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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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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

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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, BARDUFOSS (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

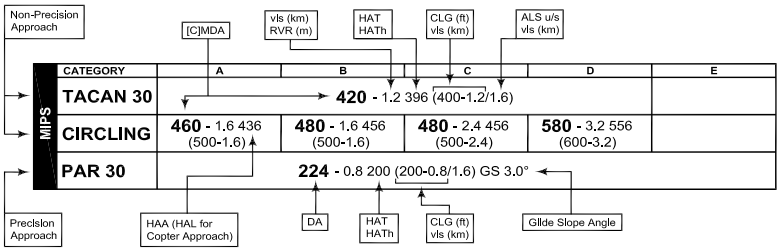
* Rounded up to next 20ft. ** Altitude to be flown. Rounded up to next higher 100ft increment, except DA/MDA.

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.

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LANDING MINIMA EXPLANATION



CLG **Ceiling**

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

DA **Decision Altitude**

The altitude related to the highest elevation in the touchdown zone specified for a glide slope approach, at which a missed approach must be initiated if required visual reference has not been established.

HAA **Height above Aerodrome Elevation**

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

HAT **Height above Touchdown Zone Elevation**

The height of the DA or MDA above the highest runway centerline elevation in the touchdown zone. Published in TERPS procedures where heights are referenced to touchdown zone elevation.

HATh **Height above Threshold Elevation**

The height of the DA or MDA above the threshold. Published in PANS-OPS/ MIPS procedures where heights are referenced to threshold elevation.

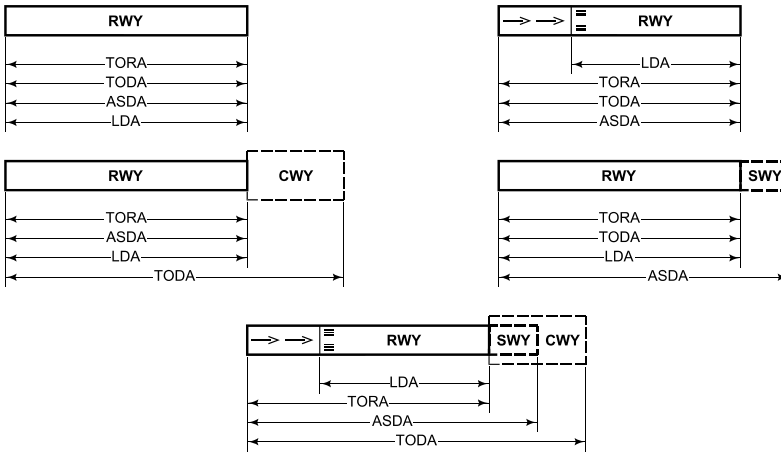
[C]MDA **[Circling] Minimum Descent Altitude**

The MDA is the lowest altitude to which descent shall be authorized in procedures not using a glide slope. Aircraft are not authorized to descend below the MDA until the runway environment is in sight, and the aircraft is in a position to descend for normal landing.

VIS/RVR Visibility values are expressed as visual range (estimated horizontal visual range on the ground = VIS) or as runway visual range (measured horizontal visual range on the ground along the runway = RVR). The visibility values published following the DA or MDA is the required minimum visibility for the approach. For straight-in approaches, the visibility value may be either VIS or RVR. For circling approaches, the visibility value will always be VIS. The visibility value published in parentheses with the ceiling value is applicable for flight planning purpose. It is also the required minimum visibility in the event that RVR is not available. For ALS u/s, the last VIS value (behind the slash) should be used. The value will always be VIS.

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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.

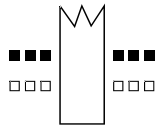
LDA **Landing Distance Available**

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.

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VASIS / PAPI

(V) VASI (VISUAL APPROACH SLOPE INDICATOR)



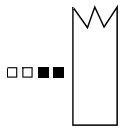
On correct approach path

□ 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.

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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.

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LEGEND

VOR

DME

VOR/DME

TACAN

VORTAC

NDB

VFR Reporting Point / Intersection
On Request Fly-By

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

Abandoned or closed Aerodrome

Aerodrome Beacon

Procedural Track

R-270 — Radial

LR-270 — Lead Radial

1100 1100 — Mandatory Level / Recommended Level

1100 1100 — Minimum Level / Maximum Level

Spot Elevation

Obstruction (unlighted)
Group of Obstructions (unlighted)

Obstruction (lighted)
Group of Obstructions (lighted)

HIRTA (no obstruction)

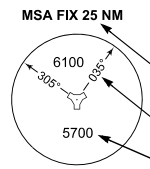
HIRTA (with obstruction unlighted)

HIRTA (with obstruction lighted)

HIRTA
High intensity radio transmission area

HIRTA lateral limits

Power Transmission Line

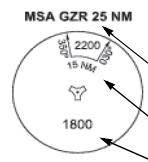


Minimum Sector Altitude (MSA)
25NM radius

Identification of Radio Navigational Facility

Sector Boundary

Minimum sector Altitude (MSA)

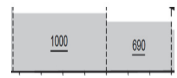


Minimum Sector Altitude (MSA)
25NM radius

Identification of Radio Navigational Facility

Sector Boundary 15 NM awa from Beacon

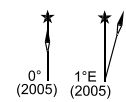
Minimum sector Altitude (MSA)



Minimum obstacle clearance Altitude



Danger Area (ED-D)
Restricted Area (ED-R)
Prohibited Area (ED-P)



Variation

International Border

FIR

Control Zone (CTR)

Not to Scale

000.000x — Frequency available on request

ARP

ZentrLuftOp 30 OCT 2025



Distance



Initial Approach Fix

Missed Approach



Procedure Turn

Fix / Turning Point



Penetration Track



operates not continously

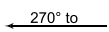


Final Approach Fix (FAF)
(Non precision approaches)

Visual Descent Point (VDP)

Transition Route

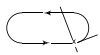
Supplementary Route



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

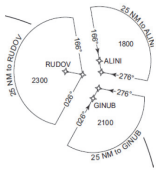
Closed runway or taxiway
TWY



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.



Note Circle (a - i)



TAA



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

ZentrLuftOp 30 OCT 2025

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

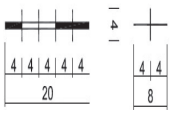
Crossbar

NO LIGHTS — No ALS

UNKNOWN — Type of ALS unknown

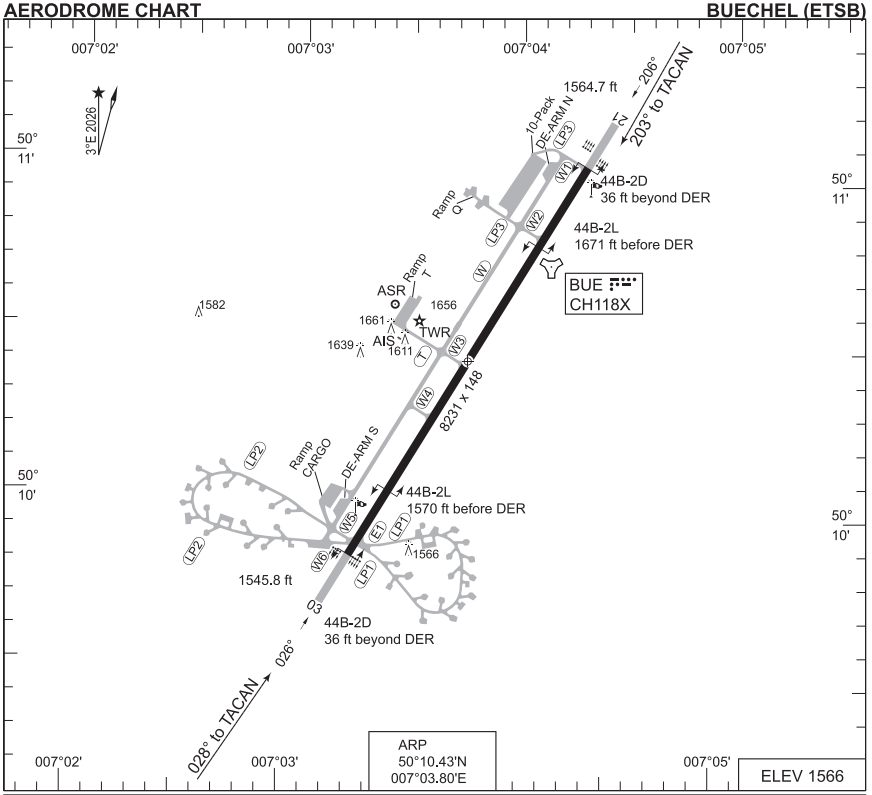
S-ALS — Example

CAT .. — Example



Row of lights on the extended centre line of RWY

ZentrLuftOp 30 OCT 2025



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)

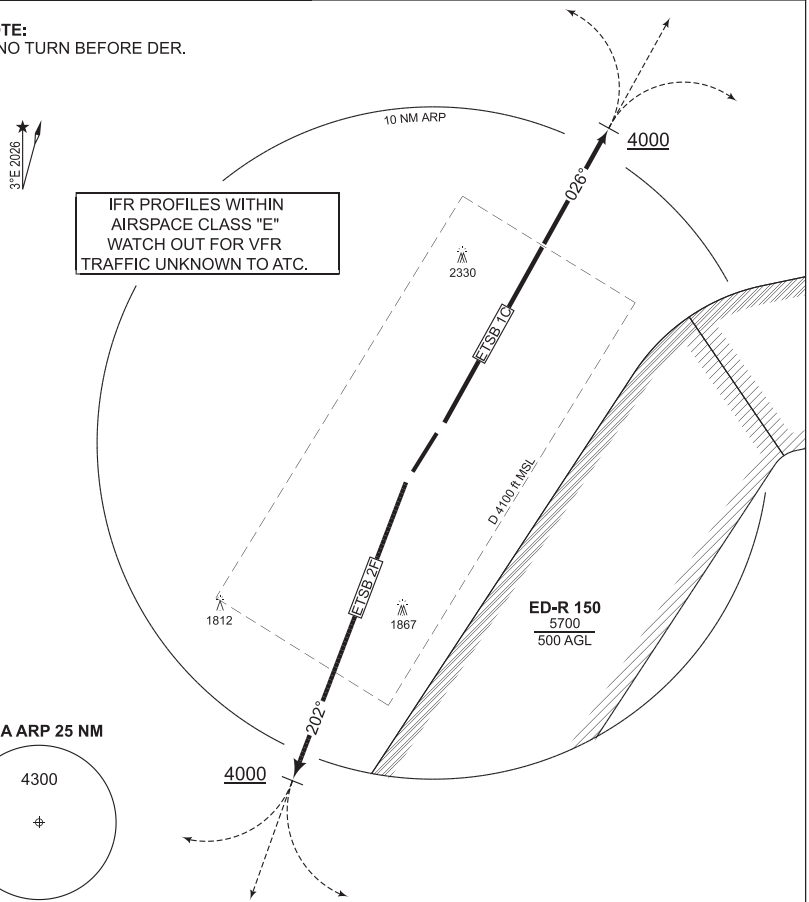
CHANGE: REVISED CHART (125/26)

ACC 11 JUN 2026

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

NOTE:
a) NO TURN BEFORE DER.



EMERG SAFE ALT 100 NM 5400 **TA 5000**

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)

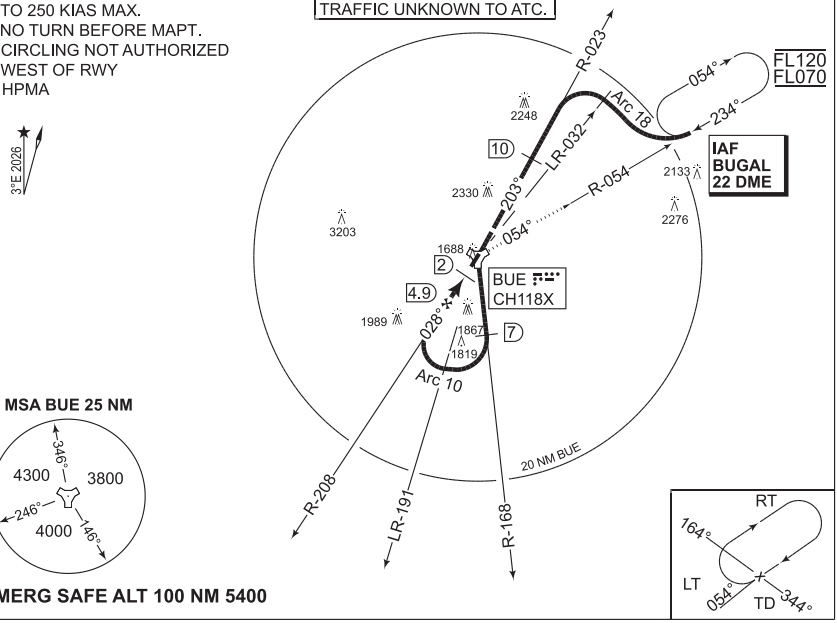
LANGEN RADAR	BUECHEL RADAR	BUECHEL TOWER
375.700 125.600	242.400 344.625 389.225 378.375	282.200 129.060

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
BUE CH118X	028°	2800	3.0° (5.2%/316 ft/NM)	**1900**	1546	900 M	8226

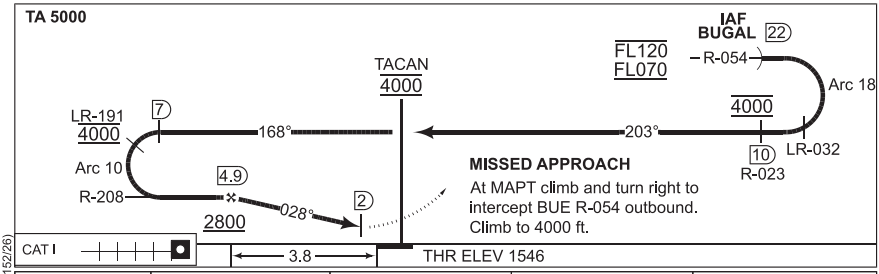
NOTE:
a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
b) MISSED APCH TURN LIMITED TO 250 KIAS MAX.
c) NO TURN BEFORE MAPT.
d) CIRCLING NOT AUTHORIZED WEST OF RWY
e) HPMA

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

IAF
50°22.40'N
007°32.69'E



TA 5000



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 e(800 - 3.2)

MIPS

CHANGE: DISTANCE FAF (152/26)

ACC 06 AUG 2026

TACAN RWY 03

50°10.43'N
007°03.80'E

BUECHEL (ETSB)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1566

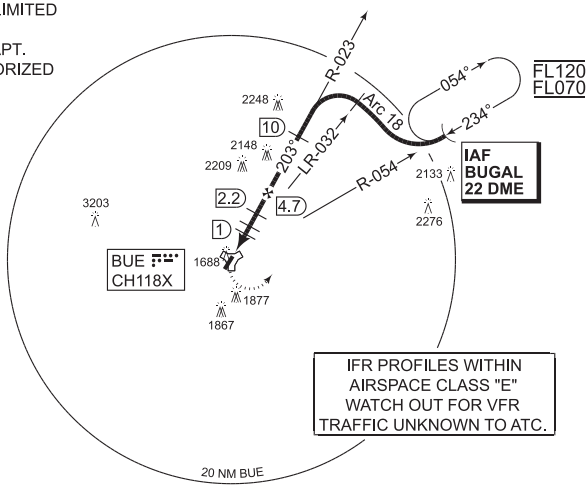
TACAN RWY 21
BUECHEL (ETSB)

LANGEN RADAR	BUECHEL RADAR	BUECHEL TOWER
375.700 125.600	242.400 344.625 389.225 378.375	282.200 129.060

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
BUE CH118X	203°	3000	3.0° (5.2%/316 ft/NM)	**1910**	1565	900 M	8231

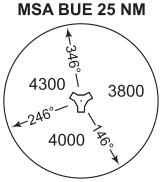
NOTE:
a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
b) MISSED APCH TURN LIMITED TO 250 KIAS MAX.
c) NO TURN BEFORE MAPT.
d) CIRCLING NOT AUTHORIZED WEST OF RWY
(e) HPMA

IAF
50°22.40'N
007°32.69'E

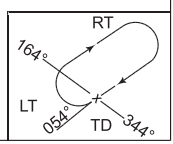


3°E 2026

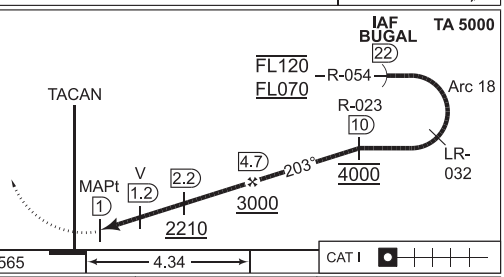
MSA BUE 25 NM



EMERG SAFE ALT 100 NM 5400



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

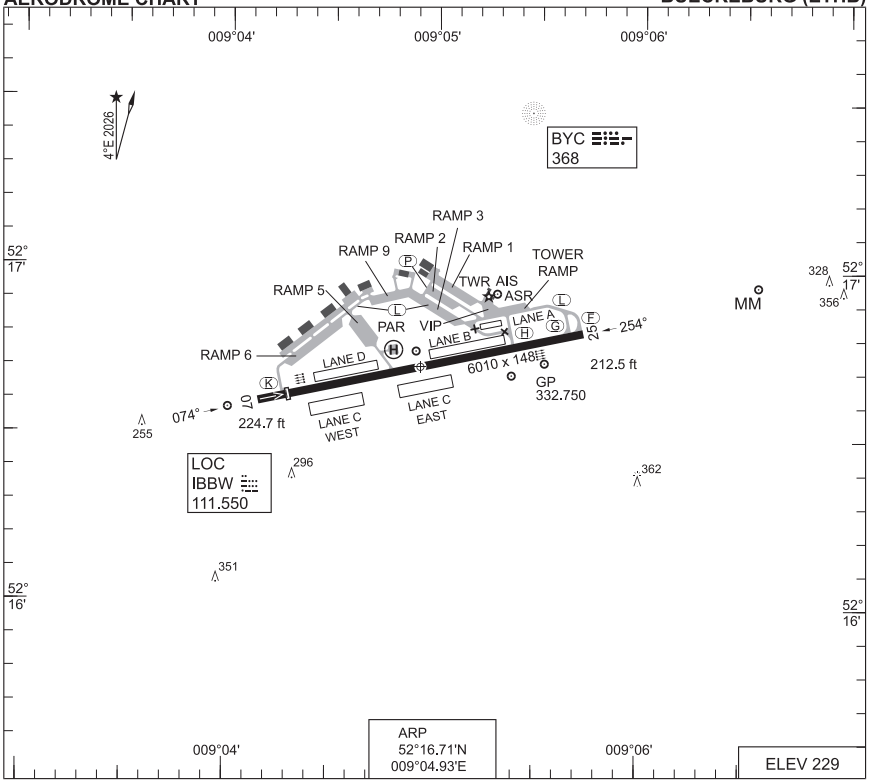


CATEGORY	A	B	C	D
TACAN 21	**1910** - 0.9 345 (400 - 0.9/1.6)			
CIRCLING	**1970** - 1.9 403 (500 - 1.9)	**2200** - 2.9 633 (700 - 2.9)	**2380** - 3.8 813 (900 - 3.8)	**2280** - 3.2 713 (e) (800 - 3.3)

MPS

CHANGE: REVISED CHART (105/26)

ACC 11 JUN 2026



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
07	25 F/B/W/U	6010	6010	6010	5477	3.4°		229	52°16.62'N 009°04.28'E
25	25 F/B/W/U	6010	6010	6010	6010	3.2°		229	52°16.81'N 009°05.72'E

BUECKEBURG TOWER 341.250 387.750 140.400 123.240
BUECKEBURG RADAR 389.450 124.505 123.300 SSR Mode Codes 3/A 4250 4257 (a) 5% (REASON OBSTACLES)

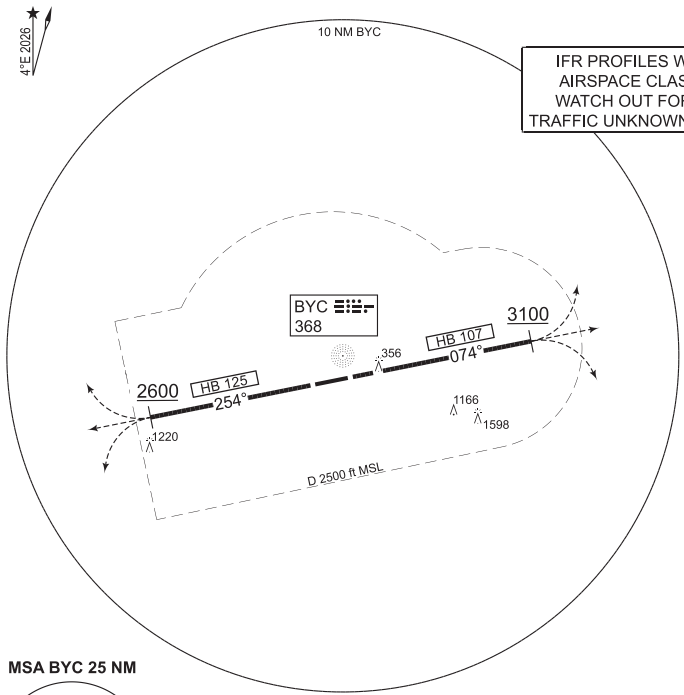
	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	25	3.2°	58		886	ABCD	AATCP-1(E)	454 - 0.8 550 242 (300-0.8/1.3)
	PANS-OPS	07	3.4°		51	886	ABCD	AATCP-1(E)	505 - 0.9 280 (300-0.9/1.4)
	PANS-OPS	07	3.4°		51	886	ABCD	AATCP-1(E)	425 - 0.8 750 200 (200-0.8/1.2) (a)
	PANS-OPS	07	3.4°		51	886	H	AATCP-1(E)	425 - 0.8 750 200 (200-0.8/1.2)

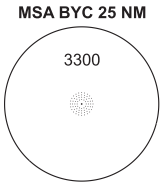
CHANGE: MINIMA (062/26)

ACC 16 APR 2026

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





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)
ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

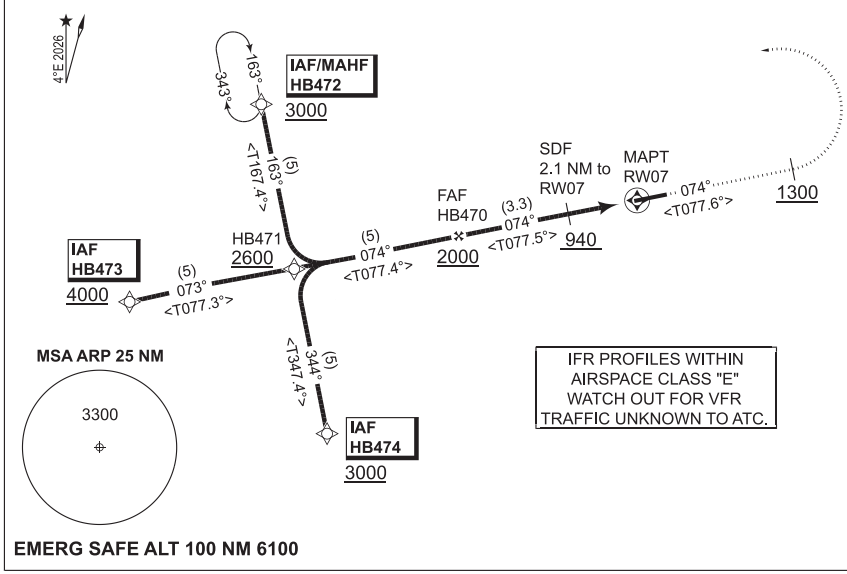
AD ELEV 229

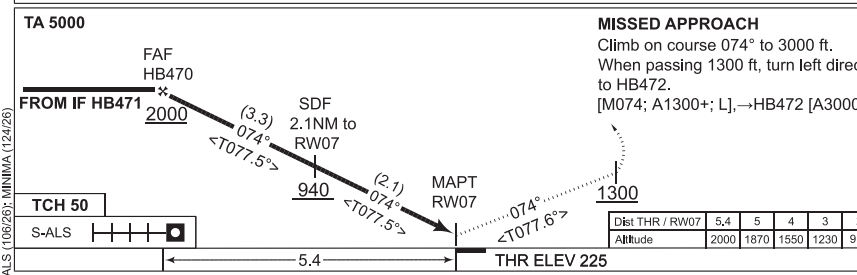
RNP RWY 07
BUECKEBURG (ETHB)

BREMEN RADAR	BUECKEBURG RADAR	BUECKEBURG TOWER
259.725 119.490	389.450 124.505	341.250 140.400 123.240

APP COURSE	FAF ALT	GS	MDA/DA	THR ELEV	ALS	LDA
074°	2000	3.0° / 5.2%	**See CAT**	225	590 M	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





	CATEGORY	A	B	C
MIPS	LNAV 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)
	LNAV 5%	**600** - 1.3 375 (400-1.3/1.5)		**600** - 1.3 375 (400-1.3/1.7)
	LNAV/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)

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

ACC 11 JUN 2026

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

CHANGE: EDITORIAL (129/26)
ACC 11 JUN 2026

PANS-OPS
INSTRUMENT APPROACH CHART

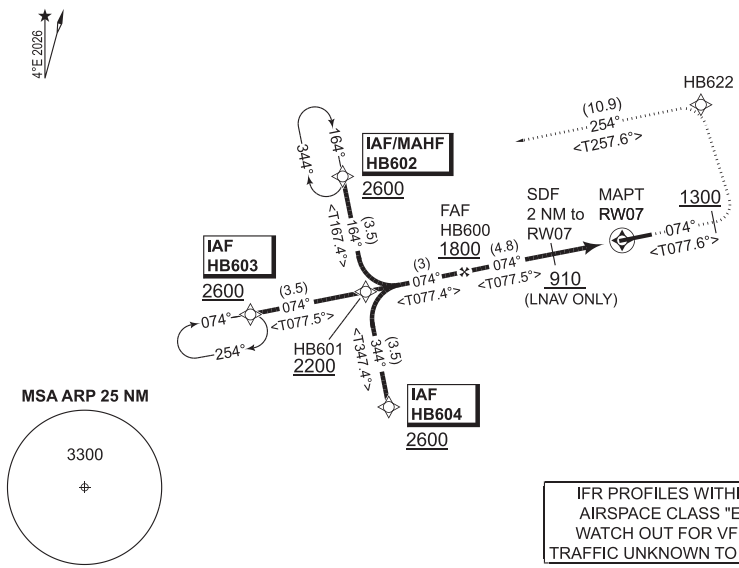
AD ELEV 229

COPTER RNP RWY 07
BUECKEBURG (ETHB)

BREMEN RADAR	BUECKEBURG RADAR	BUECKEBURG TOWER
259.725 119.490	389.450 124.505	341.250 140.400

APP COURSE	FAF ALT	GS	MDA/DA	THR ELEV	ALS	LDA
074°	1800	3.0° / 5.2%	**See CAT**	225	590 m	5476

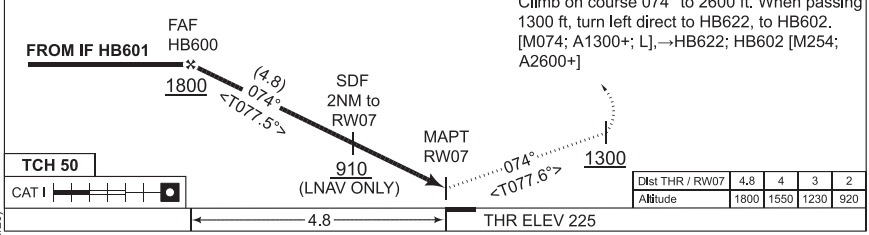
NOTE:
a) SENSOR: GNSS ONLY.
b) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
c) DISREGARD PAPI



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+]



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

MIPS

CHANGE: NEW CHART (146/26)

ACC 06 AUG 2026

COPTER RNP RWY 07

52°16.71'N
009°04.93'E

BUECKEBURG (ETHB)

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

CHANGE: NEW CHART (146/26)
ACC 06 AUG 2026

PANS-OPS
INSTRUMENT APPROACH CHART

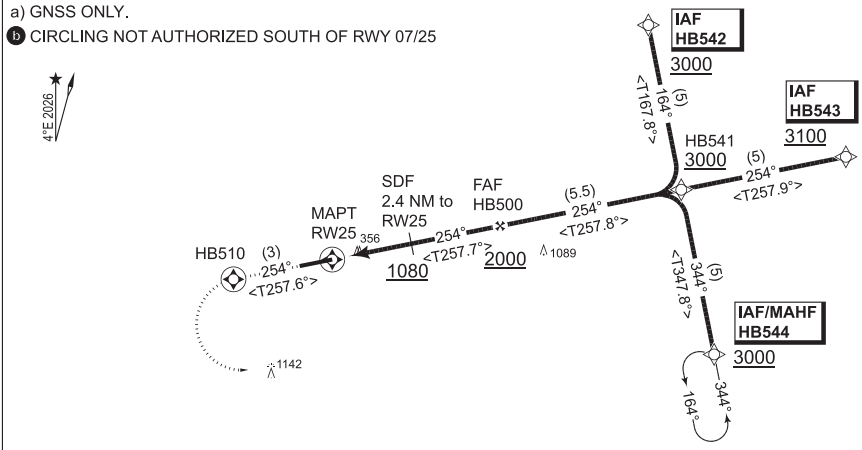
AD ELEV 229

RNP RWY 25
BUECKEBURG (ETHB)

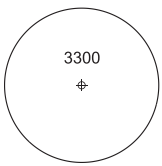
BREMEN RADAR	BUECKEBURG RADAR	BUECKEBURG TOWER
259.725 119.490	389.450 124.505	341.250 140.400 123.240

APP COURSE	FAF ALT	GS	MDA/DA	THR ELEV	ALS	LDA
254°	2000	3.2°/5.6°	**See CAT**	213	900 M	6010

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



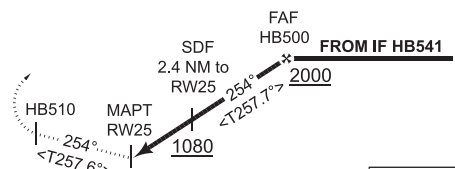
MSA ARP 25 NM



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

EMERG SAFE ALT 100 NM 6100

MISSED APPROACH **TA 5000**
Climb on course 254° to HB510,
direct to HB544, climb to 3000 ft or above.
HB510 [M254;L], → HB544 [A3000+]



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

TCH 54
THR ELEV 213 — 5.1
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)

MIPS

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

ACC 11 JUN 2026

RNP RWY 25

52°16.71'N
009°04.93'E

BUECKEBURG (ETHB)

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

CHANGE: EDITORIAL (129/26)
ACC 11 JUN 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 229

COPTER RNP RWY 25
BUECKEBURG (ETHB)

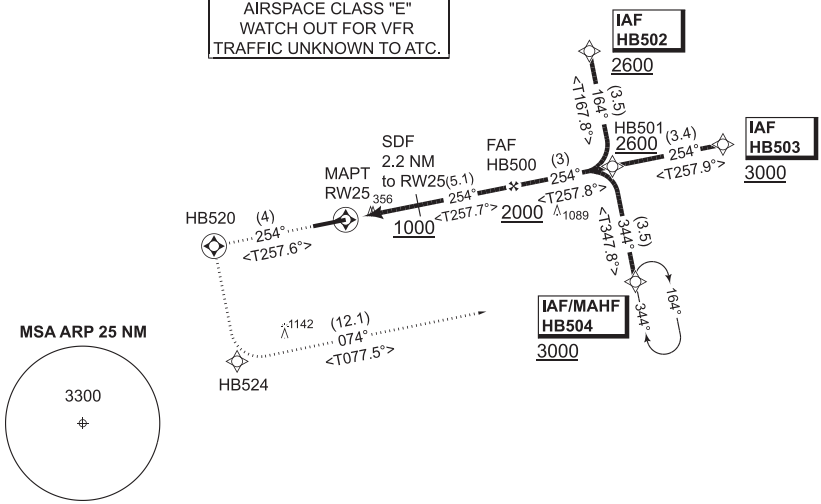
BREMEN RADAR	BUECKEBURG RADAR	BUECKEBURG TOWER
259.725 119.490	389.450 124.505	341.250 140.400

APP COURSE	FAF ALT	GS	MDA/DA	THR ELEV	ALS	LDA
254°	2000	3.2°/ 5.6%	**See CAT**	213	900 m	6010

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

4°E 2026

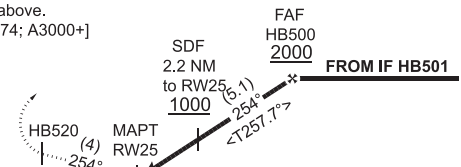
IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 6100

MISSED APPROACH **TA 5000**

Climb on 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+]



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

TCH 54

THR ELEV 213 — 5.1 — CAT I

CATEGORY	H
LNAV	**950** - 0.8 737 (800-0.8/1.2)
LNAV/VNAV	**847** - 0.8 634 (700-0.8/1.2)

MIPS

CHANGE: NEW CHART (146/26)

ACC 06 AUG 2026

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

CHANGE: NEW CHART (146/26)
ACC 06 AUG 2026

PANS-OPS
INSTRUMENT APPROACH CHART

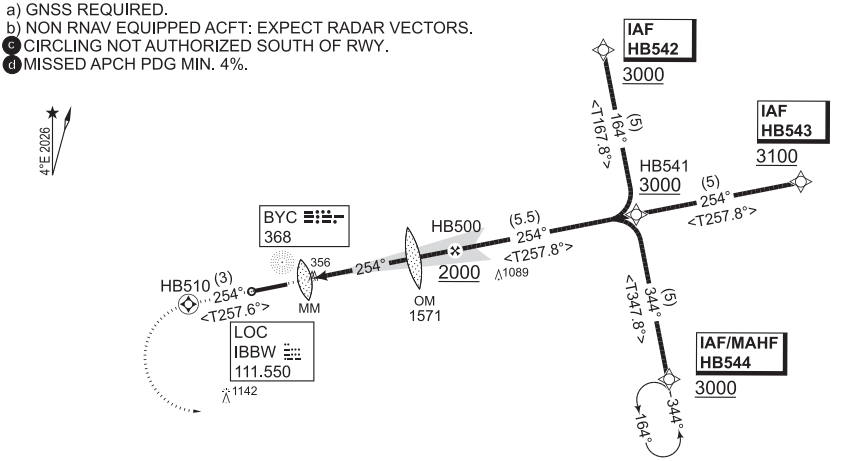
AD ELEV 229

ILS RWY 25
BUECKEBURG (ETHB)

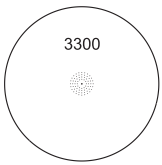
BREMEN RADAR	BUECKEBURG RADAR	BUECKEBURG TOWER
259.725 119.490	389.450 124.505	341.250 140.400 123.240

LOCALIZER	APP COURSE	GS	DA	THR ELEV	ALS-LENGTH	LDA
IBBW 111.550	254°	3.2°	**See CAT**	213	900 M	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

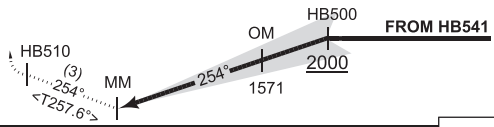


IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 6100

MISSED APPROACH d **TA 5000**

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



	CATEGORY	A	B	C
MPS	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)
MPS	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)
MPS	c CIRCLING	**820** - 2.7 591 (600-2.7)	**1020** - 3.6 791 (800-3.6)	**1170** - 4.3 941 (1000-4.3)

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

ACC 11 JUN 2026

PANS-OPS
INSTRUMENT APPROACH CHART

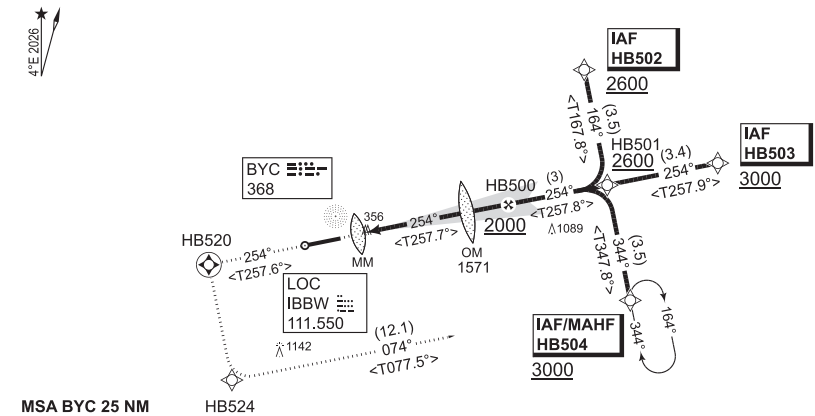
AD ELEV 229

COPTER ILS RWY 25
BUECKEBURG (ETHB)

BREMEN RADAR	BUECKEBURG RADAR	BUECKEBURG TOWER
259.725 119.490	389.450 124.505	341.250 140.400

LOCALIZER	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS-LENGTH	LDA
IBBW 111.550	254°	2000	3.2°	**463**	213	900 m	6010

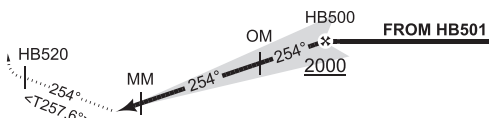
NOTE:
a) GNSS REQUIRED.
b) NON RNAV EQUIPPED ACFT: EXPECT RADAR VECTORS.



EMERG SAFE ALT 100 NM 6100

MISSED APPROACH **TA 5000**

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+]



CATEGORY	H
COPTER ILS 25	**463** - 0.8/550 250 (300-0.8/1.2)

MIPS

CHANGE: NEW CHART (146/26)

ACC 06 AUG 2026

COPTER ILS RWY 25

52°16.71'N
009°04.93'E

BUECKEBURG (ETHB)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 229

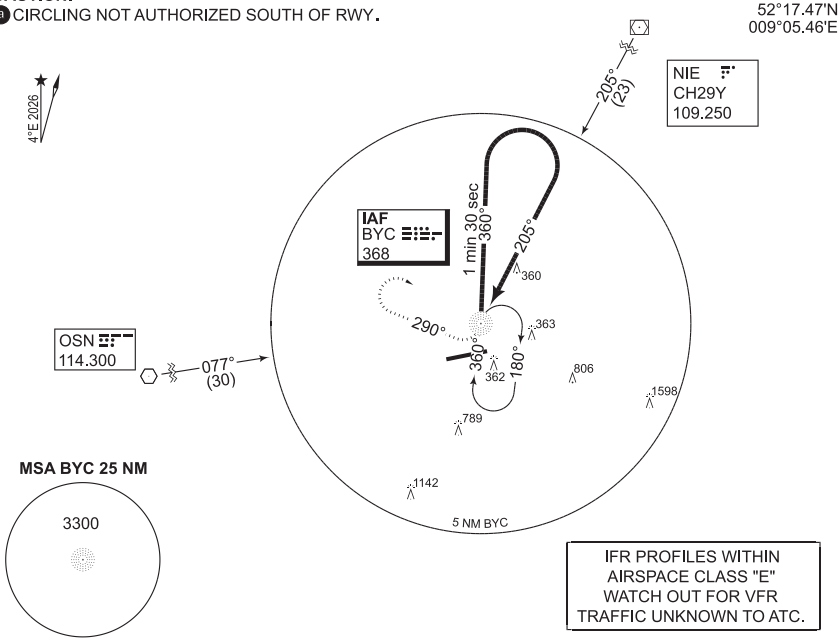
NDB A
BUECKEBURG (ETHB)

BREMEN RADAR	BUECKEBURG RADAR	BUECKEBURG TOWER
259.725 119.490	389.450 124.505	341.250 140.400 123.240

NDB	APP COURSE	MDA	ALS-LENGTH	LDA
BYC 368	205°	**820**	590 M / 900 M	5476 / 6010

CAUTION:
ⓐ CIRCLING NOT AUTHORIZED SOUTH OF RWY.

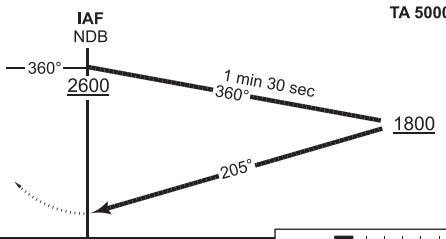
IAF
52°17.47'N
009°05.46'E



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.



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

CHANGE: MINIMA (124/26)

MIPS

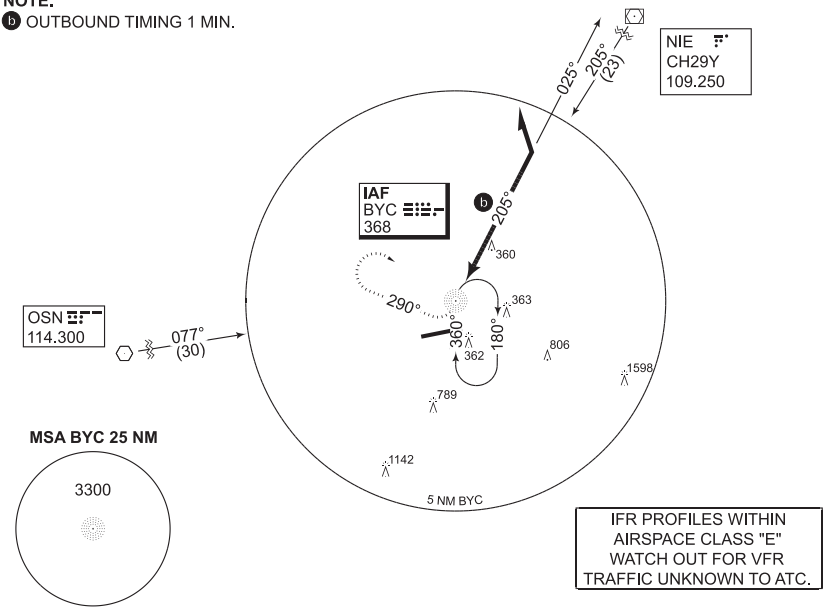
ACC 11 JUN 2026

BREMEN RADAR	BUECKEBURG RADAR	BUECKEBURG TOWER
259.725 119.490	389.450 124.505	341.250 140.400 123.240

NDB	APP COURSE	MDA	ALS-LENGTH	LDA
BYC 368	205°	**820**	590 M / 900 M	5476 / 6010

CAUTION:
ⓐ CIRCLING NOT AUTHORIZED SOUTH OF RWY.
NOTE:
ⓑ OUTBOUND TIMING 1 MIN.

IAF
52°17.47'N
009°05.46'E

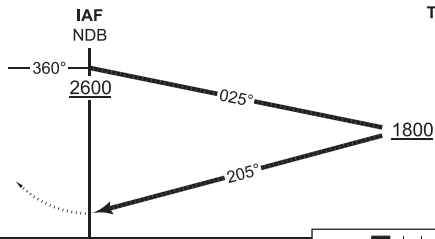


MSA BYC 25 NM

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

EMERG SAFE ALT 100 NM 6100

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



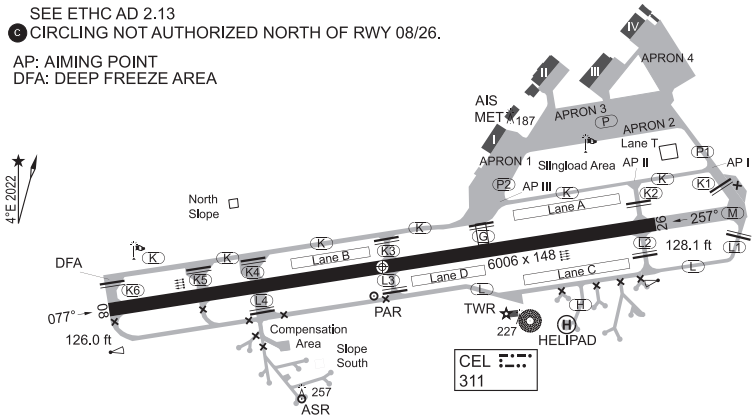
CATEGORY	A
ⓐ CIRCLING	**820** - 2.7 591 (600-2.7)

CHANGE: MINIMA (124/26)
MIPS
ACC 11 JUN 2026

NOTE:

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

AP: AIMING POINT
DFA: DEEP FREEZE AREA



LANE A	1148 x 98
LANE B	820 x 98
LANE C	1148 x 98
LANE D	820 x 98
LANE T	164 x 164

FOR INS COORDINATES OF AIRCRAFT STAND SEE ETHC AD "LIST OF INS REFERENCE POINTS"

ARP
52°35.47'N
010°01.33'E

ELEV 129

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
a) 182 ft NM / 3.0% (REASON ATC)
b) 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)
CIRC-LING 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)

CHANGE: EDITORIAL (179/25)

ACC 19 FEB 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 129

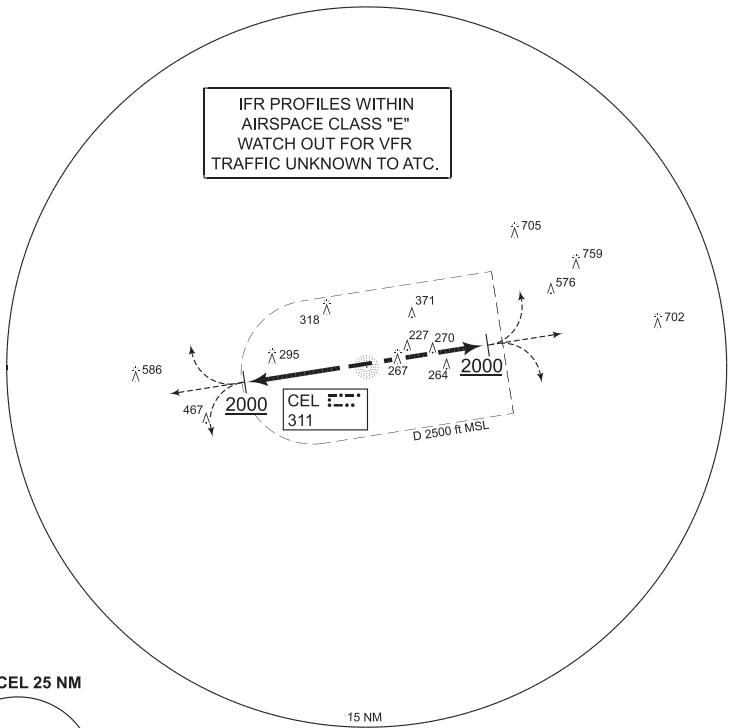
HC 108 - 126
CELLE (ETHC)

CELLE TWR	CELLE RADAR	BREMEN RADAR
315.150 118.255	379.575 130.505	259.725x 119.490

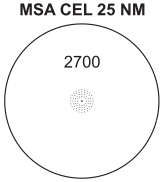
RWY	from - to	60	120	180	240	300	360	Reason
08	DER - 2000 ft	469	938	1407	1876	2345	2814	ATC
26	DER - 2000 ft	469	938	1407	1876	2345	2814	ATC

4°E 2022

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



MSA CEL 25 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

CHANGE: EDITORIAL (080/26)

ACC 16 APR 2026

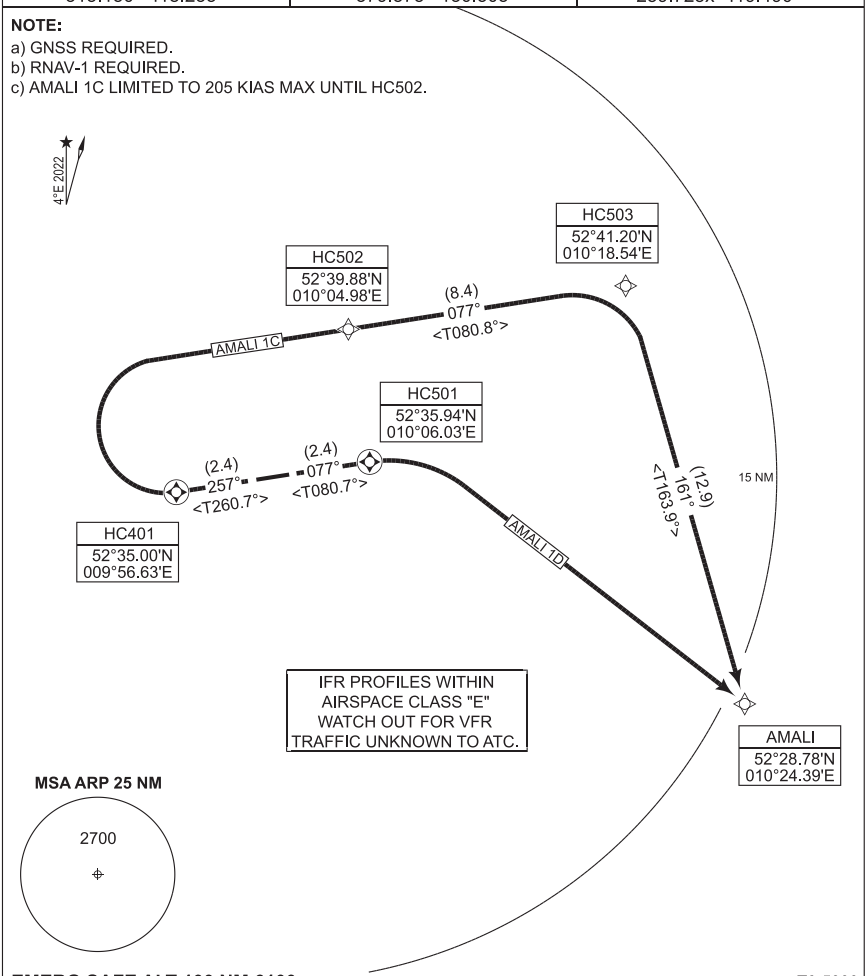
PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 129

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

CELLE TOWER	CELLE RADAR	BREMEN RADAR
315.150 118.255	379.575 130.505	259.725x 119.490

NOTE:
a) GNSS REQUIRED.
b) RNAV-1 REQUIRED.
c) AMALI 1C LIMITED TO 205 KIAS MAX UNTIL HC502.



EMERG SAFE ALT 100 NM 6100 **TA 5000**

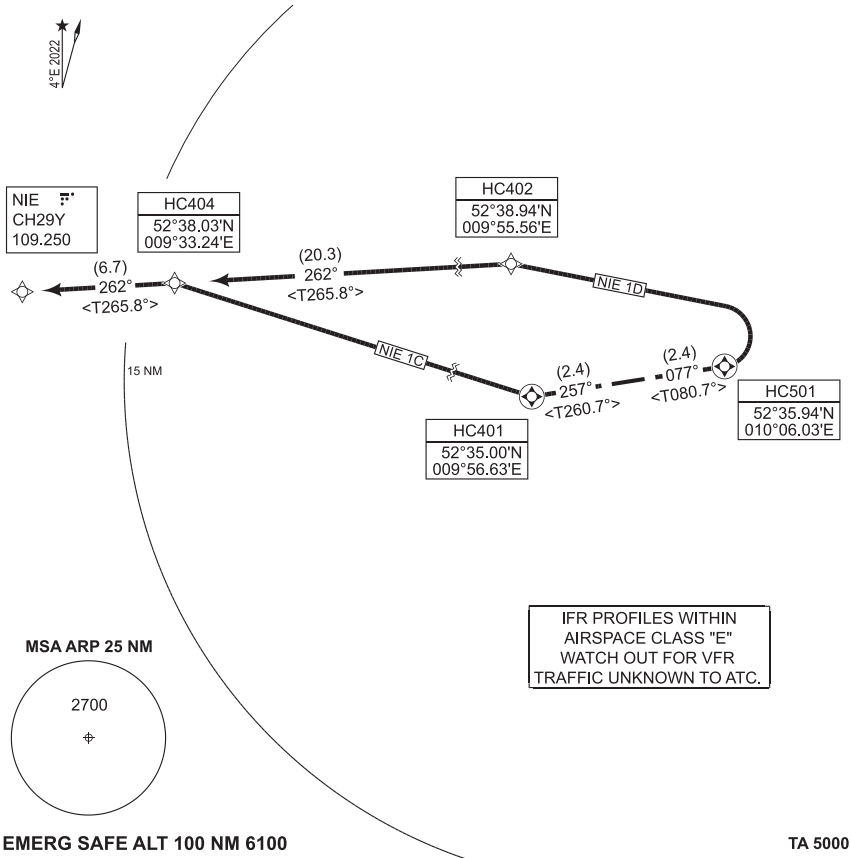
AMALI 1C (RWY 26)	- Climb on track 257° to HC401 - Turn right direct to HC502 - To HC503 - To AMALI HC401 [M257;K205-] - HC502 [K205-;R] - HC503 - AMALI
AMALI 1D (RWY 08)	- Climb on track 077° to HC501 - Turn right direct to AMALI HC501 [M077;R] - AMALI

CHANGE: EDITORIAL (186/25)

ACC 19 FEB 2026

CELLE TOWER	CELLE RADAR	BREMEN RADAR
315.150 118.255	379.575 130.505	259.725x 119.490

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



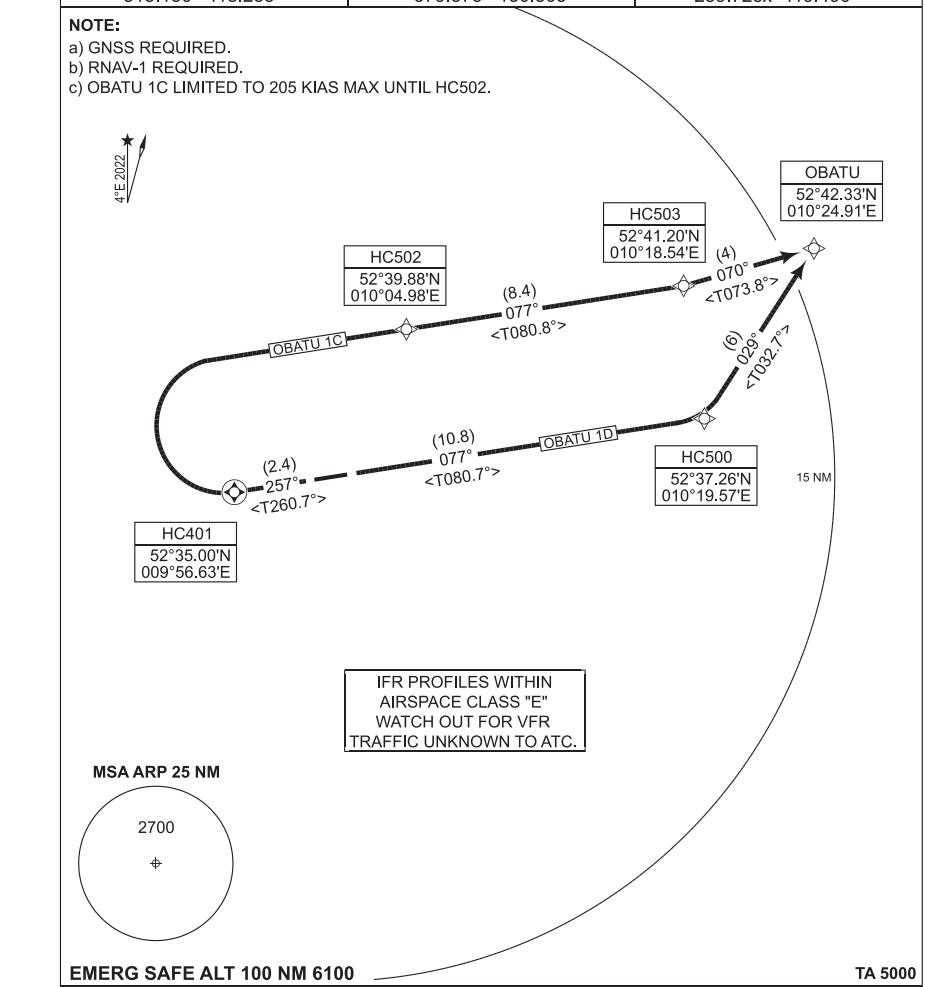
NIE 1C (RWY 26)	- Climb on track 257° to HC401 - Turn right direct to HC404 - To NIE HC401 [M257] - HC404 [R] - NIE
NIE 1D (RWY 08)	- Climb on track 077° to HC501 - Turn left direct to HC402 - To NIE HC501 [M077;K205-] - HC402 [K205-;L] - NIE

CHANGE: EDITORIAL (186/25)

ACC 19 FEB 2026

CELLE TOWER	CELLE RADAR	BREMEN RADAR
315.150 118.255	379.575 130.505	259.725x 119.490

NOTE:
a) GNSS REQUIRED.
b) RNAV-1 REQUIRED.
c) OBATU 1C LIMITED TO 205 KIAS MAX UNTIL HC502.



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

CHANGE: EDITORIAL (186/25)

ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

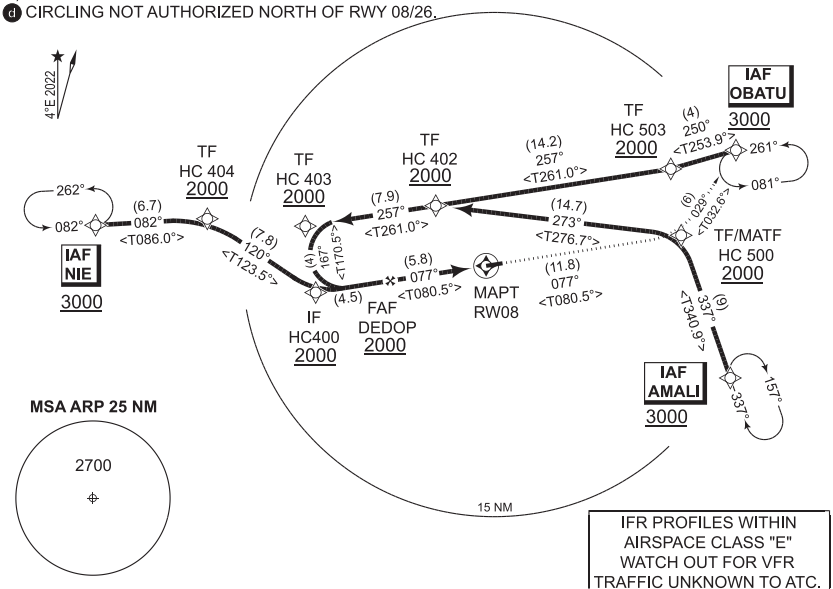
AD ELEV 129

RNP RWY 08
CELLE (ETHC)

BREMEN RADAR	CELLE RADAR	CELLE TOWER
259.725x 119.490	379.575 130.505	315.150 118.255

APP COURSE	FAF ALT	DESCENT GR	MDA / DA	THR ELEV	ALS-LENGTH	LDA
077°	2000	3.0° / 5.2%	**See CAT**	127	-	6006

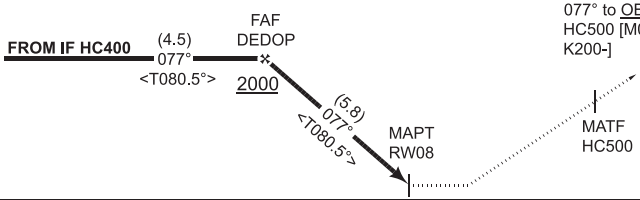
NOTE:
a) GNSS REQUIRED.
b) PROCEDURE LIMITED TO 200 KIAS MAX.
c) BARO-VNAV NOT AUTHORIZED BELOW -30°C
ⓓ CIRCLING NOT AUTHORIZED NORTH OF RWY 08/26.



EMERG SAFE ALT 100 NM 6100

TA 5000

MISSED APPROACH
Climb to HC500 on course 077° to OBATU.
HC500 [M018;L]→OBATU; [A3000 K200-]



CATEGORY	A	B	C	D
LNAV	**480** - 1.5 353 (400-1.5)		**480** - 1.6 353 (400-1.6)	**500** - 1.6 373 (400-1.6)
LNAV/VNAV	**377** - 1.3 250 (300-1.3)		**393** - 1.3 266 (300-1.3)	**417** - 1.4 290 (300-1.4)
ⓓ 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)

MPS

CHANGE: EDITORIAL (179/25)

ACC 19 FEB 2026

RNP RWY 08

52°35.47'N
010°01.33'E

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

CHANGE: EDITORIAL (179/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 129

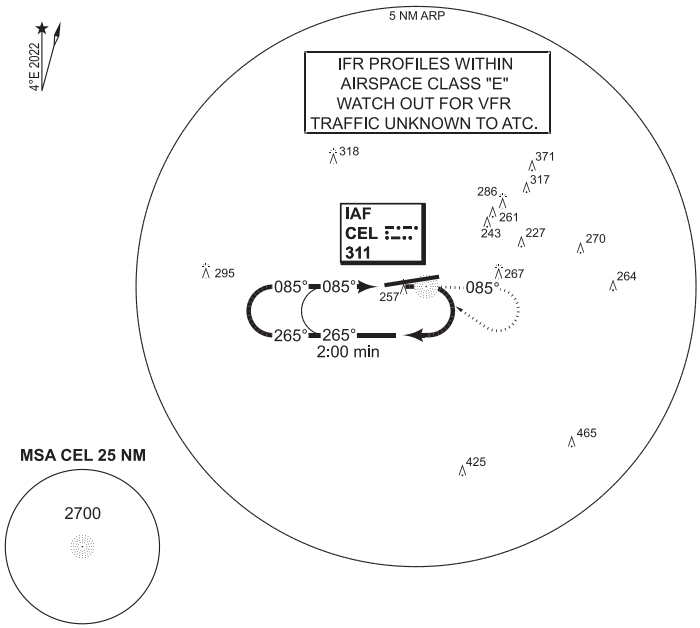
COPTER NDB RWY 08
CELLE (ETHC)

CELLE TOWER	CELLE RADAR	BREMEN RADAR
315.150 118.255	379.575 130.505	259.725x 119.490

NDB	APP COURSE	MDA	TDZE	ALS-Length	LDA
CEL 311	085°	**600**	129	—	6006

CAUTION:
INCREASED DESCENT RATE ON FINAL.

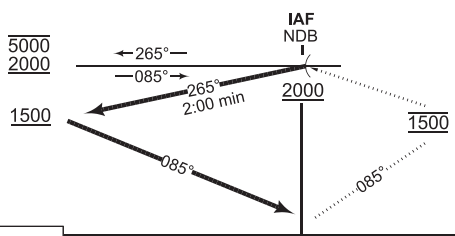
IAF
52°35.38'N
010°01.77'E



MSA CEL 25 NM

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)

MIPS

CHANGE: EDITORIAL (179/25)

ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

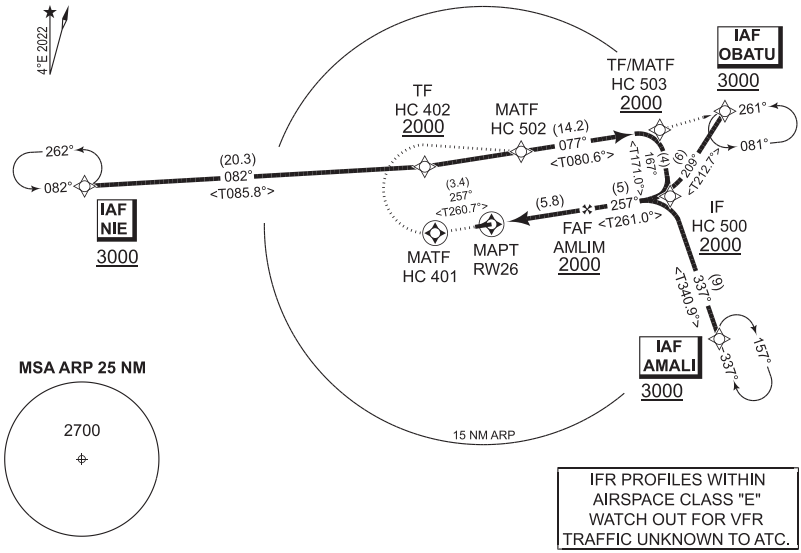
AD ELEV 129

RNP RWY 26
CELLE (ETHC)

BREMEN RADAR	CELLE RADAR	CELLE TOWER
259.725x 119.490	379.575 130.505	315.150 118.255

APP COURSE	FAF ALT	DESCENT GR	MDA / DA	THR ELEV	ALS-LENGTH	LDA
257°	2000	3.0° / 5.2%	**See CAT**	129	998 M	6006

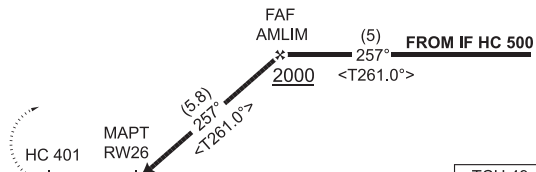
NOTE:
a) GNSS REQUIRED.
b) PROCEDURE LIMITED TO 200 KIAS MAX.
c) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
d) CIRCLING NOT AUTHORIZED NORTH OF RWY 08/26.



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



	CATEGORY	A	B	C	D
MIPS	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)
	d 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)

CHANGE: EDITORIAL (179/25)

ACC 19 FEB 2026

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

CHANGE: EDITORIAL (179/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 129

NDB RWY 26
CELLE (ETHC)

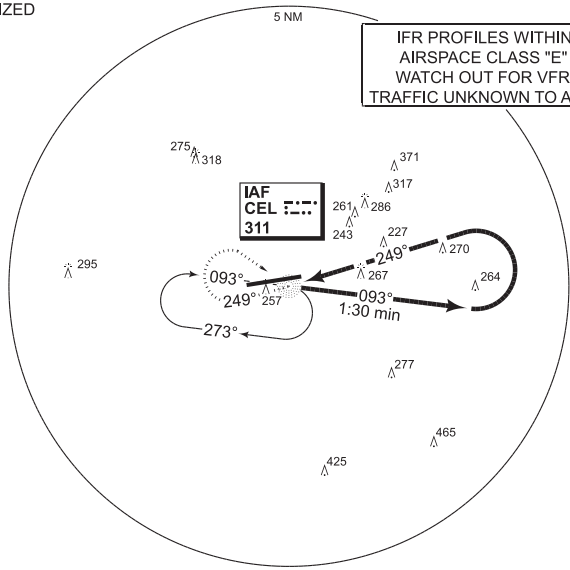
CELLE TWR	CELLE RADAR	BREMEN RADAR
315.150 118.255	379.575 130.505	259.725x 119.490

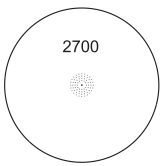
NDB	APP COURSE	MDA	TDZE	ALS-Length	LDA
CEL 311	249°	**570**	129	998 M	6006

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

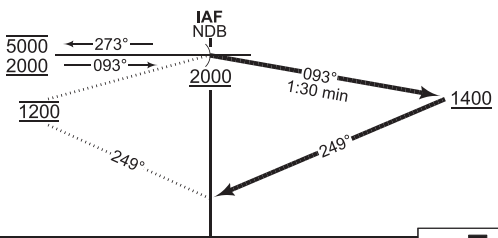
4°E 2022





EMERG SAFE ALT 100 NM 6100

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.

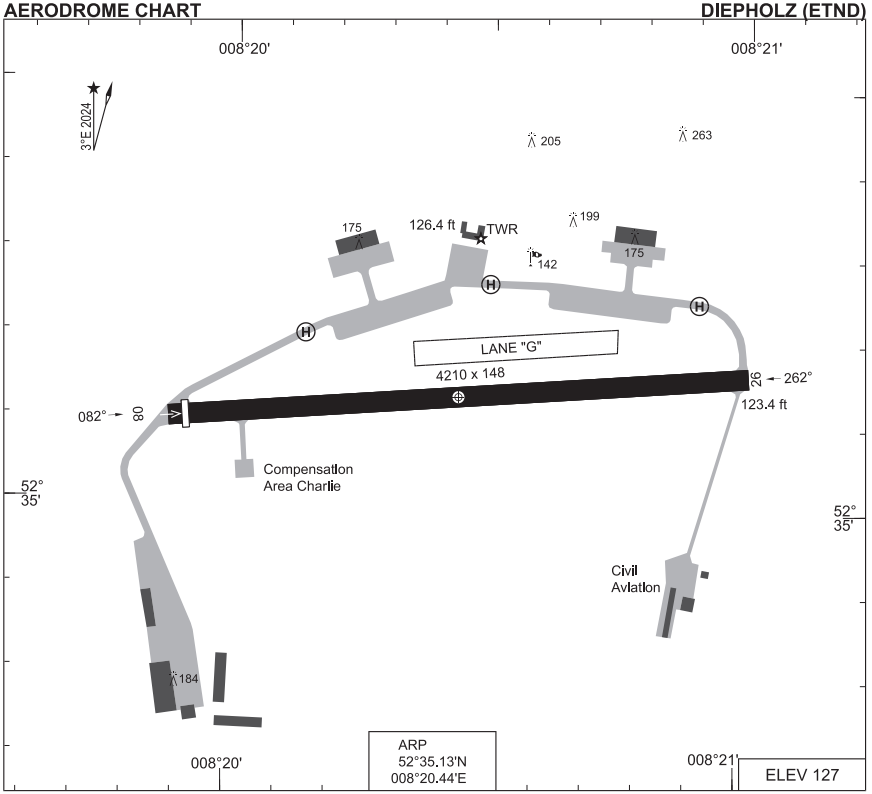


CATEGORY	A	B
NDB RWY 26	**570** - 1.4 441 (500-1.4/1.5)	
C CIRCLING	**570** - 2.1 441 (500-2.1)	**630** - 2.4 501 (600-2.4)

MIPS

CHANGE: EDITORIAL (179/25)

ACC 19 FEB 2026



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

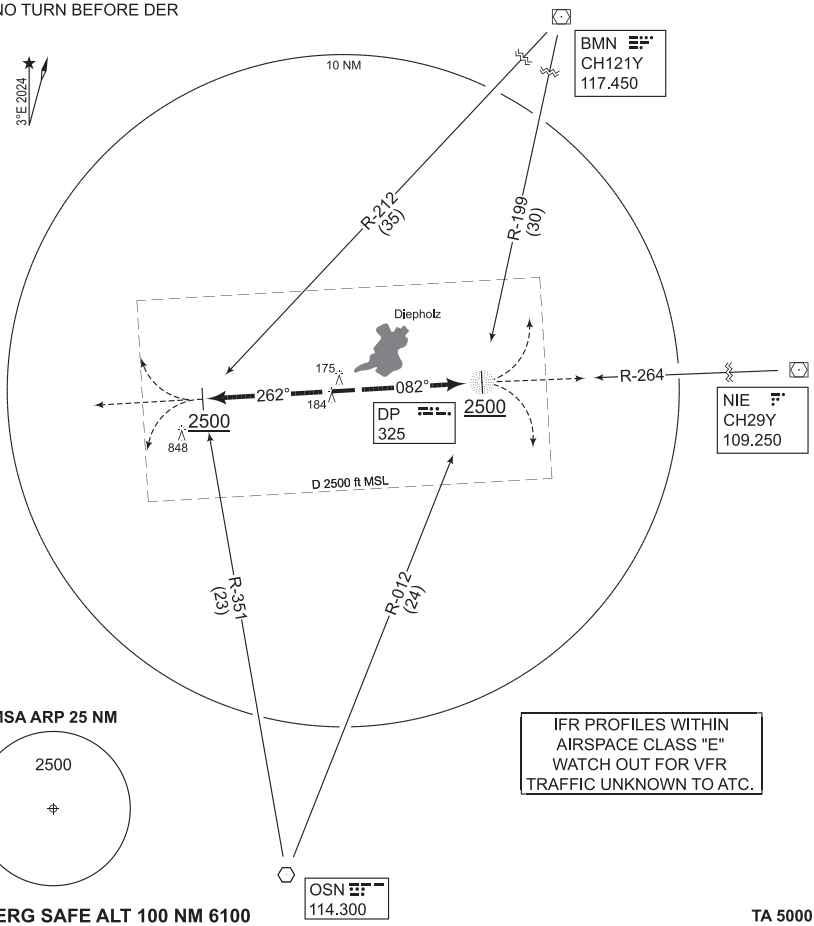
CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

DIEPHOLZ TWR	BREMEN RADAR
379.300 135.130	389.325 125.025

RWY	from-to	60	120	180	240	Reason
08 26	DER - 2500 ft	590	1180	1770	2360	ATC

NOTE:
a) NO TURN BEFORE DER



EMERG SAFE ALT 100 NM 6100

TA 5000

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

CHANGE: EDITORIAL (079/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 127

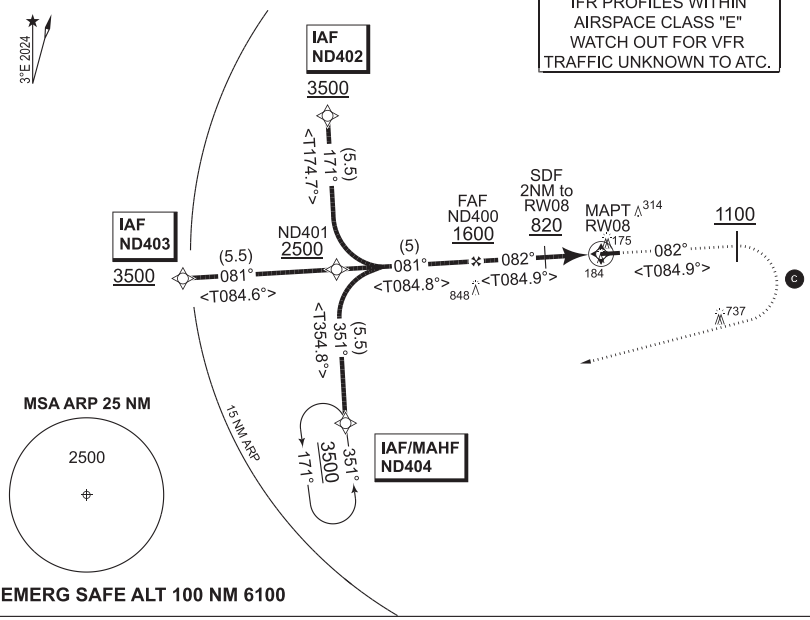
RNP RWY 08
DIEPHOLZ (ETND)

BREMEN RADAR	DIEPHOLZ TOWER
389.325 125.025	379.300 135.130

APP COURSE	FAF ALT	GS	MDA/DA	THR ELEV	LDA
082°	1600	3° / 5.2%	**See CAT**	126	4090

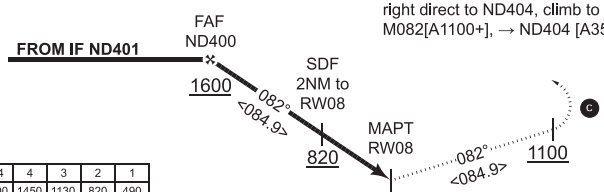
NOTE:
a) GNSS REQUIRED.
b) BARO/VNAV NOT AUTHORIZED BELOW -30°C.
Ⓒ MISSED APPROACH TURN LIMITED TO 160 KIAS MAX.

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

TCH 50

4.5

THR ELEV 126

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)

MIPS

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

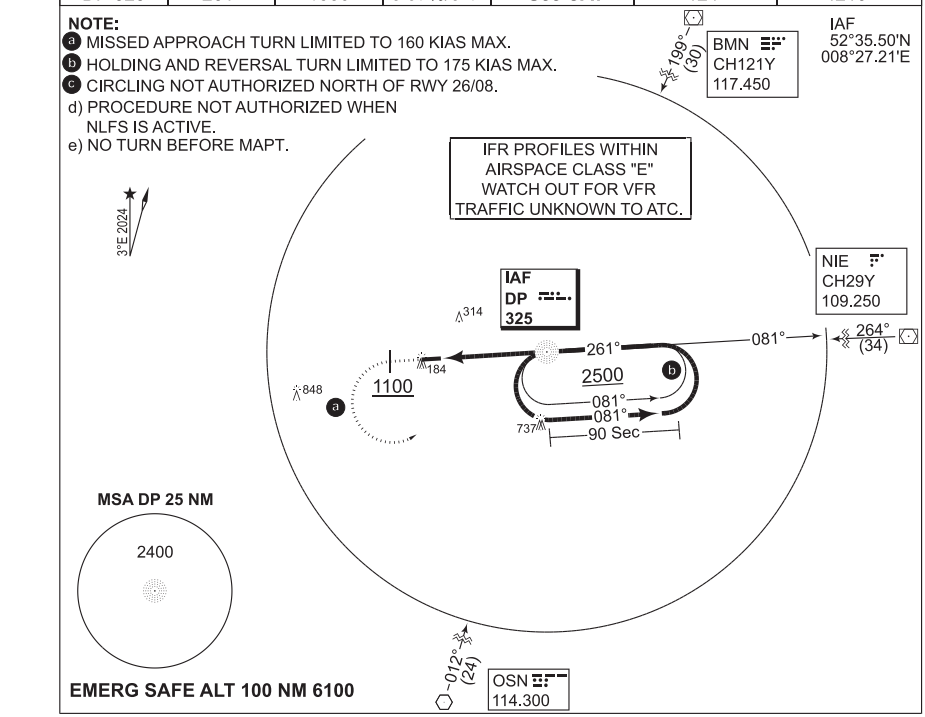
RWY 08	52 35 06.08 N 008 19 54.61 E	52 35.101 N 008 19.910 E

CHANGE: EDITORIAL (180/25)
ACC 19 FEB 2026

AD ELEV 127

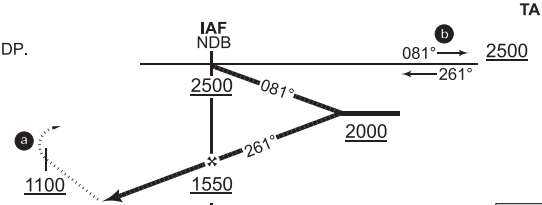
BREMEN RADAR		DIEPHOLZ TWR				
389.325	125.025	379.300	135.130			
NDB	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	LDA
DP 325	261°	1550	5.97%/3.4°	**See CAT**	124	4210

NOTE:
- (a) MISSED APPROACH TURN LIMITED TO 160 KIAS MAX.
- (b) HOLDING AND REVERSAL TURN LIMITED TO 175 KIAS MAX.
- (c) CIRCLING NOT AUTHORIZED NORTH OF RWY 26/08.
- d) PROCEDURE NOT AUTHORIZED WHEN NLFS IS ACTIVE.
- e) NO TURN BEFORE MAPT.



MISSED APPROACH
Climb on Track 261° to 2500 ft.
When passing 1100 ft turn left direct DP.
Enter Holding.

TA 5000



NDB to MAP 3.8 NM					
Knots	60	90	120	140	160
Min:sec	3:48	2:32	1:54	1:38	1:26
ft/min	370	560	750	870	1000

CATEGORY	A	B	C
NDB 26	**560** - 1.5 436 (500-1.5)		**560** - 2.0 436 (500 - 2.0)
(c) CIRCLING	**560** - 2.0 433 (500 - 2.0)	**620** - 2.3 493 (500 - 2.3)	**1340** - 5.0 1213 (1300 - 5.0)

MIPS

CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

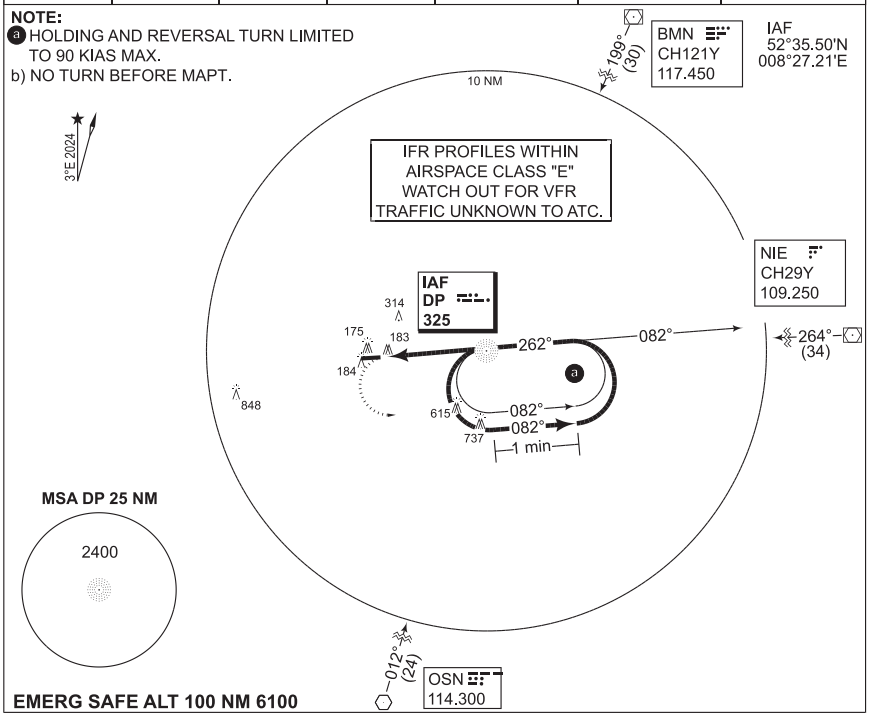
PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 127

COPTER NDB RWY 26
DIEPHOLZ (ETND)

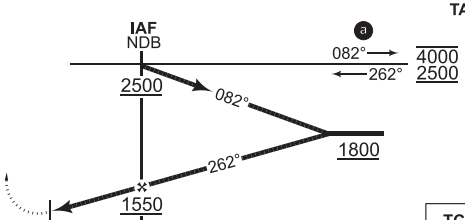
BREMEN RADAR		DIEPHOLZ TWR				
389.325	125.025	379.300	135.130			
NDB	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	LDA
DP 325	262°	1550	5.97%/3.4°	**560**	124	4210

NOTE:
ⓐ HOLDING AND REVERSAL TURN LIMITED TO 90 KIAS MAX.
b) NO TURN BEFORE MAPT.



MISSED APPROACH
Turn left direct to DP, climb to 2500 ft.

TA 5000



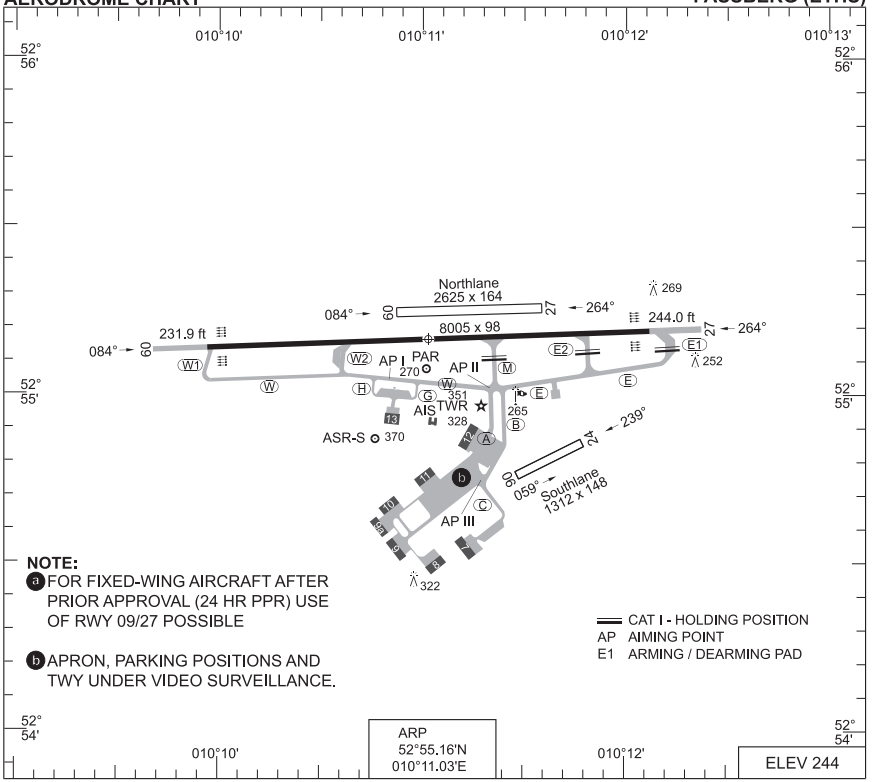
NDB to MAP 3.8 NM			
Knots	60	90	120
Min:sec	3:48	2:32	1:54
ft/min	370	560	750

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

MIPS

CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026



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	TERPS	670 - 1.3 426 (500-1.3/1.5)
							CDE		670 - 1.3 426 (500-1.3/2.0)
	TERPS	265					COPTER	TERPS	670 - 1.3 426 (500-1.3/1.5)

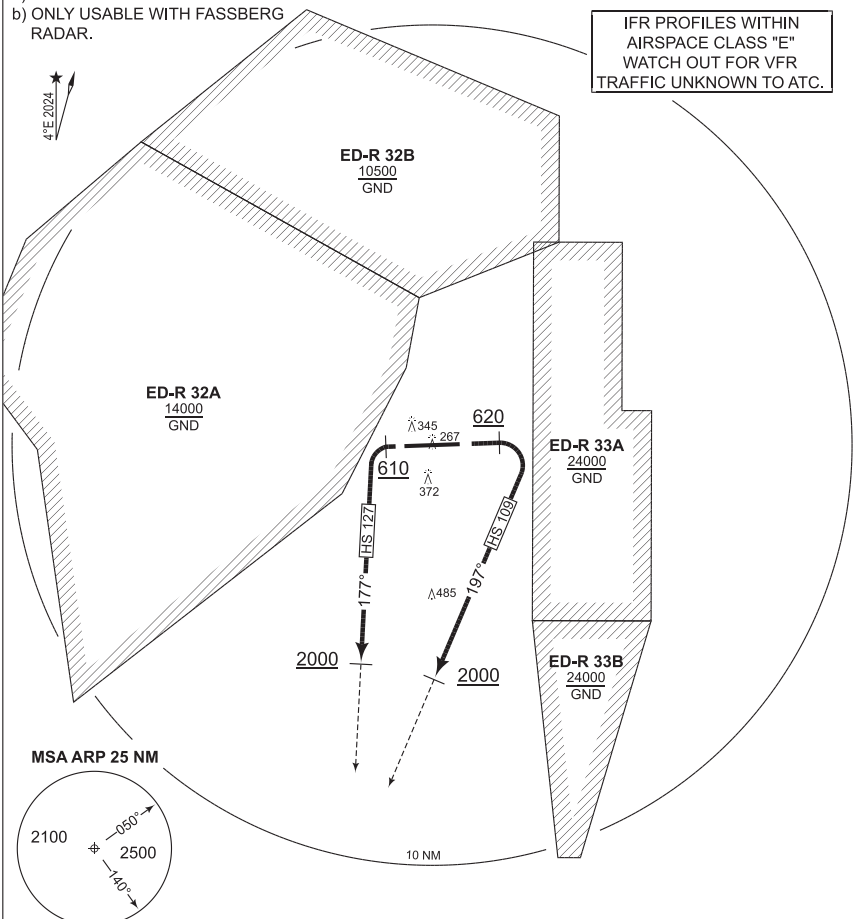
CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

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

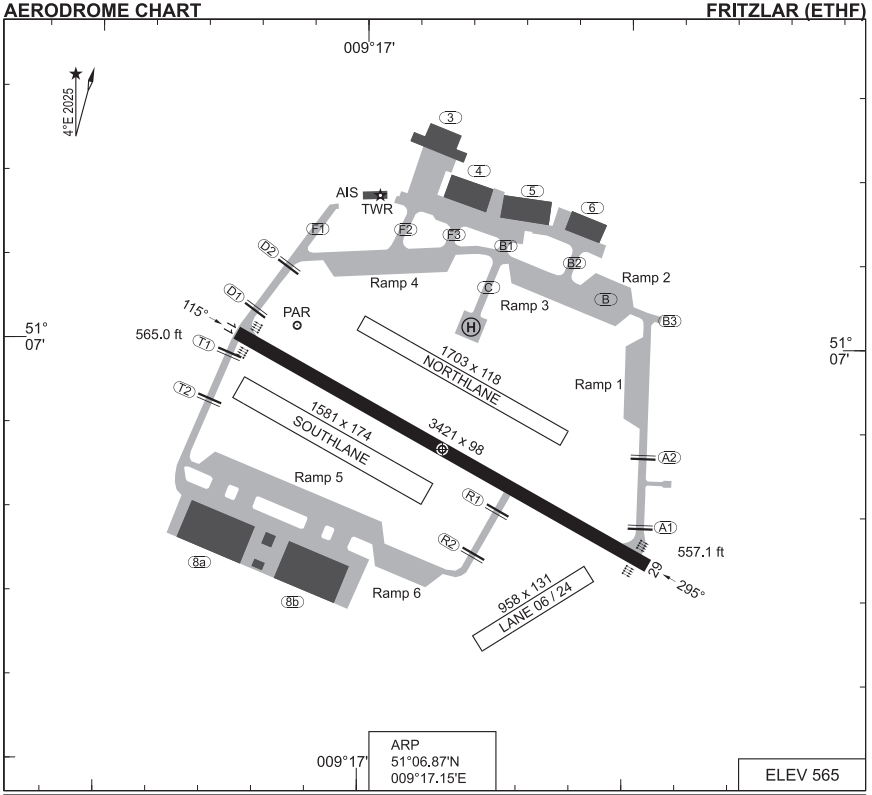
NOTE:
a) PROCEDURES FOR HELICOPTER ONLY.
b) ONLY USABLE WITH FASSBERG RADAR.



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

CHANGE: EDITORIAL (180/25)
ACC 19 FEB 2026



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
11	25 F/B/W/U	3421	3421	3421	3421	4.4°		565	51°07.01'N 009°16.76'E
29	25 F/B/W/U	3421	3421	3421	3421	3.4°		564	51°06.74'N 009°17.54'E

FRITZLAR RADAR 253.500 123.300 120.865 SSR Codes 6140 - 6147
FRITZLAR TOWER 247.950

MISSED APCH / PDG
(a) 304 ft/NM / 5.0% (REASON ATC)

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	MIPS	29	3.4°	36			ABCD	MIPS	758 - 0.8 200 (200-0.8/1.2) (a)

CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

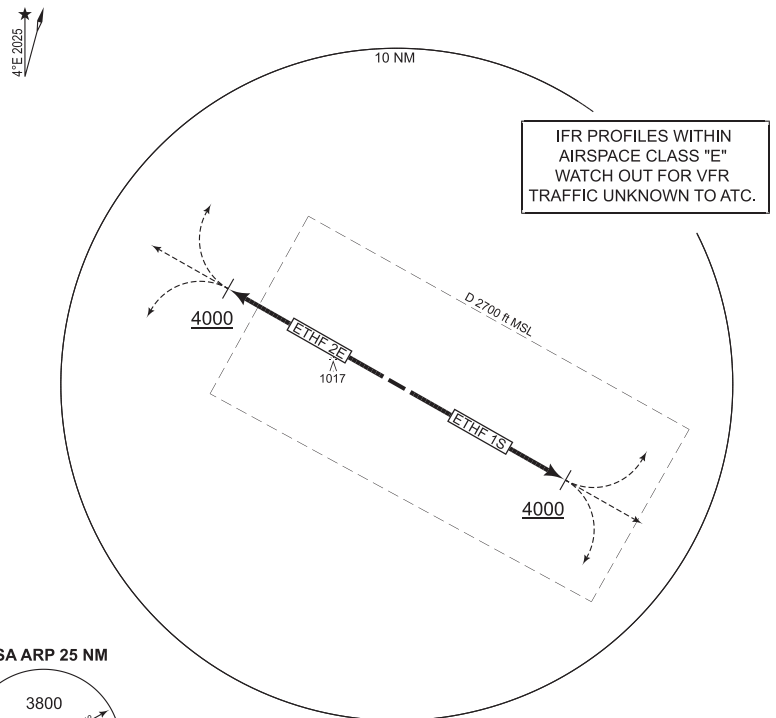
AD ELEV 565

ETHF 1S - 2E
FRITZLAR (ETHF)

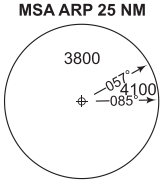
FRITZLAR TOWER	FRITZLAR RADAR	LANGEN RADAR
247.950 122.100	253.500 123.300 120.865	296.950 127.725

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

RWY	from-to	60	120	180	240	300	Reason
11	DER - 4000 ft	365	730	1095	1460	1825	ATC
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

CHANGE: REVISED CHART (147/26)

ACC 06 AUG 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 565

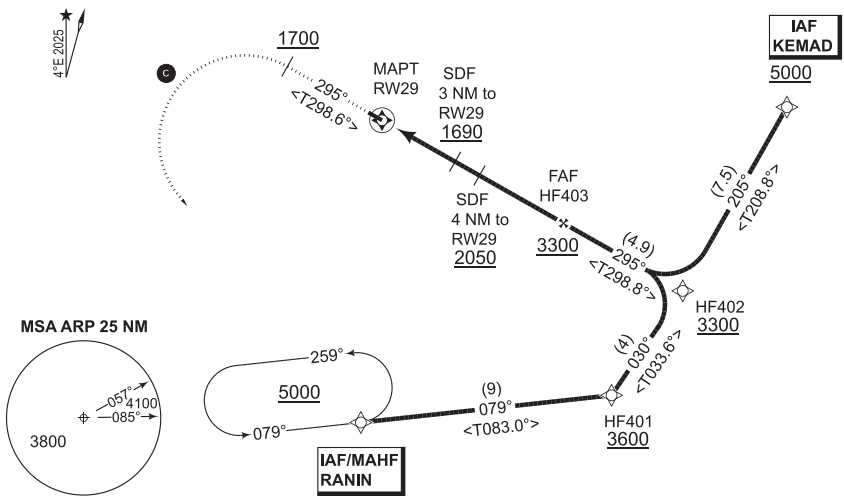
RNP RWY 29
FRITZLAR (ETHF)

LANGEN RADAR	FRITZLAR RADAR	FRITZLAR TOWER
296.950 127.725	253.500 123.300 120.865	247.950 122.100

APP COURSE	FAF ALT	DESCENT GR	DA/MDA	THR ELEV	ALS-LENGTH	LDA
295°	3300	3.4° / 5.9%	**See CAT**	558	600 M	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.

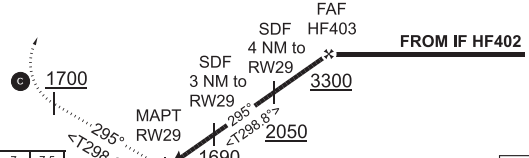
IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 6100

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

TA 5000



Dist THR / RW29	2	3	4	5	6	7	7.5
Altitude	1330	1690	2050	2410	2770	3140	3300

TCH 50
THR ELEV 558 ← 7.5 →
S-ALS

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)

MPS

CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

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

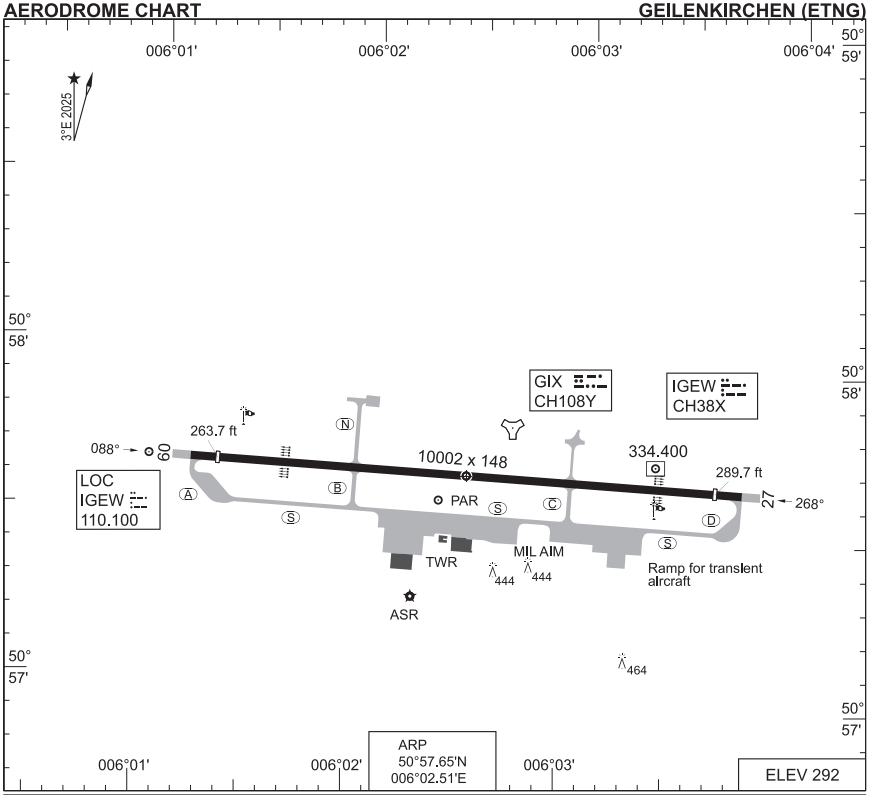
RNP RWY 29 FROM KEMAD:

	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

CHANGE: EDITORIAL (180/25)
ACC 19 FEB 2026



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)

CHANGE: PCR (102/26)

ACC 11 JUN 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

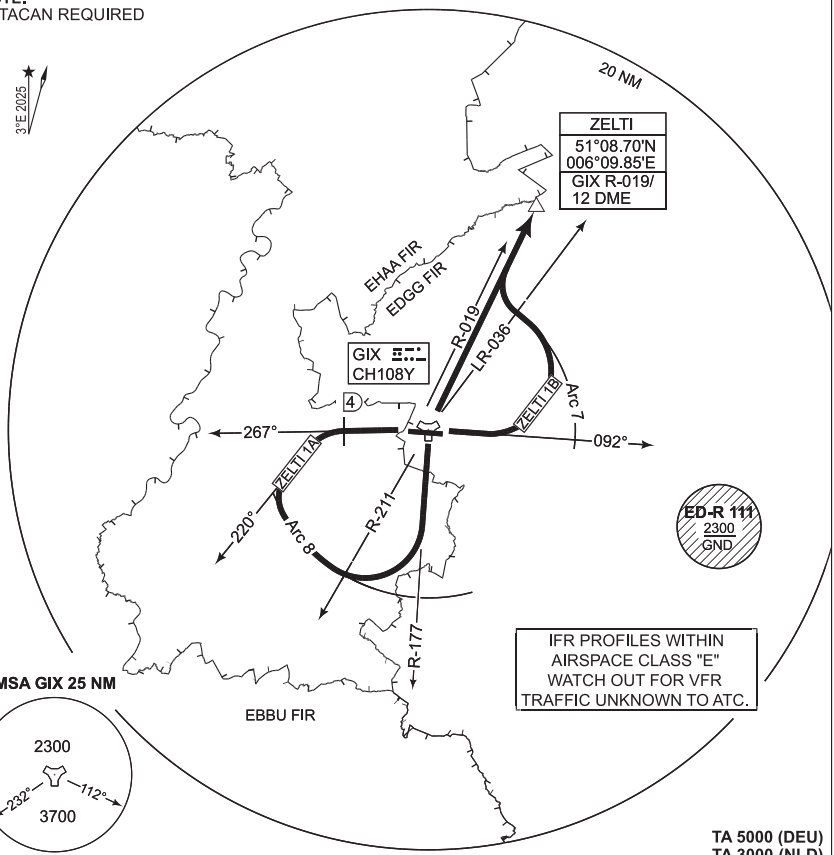
AD ELEV 292

ZELTI 1A - 1B
GEILENKIRCHEN (ETNG)

FRISBEE TOWER	FRISBEE RADAR	LANGEN RADAR
357.375 120.055 118.090	267.400 123.730	359.875 119.110

BEEK RADAR
340.850 123.980

NOTE:
a) TACAN REQUIRED



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

CHANGE: REVISED CHART (149/26)

ACC 06 AUG 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 292

LNO 1A - 1B
GEILENKIRCHEN (ETNG)

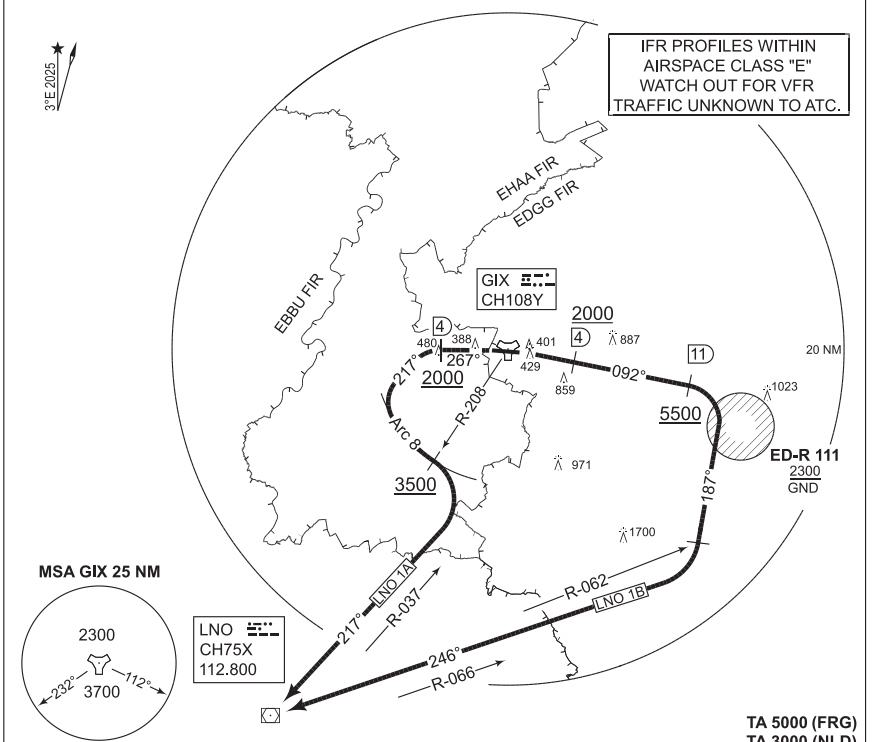
FRISBEE TOWER	FRISBEE RADAR	LANGEN RADAR
357.375 120.055 118.090	267.400 123.730	359.875 119.110

BEEK RADAR
340.850 123.980

RWY	from - to	60	120	180	240	300	360	Reason
27	DER - 2000 ft	550	1100	1650	2200	2750	3300	ATC
09	DER - 5500 ft	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

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

CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 292

NG 209 - 227
GEILENKIRCHEN (ETNG)

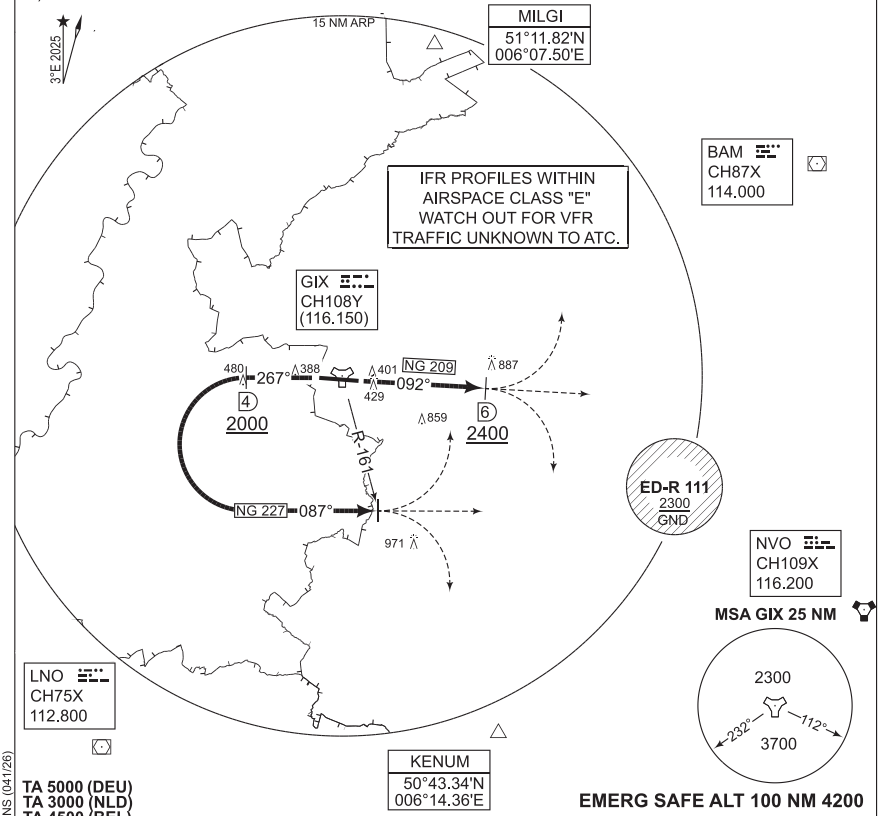
FRISBEE TOWER	FRISBEE RADAR	LANGEN RADAR
357.375 120.055 118.090	267.400 123.730	359.875 119.110

BEEK RADAR
340.850 123.980

RWY	from - to	60	120	180	240	300	360	Reason
09	DER - 2400 ft	395	790	1185	1580	1975	2370	ATC
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:
a) DME REQUIRED.
b) PROCEDURE LIMITED TO 230 KIAS MAX.



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

EMERG SAFE ALT 100 NM 4200

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

CHANGE: CLIMB INSTRUCTIONS (041/26)

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

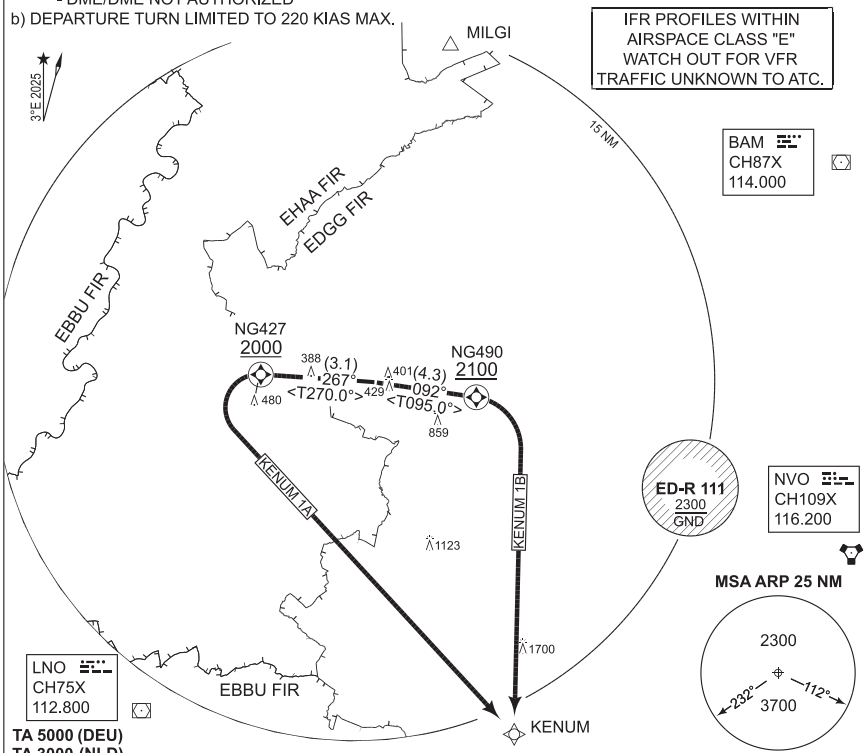
LANGEN RADAR
359.875 119.110

RWY	from - to	60	120	180	240	300	360	Reason
09	DER - 2100 ft	414	828	1242	1656	2070	2484	ATC
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.



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

CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

FRISBEE TOWER	FRISBEE RADAR	BEEK RADAR
357.375 120.055 118.090	267.400 123.730	340.850 123.980

LANGEN RADAR
359.875 119.110

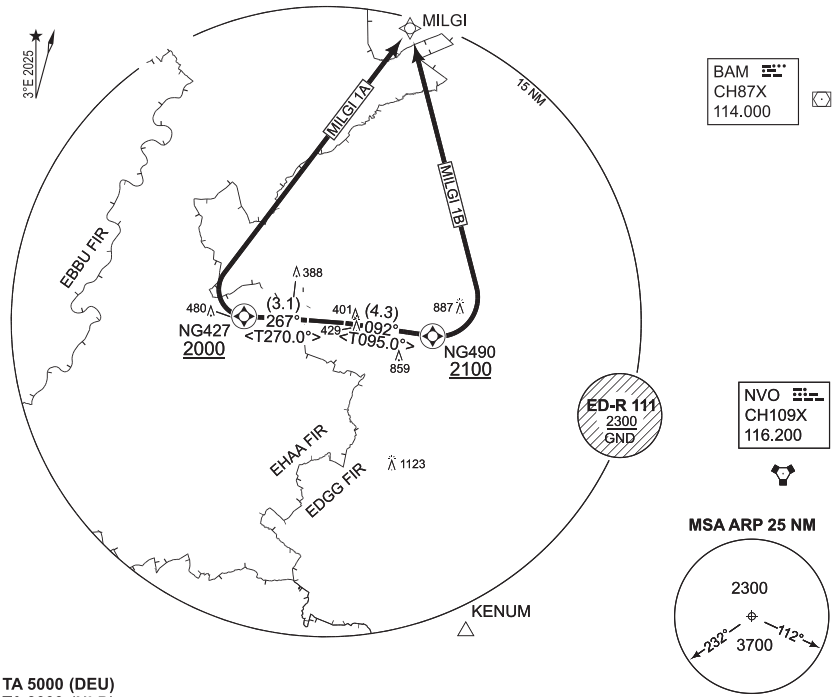
RWY	from - to	60	120	180	240	300	360	Reason
09	DER - 2100 ft	414	828	1242	1656	2070	2484	ATC
27	DER - 2000 ft	559	1118	1677	2236	2795	3354	ATC

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 MAXIMUM

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



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

EMERG SAFE ALT 100 NM 4200

MILGI 1A (RWY 27)	- 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
MILGI 1B (RWY 09)	- 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

CHANGE: EDITORIAL (180/25)

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

CHANGE: EDITORIAL (180/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 292

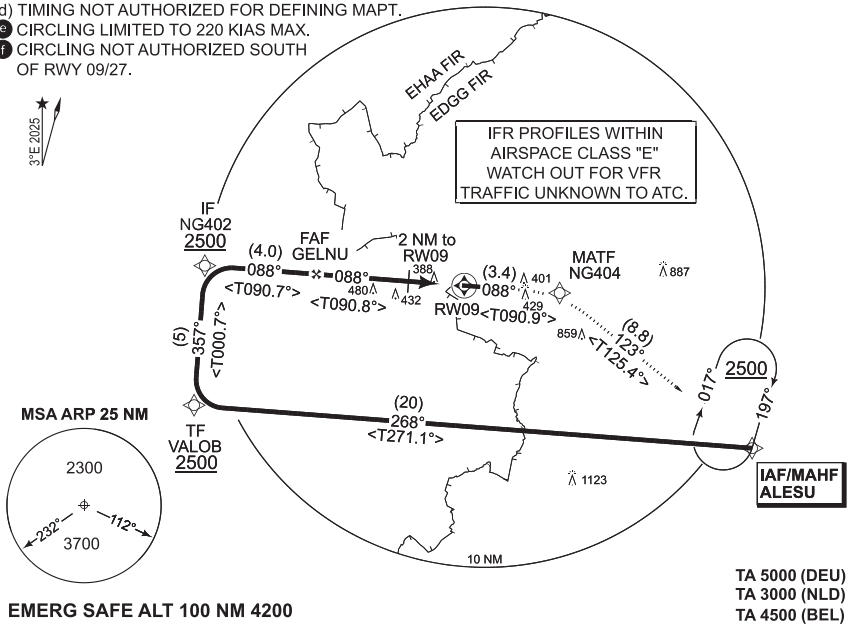
RNAV (GNSS) RWY 09
GEILENKIRCHEN (ETNG)

LANGEN RADAR	FRISBEE RADAR	FRISBEE TOWER	ATIS
359.875 119.110	267.400 123.730	357.375 120.055 118.090	375.550

BEEK RADAR	APP COURSE	FAF ALT	DESCENT GR	DA/MDA	TDZE	ALS-LENGTH	LDA
340.850 123.980	088°	2000	3.0° / 5.2%	**640**	264	560 M	9515

NOTE:
a) GNSS REQUIRED.
b) PROCEDURE LIMITED TO 220 KIAS MAX.
c) BARO/VNAV NOT AUTHORIZED BELOW -15°C.
d) TIMING NOT AUTHORIZED FOR DEFINING MAPT.
e CIRCLING LIMITED TO 220 KIAS MAX.
f CIRCLING NOT AUTHORIZED SOUTH OF RWY 09/27.

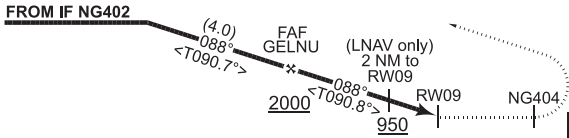
IAF ALESU
50°52.48'N
006°18.10'E



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

EMERG SAFE ALT 100 NM 4200

MISSED APPROACH
Climb on course 088° inbound
NG404, turn right to ALESU.
Climb to 2500 ft.
NG404 [M088] - ALESU [A2500]



TCH 50					
Distance THR	5	4	3	2	1
Altitude	1900	1580	1260	950	630

S-ALS — 5.3 — TDZE 264

CATEGORY	A	B	C	D	E
LNAV	**640** - 1.2 376 (400-1.2/1.6)			**640** - 1.2 376 (400-1.2/2.0)	**NOT AUTHORIZED**
LNAV / VNAV	**640** - 1.2 376 (400-1.2/1.6)			**640** - 1.2 376 (400-1.2/2.0)	**NOT AUTHORIZED**
CIRCLING e f	**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)

MIPS

CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

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

CHANGE: EDITORIAL (180/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 292

TACAN RWY 09
GEILENKIRCHEN (ETNG)

LANGEN RADAR	FRISBEE RADAR	FRISBEE TWR	BEEK RADAR	ATIS
359.875 119.110	267.400 123.730	357.375 120.055 118.090	340.850 123.980	375.550

TACAN	APP COURSE	FAF ALT	Descent GR	DA/MDA	TDZE	ALS-LENGTH	LDA
GIX CH108Y	085°	2000	3.0°/5.2%	**See CAT**	264	560 M	9514

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

3°E 2025

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

IAF
38 DME

GIX
CH108Y

MSA GIX 25 NM

2300
3700
232°
112°

R-265
085°
LR-255
230°
Arc 12
R-230
197°
017°
R-017
092°
267°
6.2
9.5
480
388
432
429
401
889
859
1123

EMERG SAFE ALT 100 NM 4200

10 NM

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

TACAN
IAF
FL100
FL100

MISSED APPROACH
At 1 DME climb on Track 092°
outbound to 3000ft.
At 6 DME turn right heading 267°
and expect radar vectors.

R-230
LR-255
3000
Arc 12
FAF
6.2
SDF
3
V
2
R-265
3000
2000
980
085°
092°

S-ALS
5.3
TDZE 264

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)		
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)

MPS

CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

TACAN RWY 09

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)

PANS-OPS
INSTRUMENT APPROACH CHART

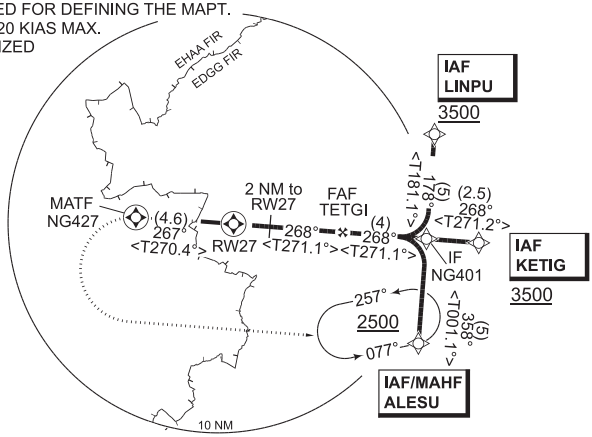
AD ELEV 292

RNAV (GNSS) RWY 27
GEILENKIRCHEN (ETNG)

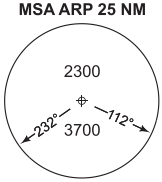
LANGEN RADAR	FRISBEE RADAR	FRISBEE TWR	BEEK RADAR	ATIS
359.875 119.110	267.400 123.730	357.375 118.090 120.055	340.850 123.980	375.550

APP COURSE	FAF ALT	Descent GR	DA/MDA	TDZE	ALS-LENGTH	LDA
268°	2000	3.0°/5.2%	**See CAT**	290	900 M	9518

NOTE:
a) GNSS REQUIRED.
b) PROCEDURE LIMITED TO 220 KIAS MAX.
c) BARO/VNAV NOT AUTHORIZED BELOW -15°C.
d) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
e CIRCLING LIMITED TO 220 KIAS MAX.
f CIRCLING NOT AUTHORIZED SOUTH OF RWY 09/27.



MSA ARP 25 NM

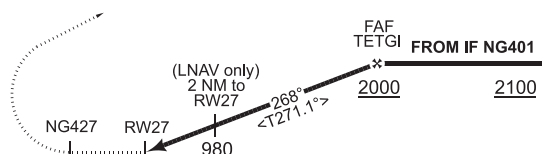


EMERG SAFE ALT 100 NM 4200

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

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

TCH 50
TDZE 290 ◄——5.2——► 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 e f	**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)

MIPS

CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

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

CHANGE: EDITORIAL (180/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 292

ILS Y or LOC RWY 27
GEILENKIRCHEN (ETNG)

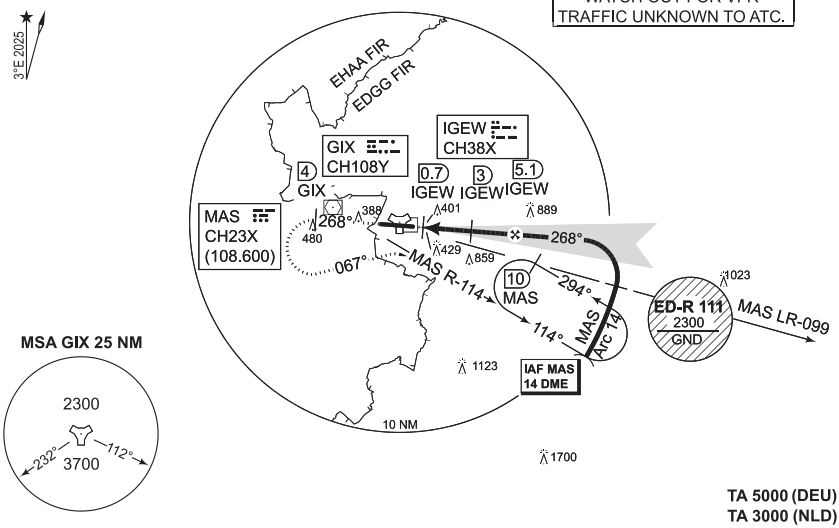
LANGEN RADAR	FRISBEE RADAR	FRISBEE TOWER	BEEK RADAR
359.875 119.110	267.400 123.730 143.400	357.375 120.055 118.090	340.850 123.980

LOCALIZER/DME	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS-LENGTH	LDA
IGEW 110.100/ CH38X	268°	1900	3.0° / 5.2%	**See CAT**	290	900 M	9516

NOTE:
a) DME REQUIRED.
b) NO TURN BEFORE MAPT.
c) PROCEDURE LIMITED TO 220 KIAS MAX.
d) TIMING NOT AUTHORIZED FOR DEFINING MAPT.
e CIRCLING LIMITED TO 220 KIAS MAX.
f 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.

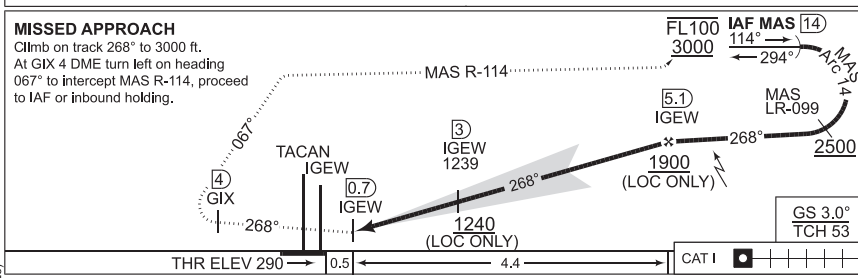


MSA GIX 25 NM

EMERG SAFE ALT 100 NM 4200

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

MISSED APPROACH
CIImb 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.



MIPS	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)		
e f	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)

CHANGE: EDITORIAL (186/25)

ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 292

TACAN RWY 27
GEILENKIRCHEN (ETNG)

LANGEN RADAR		FRISBEE RADAR		FRISBEE TOWER			BEEK RADAR		ATIS
359.875	119.110	267.400	123.730	357.375	120.055	118.090	340.850	123.980	375.550

TACAN	APP COURSE	FAF ALT	MDA	GS	TDZE	ALS-LENGTH	LDA
GIX CH108Y	274°	2000	**730**	5.2%	290	900 M	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.

3°E 2025

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

IAF
51°33.83'N
006°22.05'E

017°
197°
44
21
IAF 38 DME

R-017
R-040
Arc 16

MAS CH23X 108.600
GIX CH108Y

480
388
401
429
266°
889
R-077
LR-085
274°
859
274°
4
1
6
11
1023
R-094
ED-R 111 2300 GND
1123
10 NM

MSA GIX 25 NM
2200
232°
112°
3700

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.

21
R-040
FL100
Arc 16
R-077
FL070
11
LR-085
2800
FAF
6
274°
R-094
2800
2000
TACAN
SDF
2.5
V
1.7
274°
940
4
266°
1
TA 5000 (DEU)
TA 3000 (NLD)
TA 4500 (BEL)

TDZE 290
5.2
CAT I

MIPS	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)

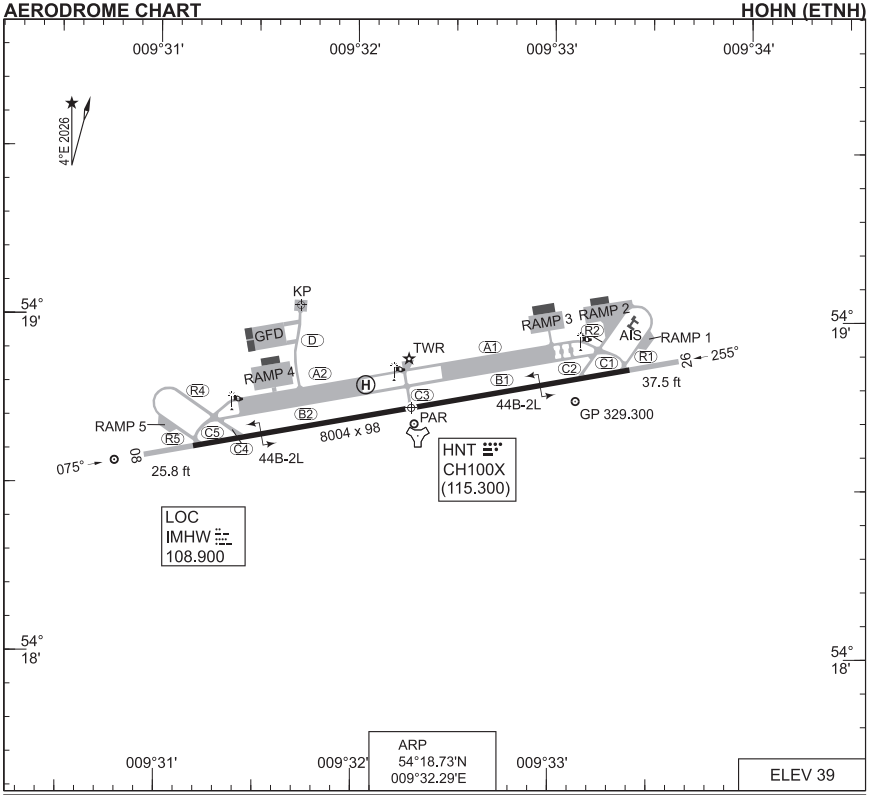
CHANGE: EDITORIAL (180/25)

ACC 19 FEB 2026

TACAN RWY 27

50°57.65'N
006°02.51'E

GEILENKIRCHEN (ETNG)



RWY	LCN	TORA	ASDA	TODA	LDA	PAPI	THR	TDZE	THR PSN
08	84	8004	8004	8004	8004	3.0°	25.8	32	54°18.61'N 009°31.18'E
26	84	8004	8004	8004	8004	3.0°	37.5	38	54°18.85'N 009°33.39'E

HOHN TOWER	336.375	141.700	123.710		
HOHN RADAR	240.725	375.500	141.100	128.380	SSR 4270 - 4277

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	08	3.0°	50		699	ABCDE	MIPS	239- 0.8 550 213 (300-0.8/1.2)
	PANS-OPS	26	3.0°	56		1134	ABCDE	MIPS	238- 0.8 550 200 (200-0.8/1.2)

CHANGE: PAR MINIMA (126/26)

ACC 11 JUN 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 39

NH 108 - 126
HOHN (ETNH)

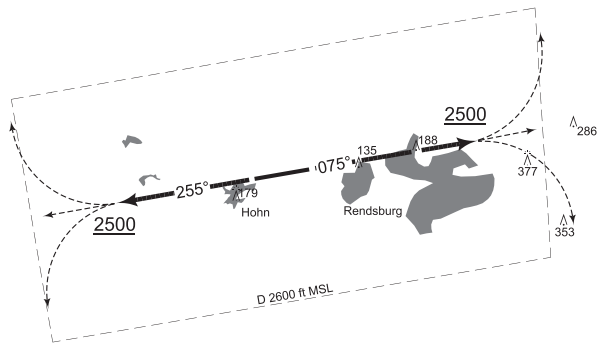
HOHN TWR			HOHN RADAR			BREMEN RADAR	
336.375	141.700	123.710	240.725	141.100	128.380	299.100	124.075

RWY	From to	60	120	180	240	300	Reason
08	DER - 2500 ft	608	1216	1824	2432	3040	ATC
26	DER - 2500 ft	608	1216	1824	2432	3040	ATC

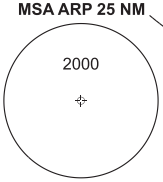
NOTE:
a) NO TURN BEFORE DER.
b) WATCH OUT FOR CLOSE-IN OBSTACLES TREES IN DEPARTURE SECTOR 08/26.
c) MIN. PDG 3.3%

4°E 2026

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



MSA ARP 25 NM



10 NM

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

CHANGE: EDITORIAL (083/26); VAR, FREQ (063/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 39

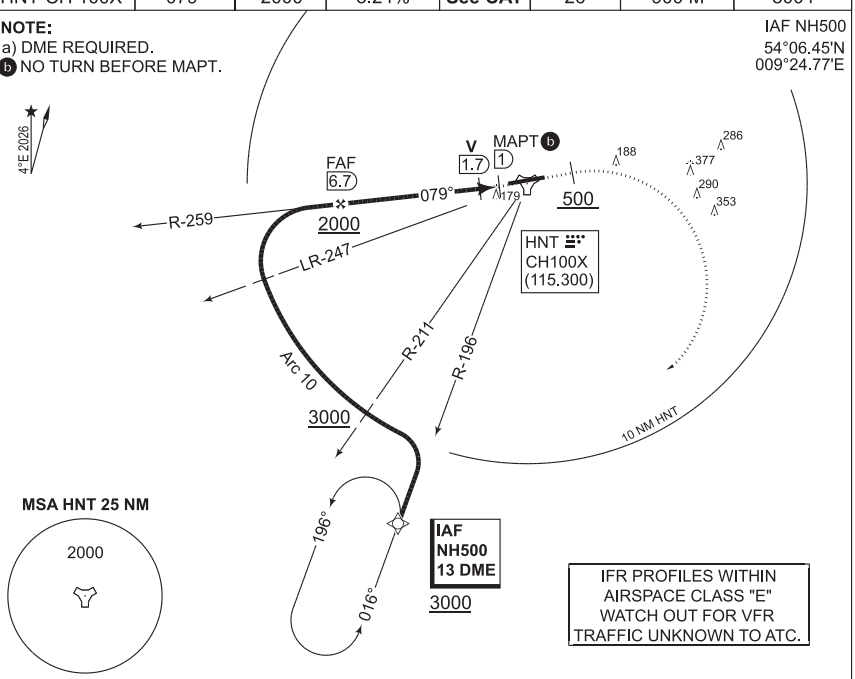
TACAN RWY 08
HOHN (ETNH)

HOHN TWR	HOHN RADAR	BREMEN RADAR
336.375 141.700 123.710	240.725 141.100 128.380	299.100 124.075

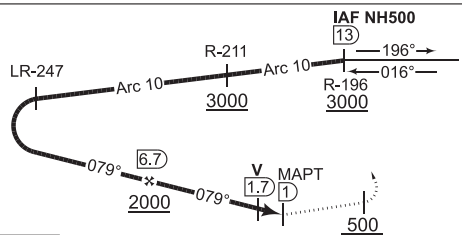
TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
HNT CH 100X	079°	2000	5.24%	**See CAT**	26	900 M	8004

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 right and intercept HNT R-196 inbound to IAF.

HNT	6,7	6	5	4	3	2
Altitude	2000	1780	1460	1140	830	510

TCH 50

CAT I

6

THR ELEV 26

CATEGORY	A	B	C	D	E
TACAN 08	**430** - 1.2 404 (500-1.2/1.5)		**430** - 1.2 404 (500-1.2/1.9)		
PAR 08	**239** - 0.8 550 213 (300-0.8/1.2) GS 3.0°				

MIPS

CHANGE: PAR MINIMA (095/26)

ACC 11 JUN 2026

TACAN RWY 08

54°18.73'N
009°32.29'E

HOHN (ETNH)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 39

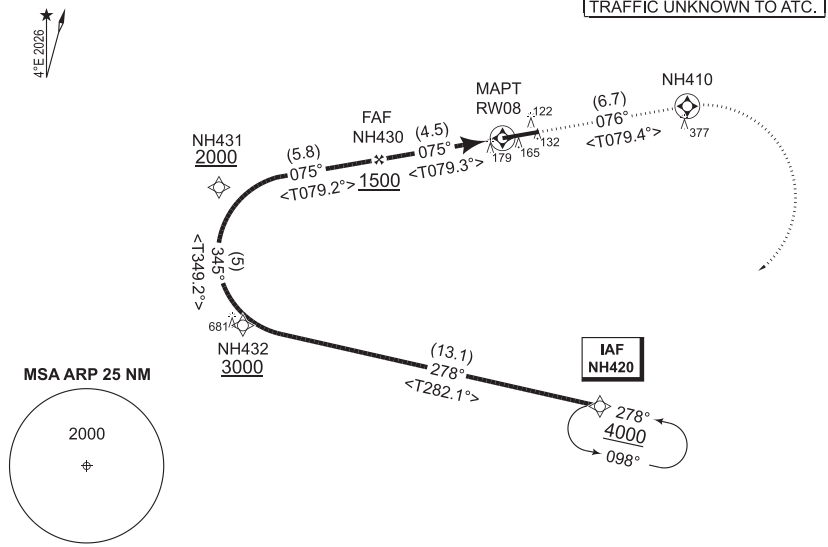
RNP RWY 08
HOHN (ETNH)

HOHN TWR			HOHN RADAR			BREMEN RADAR	
336.375	141.700	123.710	240.725	141.100	128.380	299.100	124.075

APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
075°	1500	3° / 5.2%	**See CAT**	26	900 M	8004

NOTE:
a) GNSS REQUIRED.
b) PROCEDURE LIMITED TO 220 KIAS MAX.
c) BARO/VNAV NOT AUTHORIZED BELOW -30°C.
d) NO TURN BEFORE MAPT.

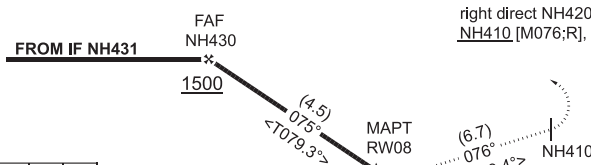
IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 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

4.5 — THR ELEV 26

TCH 50
NO LIGHTS

	CATEGORY	A	B	C	D	E
MIPS	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)

CHANGE: VAR, FREQ, MA (063/26)

ACC 16 APR 2026

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

CHANGE: EDITORIAL (130/26)
ACC 11 JUN 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 39

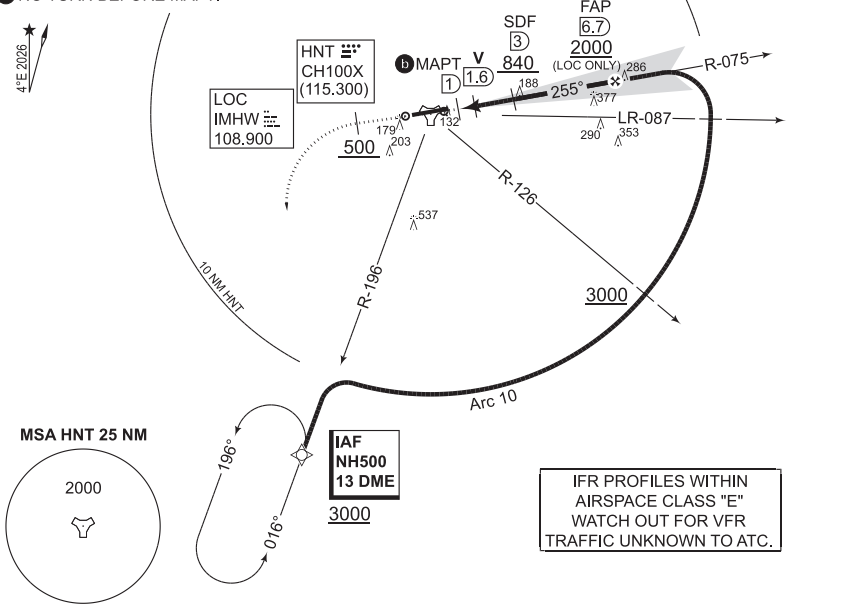
ILS or LOC RWY 26
HOHN (ETNH)

HOHN TWR			HOHN RADAR			BREMEN RADAR	
336.375	141.700	123.710	240.725	141.100	128.380	299.100	124.075

TACAN/LOCALIZER	APP COURSE	FAP ALT	DESCENT GR	DA/MDA	THR ELEV	ALS-LENGTH	LDA
CH100X/IMHW 108.9	255°	2000	5.24%	**See CAT**	38	900 M	8004

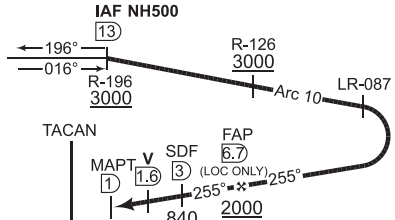
NOTE:
a) DME REQUIRED.
ⓑ NO TURN BEFORE MAPT.

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.



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

TCH 56

THR ELEV 38 — 6 — CAT I

CHANGE: PAR MINIMA (126/26)

MIPS	CATEGORY	A	B	C	D
	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)			

ACC 11 JUN 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 39

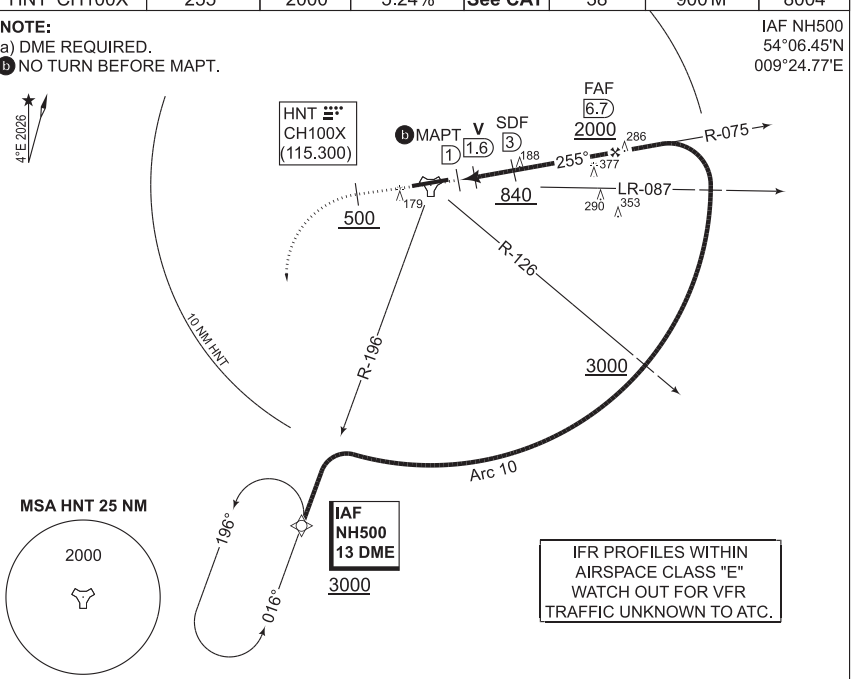
TACAN RWY 26
HOHN (ETNH)

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

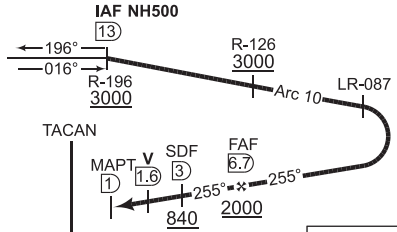
NOTE:
a) DME REQUIRED.
ⓑ NO TURN BEFORE MAPT.

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.



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

CATEGORY	A	B	C	D	E
TACAN 26	**400** - 1.0 362 (400-1.0/1.5)		**400** - 1.0 362 (400-1.0/1.7)		
PAR 26	**238** - 0.8 550 200 (200-0.8/1.2)				

MIPS

CHANGE: PAR MINIMA (126/26)

ACC 11 JUN 2026

TACAN RWY 26

54°18.73'N
009°32.29'E

HOHN (ETNH)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 39

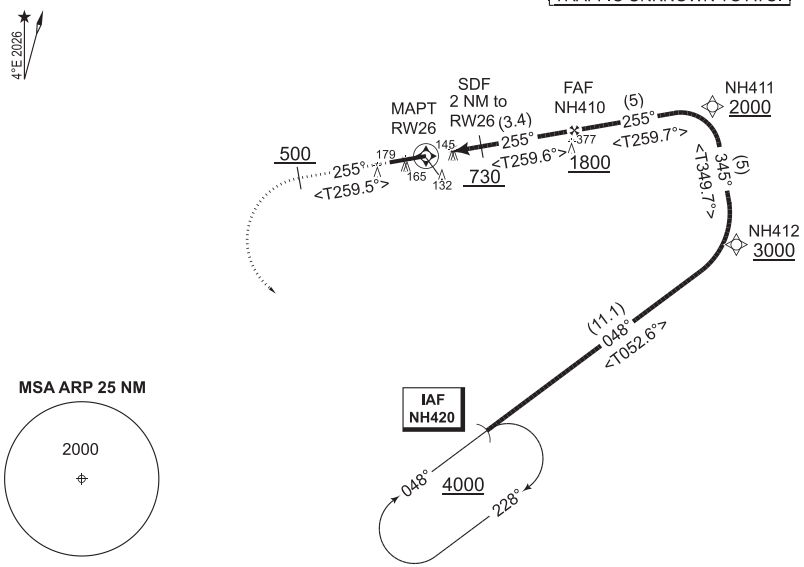
RNP RWY 26
HOHN (ETNH)

HOHN TWR			HOHN RADAR			BREMEN RADAR	
336.375	141.700	123.710	240.725	141.100	128.380	299.100	124.075

APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
255°	1800	3° / 5.2%	**See CAT**	38	900 M	8004

NOTE:
a) GNSS REQUIRED.
b) PROCEDURE LIMITED TO 220 KIAS MAX.
c) BARO/VNAV NOT AUTHORIZED BELOW -30°C.
d) NO TURN BEFORE MAPT.

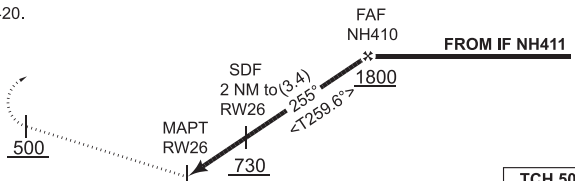
IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 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



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

	CATEGORY	A	B	C	D	E
MIPS	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)

CHANGE: VAR, FREQ, TRACKS, MA (063/26)

ACC 16 APR 2026

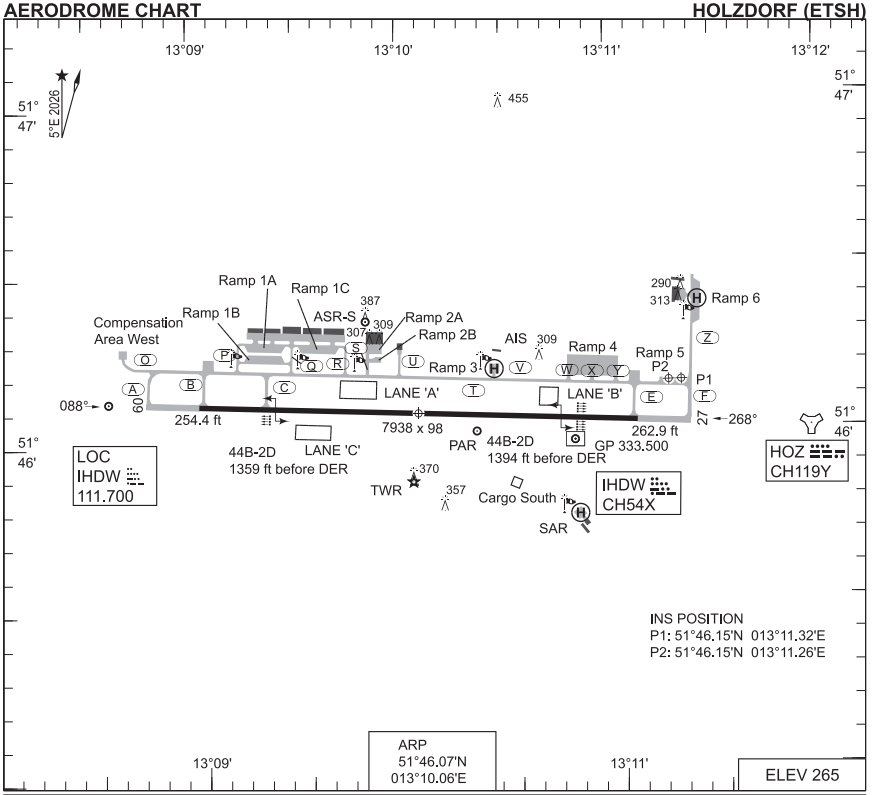
RNP RWY 26 FROM NH420:

	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

CHANGE: EDITORIAL (130/26)
ACC 11 JUN 2026



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
09	120 R/A/W/T	7938	8890	8890	7938	3.0°		260	51°46.11'N 013°09.01'E
27	120 R/A/W/T	7938	8890	8890	7938	3.0°		265	51°46.03'N 013°11.11'E

HOLZDORF TOWER 267.400 130.505 122.100
HOLZDORF RADAR 254.925 397.500 123.300 129.855 SSR 4210 - 4217

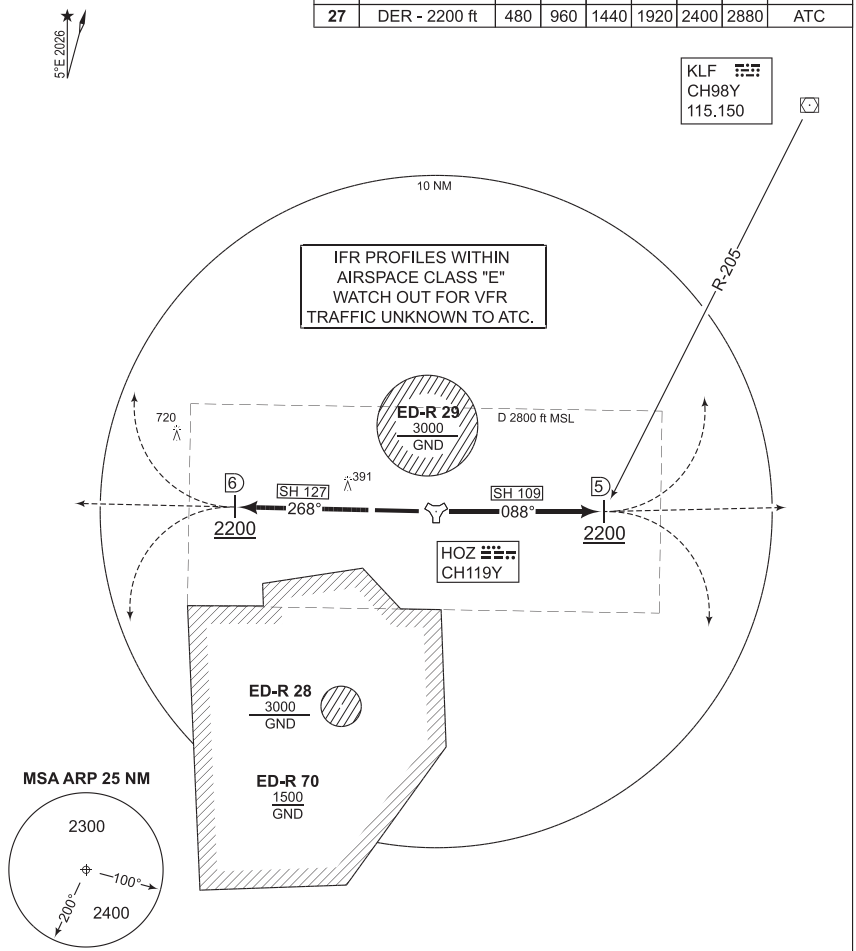
	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	09	3.0°	46		867	ABCDE	MIPS	454 - 0.8/550 200 (200-0.8/1.2)
	PANS-OPS	27	3.0°	47		902	ABCDE	MIPS	463 - 0.8/550 200 (200-0.8/1.2)
SRA	PANS-OPS	09					AB	MIPS	820 - 1.5 560 (600-1.5/2.5)
							CDE		820 - 1.8 560 (600-1.8/2.5)
SRA	PANS-OPS	27					ABCDE	MIPS	680 - 1.2 415 (500-1.2/1.9)

CHANGE: PAR (084/26)

ACC 16 APR 2026

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



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

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

ACC 06 AUG 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 265

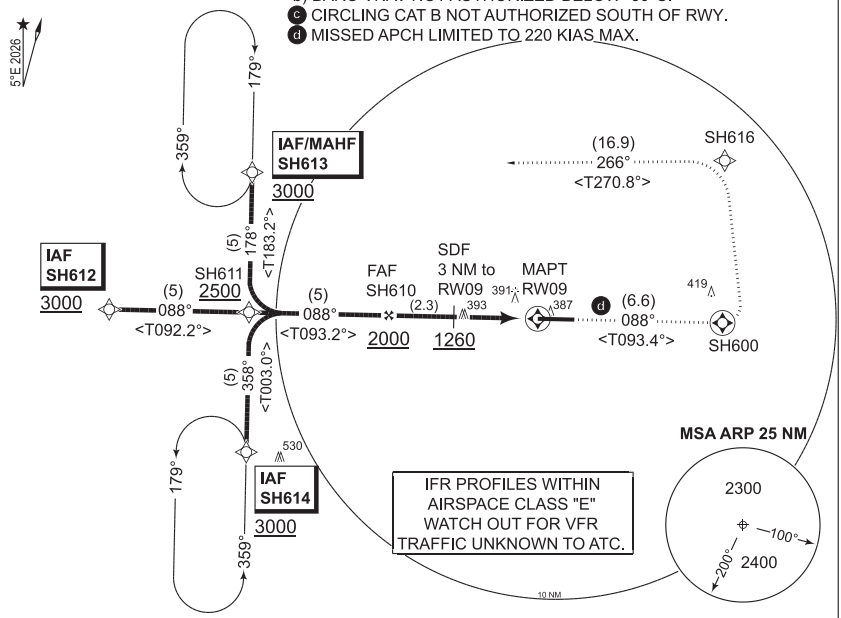
RNP RWY 09
HOLZDORF (ETSH)

BREMEN RADAR	HOLZDORF RADAR	HOLZDORF TOWER
398.575 126.425	254.925 397.500 123.300 129.855	267.400 130.505 122.100

APP COURSE	FAF ALT	DESCENT GR	DA / MDA	THR ELEV	ALS-LENGTH	LDA
088°	2000	3° / 5.2%	**See CAT**	254	900 M	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.

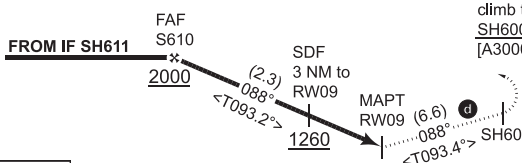


EMERG SAFE ALT 100 NM 6400

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-]



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)
c CIRCLING	**760** - 2.3 495 (500-2.3)		**NOT AUTHORIZED**	

MPS

CHANGE: MINIMA TABLE: EGNOS ADDED (15\26)

ACC 06 AUG 2026

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

CHANGE: EDITORIAL (151/26)
ACC 06 AUG 2026

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	DA / MDA	THR ELEV	ALS-LENGTH	LDA
HOZ CH119Y	088°	1800	5.2%	**See CAT**	254	900 m	7938

NOTE:
a CIRLING CAT B NOT AUTHORIZED SOUTH OF RWY 09/27.
b) DISREGARD PAPI.
c) NO TURN BEFORE MAPT.

IAF
51°33.08'N
013°10.00'E

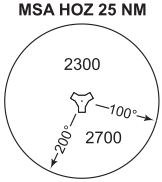
1041

5°E 2026

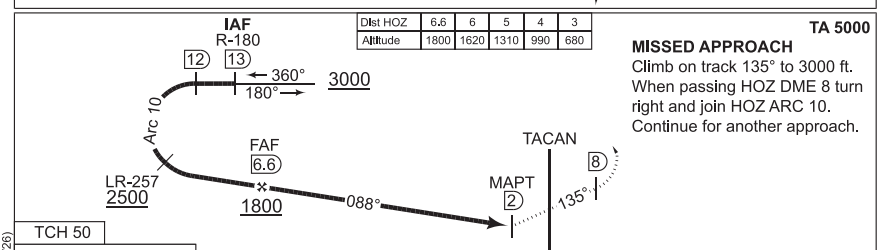
FAF 6.6 416
R-268
088°
1800
LR-257
2500
570
MAPT 2
258
HOZ CH119Y
135°
743
8
857
R-135
R-180
Arc 10
Arc 10
12
942
948
IAF
13 DME
3000
180°
360°
956
R-180

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

MSA HOZ 25 NM



EMERG SAFE ALT 100 NM 6400



Dist HOZ	6.6	6	5	4	3
Altitude	1800	1620	1310	990	680

TA 5000

MISSED APPROACH
Climb on track 135° to 3000 ft.
When passing HOZ DME 8 turn right and join HOZ ARC 10.
Continue for another approach.

CATEGORY	A	B	C	D
TACAN 09	**670** - 1.2 416 (500-1.2/1.5)		**670** - 1.2 416 (500-1.2/1.9)	
a CIRCLING	**760** - 2.3 495 (500-2.3)		**NOT AUTHORIZED**	

MIPS

CHANGE: REVISED CHART (192/26)

ACC 01 OCT 2026

TACAN RWY 09

51°46.07'N
013°10.06'E

HOLZDORF (ETSH)

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

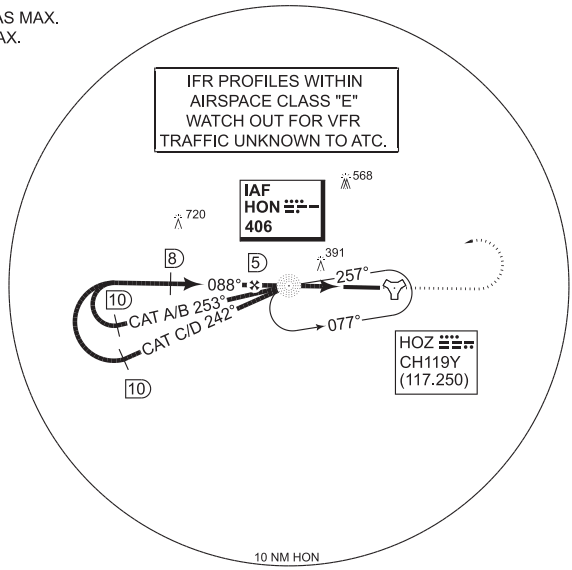
NAVAID	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
HON 406	088°	1400	5.7%	**640**	260	900 M	7938

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.

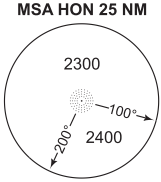
IAF
51°46.22'N
013°05.87'E

5°E 2026

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



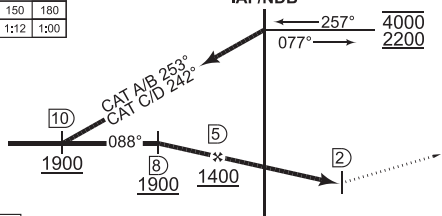
MSA HON 25 NM



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**



MISSED APPROACH
Climb straight ahead to 1500 ft. Turn left inbound HON NDB and climb to 2200 ft.

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**

MIPS

CHANGE: EDITORIAL (183/25)

ACC 19 FEB 2026

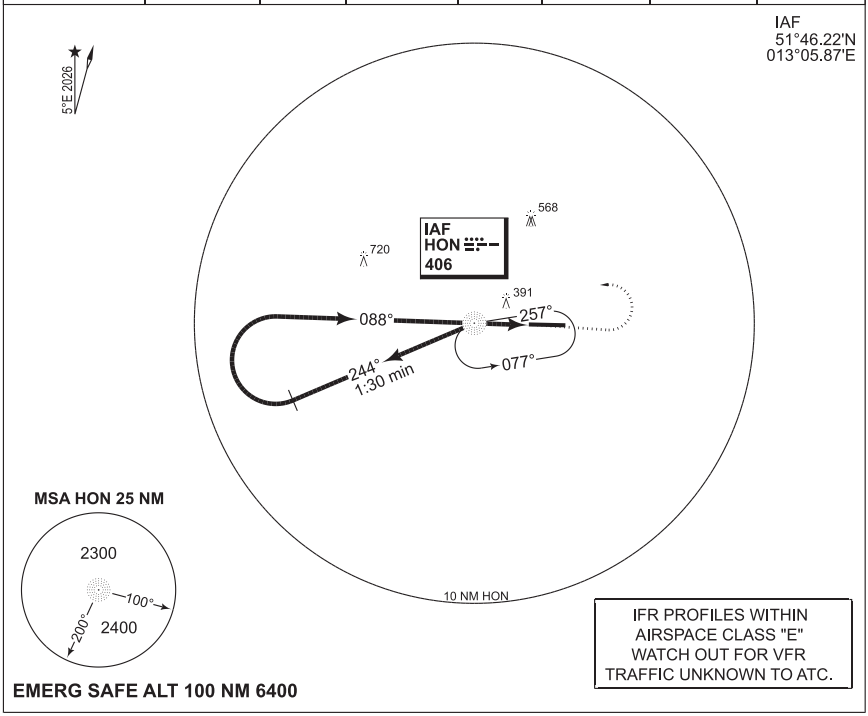
PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 265

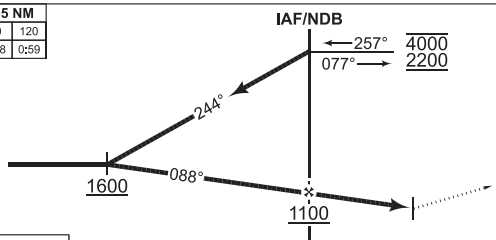
COPTER NDB RWY 09
HOLZDORF (ETSH)

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



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



CAT I

1.95 TDZE 260

CATEGORY	H
COPTER NDB 09	**640** - 0.4 380 (400-0.4/0.8)

MIPS

CHANGE: EDITORIAL (183/25)

ACC 19 FEB 2026

COPTER NDB RWY 09

51°46.07'N
013°10.06'E

HOLZDORF (ETSH)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 265

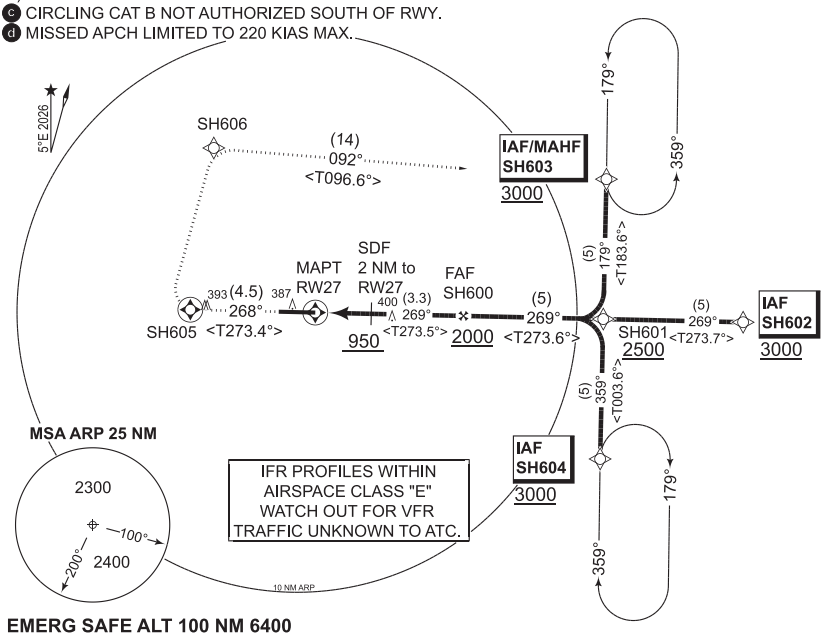
RNP RWY 27
HOLZDORF (ETSH)

BREMEN RADAR	HOLZDORF RADAR	HOLZDORF TOWER
398.575 126.425	254.925 397.500 123.300 129.855	267.400 130.505 122.100

APP COURSE	FAF ALT	DESCENT GR	DA / MDA	THR ELEV	ALS-LENGTH	LDA
269°	2000	3° / 5.2%	**See CAT**	263	900 M	7938

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.

EGNOS CHANNEL
75892 E27A

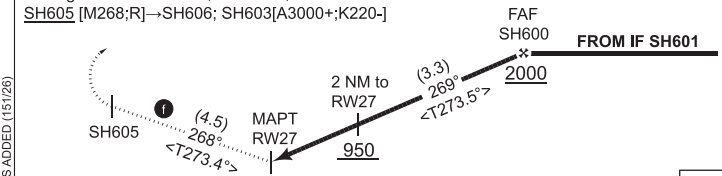


EMERG SAFE ALT 100 NM 6400

MISSED APPROACH f
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



CATEGORY	A	B	C	D
MPS LNAV	**620** - 0.9 357 (400-0.9/1.5)		**620** - 0.9 357 (400-0.9/1.6)	
MPS 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)
MPS 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)
MPS c CIRCLING	**760** - 2.3 495 (500-2.3)		**NOT AUTHORIZED**	

CHANGE: MINIMA TABLE: EGNOS ADDED (151/26)

ACC 06 AUG 2026

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

CHANGE: EDITORIAL (151/26)
ACC 06 AUG 2026

PANS-OPS
INSTRUMENT APPROACH CHART

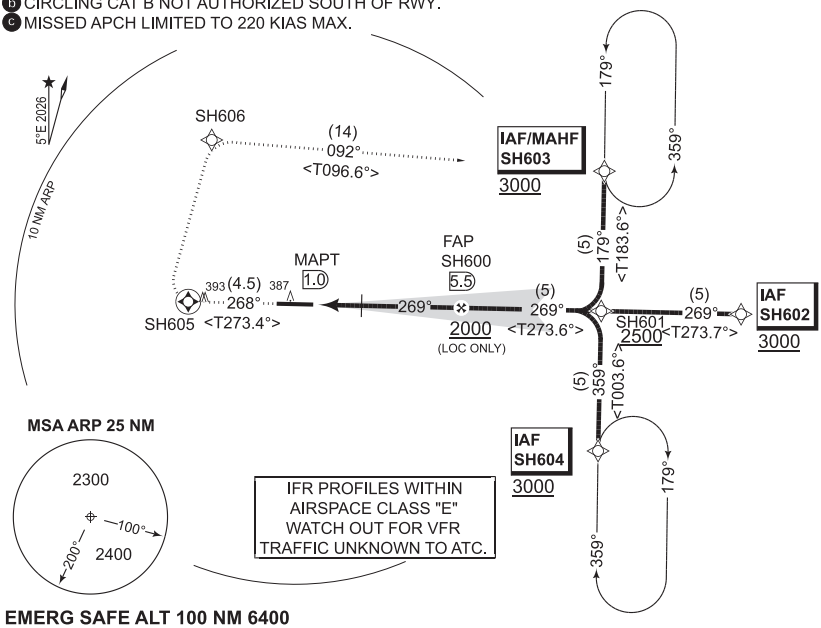
AD ELEV 265

ILS or LOC RWY 27
HOLZDORF (ETSH)

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

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

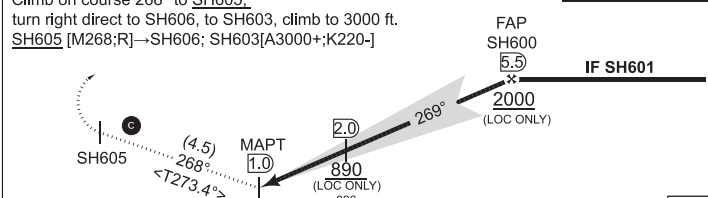


EMERG SAFE ALT 100 NM 6400

MISSED APPROACH c
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



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)	
c CIRCLING	**760** - 2.3 495 (500-2.3)		**NOT AUTHORIZED**	

MIPS

CHANGE: MSA (040/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 265

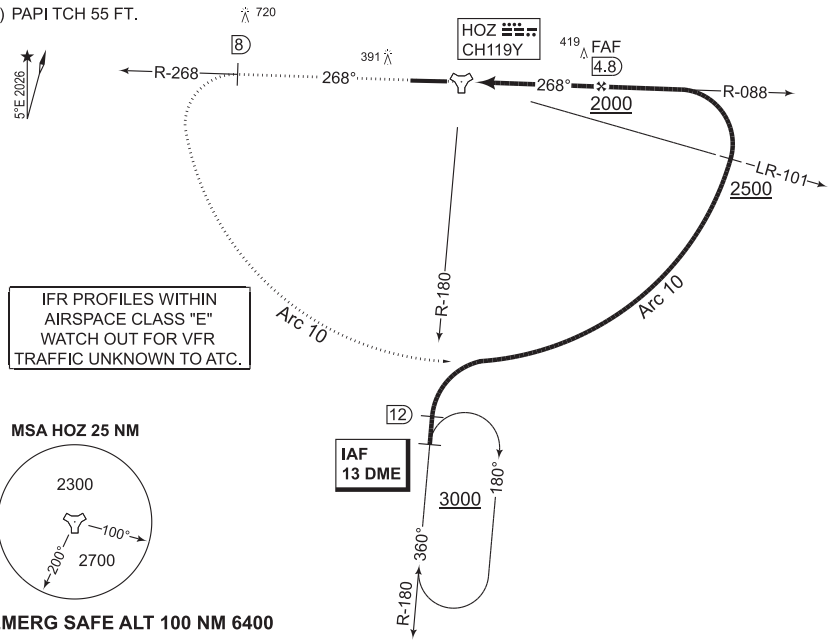
TACAN RWY 27
HOLZDORF (ETSH)

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	268°	2000	5.2%	**650**	263	900 m	7938

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

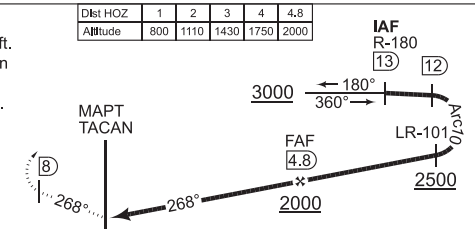
IAF
51°33.08'N
013°10.00'E



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

TA 5000



CATEGORY	A	B	C	D
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**	

MIPS

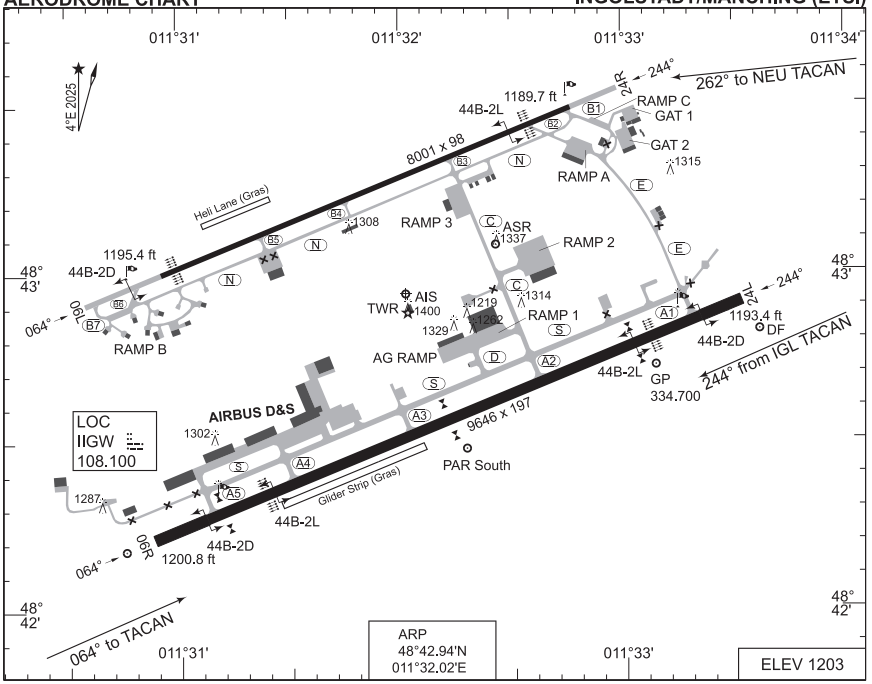
CHANGE: PAR MINIMA DELETED (188/26)

ACC 01 OCT 2026

TACAN RWY 27

51°46.07'N
013°10.06'E

HOLZDORF (ETSH)



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

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

CHANGE: EDITORIAL (184/25)

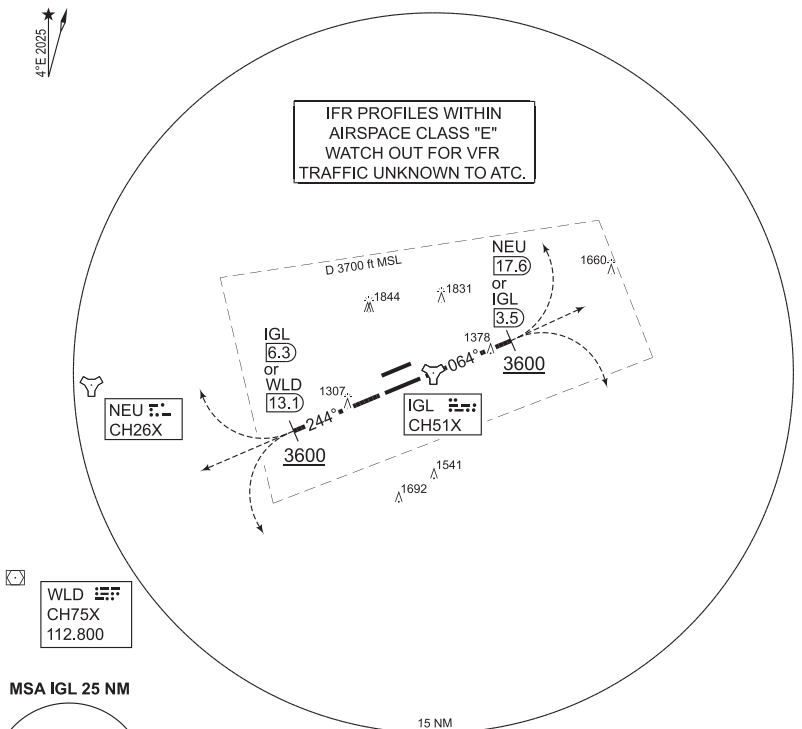
ACC 19 FEB 2026

INGO TOWER	INGO RADAR	MUENCHEN RADAR
376.800 125.255	282.000 120.605 125.580	242.200 VHF O/R

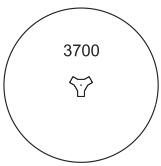
INGO ATIS
118.865

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).



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

CHANGE: EDITORIAL (079/26)

ACC 16 APR 2026

INSTRUMENT DEPARTURE CHART

AD ELEV 1203

INGOLSTADT/MANCHING (ETSI)

INGO TOWER	INGO RADAR	MUENCHEN RADAR
376.800 125.255	282.000 120.605 125.580	242.200 VHF O/R

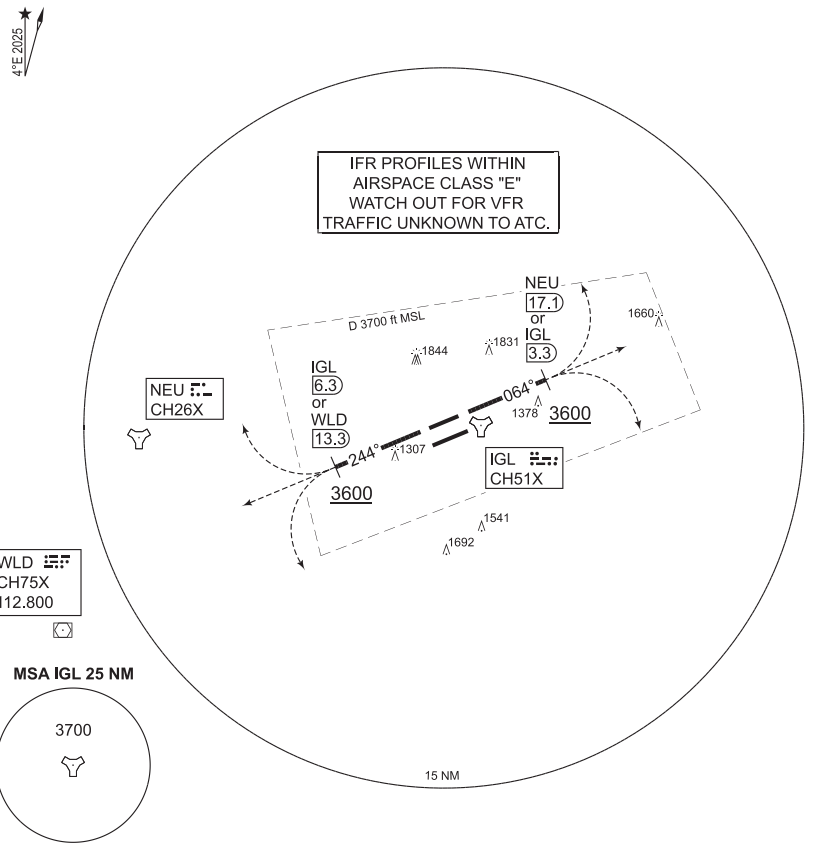
INGO ATIS
118.865

RWY	from - to	60	120	180	240	300	Reason
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).



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

CHANGE: EDITORIAL (079/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART AD ELEV 1203

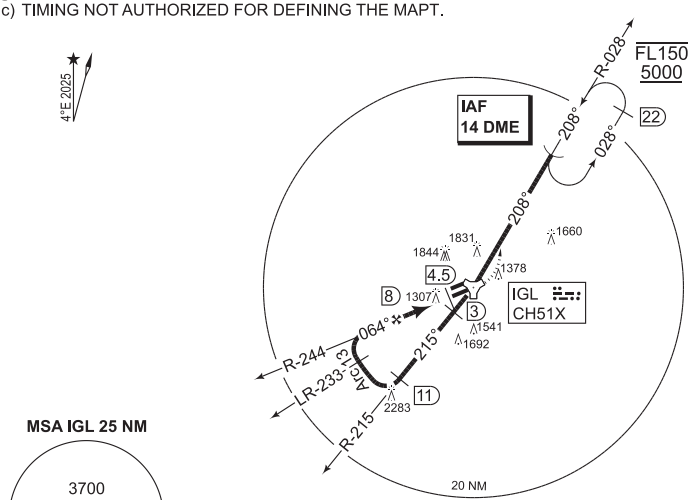
TACAN RWY 06R
INGOLSTADT/MANCHING (ETSI)

MUENCHEN RADAR	INGO RADAR			INGO TOWER		INGO ATIS
242.200	282.000	120.605	125.580	376.800	125.255	118.865

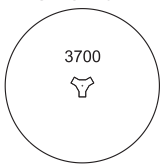
TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
IGL CH51X	064°	3000	5.2%	**See CAT**	1201	855 M	9646

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



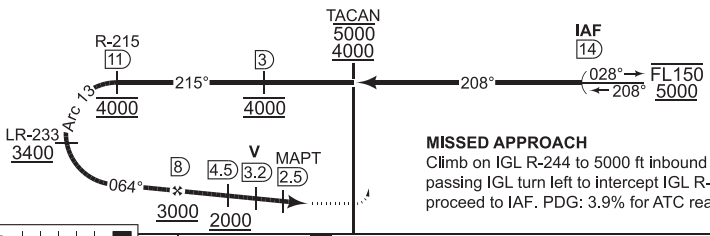
MSA IGL 25 NM



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

EMERG SAFE ALT 100 NM 13500

TA 5000



MISSED APPROACH
Climb on IGL R-244 to 5000 ft inbound IGL. When passing IGL turn left to intercept IGL R-028 and proceed to IAF. PDG: 3.9% for ATC reason.

CAT I

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**

MIPS

CHANGE: EDITORIAL (184/25)

ACC 19 FEB 2026

TACAN RWY 06R 48°42.94'N 011°32.02'E **INGOLSTADT/MANCHING (ETSI)**

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1203

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

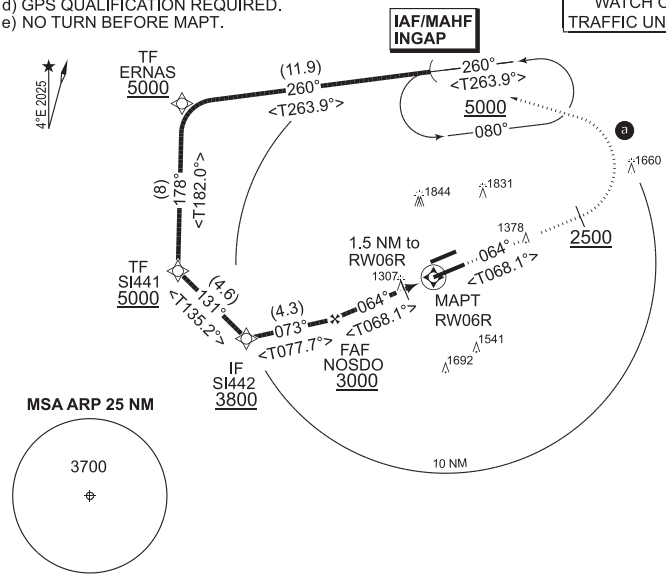
MUENCHEN RADAR	INGO RADAR	INGO TOWER	INGO ATIS
242.200	282.000 120.605 125.580	376.800 125.255	118.865

APP COURSE	FAF ALT	GS	MDA	TDZE	ALS-LENGTH	LDA
064°	3000	3.2°	**See CAT**	1201	855 M	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.

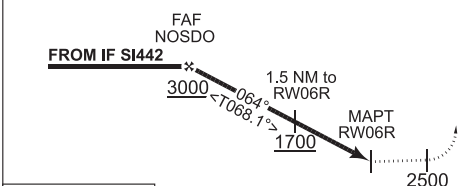


EMERG SAFE ALT 100 NM 13500

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. Climb to 5000 ft and enter holding. [M064, A2500+; L] - INGAP [A5000+]



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)
MIPS 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)	

CHANGE: EDITORIAL (184/25)

ACC 19 FEB 2026

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

CHANGE: EDITORIAL (184/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1203

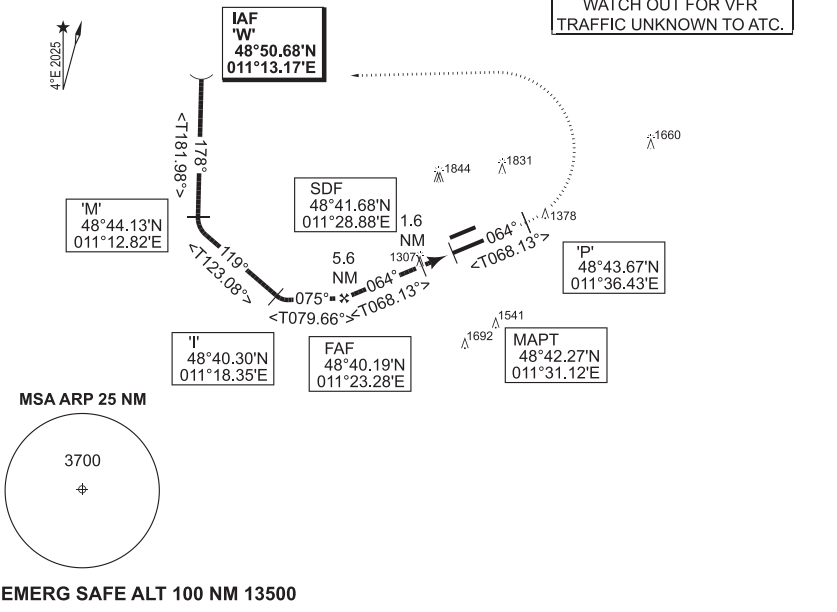
IAA RWY 06R
INGOLSTADT/MANCHING (ETSI)

MUENCHEN RADAR	INGO RADAR			INGO TOWER		INGO ATIS
242.200	282.000	120.605	125.580	376.800	125.255	118.865

APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
064°	3000	5.2%	**1650**	1201	855 M	9646

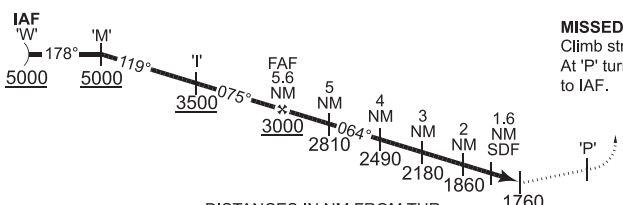
NOTE:
a) DISREGARD PAPI.
b CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.
c CIRCLING CAT B SPEED LIMITED TO 130 KIAS.

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



EMERG SAFE ALT 100 NM 13500

TA 5000



MISSED APPROACH
Climb straight ahead to 5000 ft.
At 'P' turn left and proceed direct to IAF.

DISTANCES IN NM FROM THR

TCH 50

CAT I

TDZE 1201

CATEGORY	A	B	C	D	E
IAA 06R	**1650** - 1.4 449 (500-1.4/1.5)		**1650** - 1.4 449 (500-1.4/2.1)		
MIPS 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)	

CHANGE: EDITORIAL (184/25)

ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1203

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

MUENCHEN RADAR	INGO RADAR	INGO TOWER	INGO ATIS
242.200	282.000 120.605 125.580	376.800 125.255	118.865

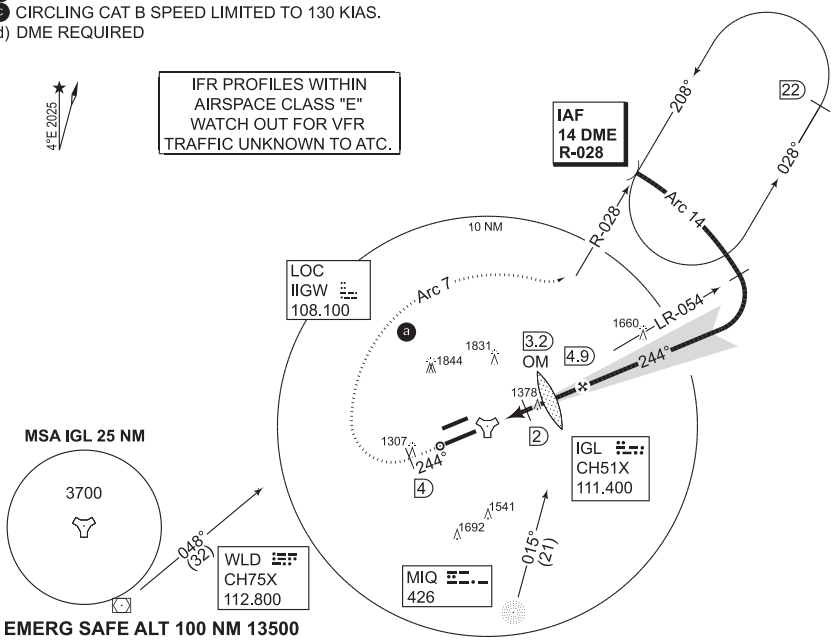
TACAN/LOCALIZER	APP COURSE	GS INTCP ALT	GS	DA	TDZE	ALS-LENGTH	LDA
IGL CH51X/IIGW 108.100	244°	3000	3.0° / 5.2%	**See CAT**	1197	900 M	9646

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

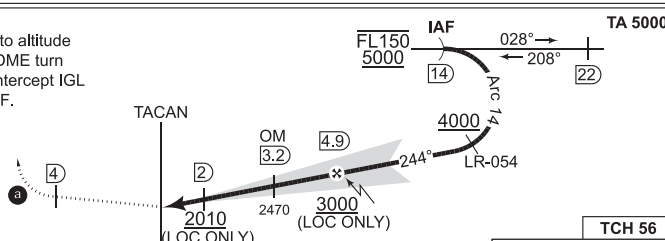
4°E 2025

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



EMERG SAFE ALT 100 NM 13500

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.



CATEGORY	A	B	C	D	E
MPS ILS 24L	**1397** - 0.8 550 200 (200-0.8/1.2)				**1443** - 0.8 550 246 (300-0.8/1.3)
MPS LOC 24L	**1550** - 0.9 353 (400-0.9/1.5)		**1550** - 0.9 353 (400-0.9/1.6)		
MPS (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)	

CHANGE: CHART NAME (104/26)

ACC 11 JUN 2026

ILS or LOC RWY 24L

48°42.94'N
011°32.02'E

INGOLSTADT/MANCHING (ETSI)

PANS-OPS
INSTRUMENT APPROACH CHART AD ELEV 1203

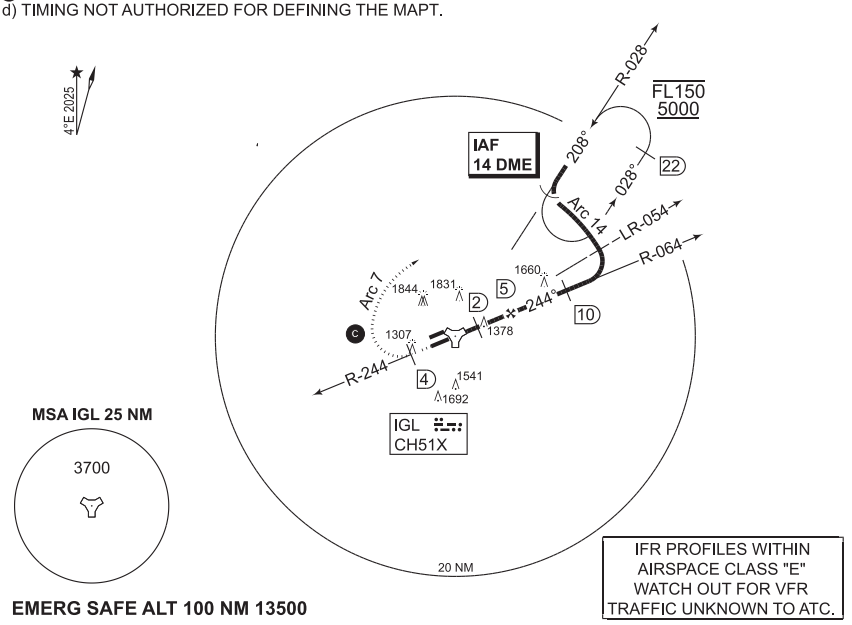
TACAN RWY 24L
INGOLSTADT/MANCHING (ETSI)

MUENCHEN RADAR	INGO RADAR	INGO TOWER	INGO ATIS
242.200	282.000 120.605 125.580	376.800 125.255	118.865

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
IGL CH51X	244°	3000	5.2%	**1570**	1197	900 M	9646

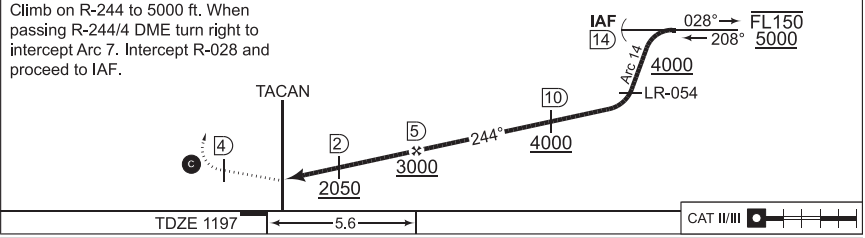
NOTE:
- (a) CIRCLING NOT AUTHORIZED NORTH OF RWY 06L/24R.
- (b) CAT B: CIRCLING SPEED LIMITED TO 130 KIAS MAX.
- (c) MISSED APCH TURN 230 KIAS MAX.
- d) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.

IAF
48°54.94'N
011°45.43'E



MISSED APPROACH **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)		
MIPS	(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)	
MIPS	PAR 24L	**1394** - 0.8/550 200 (200-0.8/1.2)				**NOT AUTHORIZED**

CHANGE: EDITORIAL (184/25)

ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

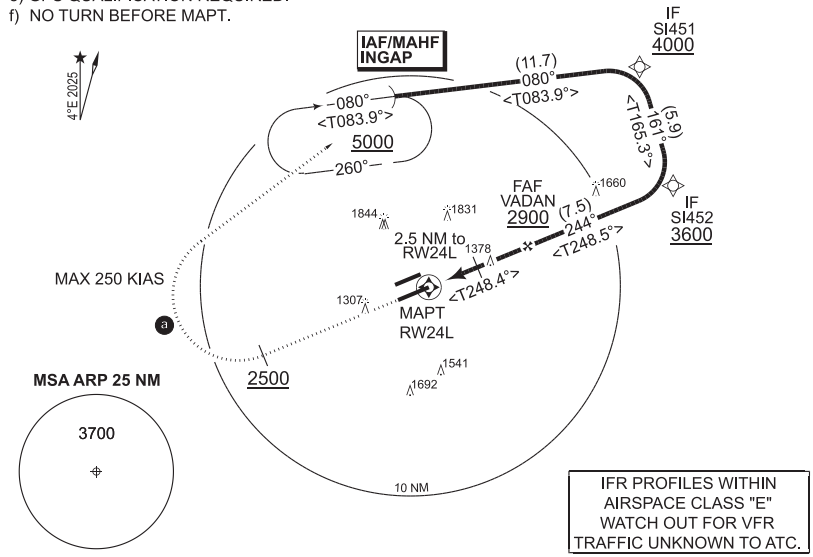
AD ELEV 1203

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

MUENCHEN RADAR	INGO RADAR	INGO TOWER	INGO ATIS
242.200	282.000 120.605 125.580	376.800 125.255	118.865

APP COURSE	FAF ALT	GS	MDA	TDZE	ALS-LENGTH	LDA
244°	2900	3.1°	**See CAT**	1197	900 M	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.

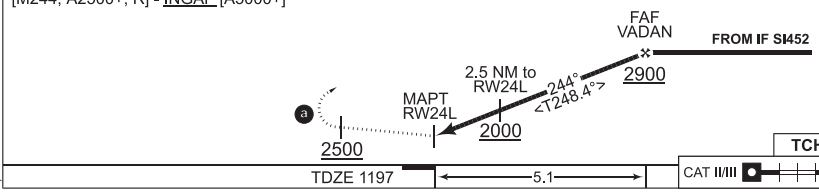


EMERG SAFE ALT 100 NM 13500

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)	

MIPS

CHANGE: EDITORIAL (184/25)

ACC 19 FEB 2026

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

CHANGE: EDITORIAL (130/26)
ACC 11 JUN 2026

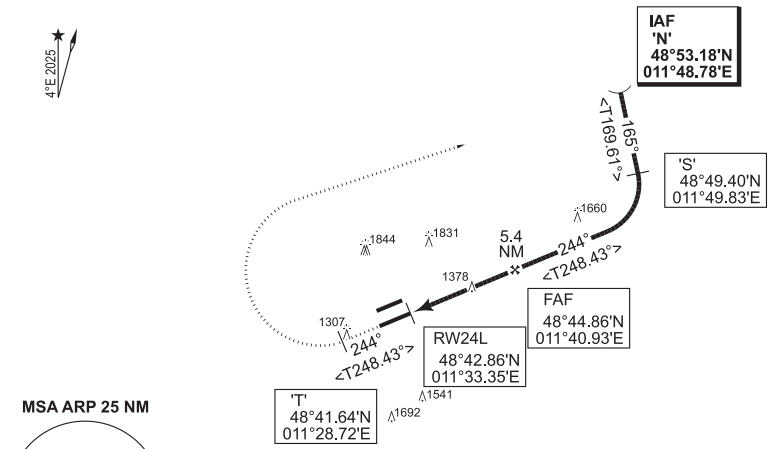
PANS-OPS
INSTRUMENT APPROACH CHART AD ELEV 1203

IAA RWY 24L
INGOLSTADT/MANCHING (ETSI)

MUENCHEN RADAR	INGO RADAR	INGO TOWER	INGO ATIS
242.200	282.000 120.605 125.580	376.800 125.255	118.865

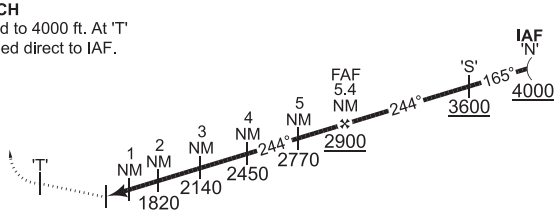
APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
244°	2900	5.2%	**1650**	1197	900 M	9646

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

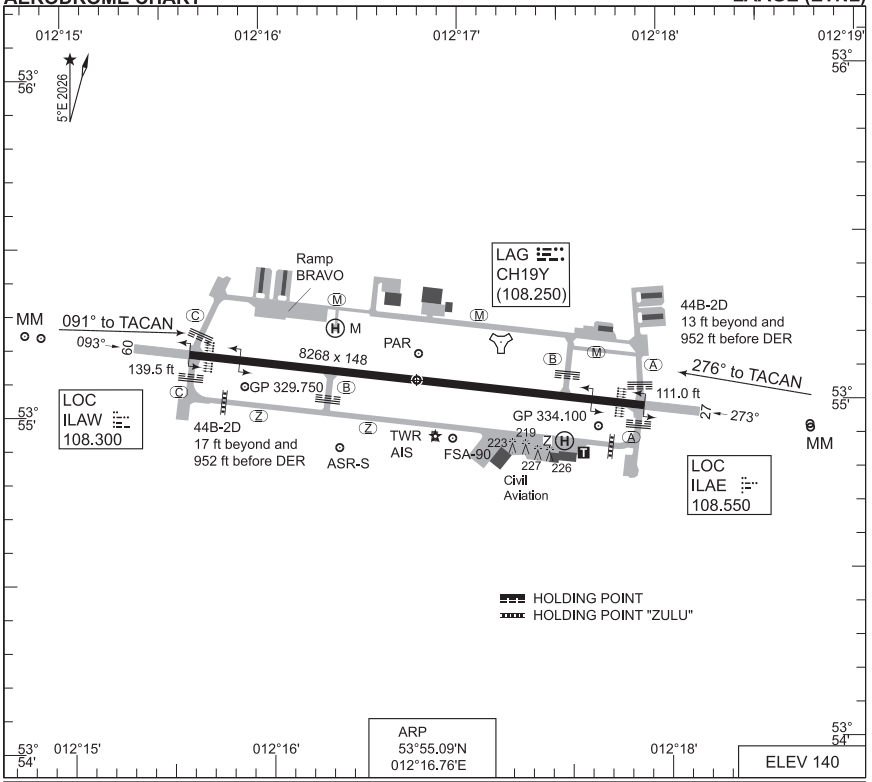
MISSED APPROACH **TA 5000**
Climb straight ahead to 4000 ft. At 'T'
turn right and proceed direct to IAF.



TCH 50
TDZE 1197
CAT II/III

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)		
MIPS 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)	

CHANGE: EDITORIAL (184/25)
ACC 19 FEB 2026



RWY	PCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
09	88 R/B/W/T	8268 (8924*)	9266	10283 (10938*)	8268	3.0°		140	53°55.18'N 012°15.62'E
27	88 R/B/W/T	8268 (8924*)	9269	9909 (10564*)	8268	3.0°		134	53°54.99'N 012°17.90'E

*SWY available for TKOF on request via backtrack (PCN 66)

LAAGE TOWER	336.400	118.430	
LAAGE RADAR	376.400	133.105	SSR 4210 - 4217
LAAGE ATIS	134.605		

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

CHANGE: VAR (042/26)

ACC 16 APR 2026

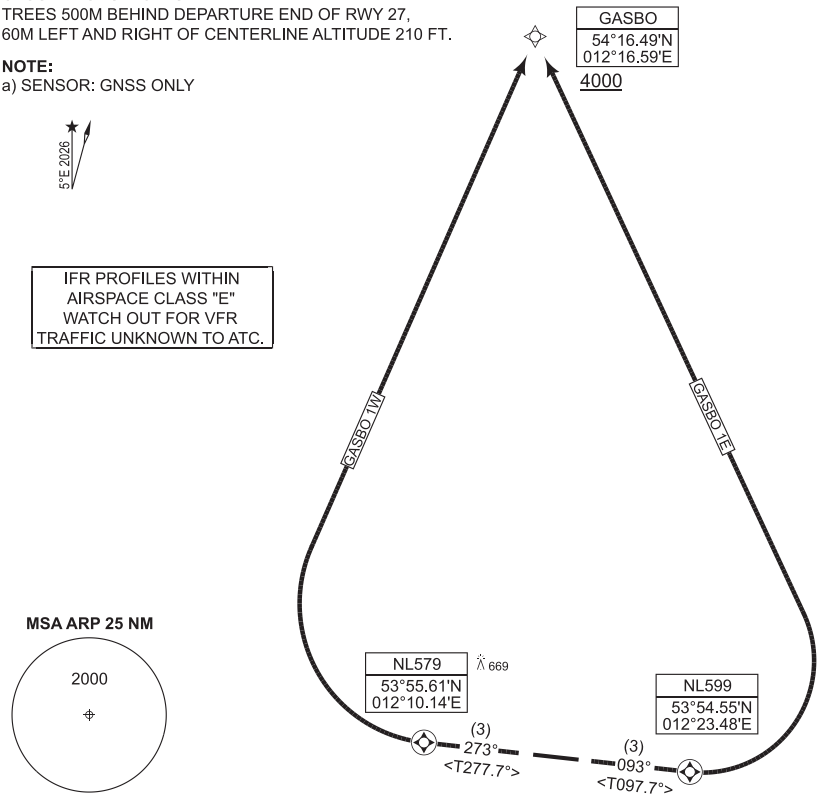
LAAGE TOWER	LAAGE RADAR	BREMEN RADAR	LAAGE ATIS
336.400 118.430 122.100	376.400 133.105	259.825 124.175	134.605

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

NOTE:
a) SENSOR: GNSS ONLY

5°E 2026

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

CHANGE: VAR (042/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 140

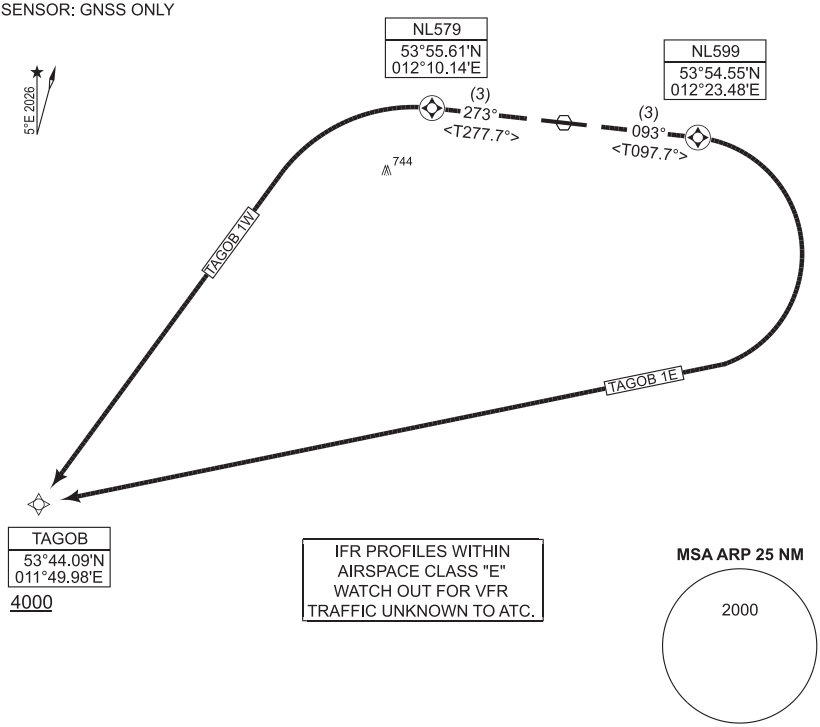
TAGOB 1E - 1W
LAAGE (ETNL)

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

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

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



TA 5000

EMERG SAFE ALT 100 NM 2500

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

CHANGE: VAR (042/26)

ACC 16 APR 2026

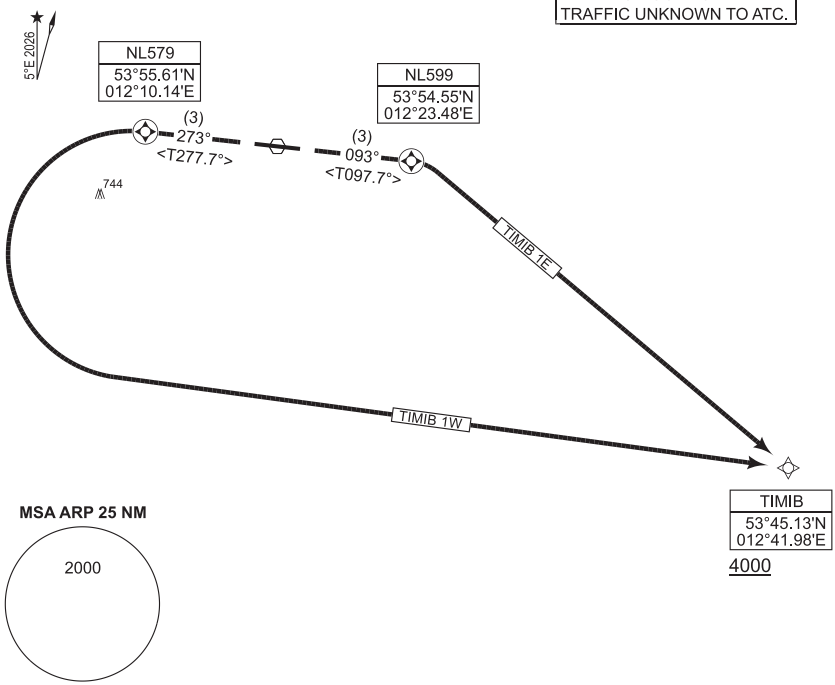
LAAGE TOWER	LAAGE RADAR	BREMEN RADAR	LAAGE ATIS
336.400 118.430 122.100	376.400 133.105	259.825 124.175	134.605

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

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

CHANGE: VAR (042/26)

ACC 16 APR 2026

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

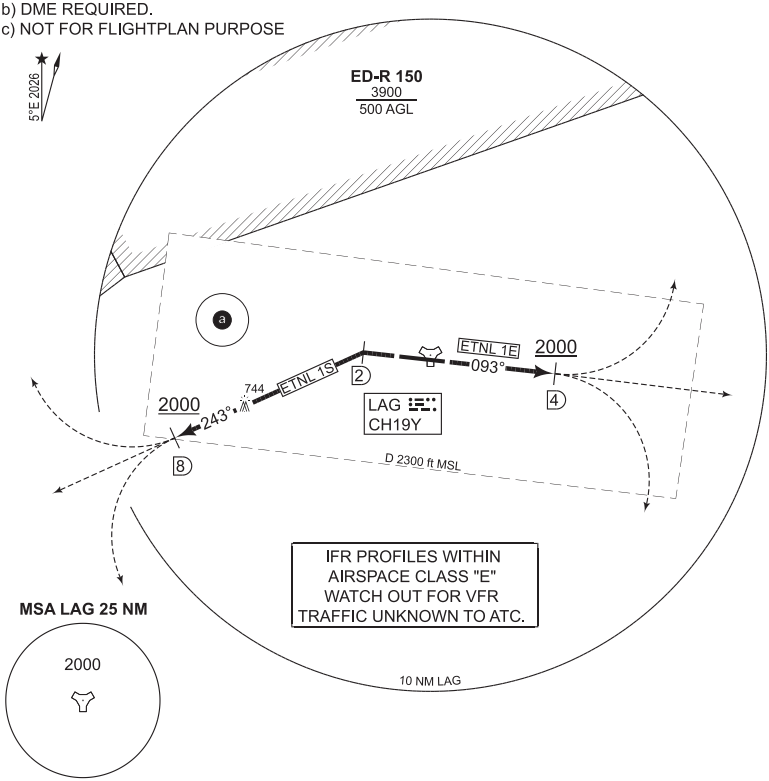
CHANGE: EDITORIAL (042/26)
ACC 16 APR 2026

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
27	DER - 2000	469	938	1407	1876	2345	2814	ATC

CAUTION:
CLOSE IN OBSTACLES:
RWY 27: TREES 450M WEST OF DER 211 FT.

NOTE:
ⓐ 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

CHANGE: REVISED CHART (150/26)

ACC 06 AUG 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 140

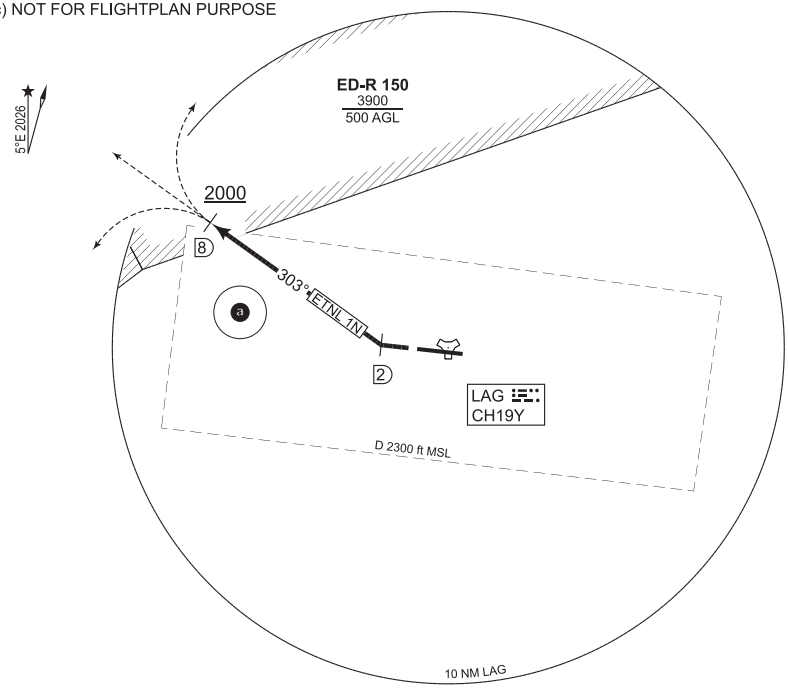
ETNL 1N
LAAGE (ETNL)

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

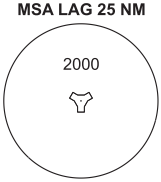
RWY	from-to	60	120	180	240	300	360	Reason
27	DER - 2000	469	938	1407	1876	2345	2814	ATC

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



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

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

CHANGE: REVISED CHART (150/26)

ACC 06 AUG 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 140

ILS or LOC Y RWY 09
LAAGE (ETNL)

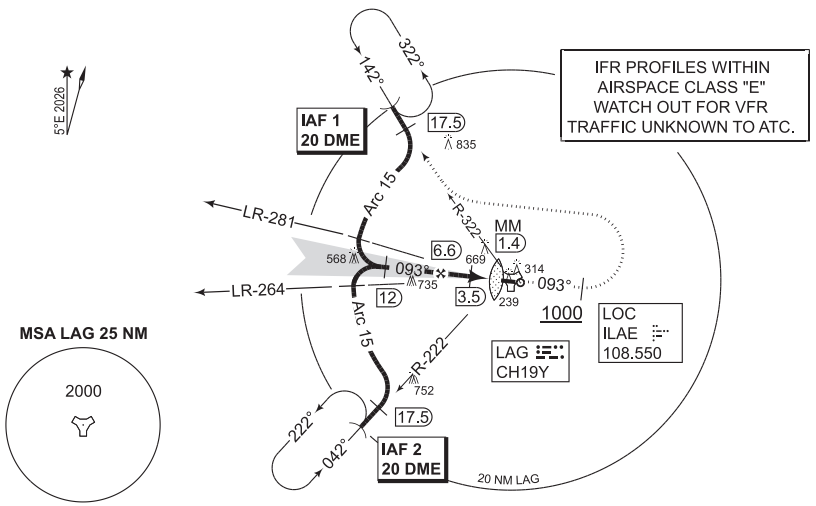
BREMEN RADAR	LAAGE RADAR	LAAGE TOWER	LAAGE ATIS
259.825 124.175	376.400 133.105	336.400 118.430	134.605

TACAN/LOCALIZER	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS-LENGTH	LDA
LAG CH19Y/ILAE 108.550	093°	2000	3.0°	**340**	140	900 m	8268

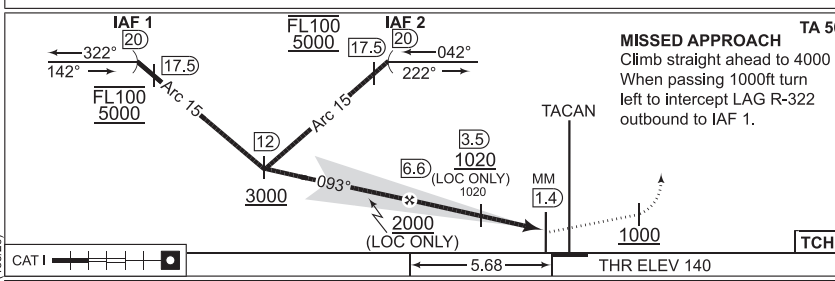
NOTE:
a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
b) FOR MILITARY USE ONLY.
c) TACAN REQUIRED.
e) PAPI AND ILS GLIDEPATH DO NOT COINCIDE.
(f) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
(g) HPMA

IAF 1
54°11.91'N
011°58.64'E

IAF 2
53°41.53'N
011°52.58'E



EMERG SAFE ALT 100 NM 2500



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 (g) (1000-4.3)

MIPS

CHANGE: IAF HEIGHT, MM (185/26)

ACC 01 OCT 2026

PANS-OPS
INSTRUMENT APPROACH CHART AD ELEV 140

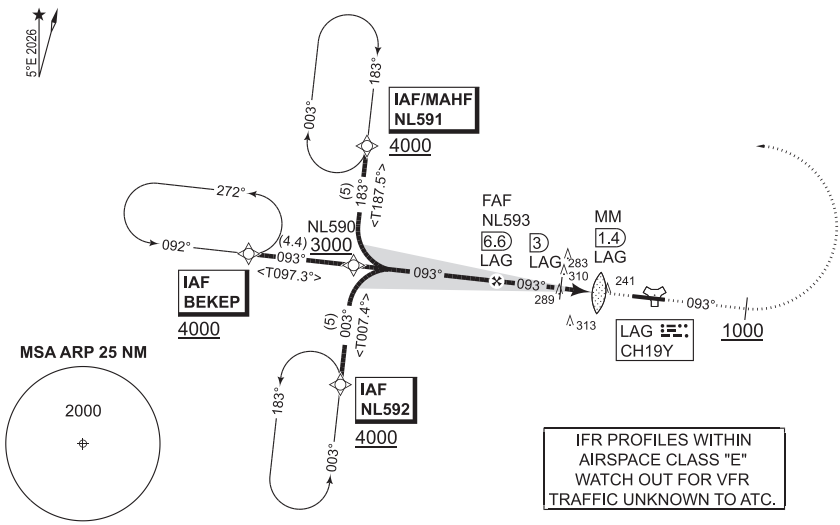
ILS or LOC Z RWY 09
LAAGE (ETNL)

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

TACAN / LOCALIZER	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS-LENGTH	LDA
LAG CH 19Y /108.550	093°	2000	3.0°	See CAT	140	900 M	8268

NOTE:

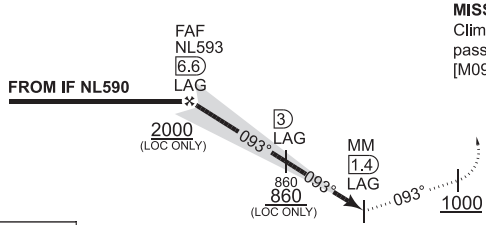
a) NAVIGATION SENSOR: GNSS ONLY.
b) NAVIGATION SPECIFICATION: RNAV 1 UNTIL NL590.
c) PAPI AND ILS GLIDEPATH DO NOT COINCIDE.
d) DME REQUIRED.
e CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
f HPMA



EMERG SAFE ALT 100 NM 3500

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]



Dist THR	5.7	5	4	3	2	1
Altitude	2000	1780	1460	1140	830	510

TCH 50

CAT I — 5.7 — THR ELEV 140

CATEGORY	A	B	C	D	E
ILS Z 09	**340** - 0.8/550 200 (200-0.8/1.2)				**NOT AUTHORIZED**
LOC Z 09	**490** - 0.9 350 (400-0.9/1.5)		**490** - 0.9 350 (400-0.9/1.6)		**NOT AUTHORIZED**
e 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 f (1000-4.3)

MIPS

CHANGE: REVISED CHART (190/26)

ACC 01 OCT 2026

PANS-OPS
INSTRUMENT APPROACH CHART AD ELEV 140

RNP RWY 09
LAAGE (ETNL)

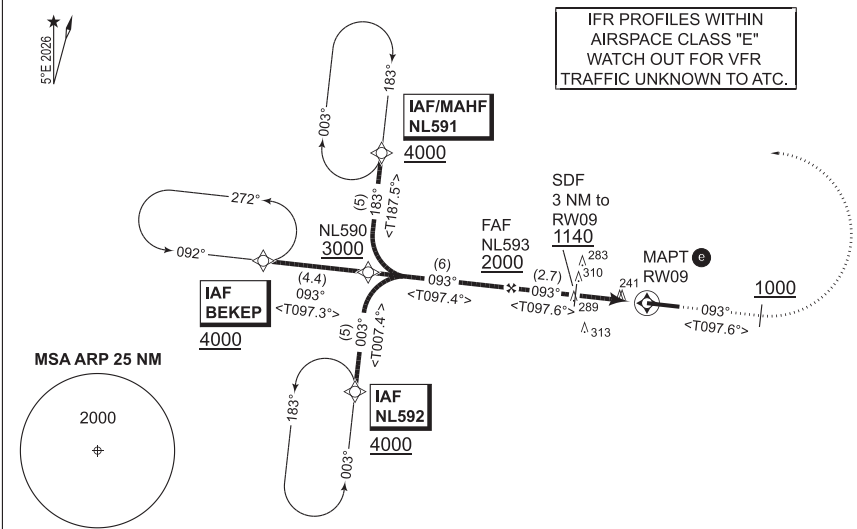
BREMEN RADAR	LAAGE RADAR	LAAGE TOWER		LAAGE ATIS
259.825 124.175	376.400 133.105	336.400	118.430	134.605

APP COURSE	FAF ALT	DESCENT GR	DA/MDA	THR ELEV	ALS-LENGTH	LDA
093°	2000	3.0° / 5.2%	**see CAT**	140	900 M	8268

NOTE:

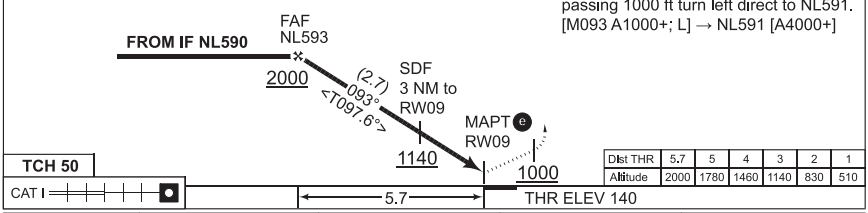
EGNOS CHANNEL
92735 E09A

a) NAVIGATION SENSOR: GNSS ONLY.
b) NAVIGATION SPECIFICATION: RNAV 1 UNTIL NL590, 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.



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+]



CATEGORY	A	B	C	D
LNAV	**510** - 0.9 370 (400-0.9/1.5)		**510** - 0.9 370 (400-0.9/1.6)	
e 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)
d CIRCLING	**550** - 1.9 410 (500-1.9)	**640** - 2.3 500 (500-2.3)	**1180** - 4.9 1040 (1100-4.9)	

MIPS

CHANGE: VAR (04/26)

ACC 16 APR 2026

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

CHANGE: EDITORIAL (042/26)
ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART AD ELEV 140

TACAN RWY 09
LAAGE (ETNL)

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

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
LAG CH19Y	091°	1800	5.2%	**490**	140	900 m	8268

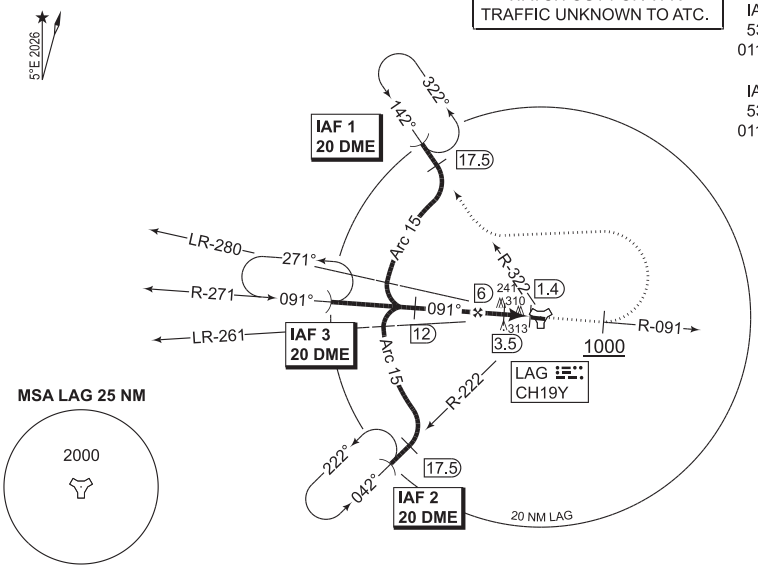
NOTE:
a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
b CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
c HPMA

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

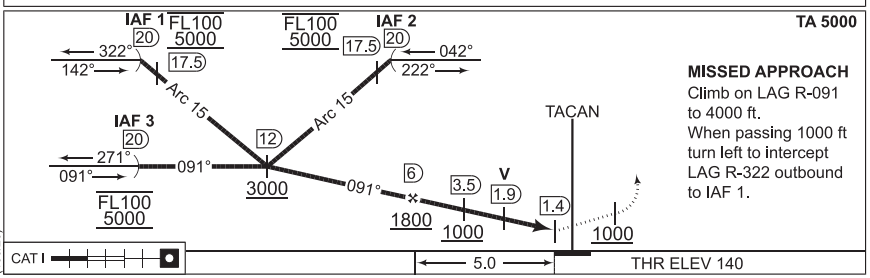
IAF 1
54°11.91'N
011°58.64'E

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



TA 5000

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.

CATEGORY	A	B	C	D	E
TACAN 09	**490** - 0.9 350 (400-0.9/1.5)		**490** - 0.9 350 (400 - 0.9/1.6)		**NOT AUTHORIZED**
MIPS 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 c (1000-4.3)
PAR 09	**340** - 0.8/550 200 (200-0.8/1.2)				

CHANGE: REVISED CHART (150/26)

ACC 06 AUG 2026

TACAN RWY 09

53°55.09'N
012°16.76'E

LAAGE (ETNL)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 140

ILS or LOC Y RWY 27
LAAGE (ETNL)

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

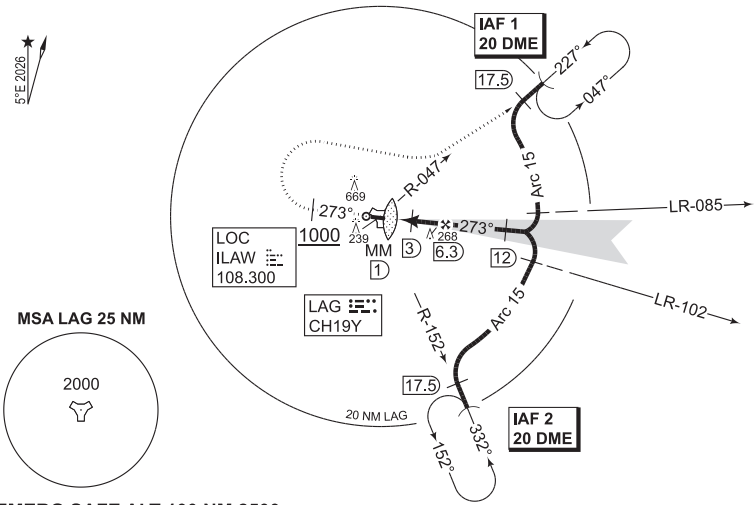
TACAN/LOCALIZER	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS-LENGTH	LDA
LAG CH19Y/ILAW 108.300	273°	2000	3.0° / 5.2%	**335**	111	900 m	8268

NOTE:
a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
b) NON STANDARD PROCEDURE
c) FOR MILITARY USE ONLY.
d) PAPI AND ILS GLIDEPATH DO NOT COINCIDE.
e) TACAN REQUIRED.
f CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
g HPMA

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

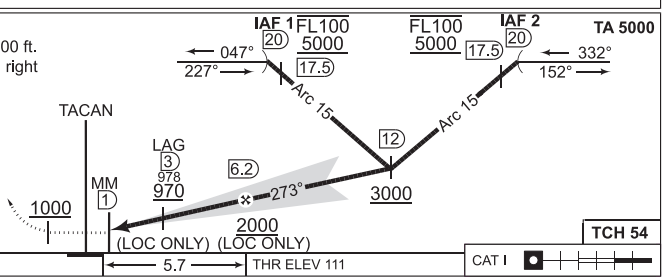
IAF 1
54°07.43'N
012°43.97'E

IAF 2
53°36.80'N
012°30.31'E



EMERG SAFE ALT 100 NM 2500

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**
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 g (1000-4.3)

MIPS

CHANGE: STEPDOWN ALTITUDE (190/26)

ACC 01 OCT 2026

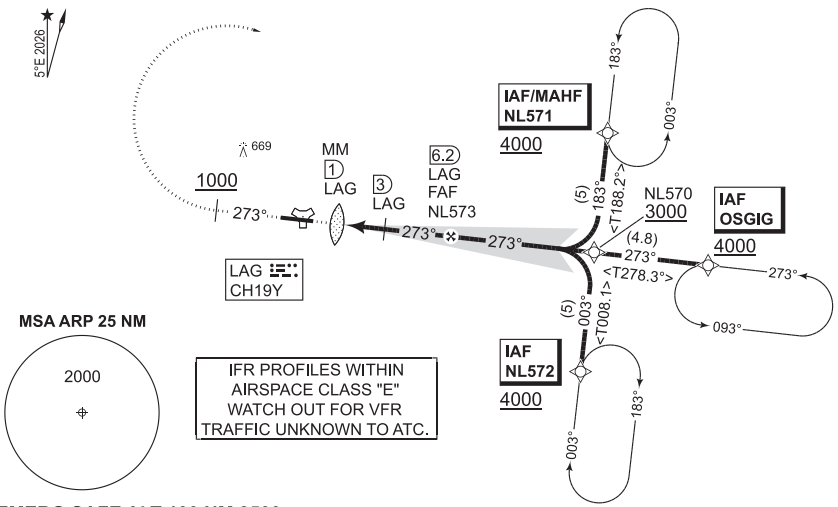
PANS-OPS
INSTRUMENT APPROACH CHART AD ELEV 140

ILS or LOC Z RWY 27
LAAGE (ETNL)

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

TACAN / LOCALIZER	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS-LENGTH	LDA
LAG CH 19Y /108.300	273°	2000	3.0°	**See CAT**	111	900 M	8268

NOTE:
a) NAVIGATION SENSOR: GNSS ONLY.
b) NAVIGATION SPECIFICATION: RNAV 1 UNTIL NL570.
c) PAPI AND ILS GLIDEPATH DO NOT COINCIDE.
d) DME REQUIRED.
(e) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
(f) HPMA

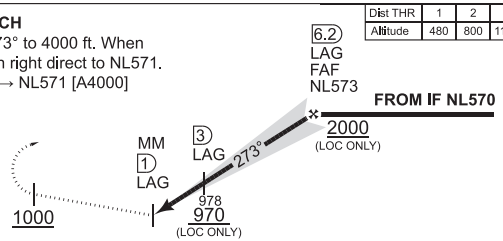


EMERG SAFE ALT 100 NM 3500

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



CATEGORY	A	B	C	D	E
ILS Z 27	**311** - 0.8/550 200 (200-0.8/1.2)				**NOT AUTHORIZED**
LOC Z 27	**420** - 0.8 309 (400-0.8/1.4)				**NOT AUTHORIZED**
(e) 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 (f) (1000-4.3)

MIPS

CHANGE: REVISED CHART (190/26)

ACC 01 OCT 2026

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

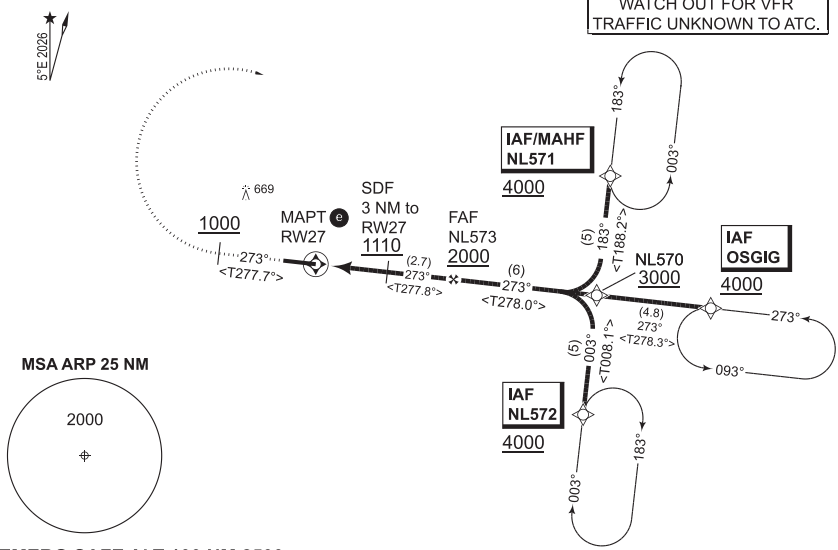
APP COURSE	FAF ALT	DESCENT GR	DA/MDA	THR ELEV	ALS-LENGTH	LDA
273°	2000	3.0° / 5.2%	**see CAT**	111	900 M	8268

NOTE:

EGNOS CHANNEL
87850 E27A

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.

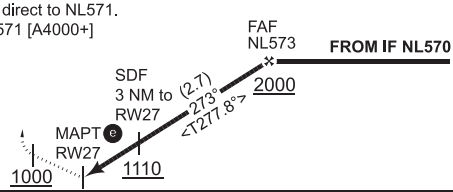
IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



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



CATEGORY	A	B	C	D
LNAV	**490** - 1.0 379 (400-1.0/1.5)		**490** - 1.0 379 (400-1.0/1.7)	
e LNAV/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)	

MIPS

CHANGE: VAR (04/26)

ACC 16 APR 2026

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

CHANGE: EDITORIAL (042/26)
ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART AD ELEV 140

TACAN RWY 27
LAAGE (ETNL)

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

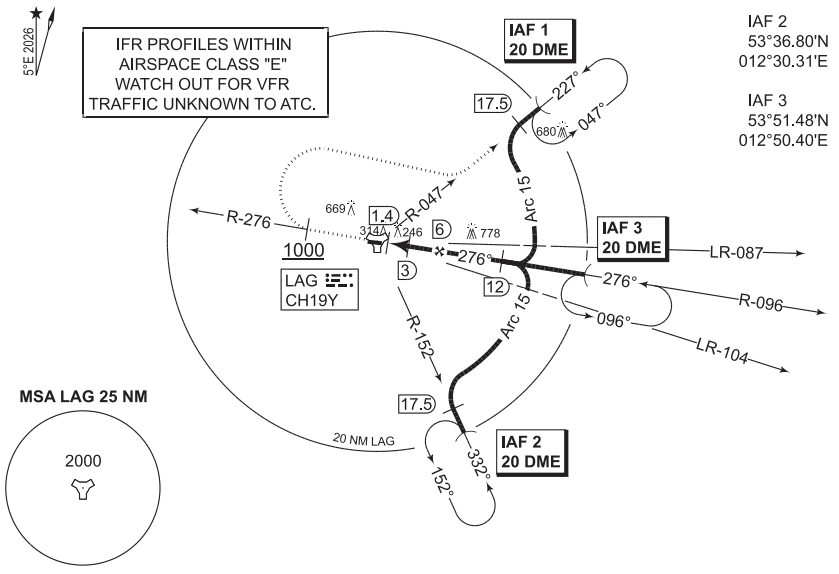
TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
LAG CH19Y	276°	1900	5.2%	**470**	111	900 m	8268

NOTE:
a) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
b CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
c HPMA

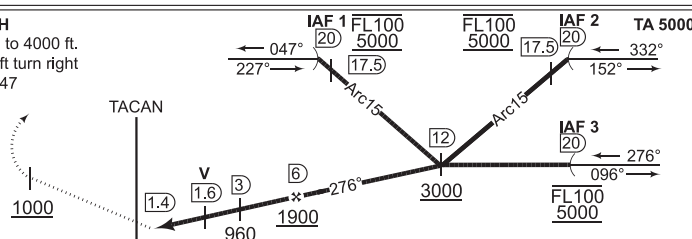
IAF 1
54°07.43'N
012°43.97'E

IAF 2
53°36.80'N
012°30.31'E

IAF 3
53°51.48'N
012°50.40'E



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.



CATEGORY	A	B	C	D	E
MPS TACAN 27	**470** - 0.9 359 (400 - 0.9/1.5)		**470** - 0.9 359 (400 - 0.9/1.6)		**NOT AUTHORIZED**
MPS 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 c (1000-4.3)
MPS PAR 27	**319** - 0.8/550 208 (300-0.8/1.2)				

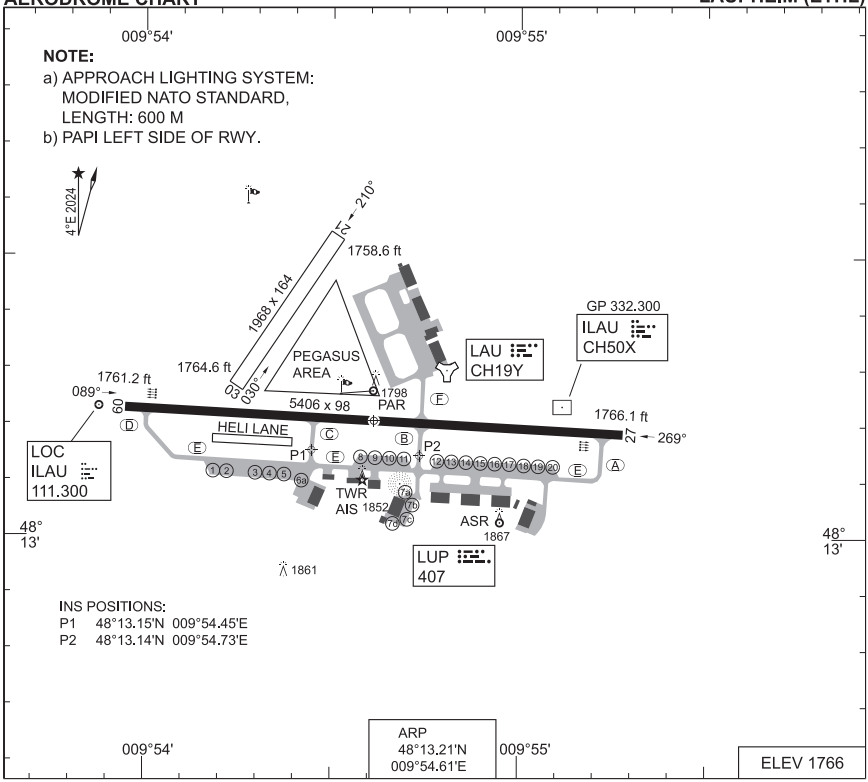
CHANGE: REVISED CHART (150/26)

ACC 06 AUG 2026

TACAN RWY 27

53°55.09'N
012°16.76'E

LAAGE (ETNL)



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)
	TERPS	095	3.0°			651	COPTER	TERPS	1866 - 0.8 100 (100-0.8)
SRA	PANS-OPS	09					AB CD	PANS-OPS	2170 - 1.2 409 (500-1.2/1.5) 2170 - 1.2 409 (500-1.2/1.9)
	PANS-OPS	27					AB CD	PANS-OPS	2230 - 1.5 464 (500-1.5) 2230 - 1.5 464 (500-1.5/2.2)

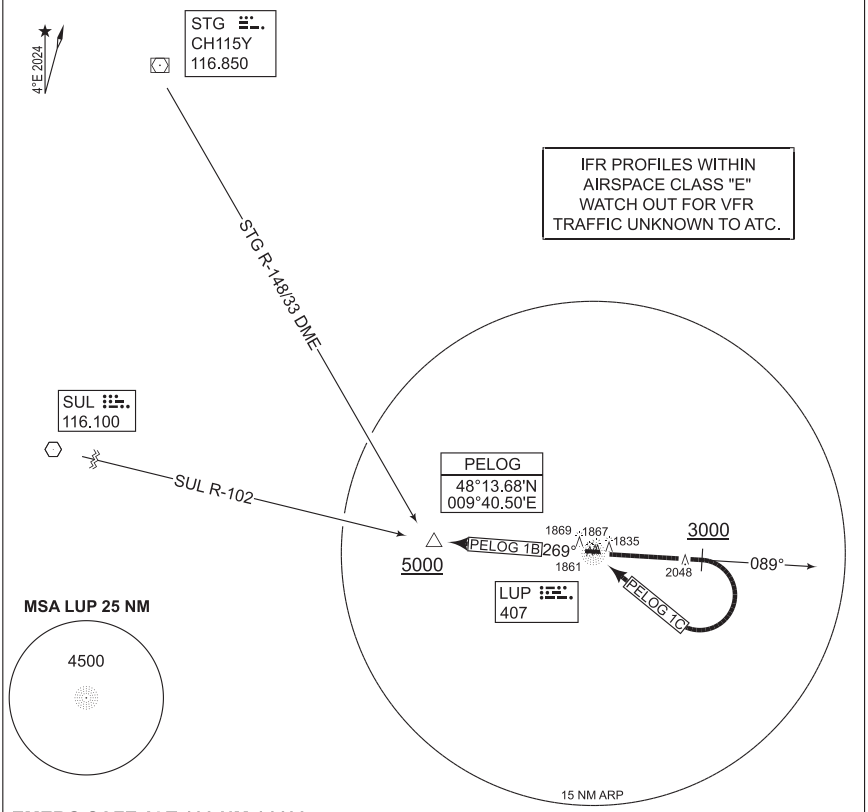
CHANGE: TACAN, ILS, DME (127/26)

ACC 11 JUN 2026

LIMA TOWER	LIMA RADAR	MUENCHEN RADAR
377.575 122.100	293.850 120.455	253.500 129.450

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.



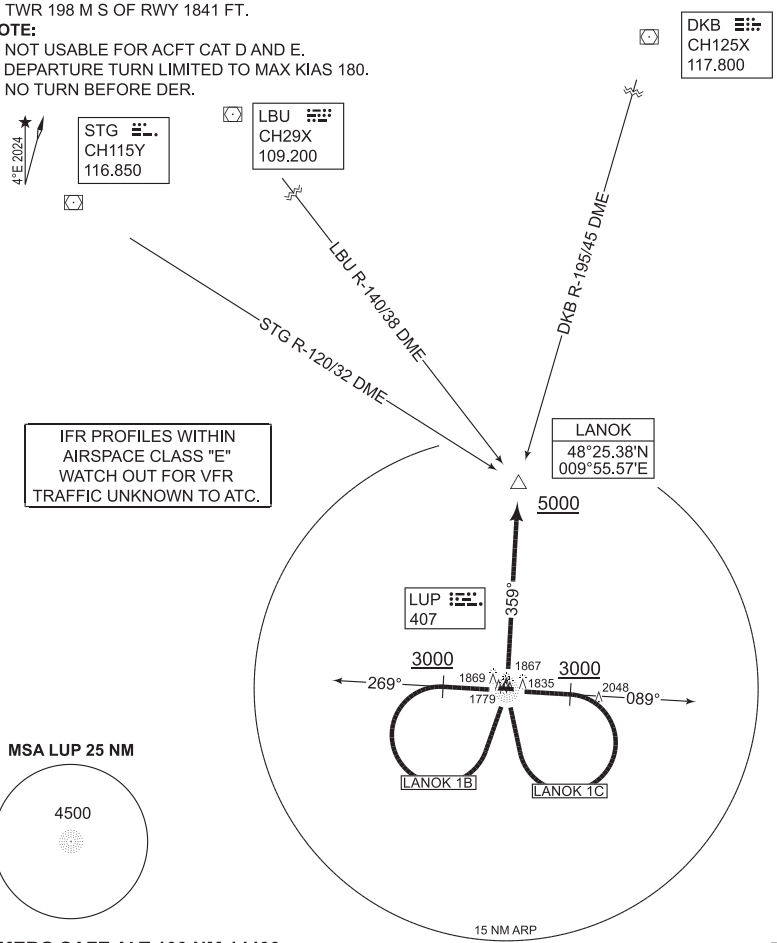
EMERG SAFE ALT 100 NM 14400 **TA 5000**

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

CHANGE: REVISED CHART (148/26)

LIMA TOWER	LIMA RADAR	MUENCHEN RADAR
377.575 122.100	293.850 120.455	253.500 129.450

CAUTION:
a) CLOSE IN OBSTACLE:
TWR 198 M S OF RWY 1841 FT.
NOTE:
b) NOT USABLE FOR ACFT CAT D AND E.
c) DEPARTURE TURN LIMITED TO MAX KIAS 180.
d) NO TURN BEFORE DER.



EMERG SAFE ALT 100 NM 14400 **TA 5000**

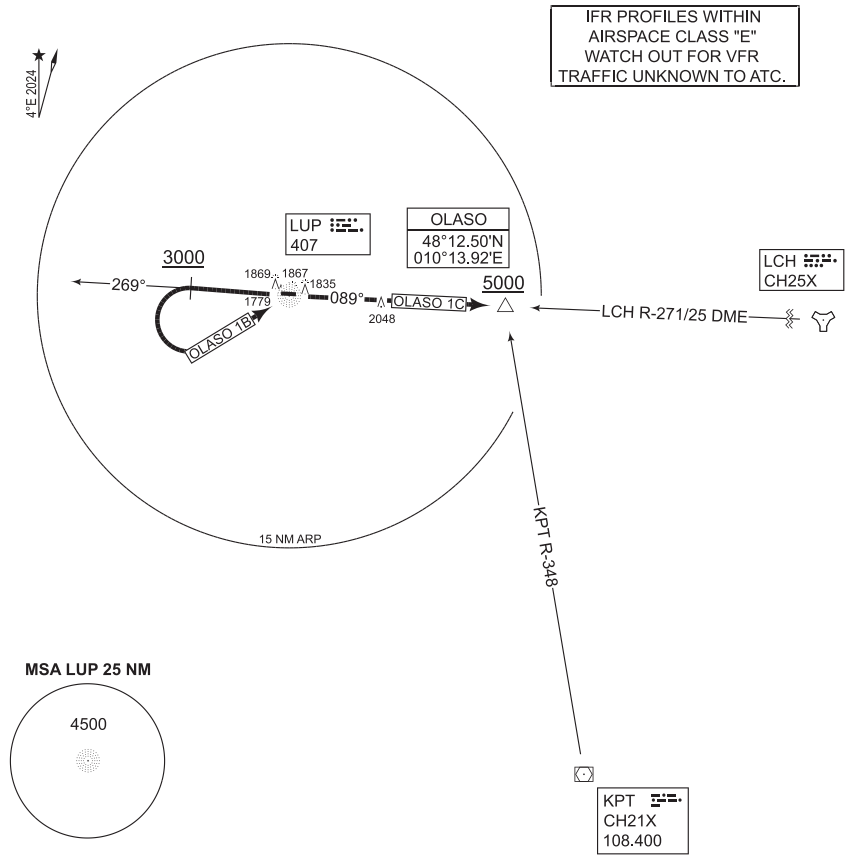
LANOK 1B (RWY 27)	- Climb on track 269° - When passing 3000 ft or above turn left inbound LUP NDB and continue climb to 5000 ft - When crossing LUP NDB intercept track 359°to cross LANOK (STG R-120) at 5000 ft or above
LANOK 1C (RWY 09)	- Climb on track 089° - When passing 3000 ft or above turn right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

CHANGE: REVISED CHART (148/26)
ACC 06 AUG 2026

LIMA TOWER	LIMA RADAR	MUENCHEN RADAR
377.575 122.100	293.850 120.455	253.500 129.450

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.



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

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 1766

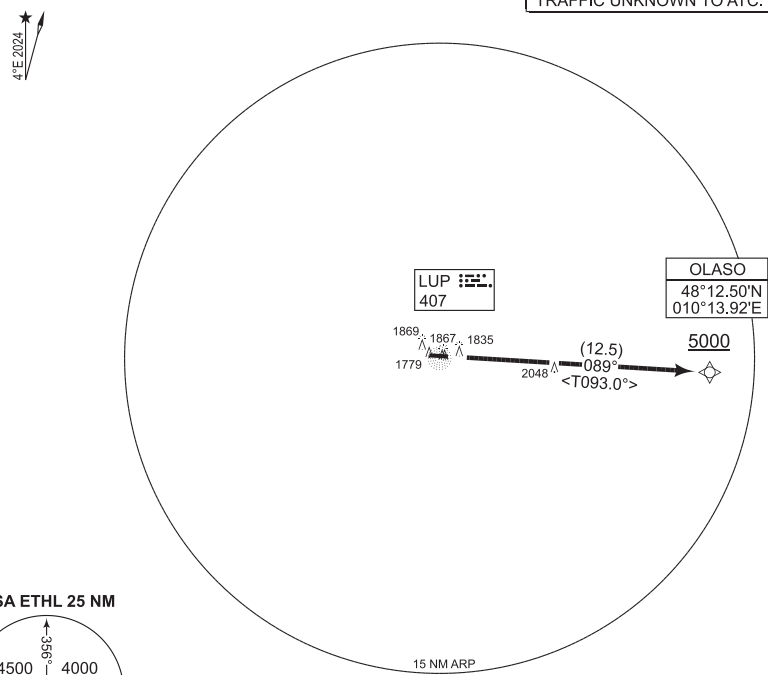
OLASO 1A
LAUPHEIM (ETHL)

LIMA TOWER	LIMA RADAR	MUENCHEN RADAR
377.575 122.100	293.850 120.455	253.500 129.450

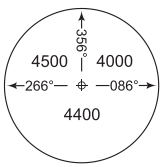
RWY	from - to	60	90	120	180	240	300	Reason
09	DER-5000 ft	258	387	516	774	1031	1289	ATC

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

PANS-OPS
INSTRUMENT DEPARTURE CHART

AD ELEV 1766

PELOG 1A
LAUPHEIM (ETHL)

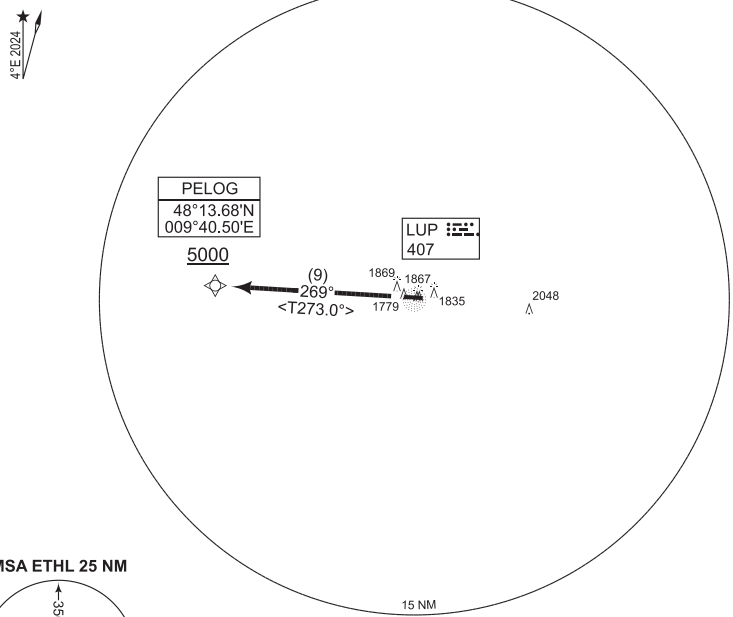
LIMA TOWER	LIMA RADAR	MUENCHEN RADAR
377.575 122.100	293.850 120.455	253.500 129.450

RWY	from - to	60	90	120	180	240	300	Reason
27	DER-5000 ft	358	537	716	1074	1432	1790	ATC

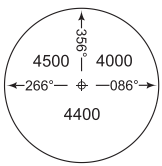
CAUTION:
a) CLOSE IN OBSTACLE TRAFFIC LIGHT
143 M SOUTH OF DER ALTITUDE 1779 FT.

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 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1766

RNP RWY 09
LAUPHEIM (ETHL)

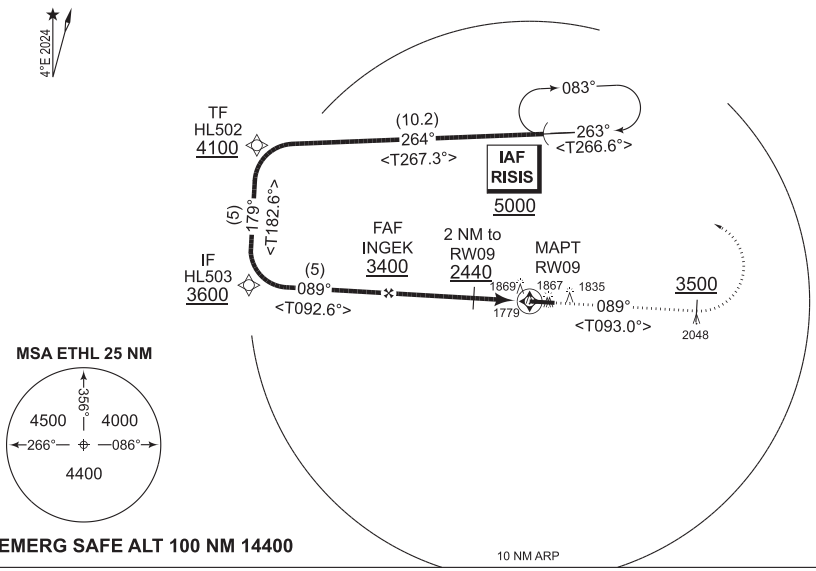
MUENCHEN RADAR	LIMA RADAR	LIMA TOWER
253.500 129.450	293.850 120.455	122.100 377.575

APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
089°	3400	3° / 5.2%	**See CAT**	1761	-	5406

CAUTION:
a) DISREGARD PAPI.

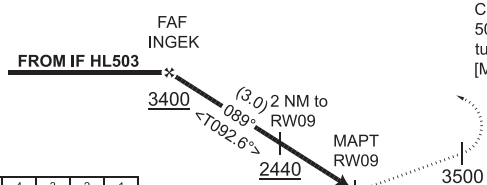
NOTE:
b) GNSS REQUIRED.
c) PROCEDURE LIMITED TO 220 KIAS MAX.
d) BARO-VNAV NOT AUTHORIZED BELOW -30°C.

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



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

TCH 50

5 — THR ELEV 1761

NO LIGHTS

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)

MIPS

CHANGE: EDITORIAL (185/25)

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

CHANGE: EDITORIAL (185/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

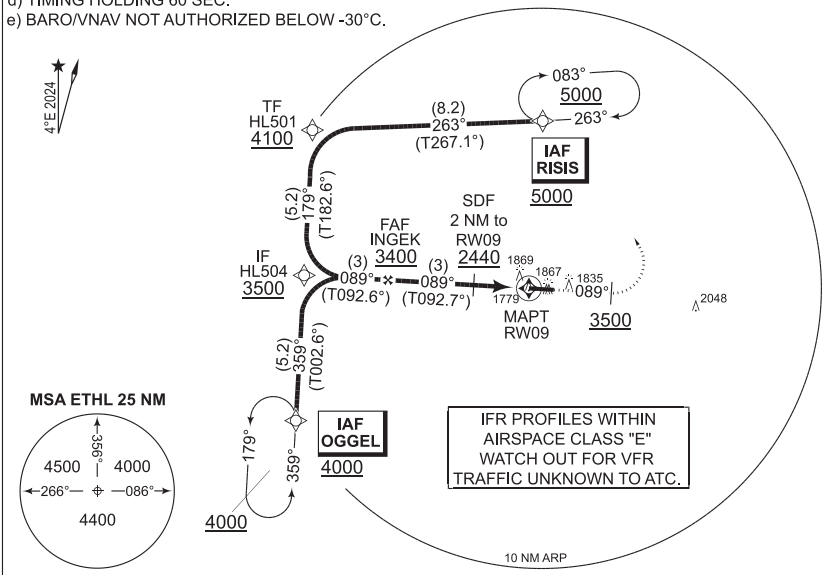
AD ELEV 1766

COPTER RNP RWY 09
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	LDA
089°	3400	5.2%	**See CAT**	1761	-	5406

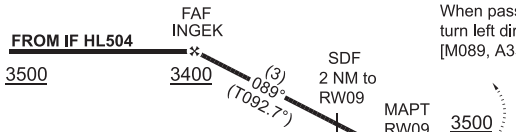
NOTE:
a) GNSS REQUIRED
b) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
c) NAVIGATION SPECIFICATION RNP APPROACH.
d) TIMING HOLDING 60 SEC.
e) BARO/VNAV NOT AUTHORIZED BELOW -30°C.



EMERG SAFE ALT 100 NM 14400

TA 5000

MISSED APPROACH
Climb on track 089° to 5000 ft.
When passing 3500 ft,
turn left direct to RISIS.
[M089, A3500; L],→RISIS [A5000+]



Distance THR	5	4	3	2
Altitude	3400	3070	2760	2440

5

THR ELEV 1761

TCH 36

NO LIGHTS

CATEGORY	H
LNAV	**2120** - 1.5 359 (400-1.5)
LNAV/VNAV	**2012** - 1.3 251 (300-1.3)

MPS

CHANGE: EDITORIAL (185/25)

ACC 19 FEB 2026

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

CHANGE: EDITORIAL (185/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1766

COPTER NDB RWY 09
LAUPHEIM (ETHL)

MUENCHEN RADAR		LIMA RADAR		LIMA TOWER	
253.500	129.450	293.850	120.455	122.100	377.575

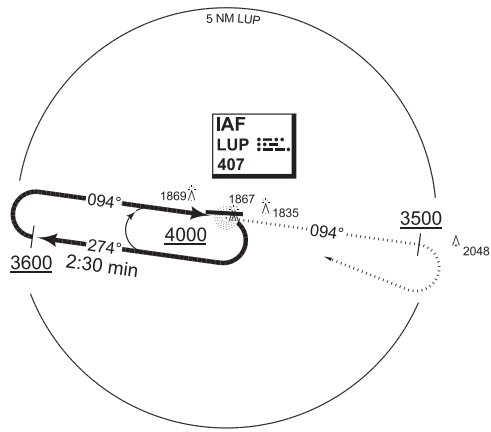
APP COURSE	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
094°	7.3%	**2310**	1761	–	5406

CAUTION:
a) INCREASED DESCENT RATE ON FINAL.

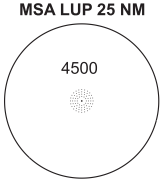
IAF
48°13.09'N
009°54.68'E

4°E 2024

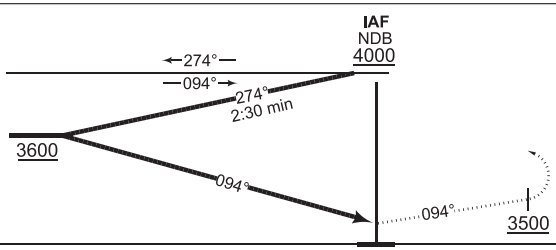
IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



MSA LUP 25 NM



EMERG SAFE ALT 100 NM 14400



TA 5000

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

TCH 50

THR ELEV 1761

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

MIPS

CHANGE: EDITORIAL (186/25)

ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1766

RNP RWY 27
LAUPHEIM (ETHL)

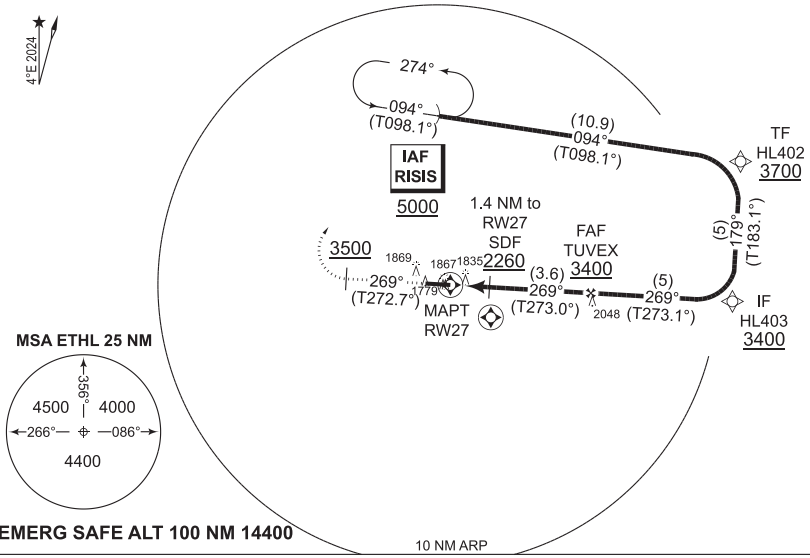
MUENCHEN RADAR	LIMA RADAR	LIMA TOWER
253.500 129.450	293.850 120.455	122.100 377.575

APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
269°	3400	3° / 5.2%	**See CAT**	1766	600 M	5406

CAUTION:
a) DISREGARD PAPI.

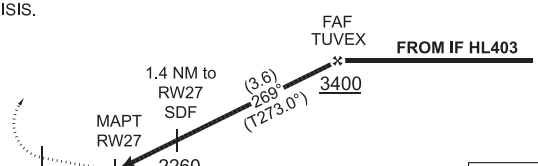
NOTE:
b) GNSS REQUIRED.
c) PROCEDURE LIMITED TO 220 KIAS MAX.
d) BARO-VNAV NOT AUTHORIZED BELOW -30°C.

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



MISSED APPROACH **TA 5000**

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



Dist THR / RW27	1.4	2	3	4	5
Altitude	2260	2500	2800	3100	3400

MIPS	CATEGORY	A	B	C	D
	LNAV	**2170** - 1.2 404 (500-1.2/1.5)		**2170** - 1.2 404 (500-1.2/1.9)	
	LNAV / VNAV	**2016** - 0.8 550 250 (300-0.8/1.3)	**2016** - 0.8 550 250 (300-0.8/1.3)	**2025** - 0.8 600 259 (300-0.8/1.3)	**2048** - 0.8 650 282 (300-0.8/1.4)

CHANGE: EDITORIAL (185/25)

ACC 19 FEB 2026

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

CHANGE: EDITORIAL (185/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1766

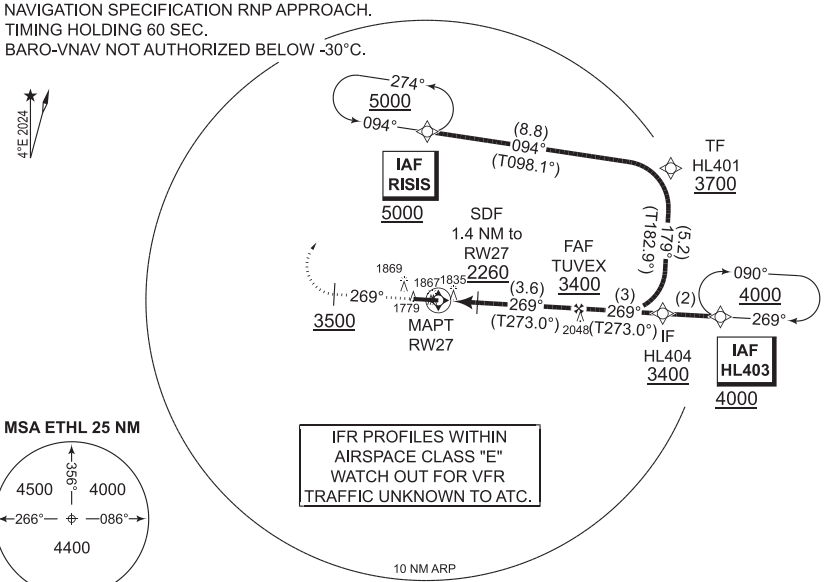
COPTER RNP RWY 27
LAUPHEIM (ETHL)

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	LDA
269°	3400	5.2%	**See CAT**	1766	600 M	5406

NOTE:

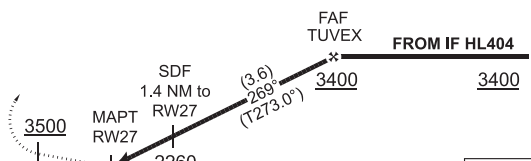
a) GNSS REQUIRED.
b) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
c) NAVIGATION SPECIFICATION RNP APPROACH.
d) TIMING HOLDING 60 SEC.
e) BARO-VNAV NOT AUTHORIZED BELOW -30°C.



EMERG SAFE ALT 100 NM 14400

MISSED APPROACH **TA 5000**

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



Distance THR	2	3	4	5
Altitude	2450	2770	3090	3400

TCH 50

THR ELEV 1766 — 5 — S-ALS

CATEGORY	H
LNAV	**2170** - 1.2 404 (500-1.2/1.5)
LNAV/VNAV	**2016** - 0.8 550 250 (300-0.8/1.3)

MPS

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

CHANGE: EDITORIAL (185/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1766

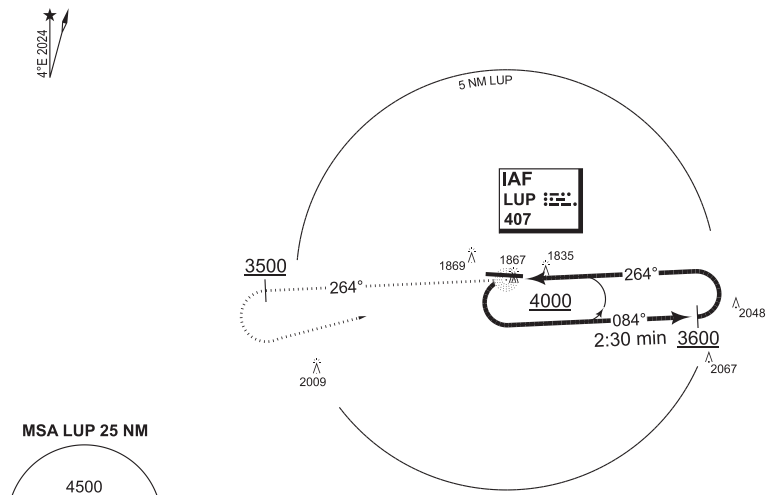
COPTER NDB RWY 27
LAUPHEIM (ETHL)

MUENCHEN RADAR		LIMA RADAR		LIMA TOWER	
253.500	129.450	293.850	120.455	122.100	377.575

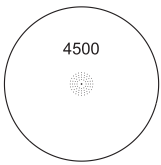
APP COURSE	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
264°	7.1%	**2350**	1766	600 M	5406

CAUTION:
a) INCREASED DESCENT RATE ON FINAL.

IAF
48°13.09'N
009°54.68'E



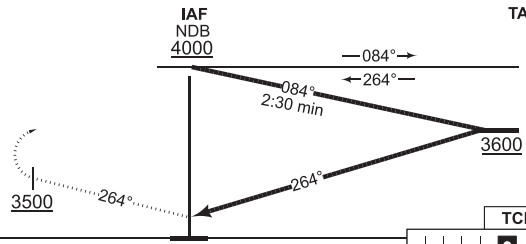
MSA LUP 25 NM



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

EMERG SAFE ALT 100 NM 14400

MISSED APPROACH
Climb on track 264° to altitude 4000 ft. When passing altitude 3500 ft turn left inbound LUP NDB.

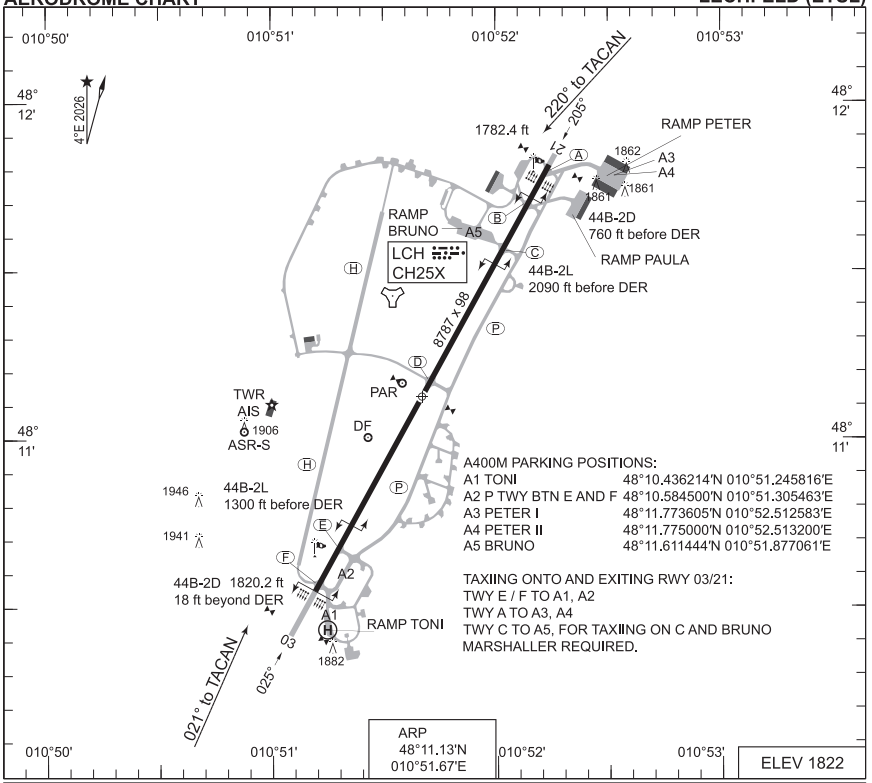


CATEGORY	COPTER
H-RWY 27	**2350** - 0.8 584 (600-0.8)

MIPS

CHANGE: EDITORIAL (18S/25)

ACC 19 FEB 2026



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

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	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)

CHANGE: VAR (044/26)

ACC 16 APR 2026

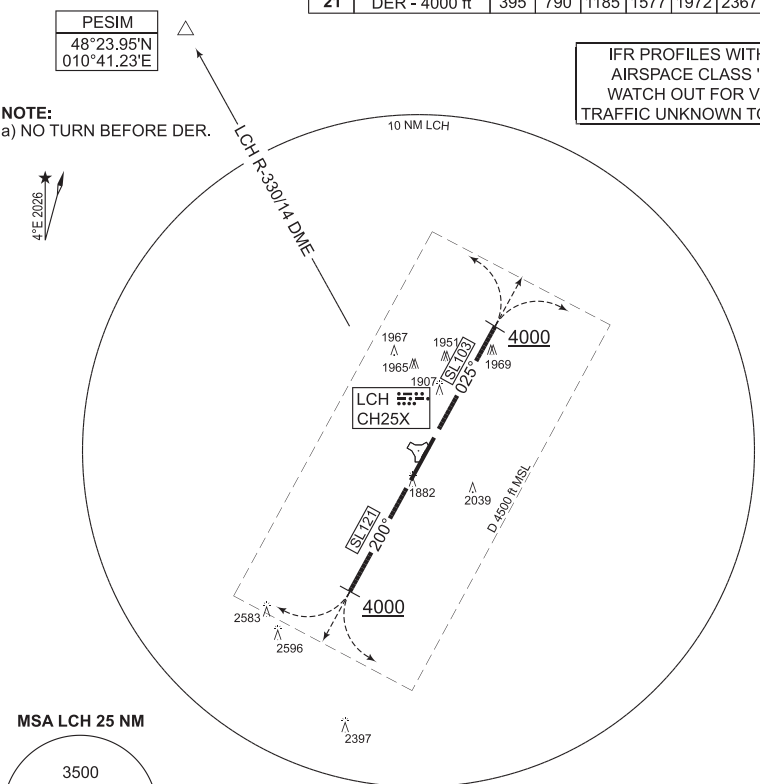
LECHFELD TOWER	LECHFELD RADAR	MUENCHEN RADAR
363.375 135.155	376.300 374.925 129.030	242.200 136.525

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

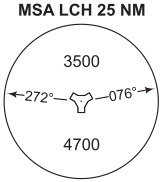
PESIM
48°23.95'N
010°41.23'E

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

NOTE:
a) NO TURN BEFORE DER.



MSA LCH 25 NM



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

CHANGE: EDITORIAL (083/26); VAR (044/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1822

RNP RWY 03
LECHFELD (ETSL)

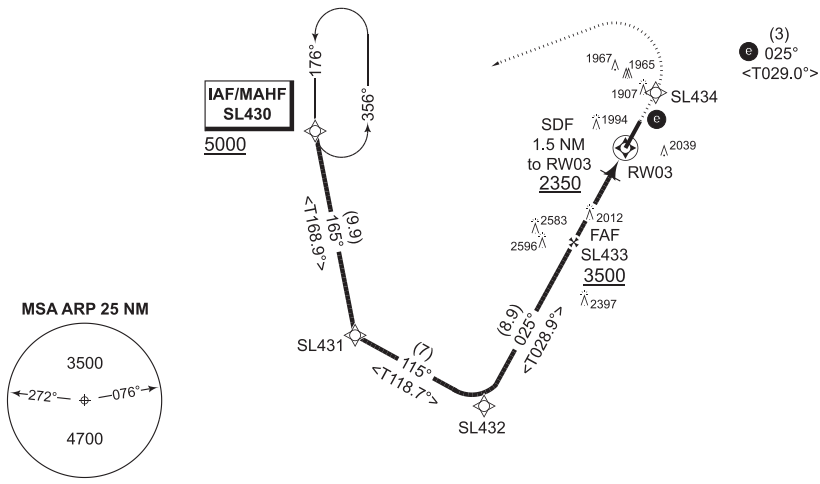
MUENCHEN RADAR	LECHFELD RADAR	LECHFELD TOWER
242.200 136.525	376.300 374.925 129.030	363.375 135.155 122.100

APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
025°	3500	3° / 5.2%	**See CAT**	1820	700 M	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.

4°E 2026

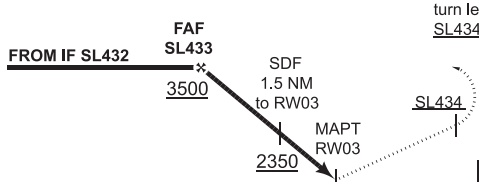


MSA ARP 25 NM

EMERG SAFE ALT 100 NM 14800

TA 5000

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



Dist THR / RW03	1	2	3	4	5
Altitude	2190	2510	2830	3150	3500

TCH 50

CAT I

5.1

THR ELEV 1820

	CATEGORY	A	B	C	D
MIPS	LNAV	**2220** - 1.1 398 (400-1.1/1.5)		**2220** - 1.1 398 (400-1.1/1.8)	
MIPS	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)
MIPS	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)

CHANGE: VAR (044/26)

ACC 16 APR 2026

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

CHANGE: EDITORIAL (130/26)
ACC 11 JUN 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1822

TACAN RWY 03
LECHFELD (ETSL)

MUENCHEN RADAR	LECHFELD RADAR	LECHFELD TOWER
242.200 136.525	376.300 374.925 129.030 123.300	135.155 363.375 122.100

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
LCH CH25X	021°	4700	3.3° / 5.7%	**2260**	1820	700 M	8787

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

4°E 2026

NEU CH26X

IAF
48°11.91'N
010°29.13'E

IGL CH51X

221° (43)

232° (53)

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

IAF
R-270/15 DME

240°

R-021

2160

4

1969

1967

1994

1907

1

2039

2012

LCH CH25X

16

R-270

270°

090°

11

2596

5

2397

9

Arc 15

021°

R-211

R-201

20 NM LCH

MSA LCH 25 NM

3500

272°

076°

4700

TD 090°

160°

LT

RT

340°

EMERG SAFE ALT 100 NM 14800

TA 5000

IAF
R-270 15
270°
090°
Arc 15
FL170
FL070
TACAN
R-211
9
5
1
4
5500
021°
4700
3300

MISSED APPROACH
Climb on LCH R-021 to 4 DME, turn left on track 240° to intercept LCH R-270 to reenter holding. Climb to 6000 ft.

CAT I

8.12

TDZE 1820

CATEGORY	A	B	C	D	E
MPS 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)	
MPS 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)	
MPS PAR 03	**2022** - 0.8 200 (200-0.8/1.2) GS 3.0°				

CHANGE: VAR (044/26)

ACC 16 APR 2026

TACAN RWY 03

48°11.13'N
010°51.67'E

LECHFELD (ETSL)

PANS-OPS
INSTRUMENT APPROACH CHART

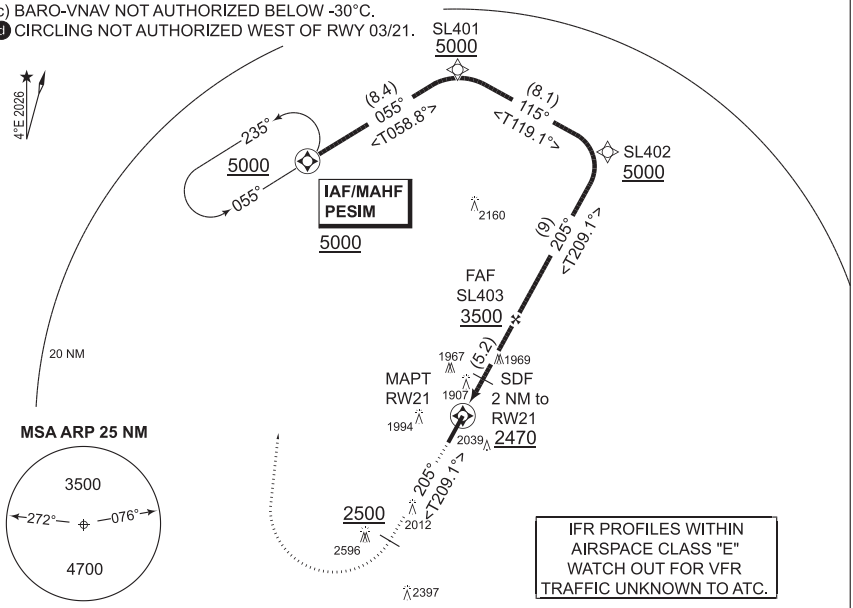
AD ELEV 1822

RNP RWY 21
LECHFELD (ETSL)

MUENCHEN RADAR	LECHFELD RADAR	LECHFELD TOWER
242.200 136.525	376.300 374.925 129.030	363.375 135.155

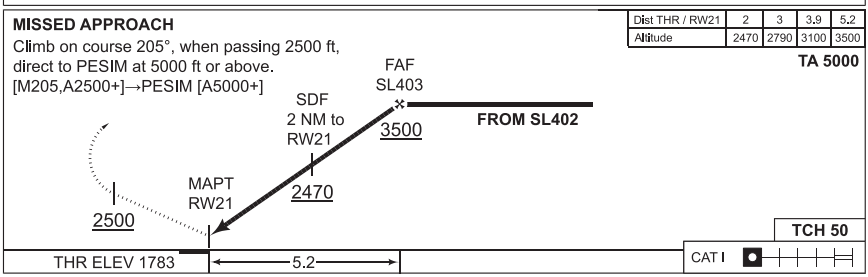
APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
205°	3500	3° / 5.2%	**See CAT**	1783	750 M	8787

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



EMERG SAFE ALT 100 NM 14800

MISSED APPROACH
Climb on course 205°, when passing 2500 ft,
direct to PESIM at 5000 ft or above.
[M205,A2500+]→PESIM [A5000+]



Dist THR / RW21	2	3	3.9	5.2
Altitude	2470	2790	3100	3500

TA 5000

CATEGORY	A	B	C	D
MPS LNAV	**2160** - 1.0 378 (400-1.0/1.5)		**2160** - 1.0 378 (400-1.0/1.7)	
MPS LNAV / VNAV	**2036** - 0.8/600 253 (300-0.8/1.3)	**2049** - 0.8/600 266 (300-0.8/1.3)	**2057** - 0.8/600 274 (300-0.8/1.3)	**2067** - 0.8/650 284 (300-0.8/1.4)
MPS d CIRCLING	**2290** - 2.2 468 (500-2.2)	**2340** - 2.4 518 (600-2.4)	**2490** - 3.1 668 (700-3.1)	**NOT AUTHORIZED**

CHANGE: VAR (044/26)

ACC 16 APR 2026

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

CHANGE: EDITORIAL (044/26)
ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1822

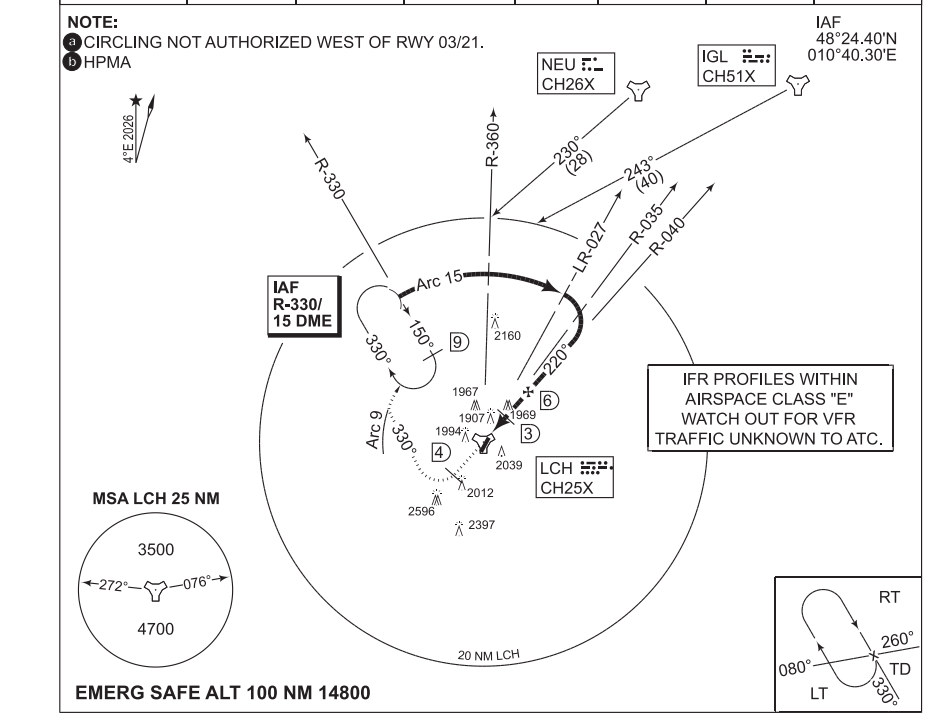
TACAN RWY 21
LECHFELD (ETSL)

MUENCHEN RADAR	LECHFELD RADAR	LECHFELD TOWER
242.200 136.525	376.300 374.925 129.030 123.300	135.155 363.375 122.100

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
LCH CH25X	220°	3500	3.0° / 5.2%	**2150**	1785	750 M	8787

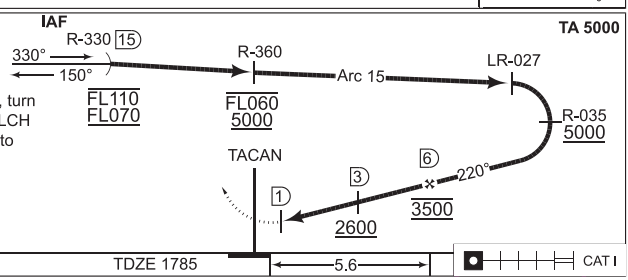
NOTE:
ⓐ CIRCLING NOT AUTHORIZED WEST OF RWY 03/21.
ⓑ HPMA

IAF
48°24.40'N
010°40.30'E



EMERG SAFE ALT 100 NM 14800

MISSED APPROACH
Climb on LCH R-220 to 4 DME, turn right on track 330° to intercept LCH Arc 9 to reenter holding. Climb to 5000 ft.



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

CHANGE: VAR (044/26)

ACC 16 APR 2026

TACAN RWY 21

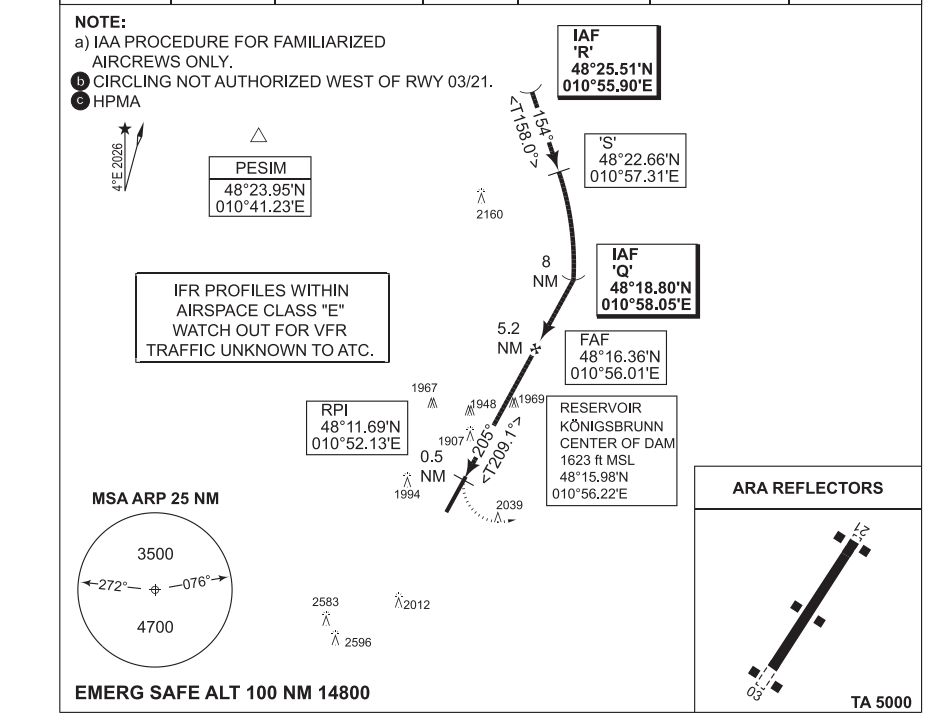
48°11.13'N
010°51.67'E

LECHFELD (ETSL)

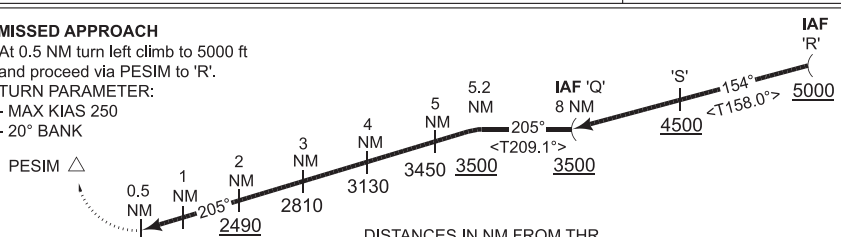
MUENCHEN RADAR	LECHFELD RADAR	LECHFELD TOWER
242.200 136.525	376.300 374.925 129.030	135.155 363.375

APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
205°	3500	5.27%	**2160**	1785	750 M	8787

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



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



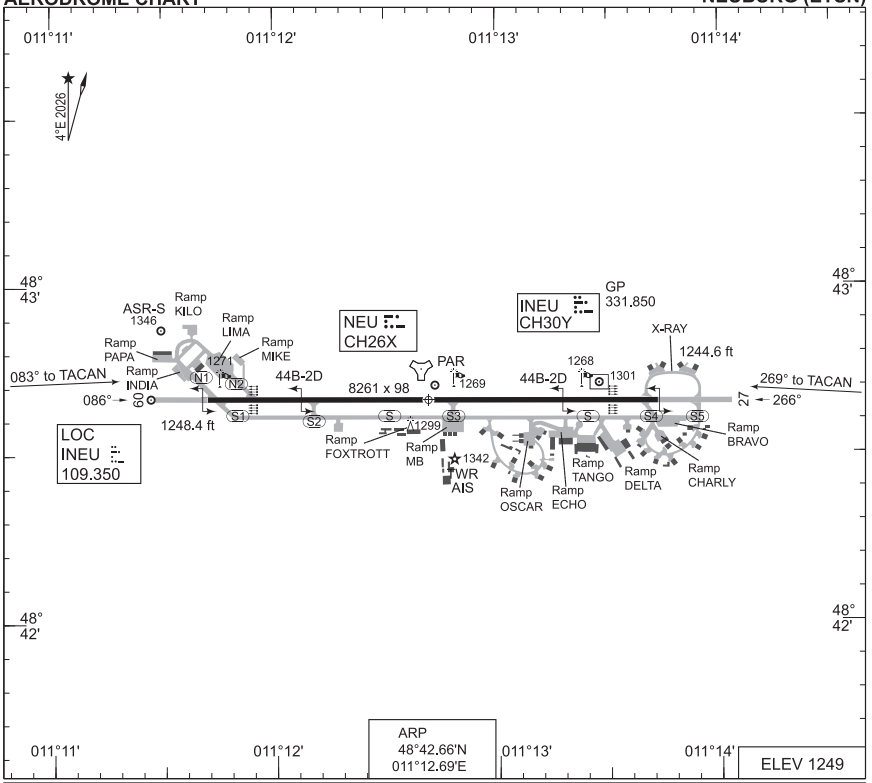
TDZE 1785
CAT I

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)	

MIPS

CHANGE: VAR (044/26)

ACC 16 APR 2026



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

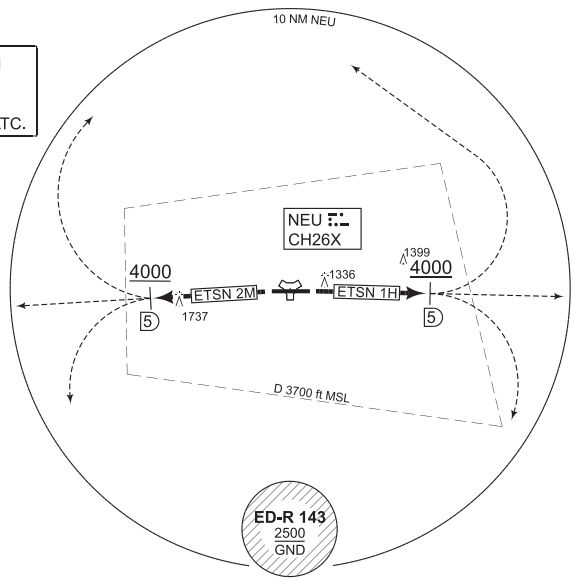
DONAU TOWER	DONAU RADAR	MUENCHEN RADAR
308.550 129.855	243.300 130.155	242.200 VHF O/R

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

RWY	from - to	60	120	180	240	300	360	Reason
09	DER - 4000 ft	638	1276	1914	2552	3190	3828	ATC
27	DER - 4000 ft	631	1262	1893	2524	3155	3786	ATC

4°E 2026

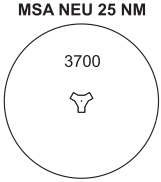
IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



△

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

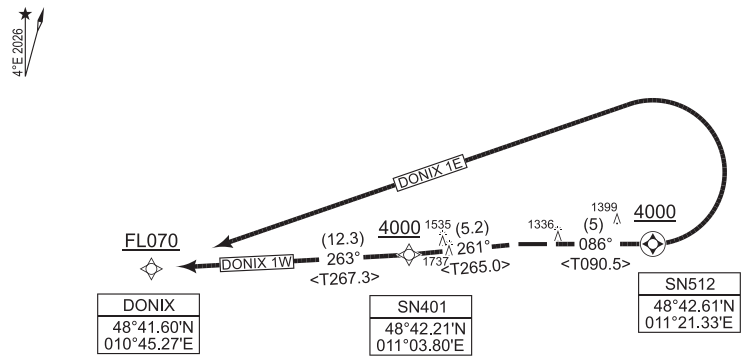
CHANGE: EDITORIAL (083/26): VAR (043/26)

ACC 16 APR 2026

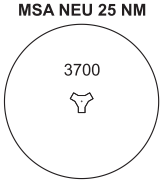
DONAU TOWER	DONAU RADAR	MUENCHEN RADAR
308.550 129.855 122.100	243.300 130.155	242.200 136.525

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



MSA NEU 25 NM



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 SN512 - Pass SN512 at altitude 4000 ft or above - Turn left direct inbound DONIX and continue climb - Pass DONIX at FL070 or above SN512 [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+]

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

CHANGE: EDITORIAL (043/26)
ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1249

TACAN RWY 09
NEUBURG (ETSN)

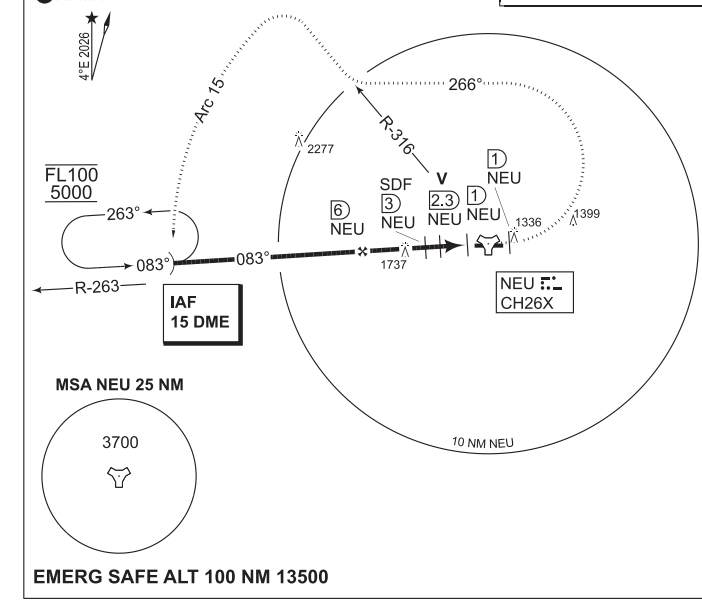
MUENCHEN RADAR	DONAU RADAR	DONAU TWR
242.200	243.300 130.155	308.550 129.855

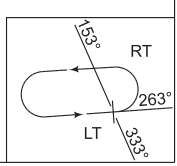
TACAN	APP COURSE	FAF ALT	GS	MDA	TDZE	ALS-LENGTH	LDA
NEU CH26X	083°	2900	3.0° / 5.2%	**1830**	1249	911 M	8150

IAF
48°41.93'N
010°50.05'E

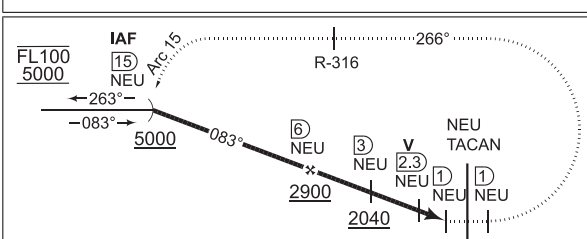
NOTE:
ⓐ CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
b) TIMING NOT AUTHORIZED FOR DEFINING THE MAPT.
ⓒ CIRCLING CAT C MAX 170 KIAS.
ⓓ HPMA

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 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

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

CHANGE: VAR. MA (043/26)

ACC 16 APR 2026

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)

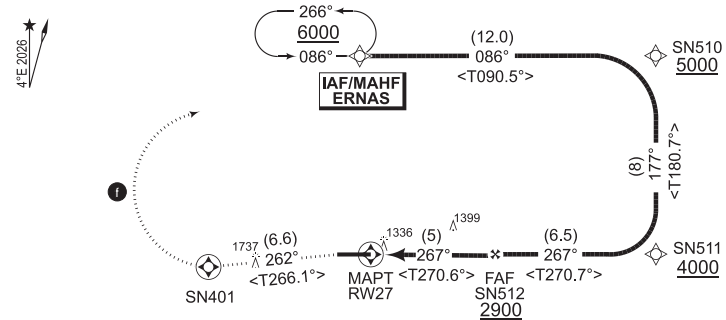
MUENCHEN RADAR	DONAU RADAR	DONAU TOWER
242.200 136.525	243.300 130.155 123.300	308.550 129.855 122.100

APP COURSE	FAF ALT	GS	DA/MDA	THR ELEV	ALS-LENGTH	LDA
267°	2900	3° / 5.2%	**See CAT**	1245	858 M	8261

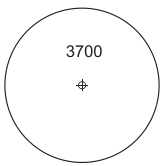
NOTE:

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.



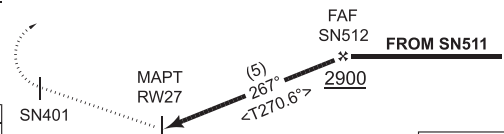
MSA ARP 25 NM



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+].



Distance THR	1	2	3	4	5
Altitude	1620	1940	2260	2580	2900

TCH 50

	CATEGORY	A	B	C	D
MIPS	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)

CHANGE: VAR (043/26)

ACC 16 APR 2026

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

CHANGE: EDITORIAL (043/26)
ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1249

ILS or LOC RWY 27
NEUBURG (ETSN)

MUENCHEN RADAR	DONAU RADAR	DONAU TOWER
242.200	243.300 130.155	308.550 129.855

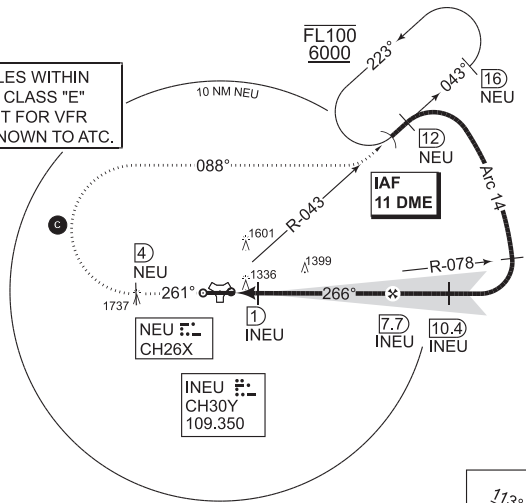
TACAN/LOC	APP COURSE	GS INTCP ALT	GS	DA	TDZE	ALS-LENGTH	LDA
NEU CH26X/INEU 109.350	266°	3700	3.0° / 5.2%	See CAT	1247	858 M	8261

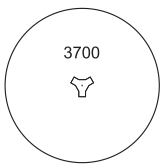
NOTE:
- (a) CIRCLING NOT AUTHORIZED NORTH OF RWY 09/27.
- (b) CIRCLING CAT C 170 KIAS MAX.
- (c) MISSED APPROACH TURN LIMITED TO 230 KIAS MAX.
- (d) HPMA
- e) TACAN REQUIRED.
- f) DME REQUIRED.

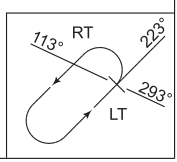
IAF
48°50.24'N
011°24.84'E

4°E 2026

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



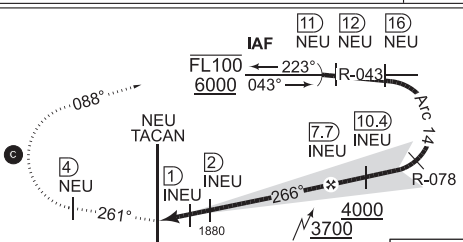




EMERG SAFE ALT 100 NM 13500

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.

TA 5000



	CATEGORY	A	B	C	D
MIPS	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)

CHANGE: VAR, MA, TRACKS (043/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1249

TACAN RWY 27
NEUBURG (ETSN)

MUENCHEN RADAR	DONAU RADAR	DONAU TOWER
242.200	243.300 130.155	308.550 129.855

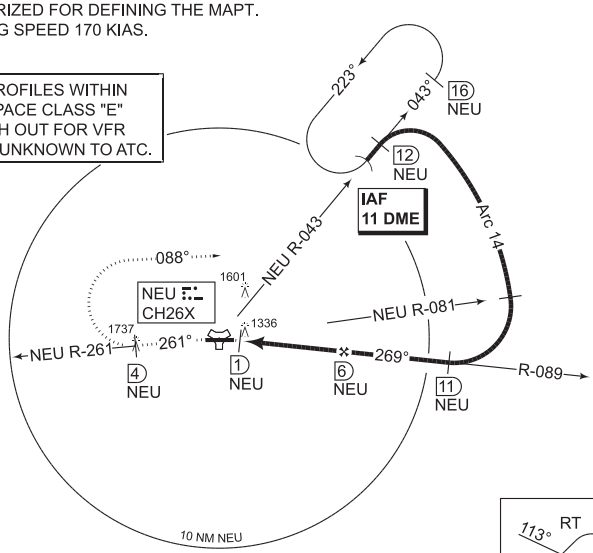
TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
NEU CH26X	269°	2900	5.2%	**1600**	1247	858 M	8261

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

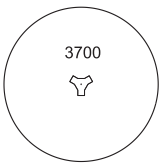
IAF
48°50.24'N
011°24.84'E

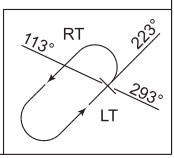
4°E 2026

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



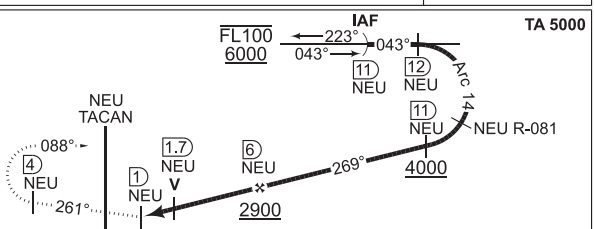
MSA NEU 25 NM





EMERG SAFE ALT 100 NM 13500

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.



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)			

MIPS

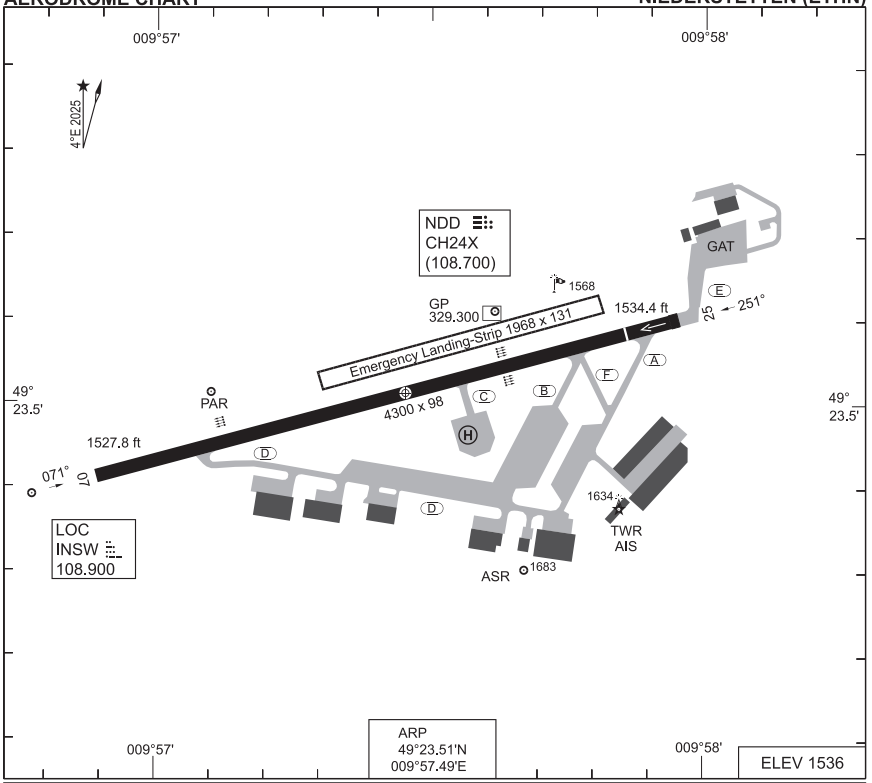
CHANGE: VAR. MA (043/26)

ACC 16 APR 2026

TACAN RWY 27

48°42.66'N
011°12.69'E

NEUBURG (ETSN)



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	MINIMA
PAR	TERPS	25	3.4°	49		825	AB	TERPS	1734 - 0.8 200 (200-0.8/1.2)
							C		1734 - 1.2 200 (200-1.2)
SRA	TERPS	07					AB	TERPS	1940 - 1.6 404 (500-1.6)
							C		1940 - 2.0 404 (500-2.0)
	TERPS	255					COPTER	TERPS	1900 - 0.4 366 (400-0.4/0.8)

CHANGE: EDITORIAL (183/25)

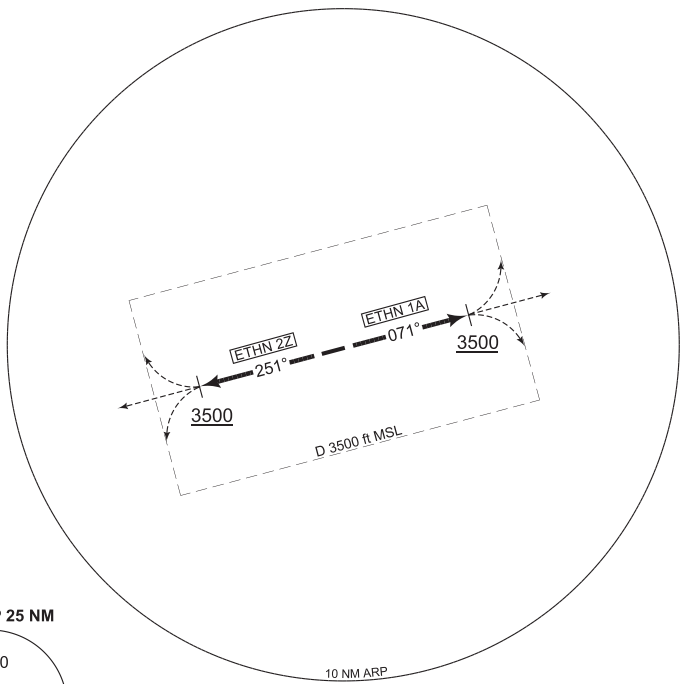
ACC 19 FEB 2026

STETTEN TOWER	STETTEN RADAR	LANGEN RADAR
134.205 356.675 122.100	269.250 127.190 123.300	398.650 135.725

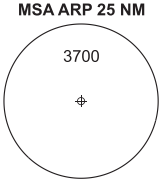
NOTE:
a) NO TURN BEFORE DER.
b) NOT FOR FLIGHTPLAN PURPOSE.

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 6400

TA 5000

ETHN 1A (RWY 07)	-	Climb straight ahead to 3500 ft
	-	Continue as cleared by ATC
ETHN 2Z (RWY 25)	-	Climb straight ahead to 3500 ft
	-	Continue as cleared by ATC

CHANGE: REVISED CHART (184/26)

ACC 01 OCT 2026

PANS-OPS
INSTRUMENT APPROACH CHART

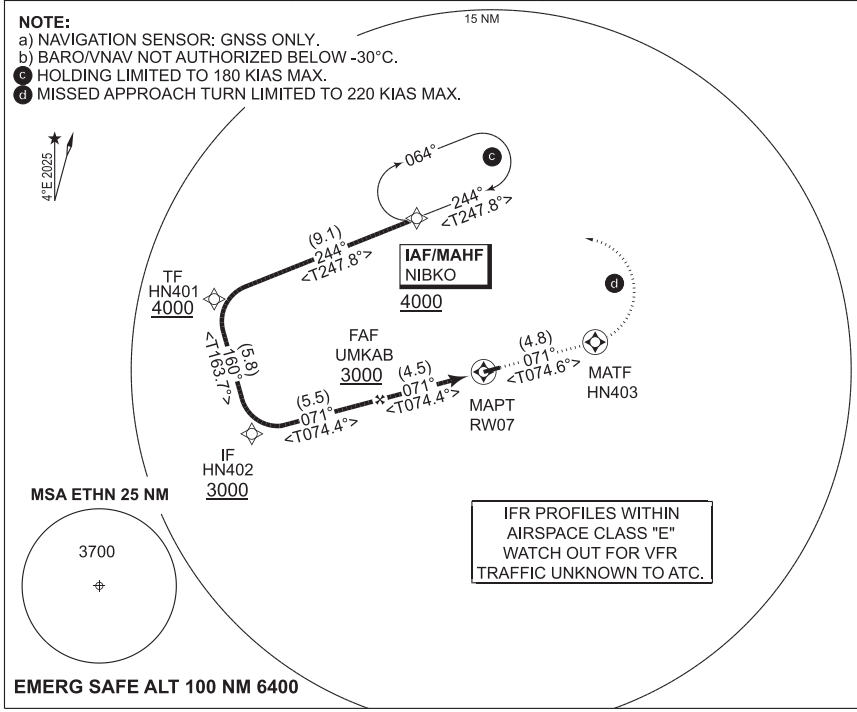
AD ELEV 1536

RNP RWY 07
NIEDERSTETTEN (ETHN)

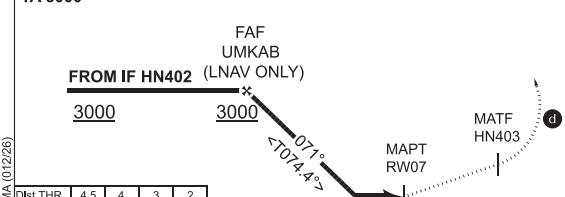
LANGEN RADAR	STETTEN RADAR	STETTEN TOWER
314.950 135.725	269.250 127.190	134.205 356.675 122.100

APP COURSE	FAF ALT	DESCENT GR	MDA / DA	THR ELEV	ALS-LENGTH	LDA
071°	3000	3.0° / 5.24%	**See CAT**	1528	-	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+]

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**

MIPS

CHANGE: EDITORIAL (183/25): MINIMA (012/26)

ACC 19 FEB 2026

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

CHANGE: EDITORIAL (183/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1536

RNP RWY 25
NIEDERSTETTEN (ETHN)

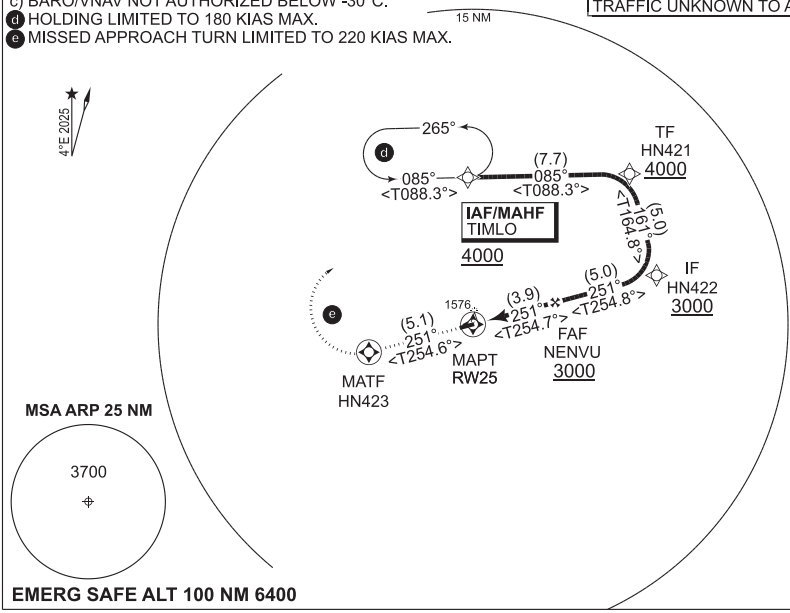
LANGEN RADAR	STETTEN RADAR	STETTEN TOWER
314.950 135.725	269.250 127.190	134.205 356.675 122.100

APP COURSE	FAF ALT	DESCENT GR	MDA / DA	THR ELEV	ALS-LENGTH	LDA
251°	3000	3.4° / 5.9%	**See CAT**	1535	600 M	3969

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

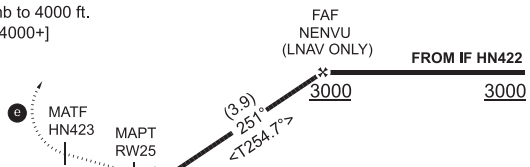
NOTE:
b) NAVIGATION SENSOR: GNSS ONLY.
c) BARO/VNAV NOT AUTHORIZED BELOW -30°C.
(d) HOLDING LIMITED TO 180 KIAS MAX.
(e) MISSED APPROACH TURN LIMITED TO 220 KIAS MAX.

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



MISSED APPROACH **TA 5000**

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



Dist THR	1	2	3	4
Altitude	1930	2280	2630	3000

THR ELEV 1535 — 3.9

TCH 50

CAT I

CHANGE: EDITORIAL (183/25)

MIPS	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**

ACC 19 FEB 2026

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

CHANGE: EDITORIAL (183/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1536

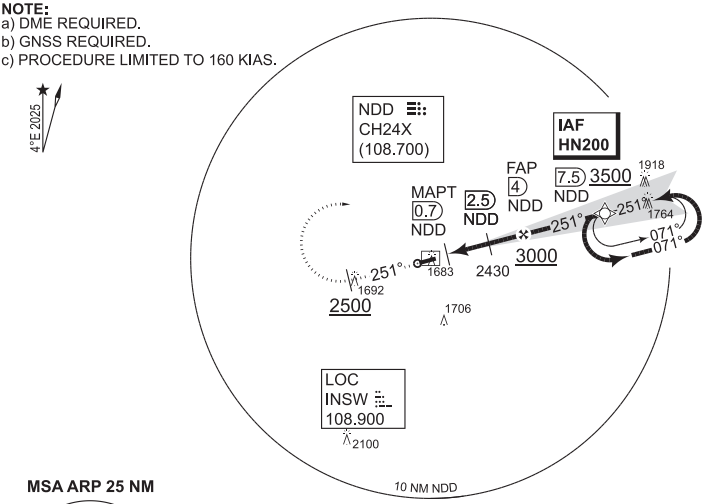
ILS or LOC RWY 25
NIEDERSTETTEN (ETHN)

LANGEN RADAR	STETTEN RADAR	STETTEN TOWER
398.650 135.725	269.250 123.300 127.190	134.205 356.675 122.100

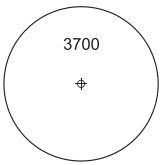
DME / LOCALIZER	APP COURSE	GS INTCP ALT	GS	DA/MDA	THR ELEV	ALS-LENGTH	LDA
NDD CH24X / INSW108.9	251°	3000	3.4°	**See CAT**	1535	600 M	3969

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

IAF
49°25.52'N
010°08.75'E



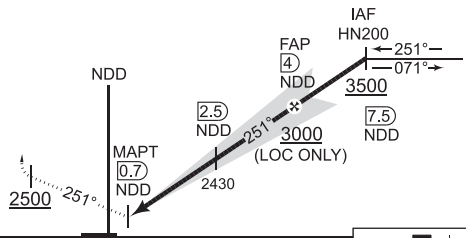
MSA ARP 25 NM



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

CATEGORY	A	B	C
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)

MIPS

CHANGE: EDITORIAL (183/25)

ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 1536

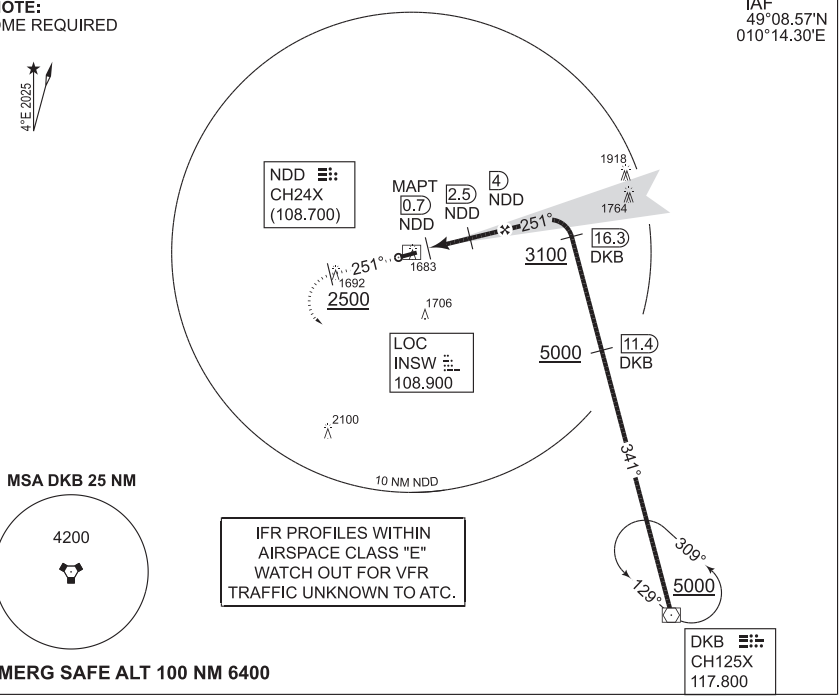
COPTER ILS or LOC RWY 25
NIEDERSTETTEN (ETHN)

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

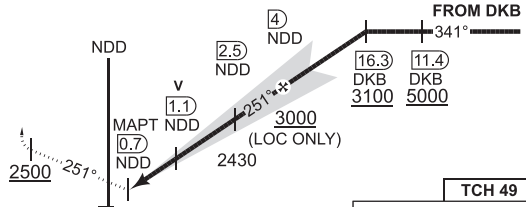
NOTE:
DME REQUIRED

IAF
49°08.57'N
010°14.30'E



EMERG SAFE ALT 100 NM 6400

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



TCH 49

TDZE 1535

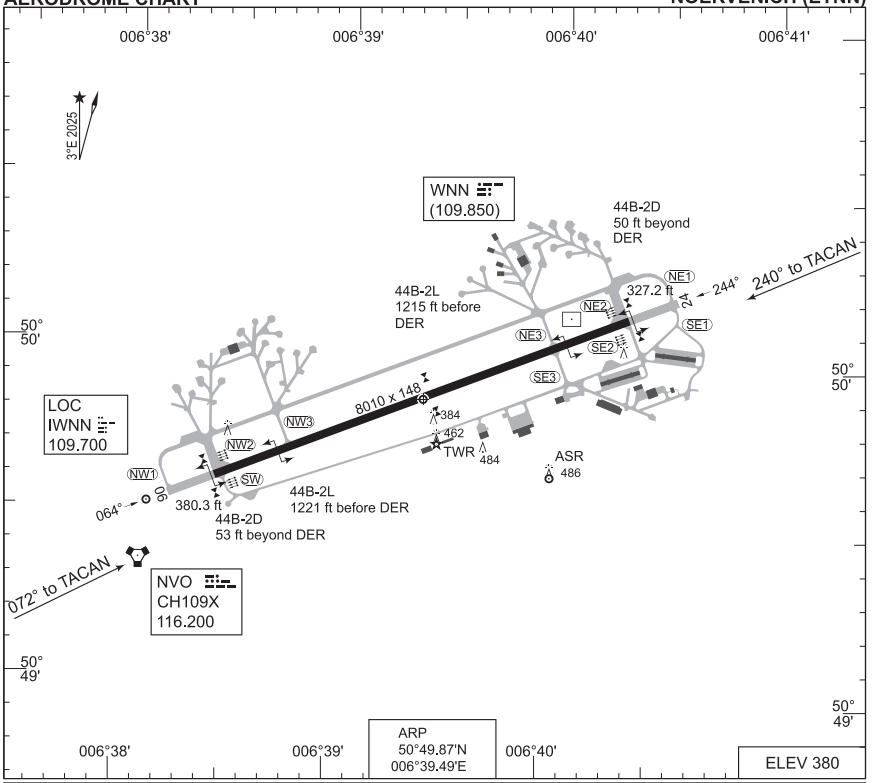
CAT I

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)

MIPS

CHANGE: EDITORIAL (183/25)

ACC 19 FEB 2026



RWY	LCN	TORA	ASDA	TODA	LDA	PAPI		TDZE	THR PSN
06	81	8010	8010	8010	8010	3.0°		380	50°49.61'N 006°38.53'E
24	81	8010	8010	8010	8010	3.0°		345	50°50.13'N 006°40.44'E

NOERVENICH TOWER 285.075 122.100 136.205
NOERVENICH RADAR 281.675 315.600 123.300 129.055 313.475 138.200x SSR 6160 - 6167

ⓐ MA 3.1%
ⓑ MA 2.5%

*beyond of threshold

	PROC. CRITERIA	RWY	GS	TCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	PANS-OPS	06	3.0°	50.0	1019.64*	ABCDE	MIPST	580 - 0.8/550 200 (200-0.8/1.2)
	PANS-OPS	24	3.0°	51.2	902.33*	ABCDE	MIPST	ⓐ 527 - 0.8/550 200 (200-0.8/1.2) ⓑ 533 - 0.8/550 206 (300-0.8/1.2)
SRA	PANS-OPS	06		50.0	1019.64*	AB CDE	MIPST MIPST	770 - 1.1 390 (400-1.1/1.5) 770 - 1.1 390 (400-1.1/1.8)
SRA	PANS-OPS	24		52.0	902.33*	AB CDE	MIPST MIPST	730 - 1.2 403 (500-1.2/1.5) 730 - 1.2 403 (500-1.2/1.9)

CHANGE: REVISED CHART (159/25)

ACC 25 DEC 2025

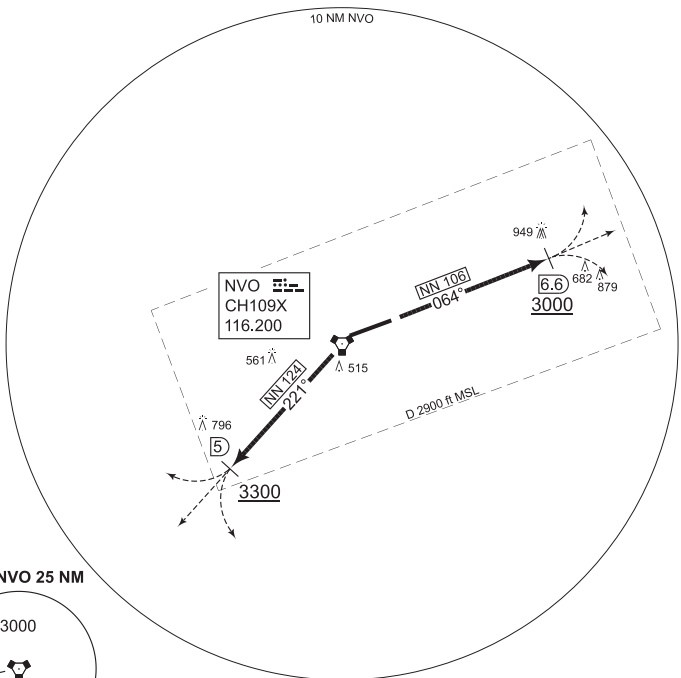
LANGEN RADAR	NOERVENICH RADAR	NOERVENICH TOWER
344.550 399.575 135.350	281.675 129.055	285.075 136.205 122.100

RWY	from - to	60	120	180	240	300	360	Reason
06	DER - 3000	533	1066	1599	2132	2665	3198	ATC
24	DER - 3300	522	1044	1566	2088	2610	3132	ATC

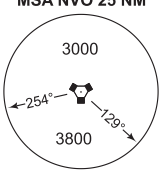
NOTE:
NO TURN BEFORE DER

3°E 2025

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

CHANGE: EDITORIAL (079/26)

ACC 16 APR 2026

INSTRUMENT DEPARTURE CHART

AD ELEV 380

NOERVENICH (ETNN)

LANGEN RADAR	NOERVENICH RADAR	NOERVENICH TOWER
344.550 399.575 135.350	281.675 129.055	285.075 136.205 122.100

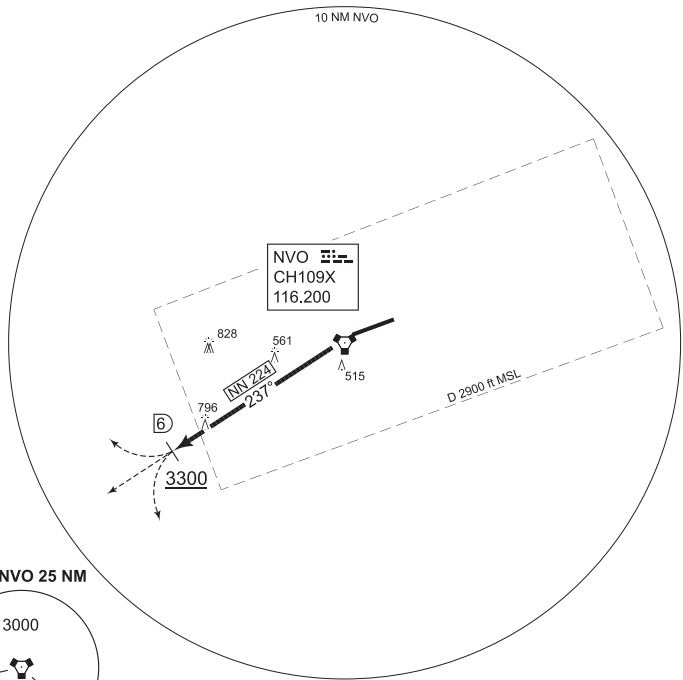
RWY	from - to	60	120	180	240	300	360	Reason
24	DER - 3300	456	912	1370	1827	2342	2740	ATC

NOTE:

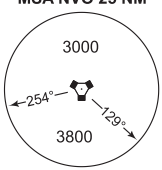
a) NO TURN BEFORE DER

3°E 2025

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 224 (RWY 24)	- Climb on track 237°. - Reach 3300 ft within NVO/6 DME. - When passing 3300 ft continue as cleared by ATC.

CHANGE: EDITORIAL (079/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 380

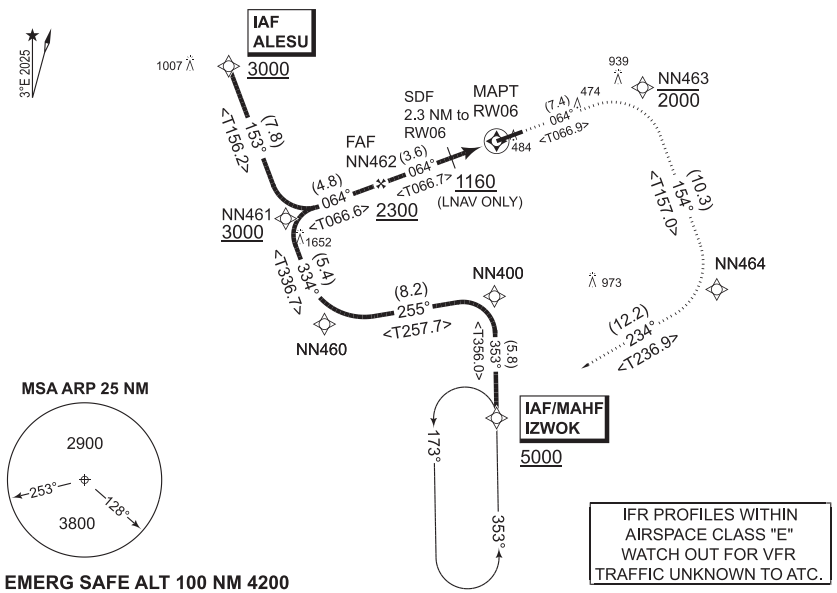
RNP RWY 06
NOERVENICH (ETNN)

LANGEN RADAR	NOERVENICH RADAR	NOERVENICH TOWER
344.550 135.350	281.675 129.055 123.300	285.075 136.205 122.100

APP COURSE	FAF ALT	DESCENT GR	DA/MDA	THR ELEV	ALS-LENGTH	LDA
064°	2300	3.0° / 5.2%	**see CAT**	380	1226 M	8010

NOTE:

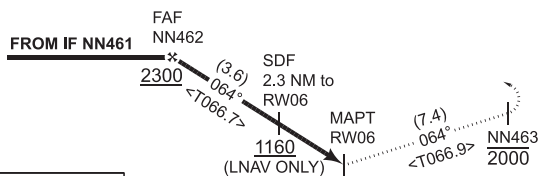
a) NAVIGATION SENSOR: GNSS ONLY.
b) NAVIGATION SPECIFICATION: RNAV 1 UNTIL NN461, RNP APCH THEREAFTER.
c BARO-VNAV NOT AUTHORIZED BELOW -30°C.
d HPMA



Dist THR	5.9	5	4	3	2	1
Altitude	2300	2020	1700	1390	1070	750

TA 5000

MISSED APPROACH
Climb on track 064° to NN463 at or below 2000 ft. To NN464, to IZWOK. Climb to 5000 ft. NN463 [M064; A2000-]; NN464 [M154]; IZWOK [M234; A5000+]



	CATEGORY	A	B	C	D
MIPS	LNAV	**770** - 1.1 390 (400-1.1/1.5)		**770** - 1.1 390 (400-1.1/1.8)	
	LNAV/VNAV c	**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)	d **1300** - 4.3 920 (1000-4.3)

CHANGE: REVISED CHART (159/25)

ACC 25 DEC 2025

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

CHANGE: REVISED CHART (159/25)
ACC 25 DEC 2025

PANS-OPS
INSTRUMENT APPROACH CHART AD ELEV 380

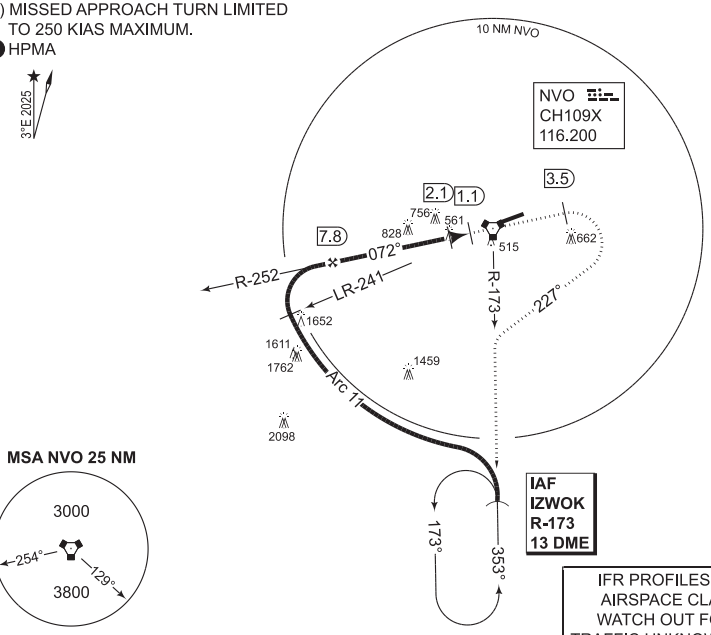
TACAN RWY 06
NOERVENICH (ETNN)

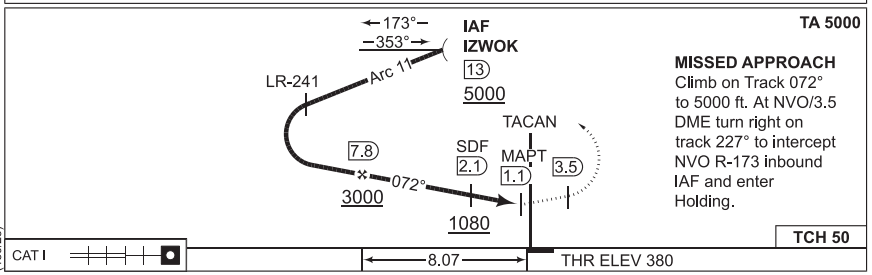
LANGEN RADAR	NOERVENICH RADAR	NOERVENICH TOWER
344.550 135.350	281.675 129.055 123.300	285.075 136.205 122.100

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
NVO CH 109X	072°	3000	5.2%	**780**	380	1226 M	8010

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

IAF
50°36.41'N
006°39.62'E





CATEGORY	A	B	C	D	E
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)	ⓑ **1300** - 4.3 920 (1000-4.3)	

MIPS

CHANGE: REVISED CHART (159/25)

ACC 25 DEC 2025

TACAN RWY 06 50°49.87'N 006°39.49'E **NOERVENICH (ETNN)**

PANS-OPS
INSTRUMENT APPROACH CHART

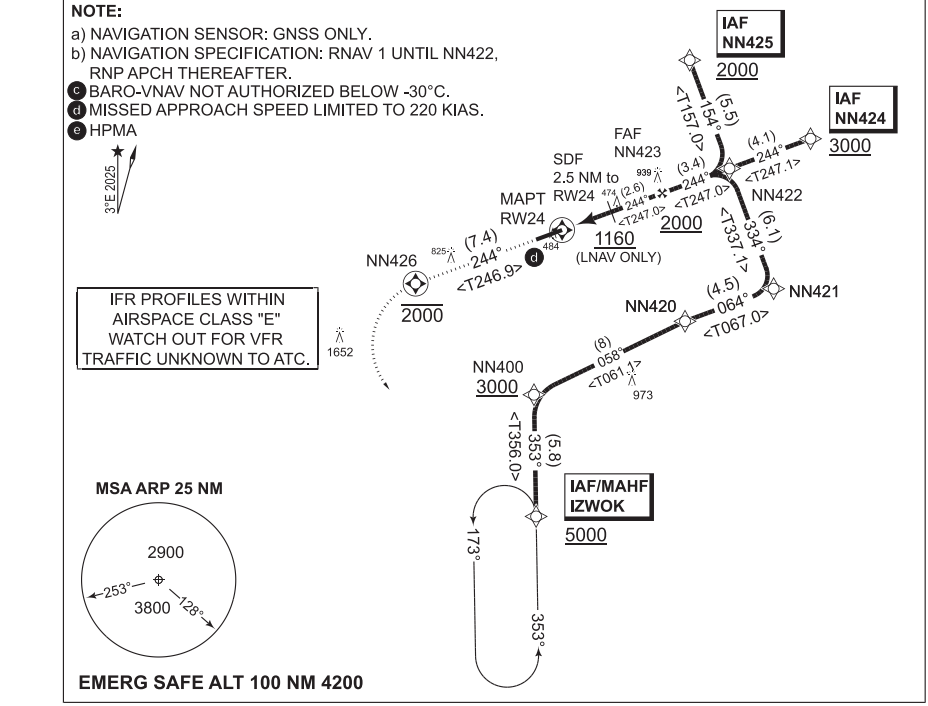
AD ELEV 380

RNP RWY 24
NOERVENICH (ETNN)

LANGEN RADAR	NOERVENICH RADAR	NOERVENICH TOWER
344.550 135.350	281.675 129.055 123.300	285.075 136.205 122.100

APP COURSE	FAF ALT	DESCENT GR	DA/MDA	THR ELEV	ALS-LENGTH	LDA
244°	2000	3.0° / 5.2%	**see CAT**	327	1215 M	8010

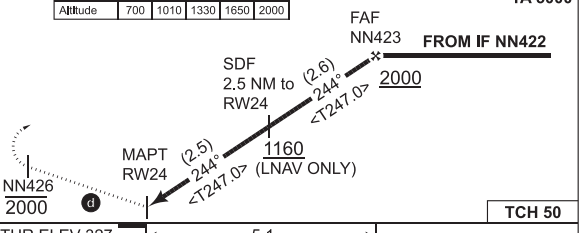
NOTE:
a) NAVIGATION SENSOR: GNSS ONLY.
b) NAVIGATION SPECIFICATION: RNAV 1 UNTIL NN422, RNP APCH THEREAFTER.
c BARO-VNAV NOT AUTHORIZED BELOW -30°C.
d MISSED APPROACH SPEED LIMITED TO 220 KIAS.
e HPMA



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



	CATEGORY	A	B	C	D
MIPS	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)
MIPS	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)
MIPS	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)

CHANGE: REVISED CHART (159/25)

ACC 25 DEC 2025

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

CHANGE: REVISED CHART (159/25)
ACC 25 DEC 2025

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 380

ILS or LOC RWY 24
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/LOC	APP COURSE	GS INTCPT ALT	DESCENT GR	DA	THR ELEV	ALS-LENGTH	LDA
NVO CH109X / IWNN109.7	244°	2000	3°/ 5.2%	See CAT	327	1215 M	8010

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

IAF
50°36.41'N
006°39.62'E

WNN CH35Y (109.850)

NVO CH109X 116.200

LOC IWNN 109.700

3°E 2025

6.7 NVO
3.8 NVO
2.4 NVO
5.2 WNN
2.4 NVO
1 WNN
2.4 WNN
4 WNN
5.4 NVO
3 NVO

1025
949
879
682
828
756
515

244°
-NVO LR-074
-NVO R-173
-NVO R-138
NVO Arc 11
127°
15 NM NVO

IAF
IZWOK
NVO
R-173
13 DME

173°
353°

MSA NVO 25 NM

3000
254°
129°
3800

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

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.

173°
353°
IAF
13
5000
NVO Arc 11
NVO R-138
3000
NVO LR-074
TACAN
DME
3 NVO
2.4 NVO
3.8 NVO
5.4 NVO
6.7 NVO
1 WNN
2.4 WNN
4 WNN
5.2 WNN
244°
1090 1600 2000

Distance THR	1	2	3	4	5
Altitude	710	1020	1330	1650	1960

TA 5000

TCH 51

THR ELEV 327
5.09
CAT I

CHANGE: REVISED CHART (159/25)

MIPS	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)	ⓑ **1300** - 4.3 920 (1000-4.3)	

ACC 25 DEC 2025

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 380

TACAN RWY 24
NOERVENICH (ETNN)

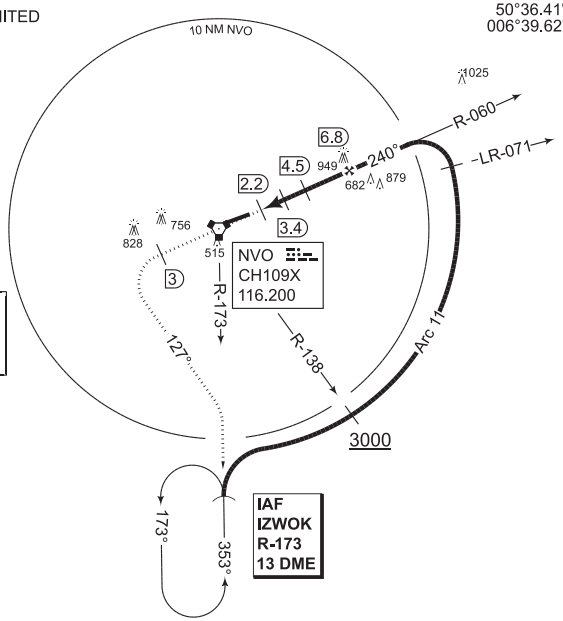
LANGEN RADAR	NOERVENICH RADAR	NOERVENICH TOWER
344.550 135.350	281.675 129.055 123.300	285.075 136.205 122.100

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
NVO CH 109X	240°	2000	5.2%	**690**	327	1215 M	8010

NOTE:
a) MISSED APPROACH TURN LIMITED TO 250 KIAS MAX.
b HPMA

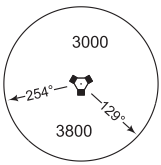
3°E 2025

IAF
50°36.41'N
006°39.62'E



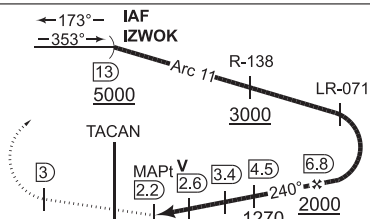
IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.

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.

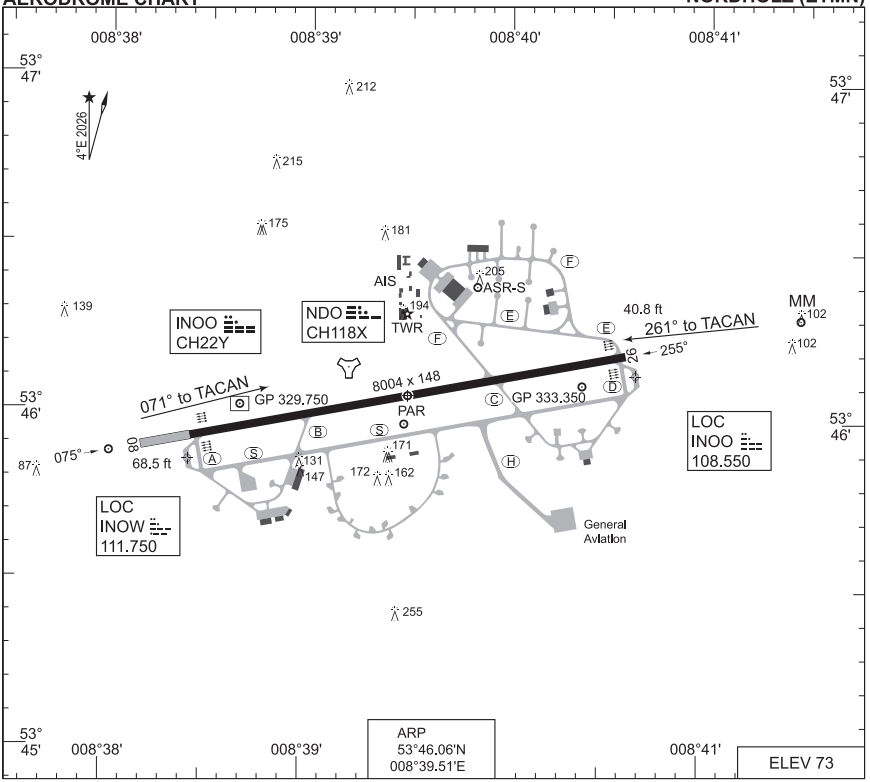


CATEGORY	A	B	C	D	E
TACAN 24	**690** - 1.0 363 (400-1.0/1.7)				
CIRCLING	**810** - 2.0 430 (500-2.0)	**950** - 2.6 570 (600-2.6)	**1400** - 4.9 1020 (1100-4.9)	b **1300** - 4.3 920 (1000-4.3)	

MIPS

CHANGE: REVISED CHART (159/25)

ACC 25 DEC 2025



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)

CHANGE: VAR (054/26)

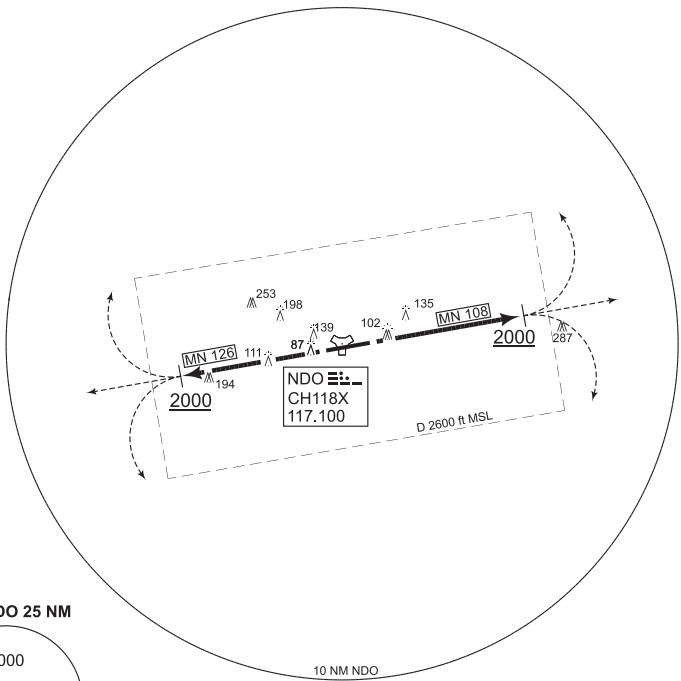
ACC 16 APR 2026

NORDHOLZ TOWER	NORDHOLZ RADAR	BREMEN RADAR
315.700 131.255	342.625 129.855	299.100 124.075

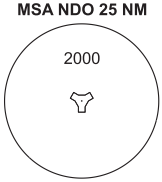
NOTE:
a) NO TURN BEFORE DER.

4°E 2026

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

CHANGE: EDITORIAL (083/26): VAR, FREQ (054/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 73

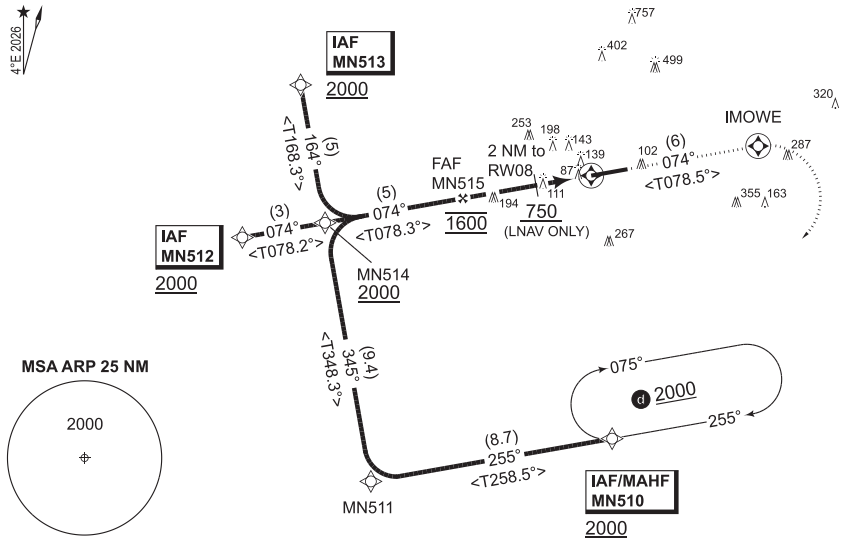
RNP RWY 08
NORDHOLZ (ETMN)

BREMEN RADAR	NORDHOLZ RADAR	NORDHOLZ TOWER
299.100 124.075	342.625 129.855	315.700 131.255

APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
074°	1600	3° / 5.2%	**See CAT**	69	900 m	8004

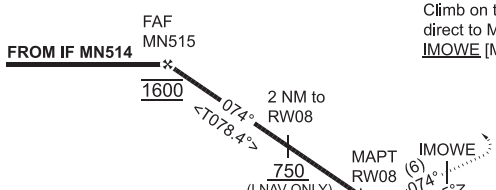
NOTE:
a) GNSS REQUIRED.
b) PROCEDURE LIMITED TO 220 KIAS MAX.
c) BARO/VNAV NOT AUTHORIZED BELOW -30°C.
d) HOLDING LIMITED TO 220 KIAS MAX.
e) CIRCLING NOT AUTHORIZED NORTH OF RWY 08/26.

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



TA 5000

MISSED APPROACH
Climb on track 074° to IMOWE. Turn right direct to MN510, climb to 3000 ft.
IMOWE [M074]; → MN510 [R;A3000+,K220-]



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)
e 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)

MIPS

CHANGE: EDITORIAL (183/26)

ACC 01 OCT 2026

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

CHANGE: EDITORIAL (183/26)
ACC 01 OCT 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 73

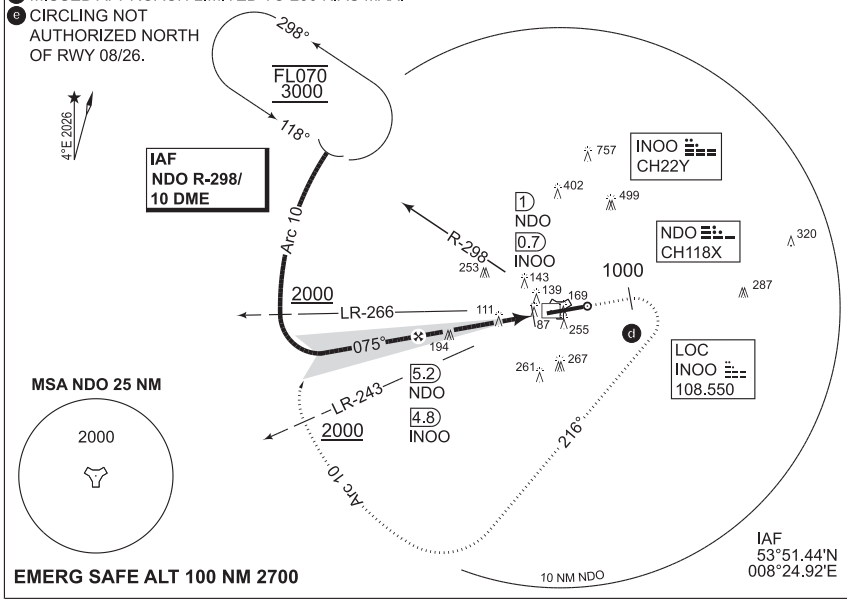
ILS or LOC RWY 08
NORDHOLZ (ETMN)

BREMEN RADAR	NORDHOLZ RADAR	NORDHOLZ TOWER
299.100 124.075	342.625 129.855	315.700 131.255 122.100

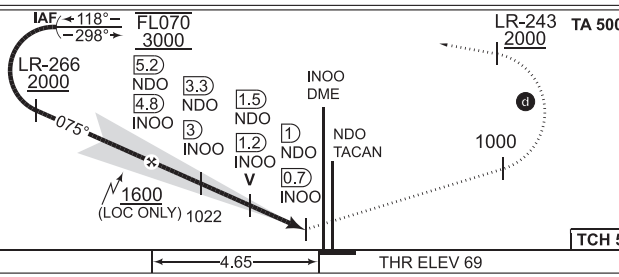
TACAN / LOCALIZER	APP COURSE	GS INTCP ALT	DESCENT GR	DA	THR ELEV	ALS-LENGTH	LDA
CH 118X / INOO 108.55	075°	1600	3.0° / 5.2%	**See CAT**	69	900 M	8004

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

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)	
e 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)

MIPS

CHANGE: LEAD RADIAL (103/26)

ACC 11 JUN 2026

ILS or LOC RWY 08

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)

TERPS
INSTRUMENT APPROACH CHART

AD ELEV 73

TACAN RWY 08
NORDHOLZ (ETMN)

BREMEN RADAR	NORDHOLZ RADAR	NORDHOLZ TOWER
299.100 124.075	342.625 129.855	315.700 131.255

TACAN	APP COURSE	FAF ALT	MDA	THR ELEV	ALS-LENGTH	LDA
NDO CH118X	070°	1600	**450**	69	900 M	8004

CAUTION:
ⓐ CIRCLING NOT AUTHORIZED NORTH OF RWY.

4°E 2026

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

SWG CH55X

209° (55)

NDO CH118X

R-285 7.5

R-250 7.5

757 402 253 143 198 139 102 111 287

HIRTA
Radius 0.11 NM
760 ft MSL
GND

249° 350° 170°

IAF
5 DME

10

R-170

MSA NDO 25 NM

2000

073° (35)

WTM CH82X

20 NM NDO

IAF
53°41.19'N
008°40.39'E

EMERG SAFE ALT 100 NM 2700

TA 5000

IAF
R-170 5
4000

TACAN

R-285 7.5
3500

285° 350°

R-250 7.5
2000

070°
5 3 1
1600 500

4000

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

4.5

THR ELEV 69

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°				

TERPS

CHANGE: WTM (103/26)

ACC 11 JUN 2026

TACAN RWY 08

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)

PANS-OPS
INSTRUMENT APPROACH CHART

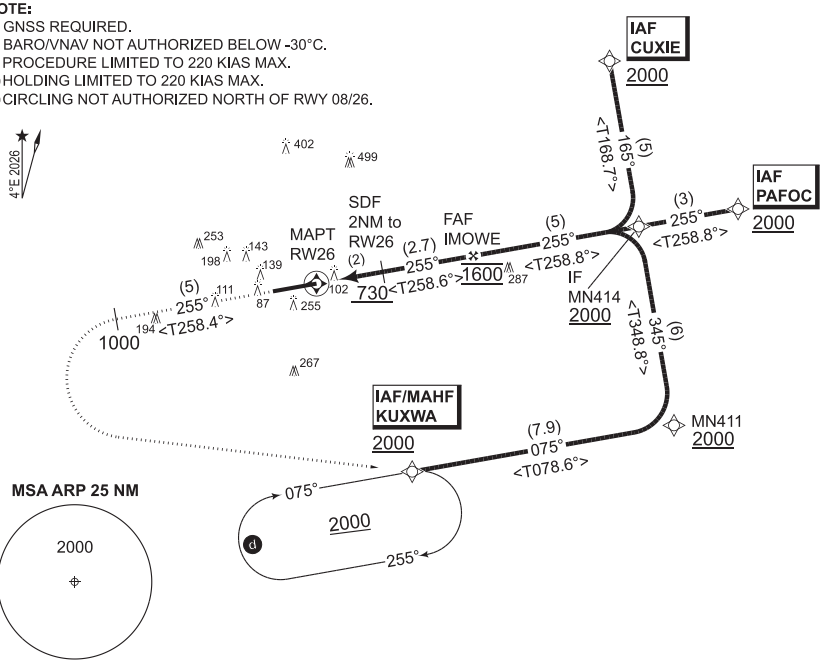
AD ELEV 73

RNP RWY 26
NORDHOLZ (ETMN)

BREMEN RADAR	NORDHOLZ RADAR	NORDHOLZ TOWER
299.100 124.075	342.625 129.855	315.700 131.255

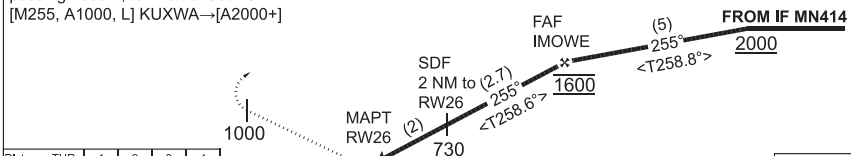
APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
255°	1600	3° / 5.2%	**See CAT**	41	900 m	8004

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.



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

TA 5000



Distance THR	1	2	3	4
Altitude	410	730	1050	1370

THR ELEV 41 — 4.7

TCH 50

CAT I

CHANGE: EDITORIAL (183/26)

	CATEGORY	A	B	C	D
MIPS	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)
MIPS	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)
MIPS	e 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)

ACC 01 OCT 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

CHANGE: EDITORIAL (183/26)
ACC 01 OCT 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 73

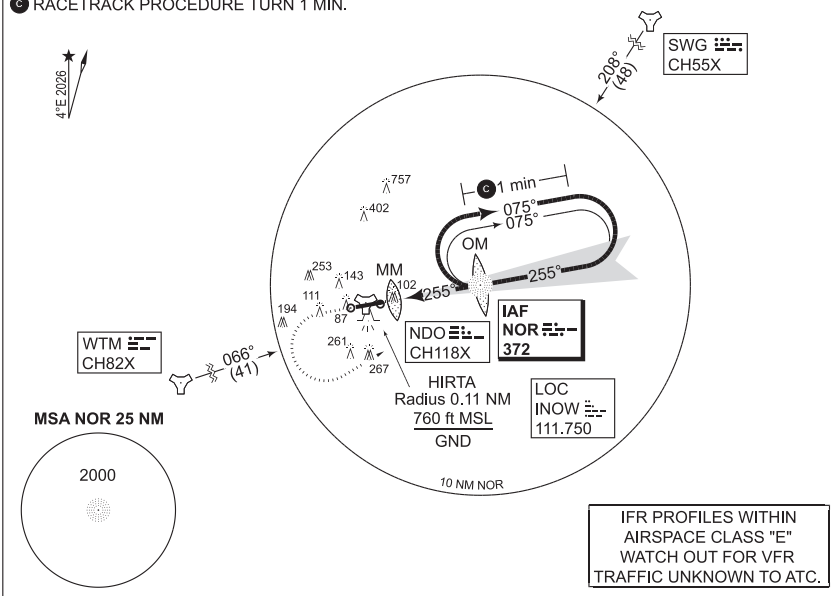
ILS or LOC RWY 26
NORDHOLZ (ETMN)

BREMEN RADAR	NORDHOLZ RADAR	NORDHOLZ TOWER
299.100 124.075	342.625 129.855	315.700 131.255

TACAN / LOCALIZER	APP COURSE	GS INTCP ALT	GS	DA	TDZE	ALS-LENGTH	LDA
CH 118X / INOW 111.750	255°	1600	3.0° (5.2%)	**See CAT**	64	900 M	8004

NOTE:
a) PROCEDURE LIMITED TO 230 KIAS.
b CIRCLING NOT AUTHORIZED NORTH OF RWY.
c RACETRACK PROCEDURE TURN 1 MIN.

IAF
53°47.11'N
008°48.37'E

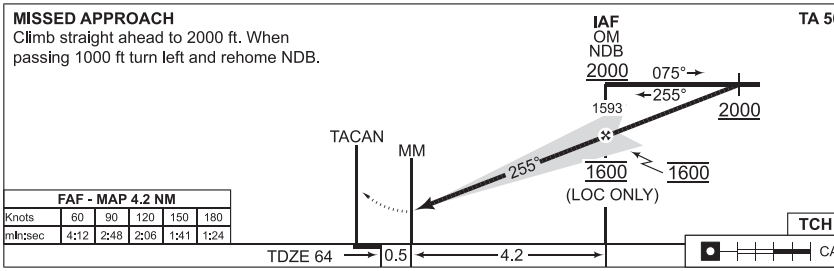


IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 2700

MISSED APPROACH
Climb straight ahead to 2000 ft. When passing 1000 ft turn left and rehome NDB.

TA 5000



FAF - MAP 4.2 NM					
Knots	60	90	120	150	180
min:sec	4:12	2:48	2:06	1:41	1:24

CATEGORY	A	B	C	D
MIPS S-ILS 26	**264** - 0.8/550 200 (200-0.8/1.2)			
MIPS S-LOC 26	**480** - 1.2 416 (500-1.2/1.5)		**480** - 1.2 416 (500-1.2/1.9)	
MIPS 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)

CHANGE: WTM (103/26)

ACC 11 JUN 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 73

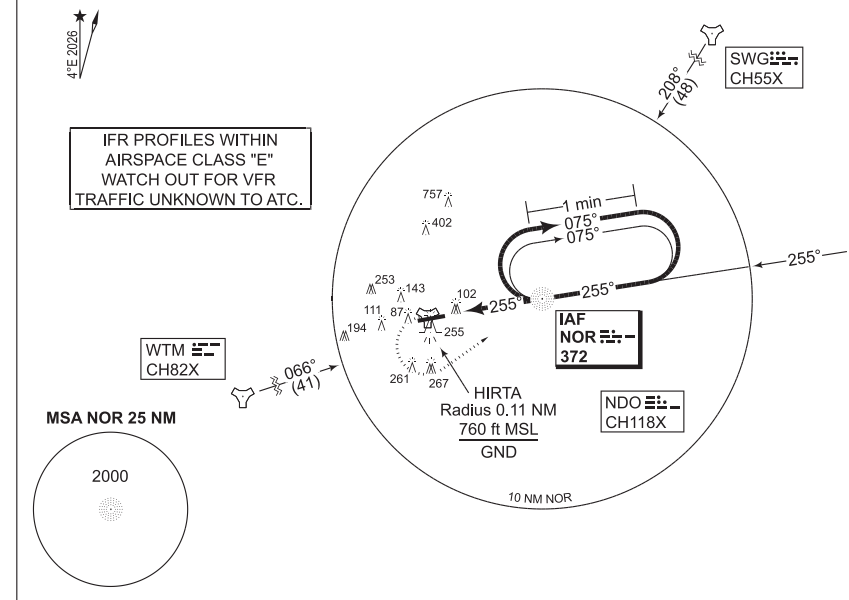
NDB RWY 26
NORDHOLZ (ETMN)

BREMEN RADAR	NORDHOLZ RADAR	NORDHOLZ TOWER
299.100 124.075	342.625 129.855	315.700 131.255

NDB	APP COURSE	FAF ALT	MDA	THR ELEV	ALS-LENGTH	LDA
NOR 372	255°	1600	**See CAT**	41	900 M	8004

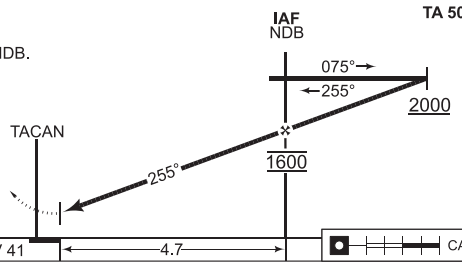
NOTE:
a) HOLDING/RT LIMITED TO 230 KIAS MAX.
ⓑ CIRCLING NOT AUTHORIZED NORTH OF RWY 08/26.

IAF
53°47.11'N
008°48.37'E



EMERG SAFE ALT 100 NM 2700

MISSED APPROACH
Climb on track 255° to 2000 ft MSL.
When passing 1000 ft MSL turn left and rehome NDB.



FAF - MAP 4.7 NM					
Knots	60	90	120	150	180
min:sec	4:42	3:08	2:21	1:53	1:34

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)	
ⓑ 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)

MIPS

CHANGE: WTM (103/26)

ACC 11 JUN 2026

TERPS
INSTRUMENT APPROACH CHART

AD ELEV 73

TACAN RWY 26
NORDHOLZ (ETMN)

BREMEN RADAR	NORDHOLZ RADAR	NORDHOLZ TOWER
299.100 124.075	342.625 129.855	315.700 131.255

TACAN	APP COURSE	FAF ALT	MDA	THR ELEV	ALS-LENGTH	LDA
NDO CH118X	260°	1600	**450**	41	900 M	8004

CAUTION:
ⓐ CIRCLING NOT AUTHORIZED NORTH OF RWY.

SWG CH55X

4°E 2026

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

NDO CH118X

757 402 253 198 139 181 102 287 111 194 131

7.5 R-045 R-061 R-080 260° 5 7.5 1

HIRTA
Radius 0.11 NM
760 ft MSL
GND

099° 350° 170° R-170 10

IAF
5 DME

209° (55)

073° (35)

WTM CH82X

MSA NDO 25 NM

2000

20 NM NDO

EMERG SAFE ALT 100 NM 2700

IAF
53°41.19'N
008°40.39'E

TA 5000

IAF
R-170
5
4000

350°

TACAN
4000

045°

7.5
R-045
3500

R-061
3000

7.5
R-080
2000

5
1
260°
1600

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

THR ELEV 41 ← 4.2 →

CAT I

CATEGORY	A	B	C	D	E
S-TACAN 26	**450** - 1.2 409 (500-1.2/1.5)		**450** - 1.2 409 (500-1.2/1.9)		
ⓐ CIRCLING	**560** - 2.3 487 (500-2.3)	**570** - 2.3 497 (500-2.3)	**780** - 3.3 707 (800-3.3)	**930** - 4.0 857 (900-4.0)	**1030** - 4.5 957 (1000-4.5)
PAR 26	**267** - 0.8 200 (200-0.8/1.2) GS 3.0°				

CHANGE: WTM (103/26)

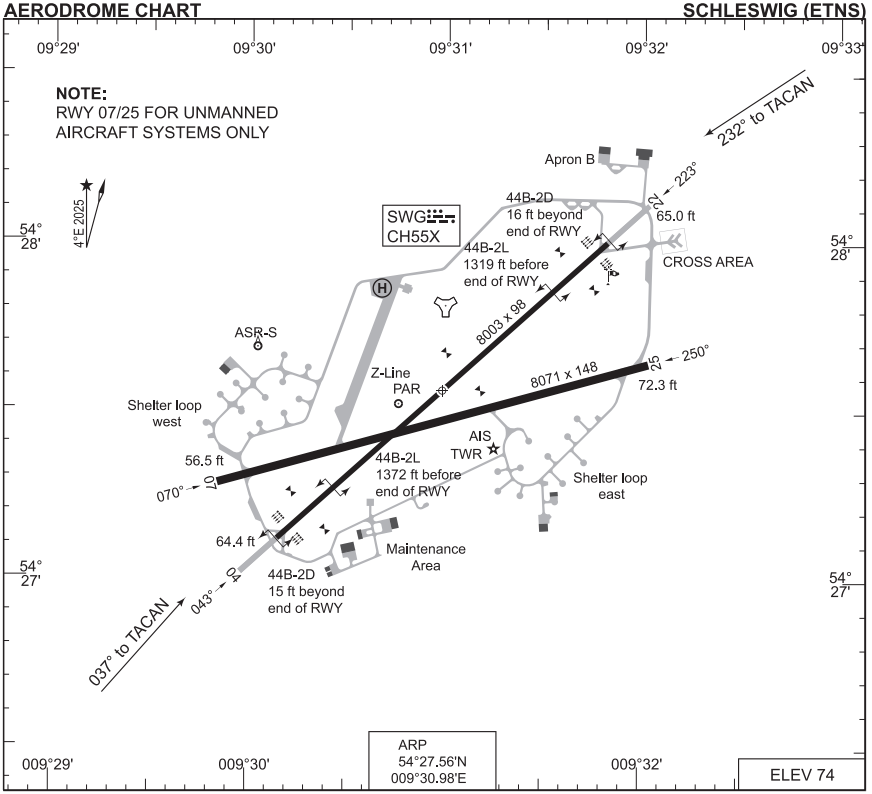
TERPS

ACC 11 JUN 2026

TACAN RWY 26

53°46.06'N
008°39.51'E

NORDHOLZ (ETMN)



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

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
PAR	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)

CHANGE: REVISED CHART (161/25)

ACC 25 DEC 2025

PANS-OPS
INSTRUMENT DEPARTURE CHART

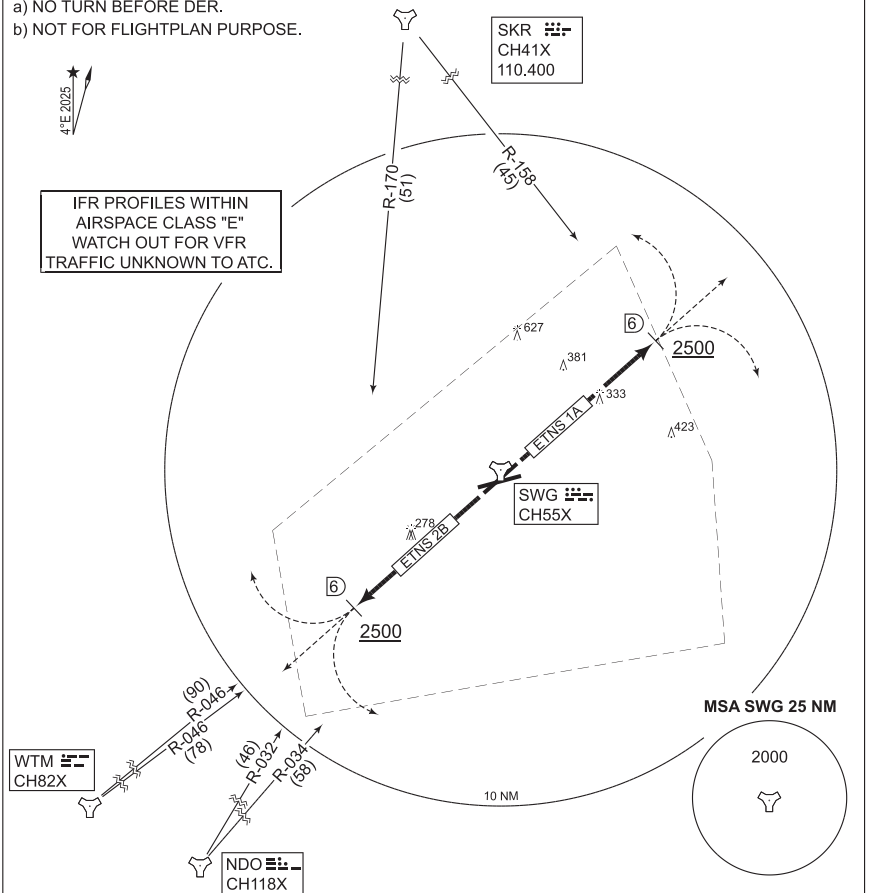
AD ELEV 74

ETNS 1A - 2B
SCHLESWIG (ETNS)

BREMEN RADAR	SCHLESWIG RADAR	SCHLESWIG TOWER	SCHLESWIG RFIS
299.100 124.075	376.825 142.050	246.500 135.155	118.555

RWY	from - to	60	120	180	240	300	360	Reason
04	DER - 3500 ft	437	874	1311	1748	2185	2622	ATC
22	DER - 3500 ft	468	936	1404	1872	2340	2808	ATC

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



TA 5000

EMERG SAFE ALT 100 NM 2300

ETNS 1A (RWY 04)	- Climb straight ahead to 2500 ft - Continue as cleared by ATC CLIMBOUT RESTRICTION: Reach 2500 ft within 6 DME - INITIAL CLIMB: 4000 ft
ETNS 2B (RWY 22)	- Climb straight ahead to 2500 ft - Continue as cleared by ATC CLIMBOUT RESTRICTION: Reach 2500 ft within 6 DME - INITIAL CLIMB: 4000 ft

CHANGE: EDITORIAL (083/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

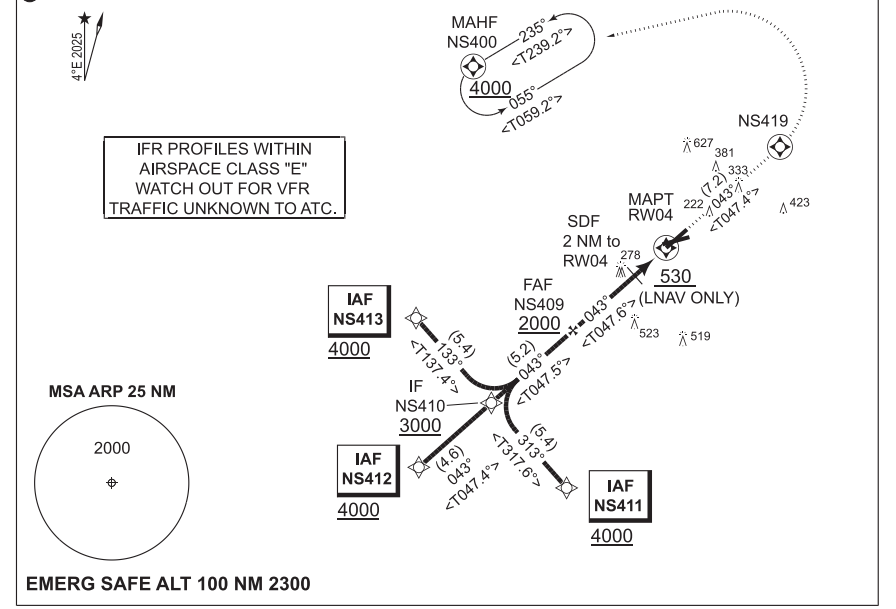
AD ELEV 74

RNP RWY 04
SCHLESWIG (ETNS)

BREMEN RADAR	SCHLESWIG RADAR	SCHLESWIG TOWER	SCHLESWIG RFIS
299.100 124.075	376.825 142.050	246.500 135.155	118.555

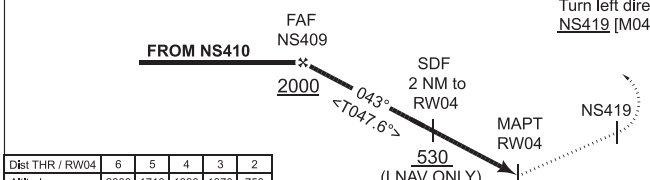
APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
043°	2000	3° / 5.2%	**See CAT**	64	900 M	8003

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



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

CATEGORY	A	B	C	D	E
LNAV	**440** - 1.0 376 (400-1.0/1.5)		**440** - 1.0 376 (400-1.0/1.7)		
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)	ⓓ **690** - 3.2 616 (700-3.2)	

MPS

CHANGE: NOTE (014/26)

ACC 19 FEB 2026

RNP RWY 04

54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)

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

CHANGE: REVISED CHART (161/25)
ACC 25 DEC 2025

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 74

TACAN RWY 04
SCHLESWIG (ETNS)

BREMEN RADAR	SCHLESWIG RADAR	SCHLESWIG TOWER	SCHLESWIG RFIS
299.100 124.075	376.825 142.050	246.500 135.155	118.555

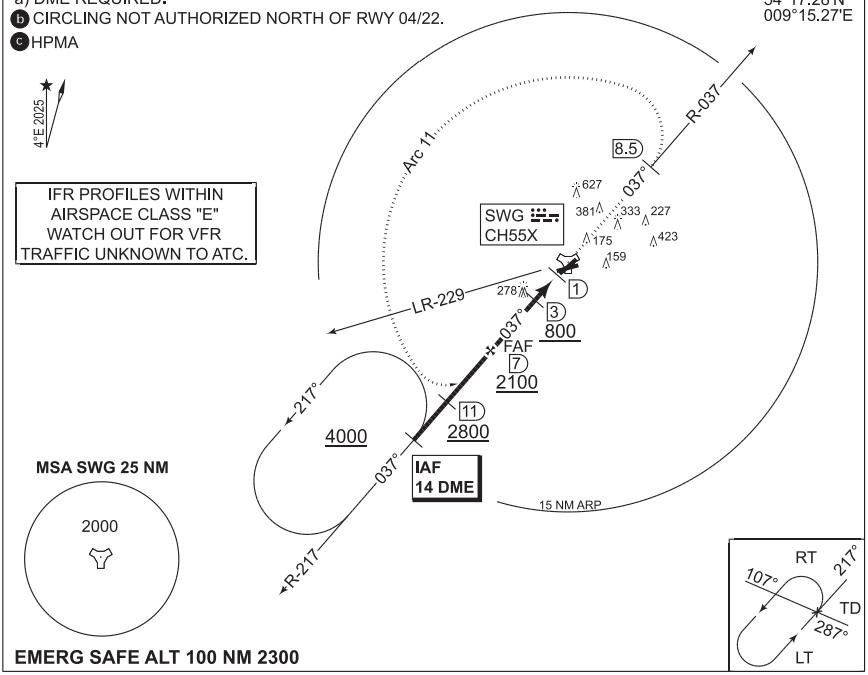
TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA/DA	THR ELEV	ALS-LENGTH	LDA
SWG CH55X 111.800	037°	2100	5.2%	**See CAT**	64	900 M	8003

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

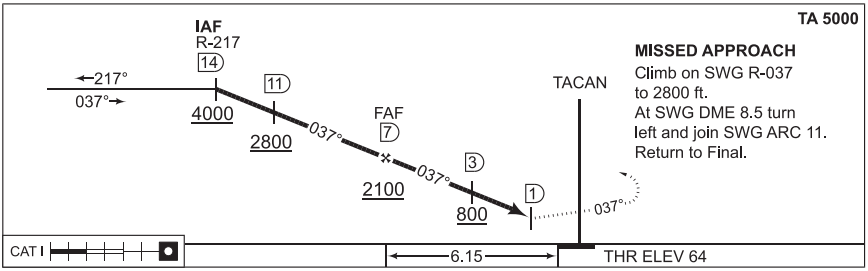
IAF
54°17.28'N
009°15.27'E

4°E 2025

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



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.

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)	

MIPS

CHANGE: IAF (014/26)

ACC 19 FEB 2026

TACAN RWY 04

54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)

TERPS
INSTRUMENT APPROACH CHART

AD ELEV 74

ARA/IAA RWY 04
SCHLESWIG (ETNS)

BREMEN RADAR	SCHLESWIG RADAR	SCHLESWIG TOWER	SCHLESWIG RFIS
299.100 124.075	376.825 142.050	246.500 135.155	118.555

APP COURSE	FAF ALT	MDA	TDZE	ALS-LENGTH	LDA
044°	2000	**440**	70	900 M	8003

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

4°E 2025

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

COPENHAGEN FIR
BREMEN FIR

IAF 'NORTH'
54°47.93'N
009°54.43'E

188°

'D'
54°38.56'N
009°50.93'E

THR 04
54°27.12'N
009°30.15'E

627
381
333
423

MAP
54°26.78'N
009°29.51'E

FAF
54°23.11'N
009°22.52'E

278°
0.5 NM
6 NM
044°

'F 04'
54°20.43'N
009°17.45'E

10 NM
210°

'A'
54°17.91'N
009°14.93'E

356°

IAF 'SOUTH'
54°11.78'N
009°14.85'E

'E'
54°13.86'N
009°22.63'E

MSA ARP 25 NM

2000

ARA REFLECTORS

24
04

EMERG SAFE ALT 100 NM 2300

TA 5000

IAF 'SOUTH' 5000 — 356° — 'E' 3000 — 210° — 'A' — 'F 04' 10 NM — 044° — 'D' 4000 — 188° — **IAF 'NORTH'** 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'.

6 NM 3000 | 5 NM 2000 | 4 NM 1680 | 3 NM 1360 | 2 NM 1040 | 1 NM 720 | 0.5 NM 540

DISTANCES IN NM FROM THR

CAT I

TDZE 70

CATEGORY	A	B	C	D	E
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)	

TERPS

CHANGE: REVISED CHART (161/25)

ACC 25 DEC 2025

PANS-OPS
INSTRUMENT APPROACH CHART

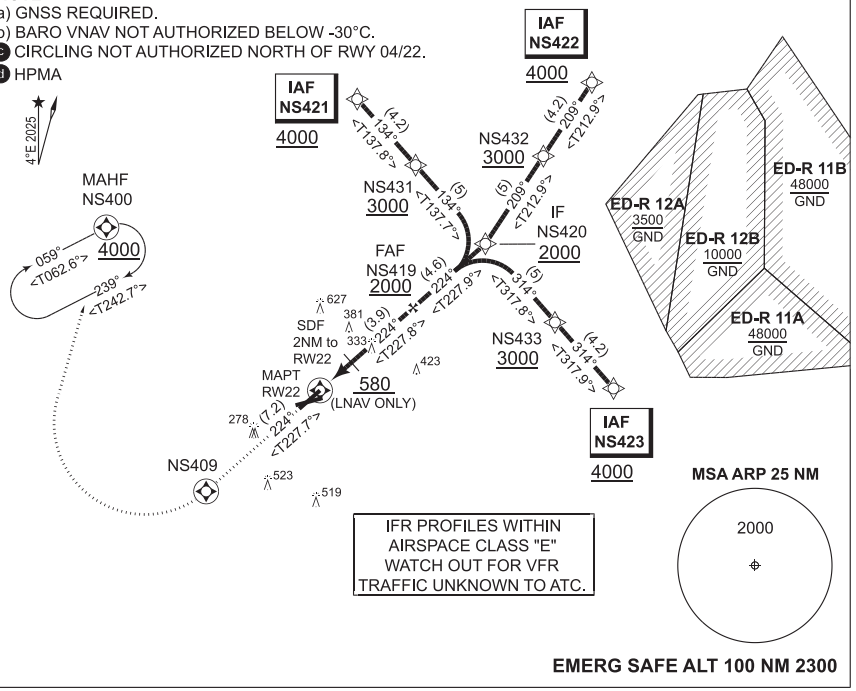
AD ELEV 74

RNP RWY 22
SCHLESWIG (ETNS)

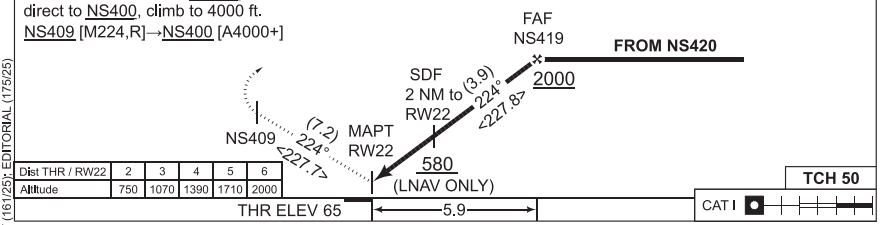
BREMEN RADAR	SCHLESWIG RADAR	SCHLESWIG TOWER	SCHLESWIG RFIS
299.100 124.075	376.825 142.050	246.500 135.155	118.555

APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
224°	2000	3° / 5.2%	**See CAT**	65	900 M	8003

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



MISSED APPROACH **TA 5000**
Climb on track 224° to NS409. Turn right
direct to NS400, climb to 4000 ft.
NS409 [M224,R]→NS400 [A4000+]



CATEGORY	A	B	C	D	E
LNAV	**470** - 1.2 405 (500-1.2/1.5)		**470** - 1.2 405 (500-1.2/1.9)		
LNAV/VNAV	**351** - 0.8 650 286 (300-0.8/1.4)	**364** - 0.8 650 299 (400-0.8/1.4)	**372** - 0.8 700 307 (400-0.8/1.4)	**382** - 0.8 700 317 (400-0.8/1.4)	**401** - 0.8 336 (400-0.8/1.5)
c 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)	

MIPS

CHANGE: REVISED CHART (161/25); EDITORIAL (175/25)

ACC 25 DEC 2025

RNP RWY 22

54°27.56'N
009°30.98'E

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

CHANGE: EDITORIAL (130/26)
ACC 11 JUN 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 74

TACAN RWY 22
SCHLESWIG (ETNS)

BREMEN RADAR	SCHLESWIG RADAR	SCHLESWIG TOWER	SCHLESWIG RFIS
299.100 124.075	376.825 142.050	246.500 135.155	118.555

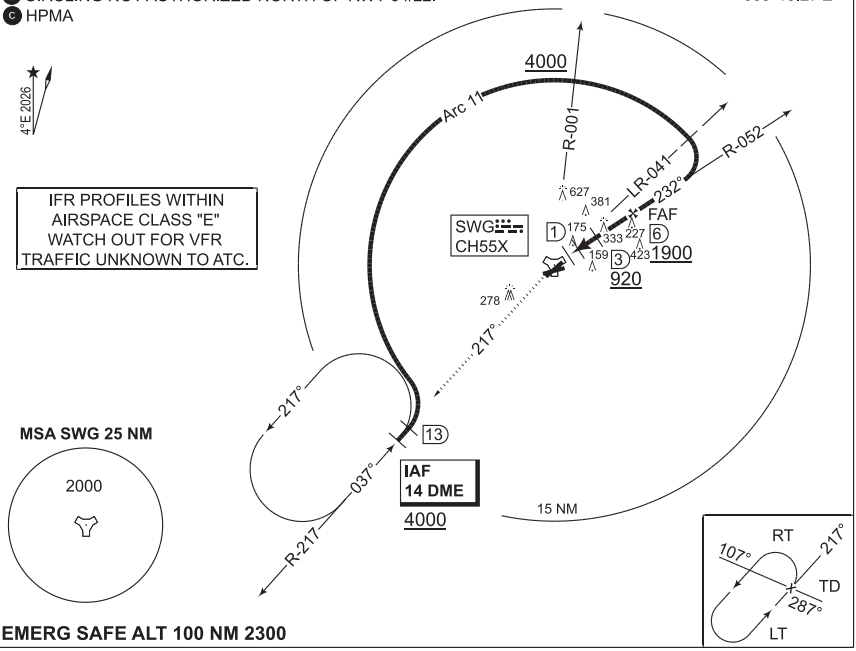
TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA/DA	THR ELEV	ALS-LENGTH	LDA
SWG CH55X 111.800	232°	1900	5.2%	**See CAT**	65	900 m	8003

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

IAF
54°17.28'N
009°15.27'E

4°E 2026

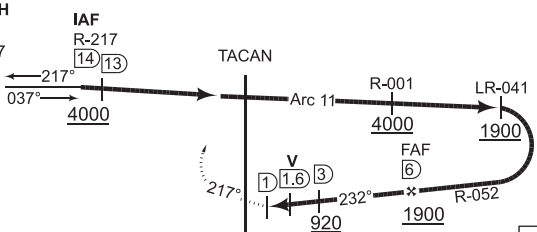
IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



EMERG SAFE ALT 100 NM 2300

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

TA 5000



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)	c **690** - 3.2 616 (700-3.2)	

MPS

CHANGE: HEIGHTS (186/26)

ACC 01 OCT 2026

TACAN RWY 22

54°27.56'N
009°30.98'E

SCHLESWIG (ETNS)

TERPS
INSTRUMENT APPROACH CHART

AD ELEV 74

ARA/IAA RWY 22
SCHLESWIG (ETNS)

BREMEN RADAR	SCHLESWIG RADAR	SCHLESWIG TOWER	SCHLESWIG RFIS
299.100 124.075	376.825 142.050	246.500 135.155	118.555

APP COURSE	FAF ALT	MDA	TDZE	ALS-LENGTH	LDA
224°	2000	**500**	69	900 M	8003

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

4°E 2025

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

IAF 'NORTH'
54°47.93'N
009°54.43'E

COPENHAGEN FIR

BREMEN FIR

188°

'D'
54°38.56'N
009°50.93'E

ED-R 12A
3500
GND

'F 22'
54°34.67'N
009°44.59'E

'C'
54°34.41'N
009°50.83'E

FAF
54°32.01'N
009°39.47'E

224°
10 NM
316°

MAP
54°28.34'N
009°32.45'E

627
381
333
423
6 NM

THR 22
54°28.00'N
009°31.82'E

0.5 NM

278

ED-R 12B
10000
GND

'B'
54°27.86'N
009°52.83'E

066°

MSA ARP 25 NM

2000

'A'
54°17.91'N
009°14.93'E

356°

IAF 'SOUTH'
54°11.78'N
009°14.85'E

ARA REFLECTORS

22

04

EMERG SAFE ALT 100 NM 2300

TA 5000

IAF 'SOUTH' 356° 'A' 5000 'B' 4000 316° 'C' 'F 22' 10 NM 'D' 4000 188° **IAF 'NORTH'** 5000

0.5 NM, 1 NM, 2 NM, 3 NM, 4 NM, 5 NM, 6 NM
720, 1040, 1360, 1680, 2000
1200
224°

DISTANCES IN NM FROM THR

MISSED APPROACH
At 0.5 NM prior THR RWY 22 climb straight ahead to 2000 ft. LT climbing to 3000 ft on hdg 066° and proceed via 'B'.

TDZE 69

CAT I

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)	

TERPS

CHANGE: REVISED CHART (161/25)

ACC 25 DEC 2025

PANS-OPS
INSTRUMENT APPROACH CHART

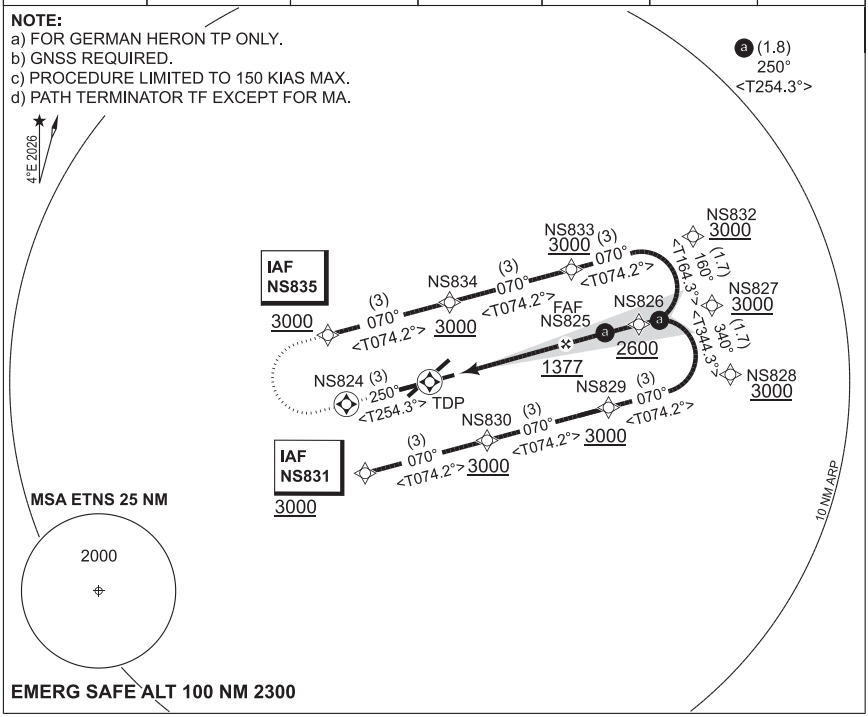
AD ELEV 74

GHTP RWY 25
SCHLESWIG (ETNS)

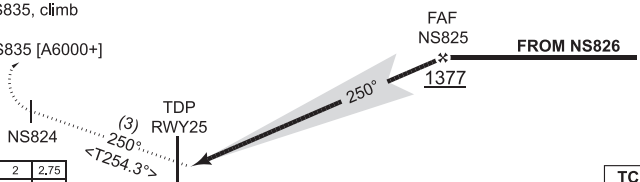
BREMEN RADAR	SCHLESWIG RADAR	SCHLESWIG TOWER	SCHLESWIG RFIS
299.100 124.075	376.825 142.050	246.500 135.155	118.555

GS	APP COURSE	GS INTCP ALT	OCA	THR ELEV	ALS	LDA
3.7°	250°	1377	180	72	NIL	8070

NOTE:
a) FOR GERMAN HERON TP ONLY.
b) GNSS REQUIRED.
c) PROCEDURE LIMITED TO 150 KIAS MAX.
d) PATH TERMINATOR TF EXCEPT FOR MA.



MISSED APPROACH **TA 5000**
Climb on course 250° to NS824.
Turn right direct to NS835, climb to 6000 ft.
NS824 [M250,R]→NS835 [A6000+]



DIST THR / RW25	NM	1	2	2.75
Altitude	ft	694	1084	1377

TCH 232
THR ELEV 72 — 2.8
NO LIGHTS

CATEGORY	GHTP
GHTP PA OCA	**180** - 0.8 550 108 (200-0.8/1.2)

CHANGE: NEW CHART (189/26)
MIPS
ACC 01 OCT 2026

GHTP RWY 25 FROM NS831:

	CODING	DISPLAY
NS831 (IAF)	54 25 16.79 N 009 28 27.26 E	54 25.279 N 009 28.454 E
NS830	54 26 06.01 N 009 33 23.66 E	54 26.010 N 009 33.394 E
NS829	54 26 55.03 N 009 38 20.26 E	54 26.917 N 009 38.337 E
NS828	54 27 43.84 N 009 43 17.05 E	54 27.730 N 009 43.284 E
NS827 (IF)	54 29 21.86 N 009 42 29.66 E	54 29.364 N 009 42.494 E
NS826	54 28 52.80 N 009 39 31.92 E	54 28.880 N 009 39.532 E
NS825 (FAF)	54 28 23.58 N 009 36 33.72 E	54 28.393 N 009 36.562 E
TDP	54 27 28.98 N 009 31 02.82 E	54 27.483 N 009 31.047 E
NS824 (MATF)	54 26 54.80 N 009 27 39.29 E	54 26.913 N 009 27.655 E
NS835	54 28 32.81 N 009 26 51.25 E	54 28.547 N 009 26.854 E

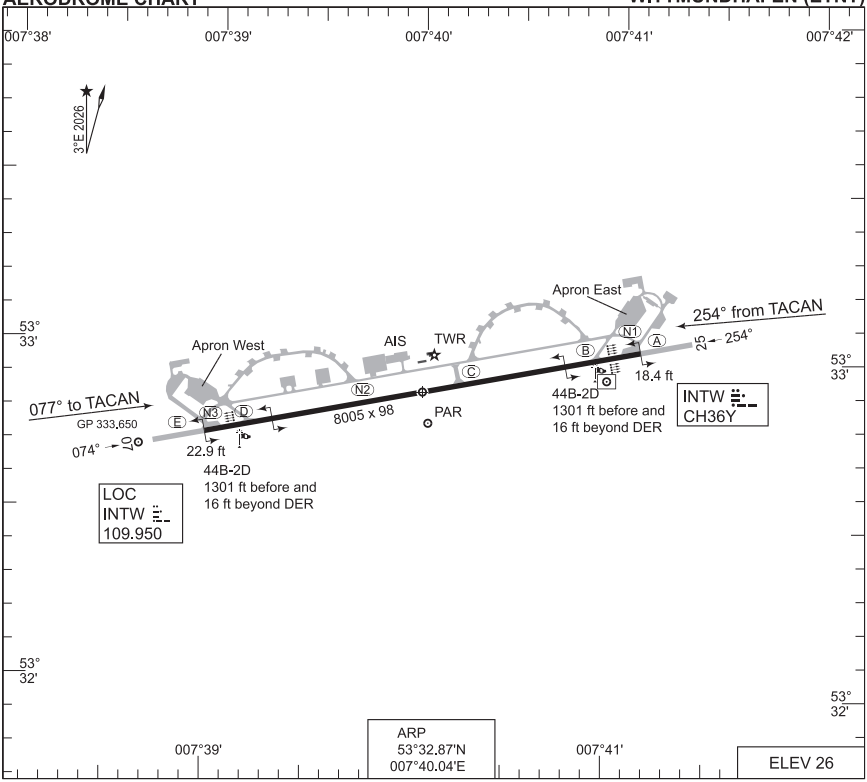
GHTP RWY 25 FROM NS835:

	CODING	DISPLAY
NS835 (IAF)	54 28 32.81 N 009 26 51.25 E	54 28.547 N 009 26.854 E
NS834	54 29 22.03 N 009 31 48.04 E	54 29.367 N 009 31.800 E
NS833	54 30 11.05 N 009 36 45.03 E	54 30.184 N 009 36.750 E
NS832	54 30 59.86 N 009 41 42.22 E	54 30.998 N 009 41.704 E
NS827 (IF)	54 29 21.86 N 009 42 29.66 E	54 29.364 N 009 42.494 E
NS826	54 28 52.80 N 009 39 31.92 E	54 28.880 N 009 39.532 E
NS825 (FAF)	54 28 23.58 N 009 36 33.72 E	54 28.393 N 009 36.562 E
TDP	54 27 28.98 N 009 31 02.82 E	54 27.483 N 009 31.047 E
NS824 (MATF)	54 26 54.80 N 009 27 39.29 E	54 26.913 N 009 27.655 E
NS835	54 28 32.81 N 009 26 51.25 E	54 28.547 N 009 26.854 E

Threshold Coordinates

RWY 25	54 27 38.62 N 009 32 01.77 E	54 27.644 N 009 32.029 E

CHANGE: NEW CHART (189/26)
ACC 01 OCT 2026



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	07	3.0°	32		584	ABCD	MIPS	223 - 0.8/550 200 (200-0.8/1.2)
	PANS-OPS	25	3.0°	32		590	ABCD	MIPS	219 - 0.8/550 200 (200-0.8/1.2)

CHANGE: VAR (015/26)

ACC 19 FEB 2026

PANS-OPS
INSTRUMENT DEPARTURE CHART

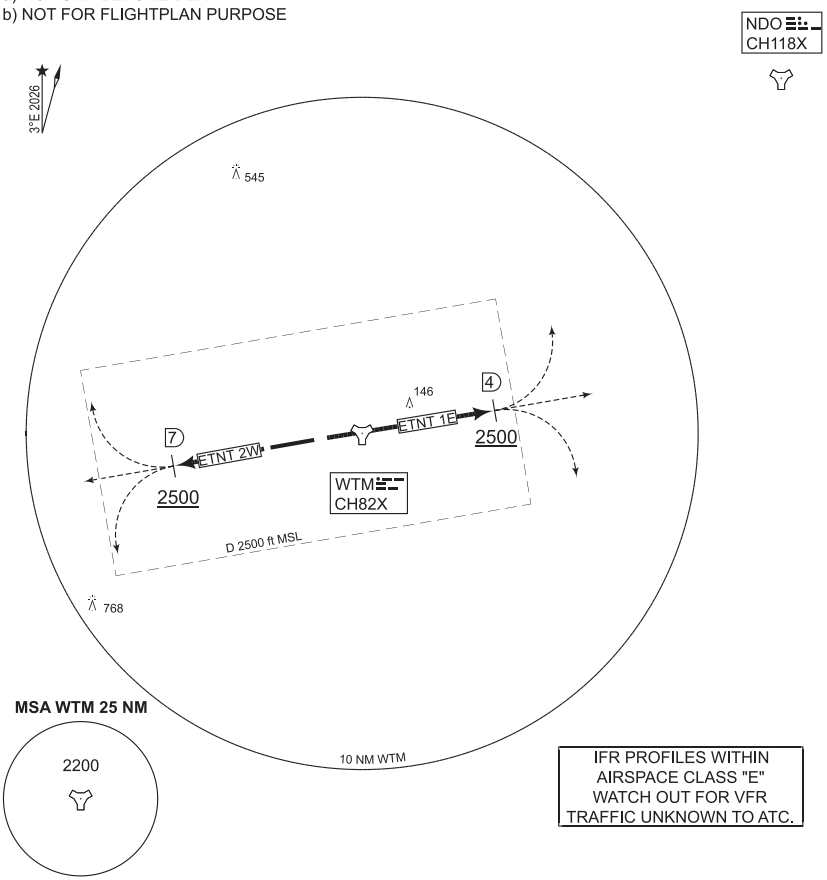
AD ELEV 26

ETNT 1E - 2W
WITTMUNDHAFEN (ETNT)

WITTMUND TOWER	WITTMUND RADAR	BREMEN RADAR
247.950 118.730	298.250 131.015	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



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

CHANGE: EDITORIAL (080/26)

ACC 16 APR 2026

PANS-OPS
INSTRUMENT APPROACH CHART

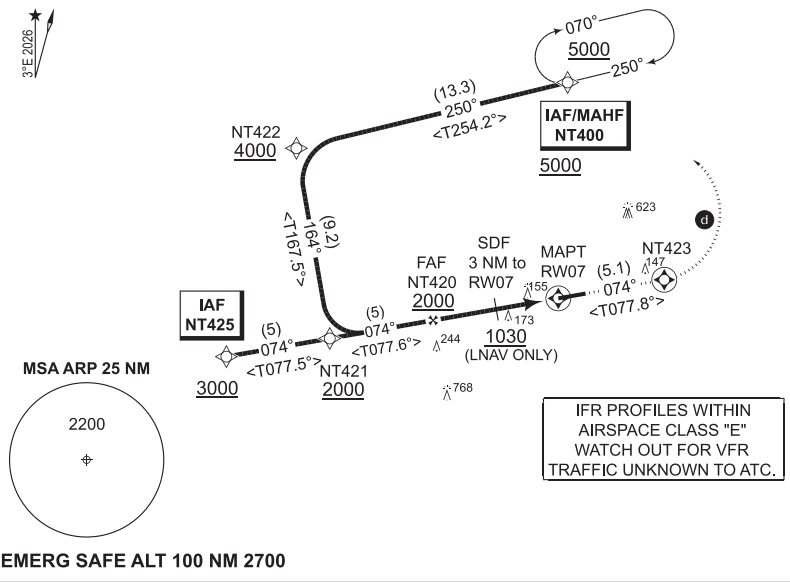
AD ELEV 26

RNP RWY 07
WITTMUNDHAFEN (ETNT)

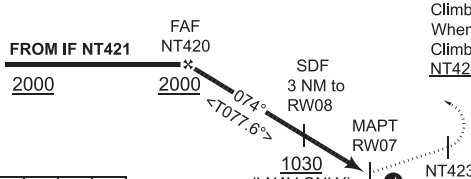
BREMEN RADAR	WITTMUND RADAR	WITTMUND TOWER
240.600 124.800	298.250 131.015	247.950 118.730 122.100

APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
074°	2000	3° / 5.2%	**See CAT**	23	900 m	8005

NOTE:
a) GNSS REQUIRED
b) BARO-VNAV NOT AUTHORIZED BELOW -30°C.
c CIRCLING NOT AUTHORIZED SOUTH OF RWY 07/25.
d MISSED APPROACH LIMITED TO 230 KIAS MAX.



TA 5000



MISSED 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

6.0 — THR ELEV 23

TCH 50

CAT I

	CATEGORY	A	B	C	D	HPMA
MIPS	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**
	c 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)

CHANGE: CIRCLING (154/26)

ACC 06 AUG 2026

RNP RWY 07

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)

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

CHANGE: EDITORIAL (154/26)
ACC 06 AUG 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 26

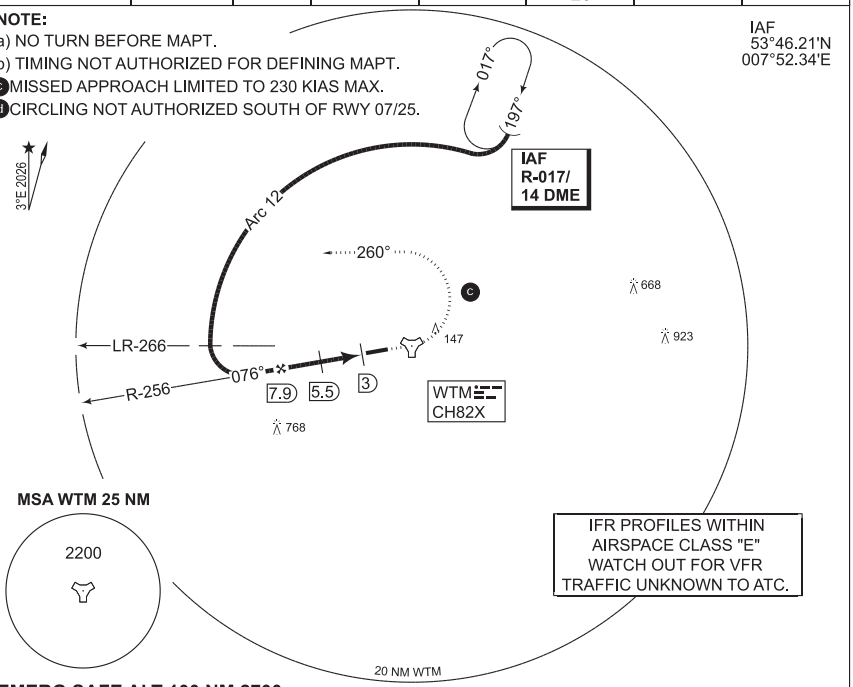
TACAN RWY 07
WITTMUNDHAFEN (ETNT)

BREMEN RADAR	WITTMUND RADAR	WITTMUND TOWER
240.600 124.800	298.250 131.015	247.950 118.730 122.100

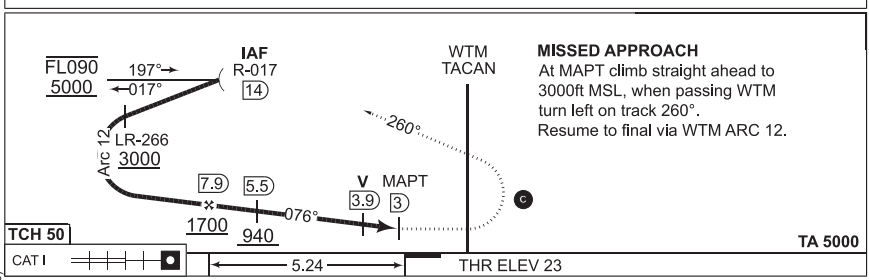
TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
WTM CH82X	076°	1700	5.2%	**410**	23	900 m	8005

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



EMERG SAFE ALT 100 NM 2700



CATEGORY	A	B	C	D	HPMA
TACAN 07	**410** - 1.1 386 (400-1.1/1.5)		**410** - 1.1 386 (400-1.1/1.8)		**NOT AUTHORIZED**
MIPS 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 07	**223** - 0.8 200 (200-0.8/1.2)				**NOT AUTHORIZED**

CHANGE: CIRCLING (154/26)

ACC 06 AUG 2026

TACAN RWY 07

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)

PANS-OPS
INSTRUMENT APPROACH CHART

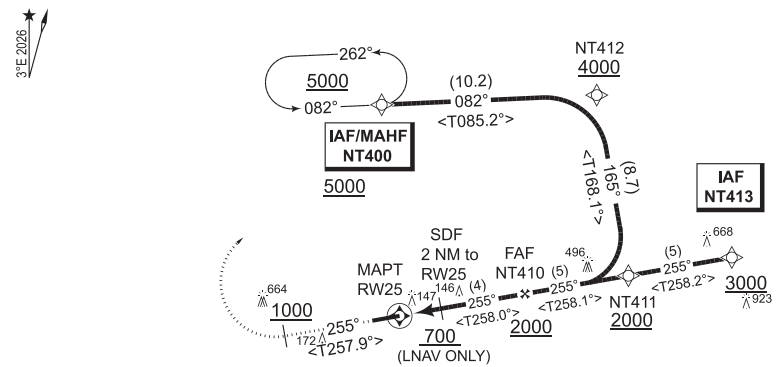
AD ELEV 26

RNP RWY 25
WITTMUNDHAFEN (ETNT)

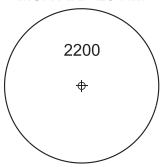
BREMEN RADAR	WITTMUND RADAR	WITTMUND TOWER
240.600 124.800	298.250 131.015	247.950 118.730 122.100

APP COURSE	FAF ALT	GS	DA / MDA	THR ELEV	ALS-LENGTH	LDA
255°	2000	3° / 5.2%	**See CAT**	18	900 m	8005

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



MSA ARP 25 NM

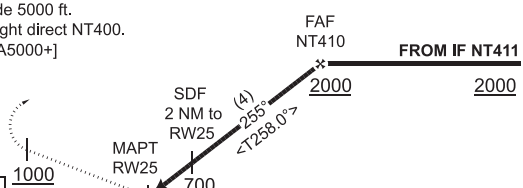


IFR PROFILES WITHIN
AIRSPACE CLASS "E"
WATCH OUT FOR VFR
TRAFFIC UNKNOWN TO ATC.

EMERG SAFE ALT 100 NM 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+]



Dist THR	2	3	4	5	6
Altitude	710	1020	1340	1660	2000

THR ELEV 18 — 6.0

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**
C 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)

MIPS

CHANGE: CIRCLING (154/26)

ACC 06 AUG 2026

RNP RWY 25

53°32.87'N
007°40.04'E

WITTMUNDHAFEN (ETNT)

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

CHANGE: EDITORIAL (154/26)
ACC 06 AUG 2026

PANS-OPS
INSTRUMENT APPROACH CHART

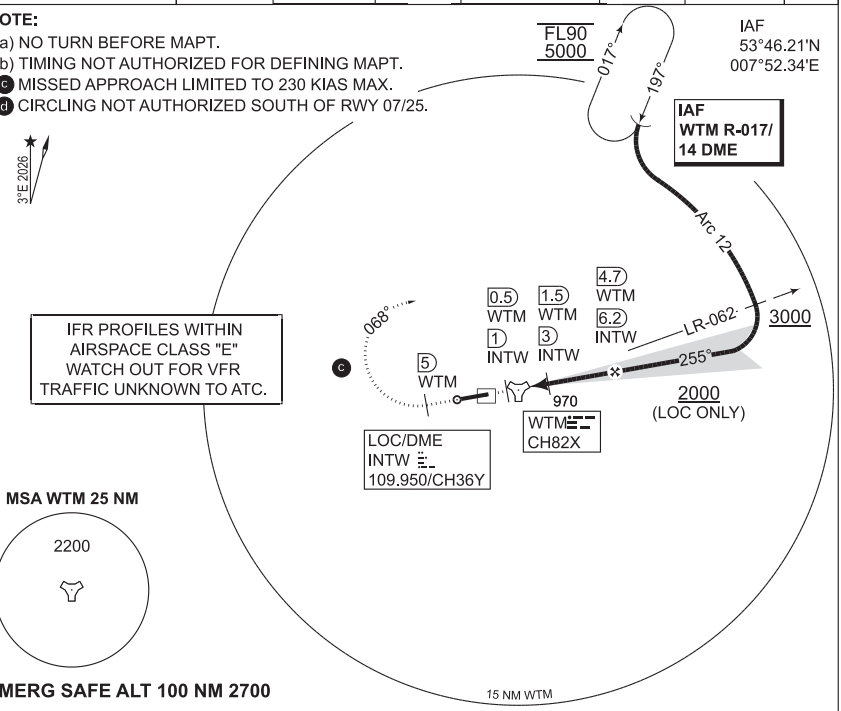
AD ELEV 26

ILS or LOC RWY 25
WITTMUNDHAFEN (ETNT)

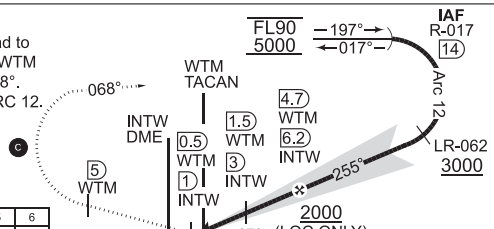
BREMEN RADAR	WITTMUND RADAR	WITTMUND TOWER
240.600 124.800	298.250 131.015	247.950 118.730 122.100

TACAN / LOCALIZER	APP COURSE	GS INTCP ALT	DA	DESCENT GR	THR ELEV	ALS-LENGTH	LDA
CH 82X / INTW 109.95	255°	2000	**219**	3.0°/ 5.2%	18	900 m	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 straigth ahead to 3000 ft MSL, when passing WTM 5 DME turn right on track 068°. Resume to final via WTM ARC 12.



CATEGORY	A	B	C	D	HPMA
MPS ILS 25	**219** - 0.8 550 200 (200-0.8/1.2)				NOT AUTHORIZED
MPS LOC 25	**490** - 1.5 471 (500-1.5)		**490** - 1.5 471 (500-1.5/2.2)		NOT AUTHORIZED
MPS 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)

CHANGE: CIRCLING (154/26)

ACC 06 AUG 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 26

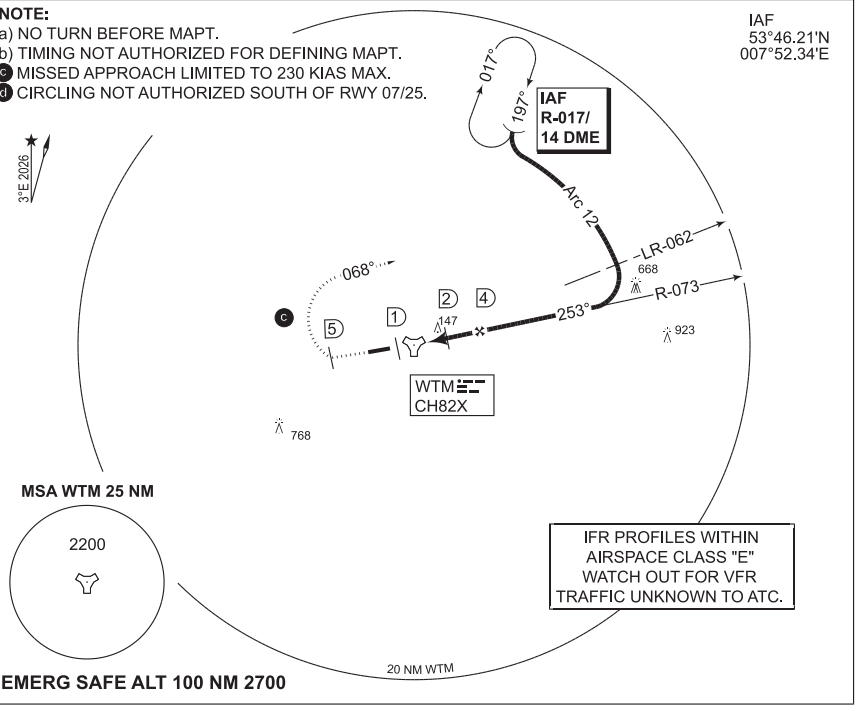
TACAN RWY 25
WITTMUNDHAFEN (ETNT)

BREMEN RADAR	WITTMUND RADAR	WITTMUND TOWER
240.600 124.800	298.250 131.015	247.950 118.730 122.100

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
WTM CH82X	253°	1800	5.2%	**400**	18	900 m	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

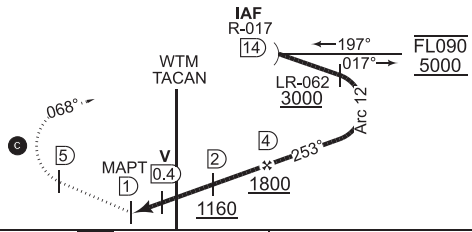


EMERG SAFE ALT 100 NM 2700

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



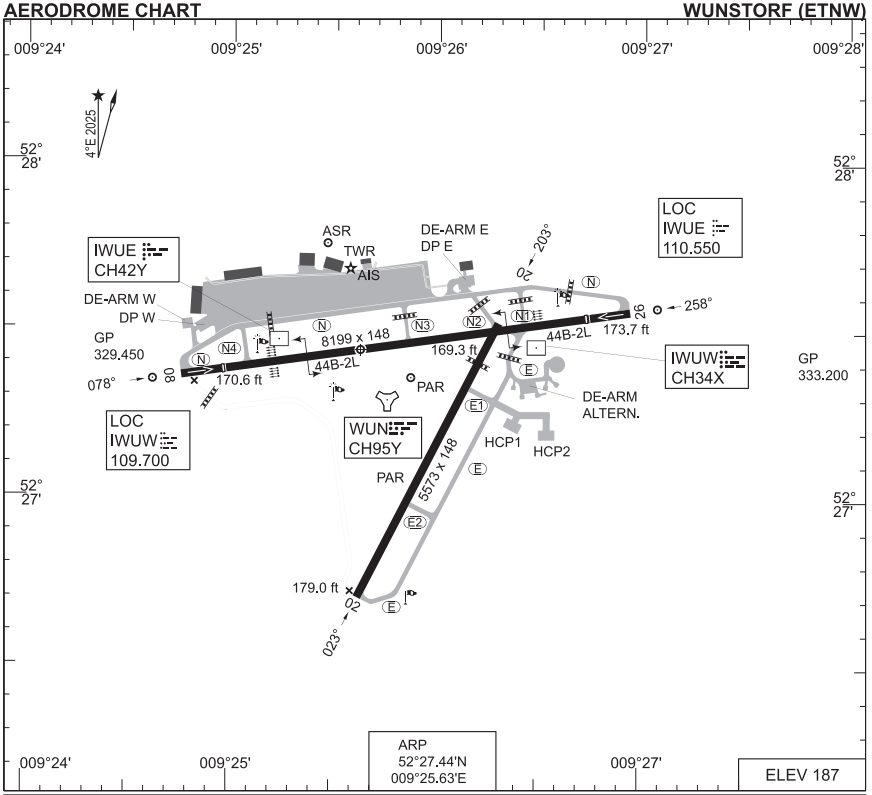
TCH 50

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**
MIPS 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**

CHANGE: CIRCLING (154/26)

ACC 06 AUG 2026



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						CDE		380 - 1.2 200 (200-1.2)
		08	3.0°	54			ABCD	MIPS	371 - 0.8 200 (200-0.8/1.2)
	PANS-OPS	26	3.0°	50			ABCDE	MIPS	374 - 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)

CHANGE: REVISED CHART (163/25)

ACC 25 DEC 2025

PANS-OPS
INSTRUMENT DEPARTURE CHART

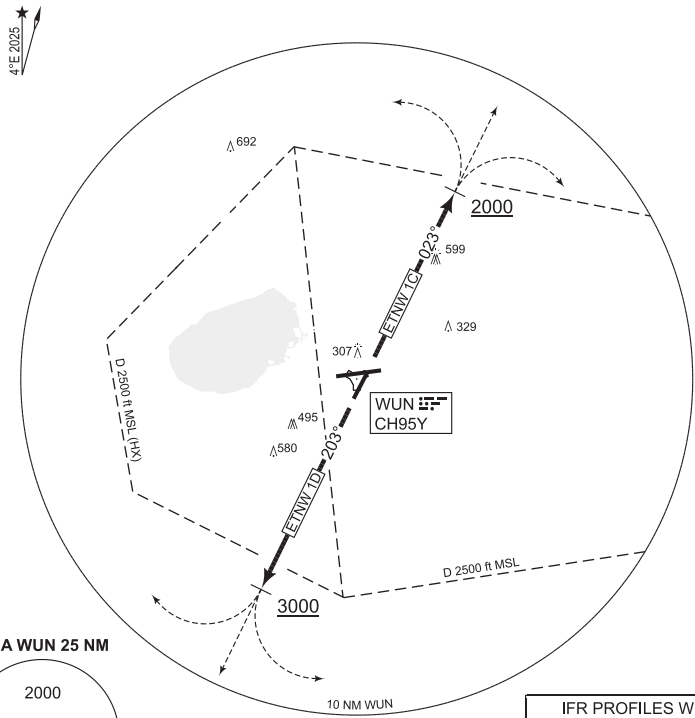
AD ELEV 187

ETNW 1C - 1D
WUNSTORF (ETNW)

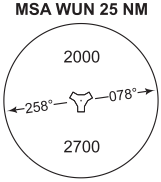
WUNSTORF TOWER	WUNSTORF RADAR	BREMEN RADAR
356.100 132.055	389.400 124.655 123.300	259.725 119.490

NOTE:
a) NO TURN BEFORE DER.

RWY	from - to	60	120	180	240	300	360	Reason
20	DER - 3000 ft	219	438	657	876	1095	1314	OBST



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

ETNW 1C (RWY 02)	- Climb on track 023° at or above 2000 ft - Continue as cleared by ATC
ETNW 1D (RWY 20)	- Climb on track 203° at or above 3000 ft - Continue as cleared by ATC

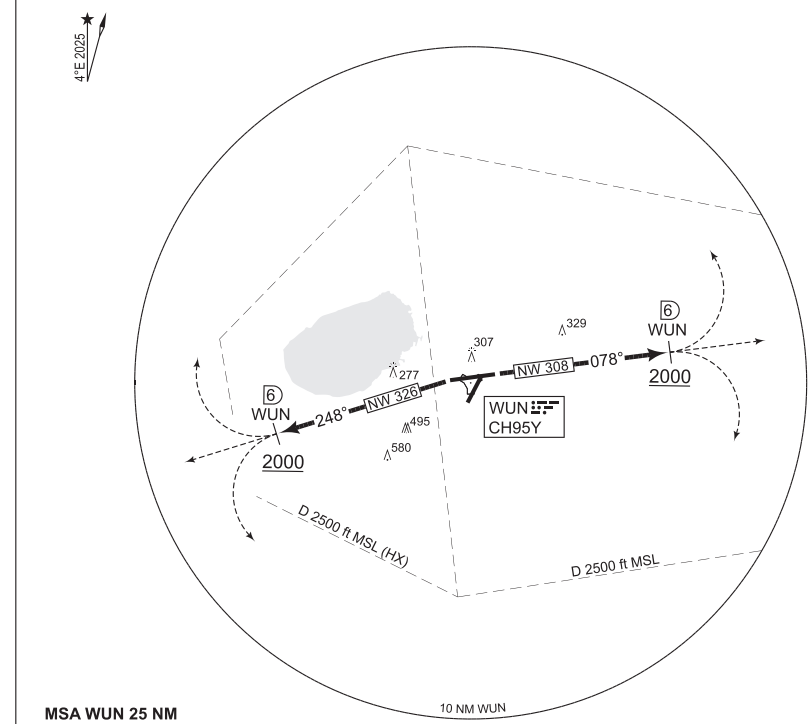
CHANGE: REVISED CHART (187/26)

ACC 01 OCT 2026

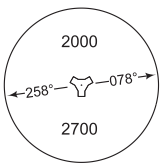
WUNSTORF TOWER	WUNSTORF RADAR	BREMEN RADAR
356.100 132.055	389.400 124.655 123.300	259.725 119.490

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

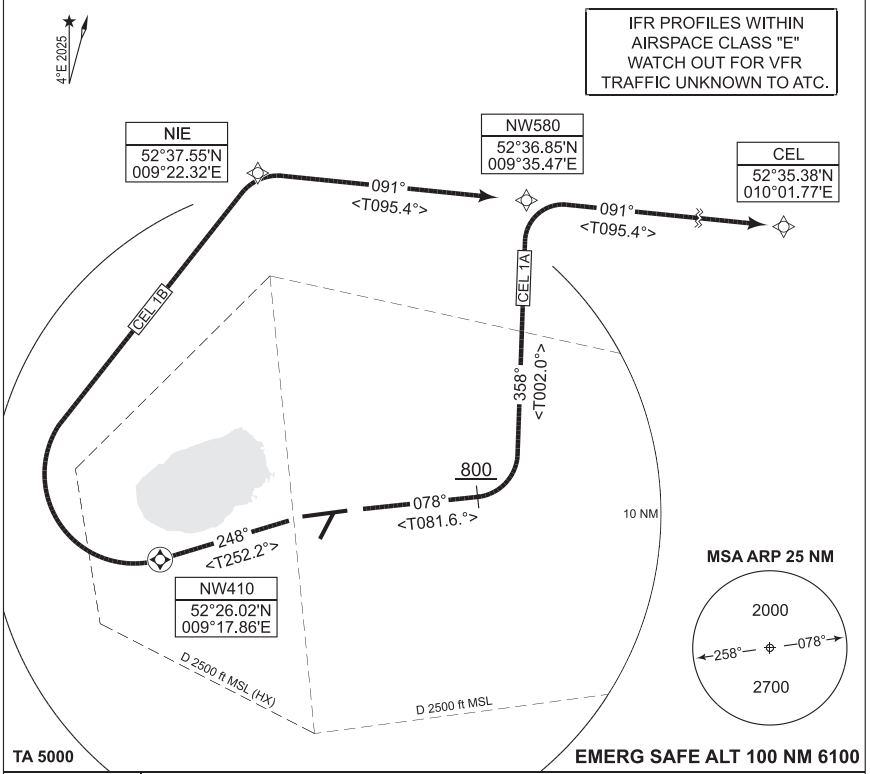
NW 308 (RWY 08)	- Climb on track 078° to 2000 ft - Continue as cleared by ATC CLIMB RESTRICTION: Reach 2000 ft within WUN/ 6 DME
NW 326 (RWY 26)	- Climb on track 248° to 2000 ft - Continue as cleared by ATC CLIMB RESTRICTION: Reach 2000 ft within WUN/ 6 DME

CHANGE: EDITORIAL (079/26)
ACC 16 APR 2026

WUNSTORF TOWER	WUNSTORF RADAR	BREMEN RADAR
356.100 132.055	389.400 124.655 123.300	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.



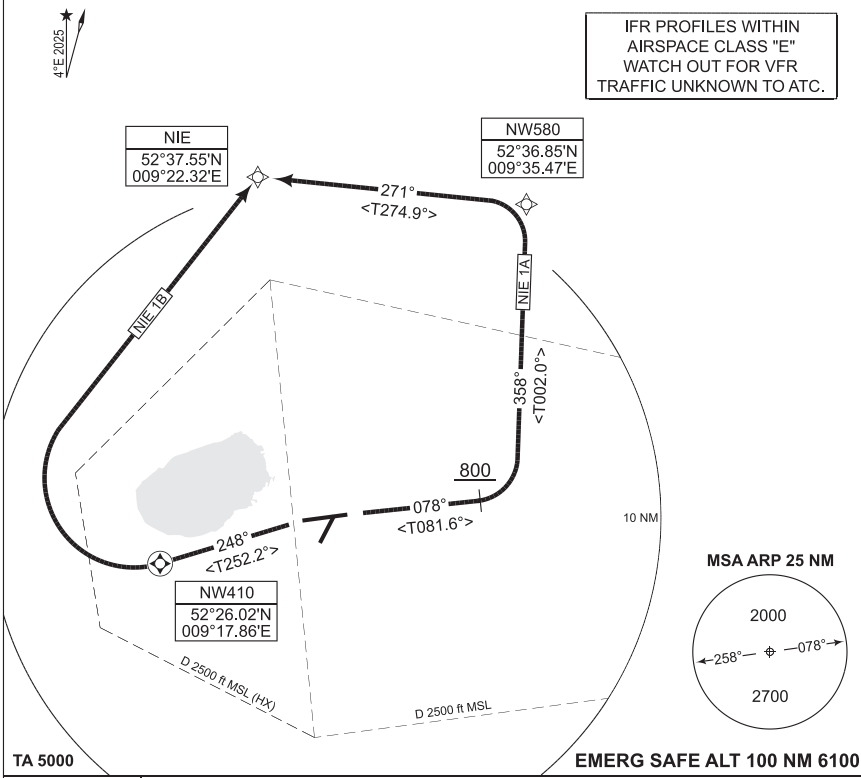
CEL 1A (RWY 08)	- Climb on track 078° at or above 800 ft - To NW580 on course 358° - To CEL at 220 KIAS MAX - Initial climb 4000 ft **GPS/FMS RNAV: [M078; A800+;L] - NW580 [M358;R] - CEL [K220-]**
CEL 1B (RWY 26)	- To NW410 on course 248° - Direct to NIE - To CEL at 250 KIAS MAX - Initial climb 4000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

CHANGE: EDITORIAL (186/25)

ACC 19 FEB 2026

WUNSTORF TOWER	WUNSTORF RADAR	BREMEN RADAR
356.100 132.055	389.400 124.655 123.300	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.



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-]**

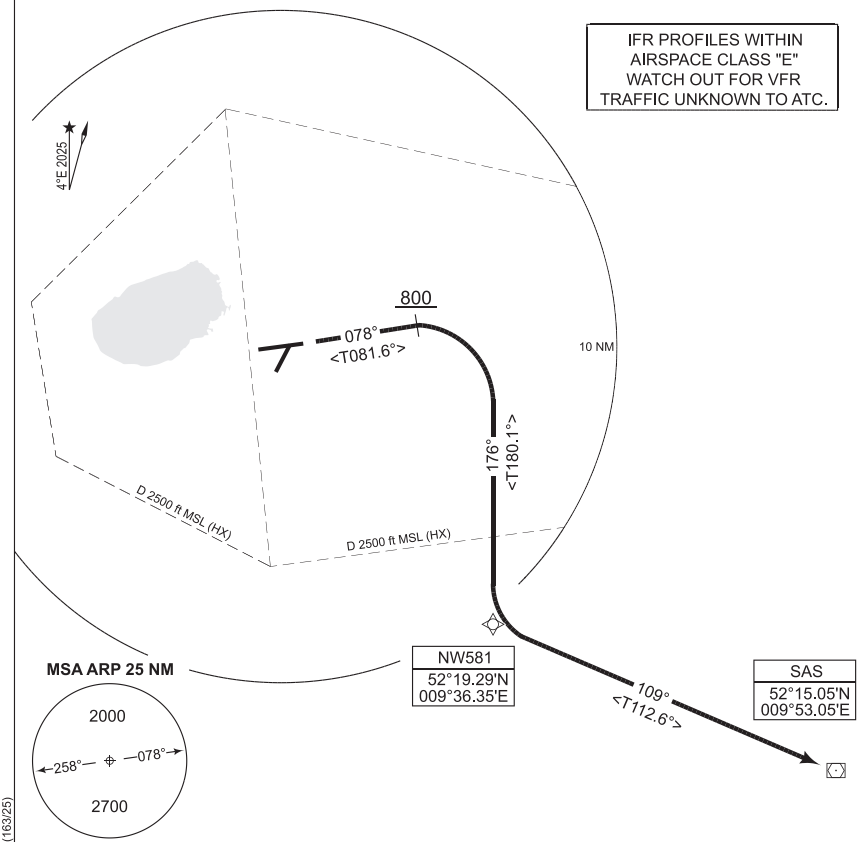
CHANGE: EDITORIAL (186/25)

ACC 19 FEB 2026

WUNSTORF TOWER	WUNSTORF RADAR	BREMEN RADAR
356.100 132.055	389.400 124.655 123.300	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.

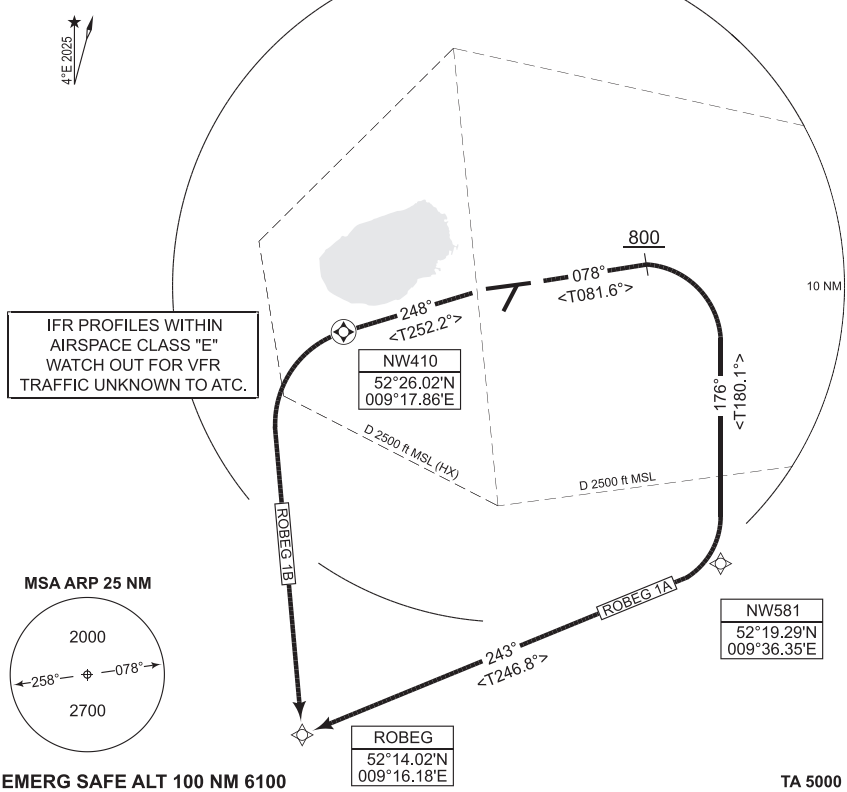


EMERG SAFE ALT 100 NM 6100 **TA 5000**

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**

WUNSTORF TOWER	WUNSTORF RADAR	BREMEN RADAR
356.100 132.055	389.400 124.655 123.300	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.



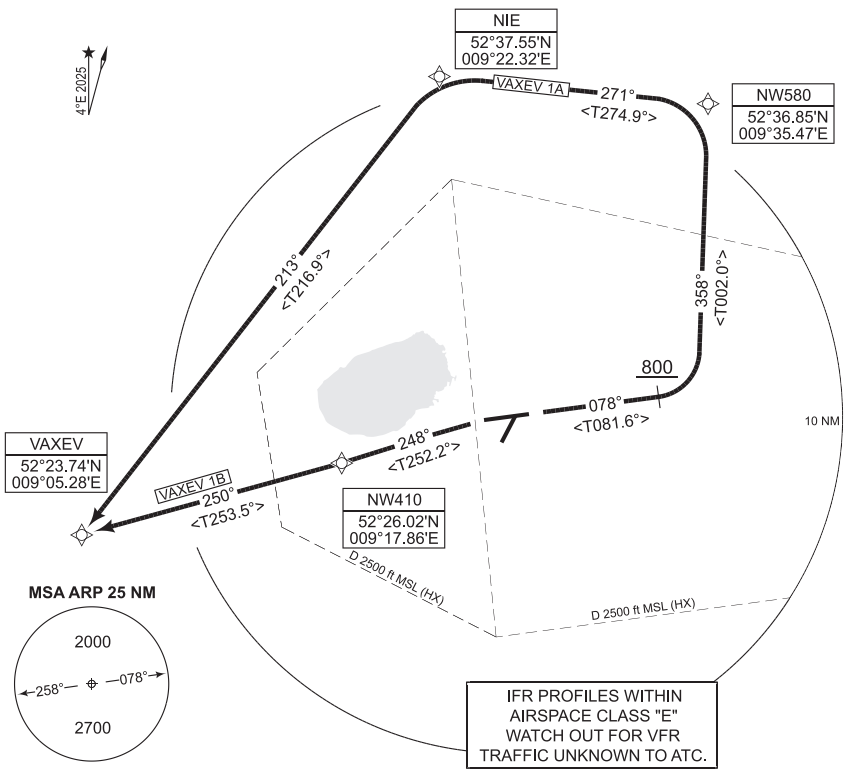
ROBEG 1A (RWY 08)	- Climb on track 078° at or above 800 ft - To NW581 on course 176° at 220 KIAS MAX - To ROBEG - Initial climb 4000 ft **GPS/FMS RNAV: [M078; A800+;R] - NW581 [M176;K220-;R] - ROBEG**
ROBEG 1B (RWY 26)	- To NW410 on course 248° - Direct to ROBEG at 250 KIAS MAX - Initial climb 4000 ft **GPS/FMS RNAV: NW410 [M248;L] - ROBEG [K250]**

CHANGE: EDITORIAL (186/25)

ACC 19 FEB 2026

WUNSTORF TOWER	WUNSTORF RADAR	BREMEN RADAR
356.100 132.055	389.400 124.655 123.300	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-]**

CHANGE: EDITORIAL (186/25)
ACC 19 FEB 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 187

ILS Z or LOC RWY 08
WUNSTORF (ETNW)

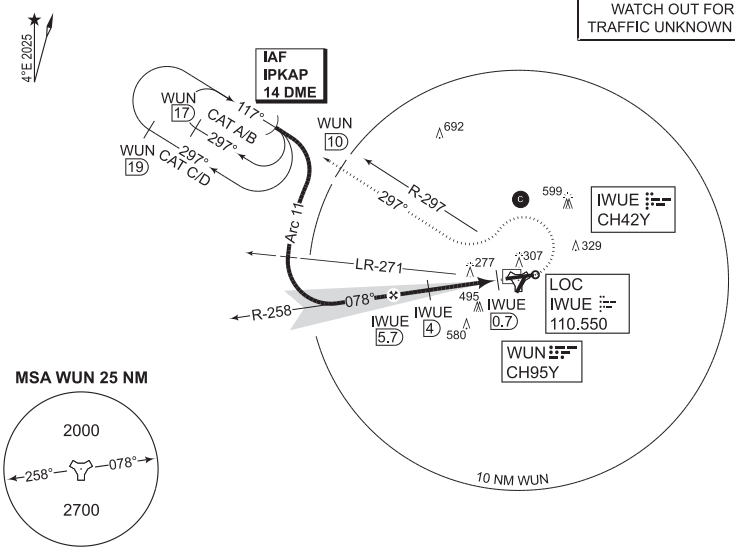
BREMEN RADAR	WUNSTORF RADAR	WUNSTORF TOWER
259.725 119.490	389.400 124.655 123.300	356.100 132.055

TACAN/LOC	APP COURSE	GS INTCP ALT	GS	DA/MDA	TDZE	ALS-LENGTH	LDA
WUN CH95Y/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.

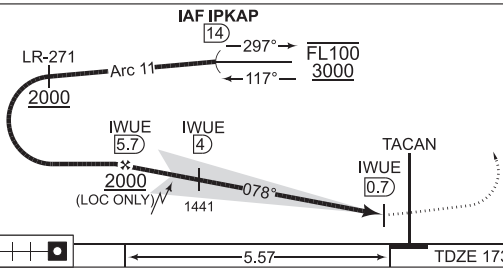
IAF IPKAP
52°34.37'N
009°06.62'E

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



MSA WUN 25 NM

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
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)

MIPS

CHANGE: REVISED CHART (163/25)

ACC 25 DEC 2025

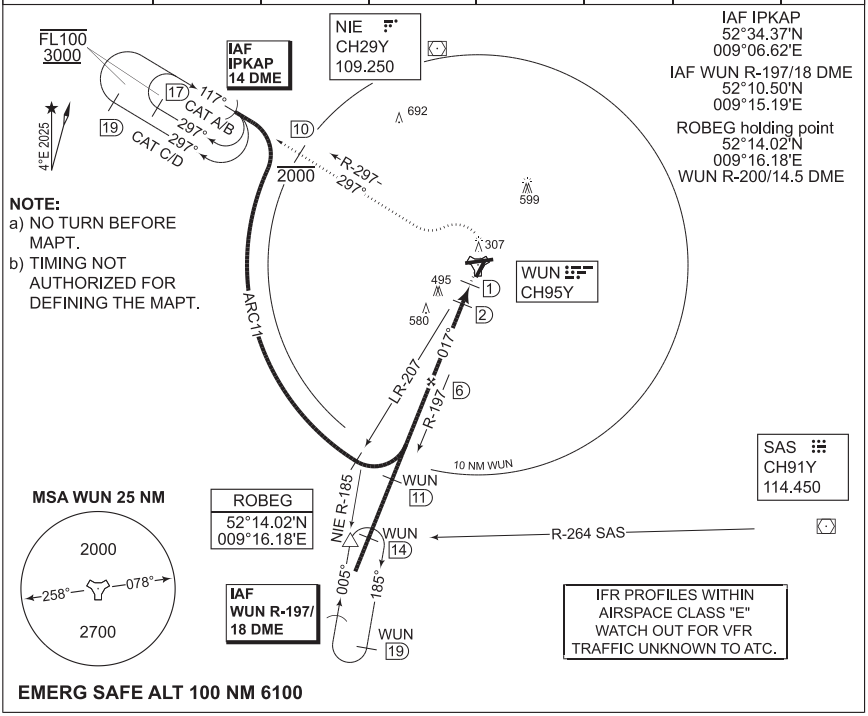
PANS-OPS
INSTRUMENT APPROACH CHART

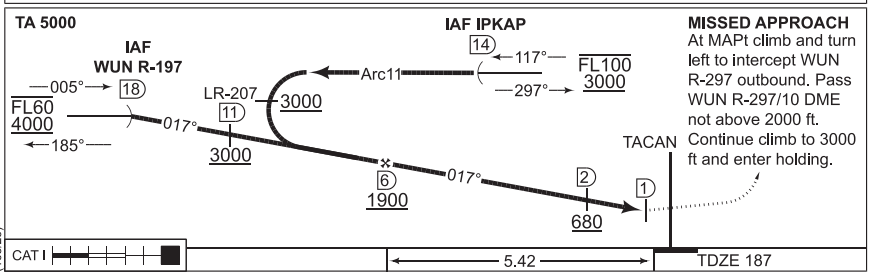
AD ELEV 187

TACAN RWY 02
WUNSTORF (ETNW)

BREMEN RADAR	WUNSTORF RADAR	WUNSTORF TOWER
259.725 119.490	389.400 124.655 123.300	356.100 132.055

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
WUN CH95Y	017°	1900	5.2%	**560**	187	774 M	5573





	CATEGORY	A	B	C	D
MIPS	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°			

CHANGE: REVISED CHART (163/25)

ACC 25 DEC 2025

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)

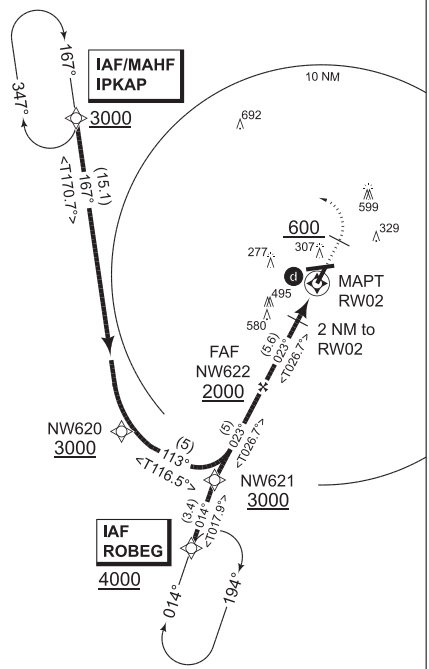
BREMEN RADAR	WUNSTORF RADAR	WUNSTORF TOWER
259.725 119.490	389.400 124.655 123.300	356.100 132.055

APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
023°	2000	3.0° / 5.2%	**See CAT**	179	774 M	5573

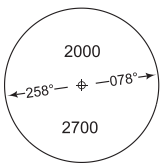
NOTE:
a) NAVIGATION SENSOR: GNSS ONLY.
b) NAVIGATION SPECIFICATION:
RNAV 1 UNTIL NW621, RNP APCH THEREAFTER.
c BARO-VNAV NOT AUTHORIZED BELOW -30°C.
d NO TURN BEFORE MAPT.

4°E 2025

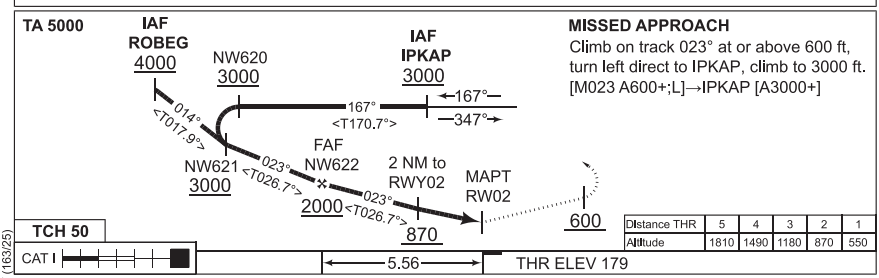
IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



MSA ARP 25 NM



EMERG SAFE ALT 100 NM 6100



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+]

MIPS	CATEGORY	A	B	C	D
	LNAV	**590** - 1.2 411 (500-1.2/1.5)		**590** - 1.2 411 (500-1.2/1.9)	
	LNAV/VNAV c	**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)

CHANGE: REVISED CHART (163/25)

ACC 25 DEC 2025

RNP RWY 02

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

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

CHANGE: REVISED CHART (163/25)
ACC 25 DEC 2025

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 187

TACAN RWY 08
WUNSTORF (ETNW)

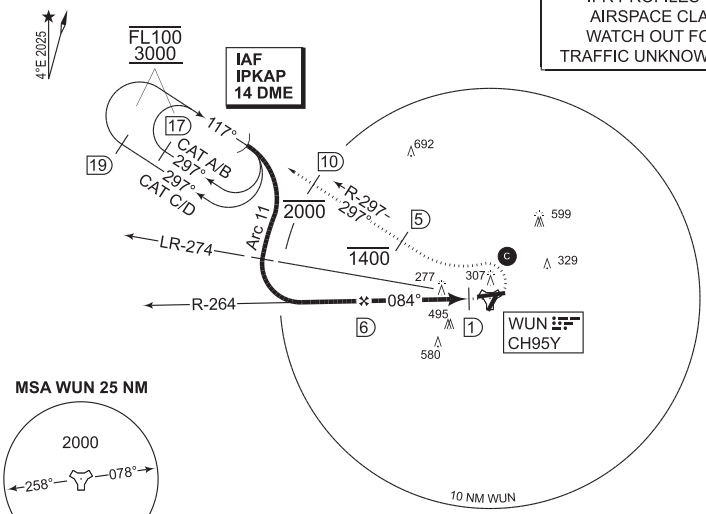
BREMEN RADAR	WUNSTORF RADAR	WUNSTORF TOWER
259.725 119.490	389.400 124.655 123.300	356.100 132.055

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
WUN CH95Y	084°	1900	5.2%	**550**	173	900 M	7385

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

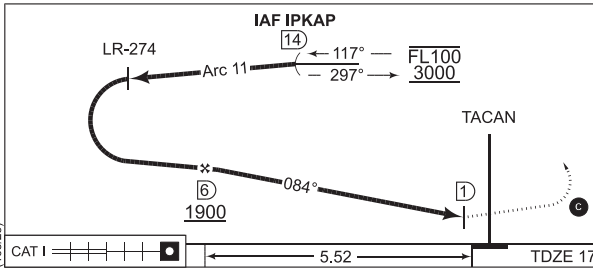
IAF
52°34.37'N
009°06.62'E

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



MSA WUN 25 NM

EMERG SAFE ALT 100 NM 6100



TA 5000

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.

	CATEGORY	A	B	C	D	E
MIPS	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**

CHANGE: REVISED CHART (163/25)

ACC 25 DEC 2025

TACAN RWY 08

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 187

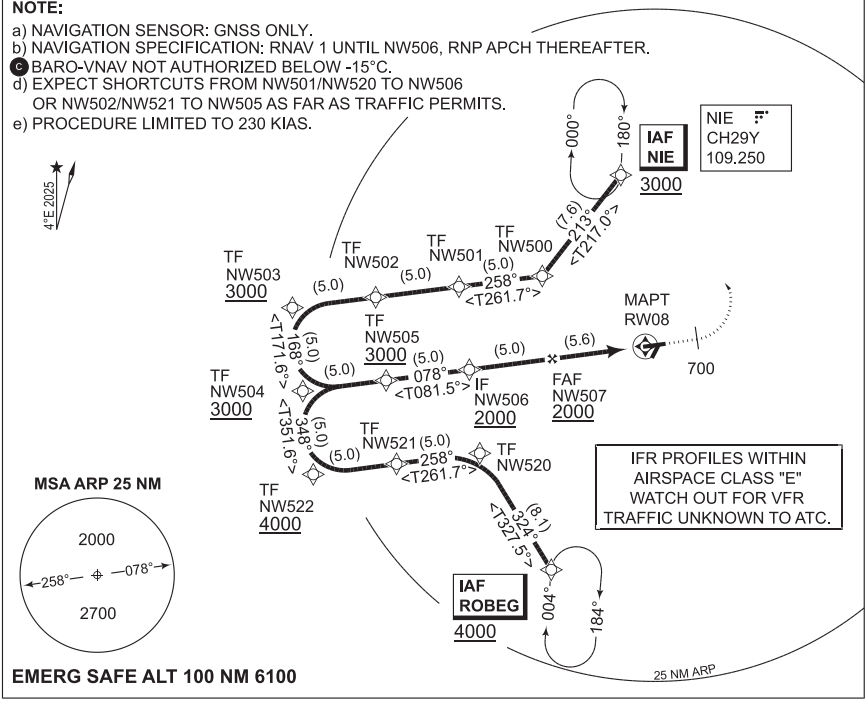
RNP RWY 08
WUNSTORF (ETNW)

BREMEN RADAR		WUNSTORF RADAR			WUNSTORF TOWER	
259.725	119.490	389.400	124.655	123.300	356.100	132.055

APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
078°	2000	3.0° / 5.2%	**See CAT**	171	900 m	7385

NOTE:

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

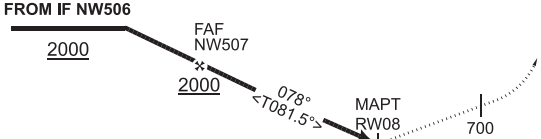


EMERG SAFE ALT 100 NM 6100

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
5.59
THR ELEV 171

CHANGE: CIRCLING MINIMA (187/26)

MIPS	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 C	**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** - 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)

ACC 01 OCT 2026

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

CHANGE: EDITORIAL (187/26)
ACC 01 OCT 2026

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 187

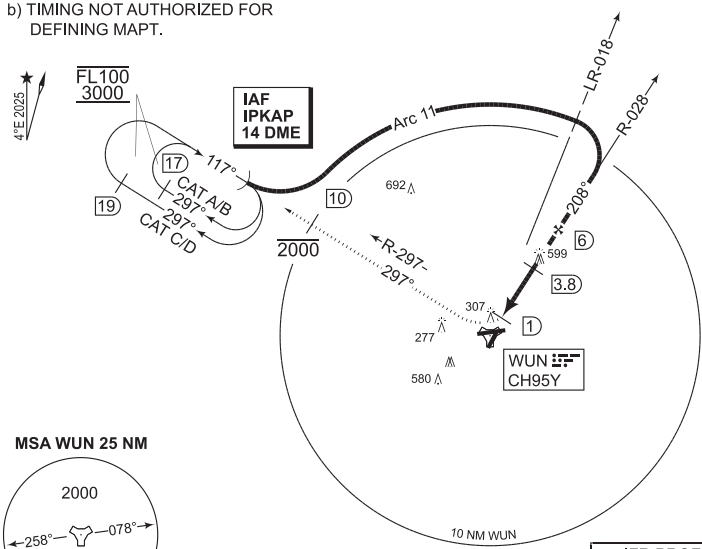
TACAN RWY 20
WUNSTORF (ETNW)

BREMEN RADAR	WUNSTORF RADAR	WUNSTORF TOWER
259.725 119.490	389.400 124.655 123.300	356.100 132.055

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
WUN CH95Y	208°	2000	5.24%	**560**	181	422 M	5573

NOTE:
a) NO TURN BEFORE MAPT.
b) TIMING NOT AUTHORIZED FOR DEFINING MAPT.

IAF
52°34.37'N
009°06.62'E

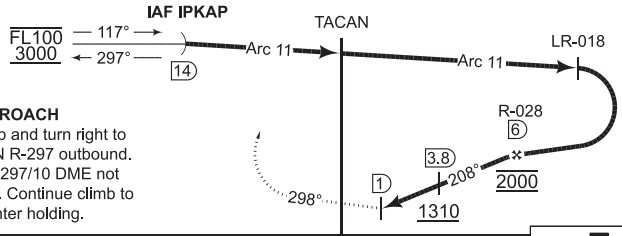


MSA WUN 25 NM

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

EMERG SAFE ALT 100 NM 6100

IAF IPKAP **TA 5000**



MISSED APPROACH
At MAPT climb and 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	E
MIPS	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°		

CHANGE: REVISED CHART (163/25)

ACC 25 DEC 2025

TACAN RWY 20

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 187

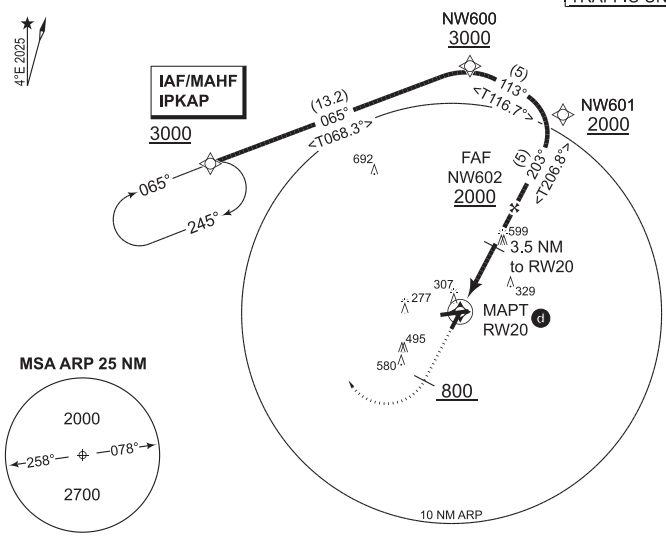
RNP RWY 20
WUNSTORF (ETNW)

BREMEN RADAR	WUNSTORF RADAR	WUNSTORF TOWER
259.725 119.490	389.400 124.655 123.300	356.100 132.055

APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
203°	2000	3.0° / 5.2%	**See CAT**	169	422 m	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.

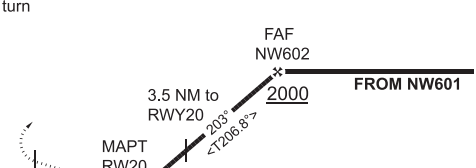


MSA ARP 25 NM

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

TCH 50

THR ELEV 169 — 5.59 — S-ALS

	CATEGORY	A	B	C	D
MIPS	LNAV	**560** - 1.4 391 (400-1.4/1.5)		**560** - 1.4 391 (400-1.4/1.8)	
	LNAV/VNAV (c)	**436** - 0.9 267 (300-0.9/1.3)	**449** - 0.9 280 (300-0.9/1.3)	**457** - 0.9 288 (300-0.9/1.4)	**467** - 0.9 298 (300-0.9/1.4)
	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)

CHANGE: REVISED CHART (163/25)

ACC 25 DEC 2025

RNP RWY 20

52°27.44'N
009°25.63'E

WUNSTORF (ETNW)

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

CHANGE: REVISED CHART (163/25)
ACC 25 DEC 2025

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 187

ILS Z or LOC RWY 26
WUNSTORF (ETNW)

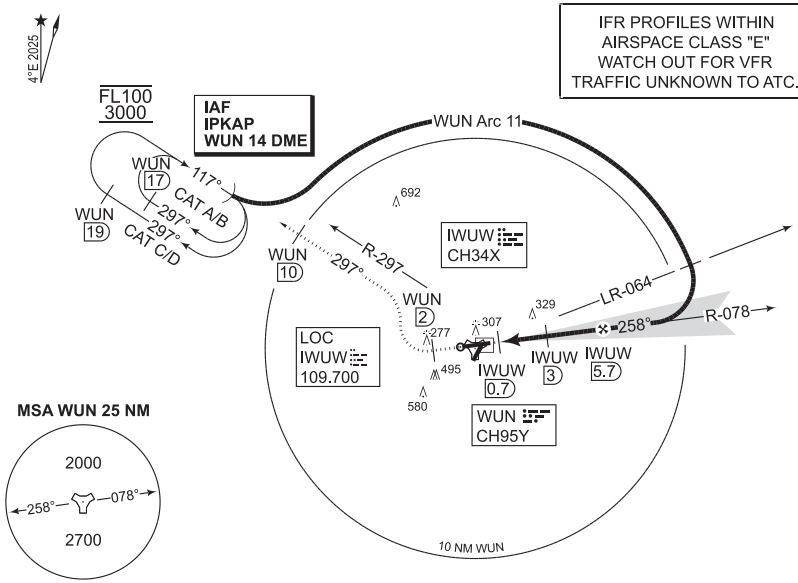
BREMEN RADAR	WUNSTORF RADAR			WUNSTORF TOWER	
259.725 119.490	389.400	124.655	123.300	356.100	132.055

TACAN/LOC	APP COURSE	GS INTCP ALT	GS	DA/MDA	TDZE	ALS-LENGTH	LDA
WUN CH95Y/ IWUW 109.700	258°	2000	3.0° / 5.2%	**374/530**	174	923 M	7457

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

IAF IPKAP
52°34.37'N
009°06.62'E

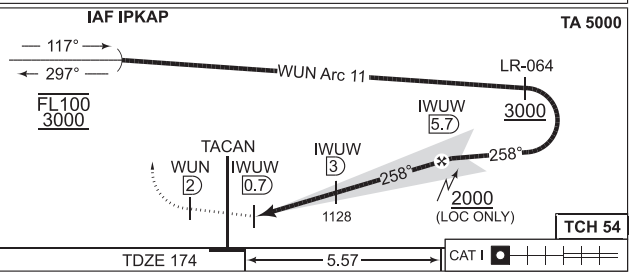
IFR PROFILES WITHIN AIRSPACE CLASS "E" WATCH OUT FOR VFR TRAFFIC UNKNOWN TO ATC.



MSA WUN 25 NM

EMERG SAFE ALT 100 NM 6100

MISSED APPROACH
Climb straight ahead to 2000 ft. At WUN/2 DME turn right to intercept WUN R-297. When passing WUN/10 DME climb to 3000 ft and enter holding.



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

MIPS

CHANGE: REVISED CHART (163/25)

ACC 25 DEC 2025

PANS-OPS
INSTRUMENT APPROACH CHART

AD ELEV 187

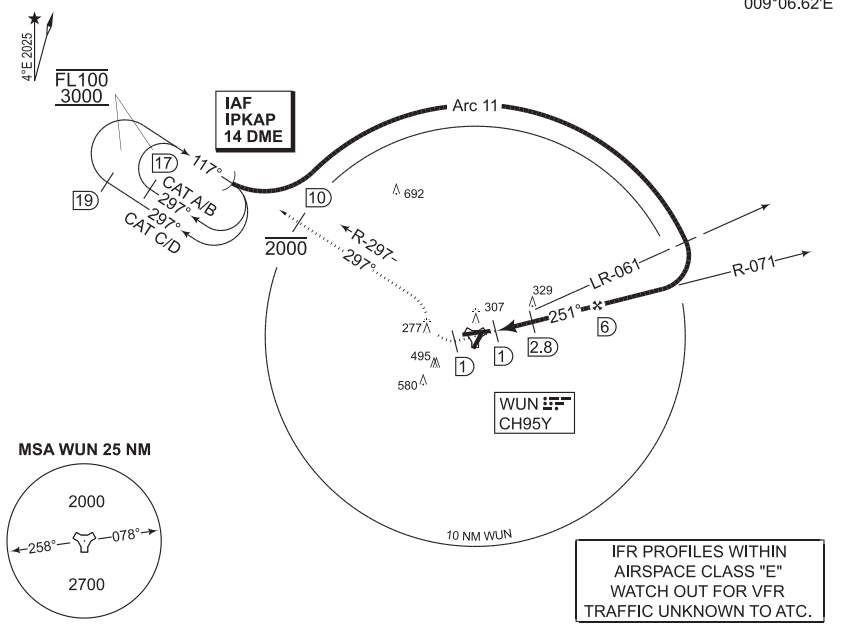
TACAN RWY 26
WUNSTORF (ETNW)

BREMEN RADAR	WUNSTORF RADAR	WUNSTORF TOWER
259.725 119.490	389.400 124.655 123.300	356.100 132.055

TACAN	APP COURSE	FAF ALT	DESCENT GR	MDA	TDZE	ALS-LENGTH	LDA
WUN CH95Y	251°	1900	5.2%	**490**	174	923 M	7457

NOTE:
a) NO TURN BEFORE MAPT.

IAF
52°34.37'N
009°06.62'E



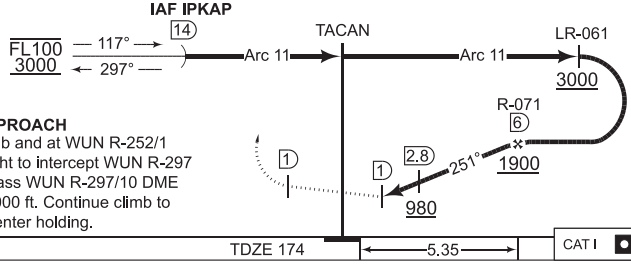
MSA WUN 25 NM

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

EMERG SAFE ALT 100 NM 6100

IAF IPKAP

TA 5000



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.

MIPS	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)

CHANGE: REVISED CHART (163/25)

ACC 25 DEC 2025

PANS-OPS
INSTRUMENT APPROACH CHART

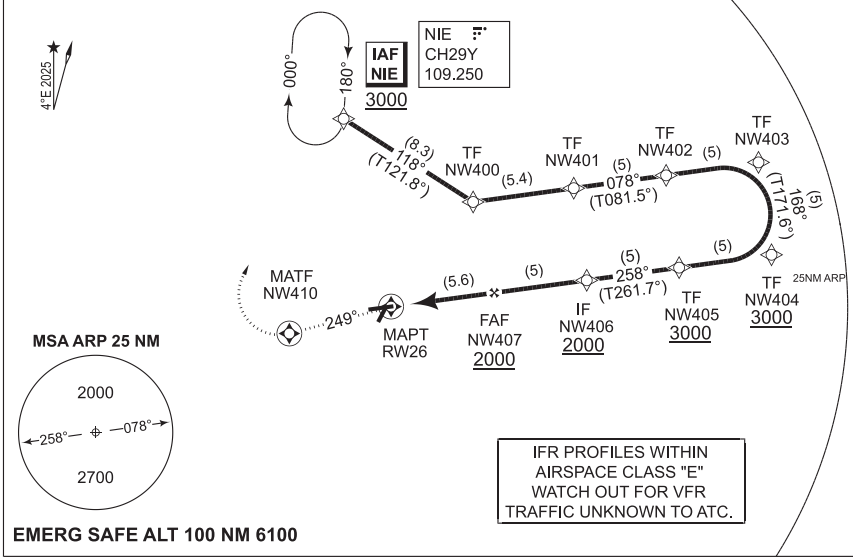
AD ELEV 187

RNP RWY 26
WUNSTORF (ETNW)

BREMEN RADAR	WUNSTORF RADAR	WUNSTORF TOWER
259.725 119.490	389.400 124.655 123.300	356.100 132.055

APP COURSE	FAF ALT	DESCENT GR	MDA	THR ELEV	ALS-LENGTH	LDA
258°	2000	3.0° / 5.2%	**See CAT**	174	923 m	7457

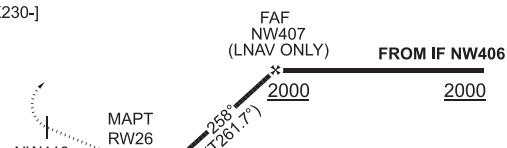
NOTE:
a) NAVIGATION SENSOR: GNSS ONLY.
b) NAVIGATION SPECIFICATION: RNAV 1 UNTIL NW406; RNP APCH THEREAFTER.
c) BARO-VNAV NOT AUTHORIZED BELOW -15°C.
d) EXPECT SHORTCUTS FROM NW401
TO NW406 OR NW402 TO NW405 AS FAR AS TRAFFIC PERMITS.
e) PROCEDURE LIMITED TO 230 KIAS MAX.



EMERG SAFE ALT 100 NM 6100

MISSED APPROACH **TA 5000**

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



Dist THR	1	2	3	4	5
Altitude	540	860	1170	1490	1810

THR ELEV 174 — 5.59

TCH 50

CAT I

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 (c)	**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)

MIPS

CHANGE: REVISED CHART (163/25)

ACC 25 DEC 2025

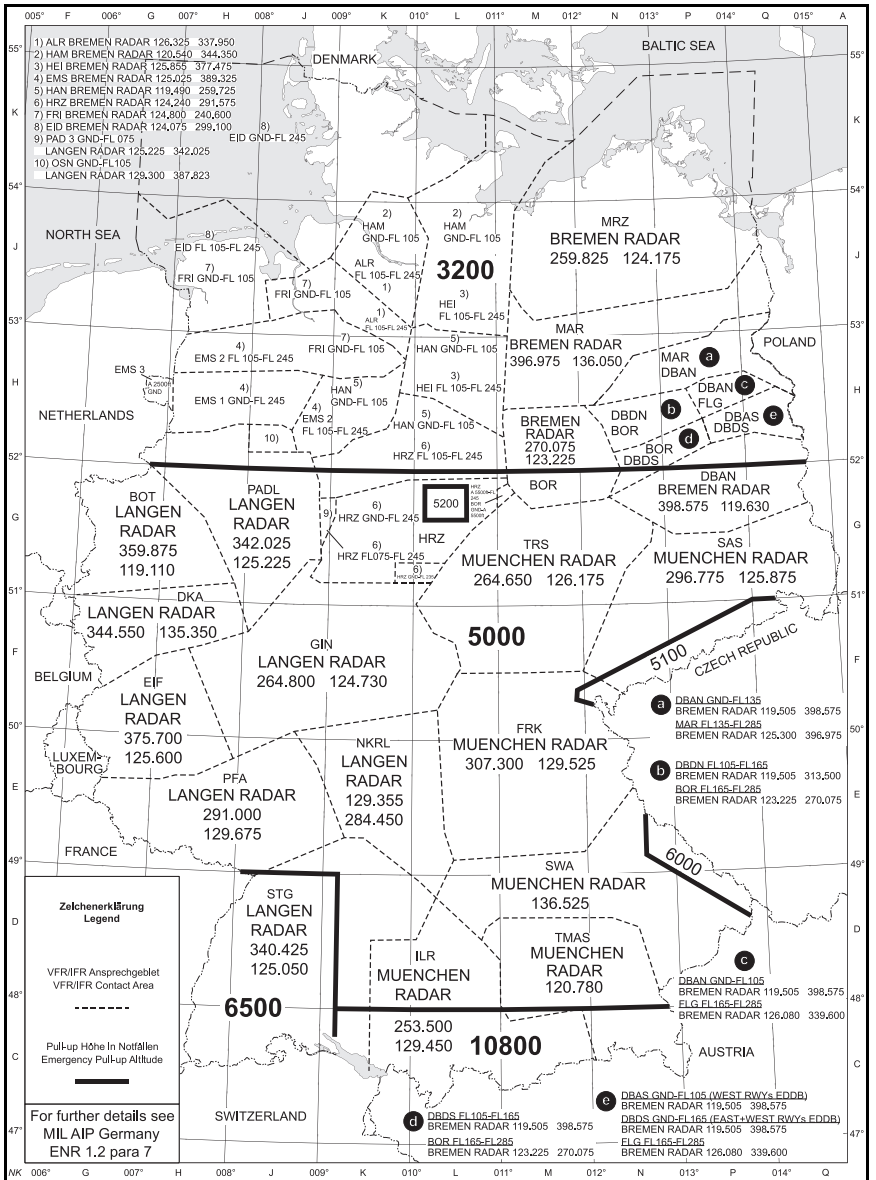
RNP RWY 26 FROM NIE:

	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

CHANGE: REVISED CHART (163/25)
ACC 25 DEC 2025



CHANGE: REVISED CHART (084/25)

ACC 30 OCT 2025

Contact Points for the Change from VFR-Flights to IFR-Flights

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


CENOR-countries
Non-CENOR-countries with selected procedures
No procedures published
VOL 1
VOL 2
VOL 3