

Ministry of Defence
Military Aviation Authority the Netherlands
Airports and Airspace division
PO Box 20701
2500 ES Den Haag
MPC 58H

Rijswijk, 26 Jan 2023

AIRAC AMENDMENT 03/23
EFFECTIVE DATE 23 MAR 23

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	EHEH 2-8	EHEH 2-8	EHWO 2-12	EHWO 2-12
GEN 0.4-2	GEN 0.4-2			EHWO 2-20	EHWO 2-20
GEN 0.4-4	GEN 0.4-4	EHLW 2-17	EHLW 2-17	EHWO 2-24	EHWO 2-24
GEN 0.4-5	GEN 0.4-5	UP TO	UP TO		
GEN 0.4-6	GEN 0.4-6	EHLW 2-40	EHLW 2-40		
GEN 3.1-3	GEN 3.1-3				
		EHVK 2-9	EHVK 2-9		
ENR 3.5-3	ENR 3.5-3				

2. After completion:
 - a. destroy obsolete pages;
 - b. insert letter of promulgation before page GEN 0;
 - c. record the incorporation of this amendment on page GEN 0.2-1.
3. The following MIL NOTAM are incorporated:

Military Aviation Authority NLD
In order H-ALL

W.E.W. Jacobsen
Lt Colonel

GEN 0.4 CHECKLIST OF MIIAIP PAGES

PAGE	DATE		PAGE	DATE		PAGE	DATE
PART 1 - GENERAL (GEN)			GEN 1			2.2-6	12 NOV 2015
						2.3-1	27 JAN 2022
GEN 0			1.1-1	12 NOV 2015		2.3-2	27 JAN 2022
			1.1-2	12 NOV 2015		2.4-1	30 JAN 2020
0.1-1	12 NOV 2015		1.3-1	30 JAN 2020		2.4-2	12 NOV 2015
0.1-2	12 NOV 2015		1.3-2	12 NOV 2015		2.5-1	04 NOV 2021
0.1-3	07 DEC 2017		1.6-1	12 NOV 2015		2.5-2	12 NOV 2015
0.1-4	12 NOV 2015		1.6-2	30 JAN 2020		2.6-1	12 NOV 2015
0.2-1	23 APR 2020		1.6-3	03 NOV 2022		2.6-2	12 NOV 2015
0.2-2	30 JAN 2020		1.6-4	30 JAN 2020			
0.3-1	28 APR 2016		1.7-1	03 DEC 2020		GEN 3	
0.3-2	12 NOV 2015		1.7-2	22 APR 2021			
0.4-1	23 MAR 2023		1.7-3	22 APR 2021		3.1-1	30 JAN 2020
0.4-2	23 MAR 2023		1.7-4	22 APR 2021		3.1-2	07 DEC 2017
0.4-3	26 JAN 2023		1.7-5	22 APR 2021		3.1-3	23 MAR 2023
0.4-4	23 MAR 2023		1.7-6	12 NOV 2015		3.1-4	12 NOV 2015
0.4-5	23 MAR 2023					3.2-1	15 SEP 2016
0.4-6	23 MAR 2023		GEN 2			3.2-2	12 NOV 2015
0.5-1	12 NOV 2015					3.3-1	30 JAN 2020
0.5-2	12 NOV 2015		2.1-1	12 NOV 2015		3.3-2	26 JAN 2023
0.6-1	30 JAN 2020		2.1-2	12 NOV 2015		3.3-3	03 NOV 2022
0.6-2	06 DEC 2018		2.2-1	26 JAN 2023		3.3-4	12 NOV 2015
0.6-3	30 JAN 2020		2.2-2	13 OCT 2016		3.4-1	12 NOV 2015
0.6-4	30 JAN 2020		2.2-3	12 NOV 2015		3.4-2	12 NOV 2015
			2.2-4	12 NOV 2015		3.5-1	07 DEC 2017
			2.2-5	12 NOV 2015		3.5-2	01 FEB 2018

PAGE	DATE		PAGE	DATE		PAGE	DATE
3.5-3	12 NOV 2015		1.1-4	26 JAN 2023		1.10-3	03 NOV 2022
3.5-4	12 NOV 2015		1.1-5	26 JAN 2023		1.10-4	03 NOV 2022
3.5-5	12 NOV 2015		1.1-6	26 JAN 2023		1.11-1	03 JAN 2019
3.5-6	19 May 2022		1.2-1	29 DEC 2022		1.11-2	12 NOV 2015
3.6-1	30 JAN 2020		1.2-2	26 JAN 2023		1.12-1	30 JAN 2020
3.6-2	04 NOV 2021		1.3-1	18 JUN 2020		1.12-2	12 NOV 2015
3.6-3	18 AUG 2016		1.3-2	18 JUN 2020			
3.6-4	30 JAN 2020		1.3-3	18 JUN 2020		ENR 2	
			1.3-4	12 NOV 2015			
GEN 4			1.4-1	15 AUG 2019		2.1-1	29 DEC 2022
			1.4-2	12 NOV 2015		2.1-2	29 DEC 2022
4.1-1	12 NOV 2015		1.5-1	08 SEP 2022			
4.1-2	30 JAN 2020		1.5-2	12 NOV 2015		ENR 3	
			1.6-1	24 FEB 2022			
PART 2 EN-ROUTE (ENR)			1.6-2	26 JAN 2023		3.1-1	30 JAN 2020
			1.6-3	03 DEC 2020		3.1-2	12 NOV 2015
ENR 0			1.6-4	18 JUN 2020		3.5-1	29 DEC 2022
			1.7-1	12 NOV 2015		3.5-2	26 JAN 2023
0.6-1	16 JUN 2022		1.7-2	30 JAN 2020		3.5-3	23 MAR 2023
0.6-2	06 DEC 2018		1.8-1	12 OCT 2017		3.5-4	29 DEC 2022
0.6-3	29 DEC 2022		1.8-2	12 NOV 2015		3.5-5	29 DEC 2022
0.6-4	24 FEB 2022		1.9-1	30 JAN 2020		3.5-6	08 OCT 2020
0.6-5	29 DEC 2022		1.9-2	12 OCT 2017		3.5-7	24 FEB 2022
0.6-6	30 JAN 2020		1.10-1	03 NOV 2022		3.5-8	07 DEC 2017
			1.10-2	03 NOV 2022		3.5-9	07 DEC 2017
ENR 1						3.5-10	07 DEC 2017
1.1-1	29 DEC 2022					3.5-11	30 JAN 2020
1.1-2	30 JAN 2020						
1.1-3	26 JAN 2023						

PAGE	DATE		PAGE	DATE		PAGE	DATE
3.5-12	30 JAN 2020		5.2-6	21 JUN 2018		ENR 6	
3.5-13	24 FEB 2022		5.2-7	21 JUN 2018			
3.5-14	07 NOV 2019		5.2-8	26 JAN 2023		6.0-1	29 DEC 2022
3.5-15	12 NOV 2015		5.2-9	26 JAN 2023		6.0-2	12 NOV 2015
3.5-16	12 NOV 2015		5.2-10	26 JAN 2023		6.1-1	26 JAN 2023
3.5-17	16 JUN 2022		5.2-11	26 JAN 2023		6.1-2	05 NOV 2020
3.5-18	02 JAN 2020		5.2-12	26 JAN 2023		6.1-3	07 NOV 2019
			5.2-13	26 JAN 2023		6.1-4	30 MAR 2017
ENR 4			5.2-14	26 JAN 2023		6.1-5	03 NOV 2022
			5.2-15	26 JAN 2023		6.1-6	07 NOV 2019
4.1-1	03 NOV 2022		5.2-16	26 JAN 2023		6.1-7	07 NOV 2019
4.1-2	03 NOV 2022		5.2-17	26 JAN 2023		6.1-8	07 NOV 2019
4.1-3	03 NOV 2022		5.2-18	26 JAN 2023		6.1-9	07 NOV 2019
4.1-4	29 DEC 2022		5.2-19	26 JAN 2023		6.1-10	07 NOV 2019
4.1-5	03 NOV 2022		5.2-20	26 JAN 2023		6.1-11	07 NOV 2019
4.1-6	03 NOV 2022		5.2-21	26 JAN 2023		6.1-12	07 NOV 2019
			5.2-22	26 JAN 2023		6.1-13	07 NOV 2019
ENR 5			5.2-23	26 JAN 2023		6.1-14	07 NOV 2019
			5.2-24	26 JAN 2023		6.1-15	16 JUN 2022
5.1-1	26 JAN 2023					6.1-16	16 JUN 2022
5.1-2	26 JAN 2023					6.1-17	12 NOV 2015
5.1-3	26 JAN 2023		5.3-1	30 JAN 2020		6.1-18	29 DEC 2022
5.1-4	12 NOV 2015		5.3-2	12 NOV 2015		6.1-19	29 DEC 2022
5.2-1	09 NOV 2017		5.6-1	30 DEC 2021		6.1-20	29 DEC 2022
5.2-2	30 JAN 2020		5.6-2	12 NOV 2015		6.1-21	12 NOV 2015
5.2-3	26 JAN 2023					6.1-22	03 JAN 2019
5.2-4	30 JAN 2020					6.1-23	11 AUG 2022
5.2-5	24 FEB 2022					6.1-24	11 AUG 2022
						6.1-25	11 AUG 2022
						6.1-26	11 AUG 2022

PAGE	DATE		PAGE	DATE		PAGE	DATE
PART 3 AERODROMES (AD)			EHDL 2-8	12 SEP 2019		EHEH 2-18	09 SEP 2021
			EHDL 2-9	01 DEC 2022		EHEH 2-19	09 SEP 2021
AD 0			EHDL 2-10	24 FEB 2022		EHEH 2-20	09 SEP 2021
			EHDL 2-11	01 DEC 2022		EHEH 2-21	09 SEP 2021
0.6-1	12 NOV 2015		EHDL 2-12	01 DEC 2022		EHEH 2-22	09 SEP 2021
0.6-2	12 NOV 2015		EHDL 2-13	01 DEC 2022		EHEH 2-23	09 SEP 2021
0.6-3	12 NOV 2015		EHDL 2-14	01 DEC 2022		EHEH 2-24	09 SEP 2021
0.6-4	15 SEP 2016		EHDL 2-15	26 JAN 2023		EHEH 2-25	09 SEP 2021
0.6-5	15 SEP 2016		EHDL 2-16	24 FEB 2022		EHEH 2-26	09 SEP 2021
0.6-6	12 NOV 2015					EHEH 2-27	09 SEP 2021
			EHDP 2-1	12 AUG 2021		EHEH 2-28	09 SEP 2021
AD 1			EHDP 2-2	12 NOV 2015			
1.1-1	12 NOV 2015		EHEH 2-1	15 JUL 2021		EHGR 2-1	03 DEC 2020
1.1-2	12 NOV 2015		EHEH 2-2	26 MAR 2020		EHGR 2-2	12 NOV 2015
1.2-1	12 NOV 2015		EHEH 2-3	19 May 2022		EHGR 2-3	19 May 2022
1.2-2	12 NOV 2015		EHEH 2-4	28 JAN 2021		EHGR 2-4	28 JAN 2021
1.3-1	12 NOV 2015		EHEH 2-5	15 JUL 2021		EHGR 2-5	14 JUL 2022
1.3-2	12 NOV 2015		EHEH 2-6	14 JUL 2022		EHGR 2-6	30 JAN 2020
			EHEH 2-7	18 JUN 2020		EHGR 2-7	03 JAN 2019
AD 2			EHEH 2-8	23 MAR 2023		EHGR 2-8	03 DEC 2020
			EHEH 2-9	14 JUL 2022		EHGR 2-9	04 NOV 2021
EHDL 2-1	03 DEC 2020		EHEH 2-10	26 JAN 2023		EHGR 2-10	03 DEC 2020
EHDL 2-2	12 NOV 2015		EHEH 2-11	05 NOV 2020		EHGR 2-11	30 DEC 2021
EHDL 2-3	19 MAY 2022		EHEH 2-12	24 FEB 2022		EHGR 2-12	03 DEC 2020
EHDL 2-4	21 APR 2022		EHEH 2-13	14 JUL 2022		EHGR 2-13	03 DEC 2020
EHDL 2-5	03 NOV 2022		EHEH 2-14	30 DEC 2021			
EHDL 2-6	01 DEC 2022		EHEH 2-15	09 SEP 2021			
EHDL 2-7	01 DEC 2022		EHEH 2-16	09 SEP 2021			
			EHEH 2-17	09 SEP 2021			

PAGE	DATE		PAGE	DATE		PAGE	DATE
EHGR 2-14	03 DEC 2020		EHKD 2-20	11 AUG 2022		EHLW 2-20	23 MAR 2023
EHGR 2-15	30 DEC 2021		EHKD 2-21	26 JAN 2023		EHLW 2-21	23 MAR 2023
EHGR 2-16	24 FEB 2022		EHKD 2-22	11 AUG 2022		EHLW 2-22	23 MAR 2023
EHGR 2-17	03 DEC 2020		EHKD 2-23	11 AUG 2022		EHLW 2-23	23 MAR 2023
EHGR 2-18	03 DEC 2020		EHKD 2-24	11 AUG 2022		EHLW 2-24	23 MAR 2023
EHGR 2-19	03 DEC 2020		EHKD 2-25	11 AUG 2022		EHLW 2-25	23 MAR 2023
EHGR 2-20	03 DEC 2020		EHKD 2-26	15 JUL 2021		EHLW 2-26	23 MAR 2023
EHGR 2-21	03 DEC 2020					EHLW 2-27	23 MAR 2023
EHGR 2-22	03 DEC 2020					EHLW 2-28	23 MAR 2023
						EHLW 2-29	23 MAR 2023
EHKD 2-1	08 SEP 2022		EHLW 2-1	03 DEC 2020		EHLW 2-30	23 MAR 2023
EHKD 2-2	28 APR 2016		EHLW 2-2	03 DEC 2020		EHLW 2-31	23 MAR 2023
EHKD 2-3	19 MAY 2022		EHLW 2-3	19 MAY 2022		EHLW 2-32	23 MAR 2023
EHKD 2-4	28 APR 2016		EHLW 2-4	28 JAN 2021		EHLW 2-33	23 MAR 2023
EHKD 2-5	12 AUG 2021		EHLW 2-5	05 DEC 2019		EHLW 2-34	23 MAR 2023
EHKD 2-6	15 JUL 2021		EHLW 2-6	12 NOV 2015		EHLW 2-35	23 MAR 2023
EHKD 2-7	15 JUL 2021		EHLW 2-7	03 DEC 2020		EHLW 2-36	23 MAR 2023
EHKD 2-8	13 AUG 2020		EHLW 2-8	16 JUL 2020		EHLW 2-37	23 MAR 2023
EHKD 2-9	15 JUL 2021		EHLW 2-9	03 DEC 2020		EHLW 2-38	23 MAR 2023
EHKD 2-10	13 AUG 2020		EHLW 2-10	16 JUL 2020		EHLW 2-39	23 MAR 2023
EHKD 2-11	15 JUL 2021		EHLW 2-11	25 FEB 2021		EHLW 2-40	23 MAR 2023
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EHKD 2-13	15 JUL 2021		EHLW 2-13	14 JUL 2022		EHVK 2-1	03 DEC 2020
EHKD 2-14	24 FEB 2022		EHLW 2-14	24 FEB 2022		EHVK 2-2	12 NOV 2015
EHKD 2-15	04 NOV 2021		EHLW 2-15	25 FEB 2021		EHVK 2-3	19 May 2022
EHKD 2-16	15 JUL 2021		EHLW 2-16	25 FEB 2021		EHVK 2-4	28 JAN 2021
EHKD 2-17	24 FEB 2022		EHLW 2-17	23 MAR 2023		EHVK 2-5	12 AUG 2021
EHKD 2-18	14 JUL 2022		EHLW 2-18	23 MAR 2023		EHVK 2-6	12 NOV 2015
EHKD 2-19	30 DEC 2021		EHLW 2-19	23 MAR 2023		EHVK 2-7	30 DEC 2021

EHVK 2-8	05 NOV 2020		EHWO 2-16	03 NOV 2022		
EHVK 2-9	23 MAR 2023		EHWO 2-17	03 NOV 2022		
EHVK 2-10	14 JUL 2022		EHWO 2-18	03 NOV 2022		
EHVK 2-11	30 DEC 2021		EHWO 2-19	03 NOV 2022		
EHVK 2-12	03 DEC 2020		EHWO 2-20	23 MAR 2023		
EHVK 2-13	03 DEC 2020		EHWO 2-21	03 NOV 2022		
EHVK 2-14	03 DEC 2020		EHWO 2-22	03 NOV 2022		
EHVK 2-15	03 DEC 2020		EHWO 2-23	03 NOV 2022		
EHVK 2-16	03 DEC 2020		EHWO 2-24	23 MAR 2023		
EHVK 2-17	20 MAY 2021					
EHVK 2-18	03 DEC 2020					
EHVK 2-19	03 DEC 2020					
EHVK 2-20	09 SEP 2021					
EHVK 2-21	09 SEP 2021					
EHVK 2-22	05 NOV 2020					
EHWO 2-1	27 JAN 2022					
EHWO 2-2	28 JAN 2021					
EHWO 2-3	14 JUL 2022					
EHWO 2-4	19 MAY 2022					
EHWO 2-5	12 AUG 2021					
EHWO 2-6	28 JAN 2021					
EHWO 2-7	03 NOV 2022					
EHWO 2-8	03 NOV 2022					
EHWO 2-9	01 DEC 2022					
EHWO 2-10	03 NOV 2022					
EHWO 2-11	03 NOV 2022					
EHWO 2-12	23 MAR 2023					
EHWO 2-13	03 NOV 2022					
EHWO 2-14	03 NOV 2022					
EHWO 2-15	03 NOV 2022					

Whenever major changes are being planned, and where additional notice is practicable, the publication date will be 56 days in advance of the AIRAC effective date.

AMDT	2023		2024	
	Publication date	Effective date	Publication date	Effective date
1	29 DEC 22	26 JAN 23	28 DEC 23	25 JAN 24
2	26 JAN 23	23 FEB 23	25 JAN 24	22 FEB 24
3	23 FEB 23	23 MAR 23	22 FEB 24	21 MAR 24
4	23 MAR 23	20 APR 23	21 MAR 24	18 APR 24
5	20 APR 23	18 MAY 23	18 APR 24	16 MAY 24
6	18 MAY 23	15 JUN 23	16 MAY 24	13 JUN 24
7	15 JUN 23	13 JUL 23	13 JUN 24	11 JUL 24
8	13 JUL 23	10 AUG 23	11 JUL 24	08 AUG 24
9	10 AUG 23	07 SEP 23	08 AUG 24	05 SEP 24
10	07 SEP 23	05 OCT 23	05 SEP 24	03 OCT 24
11	05 OCT 23	02 NOV 23	03 OCT 24	31 OCT 24
12	02 NOV 23	30 NOV 23	31 OCT 24	28 NOV 24
13	30 NOV 23	28 DEC 23	28 NOV 24	26 DEC 24

GEN 3.1.5 Pre-flight information service at aerodromes/heliports

Not applicable.

GEN 3.1.6 Electronic terrain and obstacle data

Not applicable.



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ENR 3.5.2 Windows

DEFINITION

A Window is an established volume of airspace, as agreed between two ATS units, defined as 5 NM each side of a centreline, at one or more agreed flight levels. The activation of which is to take place within agreed time limits.

PURPOSE AND USE

In order to facilitate an expeditious handling of OAT, crossing the ATS route system, a series of temporary Windows are established. The Windows are designated primarily for facilitating RNLAf ACFT but can also be utilised by NATO ACFT upon pilot request or controller initiative. Use of Windows is not compulsory.

PROCEDURES

OAT flights shall be level prior to entering the Window and only change their level after exiting. Due to unforeseen circumstances, e.g. weather, emergency, OAT may deviate from a Window subject to co-ordination.

To maintain separation in the Windows pilots are obligated to fly the same airspeed. Standard airspeed for Windows is Mach 0.85. For Window 3 (UW3) South to North at FL 150 the standard airspeed is 350 KCAS.

For flightplanning procedures see ENR 1.10.

ENR 3.5.2.1 Window 1 (UW1)**Window 1 (UW1) is depicted on charts ENR 6.****Entry and Exit points:**

Name	Lat and Long	TACAN Range and Bearing 2'E (2020)
W1N	52°47'20"N 005°10'14"E	EHV – R-353/81
W1C	52°07'33"N 005°16'23"E	EHV – R-353/41
W1S	51°58'55"N 005°17'42"E	EHV – R-353/32
EHV	51°26'53"N 005°22'30"E	EHV

Direction and Flight level

Route	Entry Point	Exit point	Flight level(s)
South to North	W1S	W1N	220 *)
North to South	W1N	W1S	280/330

NOTE: *) Routesegment W1S -> W1C ≥ FL 180 but not above FL 220.
Routesegment W1C -> W1N = FL 220

ENR 3.5.2.2 Window 2 (UW2)**Window 2 (UW2) is depicted on charts ENR 6.****Entry and Exit points:**

Name	Lat and Long	TACAN Range and Bearing 2'E (2020)
W2N	53°08'12"N 005°58'18"E	LWD – R-122/10
W2S	52°53'59"N 006°31'38"E	LWD – R-123/34

Direction Flight level

Route	Entry Point	Exit point	Flight level(s)
North to South	W2N	W2S	280/390
South to North	W2S	W2N	270

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

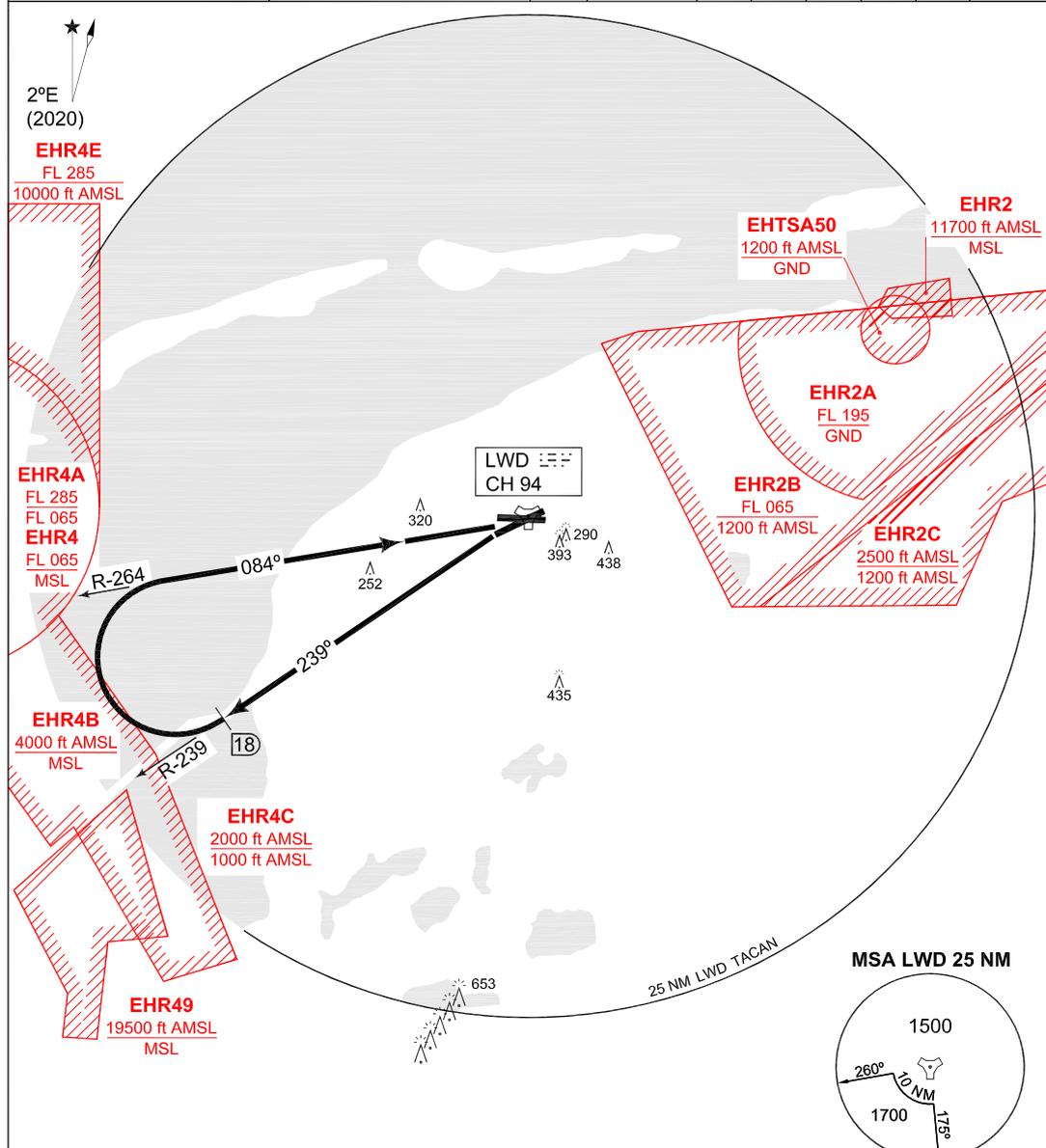
Serial Number	Path Des- criptor	WPT Ident	Fly Over	Course Mag°/(T°)	Recom navaid	Dist nm	turn	Altitude (ft AMSL)	Speed (KIAS)	VPA (°TCH(ft))	NAV spec
001	IF	BESTI						+2000			RNAV1
002	TF	GILIV		123/(124.2)		5.0		+2000			RNAV1
003	IF	GEMTI						+2000			RNAV1
004	TF	GILIV		304/(306.1)		5.0		+2000			RNAV1
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

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) - Climb on R-239 outbound Leeuwarden TACAN.
 - At 18 DME turn right to intercept R-264 inbound and proceed to Leeuwarden TACAN.

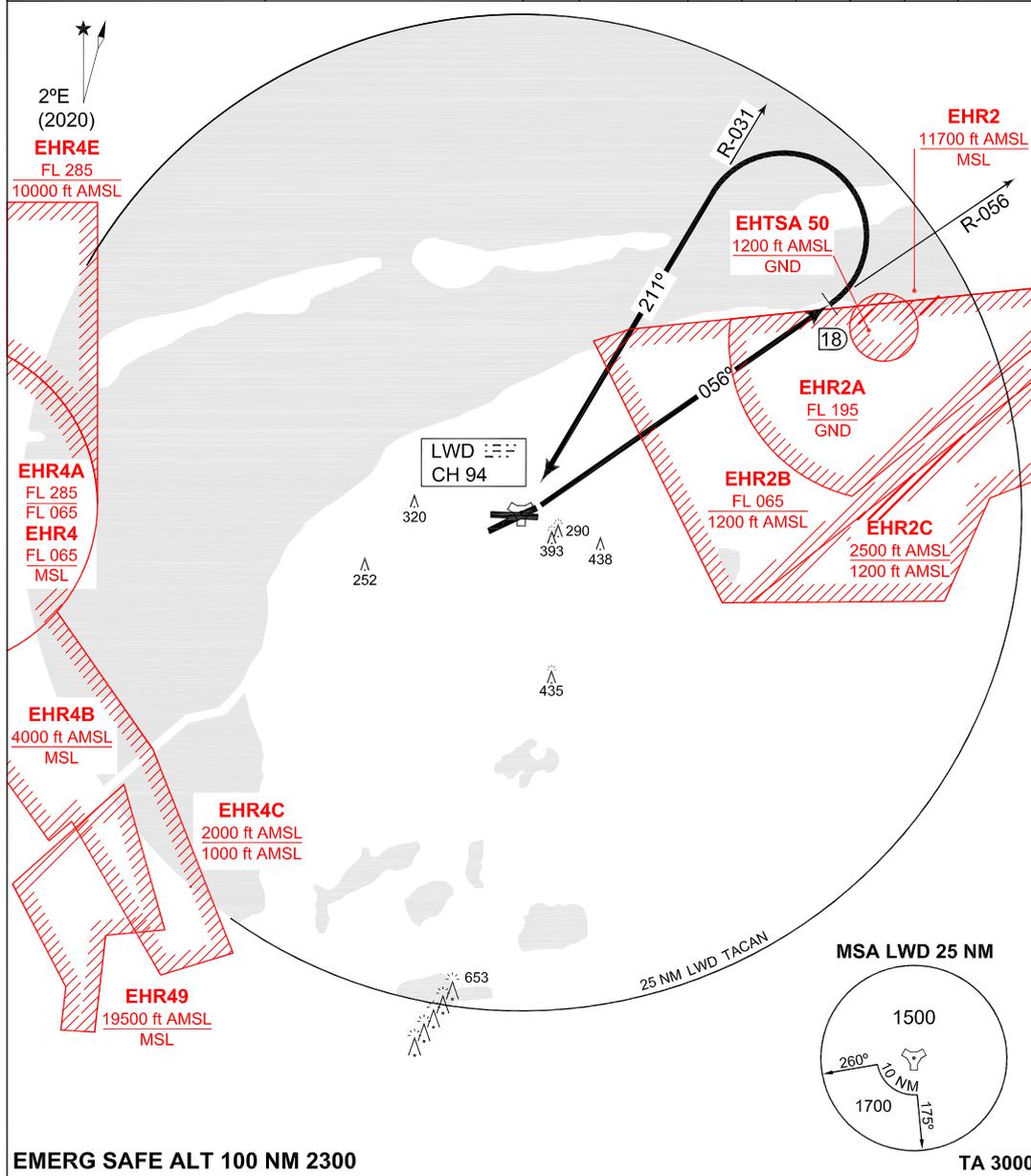
NOTE: Procedure may be changed by ATC when BREEZANDDIJK firing range is active.

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

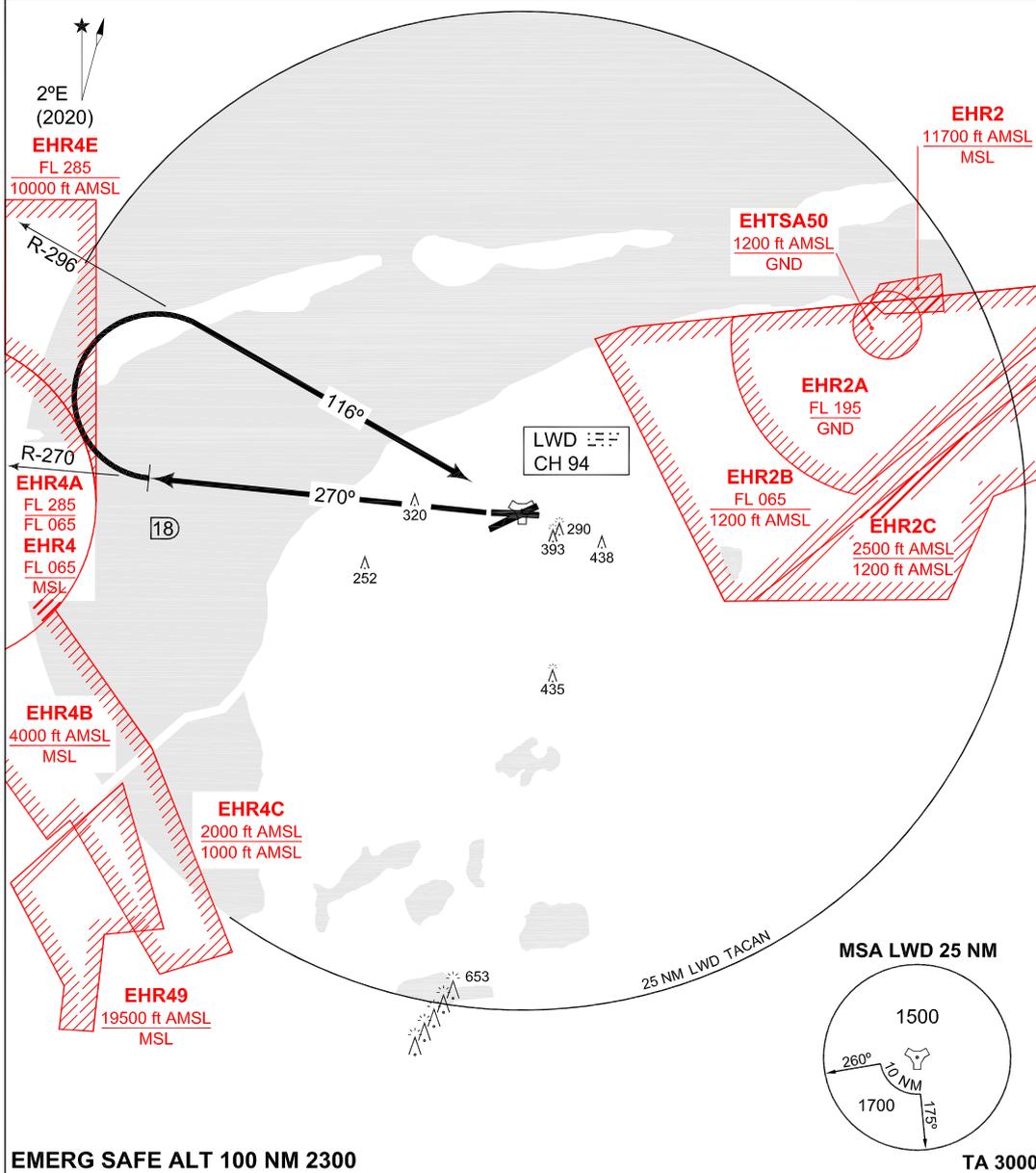
LEEUWARDEN 3 (RWY 05)

- 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



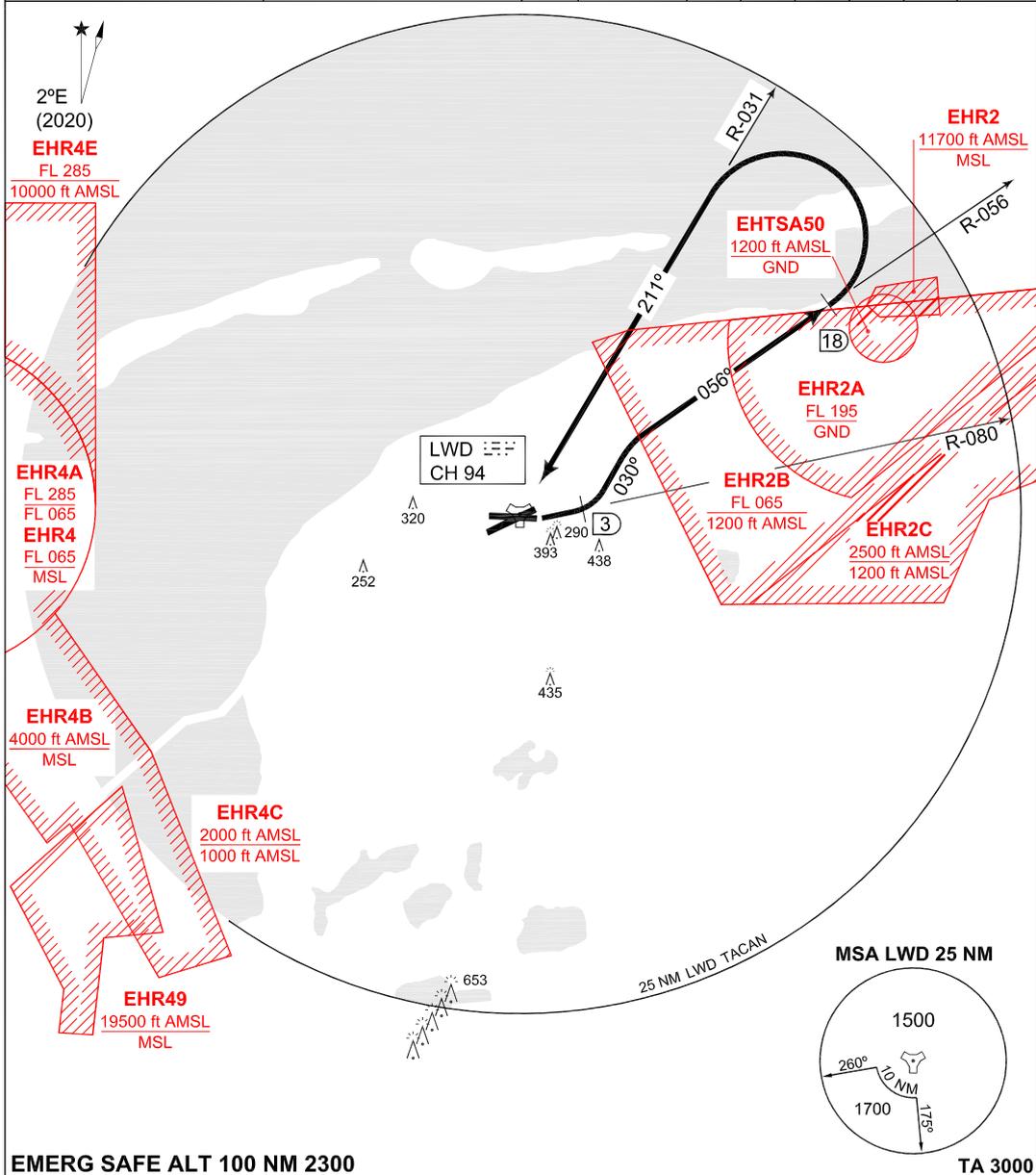
EMERG SAFE ALT 100 NM 2300 **TA 3000**

<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.
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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

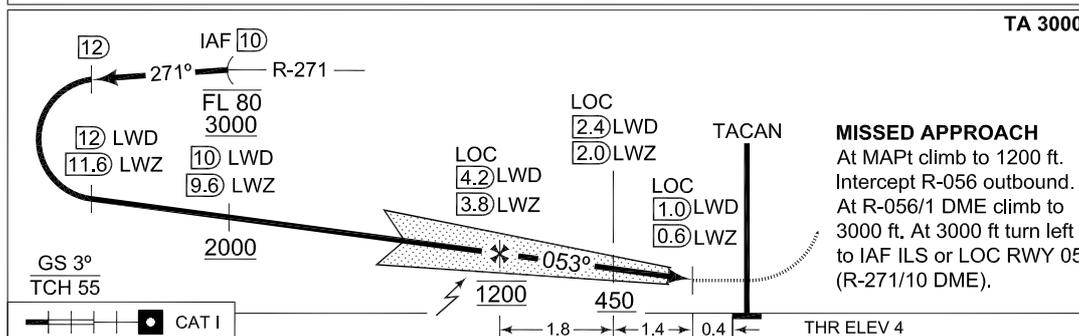
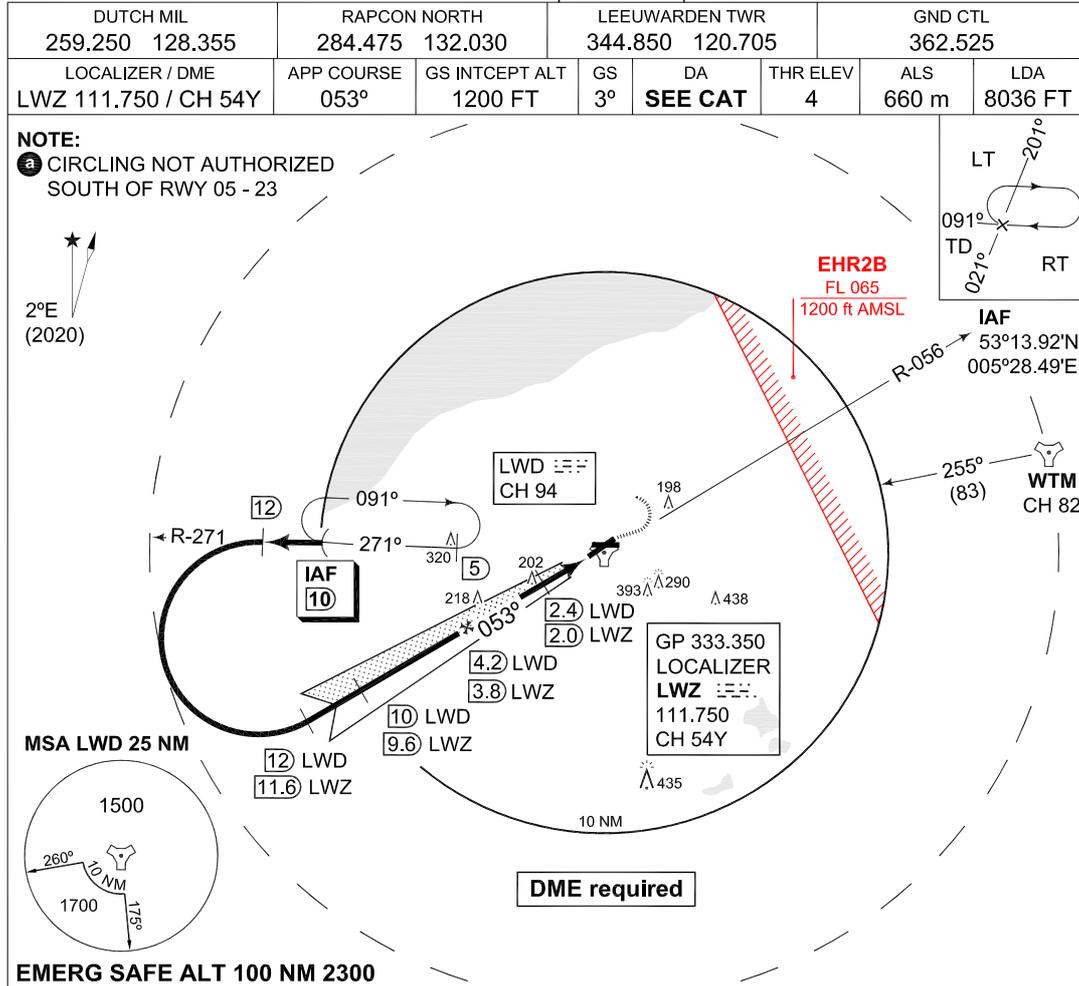
CHANGES: MSA

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)**



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

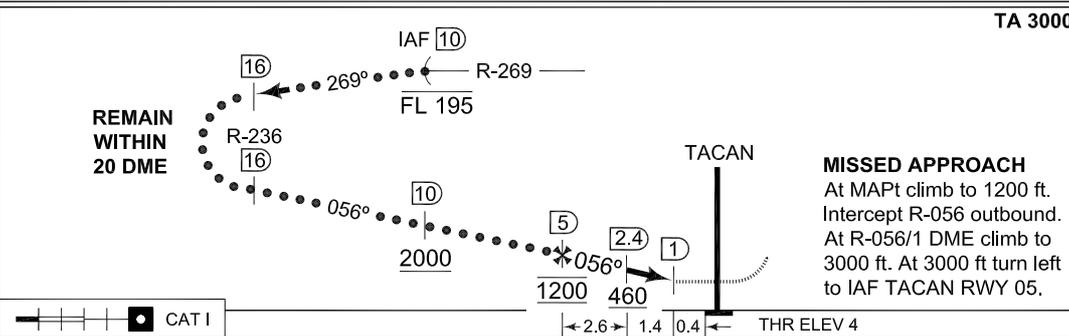
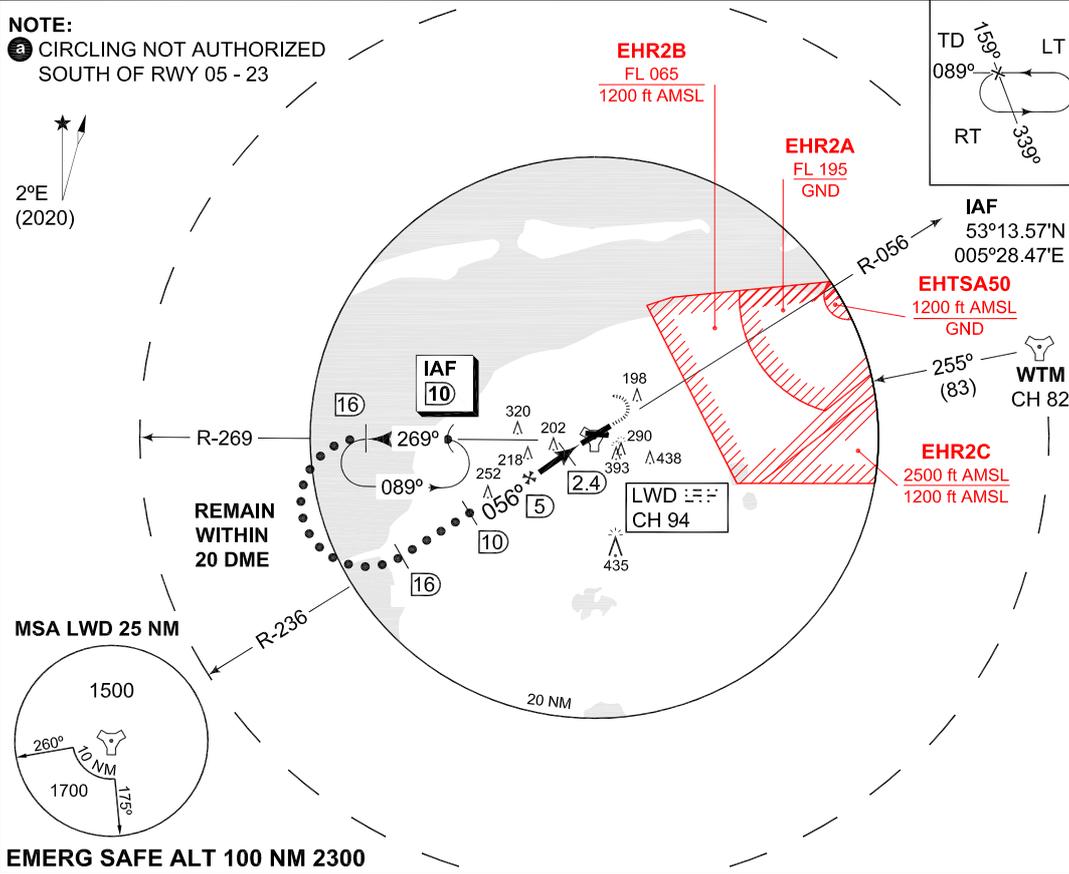
RNLAF 23 MAR 2023

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

NOTE:

- a** CIRCLING NOT AUTHORIZED SOUTH OF RWY 05 - 23



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

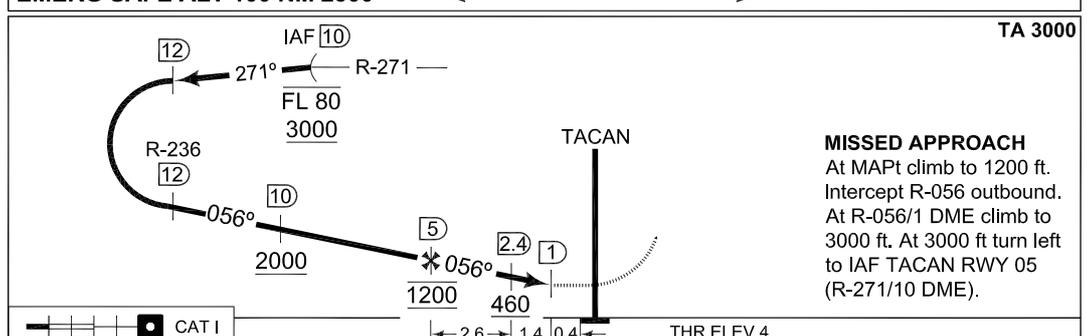
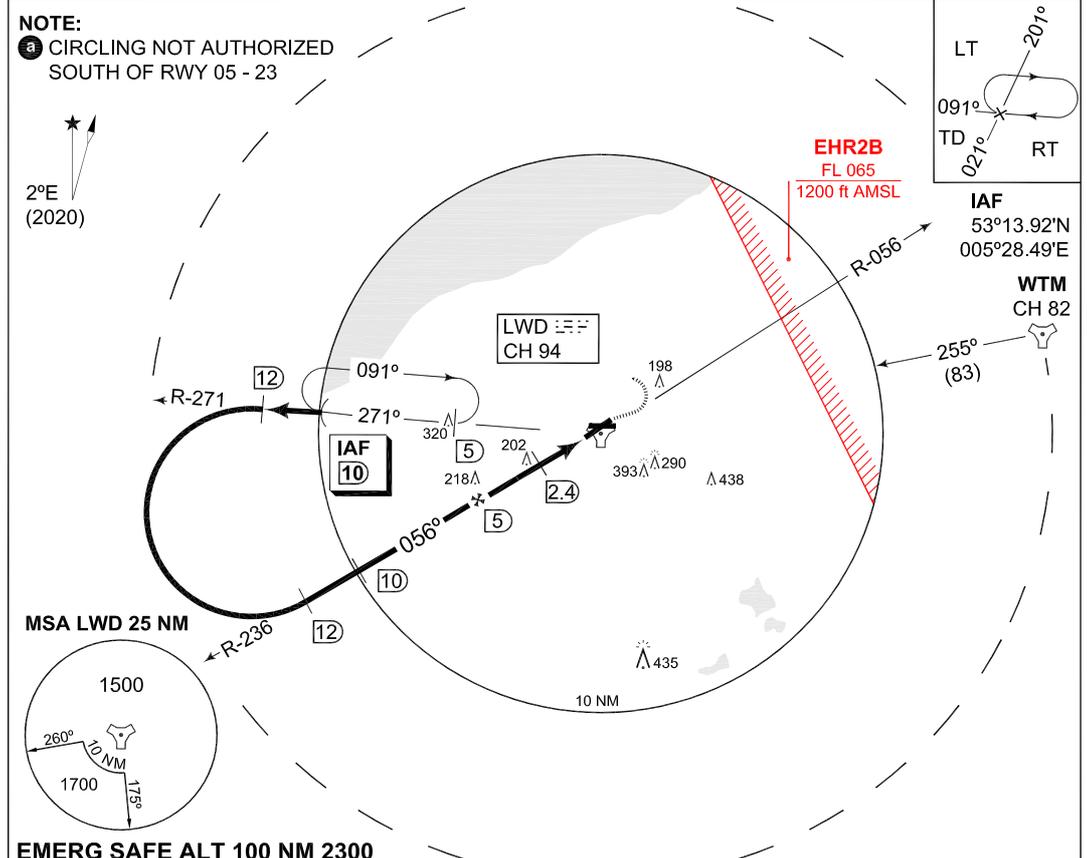
CHANGES: MSA

MIPS

RNLAf 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



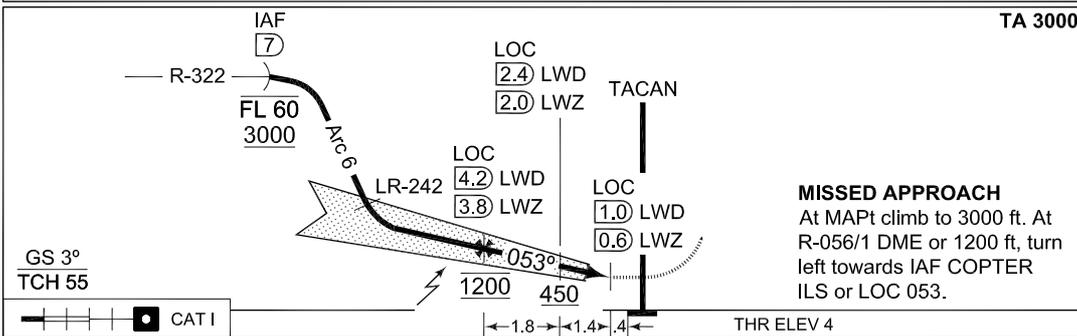
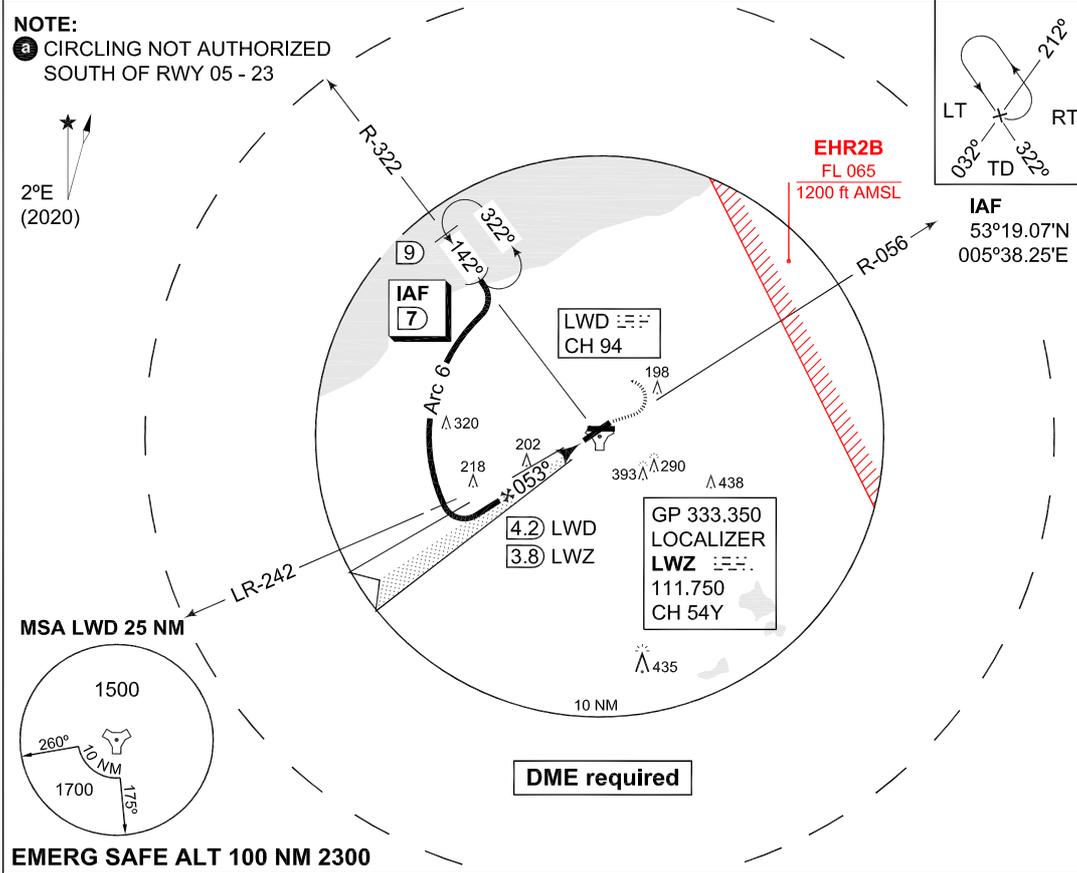
CATEGORY	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
	A	B	C	D	E
S-TACAN 05	380 -800 376 (400-0.8/1.6)	380 -1200 376 (400-1.2/1.6)	380 -1200 376 (400-1.2/2.0)		
CIRCLING ⓐ	500 -1900 496 (500-1.9)	510 -2800 506 (600-2.8)	610 -3700 606 (700-3.7)	720 -4600 716 (800-4.6)	820 -6500 816 (900-6.5)

CHANGES: MSA MIPS

RNLAF 23 MAR 2023

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

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 204	THR ELEV 4
		ALS 660 m	LDA 8036 FT



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)

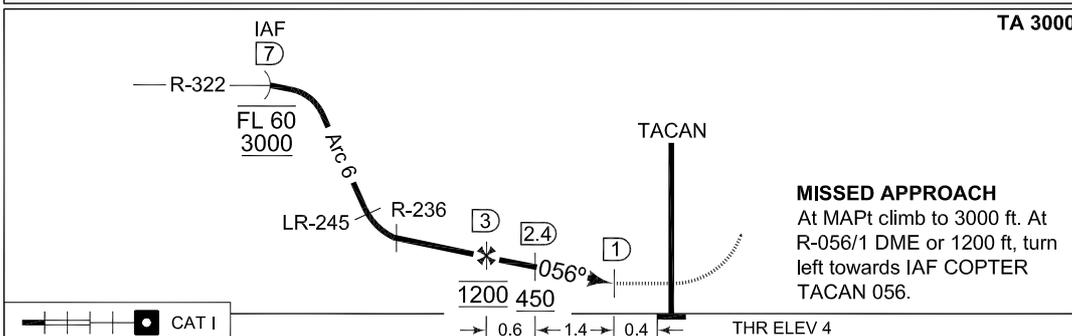
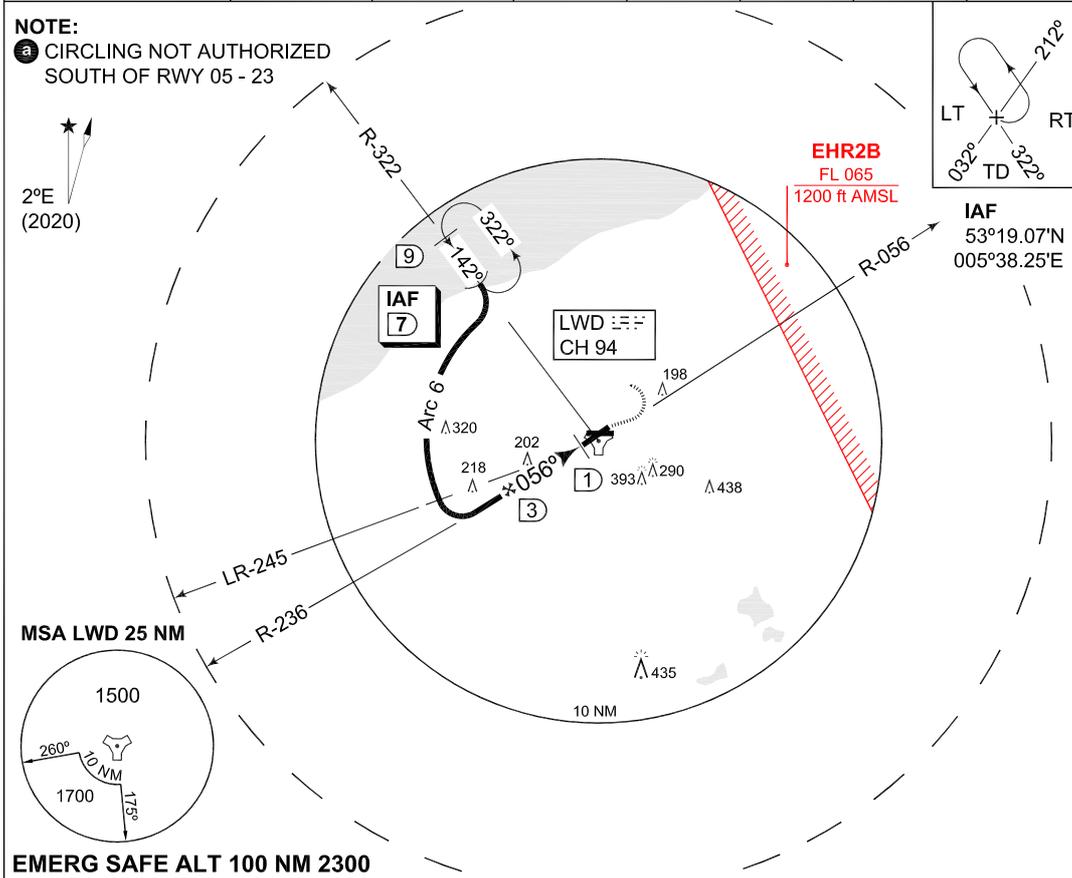
CHANGES: MSA

MIPS

RNLAZ 23 MAR 2023

MIPS INSTRUMENT APPROACH CHART **COPTER TACAN 056 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	A
COPTER TACAN 056	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**

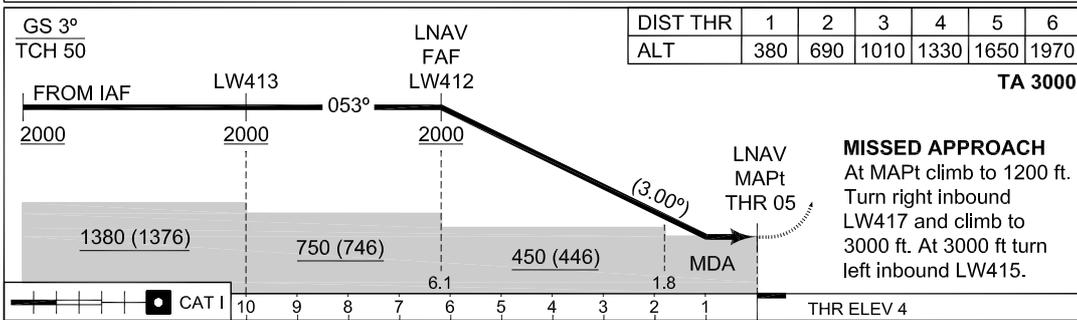
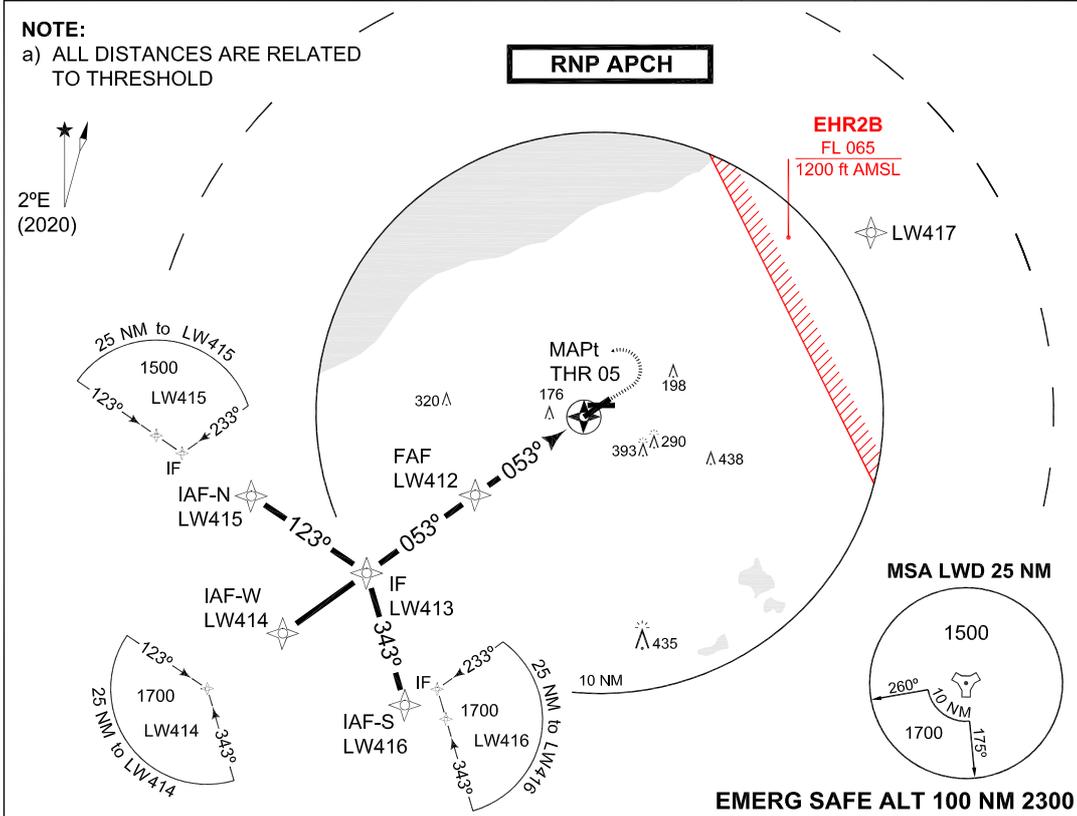
**RNP Z RWY 05
LEEUWARDEN (EHLW)**

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



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**

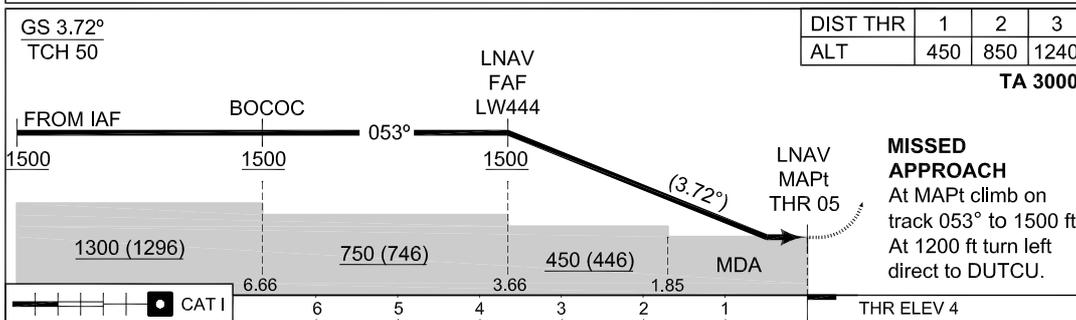
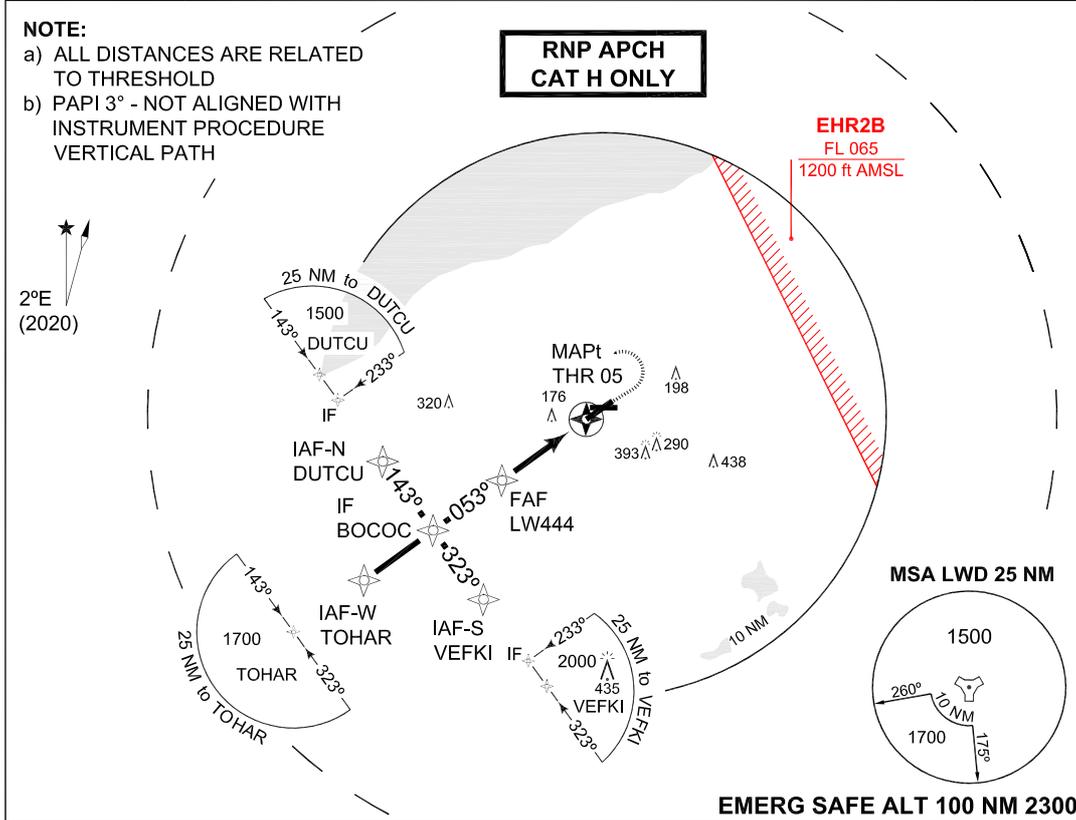
**RNP Y RWY 05
LEEUWARDEN (EHLW)**

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 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:

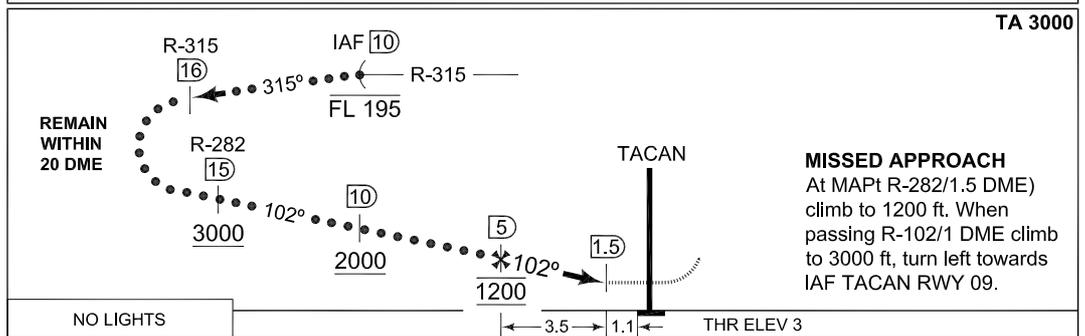
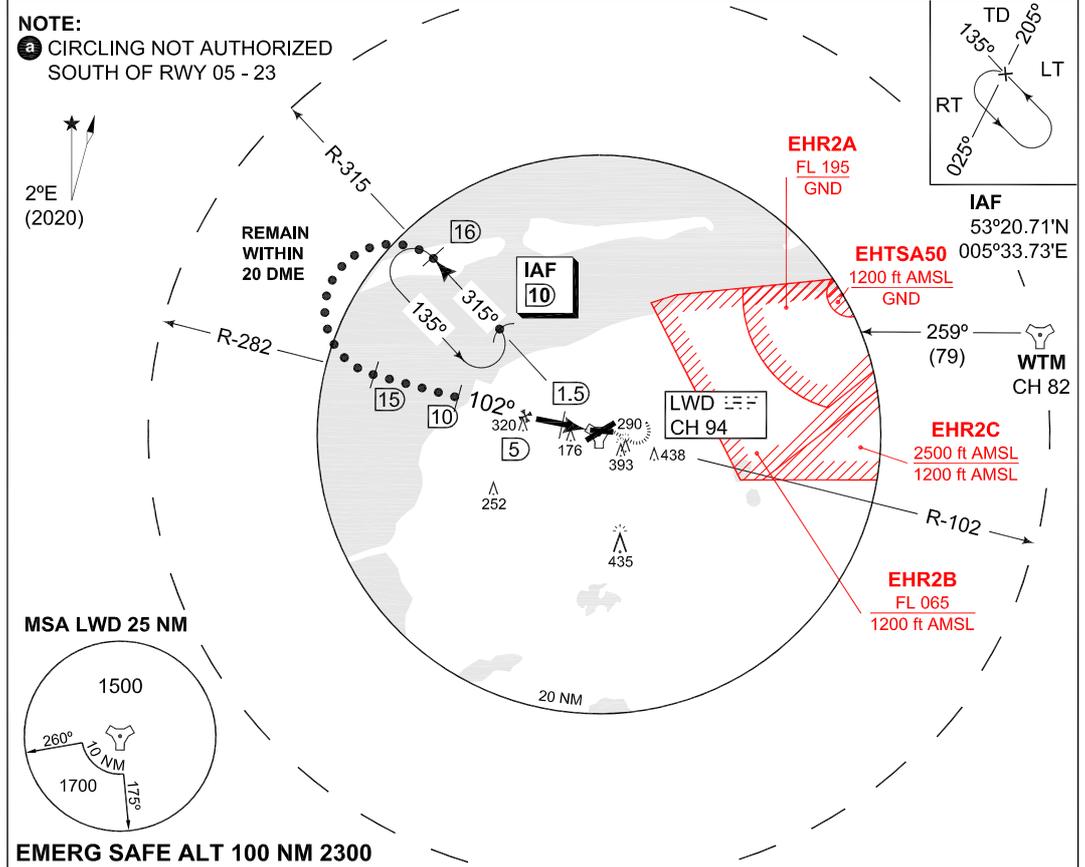
- a) ALL DISTANCES ARE RELATED TO THRESHOLD
- b) PAPI 3° - NOT ALIGNED WITH INSTRUMENT PROCEDURE VERTICAL PATH



CATEGORY		H					
MIPS	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 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



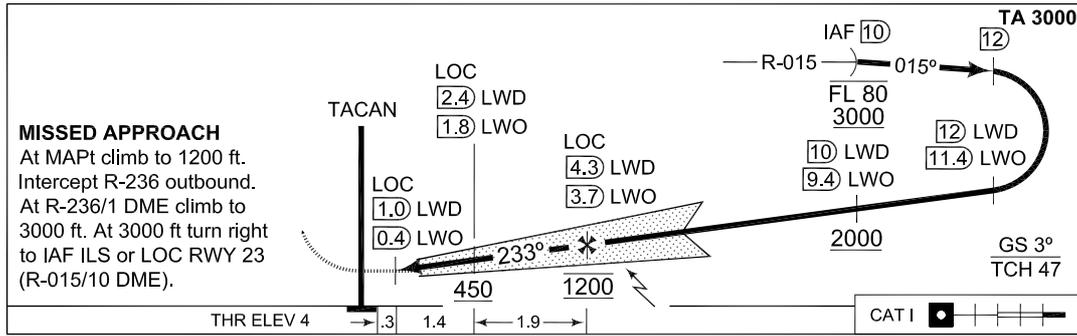
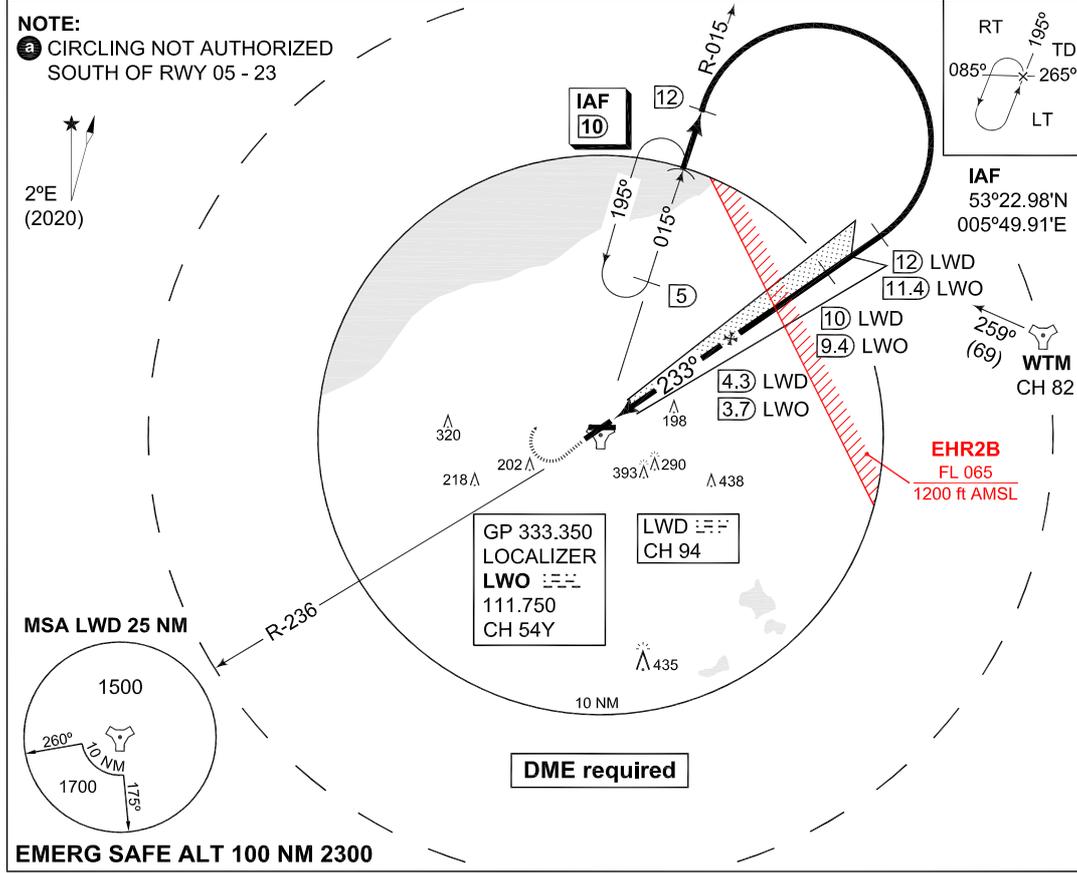
CATEGORY	C		D		E	
	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1					
S-TACAN 09	440 -2000 437 (500-2.0/2.0)		440 -2400 437 (500-2.4/2.4)			
CIRCLING Ⓢ	610 -3700 606 (700-3.7)		720 -4600 716 (800-4.6)		820 -6500 816 (900-6.5)	

CHANGES: MSA
MIPS

RNLAF 23 MAR 2023

MIPS INSTRUMENT APPROACH CHART AD ELEV 4 **ILS or LOC RWY 23 LEEUWARDEN (EHLW)**

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

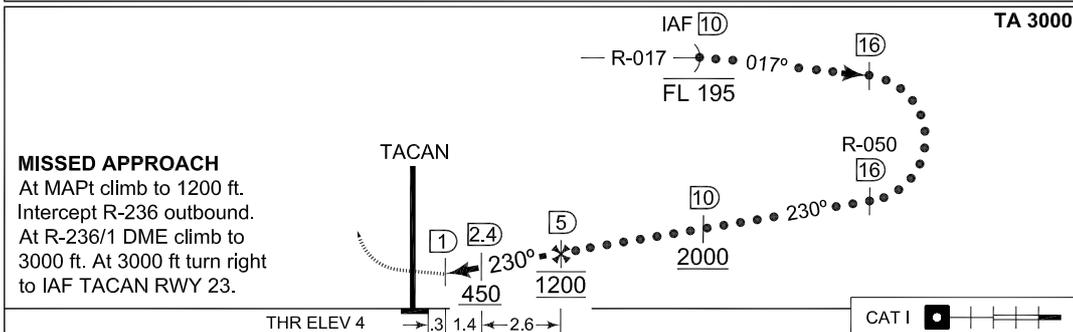
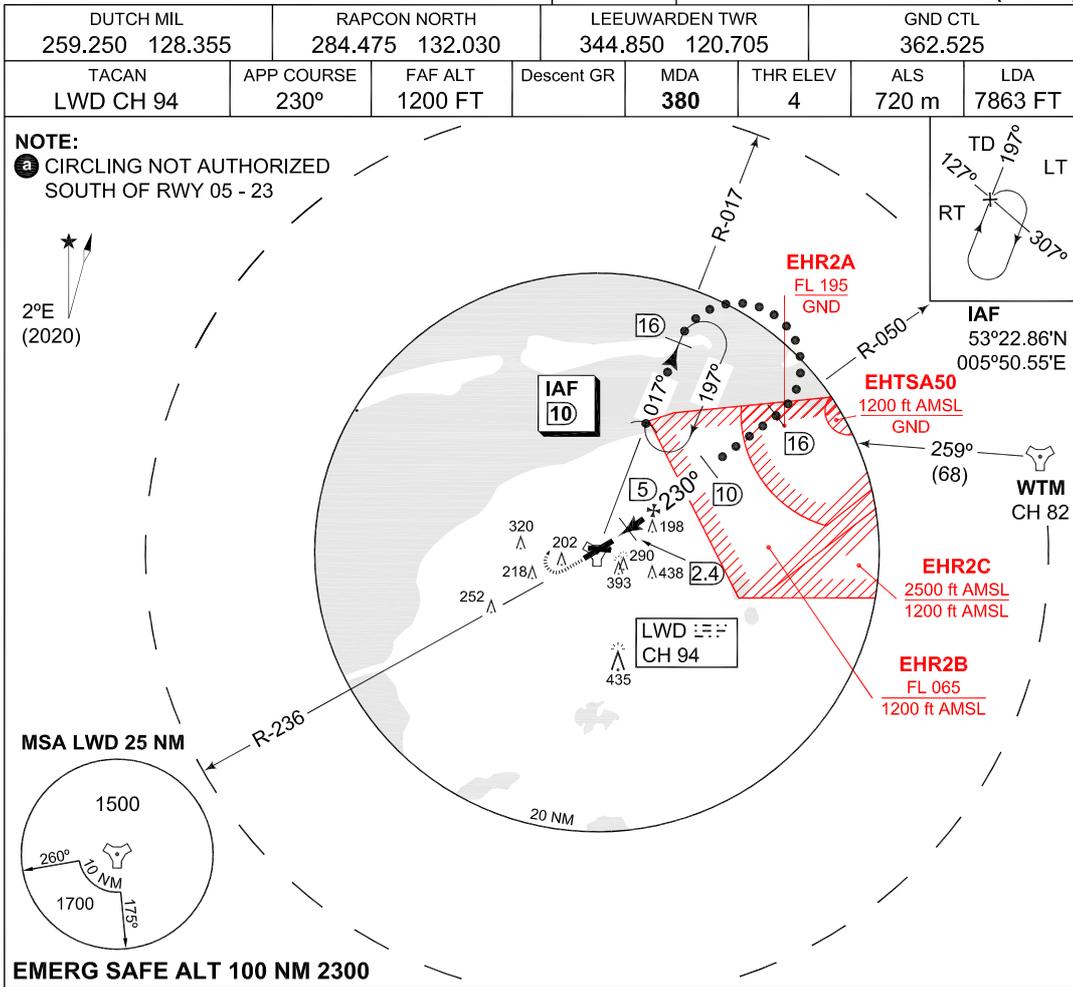


CATEGORY	A	B	C	D	E
MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1					
S-ILS 23	217-800 213 (300-0.8/1.6)	227-800 223 (300-0.8/1.6)	237-800 233 (300-0.8/1.6)	247-800 243 (300-0.8/1.6)	265-800 262 (300-0.8/1.6)
S-LOC 23	340-800 336 (400-0.8/1.6)		340-1200 336 (400-1.2/1.6)	340-1200 336 (400-1.2/2.0)	
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)**

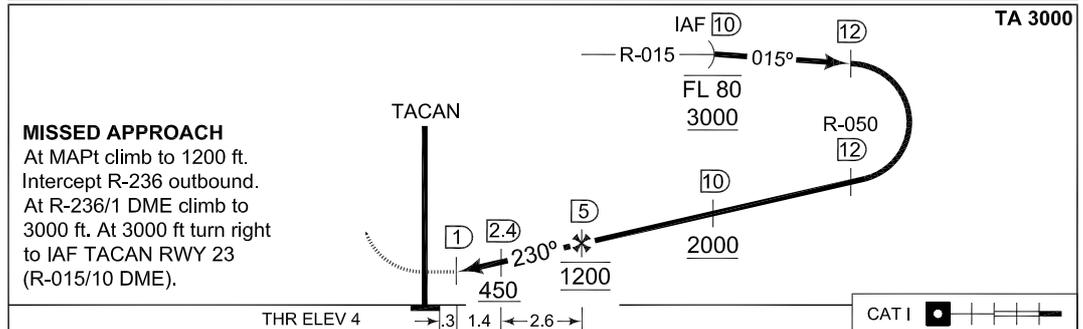
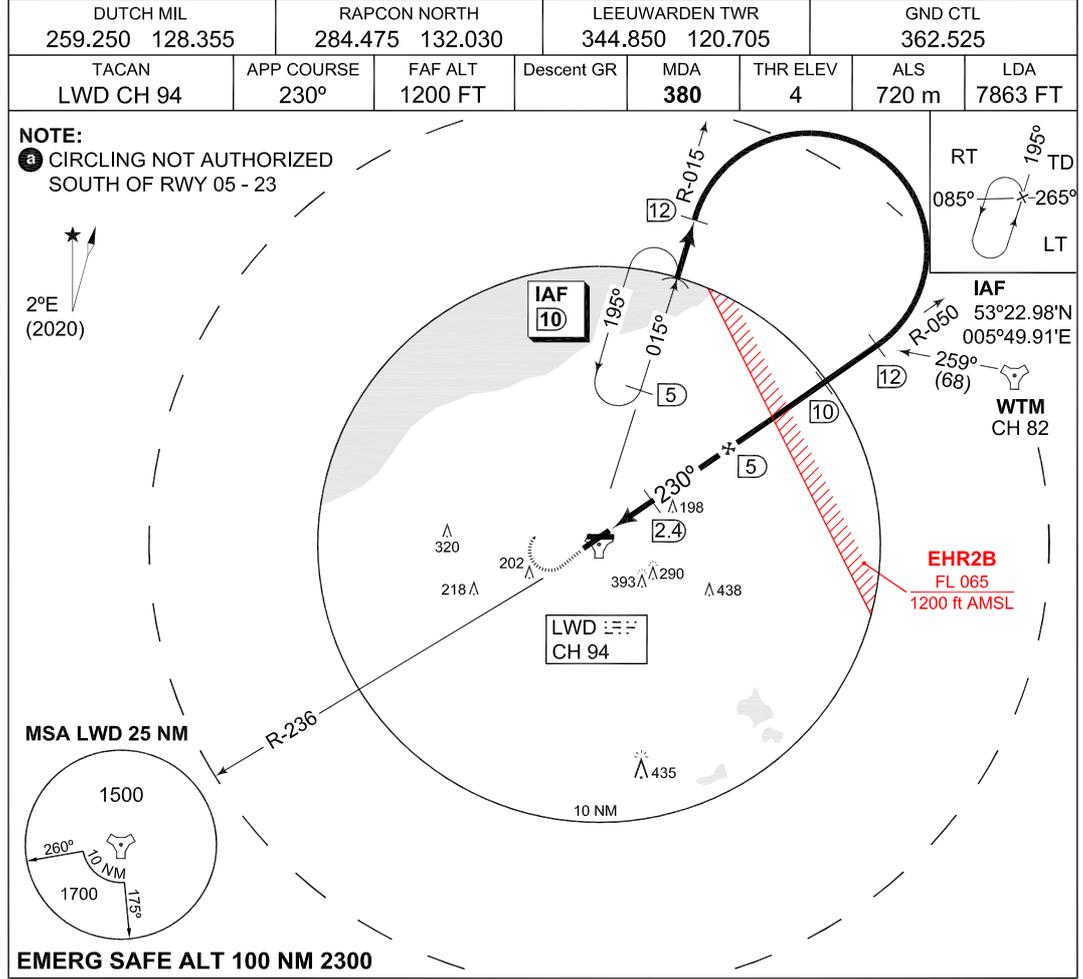


CATEGORY	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1	
	C	D
S-TACAN 23	380 -1200 376 (400-1.2/1.6)	380 -1200 376 (400-1.2/2.0)
CIRCLING a	610 -3700 606 (700-3.7)	720 -4600 716 (800-4.6)
		820 -6500 816 (900-6.5)

CHANGES: MSA

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



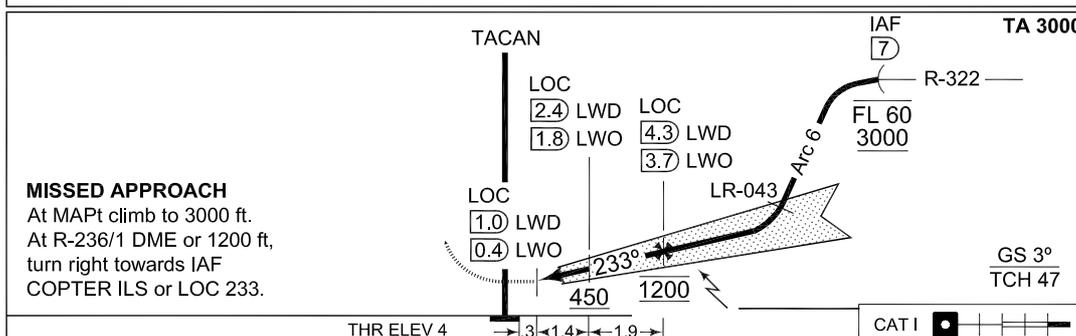
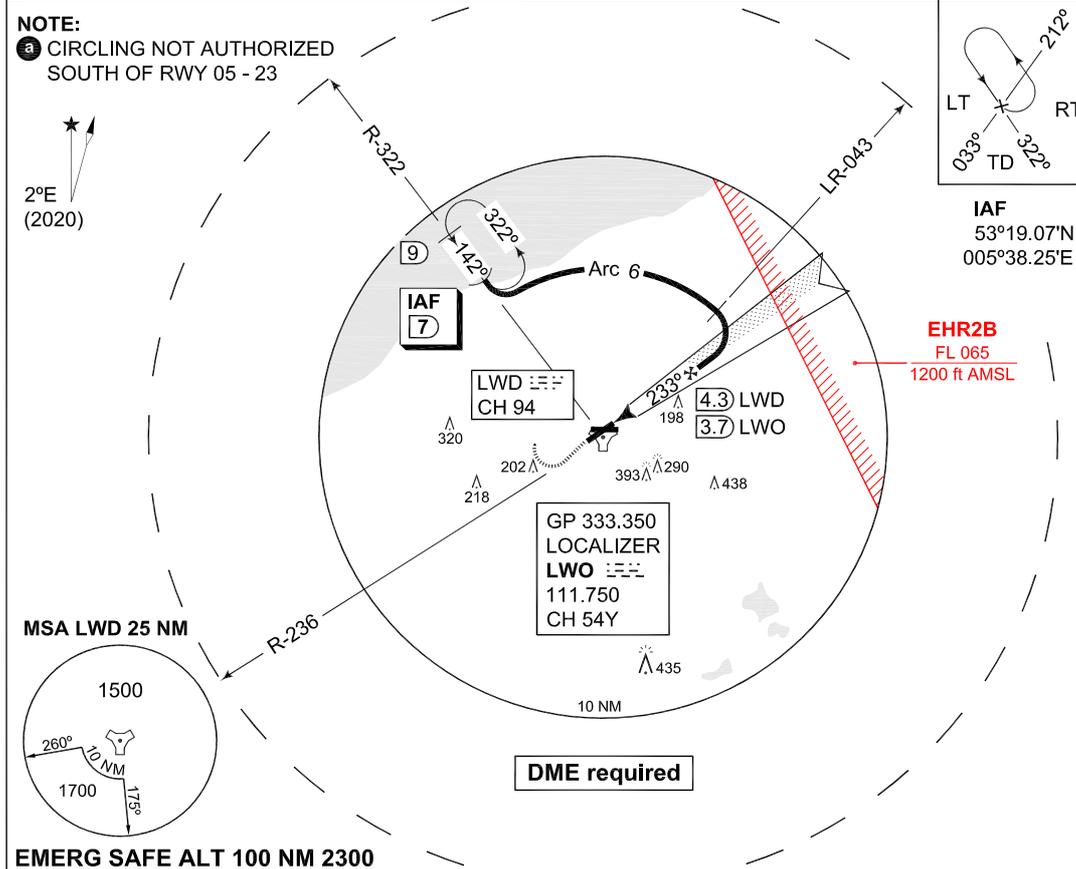
CATEGORY	MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1				
	A	B	C	D	E
S-TACAN 23	380 -800 376 (400-0.8/1.6)	380 -1200 376 (400-1.2/1.6)	380 -1200 376 (400-1.2/2.0)		
CIRCLING a	500 -1900 496 (500-1.9)	510 -2800 506 (600-2.8)	610 -3700 606 (700-3.7)	720 -4600 716 (800-4.6)	820 -6500 816 (900-6.5)

CHANGES: MSA

RNLAF 23 MAR 2023

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



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)

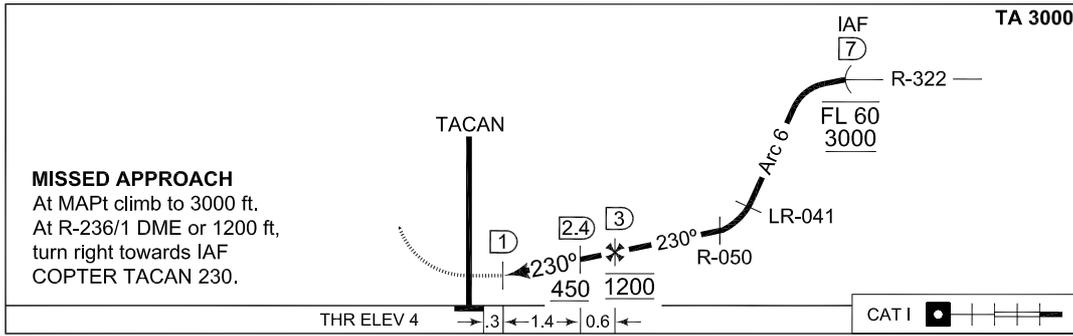
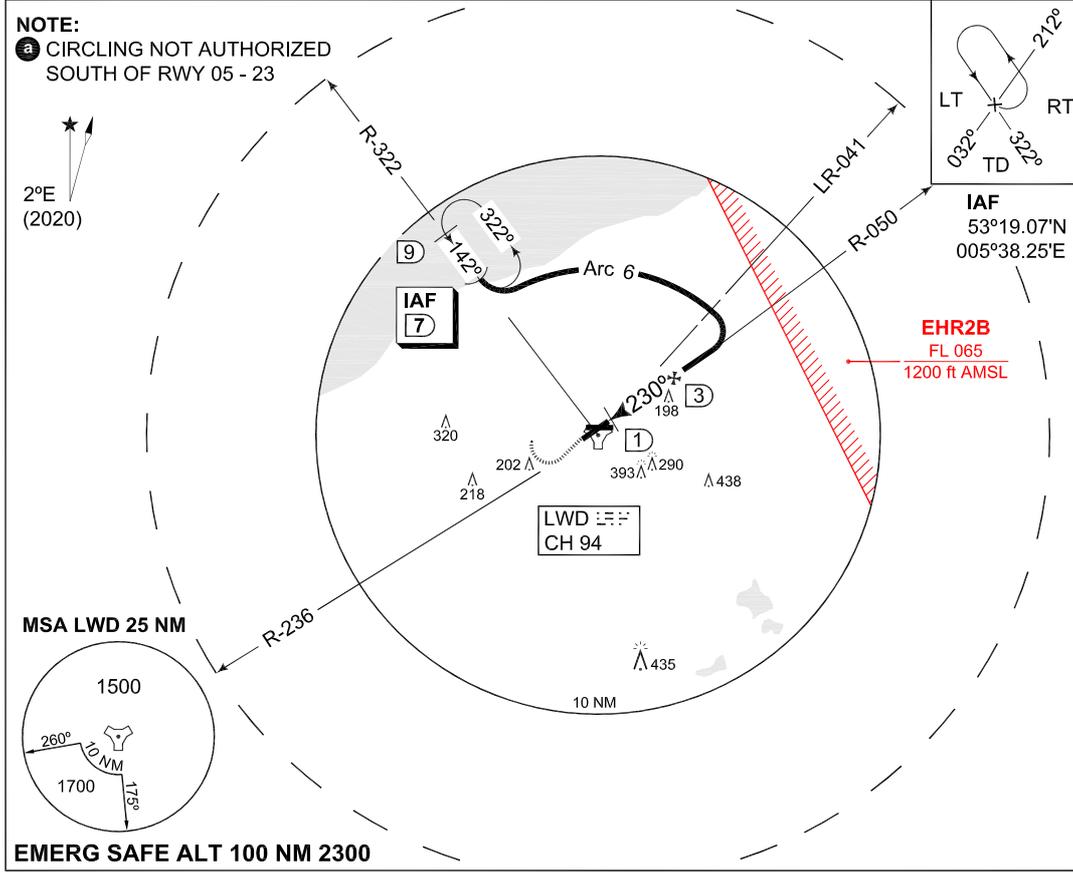
CHANGES: MSA

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)

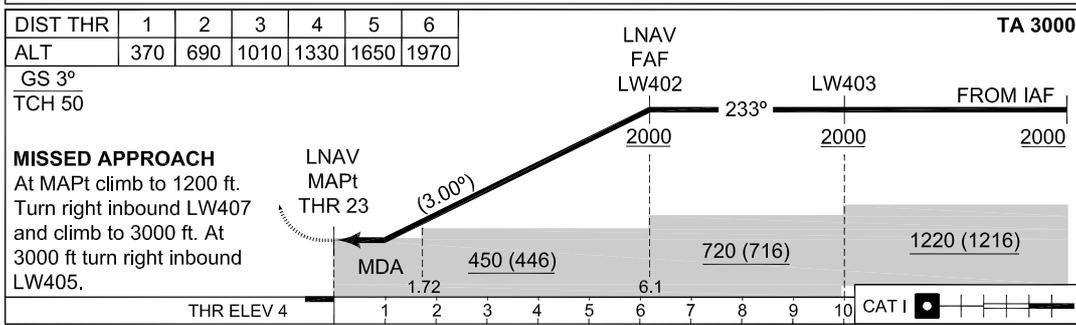
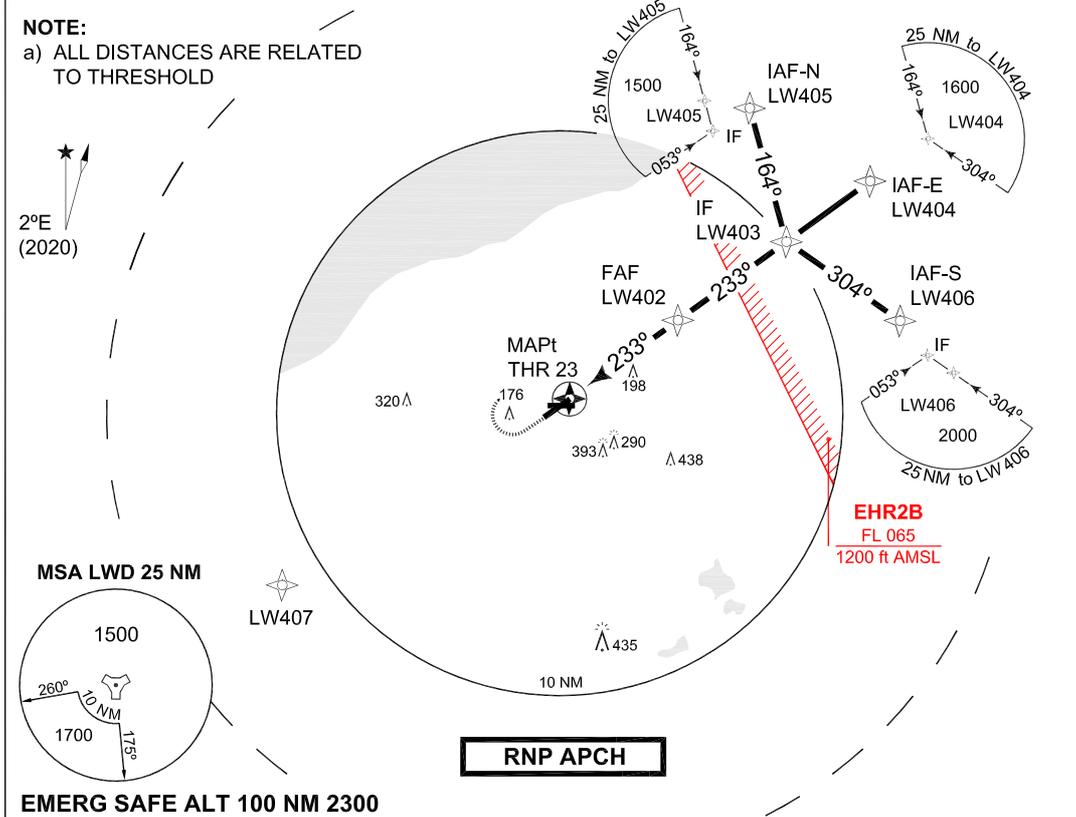
CHANGES: MSA

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



MISSED APPROACH
At MAPt climb to 1200 ft. Turn right inbound LW407 and climb to 3000 ft. At 3000 ft turn right inbound LW405.

THR ELEV 4	1	2	3	4	5	6	7	8	9	10	CAT I
MDA	1.72	450 (446)	6.1	720 (716)	1220 (1216)						

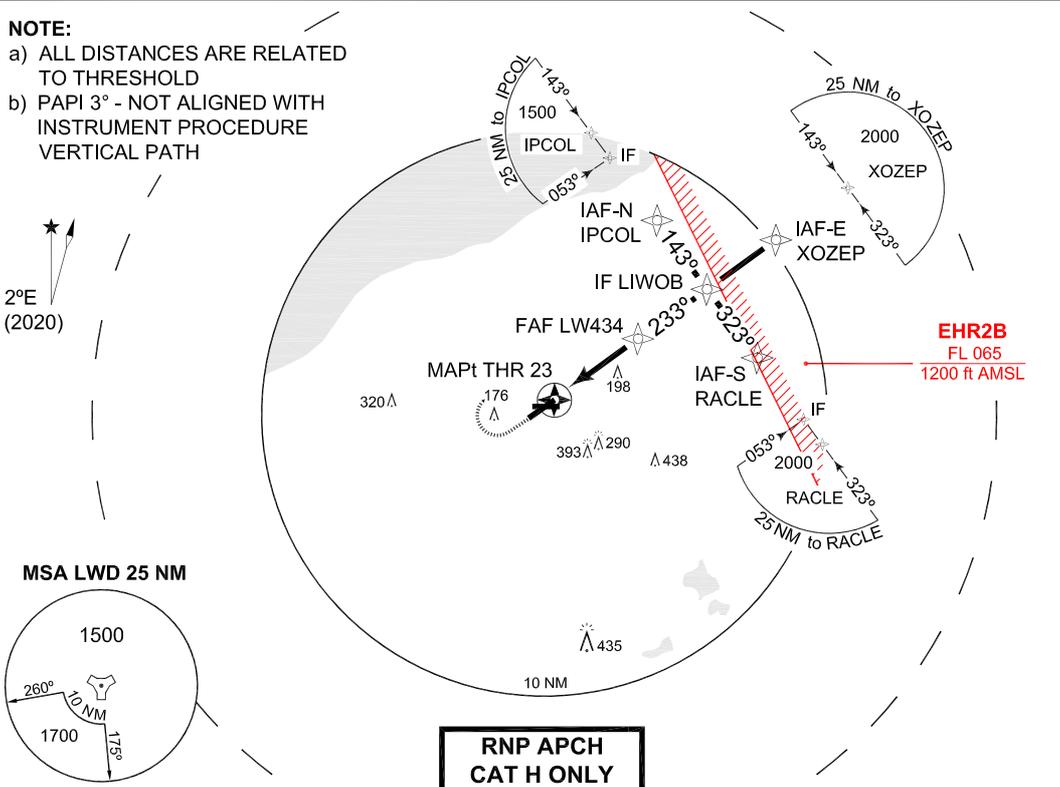
CATEGORY		A		B		C		D		
MIPS	DA(H) LPV	N.A.								
	DA(H) LNAV / VNAV	N.A.								
	MDA(H) LNAV	370 -1000 366 (400-1.0/1.7)								
IAF-N	LW405	53°24.36'N	005°57.71'E	FAF	LW402	53°17.34'N	005°54.42'E			
IAF-E	LW404	53°22.35'N	006°06.65'E	MAPt	THR23	53°13.88'N	005°46.04'E			
IAF-S	LW406	53°16.61'N	006°06.56'E	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)**

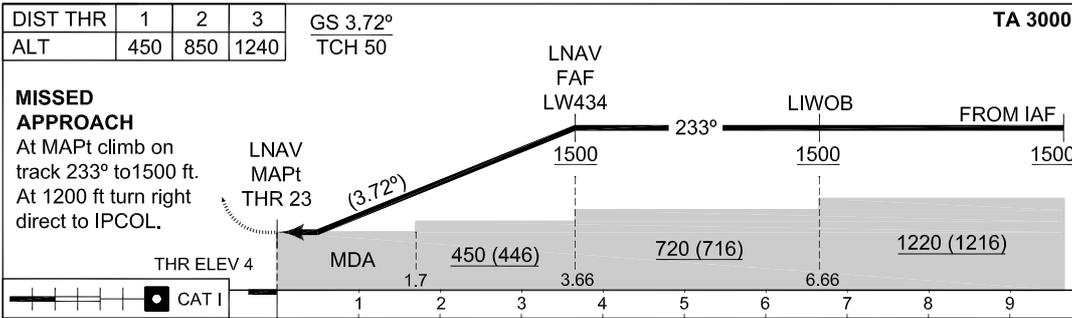
DUTCH MIL 259.250 128.355		RAPCON NORTH 284.475 132.030		LEEUWARDEN TWR 344.850 120.705		GND CTL 362.525		
EGNOS CHANNEL 92974 E23A	APP COURSE 233°	FAF ALT 1500 FT	Descent GR 6.5% / 3.72°	MDA 370	DA 204	THR ELEV 4	ALS 720 m	LDA 7863 FT

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

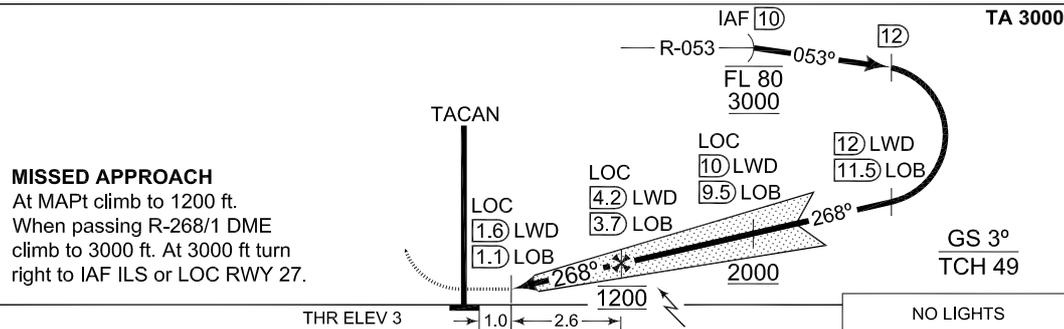
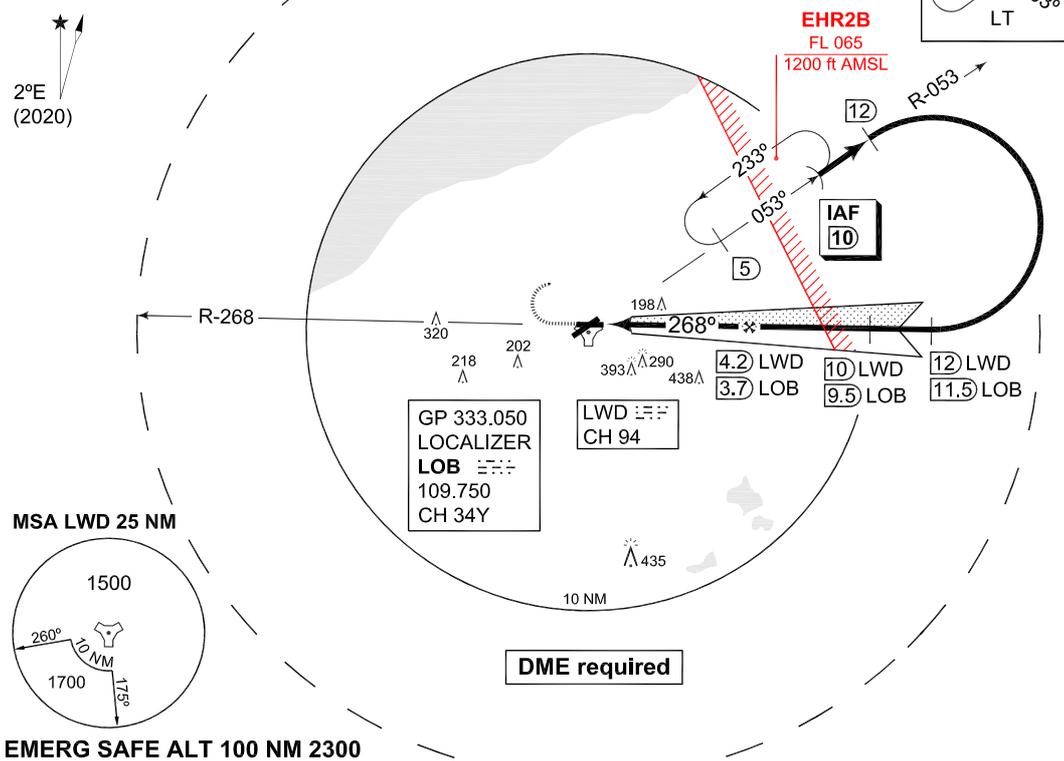
MIPS INSTRUMENT APPROACH CHART AD ELEV 4 **ILS or LOC RWY 27 LEEUWARDEN (EHLW)**

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



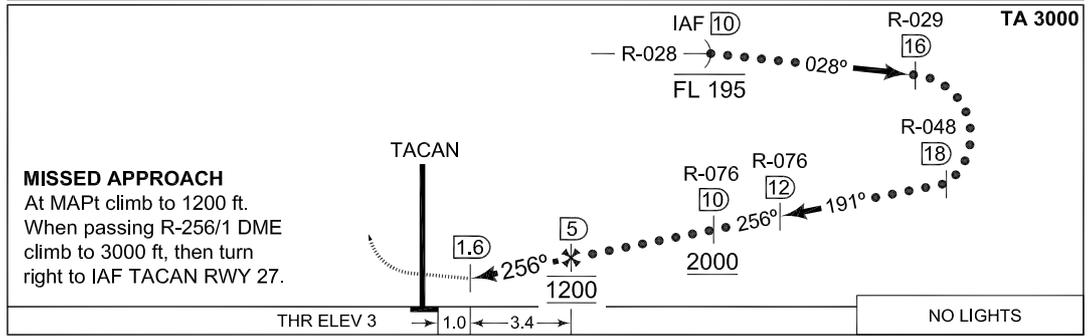
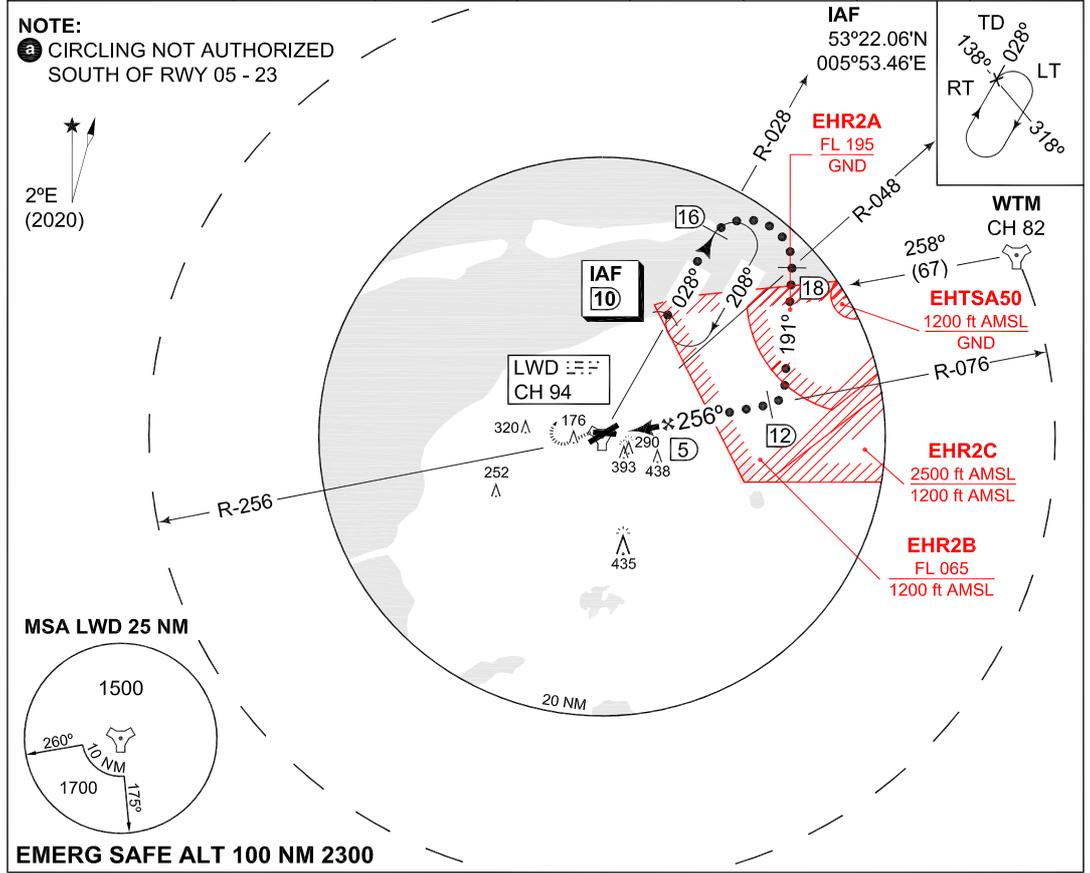
CATEGORY	A	B	C	D	E	H
MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1						
S-ILS 27	203-1600 200 (200-1.6/1.6)	211-1600 208 (300-1.6/1.6)	220-1600 217 (300-1.6/1.6)	230-1600 227 (300-1.6/1.6)	240-1600 237 (300-1.6/1.6)	203-800 200 (200-0.8/0.8)
S-LOC 27	360-1600 357 (400-1.6/1.6)			360-2000 357 (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.

CHANGES: MSA MIPS

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

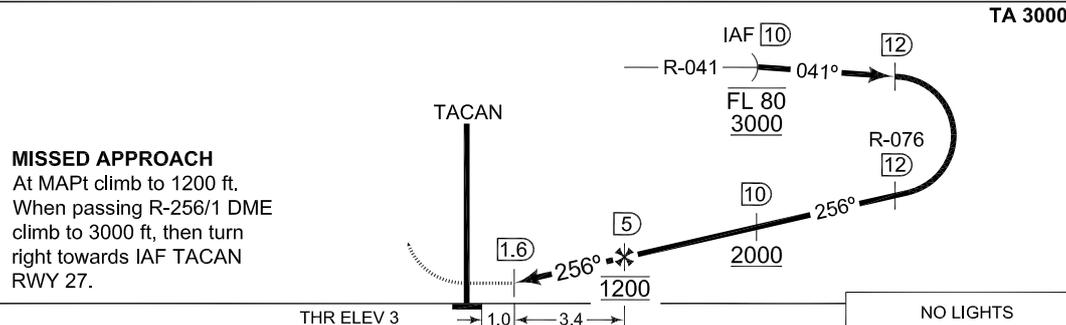
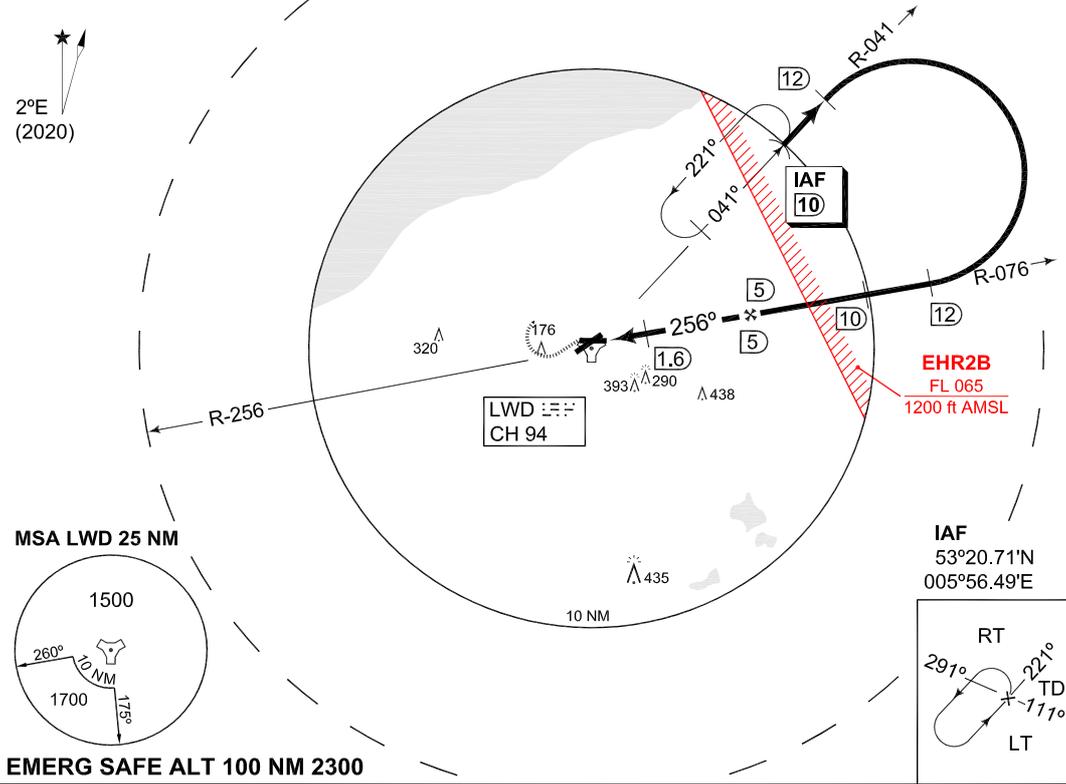
RNLAF 23 MAR 2023

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:

a CIRCLING NOT AUTHORIZED SOUTH OF RWY 05 - 23



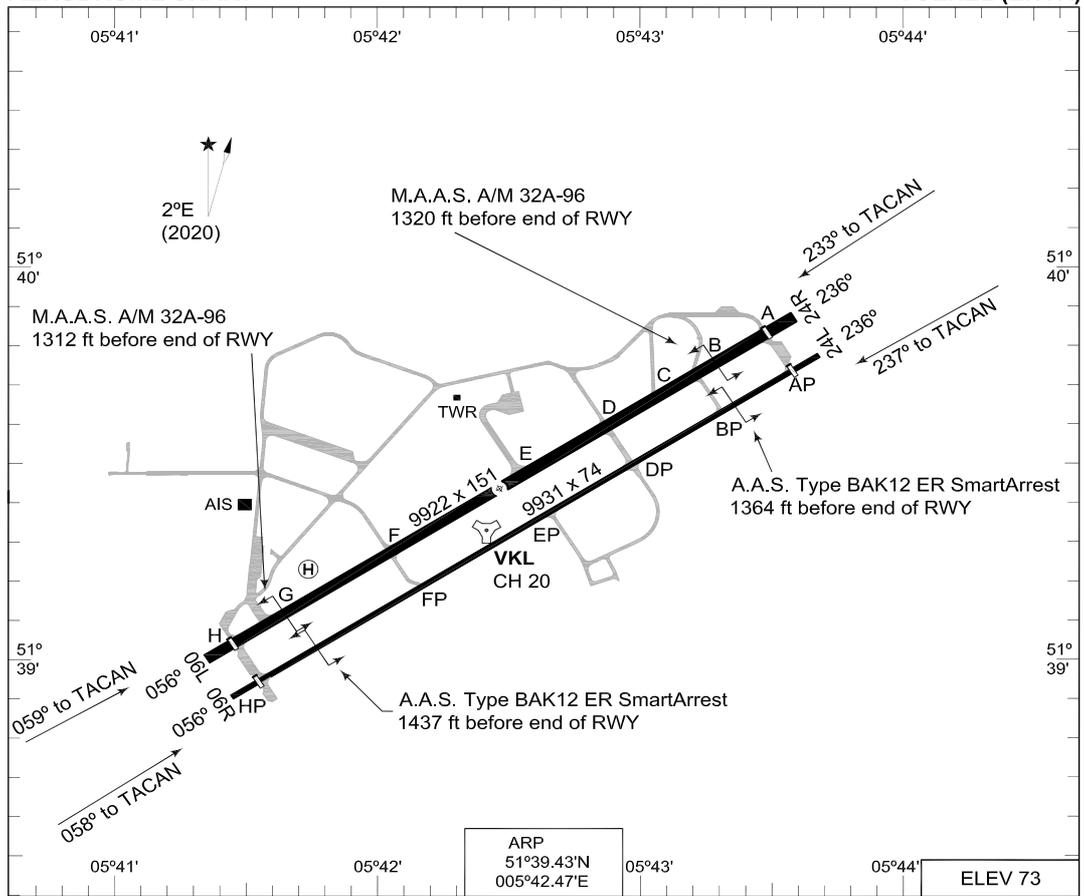
CATEGORY	A	B	C	D	E
MINIMA ACCORDING TO PANS-OPS; NOT ACCORDING TO APATC-1					
S-TACAN 27	390 -1600 387 (400-1.6/1.6)			390 -2000 387 (400-2.0/2.0)	
CIRCLING a	500 -1900 496 (500-1.9)	510 -2800 506 (600-2.8)	610 -3700 606 (700-3.7)	720 -4600 716 (800-4.6)	820 -6500 816 (900-6.5)

CHANGES: MSA

MIPS

RNLAF 23 MAR 2023

MIPS AERODROME CHART **VOLKEL (EHVK)**



ARP 51°39.43'N 005°42.47'E
ELEV 73

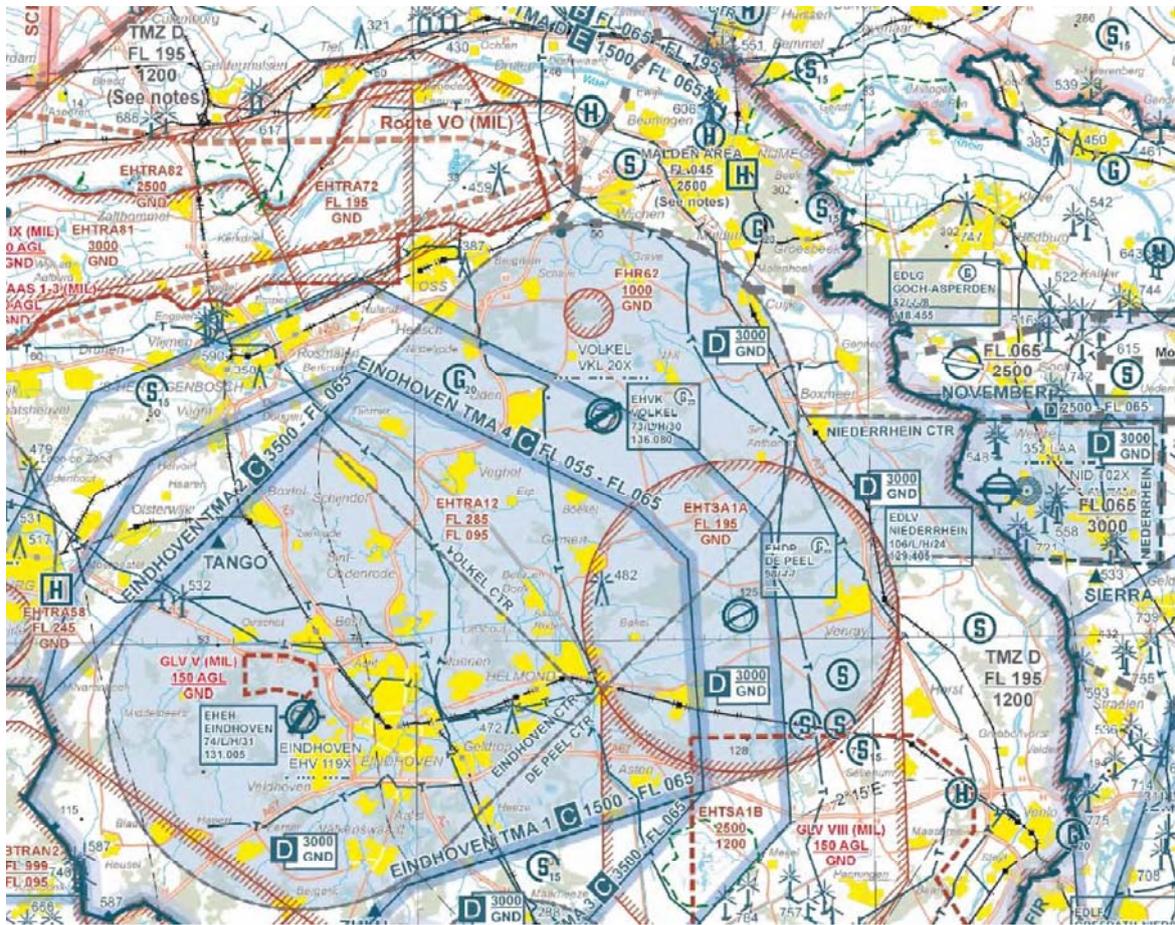
RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	THR ELEV	THR PSN
24R	30 R/B/W/T	9922	9922	9922	9498	3.0°	62	51°39.83'N 005°43.49'E
06L	30 R/B/W/T	9922	9922	9922	9500	3.0°	72	51°39.04'N 005°41.45'E
24L	27 R/B/W/T	9931	9931	9931	9487	3.0°	62	51°39.73'N 005°43.58'E
06R	27 R/B/W/T	9931	9931	9931	9485	3.0°	73	51°38.94'N 005°41.55'E

* SWY 24L PCN 16 R/B/W/T, SWY 06R 17 R/B/W/T
 VOLKEL TWR 291.100 136.080 (Ground Control) 386.775
 VOLKEL ARRIVAL 291.200
 RAPCON SOUTH 388.525 123.180

	PROC. CRITERIA	RWY	GS	TCH	OTCH	RPI	CAT	MINIMA CRITERIA	MINIMA
CHANGES: HELI SQUARE	MIPS	24R					AB	MIPS	500 -1100 438 (500-1.1/1.9)
							C		500 -1200 438 (500-1.2/2.0)
							DE		500 -1600 438 (500-1.6/2.4)
									500 -1500 438 (500-1.5/1.9)
	MIPS	24L					AB	MIPS	500 -1600 438 (500-1.6/2.0)
							C		500 -2000 438 (500-2.0/2.4)
							DE		430 -1100 358 (400-1.1/1.9)
									430 -1200 358 (400-1.2/1.9)
	MIPS	06L					AB	MIPS	430 -1200 358 (400-1.2/1.9)
							C		430 -1200 358 (400-1.2/2.0)
							DE		640 -1500 567 (600-1.5/1.9)
									640 -2000 567 (600-2.0/2.4)
	MIPS	06R					AB	MIPS	640 -2400 567 (600-2.4/2.8)
							C		640 -2800 567 (600-2.8/3.2)
							D		
							E		

RNLAF 23 MAR 2023

LOCAL MAP



Victor:	WDT R-329/8NM 51°33'47"N 004°13'55"E Most southern point of a forest on the Easterly border of the channel east of the village Oud Vossemeer. A small triangular cove marks the south point of the forest.
Romeo:	WDT R-033/8NM 51°33'27"N 004°27'26"E Four small lakes along the A17, west of Roosendaal, west of the industry park Borchwerf flyover nr 20 on the A17.
Echo:	WDT R-065/7,3NM 51°29'57"N 004°31'19"E Triangular shaped cove in the forest southwest of Rucphense heide

EHWO 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

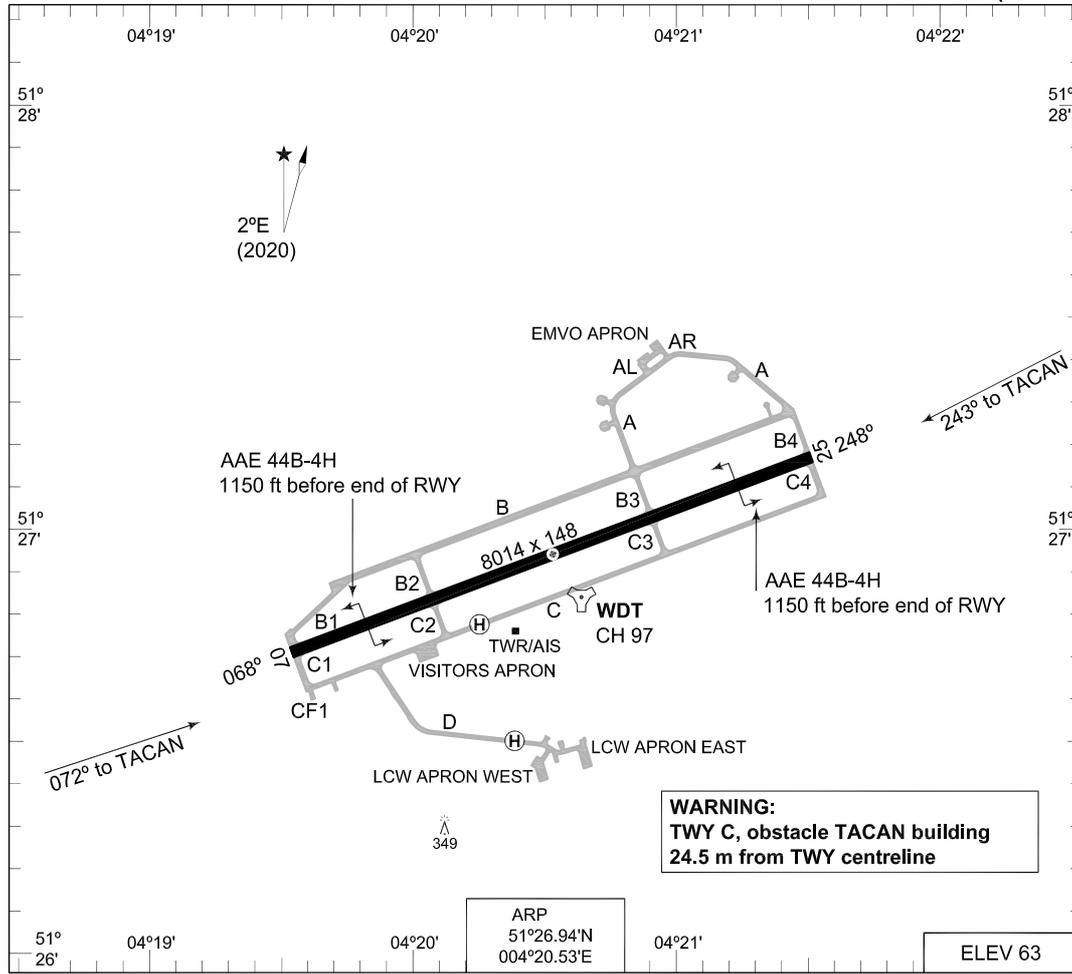
PPR 24 HRS: for Prior Permission Request contact:
Operations and Coordination Centre

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 2-12
Local map	EHWO AD 2-13
MVA chart	EHWO AD 2-14
Instrument departure chart WO1	EHWO AD 2-15
Instrument departure chart WO3	EHWO AD 2-16
Instrument approach chart ILS or LOC RWY 07	EHWO AD 2-17
Instrument approach chart HI-TACAN RWY 07	EHWO AD 2-18
Instrument approach chart TACAN RWY 07	EHWO AD 2-19
Instrument approach chart RPN RWY 07	EHWO AD 2-20
Instrument approach chart ILS or LOC RWY 25	EHWO AD 2-21
Instrument approach chart HI-TACAN RWY 25	EHWO AD 2-22
Instrument approach chart TACAN RWY 25	EHWO AD 2-23
Instrument approach chart RPN RWY 25	EHWO AD 2-24

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



ARP
51°26.94'N
004°20.53'E

ELEV 63

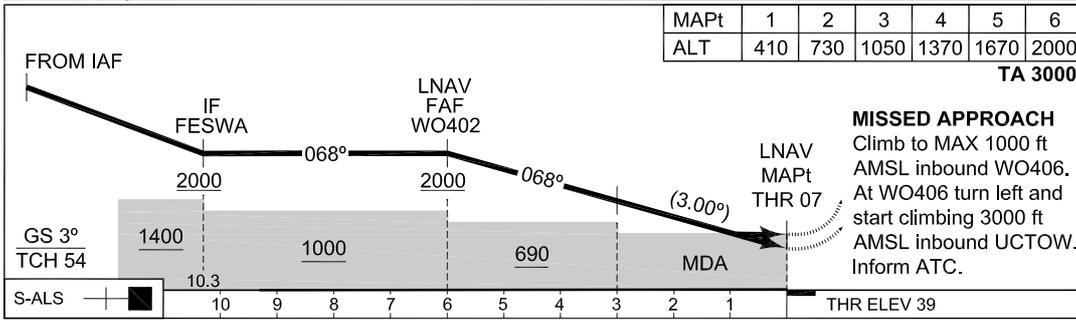
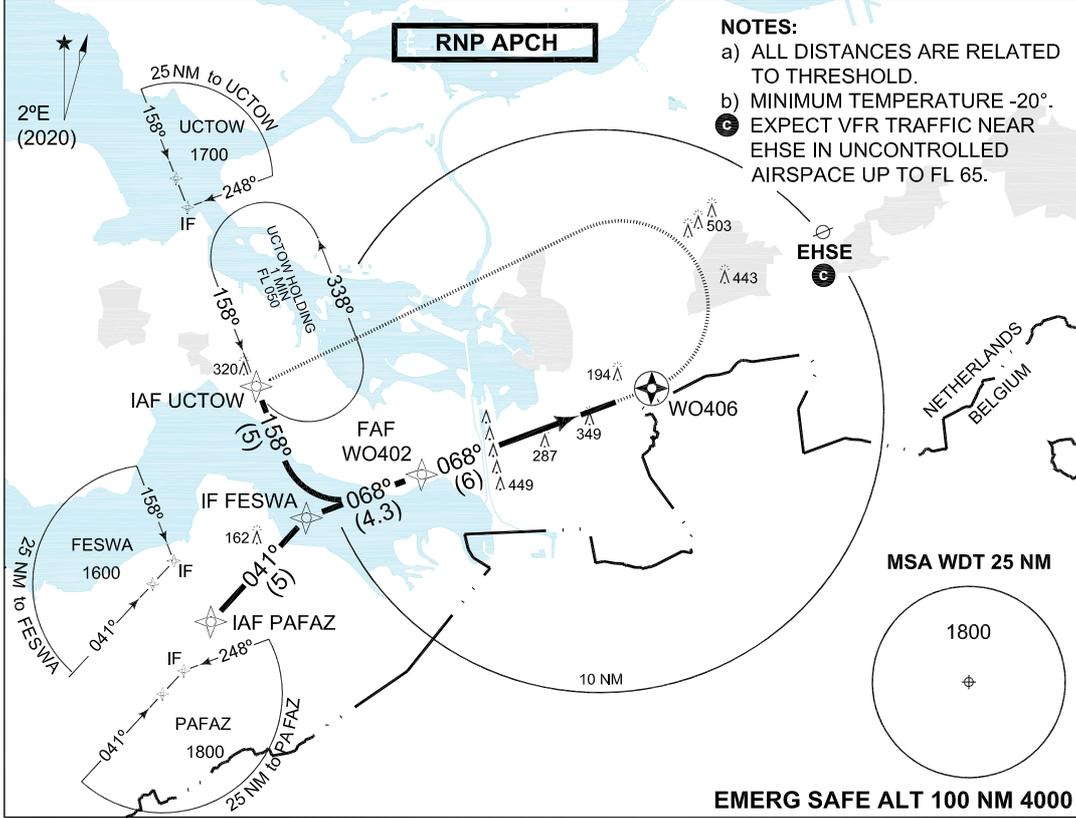
RWY	PCN	TORA	ASDA	TODA	LDA	PAPI	TDZE	THR PSN	
25	51 R/C/W/T	8014	8014	8014	8014	3.0°	63	51°27.17'N 004°21.51'E	
07	51 R/C/W/T	8014	8014	8014	8014	3.0°	39	51°26.71'N 004°19.54'E	
GROUND CONTROL				356.875	121.680				
WOENS DreCHT TWR				339.000	120.430				
RAPCON WEST				399.725	123.580				
WOENS DreCHT 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

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

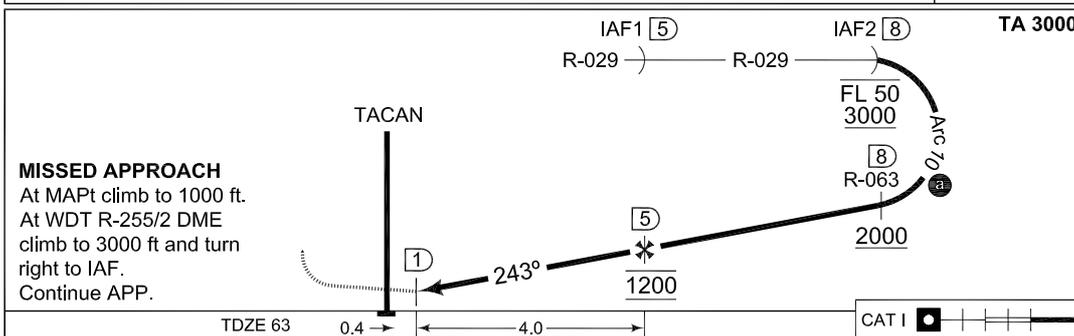
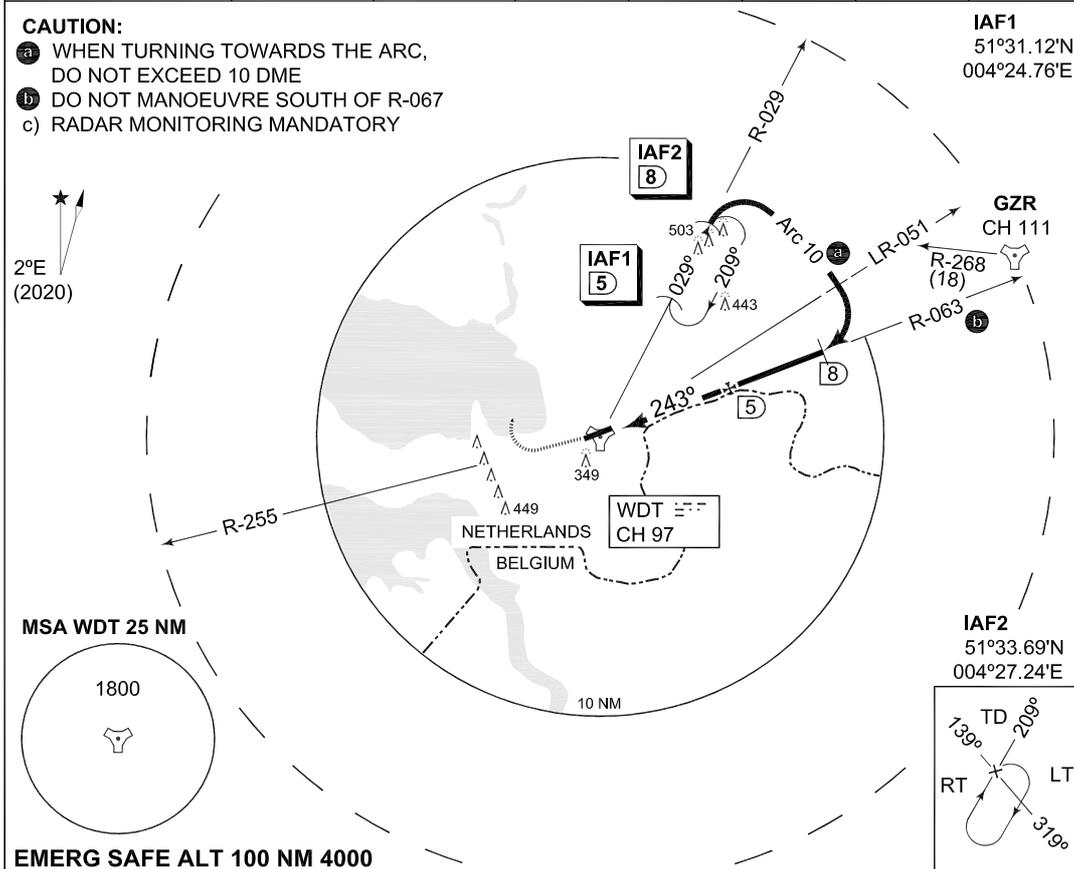
DUTCH MIL 336.325 125.930		RAPCON WEST 399.725 123.580		WOENS DreCHT TWR 339.000 120.430		GND CTL 356.875 121.680		ATIS*	
EGNOS CHANNEL 99205 E07A		APP COURSE 068°		FAF ALT 2000 FT		Descent GR 5.24% / 3.0°		MDA 600	
						DA SEE CAT		THR ELEV 39	
								ALS 420 m	
								LDA 8014 FT	



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 **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				

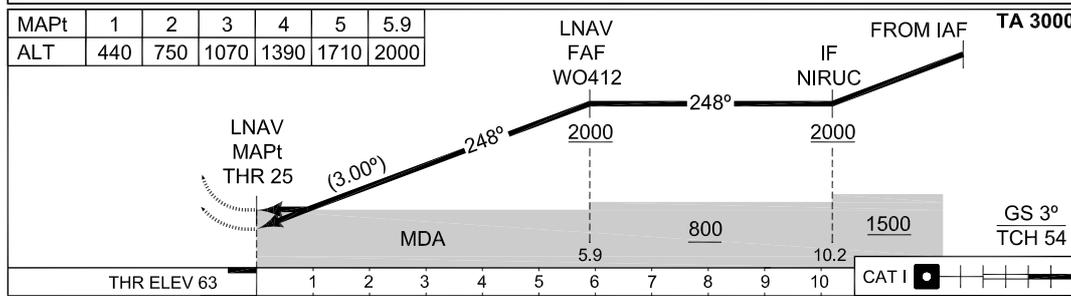
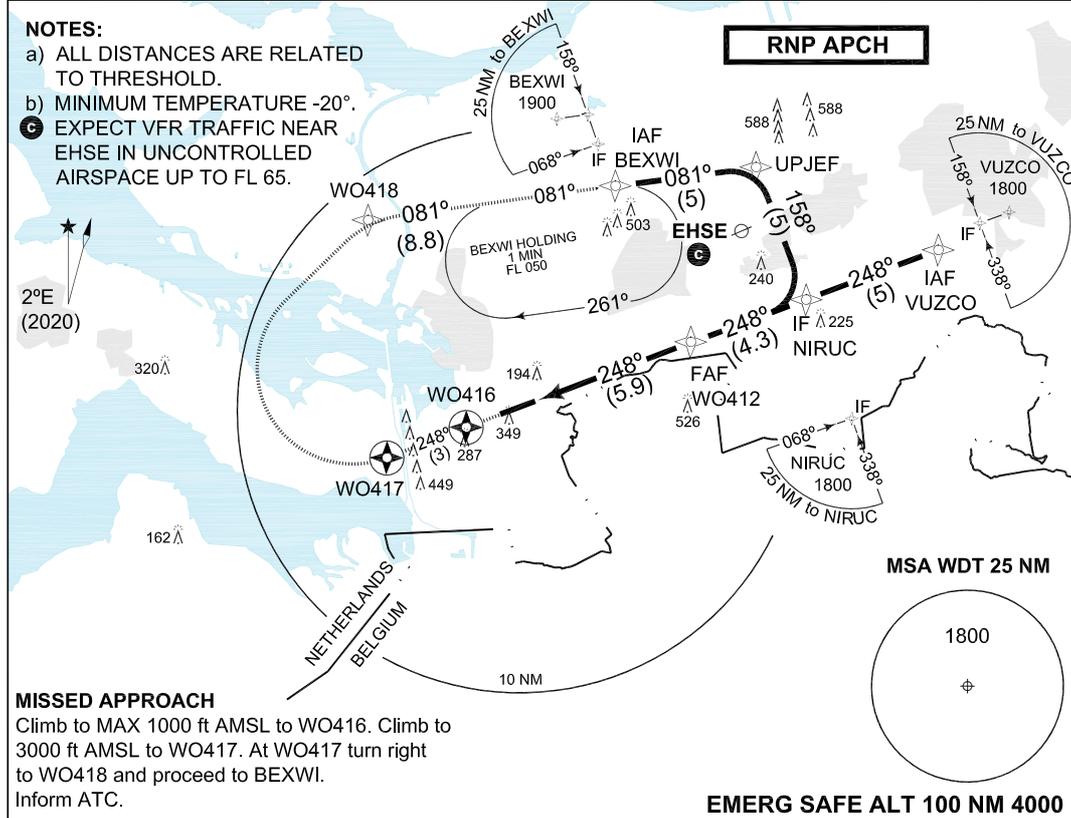
CHANGES: MSA

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