

**ENR 3.4.2 ELENCO RADIOASSISTENZE E ROTTE/PROCEDURE ASSOCIATE
RADIO NAVIGATION AIDS LIST AND RELEVANT ROUTES/
PROCEDURES**

Codice ICAO ICAO code	Procedure di attesa Holding procedures			Rotte ATS/procedure interessate ATS Routes/ Procedure affected	NOTE REMARKS
	MHA/MHL	Turn R=Right/ Destra L=Left/ Sinistra	Inbound track (MAG)		
1	2			3	4
ABN NDB (Albenga)	6000 (1) 7000 (2)	R R	042° 042°	M985 Q985 T102 Y15 Z388 Z929 MF star MG star MG sid MG ial MJ star	(1) IAS MAX 190kt (2) IAS MAX 280kt
AEA VOR/DME (Alghero)	4000 (1) 4000 4000 (2)	L R R	049° 176° 176°	EA star EA sid EA ial	(1) IAS MAX 210kt (2) RNAV Holding - Leg Distance 4NM Waypoint Distance = 5.0NM IAS MAX 210kt
AHO TACAN (Alghero)				EA star EA sid EA ial	
ALB VOR/DME (Albenga)				MG star MG sid	
ALG VORTAC (Alghero)	4000 (1)	L	042°	L5 L42 L978 M603 M732 EA star EA sid EO star EO sid	(1) IAS MAX 210kt
ANC VOR/DME (Ancona)	5000	R	356°	L612 L865 M730 M736 M986 Y765 Z982 PR star PR sid PY star PY sid PY ial RZ star RZ sid	
BAR VOR/DME (Bari)	4000 (1) 4000 (2)	R L	253° 065°	P92 T415 T527 W36 BD star BD sid BD ial BF sid	(1) ATC discretion (2) IAS MAX 210KT
BCS VOR/DME (Brindisi)	4000 (1) 4000 (2) 4000 (1) 4000 (2) 2500 (3)	R R L L R	314° 314° 133° 133° 285°	BD star BD sid BG star BG sid BR star BR sid BR ial	(1) IAS MAX 210kt (2) RNAV Holding - Leg Distance 3.8NM Waypoint Distance = 5.0NM IAS MAX 210kt (3) Holding VOR/DME inbound to the station reserved to missed approach: - Nominal limiting distances between 8.7NM and 12NM BCS DME (or 9NM and 12NM IBRN DME) on RDL105 BCS VOR. IAS MAX 185kt

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	MHA/MHL	Turn R=Right/ Destra L=Left/ Sinistra	Inbound track (MAG)		
1	2			3	4
BOA VOR/DME (Bologna)	5000 (1)	L	114°	M738 M859 Q95 Y504 MP star MP sid PE star PE sid PE ial PK star PK sid PK ial PO star PO sid PR sid PX star PX sid	(1) IAS MAX 200kt
BRL VOR/DME (Bergamo)	FL90 (1) FL100 (2) FL110 (3) 6000 (1)	R R R L	107° 107° 107° 289°	MC sid ME star ME ial ME sid ML sid LSZA star LSZA sid	(1) IAS MAX 200kt (2) IAS MAX 230kt (3) IAS MAX 280kt
BSA VOR/DME (Brescia)	6000 (1)	L	089°	MP star PO star PO sid PO ial PX star	(1) IAS MAX 200kt
CAG VOR/DME (Cagliari)	5000 4000 (1) 5000 4000 (1)	L L R R	317° 317° 338° 338°	EE star EE sid EE ial	(1) Reserved to missed approach
CAL NDB (Cagliari)	3000 3000	L R	317° 137°	EE star EE sid EE ial	
CAR VOR/DME (Carbonara)	5000 5500 (1) 6000 (2)	L L L	216° 216° 145°	M126 M732 M733 M871 P161 Q152 Y159 EE star EE sid EE ial	(1) IAS >280kt (2) RNAV Holding - Outbound Leg 3.9NM Waypoint Distance 5.2NM IAS MAX 210kt
CDC VORTAC (Caraffa)	5500 5500 (1)(2)	L L	129° 254°	L137 L869 M620 M729 Q152 Q182 Q865 Z910 BC star BC sid CA star CA sid CA ial CR sid	(1) RNAV Holding - Leg Distance 4.0NM Waypoint Distance 4.8NM IAS MAX 185kt (2) Reserved to missed approach

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	MHA/MHL	Turn R=Right/ Destra L=Left/ Sinistra	Inbound track (MAG)		
1	2			3	4
CHI VOR/DME (Chioggia)	5000 (1)	R	329°	KY139 L612 L614 M167 M859 N503 Q702 Y106 Y664 Z43 Z388 Z906 PE star PE sid PH star PH sid PQ star PQ sid PZ star PZ sid PZ ial	(1) IAS MAX 210kt for ATC reasons
CLL TACAN (Caselle)				MF ial	
CMP VOR/DME (Campagnano)	5000 (1) 6000 (2) 4000 (3) 4000 (4) 6000 (5) 5000 (6)	R R R R R	197° 197° 207° 207° 197° 197°	RA star RA sid RA ial RF star RF ial	(1) Allowed in the event of turbulence only if aircraft established in the holding pattern (2) Holding on turbulence conditions (3) Reserved to missed approach associated with Roma-Fiumicino ILS or LOC W RWY16L, ILS or LOC RWY34R and RNP RWY34R. IAS MAX 185kt (4) RNAV Holding - Leg Distance 4.3NM IAS MAX 185kt (5) RNAV Holding - Leg Distance 4NM Waypoint Distance 5.7NM IAS MAX 210kt (6) RNAV Holding: Leg Distance 4NM for RNAV system with holding functionality. Timing 1 min for RNAV system without holding functionality.
COD L (Codogno)	5000 5000 (1)	L L	318° 318°	KY139 MC sid ME star ML star ML sid ML ial PO sid PX sid	(1) In the event of COD L unavailability following holding is established: Holding VOR/DME inbound to the station: - Nominal limiting distances between 18NM and 23NM on RDL140 LIN VOR/DME
COM VOR/DME (Comiso)	5000	R	257°	CB star CB sid CB ial	
CRN VOR/DME (Crotone)	4000 (1) 3000 (1) (2) 4000 (1) 3000 (1) (2)	L L R R	196° 196° 360° 360°	L869 M601 M736 T416 BC star BC sid BC ial CA star CA sid	(1) IAS MAX 200kt (2) Reserved to missed approach
CSL VOR/DME (Caselle)	FL130 (1)	L	218°	MC sid MF star MF sid MF ial MZ star MZ sid	(1) IAS MAX 230kt
CTF VOR/DME (Catania)	6000 5500 (1) 4000 3000 (2)	R R L R	090° 083° 265° 292°	Q72 CC star CC sid CC ial CR star	(1) Holding VOR/DME inbound to the station reserved to missed approach: - Nominal limiting distances between 23NM and 28NM on RDL263 CTF VOR/DME (2) Holding VOR/DME inbound to the station reserved to missed approach: - Nominal limiting distances between 19NM and 23NM on RDL112 CTF VOR/DME

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	MHA/MHL	Turn R=Right/ Destra L=Left/ Sinistra	Inbound track (MAG)		
1	2			3	4
DEC NDB (Decimomannu)				M858 Q125 EE sid	
DEC TACAN (Decimomannu)				EE sid	
ELB VORTAC (Elba)	7000	R	152°	L12 L50 L127 L146 M616 M729 Q125 T313 Z254 RA sid RP sid	
FAL TACAN (Falconara)				PYsid PY ial	
FGG VOR/DME (Foggia)	3000 (1) 4000 (2) 4500 (3)	R R R	112° 105° 105°	BF star BF sid BF ial	(1) IAS MAX 210kt (2) IAS MAX 230kt (3) IAS MAX 280kt
FOL VOR/DME (Forlì)	3500 (1)	L	099°	PK star PK sid PK ial PR ial	(1) IAS MAX 185kt
FRS VOR/DME (Frosinone)				RA sid RA ial RF sid	
GEN VOR/DME (Genova)	6500 (1) TRL (2) 6500 (3)	R R R	327° 327° 319°	M729 M730 M858 M859 M985 Q713 Y15 ME sid MF star MF sid MG star MG sid MJ star MJ sid MJ ial ML star ML sid MZ star	(1) IAS MAX 230kt (2) IAS MAX 280kt (3) RNAV Holding for RNAV system without Holding Functionality Timing: 1 min IAS MAX 230kt
GRO TACAN (Grosseto)				RS star RS sid RS ial	
GRO VOR (Grosseto)	3000 (1)	L	245°	RS star RS sid RS ial	(1) Bank 30° if IAS > 230kt
IBRN DME (Brindisi)				BR star BR sid BR ial	
LAT VOR/DME (Latina)	FL90 (1)(2)	R	267°	M726 Q58 Z803 RA star RA sid RA ial RF star	(1) Holding pattern for TMA traffic only MAX holding levels: - FL120 for omni-directional entries - FL180 for on track entries (2) RNAV Holding - Outbound Leg 5NM Waypoint distance= 7NM IAS MAX 230kt
LEV L (Levaldigi)	4000 (1) (3) 5000 (2) (3)	L L	203° 203°	MF star MZ star MZ sid MZ ial	(1) IAS MAX 190kt and direct entry only (2) IAS MAX 210kt (3) MAX holding altitude: 6000ft
LIN VOR/DME (Linate)				MC sid MJ star ML star ML sid ML ial	

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1	2			3	4
LMT VOR/DME (Lamezia)	6000 (1)	R	094°	BC star CA star CA sid CA ial	(1) IAS MAX 210kt
LPD VOR/DME (Lampedusa)				CD star CD sid CD ial	
MMP VOR/DME (Malpensa)	5000 (1)(2) 4000 (3)(4) FL75 or transition level if higher (3)(5)	R R R	316° 084° 084°	MC star MC sid MC ial ME sid MF sid ML sid MZ sid LSZA star LSZA sid	(1) IAS MAX 210k - Timing 1 min (2)RNAV Holding: Leg Distance 4.5NM for RNAV system with holding functionality. Timing 1 min for RNAV system without holding functionality. IAS MAX 210kt. (3) Holding VOR/DME inbound to the station reserved to missed approach: - Nominal limiting distances between 10NM and 14NM on RDL264 MMP VOR/DME (9.8NM and 13.4NM IMA DME) (4) IAS MAX 230kt (5) IAS MAX 280kt
NAP DME (Napoli)				RN ial	
NOV DME (Novara)				MC sid MC ial	
OST VOR/DME (Ostia)	3000 (1) 3000 (2) 2000 (3)	R R L	012° 109° 339°	L5 L44 M126 Q160 RA star RA sid RF star RF sid RF ial	(1) Holding VOR/DME inbound to the station: - Nominal limiting distances between 19NM and 24NM OST DME or between 19.5NM and 24.5NM IFRR DME on RDL192 OST VOR (2) Holding VOR/DME inbound to the station: - Nominal limiting distances between 19NM and 24NM OST DME or between 18.5NM and 23.5NM IFRR DME on RDL289 OST VOR (3) Holding VOR/DME inbound to the station: - Nominal limiting distances between 19NM and 24NM on RDL159 OST VOR/DME IAS MAX 185kt
OZE VOR/DME (Bolzano)	FL130 FL135 (1)	L L	196° 196°	M736 T897 DT star DT sid PB star PB sid PB ial	(1) Holding on turbulence conditions
PAL VOR/DME (Palermo)				L12 L869 M616 M726 M742 M871 CJ star CJ sid CJ ial CT star CT sid	
PAN VOR/DME (Pantelleria)	4000 (5) 4000 (2)(3) 4000 (5) 4000 (5) 4000 (1)(4)	R R R R	274° 020° 052° 073° 058°	M740 N163 CG star CG sid CG ial CT star	(1) RNAV Holding - Waypoint Distance: 4.4NM IAS MAX 190Kt (2) Maximum Holding Level FL100 (3) IAS MAX 200Kt (4) Maximum Holding Level FL70 (5) Maximum Holding Level FL90

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	MHA/MHL	Turn R=Right/ Destra L=Left/ Sinistra	Inbound track (MAG)		
1	2			3	4
PES VOR/DME (Pescara)	4000 (1) 4000 (2) 4000 (2)	L R R	123° 219° 214°	M169 M736 M872 Q920 Y579 BP star BP sid BP ial	(1) IAS MAX 185kt (2) IAS MAX 210kt
PIN TACAN (Pisa)				RP ial RP sid	
PIS L (Pisa)	5000 3000 (1) (2)	R R	216° 216°	RP star RP sid RP ial RS star	(1) IAS MAX 230kt (2) Reserved to missed approach
PIS VOR/DME (Pisa)	5000 2000 (1) 5000	L L R	229° 309° 113°	L153 RP star RP sid RP ial RO star	(1) Holding VOR/DME away from the station reserved to missed approach: - Nominal limiting distances between 12NM and 9NM on RDL309 PIS VOR/DME
PNZ VORTAC (Ponza)	4000	R	102°	M603 M726 M729 M735 P126 Q789 RA sid RN star	
PRS VOR/DME (Punta Raisi)	5000 5000	L R	028° 245°	CJ star CJ sid CJ ial CT star CT sid	
PRT VOR/DME (Peretola)	6000 5000 (1) 6000 (2) 4000 (3) (4)	R R R L	211° 211° 211° 349°	Q25 RP star RQ star RQ sid RQ ial	(1) Reserved to missed approach (2) Reserved to missed approach on turbulence conditions (3) Holding VOR/DME inbound to the station reserved to missed approach: - Nominal limiting distances between 17NM and 20NM on RDL169 PRT VOR/DME IAS MAX 185 KT (4) MAX holding altitude: 5000ft
PRU VOR/DME (Perugia)	5000 (1)(2) 6000 (2) 6000 (3)	R R R	180° 180° 178°	RZ star RZ sid RZ ial	(1) ATC discretion (2) IAS MAX 200kt (3) RNAV Holding Leg distance=3.7NM for RNAV system with holding functionality Waypoint distance=4.9NM for RNAV system without holding functionality IAS MAX 200kt
PTC VOR/DME (Pontecagnano)				RI star RI sid RI ial	
RCA VOR/DME (Reggio Calabria)	6500 (1)(4)(5) 6000 (1) (2) 6000 (3) 6000 (3) 6000	R R R L L	156° 156° 156° 008° 008°	L137 P3 Q58 Y93 BC star CA star CA sid CC star CC sid CR star CR sid CR ial	(1) IAS MAX 280kt (2) only for entries along RDL336 RCA VOR (3) IAS MAX 200kt and MAX holding level FL90 during "CONTINGENCY" procedures active on Reggio Calabria AD. (4) RNAV Holding - Outbound Leg 5NM Waypoint distance= 8NM IAS MAX 280kt (5) Omnidirectional Entry
RCH VOR/DME (Ronchi)	3000 (1) (2) (3)	R	087°	P28 P735 PQ star PQ sid PQ ial	(1) Holding VOR/DME inbound to the station: - Nominal limiting distances between 5NM and 10NM on RDL267 RCH VOR/DME (2) IAS MAX 185kt (3) MAX holding Altitude 5000ft

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	MHA/MHL	Turn R=Right/ Destra L=Left/ Sinistra	Inbound track (MAG)		
1	2			3	4
RIM VORTAC (Rimini)	3000 (1) 4000 4000	R R L	309° 309° 119°	PR star PR sid PR ial	(1) IAS MAX 170kt
RMN DME (Rimini)				PR ial	
RMC VOR/DME (Roma)	4500 (1) (2) 6000 4500 (1) (2) 6000 4500 (2)(3) 6000 (3)	R R L L R R	353° 353° 178° 178° 353° 353°	Z803 RA star RA sid RA ial RF star RF sid RF ial	(1) IAS MAX 230kt (2) ATC discretion (3) RNAV Holding: Leg Distance 4.2NM for RNAV system with holding functionality. Timing 1 min for RNAV system without holding functionality. Entry on track.
RON L (Ronchi)	3000 (1) (2)	R	088°	P125 Y526 PO star PO sid PO ial	(1) IAS MAX 185kt (2) MAX holding Altitude 5000ft
SES VOR/DME (Sestri)	6000 (1) 6500 (2) 6500 (2) (3) 6000 (4)	R R L R	132° 132° 287° 180°	MG star MG sid MJ star MJ sid MJ ial	(1) IAS MAX 230kt (2) IAS MAX 280kt (3) Holding VOR/DME inbound to the station: Nominal limiting distances between 19NM and 24NM on RDL107 SES VOR/DME (4) RNAV Holding for RNAV system without Holding Functionality Timing: 1 min IAS MAX 230kt
SME VOR/DME (Smeralda)	5000 (1) 5500 (2) 6000	R R R	027° 027° 219°	EA sid EO star EO sid EO ial	(1) IAS MAX 185kt (2) Holding on turbulence conditions
SOR VOR/DME (Sorrento)	6000 (1) 6000 (1)(2)	L L	315° 315°	M603 M620 M725 M736 M742 Q58 T92 Y159 RI star RI sid RN star RN sid RN ial	(1) IAS MAX 230kt (2) RNAV Holding: Leg Distance 4.3NM for RNAV system with holding functionality. Timing 1 min for RNAV system without holding functionality
SRN NDB (Saronno)	6000 (1) FL70 (2) (3) 4000 (1)	L L R	167° 167° 123°	L153 L612 L615 M727 M858 Z982 MC star MC sid MC ial ME sid MF star MF sid ML star ML sid ML ial MW star MZ star MZ sid LSZA star LSZA sid	(1) IAS MAX 210kt (2) IAS MAX 280kt (3) or TRL if higher

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	MHA/MHL	Turn R=Right/ Destra L=Left/ Sinistra	Inbound track (MAG)		
1	2			3	4
SRN VOR/DME (Saronno)	6000 (1) (4) FL70 (2) (3) (4) 4000 (1)	L L R	167° 167° 123°	L153 L612 L615 M727 M858 Z982 MC star MC sid MC ial ME sid MF star MF sid ML star ML sid ML ial MW star MZ star MZ sid PO star PX star LSZA star LSZA sid	(1) IAS MAX 210kt (2) IAS MAX 280kt (3) or TRL if higher (4) FL90 ATC Discretion
TAG VOR/DME (Grottaglie)	5000 (1)	L	190°	BG star BG sid BG ial	(1) IAS MAX 200kt
TAQ VOR/DME (Tarquinia)	6000 (1) 6000 (1)(2)	L L	140° 140°	L865 M727 M738 Z242 RA sid RF star RF ial	(1) IAS MAX 210kt up to transition level (2) RNAV Holding - Leg Distance 3NM Waypoint Distance 4.6NM
TEA VOR/DME (Teano)	5000 (1) 6000 (2) FL 130 (3)(4)(5)	R L R	322° 334° 155°	L995 M736 Z803 RN star RN sid RN ial	(1) IAS MAX 210kt (2) Holding VOR/DME inbound to the station reserved to missed approach: - Nominal limiting distances between 40NM and 44NM on RDL154 TEA VOR/DME IAS MAX 230kt (3) Holding ATC Discretion (4) RNAV Holding - Outbound Leg 4.8NM Timing 1min IAS MAX 230Kt (5) Max Holding Level FL200
TES VOR/DME (Tessera)	3000	R	292°	PZ star PZ sid PZ ial	Holding VOR/DME inbound to the station reserved to missed approach: - Nominal limiting distances between 9NM and 12NM on RDL112 TES VOR/DME IAS MAX 185kt
TNT VOR/DME (Trento)	10000	L	358°	T134 DT star DT sid DT ial KC ial	
TOP VOR/DME (Torino)	6000 5000 (1) 4000 (2) FL90 6000 (3)	R R R R	279° 279° 279° 097° 285°	KY139 L50 M135 M730 P860 Y11 MC sid MF star MF sid MF ial ML star MW star MZ star MZ sid MZ ial LSZA star	(1) Reserved to missed approach (2) ATC discretion only (3) RNAV Holding - Leg Distance 4.3NM Waypoint Distance = 5.9NM
TRE L (Treviso)	3000	R	066°	PH star PH sid PH ial	1) IAS MAX 210kt
TRP NDB (Trapani)	4000 5000	L R	333° 140°	CJ sid CT star CT sid CT ial	

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	MHA/MHL	Turn R=Right/ Destra L=Left/ Sinistra	Inbound track (MAG)		
1	2			3	4
TRP VORTAC (Trapani)	5000 4000 (1) 5000 4000 (1) 4000 (2) (3)	L L R R L	326° 326° 149° 149° 306°	L869 M622 M727 CJ star CJ sid CT star CT sid CT ial	(1) Reserved to missed approach (2) Holding VOR/DME inbound to the station: - Nominal limiting distances between 12NM TRP TAC (13NM TRA DME) and 18NM TRP TAC (19NM TRA DME) on RDL126 TRP VORTAC (3) IAS MAX 265kt
TVS VOR/DME (Treviso)	3000	L	240°	PH star PH sid PH ial	Outbound leg must not exceed 5NM TVS DME IAS MAX 210 KT
TZO NDB (Trezzo)	3000	L	323°	L995 Q95 Z982 MC sid ME star ME sid MJ star ML star ML sid ML ial MP star MP sid PO star PX star	
TZO VOR/DME (Trezzo)	3000	L	323°	L995 Q95 Z982 MC star MC sid ME star ME sid MJ star ML star ML sid ML ial MP star MP sid PO star PX star	
URB NDB (Urbe)				RA sid	
VIC VOR/DME (Vicenza)	5500 (1) 6000 (2)	L L	062° 062°	L12 L613 L615 N503 P735 Z495 Z905 DT star PB star PB sid PH star PH sid PZ star PZ sid	(1) IAS MAX 230kt (2) IAS MAX 280kt
VIE VOR/DME (Vieste)				A482 L612 Q920 T214 T415 BD star BD sid	
VIL VORTAC (Villafranca)				MP star MP sid PO star PO sid PO ial PX star PX sid PX ial	

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	MHA/MHL	Turn R=Right/ Destra L=Left/ Sinistra	Inbound track (MAG)		
1	2			3	4
VOG VOR/DME (Voghera)	6000	L	350°	M858 Q712 Q984 MC star MC sid MC ial ME star ME sid MF sid MF ial MJ star ML star ML sid ML ial LSZA star LSZA sid	