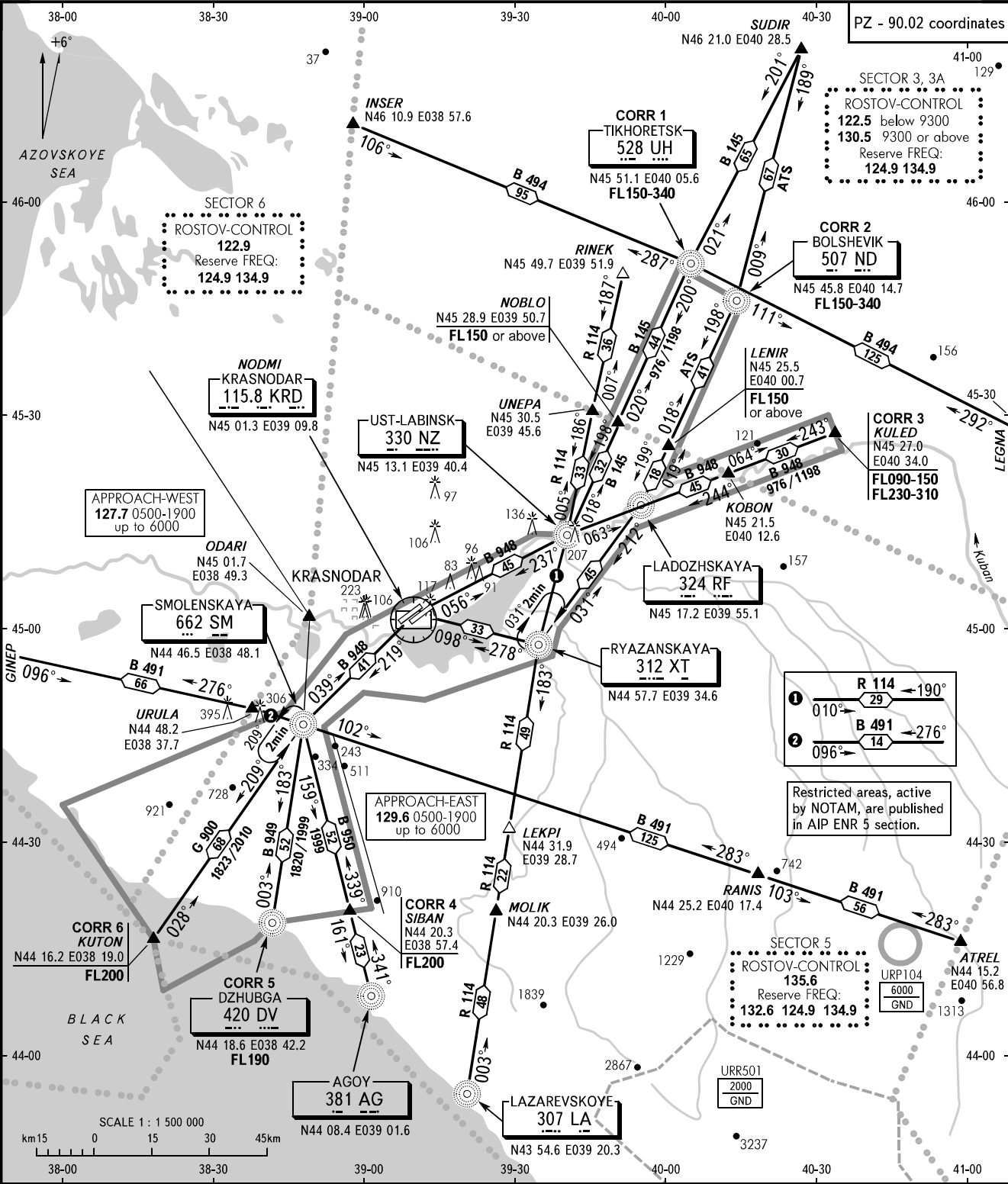


AREA CHART - ICAO

ARRIVAL, DEPARTURE
AND TRANSIT ROUTES

KRASNODAR, RUSSIA

PASHKOVSKIY



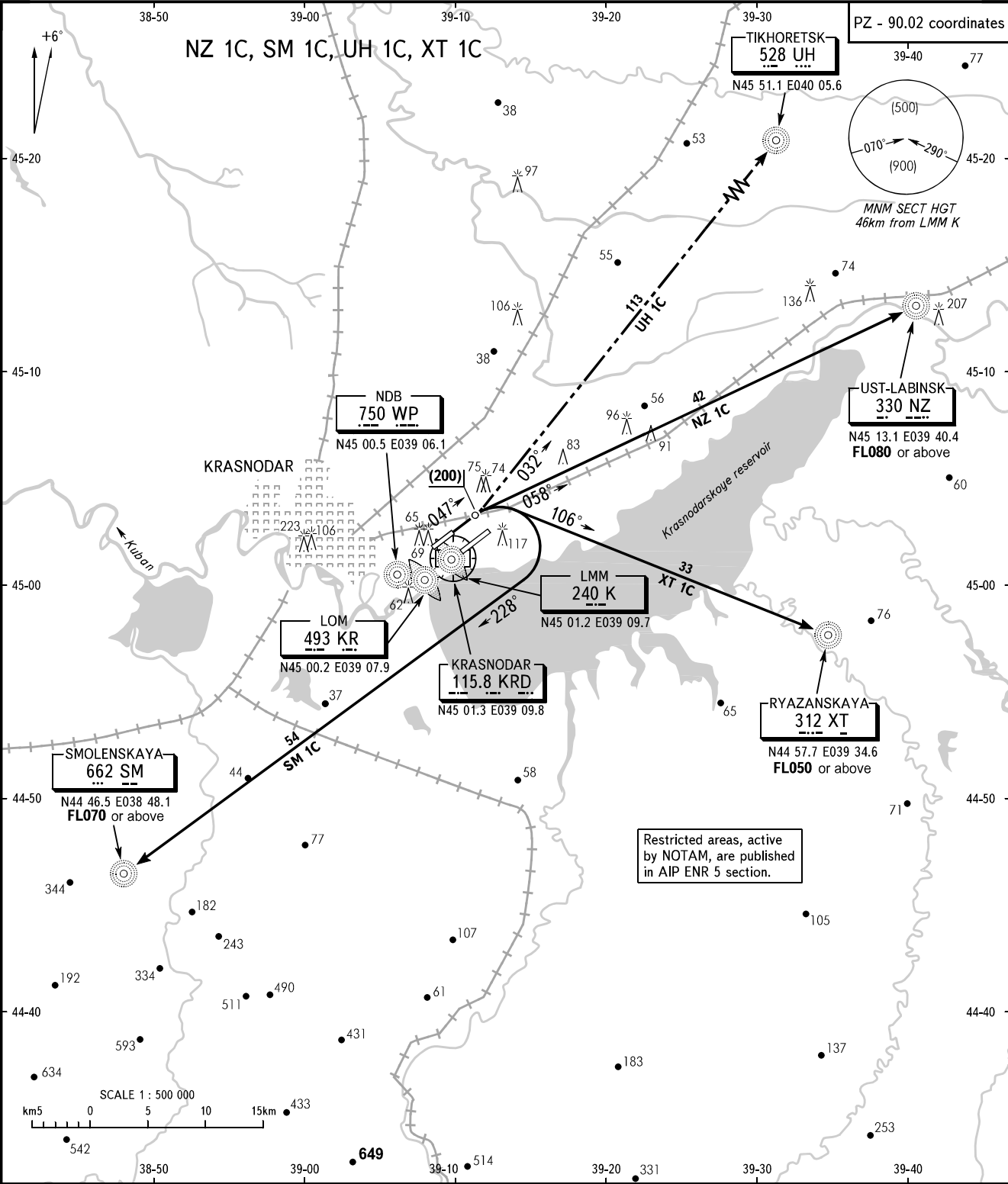
APPROACH	0500-1900	Sector East	129.6
		Sector West	127.7
	1900-0500	Sector 000°-360°	129.6
ATIS			121.8 RUS 122.450 ENG

BEARINGS AND TRACKS ARE MAGNETIC
ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES
DISTANCES ARE IN KILOMETRES

STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO

TRANSITION
HEIGHT : (900)

KRASNODAR, RUSSIA
PASHKOVSKIY
RWY 05L



TOWER RWY 05L
RWY 05R
RADAR
APPROACH 0500-1900 Sector EAST up to 6000m
1900-0500 Sector WEST up to 6000m
Sector 000°-360°

120.6
118.2
121.3
129.6
127.7
129.6

WARNING:
1. Proceed along NZ 1C route with climb gradient of not less than 5.3% up to FL080.
2. Proceed along XT 1C route with climb gradient of not less than 4.0% up to FL070.

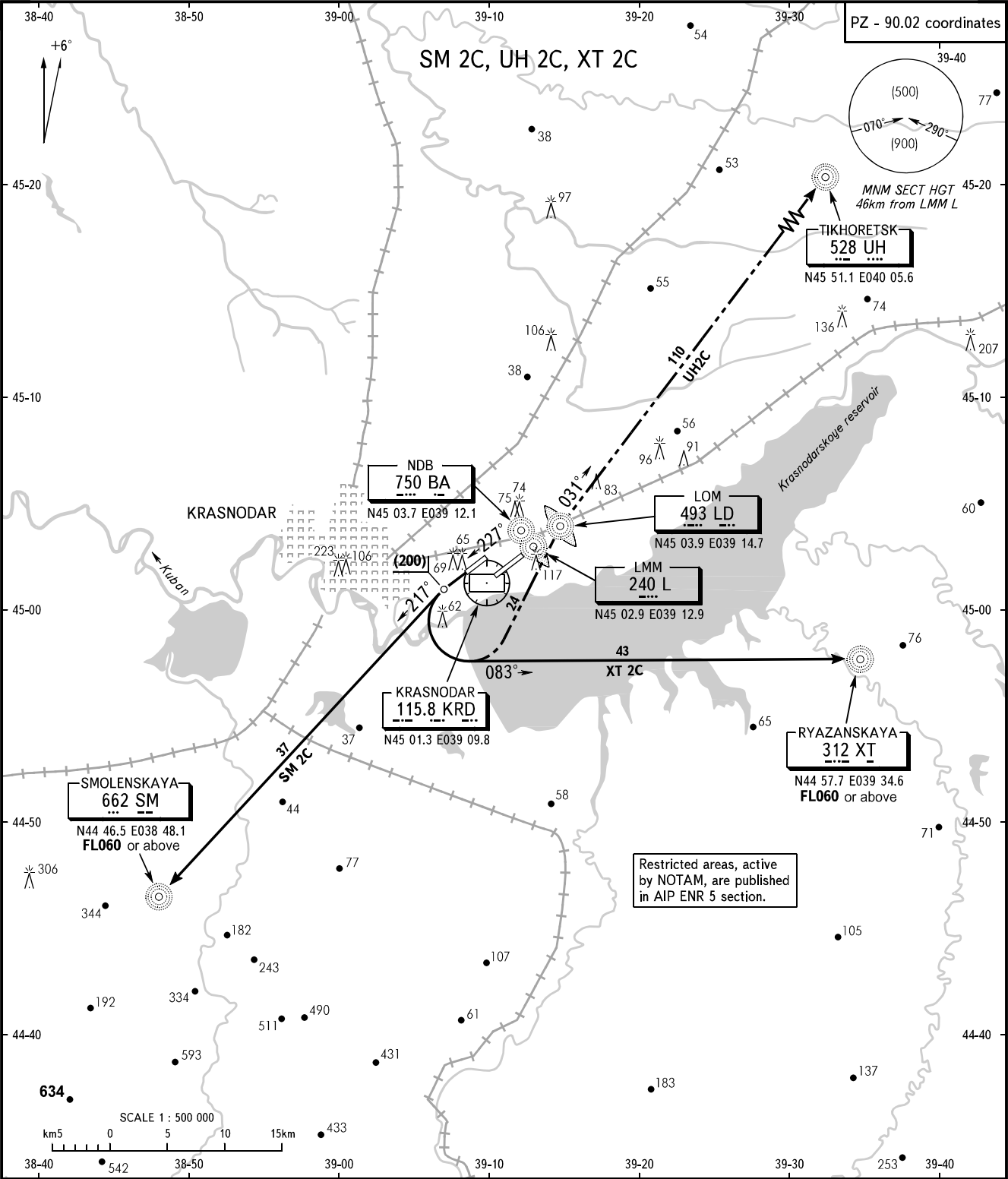
Ground speed	km/h	300	350	400	450	500	550
Climb gradient 4.0%							
Vertical speed	m/s	3.3	3.9	4.4	5.0	5.6	6.1
Climb gradient 5.3%							
Vertical speed	m/s	4.4	5.2	5.9	6.6	7.4	8.1

BEARINGS AND TRACKS ARE MAGNETIC
ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES
DISTANCES ARE IN KILOMETRES

STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO

TRANSITION
HEIGHT : (900)

KRASNODAR, RUSSIA
PASHKOVSKIY
RWY 23R



TOWER RWY 23R

RWY 23L

RADAR

APPROACH 0500-1900 Sector EAST up to 6000m

1900-0500 Sector WEST up to 6000m

1900-0500 Sector 000°-360°

120.6

118.2

121.3

129.6

127.7

129.6

BEARINGS AND TRACKS ARE MAGNETIC

ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES

DISTANCES ARE IN KILOMETRES

WARNING:

1. Proceed along XT 2C route with climb gradient of not less than 3.6% up to FL060.

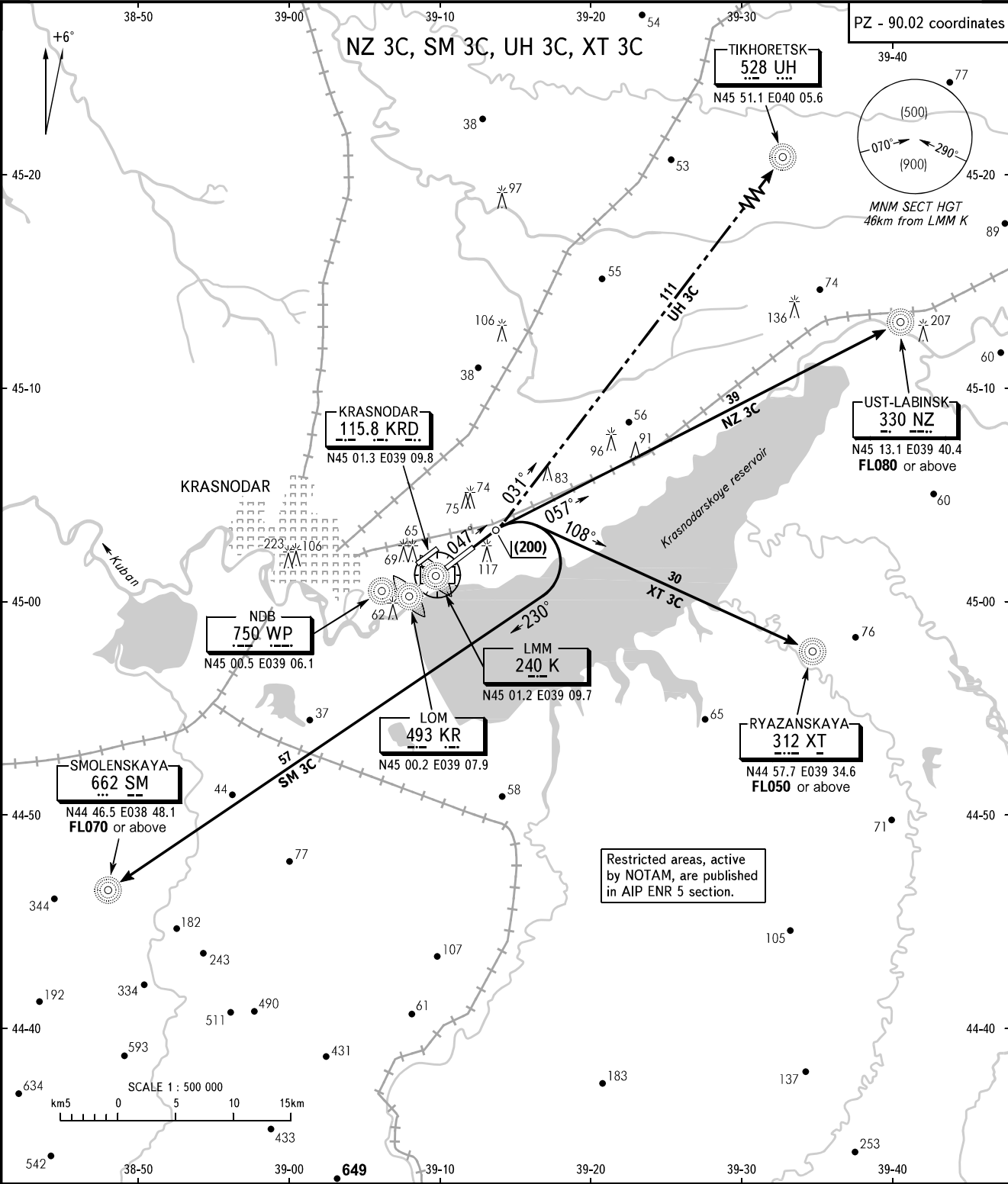
2. Proceed along SM 2C route with climb gradient of not less than 4.5% up to FL060.

Ground speed	km/h	300	350	400	450	500	550
Climb gradient 3.6%							
Vertical speed	m/s	3.0	3.5	4.0	4.5	5.0	5.5
Climb gradient 4.5%							
Vertical speed	m/s	3.7	4.4	5.0	5.6	6.2	6.9

STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO

TRANSITION
HEIGHT : (900)

KRASNODAR, RUSSIA
PASHKOVSKIY
RWY 05R



TOWER RWY 05R

RWY 05L

RADAR

APPROACH 0500-1900 Sector EAST up to 6000m

1900-0500 Sector WEST up to 6000m

1900-0500 Sector 000°-360°

BEARINGS AND TRACKS ARE MAGNETIC

ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES

DISTANCES ARE IN KILOMETRES

118.2

120.6

121.3

129.6

127.7

129.6

WARNING:

1. Proceed along NZ 3C route with climb gradient of not less than 5.7% up to FL080.

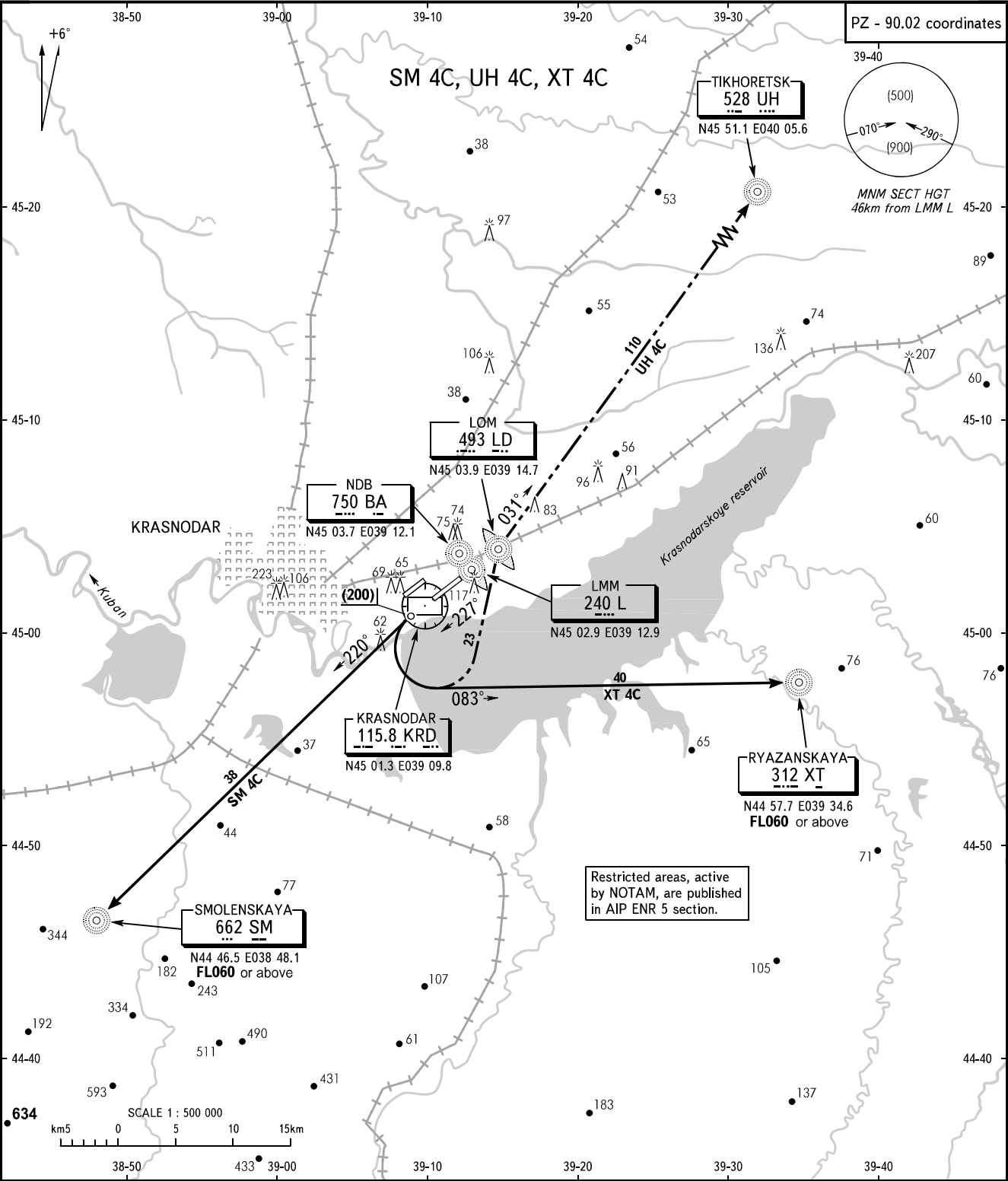
2. Proceed along XT 3C route with climb gradient of not less than 4.4% up to FL050.

Ground speed	km/h	300	350	400	450	500	550
Climb gradient 4.4%							
Vertical speed	m/s	3.7	4.3	4.9	5.5	6.1	6.7
Climb gradient 5.7%							
Vertical speed	m/s	4.7	5.5	6.3	7.1	7.9	8.7

STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO

TRANSITION
HEIGHT : (900)

KRASNODAR, RUSSIA
PASHKOVSKIY
RWY 23L



TOWER RWY 23L

RWY 23R

RADAR

APPROACH 0500-1900 Sector EAST up to 6000m

1900-0500 Sector WEST up to 6000m

1900-0500 Sector 000°-360°

118.2

120.6

121.3

129.6

127.7

129.6

BEARINGS AND TRACKS ARE MAGNETIC

ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES

DISTANCES ARE IN KILOMETRES

WARNING:

1. Proceed along XT 4C route with climb gradient of not less than 3.9% up to FL060.

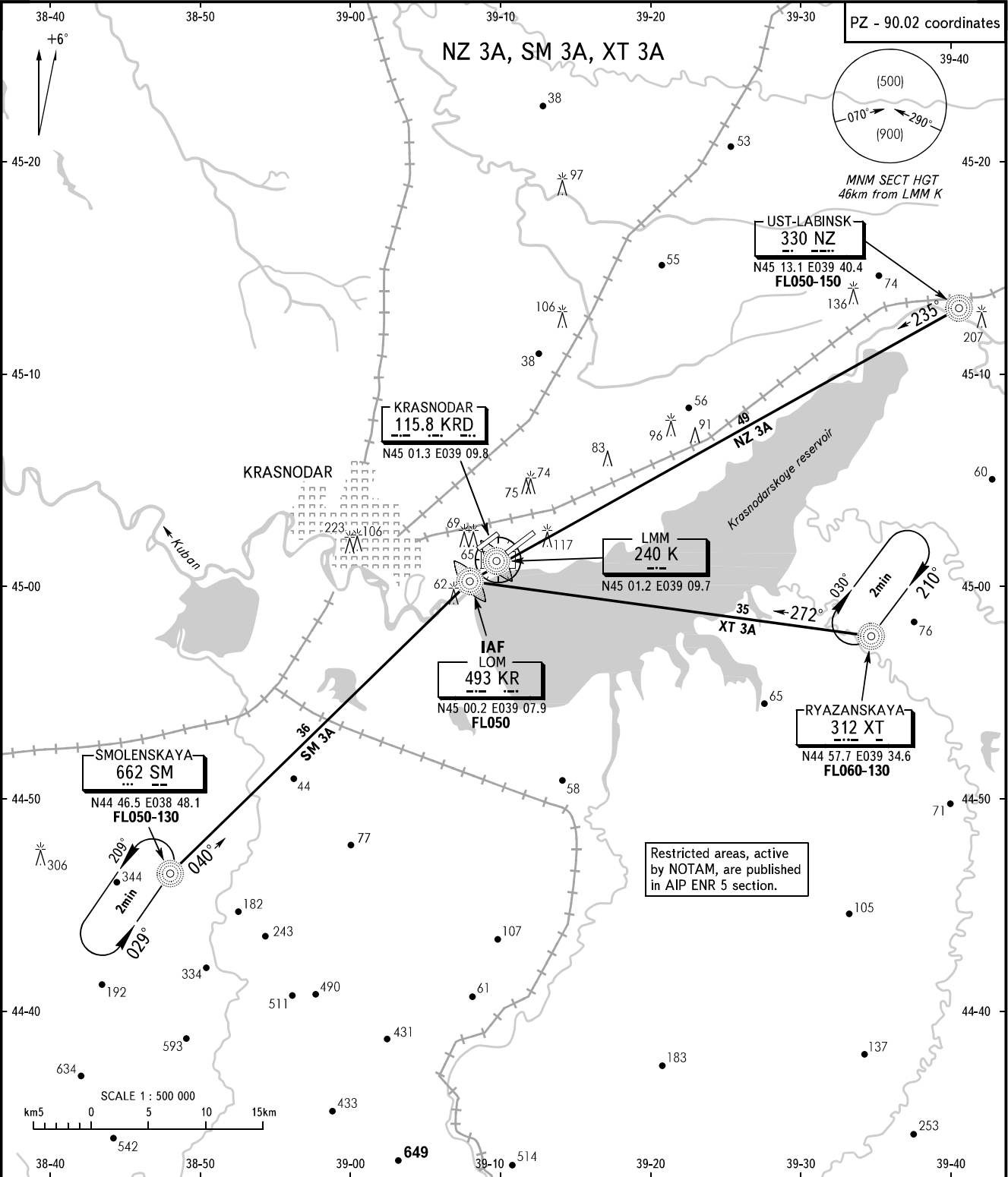
2. Proceed along SM 4C route with climb gradient of not less than 4.2% up to FL060.

Ground speed	km/h	300	350	400	450	500	550
Climb gradient 3.9%							
Vertical speed	m/s	3.2	3.8	4.3	4.9	5.4	6.0
Climb gradient 4.2%							
Vertical speed	m/s	3.5	4.1	4.7	5.2	5.8	6.4

STANDARD ARRIVAL CHART
INSTRUMENT (STAR) - ICAO

TRANSITION
LEVEL : **FL050**

KRASNODAR, RUSSIA
PASHKOVSKIY
RWY 05R

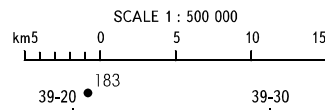


APPROACH	0500-1900	Sector EAST up to 6000m	129.6
		Sector WEST up to 6000m	127.7
	1900-0500	Sector 000°-360°	129.6
RADAR			121.3
TOWER RWY 05L/23R			120.6
RWY 05R/23L			118.2

BEARINGS AND TRACKS ARE MAGNETIC
ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES
DISTANCES ARE IN KILOMETRES

KRASnodAR, RUSSIA
PASHKOVSKIY
RWY 23L

PZ - 90.02 coordinates



APPROACH	0500-1900	Sector EAST up to 6000m	129.6
	1900-0500	Sector WEST up to 6000m	127.7
		Sector 000°-360°	129.6
RADAR			121.3
TOWER	RWY 05L/23R		120.6
	RWY 05R/23L		118.2

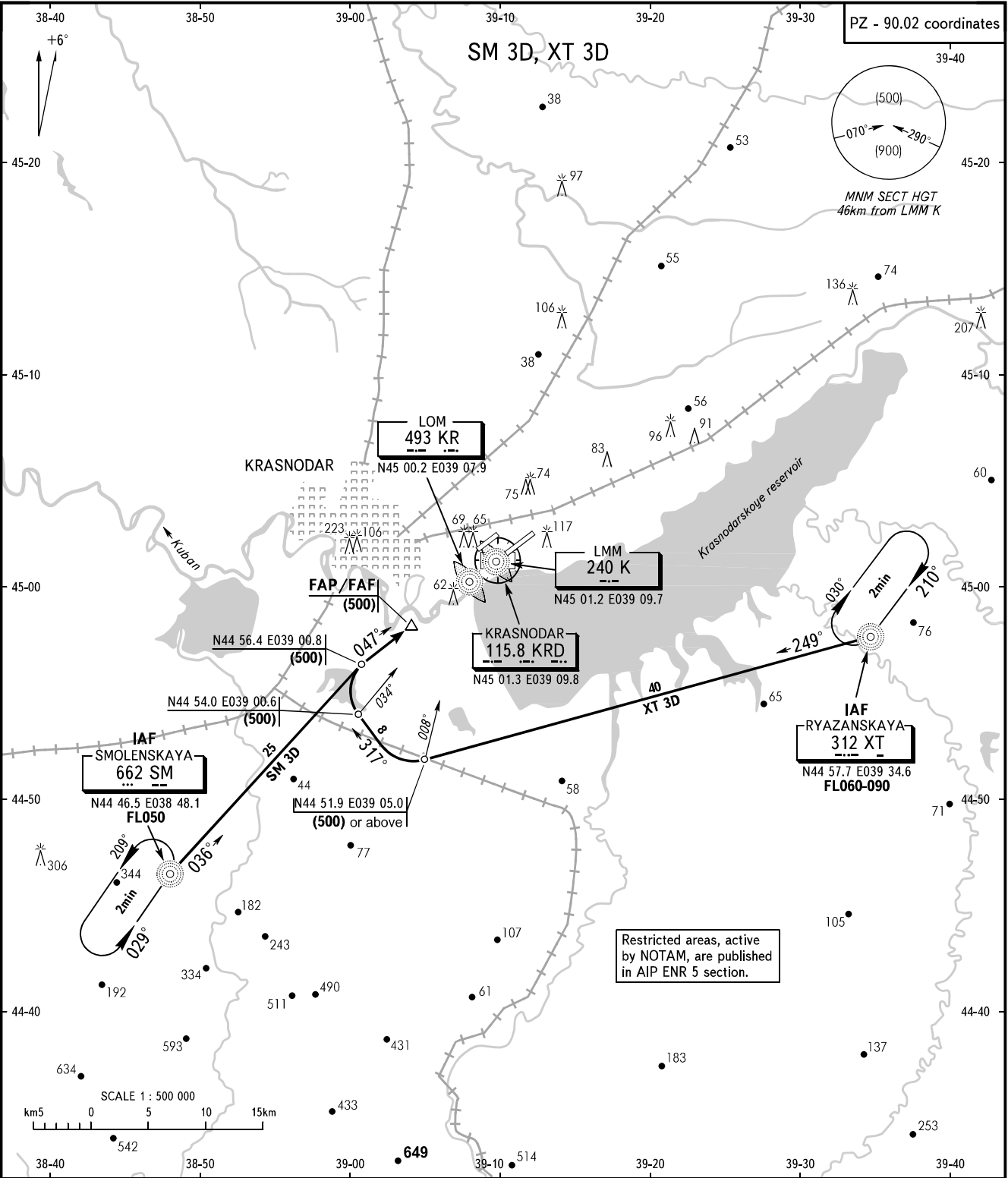
BEARINGS AND TRACKS ARE MAGNETIC
ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES
DISTANCES ARE IN KILOMETRES

CHANGE: FL, DVORDME

STANDARD ARRIVAL CHART
INSTRUMENT (STAR) - ICAO

TRANSITION
LEVEL : FL050

KRASNODAR, RUSSIA
PASHKOVSKIY
RWY 05R

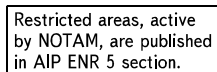


APPROACH	0500-1900	Sector EAST up to 6000m	129.6
		Sector WEST up to 6000m	127.7
	1900-0500	Sector 000°-360°	129.6
RADAR			121.3
TOWER RWY 05L/23R			120.6
RWY 05R/23L			118.2

BEARINGS AND TRACKS ARE MAGNETIC
ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES
DISTANCES ARE IN KILOMETRES

RWY 23L

PZ - 90.02 coordinates



APPROACH	0500-1900	Sector EAST up to 6000m	129.6
		Sector WEST up to 6000m	127.7
	1900-0500	Sector 000°-360°	129.6
RADAR			121.3
TOWER	RWY 05L/23R		120.6
	RWY 05R/23L		118.2

BEARINGS AND TRACKS ARE MAGNETIC
ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES
DISTANCES ARE IN KILOMETRES

AERODROME
CHART - ICAO

ARP
N45°02.1'
E039°10.2'

ELEV
36.1m

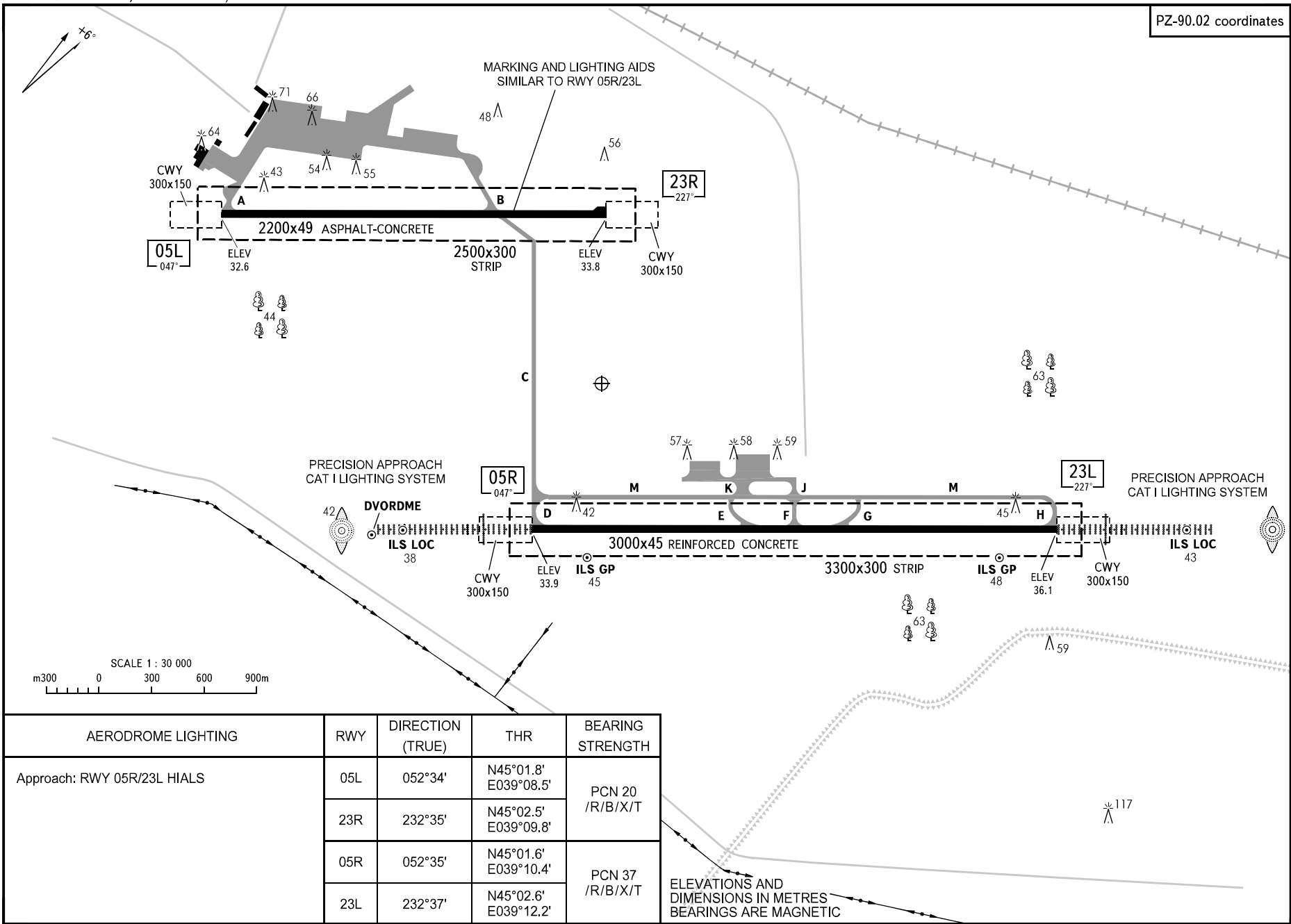
TOWER RWY 05L/23R 120.6
RWY 05R/23L 118.2
GROUND 119.0

KRASNODAR, RUSSIA

PASHKOVSKIY

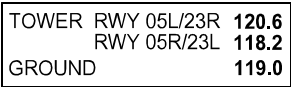
PZ-90.02 coordinates

CHANGE: DVORDME, LGT RWY 05L/23R



AERODROME LIGHTING	RWY	DIRECTION (TRUE)	THR	BEARING STRENGTH
Approach: RWY 05R/23L HIALS	05L	052°34'	N45°01.8' E039°08.5'	PCN 20 /R/B/X/T
	23R	232°35'	N45°02.5' E039°09.8'	
	05R	052°35'	N45°01.6' E039°10.4'	PCN 37 /R/B/X/T
	23L	232°37'	N45°02.6' E039°12.2'	

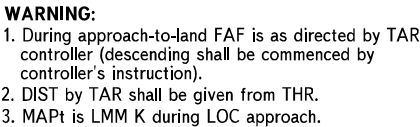
KRASNODAR, RUSSIA
PASHKOVSKIY



STANDS:			ACFT types:	STANDS:
Strength: 1, 2, 6-11	- PCN 42/R/C/X/T (mixed)		Yak-42, foreign-made ACFT with a wingspan of not more than 34.88m, not more than 37.1m long, Mi-8 HEL	1, 2, 5
5	- PCN 33/R/C/X/T (mixed)		Yak-40, foreign-made ACFT with a wingspan of not than 25.0m, not more than 21.0m long	VIP2
12-13	- PCN 18/R/B/X/T (mixed)		Tu-134, Il-18, An-8, An-12, An-24, An-26, An-28, An-30, An-72, An-74, A-319-100, A-320-200, B737-300, B737-400, B737-500, B737-700, An-140, An-148, SAAB-2000, CRJ, F-70, F-72, F-100 with a wingspan of not more than 40.41m, not more than 37.6m long, Ka-32 HEL, Mi-8 HEL	6
14-21, 42, 43	- PCN 28/R/C/X/T (mixed)		Tu-154, Tu-134, Il-18, An-12, An-8, An-24, An-26, An-28, An-30, An-32, An-72, An-74, A-319-100, A-320-200, B737-300, B737-400, B737-500, B737-700, B737-800, An-140, An-148, B757-200, EMB-195, SAAB-2000, CRJ, F-70, F72, F-100 with a wingspan of more than 38.06m, not more than 47.9m long, Ka-32 HEL, Mi-8 HEL	7-13
22-27	- PCN 31/R/B/X/T		An-24, An-26, An-28, An-30, An-32, An-140 foreign-made ACFT with a wingspan of not more than 29.2m, not more than 23.9m long	14-17
28-33	- PCN 20/R/B/X/T		Mi-8 HEL with a wingspan of not more 21.3m, not more than 25.2m long	18
34-38	- PCN 27/R/B/X/T		An-24, An-26, An-28, An-30, An-32, An-140, foreign-made ACFT with a wingspan of not more than 29.2m, not more than 25.9m long	19-21
VIP1-VIP2	- PCN 20/F/D/X/T		Tu-154, Tu-204-300, Il-18, An-12, A-319-100, A-320-200, B737-300, B737-400, B737-500, B737-700, B737-800, B757-200, E-195, An-148, SAAB-2000, foreign-made ACFT with a wingspan of not more than 42.0m, not more than 53.5m long	22-26
44-48	- PCN 44/R/B/X/T		Tu-154, Tu-204-300, Il-18, An-12, A-319-100, A-320-200, B737-300, B737-400, B737-500, B737-700, B737-800, B757-200, EMB-195, An-148, SAAB-2000, foreign-made ACFT with a wingspan of not more than 44.0m, not more than 53.5m long	27
STAND	COORDINATES	DIRECTION (MAG)	Yak-42, Tu-134, A-319-100, A-320-200, B737-300, B737-400, B737-500, B737-700, An-72, An-74, An-148, Mi-8 HEL, MBT, foreign-made ACFT with a wingspan of not more than 34.88m, not more than 37.57m long	28-38
VIP 1	N45 01.9 E039 08.3	079°20'	AVBL as stands of special designation for parking of An-24, An-26, An-30, Yak-40, Mi-8 HEL only by towing	39-41
6	N45 02.1 E039 08.4	325°03'	An-2	42, 43
11	N45 02.1 E039 08.6	324°34'	Il-76, Tu-154, Tu-204-300, A-319-100, A-320-200, B737-800, B757-200, EMB-195, foreign-made ACFT with a wingspan of not more than 50.5m, not more than 47.9m long	44-48
25	N45 02.3 E039 09.0	144°57'	Il-62M	46-48
29	N45 02.0 E039 08.5	324°54'		

CHANGE: NIL

KRASNODAR, RUSSIA
PASHKOVSKIY
ILS, LOC RWY 05R

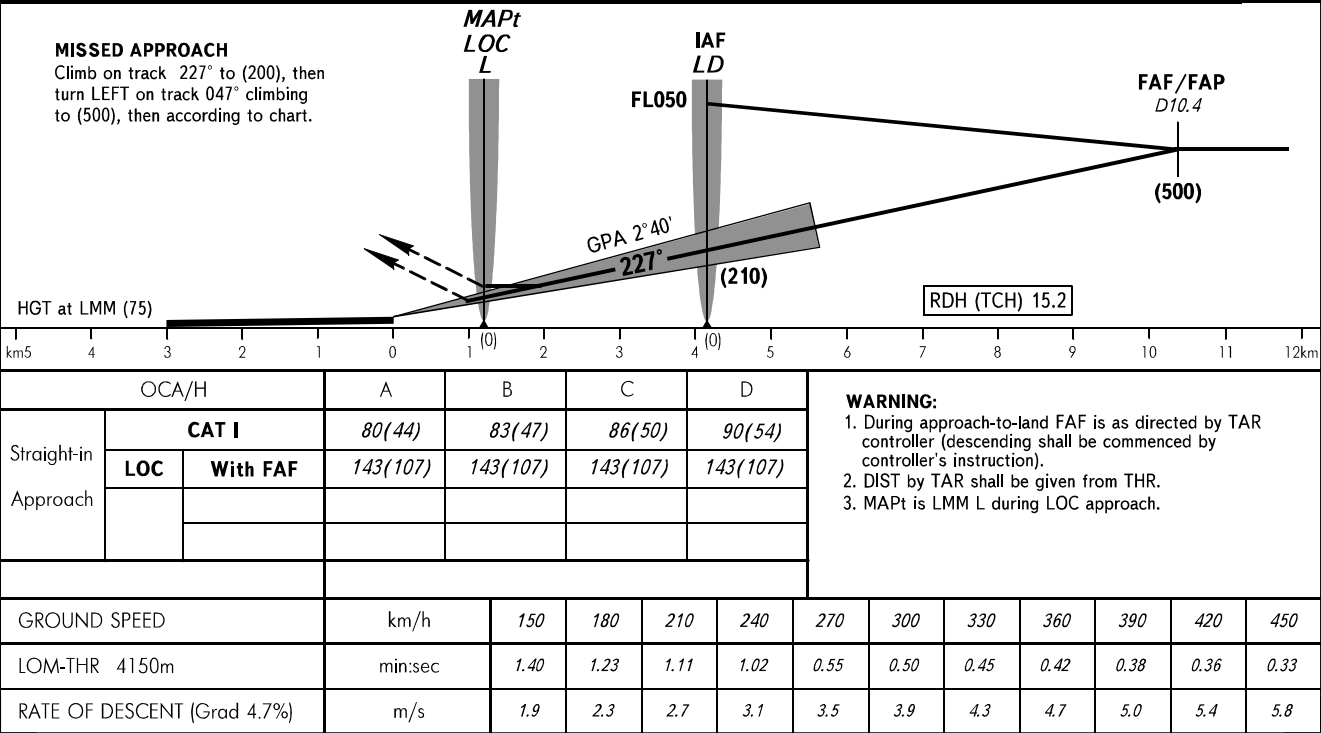
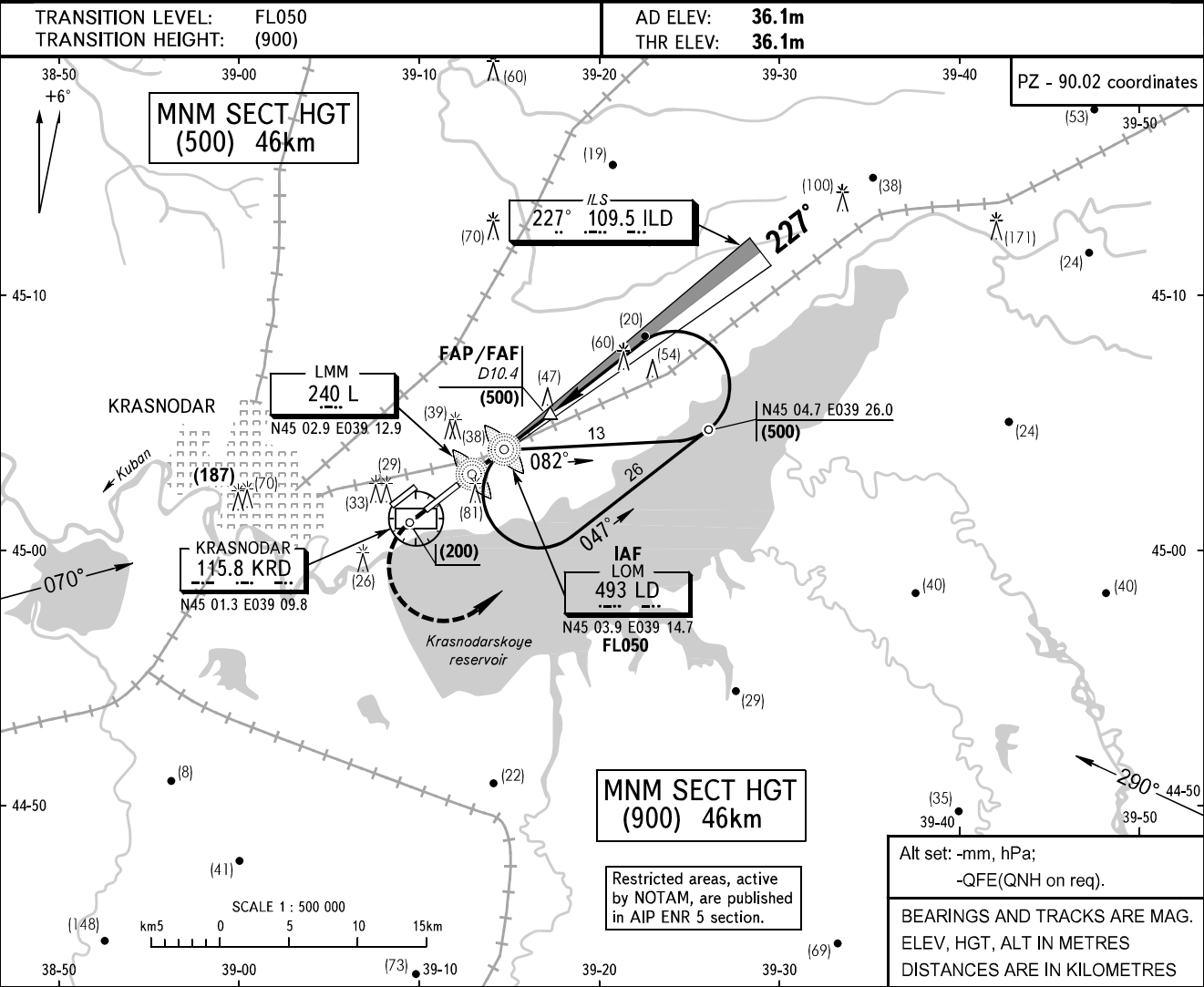


OCA/H		A	B	C	D	WARNING: 1. During approach-to-land FAF is as directed by TAR controller (descending shall be commenced by controller's instruction). 2. DIST by TAR shall be given from THR. 3. MAPt is LMM K during LOC approach.									
Straight-in Approach	CAT I		79(45)	82(48)	85(51)										88(54)
	LOC	With FAF	140(106)	140(106)	140(106)										140(106)
GROUND SPEED		km/h	150	180	210	240	270	300	330	360	390	420	450		
LOM-THR 4030m		min:sec	1.37	1.21	1.09	1.00	0.54	0.48	0.44	0.40	0.37	0.35	0.32		
RATE OF DESCENT (Grad 4.7%)		m/s	1.9	2.3	2.7	3.1	3.5	3.9	4.3	4.7	5.0	5.4	5.8		

INSTRUMENT
APPROACH
CHART - ICAO

RADAR121.3
TOWER RWY 05L/23R120.6
RWY 05R/23L118.2

KRASNODAR, RUSSIA
PASHKOVSKIY
ILS, LOC RWY 23L



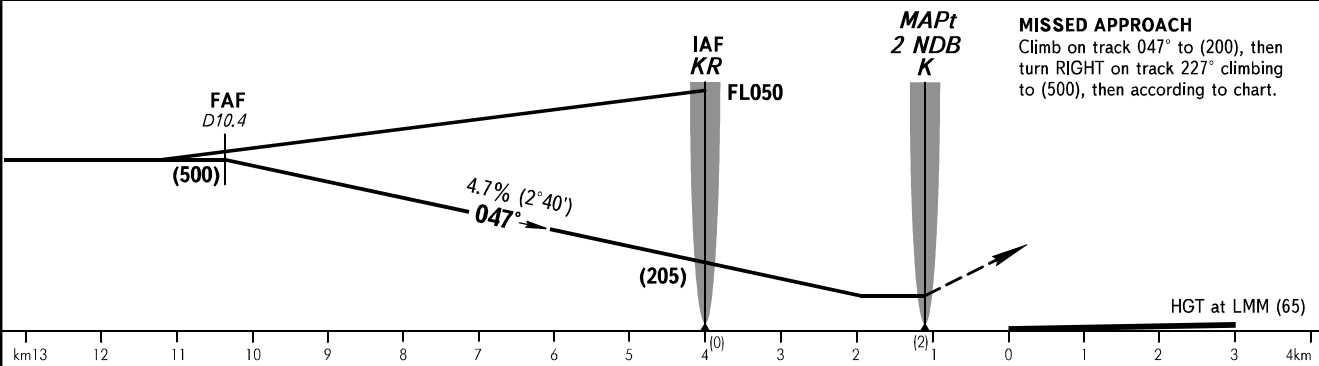
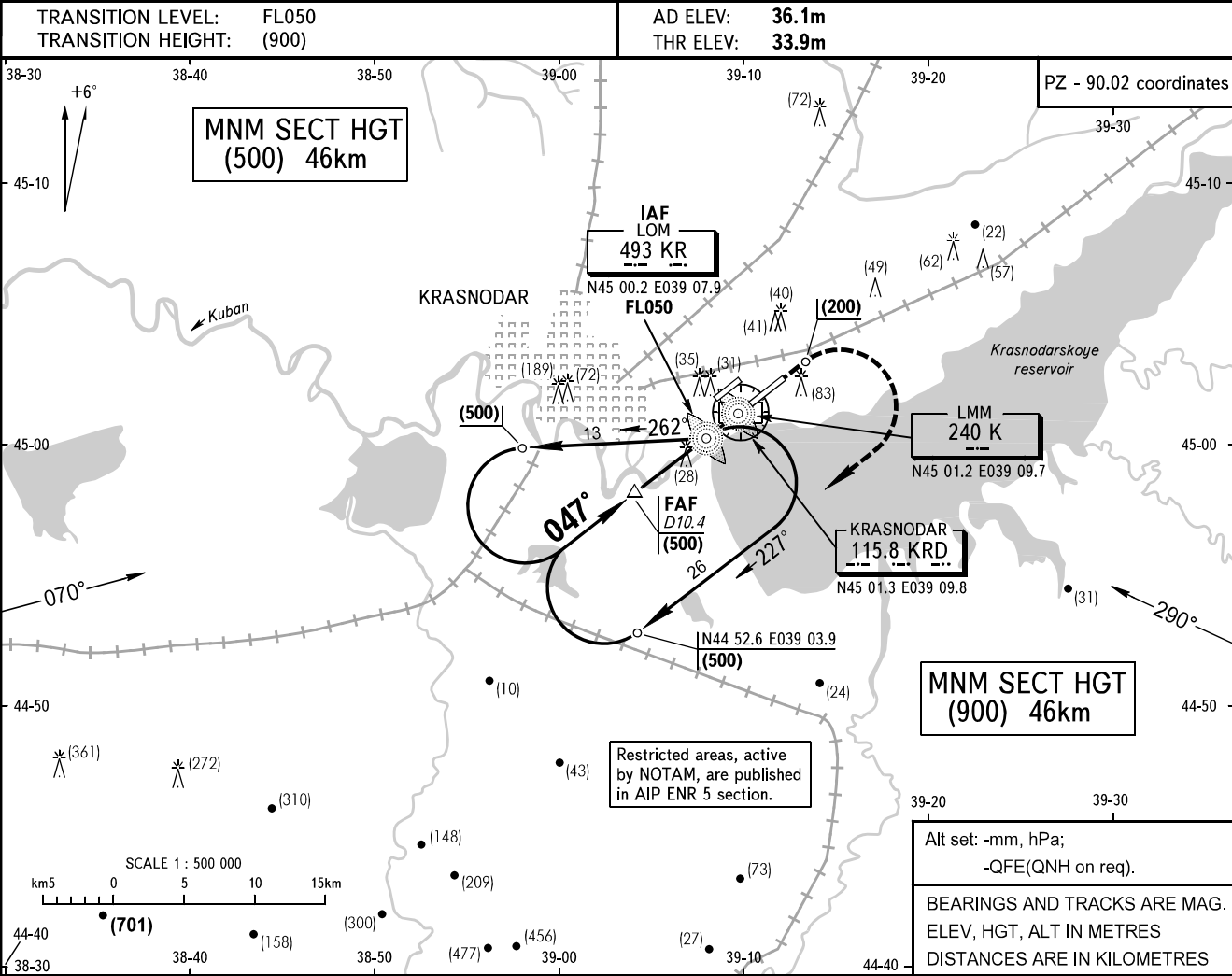
INSTRUMENT
APPROACH
CHART - ICAO

RADAR121.3

TOWER RWY 05L/23R120.6

RWY 05R/23L118.2

KRASNODAR, RUSSIA
PASHKOVSKIY
2 NDB RWY 05R



OCA/H			A	B	C	D	WARNING: 1. During approach-to-land FAF is as directed by TAR controller (descending shall be commenced by controller's instruction). 2. DIST by TAR shall be given from THR.								
Straight-in Approach	2 NDB	With FAF	140(106)	140(106)	140(106)	140(106)									
		WO FAF	140(106)	140(106)	140(106)	140(106)									
	LOM	With FAF	146(112)	146(112)	146(112)	146(112)									
		WO FAF	245(211)	245(211)	245(211)	245(211)									
	LMM	With FAF	170(136)	170(136)	170(136)	170(136)									
		WO FAF	245(211)	245(211)	245(211)	245(211)									
GROUND SPEED			km/h	150	180	210	240	270	300	330	360	390	420	450	
LOM-THR 4030m			min:sec	1.37	1.21	1.09	1.00	0.54	0.48	0.44	0.40	0.37	0.35	0.32	
RATE OF DESCENT			m/s	1.9	2.3	2.7	3.1	3.5	3.9	4.3	4.7	5.0	5.4	5.8	

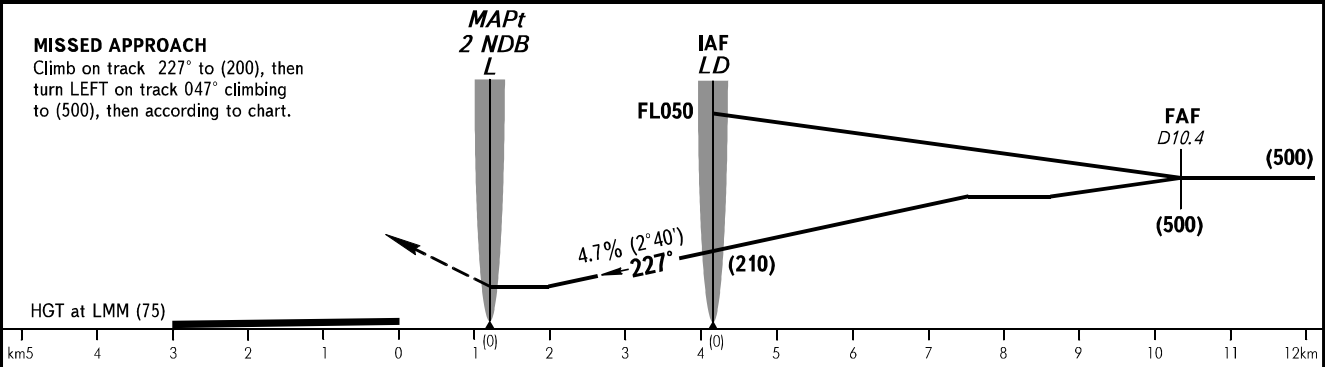
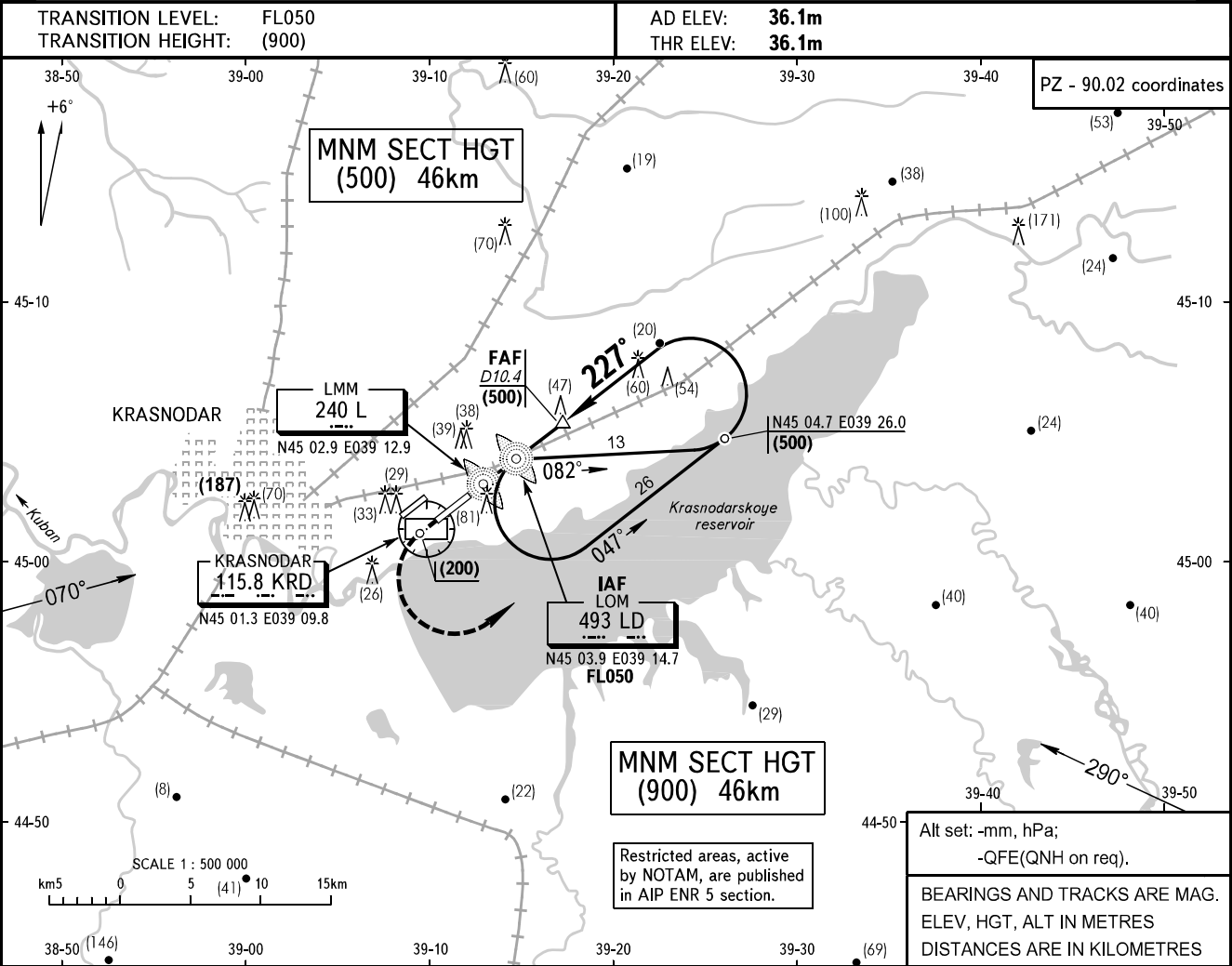
INSTRUMENT
APPROACH
CHART - ICAO

RADAR121.3

TOWER RWY 05L/23R120.6

RWY 05R/23L118.2

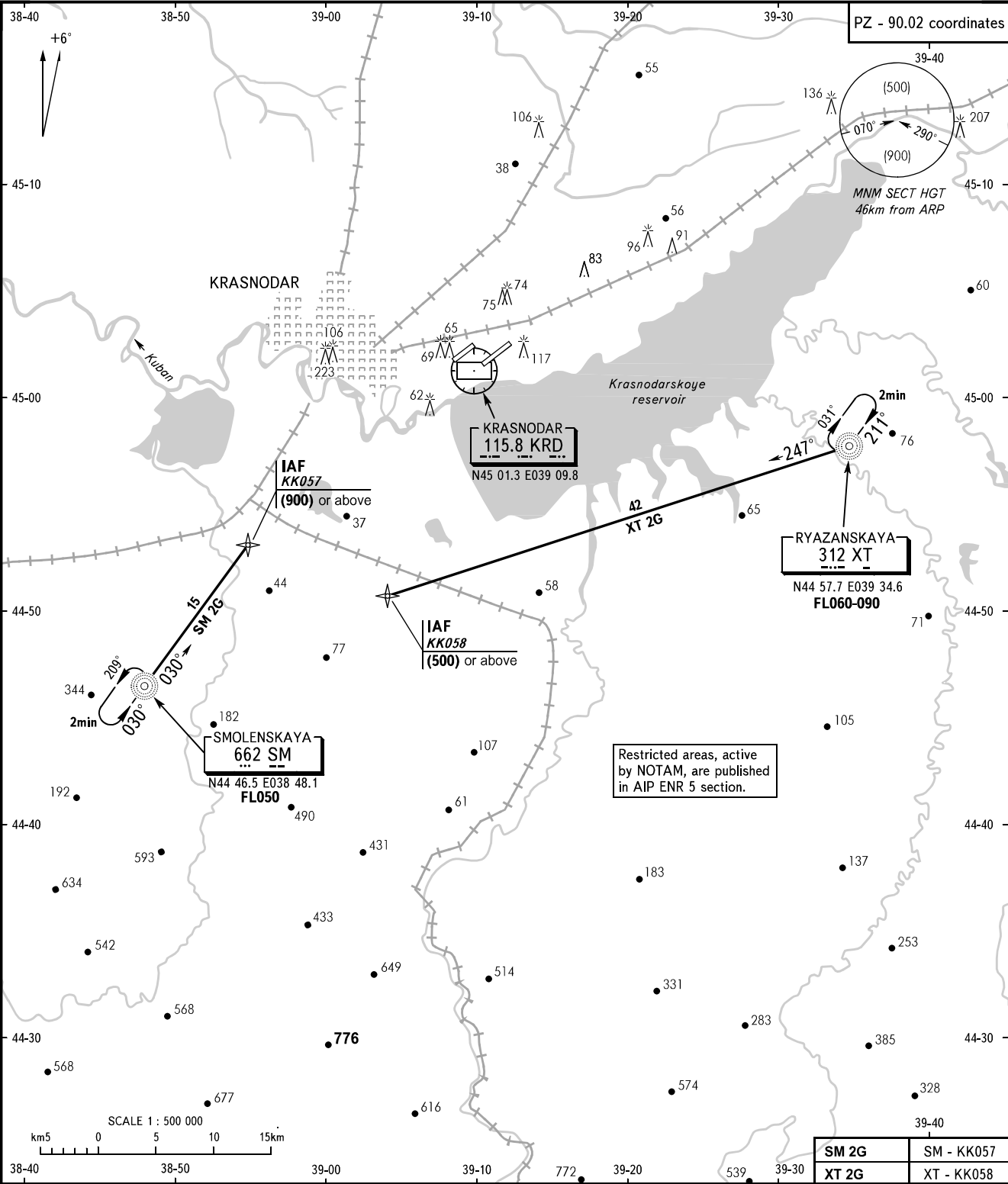
KRASNODAR, RUSSIA
PASHKOVSKIY
2 NDB RWY 23L



STANDARD ARRIVAL CHART
INSTRUMENT (STAR) - ICAO

TRANSITION
LEVEL : **FL050**

KRASNODAR, RUSSIA
PASHKOVSKIY
RNAV GNSS RWY 05L/05R



APPROACH	0500-1900	Sector EAST up to 6000m	129.6
		Sector WEST up to 6000m	127.7
	1900-0500	Sector 000°-360°	129.6
RADAR			121.3
TOWER RWY 05L/23R			120.6
RWY 05R/23L			118.2

BEARINGS AND TRACKS ARE MAGNETIC
ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES
DISTANCES ARE IN KILOMETRES

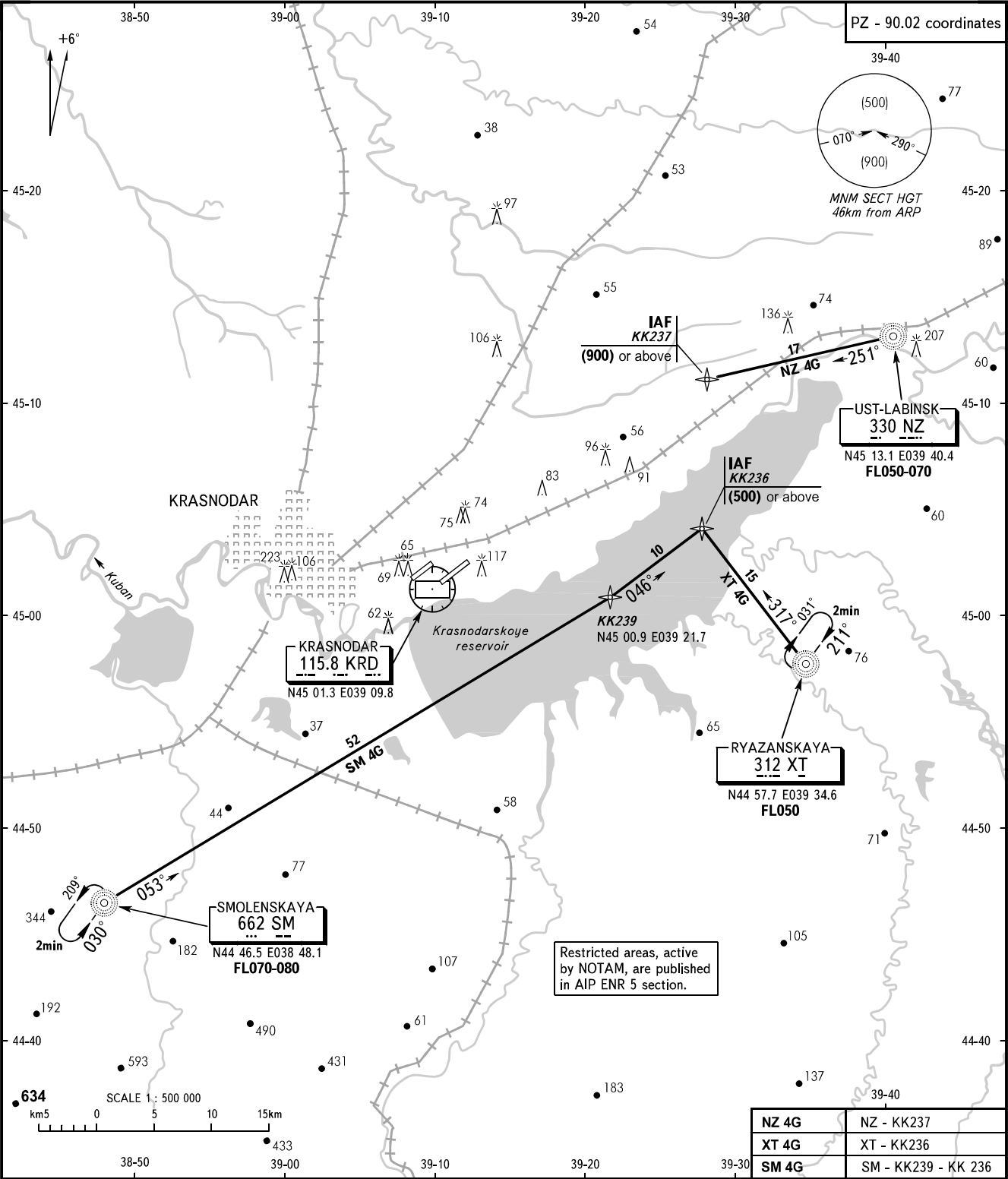
WARNING:

- Arrival and approach-to-land using RNAV procedure based on navigation satellite system GLONASS-GPS are available in the presence of permission (license) given by Federal Air Transport Agency of Ministry of Transport of Russia.
- ACFT crew shall request the permission for GNSS approach from APP controller when passing reporting point of entry corridor.

STANDARD ARRIVAL CHART
INSTRUMENT (STAR) - ICAO

TRANSITION
LEVEL : **FL050**

KRASNODAR, RUSSIA
PASHKOVSKIY
RNAV GNSS RWY 23L/23R



APPROACH	0500-1900	Sector EAST up to 6000m	129.6
		Sector WEST up to 6000m	127.7
	1900-0500	Sector 000°-360°	129.6
RADAR			121.3
TOWER RWY 05L/23R			120.6
RWY 05R/23L			118.2

BEARINGS AND TRACKS ARE MAGNETIC
ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES
DISTANCES ARE IN KILOMETRES

WARNING:

- Arrival and approach-to-land using RNAV procedure based on navigation satellite system GLONASS-GPS are available in the presence of permission (license) given by Federal Air Transport Agency of Ministry of Transport of Russia.
- ACFT crew shall request the permission for GNSS approach from APP controller when passing reporting point of entry corridor.

AIRAC AMDT 12/11

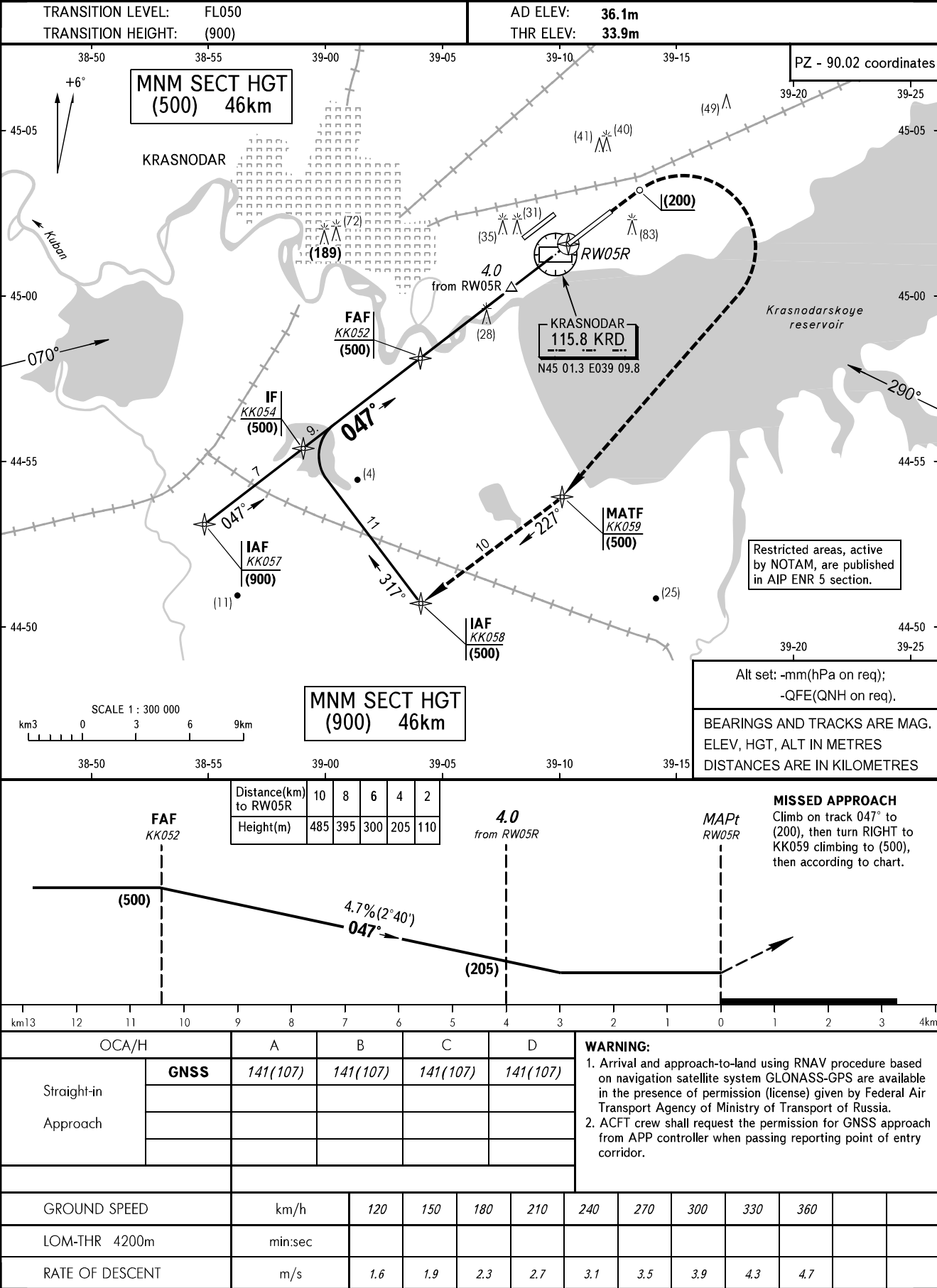
Federal Air Transport Agency

CHANGE: FL, DVOR/DME

INSTRUMENT
APPROACH
CHART - ICAO

RADAR121.3
TOWER RWY 05R/23L118.2

KRASNODAR, RUSSIA
PASHKOVSKIY
RNAV GNSS RWY 05R



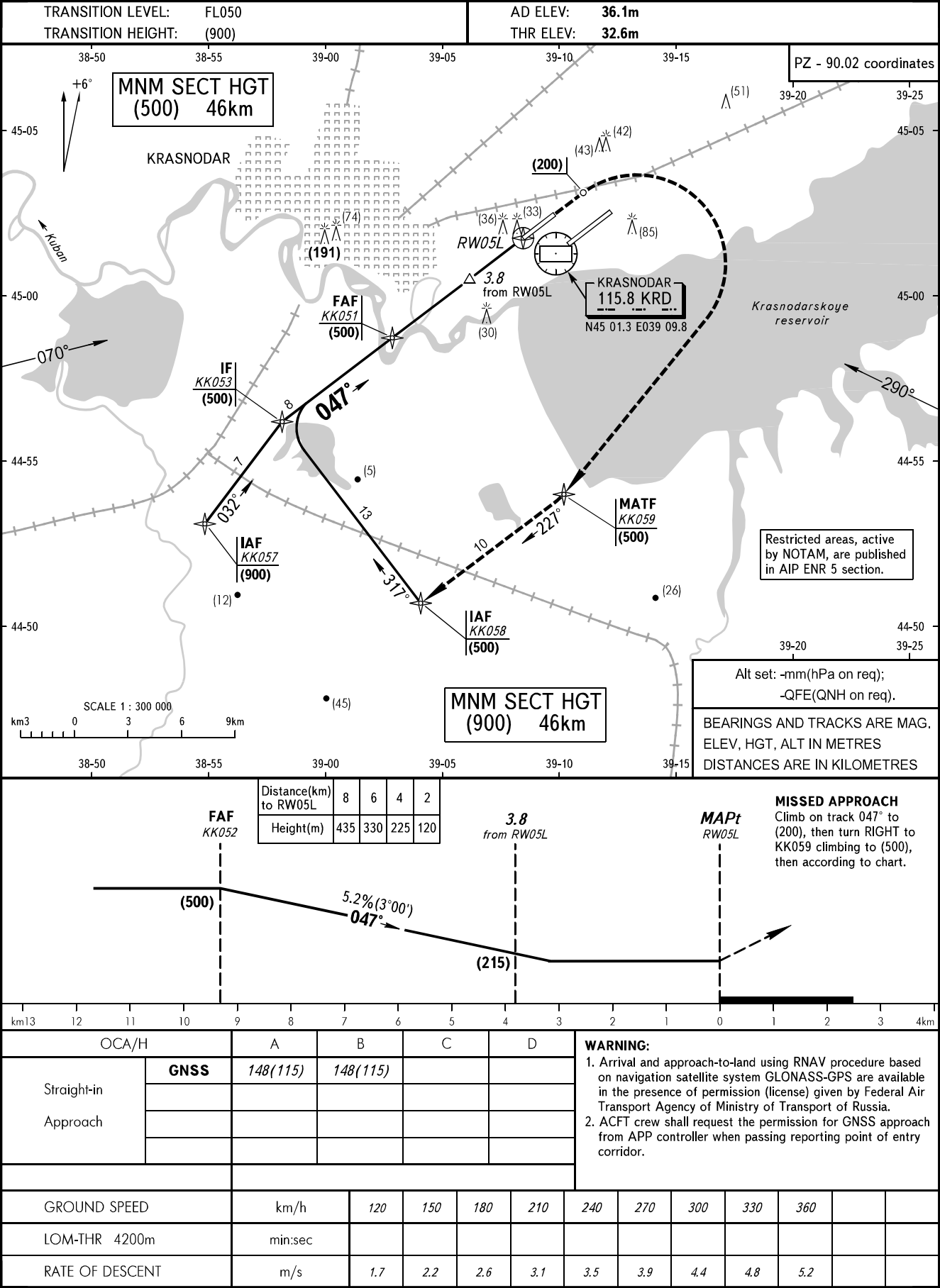
CHANGE: FL, DVORIME

INSTRUMENT
APPROACH
CHART - ICAO

RADAR
TOWER RWY 05L/23R

121.3
120.6

KRASNODAR, RUSSIA
PASHKOVSKIY
RNAV GNSS RWY 05L

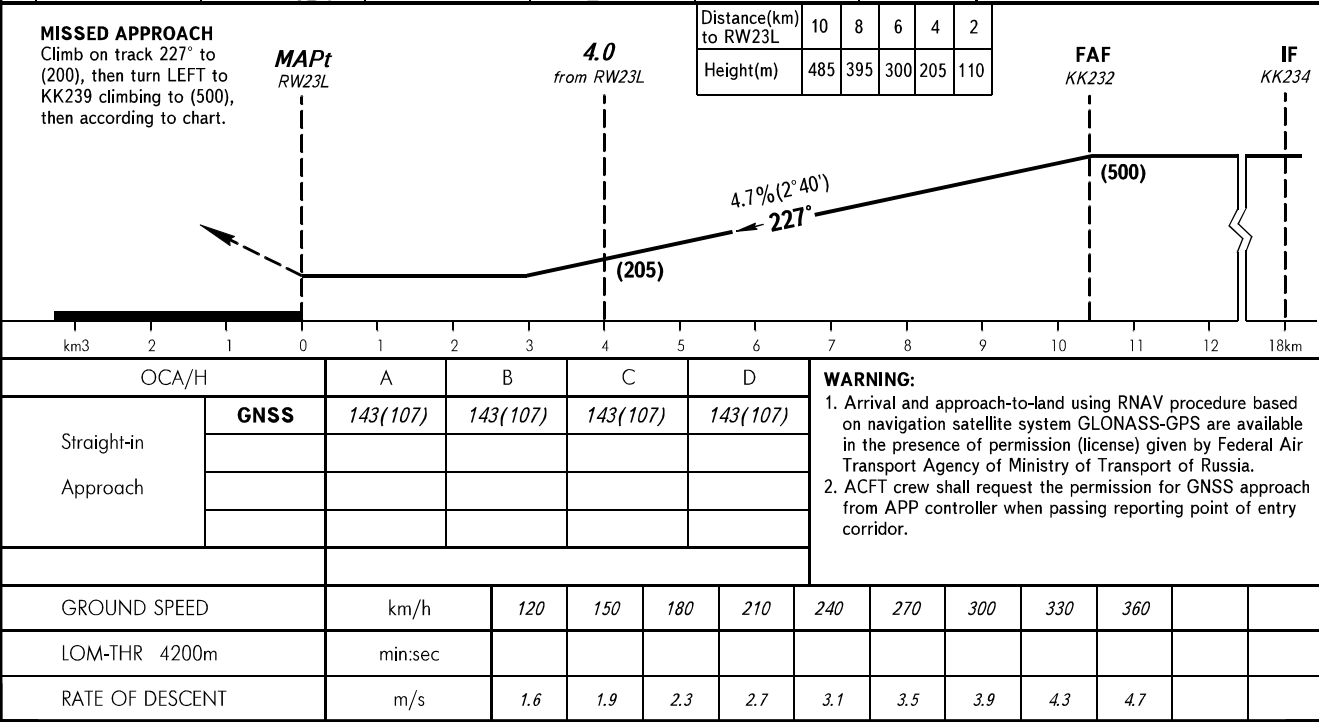
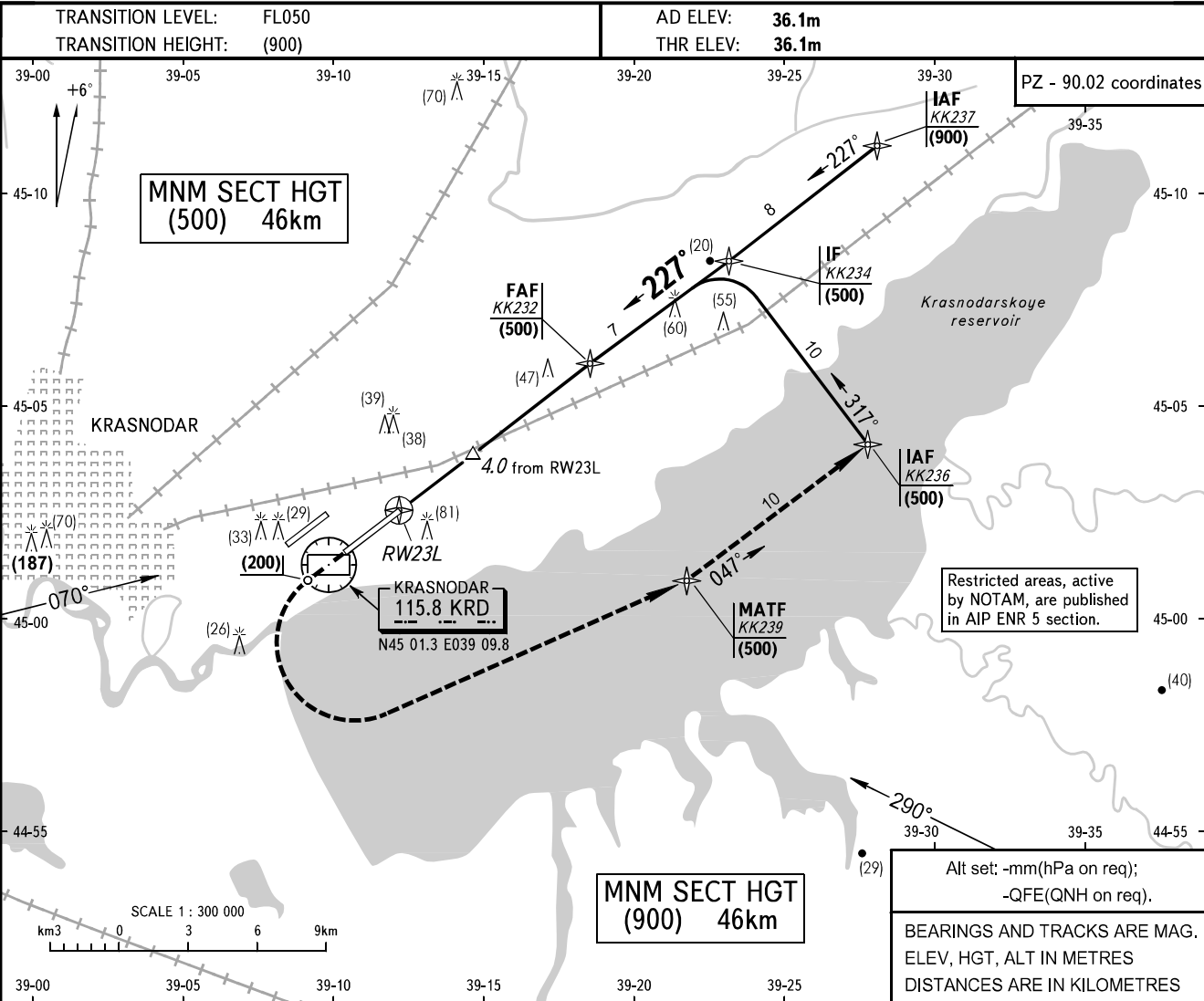


INSTRUMENT
APPROACH
CHART - ICAO

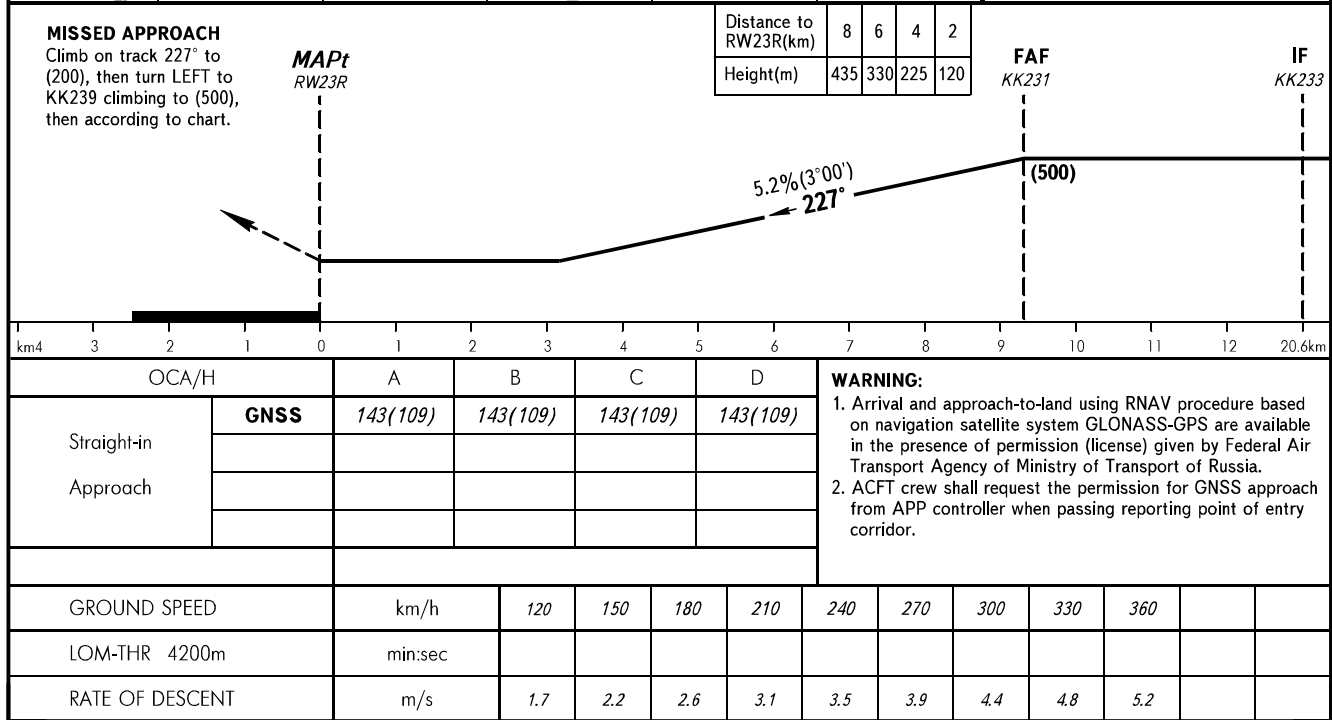
RADAR
TOWER RWY 05R/23L

121.3
118.2

KRASNODAR, RUSSIA
PASHKOVSKIY
RNAV GNSS RWY 23L

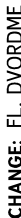


KRASNODAR, RUSSIA
PASHKOVSKIY
RNAV GNSS RWY 23R



CHANGE: FL, DVORDME

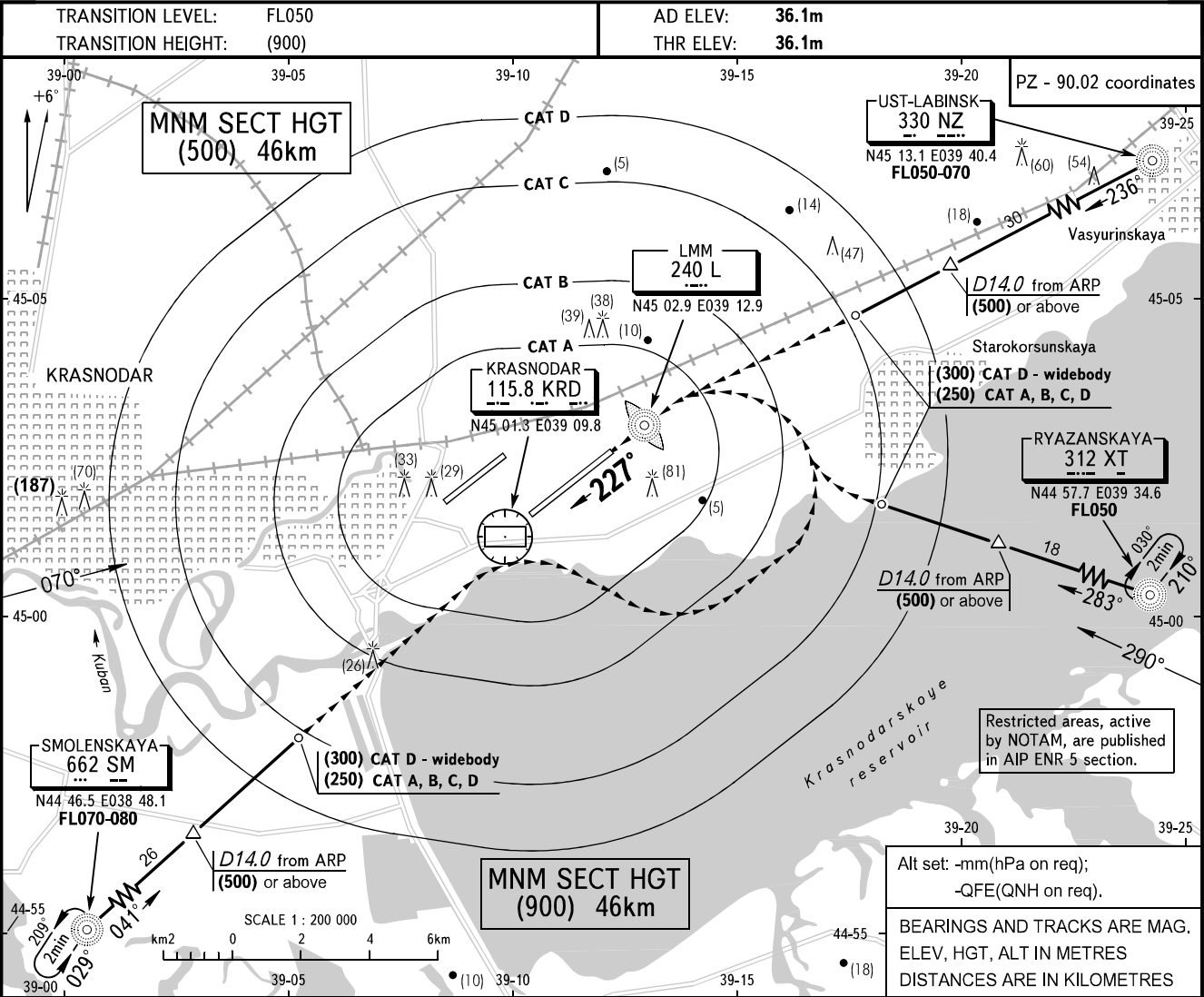
KRASNODAR, RUSSIA
PASHKOVSKIY
CIRCLING RWY 05L/05R



INSTRUMENT
APPROACH
CHART - ICAO

RADAR121.3
TOWER RWY 05L/23R120.6
RWY 05R/23L118.2

KRASNODAR, RUSSIA
PASHKOVSKIY
CIRCLING RWY 23L



MISSED APPROACH
Climb on track 227° to (200), then turn LEFT on track 047° climbing to (250/300) during VFR approach or (500) during IFR approach and then according to chart.

OCA/H		A	B	C	D	D-widebody
Visual Manoeuvring (Circling) Area	RWY 23L	207(171)	207(171)	255(219)	255(219)	255(219)
ACFT CAT		A	B	C	D	D-widebody
MET conditions	MDH, m	180	180	220	220	300
	Cloud base, m	300	300	350	350	400
	Visibility, m	3000	3000	3000	4000	5000

WARNING:
1. During visual manoeuvring flights over the city are PROHIBITED.
2. The radiuses of visual manoeuvring (circling) area for ACFT categories are as follows:
A - 3120m
B - 4980m
C - 7850m
D - 9790m

CHANGE: FL, DVOROME