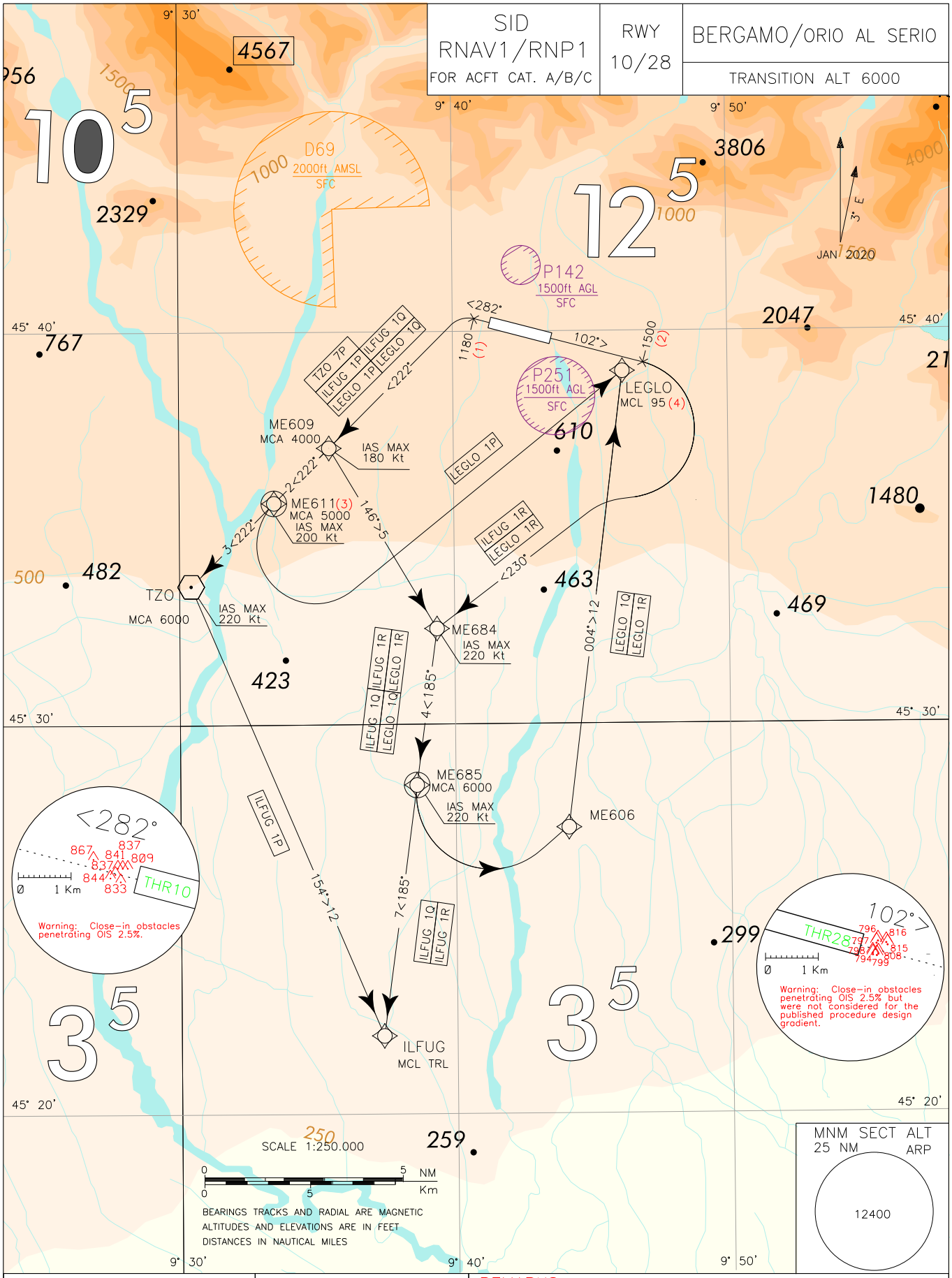
SID RNAV1/RNP1 FOR ACFT CAT. A/B/C

RWY 10/28

BERGAMO/ORIO AL SERIO

TRANSITION ALT 6000

CHANGE: ATIS FREQUENCY UPDATED



FREQUENCIES

TWR	Orio TWR	125.875 (CH 134.105)
APP	Milano Radar	(126.300)
(SID via SRN only)		126.750
ATIS	Bergamo ATIS Information	118.540

LEGEND

ICP

SID

SID ATC discretion

Not to Scale

REMARKS

1) Turns leaving 1180 ft shall be performed with IAS MAX 180 Kt and bank angle 25° in order to follow as close as possible the nominal trajectory.
2) Turns leaving 1500 ft shall be executed with IAS MAX 200 Kt
3) Waypoint only for LEGLO 1P
4) MCL120 only for Transition Segment to Enroute direct to DILEB

SIDs RNAV1/RNP1 FOR ACFT CAT A, B & C RWY 10/28 DESCRIPTION

Noise abatement procedures

The following initial climb procedures and SIDs will be used as noise mitigation measure.

Provision of Italian Civil Aviation Authority reported in ENR 1.5 apply.

SIDs RWY 10

WARNING
There are close-in obstacles penetrating OIS 2.5% but they were not considered for the published procedure design gradient.

ILFUG 1R

Minimum climb gradient: 4,9% (300 ft/NM).

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	102° (104.9)	-	-	-	+1500	-200	RNAV1/RNP1 (1)
CF	ME684	-	230° (233.0)	3 E	-	-	-	-220	RNAV1/RNP1 (1)
TF	ME685	Y	185° (187.7)	-	4.0	-	+6000	-220	RNAV1/RNP1 (1)
TF	ILFUG	-	185° (187.8)	-	6.5	-	+TRL	-220	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

LEGLO 1R

Minimum climb gradient: 4,9% (300 ft/NM) until leaving 6000 ft.

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	102° (104.9)	-	-	-	+1500	-200	RNAV1/RNP1 (1)
CF	ME684	-	230° (233.0)	3 E	-	-	-	-220	RNAV1/RNP1 (1)
CF	ME685	Y	185° (187.7)	3 E	4.0	-	+6000	-220	RNAV1/RNP1 (1)
DF	ME606	-	-	-	-	L	-	-220	RNAV1/RNP1 (1)
TF	LEGLO	-	004° (007.1)	-	11.8	-	+FL95 (2)	-220	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) FL120 only for Transition Segment to Enroute direct to DILEB

SIDs RWY 28

REMARK
Turns leaving 1180 FT shall be executed with bank angle 25° in order to follow as close as possible the nominal trajectory.

WARNING
There are close-in obstacles penetrating OIS 2.5%.

ILFUG 1P

Minimum climb gradient: 9.0% (550 ft/NM) until leaving 6000 ft.

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	282° (284.9)	-	-	-	+1180	-180	RNAV1/RNP1 (1)
CF	ME609	-	222° (225.1)	3 E	-	-	+4000	-180	RNAV1/RNP1 (1)
TF	TZO	-	222° (225.1)	-	5.0	-	+ 6000	-220	RNAV1/RNP1 (1)
TF	ILFUG	-	154° (157.0)	-	12.4	-	+TRL	-220	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

ILFUG 1Q (ATC discretion)

Minimum climb gradient: 9.0% (550 ft/NM) until leaving 5000 ft.

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	282° (284.9)	-	-	-	+1180	-180	RNAV1/RNP1 (1)
CF	ME609	-	222° (225.1)	3 E	-	-	+4000	-180	RNAV1/RNP1 (1)
CF	ME684	-	146° (149.4)	3 E	5.4	-	-	-220	RNAV1/RNP1 (1)
TF	ME685	Y	185° (187.7)	-	4.0	-	+6000	-220	RNAV1/RNP1 (1)
TF	ILFUG	-	185° (187.8)	-	6.5	-	+TRL	-220	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

LEGLO 1P

Minimum climb gradient: 9.0% (550 ft/NM).

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	282° (284.9)	-	-	-	+1180	-180	RNAV1/RNP1 (1)
CF	ME609	-	222° (225.1)	3 E	-	-	+4000	-180	RNAV1/RNP1 (1)
CF	ME611	Y	222° (225.1)	3 E	2.0	-	+5000	-200	RNAV1/RNP1 (1)
DF	LEGLO	-	-	-	-	L	+FL95 (2)	-200	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) FL120 only for Transition Segment to Enroute direct to DILEB.

LEGLO 1Q

Minimum climb gradient: 9.0% (550 ft/NM) until leaving 5000 ft.

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	282° (284.9)	-	-	-	+1180	-180	RNAV1/RNP1 (1)
CF	ME609	-	222° (225.1)	3 E	-	-	+4000	-180	RNAV1/RNP1 (1)
CF	ME684	-	146° (149.4)	3 E	5.4	-	-	-220	RNAV1/RNP1 (1)
CF	ME685	Y	185° (187.7)	3 E	4.0	-	+6000	-220	RNAV1/RNP1 (1)
DF	ME606	-	-	-	-	L	-	-220	RNAV1/RNP1 (1)
TF	LEGLO	-	004° (007.1)	-	11.7	-	+FL95 (2)	-220	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) FL120 only for Transition Segment to Enroute direct to DILEB.

TZO 7P

Minimum climb gradient: 9.0% (550 ft/NM).

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	282° (284.9)	-	-	-	+1180	-180	RNAV1/RNP1 (1)
CF	ME609	-	222° (225.1)	3 E	-	-	+4000	-180	RNAV1/RNP1 (1)
TF	TZO	-	222° (225.1)	-	5.0	-	+6000	-220	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

WAYPOINT LIST

Waypoint Identifier	Coordinates
ME606	45°27’21.65” N 009°44’06.22” E
ME609	45°37’05.05” N 009°35’27.98” E
ME611	45°35’40.45” N 009°33’27.01” E
ME684	45°32’27.39” N 009°39’21.48” E
ME685	45°28’27.57” N 009°38’35.36” E

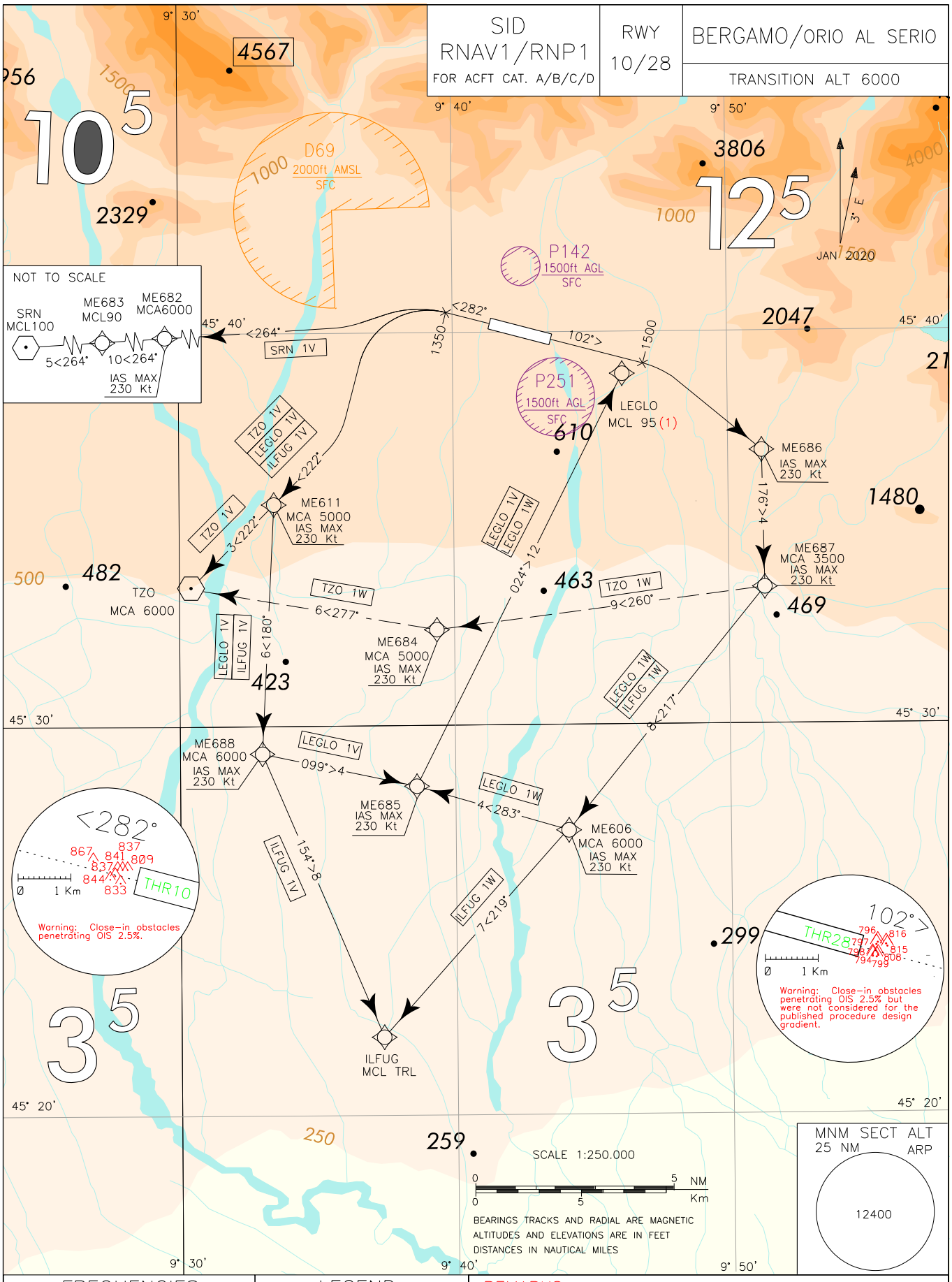
SID RNAV1/RNP1 FOR ACFT CAT. A/B/C/D

RWY 10/28

BERGAMO/ORIO AL SERIO

TRANSITION ALT 6000

CHANGE: ATIS FREQUENCY UPDATED



FREQUENCIES

TWR	Orio TWR	125.875 (CH 134.105)
APP	Milano Radar	(126.300)
(SID via SRN only)		126.750
ATIS	Bergamo ATIS Information	118.540

LEGEND

ICP

SID

SID ATC discretion

Not to Scale

REMARKS

1) MCL120 only for Transition Segment to Enroute direct to DILEB

SIDs RNAV1/RNP1 FOR ACFT CAT A, B, C & D RWY 10/28 DESCRIPTION

Noise abatement procedures

The following initial climb procedures and SIDs will be used as noise mitigation measure.

Provision of Italian Civil Aviation Authority reported in ENR 1.5 apply.

SIDs RWY 10

WARNING
There are close-in obstacles penetrating OIS 2.5% but they were not considered for the published procedure design gradient.

ILFUG 1W

Minimum climb gradient: 4.9% (300 ft/NM).

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	102° (104.9)	-	-	-	+1500	-230	RNAV1/RNP1 (1)
DF	ME686	-	-	-	-	-	-	-230	RNAV1/RNP1 (1)
TF	ME687	-	176° (179.1)	-	3.5	-	+3500	-230	RNAV1/RNP1 (1)
TF	ME606	-	217° (219.6)	-	8.0	-	+6000	-230	RNAV1/RNP1 (1)
TF	ILFUG	-	219° (221.9)	-	7.1	-	+TRL	-230	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

LEGLO 1W

Minimum climb gradient: 4.9% (300 ft/NM).

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	102° (104.9)	-	-	-	+1500	-230	RNAV1/RNP1 (1)
DF	ME686	-	-	-	-	-	-	-230	RNAV1/RNP1 (1)
TF	ME687	-	176° (179.1)	-	3.5	-	+3500	-230	RNAV1/RNP1 (1)
TF	ME606	-	217° (219.6)	-	8.0	-	+6000	-230	RNAV1/RNP1 (1)
TF	ME685	-	283° (285.8)	-	4.0	R	-	-230	RNAV1/RNP1 (1)
TF	LEGLO	-	024° (026.7)	-	11.8	-	+FL95 (2)	-230	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) FL120 only for Transition Segment to Enroute direct to DILEB.

TZO 1W (ATC discrection)

Minimum climb gradient: 4.9% (300 ft/NM) until leaving 3500FT.

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	102° (104.9)	-	-	-	+1500	-230	RNAV1/RNP1 (1)
DF	ME686	-	-	-	-	-	-	-230	RNAV1/RNP1 (1)
TF	ME687	-	176° (179.1)	-	3.5	-	+3500	-230	RNAV1/RNP1 (1)
TF	ME684	-	260° (263.0)	-	8.5	-	+ 5000	-230	RNAV1/RNP1 (1)
TF	TZO	-	277° (280.0)	-	6.4	-	+6000	-230	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

SIDs RWY 28

REMARKS
1. Turns shall be executed with IAS MAX 230 kt.
2. Bank angle: 25° or rate of turn 2°/sec, whichever requires lesser bank.
WARNING
There are close-in obstacles penetrating OIS 2.5%.

ILFUG 1V

Minimum climb gradient: 8.3% (500 ft/NM) until leaving 6000FT.

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	282° (284.9)	-	-	-	+1350	-230	RNAV1/RNP1 (1)
CF	ME611	-	222° (225.1)	3 E	-	-	+5000	-230	RNAV1/RNP1 (1)
TF	ME688	-	180° (183.0)	-	6.4	-	+6000	-230	RNAV1/RNP1 (1)
TF	ILFUG	-	154° (157.0)	-	7.9	-	+TRL	-230	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

LEGLO 1V

Minimum climb gradient: 8.3% (500 ft/NM) until leaving 6000FT.

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	282° (284.9)	-	-	-	+1350	-230	RNAV1/RNP1 (1)
CF	ME611	-	222° (225.1)	3 E	-	-	+5000	-230	RNAV1/RNP1 (1)
TF	ME688	-	180° (183.0)	-	6.4	-	+6000	-230	RNAV1/RNP1 (1)
TF	ME685	-	099° (102.1)	-	4.0	-	-	-230	RNAV1/RNP1 (1)
TF	LEGLO	-	024° (026.7)	-	11.8	-	+FL95 (2)	-230	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) FL120 only for Transition Segment to Enroute direct to DILEB.

SRN 1V

Minimum climb gradient: 8.3% (500 ft/NM) until leaving 4500FT. For ATC reasons, leaving 4500 FT, minimum climb gradient 4.6% (280 ft/NM).

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	282° (284.9)	-	-	-	+1350	-230	RNAV1/RNP1 (1)
CF	ME682	-	264° (266.9)	3 E	-	-	+6000	-230	RNAV1/RNP1 (1)
TF	ME683	-	264° (266.7)	-	10.0	-	+FL90	-230	RNAV1/RNP1 (1)
TF	SRN	-	264° (266.5)	-	4.8	-	+FL100	-230	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

TZO 1V

Minimum climb gradient: 8.3% (500 ft/NM).

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
CA	-	-	282° (284.9)	-	-	-	+1350	-230	RNAV1/RNP1 (1)
CF	ME611	-	222° (225.1)	3 E	-	-	+5000	-230	RNAV1/RNP1 (1)
TF	TZO	-	222° (225.1)	-	3.0	-	+6000	-230	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

WAYPOINT LIST

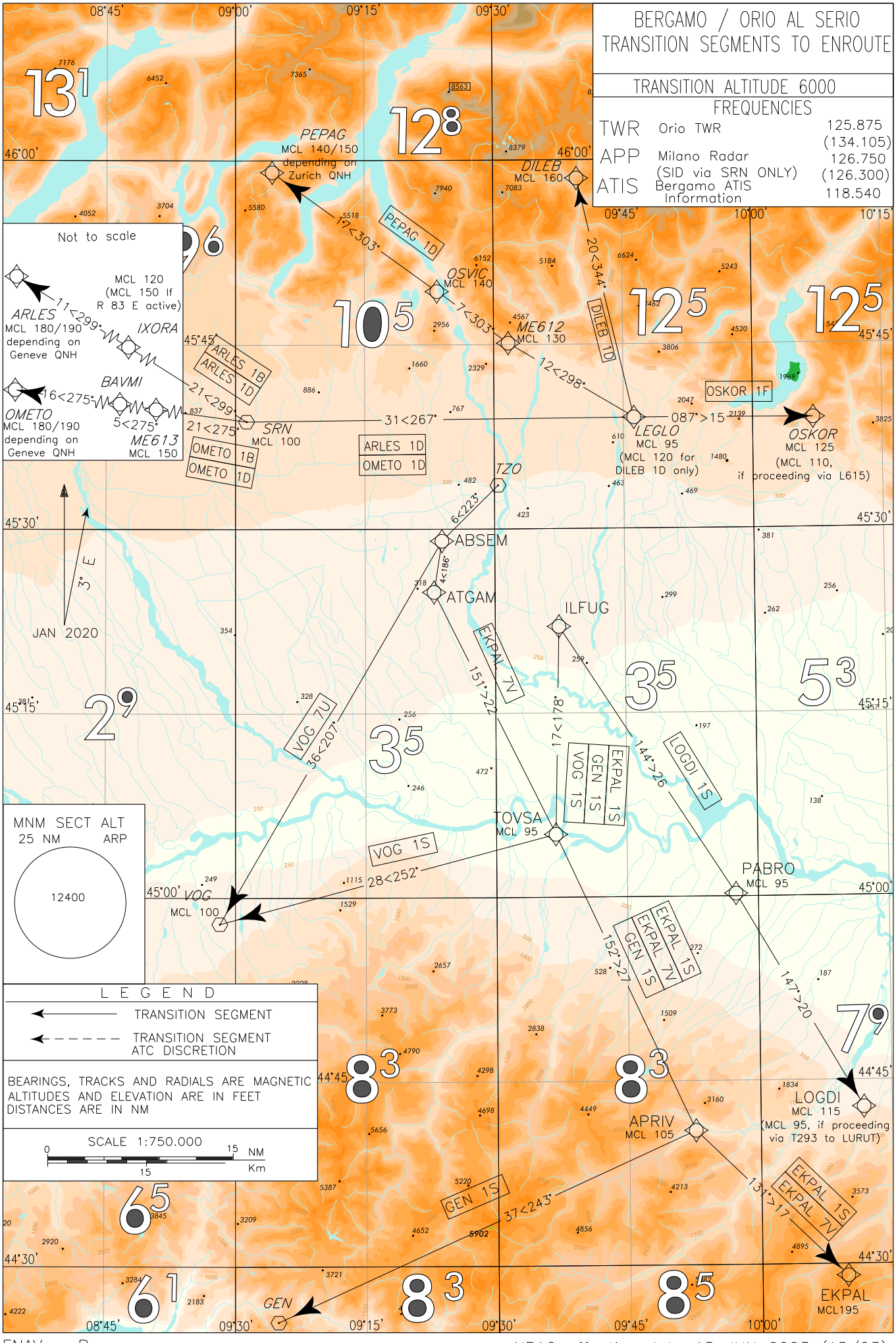
Waypoint Identifier	Coordinates
ME606	45°27'21.65" N 009°44'06.22" E
ME611	45°35'40.45" N 009°33'27.01" E
ME682	45°39'39.21" N 009°22'23.58" E
ME683	45°39'03.44" N 009°08'09.70" E
ME684	45°32'27.39" N 009°39'21.48" E
ME685	45°28'27.57" N 009°38'35.36" E
ME686	45°36'59.96" N 009°51'14.01" E
ME687	45°33'30.02" N 009°51'18.49" E
ME688	45°29'18.24" N 009°32'59.02" E

BERGAMO / ORIO AL SERIO
TRANSITION SEGMENTS TO ENROUTE

TRANSITION ALTITUDE 6000

FREQUENCIES

TWR	Orio TWR	125.875 (134.105)
APP	Milano Radar	126.750
	(SID via SRN ONLY)	(126.300)
ATIS	Bergamo ATIS Information	118.540



CHANGE: ATIS FREQUENCY UPDATED

TRANSITION SEGMENTS TO ENROUTE DESCRIPTION

ARLES 1B

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	SRN	-	-	-	-	-	+FL100	-	RNAV1/RNP1 (1)
TF	IXORA	-	299° (302.3)	-	21.4	-	(2)	-	RNAV1/RNP1 (1)
TF	ARLES	-	299° (301.9)	-	10.5	-	(3)	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) MCL120 or MCL150 if R83 E active
(3) MCL180/190 depending on Geneve QNH

ARLES 1D

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	LEGLO	-	-	-	-	-	+FL95	-	RNAV1/RNP1 (1)
TF	SRN	-	267° (269.8)	-	31.4	-	+FL100	-	RNAV1/RNP1 (1)
TF	IXORA	-	299° (302.3)	-	21.4	-	(2)	-	RNAV1/RNP1 (1)
TF	ARLES	-	299° (301.9)	-	10.5	-	(3)	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) MCL120 or MCL150 if R83 E active
(3) MCL180/190 depending on Geneve QNH

DILEB 1D

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	LEGLO	-	-	-	-	-	+FL120	-	RNAV1/RNP1 (1)
TF	DILEB	-	344° (347.0)	-	20.0	-	+FL160	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

EKPAL 1S

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	ILFUG	-	-	-	-	-	+TRL	-	RNAV1/RNP1 (1)
TF	TOVSA	-	178° (181.2)	-	16.9	-	+FL95	-	RNAV1/RNP1 (1)
TF	APRIV	-	152° (155.1)	-	26.6	-	+FL105	-	RNAV1/RNP1 (1)
TF	EKPAL	-	131° (134.0)	-	17.1	-	+FL195	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

EKPAL 7V

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	TZO	-	-	-	-	-	+6000	-	RNAV1/RNP1 (1)
TF	ABSEM	-	223° (225.5)	-	6.4	-	-	-	RNAV1/RNP1 (1)
TF	ATGAM	-	186° (189.0)	-	4.2	-	-	-	RNAV1/RNP1 (1)
TF	TOVSA	-	151° (153.5)	-	22.0	-	+FL95	-	RNAV1/RNP1 (1)
TF	APRIV	-	152° (155.1)	-	26.6	-	+FL105	-	RNAV1/RNP1 (1)
TF	EKPAL	-	131° (134.0)	-	17.1	-	+FL195	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

GEN 1S

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	ILFUG	-	-	-	-	-	+TRL	-	RNAV1/RNP1 (1)
TF	TOVSA	-	178° (181.2)	-	16.9	-	+FL95	-	RNAV1/RNP1 (1)
TF	APRIV	-	152° (155.1)	-	26.6	-	+FL105	-	RNAV1/RNP1 (1)
TF	GEN	-	243° (245.8)	-	37.4	-	-	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

LOGDI 1S

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	ILFUG	-	-	-	-	-	+TRL	-	RNAV1/RNP1 (1)
TF	PABRO	-	144° (146.8)	-	26.0	-	+FL95	-	RNAV1/RNP1 (1)
TF	LOGDI	-	147° (149.6)	-	20.2	-	+FL115(2)	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) MCL 95 if proceeding via T293 to LURIT

OMETO 1B

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	SRN	-	-	-	-	-	+FL100	-	RNAV1/RNP1 (1)
TF	ME613	-	275° (277.8)	-	21.0		+FL150	-	RNAV1/RNP1 (1)
TF	BAVMI	-	275° (277.8)	-	5.0	-	-	-	RNAV1/RNP1 (1)
TF	OMETO	-	275° (277.5)	-	15.5	-	(2)	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) MCL180/190 depending on Geneve QNH

OMETO 1D

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	LEGLO	-	-	-	-	-	+FL95	-	RNAV1/RNP1 (1)
TF	SRN	-	267° (269.8)	-	31.4	-	+FL100	-	RNAV1/RNP1 (1)
TF	ME613	-	275° (277.8)	-	21.0		+FL150	-	RNAV1/RNP1 (1)
TF	BAVMI	-	275° (277.8)	-	5.0	-	-	-	RNAV1/RNP1 (1)
TF	OMETO	-	275° (277.5)	-	15.5	-	(2)	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) MCL180/190 depending on Geneve QNH

OSKOR 1F

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	LEGLO	-	-	-	-	-	+FL95	-	RNAV1/RNP1 (1)
TF	OSKOR	-	087° (090.2)	-	14.6	-	+FL125(2)	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) MCL 110 if proceeding via L615

PEPAG 1D

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	LEGLO	-	-	-	-	-	+FL95	-	RNAV1/RNP1 (1)
TF	ME612	-	298° (301.1)	-	11.8	-	+FL130	-	RNAV1/RNP1 (1)
TF	OSVIC	-	303° (306.2)	-	7.2	-	+FL140	-	RNAV1/RNP1 (1)
TF	PEPAG	-	303° (306.1)	-	16.5	-	(2)	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation
(2) MCL140/150 depending on Zurich QNH

VOG 1S

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	ILFUG	-	-	-	-	-	+TRL	-	RNAV1/RNP1 (1)
TF	TOVSA	-	178° (181.2)	-	16.9	-	+FL95	-	RNAV1/RNP1 (1)
TF	VOG	-	252° (255.4)	-	28.3	-	+FL100	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

VOG 7U

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	TZO	-	-	-	-	-	+6000	-	RNAV1/RNP1 (1)
TF	ABSEM	-	223° (225.5)	-	6.4	-	-	-	RNAV1/RNP1 (1)
TF	VOG	-	207° (210.4)	-	36.0	-	+FL100	-	RNAV1/RNP1 (1)

(1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation

WAYPOINT LIST

Waypoint Identifier	Coordinates
ME612	45°45'06.86" N 009°31'41.17" E
ME613	45°41'33.57" N 008°31'36.41" E

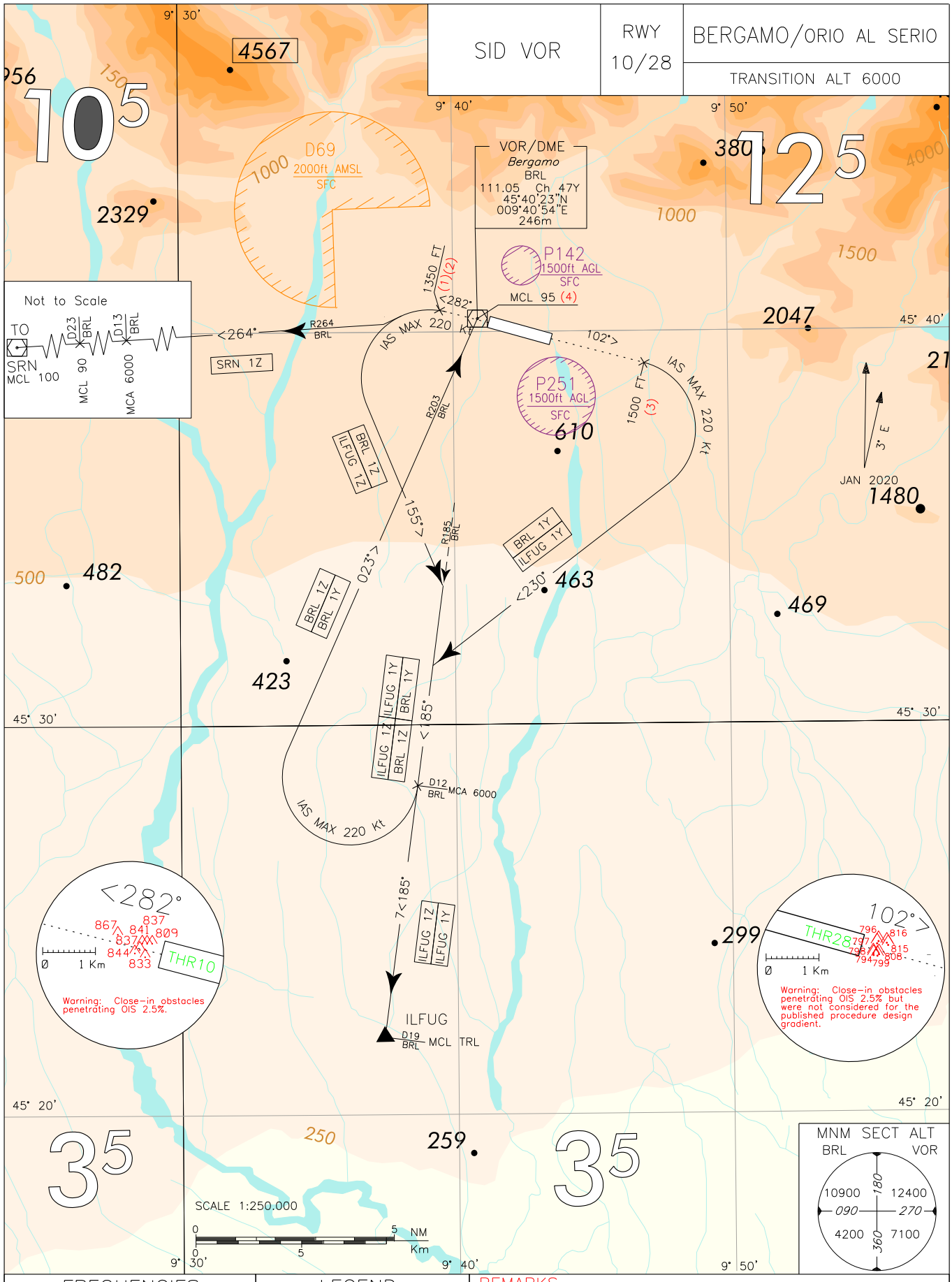
CHANGE: ATIS FREQUENCY UPDATED, ILFUG 1Z/1Y UPDATED, REMARK 1 UPDATED

SID VOR

RWY 10/28

BERGAMO/ORIO AL SERIO

TRANSITION ALT 6000



FREQUENCIES

TWR	Orio TWR	125.875 (CH 134.105)
APP	Milano Radar	(126.300)
(SID via SRN only)		126.750
ATIS	Bergamo ATIS Information	118.540

LEGEND

ICP

SID

SID ATC discretion

Not to Scale

REMARKS

1) Turns leaving 1350 FT shall be performed with bank angle 25° or rate of turn 2° /sec, whichever requires lesser bank.
2) Turn altitude 1350 Ft, not before then 0.8 NM BRL DME
3) Turn altitude 1500 Ft, not before then 4.4 NM BRL DME
4) MCL120 only for Transition Segment to Enroute direct to DILEB

SIDs VOR FOR CAT A, B, C & D RWY 10/28 DESCRIPTION

Noise abatement procedures

The following initial climb procedures and SIDs will be used as noise mitigation measure.

Provision of Italian Civil Aviation Authority reported in ENR 1.5 apply.

SIDs RWY 10

REMARKS

All turns shall be executed with IAS MAX 220 kt.

WARNING

There are close-in obstacles penetrating OIS 2.5% but they were not considered for the published procedure design gradient.

BRL 1Y

Minimum climb gradient 4.9% (300 ft/NM) until leaving 6000FT.

After take-off proceed on RWY heading (track 102°) until leaving 1500 ft then turn right (not before 4.4 NM BRL DME) on track 230° until joining RDL 185 BRL VOR (TR 185°). Crossing 12 NM BRL DME, turn right to join track 023° (RDL 203 BRL VOR) bound to BRL VOR.

MCA/MCL: RDL185/12 NM BRL VOR/DME, 6000 FT; BRL VOR, FL95 (FL120 only for Transition Segment to Enroute direct to DILEB).

ILFUG 1Y

Minimum climb gradient 4.9% (300 ft/NM) until leaving 6000FT.

After take-off proceed on RWY heading (track 102°) until leaving 1500 ft, then turn right (not before 4.4 NM BRL DME) on track 230° until joining RDL 185 BRL VOR (TR 185°), bound to ILFUG (RDL 185/19 NM BRL VOR/DME)

MCA/MCL: RDL185/12 NM BRL VOR/DME, 6000 FT; ILFUG, TRL.

SIDs RWY 28

REMARKS

1. **All turns shall be executed with IAS MAX 220 kt.**
2. **Turns leaving 1350 FT shall be performed with bank angle 25° or rate of turn 2°/sec, whichever requires lesser bank.**

WARNING

There are close-in obstacles penetrating OIS 2.5%.

BRL 1Z

Minimum climb gradient 8.3% (500 ft/NM) until leaving 4500FT.

After take-off proceed on RWY heading (track 282°) until leaving 1350 ft, then turn left (not before 0.8 NM BRL DME) on track 155° until joining RDL 185 BRL VOR (TR 185°). Crossing 12 NM BRL DME, turn right to join track 023° (RDL 203 BRL VOR) bound to BRL VOR.

MCA/MCL: RDL185/12 NM BRL VOR/DME, 6000 FT; BRL VOR, FL95 (FL120 only for Transition Segment to Enroute direct to DILEB).

ILFUG 1Z

Minimum climb gradient 8.3% (500 ft/NM) until leaving 4500FT.

After take-off proceed on RWY heading (track 282°) until leaving 1350 ft, then turn left (not before 0.8 NM BRL DME) on track 155° until joining RDL 185 BRL VOR (TR 185°), bound to ILFUG (RDL 185/19 NM BRL VOR/DME)

MCA/MCL: RDL185/12 NM BRL VOR/DME, 6000 FT; ILFUG, TRL.

SRN 1Z

Minimum climb gradient 8.3% (500 ft/NM) until leaving 4500FT. For ATC reasons, leaving 4500 FT, minimum climb gradient 4.6% (280 ft/NM).

After take-off proceed on RWY heading (track 282°) until leaving 1350 ft, then turn left (not before 0.8 NM BRL DME) until joining RDL 264 BRL VOR (TR 264°) bound to SRN VOR

MCA/MCL: RDL264/13 NM BRL VOR/DME, 6000 FT; RDL264/23 NM BRL VOR/DME, FL90; SRN VOR, FL100.

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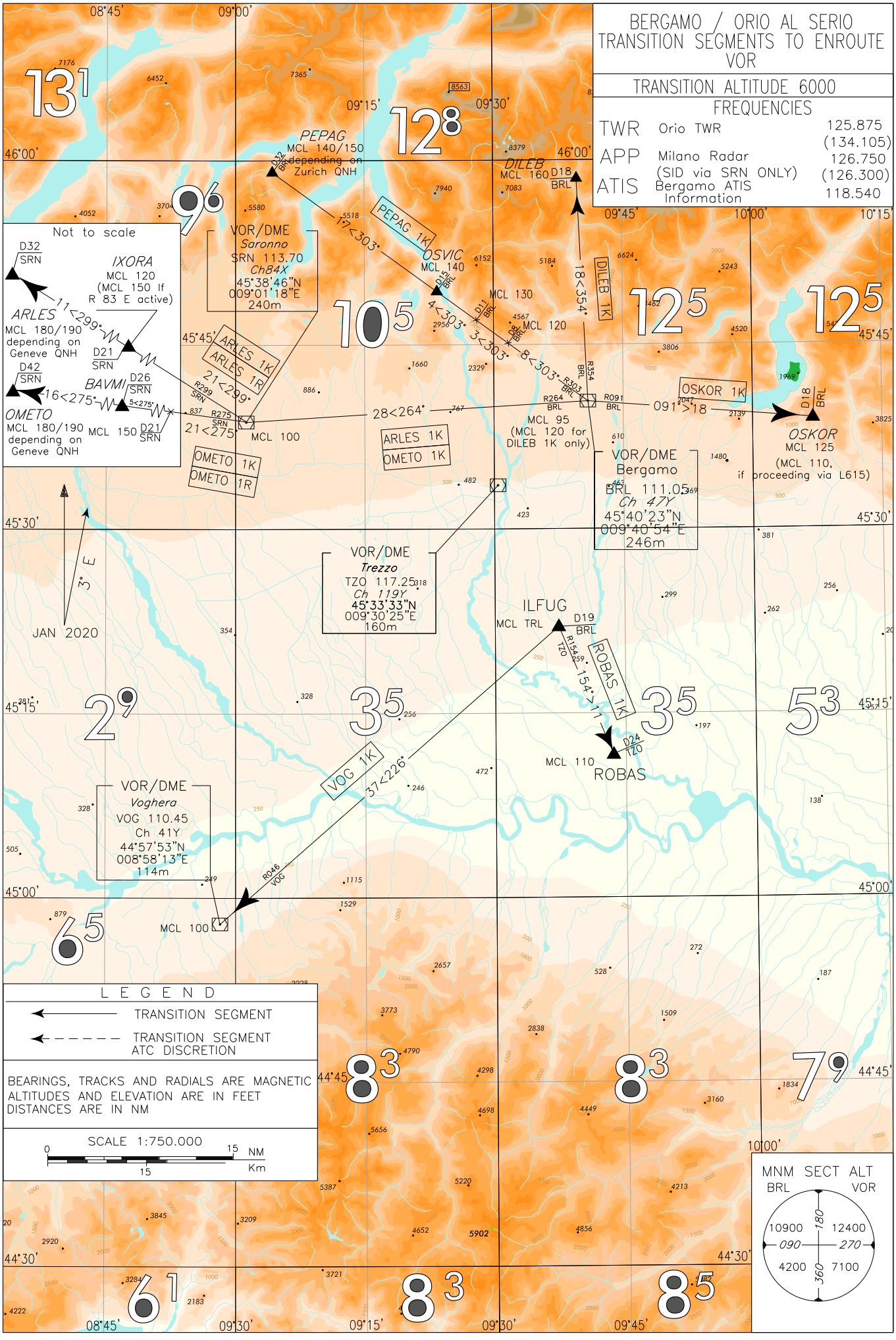

CHANGE: ATIS FREQUENCY UPDATED

TRANSITION SEGMENTS TO ENROUTE VOR DESCRIPTION

ARLES 1K
BRL VOR proceed on TR 264° (RDL 264 BRL VOR) to SRN VOR, then turn right on TR 299° (RDL 299 SRN VOR) via IXORA (RDL 299/21 NM SRN VOR/DME) direct to ARLES (RDL 299/32 NM SRN VOR/DME).

MCL: BRL VOR, MCL 95; SRN VOR, MCL100; IXORA, FL 120 (FL 150 if R 83 E active); ARLES, FL 180/190 depending on Geneve QNH

ARLES 1R
SRN VOR proceed on TR 299° (RDL 299 SRN VOR) via IXORA (RDL 299/21 NM SRN VOR/DME) direct to ARLES (RDL 299/32 NM SRN VOR/DME).

MCL: SRN VOR, MCL100; IXORA, FL 120 (FL 150 if R 83 E active); ARLES, FL 180/190 depending on Geneve QNH

DILEB 1K
BRL VOR proceed on TR 354° (RDL 354 BRL VOR) direct to DILEB (RDL 354/18 NM BRL VOR/DME).

MCL: BRL VOR, MCL 120; DILEB, FL 160

OMETO 1K
BRL VOR proceed on TR 264° (RDL 264 BRL VOR) to SRN VOR, then TR 275° (RDL 275 SRN VOR) via BAVMI (RDL 275/26 NM SRN VOR/DME) direct to OMETO (RDL 275/42 NM SRN VOR/DME).

MCL: BRL VOR, MCL 95; SRN VOR, MCL100; RDL 275/21 NM SRN VOR/DME, FL 150; OMETO, FL 180/190 depending on Geneve QNH

OMETO 1R
SRN VOR proceed on TR 275° (RDL 275 SRN VOR) via BAVMI (RDL 275/26 NM SRN VOR/DME) direct to OMETO (RDL 275/42 NM SRN VOR/DME).

MCL: SRN VOR, MCL100; RDL 275/21 NM SRN VOR/DME, FL 150; OMETO, FL 180/190 depending on Geneve QNH

OSKOR 1K
BRL VOR proceed on TR 091° (RDL 091 BRL VOR) direct to OSKOR (RDL 091/18 NM BRL VOR/DME).

MCL: BRL VOR, MCL 95; OSKOR, FL 125 or FL 110 (if proceeding via L615)

PEPAG 1K
BRL VOR proceed on TR 303° (RDL 303 BRL VOR) via OSVIC (RDL 303/15.2 NM BRL VOR/DME) direct to PEPAG (RDL 303/32 NM BRL VOR/DME).

MCL: BRL VOR, MCL 95; RDL 303/8 NM BRL VOR/DME, MCL120; RDL 303/11 NM BRL VOR/DME, MCL130; OSVIC, FL 140; PEPAG, FL 140/150 depending on Zurich QNH

ROBAS 1K
ILFUG (RDL 185/19 NM BRL VOR/DME) proceed on TR 154° (RDL 154° TZO VOR) direct to ROBAS (RDL 154/24 NM TZO VOR/DME).

MCL: ILFUG, TRL; ROBAS, FL 110

VOG 1K
ILFUG (RDL 185/19 NM BRL VOR/DME) proceed on TR 226° (RDL 046° VOG VOR) direct to VOG VOR.

MCL: ILFUG, TRL; VOG VOR, FL 100

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