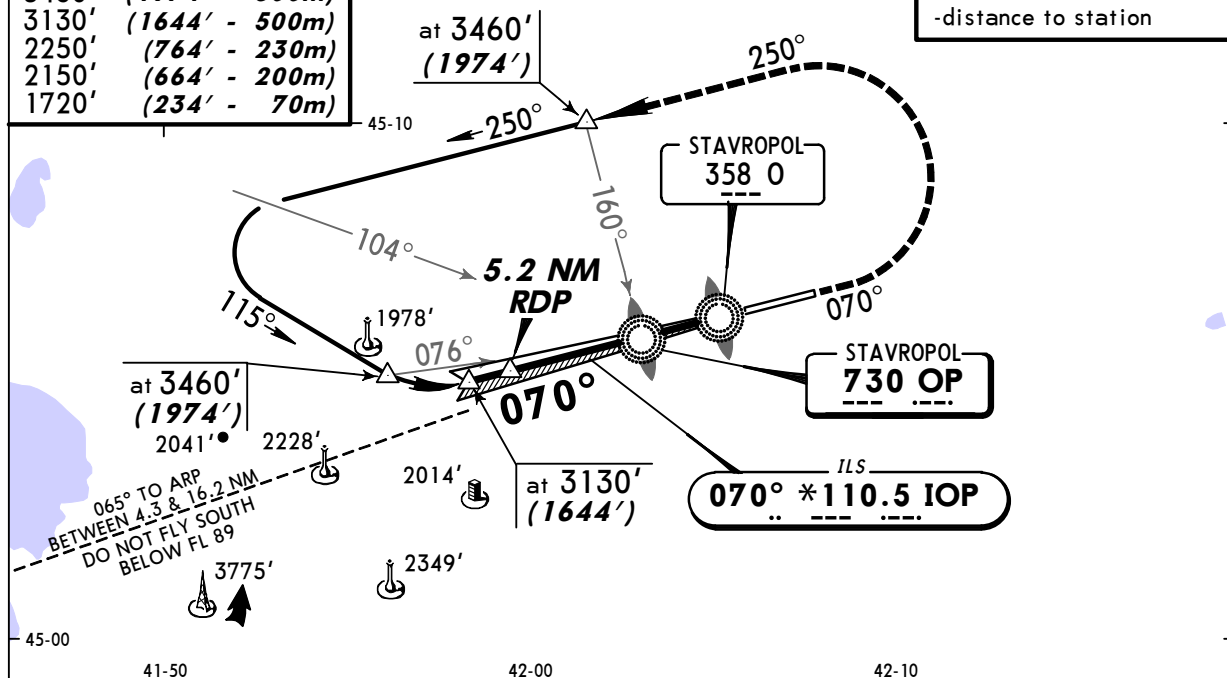
MSA
OP NDB

ALT/HEIGHT CONVERSION

QNH	(QFE)
3460'	(1974' - 600m)
3130'	(1644' - 500m)
2250'	(764' - 230m)
2150'	(664' - 200m)
1720'	(234' - 70m)

① 2 NDB apch shall be under radar control.

RDP (Radar descent point)
- will be allocated by
Radar Controller
- distance to station



Gnd speed-Kts	70	90	100	120	140	160	HIALS	2150' (664') on 070°	250°	3460' (1974')
ILS GS 3.17° or NDB Desc Grad 5.5%	398	511	568	682	796	909	PAPI		LT	

STRAIGHT-IN LANDING RWY 07					
ILS		LOC	NDB		
DA(H) 1686' (200')		(GS out)	MDA(H) 1870' (384')		
FULL	ALS out			ALS out	
A					
B					
C	RVR 720m VIS 800m	1200m	NOT AUTH	1200m	RVR 1500m VIS 1600m
D					RVR 1500m VIS 1600m

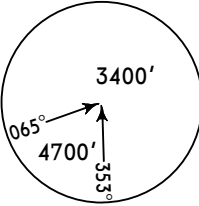
W/o Radar control: Ceil-VIS 700m - 5000m.

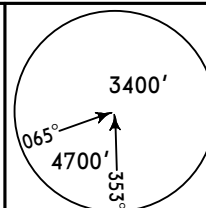
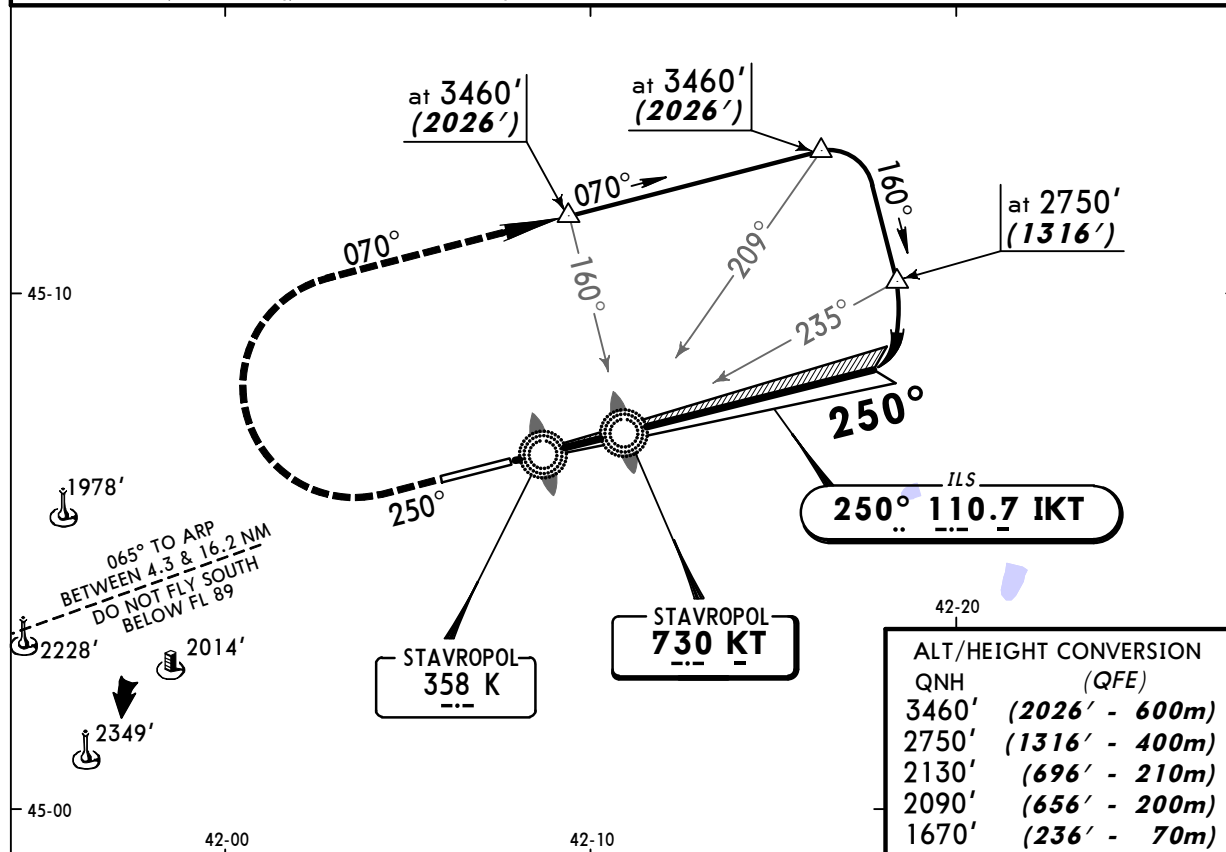
CHANGES: TCH.

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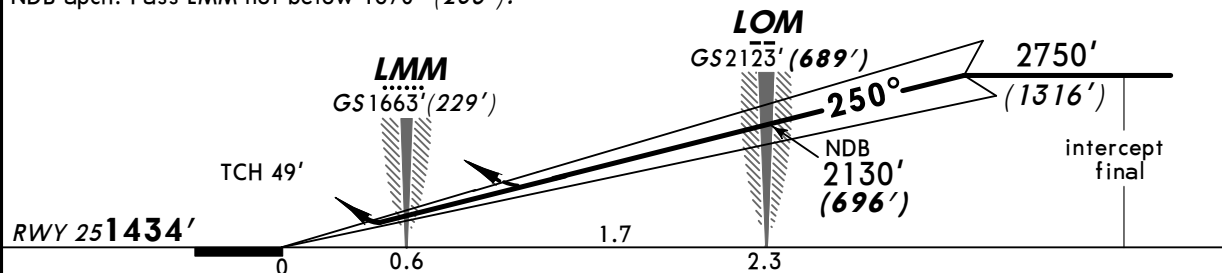
URMT/STW
SHPAKOVSKOYEJEPPESEN
6 JUL 07 (11-2)STAVROPOL, RUSSIA
ILS or 2 NDB Rwy 25

BRIEFING STRIP

STAVROPOL Approach (APP/SRE)		STAVROPOL Tower		Ground		
120.3 124.0		120.9 124.0		120.9		
LOC IKT 110.7	Final Apch Crs 250°	GS LOM 2123' (689')	ILS DA(H) 1634' (200')	Apt Elev 1486' RWY 1434'		
NDB KT 730		Minimum Alt LOM 2130' (696')	NDB MDA(H) 1730' (296')			
MISSED APCH: Climb on 250° to 2090' (656'), then turn RIGHT onto 070° climbing to 3460' (2026'), then according to chart.						MSA KT NDB
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 49 Trans alt: 3460' (2026')		

MSA
KT NDB

NDB apch: Pass LMM not below 1670' (236').



Gnd speed-Kts	70	90	100	120	140	160	HIALS	2090' (656') on 250°	070°	3460' (2026')
ILS GS 2.67° or NDB Desc Grad 4.7%	336	433	481	577	673	769	PAPI	↑	RT	↑

STRAIGHT-IN LANDING RWY 25		LOC (GS out)		NDB	
ILS		LOC (GS out)		NDB	
DA(H) 1634' (200')				MDA(H) 1730' (296')	
FULL	ALS out				ALS out
A					
B					
C	RVR 720m VIS 800m	1200m	NOT AUTHORIZED	1200m	RVR 1500m VIS 1600m
D					RVR 1500m VIS 1600m

PANS OPS