

PART 3 – AERODROMES (AD)

AD 0.

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PART 3 – AERODROMES (AD)

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PART 3 – AERODROMES (AD)

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PART 3 – AERODROMES (AD)

AD 1.

AD 1.1 AERODROME/HELIPORT AVAILABILITY

AD 1. AERODROMES/HELIPORTS - INTRODUCTION

AD 1.1 AERODROME/HELIPORT AVAILABILITY

AD 1.1.1 OCCASIONAL USE OF MIL AERODROMES BY CIV ACFT

By decree of the Minister of Defence several MIL ADs in the Netherlands may occasionally be used by CIV ACFT. Use of the MIL ADs concerned is subject to the particulars published in the AIP Netherlands.

AD 1.1.2 OCCASIONAL USE OF CIV AERODROMES BY MIL ACFT

By decree of the Director-General of Civil Aviation a number of CIV ADs may occasionally be used by MIL ACFT. These ADs shall only be used in case of emergency, in times of tension and/or with special permission of the Chief of the Airstaff. Exercise flights are not included in aforementioned exceptions. The ADs concerned are:

For national and international flights:

- Amsterdam/Schiphol
- Deventer/Teuge
- Groningen/Eelde
- Hilversum
- Hoeven/Seppe
- Maastricht/Zuid-Limburg
- Middelburg/Midden-Zeeland
- Rotterdam
- Texel

For national flights only:

- Ameland
- Weert/Budel
- Hoogeveen
- Emmeloord/Noordoostpolder

Detailed information concerning above mentioned ADs is listed in the AIP Netherlands.

AD 1.1.3 PERSONS ON BOARD (POB)

At first radiocontact with the ATC unit of a MIL AD (APP, CAPP or TWR) the Pilot in Command shall report the number of POB. In case of omission the ATC unit will request this information.

AD 1.1.4 HEL LANDING SITES NOT PUBLISHED IN THE (MIL)AIP

Information about HEL landing sites not published in the (Mil)AIP may be obtained through MOD The Hague or from Wing Operations Gilze-Rijen. Use of these landing sites is subject to prior permission by the Military Aviation Authority.

AD 1.1.5 SPECIAL ARRANGEMENTS

HEL, belonging to the SAR organisation of the 'Bundeswehr' stationed at Rheine and Wuersele, are exempted from the rules, as stated in AD 1.1.3. For special agreement upon SAR operations within the sea- and coastal area see GEN 3.6.



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PART 3 – AERODROMES (AD)

AD 1.

AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN

AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN

AD 1.2.1 RESCUE AND FIREFIGHTING SERVICES

The crash, rescue and fire fighting capacity at the Netherlands MIL ADs is in accordance with STANAG 3712.

The crash equipment categories on the respective ADs are given on the relevant page of each AD.

AD 1.2.2 SNOW PLAN

During the winter season MIL ADs will issue SNOWTAM containing information according to the SNOWTAM format of ICAO Annex 15, Appendix 2 (STANAG 3634).

Numbering of the SNOWTAM for each AD will start with 01 at the beginning of the season.

A SNOWTAM will be issued immediately when circumstances so require like snow, ice, slush, etc. on runways, taxiways and aprons.

A new SNOWTAM will be issued when conditions have changed significantly, including the return to normal conditions.

If, during operational HRS, conditions have not changed a new SNOWTAM will be issued in principle every 6 HRS confirming the unchanged conditions.

In case where no 6-hourly confirmation by SNOWTAM is given, the maximum validity of the last issued SNOWTAM concerning that AD is 24 HRS.

Notification of the closure or reopening of an AD or RWY, as a result of snow and ice conditions, will be promulgated by NOTAM.

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PART 3 – AERODROMES (AD)

AD 1.

AD 1.3 INDEX TO AERODROMES AND HELIPORTS

AD 1.3 INDEX TO AERODROMES AND HELIPORTS

| NAME | LOCATION INDICATOR | OPERATED BY |
|-------------|---------------------------|-----------------------------|
| Deelen | EHDL | Royal Netherlands Air Force |
| De Kooy | EHKD | Royal Netherlands Air Force |
| Eindhoven | EHEH | Royal Netherlands Air Force |
| Gilze-Rijen | EHGR | Royal Netherlands Air Force |
| Leeuwarden | EHLW | Royal Netherlands Air Force |
| Volkel | EHVK | Royal Netherlands Air Force |
| Woensdrecht | EHWO | Royal Netherlands Air Force |

NOTE: Use of HEL landing sites outside ADs is subject to prior approval by CLSK/Breda.

MIL AERODROME INDEX



PART 3 – AERODROMES (AD)

AD 2.

**AD 2. AERODROMES
DEELN**

AD 2. AERODROMES

DEELEN

EHDL AD 2.1 Aerodrome location indicator and name

EHDL - Deelen

EHDL AD 2.2 Geographical and administrative data

| | | |
|---|---|--|
| 1 | ARP | 52°03'35.02"N 005°52'18.97"E |
| 2 | Direction and distance from city | 340° MAG/4.5 NM ARNHEM |
| 3 | Elevation/Reference temperature | + 158 ft AMSL/22.0° C (AUG) |
| 4 | MAG VAR/Annual change | 1°58'E (JAN 2020)/11'E |
| 5 | AD operating authority Postal address Visitors' address Telephone Telefax AFTN | RNLAF DHC Vliegbasis Gilze-Rijen attn C931 tav Vliegbasis Deelen MPC 89A P.O. Box 8762 4820 BB Breda Koningsweg 30 F 6816 TG ARNHEM +31(0)346 335901/902 +31(0)26 3531325 No |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHDL AD 2.3 Operational hours

| | | |
|---|-------------------------|------------------------------------|
| 1 | AD OPR HR | OPN for RNLAF HEL at various times |
| 2 | Customs and immigration | 48 HR PN |
| 3 | Health and sanitation | O/R |
| 4 | AIS Briefing office | Via EHGR |
| 5 | MET Briefing Office | Via EHGR |
| 6 | ATS | HO |
| 7 | Security | HO |
| 8 | Remarks | PPR 24 HRS |

EHDL AD 2.4 Handling services and facilities

| |
|----------|
| Not AVBL |
|----------|

EHDL AD 2.5 Passenger facilities

| | | |
|---|--------------------|-----|
| 1 | Remain overnight | Nil |
| 2 | Medical facilities | O/R |
| 3 | Remarks | Nil |

EHDL AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|------------------------|
| 1 | AD category for fire fighting | NATO CAT 4 NATO H-3 |
| 2 | Remarks | Nil |

EHDL AD 2.7 Seasonal availability - clearing

| |
|----------|
| Not AVBL |
|----------|

EHDL AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|---|
| 1 | Apron surface and strength | Concrete, LCN 30 (PCN not AVBL) |
| 2 | TWY width, surface and strength | Width 36 ft, tarmac/concrete, LCN 30 (PCN not AVBL) |
| 3 | Remarks | Nil |

EHDL AD 2.9 Surface movement guidance and control system and markings

| |
|--------------------------|
| According to STANAG 3158 |
|--------------------------|

| | | |
|---|---------|-----|
| 1 | Remarks | Nil |
|---|---------|-----|

EHDL AD 2.10 Aerodrome obstacles

| |
|---------------------|
| See Aerodrome Chart |
|---------------------|

EHDL AD 2.11 Meteorological information provided

| | | |
|---|--|--|
| 1 | Associated MET Office | Joint Meteorological Group |
| 2 | Hours of service MET Office outside hours | HO N/A |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | None N/A |
| 5 | Flight documentation Language(s) used | Reports, forecast and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHDL AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|------------------------------------|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | LCN 30 (PCN not AVBL) |

EHDL AD 2.13 Declared distances

| |
|------------------------------------|
| See Aerodrome Chart. Values in ft. |
|------------------------------------|

EHDL AD 2.14 Approach and runway lighting

| | | |
|-----------------------|-------------------|-------------------------------------|
| According STANAG 3316 | | |
| 1 | Approach lighting | RWY 19: CAT I. 420 m RWY 01: Nil |
| 2 | RWY lighting | RWY 19 VHI/VCL, RWY 01 VHI |
| 3 | Remarks | Nil |

EHDL AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|-----------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | Nil |
| 3 | Emergency RWY lighting | Nil |
| 4 | Emergency TWY edge lighting | Nil |
| 5 | Secondary power supply/switch-over | AVBL, switch over time 15 seconds |
| 6 | Remarks | Nil |

EHDL AD 2.16 Helicopter landing area

| | | |
|---|----------|--|
| 1 | Location | Four helisquares (non-STANAG) are situated in main grass area east of RWY 19/01. |
| 2 | Marking | Daylight marking |
| 3 | Lighting | Yes |
| 4 | Remarks | Nil |

EHDL AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|---|
| 1 | Designation and lateral limits | Deelen control zone 52°09'57.93"N 005°50'23.30"E; 52°12'05.96"N 005°51'26.74"E; 52°10'20.78"N 006°00'46.06"E; 52°08'12.82"N 005°59'42.21"E; along clockwise arc (radius 6.5 NM, centre 52°03'35.02"N 005°52'18.97"E) to 51°57'12.08"N 005°54'14.21"E; 51°55'03.92"N 005°53'10.91"E; 51°56'48.76"N 005°43'54.59"E; 51°58'56.70"N 005°44'57.34"E; along clockwise arc (radius 6.5 NM, centre 52°03'35.02"N 005°52'18.97"E) to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Deelen TWR. English |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHDL AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|--|-------|--|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Deelen Tower | 129.930 ^{*)} 122.100 ^{**)} 312.400 ^{*)} 257.800 ^{**)} | HO | ^{*)} Primary FREQ ^{**)} O/R |
| APP | RAPCON West | 123.580 399.725 | HO | Radar equipped |

EHDL AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|-------------------------|-----|------------------|-------|-----------------------------------|--------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| TACAN | DLN | CH 59X | H24 | 52°03'26.45"N 005°52'21.47"E | 40 NM/25000 ft | FREQ protected |
| ILS19 LOCAL- IZER | DNS | 108.700 | H24 | 52°02'45.383"N 005°51'54.422"E | | |
| GLIDE- PATH | | 330.500 | H24 | 52°04'02.944"N 005°52'27.312"E | | ILS-antenna 201ft AMSL |
| DME 19 | DNS | CH 24X | H24 | 52°04'02.944"N 005°52'27.312"E | | Situated on Glidepath 20. One direction only. |

EHDL AD 2.20 Local traffic regulations

Glider- and Light ACFT flying

Glidersite Terlet is located within the Deelen CTR/RMZ. Daily SR/SS the areas Terlet 1, Terlet 2, and Terlet 3 (see Local map) can be activated. Intensive gliderflying may be expected during activation of these areas.

EHDL AD 2.21 Noise abatement procedures

To be developed.

EHDL AD 2.22 Flight procedures

IFR procedures

The IAP and SID procedures are established in accordance with the 'Criteria for the preparation of Instrument Approach and Departure Procedures (APATC-1)'.

VFR procedures

APPROACH PROCEDURES:

| | |
|---|---|
| HEL are to approach at 750 ft via one of the following IPs: | |
| IP Woeste Hoeve (WH) | PSN approx. 3 NM north-east of the AD |
| IP West: | PSN approx. 2 NM south-west of the AD |
| IP East: | PSN along road Apeldoorn-Arnhem, 1 NM north of intersection with motorway A-50. |

DEPARTURE PROCEDURES:
Departure depending on intentions as directed by ATC.

REPORTING POINTS:

| | |
|----------|------------------------------|
| IP WH: | 52°06,04.20"N 005°57'07.20"E |
| IP West: | 52°02'09.00"N 005°48'56.40"E |
| IP East: | 52°01'48.60"N 005°55'44.40"E |

CIRCUIT PROCEDURES:
Circuit altitude 750 ft AMSL, direction 19 L/H, 01 R/H, 13 L/H, 31 R/H, 07 L/H and 25 R/H

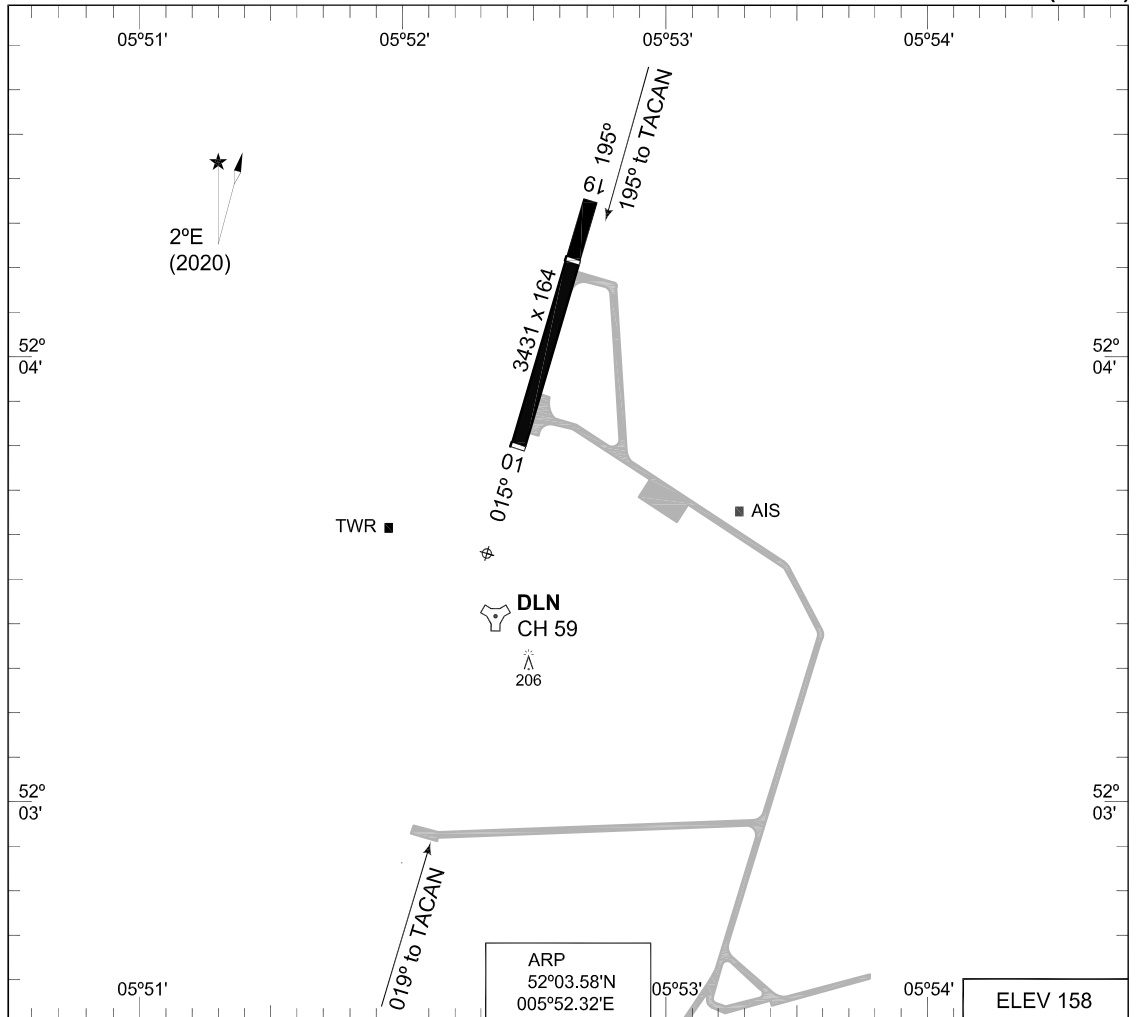
EHDL AD 2.23 Additional information

Approach control through Rapcon West.

EHDL AD 2.24 Charts related to an aerodrome

| | |
|---|--------------|
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| Local map | EHDL AD 2-8 |
| MVA chart | EHDL AD 2-9 |
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| Instrument approach chart Copter TACAN 01 | EHDL AD 2-12 |
| Instrument approach chart ILS or LOC RWY 19 | EHDL AD 2-13 |
| Instrument approach chart TACAN RWY 19 | EHDL AD 2-14 |
| Instrument approach chart Copter TACAN 19 | EHDL AD 2-15 |

MIPS AERODROME CHART DEELEN (EHDL)



| RWY | LCN | TORA | ASDA | TODA | LDA | | | | | TDZE | THR PSN |
|-----|-----|------|------|------|------|--|--|--|--|------|------------------------|
| 19 | 30 | 3431 | 3431 | 3431 | 2536 | | | | | 158 | 52°04.20'N 005°52.62'E |
| 01 | 30 | 3431 | 3431 | 3431 | 3411 | | | | | 151 | 52°03.81'N 005°52.43'E |

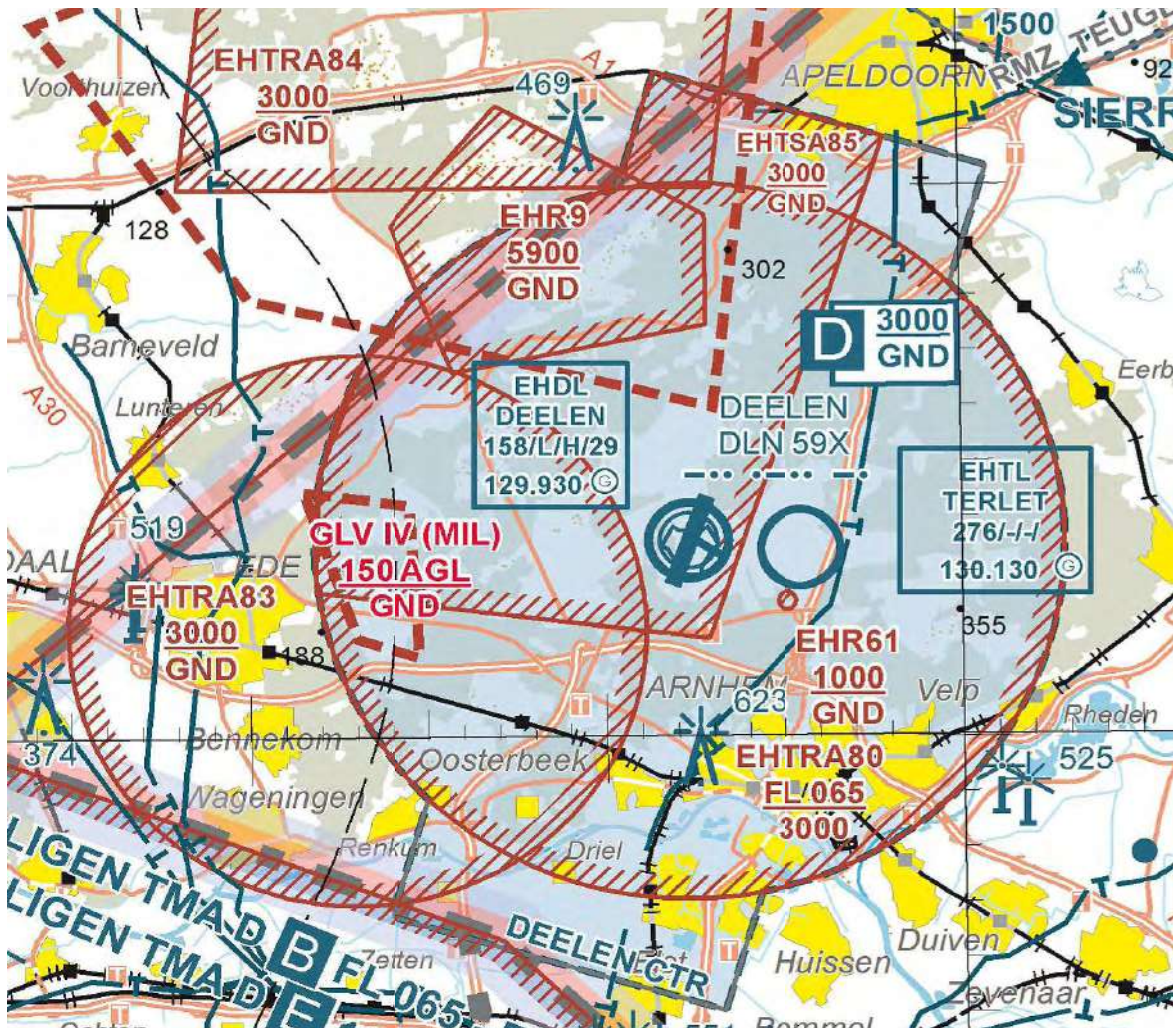
| | | |
|-------------|---------|---------|
| DEELEN TWR | 312.400 | 129.930 |
| RAPCON WEST | 399.725 | 123.580 |

| | PROC. CRITERIA | RWY | GS | TCH | OTCH | RPI | CAT | MINIMA CRITERIA | MINIMA |
|--|----------------|-----|----|-----|------|-----|-----|-----------------|--------|
| | | | | | | | | | |

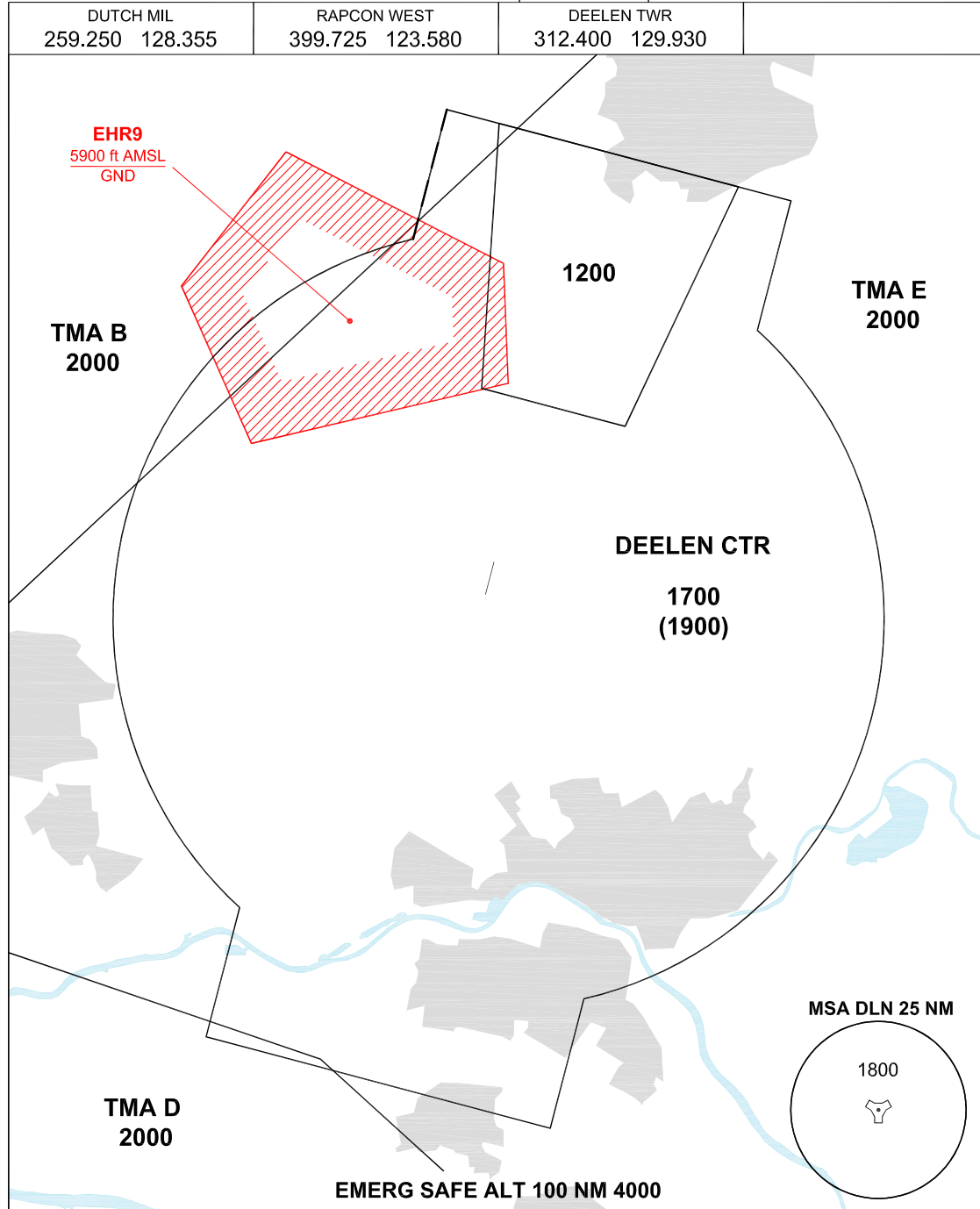
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LOCAL MAP



MIPS **MINIMUM VECTORING ALTITUDE** **MVA CHART**
DEELEN (EHDL)



- THE ALTITUDE BETWEEN BRACKETS IS TO BE USED FOR THE CORRESPONDING SECTOR WHEN AIR TEMPERATURE AT AIRBASE ALTITUDE IS LOWER THAN -15°.
- ALTITUDES ONLY AVAILABLE IF THE RADAR COVERAGE PERMITS.

CHANGES: MSA

RNLAf 18 MAY 2023

Co-ordinates

TERLET 1:

For execution of flying activities, within the CTR/RMZ Deelen the following area can be assigned to the NZC Terlet up to the tower boundary of Terlet-2 or Terlet-3, limited by the following co-ordinates:

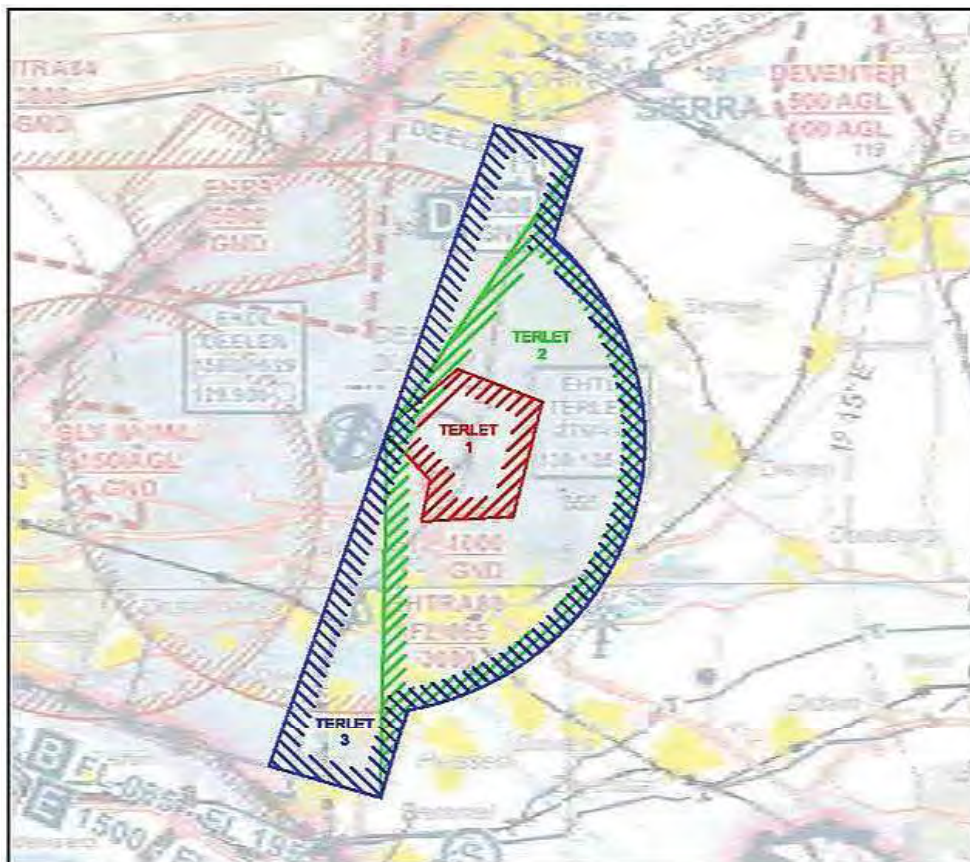
| |
|---|
| <p>Terlet-1 52°05'18.00"N 005°56'03.00"E; 52°04'47.00"N 005°58'54.00"E; 52°02'22.62"N 005°58'20.14"E; 52°02'16.67"N 005°55'05.35"E; 52°02'57.94"N 005°55'13.66"E; 52°03'41.40"N 005°53'53.77"E; 52°04'07.26"N 005°54'09.39"E; to point of origin. vertical limits; GND-925 ft AMSL</p> |
|---|

As supplement to area Terlet 1, area Terlet 2 or Terlet 3 needs to be assigned.

TERLET-2, TERLET-3:

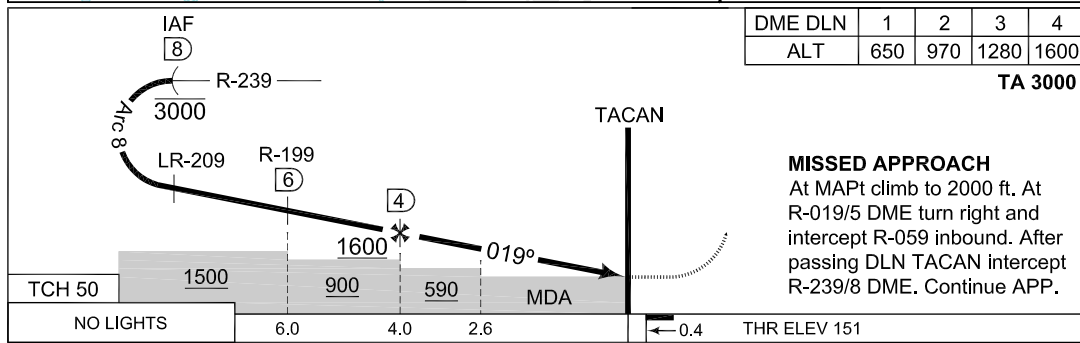
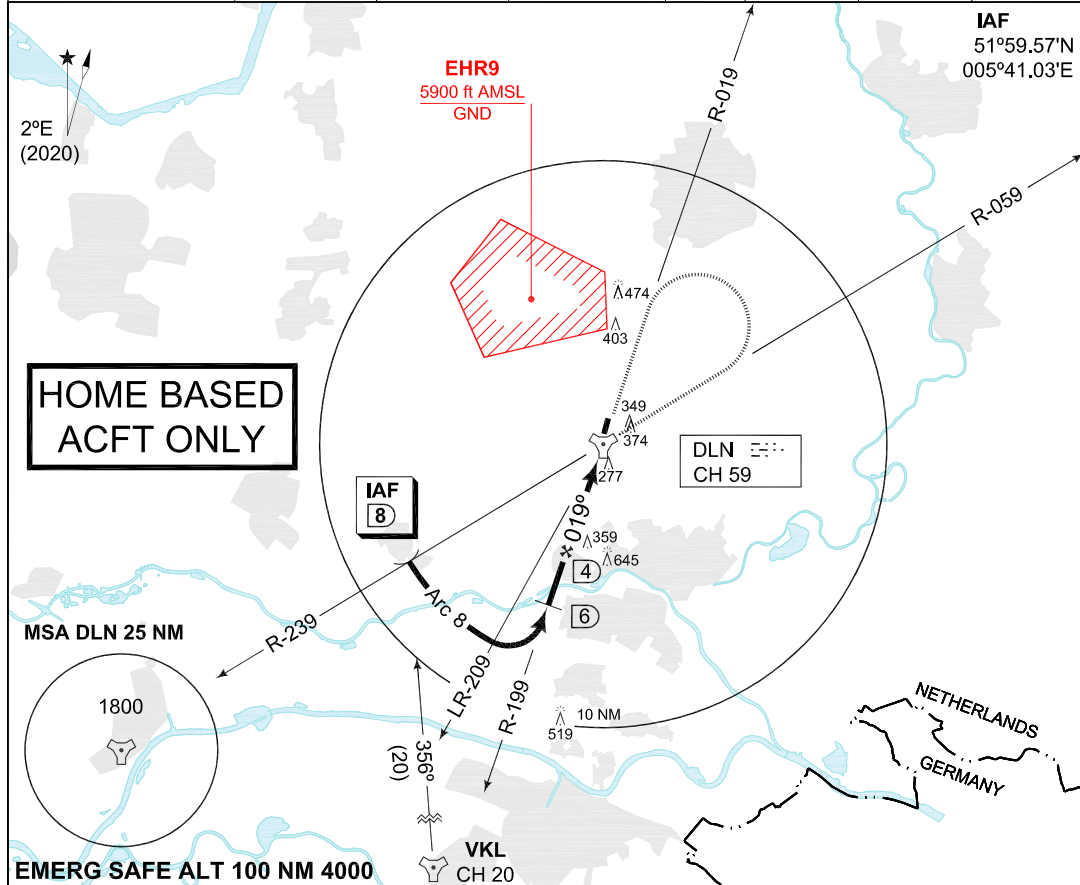
The upper limit is equal to the upper limit of the CTR/RMZ Deelen limited by the following coordinates:

| | |
|--|---|
| <p>Terlet-2 52°03'41.40"N 005°53'53.77"E; 52°10'20.78"N 006°00'46.09"E; 52°08'12.82"N 005°59'42.21 "E; along clockwise arc (radius 6.5 NM, centre 52°03'35.02"N 005°52'18.97"E) to 51°57'12.08"N 005°54'14.21"E; 51°55'03.92"N 005°53'10.91"E; to point of origin. vertical limits; 925 ft AMSL- 3000 ft AMSL</p> | <p>Terlet-3 52°10'53.01"N 005°57'54.56"E; 52°10'20.78"N 006°00'46.06"E; 52°08'12.82"N 005°59'42.21"E; along clockwise arc (radius 6.5 NM, centre 52°03'35.02"N 005°52'18.97"E;) to 51°57'12.08"N 005°54'14.21"E; 51°55'03.92"N 005°53'10.91"E; 51°55'45.67"N 005°49'29.94"E; to point of origin. vertical limits; 925 ft AMSL- 3000 ft AMSL</p> |
|--|---|



MIPS INSTRUMENT APPROACH CHART **TACAN RWY 01 DEELEN (EHDL)**

| | | | | | | | |
|------------------------------|--------------------|--------------------------------|--------------------|-------------------------------|-----------------|----------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON WEST 399.725 123.580 | | DEELEN TWR 312.400 129.930 | | | |
| TACAN DLN CH 59 | APP COURSE 019° | FAF ALT 1600 FT | Descent GR 5.2% | MDA 530 | THR ELEV 151 | ALS - | LDA 3411 FT |



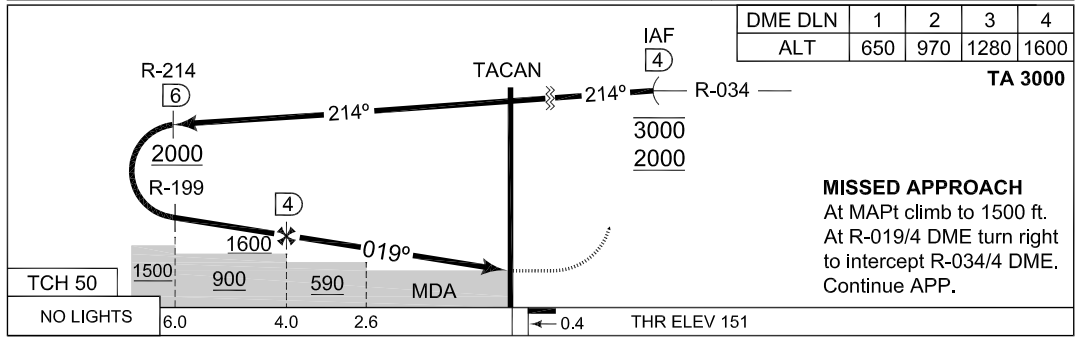
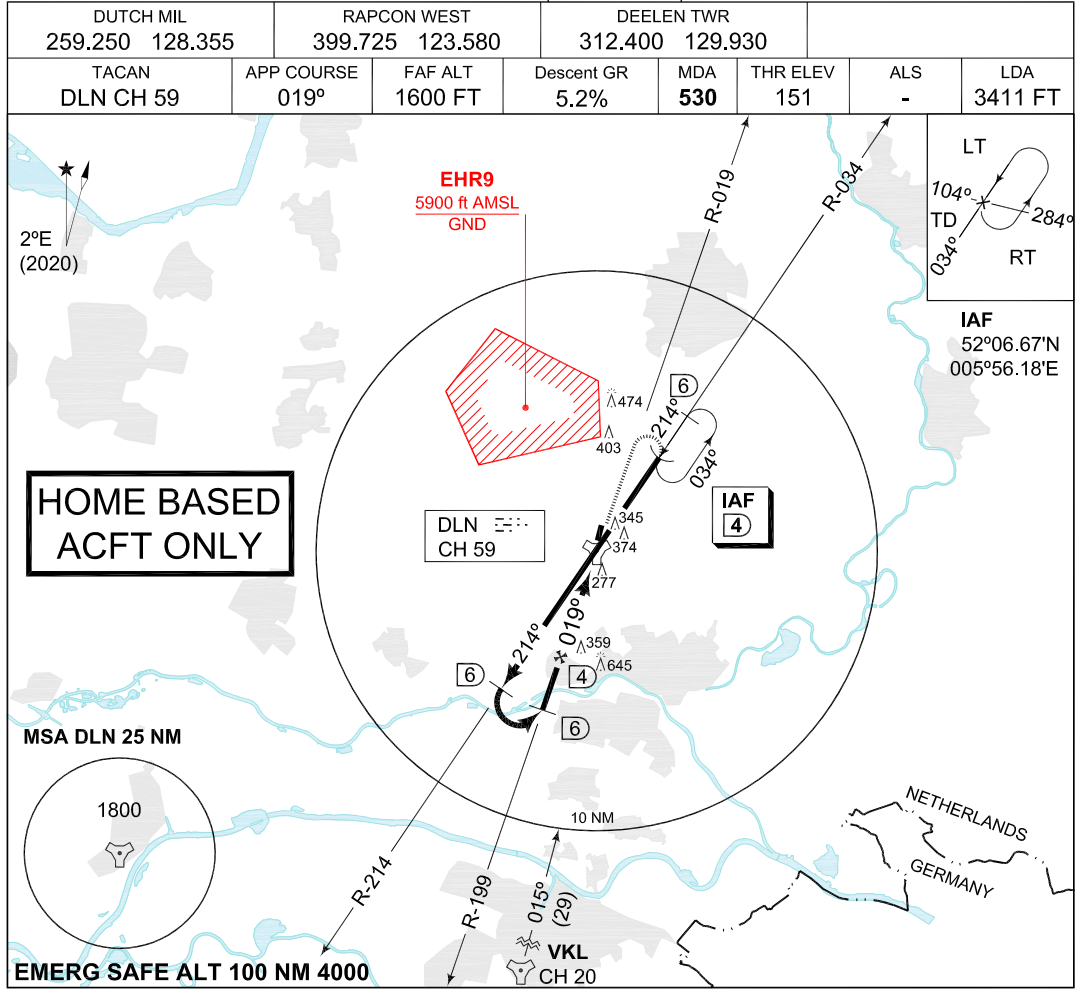
| | | | | |
|------------|--------------------------------------|------------------------------------|---|---|
| CATEGORY | COPTER | A | B | C |
| S-TACAN 01 | 530 -800 379 (400-0.8/0.8) | 530 -1700 379 (400-1.7/1.7) | | |
| CIRCLING | NOT AUTHORIZED | | | |

CHANGES: MSA

MIPS

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MIPS INSTRUMENT APPROACH CHART **COPTER TACAN RWY 01 DEELEN (EHDL)**



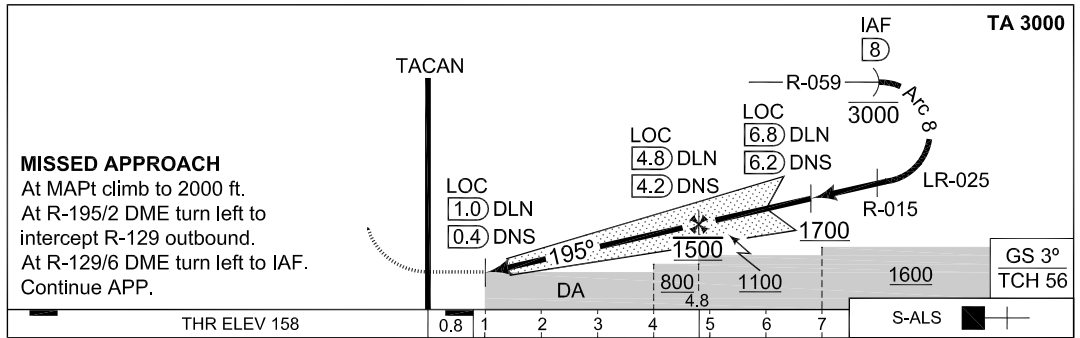
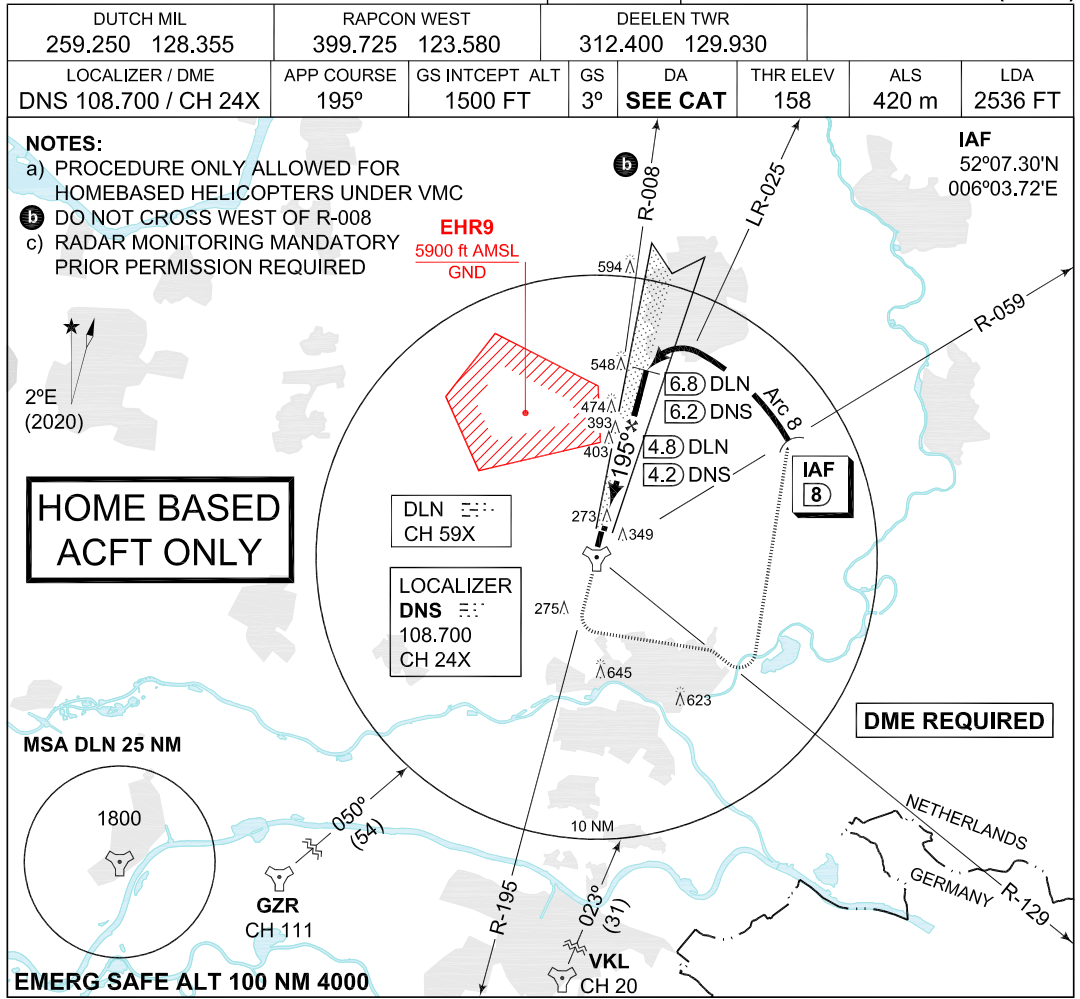
| | |
|------------|-----------------------------------|
| CATEGORY | COPTER |
| S-TACAN 01 | 530 -800 379 (400-0.8/0.8) |
| CIRCLING | NOT AUTHORIZED |

CHANGES: MSA

MIPS

RNLAF 18 MAY 2023

MIPS INSTRUMENT APPROACH CHART **ILS or LOC RWY 19 DEELEN (EHDL)**

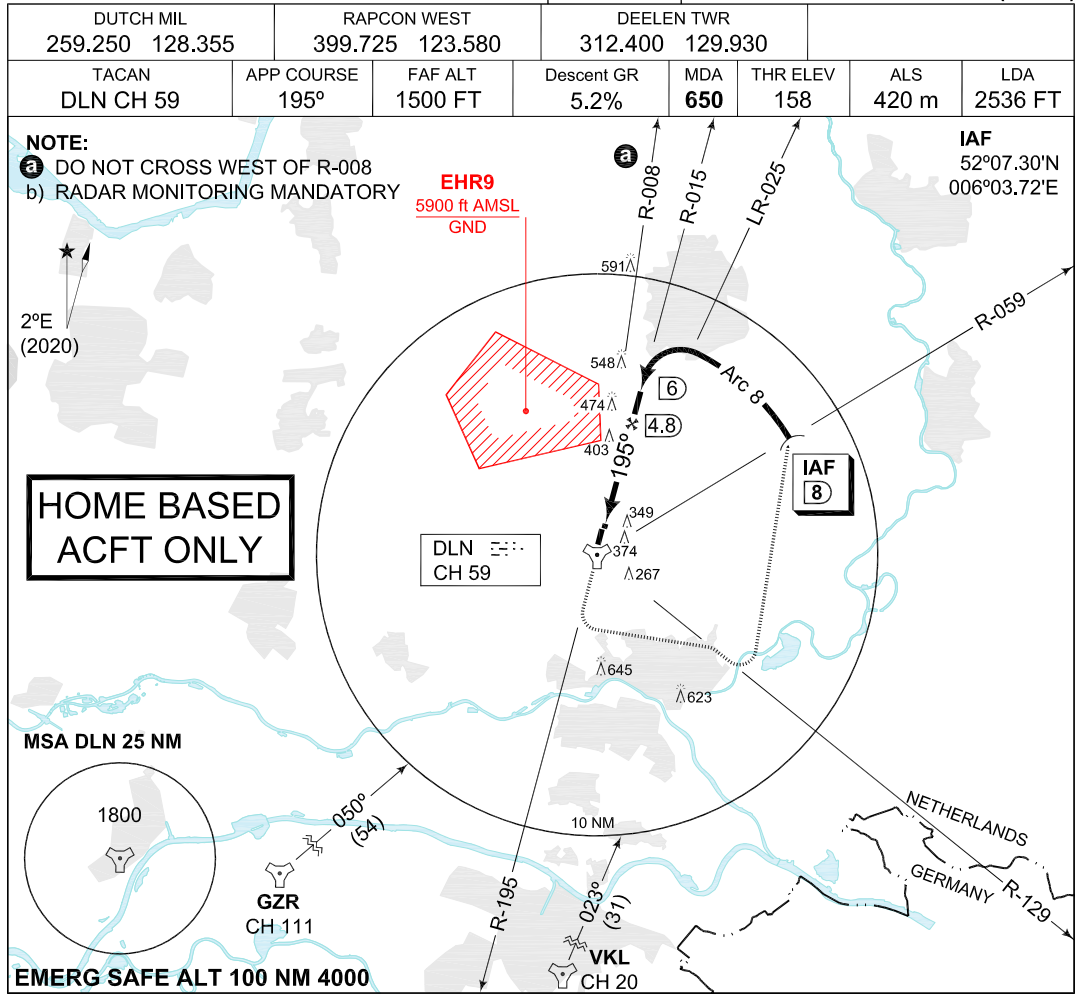


| CATEGORY | COPTER | A | B | C |
|----------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| S-ILS 20 | 388 -400 230 (300-0.4/0.8) | 404 -800 246 (300-0.8/1.2) | 414 -800 256 (300-0.8/1.3) | 424 -900 266 (300-0.9/1.3) |
| S-LOC 20 | 640 -400 482 (500-0.4/0.8) | 640 -1800 482 (500-1.8/2.3) | | |
| CIRCLING | NOT AUTHORIZED | | | |

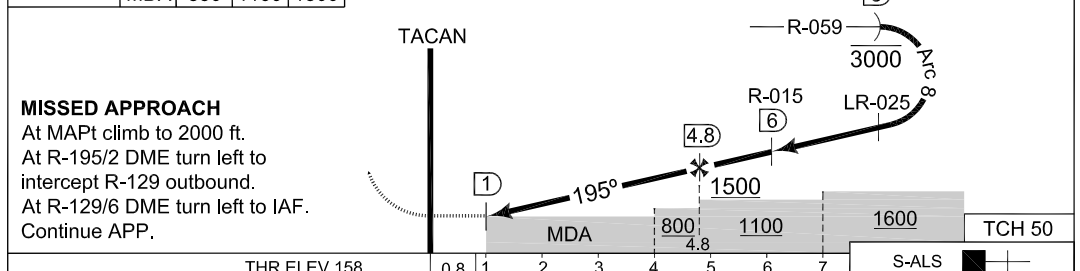
CHANGES: MSA

RNLAF 18 MAY 2023

MIPS INSTRUMENT APPROACH CHART **TACAN RWY 19 DEELEN (EHDL)**



| | | | | | | | | | |
|---------|---|-----|-----|------|------|--|--|--|---------------|
| DME DLN | 2 | 3 | 4 | 4.8 | | | | | |
| ALT | | MDA | 850 | 1160 | 1500 | | | | IAF 8 TA 3000 |



| | | | | | | | | | | | |
|--------------|---------------------------|----------------------------|---|---|---|---|---|---|---|-------|---|
| THR ELEV 158 | | 0.8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | S-ALS | + |
| CATEGORY | COPTER | A | | | B | | | C | | | |
| S-TACAN 19 | 650-400 492 (500-0.4/0.8) | 650-1800 492 (500-1.8/2.3) | | | | | | | | | |
| CIRCLING | NOT AUTHORIZED | | | | | | | | | | |

CHANGES: MSA

RNLAF 18 MAY 2023



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PART 3 – AERODROMES (AD)

AD 2.

**AD 2. AERODROMES
DE PEEL**

DE PEEL

EHDP AD 2.1 Aerodrome location indicator and name

EHDP - De Peel

EHDP AD 2.2 Geographical and administrative data

| | | |
|---|--|--|
| 1 | ARP | 513102.2N0055120.3E |
| 2 | Direction and distance from city | 077° MAG/ 7.5 NM HELMOND |
| 3 | Elevation/Reference temperature | + 98 ft AMSL / Not available |
| 4 | MAG VAR/Annual change | 1°07'E (JAN 2015)/8'E |
| 5 | AD operating authority Postal address/Visitors' address Telephone Telefax AFTN | RNLAF Groep Geleide Wapens De Peel MPC 88A Ripseweg 1 5816 AC VREDEPEEL +31(0)493 598911 +31(0)493 598910 Nil |
| 6 | Types of TFC permitted (IFR/VFR) | Nil |
| 7 | Remarks | Nil |

EHDP AD 2.3 Operational hours

| | | |
|---|-----------|-----------|
| 1 | AD OPR HR | AD closed |
|---|-----------|-----------|

EHDP AD 2.17 Air traffic services airspace

| | | |
|---|---------------------------------------|--|
| 1 | Designation and lateral limits | De Peel control zone 51°37'09.82"N 005°54'46.89"E; along clockwise arc (radius 6.5 NM, centre 51°31'02.20"N 005°51'20.30"E) to 51°24'49.79"N 005°54'23.09"E; 51°19'23.04"N 005°26'17.58"E; along anti-clockwise arc (radius 8 NM, centre 51°27'00.48"N 005°22'28.25"E) to 51°21'21.33"N 005°31'29.98"E; 51°33'45.27"N 005°51'29.87"E; along anti-clockwise arc (radius 8 NM, centre 51°39'25.95"N 005°42'28.17"E) to point of origin. |
| 2 | Vertical limits | GND to 3000ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | ATC in De Peel CTR is provided by Eindhoven TWR and Volkel TWR. For crossing clearance of De Peel CTR adjacent to Eindhoven CTR contact Eindhoven TWR. For crossing clearance of De Peel CTR adjacent to Volkel CTR contact Volkel TWR. English Outside HO DUTCH MIL INFO FREQ 132.350 MHZ. |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |



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PART 3 – AERODROMES (AD)

AD 2.

**AD 2. AERODROMES
EINDHOVEN**

EINDHOVEN

EHEH AD 2.1 Aerodrome location indicator and name

EHEH - Eindhoven

EHEH AD 2.2 Geographical and administrative data

| | | |
|---|---|---|
| 1 | ARP | 51°27'00.48"N 005°22'28.25"E |
| 2 | Direction and distance from city | 281° MAG/4 NM EINDHOVEN |
| 3 | Elevation/Reference temperature | +74 ft AMSL/22.3o C (JUL) |
| 4 | MAG VAR/Annual change | 1°50'E (JAN 2020)/11'E |
| 5 | AD operating authority Postal address Visitors' address Telephone Telefax AFTN | RNLAF Vliegbasis Eindhoven MPC 87A P.O. Box 8762 4820 BB Breda Flight Forum 1550 5657 EZ Eindhoven +31(0)40 2896911 +31(0)40 2896466 EHEHZTX |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHEH AD 2.3 Operational hours

| | | |
|----|----------------------------|---|
| 1 | AD OPR HR | MON/FRI 0600/2200 (0500/2100) |
| 2 | Customs and immigration | 30 MIN PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | See 2.23 |
| 5 | ATS Reporting Office (ARO) | See 2.23 |
| 6 | MET Briefing Office | HO |
| 7 | ATS | MIL and CIV HO |
| 8 | Fuelling | HO |
| 9 | Handling | HO |
| 10 | Security | HO |
| 11 | De-icing | HO |
| 12 | Remarks | For CIV OPR HRS see AIP Netherlands EHEH AD 2.3 |

EHEH AD 2.4 Handling services and facilities

| | | |
|---|--------------------------------|---|
| 1 | Cargo-handling facilities | Yes |
| 2 | Fuel/oil types | F-34, H-515, O-147, O-148, O-156 |
| 3 | Fuelling facilities/capacity | No limitations |
| 4 | Oxygen | No |
| 5 | De-icing facilities/type | S-742 |
| 6 | Starting units | DSA 150, DSA 600, DSA 900, JAS, DC 3500 |
| 7 | Hangar space for visiting ACFT | O/R |
| 8 | Repair facilities | C130 |
| 9 | Remarks | No X-servicing for armed ACFT |

EHEH AD 2.5 Passenger facilities

| | | |
|---|--------------------|---|
| 1 | Remain overnight | AVBL O/R |
| 2 | Medical facilities | First Aid treatment and first responders on site. Hospitals in Eindhoven (8km) |
| 3 | Remarks | Nil |

EHEH AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|-------------------------------------|
| 1 | AD category for fire fighting | Fire NATO CAT 8 higher O/R 48 HR PN |
| 2 | Remarks | Nil |

EHEH AD 2.7 Seasonal availability - clearing

| | | |
|---|------------------------|---|
| 1 | Seasonal availability | All seasons |
| 2 | Snow removal equipment | Yes |
| 3 | Remarks | Caution advised in winter during ice conditions |

EHEH AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|--|
| 1 | Apron surface and strength | West:Concrete, PCN 61 R/B/W/T East:Concrete, PCN 61 R/B/W/T |
| 2 | TWY width, surface and strength | Width minimal 54 ft, concrete, PCN 61 R/B/W/T |
| 3 | Remarks | TWY R6: PCN 52 R/B/W/T |

EHEH AD 2.9 Surface movement guidance and control system and markings

| | | |
|---|--------------------------|-------------------------|
| | According to STANAG 3158 | |
| 1 | Remarks | 'Follow-me' car is AVBL |

EHEH AD 2.10 Aerodrome obstacles

| |
|---------------------|
| See Aerodrome Chart |
|---------------------|

EHEH AD 2.11 Meteorological information provided

| | | |
|---|--|---|
| 1 | Associated MET Office | Eindhoven |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 30 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHEH 040-2896483 or mail EHV.METEO@mindef.nl Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHEH AD 2.12 Runway physical characteristics

| | | |
|---|----------------|------------------------------------|
| 1 | RWY dimensions | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac |
| 3 | RWY strength | PCN 62 F/A/W/T |

EHEH AD 2.13 Declared distances

| |
|------------------------------------|
| See Aerodrome Chart. Values in ft. |
|------------------------------------|

EHEH AD 2.14 Approach and runway lighting

| According STANAG 3316 | | |
|-----------------------|-------------------|--|
| 1 | Approach lighting | RWY 21: CAT I. 869 m RWY 03: CAT I. 892 m |
| 2 | RWY lighting | RWY 03/21 VCL/VHI |
| 3 | PAPI | Situated on the left side of both RWYs |
| 4 | Remarks | Nil |

EHEH AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|---------------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | VB |
| 3 | Emergency RWY lighting | Nil |
| 4 | Emergency TWY edge lighting | Retroreflective markers |
| 5 | Secondary power supply/switch-over | AVBL switch over time within 1 second |
| 6 | Remarks | Nil |

EHEH AD 2.16 Helicopter landing area

| | | |
|---|----------|---------------------|
| 1 | Location | See Aerodrome Chart |
| 2 | Marking | Daylight marking |
| 3 | Lighting | No |
| 4 | Remarks | Nil |

EHEH AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|---|
| 1 | Designation and lateral limits | EINDHOVEN CTR 51°38'52.86"N 005°23'22.88"E; 51°27'33.73"N 005°41'28.57"E; 51°21'21.33"N 005°31'29.98"E; along clockwise arc (radius 8 NM, centre 51°27'00.48"N 005°22'28.25"E) to 51°32'38.93"N 005°13'24.29"E; to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Eindhoven TWR, outside HO Dutch Mil Info 132.350 MHz. English |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHEH AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|---|-------|---------------------------------|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Eindhoven Tower | 131.005*)**) 122.100 241.550*) 257.800 | HO | *)Primary FREQ **)VDF |
| GND CTL | Eindhoven Ground | 335.750 121.930 | HO | |
| APP | RAPCON South | 123.180*) 122.100 388.525*) | HO | Radar equipped |
| RADAR | Eindhoven Arrival | 124.530**) 122.100 265.975 | HO | Through APP |
| ATIS | | 126.030 | | Coverage 60 NM/20000 ft |

EHEH AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|---------------------|-----|------------------|-------|---------------------------------|--------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| TACAN | EHV | CH 119X | H24 | 51°26'53.39"N 005°22'29.78"E | 150 NM/60000 ft | FREQ protected |
| ILS 03 LOCALIZER | EHZ | 109.750 | H24 | 51°27'45.01"N 005°23'18.19"E | | 033° MAG 0.23 NM from the THR RWY 21 |
| GLIDEPATH | | 333.050 | H24 | 51°26'34.18"N 005°22'06.36"E | | 0.20 NM past THR RWY 03 |
| DME 03 | EHZ | CH 34Y | H24 | 51°26'34.18"N 005°22'06.36"E | | Situated on Glide- path 03. One direc- tion only. |
| ILS 21 LOCALIZER | EHO | 109.750 | H24 | 51°26'15.09"N 005°21'37.39"E | | 213° MAG 0.25 NM from the THR RWY 03 |
| GLIDEPATH | | 333.050 | H24 | 51°27'22.30"N 005°23'01.56"E | | 0.19 NM past THR RWY 21 |
| DME 21 | EHO | CH 34Y | H24 | 51°27'22.30"N 005°23'01.56"E | | Situated on Glide- path 21. One direc- tion only. |

EHEH AD 2.20 Local traffic regulations

START UP PROCEDURES

For pushback and start-up permission contact Eindhoven Ground 121.930 this request shall include Person On Board and parking position.

TAXI PROCEDURES

Eindhoven Ground is operational during aerodrome operational hours. On taxiway no turns larger than 90° allowed. ATC may assign an intersection take-off to any aircraft for operational reasons. During low visibility procedures (visibility < 1500 m and cloudbase < 200 ft) limited use of intersection take-offs are allowed.

EHEH AD 2.21 Noise abatement procedures

RWY 03: Climb on RWY track until 4 DME and at least 1000 ft.

RWY 21: Climb on RWY track until 3 DME and at least 1000 ft.

Instrument approaches mandatory, light ACFT exempted.

EHEH AD 2.22 Flight procedures

IFR procedures

The IAP and SID procedures are established in accordance with STANAG 3759 and AATCP-1.

NOTE: Exercise caution when intercepting the glide slope from above as this increases the risk of false glide slope captur

RNP Z approach RWY 03

| Serial number | Path Des-criptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA (°TCH(ft)) | NAV Spec |
|---------------|------------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | TILVU | | | | | | +2000 | | | RNAV1 |
| 002 | TF | RUSAL | | 170/(171.9) | | 8.3 | | | | | RNAV1 |
| 003 | TF | ERSUL | | 124/(126.0) | | 5.0 | | +2000 | -220 | | RNAV1 |
| 004 | IF | MITSA | | | | | | +2000 | | | RNAV1 |
| 005 | TF | ERSUL | | 302/(303.8) | | 5.0 | | +2000 | -220 | | RNAV1 |
| 006 | IF | ERSUL | | | | | | +2000 | -220 | | RNAV1 |
| 007 | TF | EH573 | | 033/(034.9) | | 2.1 | | +2000 | | | RNP APCH |
| 008 | TF | THR03 | Y | 033/(034.9) | | 5.9 | | | | -3.00/50 | RNP APCH |
| 009 | TF | EH550 | Y | 033/(035.0) | | 4.6 | | | | | RNP APCH |
| 010 | DF | EHOJI | | | | | L | @3000 | | | |

FAS data block- RNP Z RWY 03

| Input data | |
|-------------------------------------|----------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHEH |
| Runway | 03 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Z |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E03A |
| LTP/FTP Latitude | 512627.1400 N |
| LTP/FTP Longitude | 0052150.900 E |
| LTP/FTP Ellipsoidal Height (metres) | 66.6 |
| FPAP Latitude | 512740.2215 N |
| Delta FPAP latitude (seconds) | 73.0815 |
| FPAP longitude | 0052312.8100 E |
| Delta FPAP Longitude (seconds) | 81.9100 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.00 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 08 05 08 05 03 D0 00 01 33 30 05 88 76 13 16 68 52 4D 02 9A 16 F3 3A 02 EC 7F 02 F4 01 2C 01 64 00 C8 AF D6 A5 BA 99 |
| Calculated CRC Value | D6A5BA99 |
| Supplied CRC Value | D6A5BA99 |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|------|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 22.3 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

RNP Z approach RWY 21

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA (°TCH(ft)) | NAV spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | BESTI | | | | | | +2000 | | | RNAV1 |
| 002 | TF | GILIV | | 123/(124.2) | | 5.0 | | +2000 | | | RNAV1 |
| 003 | IF | GEMTI | | | | | | +2000 | | | RNAV1 |
| 004 | TF | GILIV | | 304/(306.1) | | 5.0 | | +2000 | | | RNAV1 |
| 005 | IF | GILIV | | | | | | +2000 | | | RNAV1 |
| 006 | TF | EH567 | | 213/(215.1) | | 4.1 | | +2000 | | | RNP APCH |
| 007 | TF | THR21 | Y | 213/(215.1) | | 5.9 | | | | -3.00/50 | RNP APCH |
| 008 | TF | EH558 | Y | 213/(215.1) | | 3.8 | | | | | RNP APCH |
| 009 | DF | EHOJI | | | | | R | @3000 | | | |

RNP Z RWY 21

| | |
|-------------------------------------|----------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHEH |
| Runway | 21 |
| Runway Letter | 0 (None) |
| Approch Performance Designator | 0 |
| Route Indicator | Z |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E21A |
| LTP/FTP Latitude | 512733.7900 N |
| LTP/FTP Longitude | 0052305.6000 E |
| LTP/FTP Ellipsoidal Height (metres) | 64.5 |
| FPAP Latitude | 512620.6850 N |
| Delta FPAP latitude (seconds) | -73.1050 |
| FPAP longitude | 0052143.6855 E |
| Delta FPAP Longitude (seconds) | -81.9145 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.00 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 08 05 08 05 15 D0 00 01 31 32 05 3C 7F 15 16 00 9A 4F 02 85 16 DE C4 FD 0B 80 FD F4 01 2C 01 64 00 C8 AF 3E 0B 00 1D |
| Calculated CRC Value | 3E0B001D |
| Supplied CRC Value | 3E0B001D |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|------|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 20.3 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

VFR procedures

Arrival, departure and crossing VFR flights shall be carried out via the arrival/departure routes unless otherwise instructed by ATC or approved on pilots request.

CONVENTIONAL ACFT:

AD control is to be called 15 MIN prior LDG and ACFT have to join the circuit under a 90° angle to the ordered down wind.

HEL:

Approach and departure procedures to be carried out from north-west. When approaching from/departing to north-west HEL may cross RWY 03/21 after R/T permission has been obtained. In order to avoid built-up areas, sector 060/120 is prohibited.

REPORTING POINTS:

Echo: 51°24'24"N 005°33'40"E
 Hotel: 51°28'45"N 005°19'16"E
 Mike: 51°26'12"N 005°25'34"E
 Oscar: 51°29'59"N 005°17'23"E
 Tango: 51°34'20"N 005°17'00"E
 Victor: 51°24'18"N 005°25'53"E
 Whiskey: 51°30'00"N 005°11'42"E
 X-Ray: 51°20'35"N 005°25'14"E
 Zulu: 51°18'59"N 005°27'09"E

CIRCUIT HEIGHTS:

Conventional ACFT: 1500 ft
 Light ACFT: 1000 ft
 HEL: 600 ft

NOTE: R/H circuit on RWY 21

LOW VISIBILITY PROCEDURES

During periods of low visibility the overall ATC capacity is reduced. To guarantee aircraft safety an optimal use of ATC capacity, Eindhoven Airport uses low visibility procedures. When the visibility ≤ 1500 m and/or cloud base ≤ 300 ft cautionary measures are taken and the following low visibility procedures will be initiated.

Four low visibility phases are recognised:

| Phase | Conditions | Procedure |
|-------|---|--|
| A | RVR ¹ ≤ 1500 m and/or ceiling ≤ 300 ft | Limited use of intersection take-offs.; All WIP on airside will be terminated. No conditional clearances |
| B | RVR < 1100 m and/or ceiling < 200 ft | Separation BTN landing acft will be increased to 8 Nm |
| C | RVR < 550 m | Tfc will be reduced to "one movement a time" |
| D | RVR < 300 m | The airport is below operational minima for arriving and departing aircraft |

NOTE: ¹ RVR of the runway in use is mandatory

NOTE: During low visibility procedures taxi instructions to cross the runway and use taxiway Romeo will be provided on the EHEH TWR frequency

EHEH AD 2.23 Additional information**GENERAL**

Approach control through Rapcon South. ILS approaches for RWY 03/21 from 2000 ft. RVR AVBL for RWY 03/21¹).

AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.

Tel: +31(0)20 4062840
Tel: +31(0)20 4062841
E-mail: aocs.fdn@mindef.nl
AFTN: EHMCZPZX

AVBL H24

PPR 24 HRS: for Prior Permission Request contact Mission Support

Tel: +31(0)40 2896837
Fax: +31(0)40 2896815
E-mail: amc.occ@mindef.nl

CIV training flights prohibited except for home-based ACFT.

No X-servicing for armed ACFT.

1) Aircraft crossing the runway could cause interference to the ILS signal that may result in significant ILS signal deviations.

BIRD STATUS

- (1) In accordance with CLSK IS OPS 0008 5.4 Vogelstatus, a bird migration warning (birdtam) will be issued and published in OMIS;
- (2) In case of a bird strike risk intensity of 5 or higher TWR will inform RAPCON South;
- (3) The Bird Control Unit (BCU) will issue a local bird strike warning. Outside UDP or in case Of absence of a certified BCU the local bird strike warning will be at least 'alert';

- (4) In case of a local bird strike warning 'critical' the BCU shall advise TWR on the safest pattern to fly. ATIS (126.030) will inform aircrew with the text 'high bird intensity' and TWR will inform military traffic;
- (5) The local bird strike warning is equal to or higher than the national bird migration warning.

LOCAL NATIONAL RESTRICTIONS

| | |
|-----------------|---|
| NORMAL | less than 5 None |
| ALERT | 5 or 6 None, however be aware of increased bird intensity |
| CRITICAL | Full stop landing mandatory No touch-and-go or low approaches No formation take offs and landings |

PROCEDURES

CONVENTIONAL AIRCRAFT

Conventional aircraft will join the circuit in accordance with instructions given by TWR, depending on their position and other traffic in the circuit;

Standard circuit altitude is 1500 ft;

For an overhead circuit, conventional aircraft are to enter the CTR to initial point (IP) at 1500 ft;

IP runway 03 is situated 4NM final;

For runway 03 a left-hand overhead circuit will be flown around the village of Wintelre;

IP runway 21 is situated 5NM final;

For runway 21 a right-hand overhead circuit will be flown inside the village of Best;

C130 aircraft will descend to 1000 ft from IP to the overhead break.

FIGHTER JETS

For an overhead circuit, fighter jet aircraft are to enter the CTR to initial point (IP) at 1500 ft;

IP runway 03 is situated 4NM final;

For runway 03 a left-hand overhead circuit will be flown around the village of Wintelre;

IP runway 21 is situated 5NM final;

For runway 21 a right-hand overhead circuit will be flown inside the village of Best;

Overhead circuit will be flown at 1500 ft;

Approaching from the southeast, a right turn for IP runway 03 or a left turn for IP runway 21 can be allowed by TWR;

Slow lane will be issued by TWR together with the landing clearance.

CIRCUIT PROCEDURES

GENERAL

Non home-based aircraft are limited to a maximum of 2 approaches per flight (Excluded are NL Coast Guard aircraft, RNLAf and KLPD helicopters);

Practice approaches are allowed on Monday till Thursday from 06:00Z - 20:00Z (07:00Z - 21:00Z) and on Friday from 06:00Z - 15:00Z (07:00Z - 16:00Z).

Practice approaches are not allowed during weekends and/or public holidays;

Practice approaches only after permission of ATC and depending on traffic.

CONVENTIONAL AIRCRAFT

The visual circuit will be flown on the northwest side of the airfield around the villages of Wintelre and Best;

Standard circuit altitude is 1500 ft.

FIGHTER JETS

For runway 03 close circuit will be flown inside the village of Best, with a base leg outside the village of Wintelre;

For runway 21 a close circuit will be flown at least 1000 ft around the village of Wintelre, with a base leg inside the village of Best;

Standard circuit altitude is 1500 ft;

Returning initial runway 03 via at least 4NM runway track followed by a left turn to initial;

Returning initial runway 21 via at least 3NM runway track followed by a right turn to initial;

VFR (S)FO patterns in accordance with SOPs.

HELICOPTERS

Standard circuit altitude is 600 ft;

Circuit runway 03 is left-hand;

Circuit runway 21 is right-hand;

The village of Wintelre has to be avoided;

Only one helicopter is allowed in the circuit;

Circuits are allowed for runway 03/21 only;

The following types of approach may be executed:

- Normal landing;
- Roll on landing (simulated single engine);
- Pedal less landing (fixed pitch landing);
- Autorotations;
- Quick stops.

RADAR PATTERNS

Eindhoven runway 21:

Right-hand pattern. Downwind at 2000 ft. Baseleg at 2000 ft. Final according glideslope.

Eindhoven runway 03:

Left-hand pattern. Downwind at 2000 ft. Baseleg at 2000 ft. Final according glideslope.

BREAK-OFF PROCEDURES.

On final approach. Continue inbound or runway track and make altitude 2000 ft. Break-off can be initiated by both TWR and Radar. Immediate coordination between TWR and Radar will take place to fit break-off traffic in the situation.

LOST COMMUNICATION PROCEDURE.

When no transmissions are received for 1 minute in the pattern or 10 seconds on ASR final, proceed to the Final Approach Fix at published altitude for a TACAN / ILS straight in or continue on TACAN / ILS straight-in and try to contact Eindhoven Arrival or TWR on standard or emergency frequency.

In case of an inbound GAT non comms it is possible for the pilot to contact MilATCC Schiphol by SATCOM or mobile phone. Check the procedure in the emergency checklist at section A 04-03 COMMS FAIL. The Arrival controller will contact TWR controller for landing clearance.

EMERGENCY FUEL PATTERN

(Simulated) Emergency fuel patterns are flown at 1100 ft. In the same direction as the normal radar pattern. (Simulated) Emergency fuel patterns are made as short as possible aiming for approximately 4 NM final. Simulated Emergency fuel patterns are subject to approval by TWR.

ICING PROCEDURES.

Descent during Emergency Operating Procedures

To remain in the icing layer as short as possible a 15° descent is used till 1000 ft AGL. For a 15° descent 0.6 NM is needed per 1000 ft. The aircraft should arrive at 7 DME (4 NM before glide path intercept) at 1000 ft AGL.

NOTE: During expected icing conditions, all missions will execute an Ice Fod Alert (IFA) check.

NOTE: When aircraft is below icing level, ATC will order pilot to reduce to normal approach speed in order to maintain an orderly traffic flow.

AIRCRAFT WITH HAZARDOUS CARGO

Aircraft with hazardous cargo will be parked at the hot cargo platform situated at intersection L5 southeast side. IPCC will inform ATC as well as the fire department about the cargo.

DRAG CHUTE/CABLE PROCEDURES

Aircrew shall inform TWR as soon as possible;

Release of the deployed drag chute shall be on the taxi way Romeo. To facilitate a swift and safe removal, drop the drag chute close to the edge of the taxiway;

If unable to release inform TWR and await instructions. On the taxiway release the deployed drag chute when convenient, but as close to the taxiway edge as practicable;

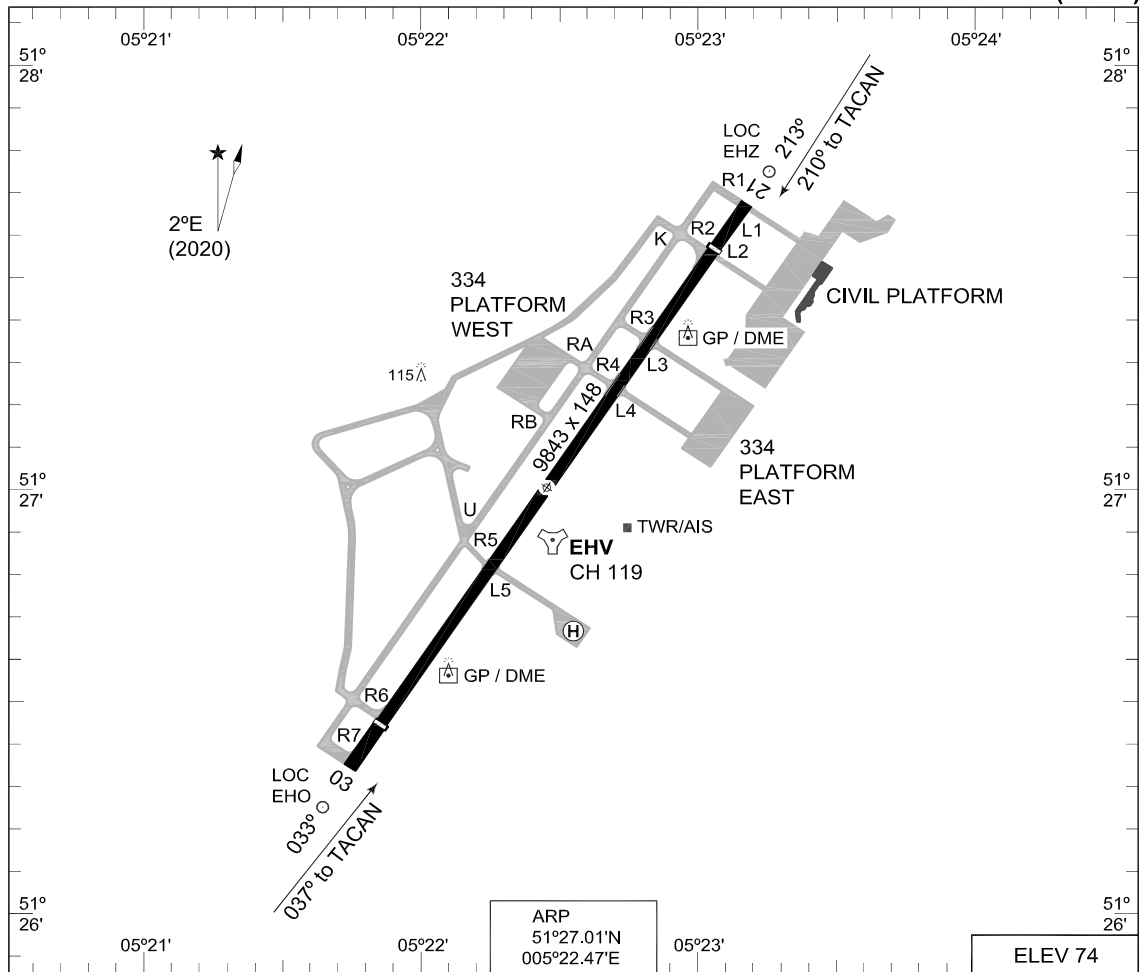
The recovery vehicle shall remove the drag chute from the runway as soon as possible.

EHEH AD 2.24 Charts related to an aerodrome

| | |
|--|--------------|
| Aerodrome Chart | EHEH AD 2-15 |
| Local map | EHEH AD 2-16 |
| MVA chart | EHEH AD 2-17 |
| Instrument departure chart EH1 | EHEH AD 2-18 |
| Instrument departure chart EH3 | EHEH AD 2-19 |
| Instrument departure chart EH5 | EHEH AD 2-20 |
| Instrument departure chart EH7 | EHEH AD 2-21 |
| Instrument approach chart HI-ILS or LOC RWY 03 | EHEH AD 2-22 |
| Instrument approach chart ILS Z or LOC RWY 03 | EHEH AD 2-23 |
| Instrument approach chart HI-TACAN RWY 03 | EHEH AD 2-24 |
| Instrument approach chart TACAN RWY 03 | EHEH AD 2-25 |
| Instrument approach chart RNP Z RWY 03 | EHEH AD 2-26 |
| Instrument approach chart HI-ILS or LOC RWY 21 | EHEH AD 2-27 |
| Instrument approach chart ILS Z or LOC RWY 21 | EHEH AD 2-28 |
| Instrument approach chart HI-TACAN RWY 21 | EHEH AD 2-29 |
| Instrument approach chart TACAN RWY 21 | EHEH AD 2-30 |
| Instrument approach chart RNP Z RWY 21 | EHEH AD 2-31 |

**MIPS
AERODROME CHART**

EINDHOVEN (EHEH)



ARP
51°27.01'N
005°22.47'E

ELEV 74

| RWY | PCN | TORA | ASDA | TODA | LDA | PAPI | THR ELEV | THR PSN |
|-----|------------|------|------|-------|------|------|----------|------------------------|
| 21 | 62 F/A/W/T | 9843 | 9843 | 10039 | 9022 | 3.0° | 67 | 51°27.56'N 005°23.09'E |
| 03 | 62 F/A/W/T | 9843 | 9843 | 10039 | 9022 | 3.0° | 74 | 51°26.45'N 005°21.85'E |

| | | | | | |
|-------------------|---------|---------|------------------|---------|---------|
| EINDHOVEN TWR | 241.550 | 131.005 | (Ground Control) | 335.750 | 121.930 |
| EINDHOVEN ARRIVAL | 265.975 | 124.530 | | | |
| RAPCON SOUTH | 388.525 | 123.180 | | | |

| PROC. CRITERIA | RWY | GS | TCH | OTCH | RPI | CAT | MINIMA CRITERIA | MINIMA |
|----------------|-----|----|-----|------|-----|-----|-----------------|--------|
| | | | | | | | | |

CHANGES: DELETE SRA

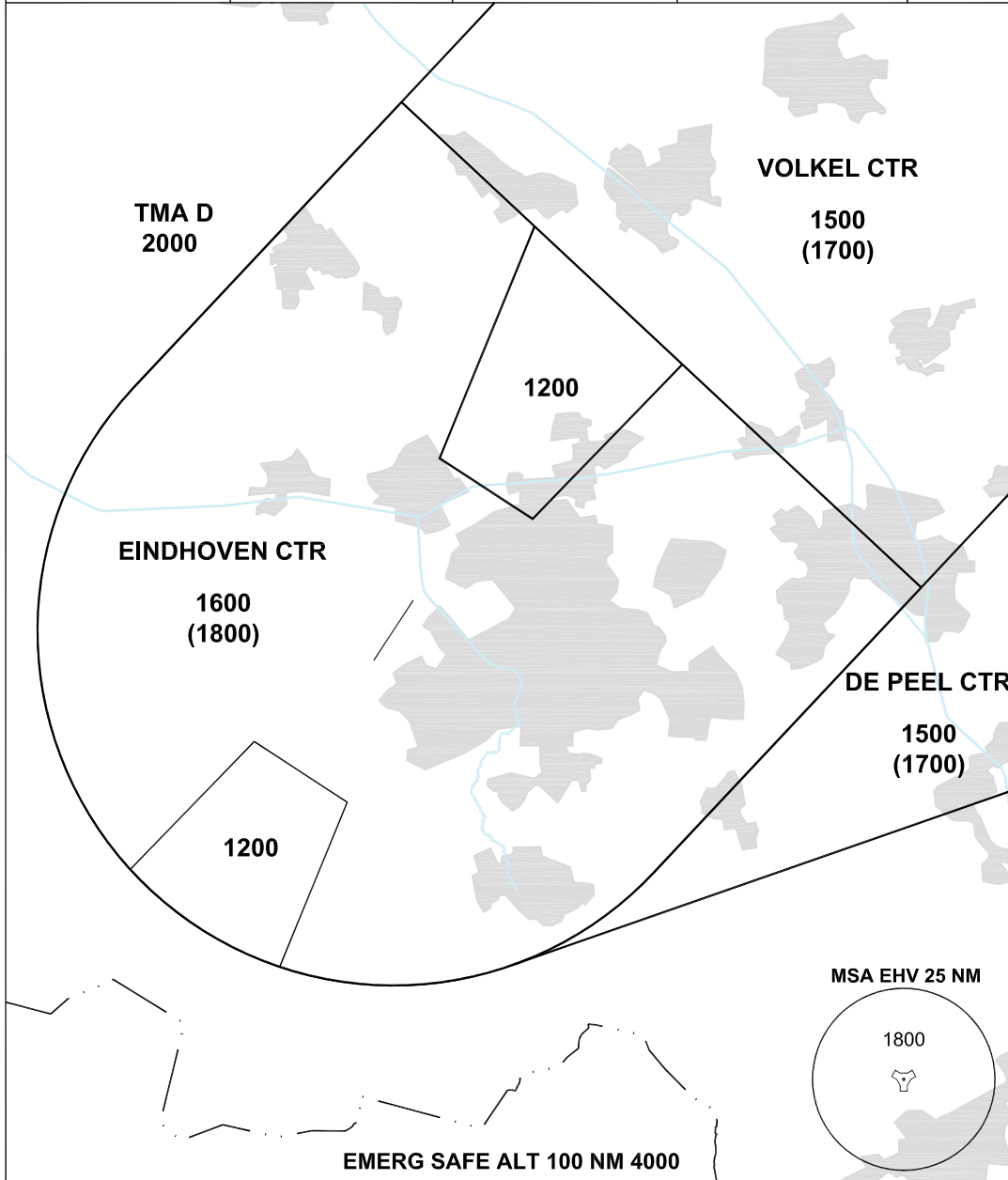
RNLAF 24 FEB 2022

LOCAL MAP

See: AIP NL EH-AD-2 EHEH-VAC-1

MIPS **MINIMUM VECTORING ALTITUDE** AD ELEV 74 **MVA CHART**
EINDHOVEN (EHEH)

| DUTCH MIL | | RAPCON SOUTH | | EINDHOVEN TWR | | GND CTL | | ATIS* |
|-----------|---------|--------------|---------|---------------|---------|---------|---------|---------|
| 336.325 | 125.930 | 388.525 | 123.180 | 241.550 | 131.005 | 335.750 | 121.930 | 126.030 |



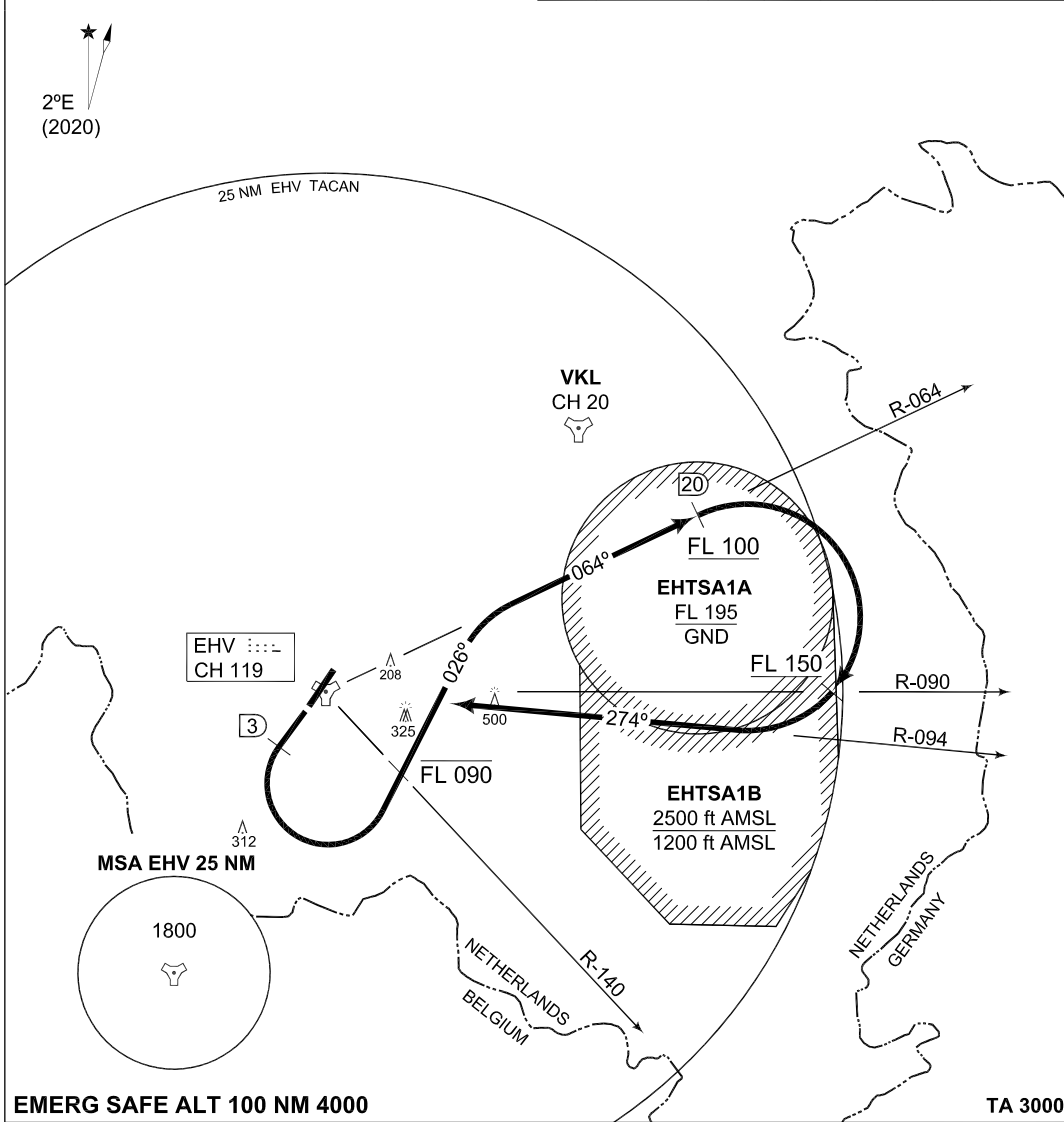
CHANGES: EDITORIAL

- THE ALTITUDE BETWEEN BRACKETS IS TO BE USED FOR THE CORRESPONDING SECTOR WHEN AIR TEMPERATURE AT AIRBASE ALTITUDE IS LOWER THAN -16°.
- ALTITUDES ONLY AVAILABLE IF THE RADAR COVERAGE PERMITS.

RNLAF 30 DEC 2021

MIPS INSTRUMENT DEPARTURE CHART **EH1 EINDHOVEN (EHEH)**

| | | | | | | | | | | | | | |
|----------------------------|----------------------------------|------------|-----------|-----|-----|---------------------------------|------|------|----------------|------------------------------|--|--|--|
| GND CTL 335.750 121.930 | EINDHOVEN TWR 241.550 131.005 | AD ELEV 74 | | | | RAPCON SOUTH 388.525 123.180 | | | | DUTCH MIL 336.325 125.930 | | | |
| | | RWY | Knots | 120 | 180 | 240 | 300 | 360 | to | | | | |
| | | 21 | V/V (fpm) | 500 | 750 | 1000 | 1250 | 1500 | 3000 ft | | | | |
| | | | V/V (fpm) | 600 | 900 | 1200 | 1500 | 1800 | FL 150 | | | | |



EINDHOVEN 1 (RWY 21)

- Climb straight ahead.
- At 3 DME and at least at 1000 ft from Eindhoven TACAN turn left, heading 026° to intercept R-064 outbound.
- **FLIGHT LEVEL RESTRICTION:** Cross R-140 at FL 090 or below.
- At 20 DME turn right to intercept R-094 inbound Eindhoven TACAN.
- **FLIGHT LEVEL RESTRICTION:** Pass 20 DME/R-064 at FL 100 or above, cross R-090 at FL 150 or above.

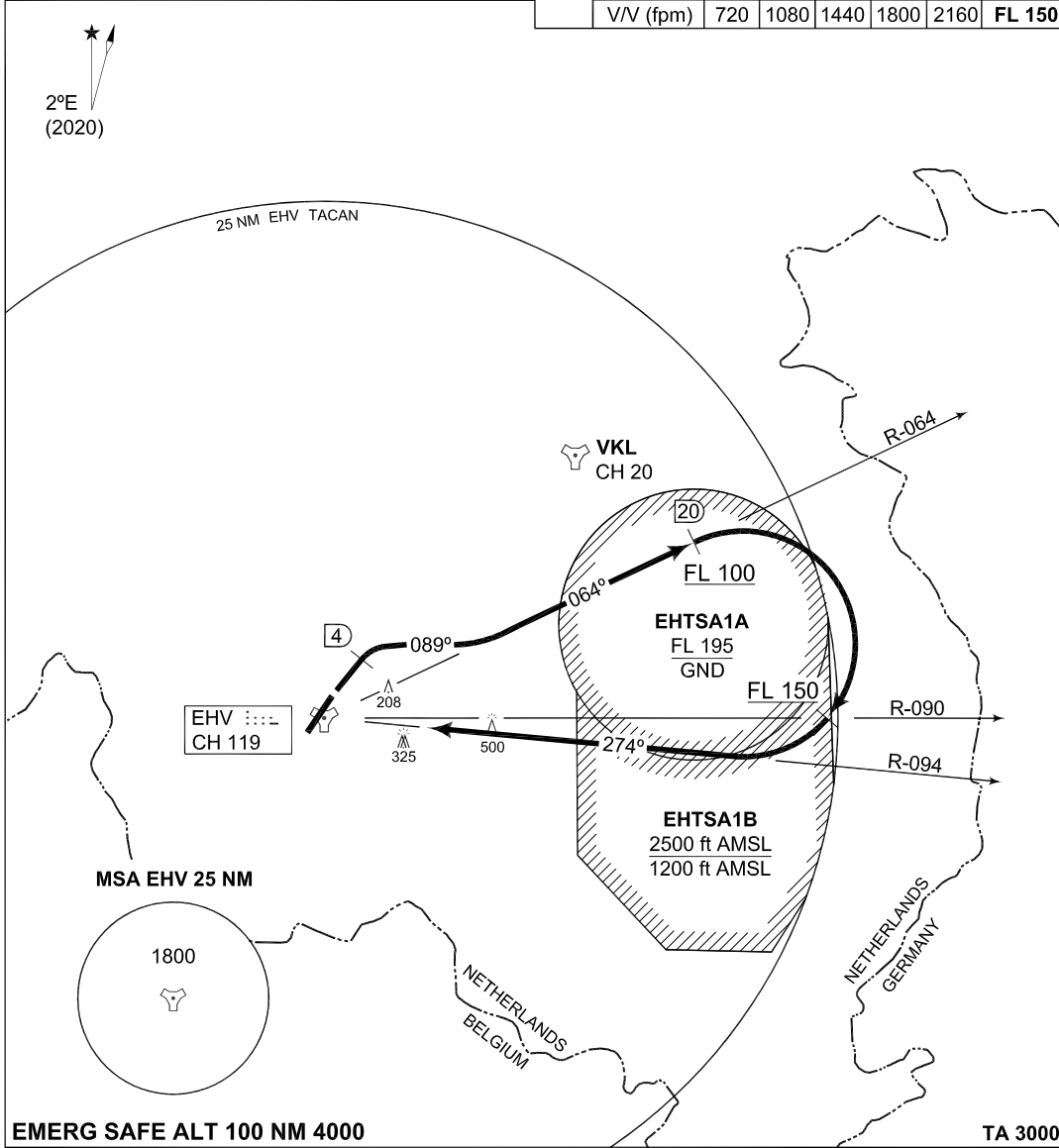
CHANGES: MSA RNLAJ 09 SEP 2021

**MIPS
INSTRUMENT DEPARTURE CHART**

**EH3
EINDHOVEN (EHEH)**

AD ELEV 74

| | | | | | | | | | | | |
|----------------------------|-----------|----------------------------------|------|---------------------------------|------|------|---------------|------------------------------|--|--|--|
| GND CTL 335.750 121.930 | | EINDHOVEN TWR 241.550 131.005 | | RAPCON SOUTH 388.525 123.180 | | | | DUTCH MIL 336.325 125.930 | | | |
| RWY 03 | | Knots | 120 | 180 | 240 | 300 | 360 | to | | | |
| | V/V (fpm) | 960 | 1440 | 1920 | 2400 | 2880 | FL 100 | | | | |
| | V/V (fpm) | 720 | 1080 | 1440 | 1800 | 2160 | FL 150 | | | | |



EMERG SAFE ALT 100 NM 4000

TA 3000

| | |
|-------------------------|---|
| EINDHOVEN 3 (RWY 03) | <ul style="list-style-type: none"> - Climb straight ahead. - At 4 DME and at least at 1000 ft from Eindhoven TACAN turn right, heading 089° to intercept R-064 outbound. - At 20 DME turn right to intercept R-094 inbound Eindhoven TACAN. <p>FLIGHT LEVEL RESTRICTION: Pass 20 DME/R-064 at FL 100 or above, cross R-090 at FL 150 or above.</p> |
| | <p>NOTE: ATC required minimum climb rate exceeds 300 ft/NM.</p> |

CHANGES: MSA

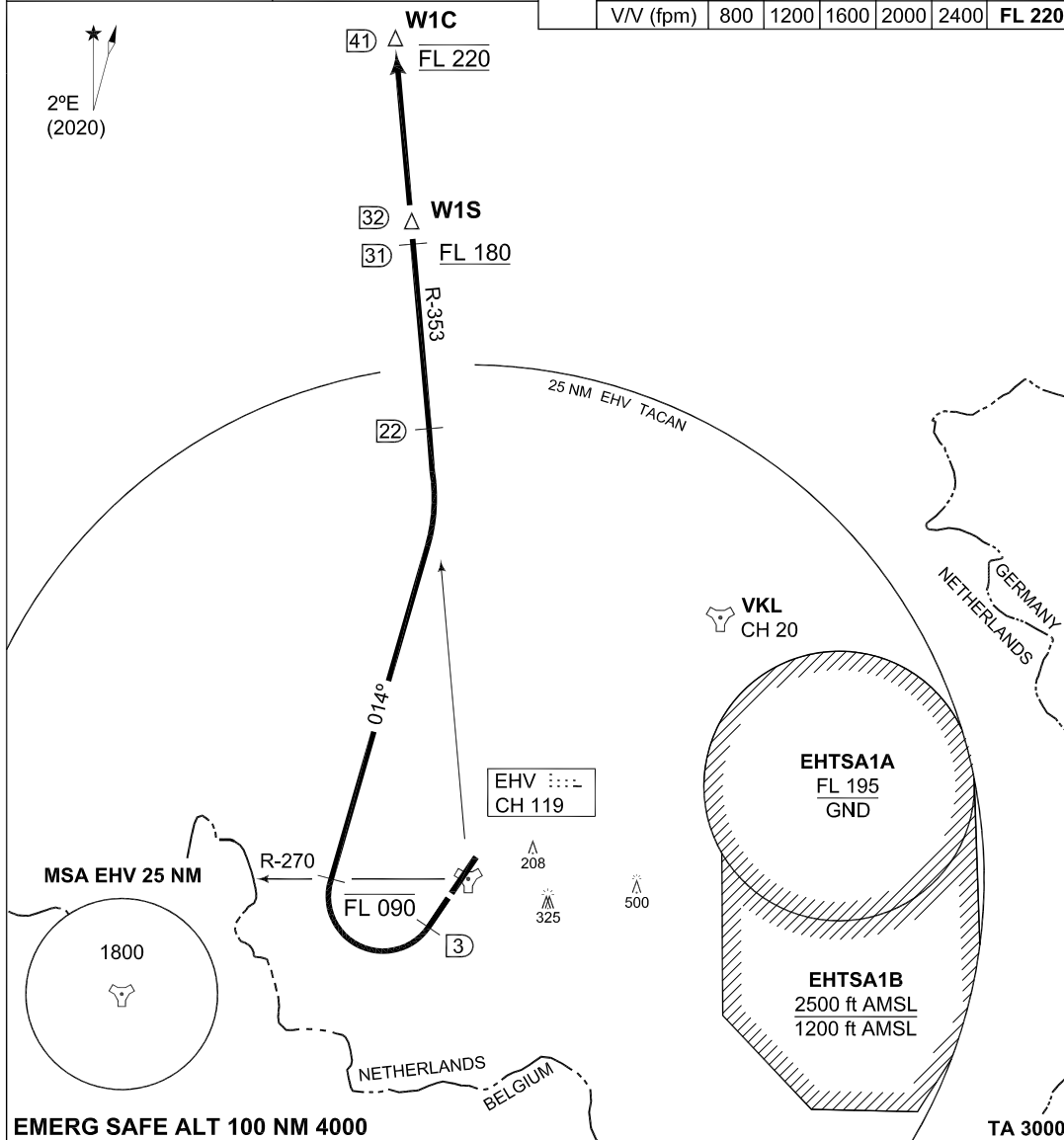
RNLAf 09 SEP 2021

**MIPS
INSTRUMENT DEPARTURE CHART**

**EH5
EINDHOVEN (EHEH)**

AD ELEV 74

| | | | | | | | | | | | |
|--------------------------------------|--|----------------------------------|--|---------------------------------|-----------|-----|------|------------------------------|------|------|---------------|
| GND CTL 335.750 121.930 | | EINDHOVEN TWR 241.550 131.005 | | RAPCON SOUTH 388.525 123.180 | | | | DUTCH MIL 336.325 125.930 | | | |
| EINDHOVEN ARRIVAL 265.975 124.530 | | | | RWY | Knots | 120 | 180 | 240 | 300 | 360 | to |
| | | | | 21 | V/V (fpm) | 860 | 1290 | 1720 | 2150 | 2580 | FL 180 |
| | | | | | V/V (fpm) | 800 | 1200 | 1600 | 2000 | 2400 | FL 220 |



EMERG SAFE ALT 100 NM 4000 **TA 3000**

| | |
|---------------------------------|--|
| EINDHOVEN 5 (RWY 21) | <ul style="list-style-type: none"> - Climb straight ahead to 3 DME from Eindhoven TACAN (EHV). - Turn right heading 014° to intercept EHV R-353 outbound. - FLIGHT LEVEL RESTRICTION: Cross EHV R-270 at FL 090 or below. - Cross EHV R-353 outbound, 31 DME at FL 180 or above. - Cross EHV R-353 outbound, 41 DME at FL 220, unless instructed otherwise by ATC. |
|---------------------------------|--|

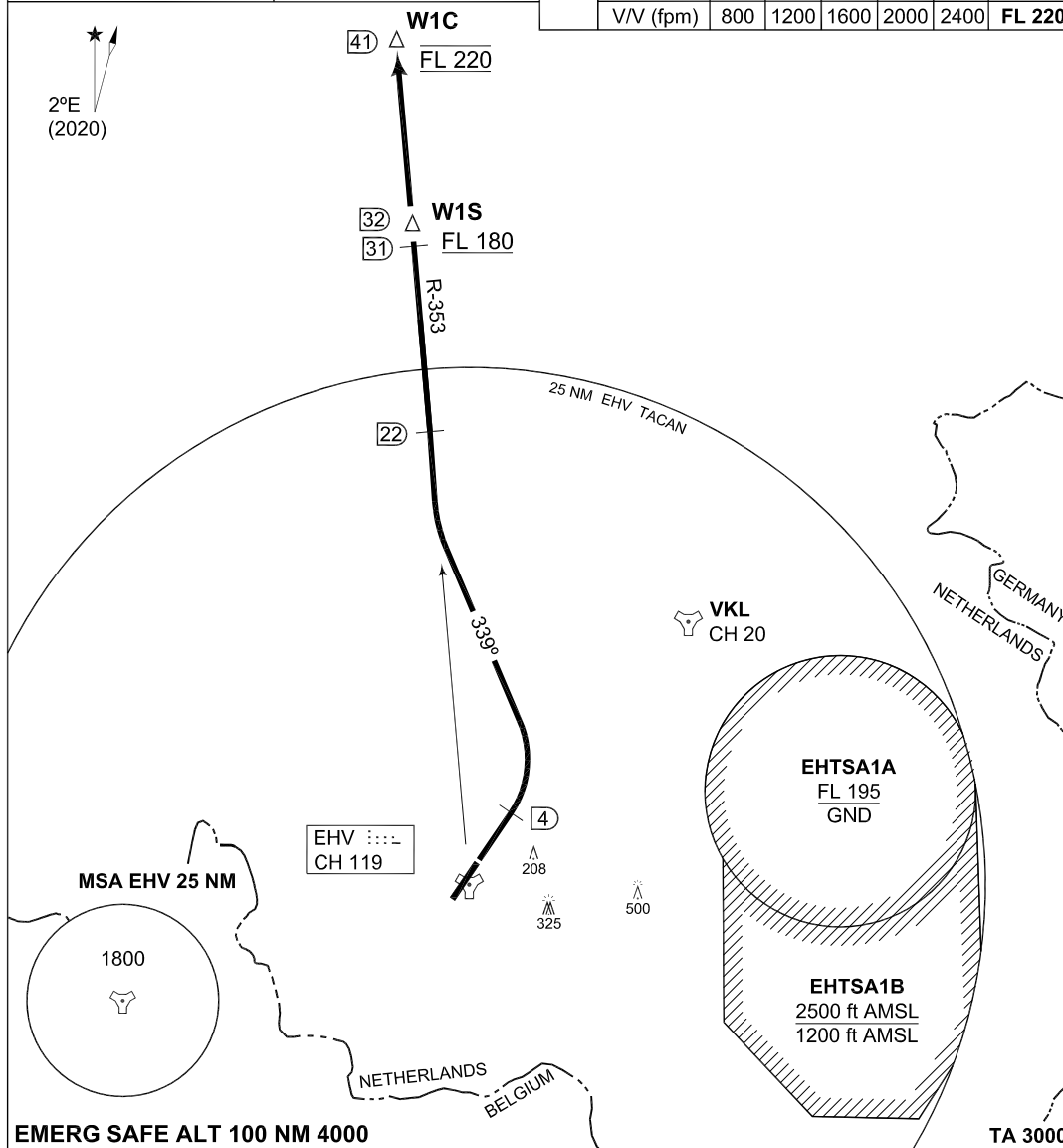
| | |
|---------------|---|
| NOTES: | <ul style="list-style-type: none"> - Departure end crossing height: RWY 21: 74 ft. - If no radiocontact with Dutch Mil at EHV 22 DME turn right inbound EHV TACAN and contact RAPCON SOUTH. |
|---------------|---|

CHANGES: MSA

RNLAf 09 SEP 2021

MIPS INSTRUMENT DEPARTURE CHART **EH7 EINDHOVEN (EHEH)**

| | | | |
|--------------------------------------|----------------------------------|---------------------------------|------------------------------|
| GND CTL 335.750 121.930 | EINDHOVEN TWR 241.550 131.005 | RAPCON SOUTH 388.525 123.180 | DUTCH MIL 336.325 125.930 |
| EINDHOVEN ARRIVAL 265.975 124.530 | | RWY | to |
| | | 03 | FL 180 |
| | | V/V (fpm) | FL 220 |
| | | V/V (fpm) | |
| | | 120 | 180 |
| | | 240 | 300 |
| | | 360 | 2400 |



EMERG SAFE ALT 100 NM 4000 **TA 3000**

| | |
|----------------------|---|
| EINDHOVEN 7 (RWY 03) | <ul style="list-style-type: none"> - Climb straight ahead to 4 DME from Eindhoven TACAN (EHV). - Turn left heading 339° to intercept EHV R-353 outbound. - Cross EHV R-353 outbound, 31 DME at FL 180 or above. - Cross EHV R-353 outbound, 41 DME at FL 220, unless instructed otherwise by ATC. |
|----------------------|---|

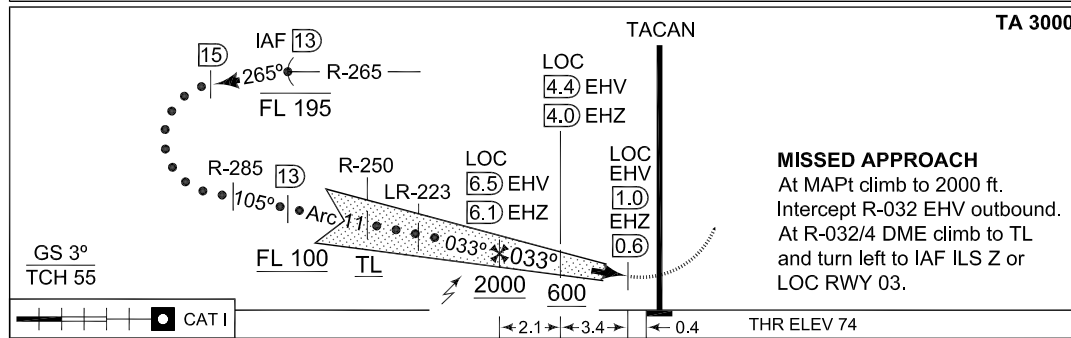
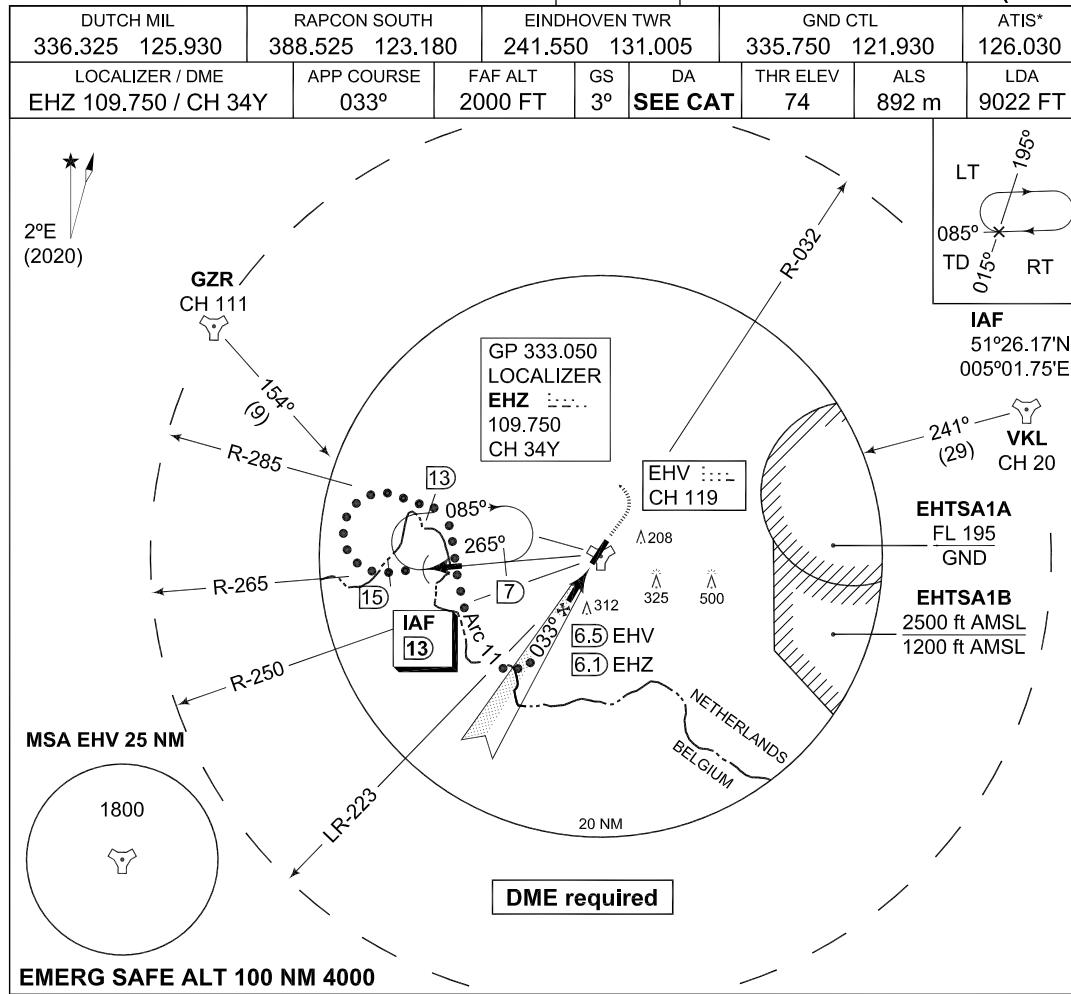
NOTES:

- Departure end crossing height: RWY 03: 66 ft.
- If no radiocontact with Dutch Mil at EHV 22 DME turn right inbound EHV TACAN and contact RAPCON SOUTH.

CHANGES: MSA

RNLAf 09 SEP 2021

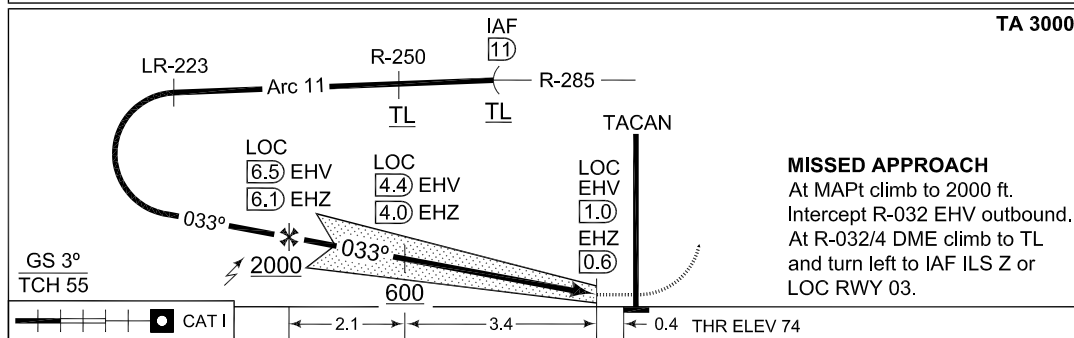
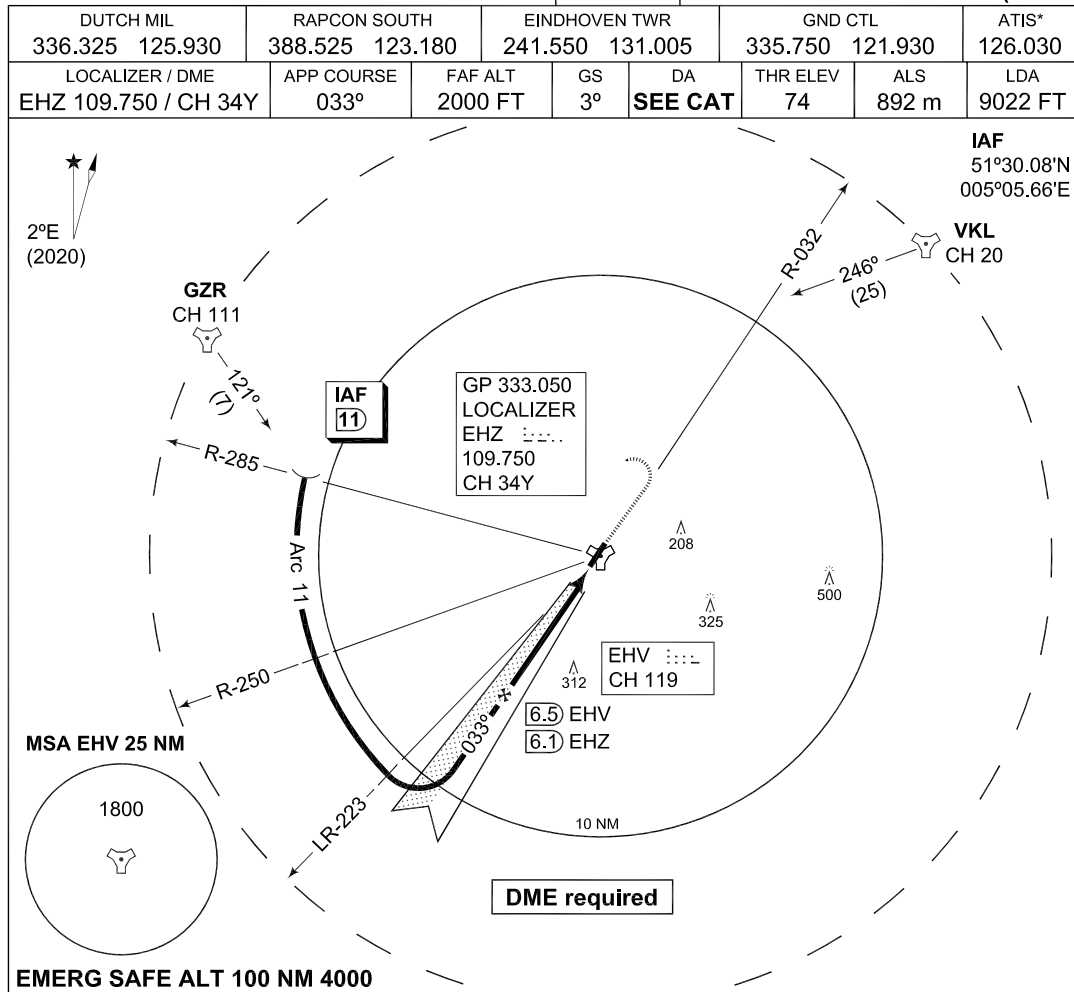
MIPS INSTRUMENT APPROACH CHART **HI-ILS or LOC RWY 03 EINDHOVEN (EHEH)**



| CATEGORY | C | D | E |
|----------|-------------------------------|--------------------------------|-------------------------------|
| S-ILS 03 | 274 -800 200 (200-0.8) | | 288 -800 214 (300-0.8) |
| S-LOC 03 | 420 -800 346 (400-0.8) | 420 -1200 346 (400-1.2) | |
| CIRCLING | NOT AUTHORIZED | | |

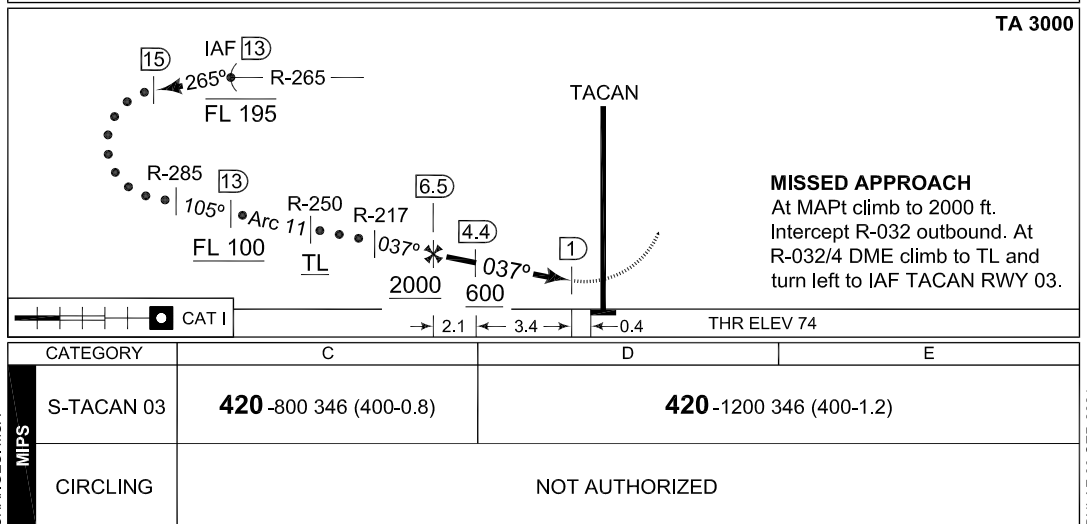
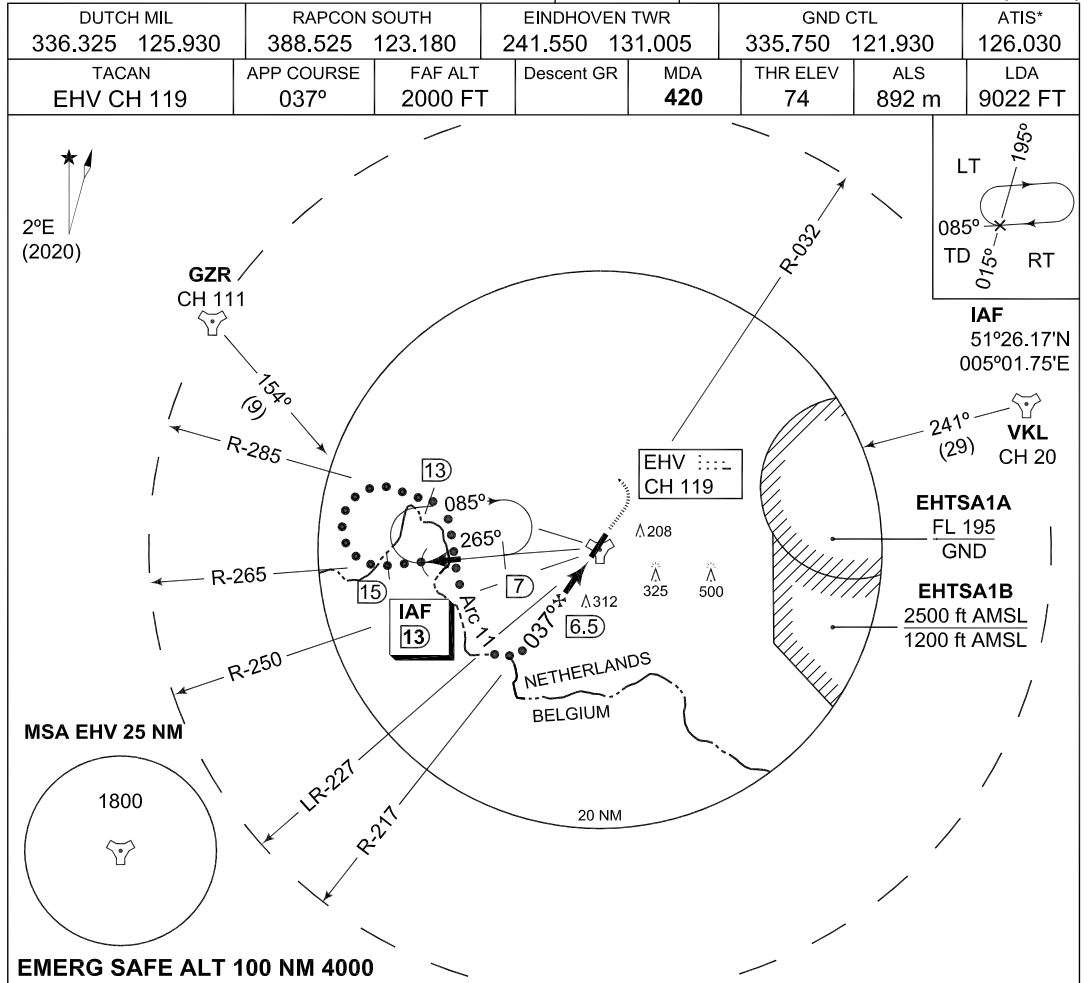
CHANGES: MSA RNLAF 09 SEP 2021

MIPS INSTRUMENT APPROACH CHART **ILS Z or LOC RWY 03 EINDHOVEN (EHEH)**



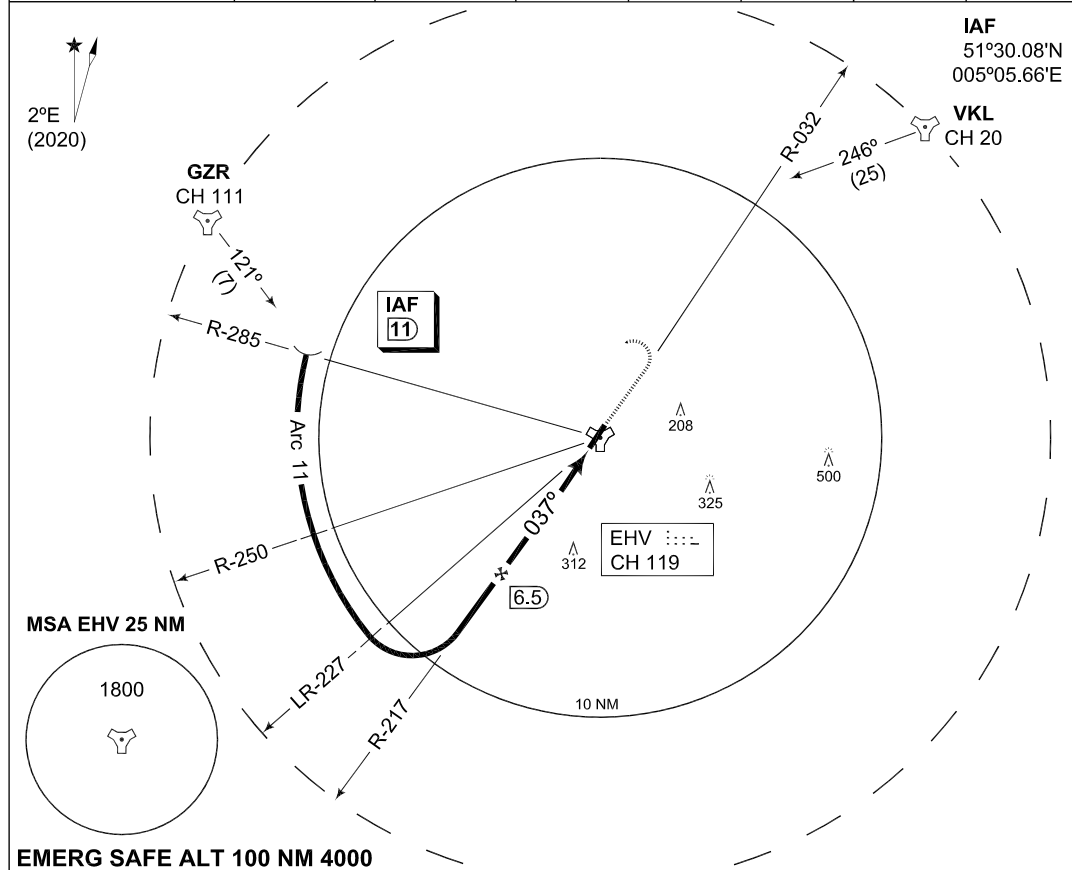
| CATEGORY | A | B | C | D | E |
|----------|-------------------------------|---|--------------------------------|---|-------------------------------|
| S-ILS 03 | 274 -800 200 (200-0.8) | | | | 288 -800 214 (300-0.9) |
| S-LOC 03 | 420 -800 346 (400-0.8) | | 420 -1200 346 (400-1.2) | | |
| CIRCLING | NOT AUTHORIZED | | | | |

MIPS INSTRUMENT APPROACH CHART **HI-TACAN RWY 03 EINDHOVEN (EHEH)**

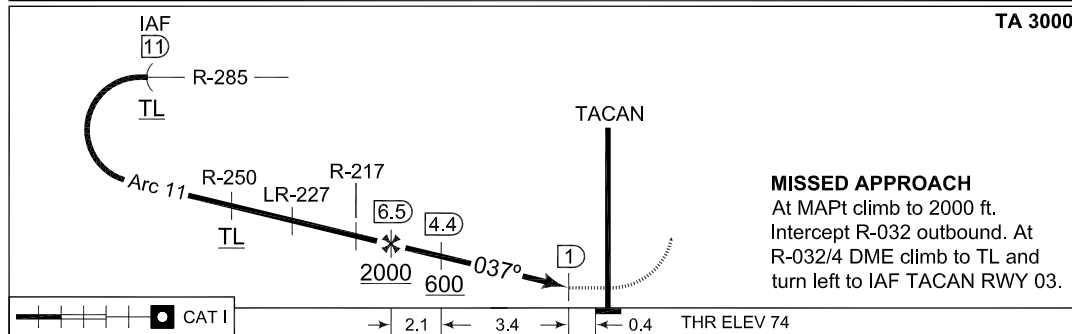


MIPS INSTRUMENT APPROACH CHART **TACAN RWY 03 EINDHOVEN (EHEH)**

| | | | | | | | | | |
|------------------------------|--|---------------------------------|--|----------------------------------|--|----------------------------|--|-------------------|--|
| DUTCH MIL 336.325 125.930 | | RAPCON SOUTH 388.525 123.180 | | EINDHOVEN TWR 241.550 131.005 | | GND CTL 335.750 121.930 | | ATIS* 126.030 | |
| TACAN EHV CH 119 | | APP COURSE 037° | | FAF ALT 2000 FT | | Descent GR 5.24% | | MDA 420 | |
| | | | | | | THR ELEV 74 | | ALS 892 m | |
| | | | | | | | | LDA 9022 FT | |



EMERG SAFE ALT 100 NM 4000



| | | | | | |
|------------|-------------------------------|-----|-----|--------------------------------|-------------|
| | CAT I | 2.1 | 3.4 | 0.4 | THR ELEV 74 |
| CATEGORY | A | B | C | D | E |
| S-TACAN 03 | 420 -800 346 (400-0.8) | | | 420 -1200 346 (400-1.2) | |
| CIRCLING | NOT AUTHORIZED | | | | |

CHANGES: MSA

MIPS

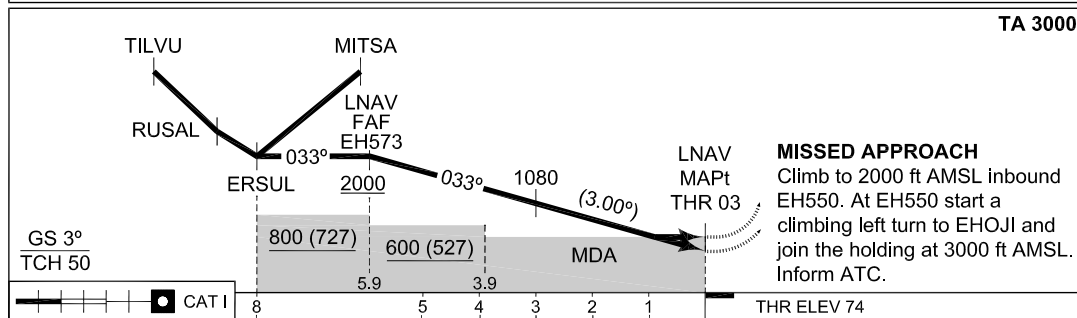
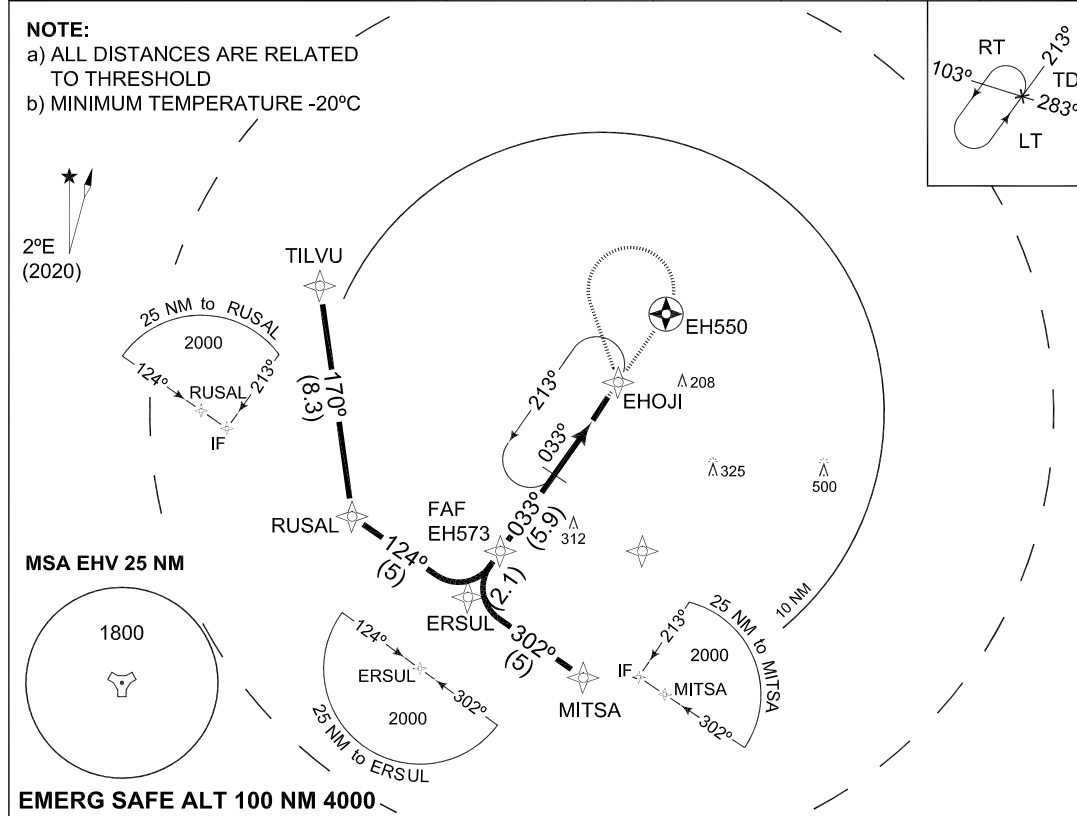
RNLAf 03 SEP 2021

PANS OPS INSTRUMENT APPROACH CHART **RNP Z RWY 03 EINDHOVEN (EHEH)**

| | | | | | | | | | |
|------------------------------|--|---------------------------------|--|----------------------------------|--|----------------------------|--|-------------------|--|
| DUTCH MIL 336.325 125.930 | | RAPCON SOUTH 388.525 123.180 | | EINDHOVEN TWR 241.550 131.005 | | GND CTL 335.750 121.930 | | ATIS* 126.030 | |
| EGNOS CHANNEL 89942 E03A | | APP COURSE 033° | | FAF ALT 2000 FT | | Descent GR 5.24% / 3° | | MDA 420 | |
| | | | | | | DA SEE CAT | | THR ELEV 74 | |
| | | | | | | ALS 892 m | | LDA 9022 FT | |

NOTE:

- a) ALL DISTANCES ARE RELATED TO THRESHOLD
- b) MINIMUM TEMPERATURE -20°C

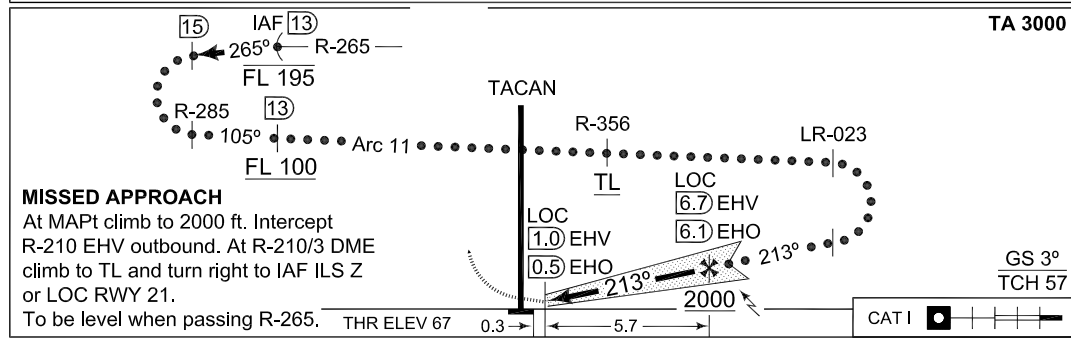
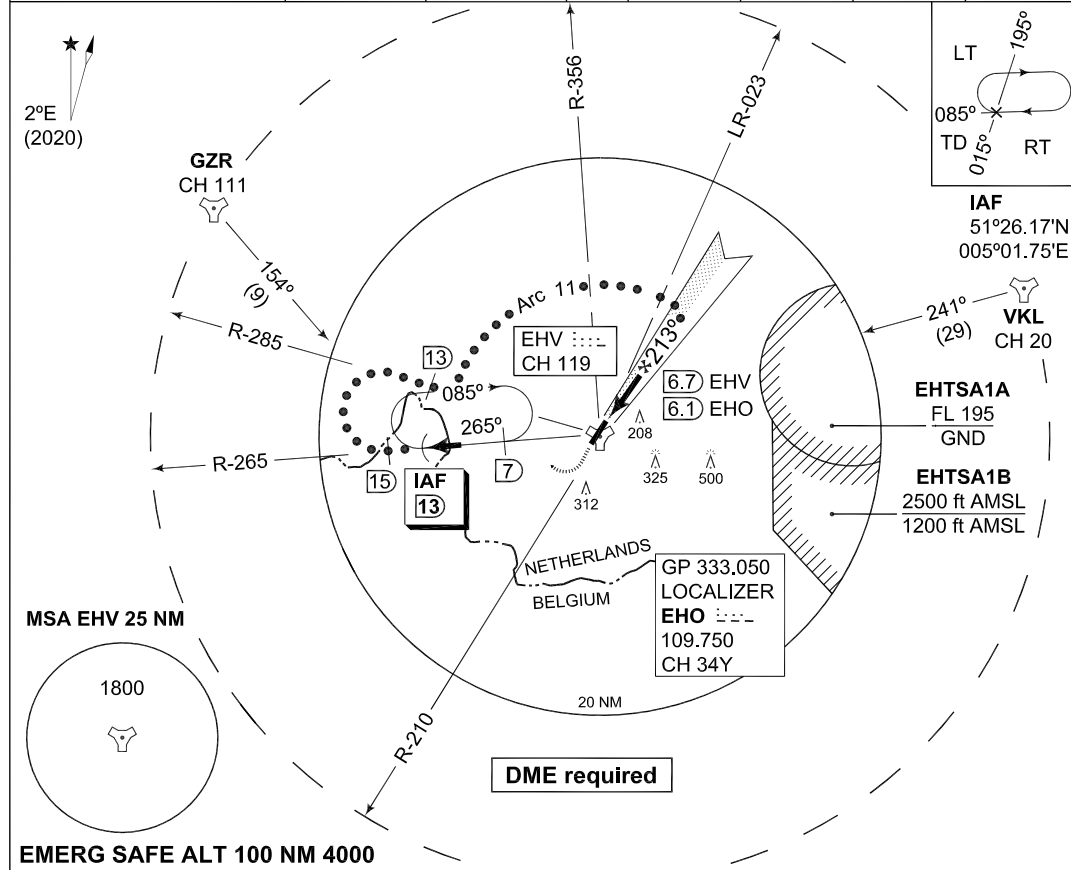


| | | | | | | |
|---------------|-------------------|-----------------------------------|-------------|-------|-----------------------------------|------------------------|
| EU-OPS | DA(H) LPV | 274 -550 200 (200-0.8/1.2) | | | 278 -550 204 (300-0.8/1.2) | |
| | DA(H) LNAV / VNAV | 324 -550 250 (300-0.8/1.3) | | | 329 -600 255 (300-0.8/1.3) | |
| | MDA(H) LNAV | 420 -900 346 (400-0.9/1.6) | | | | |
| | CATEGORY | A | | B | | C |
| IAWP | TILVU | 51°31.07'N | 005°06.23'E | FAWP | EH573 | 51°21.63'N 005°16.46'E |
| WP | RUSAL | 51°22.85'N | 005°08.09'E | MAWP | THR 03 | 51°26.45'N 005°21.85'E |
| IAWP | MITSA | 51°17.13'N | 005°21.16'E | MATWP | EH550 | 51°30.21'N 005°26.06'E |
| IWP | ERSUL | 51°19.91'N | 005°14.54'E | HF | EHOJI | 51°28.07'N 005°23.69'E |

MIPS INSTRUMENT APPROACH CHART **HI-ILS or LOC RWY 21 EINDHOVEN (EHEH)**

| | | | | |
|------------------------------|---------------------------------|----------------------------------|----------------------------|------------------|
| DUTCH MIL 336.325 125.930 | RAPCON SOUTH 388.525 123.180 | EINDHOVEN TWR 241.550 131.005 | GND CTL 335.750 121.930 | ATIS* 126.030 |
|------------------------------|---------------------------------|----------------------------------|----------------------------|------------------|

| | | | | | | | |
|---|--------------------|--------------------|----------|----------------------|----------------|--------------|----------------|
| LOCALIZER / DME EHO 109.750 / CH 34Y | APP COURSE 213° | FAF ALT 2000 FT | GS 3° | DA SEE CAT | THR ELEV 67 | ALS 869 m | LDA 9022 FT |
|---|--------------------|--------------------|----------|----------------------|----------------|--------------|----------------|



| CATEGORY | C | D | E |
|----------|--------------------------------|---|--------------------------------|
| S-ILS 21 | 267 -800 200 (200-0.8) | | 275 -800 208 (300-0.8) |
| S-LOC 21 | 500 -1200 433 (500-1.2) | | 500 -1600 433 (500-1.6) |
| CIRCLING | NOT AUTHORIZED | | |

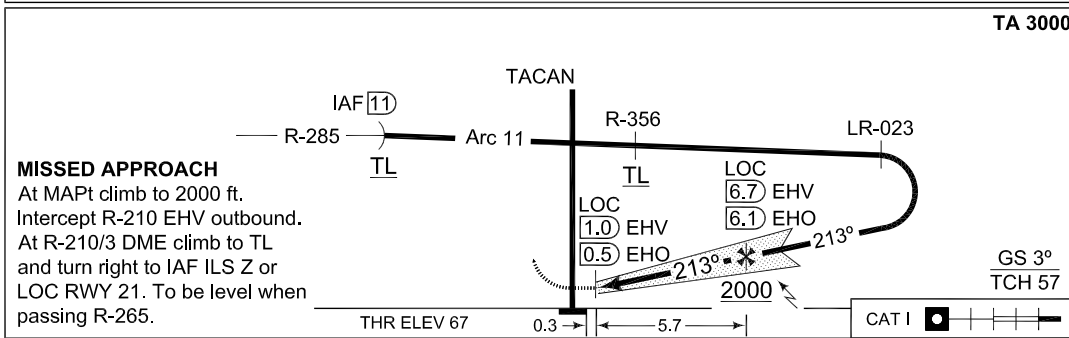
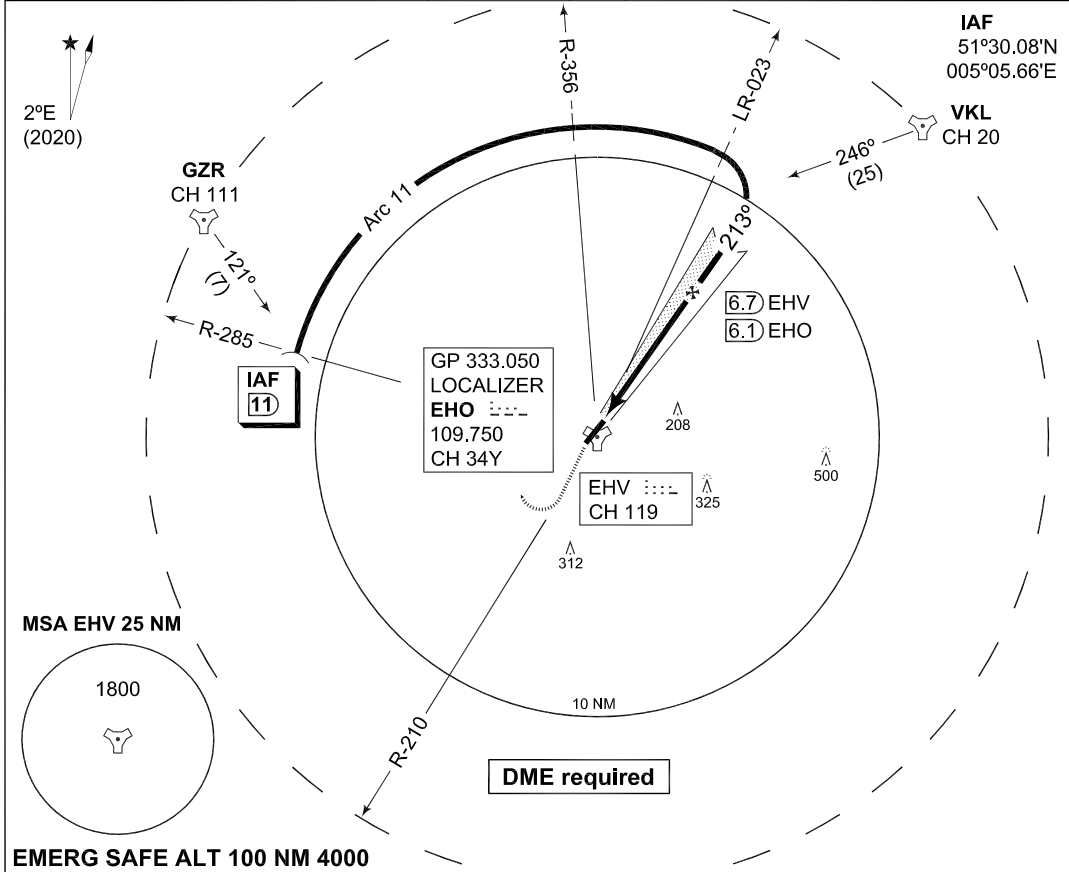
CHANGES: MSA

MIPS

RNLAIF 09 SEP 2021

MIPS INSTRUMENT APPROACH CHART **ILS Z or LOC RWY 21 EINDHOVEN (EHEH)**

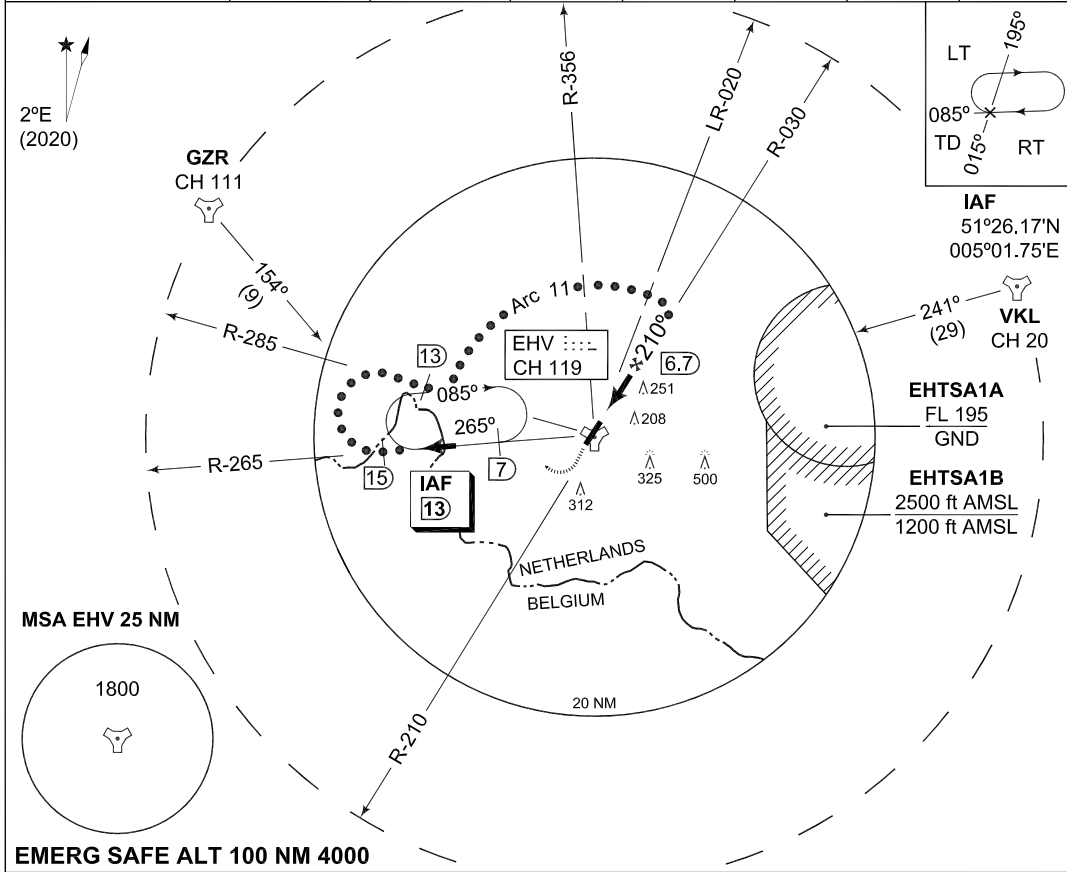
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|---|--|---------------------------------|--------------------|----------------------------------|----------------------|----------------------------|--------------|------------------|--|
| DUTCH MIL 336.325 125.930 | | RAPCON SOUTH 388.525 123.180 | | EINDHOVEN TWR 241.550 131.005 | | GND CTL 335.750 121.930 | | ATIS* 126.030 | |
| LOCALIZER / DME EHO 109.750 / CH 34Y | | APP COURSE 213° | FAF ALT 2000 FT | GS 3° | DA SEE CAT | THR ELEV 67 | ALS 869 m | LDA 9022 FT | |



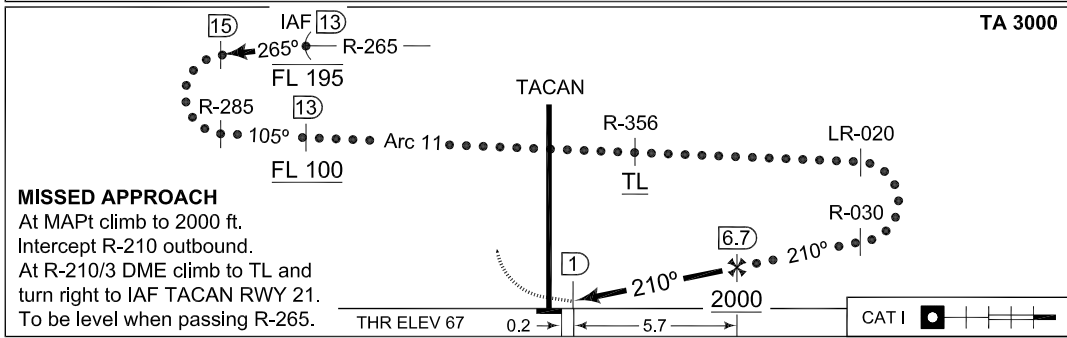
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|-------------------|----------|-------------------------------|--------------------------------|---|--------------------------------|-------------------------------|
| | CATEGORY | A | B | C | D | E |
| CHANGES: MSA MIPS | S-ILS 21 | 267 -800 200 (200-0.8) | | | | 275 -800 208 (300-0.8) |
| | S-LOC 21 | 500 -800 433 (500-0.8) | 500 -1200 433 (500-1.2) | | 500 -1600 433 (500-1.6) | |
| | CIRCLING | NOT AUTHORIZED | | | | |

MIPS INSTRUMENT APPROACH CHART **HI-TACAN RWY 21 EINDHOVEN (EHEH)**

| | | | | | | | | |
|------------------------------|--|---------------------------------|--------------------|----------------------------------|------------|----------------------------|--------------|------------------|
| DUTCH MIL 336.325 125.930 | | RAPCON SOUTH 388.525 123.180 | | EINDHOVEN TWR 241.550 131.005 | | GND CTL 335.750 121.930 | | ATIS* 126.030 |
| TACAN EHV CH 119 | | APP COURSE 210° | FAF ALT 2000 FT | Descent GR 5.24% | MDA 500 | THR ELEV 67 | ALS 869 m | LDA 9022 FT |



EMERG SAFE ALT 100 NM 4000



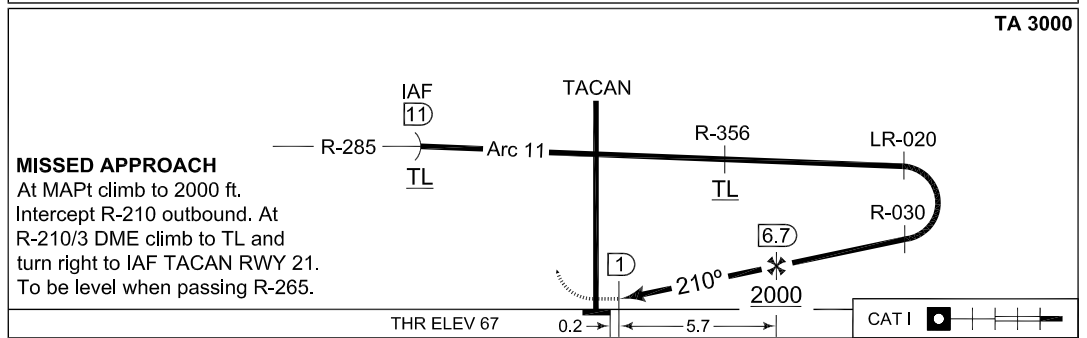
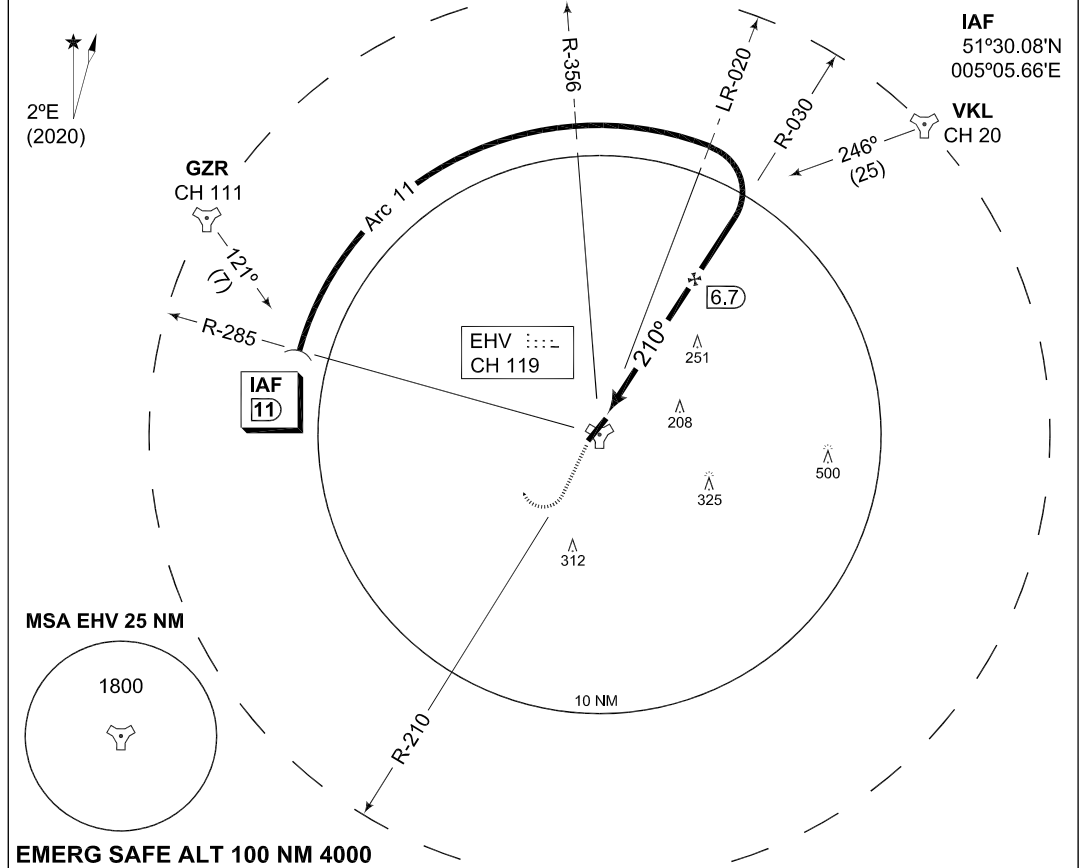
| | | | |
|------------|-------------------------|-------------------------|---|
| CATEGORY | C | D | E |
| S-TACAN 21 | 500 -1200 433 (500-1.2) | 500 -1600 433 (500-1.6) | |
| CIRCLING | NOT AUTHORIZED | | |

CHANGES: MSA
MIPS

RNLAf 09 SEP 2021

MIPS INSTRUMENT APPROACH CHART **TACAN RWY 21 EINDHOVEN (EHEH)**

| | | | | | | | | | |
|------------------------------|--|---------------------------------|--|----------------------------------|--|----------------------------|--|-------------------|--|
| DUTCH MIL 336.325 125.930 | | RAPCON SOUTH 388.525 123.180 | | EINDHOVEN TWR 241.550 131.005 | | GND CTL 335.750 121.930 | | ATIS* 126.030 | |
| TACAN EHV CH 119 | | APP COURSE 210° | | FAF ALT 2000 FT | | Descent GR 5.24% | | MDA 500 | |
| | | | | | | THR ELEV 67 | | ALS 869 m | |
| | | | | | | | | LDA 9022 FT | |



| CATEGORY | A | B | C | D | E |
|------------|-------------------------------|---|--------------------------------|--------------------------------|---|
| S-TACAN 21 | 500 -800 433 (500-0.8) | | 500 -1200 433 (500-1.2) | 500 -1600 433 (500-1.6) | |
| CIRCLING | NOT AUTHORIZED | | | | |

CHANGES: MSA MIPS

RNLAF 09 SEP 2021

**PANS OPS
INSTRUMENT APPROACH CHART**

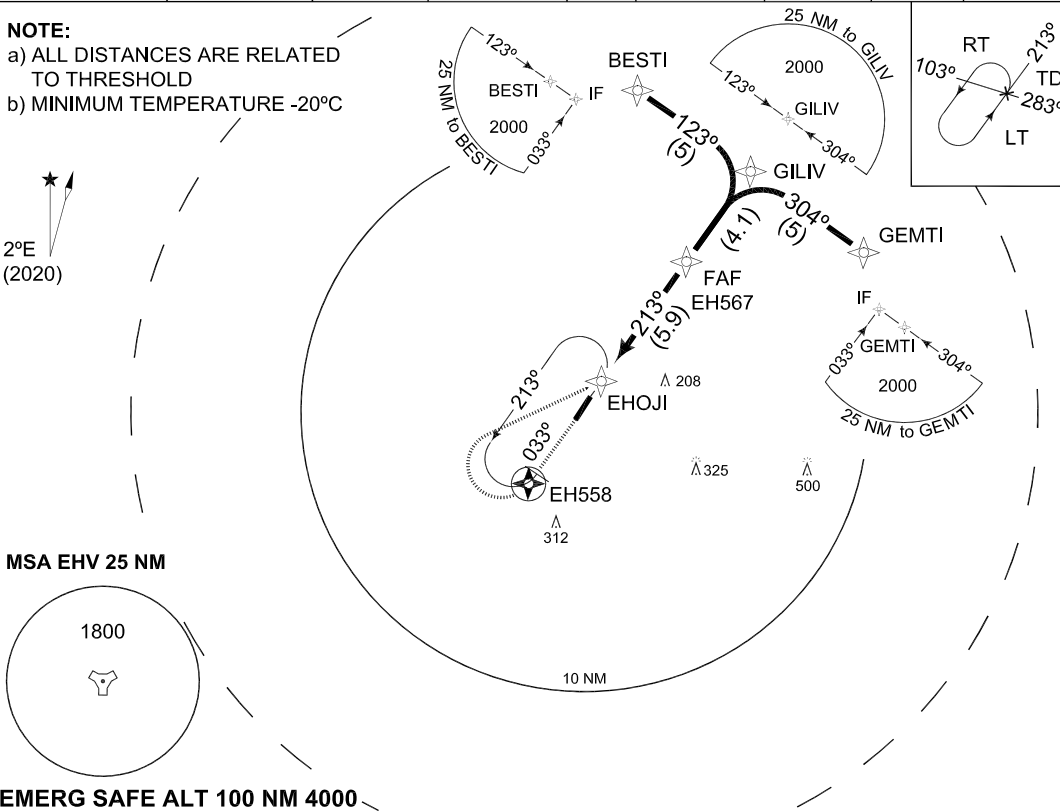
**RNP Z RWY 21
EINDHOVEN (EHEH)**

AD ELEV 74

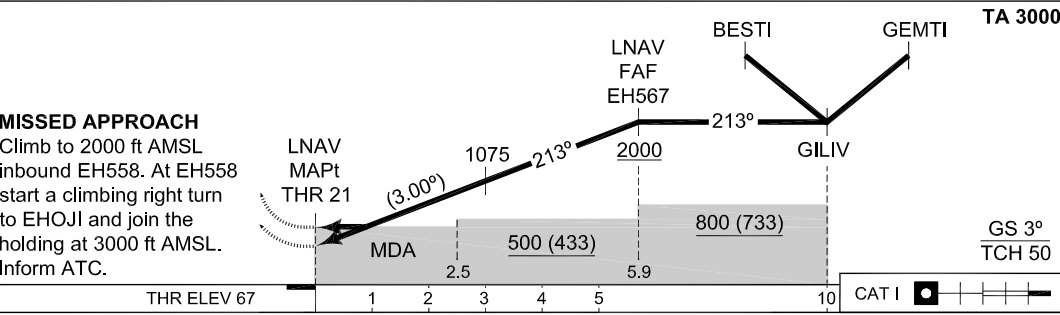
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|------------------------------|--------------------|---------------------------------|--------------------------|----------------------------------|---------------|----------------------------|--------------|------------------|--|
| DUTCH MIL 336.325 125.930 | | RAPCON SOUTH 388.525 123.180 | | EINDHOVEN TWR 241.550 131.005 | | GND CTL 335.750 121.930 | | ATIS* 126.030 | |
| EGNOS CHANNEL 42264 E21A | APP COURSE 213° | FAF ALT 2000 FT | Descent GR 5.24% / 3° | MDA 450 | DA SEE CAT | THR ELEV 67 | ALS 869 m | LDA 9022 FT | |

NOTE:

- a) ALL DISTANCES ARE RELATED TO THRESHOLD
- b) MINIMUM TEMPERATURE -20°C



EMERG SAFE ALT 100 NM 4000



| CATEGORY | | A | B | C | D |
|----------|-------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| EU-OPS | DA(H) LPV | 278-550 211 (300-0.8/1.2) | 288-550 221 (300-0.8/1.2) | 298-550 231 (300-0.8/1.2) | 308-550 241 (300-0.8/1.3) |
| | DA(H) LNAV / VNAV | 334-600 267 (300-0.8/1.3) | 344-600 277 (300-0.8/1.3) | 354-650 287 (300-0.8/1.4) | 364-650 297 (300-0.8/1.4) |
| | MDA(H) LNAV | 450-1100 383 (400-1.1/1.8) | | | |

| | | | | | | | |
|------|-------|------------|-------------|-------|--------|------------|-------------|
| IAWP | BESTI | 51°38.54'N | 005°25.66'E | MAWP | THR 21 | 51°27.56'N | 005°23.09'E |
| IAWP | GEMTI | 51°32.80'N | 005°38.77'E | MATWP | EH558 | 51°24.48'N | 005°19.65'E |
| IWP | GILIV | 51°35.74'N | 005°32.29'E | HF | EHOJI | 51°28.07'N | 005°23.69'E |
| FAWP | EH567 | 51°32.40'N | 005°28.53'E | | | | |

CHANGES: MSA

RNLAF 09 SEP 2021



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PART 3 – AERODROMES (AD)

AD 2.

**AD 2. AERODROMES
GILZE RIJEN**

GILZE RIJEN

EHGR AD 2.1 Aerodrome location indicator and name

EHGR - Gilze-Rijen

EHGR AD 2.2 Geographical and administrative data

| | | |
|---|---|---|
| 1 | ARP | 51°34'02.56"N 004°55'54.61"E |
| 2 | Direction and distance from city | 280° MAG/6.1 NM TILBURG |
| 3 | Elevation/Reference temperature | + 49 ft AMSL/22.1° C (JUL) |
| 4 | MAG VAR/Annual change | 1°41'E (JAN 2020)/11'E |
| 5 | AD operating authority Postal address Visitors' address Telephone Telefax AFTN | RNLAF DHC Vliegbasis Gilze-Rijen MPC 89A P.O. Box 8762 4820 BB Breda Rijksweg 121 5121 RD Rijen +31(0)161 296523 +31(0)161 296525 EHGRZTZX |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHGR AD 2.3 Operational hours

| | | |
|----|----------------------------|--|
| 1 | AD OPR HR | MON/FRI 0800/1530 (0700/1430) |
| 2 | Customs and immigration | 30 MIN PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | See 2.23 |
| 5 | ATS Reporting Office (ARO) | See 2.23 |
| 6 | MET Briefing Office | HO |
| 7 | ATS | HO |
| 8 | Fuelling | HO |
| 9 | Handling | NIL |
| 10 | Security | HO |
| 11 | De-icing | Nil |
| 12 | Remarks | PPR 24 HRS See 2.23 OPR HR regulary MON/THU until 2200 (2100) |

EHGR AD 2.4 Handling services and facilities

| | | |
|---|--------------------------------|-----------------------|
| 1 | Cargo-handling facilities | Yes |
| 2 | Fuel/oil types | F-34, F-18, H-515 |
| 3 | Fuelling facilities/capacity | No limitations |
| 4 | Oxygen | Nil |
| 5 | De-icing facilities/type | Nil |
| 6 | Starting units | DSA 150, DSA 600, JAS |
| 7 | Hangar space for visiting ACFT | Limited |
| 8 | Repair facilities | AH64, AS32, H47 |
| 9 | Remarks | Nil |

EHGR AD 2.5 Passenger facilities

| | | |
|---|--------------------|----------------------------|
| 1 | Remain overnight | AVBL O/R |
| 2 | Medical facilities | Medical officer, ambulance |
| 3 | Remarks | Nil |

EHGR AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|------------------------|
| 1 | AD category for fire fighting | NATO CAT 7 NATO H-3 |
| 2 | Remarks | Nil |

EHGR AD 2.7 Seasonal availability - clearing

| | | |
|---|------------------------|---|
| 1 | Seasonal availability | All seasons |
| 2 | Snow removal equipment | Yes |
| 3 | Remarks | Caution advised in winter during ice conditions |

EHGR AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|---|
| 1 | Apron surface and strength | Concrete, 298: PCN 47 R/C/W/T 300: PCN 36 R/C/W/T 301: PCN 27 R/C/W/T Ref: PCN 27 R/C/W/T |
| 2 | TWY width, surface and strength | Width 39 ft, tarmac/concrete, PCN 45 R/C/W/T |
| 3 | Remarks | Nil |

EHGR AD 2.9 Surface movement guidance and control system and markings

| | | |
|-----------------------|---------|-----|
| According STANAG 3158 | | |
| 1 | Remarks | Nil |

EHGR AD 2.10 Aerodrome obstacles

Obstacles along RWYs and TWYs are not conform to standard obstacle clearance requirements. Further details in Aerodrome Chart.

EHGR AD 2.11 Meteorological information provided

| | | |
|---|--|---|
| 1 | Associated MET Office | Gilze-Rijen |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHGR 0161-296552 or mail Afdeling.Meteo.GilzeRijen@mindef.nl Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHGR AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|--|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | PCN: RWY 10: 55 F/A/W/T RWY 28: 55 F/A/W/T RWY 02: 55 F/A/W/T RWY 20: 55 F/A/W/T |

EHGR AD 2.13 Declared distances

| |
|------------------------------------|
| See Aerodrome Chart. Values in ft. |
|------------------------------------|

EHGR AD 2.14 Approach and runway lighting

| | | |
|-----------------------|-------------------|---|
| According STANAG 3316 | | |
| 1 | Approach lighting | RWY 28: CAT I. 780 m RWY 10: SALS. 420 m RWY 20: Nil RWY 02: Nil |
| 2 | RWY lighting | RWY 10/28 VCL/ VHI, RWY 02/20 VHI |
| 3 | PAPI | Situated on the left side of RWY 10/28 |
| 4 | Remarks | Nil |

EHGR AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|-----------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | VB |
| 3 | Emergency RWY lighting | Nil |
| 4 | Emergency TWY edge lighting | Retroreflective markers |
| 5 | Secondary power supply/switch-over | AVBL, switch over time 15 seconds |
| 6 | Remarks | Nil |

EHGR AD 2.16 Helicopter landing area

| | | |
|---|----------|---|
| 1 | Location | Centre of the north-west corner RWY 10/28 and 02/20 |
| 2 | Marking | Daylight marking |
| 3 | Lighting | Yes, non NATO standard |
| 4 | Remarks | Nil |

EHGR AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|--|
| 1 | Designation and lateral limits | Gilze-Rijen control zone 51°29'58.19"N 004°47'48.26"E; along clockwise arc (radius 6.5 NM, centre 51°34'02.56"N 004°55'54.61"E) to 51°28'56.13"N 005°02'20.09"E; along Dutch-Belgian border to 51°28'14.92"N 005°00'36.24"E; along clockwise arc (radius 6.5 NM, centre 51°34'02.56"N 004°55'54.61"E) to 51°28'32.16"N 004°50'23.92"E; along Dutch-Belgian border to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Gilze-Rijen TWR. English |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHGR AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|--|-------|---------------------------------|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Gilze-Rijen Tower | 125.330 ^{*)} 122.100 277.350 ^{*)} 257.800 | HO | ^{*)} Primary FREQ |
| GND CTL | Gilze-Rijen Ground | 123.300 278.125 | HO | |
| APP | Rapcon West | 123.580 281.475 | HO | Radar equipped |
| | Gilze Arrival | 123.580 359.975 | HO | Through APP |
| | Gilze Monitor | 128.990 | HO | Nieuw Milligen TMA D1 |

EHGR AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|------------------|-----|------------------|-------|---------------------------------|--------------------|---------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| TACAN | GZR | CH 111X | H24 | 51°33'57.73"N 004°56'00.68"E | 40 NM/ 25000 ft | FREQ protected |
| ILS LOCALIZER | GZO | 111.900 | H24 | 51°34'11.49"N 004°54'34.82"E | | ILS-antenna 55 ft AMSL |
| GLIDEPATH | | 331.100 | | 51°33'54.24"N 004°56'42.50"E | | |
| DME | | CH 56X | H24 | 51°33'54.24"N 004°56'42.50"E | | |

EHGR AD 2.20 Local traffic regulations

Glider- and Light ACFT flying

Glider- and light ACFT flying outside OPR HR SR/SS.

EHGR AD 2.21 Noise abatement procedures

Noise abatement procedures in the CTR. Except for tactical entries during rejoining and landing-procedures flying with a speed of 300 KTS or more is forbidden. Unless safety- or operational reasons dictate otherwise the use of afterburner is prohibited. No practice-approaches are to be made after 2100 (2000) HRS. VFR and IFR departure/approach procedures are projected in such a way that noise hindrance is minimized as much as possible.

EHGR AD 2.22 Flight procedures

IFR procedures

The IAP and SID procedures are established in accordance with STANAG 3759 and AATCP-1.

VFR procedures

APPROACH PROCEDURES FOR JET ACFT (for RWY 10/28 only):

Approach at 2000 ft AMSL from the NE intercepting inbound R-045 GZR TACAN. Report at 6.5 DME (reporting point 'the Kets'). Maintain 2000 ft AMSL and proceed to overhead GZR TACAN. For RWY 28 turn left to IP, followed by a L/H circuit at 1500 ft AMSL. For RWY 10 turn right to IP, followed by a R/H circuit at 1500 ft AMSL.

DEPARTURE PROCEDURES FOR JET ACFT:

RWY 28: Maintain RWY heading until reaching 500 ft AMSL. Do not exceed 1000 ft AMSL over the RWY. Turn left to 240° magnetic climbing to 1500 ft AMSL; maintain heading until abeam Ulvenhout.

RWY 10: Maintain RWY heading until reaching 500 ft AMSL. Do not exceed 1000 ft AMSL over the RWY. Turn right to 145° magnetic climbing to 1500 ft AMSL; maintain heading until abeam Goirle.

LIGHT ACFT AND CONVENTIONAL ACFT

Approach and depart the CTR at least at 500 ft AMSL. Circuit instructions will be provided by ATC.

HELICOPTERS

For noise abatement and separation of inbound and outbound helicopters, six corridors have been established. The corridors are established along multiple ground reference points, one of which is an IP(Initial point). The dimensions of the corridors are: Width: 500 metres to either side of the line between the reference points. All traffic shall proceed on the right-hand side of the (imaginary line between the) reference points, to achieve a safe flow of inbound and outbound traffic altitude: 1000 ft AMSL. Altitude deviations shall be requested. When departing from or arriving at the airfield via one of the corridors, the overflying of built-up areas has to be avoided at all times.

An IP is a reference point and should NOT be overflown directly. An R/T call 'passing IP' is mandatory when abeam the IP. IP altitude for all helicopters is 1000 ft AMSL.

| | | | |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Corridor W2 (West 2) | | | |
| Reference point | IP NW (North-West) | W1 | W2 |
| 51°35'07.00"N 004°53'35.00"E | 51°36'22.00"N 004°52'16.00"E | 51°37'11.00"N 004°49'50.00"E | 51°37'44.00"N 004°46'04.00"E |
| | The most northern tip of a pond | Road intersection | Canal perpendicular to the road |

| | | |
|---------------------------------|---------------------------------|---------------------------------|
| Corridor N1 (North 1) | | |
| Reference point | IP NW (North-West) | N1 |
| 51°35'07.00"N 004°53'35.00"E | 51°36'22.00"N 004°52'16.00"E | 51°40'21.73"N 004°55'29.96"E |
| | The most northern tip of a pond | Water intersection |

| | | |
|---------------------------------|---|---------------------------------|
| Corridor N2 (North 2) | | |
| Reference point | IP NE (North-East) | N2 |
| 51°34'45.00"N 004°57'33.00"E | 51°36'16.00"N 004°58'12.00"E | 51°40'22.09"N 004°59'58.94"E |
| | The north-easterly corner of the tree line just south of the Wilhelminakanaal | Demolition company |

| | | |
|---------------------------------|---|---|
| Corridor E (East) | | |
| Reference point | IP NE (North-East) | E |
| 51°34'45.00"N 004°57'33.00"E | 51°36'16.00"N 004°58'12.00"E | 51°38'05.03"N 005°03'38.12"E |
| | The north-easterly corner of the tree line just south of the Wilhelminakanaal | T-junction parallel road next to the N261 |

| | | |
|---------------------------------|---|---------------------------------|
| Corridor SE (South-East) | | |
| Reference point 1 | IP SE (South-East) | Reference point 2 |
| 51°33'20.00"N 004°57'53.00"E | 51°31'09.00"N 005°00'42.00"E | 51°29'51.00"N 005°03'11.00"E |
| | Bend in the road 500 meters southwest of Riel | |

| | |
|---------------------------------|--|
| Corridor SW (South-West) | |
| Reference point | IP SW (South-West) |
| 51°33'28.00"N 004°53'39.00"E | 51°31'54.00"N 004°49'33.00"E |
| | Bend in the road 2 km southeast of Ulvenhout |

EHGR AD 2.23 Additional information

AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.

Tel: +31(0)20 4062840

Tel: +31 (0)20 4062841

E-mail: aocs.fdn@mindef.nl

AFTN: EHMCZPZX

avlbl H24

PPR 24 HRS:for Prior Permission Request contact:

Operational and Co-ordination Centre

Tel: +31(0)161 296770

Fax: +31(0)161 296785

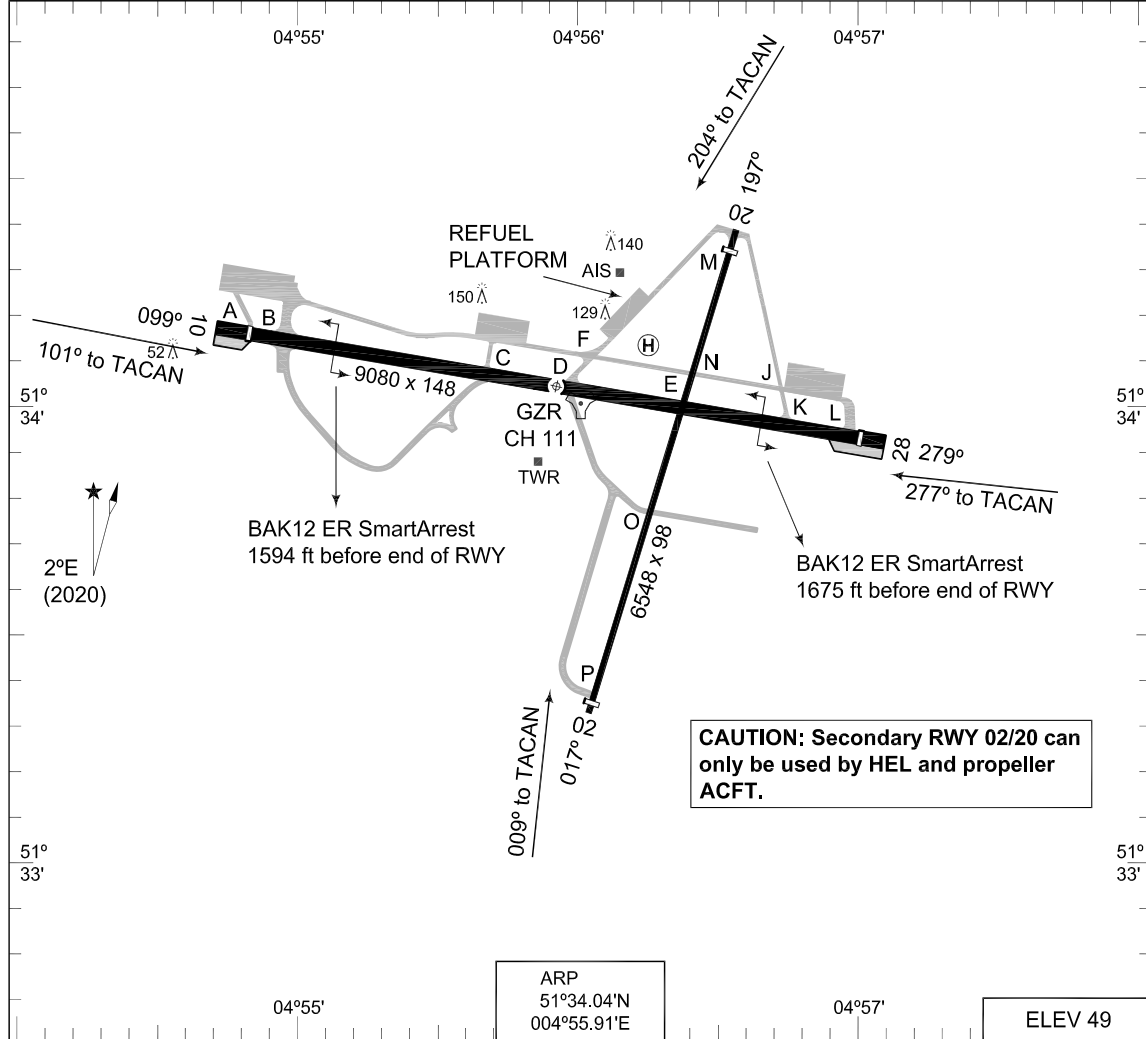
E-mail: dhc.sopp.occ@mindef.nl

EHGR AD 2.24 Charts related to an aerodrome

| | | |
|--|---|--------------|
| | Aerodrome Chart | EHGR AD 2-10 |
| | Local map | EHGR AD 2-11 |
| | MVA chart | EHGR AD 2-12 |
| | Instrument departure chart GR1 | EHGR AD 2-13 |
| | Instrument departure chart GR3 | EHGR AD 2-14 |
| | Instrument approach chart COPTER TACAN 008 | EHGR AD 2-15 |
| | Instrument approach chart HI-TACAN RWY 10 | EHGR AD 2-16 |
| | Instrument approach chart TACAN RWY 10 | EHGR AD 2-17 |
| | Instrument approach chart COPTER TACAN 101 | EHGR AD 2-18 |
| | Instrument approach chart COPTER TACAN 204 | EHGR AD 2-19 |
| | Instrument approach chart ILS OR LOC RWY 28 | EHGR AD 2-20 |
| | Instrument approach chart HI-TACAN RWY 28 | EHGR AD 2-21 |
| | Instrument approach chart TACAN RWY 28 | EHGR AD 2-22 |
| | Instrument approach chart COPTER TACAN 277 | EHGR AD 2-23 |

**MIPS
AERODROME CHART**

GILZE-RIJEN (EHGR)

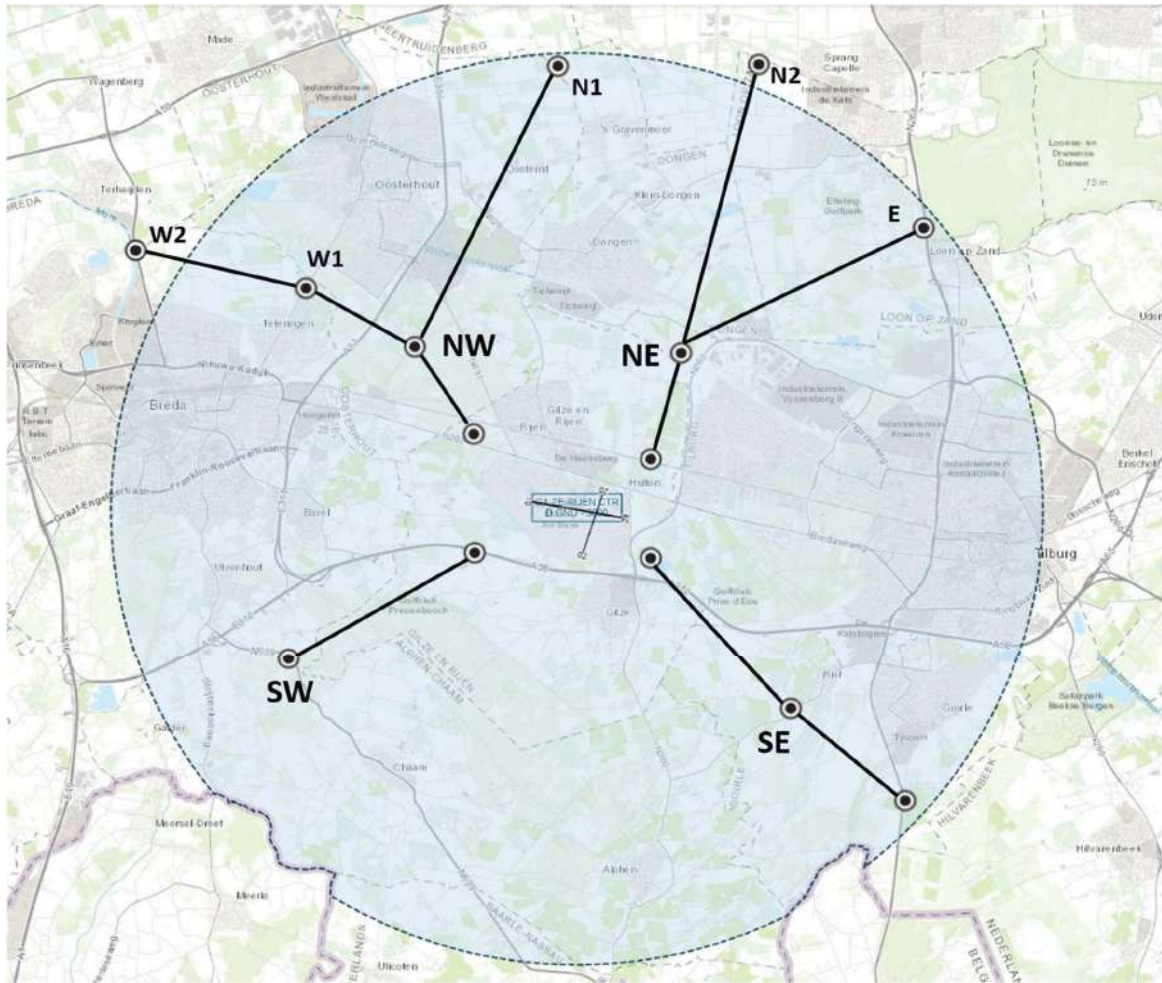


| RWY | PCN | TORA | ASDA | TODA | LDA | PAPI | THR ELEV | THR PSN |
|-----|------------|------|------|------|------|------|----------|------------------------|
| 28 | 55 F/W/A/T | 9080 | 9080 | 9080 | 8806 | 3.0° | 35 | 51°33.92'N 004°57.00'E |
| 10 | 55 F/W/A/T | 9080 | 9080 | 9080 | 8672 | 3.0° | 41 | 51°34.16'N 004°54.82'E |
| 20 | 55 F/W/A/T | 6548 | 6548 | 6548 | 6181 | | 36 | 51°34.31'N 004°56.51'E |
| 02 | 55 F/W/A/T | 6548 | 6548 | 6548 | 6249 | | 48 | 51°33.39'N 004°56.03'E |

| | | | | | |
|---------------------|---------|---------|------------------|---------|---------|
| GILZE-RIJEN TWR | 277.350 | 125.330 | (Ground Control) | 278.125 | 123.300 |
| GILZE-RIJEN ARRIVAL | 359.975 | | | | |
| RAPCON WEST | 399.725 | 123.580 | | | |

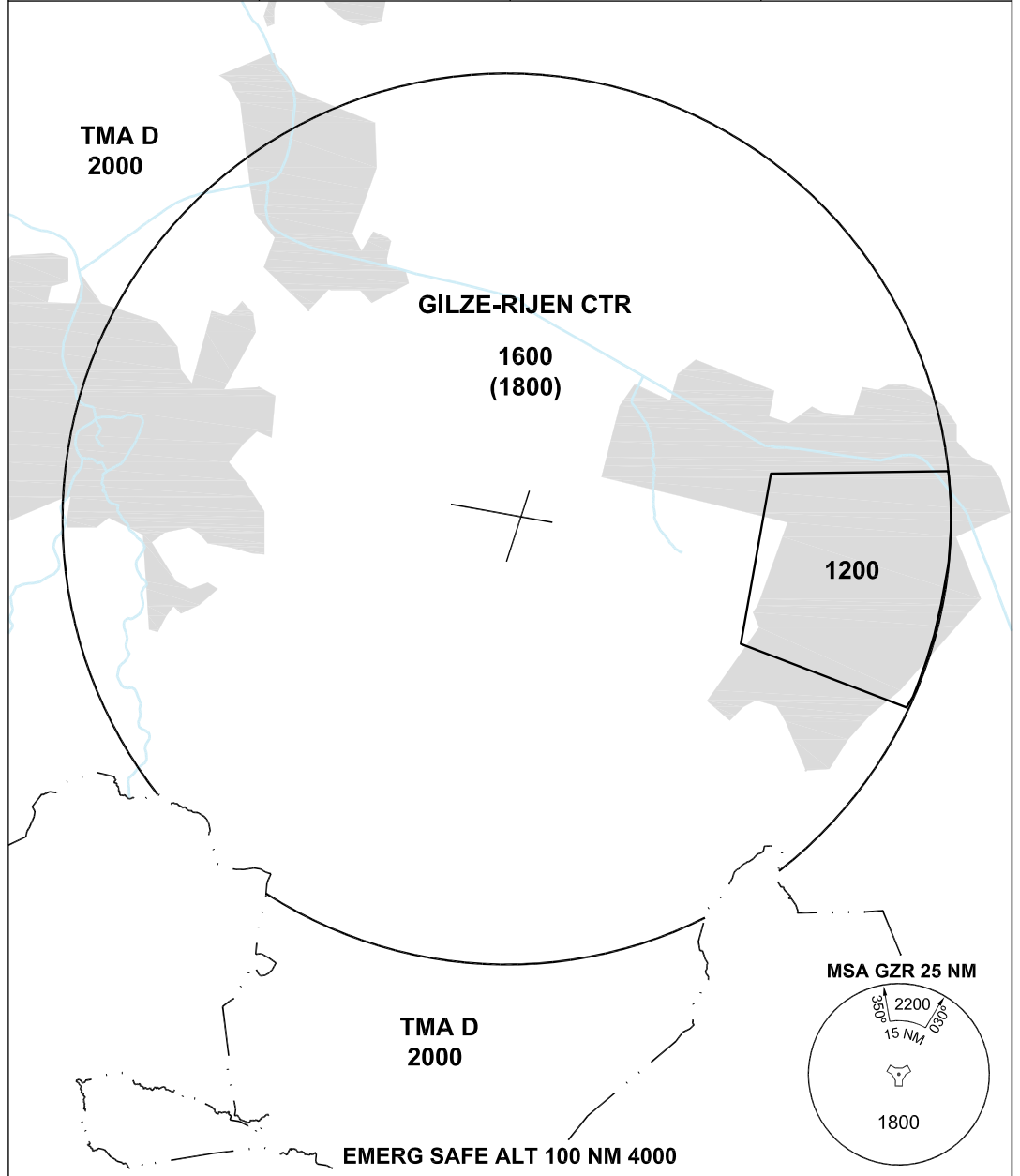
| | PROC. CRITERIA | RWY | GS | TCH | OTCH | RPI | CAT | MINIMA CRITERIA | MINIMA |
|------------------------------|----------------|-----|----|-----|------|-----|-----|-----------------|--------|
| CHANGES: GROUND CONTROL FREQ | | | | | | | | | |

LOCAL MAP



MIPS MINIMUM VECTORING ALTITUDE **MVA CHART GILZE-RIJEN (EHGR)**

| | | | |
|------------------------------|--------------------------------|--|----------------------------|
| DUTCH MIL 336.325 125.930 | RAPCON WEST 399.725 123.580 | AD ELEV 49 GILZE-RIJEN TWR 277.350 125.330 | GND CTL 278.125 123.300 |
|------------------------------|--------------------------------|--|----------------------------|



CHANGES: GND CTL FREQ

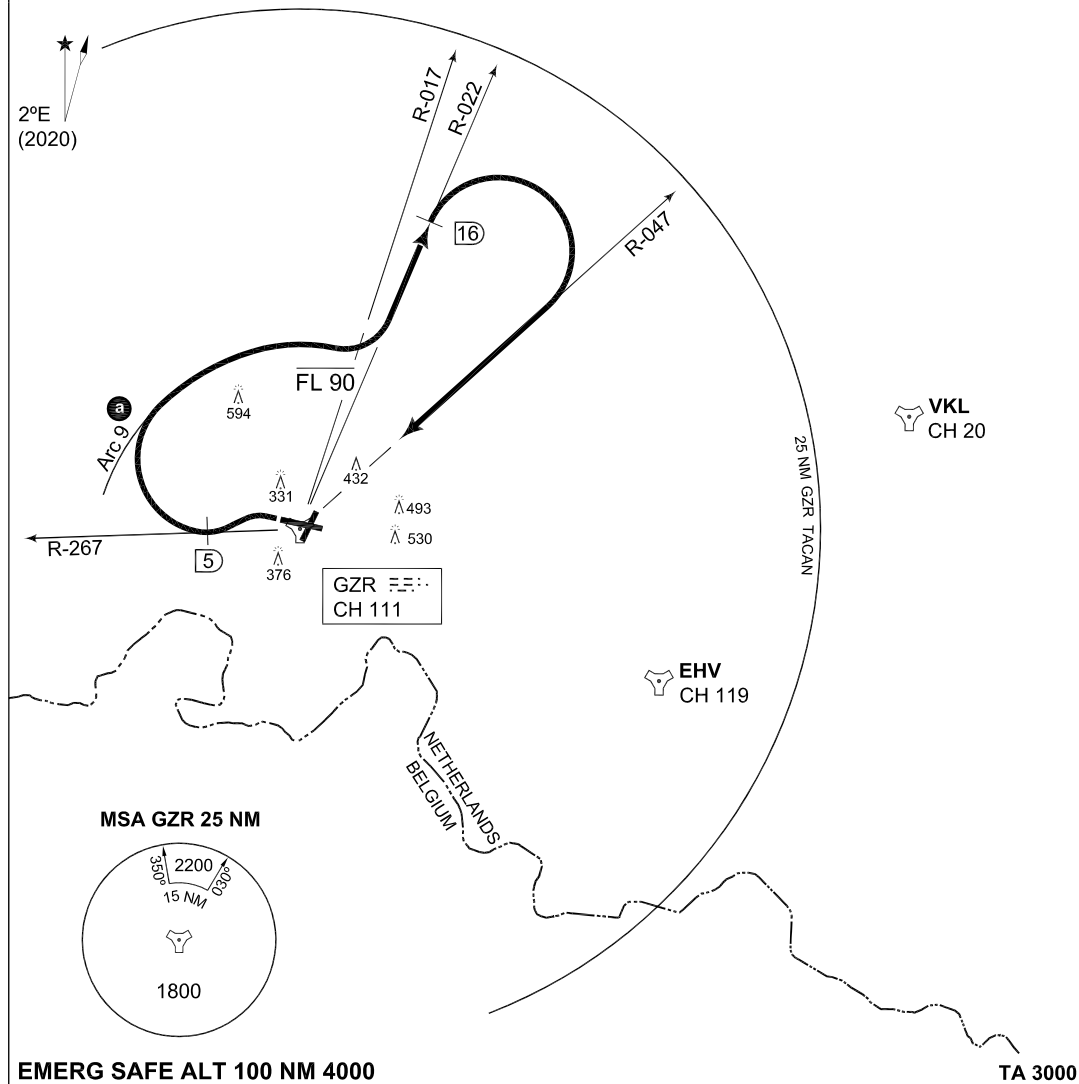
- THE ALTITUDE BETWEEN BRACKETS IS TO BE USED FOR THE CORRESPONDING SECTOR WHEN AIR TEMPERATURE AT AIRBASE ALTITUDE IS LOWER THAN -16°.
- ALTITUDES ONLY AVAILABLE IF THE RADAR COVERAGE PERMITS.

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TERPS INSTRUMENT DEPARTURE CHART **GR1 GILZE-RIJEN (EHGR)**

| | | | | | | | | | |
|----------------------------|------------------------------------|------------------|--------------------|--------------------------------|------------|------------|-------------|------------------------------|--------------|
| GND CTL 278.125 123.300 | GILZE-RIJEN TWR 277.350 125.330 | AD ELEV 49 | | RAPCON WEST 399.725 123.580 | | | | DUTCH MIL 336.325 125.930 | |
| | | RWY 28 | Knots V/V (fpm) | 120 480 | 180 720 | 240 960 | 300 1200 | 360 1440 | to 150 ft |

NOTE:
a DO NOT EXCEED 10 DME



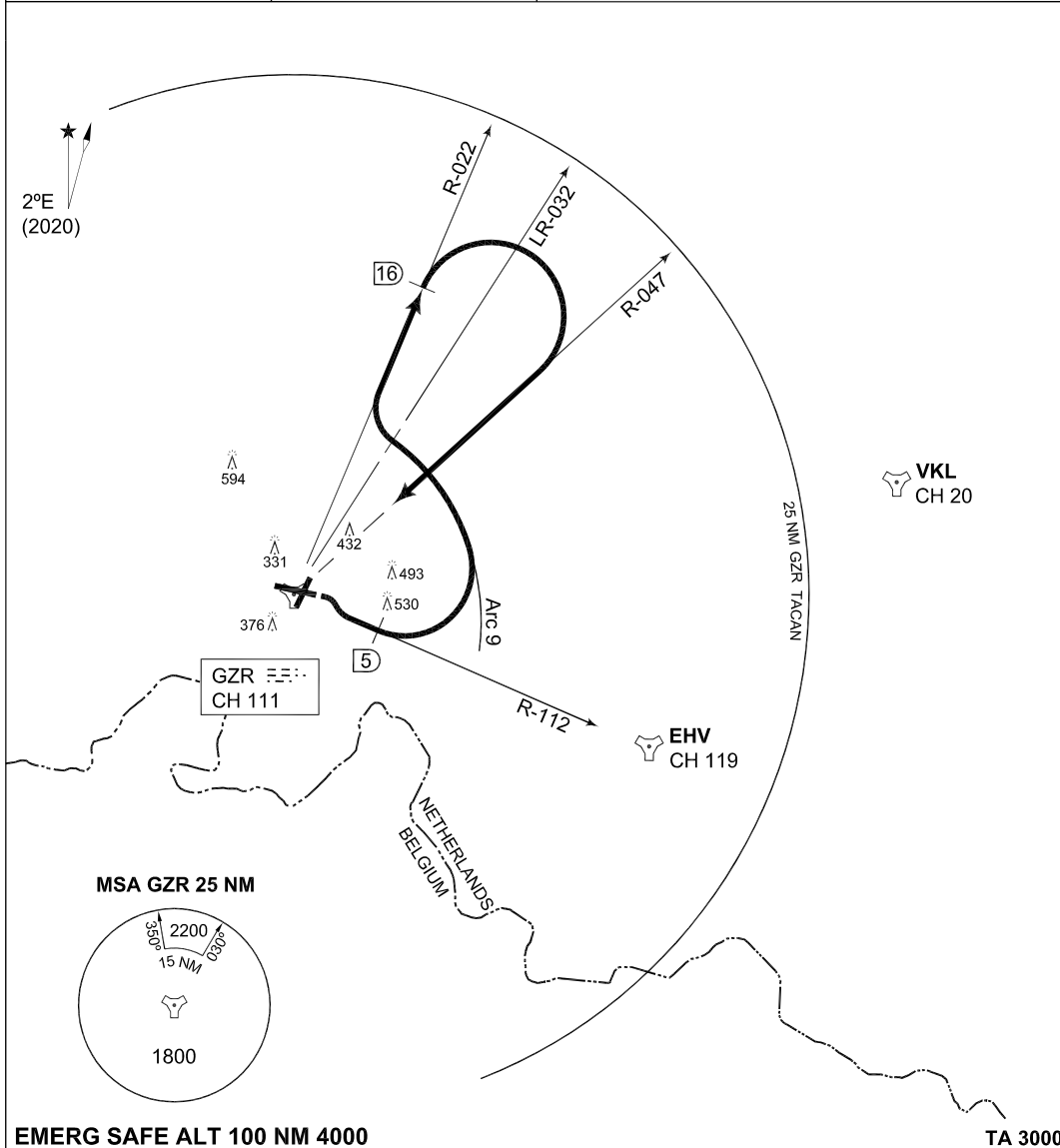
CHANGE: GND CTL FREQ

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TERPS INSTRUMENT DEPARTURE CHART **GR3 GILZE-RIJEN (EHGR)**

| | | | |
|----------------------------|------------------------------------|--------------------------------|------------------------------|
| GND CTL 278.125 123.300 | GILZE-RIJEN TWR 277.350 125.330 | RAPCON WEST 399.725 123.580 | DUTCH MIL 336.325 125.930 |
|----------------------------|------------------------------------|--------------------------------|------------------------------|

AD ELEV 49



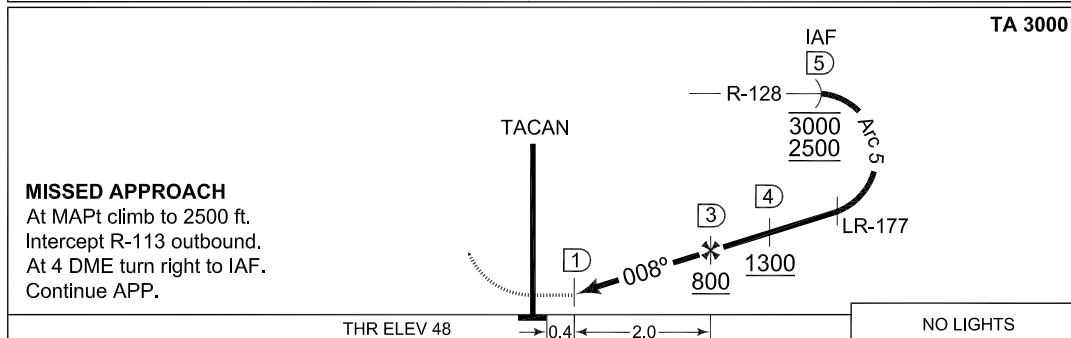
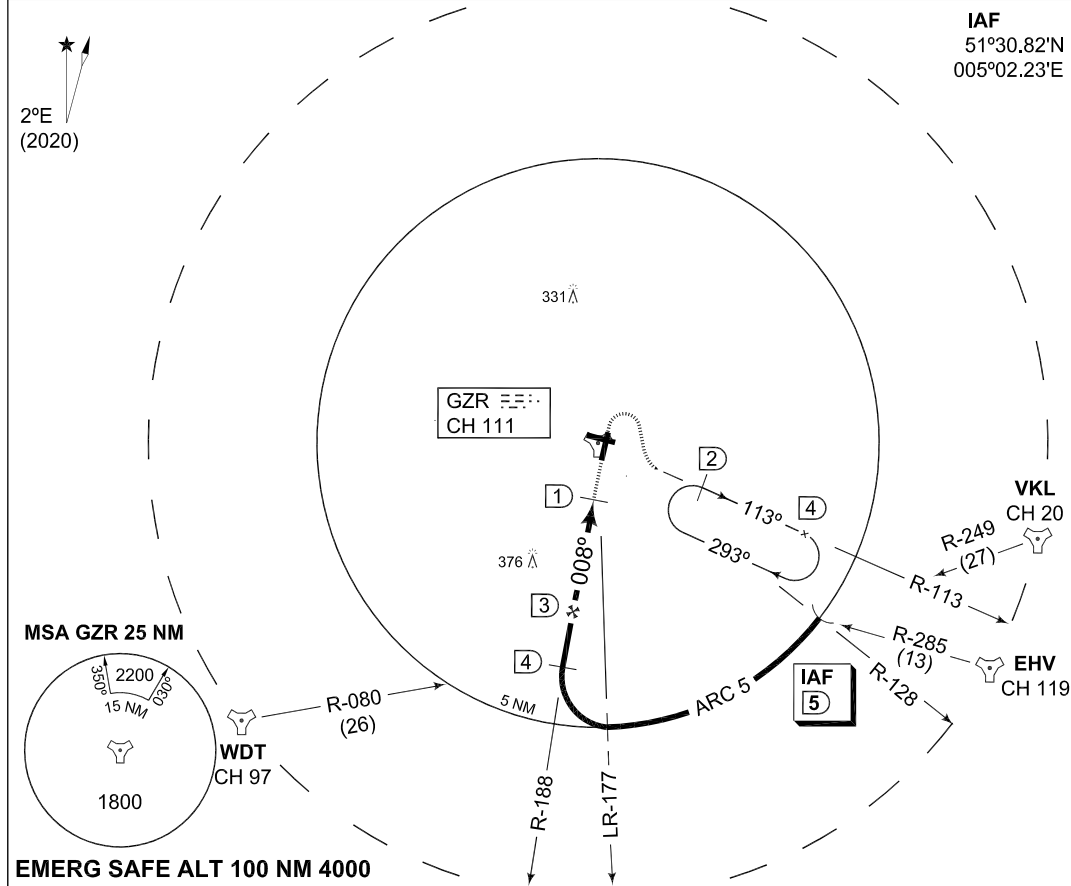
EMERG SAFE ALT 100 NM 4000 **TA 3000**

| | |
|---|---|
| <p style="writing-mode: vertical-rl; transform: rotate(180deg);">CHANGES: GND CTL FREQ</p> <p>GILZE-RIJEN 3 (RWY 10)</p> | <ul style="list-style-type: none"> - At 1 DME turn right to intercept R-112 outbound. - At 5 DME turn left to intercept Arc 9. - When crossing R-032 turn right to intercept R-022 outbound. - At 16 DME turn right to intercept R-047 inbound. |
|---|---|

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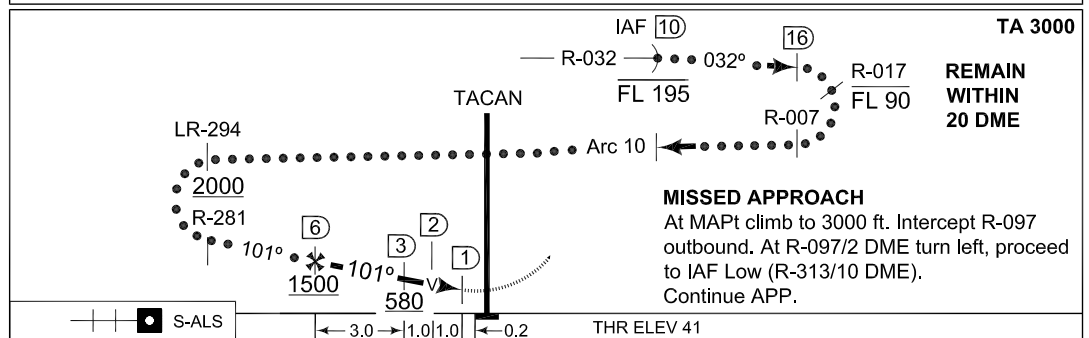
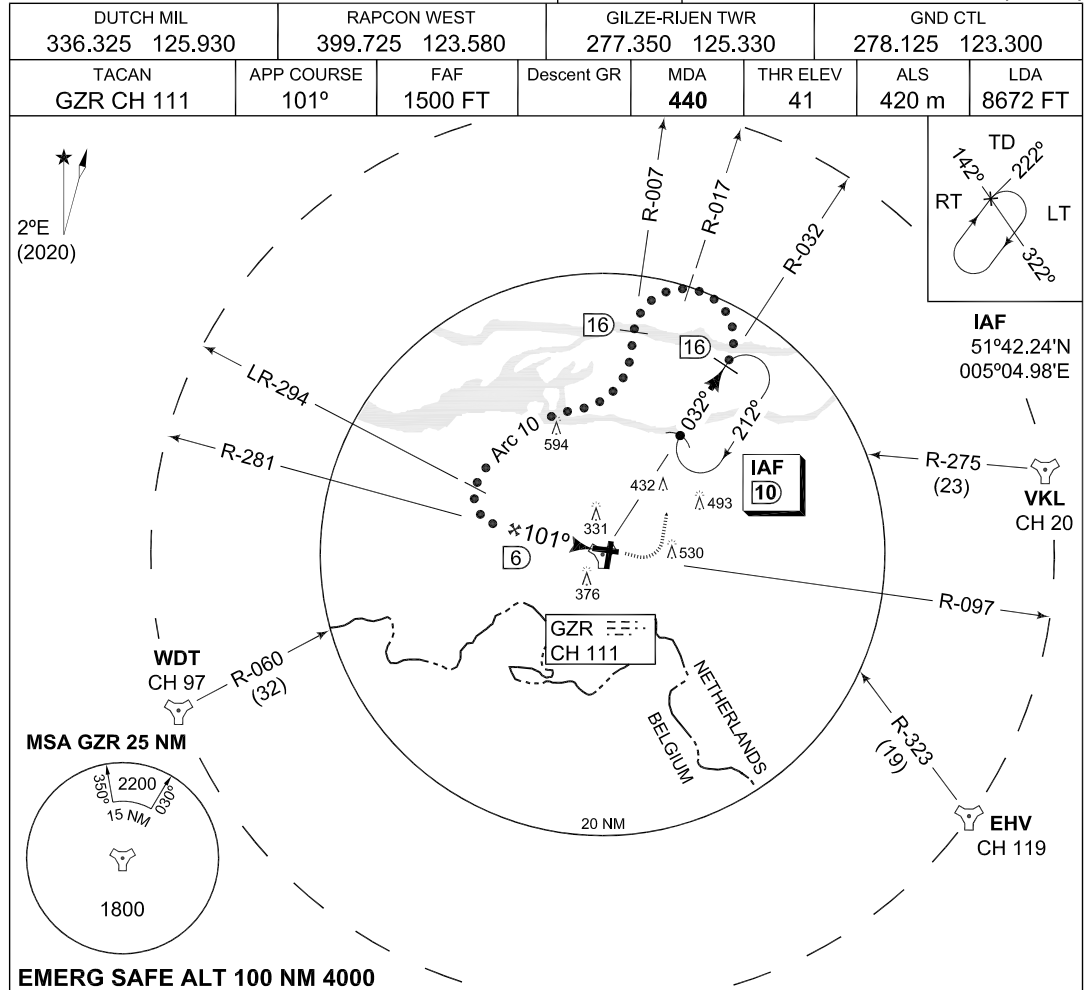
MIPS INSTRUMENT APPROACH CHART **COPTER TACAN 008 GILZE-RIJEN (EHGR)**

| | | | | | | | |
|------------------------------|--------------------|--------------------------------|------------|------------------------------------|----------------|----------------------------|----------------|
| DUTCH MIL 336.325 125.930 | | RAPCON WEST 399.725 123.580 | | GILZE-RIJEN TWR 277.350 125.330 | | GND CTL 278.125 123.300 | |
| TACAN GZR CH 111 | APP COURSE 008° | FAF ALT 800 FT | Descent GR | MDA 460 | THR ELEV 48 | ALS - | LDA 6249 FT |



| | | |
|-----------------------|-------------|------------------------|
| CHANGES: GND CTL FREQ | CATEGORY | COPTER |
| | S-TACAN 008 | 460-800 412 (500-0.8) |
| | CIRCLING | 540-1900 491 (500-1.9) |

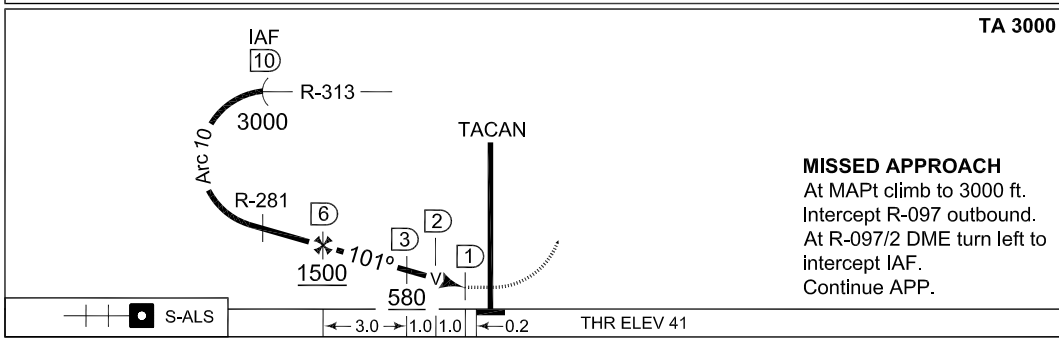
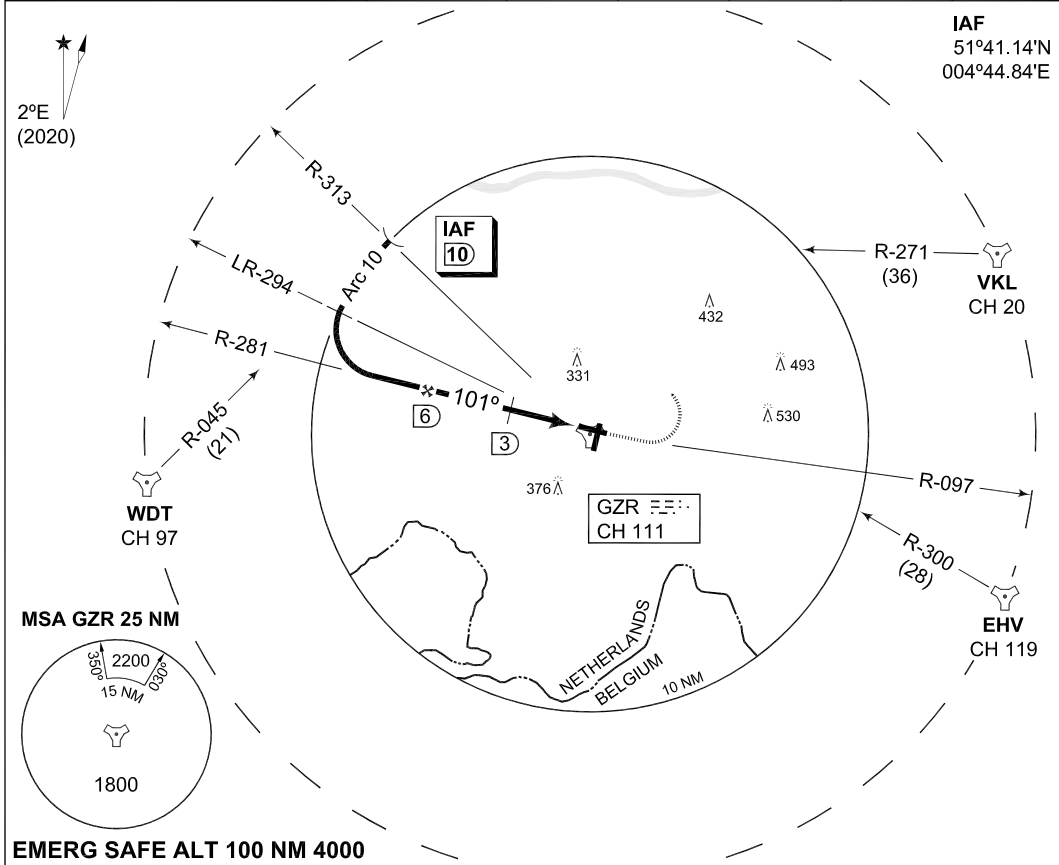
MIPS INSTRUMENT APPROACH CHART **HI-TACAN RWY 10 GILZE-RIJEN (EHGR)**



| | | | | | |
|------|------------|--|------------------------|--------------------------|---|
| MIPS | CATEGORY | C | | D | E |
| | | MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | |
| | S-TACAN 10 | 440-1.6 399 (400-1.6) | | 440-2.0 399 (400-2.0) | |
| | CIRCLING | 770-3700 721 (800-3.7) | 910-4600 861 (900-4.6) | 1000-6500 951 (1000-6.5) | |

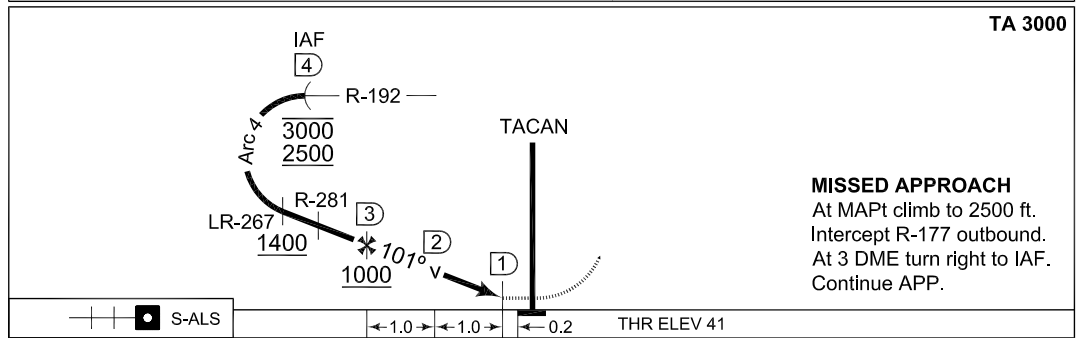
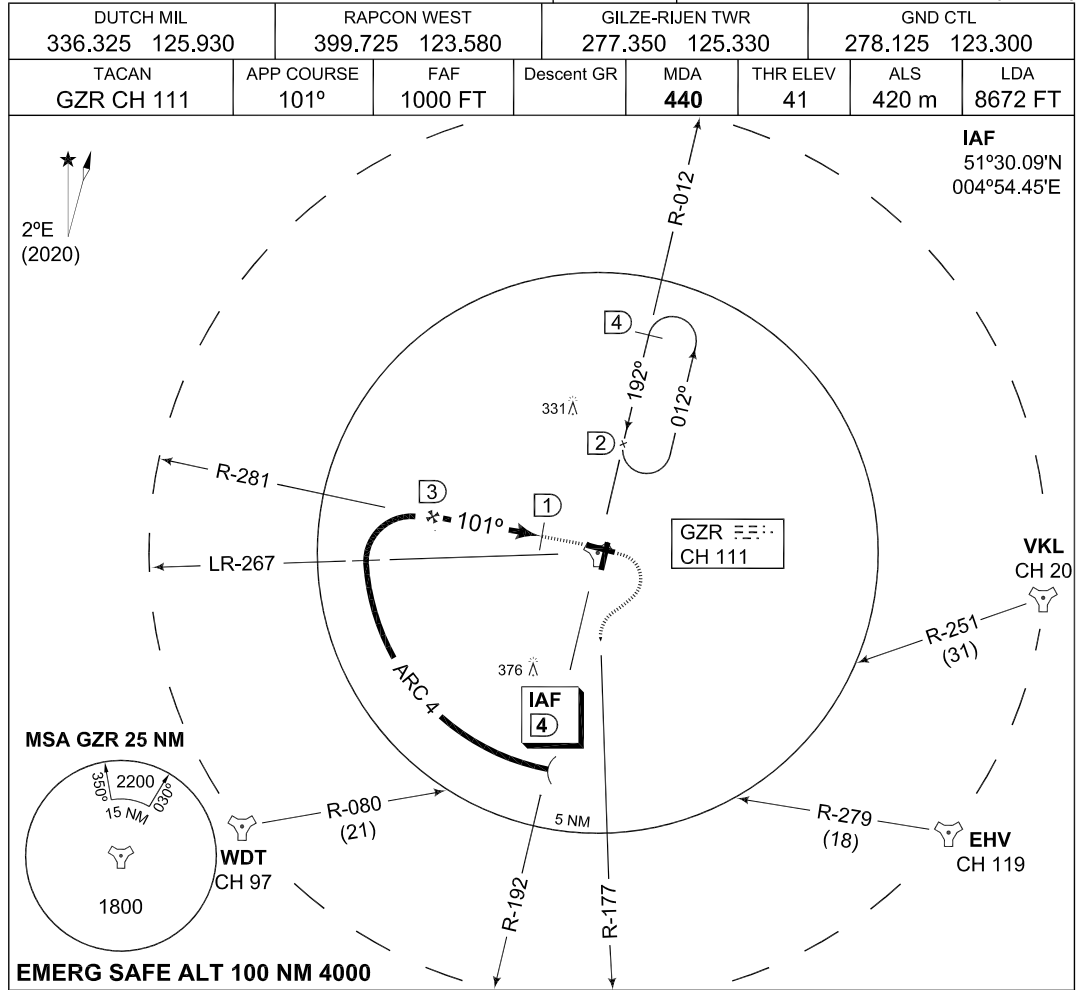
MIPS INSTRUMENT APPROACH CHART **TACAN RWY 10 GILZE-RIJEN (EHGR)**

| | | | | | | | |
|------------------------------|--------------------|--------------------------------|------------|------------------------------------|----------------|----------------------------|----------------|
| DUTCH MIL 336.325 125.930 | | RAPCON WEST 399.725 123.580 | | GILZE-RIJEN TWR 277.350 125.330 | | GND CTL 278.125 123.300 | |
| TACAN GZR CH 111 | APP COURSE 101° | FAF ALT 1500 FT | Descent GR | MDA 440 | THR ELEV 41 | ALS 420 m | LDA 8672 FT |



| | | | | | | |
|----------|--|--------------------------------|--------------------------------|--------------------------------|----------------------------------|-------------------------------|
| MIPS | CATEGORY | A | B | C | D | E |
| | MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | | |
| | S-TACAN 10 | 440 -1.6 399 (400-1.6) | | | | 440 -2.0 399 (400-2.0) |
| CIRCLING | 540 -1900 491 (500-1.9) | 670 -2800 621 (700-2.8) | 770 -3700 721 (800-3.7) | 910 -4600 861 (900-4.6) | 1000 -6500 951 (1000-6.5) | |

MIPS INSTRUMENT APPROACH CHART **COPTER TACAN 101 GILZE-RIJEN (EHGR)**



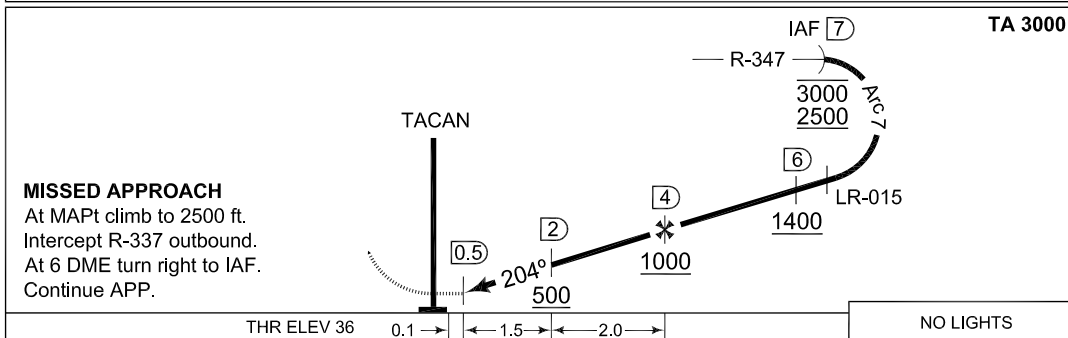
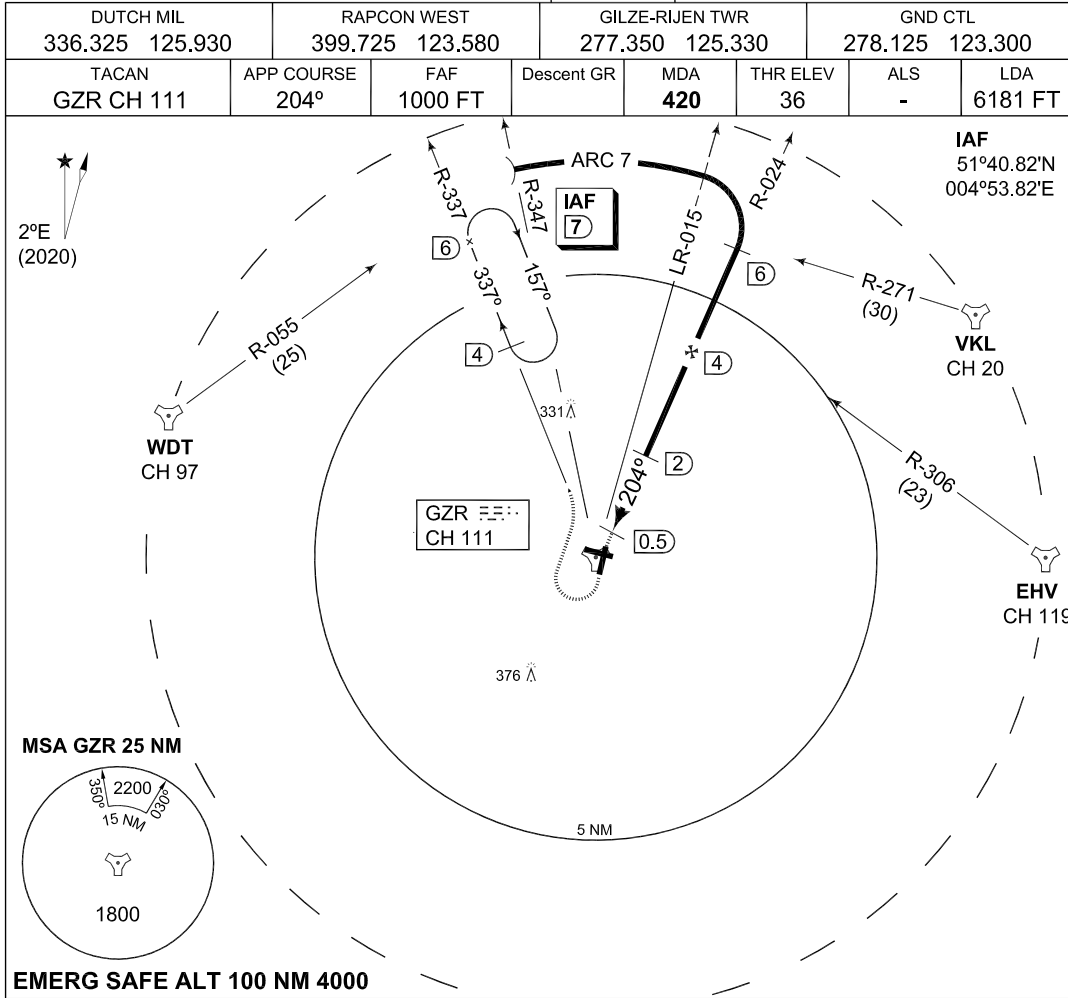
| | | | |
|-----------------------|-------------|-------------------------|--------------------|
| CHANGES: GND CTL FREQ | S-ALS | ← 1.0 → ← 1.0 → ← 0.2 → | THR ELEV 41 |
| | MIPS | CATEGORY | COPTER |
| | S-TACAN 101 | 440 | 400 399 (400-0.4) |
| | CIRCLING | 540 | 1900 491 (500-1.9) |

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MIPS INSTRUMENT APPROACH CHART

AD ELEV 49

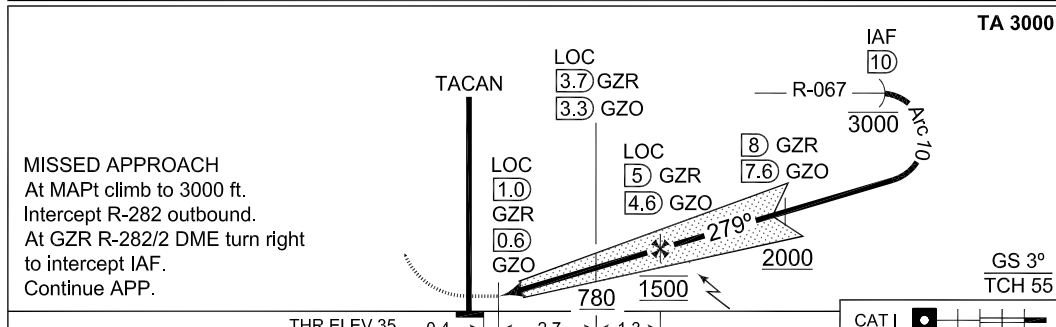
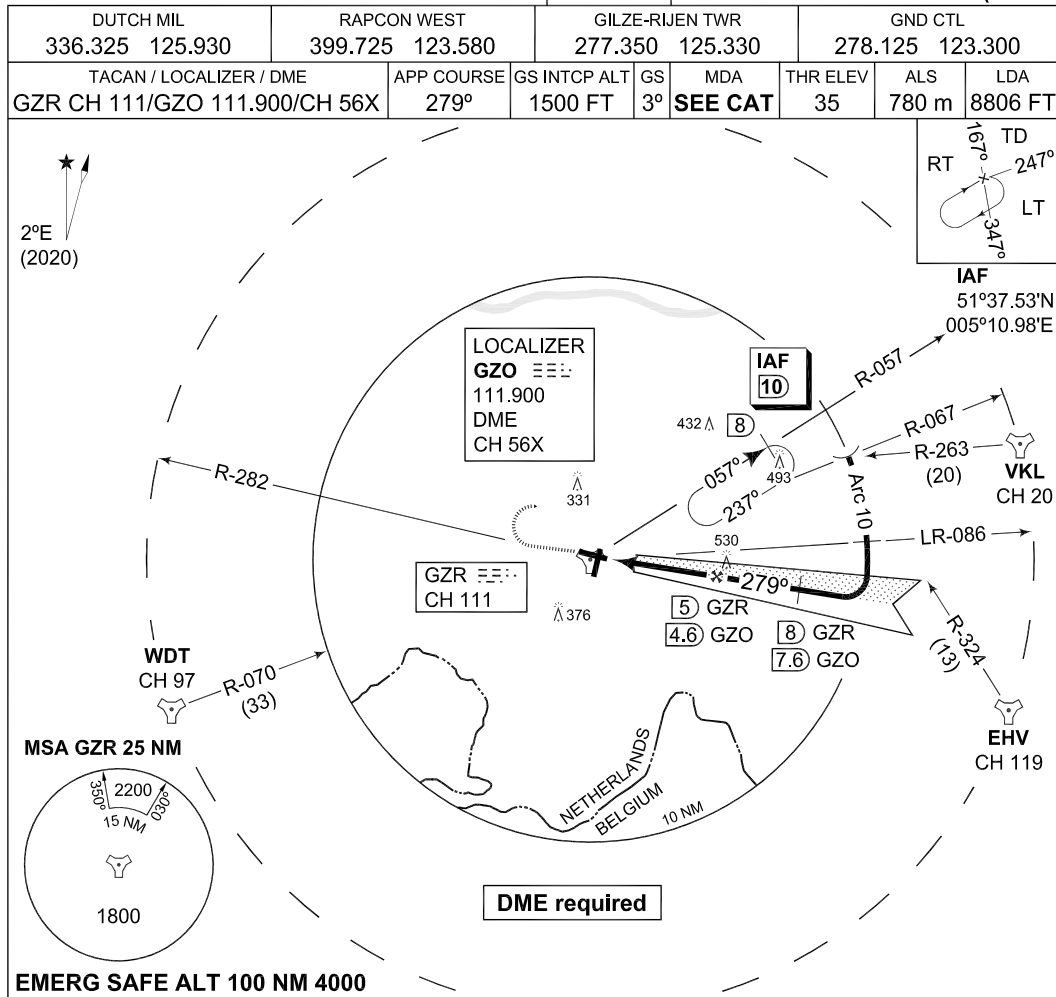
COPTER TACAN 204 GILZE-RIJEN (EHGR)



| | | | |
|-----------------------|-------------|-------------|--------------------------------|
| CHANGES: GND CTL FREQ | MIPS | CATEGORY | COPTER |
| | | S-TACAN 204 | 420 -800 384 (400-0.8) |
| | | CIRCLING | 540 -1900 491 (500-1.9) |

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MIPS INSTRUMENT APPROACH CHART **ILS or LOC RWY 28 GILZE-RIJEN (EHGR)**



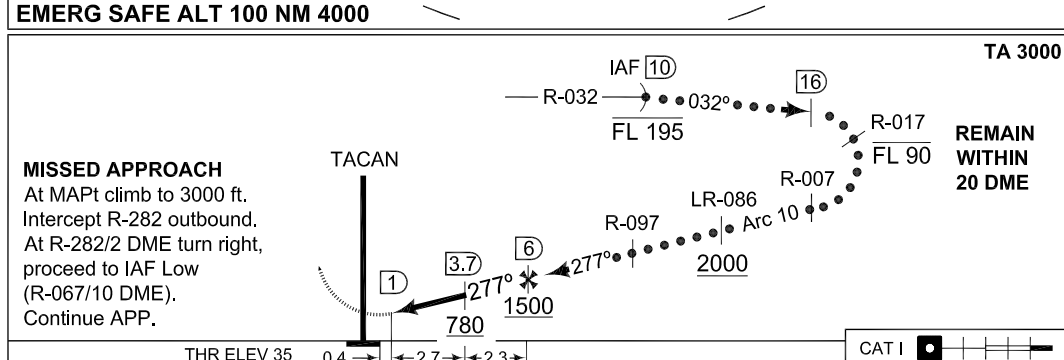
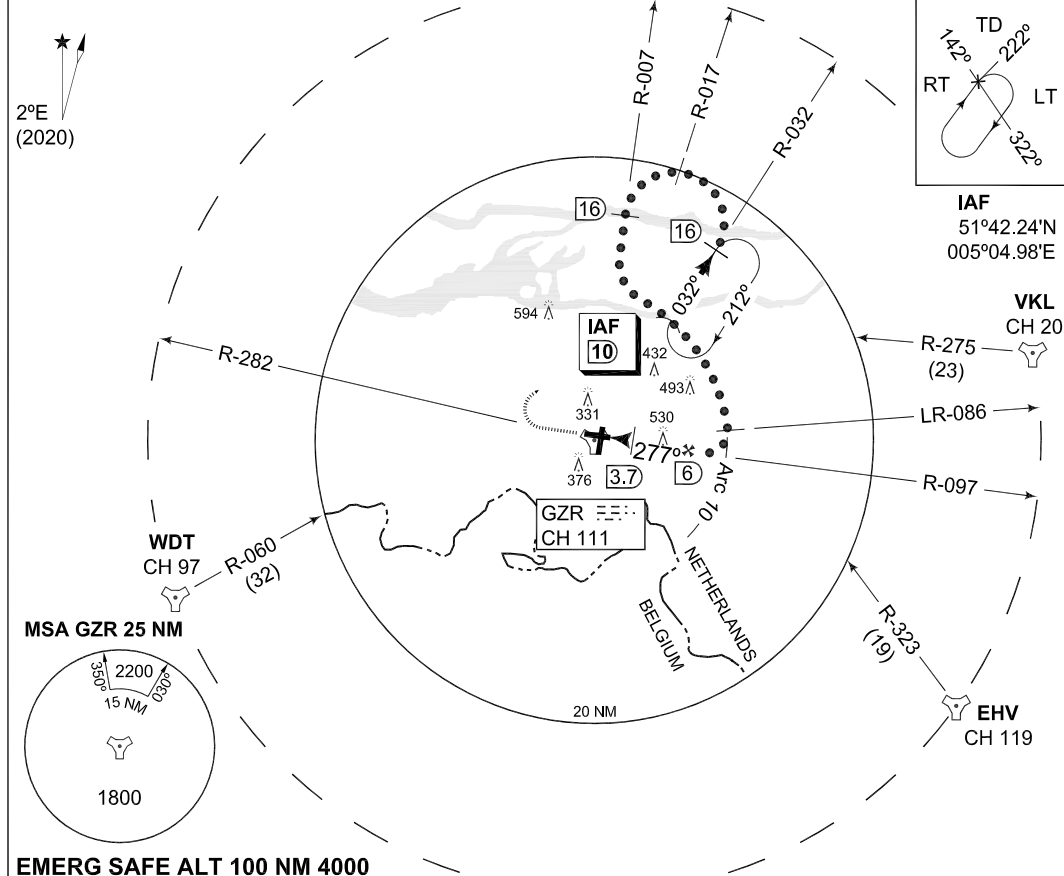
| CATEGORY | COPTER | ILS MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | |
|----------|----------------------------------|--|-----------------------------------|-----------------------------------|---|
| | | A | B | C | D |
| S-ILS 28 | 235 -400 200 (200-0.4) | 235 -800 200 (200-0.8) | | 245 -800 210 (300-0.8) | |
| S-LOC 28 | 380 -400 345 (400-0.4) | 380 -1200 345 (400-1.2) | | | |
| CIRCLING | 540 -1900 491 (500-1.9) | 670 -2800 621 (700-2.8) | 770 -3700 721 (800-3.7) | 910 -4600 861 (900-4.6) | |

CHANGES: GND CTL FREQ

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MIPS INSTRUMENT APPROACH CHART **HI-TACAN RWY 28 GILZE-RIJEN (EHGR)**

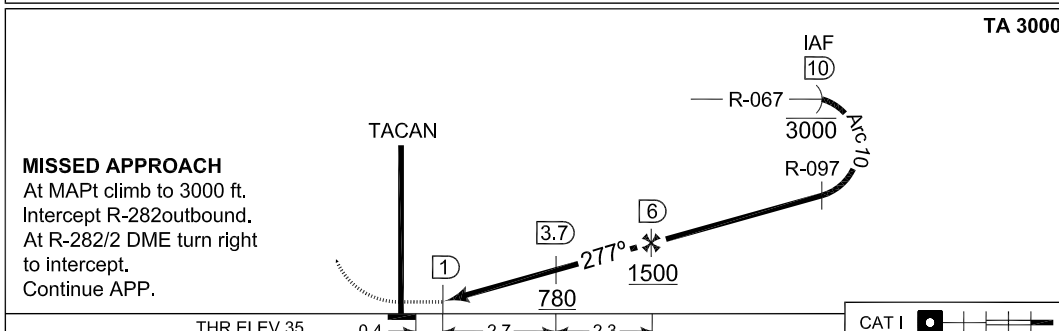
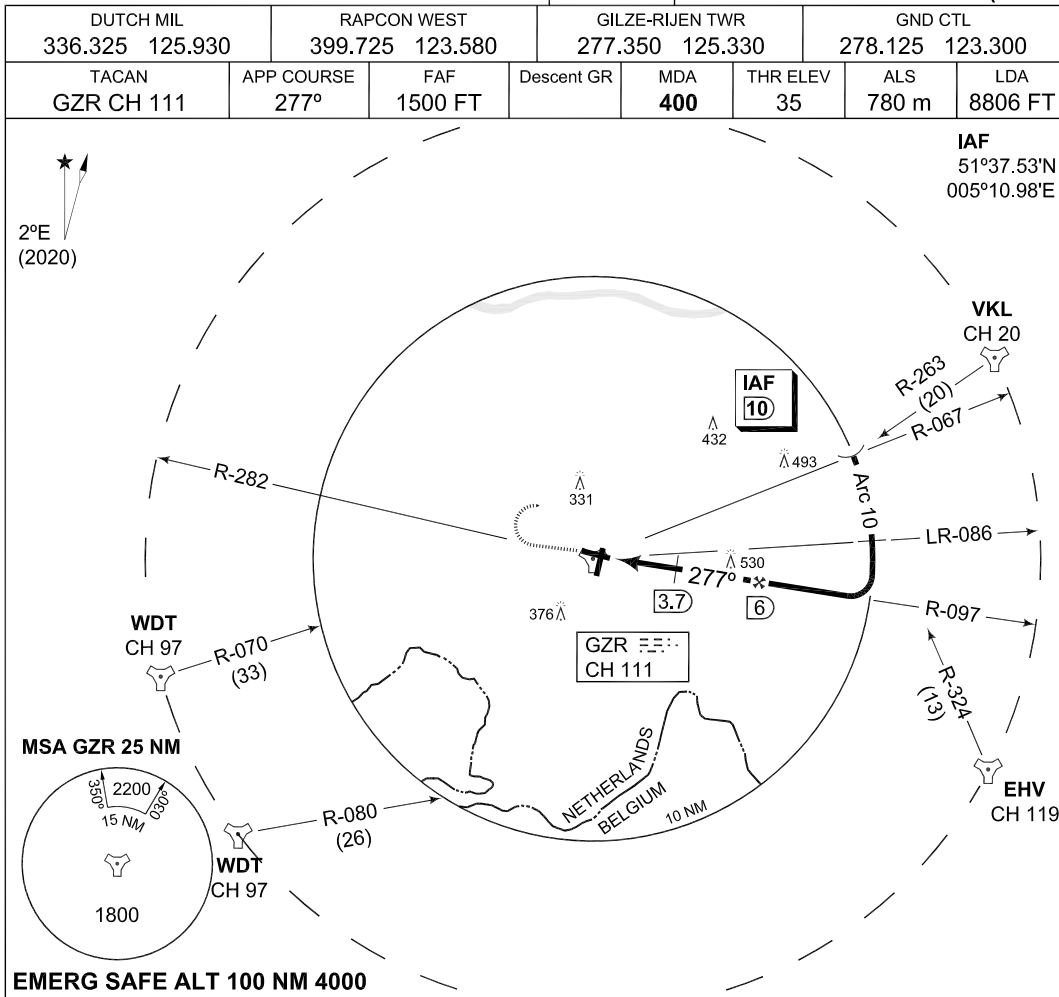
| | | | | | | | |
|------------------------------|--------------------|--------------------------------|------------|------------------------------------|----------------|----------------------------|----------------|
| DUTCH MIL 336.325 125.930 | | RAPCON WEST 399.725 123.580 | | GILZE-RIJEN TWR 277.350 125.330 | | GND CTL 278.125 123.300 | |
| TACAN GZR CH 111 | APP COURSE 277° | FAF 1500 FT | Descent GR | MDA 400 | THR ELEV 35 | ALS 780 m | LDA 8806 FT |



| | | | | | |
|-----------------------|--|--------------------------------|---------|--------------------------------|----------------------------------|
| CHANGES: GND CTL FREQ | THR ELEV 35 | 0.4 → | ← 2.7 → | ← 2.3 → | CAT I |
| | CATEGORY | C | | D | E |
| | MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | |
| MIPS | S-TACAN 28 | 400 -800 365 (400-0.8) | | 400 -1200 365 (400-1.2) | |
| MIPS | CIRCLING | 770 -3700 721 (800-3.7) | | 910 -4600 861 (900-4.6) | 1000 -6500 951 (1000-6.5) |

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MIPS INSTRUMENT APPROACH CHART **TACAN RWY 28 GILZE-RIJEN (EHGR)**

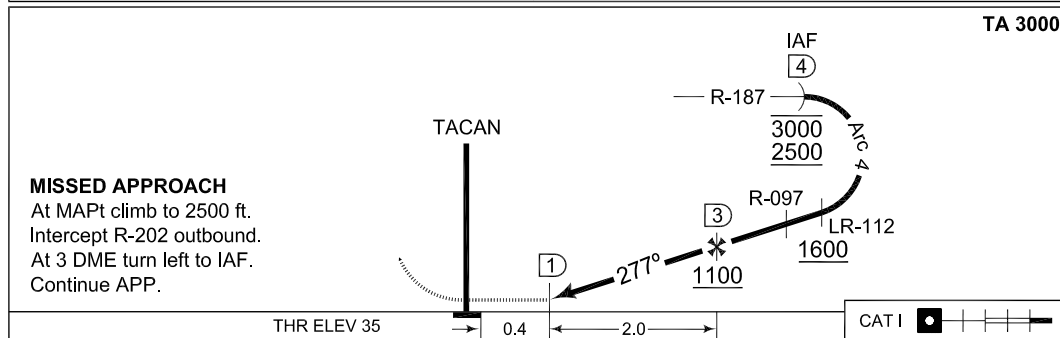
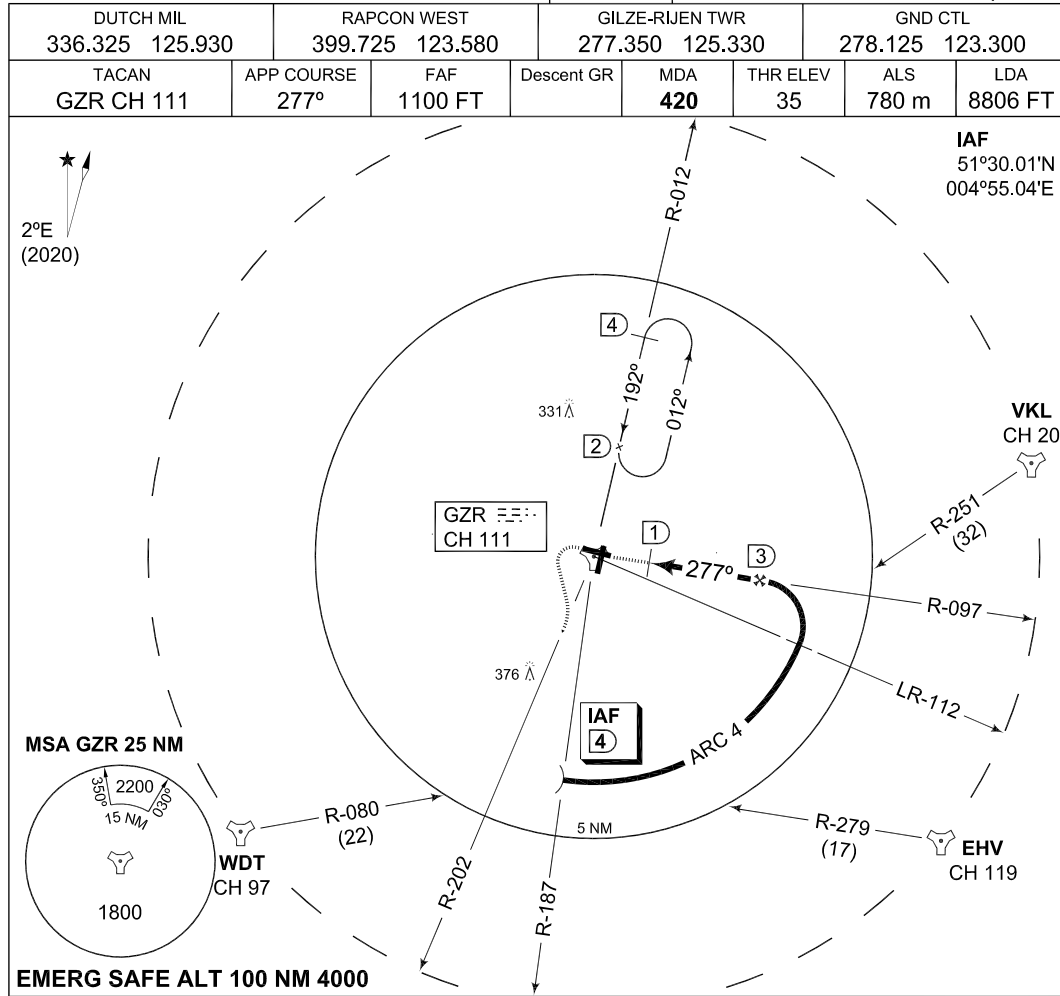


| CATEGORY | A | B | C | D | E |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----------------------------------|
| MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | | |
| S-TACAN 28 | 400 -800 365 (400-0.8) | | | 400 -1200 365 (400-1.2) | |
| CIRCLING | 540 -1900 491 (500-1.9) | 670 -2800 621 (700-2.8) | 770 -3700 721 (800-3.7) | 910 -4600 861 (900-4.6) | 1000 -6500 951 (1000-6.5) |

CHANGES: GND CTL FREQ MIPS

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MIPS INSTRUMENT APPROACH CHART **COPTER TACAN 277 GILZE-RIJEN (EHGR)**



| | |
|-------------|--------------------------------|
| CATEGORY | COPTER |
| S-TACAN 277 | 420 -400 385 (400-0.4) |
| CIRCLING | 540 -1900 491 (500-1.9) |

CHANGES: GND CTL FREQ

MIPS

RNLAF 13 JUN 2024



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PART 3 – AERODROMES (AD)

AD 2.

**AD 2. AERODROMES
DE KOOY**

DE KOOY

EHKD AD 2.1 Aerodrome location indicator and name

EHKD - De Kooy

EHKD AD 2.2 Geographical and administrative data

| | | |
|---|---|--|
| 1 | ARP | 52°55'25"N 004°46'50"E |
| 2 | Direction and distance from city | 172° MAG/2.9 NM DEN HELDER |
| 3 | Elevation/Reference temperature | + 4 ft AMSL/19.6° C (JUL) |
| 4 | MAG VAR/Annual change | 1°35'E (JAN 2020)/12'E |
| 5 | AD operating authority Postal address Visitors' address Telephone Airfield Manager Mon-Fri between 0700-1530 (0600-1430): ATC (AD OPR HR only): LCC (outside OPR HR): E-mail AFTN | DHC Maritiem Vliegekamp De Kooy MPC 10A P.O. Box 8762 4820 BB Breda Rijksweg 20 1780 CA Den Helder 088 - 9563130 088 - 9583310 088 - 9583300 vva.ehkd@mindef.nl EHKDZTZX |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | For CIV use see AIP Netherlands For request regarding UAS operations within EHKD CTR contact RPASdeKOOY@mindef.nl |

EHKD AD 2.3 Operational hours

| | | |
|----|----------------------------|---|
| 1 | AD OPR HR | Between April 1st and November 1st MON/THU 0700/0000 (0600/2300), FRI 0700/1530 (0600/1430) and between November 1st and April 1st MON/THU 0700/2200 (0600/2100), FRI 0700/1530 (0600/1430). |
| 2 | Customs and immigration | 30 MIN PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | See 2.23 para 5 |
| 5 | ATS Reporting Office (ARO) | See 2.23 para 5 |
| 6 | MET Briefing Office | Between April 1st and November 1st MON/THU 0500/0000 (0400/2300), FRI 0500/2100 (0400/2000) and between November 1st and April 1st MON/THU 0500/2200 (0400/2100), FRI 0500/2100 (0400/2000). SAT,SUN and HOL 0530/1100 (0430/1000) and 1330/1900 (1230/1800). |
| 7 | ATS | HO |
| 8 | Fuelling | HO |
| 9 | Handling | HO |
| 10 | Security | HO |
| 11 | De-icing | Not AVBL |
| 12 | Remarks | 1. AD CIV OPR HR MON/FRI 0600/2100 (0500/2000). SAT/SUN and legal HOL 0600/1100 (0500/1000) and 1400/1900 (1300/1800) 2. PPR see 2.23 para 2 3. Drone activities in harbor of Den Helder MON-FRI 0600-1430 details known by ATC |

EHKD AD 2.4 Handling services and facilities

| | | |
|---|--------------------------------|--|
| 1 | Cargo-handling facilities | AVBL |
| 2 | Fuel/oil types | 100LL, JET A-1, F-18, F-35, F-44 Oil, all regular types |
| 3 | Fuelling facilities/capacity | 100LL, limited. JET A-1, F-18, F-35, F-44, unlimited |
| 4 | Oxygen | No |
| 5 | De-icing facilities/type | No |
| 6 | Starting units | DSA 150, ST 56 |
| 7 | Hangar space for visiting ACFT | O/R |
| 8 | Repair facilities | O/R |
| 9 | Remarks | Nil |

EHKD AD 2.5 Passenger facilities

| | | |
|---|--------------------|--|
| 1 | Remain overnight | AVBL O/R and also in Den Helder and surroundings |
| 2 | Medical facilities | Medical officer, ambulance, hospital in Den Helder and Alkmaar |
| 3 | Remarks | Nil |

EHKD AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|-------|
| 1 | AD category for fire fighting | CAT 7 |
| 2 | Remarks | Nil |

EHKD AD 2.7 Seasonal availability - clearing

| | | |
|---|----------------------------|--|
| 1 | Type of clearing equipment | Snowplough and snowsweeper |
| 2 | Clearance priorities | SAR-spot, RWY and MIL/CIV apron |
| 3 | Remarks | Caution advised during snow and ice conditions |

EHKD AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---|---|
| 1 | Apron surface and strength | Tarmac/concrete, MIL Apron PCN 35 F/A/W/T |
| 2 | TWY width, surface and strength | TWY DELTA : Width 12 m PCN 33 F/A/W/T TWY DELTA 1: Width 12 m PCN 38 F/A/W/T TWY DELTA 2: Width 12 m PCN 47 F/A/W/T TWY DELTA 2X: Width 9,50 m PCN 21 F/A/W/T TWY DELTA 4: Width 12 m PCN 47 F/A/W/T TWY LIMA : Width 12 m PCN 33 F/A/W/T TWY PAPA: Width 12 m PCN 42 F/A/W/T |
| 3 | Altimeter checkpoint location elevation | Location 1: MIL apron (52° 55'31"N 004°47'04"E) Elevation: 2 ft AMSL Location 2: TWY LIMA (52°55'17"N 004°46'54"E) Elevation: 2 ft AMSL |
| 4 | Remarks | Dummy deck: PCN: 37 F/A/W/T |

EHKD AD 2.9 Surface movement guidance and control system and markings

| | | |
|-----------------------|---------|-----|
| According STANAG 3158 | | |
| 1 | Remarks | Nil |

EHKD AD 2.10 Aerodrome obstacles

| | | |
|----------------------|--|--|
| see Aerodrome Chart. | | |
|----------------------|--|--|

EHKD AD 2.11 Meteorological information provided

| | | |
|---|---|---|
| 1 | Associated MET Office | De Kooy |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHKD 088-9563140 or mail CLSK.DHC.LVL.METEO.MetBriefer@mindef.nl Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHKD AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|---|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | PCN 03: 62 F/A/W/T 21: 62 F/A/W/T |

EHKD AD 2.13 Declared distances

| RWY designator | TORA (FT) | TODA (FT) | ASDA (FT) | LDA (FT) | Remarks |
|---|-----------|-----------|-----------|----------|-------------------------------------|
| 03 | 4184 | 4381 | 4184 | 3377 | Take-off from runway extremity |
| | | 2379 | | | Take-off from intersection with D3 |
| | | 1924 | | | Take-off from intersection with D2X |
| | | 1418 | | | Take-off from intersection with D2 |
| 21 | 3789 | 3986 | 3789 | 3334 | Take-off from runway extremity |
| | | 2861 | | | Take-off from intersection with D2 |
| | | 2347 | | | Take-off from intersection with D2X |
| | | 1909 | | | Take-off from intersection with D3 |
| For determination of the datum line for an intersection take-off, see EHKD AD 2.23 paragraf 6 | | | | | |

EHKD AD 2.14 Approach and runway lighting

| According STANAG 3316 | | |
|-----------------------|-------------------|--|
| 1 | Approach lighting | RWY 21: CAT I. 870 m RWY 03: S-ALS. 360 m |
| 2 | RWY lighting | VHI |
| 3 | PAPI | Situated on the left side of both RWYs |
| 4 | Remarks | Nil |

EHKD AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|-------------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | VB |
| 3 | Emergency RWY lighting | No |
| 4 | Emergency TWY edge lighting | No |
| 5 | Secondary power supply/switch-over | AVBL, switch over time <1 seconds |
| 6 | Remarks | Anemometer in front of TWR, lighted |

EHKD AD 2.16 Helicopter landing area

| Helipad 1 | | |
|-----------|---|---|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'40"N 004°47'08"E Located on runway in pre-threshold area RWY 21 |
| 2 | TLOF and/or FATO elevation FT | 3 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 20 M x 20 M, CONC, PCN 62/F/A/W/T, White edges and white letter "H" and white identification number "1" |
| 4 | true bearing of FATO | 034° / 214° |
| 5 | Declared distances available | 43 M to end of runway pavement in direction 03, 1233 M to runway end in direction 21 |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Surface beyond FATO is RWY which extends to a width of 30 M |

| Helipad 2 | | |
|-----------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'30"N 004°46'56"E Located on runway at intersection D2 |
| 2 | TLOF and/or FATO elevation FT | 3 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 20 M x 20 M, ASPH, PCN 62/F/A/W/T, White edges and white identification number "2" |
| 4 | true bearing of FATO | 034° / 214° |
| 5 | Declared distances available | 418 M to end of runway pavement in direction 03, 857 M to runway end in direction 21 |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Surface beyond FATO is RWY which extends to a width of 30 M, Marking non-standard due to touchdown zone marking RWY 21 |

| Helipad 3 | | |
|-----------|---|---|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'25"N 004°46'50"E Located on runway in vicinity of intersection D2X |
| 2 | TLOF and/or FATO elevation FT | 3 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 20 M x 20 M, ASPH, PCN 62/F/A/W/T, White edges and white letter "H" and white identification number "3" |
| 4 | true bearing of FATO | 034° / 214° |
| 5 | Declared distances available | 622 M to end of runway pavement in direction 03, 654 M to runway end in direction 21 |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Surface beyond FATO is RWY which extends to a width of 30 M |

| Helipad 4 | | |
|-----------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'18"N 004°46'43"E Located on runway in vicinity of aiming point marking RWY 03 |
| 2 | TLOF and/or FATO elevation FT | 3 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 20 M x 20 M, ASPH, PCN 62/F/A/W/T, White edges and white identification number "4" |
| 4 | true bearing of FATO | 034° / 214° |
| 5 | Declared distances available | 865 M to end of runway pavement in direction 03, 410 M to runway end in direction 21 |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Surface beyond FATO is RWY which extends to a width of 30 M, Marking non-standard due to aiming point marking RWY 03 |

| Helipad 5 | | |
|-----------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'14"N 004°46'45"E Located on TWY D |
| 2 | TLOF and/or FATO elevation FT | 3 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 25 M x 25 M, ASPH, PCN 62/F/A/W/T, White edges and white identification number "5" |
| 4 | true bearing of FATO | 034° / 214° |
| 5 | Declared distances available | 400 M both directions |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Surface beyond FATO is extends to a width of 30 M, TLOF Lighting |

| Helipad 6 | | |
|-----------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'11"N 004°46'46"E Located on grass area A north of TWY P |
| 2 | TLOF and/or FATO elevation FT | 2 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 30 M x 30 M, grass fitted with reinforcing grass paving grids, PCN not AVBL, edges and "H" created with less conspicuous marking by use of concrete pavement |
| 4 | true bearing of FATO | 170° / 350° |
| 5 | Declared distances available | Information not available |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | |

| Helipad 7 | | |
|-----------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'00"N 004°46'56"E Located on southeast corner of grass area A |
| 2 | TLOF and/or FATO elevation FT | 1 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 30 M x 30 M, grass fitted with reinforcing grass paving grids, PCN not AVBL, edges and "H" created with less conspicuous marking by use of concrete pavement |
| 4 | true bearing of FATO | 090° / 270° |
| 5 | Declared distances available | Information not available |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | |

| Dummydeck | | |
|-----------|---|---|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'02"N 004°46'48"E Located on south part of grass area A |
| 2 | TLOF and/or FATO elevation FT | 2 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | rectangular 63 M x 26 M, CONC, PCN 37 F/A/W/T, marking consistent with naval vessel 2 landing spots |
| 4 | true bearing of FATO | NIL |
| 5 | Declared distances available | Information not available |
| 6 | APCH and FATO lighting | Lighting consistent with naval vessel |
| 7 | Remarks | |

| Slope | | |
|-------|---|--|
| 1 | Co-ordinates TLOF or THR of FATO Geoid undulation | 52°55'02"N 004°46'48"E Located on grass area A south of Den Helder Airport |
| 2 | TLOF and/or FATO elevation FT | inconsistent due to sloped area |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | grass fitted with reinforcing grass paving grids, PCN not AVBL, no marking |
| 4 | true bearing of FATO | NIL |
| 5 | Declared distances available | NIL |
| 6 | APCH and FATO lighting | NIL |
| 7 | Remarks | Sloped exercise landing area 5° an 10° |

EHKD AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|--|
| 1 | Designation and lateral limits | DE KOOY CTR 52°59'13.58"N 004°55'32.06"E; along clockwise arc (radius 6.5 NM, centre 52°55'25.00"N 004°46'50.00"E) to 53°01'42.82"N 004°49'26.26"E; 53°02'11.88"N 004°49'38.31"E; along clockwise arc (radius 7 NM, centre 52°55'25.00"N 004°46'50.00"E) to 52°59'31.13"N 004°56'12.28"E; to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially De Kooy TWR. English Outside HO DUTCH MIL INFO FREQ 132.350 MHZ. |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Caution: EHR 8 is active MON-THU 0700-2300 (0600-2200), FRI 0700-1600 (0600-1500), or activated by NO-TAM. Request ATC for crossing clearance. |

EHKD AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|---------------------------------|--|-------|---------------------------------|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | De Kooy Tower | 120.130 ^{*)} 122.100 379.750 ^{*)} 257.800 | HO | *) Primary FREQ |
| GND CTL | De Kooy Ground De Kooy Tower | 121.730 379.750 | HO | |
| APP | De Kooy Arrival | 124.230 ^{*)} 372.150 ^{*)} | HO | |
| | De Kooy Final | 123.305 359.100 | HO | SSR only |
| | ATIS | 133.010 | H24 | |

EHKD AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|------------------|-----|-------------------|-------|---------------------------------|---|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| DME | HDR | 115.550 CH102Y | H24 | 52°54'24.68"N 004°45'56.60"E | 120 NM/FL 250 90 NM/FL 250 BTN 015/150° MAG | 210° MAG 0.9 DME from THR RWY 03 |
| ILS LOCALIZER | DKY | 108.900 | H24 | 52°55'04.99"N 004°46'28.51"E | | |
| GLIDEPATH | | 329.300 | H24 | 52°55'28.66"N 004°46'47.38"E | | |
| DME | DKY | CH26X | H24 | 52°55'28.66"N 004°46'47.38"E | | DME reading at THR RWY21: 0.2 NM |

EHKD AD 2.20 Local traffic regulations

1. Intensive training operations with helicopter and light aircraft. Light aircraft and model flying daily outside OPR HR. Glider site Wieringermeer is located 8NM SE of ARP, just outside CTR/RMZ.
2. VFR traffic crossing the CTR shall be carried out via the VFR reporting points (see visual approach chart) at 1500 ft AMSL, unless otherwise instructed or approved by ATC.
3. Visual traffic circuit: RWY 03 right-hand 1000 ft AMSL; RWY 21 left-hand 1000 ft AMSL.
4. Overflying the gas plant (0.5 NM east of ARP) is prohibited

EHKD AD 2.21 Noise abatement procedures

ARR + DEP procedures are according standard VFR/IFR routes. Avoid overflying of Den Helder (2 NM NNW of ARP) and built-up areas as much as possible.

Avoid overflying camping southeast of FOXTROT below 1500 ft AMSL (see AIP Netherlands EHKA AD 2.21).

Due to noise abatement over Julianadorp RNP Y RWY 03 only available when reported cloud-base is below 500 ft.

EHKD AD 2.22 Flight procedures

IFR procedures

The IAP and SID procedures are established in accordance with STANAG 3759 and AATCP-1.

RNP Z approach RWY 03 (offset)

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag ^o /(T ^o) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA(° TCH (ft)) | NAV spec |
|---------------|-----------------|-----------|----------|--|--------------|---------|------|--------------------|--------------|-----------------|----------|
| 001 | IF | NIXCO | - | - | - | - | - | + 2000 | - | - | - |
| 002 | TF | EDFOS | - | 070 (072.0) | - | 3.0 | - | - | - | - | RNAV1 |
| 003 | IF | ASTUW | - | - | - | - | - | + 2000 | - | - | - |
| 004 | TF | KD441 | - | 259 (260.4) | - | 1.9 | - | + 2000 | - | - | RNAV1 |
| 005 | TF | EDFOS | - | 279 (280.7) | - | 2.0 | - | + 2000 | - | - | RNAV1 |
| 006 | IF | EDFOS | - | - | - | - | - | + 2000 | - | - | - |
| 007 | TF | KD442 | - | 009 (010.6) | - | 3.0 | - | + 2000 | - | - | RNAV1 |
| 008 | TF | HDR MAPt | Y | 009 (010.6) | - | 5.2 | - | - | - | -3.00/50 | RNP APCH |
| 009 | CA | - | - | 009 (010.6) | - | - | - | +1000 | - | - | RNP APCH |
| 010 | DF | KD444 | Y | - | - | - | R | - | - | - | RNP APCH |
| 011 | DF | HDR | - | - | - | - | R | @2000 | - | - | RNP APCH |

RNP Y approach RWY 03

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag ^o /(T ^o) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA(° TCH (ft)) | NAV spec |
|---------------|-----------------|-----------|----------|--|--------------|---------|------|--------------------|--------------|-----------------|----------|
| 001 | IF | NOFUD | - | - | - | - | - | + 2000 | - | - | - |
| 002 | TF | KOPFA | - | 032 (033.8) | - | 3.0 | - | + 1200 | - | - | RNAV1 |
| 003 | IF | FEWEX | - | - | - | - | - | + 2000 | - | - | - |
| 004 | TF | KOPFA | - | 102 (103.8) | - | 3.0 | - | + 1200 | - | - | RNAV1 |
| 005 | IF | TAFTU | - | - | - | - | - | + 2000 | - | - | - |
| 006 | TF | KOPFA | - | 322 (323.8) | - | 3.0 | - | + 1200 | - | - | RNAV1 |
| 007 | IF | KOPFA | - | - | - | - | - | + 1200 | - | - | - |
| 008 | TF | KD445 | - | 032 (033.8) | 2.5 | 2.5 | - | + 1200 | - | - | RNP APCH |
| 009 | TF | THR03 | Y | 032 (033.8) | - | 2.9 | - | - | - | -3.72/50 | RNP APCH |
| 010 | CA | - | - | 032 (033.8) | - | - | - | +1000 | - | - | RNP APCH |
| 011 | DF | KD444 | Y | - | - | - | R | - | - | - | RNP APCH |
| 012 | DF | HDR | - | - | - | - | R | @2000 | - | - | RNP APCH |

FAS DATA BLOCK - RNP Y RWY 03

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHKD |
| Runway | 03 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Y |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E03A |
| LTP/FTP Latitude | 525511.1730N |
| LTP/FTP Longitude | 0044635.3850E |
| LTP/FTP Ellipsoidal Height (metres) | 43.0 |
| FPAP Latitude | 525538.4540N |
| Delta FPAP Latitude (seconds) | 27.2810 |
| FPAP Longitude | 0044705.7330E |
| Delta FPAP Longitude (seconds) | 30.3480 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.72 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 04 0B 08 05 03 C8 00 01 33 30 05 8A F0 B5 16 F2 C2 0C 02 AE 15 22 D5 00 18 ED 00 F4 01 74 01 64 00 C8 AF 3E 74 39 A7 |
| Calculated CRC Value | 3E7439A7 |
| Supplied CRC Value | 3E7439A7 |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|-----|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 0.8 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

RNP Z approach RWY 21

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA(° TCH (ft) | NAV spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | PUFLA | - | - | - | - | - | + 2000 | - | - | - |
| 002 | TF | KD451 | - | 122 (124.0) | - | 4.5 | - | + 2000 | - | - | RNAV1 |
| 003 | TF | ZOJIK | - | 122 (124.0) | - | 3.0 | - | + 1700 | - | - | RNAV1 |
| 004 | IF | JOPFI | - | - | - | - | - | + 2000 | - | - | - |
| 005 | TF | ZOJIK | - | 302 (304.0) | - | 3.0 | - | + 1700 | - | - | RNAV1 |
| 006 | IF | FAFLO | - | - | - | - | - | + 2000 | - | - | - |
| 007 | TF | ZOJIK | - | 212 (214.0) | - | 3.0 | - | + 1700 | - | - | RNAV1 |
| 008 | IF | ZOJIK | - | - | - | - | - | + 1700 | - | - | - |
| 009 | TF | KD452 | - | 212 (214.0) | - | 3.0 | - | + 1700 | - | - | RNP APCH |
| 010 | TF | THR21 | Y | 212 (214.0) | - | 5.2 | - | - | - | -3.00/50 | RNP APCH |
| 011 | CA | KD453 | Y | 212 (214.0) | - | - | - | +500 | - | - | RNP APCH |
| 012 | DF | - | - | - | - | - | L | - | - | - | RNP APCH |
| 013 | DF | HDR | - | - | - | - | R | @2000 | -120 | - | RNP APCH |

FAS DATA BLOCK - RNP Z RWY 21

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHKD |
| Runway | 21 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Z |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E21A |
| LTP/FTP Latitude | 525535.0820N |
| LTP/FTP Longitude | 0044701.9810E |
| LTP/FTP Ellipsoidal Height (metres) | 42.8 |
| FPAP Latitude | 525507.4490N |
| Delta FPAP Latitude (seconds) | -27.6330 |
| FPAP Longitude | 0044631.2450E |
| Delta FPAP Longitude (seconds) | -30.7360 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.00 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 04 0B 08 05 15 D0 00 01 31 32 05 54 AB B6 16 BA 92 0D 02 AC 15 1E 28 FF E0 0F FF F4 01 2C 01 64 00 C8 AF 02 C1 6B ED |
| Calculated CRC Value | 02C16BED |
| Supplied CRC Value | 02C16BED |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|-----|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 0.6 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

RNP Y approach RWY 21

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°(T°) | Recom navaid | Dist nm | turn | Altitude (ftAMSL) | Speed (KIAS) | VPA(° TCH (ft)) | NAV spec |
|---------------|-----------------|-----------|----------|-----------------|--------------|---------|------|-------------------|--------------|-----------------|----------|
| 001 | IF | LOCFU | - | - | - | - | - | + 2000 | - | - | - |
| 002 | TF | KD454 | - | 122 (124.0) | - | 5.0 | - | + 1500 | - | - | RNAV1 |
| 003 | TF | HOXZA | - | 122 (124.0) | - | 2.0 | - | + 1200 | - | - | RNAV1 |
| 004 | IF | YOJUP | - | - | - | - | - | + 2000 | - | - | - |
| 005 | TF | HOXZA | - | 302 (304.0) | - | 3.0 | - | + 1200 | - | - | RNAV1 |
| 006 | IF | GOHEM | - | - | - | - | - | + 2000 | - | - | - |
| 007 | TF | HOXZA | - | 212 (214.0) | - | - | - | + 1200 | - | - | RNAV1 |
| 008 | IF | HOXZA | - | - | - | - | - | + 1200 | - | - | - |
| 009 | TF | KD455 | - | 212 (214.0) | - | 2.8 | - | + 1200 | - | - | RNP APCH |
| 010 | TF | THR21 | Y | 212 (214.0) | - | 2.4 | - | - | - | -4.50/50 | RNP APCH |
| 011 | CA | - | - | 212 (214.0) | - | - | - | + 500 | - | - | RNP APCH |
| 012 | DF | KD453 | Y | - | - | - | L | - | - | - | RNP APCH |
| 013 | DF | HDR | - | - | - | - | R | @2000 | - | - | RNP APCH |

FAS DATA BLOCK RNP Y RWY 21

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHKD |
| Runway | 21 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Y |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E21B |
| LTP/FTP Latitude | 525535.0820N |
| LTP/FTP Longitude | 0044701.9810E |
| LTP/FTP Ellipsoidal Height (metres) | 42.8 |
| FPAP Latitude | 525507.4490N |
| Delta FPAP Latitude (seconds) | -27.6330 |
| FPAP Longitude | 0044631.2450E |
| Delta FPAP Longitude (seconds) | -30.7360 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 4.50 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 04 0B 08 05 15 C8 00 02 31 32 05 54 AB B6 16 BA 92 0D 02 AC 15 1E 28 FF E0 0F FF F4 01 C2 01 64 00 C8 AF 7B 17 85 05 |
| Calculated CRC Value | 7B178505 |
| Supplied CRC Value | 7B178505 |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|-----|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 0.6 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

VFR procedures

APPROACH PROCEDURES:

Contact De Kooy TWR 2 minutes before reaching the CTR BDRY, for permission to enter the CTR. Unless otherwise instructed, enter the CTR via designated reporting points at 1500 ft and maintain. Descent to circuit altitude according the joining procedure which will be instructed by ATC.

- a. Overhead joining. Report overhead, join downwind and descent to 1000 ft.
- b. Direct joining (ATC discretion only). After passing one of the following reporting points (Hotel, Bravo, Romeo or Foxtrot) join the circuit and descent to circuit altitude as instructed by ATC.

The following arrivals have been established.

- a. Whiskey arrival: proceed via Whiskey to Hotel.
- b. Oscar arrival: proceed via Oscar to Hotel.
- c. Echo arrival: proceed via Echo to Bravo.
- d. Zulu arrival: proceed via Zulu to Romeo.

ATC discretion only, when EHR 8 (partly) inactive.

- e. Foxtrot arrival: at CTR BDRY proceed to Foxtrot.
- f. Mike arrival: at CTR BDRY proceed via Mike to Hotel.

(see visual local map)

DEPARTURE PROCEDURES:

Unless otherwise instructed or approved climb after take-off to 1000 ft. The following departures have been established.

- a. Whiskey departure: proceed via Hotel to Whiskey.
- b. Oscar departure: proceed via Hotel to Oscar.
- c. Echo departure: proceed via Bravo to Echo.
- d. Zulu departure: proceed via Romeo to Zulu.

ATC discretion only, when EHR 8 (partly) inactive:

- e. Foxtrot departure: proceed via Foxtrot to CTR BDRY.
- f. Mike departure: proceed via Hotel and Mike to CTR BDRY.

Leave the CTR via the designated reporting points.

REPORTING POINTS in degrees, minutes and seconds:

The following reporting points have been established (see local map):

- Hotel: 200 m north-east of the Drydock
52°57'52"N 004°48'12"E).
- Bravo: Intersection Zandvaart/Balgzandkanaal
52°54'08"N 004°49'58"E).
- Echo: South-east bank of Amstelmeer
52°52'19"N 004°56'08"E).
- Romeo: Intersection N9 - Callantsoogervaart
52°52'36"N 004°46'06"E).
- Zulu: Bridge de Stolpen - N9 - Noordhollandskanaal
52°48'52"N 004°44'25"E).
- Foxtrot: Intersection Middenvliet/Zanddijk
52°55'02"N 004°43'15"E).
- Whiskey: Car park near beach Jan Ayeslag
53°02'21"N 004°42'58"E).

Oscar: Fort de Schans
53°01'56"N 004°49'36"E).

Mike: North-east corner of sandbank Noorderhaaks
52°58'50"N 004°41'37"E).

CIRCUIT PROCEDURES:

Circuit ALT 1000 ft. RWY 21 L/H circuit RWY 03 R/H circuit. Landing direction 270°, 090°, 350° and 170° may be used for HEL flying, circuit direction as instructed by ATC.

Low visibility procedures

During periods of low visibility the overall ATC capacity could be reduced. To guarantee aircraft safety and optimal use of ATC capacity, De Kooy uses Low Visibility Procedures.

| Phase | Conditions | Procedure |
|-------|---|---|
| A | RVR \leq 1500 m and/or ceiling \leq 300ft | All WIP on airside will be terminated. Separation between landing aircraft will be increased to 8 nm. No opposite runway take-off and landings. |
| B | RVR < 550 m | Departures only. No simultaneous ground movements. |
| C | RVR < 300 m | The airport is below operational minima for arriving and departing aircraft. |

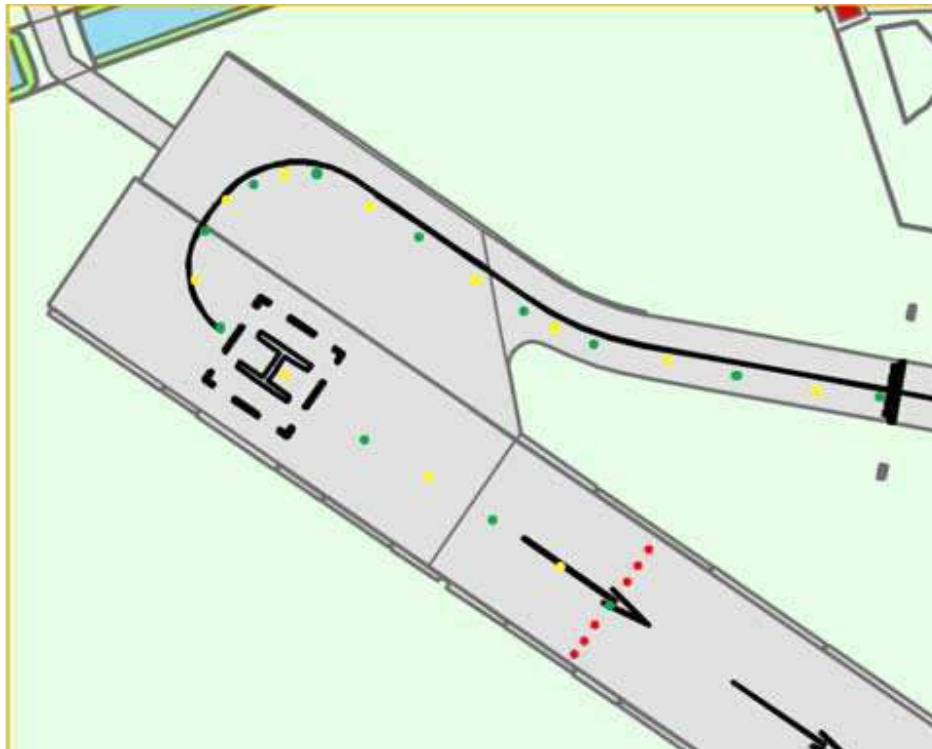
NOTE: In contrast to annex 2 military aerodromes define ceiling as 3/8 (SCT) or more.

EHKD AD 2.23 Additional information

1. DISPLACED RUNWAY END RWY 03:

After landing RWY 03, passing the runway end lights at taxiing speed is allowed. Beyond the runway end lights the pavement is classified as taxiway and equipped with alternating green/yellow centre line lights upto exit D1.

Take-off RWY 21 is allowed from the runway extremity.



2. EHR8 (prohibited/gunfiring) extending in the CTR. The eastboundary is east of the dunes.

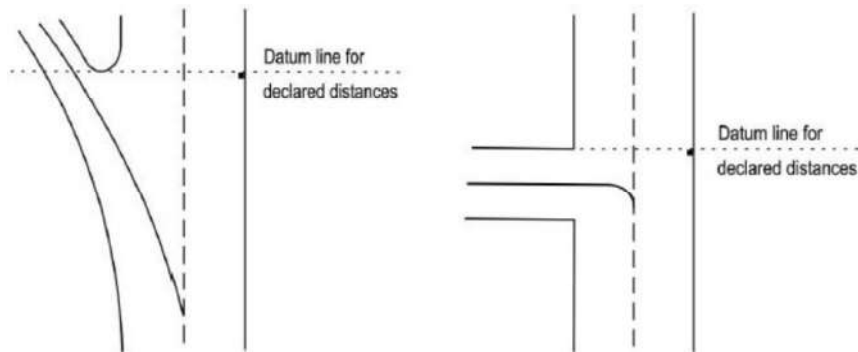
3. PPR: for PPR Request contact:

LCC De Kooy Flight Information Office via e-mail: DHC.LCC.MVKK@mindef.nl

Requests must contain the following information.

- a. Inbound De Kooy for practice approaches only or full stop landing.
- b. Name and phonenumber concerning person of contact.
- c. Call sign and/or ACFT registration.
- d. Type of ACFT.
- e. DOF (Date Of Flight).
- f. Aerodrome of departure.
- g. ETA (Estimated Time of Arrival) at De Kooy.
- h. ETD (Estimated Time of Departure) from De Kooy.
- i. Aerodrome of arrival.
- j. Name of aircraft operator. Incomplete requests will NOT be considered. A standard request form may be obtained through previously mentioned e-mail address.

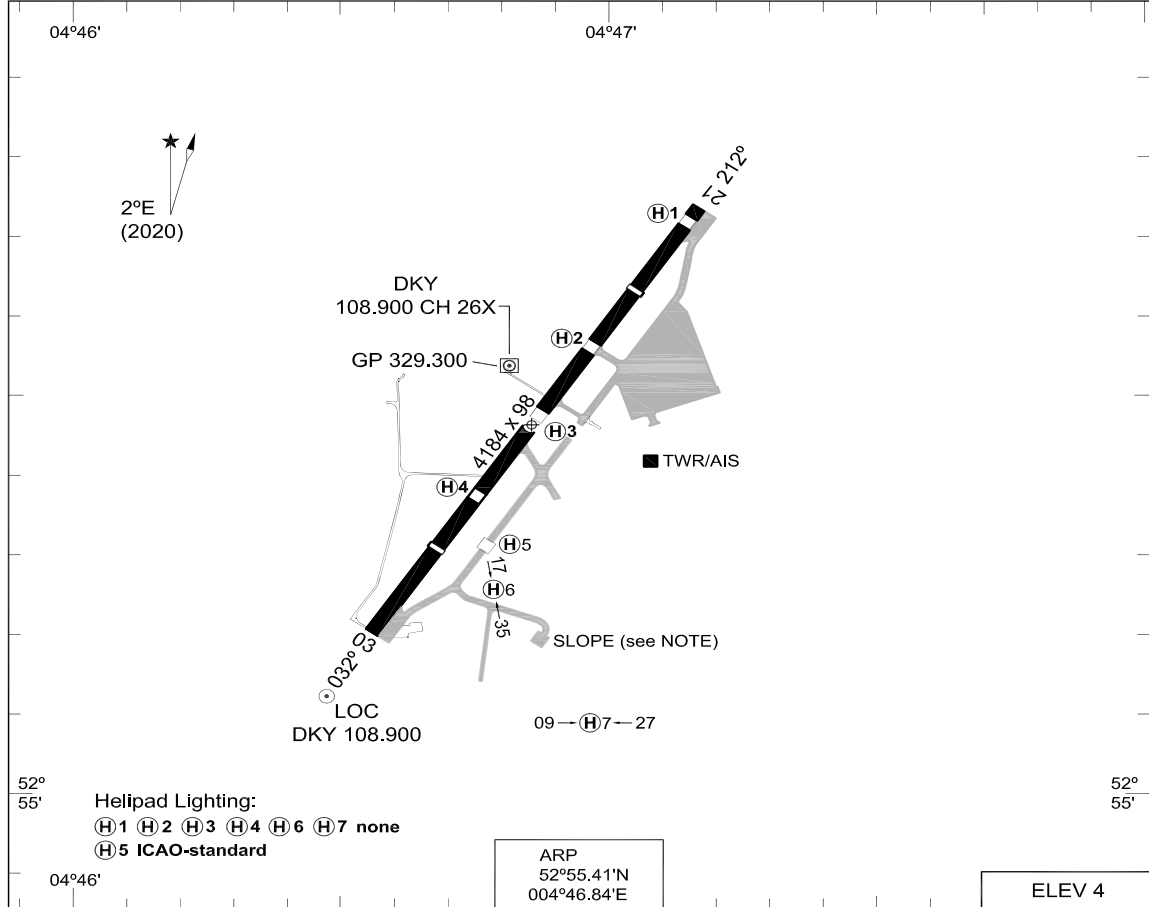
4. When intending a full stop landing at de Kooy please also include if refuel, hangar space, accommodation or other is required.
5. AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.
 Tel: +31(0)20 4062840
 Tel: +31(0)20 4062841
 E-mail: aocs.fdns@mindef.nl
 AFTN: EHMCPZX
 avlbl H24
6. **DETERMINATION OF DATUM LINE FOR INTERSECTION TAKE-OFF**
 The datum line from which the reduced runway declared distances for take-off should be determined is defined by the intersection of the downwind edge of the specific taxiway with the runway edge as shown in the diagram below. The loss of runway length due to alignment of the aircraft prior to take-off should be taken into account by the operators for the calculation of the aircraft's take-off mass (ICAO Annex 6, Part 1, paragraph 5.2.8)



EHKD AD 2.24 Charts related to an aerodrome

| | |
|---|--------------|
| Aerodrome chart | EHKD AD 2-21 |
| Local map | EHKD AD 2-22 |
| MVA chart | EHKD AD 2-23 |
| Instrument approach chart RNP Z RWY 03 | EHKD AD 2-24 |
| Instrument approach chart RNP Y RWY 03 | EHKD AD 2-25 |
| Instrument approach chart ILS or LOC RWY 21 | EHKD AD 2-26 |
| Instrument approach chart COP ILS or LOC RWY 21 | EHKD AD 2-27 |
| Instrument approach chart RNP Z RWY 21 | EHKD AD 2-28 |
| Instrument approach chart RNP Y RWY 21 | EHKD AD 2-29 |

MIPS AERODROME CHART DE KOOY (EHKD)



| RWY | PCN | TORA | ASDA | TODA | LDA | THR ELEV | THR PSN |
|-----|------------|------|------|------|------|----------|------------------------|
| 21 | 62 F/A/W/T | 4184 | 4184 | 4381 | 3377 | 2 | 52°55.58'N 004°47.03'E |
| 03 | 62 F/A/W/T | 3789 | 3789 | 3986 | 3334 | 3 | 52°55.19'N 004°46.59'E |

DE KOOY TWR 379.750 120.130 121.730 or 379.750 (Ground Control)
 DE KOOY ARRIVAL 372.150 124.230

| | PROC. CRITERIA | RWY | GS | TCH | OTCH | RPI | CAT | MINIMA CRITERIA | MINIMA |
|-----|----------------|----------|----|-----|------|-----|------------|-----------------|--|
| SRA | MIPS MIPS | 21 03 | | | | | ABH ABH | MIPS MIPS | 500-1500 498 (500-1.5/2.3) 420-1700 417 (500-1.7/1.9) |

NOTE: SLOPE; WESTSIDE 5°, SOUTHSIDE 10°.

CHANGES: MINIMA

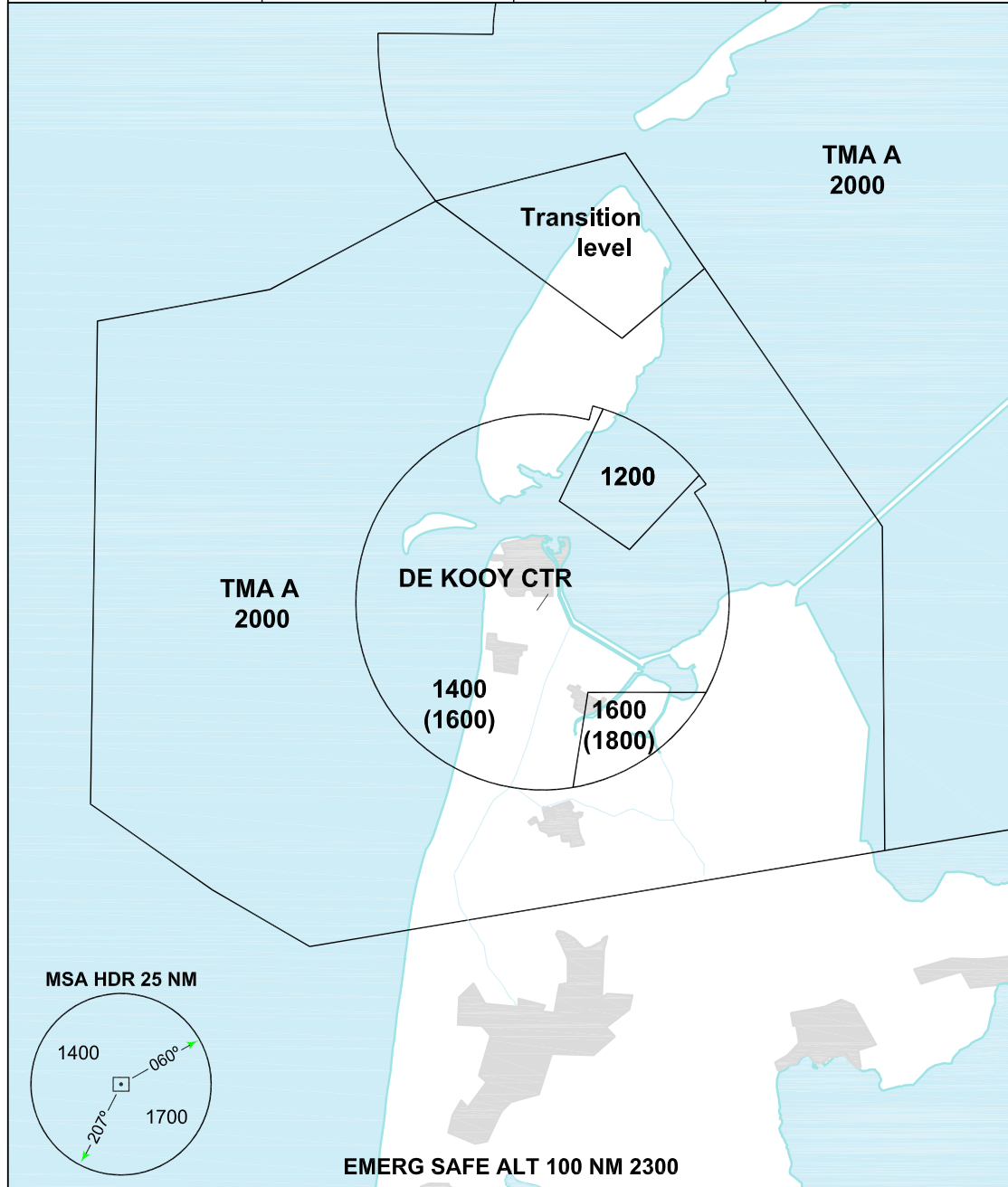
RNLAF 07 SEP 2023

LOCAL MAP



MIPS **MINIMUM VECTORING ALTITUDE** **MVA CHART**
DE KOOY (EHKD)

| | | | | | | | | | |
|-----------|---------|-----------------|---------|-----------|---------|-------------|---------|---------|---------|
| DUTCH MIL | | DE KOOY ARRIVAL | | AD ELEV 4 | | DE KOOY TWR | | GND CTL | |
| 259.250 | 128.355 | 372.150 | 124.230 | 379.750 | 120.130 | 379.750 | 121.730 | 379.750 | 121.730 |



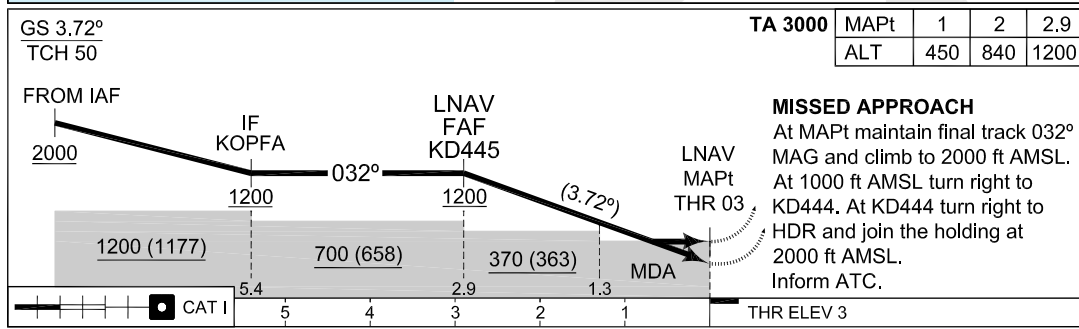
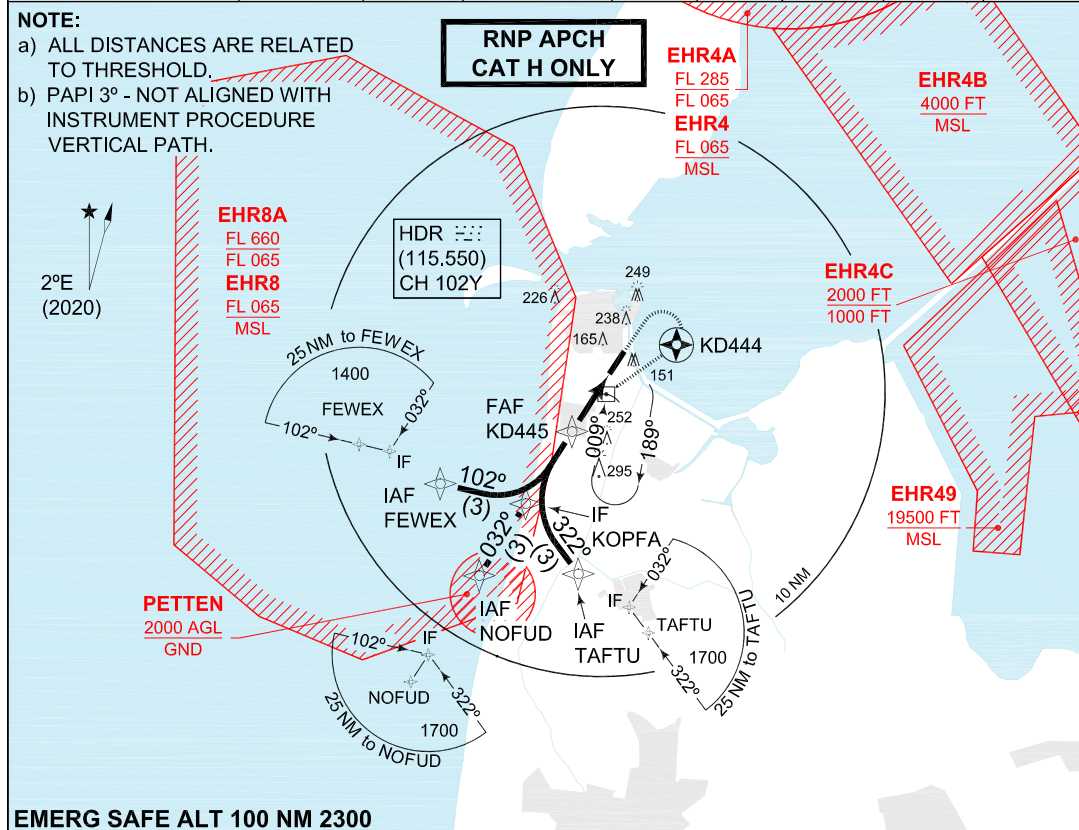
CHANGES: EDITORIAL

- THE ALTITUDE BETWEEN BRACKETS IS TO BE USED FOR THE CORRESPONDING SECTOR WHEN AIR TEMPERATURE AT AIRBASE ALTITUDE IS LOWER THAN -16°.
- ALTITUDES ONLY AVAILABLE IF THE RADAR COVERAGE PERMITS.

RNLAf 30 DEC 2021

MIPS INSTRUMENT APPROACH CHART **RNP Y RWY 03 DE KOOY (EHKD)**

| | | | | | | | | | |
|------------------------------|--|------------------------------------|--------------------|--------------------------------|------------|----------------------------|---------------|------------------|----------------|
| DUTCH MIL 259.250 128.355 | | DE KOOY ARRIVAL 372.150 124.230 | | DE KOOY TWR 379.750 120.130 | | GND CTL 379.750 121.730 | | ATIS* 133.010 | |
| EGNOS CHANNEL 69781 E03A | | APP COURSE 032° | FAF ALT 1200 FT | Descent GR 6.5% / 3.72° | MDA 350 | DA 203 | THR ELEV 3 | ALS 360 m | LDA 3334 FT |

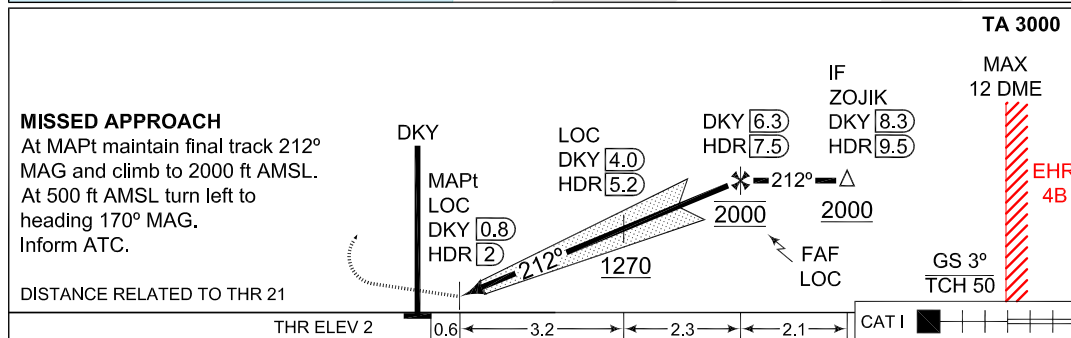
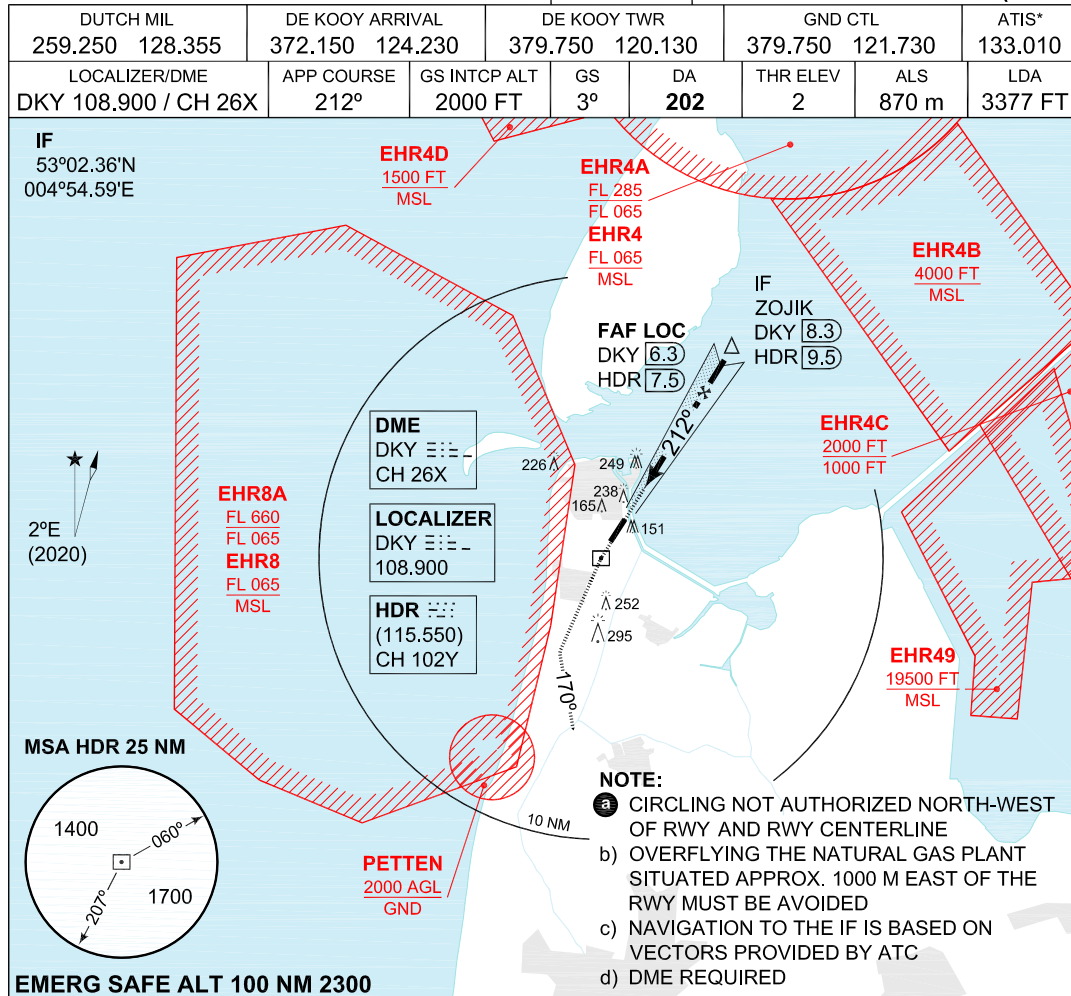


| | | | | | | | |
|----------|-------------------|----------------------------|-------------|-------|--------|------------|-------------|
| CATEGORY | | H | | | | | |
| MIPS | DA(H) LPV | 203-1000 200 (200-1.0/1.2) | | | | | |
| | DA(H) LNAV / VNAV | NOT AUTHORIZED | | | | | |
| | MDA(H) LNAV | 350-1400 347 (400-1.4/1.6) | | | | | |
| IAWP | FEWEX | 52°51.42'N | 004°36.82'E | FAWP | KD445 | 52°52.78'N | 004°43.92'E |
| IAWP | NOFUD | 52°48.22'N | 004°38.87'E | MAWP | THR 03 | 52°55.19'N | 004°46.59'E |
| IAWP | TAFTU | 52°48.29'N | 004°44.54'E | MATWP | KD444 | 52°56.31'N | 004°49.78'E |
| IWP | KOPFA | 52°50.71'N | 004°41.62'E | HF | HDR | 52°54.41'N | 004°45.94'E |

CHANGES: EDITORIAL

RNLAF 26 JAN 2023

MIPS INSTRUMENT APPROACH CHART **ILS or LOC RWY 21 DE KOOY (EHKD)**

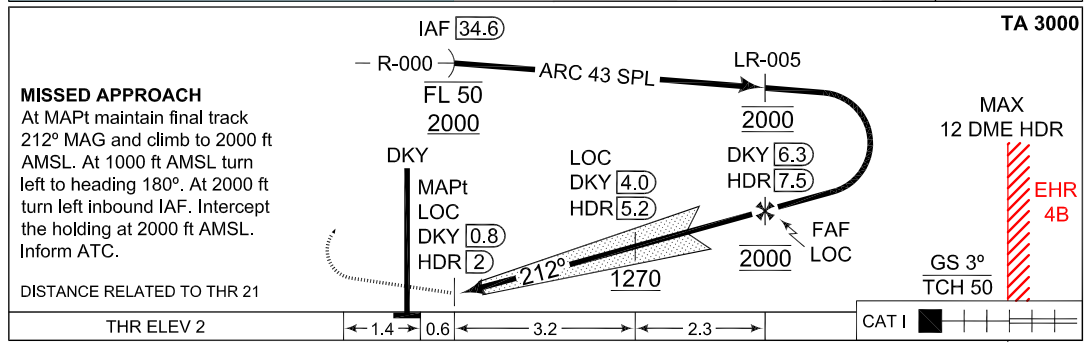
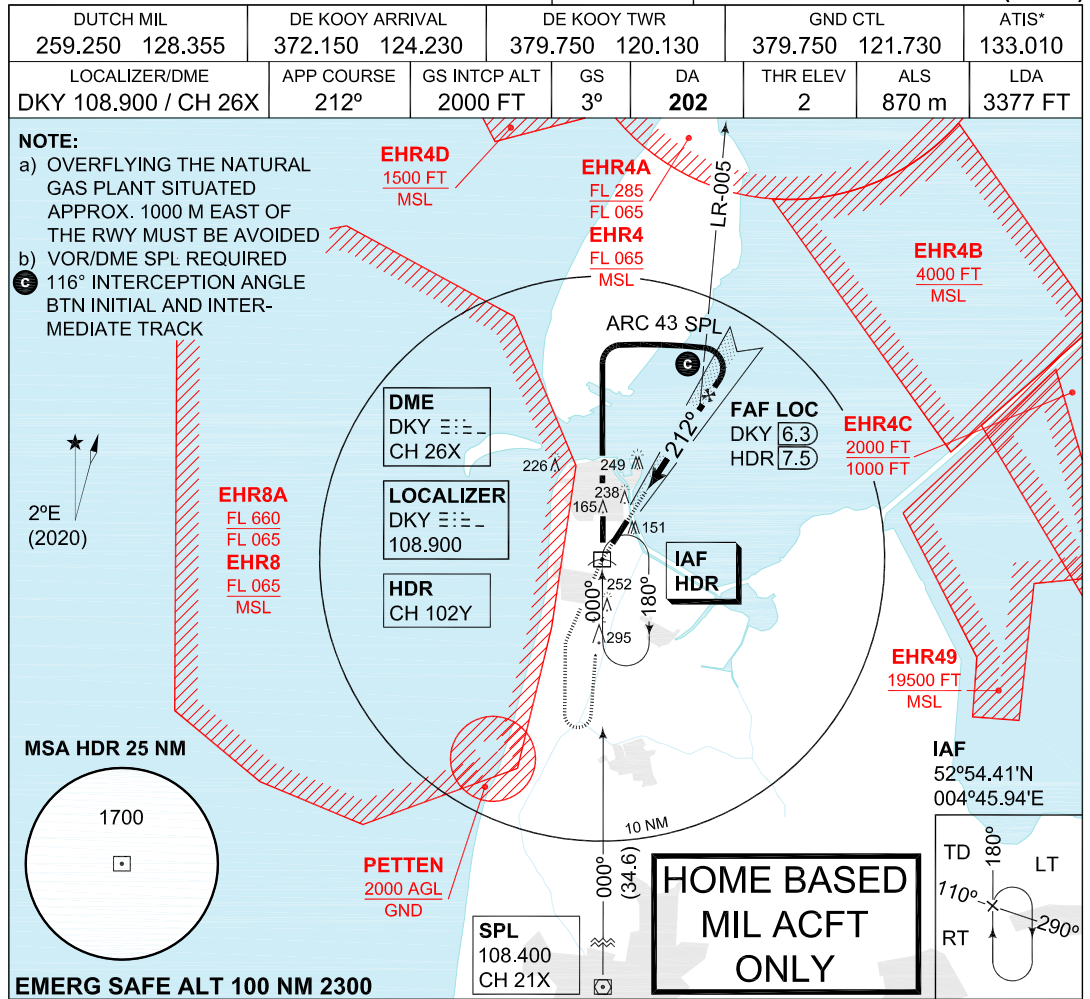


| CATEGORY | A | B | H |
|-----------------------|--------------------------------|--------------------------------|--------------------------------|
| S-ILS 21 | 202 -800 200 (200-0.8) | | 202 -400 200 (200-0.4) |
| CIRCLING ^a | 510 -1900 506 (600-1.9) | 550 -2800 546 (600-2.8) | 510 -1900 506 (600-1.9) |
| S-LOC 21 | 330 -800 328 (400-0.8) | | 330 -400 328 (400-0.4) |

CHANGES: NEW LAYOUT

RNLAF 11 AUG 2022

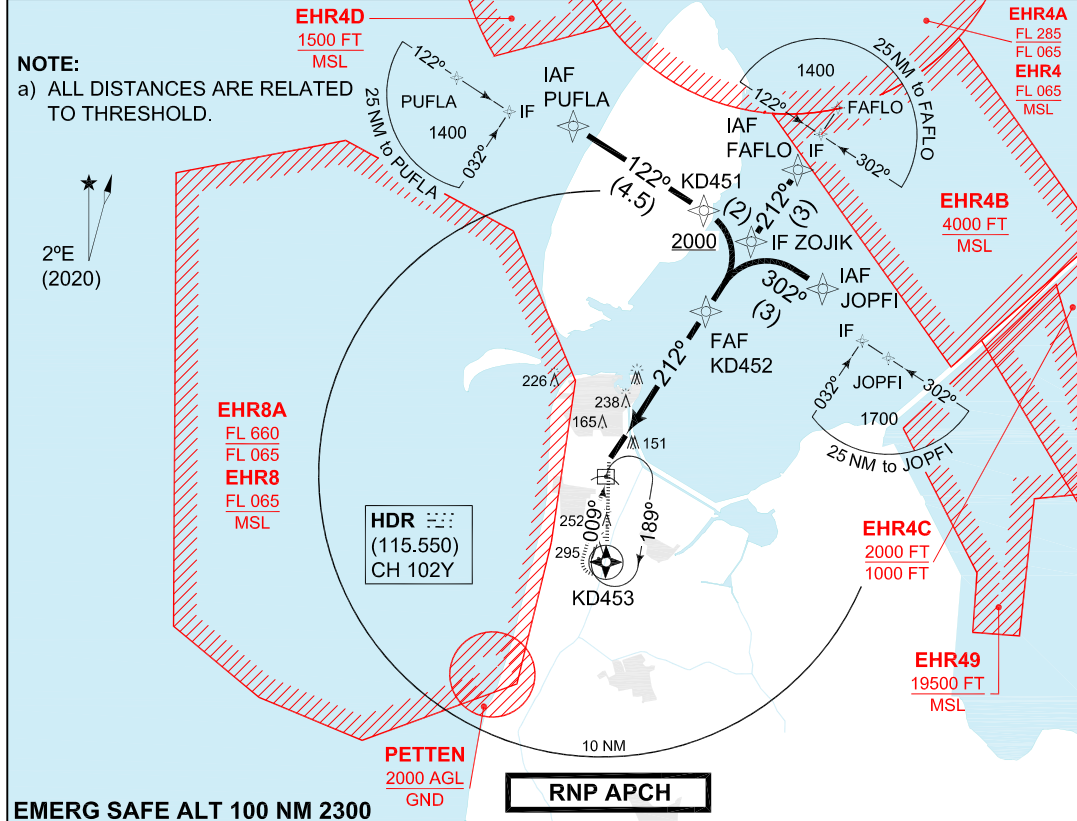
MIPS INSTRUMENT APPROACH CHART **COPTER ILS or LOC RWY 21 DE KOOY (EHKD)**



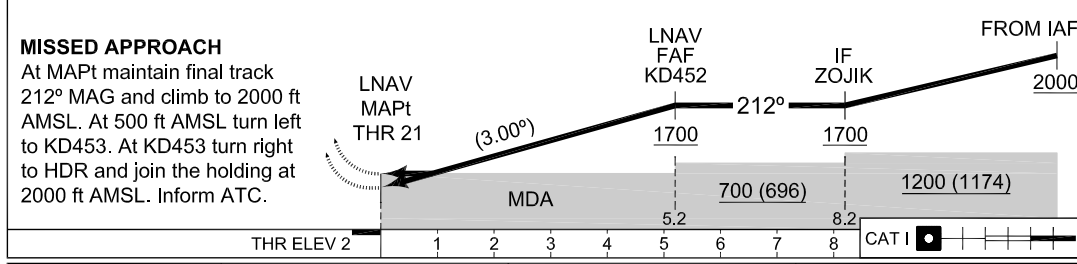
| | | | |
|---------------------|----------|----------|---------------------------|
| | CATEGORY | H | |
| CHANGES: NEW LAYOUT | MIPS | S-ILS 21 | 202-400 200 (200-0.4/0.8) |
| | | S-LOC 21 | 330-400 328 (400-0.4/0.8) |

MIPS INSTRUMENT APPROACH CHART **RNP Z RWY 21 DE KOOY (EHKD)**

| | | | | | | | | | |
|------------------------------|--------------------|------------------------------------|-----------------------------|--------------------------------|----------------------|----------------------------|--------------|------------------|--|
| DUTCH MIL 259.250 128.355 | | DE KOOY ARRIVAL 372.150 124.230 | | DE KOOY TWR 379.750 120.130 | | GND CTL 379.750 121.730 | | ATIS* 133.010 | |
| EGNOS CHANNEL 62338 E21A | APP COURSE 212° | FAF ALT 1700 FT | Descent GR 5.24% / 3.00° | MDA SEE CAT | DA SEE CAT | THR ELEV 2 | ALS 870 m | LDA 3377 FT | |

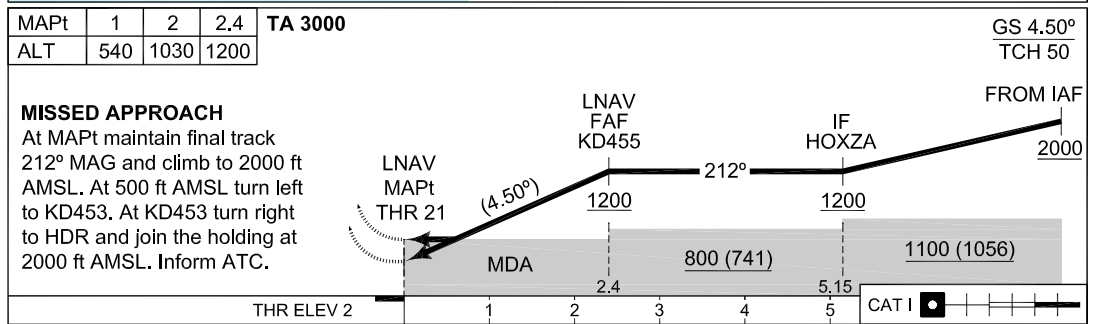
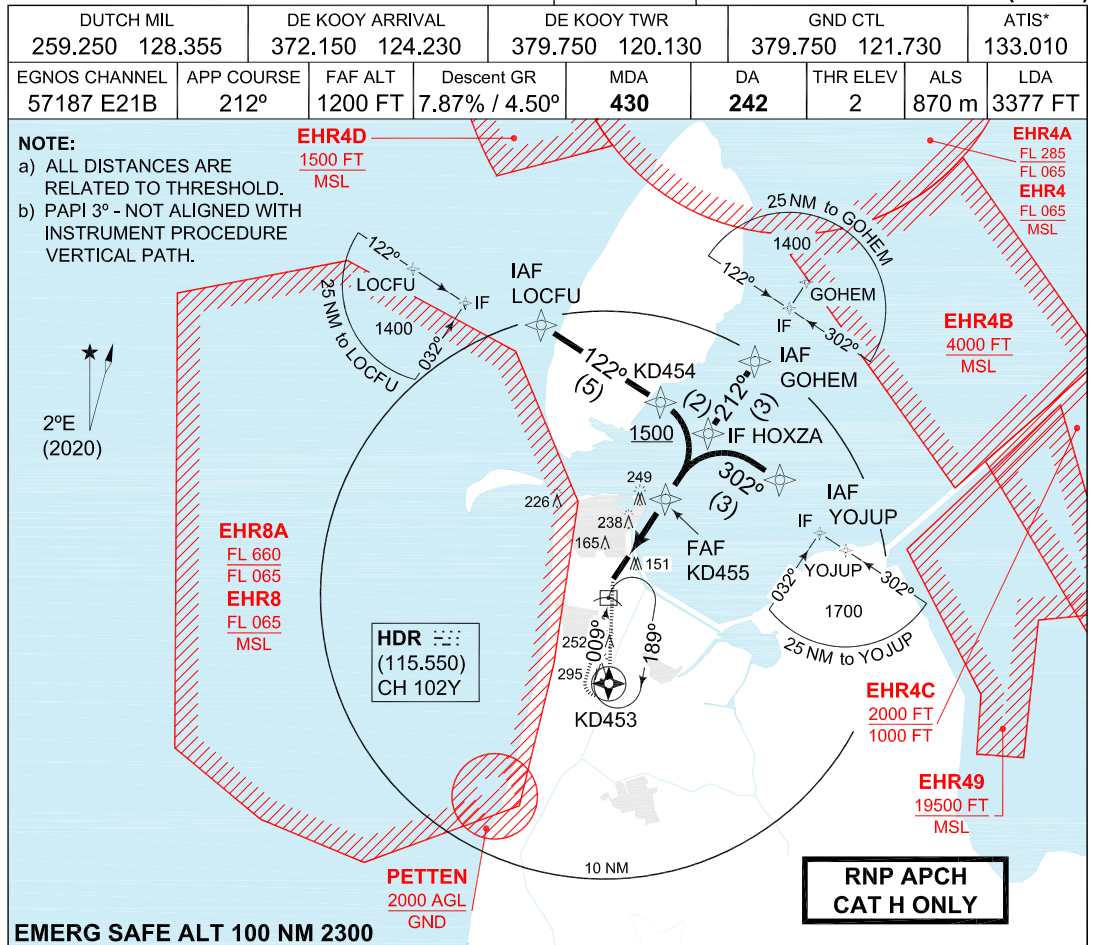


| | | | | | | | | |
|------|-----|-----|------|------|------|------|---------|--------|
| MAPt | 1 | 2 | 3 | 4 | 5 | 5.2 | TA 3000 | GS 3° |
| ALT | 370 | 690 | 1010 | 1330 | 1650 | 1700 | | TCH 50 |



| | | | | | | | |
|----------|-------------|------------------------------------|-------------|-----------------------------------|--------|------------------------------------|-------------|
| CATEGORY | | A | | B | | H | |
| DA(H) | LPV | 238 -800 236 (300-0.8/1.2) | | 248 -800 246 (300-0.8/1.3) | | 222 -800 220 (300-0.8/1.2) | |
| DA(H) | LNAV / VNAV | NOT AUTHORIZED | | | | | |
| MDA(H) | LNAV | 480 -1500 478 (500-1.5/2.2) | | | | 430 -1300 428 (500-1.3/2.0) | |
| IAWP | PUFLA | 53°06.54'N | 004°44.28'E | FAWP | KD452 | 52°59.87'N | 004°51.81'E |
| WP | KD451 | 53°04.03'N | 004°50.47'E | MAWP | THR 21 | 52°55.58'N | 004°47.03'E |
| IAWP | FAFLO | 53°04.84'N | 004°57.38'E | MATWP | KD453 | 52°51.42'N | 004°45.89'E |
| IAWP | JOPFI | 53°00.68'N | 004°58.71'E | HF | HDR | 52°54.41'N | 004°45.94'E |
| IWP | ZOJIK | 53°02.36'N | 004°54.59'E | | | | |

MIPS INSTRUMENT APPROACH CHART **RNP Y RWY 21 DE KOOY (EHKD)**



| | | | | | | | |
|------|----------|-------------|-----------------------------------|-------|--------|------------|-------------|
| MIPS | CATEGORY | | H | | | | |
| | DA(H) | LPV | 222-800 220 (300-0.8/1.2) | | | | |
| | DA(H) | LNAV / VNAV | NOT AUTHORIZED | | | | |
| | MDA(H) | LNAV | 430-1300 428 (500-1.3/2.0) | | | | |
| IAWP | LOCFU | 53°03.75'N | 004°42.16'E | FAWP | KD455 | 52°57.57'N | 004°49.25'E |
| WP | KD454 | 53°00.97'N | 004°49.04'E | MAWP | THR 21 | 52°55.58'N | 004°47.03'E |
| IAWP | GOHEM | 53°02.34'N | 004°54.56'E | MATWP | KD453 | 52°51.42'N | 004°45.89'E |
| IAWP | YOJUP | 52°58.17'N | 004°55.90'E | HF | HDR | 52°54.41'N | 004°45.94'E |
| IWP | HOXZA | 52°59.85'N | 004°51.79'E | | | | |



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PART 3 – AERODROMES (AD)

AD 2.

**AD 2. AERODROMES
LEEWARDEN**

LEEWARDEN

EHLW AD 2.1 Aerodrome location indicator and name

EHLW Leeuwarden

EHLW AD 2.2 Geographical and administrative data

| | | |
|---|---|--|
| 1 | ARP | 53°13'30.98"N 005°45'09.12"E |
| 2 | Direction and distance from city | 325° MAG/2 NM LEEWARDEN |
| 3 | Elevation/Reference temperature | + 3 ft AMSL/20.5° C (AUG) |
| 4 | MAG VAR/Annual change | 2°E (JAN 2020)/12'E |
| 5 | AD operating authority Postal address Visitors' address Telephone Telefax AFTN | RNLAF Vliegbasis Leeuwarden MPC 80A P.O. Box 8762 4820 BB Breda Keegsdijkje 7 8919 AK Leeuwarden +31(0)58 2346911 +31(0)58 2346982 EHLWZTZX |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHLW AD 2.3 Operational hours

| | | |
|----|----------------------------|-------------------------------|
| 1 | AD OPR HR | MON/FRI 0700/1530 (0600/1430) |
| 2 | Customs and immigration | 45 MIN PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | See 2.23 |
| 5 | ATS Reporting Office (ARO) | See 2.23 |
| 6 | MET Briefing Office | HO |
| 7 | ATS | HO |
| 8 | Fuelling | HO |
| 9 | Handling | HO |
| 10 | Security | HO |
| 11 | De-icing | HO |
| 12 | Remarks | PPR 24 HRS See 2.23 |

EHLW AD 2.4 Handling services and facilities

| | | |
|---|--------------------------------|--|
| 1 | Cargo-handling facilities | Yes |
| 2 | Fuel/oil types | F-34, H-515, H-537, O-133, O-142, O-147, O-148, O-149, O-153, O-155, O-156, O-157, O-158, O-190, O-192 |
| 3 | Fuelling facilities/capacity | No limitations |
| 4 | Oxygen | LHOX, LOX |
| 5 | De-icing facilities/type | S-738, S-742 |
| 6 | Starting units | DSA 150, DSA 600, FC 15, FC 30, JAS, EC 3500 |
| 7 | Hangar space for visiting ACFT | No |
| 8 | Repair facilities | F16, F35 |
| 9 | Remarks | Nil |

EHLW AD 2.5 Passenger facilities

| | | |
|---|--------------------|----------------------------|
| 1 | Remain overnight | AVBL O/R |
| 2 | Medical facilities | Medical officer, ambulance |
| 3 | Remarks | Nil |

EHLW AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|------------|
| 1 | AD category for fire fighting | NATO CAT 7 |
| 2 | Remarks | Nil |

EHLW AD 2.7 Seasonal availability - clearing

| | | |
|---|------------------------|---|
| 1 | Seasonal availability | All seasons |
| 2 | Snow removal equipment | Yes |
| 3 | Remarks | Caution advised in winter during ice conditions |

EHLW AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|--|
| 1 | Apron surface and strength | Concrete, Three areas along southern TWY. PCN: South 1 44 R/C/W/T South 2 44 R/C/W/T South 3 30 R/C/W/T One area along northern TWY. PCN: North 39 R/C/W/T |
| 2 | TWY width, surface and strength | Width 39 ft tarmac/concrete, PCN: North 69 F/B/W/T East 75 F/B/W/T South 75 F/B/W/T West 65 F/B/W/T |
| 3 | Remarks | Obstacle, due to installation of the M.A.A.S. (and orange shelter), 56 ft from taxiway centreline at intersection C and 59 ft from taxiway centreline at intersection B Southside. Maximum allowed wingspan is 98 ft (30m) for both intersections. |

EHLW AD 2.9 Surface movement guidance and control system and markings

| | | |
|-----------------------|---------|-----|
| According STANAG 3158 | | |
| 1 | Remarks | Nil |

EHLW AD 2.10 Aerodrome obstacles

| |
|---------------------|
| See Aerodrome Chart |
|---------------------|

EHLW AD 2.11 Meteorological information provided

| | | |
|---|---|--|
| 1 | Associated MET Office | Leeuwarden |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHLW 058-2346056 or mail LW.Meteo@mindef.nl Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHLW AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|--|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | PCN: 23 64 F/B/W/T (Stopway 23 24 F/B/W/T) 05 64 F/B/W/T (Stopway 05 24 F/B/W/T) 27 52 F/B/W/T 09 52 F/B/W/T |
| 4 | Remarks | RWY 09/27 no Touchdown Zone Marking and Aiming Point Marking available. RWY 23/05 no SWY-marking available on both SWYs. RWY-distance markers provide distance available till RWY end (SWY excluded). RWY 27/07 no Touchdown Zone marking Aiming Point marking available. |

EHLW AD 2.13 Declared distances

| |
|------------------------------------|
| See Aerodrome Chart. Values in ft. |
|------------------------------------|

EHLW AD 2.14 Approach and runway lighting

| | | |
|-----------------------|-------------------|---|
| According STANAG 3316 | | |
| 1 | Approach lighting | RWY 23: CAT I. 720 m RWY 05: CAT I. 660 m RWY 27: Nil RWY 09: Nil |
| 2 | RWY lighting | RWY 05/23 VHI/VCL, RWY 09/27 VHI |
| 3 | PAPI | Situated on the left side of RWY 23 and RWY 05 |
| 4 | Remarks | RWY 23/05 RWY-end installed at end of the SWY. Beginning of SWY should be considered as RWY-end, due to low PCN of SWY (24). SWY is marked with red SWY edge lights. |

EHLW AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|-----------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | VB |
| 3 | Emergency RWY lighting | Nil |
| 4 | Emergency TWY edge lighting | Retroreflective markers |
| 5 | Secondary power supply/switch-over | AVBL, switch over time 15 seconds |
| 6 | Remarks | Nil |

EHLW AD 2.16 Helicopter landing area

| | | |
|---|----------|--|
| 1 | Location | 200 m Northeast of TWR. See Aerodrome Chart. |
| 2 | Marking | Daylight marking |
| 3 | Lighting | No |
| 4 | Remarks | Nil |

EHLW AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|---|
| 1 | Designation and lateral limits | Leeuwarden control zone 53°20'10.90"N 005°52'29.80"E; 53°21'38.51"N 005°56'03.02"E; 53°16'41.94"N 006°01'42.19"E; 53°15'14.48"N 005°58'09.16"E; along clockwise arc (radius 8 NM, centre 53°13'30.98"N 005°45'09.12"E) to 53°06'50.46"N 005°37'51.08"E; 53°05'22.29"N 005°34'19.67"E; 53°10'17.48"N 005°28'38.65"E; 53°11'45.80"N 005°32'10.23"E; along clockwise arc (radius 8 NM, centre 53°13'30.98"N 005°45'09.12"E) to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Leeuwarden TWR. English |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHLW AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|--|-------|---|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Leeuwarden Tower | 120.705 ^{*)} 122.100 344.850 ^{*)} 257.800 | HO | * ^{*)} Primary FREQ Radar equipped Through APP |
| GND CTL | Leeuwarden Ground | 362.525 | HO | |
| APP | RAPCON North | 132.030 ^{*)} 284.475 ^{*)} | HO | |
| RADAR | Leeuwarden Arrival | 132.030 339.700 | HO | |

EHLW AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|---------------------|-----|------------------|-------|---------------------------------|--------------------|---------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| TACAN | LWD | CH 94X | H24 | 53°13'25.08"N 005°45'06.64"E | 150 NM/60000 ft | FREQ pro- tected |
| ILS 05 LOCALIZER | LWZ | 111.750 | HO | 53°13'59.14"N 005°46'17.18"E | | |
| GLIDEPATH | | 333.350 | HO | 53°13'17.66"N 005°44'27.50"E | | |
| DME 05 | | CH 54Y | HO | 53°13'17.66"N 005°44'27.50"E | | |
| ILS 23 LOCALIZER | LWO | 111.750 | HO | 53°13'04.37"N 005°44'04.89"E | | |
| GLIDEPATH | | 333.350 | HO | 53°13'50.75"N 005°45'46.46"E | | |
| DME 23 | | CH 54Y | HO | 53°13'50.75"N 005°45'46.46"E | | |
| ILS 09 LOCALIZER | WOL | 109.750 | HO | 53°13'42.54"N 005°46'20.19"E | | |
| GLIDEPATH | | 333.050 | HO | 53°13'39.59"N 005°44'43.45"E | | |
| DME 09 | | CH 34Y | HO | 53°13'39.59"N 005°44'43.45"E | | |
| ILS 27 LOCALIZER | LOB | 109.750 | HO | 53°13'42.90"N 005°44'16.77"E | | |
| GLIDEPATH | | 333.050 | HO | 53°13'39.38"N 005°45'54.62"E | | |
| DME 27 | | CH 34Y | HO | 53°13'39.38"N 005°45'54.62"E | | |

EHLW AD 2.20 Local traffic regulations

Glider- and Light ACFT flying

Gliderflying outside OPR HR SR/SS.

EHLW AD 2.21 Noise abatement procedures

Special rules for visiting jet ACFT:

a. APPROACHING:

- normal circuit procedures, except R/H circuits for RWY 23 and 27;
- jet ACFT full-stop landings only;
- practice diversions may only be executed by ACFT on IF-training missions.

b. DEPARTING:

- after take off climb ASAP to at least 1000 ft AGL;
- (if possible) use of afterburner to be terminated before reaching Marssum (end of RWY 23) or Jelsum (end of RWY 05);
- low level departures: after take off straight ahead to at least 1500 ft AGL before turning on course;
- high level departures: only SIDs are allowed;
- afterburner climbouts are not permitted.

EHLW AD 2.22 Flight procedures**IFR procedures**

The IAP and SID procedures are established in accordance with STANAG 3759 AND AATCP-1.

RNP Y approach RWY 05

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA(° TCH (ft) | NAV spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | DUTCU | - | - | - | - | - | + 1500 | - | - | - |
| 002 | TF | BOCOC | - | 143 (145) | - | 3 | - | + 1500 | - | - | RNAV1 |
| 003 | IF | TOHAR | - | - | - | - | - | + 1500 | - | - | - |
| 004 | TF | BOCOC | - | 053 (055) | - | 3 | - | + 1500 | - | - | RNAV1 |
| 005 | IF | VEFKI | - | - | - | - | - | + 1500 | - | - | - |
| 006 | TF | BOCOC | - | 323 (325) | - | 3 | - | + 1500 | - | - | RNAV1 |
| 007 | IF | BOCOC | - | - | - | - | - | + 1500 | - | - | - |
| 008 | TF | LW444 | - | 053 (055) | - | 3 | - | + 1500 | - | - | RNP APCH |
| 009 | TF | THR05 | Y | 053 (055) | - | 3.7 | - | - | - | -3.72/50 | RNP APCH |
| 010 | CA | - | - | 053 (055) | - | - | - | +1200 | - | - | RNP APCH |
| 011 | DF | DUTCU | - | - | - | - | L | + 1500 | - | - | RNP APCH |

FAS data block – RNP Y RWY 05

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHLW |
| Runway | 05 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Y |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E05A |
| LTP/FTP Latitude | 531308.9900N |
| LTP/FTP Longitude | 0054416.0400E |
| LTP/FTP Ellipsoidal Height (metres) | 42.6 |
| FPAP Latitude | 531358.5755N |
| Delta FPAP Latitude (seconds) | 49.5855 |
| FPAP Longitude | 0054615.8275E |
| Delta FPAP Longitude (seconds) | 119.7875 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.72 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 17 0C 08 05 05 C8 00 01 35 30 05 FC D4 D6 16 50 5F 76 02 AA 15 63 83 01 D7 A7 03 F4 01 74 01 64 00 C8 AF 28 A6 73 8E |
| Calculated CRC Value | 28A6738E |
| Supplied CRC Value | 28A6738E |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|-----|
| ICAO Code | LW |
| LTP/FTP Orthometric Height (metres) | 1.2 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

RNP Y approach RWY 23

| Serial Number | Path Descriptor | WPT Ident | Fly Over | Course Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA(° TCH (ft) | NAV spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | IPCOL | - | - | - | - | - | + 1500 | - | - | - |
| 002 | TF | LIWOB | - | 143 (145) | - | 3 | - | + 1500 | - | - | RNAV1 |
| 003 | IF | XOZEP | - | - | - | - | - | + 1500 | - | - | - |
| 004 | TF | LIWOB | - | 233 (235) | - | 3 | - | + 1500 | - | - | RNAV1 |
| 005 | IF | RACLE | - | - | - | - | - | + 1500 | - | - | - |
| 006 | TF | LIWOB | - | 323 (325) | - | 3 | - | + 1500 | - | - | RNAV1 |
| 007 | IF | LIWOB | - | - | - | - | - | + 1500 | - | - | - |
| 008 | TF | LW434 | - | 233 (235) | - | 3 | - | + 1500 | - | - | RNP APCH |
| 009 | TF | THR23 | Y | 233 (235) | - | 3.7 | - | - | - | -3.72/50 | RNP APCH |
| 010 | CA | - | - | 233 (235) | - | - | - | + 1200 | - | - | RNP APCH |
| 011 | DF | IPCOL | - | - | - | - | R | + 1500 | - | - | RNP APCH |

FAS data block – RNP Y RWY 23

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHLW |
| Runway | 23 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | Y |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E23A |
| LTP/FTP Latitude | 531352.9500N |
| LTP/FTP Longitude | 0054602.2300E |
| LTP/FTP Ellipsoidal Height (metres) | 42.5 |
| FPAP Latitude | 531304.5415N |
| Delta FPAP Latitude (seconds) | -48.4085 |
| FPAP Longitude | 0054405.3015E |
| Delta FPAP Longitude (seconds) | -116.9285 |
| Threshold Crossing Height | 50.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.72 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output data | |
|----------------------|--|
| Data Block | 10 17 0C 08 05 17 C8 00 01 33 32 05 6C 2C D8 16 EC 9C 79 02 A9 15 CF 85 FE 7F 6E FC F4 01 74 01 64 00 C8 AF 56 6E 17 51 |
| Calculated CRC Value | 566E1751 |
| Supplied CRC Value | 566E1751 |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|-----|
| ICAO Code | EH |
| LTP/FTP Orthometric Height (metres) | 1.2 |

NOTE: EUROCONTROL FAS DB tool Version 3.2.0

VFR procedures

CONVENTIONAL ACFT:

Join R/H - or L/H baseleg for RWY in use as directed by ATC.

LIGHT ACFT/HEL:

Join circuit from the south at 600 ft. This altitude is to be reached at a distance of at least 5 NM from the AD. Departure from the AD to be carried out in a southern direction at 600 ft. In both the landing pattern and after take off RWYs 05/23 and 09/27 are not to be crossed.

EHLW AD 2.23 Additional information

AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.

Tel: +31(0)20 4062840

Tel: +31(0)20 4062841

E-mail: aocs.fdns@mindef.nl

AFTN: EHMCZPZX

avbl H24

PPR 24 HRS: for Prior Permission Request contact:

Leeuwarden AB

Operational Centre

Tel: +31(0)58 2346004/6006

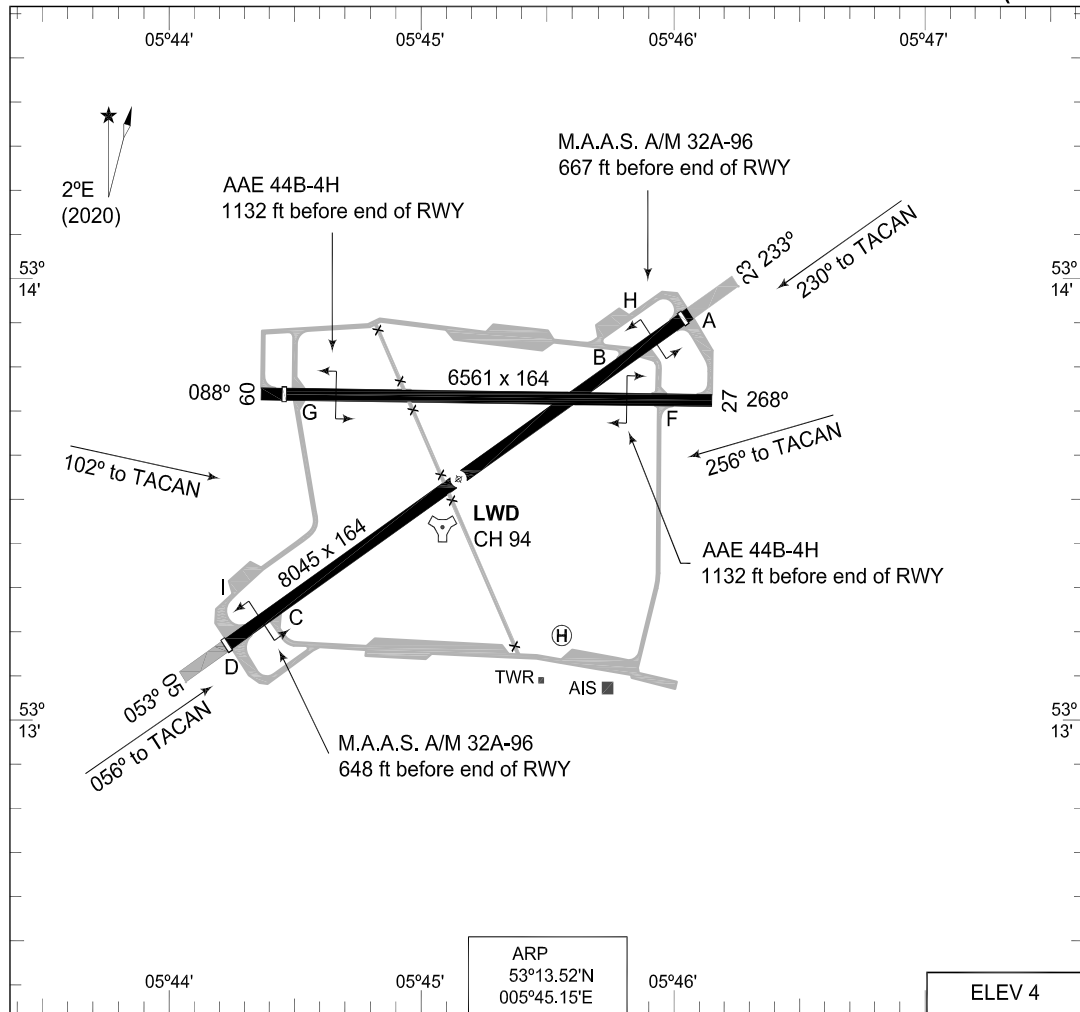
E-mail: LW.IPCC.Daily.Ops@mindef.nl

EHLW AD 2.24 Charts related to an aerodrome

| | |
|---|--------------|
| Aerodrome Chart | EHLW AD 2-12 |
| Local map | EHLW AD 2-13 |
| MVA chart | EHLW AD 2-14 |
| Aerodrome obstacle chart RWY 05-23 | EHLW AD 2-15 |
| Aerodrome obstacle chart RWY 09-27 | EHLW AD 2-16 |
| Instrument departure chart LW1 | EHLW AD 2-17 |
| Instrument departure chart LW3 | EHLW AD 2-18 |
| Instrument departure chart LW5 | EHLW AD 2-19 |
| Instrument departure chart LW7 | EHLW AD 2-20 |
| Instrument approach chart ILS or LOC RWY 05 | EHLW AD 2-21 |
| Instrument approach chart HI-TACAN RWY 05 | EHLW AD 2-22 |
| Instrument approach chart TACAN RWY 05 | EHLW AD 2-23 |
| Instrument approach chart COPTER ILS or LOC 053 | EHLW AD 2-24 |
| Instrument approach chart COPTER TACAN 056 | EHLW AD 2-25 |
| Instrument approach chart RNP Z RWY 05 | EHLW AD 2-26 |
| Instrument approach chart RNP Y RWY 05 | EHLW AD 2-27 |
| Instrument approach chart ILS or LOC RWY 09 | EHLW AD 2-28 |
| Instrument approach chart HI-TACAN RWY 09 | EHLW AD 2-29 |
| Instrument approach chart TACAN RWY 09 | EHLW AD 2-30 |
| Instrument approach chart ILS or LOC RWY 23 | EHLW AD 2-31 |
| Instrument approach chart HI-TACAN RWY 23 | EHLW AD 2-32 |
| Instrument approach chart TACAN RWY 23 | EHLW AD 2-33 |
| Instrument approach chart COPTER ILS or LOC 233 | EHLW AD 2-34 |
| Instrument approach chart COPTER TACAN 230 | EHLW AD 2-35 |
| Instrument approach chart RNP Z RWY 23 | EHLW AD 2-36 |
| Instrument approach chart RNP Y RWY 23 | EHLW AD 2-37 |
| Instrument approach chart ILS or LOC RWY 27 | EHLW AD 2-38 |
| Instrument approach chart HI-TACAN RWY 27 | EHLW AD 2-39 |
| Instrument approach chart TACAN RWY 27 | EHLW AD 2-40 |

**MIPS
AERODROME CHART**

LEEUWARDEN (EHLW)



| RWY | PCN | TORA | ASDA | TODA | LDA | PAPI | THR ELEV | THR PSN |
|-----|------------|------|------|------|------|------|----------|------------------------|
| 23 | 64 F/B/W/T | 8045 | 8045 | 8832 | 7863 | 3.0° | 4 | 53°13.88'N 005°46.04'E |
| 05 | 64 F/B/W/T | 8045 | 8045 | 8865 | 8036 | 3.0° | 4 | 53°13.15'N 005°44.27'E |
| 27 | 52 F/B/W/T | 6561 | 6561 | 6561 | 6561 | | 3 | 53°13.71'N 005°46.18'E |
| 09 | 52 F/B/W/T | 6561 | 6561 | 6561 | 6368 | | 3 | 53°13.71'N 005°44.44'E |

| | | | | |
|--------------------|---------|---------|------------------|---------|
| LEEUWARDEN TWR | 344.850 | 120.705 | (Ground Control) | 362.525 |
| LEEUWARDEN ARRIVAL | 339.700 | | | |
| RAPCON NORTH | 284.475 | 132.030 | | |

| | PROC. CRITERIA | RWY | GS | TCH | OTCH | RPI | CAT | MINIMA CRITERIA | MINIMA |
|-----|----------------|-----|----|-----|------|-----|-----|-----------------|----------------------------|
| SRA | MIPS | 23 | | | | | AB | MIPS | 450-1100 446 (500-1.1/1.9) |
| | | | | | | | C | | 450-1200 446 (500-1.2/2.0) |
| | | | | | | | D | | 450-1600 446 (500-1.6/2.4) |
| | | | | | | | E | | 450-2000 446 (500-2.0/2.8) |
| | MIPS | 05 | | | | | AB | MIPS | 470-1100 446 (500-1.1/1.9) |
| | | | | | | | C | | 470-1200 446 (500-1.2/2.0) |
| | | | | | | | D | | 470-1600 446 (500-1.6/2.4) |
| | | | | | | | E | | 470-2000 446 (500-2.0/2.8) |
| | MIPS | 27 | | | | | AB | MIPS | 420-1900 417 (500-1.9/1.9) |
| | | | | | | | CD | | 420-2000 417 (500-2.0/2.0) |
| | | | | | | | E | | 420-2400 417 (500-2.4/2.4) |
| | | | | | | | | | |
| | MIPS | 09 | | | | | AB | MIPS | 460-1900 458 (500-1.9/1.9) |
| | | | | | | | C | | 460-2000 458 (500-2.0/2.0) |
| | | | | | | | DE | | 460-2400 458 (500-2.4/2.4) |
| | | | | | | | | | |

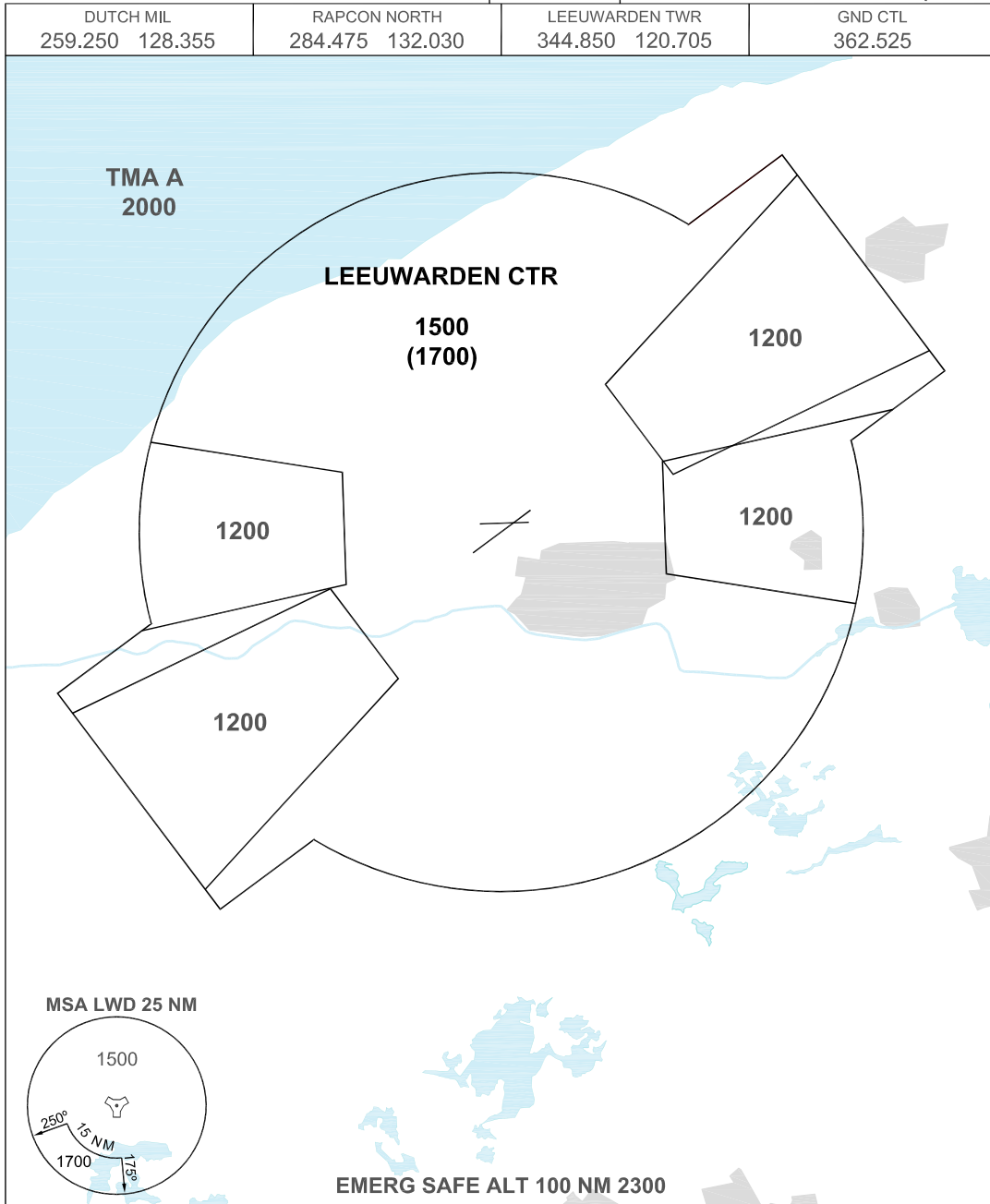
CHANGES: MAGVAR, CABLE

RNLAf 03 DEC 2020

LOCAL MAP



MIPS **MINIMUM VECTORING ALTITUDE** AD ELEV 4 **MVA CHART**
LEEUWARDEN (EHLW)

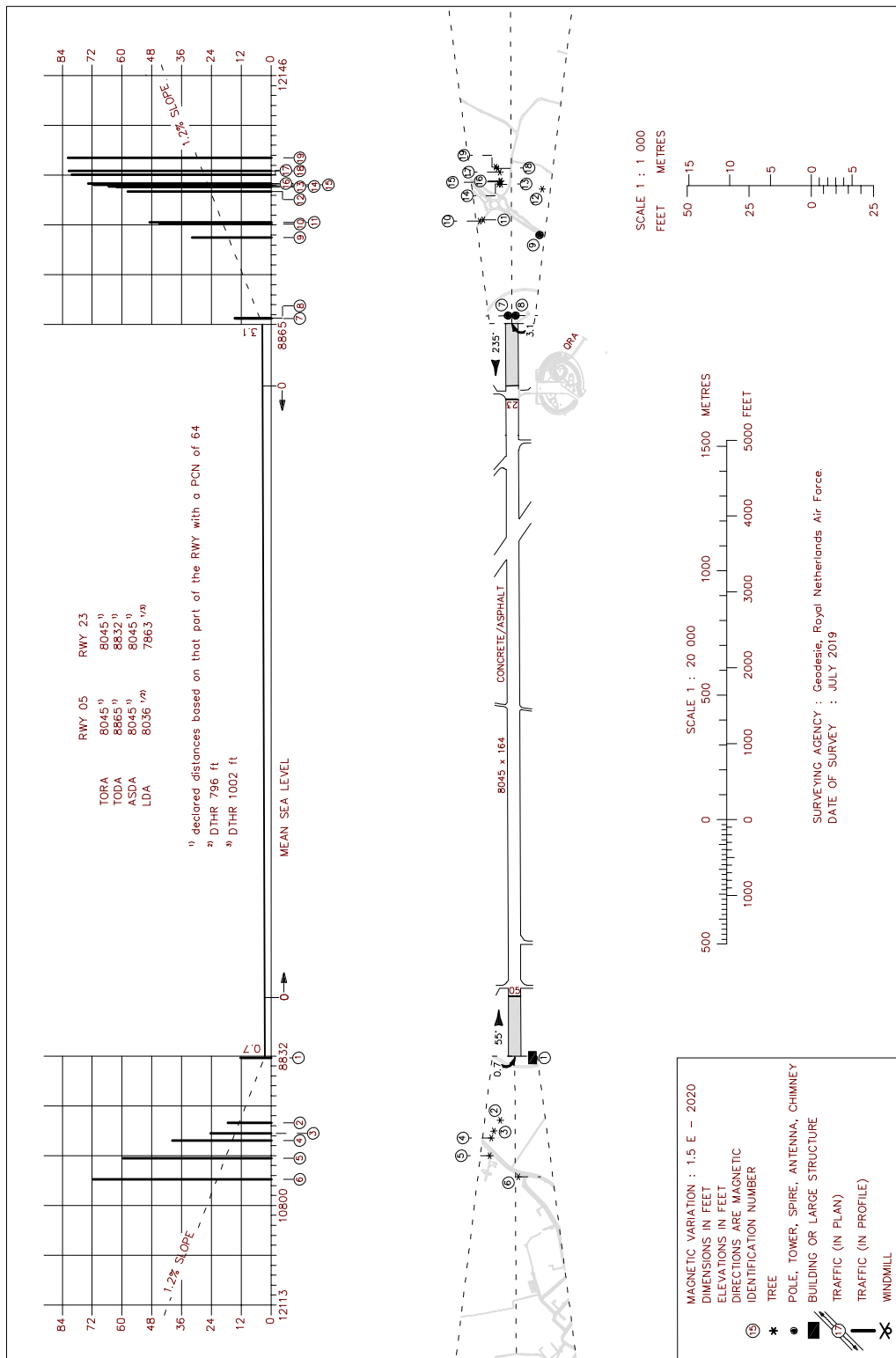


- THE ALTITUDE BETWEEN BRACKETS IS TO BE USED FOR THE CORRESPONDING SECTOR WHEN AIR TEMPERATURE AT AIRBASE ALTITUDE IS LOWER THAN -16°.
- ALTITUDES ONLY AVAILABLE IF THE RADAR COVERAGE PERMITS.

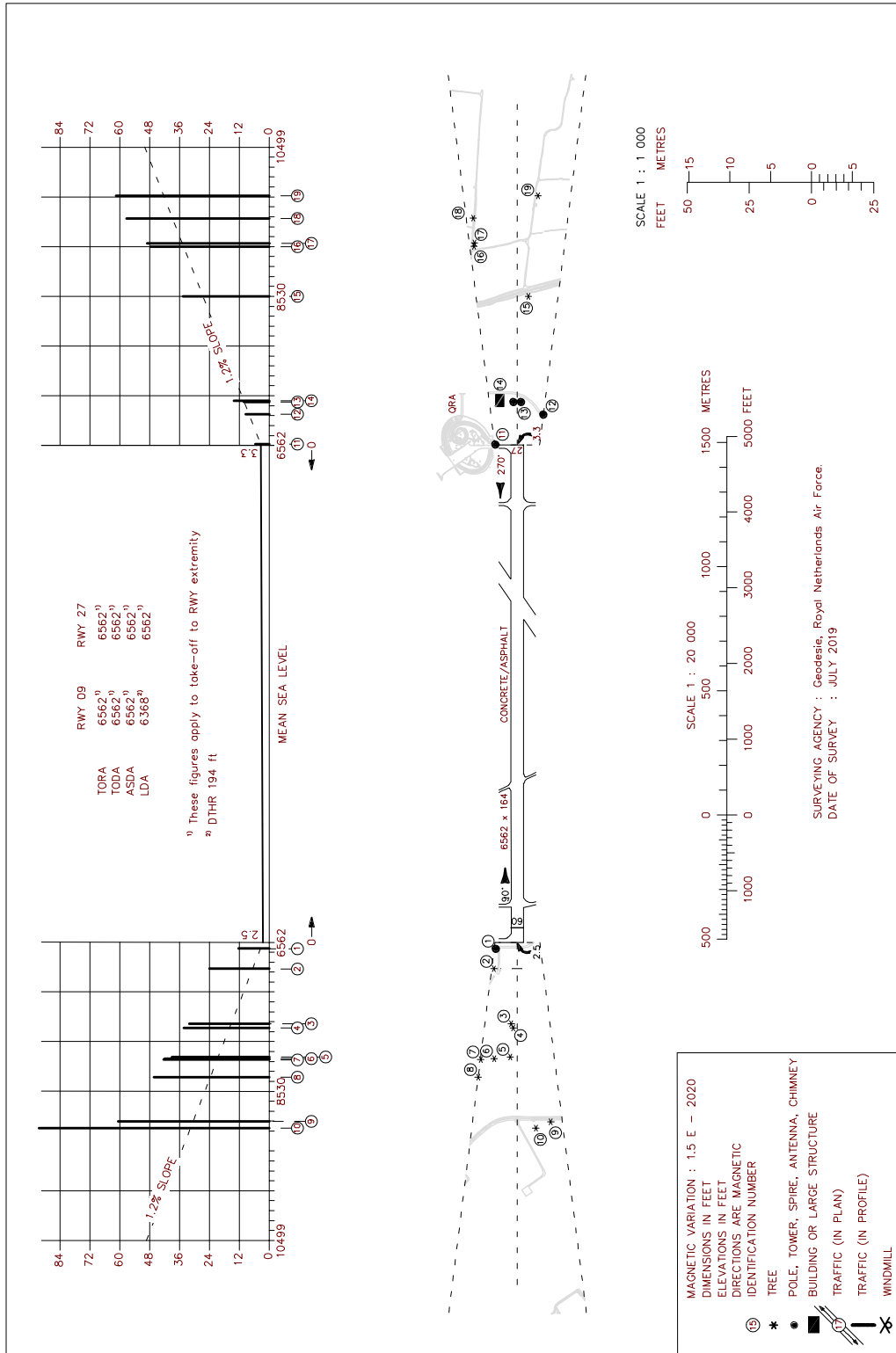
CHANGES: MSA

RNLAF 24 FEB 2022

LEEWARDEN RWY 05 - 23
AERODROME OBSTACLE CHART TYPE A

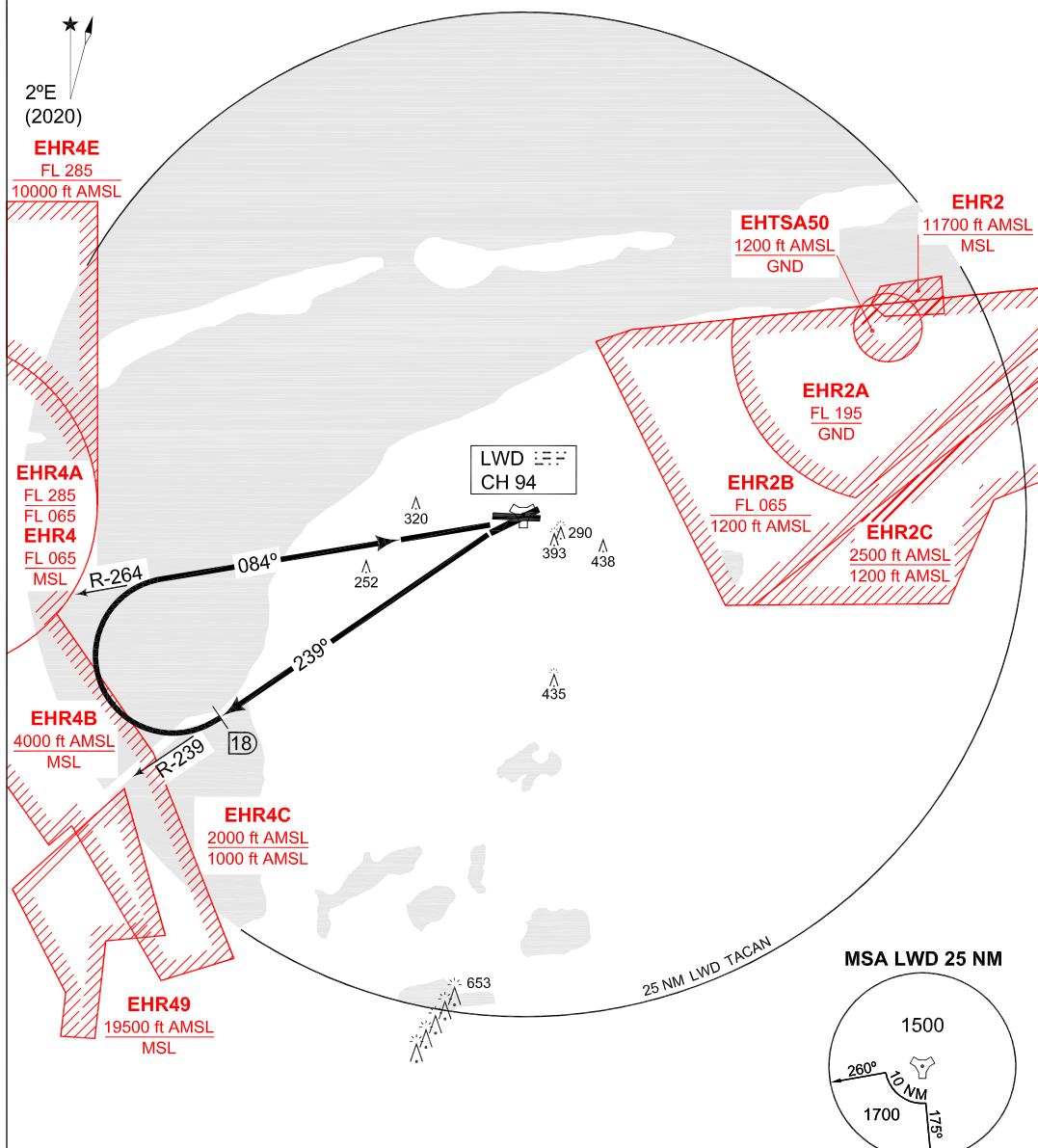


LEEWARDEN RWY 09 - 27
AERODROME OBSTACLE CHART TYPE A



TERPS INSTRUMENT DEPARTURE CHART **LW1**
LEEUWARDEN (EHLW)

| | | | | | | | | | | | | | |
|--------------------|-----------------------------------|-----------|--------------------|------------|------------|---------------------------------|-------------|-------------|---------------|------------------------------|--|--|--|
| GND CTL 362.525 | LEEUWARDEN TWR 344.850 120.705 | AD ELEV 4 | | | | RAPCON NORTH 284.475 132.030 | | | | DUTCH MIL 259.250 128.355 | | | |
| | | RWY 23 | Knots V/V (fpm) | 120 600 | 180 900 | 240 1200 | 300 1500 | 360 1800 | to 1000 ft | | | | |



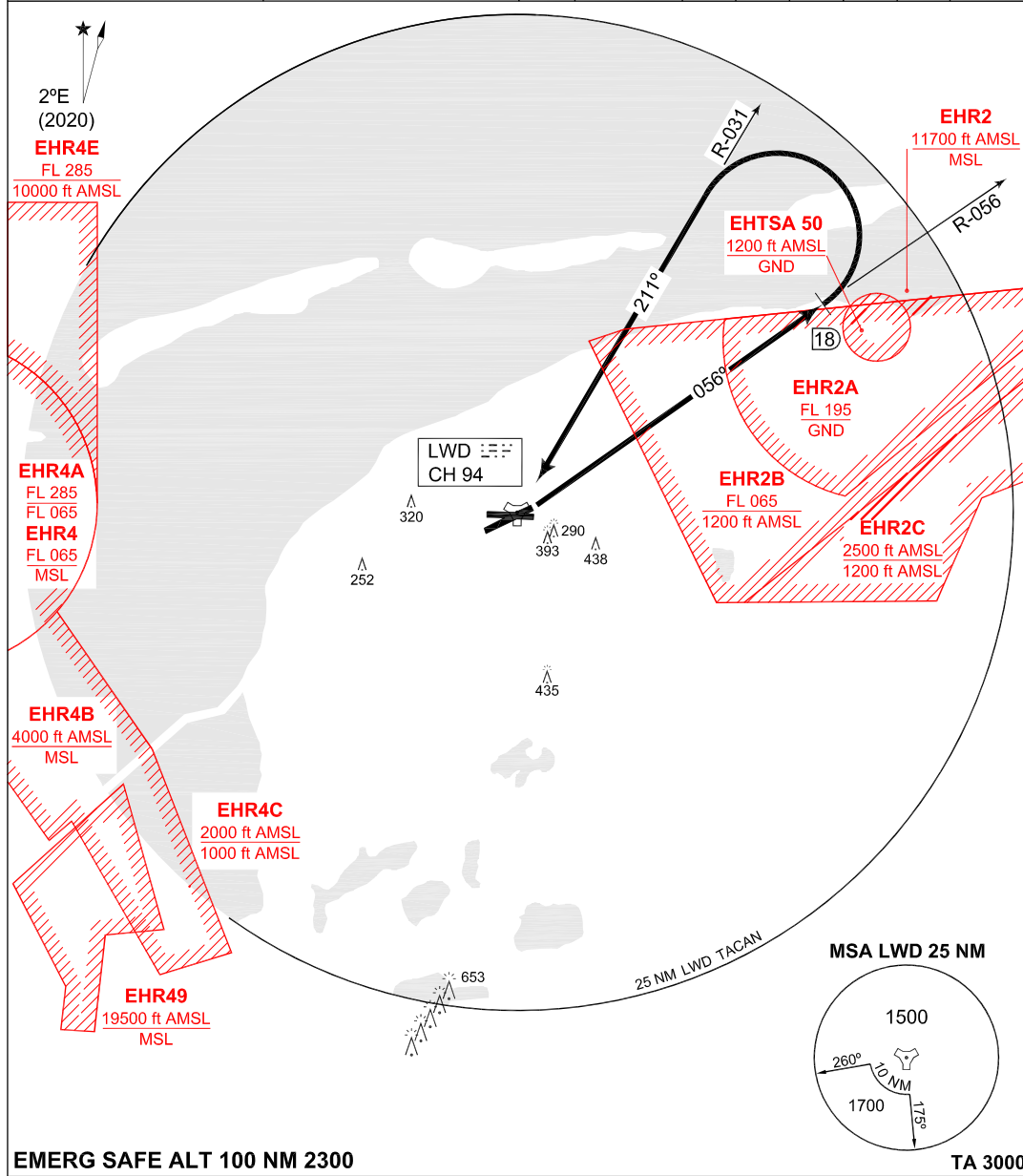
| | | |
|-----------------------------------|---|----------------|
| EMERG SAFE ALT 100 NM 2300 | | TA 3000 |
| LEEUWARDEN 1 (RWY 23) | <ul style="list-style-type: none"> - Climb on R-239 outbound Leeuwarden TACAN. - At 18 DME turn right to intercept R-264 inbound and proceed to Leeuwarden TACAN. | |
| NOTE: | Procedure may be changed by ATC when BREEZANDDIJK firing range is active. | |

CHANGES: MSA

RNLAf 23 MAR 2023

TERPS INSTRUMENT DEPARTURE CHART **LW3 LEEUWARDEN (EHLW)**

| | | | | | | | | | | | |
|--------------------|--|-----------------------------------|--|---------------------------------|-----------|-----|-----|------------------------------|------|------|---------|
| GND CTL 362.525 | | LEEUWARDEN TWR 344.850 120.705 | | RAPCON NORTH 284.475 132.030 | | | | DUTCH MIL 259.250 128.355 | | | |
| | | | | RWY | Knots | 120 | 180 | 240 | 300 | 360 | to |
| | | | | 05 | V/V (fpm) | 540 | 810 | 1080 | 1350 | 1620 | 1000 ft |



CHANGES: MSA

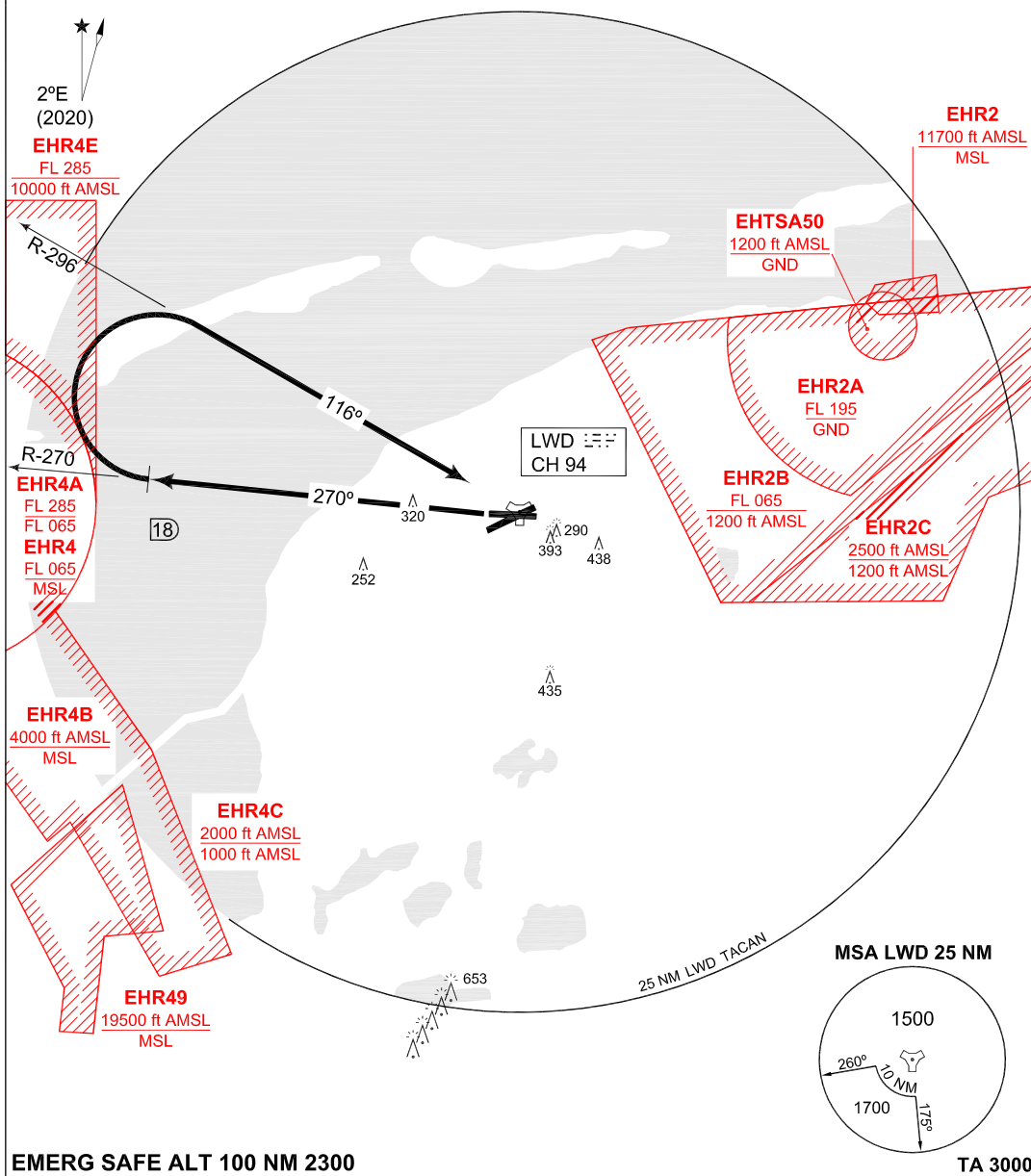
LEEUWARDEN 3 (RWY 05)

- Climb on R-056 outbound Leeuwarden TACAN.
- At 18 DME turn left to intercept R-031 inbound and proceed to Leeuwarden TACAN.

RNLAF 23 MAR 2023

TERPS INSTRUMENT DEPARTURE CHART **LW5 LEEUWARDEN (EHLW)**

| | | | | | | | | | |
|--------------------|-----------------------------------|---------------------------------|--------------------|------------|------------|------------------------------|-------------|-------------|---------------|
| GND CTL 362.525 | LEEUWARDEN TWR 344.850 120.705 | RAPCON NORTH 284.475 132.030 | | | | DUTCH MIL 259.250 128.355 | | | |
| | | RWY 27 | Knots V/V (fpm) | 120 550 | 180 825 | 240 1100 | 300 1375 | 360 1700 | to 1000 ft |



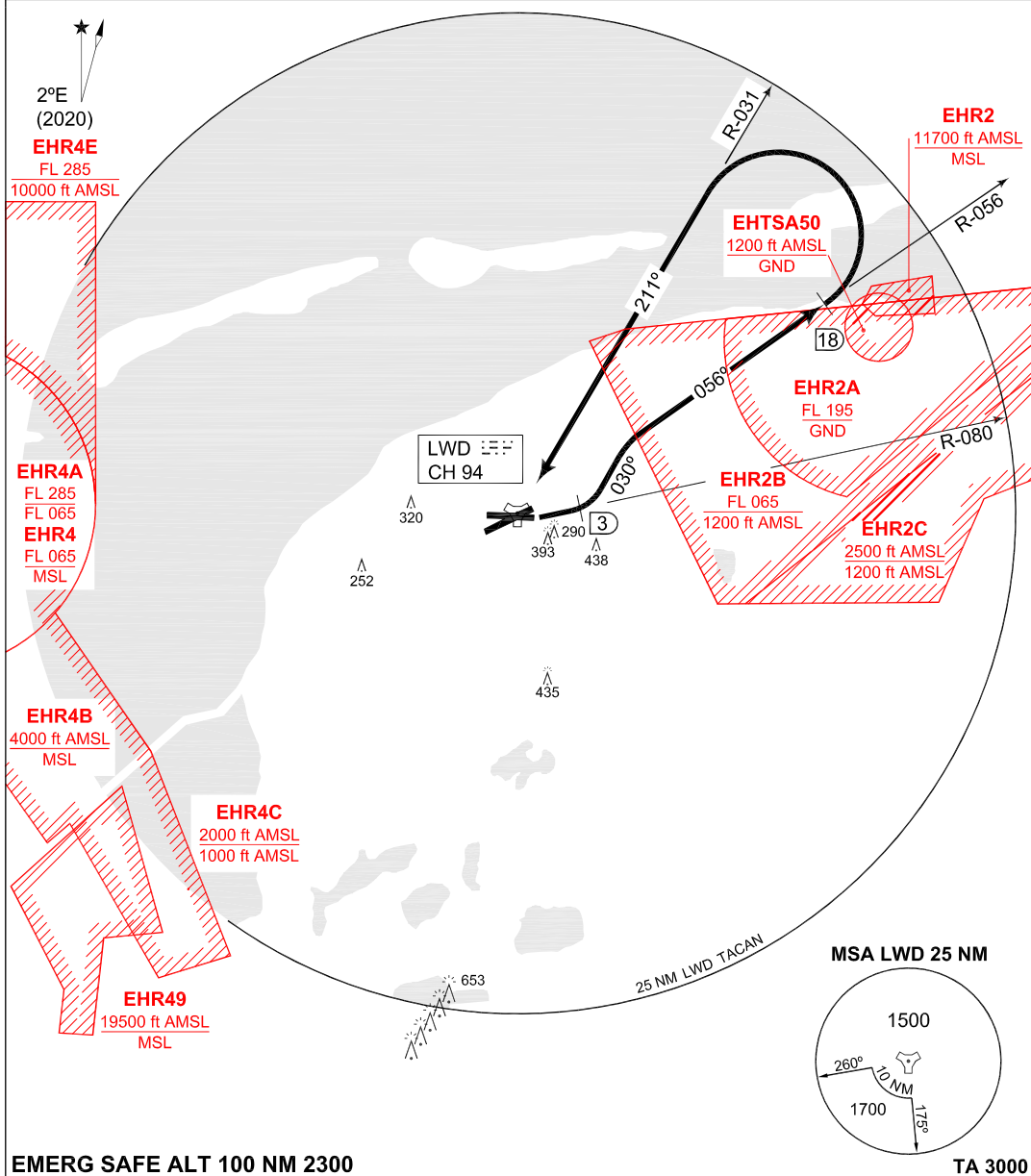
EMERG SAFE ALT 100 NM 2300 **TA 3000**

| | |
|---|---|
| <p>CHANGES: MSA</p> <p>LEEUWARDEN 5 (RWY 27)</p> | <ul style="list-style-type: none"> - After take-off RWY 27 intercept R-270 outbound Leeuwarden TACAN. - At 18 DME turn right to intercept R-296 inbound Leeuwarden TACAN. |
|---|---|

RNLAF 23 MAR 2023

TERPS INSTRUMENT DEPARTURE CHART **LW7 LEEUWARDEN (EHLW)**

| | | | | | | | | | | | | | |
|--------------------|-----------------------------------|-----------|-----------|-----|------|---------------------------------|------|------|---------|------------------------------|--|--|--|
| GND CTL 362.525 | LEEUWARDEN TWR 344.850 120.705 | AD ELEV 4 | | | | RAPCON NORTH 284.475 132.030 | | | | DUTCH MIL 259.250 128.355 | | | |
| | | RWY | Knots | 120 | 180 | 240 | 300 | 360 | to | | | | |
| | | 09 | V/V (fpm) | 750 | 1125 | 1500 | 1875 | 2250 | 1000 ft | | | | |



EMERG SAFE ALT 100 NM 2300

TA 3000

CHANGES: MSA

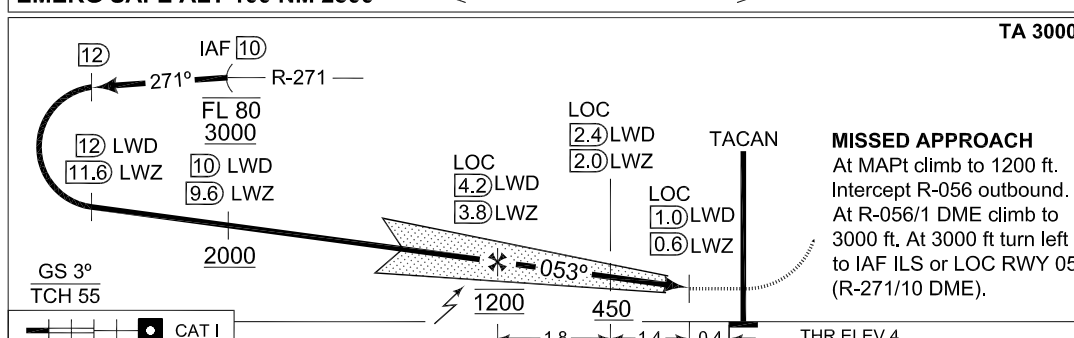
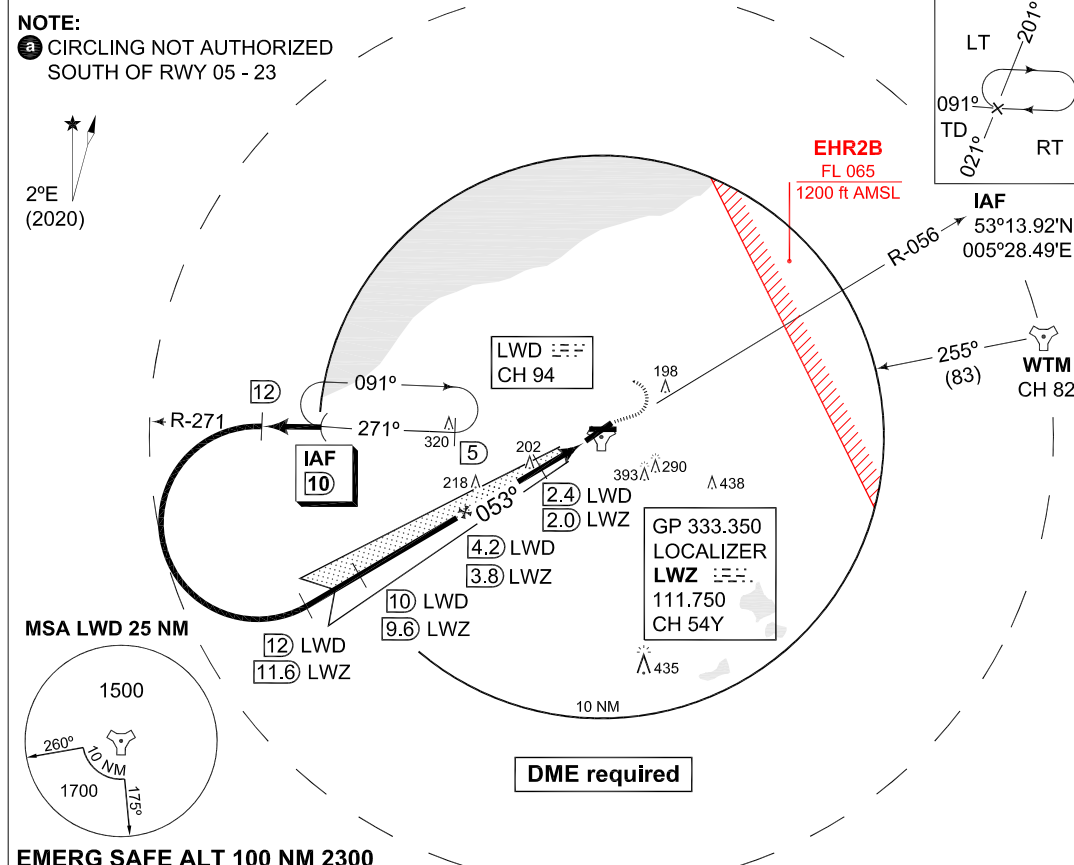
LEEUWARDEN 7 (RWY 09)

- After take-off intercept R-080 outbound Leeuwarden TACAN.
- At 3 DME turn left heading 030° to intercept R-056 Leeuwarden TACAN.
- At 18 DME turn left to intercept R-031 inbound Leeuwarden TACAN.

RNLAf 23 MAR 2023

MIPS INSTRUMENT APPROACH CHART **ILS or LOC RWY 05 LEEUWARDEN (EHLW)**

| | | | | | | | | |
|---|--|---------------------------------|---------------------------|-----------------------------------|----------------------|--------------------|--------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEUWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | | |
| LOCALIZER / DME LWZ 111.750 / CH 54Y | | APP COURSE 053° | GS INTCEPT ALT 1200 FT | GS 3° | DA SEE CAT | THR ELEV 4 | ALS 660 m | LDA 8036 FT |



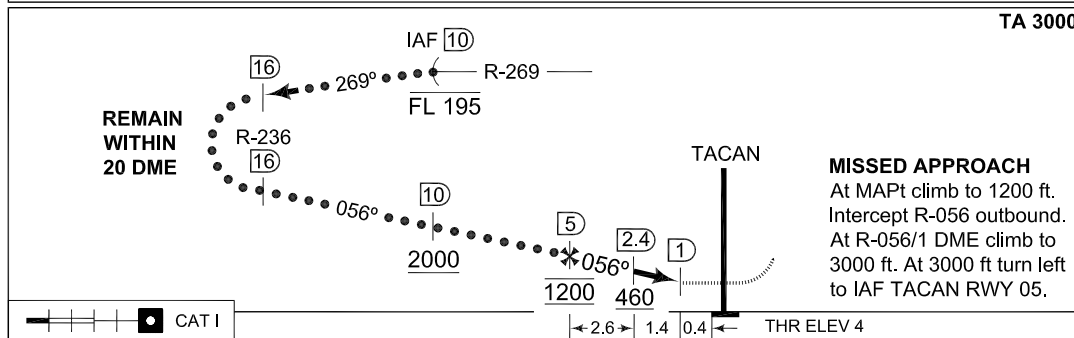
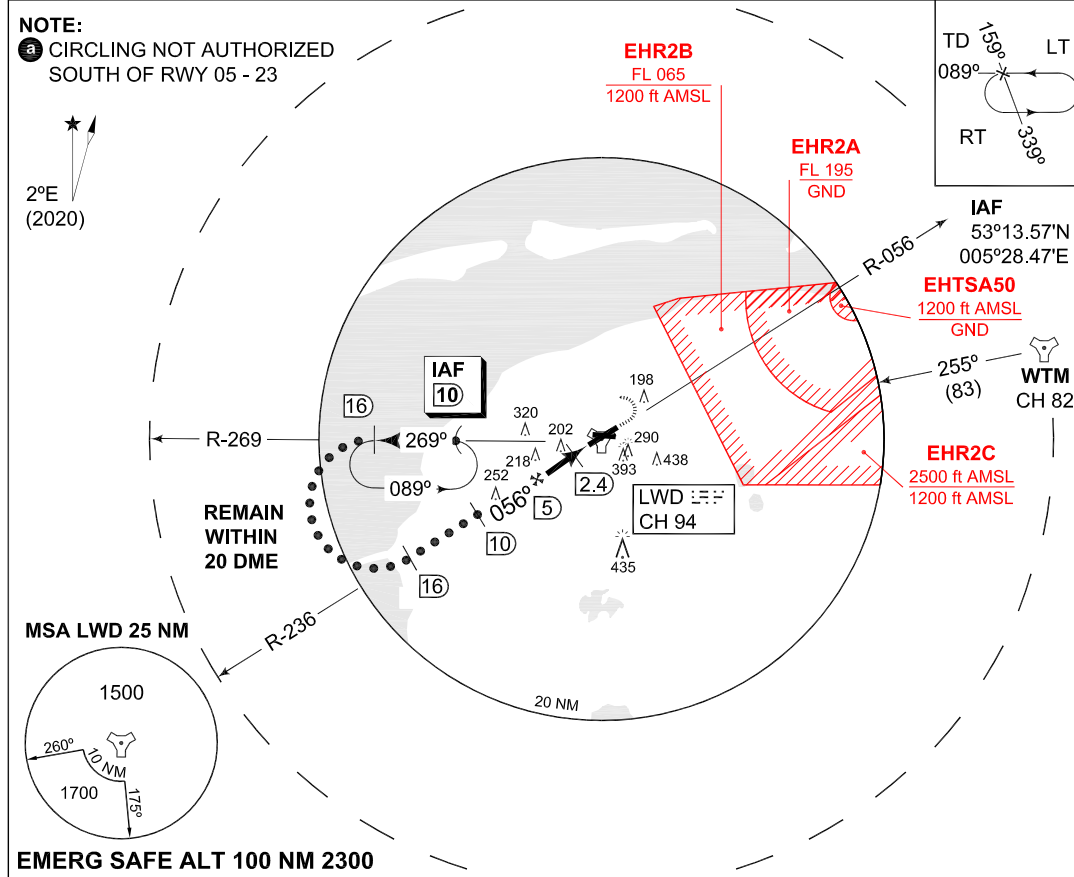
| CATEGORY | A | B | C | D | E |
|--|------------------------------|------------------------------|-------------------------------|------------------------------|------------------------------|
| MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | | |
| S-ILS 05 | 204-800 200 (200-0.8/1.6) | 208-800 204 (300-0.8/1.6) | 218-800 214 (300-0.8/1.6) | 227-800 223 (300-0.8/1.6) | 246-800 242 (300-0.8/1.6) |
| S-LOC 05 | 350-800 346 (400-0.8/1.6) | | 350-1200 346 (400-1.2/1.6) | 350-1200 346 (400-1.2/2.0) | |
| CIRCLING ⓐ | 500-1900 496 (500-1.9) | 510-2800 506 (600-2.8) | 610-3700 606 (700-3.7) | 720-4600 716 (800-4.6) | 820-6500 816 (900-6.5) |

CHANGES: MSA
MIPS

RNLAF 23 MAR 2023

MIPS INSTRUMENT APPROACH CHART **HI-TACAN RWY 05 LEEUWARDEN (EHLW)**

| | | | | | | | |
|------------------------------|--------------------|---------------------------------|------------|-----------------------------------|---------------|--------------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEUWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | |
| TACAN LWD CH 94 | APP COURSE 056° | FAF ALT 1200 FT | Descent GR | MDA 380 | THR ELEV 4 | ALS 660 m | LDA 8036 FT |



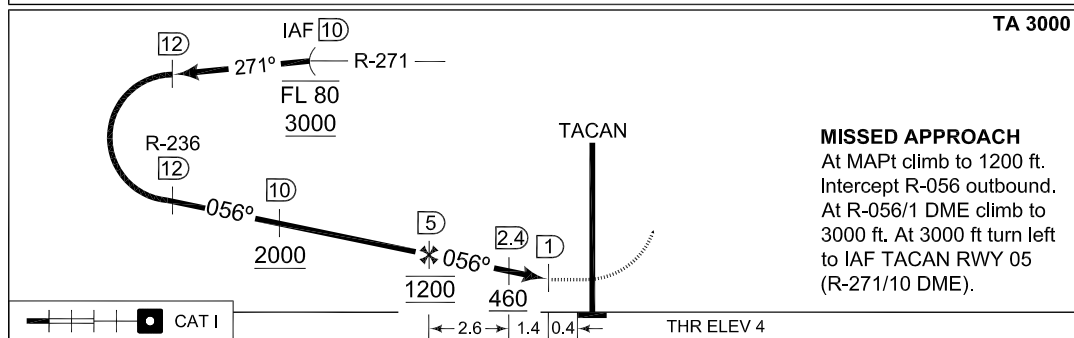
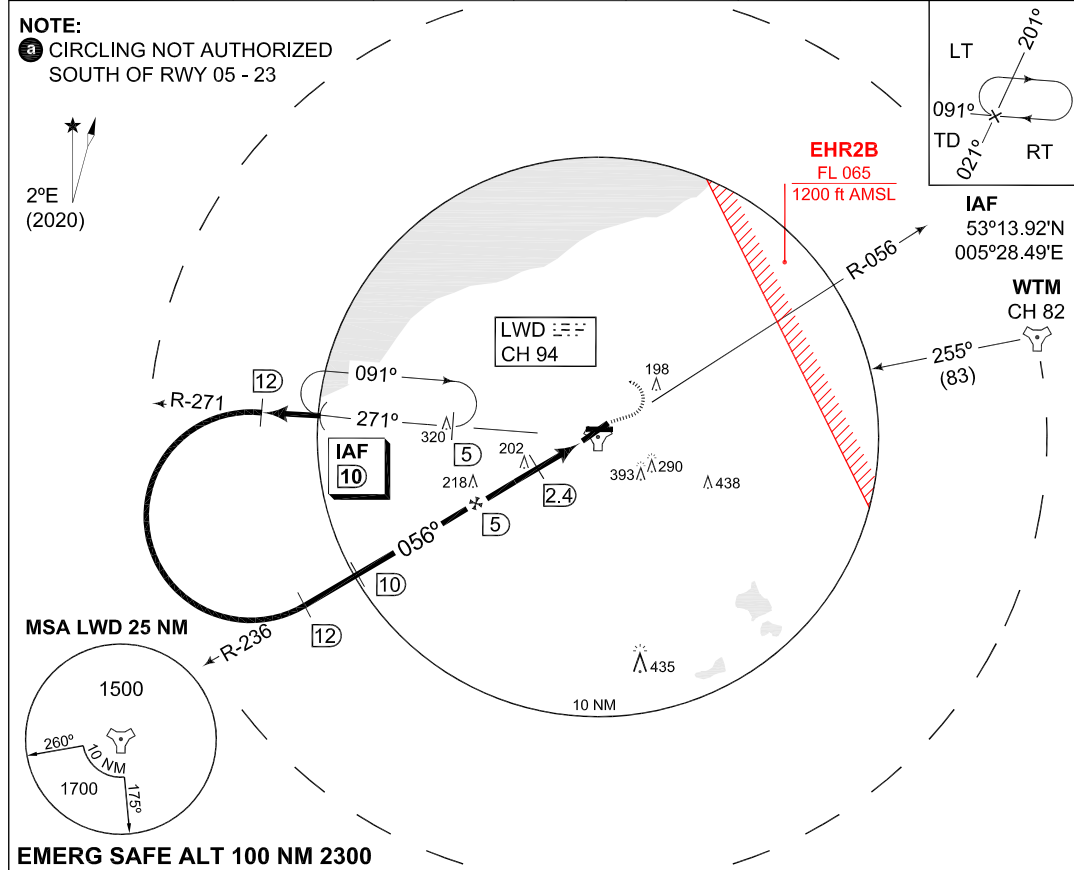
| CATEGORY | MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | |
|-------------------|--|----------------------------|------------------------|
| | C | D | E |
| S-TACAN 05 | 380-1200 376 (400-1.2/1.6) | 380-1200 376 (400-1.2/2.0) | |
| CIRCLING a | 610-3700 606 (700-3.7) | 720-4600 716 (800-4.6) | 820-6500 816 (900-6.5) |

CHANGES: MSA MIPS

RNIAF 23 MAR 2023

MIPS INSTRUMENT APPROACH CHART **TACAN RWY 05 LEEUWARDEN (EHLW)**

| | | | | | | | |
|------------------------------|--------------------|---------------------------------|------------|-----------------------------------|---------------|--------------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEUWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | |
| TACAN LWD CH 94 | APP COURSE 056° | FAF ALT 1200 FT | Descent GR | MDA 380 | THR ELEV 4 | ALS 660 m | LDA 8036 FT |

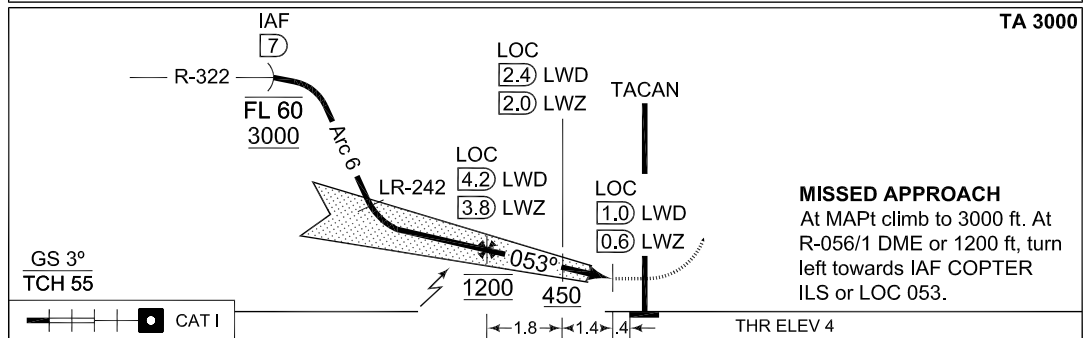
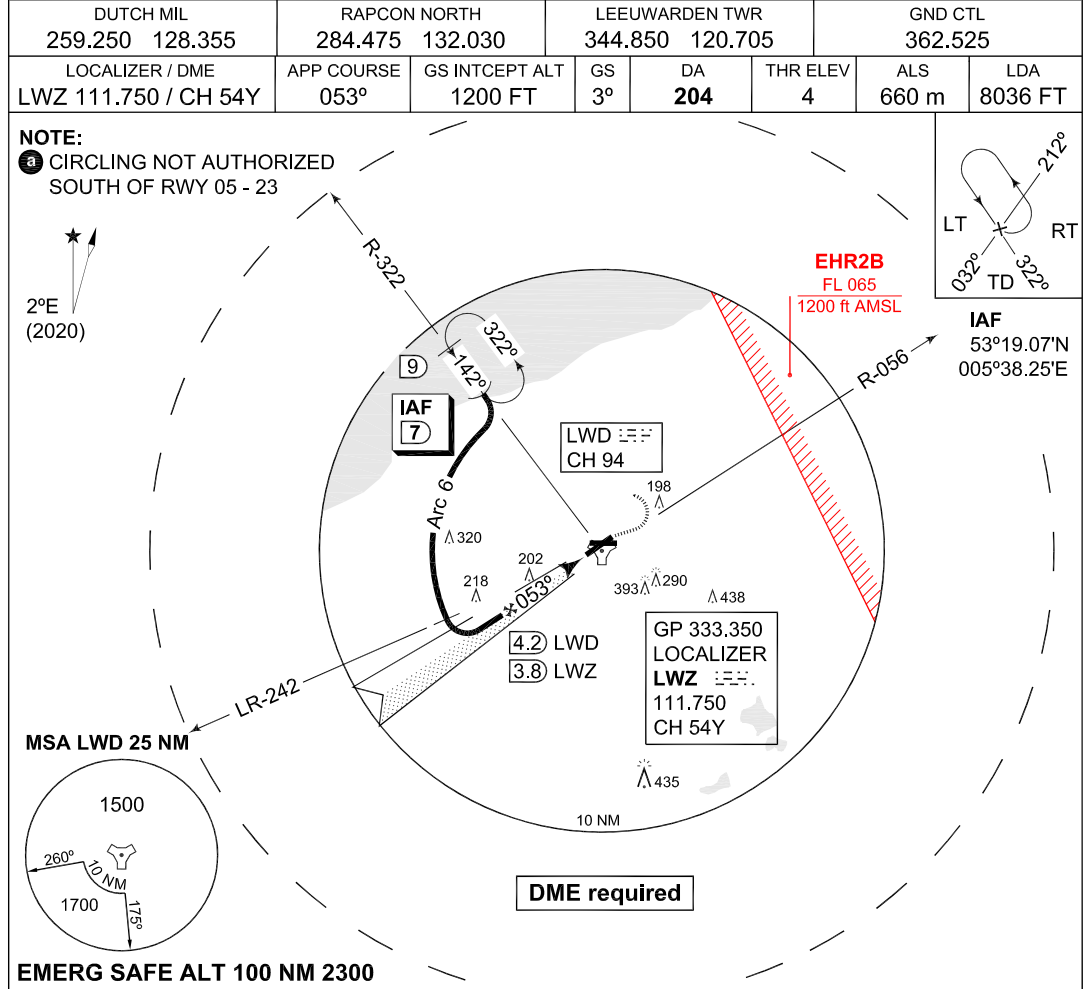


| CATEGORY | MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | |
|------------|--|------------------------------------|------------------------------------|--------------------------------|--------------------------------|
| | A | B | C | D | E |
| S-TACAN 05 | 380 -800 376 (400-0.8/1.6) | 380 -1200 376 (400-1.2/1.6) | 380 -1200 376 (400-1.2/2.0) | | |
| CIRCLING ⓐ | 500 -1900 496 (500-1.9) | 510 -2800 506 (600-2.8) | 610 -3700 606 (700-3.7) | 720 -4600 716 (800-4.6) | 820 -6500 816 (900-6.5) |

CHANGES: MSA MIPS

RNLAF 23 MAR 2023

MIPS INSTRUMENT APPROACH CHART AD ELEV 4 **COPTER ILS or LOC 053 LEEUWARDEN (EHLW)**



| CATEGORY | H |
|------------|--|
| | MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 |
| S-ILS 053 | 204 -400 200 (200-0.4/0.8) |
| S-LOC 053 | 350 -400 346 (400-0.4/0.8) |
| CIRCLING ⓐ | 500 -1900 496 (500-1.9) |

CHANGES: MSA

MIPS

RNLAf 23 MAR 2023

**PANS OPS
INSTRUMENT APPROACH CHART**

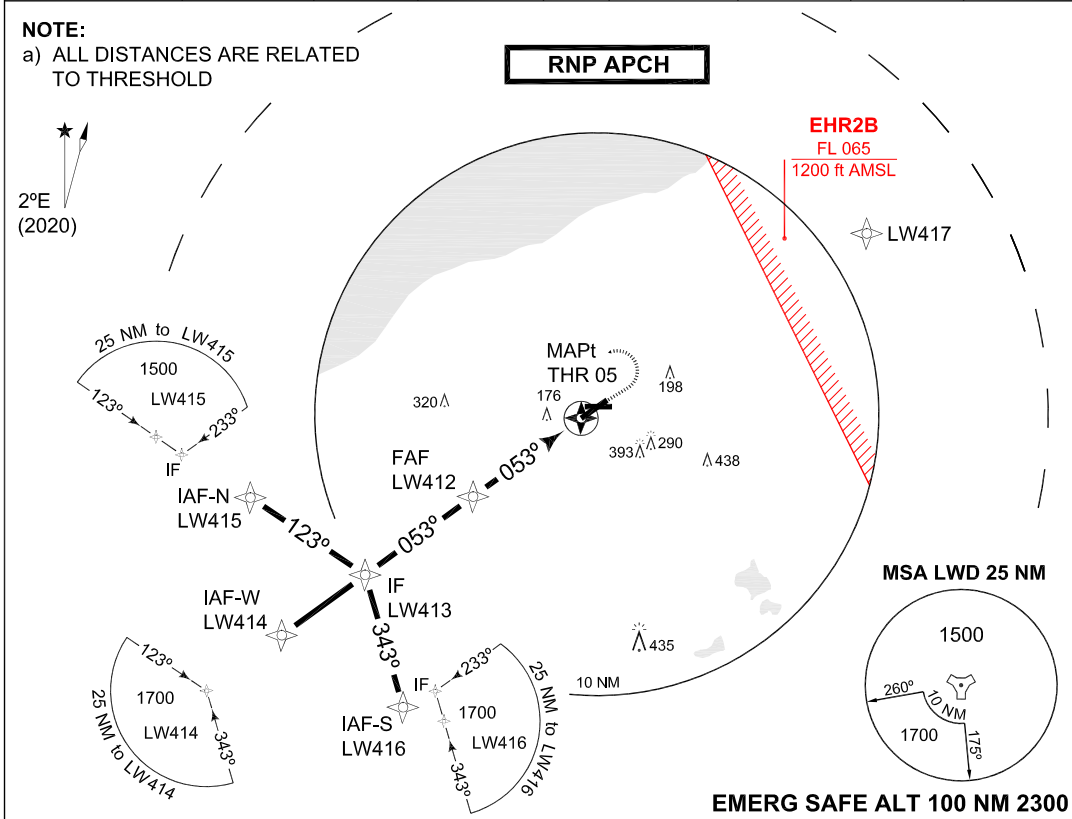
**RNP Z RWY 05
LEEUWARDEN (EHLW)**

AD ELEV 4

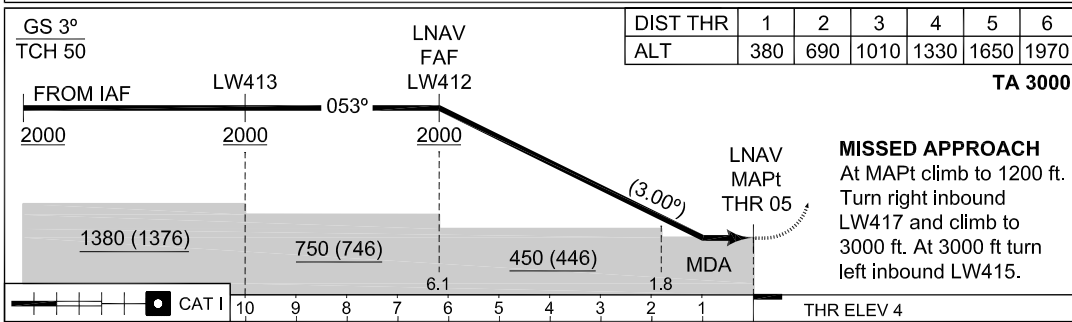
| | | | | | | | | |
|------------------------------|--------------------|---------------------------------|--------------------------|-----------------------------------|---------------|--------------------|--------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEUWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | | |
| EGNOS CHANNEL | APP COURSE 053° | FAF ALT 2000 FT | Descent GR 5.24% / 3° | MDA 380 | DA SEE CAT | THR ELEV 4 | ALS 660 m | LDA 8036 FT |

NOTE:

a) ALL DISTANCES ARE RELATED TO THRESHOLD



EMERG SAFE ALT 100 NM 2300



| | | | | | | | | | |
|----------|-------------------|-----------------------------------|-------------|------|-------|------------|-------------|---|--|
| CATEGORY | | A | | B | | C | | D | |
| MIPS | DA(H) LPV | N.A. | | | | | | | |
| | DA(H) LNAV / VNAV | N.A. | | | | | | | |
| | MDA(H) LNAV | 380-1300 376 (400-1.3/1.7) | | | | | | | |
| IAF-N | LW415 | 53°10.34'N | 005°23.82'E | FAF | LW412 | 53°09.68'N | 005°35.91'E | | |
| IAF-W | LW414 | 53°04.61'N | 005°23.80'E | MAPt | THR05 | 53°13.15'N | 005°44.27'E | | |
| IAF-S | LW416 | 53°02.64'N | 005°32.72'E | MATF | LW417 | 53°23.00'N | 006°10.44'E | | |
| IF | LW413 | 53°07.47'N | 005°30.61'E | | | | | | |

CHANGES: MSA

ENLAF 23 MAR 2023

**PANS OPS
INSTRUMENT APPROACH CHART**

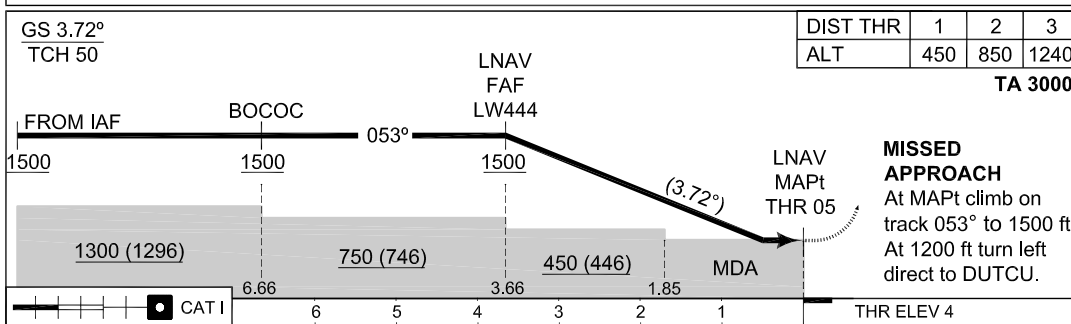
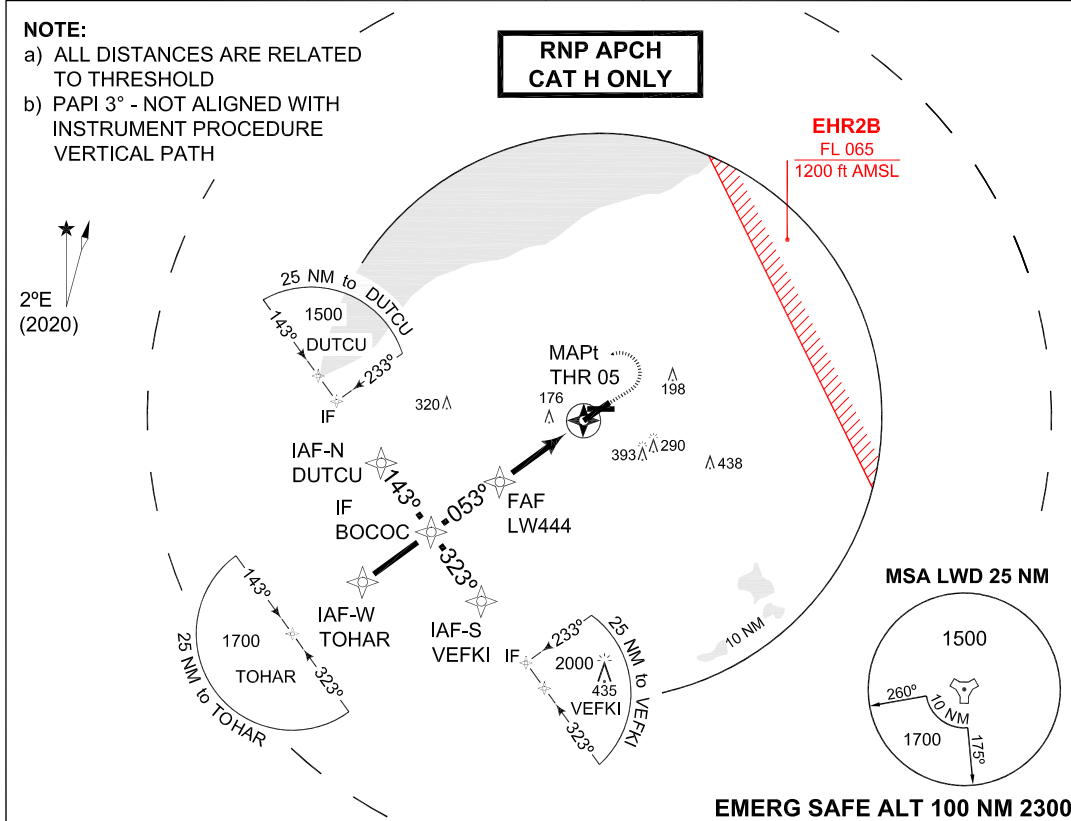
**RNP Y RWY 05
LEEWARDEN (EHLW)**

AD ELEV 4

| | | | | | | | | |
|------------------------------|--------------------|---------------------------------|----------------------------|----------------------------------|-----------|--------------------|--------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | | |
| EGNOS CHANNEL 67430 E05A | APP COURSE 053° | FAF ALT 1500 FT | Descent GR 6.5% / 3.72° | MDA 380 | DA 204 | THR ELEV 4 | ALS 660 m | LDA 8036 FT |

NOTE:

- a) ALL DISTANCES ARE RELATED TO THRESHOLD
- b) PAPI 3° - NOT ALIGNED WITH INSTRUMENT PROCEDURE VERTICAL PATH

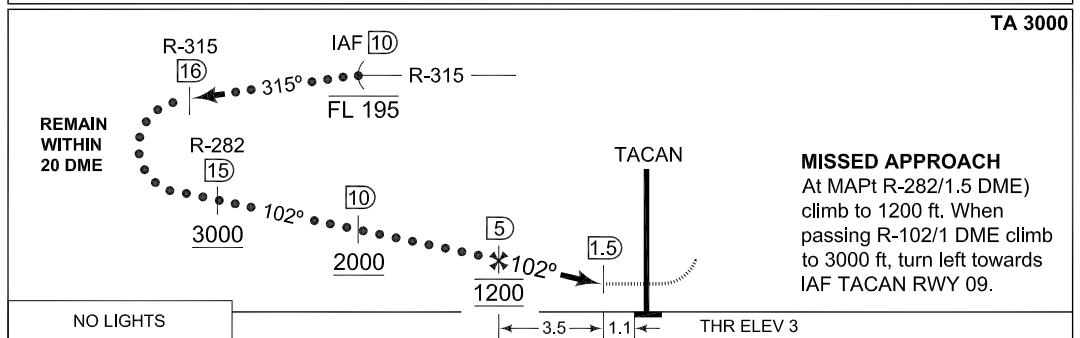
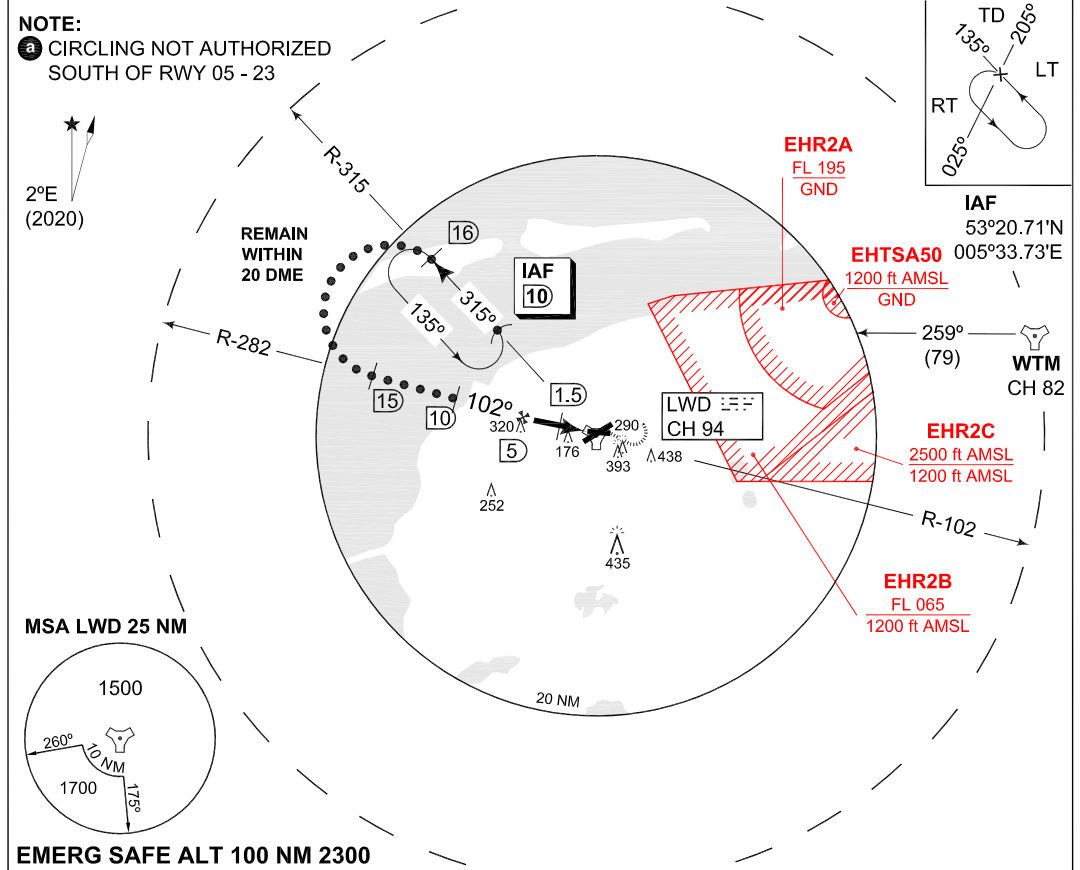


| | | | |
|-------------|----------------------------|---------------------------|--|
| MIPS | CATEGORY | H | |
| | DA(H) LPV | 204-400 200 (200-0.4/1.2) | |
| | DA(H) LNAV / VNAV | N.A. | |
| MDA(H) LNAV | 380-1300 376 (400-1.3/1.7) | | |

| | | | | | | | |
|-------|-------|------------|-------------|------|-------|------------|-------------|
| IAF-N | DUTCU | 53°11.83'N | 005°32.32'E | IF | BOCOC | 53°09.37'N | 005°35.16'E |
| IAF-W | TOHAR | 53°07.66'N | 005°31.07'E | FAF | LW444 | 53°11.07'N | 005°39.26'E |
| IAF-S | VEFKI | 53°06.90'N | 005°38.00'E | MAPt | THR05 | 53°13.15'N | 005°44.27'E |

MIPS INSTRUMENT APPROACH CHART **HI-TACAN RWY 09**
LEEWARDEN (EHLW)

| | | | | | | | |
|------------------------------|--------------------|---------------------------------|------------|----------------------------------|---------------|--------------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | |
| TACAN LWD CH 94 | APP COURSE 102° | FAF ALT 1200 FT | Descent GR | MDA 440 | THR ELEV 3 | ALS - | LDA 6368 FT |



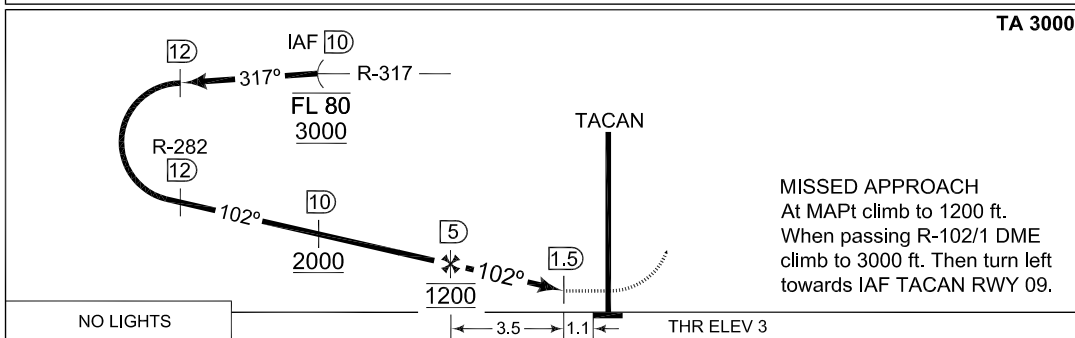
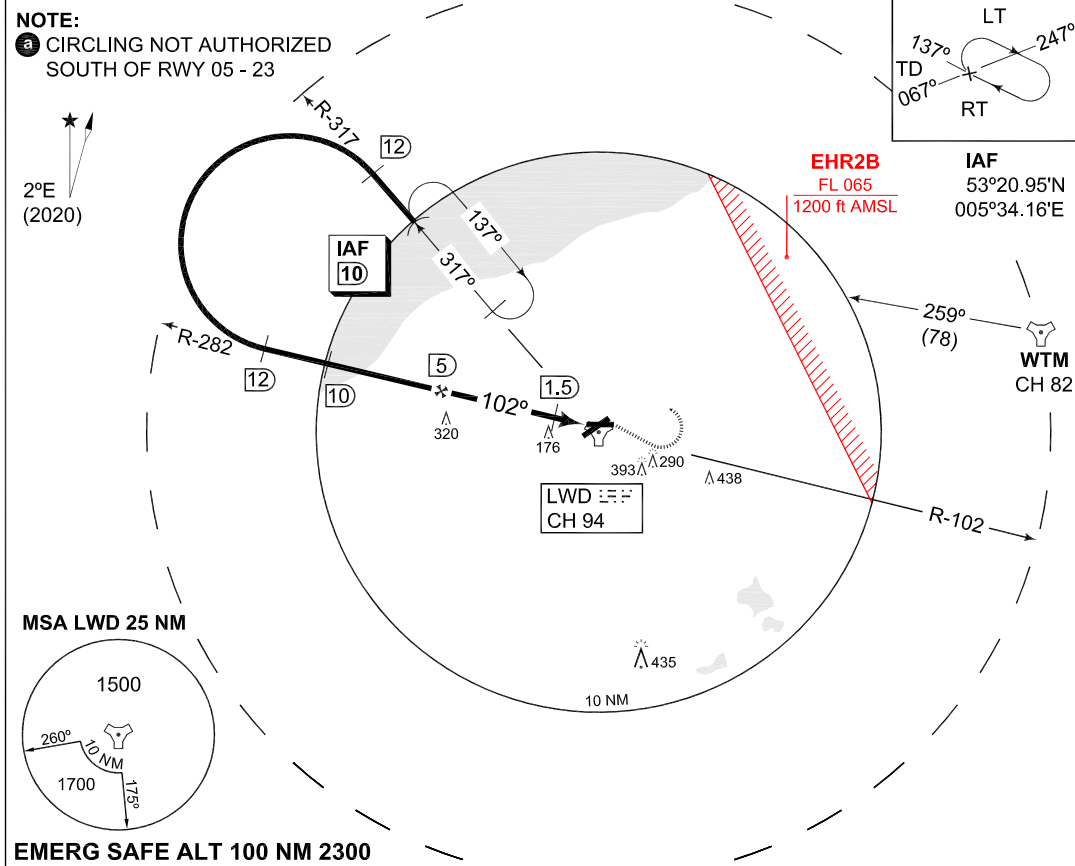
| CATEGORY | C | | D | | E | |
|------------|--|--|------------------------------------|--|--------------------------------|--|
| | MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | | |
| S-TACAN 09 | 440 -2000 437 (500-2.0/2.0) | | 440 -2400 437 (500-2.4/2.4) | | | |
| CIRCLING Ⓢ | 610 -3700 606 (700-3.7) | | 720 -4600 716 (800-4.6) | | 820 -6500 816 (900-6.5) | |

CHANGES: MSA
MIPS

RNLAF 23 MAR 2023

MIPS INSTRUMENT APPROACH CHART **TACAN RWY 09**
LEEUWARDEN (EHLW)

| | | | | | | | |
|------------------------------|--------------------|---------------------------------|------------|-----------------------------------|---------------|--------------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEUWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | |
| TACAN LWD CH 94 | APP COURSE 102° | FAF ALT 1200 FT | Descent GR | MDA 440 | THR ELEV 3 | ALS - | LDA 6368 FT |

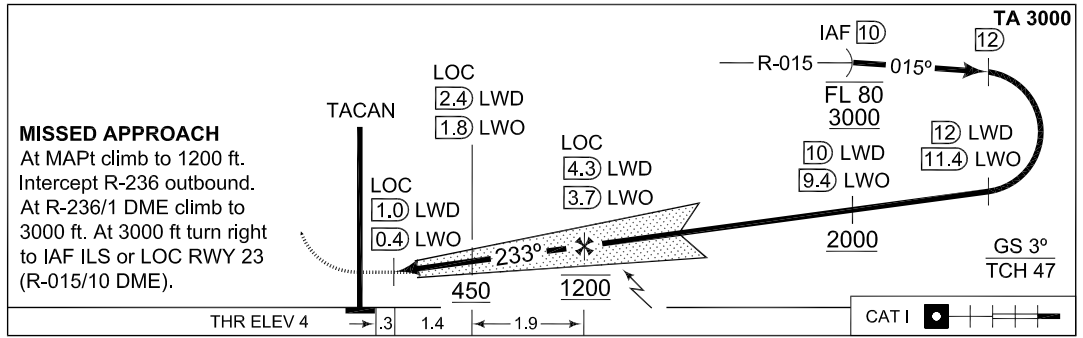
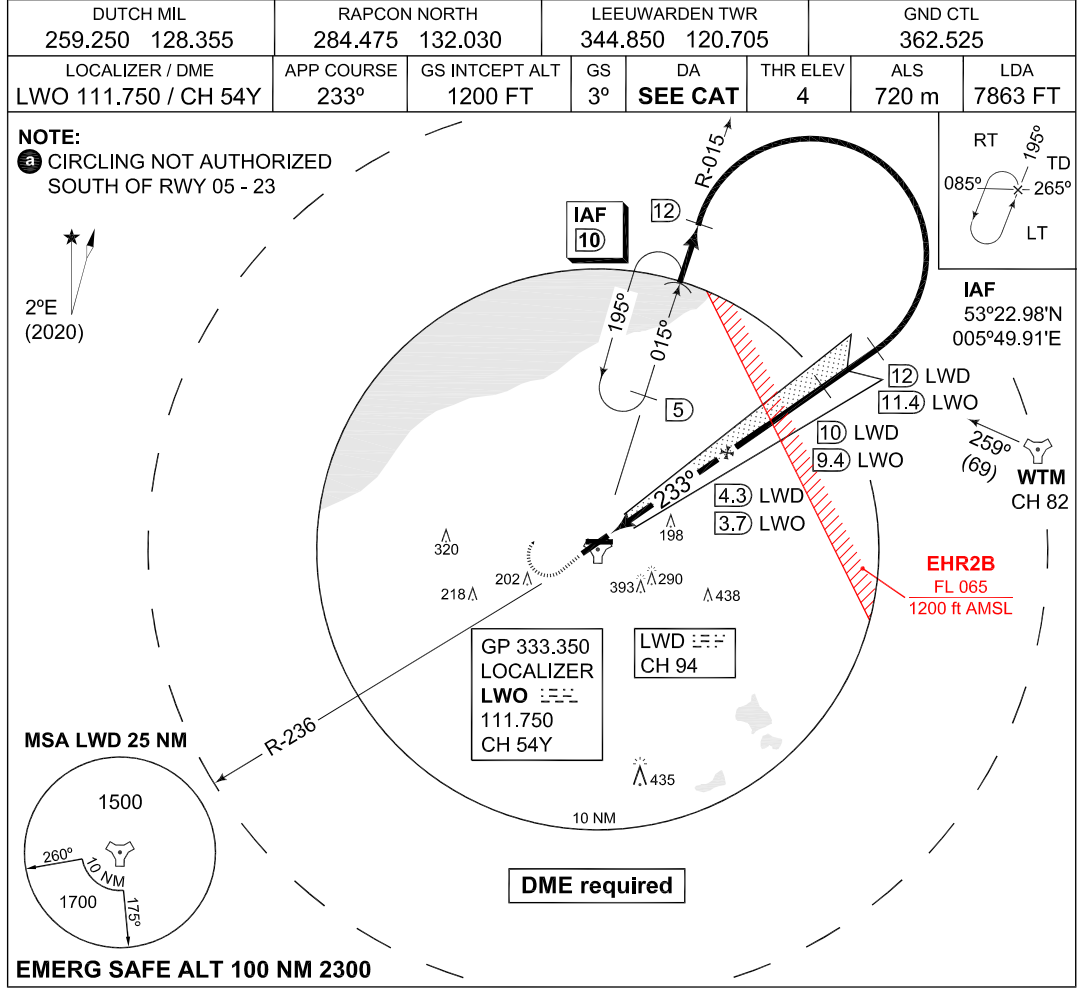


| CATEGORY | A | B | C | D | E |
|--|------------------------------------|------------------------------------|------------------------------------|--------------------------------|--------------------------------|
| MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | | |
| S-TACAN 09 | 440 -1600 437 (500-1.6/1.6) | 440 -2000 437 (500-2.0/2.0) | 440 -2400 437 (500-2.4/2.4) | | |
| CIRCLING ⓐ | 500 -1900 496 (500-1.9) | 510 -2800 506 (600-2.8) | 610 -3700 606 (700-3.7) | 720 -4600 716 (800-4.6) | 820 -6500 816 (900-6.5) |

CHANGES: MSA
MIPS

RNLAF 23 MAR 2023

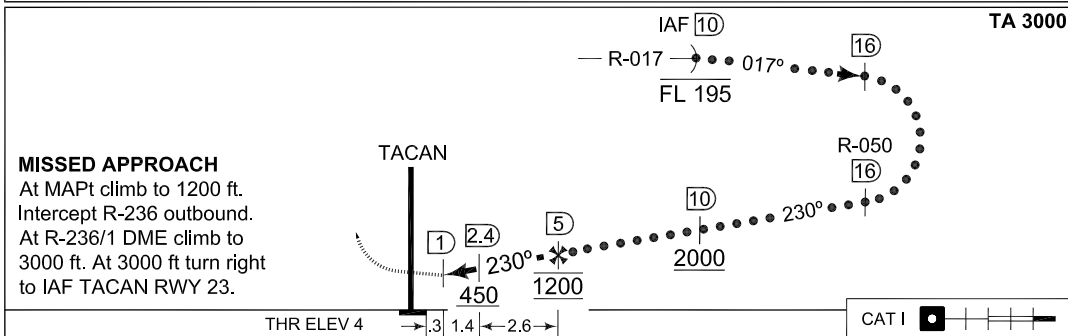
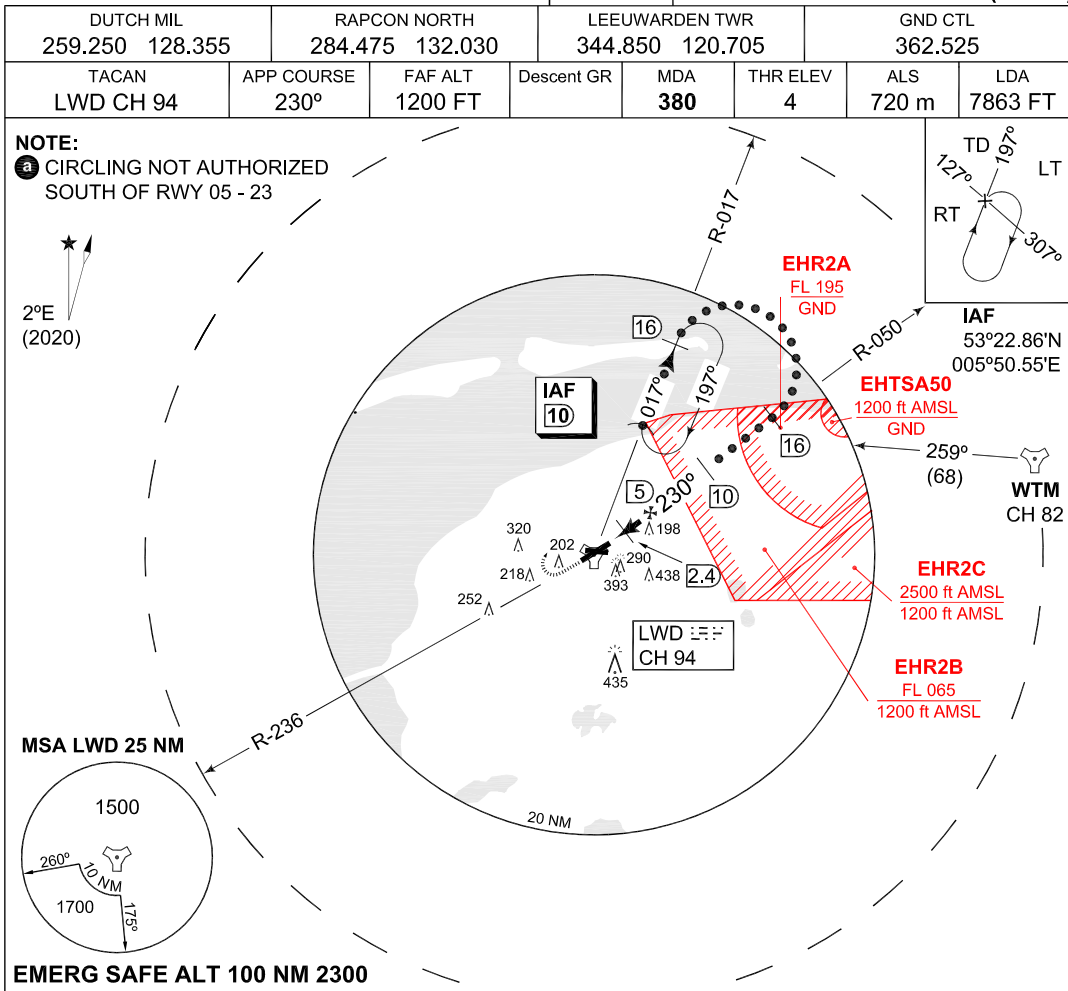
MIPS INSTRUMENT APPROACH CHART **ILS or LOC RWY 23 LEEUWARDEN (EHLW)**



| CATEGORY | A | B | C | D | E |
|--|------------------------------|------------------------------|-------------------------------|------------------------------|------------------------------|
| MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | | |
| S-ILS 23 | 217-800 213 (300-0.8/1.6) | 227-800 223 (300-0.8/1.6) | 237-800 233 (300-0.8/1.6) | 247-800 243 (300-0.8/1.6) | 265-800 262 (300-0.8/1.6) |
| S-LOC 23 | 340-800 336 (400-0.8/1.6) | | 340-1200 336 (400-1.2/1.6) | 340-1200 336 (400-1.2/2.0) | |
| CIRCLING a | 500-1900 496 (500-1.9) | 510-2800 506 (600-2.8) | 610-3700 606 (700-3.7) | 720-4600 716 (800-4.6) | 820-6500 816 (900-6.5) |

CHANGES: MSA MIPS RNLAF 23 MAR 2023

MIPS **HI-TACAN RWY 23**
INSTRUMENT APPROACH CHART **LEEWARDEN (EHLW)**

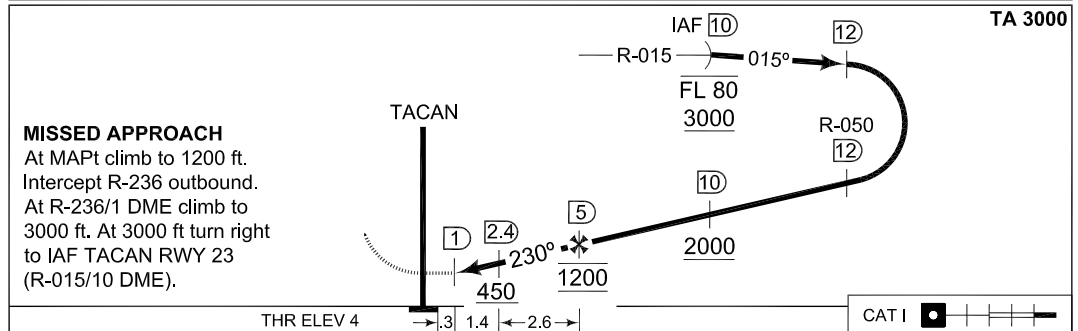
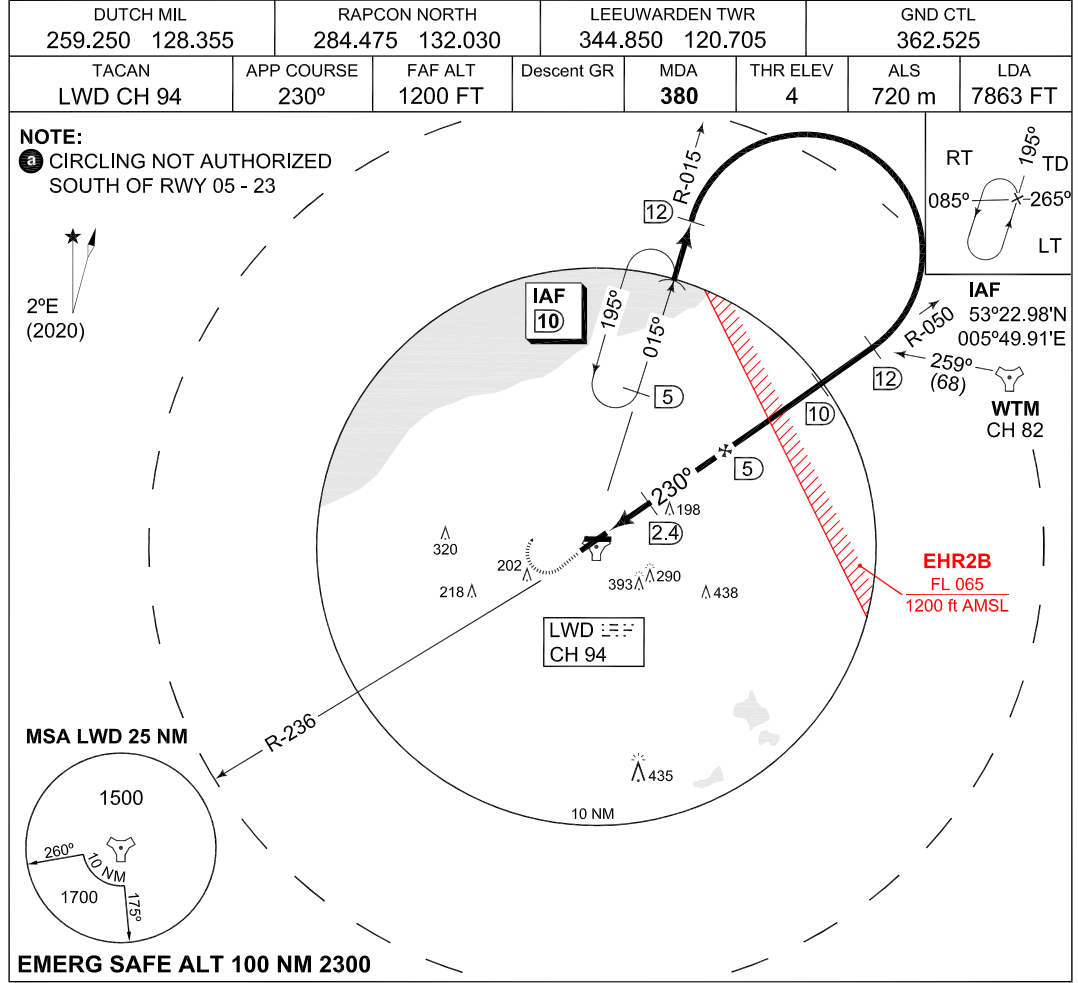


| CATEGORY | C | | D | | E |
|------------|--|--|-----------------------------|--|-------------------------|
| | MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | |
| S-TACAN 23 | 380 -1200 376 (400-1.2/1.6) | | 380 -1200 376 (400-1.2/2.0) | | |
| CIRCLING a | 610 -3700 606 (700-3.7) | | 720 -4600 716 (800-4.6) | | 820 -6500 816 (900-6.5) |

CHANGES: MSA

RNLAF 23 MAR 2023

MIPS INSTRUMENT APPROACH CHART **TACAN RWY 23 LEEUWARDEN (EHLW)**



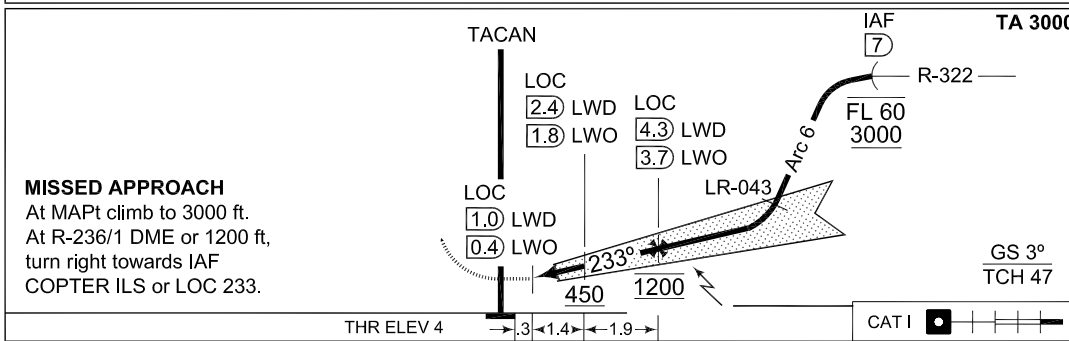
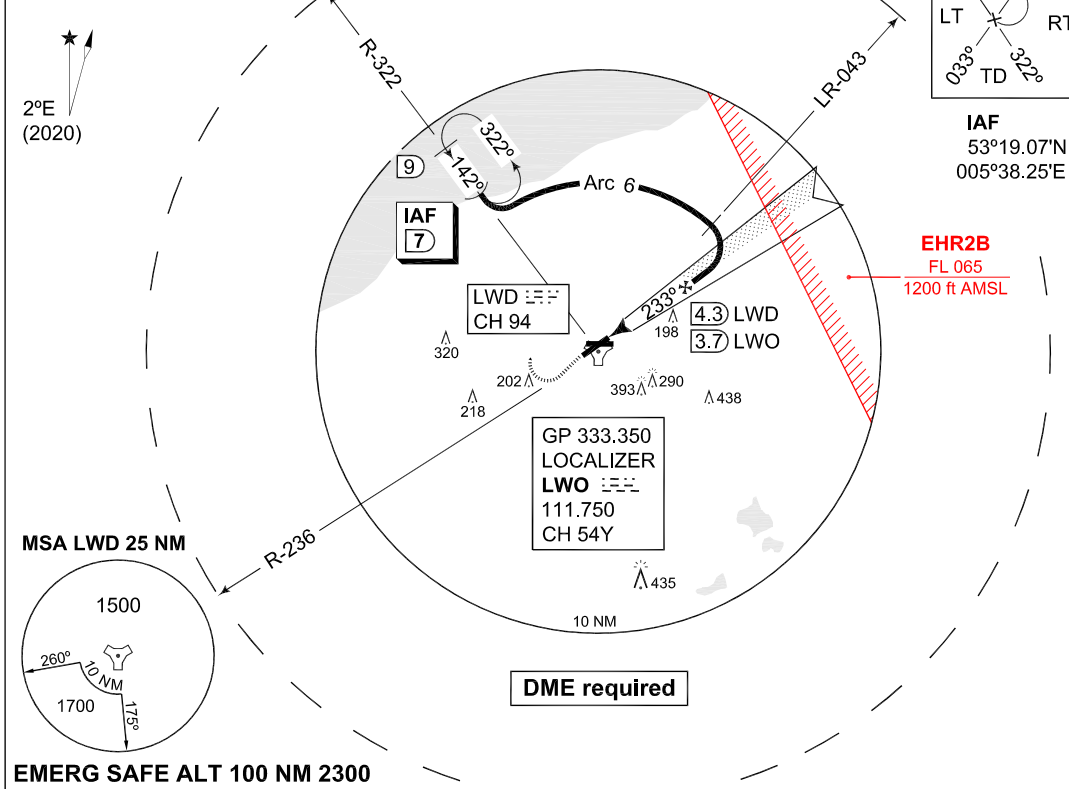
| CATEGORY | MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | |
|------------|--|--------------------------------|------------------------------------|------------------------------------|--------------------------------|
| | A | B | C | D | E |
| S-TACAN 23 | 380 -800 376 (400-0.8/1.6) | | 380 -1200 376 (400-1.2/1.6) | 380 -1200 376 (400-1.2/2.0) | |
| CIRCLING a | 500 -1900 496 (500-1.9) | 510 -2800 506 (600-2.8) | 610 -3700 606 (700-3.7) | 720 -4600 716 (800-4.6) | 820 -6500 816 (900-6.5) |

MIPS INSTRUMENT APPROACH CHART AD ELEV 4 **COPTER ILS or LOC 233 LEEUWARDEN (EHLW)**

| | | | | |
|---|---------------------------------|-----------------------------------|--------------------|----------------|
| DUTCH MIL 259.250 128.355 | RAPCON NORTH 284.475 132.030 | LEEUWARDEN TWR 344.850 120.705 | GND CTL 362.525 | |
| LOCALIZER / DME LWO 111.750 / CH 54Y | APP COURSE 233° | GS INTCEPT ALT 1200 FT | GS 3° | DA 204 |
| | | | THR ELEV 4 | ALS 720 m |
| | | | | LDA 7863 FT |

NOTE:

(a) CIRCLING NOT AUTHORIZED SOUTH OF RWY 05 - 23



| CATEGORY | H |
|--|-----------------------------------|
| MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | |
| S-ILS 233 | 204 -400 200 (200-0.4/0.8) |
| S-LOC 233 | 340 -400 336 (400-0.4/0.8) |
| CIRCLING (a) | 500 -1900 496 (500-1.9) |

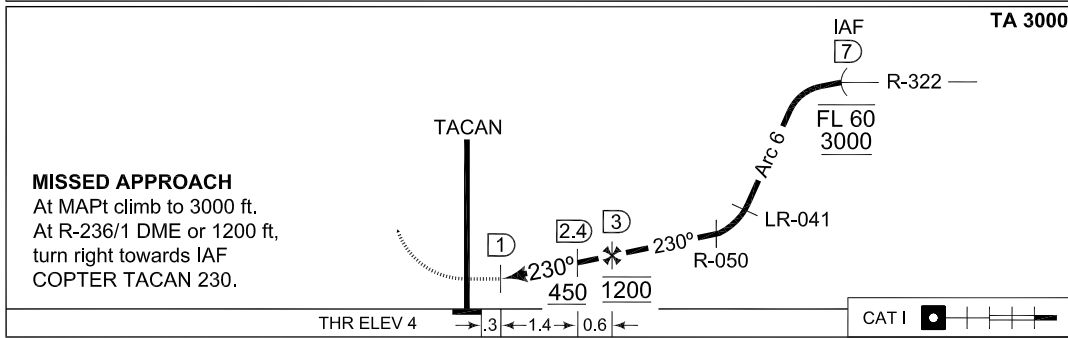
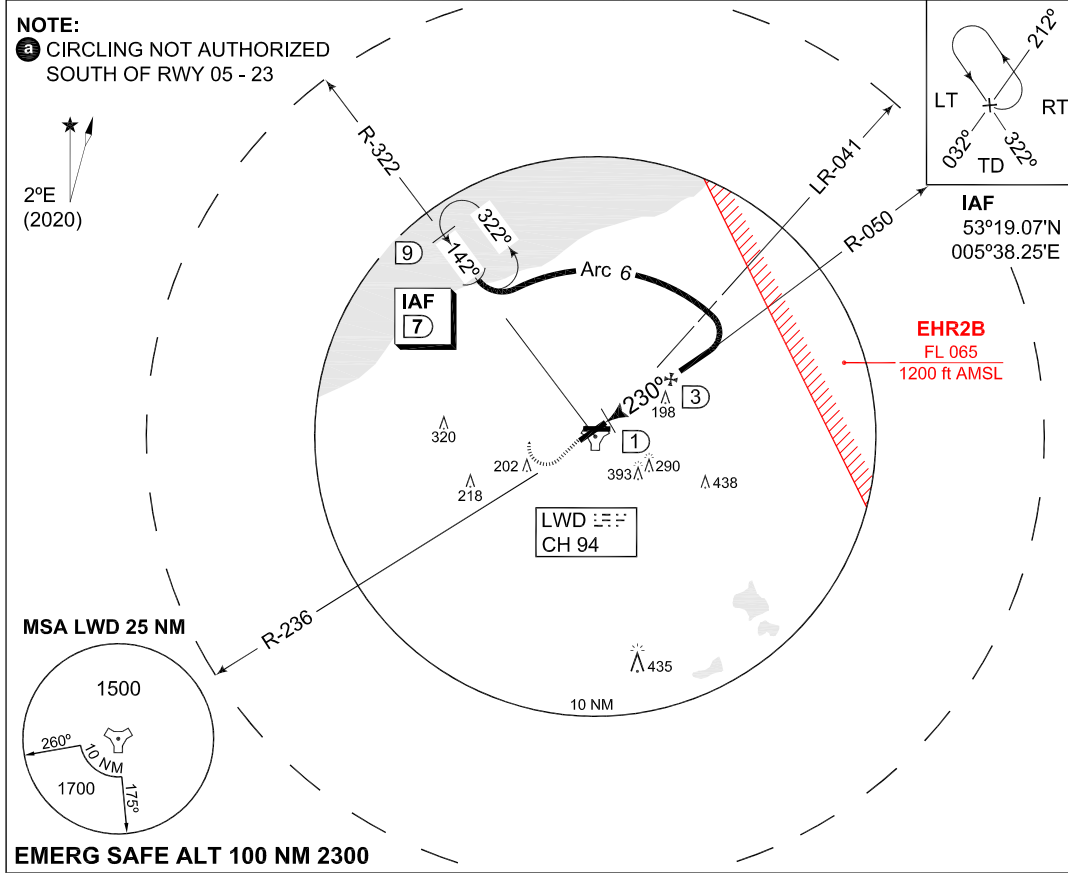
CHANGES: MSA

MIPS

RNLAf 23 MAR 2023

MIPS INSTRUMENT APPROACH CHART **COPTER TACAN 230 LEEUWARDEN (EHLW)**

| | | | | | | | |
|------------------------------|--------------------|---------------------------------|------------|-----------------------------------|---------------|--------------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEUWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | |
| TACAN LWD CH 94 | APP COURSE 230° | FAF ALT 1200 FT | Descent GR | MDA 380 | THR ELEV 4 | ALS 720 m | LDA 7863 FT |



| | |
|------------------|-----------------------------------|
| CATEGORY | A |
| COPTER TACAN 230 | 380 -400 376 (400-0.4/0.8) |
| CIRCLING (a) | 500 -1900 496 (500-1.9) |

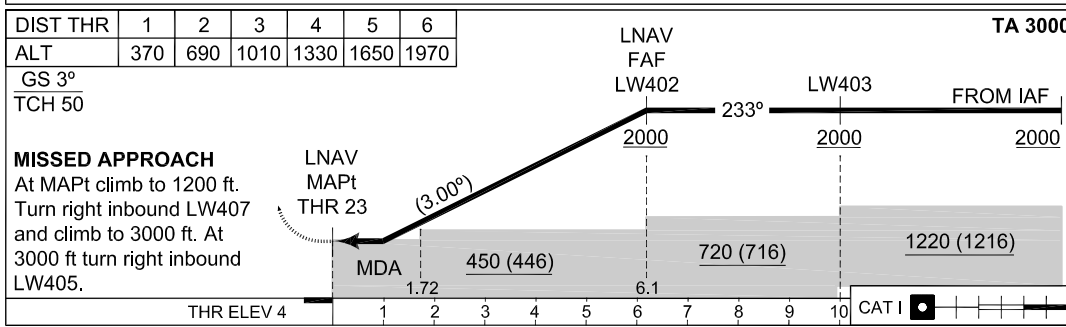
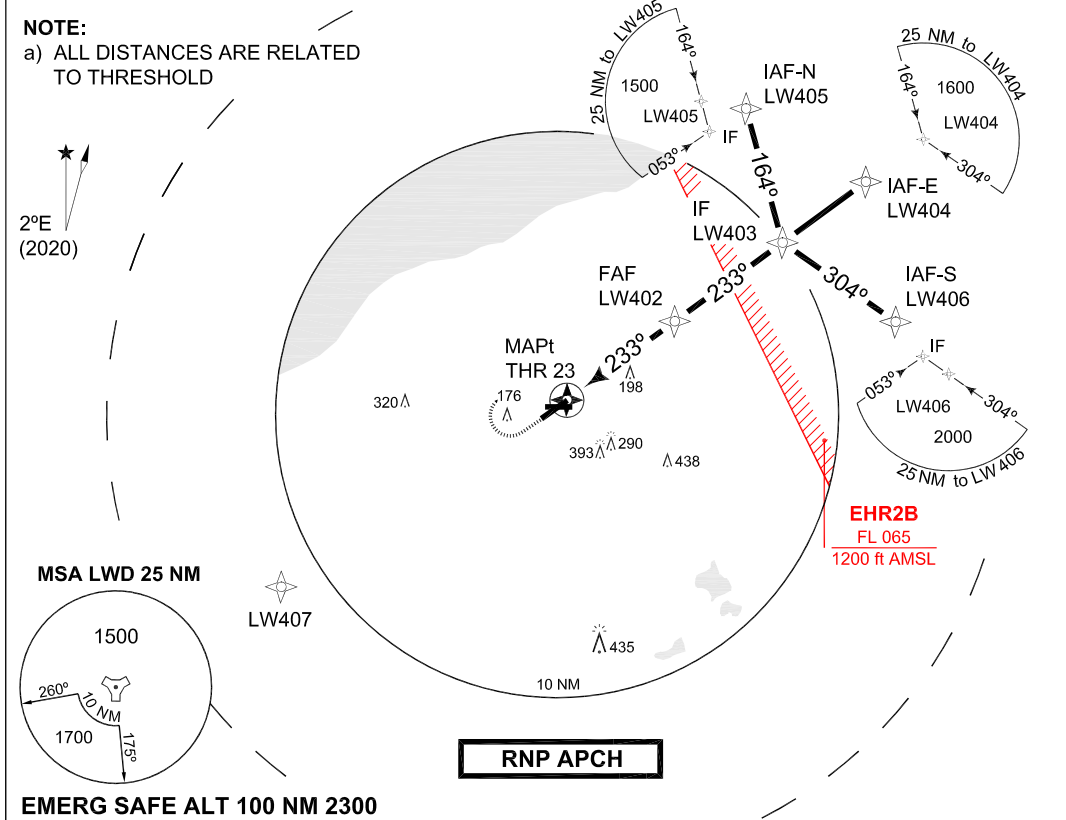
CHANGES: MSA

MIPS

RNLAF 23 MAR 2023

PANS OPS INSTRUMENT APPROACH CHART **RNP Z RWY 23 LEEUWARDEN (EHLW)**

| | | | | | | | | |
|------------------------------|--------------------|---------------------------------|--------------------------|-----------------------------------|----------------------|--------------------|--------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEUWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | | |
| EGNOS CHANNEL | APP COURSE 233° | FAF ALT 2000 FT | Descent GR 5.24% / 3° | MDA 370 | DA SEE CAT | THR ELEV 4 | ALS 720 m | LDA 7863 FT |



| | | | | | |
|-------------|------------------------------------|------|---|---|---|
| MIPS | CATEGORY | A | B | C | D |
| | DA(H) LPV | N.A. | | | |
| | DA(H) LNAV / VNAV | N.A. | | | |
| MDA(H) LNAV | 370 -1000 366 (400-1.0/1.7) | | | | |

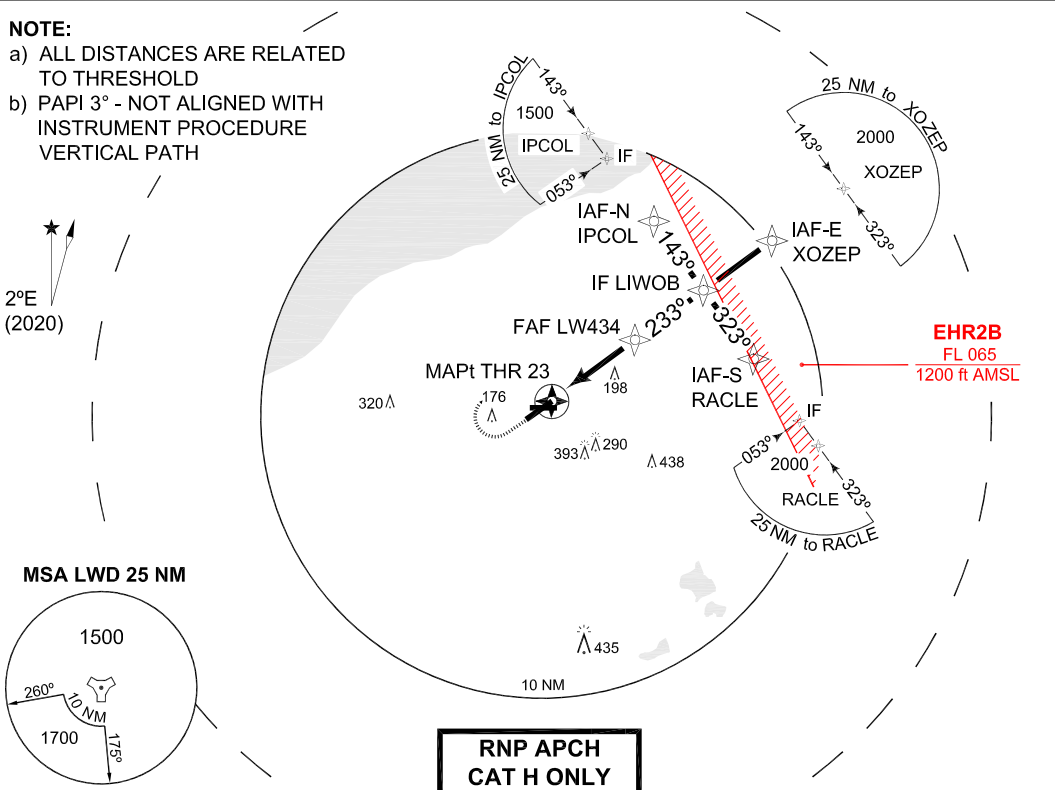
| | | | | | | | |
|-------|-------|------------|-------------|------|-------|------------|-------------|
| IAF-N | LW405 | 53°24.36'N | 005°57.71'E | FAF | LW402 | 53°17.34'N | 005°54.42'E |
| IAF-E | LW404 | 53°22.35'N | 006°06.65'E | MAPt | THR23 | 53°13.88'N | 005°46.04'E |
| IAF-S | LW406 | 53°16.61'N | 006°06.56'E | MATF | LW407 | 53°03.94'N | 005°20.04'E |
| IF | LW403 | 53°19.54'N | 005°59.77'E | | | | |

PANS OPS INSTRUMENT APPROACH CHART **RNP Y RWY 23 LEEUWARDEN (EHLW)**

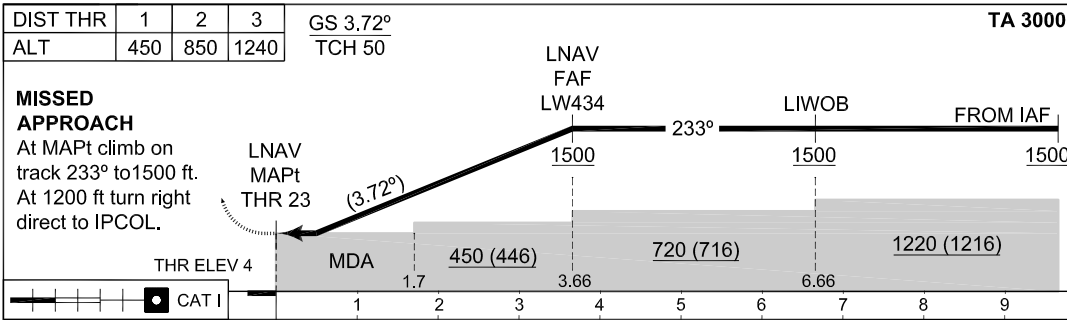
| | | | | | | | | |
|------------------------------|--------------------|---------------------------------|----------------------------|-----------------------------------|------------------|--------------------|--------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEUWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | | |
| EGNOS CHANNEL 92974 E23A | APP COURSE 233° | FAF ALT 1500 FT | Descent GR 6.5% / 3.72° | MDA 370 | DA 204 | THR ELEV 4 | ALS 720 m | LDA 7863 FT |

NOTE:

- a) ALL DISTANCES ARE RELATED TO THRESHOLD
- b) PAPI 3° - NOT ALIGNED WITH INSTRUMENT PROCEDURE VERTICAL PATH



EMERG SAFE ALT 100 NM 2300



| | | | |
|-------------|-------------------|------------------------------------|--|
| MIPS | CATEGORY | H | |
| | DA(H) LPV | 204 -400 200 (200-0.4/1.2) | |
| | DA(H) LNAV / VNAV | N.A. | |
| | MDA(H) LNAV | 370 -1000 366 (400-1.0/1.7) | |

| | | | | | | | |
|-------|-------|------------|-------------|------|-------|------------|-------------|
| IAF-N | IPCOL | 53°20.12'N | 005°52.34'E | IF | LIWOB | 53°17.65'N | 005°55.18'E |
| IAF-E | XOZEP | 53°19.35'N | 005°59.30'E | FAF | LW434 | 53°15.95'N | 005°51.06'E |
| IAF-S | RACLE | 53°15.18'N | 005°58.00'E | MAPt | THR23 | 53°13.88'N | 005°46.04'E |

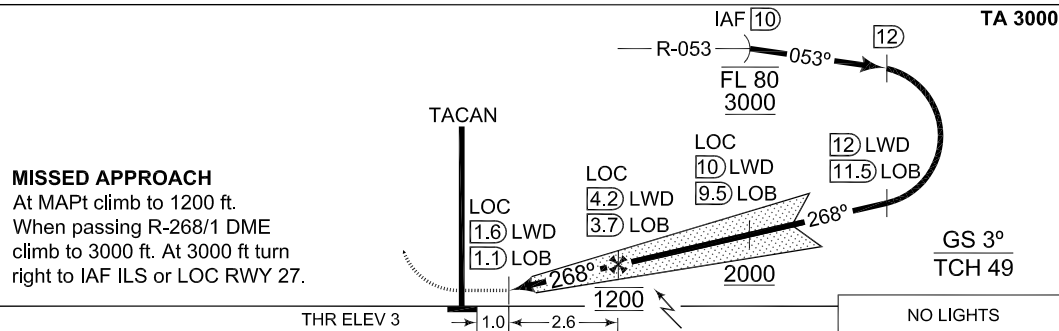
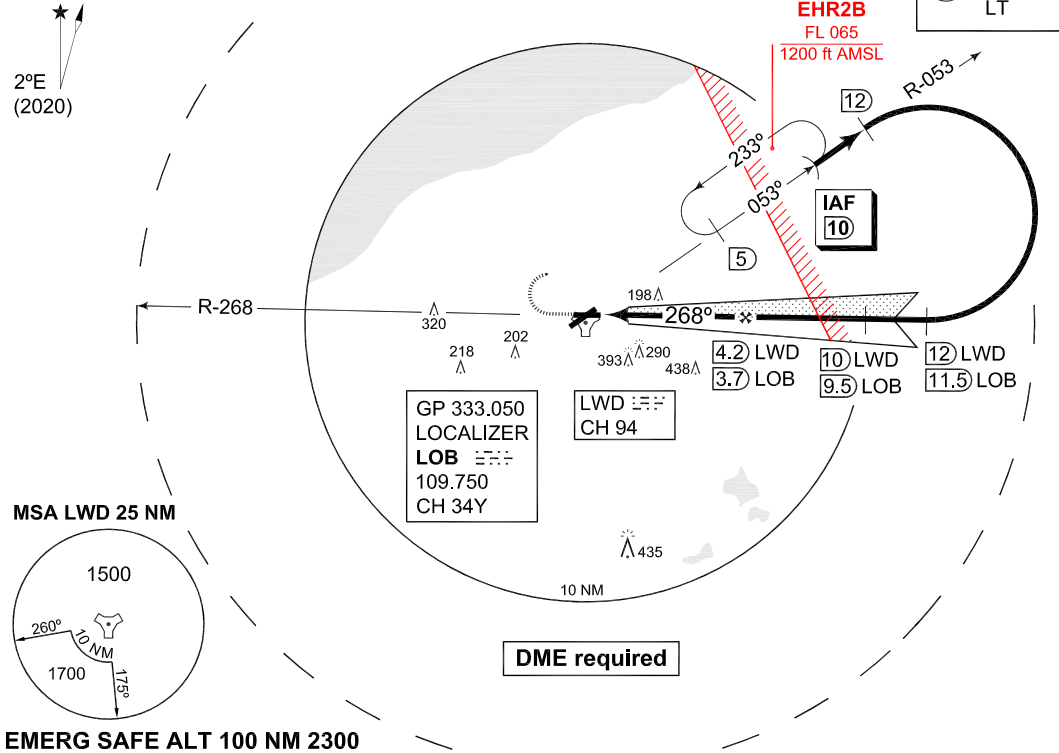
MIPS INSTRUMENT APPROACH CHART AD ELEV 4 **ILS or LOC RWY 27 LEEUWARDEN (EHLW)**

| | | | | | | | | |
|---|--|---------------------------------|---------------------------|-----------------------------------|----------------------|--------------------|----------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEUWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | | |
| LOCALIZER / DME LOB 109.750 / CH 34Y | | APP COURSE 268° | GS INTCEPT ALT 1200 FT | GS 3° | DA SEE CAT | THR ELEV 3 | ALS - | LDA 6561 FT |

NOTE:
 a CIRCLING NOT AUTHORIZED SOUTH OF RWY 05 - 23

IAF
 53°19.17'N
 005°58.72'E

EHR2B
 FL 065
 1200 ft AMSL



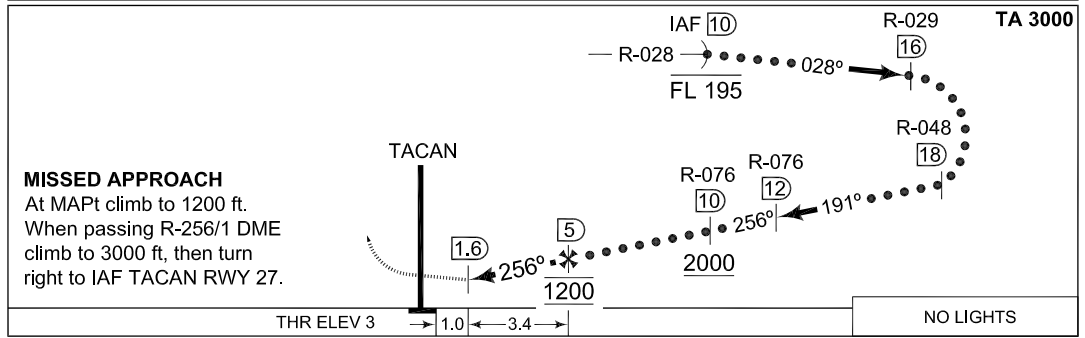
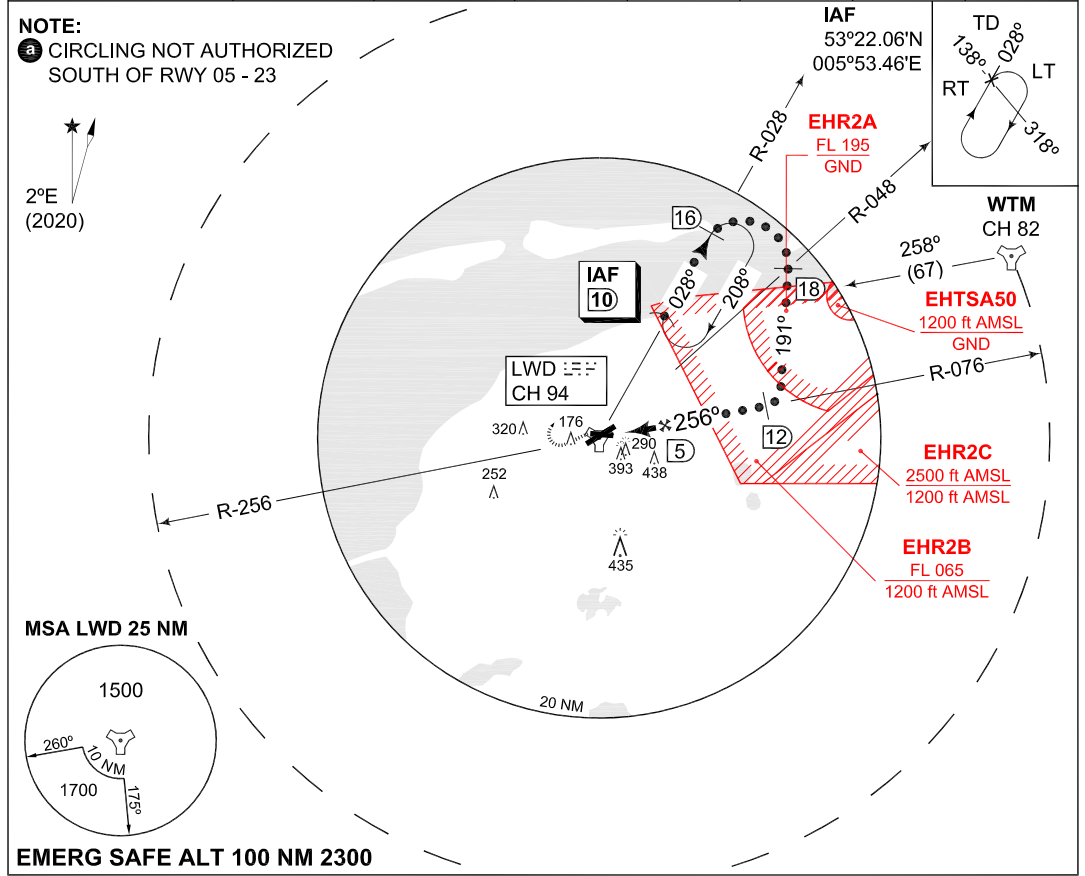
| CATEGORY | MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | | |
|------------|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------|
| | A | B | C | D | E | H |
| S-ILS 27 | 203-1600 200 (200-1.6/1.6) | 211-1600 208 (300-1.6/1.6) | 220-1600 217 (300-1.6/1.6) | 230-1600 227 (300-1.6/1.6) | 240-1600 237 (300-1.6/1.6) | 203-800 200 (200-0.8/0.8) |
| S-LOC 27 | 360-1600 357 (400-1.6/1.6) | | | 360-2000 357 (400-2.0/2.0) | | 360-800 357 (400-0.8/0.8) |
| CIRCLING a | 500-1900 496 (500-1.9) | 510-2800 506 (600-2.8) | 610-3700 606 (700-3.7) | 720-4600 716 (800-4.6) | 820-6500 816 (900-6.5) | N.A. |

CHANGES: MSA

RNLAF 23 MAR 2023

MIPS INSTRUMENT APPROACH CHART **HI-TACAN RWY 27 LEEUWARDEN (EHLW)**

| | | | | | | | |
|------------------------------|--------------------|---------------------------------|------------|-----------------------------------|---------------|--------------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEUWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | |
| TACAN LWD CH 94 | APP COURSE 256° | FAF ALT 1200 FT | Descent GR | MDA 390 | THR ELEV 3 | ALS - | LDA 6561 FT |



| CATEGORY | C | D | E |
|--|------------------------------------|------------------------------------|--------------------------------|
| MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | |
| S-TACAN 27 | 390 -1600 387 (400-1.6/1.6) | 390 -2000 387 (400-2.0/2.0) | |
| CIRCLING ⓐ | 610 -3700 606 (700-3.7) | 720 -4600 716 (800-4.6) | 820 -6500 816 (900-6.5) |

CHANGES: MSA

MIPS

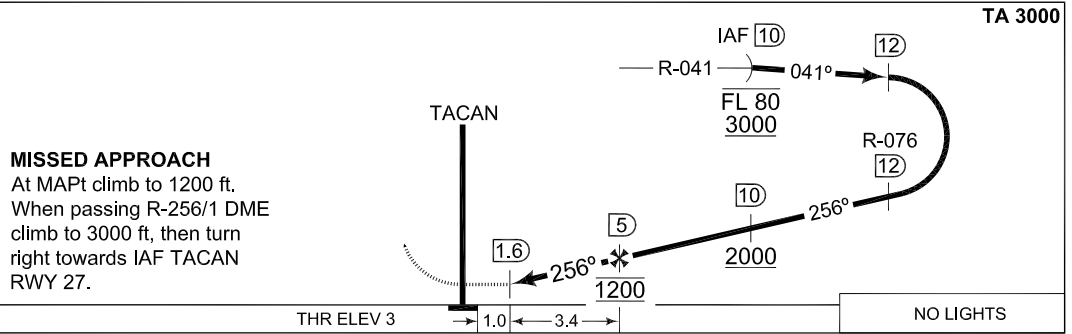
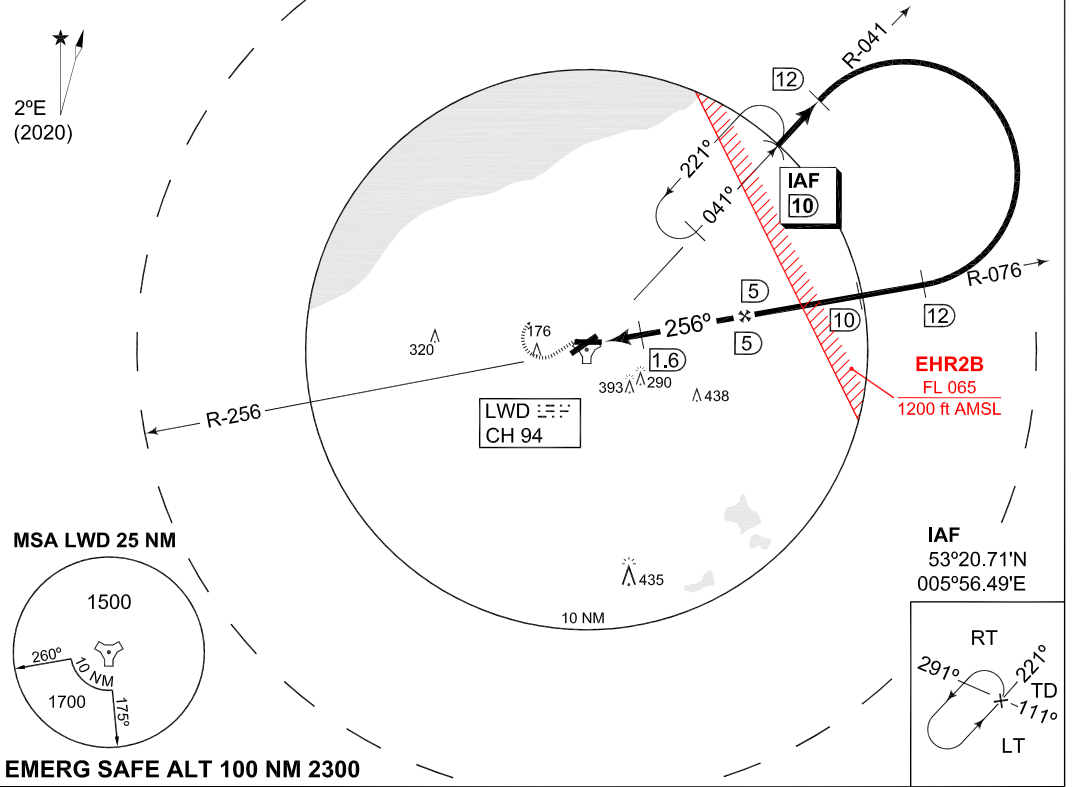
RNLAF 23 MAR 2023

MIPS INSTRUMENT APPROACH CHART **TACAN RWY 27 LEEUWARDEN (EHLW)**

| | | | | | | | |
|------------------------------|--|---------------------------------|--------------------|-----------------------------------|------------|--------------------|----------------|
| DUTCH MIL 259.250 128.355 | | RAPCON NORTH 284.475 132.030 | | LEEUWARDEN TWR 344.850 120.705 | | GND CTL 362.525 | |
| TACAN LWD CH 94 | | APP COURSE 256° | FAF ALT 1200 FT | Descent GR | MDA 390 | THR ELEV 3 | LDA 6561 FT |

NOTE:

- ⓐ CIRCLING NOT AUTHORIZED SOUTH OF RWY 05 - 23



| CATEGORY | A | B | C | D | E |
|--|------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-----------------------------------|
| MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1 | | | | | |
| S-TACAN 27 | 390 -1600 387 (400-1.6/1.6) | | | 390 -2000 387 (400-2.0/2.0) | |
| CIRCLING ⓐ | 500 -1900 496 (500-1.9) | 510 -2800 506 (600-2.8) | 610 -3700 606 (700-3.7) | 720 -4600 716 (800-4.6) | 820 -6500 816 (900-6.5) |

CHANGES: MSA

MIPS

RNLAF 23 MAR 2023

PART 3 – AERODROMES (AD)

AD 2.

**AD 2. AERODROMES
VOLKEL**

VOLKEL

EHVK AD 2.1 Aerodrome location indicator and name

EHVK - Volkel

EHVK AD 2.2 Geographical and administrative data

| | | |
|---|--|--|
| 1 | ARP | 51°39'25.95"N 005°42'28.17"E |
| 2 | Direction and distance from city | 213° MAG/12.6 NM NIJMEGEN |
| 3 | Elevation/Reference temperature | + 73 ft AMSL/22.2° C (JUL) |
| 4 | MAG VAR/Annual change | 1°56' E (JAN 2020)/11'E |
| 5 | AD operating authority Postal address Visitors' address Telephone E-mail AFTN | RNLAF DIB loket CLSK Vliegbasis Volkel MPC 86A P.O. Box 8762 4820 BB Breda Zeelandsedijk 10 5408 ZW Volkel +31(0)413 276911 vkl.lvl.lw.clsk@mindef.nl EHVKZTZX |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHVK AD 2.3 Operational hours

| | | |
|----|----------------------------|-------------------------------|
| 1 | AD OPR HR | MON/FRI 0700/1545 (0600/1445) |
| 2 | Customs and immigration | 2 HR PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | HO |
| 5 | ATS Reporting Office (ARO) | HO |
| 6 | MET Briefing Office | HO |
| 7 | ATS | HO |
| 8 | Fuelling | HO |
| 9 | Handling | HO |
| 10 | Security | HO |
| 11 | De-icing | HO |
| 12 | Remarks | PPR 24 HRS. See 2.23 |

EHVK AD 2.4 Handling services and facilities

| | | |
|----|--------------------------------|--|
| 1 | Cargo-handling facilities | Yes |
| 2 | Fuel/oil types | F-34, H-515, O-148, O-155, O-156 |
| 3 | Fuelling facilities/capacity | No limitations |
| 4 | Oxygen | LHOX, LOX |
| 5 | Nitrogen | LPNIT, HPNIT |
| 6 | De-icing facilities/type | S-738, S-742 |
| 7 | Starting units | DSA 150, DSA600, SO 8.5, JAS, EC 3500, DC 3500 |
| 8 | Hangar space for visiting ACFT | No |
| 9 | Repair facilities | F16 |
| 10 | Remarks | Nil |

EHVK AD 2.5 Passenger facilities

| | | |
|---|--------------------|----------------------------|
| 1 | Remain overnight | AVBL O/R |
| 2 | Medical facilities | Medical officer, ambulance |
| 3 | Remarks | Nil |

EHVK AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|------------|
| 1 | AD category for fire fighting | NATO CAT 7 |
| 2 | Remarks | Nil |

EHVK AD 2.7 Seasonal availability - clearing

| | | |
|---|------------------------|---|
| 1 | Seasonal availability | All seasons |
| 2 | Snow removal equipment | Yes |
| 3 | Remarks | Caution advised in winter during ice conditions |

EHVK AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|---|
| 1 | Apron surface and strength | North of beginning RWY 06, PCN: 61 R/B/W/T E – E1, PCN 65 R/B/W/T |
| 2 | TWY width, surface and strength | Width 39 ft, PCN: 42 R/B/W/T |
| 3 | Remarks | Max. Wingspan TWY: 39 ft |

EHVK AD 2.9 Surface movement guidance and control system and markings

| | |
|--------------------------|---------|
| According to STANAG 3158 | |
| 1 | Remarks |
| | Nil |

EHVK AD 2.10 Aerodrome obstacles

Obstacles along RWYs and TWYs do not confirm to standard obstacle clearance requirements. See Aerodrome Chart.

EHVK AD 2.11 Meteorological information provided

| | | |
|---|--|---|
| 1 | Associated MET Office | Volkel |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHVK 0413-278047 or mail VKL.Meteo@mindef.nl Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHVK AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|--|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | 24R: 30 R/B/W/T 06L: 30 R/B/W/T 24L: 27 R/B/W/T 06R: 27 R/B/W/T |

EHVK AD 2.13 Declared distances

| RWY | TORA | TODA | ASDA | LDA | RMK |
|-----|------|------|------|------|-------------------------------|
| 24R | 9922 | 9922 | 9922 | 9498 | |
| | 9479 | 9479 | 9479 | NA | Take-off from intersection A |
| | 8307 | 8307 | 8307 | NA | Take-off from intersection B |
| | 7631 | 7631 | 7631 | NA | Take-off from intersection C |
| | 6787 | 6787 | 6787 | NA | Take-off from intersection D |
| | 5500 | 5500 | 5500 | NA | Take-off from intersection E |
| 06L | 9922 | 9922 | 9922 | 9500 | |
| | 9481 | 9481 | 9481 | NA | Take-off from intersection H |
| | 8976 | 8976 | 8976 | NA | Take-off from intersection G |
| | 6851 | 6851 | 6851 | NA | Take-off from intersection F |
| | 4776 | 4776 | 4776 | NA | Take-off from intersection E |
| 24L | 9931 | 9931 | 9931 | 9487 | |
| | 9484 | 9484 | 9484 | NA | Take-off from intersection AP |
| | 8314 | 8314 | 8314 | NA | Take-off from intersection BP |
| | 6897 | 6897 | 6897 | NA | Take-off from intersection DP |
| | 5486 | 5486 | 5486 | NA | Take-off from intersection EP |
| 06R | 9931 | 9931 | 9931 | 9485 | |
| | 9483 | 9483 | 9483 | NA | Take-off from intersection HP |
| | 6751 | 6751 | 6751 | NA | Take-off from intersection FP |
| | 4649 | 4649 | 4649 | NA | Take-off from intersection EP |

EHVK AD 2.14 Approach and runway lighting

| According STANAG 3316 | | |
|-----------------------|-------------------|--|
| 1 | Approach lighting | RWY 24R: CAT I. 852 m RWY 06L: CAT I. 880 m RWY 24L: SALS. 423 m RWY 06R: SALS. 420 m |
| 2 | RWY lighting | VCL, VHI |
| 3 | PAPI | Situated on the left side of all RWYs |
| 4 | Remarks | Nil |

EHVK AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|-----------------------------------|
| 1 | LDI | Nil |
| 2 | TWY edge lighting | VB |
| 3 | Emergency RWY lighting | Nil |
| 4 | Emergency TWY edge lighting | Retroreflective markers |
| 5 | Secondary power supply/switch-over | AVBL, switch over time 15 seconds |
| 6 | Remarks | Nil |

EHVK AD 2.16 Helicopter landing area

| | | |
|---|----------|---|
| 1 | Location | Westside of the AD, between TWY and RWY, north of the beginning of RWY 06L. See Aerodrome Chart |
| 2 | Marking | Daylight marking |
| 3 | Lighting | Yes |
| 4 | Remarks | Nil |

EHVK AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|--|
| 1 | Designation and lateral limits | Volkel control zone 51°38'52.86"N 005°23'22.88"E; 51°45'05.93"N 005°33'24.21"E; along clockwise arc (radius 8 NM, centre 51°39'25.95"N 005°42'28.17"E) to 51°33'45.27"N 005°51'29.87"E; 51°27'33.73"N 005°41'28.57"E; to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Volkel TWR. English Outside HO DUTCH MIL INFO FREQ 132.350 MHZ. |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHVK AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|--|-------|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Volkel Tower | 136.080 ^{*)} 122.100 291.100 ^{*)} 257.800 | HO | *) Primary FREQ Radar equipped |
| GND CTL | Volkel Ground | 386.775 | HO | |
| APP | RAPCON South | 123.180 ^{*)} 122.100 388.525 ^{*)} | HO | |
| RADAR | Volkel Arrival | 122.100 291.200 | HO | |

EHVK AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|----------------------|-----|------------------|-------|---------------------------------|--------------------|---------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| DME 24R | VLO | CH 44Y | HO | 51°39'46.53"N 005°43'12.18"E | | |
| ILS 24R LOCALIZER | VLO | 110.750 | HO | 51°38'57.80"N 005°41'15.89"E | | |
| GP 24R | | 330.050 | HO | 51°39'46.53"N 005°43'12.18"E | | |
| DME 06L | VLZ | CH 44Y | HO | 51°39'04.57"N 005°41'45.19"E | | |
| ILS 06L LOCALIZER | VLZ | 110.750 | HO | 51°39'53.89"N 005°43'39.91"E | | |
| GP 06L | | 330.050 | HO | 51°39'04.57"N 005°41'45.19"E | | |
| TACAN | VKL | CH 20X | H24 | 51°39'19.55"N 005°42'25.12"E | 200 NM/60000 ft | FREQ pro- tected |

EHVK AD 2.20 Local traffic regulations

Glider- and Light ACFT flying

Gliderflying outside OPR HR SR/SS.

EHVK AD 2.21 Noise abatement procedures

Noise abatement procedures are included in the flight procedures.

EHVK AD 2.22 Flight procedures

IFR procedures

The IAP and SID procedures are established in accordance STANAG 3759 and AATCP-1.

VFR Departure procedures

JET AIRCRAFT.

Runway 24: Leaving procedures are standard to the north. Standard leaving altitude is 2000 ft AMSL. Stay clear of the village of Volkel. Turn to the north-west and proceed between Uden and Veghel. Leaving procedures following a route between Airbase Volkel and Uden is prohibited.

Runway 06: Leaving procedures are standard to the North. Standard leaving altitude is 2000 ft AMSL. Do not turn to the north before 1,5 DME TACAN. Stay clear of the villages of Zeeland and Mill.

Note: Deviation from the above mentioned procedures i.e. leaving direction or altitude only after permission from TWR.

HELICOPTERS.

As directed by TWR.

CONVENTIONAL AIRCRAFT.

As directed by TWR.

VFR ARRIVAL PROCEDURES

JET AIRCRAFT.

Overhead Pattern: Initial points (IP) are approximately 3 NM from threshold, just north of the extended centerlines. IP's shall be joined from the north at 2500 ft AMSL. Joining from the south only after permission from TWR. IP shall be joined at 2000 ft AMSL. The break shall be executed to the south: a left-hand break for runway 24, a right-hand break for runway 06, at 1500 ft AMSL.

Closed-pattern: Rejoining downwind only after permission from TWR. Aircraft shall not exceed 1000 ft AMSL until clear of airfield boundaries, in order to stay clear of traffic on the break. Aircraft shall proceed to the end of the runway before turning to downwind in order to avoid Odiliapeel.

Straight-in approaches: Only allowed after permission from TWR. Aircraft shall report 8 NM final (Cuijk or Veghel) at 1500 ft AMSL.

HELICOPTERS.

Standard helicopter approach is from the north at 500 ft AMSL. Populated areas shall be avoided. For landing the helicopter square shall be used or as directed by TWR.

CONVENTIONAL ACFT.

Conventional Pattern: Conventional traffic should join from the north at 1000 ft AMSL.

Downwind is on the north side of the runway or as directed by TWR.

Straight-in approaches: Only allowed after permission from Volkel TWR. Aircraft shall report 8 NM final (CUIJK or VEGHEL) at 1500 ft AMSL.

WARNING

Avoid Reek Area (EHR 62)(demolition of explosives) position
51°43'42.00"N 005°41'33.00"E, radius 1 NM altitude 1000 ft AMSL.
See also AIP Netherlands ENR 5.1

EHVK AD 2.23 Additional information

AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.

Tel: +31(0)20 4062840

Tel: +31(0)20 4062841

E-mail: aocs.fdns@mindef.nl

AFTN: EHMCZPZX

available H24

PPR 24 HRS: for Prior Permission Request contact:

Operational and Co-ordination Centre

Tel: +31(0)413 278001/8002

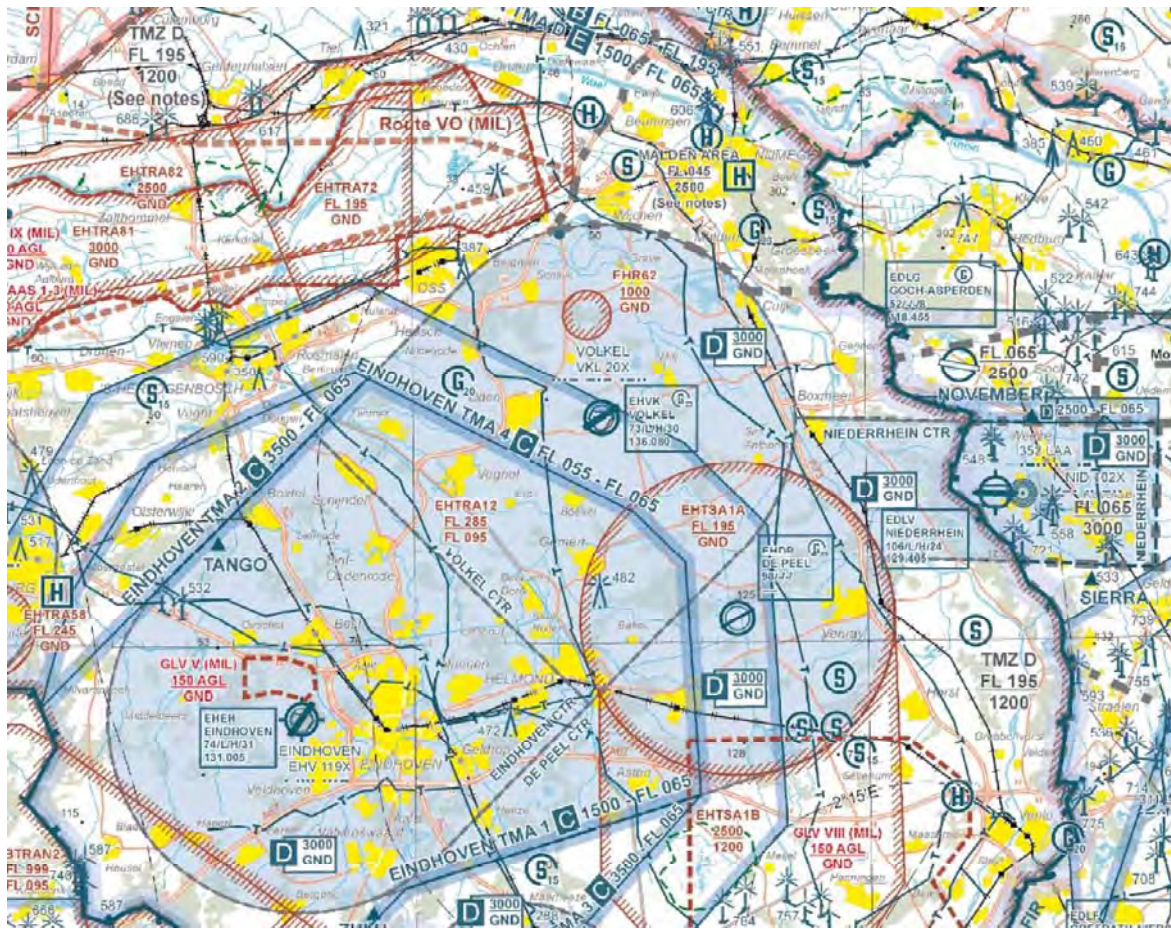
Fax: +31(0)413 276558

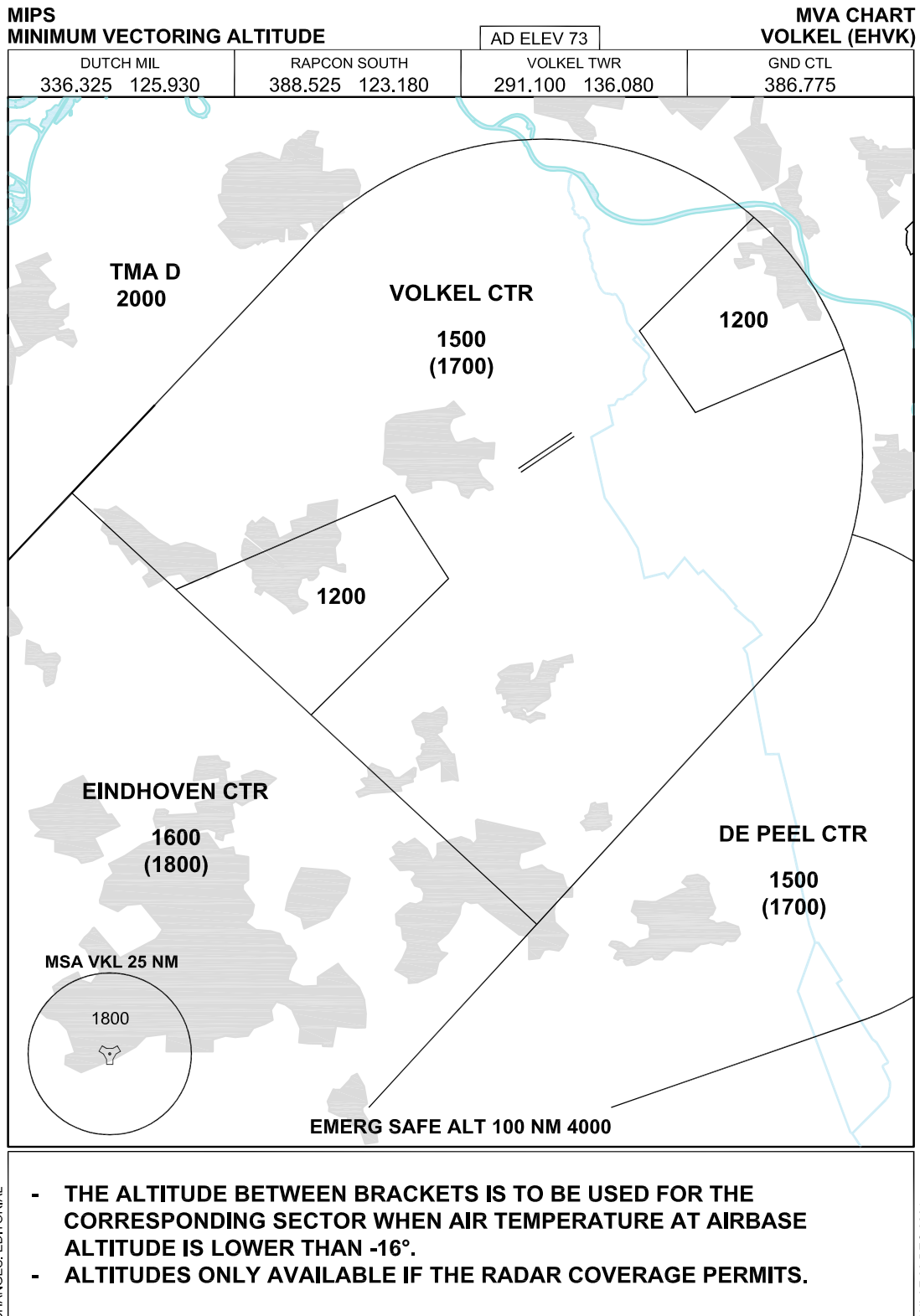
E-mail: vkl.oc.ops@mindef.nl

EHVK AD 2.24 Charts related to an aerodrome

| | |
|--|--------------|
| Aerodrome Chart | EHVK AD 2-9 |
| Local map | EHVK AD 2-10 |
| MVA chart | EHVK AD 2-11 |
| Instrument departure chart VK1 | EHVK AD 2-12 |
| Instrument departure chart VK2 | EHVK AD 2-13 |
| Instrument departure chart VK3 | EHVK AD 2-14 |
| Instrument departure chart VK5 | EHVK AD 2-15 |
| Instrument departure chart VK6 | EHVK AD 2-16 |
| Instrument departure chart VK7 | EHVK AD 2-17 |
| Instrument approach chart ILS or LOC RWY 06L | EHVK AD 2-18 |
| Instrument approach chart TACAN RWY 06L/06R | EHVK AD 2-19 |
| Instrument approach chart ILS or LOC RWY 24R | EHVK AD 2-20 |
| Instrument approach chart TACAN RWY 24R/24L | EHVK AD 2-21 |

LOCAL MAP



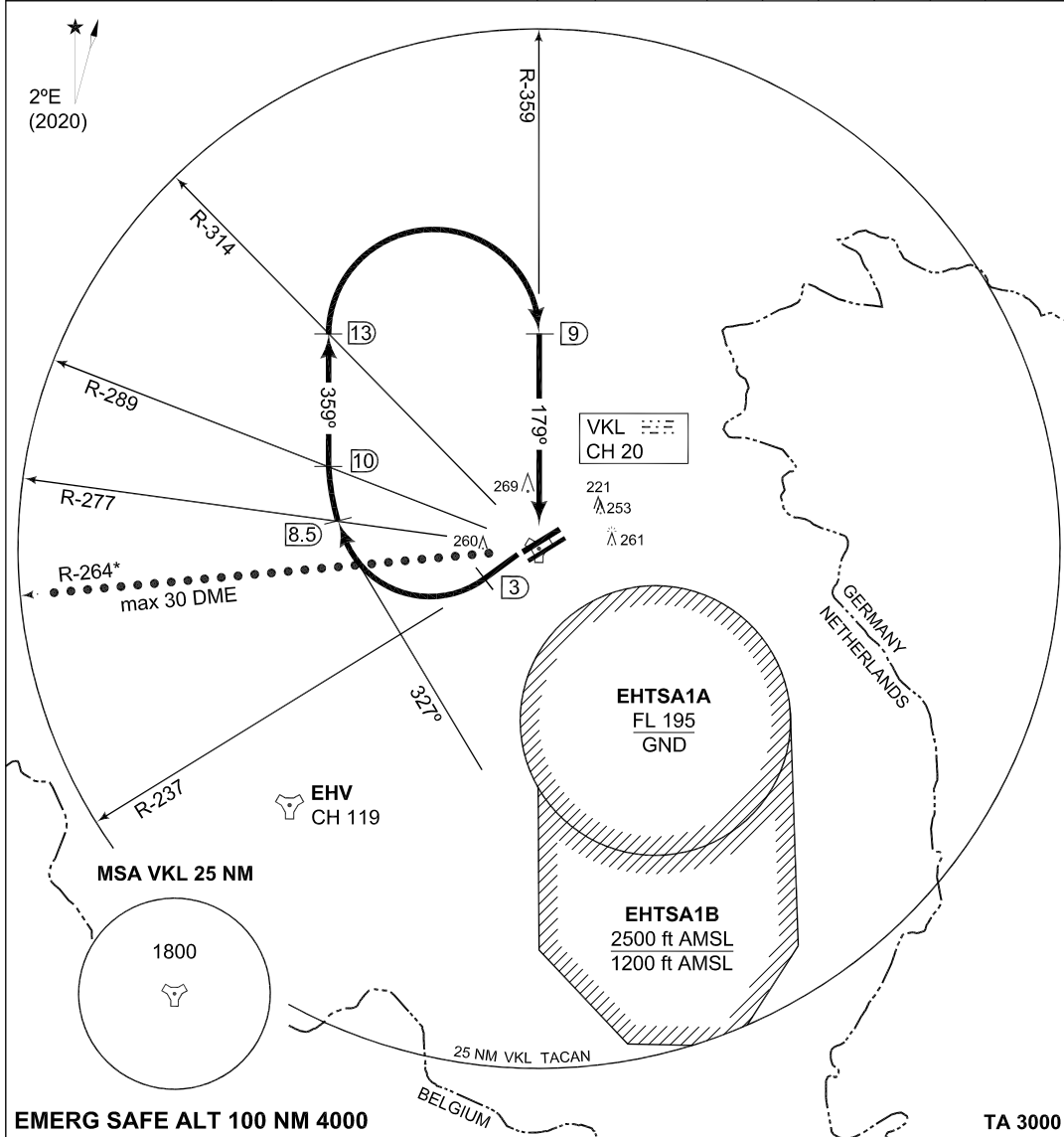


**MIPS
INSTRUMENT DEPARTURE CHART**

**VK1
VOLKEL (EHVK)**

AD ELEV 73

| | | | | | | | | | |
|--------------------|-------------------------------|---------------------------------|-----------|-----|-----|------------------------------|------|------|--------|
| GND CTL 386.775 | VOLKEL TWR 291.100 136.080 | RAPCON SOUTH 388.525 123.180 | | | | DUTCH MIL 336.325 125.930 | | | |
| | | RWY | Knots | 120 | 180 | 240 | 300 | 360 | to |
| | | 24 | V/V (fpm) | 540 | 810 | 1070 | 1340 | 1610 | 400 ft |



VOLKEL 1 (RWY 24)

- Climb straight ahead to 3 DME from Volkel TACAN.
- Turn right, heading 327°.
- When passing R-277 turn right, heading 359°.
- When passing R-314 turn right (remain within 20 DME) to intercept R-359 inbound.

* Afterburner climb not approved until cleared by ATC. When cleared climb on R-264 outbound max. to 30 DME.

NOTE: Departure end crossing height: RWY 24R: 39 ft; RWY 24L: 24 ft.

CHANGES: MAGYAR

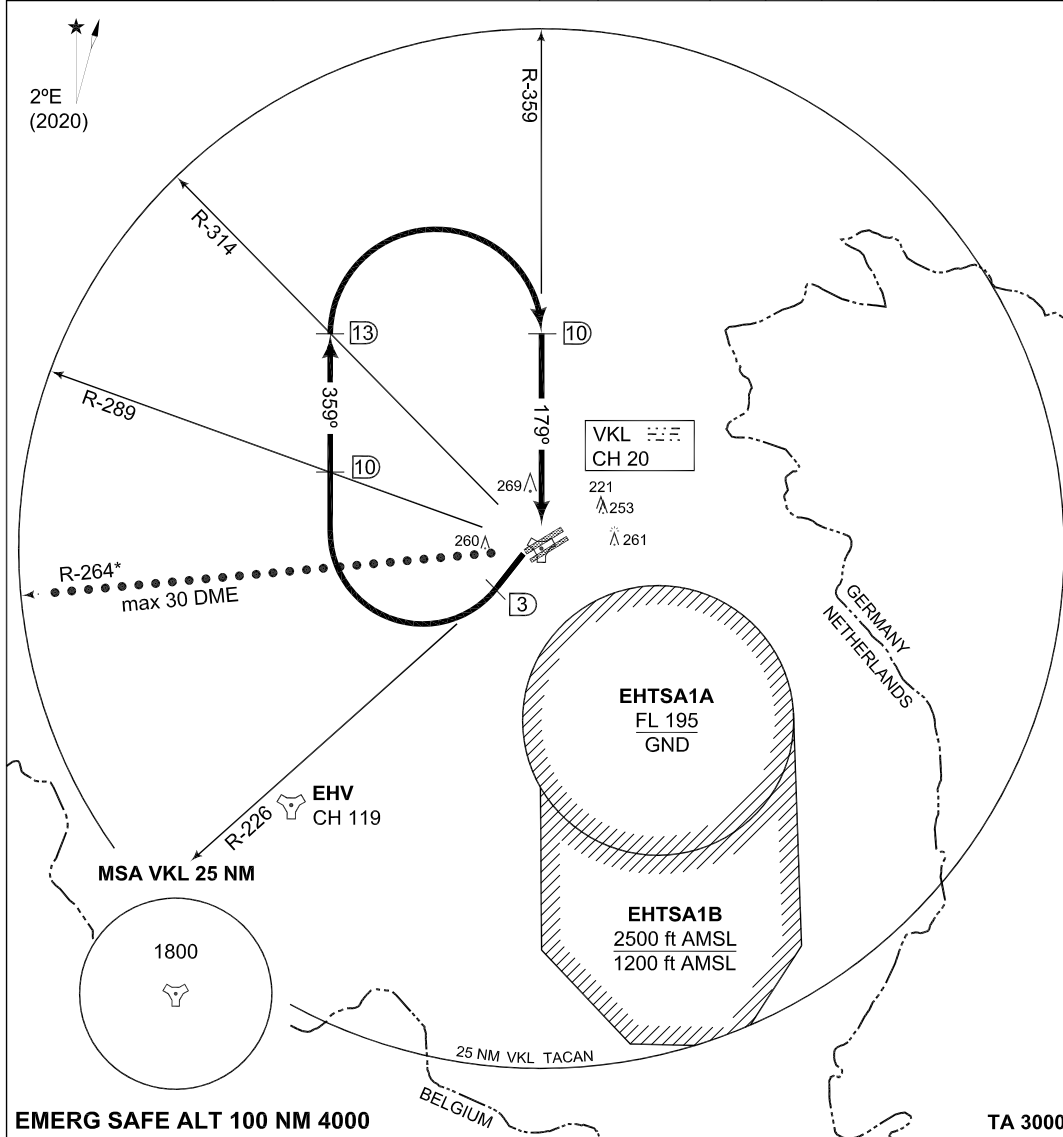
RNLAF 03 DEC 2020

**MIPS
INSTRUMENT DEPARTURE CHART**

AD ELEV 73

**VK2
VOLKEL (EHVK)**

| | | | | | | | | | |
|--------------------|-------------------------------|---------------------------------|-----------|-----|-----|------------------------------|------|------|--------|
| GND CTL 386.775 | VOLKEL TWR 291.100 136.080 | RAPCON SOUTH 388.525 123.180 | | | | DUTCH MIL 336.325 125.930 | | | |
| | | RWY | Knots | 120 | 180 | 240 | 300 | 360 | to |
| | | 24 | V/V (fpm) | 540 | 810 | 1070 | 1340 | 1610 | 400 ft |



VOLKEL 2 (RWY 24)

- Climb and turn left to intercept R-226.
- At 3 DME turn right, heading 359°.
- When passing R-314 turn right (remain within 20 DME) to intercept R-359 inbound.
- * Afterburner climb not approved until cleared by ATC. When cleared climb on R-264 outbound max. to 30 DME.

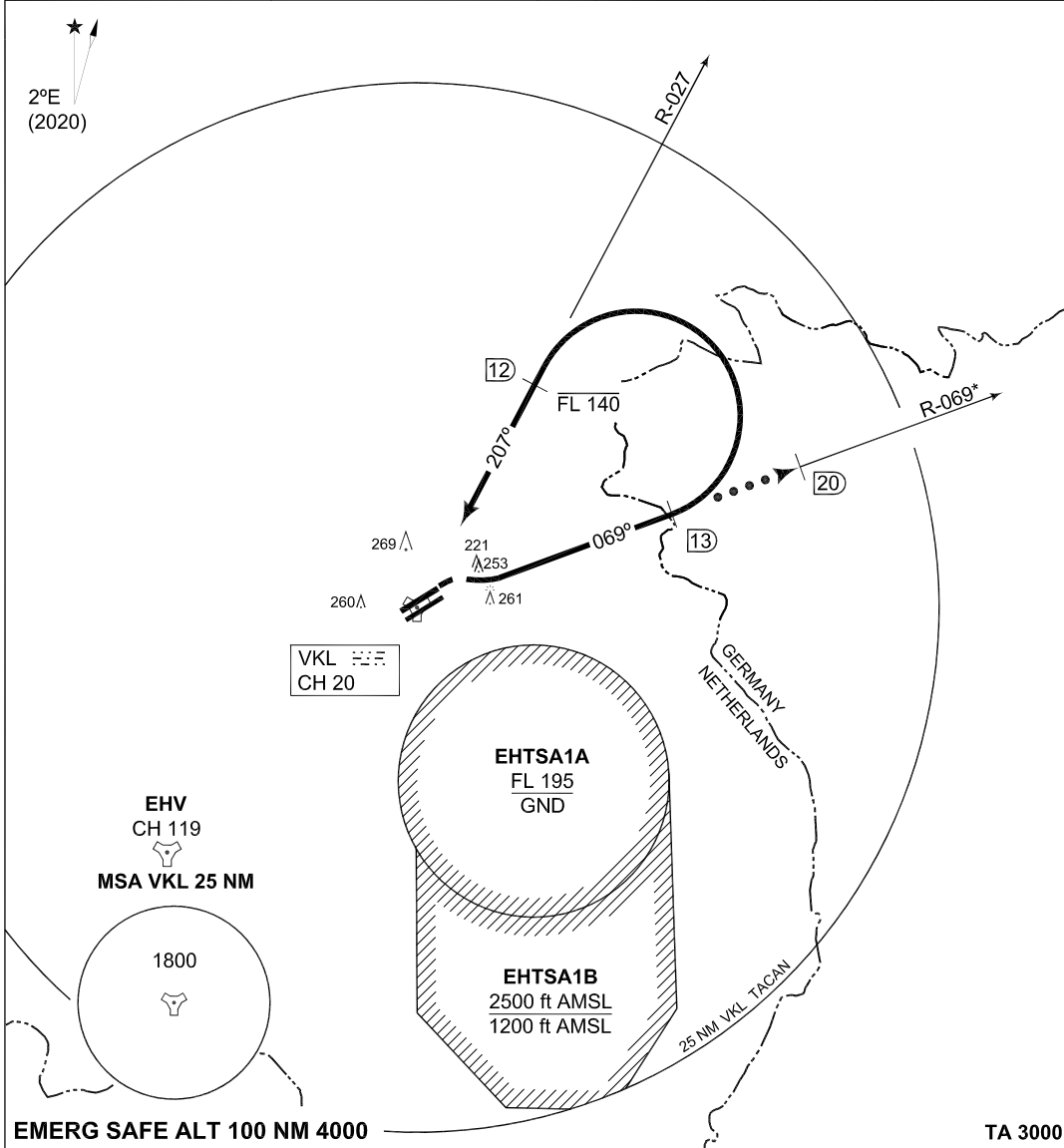
NOTE: Departure end crossing height: RWY 24R: 39 ft; RWY 24L: 24 ft.

CHANGES: MAG/VAR

RNLAf 03 DEC 2020

MIPS INSTRUMENT DEPARTURE CHART **VK3 VOLKEL (EHVK)**

| | | | | | | | | | | |
|--------------------|-------------------------------|------------|-----------|---------------------------------|------|------|------|------------------------------|--------|--|
| GND CTL 386.775 | VOLKEL TWR 291.100 136.080 | AD ELEV 73 | | RAPCON SOUTH 388.525 123.180 | | | | DUTCH MIL 336.325 125.930 | | |
| | | RWY | Knots | 120 | 180 | 240 | 300 | 360 | to | |
| | | 06 | V/V (fpm) | 1440 | 2160 | 2880 | 3600 | 4320 | 100 ft | |

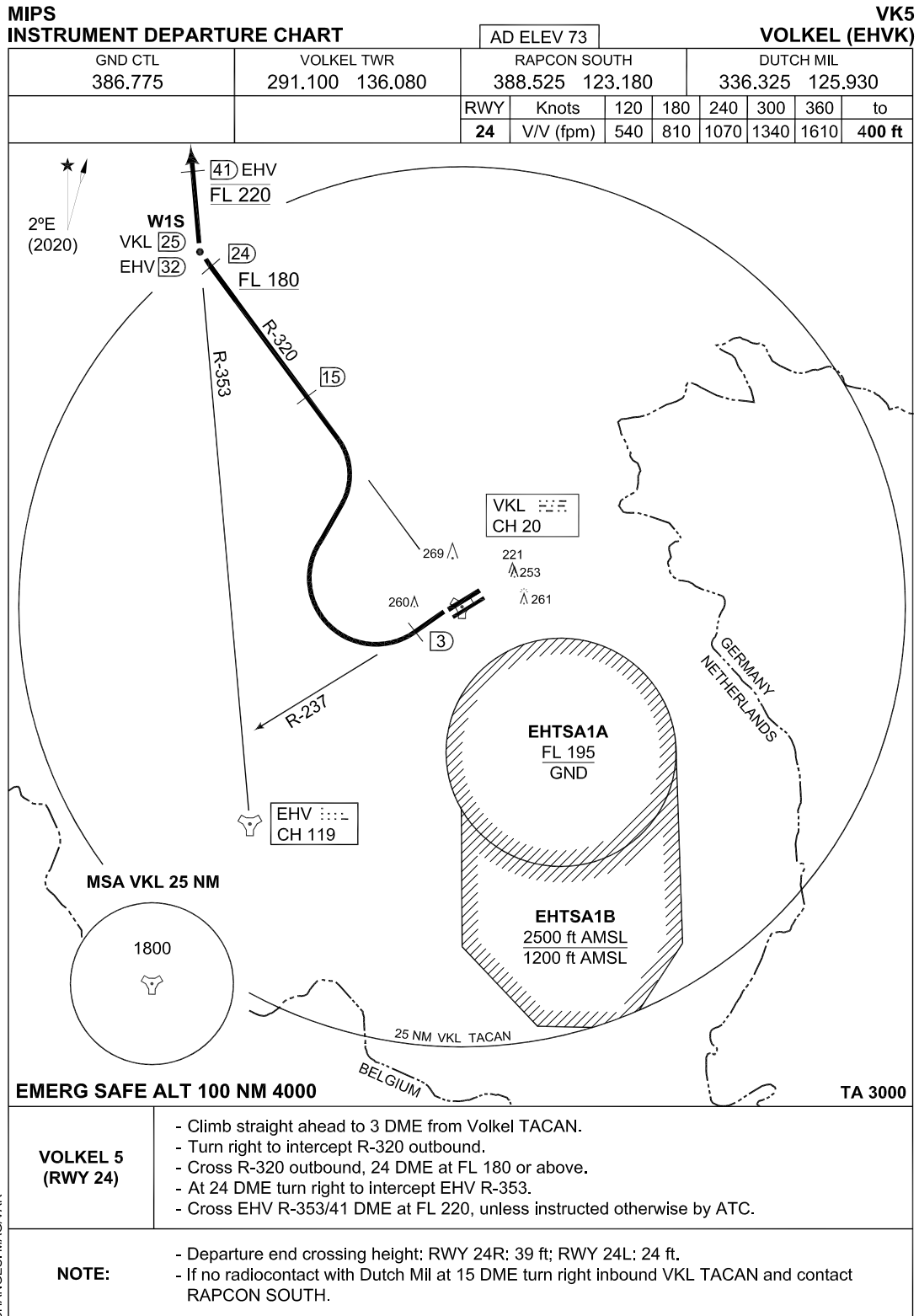


| | |
|--------------------------|--|
| VOLKEL 3 (RWY 06) | <ul style="list-style-type: none"> - Intercept and proceed outbound on R-069 from Volkel TACAN, climb to FL 140. - At 13 DME turn left (remain within 20 DME) to intercept R-027 inbound. - When passing 12 DME on R-027 inbound continue climb. * Afterburner climb not approved until cleared by ATC. When cleared climb on R-069 outbound max. to 20 DME. |
|--------------------------|--|

NOTE: - Departure end crossing height: RWY 06L: 17 ft; RWY 06R: 23 ft.

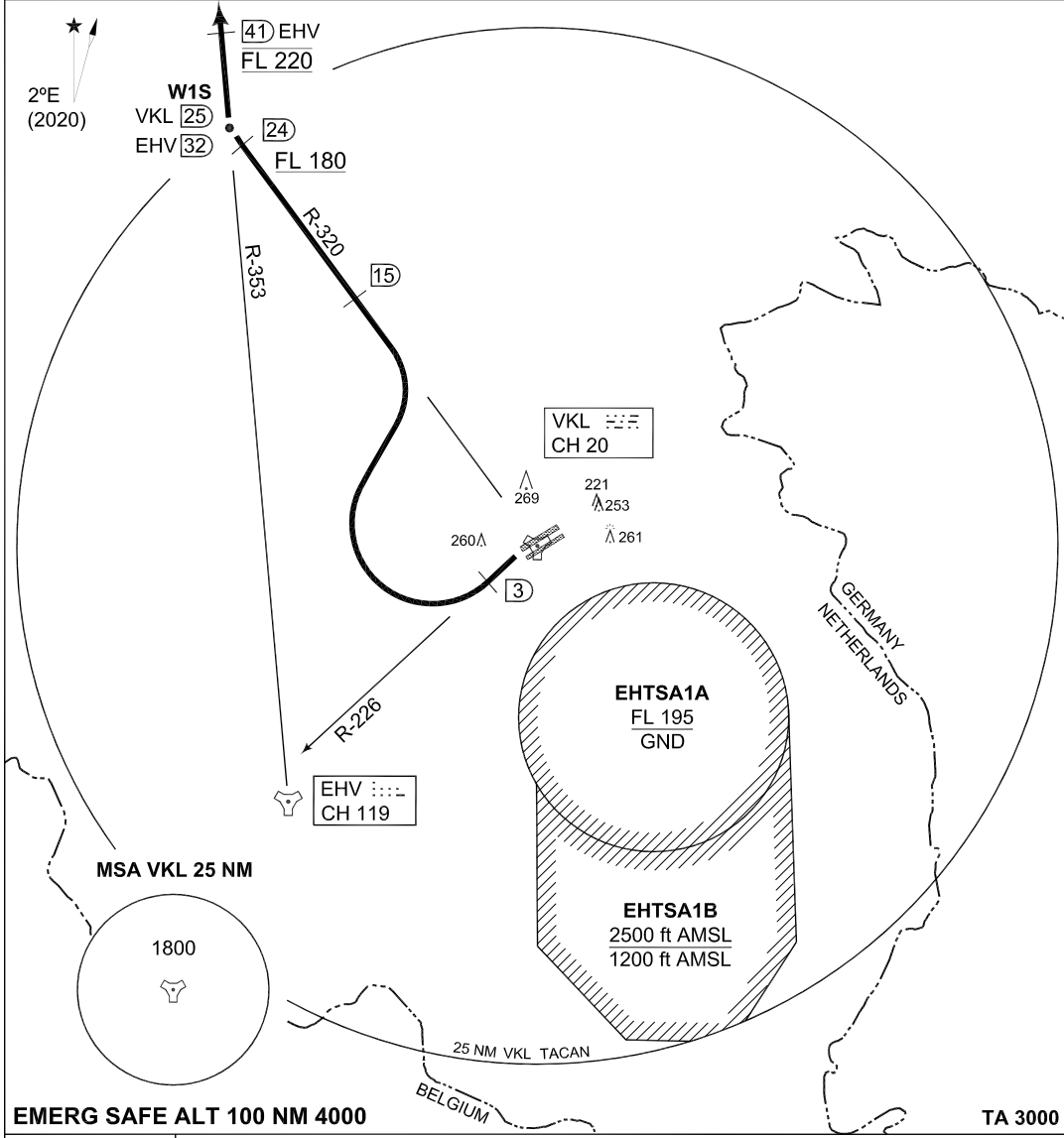
CHANGES: MAG/AR

RNLAF 03 DEC 2020



MIPS INSTRUMENT DEPARTURE CHART **VK6 VOLKEL (EHVK)**

| | | | | | | | | | | | |
|--------------------|-------------------------------|------------|-----------|---------------------------------|-----|------|------|------------------------------|---------------|--|--|
| GND CTL 386.775 | VOLKEL TWR 291.100 136.080 | AD ELEV 73 | | RAPCON SOUTH 388.525 123.180 | | | | DUTCH MIL 336.325 125.930 | | | |
| | | RWY | Knots | 120 | 180 | 240 | 300 | 360 | to | | |
| | | 24 | V/V (fpm) | 540 | 810 | 1070 | 1340 | 1610 | 400 ft | | |



EMERG SAFE ALT 100 NM 4000 **TA 3000**

| | |
|--------------------------|--|
| VOLKEL 6 (RWY 24) | <ul style="list-style-type: none"> - Climb and turn left to intercept R-226. - At 3 DME turn right to intercept R-320 outbound. - Cross R-320 outbound, 24 DME at FL 180 or above. - At 24 DME turn right to intercept EHV R-353. - Cross EHV R-353/41 DME at FL 220, unless instructed otherwise by ATC. |
|--------------------------|--|

NOTES:

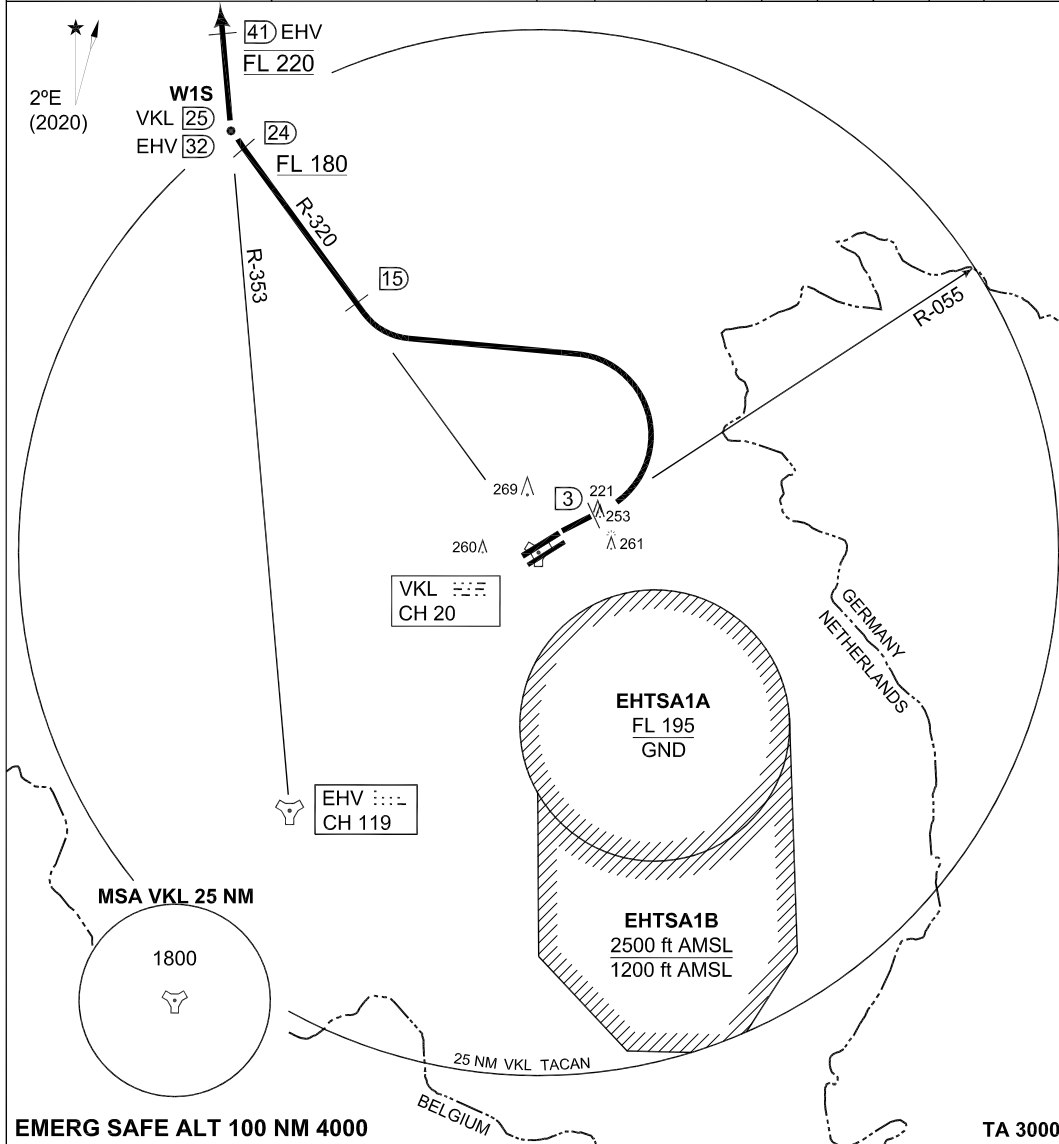
- Departure end crossing height: RWY 24R: 39 ft; RWY 24L: 24 ft.
- If no radiocontact with Dutch Mil at 15 DME turn right inbound VKL TACAN and contact RAPCON SOUTH.

CHANGES: IMAGVAR

RNLAF 03 DEC 2020

MIPS INSTRUMENT DEPARTURE CHART **VK7 VOLKEL (EHVK)**

| | | | |
|--------------------|-------------------------------|---------------------------------|------------------------------|
| GND CTL 386.775 | VOLKEL TWR 291.100 136.080 | RAPCON SOUTH 388.525 123.180 | DUTCH MIL 336.325 125.930 |
| | | AD ELEV 73 | |
| | | RWY 06 | Knots V/V (fpm) |
| | | 120 | 180 |
| | | 240 | 300 |
| | | 360 | 4320 |
| | | to 100 ft | |



| | |
|--------------------------|---|
| VOLKEL 7 (RWY 06) | <ul style="list-style-type: none"> - Climb straight ahead to 3 DME from Volkel TACAN. - Turn left to intercept R-320 outbound. - Cross R-320 outbound, 24 DME at FL 180 or above. - At 24 DME turn right to intercept EHV R-353. - Cross EHV R-353/41 DME at FL 220, unless instructed otherwise by ATC. |
|--------------------------|---|

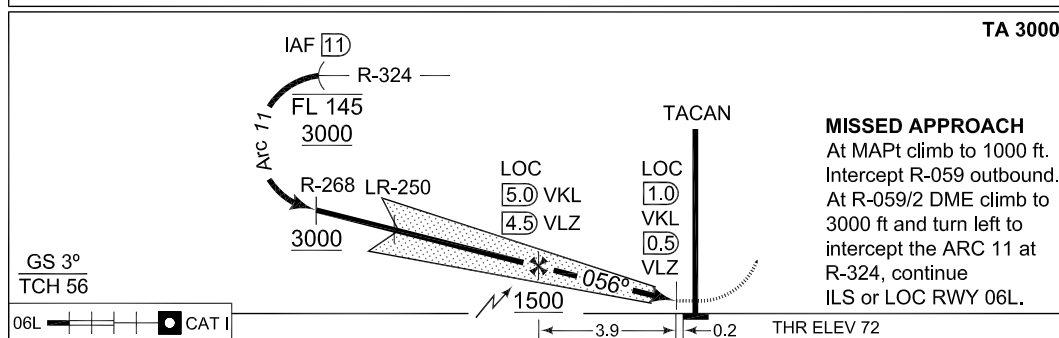
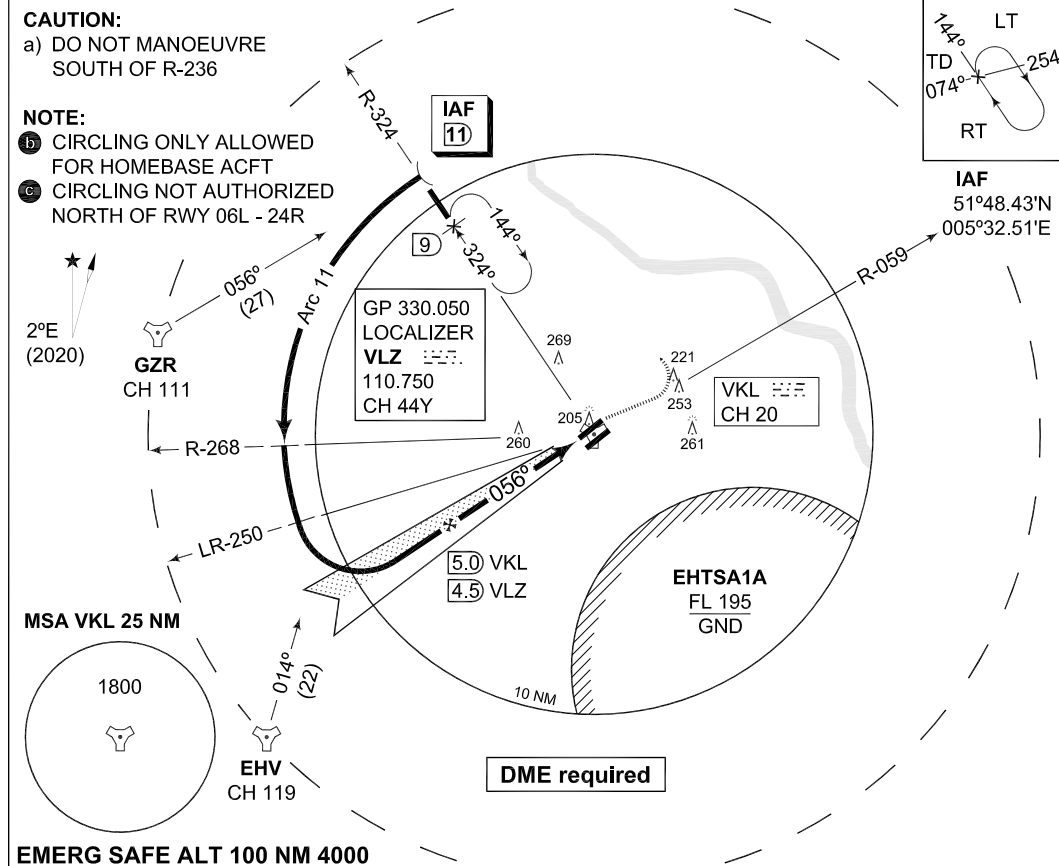
| | |
|--------------|--|
| NOTE: | <ul style="list-style-type: none"> - Departure end crossing height: RWY 06L: 17 ft; RWY 06R: 23 ft. - If no radiocontact with Dutch Mil at 15 DME turn right inbound VKL TACAN and contact RAPCON SOUTH. |
|--------------|--|

CHANGES: EDITORIAL

RNLAF 20 MAY 2021

MIPS INSTRUMENT APPROACH CHART **ILS or LOC RWY 06L VOLKEL (EHVK)**

| | | | |
|--|---------------------------------|-------------------------------|-----------------------------|
| DUTCH MIL 336.325 125.930 | RAPCON SOUTH 388.525 123.180 | VOLKEL TWR 291.100 136.080 | GND CTL 386.775 |
| LOCALIZER / DME VLZ 110.750 / CH 44 Y | APP COURSE 056° | GS INTCP ALT 1500 FT | GS DA THR ELEV 3° 272 72 |
| | | ALS 880 m | LDA 06L-9500 FT |



| | | | | | |
|-----------------|----------------------------------|-------------------------------|-----------------------------------|-------------------------------|-------------------------------|
| CATEGORY | A | B | C | D | E |
| S-ILS 06L | 272-800 200 (200-0.8/1.6) | | | | |
| S-LOC 06L | 370-800 298 (300-0.8/1.6) | | 370-1200 298 (300-1.2/1.6) | | |
| CIRCLING b c | 500-1900 427 (500-1.9) | 570-2800 497 (500-2.8) | 790-3700 717 (800-3.7) | 790-4600 717 (800-4.6) | 890-6500 817 (900-6.5) |

CHANGES: MAGIVAR

MIPS

FNLAf 03 DEC 2020

MIPS INSTRUMENT APPROACH CHART

TACAN RWY 06L/06R VOLKEL (EHVK)

AD ELEV 73

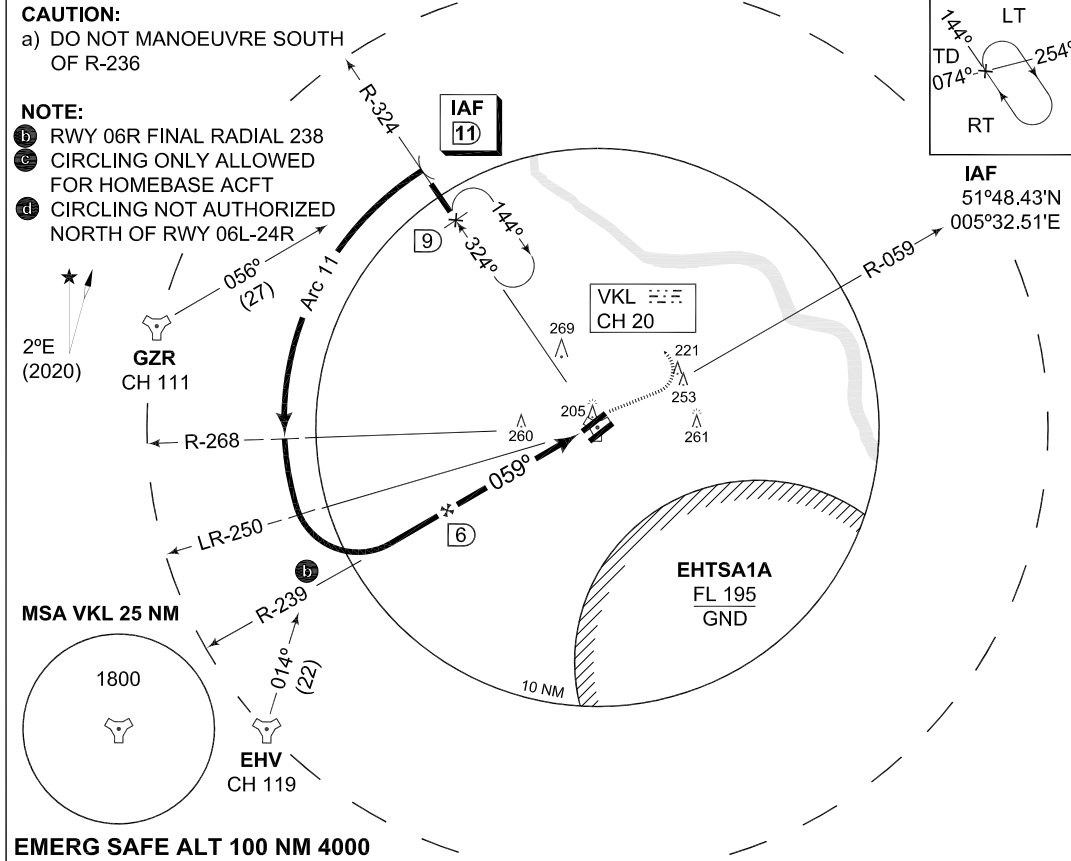
| | | | | | | | |
|------------------------------|--------------------|---------------------------------|------------|-------------------------------|----------------|---------------------------|--------------------------------|
| DUTCH MIL 336.325 125.930 | | RAPCON SOUTH 388.525 123.180 | | VOLKEL TWR 291.100 136.080 | | GND CTL 386.775 | |
| TACAN VKL CH 20 | APP COURSE 059° | FAF ALT 1500 FT | Descent GR | DA 430 | THR ELEV 72 | ALS 06L-880 m/06R-420m | LDA 06L-9500 FT/06R-9485 FT |

CAUTION:

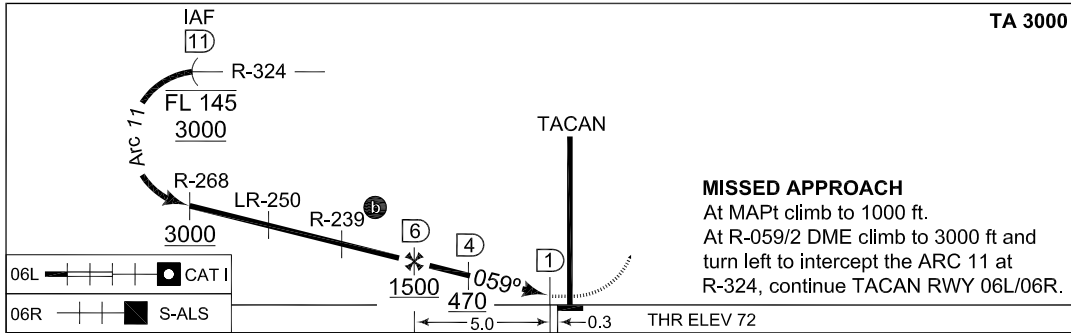
a) DO NOT MANOEUVRE SOUTH OF R-236

NOTE:

- b) RWY 06R FINAL RADIAL 238
- c) CIRCLING ONLY ALLOWED FOR HOMEBASE ACFT
- d) CIRCLING NOT AUTHORIZED NORTH OF RWY 06L-24R



EMERG SAFE ALT 100 NM 4000



| CATEGORY | A | B | C | D | E |
|-----------------|----------------------------|------------------------|----------------------------|----------------------------|------------------------|
| S-TAC 06L | 430-800 358 (400-0.8/1.6) | | 430-1200 358 (400-1.2/1/6) | 430-1200 358 (400-1.2/2.0) | |
| S-TAC 06R | 430-1200 358 (400-1.2/1.6) | | | 430-1600 358 (400-1.6/2.0) | |
| CIRCLING c d | 500-1900 427 (500-1.9) | 570-2800 497 (500-2.8) | 790-3700 717 (800-3.7) | 790-4600 717 (800-4.6) | 890-6500 817 (900-6.5) |

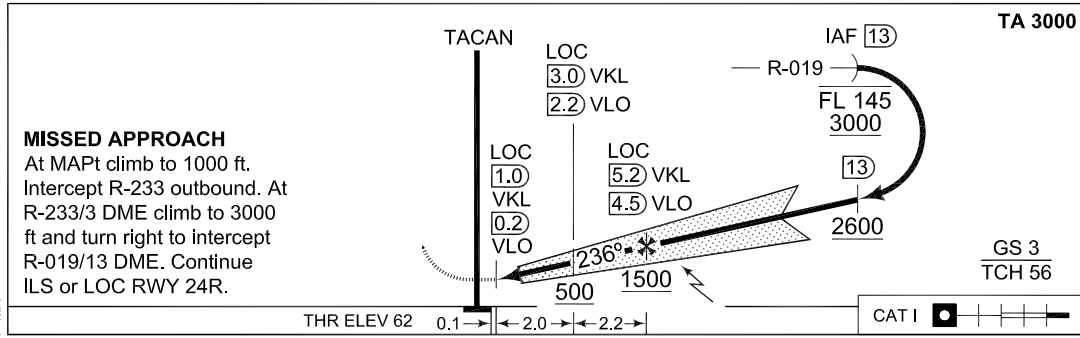
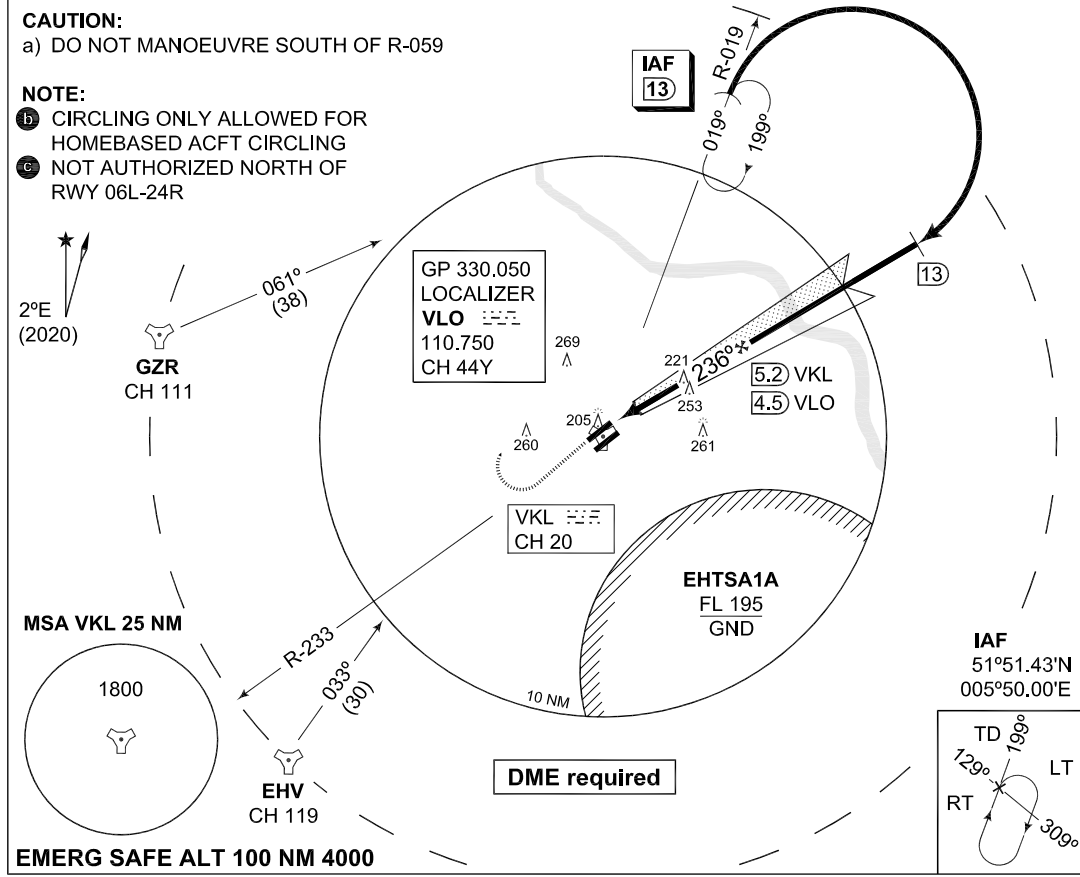
CHANGES: MAGVAR

MIPS

RNIAF 03 DEC 2020

MIPS INSTRUMENT APPROACH CHART **ILS or LOC RWY 24R VOLKEL (EHVK)**

| | | | | | | | |
|--|--------------------|---------------------------------|----------|-------------------------------|----------------|--------------------|--------------------|
| DUTCH MIL 336.325 125.930 | | RAPCON SOUTH 388.525 123.180 | | VOLKEL TWR 291.100 136.080 | | GND CTL 386.775 | |
| LOCALIZER / DME VLO 110.750 / CH 44 Y | APP COURSE 236° | GS INTCP ALT 1500 FT | GS 3° | DA 262 | THR ELEV 62 | ALS 852 m | LDA 24R-9498 FT |



| CHANGES: OPERATING MINIMA | CATEGORY | A | B | C | D | E |
|---------------------------|---------------------|-----------------------------------|--------------------------------|------------------------------------|--------------------------------|------------------------------------|
| MIPS | S-ILS 24R | 262 -800 200 (200-0.8/1.6) | | | | |
| | S-LOC 24R | 440 -800 378 (400-0.8/1.6) | | 440 -1200 378 (400-1.2/1.6) | | 440 -1200 378 (400-1.2/2.0) |
| | CIRCLING (b) (c) | 500 -1900 427 (500-1.9) | 570 -2800 497 (500-2.8) | 790 -3700 717 (800-3.7) | 790 -4600 717 (800-4.6) | 890 -6500 817 (900-6.5) |

MIPS INSTRUMENT APPROACH CHART

TACAN RWY 24R/24L VOLKEL (EHVK)

AD ELEV 73

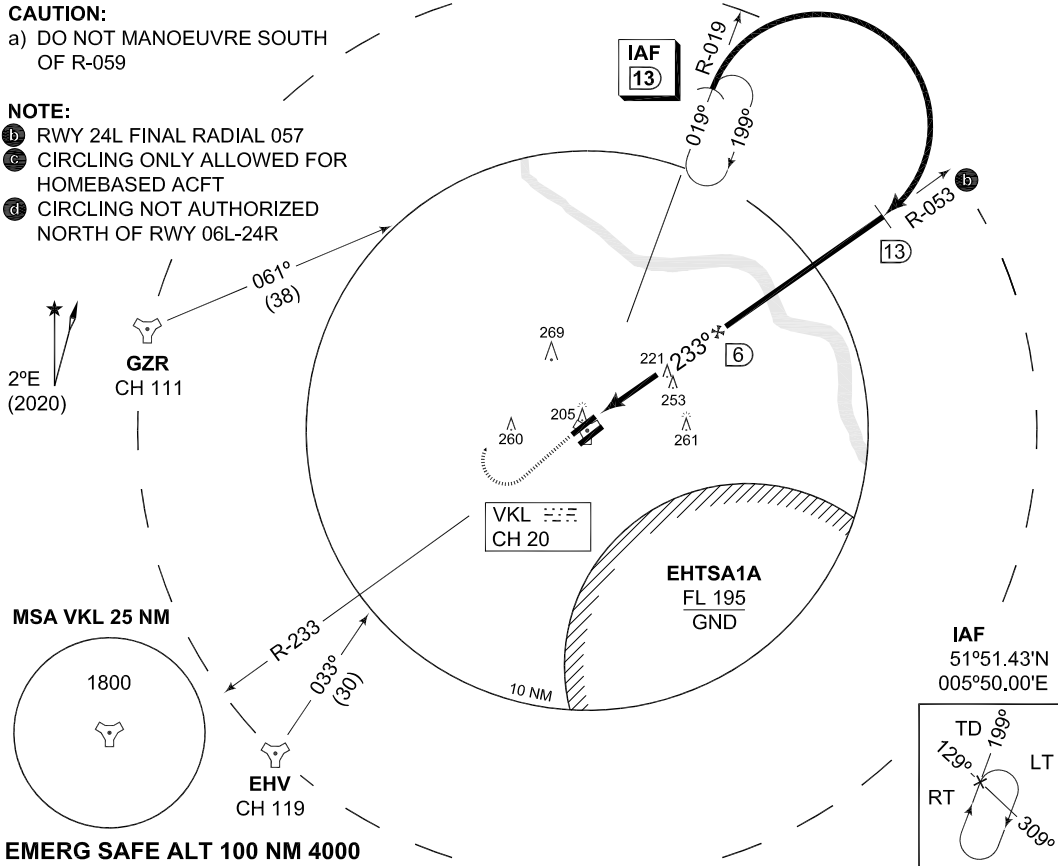
| | | | | | | | |
|------------------------------|--------------------|---------------------------------|------------|-------------------------------|----------------|------------------------------|------------------------------|
| DUTCH MIL 336.325 125.930 | | RAPCON SOUTH 388.525 123.180 | | VOLKEL TWR 291.100 136.080 | | GND CTL 386.775 | |
| TACAN VKL CH 20 | APP COURSE 233° | FAF ALT 1500 FT | Descent GR | DA 440 | THR ELEV 62 | ALS 24R-852 m / 24L-423 m | LDA 24R-9498FT/24L-9487FT |

CAUTION:

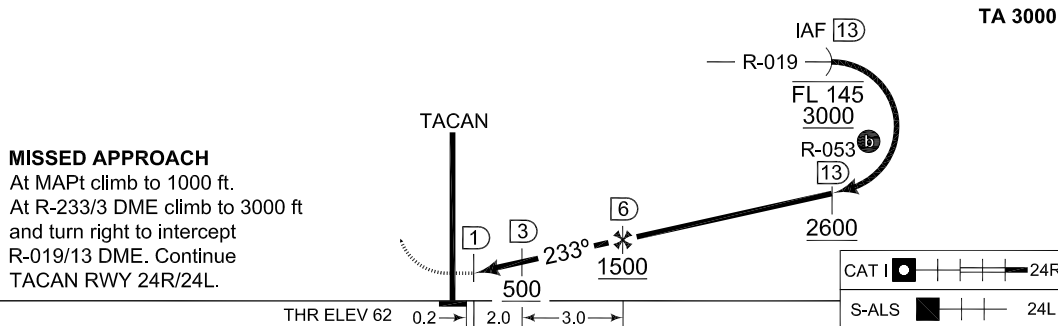
a) DO NOT MANOEUVRE SOUTH OF R-059

NOTE:

- b) RWY 24L FINAL RADIAL 057
- c) CIRCLING ONLY ALLOWED FOR HOMEBASED ACFT
- d) CIRCLING NOT AUTHORIZED NORTH OF RWY 06L-24R



EMERG SAFE ALT 100 NM 4000



| CATEGORY | A | | B | | C | | D | | E | |
|-------------|----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------|--|
| | S-TACAN 24R | 440-800 378 (400-0.8/1.6) | | 440-1200 378 (400-1.2/1.6) | | 440-1200 378 (400-1.2/1.6) | | 440-1600 378 (400-1.6/2.0) | | |
| S-TACAN 24L | 440-1200 378 (400-1.2/1.6) | | 440-1200 378 (400-1.2/1.6) | | 440-1200 378 (400-1.2/1.6) | | 440-1600 378 (400-1.6/2.0) | | | |
| CIRCLING | 500-1900 427 (500-1.9) | | 570-2800 497 (500-2.8) | | 790-3700 717 (800-3.7) | | 790-4600 717 (800-4.6) | | 890-6500 817 (900-6.5) | |

CHANGES: OPERATING MINIMA

MIPS

RNLAF 09 SEP 2021



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PART 3 – AERODROMES (AD)

AD 2.

**AD 2. AERODROMES
WOENS DRECHT**

WOENS DRECHT

EHWO AD 2.1 Aerodrome location indicator and name

EHWO - Woensdrecht

EHWO AD 2.2 Geographical and administrative data

| | | |
|---|--|---|
| 1 | ARP | 51°26'56.40"N 004°20'31.71"E |
| 2 | Direction and distance from city | 150° MAG/3.5 NM BERGEN OP ZOOM |
| 3 | Elevation/Reference temperature | + 63 ft AMSL/21.0° C (AUG) |
| 4 | MAG VAR/Annual change | 1°31'E (JAN 2020)/11'E |
| 5 | AD operating authority Postal address Visitors' address Telephone E-mail AFTN | RNLAF Vliegbasis Woensdrecht MPC 91A P.O. Box 8762 4820 BB Breda Kooiweg 40 4631 SZ Hoogerheide +31(0)164 692365 kmsl.lvl@mindef.nl EHWOZTZX |
| 6 | Types of TFC permitted (IFR/VFR) | IFR/VFR |
| 7 | Remarks | Nil |

EHWO AD 2.3 Operational hours

| | | |
|----|----------------------------|---|
| 1 | AD OPR HR | MON/FRI 0800/1545 (0700/1445) |
| 2 | Customs and immigration | 1 HR PN |
| 3 | Health and sanitation | HO |
| 4 | AIS Briefing office | See AD 2.23 |
| 5 | ATS Reporting Office (ARO) | See AD 2.23 |
| 6 | MET Briefing Office | HO |
| 7 | ATS | HO |
| 8 | Fuelling | HO |
| 9 | Handling | Limited, check Operations and Coordination Centre for status. See AD 2.23 |
| 10 | Security | HO |
| 11 | De-icing | Not AVBL |
| 12 | Remarks | PPR 24 HRS See AD 2.23 |

EHWO AD 2.4 Handling services and facilities

| | | |
|---|--------------------------------|------------------|
| 1 | Cargo-handling facilities | No |
| 2 | Fuel/oil types | F-34 |
| 3 | Fuelling facilities/capacity | O/R |
| 4 | Oxygen | LOX |
| 5 | De-icing facilities/type | No |
| 6 | Starting units | DSA 150, DSA 600 |
| 7 | Hangar space for visiting ACFT | No |
| 8 | Repair facilities | No |
| 9 | Remarks | Nil |

EHWO AD 2.5 Passenger facilities

| | | |
|---|--------------------|---|
| 1 | Remain overnight | AVBL O/R |
| 2 | Medical facilities | First Aid treatment and first responders on site. Hospital in Bergen op Zoom. |
| 3 | Remarks | Nil |

EHWO AD 2.6 Rescue and fire fighting services

| | | |
|---|-------------------------------|------------|
| 1 | AD category for fire fighting | NATO CAT 7 |
| 2 | Remarks | Nil |

EHWO AD 2.7 Seasonal availability - clearing

| | | |
|---|------------------------|-------------|
| 1 | Seasonal availability | All seasons |
| 2 | Snow removal equipment | Yes |
| 3 | Remarks | Nil |

EHWO AD 2.8 Aprons, taxiways and check locations/positions data

| | | |
|---|---------------------------------|--|
| 1 | Apron surface and strength | Visitors apron: concrete , PCN 77 R/C/W/T EMVO apron: tarmac, PCN 62 F/A/W/T LCW apron: concrete, PCN 47 R/C/W/T |
| 2 | TWY width, surface and strength | TWY A: Width 15 m, tarmac, PCN 38 F/A/W/T TWY B: Width 22,5 m, tarmac/concrete, PCN 34 R/C/W/T TWY B1: Width 15 m, tarmac/concrete, PCN 48 R/C/W/T TWY B2: Width 11,9 m, tarmac/concrete, PCN 10 F/A/W/T TWY B3: Width 12 m, concrete, PCN 61 R/C/W/T TWY B4: Width 11,9 m, concrete, PCN 40 R/C/W/T TWY C: Width 14,8 m, tarmac, PCN 44 F/A/W/T TWY C1: Width 20 m, concrete, PCN 51 R/C/W/T TWY C2: Width 12 m, tarmac/concrete, PCN 32 R/C/W/T TWY C3: Width 12 m, tarmac/concrete, PCN 26 F/A/W/T TWY C4: Width 20 m, concrete, PCN 53 R/C/W/T TWY D: Width 12 m, tarmac/concrete, PCN 49 F/A/W/T |
| 3 | Remarks | TWY marking is general and not based on any ACFT type. Use caution when taxiing on intersections TWY B 2: only to be used by ACFT with ACN 10 or less TWY C: obstacle TACAN building 24,5 m from TWY centreline Compass swing area: concrete, PCN 34 R/C/W/T |

EHWO AD 2.9 Surface movement guidance and control system and markings

| | | |
|-----------------------|---------|-----|
| According STANAG 3158 | | |
| 1 | Remarks | Nil |

EHWO AD 2.10 Aerodrome obstacles

| |
|---------------------|
| See Aerodrome Chart |
|---------------------|

EHWO AD 2.11 Meteorological information provided

| | | |
|---|---|---|
| 1 | Associated MET Office | Woensdrecht |
| 2 | Hours of service MET Office outside hours | HO Joint Meteorological Group |
| 3 | Office responsible for TAF preparation Periods of validity | Joint Meteorological Group 12 hrs |
| 4 | Type of landing forecast Interval of issuance | TREND Every 30 min during opr hrs |
| 5 | Flight documentation Language(s) used | Reports, forecasts and charts. English and Dutch. |
| 6 | Charts and other information AVBL for briefing or consultation | GSA, GSP, LGF, Cross section, Upperair forecasts, NVG, Radar- and Satellite Images |
| 7 | Supplementary equipment AVBL for providing information | PBS (pilot briefing system) |
| 8 | Remarks | Tel EHWO 0164-692268 Tel JMG 0164-693111 or mail JMG.WX.PLANNING@mindef.nl |

EHWO AD 2.12 Runway physical characteristics

| | | |
|---|-----------------------|------------------------------------|
| 1 | RWY dimensions/a-gear | See Aerodrome Chart. Values in ft. |
| 2 | RWY surface | Tarmac/concrete |
| 3 | RWY strength | PCN: 51 R/C/W/T |

EHWO AD 2.13 Declared distances

| |
|------------------------------------|
| See Aerodrome Chart. Values in ft. |
|------------------------------------|

EHWO AD 2.14 Approach and runway lighting

| | | |
|-----------------------|-------------------|---|
| According STANAG 3316 | | |
| 1 | Approach lighting | RWY 25: CAT I. 900 m RWY 07: S-ALS 420 m |
| 2 | RWY lighting | RWY 07 VHI, RWY 25 VCL/VHI |
| 3 | PAPI | Situated on left side of both RWYs |
| 4 | Remarks | Nil |

EHWO AD 2.15 Other lighting, secondary power supply

| | | |
|---|------------------------------------|---|
| 1 | LDI | Not lighted |
| 2 | TWY edge lighting | AVBL |
| 3 | Emergency RWY lighting | No |
| 4 | Emergency TWY edge lighting | No |
| 5 | Secondary power supply/switch-over | AVBL, switch over time 15 seconds |
| 6 | Remarks | No TWY edge lighting along TWY Northern taxiway. Edge markers along RWY will be installed when heavy snowfall is expected. Edge markers along TWY will be installed when heavy snowfall is expected and deemed necessary. |

EHWO AD 2.16 Helicopter landing area

| | | |
|---|----------|---|
| 1 | Location | 51°26'46.52"N 004°20'15.47"E and 600 m south of TWR. See Aerodrome Chart |
| 2 | Marking | Daylight marking |
| 3 | Lighting | No |
| 4 | Remarks | Nil |

EHWO AD 2.17 Air traffic services airspace

| | | |
|---|-----------------------------------|---|
| 1 | Designation and lateral limits | Woensdrecht control zone 51°20'19.14"N 004°13'22.74"E; along clockwise arc (radius 8 NM, centre 51°26'56.40"N 004°20'31.71"E) to 51°25'38.09"N 004°33'08.47"E; along Dutch-Belgian border to point of origin. |
| 2 | Vertical limits | GND to 3000 ft AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Contact initially Woensdrecht TWR. English Outside HO DUTCH MIL INFO FREQ 132.350 MHZ. |
| 5 | Transition altitude | IFR: 3000 ft AMSL; VFR: 3500 ft AMSL |
| 6 | Remarks | Nil |

EHWO AD 2.18 Air traffic services communication facilities

| STATION/ SERVICE | CALL SIGN OR IDENTIFICATION | FREQUENCY MHz | HOURS | REMARKS |
|---------------------|--------------------------------|--|-------|--|
| 1 | 2 | 3 | 4 | 5 |
| | As appropriate | 121.500 243.000 | HO | Emergency FREQ for all services |
| TWR | Woensdrecht Tower | 120.430*) 122.100 339.000*) 257.800 | HO | *) Primary FREQ |
| GND CTL | Woensdrecht Ground | 121.680 356.875 | HO | |
| APP | Rapcon West | 123.580 399.725 | HO | Radar equipped |
| | Woensdrecht Arrival | 123.580 370.650 | HO | Through APP |
| | Woensdrecht Monitor | 128.990 | HO | Nieuw Milligen TMA D1, TMA G1 (extended) Walcheren Area |

EHWO AD 2.19 Radio navigation and landing aids

| FACILITY | ID | CHANNEL FREQ. | HOURS | CO-ORD. | RANGE/ ALTITUDE | REMARKS |
|---------------------|-----|------------------|-------|-----------------------------------|--------------------|---------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| TACAN | WDT | CH 97X | H24 | 51°26'50.64"N 004°20'38.13"E | 40 NM/25000 ft | FREQ protected |
| ILS 25 LOCALIZER | WDO | 108.150 | HO | 51°26'40.78"N 004°19'25.34"E | | |
| ILS 07 LOCALIZER | WDZ | 108.150 | HO | 51°27'13.50"N 004°21'44.40"E | | |
| GLIDEPATH 25 | | 334.550 | HO | 51°27'10.401"N 004°21'13.239"E | | center of central GP antenna |
| DME 25 | WDO | CH 18Y | HO | 51°27'10.401"N 004°21'13.239"E | | center DME antenna |
| GLIDEPATH 07 | | 334.550 | HO | 51°26'43.318"N 004°19'49.587"E | | center of central GP antenna |
| DME 07 | WDZ | CH 18Y | HO | 51°26'43.318"N 004°19'49.587"E | | center DME antenna |

EHWO AD 2.20 Local traffic regulations

Glider- and Light ACFT flying

Glider- and model flying outside OPR HR SR/SS.

EHWO AD 2.21 Noise abatement procedures

To be developed.

EHWO AD 2.22 Flight procedures

IFR procedures

The IAP and SID procedures are established in accordance STANAG 3759 and AATCP-1.

RNP approach RWY 07

| serial number | Path Des ciptor | WPT ident | Fly Over | Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA (°TCH(ft)) | NAV Spec |
|---------------|-----------------|-----------|----------|-------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | UCTOW | - | - | - | - | - | +2000 | - | - | RNAV1 |
| 002 | TF | FESWA | - | 158/(159.2) | - | 5.0 | - | +2000 | - | - | RNAV1 |
| 003 | IF | PAFAZ | - | - | - | - | - | +2000 | - | - | RNAV1 |
| 004 | TF | FESWA | - | 041/(042.3) | - | 5.0 | - | +2000 | - | - | RNAV1 |
| 005 | IF | FESWA | - | - | - | - | - | +2000 | - | - | |
| 006 | TF | WO402 | - | 068/(069.2) | - | 4.3 | - | +2000 | - | - | RNP APCH |
| 007 | TF | THR07 | Y | 068/(069.4) | - | 6 | - | - | - | -3.00/54 | RNP APCH |
| 008 | CF | WO406 | Y | 068/(069.4) | - | 2.7 | - | -1000 | - | - | RNP APCH |
| 009 | DF | UCTOW | - | - | - | - | L | +3000 | - | - | RNP APCH |

FAS data block - RWY 07

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHWO |
| Runway | 07 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E07A |
| LTP/FTP Latitude | 512642.4915N |
| LTP/FTP Longitude | 0041932.5655E |
| LTP/FTP Ellipsoidal Height (metres) | 56.4 |
| FPAP Latitude | 512710.3410N |
| Delta FPAP latitude (seconds) | 27.8495 |
| FPAP longitude | 0042130.9220E |
| Delta FPAP Longitude (seconds) | 118.3565 |
| Threshold Crossing Height | 54.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.00 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output | |
|----------------------|--|
| Data Block | 10 0F 17 08 05 07 00 00 01 37 30 05 77 EE 13 16 AB 3C DB 01 34 16 93 D9 00 A9 9C 03 1C 02 2C 01 64 00 C8 AF 24 80 FC 79 |
| Calculated CRC Value | 2480FC79 |
| Supplied CRC Value | 2480FC79 |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|------|
| ICAO Code | WO |
| LTP/FTP Orthometric Height (metres) | 11.9 |

RNP approach RWY 25

| serial number | Path Descriptor | WPT ident | Fly Over | Course-Mag°/(T°) | Recom navaid | Dist nm | turn | Altitude (ft AMSL) | Speed (KIAS) | VPA (°TCH(ft)) | NAV Spec |
|---------------|-----------------|-----------|----------|------------------|--------------|---------|------|--------------------|--------------|----------------|----------|
| 001 | IF | BEXWI | - | - | - | - | - | +2000 | - | - | RNAV1 |
| 002 | TF | UPJEF | - | 081/(082.4) | - | 5.0 | - | +2000 | - | - | RNAV1 |
| 003 | TF | NIRUC | - | 158/(159.6) | - | 5.0 | - | +2000 | - | - | RNAV1 |
| 004 | IF | VUZCO | - | - | - | - | - | +2000 | - | - | RNAV1 |
| 005 | TF | NIRUC | - | 248/(249.5) | - | 5.0 | - | +2000 | - | - | RNAV1 |
| 006 | IF | NIRUC | - | - | - | - | - | +2000 | - | - | - |
| 007 | TF | WO412 | - | 248/(249.5) | - | 4.3 | - | +2000 | - | - | RNP APCH |
| 008 | TF | THR25 | Y | 248/(249.4) | - | 5.9 | - | | - | -3.00/54 | RNP APCH |
| 009 | CF | WO416 | Y | 248/(249.3) | - | 2.6 | - | -1000 | - | - | RNP APCH |
| 010 | DF | WO417 | Y | 248/(249.3) | - | 3 | - | | - | - | RNP APCH |
| 011 | DF | WO418 | - | - | - | - | R | +3000 | - | - | RNP APCH |
| 012 | TF | BEXWI | - | 081/(082.4) | - | 8.8 | - | +3000 | - | - | RNP APCH |

FAS data block RWY 25

| Input data | |
|-------------------------------------|---------------|
| Operation Type | 0 |
| SBAS Provider | 1 (EGNOS) |
| Airport Identifier | EHWO |
| Runway | 25 |
| Runway Letter | 0 (None) |
| Approach Performance Designator | 0 |
| Route Indicator | |
| Reference Path Data Selector | 0 |
| Reference Path Identifier | E25A |
| LTP/FTP Latitude | 512710.3410N |
| LTP/FTP Longitude | 0042130.9220E |
| LTP/FTP Ellipsoidal Height (metres) | 63.7 |
| FPAP Latitude | 512642.4915N |
| Delta FPAP latitude (seconds) | -27.8495 |
| FPAP longitude | 0041932.5655E |
| Delta FPAP Longitude (seconds) | -118.3565 |

| | |
|---------------------------|----------|
| Threshold Crossing Height | 54.0 |
| TCH Units Selector | 0 (feet) |
| Glidepath Angle (degrees) | 3.00 |
| Course Width (metres) | 105.00 |
| Length Offset (metres) | 0 |
| HAL (metres) | 40.0 |
| VAL (metres) | 35.0 |

| Output | |
|----------------------|--|
| Data Block | 10 0F 17 08 05 19 00 00 01 35 32 05 0A C8 14 16 54 D9 DE 01 7D 16 6D 26 FF 57 63 FC 1C 02 2C 01 64 00 C8 AF 71 22 E2 EE |
| Calculated CRC Value | 7122E2EE |
| Supplied CRC Value | 7122E2EE |
| Comparison Result | OK |

| Required Additional Data | |
|-------------------------------------|------|
| ICAO Code | WO |
| LTP/FTP Orthometric Height (metres) | 19.2 |

VFR PROCEDURES

VFR EXIT POINTS

Delta

Just north of Kruisland (51.34'40"N 004.24'08"E)

Whiskey

Most southern point of Zuid Beveland (51.23'45"N 004.08'50"E)

Golf

Fields North of T-Cross N286 with N659 just West of Tholen (51.32'52"N 004.11'48"E)

STANDARD VFR DEPARTURE ROUTES PC7 INBOUND TRAINING AREAS:

DEPARTURES PC-7.

Departure PC-7 RWY 25:

W25 Departure:

To the Walcheren area, proceed south of the A58 to leave the CTR south of Krabbendijke at exit point W (Whiskey).

G25 Departure:

To the G1/G1X, proceed over or west of the Oesterdam to leave the CTR north of Tholen at exit point G (Golf).

D25 Departure:

To the east, proceed west and north of Bergen op Zoom and Halsteren to leave the CTR northwest of Roosendaal at exit point D (Delta).

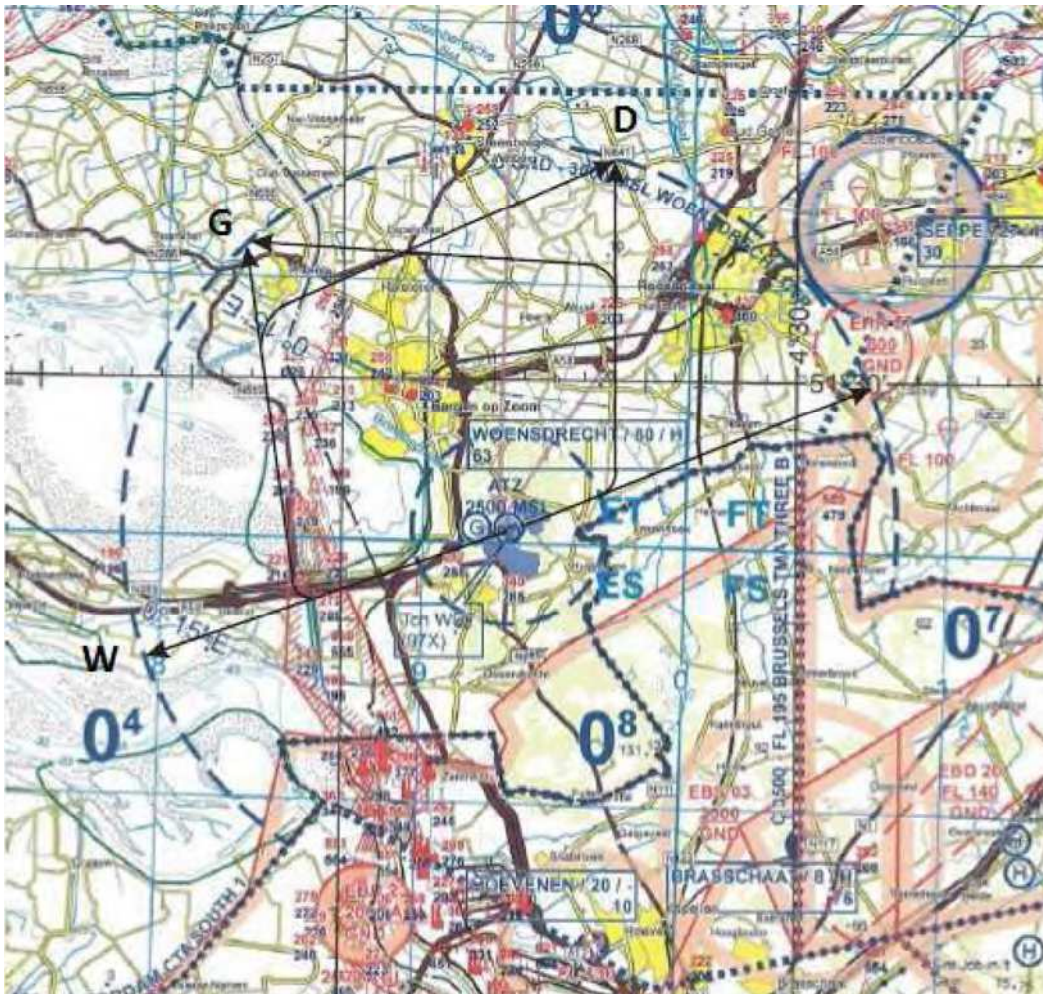
DEPARTURE PC-7 RWY 07:**G07 Departure:**

To the G1/G1X/Walcheren area, proceed east of Bergen op Zoom via north of Halsteren to leave the CTR north of Tholen at exit point G (Golf).

D07 Departure:

To the TMA D, proceed east of Bergen op Zoom and west of Roosendaal to leave the CTR north of Roosendaal at exit point D (Delta).

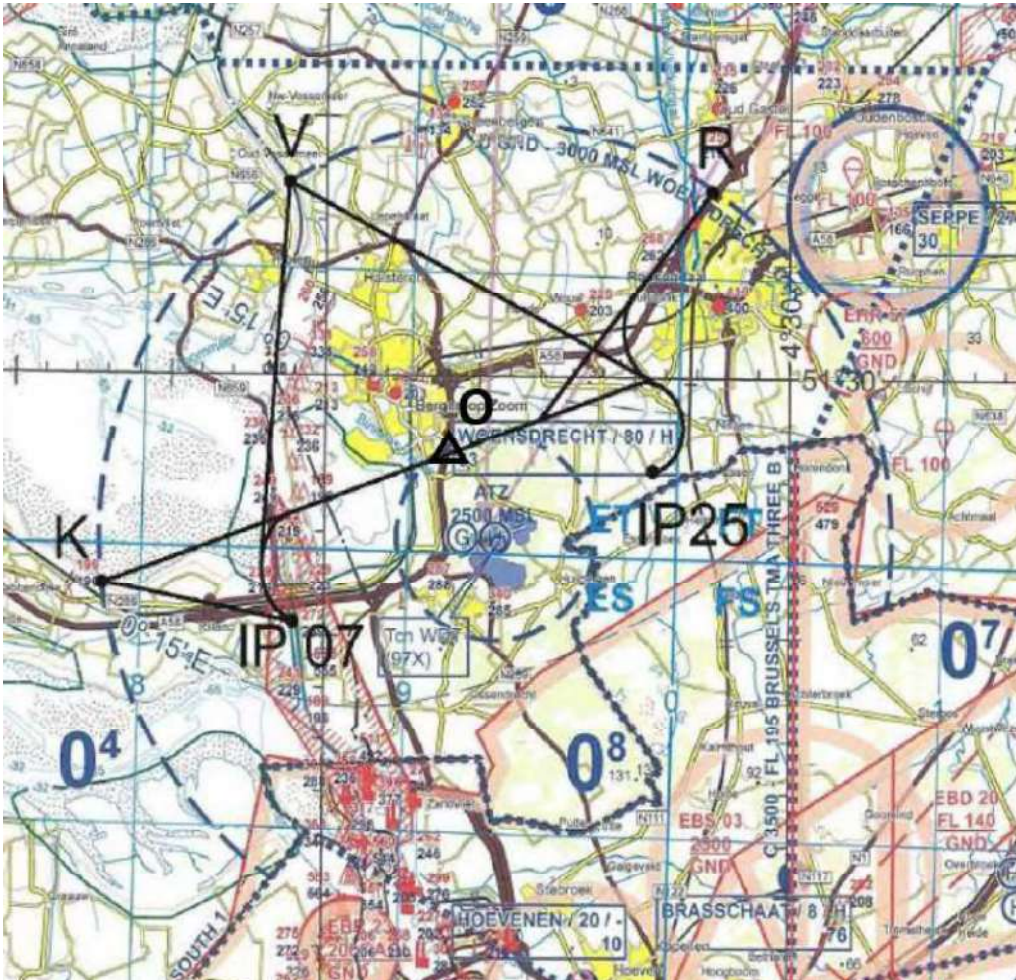
NOTE: PC-7 aircraft proceed at altitude 1500 ft.



VFR ARRIVAL AND CIRCUIT PROCEDURES

Oscar (O).

Crossing A4/A58 with Huijbergsebaan, between the hospital and the most southern residential area of Bergen op Zoom (51.28'44"N 004.18'56"E).



Closed or Downwind turn

When remaining in the circuit a closed or a downwind turn may be requested. A closed implies a climbing turn to downwind when passing the departure end of the runway. A downwind turn implies a turn to downwind when reaching circuit altitude.

Initial straight-in approach

From initial, a straight-in approach can be made. A one-minute prior initial, or abeam initial, shall be reported in order to sequence potential traffic in the circuit. A descent to 1000 ft AMSL will be initiated from the one-minute prior or abeam initial call towards initial.

Direct Downwind

From VFR entry points a direct path to downwind. A one-minute prior downwind shall be reported in order to sequencing potential traffic in the circuit. The descent to circuit altitude will be initiated from the one-minute prior call towards downwind.

Civil pattern

From VFR entry points, a direct path to downwind. Downwind will be entered at 700 ft AMSL.

Simulated Flame Out (SFO) specially for PC-7

High key will start at 2500 ft AMSL. The SFO pattern is standard in the north, however a pattern to the south may be applied to assure an expeditious flow of the potential traffic in the circuit.

LOW APPROACH, TOUCH AND GO, GO-AROUND.

After a Low Approach, Touch and Go or Go-around, traffic is to stop the climb at 1000 ft until passing airfield boundary at runway end.

SLOW LANE PROCEDURES

The slow-lane is standard on the northern side of the runway or otherwise instructed by ATC. Crossing the fast-lane is only allowed after permission from TWR. The slow lane is also to be used for dropping the drag chute.

EHWO AD 2.23 Additional information**Large air traffic Limitations**

Due to protected nature reserve (Markiezaat) situated just north-west of the airbase, a restriction has been established to all aircraft with a wingspan > 30m. At all times this area must be avoided below 3000 ft. A map of the corresponding boundaries of this area is shown below.



AIS Briefing office facility and the ATS Reporting Office (ARO) is only available through the Flight Data and Notam Office (FDNO) located at MilATCC Schiphol.

Tel: +31(0)20 4062840

Tel: +31(0)20 4062841

E-mail: aocs.fdns@mindef.nl

AFTN: EHMCPZX

AVBL H24

PPR 24 HRS: for Prior Permission Request contact:
Operations and Coordination Centre

TEL: +31(0)164-692365

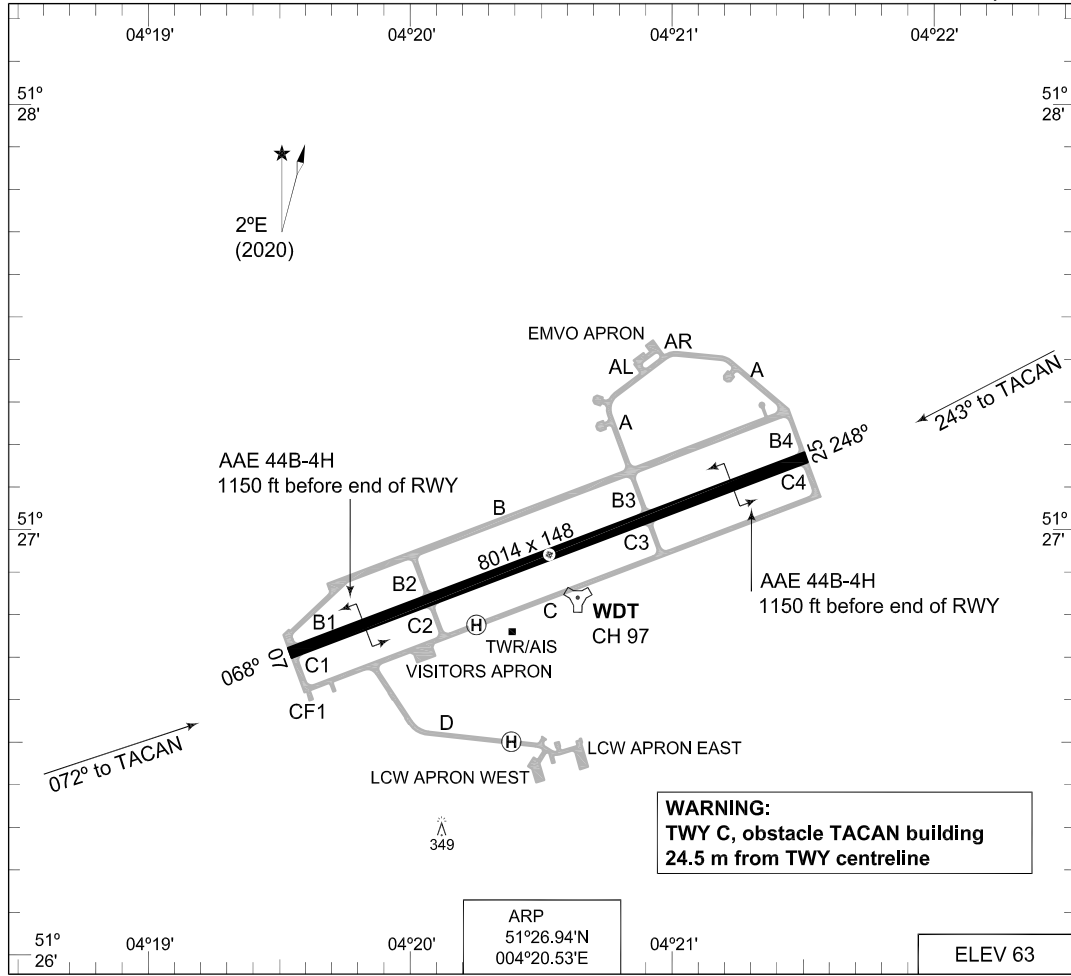
FAX: N.A.

EMAIL: KMSL.OCC@MINDEF.NL

EHWO AD 2.24 Charts related to an aerodrome

| | | |
|--|---|--------------|
| | Aerodrome Chart | EHWO AD 2-15 |
| | Local map | EHWO AD 2-16 |
| | MVA chart | EHWO AD 2-17 |
| | Instrument departure chart WO1 | EHWO AD 2-18 |
| | Instrument departure chart WO3 | EHWO AD 2-19 |
| | Instrument approach chart ILS or LOC RWY 07 | EHWO AD 2-20 |
| | Instrument approach chart HI-TACAN RWY 07 | EHWO AD 2-21 |
| | Instrument approach chart TACAN RWY 07 | EHWO AD 2-22 |
| | Instrument approach chart RNP RWY 07 | EHWO AD 2-23 |
| | Instrument approach chart ILS or LOC RWY 25 | EHWO AD 2-24 |
| | Instrument approach chart HI-TACAN RWY 25 | EHWO AD 2-25 |
| | Instrument approach chart TACAN RWY 25 | EHWO AD 2-26 |
| | Instrument approach chart RNP RWY 25 | EHWO AD 2-27 |

MIPS AERODROME CHART **WOENS DRECHT (EHWO)**

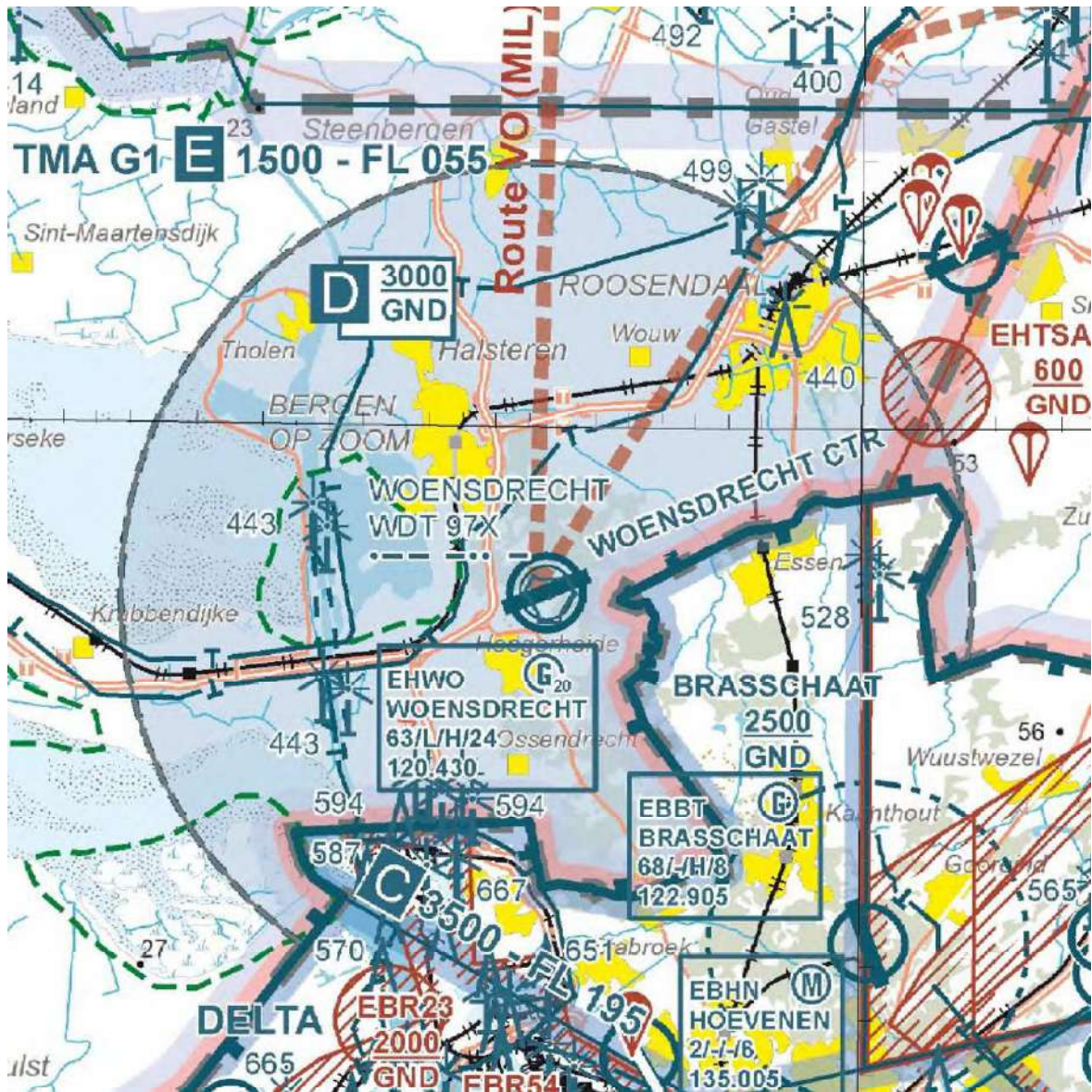


| RWY | PCN | TORA | ASDA | TODA | LDA | PAPI | TDZE | THR PSN | |
|----------------------|----------------|------|------|---------|---------|------|------|------------------------|------------------------|
| 25 | 51 R/C/W/T | 8014 | 8014 | 8014 | 8014 | 3.0° | 63 | 51°27.17'N 004°21.51'E | |
| 07 | 51 R/C/W/T | 8014 | 8014 | 8014 | 8014 | 3.0° | 39 | 51°26.71'N 004°19.54'E | |
| GROUND CONTROL | | | | 356.875 | 121.680 | | | | |
| WOENS DRECHT TWR | | | | 339.000 | 120.430 | | | | |
| RAPCON WEST | | | | 399.725 | 123.580 | | | | |
| WOENS DRECHT ARRIVAL | | | | 370.650 | | | | | |
| SRA | PROC. CRITERIA | RWY | GS | TCH | OTCH | RPI | CAT | MINIMA CRITERIA | MINIMA |
| | MIPS | 25 | | | | | AB | MIPS | 450-1100 387 (400-1.1) |
| | MIPS | 07 | | | | | CDE | MIPS | 450-1200 387 (400-1.2) |
| | | | | | | | AB | | 600-1600 561 (600-1.6) |
| | | | | | | | C | | 600-2400 561 (600-2.4) |
| | | | | | | | D | | 600-2800 561 (600-2.8) |
| | | | | | | | E | | 600-3200 561 (600-3.2) |

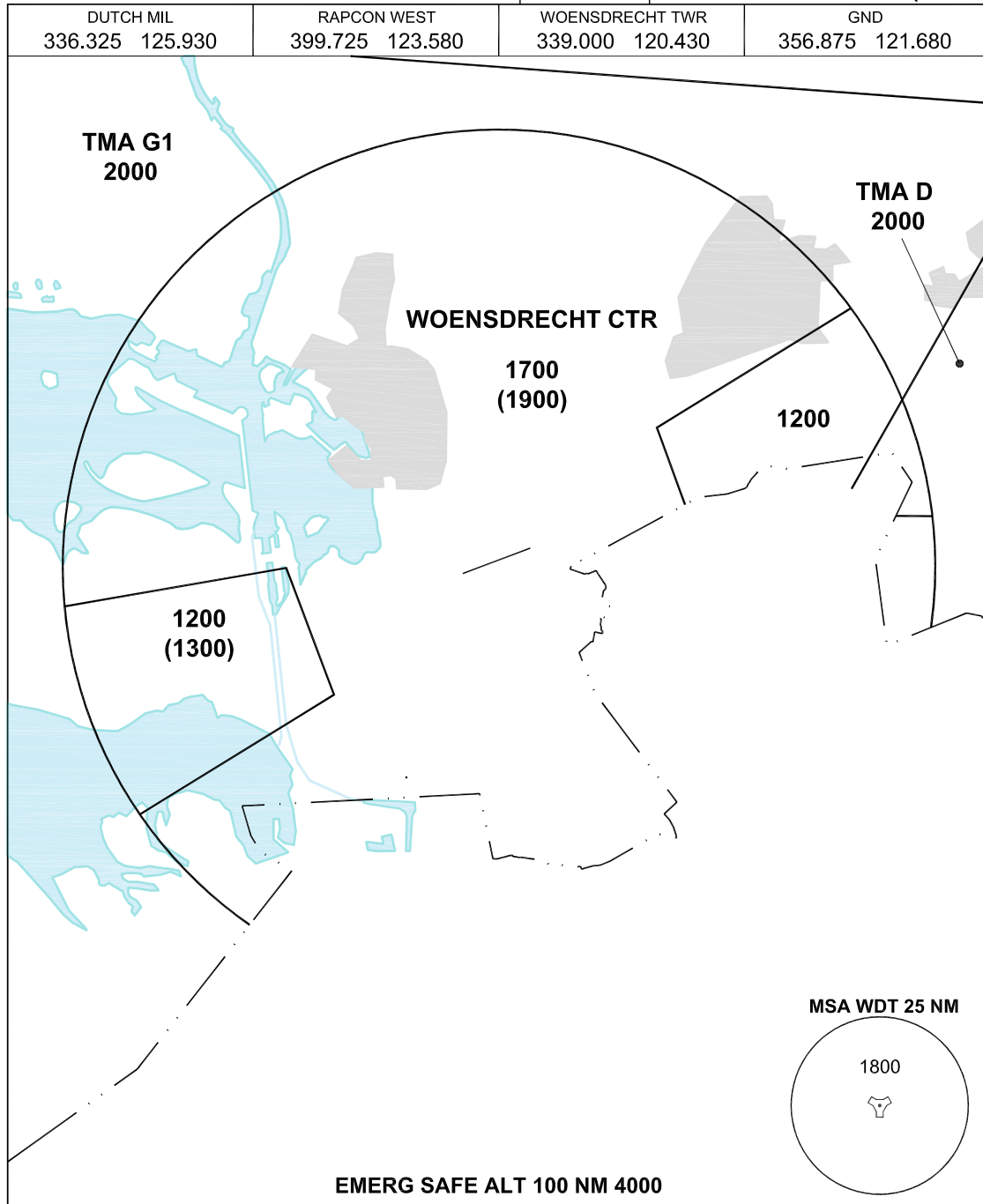
CHANGES: PAPI RWY 07

RNLAF 23 MAR 2023

LOCAL MAP



MIPS **MINIMUM VECTORING ALTITUDE** AD ELEV 63 **MVA CHART**
WOENSDRICHT (EHWO)



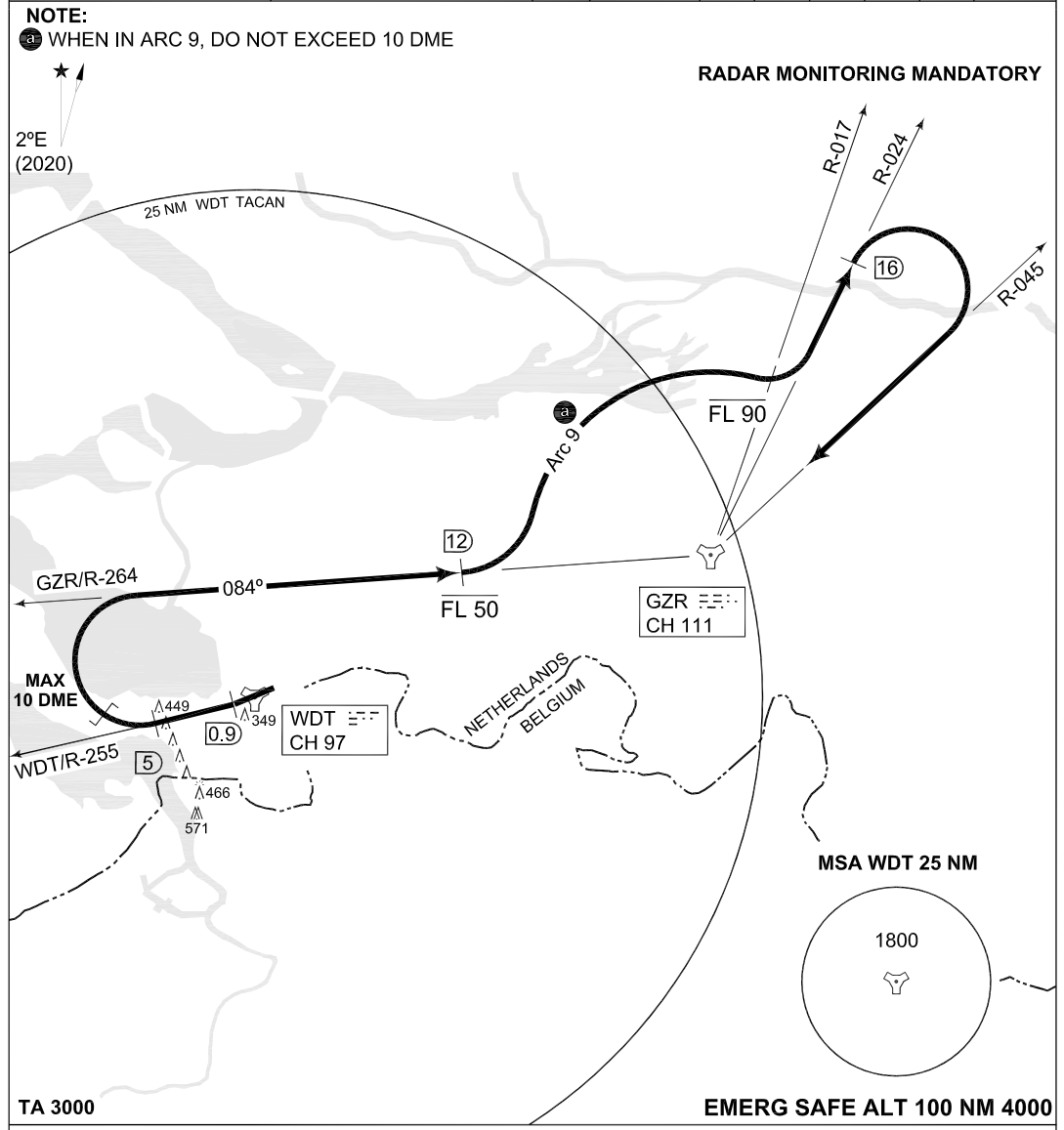
CHANGES: MSA, EDITORIAL

- THE ALTITUDE BETWEEN BRACKETS IS TO BE USED FOR THE CORRESPONDING SECTOR WHEN AIR TEMPERATURE AT AIRBASE ALTITUDE IS LOWER THAN -7°.
- ALTITUDES ONLY AVAILABLE IF THE RADAR COVERAGE PERMITS.

RNLAf 30 DEC 2021

MIPS INSTRUMENT DEPARTURE CHART **WO1 WOENS DRECHT (EHWO)**

| | | | | | | | | | |
|----------------------------|-------------------------------------|------------|--------------------------------|------------------------------|-----|-----|-----|------|--------|
| GND CTL 356.875 121.680 | WOENS DRECHT TWR 339.000 120.430 | AD ELEV 63 | RAPCON WEST 399.725 123.580 | DUTCH MIL 336.325 125.930 | | | | | |
| | | RWY | Knots | 120 | 180 | 240 | 300 | 360 | to |
| | | 25 | V/V (fpm) | 360 | 540 | 720 | 900 | 1080 | 114 ft |



CAUTION: Dep end crossing height 78 ft due to obstacle left of centerline. TORA 8014.

- | | |
|--------------------------------|--|
| WOENS DRECHT 1 (RWY 25) | <ul style="list-style-type: none"> - At 0.9 DME intercept R-255 outbound, level off at FL 50. - At 5 DME intercept GZR R-264 inbound. - At R-264/12 DME climb to FL 90. - Turn left to intercept Arc 9. ● - Intercept R-024 outbound, when crossing GZR R-017 continue climb. - At 16 DME turn right to intercept R-045 inbound. |
| NOTE: | Departure will be controlled by Rapcon West. |

CHANGES: MSA

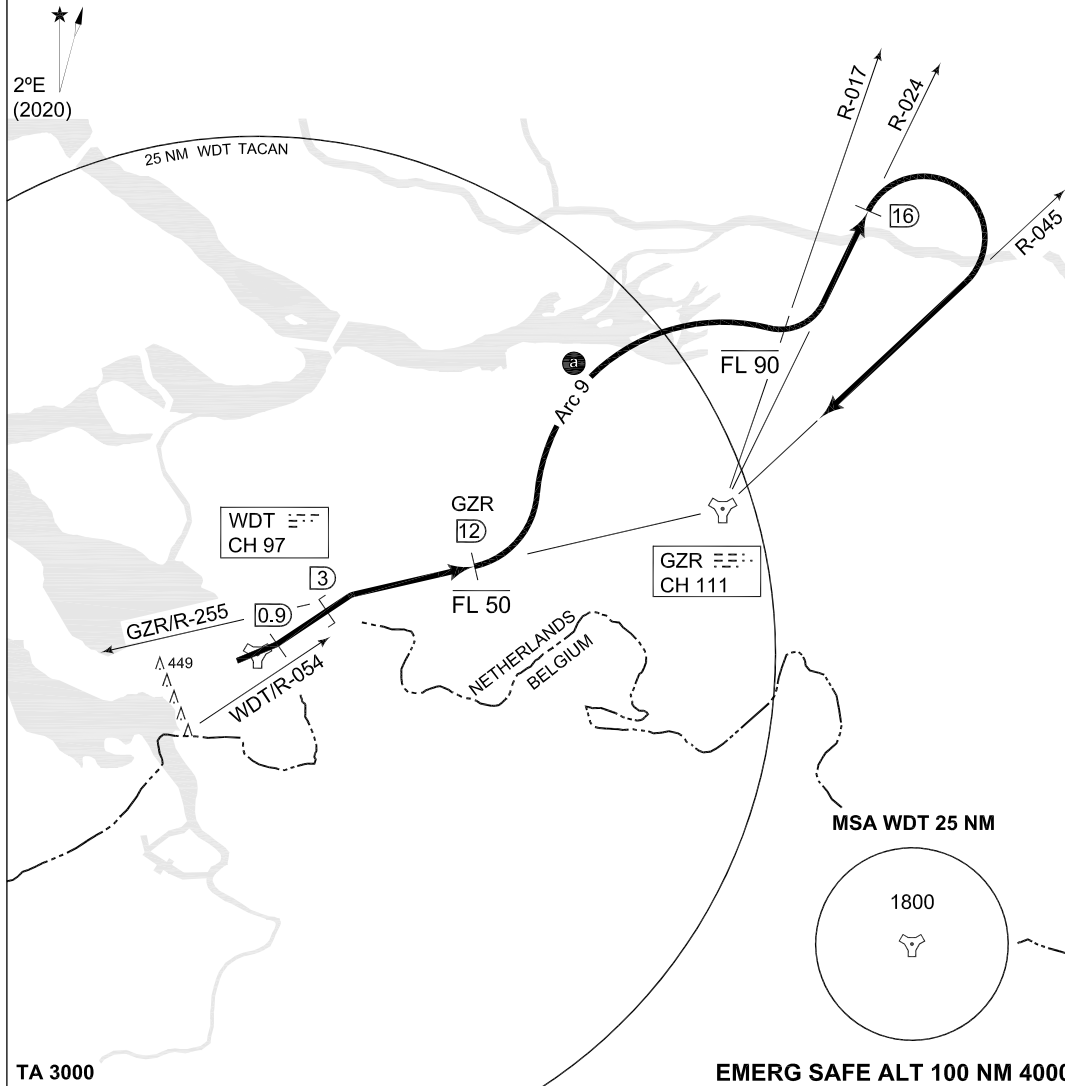
RNLAf 30 DEC 2021

MIPS INSTRUMENT DEPARTURE CHART **WO3 WOENS DRECHT (EHWO)**

| | | | | |
|----------------------------|-------------------------------------|--------------------------------|------------|------------------------------|
| GND CTL 356.875 121.680 | WOENS DRECHT TWR 339.000 120.430 | RAPCON WEST 399.725 123.580 | AD ELEV 63 | DUTCH MIL 336.325 125.930 |
|----------------------------|-------------------------------------|--------------------------------|------------|------------------------------|

NOTE:

ⓐ WHEN IN ARC 9, DO NOT EXCEED 10 DME



WOENS DRECHT 3 (RWY 07)

- At 0.9 DME turn left to intercept WDT R-054 outbound.
- At 3 DME intercept GZR R-255 inbound, level off at FL 90.
- At GZR R-255/12 DME climb to FL 90.
- Turn left to intercept Arc 9. ⓐ
- Intercept GZR R-024 outbound, when crossing GZR R-017 continue climb.
- At 16 DME turn right to intercept R-045 inbound.

NOTE: Departure will be controlled by Rapcon West.

CHANGES: MSA

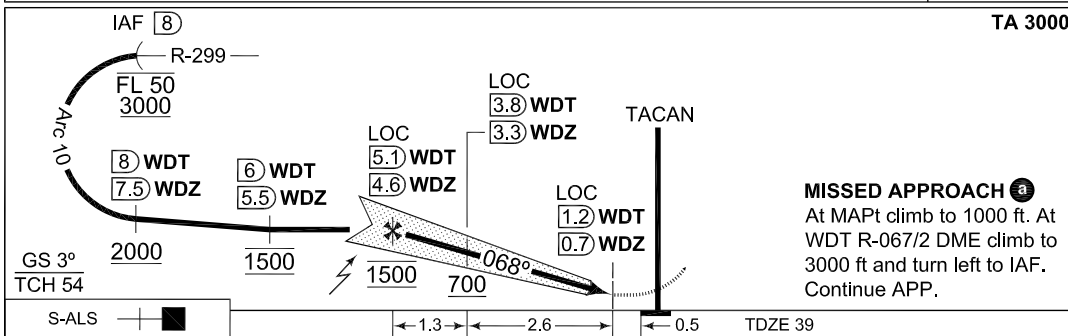
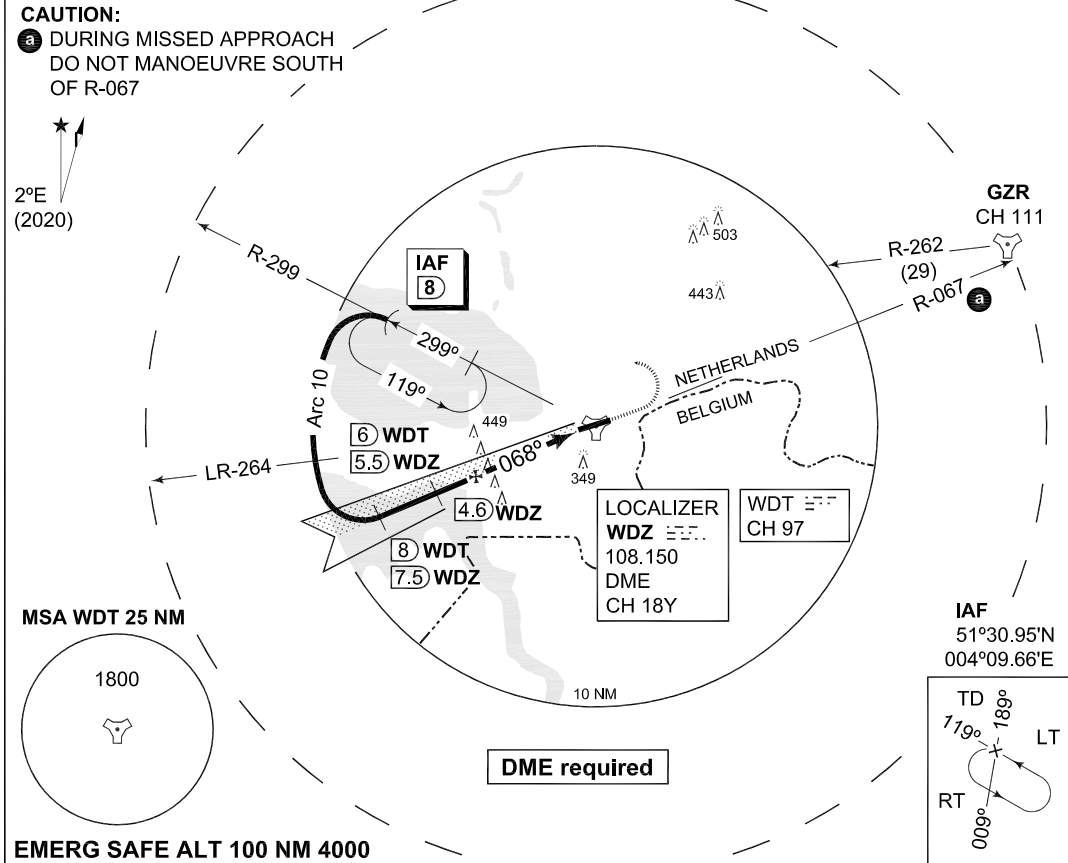
RNLAF 30 DEC 2021

MIPS
INSTRUMENT APPROACH CHART

ILS or LOC RWY 07
WOENS DRECHT (EHWO)

AD ELEV 63

| | | | | | | | | | |
|--|--|--------------------------------|--------------------|-------------------------------------|----------|------------------------|------------|--------------|----------------|
| DUTCH MIL 336.325 125.930 | | RAPCON WEST 399.725 123.580 | | WOENS DRECHT TWR 339.000 120.430 | | GND 356.875 121.680 | | | |
| TACAN / LOCALIZER / DME WDT CH 97 / WDW 108.150 / CH 18 Y | | | APP COURSE 068° | GS INTCP ALT 1500 FT | GS 3° | DA SEE CAT | TDZE 39 | ALS 420 m | LDA 8014 FT |



| CATEGORY | A | B | C | D | E |
|----------|--------------------------|---------------------------|---------------------------|---------------------------|------|
| S-ILS 07 | 239-800 200 (200-0.8) | 246-1200 207 (300-1.2) | 256-1200 217 (300-1.2) | 266-1200 227 (300-1.2) | N.A. |
| S-LOC 07 | 480-1600 441 (500-1.6) | | 480-2000 441 (500-2.0) | 480-2400 441 (500-2.4) | N.A. |

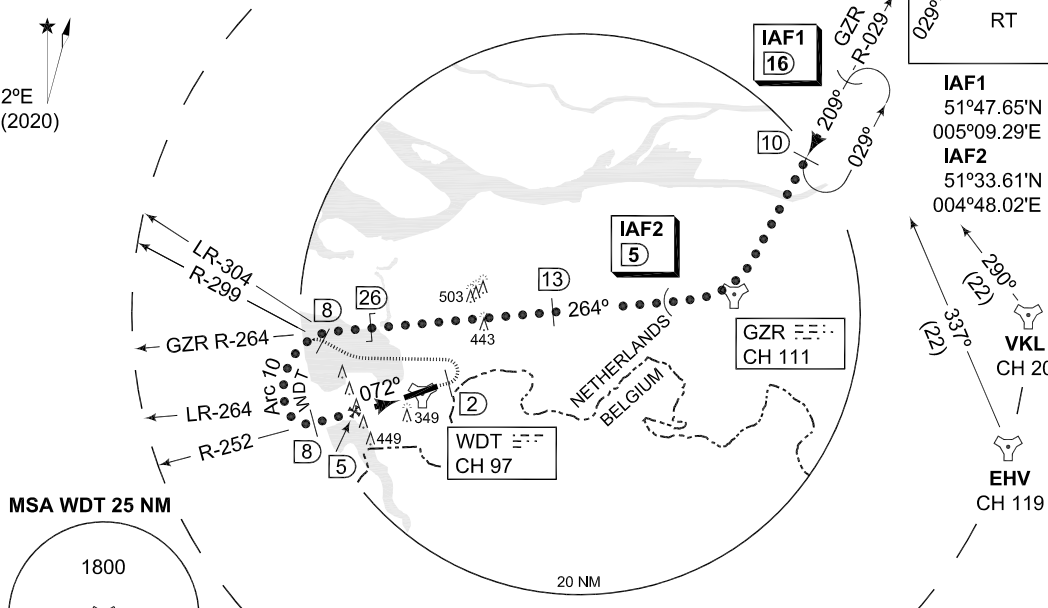
CHANGES: EDITORIAL
MIPS

RNLAF 21 APR 2022

MIPS **HI-TACAN RWY 07**
INSTRUMENT APPROACH CHART **WOENS DreCHT (EHWO)**

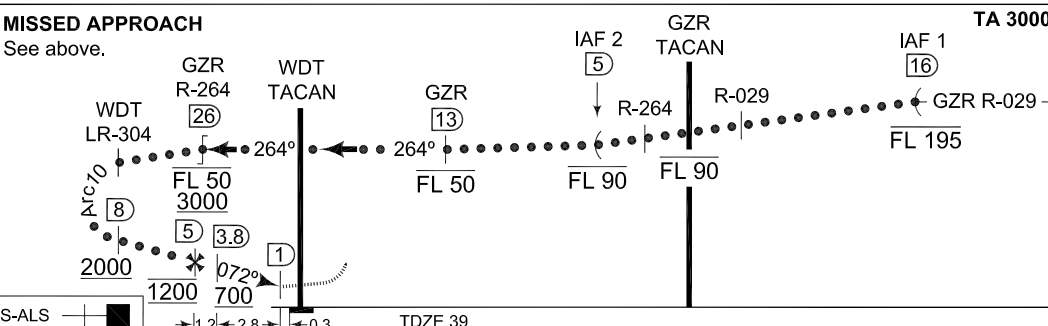
| | | | | | | | |
|------------------------------|--------------------|--------------------------------|------------|-------------------------------------|------------|------------------------|----------------|
| DUTCH MIL 336.325 125.930 | | RAPCON WEST 399.725 123.580 | | WOENS DreCHT TWR 339.000 120.430 | | GND 356.875 121.680 | |
| TACAN WDT CH 97 | APP COURSE 072° | FAF ALT 1200 FT | Descent GR | MDA 600 | TDZE 39 | ALS 420 m | LDA 8014 FT |

CAUTION:
a) DURING MISSED APPROACH
DO NOT MANOEUVRE SOUTH
OF R-067



MISSED APPROACH a)
At MAPt climb to 1000 ft.
At R-067/2 DME climb to 3000 ft and turn left to intercept R-299
outbound. At 8 DME turn left to intercept ARC 10. Continue APP.

EMERG SAFE ALT 100 NM 4000



| CATEGORY | A | B | C | D | E |
|------------|------------------------|---|------------------------|------------------------|------------------------|
| S-TACAN 07 | 600-1600 561 (600-1.6) | | 600-2400 561 (600-2.4) | 600-2800 561 (600-2.8) | 600-3200 561 (600-3.2) |
| CIRCLING | NOT AUTHORIZED | | | | |

CHANGES: MSA

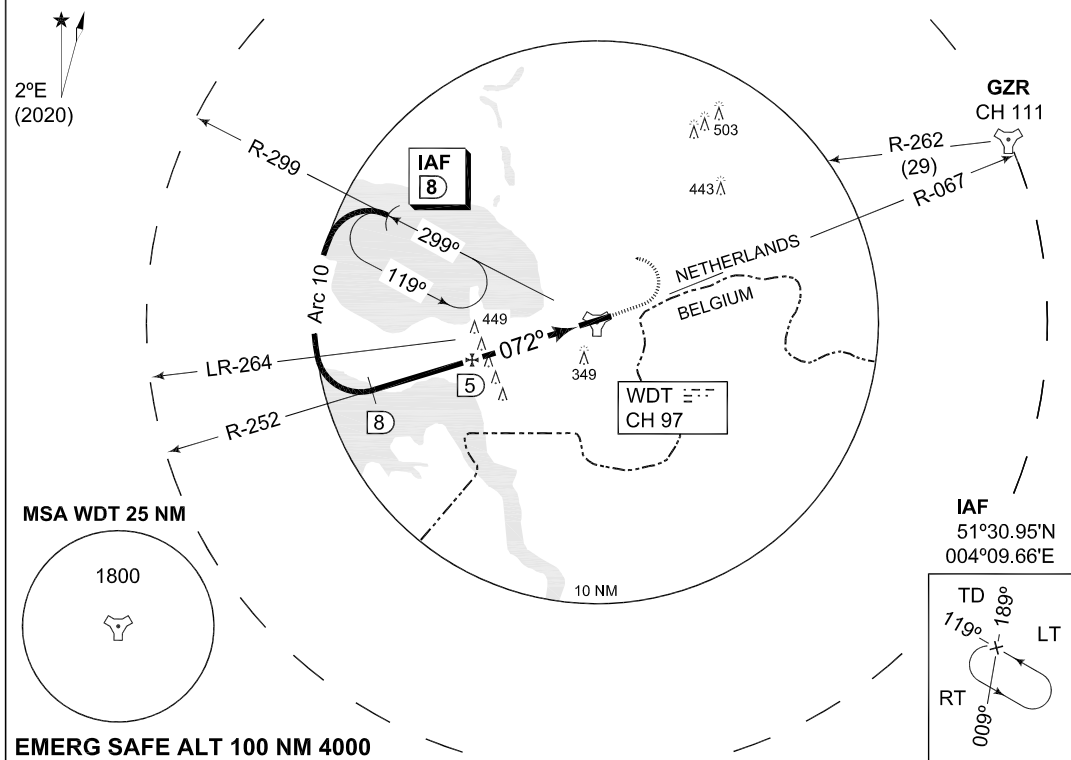
MIPS

RNLAF 30 DEC 2021

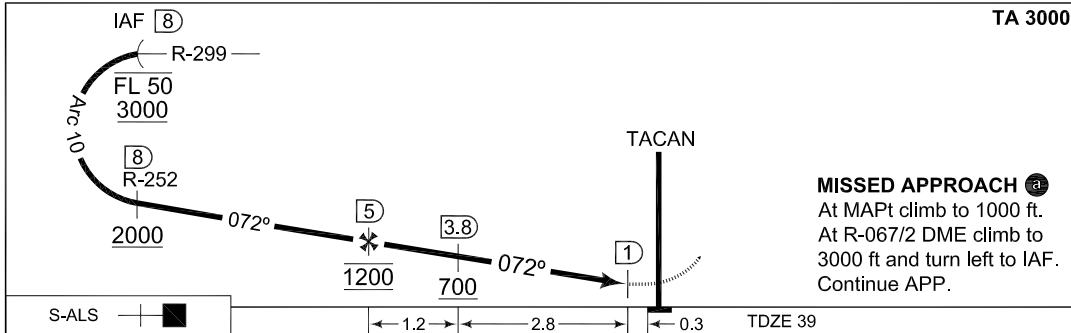
MIPS INSTRUMENT APPROACH CHART **TACAN RWY 07 WOENSDRECHT (EHWO)**

| | | | | | | | |
|------------------------------|--------------------|--------------------------------|------------|------------------------------------|------------|------------------------|----------------|
| DUTCH MIL 336.325 125.930 | | RAPCON WEST 399.725 123.580 | | WOENSDRECHT TWR 339.000 120.430 | | GND 356.875 121.680 | |
| TACAN WDT CH 97 | APP COURSE 072° | FAF ALT 1200 FT | Descent GR | MDA 600 | TDZE 39 | ALS 420 m | LDA 8014 FT |

CAUTION:
 a DURING MISSED APPROACH
 DO NOT MANOEUVRE SOUTH
 OF R-067



EMERG SAFE ALT 100 NM 4000



| | | | | | | |
|------------|--------------------------------|---|--------------------------------|--------------------------------|--------------------------------|--|
| | | | | | | |
| TA 3000 | | | | | | |
| S-ALS | | | | | | |
| CATEGORY | A | B | C | D | E | |
| S-TACAN 07 | 600 -1600 561 (600-1.6) | | 600 -2400 561 (600-2.4) | 600 -2800 561 (600-2.8) | 600 -3200 561 (600-3.2) | |
| CIRCLING | NOT AUTHORIZED | | | | | |

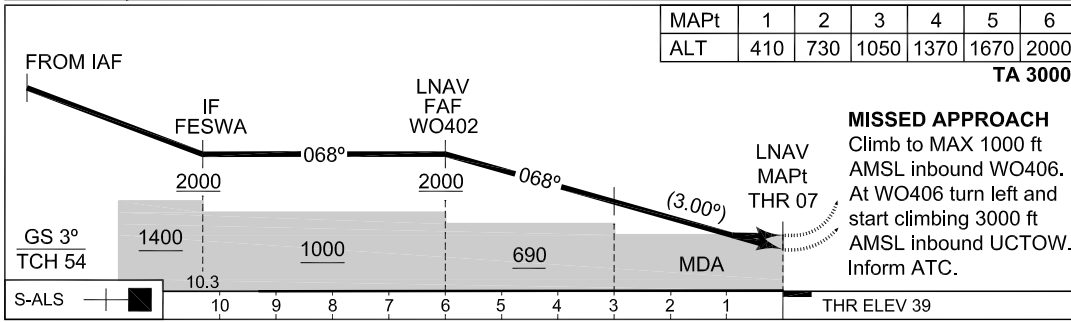
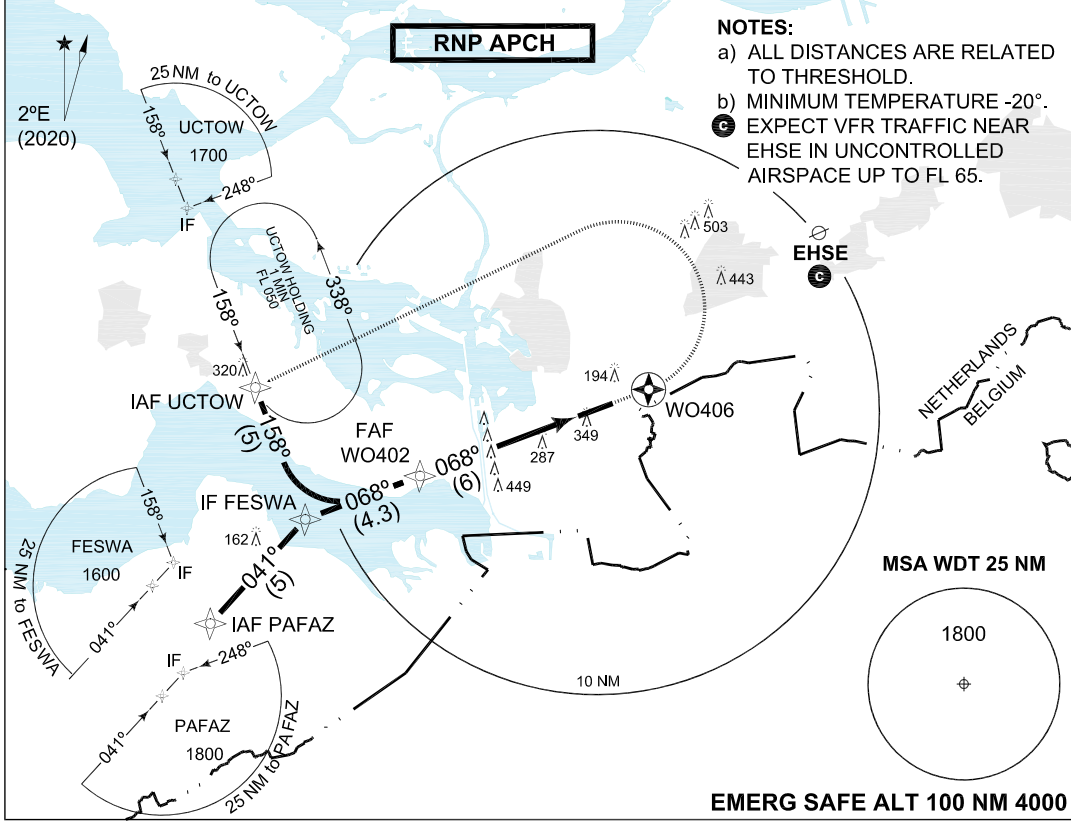
CHANGES: MSA

MIPS

RNLAF 30 DEC 2021

PANS OPS INSTRUMENT APPROACH CHART **RNP RWY 07**
WOENS DRECHT (EHWO)

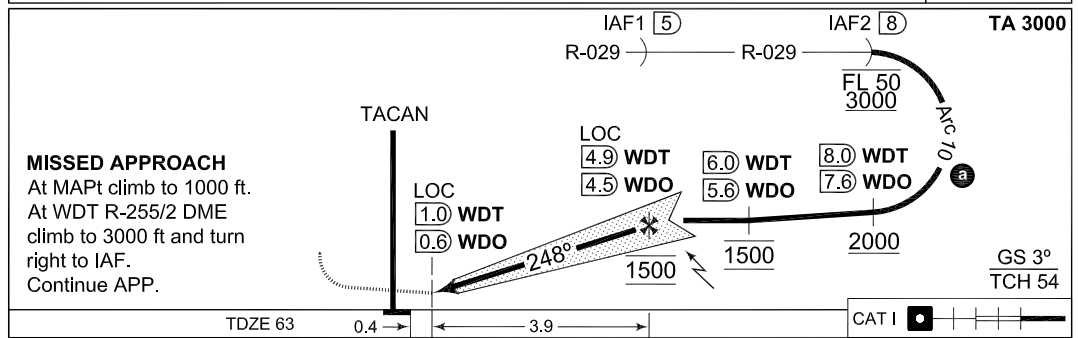
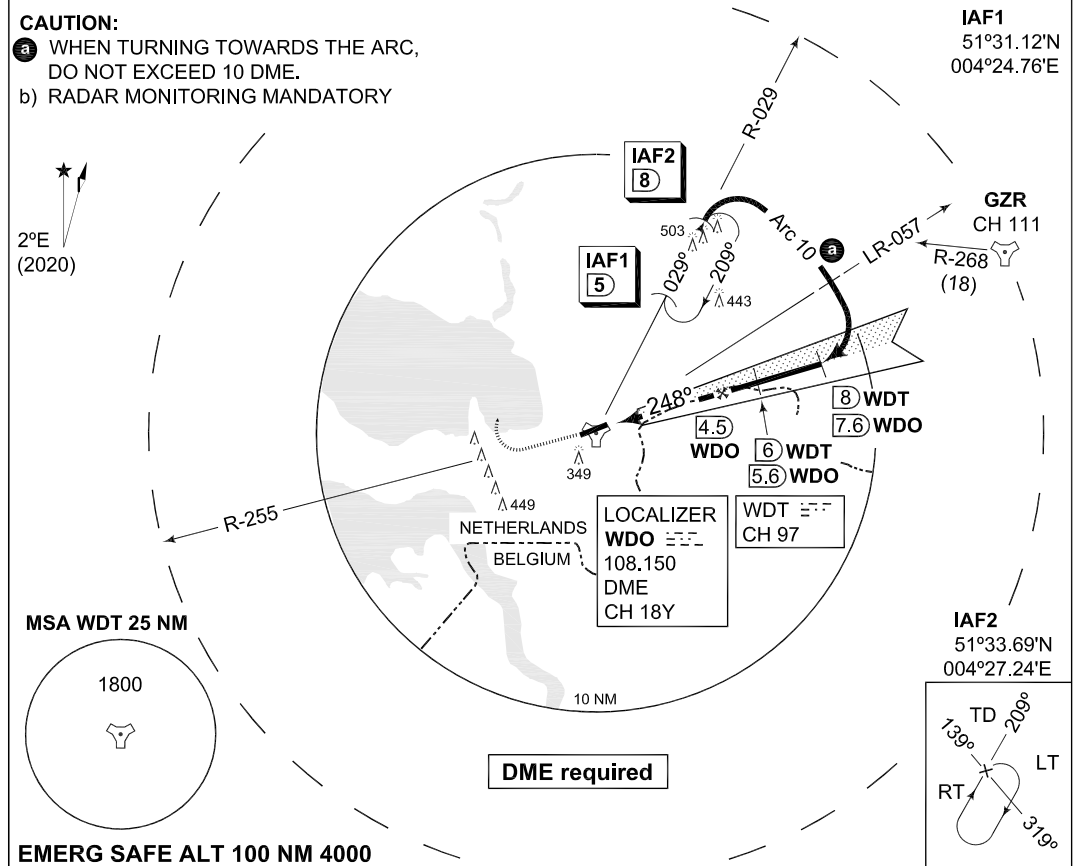
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|------------------------------|--|--------------------------------|--|-------------------------------------|--|----------------------------|--|-------------------|--|
| DUTCH MIL 336.325 125.930 | | RAPCON WEST 399.725 123.580 | | WOENS DRECHT TWR 339.000 120.430 | | GND CTL 356.875 121.680 | | ATIS* | |
| EGNOS CHANNEL 99205 E07A | | APP COURSE 068° | | FAF ALT 2000 FT | | Descent GR 5.24% / 3.0° | | MDA 600 | |
| | | | | | | DA SEE CAT | | THR ELEV 39 | |
| | | | | | | | | ALS 420 m | |
| | | | | | | | | LDA 8014 FT | |



| CATEGORY | | A | B | C | D |
|----------|-------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| EU-OPS | DA(H) LPV | 260 -800 221 (300-0.8/1.2) | 270 -800 231 (300-0.8/1.2) | 280 -800 241 (300-0.8/1.3) | 289 -800 250 (300-0.8/1.3) |
| | DA(H) LNAV / VNAV | 481 -1700 442 (500-1.7/2.0) | 491 -1700 452 (500-1.7/2.1) | 501 -1800 462 (500-1.8/2.2) | 511 -1800 472 (500-1.8/2.2) |
| | MDA(H) LNAV | 600 -2200 561 (600-2.2/2.6) | | | |
| IAWP | UCTOW | 51°27.72'N 004°01.26'E | FAWP | WO402 | 51°24.59'N 004°10.59'E |
| IAWP | PAFAZ | 51°19.35'N 003°58.74'E | MAWP | THR 07 | 51°26.71'N 004°19.54'E |
| IWP | FESWA | 51°23.05'N 004°04.10'E | MATWP | WO406 | 51°27.65'N 004°23.56'E |

MIPS INSTRUMENT APPROACH CHART **ILS or LOC RWY 25 WOENS DRECHT (EHWO)**

| | | | |
|--|--------------------------------|-------------------------------------|-------------------------|
| DUTCH MIL 336.325 125.930 | RAPCON WEST 399.725 123.580 | WOENS DRECHT TWR 339.000 120.430 | GND 356.875 121.680 |
| TACAN / LOCALIZER / DME WDT CH 97/WDO 108.150/CH 18 Y | | APP COURSE 248° | GS INTCP ALT 1500 FT |
| | | GS 3° | DA SEE CAT |
| | | TDZE 63 | ALS 900 m |
| | | LDA 8014 FT | |



| CATEGORY | A | B | C | D | E |
|----------|-------------------------------|---|---|--------------------------------|------|
| S-ILS 25 | 263 -800 200 (200-0.8) | | | 268 -800 205 (300-0.8) | N.A. |
| S-LOC 25 | 440 -800 377 (400-0.8) | | | 440 -1200 377 (400-1.2) | N.A. |

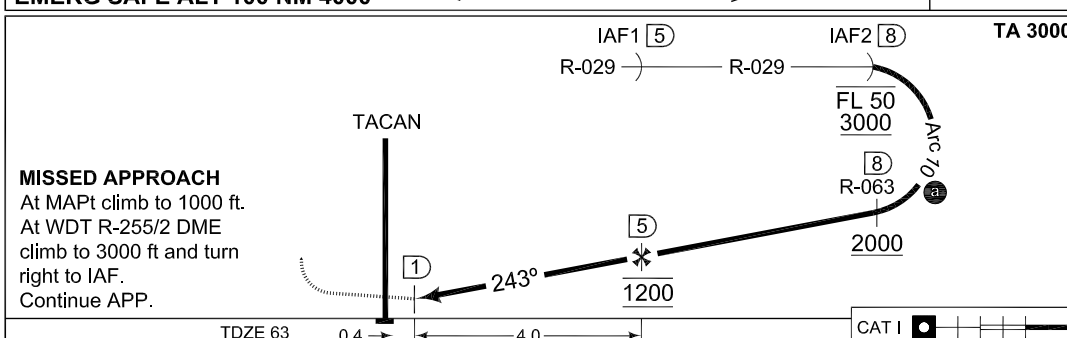
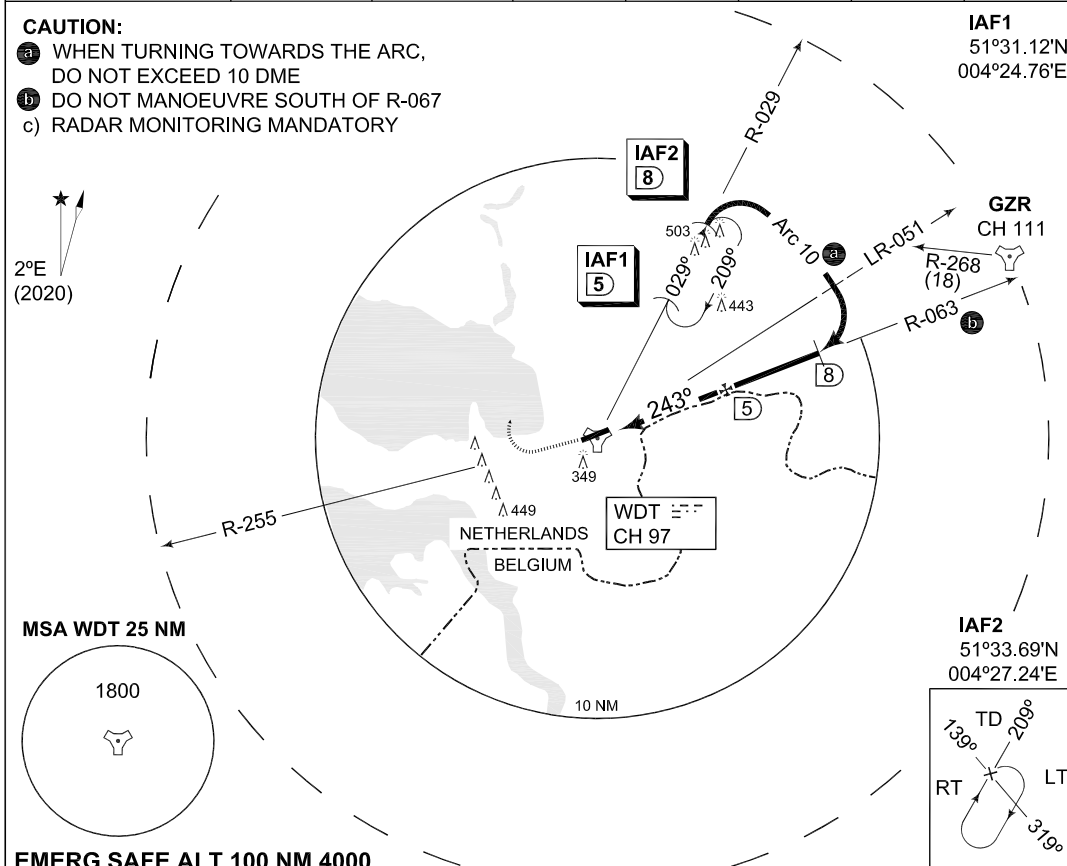
CHANGES: EDITORIAL

MIPS

RNLAF 21 APR 2022

MIPS INSTRUMENT APPROACH CHART **TACAN RWY 25 WOENS DRECHT (EHWO)**

| | | | |
|------------------------------|--------------------------------|-------------------------------------|--------------------------|
| DUTCH MIL 336.325 125.930 | RAPCON WEST 399.725 123.580 | WOENS DRECHT TWR 339.000 120.430 | GND 356.875 121.680 |
| TACAN WDT CH 97 | APP COURSE 243° | FAF ALT 1200 FT | Descent GR MDA 440 |
| | | | TDZE 63 |
| | | | ALS 900 m |
| | | | LDA 8014 FT |



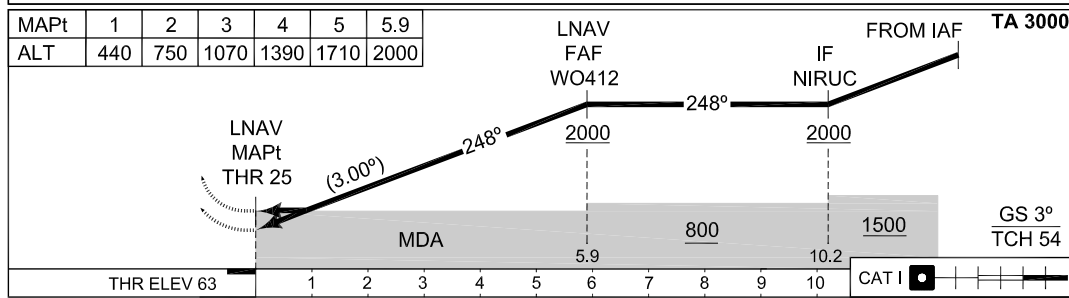
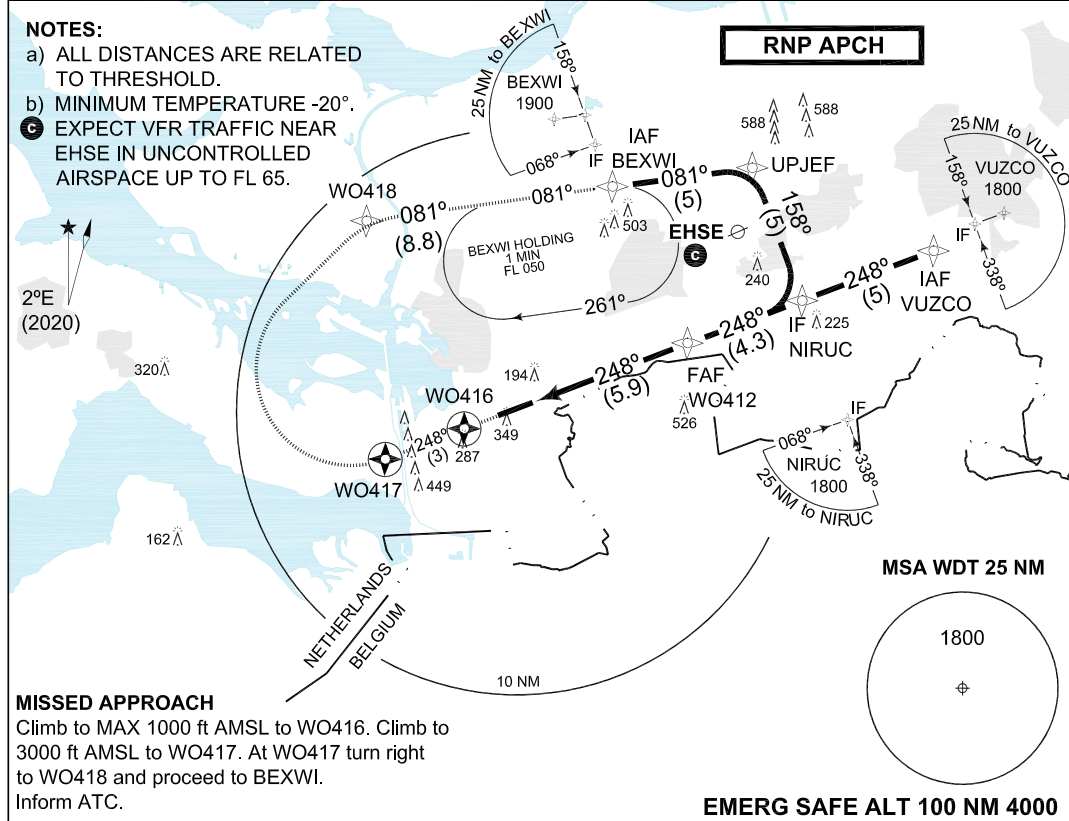
| CATEGORY | A | B | C | D | E |
|------------|------------------------------|---|---|-------------------------------|---|
| S-TACAN 25 | 440-800 377 (400-0.8) | | | 440-1200 377 (400-1.2) | |
| CIRCLING | NOT AUTHORIZED | | | | |

CHANGES: MSA MIPS

RNLAF 30 DEC 2021

PANS OPS INSTRUMENT APPROACH CHART **RNP RWY 25 WOENSDRECHT (EHWO)**

| | | | | | | | | | |
|------------------------------|--------------------|--------------------------------|----------------------------|------------------------------------|----------------------|----------------------------|--------------|----------------|--|
| DUTCH MIL 336.325 125.930 | | RAPCON WEST 399.725 123.580 | | WOENSDRECHT TWR 339.000 120.430 | | GND CTL 356.875 121.680 | | ATIS* | |
| EGNOS CHANNEL 51845 E25A | APP COURSE 248° | FAF ALT 2000 FT | Descent GR 5.24% / 3.0° | MDA SEE CAT | DA SEE CAT | THR ELEV 63 | ALS 900 m | LDA 8014 FT | |



| CATEGORY | | A | B | C | D |
|-------------------|--|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|
| DA(H) LPV | | 284 -550 221 (300-0.8/1.2) | 294 -550 231 (300-0.8/1.2) | 303 -550 240 (300-0.8/1.2) | 313 -550 250 (300-0.8/1.3) |
| DA(H) LNAV / VNAV | | 321 -600 258 (300-0.8/1.3) | 331 -600 268 (300-0.8/1.3) | 352 -650 289 (300-0.8/1.4) | 379 -700 316 (400-0.8/1.4) |
| MDA(H) LNAV | | 440 -1000 377 (400-1.0/1.7) | | 450 -1100 387 (400-1.1/1.8) | 470 -1200 407 (500-1.2/1.9) |

| | | | | | | | |
|------|-------|------------|-------------|-------|-------|------------|-------------|
| IAWP | VUZCO | 51°32.51'N | 004°44.39'E | MAWP | THR25 | 51°27.17'N | 004°21.52'E |
| IAWP | BEXWI | 51°34.79'N | 004°26.14'E | MATWP | WO416 | 51°26.25'N | 004°17.60'E |
| WP | UPJEF | 51°35.44'N | 004°34.09'E | MATWP | WO417 | 51°25.19'N | 004°13.12'E |
| IWP | NIRUC | 51°30.76'N | 004°36.89'E | MATWP | WO418 | 51°33.61'N | 004°12.09'E |
| FAWP | WO412 | 51°29.25'N | 004°30.37'E | MAHF | BEXWI | 51°34.79'N | 004°26.14'E |

CHANGES: INSERT EHSE, NOTES

RNLAF 23 MAR 2023



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