Koninklijke Luchtmacht
Staf CLSK
DO/AMO/SAOC
Postbus 8762
4820 BB BREDA
MPC 92 A BREDA

Breda. 07 Nov 2017

AIRAC AMENDMENT 01/18

EFFECTIVE DATE 04 JAN 18

to the Military Aeronautical Information Publication
(vs 83-6100-004; pub. Nr. 010701)

1. The following changes to the MilAIP Netherlands have to be incorporated:
   a. Handamendment:
      None.
   b. Page changes:

Remove old	Insert new	Remove old	Insert new	Remove old	Insert new
GEN 0.4-1	GEN 0.4-1	EHGR 2-11	EHGR 2-11	EHLW 2-8	EHLW 2-8
GEN 0.4-3	GEN 0.4-3	up to	up to	EHLW 2-20	EHLW 2-20
up to	up to	EHGR 2-21	EHGR 2-21	up to	up to
GEN 0.4-6	GEN 0.4-6			EHLW 2-30	EHLW 2-30
		EHKD 2-8	EHKD 2-8		EHLW 2-31
ENR 5.2-16	ENR 5.2-16	up to	up to		EHLW 2-32
		EHKD 2-16	EHKD 2-16		
EHEH 2-2	EHEH 2-2			EHVK 2-15	EHVK 2-15

2. After completion:
   a. destroy obsolete pages;
   b. insert letter of promulgation before page GEN 0;
   c. record the incorporration of this amendment on page GEN 0.2-1.

3. The following MIL NOTAM are incorporated:

   M3072/17

Commander Royal Netherlands Air Force
In order H-C4ISR

H. Kiffen
Colonel

GEN 0.4 CHECKLIST OF MilAIP PAGES

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0.6-2	12 OCT 2017		2.2-1	13 OCT 2016		3.3-4	12 NOV 2015
0.6-3	12 OCT 2017		2.2-2	13 OCT 2016		3.4-1	12 NOV 2015
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EHGR 2-21	04 JAN 2018		EHLW 2-8	04 JAN 2018		EHVK 2-2	12 NOV 2015
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EHKD 2-8	04 JAN 2018		EHLW 2-18	30 MAR 2017		EHVK 2-12	02 FEB 2017
EHKD 2-9	04 JAN 2018		EHLW 2-19	30 MAR 2017		EHVK 2-13	02 FEB 2017
EHKD 2-10	04 JAN 2018		EHLW 2-20	04 JAN 2018		EHVK 2-14	02 FEB 2017
EHKD 2-11	04 JAN 2018		EHLW 2-21	04 JAN 2018		EHVK 2-15	04 JAN 2018
EHKD 2-12	04 JAN 2018		EHLW 2-22	04 JAN 2018		EHVK 2-16	02 FEB 2017
EHKD 2-13	04 JAN 2018		EHLW 2-23	04 JAN 2018		EHVK 2-17	02 FEB 2017
EHKD 2-14	04 JAN 2018		EHLW 2-24	04 JAN 2018		EHVK 2-18	02 FEB 2017
EHKD 2-15	04 JAN 2018		EHLW 2-25	04 JAN 2018		EHVK92-17	02 FEB 2017
EHKD 2-16	04 JAN 2018		EHLW 2-26	04 JAN 2018		EHVK 2-20	02 FEB 2017
			EHLW 2-27	04 JAN 2018			

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EHWO 2-6	12 NOV 2015						
EHWO 2-7	07 DEC 2017						
EHWO 2-8	25 MAY 2017						
EHWO 2-9	12 NOV 2015						
EHWO 2-10	25 MAY 2017						
EHWO 2-11	25 MAY 2017						
EHWO 2-12	22 JUN 2017						
EHWO 2-13	25 MAY 2017						
EHWO 2-14	22 JUN 2017						
EHWO 2-15	25 MAY 2017						
EHWO 2-16	25 MAY 2017						
EHWO 2-17	25 MAY 2017						
EHWO 2-18	12 NOV 2015						

- Natura 2000 areas shall always be taken in to account when planning and executing an exercise.
- Altitude restrictions are described in ENR 1.1.11.
- Noise Abatement Procedures are described in ENR 1.1.12.

ENR 5.2.2.4.2.2.2. CBA Sea

Basically Air to Air and other military exercises.

ENR 5.2.2.4.2.2.3. EHD1-9 and 18

Basically Air to Air and other military exercises.

ENR 5.2.2.4.2.2.4. EHD 41A/41B/41C/41D

Live firing Surface to Air and other military exercises.

ENR 5.2.2.4.2.2.5. EHD42

Live firing Air to Air, Surface to Air and other military exercises.

ENR 5.2.2.4.2.2.6. TSA 1A/1B

Close Air Support training and other military exercises.

Additional rule for usage:

a. all participating flights and flights crossing the TSA1 A and/or B with a clearance have to maintain 2-way radio communication with the appropriate ATC agency controlling the operations in the TSA1A and B.

b. Within the lateral limits of the TSA1B only VFR flights are allowed.
Cannot be booked when TRA72 is booked.

ENR 5.2.2.4.2.2.7. EHR2/2A/2B/2C

EHR2 Gun firing and other military exercises.
EHR2A Close Air Support. Cannot be booked within the same time frame as the TRA11 unless specific de-confliction arrangements are agreed between the involved parties.
EHR2B military exercises.
EHR2C military exercises.
EHR2A and B and C, only VFR flights are allowed.
RPAS. Usages EHR2B is limited for RPAS operations. Area is not available west of 006°03’00’’E.

ENR 5.2.2.4.2.2.8. EHR4/4A/4B/4C/4D/4E/4F

EHR 4/4A life ordonnance drops and /or live firing/shooting and other military exercises.

ENR 5.2.2.4.2.2.9. EHR 8/8A

EHR8 Live firing, RPAS operations and other military exercises.
EHR8A Live firing and other military exercises.
RPAS activities shall stay 5NM from the Schiphol TMA 1, 2 and 6 borders.

ENR 5.2.2.4.2.2.10. TSA 50, 51, 52, 53, 54, 55A, 55B, 56 and 57

RPAS operations only.
Users of the mentioned areas shall inform MilATCC Supervisor (SV) before starting and when ending the activities. User of the TSA 57 shall also inform Woensdrecht ATC before starting and when ending activities.
TSA 52, 53 and 54 have priority over the usage of the GLV III and GLV VII.

ENR 5.2.2.4.2.2.11. TRA 10A/10B

TRA10A basically Air to Air and other military exercises.
TRA10B Air to Air and other military exercises, mainly outside UDP. ATC has priority inside UDP.

ENR 5.2.2.4.2.2.12. TRA 11

Primary for transit RPAS form EHLW into TRA10A.
Other military exercises after approval ATC, ATC has priority.
TRA11 cannot be booked within the same time frame as the EHR2A except when used for RPAS transit operations only.

ENR 5.2.2.4.2.2.13. TRA12/12A

TRA12/12A basically Air to Air and other military exercises.
TRA12A shall be booked in combination with the ED-R 312.
During summer time period as published in AIP Netherlands TRA 12/12A can only be booked MON-FRI 0600-1500UTC.
TSA 1A and TRA 72 have priority in usage over the TRA 12.

ENR 5.2.2.4.2.2.14. TRA58

Para jumping only.

ENR 5.2.2.4.2.2.15. TRA72

Close Air Support training.
Additional rule for usage:

> All participating flights and flights crossing the area with a clearance have to maintain 2-way radio communication with the appropriate ATC agency.

Cannot be booked when TSA1A/1B is booked.

ENR 5.2.2.4.2.2.16. TRA80

Air Transport exercises, and other military exercises.
Priority is with Air Transport.
RPAS approved with the restriction that operations are not allowed above FL045 for the part located in the NW Milligen TMA B.
EHR 9 and TSA17 have priority.
Usage TRA80 and TRA83 shall be de-conflicted.
Additional rule for usage:

> All participating flights and flights crossing the area with a clearance have to maintain 2-way radio communication with the appropriate ATC agency.

ENR 5.2.2.4.2.2.17. TRA81

VFR Helicopter operations.

ENR 5.2.2.4.2.2.18. TRA82

VFR Helicopter operations.

ENR 5.2.2.4.2.2.19. TRA83

VFR Helicopter operations.
TRA80, CTR Deelen and TSA19 have priority over the TRA 83

ENR 5.2.2.4.2.2.20. TRA84

VFR Helicopter operations and other military exercises.
EHR 9 and TSA 54 have priority over the TRA 84.

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	300° MAG/4 NM EINDHOVEN
3	Elevation/Reference temperature	+74 ft AMSL/22.3o C (JUL)
4	MAG VAR/Annual change	0º58'E (JAN 2015)/9'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 EHEHZTZX
6	Types of TFC permitted (IFR/VFR)	IFR/VFR
7	Remarks	Nil

EHEH AD 2.3 Operational hours

1	AD OPR HR	MON/FRI 0700/1545 (0600/1445)
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 80 R/B/W/T
2	TWY width, surface and strength	Width minimal 54 ft, concrete, PCN 61 R/B/W/T
3	Remarks	TWY R2 and TWY R6: PCN 60 R/B/W/T

TERPS
INSTRUMENT DEPARTURE CHART

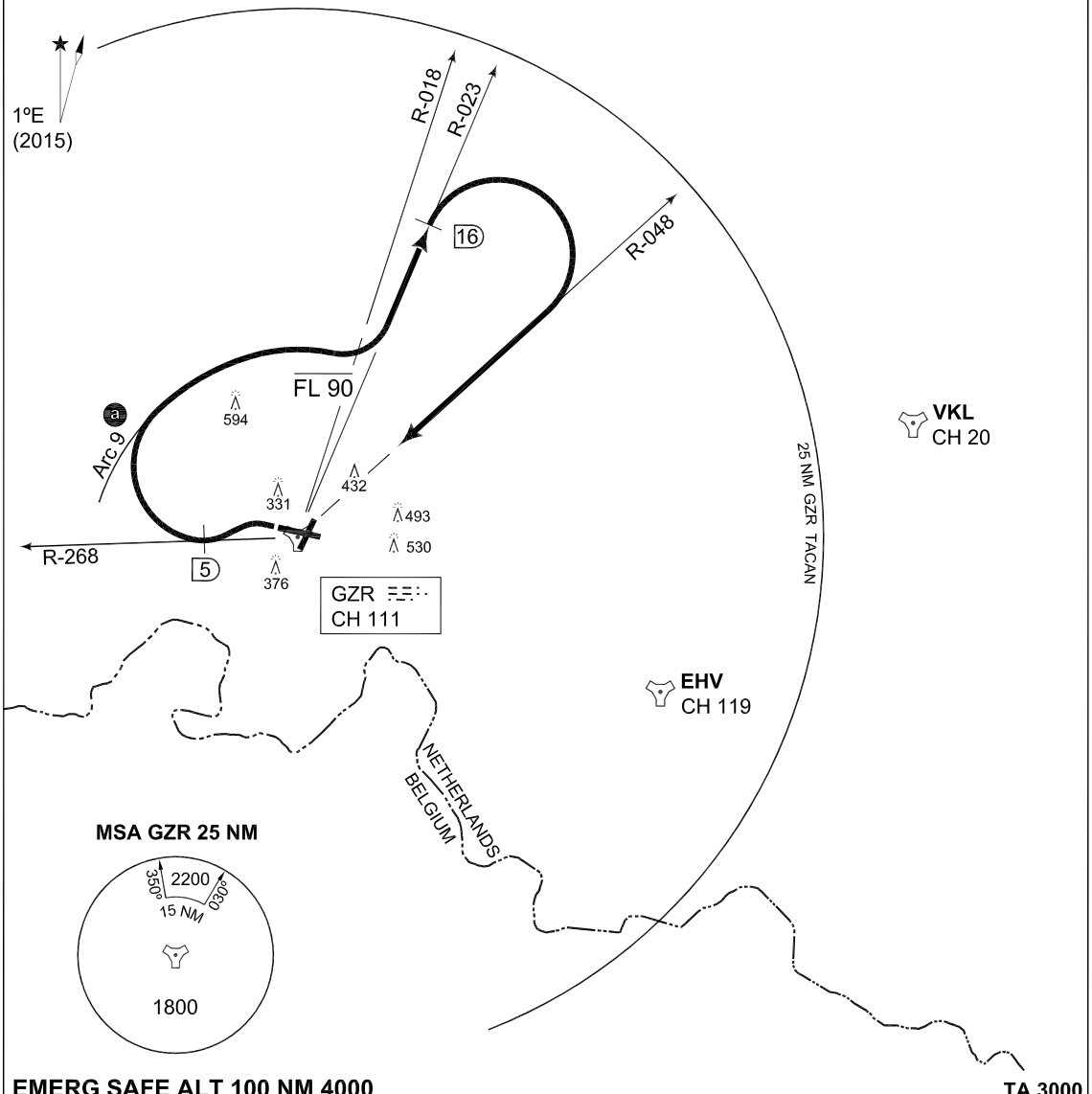
AD ELEV 49

GR1
GILZE-RIJEN (EHGR)

GND CTL	GILZE-RIJEN TWR	RAPCON WEST	DUTCH MIL
234.925 121.680	369.500 125.330	281.475 123.580	397.275 128.355

RWY	Knots	120	180	240	300	360	to
28	V/V (fpm)	480	720	960	1200	1440	150 **ft**

NOTE:
(a) DO NOT EXCEED 10 DME



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

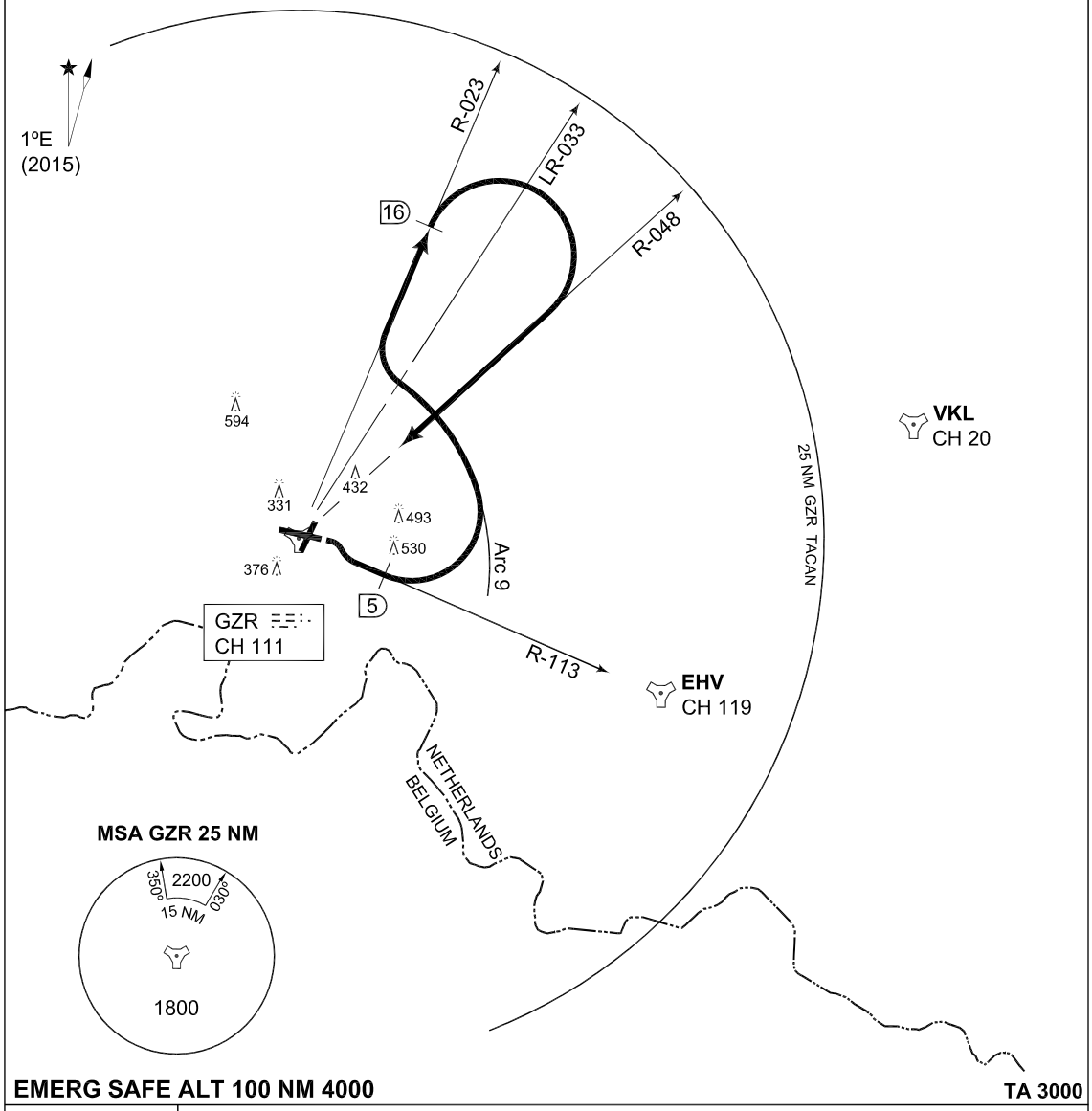
GILZE-RIJEN 1 (RWY 28)	- At 1.3 DME turn left to intercept R-268 outbound, level off at FL 90. - At 5 DME turn right to intercept Arc 9. - Intercept R-023 outbound, when crossing R-018 continue climb. - At 16 DME turn right to intercept R-048 inbound.

CHANGE: MSA

RNLAF 04 JAN 2018

TERPS
INSTRUMENT DEPARTURE CHART AD ELEV 49 **GR3**
GILZE-RIJEN (EHGR)

GND CTL	GILZE-RIJEN TWR	RAPCON WEST	DUTCH MIL
234.925 121.680	369.500 125.330	281.475 123.580	397.275 128.355



GILZE-RIJEN 3 (RWY 10)	- At 1 DME turn right to intercept R-113 outbound. - At 5 DME turn left to intercept Arc 9. - When crossing R-033 turn right to intercept R-023 outbound. - At 16 DME turn right to intercept R-048 inbound.

CHANGES: MSA

RNLAF 04 JAN 2018

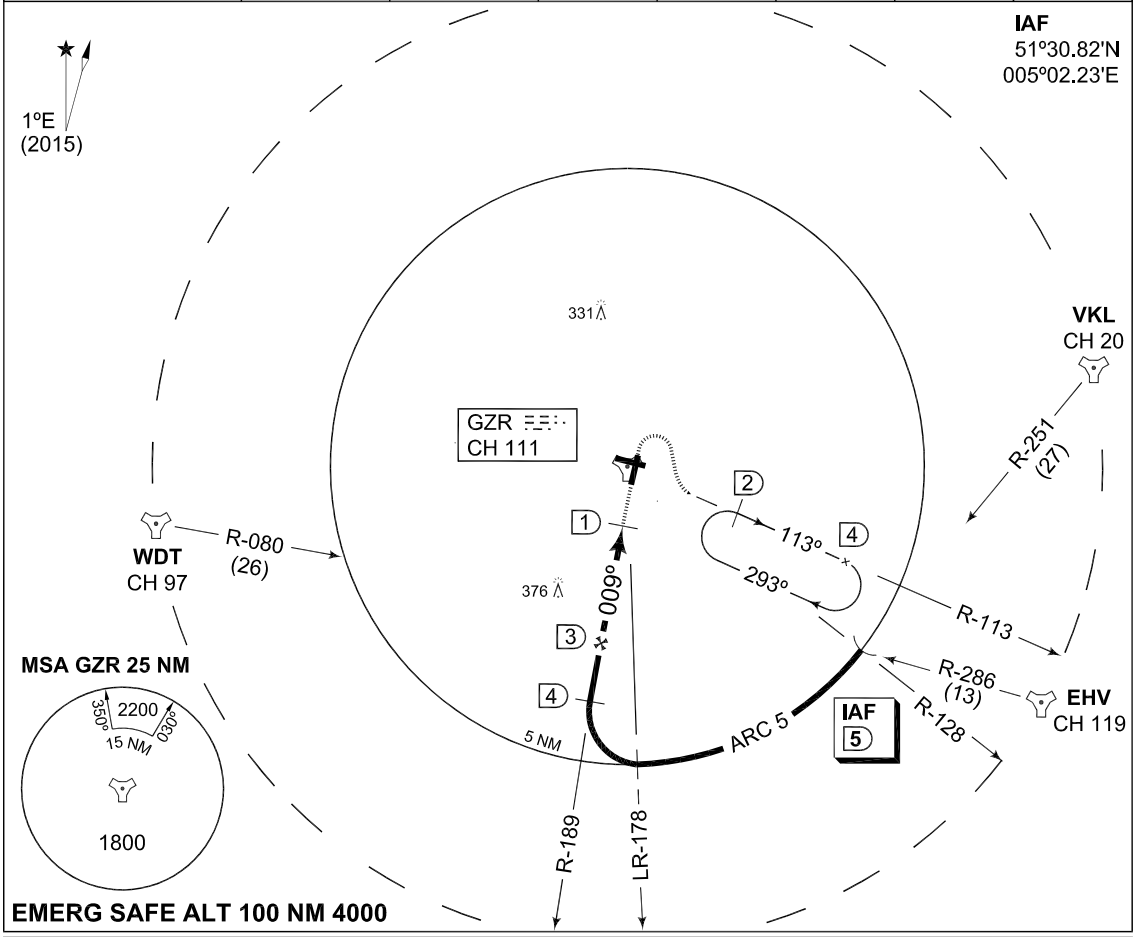
MIPS
INSTRUMENT APPROACH CHART

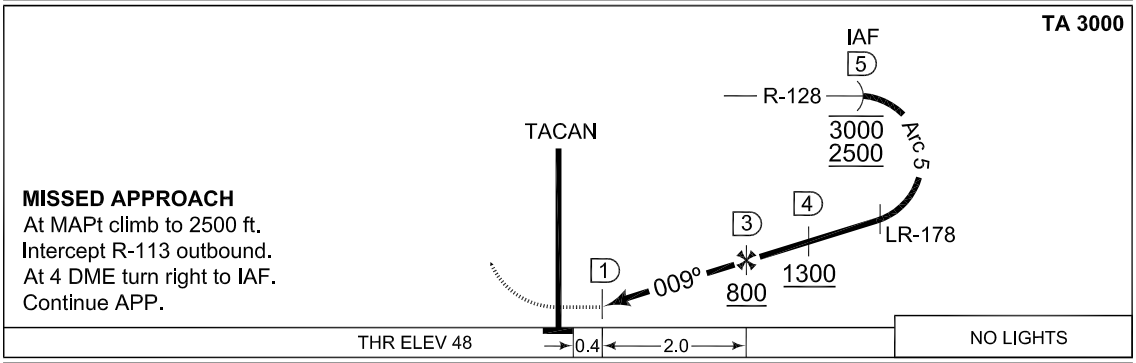
AD ELEV 49

COPTER TACAN 009
GILZE-RIJEN (EHGR)

DUTCH MIL	RAPCON WEST	GILZE-RIJEN TWR	GND CTL
397.275 128.355	281.475 123.580	369.500 125.330	234.925 121.680

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
GZR CH 111	009°	800 FT		**460**	48	-	6249 FT





CATEGORY	COPTER
S-TACAN 009	**460** -800 412 (500-0.8)
CIRCLING	**540** -1900 491 (500-1.9)

CHANGES: MSA MIPS

RNLAF 04 JAN 2018

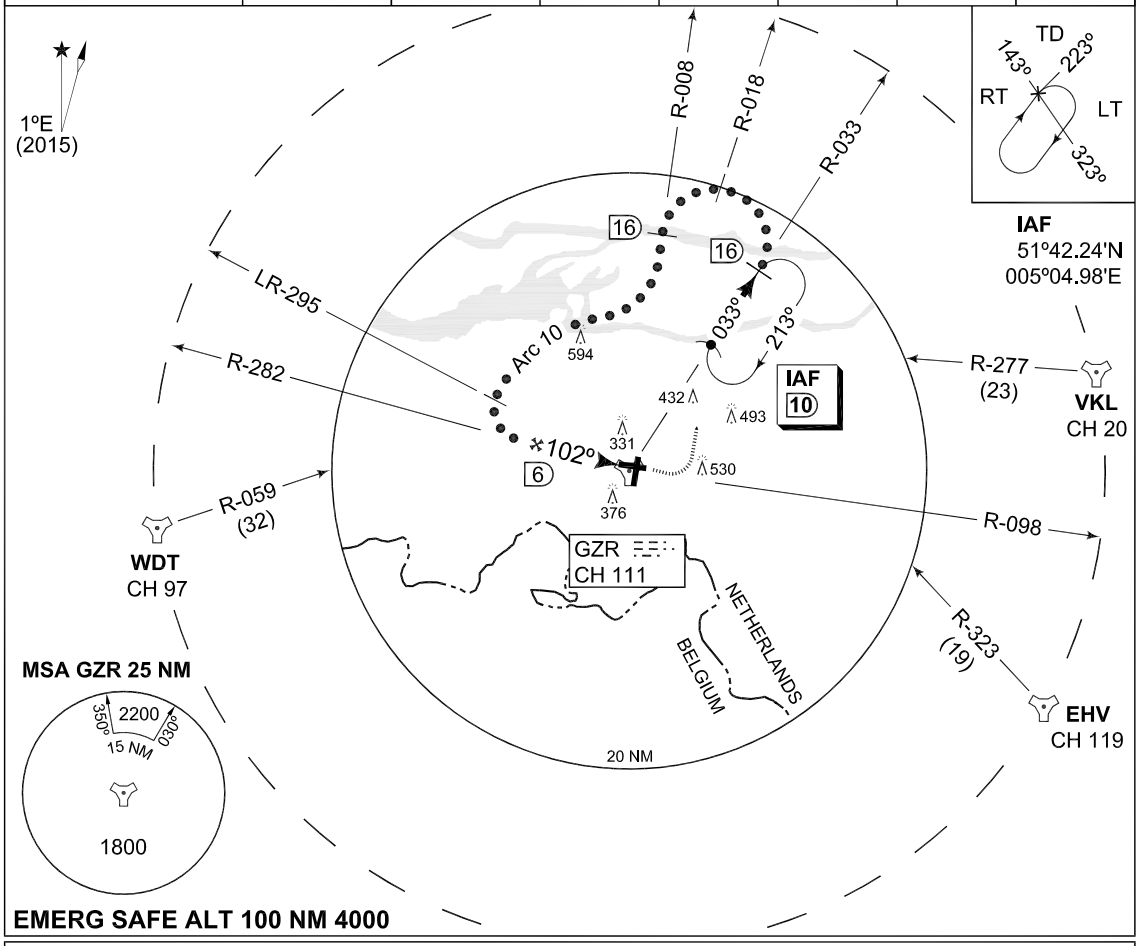
MIPS
INSTRUMENT APPROACH CHART

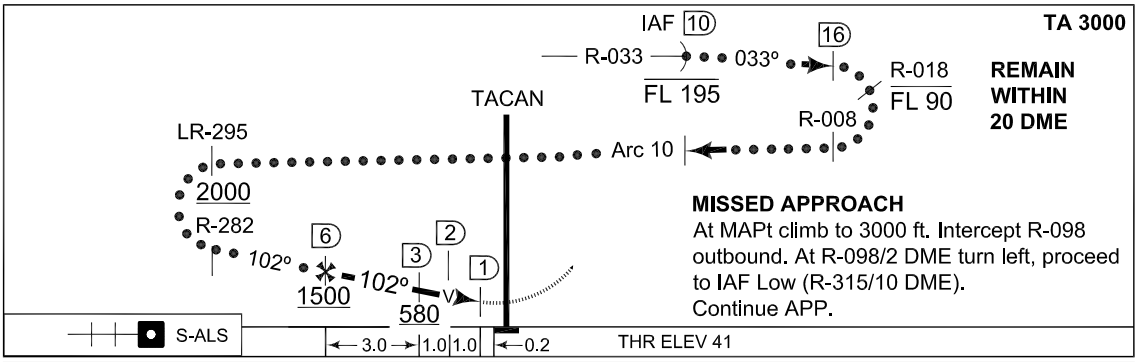
AD ELEV 49

HI-TACAN RWY 10
GILZE-RIJEN (EHGR)

DUTCH MIL	RAPCON WEST	GILZE-RIJEN TWR	GND CTL
397.275 128.355	281.475 123.580	369.500 125.330	234.925 121.680

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
GZR CH 111	102°	1500 FT		**440**	41	420 m	8672 FT





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)

CHANGES: MSA MIPS

RNLAF 04 JAN 2018

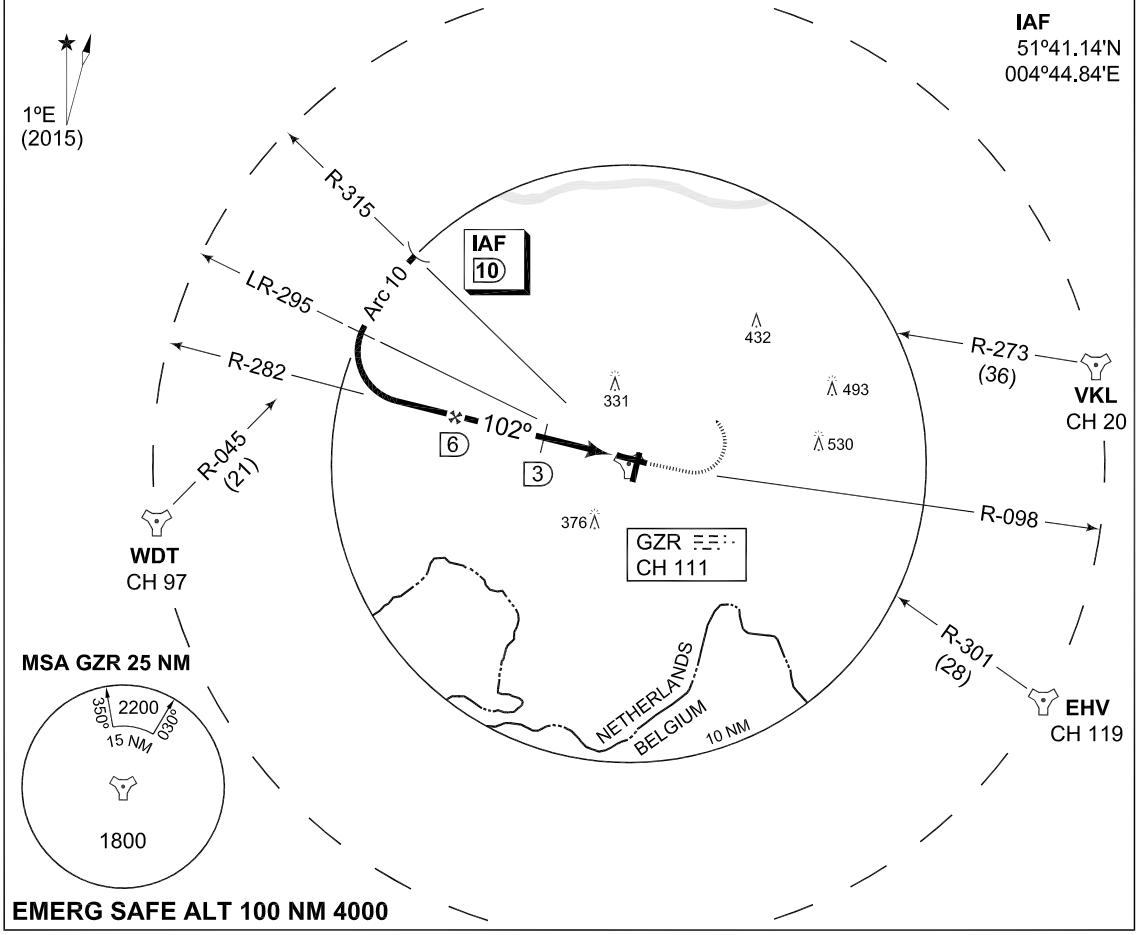
MIPS
INSTRUMENT APPROACH CHART

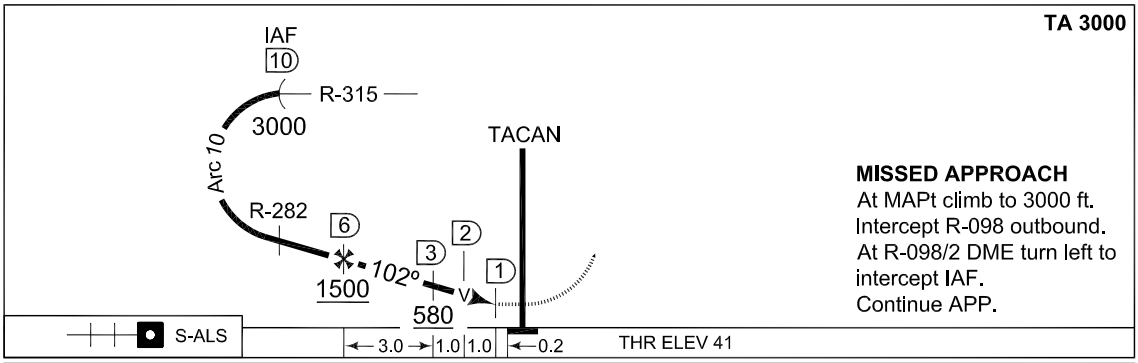
AD ELEV 49

TACAN RWY 10
GILZE-RIJEN (EHGR)

DUTCH MIL	RAPCON WEST	GILZE-RIJEN TWR	GND CTL
397.275 128.355	281.475 123.580	369.500 125.330	234.925 121.680

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
GZR CH 111	102°	1500 FT		**440**	41	420 m	8672 FT

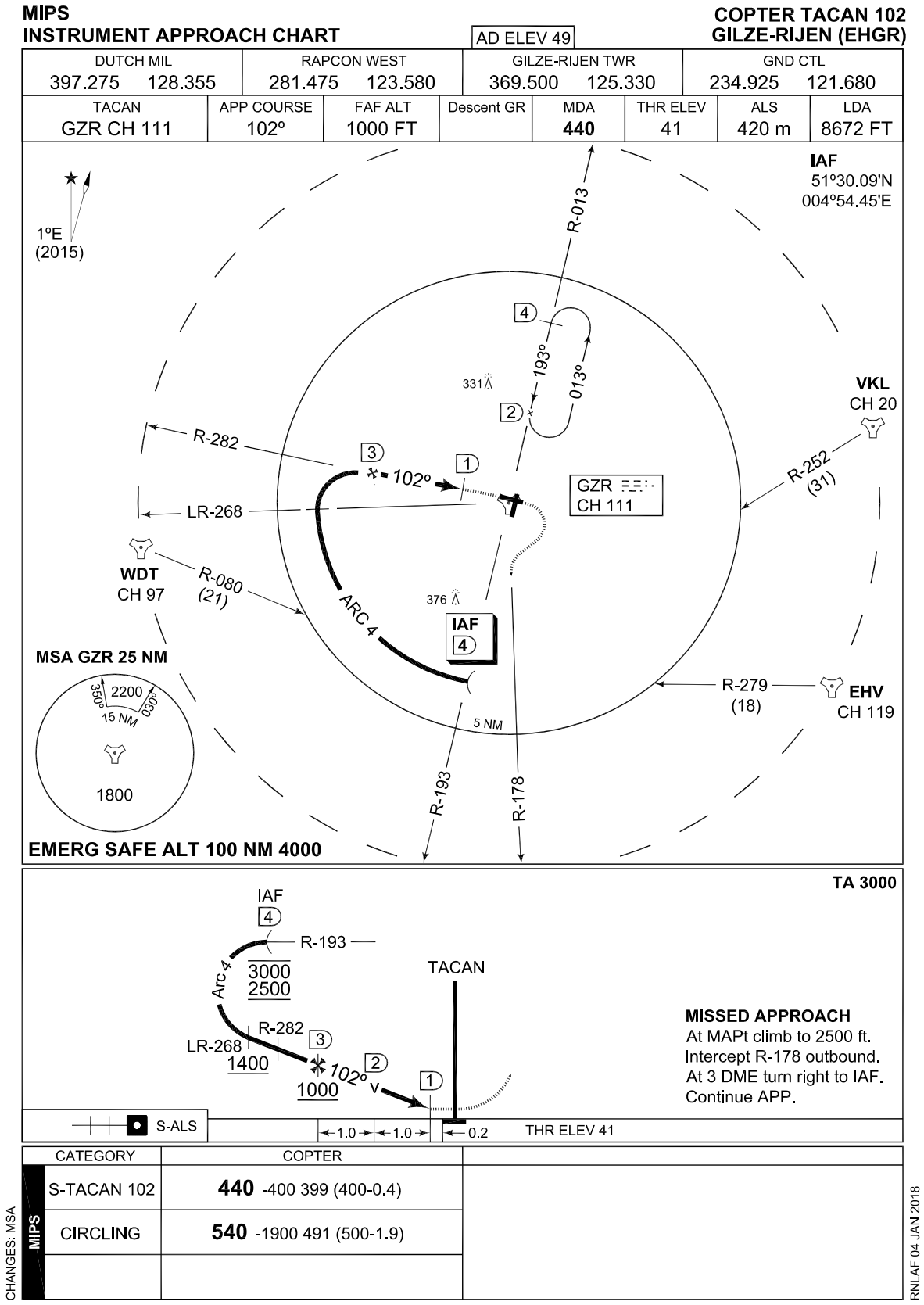




CATEGORY	A	B	C	D	E
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
S-TACAN 10	**440** -1.6 399 (400-1.6)				**440** -2.0 399 (400-2.0)
CIRCLING	**540** -1900 491 (500-1.9)	**670** -2800 621 (700-2.8)	**770** -3700 721 (800-3.7)	**910** -4600 861 (900-4.6)	**1000** -6500 951 (1000-6.5)

CHANGES: MSA MIPS

RNLAF 04 JAN 2018


MIPS
INSTRUMENT APPROACH CHART
AD ELEV 49
COPTER TACAN 102
GILZE-RIJEN (EHGR)
DUTCH MIL 397.275 128.355
RAPCON WEST 281.475 123.580
GILZE-RIJEN TWR 369.500 125.330
GND CTL 234.925 121.680
TACAN GZR CH 111
APP COURSE 102º
FAF ALT 1000 FT
Descent GR
MDA 440
THR ELEV 41
ALS 420 m
LDA 8672 FT
IAF
51º30.09'N
004º54.45'E
1ºE (2015)
R-013
193º
013º
331
VKL CH 20
R-282
R-252 (31)
102º
LR-268
GZR CH 111
WDT CH 97
R-080 (21)
ARC 4
376
IAF 4
MSA GZR 25 NM
350º
2200
030º
15 NM
1800
5 NM
R-279 (18)
EHV CH 119
R-193
R-178
EMERG SAFE ALT 100 NM 4000
TA 3000
IAF 4
R-193
3000
2500
Arc 4
TACAN
R-282
LR-268
1400
1000
102º
MISSED APPROACH
At MAPt climb to 2500 ft.
Intercept R-178 outbound.
At 3 DME turn right to IAF.
Continue APP.
S-ALS
1.0
1.0
0.2
THR ELEV 41
CATEGORY
COPTER
S-TACAN 102
440 -400 399 (400-0.4)
CIRCLING
540 -1900 491 (500-1.9)
CHANGES: MSA
MIPS
RNLAF 04 JAN 2018

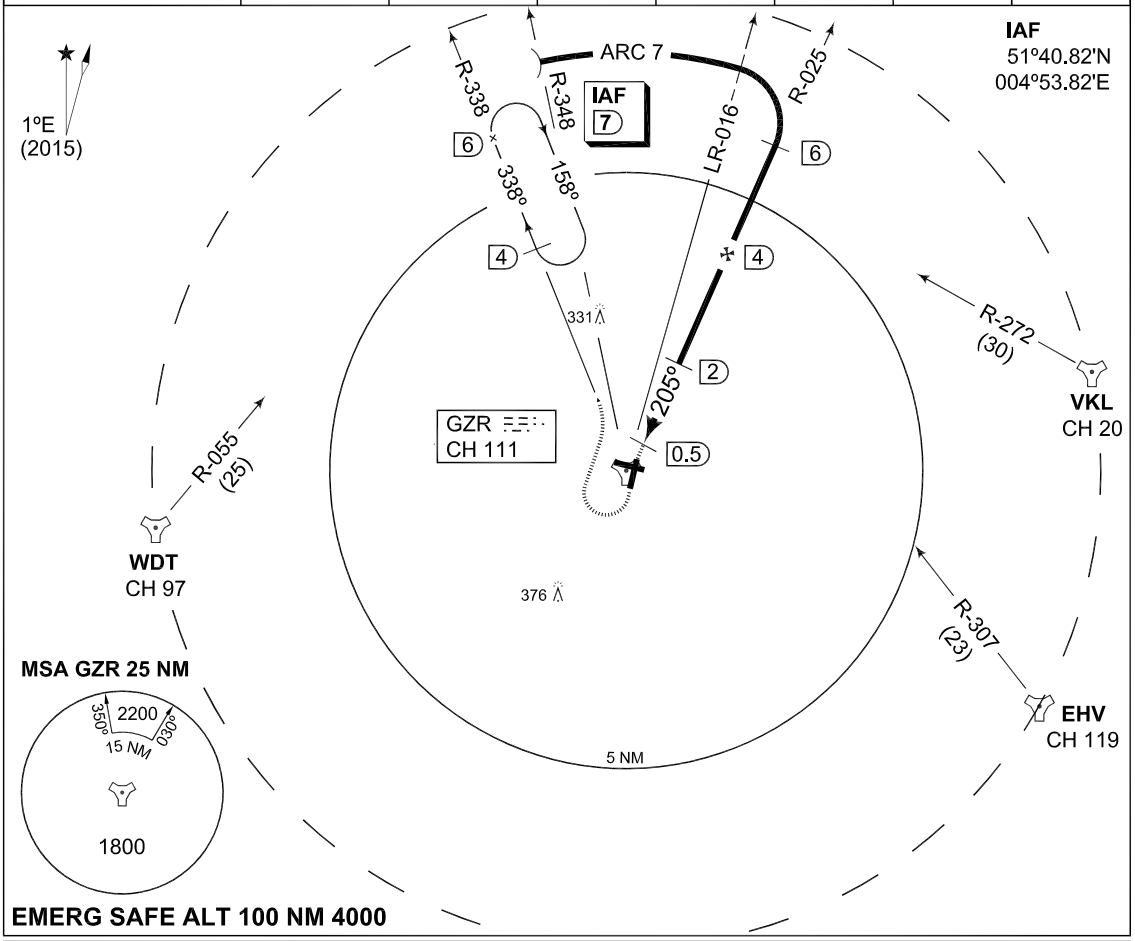
MIPS
INSTRUMENT APPROACH CHART

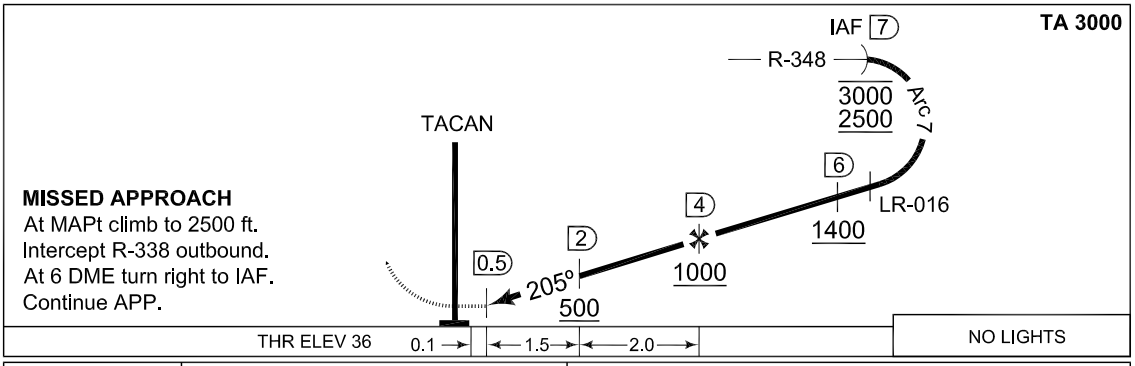
AD ELEV 49

COPTER TACAN 205
GILZE-RIJEN (EHGR)

DUTCH MIL	RAPCON WEST	GILZE-RIJEN TWR	GND CTL
397.275 128.355	281.475 123.580	369.500 125.330	234.925 121.680

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
GZR CH 111	205°	1000 FT		**420**	36	-	6181 FT





CATEGORY	COPTER
S-TACAN 205	**420** -800 384 (400-0.8)
CIRCLING	**540** -1900 491 (500-1.9)

CHANGES: MSA MIPS

RNLAF 04 JAN 2018

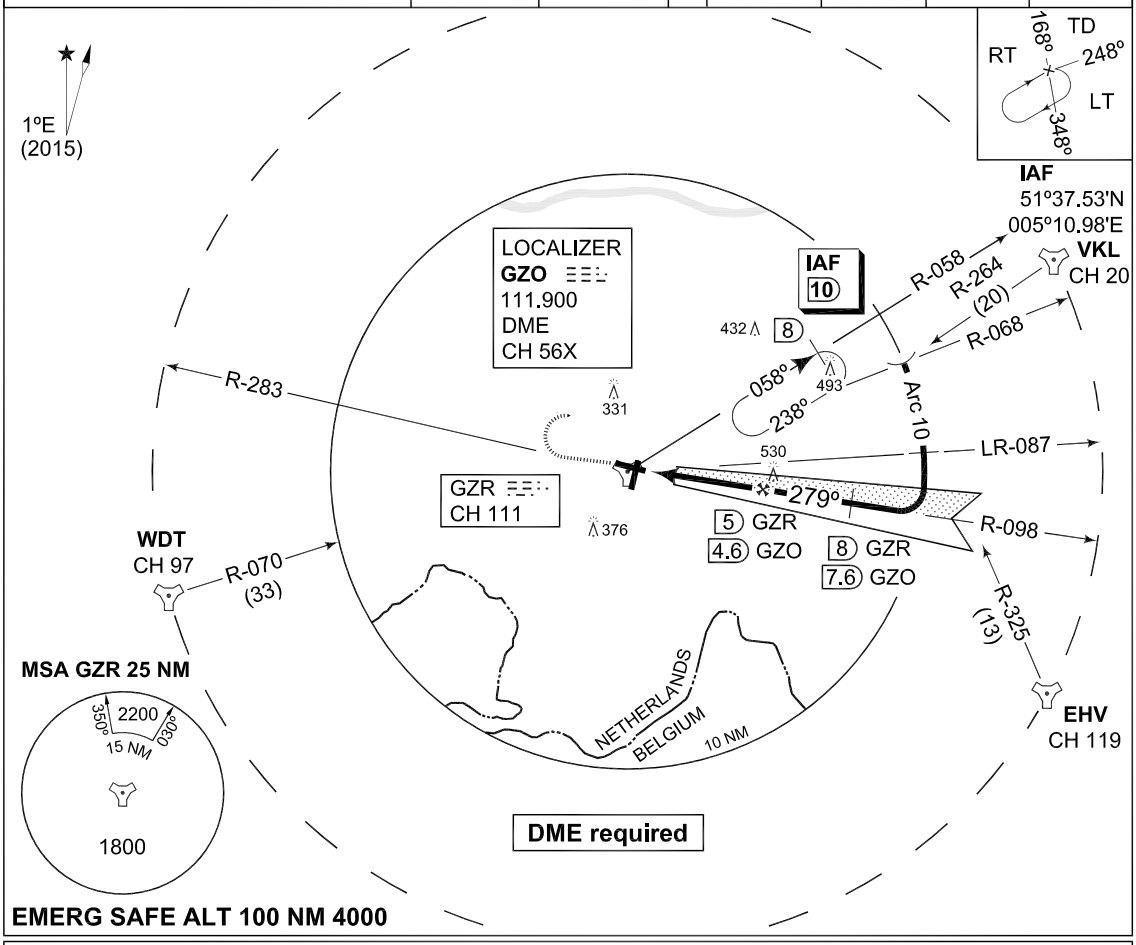
MIPS
INSTRUMENT APPROACH CHART

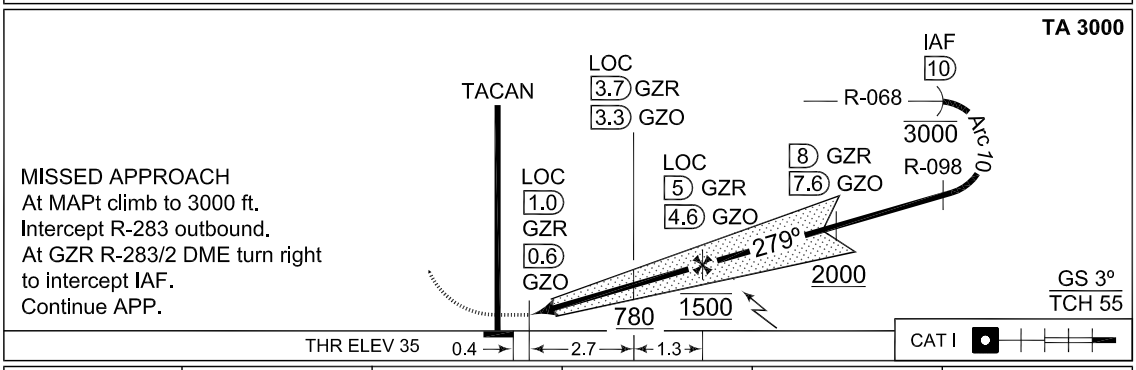
AD ELEV 49

ILS or LOC RWY 28
GILZE-RIJEN (EHGR)

DUTCH MIL	RAPCON WEST	GILZE-RIJEN TWR	GND CTL
397.275 128.355	281.475 123.580	369.500 125.330	234.925 121.680

TACAN / LOCALIZER / DME	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS	LDA
GZR CH 111/GZO 111.900/CH 56X	279°	1500 FT	3°	**SEE CAT**	35	780 m	8806 FT





CATEGORY	COPTER	A	B	C	D
	ILS MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
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)

MIPS
CHANGES: MSA
RNLAF 04 JAN 2018

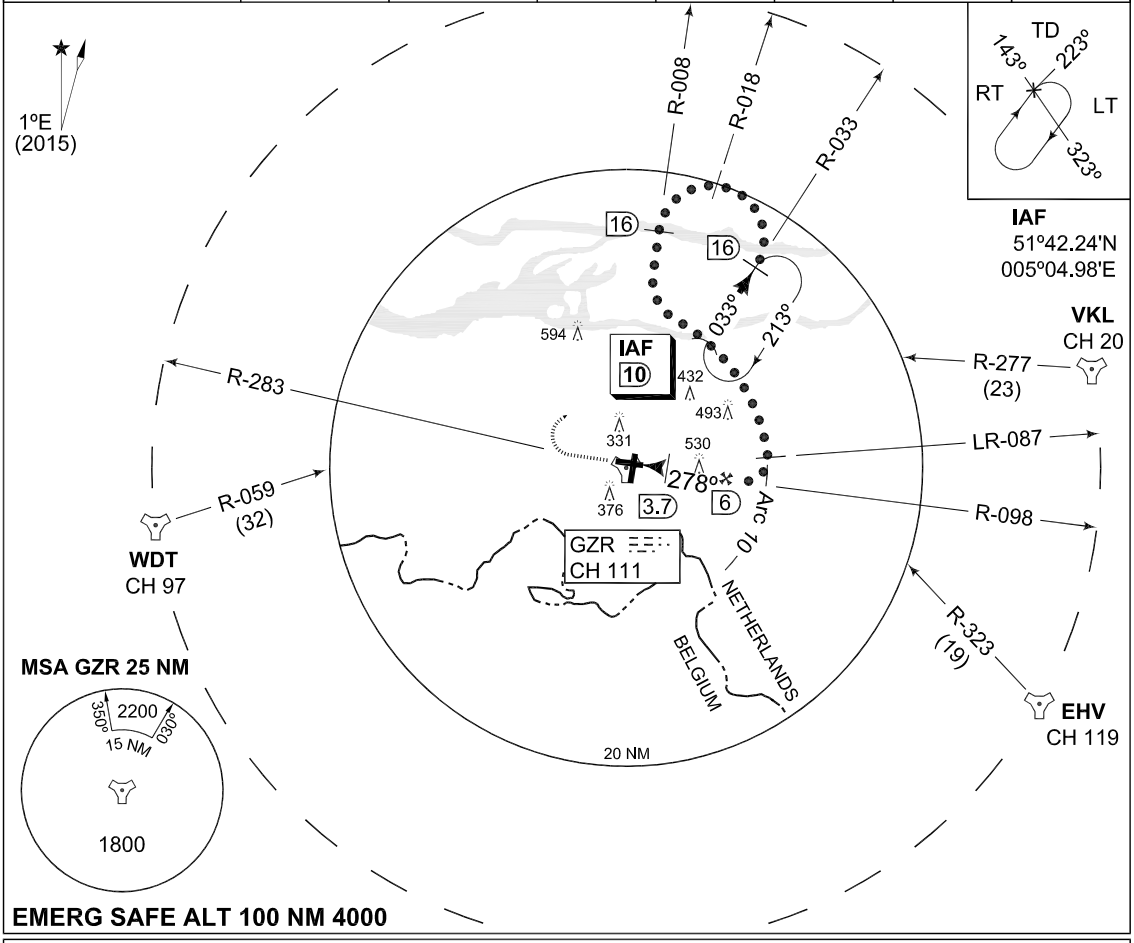
MIPS
INSTRUMENT APPROACH CHART

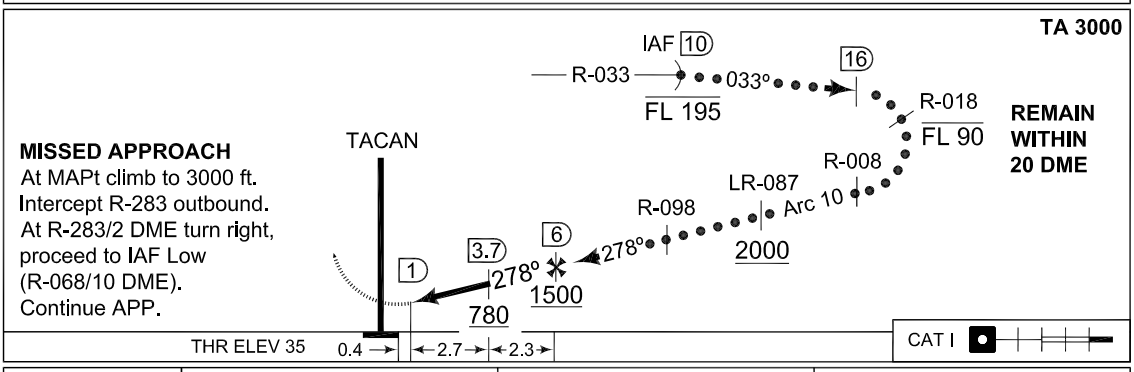
AD ELEV 49

HI-TACAN RWY 28
GILZE-RIJEN (EHGR)

DUTCH MIL	RAPCON WEST	GILZE-RIJEN TWR	GND CTL
397.275 128.355	281.475 123.580	369.500 125.330	234.925 121.680

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
GZR CH 111	278°	1500 FT		**400**	35	780 m	8806 FT





MISSED APPROACH
At MAPt climb to 3000 ft.
Intercept R-283 outbound.
At R-283/2 DME turn right,
proceed to IAF Low
(R-068/10 DME).
Continue APP.

CATEGORY	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	**770** -3700 721 (800-3.7)	**910** -4600 861 (900-4.6)	**1000** -6500 951 (1000-6.5)

CHANGES: MSA MIPS

RNLAF 04 JAN 2018

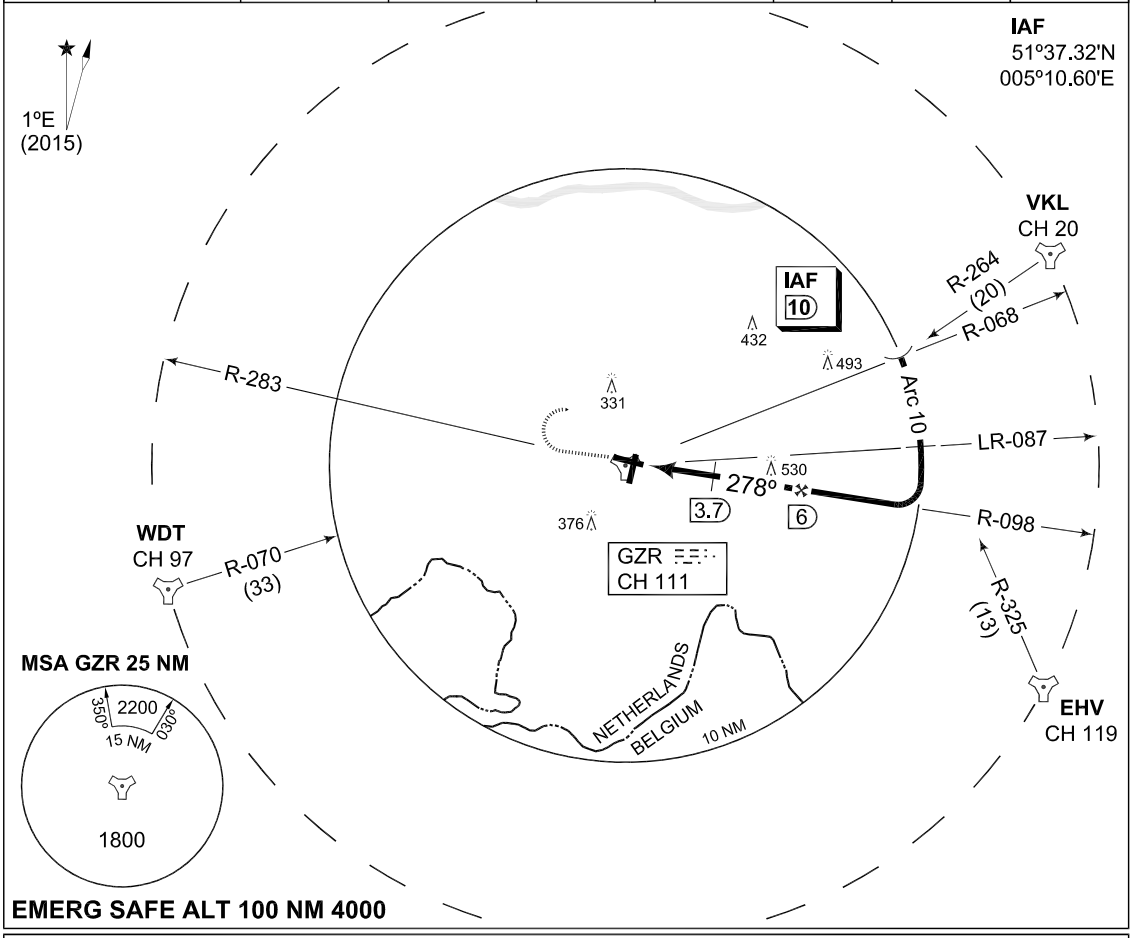
MIPS
INSTRUMENT APPROACH CHART

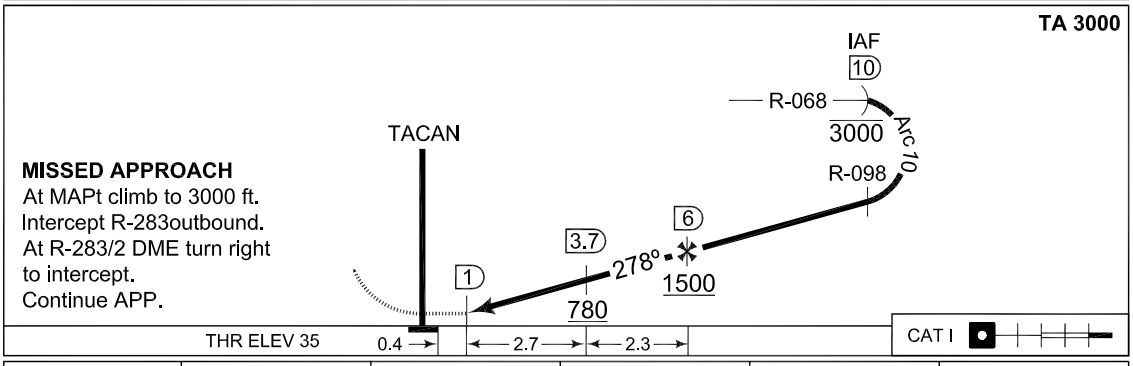
AD ELEV 49

TACAN RWY 28
GILZE-RIJEN (EHGR)

DUTCH MIL	RAPCON WEST	GILZE-RIJEN TWR	GND CTL
397.275 128.355	281.475 123.580	369.500 125.330	234.925 121.680

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
GZR CH 111	278°	1500 FT		**400**	35	780 m	8806 FT

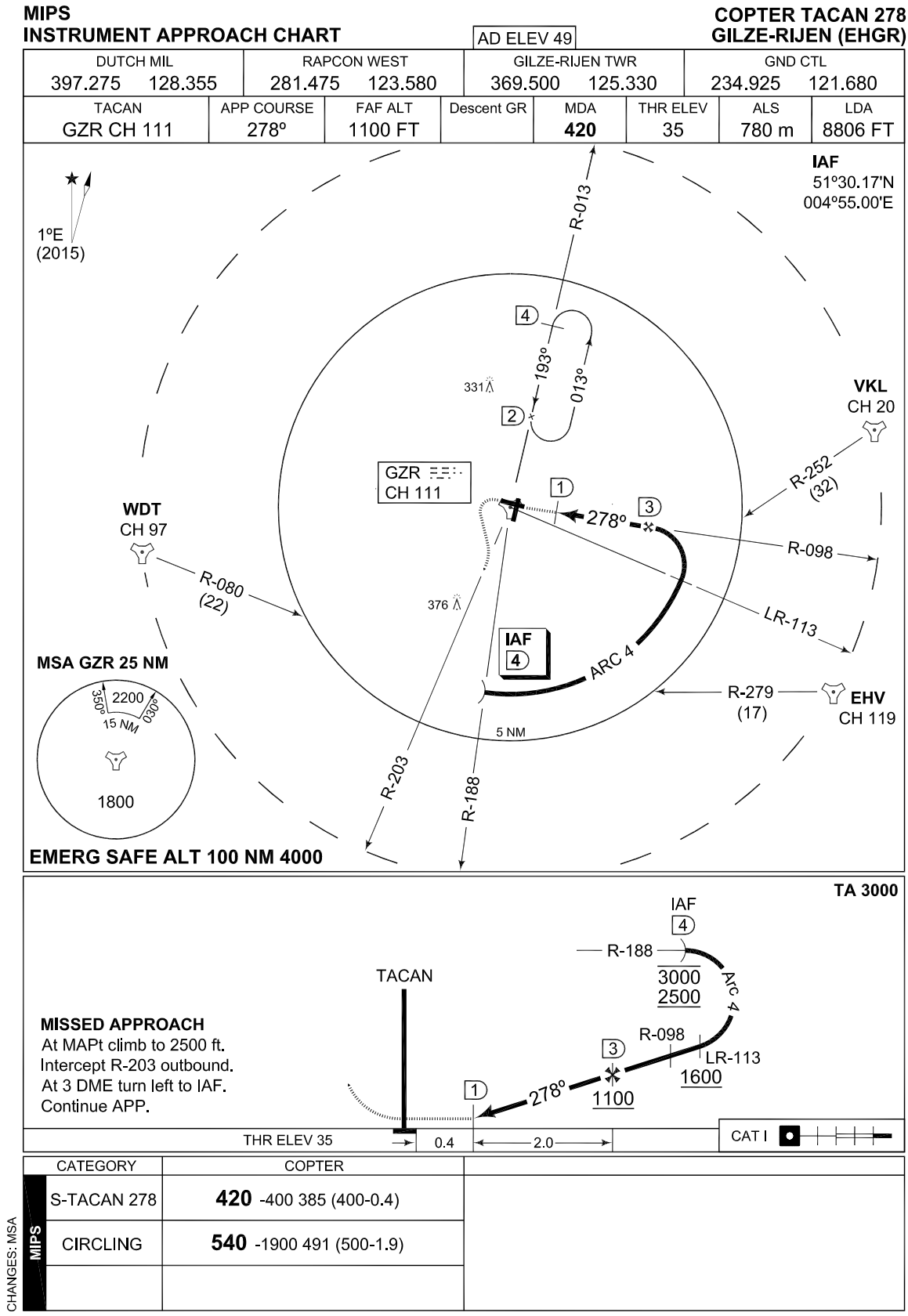




CATEGORY	A	B	C	D	E
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
S-TACAN 28	**400** -800 365 (400-0.8)			**400** -1200 365 (400-1.2)	
CIRCLING	**540** -1900 491 (500-1.9)	**670** -2800 621 (700-2.8)	**770** -3700 721 (800-3.7)	**910** -4600 861 (900-4.6)	**1000** -6500 951 (1000-6.5)

CHANGES: MSA MIPS

RNLAF 04 JAN 2018


MIPS
INSTRUMENT APPROACH CHART
AD ELEV 49
COPTER TACAN 278
GILZE-RIJEN (EHGR)
DUTCH MIL 397.275 128.355
RAPCON WEST 281.475 123.580
GILZE-RIJEN TWR 369.500 125.330
GND CTL 234.925 121.680
TACAN GZR CH 111
APP COURSE 278°
FAF ALT 1100 FT
Descent GR
MDA 420
THR ELEV 35
ALS 780 m
LDA 8806 FT
IAF
51°30.17'N
004°55.00'E
1°E
(2015)
R-013
193°
013°
331
VKL
CH 20
R-252
(32)
GZR
CH 111
WDT
CH 97
278°
R-098
R-080
(22)
LR-113
376
IAF
ARC 4
MSA GZR 25 NM
350°
2200
030°
15 NM
1800
R-279
(17)
EHV
CH 119
5 NM
R-203
R-188
EMERG SAFE ALT 100 NM 4000
TA 3000
IAF
R-188
3000
2500
ARC 4
TACAN
R-098
LR-113
1600
1100
278°
MISSED APPROACH
At MAPt climb to 2500 ft.
Intercept R-203 outbound.
At 3 DME turn left to IAF.
Continue APP.
THR ELEV 35
0.4
2.0
CAT I
CATEGORY
COPTER
S-TACAN 278
420 -400 385 (400-0.4)
CIRCLING
540 -1900 491 (500-1.9)
MIPS
CHANGES: MSA
RNLAF 04 JAN 2018

INTENTIONALLY LEFT BLANK

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 appoved climb after take-off to 1000 ft. The following departures have been established.

a. Whiskey departure: proceed via Hotel to Whiskey.

b. Oscar depature: 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
(HDR R-029 3.8 DME / 52°57’52”N 004°48’12”E).

Bravo: Intersection Zandvaart/Balgzandkanaal
(HDR R-102 2.4 DME /52°54’08”N004°49’58”E).

Echo: South-east bank of Amstelmeer
(HDR R-112 6.7 DME / 52°52’19”N 004°56’08”E).

Romeo: Intersection N9 - Callantsoogervaart
(HDR R-177 1.8 DME / 52°52’36”N 004°46’06”E).

Zulu: Bridge de Stolpen - N9 - Noordhollandskanaal
(HDR R-192 5.7 DME /52°48’52”N 004°44’25”E).

Foxtrot: Intersection Middenvliet/Zanddijk
(HDR R-291 1.9 DME /52°55’02”N 004°43’15”E).

Whiskey: Car park near beach Jan Ayeslag
(HDR R-347 7.9 DME/53°02’21’’N 004°42’58’’E).

Oscar: Fort de Schans
(HDR R-018 7.7 DME/53°01’56’’N 004°49’36’’E).

Mike: North-east corner of sandbank Noorderhaaks
(HDR R-300 5.2 DME /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 270º, 090º, 350º and 170º 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. When the visibility falls below 1500 m the ceiling becomes equal to or below 600ft[1] cautionary measures are taken.

Phase	Conditions	Procedure
A	RVR $\geq$ 1100 m Lowest RVR $\leq$ 1500 m and/or ceiling $\leq$ 600ft[1]	No opposite take-off and landings
B	RVR $\geq$ 600 m Lowest RVR $\leq$ 1100 m and/or ceiling $\leq$ 300ft[1]	All WIP on airside will be terminated during acft movement; Seperation btn fixed-wing acft and btn fixed-wing and rotary-wing will be increased to 8 Nm
C	RVR $\geq$ 300 m Lowest RVR $\leq$ 550 m and/or ceiling $\leq$ 300ft[1]	Departures only. Tfc will be reduced to "one movement a time"
D	Lowest RVR < 300 m	The airport is below operational minima for arriving and departing acft.

NOTE: [1)] In contrast to annex 2 military aerodromes define ceiling as 3/8 (SCT) or more.

LVTO - aeroplanes
RVR vs. facilities

Facilities	**RVR (m) *,****
Day: runway edge lights and runway centre line markings Night: runway edge lights and runway end lights or runway centre line lights and runway end lights	300
Runway edge lights and runway centre line lights	200
Runway edge lights and runway centre line lights	TDZ, MID, rollout 150***
High intensity runway centre line lights spaced 15 m or less and high intensity edge lights spaced 60 m or less are in operation	TDZ, MID, rollout 125***
Runway protection and facilities equivalent to CAT III landing operations are available and the aircraft is equipped either with an approved lateral guidance system or an approved HUD/HUDLS for	TDZ, MID, rollout 75

EHKD AD 2.23 Additional information

1. EHR 8 (prohibited/gunfiring) extending in the CTR. The eastboundary is east of the dunes.

2. PPR: for Prior Permission Request contact:
De Kooy Flight Information Office via e-mail: vva.ehkd@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 from ATC De Kooy through previously mentioned e-mail address.

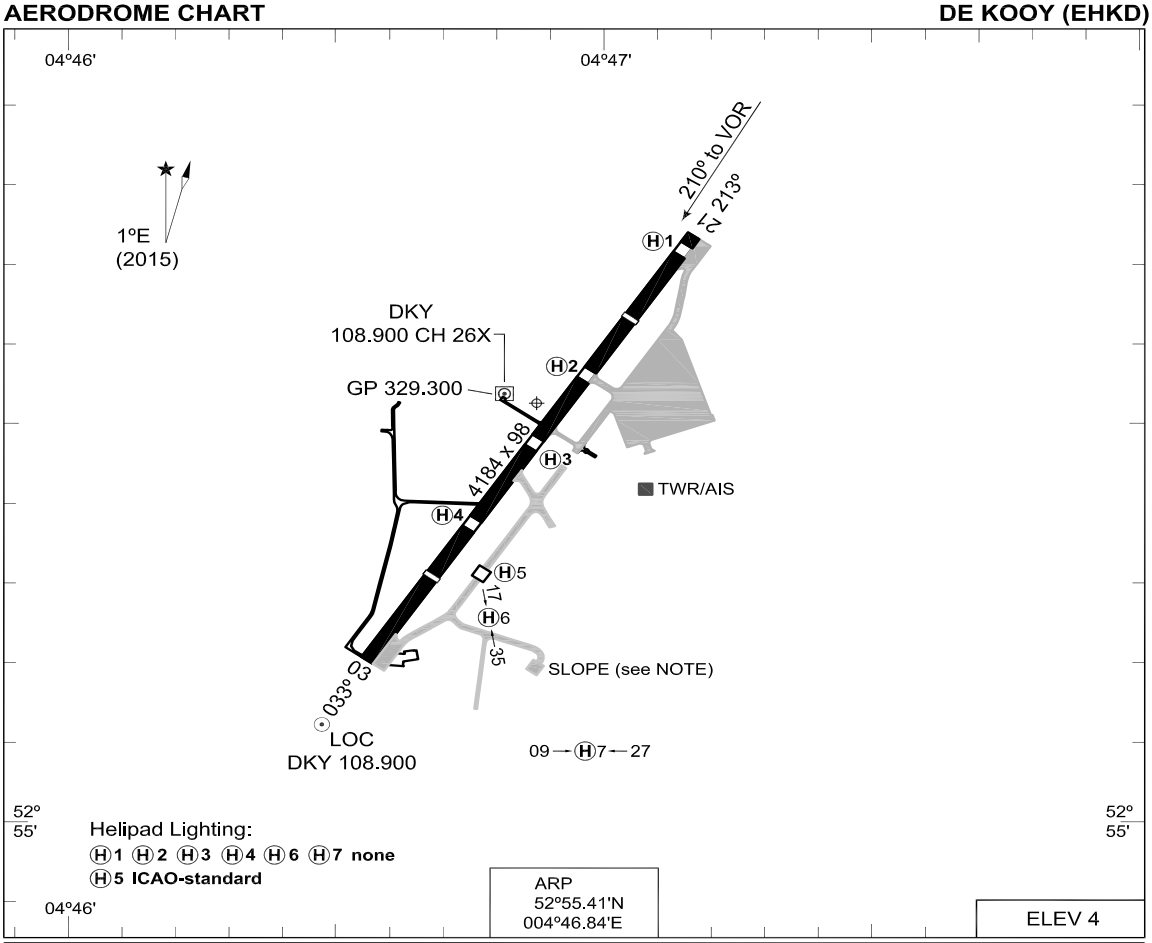
3. When intending a full stop landing at de Kooy please also include if refuel, hangar space, accommodation or other is required.

4. 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)577 458781
Tel: +31(0)20 4062841
Fax: +31(0)577 456523
E-mail: aocs.fdno@mindef.nl
AFTN: EHMCZPZX
avlbl H24

EHKD AD 2.24 Charts related to an aerodrome

Aerodrome Chart	EHKD AD 2-10
Local map	EHKD AD 2-11
Instrument approach chart VOR RWY 03	EHKD AD 2-12
Instrument approach chart COPTER VOR RWY 03	EHKD AD 2-13
Instrument approach chart ILS or LOC RWY 21	EHKD AD 2-14
Instrument approach chart VOR RWY 21	EHKD AD 2-15

MIPS
AERODROME CHART **DE KOOY (EHKD)**



RWY	LCN	TORA	ASDA	TODA	LDA				THR ELEV	THR PSN
21	62 F/A/W/T	3917	3917	4114	3113				2	52°55.58'N 004°47.03'E
03	62 F/A/W/T	3635	3635	3832	2831				3	52°55.23'N 004°46.64'E

DE KOOY TWR 234.800 120.130 121.730 or 234.800 (Ground Control)
DE KOOY ARRIVAL 341.550 124.230

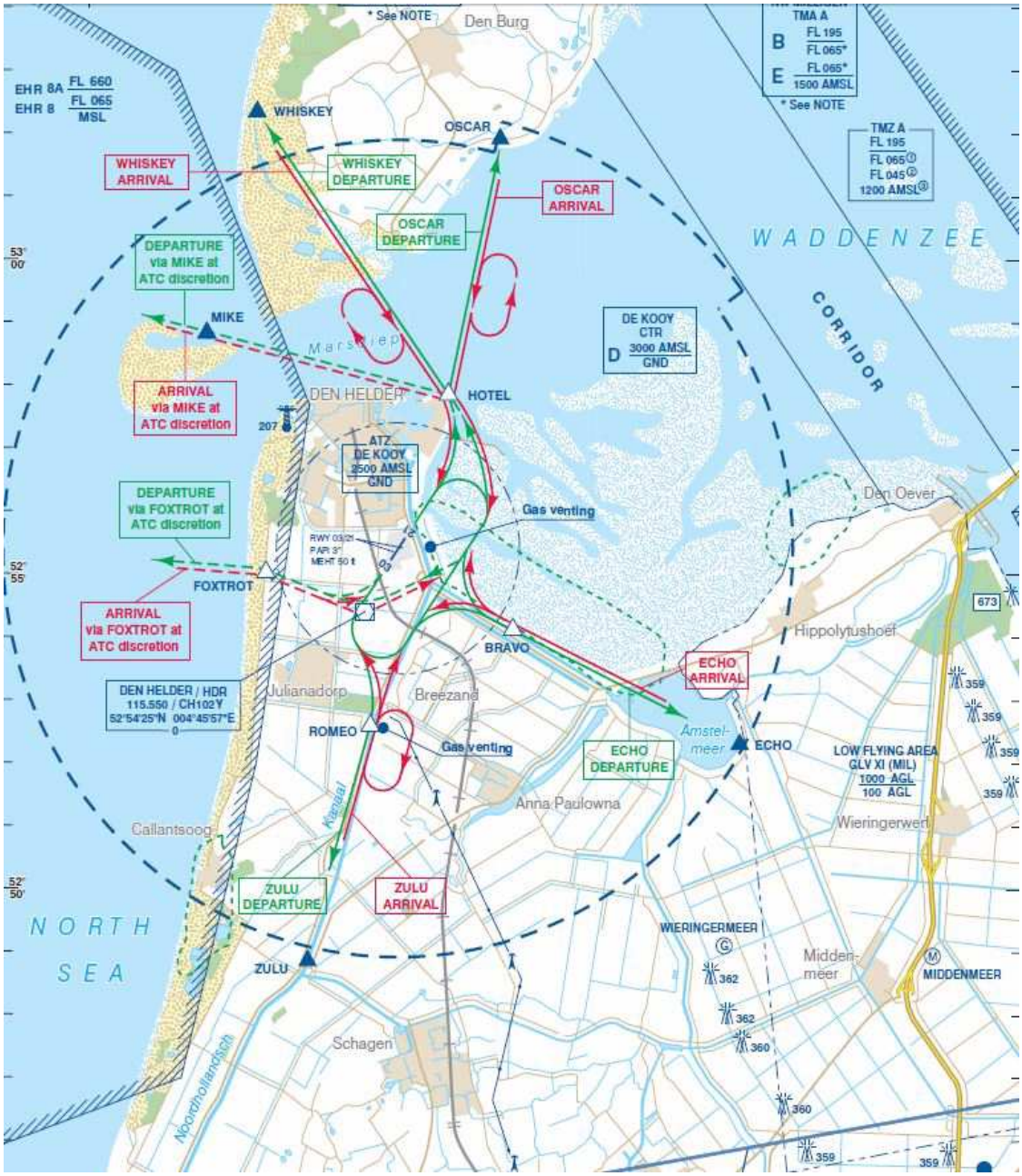
	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
SRA	MIPS	21					ABH	MIPS	500-2000 498 (500-2.0)
	MIPS	03					ABH	MIPS	380-2400 377 (400-2.4)

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

CHANGES: Magnetic variation

RNLAF 14 SEP 2017

LOCAL MAP


* See NOTE
Den Burg
TMA A
B FL 195 / FL 065*
E FL 065* / 1500 AMSL
* See NOTE
EHR 8A FL 660
EHR 8 FL 065 / MSL
WHISKEY
OSCAR
TMZ A
FL 195
FL 065
FL 045
1200 AMSL
WHISKEY ARRIVAL
WHISKEY DEPARTURE
OSCAR ARRIVAL
OSCAR DEPARTURE
WADDENZEE
DEPARTURE via MIKE at ATC discretion
MIKE
DE KOOY CTR
D 3000 AMSL / GND
CORRIDOR
Marsdiep
ARRIVAL via MIKE at ATC discretion
DEN HELDER
HOTEL
ATZ DE KOOY 2500 AMSL / GND
DEPARTURE via FOXTROT at ATC discretion
Gas venting
Den Oever
FOXTROT
ARRIVAL via FOXTROT at ATC discretion
BRAVO
Hippolytushoef
ECHO ARRIVAL
DEN HELDER / HDR 115.550 / CH102Y 52°54'25"N 004°45'57"E
Julianadorp
Breezand
ROMEO
Gas venting
ECHO DEPARTURE
Amstel-meer
ECHO
LOW FLYING AREA GLV XI (MIL) 1000 AGL / 100 AGL
Anna Paulowna
Wieringerwerf
Callantsoog
Kanaal
ZULU DEPARTURE
ZULU ARRIVAL
NORTH SEA
WIERINGERMEER
Midden-meer
MIDDENMEER
ZULU
Schagen
Noordhollandsch

MIPS
INSTRUMENT APPROACH CHART

AD ELEV 4

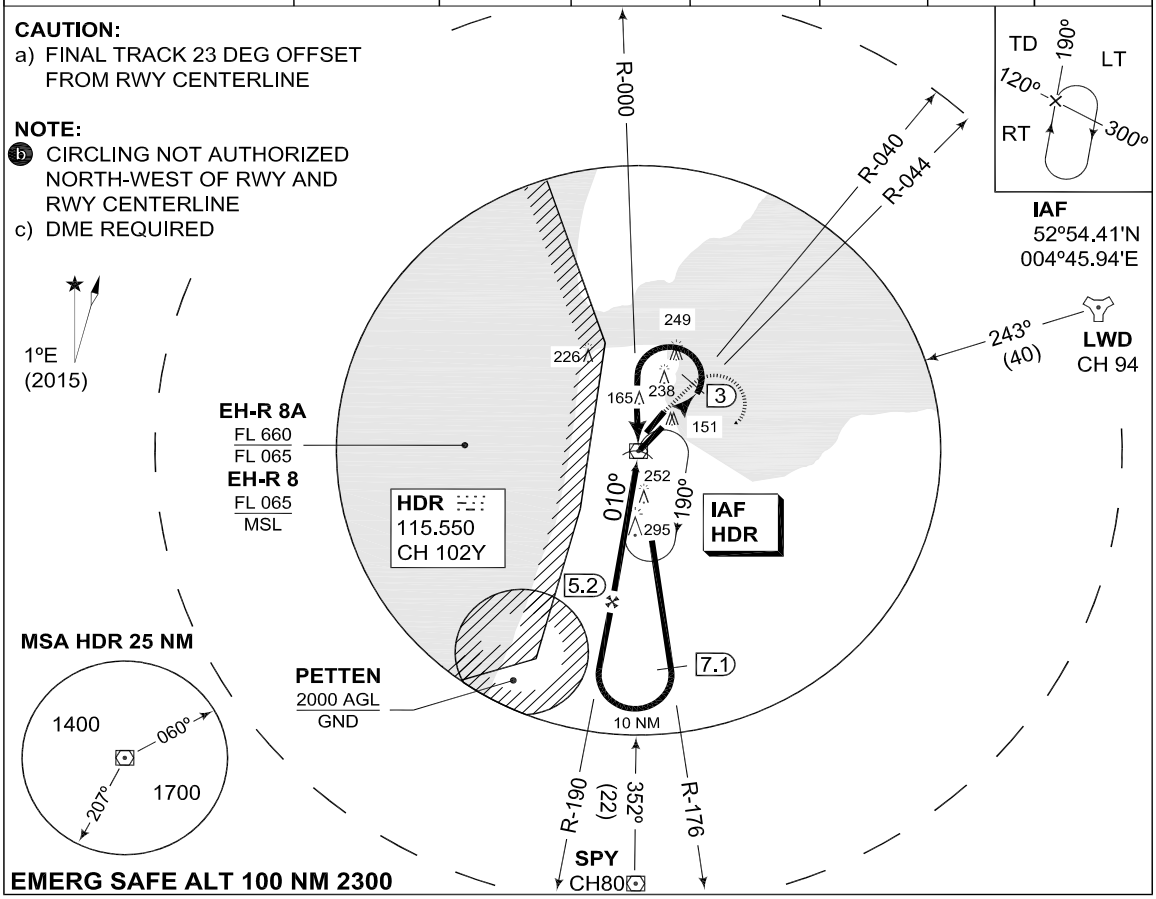
VOR RWY 03
DE KOOY (EHKD)

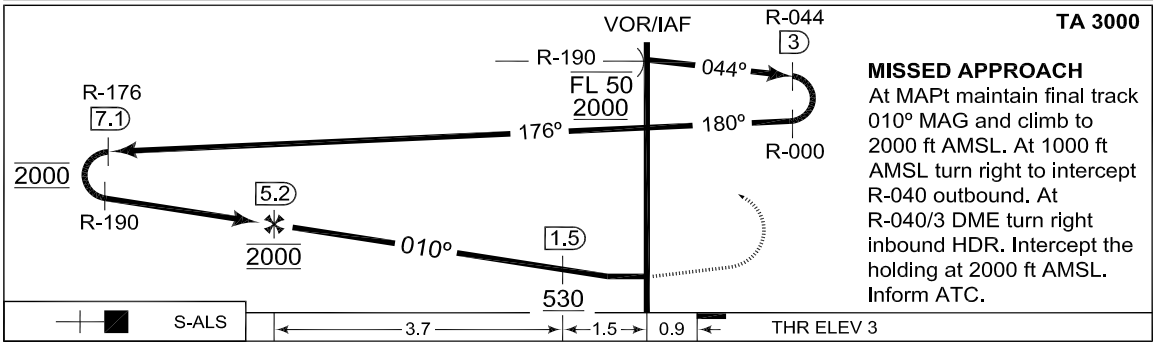
DUTCH MIL	DE KOOY ARRIVAL	DE KOOY TWR	GND CTL
397.275 128.355	341.550 124.230	234.800 120.130	234.800 121.730

VOR/DME	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
HDR 115.550 / CH 102Y	010°	2000 FT		SEE CAT	3	360 m	2831 FT

CAUTION:
a) FINAL TRACK 23 DEG OFFSET FROM RWY CENTERLINE

NOTE:
b) CIRCLING NOT AUTHORIZED NORTH-WEST OF RWY AND RWY CENTERLINE
c) DME REQUIRED





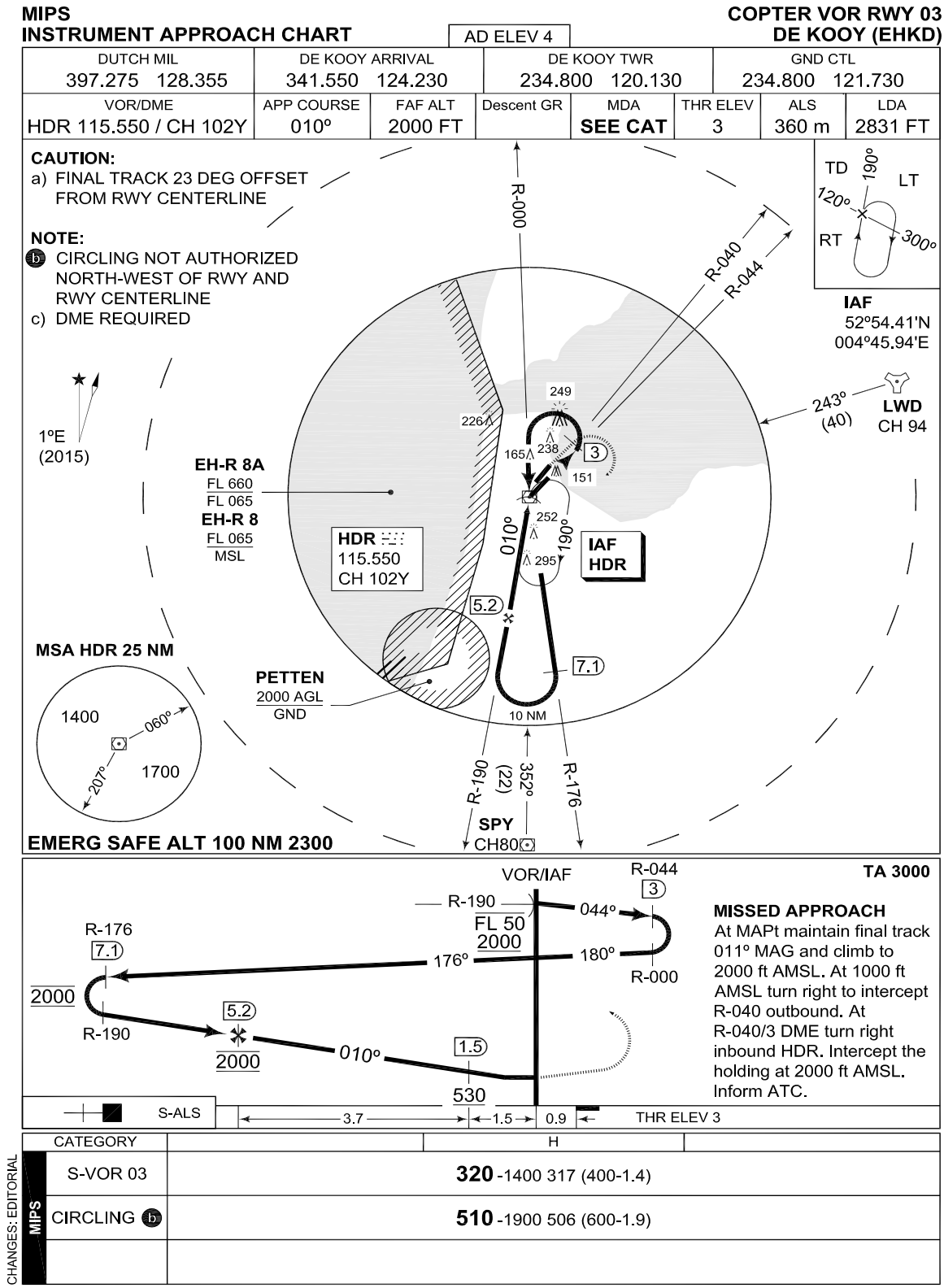
TA 3000

MISSED APPROACH
At MAPt maintain final track 010° MAG and climb to 2000 ft AMSL. At 1000 ft AMSL turn right to intercept R-040 outbound. At R-040/3 DME turn right inbound HDR. Intercept the holding at 2000 ft AMSL. Inform ATC.

CATEGORY	A	B
S-VOR 03	**430** -1400 427 (500-1.4)	**450** -1400 447 (500-1.4)
CIRCLING b	**510** -1900 506 (600-1.9)	**550** -2800 546 (600-2.8)

CHANGES: EDITORIAL MIPS

RNLAF 09 NOV 2017


MIPS
INSTRUMENT APPROACH CHART
AD ELEV 4
COPTER VOR RWY 03
DE KOOY (EHKD)
DUTCH MIL 397.275 128.355
DE KOOY ARRIVAL 341.550 124.230
DE KOOY TWR 234.800 120.130
GND CTL 234.800 121.730
VOR/DME HDR 115.550 / CH 102Y
APP COURSE 010°
FAF ALT 2000 FT
Descent GR
MDA SEE CAT
THR ELEV 3
ALS 360 m
LDA 2831 FT
CAUTION:
a) FINAL TRACK 23 DEG OFFSET FROM RWY CENTERLINE
NOTE:
b CIRCLING NOT AUTHORIZED NORTH-WEST OF RWY AND RWY CENTERLINE
c) DME REQUIRED
IAF
52°54.41'N
004°45.94'E
TD 190°
LT
120°
RT
300°
R-000
R-040
R-044
243°
(40)
LWD
CH 94
1°E
(2015)
EH-R 8A
FL 660
FL 065
EH-R 8
FL 065
MSL
HDR
115.550
CH 102Y
IAF
HDR
010°
190°
249
226
165
238
151
252
295
3
5.2
7.1
10 NM
MSA HDR 25 NM
1400
060°
207°
1700
PETTEN
2000 AGL
GND
R-190
(22)
352°
R-176
SPY
CH80
EMERG SAFE ALT 100 NM 2300
VOR/IAF
R-190
FL 50
2000
R-044
3
044°
180°
R-000
176°
R-176
7.1
2000
R-190
5.2
2000
010°
1.5
530
TA 3000
MISSED APPROACH
At MAPt maintain final track 011° MAG and climb to 2000 ft AMSL. At 1000 ft AMSL turn right to intercept R-040 outbound. At R-040/3 DME turn right inbound HDR. Intercept the holding at 2000 ft AMSL. Inform ATC.
S-ALS
3.7
1.5
0.9
THR ELEV 3
CATEGORY
H
S-VOR 03
320 -1400 317 (400-1.4)
CIRCLING b
510 -1900 506 (600-1.9)
CHANGES: EDITORIAL
MIPS
RNLAF 09 NOV 2017

MIPS
INSTRUMENT APPROACH CHART

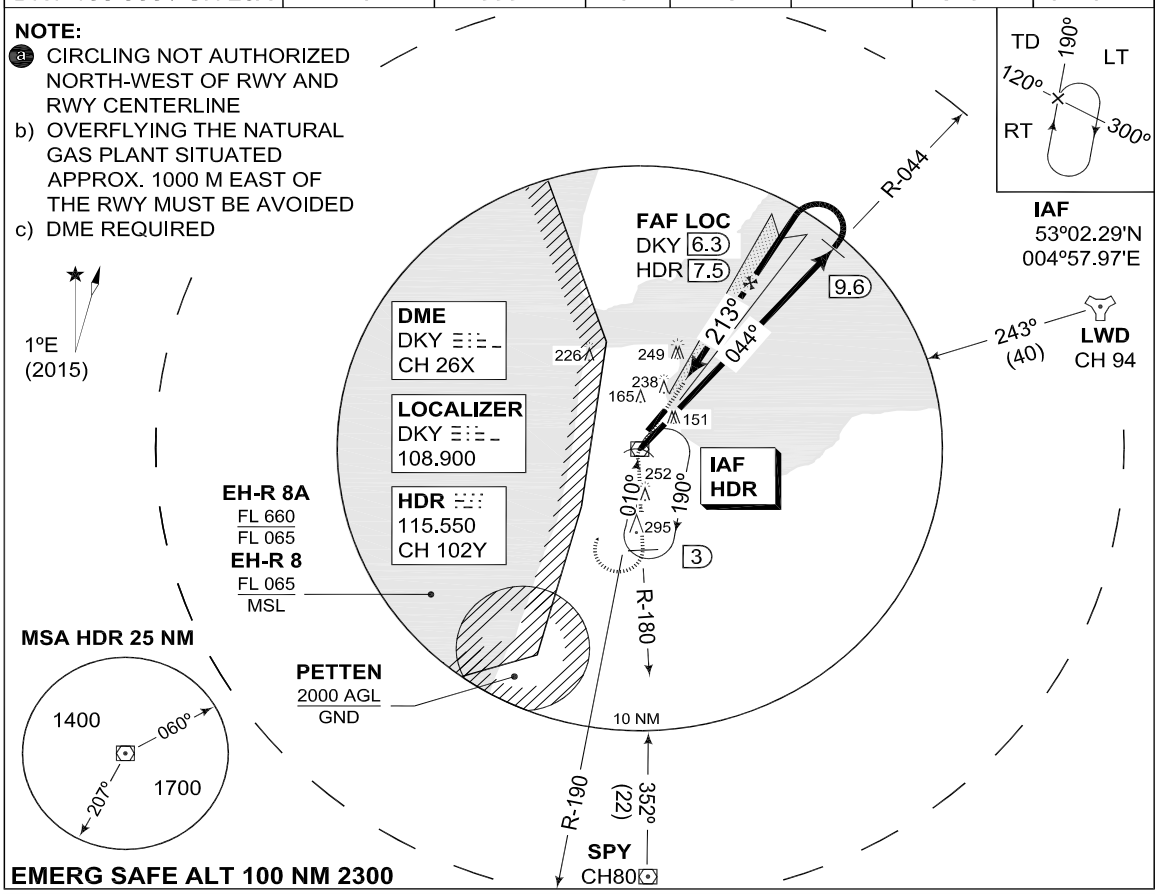
AD ELEV 4

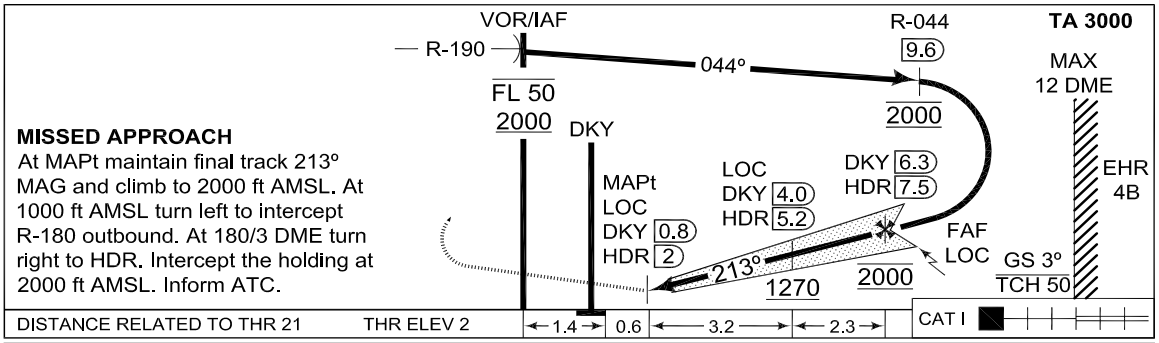
ILS or LOC RWY 21
DE KOOY (EHKD)

DUTCH MIL	DE KOOY ARRIVAL	DE KOOY TWR	GND CTL
397.275 128.355	341.550 124.230	234.800 120.130	234.800 121.730

LOCALIZER/DME	APP COURSE	GS INTCP ALT	GS	DA	THR ELEV	ALS	LDA
DKY 108.900 / CH 26X	213°	2000 FT	3°	**202**	2	870 m	3113 FT

NOTE:
a) CIRCLING NOT AUTHORIZED NORTH-WEST OF RWY AND RWY CENTERLINE
b) OVERFLYING THE NATURAL GAS PLANT SITUATED APPROX. 1000 M EAST OF THE RWY MUST BE AVOIDED
c) DME REQUIRED





MISSED APPROACH
At MAPt maintain final track 213° MAG and climb to 2000 ft AMSL. At 1000 ft AMSL turn left to intercept R-180 outbound. At 180/3 DME turn right to HDR. Intercept the holding at 2000 ft AMSL. Inform ATC.

CHANGES: MSA, OBSTACLES

MIPS	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)

RNLAF 30 MAR 2017

MIPS
INSTRUMENT APPROACH CHART

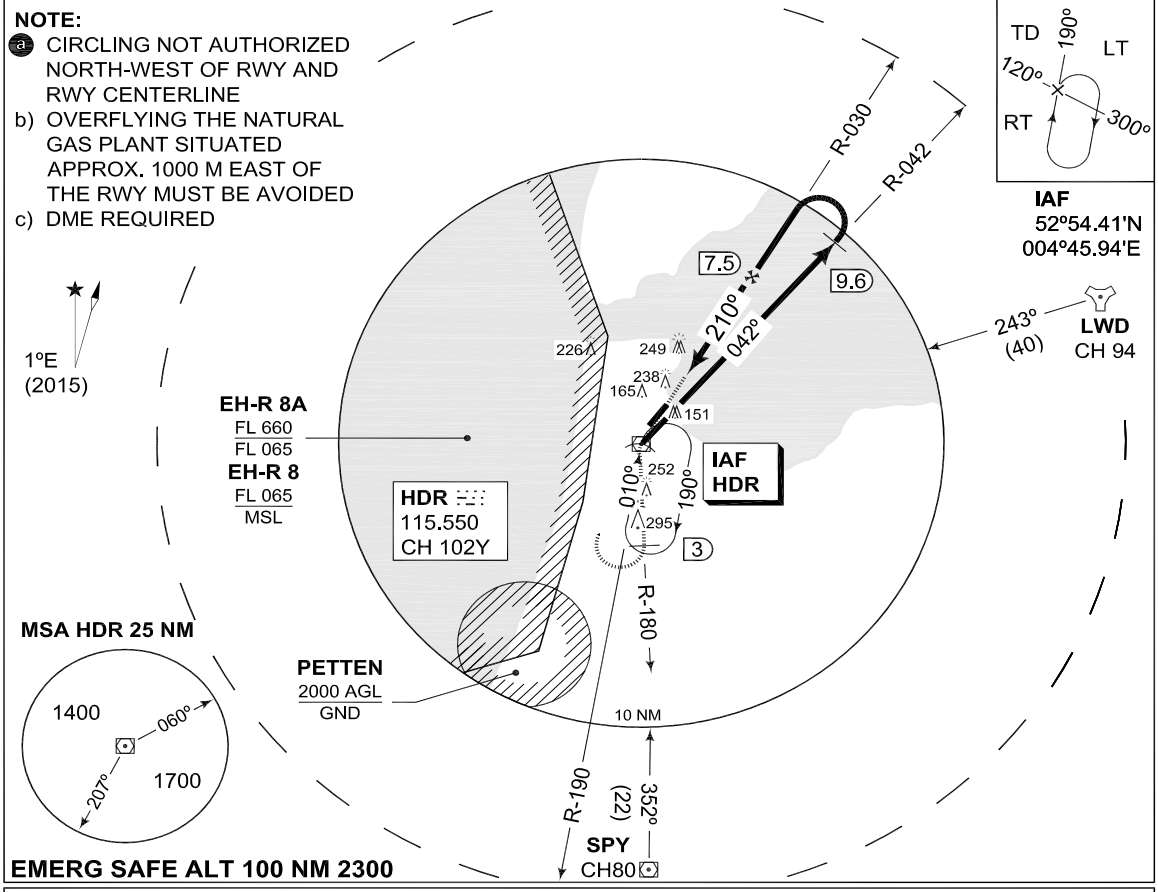
AD ELEV 4

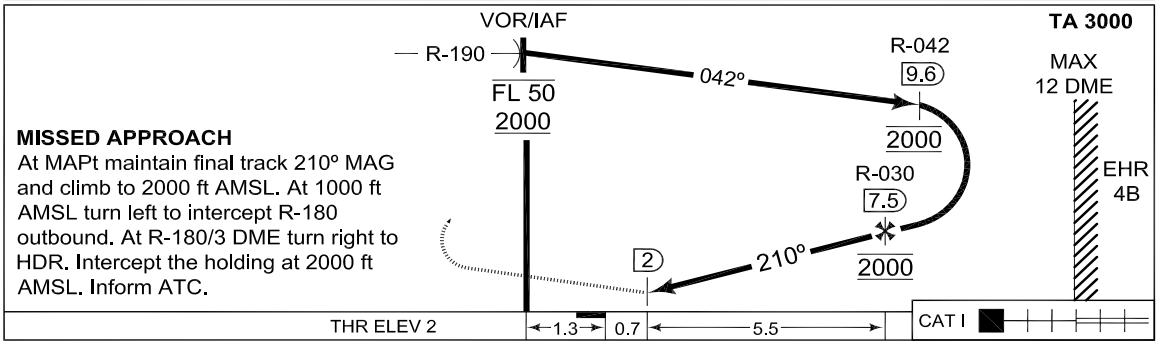
VOR RWY 21
DE KOOY (EHKD)

DUTCH MIL	DE KOOY ARRIVAL	DE KOOY TWR	GND CTL
397.275 128.355	341.550 124.230	234.800 120.130	234.800 121.730

VOR/DME	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
HDR 115.550 / CH 102Y	210°	2000 FT		**510**	2	870 m	3113 FT

NOTE:
(a) CIRCLING NOT AUTHORIZED NORTH-WEST OF RWY AND RWY CENTERLINE
b) OVERFLYING THE NATURAL GAS PLANT SITUATED APPROX. 1000 M EAST OF THE RWY MUST BE AVOIDED
c) DME REQUIRED





MISSED APPROACH
At MAPt maintain final track 210° MAG and climb to 2000 ft AMSL. At 1000 ft AMSL turn left to intercept R-180 outbound. At R-180/3 DME turn right to HDR. Intercept the holding at 2000 ft AMSL. Inform ATC.

CATEGORY	A	B	H
S-VOR 21	**510** -800 508 (600-0.8)		**510** -400 508 (600-0.4)
CIRCLING (a)	**510** -1900 506 (600-1.9)	**550** -2800 546 (600-2.8)	**510** -1900 506 (600-1.9)

CHANGES: DELETE SRA 21

MIPS

RNLAF 25 MAY 2017

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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.

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)577 458781
Tel: +31(0)20 4062841
Fax: +31(0)577 456523
E-mail: aocs.fdno@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 2-9
Local map	EHLW AD 2-10
Instrument departure chart LW1	EHLW AD 2-11
Instrument departure chart LW3	EHLW AD 2-12
Instrument departure chart LW5	EHLW AD 2-13
Instrument departure chart LW7	EHLW AD 2-14
Instrument approach chart ILS or LOC RWY 05	EHLW AD 2-15
Instrument approach chart HI-TACAN RWY 05	EHLW AD 2-16
Instrument approach chart TACAN RWY 05	EHLW AD 2-17
Instrument approach chart COPTER ILS or LOC 054	EHLW AD 2-18
Instrument approach chart COPTER TACAN 057	EHLW AD 2-19
Instrument approach chart RNAV (GNSS) RWY 05	EHLW AD 2-20
Instrument approach chart ILS or LOC RWY 09	EHLW AD 2-21
Instrument approach chart HI-TACAN RWY 09	EHLW AD 2-22
Instrument approach chart TACAN RWY 09	EHLW AD 2-23
Instrument approach chart ILS or LOC RWY 23	EHLW AD 2-24
Instrument approach chart HI-TACAN RWY 23	EHLW AD 2-25
Instrument approach chart TACAN RWY 23	EHLW AD 2-26
Instrument approach chart COPTER ILS or LOC 234	EHLW AD 2-27
Instrument approach chart COPTER TACAN 231	EHLW AD 2-28
Instrument approach chart RNAV (GNSS) RWY 23	EHLW AD 2-29
Instrument approach chart ILS or LOC RWY 27	EHLW AD 2-30
Instrument approach chart HI-TACAN RWY 27	EHLW AD 2-31
Instrument approach chart TACAN RWY 27	EHLW AD 2-32

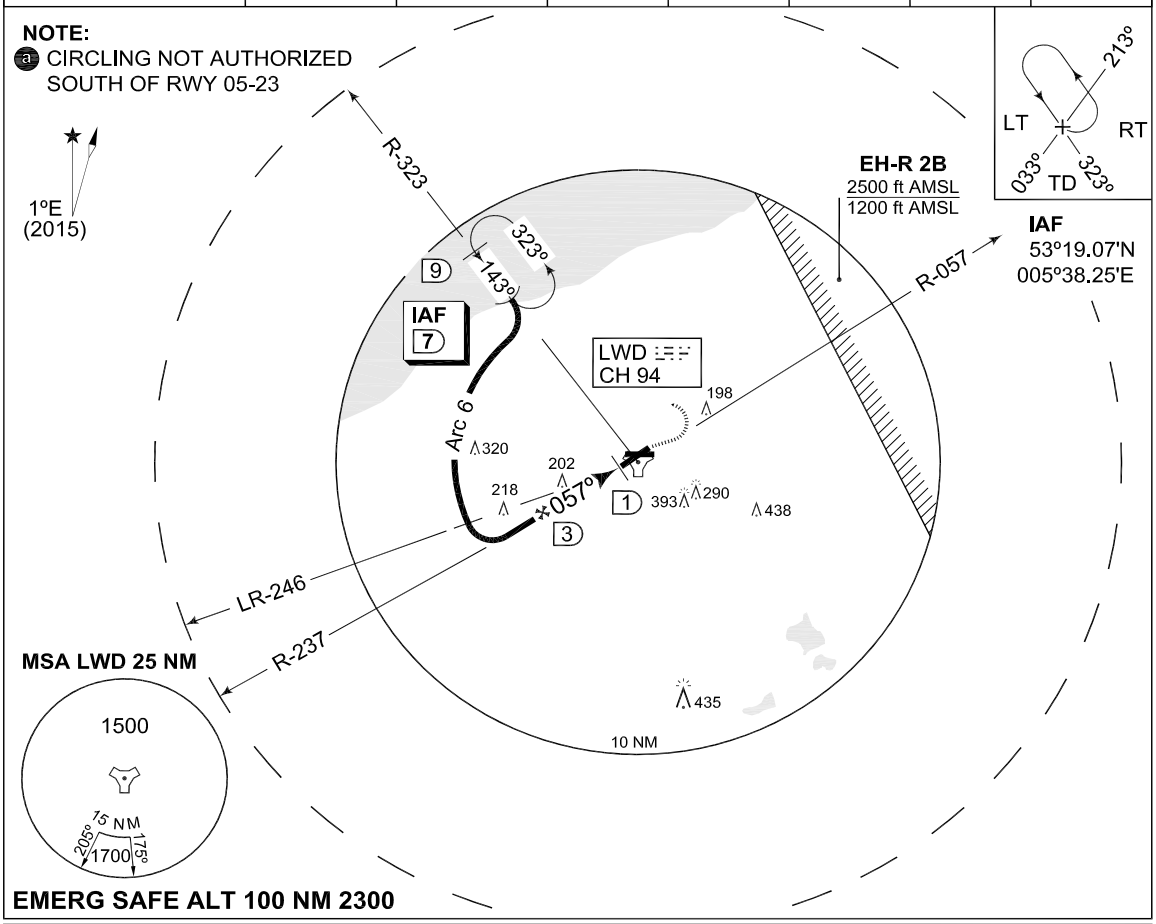
MIPS
INSTRUMENT APPROACH CHART

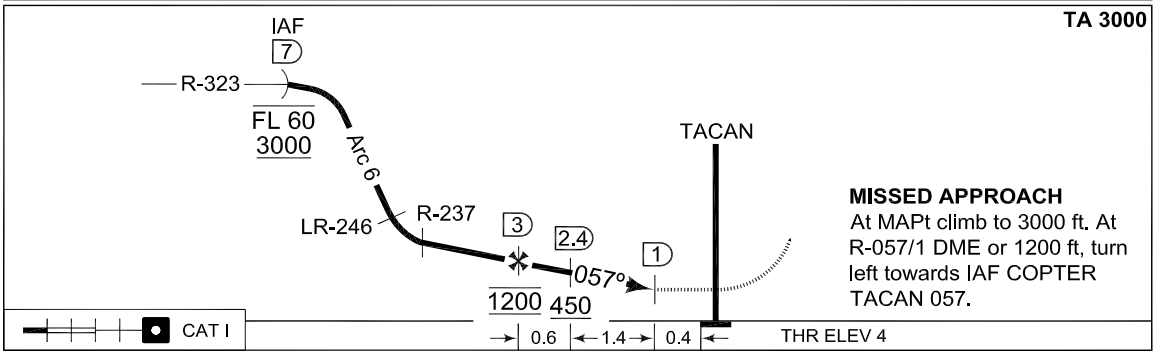
AD ELEV 4

COPTER TACAN 057
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
LWD CH 94	057°	1200 FT		**380**	4	660 m	8858 FT





CATEGORY	A
COPTER TACAN 057	**380** -400 376 (400-0.4/0.8)
CIRCLING a	**500** -1900 496 (500-1.9)

CHANGES: MSA, OBSTACLES

MIPS

RNLAF 30 MAR 2017

PANS OPS
INSTRUMENT APPROACH CHART

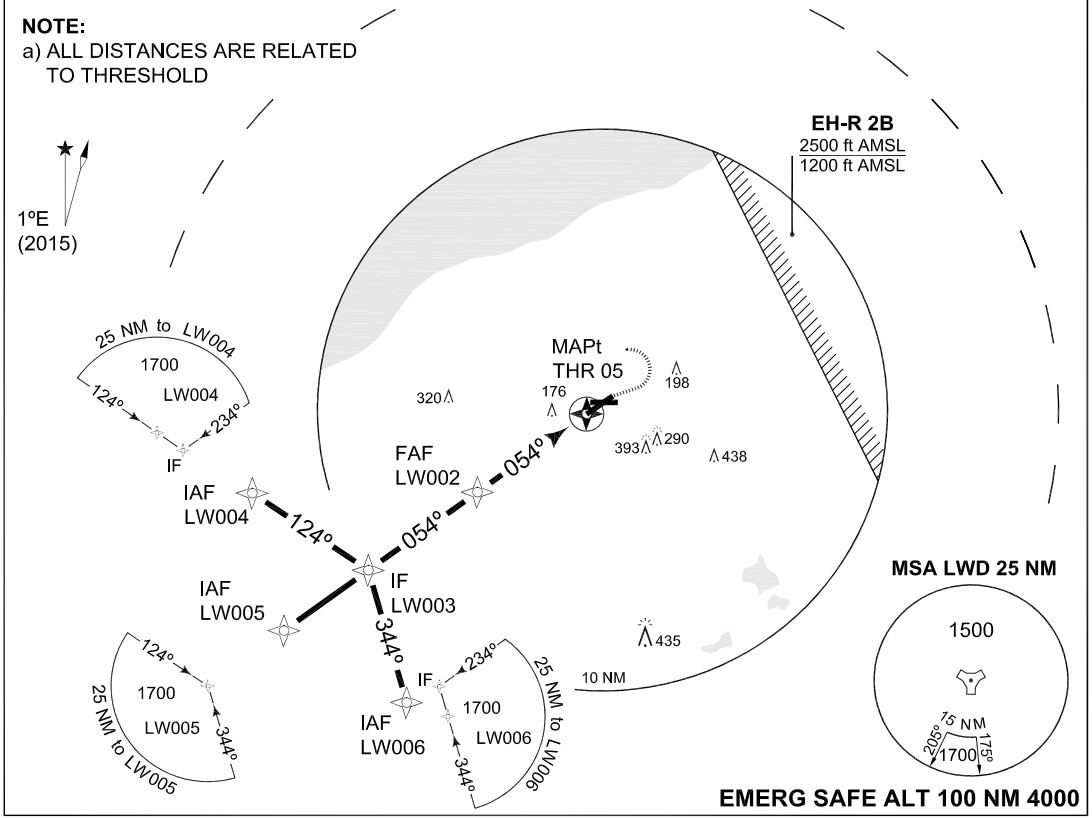
AD ELEV 4

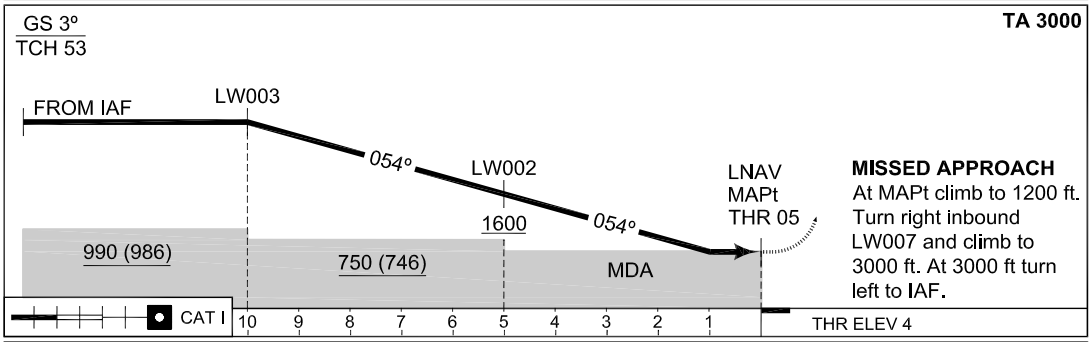
RNAV (GNSS) RWY 05
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
054°	1600 FT	5.24% / 3°	**460**	4	660 m	8858 FT

NOTE:
a) ALL DISTANCES ARE RELATED TO THRESHOLD





CATEGORY	A	B	C	D
EU-OPS MDA(H) LNAV	**460** -900 456 (500-0.9/1.6)			

IAWP-N	LW004	53°09.79'N	005°25.17'E	FAWP	LW002	53°10.32'N	005°37.42'E
IAWP-W	LW005	53°05.20'N	005°25.14'E	MAWP	LW001	53°13.15'N	005°44.27'E
IAWP-S	LW006	53°03.62'N	005°32.27'E	MATWP	LW007	53°17.64'N	005°56.42'E
IWP	LW003	53°07.48'N	005°30.59'E				

CHANGES: NEW PROCEDURE

RNLAF 04 JAN 2018

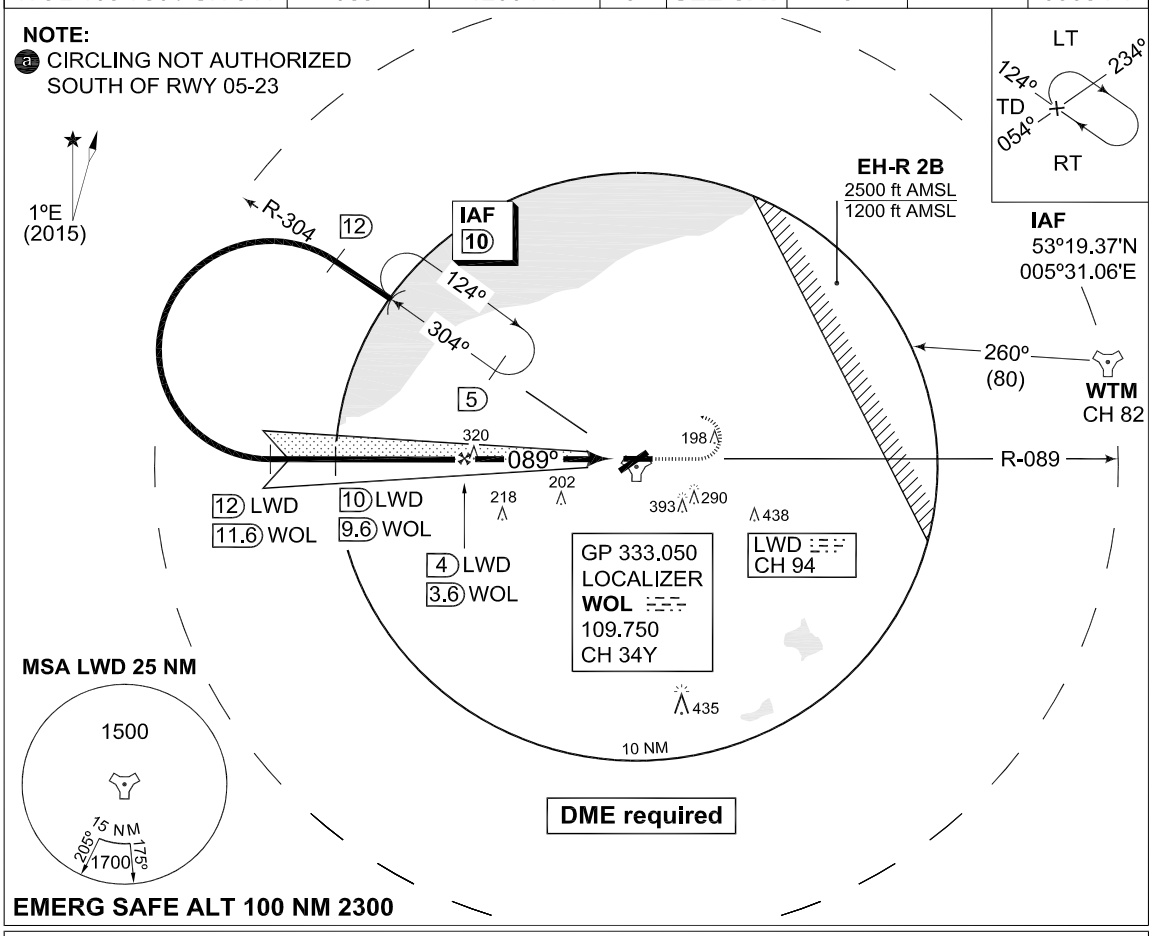
MIPS
INSTRUMENT APPROACH CHART

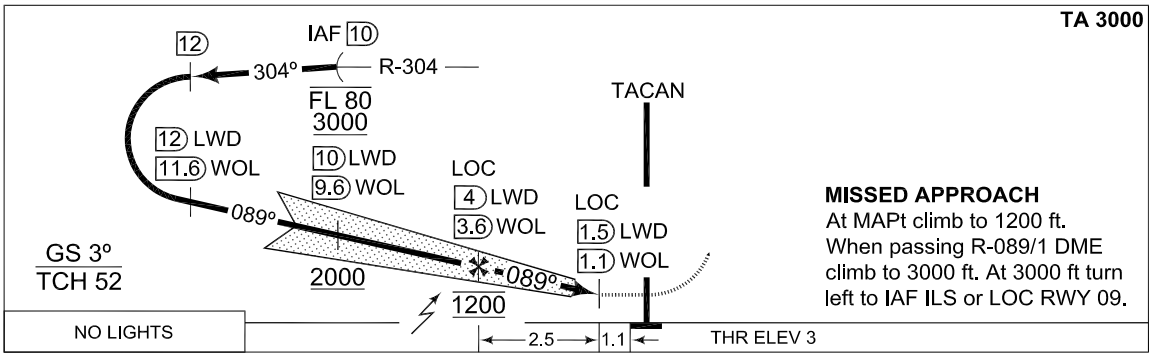
AD ELEV 4

ILS or LOC RWY 09
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

LOCALIZER / DME	APP COURSE	GS INTCEPT ALT	GS	MDA	THR ELEV	ALS	LDA
WOL 109.750 / CH 34Y	089°	1200 FT	3°	**SEE CAT**	3	-	6368 FT





CATEGORY	A	B	C	D	E	H
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1					
S-ILS 09	**221** -1600 218 (300-1.6/1.6)	**231** -1600 228 (300-1.6/1.6)	**240** -1600 237 (300-1.6/1.6)	**250** -1600 247 (300-1.6/1.6)	**268** -1600 265 (300-1.6/1.6)	**205** -800 202 (300-0.8/0.8)
S-LOC 09	**430** -1600 427 (500-1.6/1.6)		**430** -2000 427 (500-2.0/2.0)	**430** -2400 427 (500-2.4/2.4)		**430** -800 427 (500-0.8/0.8)
CIRCLING a	**500** -1900 496 (500-1.9)	**510** -2800 506 (600-2.8)	**610** -3700 606 (700-3.7)	**720** -4600 716 (800-4.6)	**820** -6500 816 (900-6.5)	N.A.

MIPS

CHANGES: MSA, OBSTACLES

RNLAF 30 MAR 2017

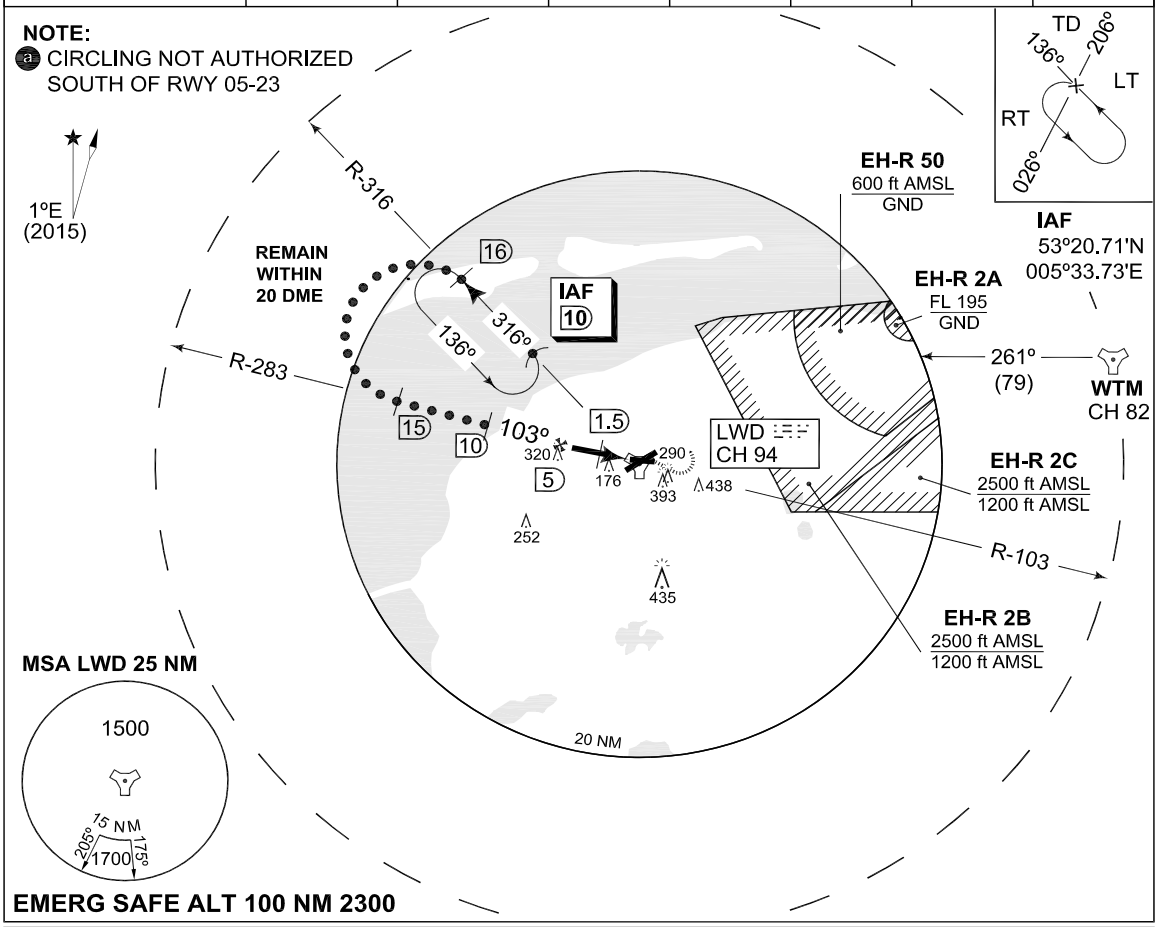
MIPS
INSTRUMENT APPROACH CHART

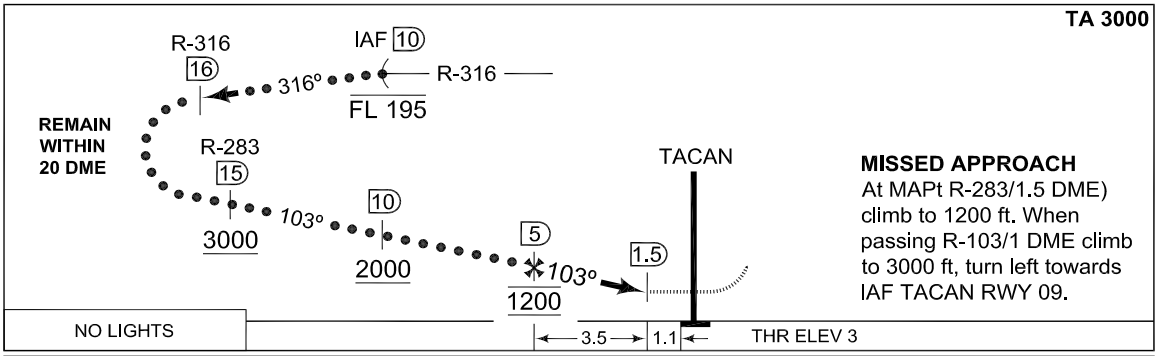
AD ELEV 4

HI-TACAN RWY 09
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
LWD CH 94	103°	1200 FT		**440**	3	-	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 (a)	**610** -3700 606 (700-3.7)	**720** -4600 716 (800-4.6)	**820** -6500 816 (900-6.5)

CHANGES: MSA, OBSTACLES

MIPS

RNLAF 30 MAR 2017

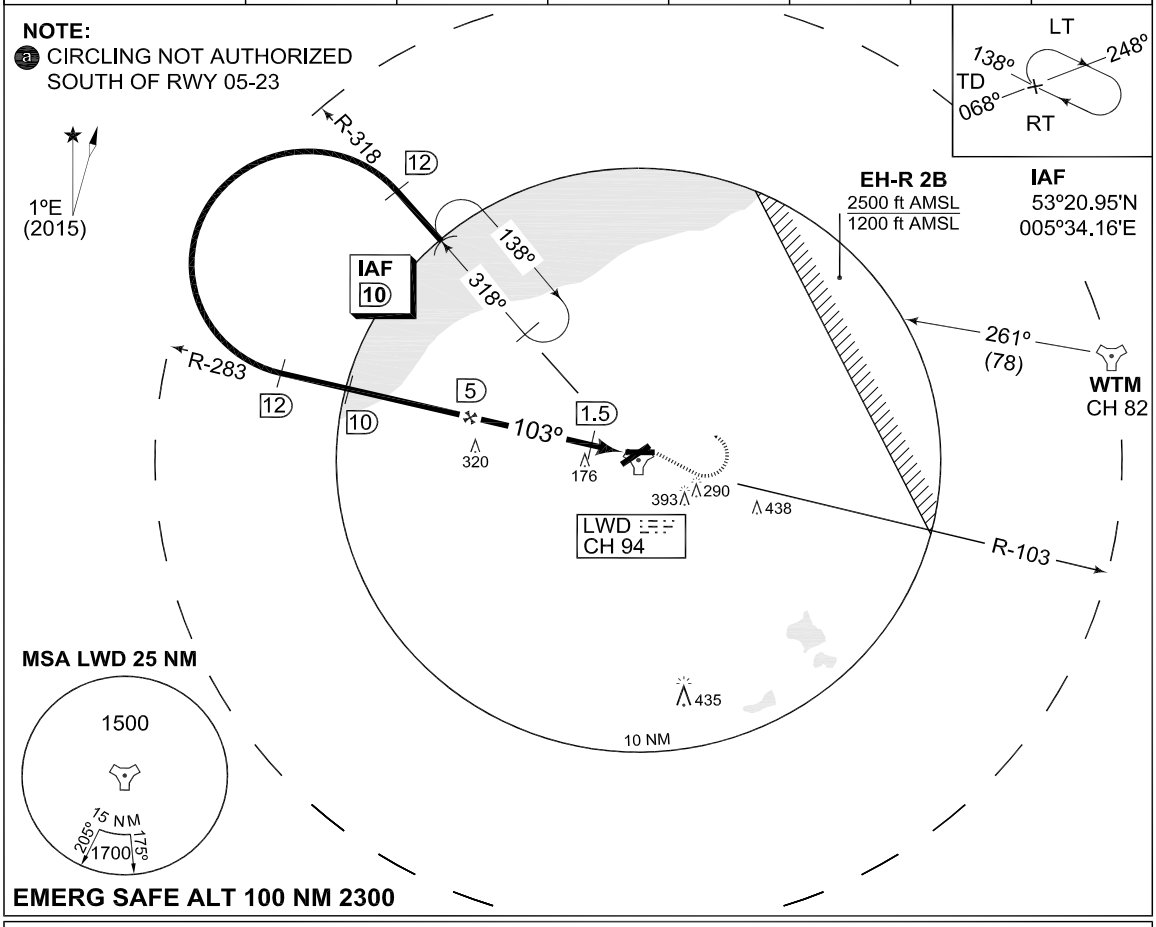
MIPS
INSTRUMENT APPROACH CHART

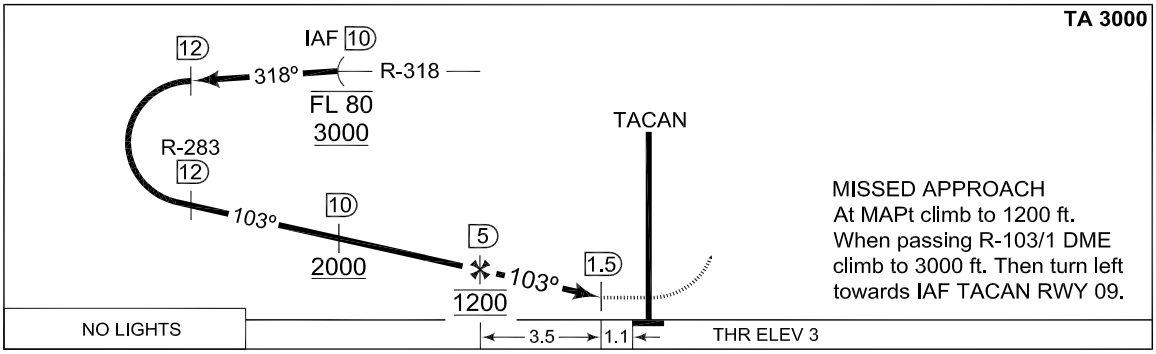
AD ELEV 4

TACAN RWY 09
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
LWD CH 94	103°	1200 FT		**440**	3	-	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 (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: EDITORIAL
MIPS
RNLAF 25 MAY 2017

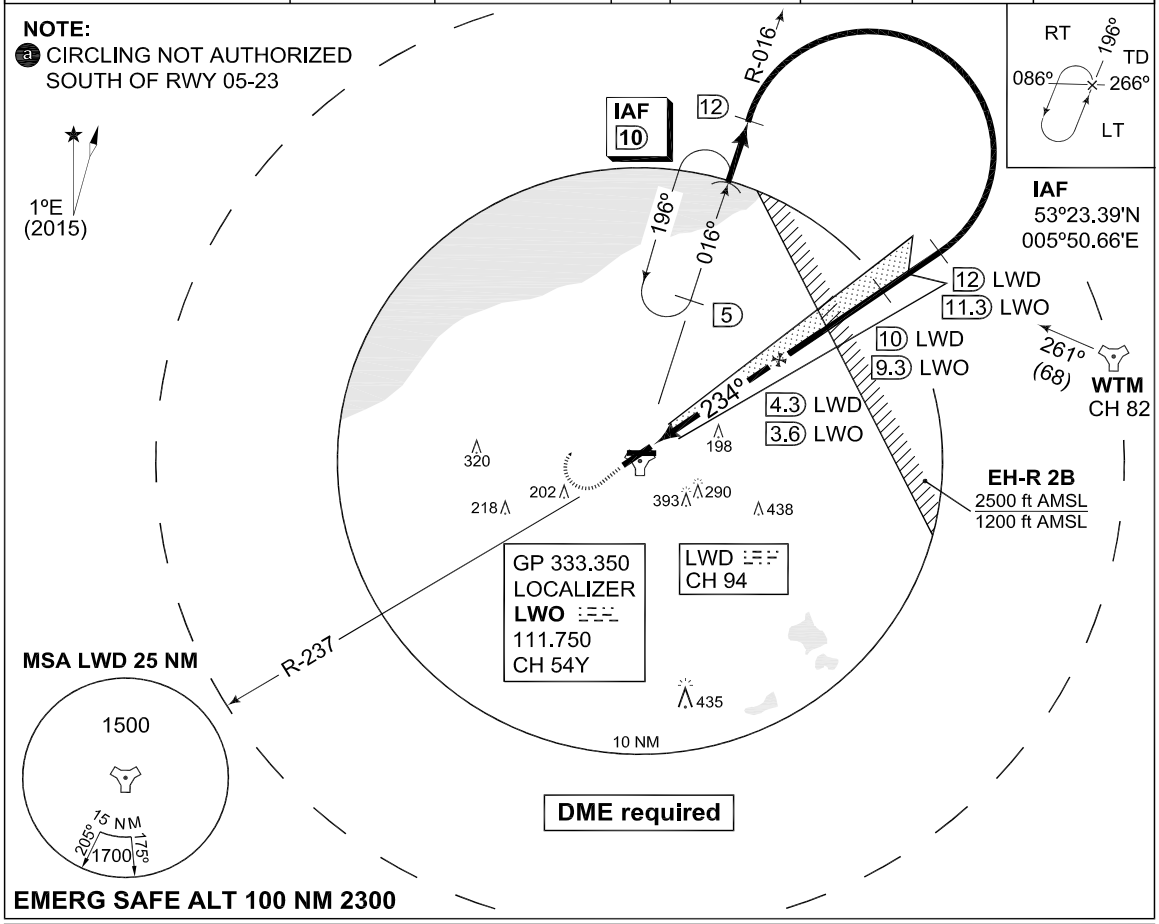
MIPS
INSTRUMENT APPROACH CHART

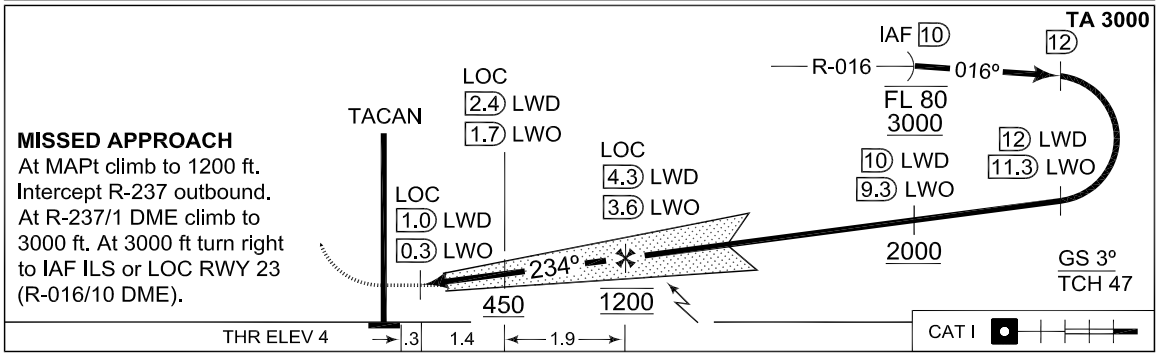
AD ELEV 4

ILS or LOC RWY 23
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

LOCALIZER / DME	APP COURSE	GS INTCEPT ALT	GS	DA	THR ELEV	ALS	LDA
LWO 111.750 / CH 54Y	234°	1200 FT	3°	**SEE CAT**	4	720 m	8652 FT





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, OBSTACLES
MIPS
RNLAF 30 MAR 2017

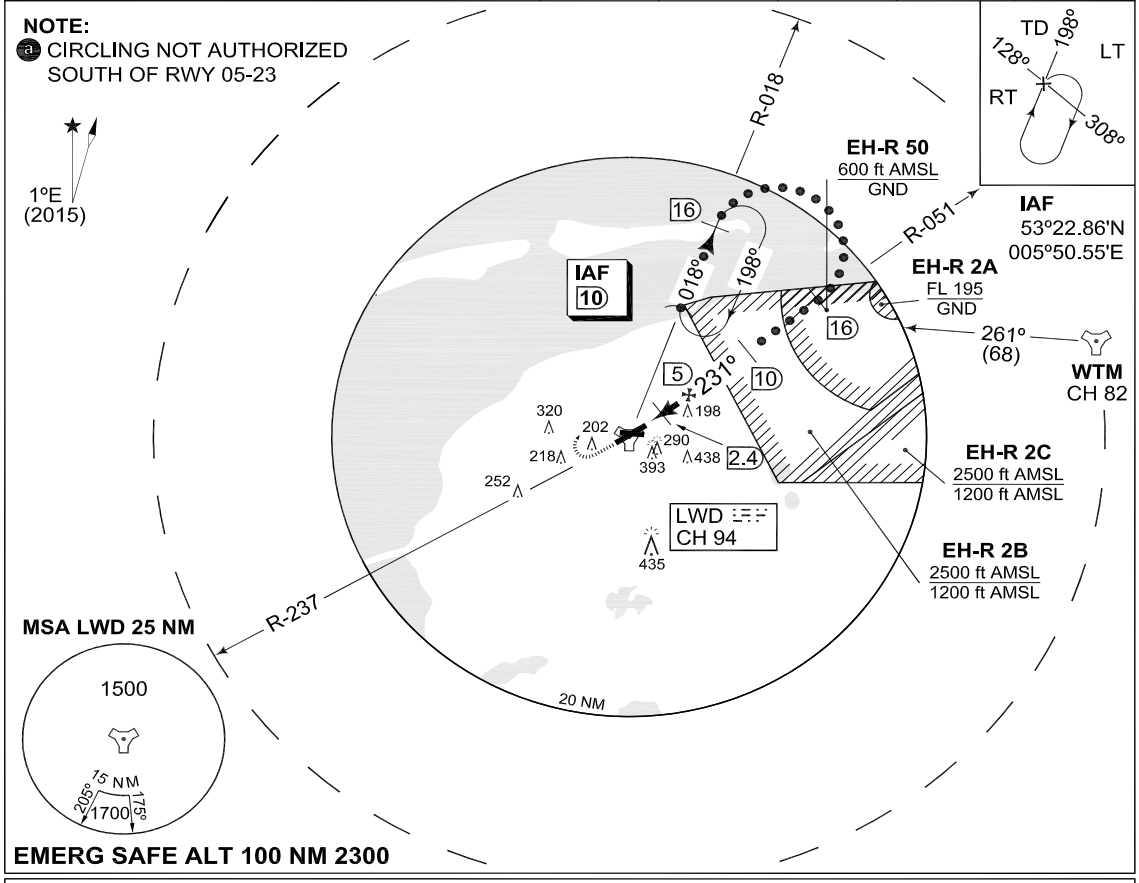
MIPS
INSTRUMENT APPROACH CHART

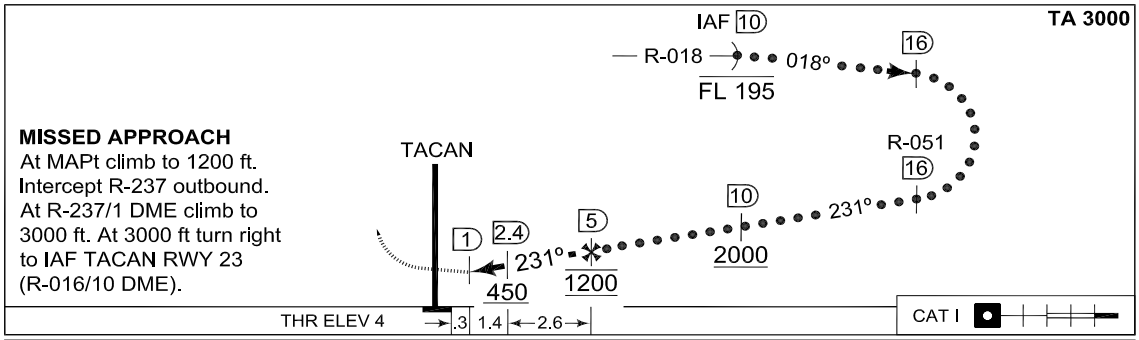
AD ELEV 4

HI-TACAN RWY 23
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
LWD CH 94	231°	1200 FT		380	4	720 m	8652 FT





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)

MIPS

CHANGES: MSA, OBSTACLES

RNLAF 30 MAR 2017

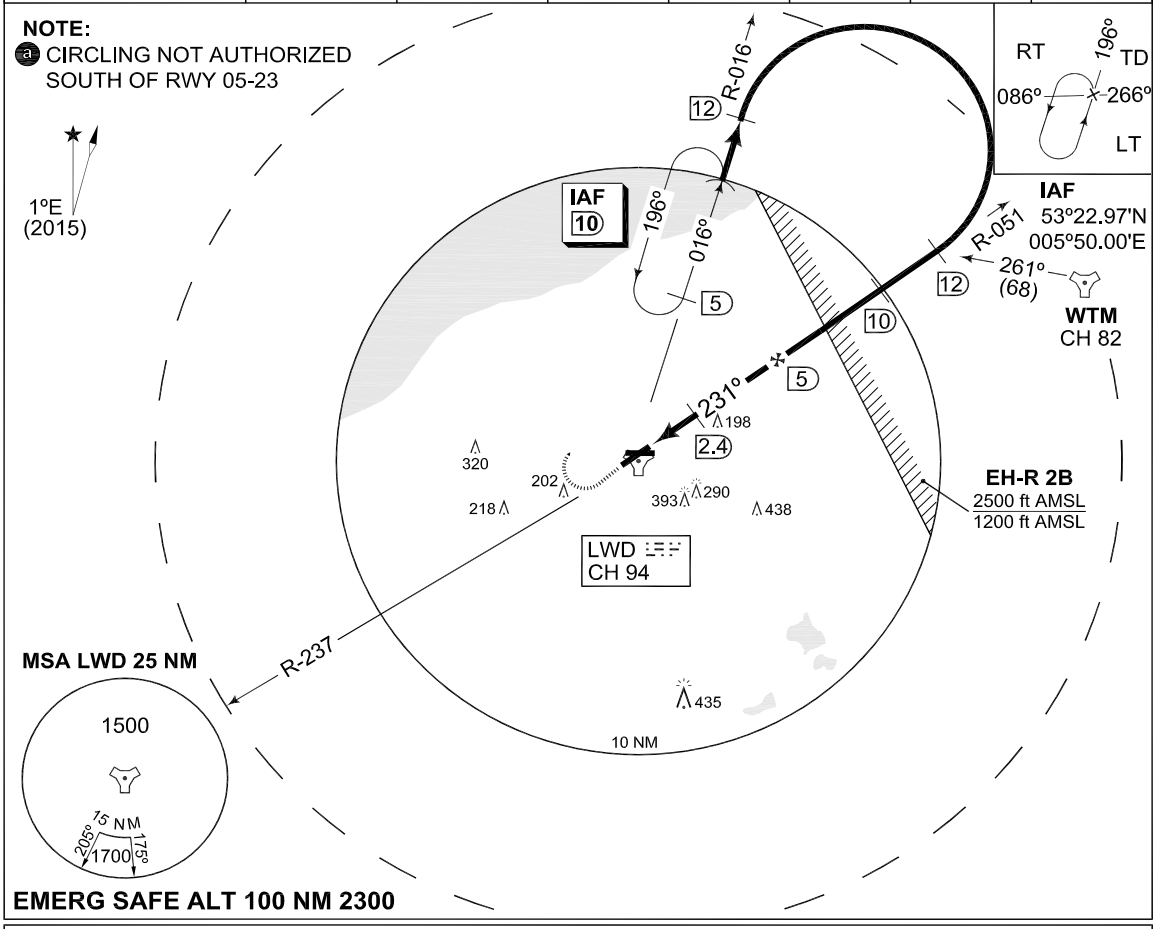
MIPS
INSTRUMENT APPROACH CHART

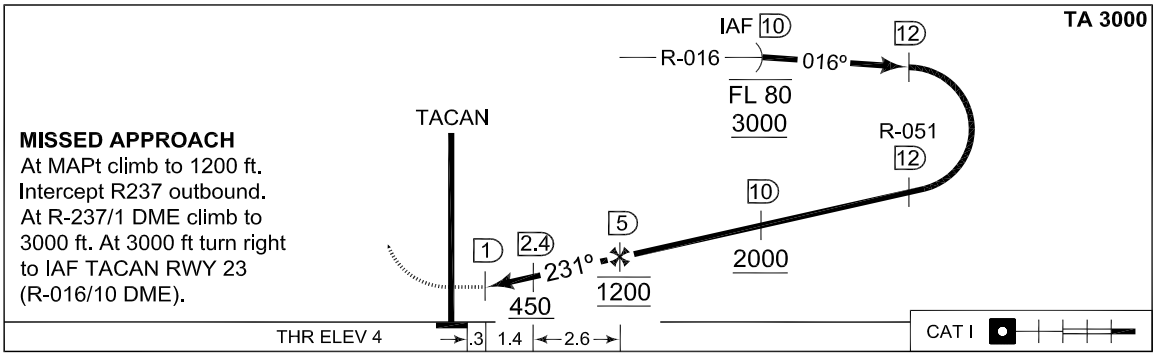
AD ELEV 4

TACAN RWY 23
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
LWD CH 94	231°	1200 FT		**380**	4	720 m	8652 FT





CHANGES: MSA, OBSTACLES

	CATEGORY	A	B	C	D	E
MIPS		MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
	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)

RNLAF 30 MAR 2017

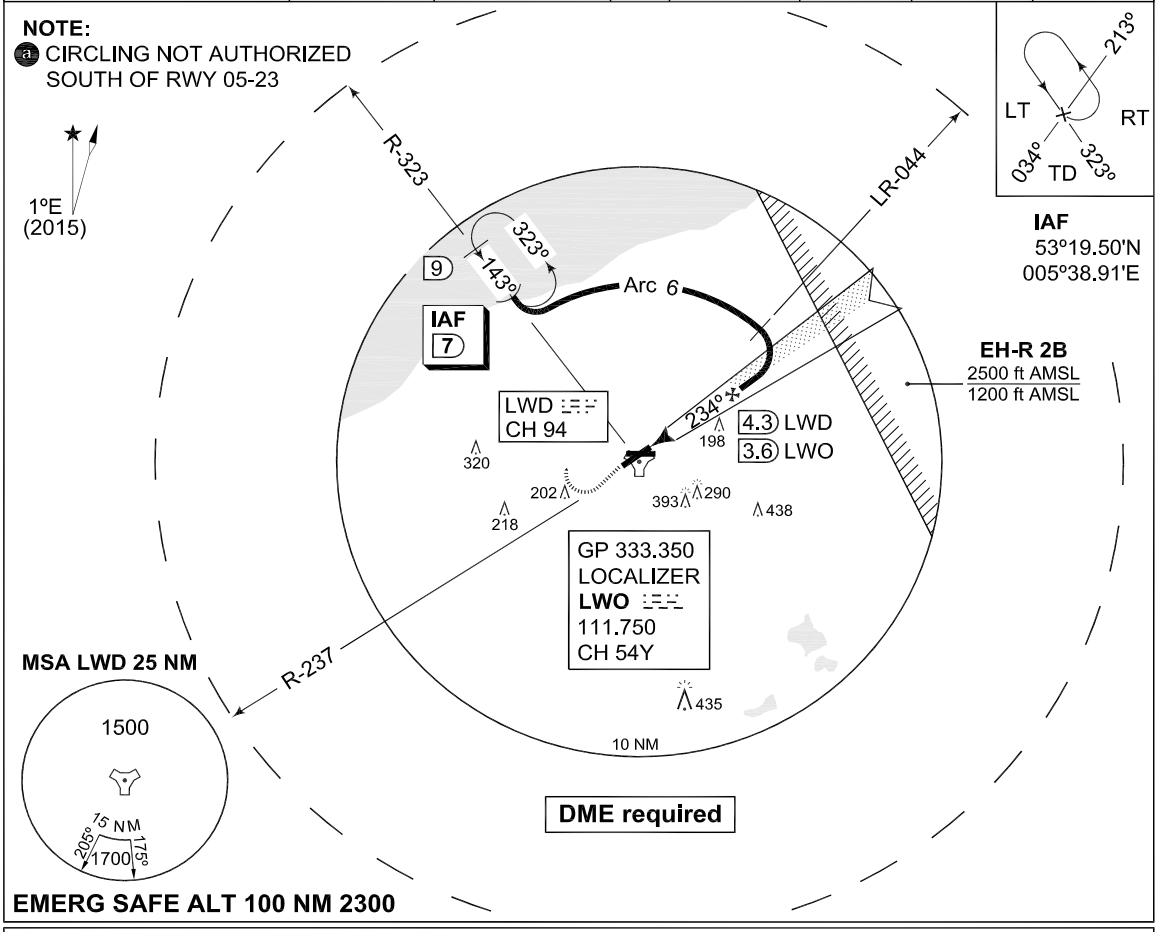
MIPS
INSTRUMENT APPROACH CHART

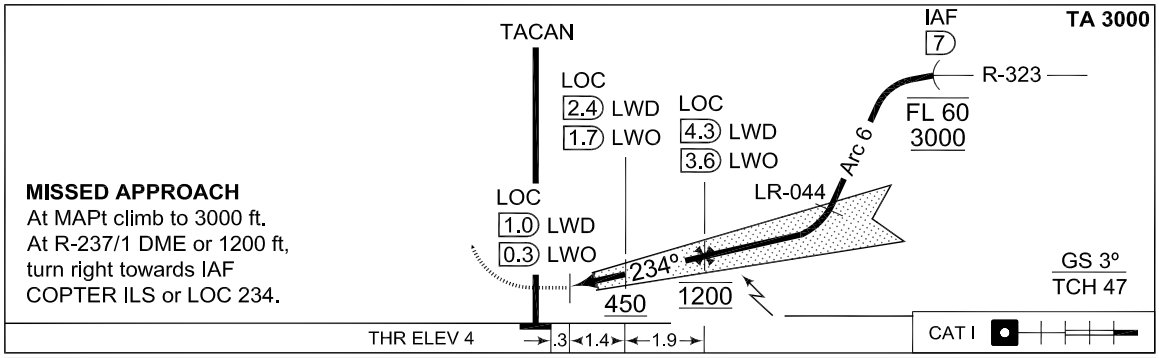
AD ELEV 4

COPTER ILS or LOC 234
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

LOCALIZER / DME	APP COURSE	GS INTCEPT ALT	GS	DA	THR ELEV	ALS	LDA
LWO 111.750 / CH 54Y	234°	1200 FT	3°	**204**	4	720 m	8652 FT



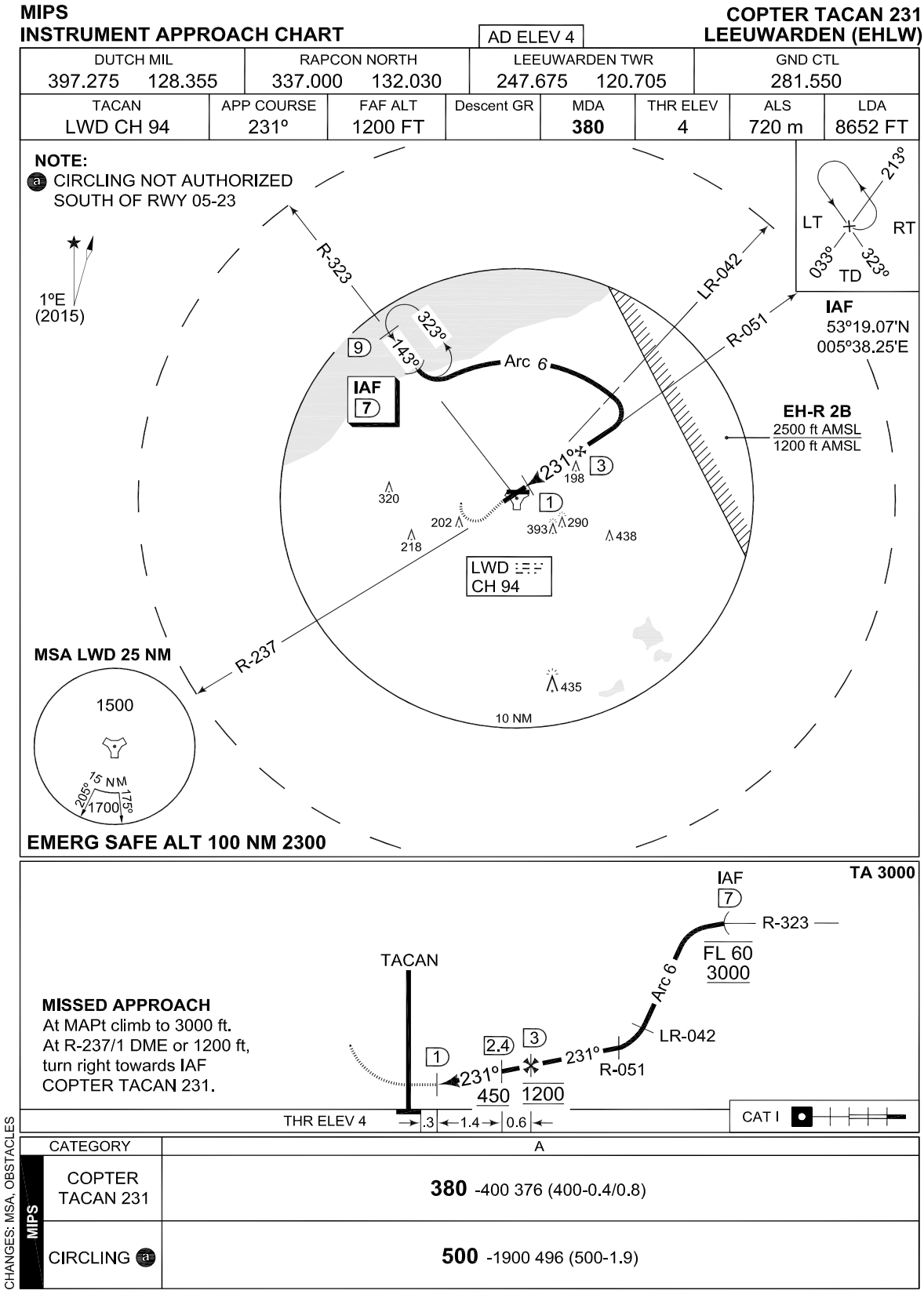


CATEGORY	H
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1
S-ILS 234	**204** -400 200 (200-0.4/0.8)
S-LOC 234	**340** -400 336 (400-0.4/0.8)
CIRCLING a	**500** -1900 496 (500-1.9)

CHANGES: MSA, OBSTACLES

MIPS

RNLAF 30 MAR 2017


MIPS
INSTRUMENT APPROACH CHART
AD ELEV 4
COPTER TACAN 231
LEEUWARDEN (EHLW)
DUTCH MIL 397.275 128.355
RAPCON NORTH 337.000 132.030
LEEUWARDEN TWR 247.675 120.705
GND CTL 281.550
TACAN LWD CH 94
APP COURSE 231°
FAF ALT 1200 FT
Descent GR
MDA 380
THR ELEV 4
ALS 720 m
LDA 8652 FT
NOTE:
a CIRCLING NOT AUTHORIZED SOUTH OF RWY 05-23
1°E (2015)
R-323
323°
143°
9
IAF 7
Arc 6
LR-042
R-051
213°
LT
RT
033°
323°
TD
IAF
53°19.07'N
005°38.25'E
EH-R 2B
2500 ft AMSL
1200 ft AMSL
231°
3
1
198
320
202
218
393
290
438
435
LWD
CH 94
10 NM
R-237
MSA LWD 25 NM
1500
15 NM
205°
175°
1700
EMERG SAFE ALT 100 NM 2300
TA 3000
IAF
7
R-323
FL 60
3000
Arc 6
TACAN
MISSED APPROACH
At MAPt climb to 3000 ft.
At R-237/1 DME or 1200 ft,
turn right towards IAF
COPTER TACAN 231.
1
2.4
3
231°
231°
LR-042
R-051
450
1200
THR ELEV 4
.3
1.4
0.6
CAT I
CATEGORY
A
COPTER TACAN 231
380 -400 376 (400-0.4/0.8)
CIRCLING a
500 -1900 496 (500-1.9)
CHANGES: MSA, OBSTACLES
MIPS
RNLAF 30 MAR 2017

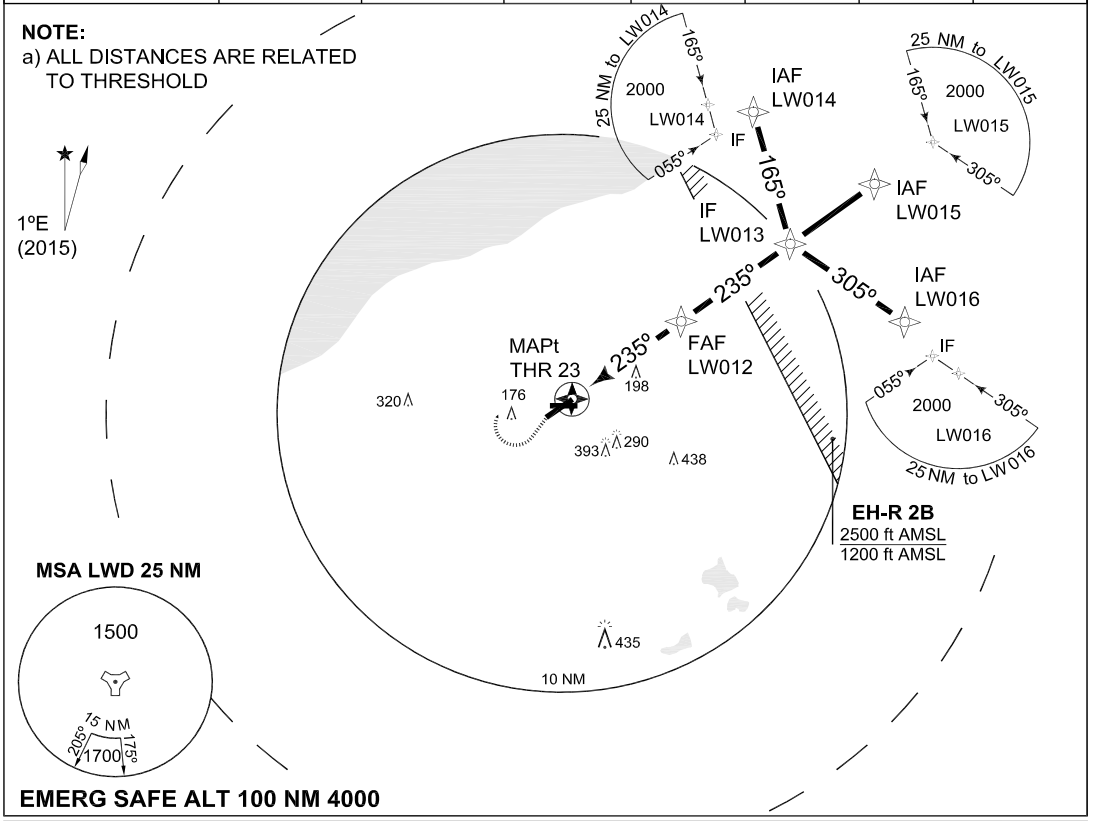
PANS OPS
INSTRUMENT APPROACH CHART

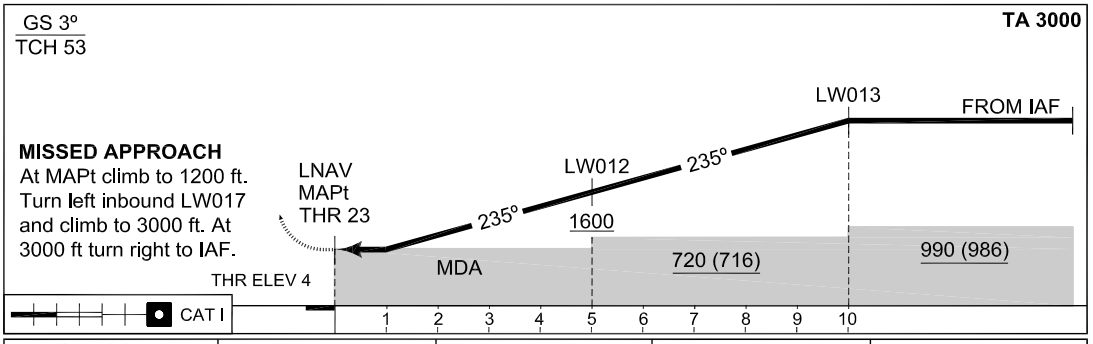
AD ELEV 4

RNAV (GNSS) RWY 23
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
	235°	1600 FT	5.24% / 3°	**450**	4	720 m	8652 FT





CATEGORY	A	B	C	D
EU-OPS MDA(H) LNAV	**450**-900 446 (400-0.9/1.6)			

IAWP-N	LW014	53°23.39'N	005°58.14'E	FAWP	LW012	53°16.70'N	005°52.91'E
IAWP-E	LW015	53°21.77'N	006°05.30'E	MAWP	LW011	53°13.88'N	005°46.04'E
IAWP-S	LW016	53°17.19'N	006°05.20'E	MATWP	LW017	53°09.18'N	005°33.84'E
IWP	LW013	53°19.52'N	005°59.79'E				

CHANGES: NEW PROCEDURE

RNLAF 04 JAN 2018

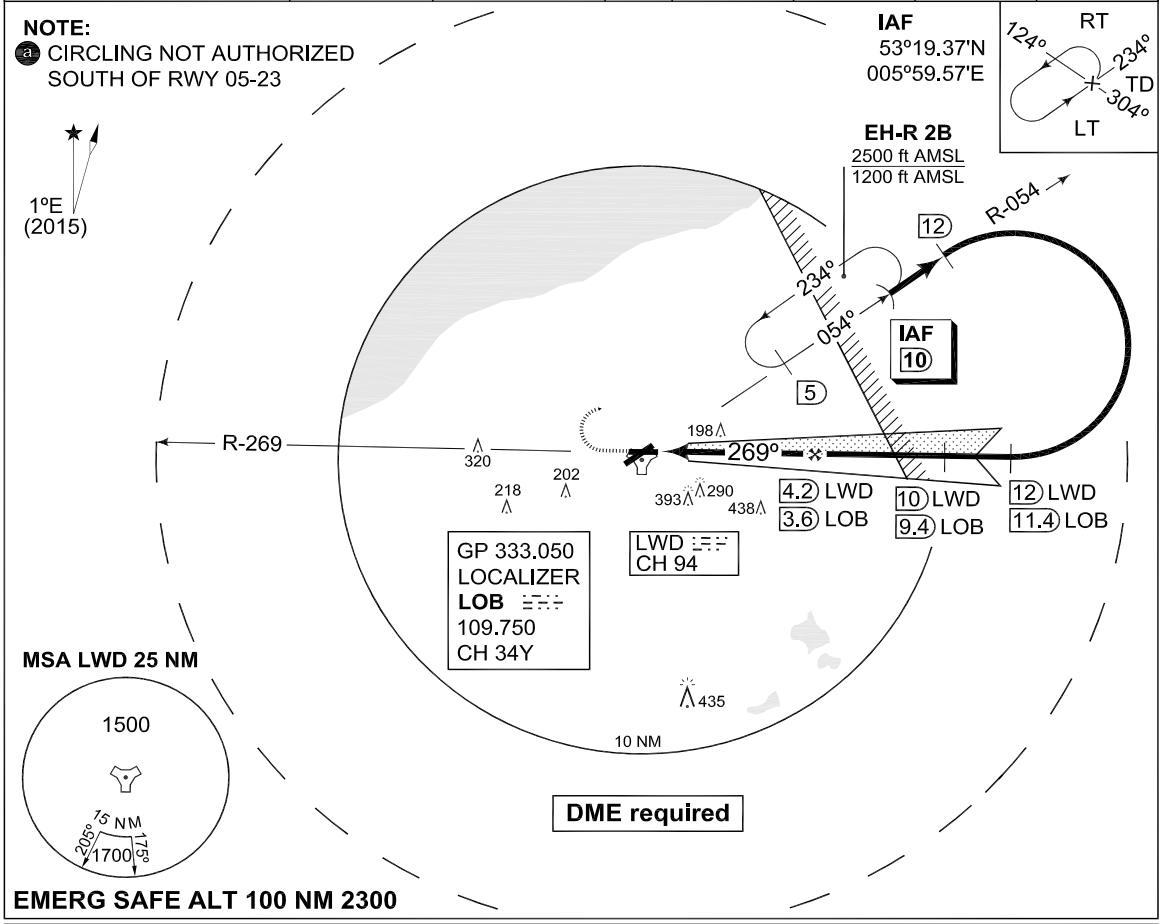
MIPS
INSTRUMENT APPROACH CHART

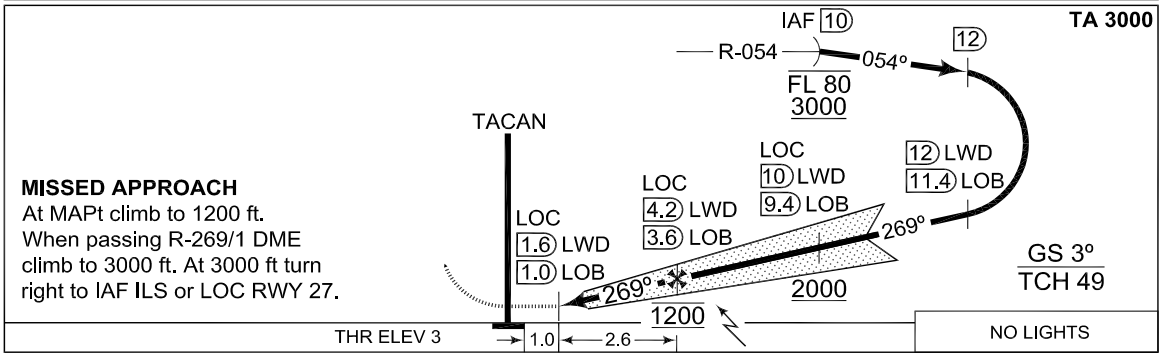
AD ELEV 4

ILS or LOC RWY 27
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

LOCALIZER / DME	APP COURSE	GS INTCEPT ALT	GS	MDA	THR ELEV	ALS	LDA
LOB 109.750 / CH 34Y	269°	1200 FT	3°	**SEE CAT**	3	-	6561 FT





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

MIPS

CHANGES: MSA, OBSTACLES

RNLAF 30 MAR 2017

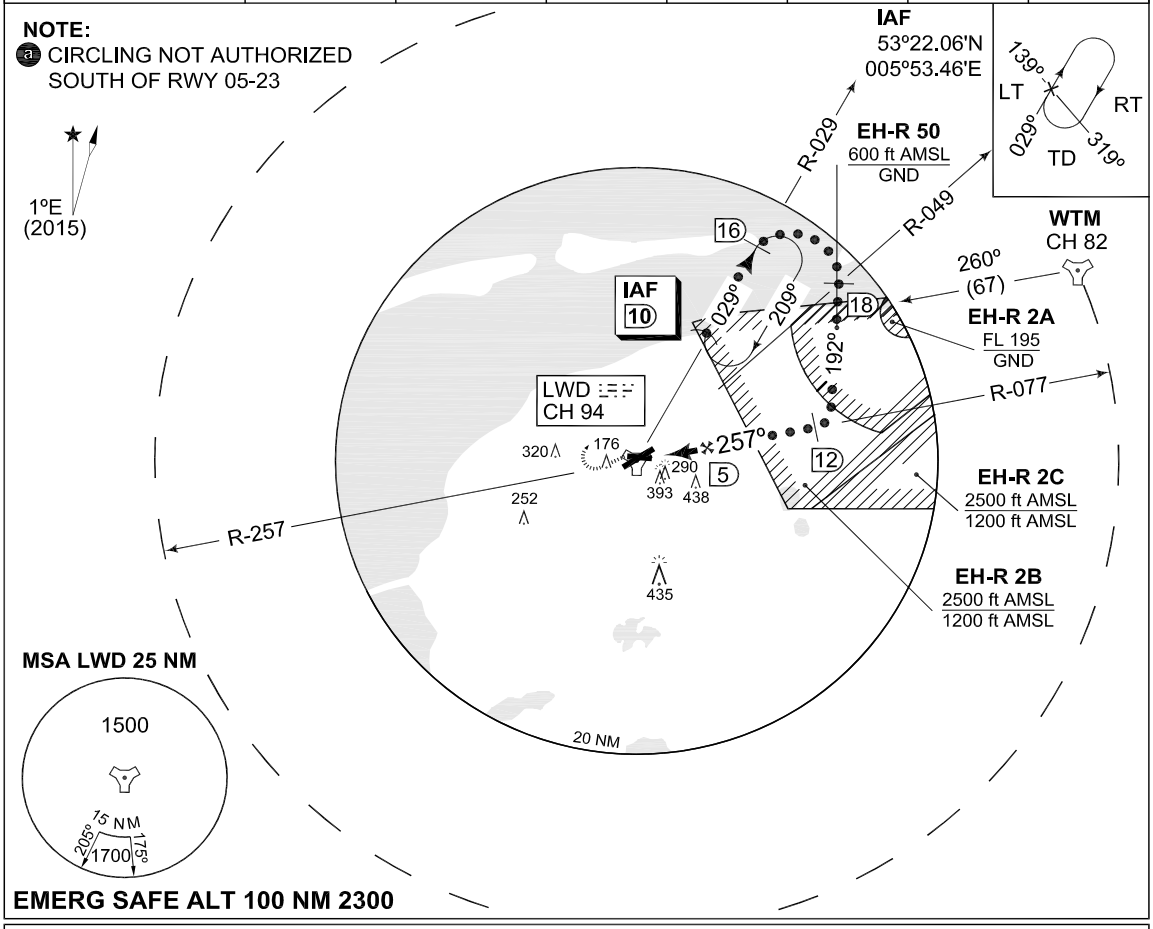
MIPS
INSTRUMENT APPROACH CHART

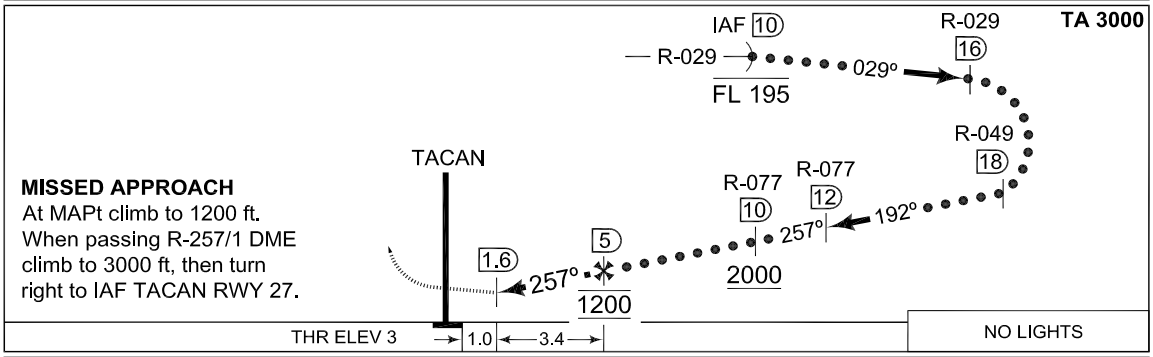
AD ELEV 4

HI-TACAN RWY 27
LEEUWARDEN (EHLW)

DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
LWD CH 94	257°	1200 FT		390	3	-	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 a	**610** -3700 606 (700-3.7)	**720** -4600 716 (800-4.6)	**820** -6500 816 (900-6.5)

CHANGES: EDITORIAL
MIPS
RNLAF 09 NOV 2017

MIPS
INSTRUMENT APPROACH CHART

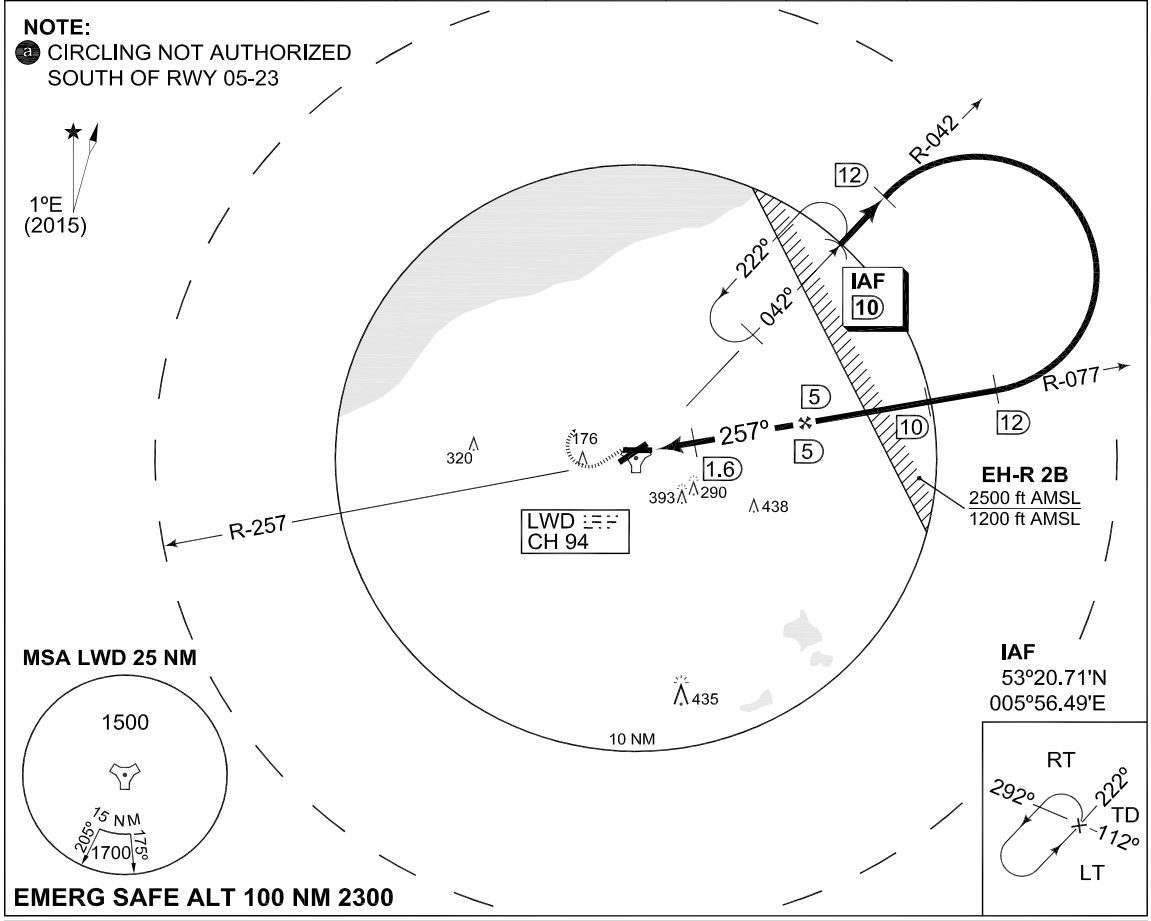
AD ELEV 4

TACAN RWY 27
LEEUWARDEN (EHLW)

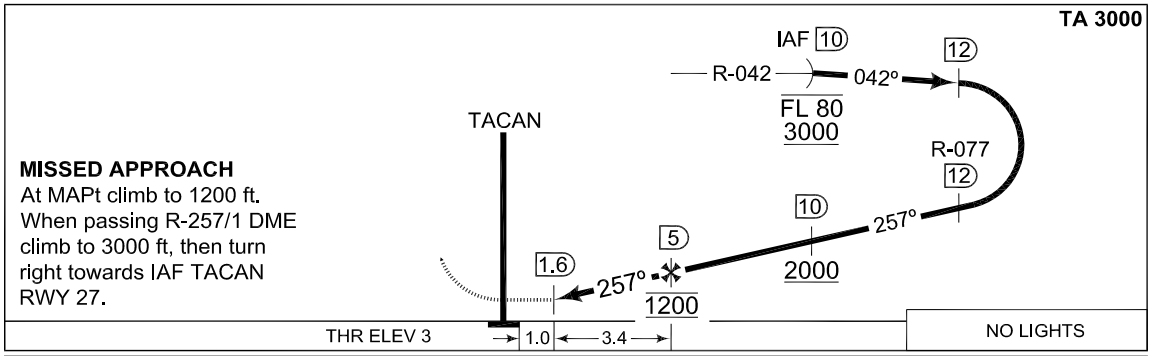
DUTCH MIL	RAPCON NORTH	LEEUWARDEN TWR	GND CTL
397.275 128.355	337.000 132.030	247.675 120.705	281.550

TACAN	APP COURSE	FAF ALT	Descent GR	MDA	THR ELEV	ALS	LDA
LWD CH 94	257°	1200 FT		**390**	3	-	6561 FT

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



TA 3000



MISSED APPROACH
At MAPt climb to 1200 ft.
When passing R-257/1 DME climb to 3000 ft, then turn right towards IAF TACAN RWY 27.

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 (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

CHANGES: MSA, OBSTACLES

RNLAF 30 MAR 2017

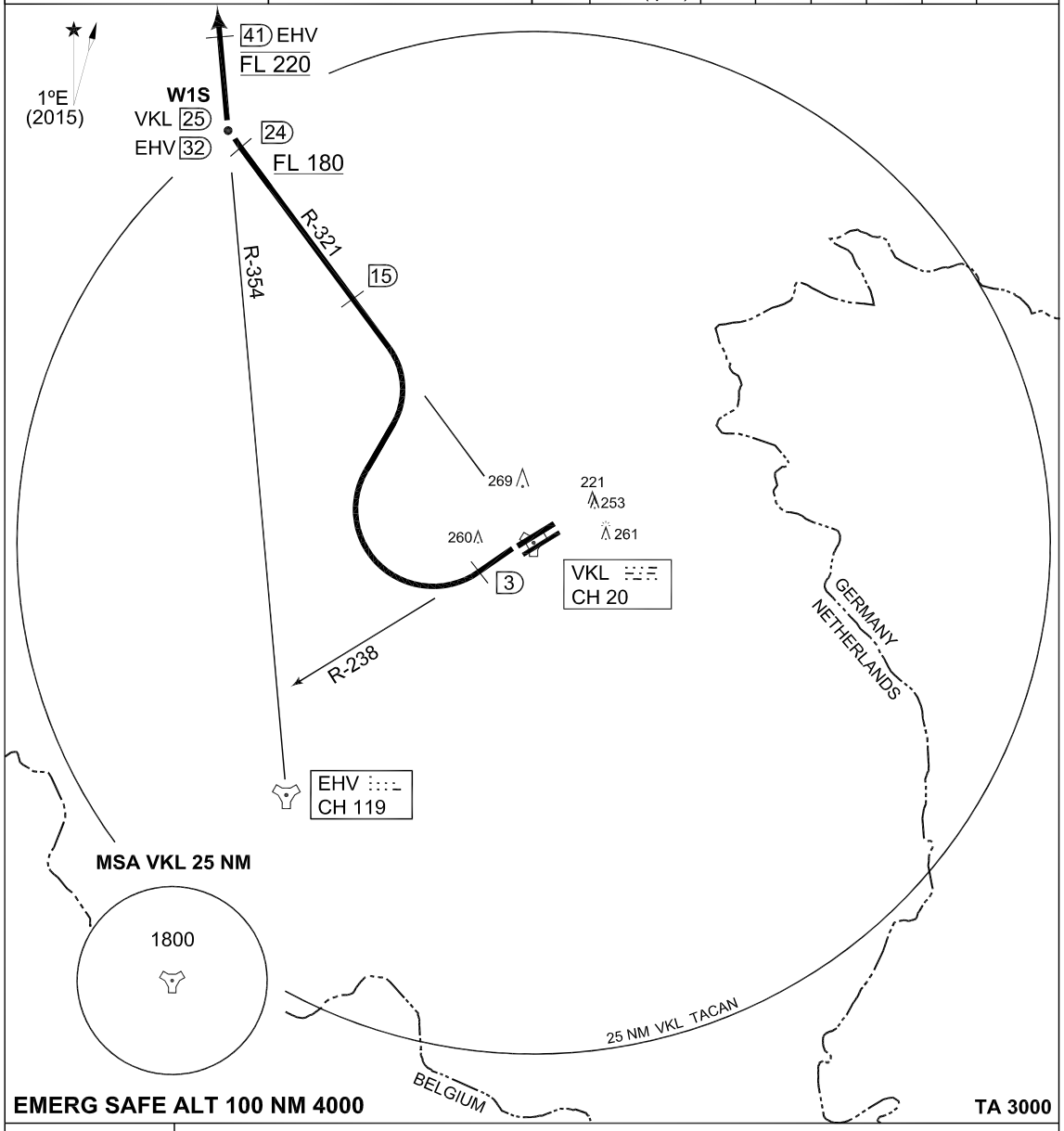
MIPS
INSTRUMENT DEPARTURE CHART

AD ELEV 73

VK5
VOLKEL (EHVK)

GND CTL	VOLKEL TWR	RAPCON SOUTH	DUTCH MIL
386.775	372.225 136.080	379.925 123.180	397.275 128.355

RWY	Knots	120	180	240	300	360	to
24	V/V (fpm)	540	810	1070	1340	1610	**400 ft**



VOLKEL 5 (RWY 24)	- Climb straight ahead to 3 DME from Volkel TACAN. - Turn right to intercept R-321 outbound. - Cross R-321 outbound, 24 DME at FL 180 or above. - At 24 DME turn right to intercept EHV R-354. - Cross EHV R-354/41 DME at FL 220, unless instructed otherwise by ATC.
NOTE:	- 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: FREQ

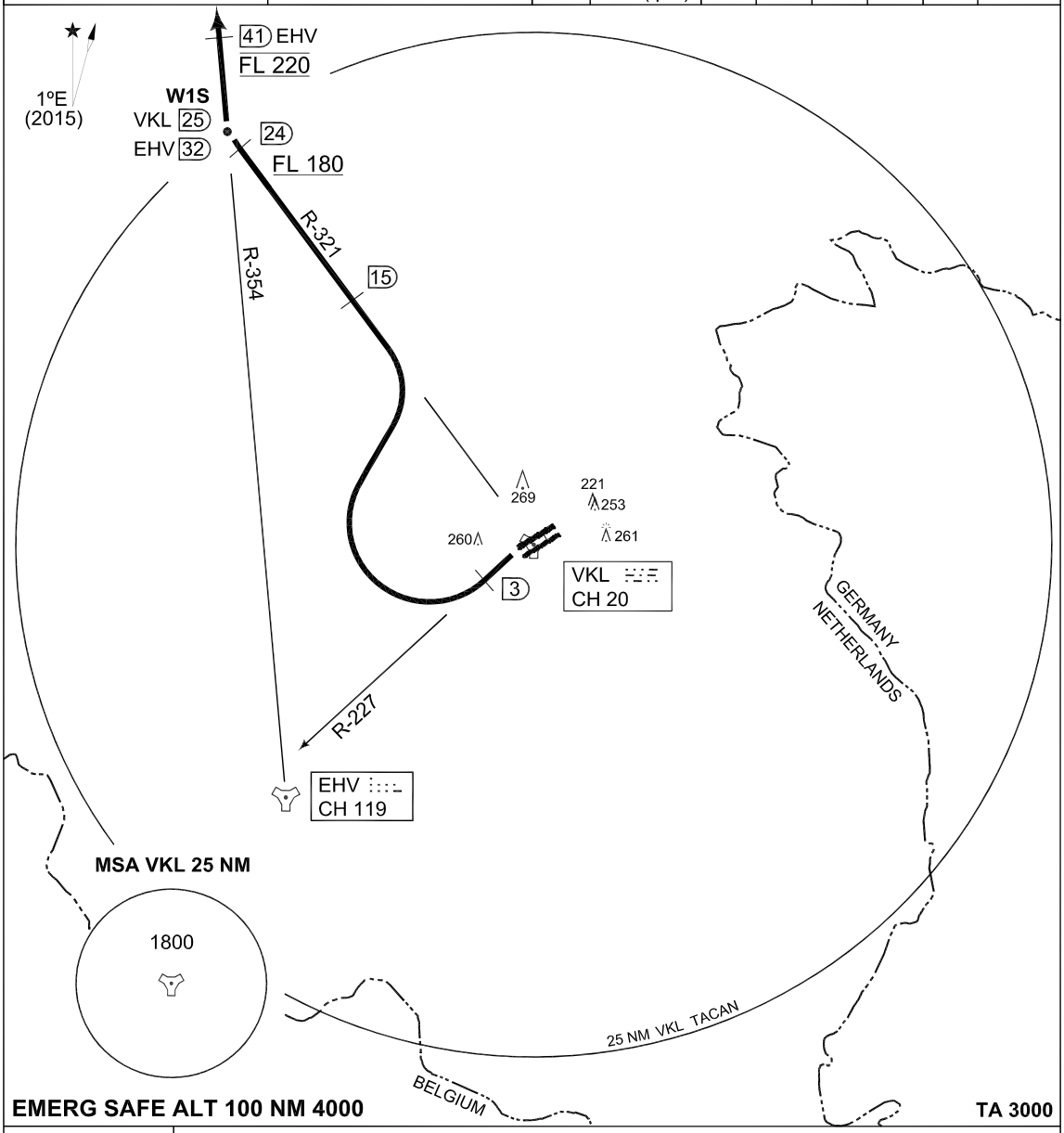
RNLAF 02 FEB 2017

MIPS **VK6**

INSTRUMENT DEPARTURE CHART AD ELEV 73 **VOLKEL (EHVK)**

GND CTL	VOLKEL TWR	RAPCON SOUTH	DUTCH MIL
386.775	372.225 136.080	379.925 123.180	397.275 128.355

RWY	Knots	120	180	240	300	360	to
24	V/V (fpm)	540	810	1070	1340	1610	**400 ft**



VOLKEL 6 (RWY 24)	- Climb and turn left to intercept R-227. - At 3 DME turn right to intercept R-321 outbound. - Cross R-321 outbound, 24 DME at FL 180 or above. - At 24 DME turn right to intercept EHV R-354. - Cross EHV R-354/41 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: EDITORIAL

RNLAF 04 JAN 2018