

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
Koeln/Bonn ILS 13L (CAT III) LOC (3° E/2024)	IKES	110.90 MHz	H24	N 50 51 10.32 E 007 10 08.63		-	Usable: Up to 10.7 NM in the area 035°(L)/005°(R) in relation to RCL MIN interception altitude: 1710 ft MSL. From 10.7 NM to 17 NM in the area 035°(L)/005°(R) in relation to RCL MIN interception altitude: 2500 ft MSL. From 17 NM to 25 NM in the area 010°(L)/ 010°(R) in relation to RCL MIN interception altitude: 2500 ft MSL.
GP	-	330.80 MHz	H24	N 50 52 46.15 E 007 08 02.29		-	
OM	dashes	75.00 MHz	H24	N 50 55 37.16 E 007 03 43.73		-	3.77 NM THR 13L
MM	dot- dash	75.00 MHz	H24	N 50 53 11.28 E 007 07 11.91		-	0.50 NM THR 13L
Koeln/Bonn ILS 24 (CAT I) LOC (3° E/2024)	IKOW	109.10 MHz	H24	N 50 51 32.32 E 007 07 12.03		-	Usable: Up to 9.9 NM in the area 021°(L)/035°(R) in relation to RCL MIN interception altitude: 2120 ft MSL. From 9.9 NM to 13 NM in the area 021°(L)/ 035°(R) in relation to RCL MIN interception altitude: 2700 ft MSL. From 13 NM to 17 NM in the area 010°(L)/ 010°(R) in relation to RCL MIN interception altitude: 2700 ft MSL.
GP	-	331.40 MHz	H24	N 50 52 00.86 E 007 09 06.27		-	Usable up to 10 NM BTN 6°(L) and 8°(R) of RCL.
DME	IKOW	CH28x (109.10 MHz *)	H24	N 50 52 00.88 E 007 09 06.25	274	-	* Ghost frequency
Koeln/Bonn ILS 31R (CAT III) LOC (3° E/2024)	IKEN	111.10 MHz	H24	N 50 53 04.02 E 007 07 23.88		-	Usable: Up to 10.7 NM in the area 007°(L)/008°(R) in relation to RCL MIN interception altitude: 1980 ft MSL. From 10.7 NM to 17 NM in the area 007°(L)/008°(R) in relation to RCL MIN interception altitude: 3000 ft MSL. From 17 NM to 25 NM in the area 004°(L)/ 004°(R) in relation to RCL MIN interception altitude: 3000 ft MSL.
GP	-	331.70 MHz	H24	N 50 51 31.62 E 007 09 50.35		-	
DME	IKEN	CH48x (111.10 MHz *)	H24	N 50 51 31.65 E 007 09 50.30	334	-	Operational coverage sector 0°–360°: 25 NM, 10000 ft MSL unusable in sector 020°–160°: below 0 – 10 NM 2900 ft MSL 10 – 20 NM 5600 ft MSL 20 – 25 NM 7000 ft MSL unusable in sector 160°–020°: below 0 – 10 NM 2300 ft MSL 10 – 20 NM 4400 ft MSL 20 – 25 NM 5500 ft MSL In addition, the DME can be used for the published procedures. * Ghost frequency
Noervenich DVORTAC (3° E/2025)	NVO	116.20 MHz CH109x	H24	N 50 49 21.63 E 006 38 11.52	430	-	Operational coverage sector 0°–360°: 60 NM 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.