

General Information

Errors and omissions

We ask you to kindly report any errors or omissions in the RDAF FLIP or the CENOR FLIP to:

Air Command Denmark

MIL AIM

TLF.: 728 11516

Email: FKO-KTP-F-AIM@MIL.DK

Approach lights

See Miscellaneous page 20-17.

List of symbols

In the RDAF FLIP the same symbology are used as in the CENOR FLIP (kindly see CENOR FLIP preface pages). A few exceptions are listed on page 0-5. All positions are indicated in WGS-84.

NOTAMs:

Civil Danish and some european NOTAMs:

<http://briefing.naviair.dk/>

Civil Greenlandic NOTAMs: <http://www.naviair.gl/>

BGTL: Only via DINS Notam Service.

BGMV og BGNO: NOTAMs are not issued. Operational conditions are checked in accordance with Air Transport Wing procedures.

DINS Notam Service (worldwide):

<https://www.notams.faa.gov/>

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LEGEND

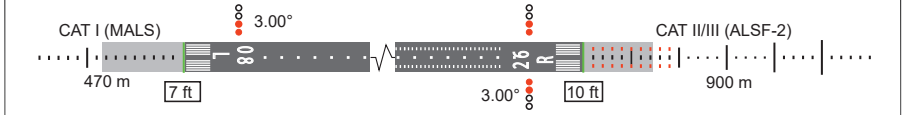
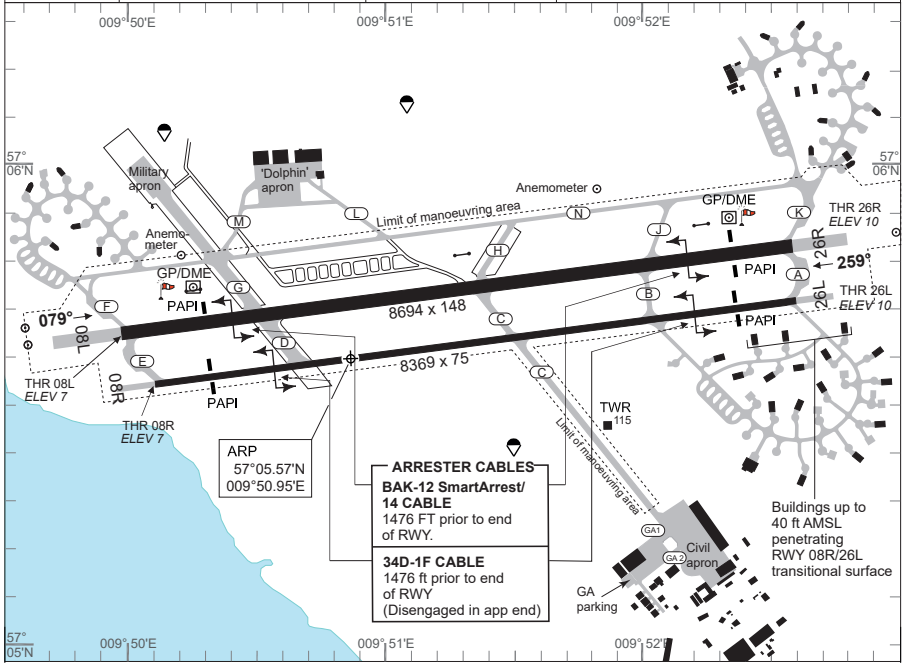
RDAF FLIP uses the same symbology as CENOR FLIP (Please see CENOR FLIP Preface) with the following exceptions:

 	<p>Wind turbine - unlit Group of wind turbines - unlit</p>	} Replaces Δ \blacktriangle \triangleleft \blacktriangleright where obstacles are in fact wind turbines.
 	<p>Wind turbine - lit Group of wind turbines - lit</p>	
	<p>Line of wind turbines - lit</p>	
	<p>Wind farm - lit</p>	
	<p>Exceptionally high obstacle - lit</p>	} Replaces \triangleleft where an obstacle is 1000 ft AMSL or more)
	<p>Highest obstacle within the Plan View Area</p>	
	<p>Para drop zone</p>	
	<p>Cities, towns, villages</p>	
	<p>Air traffic services Reporting Office (ARO)</p>	

AERODROME CHART

AALBORG (EKYT)

AALBORG ATIS 120.480	AALBORG TOWER 353.525 118.305	AALBORG APPROACH 362.450 123.980	AD Admin and FPL: Email:	+45 728 46310 woc@atwaal.dk
AD Elev 10	ARP 57°05.57'N 009°50.95'E	VAR 4.0°E (JAN 2023)		



RWY	PCN	DECLARED DISTANCES					THR ELEV	RWY LIGHTING					THR PSN	
		PSN	TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE		END
08L	66	E/F	8694	8694	9422	8694	7	LIH	3.00°		LIH	LIH	LIH	57°05.623'N 009°50.005'E
		D/G	6791	6791	7519									
		C/H	4002	4002	4730									
26R	F/D/W/T	A/K	8694	8694	9589	8694	10	LIH	3.00°	LIH	LIH	LIH	LIH	57°05.790'N 009°52.611'E
		B/J	6791	6791	7686									
		C/H	4691	4691	5586									
08R	52	E	8369	8369	8861	8369	7	LIL	2.75°		LIL	LIL	57°05.515'N 009°50.128'E	
26L	F/D/X/U	A	8369	8369	8861	8369	10	LIL	2.75°		LIL	LIL	57°05.675'N 009°52.634'E	

Start-up clearance required for all aircraft, also for engine ground run.

Use of TWY N is only permitted for aircraft size up to and including C-130. Larger size aircraft will need specific clearance from Current OPS before using TWY N.

Standard Instrument Departures (SID) have not been established.

Omnidirectional departures RWY 08L/R and 26R/L: Climb straight ahead to at least 600 FT MSL before turn is commenced.

MIPS		CIRCLING MINIMA (NORTH of aerodrome only)				
A	B	C	D	E		
510	510	690	740	840		
-1.5 500 (500-1.5)	-1.6 500 (500-1.6)	-2.4 680 (700-2.4)	-3.6 730 (800-3.6)	-3.6 830 (900-3.6)		

AERODROME CHART

AALBORG (EKYT)

CHANGES: OBST WITHDRAWN.

AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

MIPS

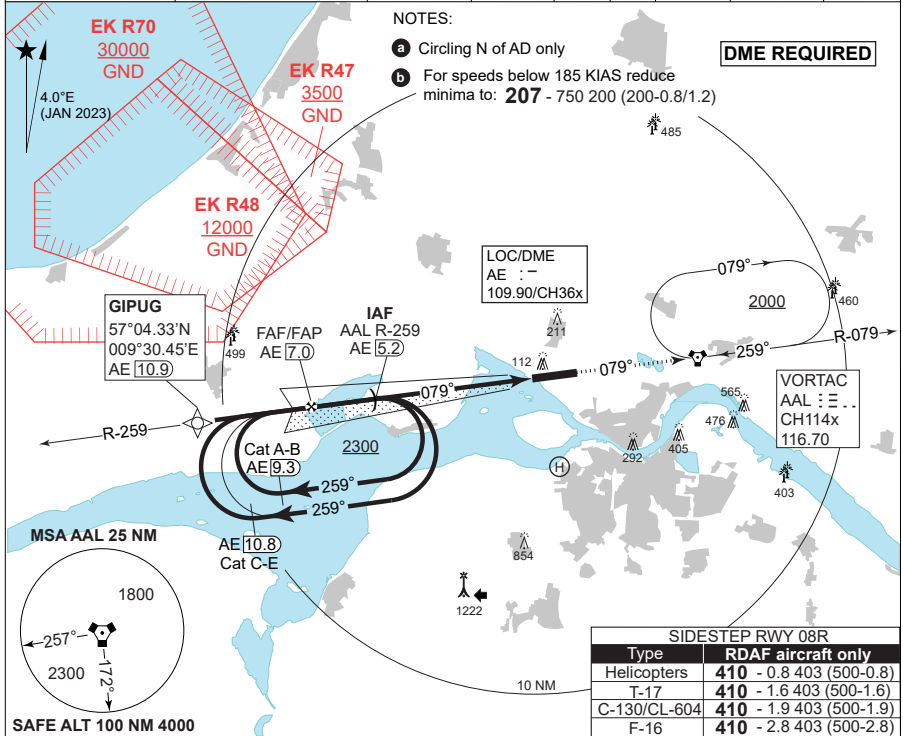
INSTRUMENT APPROACH CHART

ILS or LOC RWY 08L

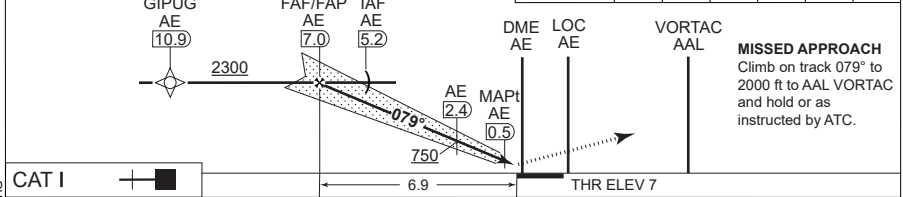
AALBORG (EKYT)

AD ELEV 10

COPENHAGEN CONTROL 242.650 124.555		AALBORG ATIS 120.480	AALBORG APPROACH 362.450 123.980		AALBORG TOWER 353.525 118.305	
LOC/DME AE 109.90/CH 36x	VORTAC AAL CH 114x/116.700	APP COURSE 079°	FAF ALT 2300 FT	GS 3.00°	DA 207	THR ELEV 07
			ALS LENGTH 470 M	LDA 8694 FT		



TA 3000	LOC ONLY: CDFA 3.00° / 5.24%						
GS 3.00°	DME AE	6	5	4	3	2	1
RDH 54	DIST THR	5.9	4.9	3.9	2.9	1.9	0.9
	ALT	1930	1610	1290	970	650	330



CATEGORY	A	B	C	D	E
S-ILS CAT I 08L	207 - 750 200 (200-0.8/1.2)				282 -900 275 (300-0.9/1.3) b
S-LOC 08L	300 - 900 293 (300-0.9/1.4)				310 -1000 303 (400-1.0/1.4)
CIRCLING a	510 -1.5 500 (500-1.5)	510 -1.6 500 (500-1.6)	690 -2.4 680 (700-2.4)	740 -3.6 730 (800-3.6)	840 -3.6 830 (900-3.6)

ILS or LOC RWY 08L

57°05.57'N
009°50.95'E

AALBORG (EKYT)

CHANGES: ATC VHF FREQ CHG

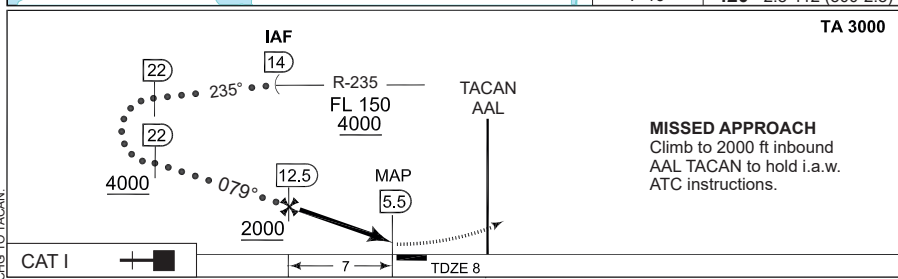
AIP COMMAND DENMARK - MIL AIP 02 NOV 2023

TERPS INSTRUMENT APPROACH CHART

AD ELEV 10

HI-TACAN RWY 08L AALBORG (EKYT)

COPENHAGEN CONTROL 242.650 124.555	AALBORG ATIS 120.480	AALBORG APPROACH 362.450 123.980	AALBORG TOWER 353.525 118.305
TACAN AAL CH 114x	APP COURSE 079°	FAF ALT 2000 FT	DESCENT GR 277 FT/NM
		MDA 420	TDZE 8
		ALS length 470 M	LDA 8707 FT



TERPS	CATEGORY	C	D	E
S-TACAN 08L		420 -2000 412 (500-2.0)		420 -2400 412 (500-2.4)
CIRCLING ●		580 -2400 570 (600-2.4)	580 -2800 570 (600-2.8)	640 -3600 630 (700-3.6)

HI-TACAN RWY 08L

57°05.57'N
009°50.95'E

AALBORG (EKYT)

AIR COMMAND DENMARK - MIL AIN 28 DEC 2023

MIPS

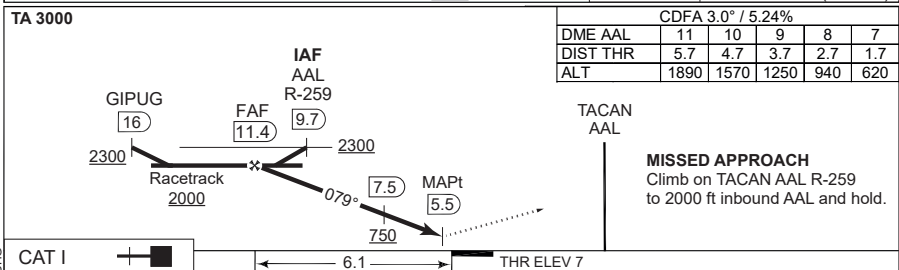
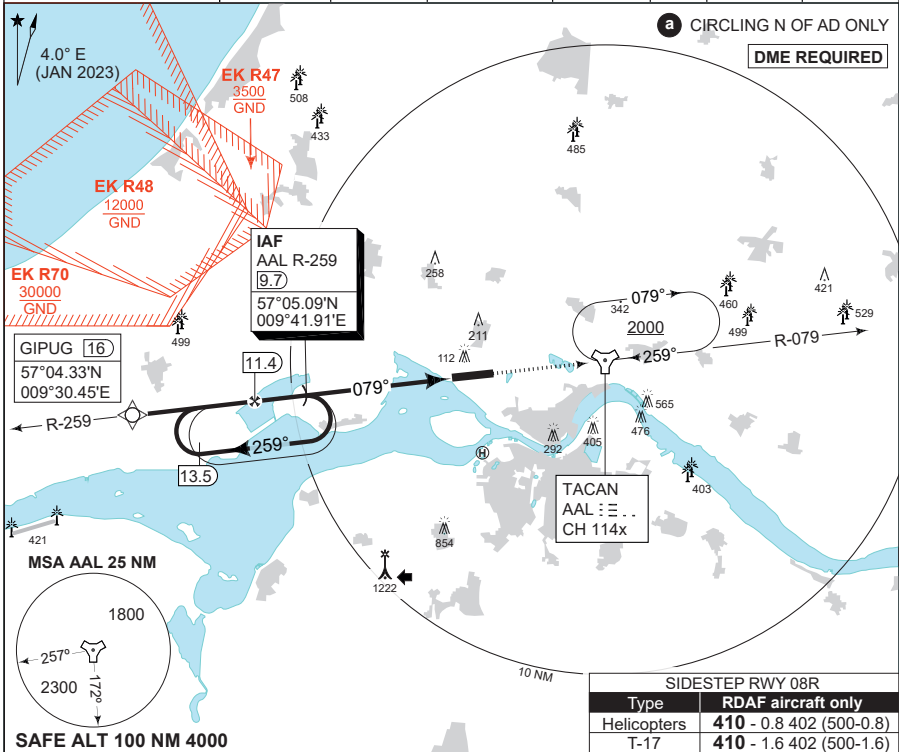
INSTRUMENT APPROACH CHART

TACAN RWY 08L (CAT A-B)

AALBORG (EKYT)

AD ELEV 10

COPENHAGEN CONTROL 242.650 124.555	AALBORG ATIS 120.480	AALBORG APPROACH 362.450 123.980	AALBORG TOWER 353.525 118.305
TACAN AAL CH 114x	APP COURSE 079°	FAF ALT 2000 FT	DESCENT GR 318 FT/NM
		MDA 340	THR 7
		ALS Length 470 M	LDA 8694 FT



CAT I	6.1	THR ELEV 7
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CATEGORY	A	B
S-TACAN 08L	340 -1100 333 (400-1.1/1.5)	
CIRCLING a	510 -1.5 500 (500-1.5)	510 -1.6 500 (500-1.6)

TACAN RWY 08L (CAT A-B) 57°05.57'N 009°50.95'E AALBORG (EKYT)

CHANGES:ATC VHF FREQ CHG

AIR COMMAND DENMARK - MIL AIR 02 NOV 2023

MIPS

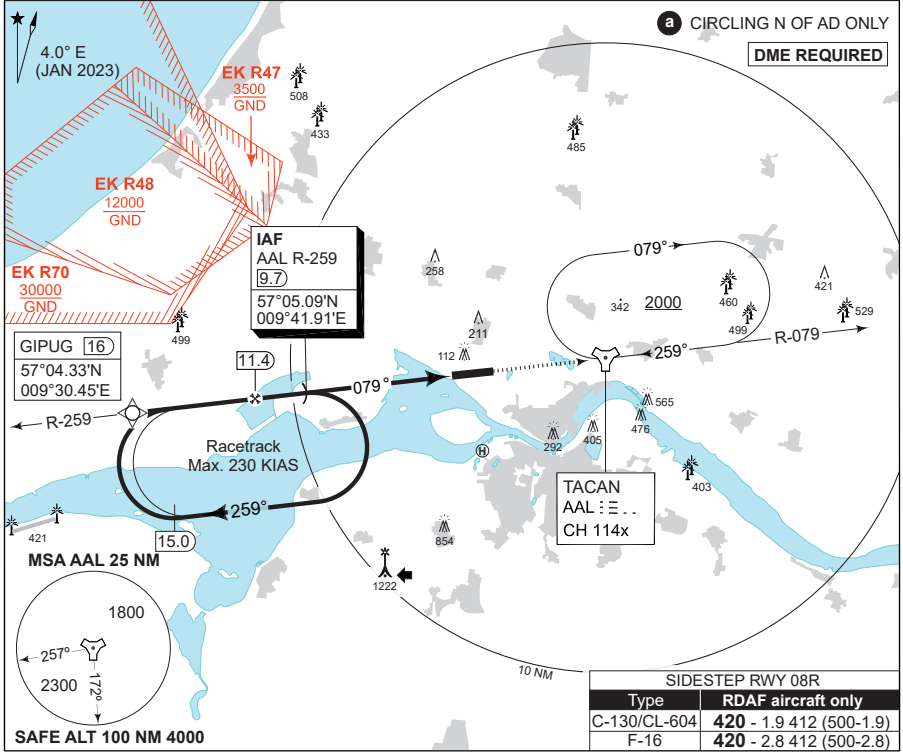
TACAN RWY 08L (CAT C-E)

INSTRUMENT APPROACH CHART

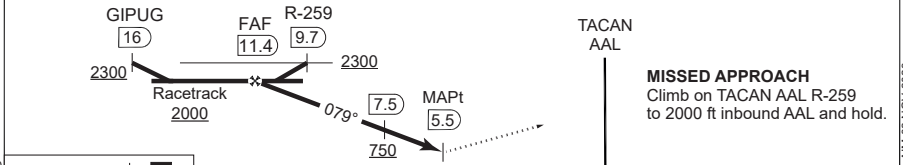
AD ELEV 10

AALBORG (EKYT)

COPENHAGEN CONTROL 242.650 124.555	AALBORG ATIS 120.480	AALBORG APPROACH 362.450 123.980	AALBORG TOWER 353.525 118.305
TACAN AAL CH 114x	APP COURSE 079°	FAF ALT 2000 FT	DESCENT GR 318 FT/NM
		MDA 340	THR 7
		ALS length 470 M	LDA 8694 FT



TA 3000	CDFA 3.0° / 5.24%					
	DME AAL	11	10	9	8	7
	DIST THR	5.7	4.7	3.7	2.7	1.7
	ALT	1890	1570	1250	940	620



CAT I	6.1	THR ELEV 7
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CATEGORY	C	D	E
S-TACAN 08L	340 -1100 333 (400-1.1/1.5)		
CIRCLING a	690 -2.4 680 (700-2.4)	740 -3.6 730 (800-3.6)	840 -3.6 830 (900-3.6)

TACAN RWY 08L (CAT C-E) 57°05.57'N 009°50.95'E **AALBORG (EKYT)**

CHANGES: ATC VHF FREQ CHG

AIR COMMAND DENMARK - MIL AIR 02 NOV 2023

MIPS

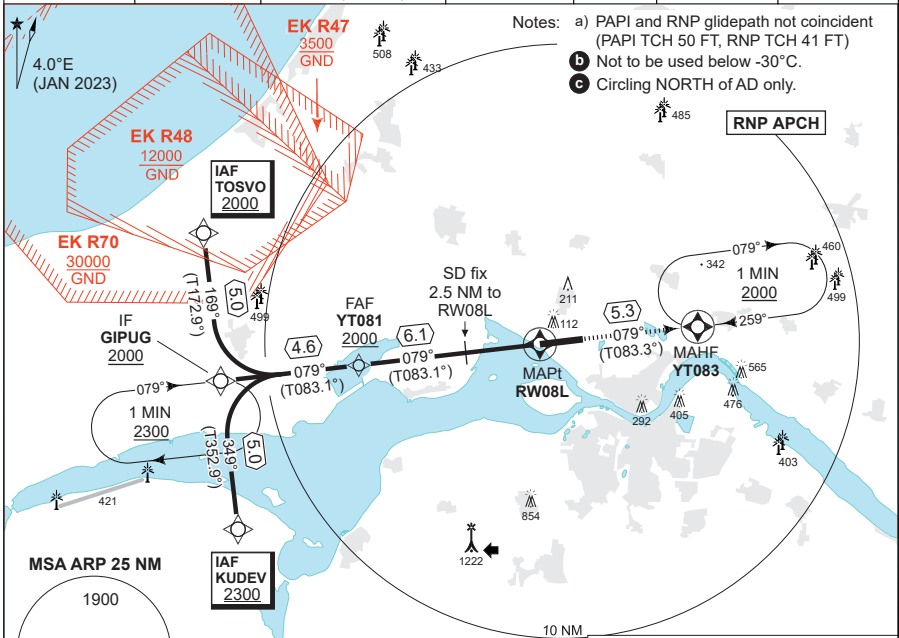
INSTRUMENT APPROACH CHART

AD ELEV 10

RNP RWY 08L

AALBORG (EKYT)

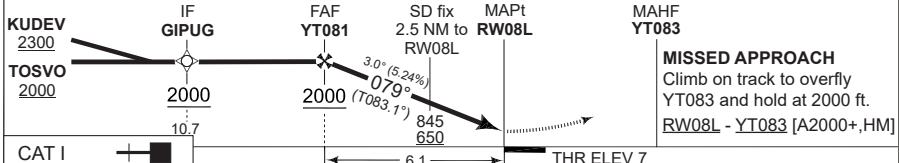
COPENHAGEN CONTROL 242.650 124.555		AALBORG ATIS 120.480		AALBORG APPROACH 362.450 123.980		AALBORG TOWER 353.525 118.305	
APP COURSE 079°	FAF ALT 2000 FT	Descent GR 3.0° (5.24%)		MINIMA See CAT	THR 7	ALS length 470 M	LDA 8694 FT



Notes: a) PAPI and RNP glidepath not coincident (PAPI TCH 50 FT, RNP TCH 41 FT)
 b) Not to be used below -30°C.
 c) Circling NORTH of AD only.

Type	RDAF aircraft only
Helicopters	410 - 0.8 402 (500-0.8)
T-17	410 - 1.6 402 (500-1.6)
C-130/CL-604	410 - 1.9 402 (500-1.9)
F-16	410 - 2.8 402 (500-2.8)

TA 3000	CDFA 3.0° / 5.24%						
GS 3.0°	DIST TO RW08L	6	5	4	3	2	1
TCH 41	NOM. ALTITUDE	1960	1650	1330	1010	690	370



CATEGORY	A	B	C	D	E
LNAV/VNAV (DA) b	257 -800 250 (300-0.8/1.3)			273 - 900 266 (300-0.9/1.3)	291 - 900 284 (300-0.9/1.4)
LNAV (MDA)	310 -1000 303 (400-1.0/1.4)		330 -1100 323 (400-1.1/1.5)	350 -1200 343 (400-1.2/1.6)	360 -1200 353 (400-1.2/1.6)
CIRCLING c	510 -1.5 500 (500-1.5)	510 -1.6 500 (500-1.6)	690 -2.4 680 (700-2.4)	740 -3.6 730 (800-3.6)	840 -3.6 830 (900-3.6)

RNP RWY 08L

57°05.57'N
009°50.95'E

AALBORG (EKYT)

CHANGES: ATC VHF FREQ CHG

MIPS

AIR COMMAND DENMARK - MIL AIR 02 NOV 2023

EKYT RNP RWY 08L waypoint coordinates:

RWY 08L from TOSVO (Initial LEFT) APPROACH RNP

		CODING				DISPLAY	
TOSVO	IAF	57 09 16.80N	009 29 19.21E	57 09.280N	009 29.320E		
GIPUG	IF	57 04 20.00N	009 30 27.00E	57 04.333N	009 30.450E		
YT081	FAF	57 04 53.88N	009 38 54.12E	57 04.898N	009 38.902E		
RW08L	MAPt	57 05 37.37N	009 50 00.30E	57 05.623N	009 50.005E		
YT083	MAHF	57 06 13.39N	009 59 44.08E	57 06.223N	009 59.735E		

RWY 08L from KUDEV (Initial RIGHT) APPROACH RNP

		CODING				DISPLAY	
KUDEV	IAF	56 59 23.12N	009 31 34.48E	56 59.385N	009 31.575E		
GIPUG	IF	57 04 20.00N	009 30 27.00E	57 04.333N	009 30.450E		
YT081	FAF	57 04 53.88N	009 38 54.12E	57 04.898N	009 38.902E		
RW08L	MAPt	57 05 37.37N	009 50 00.30E	57 05.623N	009 50.005E		
YT083	MAHF	57 06 13.39N	009 59 44.08E	57 06.223N	009 59.735E		

Threshold coordinates RWY 08L

		CODING				DISPLAY	
RWY 08L		57 05 37.37N	009 50 00.30E	57 05.623N	009 50.005E		

CHANGES: CHART RENAMED RNP.

AIR COMMAND DENMARK - MIL AIM 26 JAN 2023

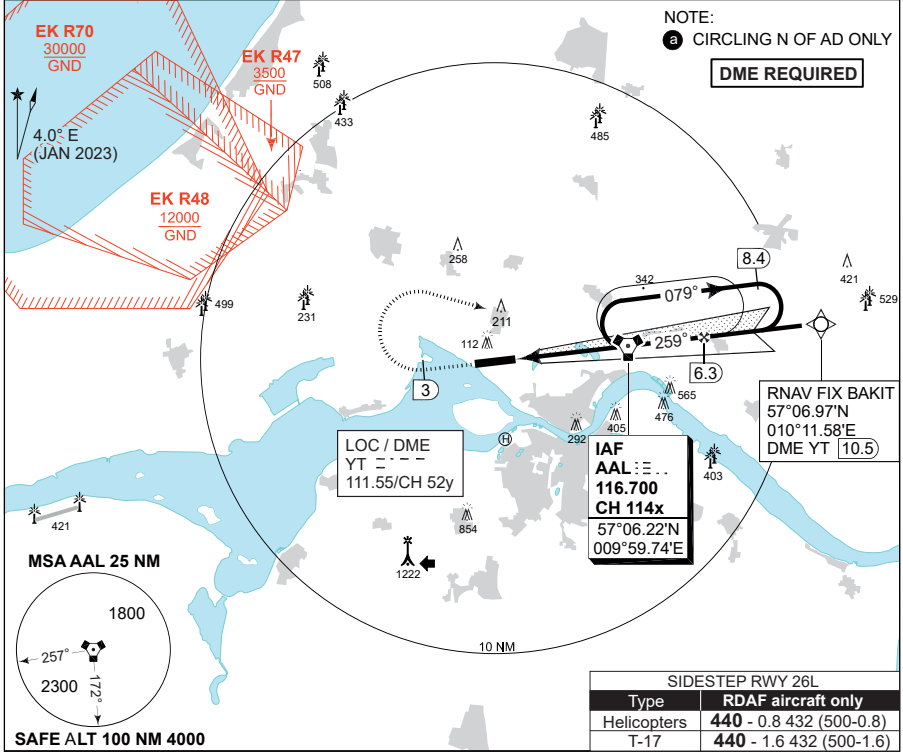
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 10

ILS or LOC RWY 26R (CAT A-B)
AALBORG (EKYT)

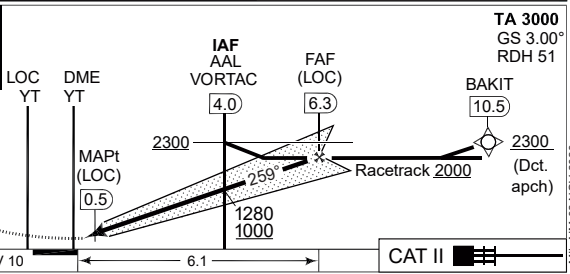
COPENHAGEN CONTROL 242.650 124.555	AALBORG ATIS 120.480	AALBORG APPROACH 362.450 123.980	AALBORG TOWER 353.525 118.305
LOC/DME YT 111.55/CH 52y	VORTAC AAL CH 114x/116.700	APP COURSE 259°	GS INTCP ALT 2000 FT
GS 3.00°	DA 210	THR 10	ALS length 900 M
		LDA 8694 FT	



LOC: CDFA 3.00° / 5.2%

DME YT	2	3	4	5	6
DIST THR	1.9	2.9	3.9	4.9	5.9
ALT	650	970	1280	1600	1920

MISSED APPROACH
Climb on track 259° to YT 3 DME, then turn right inbound VORTAC AAL climbing to 3000 ft and hold



CATEGORY	A	B
S-ILS CAT I	210 - 550 200 (200-0.8/1.2)	
S-ILS CAT II	RA 101 (DA 110) - 350 100	
S-LOC 26R	370 - 900 360 (400-0.9/1.5)	
CIRCLING a	510 - 1.5 500 (500-1.5)	510 - 1.6 500 (500-1.6)

ILS or LOC RWY 26R (CAT A-B) AALBORG (EKYT)

57°05.57'N
009°50.95'E
1-8

CHANGES: ATC VHF FREQ CHG

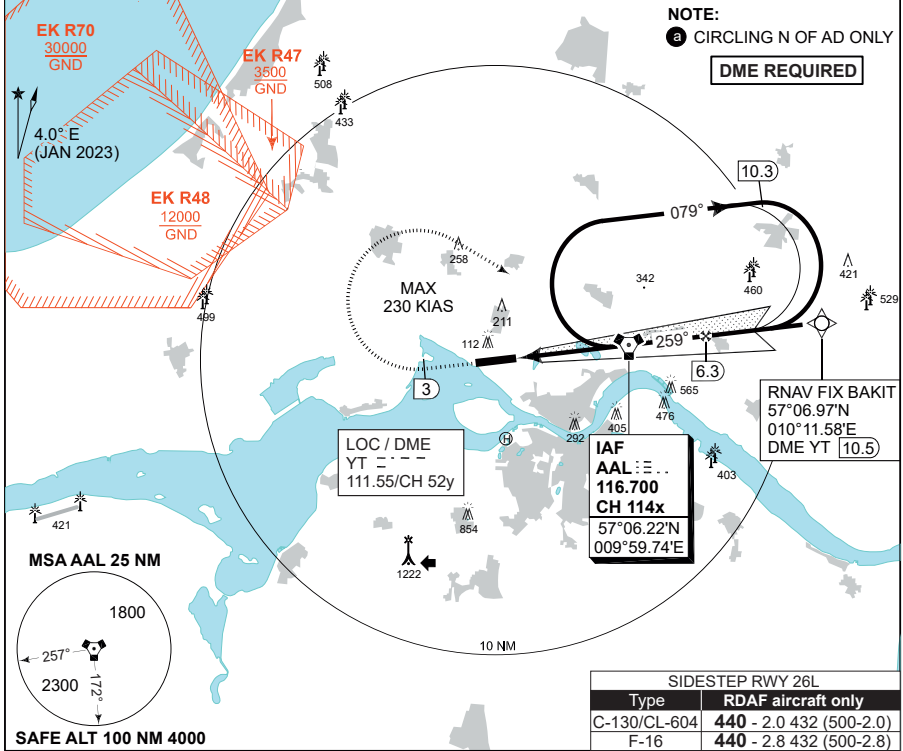
AIR COMMAND DENMARK - MIL AIM 02 NOV 2023

MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 26R (CAT C-E)
AALBORG (EKYT)

AD ELEV 10

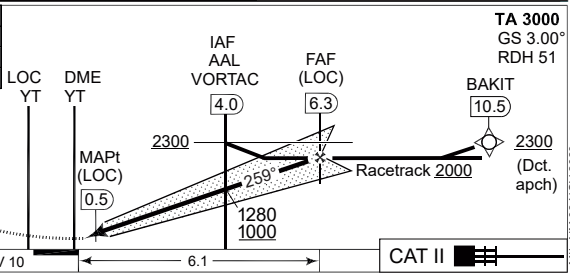
COPENHAGEN CONTROL 242.650 124.555		AALBORG ATIS 120.480	AALBORG APPROACH 362.450 123.980		AALBORG TOWER 353.525 118.305		
LOC/DME YT 111.55/CH 52y		VORTAC AAL CH 114x/116.700	APP COURSE 259°	GS INTCP ALT 2000 FT	GS 3.00°	DA 210	THR 10 ALS length 900 M LDA 8694 FT



LOC: CDFA 3.00° / 5.2%

DME YT	2	3	4	5	6
DIST THR	1.9	2.9	3.9	4.9	5.9
ALT	650	970	1280	1600	1920

MISSED APPROACH
Climb on track 259° to YT 3 DME, then turn right (max. 230 KIAS in the turn) inbound VORTAC AAL climbing to 3000 ft and hold.



CATEGORY	C	D	E
S-ILS CAT I	210 - 550 200 (200-0.8/1.2)		
S-ILS CAT II	RA 101 (DA 110) - 350 100		N/A
S-LOC 26R	370 - 900 360 (400-0.9/1.6)		
CIRCLING a	690 -2.4 680 (700-2.4)	740 -3.6 730 (800-3.6)	840 -3.6 830 (900-3.6)

ILS or LOC RWY 26R (CAT C-E) 57°05.57'N 009°50.95'E
AALBORG (EKYT)

CHANGES: ATC VHF FREQ CHG

AIR COMMAND DENMARK - MIL AIM 02 NOV 2023

TERPS INSTRUMENT APPROACH CHART

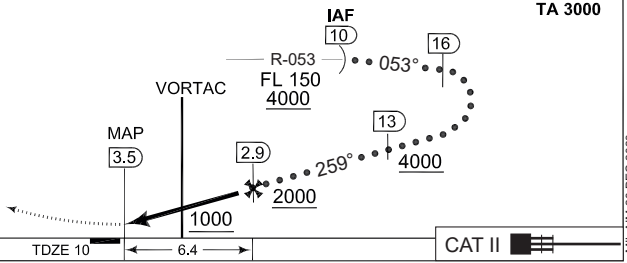
HI-VORTAC RWY 26R AALBORG (EKYT)

AD ELEV 10

COPENHAGEN CONTROL 242.650 124.555		AALBORG ATIS 120.480		AALBORG APPROACH 362.450 123.980		AALBORG TOWER 353.525 118.305	
VORTAC AAL CH 114x	APP COURSE 259°	FAF ALT 2000 FT	DESCENT GR 260 FT/NM	MDA 440	TDZE 10	ALS length 900 M	LDA 8707 FT



MISSED APPROACH
Climb to 2000 ft on 259°
right turn to hold on AAL
VORTAC i.a.w. ATC instruction.



TERPS CATEGORY	C		D		E	
	Altitude	Distance	Altitude	Distance	Altitude	Distance
S-VORTAC 26R	440	-1200 430 (500-1.2/2.0)	440	-1600 430 (500-1.6/2.4)		
CIRCLING	580	-2400 570 (600-2.4)	580	-2800 570 (600-2.8)	640	-3600 630 (700-3.6)

HI-VORTAC RWY 26R

57°05.57'N
009°50.95'E

AALBORG (EKYT)

CHANGES: SKR SYMBOL CHG TO TACAN

AIR COMMAND DENMARK - MIL AIN 28 DEC 2023

MIPS
INSTRUMENT APPROACH CHART

VORTAC RWY 26R (CAT A-B)
AALBORG (EKYT)

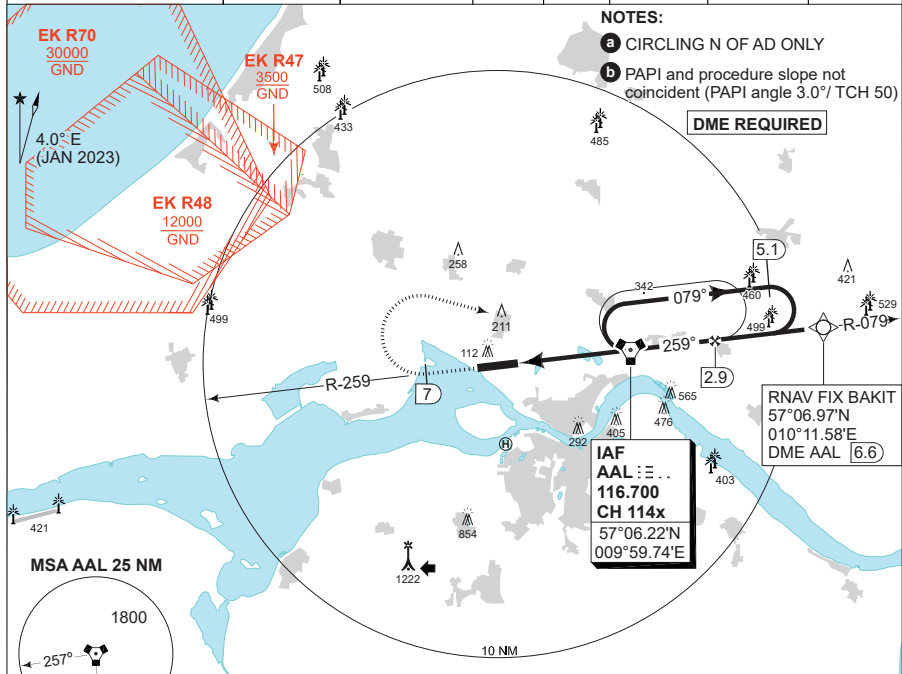
AD ELEV 10

COPENHAGEN CONTROL 242.650 124.555	AALBORG ATIS 120.480	AALBORG APPROACH 362.450 123.980	AALBORG TOWER 353.525 118.305
VORTAC AAL CH 114x/116.700	APP COURSE 259°	FAF ALT 2000 FT	GS 2.75°
		MDA 420	THR ELEV 10
		ALS length 900 M	LDA 8694 FT

NOTES:

- a** CIRCLING N OF AD ONLY
- b** PAPI and procedure slope not coincident (PAPI angle 3.0°/ TCH 50)

DME REQUIRED

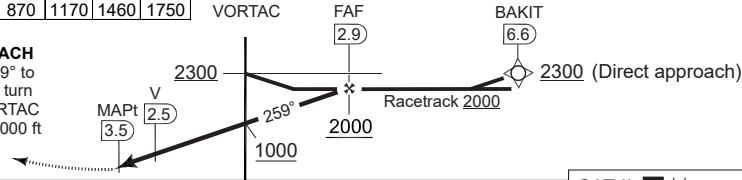


SIDESTEP RWY 26L	
Type	RDAF aircraft only
Helicopters	470 - 0.8 462 (500-0.8)
T-17	470 - 1.6 462 (500-1.6)

CDFA 2.75° / 4.8% b					
DME AAL	2	1	0	1	2
DIST THR	1.8	2.8	3.8	4.8	5.8
ALT	580	870	1170	1460	1750

TA 3000

MISSED APPROACH
Climb on track 259° to AAL 7 DME, then turn right inbound VORTAC AAL climbing to 3000 ft and hold



THR ELEV 10 6.7 CAT II

CATEGORY	A	B
VORTAC 26R	420 - 1200 410 (500-1.2/1.5)	
CIRCLING a	510 -1.5 500 (500-1.5)	510 -1.6 500 (500-1.6)

VORTAC RWY 26R (CAT A-B)

57°05.57'N
009°50.95'E

AALBORG (EKYT)

CHANGES: ATC VHF FREQ CHG.

MIPS

AIR COMMAND DENMARK - MIL AIM 02 NOV 2023

MIPS INSTRUMENT APPROACH CHART

AD ELEV 10

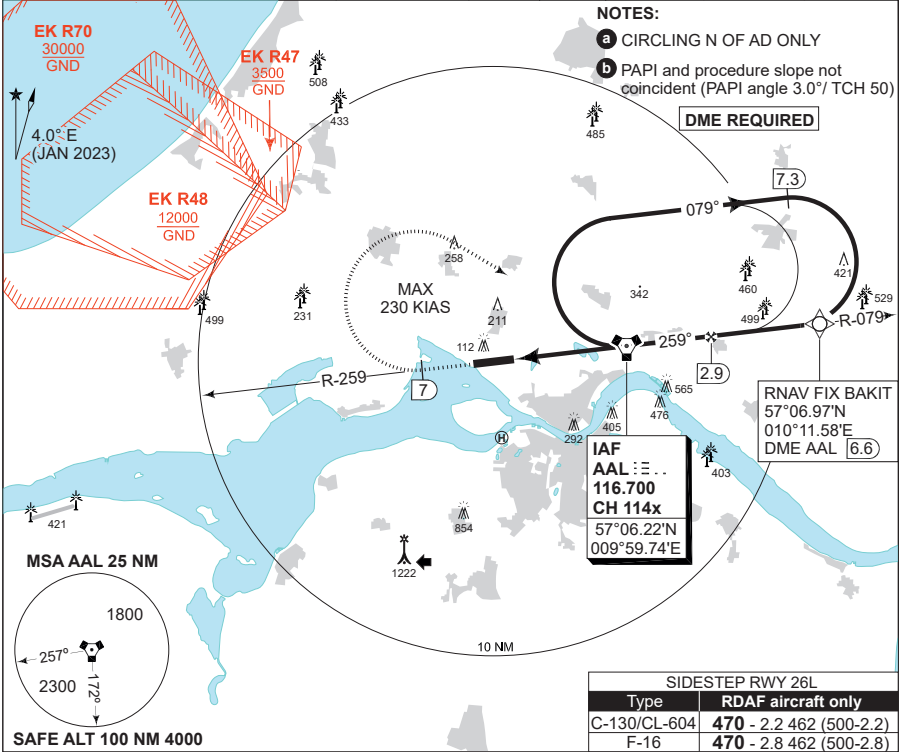
**VORTAC RWY 26R (CAT C-E)
AALBORG (EKYT)**

COPENHAGEN CONTROL 242.650 124.555	AALBORG ATIS 120.480	AALBORG APPROACH 362.450 123.980	AALBORG TOWER 353.525 118.305	
VORTAC AAL CH 114x/116.700	APP COURSE 259°	FAF ALT 2000 FT	GS 2.75°	MDA 420
		THR ELEV 10	ALS length 900 M	LDA 8694 FT

NOTES:

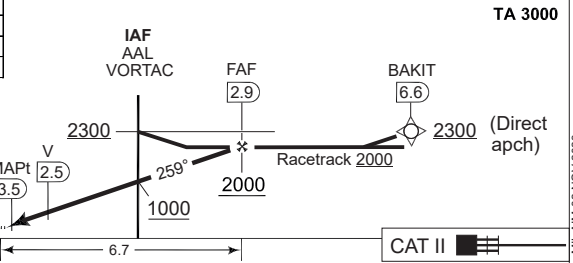
- a** CIRCLING N OF AD ONLY
- b** PAPI and procedure slope not coincident (PAPI angle 3.0°/ TCH 50)

DME REQUIRED



CDFA 2.75° / 4.8% b					
DME AAL	2	1	0	1	2
DIST THR	1.8	2.8	3.8	4.8	5.8
ALT	580	870	1170	1460	1750

MISSED APPROACH
Climb on track 259° to AAL 7 DME, then turn right (max. 230 KIAS in the turn) inbound VORTAC AAL climbing to 3000 ft and hold



CATEGORY	C	D	E
VORTAC 26R	420 -1200 410 (500-1.2/1.9)		
CIRCLING a	690 -2.4 680 (700-2.4)	740 -3.6 730 (800-3.6)	840 -3.6 830 (900-3.6)

VORTAC RWY 26R (CAT C-E) 57°05.57'N 009°50.95'E
AALBORG (EKYT)

CHANGES: ATC VHF FREQ CHG.

AIR COMMAND DENMARK - MIL AIM 02 NOV 2023

MIPS

INSTRUMENT APPROACH CHART

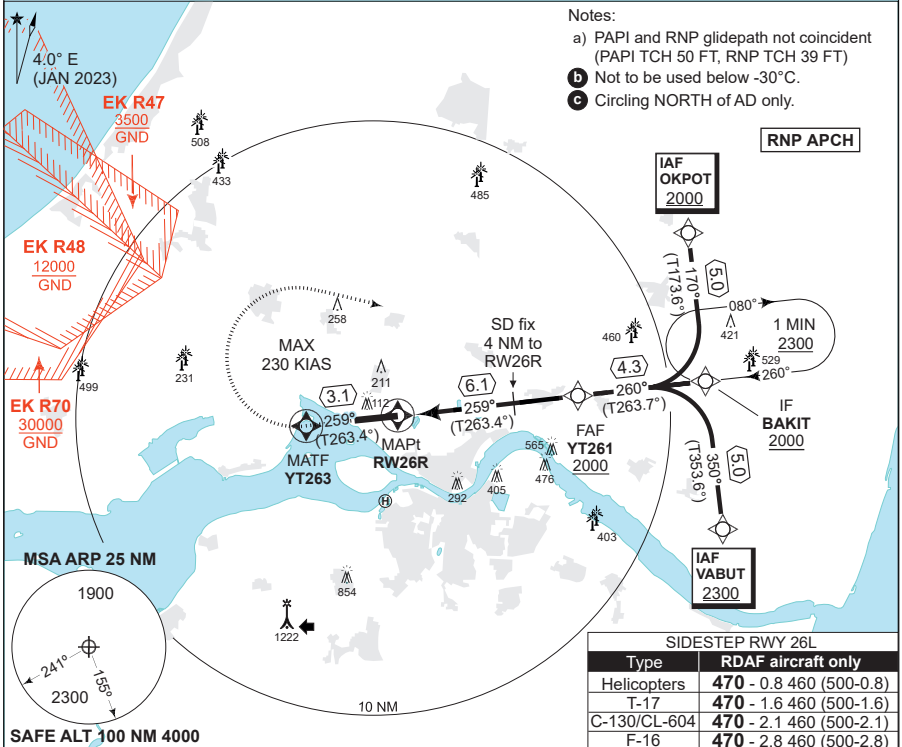
AD ELEV 10

**RNP RWY 26R
AALBORG (EKYT)**

COPENHAGEN CONTROL 242.650 124.555		AALBORG ATIS 120.480	AALBORG APPROACH 362.450 123.980		AALBORG TOWER 353.525 118.305	
APP COURSE 259°	FAF ALT 2000 FT	Descent GR 3.0° (5.24%)	MINIMA See CAT	THR 10	ALS length 900 M	LDA 8694 FT

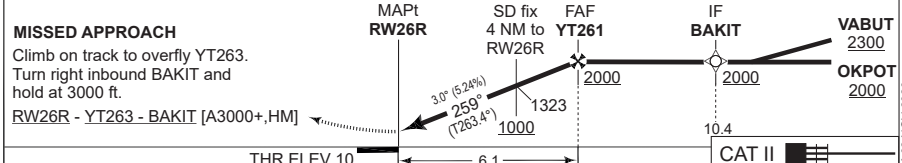
Notes:

- a) PAPI and RNP glidepath not coincident (PAPI TCH 50 FT, RNP TCH 39 FT)
- b) Not to be used below -30°C.
- c) Circling NORTH of AD only.



SIDESTEP RWY 26L	
Type	RDAF aircraft only
Helicopters	470 - 0.8 460 (500-0.8)
T-17	470 - 1.6 460 (500-1.6)
C-130/CL-604	470 - 2.1 460 (500-2.1)
F-16	470 - 2.8 460 (500-2.8)

CDFA 3.0° / 5.24%					
DIST TO RW26R	2	3	4	5	6
NOM. ALTITUDE	690	1010	1330	1650	1960



CATEGORY	A	B	C	D	E
LNAV/VNAV (DA) b	260 -600 250 (300-0.8/1.3)			261 - 600 251 (300-0.8/1.3)	279 -600 269 (300-0.8/1.3)
LNAV (MDA)	420 -1200 410 (500-1.2/1.9)				
CIRCLING c	510 -1.5 500 (500-1.5)	510 -1.6 500 (500-1.6)	690 -2.4 680 (700-2.4)	740 -3.6 730 (800-3.6)	840 -3.6 830 (900-3.6)

RNP RWY 26R

57°05.57'N
009°50.95'E

AALBORG (EKYT)

CHANGES: ATC VHF FREQ CHG.

MIPS

AIR COMMAND DENMARK - MIL AIR 02 NOV 2023

EKYT RNP RWY 26R waypoint coordinates:

RWY 26R from VABUT (Initial LEFT) APPROACH RNP

		CODING				DISPLAY	
VABUT	IAF	57 02 00.49N	010 12 35.88E	57 02.008N	010 12.598E		
BAKIT	IF	57 06 58.00N	010 11 35.00E	57 06.967N	010 11.583E		
YT261	FAF	57 06 29.64N	010 03 42.31E	57 06.494N	010 03.705E		
RW26R	MAPt	57 05 47.43N	009 52 36.63E	57 05.790N	009 52.611E		
YT263	MATF	57 05 25.57N	009 46 58.05E	57 05.426N	009 46.968E		
BAKIT	MAHF	57 06 58.00N	010 11 35.00E	57 06.967N	010 11.583E		

RWY 26R from OKPOT (Initial RIGHT) APPROACH RNP

		CODING				DISPLAY	
OKPOT	IAF	57 11 55.50N	010 10 33.85E	57 11.925N	010 10.564E		
BAKIT	IF	57 06 58.00N	010 11 35.00E	57 06.967N	010 11.583E		
YT261	FAF	57 06 29.64N	010 03 42.31E	57 06.494N	010 03.705E		
RW26R	MAPt	57 05 47.43N	009 52 36.63E	57 05.790N	009 52.611E		
YT263	MATF	57 05 25.57N	009 46 58.05E	57 05.426N	009 46.968E		
BAKIT	MAHF	57 06 58.00N	010 11 35.00E	57 06.967N	010 11.583E		

Threshold coordinates RWY 26R

		CODING				DISPLAY	
RWY 26R		57 05 47.43N	009 52 36.63E	57 05.790N	009 52.611E		

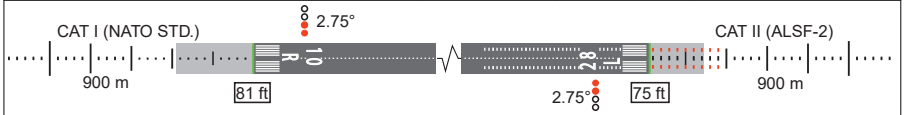
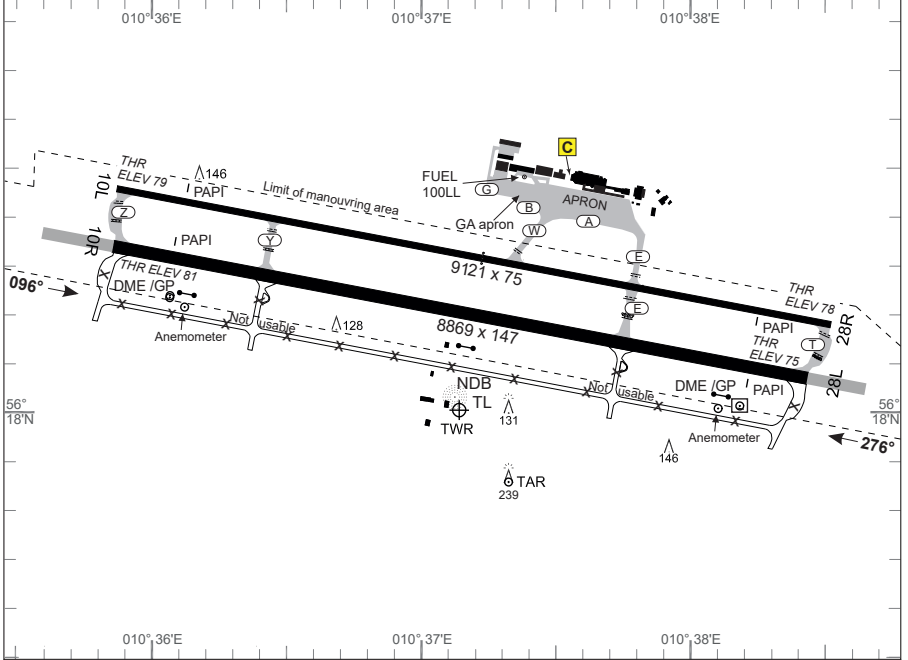
CHANGES: CHART RENAMED RNP

AIR COMMAND DENMARK - MIL AIM 26 JAN 2023

AERODROME CHART

AARHUS (EKAH)

AARHUS ATIS 121.155	AARHUS TOWER 118.530	AARHUS APPROACH 119.280	Airport Office: 131.555 Tel.: +45 87 75 70 50 All departing flights must file a complete or abbreviated flight plan to Aarhus ARO before taxiing.
AD Elev 82 ARP 56°18.00'N 010°37.14'E		VAR 4.0°E (APR 2022)	



RWY	PCN	DECLARED DISTANCES				THR ELEV	RWY LIGHTING					THR PSN	
		TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE		END
10R	76/R/B/X/U	8869	9597	9597	8869	81	LIH	2.75°		LIH	LIH	LIH	56°18.33'N 010°35.86'E
28L		8869	9807	9807	8869	75	LIH	2.75°	LIH	LIH	LIH	LIH	56°18.07'N 010°38.43'E
10L	120/F/B/WT	9121	9121	9121	9121	79	LIL	3.00°			LIL	LIL	56°18.45'N 010°35.87'E
28R		9121	9121	9121	9121	78	LIL	3.00°			LIL	LIL	56°18.18'N 010°38.52'E

Standard Instrument Departures (SID) have not been established.
Omnidirectional departures RWY 10R/L and 28L/R: Climb straight ahead to at least 700 FT MSL before turning.

MIPS		CIRCLING MINIMA				
A	B	C	D	E		
570 -1.5 488 (500-1.5)	680 -1.6 598 (600-1.6)	1060 -2.4 978 (1000-2.4)	1180 -3.6 1098 (1100-3.6)	1180 -3.6 1098 (1100-3.6)		

AERODROME CHART

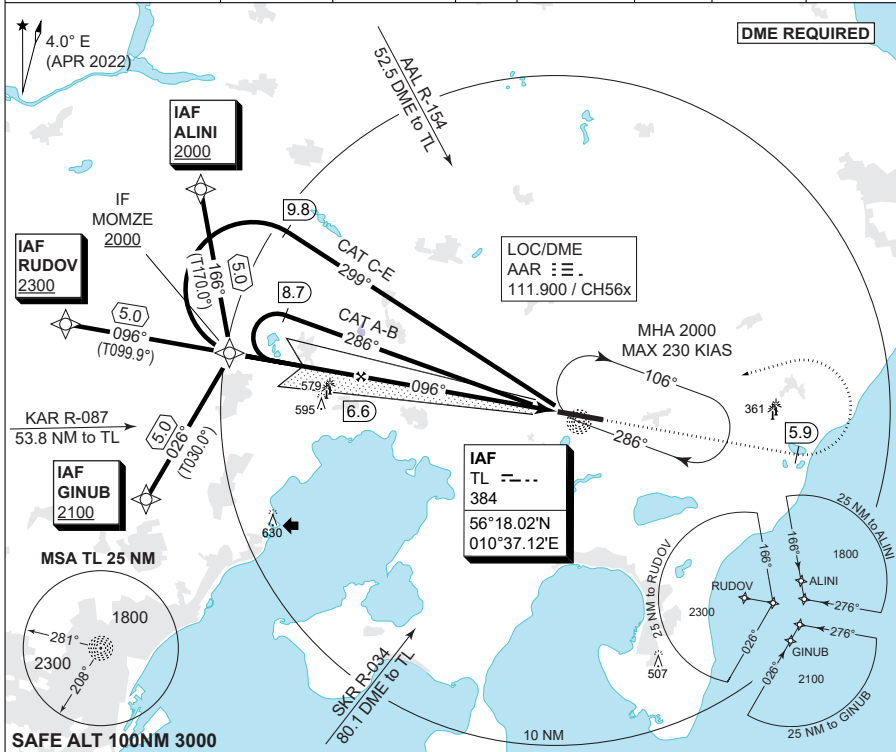
AARHUS (EKAH)

MIPS INSTRUMENT APPROACH CHART

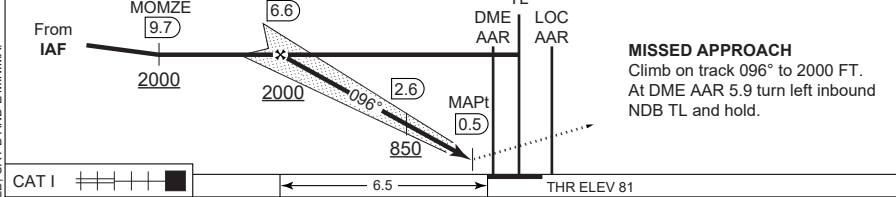
ILS or LOC RWY 10R AARHUS (EKAH)

AD ELEV 82

COPENHAGEN CONTROL 313.425 123.725		AARHUS ATIS 121.155		AARHUS APPROACH 119.280		AARHUS TOWER 118.530	
LOC/DME AAR 111.900/CH 56x	APP COURSE 096°	GS INTCP ALT 2000 FT	GS 2.75°	DA See CAT	THR ELEV 81	ALS 900 M	LDA 8869 FT



TA 3000	GS 2.75°	RDH 34	CDFA: 2.75° / 4.8%			
From IAF	IF MOMZE 2000	FAF 2000	DME AAR	LOC AAR	MISSED APPROACH	
	9.7	6.6	6	5	4	3
			5.9	4.9	3.9	2.9
			1840	1550	1260	960
						670



CATEGORY	A	B	C	D	E
S-ILS 10R	281 - 550 200 (200-0.8/1.2)				
S-LOC 10R	480 - 1100 398 (400-1.1/1.8)				
CIRCLING	570 - 1.5 488 (500-1.5)	680 - 1.6 598 (600-1.6)	1060 - 2.4 978 (1000-2.4)	1180 - 3.6 1098 (1100-3.6)	1180 - 3.6 1098 (1100-3.6)

ILS or LOC RWY 10R 56°18.00'N 010°37.14'E **AARHUS (EKAH)**

CHANGES: CHART REVISED, CAT D AND E MINIMA.

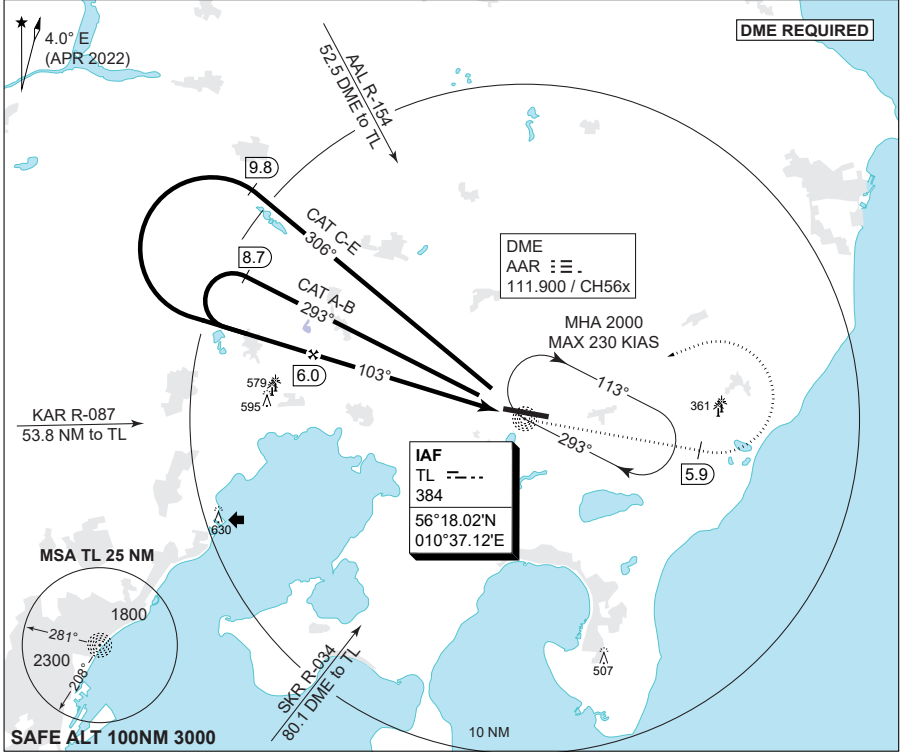
AIR COMMAND DENMARK - MIL AIM 22 FEB 2024

MIPS INSTRUMENT APPROACH CHART

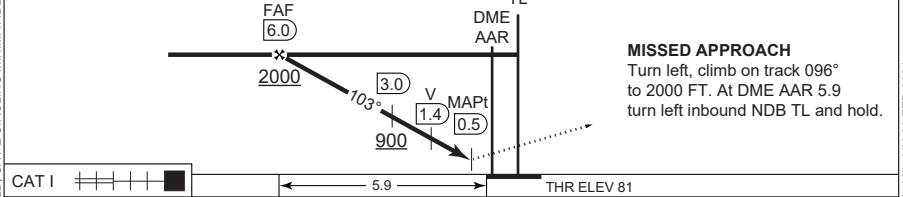
AD ELEV 82

NDB RWY 10R AARHUS (EKAH)

COPENHAGEN CONTROL 313.425 123.725		AARHUS ATIS 121.155		AARHUS APPROACH 119.280		AARHUS TOWER 118.530	
NDB TL 384	DME AAR CH 56x	APP COURSE 103°	FAF ALT 2000 FT	DESCENT GR 3.0° (5.24%)	MDA 590	THR ELEV 81	ALS 900 M LDA 8869 FT



TA 3000	CDFA: 3.0° / 5.24%					
	DME AAR	6	5	4	3	2
	DIST THR	5.9	4.9	3.9	2.9	1.9
	ALT	2000	1680	1360	1050	730



CATEGORY	A	B	C	D	E
S-NDB 10R	590 - 1600 508 (600-1.6/2.4)				
CIRCLING	590 - 1.6 508 (600-1.6)	680 - 1.6 598 (600-1.6)	1060 - 2.4 978 (1000-2.4)	1180 - 3.6 1098 (1100-3.6)	1180 - 3.6 1098 (1100-3.6)

NDB RWY 10R 56°18.00'N
010°37.14'E **AARHUS (EKAH)**

2-3

CHANGES: CHART REVISED, CAT E CIRCLING MINIMA ADDED.

AIR COMMAND DENMARK - MIL_AIM 22 FEB 2024

EKAH

MIPS INSTRUMENT APPROACH CHART

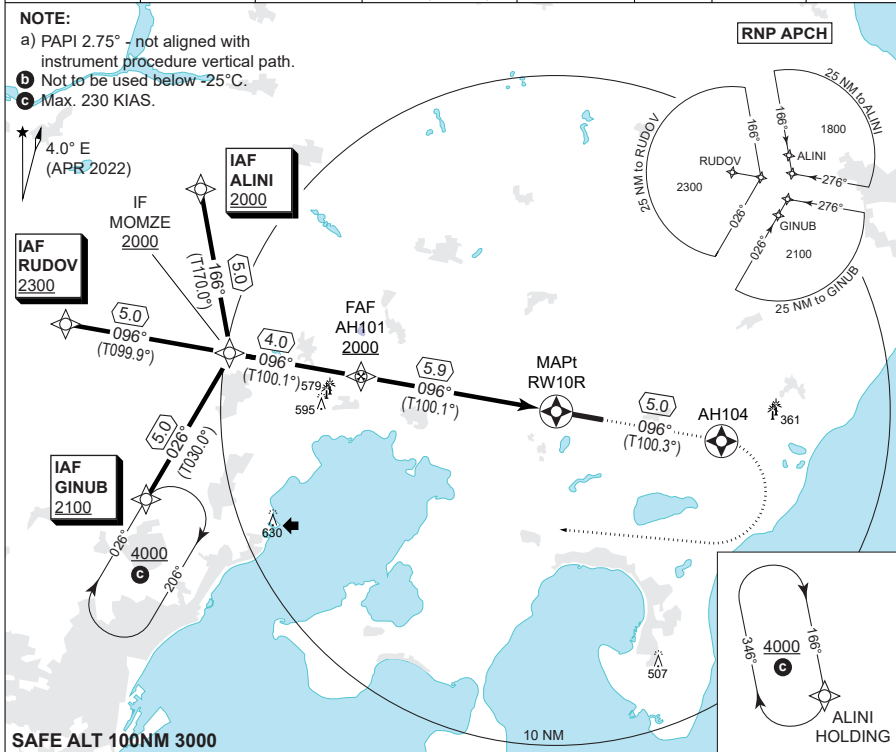
AD ELEV 82

RNP RWY 10R AARHUS (EKAH)

COPENHAGEN CONTROL 313.425 123.725		AARHUS ATIS 121.155		AARHUS APPROACH 119.280		AARHUS TOWER 118.530	
EGNOS CHANNEL 45346 / E10A	APP COURSE 096°	FAF ALT 2000 FT	DESCENT GR 3.0° (5.24%)	MINIMA See CAT	THR ELEV 81	ALS 900 M	LDA 8869 FT

NOTE:

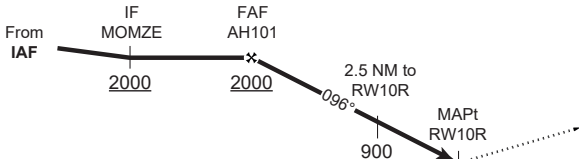
- a) PAPI 2.75° - not aligned with instrument procedure vertical path.
- b) Not to be used below -25°C.
- c) Max. 230 KIAS.



TA 3000
GS 3.0°
RDH 50

CDFA: 3.00° / 5.24%

DIST RW10R	5	4	3	2	1
ALT	1720	1410	1090	770	450



MISSED APPROACH

Climb on track to overfly AH104. Turn right direct to GINUB and hold at 4000 ft.

CAT I

THR ELEV 81

CATEGORY	A	B	C	D	E
LPV	331 - 600 250 (300-0.8/1.3)				
LNAV/VNAV b	360 - 600 278 (300-0.8/1.3)	380 - 650 298 (300-0.8/1.4)	380 - 650 298 (300-0.8/1.4)	400 - 700 318 (400-0.8/1.4)	420 - 800 338 (400-0.8/1.5)
LNAV	480 - 1100 398 (400-1.1/1.8)				
CIRCLING	570 - 1.5 488 (500-1.5)	680 - 1.6 598 (600-1.6)	1060 - 2.4 978 (1000-2.4)	1180 - 3.6 1098 (1100-3.6)	1180 - 3.6 1098 (1100-3.6)

RNP RWY 10R

56°18.00'N
010°37.14'E

AARHUS (EKAH)

EKAH RNP RWY 10R waypoint coordinates:

RWY 10R from ALINI APPROACH RNP

		CODING				DISPLAY	
ALINI	IAF	56 24	59.67N	010 16	54.33E	56 24.995'N	010 16.906'E
MOMZE	IF	56 20	03.54N	010 18	28.24E	56 20.059'N	010 18.471'E
AH101	FAF	56 19	21.87N	010 25	28.86E	56 19.365'N	010 25.481'E
RW10R	MAPt	56 18	19.77N	010 35	51.24E	56 18.329'N	010 35.854'E
AH104	MATF	56 17	26.08N	010 44	40.96E	56 17.435'N	010 44.683'E
GINUB	MAHF	56 15	43.14N	010 13	57.87E	56 15.719'N	010 13.965'E

RWY 10R from RUDOV APPROACH RNP

		CODING				DISPLAY	
RUDOV	IAF	56 20	55.59N	010 09	35.03E	56 20.927'N	010 09.584'E
MOMZE	IF	56 20	03.54N	010 18	28.24E	56 20.059'N	010 18.471'E
AH101	FAF	56 19	21.87N	010 25	28.86E	56 19.365'N	010 25.481'E
RW10R	MAPt	56 18	19.77N	010 35	51.24E	56 18.329'N	010 35.854'E
AH104	MATF	56 17	26.08N	010 44	40.96E	56 17.435'N	010 44.683'E
GINUB	MAHF	56 15	43.14N	010 13	57.87E	56 15.719'N	010 13.965'E

RWY 10R from GINUB APPROACH RNP

		CODING				DISPLAY	
GINUB	IAF	56 15	43.14N	010 13	57.87E	56 15.719'N	010 13.965'E
MOMZE	IF	56 20	03.54N	010 18	28.24E	56 20.059'N	010 18.471'E
AH101	FAF	56 19	21.87N	010 25	28.86E	56 19.365'N	010 25.481'E
RW10R	MAPt	56 18	19.77N	010 35	51.24E	56 18.329'N	010 35.854'E
AH104	MATF	56 17	26.08N	010 44	40.96E	56 17.435'N	010 44.683'E
GINUB	MAHF	56 15	43.14N	010 13	57.87E	56 15.719'N	010 13.965'E

Threshold coordinates RWY 10R

		CODING				DISPLAY	
RWY 10R		56 18	19.77N	010 35	51.24E	56 18.329'N	010 35.854'E

CHANGES: AH102 RENAMED TO MOMZE.

AIR COMMAND DENMARK - MIL AIM 07 SEP 2023

MIPS

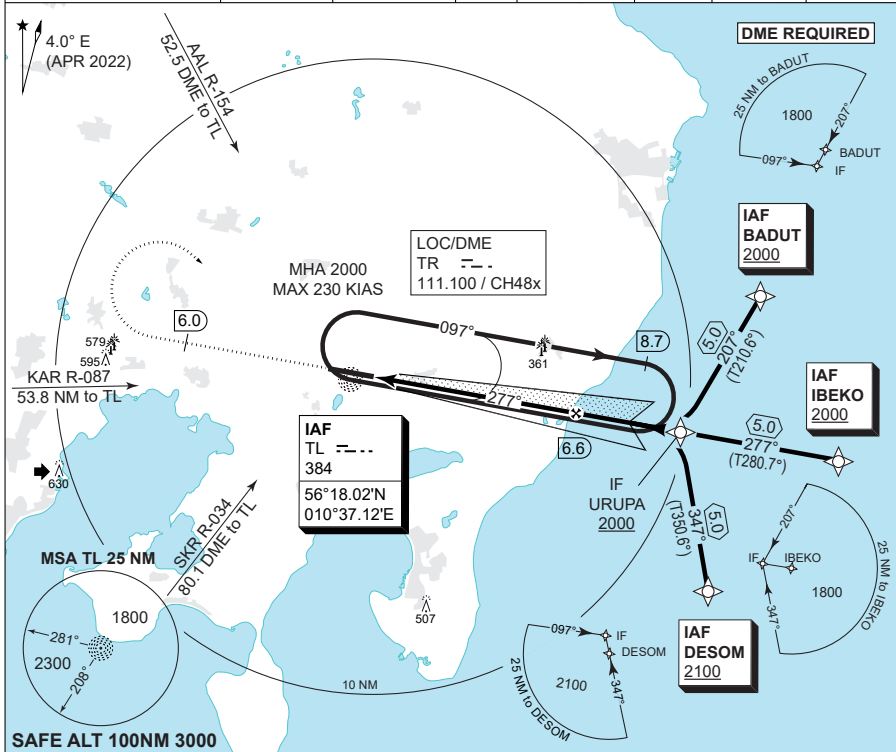
INSTRUMENT APPROACH CHART

AD ELEV 82

ILS or LOC RWY 28L (CAT A-B)

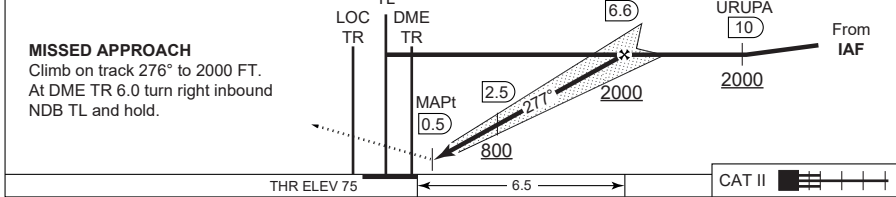
AARHUS (EKAH)

COPENHAGEN CONTROL 313.425 123.725		AARHUS ATIS 121.155		AARHUS APPROACH 119.280		AARHUS TOWER 118.530	
LOC/DME TR 111.100/CH 48x	APP COURSE 277°	GS INTCP ALT 2000 FT	GS 2.75°	DA 275	THR ELEV 75	ALS 900 M	LDA 8869 FT



SAFE ALT 100NM 3000

CDFA: 2.75° / 4.8%						
DME AAR	2	3	4	5	6	
DIST THR	1.9	2.9	3.9	4.9	5.9	
ALT	670	960	1260	1550	1840	



CATEGORY	A		B	
S-ILS CAT I	275 - 550 200 (200-0.8/1.2)			
S-ILS CAT II	RA 99 (DA 175) - 350 100			
S-LOC 28L	480 - 1100 398 (400-1.1/1.8)			
CIRCLING	570 - 1.5 488 (500-1.5)		680 - 1.6 598 (600-1.6)	

ILS or LOC RWY 28L (CAT A-B) AARHUS (EKAH)

56°18.00'N
010°37.14'E
2-6

CHANGES: TAA ADDED.

AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

MIPS

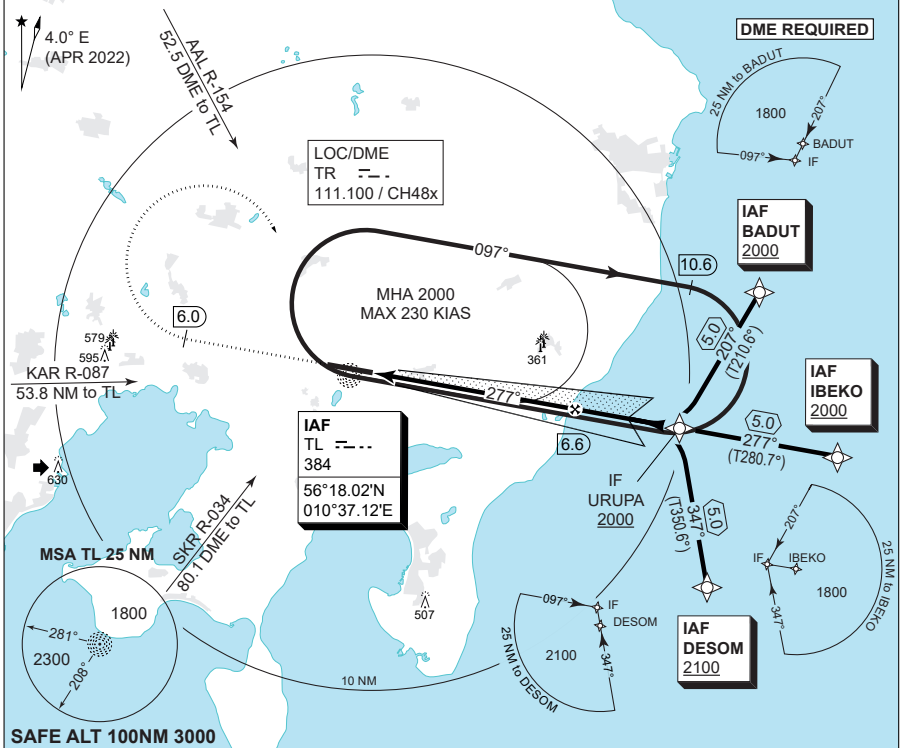
INSTRUMENT APPROACH CHART

AD ELEV 82

ILS or LOC RWY 28L (CAT C-E)

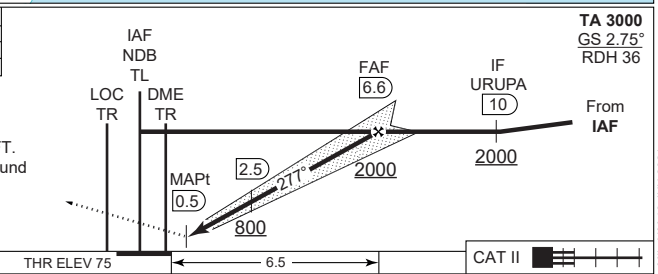
AARHUS (EKAH)

COPENHAGEN CONTROL 313.425 123.725		AARHUS ATIS 121.155		AARHUS APPROACH 119.280		AARHUS TOWER 118.530	
LOC/DME TR 111.100/CH 48x	APP COURSE 277°	GS INTCP ALT 2000 FT	GS 2.75°	DA 275	THR ELEV 75	ALS 900 M	LDA 8869 FT



CDFA: 2.75° / 4.8%

DME AAR	2	3	4	5	6
DIST THR	1.9	2.9	3.9	4.9	5.9
ALT	670	960	1260	1550	1840



CATEGORY	C	D	E
S-ILS CAT I	275 - 550 200 (200-0.8/1.2)		
S-ILS CAT II	RA 99 (DA 175) - 350 100		N/A
S-LOC 28L	480 - 1100 398 (400-1.1/1.8)		
CIRCLING	1060 - 2.4 978 (1000-2.4)	1180 - 3.6 1098 (1100-3.6)	1180 - 3.6 1098(1100-3.6)

ILS or LOC RWY 28L (CAT C-E)

56°18.00'N
010°37.14'E

AARHUS (EKAH)

CHANGES: TAA ADDED.

AIR COMMAND DENMARK - MIL AIM 13 JUN 2024



MIPS

INSTRUMENT APPROACH CHART

AD ELEV 82

NDB RWY 28L (CAT A-B)

AARHUS (EKAH)

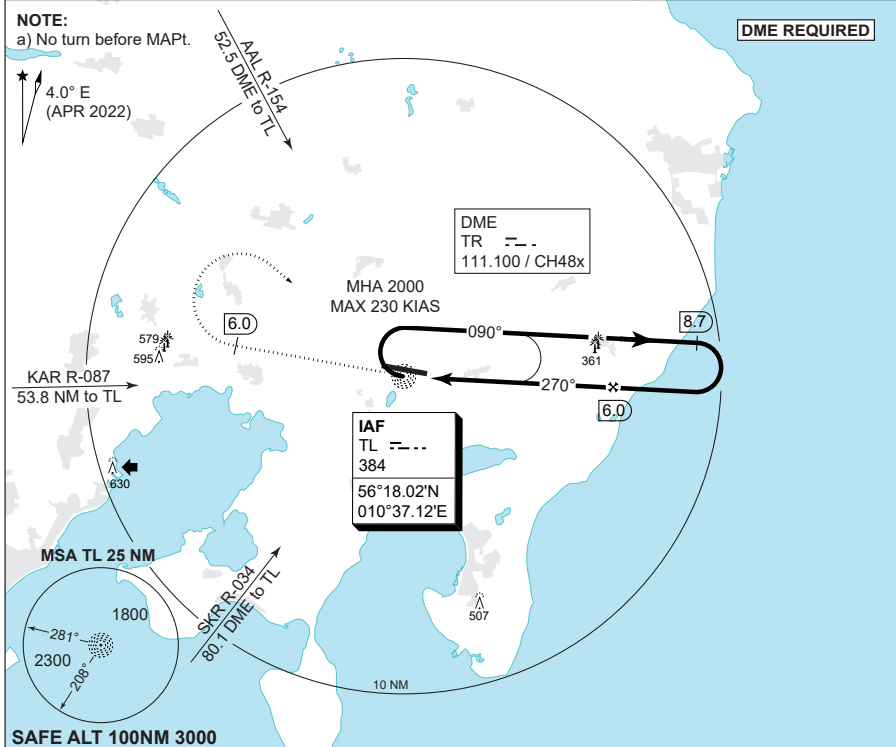
COPENHAGEN CONTROL 313.425 123.725		AARHUS ATIS 121.155		AARHUS APPROACH 119.280		AARHUS TOWER 118.530	
NDB TL 384	APP COURSE 270°	FAF ALT 2000 FT	DESCENT GR 3.0° (5.24%)	MDA 480	THR ELEV 75	ALS 900 M	LDA 8869 FT

NOTE:

a) No turn before MAPt.

4.0° E
(APR 2022)

DME REQUIRED



SAFE ALT 100NM 3000

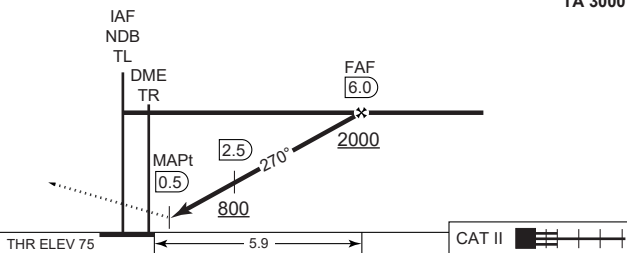
CDFA: 3.0° / 5.24%

DME TR	2	3	4	5	6
DIST THR	1.9	2.9	3.9	4.9	5.9
ALT	720	1040	1360	1680	2000

TA 3000

MISSED APPROACH

Turn right, climb on track 277° to 2000 FT. At DME TR 6.0 turn right inbound NDB TL and hold.



AIR COMMAND DENMARK - MIL AIM 22 FEB 2024

CATEGORY	A		B	
S-NDB 28L	480 - 1100 398 (400-1.1/1.8)			
CIRCLING	570 - 1.5 488 (500-1.5)		680 - 1.6 598 (600-1.6)	

NDB RWY 28L (CAT A-B)

56°18.00'N
010°37.14'E

AARHUS (EKAH)

CHANGES: CHART REVISED, EDITORIAL.

MIPS

MIPS

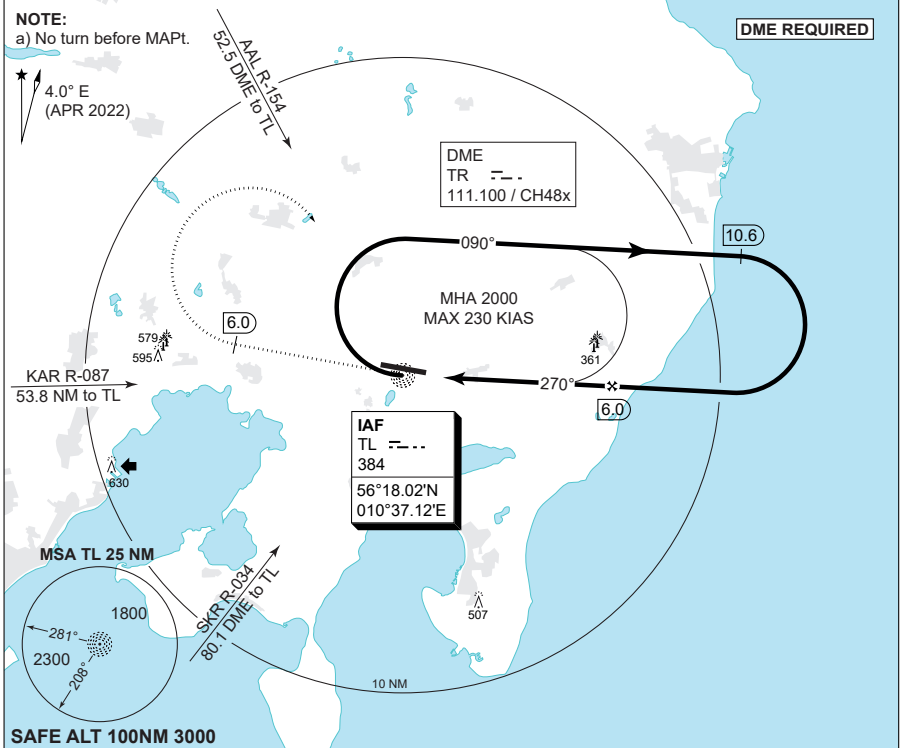
INSTRUMENT APPROACH CHART

AD ELEV 82

NDB RWY 28L (CAT C-E)

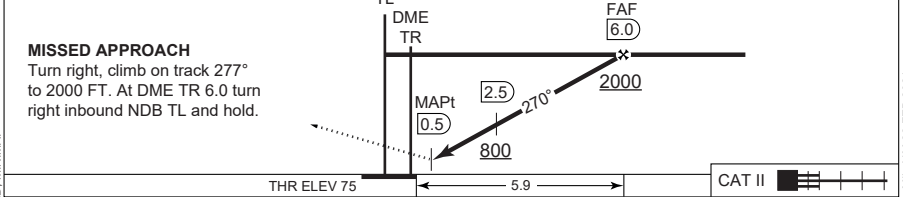
AARHUS (EKAH)

COPENHAGEN CONTROL 313.425 123.725		AARHUS ATIS 121.155		AARHUS APPROACH 119.280		AARHUS TOWER 118.530	
NDB TL 384	APP COURSE 270°	FAF ALT 2000 FT	DESCENT GR 3.0° (5.24%)	MDA See CAT	THR ELEV 75	ALS 900 M	LDA 8869 FT



SAFE ALT 100NM 3000

CDFA: 3.0° / 5.24%							TA 3000
DME TR	2	3	4	5	6		
DIST THR	1.9	2.9	3.9	4.9	5.9		
ALT	720	1040	1360	1680	2000		



THR ELEV 75 5.9 CAT II

CATEGORY	C	D	E
S-NDB 28L	490 - 1200 415 (500-1.2/1.9)	510 - 1300 435 (500-1.3/2.0)	560 - 1500 485 (500-1.5/2.3)
CIRCLING	1060 - 2.4 978 (1000-2.4)	1180 - 3.6 1098 (1100-3.6)	1180 - 3.6 1098 (1100-3.6)

NDB RWY 28L (CAT C-E) 56°18.00'N AARHUS (EKAH)

010°37.14'E

2-9

CHANGES: CHART REVISED, MINIMA.

MIPS

AIR COMMAND DENMARK - MIL AIM 22 FEB 2024



MIPS

INSTRUMENT APPROACH CHART

AD ELEV 82

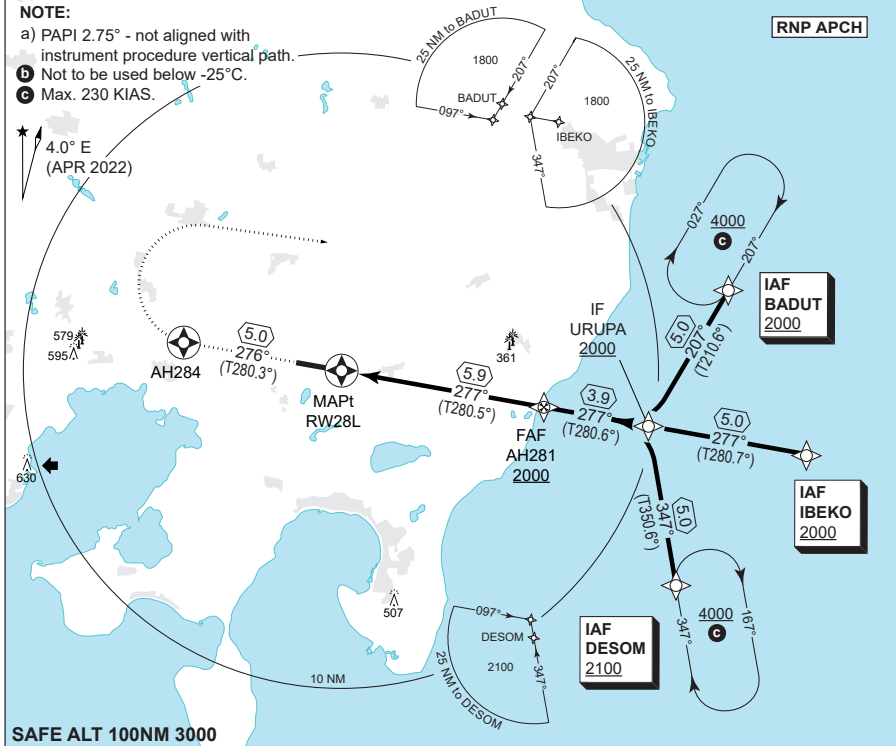
RNP RWY 28L

AARHUS (EKAH)

COPENHAGEN CONTROL 313.425 123.725		AARHUS ATIS 121.155		AARHUS APPROACH 119.280		AARHUS TOWER 118.530	
EGNOS CHANNEL 48468 / E28A	APP COURSE 277°	FAF 2000 FT	DESCENT GR 3.0° (5.24%)	MINIMA See CAT	THR ELEV 75	ALS 900 M	LDA 8869 FT

NOTE:

- a) PAPI 2.75° - not aligned with instrument procedure vertical path.
- b) Not to be used below -25°C.
- c) Max. 230 KIAS.



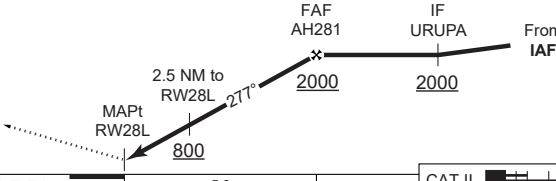
SAFE ALT 100NM 3000

CDFA: 3.0° / 5.24%					
DIST RW28L	1	2	3	4	5
ALT	450	770	1080	1400	1720

TA 3000
GS 3.0°
TCH 50

MISSED APPROACH

Climb on track 276° to overfly AH284. Turn right direct to BADUT and hold at 4000 FT.



THR ELEV 75

5.9



CATEGORY	A	B	C	D	E
LPV	325 - 600 250 (300-0.8/1.3)				
LNAV/VNAV b	360 (300-0.8/1.3)	380 (300-0.8/1.4)	390 (400-0.8/1.4)	400 (400-0.8/1.4)	420 (400-0.8/1.5)
LNAV	480 - 1100 398 (400-1.1/1.8)				
CIRCLING	570 (500-1.5)	680 (600-1.6)	1060 (1000-2.4)	1180 (1100-3.6)	1180 (1100-3.6)

RNP RWY 28L

56°18.00N
010°37.14E
2-10

AARHUS (EKAH)

CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL AIM 18 APR 2024

EKAH RNP RWY 28L waypoint coordinates:

RWY 28L from DESOM APPROACH RNP

		CODING				DISPLAY	
DESOM	IAF	56 11	20.95N	010 57	15.54E	56 11.349'N	010 57.259'E
URUPA	IF	56 16	17.56N	010 55	47.00E	56 16.293'N	010 55.783'E
AH281	FAF	56 17	00.62N	010 48	49.58E	56 17.010'N	010 48.826'E
RW28L	MAPt	56 18	04.17N	010 38	25.84E	56 18.069'N	010 38.431'E
AH284	MATF	56 18	57.42N	010 29	35.84E	56 18.957'N	010 29.597'E
BADUT	MAHF	56 20	36.42N	011 00	22.19E	56 20.607'N	011 00.370'E

RWY 28L from IBEKO APPROACH RNP

		CODING				DISPLAY	
IBEKO	IAF	56 15	22.19N	011 04	38.05E	56 15.370'N	011 04.634'E
URUPA	IF	56 16	17.56N	010 55	47.00E	56 16.293'N	010 55.783'E
AH281	FAF	56 17	00.62N	010 48	49.58E	56 17.010'N	010 48.826'E
RW28L	MAPt	56 18	04.17N	010 38	25.84E	56 18.069'N	010 38.431'E
AH284	MATF	56 18	57.42N	010 29	35.84E	56 18.957'N	010 29.597'E
BADUT	MAHF	56 20	36.42N	011 00	22.19E	56 20.607'N	011 00.370'E

RWY 28L from BADUT APPROACH RNP

		CODING				DISPLAY	
BADUT	IAF	56 20	36.42N	011 00	22.19E	56 20.607'N	011 00.370'E
URUPA	IF	56 16	17.56N	010 55	47.00E	56 16.293'N	010 55.783'E
AH281	FAF	56 17	00.62N	010 48	49.58E	56 17.010'N	010 48.826'E
RW28L	MAPt	56 18	04.17N	010 38	25.84E	56 18.069'N	010 38.431'E
AH284	MATF	56 18	57.42N	010 29	35.84E	56 18.957'N	010 29.597'E
BADUT	MAHF	56 20	36.42N	011 00	22.19E	56 20.607'N	011 00.370'E

Threshold coordinates RWY 28L

	CODING				DISPLAY	
RWY 28L	56 18	04.17N	010 38	25.84E	56 18.069'N	010 38.431'E

CHANGES: AH282 RENAMED TO URUPA.

AIR COMMAND DENMARK - MIL/AM 07 SEP 2023

INTENTIONALLY

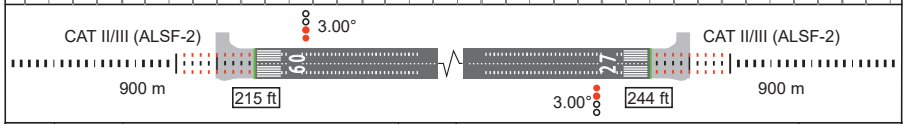
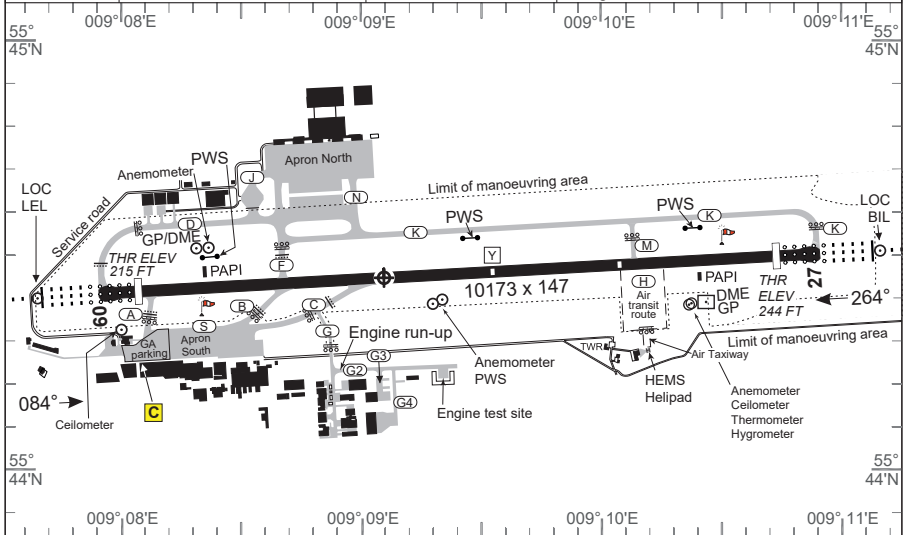
LEFT

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AERODROME CHART

BILLUND (EKBI)

BILLUND ATIS (ARR/DEP) 118.780 129.105	BILLUND TOWER (ARR/DEP) 119.005 129.505	BILLUND APPROACH 127.580	Billund ARO: 131.500 Tel.: +45 76 50 50 50 All departing flights must file a complete or abbreviated flight plan to Billund ARO before taxiing.
AD Elev 247	ARP 55°44.42'N 009°09.11'E	VAR 3.0°E (JUN 2020)	



RWY	PCN	DECLARED DISTANCES					THR ELEV	RWY LIGHTING						
		PSN	TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE	END	THR PSN
09		D	10173	10173	10173	9681	215	LIH	3°	LIH	LIH	LIH	LIH	55°44.39'N
		A	9471	9471	9471			Green		White		Red	009°08.09'E	
		B	7709	7709	7709									
		F	7621	7621	7621									
		C	6669	6669	6669									
27	110 F/A/X/T	K	9681	9681	10173	9681	244	LIH	3°	LIH	7200 ft White	500 ft Red	LIH	55°44.47'N
		O/R	O/R	O/R				Green		White	2000 ft Red/white	7700 ft White	Red	009°10.76'E
		M	7126	7126	7618									
		Y	5088	5088	5580									
		C	3438	3438	3930									
		B	2273	2273	2765									

Climb out for flights not cleared via an SID (MAX IAS 250 KT FL 60 and below):

RWY 09: For jet aeroplanes irrespective of weight and for propeller and turbo-propeller aeroplanes with MTOM above 5700kg: Climb on track 084° MAG to INLIS or 1000 FT MSL whichever is later, then turn according to clearance. Minimum climb gradient 3.7% until passing 1000 FT.

RWY 09: For propeller and turbo propeller aeroplanes with MTOM 5700kg or less: Climb on track 084° MAG to 1000 FT MSL, then turn according clearance. Minimum climb gradient 3.7% until passing 1000 FT MSL.

RWY 27: All aeroplanes: Climb on track 264° MAG to DME LEL 1.0 NM or 700 FT MSL, whichever is later, then turn according to clearance.

MIPS	CIRCLING MINIMA (North of AD only)								
	A	B	C	D	E				
800	-1.5 553 (600-1.5)	820	-1.6 573 (600-1.6)	1100	-2.4 853 (900-2.4)	1100	-3.6 853 (900-3.6)	1200	-3.6 953 (1000-3.6)

AERODROME CHART

BILLUND (EKBI)

BILLUND OPERATIONS

1. GROUND HANDLING (FIGHTER AIRCRAFT ONLY)

- 1.1. Parking iaw. ATC instructions. F-35 expect to be parked on Apron South. F-35 to be parked on concrete only and with enough room to enable onward taxi out to the runway (no towbar available).
- 1.2. For F-35 JET-A/JET-A1 is characterized as "Restricted Fuel" iaw. FSD. RTB flight to be conducted as direct transit flight back to EKSP. Aircraft to be partially refueled iaw. RTB mission profile.
- 1.3. Billund Marshallers are familiar with "F-35 Ground Ladder" operation, but it is the pilot's responsibility to be familiar with, and be able to instruct civilian ground personnel in its operation, from the cockpit.

MIPS

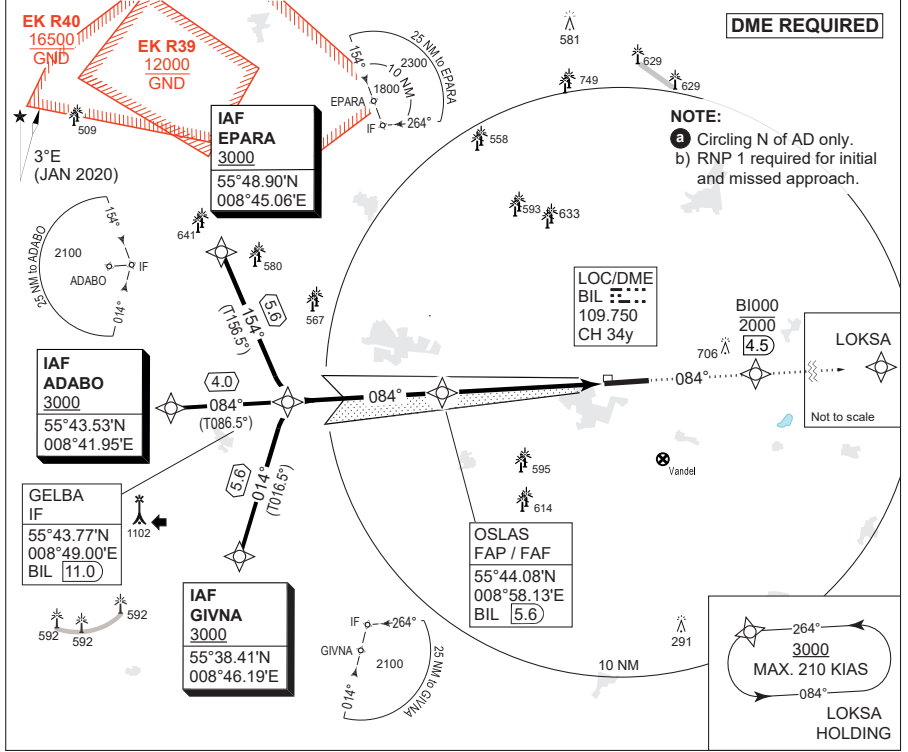
INSTRUMENT APPROACH CHART

AD ELEV 247

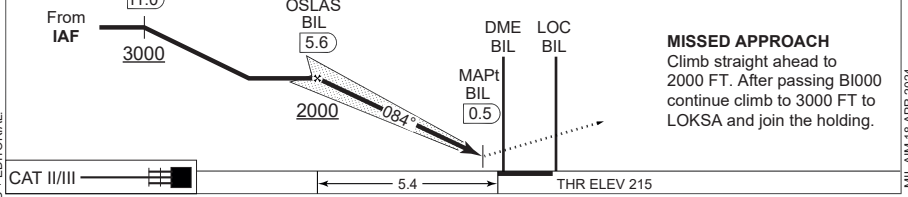
ILS or LOC Z RWY 09

BILLUND (EKBI)

COPENHAGEN CONTROL 362.750 136.550	BILLUND ATIS (ARR / DEP) 118.780 129.105	BILLUND APPROACH 127.580	BILLUND TOWER (ARR / DEP) 119.005 129.505
LOC / DME BIL 109.750 / CH 34y	APP COURSE 084°	GS INTCP ALT 2000 FT	GS DA THR ELEV 3.00° 415 215
		ALS LENGTH 900 M	LDA 9681 FT



TA 3000 GS 3.00° RDH 50	GELBA BIL 11.0	OSLAS BIL 5.6	CDFA: GS 3.00° / 5.2% / 318 ft/NM
			DME BIL 5 4 3 2 1
			DIST THR 4.85 3.85 2.85 1.85 0.85
			ALT 1810 1490 1180 860 540



CATEGORY	A	B	C	D	E
ILS CAT I		415 - 550 200 (200-0.8/1.2)			475 - 600 260 (300-0.8/1.3)
ILS CAT II		RA 102 (DA 315) - 350 100			N/A
LOC 09		640 - 1300 425 (500-1.3/2.0)			

CIRCLING a	800 - 1.5 553 (600-1.5)	820 - 1.6 573 (600-1.6)	1100 - 2.4 853 (900-2.4)	1100 - 3.6 853 (900-3.6)	1200 - 3.6 953 (1000-3.6)
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ILS or LOC Z RWY 09

55°44.42'N
009°09.11'E

BILLUND (EKBI)

CHANGES: LDA ADJUSTED + EDITORIAL

AIR COMMAND DENMARK - MIL AIM 19 APR 2024

EKBI

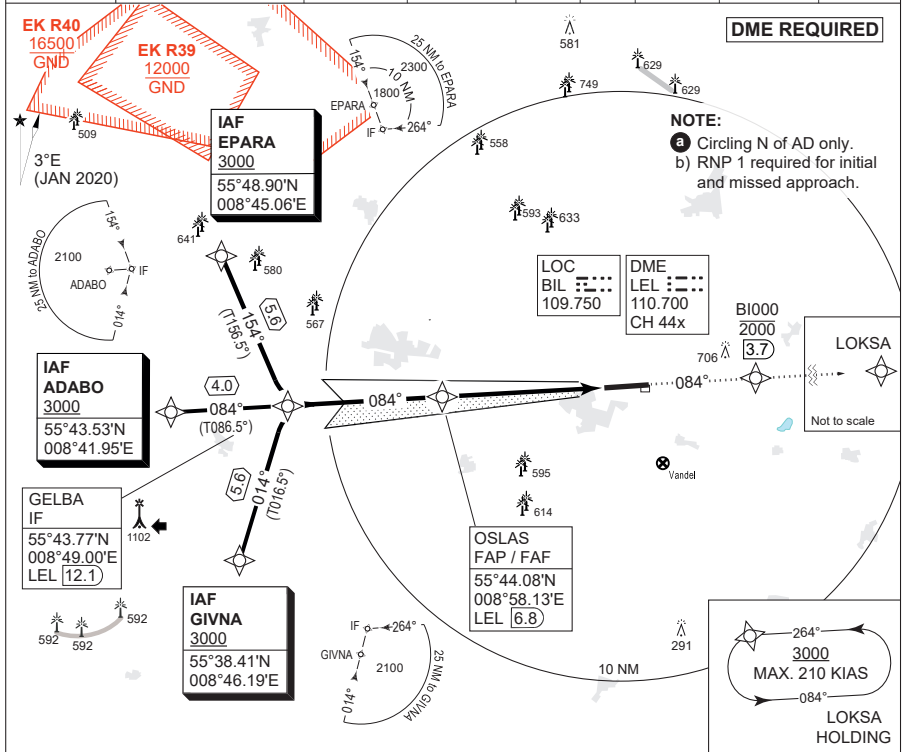
MIPS
INSTRUMENT APPROACH CHART

ILS or LOC Y RWY 09
BILLUND (EKBI)

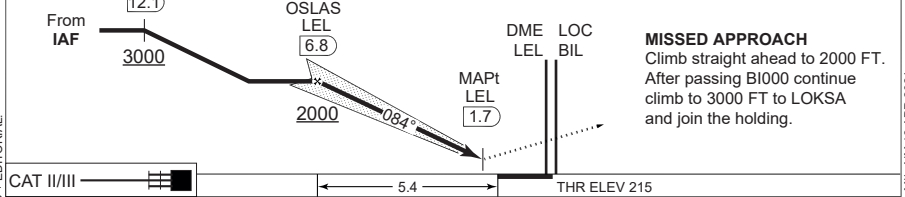
AD ELEV 247

COPENHAGEN CONTROL 362.750 136.550	BILLUND ATIS (ARR / DEP) 118.780 129.105	BILLUND APPROACH 127.580	BILLUND TOWER (ARR / DEP) 119.005 129.505
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LOC BIL 109.750	DME LEL 110.700/CH 44x	APP COURSE 084°	GS INTCP ALT 2000 FT	GS 3.00°	DA 415	THR ELEV 215	ALS LENGTH 900 M	LDA 9681 FT
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TA 3000 GS 3.00° RDH 50	GELBA LEL 12.1	OSLAS LEL 6.8	DME LEL 110.700	LOC BIL 109.750	MAPT LEL 1.7	THR ELEV 215	CDFAs: GS 3.00° / 5.2% / 318 ft/NM
							DME BIL 5 4 3 2 1
							DIST THR 4.85 3.85 2.85 1.85 0.85
							ALT 1810 1490 1180 860 540



CATEGORY	A	B	C	D	E
ILS CAT I		415 - 550 200 (200-0.8/1.2)			475 - 600 260 (300-0.8/1.3)
ILS CAT II		RA 102 (DA 315) - 350 100			N/A
LOC 09		640 - 1300 425 (500-1.3/2.0)			

CIRCLING a	800 - 1.5 553 (600-1.5)	820 - 1.6 573 (600-1.6)	1100 - 2.4 853 (900-2.4)	1100 - 3.6 853 (900-3.6)	1200 - 3.6 953 (1000-3.6)
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ILS or LOC Y RWY 09

55°44.42'N
009°09.11'E

BILLUND (EKBI)

CHANGES: LDA ADJUSTED + EDITORIAL

AIR COMMAND DENMARK - MIL AIM 16 APR 2024

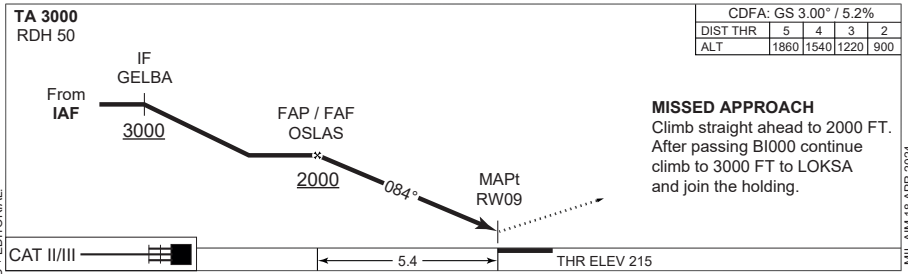
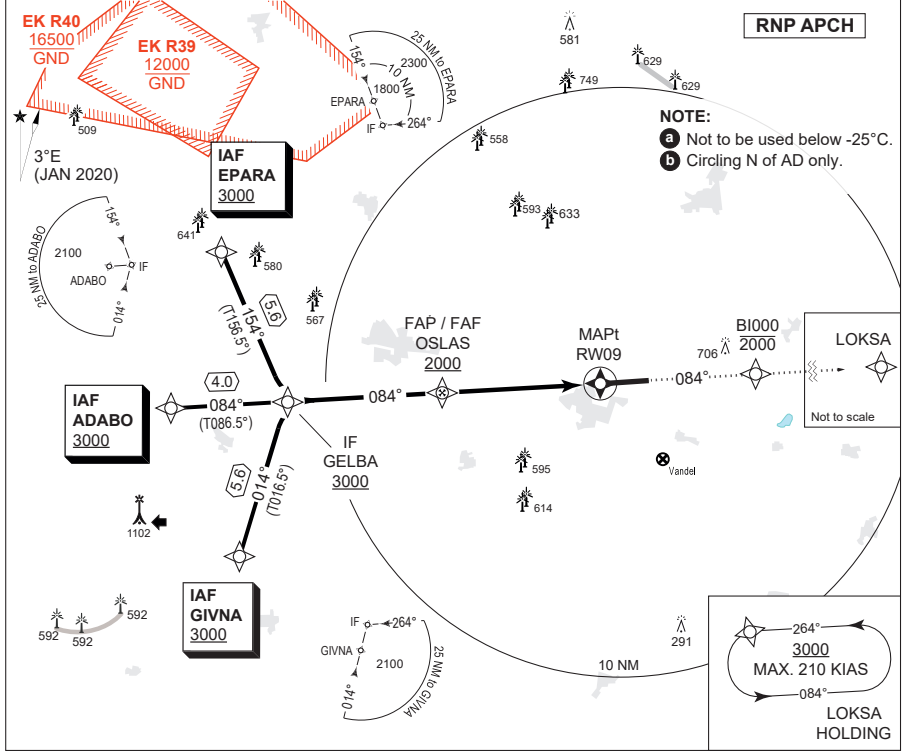
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 247

**RNP RWY 09
BILLUND (EKBI)**

COPENHAGEN CONTROL 362.750 136.550	BILLUND ATIS (ARR / DEP) 118.780 129.105	BILLUND APPROACH 127.580	BILLUND TOWER (ARR / DEP) 119.005 129.505
EGNOS CHANNEL 57711 / E09A	APP COURSE 084°	FAF ALT 2000 FT	DESCENT GR 3.0° (5.2%)
		DA See CAT	THR ELEV 215
		ALS LENGTH 900 M	LDA 9681 FT



CATEGORY	A	B	C	D	E
LPV	465 - 600 250 (300-0.8/1.2)				
LNAV/VNAV a	530 - 700 315 (400-0.7/1.4)	540 - 800 325 (400-0.8/1.5)	550 - 800 335 (400-0.8/1.5)	560 - 900 345 (400-0.9/1.6)	570 - 900 355 (400-0.9/1.6)
LNAV	640 - 1300 425 (500-1.3/2.0)				
CIRCLING b	800 - 1.5 553 (600-1.5)	820 - 1.6 573 (600-1.6)	1100 - 2.4 853 (900-2.4)	1100 - 3.6 853 (900-3.6)	1200 - 3.6 953 (1000-3.6)

RNP RWY 09

55°44.42'N
009°09.11'E

BILLUND (EKBI)

EKBI

CHANGES: LDA ADJUSTED + EDITORIAL

AIR COMMAND DENMARK - MIL AIM 16 APR 2024

EKBI RNP RWY 09 waypoint coordinates:**RWY 09 from EPARA (Initial LEFT) APPROACH RNP**

		CODING				DISPLAY	
EPARA	IAF	55 48 53.73N	008 45 03.66E	55 48.895N	008 45.061E		
GELBA	IF	55 43 46.09N	008 49 00.40E	55 43.767N	008 49.000E		
OSLAS	FAP/FAF	55 44 04.88N	008 58 27.93E	55 44.081N	008 58.132E		
RW09	MAPt	55 44 23.24N	009 08 05.34E	55 44.387N	009 08.089E		
BI000	MATF	55 44 40.12N	009 16 55.26E	55 44.669N	009 16.921E		
LOKSA	MAHF	55 45 03.55N	009 30 47.65E	55 45.059N	009 30.794E		

RWY 09 from ADABO (Initial CENTRE) APPROACH RNP

		CODING				DISPLAY	
ADABO	IAF	55 43 31.58N	008 41 56.73E	55 43.526N	008 41.946E		
GELBA	IF	55 43 46.09N	008 49 00.40E	55 43.767N	008 49.000E		
OSLAS	FAP/FAF	55 44 04.88N	008 58 27.93E	55 44.081N	008 58.132E		
RW09	MAPt	55 44 23.24N	009 08 05.34E	55 44.387N	009 08.089E		
BI000	MATF	55 44 40.12N	009 16 55.26E	55 44.669N	009 16.921E		
LOKSA	MAHF	55 45 03.55N	009 30 47.65E	55 45.059N	009 30.794E		

RWY 09 from GIVNA (Initial RIGHT) APPROACH RNP

		CODING				DISPLAY	
GIVNA	IAF	55 38 24.65N	008 46 11.24E	55 38.411N	008 46.187E		
GELBA	IF	55 43 46.09N	008 49 00.40E	55 43.767N	008 49.000E		
OSLAS	FAP/FAF	55 44 04.88N	008 58 27.93E	55 44.081N	008 58.132E		
RW09	MAPt	55 44 23.24N	009 08 05.34E	55 44.387N	009 08.089E		
BI000	MATF	55 44 40.12N	009 16 55.26E	55 44.669N	009 16.921E		
LOKSA	MAHF	55 45 03.55N	009 30 47.65E	55 45.059N	009 30.794E		

Threshold coordinates RWY 09

		CODING		DISPLAY	
RWY 09		55 44 23.24N	009 08 05.34E	55 44.387N	009 08.089E

MIPS

INSTRUMENT APPROACH CHART

AD ELEV 247

ILS or LOC Z RWY 27

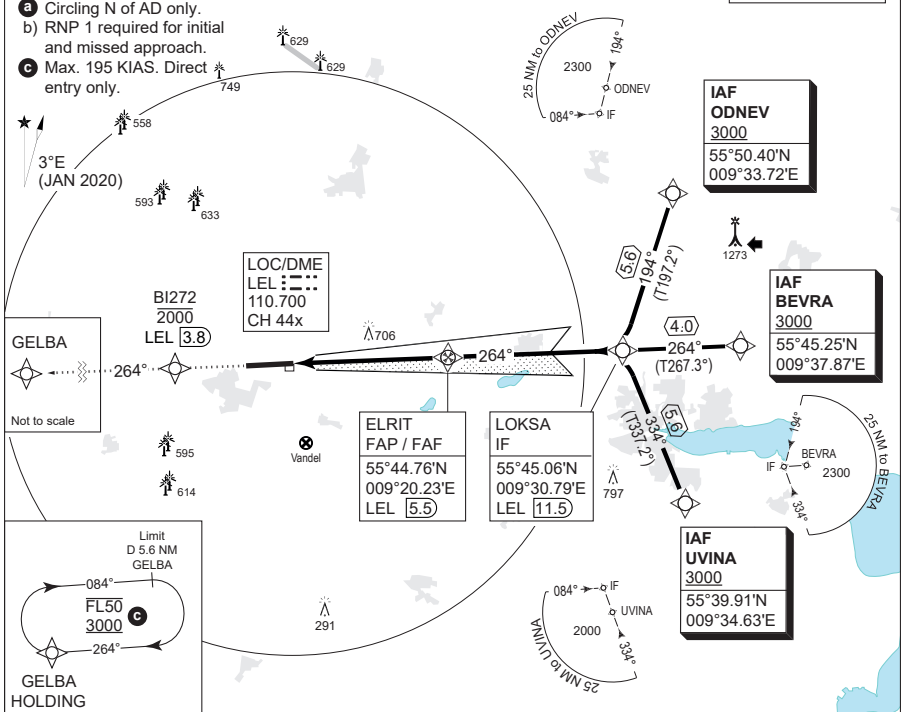
BILLUND (EKBI)

COPENHAGEN CONTROL 362.750 136.550	BILLUND ATIS (ARR / DEP) 118.780 129.105	BILLUND APPROACH 127.580	BILLUND TOWER (ARR / DEP) 119.005 129.505
LOC / DME LEL 110.700 / CH 44x	APP COURSE 264°	GS INTCP ALT 2000 FT	GS DA 3.00° SEE CAT
		THR ELEV 244	ALS LENGTH 900 M
			LDA 9681 FT

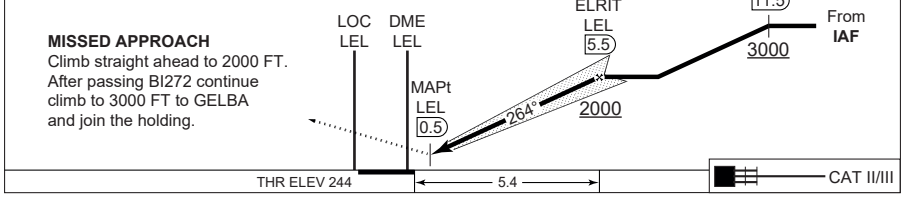
DME REQUIRED

NOTE:

- a) Circling N of AD only.
- b) RNP 1 required for initial and missed approach.
- c) Max. 195 KIAS. Direct entry only.



CDFA: GS 3.00° / 5.2%				
DME LEL	2	3	4	5
DIST THR	1.8	2.8	3.8	4.8
ALT	870	1190	1510	1830



TA 3000 GS 3.00° RDH 49					LOKSA LEL 11.5	From IAF
					3000	
					2000	
					ELRIT LEL 5.5	
					264°	
					MAPt LEL 0.5	
					2000	
					THR ELEV 244	
					5.4	
					CAT II/III	

CATEGORY	A	B	C	D	E
ILS CAT I		444 - 550 200 (200-0.8/1.2)			479 - 550 235 (300-0.8/1.2)
ILS CAT II		RA 93 (DA 344) - 350 100			N/A
LOC 27		750 - 1600 503 (600-1.6/2.4)			

CIRCLING a	800 - 1.5 553 (600-1.5)	820 - 1.6 573 (600-1.6)	1100 - 2.4 853 (900-2.4)	1100 - 3.6 853 (900-3.6)	1200 - 3.6 953 (1000-3.6)
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ILS or LOC Z RWY 27 55°44.42'N
009°09.11'E BILLUND (EKBI)

CHANGES: LDA ADJUSTED + EDITORIAL

AIRC COMMAND DENMARK - MIL_AIM_18_APR_2024

EKBI

MIPS

INSTRUMENT APPROACH CHART

AD ELEV 247

ILS or LOC Y RWY 27

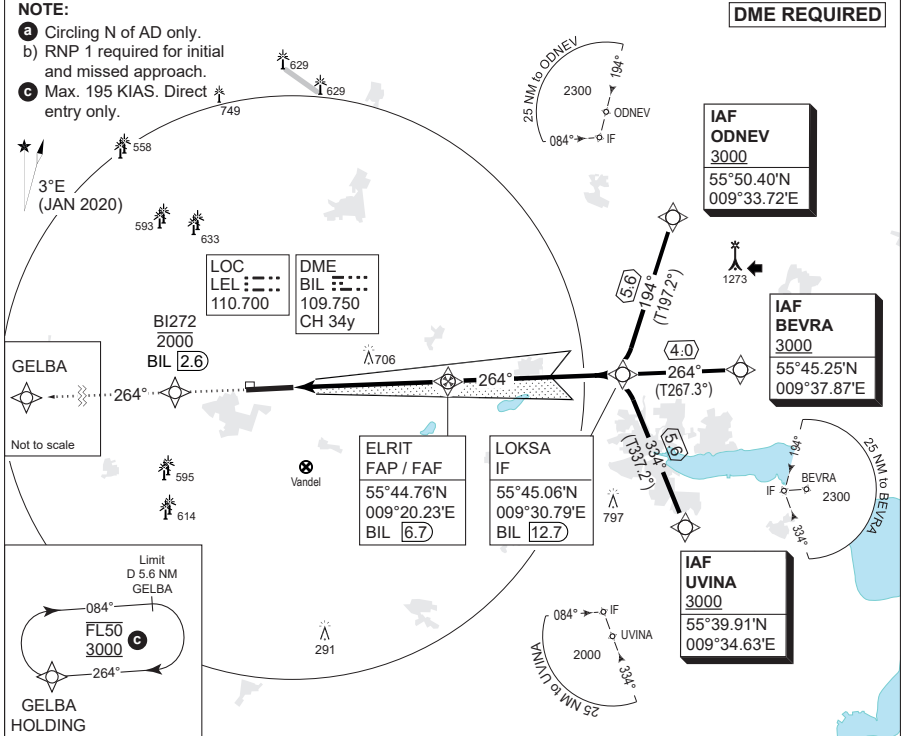
BILLUND (EKBI)

COPENHAGEN CONTROL 362.750 136.550		BILLUND ATIS (ARR / DEP) 118.780 129.105		BILLUND APPROACH 127.580		BILLUND TOWER (ARR / DEP) 119.005 129.505		
LOC LEL 110.700	DME BIL 109.750/CH 34y	APP COURSE 264°	GS INTCP ALT 2000 FT	GS 3.00°	DA SEE CAT	THR ELEV 244	ALS LENGTH 900 M	LDA 9681 FT

NOTE:

- a) Circling N of AD only.
- b) RNP 1 required for initial and missed approach.
- c) Max. 195 KIAS. Direct entry only.

DME REQUIRED

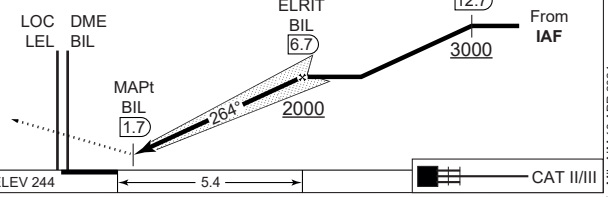


CDFA: GS 3.00° / 5.2%

DME BIL	3	4	5	6
DIST THR	1.6	2.6	3.6	4.6
ALT	815	1130	1450	1770

TA 3000
GS 3.00°
RDH 49

MISSSED APPROACH
Climb straight ahead to 2000 FT.
After passing BI272 continue climb to 3000 FT to GELBA and join the holding.



CATEGORY	A	B	C	D	E
ILS CAT I		444 - 550 200 (200-0.8/1.2)			479 - 550 235 (300-0.8/1.2)
ILS CAT II		RA 93 (DA 344) - 350 100			N/A
LOC 27		750 - 1600 503 (600-1.6/2.4)			
CIRCLING a	800 - 1.5 553 (600-1.5)	820 - 1.6 573 (600-1.6)	1100 - 2.4 853 (900-2.4)	1100 - 3.6 853 (900-3.6)	1200 - 3.6 953 (1000-3.6)

ILS or LOC Y RWY 27

55°44.42'N
009°09.11'E
3-8

BILLUND (EKBI)

CHANGES: LDA ADJUSTED + EDITORIAL.

AIR COMMAND DENMARK - MIL_AIM 18 APR 2024

MIPS

INSTRUMENT APPROACH CHART

AD ELEV 247

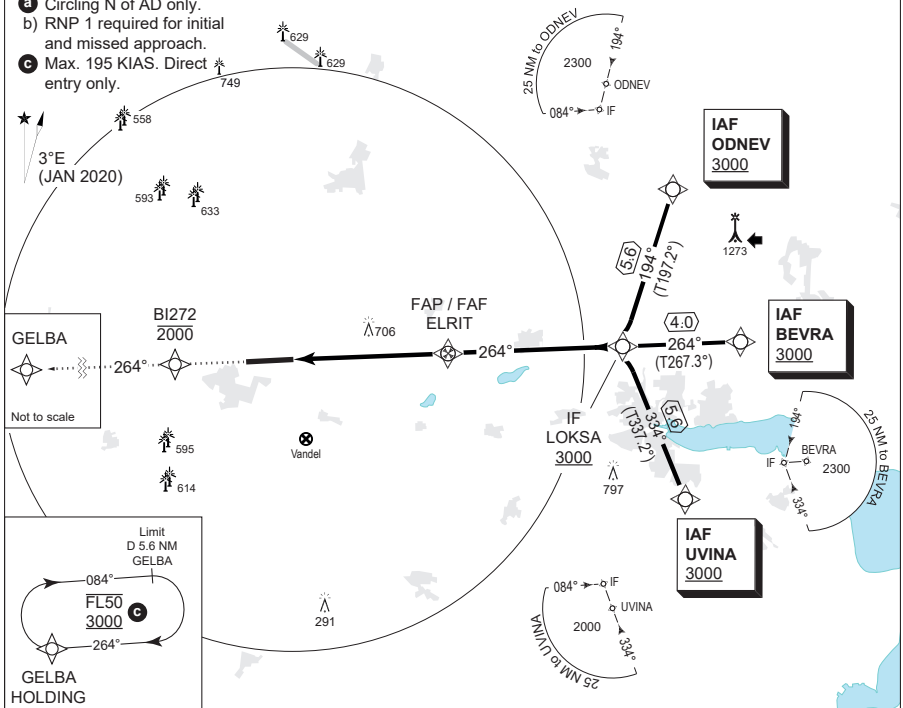
**RNP RWY 27
BILLUND (EKBI)**

COPENHAGEN CONTROL 362.750 136.550	BILLUND ATIS (ARR / DEP) 118.780 129.105	BILLUND APPROACH 127.580	BILLUND TOWER (ARR / DEP) 119.005 129.505
EGNOS CHANNEL 65547 / E27A	APP COURSE 264°	GS INTPC ALT 2000 FT	GS 3.00° DA SEE CAT THR ELEV 244 ALS LENGTH 900 M LDA 9681 FT

NOTE:

- a) Circling N of AD only.
- b) RNP 1 required for initial and missed approach.
- c) Max. 195 KIAS. Direct entry only.

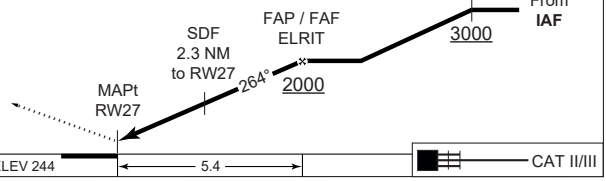
RNP APCH



CDFA: GS 3.00° / 5.2%				
DIST THR	2	3	4	5
ALT	930	1250	1570	1890

TA 3000
GS 3.00°
RDH 49

MISSED APPROACH
Climb straight ahead to 2000 FT.
After passing BI272 continue climb to 3000 FT to GELBA and join the holding.



CATEGORY	A	B	C	D	E
LPV	494 - 600 250 (300-0.8/1.2)				
LNAV/VNAV	630 - 1100 386 (400-1.1/1.8)	640 - 1100 396 (400-1.1/1.8)	650 - 1200 406 (500-1.2/1.9)	660 - 1200 416 (500-1.2/1.9)	680 - 1300 436 (500-1.3/2.0)
LNAV	740 - 1500 493 (500-1.5/2.3)				
CIRCLING	800 - 1.5 553 (600-1.5)	820 - 1.6 573 (600-1.6)	1100 - 2.4 853 (900-2.4)	1100 - 3.6 853 (900-3.6)	1200 - 3.6 953 (1000-3.6)

RNP RWY 27

55°44.42'N
009°09.11'E
3-9

BILLUND (EKBI)

EKBI

CHANGES: LDA ADJUSTED + EDITORIAL.

AIR COMMAND DENMARK - MIL_AIM_18_APR_2024

EKBI RNP RWY 27 waypoint coordinates:

RWY 27 from UVINA (Initial LEFT) APPROACH RNP

		CODING				DISPLAY	
UVINA	IAF	55 39	54.46N	009 34	38.00E	55 39.908N	009 34.633E
LOKSA	IF	55 45	03.55N	009 30	47.65E	55 45.059N	009 30.794E
ELRIT	FAP/FAF	55 44	45.31N	009 20	13.52E	55 44.755N	009 20.225E
RW27	MAPt	55 44	28.20N	009 10	45.60E	55 44.470N	009 10.760E
BI272	MATF	55 44	14.95N	009 03	41.67E	55 44.249N	009 03.693E
GELBA	MAHF	55 43	46.09N	008 49	00.40E	55 43.767N	008 49.000E

RWY 27 from BEVRA (Initial CENTRE) APPROACH RNP

		CODING				DISPLAY	
BEVRA	IAF	55 45	15.24N	009 37	51.87E	55 45.254N	009 37.865E
LOKSA	IF	55 45	03.55N	009 30	47.65E	55 45.059N	009 30.794E
ELRIT	FAP/FAF	55 44	45.31N	009 20	13.52E	55 44.755N	009 20.225E
RW27	MAPt	55 44	28.20N	009 10	45.60E	55 44.470N	009 10.760E
BI272	MATF	55 44	14.95N	009 03	41.67E	55 44.249N	009 03.693E
GELBA	MAHF	55 43	46.09N	008 49	00.40E	55 43.767N	008 49.000E

RWY 27 from ODNEV (Initial RIGHT) APPROACH RNP

		CODING				DISPLAY	
ODNEV	IAF	55 50	23.93N	009 33	43.41E	55 50.399N	009 33.724E
LOKSA	IF	55 45	03.55N	009 30	47.65E	55 45.059N	009 30.794E
ELRIT	FAP/FAF	55 44	45.31N	009 20	13.52E	55 44.755N	009 20.225E
RW27	MAPt	55 44	28.20N	009 10	45.60E	55 44.470N	009 10.760E
BI272	MATF	55 44	14.95N	009 03	41.67E	55 44.249N	009 03.693E
GELBA	MAHF	55 43	46.09N	008 49	00.40E	55 43.767N	008 49.000E

Threshold coordinates RWY 27

		CODING				DISPLAY	
RWY 27		55 44	28.20N	009 10	45.60E	55 44.470N	009 10.760E

BILLUND ARRIVAL

Aircraft will normally be cleared by ACC KØBENHAVN to LOKSA or GELBA.

At first contact with BILLUND APPROACH state type of aircraft.

Speed limit: FL 60 and below: MAX IAS 250KT.

Radio communications failure.

Navigations aids designated for radio communication failure during IMC for arriving aircraft are:

- Fix OSLAS when RWY 09 is expected runway in use, and
- Fix ELRIT when RWY 27 is expected runway in use.

Precision approach. Category II/III operations.

The operations are subject to the following procedures and conditions:

a. ATC procedures.

The minimum distance between an aircraft on final approach on a CAT II / III ILS approach and any other preceding aircraft will for CAT II not be less than 5 NM and for CAT III not less than 8 NM. The separation must be established at the latest when preceding aircraft passes THR. Departing aircraft must have commenced take-off run, before arriving aircraft has left 2000 FT on final approach.

b. Pilot procedures.

Pilots who intend to fly a CAT II / III ILS approach are to use the following phrase: "Request Category II (or III) ILS approach runway XX (mention runway number)" Above mentioned request shall be made to COPENHAGEN CONTROL and confirmed on first contact with BILLUND APPROACH.

c. During final approach ATC will inform the pilot of following:

Change to secondary power supply for electronic and visual aids, if the aircraft has passed OSLAS BIL 5.6 NM for RWY 09 or ELRIT LEL 5.5 NM for RWY 27.

Reverse thrust.

Use of more than idle reverse thrust is allowed only for safety reasons.

Note: With respect to propeller and turboprop aeroplanes idle reverse refers to propeller in beta range and engine at idle power.

DEPARTURE INFORMATION**STANDARD INSTRUMENT DEPARTURE (SID) - RWY 09/27**

Squawk: When instructed for line-up, squawk assigned SSR code.

Communication: Unless otherwise instructed remain on TWR FREQ until passing 1500 FT, then contact BILLUND APPROACH on 127.580 MHZ.

1. IFR DEPARTURE

1.1 Departing traffic shall contact TWR on 129.505 prior to TOBT (Target Off Block Time) in order to obtain ATC clearance. Clearance is available from EOBT -30 min. At initial contact aircraft type and stand number shall be stated. When RWY 09 is in use state preferred take-off position.

1.2 Standard Instrument Departures (SID):

Departing aircraft certified for P-RNAV operations will be assigned a PRNAV SID. Aircraft not certified for P-RNAV operations will be assigned a detailed departure clearance.

Clearance will be issued only when radar service is available.

Alternate SIDs ASKOV and GOKIM will be issued on ATC discretion.

1.3 If unable to follow P-RNAV SID, state inability at first contact with TWR to obtain alternate clearance.

1.4 Climb out for flights not cleared via an SID:

MAX IAS 250 KT FL60 and below.

RWY 09: For jet aeroplanes irrespective of weight and for propeller and turboprop aeroplanes with MTOM above 5700 kg: Climb on track 084° MAG to INLIS or 1000 FT MSL whichever is later, then turn according to clearance. Minimum climb gradient 3.7% until passing 1000 FT MSL.

RWY 09: For propeller and turboprop aeroplanes with MTOM 5700 kg or less: Climb on track 084° MAG to 1000 FT MSL, then turn according to clearance. Minimum climb gradient 3.7% until passing 1000 FT MSL.

RWY 27: All aeroplanes: Climb on track 264° MAG to DME LEL 1.0 NM or 700 FT MSL, whichever is later, then turn according to clearance.

1.5 Aircraft requesting cruising level at or above FL 250 in HANNOVER UIR are advised to arrange the climb to be at or above FL 250 within 45 NM from EKBI. If unable advise BILLUND TOWER upon clearance request.

cont...

STANDARD INSTRUMENT DEPARTURE (SID) - RWY 09/27

1.6 Flight plan for international flights shall be filed via one of the SID termination points (RERPA, INTET, ABINO, RIDSI, ALS, MIKRO or BAMPI).

For BAMPI SID the following compulsory routing after BAMPI shall be included in the flight plan:

- Traffic via P992: BAMPI - P60 - NARBA - P992
- Traffic via P619: BAMPI - P60 - NAVIK - P619
- Traffic via P613: BAMPI - P60 - NUGLO - P613
- Traffic via L983: BAMPI - P60 - AMRAM - L983
- Traffic via N866: BAMPI - P60 - AMRAM - N866

1.7 Flight plan for flights with destination within COPENHAGEN AREA shall be filed via ABINO. Flight plan for other domestic flights may be filed DCT.

STANDARD INSTRUMENT DEPARTURE

Designator	Route (Tracks are magnetic)	After take off		
		Climb gradient	Climb to	Contact
RERPA 2B	On track 084° to 1000 FT - Left turn BI367 - RERPA	MIN due to obstacle: 3.7% (2.1°) to 1000 FT	FL 60 (or requested level if lower).	Remain on TWR FREQ until 1500 FT. Then contact Billund Approach 127.580 MHZ
INTET 2B	On track 084° to 1000FT - Left turn INTET			
ABINO 6B	On track 084° to 1000 FT - Left turn ABINO			
RIDS1 7B	ODFEX - Right turn RIDS1 (No turn below 2000 FT)			
ALS 6B	ODFEX - Right turn ALS (No turn below 2000 FT)			
MIKRO 5B	ODFEX - Right turn MIKRO (No turn below 2000 FT)			
BAMPI 5B	On track 084° to 1000 FT - Left turn BI373 - BI372 - BAMPI			
GOKIM 4B*	ODFEX at 2000 FT or below - GOKIM		FL 80 (or req. level if lower)	

P-RNAV, RNAV 1, RNAV 2 or RNP 1 required

Squawk: When instructed for line-up, squawk assigned SSR-code.

Radar Vectoring: Radar vectoring will normally be provided by BILLUND APPROACH to expedite traffic.

Speed limit: FL 60 and below: MAX IAS 250 KT.

COM failure on BAMPI SID: Maintain FL60 or last assigned level until 10 NM after BAMPI.

Non P-RNAV equipped acft: At first contact with TWR state inability to follow SID.

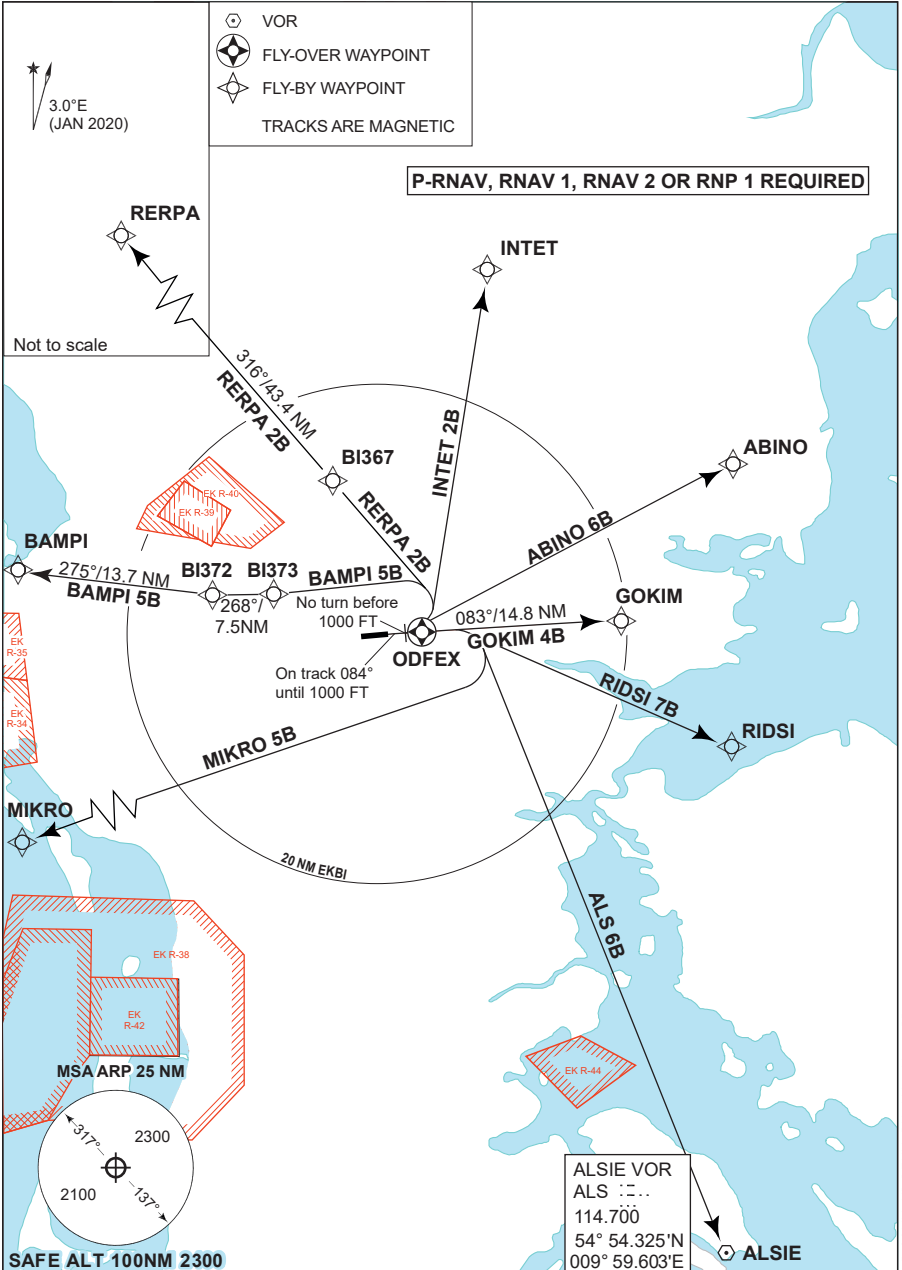
Expect departure instructions by TWR.

Note: Noise limitations listed in AIP Denmark, chapter 21 "Noise Abatement Provisions", paragraph 2.2.

RMK: * GOKIM 4B SID is not flightplannable but only available on ATC discretion.

Waypoint	Latitude	Longitude
ABINO	55° 58.100'N	009° 59.667'E
BAMPI	55° 50.574'N	008° 16.177'E
BI367	55° 56.384'N	009° 02.976'E
BI372	55° 48.638'N	008° 40.192'E
BI373	55° 48.540'N	008° 53.524'E
ODFEX	55° 44.622'N	009° 15.743'E
GOKIM	55° 45.527'N	009° 41.977'E
INTET	56° 13.578'N	009° 24.685'E
MIKRO	55° 24.905'N	008° 09.983'E
RERPA	56° 28.700'N	008° 11.250'E
RIDS1	55° 35.500'N	009° 59.650'E

STANDARD INSTRUMENT DEPARTURE CHART



CHANGES: SAFE ALT., EDITORIAL.

AIR COMMAND DENMARK - MIL-AIM 18 APR 2024

SID (P-RNAV) RWY 09

BILLUND (EKBI)



STANDARD INSTRUMENT DEPARTURE

Designator	Route (Tracks are magnetic)	After take-off		
		Remark	Climb to	Contact
RERPA 2A	On track 264° to 700 FT - right turn BI367 - RERPA	No turn before DME LEL 1.0 NM	FL 60 (or requested level if lower)	Remain on TWR FREQ until 1500 FT. Then contact Billund Approach, 127.580 MHZ
INTET 2A	On track 264° to 700 FT - right turn BI367 - INTET			
ABINO 6A	On track 264° to 700 FT - right turn BI364 - ABINO			
RIDS1 6A	On track 264° to 700 FT - right turn BI364 - RIDS1			
ALS 6A	On track 264° to 700 FT - right turn BI371 - left turn ALS			
MIKRO 5A	On track 264° to 700 FT - right turn BI371 - left turn MIKRO			
BAMPI 5A	On track 264° to 700 FT - right turn BI371 - left turn BI372 - BAMPI			
ASKOV 4A*	On track 264° to 700 FT - right turn BI371 at 2000 FT or below - left turn ASKOV		FL 80 (or req. level if lower)	

P-RNAV, RNAV 1, RNAV 2 or RNP 1 required

Squawk: When instructed for line-up, squawk assigned SSR-code.

Radar Vectoring: Radar vectoring will normally be provided by BILLUND APPROACH to expedite traffic.

Speed limit: FL 60 and below: MAX IAS 250 KT.

COM failure on BAMPI SID: Maintain FL60 or last assigned level until 10 NM after BAMPI.

Non P-RNAV equipped acft: At first contact with TWR state inability to follow SID.

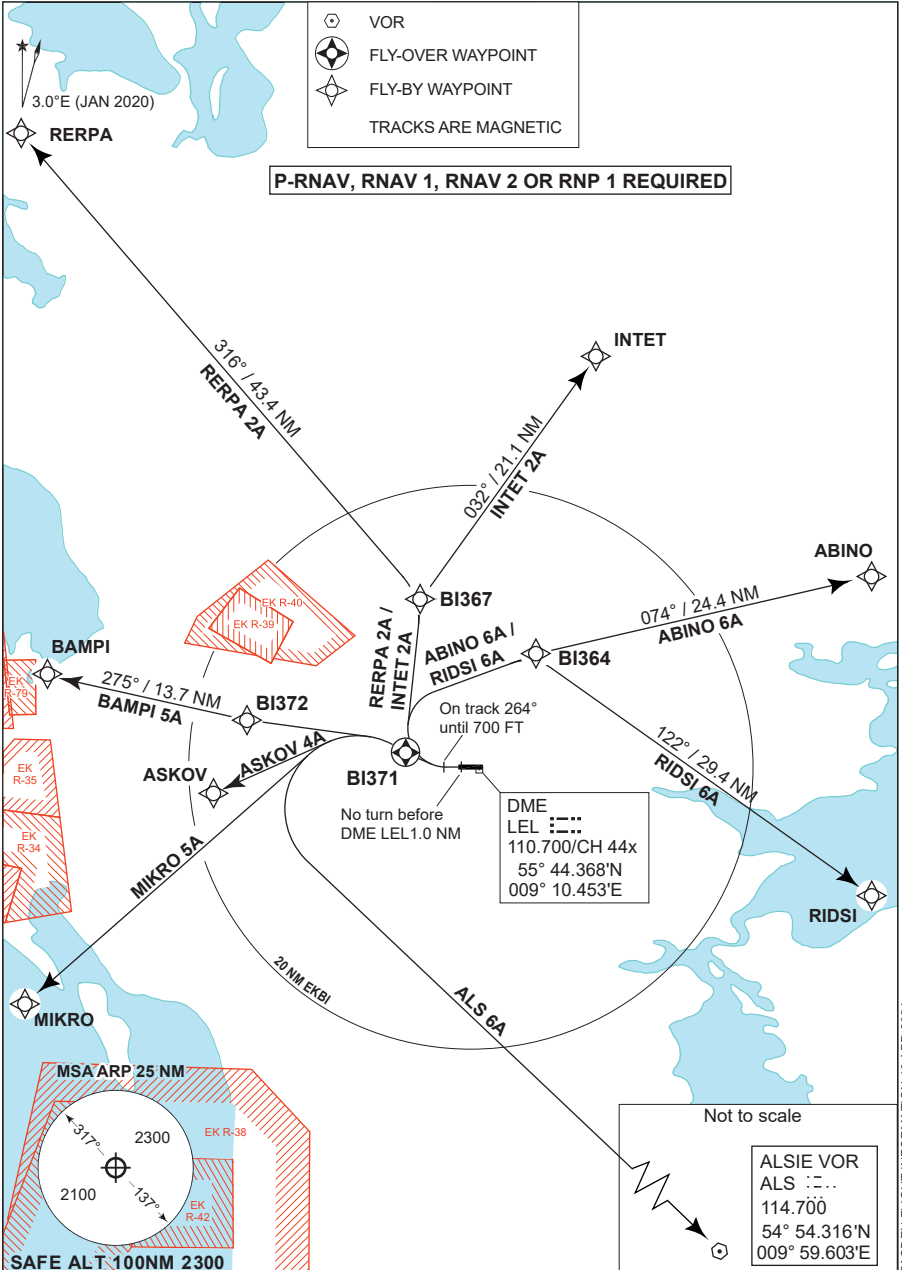
Expect departure instructions by TWR.

Note: Noise limitations listed in AIP Denmark, chapter 21 "Noise Abatement Provisions", paragraph 2.2.

RMK: * ASKOV 4A SID is not flightplanable but only available on ATC discretion.

Waypoint	Latitude	Longitude
ABINO	55° 58.100'N	009° 59.667'E
ASKOV	55° 42.393'N	008° 37.257'E
BAMPI	55° 50.574'N	008° 16.177'E
BI364	55° 52.612'N	009° 17.499'E
BI367	55° 56.385'N	009° 02.977'E
BI371	55° 47.228'N	009° 00.712'E
BI372	55° 48.644'N	008° 40.192'E
INTET	56° 13.578'N	009° 24.685'E
MIKRO	55° 24.905'N	008° 09.983'E
RERPA	56° 28.700'N	008° 11.250'E
RIDS1	55° 35.500'N	009° 59.650'E

STANDARD INSTRUMENT DEPARTURE CHART



SID (P-RNAV) RWY 27

BILLUND (EKBI)

CHANGES: EDITORIAL.

TACDEN FLIGHT INFORMATION 18 APR 2024

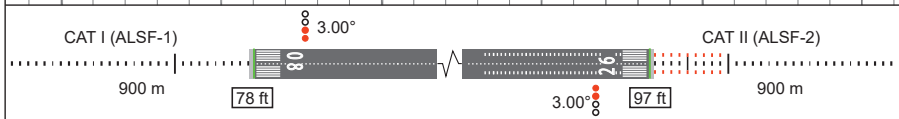
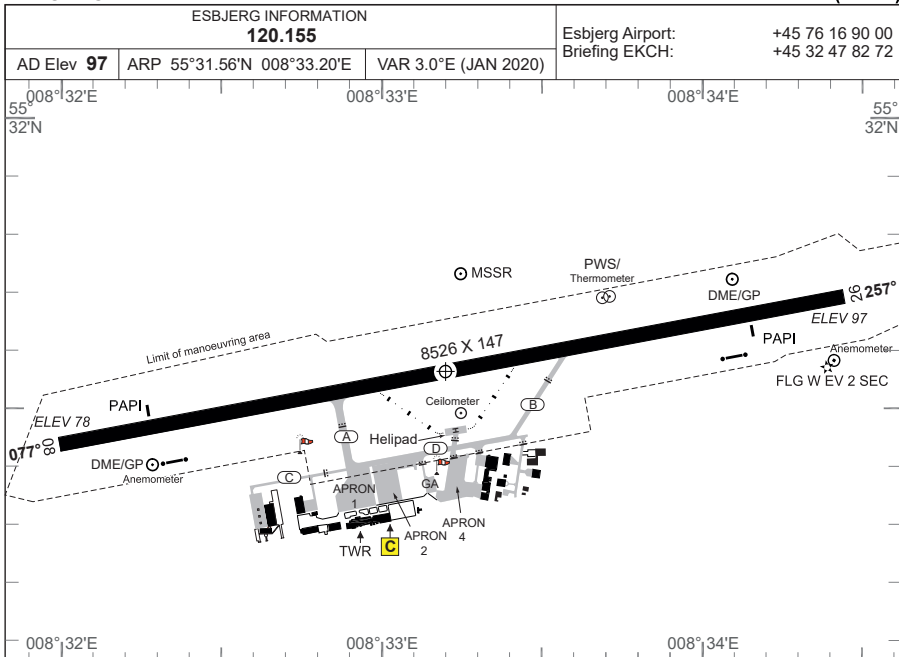
INTENTIONALLY

LEFT

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AERODROME CHART

ESBJERG (EKEB)



RWY	PCN	DECLARED DISTANCES					THR ELEV	RWY LIGHTING					THR PSN	
		PSN	TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE/END		
08	60 F/A/W/T		8526	8526	8526	8526	79	LIH	3.00°		LIH	LIH	LIH	55°31.43'N 008°32.01'E
		A	5479	5479	5479									
		B	3021	3021	3021									
26	60 F/A/W/T		8526	8526	8526	8526	97	LIH	3.00°	LIH	LIH	LIH	LIH	55°31.69'N 008°34.44'E
		B	5410	5410	5410									
		A	2969	2969	2969									

Parachuting may take place.

Flight procedures:

- Aircraft will normally be cleared by ACC Copenhagen to HP HLDG or EJ HLDG.
- Navigation aid designated for radio communication failure during IMC is:
NDB HP when RWY 08 is expected runway in use.
NDB EJ when RWY 26 is expected runway in use.
- Omnidirectional departures:
RWY 08/26: Climb straight ahead to at least 500 FT AMSL before turn is commenced.

MIPS	CIRCLING MINIMA (Cat. C - E north of AD only)								
	A	B	C	D	E				
510	-1.5 413 (500-1.5)	600	-1.6 503 (600-1.6)	710	-2.4 613 (700-2.4)	800	-3.6 703 (800-3.6)	900	-3.6 803 (900-3.6)

AERODROME CHART

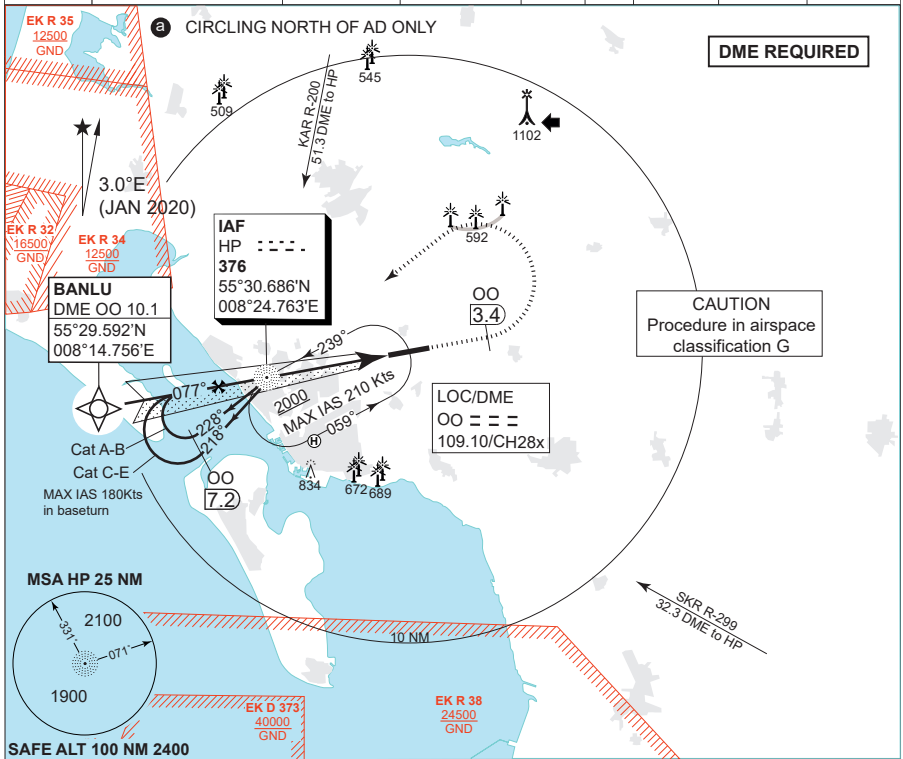
ESBJERG (EKEB)

MIPS INSTRUMENT APPROACH CHART

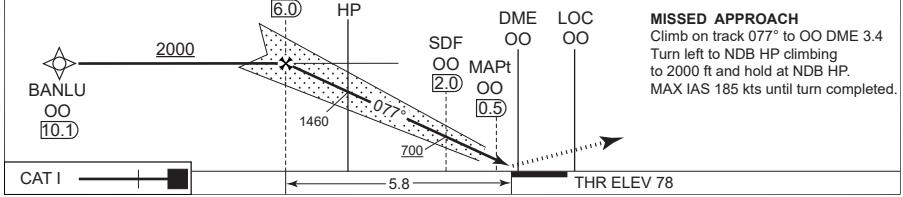
**ILS or LOC Z RWY 08
ESBJERG (EKEB)**

AD ELEV 97

COPENHAGEN CONTROL 362.750 136.555		BILLUND ATIS 118.780		BILLUND APPROACH 127.580			ESBJERG INFORMATION 120.155		
NDB HP 376	LOC/DME OO 109.10/CH28x	APP COURSE 077°	GS INTCP ALT 2000 FT	GS 3.00°	DA 278	THR ELEV 78	ALS length 900 M	LDA 8526 FT	



TA 3000 GS 3.0° RDH 49	LOC ONLY (CDF 3.0° / 5.24%)				
	DME OO (NM)	5	4	3	2
	DIST TO THR (NM)	4.8	3.8	2.8	1.8
	ALT	1670	1360	1040	720



MIPS	CATEGORY	A	B	C	D	E
	S-ILS/DME				278 -550 200 (200-0.8/1.2)	
S-LOC/DME				460 -1100 382 (400-1.1/1.8)		
CIRCLING	510 -1.5 413 (500-1.5)	600 -1.6 503 (600-1.6)	700 -2.4 603 (700-2.4)	990 -3.6 893 (900-3.6)	1090 -3.6 993 (1000-3.6)	

ILS or LOC Z RWY 08

55°31.56'N
008°33.20'E

ESBJERG (EKEB)

CHANGES EDITORIAL

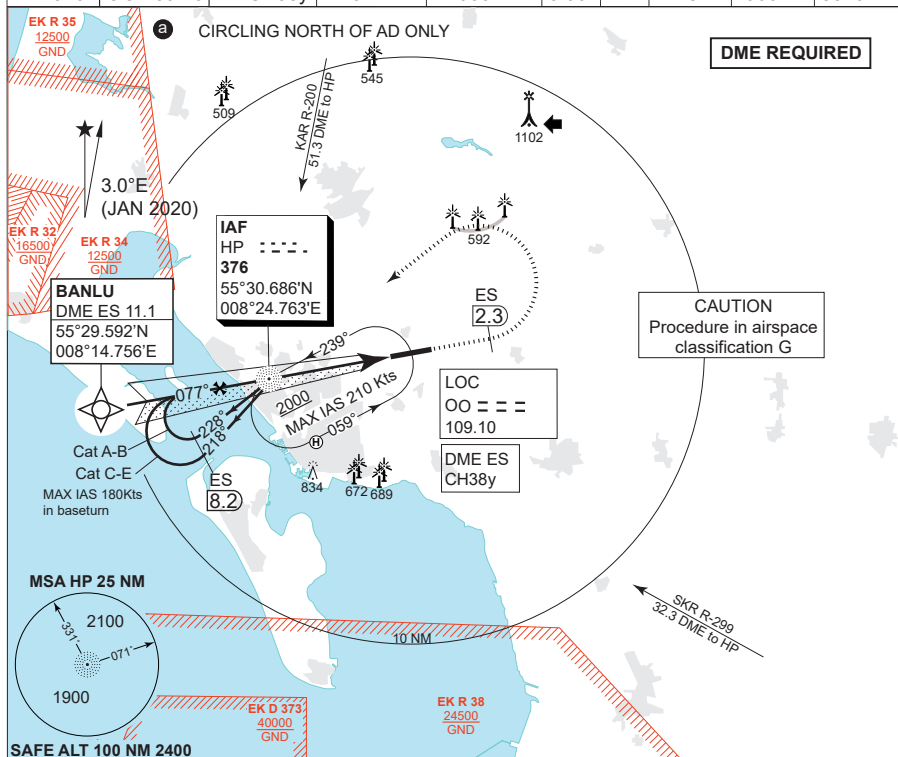
AIR COMMAND DENMARK - MIL A/M 22 FEB 2024

MIPS
INSTRUMENT APPROACH CHART

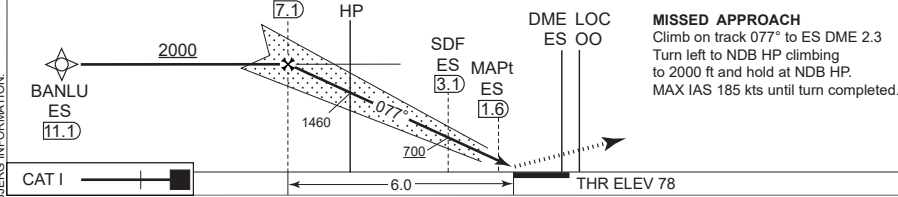
ILS or LOC Y RWY 08
ESBJERG (EKEB)

AD ELEV 97

COPENHAGEN CONTROL 362.750 136.555		BILLUND ATIS 118.780		BILLUND APPROACH 127.580			ESBJERG INFORMATION 120.155		
NDB HP 376	LOC OO 109.10	DME ES CH38y	APP COURSE 077°	GS INTCP ALT 2000 FT	GS 3.00°	DA 278	THR ELEV 78	ALS length 900 M	LDA 8526 FT



TA 3000 GS 3.0° RDH 49	LOC ONLY (CDF 3.0° / 5.24%)				
	DME ES (NM)	6	5	4	3
	DIST TO THR (NM)	4.8	3.8	2.8	1.8
	ALT	1650	1340	1020	700



MIPS	CATEGORY	A	B	C	D	E
	S-ILS/DME	278 -550 200 (200-0.8/1.2)				
S-LOC/DME	460 -1100 382 (400-1.1/1.8)					
CIRCLING	510 -1.5 413 (500-1.5)	600 -1.6 503 (600-1.6)	700 -2.4 603 (700-2.4)	990 -3.6 893 (900-3.6)	1090 -3.6 993 (1000-3.6)	

ILS or LOC Y RWY 08

55°31.56'N
008°33.20'E

ESBJERG (EKEB)

4-3

EKEB

CHANGES: FREQ CHG ESBJERG INFORMATION

AIR COMMAND DENMARK - MIL AIR 02 NOV 2023

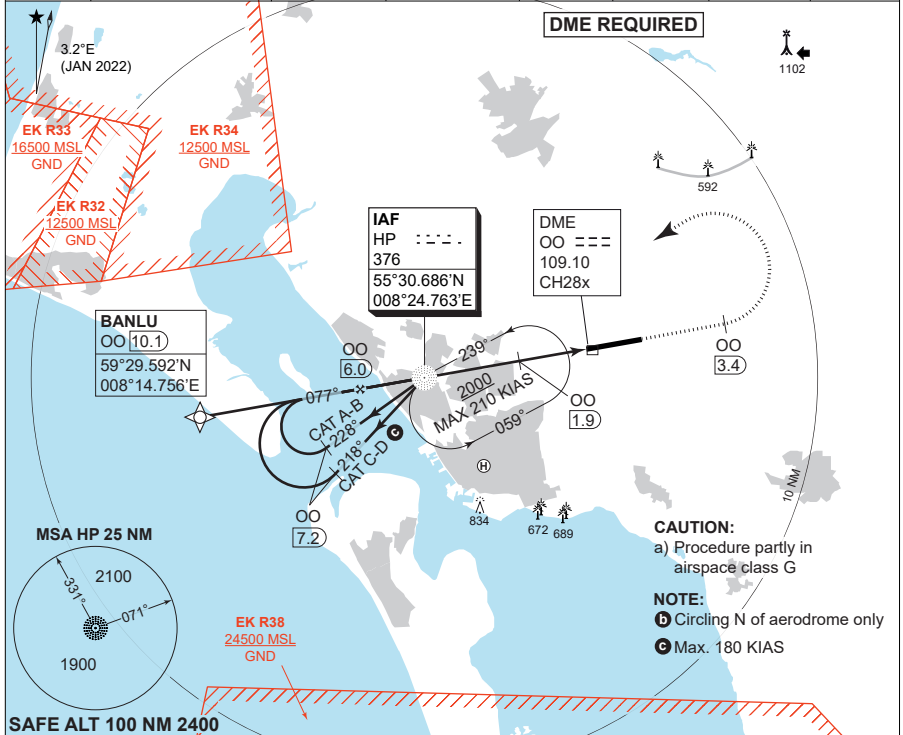
MIPS

INSTRUMENT APPROACH CHART

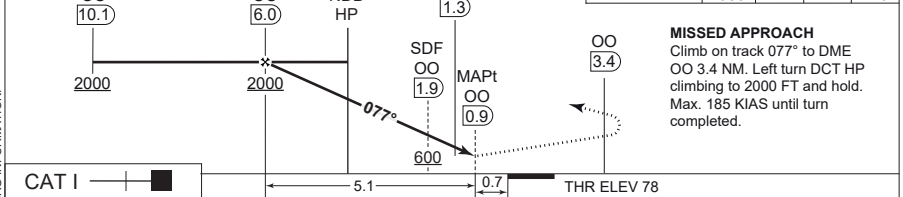
AD ELEV 97

NDB Z RWY 08
ESBJERG (EKEB)

COPENHAGEN CONTROL 362.750 136.555		BILLUND ATIS 118.780		BILLUND APPROACH 127.580		ESBJERG INFORMATION 120.155	
NDB HP 376	DME OO 109.10 / CH28x	APP COURSE 077°	DESCENT GR 3.0° (5.24%)	MINIMA 490	THR ELEV 78 FT	ALS LENGTH 900 M	LDA 8526 FT



TA 3000	CDFA 3.00' / 5.24%				
	DME OO	5	4	3	2
	DIST TO THR	4.8	3.8	2.8	1.8
	ALT	1680	1360	1040	720



CATEGORY	A	B	C	D
S-NDB 08	490 - 1200 412 (500-1.2/1.9)			
CIRCLING	540 - 1.5 443 (500-1.5)	600 - 1.6 503 (600-1.6)	840 - 2.4 743 (800-2.4) ^b	990 - 3.6 893 (900-3.6) ^b

NDB Z RWY 08

55°31.56'N
008°33.20'E

ESBJERG (EKEB)

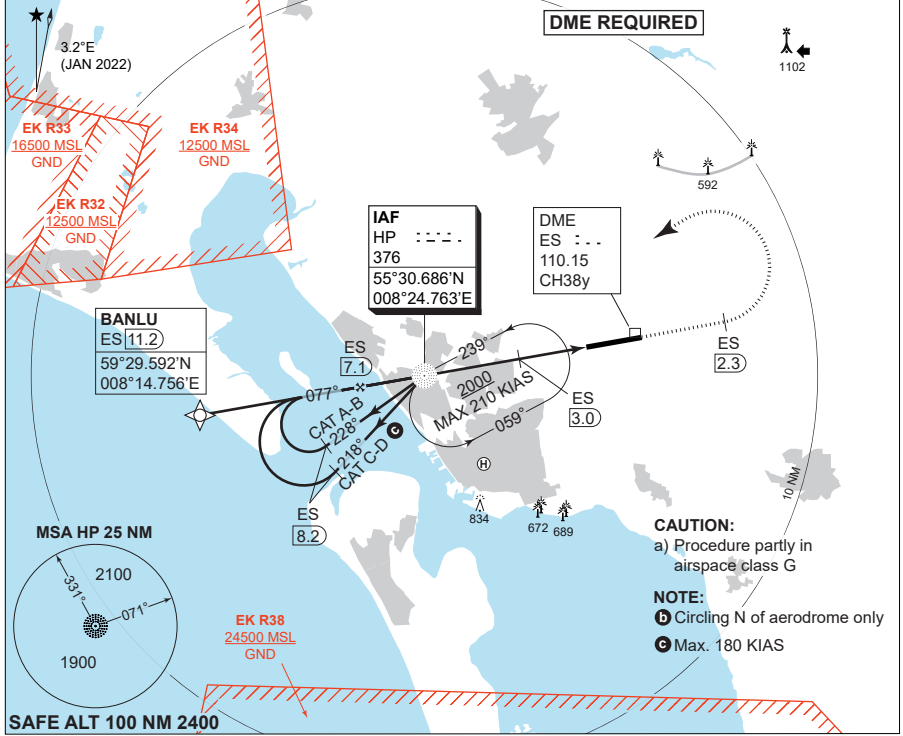
MIPS

INSTRUMENT APPROACH CHART

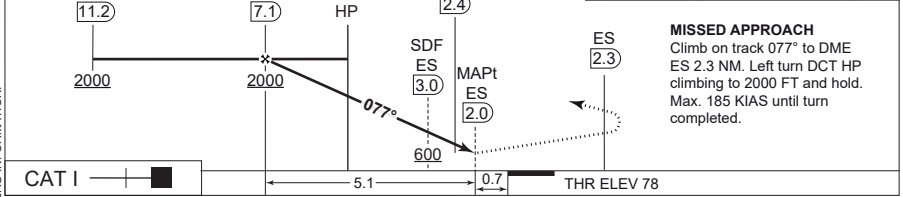
AD ELEV 97

**NDB Y RWY 08
ESBJERG (EKEB)**

COPENHAGEN CONTROL 362.750 136.555		BILLUND ATIS 118.780	BILLUND APPROACH 127.580		ESBJERG INFORMATION 120.155		
NDB HP 376	DME ES 110.15 / CH38y	APP COURSE 077°	DESCENT GR 3.0° (5.24%)	MINIMA 490	THR ELEV 78 FT	ALS LENGTH 900 M	LDA 8526 FT



TA 3000	CDFA 3.00° / 5.24%				
	DME ES	6	5	4	3
	DIST TO THR	4.8	3.8	2.8	1.8
ALT	1660	1340	1020	700	



CATEGORY	A	B	C	D
S-NDB 08	490 - 1200 412 (500-1.2/1.9)			
CIRCLING	540 - 1.5 443 (500-1.5)	600 - 1.6 503 (600-1.6)	840 - 2.4 743 (800-2.4) (b)	990 - 3.6 893 (900-3.6) (b)

NDB Y RWY 08

55°31.56'N
008°33.20'E

ESBJERG (EKEB)

4-5

EKEB

CHANGES: FREQ CHG ESBJERG INFORMATION

AIR COMMAND DENMARK - MIL-AIM 02 NOV 2023

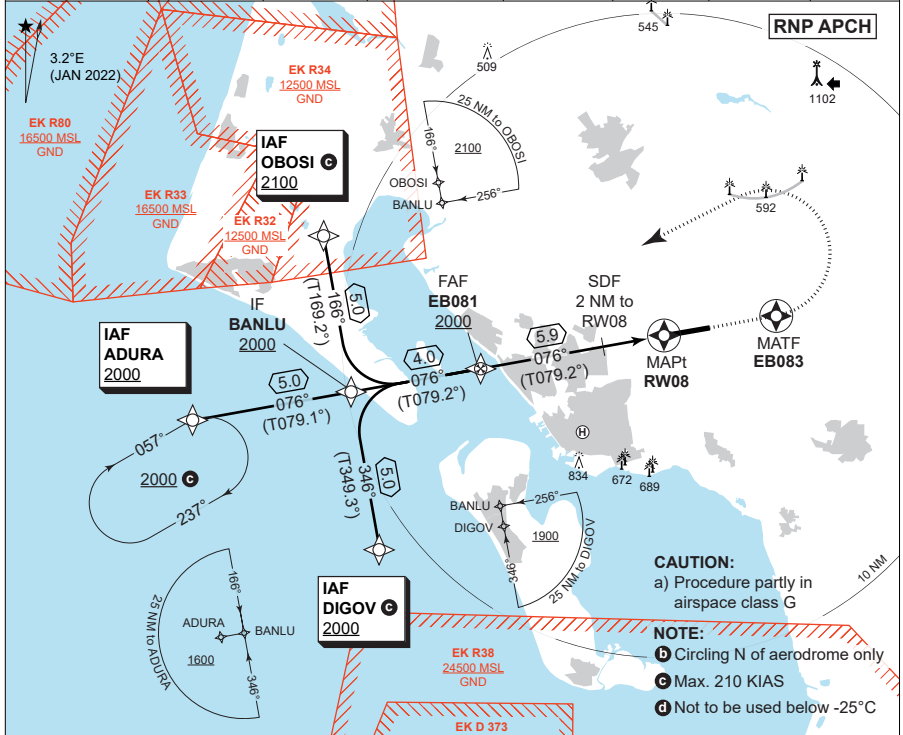
MIPS

INSTRUMENT APPROACH CHART

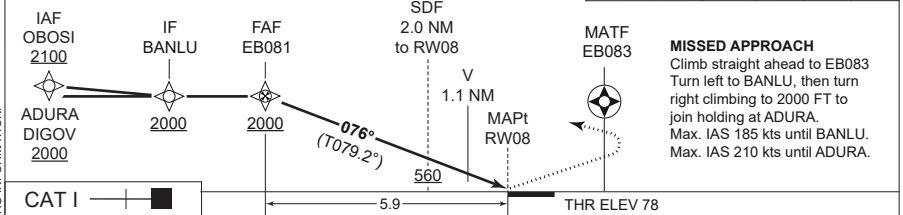
AD ELEV 97

RNP RWY 08
ESBJERG (EKEB)

COPENHAGEN CONTROL 362.750 136.555		BILLUND ATIS 118.780		BILLUND APPROACH 127.580		ESBJERG INFORMATION 120.155	
EGNOS CHANNEL 56064 / E08A		APP COURSE 076°		FAF ALT 2000 FT		DESCENT GR 3.0° (5.24%)	
				MINIMA See CAT		THR ELEV 78 FT	
						ALS LENGTH 900 M	
						LDA 8526 FT	



TA 3000	CDFA 3.00° / 5.24%				
	Dist to RW08	5	4	3	2
	ALT	1720	1410	1090	770



CATEGORY	CDFA 3.00° / 5.24%			
	A	B	C	D
LPV	278 - 550 200 (200-0.8/1.2)			
LNAV / VNAV d	490 - 1200 412 (500-1.2/1.9)			
LNAV	490 - 1200 412 (500-1.2/1.9)			
CIRCLING	540 - 1.5 443 (500-1.5)	600 - 1.6 503 (600-1.6)	840 - 2.4 743 (800-2.4)	990 - 3.6 893 (900-3.6) b

RNP RWY 08

ESBJERG (EKEB)

55°31.56'N
008°33.20'E
4-6

CHANGES: FREQ CHG ESBJERG INFORMATION

AIR COMMAND DENMARK - MIL A/M 02 NOV 2023

EKEB RNP RWY 08 waypoint coordinates:

RWY 08 from OBOSI (Initial LEFT) APPROACH RNP

		CODING				DISPLAY	
OBOSI	IAF	55 34	29.75N	008 13	06.68E	55 34.496N	008 13.111E
BANLU	IF	55 29	35.49N	008 14	45.37E	55 29.592N	008 14.756E
EB081	FAF	55 30	21.11N	008 21	50.36E	55 30.352N	008 21.839E
RW08	MAPt	55 31	25.84N	008 32	00.56E	55 31.431N	008 32.009E
EB083	MATF	55 32	04.31N	008 38	07.31E	55 32.072N	008 38.122E
ADURA	MAHF	55 28	39.28N	008 06	07.24E	55 28.655N	008 06.121E

RWY 08 from ADURA (Initial STRAIGHT) APPROACH RNP

		CODING				DISPLAY	
ADURA	IAF	55 28	39.28N	008 06	07.24E	55 28.655N	008 06.121E
BANLU	IF	55 29	35.49N	008 14	45.37E	55 29.592N	008 14.756E
EB081	FAF	55 30	21.11N	008 21	50.36E	55 30.352N	008 21.839E
RW08	MAPt	55 31	25.84N	008 32	00.56E	55 31.431N	008 32.009E
EB083	MATF	55 32	04.31N	008 38	07.31E	55 32.072N	008 38.122E

RWY 08 from DIGOV (Initial RIGHT) APPROACH RNP

		CODING				DISPLAY	
DIGOV	IAF	55 24	41.20N	008 16	23.63E	55 24.687N	008 16.394E
BANLU	IF	55 29	35.49N	008 14	45.37E	55 29.592N	008 14.756E
EB081	FAF	55 30	21.11N	008 21	50.36E	55 30.352N	008 21.839E
RW08	MAPt	55 31	25.84N	008 32	00.56E	55 31.431N	008 32.009E
EB083	MATF	55 32	04.31N	008 38	07.31E	55 32.072N	008 38.122E
ADURA	MAHF	55 28	39.28N	008 06	07.24E	55 28.655N	008 06.121E

Threshold coordinates RWY 08

		CODING				DISPLAY	
RWY 08		55 31	25.84N	008 32	00.56E	55 31.431N	008 32.009E

CHANGES: PROCEDURE RENAMED RNP

AIR COMMAND DENMARK - MIL- AIM 26 JAN 2023

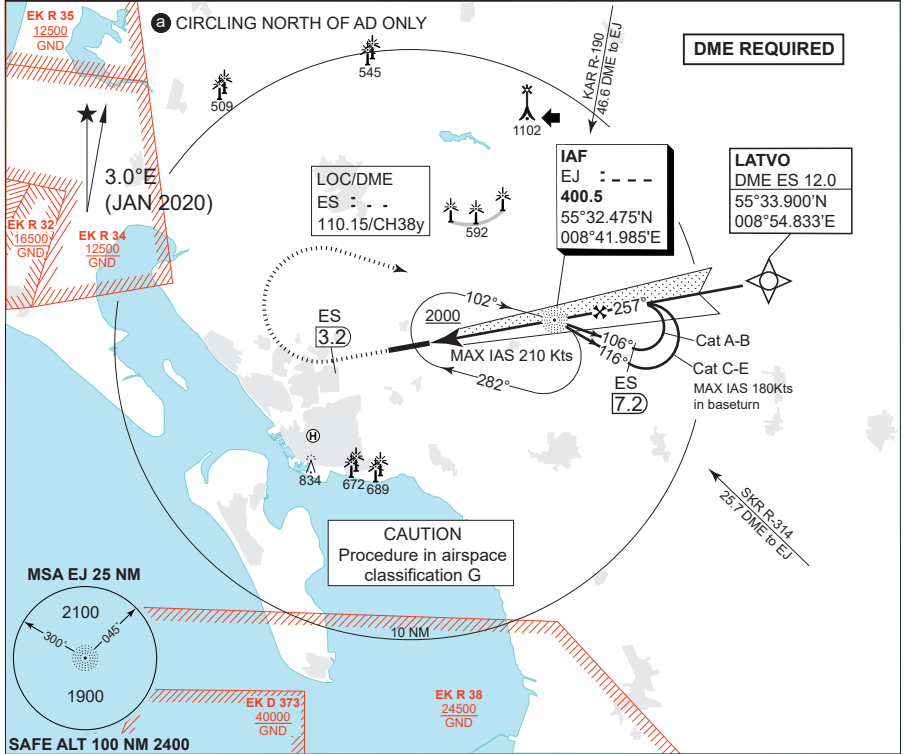
MIPS

INSTRUMENT APPROACH CHART

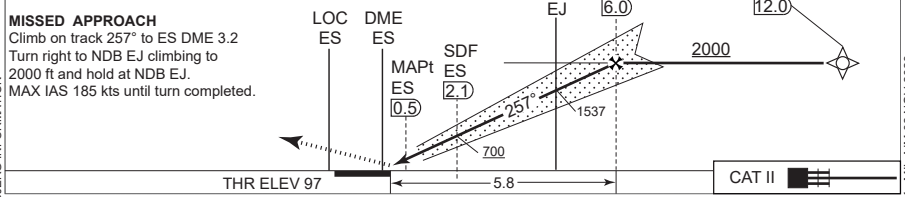
AD ELEV 97

ILS or LOC Z RWY 26
ESBJERG (EKEB)

COPENHAGEN CONTROL 362.750 136.555		BILLUND ATIS 118.780		BILLUND APPROACH 127.580			ESBJERG INFORMATION 120.155	
NDB EJ 400.5	LOC / DME ES 110.150/CH 38y	APP COURSE 257°	GS INTCP ALT 2000 FT	GS 3.00°	DA 297	THR ELEV 97	ALS length 900 M	LDA 8526 FT



LOC ONLY (CDFA 3.0° / 5.24%)					TA 3000 GS 3.0° RDH 51
DME ES (NM)	2	3	4	5	
DIST TO THR (NM)	1.8	2.8	3.8	4.8	
ALT	730	1040	1360	1680	



MIPS	CATEGORY	A	B	C	D	E
	S-ILS/DME			297	-550 200 (200-0.8/1.2)	
	S-LOC/DME			460	-1000 363 (400-1.0/1.7)	
	CIRCLING	510	-1.5 413 (500-1.5)	600	-1.6 503 (600-1.6)	700
				700	-2.4 603 (700-2.4)	990
					990	-3.6 893 (900-3.6)
						1090
						-3.6 993 (1000-3.6)

ILS or LOC Z RWY 26

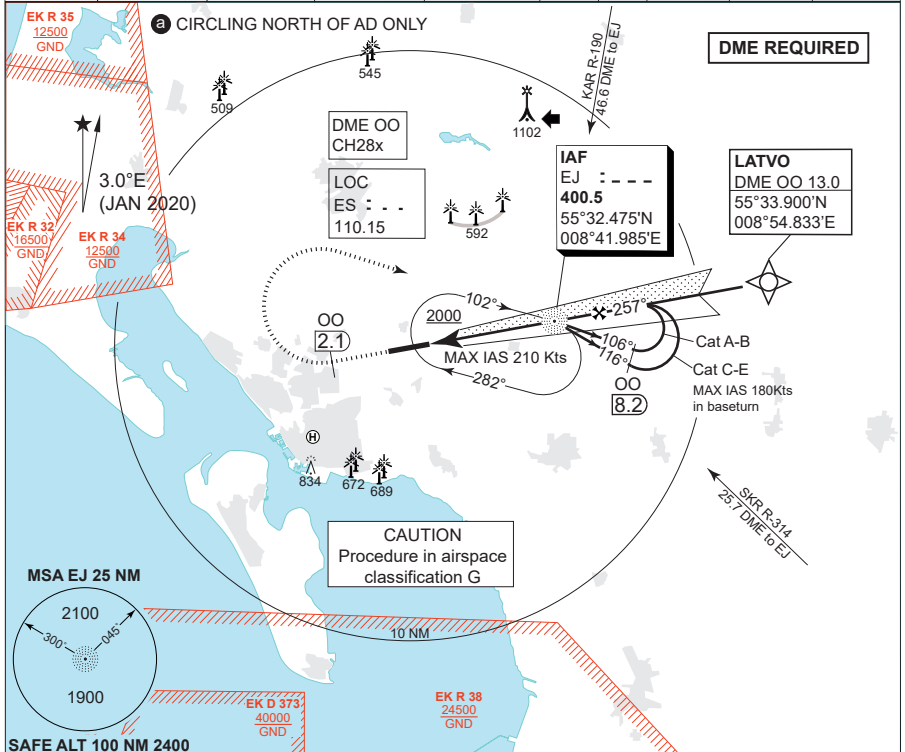
55°31.56'N
008°33.20'E

ESBJERG (EKEB)

MIPS INSTRUMENT APPROACH CHART

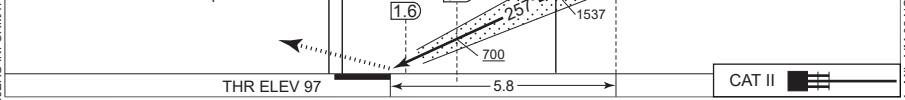
**ILS or LOC Y RWY 26
ESBJERG (EKEB)**

COPENHAGEN CONTROL 362.750 136.555		BILLUND ATIS 118.780		BILLUND APPROACH 127.580		ESBJERG INFORMATION 120.155			
NDB EJ 400.5	LOC ES 110.15	DME OO CH28x	APP COURSE 257°	GS INTCP ALT 2000 FT	GS 3.00°	DA 297	THR ELEV 97	ALS length 900 M	LDA 8526 FT



LOC ONLY (CDFA 3.0° / 5.24%)				TA 3000 GS 3.0° RDH 51	
DME OO (NM)	3	4	5		6
DIST TO THR (NM)	1.8	2.8	3.8		4.8
ALT	710	1030	1350	1660	

MISSED APPROACH
Climb on track 257° to OO DME 2.1
Turn right to NDB EJ climbing to 2000 ft and hold at NDB EJ.
MAX IAS 185 kts until turn completed.



MIPS	CATEGORY	A	B	C	D	E					
S-ILS/DME				297	-550 200 (200-0.8/1.2)						
S-LOC/DME				460	-1000 363 (400-1.0/1.7)						
CIRCLING		510	-1.5 413 (500-1.5)	600	-1.6 503 (600-1.6)	700	-2.4 603 (700-2.4)	990	-3.6 893 (900-3.6)	1090	-3.6 993 (1000-3.6)

ILS or LOC Y RWY 26 **ESBJERG (EKEB)**

55°31.56'N
008°33.20'E

4-9



CHANGES: FREQ CHG ESBJERG INFORMATION.

AIR COMMAND DENMARK - MIL-AIM 02 NOV 2023

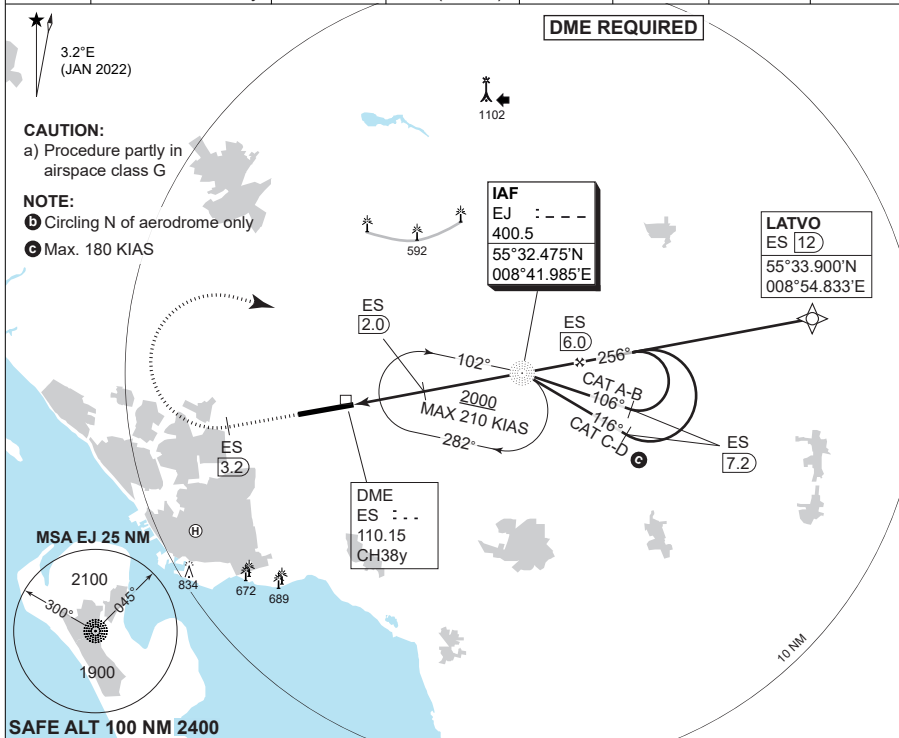
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 97

**NDB Z RWY 26
ESBJERG (EKEB)**

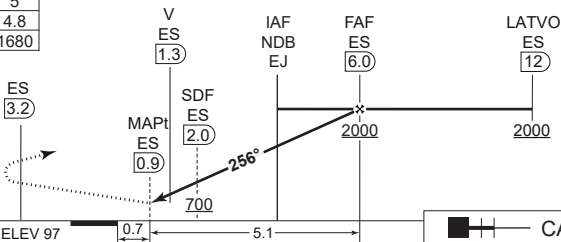
COPENHAGEN CONTROL 362.750 136.555		BILLUND ATIS 118.780	BILLUND APPROACH 127.580		ESBJERG INFORMATION 120.155		
NDB EJ 400.5	DME ES 110.15 / CH38y	APP COURSE 256°	DESCENT GR 3.0° (5.24%)	MINIMA 490	THR ELEV 97 FT	ALS LENGTH 900 M	LDA 8526 FT



CDFA 3.00° / 5.24%				
DME ES	2	3	4	5
DIST TO THR	1.8	2.8	3.8	4.8
ALT	730	1050	1370	1680

TA 3000

MISSED APPROACH
Climb on track 256° to DME ES 3.2 NM. Right turn DCT EJ climbing to 2000 FT and hold. Max. 185 KIAS until turn completed.



CATEGORY	A	B	C	D
S-NDB 26	490 - 1100 393 (400-1.1/1.8)			
CIRCLING	540 - 1.5 443 (500-1.5)	600 - 1.6 503 (600-1.6)	840 - 2.4 743 (800-2.4) b	990 - 3.6 893 (900-3.6) b

NDB Z RWY 26

55°31.56'N
008°33.20'E

ESBJERG (EKEB)

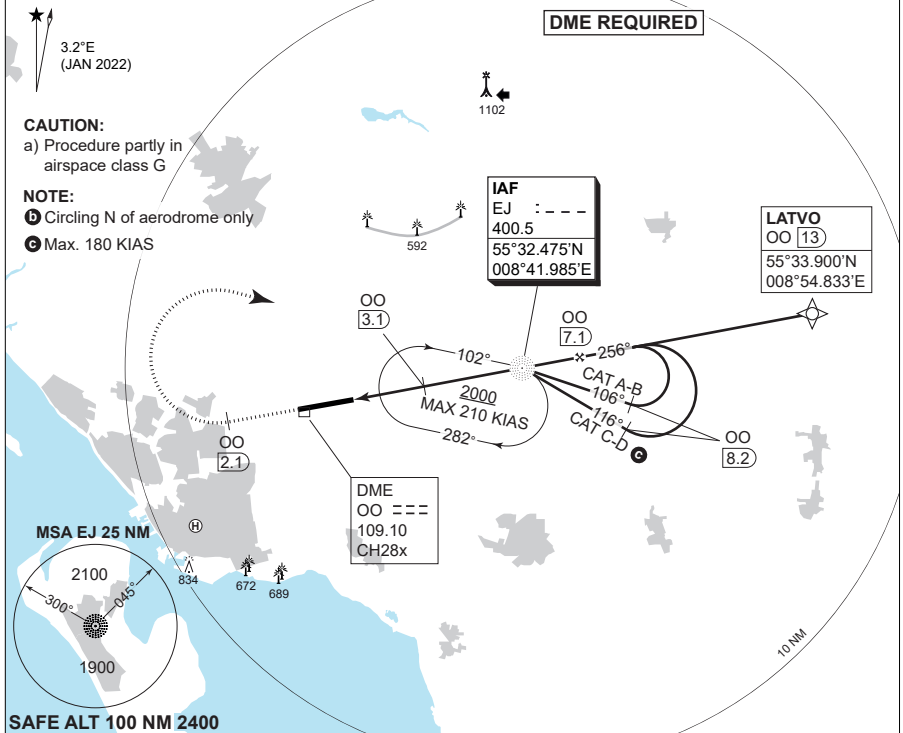
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 97

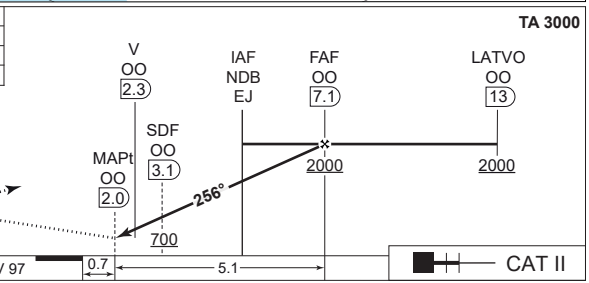
**NDB Y RWY 26
ESBJERG (EKEB)**

COPENHAGEN CONTROL 362.750 136.555		BILLUND ATIS 118.780	BILLUND APPROACH 127.580		ESBJERG INFORMATION 120.155		
NDB EJ 400.5	DME OO 109.10 / CH28x	APP COURSE 256°	DESCENT GR 3.0° (5.24%)	MINIMA 490	THR ELEV 97 FT	ALS LENGTH 900 M	LDA 8526 FT



SAFE ALT 100 NM 2400

CDFA 3.00' / 5.24%					
DME OO	3	4	5	6	
DIST THR	1.8	2.8	3.8	4.8	
ALT	710	1030	1350	1660	



MISSED APPROACH
Climb on track 256° to DME OO 2.1 NM. Right turn DCT EJ climbing to 2000 FT and hold. Max. 185 KIAS until turn completed.

CATEGORY	A	B	C	D
S-NDB	490 - 1100 393 (400-1.1/1.8)			
CIRCLING	540 - 1.5 443 (500-1.5)	600 - 1.6 503 (600-1.6)	840 - 2.4 743 (800-2.4) b	990 - 3.6 893 (900-3.6) b

NDB Y RWY 26

55°31.56'N
008°33.20'E
4-11

ESBJERG (EKEB)

EKEB

CHANGES: FREO CHG ESBJERG INFORMATION

AIR COMMAND DENMARK - MIL-AIM 02 NOV 2023

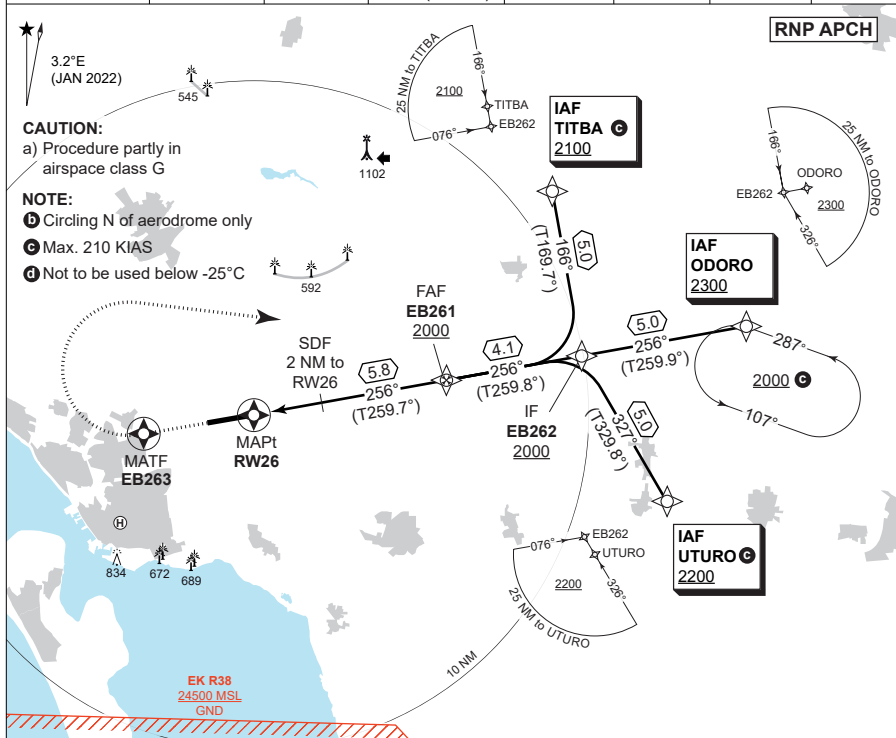
MIPS

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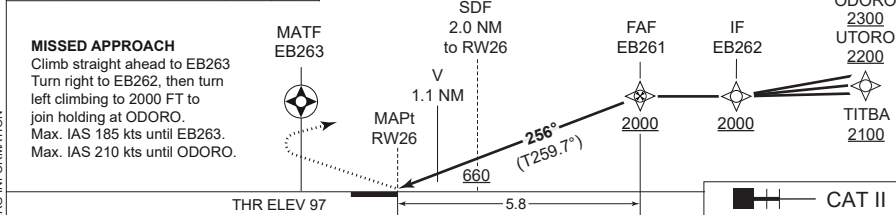
AD ELEV 97

**RNP RWY 26
ESBJERG (EKEB)**

COPENHAGEN CONTROL 362.750 136.555		BILLUND ATIS 118.780		BILLUND APPROACH 127.580		ESBJERG INFORMATION 120.155	
EGNOS CHANNEL 59258 / E26A	APP COURSE 256°	FAF ALT 2000 FT	DESCENT GR 3.0° (5.24%)	MINIMA See CAT	THR ELEV 97 FT	ALS LENGTH 900 M	LDA 8526 FT



CDFA 3.00° / 5.24%				
Dist to RW26	2	3	4	5
ALT	790	1110	1420	1740



THR ELEV 97		5.8		CAT II	
TA 3000	IAF ODORO 2300	UTURO 2200	TITBA 2100		
CATEGORY	A	B	C	D	
LPV	297 - 550 200 (200-0.8/1.2)				
LNAV / VNAV d	490 - 1100 393 (500-1.1/1.8)				
LNAV	490 - 1100 393 (500-1.1/1.8)				
CIRCLING	540 - 1.5 443 (500-1.5)	600 - 1.6 503 (600-1.6)	840 - 2.4 743 (800-2.4)	990 - 3.6 893 (900-3.6)	b

RNP RWY 26

ESBJERG (EKEB)

55°31.56'N
008°33.20'E
4-12

CHANGES: FREO CHG ESBJERG INFORMATION

AIR COMMAND DENMARK - MIL-AIM 02 NOV 2023

EKEB RNP RWY 26 waypoint coordinates:

RWY 26 from TITBA (Initial RIGHT) APPROACH RNP

		CODING				DISPLAY	
TITBA	IAF	55 38	22.85N	008 50	02.72E	55 38.381N	008 50.045E
EB262	IF	55 33	28.09N	008 51	36.96E	55 33.468N	008 51.616E
EB261	FAF	55 32	44.20N	008 44	30.83E	55 32.737N	008 44.514E
RW26	MAPt	55 31	41.16N	008 34	36.23E	55 31.686N	008 34.437E
EB263	MATF	55 31	04.20N	008 28	35.62E	55 31.070N	008 28.594E
ODORO	MAHF	55 34	21.09N	009 00	17.21E	55 34.352N	009 00.287E

RWY 26 from ODORO (Initial STRAIGHT) APPROACH RNP

		CODING				DISPLAY	
ODORO	IAF	55 34	21.09N	009 00	17.21E	55 34.352N	009 00.287E
EB262	IF	55 33	28.09N	008 51	36.96E	55 33.468N	008 51.616E
EB261	FAF	55 32	44.20N	008 44	30.83E	55 32.737N	008 44.514E
RW26	MAPt	55 31	41.16N	008 34	36.23E	55 31.686N	008 34.437E
EB263	MATF	55 31	04.20N	008 28	35.62E	55 31.070N	008 28.594E
ODORO	MAHF	55 34	21.09N	009 00	17.21E	55 34.352N	009 00.287E

RWY 26 from UTURO (Initial LEFT) APPROACH RNP

		CODING				DISPLAY	
UTURO	IAF	55 29	09.26N	008 56	02.72E	55 29.154N	008 56.045E
EB262	IF	55 33	28.09N	008 51	36.96E	55 33.468N	008 51.616E
EB261	FAF	55 32	44.20N	008 44	30.83E	55 32.737N	008 44.514E
RW26	MAPt	55 31	41.16N	008 34	36.23E	55 31.686N	008 34.437E
EB263	MATF	55 31	04.20N	008 28	35.62E	55 31.070N	008 28.594E
ODORO	MAHF	55 34	21.09N	009 00	17.21E	55 34.352N	009 00.287E

Threshold coordinates RWY 01

		CODING				DISPLAY	
RWY 26		55 31	41.16N	008 34	36.23E	55 31.686N	008 34.437E

CHANGES: PROCEDURE RENAMED RNP

AIR COMMAND DENMARK - MIL_AIM 26 JAN 2023

INTENTIONALLY

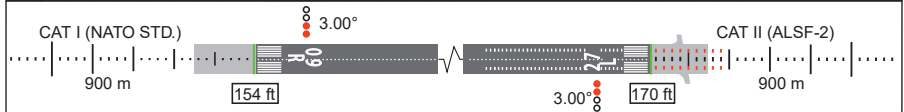
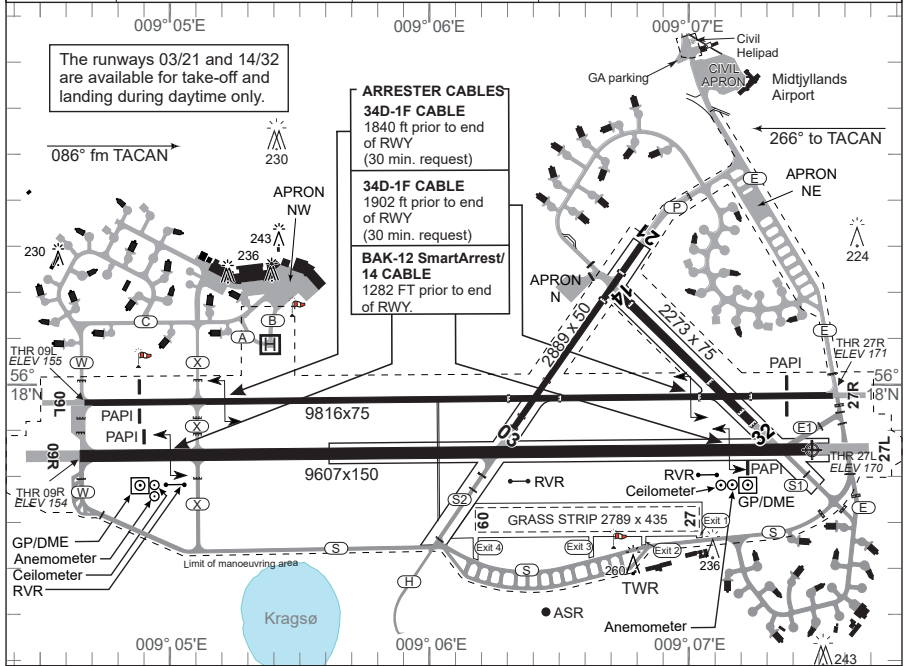
LEFT

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AERODROME CHART

KARUP AIR BASE (EKKA)

KARUP ATIS 120.580	KARUP TOWER 353.575 / 119.580	KARUP APPROACH 269.275 / 120.430	AD Admin and FPL: Email: +45 72 84 31 11 wkar-wingops@mil.dk
AD Elev 171	ARP 56°17.85'N 009°07.48'E	VAR 4.0°E (JAN 2023)	



RWY	PCN	DECLARED DISTANCES				THR ELEV	RWY LIGHTING					THR PSN	
		TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE		END
09R	75	9607	9607	10352	9607	154	LIH	3.00°		LIH	LIH	LIH	56°17.84'N 009°04.64'E
27L	75	9607	9607	10352	9607	170	LIH	3.00°	LIH	LIH	LIH	LIH	56°17.85'N 009°07.48'E
09L	120	9816	9816	10389	9816	154	LIL	2.75°		LIL	LIL	LIL	56°17.95'N 009°04.66'E
27R	120	9816	9816	10282	9816	171	LIL	2.75°		LIL	LIL	LIL	56°17.96'N 009°07.56'E

Noise abatement procedures:
 RWY 27L/R: None.
 RWY 09R/L: Noise abatement procedure for all jet aircraft and for propeller and turboprop aircraft MTOW above 5700 kg for departure or missed approach RWY 09R/L.
 VMC: Avoid overlying the towns/villages Karup and Kølvrå below 2000 feet MSL.
 IMC: Turn must not be commenced before DME KAR (CH 37x) 6.5 NM (or DME KAP (CH20y) 4.0 NM) or 2000 feet AMSL, whichever comes first.

AFTERBURNER/REHEAT must be cut off before reaching the NE/SW going main road (Viborg - Herning) just east of the airfield.

Omnidirectional departures all runways:
 Climb straight ahead to at least 850 FT AMSL before turn is commenced.

MIPS		CIRCLING MINIMA				
A	B	C	D	E		
670	680	850	880	1120		
-1.5 499 (500-1.5)	-1.6 509 (600-1.6)	-2.4 679 (700-2.4)	-3.6 709 (800-3.6)	-3.6 949 (1000-3.6)		

AERODROME CHART

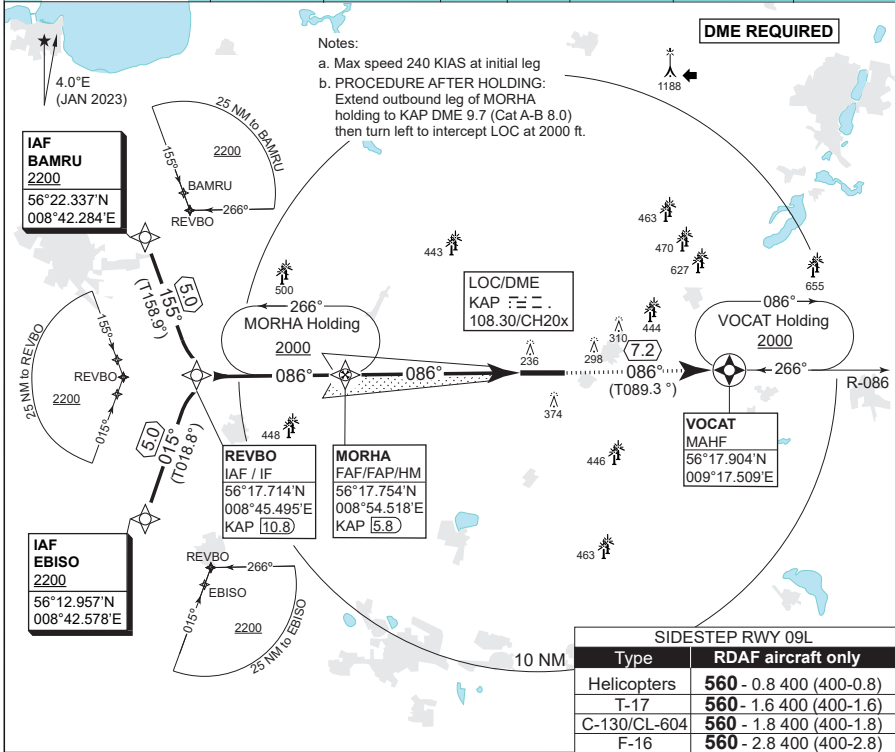
KARUP AIR BASE (EKKA)

MIPS INSTRUMENT APPROACH CHART

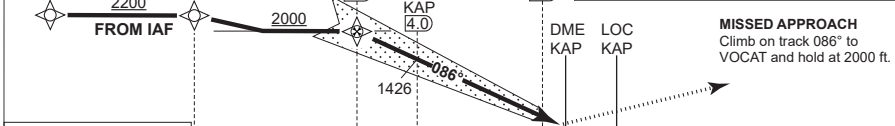
AD ELEV 171

**ILS or LOC RWY 09R
KARUP AIR BASE (EKKA)**

COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580		KARUP APPROACH 269.275 120.430			KARUP TOWER 353.575 119.580	
LOC/DME KAP 108.300/CH20X	APP COURSE 086°	GS INTCP ALT 2000 FT	GS 3.00°	DA 354	THR ELEV 154	ALS LENGTH 900 M	LDA 9607 FT	



TA 3000 GS 3.0° RDH 50	IAF / IF REVBO KAP 10.8	FAF MORHA KAP 5.8	LOC ONLY	MAPt KAP 0.6	DME KAP 5	LOC KAP 4	LOC KAP 3	LOC KAP 2	LOC KAP 1
					DIST THR 4.8	3.8	2.8	1.8	0.8
					ALT 1750	1430	1110	790	470



CAT I	5.0	5.6	THR ELEV 154
-------	-----	-----	--------------

CATEGORY	A	B	C	D	E
S-ILS CAT I	354 - 550 200 (200-0.8/1.2)				
S-LOC 09R	470 - 750 316 (400-0.8/1.4)				
CIRCLING	670 - 1.5 499 (500-1.5)	680 - 1.6 509 (600-1.6)	840 - 2.4 669 (700-2.4)	880 - 3.6 709 (800-3.6)	1120 - 3.6 949 (1000-3.6)

ILS or LOC RWY 09R

56°17.85'N
009°07.48'E
5-2

KARUP AIR BASE (EKKA)

CHANGES: ATC VHF FREQ. MIPS

AIR COMMAND DENMARK - MIL-AIM 18 APR 2024

MIPS

INSTRUMENT APPROACH CHART

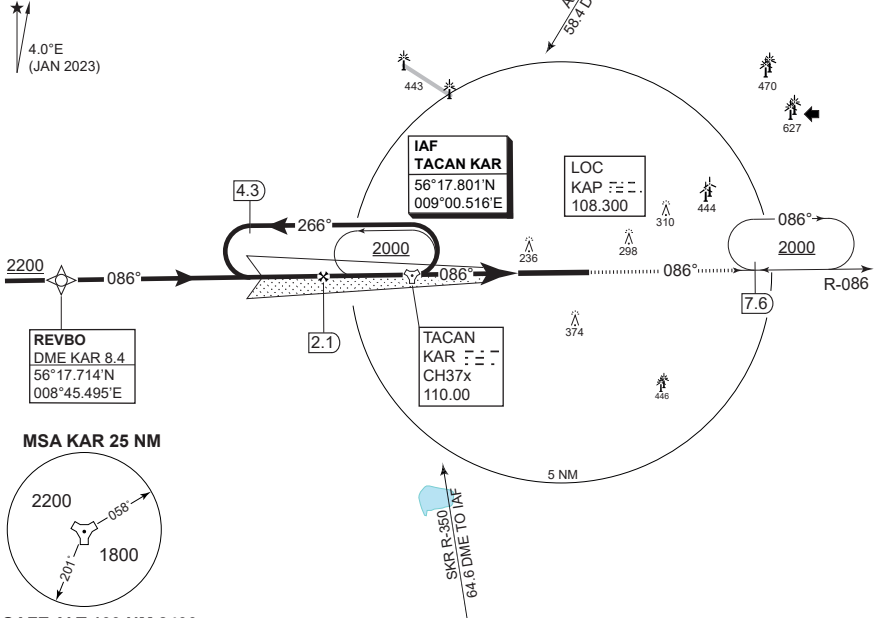
**COPTER ILS or LOC RWY 09R
KARUP AIR BASE (EKKA)**

AD ELEV 171

COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580	KARUP APPROACH 269.275 120.430		KARUP TOWER 353.575 119.580			
TACAN KAR 110.00/CH 37x	LOC KAP 108.300	APP COURSE 086°	GS INTCP ALT 1600 FT	GS 3.00°	DA 354	THR ELEV 154	ALS LENGTH 900 M	LDA 9607 FT

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

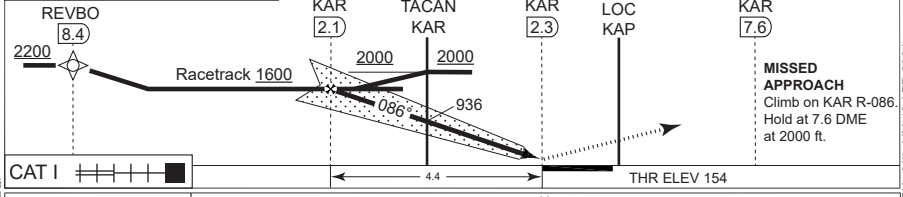
TACAN REQUIRED



LOC ONLY: CDFA 3.00° / 5.24%

DME KAR	2	1	0	1
DIST THR	4.3	3.3	2.3	1.3
ALT	1580	1260	940	620

TA 3000
GS 3.0°
RDH 50



CAT I	■	
CATEGORY		H
H-ILS CAT I 09R		354 - 400 200 (200-0.4/0.8)
H-LOC 09R		470 - 400 316 (400-0.4/0.8)

COPTER ILS or LOC RWY 09R

56°17.85'N
009°07.48'E
5-3

KARUP AIR BASE (EKKA)

EKKA

CHANGES: ATC, VHF, FREQ.

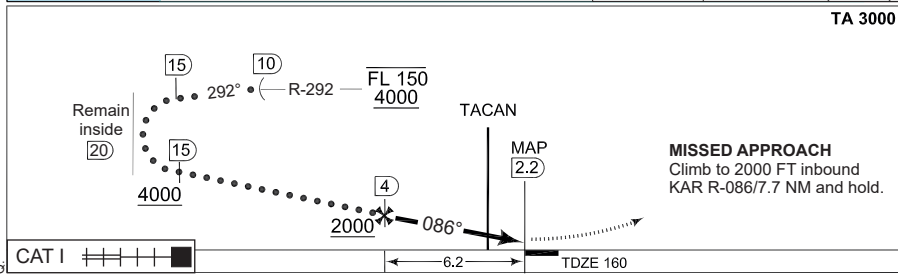
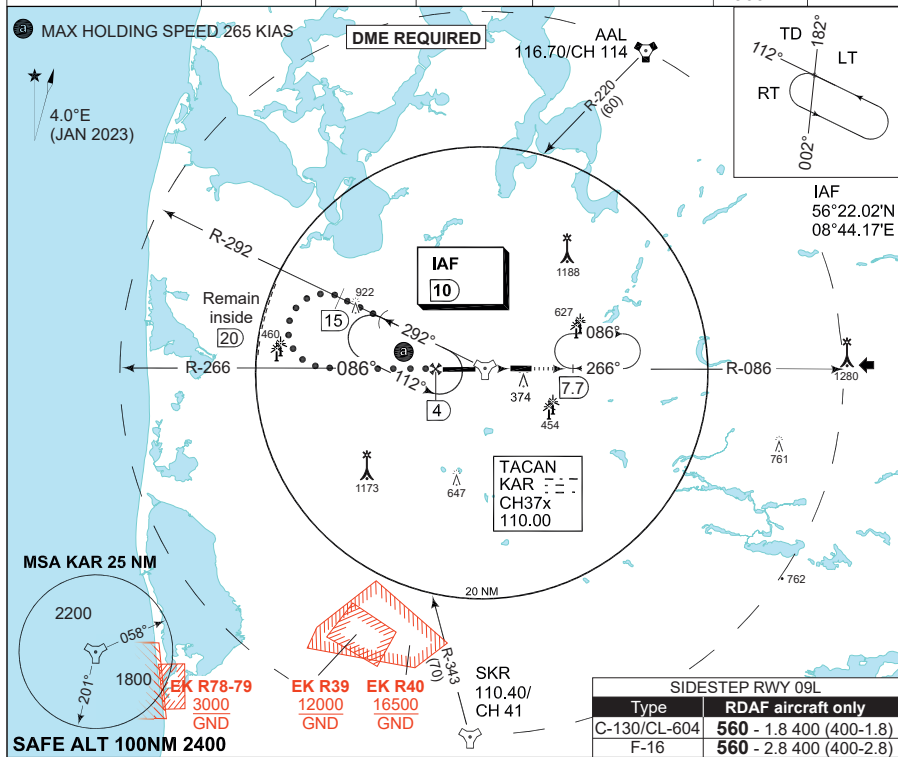
AIR COMMAND DENMARK - MIL AIM 15 APR 2024

TERPS INSTRUMENT APPROACH CHART

AD ELEV 171

**HI-TACAN RWY 09R
KARUP AIR BASE (EKKA)**

COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580	KARUP APPROACH 269.275 120.430		KARUP TOWER 353.575 119.580	
TACAN KAR 110.00/CH 37x	APP COURSE 086°	FAF ALT 2000 FT	DESCENT GR 292 FT/NM	MDA 500	TDZE 160	ALS length 900 M LDA 9607 FT



TERPS	CATEGORY	C	D	E
S-TACAN 09R		500 -1200 340 (400-1.2/1.6)		500 -1200 340 (400-1.2/2.0)
CIRCLING		680 -2400 510 (600-2.4)	720 -3200 550 (600-3.2)	780 -3600 610 (700-3.6)

HI-TACAN RWY 09R

56°17.85'N
009°07.48'E

KARUP AIR BASE (EKKA)

CHANGES: ATC/VHF FREQ.

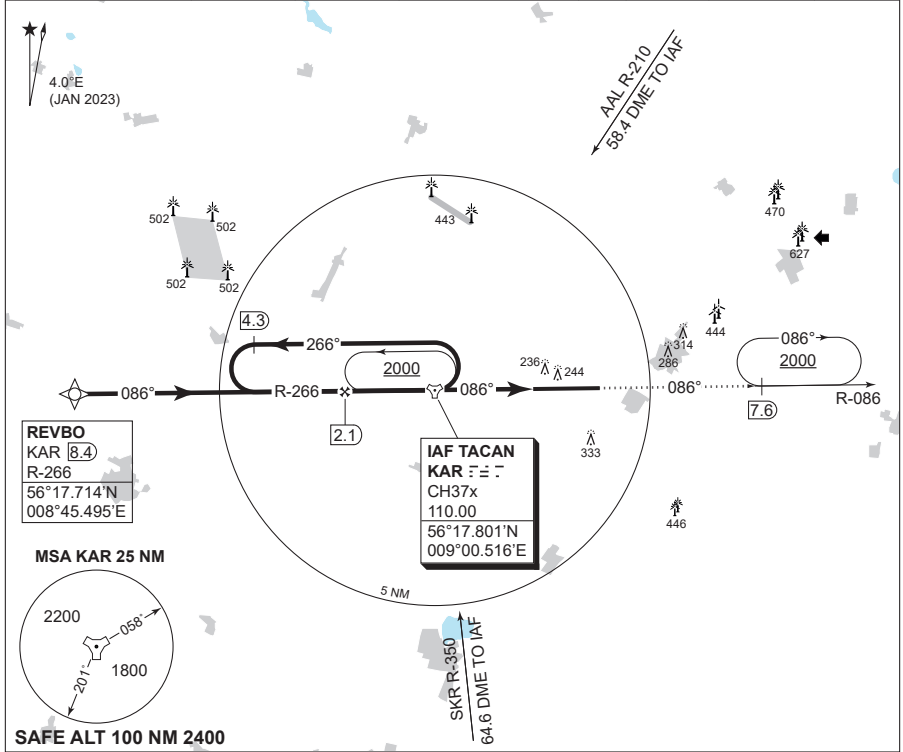
AIR COMMAND DENMARK - MIL AIM 18 APR 2024

MIPS
INSTRUMENT APPROACH CHART

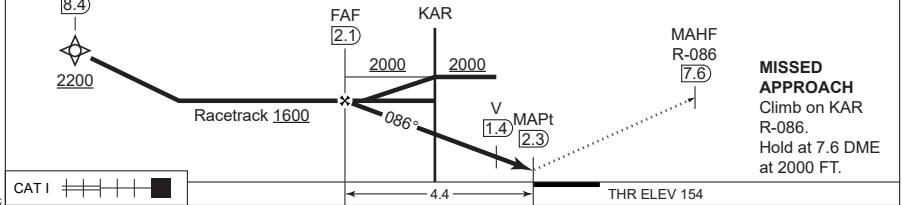
COPTER TACAN RWY 09R
KARUP AIR BASE (EKKA)

AD ELEV 171

COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580	KARUP APPROACH 269.275 120.430		KARUP TOWER 353.575 119.580	
TACAN KAR 110.00/CH 37x	APP COURSE 086°	FAF ALT 1600 FT	DESCENT GR. 5.24% (318 FT/NM)	MDA 480	THR ELEV 154	LDA 900 M
		LDA 9607 FT				



TA 3000	CDFA 3.0° / 5.24%				
	DME KAR	2	1	0	1
	DIST THR	4.3	3.3	2.3	1.3
	ALT	1580	1260	940	620



CATEGORY	H
H-TAC RWY 09R	480 - 400 326 (400-0.4/0.8)

CHANGES: ATC VHF FREQ.

MIPS

COPTER TACAN RWY 09R

56°17.85'N
009°07.48'E
5-5

KARUP AIR BASE (EKKA)

EKKA

AIR COMMAND DENMARK - MIL-AIM 18 APR 2024

MIPS

INSTRUMENT APPROACH CHART

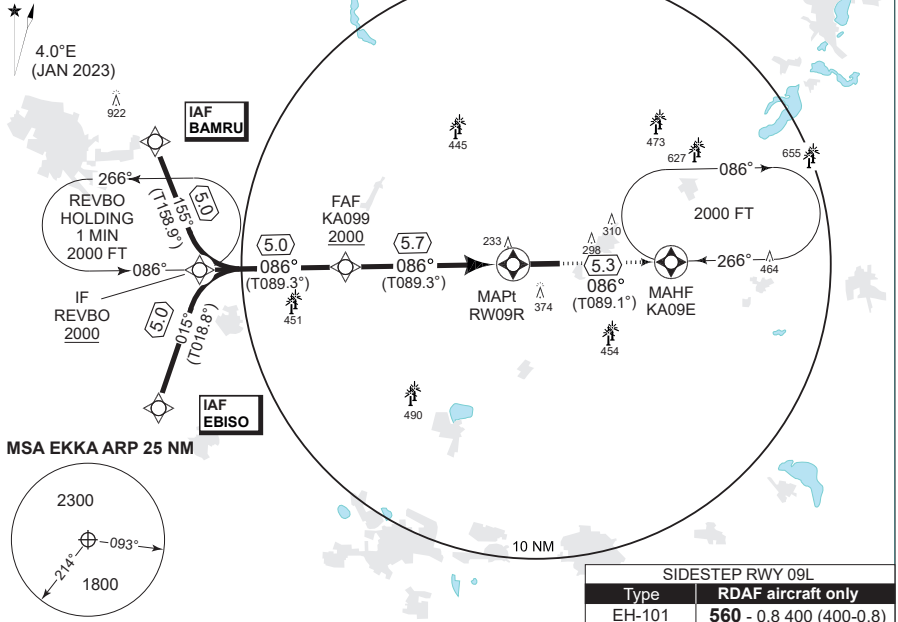
AD ELEV 171

**RNP RWY 09R
KARUP AIR BASE (EKKA)**

COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580		KARUP APPROACH 269.275 120.430		KARUP TOWER 353.575 119.580	
EGNOS CHANNEL 46175 / E09A	APP COURSE 086°	FAF ALT 2000 FT	Descent GR 3.0° (5.24%)	MINIMA See CAT	THR ELEV 154	ALS length 900 M	LDA 9607 FT

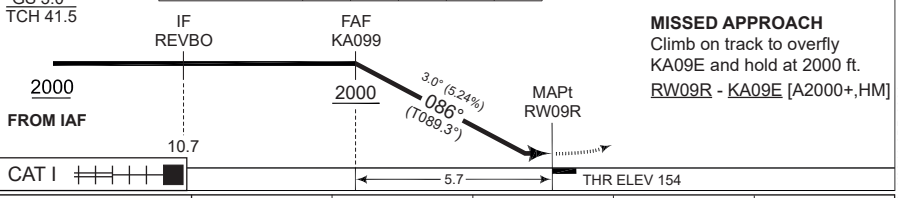
Note 1: Max speed 250 KIAS
Note 2: PAPI and RNAV glidepath not coincident (PAPI angle 3.00° / TCH 50)

a Not to be used below -25°C



SAFE ALT 100NM 2400

TA 3000 GS 3.0° TCH 41.5	DIST TO RWY09R	5	4	3	2	1
	NOM. ALTITUDE	1790	1470	1150	830	520



CATEGORY	A		B		C		D		E	
	LPV (DA)	404		- 600 250 (300-0.8/1.3)						
LNAV/VNAV (DA) a	454		- 650 300 (300-0.8/1.4)							
LNAV (MDA)	490		- 800 336 (400-0.8/1.5)						500 - 900 346 (400-0.9/1.6)	
CIRCLING	670	- 1.5 499 (500-1.5)	680	- 1.6 509 (600-1.6)	850	- 2.4 679 (700-2.4)	880	- 3.6 709 (800-3.6)	1120	- 3.6 949 (1000-3.6)

RNP RWY 09R

56°17.85'N
009°07.48'E
5-6

KARUP AIR BASE (EKKA)

CHANGES: ATC VHF FREQ.

AIR COMMAND DENMARK - MIL-AIM 18 APR 2024

EKKA RNP RWY 09R waypoint coordinates:

RWY 09R from BAMRU APPROACH RNP

		CODING				DISPLAY	
BAMRU	IAF	56 22 20.21N	008 42 17.04E	56 22.337°N	008 42.284°E		
REVBO	IF	56 17 42.82N	008 45 29.70E	56 17.714°N	008 45.495°E		
KA099	FAF	56 17 46.08N	008 54 28.08E	56 17.768°N	008 54.468°E		
RW09R	MAPt	56 17 49.74N	009 04 38.39E	56 17.829°N	009 04.640°E		
KA09E	MAHF	56 17 54.42N	009 14 13.05E	56 17.907°N	009 14.217°E		

RWY 09R from EBISO APPROACH RNP

		CODING				DISPLAY	
EBISO	IAF	56 12 57.40N	008 42 34.70E	56 12.957°N	008 42.578°E		
REVBO	IF	56 17 42.82N	008 45 29.70E	56 17.714°N	008 45.495°E		
KA099	FAF	56 17 46.08N	008 54 28.08E	56 17.768°N	008 54.468°E		
RW09R	MAPt	56 17 49.74N	009 04 38.39E	56 17.829°N	009 04.640°E		
KA09E	MAHF	56 17 54.42N	009 14 13.05E	56 17.907°N	009 14.217°E		

Threshold coordinates RWY 09R

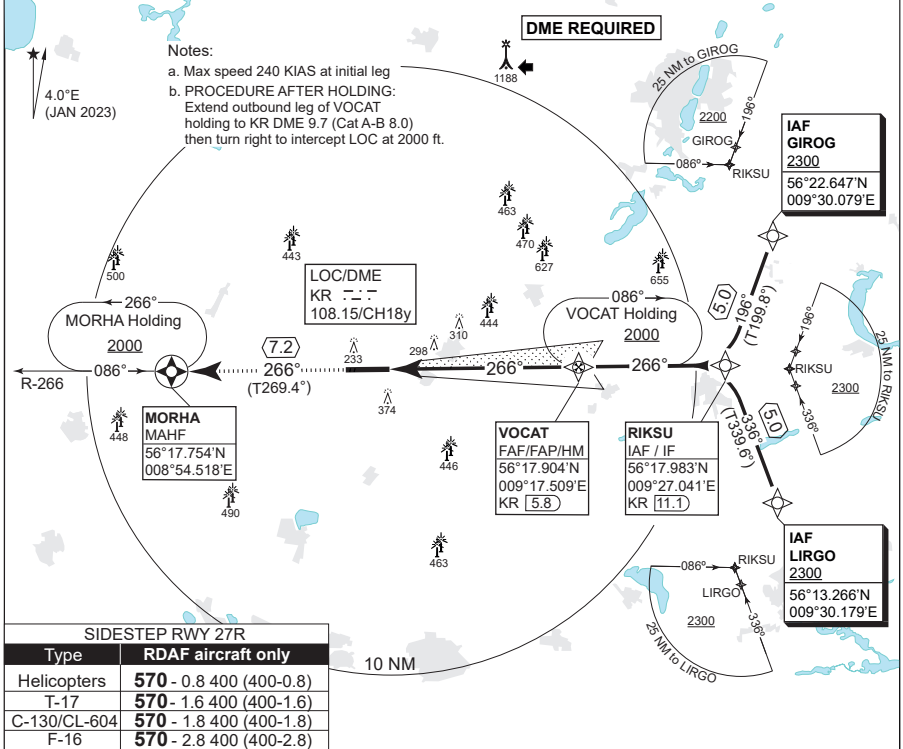
		CODING		DISPLAY	
RWY 09R		56 17 49.74N	009 04 38.39E	56 17.829°N	009 04.640°E

MIPS INSTRUMENT APPROACH CHART

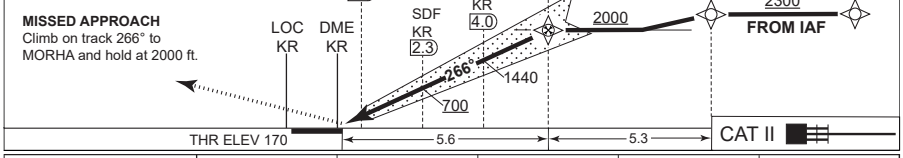
AD ELEV 171

ILS or LOC RWY 27L KARUP AIR BASE (EKKA)

COPENHAGEN CONTROL 242.650 124.555	KARUP ATIS 120.580	KARUP APPROACH 269.275 120.430		KARUP TOWER 353.575 119.580	
LOC/DME KR 108.150/CH18y	APP COURSE 266°	GS INTCP ALT 2000 FT	GS 3.00°	DA 370	THR ELEV 170
ALS LENGTH 900 M			LDA 9607 FT		



LOC ONLY: CDFA 3.00° / 5.24%						MAPt KR 10.6	LOC ONLY	FAF VOCAT KR 5.8	IAF / IF RIKSU KR 11.1	TA 3000 GS 3.0° RDH 50
DME KR	1	2	3	4	5					
DIST THR	0.8	1.8	2.8	3.8	4.8					
ALT	490	810	1120	1440	1760					



CATEGORY	A	B	C	D	E
S-ILS CAT I	370 - 550 200 (200-0.8/1.2)				
S-ILS CAT II	RA 106 (DA 270) - 350 100				N/A
S-LOC 27L	480 - 750 310 (400-0.8/1.4)				
CIRCLING	670 - 1.5 499 (500-1.5)	680 - 1.6 509 (600-1.6)	840 - 2.4 669 (700-2.4)	880 - 3.6 709 (800-3.6)	1120 - 3.6 949 (1000-3.6)

ILS or LOC RWY 27L

56°17.85'N
 009°07.48'E
 5-8

KARUP AIR BASE (EKKA)

CHANGES: ATC VHF FREQ.

AIR COMMAND DENMARK - MIL-AIM 18-A-PR 2024

MIPS

INSTRUMENT APPROACH CHART

COPTER ILS or LOC RWY 27L

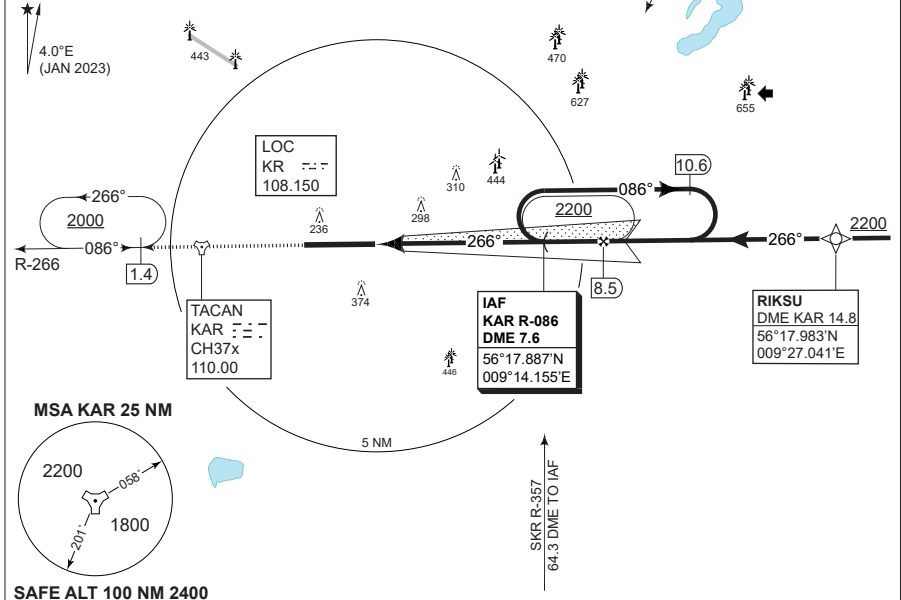
KARUP AIR BASE (EKKA)

AD ELEV 171

COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580		KARUP APPROACH 269.275 120.430			KARUP TOWER 353.575 119.580	
TACAN KAR 110.00/CH 37x	LOC KR 108.150	APP COURSE 266°	GS INTCP ALT 1700 FT	GS 3.00°	DA 370	THR ELEV 170	ALS LENGTH 900 M	LDA 9607 FT

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

a For aircraft using auto-coupled to below
DH RVR may be reduced to RVR 300 m.



SAFE ALT 100 NM 2400

LOC ONLY: CDFA 3.00° / 5.24%				MAPt (LOC) KAR [3.9]		SDF KAR [6.0]		IAF KAR R-086 [7.6]		FAF (LOC) KAR [8.5]		TA 3000 GS 3.0° RDH 50	
DME KAR	5	6	7	8	R-266 [1.4]		R-086 [7.6]		R-086 [8.5]		RIKSU [14.8]		
DIST THR	1.1	2.1	3.1	4.1	THR ELEV 170		4.6		Racetrack 1700		CAT II		
ALT	580	900	1220	1540	THR ELEV 170		4.6		Racetrack 1700		CAT II		

MISSSED APPROACH
Climb on track 266 to KAR. After KAR continue on R-266. Hold at 1.4 DME at 2000 ft.

CHANGES: ATC VHF FREQ.

CATEGORY	H	
H-ILS CAT I 27L	370 - 400 200 (200-0.4/0.8)	
H-ILS CAT II 27L a	RA 106 (DA 270) - 350 100	
H-LOC 27L	480 - 400 310 (400-0.4/0.8)	

COPTER ILS or LOC RWY 27L

56°17.85'N
009°07.48'E
5-9

KARUP AIR BASE (EKKA)



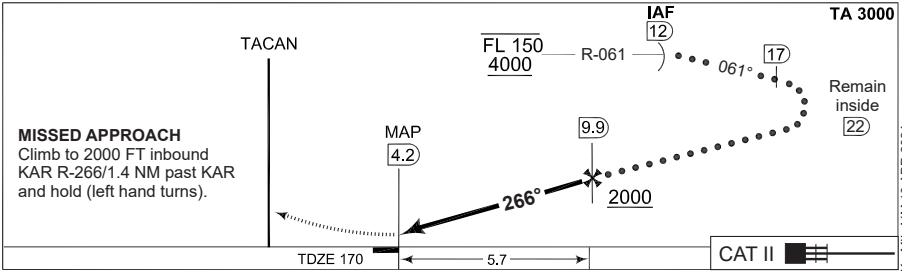
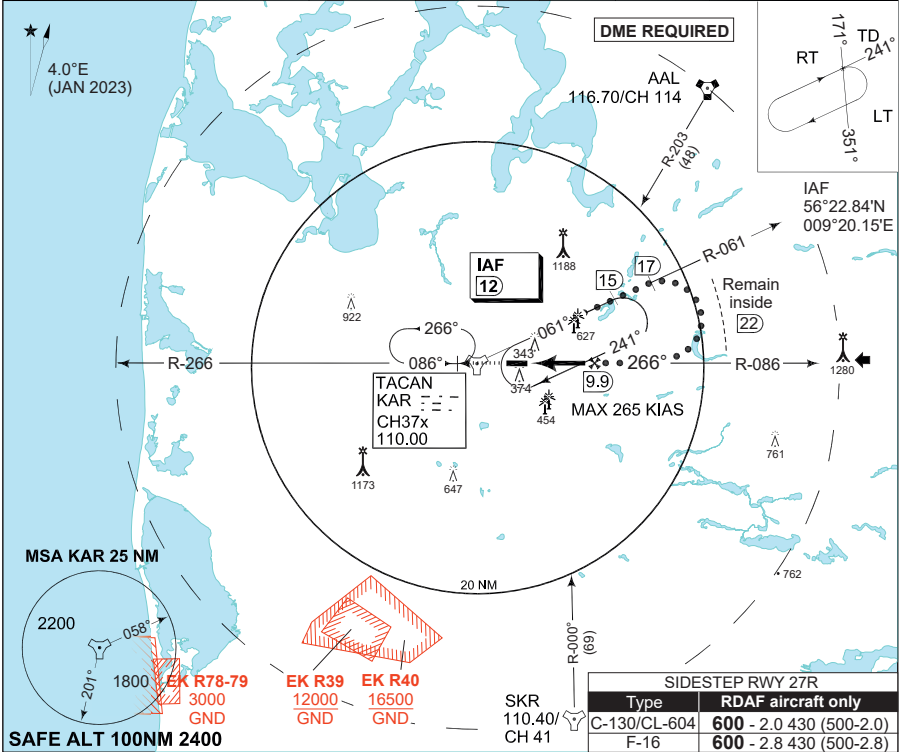
AIR COMMAND DENMARK - MIL. AIRM 18 APR 2024

**TERPS
INSTRUMENT APPROACH CHART**

**HI-TACAN RWY 27L
KARUP AIR BASE (EKKA)**

AD ELEV 171

COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580		KARUP APPROACH 269.275 120.430			KARUP TOWER 353.575 119.580	
TACAN KAR 110.00/CH 37x	APP COURSE 266°	FAF ALT 2000 FT	DESCENT GR 305 FT/NM	MDA 600	TDZE 170	ALS length 900 M	LDA 9607 FT	



TERPS	CATEGORY	C		D		E	
		600	-1200 430 (500-1.2/2.0)	600	-1200 430 (500-1.2/2.4)	780	-3600 610 (700-3.6)
	S-TACAN 27L	600	-1200 430 (500-1.2/2.0)	600	-1200 430 (500-1.2/2.4)		
	CIRCLING	680	-2400 510 (600-2.4)	720	-3200 550 (600-3.2)	780	-3600 610 (700-3.6)

HI-TACAN RWY 27L

56°17.85'N
009°07.48'E
5-10

KARUP AIR BASE (EKKA)

CHANGES, ATC VHF FREQ.

AIR COMMAND DENMARK - MIL AIM 18 APR 2024

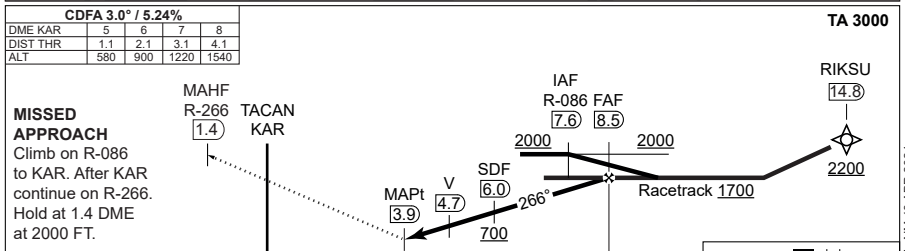
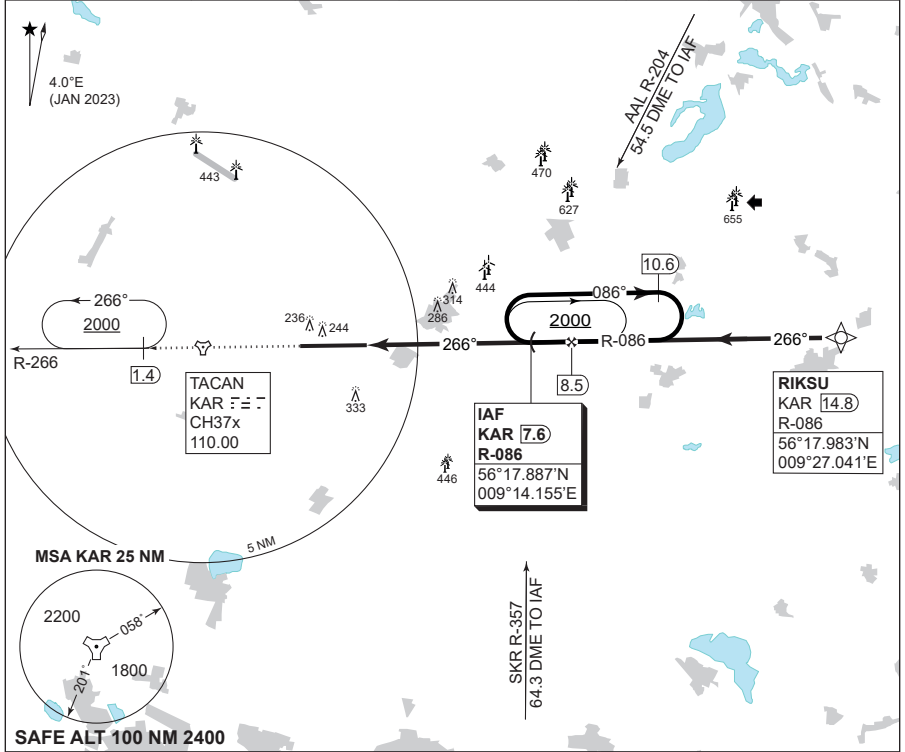
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 171

**COPTER TACAN RWY 27L
KARUP AIR BASE (EKKA)**

COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580	KARUP APPROACH 269.275 120.430		KARUP TOWER 353.575 119.580	
TACAN KAR 110.00/CH 37x	APP COURSE 266°	FAF ALT 1700 FT	DESCENT GR. 5.24% (318 FT/NM)	MDA 500	THR ELEV 170	LDA 900 M
		LDA 9607 FT				



CATEGORY	H	
H-TAC RWY 27L	500 - 400 329 (400-0.4/0.8)	

COPTER TACAN RWY 27L

56°17.85'N
009°07.48'E
5-11

KARUP AIR BASE (EKKA)

EKKA

CHANGES: ATC VHF FREQ.

AIR COMMAND DENMARK - MIL AIM 18 APR 2024

MIPS

INSTRUMENT APPROACH CHART

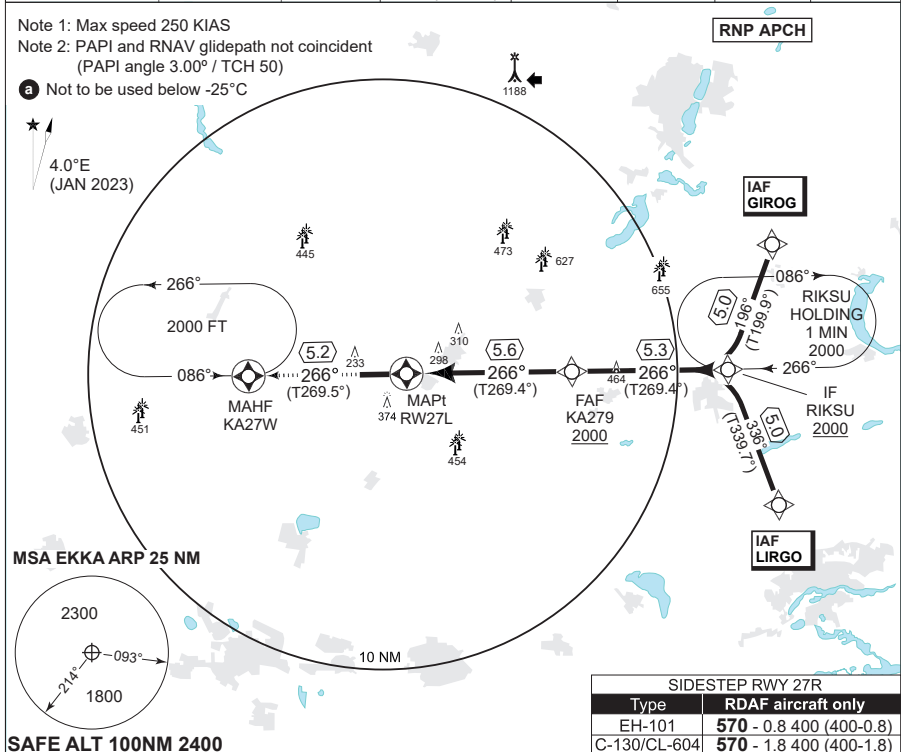
AD ELEV 171

**RNP RWY 27L
KARUP AIR BASE (EKKA)**

COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.580		KARUP APPROACH 269.275 120.430		KARUP TOWER 353.575 119.580	
EGNOS CHANNEL 54104 / E27A	APP COURSE 266°	FAF ALT 2000 FT	Descent GR 3.0° (5.24%)	MINIMA See CAT	THR ELEV 170	ALS length 900 M	LDA 9607 FT

Note 1: Max speed 250 KIAS
 Note 2: PAPI and RNAV glidepath not coincident
 (PAPI angle 3.00° / TCH 50)

a Not to be used below -25°C

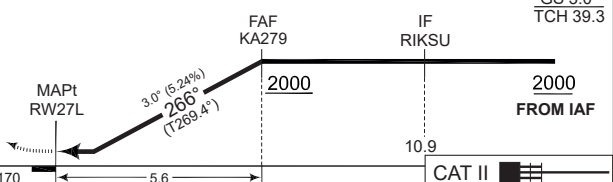


SAFE ALT 100NM 2400

DIST TO RW27L	1	2	3	4	5	TA 3000 GS 3.0° TCH 39.3
NOM. ALTITUDE	530	850	1170	1490	1800	

MISSED APPROACH

Climb on track to overfly
 KA27W and hold at 2000 ft.
 RW27L - KA27W [A2000+,HM]



THR ELEV 170	5.6	CAT II
--------------	-----	--------

CATEGORY	A	B	C	D	E	
LPV (DA)		420 - 600 250 (300-0.8/1.3)				
LNAV/VNAV (DA) a		500 - 800 330 (400-0.8/1.5)				
LNAV (MDA)		510 - 800 340 (400-0.8/1.5)				
CIRCLING	670 - 1.5 499 (500-1.5)	680 - 1.6 509 (600-1.6)	850 - 2.4 679 (700-2.4)	880 - 3.6 709 (800-3.6)	1120 - 3.6 949 (1000-3.6)	

RNP RWY 27L

56°17.85'N
009°07.48'E

KARUP AIR BASE (EKKA)

CHANGES: ATC/VHF FREQ.

AIR COMMAND DENMARK - MIL AIM 18 APR 2024

EKKA RNP RWY 27L waypoint coordinates:

RWY 27L from LIRGO APPROACH RNP

		CODING				DISPLAY	
LIRGO	IAF	56 13 15.94N	009 30 10.73E	56 13.266°N	009 30.179°E		
RIKSU	IF	56 17 59.00N	009 27 02.47E	56 17.983°N	009 27.041°E		
KA279	FAF	56 17 55.06N	009 17 34.22E	56 17.918°N	009 17.570°E		
RW27L	MAPt	56 17 50.85N	009 07 28.66E	56 17.847°N	009 07.478°E		
KA27W	MAHF	56 17 47.51N	008 58 06.53E	56 17.792°N	008 58.109°E		

RWY 27L from GIROG APPROACH RNP

		CODING				DISPLAY	
GIROG	IAF	56 22 38.81N	009 30 04.76E	56 22.647°N	009 30.079°E		
RIKSU	IF	56 17 59.00N	009 27 02.47E	56 17.983°N	009 27.041°E		
KA279	FAF	56 17 55.06N	009 17 34.22E	56 17.918°N	009 17.570°E		
RW27L	MAPt	56 17 50.85N	009 07 28.66E	56 17.847°N	009 07.478°E		
KA27W	MAHF	56 17 47.51N	008 58 06.53E	56 17.792°N	008 58.109°E		

Threshold coordinates RWY 27L

		CODING		DISPLAY	
RWY 27L		56 17 50.85N	009 07 28.66E	56 17.847°N	009 07.478°E

INTENTIONALLY

LEFT

BLANK

AERODROME CHART

KASTRUP (EKCH)



CHANGES: DECLARED DISTANCES AND TAKE-OFF POS DISTANCES ADJUSTED.

RWY	PCN	DECLARED DISTANCES				HDG	THR	RWY LIGHTING					APP LGT	THR PSN
		TORA	TODA	ASDA	LDA			MAG	ELEV	THR	PAPI	TDZ		
04L	80 F/C/X/U	9842	9842	11715	9842	037°	13	LIH	3°	LIH	LIH	LIH	CAT II	55°35.54'N 102°36.22'E
22R	80 F/C/X/U	11791	11791	11791	9842	217°	14	LIH	3°	LIH	LIH	LIH	J	55°36.76'N 102°37.10'E
04R	80 F/C/X/U	10833	10833	10833	10833	037°	12	LIH	3°		LIH	LIH	J	55°36.19'N 102°37.99'E
22L	80 F/C/X/U	10833	10833	10833	10833	217°	8	LIH	3°	LIH	LIH	LIH	CAT II+III	55°37.53'N 102°40.06'E
12	80 F/C/X/U	9186	9186	9186	7759	119°	13	LIH	3°		LIH	LIH	J	55°37.46'N 102°38.36'E
30	80 F/C/X/U	7759	7759	8743	6873	299°	8	LIH	3°		LIH	LIH	J	55°36.84'N 102°40.02'E

FREQUENCIES		TAKE-OFF POSITIONS				
COPENHAGEN APP:	119.805	RWY	PSN	TORA	TODA	ASDA
KASTRUP FINAL:	120.205	22R	A2	11446	11446	11446
KASTRUP TWR:	118.105 / 118.580 / 118.705 / 119.355 / 121.830	A3	A4	10610	10610	10610
KASTRUP APRON:	121.630 / 121.905	A5	A5	9478	9478	9478
ATIS (ARR):	122.755					
ATIS (DEP):	122.855					
SAS MAINTENANCE:	131.600					
F-16 PARKING POSITIONS		04R	B2	10508	10508	10508
ARMED OR EPU ACTIVATED:		B3	B3	9176	9176	9176
TWY G3. Safe direction SOUTH EAST (follow marshaller)		B4/C	B4/C	6368	6368	6368
AIRCRAFT NOT ARMED:		22L	V2	9143	9143	9143
RI, RII or RIII on Apron W, TWY F3, engine run-up area on Apron C or TWY F2. Follow marshaller.		12	K2	8854	8854	8854
See page 6-2 for further details.			K3	8136	8136	8136
			D	5908	5908	5908

AIR COMMAND DENMARK - MIL AIM 18 APR 2024

AERODROME CHART

KASTRUP (EKCH)

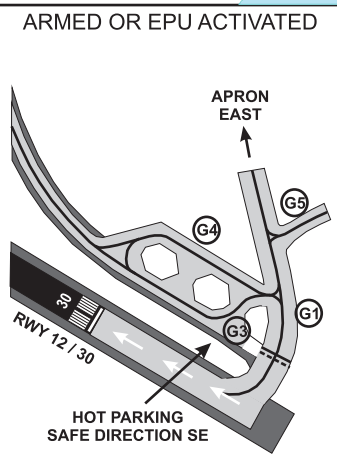
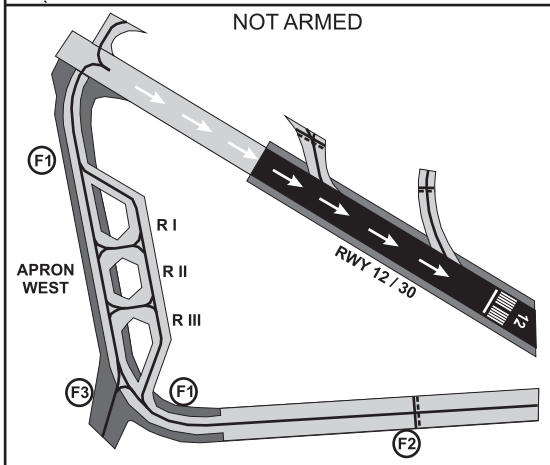
F-16 PARKING POSITIONS

KASTRUP (EKCH)



NOT ARMED

ARMED OR EPU ACTIVATED



CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL-AIM 24 FEB 2022

F-16 PARKING POSITIONS

KASTRUP (EKCH)

KASTRUP OPERATIONS

1. GENERAL

- 1.1. Use of afterburner is not permitted
- 1.2. Preferred RWY for landing: 22L/04L.
Preferred RWY for take off: 22R/04R.

2. APPROACH

- 2.1. After KORAN, KORSA or TRANO expect radar vectoring to final.
- 2.2. On initial contact with APP or ARR: State callsign, aircraft type, and arrival ATS.
- 2.3. On initial contact with Final state callsign only.
- 2.4. Do not overfly the city of Copenhagen below 2500 feet.
- 2.5. RWY 12: Do not fly below GP during instrument or visual approach.
- 2.6. Landing on RWY 22L: Turn on to taxiway B unless otherwise instructed.
Landing on RWY 04L: Turn on to taxiway A unless otherwise instructed.
- 2.7. Remain on tower frequency after landing until otherwise instructed by ATC.

3. START UP AND DEPARTURE

- 3.1. Contact DLV (119.900 MHz) between 30 and 10 minutes prior to engine start and state; Call sign, aircraft type, parking place, departure ATIS and need for de-icing.
If unable to follow the SID, inform DLV ("Unable RNAV").
- 3.2. After read back, DLV will give the frequency for GND or TWR. (Expect 121.900 MHz for GND).
- 3.3. On GND/TWR request start up and taxi (Marshaller compulsory from R1-R3)
- 3.4. Take off position: See AD LAYOUT for INT and distances.
- 3.5. Departure:
 - 3.5.1. When passing 1000 feet contact departure on frequency 124.980 MHz for the following SID's (without designator as e.g. ASTOS 1C): ASTOS, KEMAX, SIMEG, BALOX, BISTA, MAXEL and TOBIS – departures in direction 001° to 270° from KAS.
 - 3.5.2. When passing 1000 feet contact DEP on frequency 120.255 MHz for the following departures (without designator e.g. DOBEL 1C): DOBEL, SORGA, MIRGO, and NOVPO – departures in direction 271° to 360° from KAS.

- 3.6. Speed restriction is 250 kt. below FL70.
- 3.7. NOTE: Non RNAV aircraft: At first CTC with TWR state inability to follow SID. Climb straight ahead to FL70 for radar vectors to SID designation point. COM: Remain on TWR FREQ until passing 1000FT. At 1000FT CTC DEP. ALT restriction is FL70.

4. GROUND HANDLING (FIGHTER AIRCRAFT ONLY)

- 4.1. Landing not planned:
Contact SAS maintenance, Call Sign: "SAS maintenance" on frequency 131.600 MHz, as soon as possible.
- 4.2. Planned landing:
Call Duty Manager CPH-TS on phone +45 3232 2511 before the mission.
- 4.3. For F-35 JET-A/JET-A1 is characterized as "Restricted Fuel" iaw. FSD. RTB flight to be conducted as direct transit flight back to EKSP. Aircraft to be partially refueled iaw. RTB mission profile.
- 4.4. SAS Ground Handling are familiar with "F-35 Ground Ladder" operation, but it is the pilot's responsibility to be familiar with, and be able to instruct civilian ground personnel in its operation, from the cockpit.

5. PLANNED PARKING POSITIONS FOR FIGHTER AIRCRAFT

- 5.1. Armed F-16 or F-16 with activated EPU:
Taxiway G3. Safe direction is SE (Follow Marshaller).
- 5.2. Unarmed F-16:
R1, R11 or R111 on Apron W, taxiway F3, engine run up area on Apron C or taxiway F2. (Follow Marshaller).
- 5.3. Unarmed F-35:
CPH Marshaller will handover aircraft to SAS Ground Handling on parking spot G110-G114.
Parking is only allowed on concrete as IPP operation will melt asphalt.

KASTRUP ARRIVAL

IFR approach

At first contact with APPROACH, state type of aircraft.

At initial contact with FINAL, state only callsign.

Radio Communication failure during IFR approach for a/c WITHOUT VOR, but WITH TACAN, incl. RDAF F-16.

In case of radio communication failure the last cleared and acknowledged level shall be maintained until RNAV fix UVALO (55°47.47N – 012°05.73E) HIGH HOLDING. (UVALO R-278 / 20 NM). Descend to 6000 FT AMSL in the holding pattern. If already at a lower level, maintain this.

From UVALO HIGH HOLDING proceed via UVALO on radials (UVALO R-160 to RWY 04L/R and R-083 to RWY 22L/R respectively). At 13 NM from UVALO descend to maintain 3000 FT before established on the localizer to the runway concerned.

Radio Communication failure during IFR approach for a/c WITH VOR.

In case of radio communication failure, the last cleared and acknowledged level shall be maintained until the appropriate primary holding pattern (see next page). Descent to FL80 in the holding pattern. If already at a lower level, maintain that level until KASTRUP VOR.

From the primary holding pattern proceed via ERNOV, TIDVU, CODAN, KORSA or TRANO VOR direct to KASTRUP VOR.

If radio communication failure occurs after passing, direct over or abeam the primary holding fix (LUGAS, ROSBI, ERNOV, TIDVU AND CDA) proceed direct to KASTRUP VOR, and continue descent to last cleared and acknowledged level or altitude.

From KASTRUP VOR perform the appropriate instrument approach procedure

Special conditions for flying in Swedish Airspace.

Danish military aircraft may, in connection with approach to EKCH, enter Swedish airspace, within the areas delegated to Copenhagen APP. The flight must be controlled by Copenhagen APP. The areas are:

- Copenhagen Area.
- Area L2, L3, Area SUNDET and Area KASTRUP (see MIL AIP Denmark page ENR 2.1-2 and ENR 2.3-3 (chart))

ARRIVAL INFORMATION

KASTRUP (EKCH)

Military aircraft may, without special permission, enter Swedish territorial waters in Øresund. Minimum distance to the Swedish coast is 1 NM. All kinds of military activities are prohibited during passage. The area is limited as follows:

- To the north by a line between Gilbjergghoved (56° 08.000'N 012° 27.000'E) and Kullen (56° 18.000'N 012° 27.000'E).
- To the south by a line between Stevns Lighthouse (55° 18.000'N 012° 27.000'E) and Falsterbo Odde (55° 23.000'N 012° 49.000'E).

Primary holdings for København/Kastrup

Holding Name	Inbound Track (MAG)	Turn	MAX IAS	MNM/MAX Level Time	Entry Procedure
TIDVU 55° 24.678'N 013° 33.452'E	294	Right	230	5000 FT 1.5 MIN	Omni-directional
CODAN CDA VOR/DME. 55° 00.090'N 012° 22.753'E	032	Right	230	3500FT/FL140 1 MIN	Direct entry via MONAK or Z711
	032	Right	240	FL150/FL200 1.5 MIN	Direct entry via MONAK or Z711
LUGAS KOR VOR/DME R-251/23.8 DME ODN VOR R-143. 55° 19.783'N 010° 57.783'E	073	Left	230	3500FT/FL140 1 MIN	Direct entry via TUDLO*
	073	Left	240	FL150/FL200 1.5 MIN	Direct entry via TUDLO*
	073	Left	265	FL210/FL300 1.5 MIN	Direct entry via TUDLO*
ROSBI TNO VOR/DME R-282/17.7 DME ODN VOR R-029 55° 50.967'N 010° 55.917'E	103	Left	230	3500FT/FL140 1 MIN	Direct entry via TESPI**
	103	Left	240	FL150/FL200 1.5 MIN	Direct entry via TESPI**
	103	Left	265	FL210/FL300 1.5 MIN	Direct entry via TESPI**
ERNOV 56° 10.132'N 012° 34.427'E	179	Left	230	FL100 / 1.5 MIN	Omni-directional

Notes:

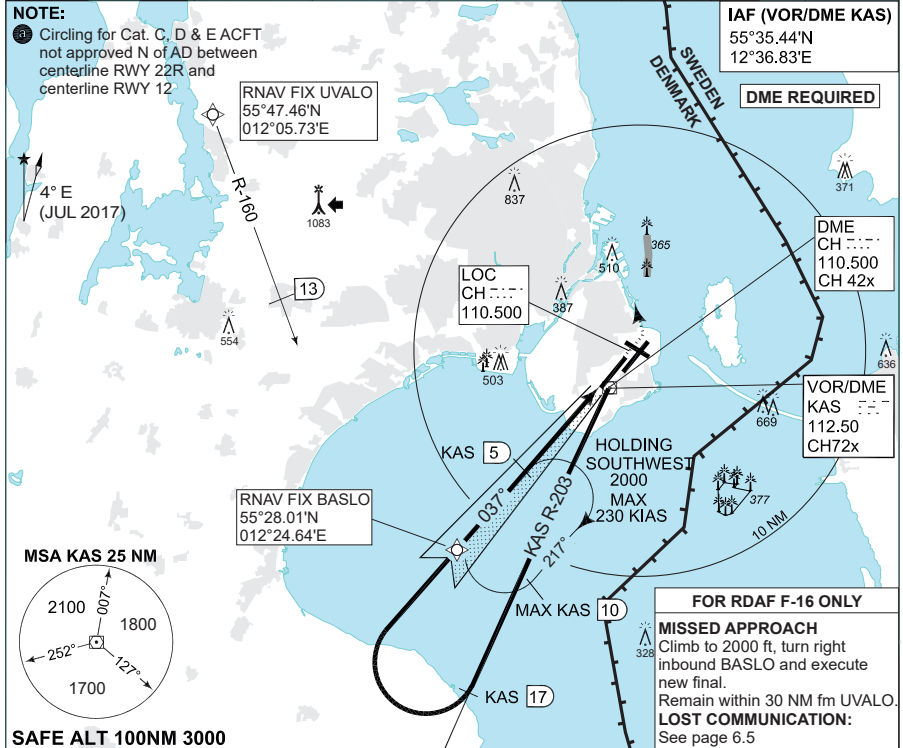
*) TUDLO is on KOR R-251/35.1 DME, PSN 55° 16.550'N 010° 38.867'E

***) TESPI is on TNO R-281/31.6 DME, PSN 55° 53.900'N 010° 31.867'E

MIPS INSTRUMENT APPROACH CHART

**ILS or LOC RWY 04L
KASTRUP (EKCH)**

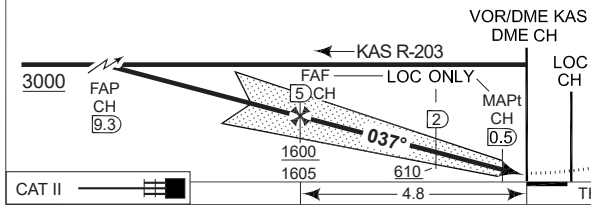
COPENHAGEN APPROACH 119.805		KASTRUP ATIS (ARRIVAL) 122.755		KASTRUP FINAL 120.205		KASTRUP TWR 118.105		KASTRUP APRON 121.630	
LOC/DME CH 110.50/CH42x		APP COURSE 037°		GS INTCP ALT 3000 FT		GS 3.00°		DA See minima	
						THR ELEV 13		ALS length 900 M	
								LDA 9842 FT	



SAFE ALT 100NM 3000

TA 5000	DME CH	9.3	8	7	6	5	4	3	2	1
RDH 49	DIST to THR	9.1	7.8	6.8	5.8	4.8	3.8	2.8	1.8	0.8
GS 3.0°	ALT	3000	2560	2240	1930	1610	1290	970	650	330

Radio communication failure during Missed Approach:
 Climb to 3000 ft according to missed approach procedure. Maintain 3000 ft and track for 3 min, then turn left to KAS VOR/DME for new approach.



MISSED APPROACH
 Climb straight ahead to 500 ft. Turn left to track 347° climbing to 3000 ft, inform ATC.

CATEGORY	A	B	C	D	E
ILS 04L CAT I	215 -550 202 (300-0.8/1.2)	227 -550 214 (300-0.8/1.2)	235 -550 222 (300-0.8/1.2)	246 -550 233 (300-0.8/1.2)	264 -600 251 (300-0.8/1.3)

S-LOC 04L **430** -1200 417 (500-1.2/1.9)

CIRCLING	550 -1.5 533 (600-1.5)	580 -1.6 563 (600-1.6)	790 -2.4 773 (800-2.4)	900 -3.6 883 (900-3.6)	1170 -3.6 1153 (1200-3.6)
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ILS or LOC RWY 04L **55°37.08'N** **012°39.36'E** **KASTRUP (EKCH)**



CHANGES: ATC FREQ.

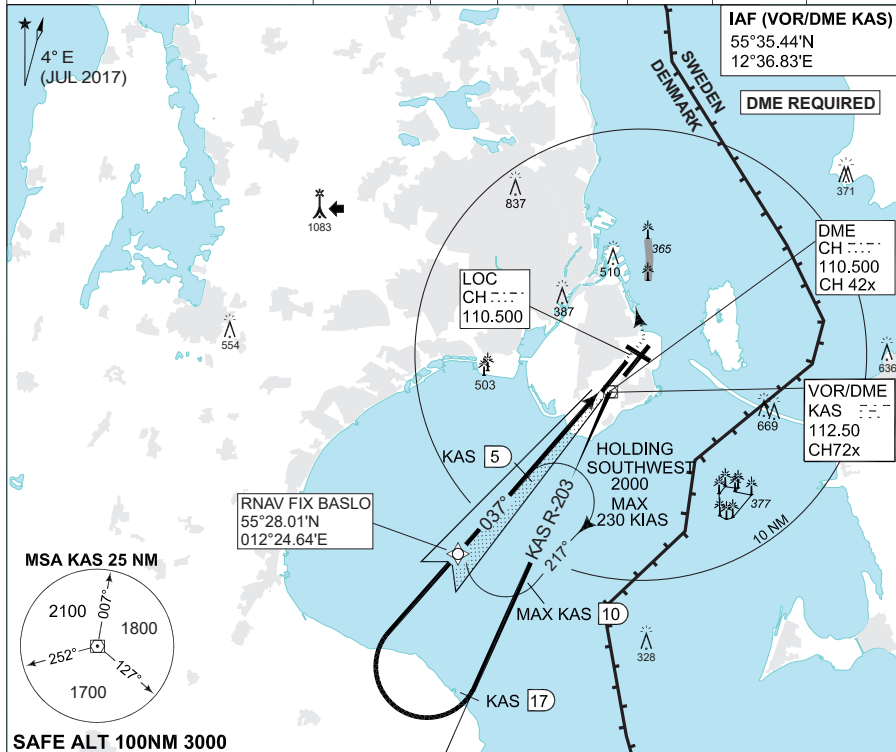
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MIPS INSTRUMENT APPROACH CHART

Cat. II ILS RWY 04L KASTRUP (EKCH)

AD ELEV 17

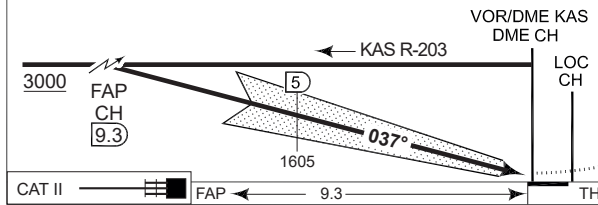
COPENHAGEN APPROACH 119.805	KASTRUP ATIS (ARRIVAL) 122.755	KASTRUP FINAL 120.205	KASTRUP TWR 118.105	KASTRUP APRON 121.630
LOC/DME CH 110.50/CH42x	APP COURSE 037°	GS INTCP ALT 3000 FT	GS 3.00°	DA See minima
			THR ELEV 13	ALS length 900 M
				LDA 9842 FT



SAFE ALT 100NM 3000

TA 5000	DME CH	9.3	8	7	6	5	4	3	2	1
RDH 49	DIST to THR	9.1	7.8	6.8	5.8	4.8	3.8	2.8	1.8	0.8
GS 3.0°	ALT	3000	2560	2240	1930	1610	1290	970	650	330

Radio communication failure during Missed Approach:
Climb to 3000 ft according to missed approach procedure. Maintain 3000 ft and track for 3 min, then turn left to KAS VOR/DME for new approach.



MISSED APPROACH
Climb straight ahead to 500 ft. Turn left to track 347° climbing to 3000 ft, inform ATC.

MIPS	CATEGORY	A	B	C	D	E
	ILS 04L CAT II	RA 102 (DA 113) -350 100	RA 106 (DA 117) -350 104	RA 120 (DA 131) -350 118		N/A

Cat. II ILS RWY 04L

55°37.08'N
012°39.36'E

KASTRUP (EKCH)

CHANGES: ATC FREQ.

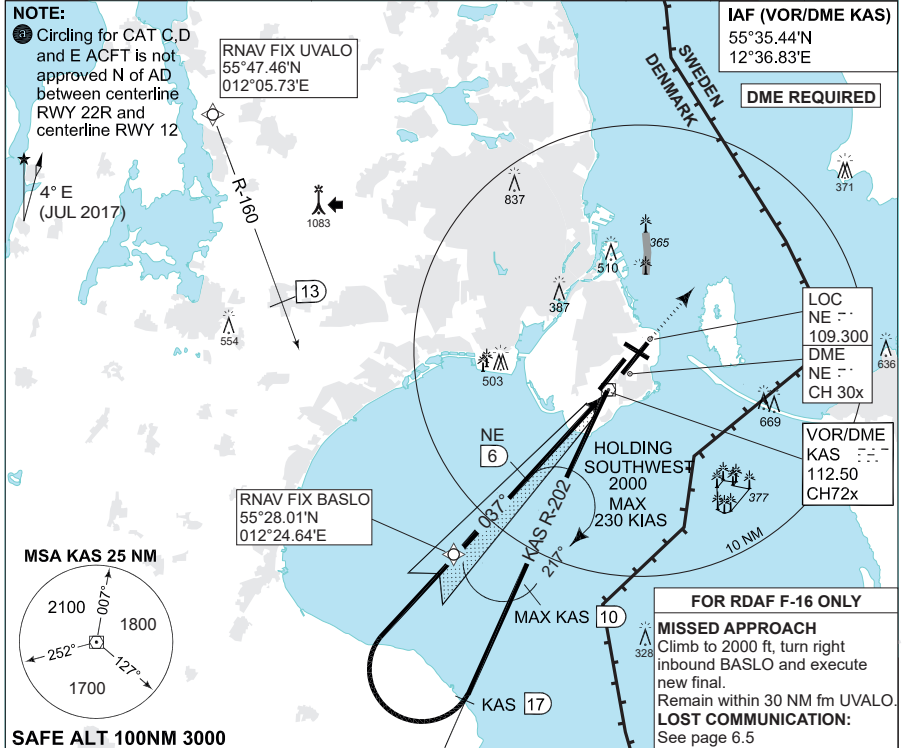
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MIPS INSTRUMENT APPROACH CHART

ILS or LOC RWY 04R KASTRUP (EKCH)

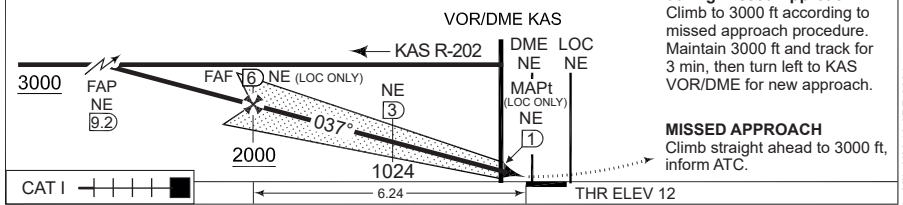
AD ELEV 17

COPENHAGEN APPROACH 119.805	KASTRUP ATIS (ARRIVAL) 122.755	KASTRUP FINAL 120.205	KASTRUP TWR 118.105	KASTRUP APRON 121.630
LOC/DME NE 109.300/CH30x	APP COURSE 037°	GS INTCP ALT 3000 FT	GS 3.00°	DA See minima
			THR ELEV 12	ALS length 730 M
				LDA 10833 FT



SAFE ALT 100NM 3000

TA 5000	DME NE	9.2	8	7	6	5	4	3	2	1		Note: DME NE reads zero at threshold
RDH 57	DIST to THR	9.2	8	7	6	5	4	3	2	1		
GS 3.0°	ALT	3000	2620	2300	1980	1670	1350	1030	710	390		



CATEGORY	A	B	C	D	E
ILS 04R CAT I	212 -550 200 (200-0.8/1.2)			215 -550 203 (300-0.8/1.2)	234 -550 222 (300-0.8/1.2)
S-LOC 04R	430 -1200 418 (500-1.2/1.9)				

CIRCLING	550	-1.5 533 (600-1.5)	580	-1.6 563 (600-1.6)	790	-2.4 773 (800-2.4)	900	-3.6 883 (900-3.6)	1170	-3.6 1153 (1200-3.6)
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ILS or LOC RWY 04R

55°37.08'N
012°39.36'E

KASTRUP (EKCH)



CHANGES: LDA

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MIPS INSTRUMENT APPROACH CHART

ILS or LOC RWY 22L KASTRUP (EKCH)

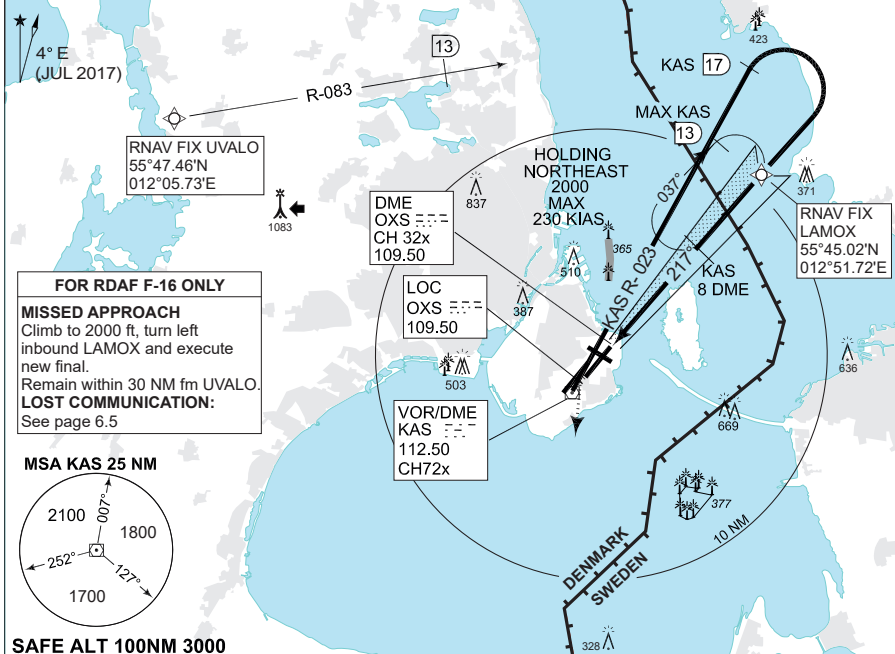
AD ELEV 17

COPENHAGEN APPROACH 119.805	KASTRUP ATIS (ARRIVAL) 122.755	KASTRUP FINAL 120.205	KASTRUP TWR 118.105	KASTRUP APRON 121.630
LOC/DME OX5 109.50/CH32x	APP COURSE 217°	GS INTCP ALT 3000 FT	GS 3.00°	DA See minima
			THR ELEV 8	ALS length 900 M
			LDA 10833 FT	

NOTE:

ⓐ Circling for Cat. C, D & E ACFT not approved N of AD between centerline RWY 22R and centerline RWY 12

IAF (VOR/DME KAS)
55°35.44'N
12°36.83'E

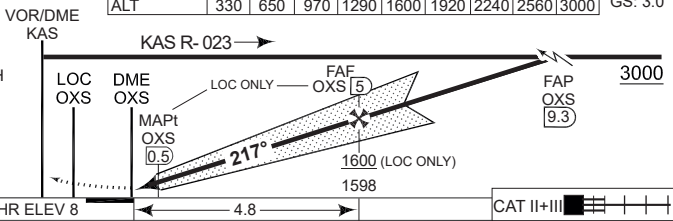


Radio communication failure during Missed Approach:

Climb to 3000 ft according to missed approach procedure. Maintain 3000 ft and track for 3 MIN, then turn left to KAS VOR/DME for new APCH

MISSED APPROACH
Climb straight ahead to 500 ft or OXS 1.0 DME past OXS DME, whichever is later. Turn left to track 187° climbing to 3000 ft. Inform ATC.

DME OXS	1	2	3	4	5	6	7	8	9.3	TA 5000
DIST to THR	0.8	1.8	2.8	3.8	4.8	5.8	6.8	7.8	9.1	RDH 53
ALT	330	650	970	1290	1600	1920	2240	2560	3000	GS: 3.0°



CATEGORY	A	B	C	D	E
ILS 22L CAT I	208 -550 200 (200-0.8/1.2)				
ILS 22L CAT II	RA 101 (DA 108) -350 100				N/A
S-LOC 22L	400 -1100 392 (400-1.1/1.8)				
CIRCLING ⓐ	550 -1.5 533 (600-1.5)	580 -1.6 563 (600-1.6)	790 -2.4 773 (800-2.4)	900 -3.6 883 (900-3.6)	1170 -3.6 1153 (1200-3.6)

ILS or LOC RWY 22L

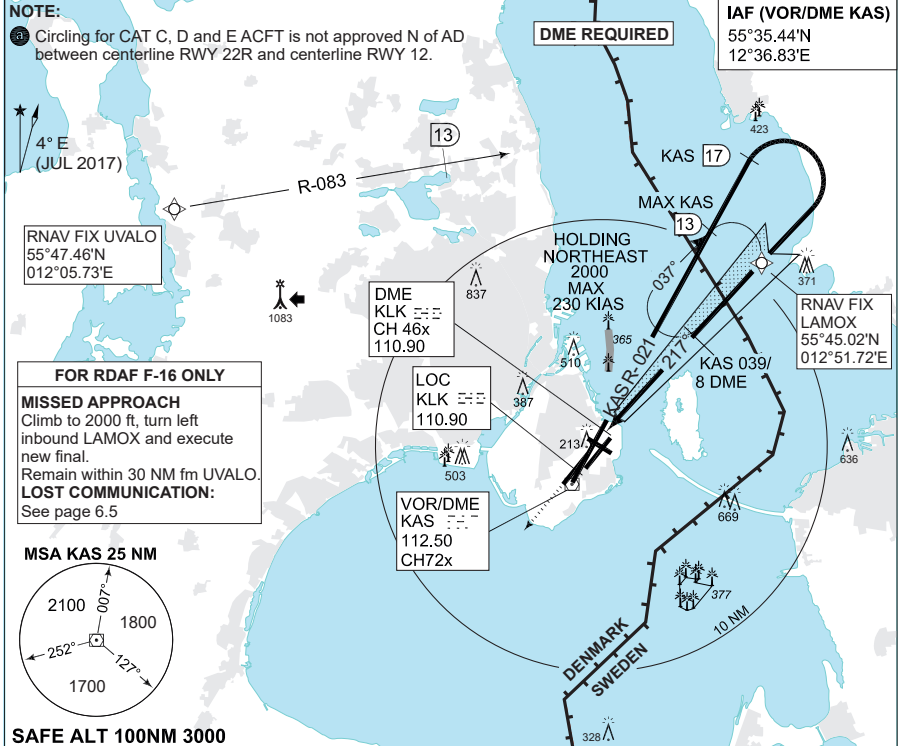
55°37.08'N
012°39.36'E
6-10

KASTRUP (EKCH)

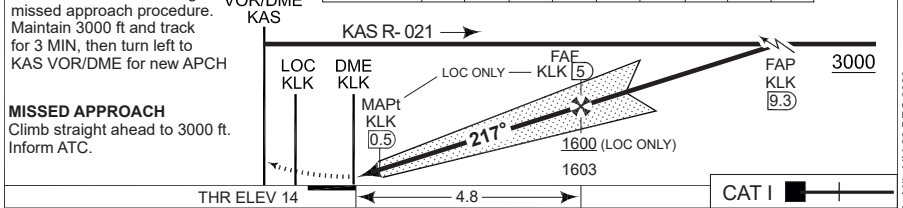
MIPS INSTRUMENT APPROACH CHART

ILS or LOC RWY 22R KASTRUP (EKCH)

COPENHAGEN APPROACH 119.805		KASTRUP ATIS (ARRIVAL) 122.755		KASTRUP FINAL 120.205		KASTRUP TWR 118.105		KASTRUP APRON 121.630	
LOC/DME KLK 110.90/CH46x		APP COURSE 217°		GS INTCP ALT 3000 FT		GS 3.00°		DA See minima	
						THR ELEV 14		ALS length 900 M	
								LDA 9842 FT	



Radio communication failure during Missed Approach: Climb to 3000 ft according to missed approach procedure. Maintain 3000 ft and track for 3 MIN, then turn left to KAS VOR/DME for new APCH	DME KLK	1	2	3	4	5	6	7	8	9.3	TA 5000 RDH 47 GS 3.0°
	DIST to THR	0.8	1.8	2.8	3.8	4.8	5.8	6.8	7.8	9.1	
	ALT	330	650	970	1290	1610	1930	2240	2560	3000	



CATEGORY	A	B	C	D	E
S-ILS 22R	214 -550 200 (200-0.8/1.2)		220 -550 206 (300-0.8/1.2)	230 -550 216 (300-0.8/1.2)	249 -550 235 (300-0.8/1.2)
S-LOC 22R	400 -1100 386 (400-1.1/1.8)				
CIRCLING ⓐ	550 -1.5 533 (600-1.5)	580 -1.6 563 (600-1.6)	790 -2.4 773 (800-2.4)	900 -3.6 883 (900-3.6)	1170 -3.6 1153 (1200-3.6)

ILS or LOC RWY 22R **KASTRUP (EKCH)**
 55°37.08'N
 012°39.36'E
 6-11

CHANGES: ATC FREQ.

MIPS

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EKCH

MIPS INSTRUMENT APPROACH CHART

**ILS or LOC RWY 12
KASTRUP (EKCH)**

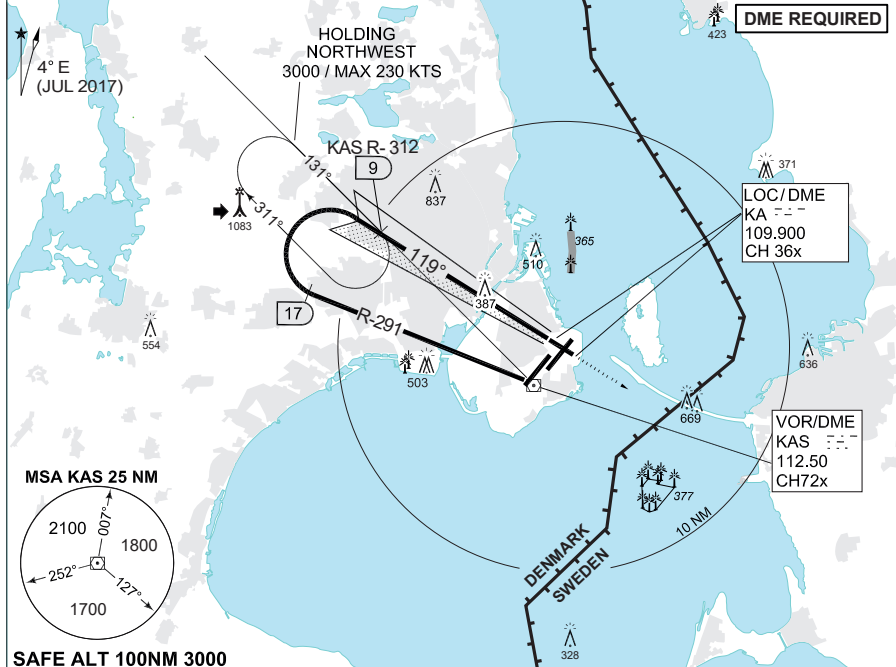
COPENHAGEN APPROACH 119.805		KASTRUP ATIS (ARRIVAL) 122.755		KASTRUP FINAL 120.205		KASTRUP TWR 118.105		KASTRUP APRON 121.630	
LOC/DME KA 109.90/CH36x		APP COURSE 119°		GS INTCP ALT 3000 FT		GS 3.00°		DA See minima	
						THR ELEV 13		ALS length 900 M	
								LDA 7759 FT	

NOTE:

⦿ Circling for CAT C, D and E ACFT is not approved N of AD between centerline RWY 22R and centerline RWY 12.

IAF (VOR/DME KAS)
55°35.44'N
12°36.83'E

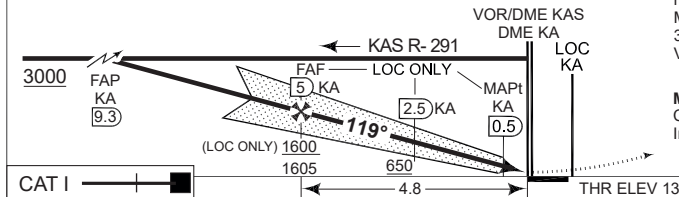
DME REQUIRED



TA 5000	DME KA	9.3	8	7	6	5	4	3	2	1
RDH 49	DIST to THR	9.1	7.8	6.8	5.8	4.8	3.8	2.8	1.8	0.8
GS 3.0°	ALT	3000	2560	2250	1930	1610	1290	970	650	330

Radio communication failure during Missed Approach:
Climb to 3000 ft according to missed approach procedure. Maintain 3000 ft and track for 3 min, then turn left to KAS VOR/DME for new approach.

MISSED APPROACH
Climb straight ahead to 3000 ft. Inform ATC.



CATEGORY	A	B	C	D	E
S-ILS/DME 12	213 -550 200 (200-0.8/1.2)	220 -550 207 (300-0.8/1.2)	228 -550 215 (300-0.8/1.2)	239 -550 226 (300-0.8/1.2)	256 -550 243 (300-0.8/1.2)

MIPS **S-LOC/DME 12** **430** -1200 417 (500-1.2/1.9)

CIRCLING ⦿	550 -1.5 533 (600-1.5)	580 -1.6 563 (600-1.6)	790 -2.4 773 (800-2.4)	900 -3.6 883 (900-3.6)	1170 -3.6 1153 (1200-3.6)
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ILS or LOC RWY 12

55°37.08'N
012°39.36'E
6-12

KASTRUP (EKCH)

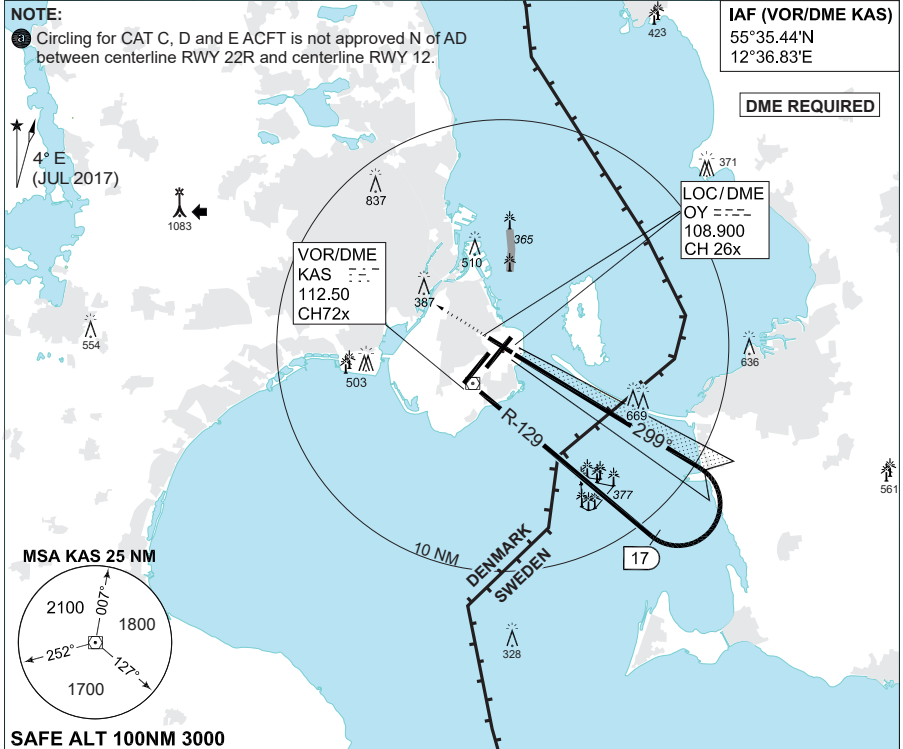
CHANGES: ATC FREQ.

AIR COMMAND DENMARK - MIL-AIM 28 DEC 2023

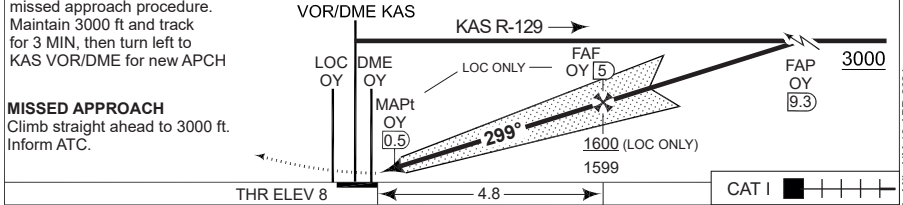
MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 30
KASTRUP (EKCH)

COPENHAGEN APPROACH 119.805		KASTRUP ATIS (ARRIVAL) 122.755		KASTRUP FINAL 120.205		KASTRUP TWR 118.105		KASTRUP APRON 121.630	
LOC/DME OY 108.90/CH26x		APP COURSE 299°		GS INTCP ALT 3000 FT		GS 3.00°		DA See minima	
						THR ELEV 8		ALS length 900 M	
								LDA 6873 FT	



Radio communication failure during Missed Approach: Climb to 3000 ft according to missed approach procedure. Maintain 3000 ft and track for 3 MIN, then turn left to KAS VOR/DME for new APCH	DME OY	1	2	3	4	5	6	7	8	9.3	TA 5000 RDH 49 GS 3.0°
	DIST to THR	0.8	1.8	2.8	3.8	4.8	5.8	6.8	7.8	9.1	
	ALT	330	650	970	1290	1600	1920	2240	2560	3000	



CATEGORY	A	B	C	D	E
S-ILS/DME 30	208 -550 200 (200-0.8/1.2)	214 -550 206 (300-0.8/1.2)	222 -550 214 (300-0.8/1.2)	233 -550 225 (300-0.8/1.2)	251 -550 243 (300-0.8/1.2)
S-LOC/DME 30	420 -1200 412 (500-1.2/1.9)			430 -1300 422 (500-1.3/2.0)	
CIRCLING	550 -1.5 533 (600-1.5)	580 -1.6 563 (600-1.6)	790 -2.4 773 (800-2.4)	900 -3.6 883 (900-3.6)	1170 -3.6 1153 (1200-3.6)

ILS or LOC RWY 30

55°37.08'N
012°39.36'E

KASTRUP (EKCH)

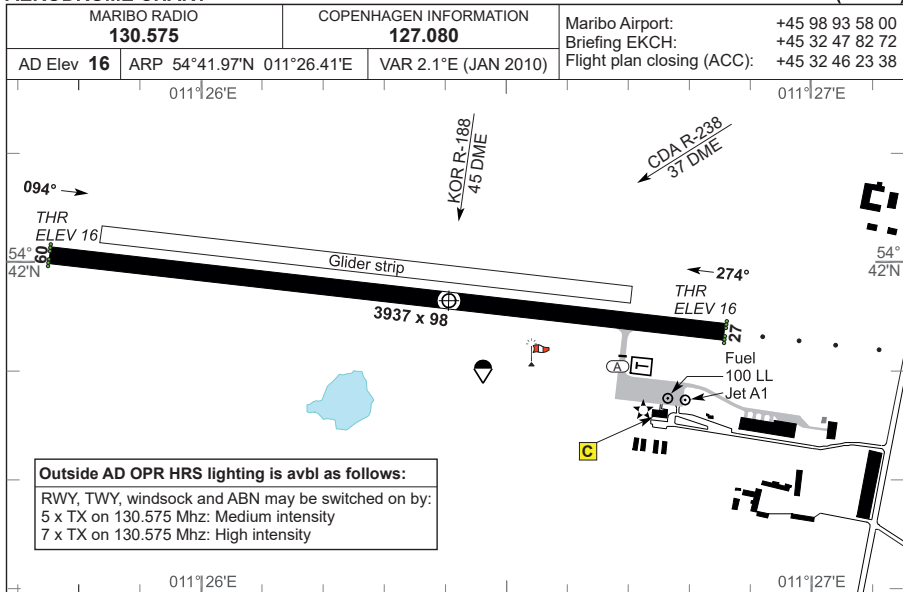
INTENTIONALLY

LEFT

BLANK

AERODROME CHART

LOLLAND FALSTER / MARIBO (EKMB)



RWY	PCN	DECLARED DISTANCES				THR ELEV	RWY LIGHTING					THR PSN	
		TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE		END
09	13 F/D/Y/T	3937	3937	3937	3937	16	LIH	N/A			LIH	LIH	54°42.01'N 011°25.75'E
27	13 F/D/Y/T	3937	3937	3937	3937	16	LIH	N/A			LIH	LIH	54°41.93'N 011°26.86'E

Approved for VMC day and VFR night operations. Self-service when ADO is closed. See VFR Flight Guide Denmark for opening hours.
 Fuel available only after prior arrangement. Payment: DKK or EURO.
 Customs available inside ADO hours. 1 hour PN.
 Rescue and Fire Fighting Service not available.
 Gliding and parachuting may take place.

Local Regulations/Remarks

- After TKOF VFR from RWY 27 turn towards NW as early as safety permits, but not later than 500 FT. Turn towards S must at the earliest be commenced after passing through 1000 FT or when the road W of Rødby has been passed. The built-up areas Nebbelunde, Rødby and Sædinge shall be passed at the greatest distance possible. After TKOF from RWY 09 the built-up areas Holeby and Torslunde shall be passed at the greatest distance possible.
- School and training flights are not permitted after 1900 Danish time.
- All turns in connection with VFR landing exercises shall take place S of RWY 09/27. After TKOF turns towards S shall take place as early as safety permits, but not later than 500 FT.
- Parachuting may take place.
- Launching of gliders by cable may take place. When gliding is taking place, overflying the aerodrome should be avoided below 2000 FT MSL.
- Gliders shall use frequency 130.575 during take off / landing and traffic circuit.

CHANGES: CPH INFO FRECO CHG.

AIR COMMAND DENMARK - MIL_AIM_02 NOV 2023

AERODROME CHART

MARIBO (EKMB)

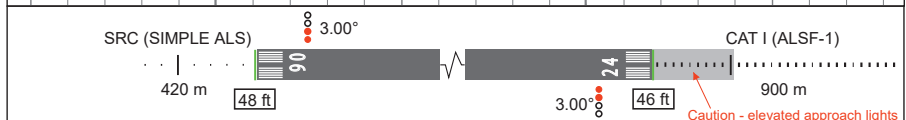
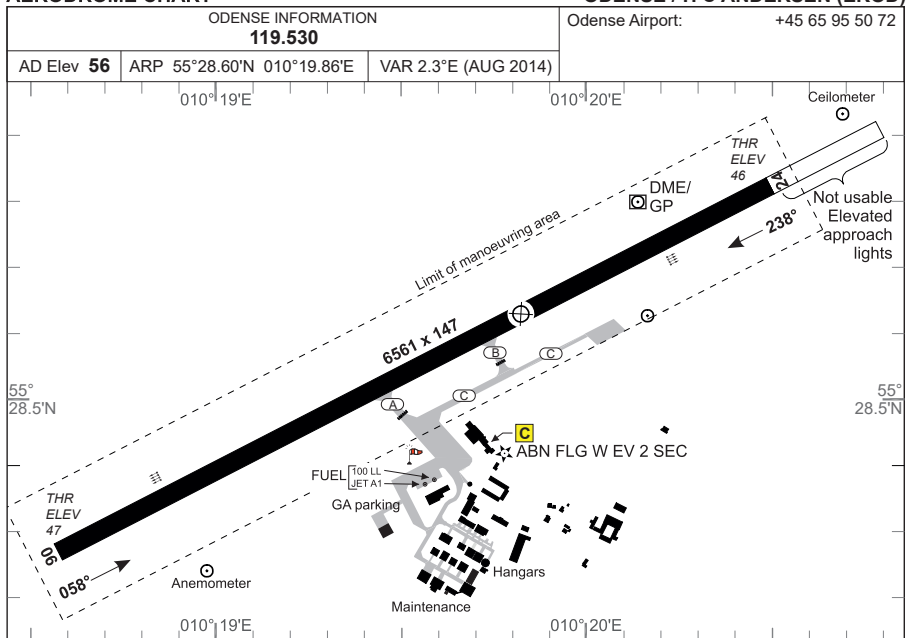
INTENTIONALLY

LEFT

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AERODROME CHART

ODENSE / H C ANDERSEN (EKOD)



RWY	PCN	DECLARED DISTANCES				THR ELEV	RWY LIGHTING					THR PSN	
		TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE		END
06		6561	6561	6561	6561	47	LIH	3°			LIH		55°28.25'N 10°18.79'E
A	50 R/D/X/U	3628	3628	3628									
B		2650	2650	2650									
24		6561	6561	6561	6561	46	LIH	3°			LIH	LIH	55°28.79'N 10°20.43'E
B	50 R/D/X/U	3959	3959	3959									
A		2998	2998	2998									

AD PPR outside OPS hours. Request to be submitted not later than 1 hour before termination of service. Self-service AVBL for aircraft MTOW blw 2000 kg. VFR outside opening hours. Contact to EKOD outside Service Hours phone manned from 0600-2200 local time on TEL +45 65 95 50 72. NOTE: Opening charge will be collected outside regular Service Hours.

Parachuting may take place. Drone operation may take place. Check NOTAM for EK R25 and EK R26.

FLIGHT PROCEDURES

1. IFR Arrival
 - 1.1 Aircraft will normally be cleared by ACC KØBENHAVN to OD24F HOLDING.
 - 1.2 Navigation aid designated for radio communication failure during IMC for arriving aircraft is NDB FE.
2. IFR Departure
 - 2.1 Standard Instrument Departures (SID) have not been established.
 - 2.2 Omnidirectional departures:
 - RWY 06/24: Climb straight ahead to at least 700 FT MSL before turn is commenced.

MIPS		CIRCLING MINIMA (North of AD only)				
A	B	C	D	E		
500	550	790	790	890		
-1.5 444 (500-1.5)	-1.6 494 (500-1.6)	-2.4 734 (800-2.4)	-3.6 734 (800-3.6)	-3.6 834 (900-3.6)		

AERODROME CHART

ODENSE / H C ANDERSEN (EKOD)



CHANGES: ODENSE INFORMATION FREQ. CHANGED.

AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

NOISE ABATEMENT PROCEDURES

Noise abatement provision

1. Flights in the periods 2200-2300 (2100-2200) and 0500-0600 (0400-0500):
In the periods 2200-2300 (2100-2200) and 0500-0600 (0400-0500) the airport may be used by the following aircraft:

- Aeroplanes and helicopters with MTOM not exceeding 5700 KG.
- Propeller aeroplanes with MTOM below 9000 KG and noise certified according to ICAO annex 16, chapter 6 or chapter 10.
- Jet and turboprop aeroplanes (irrespective of MTOM) certified according to ICAO Annex 16, chapter 3 and which fulfil the lower limits of the requirements (flyover 89 EPNdB, lateral 94 EPNdB and Approach 98 EPNdB).

The number of those operations is limited to 100 per month.

2. Noise abatement provisions for ACFT with MTOM above 5700 KG.

3.1 Take-off RWY06:

- Departure towards ALSIE VOR: Turn right – VOR ODN R-229 – VOR ALS R-010 to ALSIE VOR.

3.2 Take-off RWY24:

- Right turn must not be commenced until after VOR/DME ODN R-239/15NM.
- Departure towards ALSIE VOR: Left turn must not be commenced until after VOR/DME ODN R-239/16NM.
- Departure towards TRANO VOR and KORSA VOR: Left turn must not be commenced until after VOR/DME ODN R-239/14NM if the aeroplane in question is a jet aeroplane noise certified according to ICAO Annex 16, chapter 2.

3. School and training flights:

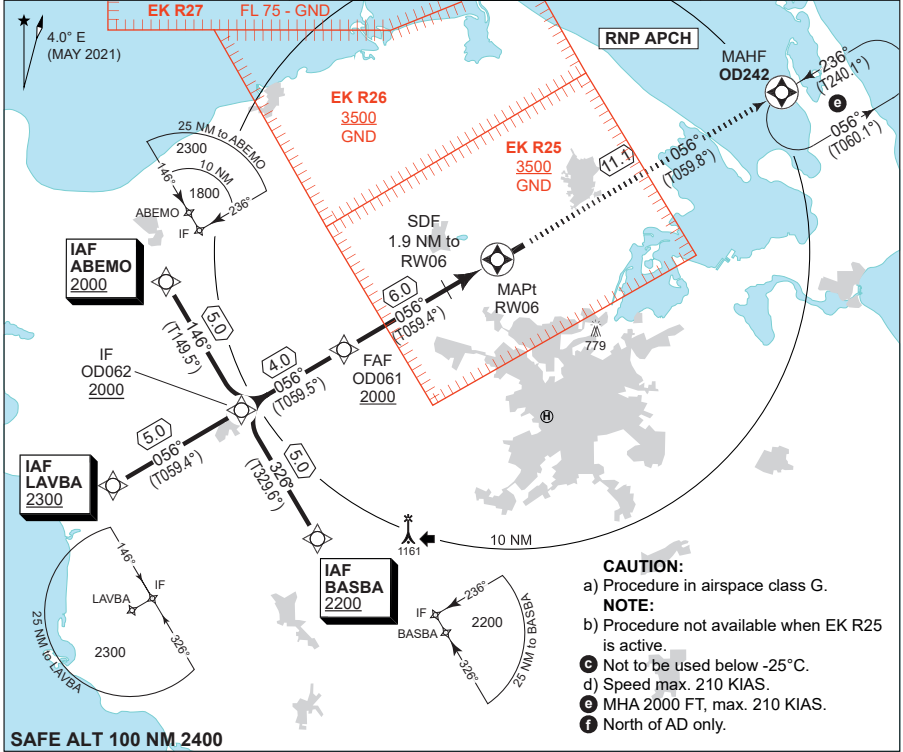
School and training flights are permitted in the period 0600-2200 (0500-2100). For big jet aeroplanes (MTOM above 34000 KG or with more than 19 seats) school and training flights are permitted only MON-FRI EXC HOL in the period 0600-2100 (0500-2000). Due to environmental reasons traffic circuits in connection with landing exercises RWY 06/24 shall take place alternately north and south of the runway. PPR to be submitted within operational hours.

MIPS
INSTRUMENT APPROACH CHART

AD ELEV 56

RNP RWY 06
ODENSE / H C ANDERSEN (EKOD)

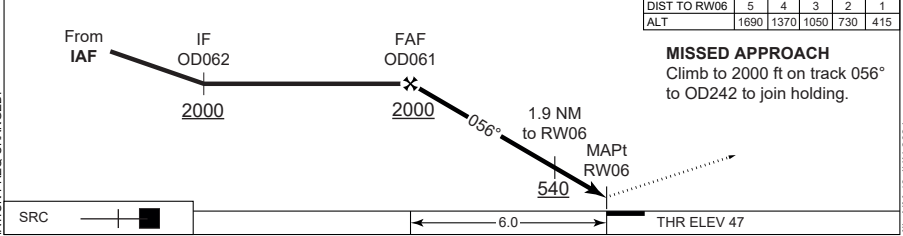
COPENHAGEN CONTROL 360.100 133.150			ODENSE INFORMATION 119.530				
EGNOS CHANNEL 49463 / E06A	APP COURSE 056°	FAF ALT 2000 FT	DESCENT GR 3.0° (5.24%)	DA 297	THR ELEV 47	ALS LENGTH 900 M	LDA 6053 FT



SAFE ALT 100 NM 2400

- CAUTION:**
a) Procedure in airspace class G.
NOTE:
b) Procedure not available when EK R25 is active.
c) Not to be used below -25°C.
d) Speed max. 210 KIAS.
e) MHA 2000 FT, max. 210 KIAS.
f) North of AD only.

TA 3000



CDFA: 3.00° / 5.24%					
DIST TO RW06	5	4	3	2	1
ALT	1690	1370	1050	730	415

MISSED APPROACH
Climb to 2000 ft on track 056° to OD242 to join holding.

CATEGORY	A	B	C	D	E
LPV	297 - 600 250 (300-0.8/1.3)				
LNAV/VNAV c	340 - 650 293 (300-0.8/1.4)	350 - 700 303 (400-0.8/1.4)	360 - 700 313 (400-0.8/1.4)	370 - 800 323 (400-0.8/1.5)	380 - 800 333 (400-0.8/1.5)
LNAV	450 - 1200 403 (500-1.2/1.9)				
CIRCLING f	500 - 1.5 444 (500-1.5)	550 - 1.6 494 (500-1.6)	790 - 2.4 734 (800-2.4)	790 - 3.6 734 (800-3.6)	890 - 3.6 834 (900-3.6)

RNP RWY 06

55°28.60'N
010°19.86'E
8-3

ODENSE / H C ANDERSEN (EKOD)

EKOD

CHANGES: ODENSE INFORMATION FREQ. CHANGED.

AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

EKOD RNP RWY 06 waypoint coordinates:**RWY 06 from ABEMO (Initial LEFT) APPROACH RNP**

		CODING	DISPLAY
ABEMO	IAF	55 27 31.03N 009 59 14.01E	55°27.517'N 009°59.233'E
OD062	IF	55 23 13.00N 010 03 41.13E	55°23.217'N 010°03.685'E
OD061	FAF	55 25 14.28N 010 09 44.17E	55°25.238'N 010°09.736'E
RW06	MAPt	55 28 14.82N 010 18 47.44E	55°28.247'N 010°18.791'E
OD242	MAHF	55 33 47.32N 010 35 36.95E	55°33.789'N 010°35.616'E

RWY 06 from BASBA (Initial RIGHT) APPROACH RNP

		CODING	DISPLAY
BASBA	IAF	55 18 54.81N 010 08 07.28E	55°18.913'N 010°08.121'E
OD062	IF	55 23 13.00N 010 03 41.13E	55°23.217'N 010°03.685'E
OD061	FAF	55 25 14.28N 010 09 44.17E	55°25.238'N 010°09.736'E
RW06	MAPt	55 28 14.82N 010 18 47.44E	55°28.247'N 010°18.791'E
OD242	MAHF	55 33 47.32N 010 35 36.95E	55°33.789'N 010°35.616'E

RWY 06 from LAVBA (Initial CENTER) APPROACH RNP

		CODING	DISPLAY
LAVBA	IAF	55 20 40.98N 009 56 08.20E	55°20.683'N 009°56.137'E
OD062	IF	55 23 13.00N 010 03 41.13E	55°23.217'N 010°03.685'E
OD061	FAF	55 25 14.28N 010 09 44.17E	55°25.238'N 010°09.736'E
RW06	MAPt	55 28 14.82N 010 18 47.44E	55°28.247'N 010°18.791'E
OD242	MAHF	55 33 47.32N 010 35 36.95E	55°33.789'N 010°35.616'E

Threshold coordinates RWY 06

		CODING	DISPLAY
RWY 06		55 28 14.82N 010 18 47.44E	55°28.247'N 010°18.791'E

MIPS

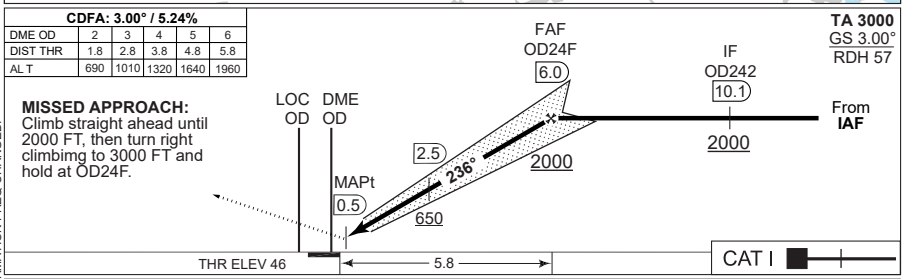
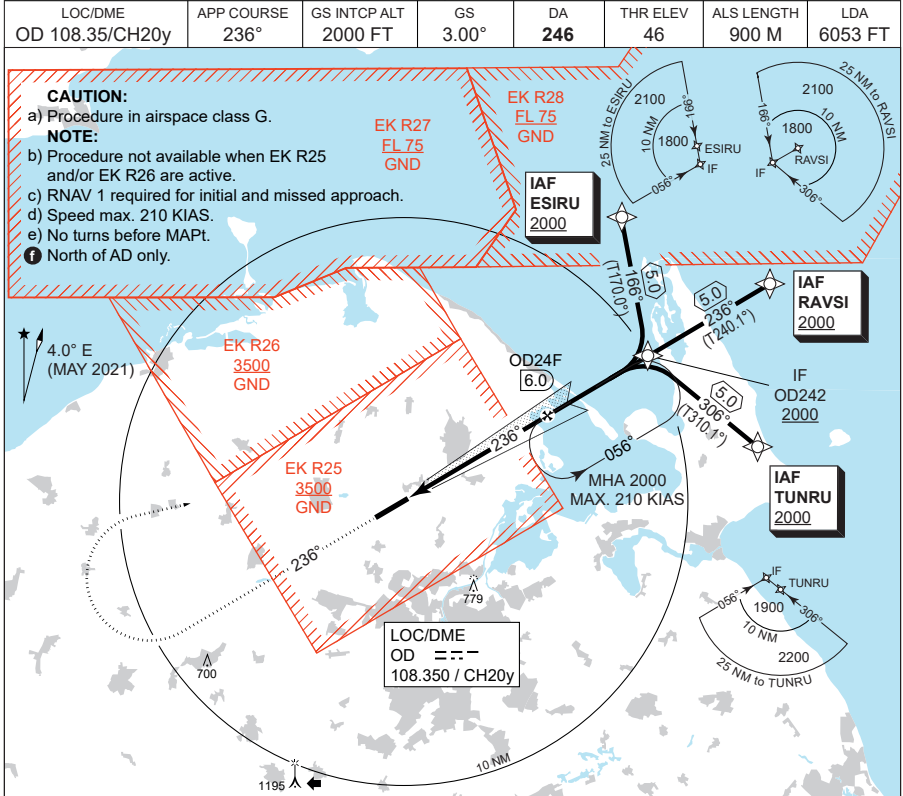
INSTRUMENT APPROACH CHART

AD ELEV 56

ILS or LOC RWY 24

ODENSE / H C ANDERSEN (EKOD)

COPENHAGEN CONTROL 360.100 133.150				ODENSE INFORMATION 119.530			
LOC/DME OD 108.35/CH20y	APP COURSE 236°	GS INTCP ALT 2000 FT	GS 3.00°	DA 246	THR ELEV 46	ALS LENGTH 900 M	LDA 6053 FT



CATEGORY	A	B	C	D	E	
S-ILS 24		246 - 550 200 (200-0.8/1.2)				
S-LOC 24		380 - 800 334 (400-0.8/1.5)				
CIRCLING f	500 - 1.5 444 (500-1.5)	550 - 1.6 494 (500-1.6)	790 - 2.4 734 (800-2.4)	790 - 3.6 734 (800-3.6)	890 - 3.6 834 (900-3.6)	

ILS or LOC RWY 24 **ODENSE / H C ANDERSEN (EKOD)**

55°28.60'N
 010°19.86'E
 8-5

EKOD

CHANGES: ODENSE INFORMATION FREQ CHANGED.

AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

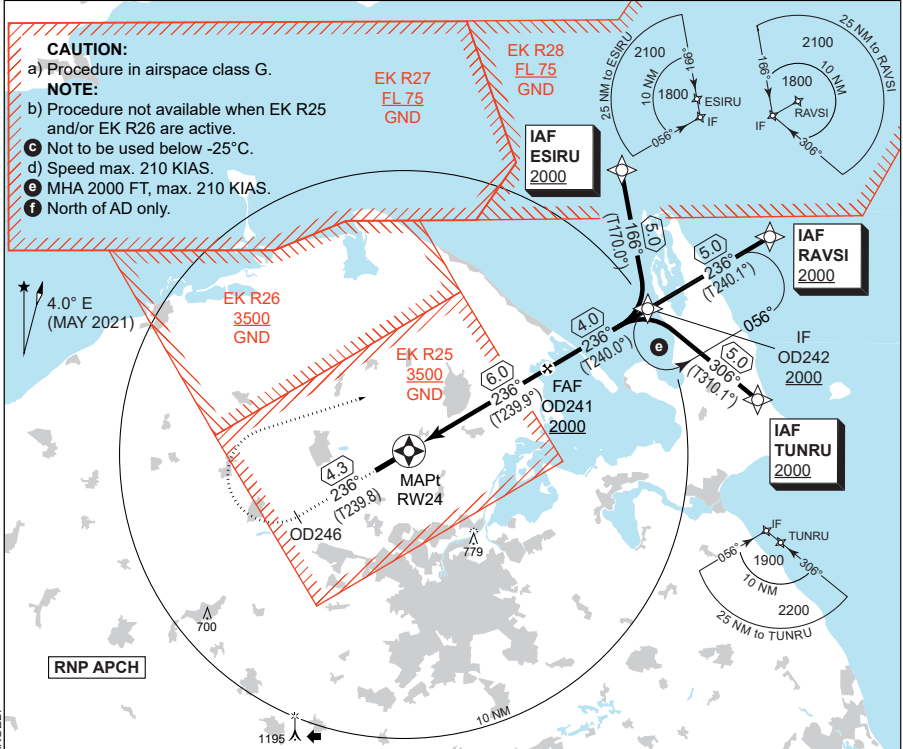
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 56

RNP RWY 24
ODENSE / H C ANDERSEN (EKOD)

COPENHAGEN CONTROL 360.100 133.150				ODENSE INFORMATION 119.530			
EGNOS CHANNEL 67257 / E24A	APP COURSE 236°	FAF ALT 2000 FT	DESCENT GR 3.0° (5.24%)	DA 296	THR ELEV 46	ALS LENGTH 900 M	LDA 6053 FT



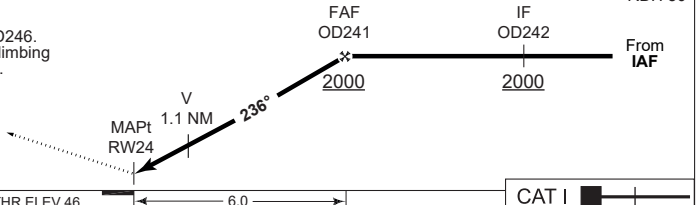
RNP APCH

CDFA: 3.00° / 5.24%

DIST RW24	1	2	3	4	5
ALT	415	730	1050	1370	1690

TA 3000
GS 3.0°
RDH 50

MISSED APPROACH:
Climb on track 236° to OD246.
Turn right direct OD242 climbing to 2000 FT to join holding.



CATEGORY	A	B	C	D	E
LPV	296 - 600 250 (300-0.8/1.3)				
LNAV/VNAV c	340 - 650 294 (300-0.8/1.4)	350 - 700 304 (400-0.8/1.4)	360 - 700 314 (400-0.8/1.4)	370 - 800 324 (400-0.8/1.5)	380 - 800 334 (400-0.8/1.5)
LNAV	450 - 1200 404 (500-1.2/1.9)				
CIRCLING f	500 - 1.5 444 (500-1.5)	550 - 1.6 494 (500-1.6)	790 - 2.4 734 (800-2.4)	790 - 3.6 734 (800-3.6)	890 - 3.6 834 (900-3.6)

RNP RWY 24

55°28.60'N
010°19.86'E
8-6

ODENSE / H C ANDERSEN (EKOD)

CHANGES: ODENSE INFORMATION FREQ. CHANGED. PAGE NUMBER CHANGED.

AIR COMMAND DENMARK - MIL. AIM 13 JUN 2024

EKOD RNP RWY 24 waypoint coordinates:

RWY 24 from TUNRU (Initial LEFT) APPROACH RNP

		CODING	DISPLAY
TUNRU	IAF	55 30 34.74N 010 42 21.25E	55°30.579'N 010°42.354'E
OD242	IF	55 33 47.32N 010 35 36.95E	55°33.789'N 010°35.616'E
OD241	FAF	55 31 47.33N 010 29 31.28E	55°31.789'N 010°29.521'E
RW24	MAPt	55 28 47.38N 010 20 25.78E	55°28.790'N 010°20.430'E
OD242	MAHF	55 33 47.32N 010 35 36.95E	55°33.789'N 010°35.616'E

RWY 24 from ESIRU (Initial RIGHT) APPROACH RNP

		CODING	DISPLAY
ESIRU	IAF	55 38 42.17N 010 34 04.84E	55°38.703'N 010°34.081'E
OD242	IF	55 33 47.32N 010 35 36.95E	55°33.789'N 010°35.616'E
OD241	FAF	55 31 47.33N 010 29 31.28E	55°31.789'N 010°29.521'E
RW24	MAPt	55 28 47.38N 010 20 25.78E	55°28.790'N 010°20.430'E
OD242	MAHF	55 33 47.32N 010 35 36.95E	55°33.789'N 010°35.616'E

RWY 24 from RAVSI (Initial CENTER) APPROACH RNP

		CODING	DISPLAY
RAVSI	IAF	55 36 16.88N 010 43 14.91E	55°36.281'N 010°43.249'E
OD242	IF	55 33 47.32N 010 35 36.95E	55°33.789'N 010°35.616'E
OD241	FAF	55 31 47.33N 010 29 31.28E	55°31.789'N 010°29.521'E
RW24	MAPt	55 28 47.38N 010 20 25.78E	55°28.790'N 010°20.430'E
OD242	MAHF	55 33 47.32N 010 35 36.95E	55°33.789'N 010°35.616'E

Threshold coordinates RWY 24

	CODING	DISPLAY
RWY 24	55 28 47.38N 010 20 25.78E	55°28.790'N 010°20.430'E

CHANGES: PAGE NUMBER CHANGED TO 8-7.

AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

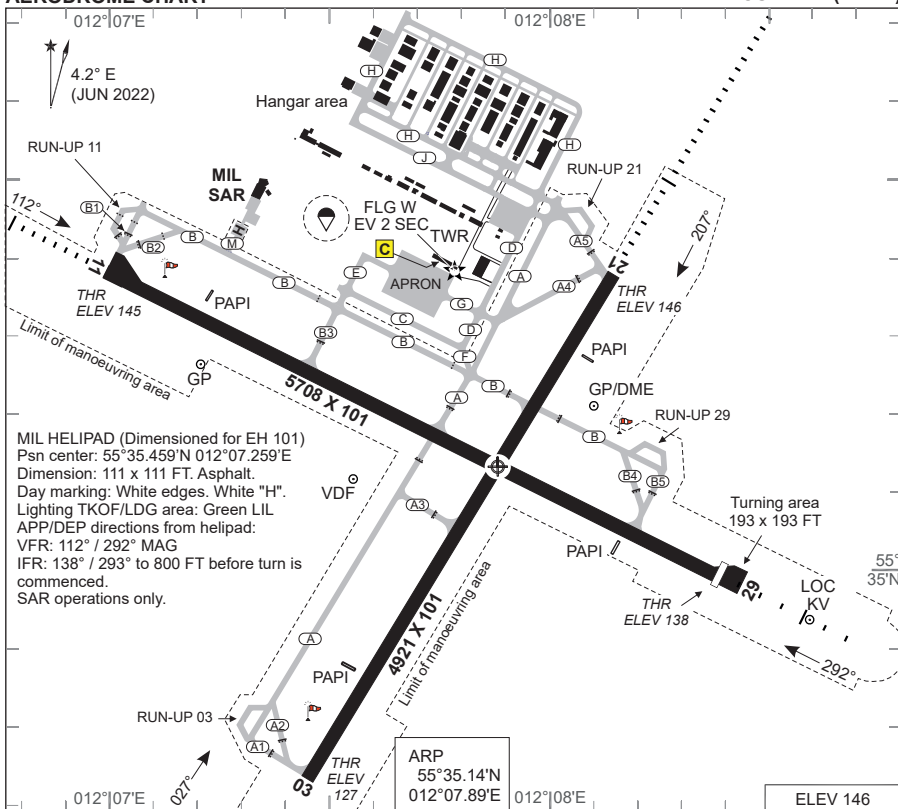
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AERODROME CHART

ROSKILDE (EKRK)



CHANGES: DECLARED DISTANCES ADJUSTED.

RWY	PCN	DECLARED DISTANCES					THR ELEV	RWY LIGHTING					THRPSN	
		PSN	TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE		END
03	30F/C/X/T	A1/2	4921	4921	4921	4921	127	LIH	3°			LIH	LIH	55°34.70'N 012°07.43'E
		A3	2486	2486	2486							LIH	LIH	55°35.40'N 012°08.16'E
21	36F/C/X/T	A4/5	4921	4921	4921	4921	146	LIH	3°			LIH	LIH	55°34.98'N 012°08.42'E
		B	3664	3664	3664									
11	36F/C/X/T	B1/2	5708	5708	5902	5708	145	LIH	3°			LIH	LIH	55°35.40'N 012°06.94'E
		B3	3864	3864	4058									
		A	2673	2673	2867									
		A	5902	5902	5902	5708	138	LIH	3°			LIH	LIH	55°34.98'N 012°08.42'E
29	36F/C/X/T	B4/5	4921	4921	4921									
		A	3083	3083	3083									

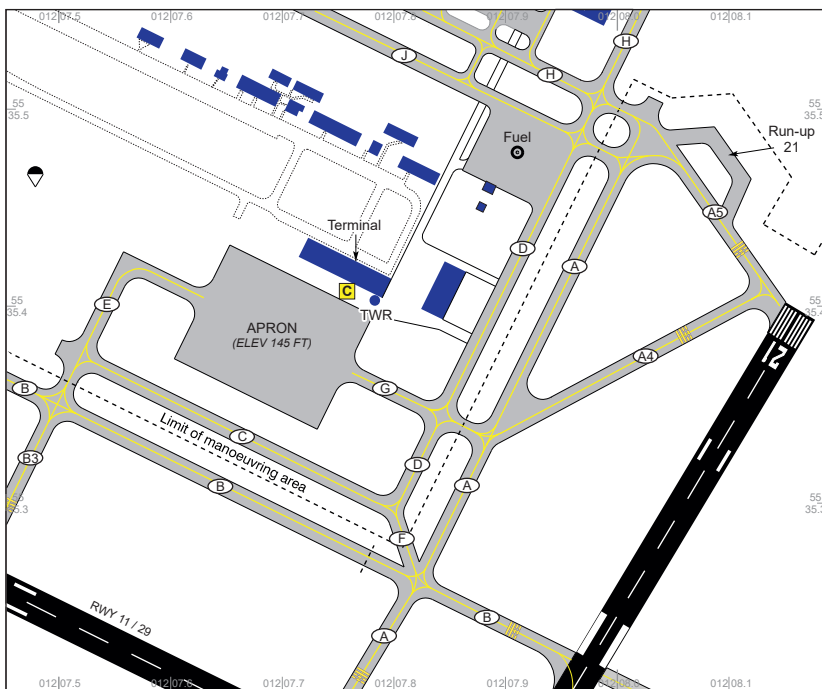
ROSKILDE ATIS 123.805 ROSKILDE TWR 118.905 (119.655) ROSKILDE APP 125.530 ROSKILDE HANDLING 131.555 (Handling, FPL etc.) COPENHAGEN INFORMATION 127.080 (Civil)	TAXI REGULATIONS Incoming traffic shall taxi via TWY C and TWY D, and outgoing traffic via TWY A and TWY B unless otherwise instructed by ATC.
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AIR COMMAND DENMARK - MIL_AIM_18 APR 2024

AERODROME CHART

ROSKILDE (EKRK)

ROSkilde OPERATIONS

**1. GENERAL**

Noise Abatement Provisions at EKRK are strict and comprehensive. Consult page 9-4 through 9-6 Noise Abatement Provisions before flight.

2. TAXI REGULATIONS

Incoming traffic shall taxi via TWY C and TWY D, and outgoing traffic via TWY A and TWY B unless otherwise instructed by ATC. ("IN via INNER" and "OUT via OUTER").

3. REDUCTION OF LANDING DISTANCE AVAILABLE

In order to increase the runway capacity, the Landing Distance Available can be reduced for arriving aircraft.

When the Landing Distance Available has been reduced for a landing aircraft on runway 03 this runway may simultaneously be crossed by departing, landing or taxiing aircraft on runway 11/29 and by taxiing aircraft on taxiway Bravo.

When the Landing Distance Available has been reduced for a landing aircraft on runway 11 this runway may simultaneously be crossed by departing, landing or taxiing aircraft on runway 03/21.

Air Traffic Control will assess in which cases the procedures for reduction of Landing Distance Available can be applied. However, the Pilot-in-Command of the aircraft involved is responsible for determining whether the reduced Landing Distance Available in the actual situation is adequate for the aircraft in question.

The procedure for reduction of Landing Distance Available, will be used on the following conditions:

- a) Landing Distance Available is reduced only during the daily period for VFR flights.
- b) Landing Distance Available is reduced only when visual meteorological conditions (VMC) exists, and only when the pilots in command of the aircraft involved are able to see the other aircraft
- c) If reduced braking action, due to e.g. rain or slush, is not reported and if measured, the coefficient, is 0.40 or above.
- d) Two-way radio communication must be established between Roskilde Tower and the aircraft involved on the same frequency.
- e) The landing aircraft will in due time be asked whether the reduction of the Landing Distance Available is acceptable.

Following phraseology will be used:

For Runway 03: "CONFIRM ABLE TO ACCEPT A SHORT LANDING RUNWAY 03, SO AS TO STOP THE AIRCRAFT NOT LATER THAN TAXIWAY A3. LANDING DISTANCE AVAILABLE 740 METRES".

For Runway 11: "CONFIRM ABLE TO ACCEPT A SHORT LANDING RUNWAY 11, SO AS TO STOP THE AIRCRAFT NOT LATER THAN TAXIWAY A. LANDING DISTANCE AVAILABLE 940 METRES".

- f) Traffic information will be issued to both aircraft involved.
- g) Involved aircraft must be in sight from Roskilde Tower from the time, where traffic information are issued and until landing.
- h) Landing clearance will be issued with following phraseology:
For Runway 03: "STOP THE AIRCRAFT NOT LATER THAN TAXIWAY A3, RUNWAY 03 CLEARED TO LAND".
For Runway 11: "STOP THE AIRCRAFT NOT LATER THAN TAXIWAY A, RUNWAY 11 CLEARED TO LAND".
- i) The condition as well as the clearance must be read back by the landing aircraft.

NOISE ABATEMENT PROVISIONS

1.1 General provisions

1.1.1 Deviations from the Noise Abatement Provisions are permitted when necessary in connection with:

- Take-off and landing for vital flights, such as **search and rescue, hospital flights, head of state, medevac, environmental monitoring flights or humanitarian flights.**
- Take-off and landing in connection with security control of the airport area.



1.1.2 Overflying the towns Gadstrup, Snoldelev, Tjæreby, Tune, Vindinge and Vor Frue should be avoided in connection with VFR take-off and landing. This provision is valid for all VFR flights to and from Roskilde Airport and for all flights (IFR and VFR) flying visual aerodrome traffic circuits for landing exercises.

1.1.3 Violation of the Noise Abatement Provisions can be punished in pursuance of the Regulations for Civil Aviation BL 3-40 "Abatement of Noise from Controlled Aerodromes".

1.2 Jet aircraft

1.2.1 Jet aircraft may operate only, if they are noise certificated according to ICAO Annex 16, chapter 2 or chapter 3, and if they comply with the noise criteria given in ICAO Annex 16, chapter 2 for aircraft with a MTOM up to 34.000 KG.

1.2.2 School and training flights are prohibited with jet aircraft with a MTOM above 5700 KG, unless it can be documented that the noise level for the aircraft concerned is less than or equal to 80 dB (A), cf. Guidance Material no 5/1994 - issued by the Danish Environmental Protection Agency - concerning noise from aerodromes.

1.2.3 Before executing VFR school and training flights the Pilot-in-Command shall obtain more specified instructions from the Airport Office/Briefing.

1.2.4 VFR landing exercises carried out in connection with school flights are permitted only as stated in item 1.3.4.

1.3 Propeller and turboprop aeroplanes

1.3.1 After take-off the Pilot-in-Command should aim to use an air speed giving the best rate of climb.

1.3.2 School and training flights are prohibited with aircraft with a MTOM above 5.700 KG, unless it can be documented that the noise level for the aircraft concerned is less than or equal to 80 dB (A), cf. Guidance Material no 5/ 1994 - issued by the Danish Environmental Protection Agency - concerning noise from aerodromes (noise class I, II and III).

1.3.3 Before executing VFR school and training flights the Pilot-in-Command shall obtain more specified instructions from the Airport Office /Briefing.

1.3.4 VFR landing exercises and continuous approaches carried out in connection with school flights are permitted only:

a. From 1 MAY to 31 AUG:

MON-FRI, EXC HOL	0700-1900 Danish time
SAT, EXC HOL	0700-1400 Danish time

b. From 1 SEP to 30 APR:

MON-FRI, EXC HOL	0700-2200 Danish time
SAT, EXC HOL	0700-1400 Danish time

VFR landing exercises and continuous approaches carried out in connection with school flights are also permitted - from 1 SEP to 30 APR on certain Saturdays within the period 1400-1900 Danish time - by arrangement with the Airport Office.

1.3.4.1 VFR landing exercises and continuous approaches carried out by a holder of a licence in order to maintain the privileges of the licence are permitted all days between 0700-2200. If performed outside the times specified in 1.3.4, the pilot license number must be submitted to the ARO.

1.3.4.2 IFR landing exercises and continuous approaches are permitted only:

MON-FRI, EXC HOL	H24
SAT, EXC HOL	0700-1400 Danish time

IFR landing exercises and continuous approaches are also permitted in the period 1 SEP to 30 APR from 1400-1900 Danish time on certain Saturdays - by arrangement with the Airport Office.

1.4 Helicopters

1.4.1 School and training flights with helicopters with MTOM above 5.700 kg are prohibited.

1.4.2 Before executing VFR school and training flights, the Pilot-in-Command shall obtain more specified instructions from the Airport Office/Briefing.

1.4.3 VFR landing exercises carried out in connection with school flights are permitted only as stated in item 1.3.4.

1.5 Reporting

1.5.1 Reporting by the Pilot-in-Command to the Danish CAA.

1.5.1.1 The Pilot-in-Command shall as fast as possible report to the Danish CAA when it has not been possible to comply with the provision in item 1.1.2 due to safety reasons.

1.5.2 Reporting by the Air Navigation Services KØBENHAVN to the Danish CAA.

1.5.2.1 The Air Navigation Services KØBENHAVN shall notify The Danish CAA of every clearance deviating from the above mentioned provisions.

1.5.2.2 The Air Navigation Services KØBENHAVN shall notify the Danish CAA of every clearance according to the provision in item 1.1.1.

1.5.2.3 The Air Navigation Services KØBENHAVN shall notify the Danish CAA when observing the towns overflowed - mentioned in item 1.1.2 - in connection with VFR take-off or landing.

1.5.3 Københavns Lufthavne A/S (Copenhagen Airports) reporting to the Danish CAA.

1.5.3.1 Københavns Lufthavne A/S (Copenhagen Airports) shall notify the Danish CAA when it has been ascertained that jet aircraft has been operating against the regulation in item 1.2.1.

1.5.3.2 Københavns Lufthavne A/S (Copenhagen Airports) shall notify the Danish CAA when it has been ascertained that aircraft has executed school and training flights against the provisions in item 1.2.2, 1.3.2 or 1.4.1.

1.5.3.3 Københavns Lufthavne A/S (Copenhagen Airports) shall notify the Danish CAA when it has been ascertained that school flight has taking place against the provisions in item 1.2.4, 1.3.4 or 1.4.3.

1.5.4 The Danish CAA follow-up of reports.

1.5.4.1 The Danish CAA will make further investigation based on the received reports. The investigation will include an evaluation of whether liability to punishment shall be exercised according to Regulations for Civil Aviation BL 5-40.

ROSILDE ARRIVAL**Flight Planning**

IFR traffic to København/Roskilde shall be planned via the appropriate primary holding (TIDVU, ERNOV, KOR or FSKO) via routes listed below. Holdings are described on page 9-8.

Note: Traffic via AALBORG VOR/DME shall flight plan via T551-TNO to FSKO. Traffic via RØNNE VOR shall flight plan via L983-ROBUS-DCT-KOR.

TIDVU holding and ERNOV holding are inside Swedish territory. Operators not permitted to overfly Swedish territory shall file outside Swedish territory.

Filing of Flight Plan

Traffic to København/Roskilde shall include appropriate primary holding in the flight plan.

Performance Restrictions/Level Restrictions

Descend from cruising level/top of descend shall be planned so as to meet the following level restrictions:

ARR via	Level restriction	Primary Holding
ROBUS	MAX FL 70	KOR
	MAX FL 70 (20 NM prior to KOR)	KOR
TNO	MAX FL70 (20 NM prior to TNO)	FSKO

Radio communication failure during IFR approach.

In case of radio communication failure, the latest received and acknowledged level shall be maintained until the appropriate primary holding. In TIDVU holding descend to FL 70. In ERNOV holding descend to FL 100. In FSKO and KOR holding

Ground handling

It is mandatory for all aircraft above 3000 kgs to contact "Roskilde Handling" 15 MIN prior to arrival, stating ETA, POB, fuel requirement, intention and to receive parking instructions. Ground handling is mandatory for non-resident commercial and private operators of aircraft with MTOM above 3000 kgs when using main apron facilities.

ARRIVAL INFORMATION

Primary holdings for København/Roskilde

Holding name	Inbound track (MAG)	Turn	MAX IAS	MNM/MAX level Time	Entry procedure
TIDVU 55° 24.678'N 013° 33.452'E	294	Right	230	5000FT 1.5 MIN	Omni-directional
FISKO TNO VOR R-112/12.5 DME. KV 13.2 DME 55° 41.083'N 011° 46.267'E	112	Right	210	3000FT/FL140 1 MIN	Direct via TNO R-112
KORSA KOR VOR/DME 55° 26.362'N 011° 37.892'E	298	Right	210	3000FT/FL140 1 MIN	Omni-directional
ERNOV 56° 10.132'N 012° 34.427'E	179	Left	230	FL 100 /- 1.5 MIN	Omni-directional

Secondary Holdings for København/Roskilde

Holding name	Inbound track (MAG)	Turn	MAX IAS	MNM/MAX level Time	Entry procedure
ROSKILDE L RK 55° 37.388'N 011° 59.830'E	112	Right	210	2000FT/6000FT 1 MIN	Omni-directional

DEPARTURE INFORMATION

ROSKILDE DEPARTURE

Flight Planning

Standard Instrument Departures are not established.

1. For destinations outside Copenhagen Area and outside the lateral limit of Malmö TMA, flight planning shall be via one of the Departure routes. See below.
2. For destinations within Copenhagen Area and within the lateral limit of Malmö TMA, flights may be planned direct between significant points/aerodromes.

PROP aircraft			JET aircraft		
Route	RMK	Note	Aircraft type	RMK	Note
NOVPO DCT VEDAR			NOVPO DCT VEDAR		
ERNOV	Only AVBL FL090 and below		ERNOV	Only AVBL FL090 and below	
ASTOS			KEMAX		
GAVBA DCT BALOX		A	DENEK DCT SIMEG		A
TNO	Only AVBL FL060 and below		TNO	Only AVBL FL60 and below	
DOBEL DCT ODN			KOR	Only AVBL FL060 and below	
KOR	Only AVBL FL060 and below		BISTA DCT NEXEN or BETUD	Only AVBL FL070 and above	A
MAXEL DCT KOPEX or BETUD	Only AVBL FL070 and above	A	TOBIS DCT LANGO	Only AVBL FL070 and above	
MIRGO DCT GOLGA	Only AVBL FL070 and above		DOBEL DCT ODN		
			SORGA DCT MIKSI	Only AVBL FL070 and above	B
			MIRGO DCT GOLGA	Only AVBL FL070 and above	

Notes:

- A. Departure route BETUD available only to operators not permitted to fly over Swedish territory. Generally Departure route BALOX/SIMEG applies. Flight planning via Departure route BETUD is restricted to MAX FL 70 until BETUD.
- B. Departure route SORGA DCT MIKSI traverses Restricted area EK R19. During hours of activity this Departure route is not available. Alternate MIRGO DCT GOLGA applies.

ATC clearance

For flights to destinations outside Copenhagen Area and outside the lateral limit of Malmö TMA, ATC clearance will be issued via the departure routes based on VOR radials or DCT. Traffic via DOBEL (below FL065), KOR and TNO can expect a maximum of 5000 FT until leaving Copenhagen Area.

Omnidirectional Departure from Roskilde

Climb straight ahead to at least 800 FT MSL before turn is commenced.

Departure from military helipad:

- Departure 140: Climb on track 139 to 800 FT MSL before turn is commenced.
- Departure 295: Climb on track 294 to 800 FT MSL before turn is commenced.

CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL-AIM 21 APR 2022

DEPARTURE INFORMATION

Radar vectoring

Radar vectoring may be used to expedite traffic. Heading deviations after departure shall not be initiated below 800 FT MSL.

Speed limit: FL 70 and below: MAX IAS 250 KT.

Radio Communication Failure

1. Flights leaving Copenhagen Area and Malmö TMA:

In case of radio communication failure after departure, maintain for a period of three minutes the cleared level. Then climb to 4000 FT MSL or maintain cleared level if higher. Maintain until final waypoint of the departure route, then climb to requested flight level. In case of radio communication failure after departure, while under radar vectoring, aircraft shall proceed in the most direct manner to the departure route filed and climb according to above described procedure.

2. Flights with entire route within Copenhagen Area and Malmö TMA:

In case of radio communication failure after departure, maintain for a period of three minutes the cleared level, then continue in accordance with the current flight plan. In case of radio communication failure after departure, while under radar vectoring, aircraft shall proceed in the most direct manner in accordance with the current flight plan and climb according to above described procedure.

Waypoint list

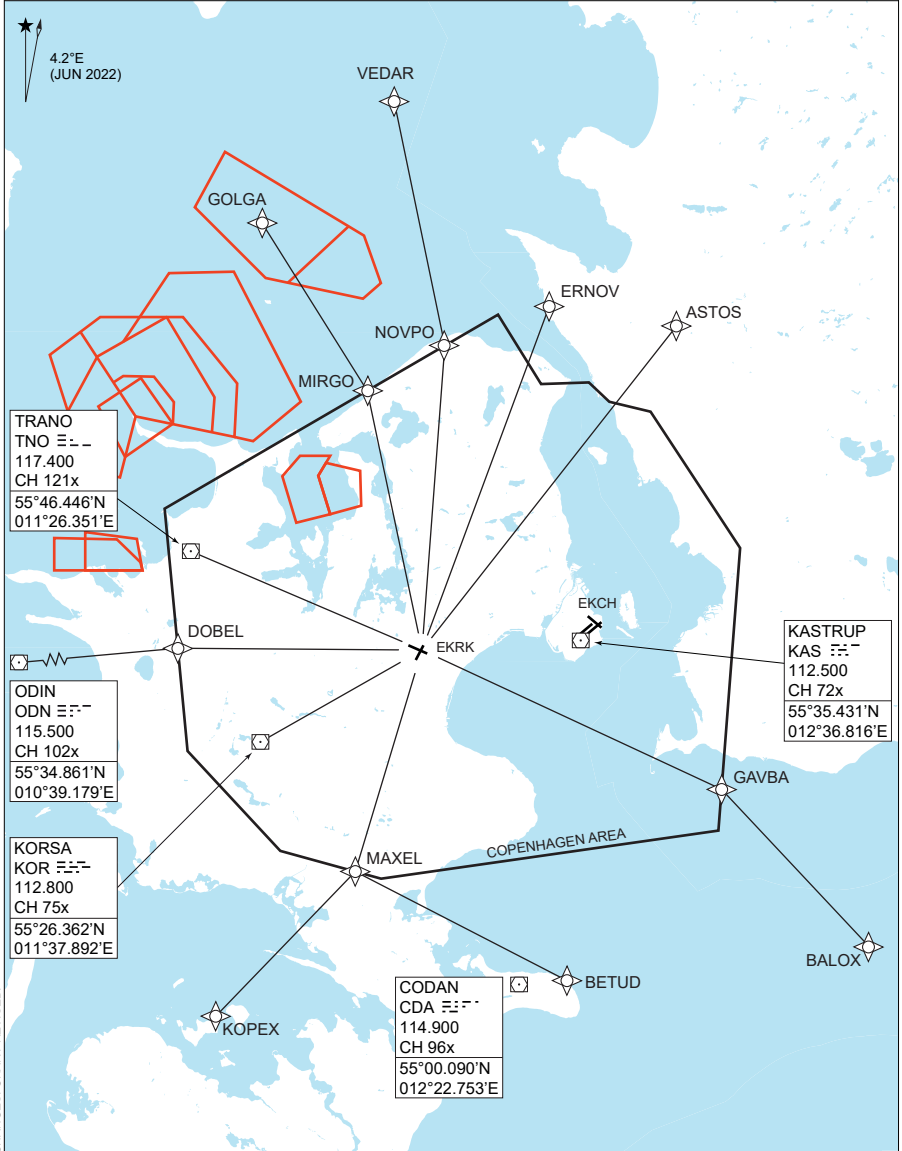
Way-point	Latitude /Longitude VOR/DME definition	Way-point	Latitude /Longitude VOR/DME definition
ASTOS	56° 07.228'N 012° 57.675' E KAS 018/33.9 NM	LANGO	54° 56.738'N 010° 51.378'E KAS 236/71.8 NM
BALOX	55° 02.132'N 013° 25.618' E KAS 137/43.4 NM	MAXEL	55° 12.555'N 011° 54.149'E KAS 225/33.4 NM, KOR 145/16.7 NM
BETUD	55° 00.435'N 012° 31.346'E KAS 185/35.2 NM	MIKSI	56° 12.165'N 011° 35.444'E KAS 315/50.5 NM, KOR 357/45.9 NM
BISTA	55° 12.203'N 012° 07.383' E KAS 214/28.7 NM, KOR 128/ 22.0 NM	MIRGO	56° 02.142'N 011° 59.882'E KAS 320/33.9 NM, KOR 018/37.9 NM
CDA	55° 00.090'N 012° 22.753'E	NEXEN	54° 48.647'N 011° 37.515'E KAS 216/57.9 NM
DENEK	55° 25.663'N 013° 02.495'E KAS 124/17.6 NM	NOVPO	56° 06.400'N 012° 14.467'E KAS 338/33.5 NM, KOR 027/45.1 NM
DOBEL	55° 36.365'N 011° 23.396'E ODN 085/25.1 NM, KOR 320/13.0 NM, KAS 270/41.7 NM	ODN	55° 34.861'N 010° 39.179'E
GAVBA	55° 19.082'N 013° 00.917'E KAS 140/21.4 NM	SIMEG	55° 15.002'N 013° 30.072'E KAS 122/36.5 NM
GOLGA	56° 19.984'N 011° 41.703'E KAS 326/54.3 NM, TNO 014/34.7 NM	SORGA	55° 58.888'N 011° 48.843'E KAS 309/35.9 NM, KOR 009/33.2 NM
KAS	55° 35.431'N 012° 36.816'E	ERNOV	56° 10.132'N 012° 34.427'E
KEMAX	56° 07.587'N 013° 27.230' E KAS 039/43.0 NM	TOBIS	55° 15.141'N 011° 40.577'E KAS 236/38.0 NM, KOR 128/22.0 NM
KOPEX	54° 58.223'N 011° 28.061'E KAS 225/54.2 NM	TNO	55° 46.446'N 011° 26.351'E
KOR	55° 26.362'N 011° 37.892'E	VEDAR	56° 31.900'N 012° 07.417'E KAS 344/58.9 NM

INSTRUMENT DEPARTURE CHART

IFR TRAFFIC FROM ROSKILDE

PROP

Procedures are also valid for IFR traffic from Danish aerodromes within Copenhagen Area, except København / Kastrup (EKCH).
 FOR FURTHER INFORMATION SEE PAGE 9-9 TO 9-10.



CHANGES: CHART REVISED.

AIR COMMAND DENMARK - MIL AIM 16 JUN 2022

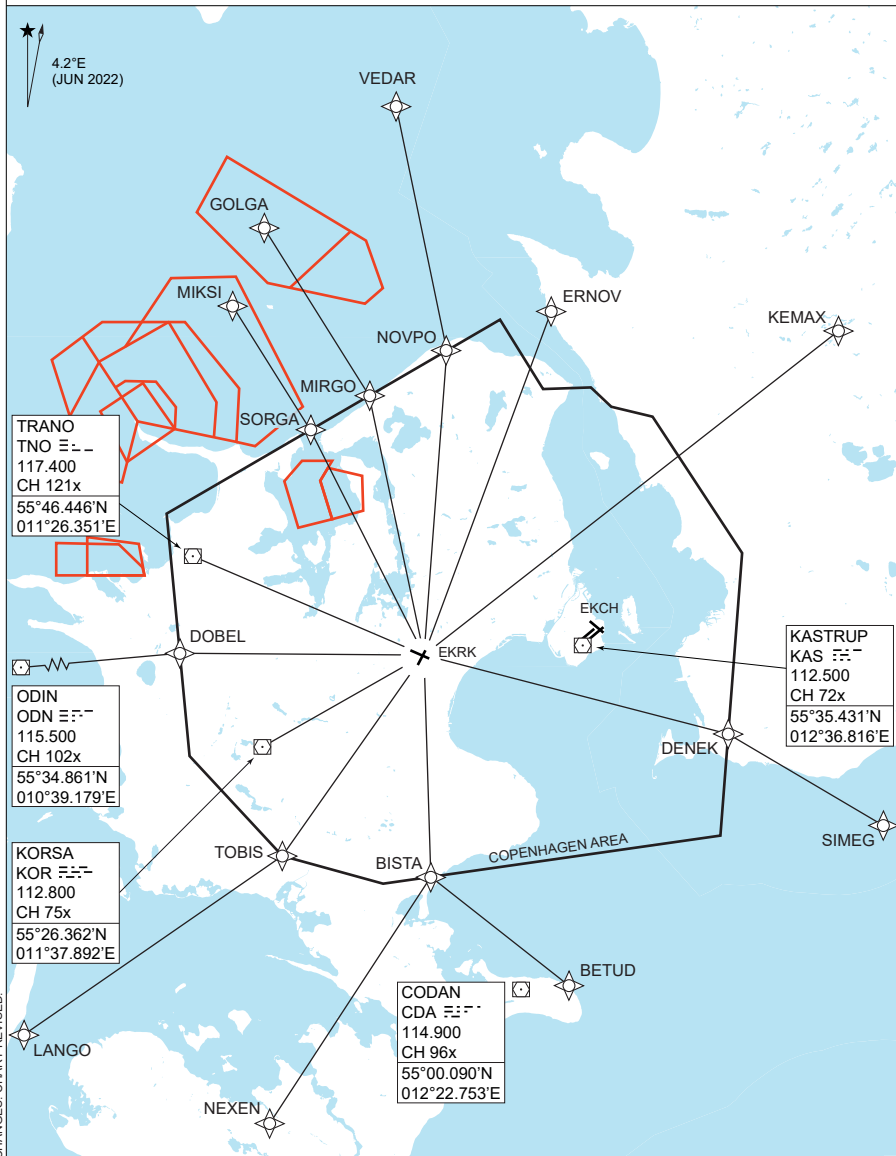
INSTRUMENT DEPARTURE CHART

IFR TRAFFIC FROM ROSKILDE

JET

Procedures are also valid for IFR traffic from Danish aerodromes within Copenhagen Area, except København / Kastrup (EKCH).

FOR FURTHER INFORMATION SEE PAGE 9-9 TO 9-10.



CHANGES: CHART REVISED.

AIR COMMAND DENMARK - MIL AIM 16 JUN 2022

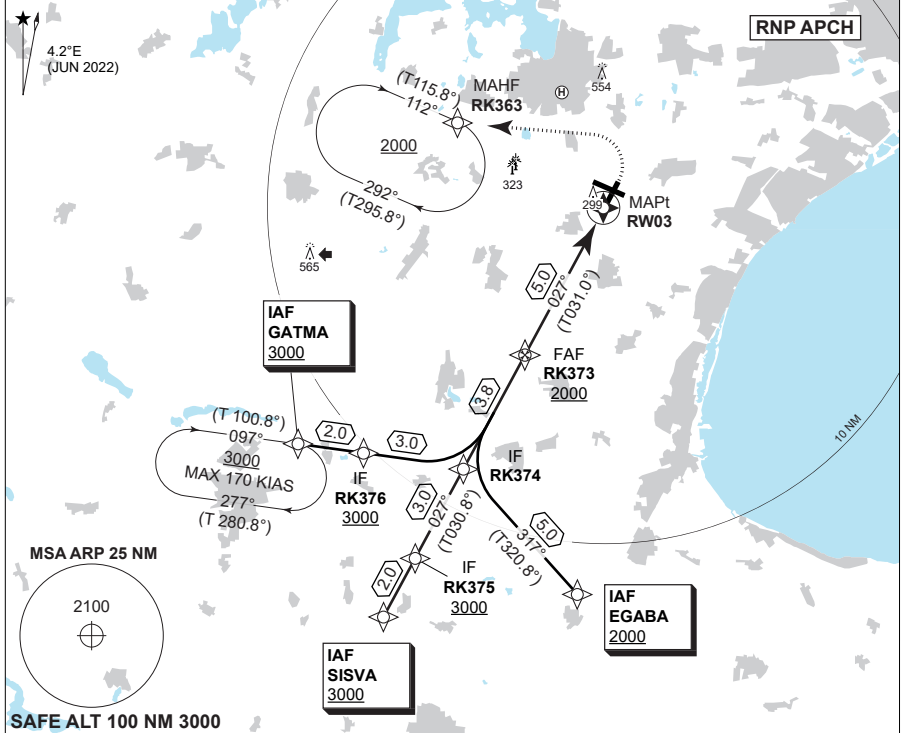
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 146

**RNP RWY 03
ROSKILDE (EKRK)**

COPENHAGEN APPROACH 119.805		ROSKILDE ATIS 123.805		ROSKILDE APPROACH 125.530		ROSKILDE TOWER 118.905 119.655	
APP COURSE 027°	FAF ALT 2000 FT	DESCENT GR 3.4° (6.0%)		MDA 630	THR ELEV 127	ALS LENGTH 450 M	LDA 4921 FT



TA 5000	CDFA 3.4° / 6.0%			
IAF GATMA 3000	DIST TO RW03	4	3	2
IF RK375 3000	ALT	1640	1270	910
IF RK376 3000				
IF RK374 3000				
FAF RK373 2000				
EGABA 2000				
SRC	5.0			THR ELEV 127

CATEGORY	A	B	C
LNAV	630 - 1500 503 (600-1.5/2.4)		630 - 1900 503 (600-1.9/2.4)
CIRCLING	630 - 1500 484 (500-1.5)	850 - 1600 704 (800-1.6)	950 - 2400 804 (900-2.4)

RNP RWY 03

55°35.13'N
012°07.89'E

ROSKILDE (EKRK)

9-13

EKRK

CHANGES: ATC FREQU CHG.

AIR COMMAND DENMARK - MIL_AIM 28 DEC 2023

EKRK RNP RWY 03 waypoint coordinates:**RWY 03 from GATMA (Initial LEFT) APPROACH RNP**

		CODING			DISPLAY	
GATMA	IAF	55 28 05.75N	011 50 51.63E	55 28.096N	011 50.861E	
RK376	IF	55 27 43.48N	011 54 18.77E	55 27.725N	011 54.313E	
RK374	-	55 27 09.89N	011 59 29.35E	55 27.165N	011 59.489E	
RK373	FAF	55 30 25.30N	012 02 54.75E	55 30.422N	012 02.913E	
RW03	MAPt	55 34 42.25N	012 07 25.85E	55 34.704N	012 07.431E	
RK363	MAHF	55 37 22.86N	011 59 49.45E	55 37.381N	011 59.824E	

RWY 03 from SISVA (Initial STRAIGHT) APPROACH RNP

		CODING			DISPLAY	
SISVA	IAF	55 22 52.63N	011 54 59.97E	55 22.877N	011 55.000E	
RK375	IF	55 24 35.55N	011 56 47.61E	55 24.593N	011 56.794E	
RK374	-	55 27 09.89N	011 59 29.35E	55 27.165N	011 59.489E	
RK373	FAF	55 30 25.30N	012 02 54.75E	55 30.422N	012 02.913E	
RW03	MAPt	55 34 42.25N	012 07 25.85E	55 34.704N	012 07.431E	
RK363	MAHF	55 37 22.86N	011 59 49.45E	55 37.381N	011 59.824E	

RWY 03 from EGABA (Initial RIGHT) APPROACH RNP

		CODING			DISPLAY	
EGABA	IAF	55 23 17.68N	012 05 01.73E	55 23.295N	012 05.029E	
RK374	IF	55 27 09.89N	011 59 29.35E	55 27.165N	011 59.489E	
RK373	FAF	55 30 25.30N	012 02 54.75E	55 30.422N	012 02.913E	
RW03	MAPt	55 34 42.25N	012 07 25.85E	55 34.704N	012 07.431E	
RK363	MAHF	55 37 22.86N	011 59 49.45E	55 37.381N	011 59.824E	

Threshold coordinates RWY 03

		CODING			DISPLAY	
RWY 03		55 34 42.25N	012 07 25.85E	55 34.704N	012 07.431E	

MIPS

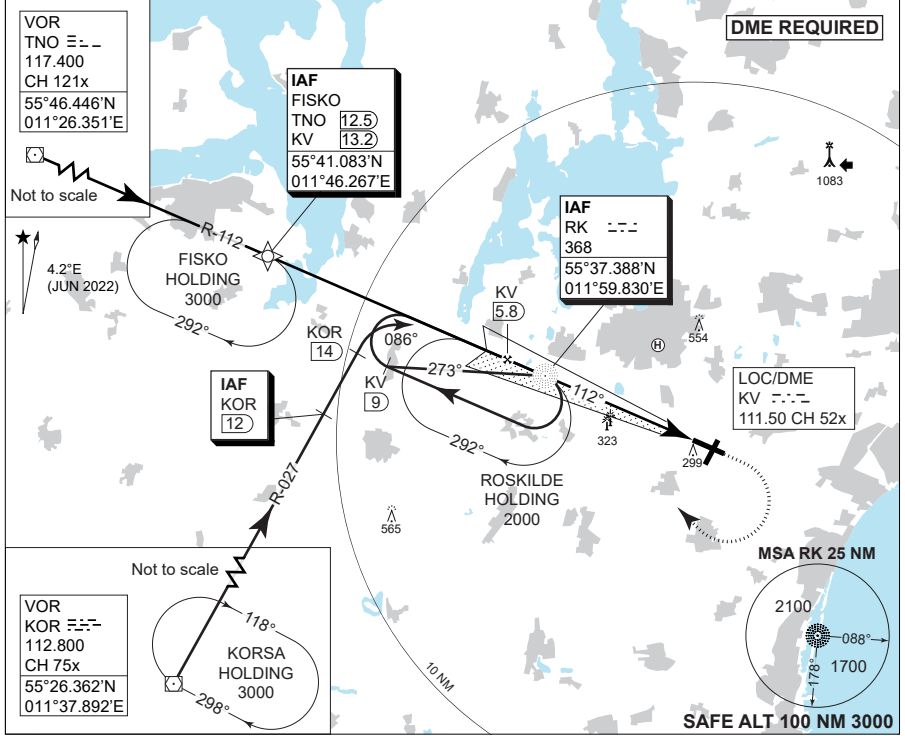
INSTRUMENT APPROACH CHART

AD ELEV 146

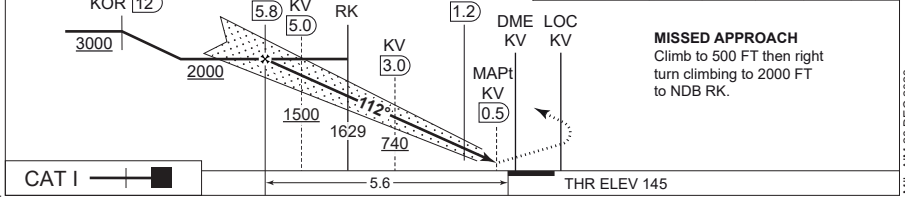
ILS or LOC RWY 11 (CAT A-B)

ROSkilde (EKRK)

COPENHAGEN APPROACH 119.805		ROSkilde ATIS 123.805		ROSkilde APPROACH 125.530		ROSkilde TOWER 118.905 119.655	
LOC/DME KV 111.50 CH 52x	APP COURSE 112°	GS INTCP ALT 2000 FT	GS 3.00°	DA 345	THR ELEV 145 FT	ALS LENGTH 900 M	LDA 5708 FT



TA 5000 GS 3.0° RDH 52	LOC ONLY CDFA 3.0° / 5.3%					
	DME KV	5	4	3	2	1
	DIST TO THR	4.8	3.8	2.8	1.8	0.8
ALT	1740	1420	1100	780	460	



CATEGORY	A	B
S-ILS 11	345 - 550 200 (200-0.8/1.2)	
S-LOC 11	520 - 1000 375 (400-1.0/1.7)	
CIRCLING	610 - 1.5 464 (500-1.5)	850 - 1.6 704 (800-1.6)

ILS or LOC RWY 11 (CAT A-B)

55°35.13'N
012°07.89'E

ROSkilde (EKRK)

9-15

CHANGES: ATC FREQ CHG

MIPS

AIR COMMAND DENMARK - MIL_AIM 28 DEC 2023

EKRK

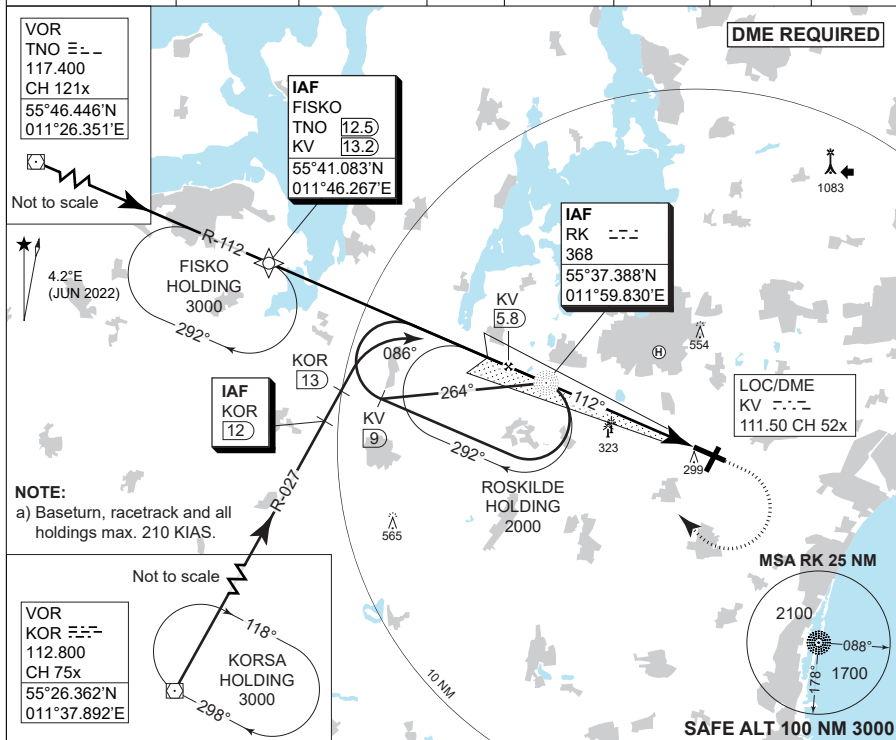
MIPS

INSTRUMENT APPROACH CHART

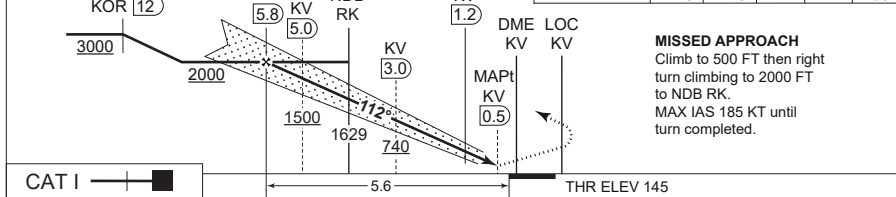
AD ELEV 146

**ILS or LOC RWY 11 (CAT C-E)
ROSKILDE (EKRK)**

COPENHAGEN APPROACH 119.805		ROSKILDE ATIS 123.805		ROSKILDE APPROACH 125.530		ROSKILDE TOWER 118.905 119.655	
LOC/DME KV 111.50 CH 52x	APP COURSE 112°	GS INTCP ALT 2000 FT	GS 3.00°	DA SEE CAT	THR ELEV 145 FT	ALS LENGTH 900 M	LDA 5708 FT



TA 5000 GS 3.0° RDH 52	LOC ONLY CDFA 3.0° / 5.3%					
	DME KV	5	4	3	2	1
	DIST TO THR	4.8	3.8	2.8	1.8	0.8
ALT	1740	1420	1100	780	460	



MIPS CHANGES: ATC FREQ CHG	CATEGORY	C	D	E
	S-ILS 11 (MACG 2.5%)	439 - 650 294 (300-0.8/1.4)	449 - 700 304 (400-0.8/1.4)	467 - 800 322 (400-0.8/1.5)
	S-ILS 11 (MACG 5.0%)	345 - 550 200 (200-0.8/1.2)		
	S-LOC 11	520 - 1000 375 (400-1.0/1.7)		
CIRCLING	950 - 2400 804 (900-2.4)	950 - 3600 804 (900-3.6)	1050 - 3600 904 (1000-3.6)	

ILS or LOC RWY 11 (CAT C-E)

55°35.13'N
012°07.89'E

ROSKILDE (EKRK)

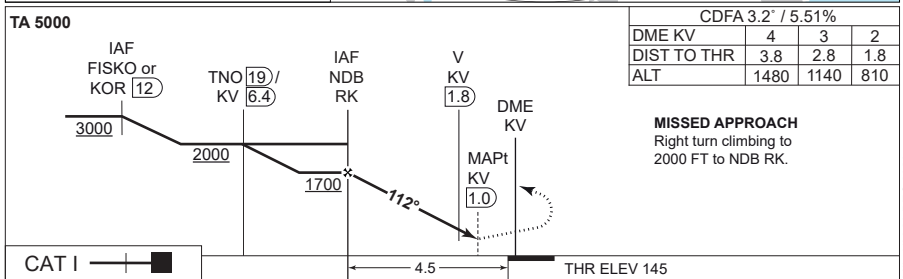
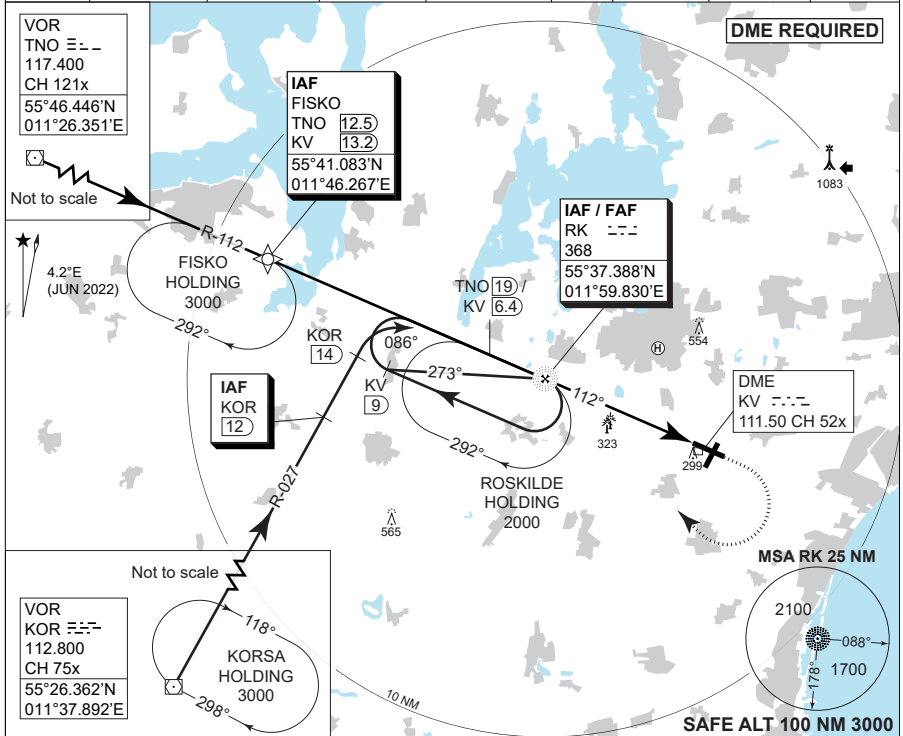
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 146

**NDB RWY 11 (CAT A-B)
ROSKILDE (EKRK)**

COPENHAGEN APPROACH 119.805		ROSKILDE ATIS 123.805		ROSKILDE APPROACH 125.530			ROSKILDE TOWER 118.905 119.655	
NDB RK 368	DME KV CH 52x	APP COURSE 112°	FAF ALT 1700 FT	DESCENT GR 3.2° (5.51%)	MDA 740	THR ELEV 145 FT	ALS LENGTH 900 M	LDA 5708 FT



MIPS	CATEGORY	A	B
	S-NDB 11	740 - 1500 595 (600-1.5/2.7)	
	CIRCLING	740 - 1.5 594 (600-1.5)	850 - 1.6 704 (800-1.6)

NDB RWY 11 (CAT A-B)

55°35.13'N
012°07.89'E
9-17

ROSKILDE (EKRK)

CHANGES: ATC FREQ CHG

AIR COMMAND DENMARK - MIL AIM 28 DEC 2023



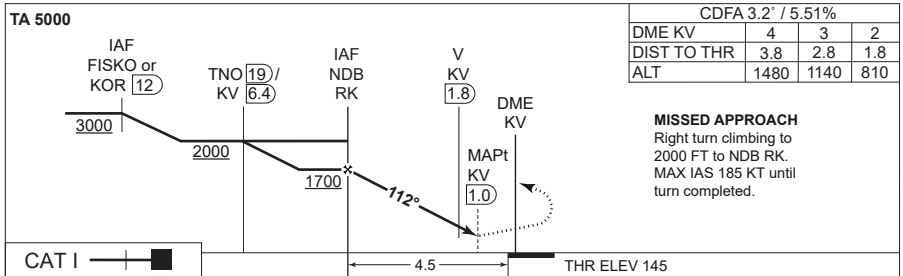
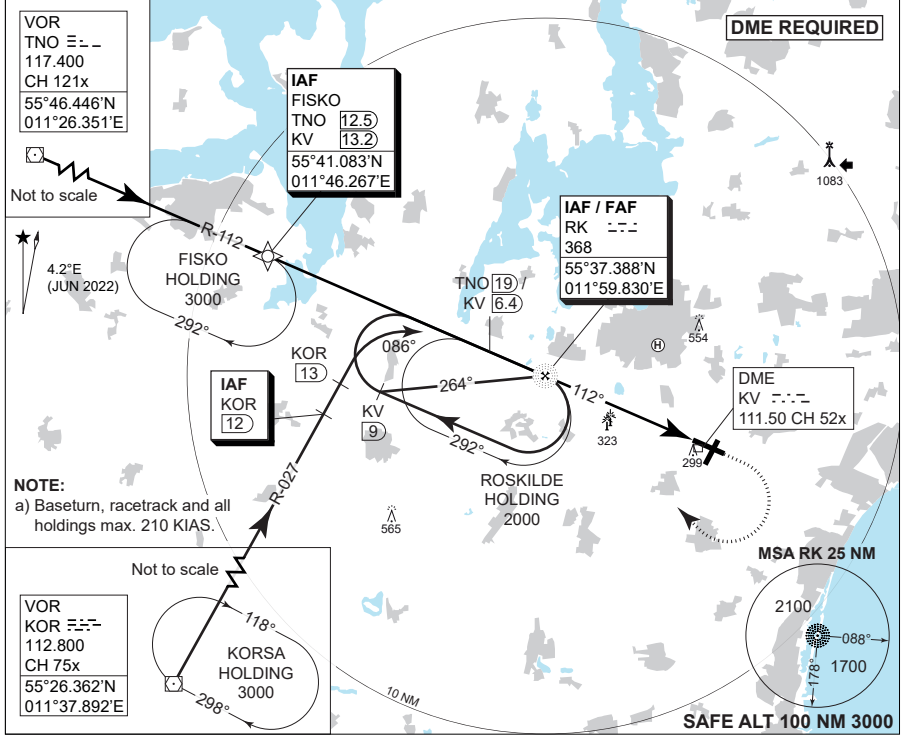
MIPS

INSTRUMENT APPROACH CHART

AD ELEV 146

**NDB RWY 11 (CAT C-E)
ROSKILDE (EKRK)**

COPENHAGEN APPROACH 119.805		ROSKILDE ATIS 123.805		ROSKILDE APPROACH 125.530			ROSKILDE TOWER 118.905 119.655	
NDB RK 368	DME KV CH 52x	APP COURSE 112°	FAF ALT 1700 FT	DESCENT GR 3.2° (5.51%)	MDA 740	THR ELEV 145 FT	ALS LENGTH 900 M	LDA 5708 FT



CATEGORY	C	D	E
S-NDB 11	740 - 2000 595 (600-2.0/2.7)		
CIRCLING	950 - 2400 804 (900-2.4)	950 - 3600 804 (900-3.6)	1050 - 3600 904 (1000-3.6)

NDB RWY 11 (CAT C-E)

55°35.13'N
012°07.89'E

ROSKILDE (EKRK)

CHANGES: ATC FREQ CHG

MIPS

AIR COMMAND DENMARK - MIL-AIM 28 DEC 2023

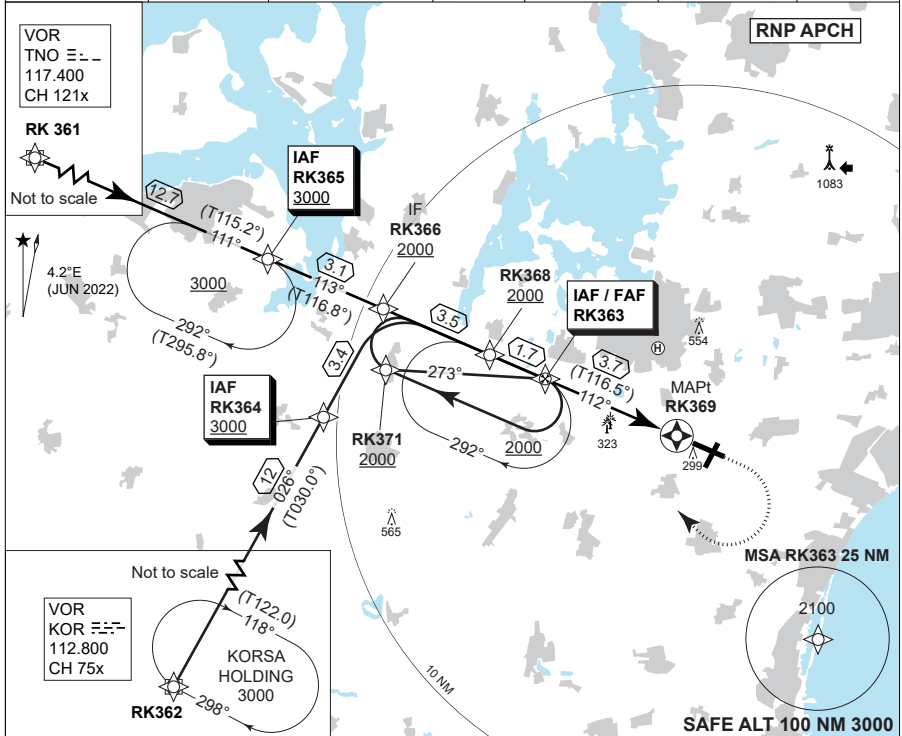
MIPS

INSTRUMENT APPROACH CHART

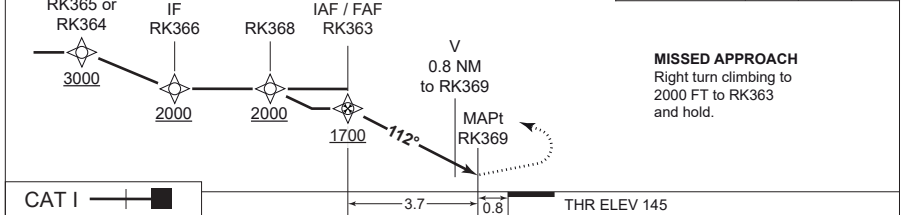
AD ELEV 146

**RNP RWY 11 (CAT A-B)
ROSKILDE (EKRK)**

COPENHAGEN APPROACH 119.805		ROSKILDE ATIS 123.805		ROSKILDE APPROACH 125.530		ROSKILDE TOWER 118.905 119.655	
APP COURSE 112°	FAF ALT 1700 FT	DESCENT GR 3.1° (5.5%)	MDA 740	THR ELEV 145	ALS LENGTH 900 M	LDA 5708 FT	



TA 5000	CDFA 3.1° / 5.50%			
	DIST TO RK369	3	2	1
ALT	1480	1140	810	



MIPS	CATEGORY	A	B
	LNAV	740 - 1500 595 (600-1.5/2.7)	
	CIRCLING	740 - 1.5 594 (600-1.5)	850 - 1.6 704 (800-1.6)

RNP RWY 11 (CAT A-B)

55°35.13'N
012°07.89'E
9-19

ROSKILDE (EKRK)

CHANGES: ATC FREQ CHG

AIR COMMAND DENMARK - MIL-AIM 28 DEC 2023



EKRK RNP RWY 11 waypoint coordinates:**RWY 11 from RK361 (TNO VOR) APPROACH RNP**

		CODING			DISPLAY	
RK361	(TNO)	55 46 26.74N	011 26 21.08E	55 46.446N	011 26.351E	
RK365	IAF	55 41 01.94N	011 46 37.35E	55 41.032N	011 46.623E	
RK366	IF	55 39 38.82N	011 51 28.36E	55 39.647N	011 51.473E	
RK368	-	55 38 08.42N	011 57 05.34E	55 38.140N	011 57.089E	
RK363	FAF	55 37 22.86N	011 59 49.45E	55 37.381N	011 59.824E	
RK369	MAPt	55 35 45.89N	012 05 37.66E	55 35.765N	012 05.628E	

RWY 11 from RK362 (KOR VOR) APPROACH RNP

		CODING			DISPLAY	
RK362	(KOR)	55 26 21.71N	011 37 53.51E	55 26.362N	011 37.892E	
RK364	IAF	55 36 43.12N	011 48 27.83E	55 36.719N	011 48.464E	
RK366	IF	55 39 38.82N	011 51 28.36E	55 39.647N	011 51.473E	
RK368	-	55 38 08.42N	011 57 05.34E	55 38.140N	011 57.089E	
RK363	FAF	55 37 22.86N	011 59 49.45E	55 37.381N	011 59.824E	
RK369	MAPt	55 35 45.89N	012 05 37.66E	55 35.765N	012 05.628E	

RWY 11 from RK363 (RK NDB) APPROACH RNP

		CODING			DISPLAY	
RK363	IAF	55 37 22.86N	011 59 49.45E	55 37.381N	011 59.824E	
RK371	-	55 37 53.03N	011 51 57.53E	55 37.884N	011 51.959E	
RK368	-	55 38 08.42N	011 57 05.34E	55 38.140N	011 57.089E	
RK363	FAF	55 37 22.86N	011 59 49.45E	55 37.381N	011 59.824E	
RK369	MAPt	55 35 45.89N	012 05 37.66E	55 35.765N	012 05.628E	

Threshold coordinates RWY 11

		CODING			DISPLAY	
RWY 11		55 35 23.93N	012 06 56.30E	55 35.399N	012 06.938E	

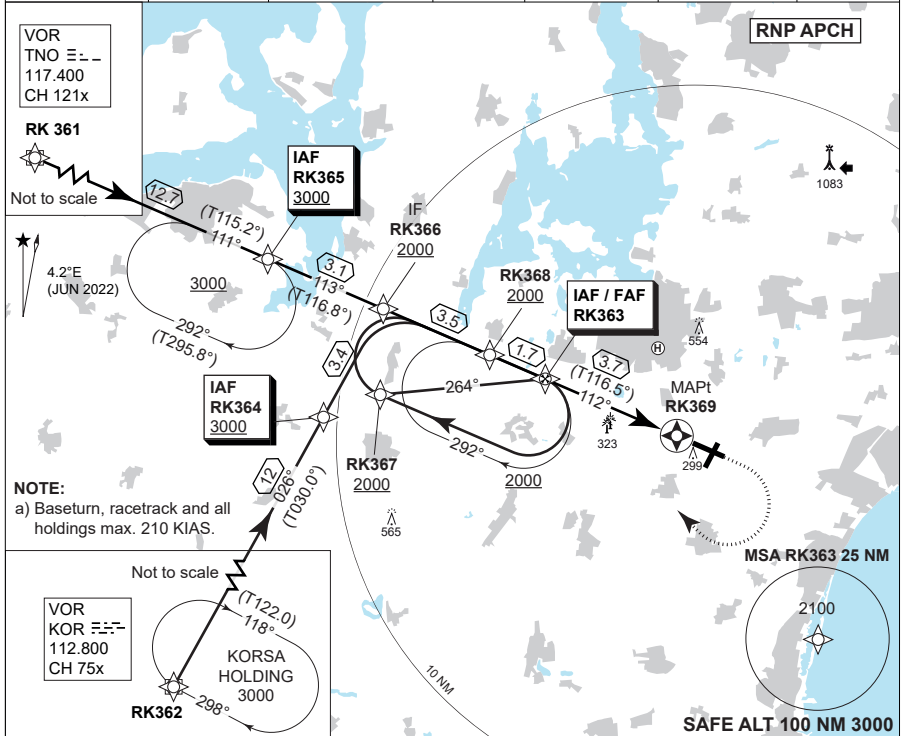
MIPS

INSTRUMENT APPROACH CHART

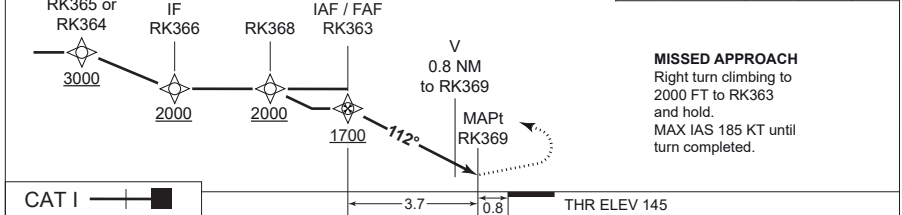
AD ELEV 146

**RNP RWY 11 (CAT C-E)
ROSKILDE (EKRK)**

COPENHAGEN APPROACH 119.805		ROSKILDE ATIS 123.805		ROSKILDE APPROACH 125.530		ROSKILDE TOWER 118.905 119.655	
APP COURSE 112°	FAF ALT 1700 FT	DESCENT GR 3.1° (5.5%)	MDA 740	THR ELEV 145	ALS LENGTH 900 M	LDA 5708 FT	



TA 5000	CDFA 3.1° / 5.50%			
	DIST TO RK369	3	2	1
	ALT	1480	1140	810



CATEGORY	C	D	E
LNAV	740 - 2000 595 (600-2.0/2.7)		
CIRCLING	950 - 2400 804 (900-2.4)	950 - 3600 804 (900-3.6)	1050 - 3600 904 (1000-3.6)

RNP RWY 11 (CAT C-E)

55°35.13'N
012°07.89'E
9-21

ROSKILDE (EKRK)

CHANGES: ATC FREQ CHG

MIPS

AIR COMMAND DENMARK - MIL_AIM 28 DEC 2023



EKRK RNP RWY 11 waypoint coordinates:**RWY 11 from RK361 (TNO VOR) APPROACH RNP**

		CODING			DISPLAY	
RK361	(TNO)	55 46 26.74N	011 26 21.08E	55 46.446N	011 26.351E	
RK365	IAF	55 41 01.94N	011 46 37.35E	55 41.032N	011 46.623E	
RK366	IF	55 39 38.82N	011 51 28.36E	55 39.647N	011 51.473E	
RK368	-	55 38 08.42N	011 57 05.34E	55 38.140N	011 57.089E	
RK363	FAF	55 37 22.86N	011 59 49.45E	55 37.381N	011 59.824E	
RK369	MAPt	55 35 45.89N	012 05 37.66E	55 35.765N	012 05.628E	

RWY 11 from RK362 (KOR VOR) APPROACH RNP

		CODING			DISPLAY	
RK362	(KOR)	55 26 21.71N	011 37 53.51E	55 26.362N	011 37.892E	
RK364	IAF	55 36 43.12N	011 48 27.83E	55 36.719N	011 48.464E	
RK366	IF	55 39 38.82N	011 51 28.36E	55 39.647N	011 51.473E	
RK368	-	55 38 08.42N	011 57 05.34E	55 38.140N	011 57.089E	
RK363	FAF	55 37 22.86N	011 59 49.45E	55 37.381N	011 59.824E	
RK369	MAPt	55 35 45.89N	012 05 37.66E	55 35.765N	012 05.628E	

RWY 11 from RK363 (RK NDB) APPROACH RNP

		CODING			DISPLAY	
RK363	IAF	55 37 22.86N	011 59 49.45E	55 37.381N	011 59.824E	
RK367	-	55 37 13.00N	011 51 43.77E	55 37.217N	011 51.730E	
RK368	-	55 38 08.42N	011 57 05.34E	55 38.140N	011 57.089E	
RK363	FAF	55 37 22.86N	011 59 49.45E	55 37.381N	011 59.824E	
RK369	MAPt	55 35 45.89N	012 05 37.66E	55 35.765N	012 05.628E	

Threshold coordinates RWY 11

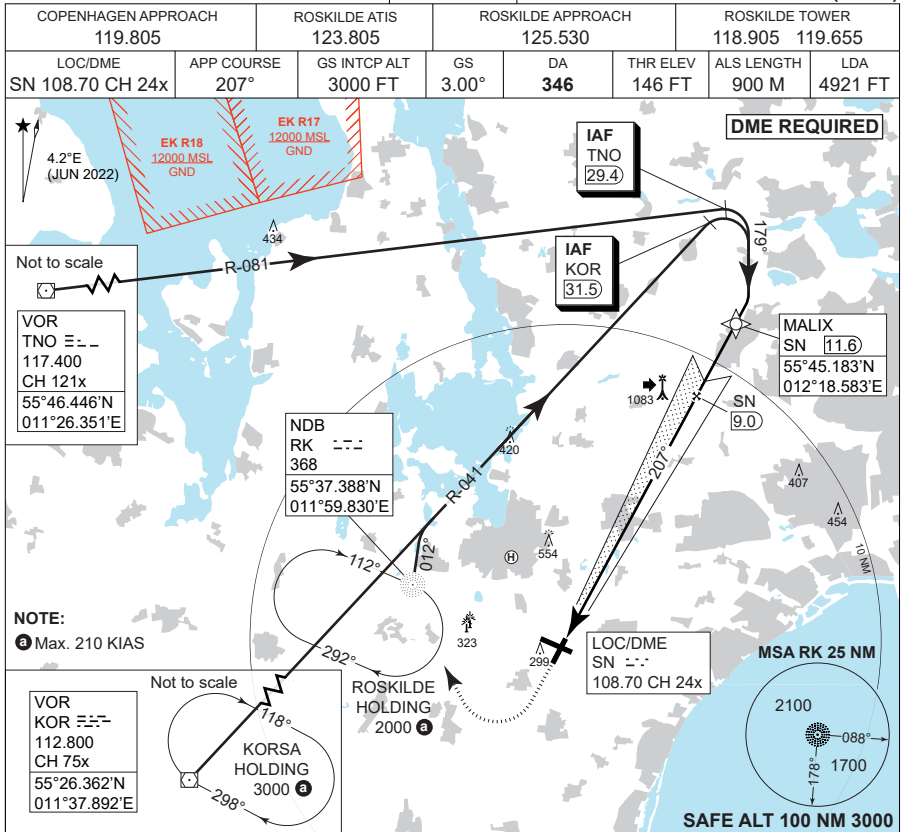
		CODING			DISPLAY	
RWY 11		55 35 23.93N	012 06 56.30E	55 35.399N	012 06.938E	

MIPS

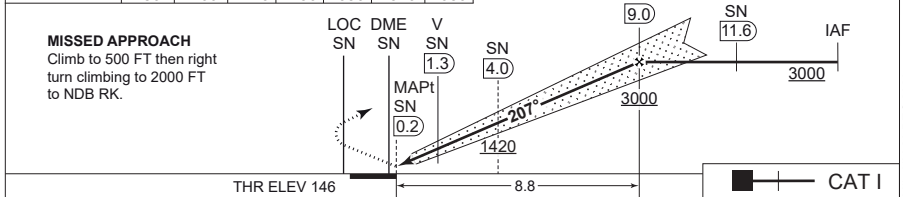
INSTRUMENT APPROACH CHART

AD ELEV 146

**ILS or LOC RWY 21
ROSKILDE (EKRR)**



LOC ONLY CDFA 3.0° / 5.2%							
DME SN	2	3	4	5	6	7	8
DIST TO THR	1.8	2.8	3.8	4.8	5.8	6.8	7.8
ALT	780	1100	1420	1730	2050	2370	2680



CATEGORY	A	B	C	D	E
S-ILS 21	346 - 550 200 (200-0.8/1.2)				
S-LOC 21	540 - 1100 394 (400-1.1/1.8)				
CIRCLING	610 - 1.5 464 (500-1.5)	850 - 1.6 704 (800-1.6)	950 - 2.4 804 (900-2.4)	950 - 3.6 804 (900-3.6)	1050 - 3.6 804 (1100-3.6)

ILS or LOC RWY 21

55°35.13'N
012°07.89'E
9-23

ROSKILDE (EKRR)



CHANGES: ATC FREQ CHG

AIR COMMAND DENMARK - MIL-AIM 28 DEC 2023

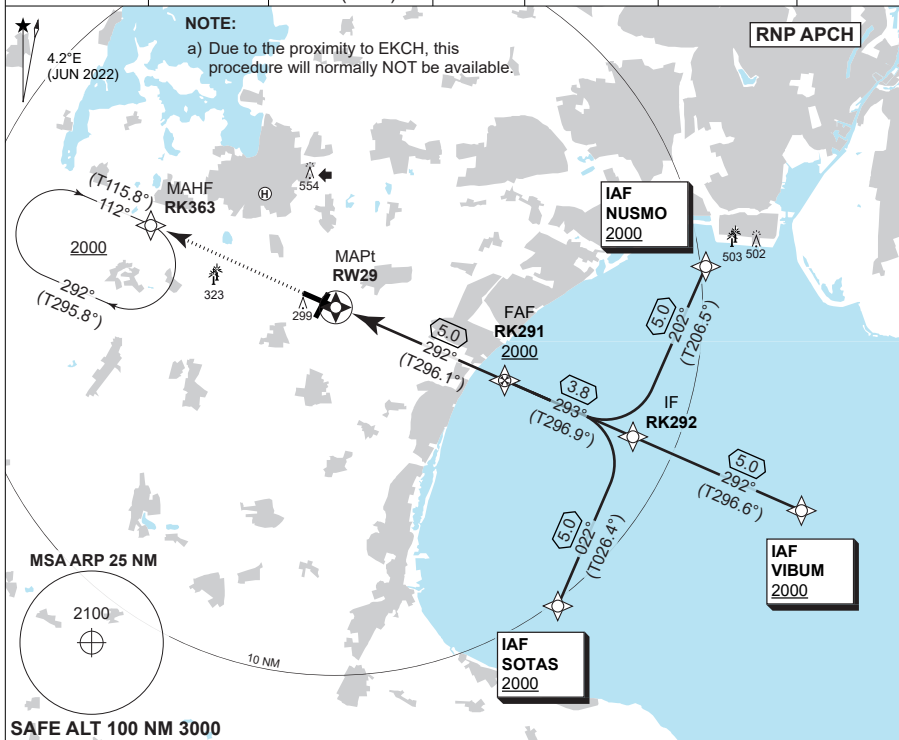
MIPS

INSTRUMENT APPROACH CHART

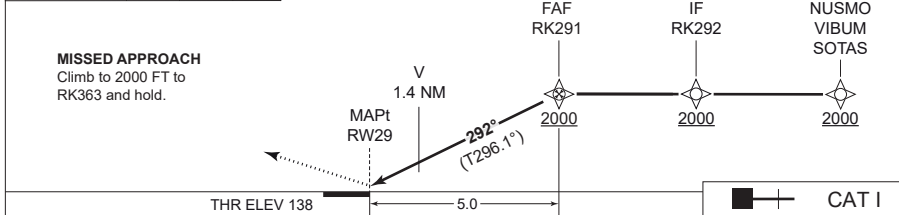
AD ELEV 146

**RNP RWY 29
ROSkilde (EKRR)**

COPENHAGEN APPROACH 119.805		ROSKILDE ATIS 123.805		ROSKILDE APPROACH 125.530		ROSKILDE TOWER 118.905 119.655	
APP COURSE 292°	FAF ALT 2000 FT	DESCENT GR 3.4° (6.0%)		MDA 690	THR ELEV 138	ALS LENGTH 420 M	LDA 5708 FT



CDFA 3.4° / 6.0%				TA 5000
DIST TO RW29	2	3	4	
ALT	920	1280	1640	



CATEGORY	A	B	C	D	E
LNAV	690 - 1500 552 (600-1.5/2.5)		690 - 2100 552 (600-2.1/2.5)		
CIRCLING	690 - 1.5 544 (600-1.5)	850 - 1.6 704 (800-1.6)	950 - 2.4 804 (900-2.4)	950 - 3.6 804 (900-3.6)	1050 - 3.6 804 (1100-3.6)

RNP RWY 29

55°35.13'N
012°07.89'E

ROSKILDE (EKRR)

9-24

CHANGES: ATC FREQU CHG.

MIPS

AIR COMMAND DENMARK - MIL AIM 28 DEC 2023

EKRK RNP RWY 29 waypoint coordinates:

RWY 29 from SOTAS (Initial LEFT) APPROACH RNP

		CODING				DISPLAY	
SOTAS	IAF	55 26	36.24N	012 18	20.61E	55 26.604N	012 18.344E
RK292	IF	55 31	05.52N	012 22	16.35E	55 31.092N	012 22.273E
RK291	FAF	55 32	46.24N	012 16	18.95E	55 32.771N	012 16.316E
RW29	MAPt	55 34	59.03N	012 08	25.39E	55 34.984N	012 08.423E
RK363	MAHF	55 37	22.86N	011 59	49.45E	55 37.381N	011 59.824E

RWY 29 from VIBUM (Initial STRAIGHT) APPROACH RNP

		CODING				DISPLAY	
VIBUM	IAF	55 28	51.26N	012 30	10.40E	55 28.854N	012 30.173E
RK292	IF	55 31	05.52N	012 22	16.35E	55 31.092N	012 22.273E
RK291	FAF	55 32	46.24N	012 16	18.95E	55 32.771N	012 16.316E
RW29	MAPt	55 34	59.03N	012 08	25.39E	55 34.984N	012 08.423E
RK363	MAHF	55 37	22.86N	011 59	49.45E	55 37.381N	011 59.824E

RWY 29 from NUSMO (Initial RIGHT) APPROACH RNP

		CODING				DISPLAY	
NUSMO	IAF	55 35	34.66N	012 26	12.99E	55 35.578N	012 26.217E
RK292	IF	55 31	05.52N	012 22	16.35E	55 31.092N	012 22.273E
RK291	FAF	55 32	46.24N	012 16	18.95E	55 32.771N	012 16.316E
RW29	MAPt	55 34	59.03N	012 08	25.39E	55 34.984N	012 08.423E
RK363	MAHF	55 37	22.86N	011 59	49.45E	55 37.381N	011 59.824E

Threshold coordinates RWY 29

		CODING				DISPLAY	
RWY 29		55 34	59.03N	012 08	25.39E	55 34.984N	012 08.423E

CHANGES: PROCEDURE RENAMED RNP

AIR COMMAND DENMARK - MIL AIM 26 JAN 2023

INTENTIONALLY

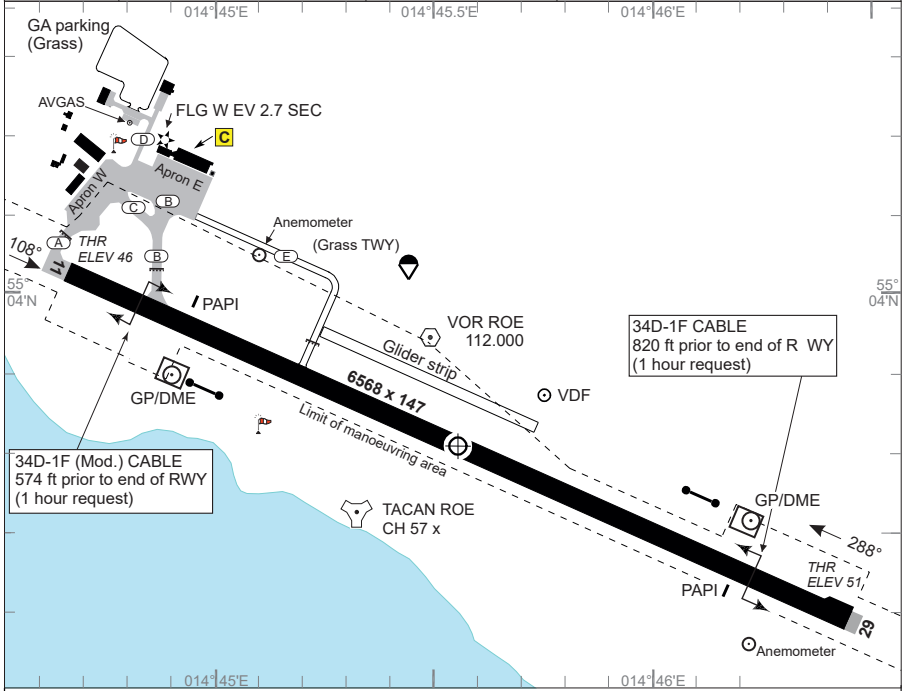
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AERODROME CHART

ROENNE (EKRN)

RØNNE TOWER 118.330 (VDF) 257.800		BORNHOLM HANDLING 131.550		REMARK: Airport phone: +45 56 95 26 26
AD Elev 52	ARP 55°03.80'N 014°45.58'E	VAR 5.5°E (JAN 2023)		



RWY	PCN	DECLARED DISTANCES					THR ELEV	RWY LIGHTING					THR PSN		
		PSN	TORA	TODA	ASDA	LDA		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: Climb straight ahead to at least 500 FT MSL before turn is commenced. Procedure design gradient 4.5% up to 800 FT MSL, due to cranes 525 FT - 2.1 NM NW from THR.

MIPS	CIRCLING MINIMA (SOUTH of aerodrome only)				
	A	B	C	D	E
500	-1.5 450 (500-1.5)	-1.6 650 (700-2.3)	-2.4 750 (800-2.7)	-3.6 750 (800-3.6)	-3.6 850 (900-3.6)

AERODROME CHART

ROENNE (EKRN)

MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 11
ROENNE (EKRN)

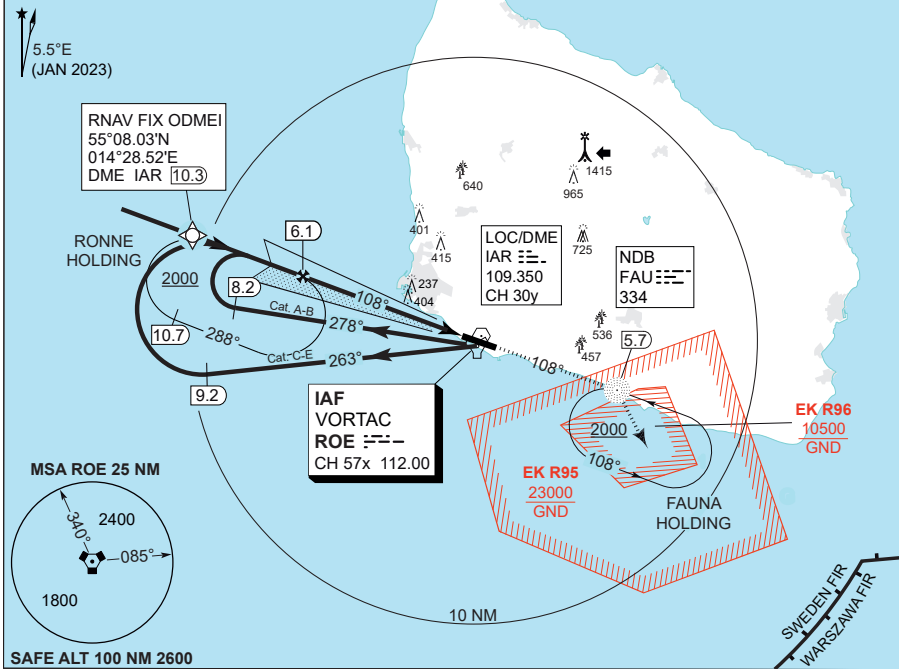
AD ELEV 52

SWEDEN CONTROL 134.980 128.180		ROENNE TOWER 257.800 118.330						
LOC/DME IAR 109.350/CH 30y	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

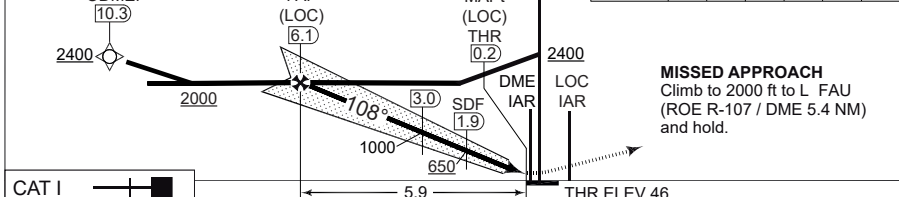
NOTE:

a CIRCLING SOUTH OF AERODROME ONLY

DME REQUIRED



TA 5000 GS 3° RDH 55	LOC CDF A 3° / 5.2%						
	DME IAR	6	5	4	3	2	1
	DIST THR	5.8	4.8	3.8	2.8	1.8	0.8
ALT	1960	1640	1320	1000	690	370	



CATEGORY	A	B	C	D	E
S-ILS 11	246 - 750 200 (200-0.8/1.2)				255 - 750 209 (300-0.8/1.2)
S-LOC 11	350 - 1000 304 (400-1.0/1.4)				
CIRCLING a	500 - 1.5 450 (500-1.5)	700 - 2.3 650 (700-2.3)	800 - 2.7 750 (800-2.7)	800 - 3.6 750 (800-3.6)	900 - 3.6 850 (900-3.6)

ILS or LOC RWY 11 55°03.80'N **ROENNE (EKRN)**
014°45.58'E
10-2

CHANGES: TMR FREQ CHG

MIPS

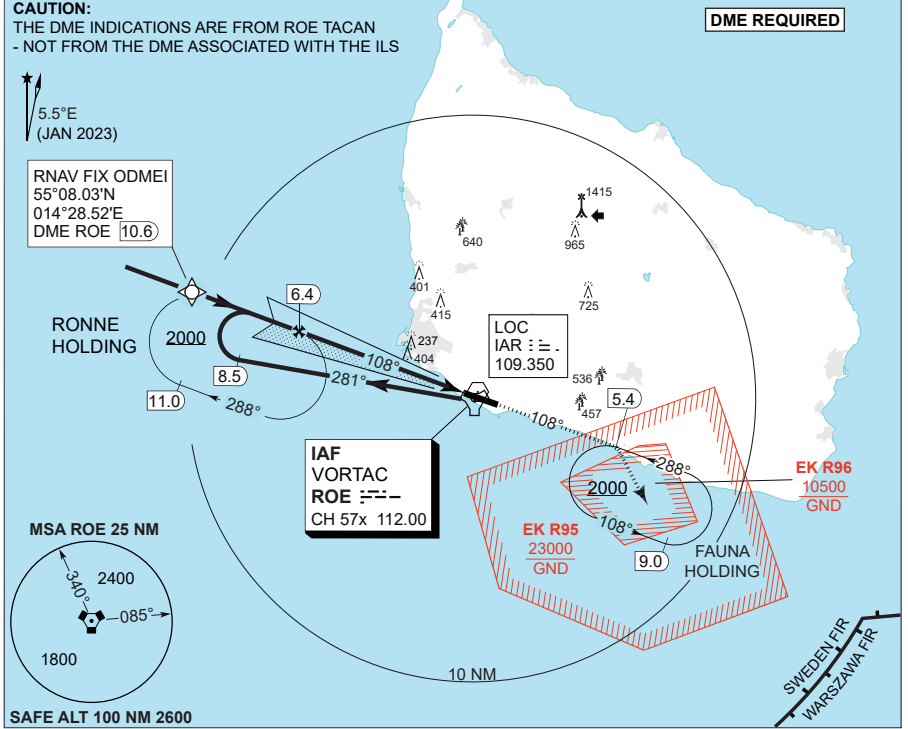
AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

MIPS
INSTRUMENT APPROACH CHART

AD ELEV 52

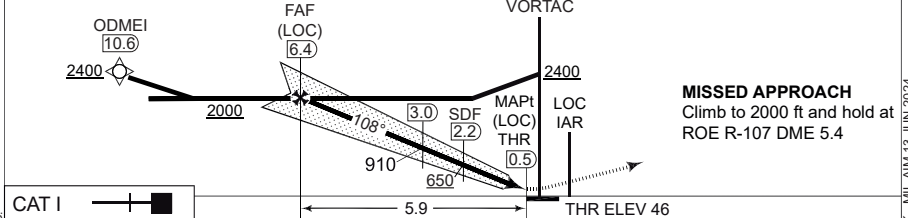
COPTER ILS or LOC RWY 11
ROENNE (EKRN)

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)

COPTER ILS or LOC RWY 11

55°03.80'N
014°45.58'E
10-3

ROENNE (EKRN)

EKRN

CHANGES: TWR FREQ CHG

MIPS

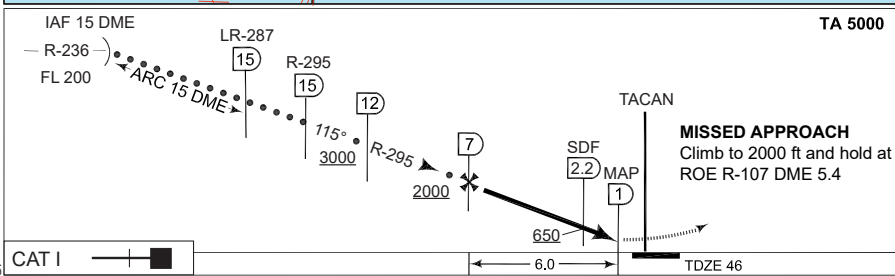
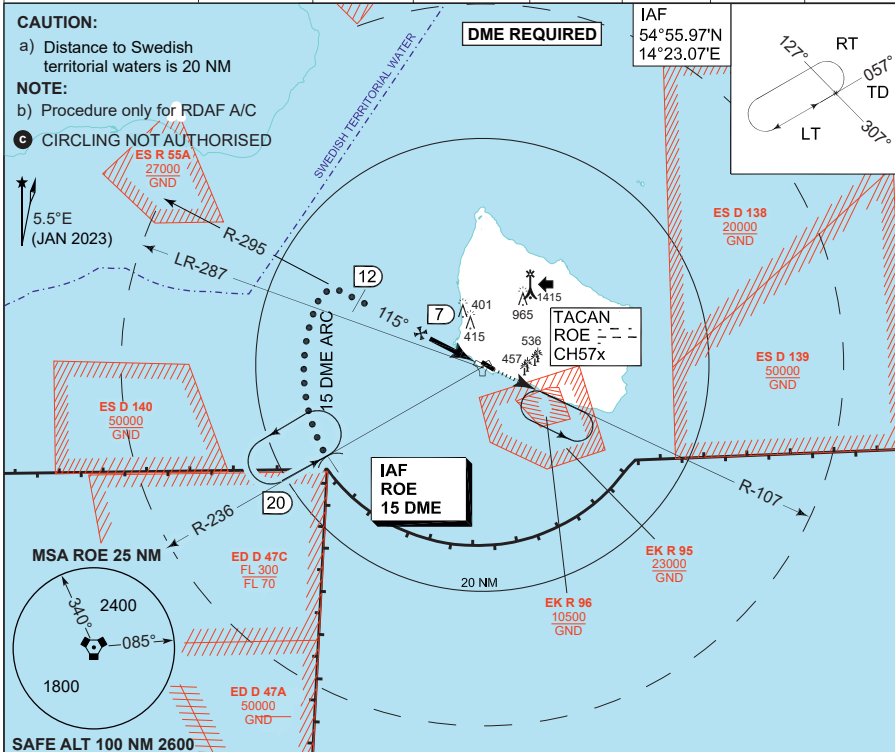
AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

**TERPS
INSTRUMENT APPROACH CHART**

**HI-TACAN RWY 11
ROENNE (EKRN)**

AD ELEV 52

SWEDEN CONTROL 134.980 128.180				ROENNE TOWER 257.800 118.330			
TACAN ROE CH 57x	APP COURSE 115°	FAF ALT 2000 FT	DESCENT GR 291 FT/NM	MDA 520	TDZE 46	ALS length 600 M	LDA 6568 FT



TERPS	CATEGORY	A	B	C	D	E
	S-TACAN 11	520 - 800 474 (500-0.8/1.6)		520 -1200 474 (500-1.2/2.0)	520 -1600 474 (500-1.6/2.4)	520 -2000 474 (500-2.0/2.8)
	CIRCLING c					

CHANGES: TWR FREQ CHG.

AIR COMMAND DENMARK - MIL ANIM 13 JUN 2024

HI-TACAN RWY 11

55°03.80'N
014°45.58'E

ROENNE (EKRN)

MIPS

INSTRUMENT APPROACH CHART

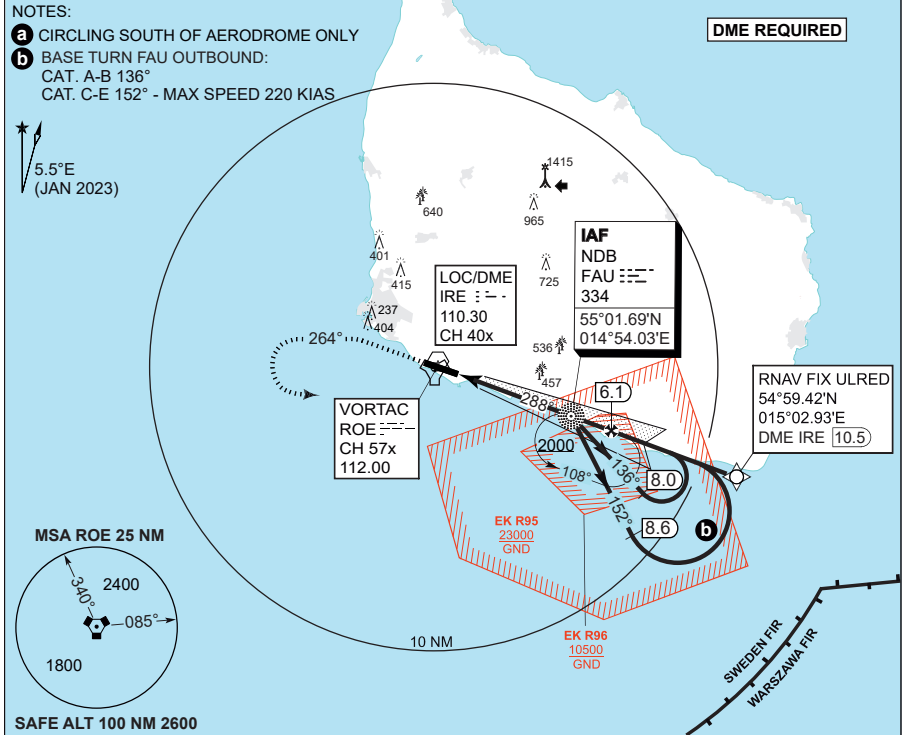
ILS or LOC RWY 29

ROENNE (EKRN)

AD ELEV 52

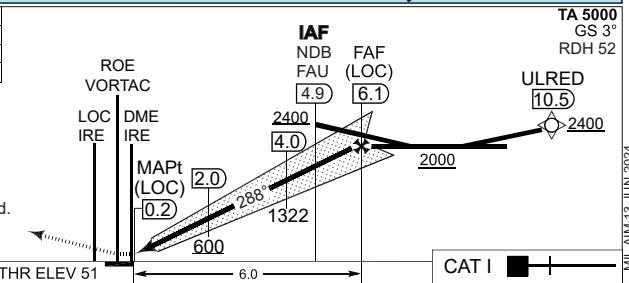
SWEDEN CONTROL 134.980 128.180			ROENNE TOWER 257.800 118.330				
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LOC/DME IRE 110.30/CH40x	VORTAC ROE 112.00/CH 57x	APP COURSE 288°	GS INTCP ALT 2000 FT	GS 3.0°	DA 251	THR 51	ALS length 900 M	LDA 6568 FT
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LOC CDFA 3.00° / 5.2%					
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

MISSED APPROACH
Climb to minimum 700 ft, turn left and climb on track 264° to 2000 ft. Turn left to FAU NDB (ROE R-107, IRE DME 4.9) and hold.



CATEGORY	A	B	C	D	E
S-ILS 29			251 - 550 200 (200-0.8/1.2)		
S-LOC 29			400 - 900 349 (400-0.9/1.6)		
CIRCLING a	500 - 1.5 450 (500-1.5)	700 - 2.3 650 (700-2.3)	800 - 2.7 750 (800-2.7)	800 - 3.6 750 (800-3.6)	900 - 3.6 850 (900-3.6)

ILS or LOC RWY 29

55 03.80°N
014 45.58°E
10-5

ROENNE (EKRN)

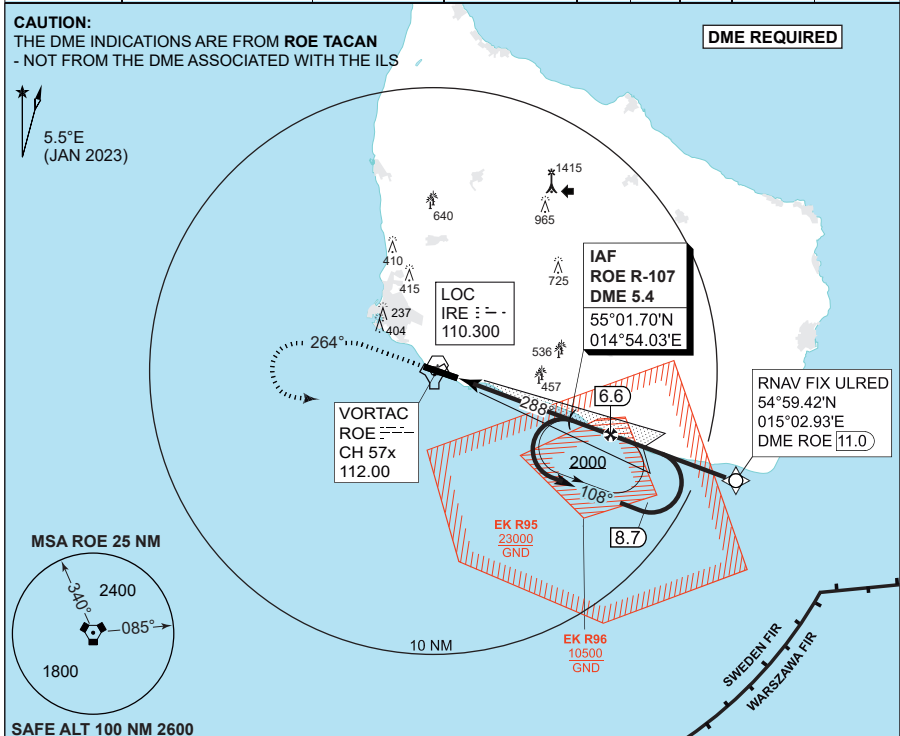
EKRN

CHANGES: TWR FREQ CHG

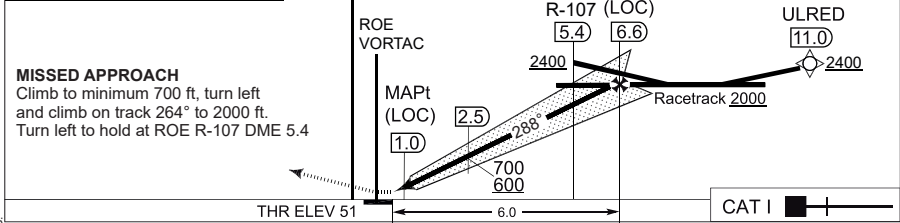
AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

MIPS **COPTER ILS or LOC RWY 29**
INSTRUMENT APPROACH CHART AD ELEV 52 **ROENNE (EKRN)**

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



DME ROE	2	3	4	5	6	LOC IRE	IAF ROE R-107 (LOC)	TA 5000
DIST THR	1.4	2.4	3.4	4.4	5.4	ROE VORTAC	FAF	GS 3°
ALT	540	860	1180	1500	1820	MAPt (LOC)	ULRED	RDH 52



MIPS	CATEGORY	H
	H-ILS 29	251 - 400 200 (200-0.4/0.8)
	H-LOC 29	400 - 500 349 (400-0.5/0.8)

CHANGES: TWR, FREQ, CHG

AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

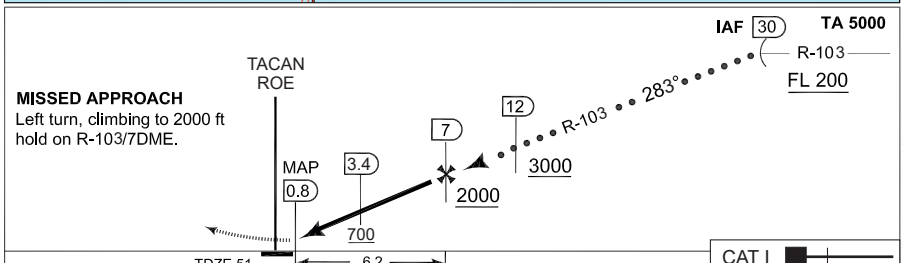
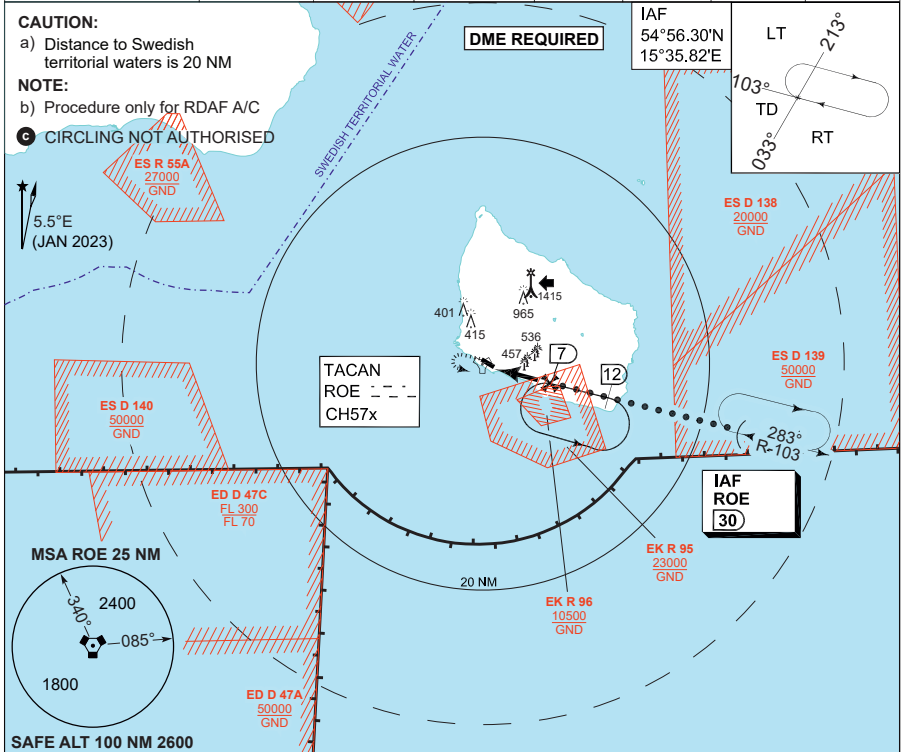
TERPS
INSTRUMENT APPROACH CHART

AD ELEV 52

HI-TACAN RWY 29
ROENNE (EKRN)

SWEDEN CONTROL 134.980 128.180				ROENNE TOWER 257.800 118.330			
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TACAN ROE CH 57x	APP COURSE 283°	FAF ALT 2000 FT	DESCENT GR 314 FT/NM	MDA 440	TDZE 51	ALS length 900 M	LDA 6568 FT
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TERPS	CATEGORY	A	B	C	D	E
S-TACAN 29		440 - 800 389 (400-0.8/1.6)		440 -1200 389 (400-1.2/1.6)	440 -1200 389 (400-1.2/2.0)	
CIRCLING c						

HI-TACAN RWY 29

55°03.80'N
014°45.58'E
10-7

ROENNE (EKRN)

EKRN

CHANGES: TMR FREQ CHG.

AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

INTENTIONALLY

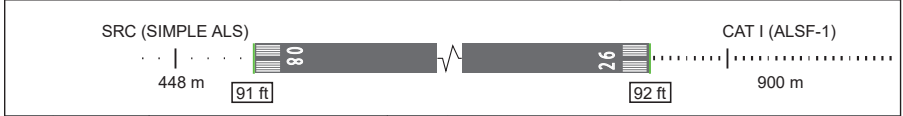
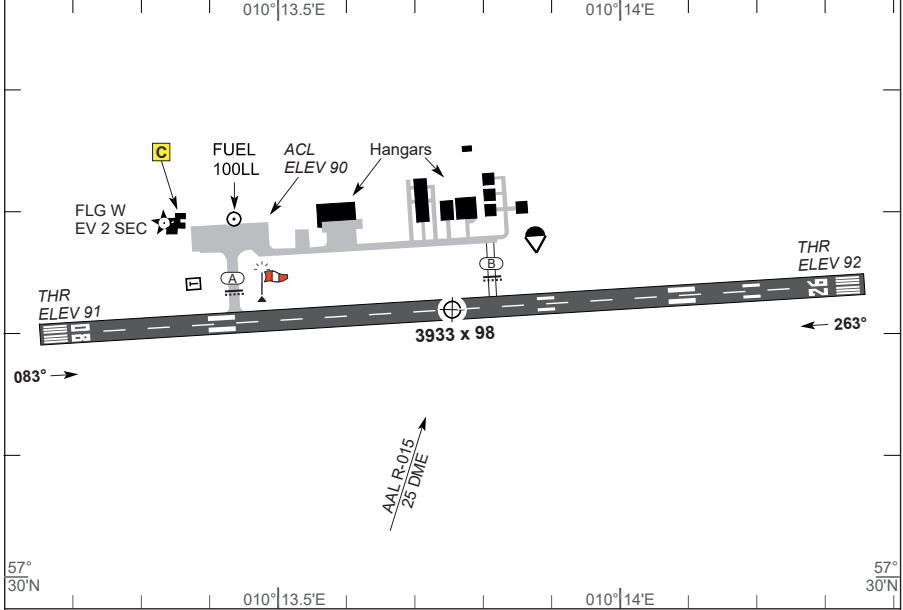
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AERODROME CHART

SINDAL (EKSJ)

SINDAL RADIO 118.750		AALBORG APPROACH 123.980		Sindal Airport: +45 98 93 58 00
AD Elev 92		ARP 57°30.21'N 010°13.76'E	VAR 3.0°E (JAN 2020)	Briefing EKCH*: +45 32 47 82 72
				Flight plan closing (ACC)*: +45 32 46 23 38
				*outside AD hours



RWY	PCN	DECLARED DISTANCES				THR ELEV	RWY LIGHTING					THR PSN	
		TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE		END
08	24 F/B/Y/T	3933	4261	3933	3933	91	LIH	N/A			LIH	LIH	57°30.19'N 010°13.16'E
26	24 F/B/Y/T	3933	4261	3933	3933	92	LIH	N/A			LIH	LIH	57°30.23'N 010°14.36'E

AD approved for:
 a. VMC day and VFR night operations.
 b. Self-service when ADO is closed.

Outside ADO/ARO hours: Obtain PPR for self-service on phone number +45 98 93 58 00 (H24).

Customs available during regular ADO hours. Require 1 hour PN.

Refuelling 100 LL (100 L/MIN).

Parachuting may take place.

CHANGES: SINDAL FIZ / RMZ AND L SD WITHDRAWN.

AIR COMMAND DENMARK - MIL-LAIM 22 FEB 2024

AERODROME CHART

SINDAL (EKSJ)



INTENTIONALLY

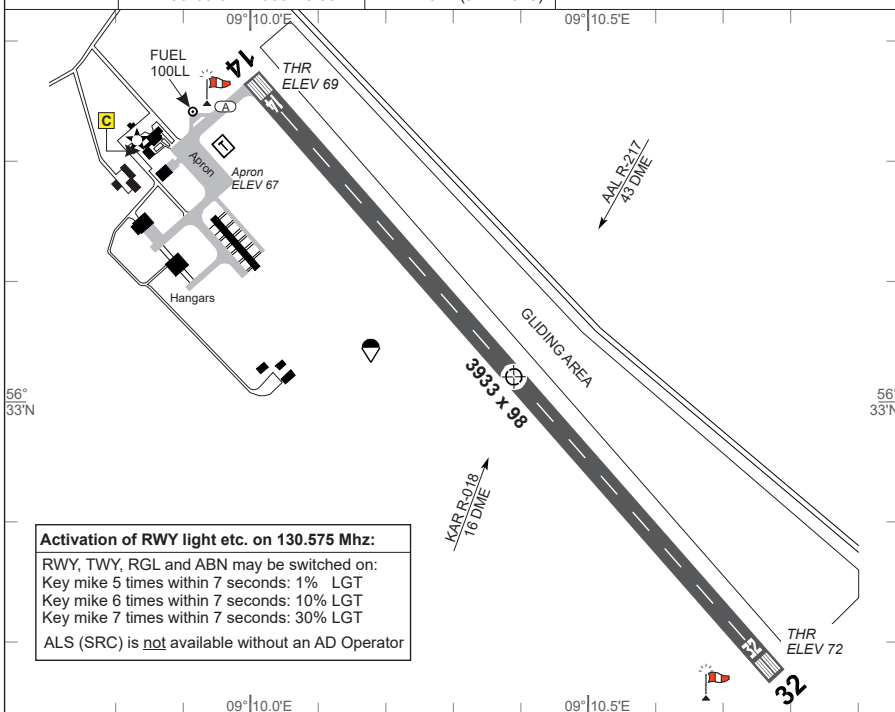
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AERODROME CHART

SKIVE (EKSV)

SKIVE RADIO 130.575		KARUP APPROACH 292.750 / 120.430		Skive Airport: +45 97 53 57 77
AD Elev 74		ARP 56°33.01'N 009°10.38'E		Briefing EKCH: +45 32 47 82 72
		VAR 2.5°E (JAN 2018)		Flight plan closing (ACC): +45 32 46 23 38



Activation of RWY light etc. on 130.575 Mhz:
 RWY, TWY, RGL and ABN may be switched on:
 Key mike 5 times within 7 seconds: 1% LGT
 Key mike 6 times within 7 seconds: 10% LGT
 Key mike 7 times within 7 seconds: 30% LGT
 ALS (SRC) is not available without an AD Operator



RWY	PCN	TORA	TODA	ASDA	LDA	THR ELEV	RWY LIGHTING					THR PSN	
							THR	PAPI	TDZ	CL	EDGE		END
14	12 F/A/Y/T	3933	3933	3933	3933	69	LIH	N/A			LIH	LIH	56°33.26'N 09°10.00'E
32	12 F/A/Y/T	3933	3933	3933	3933	72	LIH	N/A			LIH	LIH	56°32.77'N 09°10.76'E

AD approved for VMC day and VFR night operations. Self-service only. The Airfield log must be updated for all operations (by the Pilot), including "Touch and Go" and "Low passes". All registrations must be updated not later than 12.00 the next working day, or by www.eksv.dk
 Fuel available PPR 2 HR PN on telephone: +45 97 51 12 95 between 0900 - 1500 (0800-1400). Only with local card or cash (Dankort and VISA accepted).
 Customs: The airport is open for traffic to/from all States. Hours for customs clearance and immigration on PN submitted MON-FRI 0900-1500 (0800-1400) not later than 2 hours before flight is commenced. TEL: +45 97 51 12 95.

- Local Regulations/Remarks**
- a. Overflying the town Vinkel (1 NM NW of ARP) during TKOF / LDG and Landing exercises should be avoided.
 - b. Launching of gliders by cable may take place. When gliding is taking place, overflying the aerodrome should be avoided below 2000 FT MSL. Landing will take place NE of RWY. Gliders shall use frequency 130.575 during take off / landing and traffic circuit.
 - c. Parachuting may take place. Landing will take place SW of RWY

CHANGES: KAR APP FREQ.

AIR COMMAND DENMARK - MIL AIM 18 APR 2024

AERODROME CHART

SKIVE (EKSV)



INTENTIONALLY

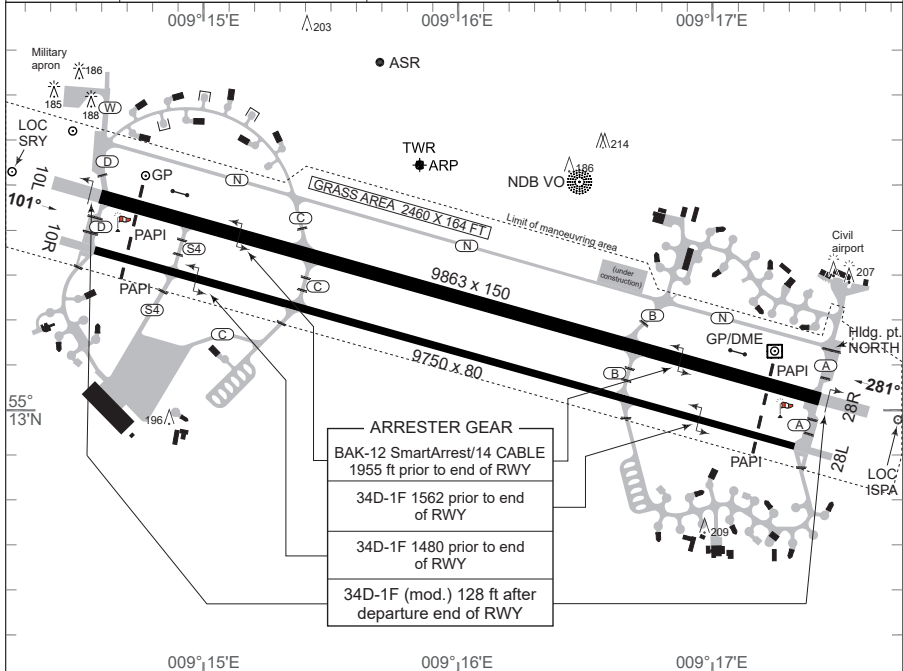
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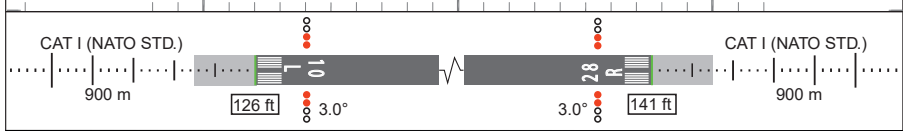
AERODROME CHART

SKRYDSTRUP (EKSP)

SKRYDSTRUP ATIS 133.905	SKRYDSTRUP TOWER 286.375 / 118.280	SKRYDSTRUP APPROACH 315.100 / 124.105	AD Admin and FPL: Email: +45 72 84 81 22 comm.skpops@mil.dk
AD Elev 141	ARP 55°13.53'N 009°15.84'E	VAR 3.7°E (JAN 2023)	



— ARRESTER GEAR —
 BAK-12 SmartArrest/14 CABLE
 1955 ft prior to end of RWY
 34D-1F 1562 prior to end of RWY
 34D-1F 1480 prior to end of RWY
 34D-1F (mod.) 128 ft after departure end of RWY



RWY	PCN	DECLARED DISTANCES				THR ELEV	RWY LIGHTING					THR PSN	
		TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE		END
10L	90 F/B/W/T Asphalt/ Concrete	9863	9863	10597	9863	126	LIH	3°			LIH	LIH	55°13.48'N 009°14.64'E
28R		9863	9863	10600	9863	141	LIH	3°			LIH	LIH	55°13.05'N 009°17.37'E
10R	77 F/B/W/T Asphalt/ Concrete	9750	9750	10237	9750	124	LIL	3°			LIL	LIL	55°13.36'N 009°14.60'E
28L		9750	9750	10237	9750	139	LIL	3°			LIL	LIL	55°12.94'N 009°17.30'E

Gliding may take place outside hours of MIL operations.
 Gliding may take place at Rødekro.

Omnidirectional IFR-departures:

RWY 10L & R: Climb straight ahead to at least 700 FT AMSL before turn is commenced.
 RWY 28R & L: Climb straight ahead to at least 600 FT AMSL before turn is commenced.

MIPS	CIRCLING MINIMA								
	A	B	C	D	E				
630	-1.5 489 (500-1.5)	700	-1.6 559 (600-1.6)	800	-2.4 659 (700-2.4)	890	-3.6 749 (800-3.6)	1490	-3.6 1349 (1400-3.6)

AERODROME CHART

SKRYDSTRUP (EKSP)

CHANGES: ATC VHF FREQ.

AIR COMMAND DENMARK - MIL AIN 18 APR 2024

MIPS
INSTRUMENT APPROACH CHART

AD ELEV 141

ILS or LOC RWY 10L
SKRYDSTRUP (EKSP)

COPENHAGEN CONTROL 360.100 133.155	SKRYDSTRUP ATIS 133.905	SKRYDSTRUP APPROACH 315.100 124.105	SKRYDSTRUP TOWER 286.375 118.280
LOC-DME ISPA 109.35/CH 30y	APP COURSE 101°	FAP/FAF ALT 2000 FT	GS 3.00°
		DA 326	THR 126
		ALS length 900 M	LDA 9863 FT

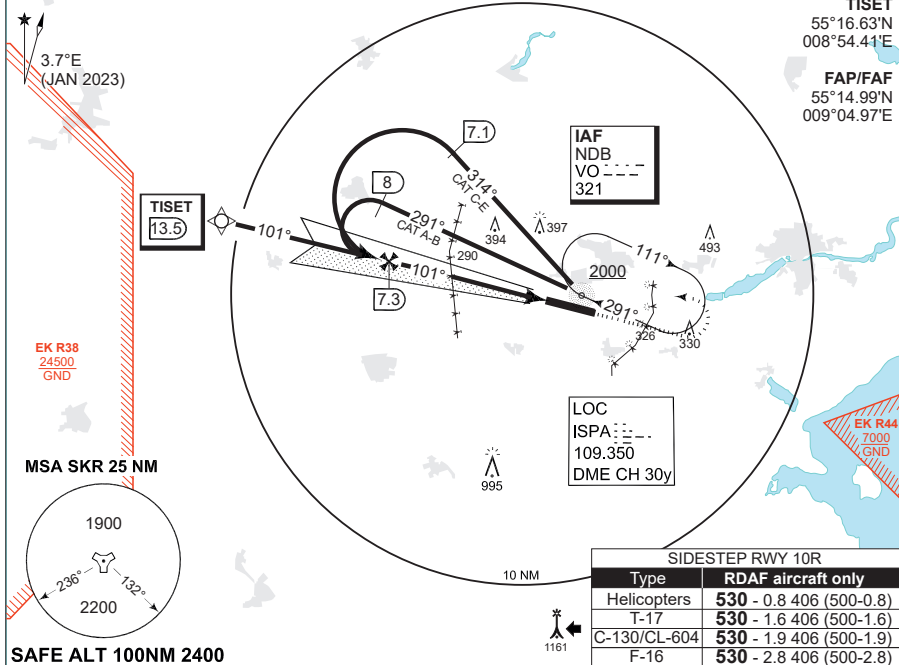
NOTE:
SPEED RESTRICTION ACFT CAT C-E:
Base turn limited to 240 KIAS maximum

DME REQUIRED

IAF (NDB VO)
55°13.48'N
009°16.42'E

TISET
55°16.63'N
008°54.41'E

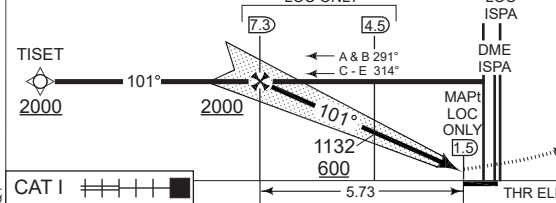
FAP/FAF
55°14.99'N
009°04.97'E



SIDESTEP RWY 10R	
Type	RDAF aircraft only
Helicopters	530 - 0.8 406 (500-0.8)
T-17	530 - 1.6 406 (500-1.6)
C-130/CL-604	530 - 1.9 406 (500-1.9)
F-16	530 - 2.8 406 (500-2.8)

TA 3000
GS 3.00°
RDH 50

LOC ONLY (CDFA 3.0° / 5.24%)					
DIST TO THR (NM)	5	4	3	2	1
DME ISPA (NM)	6.5	5.5	4.5	3.5	2.5
ALT	1770	1450	1130	820	500



MISSED APPROACH
Climb on HDG 101° to 2000 FT.
Then turn left to join NDB VO holding.

CATEGORY	MIPS				
	A	B	C	D	E
S-ILS 10L			326	-550 200 (200-0.8/1.2)	
S-LOC 10L			410	-750 284 (300-0.8/1.4)	
CIRCLING	630	-1.5 489 (500-1.5)	700	-1.6 559 (600-1.6)	800
				-2.4 659 (700-2.4)	890
					-3.6 749 (800-3.6)
					1490
					-3.6 1349 (1400-3.6)

ILS or LOC RWY 10L

55°13.53'N
009°15.84'E
13-2

SKRYDSTRUP (EKSP)

CHANGES: ATC VHF FREQ.

AIR COMMAND DENMARK - MIL-AIM 18 APR 2024

MIPS INSTRUMENT APPROACH CHART

AD ELEV 141

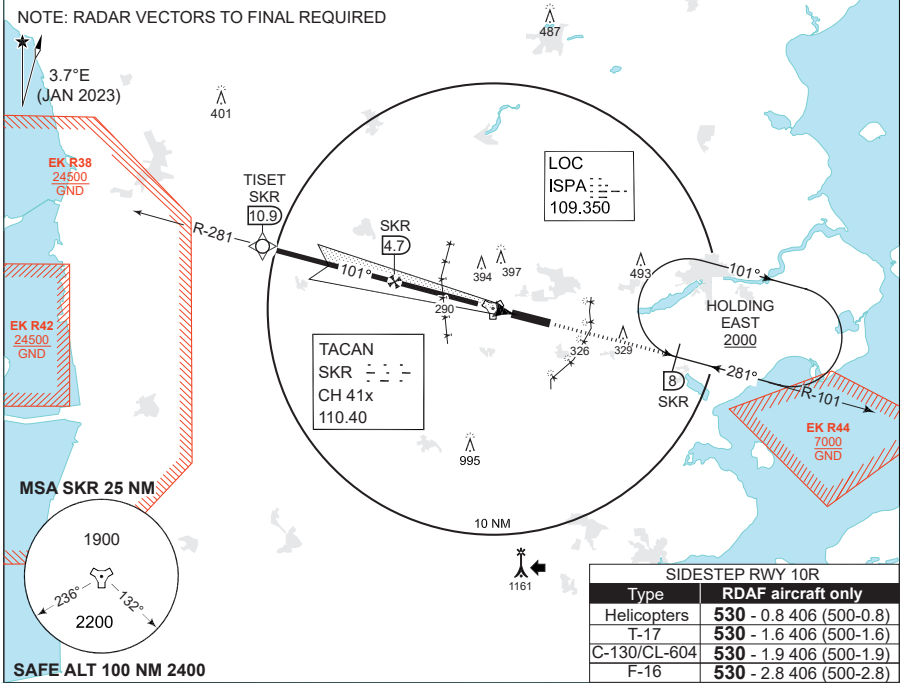
ILS or LOC Z RWY 10L SKRYDSTRUP (EKSP)

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP ATIS 133.905		SKRYDSTRUP APPROACH 315.100 124.105		SKRYDSTRUP TOWER 286.375 118.280		
TACAN SKR 110.4/CH 41x	LOC ISPA 109.35	APP COURSE 101°	FAP/FAF ALT 2000 FT	GS 3.00°	DA 326	THR 126	ALS length 900 M	LDA 9863 FT

CAUTION:
THE DME INDICATIONS ARE FROM TACAN SKR
- NOT FROM THE DME ASSOCIATED WITH THE ILS
NOTE: RADAR VECTORS TO FINAL REQUIRED

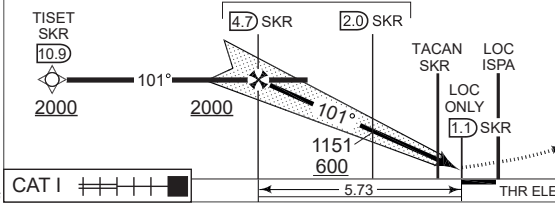
DME REQUIRED

TISET
55° 16.63'N
008° 54.41'E



SIDESTEP RWY 10R	
Type	RDAF aircraft only
Helicopters	530 - 0.8 406 (500-0.8)
T-17	530 - 1.6 406 (500-1.6)
C-130/CL-604	530 - 1.9 406 (500-1.9)
F-16	530 - 2.8 406 (500-2.8)

TA 3000
GS 3.00°
RDH 50



LOC ONLY (CDFA 3.0° / 5.24%)					
DIST TO THR (NM)	5	4	3	2	1
DME SKR (NM)	3.9	2.9	1.9	0.9	0.1
ALT	1770	1450	1140	820	500

CAT I

CATEGORY	A	B	C	D	E
S-ILS 10L			326 -550 200 (200-0.8/1.2)		
S-LOC 10L			410 -750 284 (300-0.8/1.4)		
CIRCLING	630 -1.5 489 (500-1.5)	700 -1.6 559 (600-1.6)	800 -2.4 659 (700-2.4)	890 -3.6 749 (800-3.6)	1490 -3.6 1349 (1400-3.6)

ILS or LOC Z RWY 10L

55°13.53'N
009°15.84'E
13-3

SKRYDSTRUP (EKSP)

CHANGES: ATC VHF FREQ.

MIPS

AIR COMMAND DENMARK - MIL AIN 18 APR 2024

EKSP

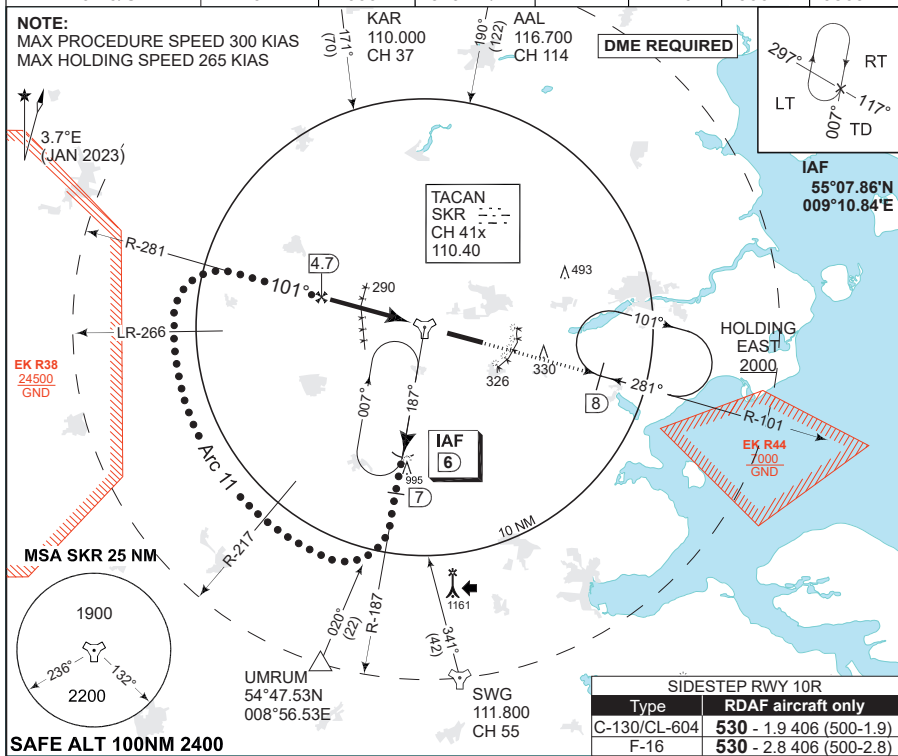
MIPS
INSTRUMENT APPROACH CHART

HI-TACAN RWY 10L
SKRYDSTRUP (EKSP)

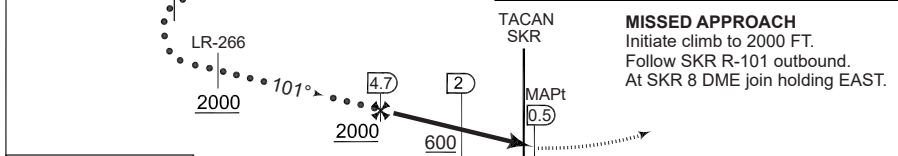
AD ELEV 141

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP ATIS 133.905	SKRYDSTRUP APPROACH 315.100 124.105		SKRYDSTRUP TOWER 286.375 118.280	
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TACAN SKR 110.40/CH 41x	APP COURSE 101°	FAF ALT 2000 FT	DESCENT GR 319 FT/NM	MDA 430	THR ELEV 126	ALS length 900 M	LDA 9863 FT
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TA 3000	R-217 4000	Arc 11°	187°	R-187	FL 150	FL 060																							
<table border="1"> <thead> <tr> <th colspan="5">CDFA 3.0° / 5.24%</th> </tr> </thead> <tbody> <tr> <td>DME SKR</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> <td>0</td> </tr> <tr> <td>DIST to THR</td> <td>5.1</td> <td>4.1</td> <td>3.1</td> <td>2.1</td> <td>1.1</td> </tr> <tr> <td>ALT</td> <td>1790</td> <td>1470</td> <td>1150</td> <td>830</td> <td>520</td> </tr> </tbody> </table>							CDFA 3.0° / 5.24%					DME SKR	4	3	2	1	0	DIST to THR	5.1	4.1	3.1	2.1	1.1	ALT	1790	1470	1150	830	520
CDFA 3.0° / 5.24%																													
DME SKR	4	3	2	1	0																								
DIST to THR	5.1	4.1	3.1	2.1	1.1																								
ALT	1790	1470	1150	830	520																								



CAT I	2.70	5.73	3.06	THR ELEV 126
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CATEGORY	C	D	E
S-TACAN 10L	430 - 750 304 (400-0.8/1.4)		
CIRCLING	800 - 2.4 659 (700-2.4)	890 - 3.6 749 (800-3.6)	1490 - 3.6 1349 (1400-3.6)

HI-TACAN RWY 10L 55°13.53'N 009°15.84'E **SKRYDSTRUP (EKSP)**

CHANGES: ATC VHF FREQ.

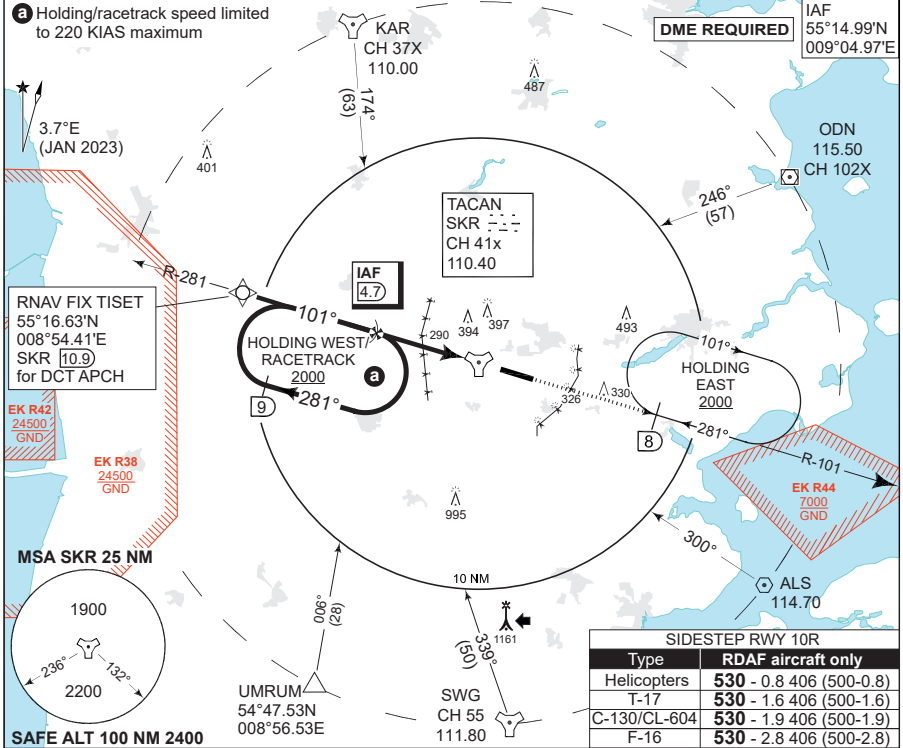
AIR COMMAND DENMARK - MIL-AIM 18 APR 2024

MIPS INSTRUMENT APPROACH CHART

TACAN RWY 10L SKRYDSTRUP (EKSP)

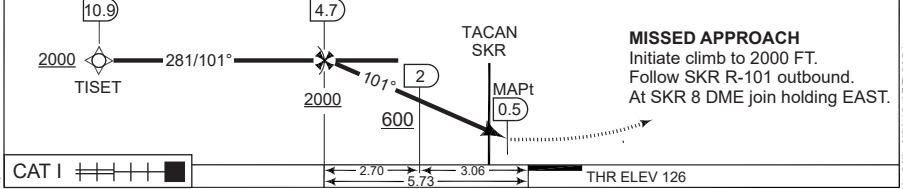
AD ELEV 141

COPENHAGEN CONTROL 360.100 133.155	SKRYDSTRUP ATIS 133.905	SKRYDSTRUP APPROACH 315.100 124.105	SKRYDSTRUP TOWER 286.375 118.280
TACAN SKR 110.40/CH 41x	APP COURSE 101°	FAF ALT 2000 FT	DESCENT GR 319 FT/NM
		MDA See minima	THR ELEV 126
		ALS length 900 M	LDA 9863 FT



TA 3000

	CDFA 3.0° / 5.24%				
DME SKR	4	3	2	1	0
DIST to THR	5.1	4.1	3.1	2.1	1.1
ALT	1790	1470	1150	830	520



CATEGORY	A	B	C	D	E
S-TACAN 10L	430 -750 304 (400-0.8/1.4)				
CIRCLING	630 -1.5 489 (500-1.5)	700 -1.6 559 (600-1.6)	800 -2.4 659 (700-2.4)	890 -3.6 749 (800-3.6)	1490 -3.6 1349 (1400-3.6)

TACAN RWY 10L 55°13.53'N 009°15.84'E 13-5

SKRYDSTRUP (EKSP)

CHANGES: ATC VHF FREQ.

AIR COMMAND DENMARK - MIL. AIX 18 APR 2024

MIPS
INSTRUMENT APPROACH CHART

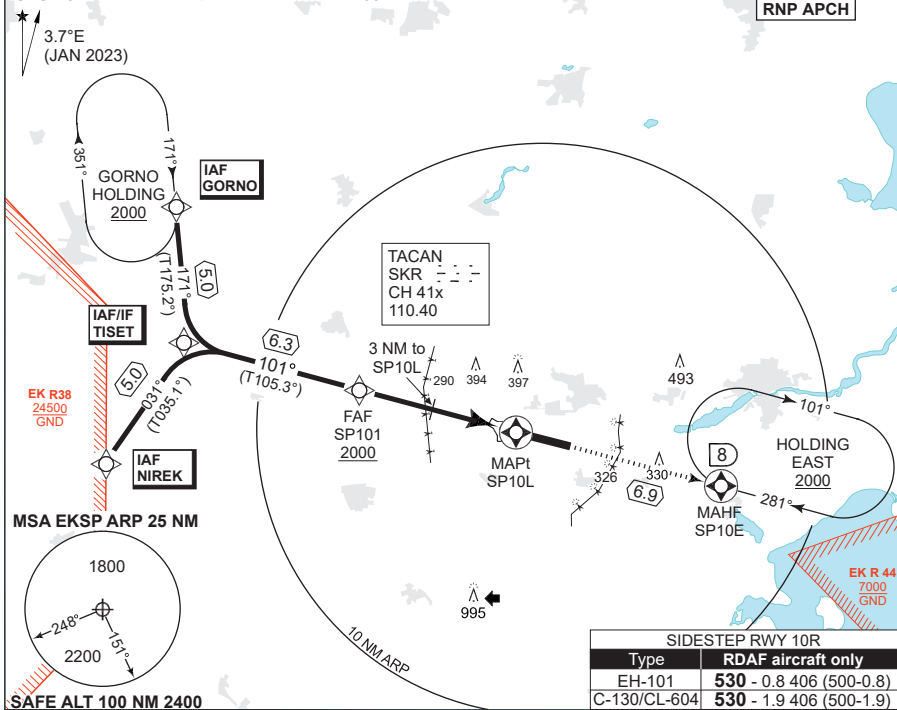
AD ELEV 141

RNP RWY 10L
SKRYDSTRUP (EKSP)

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP ATIS 133.905		SKRYDSTRUP APPROACH 315.100 124.105		SKRYDSTRUP TOWER 286.375 118.280	
TACAN SKR 110.40/CH 41x	APP COURSE 101°	FAF 2000 FT	Descent GR 3.0° (5.24%)	MINIMA See CAT	THR ELEV 126	ALS LENGTH 900 M	LDA 9863 FT

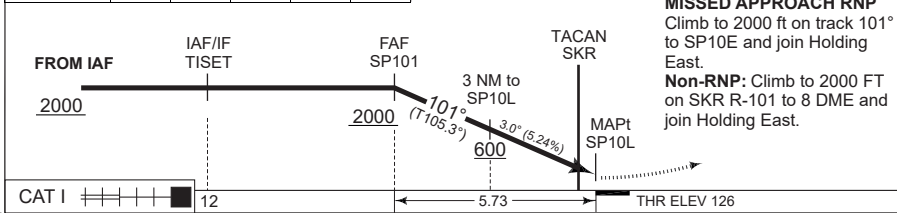
CAUTION: IAF NIREK not available when EK R38 is active

RNP APCH



CDFA 3.0° / 5.24%					
DIST THR	5	4	3	2	1
ALTITUDE	1770	1450	1130	820	500

TA 3000
TCH 50



MIPS	CATEGORY	A	B	C	D	E
	LNAV (MDA)	440 - 750 314 (400-0.8/1.4)			450 - 800 324 (400-0.8/1.5)	
	CIRCLING	630 - 1.5 489 (500-1.5)	700 - 1.6 559 (600-1.6)	800 - 2.4 659 (700-2.4)	890 - 3.6 749 (800-3.6)	1490 - 3.6 1349 (1400-3.6)

RNP RWY 10L

55°13.53'N
009°15.84'E
13-6

SKRYDSTRUP (EKSP)

CHANGES: ATC VHF FREQ.

AIR COMMAND DENMARK - MIL-AIM 18 APR 2024

EKSP RNP RWY 10L waypoint coordinates:

RWY 10L from GORNO (Initial LEFT) APPROACH RNP

		CODING				DISPLAY	
GORNO	IAF	55 21 36.42N	008 53 40.61E	55 21.607N	008 53.677E		
TISET	IF	55 16 38.04N	008 54 24.63E	55 16.634N	008 54.411E		
SP101	FAF	55 14 59.49N	009 04 58.83E	55 14.992N	009 04.981E		
SP10L	MAPt	55 13 28.56N	009 14 38.19E	55 13.476N	009 14.637E		
SP10E	MAHF	55 11 41.35N	009 26 14.79E	55 11.689N	009 26.247E		

RWY 10L from NIREK (Initial RIGHT) APPROACH RNP

		CODING				DISPLAY	
NIREK	IAF	55 12 32.90N	008 49 23.52E	55 12.548N	008 49.392E		
TISET	IF	55 16 38.04N	008 54 24.63E	55 16.634N	008 54.411E		
SP101	FAF	55 14 59.49N	009 04 58.83E	55 14.992N	009 04.981E		
SP10L	MAPt	55 13 28.56N	009 14 38.19E	55 13.476N	009 14.637E		
SP10E	MAHF	55 11 41.35N	009 26 14.79E	55 11.689N	009 26.247E		

Threshold coordinates RWY 10L

		CODING				DISPLAY	
RWY 10L		55 13 28.56N	009 14 38.19E	55 13.476N	009 14.637E		

CHANGES: PROCEDURE RENAMED RNP

AIR COMMAND DENMARK - MIL_AIM 26 JAN 2023

MIPS INSTRUMENT APPROACH CHART

ILS or LOC RWY 28R SKRYDSTRUP (EKSP)

AD ELEV 141

COPENHAGEN CONTROL 360.100 133.155	SKRYDSTRUP ATIS 133.905	SKRYDSTRUP APPROACH 315.100 124.105	SKRYDSTRUP TOWER 286.375 118.280
LOC / DME SRY 109.35/CH 30y	APP COURSE 281°	GS INTCP ALT 2200 FT	GS 3.0°
		DA 341	THR ELEV 141
		ALS LENGTH 900 M	LDA 9863 FT

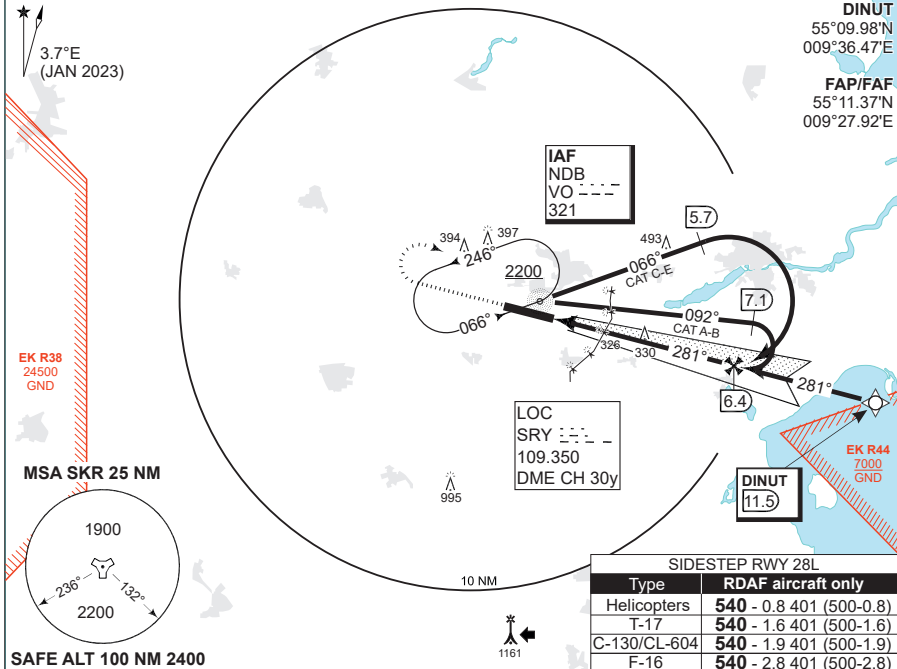
NOTE:
SPEED RESTRICTION ACFT CAT C-E:
Base turn limited to 240 KIAS maximum

DME REQUIRED

IAF (NDB VO)
55°13.48'N
009°16.42'E

DINUT
55°09.98'N
009°36.47'E

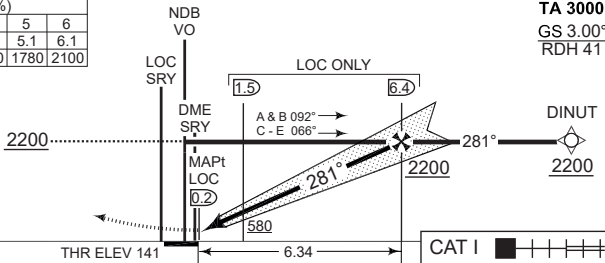
FAP/FAF
55°11.37'N
009°27.92'E



LOC ONLY (CDFA 3.0° / 5.24%)						
DIST TO THR (NM)	1	2	3	4	5	6
DME SRY (NM)	1.1	2.1	3.1	4.1	5.1	6.1
ALT	500	820	1140	1460	1780	2100

TA 3000
GS 3.00°
RDH 41

MISSED APPROACH
Climb on RWY HDG to 2200 FT. Turn right to join holding at NDB VO.



CATEGORY	A	B	C	D	E
S-ILS/DME 28R			341	-550 200 (200-0.8/1.2)	
S-LOC/DME 28R			470	-800 329 (400-0.8/1.5)	
CIRCLING	630	-1.5 489 (500-1.5)	700	-1.6 559 (600-1.6)	800
				-2.4 659 (700-2.4)	890
					-3.6 749 (800-3.6)
					1490
					-3.6 1349 (1400-3.6)

ILS or LOC RWY 28R

55°13.53'N
009°15.84'E
13-8

SKRYDSTRUP (EKSP)

CHANGES: ATC VHF FREQ.

MIPS

AIR COMMAND DENMARK - MIL-AIM 18 APR 2024

MIPS INSTRUMENT APPROACH CHART

AD ELEV 141

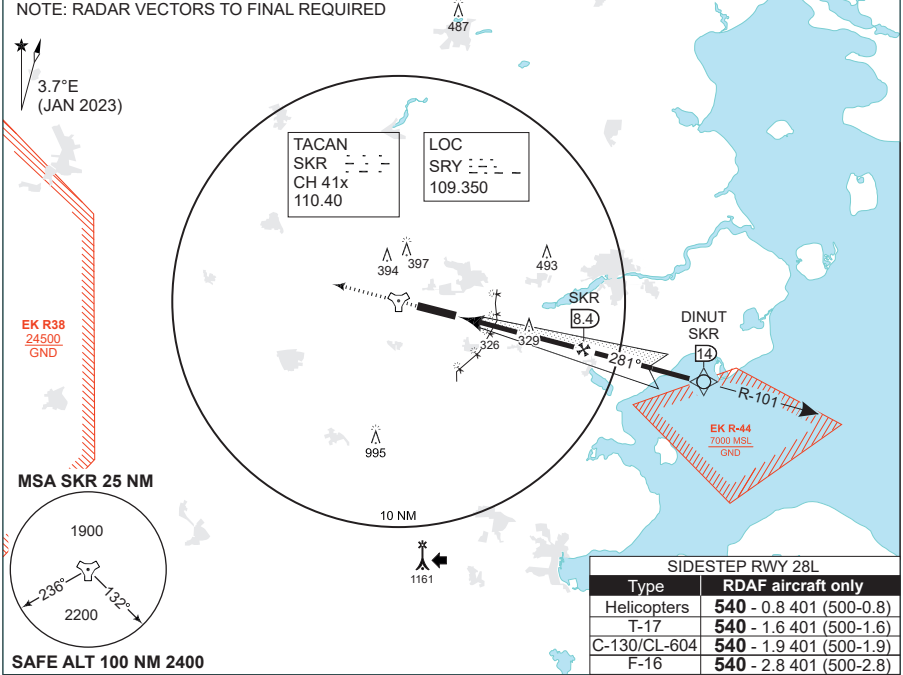
ILS or LOC Z RWY 28R SKRYDSTRUP (EKSP)

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP ATIS 133.905		SKRYDSTRUP APPROACH 315.100 124.105			SKRYDSTRUP TOWER 286.375 118.280		
TACAN SKR 110.40/CH 41x	LOC SRY 109.35	APP COURSE 281°	GS INTCP ALT 2000 FT	GS 3.0°	DA 341	THR 141	ALS length 900 M	LDA 9863 FT	

CAUTION:
THE DME INDICATIONS ARE FROM TACAN SKR
- NOT FROM THE DME ASSOCIATED WITH THE ILS
NOTE: RADAR VECTORS TO FINAL REQUIRED

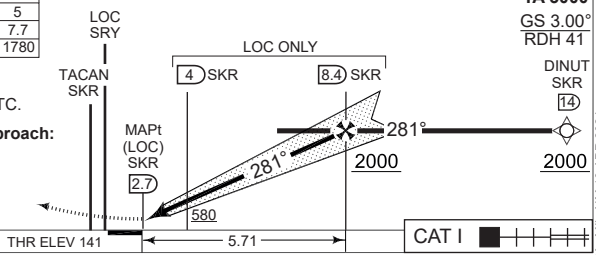
DME REQUIRED

DINUT
55° 09.98'N
009° 36.48'E



LOC ONLY (CDFA 3.0° / 5.24%)					
DIST TO THR (NM)	1	2	3	4	5
DME SKR (NM)	3.7	4.7	5.7	6.7	7.7
ALT	500	820	1140	1460	1780

MISSED APPROACH
Climb on track 281° to 2000 ft. Inform ATC.
Radio com. failure during Missed Approach:
Initiate climb to 2000 ft on track 281°. When passing 1000 ft turn left inbound SKR R-101/8.4 DME and hold. Squawk 7600.



CATEGORY	A	B	C	D	E
S-ILS/DME 28R			341	-550 200 (200-0.8/1.2)	
S-LOC/DME 28R			470	-800 329 (400-0.8/1.5)	
CIRCLING	630 -1.5 489 (500-1.5)	700 -1.6 559 (600-1.6)	800 -2.4 659 (700-2.4)	890 -3.6 749 (800-3.6)	1490 -3.6 1349 (1400-3.6)

ILS or LOC Z RWY 28R

55°13.53'N
009°15.84'E
13-9

SKRYDSTRUP (EKSP)

CHANGES: ATC VHF FREQ.

MIPS

AIR COMMAND DENMARK - MIL. AIN. 18 APR 2024

EKSP

MIPS
INSTRUMENT APPROACH CHART

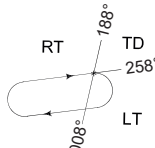
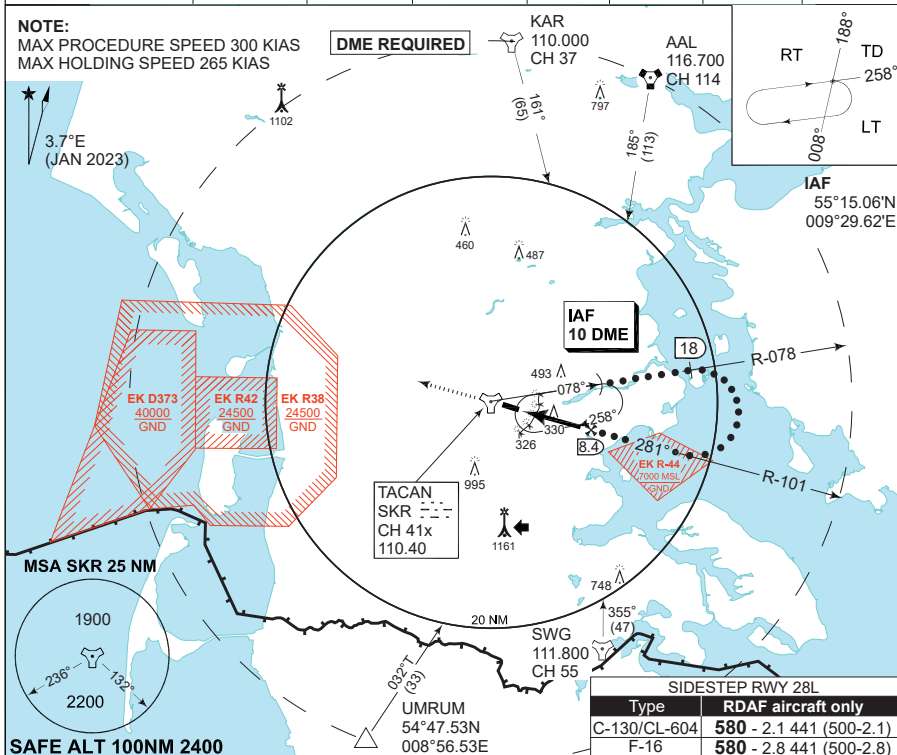
HI-TACAN RWY 28R
SKRYDSTRUP (EKSP)

AD ELEV 141

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP ATIS 133.905		SKRYDSTRUP APPROACH 315.100 124.105		SKRYDSTRUP TOWER 286.375 118.280	
TACAN SKR 110.40/CH 41x	APP COURSE 281°	FAF ALT 2000 FT	DESCENT GR 319 FT/NM	MDA 580	THR ELEV 141	ALS length 900 M	LDA 9863 FT

NOTE:
MAX PROCEDURE SPEED 300 KIAS
MAX HOLDING SPEED 265 KIAS

DME REQUIRED



IAF
55°15.06'N
009°29.62'E

SAFE ALT 100NM 2400

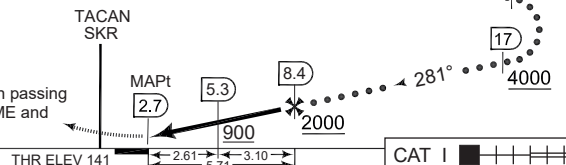
CDFA 3.0° / 5.24%					
DME SKR	4	5	6	7	8
DIST to THR	1.3	2.3	3.3	4.3	5.3
ALT	610	930	1250	1560	1880

MISSED APPROACH

Climb on track 281° to 2000 ft. Inform ATC.

Radio communication failure during Missed Approach:

Initiate climb to 2000 ft on track 281°. When passing 1000 ft turn left inbound SKR R-101/8.4 DME and hold. Squawk 7600.



MIPS	CATEGORY	C	D	E
	S-TACAN 28R	580 - 1300 439 (500-1.3/2.0)		
	CIRCLING	800 - 2.4 659 (700-2.4)	890 - 3.6 749 (800-3.6)	1490 - 3.6 1349 (1400-3.6)

HI-TACAN RWY 28R

55°13.53'N
009°15.84'E
13-10

SKRYDSTRUP (EKSP)

CHANGES: ATC, VHF FREQ.

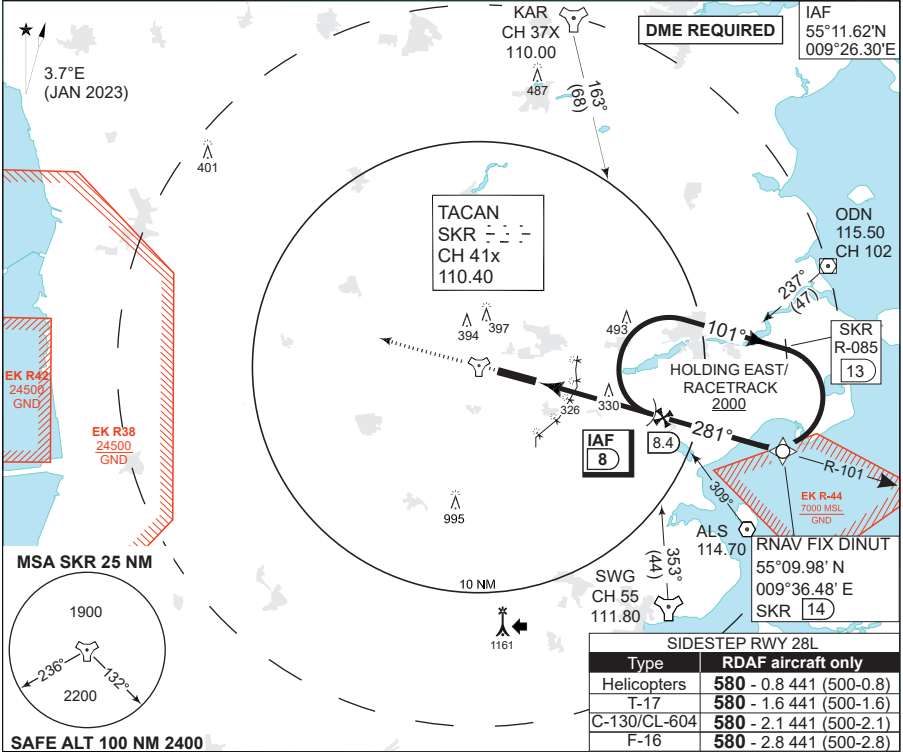
AIR COMMAND DENMARK - MIL-AIM 18 APR 2024

MIPS INSTRUMENT APPROACH CHART

TACAN RWY 28R SKRYDSTRUP (EKSP)

AD ELEV 141

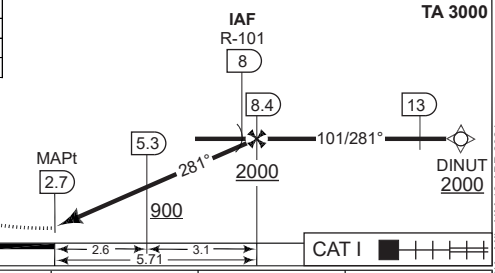
COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP ATIS 133.905		SKRYDSTRUP APPROACH 315.100 124.105		SKRYDSTRUP TOWER 286.375 118.280	
TACAN SKR 110.40/CH 41x	APP COURSE 281°	FAF ALT 2000 FT	DESCENT GR 319 FT/NM	MDA 580	THR ELEV 141	ALS length 900 M	LDA 9863 FT



	CDFA 3.0° / 5.24%				
DME SKR	4	5	6	7	8
DIST to THR	1.3	2.3	3.3	4.3	5.3
ALT	610	930	1250	1560	1880

MISSED APPROACH
Climb on track 281° to 2000 ft. Inform ATC.

Radio communication failure during Missed Approach:
Initiate climb to 2000 ft on track 281°. When passing 1000 ft turn left inbound IAF and hold. Squawk 7600.



CATEGORY	A		B		C		D		E	
	S-TACAN 28R	580 - 1300 439 (500-1.3/1.5)		580 - 1300 439 (500-1.3/1.5)		580 - 1300 439 (500-1.3/2.0)		580 - 1300 439 (500-1.3/2.0)		580 - 1300 439 (500-1.3/2.0)
CIRCLING	630	-1.5 489 (500-1.5)	700	-1.6 559 (600-1.6)	800	-2.4 659 (700-2.4)	890	-3.6 749 (800-3.6)	1490	-3.6 1349 (1400-3.6)

TACAN RWY 28R **SKRYDSTRUP (EKSP)**

55°13.53'N
009°15.84'E

13-11

CHANGES: ATC VHF FREQ.

AIR COMMAND DENMARK - MIL. AIX 18 APR 2024

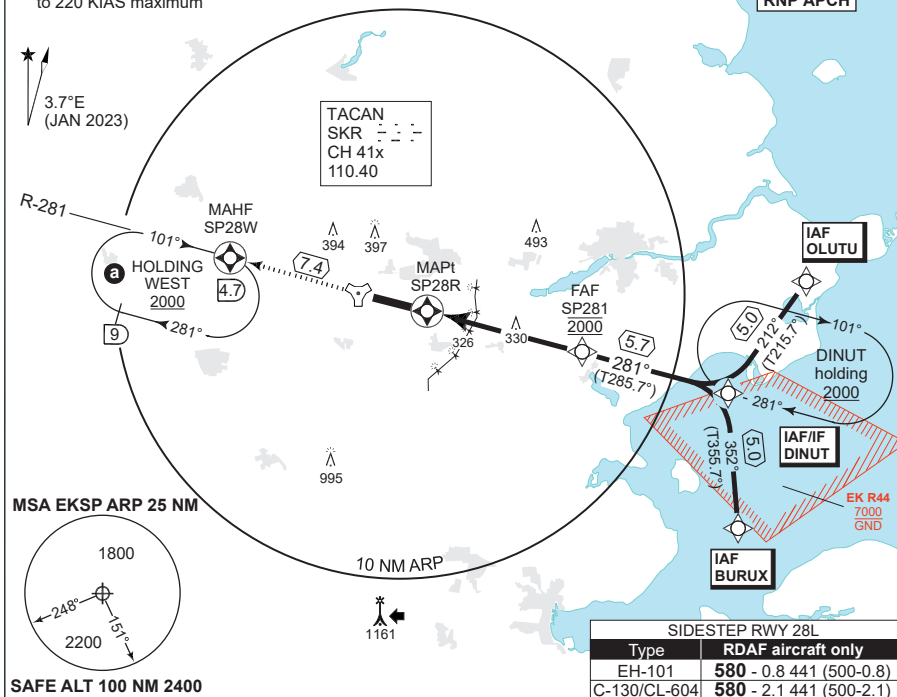
MIPS INSTRUMENT APPROACH CHART

RNP RWY 28R SKRYDSTRUP (EKSP)

AD ELEV 141

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP ATIS 133.905		SKRYDSTRUP APPROACH 315.100 124.105		SKRYDSTRUP TOWER 286.375 118.280	
TACAN SKR 110.40/CH 41x	APP COURSE 281°	FAF 2000 FT	Descent GR 3.0° (5.24%)	MDA 580	THR ELEV 141	ALS LENGTH 900 M	LDA 9863 FT

a Missed approach holding speed limited to 220 KIAS maximum

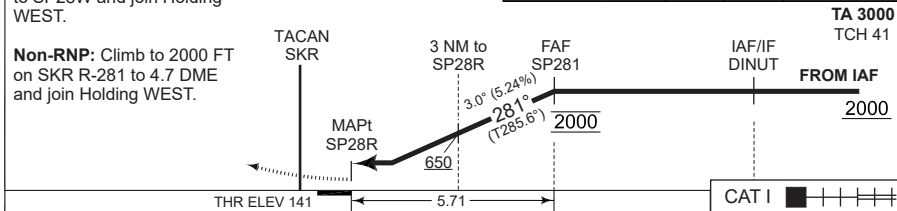


SAFE ALT 100 NM 2400

MISSED APPROACH RNP
Climb to 2000 ft on track 281° to SP28W and join Holding WEST.

Non-RNP: Climb to 2000 FT on SKR R-281 to 4.7 DME and join Holding WEST.

CDFA 3.0° / 5.24%					
DIST THR	1.25	2	3	4	5
ALTITUDE	580	820	1140	1460	1780



CATEGORY	A	B	C	D	E
LNNAV (MDA)	580 - 1300 439 (500-1.3/1.5)		580 - 1300 439 (500-1.3/2.0)		
CIRCLING	630 - 1.5 489 (500-1.5)	700 - 1.6 559 (600-1.6)	800 - 2.4 659 (700-2.4)	890 - 3.6 749 (800-3.6)	1490 - 3.6 1349 (1400-3.6)

RNP RWY 28R

55°13.53'N
009°15.84'E
13-12

SKRYDSTRUP (EKSP)

CHANGES: ATC VHF FREQ.

MIPS

AIR COMMAND DENMARK - MIL. AIM 18 APR 2024

EKSP RNP RWY 28R waypoint coordinates:

RWY 28R from BURUX (Initial LEFT) APPROACH RNP

		CODING			DISPLAY	
BURUX	IAF	55 05 00.81N	009 37 08.16E	55 05.014N	009 37.136E	
DINUT	IAF/IF	55 09 59.00N	009 36 29.00E	55 09.983N	009 36.483E	
SP281	FAF	55 11 31.71N	009 26 54.61E	55 11.529N	009 26.910E	
SP28R	MAPt	55 13 02.67N	009 17 22.11E	55 13.045N	009 17.369E	
SP28W	MAHF	55 14 59.44N	009 04 59.24E	55 14.991N	009 04.987E	

RWY 28R from OLUTU (Initial RIGHT) APPROACH RNP

		CODING			DISPLAY	
OLUTU	IAF	55 14 02.63N	009 41 35.27E	55 14.044N	009 41.588E	
DINUT	IAF/IF	55 09 59.00N	009 36 29.00E	55 09.983N	009 36.483E	
SP281	FAF	55 11 31.71N	009 26 54.61E	55 11.529N	009 26.910E	
SP28R	MAPt	55 13 02.67N	009 17 22.11E	55 13.045N	009 17.369E	
SP28W	MAHF	55 14 59.44N	009 04 59.24E	55 14.991N	009 04.987E	

Threshold coordinates RWY 28R

	CODING	DISPLAY
RWY 28R	55 13 02.67N 009 17 22.11E	55 13.045N 009 17.369E

CHANGES: PROCEDURE RENAMED RNP

AIR COMMAND DENMARK - MIL.AIM.26 JAN 2023

INTENTIONALLY

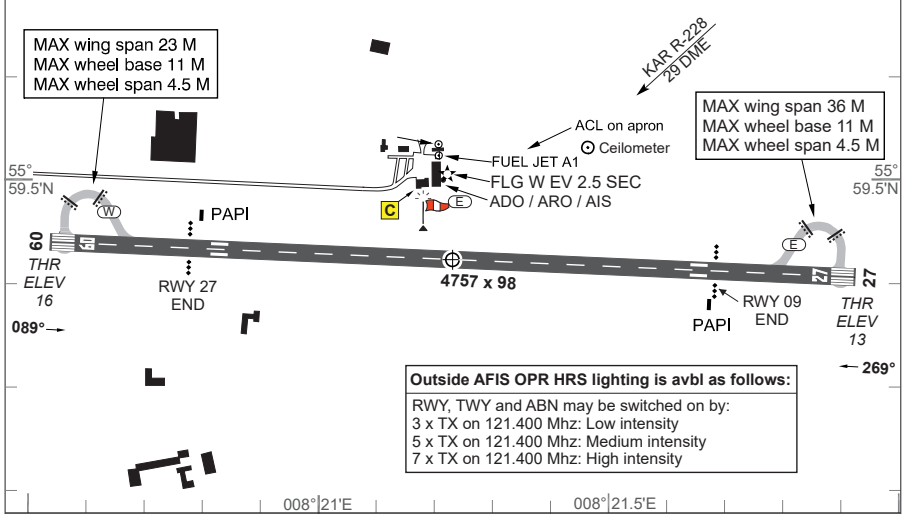
LEFT

BLANK

AERODROME CHART

STAUNING (EKVJ)

STAUNING INFORMATION 121.400		BILLUND APPROACH 127.580		Stauning Airport: +45 97 36 90 44 Briefing EKCH*: +45 32 47 82 72 Flight plan closing (ACC)*: +45 32 46 23 38 *outside AFIS hours
AD Elev 17	ARP 55°59.41'N 008°21.23'E	VAR 3.0°E (JAN 2020)		008°21.5'E



Outside AFIS OPR HRS lighting is avbl as follows:
 RWY, TWY and ABN may be switched on by:
 3 x TX on 121.400 Mhz: Low intensity
 5 x TX on 121.400 Mhz: Medium intensity
 7 x TX on 121.400 Mhz: High intensity



RWY	PCN	DECLARED DISTANCES				THR ELEV	RWY LIGHTING					THR PSN	
		TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE		END
09	21 F/A/Y/T	3933	4757	4757	3933	16	LIH	3°			LIH	LIH	55°59.42'N 008°20.54'E
27	21 F/A/Y/T	3933	4757	4757	3933	13	LIH	3°			LIH	LIH	55°59.39'N 008°21.93'E

Overflying the summer house area west of the aerodrome should be avoided in connection with TKOF and LDG. Overflying the towns within the FIZ should be avoided.

IFR Arrival
 1. Aircraft will normally be cleared by ACC KØBENHAVN to STAUNING HOLDING.
 2. Instrument approach procedures are in airspace classified G below 3500 FT MSL.
 3. Radio communication failure: Navigation aid designated for radio communication failure during IMC for arriving aircraft is NDB VJ.
Note: Circling S of AD only.

IFR Departure
 1. Standard Instrument Departures (SID) have not been established.
 2. Omnidirectional departures RWY 09/27: Climb straight ahead to at least 600 FT MSL before turn is commenced.
 3. Procedures are in airspace classified G below 3500 FT MSL.

VFR Flights
 1. VFR reporting points and VFR routes are established, see LFC 1:500 000 - Denmark.
 2. Stauning FIZ is designated as Radio Mandatory Zone (RMZ).

MIPS	CIRCLING MINIMA		
A	B	C	
720 - 2600 703 (800-2.6)	720 - 2600 703 (800-2.6)	910 - 2600 893 (900-2.6)	

CHANGES: FREQUENCY, TODA CHANGED.

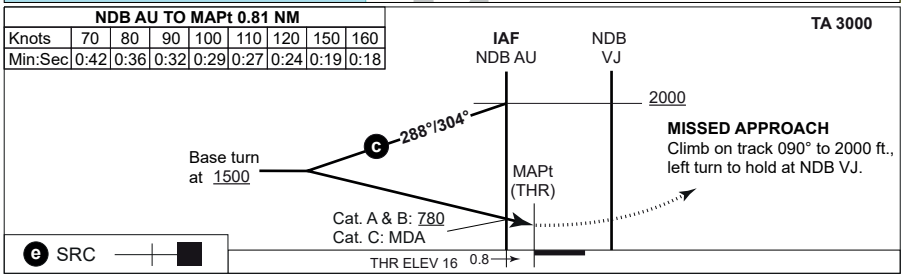
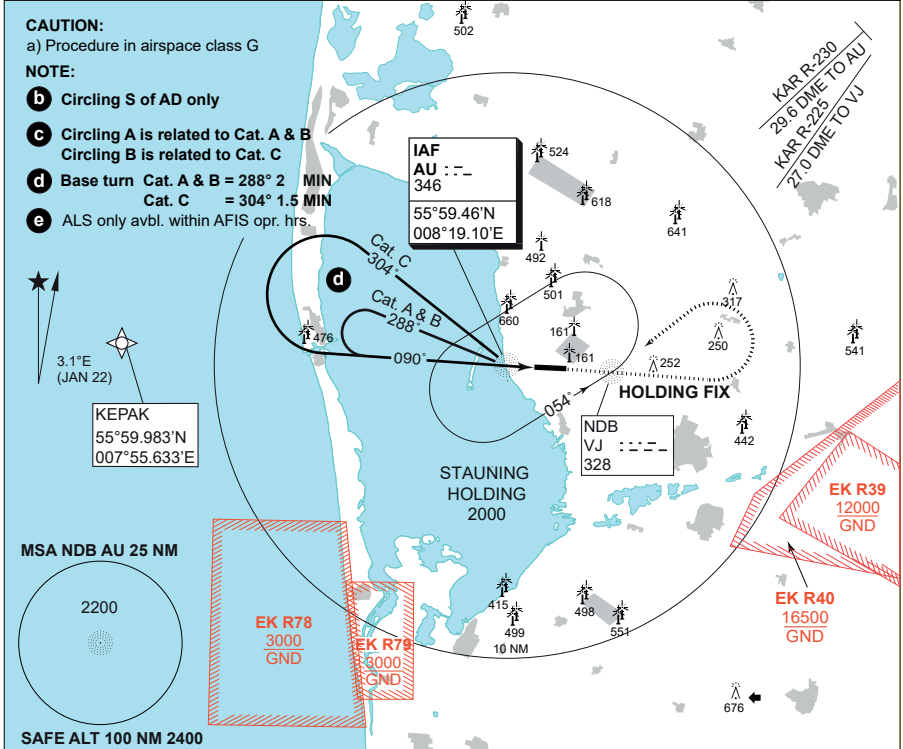
AIR COMMAND DENMARK - MIL-AIM 26 JAN 2023

MIPS
INSTRUMENT APPROACH CHART

NDB CIRCLING A & B RWY 09
STAUNING (EKVJ)

AD ELEV 17

COPENHAGEN CONTROL 362.750 136.555		BILLUND APPROACH 127.580			STAUNING INFORMATION 121.400		
NDB AU 346	APP COURSE 090°	FAF ALT NO FAF	DESCENT GR N/A	MDA 720	THR ELEV 16	ALS LENGTH 420 M	LDA 3933 FT



CATEGORY	A	B	C
CIRCLING b	720 - 1500 703 (800-1.5)	720 - 1600 703 (800-1.6)	910 - 2600 893 (900-2.6)

NDB CIRCLING A & B RWY 09

55°59.41'N
008°21.23'E

STAUNING (EKVJ)

CHANGES: CALLSIGN

MIPS

AIR COMMAND DENMARK - MIL AIM 18 MAY 2023

MIPS
INSTRUMENT APPROACH CHART

LOC RWY 27
STAUNING (EKVJ)

AD ELEV 17

COPENHAGEN CONTROL 362.750 136.555		BILLUND APPROACH 127.580			STAUNING INFORMATION 121.400		
LOC SVJ 110.10	APP COURSE 269°	FAF ALT 720 FT	DESCENT GR 329 FT / NM	MDA 720	THR ELEV 13	ALS LENGTH 900 M	LDA 3933 FT

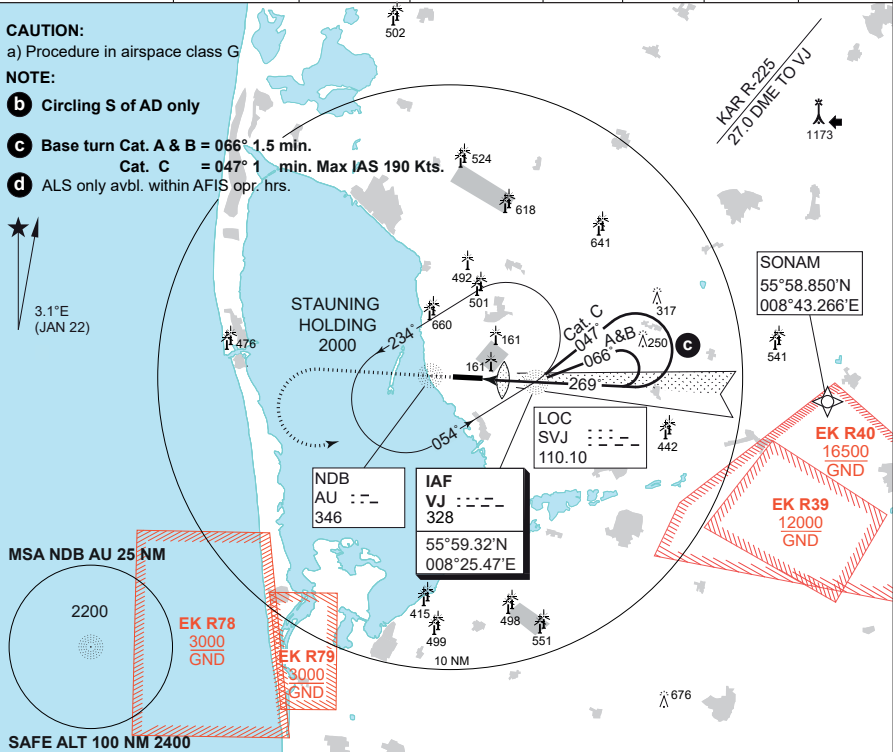
CAUTION:

a) Procedure in airspace class G

NOTE:

- (b)** Circling S of AD only
- (c)** Base turn Cat. A & B = 066° 1.5 min.
Cat. C = 047° 1 min. Max IAS 190 Kts.
- (d)** ALS only avbl. within AFIS opr. hrs.

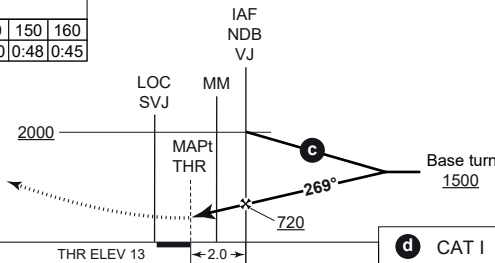
3.1°E
(JAN 22)



NDB VJ TO MAPt 1.99 NM								
Knots	70	80	90	100	110	120	150	160
Min:Sec	1:42	1:30	1:20	1:12	1:05	1:00	0:48	0:45

TA 3000

MISSED APPROACH
Climb on track 269° to 2000 ft.
Left turn to hold at NDB VJ.



(d) CAT I

CHANGES: CALLSIGN

CATEGORY	A	B	C
S-LOC 27	720 - 2600 707 (800-2.6/3.3)		
CIRCLING (b)	720 - 2600 703 (800-2.6)	720 - 2600 703 (800-2.6)	910 - 2600 893 (900-2.6)

LOC RWY 27

55°59.41'N
008°21.23'E

STAUNING (EKVJ)

AIR COMMAND DENMARK - MIL-AIM 18 MAY 2023

MIPS INSTRUMENT APPROACH CHART

NDB RWY 27 STAUNING (EKVJ)

AD ELEV 17

COPENHAGEN CONTROL 362.750 136.555		BILLUND APPROACH 127.580			STAUNING INFORMATION 121.400		
NDB VJ 328	APP COURSE 269°	FAF ALT 720 FT	DESCENT GR 329 FT/NM	MDA 720	THR ELEV 13	ALS LENGTH 900 M	LDA 3933 FT

CAUTION:

a) Procedure in airspace class G

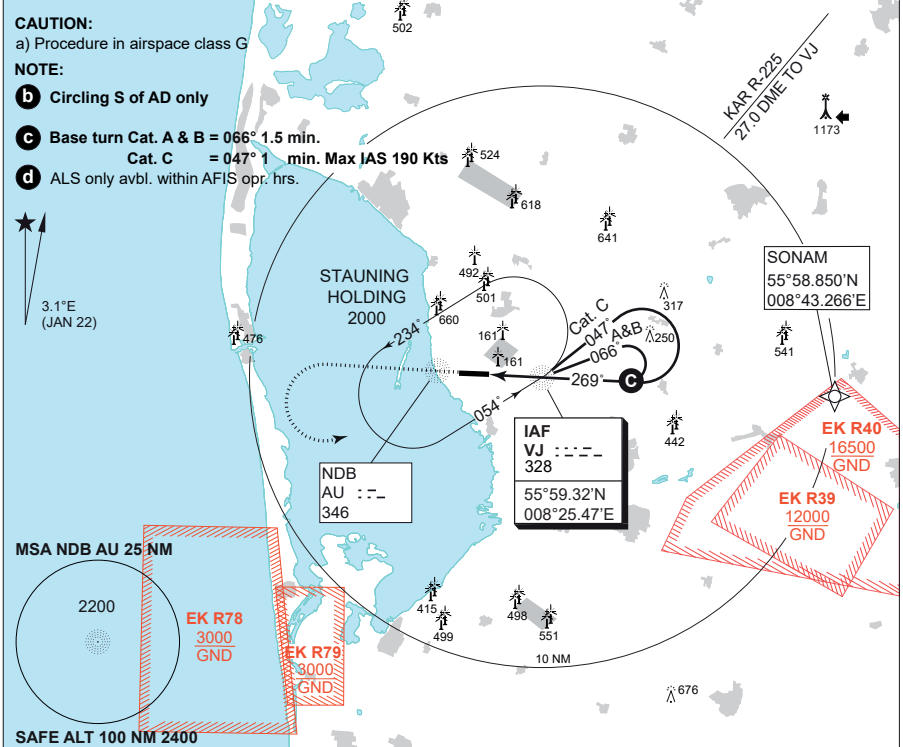
NOTE:

b Circling S of AD only

c Base turn Cat. A & B = 066° 1.5 min.

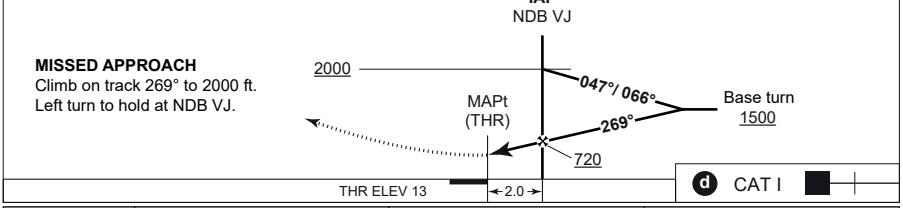
Cat. C = 047° 1 min. Max IAS 190 Kts

d ALS only avbl. within AFIS opr. hrs.



SAFE ALT 100 NM 2400

NDB VJ TO MAPt 1.99 NM							TA 3000	
Knots	70	80	90	100	110	120	150	160
Min:Sec	1:42	1:30	1:20	1:12	1:05	1:00	0:48	0:45



CATEGORY	A	B	C
S-NDB 27	720 - 2600 707 (800-2.6/3.3)		
CIRCLING b	720 - 2600 703 (800-2.6)	720 - 2600 703 (800-2.6)	910 - 2600 893 (900-2.6)

NDB RWY 27 55°59.41'N
008°21.23'E **STAUNING (EKVJ)**

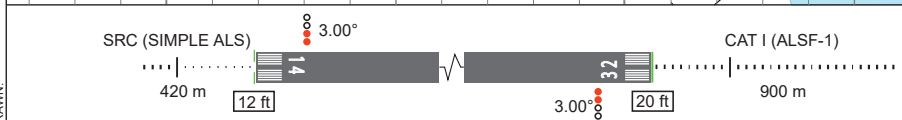
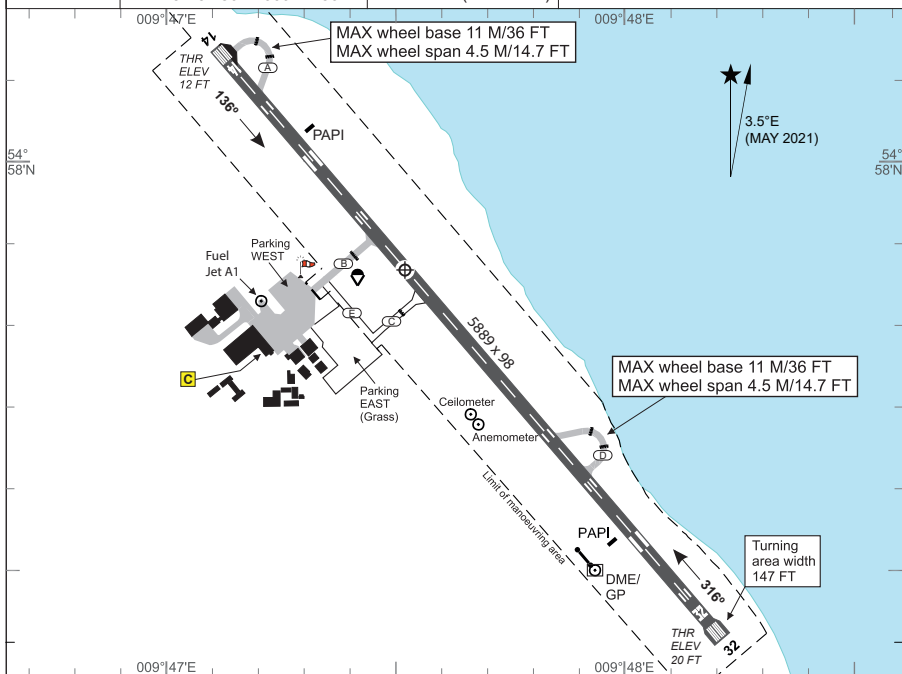
CHANGES: CALLSIGN MIPS

AIR COMMAND DENMARK - MIL/AM 18 MAY 2023

AERODROME CHART

SOENDERBORG (EKSB)

SØNDERBORG INFORMATION 126.400		SKRYDSTRUP APPROACH 315.100 / 124.105		Sønderborg AFIS: +45 73 42 21 70 AD PPR outside operational hours.
AD Elev 24	ARP 54°57.86'N 009°47.50'E	VAR 3.5°E (MAY 2021)		



RWY	PCN	DECLARED DISTANCES				THR ELEV	RWY LIGHTING				THR PSN			
		PSN	TORA	TODA	ASDA		LDA	THR	PAPI	TDZ		CL	EDGE	END
14	40 F/A/W/T		5889	5889	5889	5889	12	LIH	3°			LIH	LIH	54°58.14'N 009°47.10'E
32			5889	5889	5889	5889	20	LIH	3°			LIH	LIH	54°57.40'N 009°48.19'E

Traffic circuits NE of AD only. Parachuting may take place.

IFR Arrival
 1. Aircraft will normally be cleared by ACC KØBENHAVN to LIBRI HOLDING.
 2. Fix designated for radio communication failure during IMC for arriving aircraft is LIBRI.

IFR Departure
 1. Standard Instrument Departures (SID) have not been established.
 2. Omnidirectional departures RWY 14/32: Climb to at least 500 FT before turn is commenced.

MIPS	CIRCLING MINIMA (East of AD only)		
	A	B	C
480 - 1500 456 (500-1.5)	530 - 1600 509 (600-1.6)	690 - 2400 669 (700-2.4)	

AERODROME CHART

SOENDERBORG (EKSB)

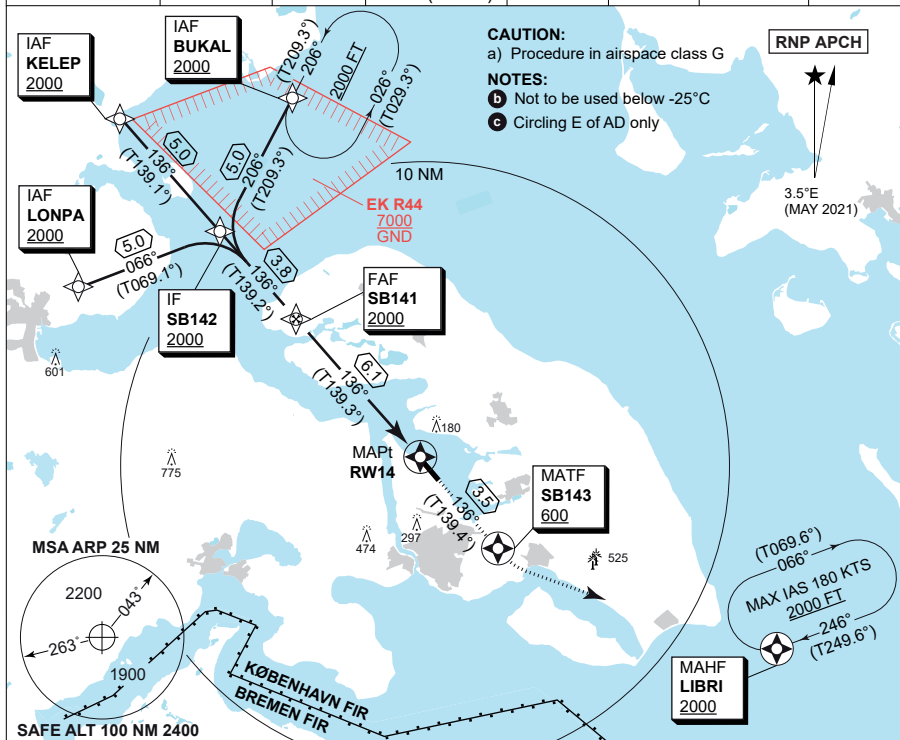
CHANGES: SKP APP FREQ AND DECLARED DISTANCES CHG. ABN WITHDRAWN.

AIR COMMAND DENMARK - MIL AIRM 18 APR 2024

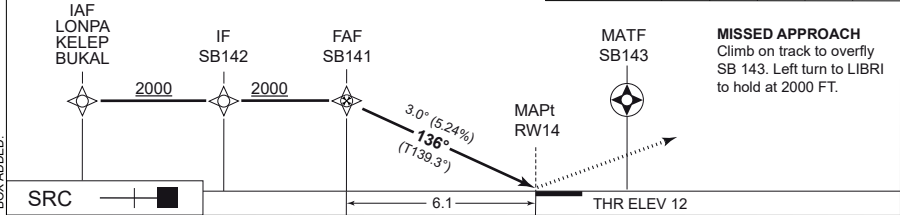
MIPS INSTRUMENT APPROACH CHART

RNP RWY 14 SOENDERBORG (EKSB)

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP APPROACH 315.100 124.105		SOENDERBORG INFORMATION 126.400		
EGNOS CHANNEL 46181 / E14A	APP COURSE 136°	FAF ALT 2000 FT	DESCENT GR. 3.0° (5.24%)	MINIMA See CAT	THR ELEV 12	ALS LENGTH 420 M
				LDA 5889 FT		



TA 3000	CDFA 3.00° / 5.24%					
GS 3.0°	Dist to RW14	5	4	3	2	1
RDH 50	ALT	1660	1340	1020	700	380



CATEGORY	A	B	C
LPV (DA)	262 - 600 250 (300-0.8/1.3)		
LNAV/VNAV (DA) b	262 - 600 250 (300-0.8/1.3)		
LNAV (MDA)	400 - 1400 388 (400-1.4/1.8)		
CIRCLING c	480 - 1500 456 (500-1.5)	530 - 1600 509 (600-1.6)	690 - 2400 669 (700-2.4)

RNP RWY 14

54°57.86'N
009°47.50'E
15-2

SOENDERBORG (EKSB)

CHANGES: RNP APCH-TEXT BOX ADDED.

AIR COMMAND DENMARK - MIL AIM 13 JUN 2024

EKSB RNP RWY 14 waypoint coordinates:

RWY 14 from BUKAL (Initial LEFT) APPROACH RNP

		CODING				DISPLAY	
BUKAL	IAF	55 09	57.02N	009 40	12.97E	55 09.950N	009 40.216E
SB142	IF	55 05	34.57N	009 35	56.68E	55 05.576N	009 35.945E
SB141	FAF	55 02	44.54N	009 40	12.05E	55 02.742N	009 40.201E
RW14	MAPt	54 58	08.22N	009 47	05.60E	54 58.137N	009 47.093E
SB143	MATF	54 55	29.87N	009 51	01.63E	54 55.498N	009 51.027E
LIBRI	MAHF	54 51	41.63N	010 07	24.19E	54 51.694N	010 07.403E

RWY 14 from LONPA (Initial RIGHT) APPROACH RNP

		CODING				DISPLAY	
LONPA	IAF	55 03	47.50N	009 27	46.83E	55 03.792N	009 27.781E
SB142	IF	55 05	34.57N	009 35	56.68E	55 05.576N	009 35.945E
SB141	FAF	55 02	44.54N	009 40	12.05E	55 02.742N	009 40.201E
RW14	MAPt	54 58	08.22N	009 47	05.60E	54 58.137N	009 47.093E
SB143	MATF	54 55	29.87N	009 51	01.63E	54 55.498N	009 51.027E
LIBRI	MAHF	54 51	41.63N	010 07	24.19E	54 51.694N	010 07.403E

RWY 14 from KELEP (Initial CENTER) APPROACH RNP

		CODING				DISPLAY	
KELEP	IAF	55 09	22.09N	009 30	13.49E	55 09.368N	009 30.225E
SB142	IF	55 05	34.57N	009 35	56.68E	55 05.576N	009 35.945E
SB141	FAF	55 02	44.54N	009 40	12.05E	55 02.742N	009 40.201E
RW14	MAPt	54 58	08.22N	009 47	05.60E	54 58.137N	009 47.093E
SB143	MATF	54 55	29.87N	009 51	01.63E	54 55.498N	009 51.027E
LIBRI	MAHF	54 51	41.63N	010 07	24.19E	54 51.694N	010 07.403E

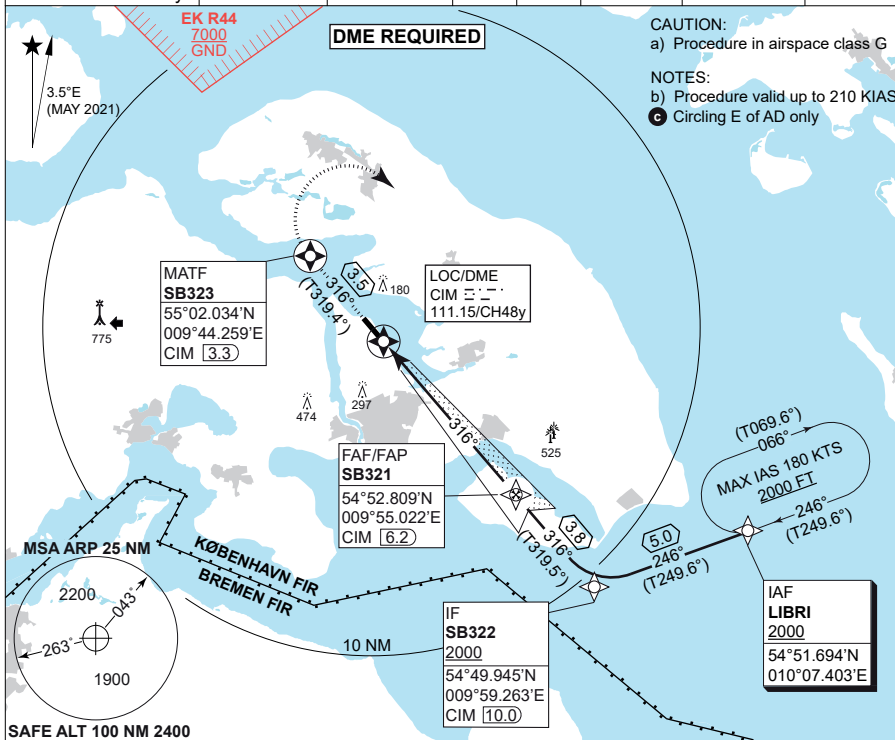
Threshold coordinates RWY 14

		CODING				DISPLAY	
RW14		54 58	08.22N	009 47	05.60E	54 58.137N	009 47.093E

MIPS INSTRUMENT APPROACH CHART

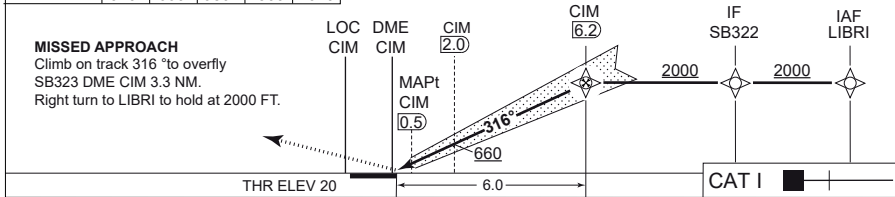
ILS or LOC RWY 32 SOENDERBORG (EKSB)

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP APPROACH 315.100 124.105			SOENDERBORG INFORMATION 126.400		
LOC / DME CIM 111.15/CH 48y	APP COURSE 316°	GS INTCP ALT 2000 FT	GS 3.00°	DA 220	THR ELEV 20	ALS LENGTH 900 M	LDA 5889 FT



LOC ONLY: CDFA 3.00° / 5.24%					
DME CIM	1	2	3	4	5
DIST THR	0.8	1.8	2.8	3.8	4.8
ALT	340	660	980	1300	1620

TA 3000
GS 3.0°
RDH 52



CATEGORY	A		B		C	
	S-ILS 32	220 - 550 200 (200-0.8/1.2)				
S-LOC 32	280 - 800 259 (300-0.8/1.3)					
CIRCLING c	480 - 1500 456 (500-1.5)	530 - 1600 509 (600-1.6)	690 - 2400 669 (700-2.4)			

ILS or LOC RWY 32

SOENDERBORG (EKSB)

54°57.86'N
009°47.50'E
15-4

CHANGES, SKP APP, FREQ

AIR COMMAND DENMARK - MIL AIN 18 APR 2024

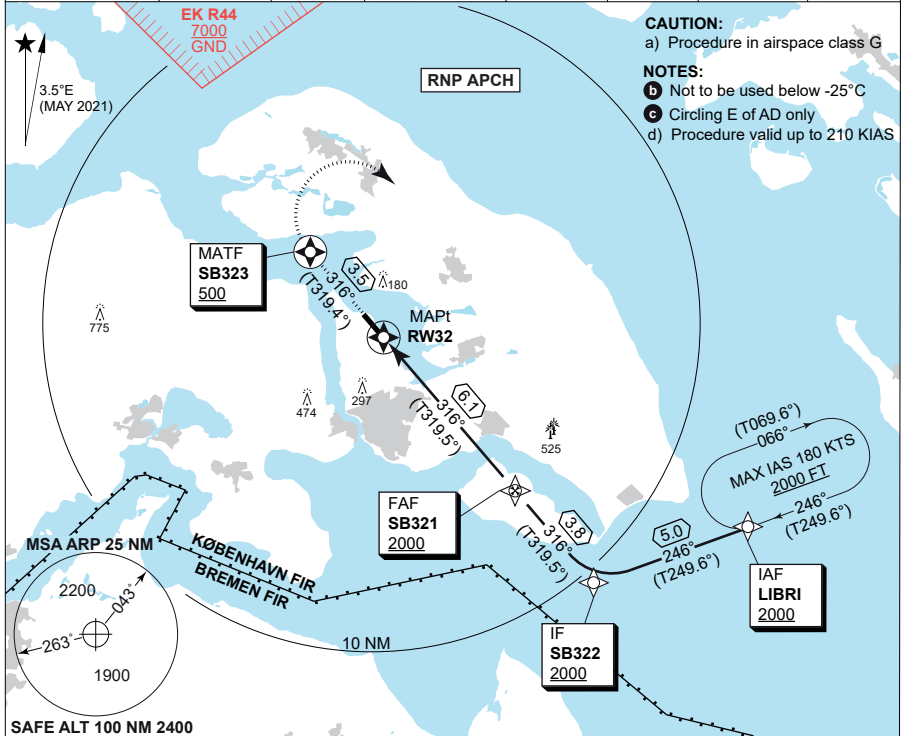
MIPS

INSTRUMENT APPROACH CHART

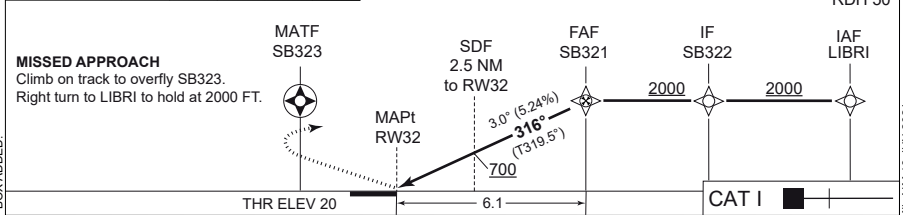
AD ELEV 24

**RNP RWY 32
SOENDERBORG (EKSB)**

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP APPROACH 315.100 124.105		SOENDERBORG INFORMATION 126.400		
EGNOS CHANNEL 48475 / E32A	APP COURSE 316°	FAF ALT 2000 FT	DESCENT GR. 3.00° (5.24%)	MINIMA See CAT	THR ELEV 20	ALS LENGTH 900 M
		LDA 5889 FT				



CDFA 3.00° / 5.24%					TA 3000 GS 3.0° RDH 50
Dist to RW32	1	2	3	4	
ALT	390	710	1030	1350	1670



CATEGORY	A	B	C
LPV (DA)	270 - 600 250 (300-0.8/1.3)		
LNAV/VNAV (DA) b	270 - 600 250 (300-0.8/1.3)		
LNAV (MDA)	360 - 800 339 (400-0.8/1.5)		
CIRCLING c	480 - 1500 456 (500-1.5)	530 - 1600 509 (600-1.6)	690 - 2400 669 (700-2.4)

RNP RWY 32

54°57.86'N
009°47.50'E
15-5

SOENDERBORG (EKSB)

EKSB

CHANGES: RNP APCH-TEXT BOX ADDED.

AIR COMMAND DENMARK - MIL AWM 13 JUN 2024

EKSB RNP RWY 32 waypoint coordinates:**RWY 32 from LIBRI (Initial RIGHT) APPROACH RNP**

		CODING				DISPLAY	
LIBRI	IAF	54 51 41.63N	010 07 24.19E		54 51.694N	010 07.403E	
SB322	IF	54 49 56.67N	009 59 15.77E		54 49.945N	009 59.263E	
SB321	FAF	54 52 48.55N	009 55 01.34E		54 52.809N	009 55.022E	
RW32	MAPt	54 57 24.14N	009 48 11.37E		54 57.402N	009 48.190E	
SB323	MATF	55 00 02.01N	009 44 15.56E		55 00.034N	009 44.259E	

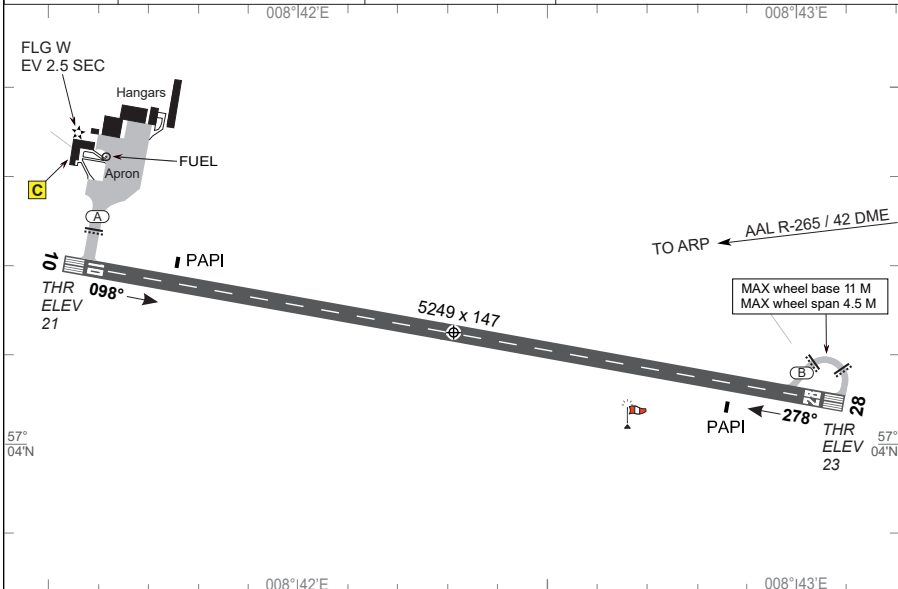
Threshold coordinates RWY 32

		CODING		DISPLAY	
RW32		54 57 24.14N	009 48 11.37E	54 57.402N	009 48.190E

AERODROME CHART

THISTED (EKTS)

THISTED RADIO 118.125		AALBORG APPROACH 123.975		Thisted Airport: +45 99 17 37 80
AD Elev 23		ARP 57°04.13'N 008°42.31'E		Briefing EKCH*: +45 32 47 82 72
		VAR 2.4°E (JAN 2018)		Flight plan closing (ACC)*: +45 32 46 23 38
				*outside AD hours



RWY	PCN	DECLARED DISTANCES				TDZE	RWY LIGHTING					THR PSN	
		TORA	TODA	ASDA	LDA		THR	PAPI	TDZ	CL	EDGE		END
10	25 F/A/X/T	5249	5249	5249	5249	21	LIH				LIH	LIH	57°04.21'N 008°41.53'E
28	25 F/A/X/T	5249	5249	5249	5249	23	LIH				LIH	LIH	57°04.05'N 008°43.10'E

AD approved for:
 a. VMC day and VFR night operations.
 b. Self-service when ADO is closed.
 Outside ADO/ARO hours: PPR for AD/ADO submitted to ADO not later than 1 hour before termination of service.

Refuelling (100LL and Jet A1) only within AD hours.

CAUTION: Various wind farms in closer and more distant vicinity of AD. Exceptionally high wind turbines (1000 ft AMSL) 5.6 NM east of AD.

CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL-AIM 24 FEB 2022

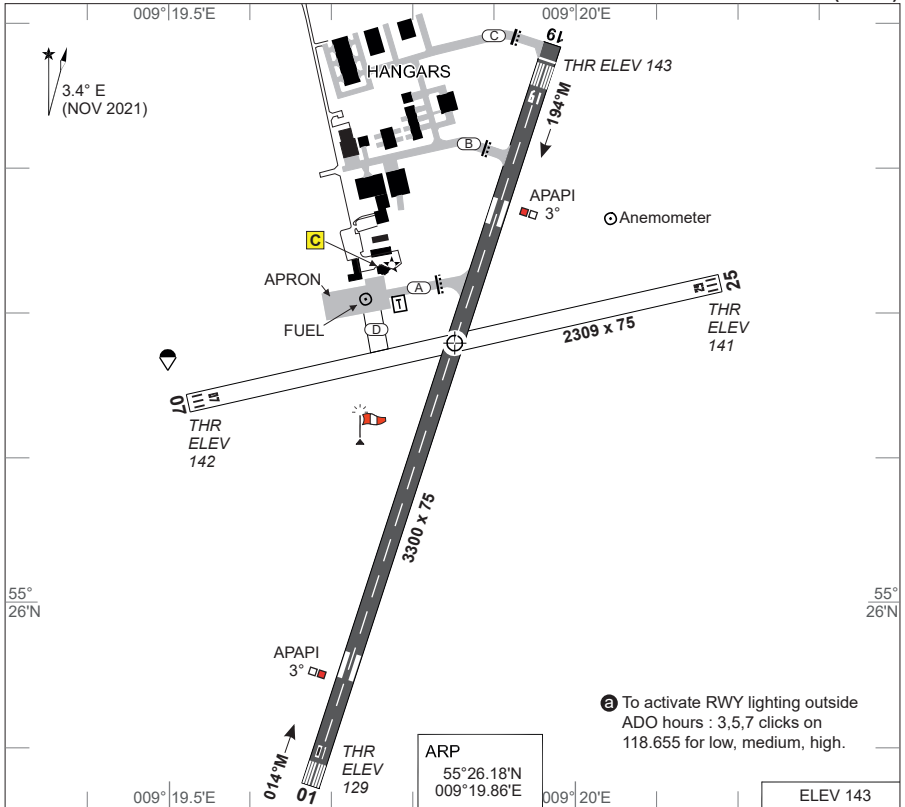
INTENTIONALLY

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AERODROME CHART

VAMDRUP (EKVD)



a To activate RWY lighting outside ADO hours : 3,5,7 clicks on 118.655 for low, medium, high.

ARP
55°26.18'N
009°19.86'E
ELEV 143

RWY	PCN	DECLARED DISTANCES						RWY LIGHTING a					THR PSN	
		PSN	TORA	TODA	ASDA	LDA	TDZE	THR	APAPI	TDZ	CL	EDGE		END
01	17 F/B/X/T		3202	3300	3202	3300	129	LIH	3°			LIH	LIH	55°25.87'N 009°19.68'E
19		B	3300	3300	3300	3202	143	LIH	3°			LIH	LIH	55°26.37'N 009°19.96'E
		A	2267	2267	2267									

VAMDRUP INFORMATION 118.655 SKRYDSTRUP APPROACH 124.105

- 1. IFR Arrival**
- 1.1 Aircraft will normally be cleared by ACC KØBENHAVN to L KD (KD HOLDING NORTH or KD HOLDING SOUTH). Instrument approach procedures are partly in airspace classified G below 3500 FT MSL.
 - 1.2 Navigation aid designated for radio communication failure during IMC for arriving aircraft is L KD.
- 2. IFR Departure**
- 2.1 Standard Instrument Departures (SID) have not been established.
 - 2.2 Omnidirectional departures: RWY 01/19: Climb straight ahead to at least 800 FT MSL before turn is commenced.
 - 2.3 Caution: Procedures are partly in airspace classified G below 3500 FT MSL.
- 3. Additional Information**
- 3.1 In the period 2100-0600 (2000-0500) the airport is closed for all traffic. Commercial operations may take place - after request to ADO 1 HR PN before closing time. No IFR traffic is permitted when AFIS is not established.
 - 3.2 PPR for use of RWY 08/26. Runway will be closed outside service hours.
 - 3.3 Noise abatement: Overflying the built-up areas Hjarup, Skanderup and Vamdrup during TKOF and LDG should be avoided as far as possible.

CHANGES: SKP APP FREQ CHG.

AIR COMMAND DENMARK - MIL AIM 18 APR 2024

AERODROME CHART

VAMDRUP (EKVD)



MIPS INSTRUMENT APPROACH CHART

AD ELEV 143

NDB RWY 01 VAMDRUP (EKVD)

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP APPROACH 315.100 124.105			VAMDRUP INFORMATION 118.655		
NDB KD 357	TACAN 110.40/CH 41x	APP COURSE 014°	FAF ALT 1500	DESCENT GR 318 FT/NM	MDA 710	THR ELEV 129	LDA 3300 FT

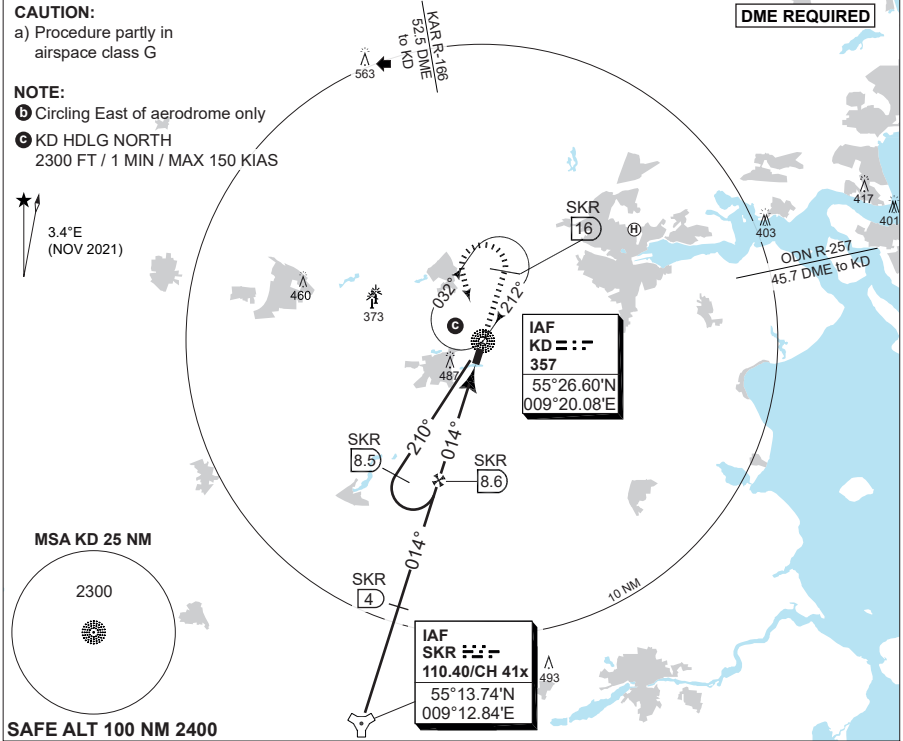
CAUTION:

a) Procedure partly in airspace class G

NOTE:

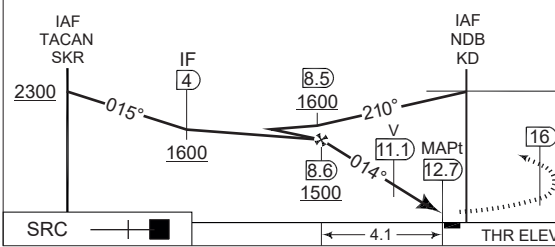
- b) Circling East of aerodrome only
- c) KD HDLG NORTH
2300 FT / 1 MIN / MAX 150 KIAS

DME REQUIRED



SAFE ALT 100 NM 2400

TA 3000



	CDFA 3.0° / 5.2%			
DME SKR	8.6	9.6	10.6	11.1
DIST to THR	4.2	3.2	2.2	1.7
ALT	1500	1190	870	710

MISSED APPROACH
Climb straight ahead to SKR DME 16 NM then left turn to join KD HOLDING NORTH

CATEGORY A B

S-NDB 01	710 - 1.5 581 (600-1.5/2.7)	
CIRCLING b	710 - 1.5 567 (600-1.5)	710 - 1.6 567 (600-1.6)

NDB RWY 01 55°26.18'N
009°19.86'E **VAMDRUP (EKVD)**

CHANGES, SKP APP FREQ, CHG.

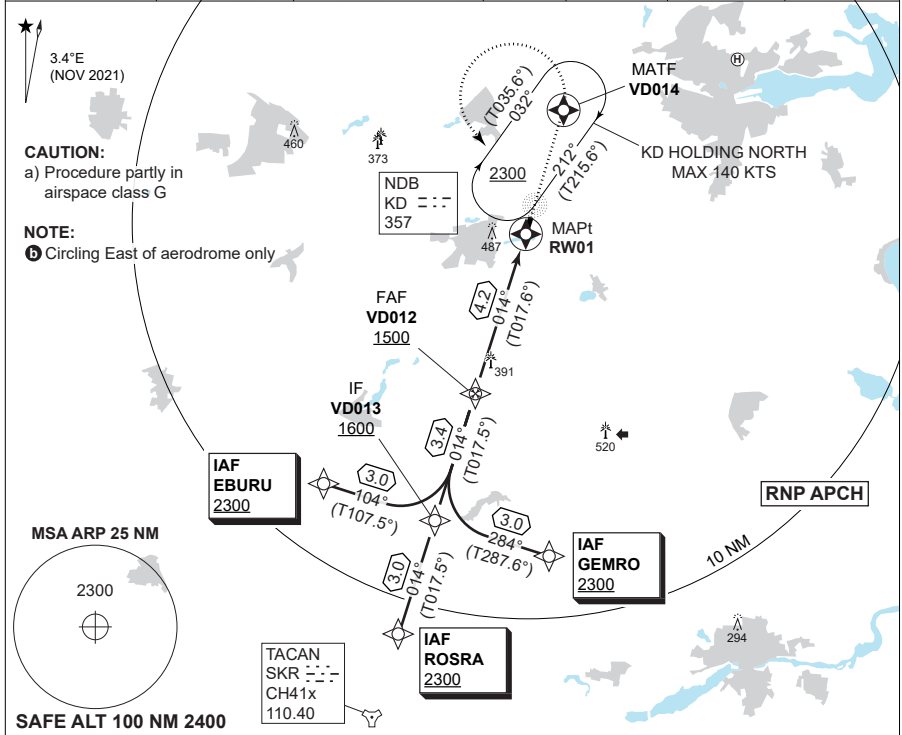
AIR COMMAND DENMARK - MIL_AIM 18 APR 2024

MIPS
INSTRUMENT APPROACH CHART

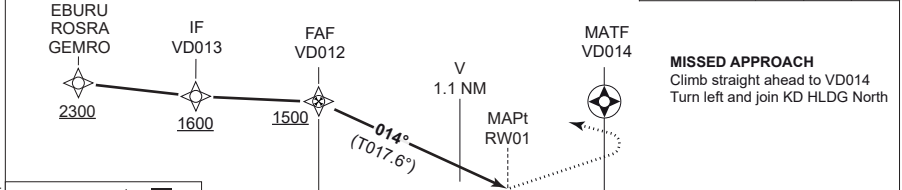
RNP RWY 01
VAMDRUP (EKVD)

AD ELEV 143

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP APPROACH 315.100 124.105		VAMDRUP INFORMATION 118.655		
APP COURSE 014°	FAF ALT 1500 FT	DESCENT GR. 3.00° (5.24%)	MDA 560	THR ELEV 129	ALS LENGTH 420 M	LDA 3300 FT



TA 3000	CDFA 3.00° / 5.24%			
	Dist to RW01	4	3	2
	ALT	1460	1140	820



SRC	4.2	THR ELEV 129
-----	-----	--------------

CATEGORY	A	B
LNAV	560 - 1.5 431 (500-1.5/2.0)	
CIRCLING b	590 - 1.5 447 (500-1.5)	690 - 1.6 547 (600-1.6)

RNP RWY 01 55°26.18'N
009°19.86'E
17-3 **VAMDRUP (EKVD)**

EKVD

CHANGES: SKP APP FREQ CHG.

AIR COMMAND DENMARK - MIL AIM 18 APR 2024

EKVD RNAV (GNSS) RWY 01 waypoint coordinates:

RWY 01 from EBURU (Initial LEFT) APPROACH RNAV (GNSS)

		CODING			DISPLAY		
EBURU	IAF	55 19 34.77N	009 10 41.05E	55 19.580N	009 10.684E		
VD013	IF	55 18 40.79N	009 15 41.46E	55 18.680N	009 15.691E		
VD012	FAF	55 21 55.03N	009 17 29.15E	55 21.917N	009 17.486E		
RW01	MAPt	55 25 52.07N	009 19 40.99E	55 25.868N	009 19.683E		
VD014	MATF	55 28 57.00N	009 21 24.19E	55 28.950N	009 21.403E		
KD	MAHF	55 26 35.87N	009 20 05.42E	55 26.598N	009 20.090E		

RWY 01 from ROSRA (Initial STRAIGHT) APPROACH RNAV (GNSS)

		CODING			DISPLAY		
ROSRA	IAF	55 15 49.39N	009 14 06.68E	55 15.823N	009 14.111E		
VD013	IF	55 18 40.79N	009 15 41.46E	55 18.680N	009 15.691E		
VD012	FAF	55 21 55.03N	009 17 29.15E	55 21.917N	009 17.486E		
RW01	MAPt	55 25 52.07N	009 19 40.99E	55 25.868N	009 19.683E		
VD014	MATF	55 28 57.00N	009 21 24.19E	55 28.950N	009 21.403E		
KD	MAHF	55 26 35.87N	009 20 05.42E	55 26.598N	009 20.090E		

RWY 01 from GEMRO (Initial RIGHT) APPROACH RNAV (GNSS)

		CODING			DISPLAY		
GEMRO	IAF	55 17 46.53N	009 20 42.04E	55 17.776N	009 20.701E		
VD013	IF	55 18 40.79N	009 15 41.46E	55 18.680N	009 15.691E		
VD012	FAF	55 21 55.03N	009 17 29.15E	55 21.917N	009 17.486E		
RW01	MAPt	55 25 52.07N	009 19 40.99E	55 25.868N	009 19.683E		
VD014	MATF	55 28 57.00N	009 21 24.19E	55 28.950N	009 21.403E		
KD	MAHF	55 26 35.87N	009 20 05.42E	55 26.598N	009 20.090E		

Threshold coordinates RWY 01

		CODING			DISPLAY		
RWY 01		55 25 52.07N	009 19 40.99E	55 25.868N	009 19.683E		

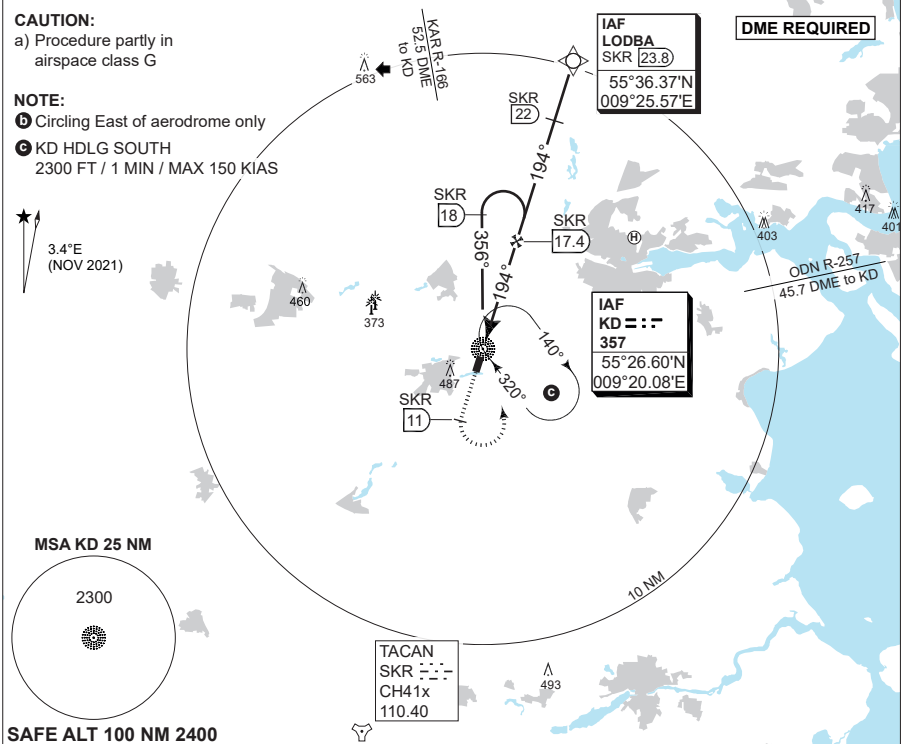
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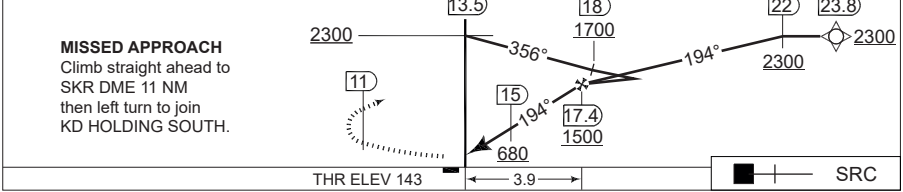
MIPS INSTRUMENT APPROACH CHART

NDB RWY 19 VAMDRUP (EKVD)

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP APPROACH 315.100 124.105		VAMDRUP INFORMATION 118.655				
NDB KD 357	TACAN 110.40/CH 41x	APP COURSE 194°	FAF ALT 1500	DESCENT GR 318 FT/NM	MDA 530	THR ELEV 143	ALS LENGTH 420 M	LDA 3202 FT



CDFA 3.0° / 5.2%				TA 3000	
DME SKR	14.4	15.4	16.4		17.4
DIST to THR	1.1	2.1	3.1		4.1
ALT	550	870	1190	1500	



CATEGORY	A	B
MIPS S-NDB/DME 19	530 - 1.4 387 (400-1.4/1.8)	
CIRCLING b	590 - 1.5 447 (500-1.5)	690 - 1.6 547 (600-1.6)

NDB RWY 19 55°26.18'N 009°19.86'E **VAMDRUP (EKVD)**

CHANGES: SKP APP FREQ CHG.

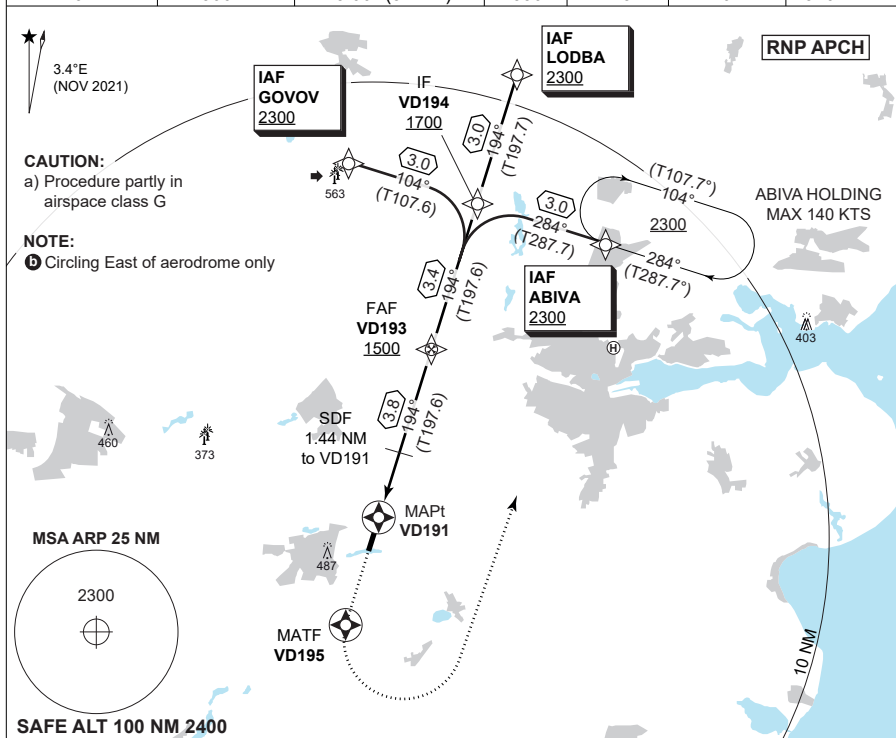
AIR COMMAND DENMARK - MIL AIM 18 APR 2024

MIPS INSTRUMENT APPROACH CHART

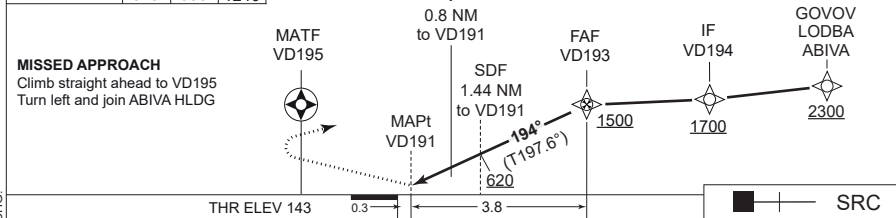
RNP RWY 19 VAMDRUP (EKVD)

AD ELEV 143

COPENHAGEN CONTROL 360.100 133.155		SKRYDSTRUP APPROACH 315.100 124.105		VAMDRUP INFORMATION 118.655		
APP COURSE 194°	FAF ALT 1500 FT	DESCENT GR. 3.00° (5.24%)	MDA 530	THR ELEV 143	ALS LENGTH 420 M	LDA 3202 FT



CDFA 3.00° / 5.24%				TA 3000
Dist to VD191	1	2	3	
ALT	610	930	1240	



CATEGORY	A	B
LNAV	530 - 1.4 387 (400-1.4/1.8)	
CIRCLING b	590 - 1.5 447 (500-1.5)	690 - 1.6 547 (600-1.6)

RNP RWY 19

55°26.18'N
009°19.86'E

VAMDRUP (EKVD)

EKVD RNAV (GNSS) RWY 01 waypoint coordinates:

RWY 19 from ABIVA (Initial LEFT) APPROACH RNAV (GNSS)

		CODING			DISPLAY	
ABIVA	IAF	55 32	36.25N	009 28	59.46E	55 32.604N 009 28.991E
VD194	IF	55 33	30.80N	009 23	57.39E	55 33.513N 009 12.957E
VD193	FAF	55 30	16.67N	009 22	08.66E	55 30.278N 009 22.144E
VD191	MAPt	55 26	38.63N	009 20	06.95E	55 26.644N 009 20.116E
VD195	MATF	55 24	11.45N	009 18	44.96E	55 24.191N 009 18.749E

RWY 19 from LODBA (Initial STRAIGHT) APPROACH RNAV (GNSS)

		CODING			DISPLAY	
LODBA	IAF	55 36	22.06N	009 25	33.61E	55 36.368N 009 25.560E
VD194	IF	55 33	30.80N	009 23	57.39E	55 33.513N 009 12.957E
VD193	FAF	55 30	16.67N	009 22	08.66E	55 30.278N 009 22.144E
VD191	MAPt	55 26	38.63N	009 20	06.95E	55 26.644N 009 20.116E
VD195	MATF	55 24	11.45N	009 18	44.96E	55 24.191N 009 18.749E

RWY 19 from GOVOV (Initial RIGHT) APPROACH RNAV (GNSS)

		CODING			DISPLAY	
GOVOV	IAF	55 34	25.20N	009 18	54.90E	55 34.420N 009 18.915E
VD194	IF	55 33	30.80N	009 23	57.39E	55 33.513N 009 12.957E
VD193	FAF	55 30	16.67N	009 22	08.66E	55 30.278N 009 22.144E
VD191	MAPt	55 26	38.63N	009 20	06.95E	55 26.644N 009 20.116E
VD195	MATF	55 24	11.45N	009 18	44.96E	55 24.191N 009 18.749E

Threshold coordinates RWY 19

		CODING			DISPLAY	
RWY 19		55 26	22.16N	009 19	57.76E	55 26.369N 009 19.963E

CHANGES: PAGE ADDED.

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MISCELLANEOUS

TRANSITION FROM TERPS TO PANS OPS 20-2

AIRCRAFT CATEGORIES / SPEEDS 20-6

HIGH PERFORMANCE MILITARY A/C (HPMA) 20-8

LANDING MINIMA EXPLANATION 20-9

COLD WEATHER ALTITUDE CORRECTION 20-11

DECLARED DISTANCES 20-12

AIRCRAFT CLASSIFICATION/PAVEMENT-
CLASSIFICATION NUMBER (ACN/PCN) 20-13

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RADIO NAVIGATIONAL AIDS 20-19

NDB BEARING/DISTANCES 20-20

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LIST OF AERODROMES 20-22

AERODROME BEARING/DISTANCES 20-23

CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL-AIM 21/APR 2022

INSTRUMENT APPROACH PROCEDURES – TRANSITION FROM TERPS CRITERIA TO ICAO DOC 8168 (PANS OPS)

In the coming versions of this FLIP a growing number of Instrument Approach Procedures (IAP) will be based on criteria in accordance with ICAO DOC 8168 (PANS OPS) and NATO STANAG 3759 (NATO SUPPLEMENT TO ICAO DOC 8168-0PS/611, VOL II FOR THE PREPARATION OF INSTRUMENT APPROACH AND DEPARTURE PROCEDURES (AATCP-1)). Procedures designed in accordance with these two documents will be marked MIPS (Military Instrument Procedures Standardization). Older IAP's based on TERPS criteria will remain valid until the transition process is complete. It will be clearly marked on which criteria an IAP is based:

TERPS INSTRUMENT APPROACH CHART							AD ELEV 171			HI-TACAN RWY 27L KARUP AIR BASE (EKKA)	
COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.575		KARUP APPROACH 292.750 120.425		KARUP TOWER 241.650 119.575					
TACAN KAR 110.00/CH 37x	APP COURSE 267°	FAF ALT 2000 FT	DESCENT GR 305 FT/NM	MDA 600	TDZE 170	ALS length 900 M	LDA 9607 FT				

TERPS - this IAP is based on TERPS criteria

MIPS INSTRUMENT APPROACH CHART							AD ELEV 171			ILS or LOC RWY 27L KARUP AIR BASE (EKKA)	
COPENHAGEN CONTROL 242.650 124.555		KARUP ATIS 120.575		KARUP APPROACH 292.750 120.425		KARUP TOWER 241.650 119.575					
LOC/DME KR 108.150/CH18y	APP COURSE 266°	GS INTCP ALT 2000 FT	GS 3.00°	DA 370	THR ELEV 170	ALS LENGTH 900 M	LDA 9607 FT				

MIPS (Military Instrument Procedure Standardization)

The following text explaining the main differences between TERPS and PANS OPS is a cut and paste from the latest version of STANAG 7199 (AFPP-1(B)) - NATO Supplement to ICAO Doc 8168 Volume I Flight Procedures, dated June 2017 and ratified by Denmark.

TERPS VERSUS PANS-OPS AND MIPS.

TERPS philosophy regarding the constructing of procedures differs from that of ICAO PANS-OPS in several areas, which also affects the way procedures are to be flown, e.g. turn radius, visual manoeuvring, ILS, missed approach. For aircrew that are used to only flying TERPS procedures, the following is worth noticing:

a. Aircraft Categories/Speeds.

Aircraft approach categories play a significant role in the design of PANS-OPS/MIPS instrument procedures. In addition to affecting final approach minima, PANS-OPS references maximum speeds by category for holding, departures and the initial and intermediate segments of instrument approaches. Also the final approach speeds specified by category will be different from the TERPS procedure speeds. The PANS-OPS references are as follows:

Turning departure speeds: PANS-OPS Part I, Section 3, Chapter 2, Table I-3-2-1.

Approach, circling and missed approach speeds: PANS-OPS Part I, Section 4, Chapter 1, Tables I-4-1-1 and I-4-1-2.

Holding speeds: PANS-OPS Part I, Section 6, Chapter 1, Table I-6-1-1.

Holding speeds (Helicopter): PANS-OPS Part I, Section 6, Chapter 1, Table I-6-1-2.

Helicopter only speeds: PANS-OPS Part I, Section 8, Chapter 3, Table I-8-3-1.

HPMA (High Performance Military Aircraft): The MIPS use a separate set of speeds for HPMA. Chapter 6 also provides a set of HPMA parameters for universal use.

Holding speeds (Helicopter): PANS-OPS Part I, Section 6, Chapter 1, Table I-6-1-2.
 Helicopter only speeds: PANS-OPS Part I, Section 8, Chapter 3, Table I-8-3-1.
 HPMA (High Performance Military Aircraft): The MIPS use a separate set of speeds for the unique HPMA category. AFPP-1, Chapter 6, Tables 6.2 and 6.3 show the speeds for HPMA. Chapter 6 also provides a set of HPMA parameters for universal use.
 (Note: The speeds (except helicopter only speeds) are summarized on pages 20-6 and 20-7).

b. Track.

Obstacle clearance in PANS-OPS/MIPS procedures is provided under the assumption that pilots will maintain the depicted ground track.

c. Bank Angle.

Unless otherwise specified, PANS-OPS approach procedures are based on average achieved bank angle of 25° or the bank angle giving a rate of turn of 3°/sec, whichever is less.

For departures and missed approach, PANS-OPS procedures are based on an average achieved bank angle of 15°. MIPS procedures generally are the same as PANS-OPS, but VCOA departures are based on 23° bank angle. The bank angle for HPMA is 30° for all segments.

d. Established on Course.

PANS-OPS defines "established on course" as being within half full-scale deflection for a VOR/DME or ILS (localizer) and within $\pm 5^\circ$ of the required final bearing for an NDB. MIPS applies the same deflection tolerance flying a TACAN as PANS-OPS applies for flying a VOR/DME approach.

Do not consider the aircraft to be established on course until within these limits.

PANS-OPS/MIPS obstacle clearance surfaces assume that the pilot does not normally deviate from the centre line more than one-half scale deflection after being established on track. Despite the fact that there is a range of "acceptable" variation, every attempt must be made to fly the aircraft on the course centre line and on the glide path.

Allowing a more than half-scale deflection (or a more than half-scale fly-up deflection on glideslope) combined with other system tolerances could place the aircraft near the edge or at the bottom of the protected airspace where loss of protection from obstacles can occur.

e. Omnidirectional Departures.

The PANS-OPS "Omnidirectional Departure" is somewhat similar to the TERPS "Diverse Departure"; a departure procedure without any track guidance provided.

An important difference is that an Omnidirectional Departure may be published even though obstacles penetrate the 2.5% Obstacle Identification Surface (OIS).

PANS-OPS then provides the procedure designer the following options for publishing departure restrictions.

1. Standard case.

Where no obstacles penetrate the 2.5% OIS, normally no departure restrictions will be published. Upon reaching 400 feet above Departure End of Runway (DER), a turn in any direction may be initiated.

2. Specified turn altitude.

The procedure may dictate a climb to a specified altitude, where an omnidirection-

ing departure restrictions.

1. Standard case.

Where no obstacles penetrate the 2.5% OIS, normally no departure restrictions will be published. Upon reaching 400 feet above Departure End of Runway (DER), a turn in any direction may be initiated.

2. Specified turn altitude.

The procedure may dictate a climb to a specified altitude, where an omnidirectional turn safely can be made.

3. Specified climb gradient.

The procedure may specify a minimum climb gradient of more than 3.3% to an altitude before turns are permitted.

4. Sector departure.

The procedure may identify sectors for which either a minimum turn altitude or a minimum climb gradient is specified. (e.g. "Climb in sector 180° - 270° to 2000 feet before commencing a turn.

f. Departures with Track Guidance.

PANS-OPS uses the term Standard Instrument Departure (SID) to refer to departures using track guidance. Minimum climb gradients above the standard 3.3% may apply.

For turning departures:

PANS-OPS protection area is based on using an average bank angle of 15° for the departure turn. Where a departure route requires a turn of more than 15°, a turning departure may be constructed. Turns may be specified at an altitude/height, at a fix or overhead a facility. If an obstacle prohibits turns before the departure end of the runway or prior to reaching an altitude/height, a turning point or a minimum turn altitude/height will be specified. Tracks to be flown and radials/bearings to be intercepted will also be specified.

1. Turning departure speeds.

If restricted below the standard maximum speeds, the restricted speeds should be published by category or by a general note. For example, the procedure may be annotated "Departure limited to CAT C aircraft" or "Departure turn limited to 185 kt IAS maximum". You must comply with the speed limit published on the departure to remain within protected airspace. If you require a higher speed for safe aircraft performance, ATC may approve the higher speed or assign an alternative departure procedure.

g. Departure: Runway End Crossing Height.

For PANS-OPS, the origin of the Obstacle Identification Surface (OIS) begins at 16 ft above the DER.

h. TERPS Low Altitude Approaches.

PANS-OPS does not distinguish between low and high altitude procedures.

PANS-OPS Part I, Section 4, Chapter 3 describes how to enter and fly the different manoeuvres and entries in the initial approach segment.

Differences from TERPS:

category definition, which for CAT D is 165 kt IAS.

Also, one important distinction to make is between the terms “runway environment” and “airport environment.” While circling using a PANS-OPS designed procedure, pilots must maintain visual contact with the runway environment throughout the entire circling manoeuvre. TERPS procedures only require pilots to maintain visual contact with the airport environment while circling to land, but cannot descend out of the circling MDA until the runway environment is in sight. The PANS-OPS protection area is based on using an average bank angle of 20° for the turn to final.

For HPMA, the circling criteria are stated on page 20-8.

a

j. Holding.

Differences from TERPS:

The PANS-OPS holding entry procedures are mandatory. Timing, distances and limiting radials must be complied with. Enter the holding pattern based on the heading relative to the three entry sectors depicted in PANS-OPS Part I, Section 6, Chapter 1, Paragraph 1.4. The margins on each sector dividing line is $\pm 5^\circ$. Upon reaching the holding fix, follow the appropriate procedure according to entry sector.

Bank angle must not be reduced for wind corrections. The bank angle used in PANS-OPS should be 25° or a rate of 3°/sec, whichever is less.

Timing is made on the outbound leg.

Attempt to maintain the track by allowing for known winds and applying corrections to heading and timing during entry and while flying in the holding pattern.

A radial or a DME value may be published to limit the outbound track.

k. Transition Altitude/Level.

Transition altitude is the altitude in the vicinity of an aerodrome at or below which the vertical position of an aircraft is determined from the altimeter set to QNH. Transition altitude is normally specified for each airfield by the country in which the airfield exists.

Transition altitude will not normally be below 3000 ft Height Above Aerodrome (HAA) and must be published on the appropriate charts.

Transition level is the lowest flight level available for use above the transition altitude.

Transition level is usually communicated to the aircraft together with the descent/approach clearances. The transition layer (area between the transition altitude and transition level) may also be supplied by ATC via the ATIS or during arrival. VFR flight levels may be used on some places, e.g. FL 045.

The vertical position of an aircraft at or below transition altitude shall be expressed in altitude (QNH). Vertical position at or above the transition level shall be expressed in terms of flight levels according to the standard altimeter setting 1013.2 hPa. When passing through the transition layer, vertical position shall be expressed in terms of flight levels when climbing and in terms of altitudes (QNH) when descending.

After an approach clearance has been issued and the descent is commenced, the vertical positioning of an aircraft above the transition level may be by reference to altitude (QNH) provided that a level off above the transition altitude is not anticipated.

This is intended for turbo jet aircraft where an uninterrupted descent from high altitude is desired.

AIRCRAFT CATEGORIES / SPEEDS (PANS OPS/ MIPS)

Approach, circling, missed approach and turning departure speeds

A/C category	V _{at}	Range of speeds for initial approach	Range of final approach speeds	Max. speeds for visual manoeuvring (circling)	Max speeds for missed approach		Max. speeds for turning departures
					Inter-mediate	Final	
A	<91	90/150(110 ¹)	70/100	100	100	110	120
B	91/120	120/180(140 ¹)	85/130	135	130	150	165
C	121/140	160/240	115/160	180	160	240	265
D	141/165	185/250	130/185	205	185	265	290
E	166/210	185/250	155/230	240	230	275	300
H	N/A	70/120 ²	60/90 ³	N/A	90	90	90
HPMA	See page 20-8						
CAT H (Pins) ³	NA	70/120	60/90	N/A	70 or 90		

V_{at} — Speed at threshold based on 1.3 times stall speed V_{so} or 1.23 times stall speed V_{slg} in the landing configuration at maximum certificated landing mass. (Not applicable to helicopters.)

- 1 Maximum speed for reversal and racetrack procedures.
- 2 Maximum speed for reversal and racetrack procedures up to and including 6.000 ft is 100 kt, and maximum speed for reversal and racetrack procedures above 6.000 ft is 110 kt.
- 3 Helicopter point-in-space procedures based on basic GNSS may be designed using maximum speeds of 120 kt for initial and intermediate segments and 90 kt on final and missed approach segments, or 90 kt for initial and intermediate segments and 70 kt on final and missed approach segments based on operational need. Refer to PANS-OPS, Volume II, Part IV, Chapter 1, "Area navigation (RNAV) point-in-space (PinS) approach procedures for helicopters using basic GNSS receivers".
- 4 Range of speeds for holding, initial, approach, reversal, racetrack and intermediate segment.

Note. The V_{at} speeds given in Column 1 of Table I-4-1-1 are converted exactly from those in this table, since they determine the category of aircraft. The speeds given in the remaining columns are converted and rounded to the nearest multiple of five for operational reasons and from the standpoint of operational safety are considered to be equivalent.

In accordance with FKOBST 152.1 item 36.3, aircraft of the Royal Danish Air Force are classified as follows:

T-17	Category A
AS-550 Fennec	Category A/H
Seahawk	Category A/H
EH-101	Category A/H
C-130J	Category C
CL-604	Category C
F-16	Category E

Holding speeds - Categories A through E

Levels ¹⁾	Normal conditions	Turbulence conditions
Up to 14.000 ft inclusive	230 kt ²⁾ 170 kt	280 kt ³⁾ 170 kt ⁴⁾
Above 14.000 ft to 20.000 ft inclusive	240 kt ⁵⁾	280 kt or 0.8 Mach, whichever is less ³⁾
Above 20.000 ft to 34.000 ft inclusive	265 kt ⁵⁾	
Above 20.000 ft to 34.000 ft inclusive	0.83 Mach	0.83 Mach

- 1) The levels shown represent altitudes or corresponding flight levels depending upon the altimeter setting in use.
- 2) When the holding procedure is followed by the initial segment of an instrument approach procedure promulgated at a speed higher than 230 kt, the holding should also be promulgated at this higher speed wherever possible.
- 3) The speed of 280 kt (0.8 Mach) reserved for turbulence conditions shall be used for holding only after prior clearance with ATC, unless the relevant publications indicate that the holding area can accommodate aircraft flight at these high holding speeds.
- 4) For holdings limited to CAT A and B aircraft only.
- 5) Wherever possible, 280 kt should be used for holding procedures associated with airway route structures.

Holding speeds — for helicopter procedures

Maximum speed up to 6.000 ft	
Maximum speed above 6.000 ft	
Note: MOC in secondary area for helicopter holding procedures is linear from zero to full MOC	

Final approach speeds – TERPS vs. PANS

A/C category	Range of final approach speeds	
	TERPS	PANS OPS
A	Less than 91 kt	70 - 100 kt
B	91 -121 kt	85 - 130 kt
C	121 - 141 kt	115 - 160 kt
D	141 - 166 kt	130 - 185 kt
E	166 kt or more	155 - 230 kt

MISCELLANEOUS

HIGH PERFORMANCE MILITARY AIRCRAFT (HPMA)

In order to fly procedures marked "HPMA" the aircraft shall, as a minimum, adhere to the gradients, segment speeds, bank angle and transition times described below. The specific HPMA-criteria replaces, amends or provides criteria in addition to PANS-OPS and MIPS:

- a) Departure procedures, minimum climb performance: 8.75% (5.0°).
- b) Initial segment descent gradient: Up to 1000 ft/NM.
- c) Bank angle: Minimum 30° for all segments, with a bank angle establishment Time of maximum 5 sec.
- d) Maximum aircraft dimensions for ILS: Wing span 30 m and glide path antenna to wheel base maximum 6 m.
- e) Height loss during precision approach transition to missed approach: Maximum 100 ft.
- f) Missed approach climb gradient: 6.0% (3.43°), with a transition time from level flight to the required climb gradient of maximum 10 sec.

Turn construction parameters / HPMA Speeds (IAS) for Procedure Calculations:

<i>Segment or fix</i>	<i>Speed (IAS)</i>	<i>Bank angle</i>	<i>Bank establishment Time (seconds)</i>	<i>Pilot reaction Time (seconds)</i>	
Departure	350 kt *)	30°	5	3	
Holding	300 kt *)	30°	5	3	
Initial approach	Reversal and racetrack	300 kt *)	30°	5	3
	DR track	300 kt *)	30°	5	3
Holding, initial approach, reversal, racetrack, intermediate segment	250 – 300 kt	30°	5	3	
Range of final approach speeds	90 – 185 kt	30°	5	3	
Max speed visual manoeuvring (circling)	220 kt	30°	N/A	N/A	
Visual manoeuvring using prescribed track	220 kt	30°	N/A	N/A	
Max speed missed approach	Intermediate	300 kt	30°	5	3
	Final	350 kt	30°	5	3

VISUAL MANOEUVRING (CIRCLING).

The visual manoeuvring (circling) radii are drawn around the thresholds on the applicable runway(s) and joined with tangents to the arcs. The radii values depends on the aerodrome elevation and will be 3.55 NM at sea level.

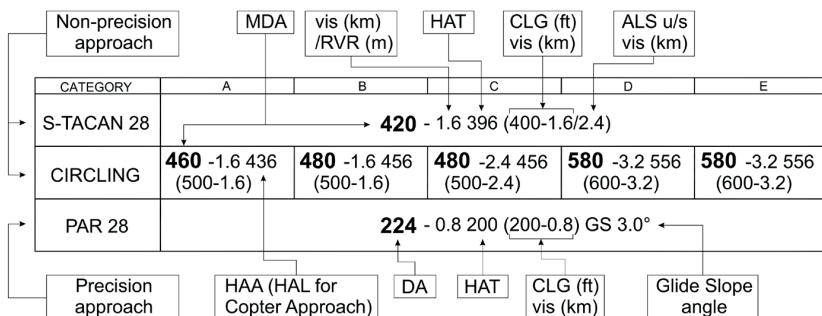
Obstacle clearance for circling areas:

<i>Aircraft category</i>	<i>Minimum obstacle clearance (ft)</i>	<i>Minimum OCH above AD elev (ft)</i>	<i>Minimum visibility km</i>
HPMA	300	550	3.2

CHARTING.

The term "HPMA" will be added for the procedure name, e.g. "HPMA TACAN RWY 10L".

LANDING MINIMA EXPLANATION



CLG Ceiling

A ceiling is expressed in feet above the published aerodrome elevation, and is equal to or greater than the height of the associated DA or MDA.

DA Decision Altitude

A specified altitude or height in a 3D instrument approach operation at which a missed approach must be initiated if the required visual reference to continue the approach has not been established.

HAA Height Above Aerodrome Elevation

The height of the MDA above the published aerodrome elevation. HAA will be published in conjunction with all circling minima.

HAT Height Above Touchdown Zone Elevation

The height of the DA or MDA above the highest runway centerline elevation in the touchdown zone. HAT will be published in conjunction with all straight-in minima.

MDA Minimum Descent Altitude

A specified altitude or height in a 2D instrument approach operation or circling approach operation below which descent must not be made without the required visual reference.

VIS Visibility

RVR Runway Visual Range

Visibility values are expressed as visual range (estimated horizontal visual range on the ground = VIS) or as runway visual range (measured horizontal visual range on the ground along the runway = RVR). The visibility values published following the DA or MDA is the required minimum visibility for the approach.

For straight-in approaches, the visibility value may be either VIS or RVR. For circling approaches, the visibility value will always be VIS. The visibility value published in parentheses with the ceiling value is applicable for flight planning purpose. It is also the required minimum visibility in the event that RVR is not available. The value will always be VIS. For ALS u/s, the last VIS value (after the slash) should be used.

ILS Cat. II operations

CATEGORY	A	B	C	D	E
ILS Cat. II 28		RA 101	(DA 124) - 350 100		N/A



RA Radio Altimeter Height.

An indication of the vertical distance between a point on the nominal glide slope at DH and the terrain directly beneath this point.

Note: ILS Cat. II criteria for aircraft Cat. E are not established.

COLD WEATHER ALTITUDE CORRECTION

International Standard Atmosphere (ISA) is used as a basis for the altitude corrections below. ISA temperature at sea level is +15° Celsius, decreasing 2° per 1000 feet above sea level. When actual temperature is lower than ISA, the aircraft will be lower than indicated in its pressure altimeter. Under such circumstances a compensation should be added to altitudes flown during the approach procedure. The altimeter error is approximately 0.4% of aircraft height above reference datum (AD) per degree C below ISA.

When AD temperature is 0 degrees or colder, values in the Altitude Correction Chart should be added to:

- All procedure altitudes below Transition Level (TL) and ATC assigned IFR altitudes, if not already compensated.
- Minimum Sector Altitudes (MSA) and Emergency Safe Altitudes.

Pilots must advise ATC when temperature correction is applied, and state amount of correction or new altitude to be flown.

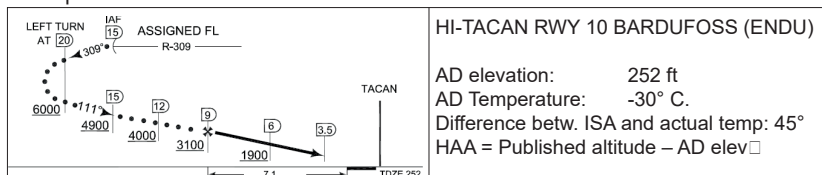
A/D Temp °C	HEIGHT ABOVE THE ALTIMETER SOURCE																
	200	300	400	500	600	700	800	900	1000	1500	2000	3000	4000	5000	6000	7000	8000
0	20	20	30	30	40	40	50	50	60	90	120	170	230	280	340	400	460
-10	20	30	40	50	60	70	80	90	100	150	200	290	390	490	590	690	790
-20	30	50	60	70	90	100	120	130	140	210	280	420	570	710	850	1000	1150
-30	40	60	80	100	120	140	150	170	190	280	380	570	760	950	1140	1340	1540
-40	50	80	100	120	150	170	190	220	240	360	480	720	970	1210	1460	1710	1960
-50	60	90	120	150	180	210	240	270	300	450	590	890	1190	1500	1800	2110	2420

VALUES TO BE ADDED TO PUBLISHED ALTITUDES

Note: The table is calculated for sea level AD. Values are conservative when applied at higher AD. (Reference: ICAO Doc 8168-OPS/611 Volume I, Table III-1-4-1 b).

For odd temperatures or altitudes the following 'rule of thumb' is easy to remember: Add 4 feet for each -1°C temperature deviation from ISA (+15 at SL), per 1000' altitude above the airport. (This method is slightly less conservative than the table above).

Example:

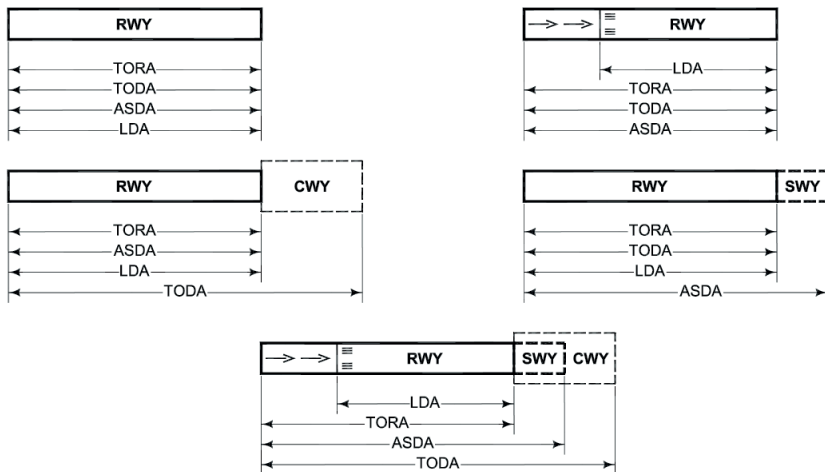


	Pub. alt.	HAA	Correction *)	Indicated alt **)
20 DME	6000	5748	+ 1100	7100
15 DME	4900	4648	+ 890	5800
12 DME	4000	3748	+ 720	4800
FAF	3100	2848	+ 550	3700
6 DME	1900	1648	+ 320	2300
MDA	1420	1168	+ 230	1650

*) Rounded up to the nearest 10 ft

**) Rounded up to the nearest 100 ft, except MDA

DETERMINATION OF DECLARED DISTANCES FOR RUNWAYS



SWY Stopway

A defined rectangular area on the ground at the end of take-off run available, prepared as a suitable area in which an aircraft can be stopped in case of an aborted take-off.

CWY Clearway

A defined rectangular area on the ground or water at the end of the runway in the direction of take-off and under control of an appropriate authority, selected or prepared as a suitable area over which an aircraft may make a portion of its initial climb to a specified height, (extension laterally to a distance of at least 75 metres either side of the extended runway centerline and not longer than half the length of the runway).

TORA Take-Off Run Available

The length of runway declared available and suitable for the ground run of an aircraft taking off.

TODA Take-Off Distance Available

The length of the take-off run available plus the length of the clearway, if provided.

ASDA Accelerate Stop Distance Available

The length of the take-off run available plus the length of the stopway, if provided.

LDA Landing Distance Available

The length of runway, which is declared available and suitable for the ground run of an aircraft landing. The LDA commences at the threshold/displaced threshold.

THE AIRCRAFT CLASSIFICATION/PAVEMENT CLASSIFICATION NUMBER (ACN/PCN) SYSTEM

1. ACN/PCN System

The ACN/PCN system provides a method of classifying pavement bearing strength for aircraft above 5700 KG Maximum Total Weight Authorized (MTWA).

The ACN is a number expressing the relative effect of an aircraft load on a pavement for a specified sub-grade strength.

The PCN is a number expressing the bearing strength of a pavement for unrestricted operations. Using the ACN/PCN system means to compare the ACN with the PCN.

2. Aircraft Classification Number (ACN)

The ACN is calculated, taking into account the weight of the aircraft, the pavement type and the sub-grade category. ACN values are normally given in the Flight Manuals for rigid and flexible pavements.

3. Pavement Classification Number (PCN)

PCN are reported as a five part code. Apart from the numerical value of the PCN, the report includes the pavement type (rigid or flexible) and the sub-grade support strength category.

Provision is made in the report for the aerodrome authority to place a limit on maximum allowable tyre pressure, if this is a constraint, and an indication is required of whether the pavement has been evaluated by technical means or by past experience of aircraft use of the pavement.

Details of the coded format and an example are:

- 3.1 The PCN number.
- 3.2 The type of pavement:
R = Rigid
F = Flexible
- 3.3 The pavement sub-grade category:
A = High
B = Medium
C = Low
D = Ultra-low
- 3.4 The maximum tyre pressure authorized for the pavement:
W = High, no limit
X = Medium, limited to 217 psi
Y = Low, limited to 145 psi
Z = Very low, limited to 73 psi

3.5 Pavement evaluation method:
T = Technical evaluation
U = By experience of aircraft using the pavement

3.6 Example:
If the bearing strength of a rigid pavement resting on a medium strength sub-grade has been assessed by a technical evaluation to be a PCN of 80 and there is no tyre pressure limit, then the reported information would be:

PCN: 80/R/B/W/T

4. Operating procedure.

- Provided a pavement PCN is equal to or greater than the ACN of the aircraft unlimited use of the pavement is permitted.
- Provided the PCN is smaller than the ACN, the use of the pavement by an aircraft can only be undertaken when prior permission of the individual aerodrome authority is granted or by reduction of the aircraft load.

NON-PRECISION APPROACHES – FLYING TECHNIQUES

In accordance with COMMISSION REGULATION (EC) No 859/2008 of 20 August 2008, the following is stated for civil aircraft:

... All non-precision approaches shall be flown using the continuous descent final approaches (CDFA) technique unless otherwise approved by the Authority for a particular approach to a particular runway. When calculating the minima in accordance with Appendix 1 (New), the operator shall ensure that the applicable minimum RVR is increased by 200 metres (m) for Cat A/B aeroplanes and by 400 m for Cat C/D aeroplanes for approaches not flown using the CDFA technique, providing that the resulting RVR/CMV value does not exceed 5 000 m.

There are three techniques for flying non-precision approaches:

- CDFA (Continuous descent final approach)
- Constant descent angle
- Step down descent (“dive and drive”)

CDFA

Continuous descent final approach (CDFA). A technique, consistent with stabilized approach procedures, for flying the final approach segment of a non-precision instrument approach procedure as a continuous descent, without level-off, from an altitude/height at or above the final approach fix altitude/height to a point approximately 15 m (50 ft) above the landing runway threshold or the point where the flare manoeuvre should begin for the type of aircraft flown.

ICAO Doc 8168-OPS/611 Vol I § 1.7.2.2 “This technique (CDFA) requires a continuous descent, flown either with VNAV guidance calculated by on-board equipment or based on manual calculation of the required rate of descent, without level-offs”.

Constant descent angle

ICAO Doc 8168-OPS/611 Vol I § 1.7.3.1 The second technique involves achieving a constant, unbroken angle from the final approach fix (FAF), or optimum point on procedures without an FAF, to a reference datum above the runway threshold, e.g. 15 m (50 ft).

When the aircraft approaches the MDA/H, a decision shall be made to either continue on the constant angle or level off at or above the MDA/H, depending on visual conditions.

ICAO Doc 8168-OPS/611 Vol I § 1.7.3.2 If the visual conditions are adequate, the aircraft continues the descent to the runway without any intermediate level-off.

ICAO Doc 8168-OPS/611 Vol I § 1.7.3.3 If visual conditions are not adequate to continue, the aircraft shall level off at or above the MDA/H and continue inbound until either encountering visual conditions sufficient to descend below the MDA/H to the runway or, reaching the published missed approach point and thereafter executing the missed approach procedure.

Step down descent (“dive and drive”)

ICAO Doc 8168-OPS/611 Vol I §1.7.4 The third technique involves an expeditious descent and is described as “descend immediately to not below the minimum step down fix altitude/height or MDA/H, as appropriate”. This technique is acceptable as long as the achieved descent gradient remains less than 15 per cent and the missed approach is initiated at or before the MAPt. Careful attention to altitude control is required with this technique due to the high rates of descent before reaching the MDA/H and, thereafter, because of the increased time of exposure to obstacles at the minimum descent altitude.

The NATO preferred flying technique

NATO is currently not recommending a preferred flying technique. Nor is visibility minima increased for flights not using the CDFA technique.

Procedure design

There are no differences in the design criteria for non-precision approaches, irrespective of the flying technique used during the final segment. However, in accordance with ICAO Doc 8168 Vol II Part I §9 4 3 5:

... Where distance information is available, to facilitate a continuous descent final approach (CDFA), descent profile advisory information for the final approach should be provided to assist the pilot in maintaining the calculated descent gradient. This information should consist of a table showing altitudes/heights through which the aircraft should be passing at each 2 km or 1 NM as appropriate.

Where DME is available all revised (MIPS) non-precision procedures in this FLIP will therefore contain a distance/altitude table in the profile view to define the distance/height relationship for the descent path angle required to facilitate the CDFA technique.

For pilots preferring the constant descent angle approach information of the descent angle/ gradient is provided in the distance/altitude table.

Pilots preferring the ‘dive and drive’ technique may ignore the distance/altitude table.

APPROACH LIGHTING SYSTEMS

For planning purposes the following approach lighting systems are to be considered as ALS:

Description	FLIP Code	System (Example)	IAC Depiction
ALFS-2 Standard length: 730/900 M *)	(A)		CAT II
ALFS-1 Standard length: 730/900 M *)	(A1)		CAT I
SSALR Standard length: 730/900 M *)	(A3)		CAT I
MALS/MALSF Standard length: 420 M *)	(A4) (A4)		CAT I
NATO standard Standard length: 900 M *)	(BP)		CAT I
Former NATO standard Standard length: 900 M	(BN)		CAT I
CALVERT Standard length: 900 M *)	(J)		CAT I
Centerline (high intensity) Standard length: 900 M *)	(O)		CAT I

*) The actual length of the ALS is indicated in the IAC briefing strip.

In accordance with FKOBST F.152-1 chapter 36 all other systems than those mentioned above are to be considered as SRC (Single Row Centerline).

CHANGES: EDITORIAL

AIR COMMAND DENMARK - MIL-AIM 21/APR. 2022

SIDESTEP PROCEDURE

A sidestep manoeuvre is the visual alignment manoeuvre, required by a pilot executing an approach to one runway and cleared to land on a parallel runway.

Pans Ops considers landing on any other runway than the approach runway as being a circling manoeuvre that requires circling minima. In some cases, this results in undesirable high minima.

In order to gain a much needed operational advantage, the sidestep procedure is introduced **as a national measure, applicable only to RDAF aircraft and only on the three airbases, Aalborg, Karup and Skrydstrup**. Landing minima to the parallel runway will be equal to or higher than the minima to the primary runway, but will normally be lower than the published circling minima.

The sidestep procedure is developed in accordance with the principles described in AFMAN 11-202 Vol 3 Flight Operations - FLIGHT OPERATIONS (10 JANUARY 2022) but using criteria from ICAO Doc. 8168 Vol II. Visibility minima are derived from STANAG 3759 (AATCP-1(E)), FAA Order 8260.3F Flight Procedures and Airspace (09/07/2023) and FKOBS F.152.1, chapter 36 whichever is the highest.

The procedure ensures adequate obstacle clearance within the entire final approach area covering both the approach runway and the sidestep runway. Area width depends on the navaid used as well as the location of the navaid, i.e. the area for an ILS or a Localizer only approach is narrower than that of a VORTAC. The obstacle clearance altitude (OCA) for the sidestep procedure has been calculated in parallel with that of the approach runway and the highest of the two determines the sidestep minima. However, the published minimum is never below the MDH as determined by FKOBS F.152.1, chapter 36 per aircraft type for landing on parallel runways.

How to fly a sidestep procedure:

- Do NOT initiate the sidestep manoeuvre prior to passing the FAP/FAF.
- After the FAP/FAF commence the sidestep manoeuvre as soon as possible after the runway or runway environment is in sight.
- Comply with any minimum altitude associated with step down fixes.
- Maintain the sidestep MDA until reaching a point where a normal descent to land on the sidestep runway can be started.
- If you lose visual reference during the manoeuvre, follow the missed approach specified for the approach procedure just flown, unless otherwise directed. An initial climbing turn towards the approach runway will ensure that the aircraft remains within the obstruction clearance area.

Sidestep minima are published only for Aalborg, Karup and Skrydstrup.


RADIO NAVIGATIONAL AIDS

VOR / TACAN / DME					
Station	ID	Facility	Var.	Freq / Ch	Position
Aalborg	AAL	VOR	4°E (2022)	116.70	N57°06.22' E009°59.74'
Aalborg	AAL	TACAN	4°E (2023)	CH 114X	N57°06.24' E009°59.57'
Alsie	ALS	VOR	4°E (2022)	114.70	N54°54.33' E009°59.60'
Bella	BEL	DME		114.65/CH 93Y	N55°47.47' E012°05.75'
Codan	CDA	VOR/DME	3°E (2016)	114.90/CH 96X	N55°00.09' E012°22.75'
Esebo	ESE	DME		116.60/CH 113X	N55°31.35' E008°33.52'
Karup	KAR	TACAN	4°E (2023)	CH 37X	N56°17.80' E009°00.52'
Kastrup	KAS	VOR/DME	5°E (2022)	112.50/CH 72X	N55°35.43' E012°36.82'
Korsa	KOR	VOR/DME	4°E (2022)	112.80/CH 75X	N55°26.36' E011°37.89'
Lemme	LME	DME		115.35/CH 100Y	N55°59.56' E008°21.26'
Odin	ODN	VOR/DME	4°E (2022)	115.50/CH 102X	N55°34.86' E010°39.18'
Ramme	RAM	DME		111.85/CH 55Y	N56°28.70' E008°11.24'
Rønne	ROE	VOR	4°E (2016)	112.00	N55°03.94' E014°45.52'
Rønne	ROE	TACAN	5.5°E (2023)	CH 57X	N55°03.71' E014°45.35'
Skrydstrup	SKR	TACAN	4°E (2023)	CH 41X	N55°13.74' E009°12.84'
Trano	TNO	VOR/DME	4°E (2022)	117.40/CH 121X	N55°46.45' E011°26.35'
Vamdrup	VAM	DME		110.05/CH 37Y	N55°26.28' E009°20.10'

NDB			
Station	ID	Freq (KHz)	Position
Stauning	AU	346	N55°59.46' E008°19.10'
Esbjerg	EJ	400.5	N55°32.47' E008°41.98'
Odense	FE	423	N55°31.21' E010°27.75'
Esbjerg	HP	376	N55°30.69' E008°24.76'
Vamdrup	KD	357	N55°26.60' E009°20.09'
Roskilde	RK	368	N55°37.39' E011°59.83'
Sindal	SD	339	N57°30.05' E010°09.04'
Aarhus	TL	384	N56°18.02' E010°37.12'
Stauning	VJ	328	N55°59.32' E008°25.47'
Skrydstrup	VO	321	N55°13.48' E009°16.42'

NDB BEARING/DISTANCE FROM VOR/TACAN


Bearings from the VOR/TACAN facility are magnetic (and equal to the radial), corrected for the variation published in MIL AIP page ENR 4.1 (See also page 20-20). Distances are in nautical miles.

	AAL	ALS*)	CDA	KAR	KAS	KOR	ODN	SKR	TNO
AU	216.4°	315.4°	291.9°	227.9°	276.2°	283.8°	284.3°	322.7°	274.3°
	87.0	86.8	150.8	29.6	147.4	117.2	82.3	55.0	106.2
EJ	201.2°	307.2°	282.9°	189.1°	265.3°	270.7°	264.7°	313.1°	258.6°
	103.4	58.6	130.4	46.6	133.3	100.2	66.6	25.7	94.2
FE	166.4°	019.4°	293.2°	129.0°	262.6°	273.4°	236.6°	063.2°	241.7°
	96.5	40.3	72.8	67.7	73.4	40.2	7.5	46.2	36.5
HP	205.5°	300.5°	281.3°	199.3°	264.8°	269.6°	263.8°	298.1°	258.5°
	109.4	65.4	139.6	51.3	143.2	110.0	46.8	32.3	104.1
KD	188.7°	321.3°	282.5°	163.7°	261.8°	267.1°	256.1°	013.8°	251.3°
	102.2	39.5	107.9	52.5	112.2	78.5	45.7	13.5	74.3
RK	138.2°	053.1°	337.9°	106.6°	270.6°	044.2°	082.3°	070.8°	111.4°
	111.3	81.2	39.6	108.6	21.1	16.6	45.8	98.0	21.0
SD	008.0°	357.9°	331.6°	023.0°	320.6°	335.0°	348.0°	008.5°	334.2°
	24.4	156.1	167.7	81.6	141.0	133.4	116.6	140.1	112.2
TL	152.5°	010.0°	320.3°	085.1°	298.3°	323.0°	354.5°	031.8°	315.3°
	52.5	86.5	98.4	53.8	79.7	62.1	43.3	80.1	42.0
VJ	214.5°	317.2°	292.4°	222.9°	276.3°	284.2°	284.9°	325.9°	274.5°
	84.9	84.3	147.4	27.0	143.9	113.7	79.4	53.0	102.7
VO	188.4°	304.0°	275.4°	168.0°	255.5°	257.9°	242.1°	093.1°	242.8°
	115.5	31.4	107.8	65.1	116.3	81.8	51.8	2.1	80.9

*)No DME

VOR/TACAN BEARING/DISTANCE FROM VOR/TACAN

Bearings from the VOR/TACAN facility are magnetic (and equal to the radial), corrected for the variation published in MIL AIP page ENR 4.1 (See also page 20-20). Distances are in nautical miles.

	AAL	ALS*)	CDA	KAR	KAS	KOR	ODN	SKR	TNO
AAL		356.0° 132.2	325.6° 149.7	029.4° 58.5	312.2° 126.1	328.0° 114.0	342.7° 94.1	010.7° 115.7	325.5° 93.3
ALS	176.0° 132.2		264.0° 82.7	153.8° 90.1	241.5° 98.9	237.0° 64.9	205.4° 46.5	123.6° 33.2	220.1° 72.0
CDA	142.6° 149.7	081.0° 82.7		118.8° 138.5	187.9° 36.3	131.4° 36.8	115.8° 68.7	093.9° 109.9	140.9° 56.5
KAR	210.3° 58.5	334.6° 90.1	302.6° 138.5		285.7° 128.8	297.3° 102.5	304.5° 70.2	351.9° 64.6	288.0° 87.6
KAS	131.0° 126.1	060.3° 98.9	009.7° 36.3	103.7° 128.8		070.4° 34.7	084.7° 66.8	076.0° 118.3	101.0° 41.4
KOR	146.6° 114.0	055.7° 64.9	313.1° 36.8	115.1° 102.5	250.2° 34.7		099.9° 34.4	078.3° 83.8	157.9° 21.2
ODN	162.2° 94.1	024.9° 46.5	298.2° 68.7	123.2° 70.2	265.3° 66.8	280.7° 34.4		064.1° 53.6	242.8° 29.1
SKR	189.4° 115.7	302.2° 33.2	275.5° 109.9	169.7° 64.6	255.8° 118.3	258.3° 83.8	243.3° 53.6		243.5° 82.7
TNO	144.3° 93.3	038.9° 72.0	322.7° 56.5	106.0° 87.6	281.0° 41.4	338.1° 21.2	060.1° 29.1	063.7° 82.7	

*)No DME


LIST OF AERODROMES

Aerodrome	Lat/Long	RWY	RWY length		Freq.	Phone	PPR
EKAE (Ærø)	N54 51,2 E010 27,4	15/33	2591 x 98 ft	○	123.175	6352 6367	Y
EKAH (Århus)	See page 2-1						
EKAT (Anholt)	N56 42,0 E011 33,3	03/21	2132 x 65 ft	○	131.500	4619 1114	N
EKBI (Billund)	See page 3-1						
EKCH (Kastrup)	See page 6-1						
EKEB (Esbjerg)	See page 4-1						
EKEL (Endelave)	N55 45,3 E010 15,2	11/29	2132 x 82 ft	○	129.800	7568 9062	N
EKGH (Grønholt)	N55 56,4 E012 22,9	11/29	2393 x 59 ft	●	122.500	3332 6560	Y
EKHG (Herning)	N56 11,1 E009 02,8	09/27	3933 x 98 ft	●	121.000	9714 1244	N
EKHK (Holbæk)	N55 44,0 E011 36,2	10/28	1853 x 59 ft	○	123.500	2694 4174	Y
EKHV (Haderslev)	N55 18,2 E009 31,4	10/28	3674 x 75 ft	●	122.225	4087 8640	N
EKKA (Karup)	See page 5-1						
EKKL (Kalundborg)	N55 42,1 E011 15,1	09/27	2293 x 59 ft	●	122.500	5929 1123	N
EKLS (Læsø)	N57 16,7 E011 00,3	07/25	3044 x 75 ft	●	123.175	2498 3595	N
EKLV (Lemvig)	N56 30,2 E008 18,3	08/26	2434 x 98 ft	○	123.500	9782 1368	N
Lindtorp	N56 23,7 E008 26,5	08/26	3937 x 98 ft	●	122.500	9748 7573	N
EKMB (Maribo)	See page 7-1						
EKNM (Morsø)	N56 49,5 E008 47,2	11/29	2296 x 98 ft	○	122.075	9772 0004	N
Næstved	N55 12,6 E011 43,1	07/25	1387 x 49 ft	○	N/A	6173 1950	N
EKOD (Odense)	See page 8-1						
EKPB (Kruså/Padborg)	N54 52,3 E009 16,8	06/24	3523 x 98 ft	●	122.075	7467 6517	N
EKRA (Rårup)	N55 46,6 E009 56,5	10/28	2296 x 65 ft	○	122.500	4010 7707	Y
EKRD (Randers)	N56 30,4 E010 02,3	07/25	2952 x 75 ft	●	122.075	8640 4011	N
EKRK (Roskilde)	See page 9-1						
EKRN (Rønne)	See page 10-1						
EKRS (Ringsted)	N55 25,6 E011 48,4	05/23	2404 x 131	○	123.500	2029 3428	N
EKSB (Sønderborg)	See page 15-1						
EKSD (Spjald)	N56 06,2 E008 30,9	14/32	2132 x 98 ft	○	N/A	9738 1194	Y
EKSN (Sindal)	See page 11-1						
EKSP (Skrydstrup)	See page 13-1						
EKSS (Samsø)	N55 53,4 E010 36,9	10/28	2293 x 98 ft	○	123.500	4016 4044	N
EKST (Sydfyn/Tåsinge)	N55 01,1 E010 33,8	11/29	2952 x 75 ft	○	123.400		N
EKSV (Skive)	See page 12-1						
EKTD (Tønder)	N54 55,8 E008 50,5	12/30	2788 x 98 ft	○	122.500	7472 2655	N
EKTS (Thisted)	See page 16-1						
EKVB (Viborg)	N56 24,6 E009 24,6	11/29 17/35	1896 x 98 ft 2214 x 98 ft	○ ○	123.500	8660 1860	N
EKVD (Vamdrup)	See page 17-1						
EKVH (Vesthimmerland)	N56 50,9 E009 27,6	11/29	3976 x 75 ft	●	122.225	9966 7385	N
EKVJ (Staining)	See page 14-1						
EKYT (Aalborg)	See page 1-1						

● Asphalt ○ Grass

AERODROME BEARING/DISTANCE FROM VOR/TACAN


Bearings from the VOR/TACAN facility are magnetic (and equal to the radial) corrected for the variation published in MIL AIP page ENR 4.1 (See also page 20-20). Distances are in nautical miles.

	AAL	ALS*)	CDA	KAR	KAS	KOR	ODN	SKR	TNO
EKAE	169.2° 136.3	097.0° 16.4	260.1° 68.6	145.8° 98.4	238.9° 87.3	225.4° 53.7	184.9° 43.8	113.3° 46.8	207.7° 65.0
EKAH	152.5° 52.4	010.0° 86.5	320.3° 98.6	085.1° 53.8	300.4° 79.8	322.9° 62.2	354.5° 43.5	031.7° 80.2	315.2° 42.1
EKAT	110.7° 56.9	021.5° 120.1	342.1° 105.7	069.0° 88.1	329.4° 75.5	354.1° 75.7	019.9° 73.7	036.8° 118.5	360.0° 55.7
EKBI	195.2° 86.6	326.5° 57.9	290.2° 118.9	167.7° 33.8	272.8° 117.7	279.1° 86.2	277.3° 51.7	352.4° 30.8	265.4° 77.4
EKCH	130.0° 126.0	059.8° 100.9	011.3° 38.2	102.8° 129.6	038.1° 2.2	068.5° 36.5	083.3° 68.2	073.3° 119.9	098.3° 42.3
EKEB	203.5° 106.3	303.6° 62.0	282.1° 135.0	194.5° 48.8	267.1° 138.3	270.1° 105.2	264.2° 71.6	304.7° 28.8	258.5° 99.2°
EKEL	169.9° 81.4	005.6° 51.9	299.8° 85.9	123.4° 52.9	275.1° 80.9	288.6° 50.7	303.8° 17.3	043.6° 47.5	265.0° 40.3
EKGH	126.4° 105.8	047.7° 102.6	357.0° 56.5	095.3° 115.2	336.5° 22.5	036.0° 39.5	064.9° 62.4	063.0° 116.0	068.0° 33.4
EKHG	206.0° 63.6	333.6° 83.5	300.5° 134.1	165.9° 6.8	285.0° 125.9	294.2° 98.5	300.4° 65.5	350.2° 57.8	284.0° 84.5
EKHK	142.3° 98.3	043.3° 74.3	326.3° 51.4	106.1° 93.7	281.6° 35.4	352.8° 17.7	069.7° 33.6	064.6° 87.1	109.3° 6.1
EKHV	184.5° 109.5	322.0° 28.8	278.6° 99.9	159.6° 62.3	258.9° 106.9	260.4° 72.6	242.9° 42.0	063.5° 11.5	243.2° 71.2
EKKA	207.0° 56.8	336.9° 89.0	303.4° 136.0	085.3° 3.9	288.2° 125.9	298.4° 99.9	306.1° 67.8	352.6° 64.3	288.8° 84.7
EKKL	149.1° 94.2	037.5° 64.3	314.9° 57.1	110.5° 83.6	275.6° 46.3	316.5° 20.3	066.3° 21.5	063.0° 75.1	233.3° 7.8
EKLS	068.0° 34.5	008.9° 146.6	338.9° 144.4	043.3° 88.3	329.8° 114.8	345.5° 112.5	002.3° 102.6	021.1° 136.9	347.0° 91.5
EKLV	233.6° 66.2	326.0° 111.7	301.9° 164.8	294.4° 26.4	289.6° 154.8	297.1° 128.9	302.1° 96.3	334.7° 82.4	290.0° 113.8
Lindtorp	227.0° 66.5	326.0° 104.0	300.8° 157.7	283.9° 19.9	287.8° 148.6	295.4° 122.0	300.3° 89.1	336.0° 74.9	287.7° 107.4
EKMB	156.7° 152.6	099.3° 51.7	238.2° 37.3	134.2° 126.9	214.5° 67.1	184.5° 45.0	148.7° 59.5	107.6° 83.2	176.0° 64.6
EKNM	243.5° 43.1	337.0° 122.4	310.6° 163.4	343.0° 32.6	298.7° 148.1	308.3° 126.7	316.9° 97.5	347.7° 97.0	302.6° 108.9
Næstved	148.3° 127.7	068.2° 62.2	296.1° 26.1	120.3° 112.6	230.6° 38.2	164.1° 14.0	117.1° 42.7	085.7° 86.0	160.3° 35.1
EKOD	169.2° 98.5	014.5° 36.2	28.9° 76.0	133.3° 66.5	262.8° 78.2	269.4° 44.6	236.3° 12.8	064.3° 40.9	241.0° 41.8

*)No DME

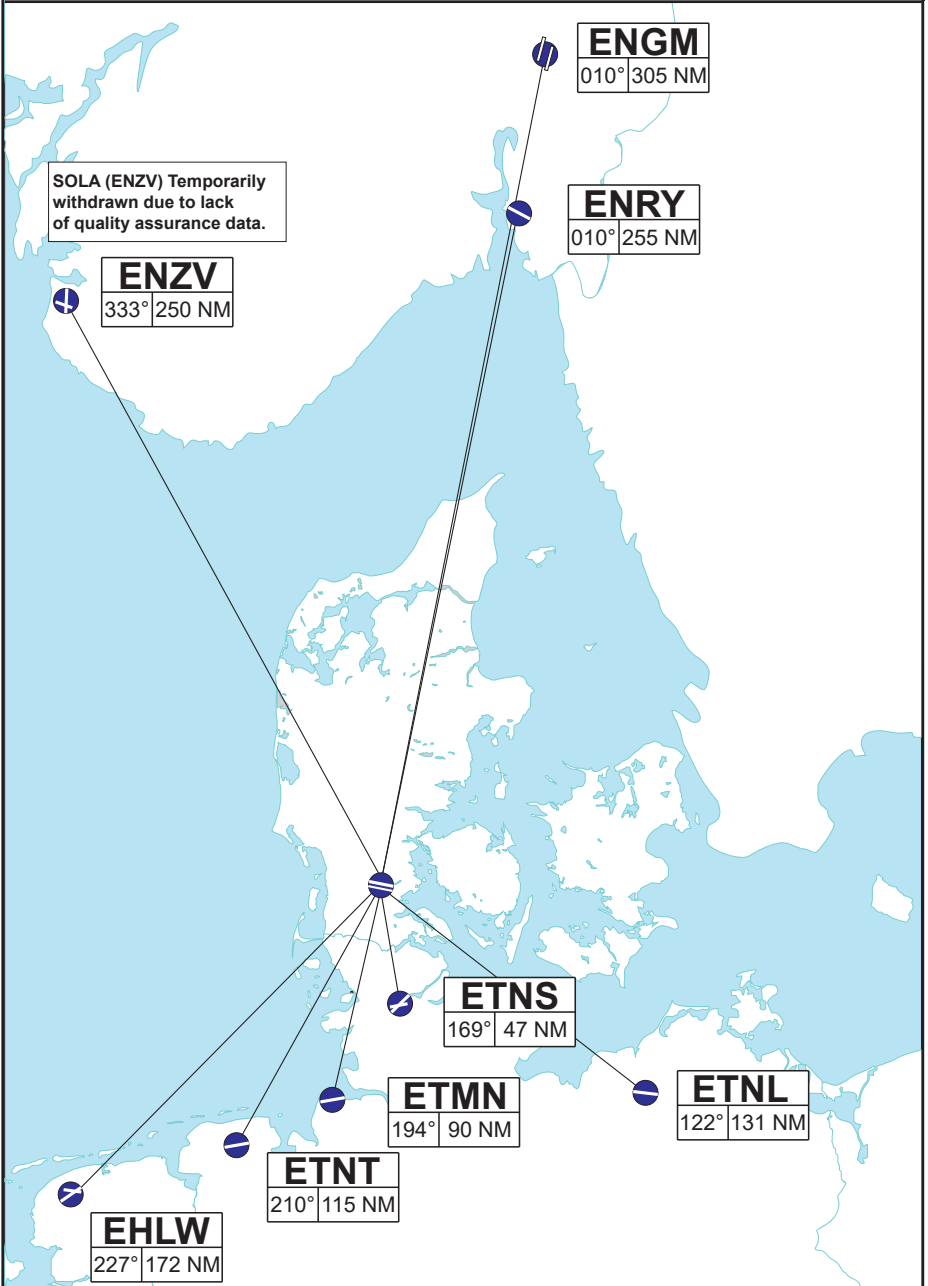
Continued next page

AERODROME BEARING/DISTANCE FROM VOR/TACAN (continued)

	AAL	ALS*)	CDA	KAR	KAS	KOR	ODN	SKR	TNO
EKPB	186.5° 136.4	261.4° 24.8	264.1° 107.5	169.8° 86.2	245.6° 122.5	244.0° 87.9	224.4° 63.7	170.0° 21.7	230.6° 91.8
EKRA	177.3° 79.8	354.1° 52.5	197.3° 95.6	130.5° 44.3	273.2° 91.4	286.2° 61.0	292.4° 26.9	033.6° 41.3	266.8° 50.7
EKRD	173.3° 35.9	356.8° 96.3	316.7° 120.4	065.3° 36.5	298.5° 102.7	316.7° 83.7	335.8° 59.4	015.5° 81.7	309.7° 64.5
EKRK	137.1° 115.9	056.0° 84.0	343.5° 36.1	106.8° 113.7	264.2° 16.4	058.5° 19.2	085.1° 50.3	072.6° 102.0	111.5° 26.1
EKRN	121.5° 201.7	080.7° 165.0	083.4° 82.3	104.4° 208.9	107.5° 80.0	096.6° 109.7	096.8° 144.1	086.7° 191.1	105.3° 121.3
EKRS	144.3° 117.7	058.6° 69.8	319.7° 32.2	113.8° 108.1	245.5° 29.2	094.6° 6.1	098.9° 40.5	077.3° 89.6	145.0° 24.9
EKSB	178.0° 128.9	292.7° 7.7	266.6° 89.4	157.3° 84.5	244.8° 103.8	242.3° 69.4	214.7° 47.5	124.5° 25.6	225.7° 74.5
EKSD	215.7° 77.6	321.6° 87.9	295.3° 147.4	231.0° 20.2	279.2° 142.0	288.0° 112.9	290.4° 78.8	332.0° 57.6	278.5° 100.6
EKSN	013.6° 25.2	358.8° 156.4	332.4° 166.7	024.4° 82.9	321.5° 139.6	336.0° 132.6	349.2° 116.5	009.4° 140.9	335.4° 111.5
EKSP	188.4° 115.8	303.5° 31.4	275.3° 108.0	168.2° 65.2	255.4° 116.6	257.7° 82.0	242.0° 52.1	100.7° 1.9	242.7° 81.2
EKSS	160.0° 75.9	015.4° 62.8	309.3° 80.6	109.8° 59.2	280.7° 70.2	304.5° 43.9	351.8° 18.6	045.6° 62.0	280.3° 28.7
EKST	167.1° 126.9	067.0° 20.8	268.6° 62.7	140.9° 93.4	239.6° 78.3	231.6° 44.6	181.2° 34.1	100.8° 48.2	209.6° 54.5
EKSV	215.4° 42.9	340.6° 102.7	309.0° 143.1	015.7° 16.2	293.0° 129.3	305.9° 106.4	316.2° 76.6	355.0° 79.5	298.5° 89.2
EKTD	193.0° 136.3	268.6° 40.0	266.4° 122.5	180.0° 82.4	249.4° 135.4	249.4° 100.8	234.5° 73.5	211.7° 22.1	237.3° 102.4
EKTS	263.7° 42.2	338.1° 137.1	313.7° 175.3	343.9° 47.5	300.9° 157.9	312.3° 138.5	320.8° 110.6	347.4° 111.9	307.7° 119.8
EKVB	201.0° 45.9	343.9° 92.6	308.3° 131.6	058.8° 15.0	290.9° 118.6	304.9° 95.0	316.5° 65.1	001.2° 71.3	296.2° 78.2
EKVD	188.7° 102.7	320.8° 39.2	282.3° 108.0	164.0° 52.8	261.6° 112.4	266.8° 78.6	255.6° 45.9	013.7° 13.1	251.0° 74.6
EKVH	224.8° 23.4	347.4° 118.1	316.6° 148.4	020.1° 36.3	301.9° 129.9	316.2° 111.7	328.8° 86.0	000.7° 97.6	311.2° 92.4
EKVJ	215.7° 86.3	316.1° 86.0	292.1° 149.6	226.2° 28.7	276.3° 146.2	284.0° 116.0	284.5° 81.7	323.8° 54.3	274.4° 105.0
EKYT	259.4° 4.5	354.0° 131.7	324.1° 151.8	025.9° 55.6	310.7° 129.1	325.9° 115.9	340.1° 94.8	006.6° 114.2	323.1° 95.3

*)No DME

F-16 Foreign Alternate Aerodromes



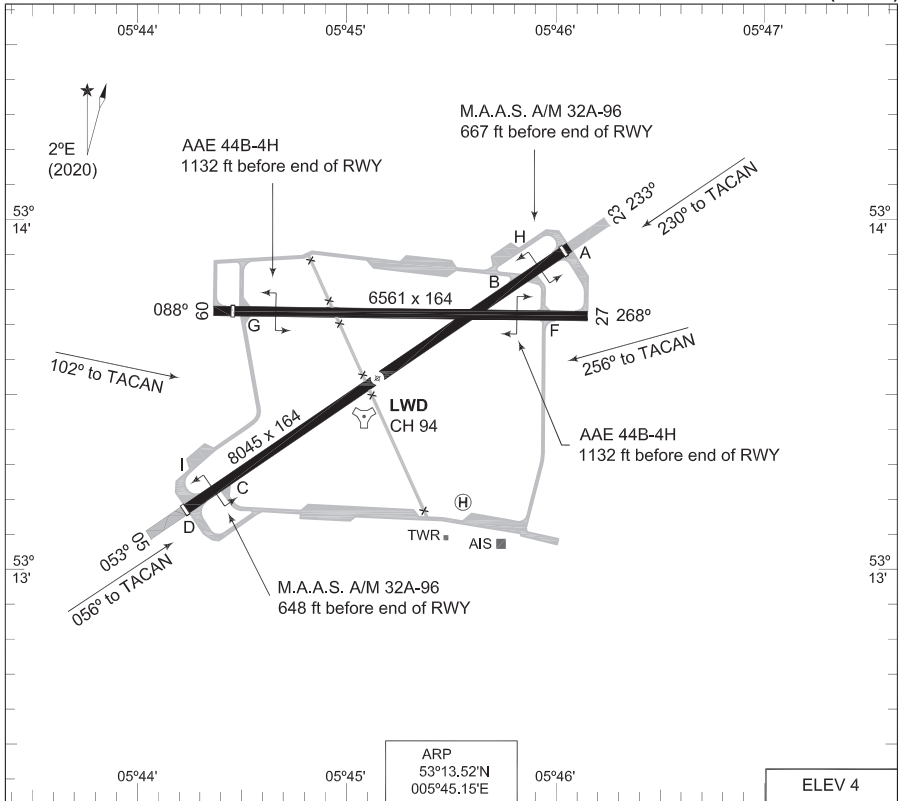
INTENTIONALLY

LEFT

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**MIPS
AERODROME CHART**

LEEUWARDEN (EHLW)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	THR ELEV	THR PSN
23	64 F/B/W/T	8045	8045	8832	7863	3.0°	4	53°13.88'N 005°46.04'E
05	64 F/B/W/T	8045	8045	8865	8036	3.0°	4	53°13.15'N 005°44.27'E
27	52 F/B/W/T	6561	6561	6561	6561		3	53°13.71'N 005°46.18'E
09	52 F/B/W/T	6561	6561	6561	6368		3	53°13.71'N 005°44.44'E

LEEUWARDEN TWR 344.850 120.705 (Ground Control) 362.525
 LEEUWARDEN ARRIVAL 339.700
 RAPCON NORTH 284.475 132.030

SRA	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
	MIPS	23					AB	MIPS	450-1100 446 (500-1.1/1.9)
							C		450-1200 446 (500-1.2/2.0)
							D		450-1600 446 (500-1.6/2.4)
							E		450-2000 446 (500-2.0/2.8)
	MIPS	05					AB	MIPS	470-1100 446 (500-1.1/1.9)
							C		470-1200 446 (500-1.2/2.0)
							D		470-1600 446 (500-1.6/2.4)
							E		470-2000 446 (500-2.0/2.8)
	MIPS	27					AB	MIPS	420-1900 417 (500-1.9/1.9)
							CD		420-2000 417 (500-2.0/2.0)
							E		420-2400 417 (500-2.4/2.4)
	MIPS	09					AB	MIPS	460-1900 458 (500-1.9/1.9)
							C		460-2000 458 (500-2.0/2.0)
							DE		460-2400 458 (500-2.4/2.4)

CHANGES: MAGVAR, CABLE

RNLAF 03 DEC 2020

AERODROME CHART

LEEUWARDEN (EHLW)

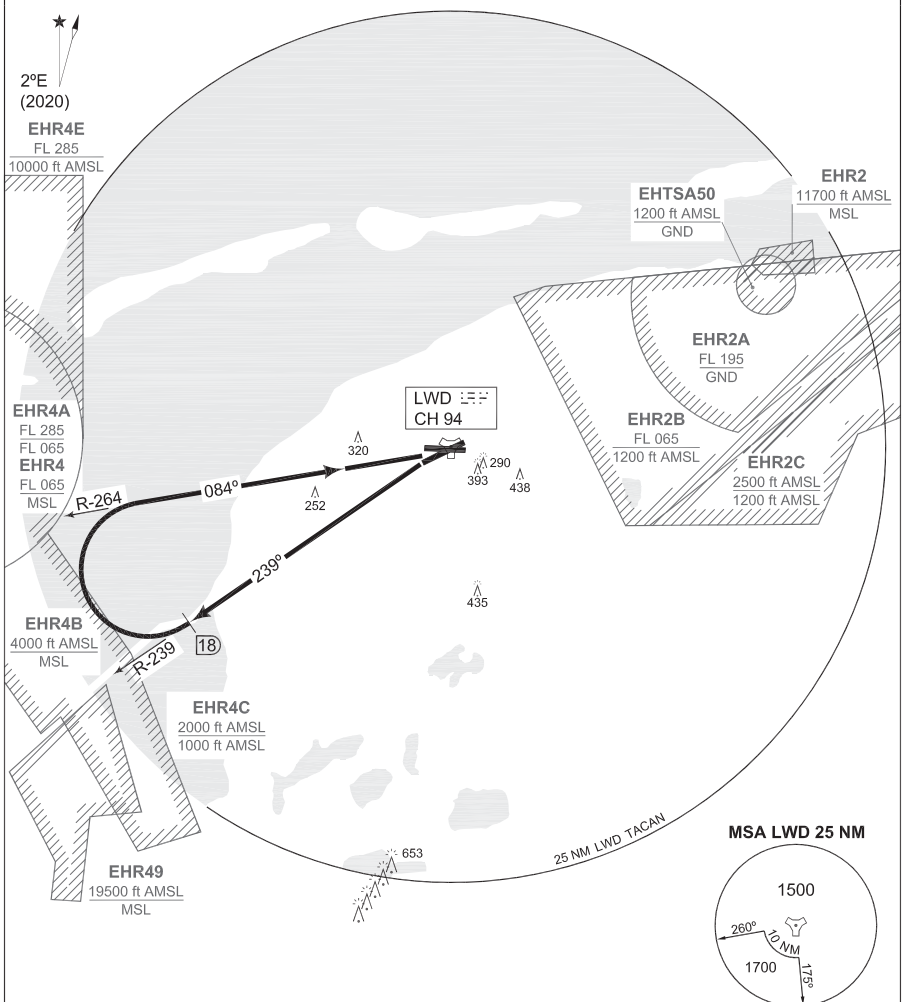


TERPS INSTRUMENT DEPARTURE CHART

LW1

LEEWARDEN (EHLW)

GND CTL 362.525	LEEWARDEN TWR 344.850 120.705	RAPCON NORTH 284.475 132.030		DUTCH MIL 259.250 128.355					
		RWY 23	Knots V/V (fpm)	120 600	180 900	240 1200	300 1500	360 1800	to 1000 ft



EMERG SAFE ALT 100 NM 2300 **TA 3000**

LEEWARDEN 1 (RWY 23)	<ul style="list-style-type: none"> - Climb on R-239 outbound Leeuwarden TACAN. - At 18 DME turn right to intercept R-264 inbound and proceed to Leeuwarden TACAN.
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NOTE: Procedure may be changed by ATC when BREEZANDDIJK firing range is active.

CHANGES: MSA

RNLAF 23 MAR 2023

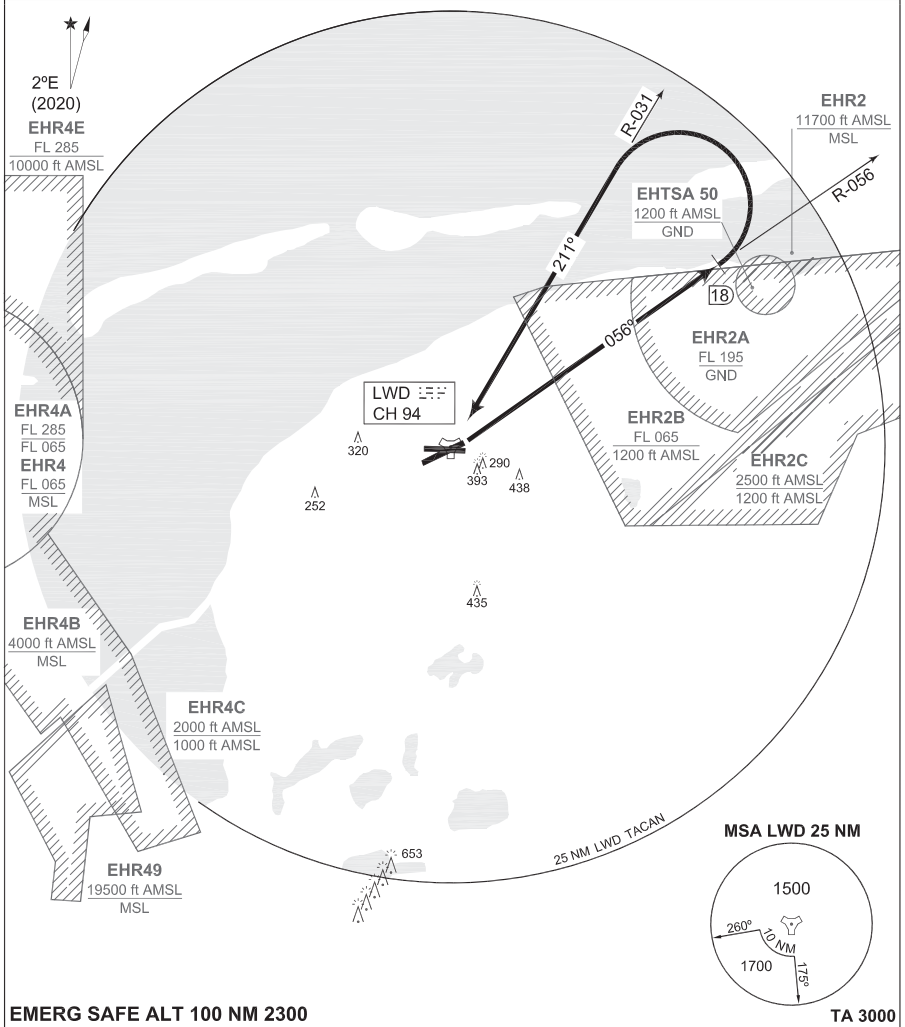
LW1 53°13.52'N
005°45.15'E **LEEWARDEN (EHLW)**

**TERPS
INSTRUMENT DEPARTURE CHART**

LW3

LEEWARDEN (EHLW)

GND CTL 362.525	LEEWARDEN TWR 344.850 120.705	RAPCON NORTH 284.475 132.030		DUTCH MIL 259.250 128.355					
		RWY	Knots	120	180	240	300	360	to
		05	V/V (fpm)	540	810	1080	1350	1620	1000 ft



EMERG SAFE ALT 100 NM 2300 **TA 3000**

LEEWARDEN 3 (RWY 05) - Climb on R-056 outbound Leeuwarden TACAN.
- At 18 DME turn left to intercept R-031 inbound and proceed to Leeuwarden TACAN.

CHANGES: MSA

RNLAF 23 MAR 2023

LW3 53°13.52'N
005°45.15'E **LEEWARDEN (EHLW)**

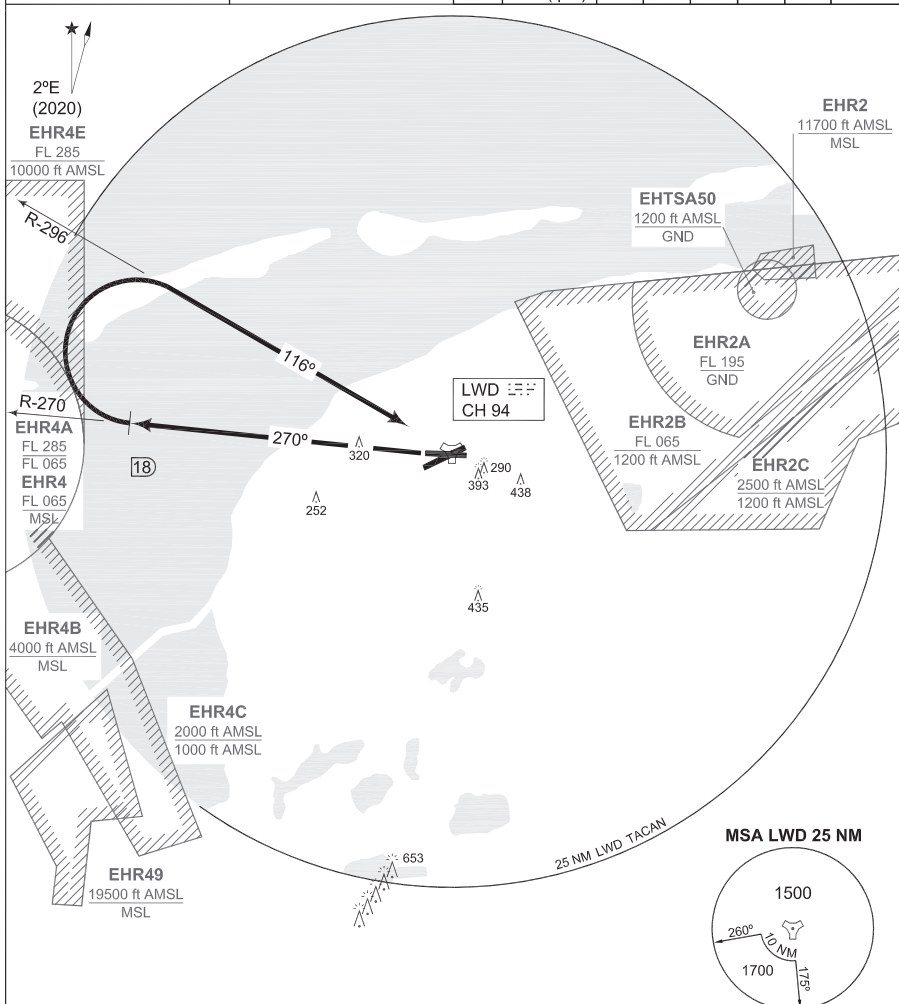


**TERPS
INSTRUMENT DEPARTURE CHART**

LW5

LEEWARDEN (EHLW)

GND CTL 362.525	LEEWARDEN TWR 344.850 120.705	RAPCON NORTH 284.475 132.030		DUTCH MIL 259.250 128.355					
		RWY	Knots	120	180	240	300	360	to
		27	V/V (fpm)	550	825	1100	1375	1700	1000 ft



EMERG SAFE ALT 100 NM 2300

TA 3000

LEEWARDEN 5 (RWY 27)	<ul style="list-style-type: none"> - After take-off RWY 27 intercept R-270 outbound Leeuwarden TACAN. - At 18 DME turn right to intercept R-296 inbound Leeuwarden TACAN.
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CHANGES: MSA

RNLAF 23 MAR 2023

LW5

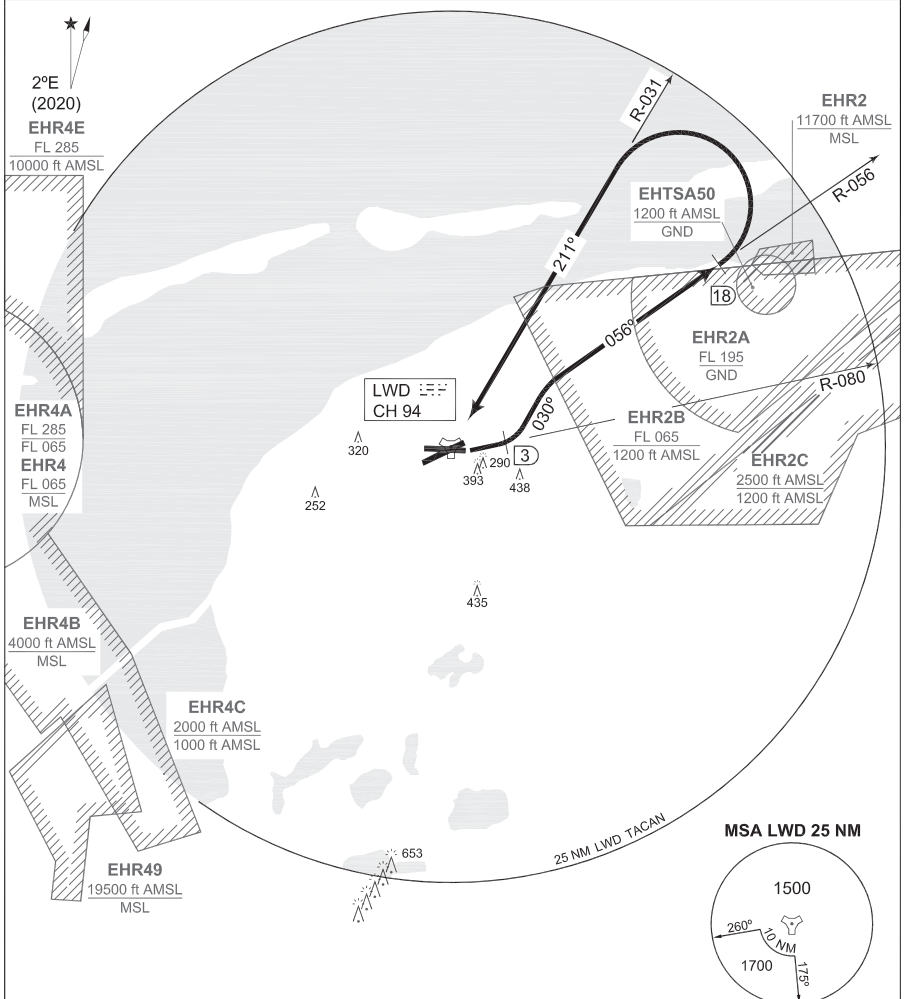
53°13.52'N
005°45.15'E

LEEWARDEN (EHLW)

**TERPS
INSTRUMENT DEPARTURE CHART**

**LW7
LEEWARDEN (EHLW)**

GND CTL 362.525	LEEWARDEN TWR 344.850 120.705	RAPCON NORTH 284.475 132.030		DUTCH MIL 259.250 128.355					
		RWY 09	Knots V/V (fpm)	120 750	180 1125	240 1500	300 1875	360 2250	to 1000 ft



EMERG SAFE ALT 100 NM 2300 **TA 3000**

<p>LEEWARDEN 7 (RWY 09)</p>	<ul style="list-style-type: none"> - After take-off intercept R-080 outbound Leeuwarden TACAN. - At 3 DME turn left heading 030° to intercept R-056 Leeuwarden TACAN. - At 18 DME turn left to intercept R-031 inbound Leeuwarden TACAN.
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CHANGES: MSA

RNLAF 23 MAR 2023

LW7 53°13.52'N
005°45.15'W **LEEWARDEN (EHLW)**



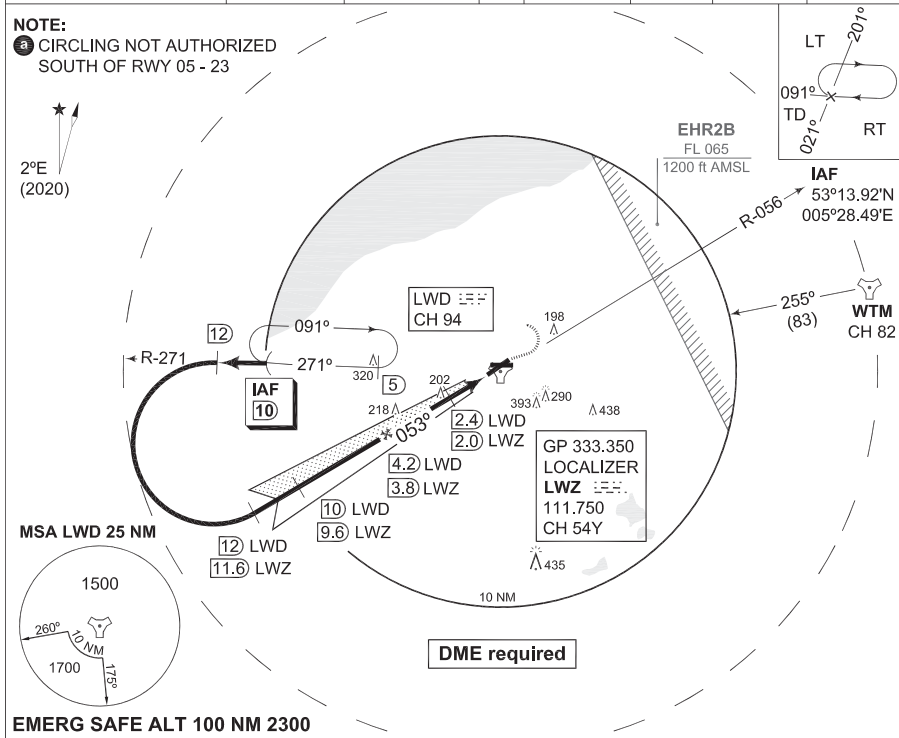
MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 05
LEEUWARDEN (EHLW)

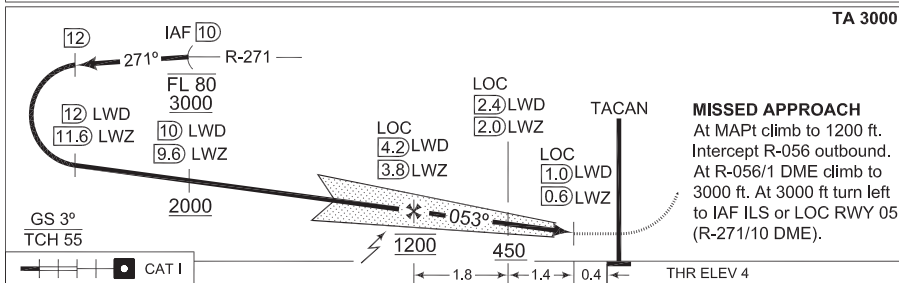
DUTCH MIL 259.250 128.355	RAPCON NORTH 284.475 132.030	LEEUWARDEN TWR 344.850 120.705	GND CTL 362.525
LOCALIZER / DME LWZ 111.750 / CH 54Y	APP COURSE 053°	GS INTCEPT ALT 1200 FT	GS 3° DA SEE CAT
THR ELEV 4	ALS 660 m	LDA 8036 FT	

NOTE:

- (a) CIRCLING NOT AUTHORIZED SOUTH OF RWY 05 - 23



TA 3000



CATEGORY	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
	A	B	C	D	E
S-ILS 05	204-800 200 (200-0.8/1.6)	208-800 204 (300-0.8/1.6)	218-800 214 (300-0.8/1.6)	227-800 223 (300-0.8/1.6)	246-800 242 (300-0.8/1.6)
S-LOC 05	350-800 346 (400-0.8/1.6)		350-1200 346 (400-1.2/1.6)	350-1200 346 (400-1.2/2.0)	
CIRCLING (a)	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

ILS or LOC RWY 05

53°13.52'N
005°45.15'E
21-6

LEEUWARDEN (EHLW)

CHANGES: MSA

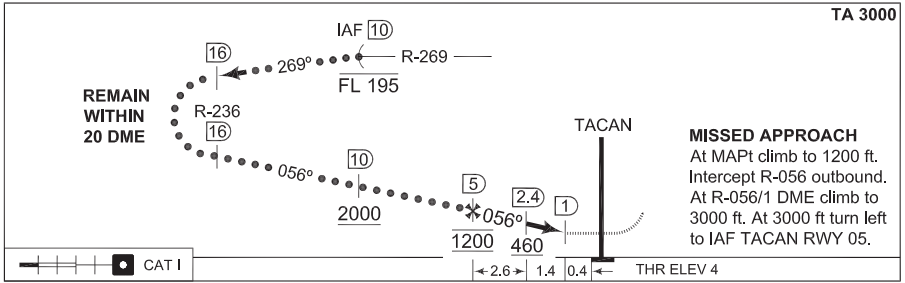
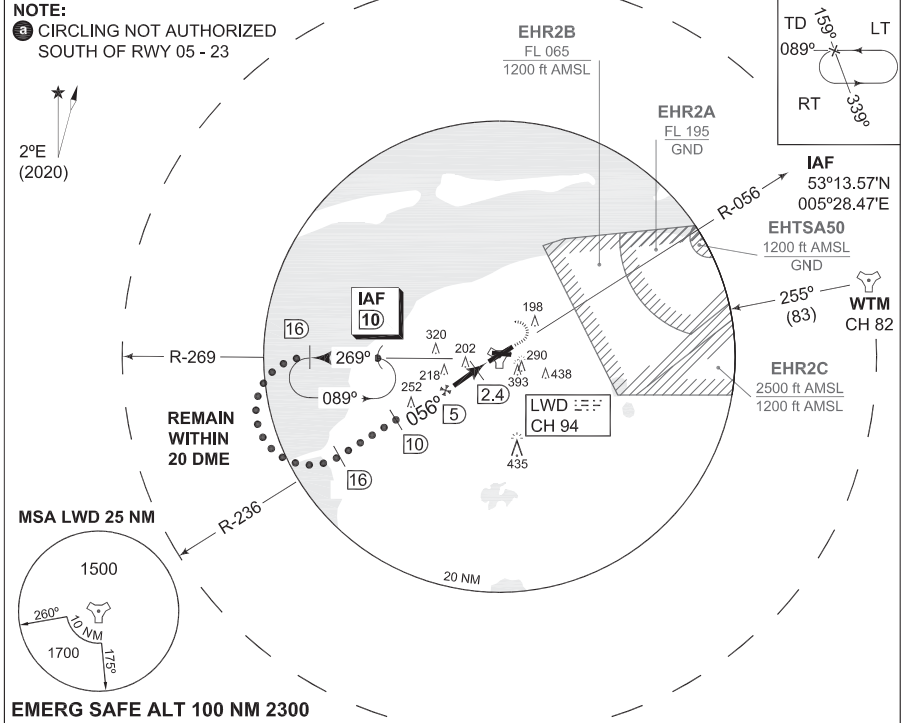
RN IAF 23 MAR 2023

MIPS
INSTRUMENT APPROACH CHART

HI-TACAN RWY 05
LEEWARDEN (EHLW)

AD ELEV 4

DUTCH MIL 259.250 128.355		RAPCON NORTH 284.475 132.030		LEEWARDEN TWR 344.850 120.705		GND CTL 362.525	
TACAN LWD CH 94	APP COURSE 056°	FAF ALT 1200 FT	Descent GR	MDA 380	THR ELEV 4	ALS 660 m	LDA 8036 FT



CATEGORY	C		D	E
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1			
S-TACAN 05	380 -1200 376 (400-1.2/1.6)		380 -1200 376 (400-1.2/2.0)	
CIRCLING a	610 -3700 606 (700-3.7)		720 -4600 716 (800-4.6) 820 -6500 816 (900-6.5)	

HI-TACAN RWY 05

53°13.52'N
005°45.15'E
21-7

LEEWARDEN (EHLW)

CHANGES: MSA
MIPS

RNLAF 23 MAR 2023

EHLW

MIPS
INSTRUMENT APPROACH CHART

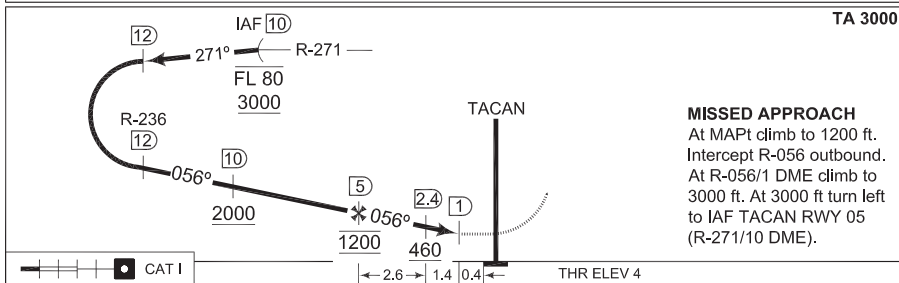
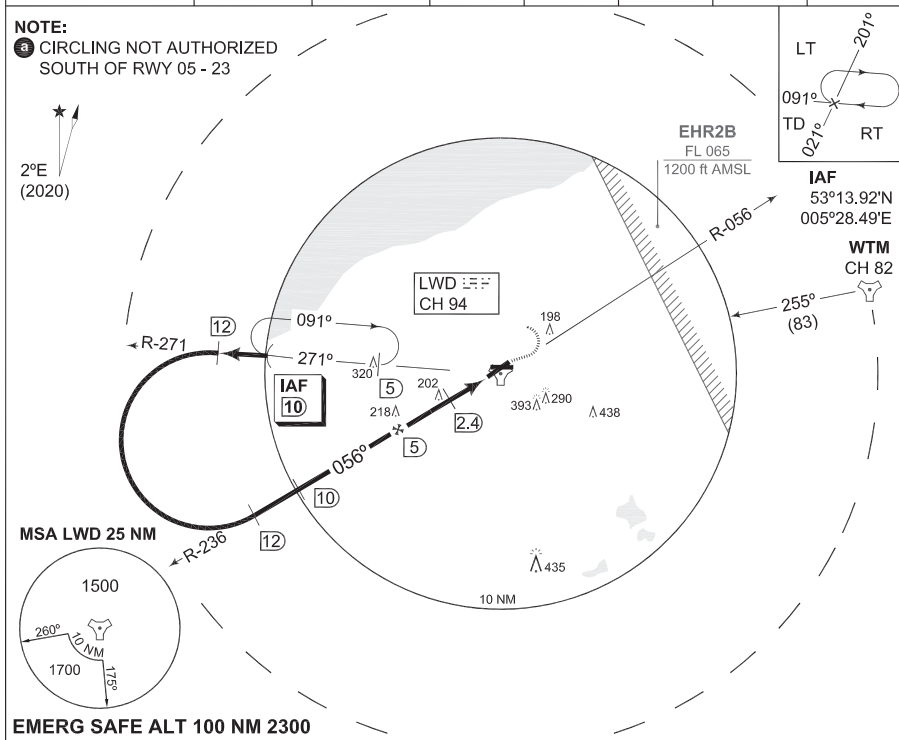
TACAN RWY 05
LEEWARDEN (EHLW)

AD ELEV 4

DUTCH MIL 259.250 128.355		RAPCON NORTH 284.475 132.030		LEEWARDEN TWR 344.850 120.705		GND CTL 362.525	
TACAN LWD CH 94	APP COURSE 056°	FAF ALT 1200 FT	Descent GR	MDA 380	THR ELEV 4	ALS 660 m	LDA 8036 FT

NOTE:

a CIRCLING NOT AUTHORIZED SOUTH OF RWY 05 - 23



CATEGORY	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
	A	B	C	D	E
S-TACAN 05	380-800 376 (400-0.8/1.6)		380-1200 376 (400-1.2/1.6)	380-1200 376 (400-1.2/2.0)	
CIRCLING a	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

TACAN RWY 05

53°13.52'N
005°45.15'E

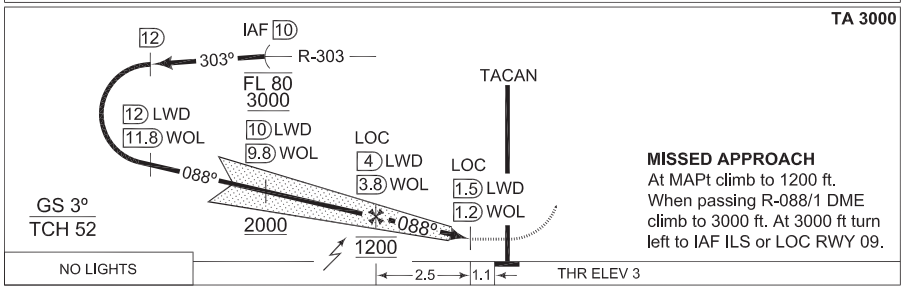
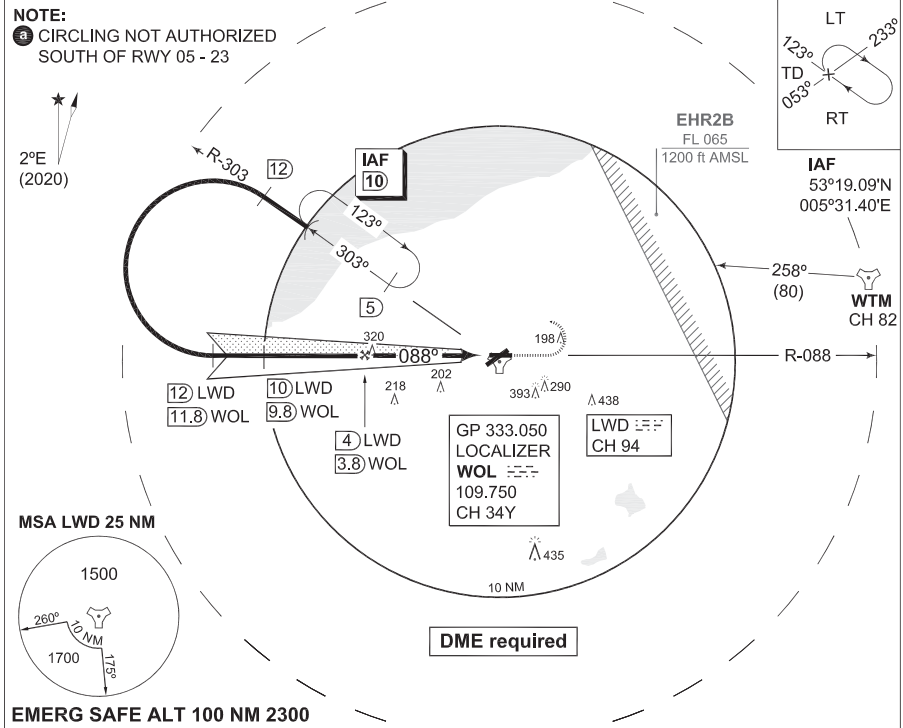
LEEWARDEN (EHLW)

MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 09
LEEUWARDEN (EHLW)

AD ELEV 4

DUTCH MIL 259.250 128.355	RAPCON NORTH 284.475 132.030	LEEUWARDEN TWR 344.850 120.705	GND CTL 362.525
LOCALIZER / DME WOL 109.750 / CH 34Y	APP COURSE 088°	GS INTCEPT ALT 1200 FT	GS 3°
		DA SEE CAT	THR ELEV 3
			ALS -
			LDA 6368 FT



CATEGORY	MINIMA ACCORDING TO PANS-OPS: NOT ACCORDING TO APATC-1					
	A	B	C	D	E	H
S-ILS 09	221-1600 218 (300-1.6/1.6)	231-1600 228 (300-1.6/1.6)	240-1600 237 (300-1.6/1.6)	250-1600 247 (300-1.6/1.6)	268-1600 265 (300-1.6/1.6)	205-800 202 (300-0.8/0.8)
S-LOC 09	430-1600 427 (500-1.6/1.6)	510-2800 506 (600-2.8)	430-2000 427 (500-2.0/2.0)	430-2400 427 (500-2.4/2.4)	820-6500 816 (900-6.5)	430-800 427 (500-0.8/0.8)
CIRCLING a	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)	N.A.

ILS or LOC RWY 09

53°13.52'N
005°45.15'E

LEEUWARDEN (EHLW)

CHANGES: MSA
MIPS

RNLAF 23 MAR 2023

EHLW

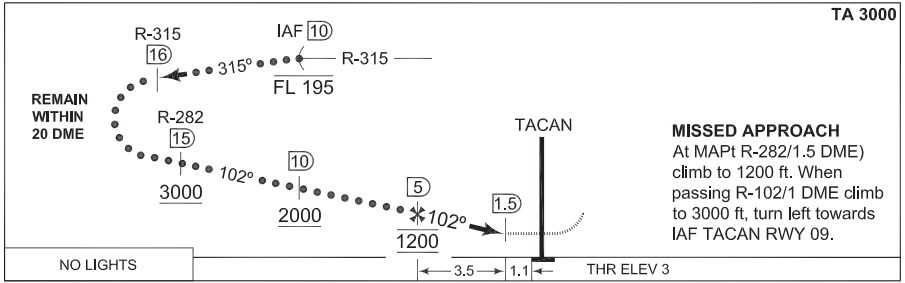
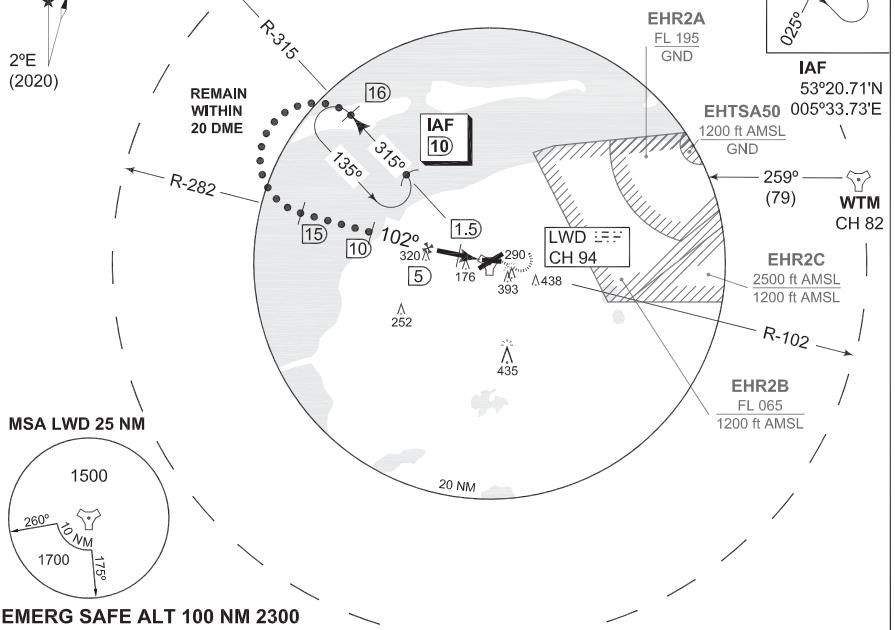
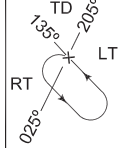
MIPS INSTRUMENT APPROACH CHART

HI-TACAN RWY 09 LEEUWARDEN (EHLW)

AD ELEV 4

DUTCH MIL 259.250 128.355		RAPCON NORTH 284.475 132.030		LEEUWARDEN TWR 344.850 120.705		GND CTL 362.525	
TACAN LWD CH 94	APP COURSE 102°	FAF ALT 1200 FT	Descent GR	MDA 440	THR ELEV 3	ALS -	LDA 6368 FT

NOTE:
 a CIRCLING NOT AUTHORIZED SOUTH OF RWY 05 - 23



CATEGORY	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1	
	C	D
S-TACAN 09	440-2000 437 (500-2.0/2.0)	440-2400 437 (500-2.4/2.4)
CIRCLING a	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)
		820-6500 816 (900-6.5)

HI-TACAN RWY 09

53°13.52'N
 005°45.15'E
 21-1

LEEUWARDEN (EHLW)

CHANGES: MSA
 MIPS

RNLAF 23 MAR 2023

MIPS
INSTRUMENT APPROACH CHART

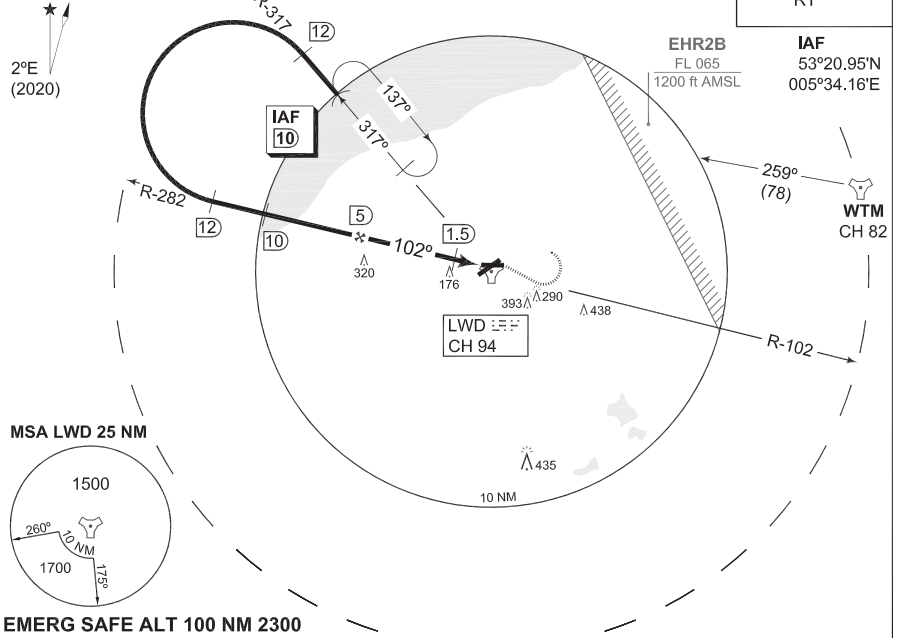
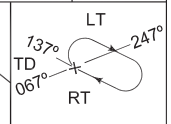
TACAN RWY 09
LEEUWARDEN (EHLW)

AD ELEV 4

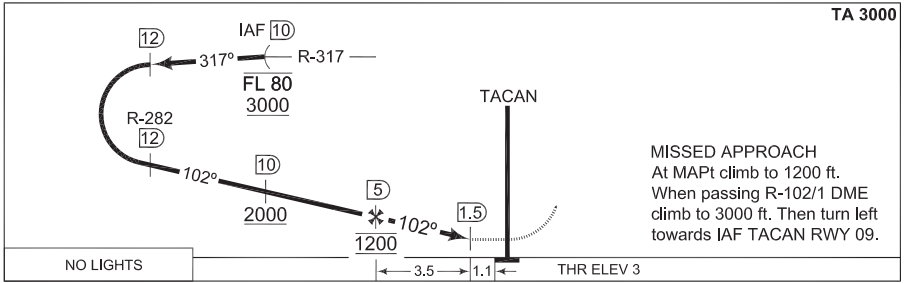
DUTCH MIL 259.250 128.355		RAPCON NORTH 284.475 132.030		LEEUWARDEN TWR 344.850 120.705			GND CTL 362.525	
TACAN LWD CH 94	APP COURSE 102°	FAF ALT 1200 FT	Descent GR	MDA 440	THR ELEV 3	ALS -	LDA 6368 FT	

NOTE:

a CIRCLING NOT AUTHORIZED SOUTH OF RWY 05 - 23



EMERG SAFE ALT 100 NM 2300



TA 3000

MISSED APPROACH
At MAPt climb to 1200 ft. When passing R-102/1 DME climb to 3000 ft. Then turn left towards IAF TACAN RWY 09.

CATEGORY	MINIMA ACCORDING TO PANS-OPS: NOT ACCORDING TO APATC-1				
	A	B	C	D	E
S-TACAN 09	440 -1600 437 (500-1.6/1.6)		440 -2000 437 (500-2.0/2.0)	440 -2400 437 (500-2.4/2.4)	
CIRCLING a	500 -1900 496 (500-1.9)	510 -2800 506 (600-2.8)	610 -3700 606 (700-3.7)	720 -4600 716 (800-4.6)	820 -6500 816 (900-6.5)

TACAN RWY 09

53°13.52'N
005°45.15'E
21-11

LEEUWARDEN (EHLW)

CHANGES: MSA

MIPS

RNLAF 23 MAR 2023

EHLW

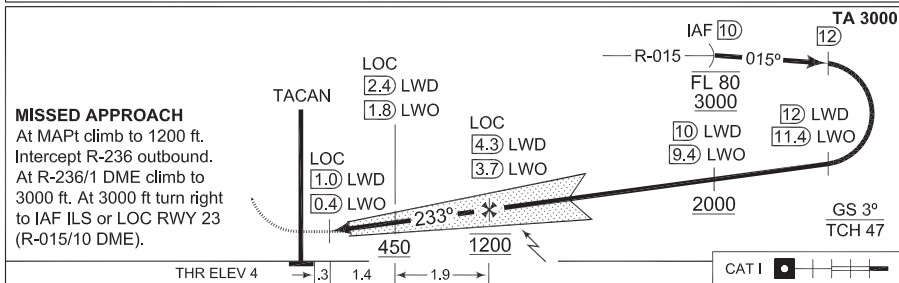
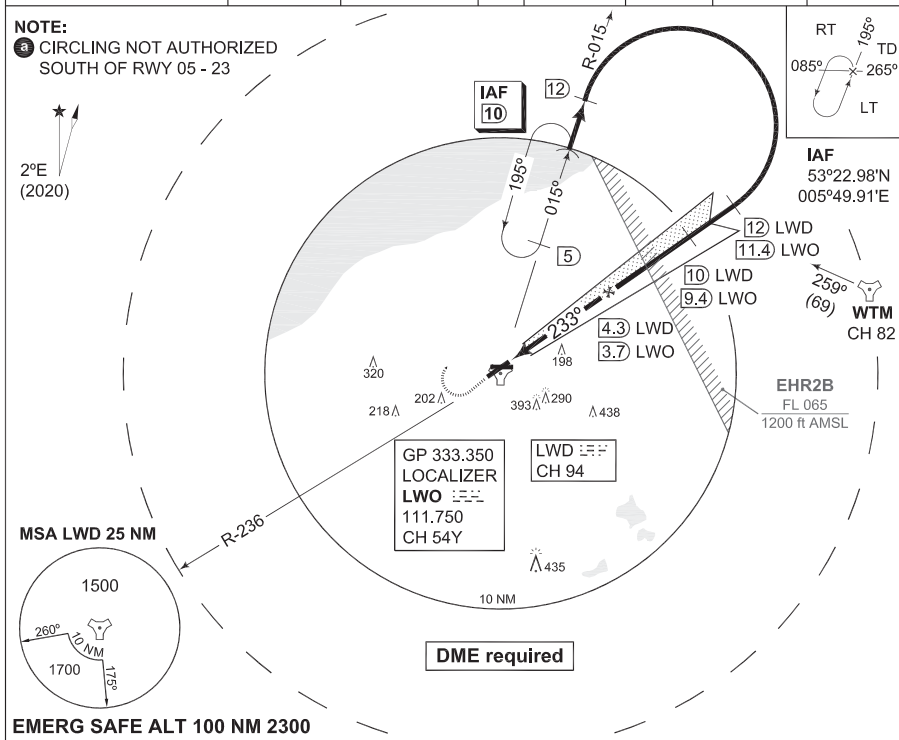
MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 23
LEEUWARDEN (EHLW)

DUTCH MIL 259.250 128.355	RAPCON NORTH 284.475 132.030	LEEUWARDEN TWR 344.850 120.705	GND CTL 362.525
LOCALIZER / DME LWO 111.750 / CH 54Y	APP COURSE 233°	GS INTCEPT ALT 1200 FT	GS 3° DA SEE CAT THR ELEV 4
ALS 720 m		LDA 7863 FT	

NOTE:

(a) CIRCLING NOT AUTHORIZED SOUTH OF RWY 05 - 23



CATEGORY	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
	A	B	C	D	E
S-ILS 23	217-800 213 (300-0.8/1.6)	227-800 223 (300-0.8/1.6)	237-800 233 (300-0.8/1.6)	247-800 243 (300-0.8/1.6)	265-800 262 (300-0.8/1.6)
S-LOC 23	340-800 336 (400-0.8/1.6)		340-1200 336 (400-1.2/1.6)	340-1200 336 (400-1.2/2.0)	
CIRCLING (a)	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

ILS or LOC RWY 23

53°13.52'N
005°45.15'E
21-12

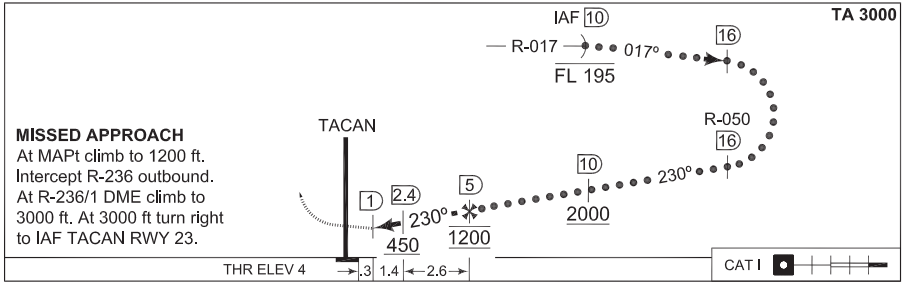
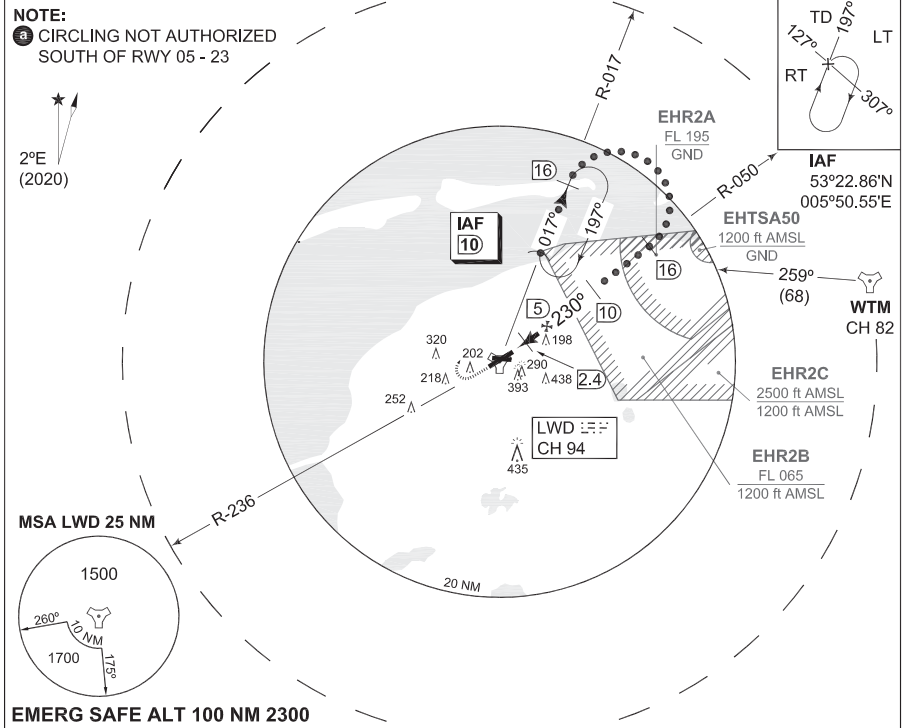
LEEUWARDEN (EHLW)

MIPS
INSTRUMENT APPROACH CHART

HI-TACAN RWY 23
LEEUWARDEN (EHLW)

AD ELEV 4

DUTCH MIL 259.250 128.355		RAPCON NORTH 284.475 132.030		LEEUWARDEN TWR 344.850 120.705		GND CTL 362.525	
TACAN LWD CH 94	APP COURSE 230°	FAF ALT 1200 FT	Descent GR	MDA 380	THR ELEV 4	ALS 720 m	LDA 7863 FT



CATEGORY	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1		
	C	D	E
S-TACAN 23	380-1200 376 (400-1.2/1.6)	380-1200 376 (400-1.2/2.0)	
CIRCLING a	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

HI-TACAN RWY 23

53°13.52'N
005°45.15'E
21-13

LEEUWARDEN (EHLW)

CHANGES: MSA

MIPS

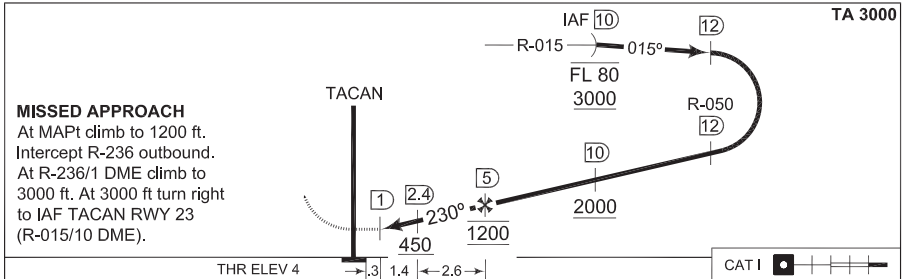
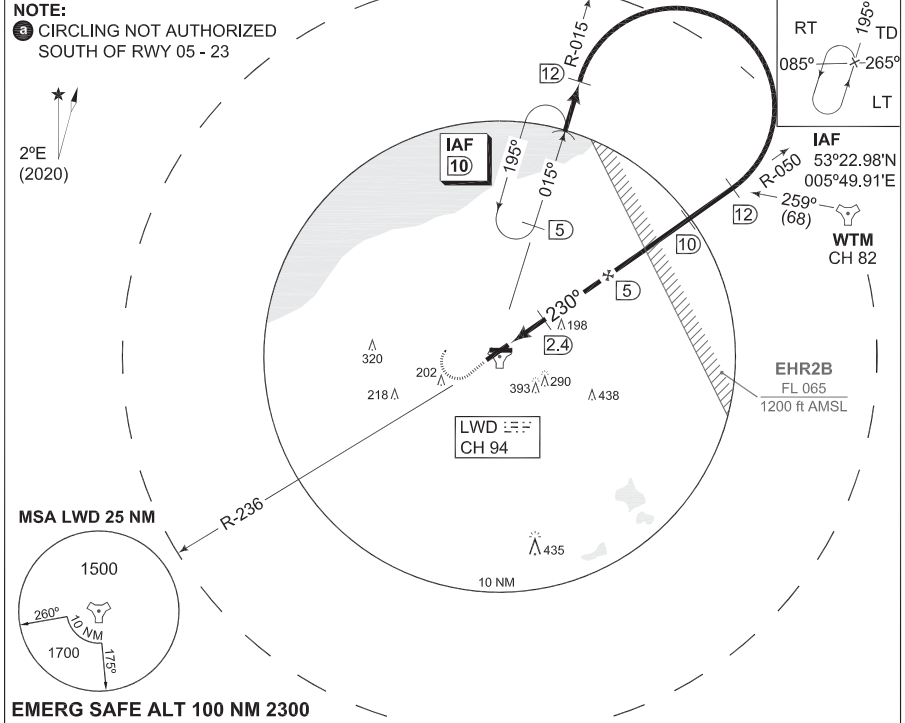
RNLAF 23 MAR 2023

EHLW

MIPS INSTRUMENT APPROACH CHART

TACAN RWY 23 LEEUWARDEN (EHLW)

DUTCH MIL 259.250 128.355		RAPCON NORTH 284.475 132.030		LEEUWARDEN TWR 344.850 120.705		GND CTL 362.525	
TACAN LWD CH 94	APP COURSE 230°	FAF ALT 1200 FT	Descent GR	MDA 380	THR ELEV 4	ALS 720 m	LDA 7863 FT



CATEGORY	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
	A	B	C	D	E
S-TACAN 23	380 -800 376 (400-0.8/1.6)		380 -1200 376 (400-1.2/1.6)	380 -1200 376 (400-1.2/2.0)	
CIRCLING a	500 -1900 496 (500-1.9)	510 -2800 506 (600-2.8)	610 -3700 606 (700-3.7)	720 -4600 716 (800-4.6)	820 -6500 816 (900-6.5)

TACAN RWY 23

53°13.52'N
005°45.15'E

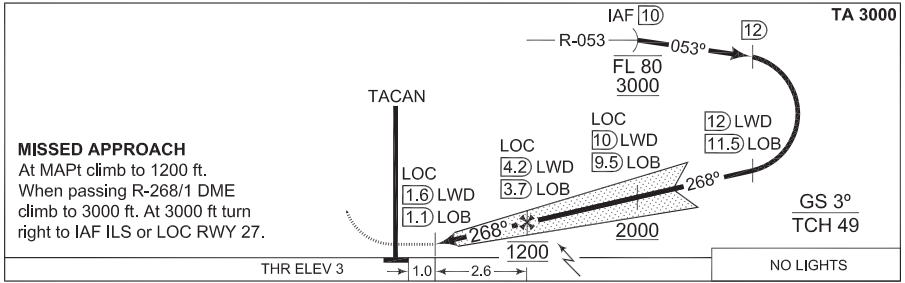
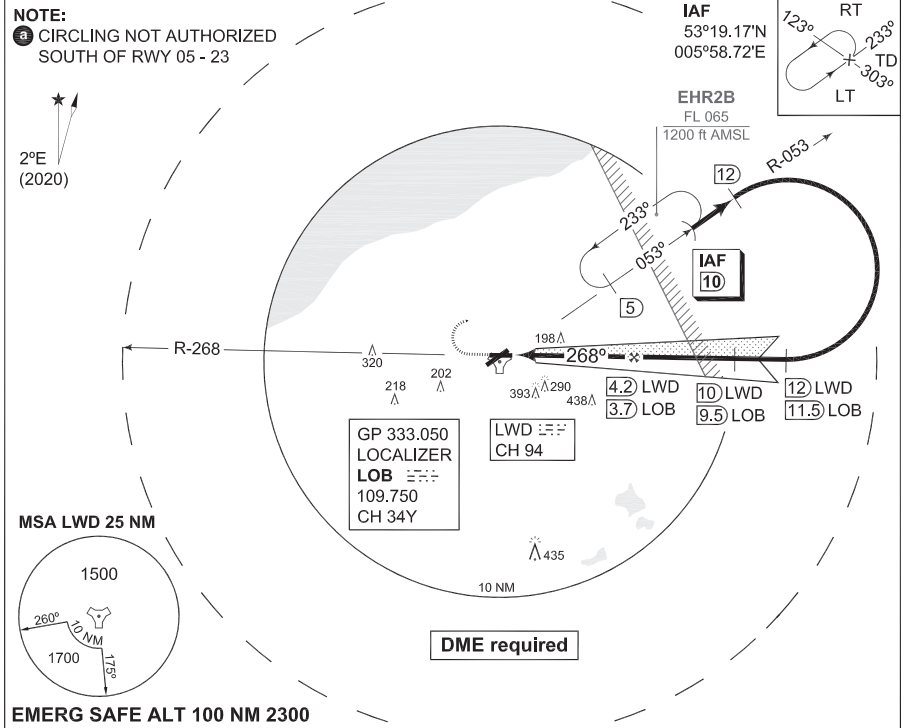
LEEUWARDEN (EHLW)

MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 27
LEEUWARDEN (EHLW)

AD ELEV 4

DUTCH MIL 259.250 128.355	RAPCON NORTH 284.475 132.030	LEEUWARDEN TWR 344.850 120.705	GND CTL 362.525
LOCALIZER / DME LOB 109.750 / CH 34Y	APP COURSE 268°	GS INTCEPT ALT 1200 FT	GS 3° DA SEE CAT THR ELEV 3
ALS -		LDA 6561 FT	



CATEGORY	A	B	C	D	E	H
MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1						
S-ILS 27	203-1600 200 (200-1.6/1.6)	211-1600 208 (300-1.6/1.6)	220-1600 217 (300-1.6/1.6)	230-1600 227 (300-1.6/1.6)	240-1600 237 (300-1.6/1.6)	203-800 200 (200-0.8/0.8)
S-LOC 27	360-1600 357 (400-1.6/1.6)			360-2000 357 (400-2.0/2.0)		360-800 357 (400-0.8/0.8)
CIRCLING a	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)	N.A.

ILS or LOC RWY 27

53°13.52'N
005°45.15'E
21-15

LEEUWARDEN (EHLW)

CHANGES: MSA
MIPS

RNLAF 23 MAR 2023

EHLW

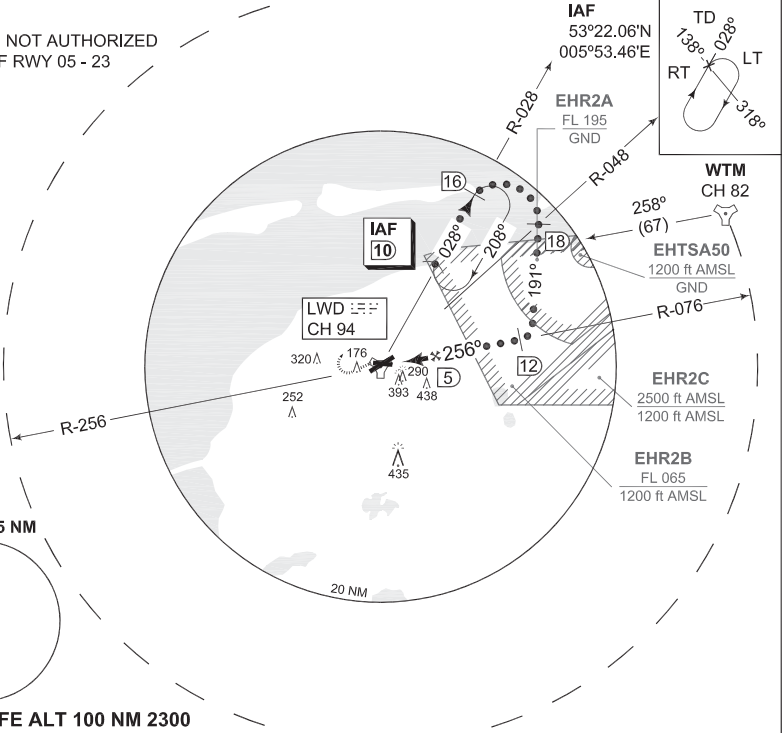
MIPS
INSTRUMENT APPROACH CHART

HI-TACAN RWY 27
LEEUWARDEN (EHLW)

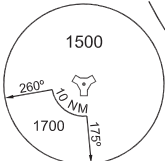
AD ELEV 4

DUTCH MIL 259.250 128.355		RAPCON NORTH 284.475 132.030		LEEUWARDEN TWR 344.850 120.705		GND CTL 362.525	
TACAN LWD CH 94	APP COURSE 256°	FAF ALT 1200 FT	Descent GR	MDA 390	THR ELEV 3	ALS -	LDA 6561 FT

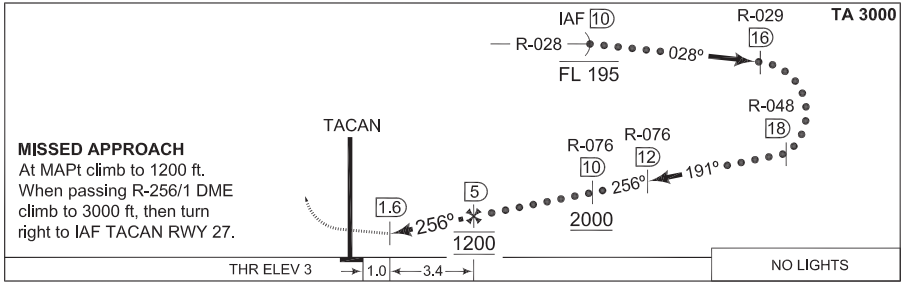
NOTE:
a CIRCLING NOT AUTHORIZED
SOUTH OF RWY 05 - 23



MSA LWD 25 NM



EMERG SAFE ALT 100 NM 2300



MISSED APPROACH
At MAPt climb to 1200 ft.
When passing R-256/1 DME
climb to 3000 ft, then turn
right to IAF TACAN RWY 27.

CATEGORY	C		D		E	
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1					
S-TACAN 27	390 -1600 387 (400-1.6/1.6)		390 -2000 387 (400-2.0/2.0)			
CIRCLING a	610 -3700 606 (700-3.7)		720 -4600 716 (800-4.6)		820 -6500 816 (900-6.5)	

HI-TACAN RWY 27

53°13.52'N
005°45.15'E
21-16

LEEUWARDEN (EHLW)

CHANGES: MSA
MIPS

RNLAF 23 MAR 2023

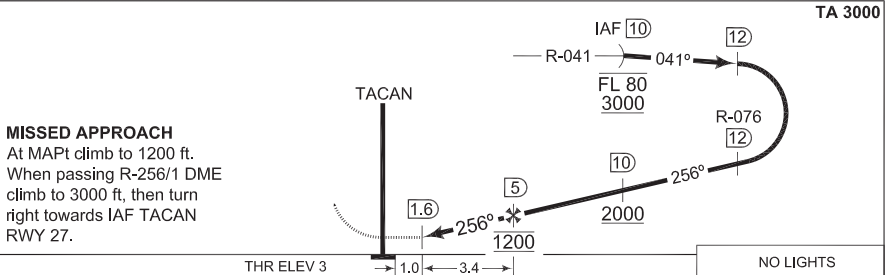
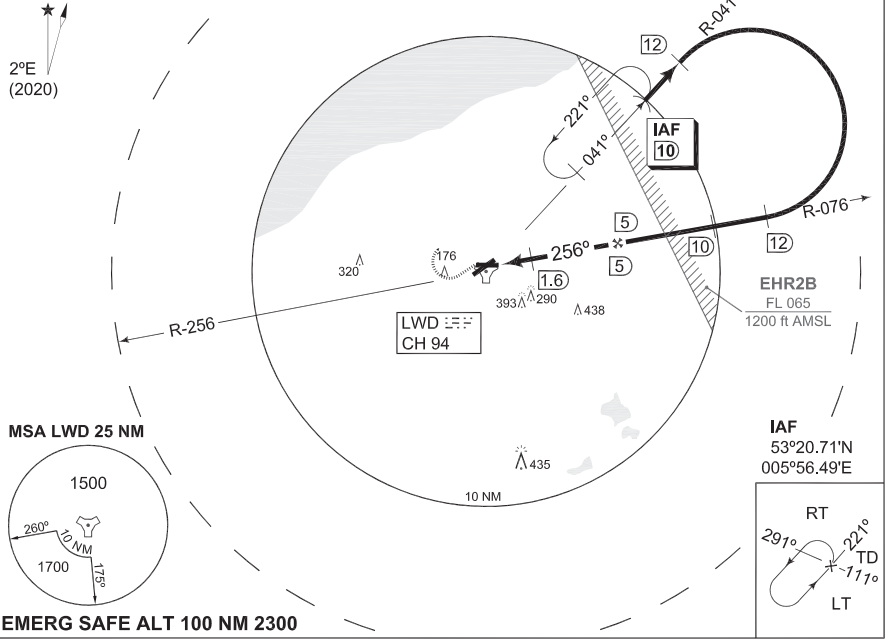
MIPS INSTRUMENT APPROACH CHART

TACAN RWY 27 LEEUWARDEN (EHLW)

AD ELEV 4

DUTCH MIL 259.250 128.355	RAPCON NORTH 284.475 132.030	LEEUWARDEN TWR 344.850 120.705	GND CTL 362.525				
TACAN LWD CH 94	APP COURSE 256°	FAF ALT 1200 FT	Descent GR	MDA 390	THR ELEV 3	ALS -	LDA 6561 FT

NOTE:
 a CIRCLING NOT AUTHORIZED SOUTH OF RWY 05 - 23



CATEGORY	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
	A	B	C	D	E
S-TACAN 27	390-1600 387 (400-1.6/1.6)			390-2000 387 (400-2.0/2.0)	
CIRCLING a	500-1900 496 (500-1.9)	510-2800 506 (600-2.8)	610-3700 606 (700-3.7)	720-4600 716 (800-4.6)	820-6500 816 (900-6.5)

TACAN RWY 27

53°13.52'N
005°45.15'E

LEEUWARDEN (EHLW)

21-17



CHANGES: MSA

RNLAF 23 MAR 2023

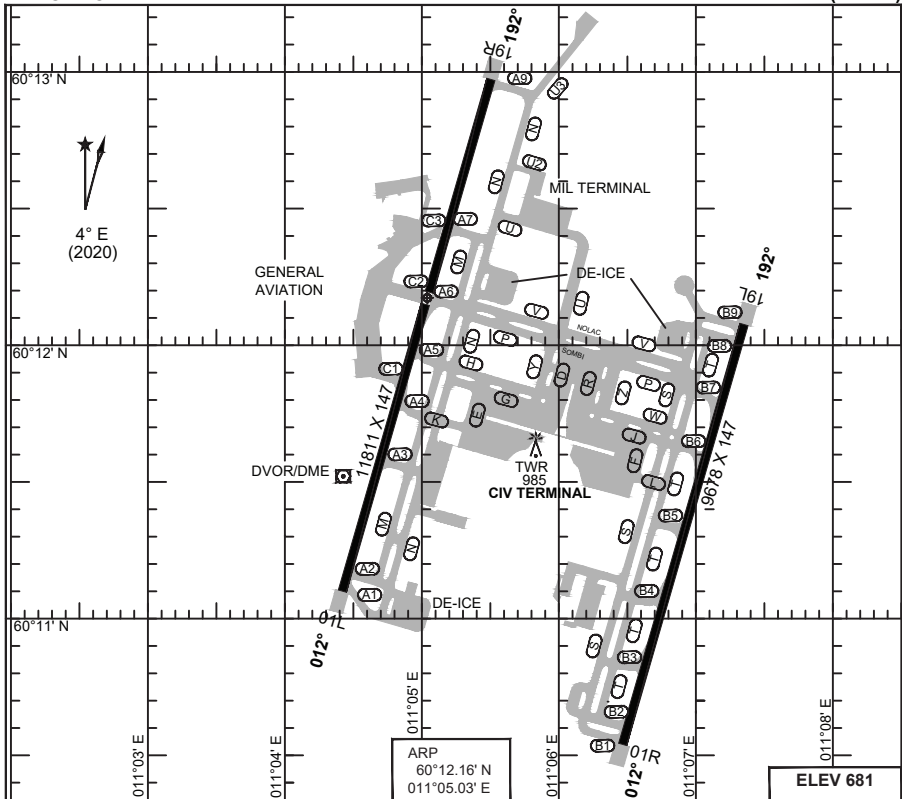
INTENTIONALLY

LEFT

BLANK

AERODROME CHART

GARDERMOEN (ENGM)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	ALS	TDZE	THR	PSN
01L	75 F/A/W/T	11811	11811	11811	11811	3.0°	BP	656		60°11.10' N - 011°04.42' E
19R	75 F/A/W/T	11811	11811	11811	11811	3.0°	BN	675		60°12.60' N - 011°05.50' E
01R	75 F/A/W/T	9678	9678	9678	9678	3.0°	BN	670		60°10.55' N - 011°06.47' E
19L	75 F/A/W/T	9678	9678	10990	9678	3.0°	BP	681		60°12.07' N - 011°07.35' E

ATIS - DEP 127.150
 ATIS - ARR 126.125
 GARDERMOEN DELIVERY DLV WEST 121.680
 DLV EAST 121.930
 GARDERMOEN GROUND GND WEST 121.605 337.975
 GND EAST 121.905 337.975
 DE-ICE COORDINATOR 121.855
 GARDERMOEN TOWER SECTOR WEST INCL ILS 01L/19R 118.300 257.800
 SECTOR EAST INCL ILS 01R/19L 120.100 257.800
 GARDERMOEN OPS (MIL) 123.275 362.800

CHANGES: MAGVARI, RWY COURSES, FRQ, EDITORIAL

RNOAF-25 MAR 2021

AERODROME CHART

GARDERMOEN (ENGM)

MIPS
INSTRUMENT APPROACH CHART

AD ELEV 681

HPMA ILS or LOC RWY 01L
GARDERMOEN (ENGM)

ATIS	OSLO APP	DIRECTOR	FINAL	GARDERMOEN TWR		GROUND	
126.125	W 120.450 E 118.475	136.400	128.900	W 118.300	E 120.100	W 121.605	E 121.905
LOCALIZER/DME		APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS LDA
OBW 110.300 / CH40X		012°	3500	3.0°	856	656	670 m 11811

CAUTION:

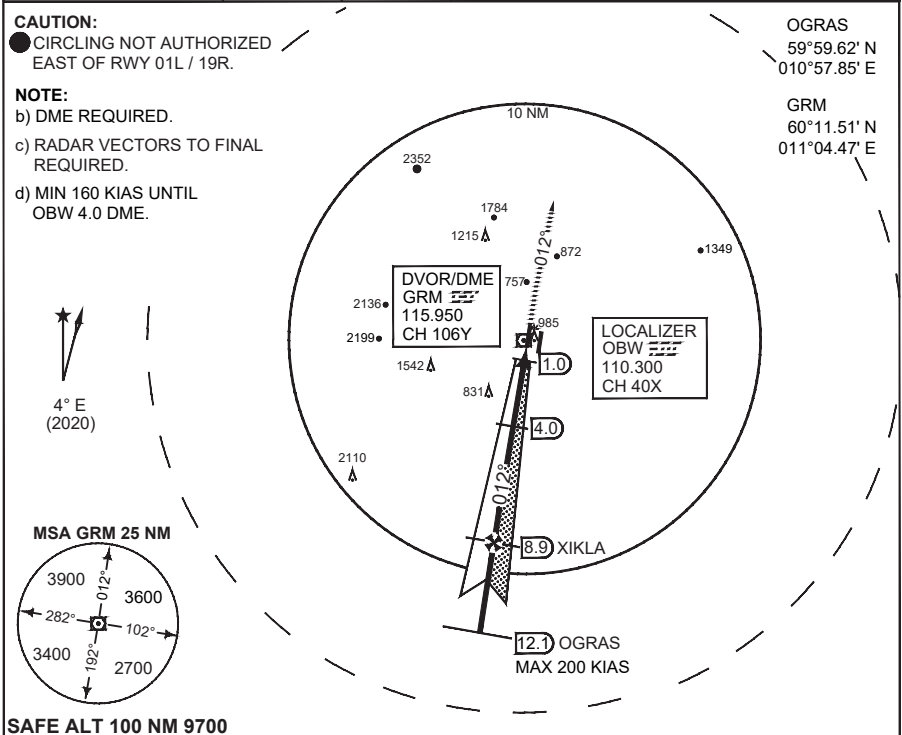
- CIRCLING NOT AUTHORIZED EAST OF RWY 01L / 19R.

NOTE:

- b) DME REQUIRED.
- c) RADAR VECTORS TO FINAL REQUIRED.
- d) MIN 160 KIAS UNTIL OBW 4.0 DME.

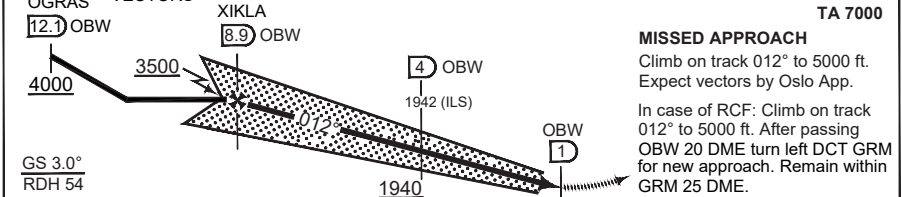
OGRAS
59°59.62' N
010°57.85' E

GRM
60°11.51' N
011°04.47' E



SAFE ALT 100 NM 9700

DME OBW	8	7	6	5	4	3	2
ALT	3210	2890	2570	2250	1940	1620	1300



MISSED APPROACH

Climb on track 012° to 5000 ft. Expect vectors by Oslo App.

In case of RCF: Climb on track 012° to 5000 ft. After passing OBW 20 DME turn left DCT GRM for new approach. Remain within GRM 25 DME.

CAT 3	8.8	THR ELEV 656
-------	-----	--------------

CATEGORY		HPMA	
MIPS	S-ILS 01L	856-800	200 (200-0.8/1.2)
	S-LOC 01L	960	-1200 304 (400-1.2/1.6)
	● CIRCLING	2040	-3.2 1359 (1400-3.2)

HPMA ILS or LOC RWY 01L

60°12.16' N
011°05.03' E
22-2

GARDERMOEN (ENGM)

CHANGES: MSA

RNOAF 16 JUN 2022

MIPS INSTRUMENT APPROACH CHART

AD ELEV 681

HPMA ILS or LOC RWY 01R GARDERMOEN (ENGM)

ATIS	OSLO APP	DIRECTOR	FINAL	GARDERMOEN TWR			GROUND	
126.125	W 120.450 E 118.475	136.400	128.900	W 118.300	E 120.100	W 121.605	E 121.905	
LOCALIZER/DME	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS	LDA	
ONE 111.950 / CH56Y	012°	3500	3.0°	880	670	880 m	9678	

CAUTION:

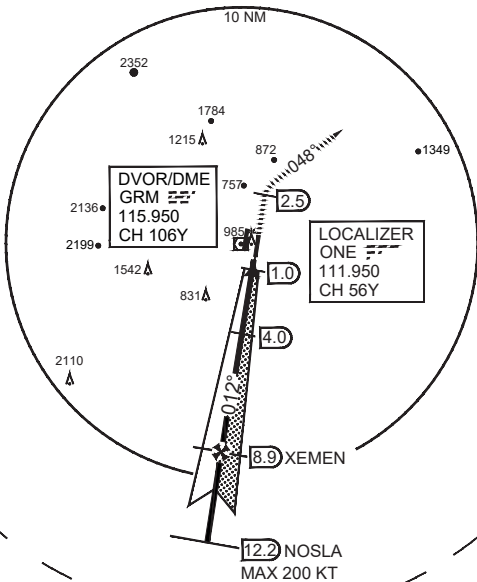
● CIRCLING NOT AUTHORIZED WEST OF RWY 01R / 19L.

NOTE:

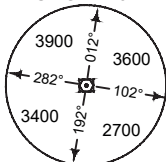
- b) DME REQUIRED.
- c) RADAR VECTORS TO FINAL REQUIRED.
- d) MIN 160 KIAS UNTIL ONE 4.0 DME.

NOSLA
59°59.02' N
010°59.85' E

GRM
60°11.51' N
011°04.47' E

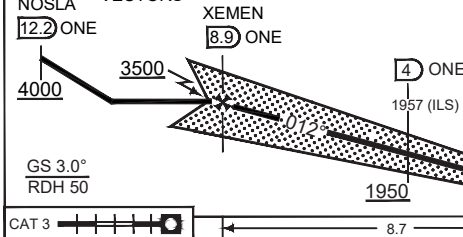


MSA GRM 25 NM



SAFE ALT 100 NM 9700

	DME ONE	8	7	6	5	4	3	2
NOSLA	ALT	3220	2900	2590	2270	1950	1630	1310



MISSED APPROACH TA 7000

Climb on track 012° to DME 2.5 after ONE. Turn right (MAX 265 KIAS) and proceed on HDG 048° to 4000 ft. Expect vectors.

In case of RCF: Climb to 4000 ft on HDG 048°. After passing ONE 20 DME turn right DCT GRM for new approach. Remain within GRM 25 DME.

CAT 3	8.7	THR ELEV 670
-------	-----	--------------

CATEGORY	HPMA
S-ILS 01R	880 - 800 210 (300-0.8/1.2)
S-LOC 01R	970 -1200 300 (300-1.2/1.6)
● CIRCLING	1570 - 3.2 889 (900-3.2)

HPMA ILS or LOC RWY 01R

60°12.16' N
011°05.03' E

GARDERMOEN (ENGM)

MIPS INSTRUMENT APPROACH CHART

HPMA ILS or LOC RWY 19L GARDERMOEN (ENGM)

AD ELEV 681

ATIS	OSLO APP	DIRECTOR	FINAL	GARDERMOEN TWR		GROUND	
126.125	W 120.450 E 118.475	136.400	128.900	W 118.300	E 120.100	W 121.605	E 121.905
LOCALIZER/DME		APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS LDA
GME 110.550 / CH 42Y		192°	3500	3.0°	881	681	900 m 9678

CAUTION:

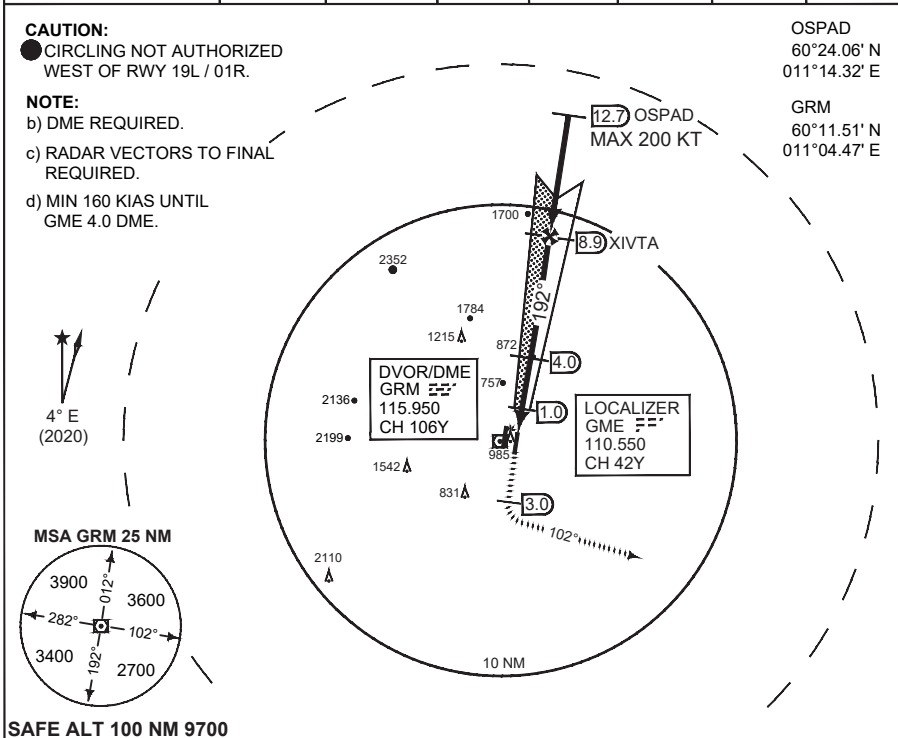
● CIRCLING NOT AUTHORIZED WEST OF RWY 19L / 01R.

NOTE:

- b) DME REQUIRED.
- c) RADAR VECTORS TO FINAL REQUIRED.
- d) MIN 160 KIAS UNTIL GME 4.0 DME.

OSPAD
60°24.06' N
011°14.32' E

GRM
60°11.51' N
011°04.47' E



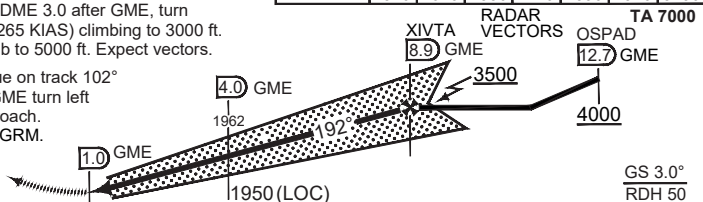
SAFE ALT 100 NM 9700

MISSED APPROACH

Climb on track 192°. At DME 3.0 after GME, turn left to track 102° (MAX 265 KIAS) climbing to 3000 ft. At DME 13.0 GME, climb to 5000 ft. Expect vectors.

In case of RCF: Continue on track 102° to 5000 ft. At DME 20 GME turn left DCT GRM for new approach. Remain within DME 25 GRM.

DME GME	2	3	4	5	6	7	8
ALT	1320	1640	1950	2270	2590	2910	3230



THR ELEV 681 8.7 CAT 3

CATEGORY	HPMA
S-ILS 19L	881 - 800 200 (200-0.8/1.2)
S-LOC 19L	1030 - 1200 349 (400-1.2/1.6)
● CIRCLING	1570 - 3.2 889 (900-3.2)

HPMA ILS or LOC RWY 19L

60°12.16' N
011°05.03' E

GARDERMOEN (ENGM)

MIPS INSTRUMENT APPROACH CHART

AD ELEV 681

HPMA ILS or LOC RWY 19R GARDERMOEN (ENGM)

ATIS	OSLO APP	DIRECTOR	FINAL	GARDERMOEN TWR	GROUND		
126.125	W 120.450 E 118.475	136.400	128.900	W 118.300 E 120.100	W 121.605 E 121.905		
LOCALIZER/DME	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS	LDA
GSW 111.300 / CH 50X	192°	3500	3.0°	875	675	900 m	11811

CAUTION:

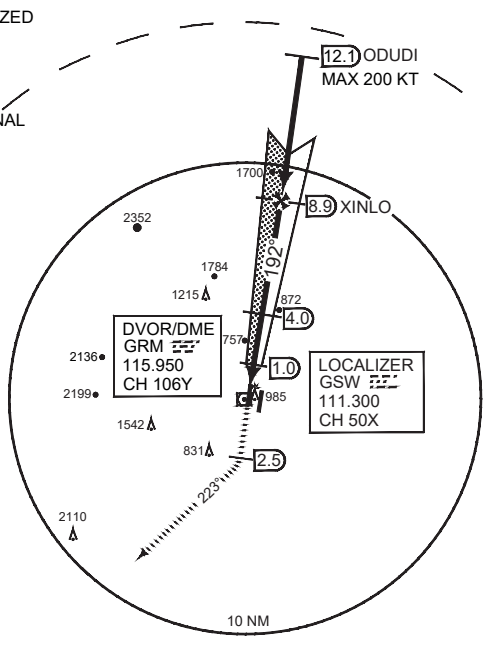
- CIRCLING NOT AUTHORIZED EAST OF RWY 19R / 01L.

NOTE:

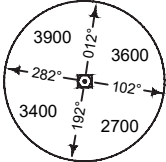
- b) DME REQUIRED.
- c) RADAR VECTORS TO FINAL REQUIRED.
- d) MIN 160 KIAS UNTIL GSW 4.0 DME.

ODUDI
60°24.37' N
010°12.11' E

GRM
60°11.51' N
011°04.47' E



MSA GRM 25 NM



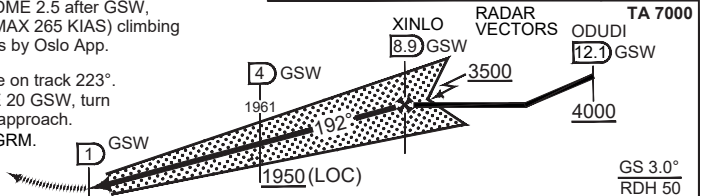
SAFE ALT 100 NM 9700

MISSED APPROACH

Climb on track 192°. At DME 2.5 after GSW, turn right to track 223° (MAX 265 KIAS) climbing to 5000 ft. Expect vectors by Oslo App.

In case of RCF: Continue on track 223°. Climb to 5000 ft. At DME 20 GSW, turn right DCT GRM for new approach. Remain within DME 25 GRM.

DME GSW	2	3	4	5	6	7	8
ALT	1320	1630	1950	2270	2590	2910	3230



THR ELEV 675

8.7



CATEGORY	HPMA	
S-ILS 19R	875	- 800 200 (200-0.8/1.2)
S-LOC 19R	1020	- 1200 345 (400-1.2/2.0)
● CIRCLING	1980	- 3.2 1299 (1300-3.2)

HPMA ILS or LOC RWY 19R

60°12.16' N
011°05.03' E

GARDERMOEN (ENGM)

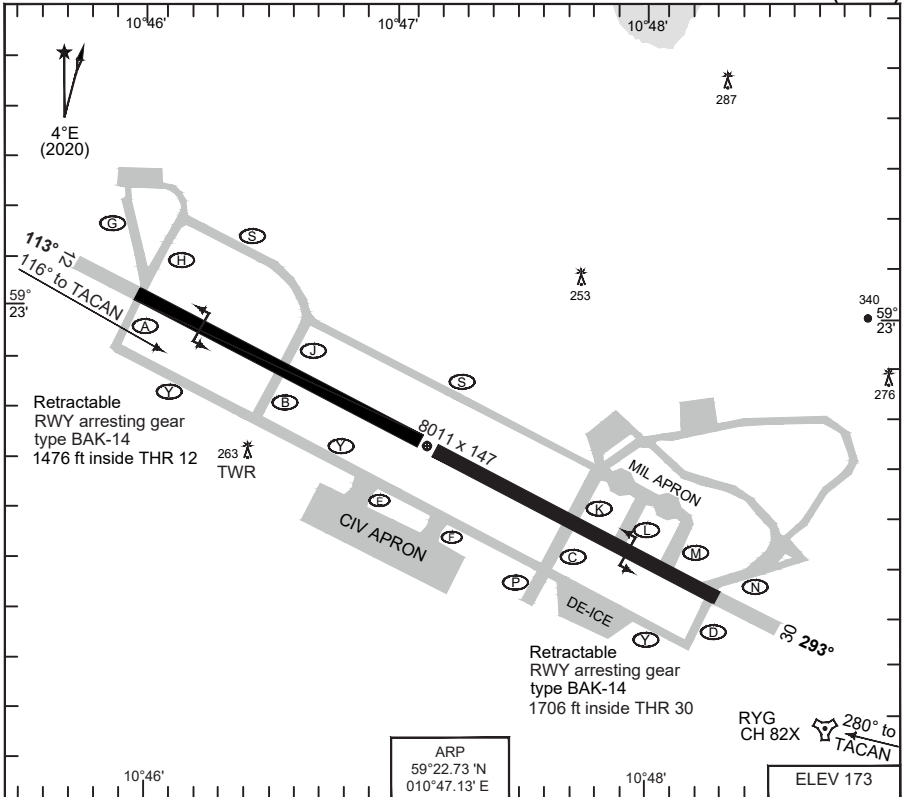
INTENTIONALLY

LEFT

BLANK

AERODROME CHART

RYGGE (ENRY)



RWY	PCN	TORA	ASDA	TODA	LDA		PAPI		THR ELEV	THR PSN
12	85 F/C/X/T	8011	8011	8822	8011		3.0°		168	59°23.02' N - 010°45.97' E
30	85 F/C/X/T	8011	8011	8208	8011		3.0°		169	59°22.43' N - 010°48.28' E

ATIS 136.175
 RYGGE GND 121.700
 RYGGE TWR 119.500 308.850 257.800

CHANGES: MAGYAR, EDITORIAL

RNOAF 24 FEB 2022

AERODROME CHART

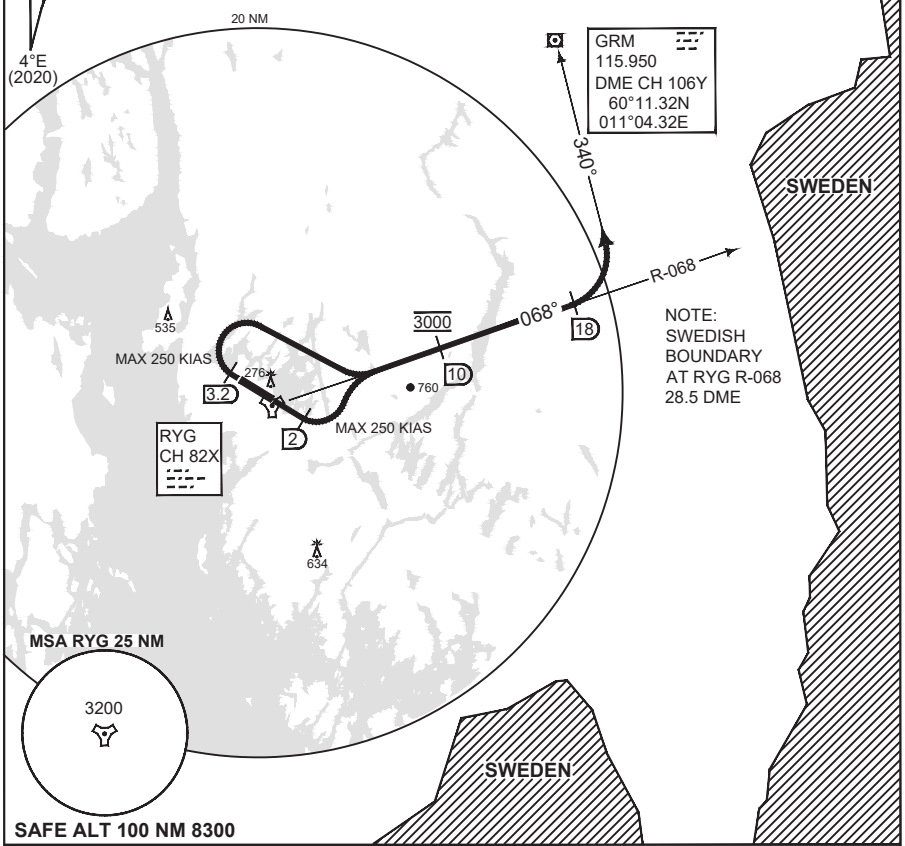
RYGGE (ENRY)



**MIPS
INSTRUMENT DEPARTURE CHART**

**SID EAST
RYGGE (ENRY)**

ATIS 136.175		RYGGE TWR 122.100 308.850				FARRIS APP E 124.350 W 134.050					
OSLO CONTROL EAST 125.050 279.000		AD ELEV 173	RWY 12	GS (kt) V/V (fpm)	FROM-TO DER-3000	60	120	180	240	300	REASON
			30	V/V (fpm)	DER-3000	340	680	1020	1360	1700	ATC



SAFE ALT 100 NM 8300		TA 7000
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SID EAST RWY 12	- Climb RWY track to 1000 ft or RYG 2 DME, whichever occurs first, then turn left to intercept R-068 outbound to 18 DME. Maximum 250 KIAS. Cross 10 DME at 3000 ft. Follow ATC instruction. - Minimum climb gradient 4.6% (2.7°) to 3000 ft.
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SID EAST RWY 30	- Climb RWY track to 1000 ft or RYG 3.2 DME, whichever occurs first, then turn right to intercept R-068 outbound to 18 DME. Maximum 250 KIAS. Cross 10 DME at 3000 ft. Follow ATC instruction. - Minimum climb gradient 5.5% (3.2°) to 3000 ft.
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CHANGES: EDITORIAL

RNOAF 16 JUN 2022

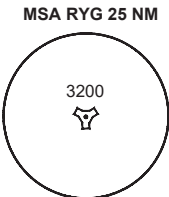
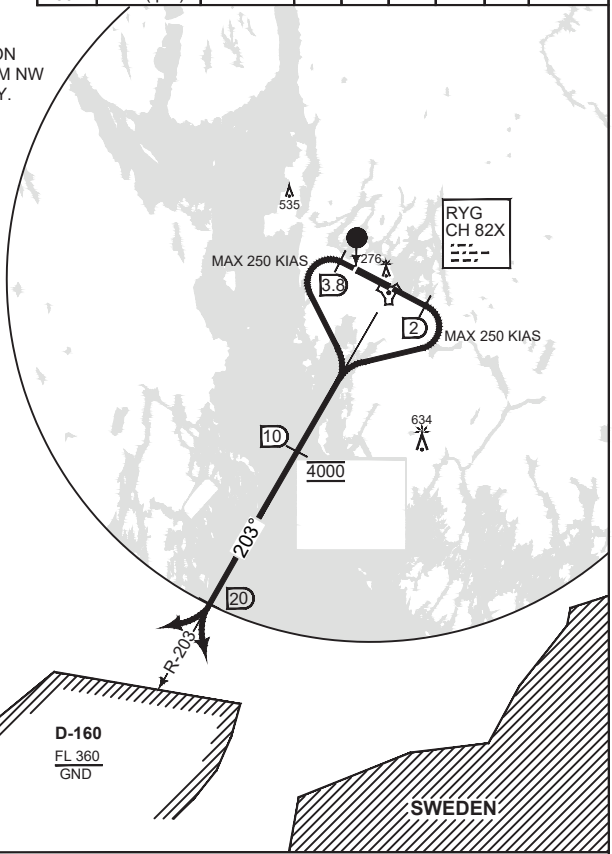
**MIPS
INSTRUMENT DEPARTURE CHART**

**SID WEST
RYGGE (ENRY)**

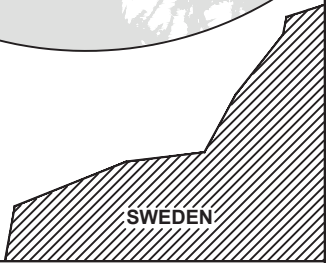
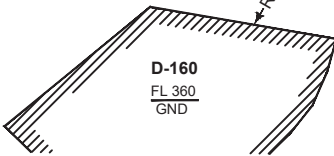
ATIS 136.175		RYGGE TWR 122.100 308.850				FARRIS APP 124.350 134.050						
OSLO CONTROL EAST 125.050 279.000		AD ELEV 173		RWY	GS (kt)	FROM-TO	60	120	180	240	300	REASON
				12	V/V (fpm)	DER-4000	330	660	990	1320	1650	ATC
				30	V/V (fpm)	DER-4000	220	440	660	880	1100	

WARNING:

● CLOSE-IN OBSTACLES
RISING TERRAIN/VEGETATION
FROM DER RWY 30 TO 0.4 NM NW
MUST BE AVOIDED VISUALLY.



SAFE ALT 100 NM 8300



TA 7000

SID WEST RWY 12	- Climb RWY track to 1000 ft or 2 DME RYG, whichever occurs first, then turn right to intercept R-203 outbound to 20 DME. Maximum 250 KIAS. Cross 10 DME at 4000 ft. Follow ATC instruction. - Minimum climb gradient 5.4% (3.1°) to 4000 ft.
● SID WEST RWY 30	- Climb RWY track to 1000 ft or RYG 3.8 DME, whichever occurs first, then turn left to intercept R-203 outbound to 20 DME. Maximum 250 KIAS. Cross 10 DME at 4000 ft. Follow ATC instruction. - Minimum climb gradient 3.6% (2.1°) to 4000 ft.

RYGGE SID WEST

59°22.73' N
010°47.13' E

RYGGE (ENRY)

23-3

CHANGES: WARNING, EMERGENCY SAFE, CLIMB, DME, SPEED, INSTRUCTIONS, EDITORIAL

RNGA/F 24 FEB 2022

ENRY

MIPS INSTRUMENT APPROACH CHART

AD ELEV 173

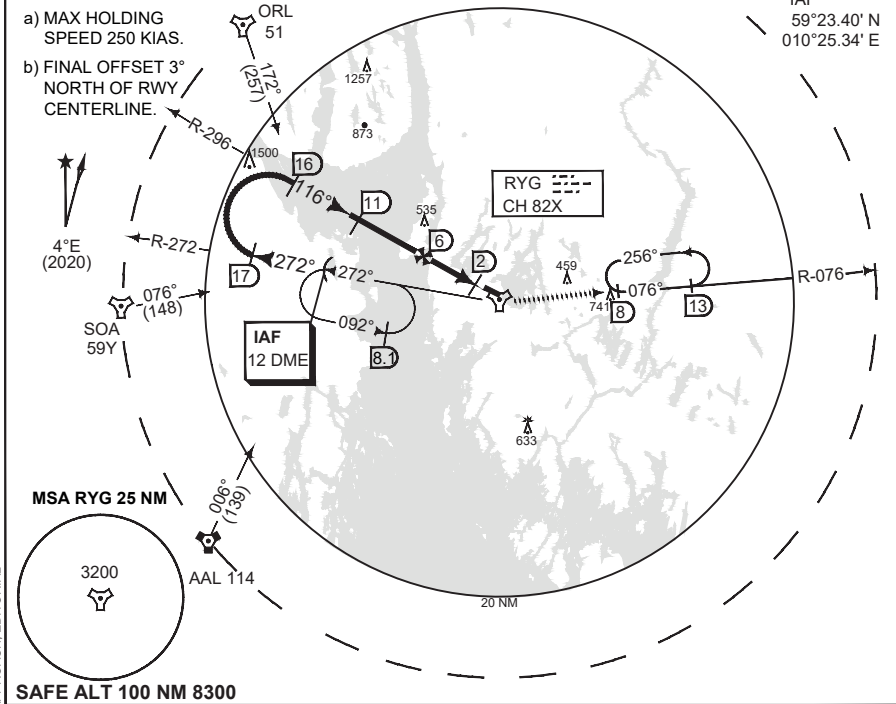
TACAN RWY 12 RYGGE (ENRY)

ATIS 136.175	RYGGE GND 121.700	RYGGE TWR 119.500 122.100 308.850	FARRIS APP (WEST) 134.050	FARRIS APP (EAST) 124.350			
TACAN RYG CH 82X	APP COURSE 116°	FAF ALT 1600	Descent GR 5.2%	MDA 610	THR ELEV 168	ALS 900 m	LDA 8011

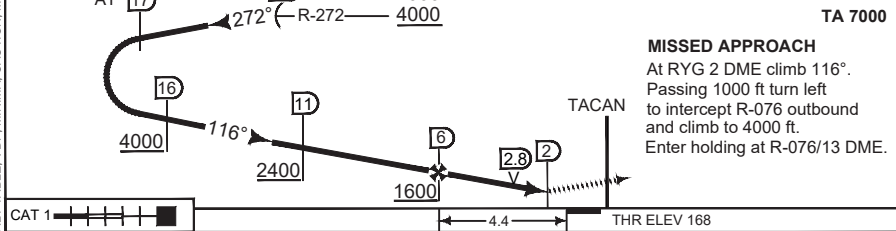
CAUTION:

- a) MAX HOLDING SPEED 250 KIAS.
- b) FINAL OFFSET 3° NORTH OF RWY CENTERLINE.

IAF
59°23.40' N
010°25.34' E



RIGHT TURN AT 17	IAF 12	7000	DME	5	4	3
		4000	ALT RYG	1290	980	660
TA 7000						



MISSED APPROACH
At RYG 2 DME climb 116°. Passing 1000 ft turn left to intercept R-076 outbound and climb to 4000 ft. Enter holding at R-076/13 DME.

CAT 1	4.4					THR ELEV 168
CATEGORY	A	B	C	D	E	
S-TAC 12	610 - 1400 442 (400-1.4/2.1)					
CIRCLING	670 - 2.3 497 (500-2.3)	680 - 2.4 507 (600-2.4)	860 - 3.2 687 (700-3.2)	910 - 3.6 737 (800-3.6)	1150 - 4.5 977 (1000-4.5)	

TACAN RWY 12

59°22.73' N
010°47.13' E

RYGGE (ENRY)

CHANGES: MAGVAR, DIST/ALT TABLE, VDP, MINIMA, CAUTION, MISSED APPROACH, EDITORIAL

RNOA/F 24 FEB 2022

MIPS INSTRUMENT APPROACH CHART

HPMA ILS or LOC RWY 30 RYGGE (ENRY)

AD ELEV 173

ATIS 136.175	RYGGE GND 121.700	RYGGE TWR 119.500 122.100 308.850			FARRIS APP (WEST) 134.050			FARRIS APP (EAST) 124.350	
ILS/DME RY 109.100 / CH 28X		APP COURSE 293°	GS INTCP ALT 3000	GS 3.0°	DA 388	THR ELEV 169	ALS 720 m	LDA 8011	

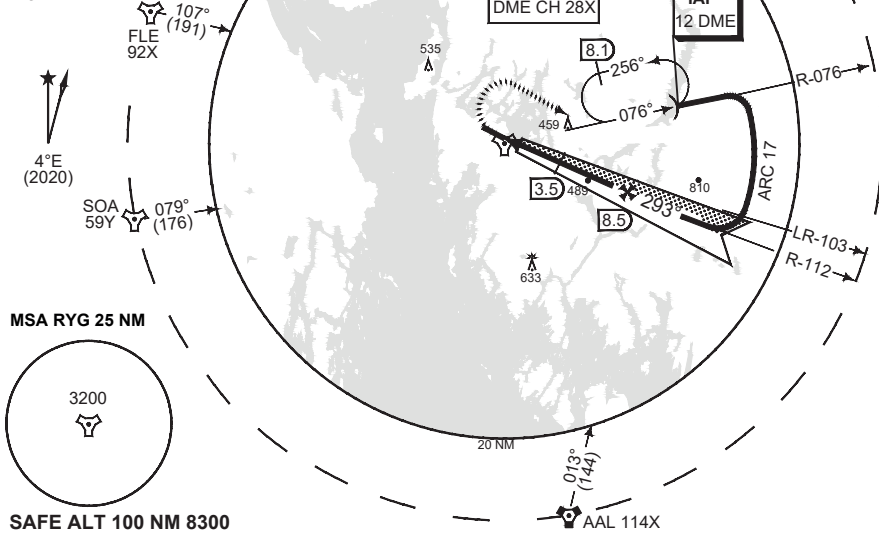
CAUTION:

a) MAX HOLDING SPEED 250 KIAS.

b) DME REQUIRED.

c) DME FROM RYG TAC UNLESS INDICATED OTHERWISE.

IAF
59°24.23' N
011°11.79' E



SAFE ALT 100 NM 8300

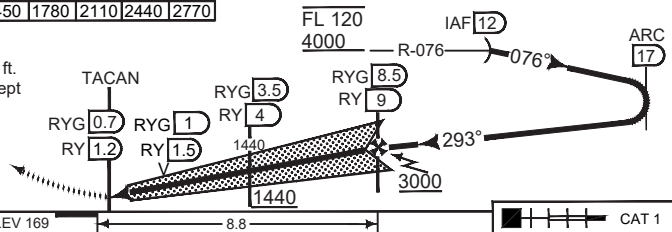
DME	2	3	4	5	6	7	8
ALT RYG	960	1290	1610	1940	2270	2600	2930
ALT RY	800	1130	1450	1780	2110	2440	2770

TA 7000

MISSED APPROACH

Climb RWY track to 1000 ft. Then turn right and intercept R-076 outbound to IAF. Climb to 4000 ft and hold.

GS 3.0°
RDH 51



THR ELEV 169

8.8

CAT 1

CATEGORY	HPMA
S-ILS 30	388 - 550 219 (300-0.8/1.2)
S-LOC 30	610 - 1400 441 (500-1.4/2.1)
CIRCLING	730 - 3.2 557 (600-3.2)

HPMA ILS or LOC RWY 30

59°22.73' N
010°47.13' E

RYGGE (ENRY)

CHANGES: MAGVAR, CAUTION, DIST/ALT TABLE, VDP, MINIMA

RNOGAF 24 FEB 2022

MIPS INSTRUMENT APPROACH CHART

ILS M or LOC M RWY 30 RYGGE (ENRY)

AD ELEV 173

ATIS 136.175	RYGGE GND 121.700	RYGGE TWR 119.500 122.100 308.850	FARRIS APP (WEST) 134.050	FARRIS APP (EAST) 124.350			
ILS/DME RY 109.100 / CH 28X	APP COURSE 293°	GS INTCP ALT 3000	GS 3.0°	DA SEE CAT	THR ELEV 169	ALS 720 m	LDA 8011

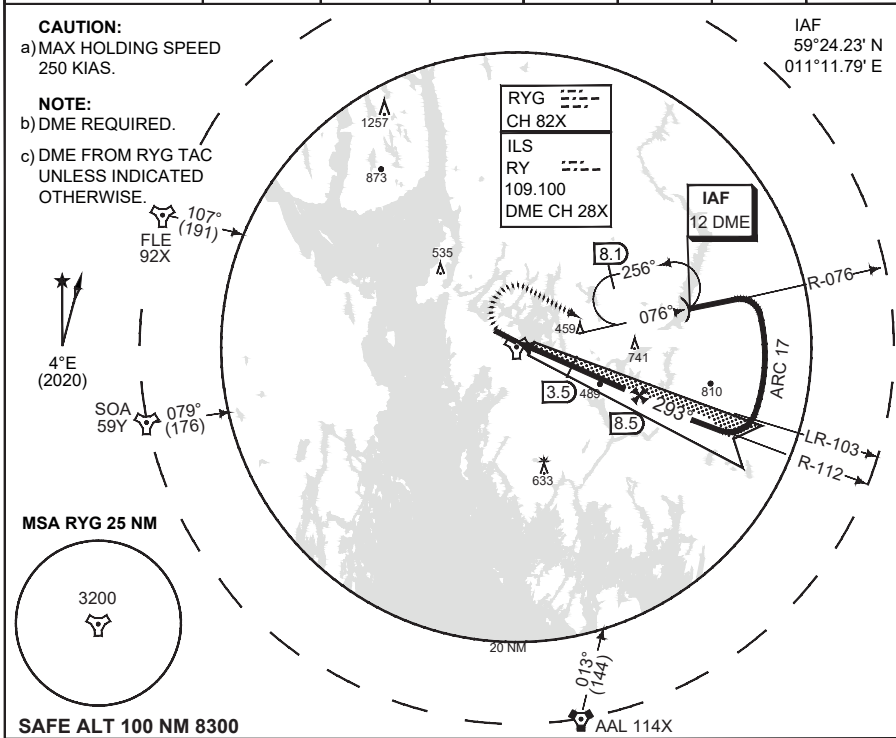
CAUTION:

a) MAX HOLDING SPEED 250 KIAS.

b) DME REQUIRED.

c) DME FROM RYG TAC UNLESS INDICATED OTHERWISE.

IAF
59°24.23' N
011°11.79' E



SAFE ALT 100 NM 8300

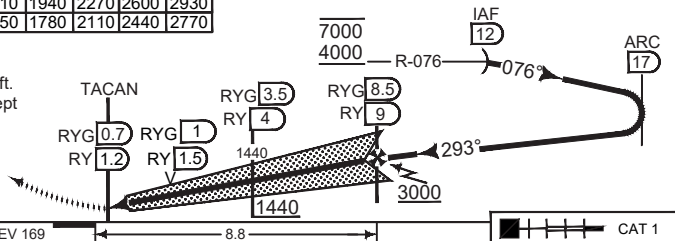
DME	2	3	4	5	6	7	8
ALT RYG	960	1290	1610	1940	2270	2600	2930
ALT RY	800	1130	1450	1780	2110	2440	2770

TA 7000

MISSED APPROACH

Climb RWY track to 1000 ft. Then turn right and intercept R-076 outbound to IAF. Climb to 4000 ft and hold.

GS 3.0°
RDH 51



THR ELEV 169	8.8				CAT 1
CATEGORY	A	B	C	D	E
S-ILS 30	377 - 550 208 (300-0.8/1.2)	385 - 550 216 (300-0.8/1.2)	391 - 550 222 (300-0.8/1.2)	401 - 550 232 (300-0.8/1.2)	419 - 550 250 (300-0.8/1.3)
S-LOC 30	610 - 1400 441 (500-1.4/2.1)				
CIRCLING	670 - 2.3 497 (500-2.3)	670 - 2.3 497 (500-2.3)	860 - 3.2 687 (700-3.2)	880 - 3.6 707 (800-3.6)	1120 - 4.3 947 (1000-4.3)

ILS M or LOC M RWY 30

59°22.73' N
010°47.13' E

RYGGE (ENRY)

MIPS INSTRUMENT APPROACH CHART

AD ELEV 173

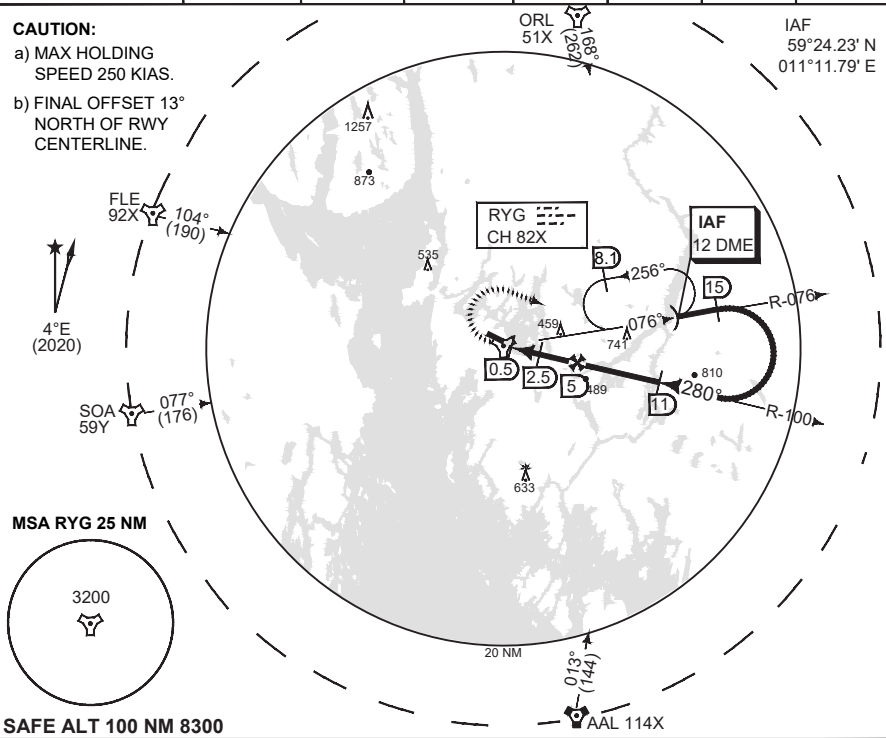
TACAN RWY 30 RYGGE (ENRY)

ATIS 136.175	RYGGE GND 121.700	RYGGE TWR 119.500	308.850	FARRIS APP (WEST) 134.050	FARRIS APP (EAST) 124.350		
TACAN RYG CH 82X	APP COURSE 280°	FAF ALT 2000	Descent GR 5.6%	MDA 570	THR ELEV 169	ALS 720 m	LDA 8011

CAUTION:

- a) MAX HOLDING SPEED 250 KIAS.
- b) FINAL OFFSET 13° NORTH OF RWY CENTERLINE.

IAF
59°24.23' N
011°11.79' E

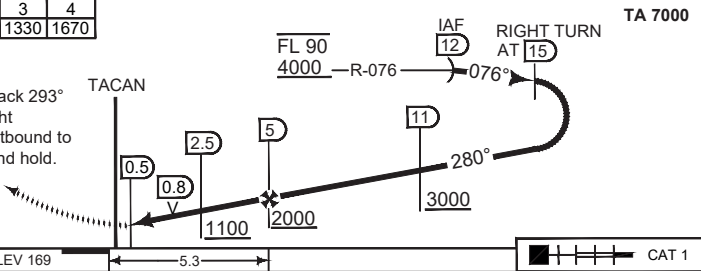


SAFE ALT 100 NM 8300

DME	1	2	3	4
ALT RYG	660	990	1330	1670

MISSED APPROACH

At 0.5 DME climb on track 293° to 1000 ft, then turn right and intercept R-076 outbound to IAF. Climb to 4000 ft and hold.



THR ELEV 169	5.3		CAT 1		
CATEGORY	A	B	C	D	E
S-TAC 30	570 - 1200 401 (500-1.2/1.9)				
CIRCLING	670 - 2.3 497 (500-2.3)	680 - 2.4 507 (600-2.4)	860 - 3.2 687 (700-3.2)	910 - 3.6 737 (800-3.6)	1150 - 4.5 977 (1000-4.5)

TACAN RWY 30

59°22.73' N
010°47.13' E

RYGGE (ENRY)

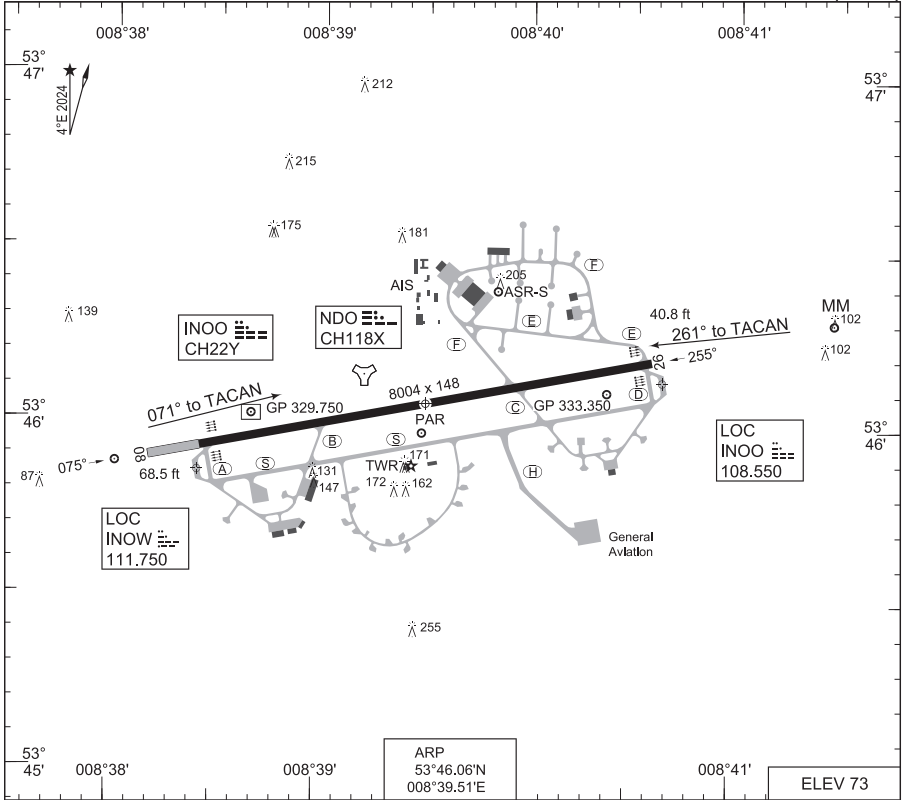
INTENTIONALLY

LEFT

BLANK

AERODROME CHART

NORDHOLZ (ETMN)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
08	86 F/A/W/T	8004	8004	8004	8004	3.0°		73	53°45.93'N 008°38.42'E
26	86 F/A/W/T	8004	8906	8906	8004	3.0°		64	53°46.19'N 008°40.60'E

NORDHOLZ TOWER 315.700 142.900 131.255
 NORDHOLZ RADAR 267.000 129.855 342.625 341.475 SSR 4240 - 4247

PAR	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
	TERPS	08	3.0°	43		751	ABCDE	TERPS	274 - 0.8 200 (200-0.8/1.2)
	TERPS	26	3.0°	68		1085	ABCDE	TERPS	267 - 0.8 200 (200-0.8/1.2)
	TERPS	079	3.0°				COPTER	TERPS	174 - 0.4 100 (100-0.4/0.8)

CHANGE: VAR (05/7/24)

ZentLufOp 18 APR 2024

AERODROME CHART

NORDHOLZ (ETMN)



**PANS-OPS
INSTRUMENT DEPARTURE CHART**

AD ELEV 73

**MN 108 - 126
NORDHOLZ (ETMN)**

NORDHOLZ TOWER
315.700 131.255

NORDHOLZ RADAR
342.625 129.855

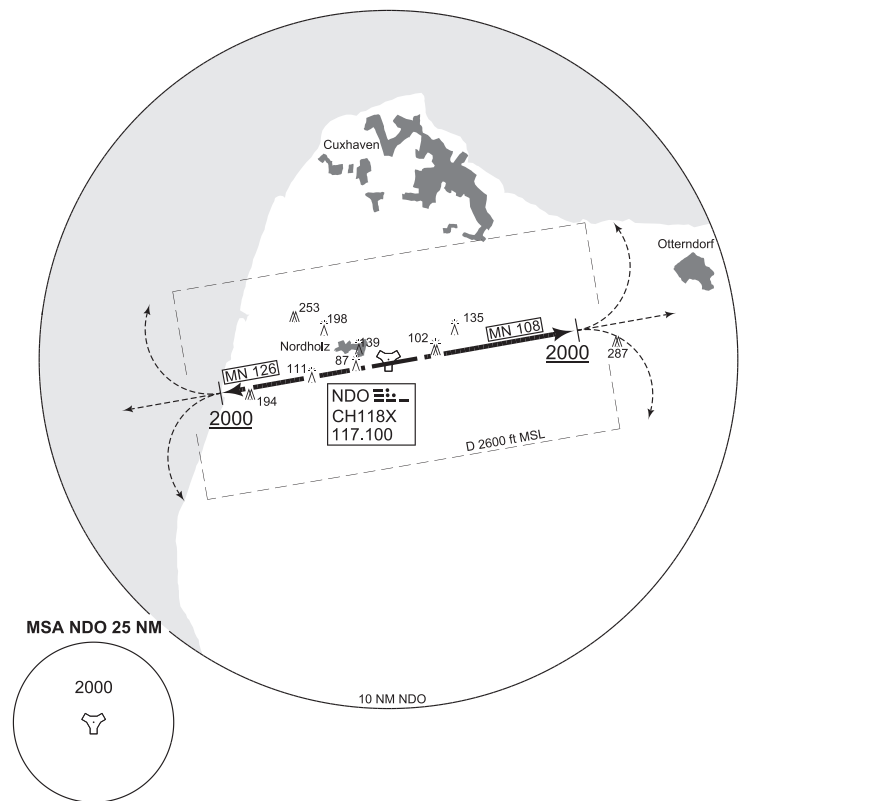
BREMEN RADAR
398.000 124.075

NOTE:

a) NO TURN BEFORE DER.



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 2700

TA 5000

CHANGE: VAR (05/7/24)

<p>MN 108 (RWY 08)</p>	<ul style="list-style-type: none"> - Climb on track 075° to 2000 ft - Continue as cleared by ATC
<p>MN 126 (RWY 26)</p>	<ul style="list-style-type: none"> - Climb on track 255° to 2000 ft - Continue as cleared by ATC

Zent/LuitOp 18 APR 2024

MN 108 - 126

53°46.06'N
008°39.51'E
25-2

NORDHOLZ (ETMN)

**PANS-OPS
INSTRUMENT APPROACH CHART**

AD ELEV 73

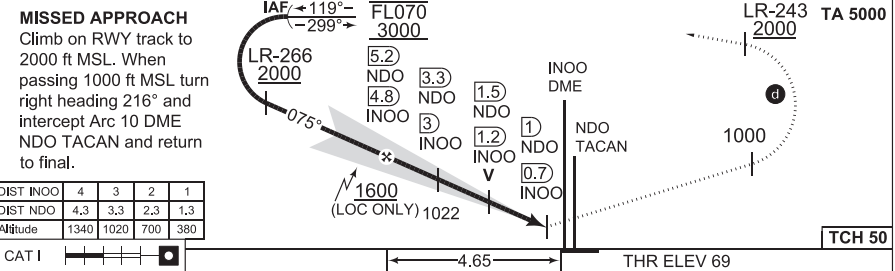
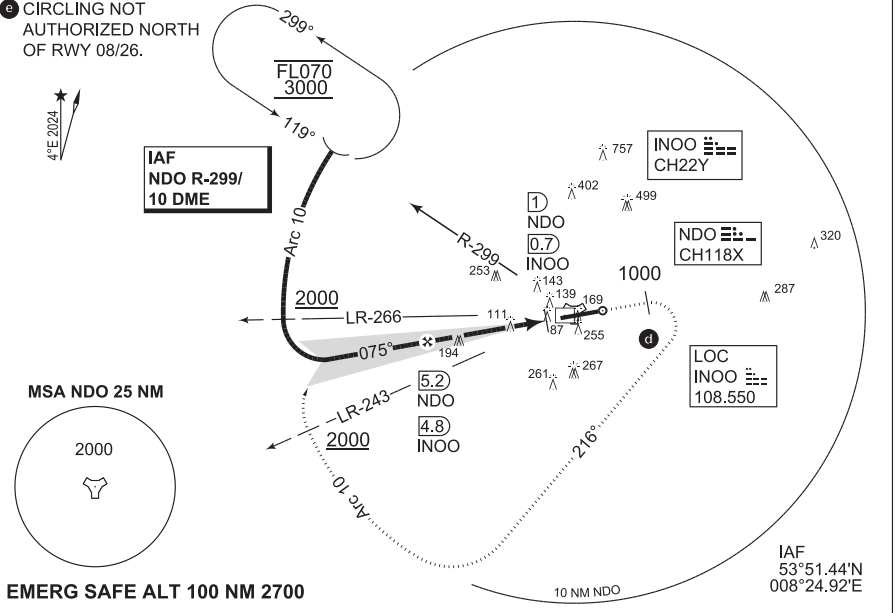
**ILS or LOC RWY 08
NORDHOLZ (ETMN)**

BREMEN RADAR 299.100 120.225		NORDHOLZ RADAR 342.625 129.855		NORDHOLZ TOWER 315.700 131.255 122.100			
TACAN / LOCALIZER CH 118X / INOO 108.55	APP COURSE 075°	GS INTCP ALT 1600	DESCENT GR 3.0° / 5.2%	DA See CAT	THR ELEV 69	ALS-LENGTH 900 M	LDA 8004

NOTE:

- a) NO TURN BEFORE MAPT.
- b) TIMING NOT AUTHORIZED FOR DEFINING MAPT.
- c) TACAN REQUIRED.
- d) MISSED APPROACH LIMITED TO 230 KIAS MAX.
- e) CIRCLING NOT AUTHORIZED NORTH OF RWY 08/26.

IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



DIST INOO	4	3	2	1
DIST NDO	4.3	3.3	2.3	1.3
Altitude	1340	1020	700	380

CATEGORY	A	B	C	D
ILS 08	269 - 0.8 550 200 (200-0.8/1.2)			
LOC 08	440 - 1.0 371 (400-1.0/1.5)		440 - 1.0 371 (400-1.0/1.7)	
CIRCLING	560 - 2.3 487 (500-2.3)	570 - 2.3 497 (500-2.3)	780 - 3.3 707 (800-3.3)	930 - 4.0 857 (900-4.0)

ILS or LOC RWY 08 **NORDHOLZ (ETMN)**
 53°46.06'N 008°39.51'E
 25-3

CHANGE:VAR. MISSED APPROACH (057/24)

ZentLufOp 18 APR 2024

TERPS INSTRUMENT APPROACH CHART

**TACAN RWY 08
NORDHOLZ (ETMN)**

AD ELEV 73

BREMEN RADAR 299.100 120.225		NORDHOLZ RADAR 342.625 129.855			NORDHOLZ TOWER 315.700 131.255		
TACAN NDO CH118X	APP COURSE 070°	FAF ALT 1600	MDA 450	THR ELEV 69	ALS-LENGTH 900 M	LDA 8004	

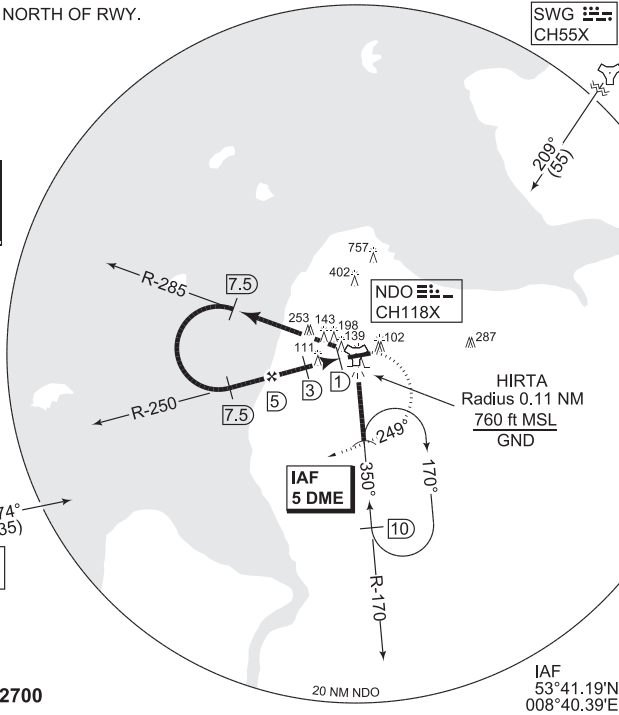
CAUTION:

① CIRCLING NOT AUTHORIZED NORTH OF RWY.

SWG CH55X

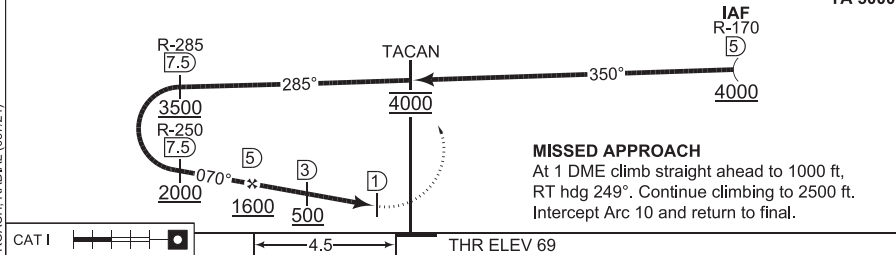


IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 2700

TA 5000



CAT I THR ELEV 69

TERPS	CATEGORY	A	B	C	D	E
	S-TACAN 08	450 - 1.1 381 (400-1.1/1.5)		450 - 1.1 381 (400-1.1/1.8)		
	① CIRCLING	560 - 2.3 487 (500-2.3)	570 - 2.3 497 (500-2.3)	780 - 3.3 707 (800-3.3)	930 - 4.0 857 (900-4.0)	1030 - 4.5 957 (1000-4.5)
	PAR 08	274 - 0.8 200 (200-0.8/1.2) GS 3.0°				

TACAN RWY 08

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)

CHANGE: VAR, MISSED APPROACH, RADIAL (057/24)

ZentLuitop 18 APR 2024

**PANS-OPS
INSTRUMENT APPROACH CHART**

**ILS or LOC RWY 26
NORDHOLZ (ETMN)**

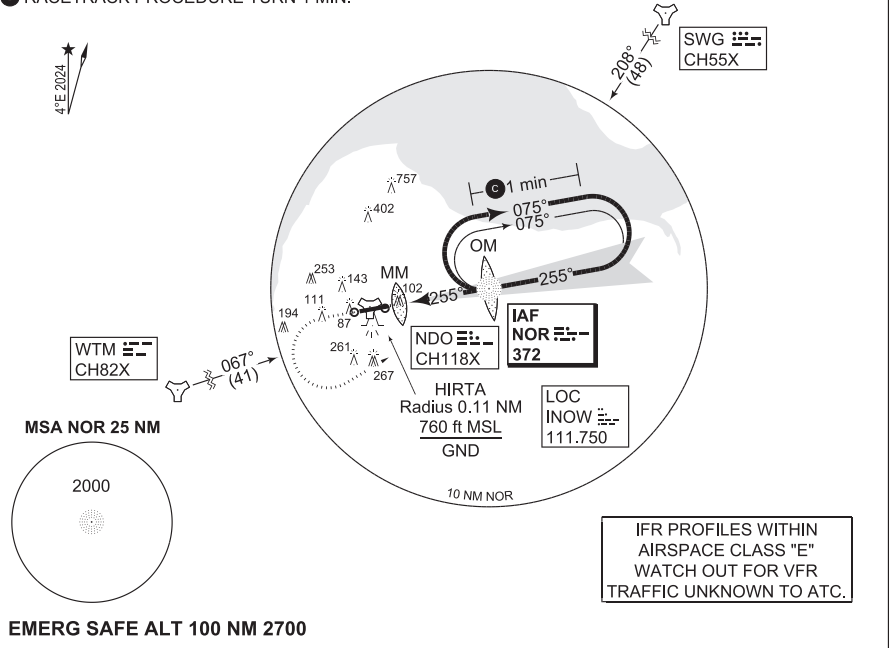
AD ELEV 73

BREMEN RADAR 299.100 120.225		NORDHOLZ RADAR 342.625 129.855		NORDHOLZ TOWER 315.700 131.255			
TACAN / LOCALIZER CH 118X / INOW 111.750	APP COURSE 255°	GS INTCP ALT 1600	GS 3.0° (5.2%)	DA See CAT	TDZE 64	ALS-LENGTH 900 M	LDA 8004

NOTE:

- a) PROCEDURE LIMITED TO 230 KIAS.
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY.
- c) RACETRACK PROCEDURE TURN 1 MIN.

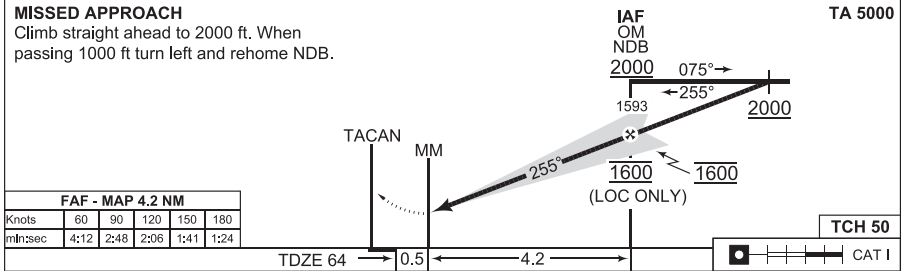
IAF
53°47.11'N
008°48.37'E



EMERG SAFE ALT 100 NM 2700

MISSED APPROACH

Climb straight ahead to 2000 ft. When passing 1000 ft turn left and rehome NDB.



FAF - MAP 4.2 NM					
Knots	60	90	120	150	180
min:sec	4:12	2:48	2:06	1:41	1:24

CATEGORY	A		B		C		D	
	S-ILS 26	264 - 0.8/550 200 (200-0.8/1.2)						
S-LOC 26	480 - 1.2 416 (500-1.2/1.5)				480 - 1.2 416 (500-1.2/1.9)			
b CIRCLING	560 - 2.3 487 (500-2.3)		570 - 2.3 497 (500-2.3)		780 - 3.3 707 (800-3.3)		930 - 4.0 857 (900-4.0)	

ILS or LOC RWY 26

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)

25-5

ETMN

CHANGE: VAR (05/7/24)

MPS

ZentLutOp 18 APR 2024

TERPS INSTRUMENT APPROACH CHART

**TACAN RWY 26
NORDHOLZ (ETMN)**

AD ELEV 73

BREMEN RADAR 299.100 120.225		NORDHOLZ RADAR 342.625 129.855			NORDHOLZ TOWER 315.700 131.255		
TACAN NDO CH118X	APP COURSE 260°	FAF ALT 1600	MDA 450	THR ELEV 41	ALS-LENGTH 900 M	LDA 8004	

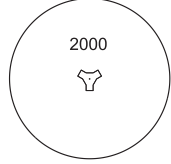
CAUTION:
ⓐ CIRCLING NOT AUTHORIZED NORTH OF RWY.

SWG CH55X

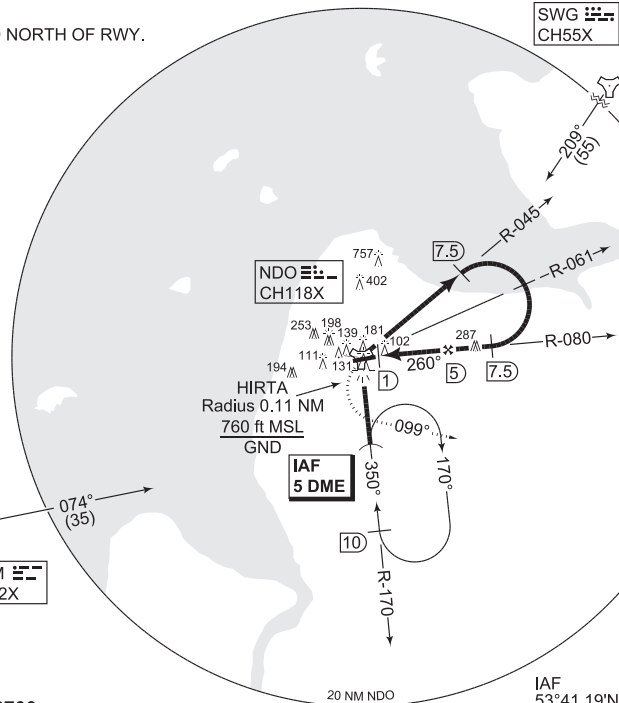


IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.

MSA NDO 25 NM

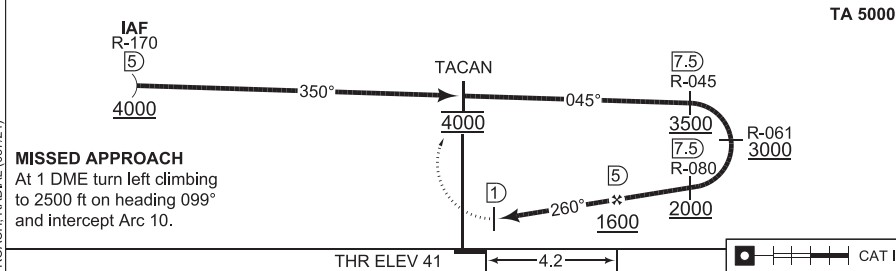


WTM CH82X



EMERG SAFE ALT 100 NM 2700

IAF 53°41.19'N 008°40.39'E



MISSED APPROACH
At 1 DME turn left climbing to 2500 ft on heading 099° and intercept Arc 10.

THR ELEV 41

CAT I

TERPS	CATEGORY	A	B	C	D	E
	S-TACAN 26	450 - 1.2 409 (500-1.2/1.5)		450 - 1.2 409 (500-1.2/1.9)		
ⓐ	CIRCLING	560 - 2.3 487 (500-2.3)	570 - 2.3 497 (500-2.3)	780 - 3.3 707 (800-3.3)	930 - 4.0 857 (900-4.0)	1030 - 4.5 957 (1000-4.5)
	PAR 26	267 - 0.8 200 (200-0.8/1.2) GS 3.0°				

TACAN RWY 26

53°46.06'N 008°39.51'E

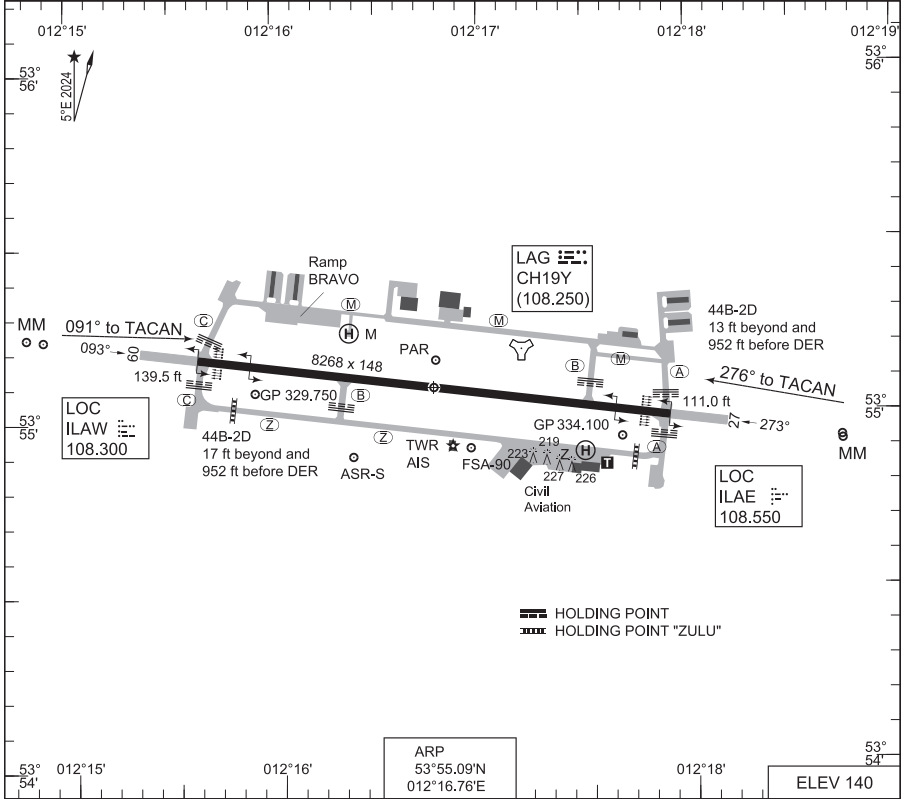
NORDHOLZ (ETMN)

CHANGE: VAR, MISSED APPROACH, RADIAL (05/7/24)

ZentLuitop 18 APR 2024

AERODROME CHART

LAAGE (ETNL)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
09	88 R/B/W/T	8268 (8924*)	9266	10283 (10938*)	8268	3.0°		140	53°55.18'N 012°15.62'E
27	88 R/B/W/T	8268 (8924*)	9269	9909 (10564*)	8268	3.0°		134	53°54.99'N 012°17.90'E

*SWY available for TKOF on request via backtrack (PCN 66)

LAAGE TOWER	336.400	118.430
LAAGE RADAR	376.400	133.105 SSR 4210 - 4217
LAAGE ATIS	134.605	

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	09	3.0°	23		459	ABCDE	TERPS	340 - 0.8 200 (200-0.8/1.2)
	PANS-OPS	27	3.0°	29		460	ABCDE	TERPS	335 - 0.8 200 (200-0.8/1.2)

CHANGE: VAR (376/23)

ZentLufOp 28 DEC 2023

AERODROME CHART

LAAGE (ETNL)

TERPS
INSTRUMENT DEPARTURE CHART

AD ELEV 140

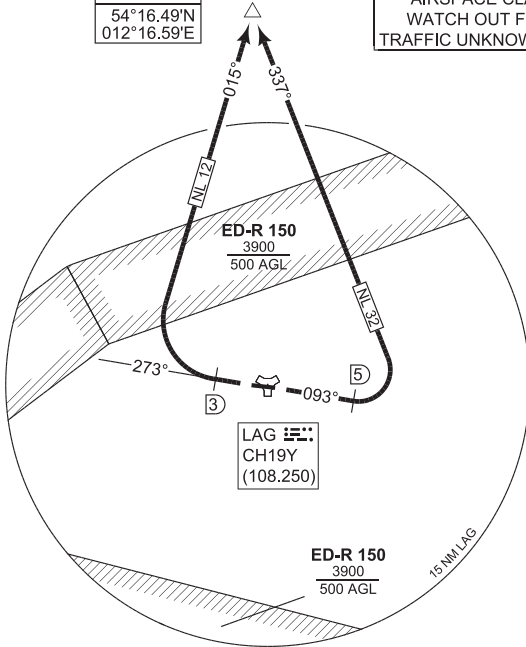
NL 12 - 32
LAAGE (ETNL)

LAAGE TOWER 336.400 118.430		LAAGE RADAR 376.400 133.105		BREMEN RADAR 259.825 124.175			LAAGE ATIS 134.605		
RWY	Knots	60	120	180	240	300	360	to	
27	V/V (fpm)	270	540	810	1080	1350	1620	1420 ft	
09	V/V (fpm)	230	460	690	820	1050	1280	1800 ft	



GASBO
54°16.49'N
012°16.59'E

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

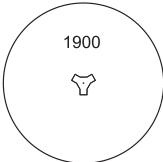


LAG CH19Y
(108.250)

ED-R 150
3900
500 AGL

15 NM LAG

MSA LAG 25 NM



EMERG SAFE ALT 100 NM 3500

TA 5000

CHANGE: VAR (376/23)

NL 12 (RWY 27)	<ul style="list-style-type: none"> - Climb on track 273° to LAG/3 DME - Turn right and proceed on track 015° to GASBO - INITIAL CLIMB: 4000 ft
NL 32 (RWY 09)	<ul style="list-style-type: none"> - Climb on track 093° to LAG/5 DME - Turn left and proceed on track 337° to GASBO - INITIAL CLIMB: 4000 ft

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NL 12 - 32

53°55.09'N
012°16.76'E

LAAGE (ETNL)

**TERPS
INSTRUMENT DEPARTURE CHART**

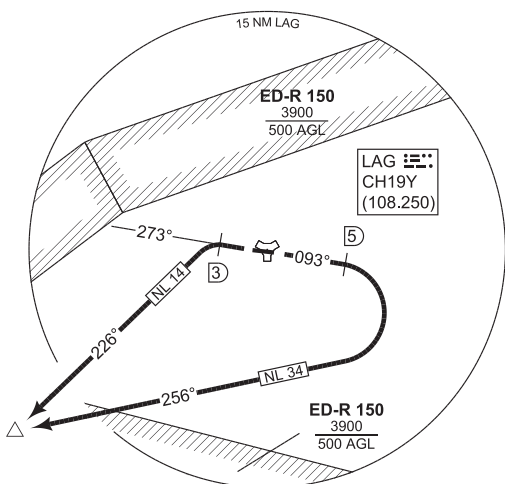
AD ELEV 140

**NL 14 - 34
LAAGE (ETNL)**

LAAGE TOWER 336.400 118.430		LAAGE RADAR 376.400 133.105		BREMEN RADAR 259.825 124.175				LAAGE ATIS 134.605		
	RWY	Knots	60	120	180	240	300	360	to	
	27	V/V (fpm)	250	500	750	1000	1250	1500	3500 ft	
	09	V/V (fpm)	230	460	690	920	1150	1380	1800 ft	

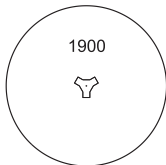


IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



TAGOB
53°44.09'N
011°49.98'E

MSA LAG 25 NM



EMERG SAFE ALT 100 NM 3500

TA 5000

CHANGE: VAR (376/23)

NL 14 (RWY 27)	<ul style="list-style-type: none"> - Climb on track 273° to LAG/3 DME. - Turn left and proceed on track 226° to TAGOB - INITIAL CLIMB: 4000 ft
NL 34 (RWY 09)	<ul style="list-style-type: none"> - Climb on track 093° to LAG/5 DME - Turn right and proceed on track 256° to TAGOB - INITIAL CLIMB: 4000 ft

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NL 14 - 34

53°55.09'N
012°16.76'E

LAAGE (ETNL)

**TERPS
INSTRUMENT DEPARTURE CHART**

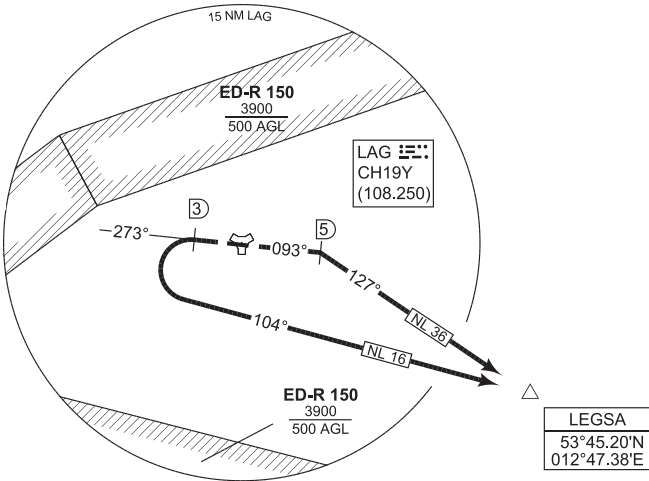
AD ELEV 140

**NL 16 - 36
LAAGE (ETNL)**

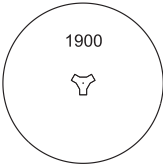
LAAGE TOWER 336.400 118.430		LAAGE RADAR 376.400 133.105		BREMEN RADAR 259.825 124.175				LAAGE ATIS 134.605			
	RWY	Knots	60	120	180	240	300	360	to		
	27	V/V (fpm)	250	500	750	1000	1250	1500	3500 ft		
	09	V/V (fpm)	230	460	690	920	1150	1380	1800 ft		



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA LAG 25 NM



EMERG SAFE ALT 100 NM 3500

TA 5000

NL 16 (RWY 27)	<ul style="list-style-type: none"> - Climb on track 273° to LAG/3 DME - Turn left and proceed on track 104° to LEGSA - INITIAL CLIMB: 4000 ft
NL 36 (RWY 09)	<ul style="list-style-type: none"> - Climb on track 093° to LAG/5 DME - Turn right and proceed on track 127° to LEGSA - INITIAL CLIMB: 4000 ft

CHANGE: VAR (376/23)

Zent/LuitOp 28 DEC 2023

NL 16 - 36

53°55.09'N
012°16.76'E

LAAGE (ETNL)

**PANS-OPS
OPERATIONAL INSTRUMENT DEPARTURE CHART**

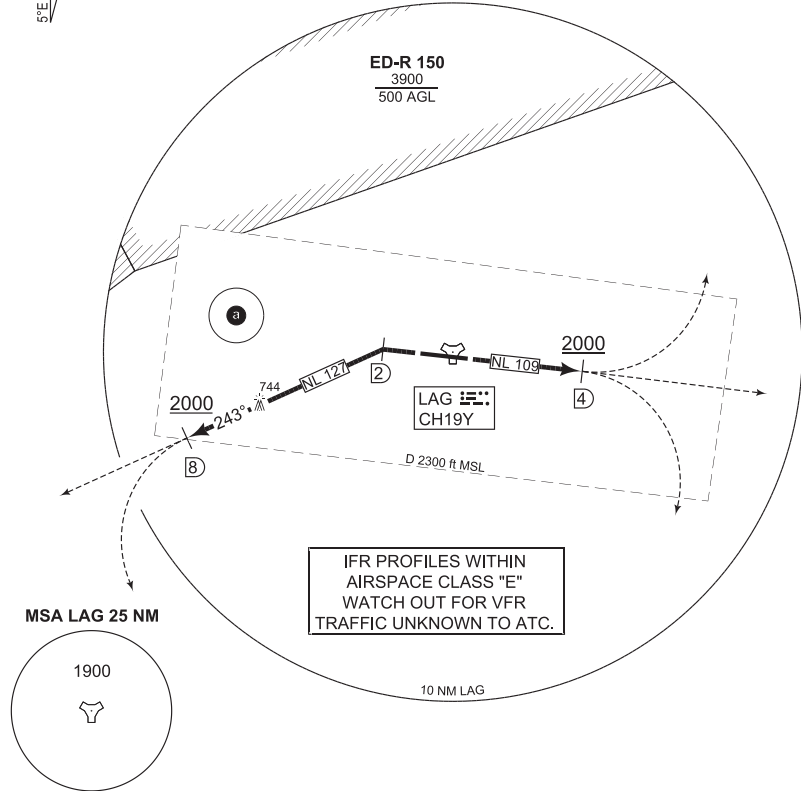
AD ELEV 140

**NL 109 - 127
LAAGE (ETNL)**

LAAGE TOWER 336.400 118.430	LAAGE RADAR 376.400 133.105	BREMEN RADAR 259.825 124.175				LAAGE ATIS 134.605			
	RWY	from - to	60	120	180	240	300	360	Reason
	09	DER - 2000	582	1164	1746	2328	2910	3492	ATC
	27	DER - 1000	477	954	1431	1908	2385	2862	ATC

NOTE:

- a) NOISE ABATEMENT AREA AROUND CITY OF SCHWAAAN.
- b) DME REQUIRED.



EMERG SAFE ALT 100 NM 3500

TA 5000

NL 109 (RWY 09)	<ul style="list-style-type: none"> - Climb straight ahead - Pass LAG/4 DME at 2000 ft or above - Continue as cleared by ATC - INITIAL CLIMB: 4000 ft
NL 127 (RWY 27)	<ul style="list-style-type: none"> - Climb straight ahead - When passing LAG/2 DME turn left and proceed on track 243° to LAG/8 DME, pass LAG/8 DME at 2000 ft or above - Continue as cleared by ATC - INITIAL CLIMB: 4000 ft

CHANGE: VAR (376/23)

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NL 109 - 127

53°55.09'N
012°16.76'E

LAAGE (ETNL)

**PANS-OPS
OPERATIONAL INSTRUMENT DEPARTURE CHART**

AD ELEV 140

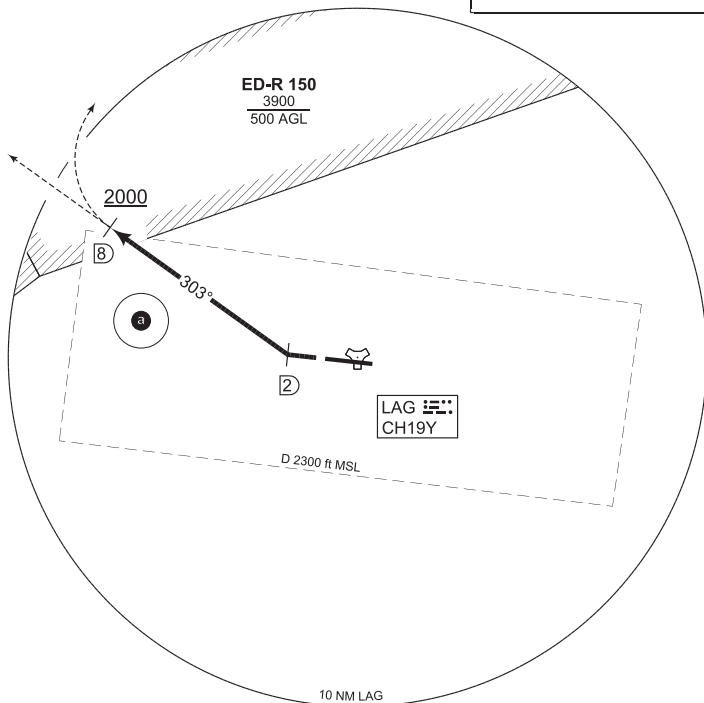
**NL 227
LAAGE (ETNL)**

LAAGE TOWER		LAAGE RADAR		BREMEN RADAR				LAAGE ATIS		
336.400	118.430	376.400	133.105	259.825		124.175		134.605		
	RWY	from-to	60	120	180	240	300	360	Reason	
	27	DER - 1000	477	954	1431	1908	2385	2862	ATC	

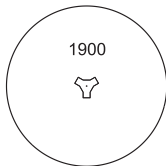
NOTE:

- a) NOISE ABATEMENT AREA AROUND CITY OF SCHWAAN.
- b) DME REQUIRED.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA LAG 25 NM



EMERG SAFE ALT 100 NM 3500

TA 5000

NL 227
(RWY 27)

- Climb straight ahead
- When passing LAG/2 DME turn right and proceed on track 303° to LAG/8 DME, pass LAG/8 DME at 2000 ft or above
- Continue as cleared by ATC
- INITIAL CLIMB: 4000 ft

CHANGE: VAR (376/23)

Zent/LuitOp 28 DEC 2023

NL 227

53°55.09'N
012°16.76'E

LAAGE (ETNL)

**PANS-OPS
INSTRUMENT APPROACH CHART**

**ILS or LOC Y RWY 09
LAAGE (ETNL)**

AD ELEV 140

BREMEN RADAR 259.825 124.175	LAAGE RADAR 376.400 133.105	LAAGE TOWER 336.400 118.430	LAAGE ATIS 134.605
TACAN/LOCALIZER LAG CH19Y/ILAE 108.550	APP COURSE 093°	GS INTCP ALT 2000	GS 3.0°
		DA See CAT	TDZE 140
		ALS-LENGTH 900 M	LDA 8268

NOTE:

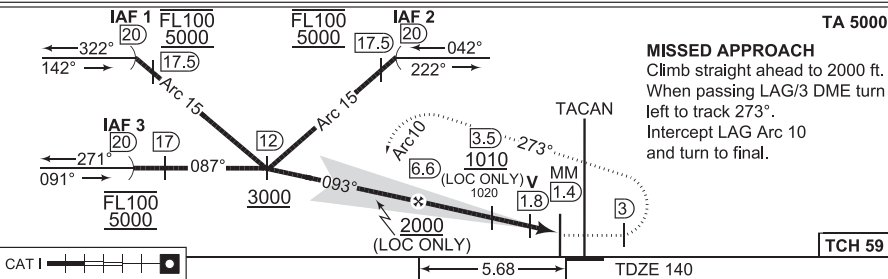
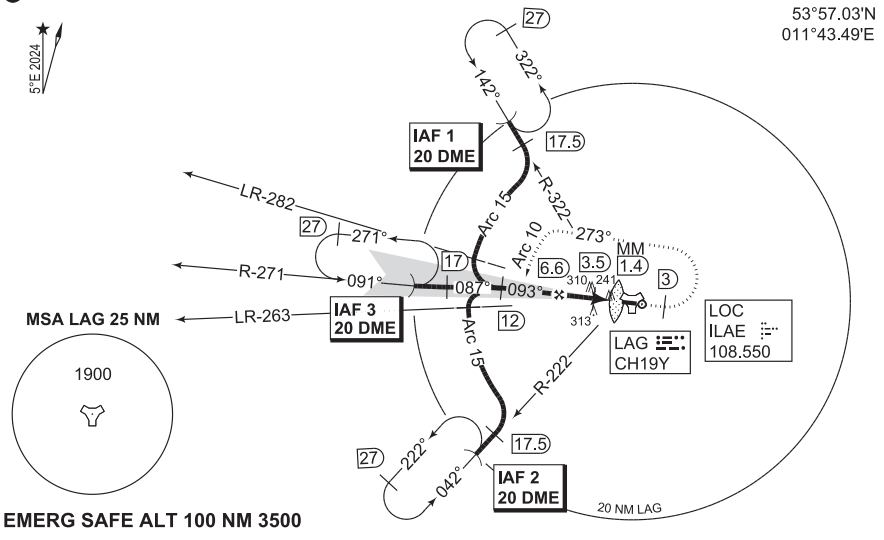
- a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- b) NON STANDARD PROCEDURE (DEAD RECKONING INTERCEPTS LOC WITH 6.0° ONLY).
- c) FOR MILITARY USE ONLY.
- d) PAPI AND ILS GLIDEPATH DO NOT COINCIDE.
- e) TACAN REQUIRED.
- f) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- g) HPMA

IAF 1
54°11.91'N
011°58.64'E

IAF 2
53°41.53'N
011°52.58'E

IAF 3
53°57.03'N
011°43.49'E

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



CATEGORY	A	B	C	D	E
ILS Y 09	340 - 0.8 200 (200-0.8/1.2)				NOT AUTHORIZED
LOC Y 09	490 - 0.8 350 (400-0.8/1.6)	490 - 1.2 350 (400-1.2/1.6)		490 - 1.2 350 (400-1.2/2.0)	NOT AUTHORIZED
f) CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)		1070 - 4.3 930 (1000-4.3) g)

ILS or LOC Y RWY 09

53°55.09'N
012°16.76'E

LAAGE (ETNL)

CHANGE: VAR (376/23)

MPS

ZentLufTop-28 DEC 2023

**PANS-OPS
INSTRUMENT APPROACH CHART**

AD ELEV 140

**ILS or LOC Z RWY 09
LAAGE (ETNL)**

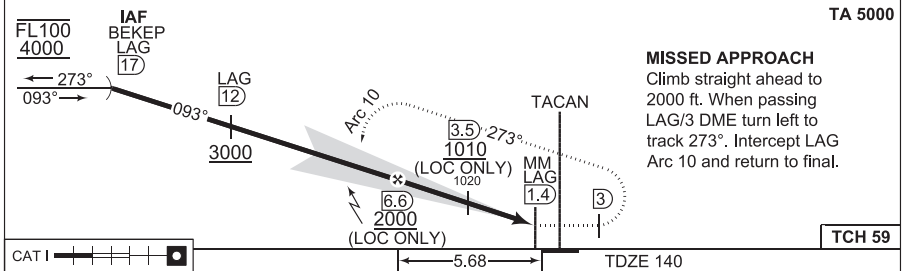
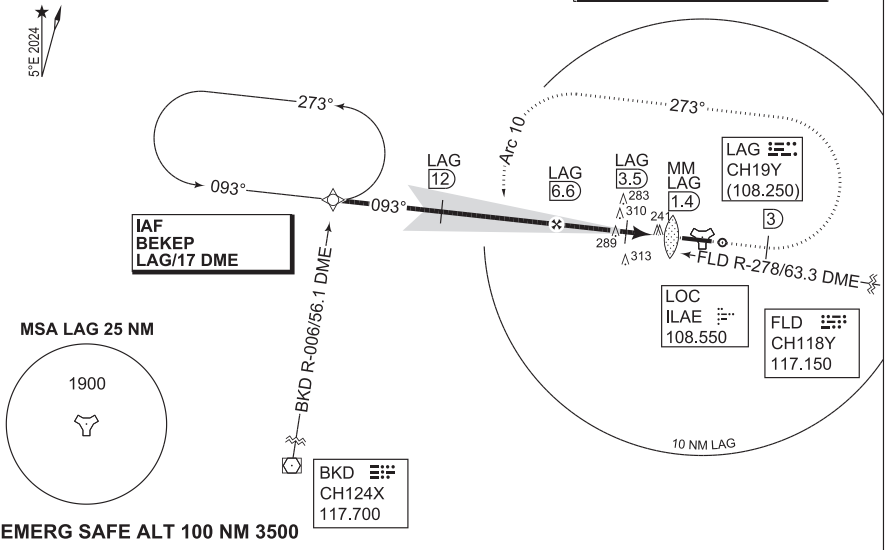
BREMEN RADAR 259.825 124.175	LAAGE RADAR 376.400 133.105	LAAGE TOWER 336.400 118.430	LAAGE ATIS 134.605
TACAN/LOCALIZER LAG CH19Y/ILAE 108.550	APP COURSE 093°	GS INTCP ALT 2000	GS 3.0°
		DA See CAT	TDZE 140
		ALS-LENGTH 900 M	LDA 8268

NOTE:

- a) PAPI AND ILS GLIDEPATH DO NOT COINCIDE.
- b) DME REQUIRED.
- c) RNAV REQUIRED FOR HOLDING, IN CASE OF LOST COM FOR NON-RNAV EQUIPPED ACFT DISREGARD ETA AND START APPROACH WITHOUT DELAY.
- d) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- e) HPMA

IAF BEKEP
53°57.16'N
011°48.38'E

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



CAT I	5.68			TDZE 140	
CATEGORY	A	B	C	D	E
ILS Z 09	340 - 0.8 200 (200-0.8/1.6)				NOT AUTHORIZED
LOC Z 09	490 - 0.8 350 (400-0.8/1.6)		490 - 1.2 350 (400-1.2/1.6)	490 - 1.2 350 (400-1.2/2.0)	NOT AUTHORIZED
d CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)		1070 - 4.3 930 (1000-4.3) e

ILS or LOC Z RWY 09

53°55.09'N
012°16.76'E

LAAGE (ETNL)

CHANGE: VAR (376/23)

ZentLufTop-28 DEC 2023

**PANS-OPS
INSTRUMENT APPROACH CHART**

AD ELEV 140

**TACAN RWY 09
LAAGE (ETNL)**

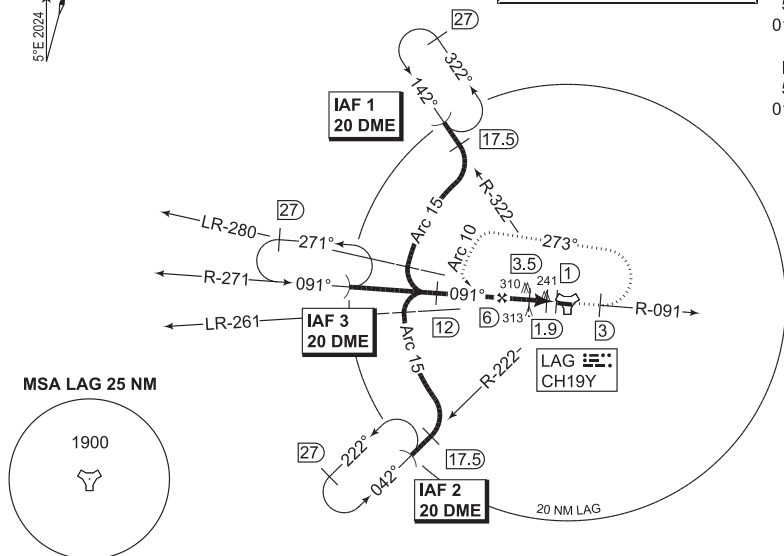
BREMEN RADAR 259.825 124.175		LAAGE RADAR 376.400 133.105		LAAGE TOWER 336.400 118.430		LAAGE ATIS 134.605	
TACAN LAG CH19Y	APP COURSE 091°	FAF ALT 1800	DESCENT GR 5.2%	MDA 500	TDZE 140	ALS-LENGTH 900 M	LDA 8268

NOTE:

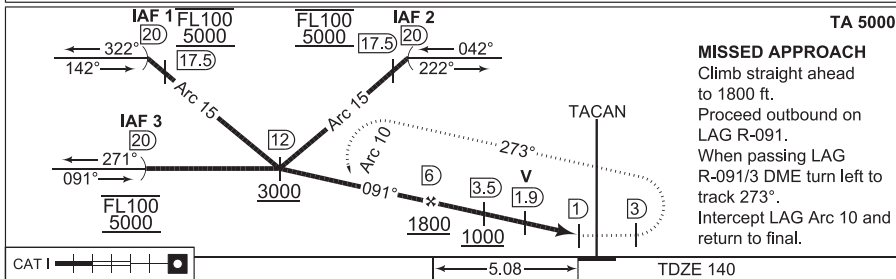
- a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- c) HPMA

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

- IAF 1
54°11.91'N
011°58.64'E
- IAF 2
53°41.53'N
011°52.58'E
- IAF 3
53°57.03'N
011°43.49'E



EMERG SAFE ALT 100 NM 3500



CAT I	5.08				TDZE 140	
TA 5000						
MISSED APPROACH	Climb straight ahead to 1800 ft. Proceed outbound on LAG R-091. When passing LAG R-091/3 DME turn left to track 273°. Intercept LAG Arc 10 and return to final.					
CHANGE: VAR. LR (3/76/23)	CATEGORY	A	B	C	D	E
MPS	TACAN 09	500 - 1.2 360 (400-1.2/1.6)			500 - 1.2 360 (400-1.2/2.0)	
	b CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)	1070 - 4.3 930 (1000-4.3)	
	PAR 09	340 - 0.8 200 (200-0.8/1.2)				

TACAN RWY 09

53°55.09'N
012°16.76'E

LAAGE (ETNL)

**PANS-OPS
INSTRUMENT APPROACH CHART**

**ILS or LOC Y RWY 27
LAAGE (ETNL)**

AD ELEV 140

BREMEN RADAR 259.825 124.175	LAAGE RADAR 376.400 133.105	LAAGE TOWER 336.400 118.430	LAAGE ATIS 134.605
TACAN/LOCALIZER LAG CH19Y/ILAW 108.300	APP COURSE 273°	GS INTCPT ALT 2000	GS 3.0° / 5.2%
		DA See CAT	TDZE 135
			ALS-LENGTH 900 M
			LDA 8268

NOTE:

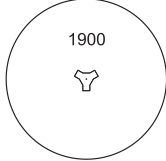
- a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- b) NON STANDARD PROCEDURE (DEAD RECKONING INTERCEPTS LOC WITH 8.0° ONLY).
- c) FOR MILITARY USE ONLY.
- d) PAPI AND ILS GLIDEPATH DO NOT COINCIDE.
- e) TACAN REQUIRED.
- f) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- g) HPMA

IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.

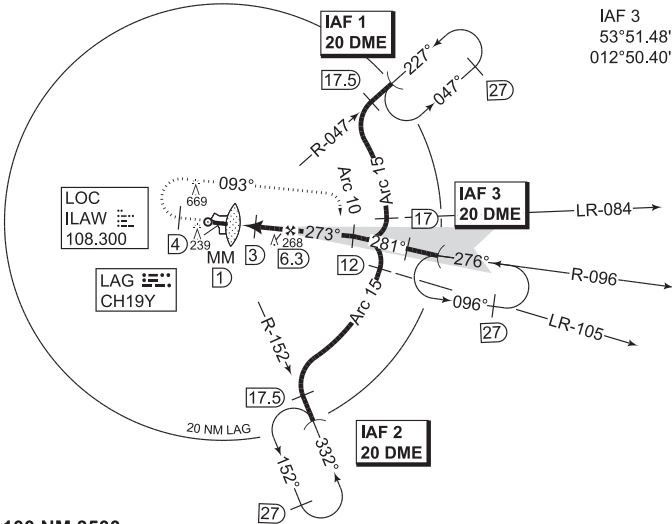
- IAF 1
54°07.43'N
012°43.97'E
- IAF 2
53°36.80'N
012°30.31'E
- IAF 3
53°51.48'N
012°50.40'E



MSA LAG 25 NM

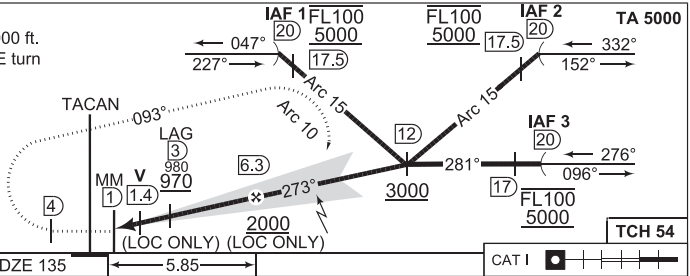


EMERG SAFE ALT 100 NM 3500



MISSED APPROACH

Climb straight ahead to 2000 ft. When passing LAG/4 DME turn right to track 093°. Intercept LAG Arc 10 and return to final.



CATEGORY	A	B	C	D	E
ILS Y 27	335 - 0.8 200 (200-0.8/1.6)				NOT AUTHORIZED
LOC Y 27	480 - 0.8 345 (400-0.8/1.6)		480 - 1.2 345 (400-1.2/1.6)	480 - 1.2 345 (400-1.2/2.0)	NOT AUTHORIZED
f) CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)		1070 - 4.3 930 (1000-4.3) g)

ILS or LOC Y RWY 27

53°55.09'N
012°16.76'E

LAAGE (ETNL)

CHANGE: VAR, LR (3/76/23)

Zentur/Top-28 DEC 2023

**PANS-OPS
INSTRUMENT APPROACH CHART**

AD ELEV 140

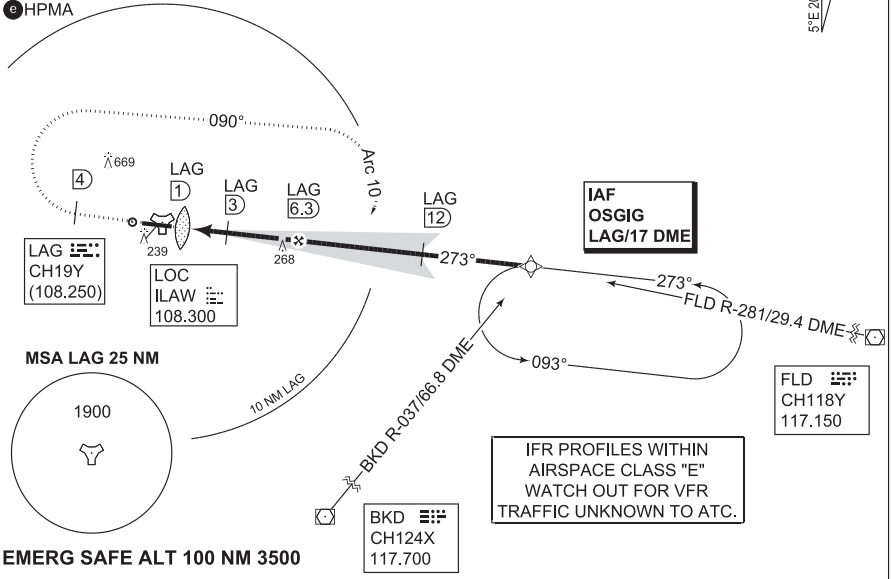
**ILS or LOC Z RWY 27
LAAGE (ETNL)**

BREMEN RADAR 259.825 124.175	LAAGE RADAR 376.400 133.105	LAAGE TOWER 336.400 118.430	LAAGE ATIS 134.605
TACAN/LOCALIZER LAG CH19Y/ILAW 108.300	APP COURSE 273°	GS INTCP ALT 2000	GS 3.0° / 5.2%
		DA See CAT	TDZE 135
			ALS-LENGTH 900 M
			LDA 8268

NOTE:

- a) PAPI AND ILS GLIDEPATH DO NOT COINCIDE
- b) DME REQUIRED.
- c) RNAV REQUIRED FOR HOLDING, IN CASE OF LOST COM FOR NON-RNAV EQUIPPED ACFT DISREGARD ETA AND START APPROACH WITHOUT DELAY.
- d) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- e) HPMA

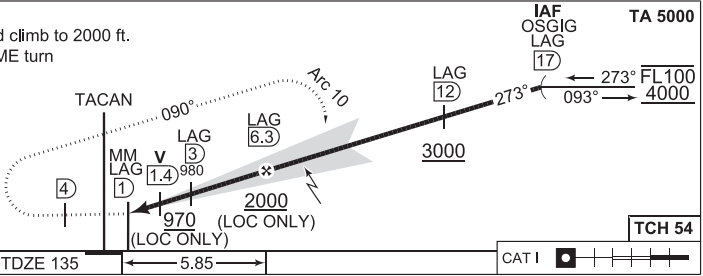
IAF OSGIG
53°52.71'N
012°45.61'E



EMERG SAFE ALT 100 NM 3500

MISSED APPROACH

Climb straight ahead and climb to 2000 ft.
When passing LAG/4 DME turn right to track 090°.
Intercept LAG Arc 10 and return to final.



TDZE 135 5.85 CAT I

CATEGORY	A	B	C	D	E
ILS Z 27	335 - 0.8 200 (200-0.8/1.6)				NOT AUTHORIZED
LOC Z 27	480 - 0.8 345 (400-0.8/1.6)		480 - 1.2 345 (400-1.2/1.6)	480 - 1.2 345 (400-1.2/2.0)	NOT AUTHORIZED
d) CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)		1070 - 4.3 930 (1000-4.3)

ILS or LOC Z RWY 27

53°55.09'N
012°16.76'E

LAAGE (ETNL)

**PANS-OPS
INSTRUMENT APPROACH CHART**

AD ELEV 140

**TACAN RWY 27
LAAGE (ETNL)**

BREMEN RADAR 259.825 124.175		LAAGE RADAR 376.400 133.105		LAAGE TOWER 336.400 118.430		LAAGE ATIS 134.605	
TACAN LAG CH19Y	APP COURSE 276°	FAF ALT 1900	DESCENT GR 5.2%	MDA 530	TDZE 135	ALS-LENGTH 900 M	LDA 8268

NOTE:

- a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- c) HPMA

IAF 1
54°07.43'N
012°43.97'E

IAF 2
53°36.80'N
012°30.31'E

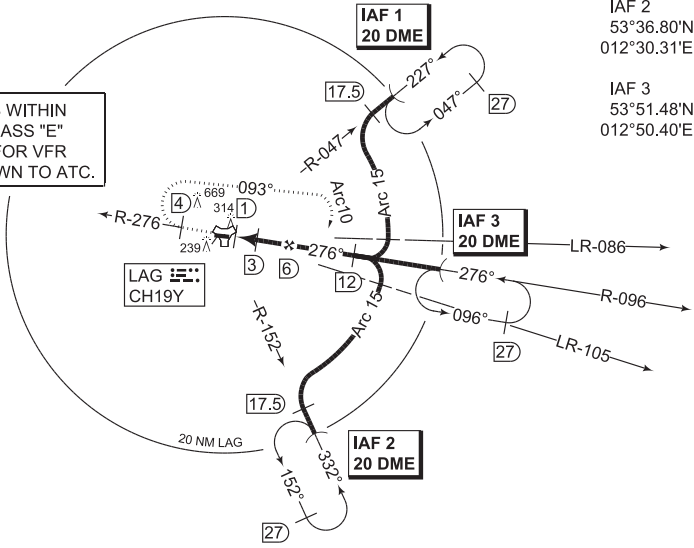
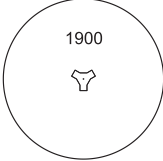
IAF 3
53°51.48'N
012°50.40'E



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

LAG CH19Y

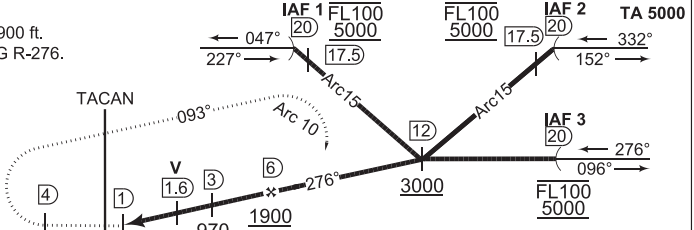
MSA LAG 25 NM



EMERG SAFE ALT 100 NM 3500

MISSED APPROACH

Climb straight ahead to 1900 ft.
Proceed outbound on LAG R-276.
When passing LAG
R-276/4 DME turn right to
track 093°.
Intercept LAG Arc 10 and
return to final.



TDZE 135

5.55

CAT I

CATEGORY	A	B	C	D	E
TACAN 27	530 - 0.8 395 (400-0.8/1.6)		530 - 1.2 395 (400-1.2/1.6)	530 - 1.2 395 (400-1.2/2.0)	530 - 1.6 395 (400-1.6/2.4)
b) CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)		1070 - 4.3 930 (1000-4.3)
PAR 27	335 - 0.8 200 (200-0.8/1.2)				

TACAN RWY 27

53°55.09'N
012°16.76'E

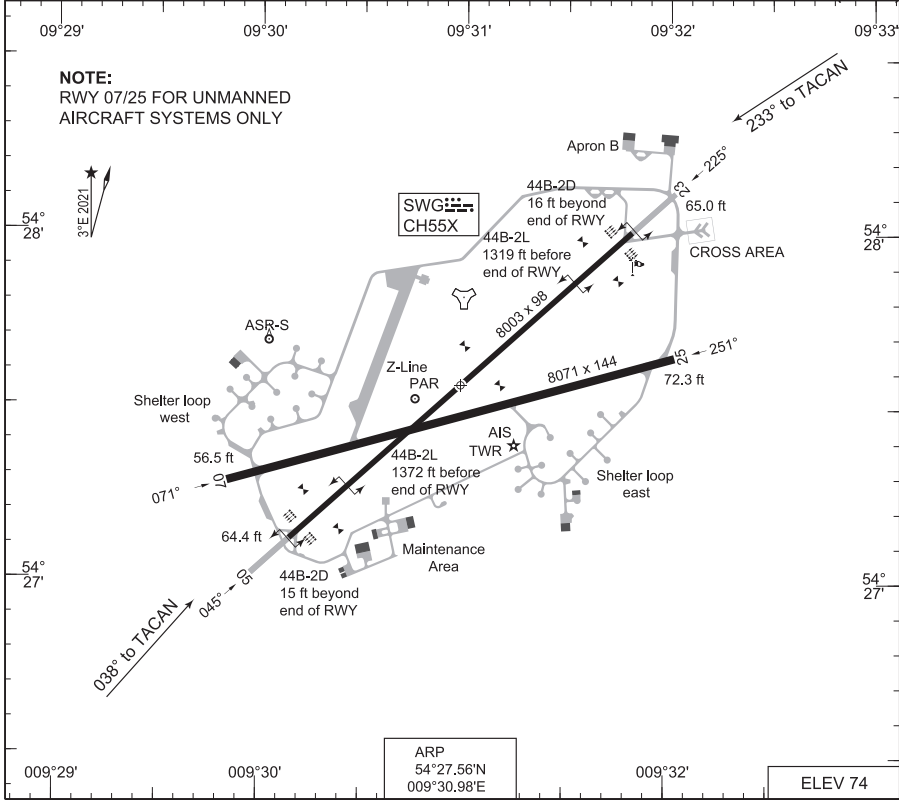
LAAGE (ETNL)

CHANGE: VAR. LR (376/23)

ZentLufTop 28 DEC 2023

AERODROME CHART

SCHLESWIG (ETNS)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
05	54 F/B/W/T	8003	8003	8003	8003	3.0°		70	54°27.12'N 009°30.15'E
23	54 F/B/W/T	8003	8003	8003	8003	3.0°		69	54°28.00'N 009°31.82'E

SCHLESWIG TOWER	246.500	135.155							
SCHLESWIG RADAR	376.825	399.525	388.525	142.050	SSR 4230 - 4237				

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	TERPS	05	3.0°	40		750	ABCDE	TERPS	270 - 0.8 200 (200-0.8/1.2)
	TERPS	23	3.0°	38		750	ABCDE	TERPS	269 - 0.8 200 (200-0.8/1.2)

AERODROME CHART

SCHLESWIG (ETNS)

CHANGE: EDITORIAL (144/23)

ZenitLufOp 13 JUL 2023

PANS-OPS
OPERATIONAL INSTRUMENT DEPARTURE CHART

AD ELEV 74

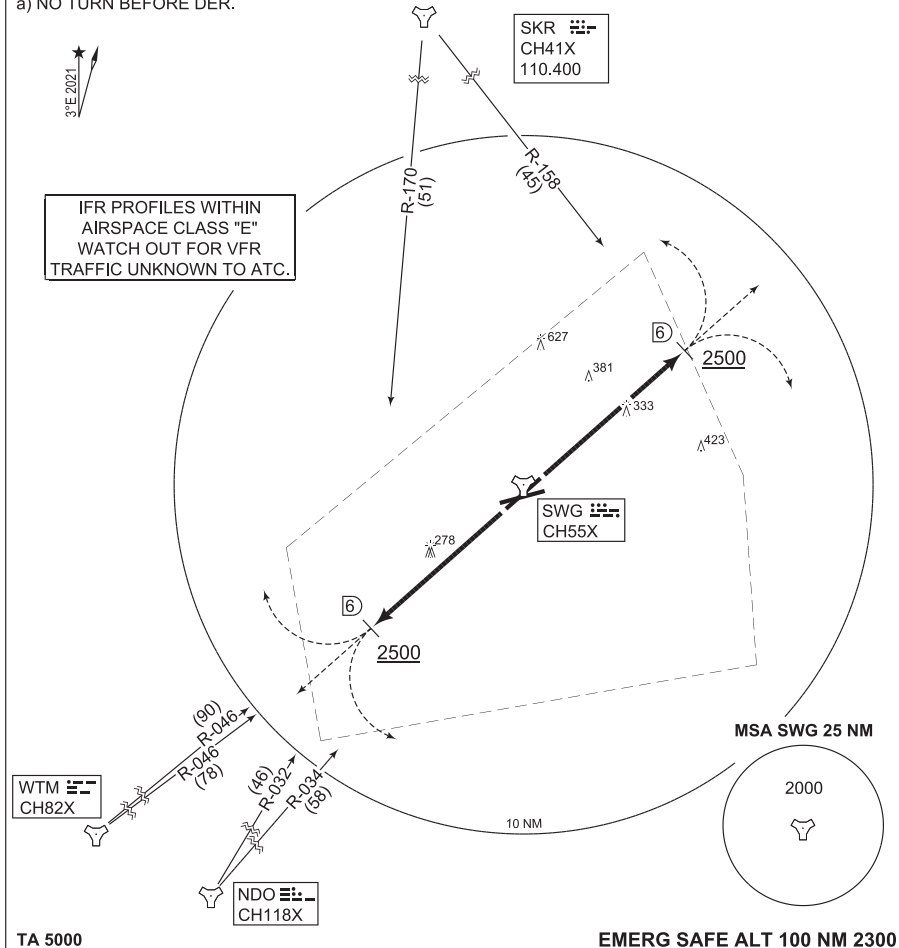
NS 105 - 123
SCHLESWIG (ETNS)

BREMEN RADAR 398.000 124.075	SCHLESWIG RADAR 376.825 142.050	SCHLESWIG TOWER 246.500 135.155					
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RWY	from - to	60	120	180	240	300	360	Reason
05	DER - 3500 ft	437	874	1311	1748	2185	2622	ATC
23	DER - 3500 ft	468	936	1404	1872	2340	2808	ATC

NOTE:

a) NO TURN BEFORE DER.



TA 5000

EMERG SAFE ALT 100 NM 2300

CHANGE: TACAN SKR (414/23)

NS 105 (RWY 05)	<ul style="list-style-type: none"> - Climb straight ahead to 2500 ft - Continue as cleared by ATC <p>CLIMBOUT RESTRICTION: Reach 2500 ft within 6 DME</p> <ul style="list-style-type: none"> - INITIAL CLIMB: 4000 ft
NS 123 (RWY 23)	<ul style="list-style-type: none"> - Climb straight ahead to 2500 ft - Continue as cleared by ATC <p>CLIMBOUT RESTRICTION: Reach 2500 ft within 6 DME</p> <ul style="list-style-type: none"> - INITIAL CLIMB: 4000 ft

NS 105 - 123

54°27.56'N
009°30.98'E

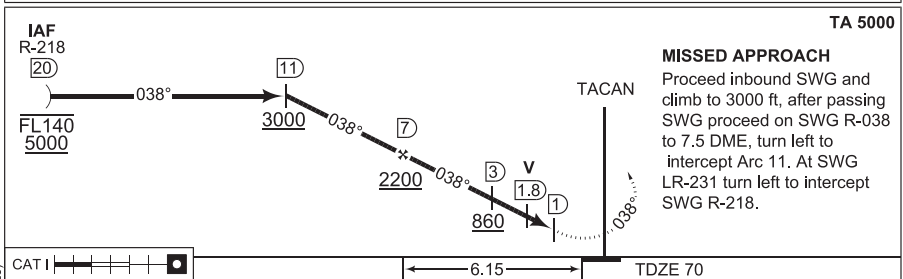
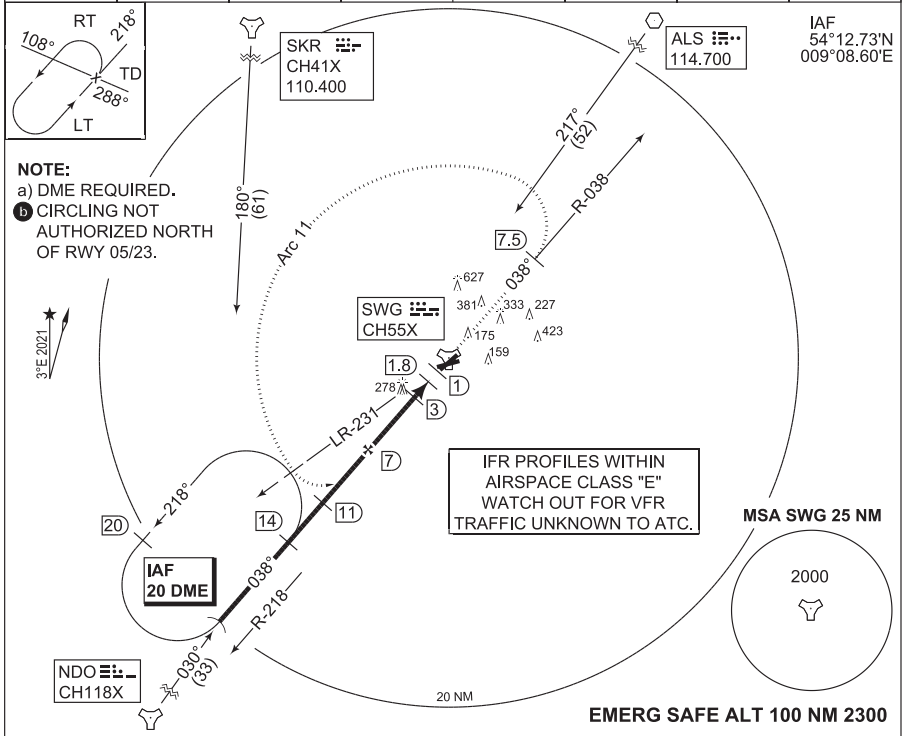
SCHLESWIG (ETNS)

**PANS-OPS
INSTRUMENT APPROACH CHART**

**TACAN RWY 05
SCHLESWIG (ETNS)**

AD ELEV 74

BREMEN RADAR 398.000 124.075		SCHLESWIG RADAR 376.825 142.050			SCHLESWIG TOWER 246.500 135.155		
TACAN SWG CH55X	APP COURSE 038°	FAF ALT 2200	DESCENT GR 3.2° / 5.7%	MDA 420	TDZE 70	ALS-LENGTH 900 M	LDA 8003



CATEGORY	A	B	C	D	E
TACAN 05	420 - 0.8 350 (400-0.8/1.6)		420 - 1.2 350 (400-1.2/1.6)	420 - 1.2 350 (400-1.2/2.0)	
PAR 05	270 - 0.8 200 (200-0.8/1.2) GS 3.0°				
b CIRCLING	530 - 2.1 456 (500-2.1)	580 - 2.4 506 (600-2.4)	790 - 3.3 716 (800-3.3)	NOT AUTHORIZED	

TACAN RWY 05

54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)

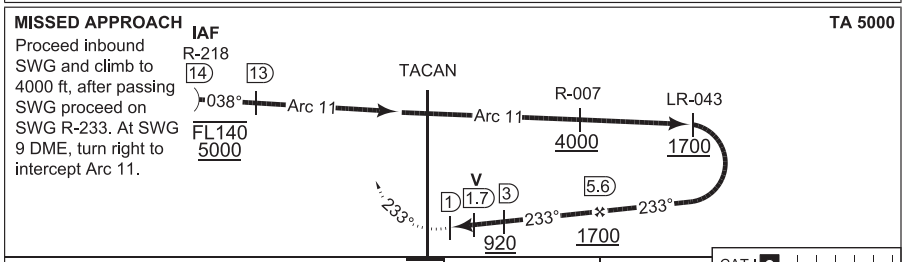
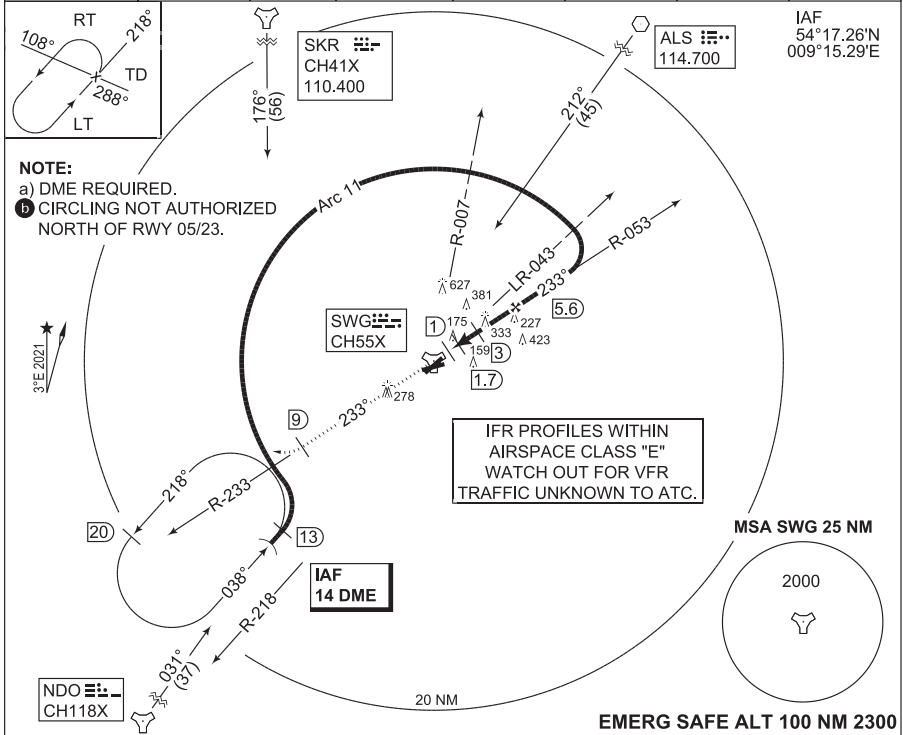
27-3

PANS-OPS INSTRUMENT APPROACH CHART

TACAN RWY 23 SCHLESWIG (ETNS)

AD ELEV 74

BREMEN RADAR 398.000 124.075		SCHLESWIG RADAR 376.825 142.050			SCHLESWIG TOWER 246.500 135.155		
TACAN SWG CH55X	APP COURSE 233°	FAF ALT 1700	DESCENT GR 3.03° / 5.3%	MDA 490	TDZE 69	ALS-LENGTH 900 M	LDA 8003



CATEGORY	A	B	C	D	E
TACAN 23	490 - 0.8 421 (500-0.8/1.6)		490 - 1.2 421 (500-1.2/2.0)		490 - 1.6 421 (500-1.6/2.4)
PAR 23	269 - 0.8 200 (200-0.8/1.2) GS 3.0°				
b CIRCLING	530 - 2.1 456 (500-2.1)	580 - 2.4 506 (600-2.4)	790 - 3.3 716 (800-3.3)	NOT AUTHORIZED	

TACAN RWY 23

SCHLESWIG (ETNS)

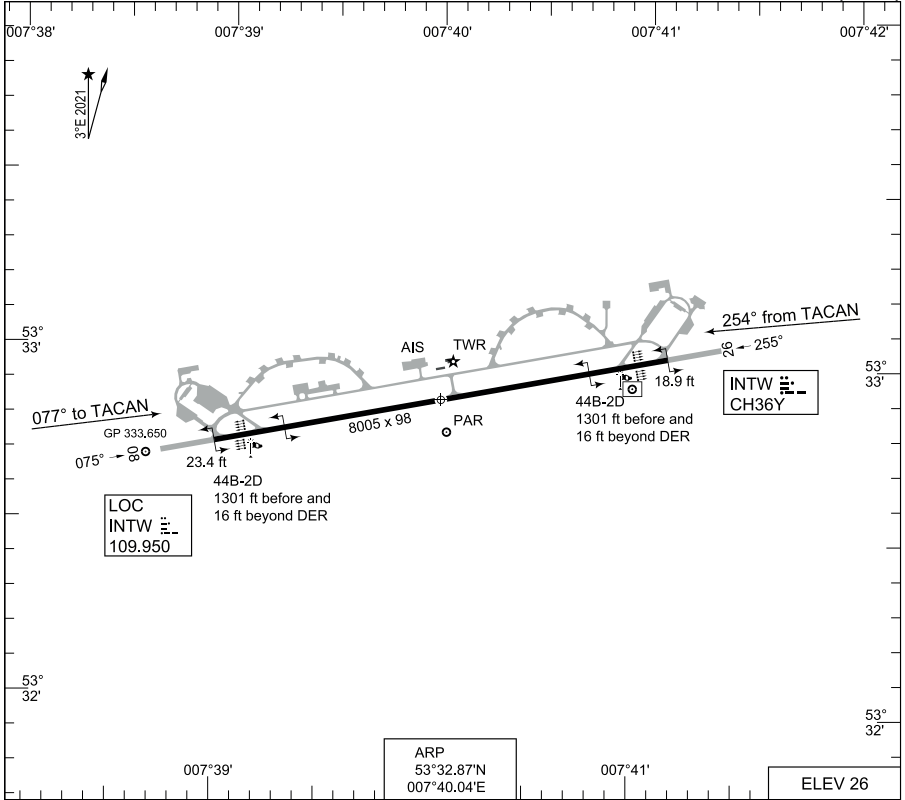
54°27.56'N
009°30.98'E

CHANGE: TACAN SKR (414/23)

ZentLufTop 22 FEB 2024

AERODROME CHART

WITTMUNDHAFEN (ETNT)



RWY	LCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
08	50	8005	8005	8005	8005	3.0°		26	53°32.74'N 007°38.96'E
26	50	8005	8005	8005	8005	3.0°		23	53°33.01'N 007°41.12'E

WITTMUND TOWER 247.950 118.730 122.100
 WITTMUND RADAR 298.250 123.600 131.015 SSR 4210 - 4217

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	TERPS TERPS	08 26	3.0° 3.0°	32 32		584 590	ABCDE ABCDE	TERPS TERPS	226 - 0.8 200 (200-0.8) 223 - 0.8 200 (200-0.8)

AERODROME CHART

WITTMUNDHAFEN (ETNT)



CHANGE: EDITORIAL (005/23)

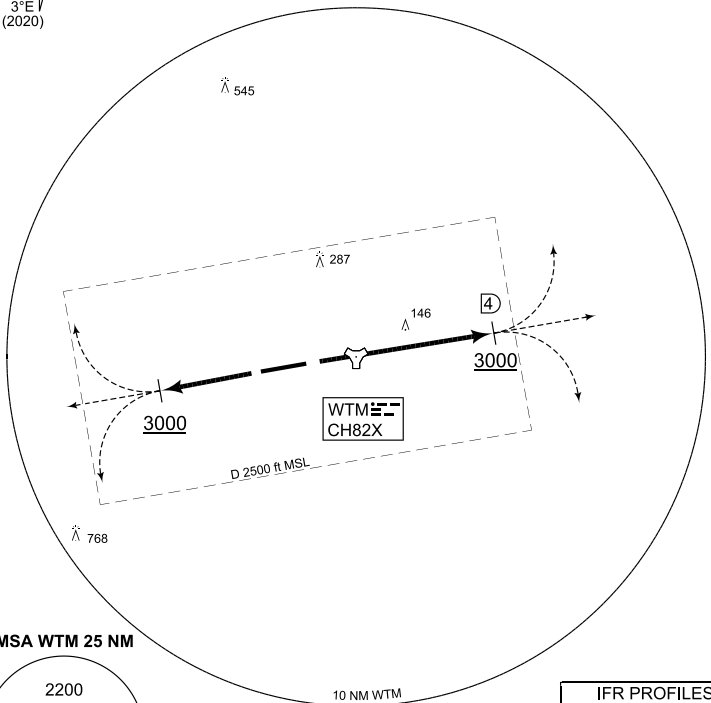
ZentLufOp 23 MAR 2023

PANS-OPS OPERATIONAL INSTRUMENT DEPARTURE CHART **NT 108 - 126 WITTMUNDHAFEN (ETNT)**

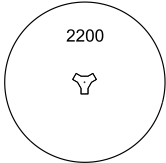
WITTMUND TOWER 247.950 118.730	WITTMUND RADAR 298.250 123.600 131.015	AD ELEV 26	BREMEN RADAR 299.100 120.225	
	RWY	from - to	60 120 180 240 300 360	Reason
	26	DER - 3000 ft	698 1396 2094 2792 3490 4188	ATC
	08	DER - 3000 ft	545 1090 1635 2180 2725 3270	ATC

NOTE:
NT 108 (RWY 08) FOR HOMEBASED AIRCRAFT ONLY

NDO CH118X



MSA WTM 25 NM



IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 2700 **TA 5000**

NT 108 (RWY 08)	<ul style="list-style-type: none"> - Climb straight ahead to WTM/4 DME - Continue as cleared by ATC <p>CLIMBOUT RESTRICTION: Reach 3000 ft within 4 DME</p>
NT 126 (RWY 26)	<ul style="list-style-type: none"> - Climb straight until passing 3000 ft MSL - Continue as cleared by ATC <p>CLIMBOUT RESTRICTION: Reach 3000 ft within 7 DME</p>

CHANGE: OBST (005/23)

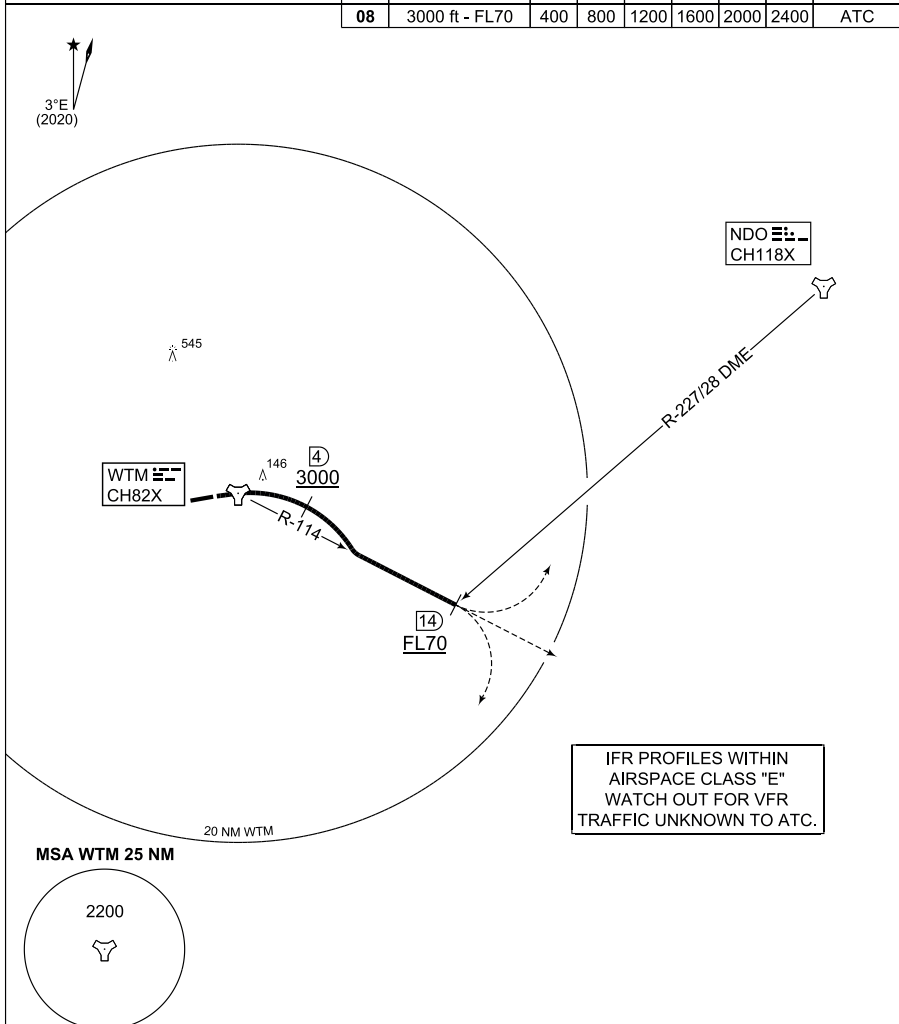
ZentLuitOp 23 MAR 2023

**PANS-OPS
INSTRUMENT DEPARTURE CHART**

AD ELEV 26

**NT 208
WITTMUNDHAFEN (ETNT)**

WITTMUND TOWER 247.950 118.730		WITTMUND RADAR 298.250 123.600 131.015				BREMEN RADAR 299.100 120.225			
RWY	from - to	60	120	180	240	300	360	Reason	
08	DER - 3000 ft	545	1090	1635	2180	2725	3270	ATC	
08	3000 ft - FL70	400	800	1200	1600	2000	2400	ATC	



EMERG SAFE ALT 100 NM 2700 **TA 5000**

NT 208 (RWY 08)	CLIMBOUT RESTRICTION: Pass WTM/4 DME at 3000 ft or above - Climb straight ahead to WTM - At WTM turn right to intercept WTM R-114 - Pass WTM R-114/14 DME at FL070 or as cleared by ATC
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CHANGE: OBST (005/23)

ZentLufOp 23 MAR 2023

NT 208

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)



**PANS-OPS
INSTRUMENT APPROACH CHART**

**TACAN RWY 08
WITTMUNDHAFEN (ETNT)**

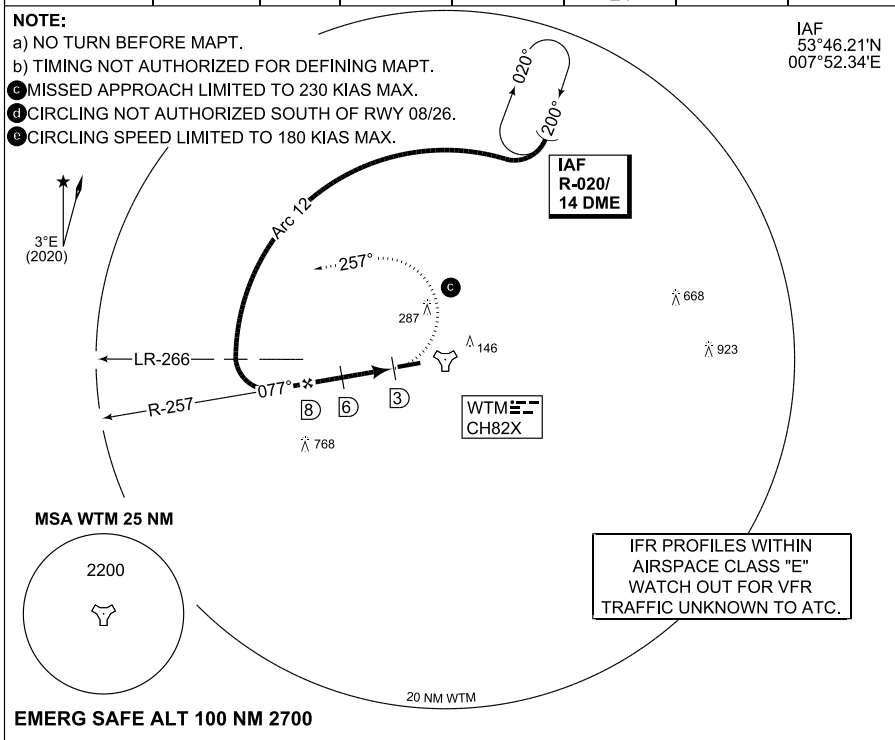
AD ELEV 26

BREMEN RADAR 299.100 120.225		WITTMUND RADAR 298.250 123.600 131.015			WITTMUND TOWER 247.950 118.730 122.100		
TACAN WTM CH82X	APP COURSE 077°	FAF ALT 1700	DESCENT GR 5.2%	MDA 420	THR ELEV 24	ALS-LENGTH 900 M	LDA 8005

NOTE:

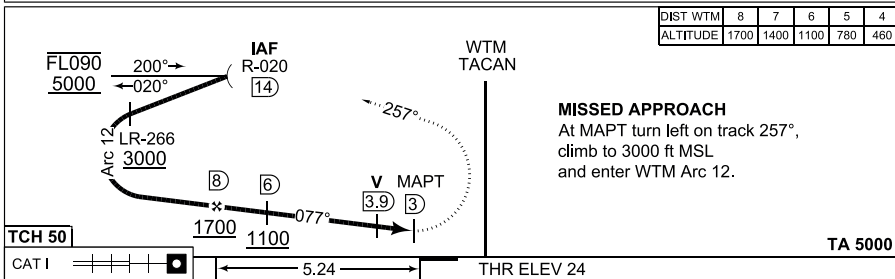
- a) NO TURN BEFORE MAPT.
- b) TIMING NOT AUTHORIZED FOR DEFINING MAPT.
- c) MISSED APPROACH LIMITED TO 230 KIAS MAX.
- d) CIRCLING NOT AUTHORIZED SOUTH OF RWY 08/26.
- e) CIRCLING SPEED LIMITED TO 180 KIAS MAX.

IAF
53°46.21'N
007°52.34'E



EMERG SAFE ALT 100 NM 2700

DIST WTM	8	7	6	5	4
ALTITUDE	1700	1400	1100	780	460



TCH 50	CAT I	5.24	THR ELEV 24	TA 5000
CATEGORY	A	B	C	D
TACAN 08	420 - 1.1 396 (400-1.1/1.5)		420 - 1.1 396 (400-1.1/1.8)	
(d) CIRCLING	490 - 2.2 464 (500-2.2)	560 - 2.4 534 (600-2.4)	1020 - 4.5 994 (1000-4.5)	
(e) PAR 08	226 - 0.8 200 (200-0.8/1.2) GS 3.0°			

CHANGE: OBST (005/23)

ZentLufTop 23 MAR 2023

TACAN RWY 08

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)

**PANS-OPS
INSTRUMENT APPROACH CHART**

**ILS or LOC RWY 26
WITTMUNDHAFEN (ETNT)**

AD ELEV 26

BREMEN RADAR 299.100 120.225		WITTMUND RADAR 298.250 123.600 131.015			WITTMUND TOWER 247.950 118.730 122.100		
TACAN / LOCALIZER CH 82X / INTW 109.95	APP COURSE 255°	GS INTCP ALT 2000	DA See CAT	DESCENT GR 3.0° / 5.2%	THR ELEV 19	ALS-LENGTH 900 M	LDA 8005

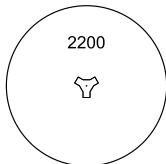
NOTE:

- a) NO TURN BEFORE MAPT.
- b) TIMING NOT AUTHORIZED FOR DEFINING MAPT.
- c) MISSED APPROACH LIMITED TO 230 KIAS MAX.
- d) CIRCLING NOT AUTHORIZED SOUTH OF RWY 08/26.
- e) CIRCLING SPEED LIMITED TO 180 KIAS MAX.

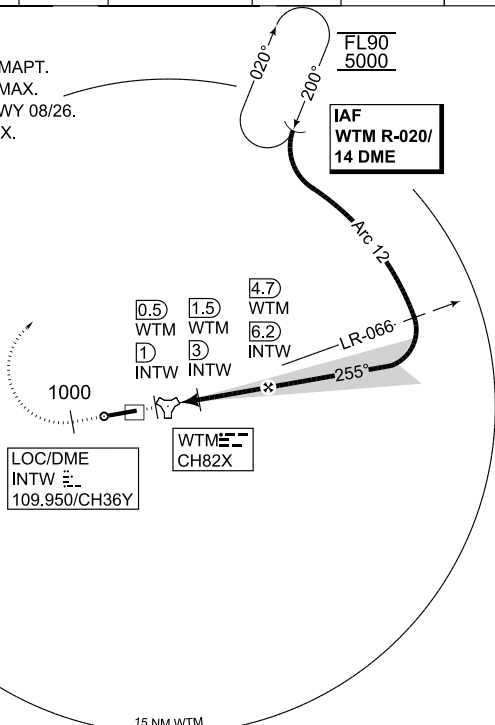


IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

MSA WTM 25 NM

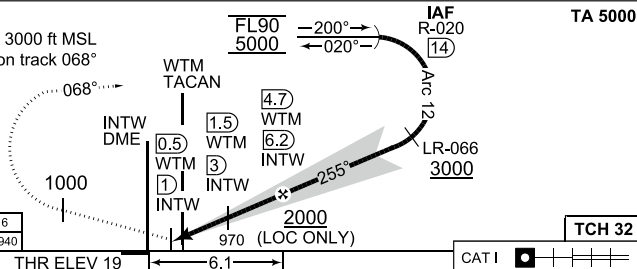


EMERG SAFE ALT 100 NM 2700



MISSED APPROACH

At MAPT climb on RWY track to 3000 ft MSL when passing 1000 ft turn right on track 068° to intercept WTM Arc 12 and return to final.



CHANGE: OBST. ILS GLIDE SLOPE DEPICTION (005/23)

THR ELEV 19	6.1		CAT I	▣	▣	▣	▣
CATEGORY	A	B	C	D			
ILS 26	219 - 0.8 550 200 (200-0.8/1.2)						
LOC 26	490 - 1.5 471 (500-1.5)			490 - 1.5 471 (500-1.5/2.2)			
CIRCLING	490 - 2.2 464 (500-2.2)		560 - 2.4 534 (600-2.4)		1020 - 4.5 994 (1000-4.5)		

ILS or LOC RWY 26

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)



ZentLufTop 23 MAR 2023

**PANS-OPS
INSTRUMENT APPROACH CHART**

**TACAN RWY 26
WITTMUNDHAFEN (ETNT)**

AD ELEV 26

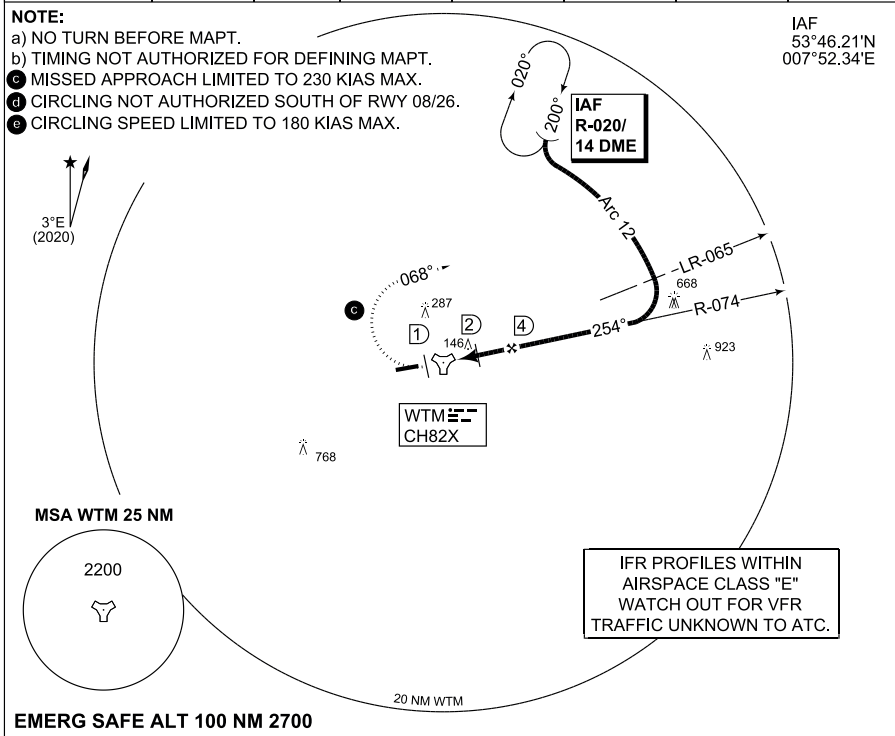
BREMEN RADAR 299.100 120.225		WITTMUND RADAR 298.250 123.600 131.015			WITTMUND TOWER 247.950 118.730 122.100		
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TACAN WTM CH82X	APP COURSE 254°	FAF ALT 1800	DESCENT GR 5.2%	MDA 400	THR ELEV 19	ALS-LENGTH 900 M	LDA 8005
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NOTE:

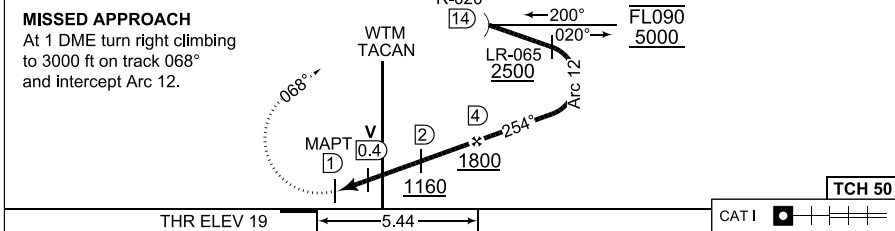
- a) NO TURN BEFORE MAPT.
- b) TIMING NOT AUTHORIZED FOR DEFINING MAPT.
- c) MISSED APPROACH LIMITED TO 230 KIAS MAX.
- d) CIRCLING NOT AUTHORIZED SOUTH OF RWY 08/26.
- e) CIRCLING SPEED LIMITED TO 180 KIAS MAX.

IAF
53°46.21'N
007°52.34'E



EMERG SAFE ALT 100 NM 2700

DIST THR	1	2	3	4	5	6	TA 5000
ALTITUDE	350	670	990	1310	1620	1940	



THR ELEV 19		5.44		CAT I			
CATEGORY	A	B	C	D			
TACAN 26	400 - 1.0 377 (400-1.0/1.5)		400 - 1.0 377 (400-1.0/1.7)				
(d) CIRCLING	490 - 2.2 464 (500-2.2)		560 - 2.4 534 (600-2.4)		1020 - 4.5 994 (1000-4.5)		
(e) PAR 26	223 - 0.8 200 (200-0.8/1.2) GS 3.0°						

TACAN RWY 26 53°32.87'N
007°40.04'E **WITTMUNDHAFEN (ETNT)**

CHANGE: OBST (005/23)

ZentLufTop 23 MAR 2023

RDAF FLIP

Publication dates and editorial deadlines 2024

Publication date: **12**

Editorial deadline: **25**

JAN	FEB	MAR	APR	MAJ	JUN	JUL	AUG	SEP	OKT	NOV	DEC
1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29	29	29	29
30		30	30	30	30	30	30	30	30	30	30
31		31		31		31	31		31		31

INSTRUMENT DEPARTURE OR APPROACH PROCEDURE CHARTS RATE OF CLIMB OR DESCENT TABLE (FEET PR MINUTE)

A rate of climb or descent table is provided for use in planning and execution of climbs or descent under known or approximate ground speed conditions. All figures are rounded up to the nearest 10 feet increment.

CLIMB / DESCENT GRADIENT			GROUND SPEED (KNOTS)										
Deg.	%	FT/ NM	60	90	120	150	180	210	240	270	300	330	360
1.43°	2.50	160	160	230	310	380	460	540	610	690	760	840	920
2.0°	3.49	220	220	320	430	540	640	750	850	960	1070	1170	1280
2.5°	4.37	270	270	400	540	670	800	930	1070	1200	1330	1460	1600
2.75°	4.80	300	300	440	590	730	880	1030	1170	1320	1460	1610	1760
3.0°	5.24	320	320	480	640	800	960	1120	1280	1440	1600	1760	1920
3.5°	6.12	380	380	560	750	930	1120	1310	1490	1680	1860	2050	2230
4.0°	6.99	430	430	640	850	1070	1280	1490	1700	1920	2130	2340	2550
4.5°	7.87	480	480	720	960	1200	1440	1680	1920	2160	2400	2640	2870
5.0°	8.75	540	540	800	1070	1330	1600	1870	2130	2400	2660	2930	3190
5.5°	9.63	590	590	880	1180	1470	1760	2050	2350	2640	2930	3220	3520
6.0°	10.5	640	640	960	1280	1600	1920	2240	2560	2880	3200	3520	3840
6.5°	11.4	700	700	1040	1390	1740	2080	2430	2770	3120	3470	3810	4160
7.0°	12.3	750	750	1120	1500	1870	2240	2620	2990	3360	3740	4110	4480
7.5°	13.2	800	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
8.0°	14.1	860	860	1290	1710	2140	2570	2990	3420	3850	4270	4700	5130
8.5°	14.9	910	910	1370	1820	2280	2730	3180	3640	4090	4550	5000	5450
9.0°	15.8	970	970	1450	1930	2410	2890	3370	3850	4340	4820	5300	5780
9.5°	16.7	1020	1020	1530	2040	2550	3060	3560	4070	4580	5090	5600	6110
10.0°	17.6	1080	1080	1610	2150	2680	3220	3750	4290	4830	5360	5900	6430