

CRANES OPERATING IN ROENNE HARBOUR
(NEAR EKRN AERODROME)

Ref. AIP Denmark, AIRAC SUP 24/25.
Note: This SUP replaces RDAF FLIP SUP 03/24.

1 Introduction

From November 28 2024 to March 31 2026, several land based cranes extending up to 348 FT MSL will be working in Rønne Harbour on a temporary basis. Some of these cranes penetrate the Conical surface, but do not affect the instrument flight procedures at Bornholm/Rønne Airport.

During the same period, two ship based-cranes, Rønne Havn 1, 525 FT MSL and Rønne Havn 2, 689 FT MSL may operate in Rønne Harbour on a temporary basis. The presence of these cranes will impact the instrument flight procedures at Bornholm/Rønne Airport.

To address this, three separate sets of instrument flight procedures have been established and these procedures will include additional instructions, guidelines, limitations, or restrictions to ensure the safe navigation of aircraft in the vicinity of the cranes.

2 Operational Implications

2.1 Temporary obstacles.

Obstacles penetrating obstacle limiting surfaces					
OBST ID / Designation	OBST type	OBST position	ELEV (FT)	HGT AGL (FT)	Markings / Type, Colour
Rønne Havn 1	Crane	55 05 14.88N 014 41 29.30E	525	515	LIM FLG W
Rønne Havn 2	Crane	55 05 26.83N 014 41 21.16E	689	679	LIH FLG W
Rønne Havn 3	Wind turbine parts (24)	55 05 24.04N 014 41 35.20E	273	263	LIM F R
Rønne Havn 4	Cranes	55 05 21.55N 014 41 22.80E	348	338	LIM F R

2.2 Instrument approach procedures

As of AIRAC 28 NOV 2024 all existing procedures are renamed with identification Z (except for COPTER ILS or LOC RWY 29 which is not affected by crane operations). In addition to existing instrument approach procedures, temporary procedures with identification Y and X are published, except for the **HPMA TACAN RWY 11** which is not authorised as a Y- and X-procedure.

continued...

Z-PROCEDURES:

Existing IAC	Renamed/temporary IAC	Operational use
ILS or LOC RWY 11	ILS or LOC Z RWY 11	When cranes up to 348 FT are in operation / Cranes shown on chart
ILS or LOC RWY 29	ILS or LOC Z RWY 29	
COPTER ILS or LOC RWY 11	COPTER ILS or LOC Z RWY 11	
HPMA TACAN RWY 11	HPMA TACAN Z RWY 11	
HPMA TACAN RWY 29	HPMA TACAN Z RWY 29	
RNP RWY 11	RNP Z RWY 11	
RNP RWY 29	RNP Z RWY 29	

Y-PROCEDURES:

Existing IAC	Renamed/temporary IAC	Operational use
ILS or LOC RWY 11	ILS or LOC Y RWY 11	When the 525 FT crane is in operation / Crane shown on chart
ILS or LOC RWY 29	ILS or LOC Y RWY 29	
COPTER ILS or LOC RWY 11	COPTER ILS or LOC Y RWY 11	
HPMA TACAN RWY 29	HPMA TACAN Y RWY 29	
RNP RWY 11	RNP Y RWY 11	
RNP RWY 29	RNP Y RWY 29	

HPMA TACAN RWY 11 is not available as a Y-procedure.

X-PROCEDURES:

Existing IAC	Renamed/temporary IAC	Operational use
ILS or LOC RWY 11	ILS or LOC X RWY 11	When the 689 FT crane is in operation / Crane shown on chart
ILS or LOC RWY 29	ILS or LOC X RWY 29	
COPTER ILS or LOC RWY 11	COPTER ILS or LOC X RWY 11	
HPMA TACAN RWY 29	HPMA TACAN X RWY 29	
RNP RWY 11	RNP X RWY 11	
RNP RWY 29	RNP X RWY 29	

HPMA TACAN RWY 11 is not available as an X-procedure.

ATC WILL NOTIFY ARRIVING AIRCRAFT OF
WHICH SET OF PROCEDURE IS IN FORCE.

continued...

2.3 Departure procedures

Omnidirectional departure:

RWY 11: No changes.

RWY 29: After departure turn left, climb on track 274° to 1000 FT MSL before turn is commenced. Procedure design gradient 5.5% up to 900 FT MSL due to Crane at 689 FT / 2.3 NM NW of THR11.

Remark RWY 29: Can Aircraft not comply contact ATC 24H before ETD for alternative departure. Availability depending on OBST Rønne Havn 1 and 2.

Alternative Omnidirectional departure RWY 29: After departure turn left, climb on track 274° to 700 FT MSL before turn is commenced.

2.4 Noise Abatement Provisions

RWY 29: IFR: After departure turn left, climb on track 274 until ROE DME 5.

3 General

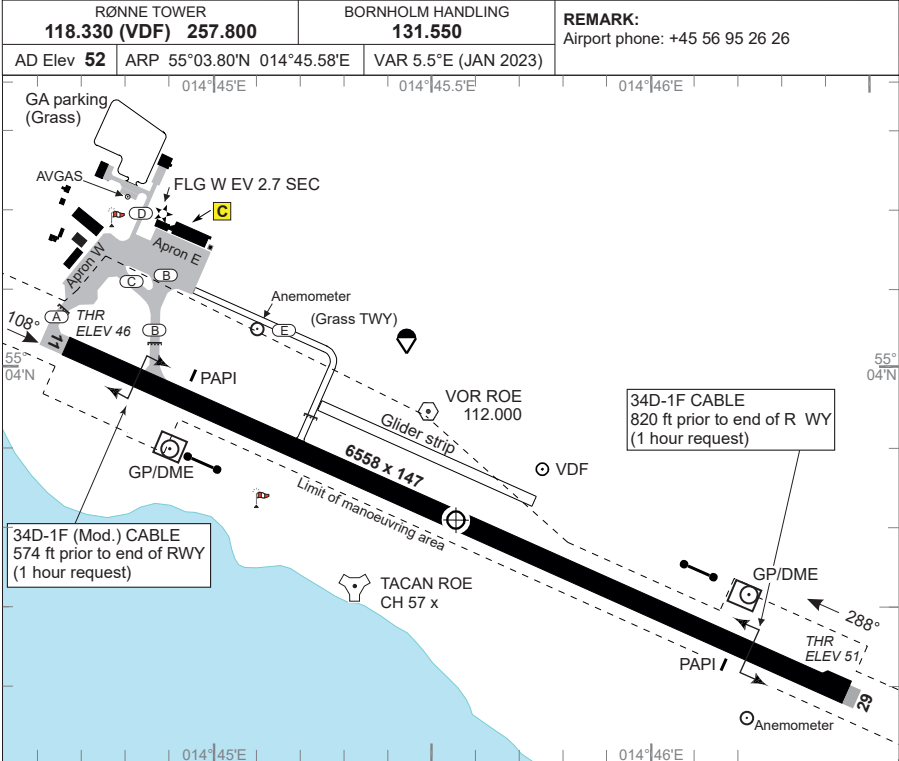
Further information will be contained in NOTAM.

4 Completion of works

Completion of works will be published in an AIRAC SUP cancellation, expected at the end of March 2026.

AERODROME CHART

ROENNE (EKRN)



RWY	PCN	DECLARED DISTANCES						RWY LIGHTING						THR PSN
		PSN	TORA	TODA	ASDA	LDA	THR ELEV	THR	PAPI	TDZ	CL	EDGE	END	
11	38 F/B/X/T	THR				6568	46	LIH	3.00°			LIH	LIH	55°04.01'N 014°44.71'E
		A	6568	6568	6568									
		B	5928	5928	5928									
29		THR	6568	6568	6568	6568	51	LIH	3.00°			LIH	LIH	55°03.58'N 014°46.43'E

Flight Procedures

1. IFR Arrival

1.1 Aircraft will normally be cleared by SWEDEN CONTROL to ROE VOR.

1.2 Navigation aid designated for radio communication failure during IMC for arriving aircraft is NDB FAU.

2. IFR Departure

2.1 Standard Instrument Departures (SID) have not been established.

2.2 Omnidirectional departures

RWY 11: Climb straight ahead to at least 700 FT MSL before turn is commenced.

RWY 29: After departure turn left, climb on track 274° to 1000 FT MSL before turn is commenced. Procedure design gradient 5.5% up to 900 FT MSL due to Crane at 689 FT / 2.3 NM NW of THR11.

Remark RWY 29: Can Aircraft not comply, contact ATC 24H before EDT for alternative departure. Availability depending on OBST Rønne Havn 1 and 2.

Alternative Omnidirectional departure RWY 29:

After departure turn left, climb on track 274° to 700 FT MSL before turn is commenced.

AERODROME CHART

ROENNE (EKRN)

MIPS
INSTRUMENT APPROACH CHART

ILS or LOC Z RWY 11
ROENNE (EKRN)

Table with 2 main sections: SWEDEN CONTROL (LOC/DME, VORTAC, APP COURSE, GS INTCP ALT) and ROENNE TOWER (GS, DA, THR, ALS length, LDA).

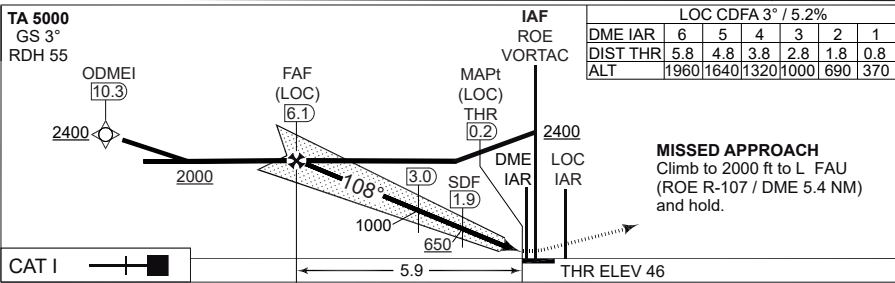
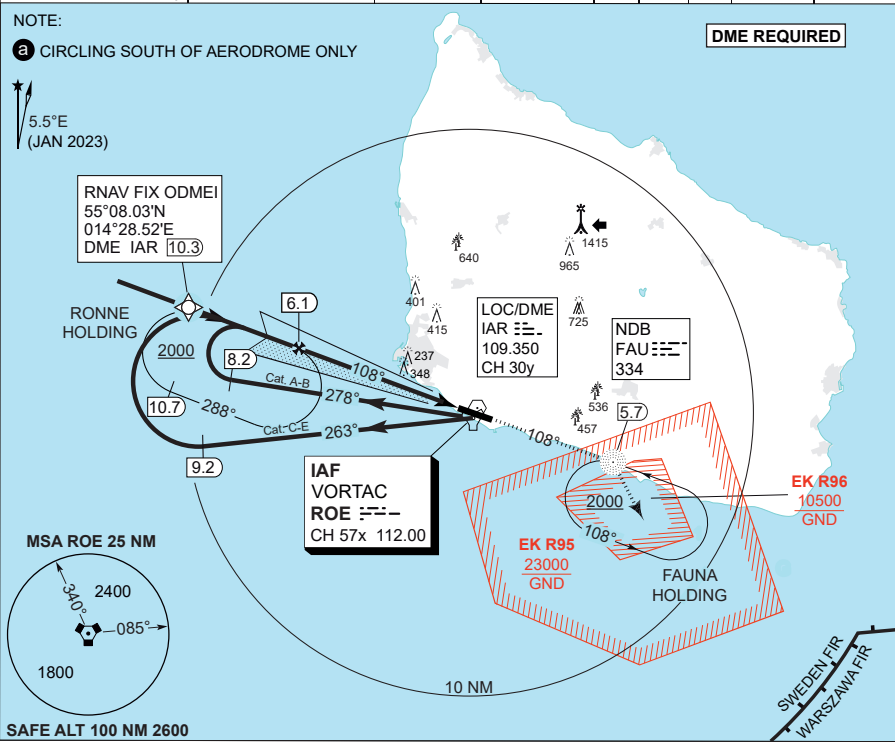


Table with 6 columns: CATEGORY, A, B, C, D, E. Rows include S-ILS 11, S-LOC 11, and CIRCLING with associated altitudes and distances.

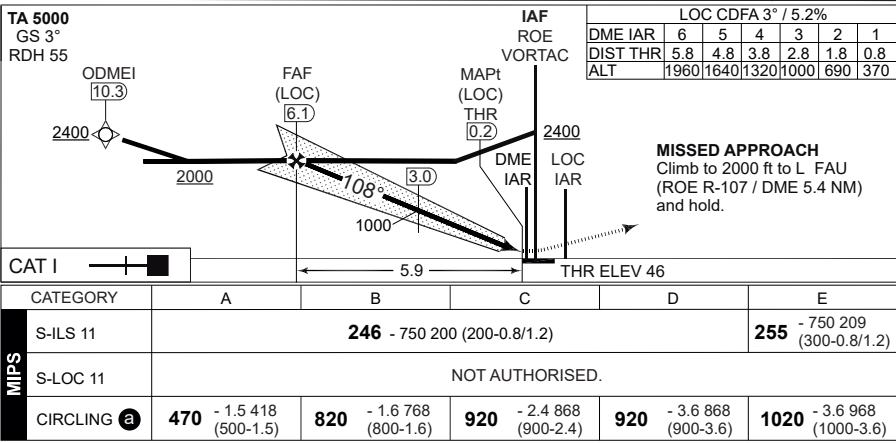
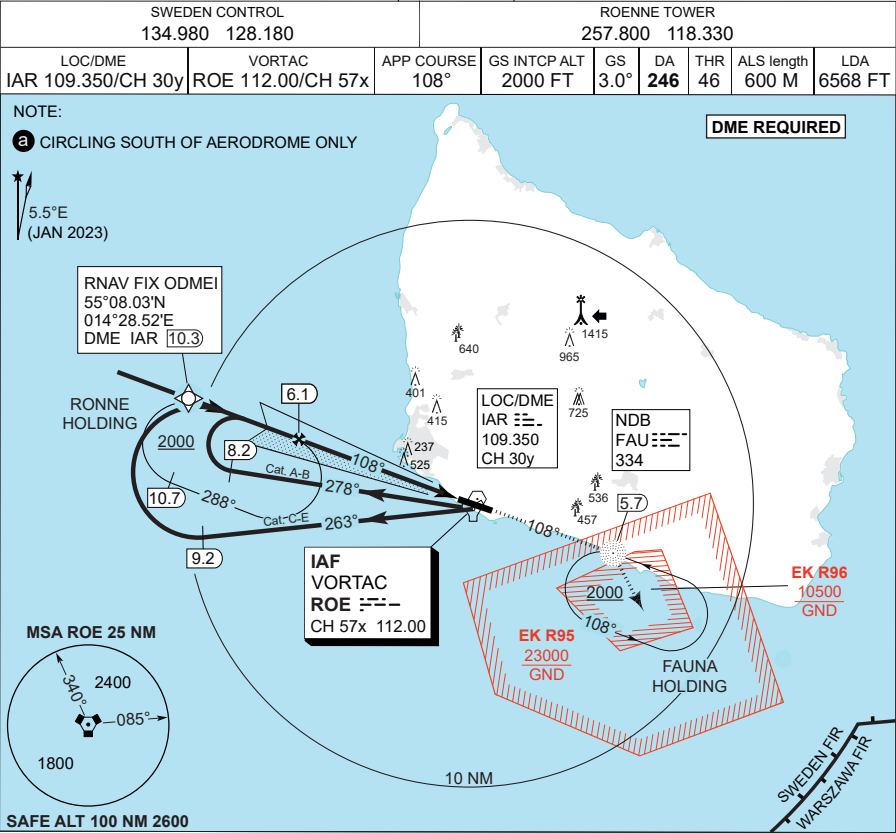
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 52

ILS or LOC Y RWY 11

ROENNE (EKRN)



MIPS
INSTRUMENT APPROACH CHART

ILS or LOC X RWY 11
ROENNE (EKRN)

Table with 2 main sections: SWEDEN CONTROL (LOC/DME, VORTAC, APP COURSE, GS INTCP ALT) and ROENNE TOWER (GS, DA, THR, ALS length, LDA).

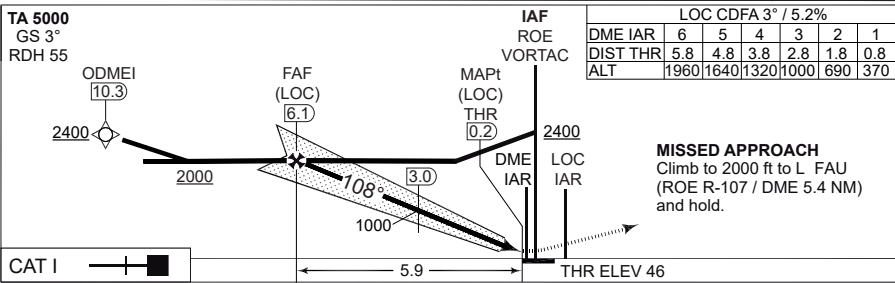
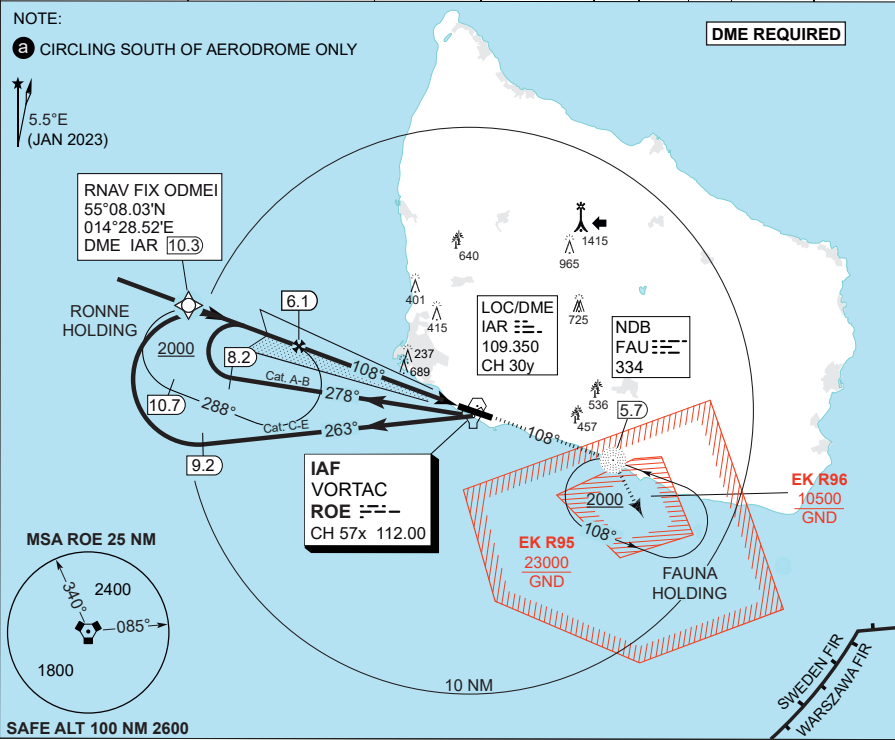


Table with 6 columns: CATEGORY, A, B, C, D, E. Rows include S-ILS 11, S-LOC 11, and CIRCLING with associated altitudes and distances.

MIPS

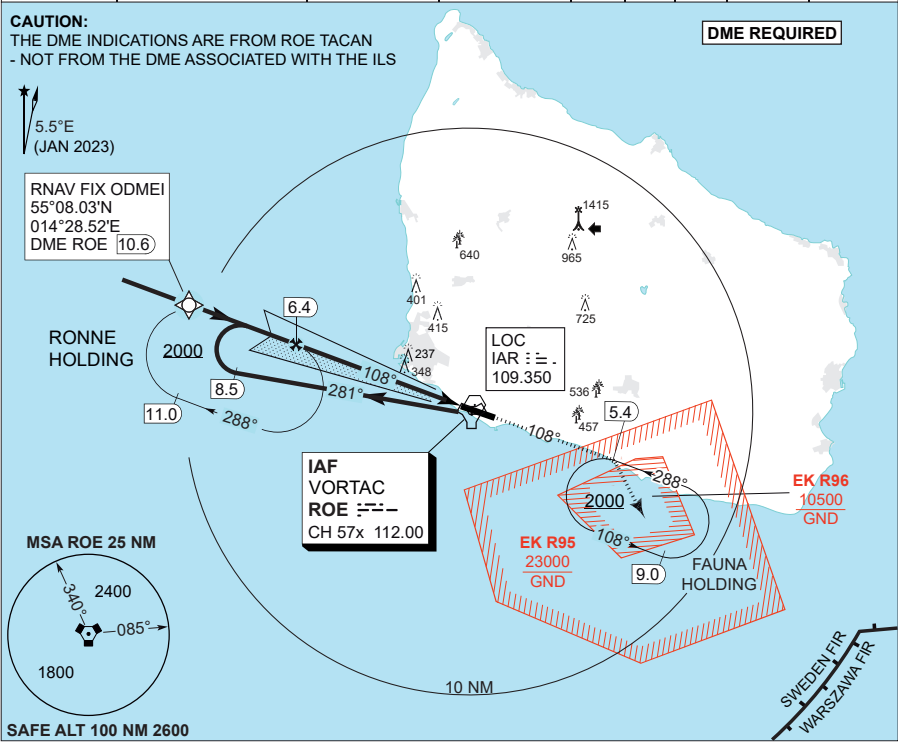
INSTRUMENT APPROACH CHART

AD ELEV 52

COPTER ILS or LOC Z RWY 11

ROENNE (EKRN)

SWEDEN CONTROL 134.980 128.180				ROENNE TOWER 257.800 118.330				
LOC IAR 109.350	VORTAC ROE 112.00/CH 57x	APP COURSE 108°	GS INTCP ALT 2000 FT	GS 3.0°	DA 246	THR 46	ALS length 600 M	LDA 6568 FT

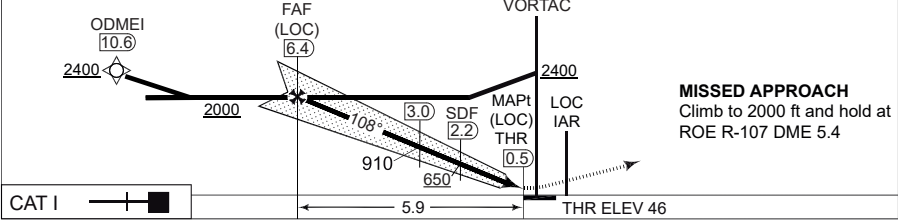


DME ROE	6	5	4	3	2
DIST THR	5.6	4.6	3.6	2.6	1.6
ALT	1870	1550	1230	910	600

TA 5000

GS 3°

RDH 55

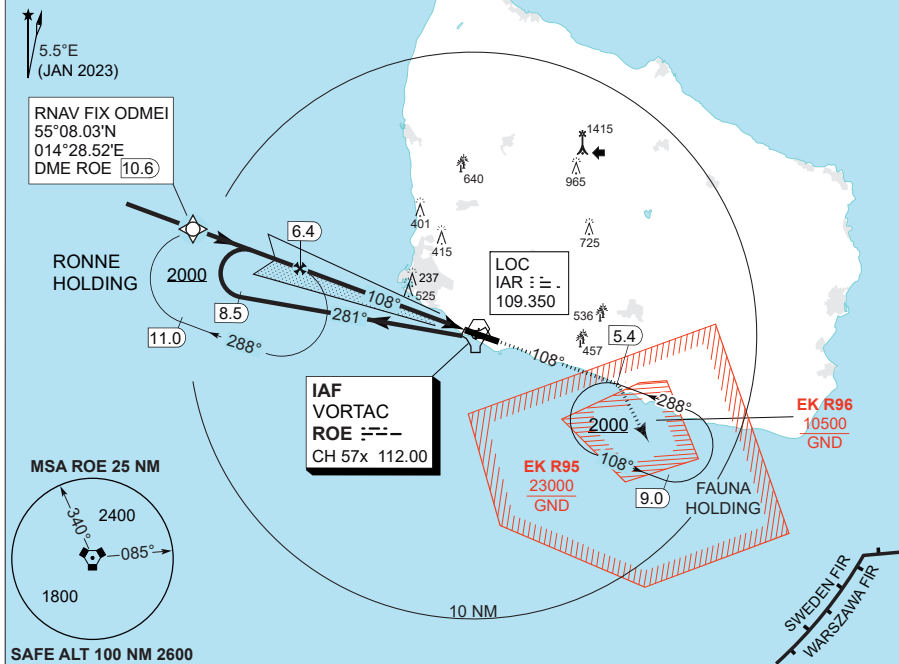


CATEGORY	H
H-ILS 11	246 - 400 200 (200-0.4/0.8)
H-LOC 11	330 - 400 284 (300-0.4/0.8)

SWEDEN CONTROL		
134.980 128.180		
LOC	VORTAC	APP COURSE
IAR 109.350	ROE 112.00/CH 57x	108°

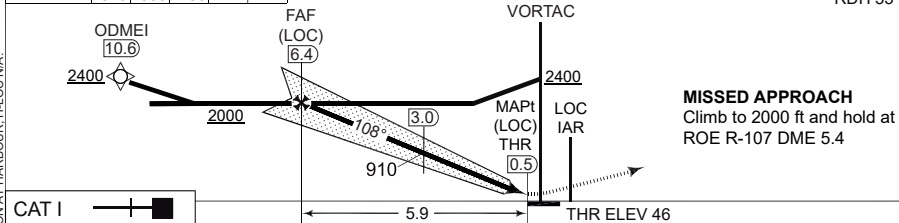
ROENNE TOWER			
257.800 118.330			
DA	THR	ALS length	LDA
246	46	600 M	6568 FT

DME REQUIRED



DME ROE	6	5	4	3	2
DIST THR	5.6	4.6	3.6	2.6	1.6
ALT	1870	1550	1230	910	600

TA 5000
GS 3°
RDH 55



	CATEGORY	H
MIPS	H-ILS 11	246 - 400 200 (200-0.4/0.8)
	H-LOC 11	NOT AUTHORISED.

COPTER ILS or LOC Y RWY 11

55°03.80'N
014°45.58'E
10-3

ROENNE (EKRN)

CHANGES: OBST. ELEVATION AT HARBOUR, H-LOC N/A.

AIR COMMAND DENMARK - MIL AIM 28 NOV 2024 - RDAE FLIP SUP.

MIPS

INSTRUMENT APPROACH CHART

AD ELEV 52

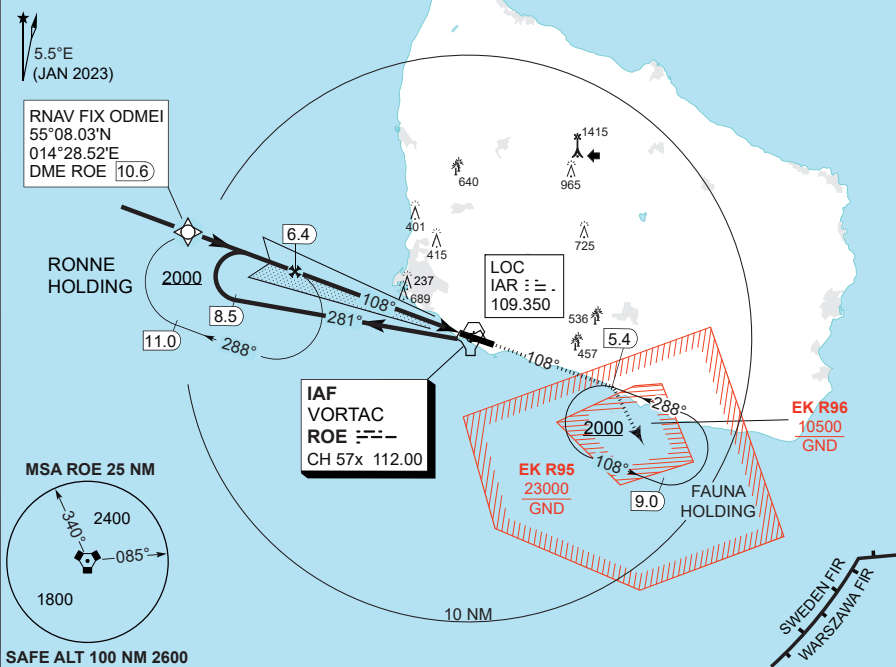
COPTER ILS or LOC X RWY 11

ROENNE (EKRN)

SWEDEN CONTROL 134.980 128.180				ROENNE TOWER 257.800 118.330				
LOC IAR 109.350	VORTAC ROE 112.00/CH 57x	APP COURSE 108°	GS INTCP ALT 2000 FT	GS 3.0°	DA 246	THR 46	ALS length 600 M	LDA 6568 FT

CAUTION:
THE DME INDICATIONS ARE FROM ROE TACAN
- NOT FROM THE DME ASSOCIATED WITH THE ILS

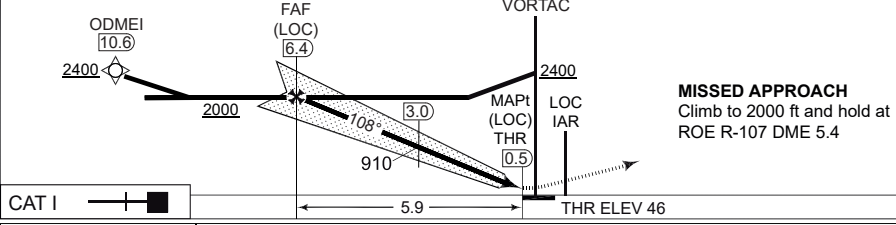
DME REQUIRED



SAFE ALT 100 NM 2600

DME ROE	6	5	4	3	2
DIST THR	5.6	4.6	3.6	2.6	1.6
ALT	1870	1550	1230	910	600

TA 5000
GS 3°
RDH 55

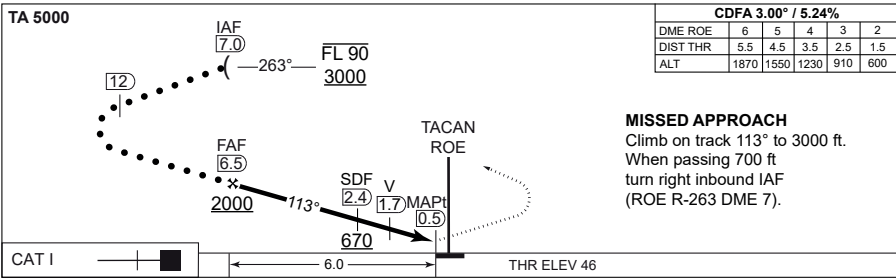
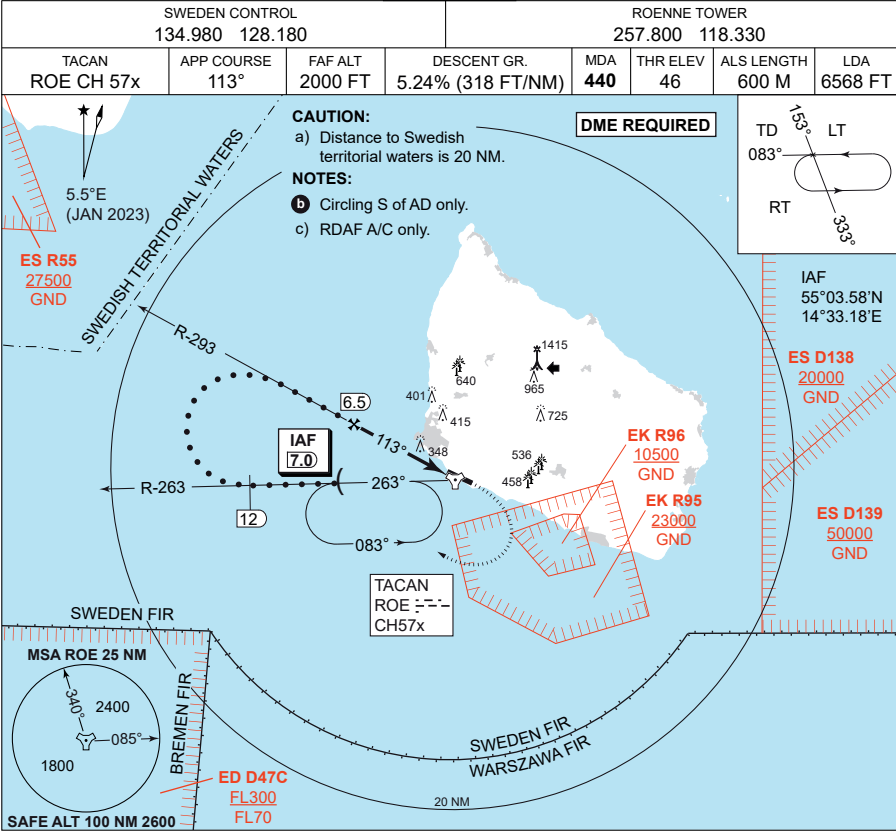


MISSED APPROACH
Climb to 2000 ft and hold at
ROE R-107 DME 5.4

CAT I	H
CATEGORY	H
H-ILS 11	246 - 400 200 (200-0.4/0.8)
H-LOC 11	NOT AUTHORISED.

MIPS
INSTRUMENT APPROACH CHART

HPMA TACAN Z RWY 11
ROENNE (EKRN)



CATEGORY	HPMA
S-TACAN 11	440 - 1400 388 (400-1.4/1.8)
CIRCLING	650 - 3.2 598 (600-3.2)

CHANGES: OBST. ELEVATION AT HARBOUR, CIRCLING MINIMA.

AIR COMMAND DENMARK - MIL AIM 28 NOV 2024 - RDAF FLIP SUP.

MIPS
INSTRUMENT APPROACH CHART

RNP Z RWY 11
ROENNE (EKRN)

Table with 7 columns: EGNOS CHANNEL, APP COURSE, FAF ALT, Descent GR, DA, THR ELEV, ALS length, LDA. Values include 88336 / E11A, 108°, 2000 FT, 3.00° (5.24%), See CAT, 46, 600, 6568 FT.

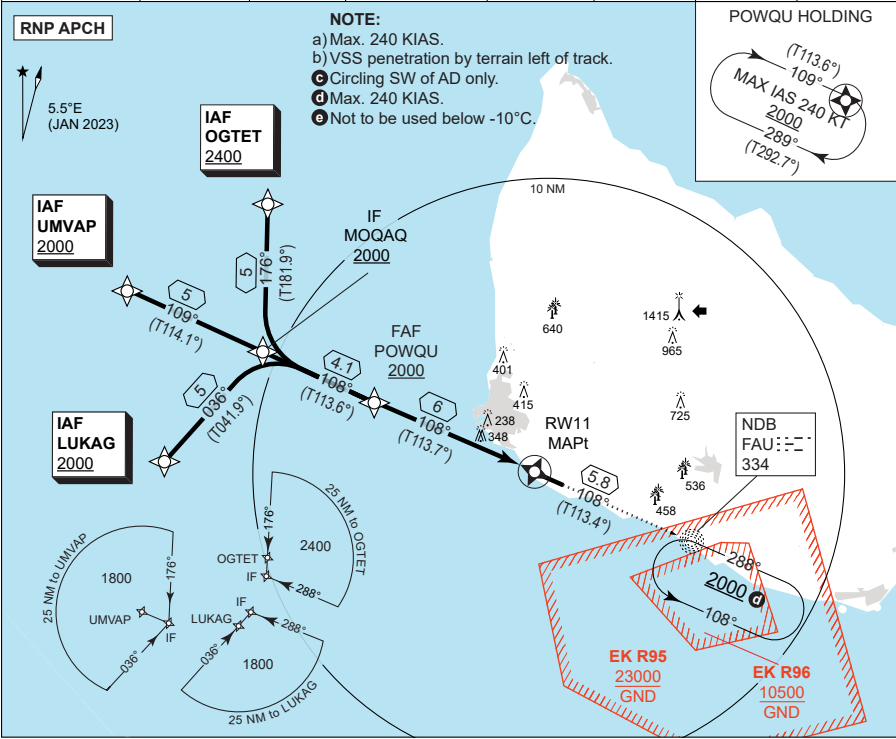


Table with 2 rows: TA 5000, GS 3.00°, RDH 55; and CDFA: 3.00° / 5.24% with DIST THR and ALT values.

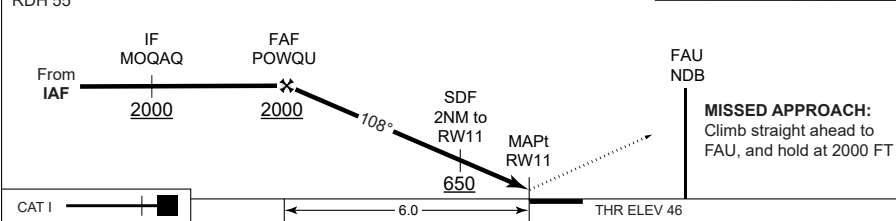


Table with 6 columns (A-E) and 4 rows (LPV, LNAV/VNAV, LNAV, CIRCLING) showing altitudes and distances for different RNP categories.

RNP Z RWY 11
55°03.80'N
014°45.58'E
10-5
ROENNE (EKRN)

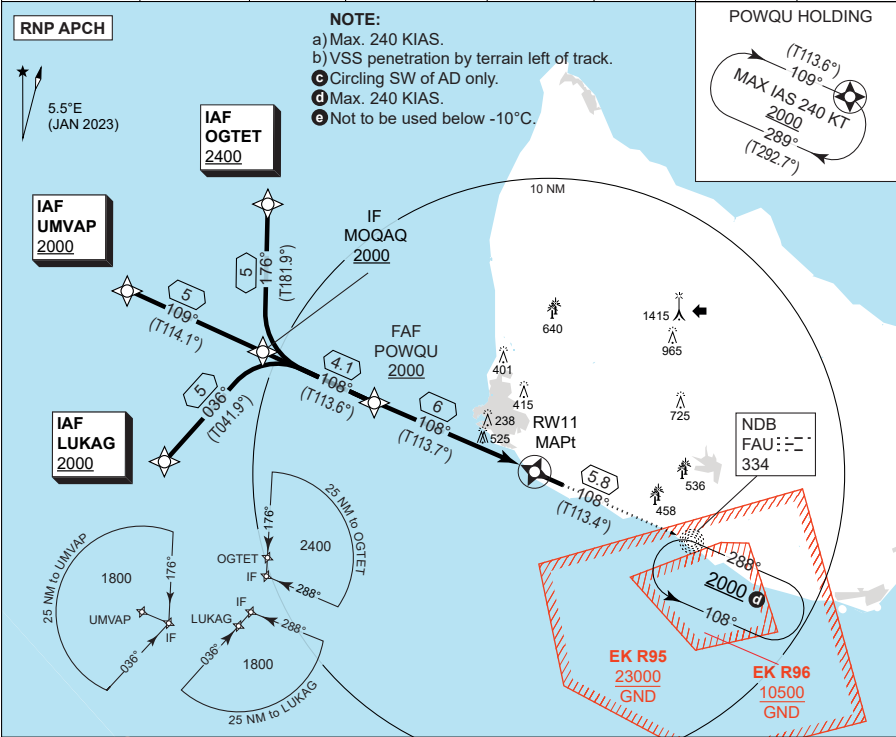
CHANGES: NEW PROCEDURE.

AIR COMMAND DENMARK - MIL AIM 10 JUL 2025

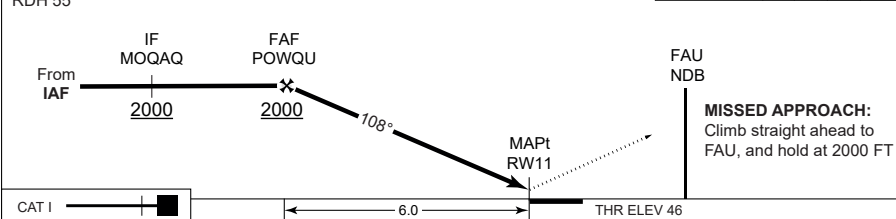
MIPS
INSTRUMENT APPROACH CHART

RNP Y RWY 11
ROENNE (EKRN)

SWEDEN CONTROL 134.980 128.180			ROENNE TOWER 257.800 118.330			
EGNOS CHANNEL 88336 / E11A	APP COURSE 108°	FAF ALT 2000 FT	Descent GR 3.00° (5.24%)	DA See CAT	THR ELEV 46	ALS length 600 LDA 6568 FT



TA 5000 GS 3.00° RDH 55	CDFA: 3.00° / 5.24%					
	DIST THR	2	3	4	5	6
	ALT	730	1050	1370	1690	2000



CATEGORY	A	B	C	D	E
LPV	296 - 600 250 (300-0.8/1.3)	296 - 600 250 (300-0.8/1.3)	305 - 600 259 (300-0.8/1.3)	315 - 600 269 (300-0.8/1.3)	315 - 600 269 (300-0.8/1.3)
LNAV/VNAV e	660 - 1500 614 (700-1.5/2.8)	670 - 1500 624 (700-1.5/2.9)	680 - 2200 634 (700-2.2/2.9)	690 - 2300 644 (700-2.3/3.0)	705 - 2300 659 (700-2.3/3.0)
LNAV	Not authorized				
CIRCLING e	780 - 1.5 728 (800-1.5)	830 - 1.6 778 (800-1.6)	920 - 2.4 868 (900-2.4)	920 - 3.6 868 (900-3.6)	1020 - 3.6 968 (1000-3.6)

RNP Y RWY 11

ROENNE (EKRN)

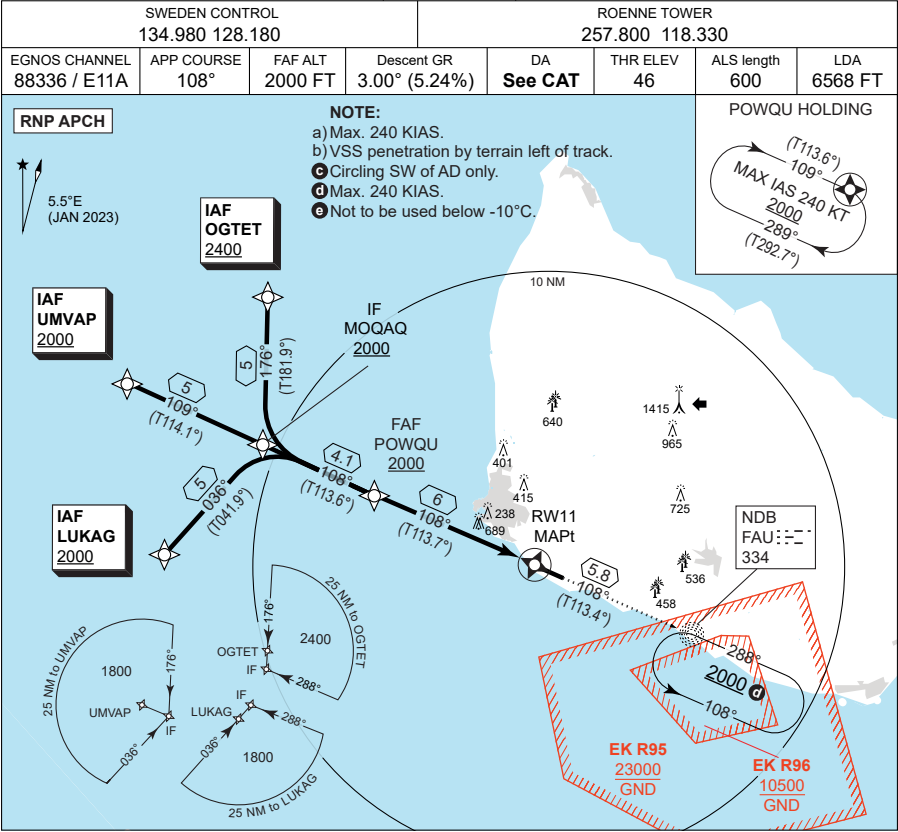
55°03.80'N
014°45.58'E
10-5

MIPS

INSTRUMENT APPROACH CHART

AD ELEV 52

RNP X RWY 11
ROENNE (EKRN)



TA 5000
GS 3.00°
RDH 55

CDFA: 3.00° / 5.24%

From IAF

IF MOQAQ

FAF POWQU

108°

MAPt RW11

FAU NDB

MISSED APPROACH:
Climb straight ahead to FAU, and hold at 2000 FT

CAT I

6.0

THR ELEV 46

CATEGORY	A	B	C	D	E
LPV	790 - 1500 744 (800-1.5/3.5)	800 - 1500 754 (800-1.5/3.5)	810 - 2400 764 (800-2.4/3.6)	820 - 2400 774 (800-2.4/3.6)	830 - 2400 784 (800-2.4/3.6)
LNAV/VNAV ^e	820 - 1500 774 (800-1.5/3.6)	830 - 1500 784 (800-1.5/3.6)	840 - 2400 794 (800-2.4/3.6)	850 - 2400 804 (900-2.4/3.8)	868 - 2400 822 (900-2.4/3.8)
LNAV	Not authorized				
CIRCLING ^e	820 - 1.5 768 (800-1.5)	830 - 1.6 778 (800-1.6)	920 - 2.4 868 (900-2.4)	920 - 3.6 868 (900-3.6)	1020 - 3.6 968 (1000-3.6)

EKRN RNP RWY 11 waypoint coordinates:

RWY 11 from OGTET (Initial LEFT) APPROACH RNP

		CODING		DISPLAY	
OGTET	IAF	55 13 04.93N	014 28 53.52E	55 13.082N	014 28.892E
MOQAQ	IF	55 08 03.45N	014 28 36.48E	55 08.058N	014 28.608E
POWQU	FAF	55 06 24.93N	014 35 08.92E	55 06.416N	014 35.149E
RW11	MAPt	55 04 00.78N	014 44 42.77E	55 04.013N	014 44.713E
FAU	MAHF	55 01 41.49N	014 54 01.79E	55 01.692N	014 54.030E

RWY 11 from UMVAP (Initial STRAIGHT) APPROACH RNP

		CODING		DISPLAY	
UMVAP	IAF	55 10 05.95N	014 20 38.82E	55 10.099N	014 20.647E
MOQAQ	IF	55 08 03.45N	014 28 36.48E	55 08.058N	014 28.608E
POWQU	FAF	55 06 24.93N	014 35 08.92E	55 06.416N	014 35.149E
RW11	MAPt	55 04 00.78N	014 44 42.77E	55 04.013N	014 44.713E
FAU	MAHF	55 01 41.49N	014 54 01.79E	55 01.692N	014 54.030E

RWY 11 from LUKAG (Initial RIGHT) APPROACH RNP

		CODING		DISPLAY	
LUKAG	IAF	55 04 22.18N	014 22 49.96E	55 04.370N	014 22.833E
MOQAQ	IF	55 08 03.45N	014 28 36.48E	55 08.058N	014 28.608E
POWQU	FAF	55 06 24.93N	014 35 08.92E	55 06.416N	014 35.149E
RW11	MAPt	55 04 00.78N	014 44 42.77E	55 04.013N	014 44.713E
FAU	MAHF	55 01 41.49N	014 54 01.79E	55 01.692N	014 54.030E

Threshold coordinates RWY 11

		CODING		DISPLAY	
RWY 11		55 04 00.78N	014 44 42.77E	55 04.013N	014 44.713E

MIPS

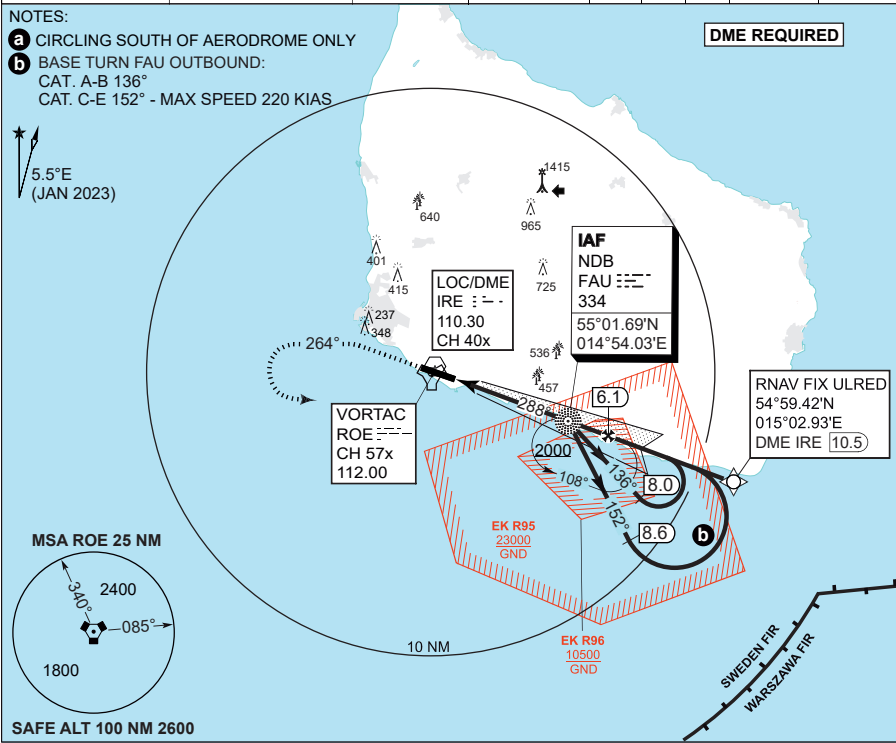
INSTRUMENT APPROACH CHART

AD ELEV 52

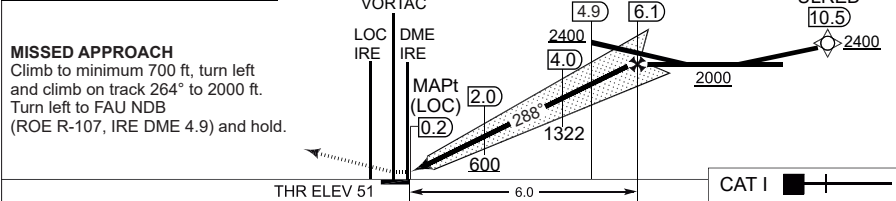
ILS or LOC Z RWY 29

ROENNE (EKRN)

SWEDEN CONTROL			ROENNE TOWER				
134.980 128.180			257.800 118.330				
LOC/DME	VORTAC	APP COURSE	GS INTCP ALT	GS	DA	THR	ALS length
IRE 110.30/CH40x	ROE 112.00/CH 57x	288°	2000 FT	3.0°	251	51	900 M
			LDA	6568 FT			



LOC	CDFA 3.00° / 5.2%					TA 5000 GS 3° RDH 52
DME IRE	2	3	4	5	6	
DIST THR	1.8	2.8	3.8	4.8	5.8	
ALT	690	1010	1330	1640	1960	



CATEGORY	A	B	C	D	E
S-ILS 29	251 - 550 200 (200-0.8/1.2)				
S-LOC 29	400 - 900 348 (400-0.9/1.6)				
CIRCLING a	470 - 1.5 418 (500-1.5)	700 - 1.6 648 (700-1.6)	800 - 2.4 748 (800-2.4)	800 - 3.6 748 (800-3.6)	900 - 3.6 848 (900-3.6)

MIPS

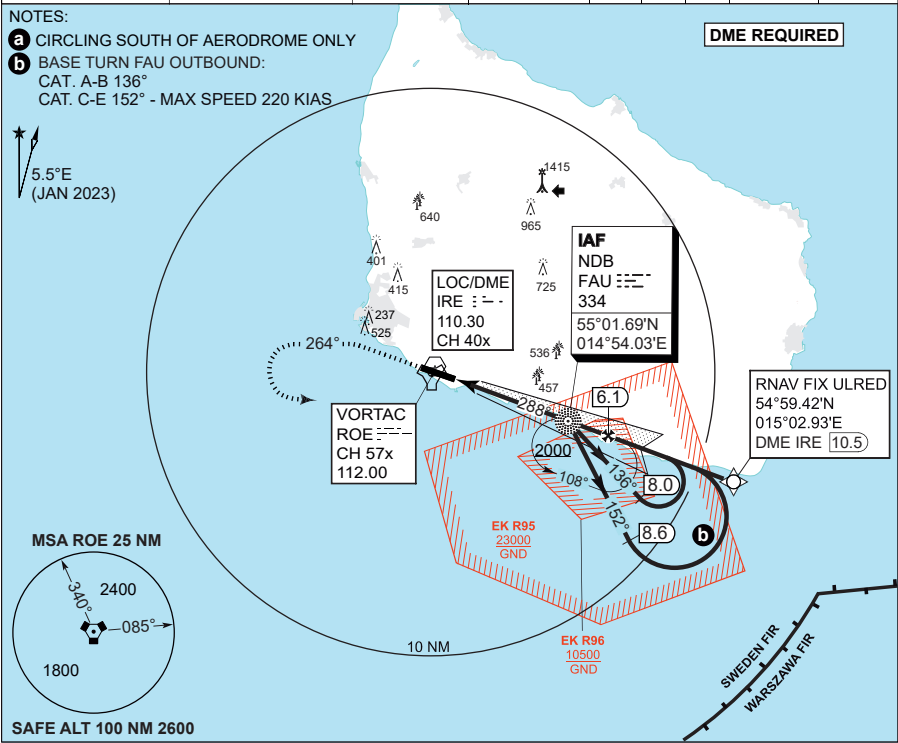
INSTRUMENT APPROACH CHART

AD ELEV 52

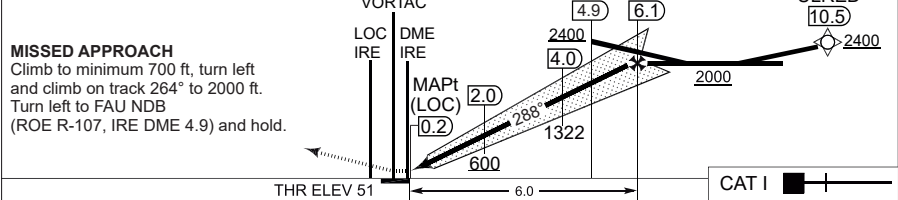
ILS or LOC Y RWY 29

ROENNE (EKRN)

SWEDEN CONTROL				ROENNE TOWER			
134.980 128.180				257.800 118.330			
LOC/DME	VORTAC	APP COURSE	GS INTCP ALT	GS	DA	THR	LDA
IRE 110.30/CH40x	ROE 112.00/CH 57x	288°	2000 FT	3.0°	251	51	900 M 6568 FT



LOC CDFA 3.00' / 5.2%						TA 5000
DME IRE	2	3	4	5	6	GS 3°
DIST THR	1.8	2.8	3.8	4.8	5.8	RDH 52
ALT	690	1010	1330	1640	1960	



CATEGORY	A	B	C	D	E
S-ILS 29	251 - 550 200 (200-0.8/1.2)			255 - 550 204 (300-0.8/1.2)	265 - 550 214 (300-0.8/1.2)
S-LOC 29	400 - 900 348 (400-0.9/1.6)				
CIRCLING a	470 - 1.5 418 (500-1.5)	820 - 1.6 768 (800-1.6)	920 - 2.4 868 (900-2.4)	920 - 3.6 868 (900-3.6)	1020 - 3.6 968 (1000-3.6)

MIPS

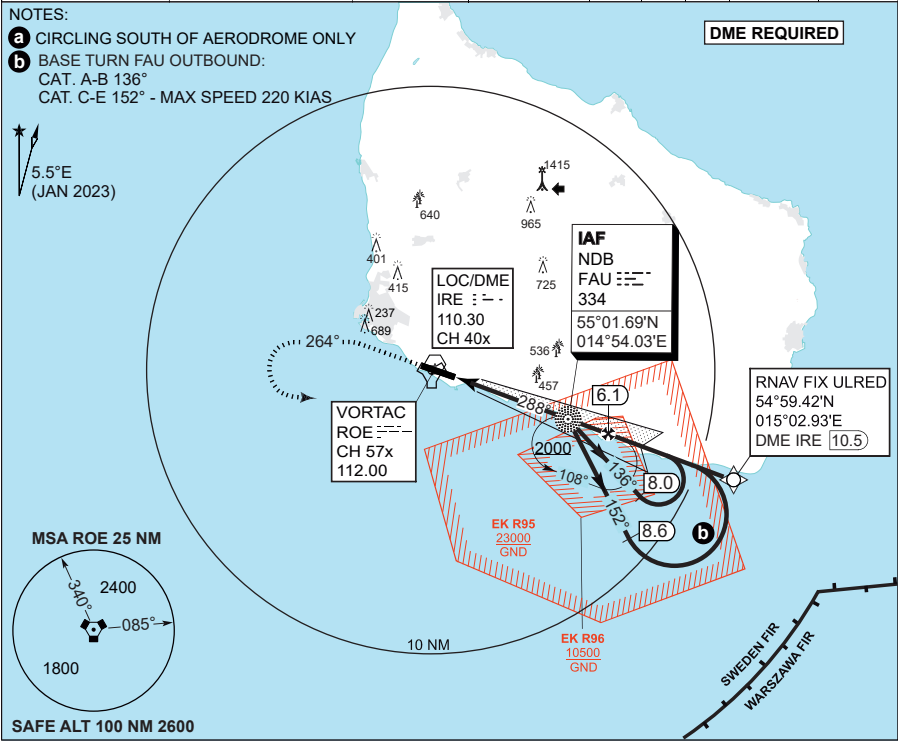
INSTRUMENT APPROACH CHART

AD ELEV 52

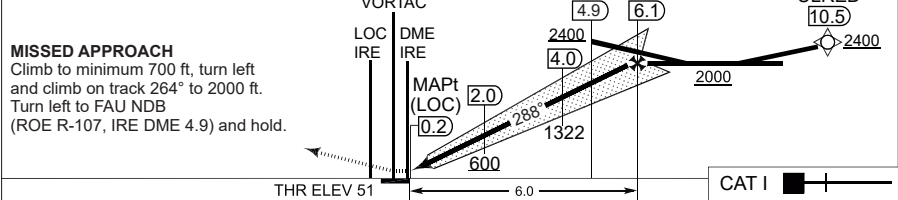
ILS or LOC X RWY 29

ROENNE (EKRN)

SWEDEN CONTROL			ROENNE TOWER				
134.980 128.180			257.800 118.330				
LOC/DME	VORTAC	APP COURSE	GS INTCP ALT	GS	DA	THR	ALS length
IRE 110.30/CH40x	ROE 112.00/CH 57x	288°	2000 FT	3.0°	251	51	900 M
			LDA	6568 FT			



LOC CDFA 3.00' / 5.2%						TA 5000
DME IRE	2	3	4	5	6	GS 3°
DIST THR	1.8	2.8	3.8	4.8	5.8	RDH 52
ALT	690	1010	1330	1640	1960	

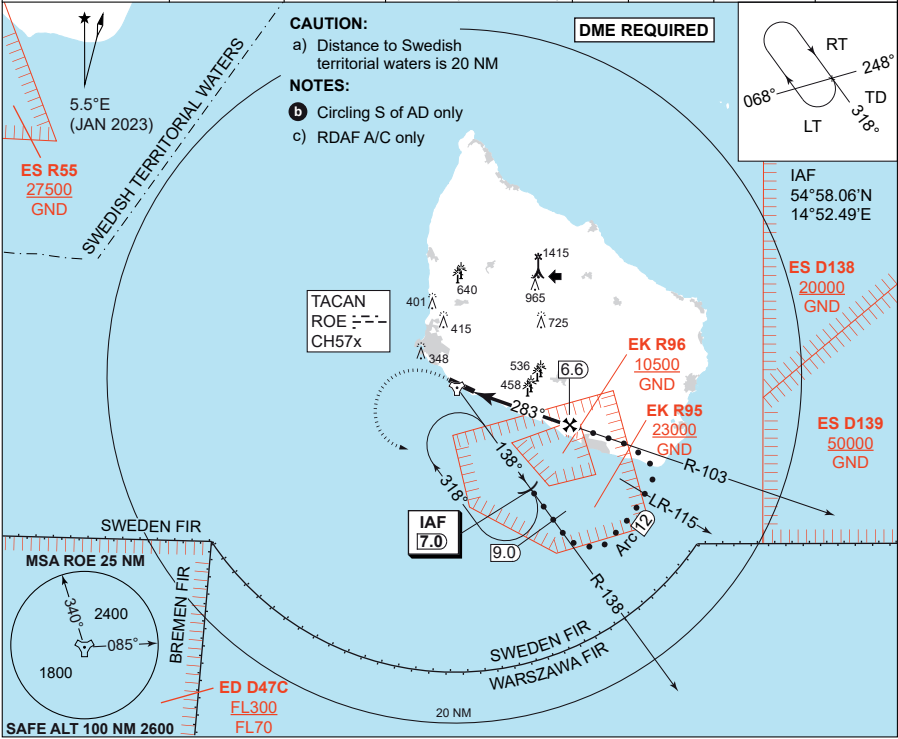


CATEGORY	A	B	C	D	E
S-ILS 29	251 - 550 200 (200-0.8/1.2)			255 - 550 204 (300-0.8/1.2)	265 - 550 214 (300-0.8/1.2)
S-LOC 29	400 - 900 348 (400-0.9/1.6)				
CIRCLING a	470 - 1.5 418 (500-1.5)	820 - 1.6 768 (800-1.6)	920 - 2.4 868 (900-2.4)	920 - 3.6 868 (900-3.6)	1020 - 3.6 968 (1000-3.6)

MIPS
INSTRUMENT APPROACH CHART

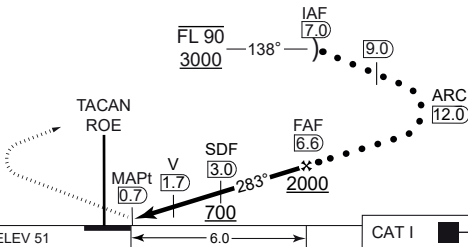
HPMA TACAN Z RWY 29
ROENNE (EKRN)

SWEDEN CONTROL 134.980 128.180		ROENNE TOWER 257.800 118.330			
TACAN ROE CH 57x	APP COURSE 283°	FAF ALT 2000 FT	DESCENT GR. 5.24% (318 FT/NM)	MDA 460	THR ELEV 51
		ALS LENGTH 900 M		LDA 6568 FT	



CDFA 3.00' / 5.24%						
DME ROE	2	3	4	5	6	
DIST THR	1.4	2.4	3.4	4.4	5.4	
ALT	540	860	1180	1500	1820	

MISSED APPROACH
Climb on track 283 to 3000 ft.
When passing 700 ft
turn left inbound IAF
(ROE R-138 DME 7).



CATEGORY	HPMA
S-TACAN 29	460 - 1200 408 (500-1.2/1.9)
CIRCLING	650 - 3.2 598 (600-3.2)

HPMA TACAN Z RWY 29

55°03.80'N
014°45.58'E
10-9

ROENNE (EKRN)

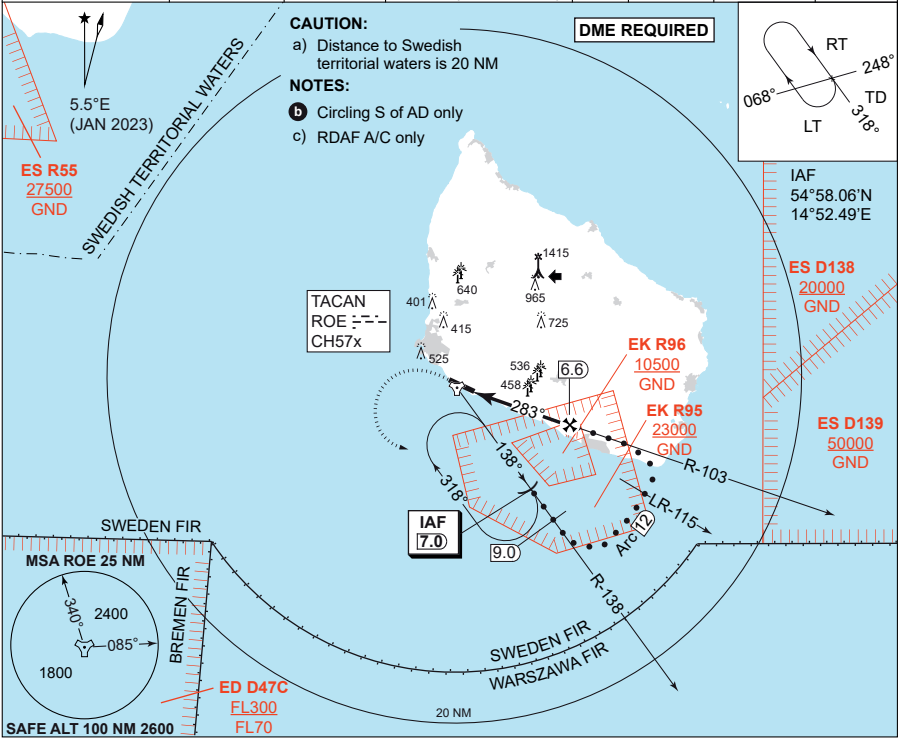
CHANGES: PAGE NR.

AIR COMMAND DENMARK - MILAIM 10 JUL 2025 - RDAF FLIP SUP.

MIPS
INSTRUMENT APPROACH CHART

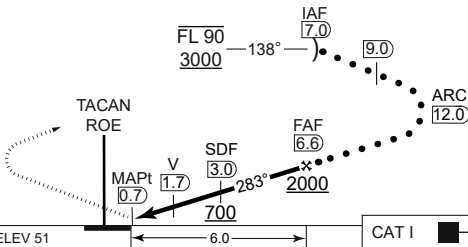
HPMA TACAN Y RWY 29
ROENNE (EKRN)

SWEDEN CONTROL 134.980 128.180		ROENNE TOWER 257.800 118.330			
TACAN ROE CH 57x	APP COURSE 283°	FAF ALT 2000 FT	DESCENT GR. 5.24% (318 FT/NM)	MDA 460	THR ELEV 51
		ALS LENGTH 900 M		LDA 6568 FT	



CDFA 3.00 / 5.24%						
DME ROE	2	3	4	5	6	
DIST THR	1.4	2.4	3.4	4.4	5.4	
ALT	540	860	1180	1500	1820	

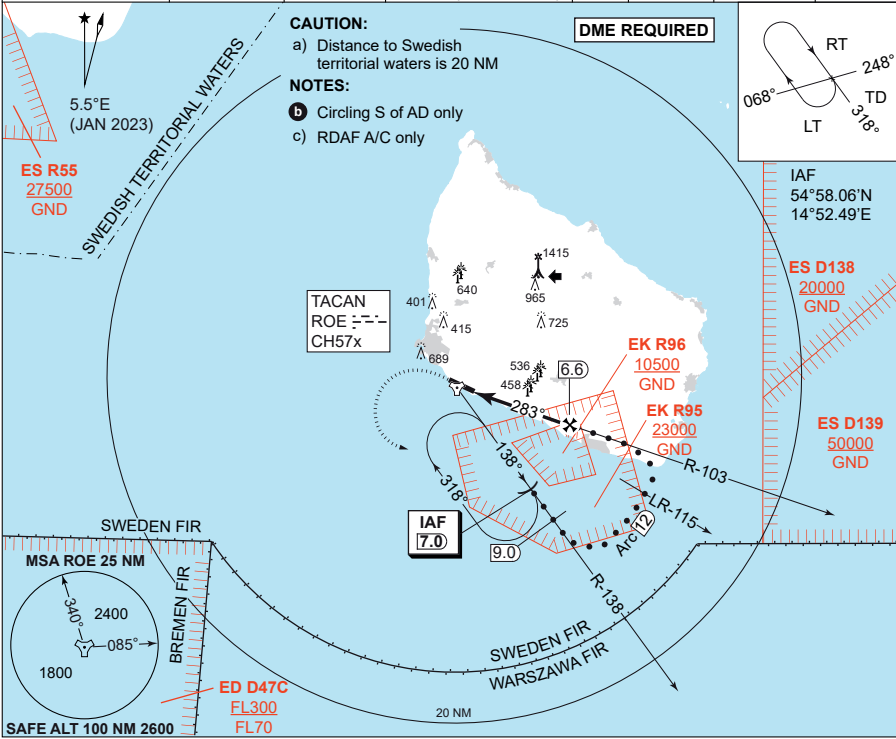
MISSED APPROACH
Climb on track 283 to 3000 ft.
When passing 700 ft
turn left inbound IAF
(ROE R-138 DME 7).



MIPS
INSTRUMENT APPROACH CHART

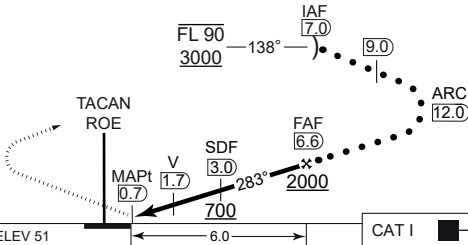
HPMA TACAN X RWY 29
ROENNE (EKRN)

SWEDEN CONTROL 134.980 128.180		ROENNE TOWER 257.800 118.330			
TACAN ROE CH 57x	APP COURSE 283°	FAF ALT 2000 FT	DESCENT GR. 5.24% (318 FT/NM)	MDA 460	THR ELEV 51
		ALS LENGTH 900 M		LDA 6568 FT	



CDFA 3.00' / 5.24%						
DME ROE	2	3	4	5	6	
DIST THR	1.4	2.4	3.4	4.4	5.4	
ALT	540	860	1180	1500	1820	

MISSED APPROACH
Climb on track 283 to 3000 ft.
When passing 700 ft
turn left inbound IAF
(ROE R-138 DME 7).



CATEGORY	HPMA
S-TACAN 29	460 - 1200 408 (500-1.2/1.9)
CIRCLING	1000 - 3.2 948 (1000-3.2)

HPMA TACAN X RWY 29

55°03.80'N
014°45.58'E
10-9

ROENNE (EKRN)

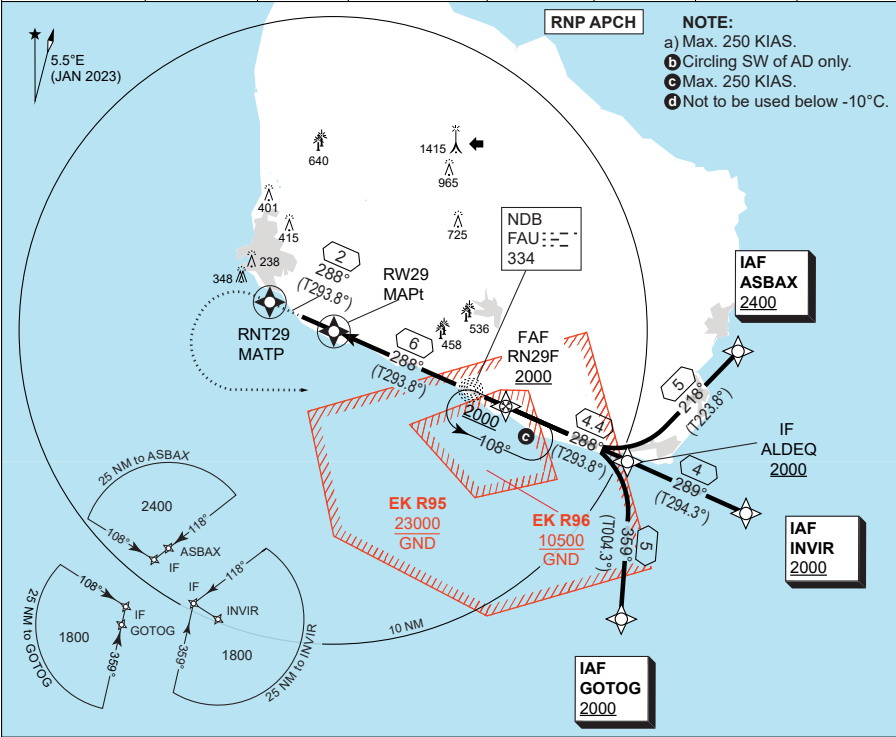
CHANGES: PAGE NR.

AIR COMMAND DENMARK - MILAIM 10 JUL 2025 - RDAF FLIP SUP.

MIPS
INSTRUMENT APPROACH CHART

RNP Z RWY 29
ROENNE (EKRN)

Table with 6 columns: EGNOS CHANNEL, APP COURSE, FAF ALT, Descent GR, DA, THR ELEV, ALS length, LDA. Values include 92778 / E29A, 288, 2000 FT, 3.00° (5.24%), See CAT, 51, 900, 6568 FT.



CDFA: 3.00° / 5.24% table with 6 columns (DIST THR, 2, 3, 4, 5, 6) and 2 rows (ALT, 740, 1050, 1370, 1690, 2000).

MISSED APPROACH: Climb straight ahead to RNT29, then turn left to FAU and hold at 2000 FT.

Diagram showing the missed approach path from MAPt RW29, turning left to FAU NDB and holding at 2000 FT.

THR ELEV 51, CAT I

Table with 5 columns: CATEGORY, A, B, C, D, E. Rows include LPV, LNAV/VNAV, LNAV, and CIRCLING with various altitude and distance values.

MIPS
INSTRUMENT APPROACH CHART

RNP Y RWY 29
ROENNE (EKRN)

Table with 7 columns: EGNOS CHANNEL, APP COURSE, FAF ALT, Descent GR, DA, THR ELEV, ALS length, LDA. Values include 92778 / E29A, 288, 2000 FT, 3.00° (5.24%), See CAT, 51, 900, 6568 FT.

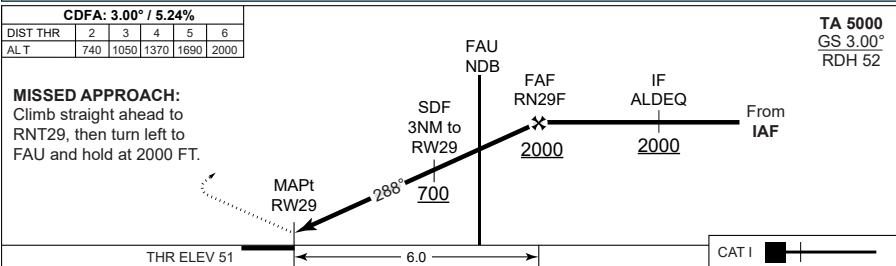
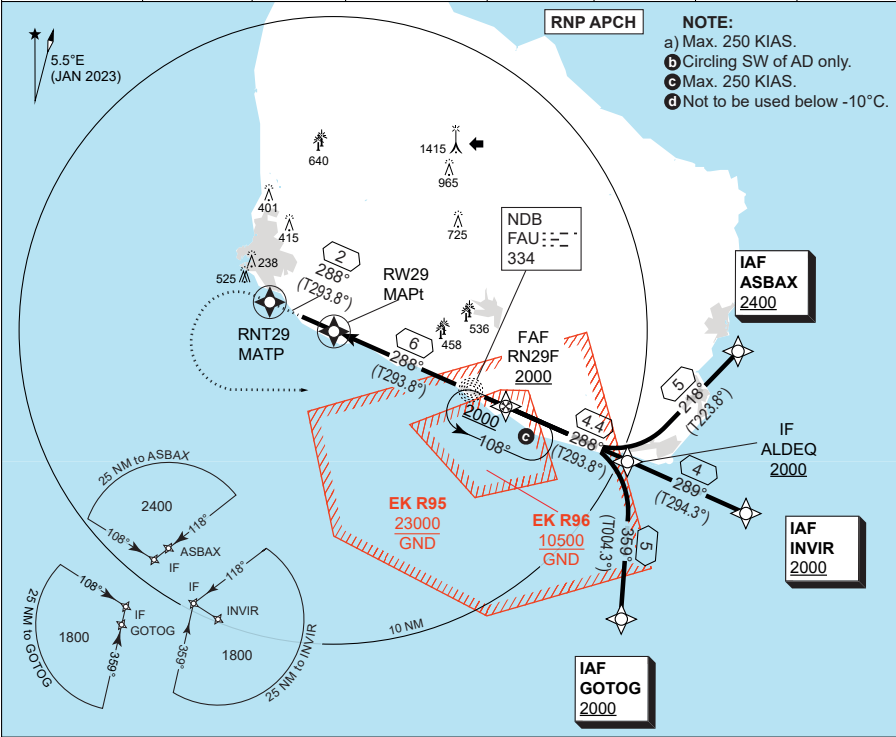
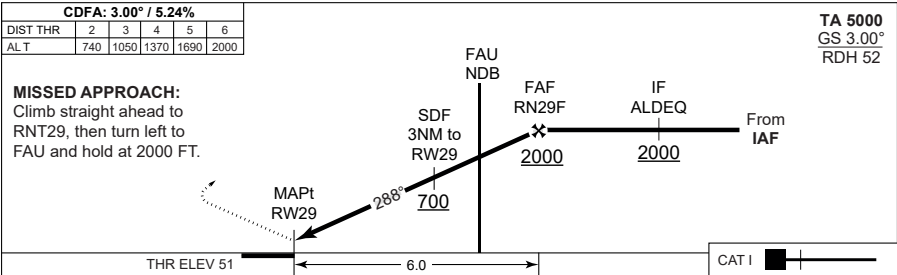
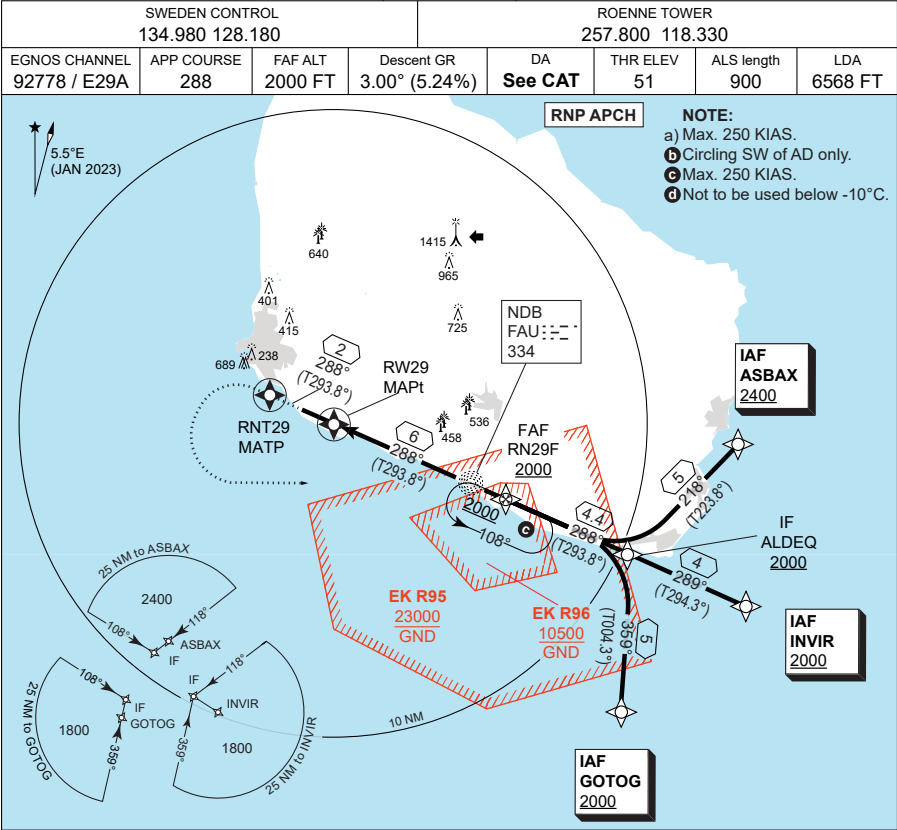


Table with 6 columns: CATEGORY, A, B, C, D, E. Rows include LPV 2.5%, LPV 3.3%, LNAV/VNAV, LNAV, and CIRCLING with associated altitudes and distances.

RNP Y RWY 29
55°03.80'N
014°45.58'E
10-10
ROENNE (EKRN)

MIPS
INSTRUMENT APPROACH CHART

RNP X RWY 29
ROENNE (EKRN)



CATEGORY	A	B	C	D	E
LPV	471 - 1200 420 (500-1.2/1.9)	481 - 1300 430 (500-1.3/2.0)	490 - 1300 439 (500-1.3/2.0)	500 - 1400 449 (500-1.4/2.1)	521 - 1500 470 (500-1.5/2.2)
LNAV/VNAV	430 - 1000 379 (400-1.0/1.7)	440 - 1100 389 (400-1.1/1.8)	470 - 1200 419 (500-1.2/1.9)	490 - 1300 439 (500-1.3/2.0)	520 - 1500 469 (500-1.5/2.2)
LNAV	540 - 1500 488 (500-1.5/2.3)				570 - 1600 518 (600-1.6/2.4)
CIRCLING	540 - 1.5 488 (500-1.5)	830 - 1.6 778 (800-1.6)	920 - 2.4 868 (900-2.4)	920 - 3.6 868 (900-3.6)	1020 - 3.6 968 (1000-3.6)

EKRN RNP RWY 29 waypoint coordinates:

RWY 29 from GOTOG (Initial LEFT) APPROACH RNP

		CODING	DISPLAY
GOTOG	IAF	54 54 24.69N 015 02 19.26E	54 54.412N 015 02.321E
ALDEQ	IF	54 59 23.86N 015 02 58.40E	54 59.398N 015 02.973E
RN29F	FAF	55 01 09.98N 014 55 58.76E	55 01.166N 014 55.979E
RW29	MAPt	55 03 34.73N 014 46 26.05E	55 03.579N 014 46.434E
RNT29	MATP	55 04 24.04N 014 43 11.23E	55 04.401N 014 43.187E
FAU	MAHF	55 01 41.49N 014 54 01.79E	55 01.692N 014 54.030E

RWY 29 from INVIR (Initial STRAIGHT) APPROACH RNP

		CODING	DISPLAY
INVIR	IAF	54 57 46.11N 015 09 15.45E	54 57.769N 015 09.258E
ALDEQ	IF	54 59 23.86N 015 02 58.40E	54 59.398N 015 02.973E
RN29F	FAF	55 01 09.98N 014 55 58.76E	55 01.166N 014 55.979E
RW29	MAPt	55 03 34.73N 014 46 26.05E	55 03.579N 014 46.434E
RNT29	MATP	55 04 24.04N 014 43 11.23E	55 04.401N 014 43.187E
FAU	MAHF	55 01 41.49N 014 54 01.79E	55 01.692N 014 54.030E

RWY 29 from ASBAX (Initial RIGHT) APPROACH RNP

		CODING	DISPLAY
ASBAX	IAF	55 02 58.91N 015 08 57.25E	55 02.982N 015 08.058E
ALDEQ	IF	54 59 23.86N 015 02 58.40E	54 59.398N 015 02.973E
RN29F	FAF	55 01 09.98N 014 55 58.76E	55 01.166N 014 55.979E
RW29	MAPt	55 03 34.73N 014 46 26.05E	55 03.579N 014 46.434E
RNT29	MATP	55 04 24.04N 014 43 11.23E	55 04.401N 014 43.187E
FAU	MAHF	55 01 41.49N 014 54 01.79E	55 01.692N 014 54.030E

Threshold coordinates RWY 29

	CODING	DISPLAY
RWY 29	55 03 34.73N 014 46 26.05E	55 03.579N 014 46.434E