

**CENTRAL AND NORTHERN REGION
FLIGHT INFORMATION PUBLICATION**

INSTRUMENT PROCEDURES VOLUME 2

(Germany)

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FOR LATEST INFORMATION SEE NOTAM

GENERAL INFORMATION

Publishing Authority

The "Central and Northern Region Flight Information Publication" (CENOR FLIP) is a standardized joint publication of the Armed Forces of Belgium, Czech Republic, Denmark, Federal Republic of Germany, Norway, Poland and the Netherlands. It comprises three volumes.

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Scope

CENOR FLIP contain authorized aerodrome charts, instrument departure and approach procedures required by the above mentioned armed forces. Each armed force is responsible for the correctness of procedures as agreed.

The authorizing agency and the date of edition shall be marked on every procedure. If the preparing armed force is not identical with the authorizing agency, the source of the procedure will be added to the indication, separated by an oblique stroke.

Basic Specifications

- Altitudes, elevations are expressed in ft above MSL unless indicated otherwise.
- Runway dimensions are shown in feet.
- Distances are expressed in nautical miles.
- Visibility values are expressed in kilometers.
- Runway visual range values are expressed in meters.
- Coordinates published based on WGS-84 (World Geodetic System 1984) unless indicated otherwise.
- Courses, headings, radials and bearings are magnetic unless indicated otherwise.
- Information shown within the distance circle is to scale.
- Climb gradients are related to obstacles unless indicated otherwise.
- Runway gradient in percent published when it exceeds 0.5%.

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BUECKEBURG (ETHB)

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HB 107 - 125	16 APR 2026
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CELLE (ETHC)

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HC 108 - 126	16 APR 2026
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DIEPHOLZ (ETND)

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FASSBERG (ETHS)

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FRITZLAR (ETHF)

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ETHF 1S - 2E	06 AUG 2026
RNP RWY 29	19 FEB 2026
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GEILENKIRCHEN (ETNG)

AERODROME CHART	11 JUN 2026
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RNAV (GNSS) RWY 09	19 FEB 2026
WAYPOINT LIST RWY 09	19 FEB 2026
TACAN RWY 09	19 FEB 2026
RNAV (GNSS) RWY 27	19 FEB 2026
WAYPOINT LIST RWY 27	19 FEB 2026
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HOHN (ETNH)

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TACAN RWY 26	11 JUN 2026
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HOLZDORF (ETSH)

AERODROME CHART	16 APR 2026
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INGOLSTADT/MANCHING (ETSI)

AERODROME CHART	19 FEB 2026
SI 106 - 124	16 APR 2026
SI 206 - 224	16 APR 2026
TACAN RWY 06R	19 FEB 2026
RNAV (GNSS) RWY 06L	19 FEB 2026
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WAYPOINT LIST RWY 06R	19 FEB 2026
IAA RWY 06L	19 FEB 2026
IAA RWY 06R	19 FEB 2026
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TACAN RWY 24R	19 FEB 2026
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IAA RWY 24R	19 FEB 2026

LAAGE (ETNL)

AERODROME CHART	16 APR 2026
GASBO 1E - 1W	16 APR 2026
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TIMIB	16 APR 2026
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ETNL 1N	06 AUG 2026
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ILS or LOC Z RWY 09	16 APR 2026
RNP RWY 09	16 APR 2026
WAYPOINT LIST RNP RWY 09	16 APR 2026
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ILS or LOC Z RWY 27	16 APR 2026
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LAUPHEIM (ETHL)

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PELOG 1B - 1C	06 AUG 2026
LANOK 1B - 1C	06 AUG 2026
OLASO 1B - 1C	06 AUG 2026
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PELOG 1A	19 FEB 2026
RNP RWY 09	19 FEB 2026
WAYPOINT LIST RNP RWY 09	19 FEB 2026
COPTER RNP RWY 09	19 FEB 2026
WAYPOINT LIST COPTER RNP	
RWY 09	19 FEB 2026
COPTER NDB RWY 09	19 FEB 2026
RNP RWY 27	19 FEB 2026
WAYPOINT LIST RNP RWY 27	19 FEB 2026
COPTER RNP RWY 27	19 FEB 2026
WAYPOINT LIST COPTER RNP	
RWY 27	19 FEB 2026
COPTER NDB RWY 27	19 FEB 2026

LECHFELD (ETSL)

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SL 103 - 121	16 APR 2026
RNP RWY 03	16 APR 2026
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RNP RWY 21	16 APR 2026
WAYPOINT LIST RWY 21	16 APR 2026
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ARA/IAA RWY 21	16 APR 2026

NEUBURG (ETSN)

AERODROME CHART	16 APR 2026
ETSN 1H - 2M	16 APR 2026
DONIX 1E - 1W	16 APR 2026
WAYPOINT LIST DONIX 1E - 1W	16 APR 2026
TACAN RWY 09	16 APR 2026
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WAYPOINT LIST RWY 27	16 APR 2026
ILS or LOC RWY 27	16 APR 2026
TACAN RWY 27	16 APR 2026

NIEDERSTETTEN (ETHN)

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RNP RWY 07	19 FEB 2026
WAYPOINT LIST RNP RWY 07	19 FEB 2026
RNP RWY 25	19 FEB 2026
WAYPOINT LIST RNP RWY 25	19 FEB 2026
ILS or LOC RWY 25	19 FEB 2026
COPTER ILS or LOC RWY 25	19 FEB 2026

NOERVENICH (ETNN)

AERODROME CHART	25 DEC 2025
NN 106 - 124	16 APR 2026
NN 224	16 APR 2026
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TACAN RWY 06	25 DEC 2025
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NORDHOLZ (ETMN)

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SCHLESWIG (ETNS)

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WAYPOINT LIST RWY 04	25 DEC 2025
TACAN RWY 04	19 FEB 2026
ARA/IAA RWY 04	25 DEC 2025
RNP RWY 22	25 DEC 2025
WAYPOINT LIST RWY 22	11 JUN 2026
TACAN RWY 22	19 FEB 2026
ARA/IAA RWY 22	25 DEC 2025

WITTMUNDHAFEN (ETNT)

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ETNT 1E - 2W	16 APR 2026
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WAYPOINT LIST RNP RWY 07	06 AUG 2026
TACAN RWY 07	06 AUG 2026
RNP RWY 25	06 AUG 2026
WAYPOINT LIST RNP RWY 25	06 AUG 2026
ILS or LOC RWY 25	06 AUG 2026
TACAN RWY 25	06 AUG 2026

WUNSTORF (ETNW)

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NW 308 - 326	16 APR 2026
CEL 1A - 1B	19 FEB 2026
NIE 1A - 1B	19 FEB 2026
SAS 1A	25 DEC 2025
ROBEG 1A - 1B	19 FEB 2026
VAXEV 1A - 1B	19 FEB 2026
ILS Z or LOC RWY 08	25 DEC 2025
TACAN RWY 02	25 DEC 2025
RNP RWY 02	25 DEC 2025
WAYPOINT LIST RWY 02	25 DEC 2025
TACAN RWY 08	25 DEC 2025
RNP RWY 08	25 DEC 2025
WAYPOINT LIST RWY 08	11 JUN 2026
TACAN RWY 20	25 DEC 2025
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ILS Z or LOC RWY 26	25 DEC 2025
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WAYPOINT LIST RWY 26	25 DEC 2025

ABBREVIATIONS

ICAO and NATO abbreviations are used in the CENOR FLIP.
Additionally the following abbreviations are used.

ASI	Approach slope indicator
Descent GR	Descent gradient for non-precision approach is calculated from FAF or last stepdown fix to THR except for procedures according ICAO PANS-OPS where the Descent Gradient is calculated to 50ft above THR elevation.
HPMA	High performance military aircraft
LOC	Localizer
MAP	Missed approach point (=MAPt)
OTCH	End of overrun crossing height
RDR	RADAR
RPI	Runway point of intercept The point where the straight line extension of the glide slope intercepts the runway surface at runway centerline. Note: The RPI is generally located behind the THR. In exceptional cases only it is located in front of the THR. It is then indicated as follows: + In front of the THR
TDZE	Touchdown zone elevation

IDENTIFICATION OF PROCEDURES

Procedures are designed according criteria as stated on top of the procedure. For detailed info about the criteria the applicable documents should be consulted.

PANS-OPS

Procedures according ICAO Doc 8168 OPS Vol II.

MIPS

Procedures according NATO military instrument procedures standardization implemented by the current version of AATCP-1.

TERPS

Procedures according APATC-1(A). No longer updated after 22 OCT 2008.

NATIONAL XXX

Some nations have a special set of criteria for their procedures. If there are significant deviations from PANS-OPS not covered by the criteria specified above the procedure should be marked "NATIONAL" with the three-letter national code. Planning to fly such procedures, the flight crew must consult the national regulations.

IDENTIFICATION OF MINIMA

Visibility minima are stated on the left side of the minima table. For detailed info about the criteria the applicable documents should be consulted.

EU-OPS

Minima assigned in accordance with EU-OPS.

MIPS

Minima assigned according NATO military instrument procedures standardization implemented by the current version of AATCP-1.

TERPS

Minima assigned according former NATO military criteria (APATC-1(A)). No longer updated after 22 OCT 2008.

NATIONAL XXX

Minima assigned according national specific criteria marked "NATIONAL" with the three-letter national code. Planning to fly such procedures, the flight crew must consult the national regulations.

ALTITUDE CORRECTION

To be used according to national regulations

Pressure Altimeter Errors

International Standard Atmosphere (ISA) is used as a basis for the altitude corrections below. ISA temperature at sea level is +15 degrees Celsius, decreasing 2 degrees 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:

- a) All procedure altitudes below Transition Level (TL), and ATC assigned IFR altitudes, if not already compensated.
- b) 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.

Altitude Correction Chart

A / D TEMP C	HEIGHT ABOVE THE ALTIMETER SOURCE (FEET)											
	200	300	400	500	600	700	800	900	1000	1500	2000	2500
0°	20	20	30	30	40	40	50	50	60	90	120	140
-10°	20	30	40	50	60	70	80	90	100	150	200	240
-20°	30	50	60	70	90	100	120	130	140	210	280	350
-30°	40	60	80	100	120	130	150	170	190	280	380	470
-40°	50	80	100	120	150	170	190	220	240	360	480	600
-50°	60	90	120	150	180	210	240	270	300	450	590	740
	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	
0°	170	200	230	260	280	310	340	370	400	430	460	
-10°	290	340	390	440	490	540	590	640	690	740	790	
-20°	420	500	570	640	710	780	850	930	1000	1070	1150	
-30°	570	660	760	850	950	1050	1140	1240	1340	1440	1540	
-40°	720	840	970	1090	1210	1330	1460	1580	1710	1830	1960	
-50°	890	1040	1190	1340	1500	1650	1800	1960	2110	2270	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. values are calculated with reference to ICAO Doc 8168 Vol 3, Section 2 Chapter 4, and rounded up to nearest 10 ft.

Example: HI-TACAN RWY 10, BARDOFOSS (ENDU), AD elevation 252 ft, AD temperature -30° Celsius.

	Published ALT	HAA	*Correction	**Indicated ALT
20 DME	6000	5748	1100	7100
15 DME	4900	4648	900	5800
12 DME	4000	3748	720	4800
FAF	3100	2848	540	3700
6 DME	1900	1648	320	2300
MDA	1420	1168	240	1660

* Rounded up to next 20ft. ** Altitude to be flown. Rounded up to next higher 100ft increment, except DA/MDA.

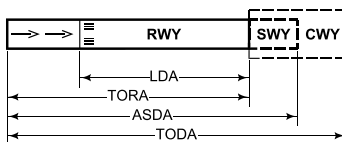
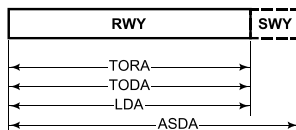
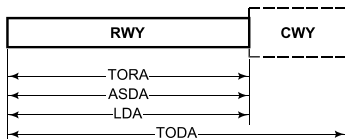
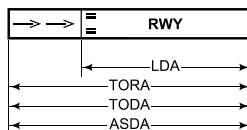
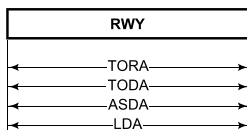
Wind Induced Altimeter Errors

Strong winds moving over mountain crests and ridges causes local drops in static pressure (known as the Bernoulli effect), which may induce pressure altimeter errors (altimeter showing higher than actual altitude). As these errors will vary greatly with aircraft position relative to terrain, it is not possible to make an exact calculation, but the pilot in command will be responsible for evaluating whether a correction would be necessary.

ZentrLuftOp 25 DEC 2025



DETERMINATION OF DECLARED DISTANCES FOR RUNWAYS



SWY

Stopway

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

CWY

Clearway

A defined rectangular area on the ground or water at the end of a runway in the direction of takeoff 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 m either side of extended runway centerline and not longer than half length of runway).

TORA

Takeoff Run Available

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

TODA

Takeoff Distance Available

The length of the takeoff run available plus the length of the clearway, if provided.

ASDA

Accelerate Stop Distance Available

The length of the takeoff run available plus the length of the stopway, if provided.

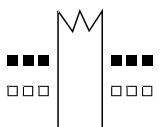
LDA

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.

VASIS / PAPI

(V) VASI (VISUAL APPROACH SLOPE INDICATOR)



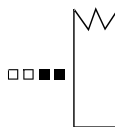
On correct approach path

□ White ■ Red

Visual Approach Slope Indicator with standard threshold clearance provided.

All lights WHITE - TOO HIGH
Far lights RED, near lights WHITE - ON GLIDE SLOPE
All lights RED - TOO LOW

(P) PAPI (PRECISION APPROACH PATH INDICATOR)



On correct approach path

□ White ■ Red

■ ■ ■ ■ TOO LOW
□ ■ ■ ■ SLIGHTLY LOW
□ □ ■ ■ ON CORRECT APPROACH PATH
□ □ □ ■ SLIGHTLY HIGH
□ □ □ □ TOO HIGH

PAPI display consists of a 4-light wing-bar on one side of the runway and adjacent to the touchdown point. A symmetrical PAPI display consists of a 4-light wing-bar on each side of the runway.

LOAD CLASSIFICATION NUMBER

At some aerodromes the load-bearing strength of runways/taxiways is defined by Load Classification Numbers (LCN). The LCN has to be determined for the aircraft concerned and compared with the specific runway LCN. Normally the LCN of an aircraft should not exceed that of the runway on which a landing is intended. Exceptions may be allowed by the person responsible for the performance of flight operations.

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.

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 for GAF aircraft are given in the Flight Manuals for rigid and flexible pavements.

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:

- PCN number
- Type of pavement
 - R = Rigid
 - F = Flexible
- Pavement sub-grade category
 - A = High
 - B = Medium
 - C = Low
 - D = Ultra-Low
- 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
- Pavement evaluation method
 - T = Technical evaluation
 - U = By experience of aircraft using the pavement

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:

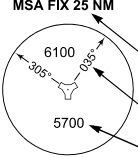
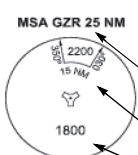
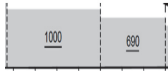
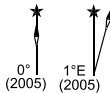
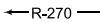
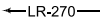
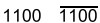
PCN: 80 / R / B / W / T

Operating procedure

Provided a pavement PCN is equal to or greater than the ACN of the aircraft unlimited use of the pavement is permitted.

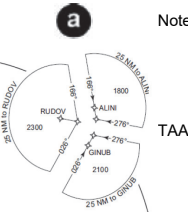
Provided the PCN is smaller than the ACN the use of the pavement by an aircraft can only be undertaken when prior permission of the individual aerodrome authority is granted or by reduction of the aircraft load.

LEGEND

	VOR		HIRTA (with obstruction unlighted)
	DME		HIRTA (with obstruction lighted)
	VOR/DME		HIRTA High intensity radio transmission area
	TACAN		HIRTA lateral limits
	VORTAC		Power Transmission Line
	NDB		MSA FIX 25 NM Minimum Sector Altitude (MSA) 25NM radius Identification of Radio Navigational Facility Sector Boundary Minimum sector Altitude (MSA)
	VFR Reporting Point / Intersection On Request Fly-By		MSA GZR 25 NM Minimum Sector Altitude (MSA) 25NM radius Identification of Radio Navigational Facility Sector Boundary 15 NM awa from Beacon Minimum sector Altitude (MSA)
	VFR Reporting Point / Intersection Compulsory Fly-By		
	VFR Reporting Point / Intersection On Request Fly-Over		
	VFR Reporting Point / Intersection Compulsory Fly-Over		
	Waypoint On Request Fly-By		
	Waypoint Compulsory Fly-By		
	Waypoint On Request Fly-Over		
	Waypoint Compulsory Fly-Over		
	DME Mileage		Minimum obstacle clearance Altitude
	Abandoned or closed Aerodrome		Danger Area (ED-D) Restricted Area (ED-R) Prohibited Area (ED-P)
	Aerodrome Beacon		
	Procedural Track		Variation 0° (2005) 1°E (2005)
	Radial		
	Lead Radial		
	Mandatory Level / Recommended Level		International Border
	Minimum Level / Maximum Level		FIR
	Spot Elevation		Control Zone (CTR)
	Obstruction (unlighted)		Not to Scale
	Group of Obstructions (unlighted)		000.000x Frequency available on request
	Obstruction (lighted)		ARP
	Group of Obstructions (lighted)		
	HIRTA (no obstruction)		

	Distance
	Initial Approach Fix
	Missed Approach
	Procedure Turn
	Fix / Turning Point
	Penetration Track
	operates not continuously
	Final Approach Fix (FAF) (Non precision approaches)
	Visual Descent Point (VDP)
	Transition Route
	Supplementary Route
	Final Approach Course from IAF to main Radio NavAid or ARP
	Standard Holding Pattern
	Holding Fix (If holding fix conform to IAF, IAF symbol is to be used.)
	Glide Slope Intercept Altitude
	ILS
	Locator at OM
	MM
	OM
	General symbol for radio facilities
	Radar reflector
	VASIS / PAPI
	Displaced Threshold
	INS Position
	Closed runway or taxiway TWY

Uni-directional / Bi-directional Cable
The cables are displayed with regard to the direction of their arresting capabilities (uni-/bi-directional) irrespective of flight operational restrictions.



	Turning Point (turn when..)
	Net
	Taxiway designation
	ABN
	Holding Points
	Helicopter Landing Area
	Supervision office
	Wind sock (unlighted, lighted)
	RWY (hard surface)
	RWY (unpaved surface)
	RWY (unpaved surface) with unpaved surface beyond RWY extremities
	RWY (hard surface) with hard surface beyond RWY extremities
	RWY (hard surface) with unpaved surface beyond RWY extremities
	TWY or apron (hard surface)
	Building

APPROACH LIGHTING SYSTEM



Threshold (ALS no flashing lights)
Threshold (ALS with flashing lights)



Lights on extended rwy center line
1 row
2 rows
3 rows or more



Crossbar

NO LIGHTS

No ALS

UNKNOWN

Type of ALS unknown

S-ALS

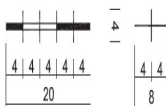


Example

CAT ..



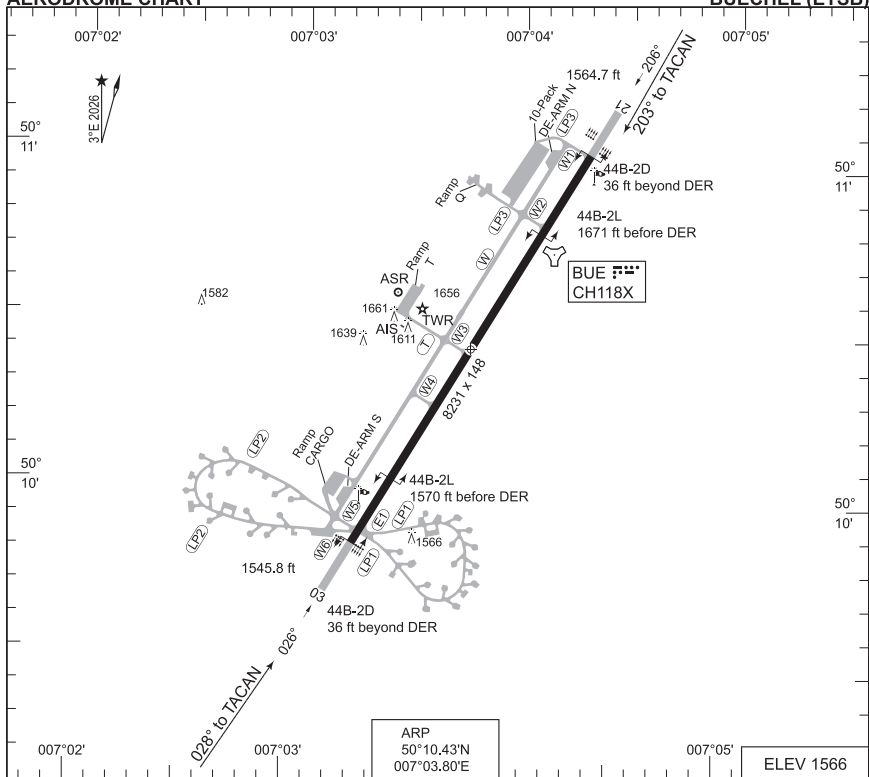
Example



Row of lights on the extended centre line of RWY

AERODROME CHART

BUECHEL (ETSB)

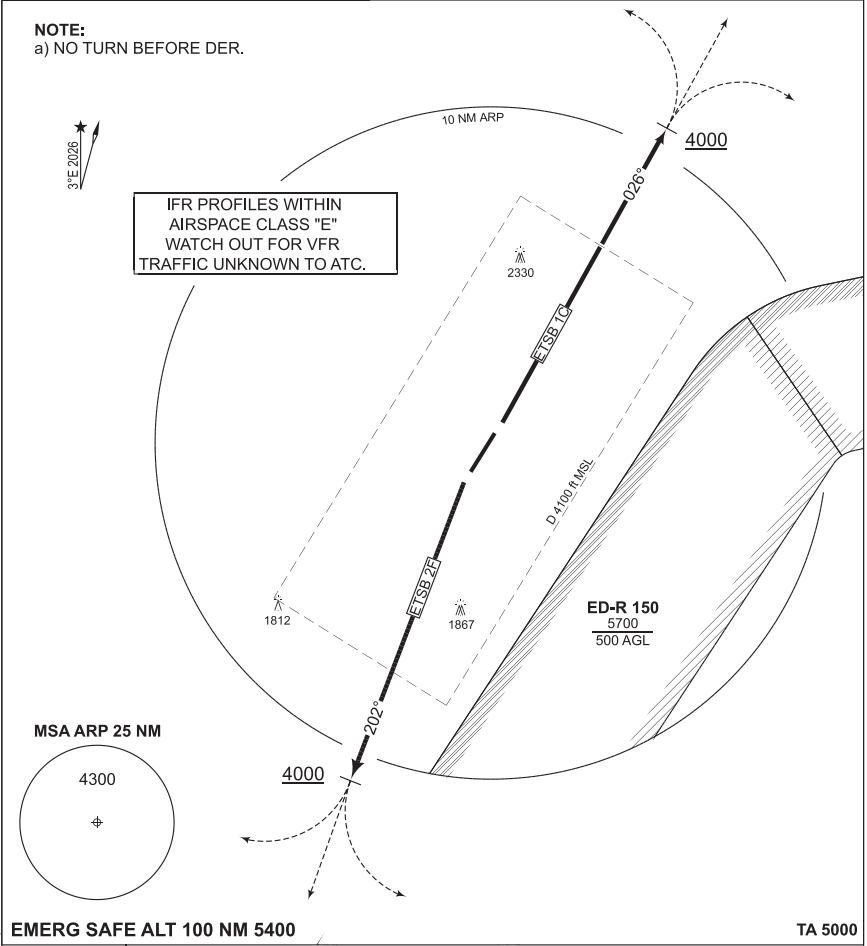


RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
03	117 F/A/W/T	8231	8231	8231	8231	3.0°		1560	50°09.84'N 007°03.29'E
21	117 F/A/W/T	8231	8231	8231	8231	3.0°		1565	50°11.02'N 007°04.32'E

BUECHEL TOWER 282.200 257.800 129.060
 BUECHEL RADAR 242.400 344.625 389.225 378.375 130.155 SSR 6150 - 6157

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	03	3.0°			917.67	ABCD	MIPST	1746 - 0.8 550 200 (200-0.8/1.2)
	PANS-OPS	21	3.0°			1026.11	ABCD	MIPST	1765 - 0.8 550 200 (200-0.8/1.2)

BUECHEL TOWER			BUECHEL RADAR					LANGEN RADAR			
282.200	129.060	242.400	344.625	389.225	130.155			375.700	125.600		
			RWY	from - to	60	120	180	240	300	360	Reason
			03	DER - 4000 ft	213	426	639	852	1056	1278	OBST



ETSB 1C (RWY 03)	- Climb on track 026° to 4000 ft or above - Continue as cleared by ATC
ETSB 2F (RWY 21)	- Climb on track 202° to 4000 ft or above - Continue as cleared by ATC

CHANGE: REVISED CHART (125/26)

ACC 11 JUN 2026

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 1566

TACAN RWY 03
BUECHEL (ETSB)

LANGEN RADAR		BUECHEL RADAR			BUECHEL TOWER		
375.700	125.600	242.400	344.625	389.225	378.375	282.200	129.060
TACAN BUE CH118X	APP COURSE 028°	FAF ALT 2800	DESCENT GR 3.0° (5.2%/316 ft/NM)	MDA 1900	THR ELEV 1546	ALS-LENGTH 900 M	LDA 8226

NOTE:

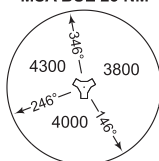
- TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- MISSED APCH TURN LIMITED TO 250 KIAS MAX.
- NO TURN BEFORE MAPT.
- CIRCLING NOT AUTHORIZED WEST OF RWY
- HPMA

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

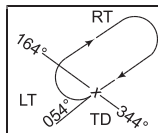
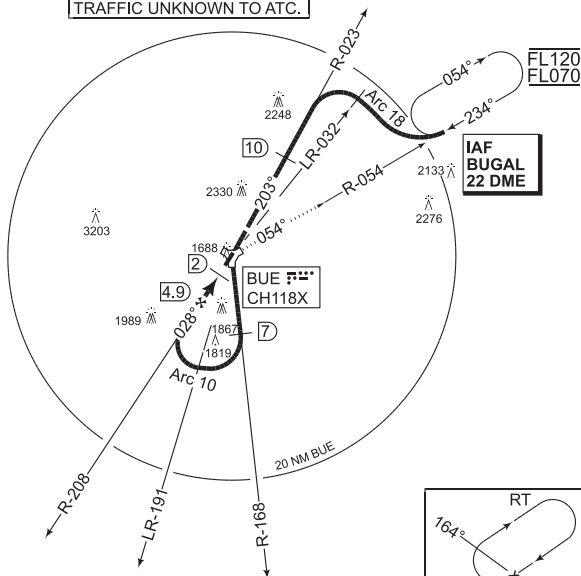
IAF
50°22.40'N
007°32.69'E



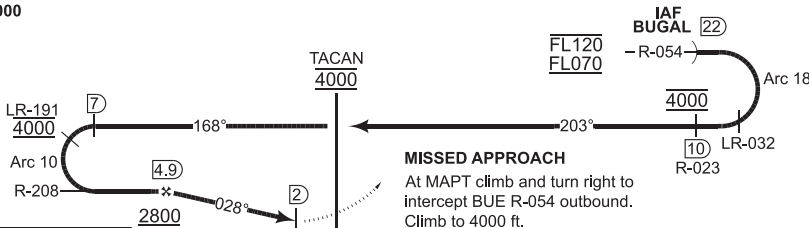
MSA BUE 25 NM



EMERG SAFE ALT 100 NM 5400



TA 5000



MISSED APPROACH

At MAPT climb and turn right to intercept BUE R-054 outbound. Climb to 4000 ft.

CAT I	3.8	THR ELEV 1546
-------	-----	---------------

CATEGORY	A	B	C	D
TACAN 03	1900 - 0.9 355 (400-0.9/1.6)			
CIRCLING	1970 - 1.9 403 (500 - 1.9)	2200 - 2.9 633 (700 - 2.9)	2380 - 3.8 813 (900 - 3.8)	2280 - 3.2 713 (800 - 3.2)

CHANGE: DISTANCE FAF (152/26)

TACAN RWY 03

50°10.43'N
007°03.80'E

BUECHEL (ETSB)

ACC 06 AUG 2026

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 1566

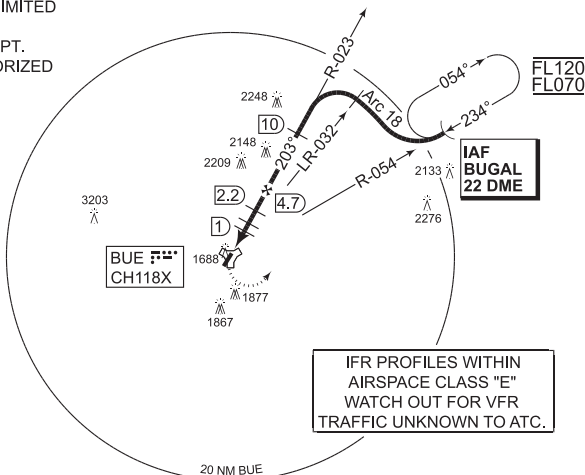
TACAN RWY 21
BUECHEL (ETSB)

LANGEN RADAR 375.700 125.600		BUECHEL RADAR 242.400 344.625 389.225 378.375				BUECHEL TOWER 282.200 129.060	
TACAN BUE CH118X	APP COURSE 203°	FAF ALT 3000	DESCENT GR 3.0° (5.2%/316 ft/NM)	MDA 1910	THR ELEV 1565	ALS-LENGTH 900 M	LDA 8231

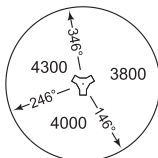
NOTE:

- TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- MISSED APCH TURN LIMITED TO 250 KIAS MAX.
- NO TURN BEFORE MAPT.
- CIRCLING NOT AUTHORIZED WEST OF RWY
- HPMA

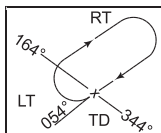
IAF
50°22.40'N
007°32.69'E



MSA BUE 25 NM

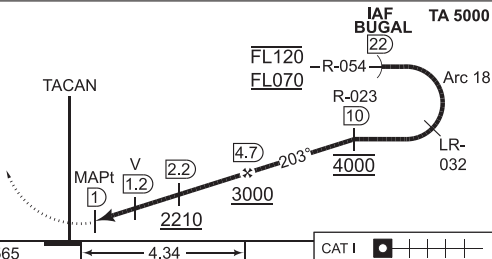


EMERG SAFE ALT 100 NM 5400



MISSED APPROACH

At MAPT climb and turn left to intercept BUE R-054 outbound.
Climb to 4000 ft.



CATEGORY	A	B	C	D
TACAN 21	1910 - 0.9 345 (400 - 0.9/1.6)			
CIRCLING	1970 - 1.9 403 (500 - 1.9)	2200 - 2.9 633 (700 - 2.9)	2380 - 3.8 813 (900 - 3.8)	2280 - 3.2 713 (800 - 3.3)

CHANGE/REVISED CHART (105/26)

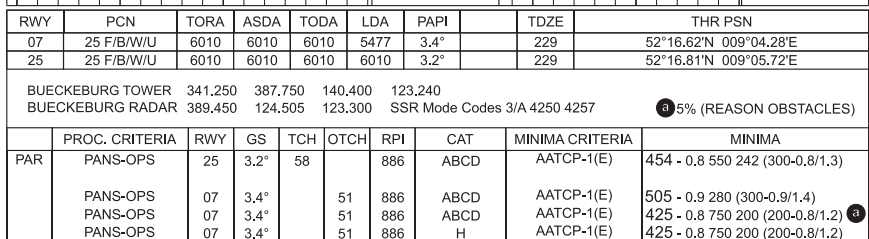
TACAN RWY 21

50°10.43'N
007°03.80'E

BUECHEL (ETSB)

ACC 11 JUN 2026

BUECKEBURG (ETHB)



ACC 16 APR 2026

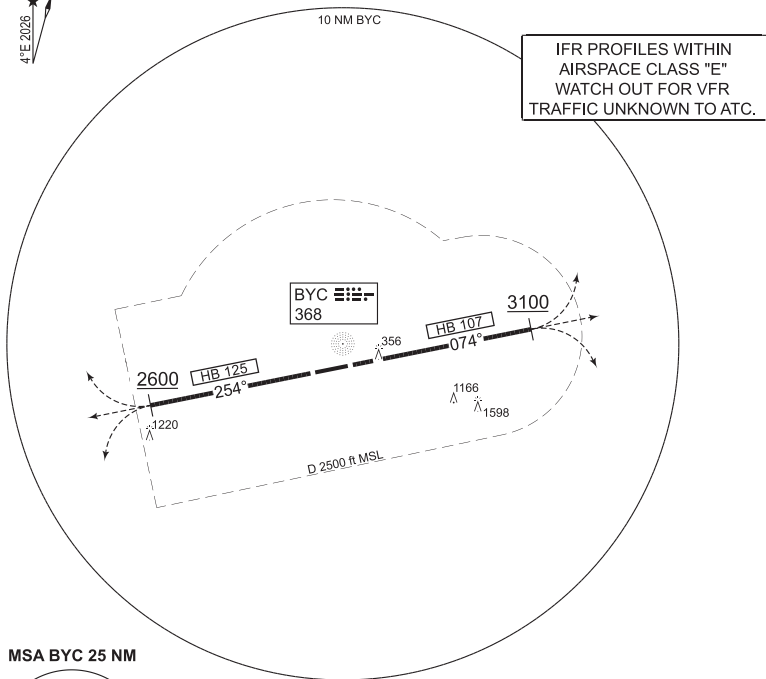
BUECKEBURG (ETHB)

INSTRUMENT DEPARTURE CHART

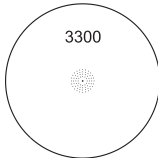
AD ELEV 229

BUECKEBURG (ETHB)

BUECKEBURG TOWER			BUECKEBURG RADAR				BREMEN RADAR					
341.250	140.400	123.240		389.450	124.505	123.300		259.725	119.490			
				RWY	from - to	60	120	180	240	300	360	Reason
				07	DER - 3100	370	730	1100	1460	1830	2190	OBST
				25	DER - 2600	370	730	1100	1460	1830	2190	OBST



MSA BYC 25 NM



EMERG SAFE ALT 100 NM 6100

TA 5000

HB 107 (RWY 07)	- Climb on track 074° altitude 3100. - Continue as cleared by ATC.
HB 125 (RWY 25)	- Climb on track 254° altitude 2600. - Continue as cleared by ATC.

CHANGE: EDITORIAL (083/26)

HB 107 - 125

52°16.71'N
009°04.93'E

BUECKEBURG (ETHB)

ACC 16 APR 2026

PANS-OPS INSTRUMENT APPROACH CHART

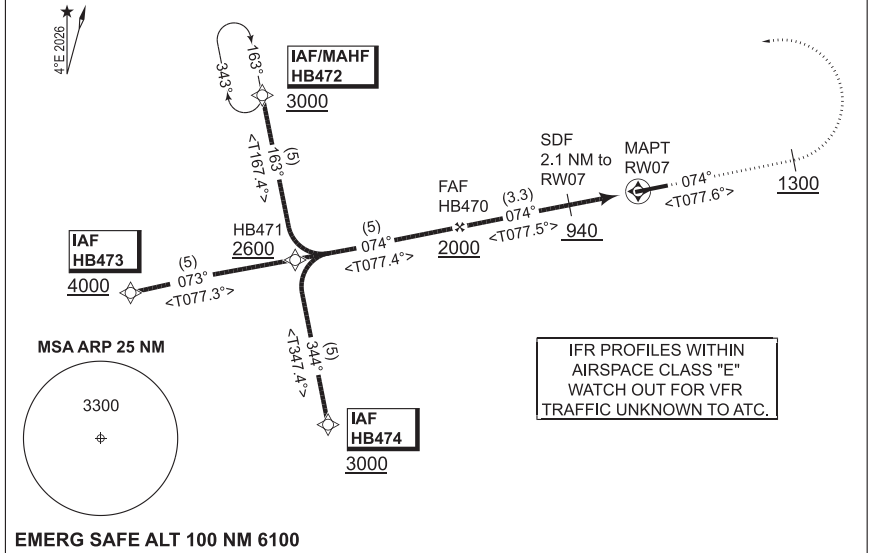
AD ELEV 229

RNP RWY 07
BUECKEBURG (ETHB)

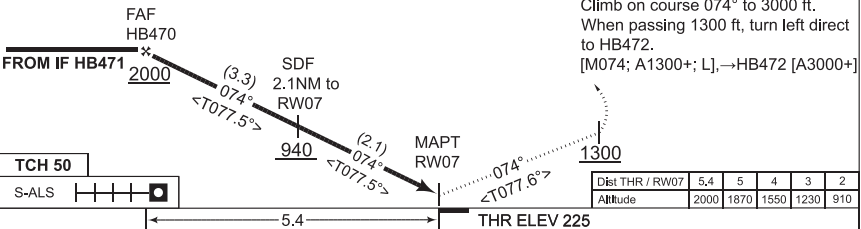
BREMEN RADAR 259.725 119.490		BUECKEBURG RADAR 389.450 124.505		BUECKEBURG TOWER 341.250 140.400 123.240		
APP COURSE 074°	FAF ALT 2000	GS 3.0° / 5.2%	MDA/DA See CAT	THR ELEV 225	ALS 590 M	LDA 5476

NOTE:

- a) CIRCLING NOT AUTHORIZED SOUTH OF RWY 07/25.
- b) GNSS ONLY.
- c) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
- d) DISREGARD PAPI



TA 5000



CATEGORY	A	B	C
LNNAV 2.5%	800 - 1.5 575 (600-1.5/1.5)	830 - 1.5 605 (700-1.5/1.5)	850 - 2.5 625 (700-2.4/2.4)
LNNAV 5%	600 - 1.3 375 (400-1.3/1.5)		600 - 1.3 375 (400-1.3/1.7)
LNNAV/VNAV 5%	481 - 0.8 256 (300-0.8/1.3)	493 - 0.9 268 (300-0.9/1.3)	502 - 0.9 277 (300-0.9/1.3)
a) CIRCLING	820 - 2.7 591 (600-2.7)	1020 - 3.6 791 (800-3.6)	1170 - 4.3 941 (1000-4.3)

RNP RWY 07

52°16.71'N
009°04.93'E

BUECKEBURG (ETHB)

RNP RWY 07 from HB472

	CODING	DISPLAY
HB472 (IAF)	52 19 14.12 N 008 45 57.31 E	52 19.235 N 008 45.955 E
HB471 (IF)	52 14 21.80 N 008 47 44.20 E	52 14.363 N 008 47.737 E
HB470 (FAF)	52 15 27.04 N 008 55 40.59 E	52 15.451 N 008 55.677 E
RW07 (MAPT)	52 16 37.10 N 009 04 17.07 E	52 16.618 N 009 04.285 E
HB472 (MAHF)	52 19 14.12 N 008 45 57.31 E	52 19.235 N 008 45.955 E

RNP RWY 07 from HB473

	CODING	DISPLAY
HB473 (IAF)	52 13 16.03 N 008 39 48.20 E	52 13.267 N 008 39.803 E
HB471 (IF)	52 14 21.80 N 008 47 44.20 E	52 14.363 N 008 47.737 E
HB470 (FAF)	52 15 27.04 N 008 55 40.59 E	52 15.451 N 008 55.677 E
RW07 (MAPT)	52 16 37.10 N 009 04 17.07 E	52 16.618 N 009 04.285 E
HB472 (MAHF)	52 19 14.12 N 008 45 57.31 E	52 19.235 N 008 45.955 E

RNP RWY 07 from HB474

	CODING	DISPLAY
HB474 (IAF)	52 09 29.44 N 008 49 30.71 E	52 09.491 N 008 49.512 E
HB471 (IF)	52 14 21.80 N 008 47 44.20 E	52 14.363 N 008 47.737 E
HB470 (FAF)	52 15 27.04 N 008 55 40.59 E	52 15.451 N 008 55.677 E
RW07 (MAPT)	52 16 37.10 N 009 04 17.07 E	52 16.618 N 009 04.285 E
HB472 (MAHF)	52 19 14.12 N 008 45 57.31 E	52 19.235 N 008 45.955 E

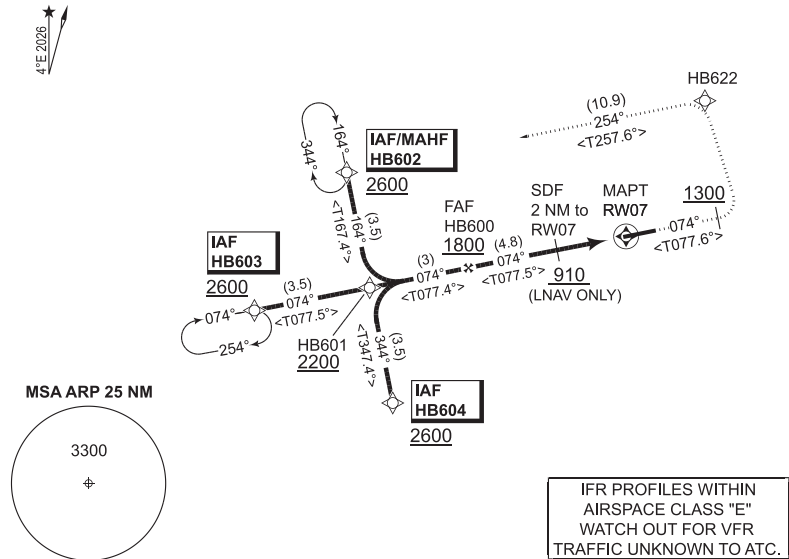
Threshold Coordinates

RWY 07	52 16 37.10 N 009 04 17.07 E	52 16.618 N 009 04.285 E
--------	------------------------------	--------------------------

BREMEN RADAR 259.725 119.490		BUECKEBURG RADAR 389.450 124.505		BUECKEBURG TOWER 341.250 140.400		
APP COURSE 074°	FAF ALT 1800	GS 3.0° / 5.2%	MDA/DA See CAT	THR ELEV 225	ALS 590 m	LDA 5476

NOTE:

- a) SENSOR: GNSS ONLY.
- b) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
- c) DISREGARD PAPI

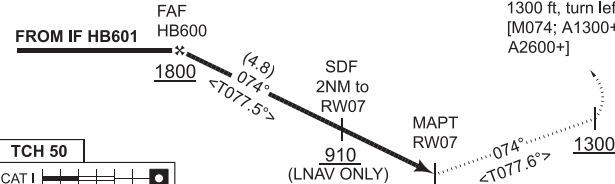


EMERG SAFE ALT 100 NM 6100

TA 5000

MISSED APPROACH

Climb on course 074° to 2600 ft. When passing 1300 ft, turn left direct to HB622, to HB602, [M074; A1300+; L],→HB622; HB602 [M254; A2600+]



TCH 50

CAT I

CATEGORY	H
LNAV	560 - 1.2 355 (500-1.2/1.5)
LNAV/VNAV	475 - 0.8 250 (300-0.8/1.3)

COPTER RNP RWY 07 from HB602

	CODING	DISPLAY
HB602 (IAF)	52 18 20.75 N 008 50 40.04 E	52 18.346 N 008 50.667 E
HB601 (IF)	52 14 56.08 N 008 51 54.57 E	52 14.935 N 008 51.910 E
HB600 (FAF)	52 15 35.15 N 008 56 40.47 E	52 15.586 N 008 56.675 E
RW07 (MAPT)	52 16 37.10 N 009 04 17.07 E	52 16.618 N 009 04.285 E
HB622 (TF)	52 20 41.73 N 009 07 58.97 E	52 20.696 N 009 07.983 E
HB602 (MAHF)	52 18 20.75 N 008 50 40.04 E	52 18.346 N 008 50.667 E

COPTER RNP RWY 07 from HB603

	CODING	DISPLAY
HB603 (IAF)	52 14 10.79 N 008 46 21.01 E	52 14.180 N 008 46.350 E
HB601 (IF)	52 14 56.08 N 008 51 54.57 E	52 14.935 N 008 51.910 E
HB600 (FAF)	52 15 35.15 N 008 56 40.47 E	52 15.586 N 008 56.675 E
RW07 (MAPT)	52 16 37.10 N 009 04 17.07 E	52 16.618 N 009 04.285 E
HB622 (TF)	52 20 41.73 N 009 07 58.97 E	52 20.696 N 009 07.983 E
HB602 (MAHF)	52 18 20.75 N 008 50 40.04 E	52 18.346 N 008 50.667 E

COPTER RNP RWY 07 from HB604

	CODING	DISPLAY
HB604 (IAF)	52 11 31.40 N 008 53 08.91 E	52 11.523 N 008 53.149 E
HB601 (IF)	52 14 56.08 N 008 51 54.57 E	52 14.935 N 008 51.910 E
HB600 (FAF)	52 15 35.15 N 008 56 40.47 E	52 15.586 N 008 56.675 E
RW07 (MAPT)	52 16 37.10 N 009 04 17.07 E	52 16.618 N 009 04.285 E
HB622 (TF)	52 20 41.73 N 009 07 58.97 E	52 20.696 N 009 07.983 E
HB602 (MAHF)	52 18 20.75 N 008 50 40.04 E	52 18.346 N 008 50.667 E

Threshold Coordinates

RWY 07	52 16 37.10 N 009 04 17.07 E	52 16.618 N 009 04.285 E
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PANS-OPS INSTRUMENT APPROACH CHART

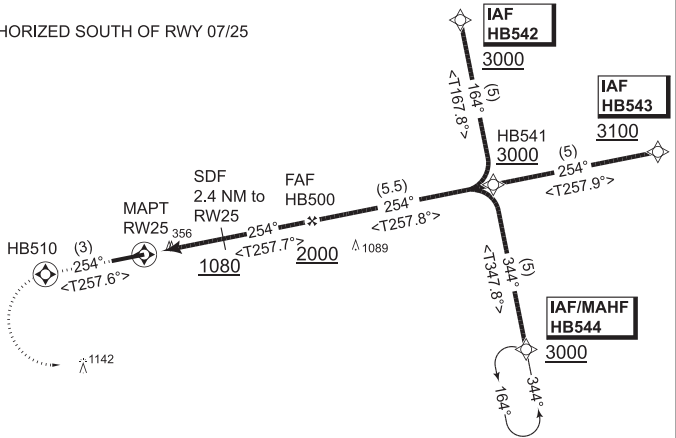
AD ELEV 229

RNP RWY 25
BUECKEBURG (ETHB)

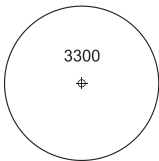
BREMEN RADAR 259.725 119.490		BUECKEBURG RADAR 389.450 124.505		BUECKEBURG TOWER 341.250 140.400 123.240		
APP COURSE 254°	FAF ALT 2000	GS 3.2°/5.6%	MDA/DA See CAT	THR ELEV 213	ALS 900 M	LDA 6010

NOTE:

- a) GNSS ONLY.
- b) CIRCLING NOT AUTHORIZED SOUTH OF RWY 07/25



MSA ARP 25 NM



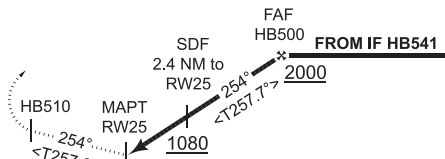
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 6100

MISSED APPROACH

Climb on course 254° to HB510,
direct to HB544, climb to 3000 ft or above.
HB510 [M254;L], → HB544 [A3000+]

TA 5000



Dist THR / RW25	2	3	4	5.1
Altitude	950	1290	1630	2000

THR ELEV 213

TCH 54

CAT I

CATEGORY	A	B	C
LNAV	970 - 1.5 757 (800-1.5/1.5)	970 - 2.4 757 (800-2.4/2.4)	
b) CIRCLING	970 - 3.6 741 (800-3.6)	1020 - 3.6 791 (800-3.6)	1170 - 4.3 941 (1000-4.3)

RNP RWY 25

52°16.71'N
009°04.93'E

BUECKEBURG (ETHB)

CHANGE: TWR FREQ. HOLDING, ALS (106/26); MINIMA (124/26)

ACC 11 JUN 2026

RNP RWY 25 from HB544

	CODING	DISPLAY
HB544 (IAF)	52 14 11.07 N 009 24 18.37 E	52 14.185 N 009 24.306 E
HB541 (IF)	52 19 03.93 N 009 22 35.42 E	52 19.065 N 009 22.590 E
HB500 (FAF)	52 17 54.08 N 009 13 50.00 E	52 17.901 N 009 13.833 E
RW25 (MAPT)	52 16 48.71 N 009 05 43.07 E	52 16.812 N 009 05.718 E
HB510 (TP)	52 16 10.00 N 009 00 56.91 E	52 16.167 N 009 00.949 E
HB544 (MAHF)	52 14 11.07 N 009 24 18.37 E	52 14.185 N 009 24.306 E

RNP RWY 25 from HB543

	CODING	DISPLAY
HB543 (IAF)	52 20 06.87 N 009 30 33.47 E	52 20.114 N 009 30.558 E
HB541 (IF)	52 19 03.93 N 009 22 35.42 E	52 19.065 N 009 22.590 E
HB500 (FAF)	52 17 54.08 N 009 13 50.00 E	52 17.901 N 009 13.833 E
RW25 (MAPT)	52 16 48.71 N 009 05 43.07 E	52 16.812 N 009 05.718 E
HB510 (TP)	52 16 10.00 N 009 00 56.91 E	52 16.167 N 009 00.949 E
HB544 (MAHF)	52 14 11.07 N 009 24 18.37 E	52 14.185 N 009 24.306 E

RNP RWY 25 from HB542

	CODING	DISPLAY
HB542 (IAF)	52 23 56.76 N 009 20 52.09 E	52 23.946 N 009 20.868 E
HB541 (IF)	52 19 03.93 N 009 22 35.42 E	52 19.065 N 009 22.590 E
HB500 (FAF)	52 17 54.08 N 009 13 50.00 E	52 17.901 N 009 13.833 E
RW25 (MAPT)	52 16 48.71 N 009 05 43.07 E	52 16.812 N 009 05.718 E
HB510 (TP)	52 16 10.00 N 009 00 56.91 E	52 16.167 N 009 00.949 E
HB544 (MAHF)	52 14 11.07 N 009 24 18.37 E	52 14.185 N 009 24.306 E

Threshold Coordinates

RWY 25	52 16 48.71 N 009 05 43.07 E	52 16.812 N 009 05.718 E
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PANS-OPS INSTRUMENT APPROACH CHART

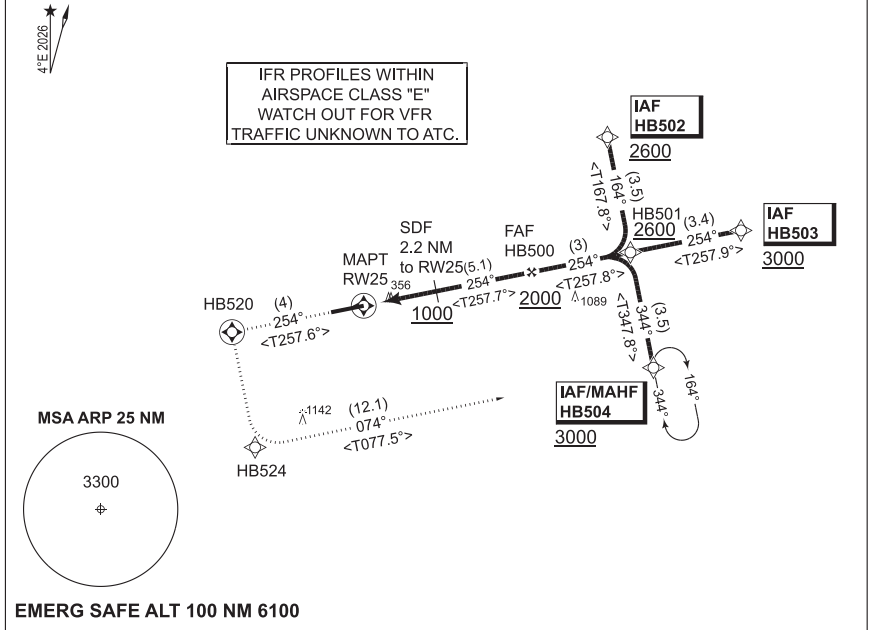
AD ELEV 229

COPTER RNP RWY 25
BUECKEBURG (ETHB)

BREMEN RADAR 259.725 119.490		BUECKEBURG RADAR 389.450 124.505		BUECKEBURG TOWER 341.250 140.400		
APP COURSE 254°	FAF ALT 2000	GS 3.2°/ 5.6%	MDA/DA See CAT	THR ELEV 213	ALS 900 m	LDA 6010

NOTE:

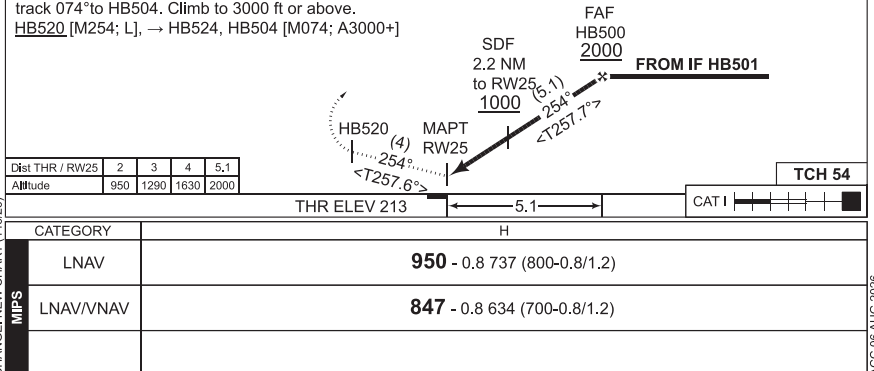
- a) SENSOR: GNSS ONLY.
- b) BARO-VNAV NOT AUTHORIZED BELOW -30°C.



MISSED APPROACH

Climb on course 254° to HB520, direct to HB524, on track 074° to HB504. Climb to 3000 ft or above.
HB520 [M254; L], → HB524, HB504 [M074; A3000+]

TA 5000



COPTER RNP RWY 25

52°16.71'N
009°04.93'E

BUECKEBURG (ETHB)

COPTER RNP RWY 25 from HB504

	CODING	DISPLAY
HB504 (IAF)	52 15 07.30 N 009 19 48.93 E	52 15.122 N 009 19.816 E
HB501 (IF)	52 18 32.26 N 009 18 36.54 E	52 18.538 N 009 18.609 E
HB500 (FAF)	52 17 54.08 N 009 13 50.00 E	52 17.901 N 009 13.833 E
RW25 (MAPT)	52 16 48.71 N 009 05 43.07 E	52 16.812 N 009 05.718 E
HB520 (TP)	52 15 57.05 N 008 59 21.56 E	52 15.951 N 008 59.359 E
HB524 (TP)	52 12 32.30 N 009 00 35.44 E	52 12.538 N 009 00.591 E
HB504 (MAHF)	52 15 07.30 N 009 19 48.93 E	52 15.122 N 009 19.816 E

COPTER RNP RWY 25 from HB503

	CODING	DISPLAY
HB503 (IAF)	52 19 14.53 N 009 23 57.38 E	52 19.242 N 009 23.956 E
HB501 (IF)	52 18 32.26 N 009 18 36.54 E	52 18.538 N 009 18.609 E
HB500 (FAF)	52 17 54.08 N 009 13 50.00 E	52 17.901 N 009 13.833 E
RW25 (MAPT)	52 16 48.71 N 009 05 43.07 E	52 16.812 N 009 05.718 E
HB520 (TP)	52 15 57.05 N 008 59 21.56 E	52 15.951 N 008 59.359 E
HB524 (TP)	52 12 32.30 N 009 00 35.44 E	52 12.538 N 009 00.591 E
HB504 (MAHF)	52 15 07.30 N 009 19 48.93 E	52 15.122 N 009 19.816 E

COPTER RNP RWY 25 from HB502

	CODING	DISPLAY
HB502 (IAF)	52 21 57.20 N 009 17 23.95 E	52 21.953 N 009 17.399 E
HB501 (IF)	52 18 32.26 N 009 18 36.54 E	52 18.538 N 009 18.609 E
HB500 (FAF)	52 17 54.08 N 009 13 50.00 E	52 17.901 N 009 13.833 E
RW25 (MAPT)	52 16 48.71 N 009 05 43.07 E	52 16.812 N 009 05.718 E
HB520 (TP)	52 15 57.05 N 008 59 21.56 E	52 15.951 N 008 59.359 E
HB524 (TP)	52 12 32.30 N 009 00 35.44 E	52 12.538 N 009 00.591 E
HB504 (MAHF)	52 15 07.30 N 009 19 48.93 E	52 15.122 N 009 19.816 E

Threshold Coordinates

RWY 25	52 16 48.71 N 009 05 43.07 E	52 16.812 N 009 05.718 E
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PANS-OPS INSTRUMENT APPROACH CHART

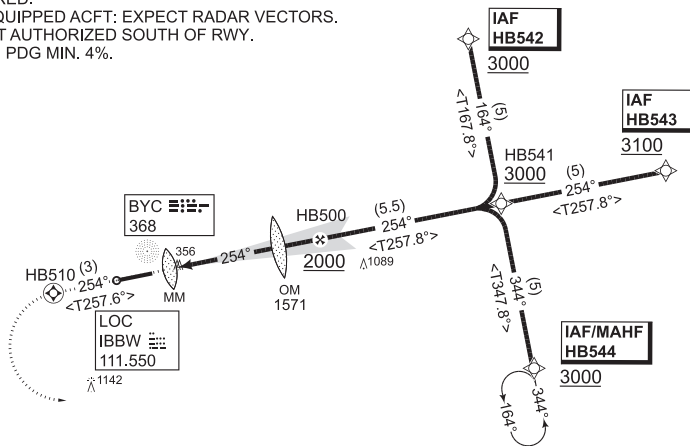
AD ELEV 229

ILS RWY 25
BUECKEBURG (ETHB)

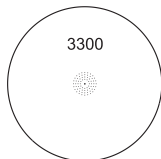
BREMEN RADAR 259.725 119.490		BUECKEBURG RADAR 389.450 124.505		BUECKEBURG TOWER 341.250 140.400 123.240		
LOCALIZER IBBW 111.550	APP COURSE 254°	GS 3.2°	DA See CAT	THR ELEV 213	ALS-LENGTH 900 M	LDA 6010

NOTE:

- a) GNSS REQUIRED.
- b) NON RNAV EQUIPPED ACFT: EXPECT RADAR VECTORS.
- c) CIRCLING NOT AUTHORIZED SOUTH OF RWY.
- d) MISSED APCH PDG MIN. 4%.



MSA BYC 25 NM



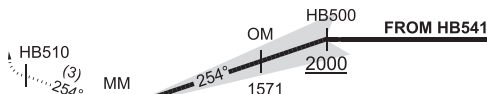
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 6100

MISSED APPROACH d

Climb on track 254° to HB510. Turn left
direct to HB544, climb to 3000 ft or above.
HB510 [M254;L]→HB544 [A3000+]

TA 5000



TCH 54

THR ELEV 213

5.1

CAT I

MPS	CATEGORY	A	B	C
	ILS 25 MA 2.5%	753 - 1.5 540 (600-1.5)	766 - 1.5 553 (600-1.5)	774 - 1.9 561 (600-1.9/2.4)
	ILS 25 MA 4%	486 - 0.8/600 273 (300-0.8/1.3)	498 - 0.8/650 285 (300-0.8/1.4)	506 - 0.8/650 293 (300-0.8/1.4)
	c CIRCLING	820 - 2.7 591 (600-2.7)	1020 - 3.6 791 (800-3.6)	1170 - 4.3 941 (1000-4.3)

ILS RWY 25

52°16.71'N
009°04.93'E

BUECKEBURG (ETHB)

PANS-OPS INSTRUMENT APPROACH CHART

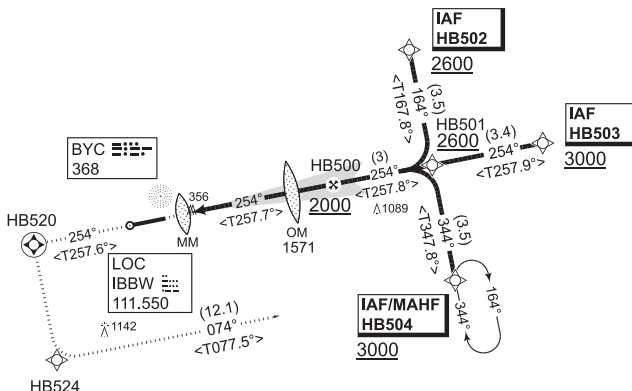
AD ELEV 229

COPTER ILS RWY 25
BUECKEBURG (ETHB)

BREMEN RADAR 259.725 119.490		BUECKEBURG RADAR 389.450 124.505		BUECKEBURG TOWER 341.250 140.400			
LOCALIZER IBBW 111.550	APP COURSE 254°	GS INTCP ALT 2000	GS 3.2°	DA 463	THR ELEV 213	ALS-LENGTH 900 m	LDA 6010

NOTE:

- GNSS REQUIRED.
- NON RNAV EQUIPPED ACFT: EXPECT RADAR VECTORS.

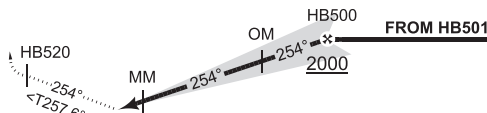


IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

MISSED APPROACH

Climb on track 254° to HB520, direct to HB524,
on track 074° to HB504. Climb to 3000ft or above.
HB520 [M254;L]→HB524, HB504 [M074; A3000+]

TA 5000



TCH 54

THR ELEV 213

5.1

CAT I

CATEGORY

H

COPTER ILS 25

463 - 0.8/550 250 (300-0.8/1.2)

CHANGE: NEW CHART (146/26)

MP5

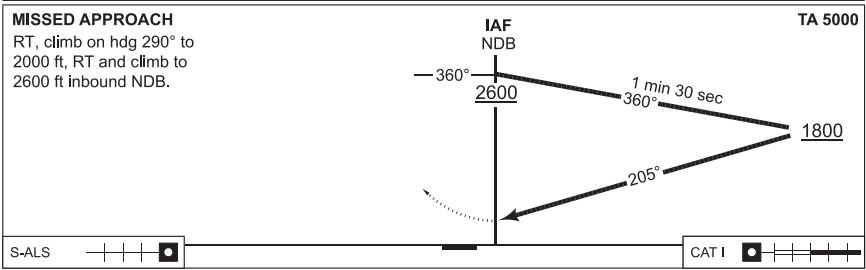
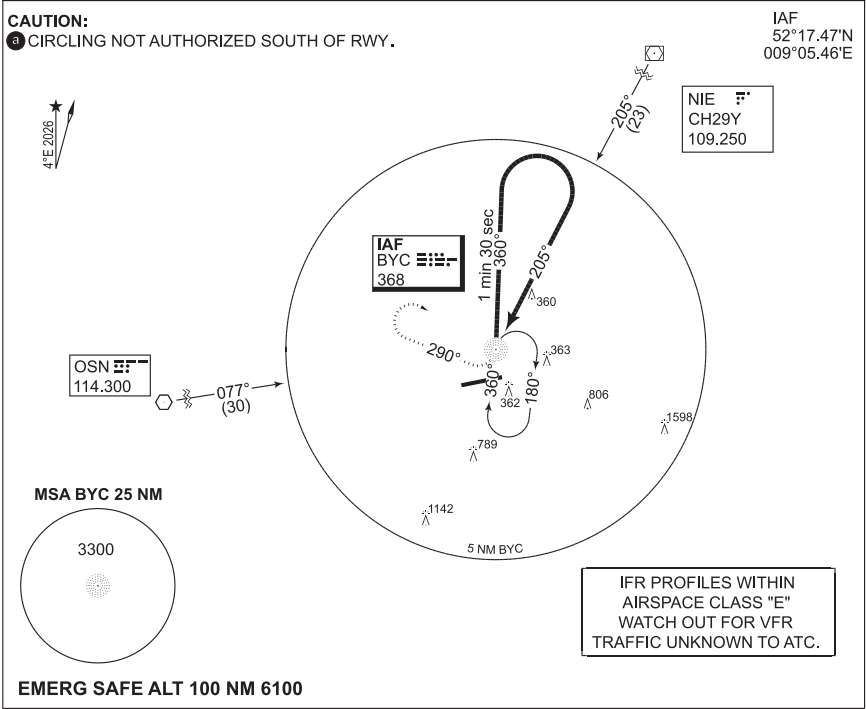
ACC 06 AUG 2026

COPTER ILS RWY 25

52°16.71'N
009°04.93'E

BUECKEBURG (ETHB)

BREMEN RADAR 259.725 119.490		BUECKEBURG RADAR 389.450 124.505		BUECKEBURG TOWER 341.250 140.400 123.240	
NDB BYC 368	APP COURSE 205°	MDA 820	ALS-LENGTH 590 M / 900 M	LDA 5476 / 6010	



CATEGORY		A
a CIRCLING	820 - 2.7 591 (600-2.7)	

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 229

NDB B
BUECKEBURG (ETHB)

BREMEN RADAR 259.725 119.490		BUECKEBURG RADAR 389.450 124.505		BUECKEBURG TOWER 341.250 140.400 123.240	
NDB BYC 368	APP COURSE 205°	MDA 820	ALS-LENGTH 590 M/900 M	LDA 5476/6010	

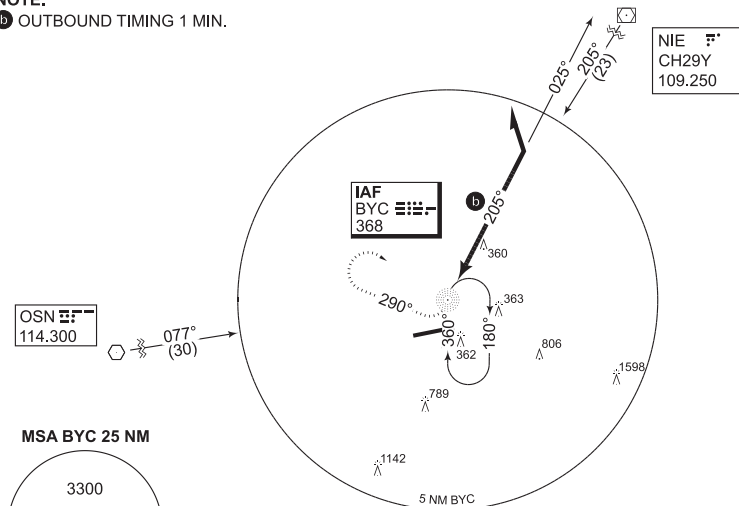
CAUTION:

a CIRCLING NOT AUTHORIZED SOUTH OF RWY.

IAF
52°17.47'N
009°05.46'E

NOTE:

b OUTBOUND TIMING 1 MIN.

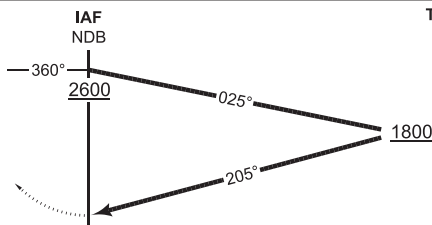


IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 6100

MISSED APPROACH
RT, climb on hdg 290° to
2000 ft, RT and climb to
2600 ft inbound NDB.

TA 5000



S-ALS ☐ ☒

CAT I ☒ ☐ ☐ ☐ ☐

CATEGORY	A
a CIRCLING	820 - 2.7 591 (600-2.7)

CHANGE: MINIMA (124/26)

MIPS

NDB B

52°16.71'N
009°04.93'E

BUECKEBURG (ETHB)

ACC 11 JUN 2026

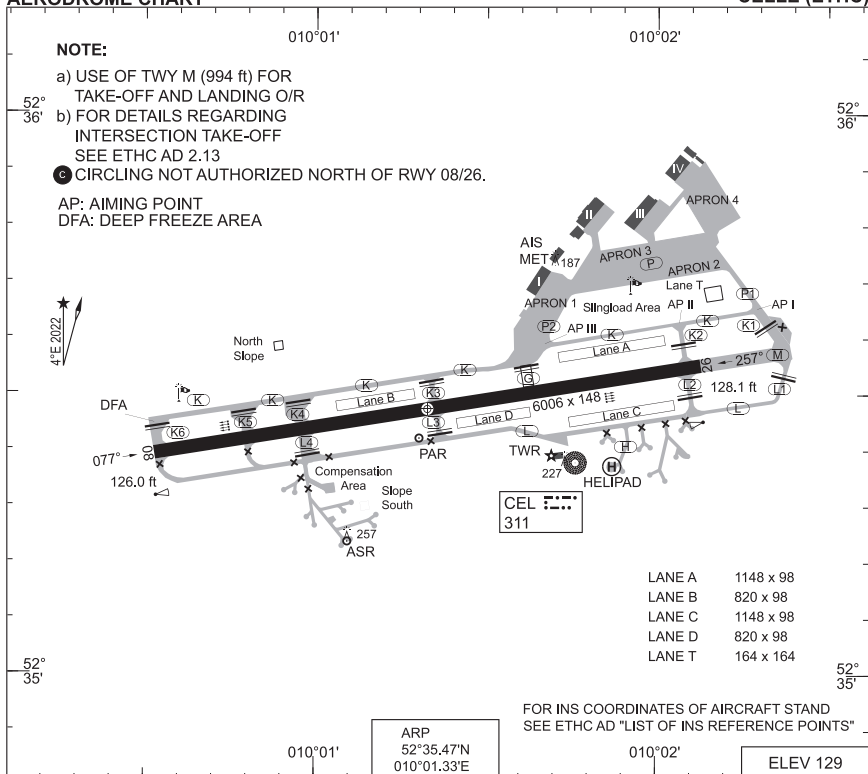
AERODROME CHART

CELLE (ETHC)

NOTE:

- USE OF TWY M (994 ft) FOR TAKE-OFF AND LANDING O/R
- FOR DETAILS REGARDING INTERSECTION TAKE-OFF SEE ETHC AD 2.13
- CIRCLING NOT AUTHORIZED NORTH OF RWY 08/26.

AP: AIMING POINT
DFA: DEEP FREEZE AREA



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN
08	25 F/A/W/T	6006	6006	6006	6006	3.0°	129	52°35.39'N 010°00.53'E
26	25 F/A/W/T	6006	6006	6006	6006	3.0°	129	52°35.55'N 010°02.13'E

CELLE TOWER 315.150 257.800 118.255 122.100
CELLE RADAR 130.505 123.305 267.675 379.575 SSR 4210 - 4217

- MISSED APCH / PDG
- 182 ft NM / 3.0% (REASON ATC)
 - 243 ft NM / 4.0% (REASON ATC)

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	08	3.0°	47			ABCD	MIPS	327 - 1.2 200 (200-1.2)
	PANS-OPS	26	3.0°	49			ABCD	MIPS	366 - 0.8 237 (300-0.8/1.2) ^a
SRA	PANS-OPS	08	3.0°	47			AB CD	MIPS	560 - 1.5 433 (500-1.5) 560 - 2.0 433 (500-2.0)
	PANS-OPS	26	3.0°	49			AB CD	MIPS	540 - 1.2 411 (500-1.2/1.5) ^b 540 - 1.2 411 (500-1.2/1.9)
CIRCLING ^c	PANS-OPS						A B C D	MIPS	570 - 2.1 441 (500-2.1) 630 - 2.4 501 (600-2.4) 860 - 3.4 731 (800-3.4) 860 - 3.6 731 (800-3.6)

AERODROME CHART

CELLE (ETHC)

PANS-OPS
INSTRUMENT DEPARTURE CHART

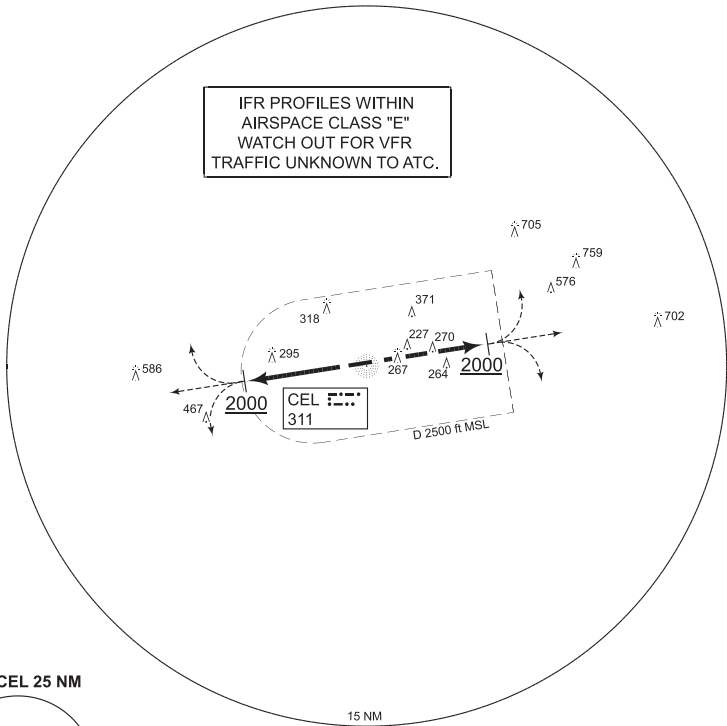
AD ELEV 129

HC 108 - 126
CELLE (ETHC)

CELLE TWR		CELLE RADAR				BREMEN RADAR			
315.150	118.255	379.575	130.505			259.725x	119.490		
RWY	from - to	60	120	180	240	300	360	Reason	
08	DER - 2000 ft	469	938	1407	1876	2345	2814	ATC	
26	DER - 2000 ft	469	938	1407	1876	2345	2814	ATC	



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA CEL 25 NM

2700

15 NM

EMERG SAFE ALT 100 NM 6100

TA 5000

HC 108 (RWY 08)	- Climb on RWY direction to 2000 ft - Continue as cleared by ATC
HC 126 (RWY 26)	- Climb on RWY direction to 2000 ft - Continue as cleared by ATC

HC 108 - 126

52°35.47'N
010°01.33'E

CELLE (ETHC)

CHANGE EDITORIAL (08/02/26)

ACC 16 APR 2026

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 129

RNAV SID AMALI 1C - 1D
CELLE (ETHC)

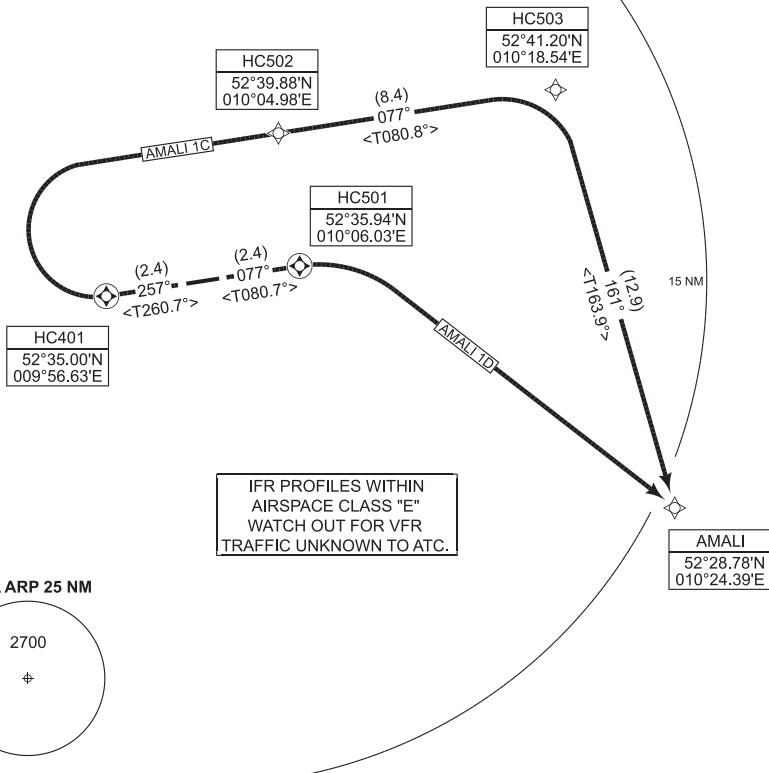
CELLE TOWER
315.150 118.255

CELLE RADAR
379.575 130.505

BREMEN RADAR
259.725x 119.490

NOTE:

- GNSS REQUIRED.
- RNAV-1 REQUIRED.
- AMALI 1C LIMITED TO 205 KIAS MAX UNTIL HC502.



EMERG SAFE ALT 100 NM 6100

TA 5000

AMALI 1C
(RWY 26)

- Climb on track 257° to HC401
- Turn right direct to HC502
- To HC503
- To AMALI
- HC401 [M257;K205-] - HC502 [K205-;R] - HC503 - AMALI

AMALI 1D
(RWY 08)

- Climb on track 077° to HC501
- Turn right direct to AMALI
- HC501 [M077;R] - AMALI

RNAV SID AMALI 1C - 1D

52°35.47'N
010°01.33'E

CELLE (ETHC)

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 129

**RNAV SID NIE 1C - 1D
CELLE (ETHC)**

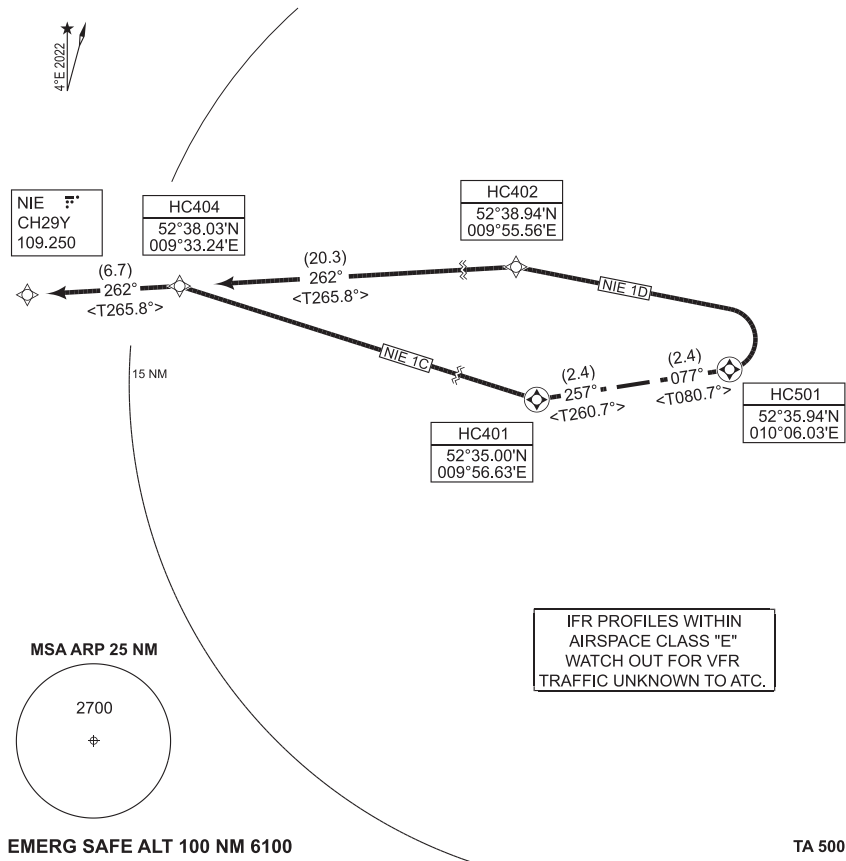
CELLE TOWER
315.150 118.255

CELLE RADAR
379.575 130.505

BREMEN RADAR
259.725x 119.490

NOTE:

- a) GNSS REQUIRED.
- b) RNAV-1 REQUIRED.
- c) NIE 1D LIMITED TO 205 KIAS MAX UNTIL HC402.



CHANGE: EDITORIAL (186/25)

NIE 1C (RWY 26)	- Climb on track 257° to <u>HC401</u> - Turn right direct to HC404 - To NIE <u>HC401</u> [M257] - HC404 [R] - NIE
NIE 1D (RWY 08)	- Climb on track 077° to <u>HC501</u> - Turn left direct to HC402 - To NIE <u>HC501</u> [M077;K205-] - HC402 [K205-;L] - NIE

RNAV SID NIE 1C - 1D

52°35.47'N
010°01.33'E

CELLE (ETHC)

ACC 19 FEB 2026

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 129

RNAV SID OBATU 1C - 1D
CELLE (ETHC)

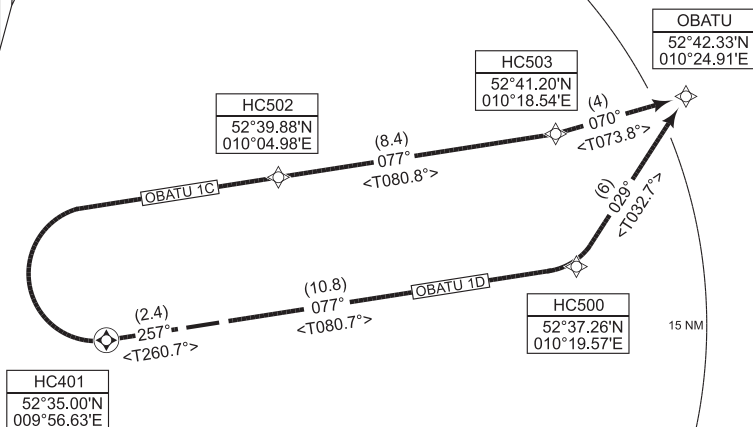
CELLE TOWER
315.150 118.255

CELLE RADAR
379.575 130.505

BREMEN RADAR
259.725x 119.490

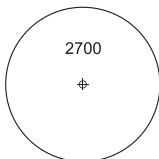
NOTE:

- GNSS REQUIRED.
- RNAV-1 REQUIRED.
- OBATU 1C LIMITED TO 205 KIAS MAX UNTIL HC502.



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

MSA ARP 25 NM



EMERG SAFE ALT 100 NM 6100

TA 5000

OBATU 1C
(RWY 26)

- Climb on track 257° to HC401
- Turn right direct to HC502
- To HC503
- To OBATU
- HC401 [M257;K205-] - HC502 [K205-;R] - HC503 - OBATU

OBATU 1D
(RWY 08)

- Climb on track 077° to HC500
- To OBATU
- HC500 [M077] - OBATU

RNAV SID OBATU 1C - 1D

52°35.47'N
010°01.33'E

CELLE (ETHC)

RNP RWY 08
CELLE (ETHC)

RNP RWY 08 FROM NIE:

	CODING	DISPLAY
NIE (IAF)	52 37 33.21 N 009 22 19.17 E	52 37.553 N 009 22.319 E
HC404 (TF)	52 38 01.67 N 009 33 14.40 E	52 38.028 N 009 33.240 E
HC400 (IF)	52 33 43.13 N 009 43 54.69 E	52 33.719 N 009 43.911 E
DEDOP (FAF)	52 34 27.39 N 009 51 11.16 E	52 34.457 N 009 51.186 E
RW08 (MAPT)	52 35 23.55 N 010 00 31.69 E	52 35.392 N 010 00.528 E
HC500 (MATF)	52 37 15.59 N 010 19 34.06 E	52 37.260 N 010 19.568 E
OBATU (MAHF)	52 42 19.55 N 010 24 54.68 E	52 42.326 N 010 24.911 E

RNP RWY 08 FROM OBATU:

	CODING	DISPLAY
OBATU (IAF)	52 42 19.55 N 010 24 54.68 E	52 42.326 N 010 24.911 E
HC503 (TF)	52 41 12.28 N 010 18 32.19 E	52 41.205 N 010 18.536 E
HC402 (TF)	52 38 56.67 N 009 55 33.71 E	52 38.945 N 009 55.562 E
HC403 (TF)	52 37 39.50 N 009 42 49.70 E	52 37.658 N 009 42.828 E
HC400 (IF)	52 33 43.13 N 009 43 54.69 E	52 33.719 N 009 43.911 E
DEDOP (FAF)	52 34 27.39 N 009 51 11.16 E	52 34.457 N 009 51.186 E
RW08 (MAPT)	52 35 23.55 N 010 00 31.69 E	52 35.392 N 010 00.528 E
HC500 (MATF)	52 37 15.59 N 010 19 34.06 E	52 37.260 N 010 19.568 E
OBATU (MAHF)	52 42 19.55 N 010 24 54.68 E	52 42.326 N 010 24.911 E

RNP RWY 08 FROM AMALI:

	CODING	DISPLAY
AMALI (IAF)	52 28 47.04 N 010 24 23.37 E	52 28.784 N 010 24.390 E
HC500 (TF)	52 37 15.59 N 010 19 34.06 E	52 37.260 N 010 19.568 E
HC402 (TF)	52 38 56.67 N 009 55 33.71 E	52 38.945 N 009 55.562 E
HC403 (TF)	52 37 39.50 N 009 42 49.70 E	52 37.658 N 009 42.828 E
HC400 (IF)	52 33 43.13 N 009 43 54.69 E	52 33.719 N 009 43.911 E
DEDOP (FAF)	52 34 27.39 N 009 51 11.16 E	52 34.457 N 009 51.186 E
RW08 (MAPT)	52 35 23.55 N 010 00 31.69 E	52 35.392 N 010 00.528 E
HC500 (MATF)	52 37 15.59 N 010 19 34.06 E	52 37.260 N 010 19.568 E
OBATU (MAHF)	52 42 19.55 N 010 24 54.68 E	52 42.326 N 010 24.911 E

Threshold Coordinates

RWY 08	52 35 23.55 N 010 00 31.69 E	52 35.392 N 010 00.528 E
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PANS-OPS INSTRUMENT APPROACH CHART

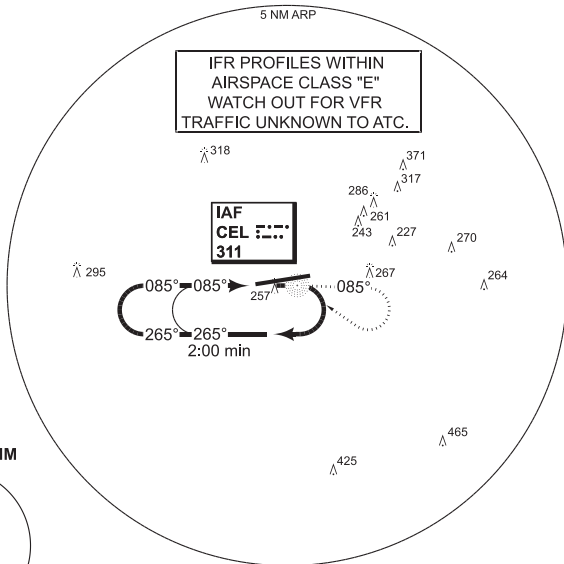
AD ELEV 129

COPTER NDB RWY 08
CELLE (ETHC)

CELLE TOWER 315.150 118.255		CELLE RADAR 379.575 130.505		BREMEN RADAR 259.725x 119.490	
NDB CEL 311	APP COURSE 085°	MDA 600	TDZE 129	ALS-Length —	LDA 6006

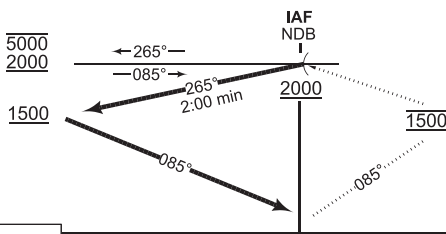
CAUTION:
INCREASED DESCENT RATE ON FINAL.

IAF
52°35.38'N
010°01.77'E



EMERG SAFE ALT 100 NM 6100

TA 5000



MISSED APPROACH
Climb on heading 085°
altitude 1500 ft. Turn right
inbound CEL climbing
altitude 2000 ft. Re-enter
holding at altitude 2000 ft
or as cleared by ATC.

TCH 47

NO LIGHTS

TDZE 129

CATEGORY

COPTER

H-RWY 08

600 - 0.8 471 (500-0.8)

COPTER NDB RWY 08

52°35.47'N
010°01.33'E

CELLE (ETHC)

PANS-OPS INSTRUMENT APPROACH CHART

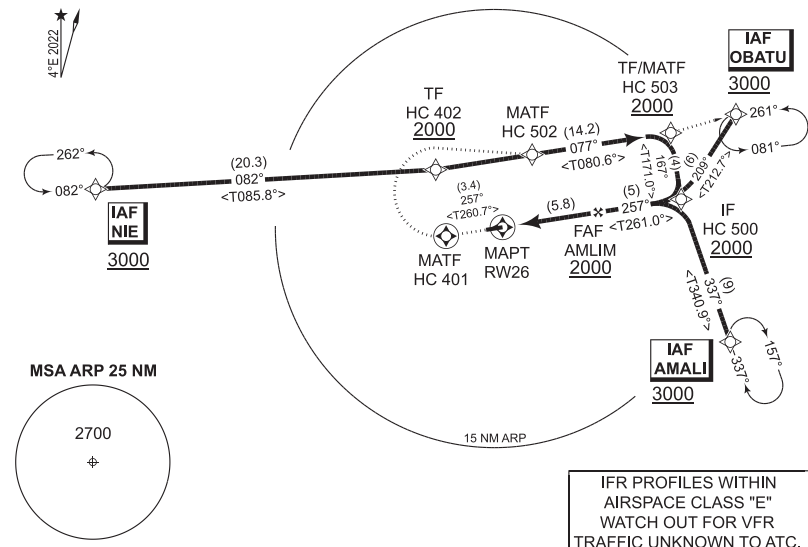
AD ELEV 129

RNP RWY 26
CELLE (ETHC)

BREMEN RADAR 259.725x 119.490		CELLE RADAR 379.575 130.505		CELLE TOWER 315.150 118.255		
APP COURSE 257°	FAF ALT 2000	DESCENT GR 3.0° / 5.2%	MDA / DA See CAT	THR ELEV 129	ALS-LENGTH 998 M	LDA 6006

NOTE:

- GNSS REQUIRED.
- PROCEDURE LIMITED TO 200 KIAS MAX.
- BARO-VNAV NOT AUTHORIZED BELOW -30°C.
- CIRCLING NOT AUTHORIZED NORTH OF RWY 08/26.

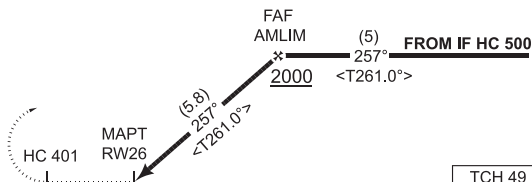


EMERG SAFE ALT 100 NM 6100

MISSED APPROACH

Climb to HC401 on course 257°. Turn right direct to HC502, to HC503, to OBATU, climb to 3000 ft. HC401 [M257;R]→HC502; HC503, OBATU [A3000]

TA 5000



THR ELEV 129

TCH 49

CAT I

MPS	CATEGORY	A	B	C	D
	LNAV	520 - 1.1 391 (400-1.1/1.5)		520 - 1.1 391 (400-1.1/1.8)	
	LNAV/VNAV	397 - 600 0.8 268 (300-0.8/1.3)	409 - 600 0.8 280 (300-0.8/1.3)	418 - 650 0.8 289 (300-0.8/1.4)	428 - 650 0.8 299 (300-0.8/1.4)
	CIRCLING	570 - 2.1 441 (500-2.1)	630 - 2.4 501 (600-2.4)	860 - 3.4 731 (800-3.4)	860 - 3.6 731 (800-3.6)

RNP RWY 26

52°35.47'N
010°01.33'E

CELLE (ETHC)

RNP RWY 26 FROM NIE:

	CODING	DISPLAY
NIE (IAF)	52 37 33.21 N 009 22 19.17 E	52 37.553 N 009 22.319 E
HC402 (TF)	52 38 56.67 N 009 55 33.71 E	52 38.945 N 009 55.562 E
HC503 (TF)	52 41 12.28 N 010 18 32.19 E	52 41.205 N 010 18.536 E
HC500 (IF)	52 37 15.59 N 010 19 34.06 E	52 37.260 N 010 19.568 E
AMLIM (FAF)	52 36 28.32 N 010 11 28.06 E	52 36.472 N 010 11.468 E
RW26 (MAPT)	52 35 33.09 N 010 02 07.67 E	52 35.551 N 010 02.128 E
HC401 (MATF)	52 35 00.19 N 009 56 37.59 E	52 35.003 N 009 56.627 E
HC502 (MATF)	52 39 52.83 N 010 04 58.81 E	52 39.880 N 010 04.980 E
HC503 (MATF)	52 41 12.28 N 010 18 32.19 E	52 41.205 N 010 18.536 E
OBATU (MAHF)	52 42 19.55 N 010 24 54.68 E	52 42.326 N 010 24.911 E

RNP RWY 26 FROM OBATU:

	CODING	DISPLAY
OBATU (IAF)	52 42 19.55 N 010 24 54.68 E	52 42.326 N 010 24.911 E
HC500 (IF)	52 37 15.59 N 010 19 34.06 E	52 37.260 N 010 19.568 E
AMLIM (FAF)	52 36 28.32 N 010 11 28.06 E	52 36.472 N 010 11.468 E
RW26 (MAPT)	52 35 33.09 N 010 02 07.67 E	52 35.551 N 010 02.128 E
HC401 (MATF)	52 35 00.19 N 009 56 37.59 E	52 35.003 N 009 56.627 E
HC502 (MATF)	52 39 52.83 N 010 04 58.81 E	52 39.880 N 010 04.980 E
HC503 (MATF)	52 41 12.28 N 010 18 32.19 E	52 41.205 N 010 18.536 E
OBATU (MAHF)	52 42 19.55 N 010 24 54.68 E	52 42.326 N 010 24.911 E

RNP RWY 26 FROM AMALI:

	CODING	DISPLAY
AMALI (IAF)	52 28 47.04 N 010 24 23.37 E	52 28.784 N 010 24.390 E
HC500 (IF)	52 37 15.59 N 010 19 34.06 E	52 37.260 N 010 19.568 E
AMLIM (FAF)	52 36 28.32 N 010 11 28.06 E	52 36.472 N 010 11.468 E
RW26 (MAPT)	52 35 33.09 N 010 02 07.67 E	52 35.551 N 010 02.128 E
HC401 (MATF)	52 35 00.19 N 009 56 37.59 E	52 35.003 N 009 56.627 E
HC502 (MATF)	52 39 52.83 N 010 04 58.81 E	52 39.880 N 010 04.980 E
HC503 (MATF)	52 41 12.28 N 010 18 32.19 E	52 41.205 N 010 18.536 E
OBATU (MAHF)	52 42 19.55 N 010 24 54.68 E	52 42.326 N 010 24.911 E

Threshold Coordinates

RWY 26	52 35 33.09 N 010 02 07.67 E	52 35.551 N 010 02.128 E
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PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 129

NDB RWY 26
CELLE (ETHC)

CELLE TWR 315.150 118.255		CELLE RADAR 379.575 130.505		BREMEN RADAR 259.725x 119.490	
NDB CEL 311	APP COURSE 249°	MDA 570	TDZE 129	ALS-Length 998 M	LDA 6006

CAUTION:

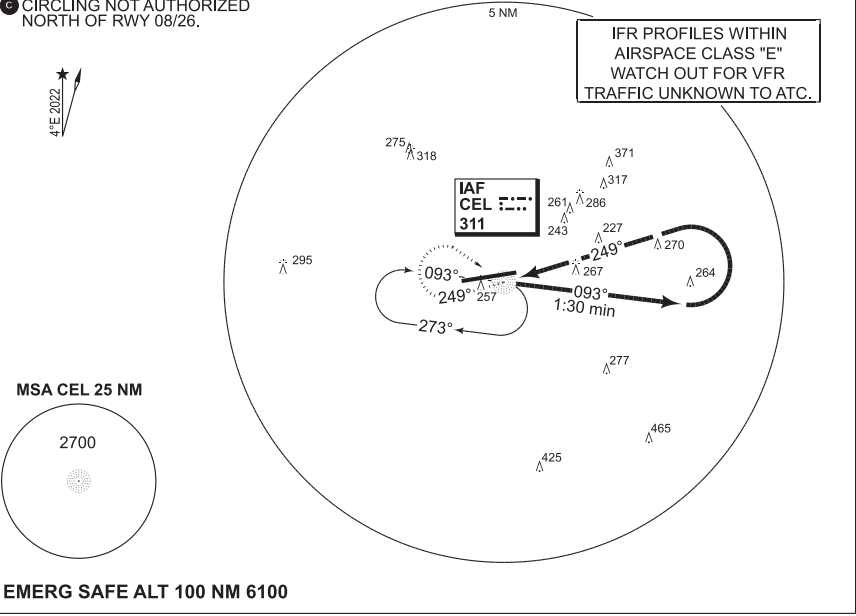
a) INCREASED DESCENT RATE ON FINAL.

NOTE:

b) 125 KIAS MAX.

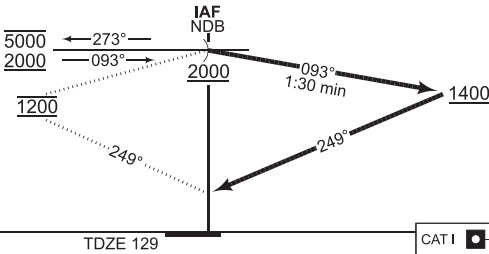
c) CIRCLING NOT AUTHORIZED
NORTH OF RWY 08/26.

IAF
52°35.38'N
010°01.77'E



MISSED APPROACH

Climb on heading 249°
altitude 1200 ft. Turn right
inbound CEL climbing
altitude 2000 ft. Re-enter
holding at altitude 2000 ft
or as cleared by ATC.



CATEGORY	A	B
NDB RWY 26	570 - 1.4 441 (500-1.4/1.5)	
c) CIRCLING	570 - 2.1 441 (500-2.1)	630 - 2.4 501 (600-2.4)

NDB RWY 26

52°35.47'N
010°01.33'E

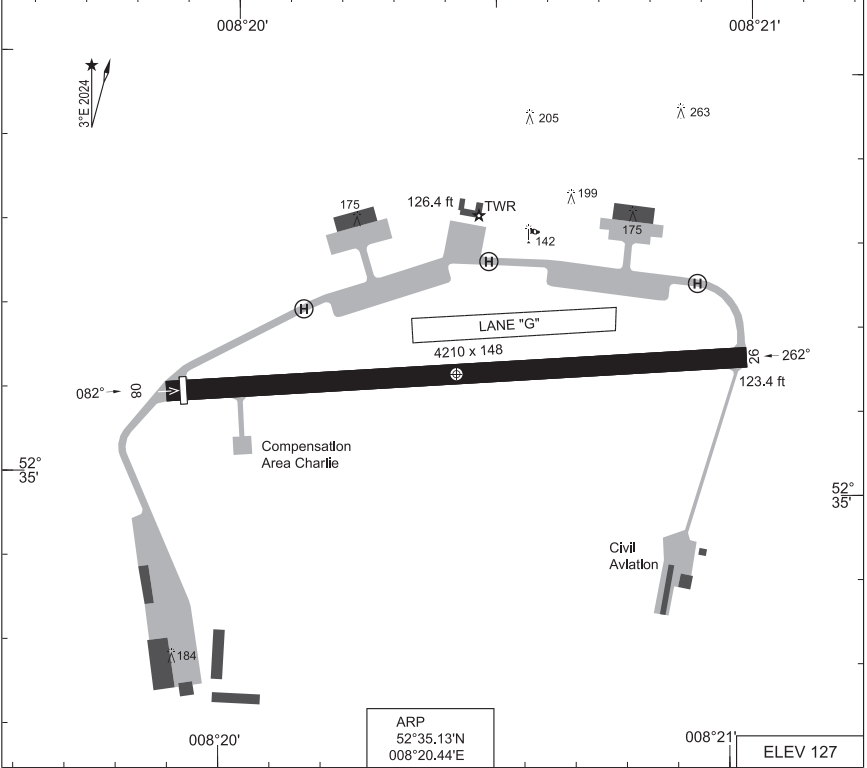
CELLE (ETHC)

CHANGE: EDITORIAL (179/25)

ACC 19 FEB 2026

AERODROME CHART

DIEPHOLZ (ETND)



RWY	LCN	TORA	ASDA	TODA	LDA		TDZE	THR PSN
08	120	4210	4210	4210	4090		126	52°35.10'N 008°19.91'E
26	120	4210	4210	4210	4210		125	52°35.16'N 008°21.01'E

DIEPHOLZ TOWER 379.300 135.130

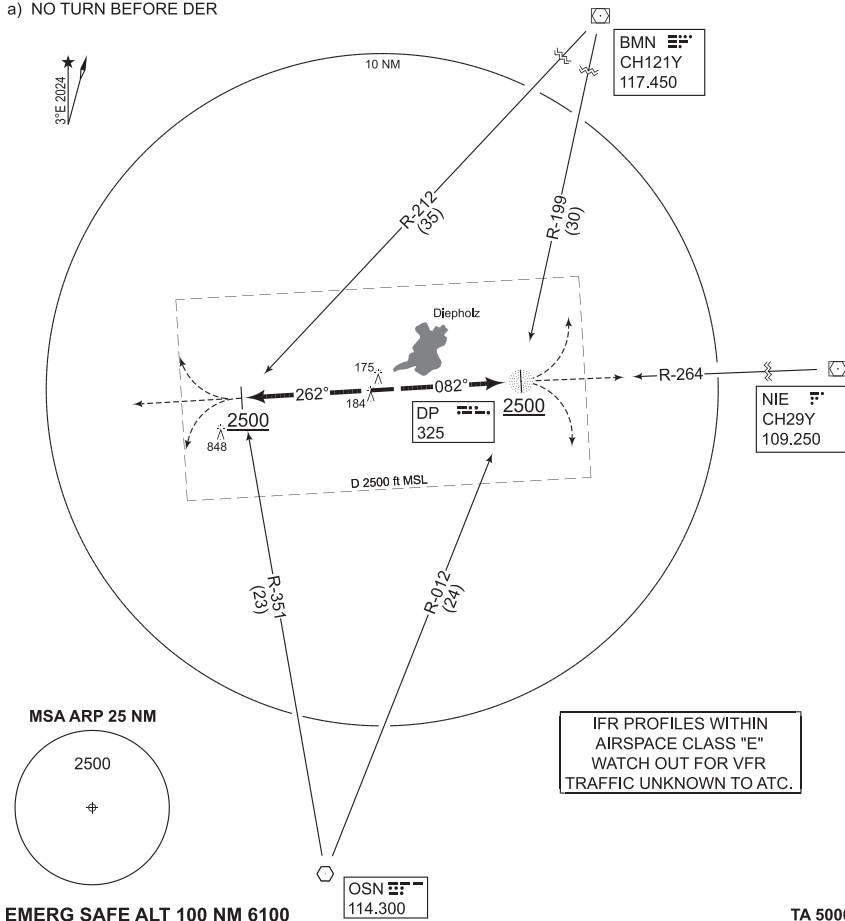
CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

ND 108 - 126
DIEPHOLZ (ETND)

DIEPHOLZ TWR		BREMEN RADAR						
379.300	135.130	389.325	125.025					
		RWY	from-to	60	120	180	240	Reason
		08	DER - 2500 ft	590	1180	1770	2360	ATC
		26						
NOTE:								

a) NO TURN BEFORE DER



ND 108 (RWY 08)	- Climb straight ahead to 2500 ft - Continue as cleared by ATC
ND 126 (RWY 26)	- Climb straight ahead to 2500 ft - Continue as cleared by ATC

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 127

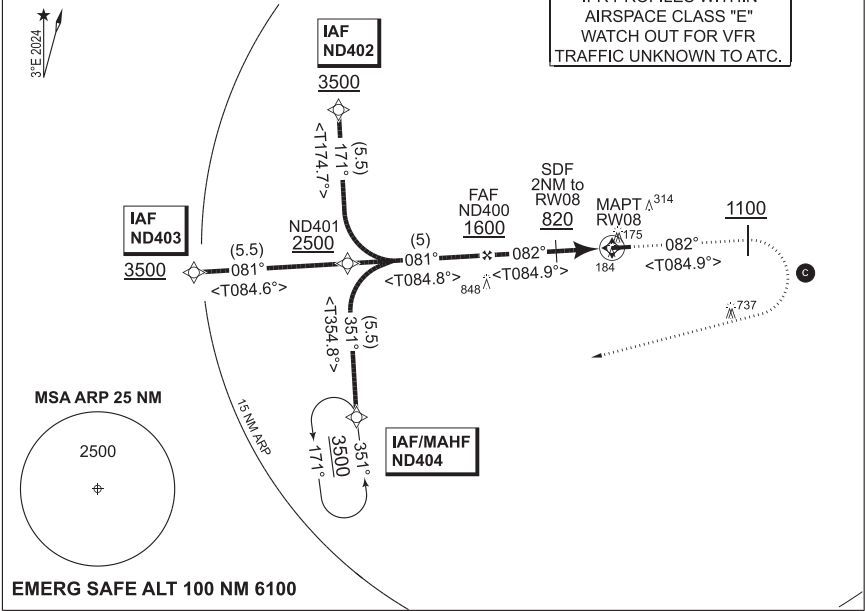
RNP RWY 08
DIEPHOLZ (ETND)

BREMEN RADAR 389.325 125.025			DIEPHOLZ TOWER 379.300 135.130		
APP COURSE 082°	FAF ALT 1600	GS 3° / 5.2%	MDA/DA See CAT	THR ELEV 126	LDA 4090

NOTE:

- a) GNSS REQUIRED.
- b) BARO/VNAV NOT AUTHORIZED BELOW -30°C.
- c) MISSED APPROACH TURN LIMITED TO 160 KIAS MAX.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



TA 5000

MISSED APPROACH
Climb on course 082° to 1100 ft or above, turn
right direct to ND404, climb to 3500 ft or above.
M082[A1100+], → ND404 [A3500+; K160-]

Dist THR / RW08	4.4	4	3	2	1
Altitude	1600	1450	1130	820	490

4.5	THR ELEV 126	TCH 50
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CATEGORY	A	B	C
LNAV	490 - 1.5 364 (400-1.5)		490 - 1.7 364 (400-1.7)
LNAV / VNAV	376 - 1.3 250 (300-1.3)	388 - 1.3 262 (300-1.3)	396 - 1.3 270 (300-1.3)
CIRCLING	550 - 2.0 423 (500-2.0)	620 - 2.3 493 (500-2.3)	1340 - 5.0 1213 (1300-5.0)

RNP RWY 08

52°35.13'N
008°20.44'E

DIEPHOLZ (ETND)

CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

RNP RWY 08 from ND402

	CODING	DISPLAY
ND402 (IAF)	52 39 43.40 N 008 03 37.41 E	52 39.723 N 008 03.623 E
ND401 (TF)	52 34 15.26 N 008 04 26.91 E	52 34.254 N 008 04.449 E
ND400 (FAF)	52 34 42.34 N 008 12 36.62 E	52 34.706 N 008 12.610 E
RW08 (MAPT)	52 35 06.08 N 008 19 54.61 E	52 35.101 N 008 19.910 E
ND404 (MAHF)	52 28 47.10 N 008 05 16.21 E	52 28.785 N 008 05.270 E

RNP RWY 08 from ND403

	CODING	DISPLAY
ND403 (IAF)	52 33 44.81 N 007 55 28.44 E	52 33.747 N 007 55.474 E
ND401 (TF)	52 34 15.26 N 008 04 26.91 E	52 34.254 N 008 04.449 E
ND400 (FAF)	52 34 42.34 N 008 12 36.62 E	52 34.706 N 008 12.610 E
RW08 (MAPT)	52 35 06.08 N 008 19 54.61 E	52 35.101 N 008 19.910 E
ND404 (MAHF)	52 28 47.10 N 008 05 16.21 E	52 28.785 N 008 05.270 E

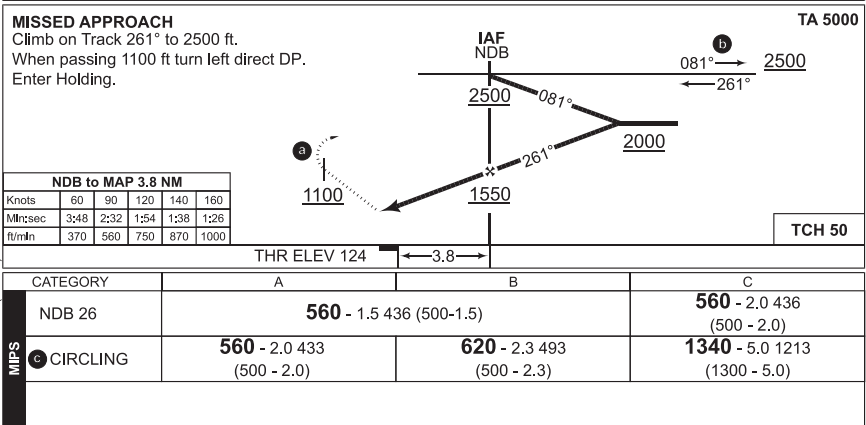
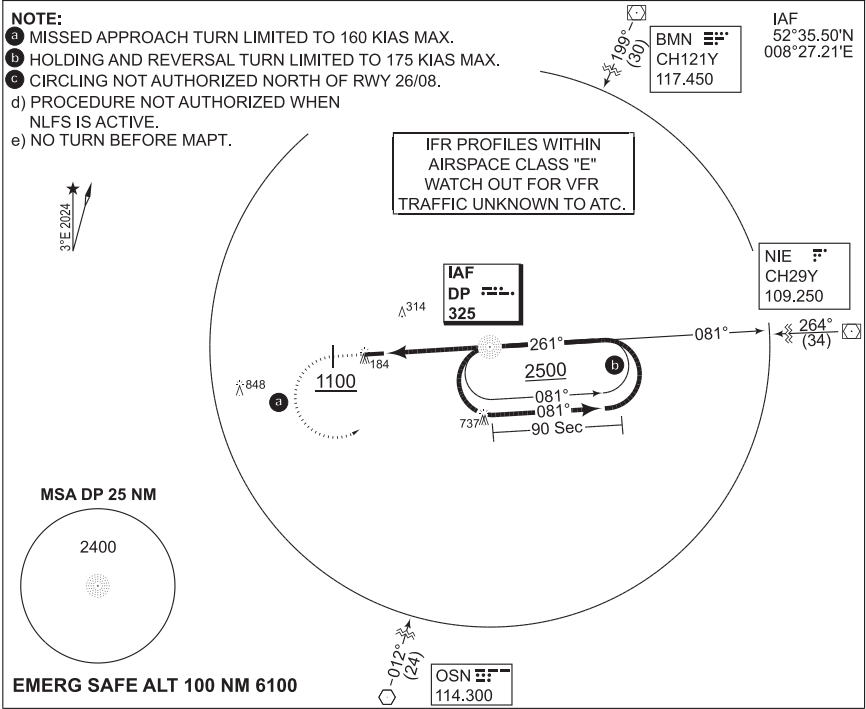
RNP RWY 08 from ND404

	CODING	DISPLAY
ND404 (IAF)	52 28 47.10 N 008 05 16.21 E	52 28.785 N 008 05.270 E
ND401 (TF)	52 34 15.26 N 008 04 26.91 E	52 34.254 N 008 04.449 E
ND400 (FAF)	52 34 42.34 N 008 12 36.62 E	52 34.706 N 008 12.610 E
RW08 (MAPT)	52 35 06.08 N 008 19 54.61 E	52 35.101 N 008 19.910 E
ND404 (MAHF)	52 28 47.10 N 008 05 16.21 E	52 28.785 N 008 05.270 E

Threshold Coordinates

RWY 08	52 35 06.08 N 008 19 54.61 E	52 35.101 N 008 19.910 E
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BREMEN RADAR 389.325 125.025		DIEPHOLZ TWR 379.300 135.130			
NDB DP 325	APP COURSE 261°	FAF ALT 1550	Descent GR 5.97%/3.4°	MDA See CAT	THR ELEV 124
				LDA 4210	

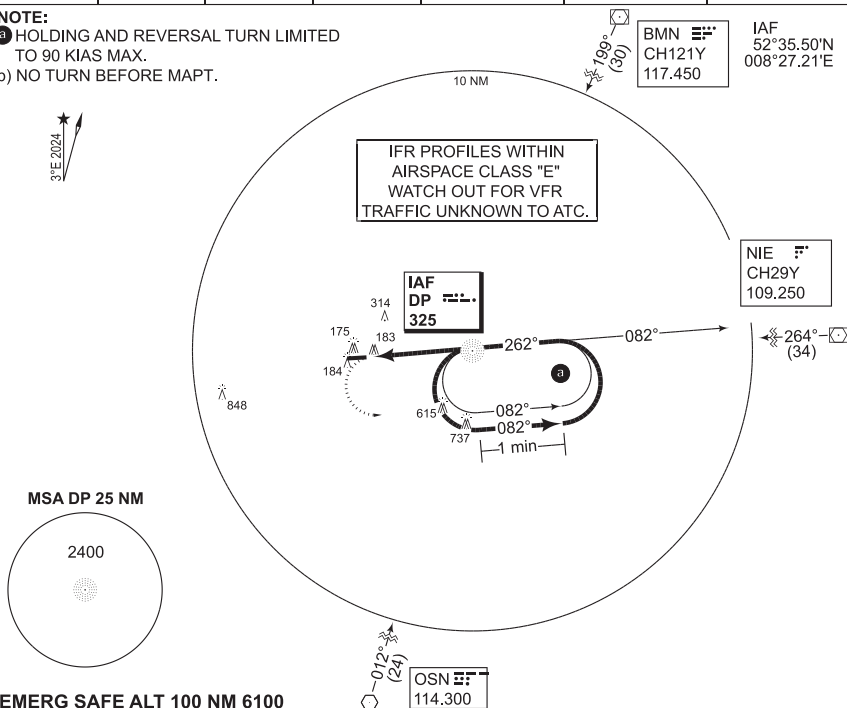


**COPTER NDB RWY 26
DIEPHOLZ (ETND)**

BREMEN RADAR		DIEPHOLZ TWR				
389.325	125.025	379.300	135.130			
NDB	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	LDA
DP 325	262°	1550	5.97%/3.4°	560	124	4210

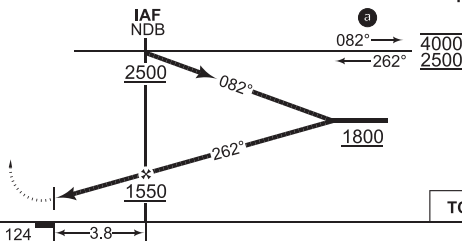
a HOLDING AND REVERSAL TURN LIMITED TO 90 KIAS MAX.

b) NO TURN BEFORE MAPT.



Turn left direct to DP, climb to 2500 ft.

TA 5000

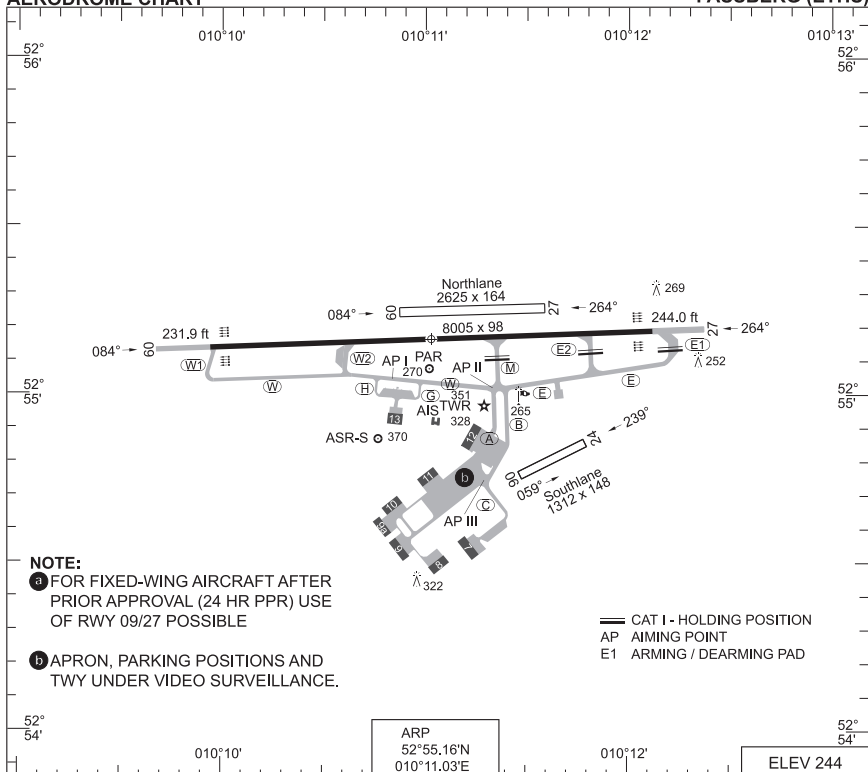


NDB to MAP 3.8 NM			
Knots	60	90	120
Min:sec	3:48	2:32	1:54
ft/min	370	560	750

CATEGORY	COPTER
Copter NDB 26	560 - 0.8 436 (500-0.8)

AERODROME CHART

FASSBERG (ETHS)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN
09	30 R/B/W/T	8005	8005	8005	8005	3.0°	240	52°55.14'N 010°09.94'E
a 27	30 R/B/W/T	8005	8005	8005	8005	3.0°	244	52°55.19'N 010°12.12'E

FASSBERG TOWER 118.525 292.425
FASSBERG RADAR 389.675 398.200 119.355 336.475 SSR 4220 - 4227

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	TERPS	27	3.0°	38		750	ABCDE	TERPS	445 - 0.8 200 (200-0.8/1.2)
	TERPS	265	3.0°			750	COPTER	TERPS	345 - 0.4 100 (100-0.4/0.8)
SRA	TERPS	27					AB CDE	TERPS	670 - 1.3 426 (500-1.3/1.5) 670 - 1.3 426 (500-1.3/2.0)
	TERPS	265					COPTER	TERPS	670 - 1.3 426 (500-1.3/1.5)

CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

AERODROME CHART

FASSBERG (ETHS)

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 244

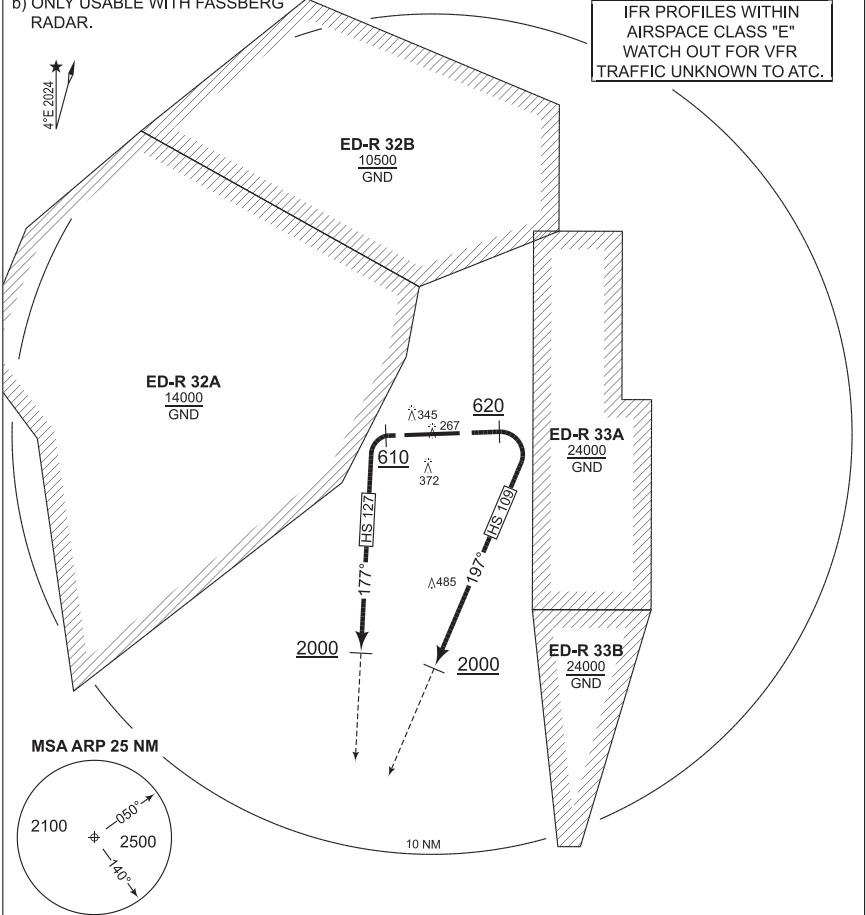
HS 109 - 127
FASSBERG (ETHS)

FASSBERG TWR		FASSBERG RADAR			BREMEN RADAR			
292.425 118.525		389.675	398.200	119.355	259.725	119.490		
RWY	Knots	60	90	120	to			
09	V/V (fpm)	425	638	850	2000 ft			
27	V/V (fpm)	400	600	800	2000 ft			

NOTE:

- a) PROCEDURES FOR HELICOPTER ONLY.
b) ONLY USABLE WITH FASSBERG RADAR.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 6100

TA 5000

HS 127 (RWY 27)	- Climb on track 265° - When passing 610 ft turn left on track 177° - When reaching 2000 ft continue as cleared by ATC
HS 109 (RWY 09)	- Climb on track 085° - When passing 620 ft turn right on track 197° - When reaching 2000 ft continue as cleared by ATC

HS 109 - 127

52°55.16'N
010°11.03'E

FASSBERG (ETHS)

CHANGE EDITORIAL (180/25)

ACC 19 FEB 2026

FRITZLAR (ETHF)



a 304 ft/NM / 5.0% (REASON ATC)

ACC 19 FEB 2026

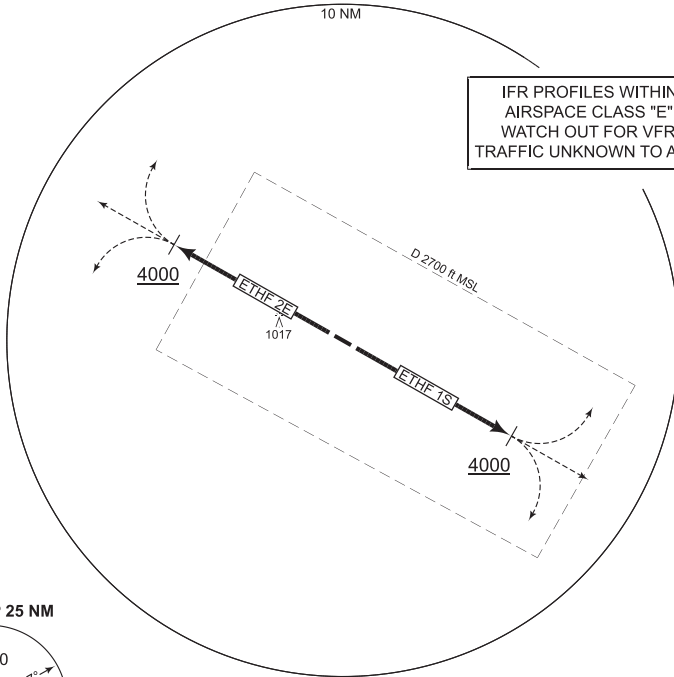
FRITZLAR (ETHF)

PANS-OPS
INSTRUMENT DEPARTURE CHART

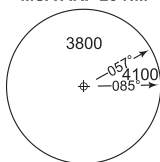
AD ELEV 565

ETHF 1S - 2E
FRITZLAR (ETHF)

FRITZLAR TOWER		FRITZLAR RADAR				LANGEN RADAR			
247.950	122.100	253.500	123.300	120.865		296.950	127.725		
NOTE:		RWY	from-to	60	120	180	240	300	Reason
a) NO TURN BEFORE DER		11	DER - 4000 ft	365	730	1095	1460	1825	ATC
b) DO NOT USE FOR FLIGHTPLAN PURPOSE		29	DER - 4000 ft	365	730	1095	1460	1825	ATC



MSA ARP 25 NM



EMERG SAFE ALT 100 NM 6100

TA 5000

ETHF 1S
(RWY 11)

- Climb straight ahead until passing 4000 ft
- Continue as cleared by ATC

ETHF 2E
(RWY 29)

- Climb straight ahead until passing 4000 ft
- Continue as cleared by ATC

ETHF 1S - 2E

51°06.87'N
009°17.15'E

FRITZLAR (ETHF)

CHANGE: REVISED CHART (147/26)

ACC 06 AUG 2026

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 565

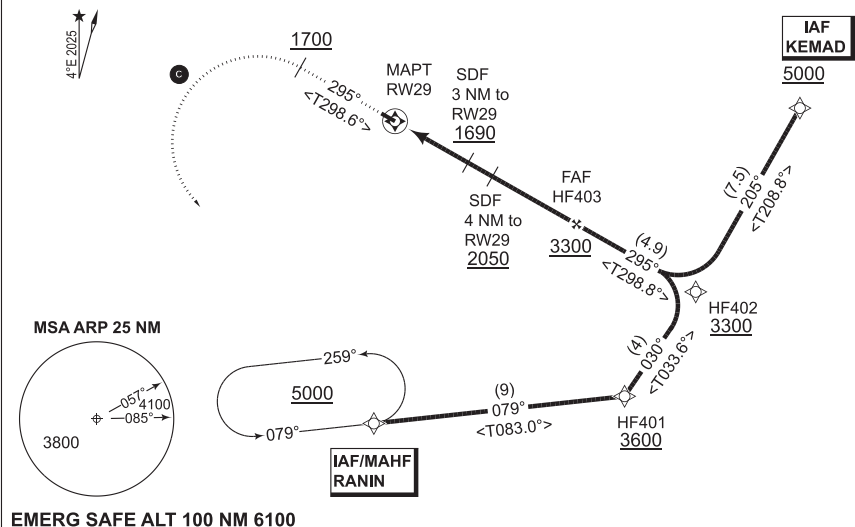
RNP RWY 29
FRITZLAR (ETHF)

LANGEN RADAR 296.950 127.725		FRITZLAR RADAR 253.500 123.300 120.865			FRITZLAR TOWER 247.950 122.100		
APP COURSE 295°	FAF ALT 3300	DESCENT GR 3.4° / 5.9%	DA/MDA See CAT		THR ELEV 558	ALS-LENGTH 600 M	LDA 3421

NOTE:

- a) GNSS REQUIRED.
- b) BARO/VNAV NOT AUTHORIZED BELOW -30°C.
- c) MISSED APPROACH PDG IS 4% UNTIL PASSING 1700 FT.
- d) CIRCLING CAT B LIMITED TO 120 KIAS MAX.
- e) CIRCLING CAT C LIMITED TO 140 KIAS MAX.
- f) CIRCLING NOT AUTHORIZED NORTH OF RWY.

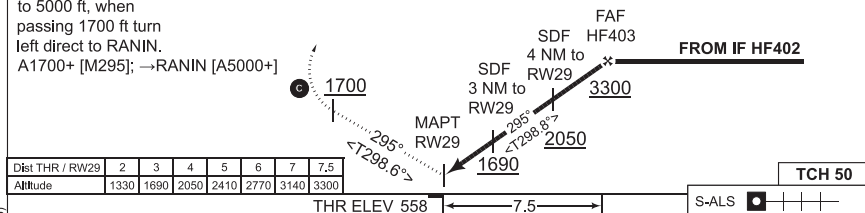
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MISSED APPROACH

Climb on course 295°
to 5000 ft, when
passing 1700 ft turn
left direct to RANIN.
A1700+ [M295]; →RANIN [A5000+]

TA 5000



CATEGORY	A	B	C
LNAV	1000 - 1.4 442 (500-1.4/1.5)		1060 - 1.6 502 (600-1.6/2.4)
LNAV / VNAV	897 - 0.8/550 339 (300-0.8/1.3)	909 - 0.8/550 351 (300-0.8/1.3)	920 - 0.8/550 362 (300-0.8/1.3)
f CIRCLING	1390 - 3.8 825 (900-3.8)	d 1460 - 4.3 895 (1000-4.3)	e 1740 - 5.0 1175 (1200-5.0)

RNP RWY 29

51°06.87'N
009°17.15'E

FRITZLAR (ETHF)

RNP RWY 29 FROM RANIN:

	CODING	DISPLAY
RANIN (IAF)	50 55 56.50 N 009 16 37.64 E	50 55.942 N 009 16.627 E
HF401 (TF)	50 57 02.83 N 009 30 46.38 E	50 57.047 N 009 30.773 E
HF402 (IF)	51 00 48.38 N 009 34 43.25 E	51 00.806 N 009 34.721 E
HF403 (FAF)	51 03 09.79 N 009 27 55.29 E	51 03.163 N 009 27.922 E
RW29 (MAPT)	51 06 44.40 N 009 17 32.64 E	51 06.740 N 009 17.544 E
RANIN (MAHF)	50 55 56.50 N 009 16 37.64 E	50 55.942 N 009 16.627 E

RNP RWY 29 FROM KEMAD:

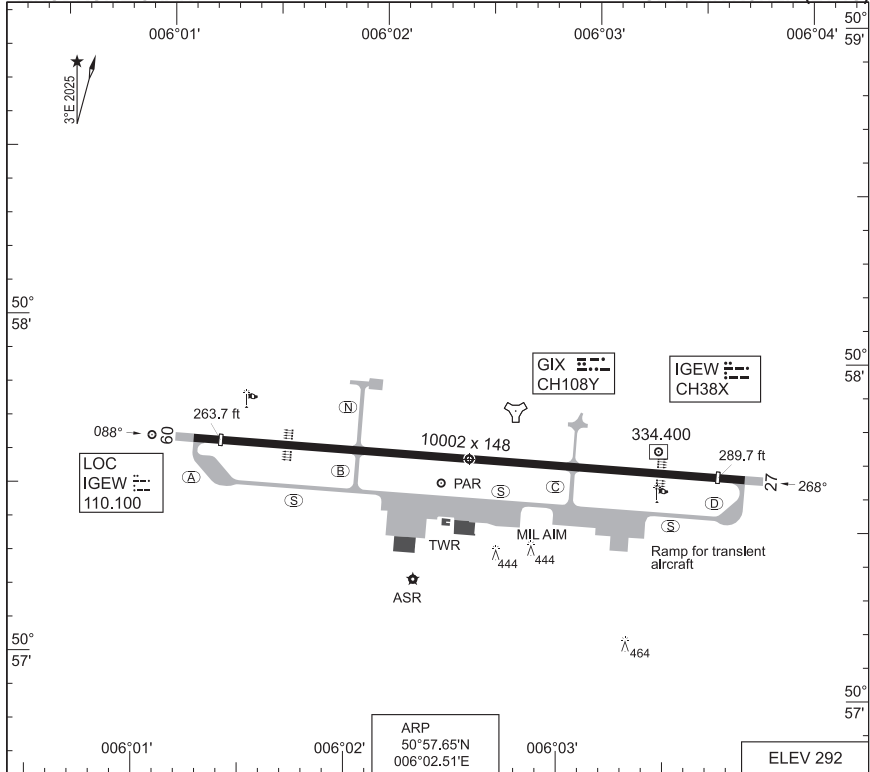
	CODING	DISPLAY
KEMAD (IAF)	51 07 24.53 N 009 40 30.06 E	51 07.409 N 009 40.501 E
HF402 (IF)	51 00 48.38 N 009 34 43.25 E	51 00.806 N 009 34.721 E
HF403 (FAF)	51 03 09.79 N 009 27 55.29 E	51 03.163 N 009 27.922 E
RW29 (MAPT)	51 06 44.40 N 009 17 32.64 E	51 06.740 N 009 17.544 E
RANIN (MAHF)	50 55 56.50 N 009 16 37.64 E	50 55.942 N 009 16.627 E

Threshold Coordinates

RWY 29	51 06 44.40 N 009 17 32.64 E	51 06.740 N 009 17.544 E
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AERODROME CHART

GEILENKIRCHEN (ETNG)



RWY	PCR	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
09	2770 F/A/X/T	10002	10002	10002	9515	3.0°		264	50°57.66'N 006°01.33'E
27	2770 F/A/X/T	10002	10002	10002	9516	3.0°		290	50°57.64'N 006°03.68'E

FRISBEE TOWER	357.375	120.055	257.800	118.090	
FRISBEE RADAR	267.400	344.500	123.730	SSR 6170 - 6177	
ATIS	375.550				

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS OPS	09	3.0°	50		1300	A B C D E	PANS OPS	464-0.8/750 200 (200-0.8/1.2)
	PANS OPS	27	3.0°	53		1180	A B C D E	PANS OPS	490-0.8/550 200 (200-0.8/1.2)

AERODROME CHART

GEILENKIRCHEN (ETNG)

CHANGE: PCR (1102/26)

ACC 11 JUN 2026

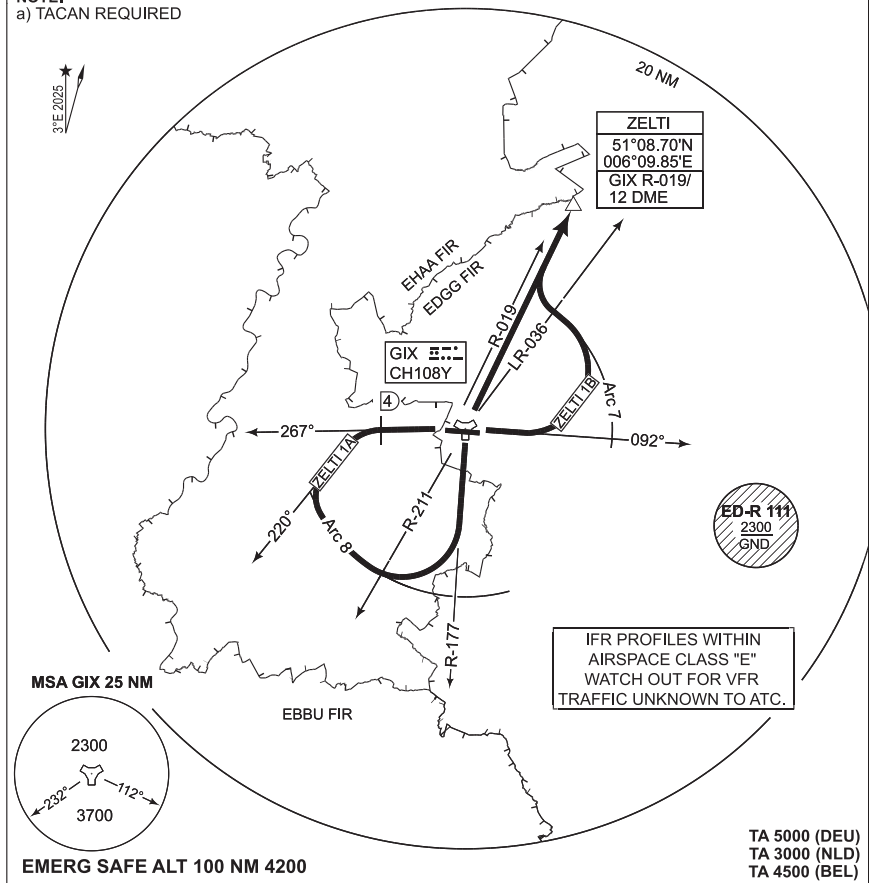
PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 292

ZELTI 1A - 1B
GEILENKIRCHEN (ETNG)

FRISBEE TOWER 357.375 120.055 118.090	FRISBEE RADAR 267.400 123.730	LANGEN RADAR 359.875 119.110
BEEK RADAR 340.850 123.980		

NOTE:
a) TACAN REQUIRED



CHANGE: REVISED CHART (149/26)

ZELTI 1A (RWY 27)	- Climb on track 267° to GIX/4 DME - At GIX/4DME turn left to heading 220° to intercept GIX Arc 8 - When crossing GIX R-211 turn left and proceed on GIX R-177 to GIX - Proceed on GIX R-019 to ZELTI
ZELTI 1B (RWY 09)	- Climb on track 092° - Turn left to intercept GIX Arc 7 - When crossing GIX LR-036 turn right and proceed on GIX R-019 to ZELTI

ZELTI 1A - 1B

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

ACC 06 AUG 2026

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 292

LNO 1A - 1B
GEILENKIRCHEN (ETNG)

FRISBEE TOWER 357.375 120.055 118.090	FRISBEE RADAR 267.400 123.730	LANGEN RADAR 359.875 119.110
BEEK RADAR 340.850 123.980	RWY from - to 27 DER - 2000 ft 09 DER - 5500 ft	60 120 180 240 300 360 Reason 550 1100 1650 2200 2750 3300 ATC 500 1000 1500 2000 2500 3000 ATC

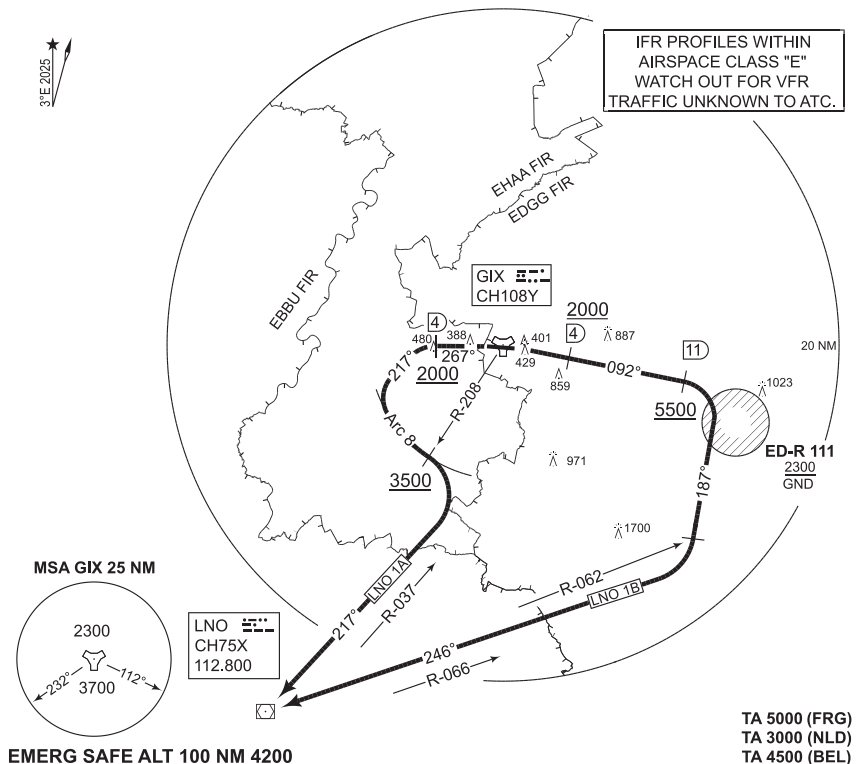
CAUTION:

CLOSE IN OBSTACLES

SPIRE LOCATED 1349 M BEYOND END OF RWY 09, 575 M SOUTH OF CENTERLINE ALTITUDE 429 FT.

NOTE:

DME REQUIRED



EMERG SAFE ALT 100 NM 4200

TA 5000 (FRG)
TA 3000 (NLD)
TA 4500 (BEL)

LNO 1A
(RWY 27)

- Climb on track 267° to GIX/4 DME at 2000 ft or above
- At GIX/4 DME turn left to heading 217° to intercept Arc 8 GIX
- Pass GIX R-208 at 3500 ft or above and turn right to intercept LNO R-037
- Proceed inbound LNO

LNO 1B
(RWY 09)

- Climb on track 092° to GIX/11 DME at 5500 ft or above
- pass GIX/4 DME at 2000 ft or above
- At GIX/11 DME turn right to heading 187°
- When passing LNO R-062 turn right to intercept LNO R-066
- Proceed inbound LNO

LNO 1A - 1B

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 292

NG 209 - 227
GEILENKIRCHEN (ETNG)

FRISBEE TOWER			FRISBEE RADAR				LANGEN RADAR				
357.375	120.055	118.090	267.400		123.730		359.875 119.110				
BEEK RADAR			RWY	from - to	60	120	180	240	300	360	Reason
340.850 123.980			09	DER - 2400 ft	395	790	1185	1580	1975	2370	ATC
CAUTION:			27	DER - 2000 ft	558	1116	1674	2232	2790	3345	ATC

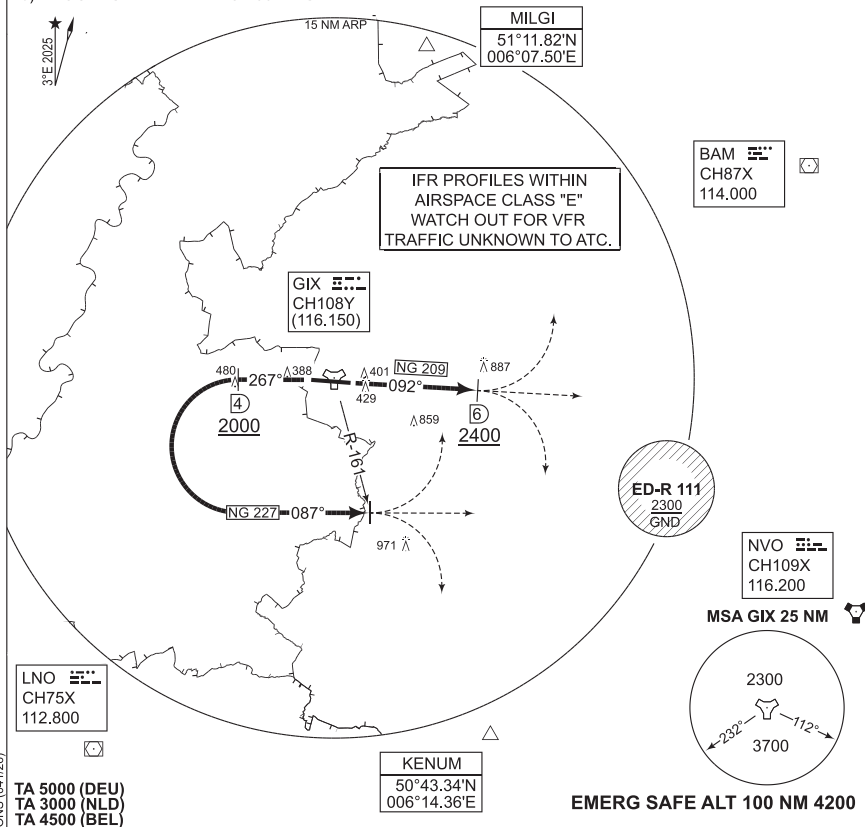
CAUTION:

CLOSE IN OBSTACLES

CHURCH LOCATED 1200M BEHIND END OF RWY 09, 500 M SOUTH OF CENTERLINE ALTITUDE 430 FT.
TREE LOCATED 418 M BEHIND END OF RWY 27, 261 M NORTH OF CENTERLINE ALTITUDE 317 FT.

NOTE:

- DME REQUIRED.
- PROCEDURE LIMITED TO 230 KIAS MAX.



CHANGE CLIMB INSTRUCTIONS (04/12/8)

TA 5000 (DEU)
TA 3000 (NLD)
TA 4500 (BEL)

NG 209 (RWY 09)	- Climb on track 092° to GIX/6 DME - Pass GIX/6 DME at 2400 ft or above - Continue as cleared by ATC
NG 227 (RWY 27)	- Climb on track 267° to 2000 ft - At GIX/4 DME turn left Heading 087° - Pass GIX/4 DME at 2000 ft or above - When passing GIX R-161 continue as cleared by ATC

NG 209 - 227

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

ACC 16 APR 2026

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 292

KENUM 1A - 1B GEILENKIRCHEN (ETNG)

FRISBEE TOWER			FRISBEE RADAR				BEEK RADAR				
357.375	120.055	118.090	267.400	123.730			340.850	123.980			
LANGEN RADAR			RWY	from - to	60	120	180	240	300	360	Reason
359.875	119.110		09	DER - 2100 ft	414	828	1242	1656	2070	2484	ATC
CAUTION:			27	DER - 2000 ft	559	1118	1677	2236	2795	3354	ATC

CAUTION:

CLOSE IN OBSTACLES

CHURCH LOCATED 1200 M BEHIND END OF RWY 09, 500 M SOUTH OF CENTERLINE ALTITUDE 430 FT.
TREE LOCATED 418 M BEHIND END OF RWY 27 261 M NORTH OF CENTERLINE ALTITUDE 317 FT.

NOTE:

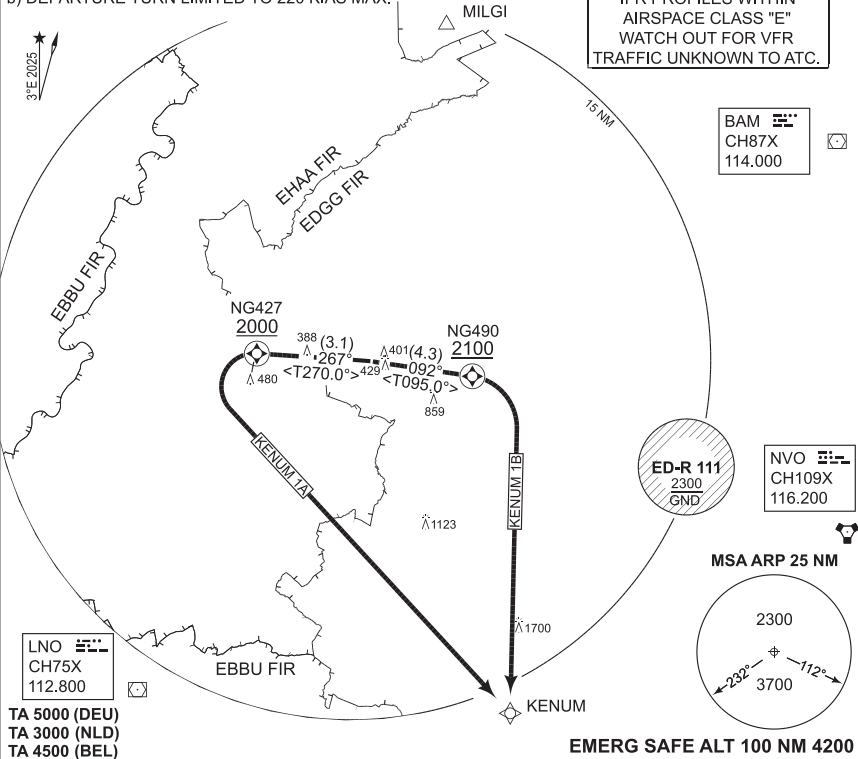
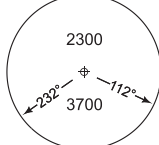
- a) RNAV 1 NAVIGATION APPLICATION:
- GNSS REQUIRED
- DME/DME NOT AUTHORIZED
- b) DEPARTURE TURN LIMITED TO 220 KIAS MAX.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

BAM
CH87X
114.000

NVO
CH109X
116.200

MSA ARP 25 NM



TA 5000 (DEU)
TA 3000 (NLD)
TA 4500 (BEL)

EMERG SAFE ALT 100 NM 4200

CHANGE EDITORIAL (180/25)

KENUM 1A (RWY 27)	- Climb on track 267° to NG427 - Pass NG427 at 2000 ft or above, turn left and proceed direct KENUM - Continue as cleared by ATC GPS/FMS RNAV: - NG427 [M267; K220+; A2000+; L] - KENUM
KENUM 1B (RWY 09)	- Climb on track 092° to NG490 - Pass NG490 at 2100 ft or above, turn right and proceed direct KENUM - Continue as cleared by ATC GPS/FMS RNAV: - NG490 [M092; K220+; A2100+; R] - KENUM

KENUM 1A - 1B

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

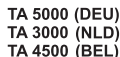
ACC 19 FEB 2026

MILGI 1A - 1B
GEILENKIRCHEN (ETNG)

CHURCH LOCATED 1200 M BEHIND END OF RWY 09, 500 M SOUTH OF CENTERLINE ALTITUDE 430 FT.
TREE LOCATED 418 M BEHIND END OF RWY 27 261 M NORTH OF CENTERLINE ALTITUDE 317 FT.

b) DEPARTURE TURN LIMITED
TO 220 KIAS MAXIMUM

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



- Climb on track 267° to NG427
- Pass NG427 at 2000 ft or above, turn right and proceed direct MILGI
- Continue as cleared by ATC

GPS/FMS RNAV: - NG427 [M267; K220-; A2000+; R] - MILGI

- Climb on track 092° to NG490
- Pass NG490 at 2100 ft or above, turn left and proceed direct MILGI
- Continue as cleared by ATC

GPS/FMS RNAV: - NG490 [M092: K220-: A2100+: L] - MILGI

KENUM 1A RNAV DEPARTURE

	CODING	DISPLAY
NG427	50 57 39.78 N 005 56 18.10 E	50 57.663 N 005 56.302 E
KENUM	50 43 20.55 N 006 14 21.63 E	50 43.343 N 006 14.360 E

KENUM 1B RNAV DEPARTURE

	CODING	DISPLAY
NG490	50 57 15.66 N 006 10 34.95 E	50 57.261 N 006 10.583 E
KENUM	50 43 20.55 N 006 14 21.63 E	50 43.343 N 006 14.360 E

MILGI 1A RNAV DEPARTURE

	CODING	DISPLAY
NG427	50 57 39.78 N 005 56 18.10 E	50 57.663 N 005 56.302 E
MILGI	51 11 49.20 N 006 07 30.00 E	51 11.820 N 006 07.500 E

MILGI 1B RNAV DEPARTURE

	CODING	DISPLAY
NG490	50 57 15.66 N 006 10 34.95 E	50 57.261 N 006 10.583 E
MILGI	51 11 49.20 N 006 07 30.00 E	51 11.820 N 006 07.500 E

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 292

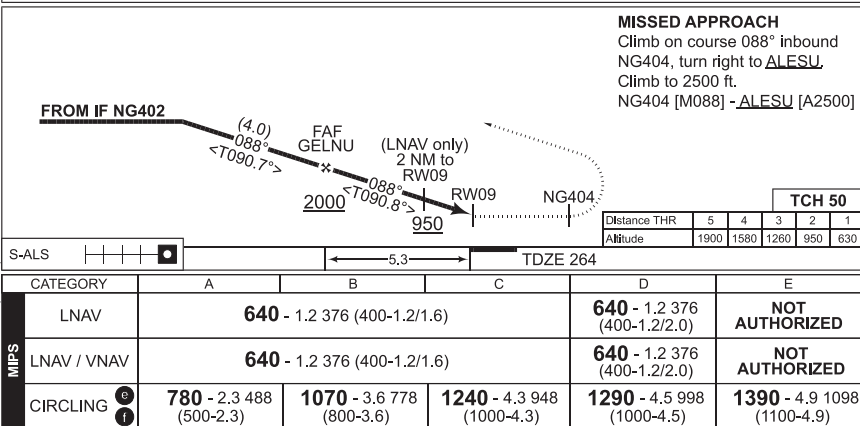
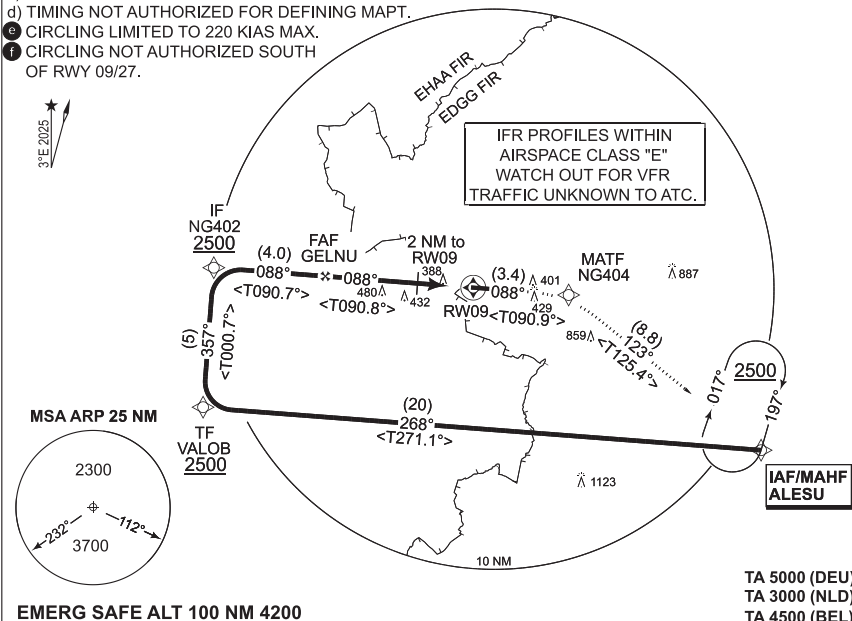
RNAV (GNSS) RWY 09
GEILENKIRCHEN (ETNG)

LANGEN RADAR 359.875 119.110	FRISBEE RADAR 267.400 123.730	FRISBEE TOWER 357.375 120.055 118.090			ATIS 375.550
BEEK RADAR 340.850 123.980	APP COURSE 088°	FAF ALT 2000	DESCENT GR 3.0° / 5.2%	DA/MDA 640	TDZE 264
				ALS-LENGTH 560 M	LDA 9515

NOTE:

- GNSS REQUIRED.
- PROCEDURE LIMITED TO 220 KIAS MAX.
- BARO/VNAV NOT AUTHORIZED BELOW -15°C.
- TIMING NOT AUTHORIZED FOR DEFINING MAPT.
- CIRCLING LIMITED TO 220 KIAS MAX.
- CIRCLING NOT AUTHORIZED SOUTH OF RWY 09/27.

IAF ALESU
50°52.48'N
006°18.10'E



RNAV (GNSS) RWY 09

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

RWY 09 from ALESU APPROACH RNAV (GNSS)

	CODING	DISPLAY
ALESU (IAF)	50 52 28.58 N 006 18 06.19 E	50 52.476 N 006 18.103 E
VALOB (TF)	50 52 47.99 N 005 46 31.25 E	50 52.800 N 005 46.521 E
NG402 (IF)	50 57 47.62 N 005 46 37.21 E	50 57.794 N 005 46.620 E
GELNU (FAF)	50 57 44.44 N 005 52 56.78 E	50 57.741 N 005 52.946 E
RW09	50 57 39.69 N 006 01 19.90 E	50 57.662 N 006 01.332 E
NG404 (MATF)	50 57 36.30 N 006 06 44.37 E	50 57.605 N 006 06.740 E
ALESU (MAHF)	50 52 28.58 N 006 18 06.19 E	50 52.476 N 006 18.103 E

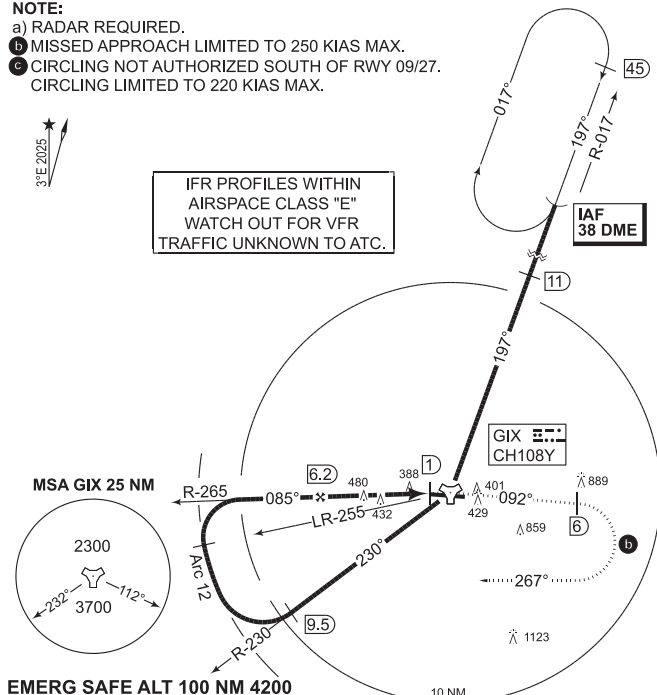
Threshold Coordinates

RWY 09	50 57 39.69 N 006 01 19.90 E	50 57.662 N 006 01.332 E
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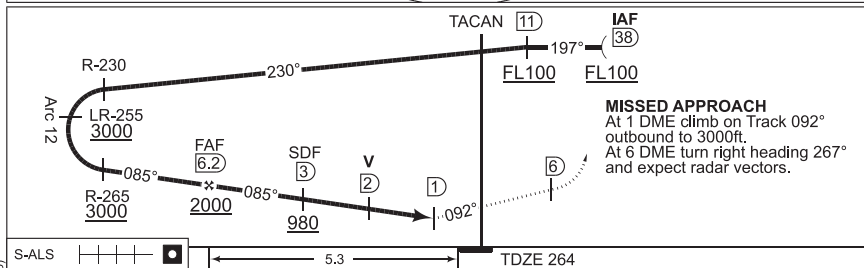
**TACAN RWY 09
GEILENKIRCHEN (ETNG)**

NOTE:
a) RADAR REQUIRED.
b) MISSED APPROACH LIMITED TO 250 KIAS MAX.
c) CIRCLING NOT AUTHORIZED SOUTH OF RWY 09/27.
CIRCLING LIMITED TO 220 KIAS MAX.

IAF
51°33.83'N
006°22.05'E



TA 5000 (DEU)
TA 3000 (NLD)
TA 4500 (BEL)



CATEGORY	A	B	C	D	E
TACAN 09	670 - 1.2 406 (500-1.2/1.5)		730 - 1.3 466 (500-1.3/2.0)		
CIRCLING	780 - 2.3 488 (500-2.3)	1070 - 3.6 778 (800-3.6)	1240 - 4.3 948 (1000-4.3)	1290 - 4.5 998 (1000-4.5)	1390 - 4.9 1098 (1100-4.9)

TACAN RWY 09

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

PANS-OPS INSTRUMENT APPROACH CHART

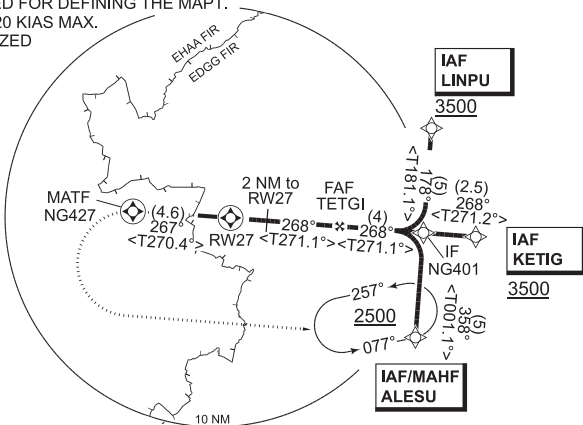
AD ELEV 292

RNAV (GNSS) RWY 27
GEILENKIRCHEN (ETNG)

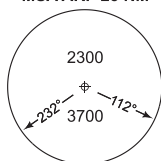
LANGEN RADAR 359.875 119.110	FRISBEE RADAR 267.400 123.730	FRISBEE TWR 357.375 118.090 120.055	BEEK RADAR 340.850 123.980	ATIS 375.550
APP COURSE 268°	FAF ALT 2000	Descent GR 3.0°/5.2%	DA/MDA See CAT	TDZE 290
			ALS-LENGTH 900 M	LDA 9518

NOTE:

- GNSS REQUIRED.
- PROCEDURE LIMITED TO 220 KIAS MAX.
- BARO/VNAV NOT AUTHORIZED BELOW -15°C.
- TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- CIRCLING LIMITED TO 220 KIAS MAX.
- CIRCLING NOT AUTHORIZED SOUTH OF RWY 09/27.



MSA ARP 25 NM



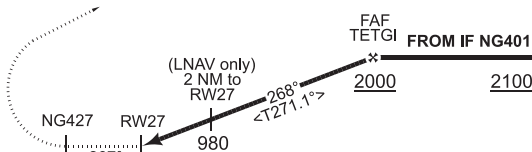
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 4200

TA 5000 (DEU)
TA 3000 (NLD)
TA 4500 (BEL)

MISSED APPROACH

Climb on course 267° inbound
NG427, turn left direct to
ALESU. Climb to 2500 ft.
NG427(L)-ALESU(A2500)



DISP THR	1	2	3	4	5
ALTITUDE	660	980	1290	1610	1930

TDZE 290

5.2

TCH 50
CAT I

CATEGORY	A	B	C	D	E
LNAV	720 - 0.8 430 (500-0.8/1.6)		720 - 1.2 430 (500-1.2/2.0)	720 - 1.6 430 (500-1.6/2.4)	NOT AUTHORIZED
LNAV / VNAV	680 - 0.8 390 (400-0.8/1.6)		680 - 1.2 390 (400-1.2/1.6)	680 - 1.2 390 (400-1.2/2.0)	NOT AUTHORIZED
CIRCLING	780 - 2.3 488 (500-2.3)	1070 - 3.6 778 (800-3.6)	1240 - 4.3 948 (1000-4.3)	1290 - 4.5 998 (1000-4.5)	1390 - 4.9 1098 (1100-4.9)

RNAV (GNSS) RWY 27

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

RWY 27 from LINPU APPROACH RNAV (GNSS)

	CODING	DISPLAY
LINPU (IAF)	51 02 27.77 N 006 18 25.07 E	51 02.463 N 006 18.418 E
NG401 (IF)	50 57 28.18 N 006 18 15.62 E	50 57.470 N 006 18.260 E
TETGI (FAF)	50 57 32.77 N 006 11 56.12 E	50 57.546 N 006 11.935 E
RW27	50 57 38.25 N 006 03 40.89 E	50 57.637 N 006 03.681 E
NG427 (MATF)	50 57 39.78 N 005 56 18.10 E	50 57.663 N 005 56.302 E
ALESU (MAHF)	50 52 28.58 N 006 18 06.19 E	50 52.476 N 006 18.103 E

RWY 27 from KETIG APPROACH RNAV (GNSS)

	CODING	DISPLAY
KETIG (IAF)	50 57 25.13 N 006 22 12.80 E	50 57.419 N 006 22.213 E
NG401 (IF)	50 57 28.18 N 006 18 15.62 E	50 57.470 N 006 18.260 E
TETGI (FAF)	50 57 32.77 N 006 11 56.12 E	50 57.546 N 006 11.935 E
RW27	50 57 38.25 N 006 03 40.89 E	50 57.637 N 006 03.681 E
NG427 (MATF)	50 57 39.78 N 005 56 18.10 E	50 57.663 N 005 56.302 E
ALESU (MAHF)	50 52 28.58 N 006 18 06.19 E	50 52.476 N 006 18.103 E

RWY 27 from ALESU APPROACH RNAV (GNSS)

	CODING	DISPLAY
ALESU (IAF)	50 52 28.58 N 006 18 06.19 E	50 52.476 N 006 18.103 E
NG401 (IF)	50 57 28.18 N 006 18 15.62 E	50 57.470 N 006 18.260 E
TETGI (FAF)	50 57 32.77 N 006 11 56.12 E	50 57.546 N 006 11.935 E
RW27	50 57 38.25 N 006 03 40.89 E	50 57.637 N 006 03.681 E
NG427 (MATF)	50 57 39.78 N 005 56 18.10 E	50 57.663 N 005 56.302 E
ALESU (MAHF)	50 52 28.58 N 006 18 06.19 E	50 52.476 N 006 18.103 E

Threshold Coordinates

RWY 27	50 57 38.25 N 006 03 40.89 E	50 57.637 N 006 03.681 E
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PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 292

ILS Y or LOC RWY 27
GEILENKIRCHEN (ETNG)

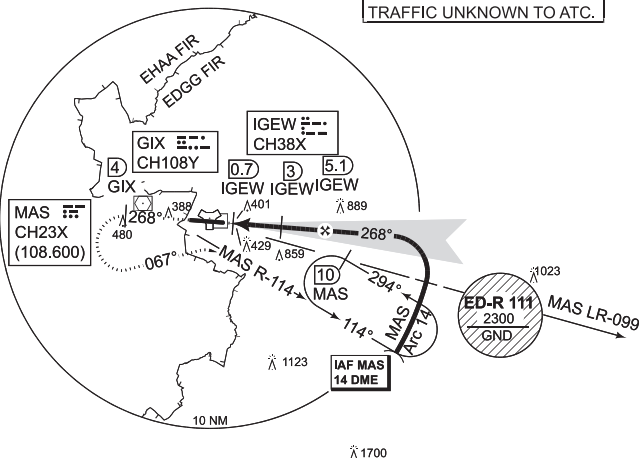
LANGEN RADAR 359.875 119.110	FRISBEE RADAR 267.400 123.730 143.400	FRISBEE TOWER 357.375 120.055 118.090	BEEK RADAR 340.850 123.980
LOCALIZER/DME IGEW 110.100/CH38X	APP COURSE 268°	GS INTCP ALT 1900	GS 3.0° / 5.2%
		DA See CAT	THR ELEV 290
			ALS-LENGTH 900 M
			LDA 9516

NOTE:

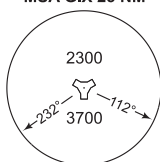
- DME REQUIRED.
- NO TURN BEFORE MAPT.
- PROCEDURE LIMITED TO 220 KIAS MAX.
- TIMING NOT AUTHORIZED FOR DEFINING MAPT.
- CIRCLING LIMITED TO 220 KIAS MAX.
- CIRCLING NOT AUTHORIZED SOUTH OF RWY 09/27.

IAF
50°52.04'N
006°17.39'E

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA GIX 25 NM

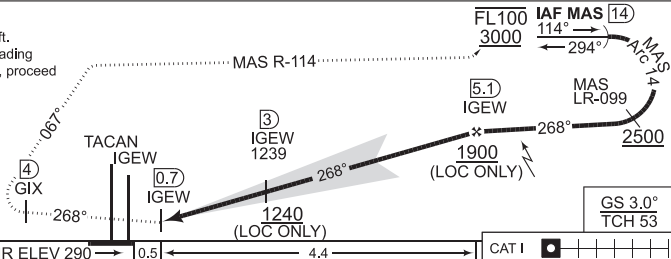


EMERG SAFE ALT 100 NM 4200

TA 5000 (DEU)
TA 3000 (NLD)
TA 4500 (BEL)

MISSED APPROACH

CLimb on track 268° to 3000 ft.
At GIX 4 DME turn left on heading
067° to intercept MAS R-114, proceed
to IAF or inbound holding.



CATEGORY	A	B	C	D	E
ILS 27	490 - 0.8/550 200 (200-0.8/1.2)				508 - 0.8/550 218 (300-0.8/1.2)
LOC 27	710 - 1.2 420 (500-1.2/1.5)		710 - 1.2 420 (500-1.2/1.9)		
CIRCLING	780 - 2.3 488 (500-2.3)	1070 - 3.6 778 (800-3.6)	1240 - 4.3 948 (1000-4.3)	1290 - 4.5 998 (1000-4.5)	1390 - 4.9 1098 (1100-4.9)

ILS Y or LOC RWY 27

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 292

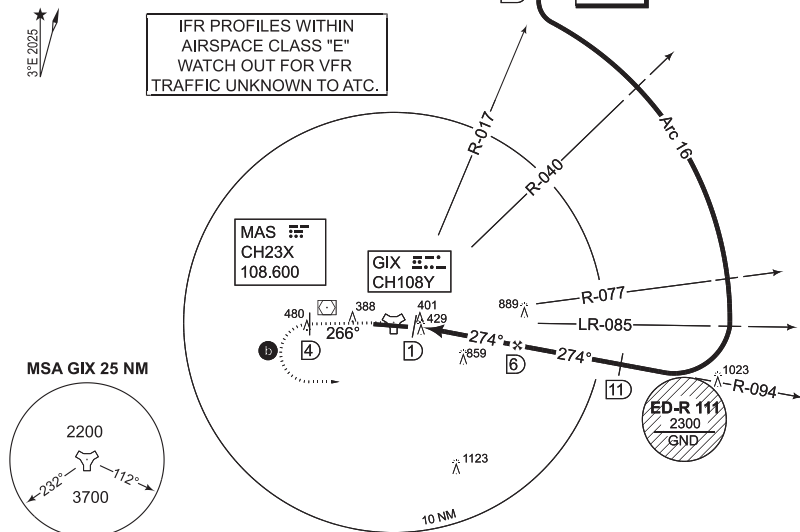
TACAN RWY 27
GEILENKIRCHEN (ETNG)

LANGEN RADAR 359.875 119.110	FRISBEE RADAR 267.400 123.730	FRISBEE TOWER 357.375 120.055 118.090			BEEK RADAR 340.850 123.980	ATIS 375.550
TACAN GIX CH108Y	APP COURSE 274°	FAF ALT 2000	MDA 730	GS 5.2%	TDZE 290	ALS-LENGTH 900 M
						LDA 9516

NOTE:

- a) RADAR REQUIRED.
- b) MISSED APPROACH LIMITED TO 230 KIAS MAX.
- c) CIRCLING NOT AUTHORIZED SOUTH OF RWY 09/27.
CIRCLING LIMITED TO 220 KIAS MAX.

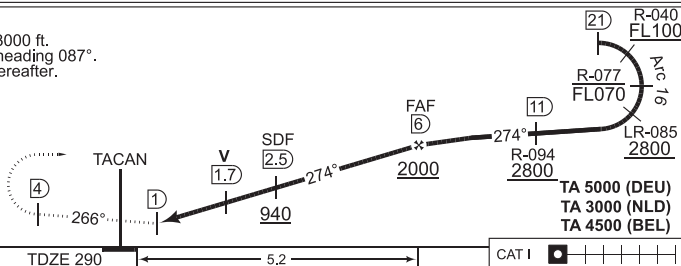
IAF
51°33.83'N
006°22.05'E



EMERG SAFE ALT 100 NM 4200

MISSED APPROACH

Climb on track 266° to 3000 ft.
At GIX 4 DME turn left heading 087°.
Expect radar vectors thereafter.



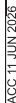
TDZE 290	5.2					CAT I
CATEGORY	A	B	C	D	E	
TACAN 27	730 - 1.3 422 (500-1.3/1.5)		730 - 1.3 422 (500-1.3/2.0)			
c CIRCLING	780 - 2.3 488 (500-2.3)	1070 - 3.6 778 (800-3.6)	1240 - 4.3 948 (1000-4.3)	1290 - 4.5 998 (1000-4.5)	1390 - 4.9 1098 (1100-4.9)	

TACAN RWY 27

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

HOHN (ETNH)

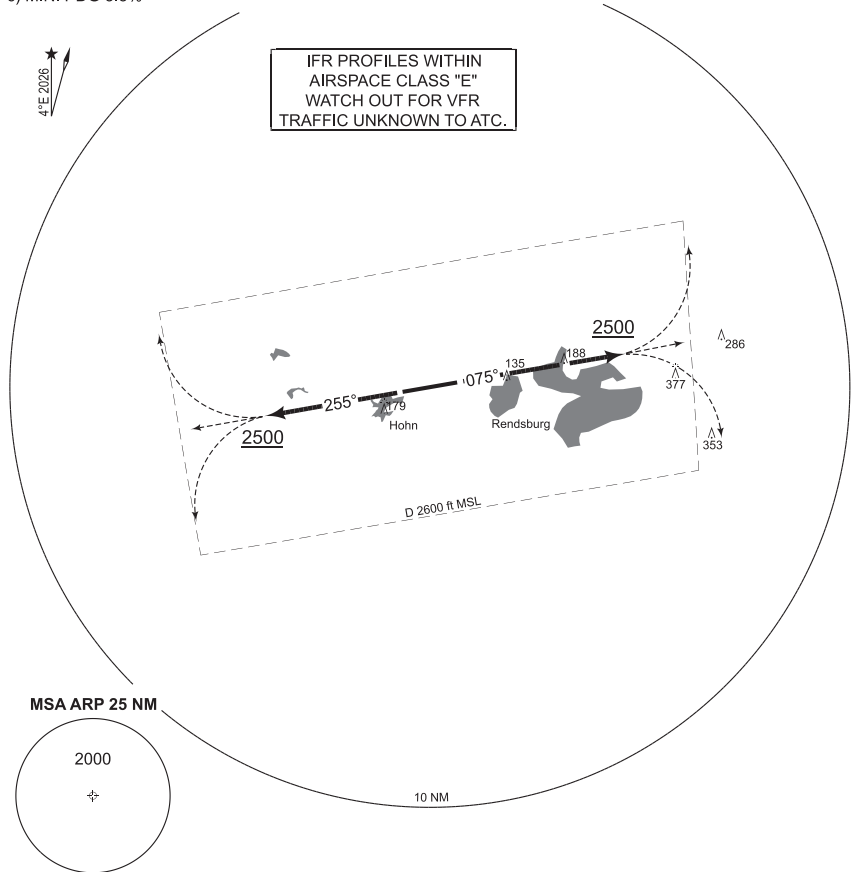
[illegible]

AD ELEV 39

HOHN TWR			HOHN RADAR			BREMEN RADAR					
336.375	141.700	123.710	240.725	141.100	128.380	299.100 124.075					
			RWY	From to	60	120	180	240	300	Reason	
			08	DER - 2500 ft	608	1216	1824	2432	3040	ATC	
NOTE:			26	DER - 2500 ft	608	1216	1824	2432	3040	ATC	

NOTE:

- a) NO TURN BEFORE DER.
b) WATCH OUT FOR CLOSE-IN OBSTACLES TREES IN DEPARTURE SECTOR 08/26.
c) MIN. PDG 3.3%



EMERG SAFE ALT 100 NM 2500

TA 5000

NH 108 (RWY 08)	- Climb straight ahead 2500 ft - Continue as cleared by ATC - No turn before DER
NH 126 (RWY 26)	- Climb straight ahead to 2500 ft - Continue as cleared by ATC - No turn before DER

NH 108 - 126

54°18.73'N
009°32.29'E

HOHN (ETNH)

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 39

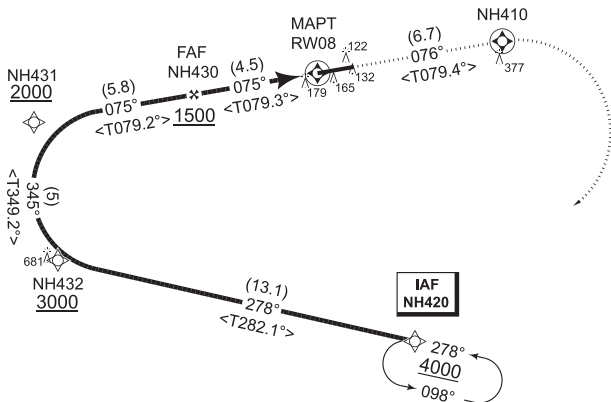
RNP RWY 08
HOHN (ETNH)

HOHN TWR 336.375 141.700 123.710		HOHN RADAR 240.725 141.100 128.380		BREMEN RADAR 299.100 124.075		
APP COURSE 075°	FAF ALT 1500	GS 3° / 5.2%	DA / MDA See CAT	THR ELEV 26	ALS-LENGTH 900 M	LDA 8004

NOTE:

- GNSS REQUIRED.
- PROCEDURE LIMITED TO 220 KIAS MAX.
- BARO/VNAV NOT AUTHORIZED BELOW -30°C.
- NO TURN BEFORE MAPT.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



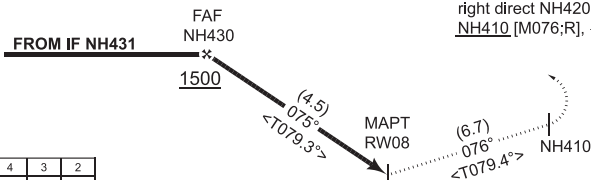
MSA ARP 25 NM

EMERG SAFE ALT 100 NM 2500

TA 5000

MISSED APPROACH

Climb on track 076° to NH410. Turn right direct NH420, climb to 4000 ft. NH410 [M076;R], → NH420 [A4000]



Distance THR	4.5	4	3	2
Altitude	1500	1300	1000	700

TCH 50

4.5		THR ELEV 26	NO LIGHTS
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CATEGORY	A	B	C	D	E
LNAV	430 - 1.2 404 (500-1.2/1.5)		430 - 1.2 404 (500-1.2/1.9)		
LNAV / VNAV	309 - 0.8 650 283 (300-0.8/1.4)	321 - 0.8 650 295 (300-0.8/1.4)	329 - 0.8 700 303 (400-0.8/1.4)	339 - 0.8 700 313 (400-0.8/1.4)	358 - 0.8 800 332 (400-0.8/1.5)

RNP RWY 08

54°18.73'N
009°32.29'E

HOHN (ETNH)

RNP RWY 08 FROM NH420:

	CODING	DISPLAY
NH420 (IAF)	54 09 06.23 N 009 37 18.74 E	54 09.104 N 009 37.312 E
NH432 (TF)	54 11 48.25 N 009 15 33.32 E	54 11.804 N 009 15.555 E
NH431 (IF)	54 16 42.43 N 009 13 57.45 E	54 16.707 N 009 13.958 E
NH430 (FAF)	54 17 47.24 N 009 23 40.82 E	54 17.787 N 009 23.680 E
RW08 (MAPT)	54 18 36.68 N 009 31 11.00 E	54 18.611 N 009 31.183 E
NH410 (MATF)	54 19 49.82 N 009 42 25.46 E	54 19.830 N 009 42.424 E
NH420 (MAHF)	54 09 06.23 N 009 37 18.74 E	54 09.104 N 009 37.312 E

Threshold Coordinates

RWY 08	54 18 36.68 N 009 31 11.00 E	54 18.611 N 009 31.183 E
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PANS-OPS INSTRUMENT APPROACH CHART

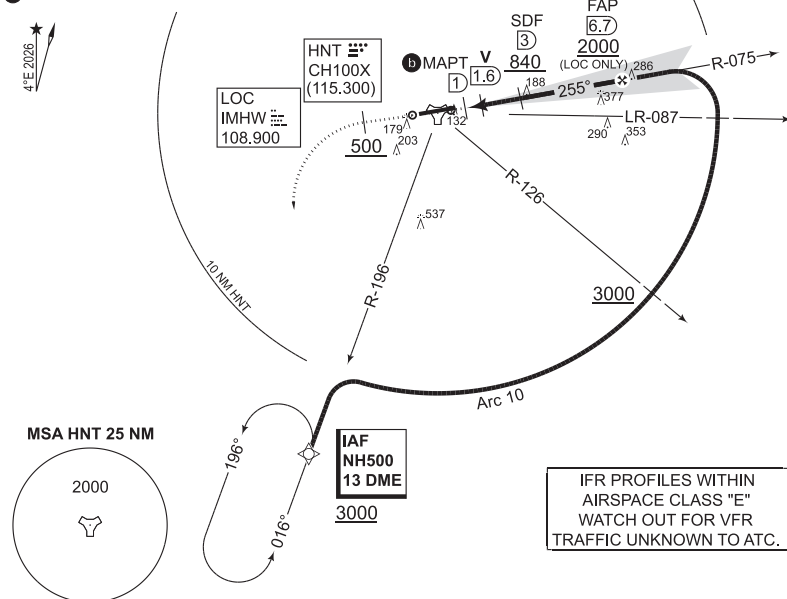
ILS or LOC RWY 26
HOHN (ETNH)

HOHN TWR 336.375 141.700 123.710			HOHN RADAR 240.725 141.100 128.380			BREMEN RADAR 299.100 124.075		
TACAN/LOCALIZER CH100X/IMHW 108.9	APP COURSE 255°	FAP ALT 2000	DESCENT GR 5.24%	DA/MDA See CAT	THR ELEV 38	ALS-LENGTH 900 M	LDA 8004	

NOTE:

- a) DME REQUIRED.
b) NO TURN BEFORE MAPT.

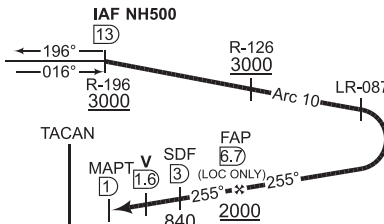
IAF NH500
54°06.45'N
009°24.77'E



EMERG SAFE ALT 100 NM 2500

MISSED APPROACH

Climb on RWY heading to 3000 ft.
When passing 500 ft turn left and intercept HNT R-196 outbound to IAF.



TA 5000

HNT	2	3	4	5	6	6.7
Altitude	520	840	1160	1470	1780	2000

THR ELEV 38			CAT I		
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CATEGORY		A	B	C	D
MIPS	ILS 26	238 - 0.8/550 200 (200-0.8/1.2)		247 - 0.8/550 209 (300-0.8/1.2)	257 - 0.8/550 219 (300-0.8/1.2)
	LOC 26	440 - 1.2 402 (500-1.2/1.5)		440 - 1.2 402 (500-1.2/1.9)	
	PAR 26	238 - 0.8 550 200 (200-0.8/1.2)			

ILS or LOC RWY 26

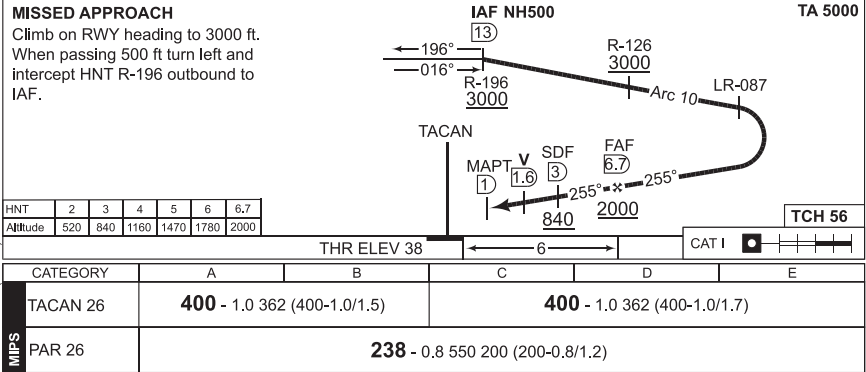
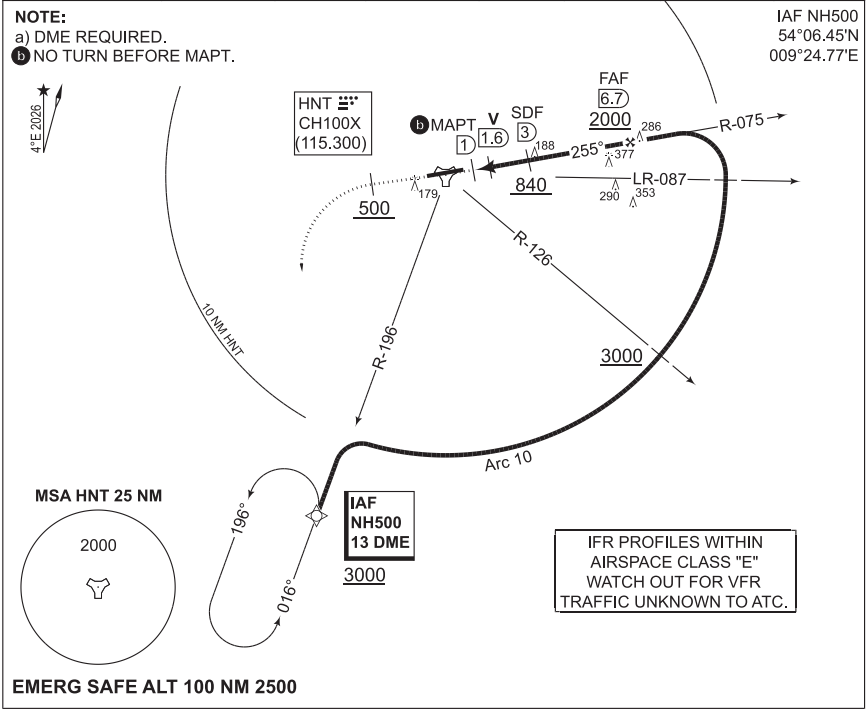
54°18.73'N
009°32.29'E

HOHN (ETNH)

PANS-OPS
INSTRUMENT APPROACH CHART

TACAN RWY 26
HOHN (ETNH)

HOHN TWR			HOHN RADAR			BREMEN RADAR		
336.375	141.700	123.710	240.725	141.100	128.380	299.100	124.075	
NAVAID	APP COURSE	FAF ALT	DESCENT GR	MDA		THR ELEV	ALS-LENGTH	LDA
HNT CH100X	255°	2000	5.24%	See CAT		38	900 M	8004



TACAN RWY 26

54°18.73'N
009°32.29'E

HOHN (ETNH)

CHANGE: PAR MINIMA (126/26)

ACC 11 JUN 2026

PANS-OPS INSTRUMENT APPROACH CHART

RNP RWY 26
HOHN (ETNH)

HOHN TWR 336.375 141.700 123.710		HOHN RADAR 240.725 141.100 128.380		BREMER RADAR 299.100 124.075	
APP COURSE 255°	FAF ALT 1800	GS 3° / 5.2%	DA / MDA See CAT	THR ELEV 38	ALS-LENGTH 900 M
					LDA 8004

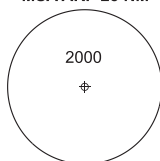
NOTE:

- GNSS REQUIRED.
- PROCEDURE LIMITED TO 220 KIAS MAX.
- BARO/VNAV NOT AUTHORIZED BELOW -30°C.
- NO TURN BEFORE MAPT.

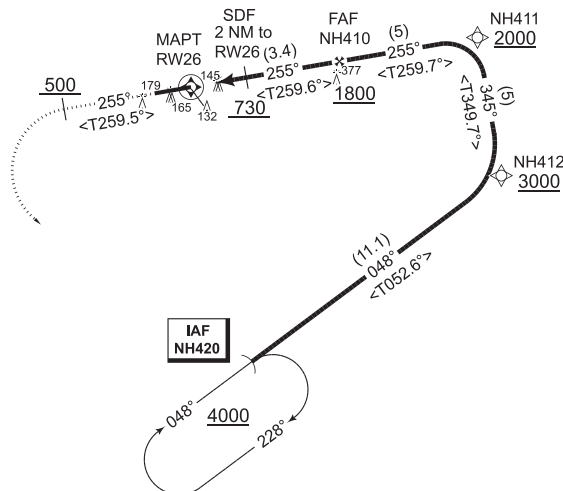
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA ARP 25 NM



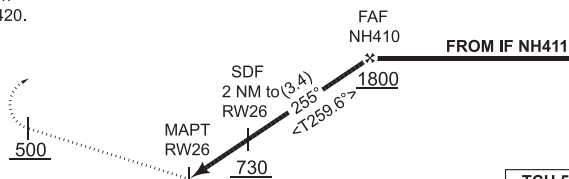
EMERG SAFE ALT 100 NM 2500



MISSED APPROACH

Climb on track 255° to 4000 ft. When passing 500 ft turn left direct to NH420. M256 [A500;L], → NH420 [A4000]

TA 5000



CHANGE: VAR, FREQ, TRACKS, MA (06/3/26)

Distance THR	2	3	4	5	5.4
Altitude	730	1000	1300	1600	1800

THR ELEV 38

5.4

TCH 50

CAT I

CATEGORY	A	B	C	D	E
LNAV	400 - 1.0 362 (400-1.0/1.5)		400 - 1.0 362 (400-1.0/1.7)		
LNAV / VNAV	275 - 0.8 550 237 (300-0.8/1.2)	288 - 0.8 550 250 (300-0.8/1.3)	295 - 0.8 600 257 (300-0.8/1.3)	305 - 0.8 600 267 (300-0.8/1.3)	324 - 0.8 650 286 (300-0.8/1.4)

RNP RWY 26

54°18.73'N
009°32.29'E

HOHN (ETNH)

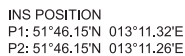
ACG 16 APR 2026

RNP RWY 26 FROM NH420:

	CODING	DISPLAY
NH420 (IAF)	54 09 06.23 N 009 37 18.74 E	54 09.104 N 009 37.312 E
NH412 (TF)	54 15 49.11 N 009 52 21.23 E	54 15.818 N 009 52.354 E
NH411 (IF)	54 20 43.76 N 009 50 49.59 E	54 20.729 N 009 50.827 E
NH410 (FAF)	54 19 49.82 N 009 42 25.46 E	54 19.830 N 009 42.424 E
RW26 (MAPT)	54 18 51.16 N 009 33 23.66 E	54 18.853 N 009 33.394 E
NH420 (MAHF)	54 09 06.23 N 009 37 18.74 E	54 09.104 N 009 37.312 E

Threshold Coordinates

RWY 26	54 18 51.16 N 009 33 23.66 E	54 18.853 N 009 33.394 E
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HOLZDORF (ETSH)CHANGE: PAR (084/26)

ACC 16 APR 2026

HOLZDORF (ETSH)

PANS-OPS
INSTRUMENT DEPARTURE CHART

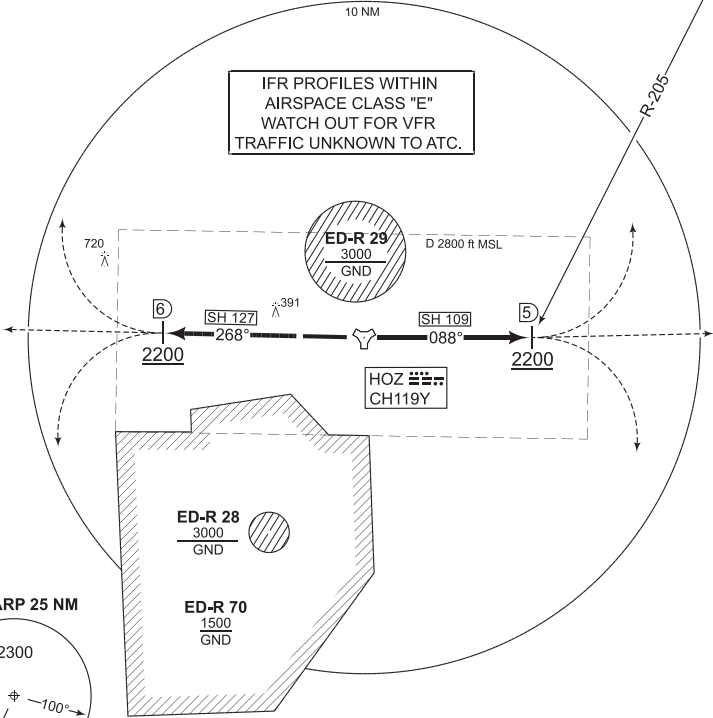
AD ELEV 265
SH 109 - 127
HOLZDORF (ETSH)

HOLZDORF TWR		HOLZDORF RADAR		BREMEN RADAR	
267.400	130.505	254.925	129.855	398.575	126.425

RWY	from - to	60	120	180	240	300	360	Reason
09	DER - 2200 ft	359	718	1077	1436	1795	2154	ATC
27	DER - 2200 ft	480	960	1440	1920	2400	2880	ATC



KLF
CH98Y
115.150



CHANGE: ED-R 28 AND ED-R 29 ADDED (153/26)

EMERG SAFE ALT 100 NM 6400

TA 5000

SH 109 (RWY 09)	- Climb on track 088° to HOZ/5 DME - Pass HOZ/5 DME at 2200 ft or above - Continue as cleared by ATC
SH 127 (RWY 27)	- Climb on track 268° to HOZ/6 DME - Pass HOZ/6 DME at 2200 ft or above - Continue as cleared by ATC

SH 109 - 127

51°46.07'N
013°10.06'E

HOLZDORF (ETSH)

ACC 06 AUG 2026

PANS-OPS INSTRUMENT APPROACH CHART

RNP RWY 09
HOLZDORF (ETSH)

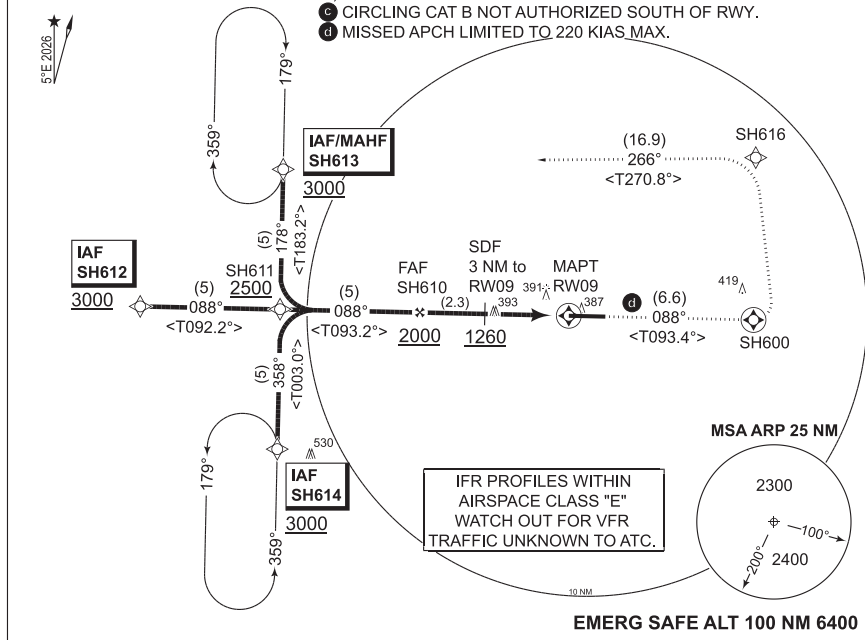
AD ELEV 265

BREMEN RADAR 398.575 126.425		HOLZDORF RADAR 254.925 397.500 123.300 129.855			HOLZDORF TOWER 267.400 130.505 122.100		
APP COURSE 088°	FAF ALT 2000	DESCENT GR 3° / 5.2%	DA / MDA See CAT		THR ELEV 254	ALS-LENGTH 900 M	LDA 7938

EGNOS CHANNEL
98223 E09A

NOTE:

- a) GNSS REQUIRED.
- b) BARO VNAV NOT AUTHORIZED BELOW -30°C.
- c) CIRCLING CAT B NOT AUTHORIZED SOUTH OF RWY.
- d) MISSED APCH LIMITED TO 220 KIAS MAX.

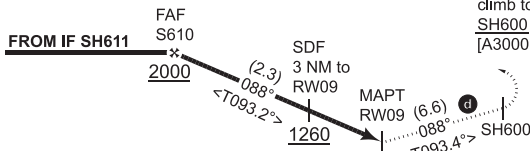


Dist THR / RW09	5.3	5	4	3	2	1
Altitude	2000	1900	1580	1260	940	620

TA 5000

MISSED APPROACH d

Climb on course 088° to SH600, turn left direct to SH616, to SH613, climb to 3000 ft.
SH600 [M088;L]→SH616; SH613 [A3000+;K220-]



TCH 50

CAT I

5.3

THR ELEV 254

CATEGORY	A	B	C	D
LNAV	650 - 1.1 396 (400-1.0/1.5)		650 - 1.1 396 (400-1.1/1.8)	
LNAV/VNAV	521 - 0.8 600 267 (300-0.8/1.3)	533 - 0.8 600 279 (300-0.8/1.3)	541 - 0.8 650 287 (300-0.8/1.4)	551 - 0.8 650 297 (300-0.8/1.4)
LPV	454 - 0.8 550 200 (200-0.8/1.2)	459 - 0.8 550 205 (300-0.8/1.2)	467 - 0.8 550 213 (300-0.8/1.2)	477 - 0.8 550 223 (300-0.8/1.2)
CIRCLING	760 - 2.3 495 (500-2.3)		NOT AUTHORIZED	

RNP RWY 09

51°46.07'N
013°10.06'E

HOLZDORF (ETSH)

RNP RWY 09 FROM SH612:

	CODING	DISPLAY
SH612 (IAF)	51 46 57.18 N 012 44 22.28 E	51 46.953 N 012 44.371 E
SH611 (TF)	51 46 41.77 N 012 52 24.67 E	51 46.696 N 012 52.411 E
SH610 (FAF)	51 46 25.05 N 013 00 26.91 E	51 46.417 N 013 00.448 E
RW09 (MAPT)	51 46 06.63 N 013 09 00.36 E	51 46.111 N 013 09.006 E
SH600 (TF)	51 45 42.96 N 013 19 37.01 E	51 45.716 N 013 19.617 E
SH616 (TF)	51 51 30.04 N 013 20 06.39 E	51 51.501 N 013 20.106 E
SH613 (MAHF)	51 51 40.93 N 012 52 51.24 E	51 51.682 N 012 52.854 E

RNP RWY 09 FROM SH613:

	CODING	DISPLAY
SH613 (IAF)	51 51 40.93 N 012 52 51.24 E	51 51.682 N 012 52.854 E
SH611 (TF)	51 46 41.77 N 012 52 24.67 E	51 46.696 N 012 52.411 E
SH610 (FAF)	51 46 25.05 N 013 00 26.91 E	51 46.417 N 013 00.448 E
RW09 (MAPT)	51 46 06.63 N 013 09 00.36 E	51 46.111 N 013 09.006 E
SH600 (TF)	51 45 42.96 N 013 19 37.01 E	51 45.716 N 013 19.617 E
SH616 (TF)	51 51 30.04 N 013 20 06.39 E	51 51.501 N 013 20.106 E
SH613 (MAHF)	51 51 40.93 N 012 52 51.24 E	51 51.682 N 012 52.854 E

RNP RWY 09 FROM SH614:

	CODING	DISPLAY
SH614 (IAF)	51 41 42.56 N 012 51 59.44 E	51 41.709 N 012 51.991 E
SH611 (TF)	51 46 41.77 N 012 52 24.67 E	51 46.696 N 012 52.411 E
SH610 (FAF)	51 46 25.05 N 013 00 26.91 E	51 46.417 N 013 00.448 E
RW09 (MAPT)	51 46 06.63 N 013 09 00.36 E	51 46.111 N 013 09.006 E
SH600 (TF)	51 45 42.96 N 013 19 37.01 E	51 45.716 N 013 19.617 E
SH616 (TF)	51 51 30.04 N 013 20 06.39 E	51 51.501 N 013 20.106 E
SH613 (MAHF)	51 51 40.93 N 012 52 51.24 E	51 51.682 N 012 52.854 E

Threshold Coordinates

RWY 09	51 46 06.63 N 013 09 00.36 E	51 46.111 N 013 09.006 E
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PANS-OPS
INSTRUMENT APPROACH CHART

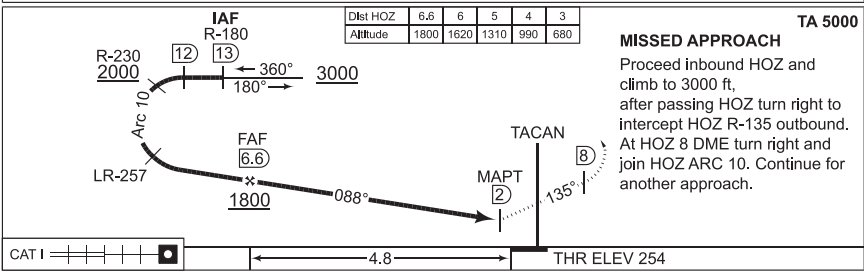
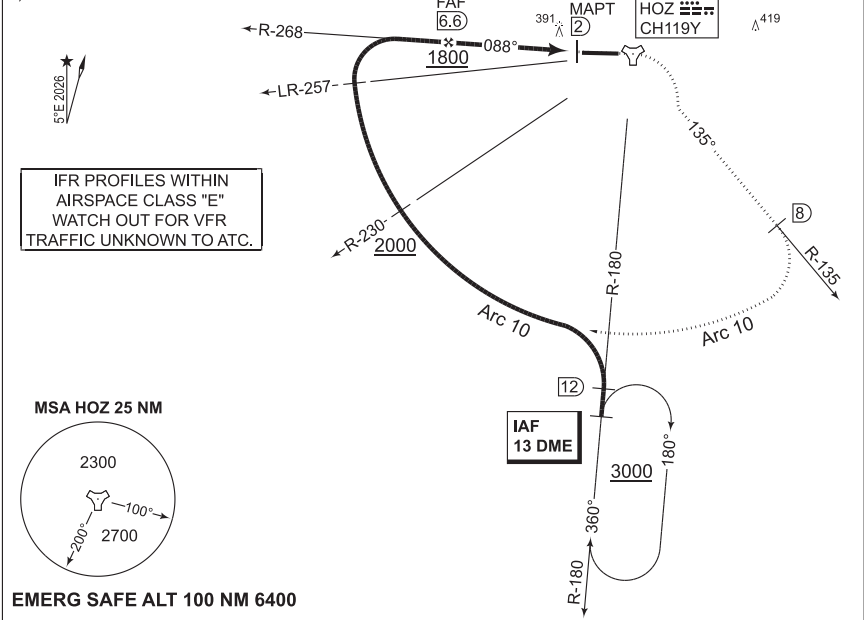
AD ELEV 265

TACAN RWY 09
HOLZDORF (ETSH)

BREMEN RADAR		HOLZDORF RADAR				HOLZDORF TWR		
398.575	126.425	254.925	397.500	123.300	129.855	267.400	130.505	122.100
NAVAID	APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA	
HOZ CH119Y	088°	1800	5.2%	670	254	900 M	7938	

NOTE:
a) CIRCLING CAT B NOT AUTHORIZED
SOUTH OF RWY 09/27.
b) PAPI TCH 55 FT.

IAF
51°33.08'N
013°10.00'E



CATEGORY		A	B	C	D
MPS	TACAN 09	670 - 1.2 416 (500-1.2/1.5)		670 - 1.2 416 (500-1.2/1.9)	
	CIRCLING	760 - 2.3 495 (500-2.3)	a 760 - 2.3 495 (500-2.3)	NOT AUTHORIZED	
	S-PAR 09	460 - 0.8 550 200 (200-0.8/1.2) GS 3.0°			

TACAN RWY 09

51°46.07'N
013°10.06'E

HOLZDORF (ETSH)

CHANGE: MSA (040/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 265

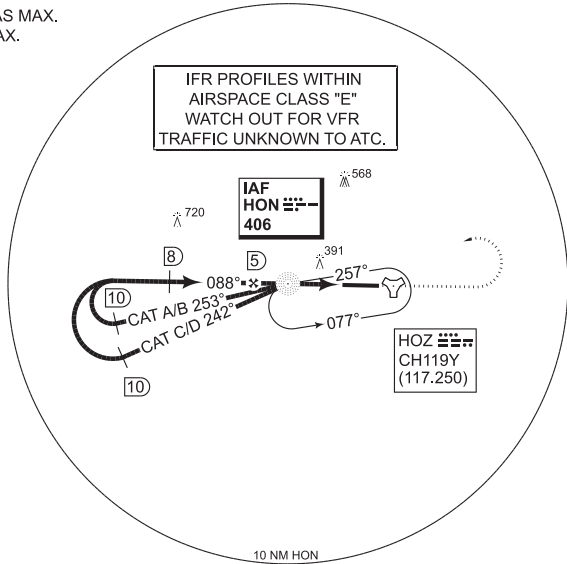
NDB RWY 09
HOLZDORF (ETSH)

BREMEN RADAR		HOLZDORF RADAR				HOLZDORF TWR		
398.575	126.425	254.925	397.500	123.300	129.855	267.400	130.505	122.100
NAVAID	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA	
HON 406	088°	1400	5.7%	640	260	900 M	7938	

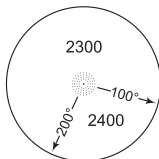
NOTE:

- a) CIRCLING CAT B NOT AUTHORIZED SOUTH OF RWY 09/27.
- b) FOR CAT C/D ACFT: 200 KIAS MAX.
- c) MISSED APCH: 200 KIAS MAX.
- d) DME REQUIRED.

IAF
51°46.22'N
013°05.87'E



MSA HON 25 NM

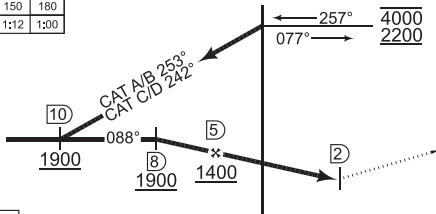


EMERG SAFE ALT 100 NM 6400

FAF to MAP 3 NM					
Knots	60	90	120	150	180
min/sec	3:00	2:00	1:30	1:12	1:00

IAF/NDB

TA 5000



CAT I

3.20 TDZE 260

CATEGORY	A	B	C	D	E
NDB 09	640 - 0.8 380 (400-0.8/1.6)		640 - 1.2 380 (400 - 1.2/1.6)	640 - 1.2 380 (400 - 1.2/2.0)	NOT AUTHORIZED
CIRCLING	760 - 1.6 495 (500 - 1.6)	a) 760 - 1.6 495 (500 - 1.6)	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED

NDB RWY 09

51°46.07'N
013°10.06'E

HOLZDORF (ETSH)

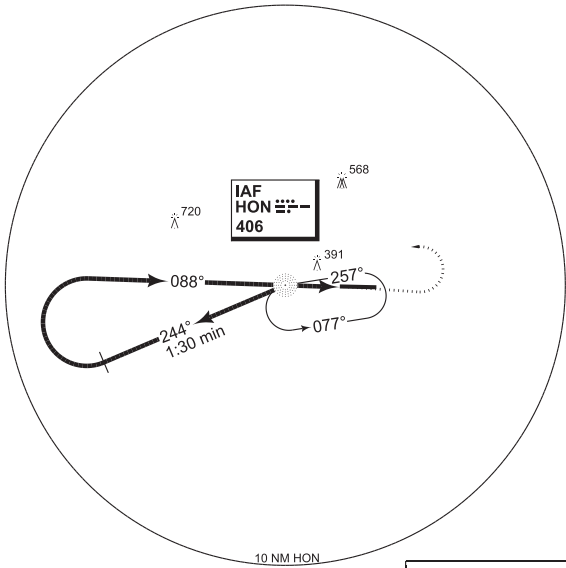
**PANS-OPS
INSTRUMENT APPROACH CHART**

AD ELEV 265

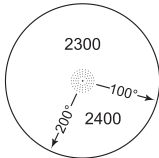
**COPTER NDB RWY 09
HOLZDORF (ETSH)**

BREMEN RADAR			HOLZDORF RADAR				HOLZDORF TWR		
398.575	126.425		254.925	397.500	123.300	129.855	267.400	130.505	122.100
NAVAID	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA		
HON 406	088°	1100	5.9%	640	260	900 M	7938		

IAF
51°46.22'N
013°05.87'E



MSA HON 25 NM



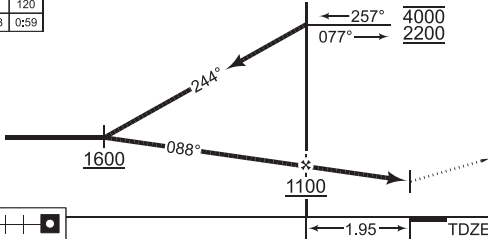
EMERG SAFE ALT 100 NM 6400

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

FAF to MAP 1.95 NM			
Knots	60	90	120
min:sec	1:57	1:18	0:59

IAF/NDB

TA 5000



MISSED APPROACH
Climb straight ahead to
1000 ft. Turn left inbound
HON NDB and climb to
2200 ft.

CAT I		■
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CATEGORY	H
COPTER NDB 09	640 - 0.4 380 (400-0.4/0.8)

COPTER NDB RWY 09

51°46.07'N
013°10.06'E

HOLZDORF (ETSH)

CHANGE: EDITORIAL (183/25)

ACC 19 FEB 2026

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 265

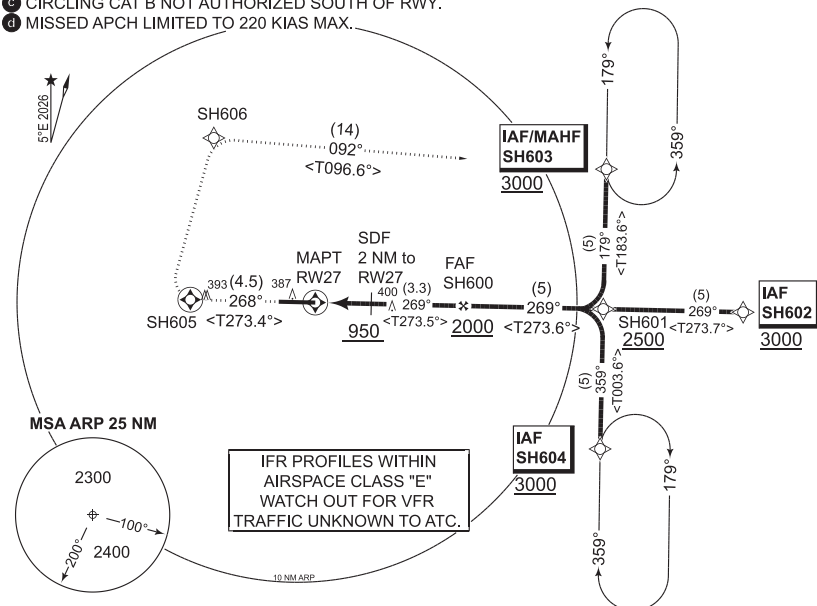
RNP RWY 27
HOLZDORF (ETSH)

BREMEN RADAR 398.575 126.425		HOLZDORF RADAR 254.925 397.500 123.300 129.855			HOLZDORF TOWER 267.400 130.505 122.100		
APP COURSE 269°	FAF ALT 2000	DESCENT GR 3° / 5.2%	DA / MDA See CAT		THR ELEV 263	ALS-LENGTH 900 M	LDA 7938

NOTE:

- GNSS REQUIRED.
- BARO VNAV NOT AUTHORIZED BELOW -30°C.
- CIRCLING CAT B NOT AUTHORIZED SOUTH OF RWY.
- MISSSED APCH LIMITED TO 220 KIAS MAX.

EGNOS CHANNEL
75892 E27A



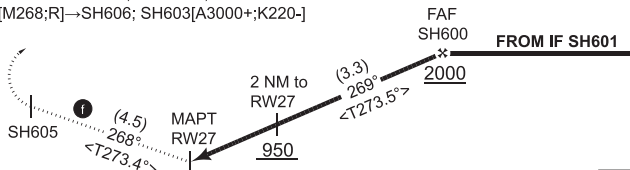
EMERG SAFE ALT 100 NM 6400

MISSSED APPROACH ①

Climb on course 268° to SH605.
turn right direct to SH606, to SH603, climb to 3000 ft.
SH605 [M268;R]→SH606; SH603[A3000+;K220-]

Dist THR / RW27	1	2	3	4	5	5.3
Altitude	630	950	1260	1580	1900	2000

TA 5000



TCH 50

THR ELEV 263

CAT I

CATEGORY	A	B	C	D
LNAV	620 - 0.9 357 (400-0.9/1.5)		620 - 0.9 357 (400-0.9/1.6)	
LNAV/VNAV	513 - 0.8 550 250 (300-0.8/1.3)		521 - 0.8 600 258 (300-0.8/1.3)	545 - 0.8 650 282 (300-0.8/1.4)
LPV	463 - 0.8 550 200 (200-0.8/1.2)		468 - 0.8 550 205 (300-0.8/1.2)	478 - 0.8 550 215 (300-0.8/1.2)
CIRCLING	760 - 2.3 495 (500-2.3)		NOT AUTHORIZED	

RNP RWY 27

51°46.07'N
013°10.06'E

HOLZDORF (ETSH)

RNP RWY 27 FROM SH602:

	CODING	DISPLAY
SH602 (IAF)	51 45 05.30 N 013 35 40.67 E	51 45.088 N 013 35.678 E
SH601 (TF)	51 45 24.41 N 013 27 38.90 E	51 45.407 N 013 27.648 E
SH600 (FAF)	51 45 42.96 N 013 19 37.01 E	51 45.716 N 013 19.617 E
RW27 (MAPT)	51 46 02.02 N 013 11 06.31 E	51 46.034 N 013 11.105 E
SH605 (TF)	51 46 17.70 N 013 03 55.50 E	51 46.295 N 013 03.925 E
SH606 (TF)	51 52 01.94 N 013 05 36.17 E	51 52.032 N 013 05.603 E
SH603 (MAHF)	51 50 23.43 N 013 28 09.30 E	51 50.390 N 013 28.155 E

RNP RWY 27 FROM SH603:

	CODING	DISPLAY
SH603 (IAF)	51 50 23.43 N 013 28 09.30 E	51 50.390 N 013 28.155 E
SH601 (TF)	51 45 24.41 N 013 27 38.90 E	51 45.407 N 013 27.648 E
SH600 (FAF)	51 45 42.96 N 013 19 37.01 E	51 45.716 N 013 19.617 E
RW27 (MAPT)	51 46 02.02 N 013 11 06.31 E	51 46.034 N 013 11.105 E
SH605 (TF)	51 46 17.70 N 013 03 55.50 E	51 46.295 N 013 03.925 E
SH606 (TF)	51 52 01.94 N 013 05 36.17 E	51 52.032 N 013 05.603 E
SH603 (MAHF)	51 50 23.43 N 013 28 09.30 E	51 50.390 N 013 28.155 E

RNP RWY 27 FROM SH604:

	CODING	DISPLAY
SH604 (IAF)	51 40 25.38 N 013 27 08.61 E	51 40.423 N 013 27.143 E
SH601 (TF)	51 45 24.41 N 013 27 38.90 E	51 45.407 N 013 27.648 E
SH600 (FAF)	51 45 42.96 N 013 19 37.01 E	51 45.716 N 013 19.617 E
RW27 (MAPT)	51 46 02.02 N 013 11 06.31 E	51 46.034 N 013 11.105 E
SH605 (TF)	51 46 17.70 N 013 03 55.50 E	51 46.295 N 013 03.925 E
SH606 (TF)	51 52 01.94 N 013 05 36.17 E	51 52.032 N 013 05.603 E
SH603 (MAHF)	51 50 23.43 N 013 28 09.30 E	51 50.390 N 013 28.155 E

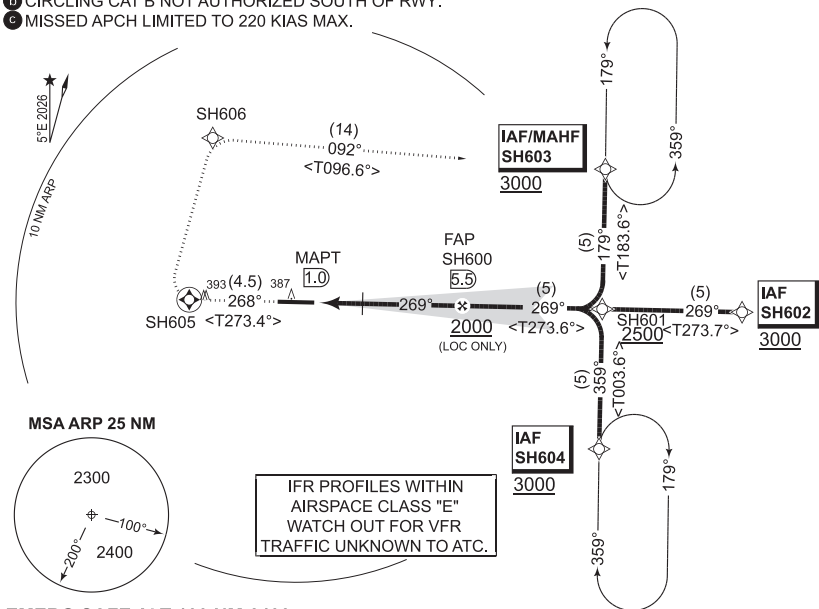
Threshold Coordinates

RWY 27	51 46 02.02 N 013 11 06.31 E	51 46.034 N 013 11.105 E
--------	------------------------------	--------------------------

AD ELEV 265

BREMEN RADAR		HOLZDORF RADAR				HOLZDORF TOWER		
398.575	126.425	254.925	397.500	123.300	129.855	267.400	130.505	122.100
DME / LOCALIZER	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS-LENGTH	LDA	
IHDW 111.700 / CH54X	269°	2000	3.0°	463	263	900 M	7938	

a) GNSS REQUIRED.
b) CIRCLING CAT B NOT AUTHORIZED SOUTH OF RWY.
c) MISSED APCH LIMITED TO 220 KIAS MAX.

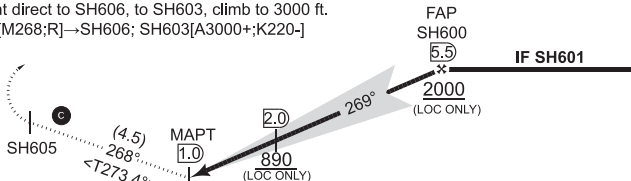


EMERG SAFE ALT 100 NM 6400

Climb on course 268° to SH605,
turn right direct to SH606, to SH603, climb to 3000 ft.
SH605 [M268:R]→SH606: SH603[A3000+:K220-]

IHDW	1	2	3	4	5	5.5
Altitude	580	900	1210	1530	1850	2000

TA 5000



TCH 55

THR ELEV 263		← 5.3 →		CAT I
CATEGORY	A	B	C	D
ILS 27	463 - 0.8 550 200 (200-0.8/1.2)			
LOC 27	620 - 0.9 357 (400-0.9/1.5)		620 - 0.9 357 (400-0.9/1.6)	
CIRCLING	760 - 2.3 495 (500-2.3)		NOT AUTHORIZED	

CHANGE: MSA (040/26)

ILS or LOC RWY 27

51°46.07'N
013°10.06'E

HOLZDORF (ETSH)

ACG 16 APR 2026

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 265

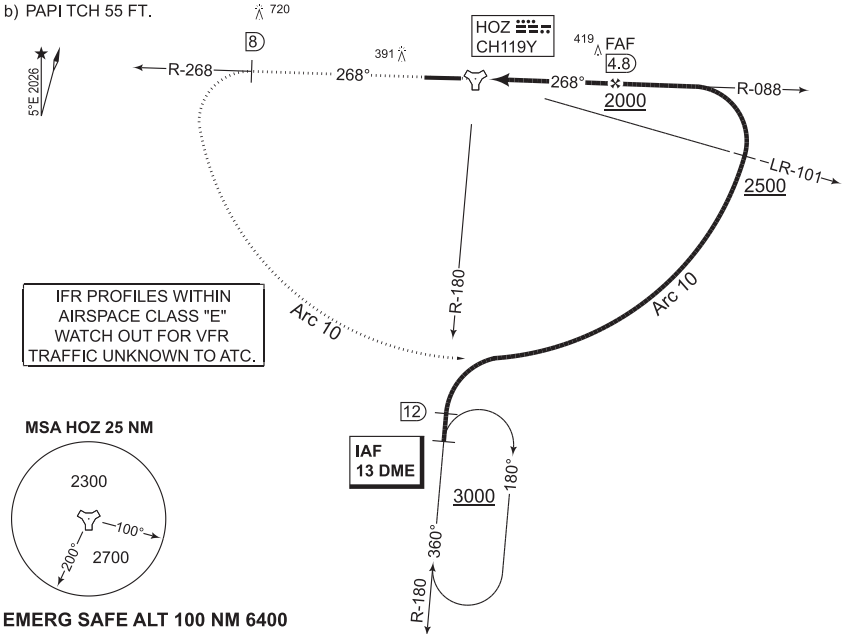
TACAN RWY 27
HOLZDORF (ETSH)

BREMEN RADAR 398.575 126.425		HOLZDORF RADAR 254.925 397.500 123.300 129.855			HOLZDORF TWR 267.400 130.505 122.100		
NAVAID HOZ CH119Y	APP COURSE 268°	FAF ALT 2000	DESCENT GR 5.2%	MDA 650	THR ELEV 263	ALS-LENGTH 900 M	LDA 7938

NOTE:

- a CIRLING CAT B NOT AUTHORIZED
SOUTH OF RWY 09/27.
- b) PAPI TCH 55 FT.

IAF
51°33.08'N
013°10.00'E



EMERG SAFE ALT 100 NM 6400

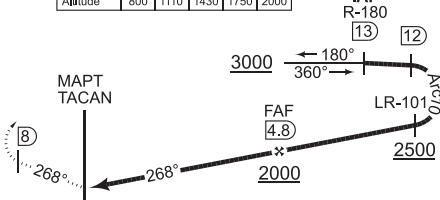
MISSED APPROACH

Climb on course 268° to 3000 ft.
When passing HOZ 8 DME turn
left and join HOZ ARC 10.
Continue for another approach.

Dist HOZ	1	2	3	4	4.8
Altitude	800	1110	1430	1750	2000

IAF
R-180
13

TA 5000



THR ELEV 263		5.3		CAT I	
--------------	--	-----	--	-------	--

CATEGORY		A	B	C	D
MPSS	S-TACAN 27	650 - 1.1 387 (400-1.1/1.5)		650 - 1.1 387 (400-1.1/1.8)	
	CIRCLING	760 - 2.3 495 (500 - 2.3)	760 - 2.3 495 (500 - 2.3)	NOT AUTHORIZED	
	S-PAR 27	465 - 0.8 550 200 (200-0.8/1.2) GS 3.0°			

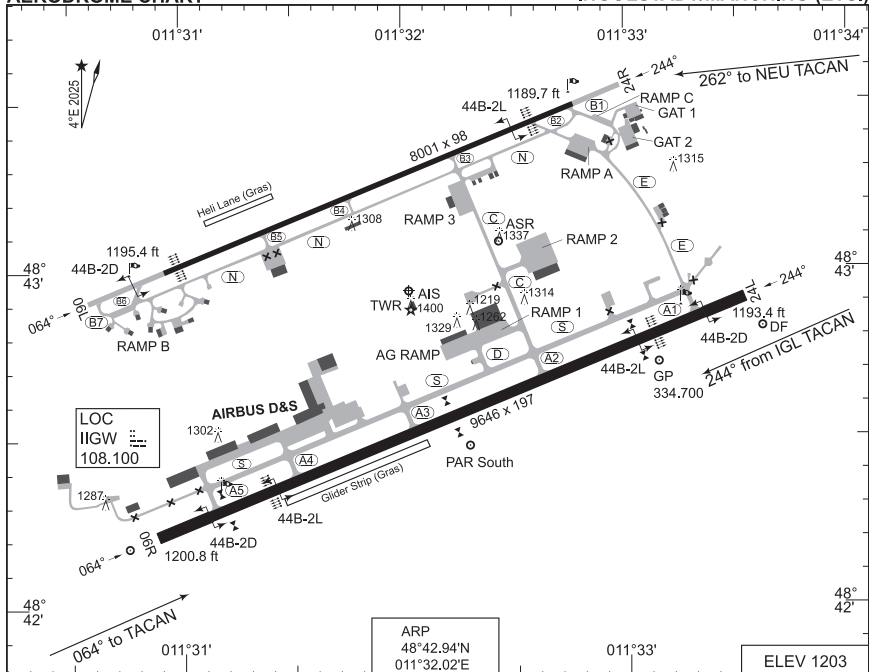
TACAN RWY 27

51°46.07'N
013°10.06'E

HOLZDORF (ETSH)

AERODROME CHART

INGOLSTADT/MANCHING (ETSI)



RWY	LCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN
06L	92	8001	8001	8001	8001	3.0°	1196	48°43.00'N 011°30.92'E
24R	92	8001	8001	8001	8001	3.0°	1190	48°43.49'N 011°32.77'E
06R	92	9646	10444	10709	9646	3.0°	1201	48°42.27'N 011°31.12'E
24L	92	9646	10667	10709	9646	3.0°	1197	48°42.86'N 011°33.35'E

INGO TOWER 376.800 389.600 259.575 139.400x 125.255
 INGO RADAR 282.000 388.850 378.475 139.400x 120.605 125.580 SSR 4260 - 4267
 INGO ATIS 118.865

SRA	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
	TERPS	06R					AB CD E	TERPS	1620 - 0.8 425 (500-0.8/1.6) 1620 - 1.2 425 (500-1.2/2.0) 1620 - 1.6 425 (500-1.6/2.4)
	TERPS	24L					ABC DE	TERPS	1560 - 1.6 363 (400-1.6/1.6) 1560 - 1.6 363 (400-1.6/2.0)
	TERPS	06L					AB C D E	TERPS	1580 - 0.8 383 (400-0.8/1.6) 1580 - 1.2 383 (400-1.2/1.6) 1580 - 1.2 383 (400-1.2/2.0) 1600 - 1.6 403 (500-1.6/2.4)
	TERPS	24R					ABCD E	TERPS	1570 - 1.6 378 (400-1.6) 1580 - 2.4 388 (400-2.4)
PAR	PANS-OPS PANS-OPS	06R 24L					ABCD ABCD	PANS-OPS PANS-OPS	1401 - 0.8/550 200 (200-0.8/1.2) 1394 - 0.8/550 200 (200-0.8/1.2)

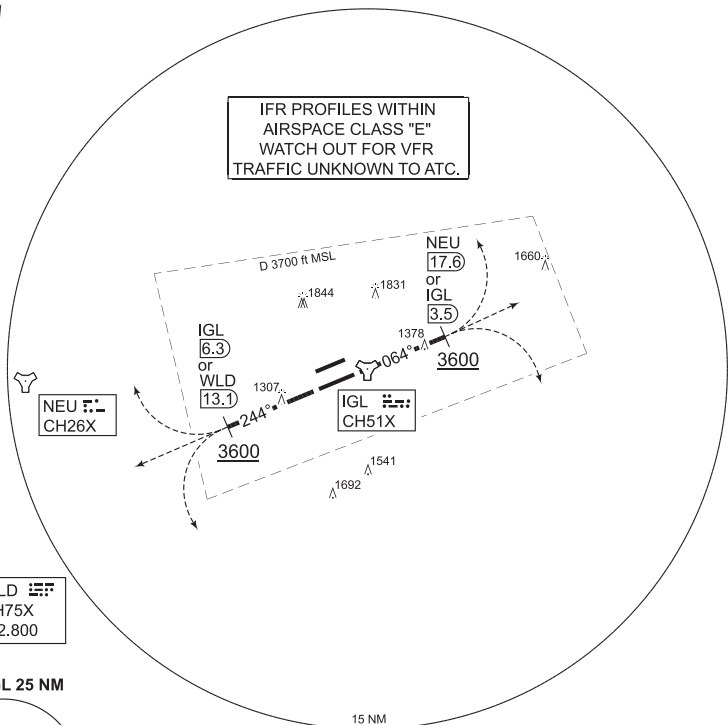
AERODROME CHART

INGOLSTADT/MANCHING (ETSI)

INGO TOWER 376.800 125.255		INGO RADAR 282.000 120.605 125.580				MUENCHEN RADAR 242.200 VHF O/R				
INGO ATIS 118.865		RWY	from - to	60	120	180	240	300	Reason	
		24L	DER - 3600 ft	608	1216	1824	2432	3040	ATC	
		06R	DER - 3600 ft	608	1216	1824	2432	3040	ATC	

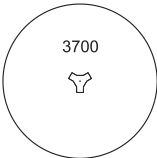
NOTE:

a) SI 124: CHECK FOR CLOSE-IN OBSTACLE (BUILDING 327 M 221° BEYOND DER, 1243 FT MSL).



WLD
CH75X
112.800

MSA IGL 25 NM



EMERG SAFE ALT 100 NM 13500

TA 5000

SI 124 (RWY 24L)	- Climb on track 244° to IGL/6,3 DME or WLD/13,1 DME - Cross IGL/6.3 DME or WLD/13.1 DME at 3600 ft or above - Continue as cleared by ATC
SI 106 (RWY 06R)	- Climb on track 064° to IGL/3.5 DME or NEU/17.6 DME - Cross IGL/3.5 DME or NEU/17.6 DME at 3600 ft or above - Continue as cleared by ATC

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 1203

SI 206 - 224
INGOLSTADT/MANCHING (ETSI)

INGO TOWER		INGO RADAR				MUENCHEN RADAR				
376.800	125.255	282.000	120.605	125.580		242.200	VHF O/R			
INGO ATIS		RWY	from - to	60	120	180	240	300	Reason	
118.865		24R	DER - 3600 ft	608	1216	1824	2432	3040	ATC	
		06L	DER - 3600 ft	608	1216	1824	2432	3040	ATC	

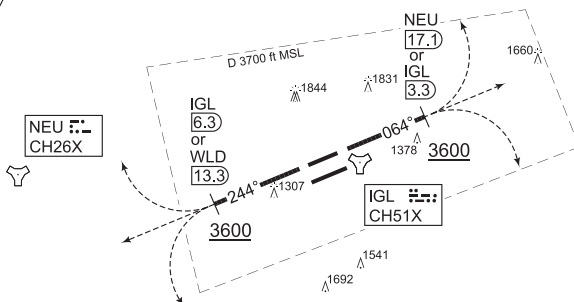
NOTE:

a) SI 206: CHECK FOR CLOSE-IN OBSTACLE (BUILDING 295 M 103° BEYOND DER, 1230 FT MSL AND SEVERAL TREES LEFT SIDE OF TRACK, MAX 1247 FT MSL).

b) SI 224: CHECK FOR CLOSE-IN OBSTACLE (BUILDING 843 M 271° BEYOND DER, 1273 FT MSL).



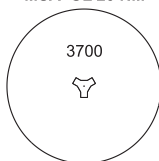
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



WLD CH75X
112.800



MSA IGL 25 NM



EMERG SAFE ALT 100 NM 13500

TA 5000

SI 224
(RWY 24R)

- Climb on track 244° to IGL/6.3 DME or WLD/13.3 DME
- Cross IGL/6.3 DME or WLD/13.3 DME at 3600 ft or above
- Continue as cleared by ATC

SI 206
(RWY 06L)

- Climb on track 064° to IGL/3.3 DME or NEU/17.1 DME
- Cross IGL/3.3 DME or NEU/17.1 DME at 3600 ft or above
- Continue as cleared by ATC

SI 206 - 224

48°42.94'N
011°32.02'E

INGOLSTADT/MANCHING (ETSI)

PANS-OPS
INSTRUMENT APPROACH CHART

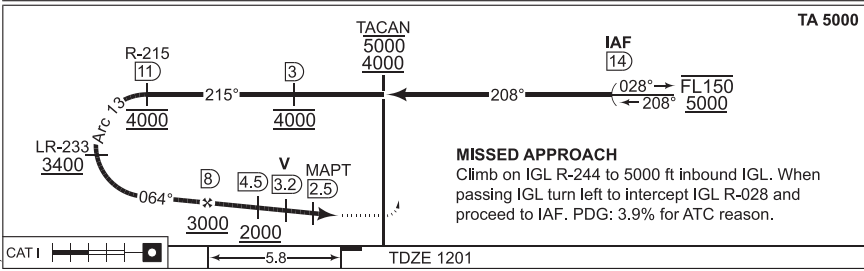
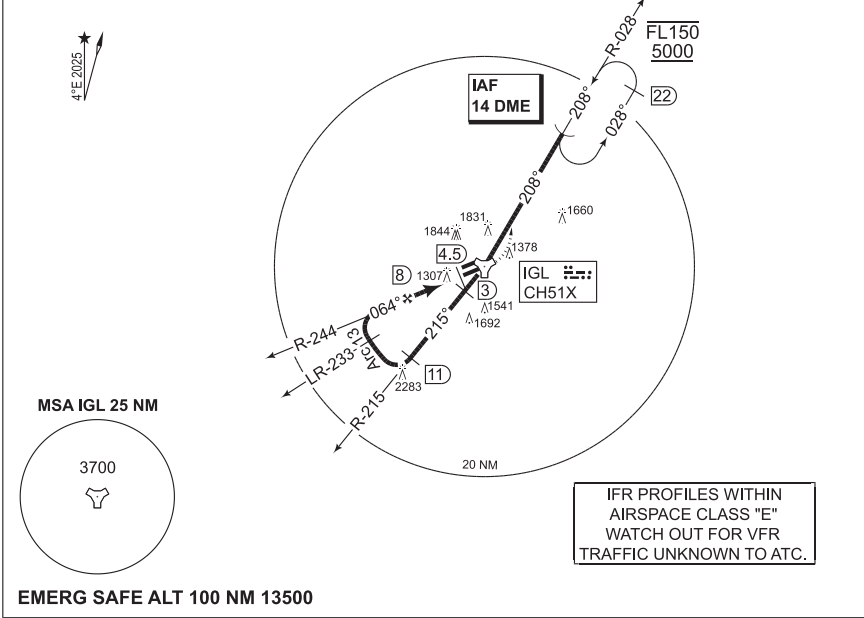
AD ELEV 1203

TACAN RWY 06R
INGOLSTADT/MANCHING (ETSI)

MUENCHEN RADAR 242.200	INGO RADAR 282.000 120.605 125.580			INGO TOWER 376.800 125.255		INGO ATIS 118.865	
TACAN IGL CH51X	APP COURSE 064°	FAF ALT 3000	DESCENT GR 5.2%	MDA See CAT	TDZE 1201	ALS-LENGTH 855 M	LDA 9646

NOTE:
a CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.
b CAT B: CIRCLING SPEED LIMITED TO 130 KIAS MAX.
c TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.

IAF
48°54.94'N
011°45.43'E



CATEGORY	A	B	C	D	E
TACAN 06R	1560 - 0.9 359 (400-0.9/1.5)		1560 - 0.9 359 (400-0.9/1.6)		1570 - 1.0 369 (400-1.0/1.7)
a CIRCLING	1700 - 2.3 497 (500-2.3)	b 1710 - 2.4 507 (600-2.4)	2480 - 5.0 1277 (1300-5.0)	2630 - 5.0 1427 (1500-5.0)	
PAR 06R	1401 - 0.8/550 200 (200-0.8/1.2)				NOT AUTHORIZED

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 1203

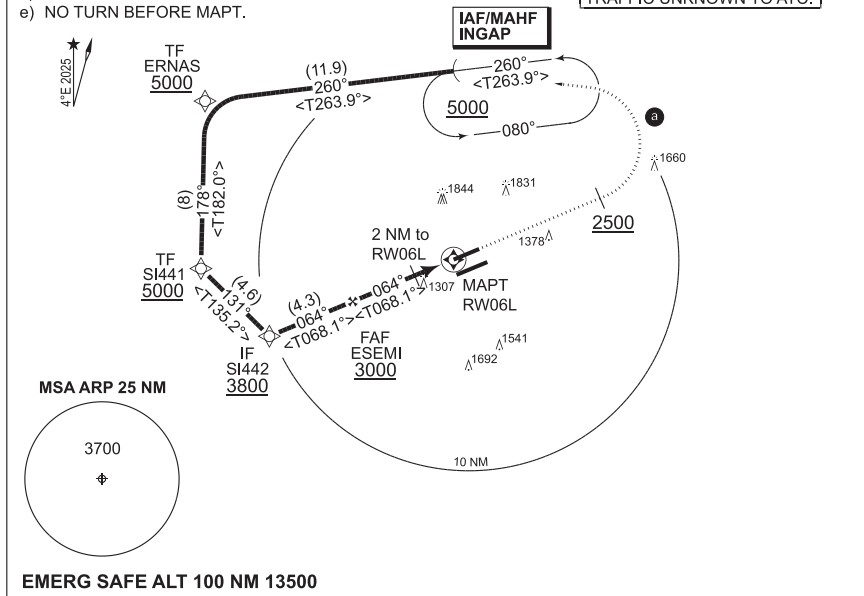
RNAV (GNSS) RWY 06L INGOLSTADT/MANCHING (ETSI)

MUENCHEN RADAR 242.200	INGO RADAR 282.000 120.605 125.580	INGO TOWER 376.800 125.255	INGO ATIS 118.865
APP COURSE 064°	FAF ALT 3000	GS 3.1°	MDA See CAT
		TDZE 1196	ALS-LENGTH 900 M
			LDA 8001

NOTE:

- a MISSED APCH TURN LIMITED TO KIAS 220.
- b CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.
- c CAT B: CIRCLING SPEED LIMITED TO 130 KIAS MAX.
- d GPS QUALIFICATION REQUIRED.
- e NO TURN BEFORE MAPT.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

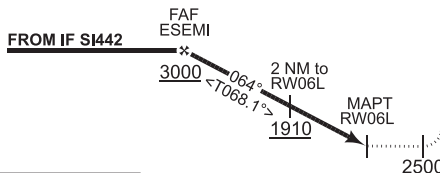


Distance THR	5	4	3	2	1
Altitude	2930	2590	2250	1910	1570

TA 5000

MISSED APPROACH

Climb on track 064°. When passing 2500 ft turn left direct INGAP. Climb to 5000 ft and enter holding.
[M064, A2500+; L] - INGAP [A5000+]



TCH 50

CAT I		5.2	TDZE 1196	
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CATEGORY	A	B	C	D	E
GNSS 06L	1580 - 1.1 384 (400-1.1/1.5)		1590 - 1.1 394 (400-1.1/1.8)	1610 - 1.2 414 (500-1.2/1.9)	NOT AUTHORIZED
b CIRCLING	1700 - 2.3 497 (500-2.3)	c 1710 - 2.4 507 (600-2.4)	2480 - 5.0 1277 (1300-5.0)	2630 - 5.0 1427 (1500-5.0)	

RNAV (GNSS) RWY 06L

48°42.94'N
011°32.02'E

INGOLSTADT/MANCHING (ETSI)

RWY 06L from INGAP APPROACH RNAV (GNSS)

	CODING	DISPLAY
INGAP (IAWP)	48 51 58.00 N 011 31 06.00 E	48 51.967 N 011 31.100 E
ERNAS (TWP)	48 50 40.81 N 011 13 09.67 E	48 50.680 N 011 13.161 E
SI441 (TWP)	48 42 43.00 N 011 12 45.00 E	48 42.717 N 011 12.750 E
SI442 (IWP)	48 39 27.90 N 011 17 37.01 E	48 39.465 N 011 17.617 E
ESEMI (FAWP)	48 41 04.09 N 011 23 38.15 E	48 41.068 N 011 23.636 E
RW06L (MAWP)	48 43 00.00 N 011 30 55.39 E	48 43.000 N 011 30.923 E
INGAP (MAHWP)	48 51 58.00 N 011 31 06.00 E	48 51.967 N 011 31.100 E

Threshold Coordinates

RWY 06L	48 43 00.00 N 011 30 55.39 E	48 43.000 N 011 30.923 E
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PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 1203

RNAV (GNSS) RWY 06R INGOLSTADT/MANCHING (ETSI)

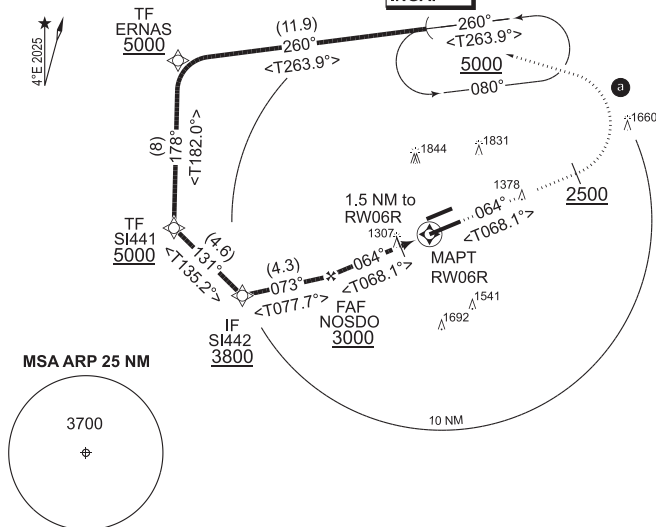
MUENCHEN RADAR 242.200	INGO RADAR 282.000 120.605 125.580	INGO TOWER 376.800 125.255	INGO ATIS 118.865
APP COURSE 064°	FAF ALT 3000	GS 3.2°	MDA See CAT
		TDZE 1201	ALS-LENGTH 855 M
			LDA 9646

NOTE:

- a MISSED APCH TURN LIMITED TO 220 KIAS.
- b CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.
- c CAT B: CIRCLING SPEED LIMITED TO 130 KIAS MAX.
- d GPS QUALIFICATION REQUIRED.
- e) NO TURN BEFORE MAPT.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

IAF/MAHF
INGAP



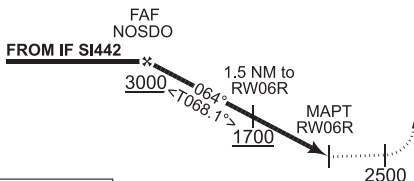
EMERG SAFE ALT 100 NM 13500

Distance THR	5	4	3	2	1
Altitude	2960	2620	2280	1940	1600

TA 5000

MISSED APPROACH

Climb on track 064°. When passing 2500 ft turn left direct INGAP.
[M064, A2500+; L] - INGAP [A5000+]



CAT I

5.1

TDZE 1201

TCH 50

CATEGORY	A	B	C	D	E
GNSS 06R	1560 - 0.9 359 (400-0.9/1.5)		1560 - 0.9 359 (400-0.9/1.6)	1580 - 1.0 379 (400-1.0/1.7)	1620 - 1.2 419 (500-1.2/1.9)
b CIRCLING	1700 - 2.3 497 (500-2.3)	c 1710 - 2.4 507 (600-2.4)	2480 - 5.0 1277 (1300-5.0)	2630 - 5.0 1427 (1500-5.0)	

RNAV (GNSS) RWY 06R

48°42.94'N
011°32.02'E

INGOLSTADT/MANCHING (ETSI)

RWY 06R from INGAP APPROACH RNAV (GNSS)

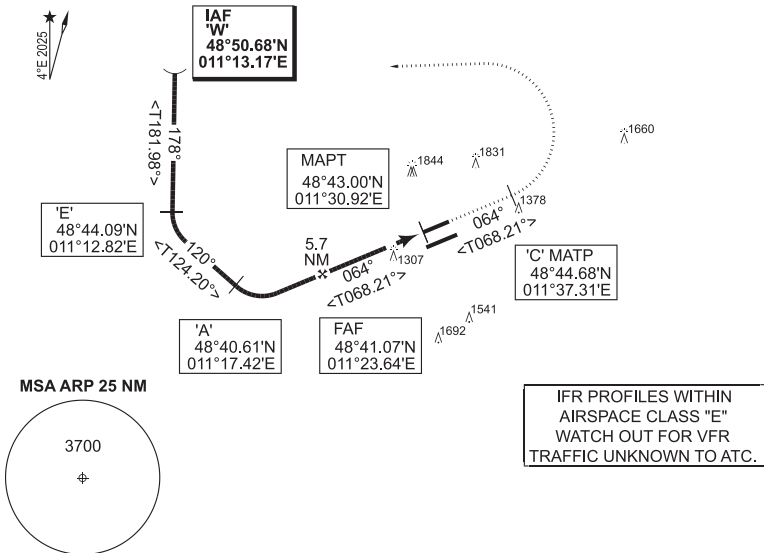
	CODING	DISPLAY
INGAP (IAWP)	48 51 58.00 N 011 31 06.00 E	48 51.967 N 011 31.100 E
ERNAS (TWP)	48 50 40.81 N 011 13 09.67 E	48 50.680 N 011 13.161 E
SI441 (TWP)	48 42 43.00 N 011 12 45.00 E	48 42.717 N 011 12.750 E
SI442 (IWP)	48 39 27.90 N 011 17 37.01 E	48 39.465 N 011 17.617 E
NOSDO (FAWP)	48 40 22.84 N 011 23 58.51 E	48 40.381 N 011 23.975 E
RW06R (MAWP)	48 42 16.48 N 011 31 07.26 E	48 42.275 N 011 31.121 E
INGAP (MAHWP)	48 51 58.00 N 011 31 06.00 E	48 51.967 N 011 31.100 E

Threshold Coordinates

RWY 06R	48 42 16.48 N 011 31 07.26 E	48 42.275 N 011 31.121 E
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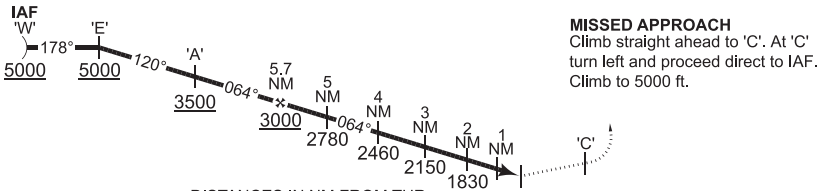
MUENCHEN RADAR 242.200	INGO RADAR 282.000 120.605 125.580		INGO TOWER 376.800 125.255		INGO ATIS 118.865	
APP COURSE 064°	FAF ALT 3000	DESCENT GR 5.2%	MDA See CAT	TDZE 1196	ALS-LENGTH 900 M	LDA 8001

- NOTE:
- a) DISREGARD PAPI.
 - b) CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.
 - c) CIRCLING CAT B SPEED LIMITED TO 130 KIAS MAX.



EMERG SAFE ALT 100 NM 13500

TA 5000



CAT I

DISTANCES IN NM FROM THR

TDZE 1196

CATEGORY	A	B	C	D	E
IAA 06L 3.4%	1650 - 1.4 454 (500-1.4/1.5)		1650 - 1.4 454 (500-1.4/2.1)		
IAA 06L 2.5%	1650 - 1.4 454 (500-1.4/1.5)		1670 - 1.5 474 (500-1.5/2.2)	1690 - 1.5 494 (500-1.5/2.3)	1720 - 1.7/524 (600-1.7/2.4)
b CIRCLING	1700 - 2.3 497 (500-2.3)	c 1710 - 2.4 507 (600-2.4)	2480 - 5.0 1277 (1300-5.0)	2630 - 5.0 1427 (1500-5.0)	

IAA RWY 06L

48°42.94'N
011°32.02'E

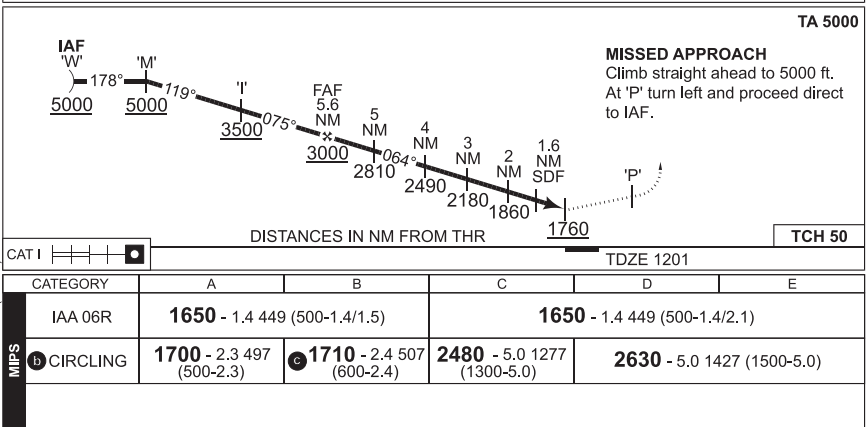
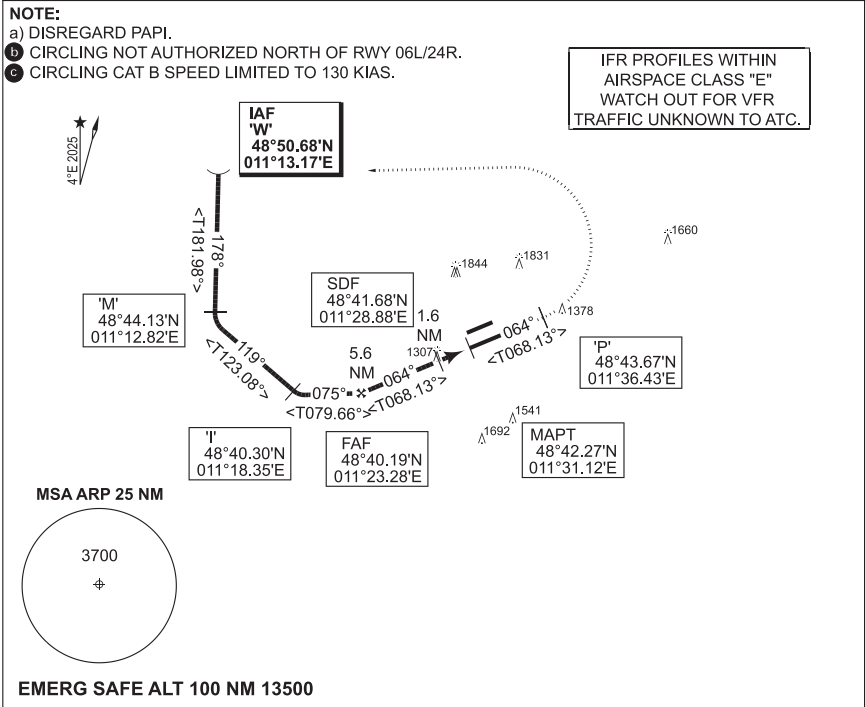
INGOLSTADT/MANCHING (ETSI)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1203

INGOLSTADT/MANCHING (ETSI)

MUENCHEN RADAR 242.200	INGO RADAR 282.000 120.605 125.580			INGO TOWER 376.800 125.255		INGO ATIS 118.865	
APP COURSE 064°	FAF ALT 3000	DESCENT GR 5.2%		MDA 1650	TDZE 1201	ALS-LENGTH 855 M	LDA 9646



PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 1203

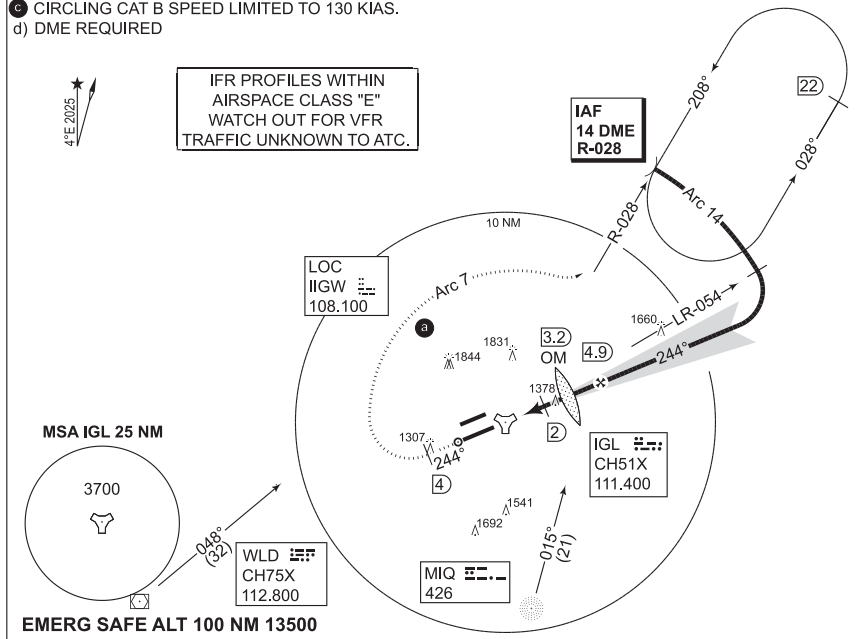
ILS or LOC RWY 24L
INGOLSTADT/MANCHING (ETSI)

MUENCHEN RADAR 242.200	INGO RADAR 282.000 120.605 125.580	INGO TOWER 376.800 125.255	INGO ATIS 118.865
TACAN/LOCALIZER IGL CH51X/IGW 108.100	APP COURSE 244°	GS INTCP ALT 3000	GS 3.0° / 5.2%
		DA See CAT	TDZE 1197
		ALS-LENGTH 900 M	LDA 9646

NOTE:

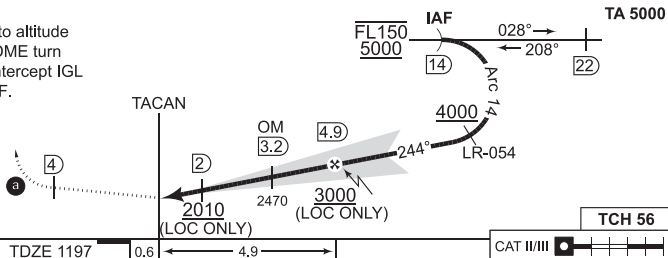
- a MISSED APCH TURN LIMITED TO 230 KIAS MAX.
- b CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.
- c CIRCLING CAT B SPEED LIMITED TO 130 KIAS.
- d DME REQUIRED

IAF
48°54.94'N
011°45.43'E



MISSED APPROACH

Climb on IGL track 244° to altitude 5000 ft. At IGL R-244/4 DME turn right to intercept Arc 7. Intercept IGL R-028 and proceed to IAF.



CHANGE CHART NAME (10/4/26)

CATEGORY		A		B		C		D		E	
MIPS	ILS 24L	1397 - 0.8 550 200 (200-0.8/1.2)								1443 - 0.8 550 246 (300-0.8/1.3)	
	LOC 24L	1550 - 0.9 353 (400-0.9/1.5)				1550 - 0.9 353 (400-0.9/1.6)					
	b CIRCLING	1700 - 2.3 497 (500-2.3)		c 1710 - 2.4 507 (600-2.4)		2480 - 5.0 1277 (1300-5.0)		2630 - 5.0 1427 (1500-5.0)			

ILS or LOC RWY 24L

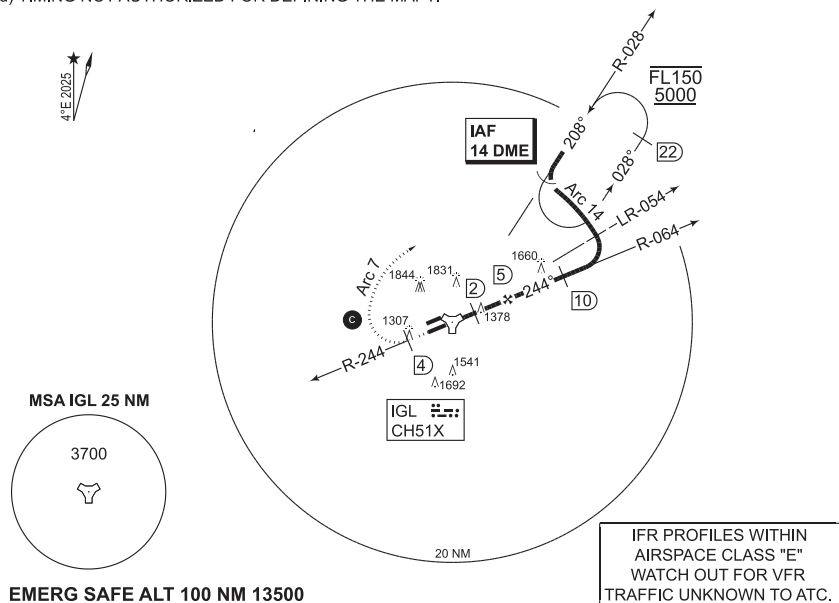
48°42.94'N
011°32.02'E

INGOLSTADT/MANCHING (ETSI)

ACC 11 JUN 2026

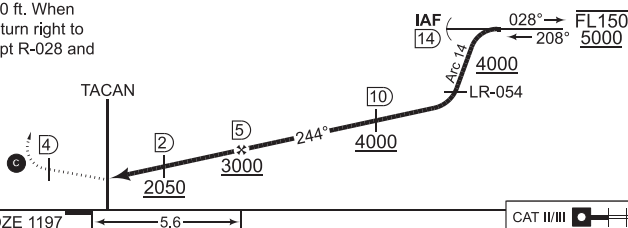
**TACAN RWY 24L
INGOLSTADT/MANCHING (ETSI)**

NOTE:	IAF
a) CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.	48°54.94'N
b) CAT B: CIRCLING SPEED LIMITED TO 130 KIAS MAX.	011°45.43'E
c) MISSED APCH TURN 230 KIAS MAX.	
d) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.	



TA 5000

Climb on R-244 to 5000 ft. When passing R-244/4 DME turn right to intercept Arc 7. Intercept R-028 and proceed to IAF.



CATEGORY		A	B	C	D	E
MIPS	TACAN 24L	1570 - 1.0 373 (400-1.0/1.5)		1570 - 1.0 373 (400-1.0/1.7)		
	a CIRCLING	1700 - 2.3 497 (500-2.3)	b 1710 - 2.4 507 (600-2.4)	2480 - 5.0 1277 (1300-5.0)	2630 - 5.0 1427 (1500-5.0)	
	PAR 24L	1394 - 0.8/550 200 (200-0.8/1.2)				NOT AUTHORIZED

TACAN RWY 24L

48°42.94'N
011°32.02'E

INGOLSTADT/MANCHING (ETSI)

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 1203

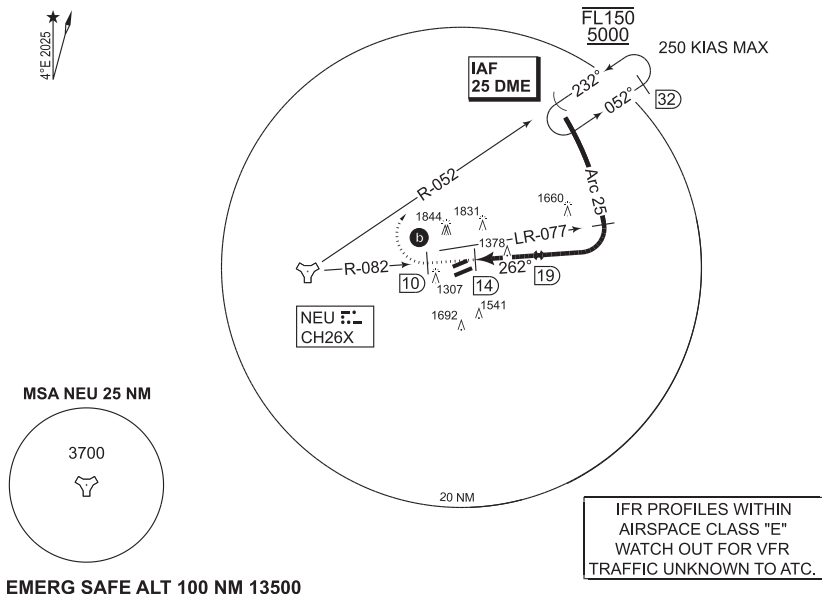
TACAN RWY 24R INGOLSTADT/MANCHING (ETSI)

MUENCHEN RADAR 242.200	INGO RADAR 282.000 120.605 125.580			INGO TOWER 376.800 125.255		INGO ATIS 118.865	
TACAN NEU CH26X	APP COURSE 262°	FAF ALT 3000	DESCENT GR 5.2%	MDA 1960	TDZE 1192	ALS-LENGTH 900 M	LDA 8001

NOTE:

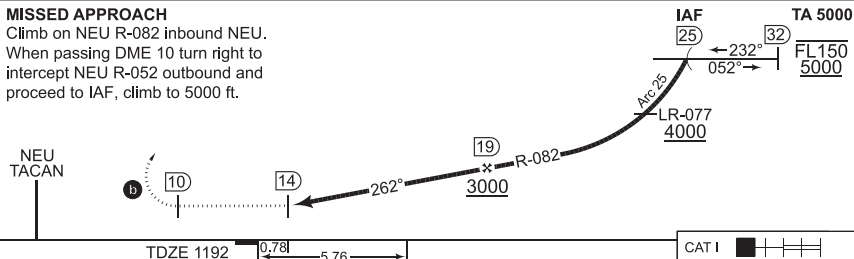
- a) CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.
- b) MISSED APPROACH TURN LIMITED TO 230 KIAS MAX.
- c) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.

IAF
48°56.65'N
011°44.10'E



MISSED APPROACH

Climb on NEU R-082 inbound NEU.
When passing DME 10 turn right to
intercept NEU R-052 outbound and
proceed to IAF, climb to 5000 ft.



CATEGORY	A	B	C	D	E
TACAN 24R	1960 - 2.9 768 (800-2.9/3.6)				
a) CIRCLING	1960 - 3.6 757 (800-3.6)	2480 - 5.0 1277 (1300-5.0)		2630 - 5.0 1427 (1500-5.0)	

TACAN RWY 24R

48°42.94'N
011°32.02'E

INGOLSTADT/MANCHING (ETSI)

PANS-OPS INSTRUMENT APPROACH CHART

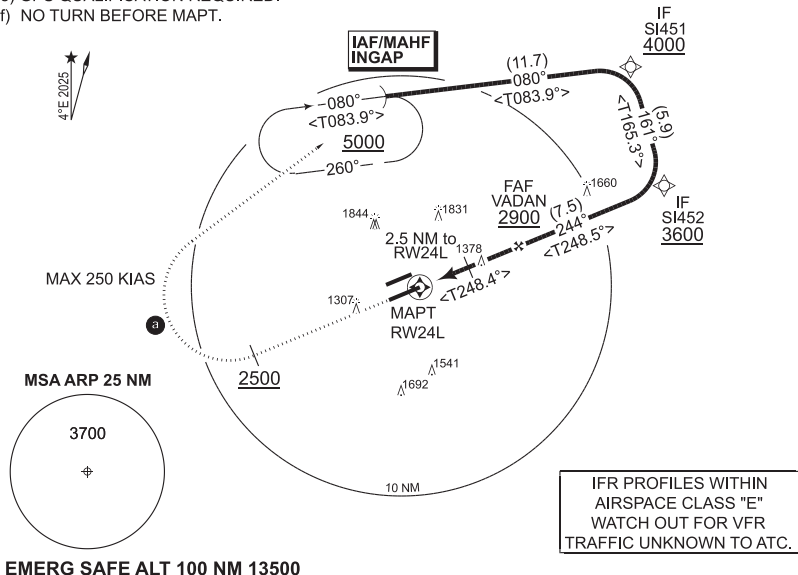
AD ELEV 1203

RNAV (GNSS) RWY 24L INGOLSTADT/MANCHING (ETSI)

MUENCHEN RADAR 242.200	INGO RADAR 282.000 120.605 125.580	INGO TOWER 376.800 125.255	INGO ATIS 118.865
APP COURSE 244°	FAF ALT 2900	GS 3.1°	MDA See CAT
		TDZE 1197	ALS-LENGTH 900 M
			LDA 9646

NOTE:

- a MISSED APCH TURN LIMITED TO 250 KIAS.
- b MISSED APCH: CLIMB WITH MINIMUM 3% (183 FT/NM) FOR ATC REASON.
- c CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.
- d CAT B: CIRCLING SPEED LIMITED TO 130 KIAS MAX.
- e) GPS QUALIFICATION REQUIRED.
- f) NO TURN BEFORE MAPT.

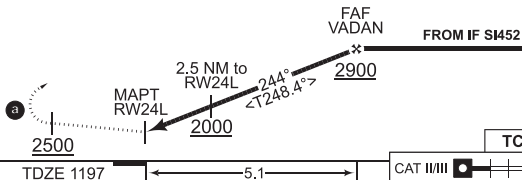


MISSED APPROACH b

Climb on track 244°, when passing 2500 ft turn right direct INGAP. Climb to 5000 ft and enter holding.
[M244, A2500+; R] - INGAP [A5000+]

TA 5000

Distance THR	5	4	3	2	1
Altitude	2870	2540	2210	1880	1550



CATEGORY	A	B	C	D	E
GNSS 24L	1570 - 1.0 373 (400-1.0/1.5)		1570 - 1.0 373 (400-1.0/1.7)		1610 - 1.2 413 (500-1.2/1.9)
c CIRCLING	1700 - 2.3 497 (500-2.3)	d 1710 - 2.4 507 (600-2.4)	2480 - 5.0 1277 (1300-5.0)	2630 - 5.0 1427 (1500-5.0)	

RNAV (GNSS) RWY 24L

48°42.94'N
011°32.02'E

INGOLSTADT/MANCHING (ETSI)

RWY 24L from INGAP APPROACH RNAV (GNSS)

	CODING	DISPLAY
INGAP (IAWP)	48 51 58.00 N 011 31 06.00 E	48 51.967 N 011 31.100 E
SI451 (TWP)	48 53 11.00 N 011 48 47.00 E	48 53.183 N 011 48.783 E
SI452 (IWP)	48 47 30.24 N 011 51 02.81 E	48 47.504 N 011 51.047 E
VADAN (FAWP)	48 44 44.81 N 011 40 30.29 E	48 44.747 N 011 40.505 E
RW24L (MAWP)	48 42 51.76 N 011 33 20.84 E	48 42.863 N 011 33.347 E
INGAP (MAHWP)	48 51 58.00 N 011 31 06.00 E	48 51.967 N 011 31.100 E

Threshold Coordinates

RWY 24L	48 42 51.76 N 011 33 20.84 E	48 42.863 N 011 33.347 E
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PANS-OPS INSTRUMENT APPROACH CHART

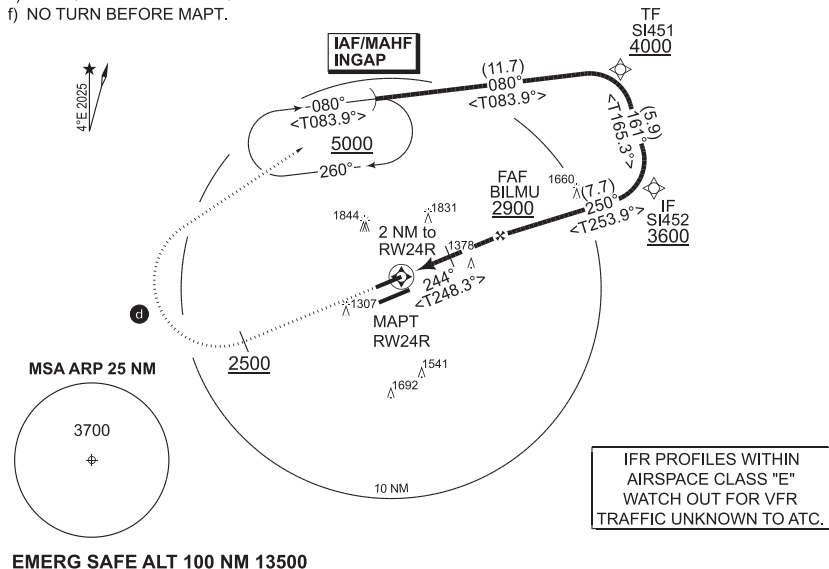
AD ELEV 1203

RNAV (GNSS) RWY 24R INGOLSTADT/MANCHING (ETSI)

MUENCHEN RADAR 242.200	INGO RADAR 282.000 120.605 125.580	INGO TOWER 376.800 125.255	INGO ATIS 118.865
APP COURSE 244°	FAF ALT 2900	GS 3.1°	MDA See CAT
		TDZE 1192	ALS-LENGTH 900 M
			LDA 8001

NOTE:

- a MISSED APCH: CLIMB WITH MINIMUM 3% (183 FT/NM) FOR ATC REASON.
- b CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.
- c CAT B: CIRCLING SPEED LIMITED TO 130 KIAS MAX.
- d MISSED APCH TURN LIMITED TO 250 KIAS.
- e GPS QUALIFICATION REQUIRED.
- f NO TURN BEFORE MAPT.



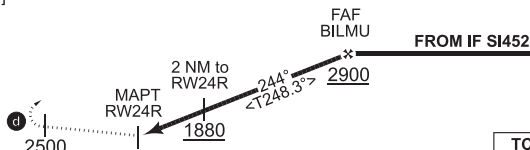
EMERG SAFE ALT 100 NM 13500

MISSED APPROACH a

Climb on track 244°, when passing 2500 ft turn right direct INGAP. Climb to 5000 ft and enter holding.
[M244, A2500+; R] - INGAP [A5000+]

TA 5000

Distance THR	5	4	3	2	1
Altitude	2870	2540	2210	1880	1550



TCH 50

TDZE 1192

5.1

CAT I

CATEGORY	A	B	C	D	E
GNSS 24R	1590 - 1.2 398 (400-1.2/1.5)		1590 - 1.2 398 (400-1.2/1.8)	1610 - 1.2 418 (500-1.2/1.9)	1650 - 1.4 458 (500-1.4/2.1)
b CIRCLING	1700 - 2.3 497 (500-2.3)	c 1710 - 2.4 507 (600-2.4)	2480 - 5.0 1277 (1300-5.0)	2630 - 5.0 1427 (1500-5.0)	

RNAV (GNSS) RWY 24R

48°42.94'N
011°32.02'E

INGOLSTADT/MANCHING (ETSI)

RWY 24R from INGAP APPROACH RNAV (GNSS)

	CODING	DISPLAY
INGAP (IAF)	48 51 58.00 N 011 31 06.00 E	48 51.967 N 011 31.100 E
SI451 (TF)	48 53 11.00 N 011 48 47.00 E	48 53.183 N 011 48.783 E
SI452 (IF)	48 47 30.24 N 011 51 02.81 E	48 47.504 N 011 51.047 E
BILMU (FAF)	48 45 22.42 N 011 39 55.81 E	48 45.374 N 011 39.930 E
RW24R (MAPT)	48 43 29.28 N 011 32 46.20 E	48 43.488 N 011 32.770 E
INGAP (MAHF)	48 51 58.00 N 011 31 06.00 E	48 51.967 N 011 31.100 E

Threshold Coordinates

RWY 24R	48 43 29.28 N 011 32 46.20 E	48 43.488 N 011 32.770 E
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PANS-OPS

INSTRUMENT APPROACH CHART

AD ELEV 1203

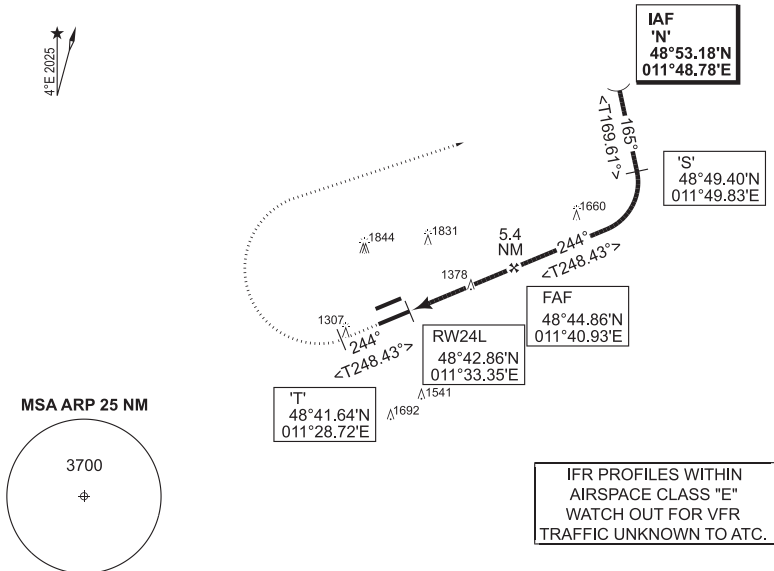
INGOLSTADT/MANCHING (ETSI)

IAA RWY 24L

MUENCHEN RADAR 242.200	INGO RADAR 282.000 120.605 125.580			INGO TOWER 376.800 125.255		INGO ATIS 118.865	
APP COURSE 244°	FAF ALT 2900	DESCENT GR 5.2%	MDA 1650	TDZE 1197	ALS-LENGTH 900 M	LDA 9646	

NOTE:

- a) CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.
- b) CIRCLING CAT B SPEED LIMITED TO 130 KIAS MAX.
- c) DISREGARD PAPI.

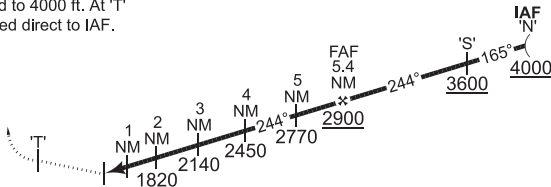


EMERG SAFE ALT 100 NM 13500

MISSED APPROACH

Climb straight ahead to 4000 ft. At 'T' turn right and proceed direct to IAF.

TA 5000



DISTANCES IN NM FROM THR

TCH 50

TDZE 1197

CAT III/II

CATEGORY	A	B	C	D	E
ARA/IAA 24L	1650 - 1.4 453 (500-1.4/1.5)		1650 - 1.4 453 (500-1.4/2.1)		
b) CIRCLING	1700 - 2.3 497 (500-2.3)	c) 1710 - 2.4 507 (600-2.4)	2480 - 5.0 1277 (1300-5.0)	2630 - 5.0 1427 (1500-5.0)	

IAA RWY 24L

48°42.94'N
011°32.02'E

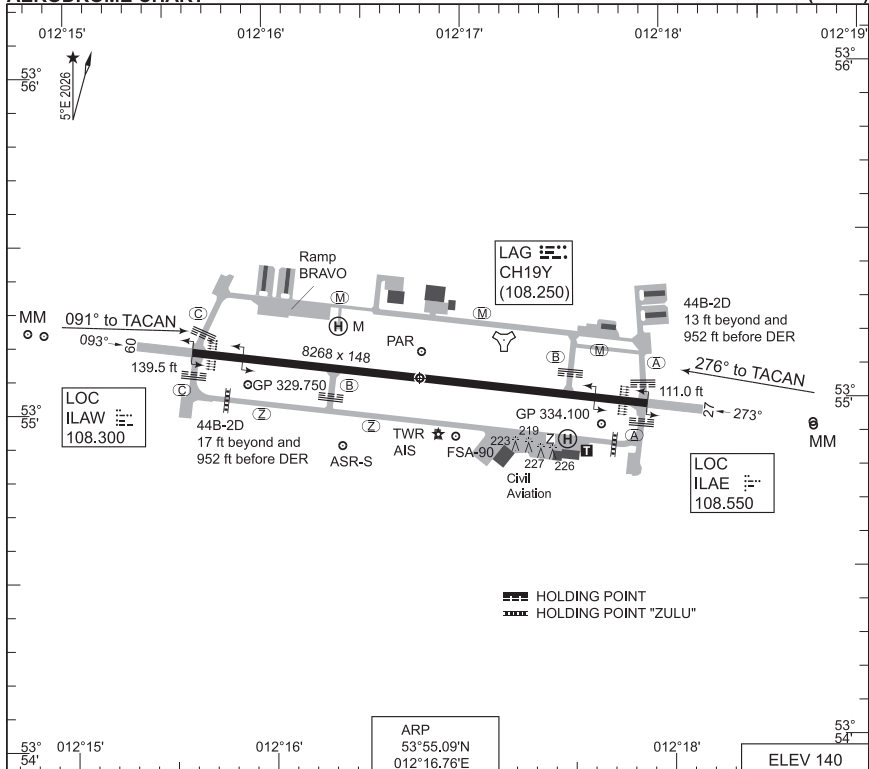
INGOLSTADT/MANCHING (ETSI)

IAA RWY 24R

ACC 19 FEB 2026

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
LAAGE ATIS	134.605	SSR 4210 - 4217

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	09	3.0°	23		459	ABCDE	TERPS	340 - 0.8/550 200 (200-0.8/1.2)
	PANS-OPS	27	3.0°	27		460	ABCDE	TERPS	319 - 0.8/550 208 (300-0.8/1.2)

AERODROME CHART

LAAGE (ETNL)

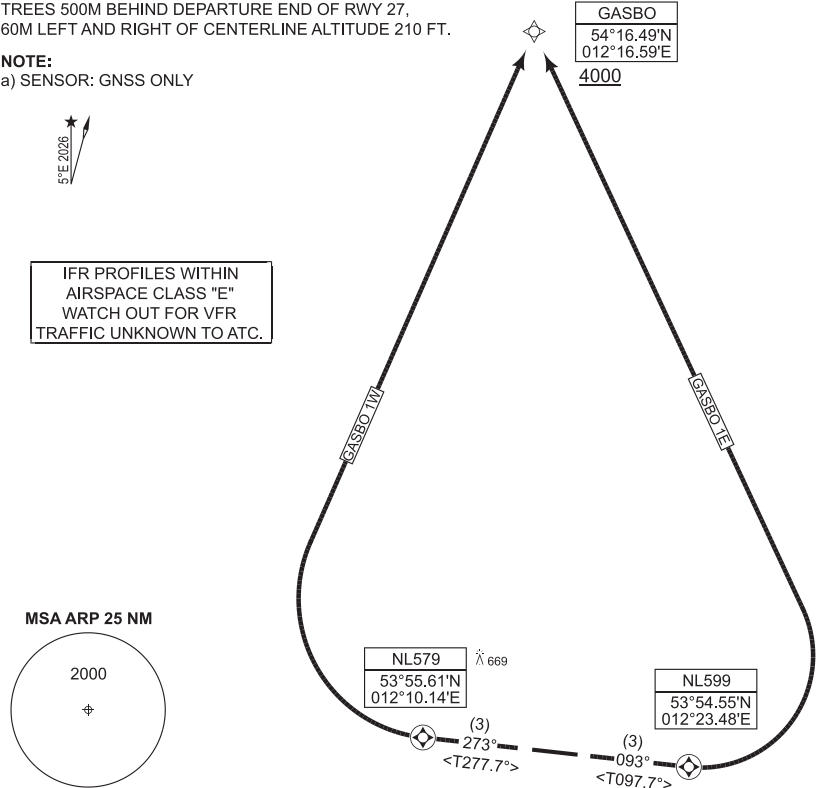
LAAGE TOWER	LAAGE RADAR	BREMEN RADAR	LAAGE ATIS
336.400 118.430 122.100	376.400 133.105	259.825 124.175	134.605

CAUTION:
CLOSE IN OBSTACLES
TREES 500M BEHIND DEPARTURE END OF RWY 27,
60M LEFT AND RIGHT OF CENTERLINE ALTITUDE 210 FT.

NOTE:
a) SENSOR: GNSS ONLY



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 2500

TA 5000

GASBO 1E (RWY 09)	- Climb on track 093° to <u>NL599</u> - Turn left direct to GASBO - Climb to 4000 ft - Pass GASBO at altitude 4000 ft or above - Continue as cleared by ATC - <u>NL599</u> [M093:L] → GASBO [A4000+]
GASBO 1W (RWY 27)	- Climb on track 273° to <u>NL579</u> - Turn right direct to GASBO - Climb to 4000 ft - Pass GASBO at altitude 4000 ft or above - Continue as cleared by ATC - <u>NL579</u> [M273:R] → GASBO [A4000+]

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 140

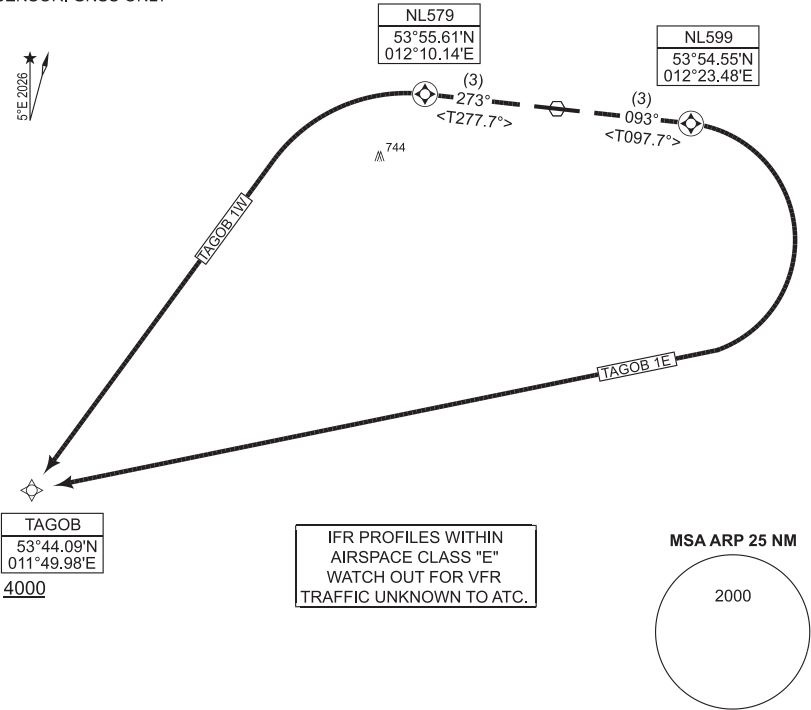
TAGOB 1E - 1W
LAAGE (ETNL)

LAAGE TOWER			LAAGE RADAR		BREMEN RADAR		LAAGE ATIS	
336.400	118.430	122.100	376.400	133.105	259.825	124.175	134.605	
RWY		from - to		60	120	180	240	300
27		DER - 4000 ft		220	430	640	850	1070
								1280
								Obstacle

CAUTION:
CLOSE IN OBSTACLES

TREES 500M BEHIND DEPARTURE END OF RWY 27,
60M LEFT AND RIGHT OF CENTERLINE ALTITUDE 210 FT.

NOTE:
a) SENSOR: GNSS ONLY



TAG 5000

EMERG SAFE ALT 100 NM 2500

TAGOB 1E (RWY 09)	- Climb on track 093° to <u>NL599</u> - Turn right direct to TAGOB - Climb to 4000 ft - Pass TAGOB at altitude 4000 ft or above - Continue as cleared by ATC <u>NL599</u> [M093:R] → TAGOB [A4000+]
TAGOB 1W (RWY 27)	- Climb on track 273° to <u>NL579</u> - Turn left direct to TAGOB - Climb to 4000 ft - Pass TAGOB at altitude 4000 ft or above - Continue as cleared by ATC <u>NL579</u> [M273:L] → TAGOB [A4000+]

TAGOB 1E - 1W

53°55.09'N
012°16.76'E

LAAGE (ETNL)

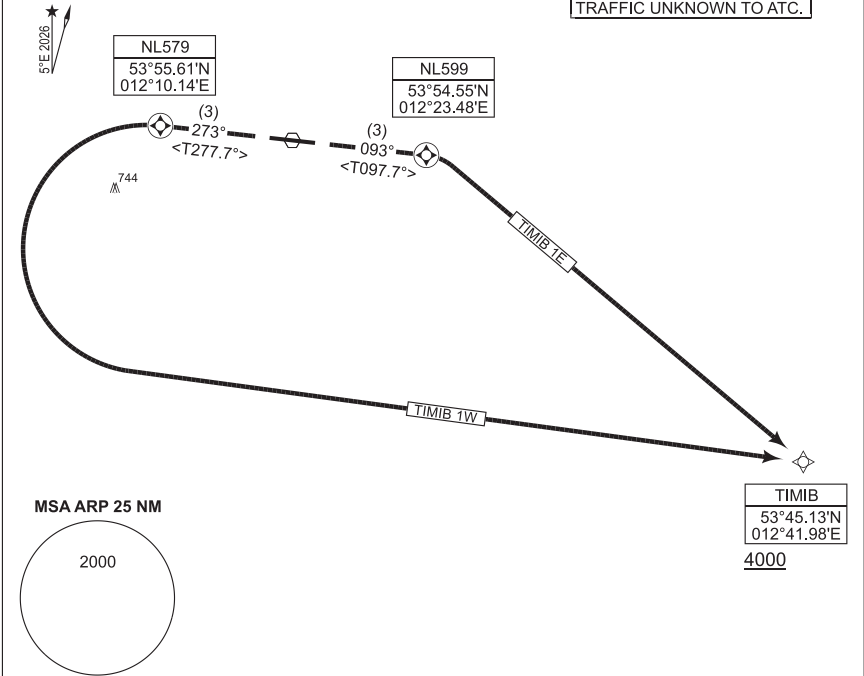
CHANGE: VAR (042/26)

ACC 16 APR 2026

LAAGE TOWER			LAAGE RADAR		BREMEN RADAR			LAAGE ATIS			
336.400	118.430	122.100	376.400	133.105	259.825	124.175		134.605			
CAUTION: CLOSE IN OBSTACLES			RWY	from - to	60	120	180	240	300	360	Reason
			27	DER - 4000 ft	220	430	640	850	1070	1280	Obstacle

NOTE:
a) SENSOR: GNSS ONLY

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 2500 TA 5000

TIMIB 1E (RWY 09)	- Climb on track 093° to <u>NL599</u> - Turn right direct to TIMIB - Climb to 4000 ft - Pass TIMIB at altitude 4000 ft or above - Continue as cleared by ATC <u>NL599</u> [M093:R] → TIMIB [A4000+]
TIMIB 1W (RWY 27)	- Climb on track 273° to <u>NL579</u> - Turn left direct to TIMIB - Climb to 4000 ft - Pass TIMIB at altitude 4000 ft or above - Continue as cleared by ATC <u>NL579</u> [M273:L] → TIMIB [A4000+]

GASBO 1E RNAV DEPARTURE

	CODING	DISPLAY
NL599	53 54 32.82 N 012 23 28.81 E	53 54.547 N 012 23.480 E
GASBO	54 16 29.32 N 012 16 35.53 E	54 16.489 N 012 16.592 E

GASBO 1W RNAV DEPARTURE

	CODING	DISPLAY
NL579	53 55 36.74 N 012 10 08.15 E	53 55.612 N 012 10.136 E
GASBO	54 16 29.32 N 012 16 35.53 E	54 16.489 N 012 16.592 E

TAGOB 1E RNAV DEPARTURE

	CODING	DISPLAY
NL599	53 54 32.82 N 012 23 28.81 E	53 54.547 N 012 23.480 E
TAGOB	53 44 05.18 N 011 49 59.00 E	53 44.086 N 011 49.983 E

TAGOB 1W RNAV DEPARTURE

	CODING	DISPLAY
NL579	53 55 36.74 N 012 10 08.15 E	53 55.612 N 012 10.136 E
TAGOB	53 44 05.18 N 011 49 59.00 E	53 44.086 N 011 49.983 E

TIMIB 1E RNAV DEPARTURE

	CODING	DISPLAY
NL599	53 54 32.82 N 012 23 28.81 E	53 54.547 N 012 23.480 E
TIMIB	53 45 07.70 N 012 41 58.56 E	53 45.128 N 012 41.976 E

TIMIB 1W RNAV DEPARTURE

	CODING	DISPLAY
NL579	53 55 36.74 N 012 10 08.15 E	53 55.612 N 012 10.136 E
TIMIB	53 45 07.70 N 012 41 58.56 E	53 45.128 N 012 41.976 E

AD ELEV 140

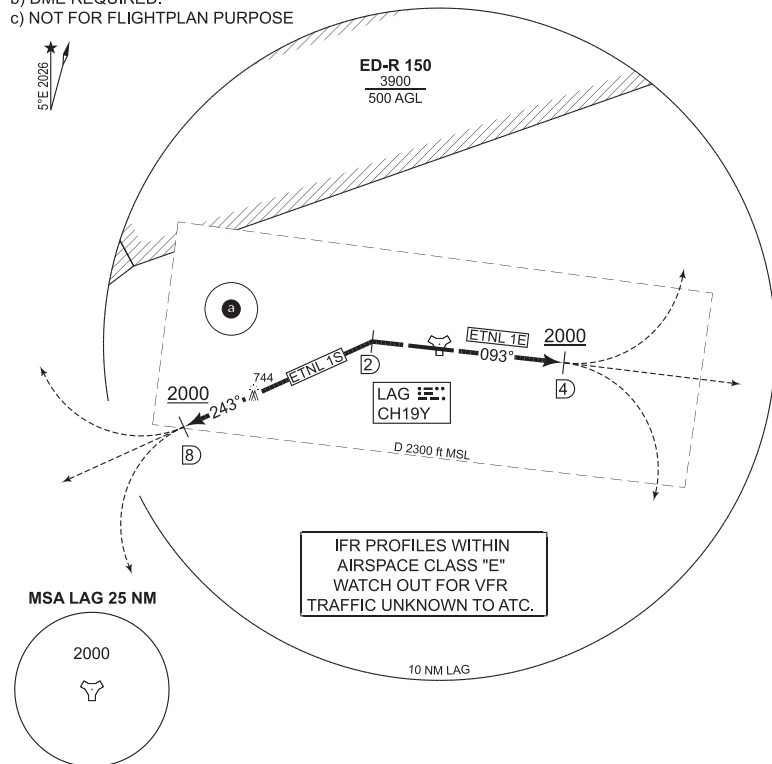
LAAGE TOWER		LAAGE RADAR		BREMEN RADAR				LAAGE ATIS			
336.400	118.430	376.400	133.105	259.825	124.175			134.605			
		RWY	from - to	60	120	180	240	300	360	Reason	
		09	DER - 2000	582	1164	1746	2328	2910	3492	ATC	
CAUTION:		27	DER - 2000	469	938	1407	1876	2345	2814	ATC	

RWY 27: TREES 450M WEST OF DER 211 FT.

a NOISE ABATEMENT AREA AROUND CITY OF SCHWAAN.

b) DME REQUIRED.

c) NOT FOR FLIGHTPLAN PURPOSE



EMERG SAFE ALT 100 NM 2500

TA 5000

ETNL 1E (RWY 09)	- Climb straight ahead - Pass LAG/4 DME at 2000 ft or above - Continue as cleared by ATC - INITIAL CLIMB: 4000 ft
ETNL 1S (RWY 27)	- Climb straight ahead - When passing LAG/2 DME turn left and proceed on track 243° - At LAG/8 DME continue as cleared by ATC - INITIAL CLIMB: 4000 ft

ETNL 1E - 1S

53°55.09'N
012°16.76'E

LAAGE (ETNL)

CHANGE: REVISED CHART (150/26)

ACC 06 AUG 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 140

ETNL 1N
LAAGE (ETNL)

LAAGE TOWER		LAAGE RADAR		BREMEN RADAR		LAAGE ATIS	
336.400	118.430	376.400	133.105	259.825	124.175	134.605	

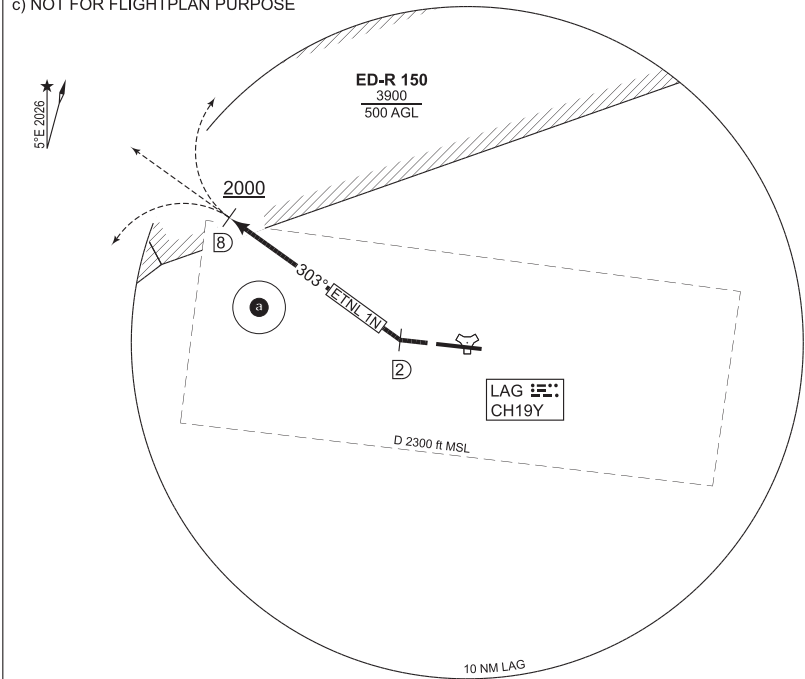
RWY	from-to	60	120	180	240	300	360	Reason
27	DER - 2000	469	938	1407	1876	2345	2814	ATC

CAUTION:
CLOSE IN OBSTACLES

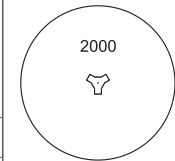
RWY 27: TREES 450M WEST OF DER 211 FT.

NOTE:

- a) NOISE ABATEMENT AREA AROUND CITY OF SCHWAAN.
- b) DME REQUIRED.
- c) NOT FOR FLIGHTPLAN PURPOSE



MSA LAG 25 NM



EMERG SAFE ALT 100 NM 2500

TA 5000

ETNL 1N (RWY 27)	- Climb straight ahead - When passing LAG/2 DME turn right and proceed on track 303° - At LAG/8 DME, continue as cleared by ATC - INITIAL CLIMB: 4000 ft
---------------------	--

ETNL 1N

53°55.09'N
012°16.76'E

LAAGE (ETNL)

CHANGE: REVISED CHART (150/26)

ACC 06 AUG 2026

PANS-OPS
INSTRUMENT APPROACH CHART

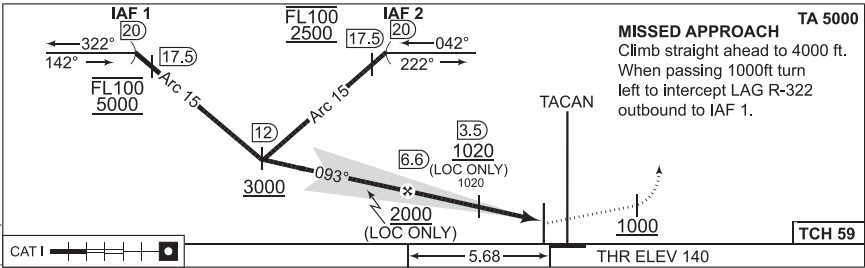
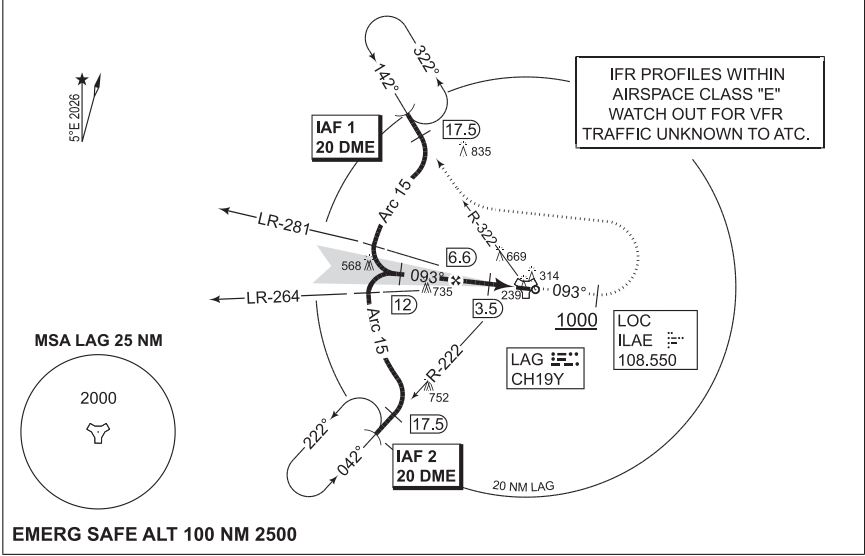
ILS or LOC Y RWY 09
LAAGE (ETNL)

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 340	THR ELEV 140	ALS-LENGTH 900 m
			LDA 8268

NOTE:
a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
b) FOR MILITARY USE ONLY.
c) TACAN REQUIRED.
e) PAPI AND ILS GLIDEPATH DO NOT COINCIDE.
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



CATEGORY	A	B	C	D	E
ILS Y 09	340 - 0.8/550 200 (200-0.8/1.2)				NOT AUTHORIZED
LOC Y 09	490 - 0.9 350 (400-0.9/1.5)		490 - 0.9 350 (400-0.9/1.6)		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: REVISED CHART (150/26)

ACC 06 AUG 2026

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 140

ILS or LOC Z RWY 09
LAAGE (ETNL)

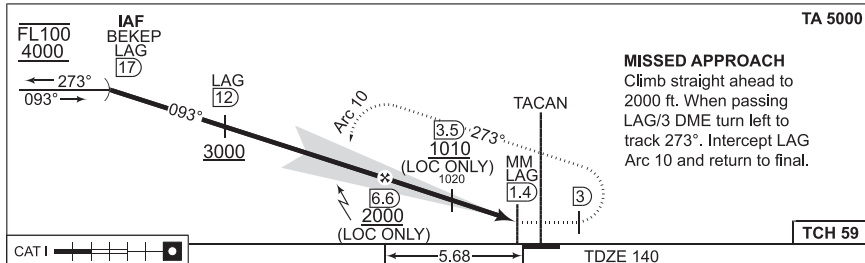
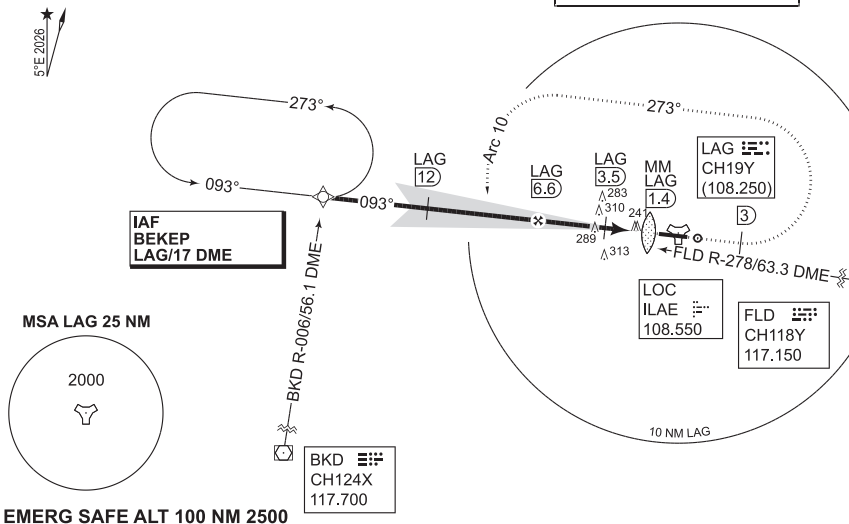
BREMEN RADAR 259.825 124.175	LAAGE RADAR 376.400 133.105	LAAGE TOWER 336.400 118.430	LAAGE ATIS 134.605
TACAN/LOCALIZER LAG CH19Y/ILAE 108.550	APP COURSE 093°	GS INTCP ALT 2000	GS 3.0°
		DA See CAT	TDZE 140
			ALS-LENGTH 900 M
			LDA 8268

NOTE:

- PAPI AND ILS GLIDEPATH DO NOT COINCIDE.
- DME REQUIRED.
- RNAV REQUIRED FOR HOLDING, IN CASE OF LOST COM FOR NON-RNAV EQUIPPED ACFT DISREGARD ETA AND START APPROACH WITHOUT DELAY.
- CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- 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.



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
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 09

53°55.09'N
012°16.76'E

LAAGE (ETNL)

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 140

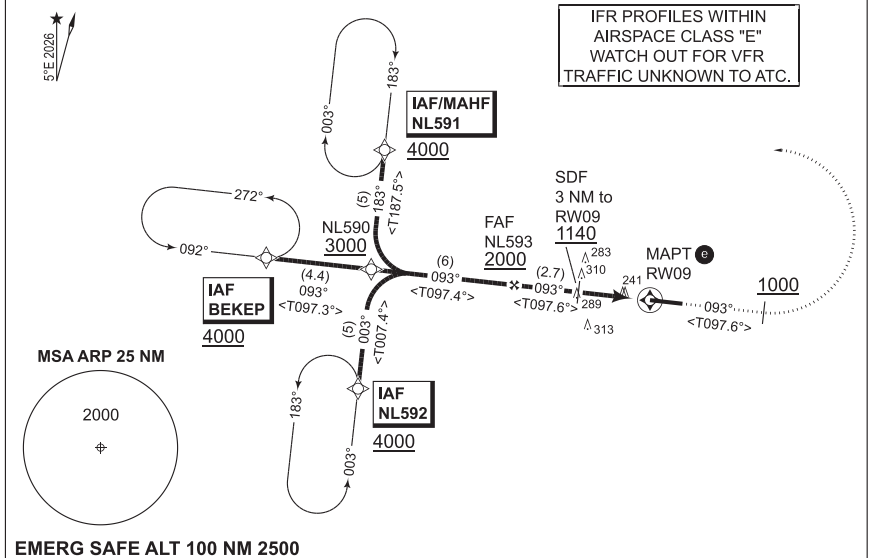
RNP RWY 09
LAAGE (ETNL)

BREMEN RADAR 259.825 124.175		LAAGE RADAR 376.400 133.105		LAAGE TOWER 336.400 118.430		LAAGE ATIS 134.605	
APP COURSE 093°	FAF ALT 2000	DESCENT GR 3.0° / 5.2%		DA/MDA see CAT	THR ELEV 140	ALS-LENGTH 900 M	LDA 8268

NOTE:

- NAVIGATION SENSOR: GNSS ONLY.
- NAVIGATION SPECIFICATION: RNAV 1 UNTIL NL590, RNP APCH THEREAFTER.
- BARO-VNAV NOT AUTHORIZED BELOW -30°C.
- CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- NO TURN BEFORE MAPT.

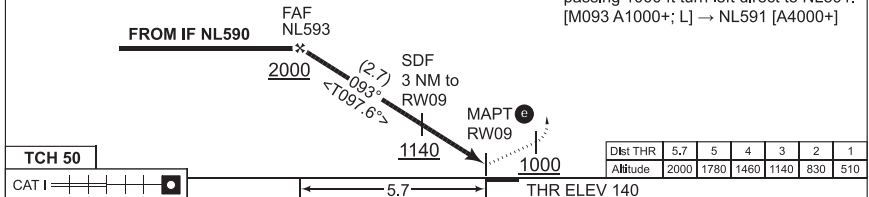
EGNOS CHANNEL
92735 E09A



TA 5000

MISSED APPROACH

Climb on course 093° to 4000 ft. When passing 1000 ft turn left direct to NL591. [M093 A1000+; L] → NL591 [A4000+]



IMPS	CATEGORY	A	B	C	D
	LNAV	510 - 0.9 370 (400-0.9/1.5)		510 - 0.9 370 (400-0.9/1.6)	
	● LNAV/VNAV	390 - 0.8 550 250 (300-0.8/1.3)	398 - 0.8 600 258 (300-0.8/1.3)	407 - 0.8 600 267 (300-0.8/1.3)	427 - 0.8 650 287 (300-0.8/1.4)
	LPV	340 - 0.8 550 200 (200-0.8/1.2)			348 - 0.8 550 208 (200-0.8/1.2)
	● CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)	

RNP RWY 09

53°55.09'N
012°16.76'E

LAAGE (ETNL)

RNP RWY 09 FROM BEKEP:

	CODING	DISPLAY
BEKEP (IAF)	53 57 16.24 N 011 48 38.28 E	53 57.271 N 011 48.638 E
NL590 (IF)	53 56 42.55 N 011 56 01.17 E	53 56.709 N 011 56.019 E
NL593 (FAF)	53 55 55.73 N 012 06 05.11 E	53 55.929 N 012 06.085 E
RW09 (MAPT)	53 55 10.56 N 012 15 37.02 E	53 55.176 N 012 15.617 E
NL591 (MAHF)	54 01 39.49 N 011 57 07.87 E	54 01.658 N 011 57.131 E

RNP RWY 09 FROM NL591:

	CODING	DISPLAY
NL591 (IAF)	54 01 39.49 N 011 57 07.87 E	54 01.658 N 011 57.131 E
NL590 (IF)	53 56 42.55 N 011 56 01.17 E	53 56.709 N 011 56.019 E
NL593 (FAF)	53 55 55.73 N 012 06 05.11 E	53 55.929 N 012 06.085 E
RW09 (MAPT)	53 55 10.56 N 012 15 37.02 E	53 55.176 N 012 15.617 E
NL591 (MAHF)	54 01 39.49 N 011 57 07.87 E	54 01.658 N 011 57.131 E

RNP RWY 09 FROM NL592:

	CODING	DISPLAY
NL592 (IAF)	53 51 45.57 N 011 54 55.76 E	53 51.759 N 011 54.929 E
NL590 (IF)	53 56 42.55 N 011 56 01.17 E	53 56.709 N 011 56.019 E
NL593 (FAF)	53 55 55.73 N 012 06 05.11 E	53 55.929 N 012 06.085 E
RW09 (MAPT)	53 55 10.56 N 012 15 37.02 E	53 55.176 N 012 15.617 E
NL591 (MAHF)	54 01 39.49 N 011 57 07.87 E	54 01.658 N 011 57.131 E

Threshold Coordinates

RWY 09	53 55 10.56 N 012 15 37.02 E	53 55.176 N 012 15.617 E
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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 490	THR ELEV 140	ALS-LENGTH 900 m	LDA 8268

NOTE:

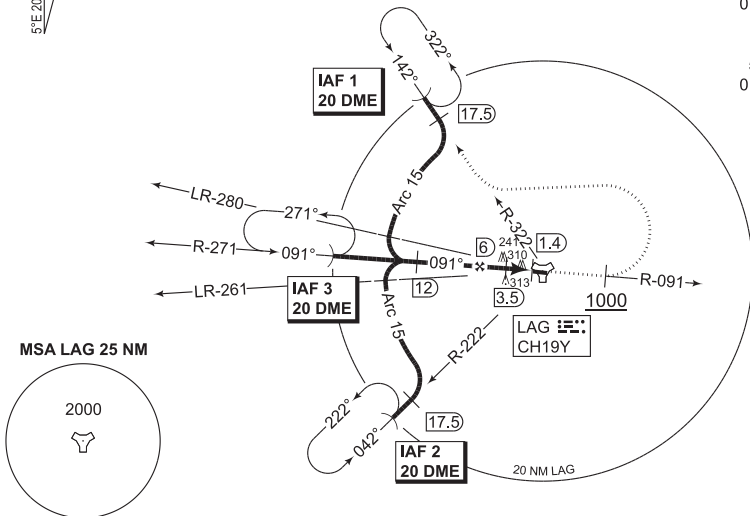
- a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- c) HPMa

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

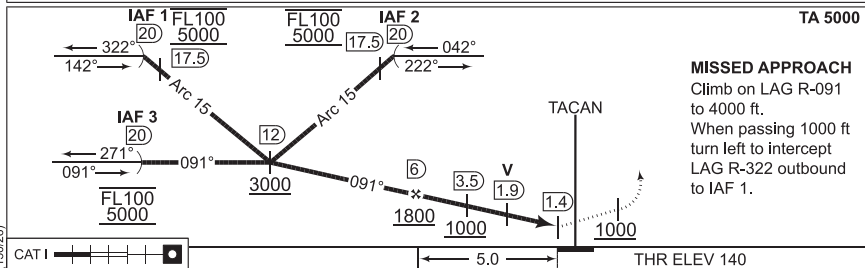
IAF 1
54°11.91'N
011°58.64'E

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 2500



MISSED APPROACH
Climb on LAG R-091
to 4000 ft.
When passing 1000 ft
turn left to intercept
LAG R-322 outbound
to IAF 1.

CHANGE: REVISED CHART (150/26)

CATEGORY		A	B	C	D	E
MIPS	TACAN 09	490 - 0.9 350 (400-0.9/1.5)		490 - 0.9 350 (400 - 0.9/1.6)		NOT AUTHORIZED
	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 - 0.8/550 200 (200-0.8/1.2)				

TACAN RWY 09

53°55.09'N
012°16.76'E

LAAGE (ETNL)

ACC 06 AUG 2026

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 140

ILS or LOC Y 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 INTCPT ALT 2000	GS 3.0° / 5.2%
		DA 335	THR ELEV 111
		ALS-LENGTH 900 m	LDA 8268

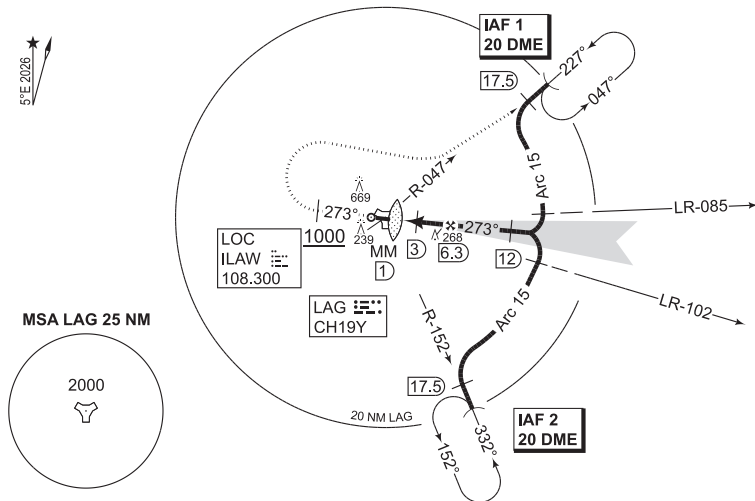
NOTE:

- TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- NON STANDARD PROCEDURE
- FOR MILITARY USE ONLY.
- PAPI AND ILS GLIDEPATH DO NOT COINCIDE.
- TACAN REQUIRED.
- CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- HPMA

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

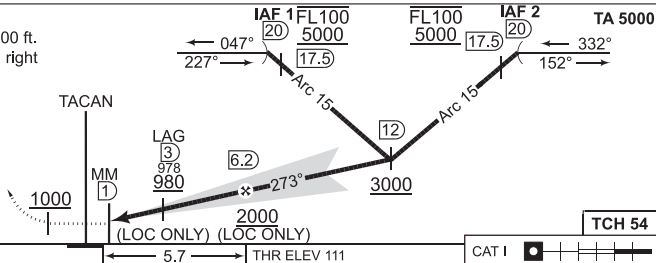
IAF 1
54°07.43'N
012°43.97'E

IAF 2
53°36.80'N
012°30.31'E



MISSED APPROACH

Climb straight ahead to 4000 ft.
When passing 1000 ft turn right
to intercept LAG R-047
outbound to IAF 1.



CATEGORY	A	B	C	D	E
ILS Y 27	311 - 0.8 200 (200-0.8/1.6)				NOT AUTHORIZED
LOC Y 27	480 - 1.0 369 (400-1.0/1.5)		480 - 1.0 369 (400-1.0/1.7)		NOT AUTHORIZED
① 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 Y RWY 27

53°55.09'N
012°16.76'E

LAAGE (ETNL)

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

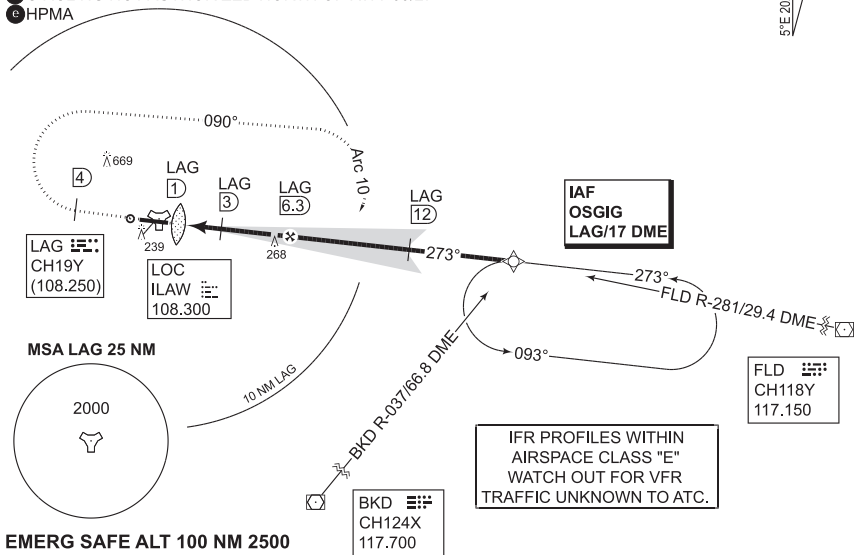
NOTE:

- PAPI AND ILS GLIDEPATH DO NOT COINCIDE
- DME REQUIRED.
- RNAV REQUIRED FOR HOLDING, IN CASE OF LOST COM FOR NON-RNAV EQUIPPED ACFT DISREGARD ETA AND START APPROACH WITHOUT DELAY.

④ CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.

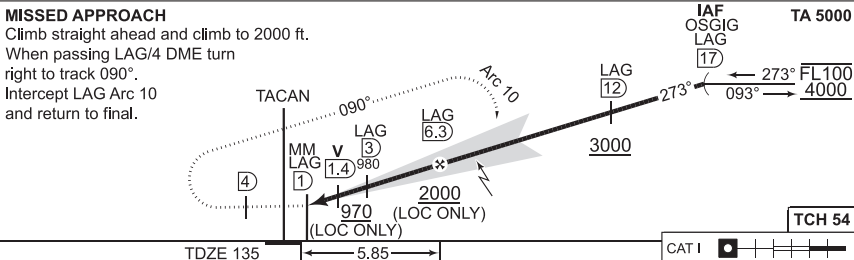
⑤ HPMA

IAF OSGIG
53°52.71'N
012°45.61'E



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.



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
④ 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

RNP RWY 27
LAAGE (ETNL)

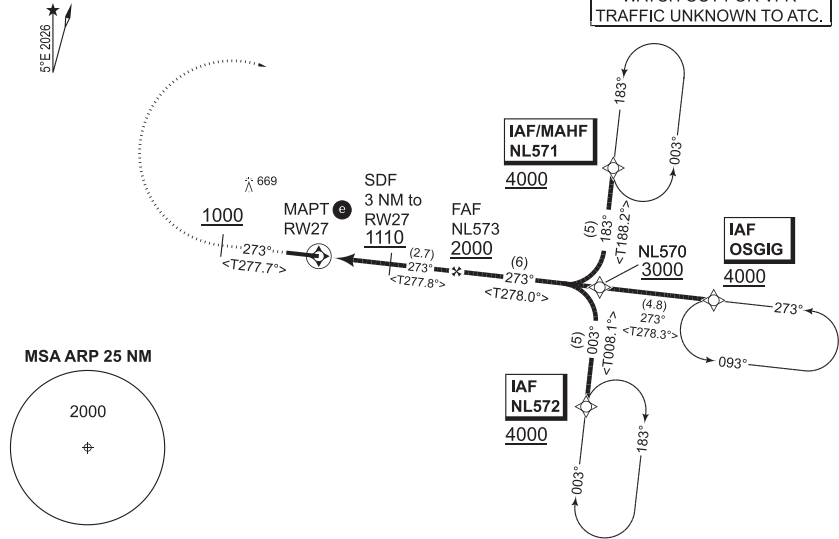
BREMEN RADAR 259.825 124.175		LAAGE RADAR 376.400 133.105		LAAGE TOWER 336.400 118.430		LAAGE ATIS 134.605	
APP COURSE 273°		FAF ALT 2000		DESCENT GR 3.0° / 5.2%		DA/MDA see CAT	
				THR ELEV 111		ALS-LENGTH 900 M	
						LDA 8268	

NOTE:

- a) NAVIGATION SENSOR: GNSS ONLY.
- b) NAVIGATION SPECIFICATION: RNAV 1 UNTIL NL570, RNP APCH THEREAFTER.
- c) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
- d) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- e) NO TURN BEFORE MAPT.

EGNOS CHANNEL
87850 E27A

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



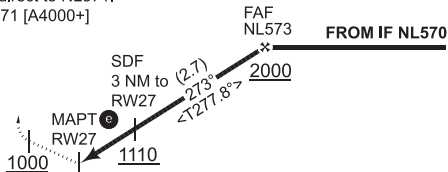
EMERG SAFE ALT 100 NM 2500

MISSED APPROACH

Climb on course 273° to 4000 ft. When passing 1000 ft turn right direct to NL571. [M273 A1000+; R] → NL571 [A4000+]

Dist THR	1	2	3	4	5	5.8
Altitude	480	800	1120	1430	1750	2000

TA 5000



TCH 50

THR ELEV 111

5.8

CAT I

CATEGORY	A	B	C	D
LNAV	490 - 1.0 379 (400-1.0/1.5)		490 - 1.0 379 (400-1.0/1.7)	
C NNAV/VNAV	403 - 0.8 650 292 (300-0.8/1.4)	416 - 0.8 700 305 (400-0.8/1.4)	464 - 0.9 353 267 (400-0.9/1.6)	475 - 1.0 364 (400-1.0/1.7)
LPV	311 - 0.8 550 200 (200-0.8/1.2)			
d CIRCLING	550 - 1.9 410 (500-1.9)	640 - 2.3 500 (500-2.3)	1180 - 4.9 1040 (1100-4.9)	

RNP RWY 27

53°55.09'N
012°16.76'E

LAAGE (ETNL)

RNP RWY 27 FROM OSGIG:

	CODING	DISPLAY
OSGIG (IAF)	53 52 42.43 N 012 45 36.79 E	53 52.707 N 012 45.613 E
NL570 (IF)	53 53 23.32 N 012 37 37.06 E	53 53.389 N 012 37.618 E
NL573 (FAF)	53 54 12.80 N 012 27 34.34 E	53 54.213 N 012 27.572 E
RW27 (MAPT)	53 54 59.64 N 012 17 53.86 E	53 54.994 N 012 17.898 E
NL571 (MAHF)	53 58 19.79 N 012 38 49.12 E	53 58.330 N 012 38.819 E

RNP RWY 27 FROM NL571:

	CODING	DISPLAY
NL571 (IAF)	53 58 19.79 N 012 38 49.12 E	53 58.330 N 012 38.819 E
NL570 (IF)	53 53 23.32 N 012 37 37.06 E	53 53.389 N 012 37.618 E
NL573 (FAF)	53 54 12.80 N 012 27 34.34 E	53 54.213 N 012 27.572 E
RW27 (MAPT)	53 54 59.64 N 012 17 53.86 E	53 54.994 N 012 17.898 E
NL571 (MAHF)	53 58 19.79 N 012 38 49.12 E	53 58.330 N 012 38.819 E

RNP RWY 27 FROM NL572:

	CODING	DISPLAY
NL572 (IAF)	53 48 26.83 N 012 36 25.29 E	53 48.447 N 012 36.422 E
NL570 (IF)	53 53 23.32 N 012 37 37.06 E	53 53.389 N 012 37.618 E
NL573 (FAF)	53 54 12.80 N 012 27 34.34 E	53 54.213 N 012 27.572 E
RW27 (MAPT)	53 54 59.64 N 012 17 53.86 E	53 54.994 N 012 17.898 E
NL571 (MAHF)	53 58 19.79 N 012 38 49.12 E	53 58.330 N 012 38.819 E

Threshold Coordinates

RWY 27	53 54 59.64 N 012 17 53.86 E	53 54.994 N 012 17.898 E
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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 470	THR ELEV 111	ALS-LENGTH 900 m	LDA 8268

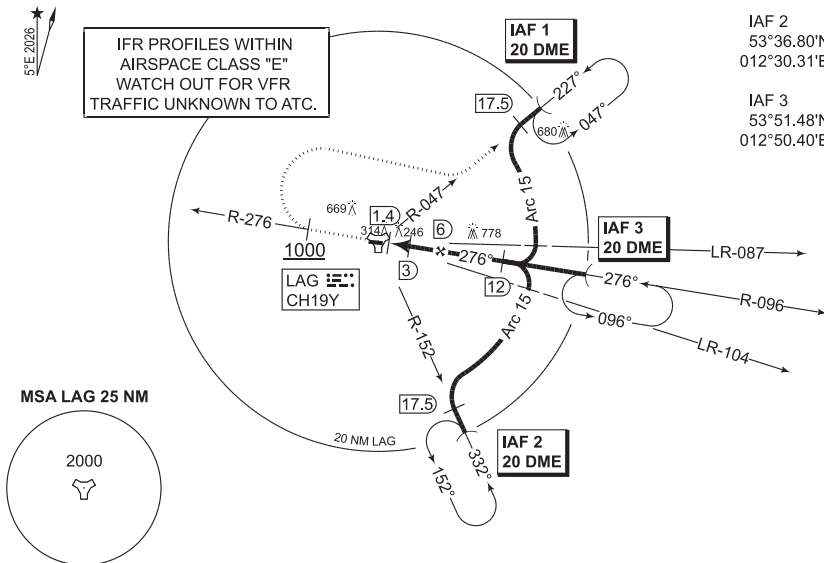
NOTE:

- 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

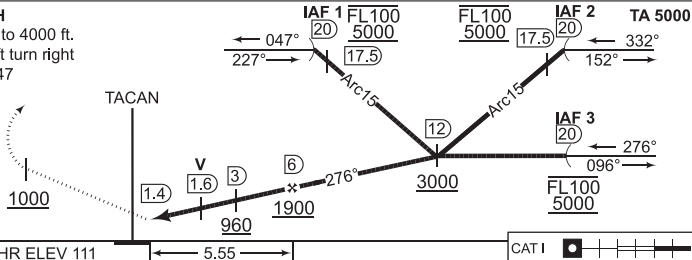
IAF 3
53°51.48'N
012°50.40'E



EMERG SAFE ALT 100 NM 2500

MISSED APPROACH

Climb on LAG R-276 to 4000 ft.
When passing 1000 ft turn right
to intercept LAG R-047
outbound to IAF 1.



CHANGE: REVISED CHART (150/26)

CATEGORY		A	B	C	D	E
TACAN 27		470 - 0.9 359 (400 - 0.9/1.5)		470 - 0.9 359 (400 - 0.9/1.6)		NOT AUTHORIZED
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		319 - 0.8/550 208 (300-0.8/1.2)				

TACAN RWY 27

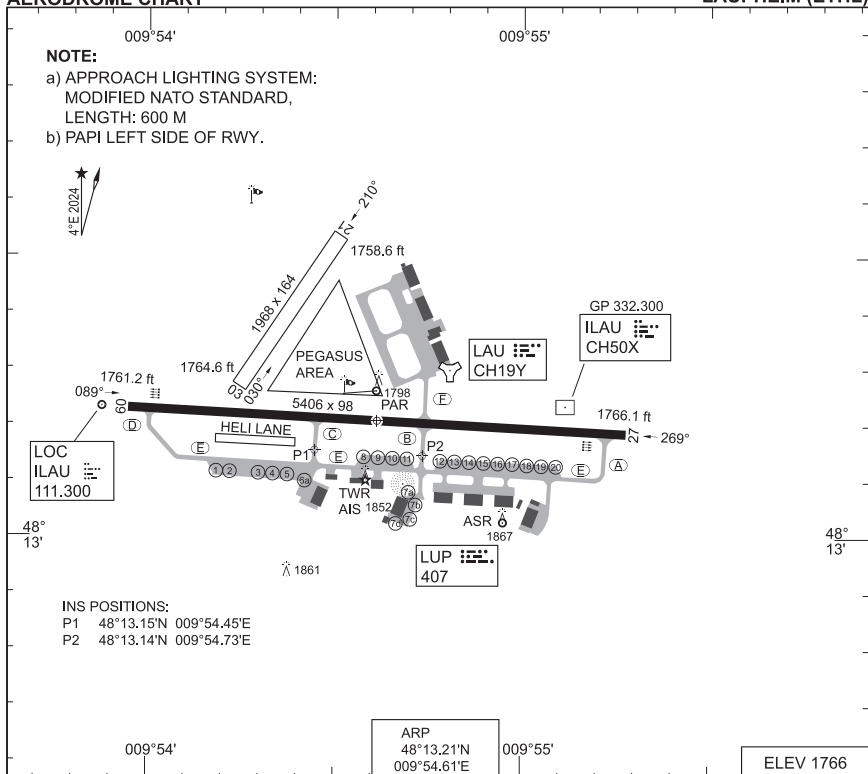
53°55.09'N
012°16.76'E

LAAGE (ETNL)

ACC 06 AUG 2026

AERODROME CHART

LAUPHEIM (ETHL)



RWY	LCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN
09	30	5406	5406	5406	5406	3.0°	1763	48°13.23'N 009°53.95'E
27	30	5406	5406	5406	5406	3.0°	1766	48°13.18'N 009°55.28'E
03								48°13.27'N 009°54.24'E
21								48°13.54'N 009°54.51'E

LIMA TOWER 377.575 138.750x
LIMA RADAR 241.875 120.455 293.850 138.450x SSR Mode Codes 3/A 4230 - 4237

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	TERPS	09	3.0°	36		651	ABC	TERPS	1966 - 1.2 200 (200-1.2)
	TERPS	27	3.0°	34		653	AB	TERPS	1966 - 0.8 200 (200-0.8/1.2)
							C		1966 - 1.2 200 (200-1.2)
	TERPS	275	3.0°			653	COPTER	TERPS	1866 - 0.4 100 (100-0.4/0.8)
SRA	TERPS	095	3.0°			651	COPTER	TERPS	1866 - 0.8 100 (100-0.8)
	PANS-OPS	09					AB	PANS-OPS	2170 - 1.2 409 (500-1.2/1.5)
							CD		2170 - 1.2 409 (500-1.2/1.9)
	PANS-OPS	27					AB	PANS-OPS	2230 - 1.5 464 (500-1.5)
							CD		2230 - 1.5 464 (500-1.5/2.2)

AERODROME CHART

LAUPHEIM (ETHL)

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 1766

PELOG 1B - 1C
LAUPHEIM (ETHL)

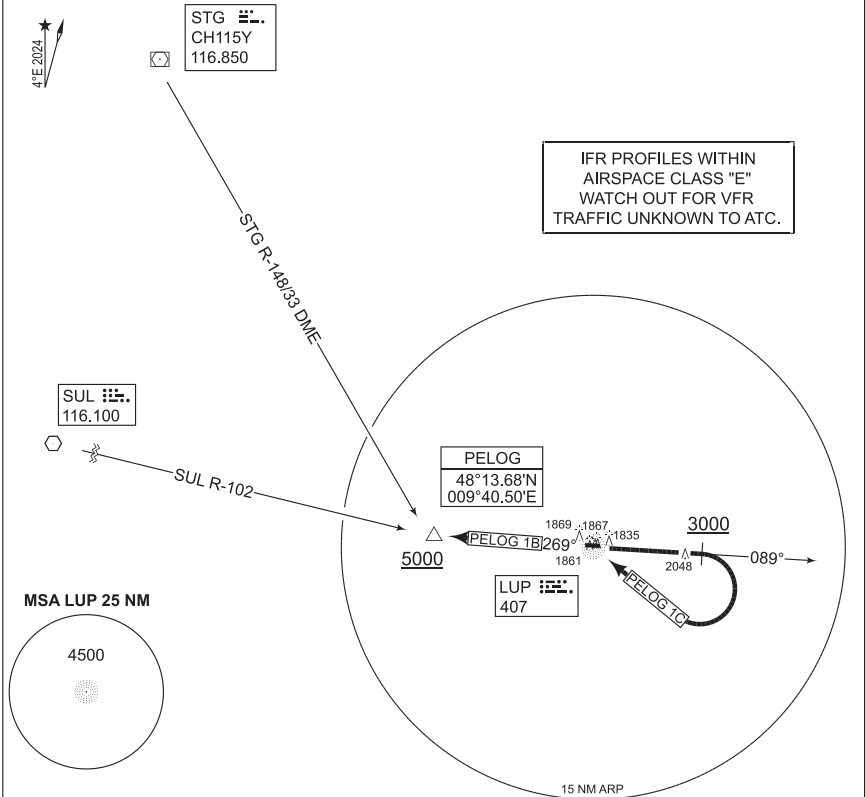
LIMA TOWER 377.575 122.100		LIMA RADAR 293.850 120.455			MUENCHEN RADAR 253.500 129.450					
CAUTION:		RWY	from - to	60	120	180	240	300	360	Reason
		27	5000 ft	360	720	1080	1440	1800	2160	ATC

CAUTION:

- a) CLOSE IN OBSTACLE
TWR 198 M SOUTH OF RWY 1841 FT.

NOTE:

- b) NOT USABLE FOR ACFT CAT D AND E.



PELOG 1B (RWY 27)	- Climb on LUP track 269° to reach PELOG (STG R-148) at 5000 ft or above
PELOG 1C (RWY 09)	- Climb on track 089° - When passing 3000 ft or above turn right inbound LUP NDB and continue climb to 5000 ft - When crossing LUP NDB intercept track 270° to cross PELOG (STG R-148) at 5000 ft or above NOTE: - Departure turn limited to 180 KIAS MAX - No turn before DER

PELOG 1B - 1C

48°13.21'N
009°54.61'E

LAUPHEIM (ETHL)

CHANGE: REVISED CHART (148/26)

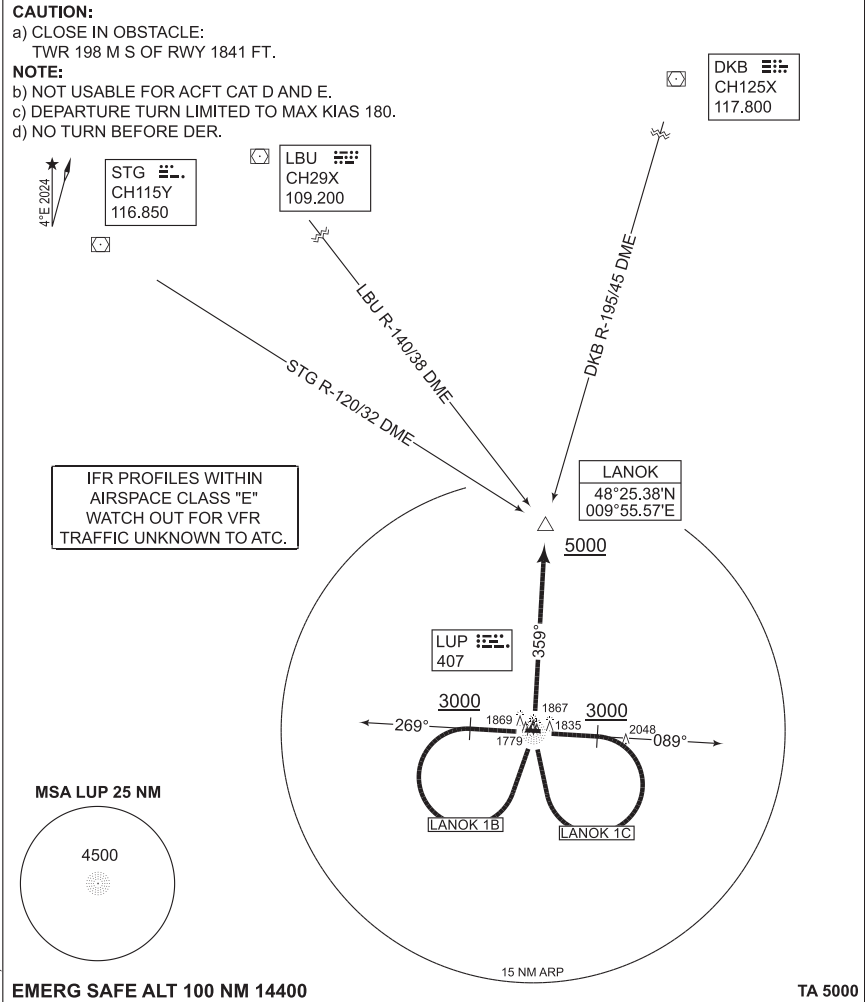
ACC 06 AUG 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 1766

LANOK 1B - 1C
LAUPHEIM (ETHL)

LIMA TOWER 377.575 122.100	LIMA RADAR 293.850 120.455	MUENCHEN RADAR 253.500 129.450
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LANOK 1B (RWY 27)	- Climb on track 269° - When passing 3000 ft or above turn left inbound LUP NDB and continue climb to 5000 ft - When crossing LUP NDB intercept track 359° to cross LANOK (STG R-120) at 5000 ft or above
LANOK 1C (RWY 09)	- Climb on track 089° - When passing 3000 ft or above turn right inbound LUP NDB and continue climb to 5000 ft - When crossing LUP NDB intercept track 359° to cross LANOK (STG R-120) at 5000 ft or above

LANOK 1B - 1C

48°13.21'N
009°54.61'E

LAUPHEIM (ETHL)

CHANGE: REVISED CHART (148/26)

ACC 06 AUG 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 1766

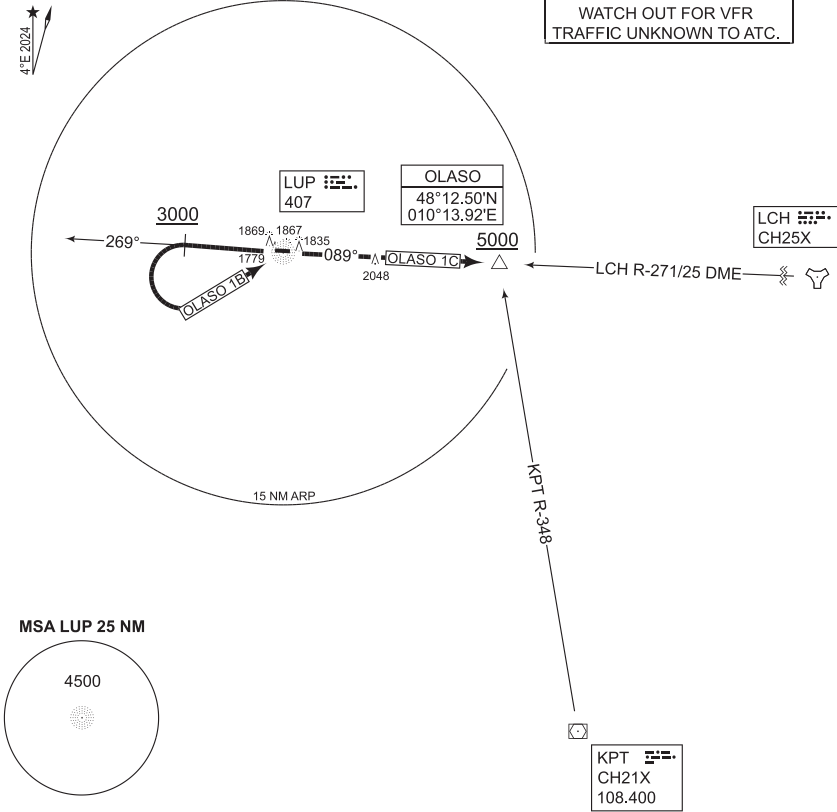
OLASO 1B - 1C
LAUPHEIM (ETHL)

LIMA TOWER 377.575 122.100		LIMA RADAR 293.850 120.455		MUENCHEN RADAR 253.500 129.450	
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RWY	from - to	60	120	180	240	300	360	Reason
09	5000 ft	260	520	1040	1300	1560	1820	ATC

CAUTION:
a) CLOSE IN OBSTACLE:
TWR 198 M S OF RWY 1841 FT.
NOTE:
b) NOT USABLE FOR ACFT CAT D AND E.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 14400 TA 5000

OLASO 1B (RWY 27)	- Climb on track 269° - When passing 3000 ft or above turn left inbound LUP NDB and continue climb to 5000 ft - When crossing LUP NDB intercept track 089° to cross OLASO at 5000 ft or above NOTE: - Departure turn limited to 180 KIAS MAX - No turn before DER
OLASO 1C (RWY 09)	- Climb on LUP NDB track 089° to reach OLASO at 5000 ft or above

OLASO 1B - 1C

48°13.21'N
009°54.61'E

LAUPHEIM (ETHL)

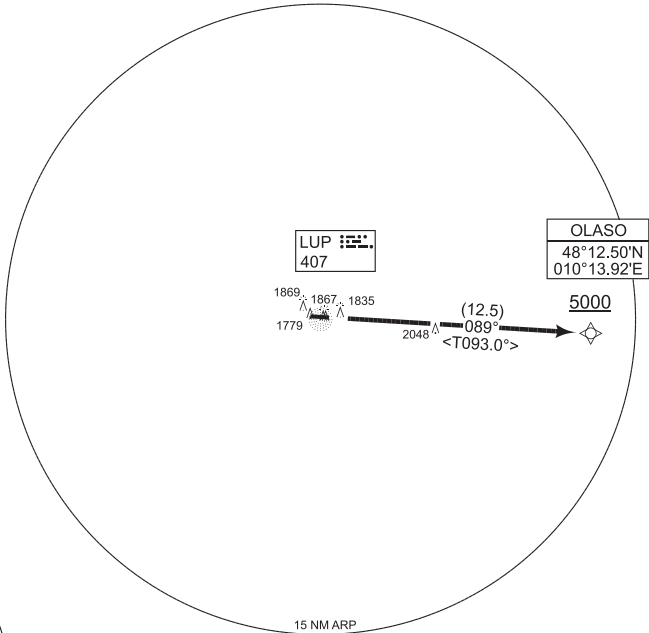
CHANGE: REVISED CHART (148/26)

ACC 06 AUG 2026

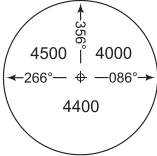
LIMA TOWER 377.575 122.100		LIMA RADAR 293.850 120.455				MUENCHEN RADAR 253.500 129.450				
		RWY	from - to	60	90	120	180	240	300	Reason
		09	DER-5000 ft	258	387	516	774	1031	1289	ATC

NOTE:
RNAV 1 NAVIGATION APPLICATION:
a) GNSS REQUIRED.
b) DME/DME NOT AUTHORIZED.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA ETHL 25 NM



EMERG SAFE ALT 100 NM 14400

TA 5000

OLASO 1A
(RWY 09)

- Climb on track 089° to OLASO
- Pass OLASO at or above A5000 ft MSL
- Continue as cleared by ATC
- OLASO [M089; A5000+]

CHANGE: EDITORIAL (185/25)

ACC 19 FEB 2026

LIMA TOWER 377.575 122.100		LIMA RADAR 293.850 120.455				MUENCHEN RADAR 253.500 129.450			
		RWY	from - to	60	90	120	180	240	Reason
		27	DER-5000 ft	358	537	716	1074	1432	1790

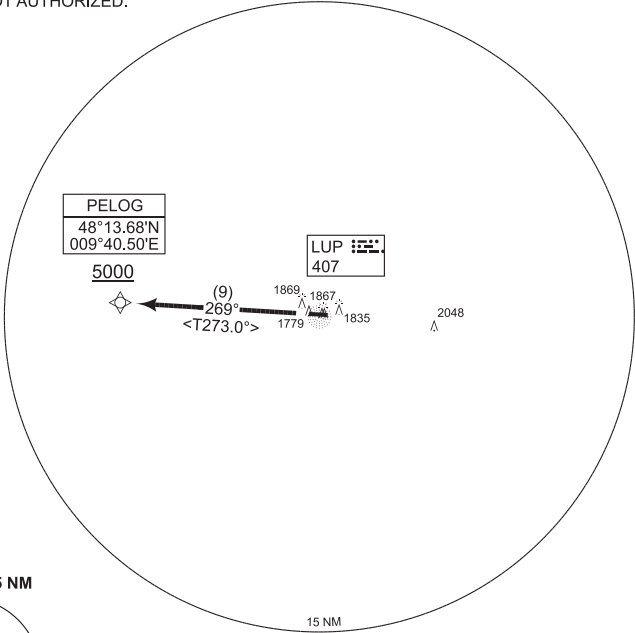
CAUTION:

a) CLOSE IN OBSTACLE TRAFFIC LIGHT
143 M SOUTH OF DER ALTITUDE 1779 FT.

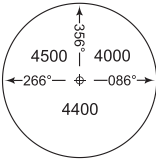
NOTE:

- RNAV 1 NAVIGATION APPLICATION:
b) GNSS REQUIRED.
c) DME/DME NOT AUTHORIZED.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA ETHL 25 NM



EMERG SAFE ALT 100 NM 14400

TA 5000

PELOG 1A
(RWY 27)

- Climb on Track 269° to PELOG.
- Pass PELOG at or above A5000 ft MSL.
- Continue as cleared by ATC
PELOG [M270; A5000+]

CHANGE: EDITORIAL (185/25)

ACC 19 FEB 2025

PANS-OPS
INSTRUMENT APPROACH CHART

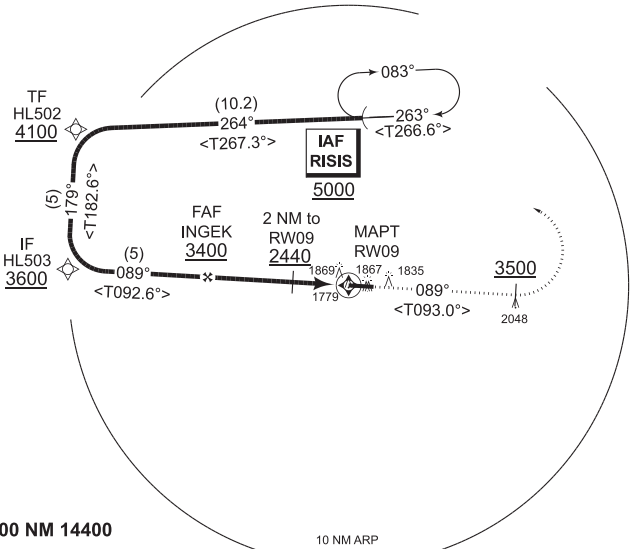
AD ELEV 1766

RNP RWY 09
LAUPHEIM (ETHL)

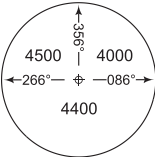
MUENCHEN RADAR 253.500 129.450		LIMA RADAR 293.850 120.455		LIMA TOWER 122.100 377.575		
APP COURSE 089°	FAF ALT 3400	GS 3° / 5.2%	DA / MDA See CAT	THR ELEV 1761	ALS-LENGTH -	LDA 5406

- CAUTION:**
a) DISREGARD PAPI.
NOTE:
b) GNSS REQUIRED.
c) PROCEDURE LIMITED TO 220 KIAS MAX.
d) BARO-VNAV NOT AUTHORIZED BELOW -30°C.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



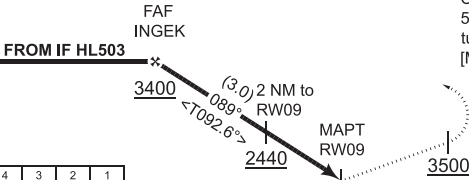
MSA ETHL 25 NM



EMERG SAFE ALT 100 NM 14400

10 NM ARP

TA 5000



MISSED APPROACH
Climb on Track 089° to altitude 5000 ft. When passing 3500 ft turn left direct RISIS.
[M090,A3500;L],→RISIS [5000+]

Dist THR / RW09	5	4	3	2	1
Altitude	3400	3100	2800	2440	2120

5					THR ELEV 1761	NO LIGHTS
TCH 50						
CATEGORY	A		B		C	D
LNAV	2120 - 1.5 359 (400-1.5)				2120 - 1.6 359 (400-1.6)	
LNAV / VNAV	2012 - 1.3 251 (300-1.3)		2023 - 1.3 262 (300-1.3)		2030 - 1.3 269 (300-1.3)	2039 - 1.3 278 (300-1.3)

RNP RWY 09

48°13.21'N
009°54.61'E

LAUPHEIM (ETHL)

CHANGE: EDITORIAL (185/25)

MIPS

ACC 19 FEB 2026

RNP RWY 09 FROM RISIS:

	CODING	DISPLAY
RISIS (IAF)	48 19 12.14 N 009 54 36.75 E	48 19.202 N 009 54.613 E
HL502 (TF)	48 18 41.96 N 009 39 17.30 E	48 18.699 N 009 39.288 E
HL503 (IF)	48 13 42.53 N 009 38 56.98 E	48 13.709 N 009 38.950 E
INGEK (FAF)	48 13 28.66 N 009 46 25.17 E	48 13.478 N 009 46.420 E
RW09 (MAPT)	48 13 13.72 N 009 53 56.88 E	48 13.229 N 009 53.948 E
RISIS (MAHF)	48 19 12.14 N 009 54 36.75 E	48 19.202 N 009 54.613 E

Threshold Coordinates

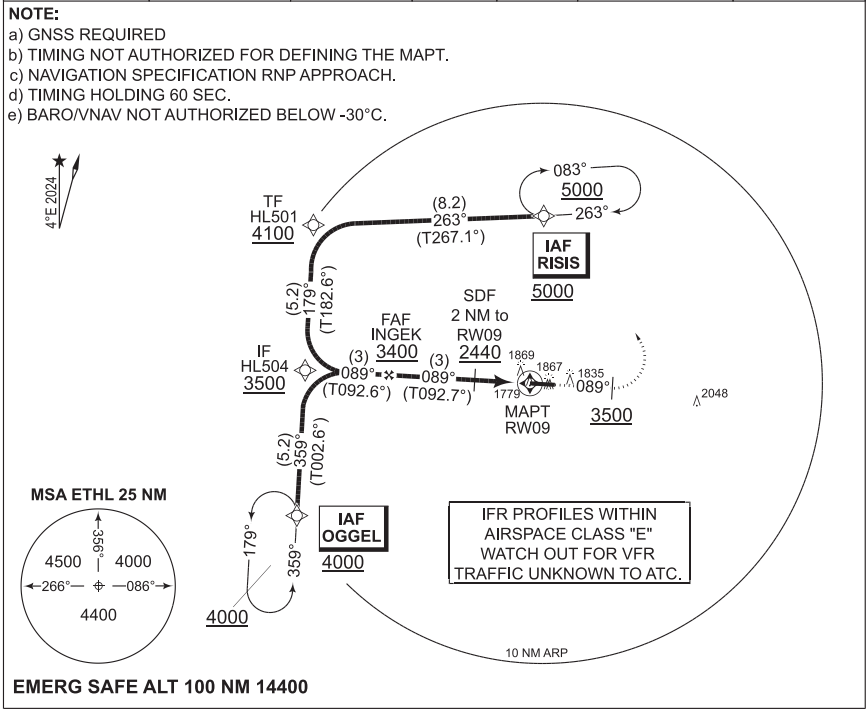
RWY 09	48 13 13.72 N 009 53 56.88 E	48 13.229 N 009 53.948 E
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PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1766

COPTER RNP RWY 09
LAUPHEIM (ETHL)

MUENCHEN RADAR 253.500 129.450		LIMA RADAR 293.850 120.455		LIMA TOWER 122.100 377.575	
APP COURSE 089°	FAF ALT 3400	DESCENT GR 5.2%	DA / MDA See CAT	THR ELEV 1761	ALS-LENGTH - LDA 5406



FROM IF HL504		FAF INGEK	SDF 2 NM to RW09	MAPT RW09	TA 5000
3500		3400	2440	3500	
		(3) 089° (T092.7°)			
Distance THR	5	4	3	2	
Altitude	3400	3070	2760	2440	
					TCH 36
					THR ELEV 1761
					NO LIGHTS
CATEGORY	H				
LNAV	2120 - 1.5 359 (400-1.5)				
LNAV/VNAV	2012 - 1.3 251 (300-1.3)				

RWY 09 from RISIS APPROACH RNAV (GNSS)

	CODING	DISPLAY
RISIS (IAF)	48 19 12.14 N 009 54 36.75 E	48 19.202 N 009 54.613 E
HL501 (TF)	48 18 48.04 N 009 42 17.77 E	48 18.801 N 009 42.296 E
HL504 (IF)	48 13 37.04 N 009 41 56.26 E	48 13.617 N 009 41.938 E
INGEK (FAF)	48 13 28.66 N 009 46 25.17 E	48 13.478 N 009 46.420 E
RW09 (MAPT)	48 13 13.72 N 009 53 56.88 E	48 13.229 N 009 53.948 E
RISIS (MAHF)	48 19 12.14 N 009 54 36.75 E	48 19.202 N 009 54.613 E

RWY 09 from OGGEL APPROACH RNAV (GNSS)

	CODING	DISPLAY
OGGEL (IAF)	48 08 26.03 N 009 41 34.83 E	48 08.434 N 009 41.580 E
HL504 (IF)	48 13 37.04 N 009 41 56.26 E	48 13.617 N 009 41.938 E
INGEK (FAF)	48 13 28.66 N 009 46 25.17 E	48 13.478 N 009 46.420 E
RW09 (MAPT)	48 13 13.72 N 009 53 56.88 E	48 13.229 N 009 53.948 E
RISIS (MAHF)	48 19 12.14 N 009 54 36.75 E	48 19.202 N 009 54.613 E

Threshold Coordinates

RWY 09	48 13 13.72 N 009 53 56.88 E	48 13.229 N 009 53.948 E
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PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1766

COPTER NDB RWY 09
LAUPHEIM (ETHL)

MUENCHEN RADAR 253.500 129.450		LIMA RADAR 293.850 120.455		LIMA TOWER 122.100 377.575	
APP COURSE 094°	DESCENT GR 7.3%	MDA 2310	THR ELEV 1761	ALS-LENGTH —	LDA 5406

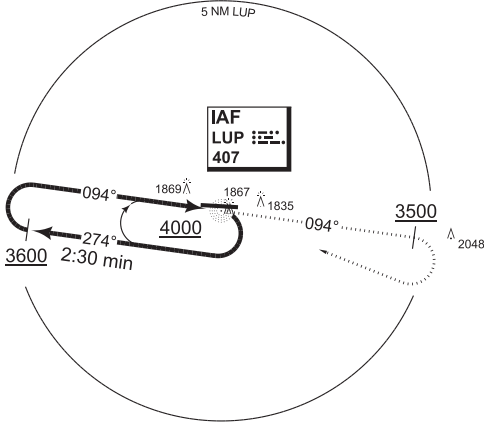
CAUTION:

a) INCREASED DESCENT RATE ON FINAL.

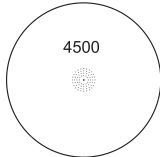
IAF
48°13.09'N
009°54.68'E



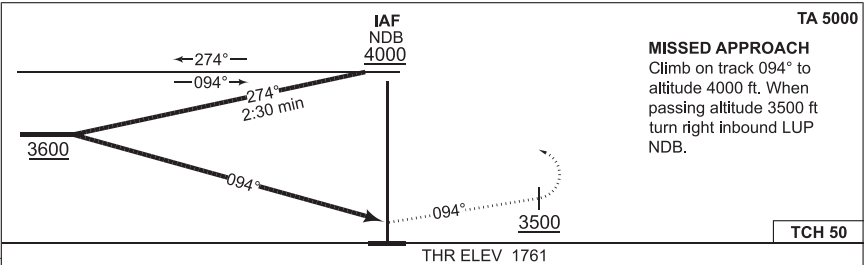
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA LUP 25 NM



EMERG SAFE ALT 100 NM 14400



MISSED APPROACH
Climb on track 094° to
altitude 4000 ft. When
passing altitude 3500 ft
turn right inbound LUP
NDB.

TA 5000

TCH 50

CATEGORY COPTER	
H-RWY 09	2310 - 0.8 549 (600-0.8)

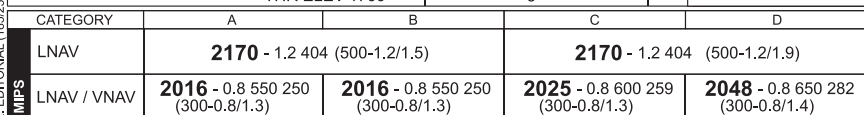
COPTER NDB RWY 09

48°13.21'N
009°54.61'E

LAUPHEIM (ETHL)

RNP RWY 27
LAUPHEIM (ETHL)

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

**LAUPHEIM (ETHL)**

RNP RWY 27 FROM RISIS:

	CODING	DISPLAY
RISIS (IAF)	48 19 12.14 N 009 54 36.75 E	48 19.202 N 009 54.613 E
HL402 (TF)	48 17 38.99 N 010 10 44.47 E	48 17.650 N 010 10.741 E
HL403 (IF)	48 12 39.62 N 010 10 20.40 E	48 12.660 N 010 10.340 E
TUVEX (FAF)	48 12 55.72 N 010 02 46.87 E	48 12.929 N 010 02.781 E
RW27 (MAPT)	48 13 11.05 N 009 55 16.61 E	48 13.184 N 009 55.277 E
RISIS (MAHF)	48 19 12.14 N 009 54 36.75 E	48 19.202 N 009 54.613 E

Threshold Coordinates

RWY 27	48 13 11.05 N 009 55 16.61 E	48 13.184 N 009 55.277 E
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PANS-OPS
INSTRUMENT APPROACH CHART

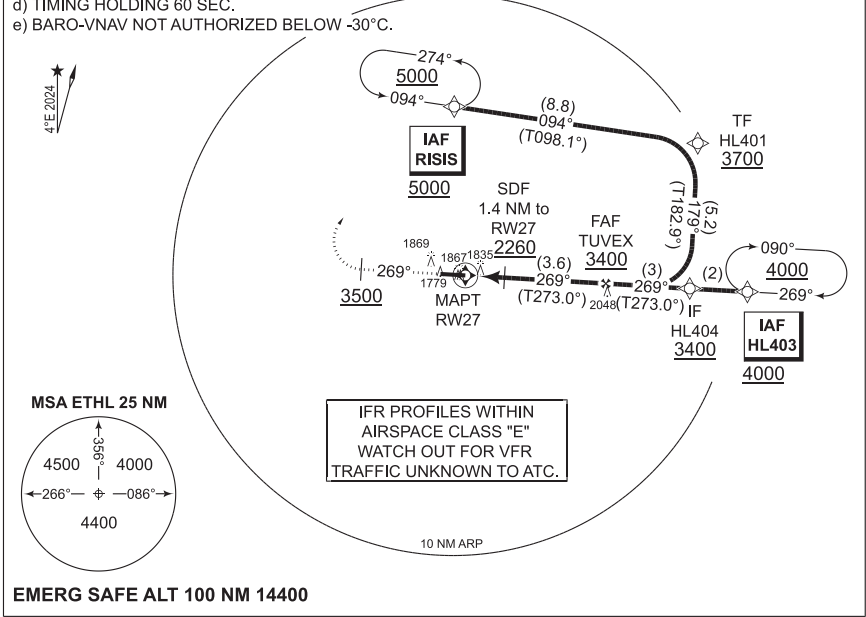
AD ELEV 1766

COPTER RNP RWY 27
LAUPHEIM (ETHL)

MUENCHEN RADAR		LIMA RADAR		LIMA TOWER	
253.500 129.450		293.850 120.455		122.100 377.575	
APP COURSE	FAF ALT	DESCENT GR	DA / MDA	THR ELEV	ALS-LENGTH
269°	3400	5.2%	See CAT	1766	600 M
				LDA	5406

NOTE:

- a) GNSS REQUIRED.
- b) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- c) NAVIGATION SPECIFICATION RNP APPROACH.
- d) TIMING HOLDING 60 SEC.
- e) BARO-VNAV NOT AUTHORIZED BELOW -30°C.

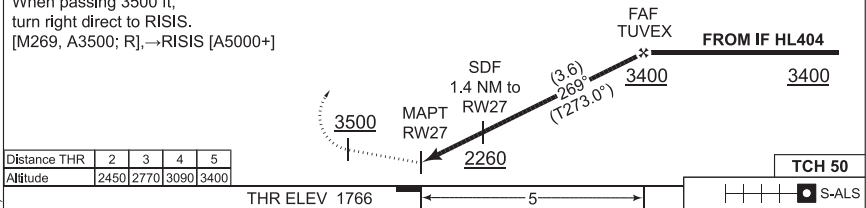


EMERG SAFE ALT 100 NM 14400

MISSED APPROACH

Climb on track 269° to 5000 ft.
When passing 3500 ft,
turn right direct to RISIS.
[M269, A3500; R],→RISIS [A5000+]

TA 5000



Distance THR	2	3	4	5
Altitude	2450	2770	3090	3400
THR ELEV 1766				
H				
CATEGORY				
LNAV	2170 - 1.2 404 (500-1.2/1.5)			
LNAV/VNAV	2016 - 0.8 550 250 (300-0.8/1.3)			

COPTER RNP RWY 27

48°13.21'N
009°54.61'E

LAUPHEIM (ETHL)

CHANGE: EDITORIAL (185/25)

ACC 19 FEB 2026

RWY 27 from RISIS APPROACH RNAV (GNSS)

	CODING	DISPLAY
RISIS (IAF)	48 19 12.14 N 009 54 36.75 E	48 19.202 N 009 54.613 E
HL401 (TF)	48 17 57.02 N 010 07 39.07 E	48 17.950 N 010 07.651 E
HL404 (IF)	48 12 46.24 N 010 07 15.63 E	48 12.771 N 010 07.261 E
TUVEX (FAF)	48 12 55.72 N 010 02 46.87 E	48 12.929 N 010 02.781 E
RW27 (MAPT)	48 13 11.05 N 009 55 16.61 E	48 13.184 N 009 55.277 E
RISIS (MAHF)	48 19 12.14 N 009 54 36.75 E	48 19.202 N 009 54.613 E

RWY 27 from HL403 APPROACH RNAV (GNSS)

	CODING	DISPLAY
HL403 (IAF)	48 12 39.62 N 010 10 20.40 E	48 12.660 N 010 10.340 E
HL404 (IF)	48 12 46.24 N 010 07 15.63 E	48 12.771 N 010 07.261 E
TUVEX (FAF)	48 12 55.72 N 010 02 46.87 E	48 12.929 N 010 02.781 E
RW27 (MAPT)	48 13 11.05 N 009 55 16.61 E	48 13.184 N 009 55.277 E
RISIS (MAHF)	48 19 12.14 N 009 54 36.75 E	48 19.202 N 009 54.613 E

Threshold Coordinates

RWY 27	48 13 11.05 N 009 55 16.61 E	48 13.184 N 009 55.277 E
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PANS-OPS
INSTRUMENT APPROACH CHART

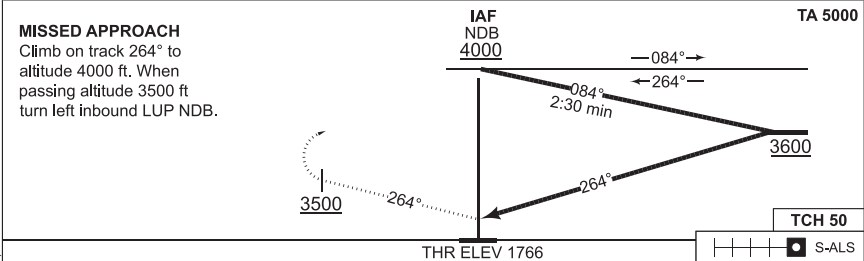
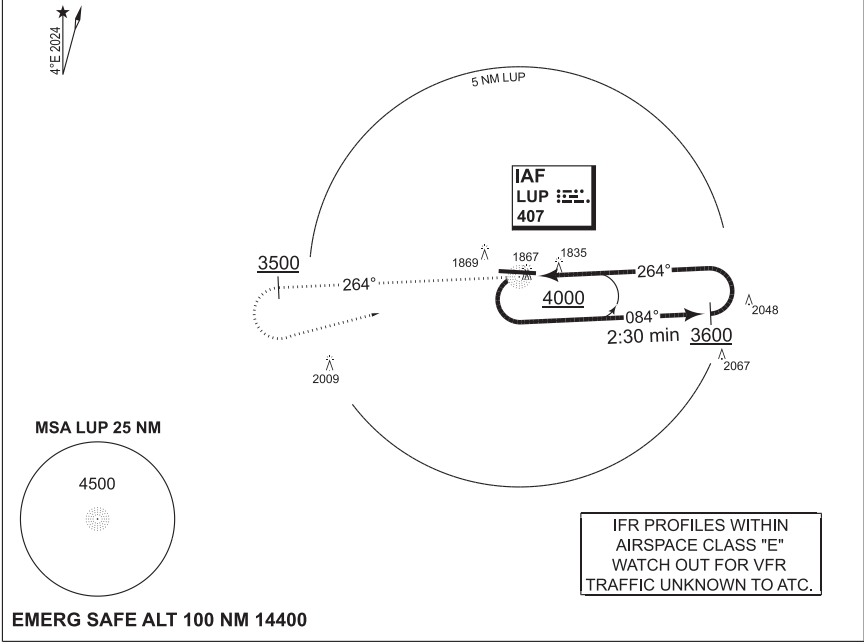
AD ELEV 1766

COPTER NDB RWY 27
LAUPHEIM (ETHL)

MUENCHEN RADAR 253.500 129.450		LIMA RADAR 293.850 120.455		LIMA TOWER 122.100 377.575	
APP COURSE 264°	DESCENT GR 7.1%	MDA 2350	THR ELEV 1766	ALS-LENGTH 600 M	LDA 5406

CAUTION:
a) INCREASED DESCENT RATE ON FINAL.

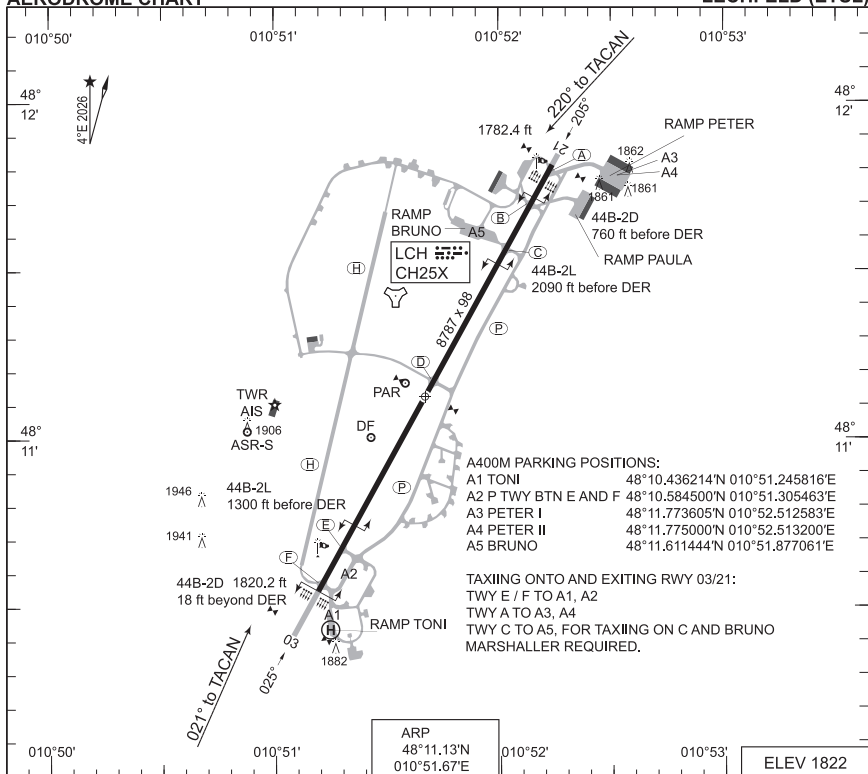
IAF
48°13.09'N
009°54.68'E



MIPS	CATEGORY	COPTER
	H-RWY 27	2350 - 0.8 584 (600-0.8)

AERODROME CHART

LECHFELD (ETSL)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN
03	45 F/A/W/T	8787	8787	8787	8787	3.0°	1820	48°10.55'N 010°51.19'E
21	45 F/A/W/T	8787	8787	8787	8787	3.0°	1785	48°11.81'N 010°52.24'E

LECHFELD TOWER 363.375 122.100 135.155
 LECHFELD RADAR 376.300 374.925 129.030 SSR 4270 - 4277

*in front of threshold

PAR	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
	TERPS	03	3.0°		42	123*	ABCDE	MIPS	2022 - 0.8 200 (200-0.8/1.2)
	PANS OPS	21	3.0°	51		863	ABCDE	MIPS	1982 - 0.8 550 200 (200-0.8/1.2)

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 1822

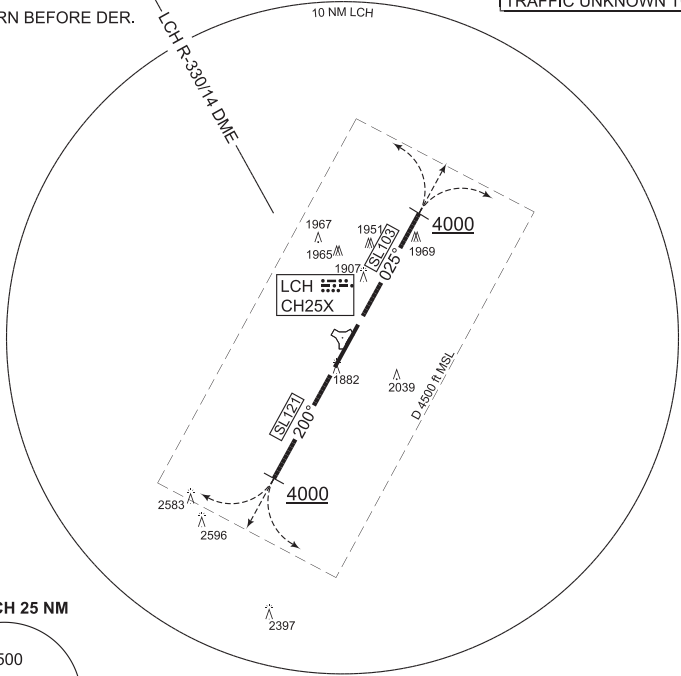
SL 103 - 121
LECHFELD (ETSL)

LECHFELD TOWER		LECHFELD RADAR				MUENCHEN RADAR			
363.375 135.155		376.300	374.925	129.030		242.200	136.525		
RWY	from-to	60	90	120	180	240	300	Reason	
03	DER - 4000 ft	408	816	1224	1632	2040	2448	ATC	
21	DER - 4000 ft	395	790	1185	1577	1972	2367	ATC	

PESIM
48°23.95'N
010°41.23'E

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 14800

TA 5000

SL 103 (RWY 03)	- Climb on track 025° to 4000 ft - Continue as cleared by ATC
SL 121 (RWY 21)	- Climb on track 200° to 4000 ft - Continue as cleared by ATC

SL 103 - 121

48°11.13'N
010°51.67'E

LECHFELD (ETSL)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1822

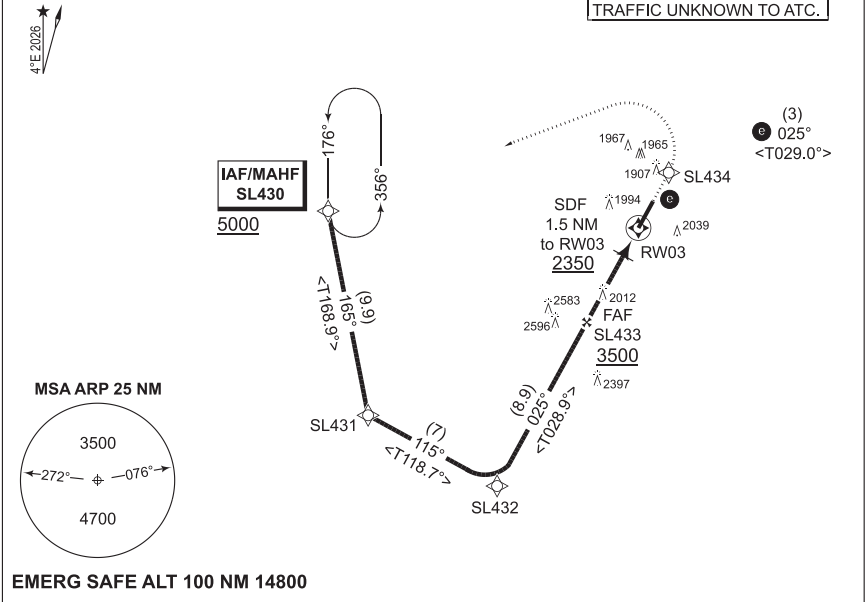
RNP RWY 03
LECHFELD (ETSL)

MUENCHEN RADAR 242.200 136.525		LECHFELD RADAR 376.300 374.925 129.030		LECHFELD TOWER 363.375 135.155 122.100		
APP COURSE 025°	FAF ALT 3500	GS 3° / 5.2%	DA / MDA See CAT	THR ELEV 1820	ALS-LENGTH 700 M	LDA 8787

NOTE:

- a) GNSS REQUIRED.
- b) DISREGARD PAPI.
- c) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
- d) CIRCLING NOT AUTHORIZED WEST OF RWY 03/21.

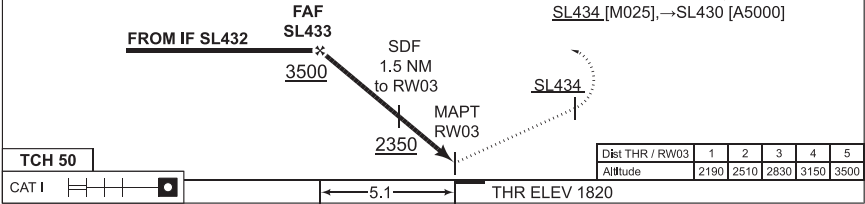
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



TA 5000

MISSED APPROACH

Climb on course 025° to SL434,
turn left direct to SL430, climb to 5000 ft.
SL434 [M025], → SL430 [A5000]



CATEGORY	A	B	C	D
LNAV	2220 - 1.1 398 (400-1.1/1.5)		2220 - 1.1 398 (400-1.1/1.8)	
LNAV / VNAV	2098 - 0.8/600 278 (300-0.8/1.3)	2110 - 0.8/650 290 (300-0.8/1.4)	2118 - 0.8/650 298 (300-0.8/1.4)	2129 - 0.8/700 309 (400-0.8/1.4)
d CIRCLING	2300 - 2.2 478 (500-2.2)	2340 - 2.4 518 (600-2.4)	2490 - 3.1 668 (700-3.1)	2590 - 3.6 768 (800-3.6)

RNP RWY 03

48°11.13'N
010°51.67'E

LECHFELD (ETSL)

RNP RWY 03 FROM SL430:

	CODING	DISPLAY
SL430 (IAF)	48 11 23.36 N 010 29 07.29 E	48 11.389 N 010 29.121 E
SL431 (TF)	48 01 40.61 N 010 31 57.45 E	48 01.677 N 010 31.958 E
SL432 (IF)	47 58 18.30 N 010 41 05.41 E	47 58.305 N 010 41.090 E
SL433 (FAF)	48 06 04.53 N 010 47 29.34 E	48 06.076 N 010 47.489 E
RW03 (MAPT)	48 10 32.98 N 010 51 11.42 E	48 10.550 N 010 51.190 E
SL434 (TF)	48 13 10.29 N 010 53 21.90 E	48 13.171 N 010 53.365 E
SL430 (MAHF)	48 11 23.36 N 010 29 07.29 E	48 11.389 N 010 29.121 E

Threshold Coordinates

RWY 03	48 10 32.98 N 010 51 11.42 E	48 10.550 N 010 51.190 E
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PANS-OPS INSTRUMENT APPROACH CHART

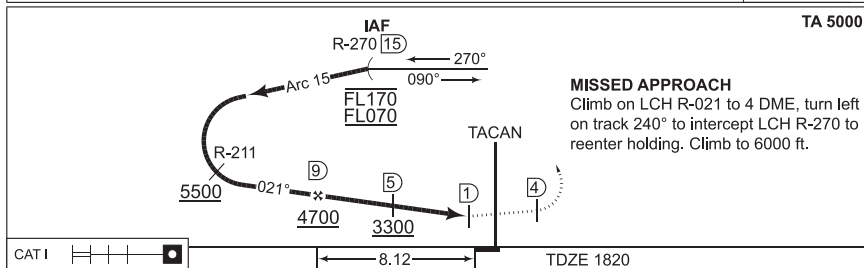
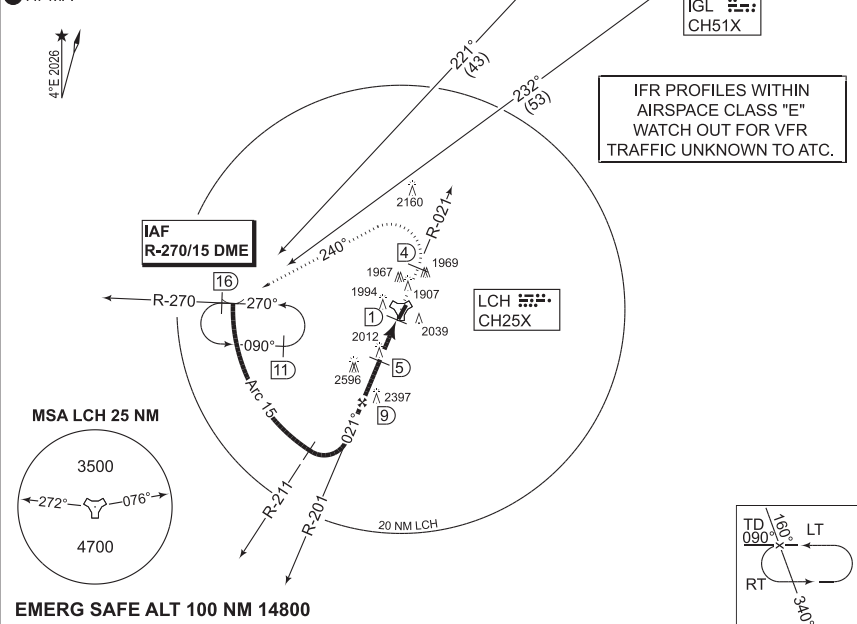
AD ELEV 1822

**TACAN RWY 03
LECHFELD (ETSL)**

MÜNCHEN RADAR 242.200 136.525		LECHFELD RADAR 376.300 374.925 129.030 123.300				LECHFELD TOWER 135.155 363.375 122.100		
TACAN LCH CH25X	APP COURSE 021°	FAF ALT 4700	DESCENT GR 3.3° / 5.7%	MDA 2260	TDZE 1820	ALS-LENGTH 700 M	LDA 8787	

NOTE:

- a) DISREGARD PAPI INDICATION.
- b) CIRCLING NOT AUTHORIZED WEST OF RWY 03/21.
- c) HPMA



CATEGORY	A	B	C	D	E
S-TACAN 03	2260 - 0.8 438 (500-0.8/1.6)		2260 - 1.2 438 (500-1.2/2.0)	2260 - 1.6 438 (500-1.6/2.4)	
b CIRCLING	2290 - 2.2 468 (500-2.2)	2340 - 2.4 518 (600-2.4)	2490 - 3.1 668 (700-3.1)	c 2380 - 3.2 558 (600-3.2)	
PAR 03	2022 - 0.8 200 (200-0.8/1.2) GS 3.0°				

TACAN RWY 03

48°11.13'N
010°51.67'E

LECHFELD (ETSL)

RNP RWY 21
LECHFELD (ETSL)

NOTE:

- a) GNSS REQUIRED.
- b) DISREGARD PAPI.
- c) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
- d) CIRCLING NOT AUTHORIZED WEST OF RWY 03/21.**



[M205,A2500+]→PESIM [A5000+]

TA 5000TCH 50CHANGE: VAR (044/26)

LECHFELD (ETSL)

RNP RWY 21 FROM PESIM:

	CODING	DISPLAY
PESIM (IAF)	48 23 57.00 N 010 41 14.00 E	48 23.950 N 010 41.233 E
SL401 (TF)	48 28 16.85 N 010 51 59.53 E	48 28.281 N 010 51.992 E
SL402 (IF)	48 24 19.18 N 011 02 40.78 E	48 24.320 N 011 02.680 E
SL403 (FAF)	48 16 23.20 N 010 56 02.69 E	48 16.387 N 010 56.045 E
RW21 (MAPT)	48 11 48.81 N 010 52 14.29 E	48 11.814 N 010 52.238 E
PESIM (MAHF)	48 23 57.00 N 010 41 14.00 E	48 23.950 N 010 41.233 E

Threshold Coordinates

RWY 21	48 11 48.81 N 010 52 14.29 E	48 11.814 N 010 52.238 E
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PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 1822

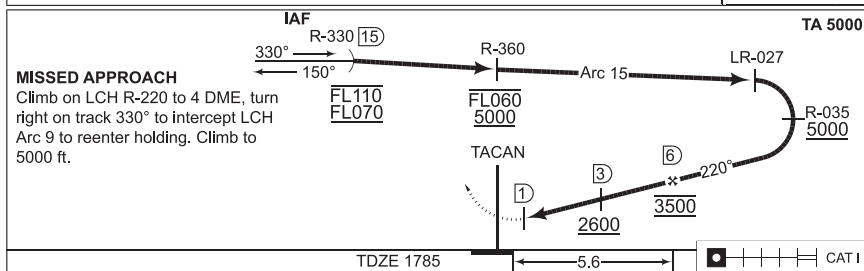
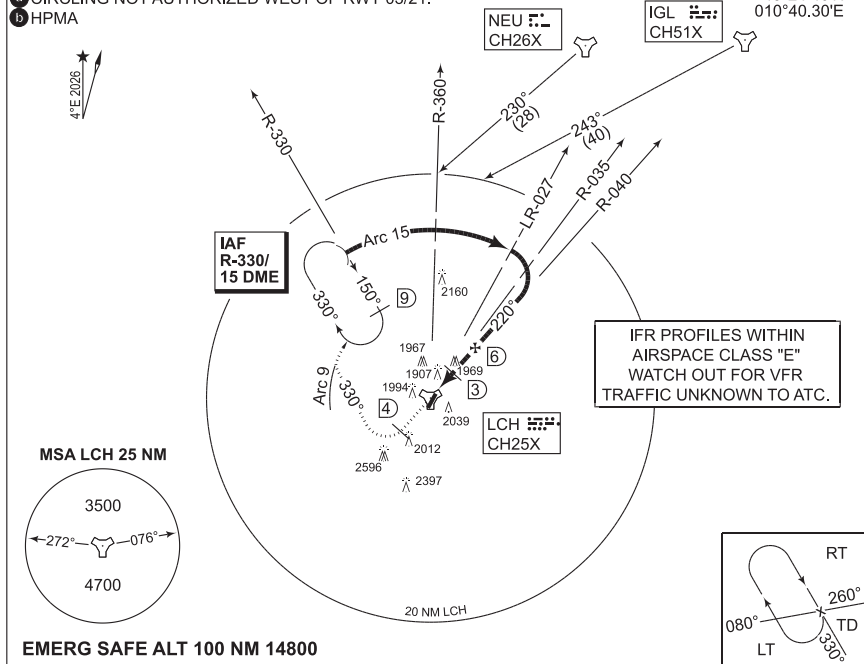
TACAN RWY 21
LECHFELD (ETSL)

MUNCHEN RADAR 242.200 136.525		LECHFELD RADAR 376.300 374.925 129.030 123.300				LECHFELD TOWER 135.155 363.375 122.100		
TACAN LCH CH25X	APP COURSE 220°	FAF ALT 3500	DESCENT GR 3.0° / 5.2%	MDA 2150	TDZE 1785	ALS-LENGTH 750 M	LDA 8787	

NOTE:

- a CIRCLING NOT AUTHORIZED WEST OF RWY 03/21.
b HPMA

IAF
48°24.40'N
010°40.30'E



CATEGORY	A	B	C	D	E
S-TACAN 21	2150 - 0.8 354 (400-0.8/1.6)		2150 - 1.2 354 (400-1.2/1.6)	2150 - 1.2 354 (400-1.2/2.0)	
a CIRCLING	2290 - 2.2 468 (500-2.2)	2340 - 2.4 518 (600-2.4)	2490 - 3.1 668 (700-3.1)	b 2380 - 3.2 558 (600-3.2)	
PAR 21	1982 - 0.8 550 200 (200-0.8/1.2) GS 3.0°				

TACAN RWY 21

48°11.13'N
010°51.67'E

LECHFELD (ETSL)

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 1822

ARA/IAA RWY 21
LECHFELD (ETSL)

MUENCHEN RADAR 242.200 136.525		LECHFELD RADAR 376.300 374.925 129.030			LECHFELD TOWER 135.155 363.375	
APP COURSE 205°	FAF ALT 3500	DESCENT GR 5.27%	MDA 2160	TDZE 1785	ALS-LENGTH 750 M	LDA 8787

NOTE:

- a) IAA PROCEDURE FOR FAMILIARIZED AIRCREWS ONLY.
- b CIRCLING NOT AUTHORIZED WEST OF RWY 03/21.
- c HPMA



PESIM
48°23.95'N
010°41.23'E

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

RPI
48°11.69'N
010°52.13'E

IAF 'R'
48°25.51'N
010°55.90'E

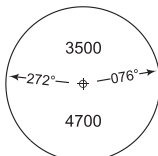
'S'
48°22.66'N
010°57.31'E

IAF 'Q'
48°18.80'N
010°58.05'E

FAF
48°16.36'N
010°56.01'E

**RESERVOIR
KÖNIGSBRUNN
CENTER OF DAM**
1623 ft MSL
48°15.98'N
010°56.22'E

MSA ARP 25 NM



EMERG SAFE ALT 100 NM 14800

ARA REFLECTORS



TA 5000

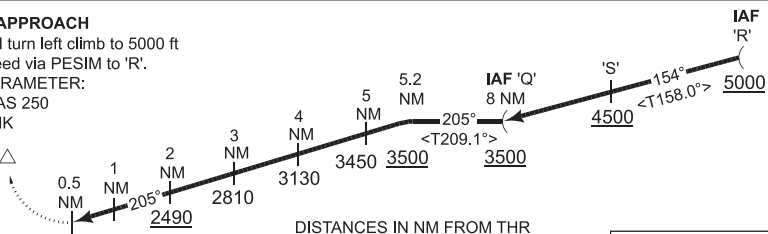
MISSED APPROACH

At 0.5 NM turn left climb to 5000 ft and proceed via PESIM to 'R'.

TURN PARAMETER:

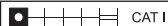
- MAX KIAS 250
- 20° BANK

PESIM



DISTANCES IN NM FROM THR

TDZE 1785



CAT I

CATEGORY	C	D	E
S-ARA/IAA 21	2220 - 1.1 398 (400-1.1/1.8)		
b CIRCLING	2490 - 3.1 668 (700-3.1)	c 2380 - 3.2 558 (600-3.2)	

CHANGE: VAR (044/26)

ARA/IAA RWY 21

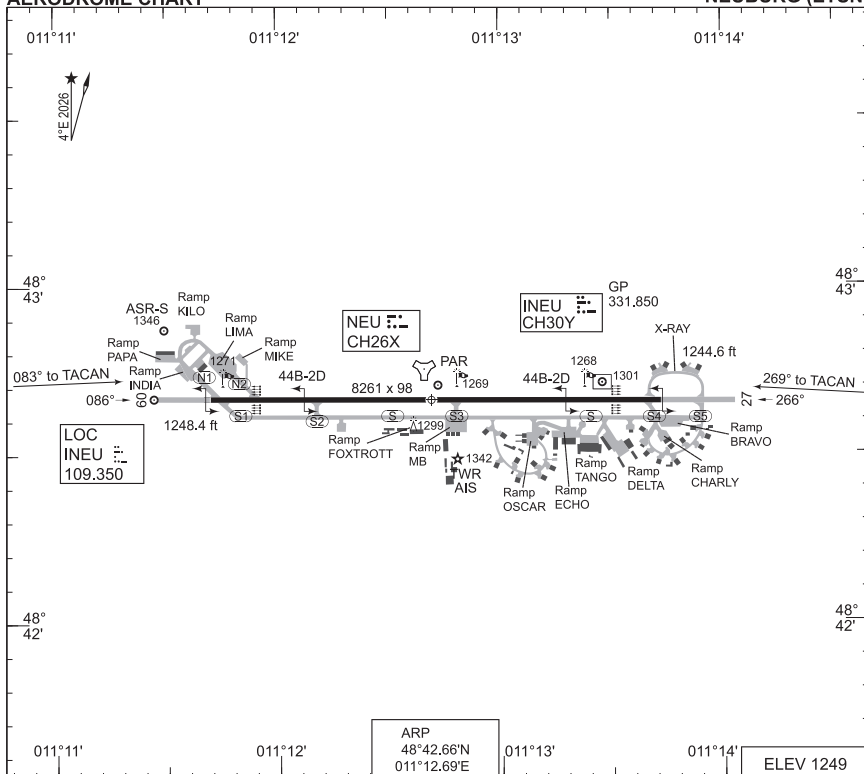
48°11.13'N
010°51.67'E

LECHFELD (ETSL)

ACC 16 APR 2026

AERODROME CHART

NEUBURG (ETSN)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN
09	62 R/B/W/T	8261	8261	8261	8150	3.0°	1249	48°42.67'N 011°11.70'E
27	62 R/B/W/T	8261	8261	8261	8261	3.0°	1247	48°42.65'N 011°13.72'E

DONAU TOWER 129.855 308.550
 DONAU RADAR 243.300 138.800x 291.050x 253.375x 290.700x 130.155 SSR 4220 - 4227

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	09	3.0°	52.5		1009	ABCDE	MIPS	1449 - 0.8 200 (200-0.8/1.2)
	PANS-OPS	27	3.0°	51.5		975	ABCDE	MIPS	1445 - 0.8 200 (200-0.8/1.2)

CHANGE: VAR (043/26)

ACC 16 APR 2026

AERODROME CHART

NEUBURG (ETSN)

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 1249

ETSN 1H - 2M
NEUBURG (ETSN)

DONAU TOWER 308.550 129.855	DONAU RADAR 243.300 130.155	MUENCHEN RADAR 242.200 VHF O/R
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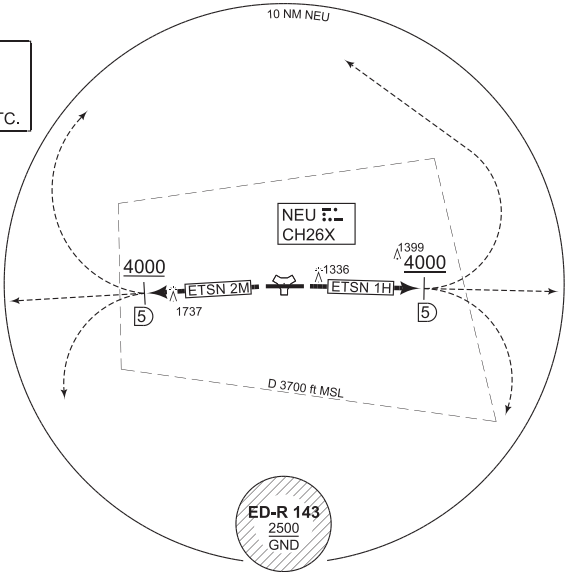
NOTE:	RWY	from - to	60	120	180	240	300	360	Reason
a) NO TURN BEFORE DER.	09	DER - 4000 ft	638	1276	1914	2552	3190	3828	ATC
b) NOT FOR FLIGHTPLAN PURPOSE.	27	DER - 4000 ft	631	1262	1893	2524	3155	3786	ATC



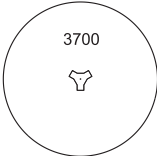
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



DONIX
48°41.60'N
010°45.27'E
NEU R-263/ 18 DME



MSA NEU 25 NM



EMERG SAFE ALT 100 NM 13500

TA 5000

ETSN 1H (RWY 09)	- Climb straight ahead to NEU/5 DME - Pass NEU/5 DME at 4000 ft or above - Continue as cleared by ATC
ETSN 2M (RWY 27)	- No turn before DER - Climb on track 263° to NEU/5 DME - Pass NEU/5 DME at 4000 ft or above - Continue as cleared by ATC

ETSN 1H - 2M

48°42.66'N
011°12.69'E

NEUBURG (ETSN)

PANS-OPS
INSTRUMENT DEPARTURE CHART

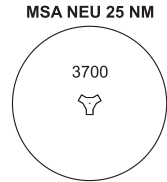
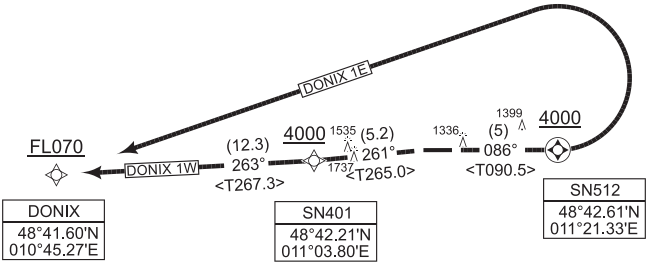
AD ELEV 1249

DONIX 1E - 1W
NEUBURG (ETSN)

DONAU TOWER 308.550 129.855 122.100			DONAU RADAR 243.300 130.155			MUENCHEN RADAR 242.200 136.525		
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NOTE:
a) SENSOR: GNSS ONLY.
b) DONIX 1E: CLOSE IN OBSTACLE:
SHELTER 210 M NE OF DER 1274 FT.
c) DONIX 1W: CLOSE IN OBSTACLE:
TREES 650 M SW OF DER 1349 FT.

RWY	From / to	60	120	180	240	300	360	Reason
09	DER - 4000 ft	550	1090	1630	2170	2710	3250	ATC
27	DER - 7000 ft	530	1050	1570	2100	2620	3140	ATC



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 13500

TA 5000

DONIX 1E (RWY 09)	- Climb on course 086° to <u>SN512</u> - Pass <u>SN512</u> at altitude 4000 ft or above - Turn left direct inbound DONIX and continue climb - Pass DONIX at FL070 or above <u>SN512</u> [M086;A4000+;L]→DONIX [F070+]
DONIX 1W (RWY 27)	- Climb on course 261° to SN401 - Pass SN401 at altitude 4000 ft or above - Continue climb on track 263° to DONIX - Pass DONIX at FL070 or above - SN401 [M261;A4000+] → DONIX [M263;F070+]

DONIX 1E - 1W

48°42.66'N
011°12.69'E

NEUBURG (ETSN)

CHANGE: VAR (043/26)

ACC 16 APR 2026

DONIX 1E

	CODING	DISPLAY
SN512	48 42 36.34 N 011 21 19.94 E	48 42.606 N 011 21.332 E
DONIX	48 41 36.00 N 010 45 16.20 E	48 41.600 N 010 45.270 E

DONIX 1W

	CODING	DISPLAY
SN401	48 42 12.32 N 011 03 47.81 E	48 42.205 N 011 03.797 E
DONIX	48 41 36.00 N 010 45 16.20 E	48 41.600 N 010 45.270 E

PANS-OPS INSTRUMENT APPROACH CHART

**TACAN RWY 09
NEUBURG (ETSN)**

AD ELEV 1249

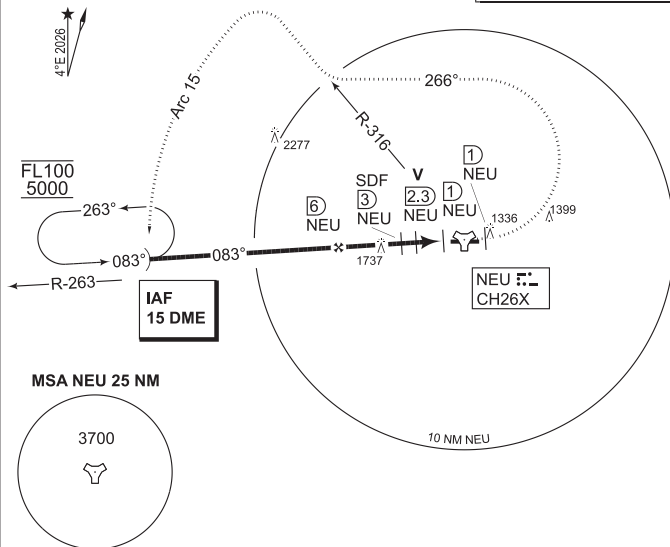
MUENCHEN RADAR 242.200		DONAU RADAR 243.300 130.155			DONAU TWR 308.550 129.855		
TACAN NEU CH26X	APP COURSE 083°	FAF ALT 2900	GS 3.0° / 5.2%	MDA 1830	TDZE 1249	ALS-LENGTH 911 M	LDA 8150

NOTE:

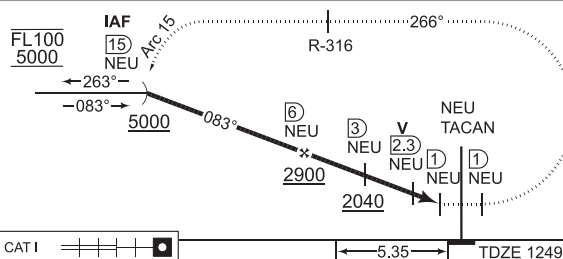
- a) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- b) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- c) CIRCLING CAT C MAX 170 KIAS.
- d) HPMA

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

IAF
48°41.93'N
010°50.05'E



EMERG SAFE ALT 100 NM 13500



MISSED APPROACH TA 5000

Climb straight ahead to 5000 ft. At NEU R-081/1 DME turn left on track 266° until intercepting NEU R-316. Proceed on NEU R-316 to 15 DME and turn left onto Arc 15. Continue inbound IAF and enter holding.

TCH 50

CAT I

5.35 TDZE 1249

CATEGORY	A	B	C	D
TACAN 09	1830 - 0.8 581 (600-0.8/1.6)		1830 - 1.6 581 (600 - 1.6/2.4)	1830 - 2.0 581 (600 - 2.0/2.8)
a) CIRCLING	1830 - 2.7 581 (600 - 2.7)	1900 - 3.0 651 (700 - 3.0)	2140 - 4.0 891 (900 - 4.0)	d) 2040 - 3.6 791 (800 - 3.6)
PAR 09	1449 - 0.8 200 (200-0.8/1.2)			

TACAN RWY 09

48°42.66'N
011°12.69'E

NEUBURG (ETSN)

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 1249

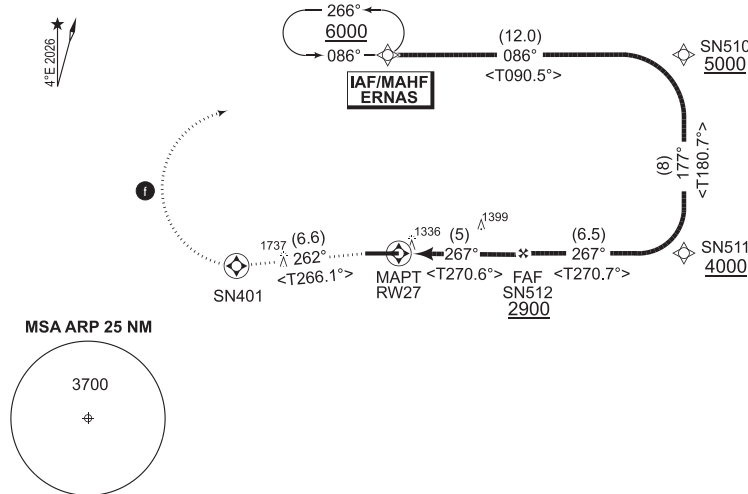
RNP RWY 27
NEUBURG (ETSN)

MÜNCHEN RADAR 242.200 136.525		DONAU RADAR 243.300 130.155 123.300		DONAU TOWER 308.550 129.855 122.100		
APP COURSE 267°	FAF ALT 2900	GS 3° / 5.2%	DA/MDA See CAT	THR ELEV 1245	ALS-LENGTH 858 M	LDA 8261

NOTE:

- a) SENSOR: GNSS ONLY
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- c) CIRCLING CAT C 170 KIAS.
- d) BARO VNAV NOT AUTHORIZED BELOW -30°C.
- e) HPMa.
- f) MISSED APPROACH LIMITED TO 230 KIAS MAX.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

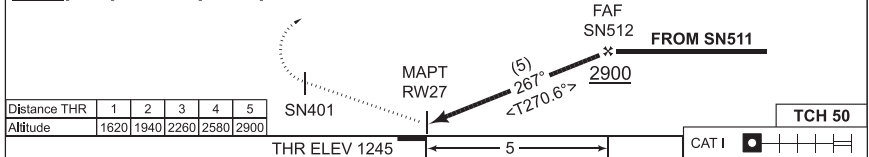


EMERG SAFE ALT 100 NM 13500

MISSED APPROACH

TA 5000

Climb on course 262° to SN401.
Turn right direct to ERNAS.
Climb to 6000 ft or above.
SN401[M262];→ERNAS [A6000+].



CATEGORY	A	B	C	D
LNAV	1600 - 0.8 355 (400-0.8/1.6)		1600 - 1.2 355 (400-1.2/1.6)	1600 - 1.2 355 (400-1.2/2.0)
LNAV/VNAV	1495 - 0.8/550 250 (300-0.8/1.3)		1502 - 0.8/600 257 (300-0.8/1.3)	1513 - 0.8/600 268 (300-0.8/1.3)
b CIRCLING	1740 - 2.3 491 (500-2.3)	1900 - 3.0 651 (700-3.0)	c 2140 - 4.0 891 (900-4.0)	e 2040 - 3.6 791 (800-3.6)

RNP RWY 27

48°42.66'N
011°12.69'E

NEUBURG (ETSN)

RNP RWY 27 FROM ERNAS:

	CODING	DISPLAY
ERNAS (IAF)	48 50 40.81 N 011 13 09.67 E	48 50.680 N 011 13.161 E
SN510 (TF)	48 50 33.05 N 011 31 17.92 E	48 50.551 N 011 31.299 E
SN511 (IF)	48 42 31.85 N 011 31 08.74 E	48 42.531 N 011 31.146 E
SN512 (FAF)	48 42 36.34 N 011 21 19.94 E	48 42.606 N 011 21.332 E
RW27 (MAPT)	48 42 39.24 N 011 13 43.23 E	48 42.654 N 011 13.720 E
SN401 (CF)	48 42 12.32 N 011 03 47.81 E	48 42.205 N 011 03.797 E
ERNAS (MAHF)	48 50 40.81 N 011 13 09.67 E	48 50.680 N 011 13.161 E

Threshold Coordinates

	CODING	DISPLAY
RWY 27	48 42 39.24 N 011 13 43.23 E	48 42.654 N 011 13.720 E

PANS-OPS INSTRUMENT APPROACH CHART

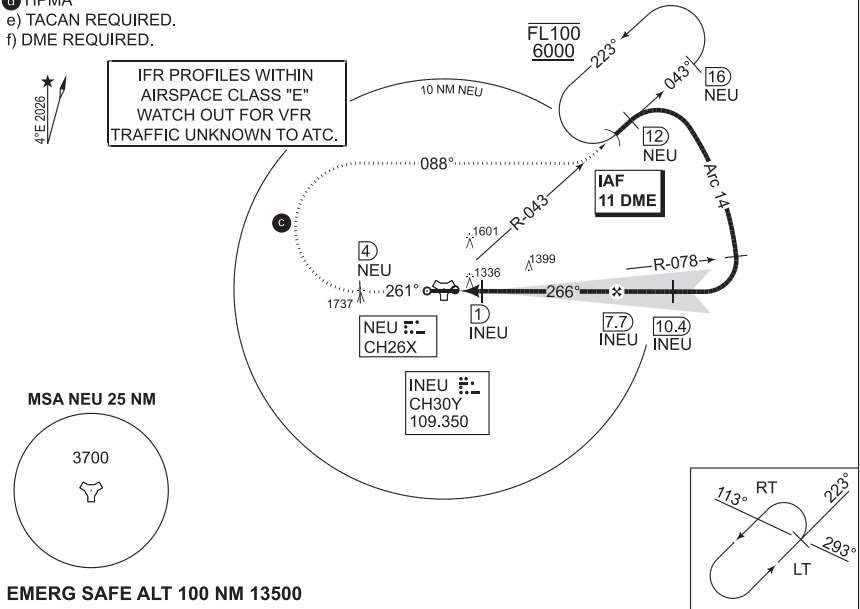
ILS or LOC RWY 27
NEUBURG (ETSN)

MUENCHEN RADAR 242.200	DONAU RADAR 243.300 130.155		DONAU TOWER 308.550 129.855	
TACAN/LOC NEU CH26X/INEU 109.350	APP COURSE 266°	GS INTCP ALT 3700	GS 3.0° / 5.2%	DA See CAT
			TDZE 1247	ALS-LENGTH 858 M
				LDA 8261

NOTE:

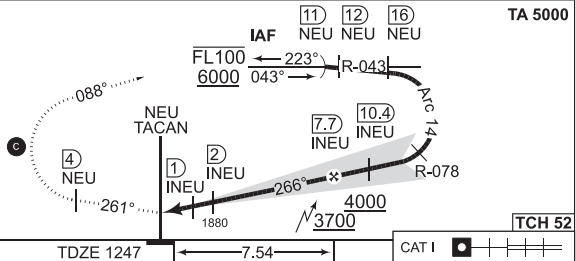
- a) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- b) CIRCLING CAT C 170 KIAS MAX.
- c) MISSED APPROACH TURN LIMITED TO 230 KIAS MAX.
- d) HPMA
- e) TACAN REQUIRED.
- f) DME REQUIRED.

IAF
48°50.24'N
011°24.84'E



MISSED APPROACH

Climb on track 261° to 6000 ft. At NEU 4 DME turn right on track 088° to intercept NEU R-043 inbound IAF and enter holding.



CATEGORY	A	B	C	D
ILS RWY 27	1445 - 0.8 200 (200-0.8/1.2)			
LOC RWY 27	1520 - 0.8 271 (300-0.8/1.6)	1550 - 0.8 301 (300-0.8/1.6)	1570 - 1.2 321 (400-1.2/1.6)	1590 - 1.2 341 (400-1.2/2.0)
a) CIRCLING	1740 - 2.3 491 (500-2.3)	1900 - 3.0 651 (700-3.0)	b) 2140 - 4.0 891 (900-4.0)	d) 2040 - 3.6 791 (800-3.6)

ILS or LOC RWY 27

48°42.66'N
011°12.69'E

NEUBURG (ETSN)

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 1249

TACAN RWY 27
NEUBURG (ETSN)

MUENCHEN RADAR 242.200			DONAU RADAR 243.300 130.155			DONAU TOWER 308.550 129.855		
TACAN NEU CH26X	APP COURSE 269°	FAF ALT 2900	DESCENT GR 5.2%	MDA 1600	TDZE 1247	ALS-LENGTH 858 M	LDA 8261	

CAUTION:

a) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.

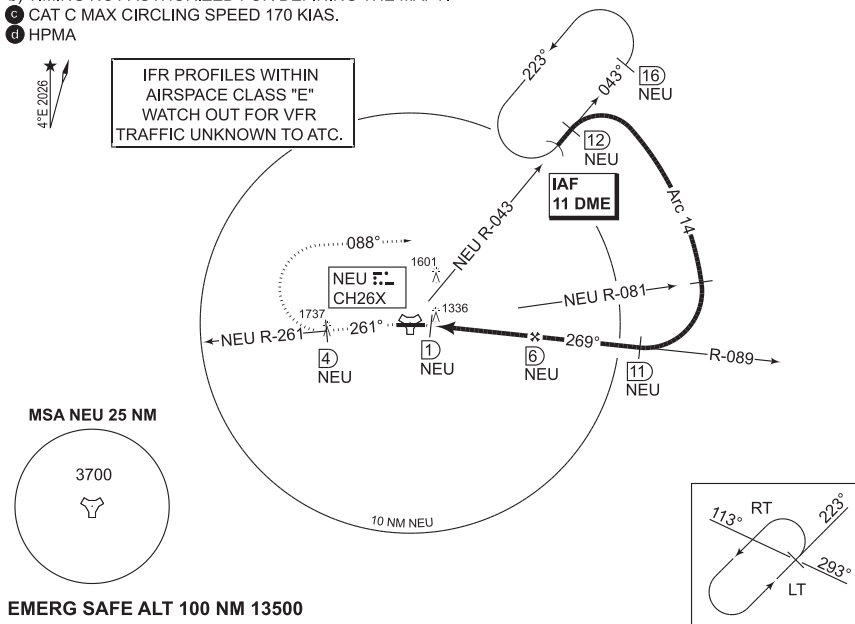
NOTE:

b) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.

c) CAT C MAX CIRCLING SPEED 170 KIAS.

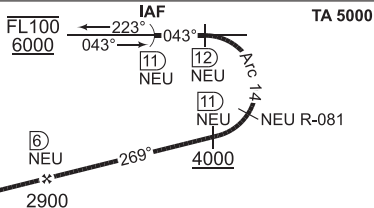
d) HPMA

IAF
48°50.24'N
011°24.84'E



MISSED APPROACH

When passing MAPT continue inbound NEU TACAN. Overhead NEU turn left to proceed on NEU R-261 outbound and climb to 6000 ft. When passing NEU 4 DME turn right on track 088° until intercepting NEU R-043. On NEU R-043 enter holding.



TCH 50

TDZE 1247

5.29

CAT I

|||||

MPS	CATEGORY	A	B	C	D
	TACAN 27	1600 - 0.8 355 (400-0.8/1.6)		1600 - 1.2 355 (400-1.2/1.6)	1600 - 1.2 355 (400-1.2/2.0)
	a) CIRCLING	1740 - 2.3 491 (500-2.3)	1900 - 3.0 651 (700-3.0)	c) 2140 - 4.0 891 (900-4.0)	d) 2040 - 3.6 791 (800-3.6)
	PAR 27	1445 - 0.8 200 (200-0.8/1.2)			

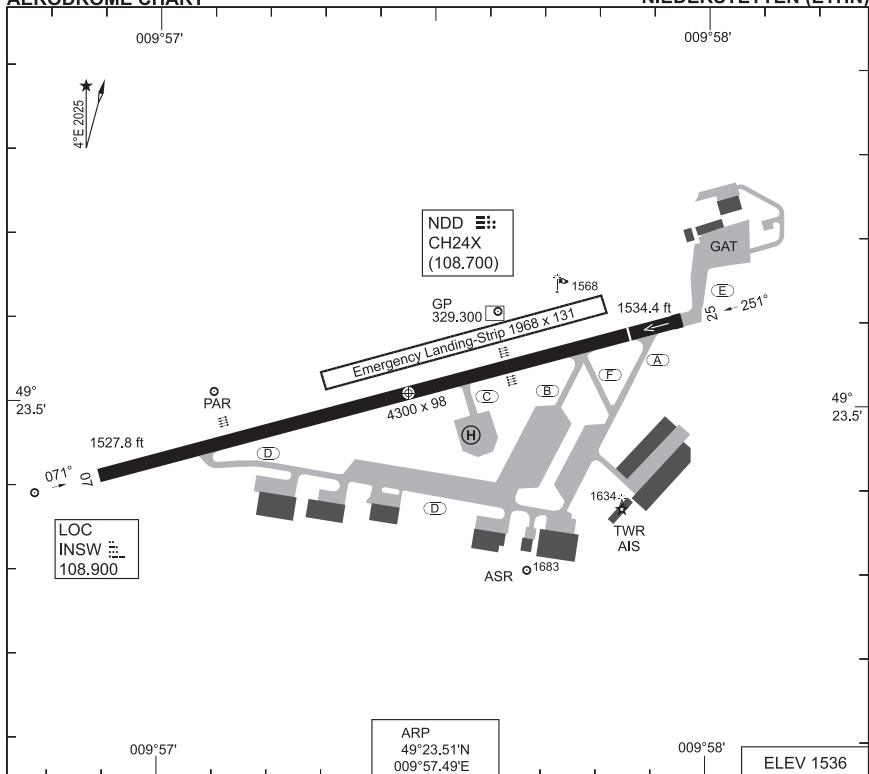
TACAN RWY 27

48°42.66'N
011°12.69'E

NEUBURG (ETSN)

AERODROME CHART

NIEDERSTETTEN (ETHN)



RWY	LCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN
07	55	4300	4362	4936	4300	3.0°	1536	49°23.41'N 009°56.93'E
25	55	4300	4300	4497	3969	3.4°	1536	49°23.58'N 009°57.89'E
STETTEN TOWER		356.675	122.100	134.205				
STETTEN RADAR		343.575	269.250	127.190	123.300	SSR 6130 - 6137		
	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA
PAR	TERPS	25	3.4°	49		825	AB C	TERPS 1734 - 0.8 200 (200-0.8/1.2) 1734 - 1.2 200 (200-1.2)
SRA	TERPS	07					AB C	TERPS 1940 - 1.6 404 (500-1.6) 1940 - 2.0 404 (500-2.0)
	TERPS	255					COPTER	TERPS 1900 - 0.4 366 (400-0.4/0.8)

CHANGE: EDITORIAL (183/25)

ACC 19 FEB 2026

AERODROME CHART

NIEDERSTETTEN (ETHN)

TERPS
INSTRUMENT DEPARTURE CHART

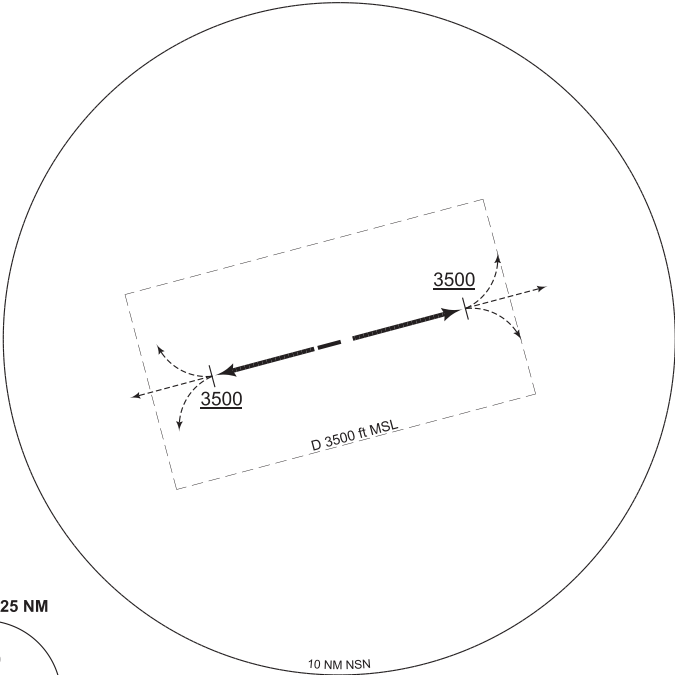
AD ELEV 1536

HN 107 - 125
NIEDERSTETTEN (ETHN)

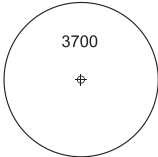
STETTEN TOWER			STETTEN RADAR			LANGEN RADAR				
134.205	356.675	122.100	269.250	127.190	123.300	398.650	135.725			
			RWY	Knots	60	120	180	240	300	to
			07	V/V (fpm)	370	740	1110	1480	1850	3500 ft
			25	V/V (fpm)	401	802	1203	1604	2005	3500 ft



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA ARP 25 NM



EMERG SAFE ALT 100 NM 6400

TA 5000

HN 107 (RWY 07)	- Departure end crossing altitude 1570 ft MSL - Climb straight ahead to 3500 ft - Continue as cleared by ATC
HN 125 (RWY 25)	- Departure end crossing altitude 1570 ft MSL - Climb straight ahead to 3500 ft - Continue as cleared by ATC

HN 107 - 125

49°23.51'N
009°57.49'E

NIEDERSTETTEN (ETHN)

CHANGE EDITORIAL (07/9/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

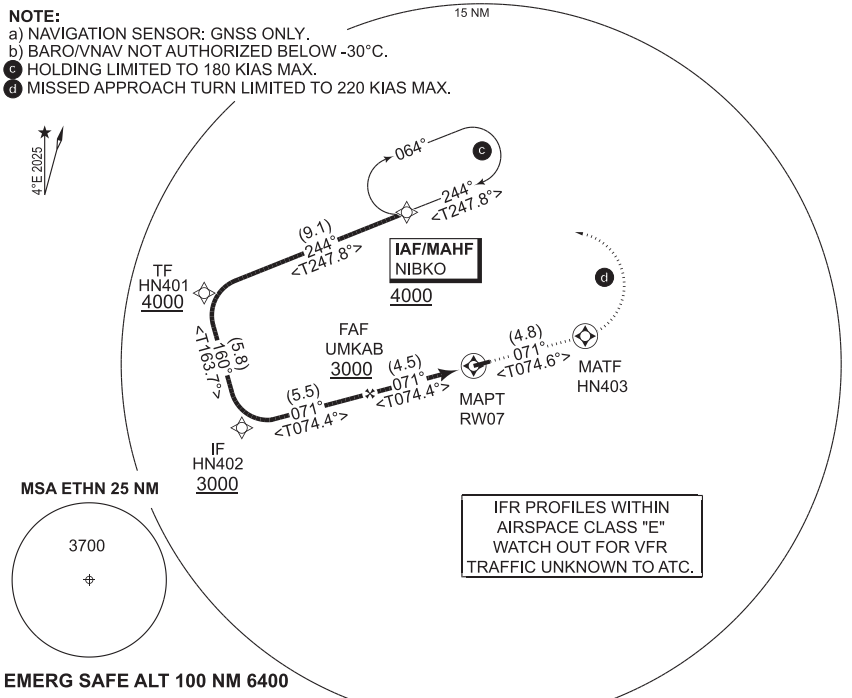
AD ELEV 1536

RNP RWY 07
NIEDERSTETTEN (ETHN)

LANGEN RADAR 314.950 135.725		STETTEN RADAR 269.250 127.190		STETTEN TOWER 134.205 356.675 122.100		
APP COURSE 071°	FAF ALT 3000	DESCENT GR 3.0° / 5.24%	MDA / DA See CAT	THR ELEV 1528	ALS-LENGTH -	LDA 4300

NOTE:

- a) NAVIGATION SENSOR: GNSS ONLY.
- b) BARO/VNAV NOT AUTHORIZED BELOW -30°C.
- c) HOLDING LIMITED TO 180 KIAS MAX.
- d) MISSED APPROACH TURN LIMITED TO 220 KIAS MAX.

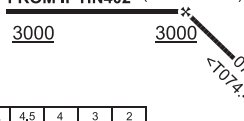


TA 5000

MISSED APPROACH

Climb on course 071° to HN403; turn left direct to NIBKO, climb to 4000 ft.
HN403 [M071,L]→ NIBKO [A4000+]

FROM IF HN402 (LNAV ONLY)
3000 3000



Dist THR	4,5	4	3	2
Altitude	3000	2850	2530	2220

4.47 THR ELEV 1528

TCH 50

NO LIGHTS

CATEGORY	A	B	C	D
LNAV	1940 - 1.5 412 (500-1.5)		1940 - 1.9 412 (500-1.9)	NOT AUTHORIZED
LNAV / VNAV	1778 - 1.3 250 (300-1.3)		1797 - 1.3 269 (300-1.3)	NOT AUTHORIZED
CIRCLING	1980 - 2.1 444 (500-2.1)	2030 - 2.3 494 (500-2.3)	2130 - 2.7 594 (600-2.7)	NOT AUTHORIZED

RNP RWY 07

49°23.51'N
009°57.49'E

NIEDERSTETTEN (ETHN)

RNP RWY 07 FROM NIBKO:

	CODING	DISPLAY
NIBKO (IAF)	49 29 47.08 N 009 52 34.54 E	49 29.785 N 009 52.576 E
HN401 (TF)	49 26 20.19 N 009 39 41.07 E	49 26.336 N 009 39.684 E
HN402 (IF)	49 20 44.74 N 009 42 10.87 E	49 20.746 N 009 42.181 E
UMKAB (FAF)	49 22 13.43 N 009 50 19.96 E	49 22.224 N 009 50.333 E
RW07 (MAPT)	49 23 24.71 N 009 56 55.69 E	49 23.412 N 009 56.928 E
HN403 (MATF)	49 24 41.02 N 010 04 02.16 E	49 24.684 N 010 04.036 E
NIBKO (MAHF)	49 29 47.08 N 009 52 34.54 E	49 29.785 N 009 52.576 E

Threshold Coordinates

RWY 07	49 23 24.71 N 009 56 55.69 E	49 23.412 N 009 56.928 E
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PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 1536

RNP RWY 25
NIEDERSTETTEN (ETHN)

LANGEN RADAR 314.950 135.725		STETTEN RADAR 269.250 127.190		STETTEN TOWER 134.205 356.675 122.100		
APP COURSE 251°	FAF ALT 3000	DESCENT GR 3.4° / 5.9%	MDA / DA See CAT	THR ELEV 1535	ALS-LENGTH 600 M	LDA 3969

CAUTION:

a) ABOVE 20°C THE VPA IS AT OR ABOVE 3.5° / 6.1%.

NOTE:

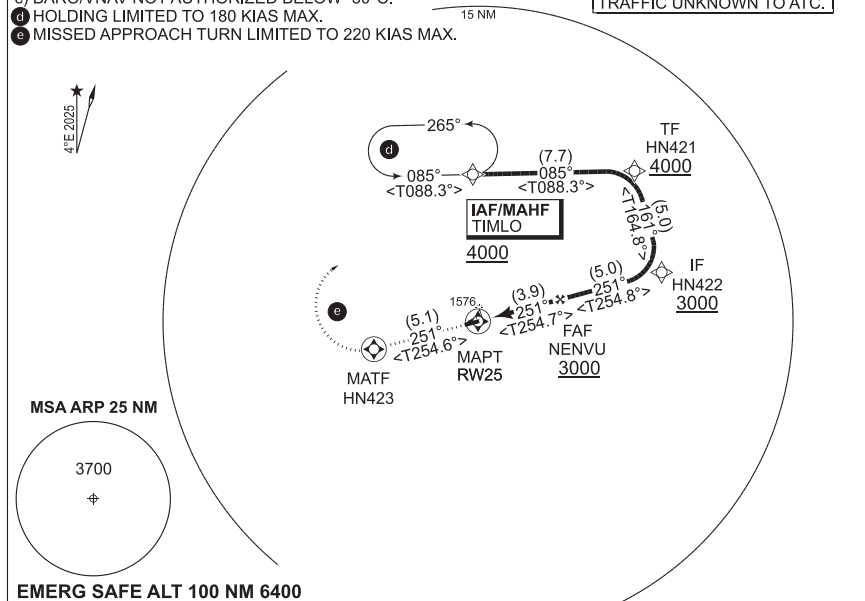
b) NAVIGATION SENSOR: GNSS ONLY.

c) BARO/VNAV NOT AUTHORIZED BELOW -30°C.

d) HOLDING LIMITED TO 180 KIAS MAX.

e) MISSED APPROACH TURN LIMITED TO 220 KIAS MAX.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 6400

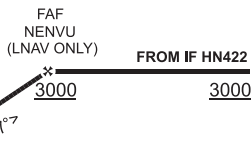
MISSED APPROACH

Climb on course 251° to HN423.
turn right direct to TIMLO, climb to 4000 ft.
HN423 [M252, R] → TIMLO [A4000+]

TA 5000

Dist THR	1	2	3	4
Altitude	1930	2290	2630	3000

THR ELEV 1535



TCH 50

CAT I

MPS	CATEGORY	A	B	C	D
	LNAV	1930 - 1.1 395 (400-1.1/1.5)		1930 - 1.1 395 (400-1.1/1.8)	NOT AUTHORIZED
	LNAV / VNAV	1807 - 0.8 600 272 (300-0.8/1.3)	1820 - 0.8 650 285 (300-0.8/1.4)	1843 - 0.8 700 308 (400-0.8/1.4)	NOT AUTHORIZED
	CIRCLING	1980 - 2.1 444 (500-2.1)	2030 - 2.3 494 (500-2.3)	2130 - 2.7 594 (600-2.7)	NOT AUTHORIZED

RNP RWY 25

49°23.51'N
009°57.49'E

NIEDERSTETTEN (ETHN)

RNP RWY 25 FROM TIMLO:

	CODING	DISPLAY
TIMLO (IAF)	49 30 34.38 N 009 57 25.96 E	49 30.573 N 009 57.433 E
HN421 (TF)	49 30 47.39 N 010 09 15.17 E	49 30.790 N 010 09.253 E
HN422 (IF)	49 25 58.16 N 010 11 15.87 E	49 25.969 N 010 11.265 E
NENVU (FAF)	49 24 37.17 N 010 03 40.90 E	49 24.620 N 010 03.682 E
RW25 (MAPT)	49 23 35.08 N 009 57 53.54 E	49 23.585 N 009 57.892 E
HN423 (MATF)	49 22 13.23 N 009 50 19.15 E	49 22.220 N 009 50.319 E
TIMLO (MAHF)	49 30 34.38 N 009 57 25.96 E	49 30.573 N 009 57.433 E

Threshold Coordinates

RWY 25	49 23 35.08 N 009 57 53.54 E	49 23.585 N 009 57.892 E
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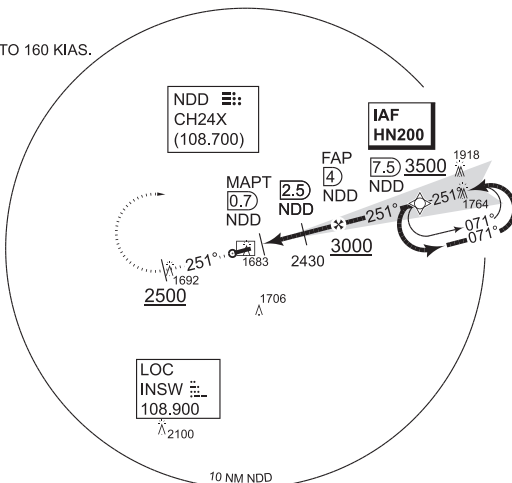
**ILS or LOC RWY 25
NIEDERSTETTEN (ETHN)**

LANGEN RADAR		STETTEN RADAR			STETTEN TOWER		
398.650 135.725		269.250 123.300 127.190			134.205 356.675 122.100		
DME / LOCALIZER	APP COURSE	GS INTCP ALT	GS	DA/MDA	THR ELEV	ALS-LENGTH	LDA
NDD CH24X / INSW 108.9	251°	3000	3.4°	See CAT	1535	600 M	3969

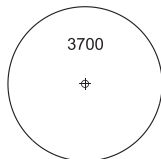
NOTE:

- a) DME REQUIRED.
b) GNSS REQUIRED.
c) PROCEDURE LIMITED TO 160 KIAS.

IAF
49°25.52'N
010°08.75'E



MSA ARP 25 NM



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 6400

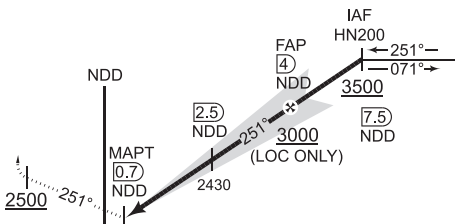
MISSED APPROACH

Climb on course 251° to 3500 ft.

When passing 2500 ft, turn right

inbound HN200.

[M251,A2500+:R]→HN200[3500+]



Dist THR	1	2	3	4
Altitude	1950	2310	2670	3000

THR ELEV 1535

TCH 49

GAT	☒			
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CATEGORY		A	B	C
MIPS	ILS 25	1735 - 0.8/750 200 (200-0.8/1.2)		
	LOC 25	1930 - 1.4 395 (400-1.4/1.5)		1930 - 1.4/395 (400-1.4/1.8)
	CIRCLING	1980 - 2.1 444 (500-2.1)	2030 - 2.3 494 (500-2.3)	2130 - 2.7 594 (600-2.7)

CHANGE: EDITORIAL (183/25)

ACC 19 FEB 2026

ILS or LOC RWY 25

49°23.51'N
009°57.49'E

NIEDERSTETTEN (ETHN)

PANS-OPS
INSTRUMENT APPROACH CHART

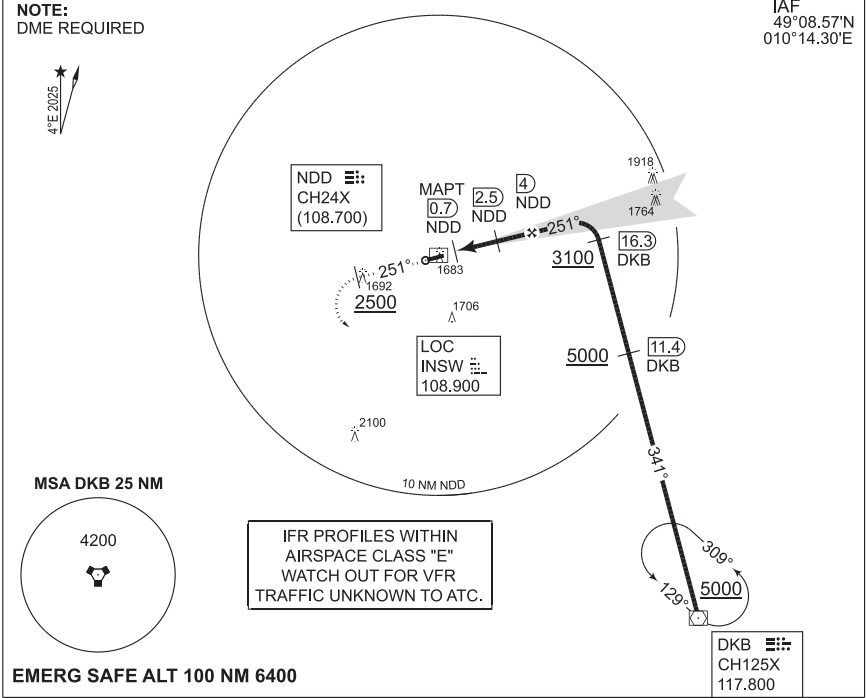
AD ELEV 1536

COPTER ILS or LOC RWY 25
NIEDERSTETTEN (ETHN)

LANGEN RADAR		STETTEN RADAR			STETTEN TOWER		
398.650 135.725		269.250 123.300 127.190			134.205 356.675 122.100		
DME	APP COURSE	GS INTCP ALT	GS	DA	TDZE	ALS-LENGTH	LDA
NDD CH24X	251°	3000	3.4° / 5.9%	1735	1535	600 M	3969

NOTE:
DME REQUIRED

IAF
49°08.57'N
010°14.30'E

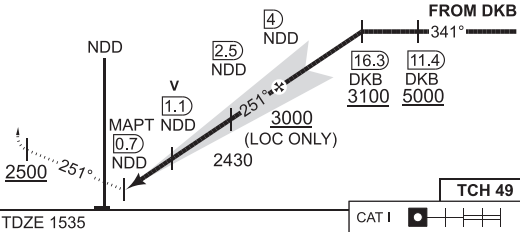


MISSED APPROACH

Climb on course 251° to altitude 5000 ft. When passing 2500 ft turn left inbound VORTAC DKB.

TA 5000

FROM DKB



CATEGORY	COPTER
H-ILS Y 25	1735 - 0.8/750 200 (200-0.8/1.2)
H-LOC Y	1910 - 0.8 375 (400-0.8/1.6)

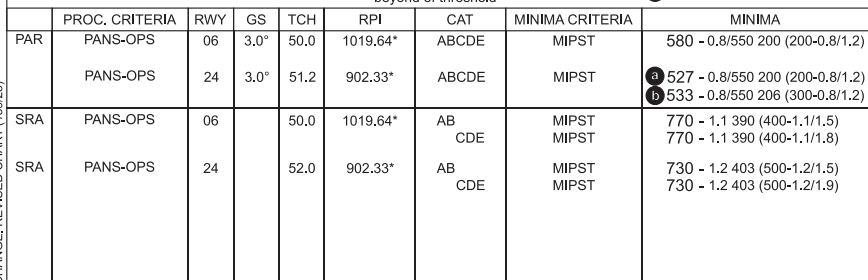
COPTER ILS or LOC RWY 25

49°23.51'N
009°57.49'E

NIEDERSTETTEN (ETHN)

CHANGE: EDITORIAL (183/25)

ACC 19 FEB 2026

NOERVENICH (ETNN)

ACC 25 DEC 2025

NOERVENICH (ETNN)

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 380

NN 106 - 124
NOERVENICH (ETNN)

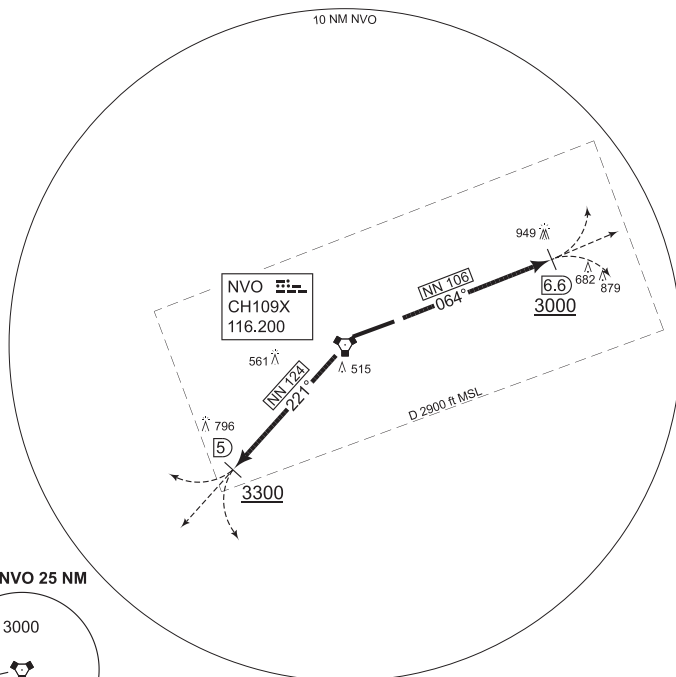
LANGEN RADAR			NOERVENICH RADAR			NOERVENICH TOWER					
344.550	399.575	135.350	281.675	129.055		285.075	136.205	122.100			
			RWY	from - to	60	120	180	240	300	360	Reason
			06	DER - 3000	533	1066	1599	2132	2665	3198	ATC
NOTE:			24	DER - 3300	522	1044	1566	2088	2610	3132	ATC

NOTE:

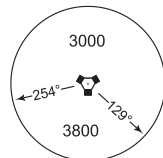
NO TURN BEFORE DER



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA NVO 25 NM



EMERG SAFE ALT 100 NM 4200

TA 5000

NN 106 (RWY 06)	- Climb straight ahead - Reach 3000 ft within NVO/6.6 DME - When passing 3000 ft continue as cleared by ATC
NN 124 (RWY 24)	- Climb and turn left to intercept NVO R-221 - Reach 3300 ft within NVO/5 DME - When passing 3300 ft continue as cleared by ATC

NN 106 - 124

50°49.87'N
006°39.49'E

NOERVENICH (ETNN)

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 380

NN 224
NOERVENICH (ETNN)

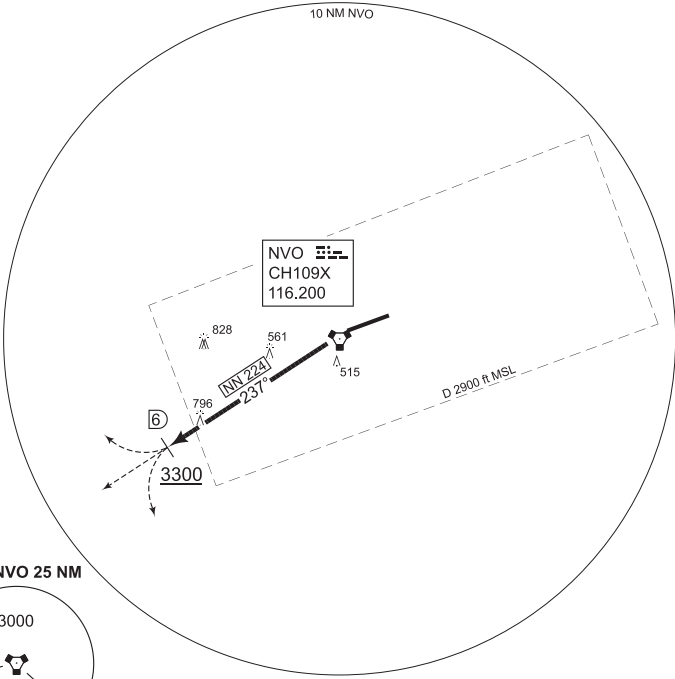
LANGEN RADAR			NOERVENICH RADAR			NOERVENICH TOWER				
344.550	399.575	135.350	281.675	129.055		285.075	136.205	122.100		
			RWY	from - to	60	120	180	240	300	360
			24	DER - 3300	456	912	1370	1827	2342	2740
						Reason				
						ATC				

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 4200

TA 5000

NN 224
(RWY 24)

- Climb on track 237°.
- Reach 3300 ft within NVO/6 DME.
- When passing 3300 ft continue as cleared by ATC.

NN 224

50°49.87'N
006°39.49'E

NOERVENICH (ETNN)

PANS-OPS
INSTRUMENT APPROACH CHART

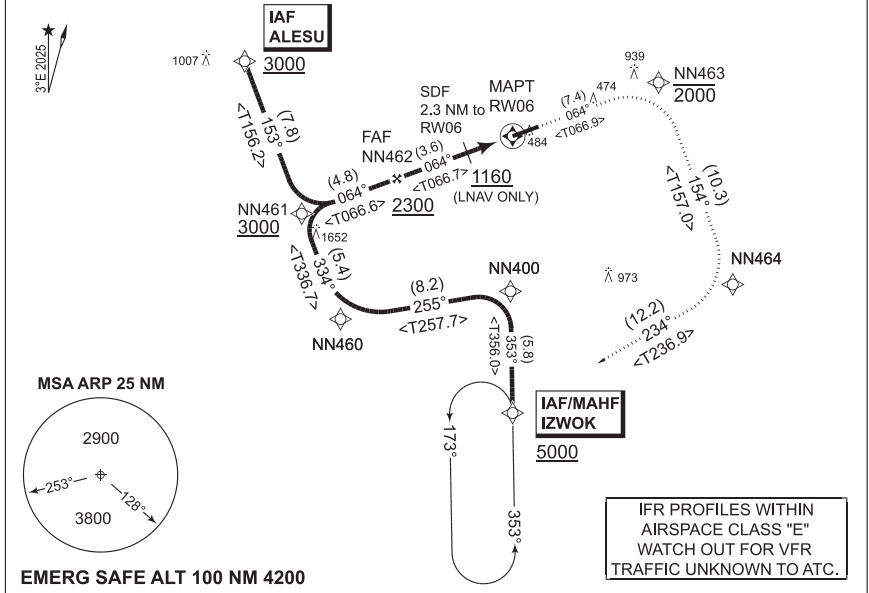
AD ELEV 380

RNP RWY 06
NOERVENICH (ETNN)

LANGEN RADAR 344.550 135.350		NOERVENICH RADAR 281.675 129.055 123.300			NOERVENICH TOWER 285.075 136.205 122.100		
APP COURSE 064°	FAF ALT 2300	DESCENT GR 3.0° / 5.2%	DA/MDA see CAT	THR ELEV 380	ALS-LENGTH 1226 M	LDA 8010	

NOTE:

- a) NAVIGATION SENSOR: GNSS ONLY.
- b) NAVIGATION SPECIFICATION: RNAV 1 UNTIL NN461, RNP APCH THEREAFTER.
- c) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
- d) HPMA



TA 5000					
FROM IF NN461					
FAF NN462 2300					
SDF 2.3 NM to RW06					
MAPT RW06 1160 (RNAV ONLY)					
THR ELEV 380					
TCH 50					

CATEGORY	A	B	C	D
RNAV	770 - 1.1 390 (400-1.1/1.5)		770 - 1.1 390 (400-1.1/1.8)	
RNAV/VNAV	642 - 0.8/600 262 (300-0.8/1.3)	654 - 0.8/600 274 (300-0.8/1.3)	663 - 0.8/650 283 (300-0.8/1.4)	673 - 0.8/650 293 (300-0.8/1.4)
CIRCLING	810 - 2.0 430 (500-2.0)	950 - 2.6 570 (600-2.6)	1400 - 4.9 1020 (1100-4.9)	1300 - 4.3 920 (1000-4.3)

RNP RWY 06

50°19.87'N
006°39.49'E

NOERVENICH (ETNN)

RNP RWY 06 FROM IZWOK:

	CODING	DISPLAY
IZWOK (IAF)	50 36 27.38 N 006 39 36.93 E	50 36.456 N 006 39.616 E
NN400	50 42 14.15 N 006 38 58.75 E	50 42.236 N 006 38.979 E
NN460	50 40 28.67 N 006 26 22.27 E	50 40.478 N 006 26.371 E
NN461 (IF)	50 45 23.27 N 006 23 01.94 E	50 45.388 N 006 23.032 E
NN462 (FAF)	50 47 18.02 N 006 30 01.57 E	50 47.300 N 006 30.026 E
RW06 (MAPT)	50 49 36.83 N 006 38 31.86 E	50 49.614 N 006 38.531 E
NN463	50 52 31.25 N 006 49 17.49 E	50 52.521 N 006 49.292 E
NN464	50 43 05.78 N 006 55 36.23 E	50 43.096 N 006 55.604 E
IZWOK (MAHF)	50 36 27.38 N 006 39 36.93 E	50 36.456 N 006 39.616 E

RNP RWY 06 FROM ALESU:

	CODING	DISPLAY
ALESU (IAF)	50 52 28.58 N 006 18 06.19 E	50 52.476 N 006 18.103 E
NN461 (IF)	50 45 23.27 N 006 23 01.94 E	50 45.388 N 006 23.032 E
NN462 (FAF)	50 47 18.02 N 006 30 01.57 E	50 47.300 N 006 30.026 E
RW06 (MAPT)	50 49 36.83 N 006 38 31.86 E	50 49.614 N 006 38.531 E
NN463	50 52 31.25 N 006 49 17.49 E	50 52.521 N 006 49.292 E
NN464	50 43 05.78 N 006 55 36.23 E	50 43.096 N 006 55.604 E
IZWOK (MAHF)	50 36 27.38 N 006 39 36.93 E	50 36.456 N 006 39.616 E

Threshold Coordinates

RWY 06	50 49 36.83 N 006 38 31.86 E	50 49.614 N 006 38.531 E
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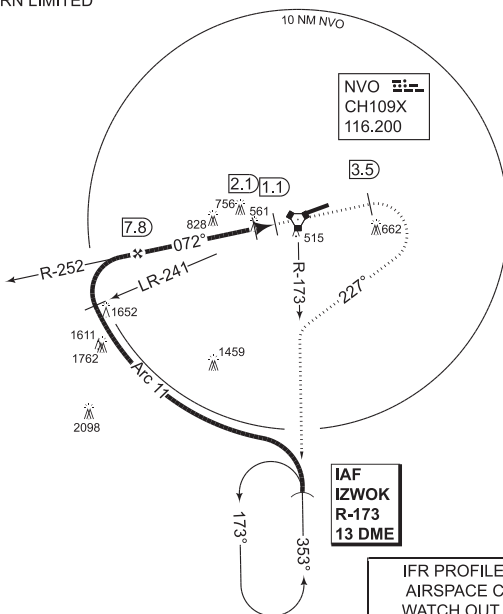
TACAN RWY 06
NOERVENICH (ETNN)

LANGEN RADAR		NOERVENICH RADAR			NOERVENICH TOWER		
344.550	135.350	281.675	129.055	123.300	285.075	136.205	122.100
TACAN NVO CH 109X	APP COURSE 072°	FAF ALT 3000	DESCENT GR 5.2%	MDA 780	THR ELEV 380	ALS-LENGTH 1226 M	LDA 8010

a) MISSED APPROACH TURN LIMITED TO 250 KIAS MAXIMUM.

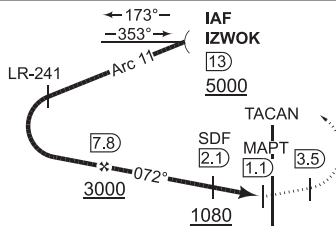
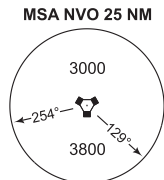
(b) HPMA

IAF
50°36.41'N
006°39.62'E



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 4200



TA 5000

MISSED APPROACH

Climb on Track 072°
to 5000 ft. At NVO/3.5
DME turn right on
track 227° to intercept
NVO R-173 inbound
IAF and enter
Holding.

TCH 50

CAT I

—807—

THR F1 FV 380

CATEGORY		A	B	C	D	E
MIPS	TACAN 06	780 - 1.1 400 (400-1.1/1.8)				
	CIRCLING	810 - 2.0 430 (500-2.0)	950 - 2.6 570 (600-2.6)	1400 - 4.9 1020 (1100-4.9)	b 1300 - 4.3 920 (1000-4.3)	

CHANGE: REVISED CHART (159/25)

ACG 25 DEC 2025

TACAN RWY 06

50°49.87'N
006°39.49'E

NOERVENICH (ETNN)

PANS-OPS
INSTRUMENT APPROACH CHART

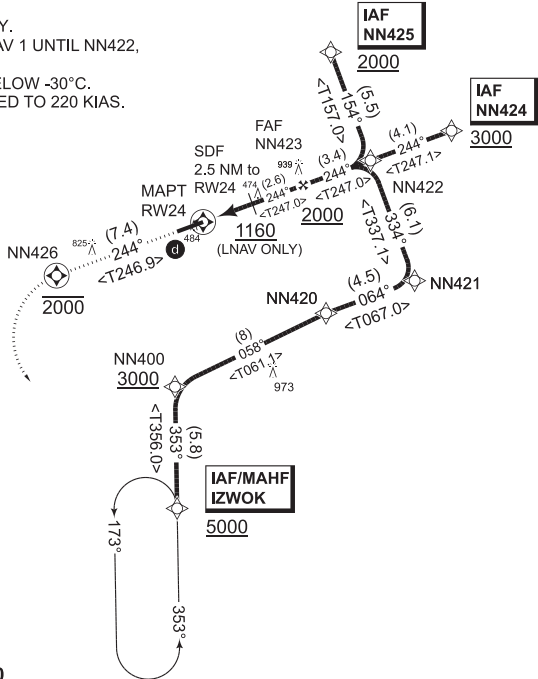
AD ELEV 380

RNP RWY 24
NOERVENICH (ETNN)

LANGEN RADAR 344.550 135.350		NOERVENICH RADAR 281.675 129.055 123.300			NOERVENICH TOWER 285.075 136.205 122.100		
APP COURSE 244°	FAF ALT 2000	DESCENT GR 3.0° / 5.2%	DA/MDA see CAT	THR ELEV 327	ALS-LENGTH 1215 M	LDA 8010	

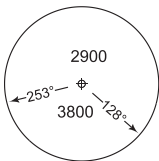
NOTE:

- a) NAVIGATION SENSOR: GNSS ONLY.
- b) NAVIGATION SPECIFICATION: RNAV 1 UNTIL NN422, RNP APCH THEREAFTER.
- c) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
- d) MISSED APPROACH SPEED LIMITED TO 220 KIAS.
- e) HPMA



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

MSA ARP 25 NM



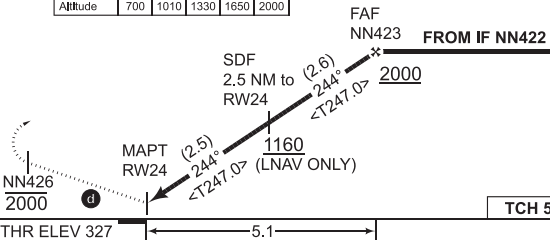
EMERG SAFE ALT 100 NM 4200

MISSED APPROACH

Climb on track 244° to NN426 at or below 2000 ft. Turn left direct to IZWOK. Climb to 5000 ft.
NN426 [M244; A2000-; K220-; L]→IZWOK [A5000+]

Dist THR	1	2	3	4	5.1
Altitude	700	1010	1330	1650	2000

TA 5000



CAT I

THR ELEV 327

TCH 50

CATEGORY	A	B	C	D
LNAV	660 - 0.8 333 (400-0.8/1.5)	680 - 0.9 353 (400-0.9/1.5)	700 - 1.0 373 (400-1.0/1.7)	720 - 1.1 393 (400-1.1/1.8)
LNAV/VNAV c	577 - 0.8/550 250 (300-0.8/1.3)	587 - 0.8/600 260 (300-0.8/1.3)	607 - 0.8/600 280 (300-0.8/1.3)	634 - 0.8/700 307 (400-0.8/1.4)
CIRCLING	810 - 2.0 430 (500-2.0)	950 - 2.6 570 (600-2.6)	1400 - 4.9 1020 (1100-4.9)	e 1300 - 4.3 920 (1000-4.3)

RNP RWY 24

50°19.87'N
006°39.49'E

NOERVENICH (ETNN)

RNP RWY 24 FROM IZWOK:

	CODING	DISPLAY
IZWOK (IAF)	50 36 27.38 N 006 39 36.93 E	50 36.456 N 006 39.616 E
NN400	50 42 14.15 N 006 38 58.75 E	50 42.236 N 006 38.979 E
NN420	50 46 05.67 N 006 50 00.88 E	50 46.094 N 006 50.015 E
NN421	50 47 51.00 N 006 56 32.51 E	50 47.850 N 006 56.542 E
NN422 (IF)	50 53 27.60 N 006 52 47.15 E	50 53.460 N 006 52.786 E
NN423 (FAF)	50 52 07.57 N 006 47 49.56 E	50 52.126 N 006 47.826 E
RW24 (MAPT)	50 50 07.92 N 006 40 26.57 E	50 50.132 N 006 40.443 E
NN426	50 47 12.81 N 006 29 39.93 E	50 47.213 N 006 29.665 E
IZWOK (MAHF)	50 36 27.38 N 006 39 36.93 E	50 36.456 N 006 39.616 E

RNP RWY 24 FROM NN424:

	CODING	DISPLAY
NN424 (IAF)	50 55 03.78 N 006 58 46.24 E	50 55.063 N 006 58.771 E
NN422 (IF)	50 53 27.60 N 006 52 47.15 E	50 53.460 N 006 52.786 E
NN423 (FAF)	50 52 07.57 N 006 47 49.56 E	50 52.126 N 006 47.826 E
RW24 (MAPT)	50 50 07.92 N 006 40 26.57 E	50 50.132 N 006 40.443 E
NN426	50 47 12.81 N 006 29 39.93 E	50 47.213 N 006 29.665 E
IZWOK (MAHF)	50 36 27.38 N 006 39 36.93 E	50 36.456 N 006 39.616 E

RNP RWY 24 FROM NN425:

NN425 (IAF)	50 58 30.98 N 006 49 23.18 E	50 58.516 N 006 49.386 E
NN422 (IF)	50 53 27.60 N 006 52 47.15 E	50 53.460 N 006 52.786 E
NN423 (FAF)	50 52 07.57 N 006 47 49.56 E	50 52.126 N 006 47.826 E
RW24 (MAPT)	50 50 07.92 N 006 40 26.57 E	50 50.132 N 006 40.443 E
NN426	50 47 12.81 N 006 29 39.93 E	50 47.213 N 006 29.665 E
IZWOK (IAF)	50 36 27.38 N 006 39 36.93 E	50 36.456 N 006 39.616 E

Threshold Coordinates

RWY 24	50 50 07.92 N 006 40 26.57 E	50 50.132 N 006 40.443 E
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PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 380

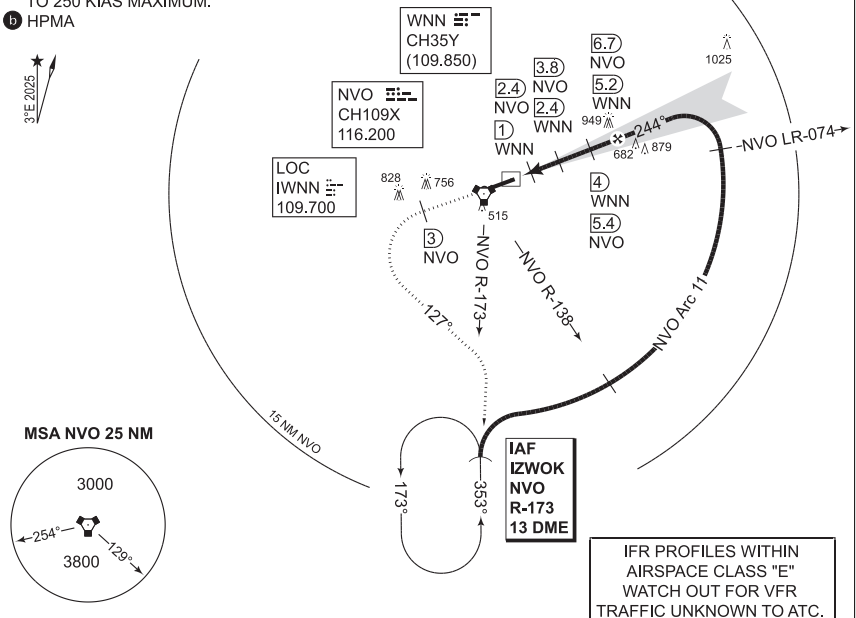
ILS or LOC RWY 24
NOERVENICH (ETNN)

LANGEN RADAR 344.550 135.350		NOERVENICH RADAR 281.675 129.055 123.300			NOERVENICH TOWER 285.075 136.205 122.100			
TACAN/LOC NVO CH109X / IWNN109.7		APP COURSE 244°	GS INTCP ALT 2000	DESCENT GR 3°/ 5.2%	DA See CAT	THR ELEV 327	ALS-LENGTH 1215 M	LDA 8010

NOTE:
a) MISSED APPROACH TURN LIMITED
TO 250 KIAS MAXIMUM.

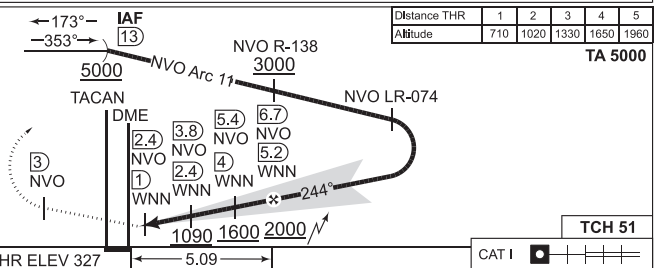
b) HPMa

IAF
50°36.41'N
006°39.62'E



EMERG SAFE ALT 100 NM 4200

MISSED APPROACH
Climb straight ahead to 5000 ft. At NVO/3.0 DME turn left on track 127° to intercept NVO R-173 inbound IAF and enter Holding.



CATEGORY	A	B	C	D	E
ILS 24		527 - 550/0.8 200 (200-0.8/1.2)			606 - 600/0.8 279 (300-0.8/1.3)
LOC 24		670 - 0.9 343 (400-0.9/1.6)			
CIRCLING	810 - 2.0 430 (500-2.0)	950 - 2.6 570 (600-2.6)	1400 - 4.9 1020 (1100-4.9)	b 1300 - 4.3 920 (1000-4.3)	

ILS or LOC RWY 24

50°49.87'N
006°39.49'E

NOERVENICH (ETNN)

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 380

**TACAN RWY 24
NOERVENICH (ETNN)**

LANGEN RADAR 344.550 135.350		NOERVENICH RADAR 281.675 129.055 123.300			NOERVENICH TOWER 285.075 136.205 122.100		
TACAN NVO CH 109X	APP COURSE 240°	FAF ALT 2000	DESCENT GR 5.2%	MDA 690	THR ELEV 327	ALS-LENGTH 1215 M	LDA 8010

NOTE:

a) MISSED APPROACH TURN LIMITED
TO 250 KIAS MAX.

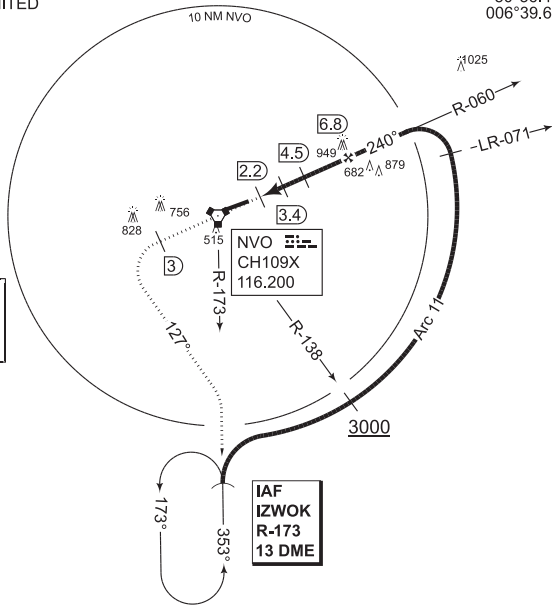
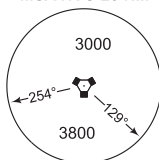
b) HPMA

IAF
50°36.41'N
006°39.62'E



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

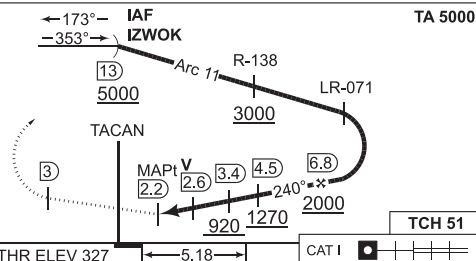
MSA NVO 25 NM



EMERG SAFE ALT 100 NM 4200

MISSED APPROACH

Climb straight ahead to 5000 ft.
At NVO/3.0 DME turn left on
Track 127° to intercept NVO R-173
inbound IAF and enter Holding.



THR ELEV 327

TCH 51

CAT I

CATEGORY	A	B	C	D	E
TACAN 24	690 - 1.0 363 (400-1.0/1.7)				
CIRCLING	810 - 2.0 430 (500-2.0)	950 - 2.6 570 (600-2.6)	1400 - 4.9 1020 (1100-4.9)	b 1300 - 4.3 920 (1000-4.3)	

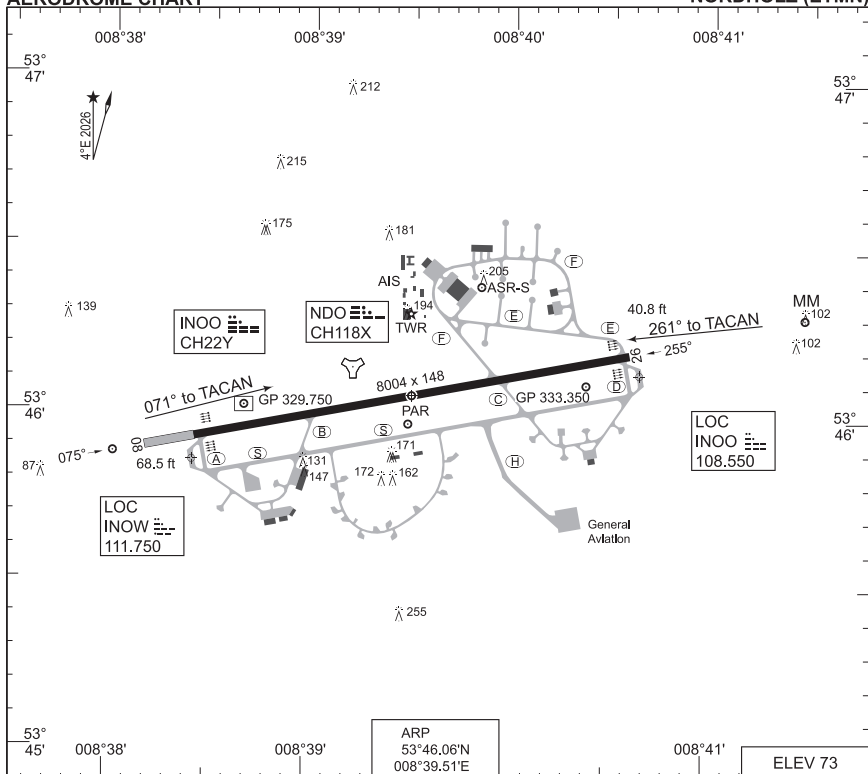
TACAN RWY 24

50°49.87'N
006°39.49'E

NOERVENICH (ETNN)

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

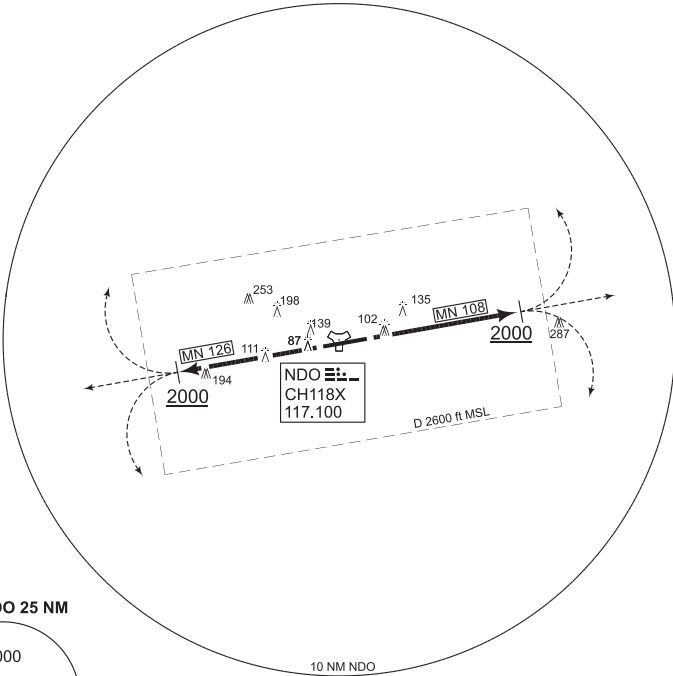
	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	TERPS	08	3.0°	43		751	ABCDE	TERPS	274 - 0.8 200 (200-0.8/1.2)
	TERPS	26	3.0°	68		1085	ABCDE	TERPS	267 - 0.8 200 (200-0.8/1.2)
	TERPS	079	3.0°				COPTER	TERPS	174 - 0.4 100 (100-0.4/0.8)

NORDHOLZ TOWER 315.700 131.255	NORDHOLZ RADAR 342.625 129.855	BREMEN RADAR 299.100 124.075
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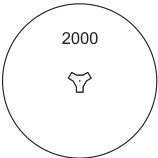
NOTE:
a) NO TURN BEFORE DER.



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



MSA NDO 25 NM



EMERG SAFE ALT 100 NM 2700 TA 5000

MN 108 (RWY 08)	- Climb on track 075° to 2000 ft - Continue as cleared by ATC
MN 126 (RWY 26)	- Climb on track 255° to 2000 ft - Continue as cleared by ATC

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 73

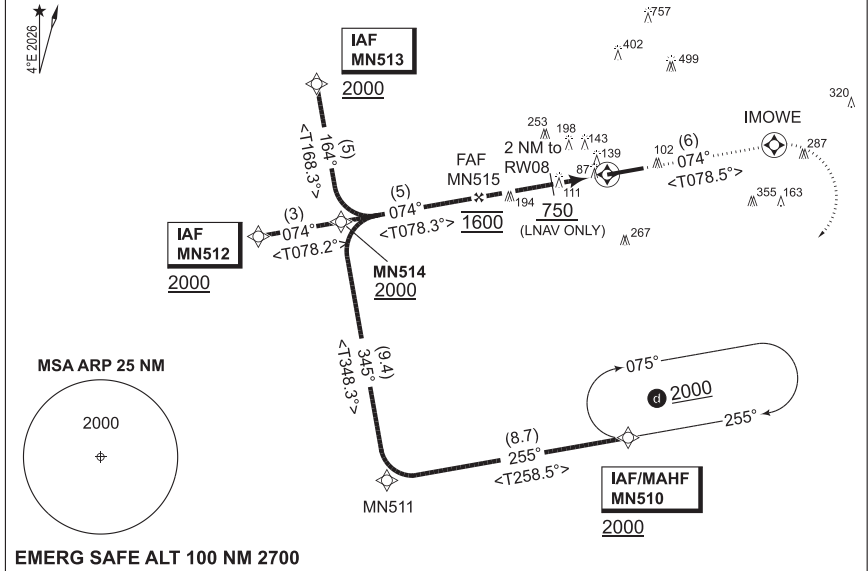
RNP RWY 08
NORDHOLZ (ETMN)

BREMEN RADAR 299.100 124.075		NORDHOLZ RADAR 342.625 129.855		NORDHOLZ TOWER 315.700 131.255		
APP COURSE 074°	FAF ALT 1600	GS 3° / 5.2%	DA / MDA See CAT	THR ELEV 69	ALS-LENGTH 900 M	LDA 8004

NOTE:

- GNSS REQUIRED.
- PROCEDURE LIMITED TO 220 KIAS MAX.
- BARO/VNAV NOT AUTHORIZED BELOW -30°C.
- HOLDING LIMITED TO 220 KIAS MAX.
- CIRCLING NOT AUTHORIZED NORTH OF RWY 08/26.

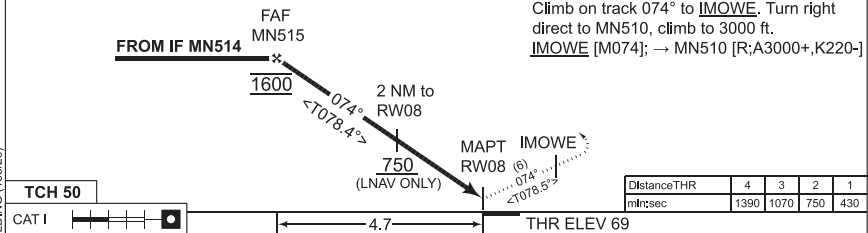
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



TA 5000

MISSED APPROACH

Climb on track 074° to **IMOWE**. Turn right direct to MN510, climb to 3000 ft.
IMOWE [M074]; → MN510 [R;A3000+K,220-]



CATEGORY	A	B	C	D
LNAV	430 - 1.0 361 (400-1.0/1.5)		430 - 1.0 361 (400-1.0/1.7)	440 - 1.0 371 (400-1.0/1.7)
LNAV / VNAV	319 - 0.8/550 250 (300-0.8/1.3)	326 - 0.8/600 257 (300-0.8/1.3)	345 - 0.8/600 276 (300-0.8/1.3)	372 - 0.8/700 303 (400-0.8/1.4)
CIRCLING	560 - 2.3 487 (500-2.3)	570 - 2.3 496 (500-2.3)	780 - 3.3 707 (800-3.3)	930 - 4.0 857 (900-4.0)

RNP RWY 08

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)

RNP RWY 08 FROM MN510:

	CODING	DISPLAY
MN510 (IAF)	53 36 34.43 N 008 40 04.63 E	53 36.574 N 008 40.077 E
MN511 (TF)	53 34 49.31 N 008 25 41.31 E	53 34.822 N 008 25.689 E
MN514 (IF)	53 43 59.29 N 008 22 29.81 E	53 43.988 N 008 22.497 E
MN515 (FAF)	53 44 59.79 N 008 30 44.63 E	53 44.996 N 008 30.744 E
RW08 (MAPT)	53 45 55.57 N 008 38 25.41 E	53 45.926 N 008 38.424 E
IMOWE (MATF)	53 47 07.45 N 008 48 25.86 E	53 47.124 N 008 48.431 E
MN510 (MAHF)	53 36 34.43 N 008 40 04.63 E	53 36.574 N 008 40.077 E

RNP RWY 08 FROM MN512:

	CODING	DISPLAY
MN512 (IAF)	53 43 22.73 N 008 17 33.11 E	53 43.379 N 008 17.552 E
MN514 (IF)	53 43 59.29 N 008 22 29.81 E	53 43.988 N 008 22.497 E
MN515 (FAF)	53 44 59.79 N 008 30 44.63 E	53 44.996 N 008 30.744 E
RW08 (MAPT)	53 45 55.57 N 008 38 25.41 E	53 45.926 N 008 38.424 E
IMOWE (MATF)	53 47 07.45 N 008 48 25.86 E	53 47.124 N 008 48.431 E
MN510 (MAHF)	53 36 34.43 N 008 40 04.63 E	53 36.574 N 008 40.077 E

RNP RWY 08 FROM MN513:

	CODING	DISPLAY
MN513 (IAF)	53 48 52.56 N 008 20 47.11 E	53 48.876 N 008 20.785 E
MN514 (IF)	53 43 59.29 N 008 22 29.81 E	53 43.988 N 008 22.497 E
MN515 (FAF)	53 44 59.79 N 008 30 44.63 E	53 44.996 N 008 30.744 E
RW08 (MAPT)	53 45 55.57 N 008 38 25.41 E	53 45.926 N 008 38.424 E
IMOWE (MATF)	53 47 07.45 N 008 48 25.86 E	53 47.124 N 008 48.431 E
MN510 (MAHF)	53 36 34.43 N 008 40 04.63 E	53 36.574 N 008 40.077 E

Threshold Coordinates

RWY 08	53 45 55.57 N 008 38 25.41 E	53 45.926 N 008 38.424 E
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PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 73

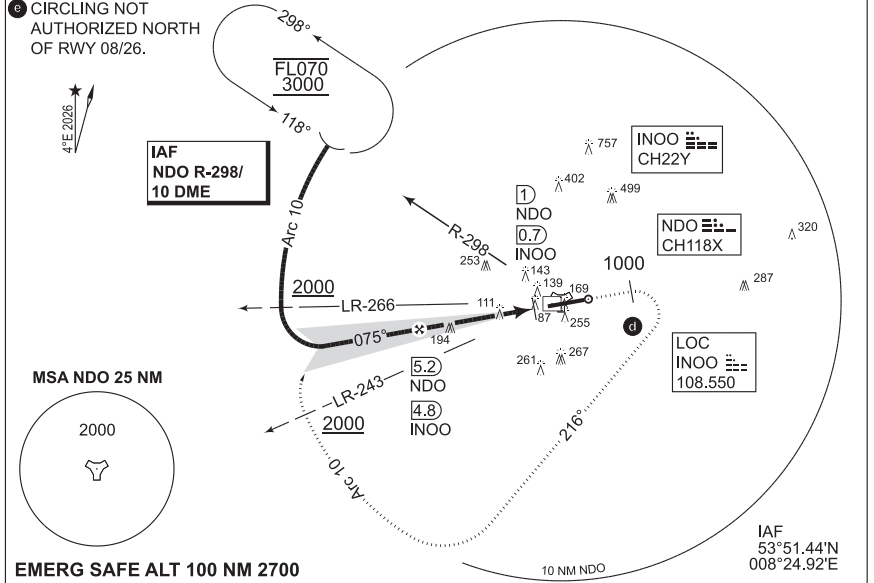
ILS or LOC RWY 08
NORDHOLZ (ETMN)

BREMEN RADAR 299.100 124.075		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.



MISSED APPROACH
Climb on RWY track to 2000 ft MSL. When passing 1000 ft MSL turn right heading 216° and intercept Arc 10 DME NDO TACAN and return to final.

DIST INOO	4	3	2	1
DIST NDO	4.3	3.3	2.3	1.3
Altitude	1340	1020	700	380

CAT I

4.65

THR ELEV 69

TCH 50

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

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)

CHANGE: LEAD RADIAL (103/26)

ACC 11 JUN 2026

TERPS INSTRUMENT APPROACH CHART

**TACAN RWY 08
NORDHOLZ (ETMN)**

BREMEN RADAR 299.100 124.075		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:

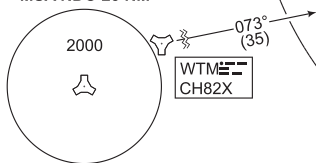
ⓐ CIRCLING NOT AUTHORIZED NORTH OF RWY.

SWG
CH55X



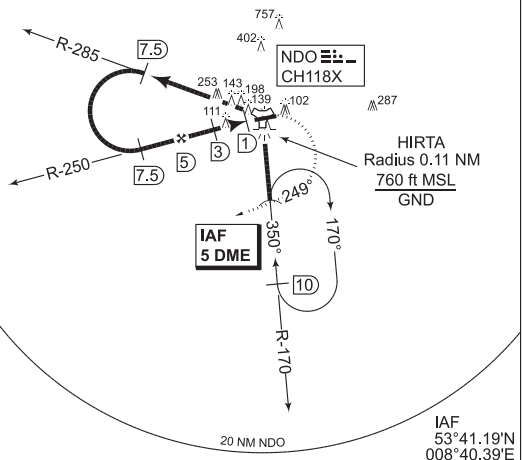
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

MSA NDO 25 NM

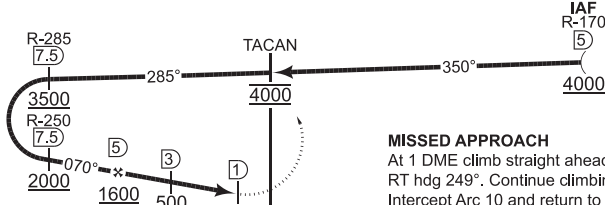


WTM
CH82X

EMERG SAFE ALT 100 NM 2700



TA 5000



MISSED APPROACH

At 1 DME climb straight ahead to 1000 ft, RT hdg 249°. Continue climbing to 2500 ft. Intercept Arc 10 and return to final.

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)		
	ⓐ 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)

PANS-OPS INSTRUMENT APPROACH CHART

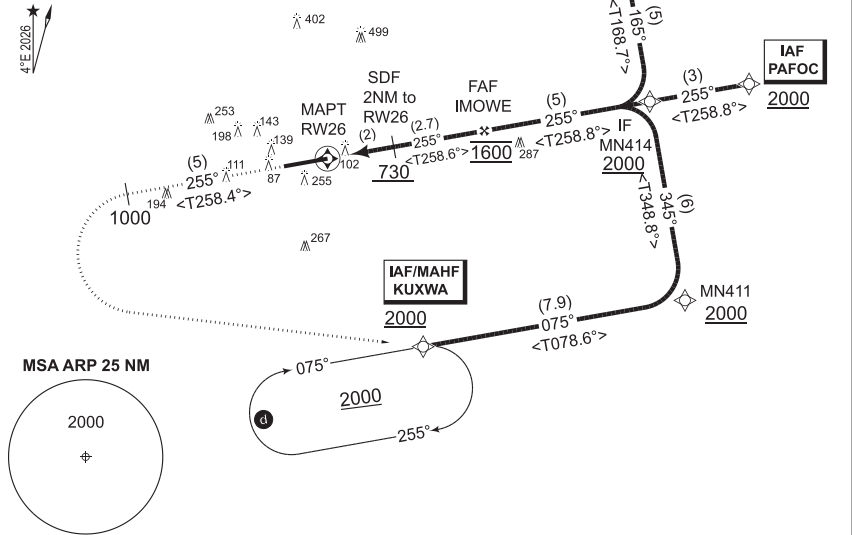
AD ELEV 73

RNP RWY 26
NORDHOLZ (ETMN)

BREMEN RADAR 299.100 124.075		NORDHOLZ RADAR 342.625 129.855		NORDHOLZ TOWER 315.700 131.255		
APP COURSE 255°	FAF ALT 1600	GS 3° / 5.2%	DA / MDA See CAT	THR ELEV 41	ALS-LENGTH 900 M	LDA 8004

NOTE:

- a) GNSS REQUIRED.
- b) BARO/VNAV NOT AUTHORIZED BELOW -30°C.
- c) PROCEDURE LIMITED TO 220 KIAS MAX.
- d) HOLDING LIMITED TO 220 KIAS MAX.
- e) CIRCLING NOT AUTHORIZED NORTH OF RWY 08/26.



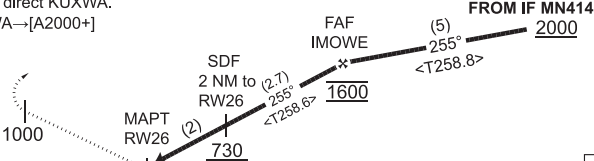
EMERG SAFE ALT 100 NM 2700

MISSED APPROACH

Climb on track 255° to 2000 ft. When passing 1000 ft, turn left direct KUXWA. [M255, A1000, L] KUXWA→[A2000+]

Distance THR	1	2	3	4
Altitude	410	730	1050	1370

TA 5000



TCH 50

THR ELEV 41	4.7	CAT I
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CATEGORY	A	B	C	D
LNAV	380 - 0.9 339 (400-0.9/1.5)	390 - 0.9 349 (400-0.9/1.5)	420 - 1.0 379 (400-1.0/1.7)	440 - 1.1 399 (400-1.1/1.8)
LNAV/VNAV	292 - 0.8 600 251 (300-0.8/1.3)	304 - 0.8 600 263 (300-0.8/1.3)	323 - 0.8 650 282 (300-0.8/1.4)	350 - 0.8 700 309 (400-0.8/1.4)
CIRCLING	560 - 2.3 487 (500-2.3)	570 - 2.3 496 (500-2.3)	780 - 3.3 707 (800-3.3)	930 - 4.0 857 (900-4.0)

RNP RWY 26

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)

CHANGE: VAR (054/26)

ACC 16 APR 2026

RNP RWY 26 FROM KUXWA:

	CODING	DISPLAY
KUXWA (IAF)	53 40 40.44 N 008 45 37.08 E	53 40.674 N 008 45.618 E
MN411 (TF)	53 42 13.28 N 008 58 40.17 E	53 42.221 N 008 58.670 E
MN414 (IF)	53 48 06.16 N 008 56 41.91 E	53 48.103 N 008 56.698 E
IMOWE (FAF)	53 47 07.45 N 008 48 25.86 E	53 47.124 N 008 48.431 E
RW26 (MAPT)	53 46 11.27 N 008 40 35.94 E	53 46.188 N 008 40.599 E
KUXWA (MAHF)	53 40 40.44 N 008 45 37.08 E	53 40.674 N 008 45.618 E

RNP RWY 26 FROM PAFOC:

	CODING	DISPLAY
PAFOC (IAF)	53 48 41.11 N 009 01 39.72 E	53 48.685 N 009 01.662 E
MN414 (IF)	53 48 06.16 N 008 56 41.91 E	53 48.103 N 008 56.698 E
IMOWE (FAF)	53 47 07.45 N 008 48 25.86 E	53 47.124 N 008 48.431 E
RW26 (MAPT)	53 46 11.27 N 008 40 35.94 E	53 46.188 N 008 40.599 E
KUXWA (MAHF)	53 40 40.44 N 008 45 37.08 E	53 40.674 N 008 45.618 E

RNP RWY 26 FROM CUXIE:

	CODING	DISPLAY
CUXIE (IAF)	53 52 59.90 N 008 55 03.02 E	53 52.998 N 008 55.050 E
MN414 (IF)	53 48 06.16 N 008 56 41.91 E	53 48.103 N 008 56.698 E
IMOWE (FAF)	53 47 07.45 N 008 48 25.86 E	53 47.124 N 008 48.431 E
RW26 (MAPT)	53 46 11.27 N 008 40 35.94 E	53 46.188 N 008 40.599 E
KUXWA (MAHF)	53 40 40.44 N 008 45 37.08 E	53 40.674 N 008 45.618 E

**ILS or LOC RWY 26
NORDHOLZ (ETMN)**

IAF
53°47.11'N
008°48.37'E



CATEGORY		A	B	C	D
MIPS	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)	
	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)

NORDHOLZ (ETMN)

PANS-OPS
INSTRUMENT APPROACH CHART

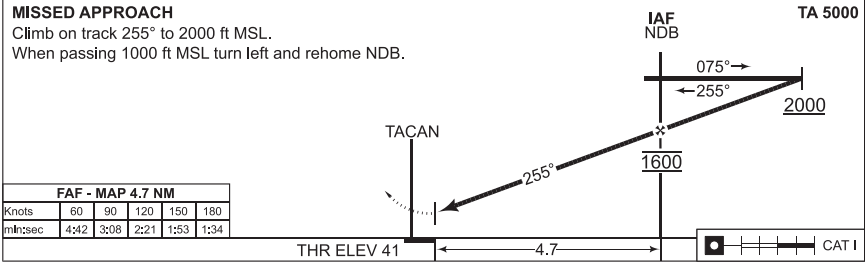
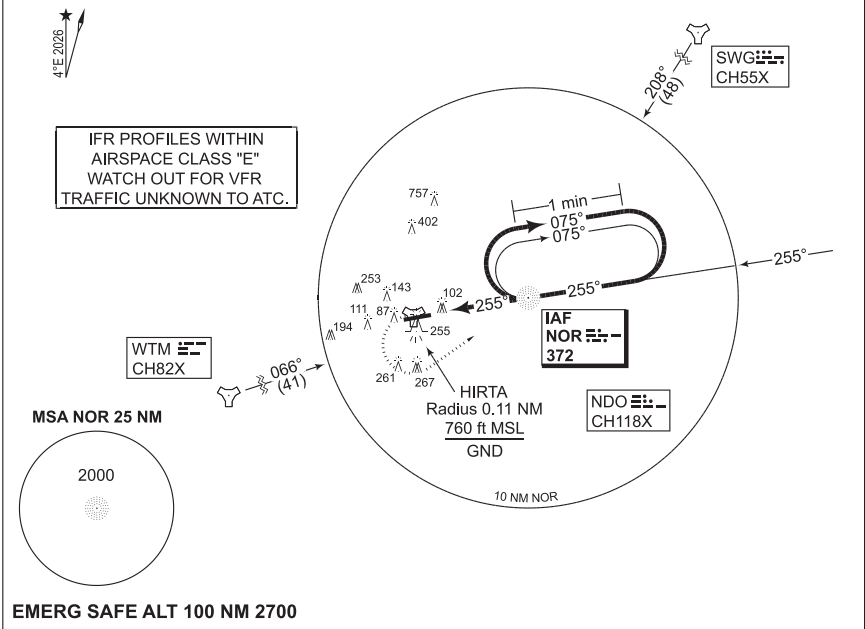
AD ELEV 73

NDB RWY 26
NORDHOLZ (ETMN)

BREMEN RADAR 299.100 124.075		NORDHOLZ RADAR 342.625 129.855		NORDHOLZ TOWER 315.700 131.255	
NDB NOR 372	APP COURSE 255°	FAF ALT 1600	MDA See CAT	THR ELEV 41	ALS-LENGTH 900 M LDA 8004

NOTE:
a) HOLDING/RT LIMITED TO 230 KIAS MAX.
b) CIRCLING NOT AUTHORIZED NORTH OF RWY 08/26.

IAF
53°47.11'N
008°48.37'E



CATEGORY	A	B	C	D
NDB 26	480 - 1.3 439 (500-1.3/1.5)		480 - 1.3 439 (500-1.3/2.0)	
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)

NDB RWY 26

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)

CHANGE: WTM (103/26)

ACC 11 JUN 2026

TERPS INSTRUMENT APPROACH CHART

**TACAN RWY 26
NORDHOLZ (ETMN)**

BREMEN RADAR 299.100 124.075		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:

a CIRCLING NOT AUTHORIZED NORTH OF RWY.

SWG CH55X



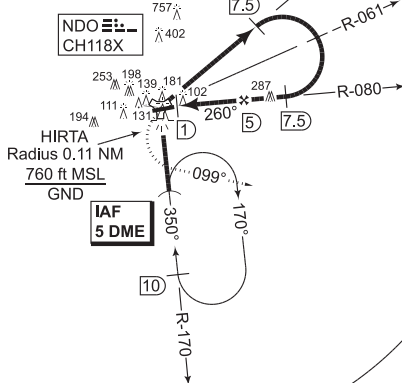
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

MSA NDO 25 NM

2000

WTM CH82X

EMERG SAFE ALT 100 NM 2700



IAF
53°41.19'N
008°40.39'E

TA 5000

IAF
R-170
5

4000

TACAN

4000

MISSED APPROACH

At 1 DME turn left climbing
to 2500 ft on heading 099°
and intercept Arc 10.

1

1600

2000

3500

4000

4200

4400

4600

4800

5000

5200

5400

5600

5800

6000

6200

6400

6600

6800

7000

7200

7400

7600

7800

8000

8200

8400

8600

8800

9000

9200

9400

9600

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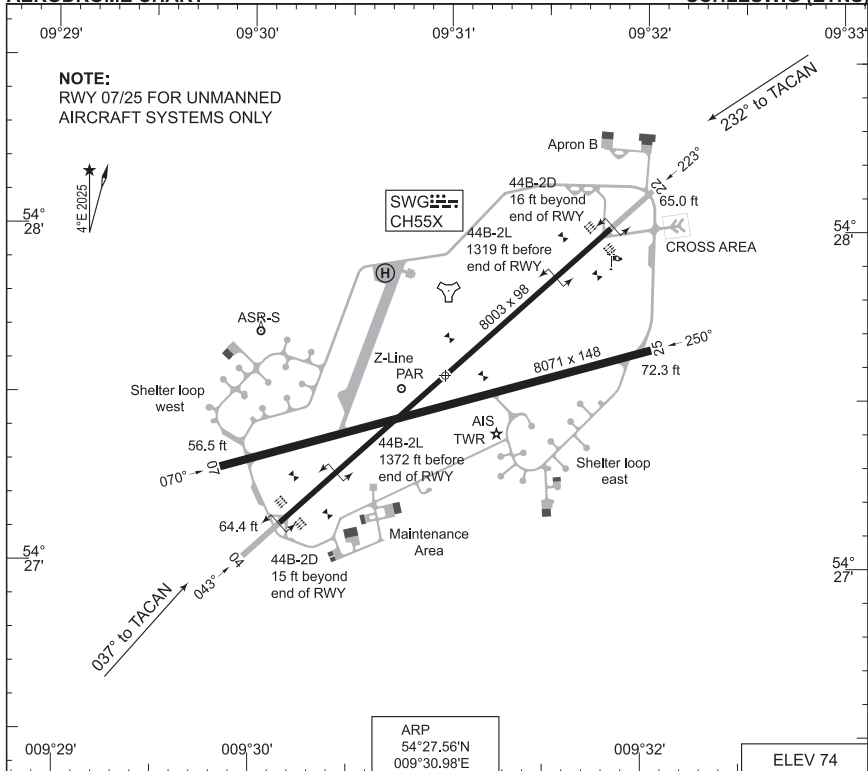
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52600

AERODROME CHART

SCHLESWIG (ETNS)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
04	54 F/B/W/T	8003	8003	8003	8003	3.0°		70	54°27.12'N 009°30.15'E
22	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

PAR	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
	PANS-OPS	04	3.0°	40		750	ABCDE	MIPS	264 - 0.8/550 200 (200-0.8/1.2)
	PANS-OPS	22	3.0°	38		750	ABCDE	MIPS	265 - 0.8/550 200 (200-0.8/1.2)

AERODROME CHART

SCHLESWIG (ETNS)

ETNS 1A - 2B
SCHLESWIG (ETNS)

NOTE:
a) NO TURN BEFORE DER.
b) NOT FOR FLIGHTPLAN PURPOSE.



ACC 16 APR 2026

SCHLESWIG (ETNS)

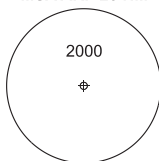
**RNP RWY 04
SCHLESWIG (ETNS)**

d HPMA

4°E 2025

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

MSA ARP 25 NM

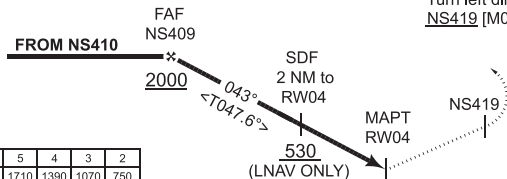


EMERG SAFE ALT 100 NM 2300

TA 5000

MISSED APPROACH

Climb on track 043° to NS419.
Turn left direct to NS400, climb to 4000 ft.
NS419 [M044,L]→NS400 [A4000+]



Dist THR / RW04	6	5	4	3	2
Altitude	2000	1710	1390	1070	750

TCH 50

CAT:

CATEGORY		A	B	C	D	E
MIPS	LNAV	440 - 1.0 376 (400-1.0/1.5)				
	LNAV/VNAV	314 - 0.8 550 250 (300-0.8/1.3)	321 - 0.8 600 257 (300-0.8/1.3)	338 - 0.8 600 274 (300-0.8/1.3)	348 - 0.8 650 284 (300-0.8/1.4)	366 - 0.8 700 302 (400-0.8/1.4)
	 CIRCLING	520 - 2.1 446 (500-2.1)	580 - 2.4 506 (600-2.4)	790 - 3.3 716 (800-3.3)	d 690 - 3.2 616 (700-3.2)	

RNP RWY 04

54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)

CHANGE: NOTE (014/26)

ACC 19 FEB 2026

RNP RWY 04 FROM NS411:

	CODING	DISPLAY
NS411 (IAF)	54 15 39.17 N 009 22 19.95 E	54 15.653 N 009 22.332 E
NS410 (IF)	54 19 37.70 N 009 16 06.50 E	54 19.628 N 009 16.108 E
NS409 (FAF)	54 23 07.92 N 009 22 39.53 E	54 23.132 N 009 22.659 E
RW04 (MAPT)	54 27 07.10 N 009 30 08.86 E	54 27.118 N 009 30.148 E
NS419 (MATF)	54 31 58.74 N 009 39 19.95 E	54 31.979 N 009 39.332 E
NS400 (MAHF)	54 35 35.26 N 009 14 10.25 E	54 35.588 N 009 14.171 E

RNP RWY 04 FROM NS412:

	CODING	DISPLAY
NS412 (IAF)	54 16 30.87 N 009 10 18.57 E	54 16.515 N 009 10.310 E
NS410 (IF)	54 19 37.70 N 009 16 06.50 E	54 19.628 N 009 16.108 E
NS409 (FAF)	54 23 07.92 N 009 22 39.53 E	54 23.132 N 009 22.659 E
RW04 (MAPT)	54 27 07.10 N 009 30 08.86 E	54 27.118 N 009 30.148 E
NS419 (MATF)	54 31 58.74 N 009 39 19.95 E	54 31.979 N 009 39.332 E
NS400 (MAHF)	54 35 35.26 N 009 14 10.25 E	54 35.588 N 009 14.171 E

RNP RWY 04 FROM NS413:

	CODING	DISPLAY
NS413 (IAF)	54 23 35.91 N 009 09 51.86 E	54 23.598 N 009 09.864 E
NS410 (IF)	54 19 37.70 N 009 16 06.50 E	54 19.628 N 009 16.108 E
NS409 (FAF)	54 23 07.92 N 009 22 39.53 E	54 23.132 N 009 22.659 E
RW04 (MAPT)	54 27 07.10 N 009 30 08.86 E	54 27.118 N 009 30.148 E
NS419 (MATF)	54 31 58.74 N 009 39 19.95 E	54 31.979 N 009 39.332 E
NS400 (MAHF)	54 35 35.26 N 009 14 10.25 E	54 35.588 N 009 14.171 E

Threshold Coordinates

RWY 04	54 27 07.10 N 009 30 08.86 E	54 27.118 N 009 30.148 E
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PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 74

**TACAN RWY 04
SCHLESWIG (ETNS)**

BREMEN RADAR 299.100 124.075		SCHLESWIG RADAR 376.825 142.050		SCHLESWIG TOWER 246.500 135.155		SCHLESWIG RFIS 118.555		
TACAN SWG CH55X 111.800		APP COURSE 037°	FAF ALT 2100	DESCENT GR 5.2%	MDA/DA See CAT	THR ELEV 64	ALS-LENGTH 900 M	LDA 8003

NOTE:

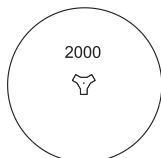
- a) DME REQUIRED.
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY 04/22.
- c) HPMA

IAF
54°17.28'N
009°15.27'E

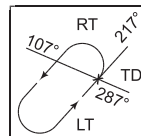
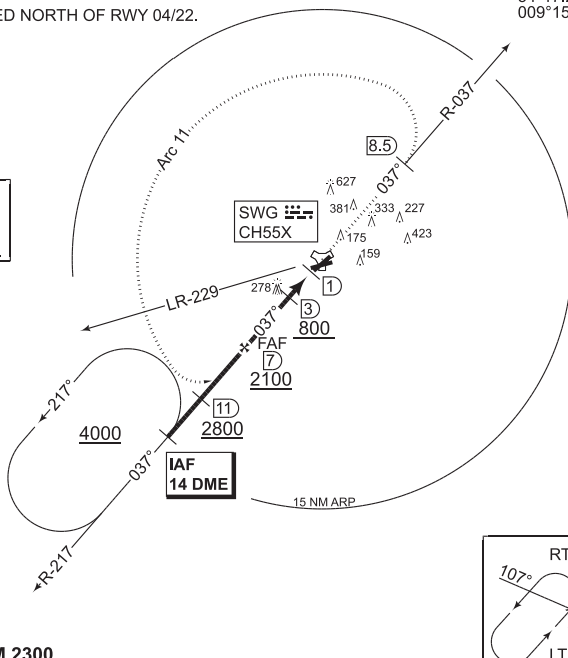


IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

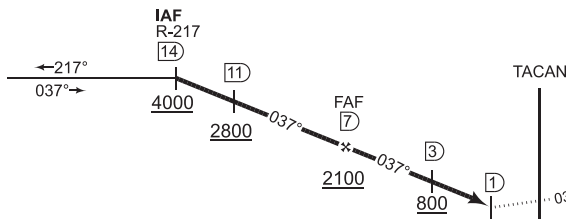
MSA SWG 25 NM



EMERG SAFE ALT 100 NM 2300



TA 5000



MISSED APPROACH

Climb on SWG R-037
to 2800 ft.
At SWG DME 8.5 turn
left and join SWG ARC 11.
Return to Final.



6.15

THR ELEV 64

CATEGORY	A	B	C	D	E
TACAN 04	420 - 0.9 355 (400-0.9/1.5)		420 - 0.9 355 (400-0.9/1.6)		
PAR 04	264 - 0.8/550 200 (200-0.8/1.2)				
b CIRCLING	520 - 2.1 446 (500-2.1)	580 - 2.4 506 (600-2.4)	790 - 3.3 716 (800-3.3)	c 690 - 3.2 616 (700-3.2)	

TACAN RWY 04

54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)

ARA/IAA RWY 04
SCHLESWIG (ETNS)

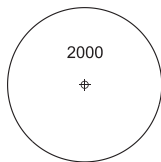
NOTE:

- a) IAA PROCEDURE FOR FAMILIARIZED AIRCREWS ONLY.
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY 04/22.
- c) HPM



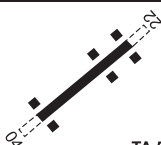
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

MSA ARP 25 NM

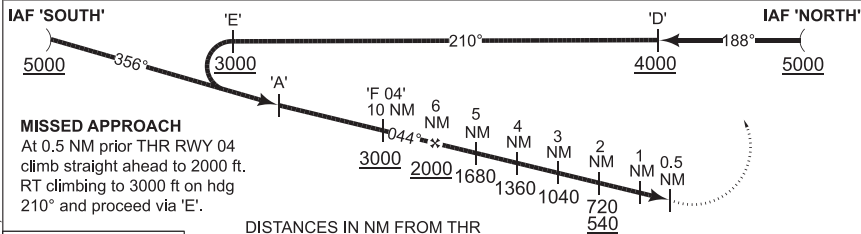


EMERG SAFE ALT 100 NM 2300

ARA REFLECTORS



TA 5000



MISSED APPROACH

At 0.5 NM prior THR RWY 04
climb straight ahead to 2000 ft.
RT climbing to 3000 ft on hdg
210° and proceed via 'E'.

DISTANCES IN NM FROM THR

CAT I

TDZE 70

CATEGORY		A	B	C	D	E
TERMS	S-IAA 05	440 - 0.8 370 (400-0.8/1.5)		440 - 0.8 370 (400-0.8/1.6)	440 - 1.2 370 (400-1.2/2.0)	
	b CIRCLING	520 - 2.1 446 (500-2.1)	580 - 2.4 506 (600-2.4)	790 - 3.3 716 (800-3.3)	c 690 - 3.2 616 (700-3.2)	

CHANGE: REVISED CHART (161/25)

TERPS

ARA/IAA RWY 04

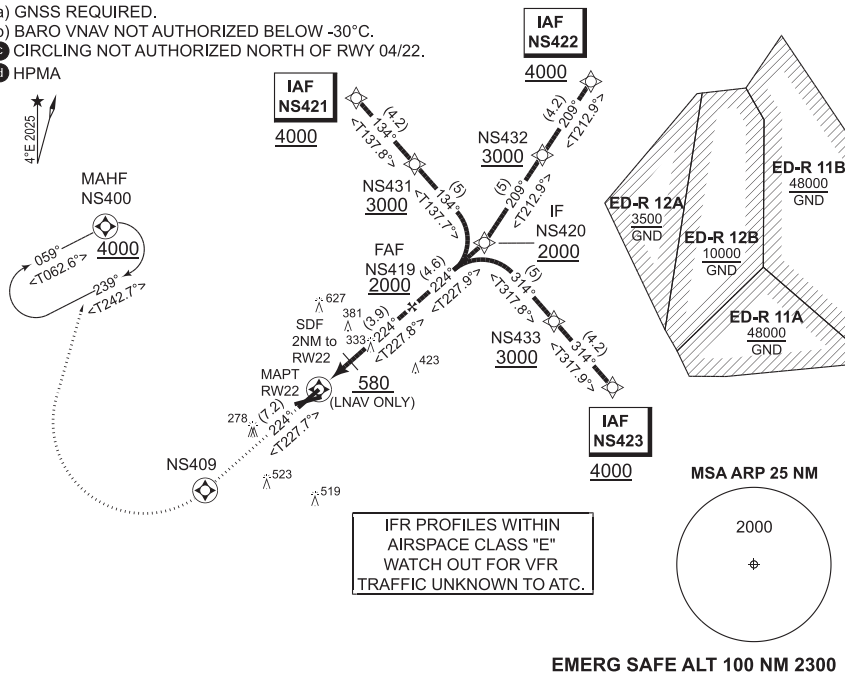
54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)

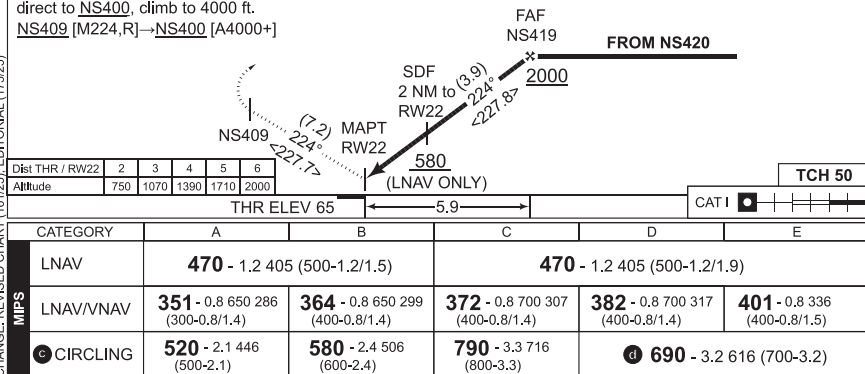
ACC 25 DEC 2025

**RNP RWY 22
SCHLESWIG (ETNS)**

NOTES:
a) GNSS REQUIRED.
b) BARO VNAV NOT AUTHORIZED BELOW -30°C.
c) CIRCLING NOT AUTHORIZED NORTH OF RWY 04/22.
d) HPM



TA 5000



SCHLESWIG (ETNS)

RNP RWY 22 FROM NS421:

	CODING	DISPLAY
NS421 (IAF)	54 41 51.40 N 009 34 33.04 E	54 41.857 N 009 34.551 E
NS431 (TF)	54 38 45.23 N 009 39 24.12 E	54 38.754 N 009 39.402 E
NS420 (IF)	54 35 03.48 N 009 45 10.86 E	54 35.058 N 009 45.181 E
NS419 (FAF)	54 31 58.74 N 009 39 19.95 E	54 31.979 N 009 39.332 E
RW22 (MAPT)	54 28 00.21 N 009 31 48.98 E	54 28.004 N 009 31.816 E
NS409 (MATF)	54 23 07.92 N 009 22 39.53 E	54 23.132 N 009 22.659 E
NS400 (MAHF)	54 35 35.26 N 009 14 10.25 E	54 35.588 N 009 14.171 E

RNP RWY 22 FROM NS422:

	CODING	DISPLAY
NS422 (IAF)	54 42 45.54 N 009 53 46.84 E	54 42.759 N 009 53.781 E
NS432 (TF)	54 39 14.66 N 009 49 51.46 E	54 39.244 N 009 49.858 E
NS420 (IF)	54 35 03.48 N 009 45 10.86 E	54 35.058 N 009 45.181 E
NS419 (FAF)	54 31 58.74 N 009 39 19.95 E	54 31.979 N 009 39.332 E
RW22 (MAPT)	54 28 00.21 N 009 31 48.98 E	54 28.004 N 009 31.816 E
NS409 (MATF)	54 23 07.92 N 009 22 39.53 E	54 23.132 N 009 22.659 E
NS400 (MAHF)	54 35 35.26 N 009 14 10.25 E	54 35.588 N 009 14.171 E

RNP RWY 22 FROM NS423:

	CODING	DISPLAY
NS423 (IAF)	54 28 14.62 N 009 55 45.14 E	54 28.244 N 009 55.752 E
NS433 (TF)	54 31 21.31 N 009 50 55.52 E	54 31.355 N 009 50.925 E
NS420 (IF)	54 35 03.48 N 009 45 10.86 E	54 35.058 N 009 45.181 E
NS419 (FAF)	54 31 58.74 N 009 39 19.95 E	54 31.979 N 009 39.332 E
RW22 (MAPT)	54 28 00.21 N 009 31 48.98 E	54 28.004 N 009 31.816 E
NS409 (MATF)	54 23 07.92 N 009 22 39.53 E	54 23.132 N 009 22.659 E
NS400 (MAHF)	54 35 35.26 N 009 14 10.25 E	54 35.588 N 009 14.171 E

Threshold Coordinates

RWY 22	54 28 00.21 N 009 31 48.98 E	54 28.004 N 009 31.816 E
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PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 74

TACAN RWY 22 SCHLESWIG (ETNS)

BREMEN RADAR 299.100 124.075	SCHLESWIG RADAR 376.825 142.050	SCHLESWIG TOWER 246.500 135.155	SCHLESWIG RFIS 118.555
TACAN SWG CH55X 111.800	APP COURSE 232°	FAF ALT 1900	DESCENT GR 5.2%
		MDA/DA See CAT	THR ELEV 65
		ALS-LENGTH 900 M	LDA 8003

NOTE:

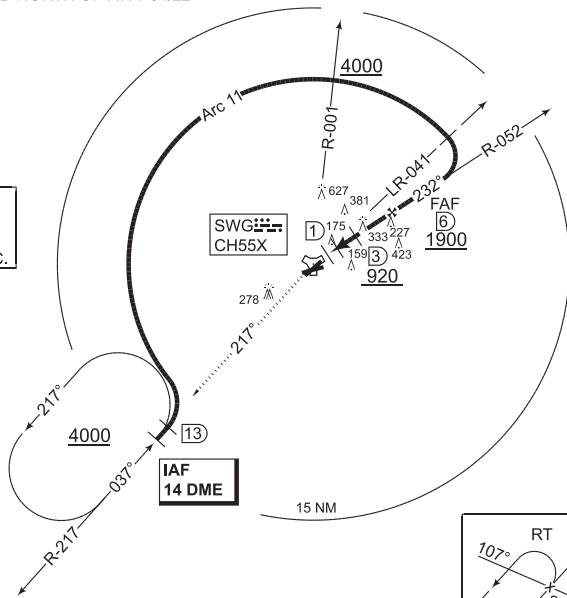
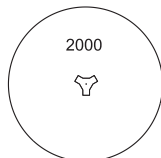
- a) DME REQUIRED.
- b) CIRCLING NOT AUTHORIZED NORTH OF RWY 04/22.
- c) HPMA

IAF
54°17.28'N
009°15.27'E



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

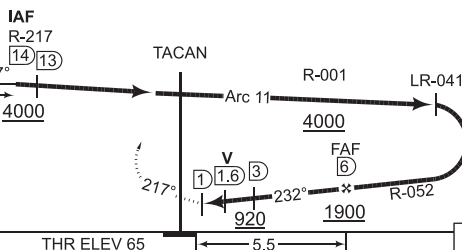
MSA SWG 25 NM



EMERG SAFE ALT 100 NM 2300

MISSED APPROACH

Climb to 4000 ft,
intercept SWG R-217
outbound and
enter holding.



TA 5000

TCH 50

THR ELEV 65

5.5

CAT I

CATEGORY	A	B	C	D	E
TACAN 22	470 - 1.2 405 (500-1.2/1.5)		470 - 1.2 405 (500-1.2/1.9)		
PAR 22		265 - 0.8/550 200 (200-0.8/1.2)			
b) CIRCLING	520 - 2.1 446 (500-2.1)	580 - 2.4 506 (600-2.4)	790 - 3.3 716 (800-3.3)	690 - 3.2 616 (700-3.2)	

TACAN RWY 22

54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)

CHANGE: HOLDING (014/26)

ACC 19 FEB 2026

**TERPS
INSTRUMENT APPROACH CHART**

**ARA/IAA RWY 22
SCHLESWIG (ETNS)**

AD ELEV 74

BREMEN RADAR 299.100 124.075		SCHLESWIG RADAR 376.825 142.050		SCHLESWIG TOWER 246.500 135.155		SCHLESWIG RFIS 118.555
APP COURSE 224°	FAF ALT 2000	MDA 500	TDZE 69	ALS-LENGTH 900 M	LDA 8003	

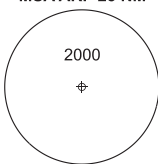
NOTE:

- a) IAA PROCEDURE FOR FAMILIARIZED AIRCREWS ONLY.
b) CIRCLING NOT AUTHORIZED NORTH OF RWY 04/22.
c) HPMA



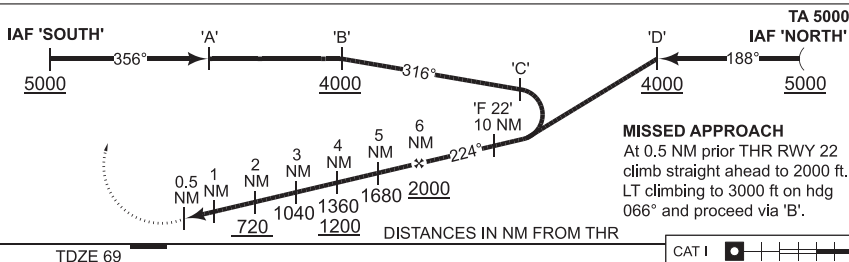
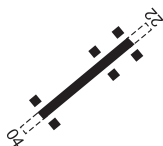
IFR PROFILES WITHIN AIRSPACE CLASS "E"
WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.

MSA ARP 25 NM



EMERG SAFE ALT 100 NM 2300

ARA REFLECTORS



CATEGORY	A	B	C	D	E
S-IAA 22	500 - 0.8 431 (500-0.8/1.5)		500 - 1.2 431 (500-1.2/2.0)	500 - 1.6 431 (500-1.6/2.4)	
b CIRCLING	520 - 2.1 446 (500-2.1)	580 - 2.4 506 (600-2.4)	790 - 3.3 716 (800-3.3)	c 690 - 3.2 616 (700-3.2)	

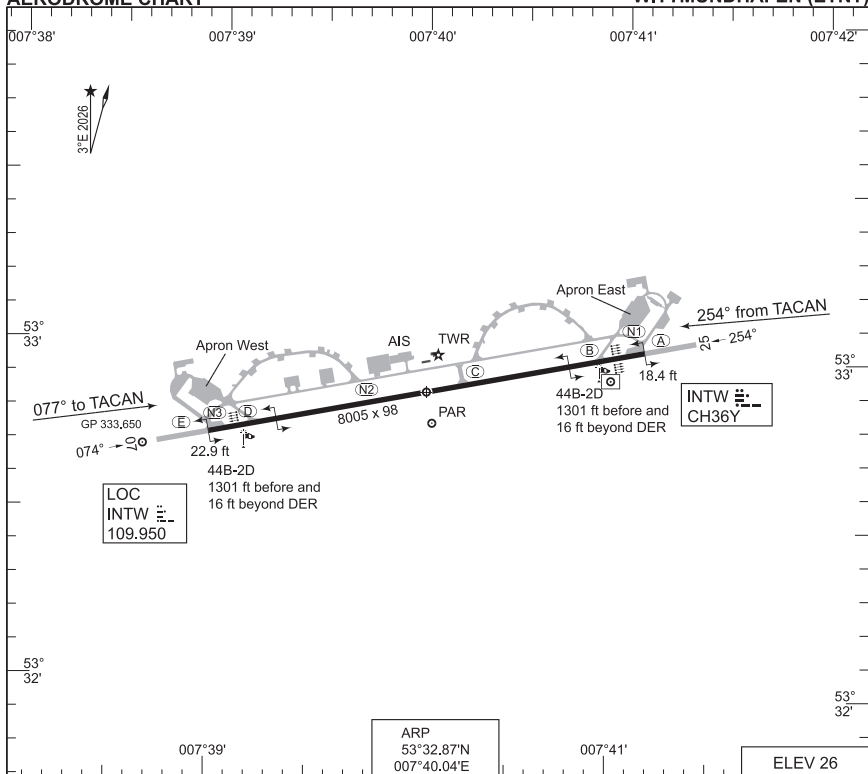
ARA/IAA RWY 22

54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)

AERODROME CHART

WITTMUNDHAFEN (ETNT)



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
07	110 R/A/W/T	8005	8005	8005	8005	3.0°		25	53°32.74'N 007°38.96'E
25	110 R/A/W/T	8005	8005	8005	8005	3.0°		22	53°33.01'N 007°41.12'E

WITTMUND TOWER 247.950 118.730 122.100
WITTMUND RADAR 298.250 131.015 SSR 4210 - 4217

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS PANS-OPS	07 25	3.0° 3.0°	32 32		584 590	ABCD ABCD	MIPS MIPS	223 - 0.8/550 200 (200-0.8/1.2) 219 - 0.8/550 200 (200-0.8/1.2)

AERODROME CHART

WITTMUNDHAFEN (ETNT)

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 26

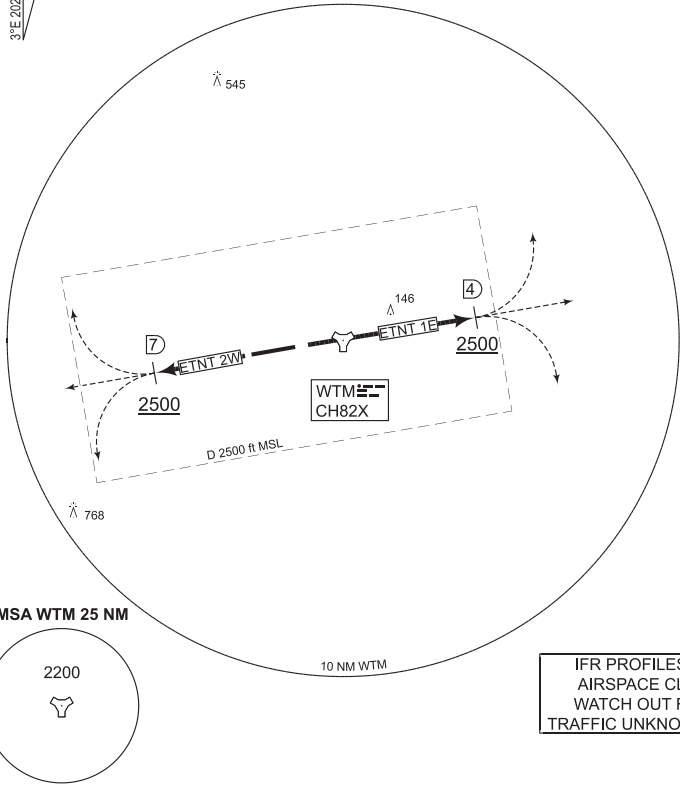
ETNT 1E - 2W
WITTMUNDHAFEN (ETNT)

WITTMUND TOWER 247.950 118.730		WITTMUND RADAR 298.250 131.015				BREMEN RADAR 240.600 124.800				
		RWY	from - to	60	120	180	240	300	360	Reason
		07	DER - 2500 ft	454	908	1362	1816	2270	2724	ATC
		25	DER - 2500 ft	580	1160	1740	2320	2900	3480	ATC

NOTE:

- a) NO TURN BEFORE DER
b) NOT FOR FLIGHTPLAN PURPOSE

NDO CH118X



EMERG SAFE ALT 100 NM 2700

TA 5000

ETNT1E (RWY 07)	- Climb straight ahead to WTM/4 DME - Continue as cleared by ATC CLIMBOUT RESTRICTION: Reach 2500 ft within 4 DME
ETNT 2W (RWY 25)	- Climb straight ahead to altitude 2500 ft MSL - Continue as cleared by ATC CLIMBOUT RESTRICTION: Reach 2500 ft within 7 DME

ETNT 1E - 2W

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)

CHANGE: EDITORIAL (080/26)

ACC 16 APR 2026

PANS-OPS INSTRUMENT APPROACH CHART

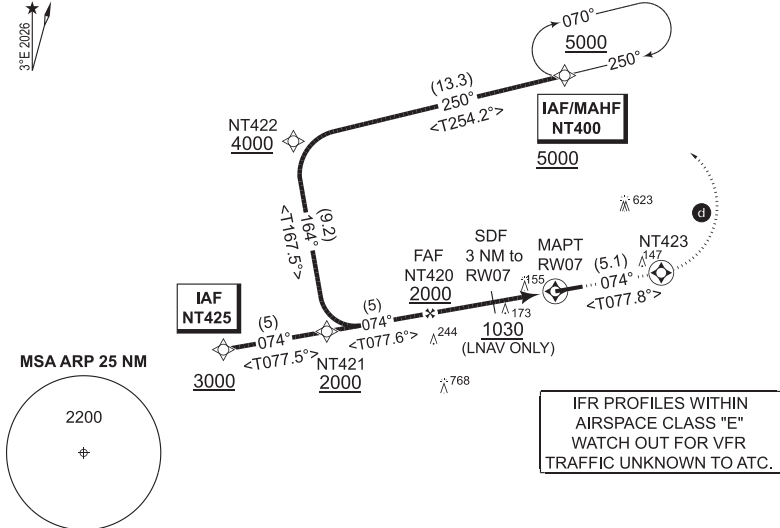
AD ELEV 26

RNP RWY 07
WITTMUNDHAFEN (ETNT)

BREMEN RADAR 240.600 124.800		WITTMUND RADAR 298.250 131.015		WITTMUND TOWER 247.950 118.730 122.100		
APP COURSE 074°	FAF ALT 2000	GS 3° / 5.2%	DA / MDA See CAT	THR ELEV 23	ALS-LENGTH 900 m	LDA 8005

NOTE:

- GNSS REQUIRED
- BARO-VNAV NOT AUTHORIZED BELOW -30°C.
- CIRCLING NOT AUTHORIZED SOUTH OF RWY 07/25.
- MISSSED APPROACH LIMITED TO 230 KIAS MAX.



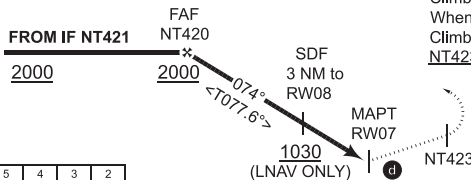
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 2700

TA 5000

MISSSED APPROACH

Climb on course 074° to NT423.
When passing NT423 turn left direct NT400.
Climb to 5000 ft.
NT423 [M074,L]→ NT400 [A5000+; K230-]



Dist THR	6	5	4	3	2
Altitude	2000	1670	1350	1020	710

TCH 50

THR ELEV 23

CAT I

CATEGORY	A	B	C	D	HPMA
LNAV	400 - 1.0 377 (400-1.0/1.5)		400 - 1.0 377 (400-1.0/1.7)		NOT AUTHORIZED
LNAV/VNAV	273 - 0.8/550 250 (300-0.8/1.3)		282 - 0.8/600 259 (300-0.8/1.3)	292 - 0.8 600 269 (300-0.8/1.3)	NOT AUTHORIZED
CIRCLING	490 - 2.2 464 (500-2.2)	560 - 2.4 534 (600-2.4)	1020 - 4.5 994 (1000-4.5)	1060 - 4.9 1034 (1100-4.9)	580 - 3.2 554 (600-3.2)

RNP RWY 07

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)

CHANGE: CIRCLING (154/26)

ACC 06 AUG 2026

RNP RWY 07 FROM NT400:

	CODING	DISPLAY
NT400 (IAF)	53 43 00.34 N 007 39 02.48 E	53 43.006 N 007 39.041 E
NT422 (TF)	53 39 21.06 N 007 17 33.15 E	53 39.351 N 007 17.552 E
NT421 (IF)	53 30 23.25 N 007 20 52.42 E	53 30.388 N 007 20.874 E
NT420 (FAF)	53 31 27.35 N 007 29 03.32 E	53 31.456 N 007 29.055 E
RW07 (MAPT)	53 32 44.17 N 007 38 57.87 E	53 32.736 N 007 38.964 E
NT423 (TF)	53 33 48.58 N 007 47 21.78 E	53 33.810 N 007 47.363 E
NT400 (MAHF)	53 43 00.34 N 007 39 02.48 E	53 43.006 N 007 39.041 E

RNP RWY 07 FROM NT425:

	CODING	DISPLAY
NT425 (IAF)	53 29 18.59 N 007 12 41.94 E	53 29.310 N 007 12.699 E
NT421 (IF)	53 30 23.25 N 007 20 52.42 E	53 30.388 N 007 20.874 E
NT420 (FAF)	53 31 27.35 N 007 29 03.32 E	53 31.456 N 007 29.055 E
RW07 (MAPT)	53 32 44.17 N 007 38 57.87 E	53 32.736 N 007 38.964 E
NT423 (TF)	53 33 48.58 N 007 47 21.78 E	53 33.810 N 007 47.363 E
NT400 (MAHF)	53 43 00.34 N 007 39 02.48 E	53 43.006 N 007 39.041 E

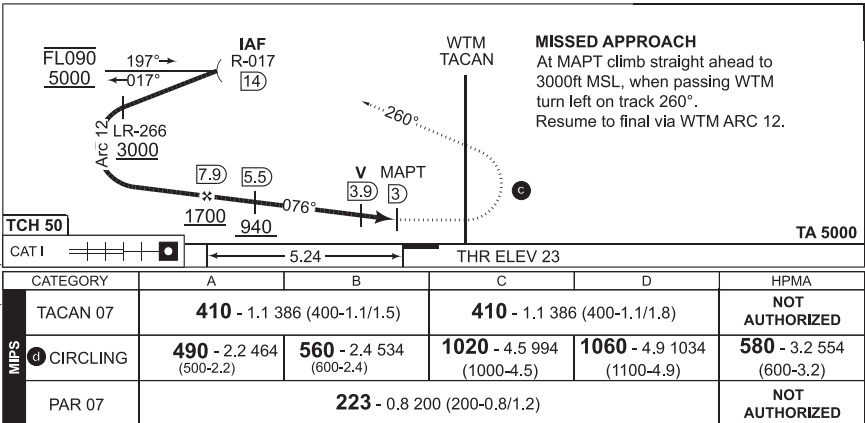
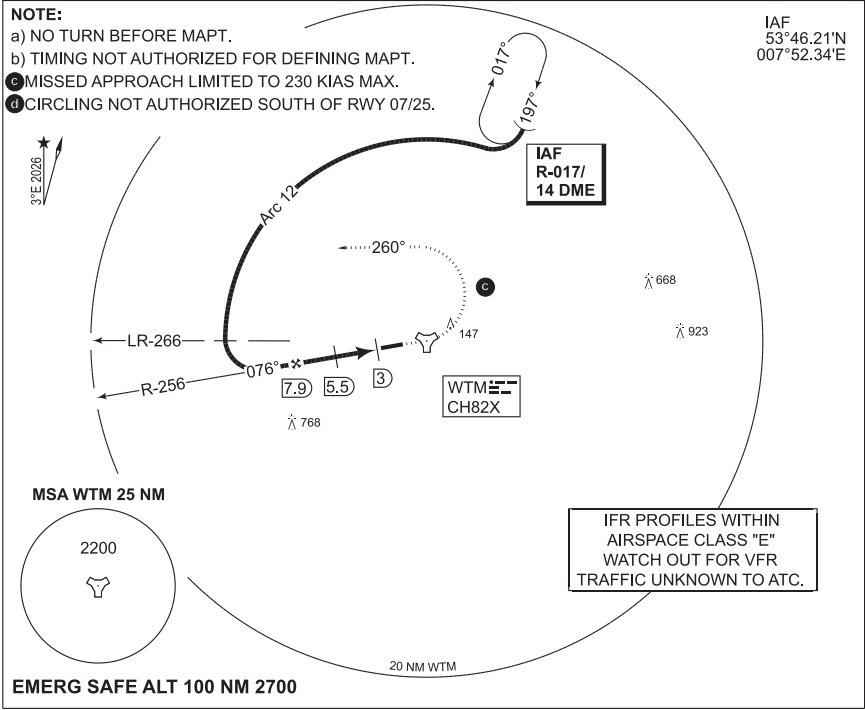
Threshold Coordinates

RWY 07	53 32 44.17 N 007 38 57.87 E	53 32.736 N 007 38.964 E
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PANS-OPS
INSTRUMENT APPROACH CHART

TACAN RWY 07
WITTMUNDHAFEN (ETNT)

BREMEN RADAR		WITTMUND RADAR			WITTMUND TOWER		
240.600 124.800		298.250 131.015			247.950 118.730 122.100		
TACAN WTM CH82X	APP COURSE 076°	FAF ALT 1700	DESCENT GR 5.2%	MDA 410	THR ELEV 23	ALS-LENGTH 900 m	LDA 8005



TACAN RWY 07

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)

CHANGE: CIRCLING (154/26)

ACC 06 AUG 2026

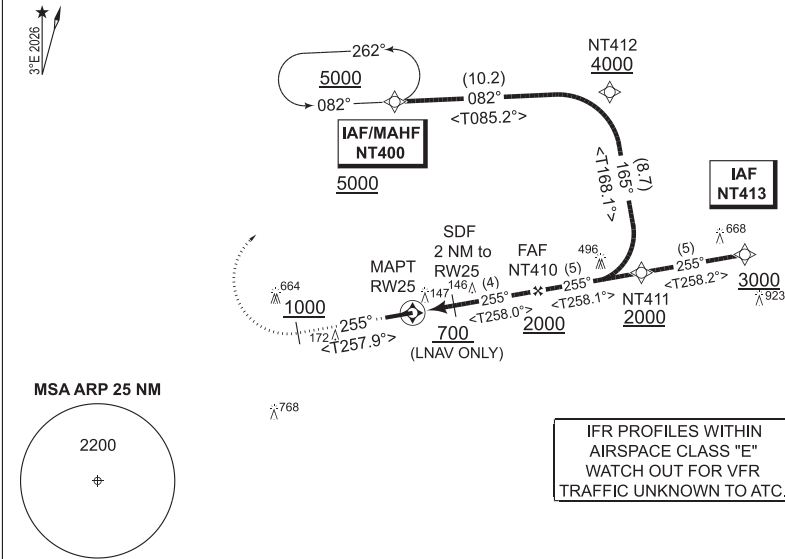
PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 26

RNP RWY 25
WITTMUNDHAFEN (ETNT)

BREMEN RADAR 240.600 124.800		WITTMUND RADAR 298.250 131.015		WITTMUND TOWER 247.950 118.730 122.100		
APP COURSE 255°	FAF ALT 2000	GS 3° / 5.2%	DA / MDA See CAT	THR ELEV 18	ALS-LENGTH 900 m	LDA 8005

- NOTE:**
a) GNSS REQUIRED
b) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
c) CIRCLING NOT AUTHORIZED SOUTH OF RWY 07/25.



EMERG SAFE ALT 100 NM 2700

MISSED APPROACH TA 5000

Climb on track 255° to altitude 5000 ft.
When passing 1000 ft turn right direct NT400.
[M255, A1000;R]→ NT400 [A5000+]

FROM IF NT411

FAF NT410 2000

SDF 2 NM to RW25

MAPT RW25 700 (LNAV ONLY)

1000

THR ELEV 18

TCH 50

CAT I

CATEGORY	A	B	C	D	HPMA
LNAV	400 - 1.1 382 (400-1.1/1.5)		400 - 1.1 382 (400-1.1/1.8)		NOT AUTHORIZED
LNAV/VNAV	277 - 0.8/600 259 (300-0.8/1.3)	289 - 0.8/600 271 (300-0.8/1.3)	297 - 0.8/600 279 (300-0.8/1.3)	308 - 0.8/650 290 (300-0.8/1.4)	NOT AUTHORIZED
CIRCLING	490 - 2.2 464 (500-2.2)	560 - 2.4 534 (600-2.4)	1020 - 4.5 994 (1000-4.5)	1060 - 4.9 1034 (1100-4.9)	580 - 3.2 554 (600-3.2)

RNP RWY 25

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)

CHANGE: CIRCLING (154/26)

ACC 06 AUG 2026

RNP RWY 25 FROM NT400:

	CODING	DISPLAY
NT400 (IAF)	53 43 00.34 N 007 39 02.48 E	53 43.006 N 007 39.041 E
NT412 (TF)	53 43 50.50 N 007 56 14.51 E	53 43.842 N 007 56.242 E
NT411 (IF)	53 35 18.91 N 007 59 16.45 E	53 35.315 N 007 59.274 E
NT410 (FAF)	53 34 16.83 N 007 51 04.07 E	53 34.280 N 007 51.068 E
RW25 (MAPT)	53 33 00.79 N 007 41 07.42 E	53 33.013 N 007 41.124 E
NT400 (MAHF)	53 43 00.34 N 007 39 02.48 E	53 43.006 N 007 39.041 E

RNP RWY 25 FROM NT413:

	CODING	DISPLAY
NT413 (IAF)	53 36 20.66 N 008 07 29.14 E	53 36.344 N 008 07.486 E
NT411 (IF)	53 35 18.91 N 007 59 16.45 E	53 35.315 N 007 59.274 E
NT410 (FAF)	53 34 16.83 N 007 51 04.07 E	53 34.280 N 007 51.068 E
RW25 (MAPT)	53 33 00.79 N 007 41 07.42 E	53 33.013 N 007 41.124 E
NT400 (MAHF)	53 43 00.34 N 007 39 02.48 E	53 43.006 N 007 39.041 E

Threshold Coordinates

RWY 25	53 33 00.79 N 007 41 07.42 E	53 33.013 N 007 41.124 E
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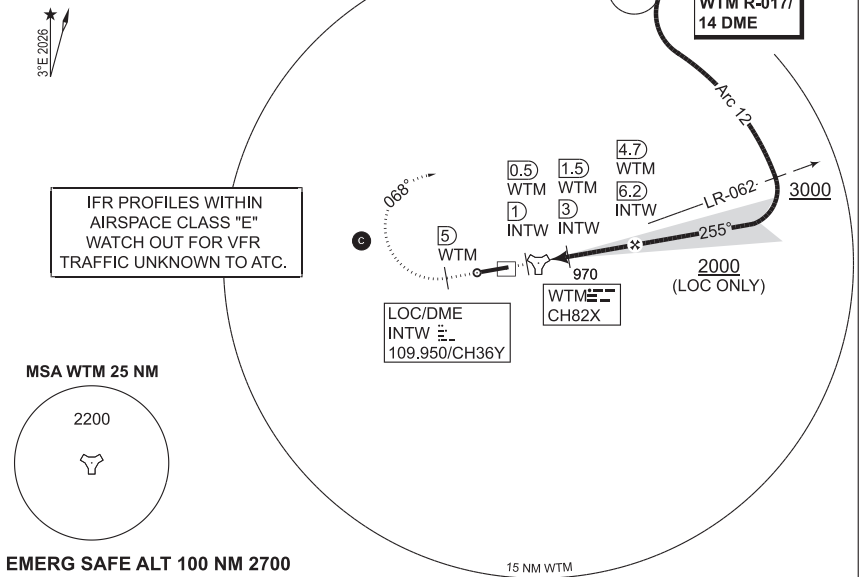
PANS-OPS INSTRUMENT APPROACH CHART

ILS or LOC RWY 25
WITTMUNDHAFEN (ETNT)

BREMEN RADAR 240.600 124.800		WITTMUND RADAR 298.250 131.015		WITTMUND TOWER 247.950 118.730 122.100	
TACAN / LOCALIZER CH 82X / INTW 109.95	APP COURSE 255°	GS INTCP ALT 2000	DA 219	DESCENT GR 3.0°/ 5.2%	THR ELEV 18
				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 07/25.



MISSED APPROACH

At MAPT climb straight ahead to 3000 ft MSL, when passing WTM 5 DME turn right on track 068°. Resume to final via WTM ARC 12.

DIST INTW	1	2	3	4	5	6
ALTITUDE	330	650	970	1290	1610	1920

THR ELEV 18	6.1	CAT I	TCH 32
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CATEGORY	A	B	C	D	HPMA
ILS 25	219 - 0.8 550 200 (200-0.8/1.2)				NOT AUTHORIZED
LOC 25	490 - 1.5 471 (500-1.5)		490 - 1.5 471 (500-1.5/2.2)		NOT AUTHORIZED
d CIRCLING	490 - 2.2 464 (500-2.2)	560 - 2.4 534 (600-2.4)	1020 - 4.5 994 (1000-4.5)	1060 - 4.9 1034 (1100-4.9)	580 - 3.2 554 (600-3.2)

ILS or LOC RWY 25

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)

PANS-OPS
INSTRUMENT APPROACH CHART

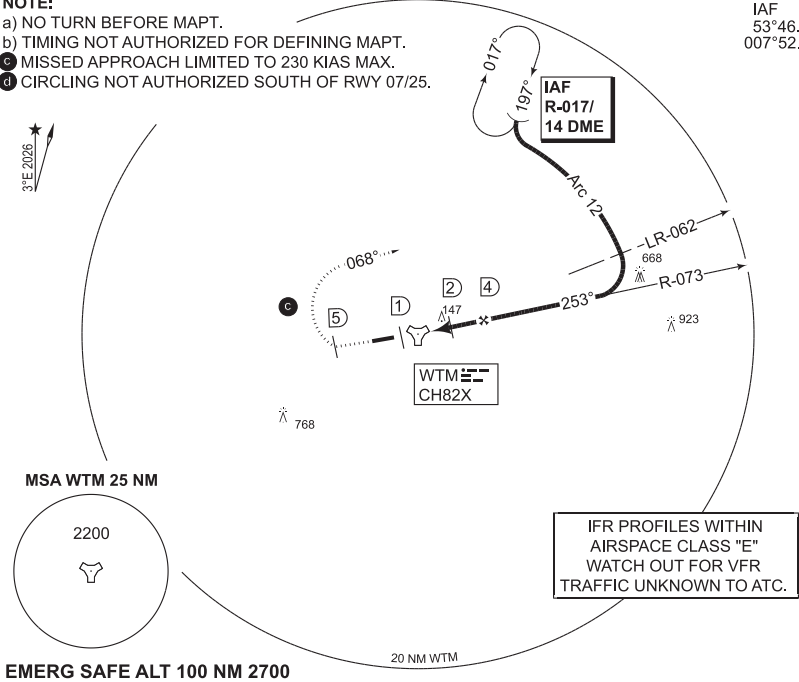
TACAN RWY 25
WITTMUNDHAFEN (ETNT)

BREMEN RADAR 240.600 124.800		WITTMUND RADAR 298.250 131.015		WITTMUND TOWER 247.950 118.730 122.100		
TACAN WTM CH82X	APP COURSE 253°	FAF ALT 1800	DESCENT GR 5.2%	MDA 400	THR ELEV 18	ALS-LENGTH 900 m
				LDA 8005		

NOTE:

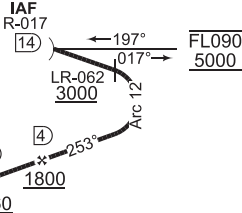
- a) NO TURN BEFORE MAPT.
- b) TIMING NOT AUTHORIZED FOR DEFINING MAPT.
- c) MISSED APPROACH LIMITED TO 230 KIAS MAX.
- d) CIRCLING NOT AUTHORIZED SOUTH OF RWY 07/25.

IAF
53°46.21'N
007°52.34'E



MISSED APPROACH

At MAPT climb straight ahead to 3000ft MSL, when passing WTM 5 DME turn right on track 068°. Resume to final via WTM ARC 12.



TA 5000

TCH 50

THR ELEV 18		5.44		CAT I	
CATEGORY	A	B	C	D	HPMA
TACAN 25	400 - 1.1 381 (400-1.1/1.5)		400 - 1.1 381 (400-1.1/1.8)		NOT AUTHORIZED
d CIRCLING	490 - 2.2 464 (500-2.2)	560 - 2.4 534 (600-2.4)	1020 - 4.5 994 (1000-4.5)	1060 - 4.9 1034 (1100-4.9)	580 - 3.2 554 (600-3.2)
PAR 25	219 - 0.8 200 (200-0.8/1.2)				NOT AUTHORIZED

TACAN RWY 25

53°32.87'N
007°40.04'E

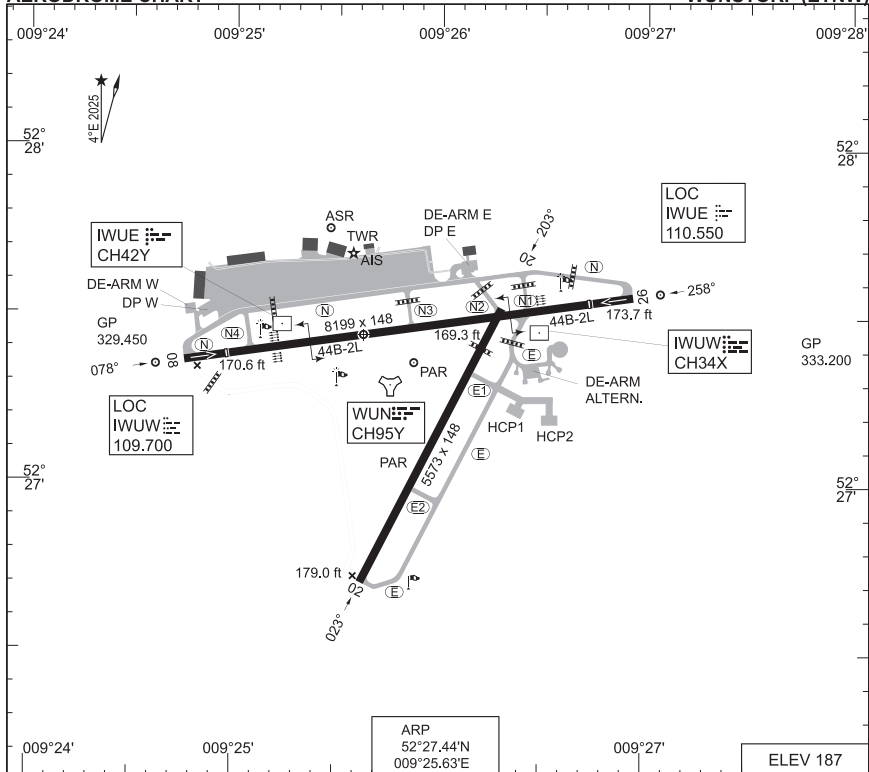
WITTMUNDHAFEN (ETNT)

CHANGE: CIRCLING (154/25)

ACC 06 AUG 2026

AERODROME CHART

WUNSTORF (ETNW)



RWY	PCN / LCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN
02	LCN 65	5573	5573	5573	5573	-	187	52°26.70'N 009°25.63'E
20	LCN 65	5573	5573	5573	5573	-	181	52°27.52'N 009°26.30'E
08	PCN 92 R/A/W/T	8199	8199	8199	7385	3.0°	173	52°27.38'N 009°24.97'E
26	PCN 92 R/A/W/T	8199	8199	8199	7457	3.0°	174	52°27.54'N 009°26.74'E

WUNSTORF TOWER 356.100 257.800 132.055
WUNSTORF RADAR 389.400 378.500 124.655 SSR 4260 - 4267

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	02	3.0°	50		773	ABCDE	MIPS	387 - 0.8 200 (200-0.8/1.2)
	PANS-OPS	20	3.0°	50		767	AB	MIPS	380 - 0.8 200 (200-0.8/1.2)
	PANS-OPS	08	3.0°	54			CDE		380 - 1.2 200 (200-1.2)
	PANS-OPS	26	3.0°	50			ABCD	MIPS	371 - 0.8 200 (200-0.8/1.2)
SRA	PANS-OPS	02					AB	MIPS	740 - 0.8 553 (600-0.8/1.6)
							C		740 - 1.6 553 (600-1.6/2.4)
							D		740 - 2.0 553 (600-2.0/2.8)
							E		740 - 2.4 553 (600-2.4/3.2)
	PANS-OPS	20					ABC	MIPS	560 - 1.2 380 (400-1.2/1.6)
							DE	MIPS	560 - 1.6 380 (400-1.6/2.0)
	PANS-OPS	08					ABCDE	MIPS	560 - 1.1 389 (400-1.1/1.8)
	PANS-OPS	26					AB	MIPS	720 - 1.5 546 (600-1.5/2.4)
							CDE	MIPS	720 - 1.8 546 (600-1.8/2.4)

AERODROME CHART

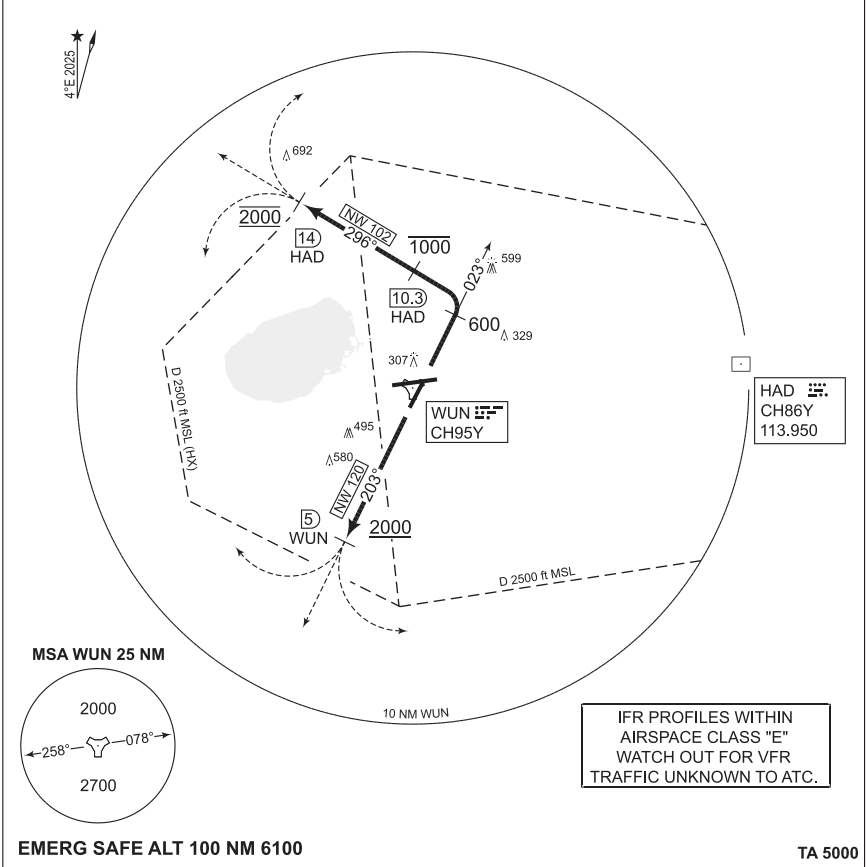
WUNSTORF (ETNW)

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 187

NW 102 - 120
WUNSTORF (ETNW)

WUNSTORF TOWER			WUNSTORF RADAR					BREMEN RADAR			
356.100 132.055			389.400	124.655	123.300			259.725	119.490		
			RWY	from - to	60	120	180	240	300	360	Reason
			02	1000 ft - 2000 ft	262	524	-	-	--	-	ATC
			20	DER - 2000 ft	407	814	1221	1628	2035	2442	ATC



EMERG SAFE ALT 100 NM 6100		TA 5000
NW 102 (RWY 02)	NOTE: NW102 restricted to CAT A and B only Departure turn limited to MAX KIAS 150 - After takeoff climb on track 023° - When passing 600 ft turn left to track 296° - Pass HAD/10.3 DME not above 1000 ft - Pass HAD/14 DME at 2000 ft - Proceed as cleared by ATC	
NW 120 (RWY 20)	NOTE: NW120 restricted to CAT A-D only - After takeoff climb on track 203° to WUN/5 DME - Pass WUN/5 DME at 2000 ft or above - Continue as cleared by ATC	

NW 102 - 120

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

CHANGE EDITORIAL (079/26)

ACC 16 APR 2026

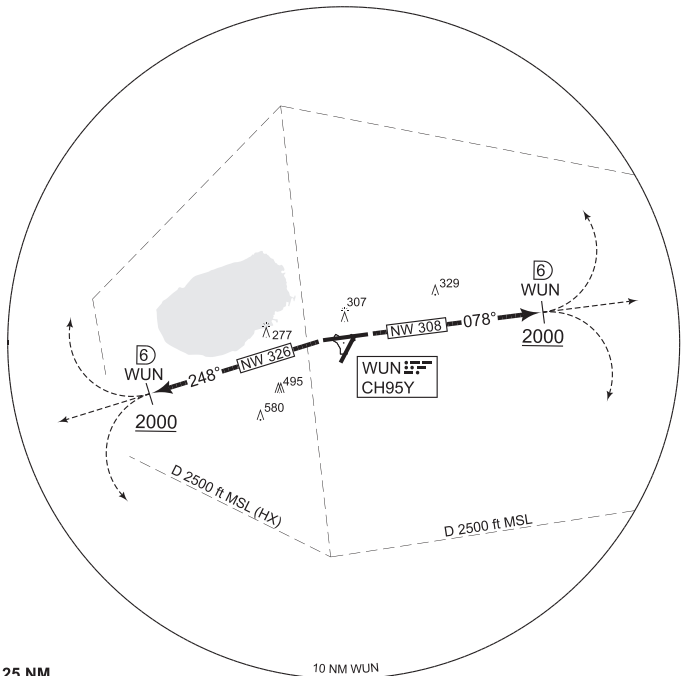
PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 187

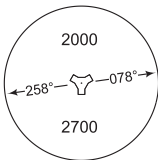
NW 308 - 326
WUNSTORF (ETNW)

WUNSTORF TOWER		WUNSTORF RADAR					BREMEN RADAR			
356.100	132.055	389.400	124.655	123.300			259.725	119.490		
		RWY	Knots	60	120	180	240	300	360	to
		08	V/V (fpm)	340	680	1020	1380	1720	2080	2000 ft
		26	V/V (fpm)	334	668	1002	1336	1670	2004	2000 ft

NOTE:
NO TURN BEFORE DER.



MSA WUN 25 NM



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 6100

TA 5000

NW 308 (RWY 08)	- Climb on track 078° to 2000 ft - Continue as cleared by ATC CLIMB RESTRICTION: Reach 2000 ft within WUN/ 6 DME
NW 326 (RWY 26)	- Climb on track 248° to 2000 ft - Continue as cleared by ATC CLIMB RESTRICTION: Reach 2000 ft within WUN/ 6 DME

NW 308 - 326

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

CHANGE EDITORIAL (079/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 187

CEL 1A - 1B
WUNSTORF (ETNW)

WUNSTORF TOWER
356.100 132.055

WUNSTORF RADAR
389.400 124.655 123.300

BREMEN RADAR
259.725 119.490

CAUTION:

a) ANTENNA LOCATED 137 M BEHIND END OF RWY08 121 M SOUTH OF CENTERLINE 211 FT.

NOTE:

b) RNAV 1 NAVIGATION APPLICATION:

- GNSS REQUIRED.
- DME/DME NOT AUTHORIZED.



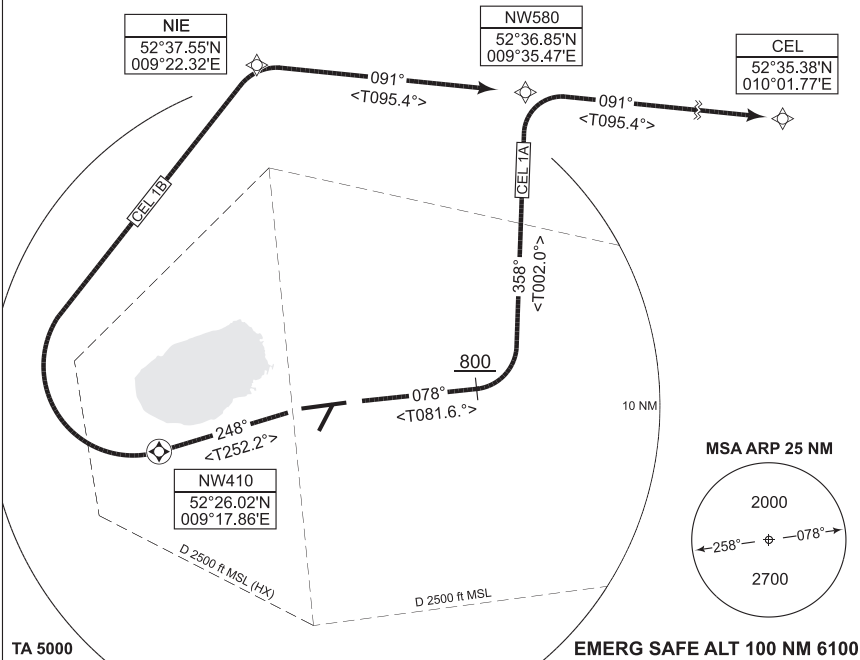
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

NIE
52°37.55'N
009°22.32'E

NW580
52°36.85'N
009°35.47'E

CEL
52°35.38'N
010°01.77'E

NW410
52°26.02'N
009°17.86'E



TA 5000

EMERG SAFE ALT 100 NM 6100

CEL 1A
(RWY 08)

- Climb on track 078° at or above 800 ft
 - To NW580 on course 358°
 - To CEL at 220 KIAS MAX
 - Initial climb 4000 ft
- GPS/FMS RNAV: [M078; A800+;L] - NW580 [M358;R] - CEL [K220-]

CEL 1B
(RWY 26)

- To NW410 on course 248°
 - Direct to NIE
 - To CEL at 250 KIAS MAX
 - Initial climb 4000 ft
- GPS/FMS RNAV: NW410 [M248;R] - NIE - CEL [K250-]

CHANGE: EDITORIAL (186/25)

ACC 19 FEB 2026

CEL 1A - 1B

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 187

NIE 1A - 1B
WUNSTORF (ETNW)

WUNSTORF TOWER
356.100 132.055

WUNSTORF RADAR
389.400 124.655 123.300

BREMEN RADAR
259.725 119.490

CAUTION:

a) ANTENNA LOCATED 137 M BEHIND END OF RWY08 121 M SOUTH OF CENTERLINE 211 FT.

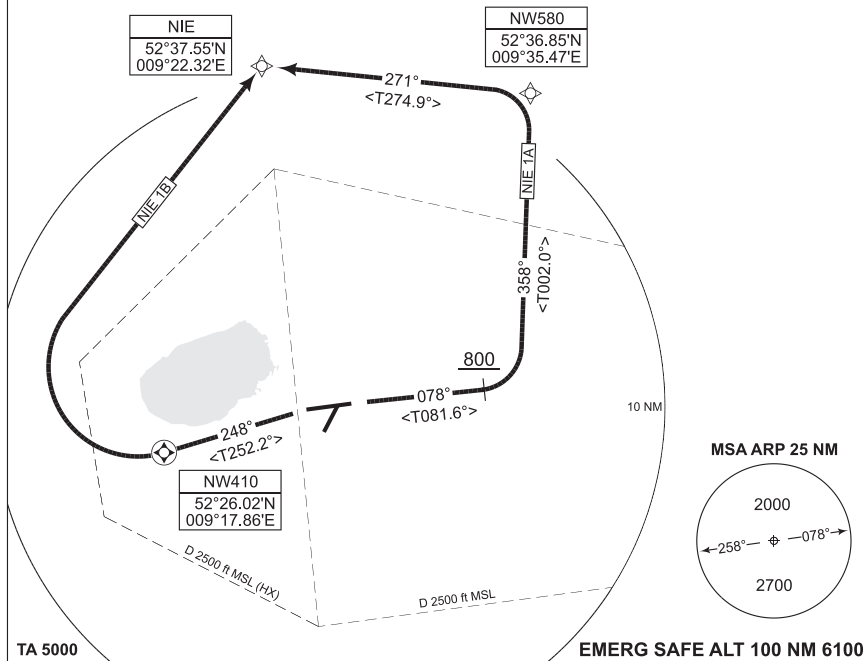
NOTE:

b) RNAV 1 NAVIGATION APPLICATION:

- GNSS REQUIRED.
- DME/DME NOT AUTHORIZED.



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



TA 5000

EMERG SAFE ALT 100 NM 6100

NIE 1A
(RWY 08)

- Climb on track 078° at or above 800 ft
 - To NW580 on course 358°
 - To NIE at 220 KIAS MAX
 - Initial climb 4000 ft
- GPS/FMS RNAV: [M078; A800+;L] - NW580 [M358;L] - NIE [K220-]

NIE 1B
(RWY 26)

- To NW410 on course 248°
 - Direct to NIE at 250 KIAS MAX
 - Initial climb 4000 ft
- GPS/FMS RNAV: NW410 [M248;R] - NIE [K250-]

CHANGE: EDITORIAL (186/25)

ACC 19 FEB 2026

NIE 1A - 1B

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 187

SAS 1A
WUNSTORF (ETNW)

WUNSTORF TOWER
356.100 132.055

WUNSTORF RADAR
389.400 124.655 123.300

BREMEN RADAR
259.725 119.490

CAUTION:

a) ANTENNA LOCATED 137 M BEHIND END OF RWY08 121 M SOUTH OF CENTERLINE 211 FT.

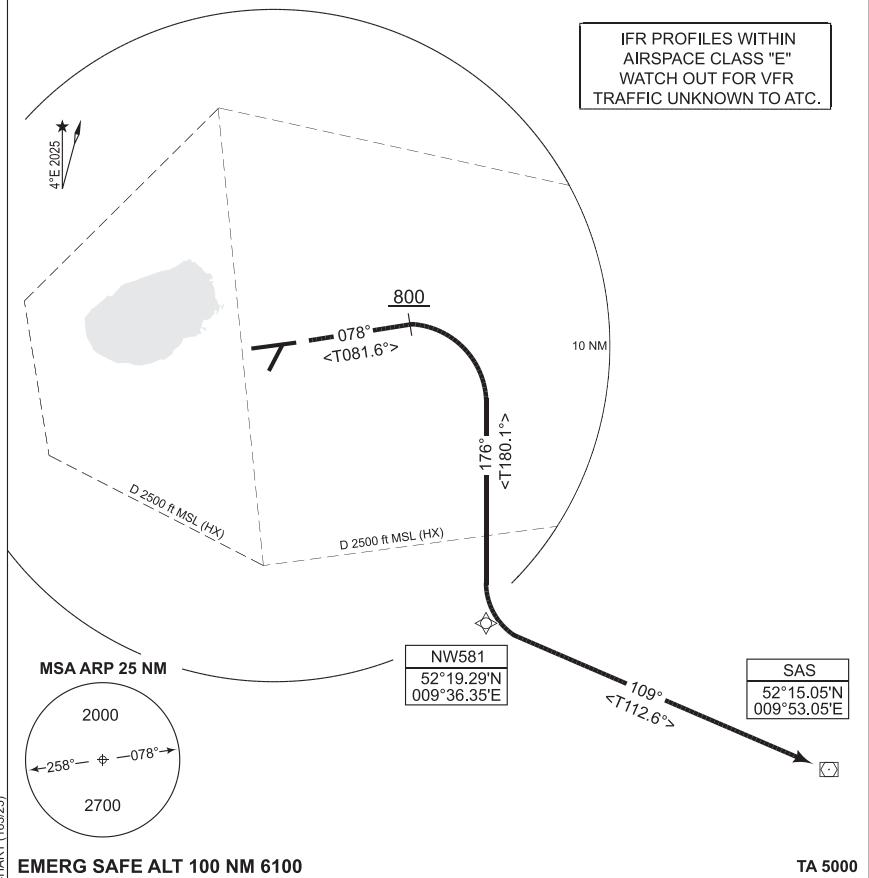
NOTE:

b) RNAV 1 NAVIGATION APPLICATION:

- GNSS REQUIRED.
- DME/DME NOT AUTHORIZED.

c) PROCEDURE LIMITED TO 220 KIAS MAX,
UNTIL PASSING NW581.

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



CHANGE: REVISED CHART (16/3/25)

ACC 25 DEC 2025

SAS 1A

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

SAS 1A
(RWY 08)

- Climb on track 078° at or above 800 ft
- To NW581 on course 176° at 220 KIAS MAX
- To SAS
- Initial climb 4000 ft

GPS/FMS RNAV: [M078; A800+;R] - NW581 [M176;K220-;L] - SAS

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 187

ROBEG 1A - 1B
WUNSTORF (ETNW)

WUNSTORF TOWER
356.100 132.055

WUNSTORF RADAR
389.400 124.655 123.300

BREMEN RADAR
259.725 119.490

CAUTION:

a) ANTENNA LOCATED 137 M BEHIND END OF RWY08 121 M SOUTH OF CENTERLINE 211 FT.

NOTE:

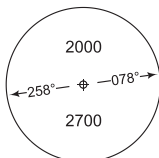
b) RNAV 1 NAVIGATION APPLICATION:

- GNSS REQUIRED.
- DME/DME NOT AUTHORIZED.



IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

MSA ARP 25 NM



EMERG SAFE ALT 100 NM 6100

TA 5000

- Climb on track 078° at or above 800 ft
- To NW581 on course 176° at 220 KIAS MAX
- To ROBEG
- Initial climb 4000 ft

GPS/FMS RNAV: [M078; A800+;R] - NW581 [M176;K220-;R] - ROBEG

ROBEG 1A
(RWY 08)

- To NW410 on course 248°
- Direct to ROBEG at 250 KIAS MAX
- Initial climb 4000 ft

GPS/FMS RNAV: NW410 [M248;L] - ROBEG [K250]

ROBEG 1B
(RWY 26)

52°27.44'N
009°25.63'E

ROBEG 1A - 1B

WUNSTORF (ETNW)

PANS-OPS INSTRUMENT DEPARTURE CHART

AD ELEV 187

VAXEV 1A - 1B
WUNSTORF (ETNW)

WUNSTORF TOWER
356.100 132.055

WUNSTORF RADAR
389.400 124.655 123.300

BREMEN RADAR
259.725 119.490

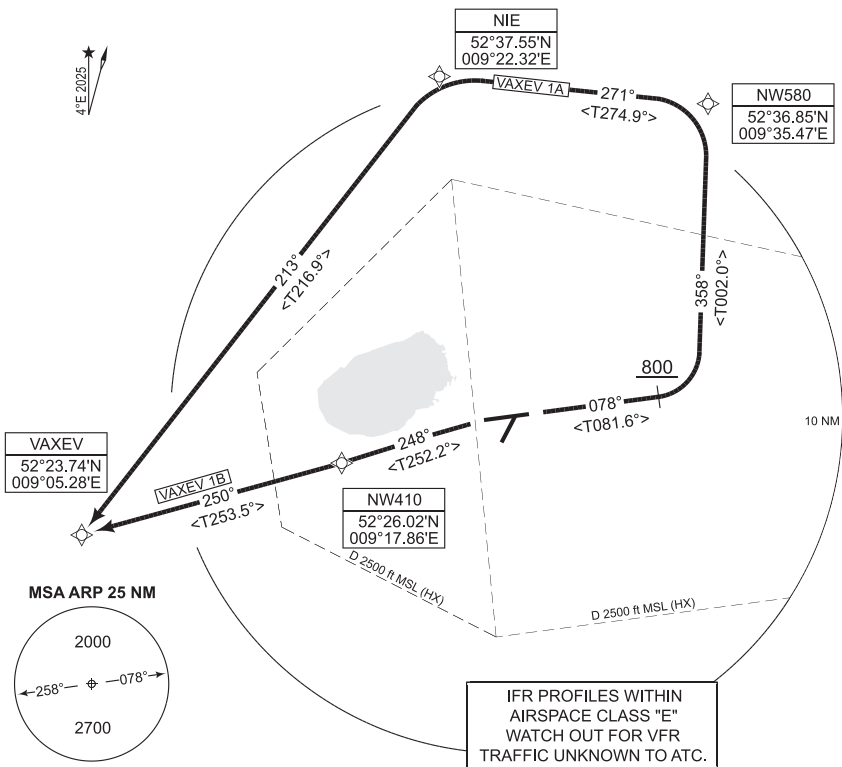
CAUTION:

a) ANTENNA LOCATED 137 M BEHIND END OF RWY08 121 M SOUTH OF CENTERLINE 211 FT.

NOTE:

b) RNAV 1 NAVIGATION APPLICATION:

- GNSS REQUIRED.
- DME/DME NOT AUTHORIZED.



EMERG SAFE ALT 100 NM 6100

TA 5000

VAXEV 1A (RWY 08)	- Climb on track 078° at or above 800 ft - To NW580 on course 358° - To NIE at 220 KIAS MAX - To VAXEV - Initial climb 4000 ft GPS/FMS RNAV: [M078; A800+;L] - NW580 [M358;L] - NIE [K220;-;L] - VAXEV
VAXEV 1B (RWY 26)	- To NW410 on course 248° - To VAXEV at 250 KIAS MAX - Initial climb 4000 ft. GPS/FMS RNAV: NW410 [M248] - VAXEV [K250-]

VAXEV 1A - 1B

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

INSTRUMENT APPROACH CHART

AD ELEV 187

WUNSTORF (ETNW)

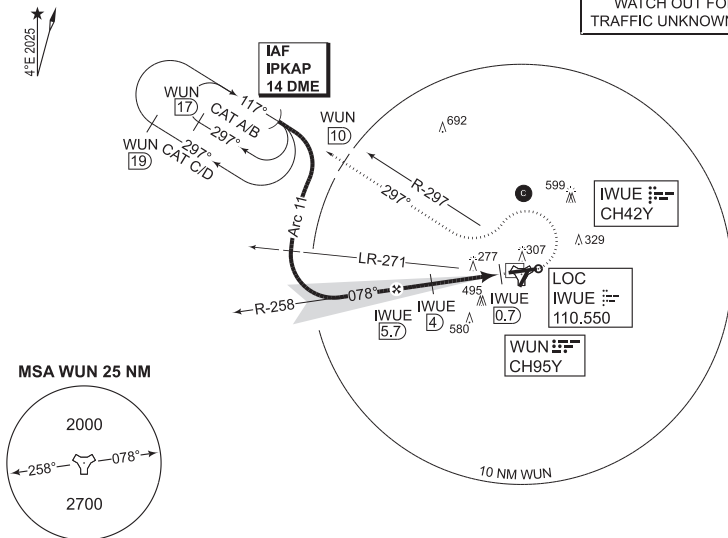
BREMEN RADAR		WUNSTORF RADAR			WUNSTORF TOWER		
259.725	119.490	389.400	124.655	123.300	356.100	132.055	
TACAN/LOC	APP COURSE	GS INTCP ALT	GS	DA/MDA	TDZE	ALS-LENGTH	LDA
WUN CH95/IWUE 110.550	078°	2000	3.0° / 5.2%	373/530	173	900 m	7385

NOTE:

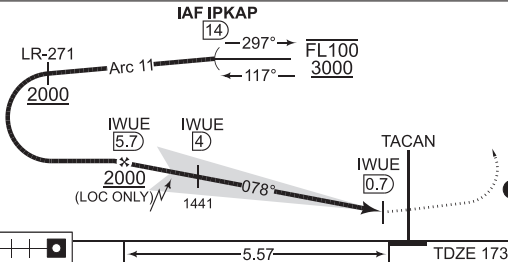
- a) NO TURN BEFORE MAPT.
- b) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
- c) MISSED APCH TURN LIMITED TO 220 KIAS MAX.**
- d) TACAN REQUIRED.

IAF IPKAP
52°34.37'N
009°06.62'E

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 6100



TA 5000

MISSED APPROACH

Climb straight ahead to 1500 ft. when passing 700 ft turn left to intercept WUN R-297. At WUN/10 DME continue climb to 3000 ft and enter holding.

TCH 54

CATEGORY		A	B	C	D
MIPS	ILS Z 08 CAT I	373 - 0.8/550 200 (200-0.8/1.2)			
	LOC Z 08	530 - 0.8 357 (400-0.8/1.2)		530 - 1.2 357 (400-1.2/1.6)	530 - 1.2 357 (400-1.2/2.0)
	CIRCLING	680 - 2.3 493 (500-2.3)	790 - 2.8 603 (700-2.8)	1000 - 3.8 813 (900-3.8)	1160 - 4.5 973 (1000-4.5)

ILS Z or LOC RWY 08

52°27.44'N
009°25.63'E

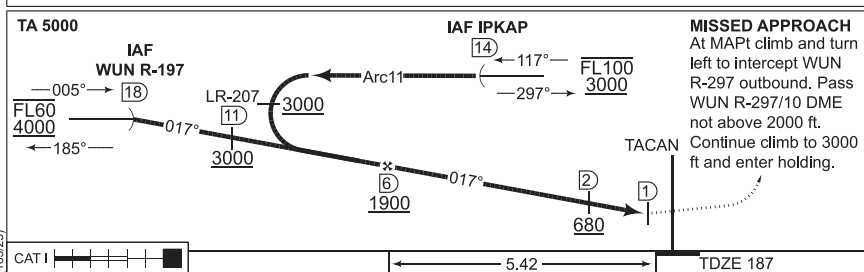
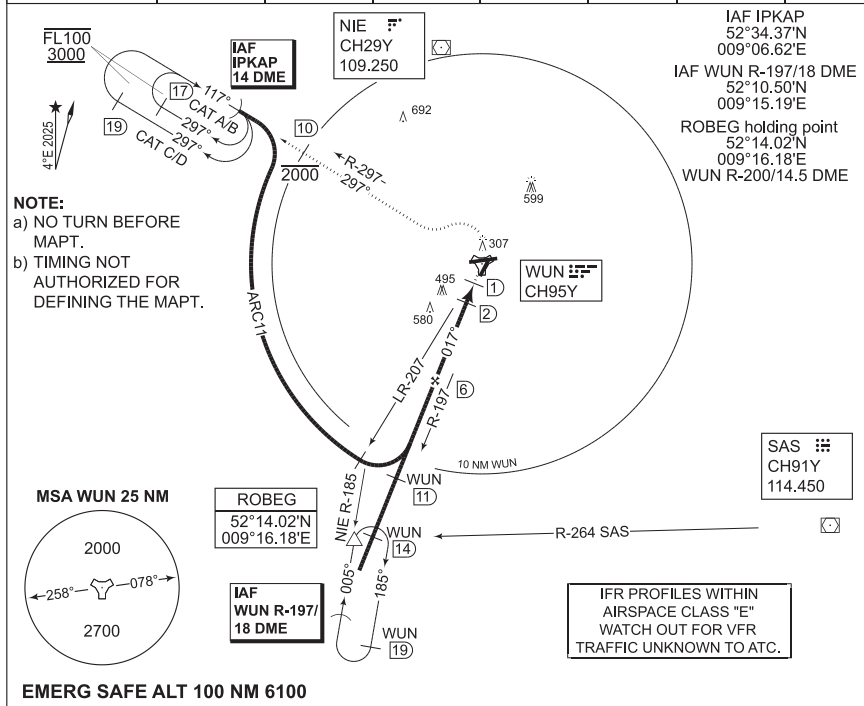
WUNSTORF (ETNW)

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 187

TACAN RWY 02
WUNSTORF (ETNW)

BREMEN RADAR 259.725 119.490		WUNSTORF RADAR 389.400 124.655 123.300			WUNSTORF TOWER 356.100 132.055		
TACAN WUN CH95Y	APP COURSE 017°	FAF ALT 1900	DESCENT GR 5.2%	MDA 560	TDZE 187	ALS-LENGTH 774 M	LDA 5573



CATEGORY	A	B	C	D
S-TACAN 02	560 - 0.8 373 (400-0.8/1.6)		560 - 1.2 373 (400-1.2/1.6)	560 - 1.2 373 (400-1.2/2.0)
CIRCLING	680 - 2.3 493 (500-2.3)	790 - 2.8 603 (700-2.8)	1000 - 3.8 813 (900-3.8)	1160 - 4.5 973 (1000-4.5)
PAR 02	387 - 0.8 200 (200-0.8/1.2) GS 3.0°			

TACAN RWY 02

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 187

RNP RWY 02
WUNSTORF (ETNW)

BREMEN RADAR 259.725 119.490		WUNSTORF RADAR 389.400 124.655 123.300			WUNSTORF TOWER 356.100 132.055		
APP COURSE 023°	FAF ALT 2000	DESCENT GR 3.0° / 5.2%	MDA See CAT	THR ELEV 179	ALS-LENGTH 774 M	LDA 5573	

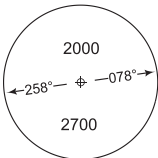
NOTE:

- a) NAVIGATION SENSOR: GNSS ONLY.
- b) NAVIGATION SPECIFICATION:
RNAV 1 UNTIL NW621, RNP APCH THEREAFTER.
- c) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
- d) NO TURN BEFORE MAPT.

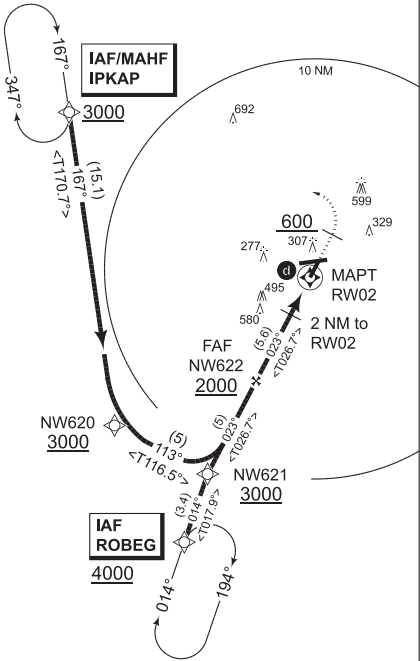


IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

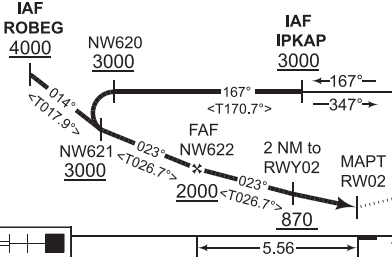
MSA ARP 25 NM



EMERG SAFE ALT 100 NM 6100



TA 5000

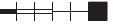


MISSED APPROACH

Climb on track 023° at or above 600 ft,
turn left direct to IPKAP, climb to 3000 ft.
[M023 A600+;L]→IPKAP [A3000+]

TCH 50

CAT I



5.56

THR ELEV 179

Distance THR	5	4	3	2	1
Altitude	1810	1490	1180	870	550

CATEGORY	A	B	C	D
LNNAV	590 - 1.2 411 (500-1.2/1.5)		590 - 1.2 411 (500-1.2/1.9)	
LNNAV/VNAV	432 - 0.8 253 (300-0.8/1.3)	444 - 0.8 265 (300-0.8/1.3)	453 - 0.8 274 (300-0.8/1.3)	463 - 0.8 284 (300-0.8/1.4)
CIRCLING	680 - 2.3 493 (500-2.3)	790 - 2.8 603 (700-2.8)	1000 - 3.8 813 (900-3.8)	1160 - 4.5 973 (1000-4.5)

RNP RWY 02

52°27.44"N
009°25.63"E

WUNSTORF (ETNW)

CHANGE: REVISED CHART (16/3/25)

ACC 25 DEC 2025

RNP RWY 02 FROM IPKAP:

	CODING	DISPLAY
IPKAP (IAF)	52 34 22.20 N 009 06 37.20 E	52 34.370 N 009 06.620 E
NW620	52 19 30.72 N 009 10 36.56 E	52 19.512 N 009 10.609 E
NW621 (IF)	52 17 16.75 N 009 17 53.72 E	52 17.279 N 009 17.895 E
NW622 (FAF)	52 21 44.55 N 009 21 32.91 E	52 21.742 N 009 21.548 E
RW02 (MAPT)	52 26 42.22 N 009 25 37.53 E	52 26.704 N 009 25.625 E
IPKAP (MAHF)	52 34 22.20 N 009 06 37.20 E	52 34.370 N 009 06.620 E

RNP RWY 02 FROM ROBEG:

	CODING	DISPLAY
ROBEG (IAF)	52 14 01.02 N 009 16 10.63 E	52 14.017 N 009 16.177 E
NW621 (IF)	52 17 16.75 N 009 17 53.72 E	52 17.279 N 009 17.895 E
NW622 (FAF)	52 21 44.55 N 009 21 32.91 E	52 21.742 N 009 21.548 E
RW02 (MAPT)	52 26 42.22 N 009 25 37.53 E	52 26.704 N 009 25.625 E
IPKAP (MAHF)	52 34 22.20 N 009 06 37.20 E	52 34.370 N 009 06.620 E

Threshold Coordinates

RWY 02	52 26 42.21 N 009 25 37.53 E	52 26.704 N 009 25.625 E
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PANS-OPS
INSTRUMENT APPROACH CHART

TACAN RWY 08
WUNSTORF (ETNW)

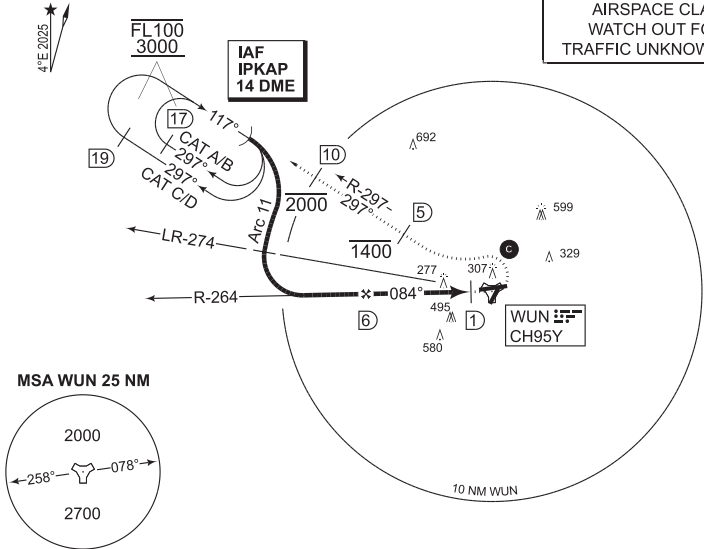
BREMEN RADAR 259.725 119.490		WUNSTORF RADAR 389.400 124.655 123.300			WUNSTORF TOWER 356.100 132.055		
TACAN WUN CH95Y	APP COURSE 084°	FAF ALT 1900	DESCENT GR 5.2%	MDA 550	TDZE 173	ALS-LENGTH 900 M	LDA 7385

NOTE:

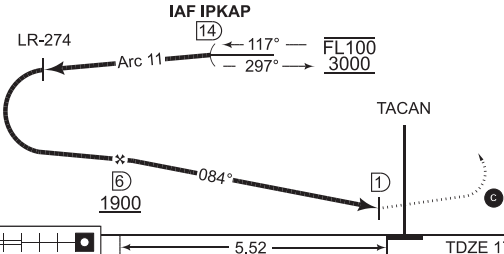
- a) NO TURN BEFORE MAPT.
- b) TIMING NOT AUTHORIZED FOR DEFINING MAPT.
- c) MISSED APCH TURN LIMITED TO MAX KIAS 220.

IAF
52°34.37'N
009°06.62'E

IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 6100



MISSED APPROACH
At MAPt climb and turn left to intercept WUN R-297 outbound. Pass WUN R-297/5 DME not above 1400 ft. Pass WUN R-297/10 DME not above 2000 ft. Continue climb to 3000 ft and enter holding.

TA 5000

CATEGORY		A	B	C	D	E
TACAN 08		550 - 0.8 377 (400-0.8/1.6)		550 - 1.2 377 (400-1.2/1.6)	550 - 1.2 377 (400-1.2/2.0)	NOT AUTHORIZED
CIRCLING		680 - 2.3 493 (500-2.3)	790 - 2.8 603 (700-2.8)	1000 - 3.8 813 (900-3.8)	1160 - 4.5 973 (1000-4.5)	NOT AUTHORIZED

TACAN RWY 08

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

PANS-OPS INSTRUMENT APPROACH CHART

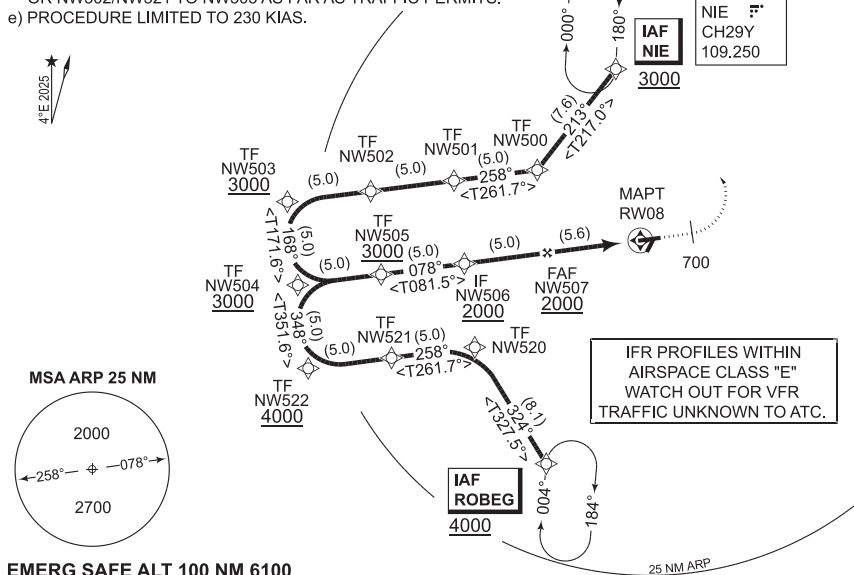
AD ELEV 187

RNP RWY 08
WUNSTORF (ETNW)

BREMEN RADAR 259.725 119.490		WUNSTORF RADAR 389.400 124.655 123.300		WUNSTORF TOWER 356.100 132.055		
APP COURSE 078°	FAF ALT 2000	DESCENT GR 3.0° / 5.2%	MDA See CAT	THR ELEV 171	ALS-LENGTH 900 m	LDA 7385

NOTE:

- NAVIGATION SENSOR: GNSS ONLY.
- NAVIGATION SPECIFICATION: RNAV 1 UNTIL NW506, RNP APCH THEREAFTER.
- BARO-VNAV NOT AUTHORIZED BELOW -15°C.
- EXPECT SHORTCUTS FROM NW501/NW520 TO NW506 OR NW502/NW521 TO NW505 AS FAR AS TRAFFIC PERMITS.
- PROCEDURE LIMITED TO 230 KIAS.



MISSED APPROACH

Climb straight ahead to 3000 ft. When passing 700 ft turn left direct to NIE.
[A700:L] → NIE [A3000]

Dist THR	5	4	3	2	1
Altitude	1810	1490	1170	850	530

TA 5000

TCH 50

CAT I

FROM IF NW506

2000

FAF NW507

2000

078°

<T081.5°

MAPT

RW08

700

5.59

THR ELEV 171

CATEGORY	A	B	C	D
LNAV	550 - 1.1 379 (400-1.1/1.8)		550 - 1.1 379 (400-1.1/2.4)	
LNAV/VNAV	429 - 0.8 258 (300-0.8/1.5)	441 - 0.8 270 (300-0.8/1.5)	449 - 0.8 278 (300-0.8/2.4)	460 - 0.8 289 (300-0.8/2.4)
CIRCLING	680 - 1.5 493 (500-1.5)	800 - 1.5 613 (700-1.5)	1000 - 2.4 813 (900-2.4)	1030 - 3.6 843 (900-3.6)

RNP RWY 08

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

RNP RWY 08 FROM NIE:

	CODING	DISPLAY
NW500 (TF)	52 31 28.27 N 009 14 49.05 E	52 31.471 N 009 14.818 E
NW501 (TF)	52 30 44.73 N 009 06 43.18 E	52 30.746 N 009 06.720 E
NW502 (TF)	52 30 01.19 N 008 58 37.44 E	52 30.020 N 008 58.624 E
NW503 (TF)	52 29 17.66 N 008 50 31.83 E	52 29.294 N 008 50.530 E
NW504 (TF)	52 24 21.30 N 008 51 43.60 E	52 24.355 N 008 51.727 E
NW505 (TF)	52 25 05.40 N 008 59 48.17 E	52 25.090 N 008 59.803 E
NW506 (IF)	52 25 49.49 N 009 07 52.88 E	52 25.825 N 009 07.881 E
NW507 (FAF)	52 26 33.49 N 009 15 56.46 E	52 26.558 N 009 15.941 E
RW08 (MAPt)	52 27 22.82 N 009 24 58.43 E	52 27.380 N 009 24.974 E

RNP RWY 08 FROM ROBEG:

	CODING	DISPLAY
ROBEG (IAF)	52 14 01.02 N 009 16 10.63 E	52 14.017 N 009 16.177 E
NW520 (TF)	52 20 52.02 N 009 09 02.85 E	52 20.867 N 009 09.047 E
NW521 (TF)	52 20 08.48 N 009 00 58.91 E	52 20.141 N 009 00.982 E
NW522 (TF)	52 19 24.94 N 008 52 55.11 E	52 19.416 N 008 52.919 E
NW504 (TF)	52 24 21.30 N 008 51 43.60 E	52 24.355 N 008 51.727 E
NW505 (TF)	52 25 05.40 N 008 59 48.17 E	52 25.090 N 008 59.803 E
NW506 (IF)	52 25 49.49 N 009 07 52.88 E	52 25.825 N 009 07.881 E
NW507 (FAF)	52 26 33.49 N 009 15 56.46 E	52 26.558 N 009 15.941 E
RW08 (MAPt)	52 27 22.82 N 009 24 58.43 E	52 27.380 N 009 24.974 E

Threshold Coordinates

RWY 08	52 27 22.82 N 009 24 58.43 E	52 27.380 N 009 24.974 E
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PANS-OPS INSTRUMENT APPROACH CHART

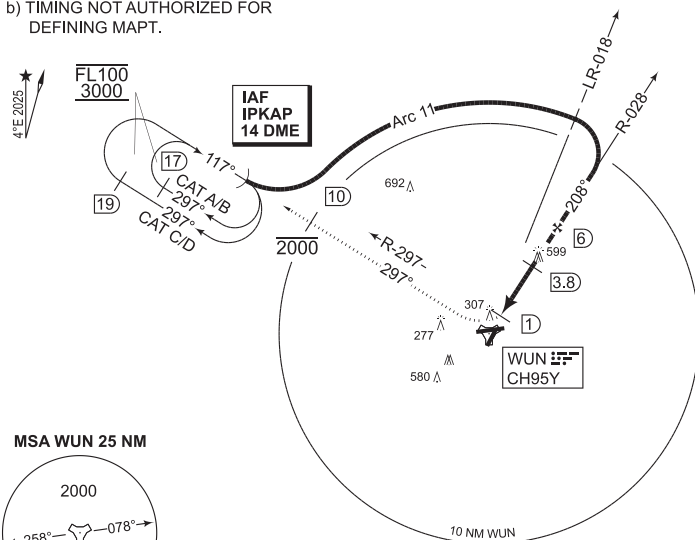
**TACAN RWY 20
WUNSTORF (ETNW)**

BREMEN RADAR 259.725 119.490		WUNSTORF RADAR 389.400 124.655 123.300			WUNSTORF TOWER 356.100 132.055		
TACAN WUN CH95Y	APP COURSE 208°	FAF ALT 2000	DESCENT GR 5.24%	MDA 560	TDZE 181	ALS-LENGTH 422 M	LDA 5573

NOTE:

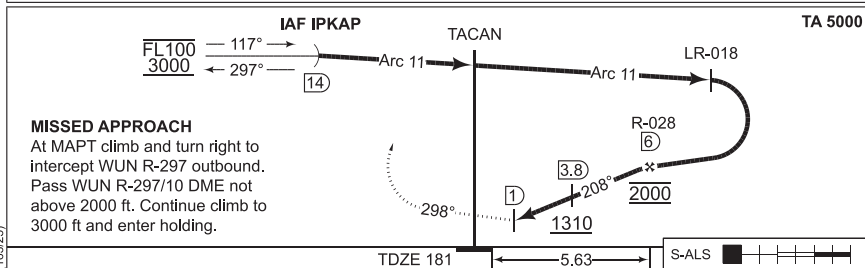
- NO TURN BEFORE MAPT.
- TIMING NOT AUTHORIZED FOR DEFINING MAPT.

IAF
52°34.37'N
009°06.62'E



IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 6100



CATEGORY	A	B	C	D	E
TACAN 20	560 - 0.8 379 (400-0.8/1.6)		560 - 1.2 379 (400-1.2/1.6)	560 - 1.2 379 (400-1.2/2.0)	NOT AUTHORIZED
CIRCLING	680 - 2.3 493 (500-2.3)	790 - 2.8 603 (700-2.8)	1000 - 3.8 813 (900-3.8)	1160 - 4.5 973 (1000-4.5)	NOT AUTHORIZED
PAR 20	380 - 0.8 200 (200-0.8/1.2) GS 3.0°		380 - 1.2 200 (200-1.2) GS 3.0°		

TACAN RWY 20

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 187

RNP RWY 20
WUNSTORF (ETNW)

BREMEN RADAR 259.725 119.490		WUNSTORF RADAR 389.400 124.655 123.300		WUNSTORF TOWER 356.100 132.055		
APP COURSE 203°	FAF ALT 2000	DESCENT GR 3.0° / 5.2%	MDA See CAT	THR ELEV 169	ALS-LENGTH 422 m	LDA 5573

NOTE:

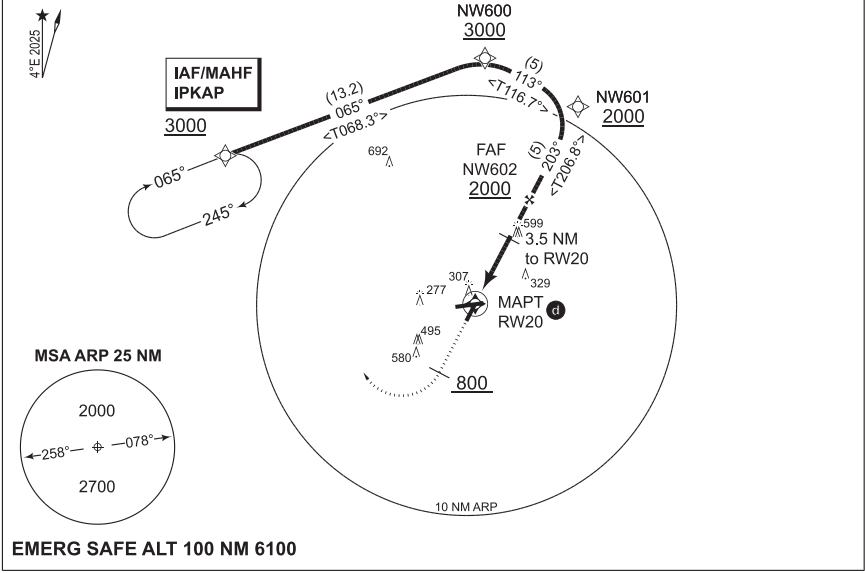
a) NAVIGATION SENSOR: GNSS ONLY.

b) NAVIGATION SPECIFICATION:
RNAV 1 UNTIL NW601, RNP APCH THEREAFTER.

c) BARO-VNAV NOT AUTHORIZED BELOW -30°C.

d) NO TURN BEFORE MAPT.

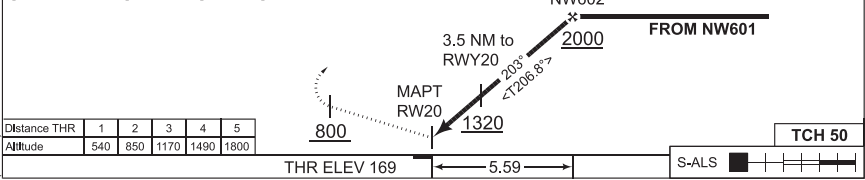
IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 6100

MISSED APPROACH TA 5000

Climb on track 203° at or above 800 ft, turn right direct to IPKAP, climb to 3000 ft.
[M203 A800+;R]→IPKAP [A3000+]



Distance THR	1	2	3	4	5
Altitude	540	850	1170	1490	1800
THR ELEV 169					
5.59					
TCH 50					
S-ALS					
CATEGORY	A		B		D
LNAV	560 - 1.4 391 (400-1.4/1.5)		560 - 1.4 391 (400-1.4/1.8)		
LNAV/VNAV	436 - 0.9 267 (300-0.9/1.3)		449 - 0.9 280 (300-0.9/1.3)		467 - 0.9 298 (300-0.9/1.4)
CIRCLING	680 - 2.3 493 (500-2.3)		790 - 2.8 603 (700-2.8)		1160 - 4.5 973 (1000-4.5)

RNP RWY 20 52°27.44"N
009°25.63"E WUNSTORF (ETNW)

CHANGE: REVISED CHART (163/25)

ACC 25 DEC 2025

RNP RWY 20 FROM IPKAP:

	CODING	DISPLAY
IPKAP (IAF)	52 34 22.20 N 009 06 37.20 E	52 34.370 N 009 06.620 E
NW600	52 39 12.79 N 009 26 47.14 E	52 39.213 N 009 26.786 E
NW601 (IF)	52 36 57.83 N 009 34 06.74 E	52 36.964 N 009 34.112 E
NW602 (FAF)	52 32 30.43 N 009 30 25.01 E	52 32.507 N 009 30.417 E
RW20 (MAPT)	52 27 31.31 N 009 26 17.97 E	52 27.522 N 009 26.300 E
IPKAP (MAHF)	52 34 22.20 N 009 06 37.20 E	52 34.370 N 009 06.620 E

Threshold Coordinates

RWY 20	52 27 31.31 N 009 26 17.97 E	52 27.522 N 009 26.300 E
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PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 187

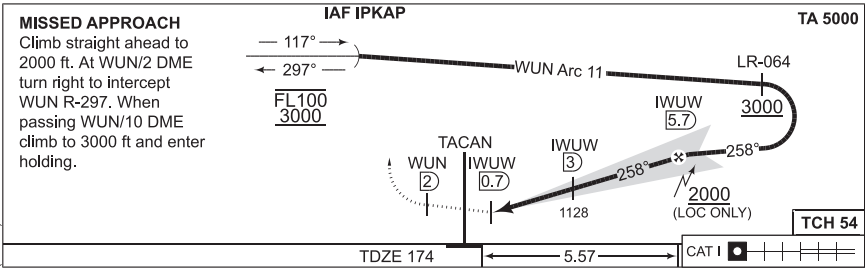
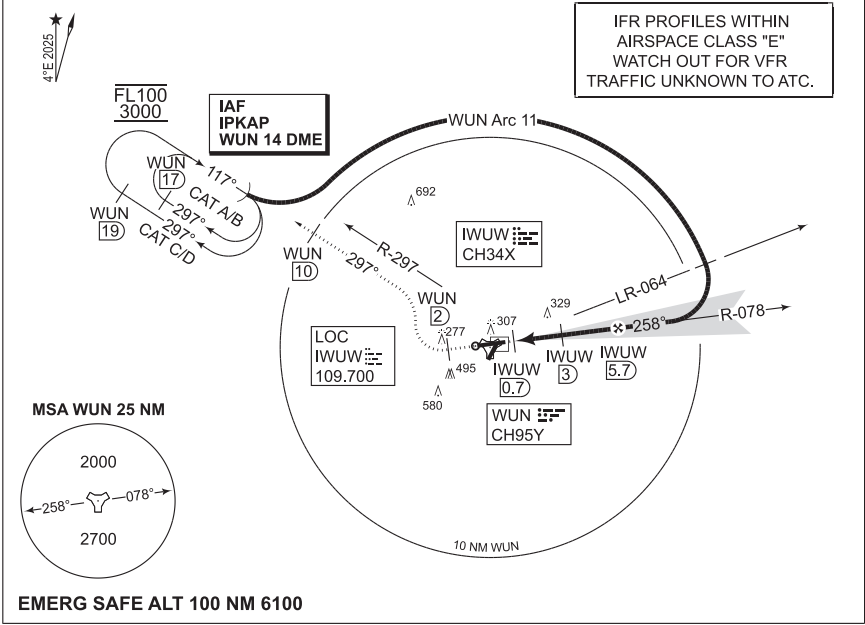
ILS Z or LOC RWY 26
WUNSTORF (ETNW)

BREMEN RADAR 259.725 119.490	WUNSTORF RADAR 389.400 124.655 123.300			WUNSTORF TOWER 356.100 132.055			
TACAN/LOC WUN CH95Y/IWUW 109.700	APP COURSE 258°	GS INTCP ALT 2000	GS 3.0° / 5.2%	DA/MDA 374/530	TDZE 174	ALS-LENGTH 923 M	LDA 7457

NOTE:

- a) TIMING NOT AUTHORIZED FOR DEFINING MAPT.
b) TACAN REQUIRED.

IAF IPKAP
52°34.37'N
009°06.62'E



CATEGORY	A	B	C	D	E
ILS Z 26 CAT I	374 - 0.8/550 200 (200-0.8/1.2)				NOT AUTHORIZED
LOC Z 26	530 - 0.9 356 (400-0.9/1.5)		530 - 0.9 356 (400-0.9/1.6)		NOT AUTHORIZED
CIRCLING	680 - 2.3 493 (500-2.3)	790 - 2.8 603 (700-2.8)	1000 - 3.8 813 (900-3.8)	1160 - 4.5 973 (1000-4.5)	NOT AUTHORIZED

ILS Z or LOC RWY 26

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

PANS-OPS INSTRUMENT APPROACH CHART

AD ELEV 187

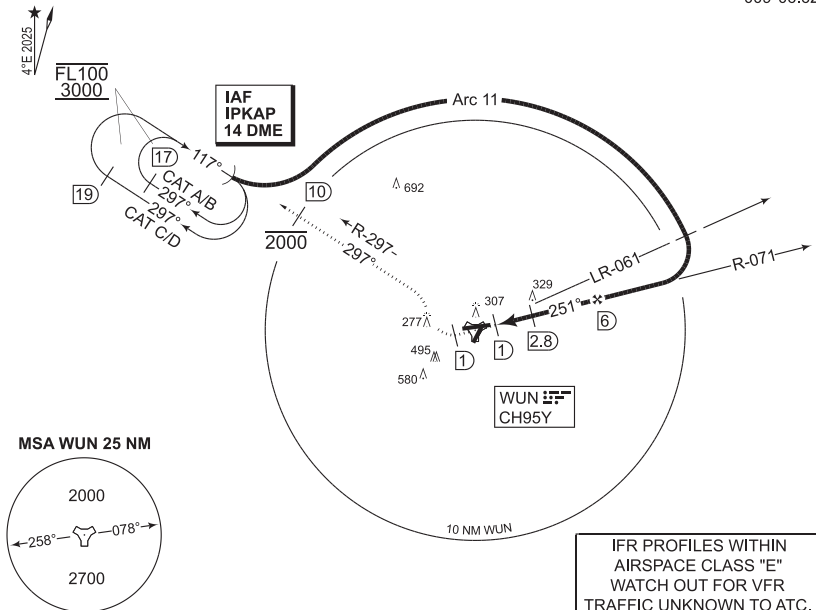
**TACAN RWY 26
WUNSTORF (ETNW)**

BREMEN RADAR 259.725 119.490		WUNSTORF RADAR 389.400 124.655 123.300			WUNSTORF TOWER 356.100 132.055		
TACAN WUN CH95Y	APP COURSE 251°	FAF ALT 1900	DESCENT GR 5.2%	MDA 490	TDZE 174	ALS-LENGTH 923 M	LDA 7457

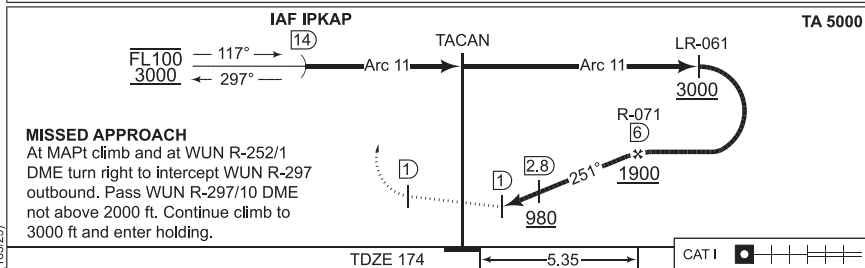
NOTE:

a) NO TURN BEFORE MAPT.

IAF
52°34.37'N
009°06.62'E



EMERG SAFE ALT 100 NM 6100



MISSED APPROACH

At MAPT climb and at WUN R-252/1 DME turn right to intercept WUN R-297 outbound. Pass WUN R-297/10 DME not above 2000 ft. Continue climb to 3000 ft and enter holding.

CATEGORY		A	B	C	D
TACAN 26		490 - 0.8 316 (400-0.8/1.6)		490 - 1.2 316 (400-1.2/1.6)	490 - 1.2 316 (400-1.2/2.0)
CIRCLING		680 - 2.3 493 (500-2.3)	790 - 2.8 603 (700-2.8)	1000 - 3.8 813 (900-3.8)	1160 - 4.5 973 (1000-4.5)

TACAN RWY 26

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

PANS-OPS INSTRUMENT APPROACH CHART

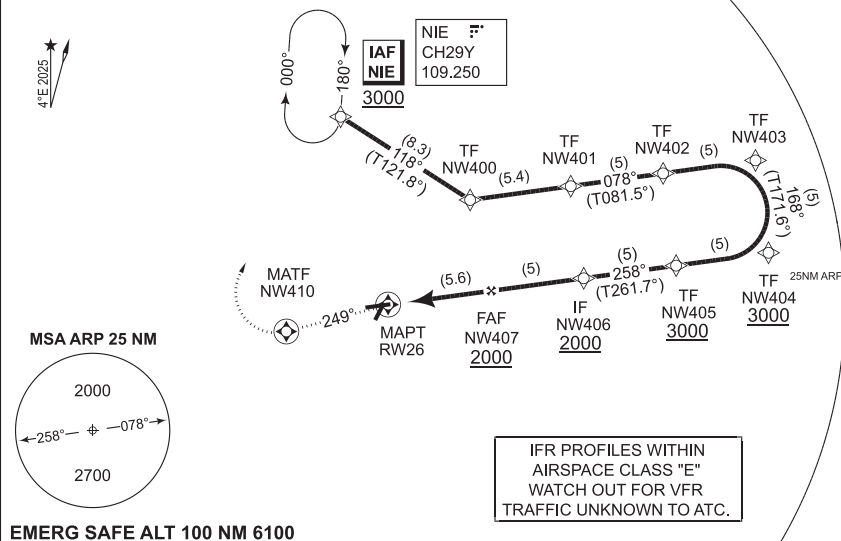
AD ELEV 187

RNP RWY 26
WUNSTORF (ETNW)

BREMEN RADAR 259.725 119.490		WUNSTORF RADAR 389.400 124.655 123.300		WUNSTORF TOWER 356.100 132.055	
APP COURSE 258°	FAF ALT 2000	DESCENT GR 3.0° / 5.2%	MDA See CAT	THR ELEV 174	ALS-LENGTH 923 m
					LDA 7457

NOTE:

- NAVIGATION SENSOR: GNSS ONLY.
- NAVIGATION SPECIFICATION: RNAV 1 UNTIL NW406; RNP APCH THEREAFTER.
- BARO-VNAV NOT AUTHORIZED BELOW -15°C.
- EXPECT SHORTCUTS FROM NW401
TO NW406 OR NW402 TO NW405 AS FAR AS TRAFFIC PERMITS.
- PROCEDURE LIMITED TO 230 KIAS MAX.

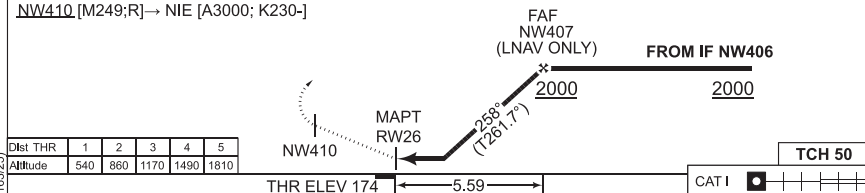


EMERG SAFE ALT 100 NM 6100

MISSSED APPROACH

Climb on course 249° to NW410 then turn right direct to NIE. Climb to 3000 ft.
NW410 [M249;R]→ NIE [A3000; K230-]

TA 5000



CATEGORY	A	B	C	D
LNAV	530 - 0.9 356 (400-0.9/1.6)		530 - 0.9 356 (400-0.9/2.4)	
LNAV / VNAV	424 - 0.8 250 (300-0.8/1.5)		426 - 0.8 252 (300 - 0.8/2.4)	449 - 0.8 275 (300 - 0.8/2.4)
CIRCLING	680 - 2.3 493 (500 - 2.3)	790 - 2.8 603 (700 - 2.8)	1000 - 3.8 813 (900 - 3.8)	1160 - 4.5 973 (1000 - 4.5)

RNP RWY 26

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

RNP RWY 26 FROM NIE:

	CODING	DISPLAY
NW400 (TF)	52 33 11.70 N 009 33 48.75 E	52 33.195 N 009 33.813 E
NW401 (TF)	52 33 59.73 N 009 42 38.10 E	52 33.996 N 009 42.635 E
NW402 (TF)	52 34 43.82 N 009 50 44.44 E	52 34.730 N 009 50.741 E
NW403 (TF)	52 35 27.91 N 009 58 50.92 E	52 35.465 N 009 58.849 E
NW404 (TF)	52 30 31.57 N 010 00 02.86 E	52 30.526 N 010 00.048 E
NW405 (TF)	52 29 48.03 N 009 51 57.16 E	52 29.800 N 009 51.953 E
NW406 (IF)	52 29 04.49 N 009 43 51.59 E	52 29.075 N 009 43.860 E
NW407 (FAF)	52 28 20.95 N 009 35 46.15 E	52 28.349 N 009 35.769 E
RW26 (MAPT)	52 27 32.40 N 009 26 44.52 E	52 27.540 N 009 26.742 E
NW410 (MATF)	52 26 00.91 N 009 17 51.80 E	52 26.015 N 009 17.863 E

Threshold Coordinates

RWY 26	52 27 32.40 N 009 26 44.52 E	52 27.540 N 009 26.742 E
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INSTRUMENT DEPARTURE OR APPROACH PROCEDURE CHARTS

RATE OF CLIMB/DESCENT TABLE

A rate of climb/descent table (ft per min.) is provided for use in planning and executing climbs or descents under known or approximate ground speed conditions.

CLIMB / DESCENT			Ground Speed (knots)										
ANGLE	PERCENT	FT/NM	60	90	120	150	180	210	240	270	300	330	360
1.5	2.6%	160	160	240	320	400	480	560	640	720	800	880	960
2.0	3.5%	220	220	320	430	530	640	750	850	960	1060	1170	1280
2.5	4.4%	270	270	400	530	670	800	930	1070	1200	1330	1460	1600
3.0	5.2%	320	320	480	640	800	960	1120	1280	1440	1600	1760	1910
3.5	6.1%	380	380	560	750	930	1120	1300	1490	1680	1860	2050	2230
4.0	7.0%	430	430	640	850	1070	1280	1490	1700	1920	2130	2340	2550
4.5	7.9%	480	480	720	960	1200	1440	1680	1920	2160	2390	2630	2870
5.0	8.7%	540	540	800	1070	1330	1600	1860	2130	2400	2660	2930	3190
5.5	9.6%	590	590	880	1170	1470	1760	2050	2340	2640	2930	3220	3510
6.0	10.5%	640	640	960	1280	1600	1920	2240	2560	2880	3200	3520	3840
6.5	11.4%	700	700	1040	1390	1730	2080	2430	2770	3120	3470	3810	4160
7.0	12.3%	750	750	1120	1500	1870	2240	2620	2990	3360	3730	4110	4480
7.5	13.2%	800	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
8.0	14.1%	860	860	1280	1710	2140	2570	2990	3420	3850	4270	4700	5130
8.5	14.9%	910	910	1370	1820	2270	2730	3180	3640	4090	4540	5000	5450
9.0	15.8%	970	970	1450	1930	2410	2890	3370	3850	4330	4820	5300	5780
9.5	16.7%	1020	1020	1530	2040	2550	3050	3560	4070	4580	5090	5600	6100
10.0	17.6%	1080	1080	1610	2150	2680	3220	3750	4290	4830	5360	5900	6430

