CHANGE: BAMEK 5M, BENUS 4M, LUMAV 4M, NIGSO 5M AND RIPDU 4M UPDATED

BOLOGNA

STAR RNAV1 or RNP1 RWY 12

TRANSITION ALT 6000FT

FREQUENCIES

APP	Bologna APP/Radar	133.775 (118.150)
TWR	Bologna TWR	120.800 (120.100)
ATIS	Bologna Arrival Information	134.875

REMARK

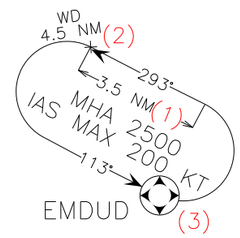
250 KT IAS at FL 100 or BELOW
SEE ALSO ENR 2.1.2.7

AIRSPACE CLASSIFICATION
SEE ENR 1.4

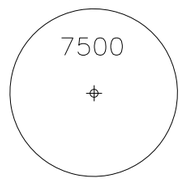
LEGEND

STAR
STAR ATC discrection

EMDUD Holding Procedure



MNM SECT ALT
ARP



REMARKS
(1) for RNAV system with holding functionality
(2) for RNAV system without holding functionality
(3) Fly–over for holding pattern only

JAN 2020

BENUS
BENUS 4M
MEA 5000
167°<8
BAMEK
8<193°
MEA 5000
BAMEK 5M
LUMAV 4M
LUMAV
11<258°
MEA 4000
FERRARA AD
FL100
SFC
PE749
KREVA
PE721
IAS MAX 230 KT
4<294°
MEA 4000
PE725
IAS MAX 230 KT
6<193°
MEA 4000
5<293°
MEA 4000
PE730
IAS MAX 230 KT
9<197°
MEA 4000
PE735
IAS MAX 230 KT
5<294°
MEA 4000
Zone 4
FL125
3000ft AMSL
D
22
31
REGGIO EMILIA AD
FL150
SFC
ROXOK
IAS MAX 230 KT
113°>5
MEA 3000
6<203°
MEA 3500
PE515
IAS MAX 210 KT
113°>5
MEA 2500
(3)
EMDUD
(IF)
IAS MAX 200 KT
RIPDU
RIPDU 4M
086°>6
MEA 6000
ABTIM
097°>8
MEA 5000
023°>6
MEA 5000
PE527
023°>6
MEA 2500
PE521
IAS MAX 230 KT
4<293°
MEA 5000
PE525
IAS MAX 230 KT
6<293°
MEA 5000
PE532
IAS MAX 230 KT
6<294°
MEA 5000
5<293°
MEA 5000
ELVEB
022°>9
MEA 5000
NIGSO
082°>8
MEL 90
NIGSO 5M
LARUD
PE543
PELEG 5M
13<293°
MEA 5000
PELEG 4F
24<322°
MEA 6000
019°>6
MEA 6000
PE544
019°>11
MEL 90
LOMED 3M
019°>10
MEL 90
PE556
FROM LOMED
PE557
MEL 90
7<311°
PELEG
1673
MOLINELLA
FL140
SFC
Zone 1
2000ft AMSL
SFC
D
Zone 7
FL125
4500ft AMSL
D
Zone 3
FL125
2000ft AMSL
D
Zone 8
FL125
1500ft AMSL
D
Zone 6
FL165
FL125
D
Zone 5
FL125
4500ft AMSL
D
Zone 2
1500ft AMSL
SFC
"D"
Zone 9
FL125
2500FT AMSL
D
79
51
93
94
74
59
72
190
98
148
1457
256
1240
2421
1352
3061
2874
2854
1391
1181
417
102
36
1690
1673
3383
4232
3576
2490
3094
4036
6955
7103
44° 50'
44° 40'
44° 30'
44° 20'
10° 30'
10° 40'
10° 50'
11° 00'
11° 10'
11° 20'
11° 30'
11° 40'

BEARINGS TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATION ARE IN FEET
DISTANCE IN NAUTICAL MILES
SCALE 1:350.000
2 0 5 10 NM
2 5 10 15 Km

Bologna / Borgo Panigale
STAR RNAV1 or RNP1 RWY 12

TABULAR DESCRIPTION

BAMEK 5M

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	BAMEK	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	KREVA	-	193° (196.5°)	-	8.2	-	+5000	-	RNAV1/RNP1 (1)
TF	PE730	-	193° (196.5°)	-	5.9	-	+4000	-230	RNAV1/RNP1 (1)
TF	PE725	-	293° (296.6°)	-	4.5	R	+4000	-230	RNAV1/RNP1 (1)
TF	PE721	-	294° (297.5°)	-	4.0	-	+4000	-230	RNAV1/RNP1 (1)
TF	PE515	-	203° (206.5°)	-	6.1	L	+3500	-210	RNAV1/RNP1 (1)
TF	EMDUD	-	113° (116.6°)	-	5.0	L	+2500	-200	RNAV1/RNP1 (1)

BENUS 4M

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	BENUS	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	KREVA	-	167° (170.5°)	-	8.1	-	+5000	-	RNAV1/RNP1 (1)
TF	PE730	-	193° (196.5°)	-	5.9	-	+4000	-230	RNAV1/RNP1 (1)
TF	PE725	-	293° (296.6°)	-	4.5	R	+4000	-230	RNAV1/RNP1 (1)
TF	PE721	-	294° (297.5°)	-	4.0	-	+4000	-230	RNAV1/RNP1 (1)
TF	PE515	-	203° (206.5°)	-	6.1	L	+3500	-210	RNAV1/RNP1 (1)
TF	EMDUD	-	113° (116.6°)	-	5.0	L	+2500	-200	RNAV1/RNP1 (1)

LOMED 3M

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	LOMED	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	PE556	-	019° (022.0°)	-	9.7	-	+FL 90	-	RNAV1/RNP1 (1)
TF	PE544	-	019° (022.1°)	-	10.9	-	+FL 90	-	RNAV1/RNP1 (1)
TF	ELVEB	-	019° (022.1°)	-	6.2	-	+6000	-	RNAV1/RNP1 (1)
TF	PE532	-	294° (297.1°)	-	6.2	L	+5000	-230	RNAV1/RNP1 (1)
TF	PE525	-	293° (296.6°)	-	6.3	-	+5000	-230	RNAV1/RNP1 (1)
TF	PE521	-	293° (296.4°)	-	4.0	-	+5000	-230	RNAV1/RNP1 (1)
TF	PE515	-	023° (026.5°)	-	6.0	-	+2500	-210	RNAV1/RNP1 (1)
TF	EMDUD	-	113° (116.6°)	-	5.0	R	+2500	-200	RNAV1/RNP1 (1)

LUMAV 4M

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	LUMAV	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	PE749		258° (261.6°)		10.6		+4000		RNAV1/RNP1 (1)
TF	PE735		197° (200.0°)		9.2		+4000	-230	RNAV1/RNP1 (1)
TF	PE730	-	294° (296.7°)	-	4.8	R	+4000	-230	RNAV1/RNP1 (1)
TF	PE725	-	293° (296.6°)	-	4.5	-	+4000	-230	RNAV1/RNP1 (1)
TF	PE721	-	294° (297.5°)	-	4.0	-	+4000	-230	RNAV1/RNP1 (1)
TF	PE515	-	203° (206.5°)	-	6.1	L	+3500	-210	RNAV1/RNP1 (1)
TF	EMDUD	-	113° (116.6°)	-	5.0	L	+2500	-200	RNAV1/RNP1 (1)

NIGSO 5M

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	NIGSO	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	LARUD	-	082° (85.1°)	-	7.8	-	+FL 90	-	RNAV1/RNP1 (1)
TF	PE525	-	022° (024.9°)	-	8.7	-	+5000	-230	RNAV1/RNP1 (1)
TF	PE521	-	293° (296.4°)	-	4.0	L	+5000	-230	RNAV1/RNP1 (1)
TF	PE515	-	023° (026.5°)	-	6.0	-	+2500	-210	RNAV1/RNP1 (1)
TF	EMDUD	-	113° (116.6°)	-	5.0	R	+2500	-200	RNAV1/RNP1 (1)

PELEG 5M

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	PELEG	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	PE557	-	311° (314.2°)	-	7.2	-	+FL90	-	RNAV1/RNP1 (1)
TF	PE543	-	292° (295.0°)	-	12.9	-	+5000	-	RNAV1/RNP1 (1)
TF	ELVEB	-	293° (296.4°)	-	5.2	-	+5000	-	RNAV1/RNP1 (1)
TF	PE532	-	294° (297.1°)	-	6.2	-	+5000	-230	RNAV1/RNP1 (1)
TF	PE525	-	293° (296.6°)	-	6.3	-	+5000	-230	RNAV1/RNP1 (1)
TF	PE521	-	293° (296.4°)	-	4.0	-	+5000	-230	RNAV1/RNP1 (1)
TF	PE515	-	023° (026.5°)	-	6.0	-	+2500	-210	RNAV1/RNP1 (1)
TF	EMDUD	-	113° (116.6°)	-	5.0	R	+2500	-200	RNAV1/RNP1 (1)

PELEG 4F (ATC discretion)

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	PELEG	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	PE557	-	311° (314.2°)	-	7.2	-	+FL90	-	RNAV1/RNP1 (1)
TF	PE735	-	322° (325.4°)	-	24.2	-	+6000	-230	RNAV1/RNP1 (1)
TF	PE730	-	294° (296.7°)	-	4.8	-	+4000	-230	RNAV1/RNP1 (1)
TF	PE725	-	293° (296.6°)	-	4.5	-	+4000	-230	RNAV1/RNP1 (1)
TF	PE721	-	294° (297.5°)	-	4.0	-	+4000	-230	RNAV1/RNP1 (1)
TF	PE515	-	203° (206.5°)	-	6.1	L	+3500	-210	RNAV1/RNP1 (1)
TF	EMDUD	-	113° (116.6°)	-	5.0	L	+2500	-200	RNAV1/RNP1 (1)

RIPDU 4M

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	RIPDU	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	ABTIM	-	086° (088.7°)	-	6.0	-	+6000	-	RNAV1/RNP1 (1)
TF	PE527	-	097° (100.5°)	-	7.6	-	+5000	-	RNAV1/RNP1 (1)
TF	ROXOK	-	023° (026.5°)	-	6.0	-	+5000	-230	RNAV1/RNP1 (1)
TF	PE515	-	113° (116.5°)	-	5.0	-	+3000	-210	RNAV1/RNP1 (1)
TF	EMDUD	-	113° (116.6°)	-	5.0	-	+2500	-200	RNAV1/RNP1 (1)

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

HOLDING RNAV1

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (2)	Timing(min.)/ Waypoint Distance (NM) (3)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	EMDUD	113 (116.6)	3.5	4.5	L	+2500	-	-200	+3	RNAV

(2) RNAV system with holding functionality
(3) RNAV system without holding functionality

WAYPOINT LIST

Waypoint Identifier	Coordinates
PE515	44°39'16.2"N 010°57'21.1"E
PE521	44°33'54.0"N 010°53'36.2"E
PE525	44°32'07.1"N 010°58'36.4"E
PE527	44°36'07.6"N 010°47'20.3"E
PE532	44°29'17.6"N 011°06'29.8"E
PE543	44°24'09.8"N 011°20'39.7"E
PE544	44°20'43.7"N 011°10'55.9"E
PE556	44°10'37.5"N 011°05'14.4"E
PE557	44°18'40.9"N 011°36'57.0"E
PE721	44°44'41.8"N 011°01'09.3"E
PE725	44°42'51.0"N 011°06'07.7"E
PE730	44°40'50.0"N 011°11'45.4"E
PE735	44°38'39.5"N 011°17'48.5"E
PE749	44°47'20.1"N 011°22'13.9"E

Intenzionalmente bianca

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CHANGE: PELEG 6W UPDATED

BOLOGNA

STAR RNAV 1 or RNP RWY 30

TRANSITION ALT 6000FT

FREQUENCIES

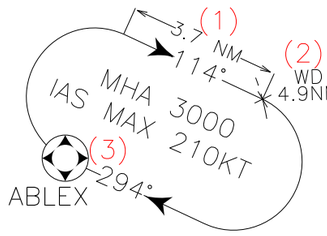
APP	Bologna APP/Radar	133.775 (118.150)
TWR	Bologna TWR	120.800 (120.100)
ATIS	Bologna Arrival Information	134.875

REMARK

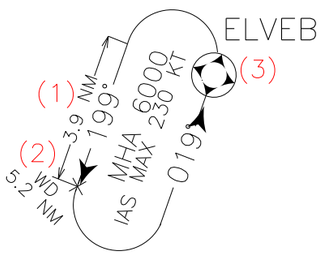
250 KT IAS at FL 100 or BELOW
SEE ALSO ENR 2.1.2.7

AIRSPACE CLASSIFICATION
SEE ENR 1.4

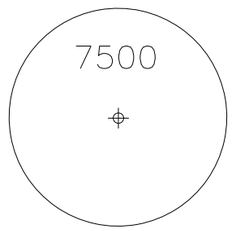
ABLEX Holding Procedure



ELVEB Holding Procedure



MNM SECT ALT
ARP



REMARKS
(1) for RNAV system with holding functionality
(2) for RNAV system without holding functionality
(3) Fly–over for holding pattern only

BEARINGS TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATION ARE IN FEET
DISTANCE IN NAUTICAL MILES
SCALE 1:350.000

Bologna / Borgo Panigale
STAR RNAV1 or RNP 1 RWY 30

TABULAR DESCRIPTION

BAMEK 3W

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	BAMEK	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	KREVA	-	193° (196.5°)	-	8.2	-	+5000	-	RNAV1/RNP1 (1)
TF	PE730	-	193° (196.5°)	-	5.9	-	+4000	-	RNAV1/RNP1 (1)
TF	PE735	-	113° (116.8°)	-	4.8	-	+3000	-	RNAV1/RNP1 (1)
TF	PE928	-	114° (117.1°)	-	8.0	-	+3000	-230	RNAV1/RNP1 (1)
TF	PE920	-	113° (116.7°)	-	8.8	-	+3000	-230	RNAV1/RNP1 (1)
TF	IBNEL	-	204° (207.0°)	-	6.0	R	+3000	-210	RNAV1/RNP1 (1)
TF	ABLEX	-	294° (296.9°)	-	4.1	R	+3000	-210	RNAV1/RNP1 (1)

BENUS 3W

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	BENUS	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	KREVA	-	167° (170.5°)	-	8.1	-	+5000	-	RNAV1/RNP1 (1)
TF	PE730	-	193° (196.5°)	-	5.9	-	+4000	-	RNAV1/RNP1 (1)
TF	PE735	-	113° (116.8°)	-	4.8	-	+3000	-	RNAV1/RNP1 (1)
TF	PE928	-	114° (117.1°)	-	8.0	-	+3000	-230	RNAV1/RNP1 (1)
TF	PE920	-	113° (116.7°)	-	8.8	-	+3000	-230	RNAV1/RNP1 (1)
TF	IBNEL	-	204° (207.0°)	-	6.0	R	+3000	-210	RNAV1/RNP1 (1)
TF	ABLEX	-	294° (296.9°)	-	4.1	R	+3000	-210	RNAV1/RNP1 (1)

LOMED 3W

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	LOMED	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	PE556	-	019° (022.0°)	-	9.7	-	+FL90	-	RNAV1/RNP1 (1)
TF	PE544	-	019° (022.1°)	-	10.9	-	+FL90	-	RNAV1/RNP1 (1)
TF	ELVEB	-	019° (022.1°)	-	6.2	-	+6000	-230	RNAV1/RNP1 (1)
TF	PE543	-	113° (116.5°)	-	5.2	R	+5000	-230	RNAV1/RNP1 (1)
TF	PE820	-	113° (116.6°)	-	8.4	-	+5000	-230	RNAV1/RNP1 (1)
TF	IBNEL	-	024° (027.0°)	-	6.0	L	+3000	-210	RNAV1/RNP1 (1)
TF	ABLEX	-	294° (296.9°)	-	4.1	L	+3000	-210	RNAV1/RNP1 (1)

LUMAV 3W

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	LUMAV	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	PE941	-	242° (244.8°)	-	13.2	-	+4000	-	RNAV1/RNP1 (1)
TF	PE735	-	197° (200.5°)	-	4.9	-	+4000	-	RNAV1/RNP1 (1)
TF	PE928	-	114° (117.1°)	-	8.0	-	+3000	-230	RNAV1/RNP1 (1)
TF	PE920	-	113° (116.7°)	-	8.8	-	+3000	-230	RNAV1/RNP1 (1)
TF	IBNEL	-	204° (207.0°)	-	6.0	R	+3000	-210	RNAV1/RNP1 (1)
TF	ABLEX	-	294° (296.9°)	-	4.1	R	+3000	-210	RNAV1/RNP1 (1)

NIGSO 3W

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	NIGSO	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	PE532	-	068° (071.7°)	-	18.0	-	+6000	-	RNAV1/RNP1 (1)
TF	ELVEB	-	114° (117.2°)	-	6.2	-	+6000	-230	RNAV1/RNP1 (1)
TF	PE543	-	113° (116.5°)	-	5.2	-	+5000	-230	RNAV1/RNP1 (1)
TF	PE820	-	113° (116.6°)	-	8.4	-	+5000	-230	RNAV1/RNP1 (1)
TF	IBNEL	-	024° (027.0°)	-	6.0	L	+3000	-210	RNAV1/RNP1 (1)
TF	ABLEX	-	294° (296.9°)	-	4.1	L	+3000	-210	RNAV1/RNP1 (1)

PELEG 6W

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	PELEG	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	PE557	-	311° (314.2°)	-	7.2	-	+FL90	-	RNAV1/RNP1 (1)
TF	PE852	-	241° (244.2°)	-	8.0	-	+FL90	-	RNAV1/RNP1 (1)
TF	PE845	-	293° (295.7°)	-	7.2	-	+FL90	-	RNAV1/RNP1 (1)
TF	PE544	-	292° (295.6°)	-	5.6	-	+FL90	-	RNAV1/RNP1 (1)
TF	ELVEB	-	019° (022.1°)	-	6.2	R	+6000	-230	RNAV1/RNP1 (1)
TF	PE543	-	113° (116.5°)	-	5.2	R	+5000	-230	RNAV1/RNP1 (1)
TF	PE820	-	113° (116.6°)	-	8.4	-	+5000	-230	RNAV1/RNP1 (1)
TF	IBNEL	-	024° (027.0°)	-	6.0	L	+3000	-210	RNAV1/RNP1 (1)
TF	ABLEX	-	294° (296.9°)	-	4.1	L	+3000	-210	RNAV1/RNP1 (1)

RIPDU 3W

Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	RIPDU	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	ABTIM	-	086 ° (088.7°)	-	6.0	-	+FL90	-	RNAV1/RNP1 (1)
TF	PE527	-	097 ° (100.5°)	-	7.6	-	+6000	-	RNAV1/RNP1 (1)
TF	PE521	-	113 ° (116.5°)	-	5.0	-	+6000	-	RNAV1/RNP1 (1)
TF	PE532	-	113 ° 116.6°	-	10.3	-	+6000	-	RNAV1/RNP1 (1)
TF	ELVEB	-	114° (117.2°)	-	6.2	-	+6000	-230	RNAV1/RNP1 (1)
TF	PE543	-	113° (116.5°)	-	5.2	-	+5000	-230	RNAV1/RNP1 (1)
TF	PE820	-	113° (116.6°)	-	8.4	-	+5000	-230	RNAV1/RNP1 (1)
TF	IBNEL	-	024° (027.0°)	-	6.0	L	+3000	-210	RNAV1/RNP1 (1)
TF	ABLEX	-	294° (296.9°)	-	4.1	L	+3000	-210	RNAV1/RNP1 (1)

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

HOLDING RNAV1

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (2)	Timing(min.)/ Waypoint Distance (NM) (3)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	ABLEX	294 (296.8)	3.7	4.9	R	+3000	-	210	+3	RNAV
HM	ELVEB	019° (022.1°)	3.9	5.2	L	+6000	-	230	+3	RNAV

(2) RNAV system with holding functionality
(3) RNAV system without holding functionality

WAYPOINT LIST

Waypoint Identifier	Coordinates
PE521	44°33'54.0"N 010°53'36.2"E
PE527	44°36'07.6"N 010°47'20.3"E
PE532	44°29'17.6"N 011°06'29.8"E
PE543	44°24'09.8"N 011°20'39.7"E
PE544	44°20'43.7"N 011°10'55.9"E
PE556	44°10'37.5"N 011°05'14.4"E
PE557	44°18'40.9"N 011°36'57.0'E
PE730	44°40'50.0"N 011°11'45.4"E
PE735	44°38'39.5"N 011°17'48.5"E
PE920	44°31'05.8"N 011°38'44.8"E
PE928	44°35'01.7"N 011°27'47.3"E
PE941	44°43'16.0"N 011°20'13.8"E
PE820	44°20'24.0"N 011°31'09.4"E
PE845	44°18'19.0"N 011°17'55.3"E
PE852	44°15'12.3"N 011°26'54.1"E

CHANGE: PELEG 6R UPDATED

FREQUENCIES		
APP	Bologna APP/ Radar	133.775 (118.150)
TWR	Bologna TWR	120.800 (120.100)
ATIS	Bologna Arrival Information	134.875

LEGEND

STAR →

STAR ATC discretion –→

3° E JAN 2020

REMARKS

(1) STAR ATC Discretion reserved to Missed Approach

RMK:250 KT IAS at FL 100 or BELOW SEE ALSO ENR 2.1.2.7

AIRSPACE CLASSIFICATION SEE ENR 1.4

BENUS — BENUS 6N/2S — 167°>5 MEA 5000 — R347 BOA

BAMEK — BAMEK 6N/2S — 4.5<193° MEA 5000

KREVA — D17.5 BOA — 67°>3.6 — 193°

LUMAV — R037 BOA — 3.7<217° — LUMAV 4N / LUMAV 5S — D18 BOA — MEL 95

FERRARA AD — FL100 SFC

MIVBO — D14 BOA — 225° — D10.8 BOA — LUMAV 4N / MIVBO 2N (1) — ARC D12 BOA DME MEA 4000 ft — R358 BOA — BAMEK 6N / BENUS 6N / LUMAV 4N / MIVBO 2N (1)

MIVBO — R045 BOA — MIVBO 2N / MIVBO 2S — 045° (2) (1)

MIVBO — R 059 BOA — MIVBO 2N / LUMAV 4N / BENUS 6N / BAMEK 6N

MOLINELLA — FL140 SFC — MEA 4000 — ARC D15 BOA DME

REGGIO EMILIA AD — FL150 SFC

RIPDU — R275 BOA — 1457 — RIPDU 3N / RIPDU 2R — 095°>10.4 MEA 6000 — D25 BOA — 1240

RIPDU 3N — 069°>10.9 MEA 5000 — D16 BOA — 293° IBLN LOC — R293 BOA

EMDUD — D11 BOA — MEA 2500 FT — R 279 BOA — 095°>14.6 — R309 BOA — 293° IBLN LOC — R293 BOA

RIPDU 2R — MEA 5000

LOMED 3N / NIGSO 3N / PELEG 6N

NIGSO 2R — 068°>18 MEA 5000

NIGSO 3N / NIGSO 2R / NIGSO 2S — 068°>11.4 — 2854 MEL 90 — D18 BOA — R248 BOA — NIGSO

ARC D15 BOA DME MEA 5000 — R 235 BOA — MEA 6000 ARC D15 BOA DME

LOMED 2R — R 199 BOA — 019°>18

LOMED 3N / 2R / 2S FROM LOMED MEL 100 — 019°>15 — 3576 — D18 BOA

PELEG 6R — 9<311° MEA 6000 — D6 BOA

ABLEX — (1) — MEA3000 3.2<294° — R 114 BOA — D13 IBOA — IAS MAX 210 KT — R 108 BOA

BAMEK 2S / BENUS 2S / LOMED 2S / LUMAV 5S / NIGSO 2S / MIVBO 2S

R 127 BOA — 5<311° — (For RWY 30) MEA 4000 — MEL 90 — D20 BOA — R 142 BOA — R 161 BOA — ARC D15 BOA DME MEA 6000

PELEG 6N / 6R — R 131 BOA — MEL 90 — 1673 — PELEG

DVOR/DME Bologna BOA 117.10 Ch 118X 44°32'13"N 011°17'26"E 43m

LOC Bologna IBBP 109.75 44°32'31"N 011°16'13"E

LOC Bologna IBLN 108.90 44°31'45"N 011°18'21"E

DME Bologna IBLN Ch 26X 44°32'24"N 011°18'51"E 40m

Zone 4 FL125 3000ft AMSL D

Zone 1 2000ft AMSL SFC D

Zone 3 FL125 2000ft AMSL D

Zone 6 FL165 FL125 D

Zone 5 FL125 4500ft AMSL D

Zone 7 FL125 4500ft AMSL D

Zone 8 FL125 1500ft AMSL D

Zone 9 FL125 2500ft AMSL D

MNM SECT ALT

BOA VOR

4000 3000 7500 6000

179 089 269 359

BEARINGS TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATION ARE IN FEET
DISTANCE IN NAUTICAL MILES
SCALE 1:350.000

2 0 5 10 NM
2 5 10 15 Km

7103

STAR VOR BOLOGNA

TRANSITION ALT 6000FT

EMDUD Holding Procedure (LOC–DME)

D14.8 BOA — D14.3 IBLN — IAS MAX 200 KT — 293° MHA 2500 — 113° — D11 BOA — D10.5 IBLN — 293° IBLN LOC

EMDUD Holding Procedure (VOR–DME)

D14.8 BOA — 293° MHA 2500 IAS MAX 200 KT 113° — D11 BOA — R293 BOA

MIVBO Holding Procedure

D10.8 BOA — 225° MHA 4000 IAS MAX 200 KT 045° — MIVBO D14 BOA — R045 BOA

BOA VOR Holding Procedure

294° MHA 5000 IAS MAX 200KT 114°

ABLEX Holding Procedure (LOC–DME)

113° IBBP LOC — D 9.7 IBBP — 113° MHA 3000 IAS MAX 210KT 293° — D 13.7 IBBP

ABLEX Holding Procedure (VOR–DME)

R114 BOA — D 10 BOA — 114° MHA 3000 IAS MAX 210KT 294° — D 14 BOA

STAR VOR BOLOGNA/Borgo Panigale

BAMEK 6N
BAMEK – TR 193° to point KREVA, then turn right until joining ARC 12 NM BOA DME, then crossing RDL 309 BOA VOR turn left to point EMDUD.

MEA: BAMEK – KREVA, 5000 FT; KREVA – INT ARC 12 NM BOA DME/RDL 309 BOA VOR, 4000 FT; INT ARC 12 NM BOA DME/RDL 309 BOA VOR – EMDUD, 2500 FT

BAMEK 2S
BAMEK – TR 193° until 17.5NM BOA DME, then turn left until joining ARC 15 NM BOA DME until crossing RDL 108 BOA VOR, then turn right (IAS MAX 210 kt) to point ABLEX.

MEA: BAMEK – INT TR 193°/D17.5 BOA DME, 5000 FT; INT TR 193°/D17.5 BOA DME – INT RDL 114 BOA VOR/D13 BOA DME, 4000 FT; INT RDL 114 BOA VOR/D13 BOA DME – ABLEX, 3000 FT

BENUS 6N
BENUS – TR 167° (RDL 347 BOA VOR) until point KREVA, then turn right until joining ARC 12 NM BOA DME, then crossing RDL 309 BOA VOR turn left to point EMDUD.

MEA: BENUS – KREVA, 5000 FT; KREVA – INT ARC 12 NM BOA DME/RDL 309 BOA VOR, 4000 FT; INT ARC 12 NM BOA DME/ RDL 309 BOA VOR – EMDUD, 2500 FT

BENUS 2S
BENUS – TR 167° (RDL 347 BOA VOR) until 17.5NM BOA DME, then turn left until joining ARC 15 NM BOA DME until crossing RDL 108 BOA VOR, then turn right (IAS MAX 210 kt) to point ABLEX.

MEA: BENUS – INT RDL 347 BOA VOR/D17.5 BOA DME, 5000 FT; INT RDL 347 BOA VOR/D17.5 BOA DME – INT RDL 114 BOA VOR/D13 BOA DME, 4000 FT; INT RDL 114 BOA VOR/D13 BOA DME – ABLEX, 3000 FT

LOMED 3N
LOMED – RDL 199 BOA VOR until 18NM BOA DME, then turn left until joining ARC 15 NM BOA DME until crossing RDL 279 BOA VOR, then turn right to point EMDUD.

MEL/MEA: LOMED – INT RDL 199 BOA VOR/D18 BOA DME, FL 100; INT RDL 199 BOA VOR/D18 BOA DME – INT ARC 15 NM BOA DME/RDL 235 BOA VOR, 6000 FT; INT ARC 15 NM BOA DME/RDL 235 BOA VOR – INT ARC 15 NM BOA DME/RDL 279 BOA VOR, 5000 FT; INT ARC 15 NM BOA DME/RDL 279 BOA VOR – EMDUD, 2500 FT

LOMED 2R (ATC discretion)
LOMED – TR 019° (RDL 199 BOA VOR) - BOA VOR

MEL/MEA: LOMED – INT RDL 199 BOA VOR/D18 BOA DME, FL 100; INT RDL 199 BOA VOR/D18 BOA DME – BOA VOR/DME: 5000FT

LOMED 2S
LOMED – RDL 199 BOA VOR until 18NM BOA DME, then turn right until joining ARC 15 NM BOA DME until crossing RDL 127 BOA VOR, then turn left (IAS MAX 210 kt) to point ABLEX.

MEL/MEA: LOMED – INT RDL 199 BOA VOR/D18 BOA DME, FL 100; INT RDL 199 BOA VOR/D18 BOA DME – INT ARC 15 NM BOA DME/RDL 142 BOA VOR, 6000 FT; INT ARC 15 NM BOA DME/RDL 142 BOA VOR – INT RDL 114 BOA VOR/D13 BOA DME, 4000 FT; INT RDL 114 BOA VOR/D13 BOA DME – ABLEX, 3000 FT

LUMAV 4N
LUMAV – TR 217° (RDL 037 BOA VOR) until 14NM BOA DME, then turn right until joining ARC 12 NM BOA DME, then crossing RDL 309 BOA VOR turn left to point EMDUD.

MEL/MEA: LUMAV – INT RDL 037 BOA VOR/14 NM BOA DME, FL95; INT RDL 037 BOA VOR/14 NM BOA DME – INT ARC 12 NM BOA DME/RDL 309 BOA VOR, 4000 FT; INT ARC 12 NM BOA DME/RDL 309 BOA VOR – EMDUD, 2500 FT

LUMAV 5S
LUMAV – TR 217° (RDL 037 BOA VOR) until 18NM BOA DME, then turn left until joining ARC 15 NM BOA DME until crossing RDL 108 BOA VOR, then turn right (IAS MAX 210 kt) to point ABLEX.

MEL/MEA: LUMAV – INT ARC 15 NM BOA DME/RDL 059 BOA VOR, FL 95; INT ARC 15 NM BOA DME/RDL 059 BOA VOR – INT RDL 114 BOA VOR/D13 BOA DME, 4000 FT; INT RDL 114 BOA VOR/D13 BOA DME – ABLEX, 3000 FT

MIVBO 2N (ATC discretion)
MIVBO – turn left until joining ARC 12 NM BOA DME, then crossing RDL 309 BOA VOR turn left to point EMDUD.

MEA: MIVBO – INT ARC 12NM BOA DME/RDL 309 BOA VOR, 4000 FT; INT ARC 12NM BOA DME/RDL 309 BOA VOR – EMDUD, 2500 FT

MIVBO 2S (ATC discretion)
MIVBO – turn right until joining ARC 15 NM BOA DME until crossing RDL 108 BOA VOR, then turn right (IAS MAX 210 kt) to point ABLEX.

MEA: MIVBO – INT RDL 114 BOA VOR/D13 BOA DME, 4000 FT; INT RDL 114 BOA VOR/D13 BOA DME – EMDUD, 3000 FT

NIGSO 3N
NIGSO – TR 068° (RDL 248 BOA VOR) until 18NM BOA DME, then turn left until joining ARC 15 NM BOA DME until crossing RDL 279 BOA VOR, then turn right to point EMDUD.

MEL/MEA: NIGSO – INT RDL 248 BOA VOR/D18 BOA DME, FL 90; INT RDL 248 BOA VOR/D18 BOA - INT ARC 15 NM BOA DME/RDL 279 BOA VOR, 5000 FT; INT ARC 15 NM BOA DME/RDL 279 BOA VOR – EMDUD, 2500 FT

NIGSO 2R (ATC discretion)
NIGSO proceed on TR 068° (RDL 248 BOA VOR) to BOA VOR/DME.

MEL/MEA: NIGSO – INT RDL 248 BOA VOR/D18 BOA DME, FL 90; INT RDL 248 BOA VOR/D18 BOA DME – BOA VOR/DME, 5000 FT

NIGSO 2S
NIGSO – TR 068° (RDL 248 BOA VOR) until 18NM BOA DME, then turn right until joining ARC 15 NM BOA DME until crossing RDL 127 BOA VOR, then turn left (IAS MAX 210 kt) to point ABLEX.

MEL/MEA: NIGSO – INT RDL 248 BOA VOR/D18 BOA DME, FL 90; INT RDL 248 BOA VOR/D18 BOA DME – INT ARC 15 NM BOA DME/RDL 142 BOA VOR, 6000 FT; INT ARC 15 NM BOA DME/RDL 142 BOA VOR – INT RDL 114 BOA VOR/D13 BOA DME, 4000 FT; INT RDL 114 BOA VOR/D13 BOA DME – ABLEX, 3000 FT

PELEG 6N
PELEG – TR 311° (RDL 131 BOA VOR) until 20NM BOA DME, then turn left until joining ARC 15 NM BOA DME until crossing RDL 279 BOA VOR, then turn right to point EMDUD.

MEL/MEA: PELEG – INT ARC 15NM BOA DME/RDL 142 BOA VOR, FL90; INT ARC 15NM BOA DME/RDL 142 BOA VOR - INT ARC 15NM BOA DME/RDL 235 BOA VOR, 6000 FT; INT ARC 15NM BOA DME/RDL 235 BOA VOR - INT ARC 15NM BOA DME/ RDL 279 BOA VOR, 5000 FT; INT ARC 15 NM BOA DME/RDL 279 BOA VOR – EMDUD, 2500 FT

PELEG 6R
PELEG – TR 311° (RDL 131 BOA VOR) to BOA VOR/DME.

MEL/MEA: PELEG - RDL 131/15NM BOA VOR/DME, FL90; RDL 132/15NM BOA VOR/DME – RDL 131/6 NM BOA VOR/DME, 6000 FT; RDL 131/6 NM BOA VOR/DME – BOA VOR/DME, 5000 FT

RIPDU 3N
RIPDU – TR 095° (RDL 275 BOA VOR) until 25NM BOA DME, then turn left on track 069° until joining RDL 293 BOA VOR (293° IBLN LOC) to point EMDUD.

MEA: RIPDU – INT RDL 275 BOA VOR/D25 BOA DME, 6000; INT RDL 275 BOA VOR/D25 BOA DME – INT RDL 293 BOA VOR/D16 BOA DME, 5000; INT RDL 293 BOA VOR/D16 BOA DME – EMDUD, 2500 FT

RIPDU 2R (ATC discretion)
RIPDU proceed on TR 095° (RDL 275 BOA VOR) to BOA VOR/DME.

MEA: RIPDU – INT RDL 275 BOA VOR/D25 BOA DME, 6000; INT RDL 275 BOA VOR/D25 BOA DME – BOA VOR/DME, 5000 FT