

## ENR 4 RADIONAVIGATIONSHJÄLPMEDEL / RADIO NAVIGATION AIDS

## 4.1 Radionavigationshjälpmedel – en-route / Radion Navigation Aids – en-route

## 1 Radionavigationshjälpmedel – en-route, Sweden FIR / Radion Navigation Aids – en-route, Sweden FIR

Name of station (VOR/VAR)	ID	Frequency (CH)	Hours of operation	Coordinates	ELEV DME antenna	FRA relevance A = ARR D = DEP I = INT	Remarks
ARLANDA DVOR/DME/ 6°E 2020	ARL	116.00 MHz (107X)	H24	593912.3N 0175452.1E	149 ft	(I)	Coverage FL500/100 NM DVOR on R-286 between 14-12 NM interference that can be mistaken for overhead indication.
AROS DVOR/DME/ 6°E 2020	ARS	112.80 MHz (75X)	H24	593510.4N 0163901.2E	40 ft	(IA)	(A): ESSB  Coverage FL500/80 NM
ARVIDSJAUR DME	ARV	109.35 MHz (30Y)	H24	653552.0N 0191546.3E	1276 ft		Coverage FL500/100 NM
BACKA DME	BAK	112.70 MHz (74X)	H24	573318.6N 0115836.6E	337 ft		Coverage FL500/80 NM
BORLÄNGE VOR/DME/ 5°E 2020	BOR	117.60 MHz (123X)	H24	602517.4N 0153109.1E	513 ft	(I)	Coverage FL500/100 NM Limited range of DME within sector 140°- 290°
BUNGE DME	BGE	116.60 MHz (113X)	H24	575106.9N 0190146.6E	131 ft		Coverage FL500/100 NM
FENGERSFORS DME	FEN	115.35 MHz (100Y)	H24	585500.9N 0121748.6E	608 ft		Coverage FL500/100 NM
FÄRILA DME	FRL	116.50 MHz (112X)	H24	614905.6N 0155045.1E	1233 ft		Coverage FL500/100 NM
HAMMAR DVOR/DME/ 6°E 2020	HMR	112.60 MHz (73X)	H24	601645.2N 0182329.6E	99 ft	(I)	Coverage 315°- 045° FL500/150 NM  Coverage 045°- 315° FL500/100 NM Bearing information within the sector 150°-220° has an interference of a few seconds duration. The distance is proportional to the level (distance 15 NM at 4000 ft, 50 NM at 14 000 ft). The interference can be mistaken for an overhead indication.
HOTING DME	HOT	115.70 MHz (104X)	H24	641403.3N 0155559.8E	2153 ft		Coverage FL500/100 NM
JÖNKÖPING DVOR/DME/ 5°E 2020	JON	115.80 MHz (105X)	H24	574537.6N 0140355.5E	782 ft	(IA)	(A): EKCH, EKRK  Coverage FL500/100 NM
KALMAR VOR/DME/ 6°E 2020	KAL	111.60 MHz (53X)	H24	564107.2N 0161702.8E	26 ft	(I)	Coverage 022.5°- 067.5° FL500/80 NM Coverage 067.5°- 022.5° FL500/160 NM
KARLSTAD VOR/DME/ 5°E 2020	KSD	117.80 MHz (125X)	H24	592632.8N 0131953.6E	341 ft	(ID)	(D): ENGM, ENRY, ENTO, ESSA, ESSB  Coverage FL500/120 NM
KIRUNA DVOR/DME/ 10°E 2020	KRA	115.20 MHz (99X)	H24	674909.3N 0202015.3E	1505 ft	(I)	Coverage FL500/100 NM
LANDVETTER DVOR/DME/ 4°E 2020	LAV	114.60 MHz (93X)	H24	573922.0N 0121723.5E	574 ft	(I)	Coverage FL500/100 NM

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LULEÅ VOR/DME/ 10°E 2020	SLU	115.10 MHz (98X)	H24	653224.8N 0220803.3E	58 ft	(I)	Coverage FL500/60 NM
MÖRBYLÅNGA DME	MBL	115.60 MHz (103X)	H24	561622.7N 0162432.5E	114 ft		Coverage FL500/100 NM
NATTA VOR/DME/ 10°E 2020	NAT	113.00 MHz (77X)	H24	664447.6N 0211921.4E	1279 ft	(I)	Coverage FL500/80 NM
PAJALA DME	PJL	115.35 MHz (100Y)	H24	671455.9N 0230344.2E	594 ft		Coverage FL500/100 NM
RAMSELE DME	RAE	116.70 MHz (114X)	H24	633553.8N 0162448.0E	1187 ft		Coverage FL500/100 NM
RONNEBY DME	RON	109.20 MHz (29X)	H24	561515.3N 0151551.5E	194 ft		Coverage FL500/100 NM
RØNNE VOR/4°E 2016	ROE	112.00 MHz	H24	550356.08N 0144531.29E		(IA)	(A): EKCH, EKRK, ESMS Coverage FL500/80 NM  Coverage 017°- 152° FL500/150 NM DME INFO from TACAN ROE
TACAN 4°E 2017	ROE	(57X)	H24	550342.73N 0144521.07E	78.6		Coverage FL 500/80 NM
SKELLEFTEÅ DVOR/DME/ 10°E 2025	SKA	113.40 MHz (81X)	H24	643736.1N 0210445.9E	189 ft	(I)	Coverage FL500/60 NM
SOPPERO DME	SPO	115.90 MHz (106X)	H24	680531.0N 0214125.8E	1313 ft		Coverage FL500/100 NM
STORUMAN DVOR/DME/ 8°E 2020	SUM	116.30 MHz (110X)	H24	645719.6N 0174229.8E	956 ft		Coverage FL500/100 NM
STURUP VOR/DME/ 4°E 2020	SUP	113.00 MHz (77X)	H24	553204.3N 0132246.5E	259 ft	(I)	Coverage FL500/80 NM
SUNDSVALL DVOR/DME/ 7°E 2020	SUN	113.10 MHz (78X)	H24	623142.4N 0172655.4E	46 ft	(I)	Coverage FL500/100 NM DVOR and DME on R-022 is approved to use from 22 NM and restricted due to low signal level between 30 NM and 22 NM.
SVEDA DME	SVD	116.20 MHz (109X)	H24	561008.1N 0123425.3E	45 ft		Coverage FL500/100 NM
SVEG DME	SVE	113.95 MHz (86Y)	H24	620247.2N 0142443.4E	1175 ft		Coverage FL500/100 NM
TEBBY DVOR/DME/ 6°E 2020	TEB	117.10 MHz (118X)	H24	593154.1N 0181211.9E	210 ft	(I)	Coverage FL500/100 NM
TROSA DVOR/DME/ 6°E 2020	TRS	114.30 MHz (90X)	H24	585616.5N 0173008.3E	208 ft	(I)	Coverage FL500/80 NM
UMEÅ VOR/DME/ 8°E 2020	UME	114.10 MHz (88X)	H24	634719.0N 0201706.8E	33 ft	(I)	Coverage FL500/150 NM
VASSEN DVOR/DME/ 6°E 2020	VSN	115.25 MHz (99Y)	H24	581811.7N 0154235.6E	438 ft	(I)	Coverage FL500/100 NM

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VISBY VOR/DME/ 6°E 2020	VSX	115.10 MHz (98X)	H24	573934.3N 0182048.7E	154 ft	(I)	Coverage FL500/80 NM
ÖRNSKÖLDSEVIK VOR/DME/ 8°E 2020	OSK	115.00 MHz (97X)	H24	632421.8N 0185936.8E	356 ft	(I)	Coverage FL500/60 NM
ÖSTERSUND DVOR/DME/ 5°E 2020	OSS	114.65 MHz (93Y)	H24	631158.4N 0142915.2E	1201 ft	(I)	Coverage FL500/150 NM No VOR/DME coverage BTN R-120 and R-150 outside OSS DME 25 below 6600 ft AMSL.