

EDDK AD 2.19 Radio navigation and landing aids

Type of aid MAG VAR Type of supported OPS VOR/ILS/MLS declination	ID	Frequency/ Channel/ service provider RPI	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Service volume radius GBAS	Remarks
1	2	3	4	5	6	7	8
<b>Cola</b> DVOR/DME (1° E/2012)	COL	108.80 MHz CH25x	H24	N 50 47 00.70 E 007 35 39.03	968	-	Operational coverage sector 225°–315°: 60 NM, FL 250 sector 315°–225°: 40 NM, FL 250 The DVOR may only be used for the radials in the published en-route, approach and departure procedures and is not permitted for area navigation. DME unusable in sector 225°–315°: below 0 – 10 NM 2000 ft MSL 10 – 20 NM 3500 ft MSL 20 – 30 NM 5000 ft MSL 30 – 40 NM 6600 ft MSL 40 – 50 NM 8400 ft MSL 50 – 60 NM 10300 ft MSL DME unusable in sector 315°–225°: below 0 – 10 NM 2000 ft MSL 10 – 20 NM 3500 ft MSL 20 – 30 NM 5000 ft MSL 30 – 40 NM 6600 ft MSL
<b>Germinghausen</b> DVOR/DME (1° E/2012)	GMH	115.40 MHz CH101x	H24	N 51 10 13.84 E 007 53 31.34	1814	-	Operational coverage sector 0°–360°: 60 NM, FL 500 The DVOR may only be used for the radials in the published en-route, approach and departure procedures and is not permitted for area navigation. DME unusable in sector 0°–360°: below 0 – 10 NM 2900 ft MSL 10 – 20 NM 4100 ft MSL 20 – 30 NM 5500 ft MSL 30 – 40 NM 7000 ft MSL 40 – 46 NM 8000 ft MSL
<b>Koeln-Bonn</b> DVOR/DME (1° E/2012)	KBO	112.15 MHz CH58y	H24	N 50 51 42.04 E 007 08 43.86	292	-	Operational coverage sector 0°–360°: 25 NM, 15000 ft MSL The DVOR may only be used for the radials in the published en-route, approach and departure procedures and is not permitted for area navigation. for area navigation. In addition, the DME can be used for the published procedures. DME unusable in sector 0°–360°: below 0 – 10 NM 1400 ft MSL 10 – 20 NM 2700 ft MSL 20 – 25 NM 3300 ft MSL
LO	LJ	365.00 KHz	H24	N 50 55 37.40 E 007 03 44.26		-	Operational range sector 0°–360°: 25 NM unusable: in sector from station 0°–160° 13 NM 160°–360° 22 NM 139°, 3.77 NM THR 13L