AIP

AERONAUTICAL INFORMATION PUBLICATION

Republic of Namibia

PART 2

AERODROME (AD)

PART 3 – AERODROMES (AD)

AD 0.

AD 0.1 PREFACE

1. Name of the Publishing Authority

The AIP is published by authority of the Namibia Civil Aviation Authority.

2. Applicable ICAO documents

The AIP is prepared in accordance with the Standards and Recommended Practices (SARPs) of Annex 15 to the Convention on International Civil Aviation and the Aeronautical Information Services Manual (ICAO Doc 8126) and the *Procedures for Air Navigation Services Aeronautical Information Management* (ICAO Doc 10066). Charts contained in the AIP are produced in accordance with Annex 4 to the Convention on International Civil Aviation and the Aeronautical Chart Manual (ICAO Doc 8697). Differences from ICAO Standards, Recommended Practices and Procedures are given in sub-section GEN 1.7.

3. The AIP structure and established regular amendment interval

3.1 The AIP Structure

3.1.1 The AIP forms part of the Aeronautical Information Product, details of which are given in sub-section GEN 3.1. The principal AIP structure is shown in graphic form on page GEN 0.1-3.

3.1.2 The AIP is made up of three Parts, General (GEN), En-route (ENR) and Aerodromes (AD), each divided into sections and sub-sections as applicable, containing various types of information subjects.

3.1.3 Part 3 – Aerodromes (AD)

Part 3 consists of four sections containing information as briefly described hereafter.

a) AD 0 - Preface; Record of AIP Amendments; Record of AIP Supplements; Checklist of AIP pages; List of hand amendments to the AIP; and the Table of Contents to Part 3.

b) AD 1. Aerodromes/Heliports - Introduction - Aerodrome/heliport availability; Rescue and firefighting services and Snow plan; Index to aerodromes and heliports; and Grouping of aerodromes/heliports.

c) AD 2. Aerodromes - Detailed information about aerodromes, including helicopter landing areas, if located at the aerodrome, listed under 24 sub-sections.

d) AD 3. Heliports - Detailed information about heliports (not located at aerodromes), listed under 23 sub-sections.

3.2 Regular amendment interval

3.2.1 Permanent changes to the AIP shall be published as AIP Amendment.

3.2.2 Amendments to AIP shall be issued every 4 months at the following pre-determined months:

a) 15 March
b) 15 July
c) 15 November

3.2.3 When an AIP AMDT will not be published on the established publication date, a NIL notification shall be originated and distribution by means of the monthly printed Plain Language Summary of NOTAM in force (NIF).

4. Service to contact in case of detected AIP errors or omissions

In the compilation of the AIP, care has been taken to ensure that the information contained therein is accurate and complete. Any errors and omissions which may nevertheless be detected, as well as any correspondence concerning the Aeronautical Information Product, should be referred to:

Namibia Civil Aviation Authority
Aeronautical Information Service Centre
Private Bag 12003
Ausspannplatz
Windhoek
TEL: +264 61 702082
Email: aim-aip@ncaa.com.na

AD 0.2 RECORD OF AIP AMENDMENTS

AIP AMENDMENT			
NR/Year	Publication date	Date inserted	Inserted by

AIRAC AIP AMENDMENT			
NR/Year	Publication date	Effective date	Inserted by
A01/2019	31-01-2019	28-03-2019	NCAA
A02/2019	23-05-2019	18-07-2019	NCAA
A03/2019	24-10-2019	05-12-2019	NCAA
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A02/2020	12-03-2020	23-04-2020	NCAA
A03/2020	27-08-2020	08-10-2020	NCAA
A02/2021	15-07-2021	09-09-2021	NCAA
A03/2021	07-10-2021	02-12-2021	NCAA
A01/2022	24-03-2022	19-05-2022	NCAA

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AD 0.3 RECORD OF AIP SUPPLEMENTS

NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record

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AD 3. HELISTOPS……NIL

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AD 1. AERODROMES/HELIPORTS - INTRODUCTION

AD 1.1 AERODROME/HELIPORT AVAILABILITY

1. General conditions under which aerodromes/heliports and associated facilities are available for use

i) General conditions

This section contains information on aerodromes situated within the Republic of Namibia are:

a) Available for use in international aircraft operations.

b) Ports of entry.

c) Aerodromes for domestic use.

d) Private aerodromes

These aerodromes are tabulated in AD 1.3 and classified in AD 1.4.

Aerodromes that have been certified (Licensed) are listed in AD 1.5

The administration of an aerodrome is the responsibility of the license holder or administrator. The names, postal and telegraphic addresses of the license holders or administrators are listed in AD 2.

Operators should ensure that an aerodrome is suitable and available for the intended use before planning on using such aerodrome.

ii) Responsibilities of operators/pilots when selecting an aerodrome/heliport for intended use

1) Operators should obtain the relevant permissions required, where applicable, before operating into an aerodrome

2) Except in a case of emergency, a pilot-in-command shall ensure that where an aerodrome is

i) licensed for private use, prior permission from the owner/operator of the aerodrome has been obtained before planning to use such an aerodrome, or

ii) operated as an unlicensed aerodrome, that the aerodrome meets the requirements for the type of operation being flown in accordance with applicable regulations and, where required, has obtained prior permission from the owner/operator of the aerodrome to make use of such aerodrome. It should be noted that unlicensed aerodromes may not meet the safety standards stipulated in NAMCAR Part 139 and operators should take due consideration of such when planning to use such an aerodrome.

3) The Pilot-in-command is expected to obtain information on the condition and serviceability of the aerodrome, landing area, approach aids and applicable ground lighting as required prior to planning to make use of such an aerodrome.

4) The pilot-in-command of a particular aircraft may only make use of an aerodrome provided due account has been taken of

a) the meteorological conditions pertaining at the time or expected to occur at the time of use, and

b) the aircraft's performance, design, PCN and other such aspects are consistent with the physical characteristics of the aerodrome and its facilities, and

c) the condition of the aerodrome's manoeuvring area and facilities, and that operations on such will not endanger safety of the aircraft or its crew and passengers.

2. Applicable ICAO documents

The standards and recommended practices of ICAO, Annexes 9, 14 and 17 are applied without differences.

3. Civil use of military air bases

Prior permission for the use of military aerodromes must be obtained from:

Chief of the Defence Force
Private Bag 13307
Windhoek

4. CAT II/III operations at aerodromes

Only CAT I available at Hosea Kutako INTL Airport.

5. Friction measuring device used and friction level below which the runway is declared slippery when it is wet

Not used at this stage.

6. Other information

Pilots and operators should note that Kunene River Mouth airstrip is strictly reserved for Northern Namibia Development Company PTY Ltd aircrafts only or if prior written clearance has been provided by Northern Namibia Development Company PTY Ltd. Note that the RWY will be closed with barricade for security purposes.
Aircraft overflying the airstrip should consider the height restriction of 1000M AGL.

AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN

1. Rescue and fire fighting services

1.1 Adequate rescue and fire fighting vehicles, equipment and personnel have been provided at most of the aerodromes available for use by international commercial air transport. At the other major aerodromes the rescue and fire fighting equipment provided is usually suitable for the operating requirements.

1.2 The scale of protection has been determined in accordance with the guidance given in Attachment C to Annex 14. Details concerning the equipment available at the aerodromes is given on the relevant page for each aerodrome.

1.3 Each individual service is categorized according to the table shown below. Temporary changes will be published by NOTAM.

Rescue and fire fighting services	
Aerodrome category	Amount of water in litres for production of performance level A foam
1	350
-	-
3	1 800
4	3 600
5	8 100
6	11 800
7	18 200
8	27 300
9	36 400
10	48 200

2. Snow plan

Nil.

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AD 1.3 INDEX TO AERODROMES AND HELIPORTS

Notes:
(1) The location indicators marked with an asterisk (*) cannot be used in the address component of the messages.
(2) The aerodromes marked with# are not equipped for IFR traffic but said traffic can execute a VMC descent or cancel IFR.

Aerodrome/heliport name Location indicator		Type of traffic permitted to use the aerodrome/heliport			Reference to AP Section and Remarks
		International - National (INTL-NTL)	IFR-VFR	S=Scheduled NS=Non-scheduled P=Private	
1		2	3	4	5
ARANDIS/Arandis	FYAR*	NTL	IFR - VFR#	NS - P	AD 2 - FYAR
GOBABIS /Gobabis	FYGB*	INTL-NTL	VFR	NS - P	AD 2 - FYGB
GROOTFONTEIN/ Grootfontein	FYGF	INTL-NTL	IFR-VFR	S - NS – P	AD 2 – FYGF
KATIMA MULILO/Mpacha	FYKM	INTL-NTL	IFR-VFR	S - NS - P	AD 2 - FYKM
KEETMANSHOOP/ Keetmanshoop	FYKT*	INTL-NTL	IFR-VFR	S - NS - P	AD 2 - FYKT
LUDERITZ/Luderitz	FYLZ	INTL-NTL	IFR - VFR #	S - NS - P	AD 2 - FYLZ
MARIENTAL/Mariental	FYML*	NTL	VFR	NS - P	AD 2 - FYML
MOKUTI LODGE/Mokuti Lodge	FYMO*	NTL	IFR - VFR #	NS - P	AD 2 - FYMO
ONDANGWA/Ondangwa	FYOA	INTL-NTL	IFR-VFR	S - NS - P	AD 2 - FYOA
ORANJEMUND/Oranjemund	FYOG*	INTL-NTL	IFR - VFR #	NS - P	AD 2 - FYOG
RUNDU/Rundu	FYRU*	INTL-NTL	IFR - VFR #	NS - P	AD 2 - FYRU
SWAKOPMUND/ Swakopmund	FYSM*	NTL	IFR - VFR #	S - NS - P	AD 2 - FYSM
WALVIS BAY/Walvis Bay	FYWB	INTL-NTL	IFR-VFR	S - NS - P	AD 2 - FYWB

Aerodrome/heliport name Location indicator		Type of traffic permitted to use the aerodrome/heliport			Reference to AP Section and Remarks
		International - National (INTL-NTL)	IFR-VFR	S=Scheduled NS=Non-scheduled P=Private	
1		2	3	4	5
WINDHOEK/Eros	FYWE	INTL-NTL	IFR - VFR	NS - P	AD 2 - FYWE
Hosea Kutako International Airport, Windhoek	FYWH	INTL-NTL	IFR-VFR	S - NS - P	AD 2 - FYWH

AERODROMES AND HELIPORTS INDEX - CHART

To be developed.

AD 1.4 GROUPING OF AERODROMES/HELIPORTS

The criteria applied by Namibia in grouping aerodromes/heliports for the provision of information in this AIP are as follows:

1. Primary/major international aerodrome/heliport

The aerodrome/heliport of entry and departure for international air traffic, where all formalities concerning customs, immigration, health, animal and plant quarantine and similar procedures are carried out and where air traffic services are available on a regular basis.

Walvis Bay

Hosea Kutako International Airport

2. Secondary/other international aerodrome/heliport

Another aerodrome/heliport available for the entry or departure of international air traffic, where all formalities concerning customs, immigration, health and similar and air traffic services are made available, on a restricted basis, to flights with prior approval only.

Eros

Gobabis

Grootfontein (Military)

Katima Mulilo

Keetmanshoop

Luderitz

Ondangwa

Oranjemund

Rundu

3. National aerodrome/heliport

An aerodrome/heliport available only for domestic air traffic, including those military aerodromes/heliports where civil air traffic is allowed under certain conditions.

Arandis

Mariental

Mokuti Lodge

Scorpion Mine

Swakopmund

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AD 1.5 STATUS OF CERTIFICATION OF AERODROMES

NIL INFO

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AD 2. AERODROMES

FYAR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYAR - Arandis Aerodrome

FYAR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP coordinates and site at AP*	222800S 0145900E
2.	*Direction and distance from (city)*	E 55 KM from Swakopmund
3.	*Elevation/reference temperature*	1 905 FT
4.	*MAG VAR/annual change*	13° W (2016)/ 0.10° decreasing
5.	*AD administration, address, telephone, telefax, telex, AFS*	Arandis Airport (Pty)Ltd PO Box 1228 Walvis Bay Tel: (064) 203 951 Fax: (064) 203 984 Cell: 081 241 1307 E-mail: jannien@sec.com.na Telex: No facility AFS: No facility
6.	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
7.	*Remarks*	Private aerodrome. Prior permission required from the owner Arandis Aerodrome is not a state/parastatal-owned or operated aerodrome but is owned and operated by Arandis Airport (Pty) Ltd, which is a private entity.

FYAR AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	07:00 – 14:00 in Summer 06:00 – 13:00 in Winter
2.	*Customs and immigration*	Nil facilities
3.	*Health and sanitation*	Nil facilities
4.	*AIS briefing office*	Nil facilities
5.	*ATS reporting office (ARO)*	Nil facilities
6.	*MET briefing office*	Nil facilities
7.	*ATS*	Nil facilities
8.	*Fuelling*	Nil facilities
9.	*Handling*	Nil facilities
10.	*Security*	Nil facilities
11.	*De-icing*	Nil facilities

12.	*Remarks*	Nil

FYAR AD 2.4 HANDLING SERVICES AND FACILITIES

Nil facilities.

FYAR AD 2.5 PASSENGER FACILITIES

Nil facilities.

FYAR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	Not determined
2.	*Rescue equipment*	Nil facilities
3.	*Capability for removal of disabled aircraft*	Nil facilities
4.	*Remarks*	Nil

FYAR AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities.

FYAR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Asphalt Strength: LCN 25
2.	*Taxiway width, surface and strength*	Width: 20 Surface: Asphalt Strength: LCN 25
3.	*ACL location and elevation*	Location: Nil info Elevation: 1905’
4.	*VOR/INS checkpoints*	Nil facilities
5.	*Remarks*	Nil

FYAR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil facilities
2.	*RWY and TWY markings and LGT*	RWY designators, THR, centre line
3.	*Stop bars*	Nil facilities
4.	*Remarks*	Nil

FYAR AD 2.10 AERODROME OBSTACLES

Area 2					
OBST ID/ Designation	*OBST Type*	*OBST position*	*ELEV/HGT FT*	*Markings / Type, Colour*	*Remarks*
a	*b*	*c*	*d*	*e*	*f*
Wireless high Mast 1	Wireless high Mast	222619.43S 0150050.22E	634M	Nil info	Distance and bearing: 3.53 km & 48.01° Aircaraft must remain well clear of mining area
Wireless high Mast 2	Wireless high Mast	222524.42S 0150318.55E	652M	Nil info	Distance and Bearing:7.97 km & 59.31° Aircraft must remain well clear of mining area
Area 3					
OBST ID/ Designation	*OBST Type*	*OBST position*	*ELEV/HGT FT*	*Markings / Type, Colour*	*Remarks*
a	*b*	*c*	*d*	*e*	*f*
NIL	NIL	NIL	NIL	NIL	NIL

FYAR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

Nil facilities.

FYAR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MAG BRG	Dimensions of RWY (M)	Strength (LCN) and surface of RWY and SWY	THR Co-ordinates	THR Elevation and Highest Elevation of TDZ of Precision APP RWY
1	2	3	4	5	6
10	100° MAG	1920 x 20	LCN 25 Asphalt	Nil info	THR 1827 FT
28	280° MAG	1920 x 20	LCN 25 Asphalt	Nil info	THR 1905 FT

Slope of RWY-SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strip Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
+1,2%	62 M	Nil info	Nil info	Nil info	Nil
-1,2%	62 M	Nil info	Nil info	Nil info	Nil

FYAR AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
10	Nil info	1920	Nil info	Nil info	Nil
28	Nil info	1920	Nil info	Nil info	Nil

FYAR AD 2.14 APPROACH AND RUNWAY LIGHTING

Nil information available.

FYAR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	*ABN/IBN location, characteristics and hours of operation*	Nil facilities
2.	*LDI location and LGT* *Anemometer location and LGT*	Nil facilities
3.	*TWY edge and centre line lighting*	Nil facilities
4.	*Secondary power supply/switch-over time*	Nil facilities
5.	*Remarks*	Other than lighting on apron, RWY lights are available by prior arrangement. TEL NR 085 544 2004. Permanent parachute drop zone established, occasional skydiving activity takes place. Pilots involved in parachuting activities will broadcast intentions on 123 MHz. Occasional radio controlled aircraft takes place, operators obliged to broadcast their activity on 123.5 MHz.

FYAR AD 2.16 HELICOPTER LANDING AREA

Nil facilities.

FYAR AD 2.17 ATS AIRSPACE

Nil ATS airspace

FYAR AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
Unmanned	Arandis TFC	123.5 MHZ	Unmanned	Nil

FYAR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Nil facilities

FYAR AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

TPI. RWY 10 - left, RWY 28 right.

2. Taxiing to and from stands

Nil INFO

3. Parking area for small aircraft (general aviation)

Limited parking available – by prior arrangement

4. Parking area for helicopters

Nil INFO

5. Apron - Taxiing during winter conditions

Nil INFO

6. Taxiing - Limitations

Nil INFO

7. School and training flights - Technical test flights - Use of runways

By prior arrangement with prior approval.

8. Helicopter traffic - Limitation

Nil INFO

9. Removal of disabled aircraft from runways

Nil INFO

FYAR AD 2.21 NOISE ABATEMENT PROCEDURES

Nil procedures.

FYAR AD 2.22 FLIGHT PROCEDURES

Nil procedures.

FYAR AD 2.23 ADDITIONAL INFORMATION

Permanent parachute drop zone established, occasional Skydiving Activities taking place. Pilots involved in parachuting activities will broadcast intentions on 123.5 MHZ.

Occasional radio controlled aircraft takes place. Operators obliged to broadcast their activity on FREQ 123.5 MHZ

FYAR AD 2.24 CHARTS RELATED TO ARANDIS

Nil charts available for Arandis Aerodrome.

AD 2. AERODROMES

FYGB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYGB - Gobabis Aerodrome

FYGB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP coordinates and site at AP*	223017S 0185929E
2.	*Direction and distance from (city)*	S 3 NM from Gobabis
3.	*Elevation/reference temperature*	4 729 FT
4.	*MAG VAR/annual change*	12° W (2016)/ 0.07° decreasing
5.	*AD administration, address, telephone, telefax, telex, AFS*	CHF: DOT Namibia PB 12003 Ausspannplatz Namibia Tel: (061) 239850 Telefax: (061) 238884/5 Telex: 50908-811/812 AFS: FYHQYACC
6.	*Types of traffic permitted (IFR/VFR)*	VFR
7.	*Remarks*	Public aerodrome, designated port of entry/exit

FYGB AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	HJ
2.	*Customs and immigration*	Nil facilities
3.	*Health and sanitation*	Nil facilities
4.	*AIS briefing office*	Nil facilities
5.	*ATS reporting office (ARO)*	Nil facilities
6.	*MET briefing office*	Nil facilities
7.	*ATS*	Nil facilities
8.	*Fuelling*	0800-1700 (LOCAL)
9.	*Handling*	Nil facilities
10.	*Security*	Nil facilities
11.	*De-icing*	Nil facilities
12.	*Remarks*	Nil

FYGB AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	Nil facilities
2.	*Fuel/oil types*	AVGAS D100
3.	*Fuelling facilities/capacity*	Sold in drums
4.	*De-icing facilities*	Nil facilities
5.	*Hangar space for visiting aircraft*	Nil facilities
6.	*Repair facilities for visiting aircraft*	Nil facilities
7.	*Remarks*	Supplier BP Telephone: (062) 562818 (work) Fax: (062) 562975

FYGB AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	In town
2.	*Restaurants*	In town
3.	*Transportation*	Nil services
4.	*Medical facilities*	Hospital in town
5.	*Bank and post office*	In town
6.	*Tourist office*	Nil facilities
7.	*Remarks*	Nil

FYGB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

Nil facilities available.

FYGB AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYGB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Gravel Strength: Nil available
2.	*Taxiway width, surface and strength*	Nil taxiways
3.	*ACL location and elevation*	Nil information
4.	*VOR/INS checkpoints*	Nil facilities
5.	*Remarks*	Nil

FYGB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil facilities
2.	*RWY and TWY markings and LGT*	RWY designators
3.	*Stop bars*	Nil facilities
4.	*Remarks*	Nil

FYGB AP 2.10 AERODROME OBSTACLES

In Approach/TKOF areas			In circling areas and at AP		Remarks
1			2		3
RWY/Area affected	Obstacle Type Elevation Markings/ LGT	Co-ordinates	Obstacle type Elevation Markings/ LGT	Co-ordinates	
a	b	c	a	b	
Nil information available					Radio mast at 2227.24S 01858.60E ; Height 98 feet; Site Elevation 4725 feet ; Top of mast 4823 feet AMSL. Day and night markings.

FYGB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Nil facilities
2.	*Hours of service* *MET office outside hours*	Nil facilities
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek
4.	*Type of landing forecast* *Interval of issuance*	Nil facilities
5.	*Briefing/consultation provided*	Nil facilities
6.	*Flight documentation* *Language(s) used*	Nil facilities
7.	*Charts and other information available for briefing or consultation*	Nil facilities
8.	*Supplementary equipment available for providing information*	Nil facilities
9.	*ATS units provided with information*	Nil facilities
10.	*Additional information (limitation of service, etc.)*	Nil

Mean daily maximum and minimum temperatures (°C) for each month of the year												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Max	31.8	30.3	29.0	27.2	24.6	21.9	22.2	25.0	28.8	31.1	31.6	32.4
Min	17.4	16.6	15.1	11.6	6.3	3.1	2.5	4.6	8.8	12.9	15.2	17.0
Relative and absolute humidity at approximately the times of MAX (a) and MNM (b) temperatures												
Rel(a)	60	68	73	72	65	66	61	49	40	40	45	51
% (b)	31	37	36	33	26	26	24	18	17	19	24	26

FYGB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MAG BRG	Dimensions of RWY (M)	Strength (LCN) and surface of RWY and SWY	THR Co-ordinates	THR Elevation and Highest Elevation of TDZ of Precision APP RWY
1	2	3	4	5	6
07	070° MAG	2260 x 30	30 GRAV	Nil information available	Nil information available
25	250° MAG	2260 x 30	30 GRAV	Nil information available	Nil information available
11	110° MAG	1600 x 30	Nil information available	Nil information available	Nil information available
29	290° MAG	1600 x 30	Nil information available	Nil information available	Nil information available

Slope of RWY-SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strip Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
Nil information available	Nil information available	Nil information available	Nil information available	Nil information available	Nil

FYGB AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
07	Nil information available	2260	Nil information available	Nil information available	
25	Nil information available	2260	Nil information available	Nil information available	
11	Nil information available	1600	Nil information available	Nil information available	
29	Nil information available	1600	Nil information available	Nil information available	Nil

FYGB AD 2.14 APPROACH AND RUNWAY LIGHTING

Nil facilities available.

FYGB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

Nil facilities available.

FYGB AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYGB AD 2.17 ATS AIRSPACE

Nil ATS airspace.

FYGB AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
Unmanned	Gobabis Traffic	124.8 MHZ	HJ	Nil

FYGB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Nil facilities available.

FYGB AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

All crew of an aircraft landing at FYGB AD will be required to complete a general declaration for aircraft. A form will be available at the gate.

2. Taxiing to and from stands

Nil limits.

3. Parking area for small aircraft (general aviation)

On apron.

4. Parking area for helicopters

Nil limits.

5. Apron - Taxiing during winter conditions

Nil limits.

6. Taxiing - Limitations

Nil limits.

7. School and training flights - Technical test flights - Use of runways

Nil training.

8. Helicopter traffic - Limitation

Nil limits.

9. Removal of disabled aircraft from runways

When an aircraft is wrecked on a runway, it is the duty of the owner or user of such aircraft to have it removed, after permission was obtained by the Executive Director of Namibia Civil Aviation Authority. If a wrecked aircraft is not removed from the runway by the owner or user, the aircraft will be removed by the appropriate aerodrome authority at the owner's or user's expense.

9. Removal of disabled aircraft from runways

When an aircraft is wrecked on a runway, it is the duty of the owner or user of such aircraft to have it removed, after permission was obtained by the Executive Director: Namibia Civil Aviation Authority. If a wrecked aircraft is not removed from the runway by the owner or user, the aircraft will be removed by the appropriate aerodrome authority at the owner's or user's expense.

FYGB AD 2.21 NOISE ABATEMENT PROCEDURES

Nil procedures.

FYGB AD 2.22 FLIGHT PROCEDURES

Nil procedures.

FYGB AD 2.23 ADDITIONAL INFORMATION

Nil

FYGB AD 2.24 CHARTS RELATED TO GOBABIS

Nil charts available for Gobabis Aerodrome.

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AD 2. AERODROMES

FYGF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYGF - Grootfontein Aerodrome

FYGF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP coordinates and site at AP*	193600S 0180800E
2.	*Direction and distance from (city)*	SSE 1.5 NM from Grootfontein
3.	*Elevation/reference temperature*	4 636 FT
4.	*MAG VAR/annual change*	9° W (2016)
5.	*AD administration, address, telephone, telefax, telex, AFS*	Namibia Defence Force Airbase Commander Namibian Air Force Tel: (067) 2491218 ATC Tel: (067) 2491342 FAX ATC: (067) 242542 AFS: FYHQYACC
6.	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
7.	*Remarks*	1. Military aerodrome 2. FPL to be forwarded to Grootfontein ATC two hours before departures

FYGF AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	Nil facilities
2.	*Customs and immigration*	O/R Tel: (067) 243328 (office)
3.	*Health and sanitation*	Nil facilities
4.	*AIS briefing office*	Nil facilities
5.	*ATS reporting office (ARO)*	Nil facilities
6.	*MET briefing office*	HOD: 0600 - 1500
7.	*ATS*	H24
8.	*Fueling*	Nil facilities
9.	*Handling*	Nil facilities
10.	*Security*	H24
11.	*De-icing*	No facilities
12.	*Remarks*	Nil

FYGF AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	Nil facilities
2.	*Fuel/oil types*	Nil fuel available. Nearest airfield with fuel, Tsumeb
3.	*Fueling facilities/capacity*	Nil facilities
4.	*De-icing facilities*	Nil facilities
5.	*Hangar space for visiting aircraft*	Nil facilities
6.	*Repair facilities for visiting aircraft*	Nil facilities
7.	*Remarks*	Nil

FYGF AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	In town
2.	*Restaurants*	In town
3.	*Transportation*	O/R
4.	*Medical facilities*	First aid on AD Hospital in town
5.	*Bank and post office*	In town
6.	*Tourist office*	In town
7.	*Remarks*	Nil

FYGF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	Cat 5
2.	*Rescue equipment*	3 Fire trucks, Water=10800L, Foam=6400L Dry powder=100KG
3.	*Capability for removal of disabled aircraft*	Available
4.	*Remarks*	Nil

FYGF AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYGF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Concrete Strength: LCN Nil available
2.	*Taxiway width, surface and strength*	Width: 35 M Surface: Asphalt Strength: Nil information available
3.	*ACL location and elevation*	Nil information available
4.	*VOR/INS checkpoints*	Nil facilities
5.	*Remarks*	Old RWY 08/26 now in use as TWY

FYGF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil facilities
2.	*RWY and TWY markings and LGT*	08/26 RWY: Designator, THR, TDZ, centre line, edge RWY end TWY: Centre line, holding positions at all RWY/TWY intersections
3.	*Stop bars*	Nil facilities
4.	*Remarks*	Nil

FYGF AD 2.10 AERODROME OBSTACLES

In Approach/TKOF areas			In circling areas and at AP		Remarks
1			2		3
RWY/Area affected	Obstacle Type Elevation Markings/ LGT	Co-ordinates	Obstacle type Elevation Markings/ LGT	Co-ordinates	
a	b	C	A	b	
08/TKOF	Red and white radio mast left of extended centre line 100 FT high	Nil information available	Radio mast 100 FT high Radio mast 131 FT high	193600S 0180754E 193525S 0180701E	Nil
26/APCH	Red and white radio mast 4 NM THR RWY 26 100 FT high	Nil information available	2 NDB masts 75 FT high S of old RWY 08/26 near intersection with RWY 17/35 LGT	Nil information available	Nil
17	Nil info	Nil information available	Radio mast ± 100 FT high N of RWY 08/26 on left base leg RWY 17	Nil information available	Nil

FYGF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Grootfontein
2.	*Hours of service* *MET office outside hours*	0600 – 1500
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek
4.	*Type of landing forecast* *Interval of issuance*	Nil forecast
5.	*Briefing/consultation provided*	MET observation only
6.	*Flight documentation* *Language(s) used*	Nil info English
7.	*Charts and other information available for briefing or consultation*	Nil facilities
8.	*Supplementary equipment available for providing information*	Nil facilities
9.	*ATS units provided with information*	FYWH
10.	*Additional information (limitation of service, etc.)*	Telephone : (067) 242509

Mean daily maximum and minimum temperatures (°C) for each month of the year												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Max	29.5	28.2	27.9	27.3	25.2	22.6	22.8	25.9	29.7	31.8	30.7	30.5
Min	17.6	17.2	16.6	14.9	11.1	8.1	8.3	10.8	14.4	17.0	17.3	17.7
Relative and absolute humidity at approximately the times of MAX (a) and MNM (b) temperatures												
Rel(a)	69	76	77	71	58	56	50	40	35	38	52	61
% (b)	43	49	47	41	29	29	25	21	19	23	32	37

FYGF AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE & MAG BRG*	*Dimensions of RWY (M)*	*Strength (LCN) and surface of RWY and SWY*	*THR Coordinates*	*THR Elevation and Highest Elevation of TDZ of Precision APP RWY*
1	2	3	4	5	6
08	080º MAG	3560 M x 45 M	74 ASPH	Nil info	THR 4602 FT
26	260º MAG	3560 M x 45 M	74 ASPH	Nil info	THR 4561 FT
17	170º MAG	1040 M x 30 M	35 ASPH	Nil info	THR 4610 FT
35	350º MAG	1040 M x 30 M	35 ASPH	Nil info	THR 4586 FT

Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	8	9	10	11	12
Nil info	300 M	Nil info	Nil info	Nil info	Run up area established on TWY to RWY 24 and then on THR RWY 35
Nil info	300 M	Nil info	Nil info	Nil info	
Nil info	80 M	Nil info	Nil info	Nil info	
Nil info	80 M	Nil info	Nil info	Nil info	

FYGF AD 2.13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
08	Nil info	3560	Nil info	Nil info	Nil
26	Nil info	3560	Nil info	Nil info	Nil
17	Nil info	1040	Nil info	Nil info	Nil
35	Nil info	1040	Nil info	Nil info	Nil

FYGF AD 2.14 APPROACH AND RUNWAY LIGHTING

Remote control switching for Lights of RWY 08/ RWY26 on frequency 124.5 MHz.

Rwy lights on: click 3 times
Rwy Brightness: click 8 times
Dim: click 5 times

NOTE: Once on maximum brightness lights cannot be dimmed. Lights automatically switch off after 15 minutes

FYGF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

Nil facilities available.

FYGF AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYGF AD 2.17 ATS AIRSPACE

1.	*Designation and lateral limits*	Grootfontein ATZ Circle 5NM Centre: 193610S 0180717E
2.	*Vertical limits*	GND to 6500 FT ALT
3.	*Airspace classification*	C
4.	*ATS unit call sign* *Language(s)*	Grootfontein Tower English
5.	*Transition altitude*	6500 FT ALT
6.	*Remarks*	HOD: See AD 2.3 on ATS

FYGF AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	2	3	4	5
TWR	Grootfontein Tower	123.3 MHZ	See AD 2.3	Nil

FYGF AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	*ID*	*Frequency*	*Hours of Operation*	*Position of transmitting antenna coordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	2	3	4	5	6	7
VOR/DME (9°W/2016)	GFV	115.7 MHz CH 104X	H24	193617.70S 0180707.00E	4614 FT	Nil

FYGF AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

1.1 Circuit altitude

a) Turbine-powered aircraft 6 000 FT ALT

b) Reciprocating engine powered aircraft 5500FT ALT.

c) RTF communication failure 7 500 FT ALT.

2. Taxiing to and from stands

Nil limits.

3. Parking area for small aircraft (general aviation)

Small aircraft to park in front of old terminal building.

4. Parking area for helicopters

Nil

5. Apron - Taxiing during winter conditions

Nil

6. Taxiing - Limitations

Nil limits.

7. School and training flights - Technical test flights - Use of runways

Nil training.

8. Helicopter traffic - Limitation

Nil limits.

9. Removal of disabled aircraft from runways

When an aircraft is wrecked on a runway, it is the duty of the owner or user of such aircraft to have it removed, after permission was obtained by the Executive Director: Namibia Civil Aviation Authority. If a wrecked aircraft is not removed from the runway by the owner or user, the aircraft will be removed by the appropriate aerodrome authority at the owner's or user's expense.

FYGF AD 2.21 NOISE ABATEMENT PROCEDURES

1. Traffic departing runway 08/26 to maintain runway heading until passing 5 500 FT before a turn is made.
2. Traffic to avoid flying overhead the Military Base or Grootfontein town at low altitude.
3. Unless in an emergency no aircraft shall fly on a right downwind for RWY 26 or left downwind for RWY08.

FYGF AD 2.22 FLIGHT PROCEDURES

Radio Communication Failure (RCF)

a) Aircraft to join overhead the aerodrome at 7500 FT ALT.

b) Make all turns to left as far as practical unless directed by ATC.

c) Land as soon as possible.

d) Report to Air Traffic Control immediately.

FYGF AD 2.23 ADDITIONAL INFORMATION

1. Bird concentrations in the vicinity of the aerodrome

2. Concentration of large birds (storks) in vicinity of aerodrome.

FYGF AD 2.24 CHARTS RELATED TO GROOTFONTEIN

Nil charts available for Grootfontein Aerodrome.

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AD 2. AERODROMES

FYKM AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYKM - Katima Mulilo Aerodrome

FYKM AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP co-ordinates and site at AD*	173803S 0241036E
2.	*Direction and distance from (city)*	SW 11 NM from Katima Mulilo
3.	*Elevation/reference temperature*	3144 FT/958.2 M
4.	*MAG VAR/annual change*	7° W (2016)/ 0.05° decreasing
5.	*AD administration, address, telephone, telefax, telex, AFS*	Namibia Airports Company Limited P.O. Box 2307 Walvis Bay Namibia AD Tel: +264 66 250211 Telefax: +264 66 250212 ATC. Tel : +264 66 250202/3 Controlling AD: +264 64 271100 Fax: +264 64 200164 E-mail: dirk@airports.com.na Telex : Nil info available AFS : Nil info available
6.	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
7.	*Remarks*	Public aerodrome, designated port of entry/exit

FYKM AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	Summer and Winter : MON-FRI 0600-1500
2.	*Customs and immigration*	Customs: +264-66-250200 Immigration: +264-66-250200 24 HR prior Notice required.
3.	*Health and sanitation*	Nil facilities
4.	*AIS briefing office*	Refer number 7.
5.	*ATS reporting office (ARO)*	Refer number 7.
6.	*MET briefing office*	Nil facilities

7.	*ATS*	ATC HOD MON – FRI : 0600 – 1030 and 1100-1400 SAT : NIL, SUN: 0700 – 1300.
8.	*Fuelling*	Summer and Winter MON – FRI 0600 – 1500 SAT, SUN and Public HOL : Call out
9.	*Handling*	Nil facilities
10.	*Security*	24 HR
11.	*De-icing*	Nil facilities
12.	*Remarks*	Except in the case of emergency or with prior permission no ACFT may take off or land outside AD HOD

FYKM AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	Nil facilities
2.	*Fuel/oil types*	AVGAS and Jet A1 available
3.	*Fuelling facilities/capacity*	Southern Energy Company P.O Box 1228 Walvis Bay Tel/Fax: +264 66 250210 Refueller: Vistronel Mabuki: +264 81 4807772 Chaze Mukulumui: +264 81 275 7649 Office: +264 66 250 210 Controlling Office Tel: +264 64 203951 / 203984 (office hours) +264 81 122 7019 (After hours) Fax: +264 64 203984 Cell: +264 81 149 0114 Email: sharonb@sec.com.na 7 000 Litre Jet A1 Isotainer 10 000 Litre Jet A1 Torpedo 30 000 Litre Jet A1 bulk underground tank 23 000 Litre AVGAS bulk underground tank
4.	*De-icing facilities*	Nil facilities
5.	*Hangar space for visiting aircraft*	1 Hangar
6.	*Repair facilities for visiting aircraft*	Nil facilities
7.	*Remarks*	Nil

FYKM AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	In Katima Mulilo
2.	*Restaurants*	In Katima Mulilo
3.	*Transportation*	Nil facilities
4.	*Medical facilities*	Hospital in Katima Mulilo
5.	*Bank and post office*	In Katima Mulilo
6.	*Tourist office*	Nil facilities
7.	*Remarks*	Nil

FYKM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	CAT 5
2.	*Rescue equipment*	1 vehicle, 9000 litres water
3.	*Capability for removal of disabled aircraft*	NIL
4.	*Remarks*	Fire and rescue service HOD: Mon-Fri: 0600 - 1500 Sat: NIL service Sun: 0800 - 1200

FYKM AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYKM AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	*Apron surface and strength*	Surface: Asphalt Strength: Nil information available
2	*Taxiway width, surface and strength*	Width: 14 M Surface: asphalt Strength: Nil information available
3	*ACL location and elevation*	Nil information available
4	*VOR/INS checkpoints*	Nil facilities
5	*Remarks*	ACFT must backtrack and use RWY-TWY intersection abeam old ATC tower only – former full length parallel taxiways and intersections permanently closed.

FYKM AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil facilities
2.	*RWY and TWY markings and LGT*	RWY: Designators, THR, TDZ, Centre line TWY: Centre line and holding positions at RWY/TWY intersections
3.	*Stop bars*	Nil facilities
4.	*Remarks*	Nil

FYKM AD 2.10 AERODROME OBSTACLES

In Approach/TKOF areas			In circling areas and at AD		Remarks
1			2		3
RWY/Area affected	Obstacle Type Elevation Markings/ LGT	Co-ordinates	Obstacle type Elevation Markings/ LGT	Co-ordinates	
a	b	c	a	b	
Nil	Nil	Nil	Radio Mast Elevation: 3220FT Top of mast: 3483FT Height 263FT(80M) Day and Night	173845.9S 0240938.7E	
			NBC Tower Elevation: 3125 FT Height: 235 M AGL/770 FT Top of mast: 3895 FT	173106.4S 0241618.2E	NBC Tower is 8.81NM North East from AD

FYKM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Nil facilities
2.	*Hours of service* *MET office outside hours*	Nil facilities
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek
4.	*Type of landing forecast* *Interval of issuance*	Nil facilities
5.	*Briefing/consultation provided*	Nil facilities
6.	*Flight documentation* *Language(s) used*	English
7.	*Charts and other information available for briefing or consultation*	Nil facilities
8.	*Supplementary equipment available for providing information*	Nil facilities
9.	*ATS units provided with information*	Nil facilities
10.	*Additional information (limitation of service, etc.)*	Nil

FYKM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE BRG*	*Dimensions of RWY (M)*	*Strength (LCN) and surface of RWY and SWY*	*THR coordinates RWY end coordinates THR geoid undulation*	*THR Elevation and Highest Elevation of TDZ of Precision APP RWY*
1	**2**	**3**	**4**	**5**	**6**
09	80.35°	2292 x 21	LCN 29 Asphalt	173809.55S 0240957.74E GUND 8.8 M	3144 FT
27	260.35°	2292 x 21	LCN 29 Asphalt	173757.12S 0241113.96E GUND 8.8 M	3126 FT

Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	**8**	**9**	**10**	**11**	**12**
Nil information available	Nil information available	Nil information available	Nil information available	Nil information available	Nil

FYKM AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	**2**	**3**	**4**	**5**	**6**
09	2292	Nil info	Nil info	Nil info	Nil
27	2292	Nil info	Nil info	Nil info	Nil

FYKM AD 2.14 APPROACH AND RUNWAY LIGHTING

Nil facilities available.

FYKM AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

Nil facilities available.

FYKM AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYKM AD 2.17 ATS AIRSPACE

1.	*Designation and lateral limits*	Katima Mulilo CTR: Lateral Limits 173502.46S 0235749.61E - 173109.75S 0242136.54E - clockwise along the arc of a circle, radius 12NM, centred at 173757.12S 0241113.96E - 174643.67S 0241950.68E - 174910.27S 0240451.74E - clockwise along the arc of a circle, radius 12NM, centred at 173809.55S 0240957.74E to point of origin
2.	*Vertical limits*	SFC to 6500FT MSL
3.	*Airspace classification*	D
4.	*ATS unit call sign* *Language(s)*	Katima Tower English
5.	*Transition altitude*	10 000FT MSL
6.	*Remarks*	AD Control/FIS Katima TWR provides FIS in the Zambezi Zipfel 1500FT AGL to FL145 The provision of air traffic services in the Zambezi Zipfel area east of Divundu from 1500FT AGL to FL145 has been delegated to Katima Mulilo ATS unit on FREG 125.6MHz. If no contact is established or if operating outside ATS hours of operation, broadcast TIBA on FREQ 125.6MHz.

FYKM AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	**2**	**3**	**4**	**5**
Tower/FIS	Katima Tower	a) 125.6 MHz	SUN-FRI: 0400-1600 SAT: Nil Or as per NOTAM	Aircraft are to transmit on TIBA outside these hours

FYKM AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	*ID*	*Frequency*	*Hours of Operation*	*Position of transmitting antenna coordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	**2**	**3**	**4**	**5**	**6**	**7**
RNP APCH	N/A	1575.42 MHz	H24	N/A	N/A	Transmitting antennas are satellite based

FYKM AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

1.1 Circuit altitude

a) Turbine-powered aircraft 5000FT ALT

b) Reciprocating engine powered aircraft 4500FT ALT

c) RTF communication failure 5500FT ALT

1.2 Right hand circuit on RWY 09 and left hand circuit on RWY 27 due to training area N of AP.

1.3 All pilots operating at Katima Mulilo aerodrome must wear a lime green reflective jacket depicting their airlines concerned on the rear of the jacket for safety reasons as well as easy identification

2. Taxiing to and from stands

ACFT must backtrack and use RWY-TWY intersection abeam old ATC tower only – former full length parallel taxiways and intersections permanently closed.

3. Parking area for small aircraft (general aviation)

Nil limits.

4. Parking area for helicopters

Apron.

5. Apron - Taxiing during winter conditions

Nil limits.

6. Taxiing - Limitations

Nil limits.

7. School and training flights - Technical test flights - Use of runways

Nil training.

8. Helicopter traffic - Limitation

Nil limits.

9. Removal of disabled aircraft from runways

Nil facilities.

FYKM AD 2.21 NOISE ABATEMENT PROCEDURES

Nil procedures.

FYKM AD 2.22 FLIGHT PROCEDURES

Radio Communication Failure (RCF)

a) Aircraft to join overhead the Aerodrome at 2000FT AGL

b) Observe and join the Aerodrome TFC

c) Make all turns to the left whenever possible

d) Land as soon as possible and report to the ATC

All aircraft departing RWY27 to maintain runway until passing 4500 FT ALT or 5 NM. All aircraft landing RWY09 to be established on final approach at 5 NM, 4500 FT ALT or higher.

FYKM AD 2.23 ADDITIONAL INFORMATION

Nil.

FYKM AD 2.24 CHARTS RELATED TO KATIMA MULILO AERODROME

	Page
Aerodrome Chart – ICAO Reserved	AD 2-9
Instrument Approach Chart – ICAO RNP RWY 09	AD 2-11
Data Code RNP RWY 09	AD 2-12
Instrument Approach Chart – ICAO RNP RWY 27	AD 2-13
Data Code RNP RWY 27	AD 2-14

Aerodrome Chart - ICAO

RESERVED

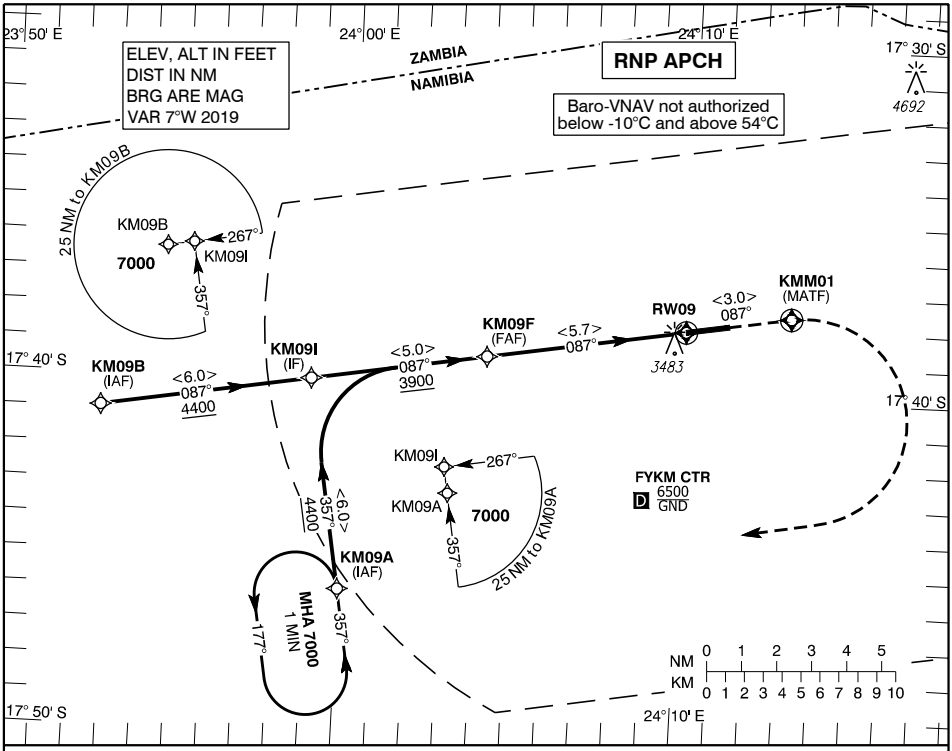
INTENTIONALLY LEFT BLANK

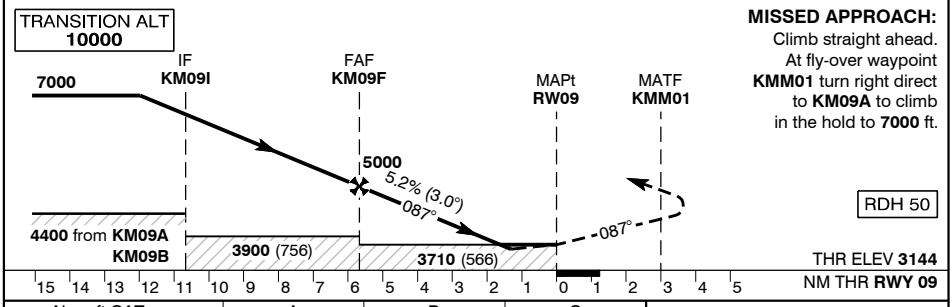
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **3144 FT**
HEIGHT RELATED TO
THR RWY - **09** ELEV - **3144 FT**

TWR 125.60

KATIMA MULILO (FYKM)
RNP RWY 09





MISSED APPROACH:
Climb straight ahead. At fly-over waypoint **KMM01** turn right direct to **KM09A** to climb in the hold to **7000** ft.

Aircraft CAT		A	B	C
MDA (OCH) VIS	LNAV	**3710** (566) 2600		
	LNAV/VNAV	**3610** (466) 2200	**3620** (476) 2200	**3630** (486) 2300
Circling South of RWY only		**3780** (636)	**3780** (636)	**3880** (646)

Distance to MAPt	NM	5	4	3	2	
Altitude	FT	**4785** (1641)	**4470** (1326)	**4150** (1006)	**3830** (686)	
Ground Speed	KTS	80	100	120	140	160
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850

NOTES:
1. Right hand circuits on RWY 09 and Left hand circuits on RWY 27 due training area North of RWY.

Circling to the NORTH prohibited

CHANGES: NEW

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	KM09A	174553.04S 0235959.50E	-	-	-	-	-	-	-	IAF
2	RNP APCH	TF	KM09I	173956.66S 0235856.59E	N	350.4 / 357	6.0	-	-	-	-	IF
3	RNP APCH	TF	KM09F	173906.50S 0240406.38E	N	080.4 / 087	5.0	-	- / 5000	-	-	FAF
4	RNP APCH	TF	RW09	173809.55S 0240957.74E	Y	080.4 / 087	5.7	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	KMM01	173739.45S 0241303.58E	Y	080.4 / 087	3.0	-	-	-	-	MATP
6	RNP APCH	DF	KM09A	174553.04S 0235959.50E	N	-	-	R	-	-	-	IAF / MAHP

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	KM09B	174056.84S 0235244.82E	-	-	-	-	-	-	-	IAF
2	RNP APCH	TF	KM09I	173956.66S 0235856.59E	N	080.4 / 087	6.0	-	-	-	-	IF
3	RNP APCH	TF	KM09F	173906.50S 0240406.38E	N	080.4 / 087	5.0	-	- / 5000	-	-	FAF
4	RNP APCH	TF	RW09	173809.55S 0240957.74E	Y	080.4 / 087	5.7	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	KMM01	173739.45S 0241303.58E	Y	080.4 / 087	3.0	-	-	-	-	MATP
6	RNP APCH	DF	KM09A	174553.04S 0235959.50E	N	-	-	R	-	-	-	IAF / MAHP

Hold Identification

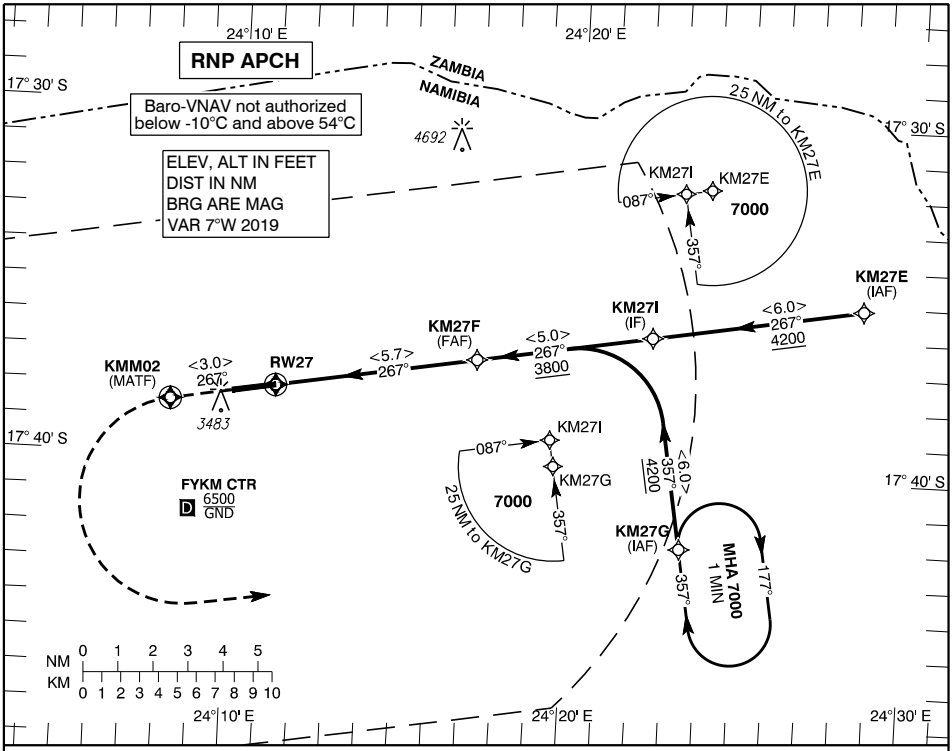
Holding Fix	Latitude / Longitude	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude/ Level (FL/ft)	Maximum Holding Altitude/ Level (FL/ft)	Outbound time (min)	Direction of Turn
KM09A	174553.04S 0235959.50E	350.4	357	240	7000	-	1	L

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **3144 FT**
HEIGHT RELATED TO
THR RWY - **27** ELEV - **3126 FT**

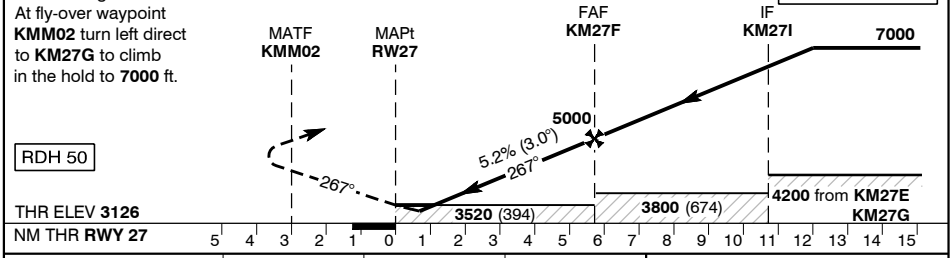
TWR 125.60

KATIMA MULILO (FYKM)
RNP RWY 27



MISSED APPROACH:
Climb straight ahead.
At fly-over waypoint **KMM02** turn left direct to **KM27G** to climb in the hold to **7000** ft.

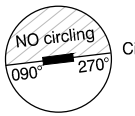
TRANSITION ALT **10000**



Aircraft CAT		A	B	C
MDA (OCH) VIS	LNAV	**3520** (394) 1800		
	LNAV/VNAV	**3400** (274) 1300	**3420** (294) 1400	**3430** (304) 1400
Circling South of RWY only		**3780** (636)	**3780** (636)	**3880** (646)

Distance to MAPt	NM	2	3	4	5	
Altitude	FT	**3815** (689)	**4130** (1004)	**4450** (1324)	**4770** (1644)	
Ground Speed	KTS	80	100	120	140	160
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850

NOTES:
1. Right hand circuits on RWY 09 and Left hand circuits on RWY 27 due training area North of RWY.



Circling to the NORTH prohibited

CHANGES: NEW

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	KM27E	173507.13S 0242829.71E	-	-	-	-	-	-	-	IAF
2	RNP APCH	TF	KM27I	173608.13S 0242218.24E	N	260.3 / 267	6.0	-	-	-	-	IF
3	RNP APCH	TF	KM27F	173658.95S 0241708.66E	N	260.3 / 267	5.0	-	- / 5000	-	-	FAF
4	RNP APCH	TF	RW27	173757.12S 0241113.96E	Y	260.3 / 267	5.7	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	KMM02	173827.61S 0240808.18E	Y	260.3 / 267	-	-	-	-	-	MATP
6	RNP APCH	DF	KM27G	174204.40S 0242321.78E	N	-	-	L	-	-	-	IAF / MAHP

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	KM27G	174204.40S 0242321.78E	-	-	-	-	-	-	-	IAF
2	RNP APCH	TF	KM27I	173608.13S 0242218.24E	N	350.3 / 357	6.0	-	-	-	-	IF
3	RNP APCH	TF	KM27F	173658.95S 0241708.66E	N	260.3 / 267	5.0	-	- / 5000	-	-	FAF
4	RNP APCH	TF	RW27	173757.12S 0241113.96E	Y	260.3 / 267	5.7	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	KMM02	173827.61S 0240808.18E	Y	260.3 / 267	-	-	-	-	-	MATP
6	RNP APCH	DF	KM27G	174204.40S 0242321.78E	N	-	-	L	-	-	-	IAF / MAHP

Hold Identification

Holding Fix	Latitude / Longitude	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude/ Level (FL/ft)	Maximum Holding Altitude/ Level (FL/ft)	Outbound time (min)	Direction of Turn
KM27G	174204.40S 0242321.78E	350.3	357	240	7000	-	1	R

AD 2. AERODROMES

FYKT AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYKT - Keetmanshoop Airport

FYKT AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP coordinates and site at AD*	263220S 0180642E
2.	*Direction and distance from (city)*	NW 3 NM from Keetmanshoop
3.	*Elevation/reference temperature*	3 506 FT/1 069 M
4.	*MAG VAR/annual change*	17° W (2016)/ 0.02° decreasing
5.	*AD administration, address, telephone, telefax, telex, AFS*	Namibia Airports Company Limited The Airport Manager Private Bag 13357 Windhoek Namibia AD Tel: +264 63 225603 Telefax: +264 63 225608 Controlling AD Tel: +264 61 2955501 Fax: +264 61 2955522 AP Supervisor Tel: +264 63 225606 Fax: +264 63 225608 E-mail: sinvula@airports.com.na Telex: NIL info available AFS: NIL
6.	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
7.	*Remarks*	Designated port of entry/exit

FYKT AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	SUMMER: MON - SUN: - 0600 – 1500 WINTER: MON – SUN: - 0700 – 1600
2.	*Customs and immigration*	On Request Immigration: +264 63 222114 Customs & Excise: +264 63 222749
3.	*Health and sanitation*	NIL info available
4.	*AIS briefing office*	NIL info available
5.	*ATS reporting office (ARO)*	NIL

6.	*MET briefing office*	0300 – 1800
7.	*ATS*	NIL
8.	*Fuelling*	NIL
9.	*Handling*	NIL
10.	*Security*	24 HRS
11.	*De-icing*	NIL facilities
12.	*Remarks*	Except in the case of emergency or with prior permission, no ACFT may take off or land outside AD OPR HR

FYKT AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	NIL
2.	*Fuel/oil types*	NIL
3.	*Fuelling facilities/capacity*	NIL
4.	*De-icing facilities*	NIL
5.	*Hangar space for visiting aircraft*	NIL
6.	*Repair facilities for visiting aircraft*	NIL
7.	*Remarks*	NIL

FYKT AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	In town (Keetmanshoop)
2.	*Restaurants*	In town (Keetmanshoop)
3.	*Transportation*	O/R
4.	*Medical facilities*	First aid at AD Hospital in town
5.	*Bank and post office*	In town (Keetmanshoop)
6.	*Tourist office*	Municipality Southern Tourist Forum (STF) Tel (063) 22 2095
7.	*Remarks*	Nil

FYKT AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	NIL
2.	*Rescue equipment*	As per NOTAM
3.	*Capability for removal of disabled aircraft*	Nil
4.	*Remarks*	NIL

FYKT AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYKT AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Concrete Strength: Nil information
2.	*Taxiway width, surface and strength*	Width: 23 M Surface: Asphalt Strength: Nil information
3.	*ACL location and elevation*	Nil information
4.	*VOR/INS checkpoints*	Nil facilities
5.	*Remarks*	Nil

FYKT AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	None
2.	*RWY and TWY markings and LGT*	04/22 RWY: Designation: THR, TDZ, CL, edge runway end as appropriate, marked and LGTD TWY: CL, HLDG PSN at all TWY/RWY intersections, marked and LGT
3.	*Stop bars*	Nil facilities
4.	*Remarks*	Nil

FYKT AD 2.10 AERODROME OBSTACLES

In Approach/TKOF areas			In circling areas and at AP		Remarks
1			2		3
RWY/Area affected	*Obstacle Type Elevation Markings/ LGT*	*Co-ordinates*	*Obstacle type Elevation Markings/ LGT*	*Co-ordinates*	
A	b	c	A	B	
04 APCH 22 TKOF	Nil info AVBL	Nil info AVBL	Nil info AVBL	Nil info AVBL	Radio mast ± 1.7 NM SSE THR 04 & 36 Height 125 FT AGL (300 FT above AD ELEV)

FYKT AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Windhoek
2.	*Hours of service* *MET office outside hours*	0300 – 1800 Windhoek TEL: +264 62 540059
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek MET
4.	*Type of landing forecast* *Interval of issuance*	METARS/SPECI Hourly
5.	*Briefing/consultation provided*	Nil
6.	*Flight documentation* *Language(s) used*	Nil information English
7.	*Charts and other information available for briefing or consultation*	Nil charts available
8.	*Supplementary equipment available for providing information*	Telefax, telephone, telex
9.	*ATS units provided with information*	FYWH ACC
10.	*Additional information (limitation of service, etc.)*	Nil

Mean daily maximum and minimum temperatures (°C) for each month of the year												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Max	35.1	33.7	31.8	28.1	24.1	21.2	21.2	23.4	27.4	29.9	32.6	34.4
Min	18.6	18.5	17.5	13.7	9.8	7.2	6.2	7.2	10.5	13.1	15.6	17.3
Relative and absolute humidity at approximately the times of MAX (a) and MNM (b) temperatures												
Rel(a)	43	52	57	58	55	56	53	49	42	38	37	39
% (b)	19	25	28	27	25	27	24	20	17	15	15	17

FYKT AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE BRG*	*Dimensions of RWY (M)*	*Strength (LCN) and surface of RWY and SWY*	*THR coordinates RWY end coordinates THR geoid undulation*	*THR Elevation and Highest Elevation of TDZ of Precision APP RWY*
1	2	3	4	5	6
04	015.90º	2316 x 45	LCN 62 ASPH	263258.99S 0180629.92E GUND 30.0 M	3439 FT
22	195.90º	2316 x 45	LCN 62 ASPH	263147.01S 0180652.71E GUND 30.0 M	3506 FT
18	155.26º	1434 x 30	LCN 16 GRAV	263154.46S 0180632.93E GUND 30.0 M	3502 FT
36	335.26º	1434 x 30	LCN 16 GRAV	263236.36S 0180654.39E GUND 30.0 M	3487 FT

Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	8	9	10	11	12
0.87	Nil info	Nil info	Nil info	Nil info	Nil
0.87	Nil info	Nil info	Nil info	Nil info	Nil
0.35	Nil info	Nil info	Nil info	Nil info	Nil
0.35	Nil info	Nil info	Nil info	Nil info	Nil

FYKT AD 2.13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
04	2316	Nil	Nil	Nil	Nil
22	2316	Nil	Nil	Nil	Nil
18	1434	Nil info	Nil info	Nil info	Nil
36	1434	Nil info	Nil info	Nil info	Nil

FYKT AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	*APCH LGT type LEN INTST*	*THR LGT colour WBAR*	*VASIS (MEHT) PAPI*	*TDZ, LGT, LEN*	*RWY Centre line LGT length, spacing, colour, INTST*
1	2	3	4	5	6
04	Nil info	Green	PAPI Angle 3º	Nil info	Nil info
22	Nil info	Green	PAPI Angle 3º	Nil info	Nil info
18	Nil info	Nil info	Nil info	Nil info	Nil info
36	Nil info	Nil info	Nil info	Nil info	Nil info

RWY edge LGT LEN spacing colour INTST	*RWY End LGT colour WBAR*	*SWY LGT LEN (M) colour*	*Remarks*
7	8	9	10
04 2361 M White/LIH/60 M	Red	Nil info	Nil RWY lighting outside AD HOD, except with 6 HR PN for emergency landing or mercy flights
22 2631 M White/LIH/60 M	Red	Nil info	Last 200 M of lights amber

FYKT AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	*ABN/IBN location, characteristics and hours of operation*	Flashing green and white HS
2.	*LDI location and LGT* *Anemometer location and LGT*	None Pressure tube anemometer 300 M of intersection of RWY 04 and 36 Temperature: 100 M SW of intersection of RWY 04 and 36
3.	*TWY edge and centre line lighting*	Edge: Blue Centre line: Nil
4.	*Secondary power supply/switch-over time*	Secondary power for all AD lighting No automatic switch available. In the event of main power failure, nil secondary power available.
5.	*Remarks*	Nil

FYKT AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYKT AD 2.17 ATS AIRSPACE

NIL

FYKT AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	2	3	4	5
TIBA	Keetmanshoop Traffic	118.3 MHZ	HS	NIL ATS Services, pilots to broadcast PSN

FYKT AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	*ID*	*Frequency*	*Hours of Operation*	*Position of transmitting antenna coordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	2	3	4	5	6	7
VOR/DME (17°W/2016)	KTV	112.9MHz CH76X	H24	263214.69S 0180649.09E	3524FT	Nil
UHF DME	KTV	Tx 1163MHz Rx 1100MHz	H24	263214.69S 0180649.09E	Nil Info	Channel 76X co-axially located with VOR
RNP APCH	N/A	1575.42 MHz	H24	N/A	N/A	Transmitting antennas are satellite based

FYKT AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

1.1 Circuit altitude

a) Turbine-powered aircraft 5 000 FT ALT.

b) Reciprocating engine powered aircraft 4 500 FT ALT.

1.2 Except in case of an emergency or with prior permission, no aircraft may take off or land outside AD HOD.

1.3 All pilots operating at Keetmanshoop aerodrome must wear a lime green reflective jacket depicting their airlines concerned on the rear of the jacket for safety reasons as well as easy identification

2. Taxiing to and from stands

Nil procedures.

3. Parking area for small aircraft (general aviation)

All aircraft to follow marshaller's instructions.

4. Parking area for helicopters

All helicopters to follow marshaller's instructions.

5. Apron - Taxiing during winter conditions

Nil procedures.

6. Taxiing - Limitations

Nil limits.

7. School and training flights - Technical test flights - Use of runways

Nil training.

8. School and training flights - Technical test flights - Use of runways

Nil training.

9. Helicopter traffic - Limitation

Nil limits.

10. Removal of disabled aircraft from runways

When an aircraft is wrecked on a runway, it is the duty of the owner or user of such aircraft to have it removed, after permission was obtained by the Executive Director: Namibia Civil Aviation Authority. If a wrecked aircraft is not removed from the runway by the owner or user, the aircraft will be removed by the appropriate aerodrome authority at the owner's or user's expense.

FYKT AD 2.21 NOISE ABATEMENT PROCEDURES

Nil procedures.

FYKT AD 2.22 FLIGHT PROCEDURES

Radio Communication Failure (RCF)

a) Aircraft to join overhead the Aerodrome at 2000feet AGL

b) Observe and join the Aerodrome TFC

c) Make all turns to the left whenever possible

d) Land as soon as possible

FYKT AD 2.23 ADDITIONAL INFORMATION

1. Bird concentrations in the vicinity of the aerodrome.

2. Warning: Occasional blasting is carried out at Namibia quarry 3NM of THR RWY 22.

FYKT AD 2.24 CHARTS RELATED TO KEETMANSHOOP

	Page
Aerodrome Chart – ICAO	AD 2-13
Instrument Approach Chart – ICAO RNP RWY 04	AD 2-15
Data Code RNP RWY 04	AD 2-16
Instrument Approach Chart – ICAO RNP RWY 22	AD 2-17
Data Code RNP RWY 22	AD 2-18

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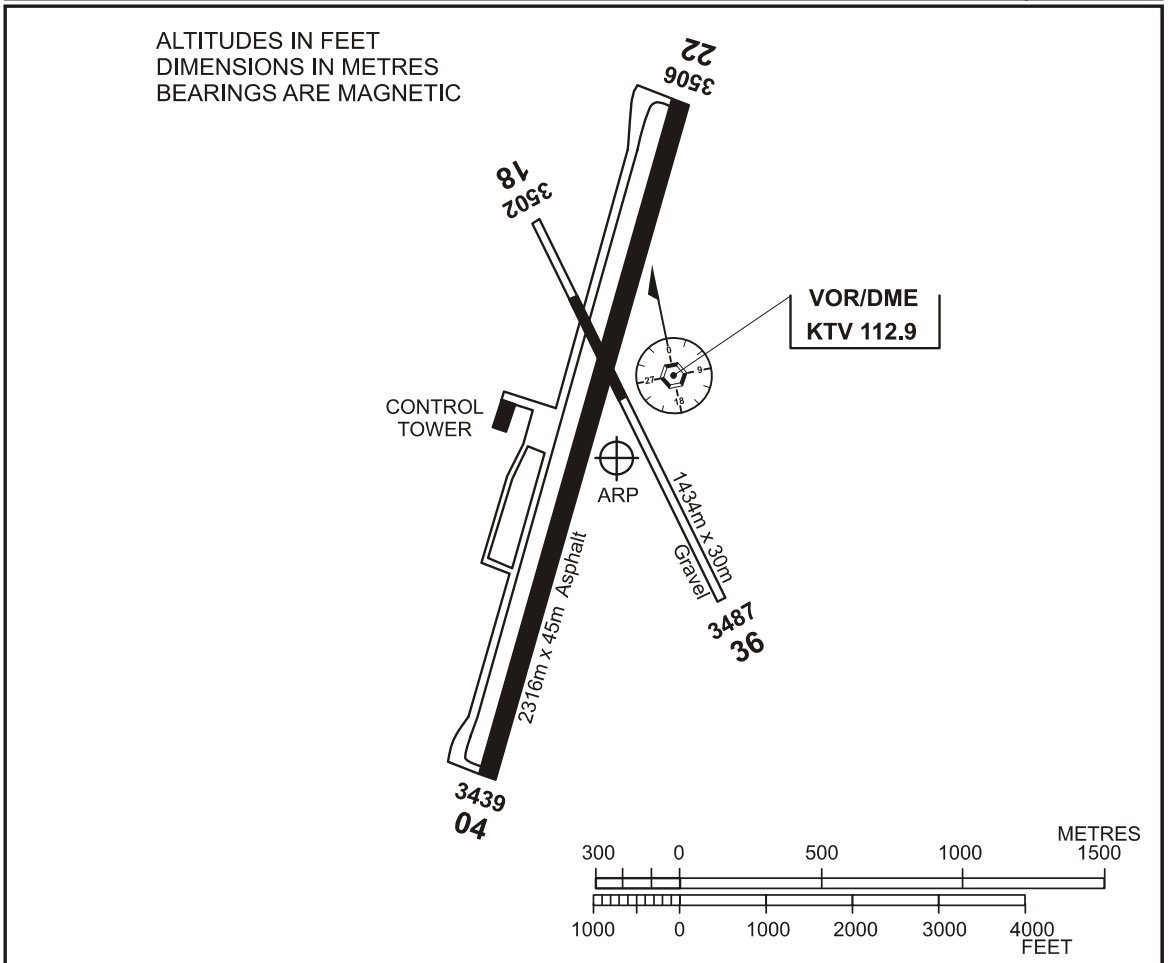
Elev	Var	ARP	
3506	17°W	S26°32'19.64" E018°06'42.31"	

KEETMANSHOOP
AERODROME

KEETMANSHOOP Traffic
118.3

Eff
10 NOV 16

FYKT



R/W	VASIS	APPROACH	THR	RUNWAY	L.DIST	SLOPE
04 (016°T)	P3°	Nil	Gr	LIH	Full	Nil
22 (196°T)					Full	Nil
18 (155°T)	Nil	Nil	Nil	Nil	Full	Nil
36 (335°T)					Full	Nil

OTHER LIGHTING: Taxiway

TAXIWAY WIDTHS
23m asphalt.

1. Bird concentrations in the vicinity of the aerodrome.
2. Warning: Occasional blasting 3 NM N of THR Rwy 22.

Rev : *VAR and Changed Tower to Traffic*

Namibia DCA

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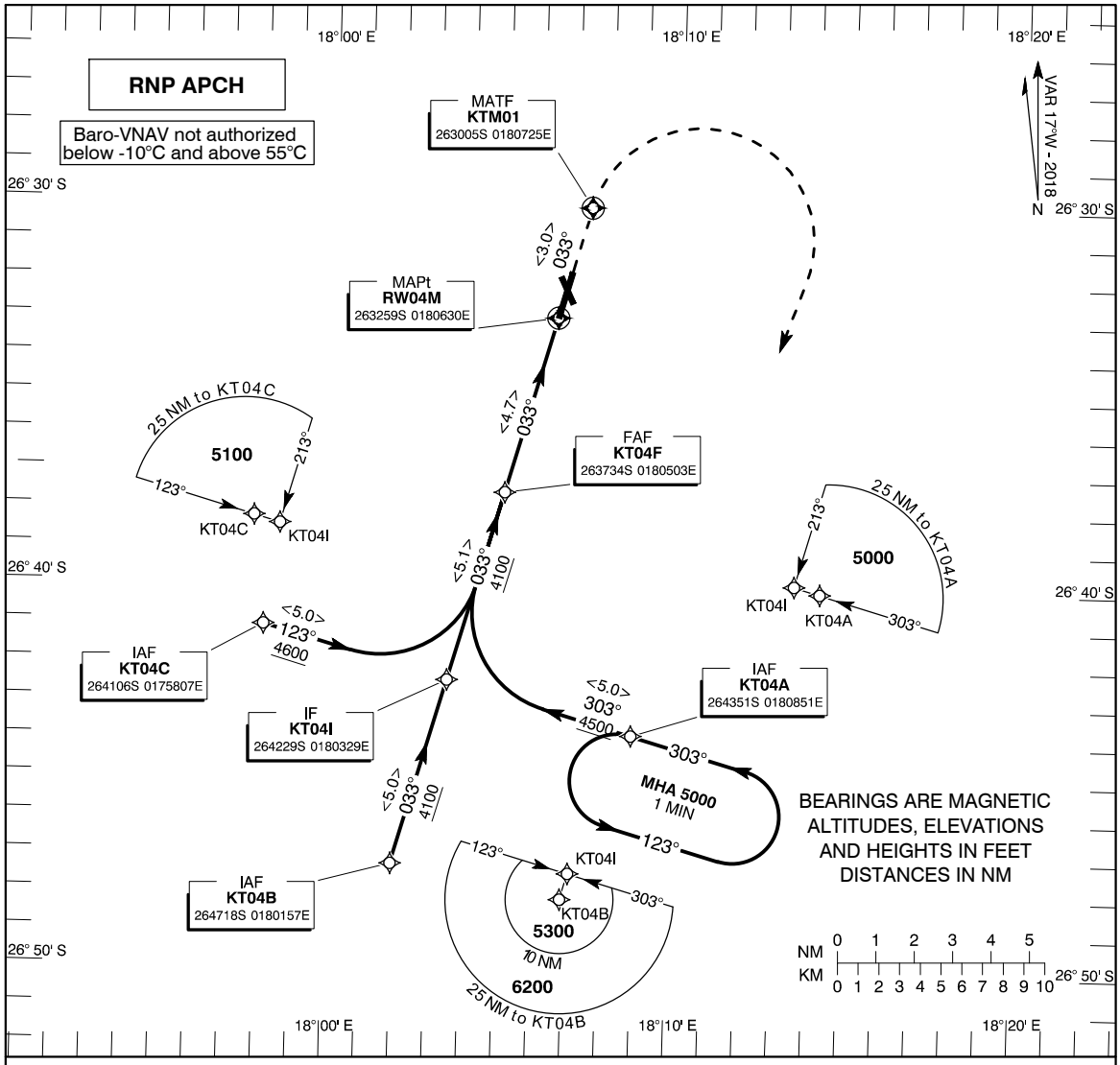
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **3506 FT**
HEIGHT RELATED TO
THR RWY - **04** ELEV - **3439 FT**

UNM 118.30

KEETMANSHOOP (FYKT)

RNP RWY 04



TRANSITION ALT
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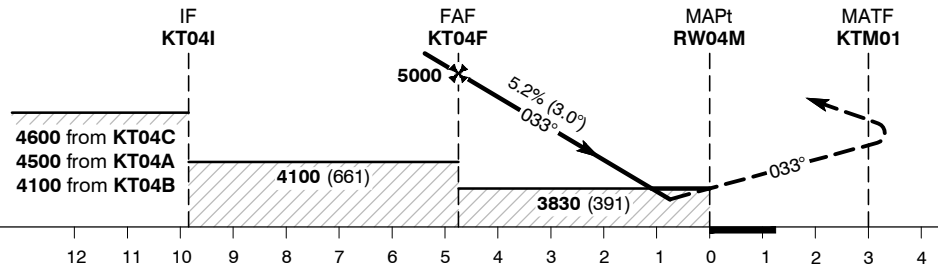


MISSED APPROACH:
Climb straight ahead. At fly-over waypoint **KTM01** turn right direct to **KT04A** to join the hold (MHA **5000**).

RDH 50

THR ELEV **3439**

NM THR **RWY 04**

Aircraft cat		A	B	C	D
MDA (OCH) VIS	LNAV	**3830** (391) 1600			
	LNAV/VNAV	**3720** (281) 1200	**3730** (291) 1200	**3770** (331) 1300	**3780** (341) 1400

Distance to MAPt	NM	2		3		4
Altitude	FT	**4125** (686)		**4445** (1006)		**4765** (1326)
Ground Speed	KTS	80	100	120	140	160
Rate of Descent (3.0°)	FT/MIN	425	530	635	745	850

NOTES:

CHANGES: NEW

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	KT04A	26°43'51.33"S / 018°08'51.44"E	-	-	-	-	- / 5000	-	-	IAF
2	RNP APCH	TF	KT04I	26°42'29.00"S / 018°03'29.19"E	N	285.9 / 303	5.0	-	-	-	-	IF
3	RNP APCH	TF	KT04F	26°37'33.86"S / 018°05'02.80"E	N	015.9 / 033	5.1	-	- / 5000	-	-	FAF
4	RNP APCH	TF	RWY04	26°32'58.99"S / 018°06'29.92"E	Y	015.9 / 033	4.7	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	KTM01	26°30'05.38"S / 018°07'24.92"E	Y	015.9 / 033	-	-	-	-	-	KTV 031° / KTV D2.2
6	RNP APCH	DF	KT04A	26°43'51.33"S / 018°08'51.44"E	N	-	-	R	-	-	-	IAF / MAHP

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	KT04B	26°47'18.35"S / 018°01'57.35"E	-	-	-	-	- / 5300	-	-	IAF
2	RNP APCH	TF	KT04I	26°42'29.00"S / 018°03'29.19"E	N	015.9 / 033	5.0	-	-	-	-	IF
3	RNP APCH	TF	KT04F	26°37'33.86"S / 018°05'02.80"E	N	015.9 / 033	5.1	-	- / 5000	-	-	FAF
4	RNP APCH	TF	RWY04	26°32'58.99"S / 018°06'29.92"E	Y	015.9 / 033	4.7	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	KTM01	26°30'05.38"S / 018°07'24.92"E	Y	015.9 / 033	-	-	-	-	-	KTV 031° / KTV D2.2
6	RNP APCH	DF	KT04A	26°43'51.33"S / 018°08'51.44"E	N	-	-	R	-	-	-	IAF / MAHP

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	KT04C	26°41'06.48"S / 017°58'07.07"E	-	-	-	-	- / 5100	-	-	IAF
2	RNP APCH	TF	KT04I	26°42'29.00"S / 018°03'29.19"E	N	105.9 / 123	5.0	-	-	-	-	IF
3	RNP APCH	TF	KT04F	26°37'33.86"S / 018°05'02.80"E	N	015.9 / 033	5.1	-	- / 5000	-	-	FAF
4	RNP APCH	TF	RWY04	26°32'58.99"S / 018°06'29.92"E	Y	015.9 / 033	4.7	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	KTM01	26°30'05.38"S / 018°07'24.92"E	Y	015.9 / 033	-	-	-	-	-	KTV 031° / KTV D2.2
6	RNP APCH	DF	KT04A	26°43'51.33"S / 018°08'51.44"E	N	-	-	R	-	-	-	IAF / MAHP

Hold Identification

Holding Fix	Latitude / Longitude	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude/ Level (FL/ft)	Maximum Holding Altitude/ Level (FL/ft)	Outbound time (min)	Direction of Turn
KT04A	26°43'51.33"S / 018°08'51.44"E	285.8	303	250	5000	-	1	L

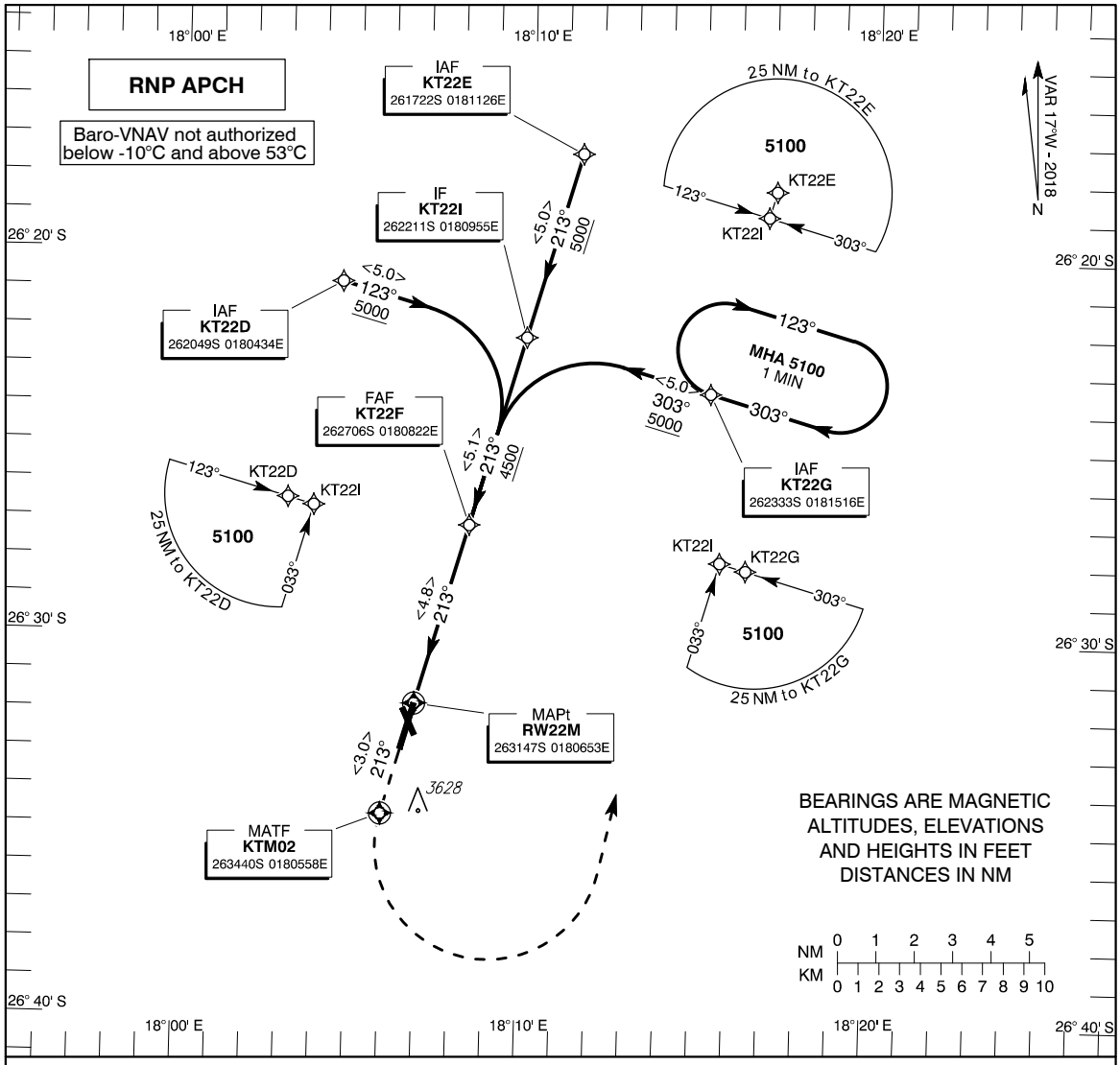
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **3506 FT**
HEIGHT RELATED TO
THR RWY - **22** ELEV - **3506 FT**

UNM 118.30

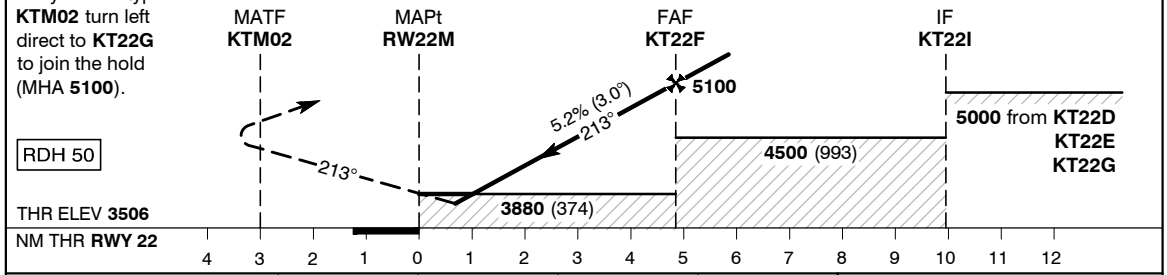
KEETMANSHOOP (FYKT)

RNP RWY 22



MISSED APPROACH:
Climb straight ahead.
At fly-over waypoint **KTM02** turn left direct to **KT22G** to join the hold (MHA **5100**).

TRANSITION ALT **10000**



Aircraft cat		A	B	C	D
MDA (OCH) VIS	LNAV	**3880** (374) 1500			
	LNAV/VNAV	**3770** (264) 1100	**3780** (274) 1100	**3790** (284) 1200	**3800** (294) 1200

Distance to MAPt	NM	2	3	4
Altitude	FT	**4195** (688)	**4510** (1003)	**4830** (1323)

Ground Speed	KTS	80	100	120	140	160
Rate of Descent (3.0°)	FT/MIN	425	530	635	745	850

NOTES:

CHANGES: NEW

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	KT22D	26°20'48.60"S / 018°04'33.71"E	-	-	-	-	- / 5100	-	-	IAF
2	RNP APCH	TF	KT22I	26°22'11.13"S / 018°09'54.89"E	N	105.9 / 123	5.0	-	-	-	-	IF
3	RNP APCH	TF	KT22F	26°27'06.29"S / 018°08'21.55"E	N	195.9 / 213	5.1	-	- / 5100	-	-	FAF
4	RNP APCH	TF	RWY22	26°31'47.01"S / 018°06'52.71"E	Y	195.9 / 213	4.9	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	KTM02	26°34'40.44"S / 018°05'57.80"E	Y	195.9 / 213	-	-	-	-	-	KTV 215° / KTV D2.5
6	RNP APCH	DF	KT22G	26°23'33.46"S / 018°15'16.19"E	N	-	-	L	-	-	-	IAF / MAHP

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	KT22E	26°17'21.75"S / 018°11'26.33"E	-	-	-	-	- / 5100	-	-	IAF
2	RNP APCH	TF	KT22I	26°22'11.13"S / 018°09'54.89"E	N	195.9 / 213	5.0	-	-	-	-	IF
3	RNP APCH	TF	KT22F	26°27'06.29"S / 018°08'21.55"E	N	195.9 / 213	5.1	-	- / 5100	-	-	FAF
4	RNP APCH	TF	RWY22	26°31'47.01"S / 018°06'52.71"E	Y	195.9 / 213	4.9	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	KTM02	26°34'40.44"S / 018°05'57.80"E	Y	195.9 / 213	-	-	-	-	-	KTV 215° / KTV D2.5
6	RNP APCH	DF	KT22G	26°23'33.46"S / 018°15'16.19"E	N	-	-	L	-	-	-	IAF / MAHP

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	KT22G	26°23'33.46"S / 018°15'16.19"E	-	-	-	-	- / 5100	-	-	IAF
2	RNP APCH	TF	KT22I	26°22'11.13"S / 018°09'54.89"E	N	285.9 / 303	5.0	-	-	-	-	IF
3	RNP APCH	TF	KT22F	26°27'06.29"S / 018°08'21.55"E	N	195.9 / 213	5.1	-	- / 5100	-	-	FAF
4	RNP APCH	TF	RWY22	26°31'47.01"S / 018°06'52.71"E	Y	195.9 / 213	4.9	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	KTM02	26°34'40.44"S / 018°05'57.80"E	Y	195.9 / 213	-	-	-	-	-	KTV 215° / KTV D2.5
6	RNP APCH	DF	KT22G	26°23'33.46"S / 018°15'16.19"E	N	-	-	L	-	-	-	IAF / MAHP

Hold Identification

Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude/ Level (FL/ft)	Maximum Holding Altitude/ Level (FL/ft)	Outbound time (min)	Direction of Turn
KT22G	26°23'33.46"S / 018°15'16.19"E	285.8	303	250	5100	-	1	R

AD 2. AERODROMES

FYLZ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYLZ - Luderitz Aerodrome

FYLZ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP coordinates and site at AD*	264107S 0151444E
2.	*Direction and distance from (city)*	SE 5 NM from Luderitz
3.	*Elevation/reference temperature*	457 FT/139 M
4.	*MAG VAR/annual change*	17° W (2016)
5.	*AD administration, address, telephone, telefax, telex, AFS*	Namibia Airports Company Luderitz P.O.Box 2307, Walvis Bay, Namibia Sarel Baumgarten: +264 81 268 7367 Administration Tel: +264 63 202035 ATC Tel: +264 63 703590/ 202228 Additional ATC Tel: +264 63 703591 ATC Fax: +264 63 703599 Telefax: +264 63 202027 Controlling AD Tel S/B : +264 64 271100 Fax: +264 64 200164 Email: TjihukununaD@airports.com.na Telex: Nil info available AFS: Nil info available
6.	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
7.	*Remarks*	Public aerodrome, designated port of entry/exit

FYLZ AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	Summer: MON-FRI 0600-1500, SAT-SUN 0700-1300 Winter : MON-FRI 0700-1600, SAT-SUN 0800-1400
2.	*Customs and immigration*	O/R Telephone: (063) 202259
3.	*Health and sanitation*	Nil services
4.	*AIS briefing office*	Nil services
5.	*ATS reporting office (ARO)*	Nil services
6.	*MET briefing office*	Nil services
7.	*ATS*	TWR: As per NOTAM
8.	*Fuelling*	Summer MON – FRI : 0600 – 1500 SAT, SUN and Public HOL : Call out Winter MON – FRI : 0700 – 1600 SAT, SUN and Public HOL : Call out

9.	*Handling*	Nil services
10.	*Security*	24 HRS
11.	*De-icing*	Nil services
12.	*Remarks*	Except in the case of emergency or with prior permission no ACFT may take off or land outside AD OPR HR.

FYLZ AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	Nil info
2.	*Fuel / oil types*	AVGAS, Jet A1
3.	*Fueling facilities /capacity*	Southern Energy Company P.O Box 1228 Walvis Bay Tel/Fax: +264 63 203605 Refueler: Charles Pieters, Cell : +264 81 3319022 Giel Du Toit (Supervisor) +264 81 128 0062 Mobile: +264 81 331 9022 Office: +264 63 203605 SDBY cell phone: +264 855 442 006 Controlling Office Tel: +264 64 203951 / 203984 (office hours) +264 81 122 7019 (After hours) Fax: +264 64 203984 Cell: +264 81 149 0114 Email: Sharonb@sec.com.na 2 000 Litre AVGAS tank 10 000 Litre AVGAS Torpedo 14 000 Litre Jet A1 tank
4.	*De-icing facilities*	Nil info
5.	*Hangar space for visiting aircraft*	Nil info
6.	*Repair facilities for visiting aircraft*	Nil info
7.	*Remarks*	Nil info

FYLZ AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	In town
2.	*Restaurants*	In town
3.	*Transportation*	Nil
4.	*Medical facilities*	Hospital in town
5.	*Bank and post office*	In town
6.	*Tourist office*	In town
7.	*Remarks*	Nil

FYLZ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	CAT 4
2.	*Rescue Equipment*	1 vehicle, 4 000 Litres of water, 1000Litres foam, 50kg DCP

3.	*Capability for removal of disabled aircraft*	NIL
4.	*Remarks*	Fire & rescue service HOD: Summer, Mon-Fri 0600-1500 Sat & Sun 0700-1300 Winter, Mon-Fri 0700-1600 Sat & Sun 0800-1400

FYLZ AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYLZ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Concrete Strength: Nil info available
2.	*Taxiway width, surface and strength*	Nil taxiways
3.	*ACL location and elevation*	Nil facilities
4.	*VOR/INS checkpoints*	Nil facilities
5.	*Remarks*	Nil

FYLZ AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil facilities
2.	*RWY and TWY markings and LGT*	RWY designators, centre line
3.	*Stop bars*	Nil
4.	*Remarks*	Nil

FYLZ AD 2.10 AERODROME OBSTACLES

Area 2					
OBST ID/ Designation	*OBST Type*	*OBST position*	*ELEV/HGT (M)*	*Markings/ Type, colour*	*Remarks*
a	*b*	*c*	*d*	*e*	*f*
Luderitz Wind farm	Wind turbines	263820.67S 0151058.97E 263812.77S 0151114.21E 263759.38S 0151140.00E	200	NIL INFO AVBL	NIL INFO AVBL

FYLZ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Nil facilities
2.	*Hours of service* *MET office outside hours*	Nil services
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek
4.	*Type of landing forecast* *Interval of issuance*	Nil information available
5.	*Briefing/consultation provided*	Nil services
6.	*Flight documentation* *Language(s) used*	Nil English
7.	*Charts and other information available for briefing or consultation*	Nil facilities
8.	*Supplementary equipment available for providing information*	Nil facilities
9.	*ATS units provided with information*	FYWH
10.	*Additional information (limitation of service, etc.)*	Nil

FYLZ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE BRG*	*Dimensions of RWY (M)*	*Strength (LCN) and surface of RWY and SWY*	*THR Co-ordinates RWY end coordinates THR geoid undulation*	*THR Elevation and Highest Elevation of TDZ of Precision APP RWY*
1	2	3	4	5	6
04	016.88°	1830 x 30	LCN 35 Asphalt	264129.52S 0151429.17E GUND 32.1 M	420 FT
22	196.88°	1830 x 30	LCN 35 Asphalt	264032.99S 0151448.27E GUND 32.1 M	392 FT
12	098.65°	1193 x 30	LCN 20 GR	264113.87S 0151431.56E GUND 32.1 M	421 FT
30	278.65°	1193 x 30	LCN 20 GR	264119.69S 0151514.21E GUND 32.1 M	457 FT

Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	8	9	10	11	12
Nil info	Nil info	Nil info	Nil info	Nil info	Nil
Nil info	Nil info	Nil info	Nil info	Nil info	Nil
Nil info	Nil info	Nil info	Nil info	Nil info	Nil
Nil info	Nil info	Nil info	Nil info	Nil info	Nil

FYLZ AD 2.13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
04	1830	1830	1830	1830	Nil
22	1830	1830	1830	1830	Nil
12	1193	1193	1193	1193	Nil
30	1193	1193	1193	1193	Nil

FYLZ AD 2.14 APPROACH AND RUNWAY LIGHTING

Nil facilities available.

FYLZ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

Nil facilities available.

FYLZ AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYLZ AD 2.17 ATS AIRSPACE

1.	*Designation and lateral limits*	Luderitz CTR: Lateral Limits: From point 264455.99S 0150138.68E - 263116.12S 0150616.96E – clockwise along the arc of a circle, radius 12NM, centred at 264032.99S 0151448.27E - 263132.00S 0152340.26E – 265325.05S 0151617.09E - clockwise along the arc of a circle, radius 12NM, centred at 264129.52S 0151429.17E to point of origin.
2.	*Vertical limits*	SFC–3500FT MSL
3.	*Airspace classification*	D
4.	*ATS unit call sign* *Language(s)*	Luderitz Tower English
5.	*Transition altitude*	10 000 FT AMSL
6.	*Remarks*	NIL

FYLZ AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	2	3	4	5
TWR	Luderitz Tower	118.6MHz	As per Notam	All ACFT to BCST Luderitz TWR FREQ 118.6MHz when TWR unmanned

FYLZ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	*ID*	*Frequency*	*Hours of Operation*	*Position of transmitting antenna coordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	2	3	4	5	6	7
RNP APCH	N/A	1575.42 MHz	H24	N/A	N/A	Transmitting antennas are satellite based

FYLZ AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

1.1 All pilots operating at Luderitz aerodrome must wear a lime green reflective jacket depicting their airlines concerned on the rear of the jacket for safety reasons as well as easy identification

1.2 Circuit Altitude:

a) Turbine powered aircraft 2000 FT AMSL

b) Reciprocating Engine powered aircraft

1500 FT AMSL

2. Taxiing to and from stands

Nil

3. Parking area for small aircraft (general aviation)

Parking on the apron.

4. Parking area for helicopters

Nil

5. Apron - Taxiing during winter conditions

Nil

6. Taxiing - Limitations

Nil

7. School and training flights - Technical test flights - Use of runways

Nil

8. Helicopter traffic - Limitation

Nil

9. Removal of disabled aircraft from runways

Nil

FYLZ AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable.

FYLZ AD 2.22 FLIGHT PROCEDURES

1. Radio Communication failure:

   a) Aircraft to join overhead the aerodrome at 2500 FT AMSL.

   b) Observe and join the aerodrome TFC.

   c) Make all turns to the left whenever possible.

   d) Watch for ATC light signals from the TWR.

   e) Land as soon as possible and report to the ATC.

2. Circuits patterns during ATC HOD:

RWY 22/04: All ACFT can expect to fly circuits to the east.

RWY 22 Left - hand circuits

RWY 04 Right - hand circuits

FYLZ AD 2.23 ADDITIONAL INFORMATION

NIL

FYLZ AD 2.24 CHARTS RELATED TO LUDERITZ

	Page
Instrument Approach Chart – ICAO RNP RWY 04	AD 2-9
Database coding FYLZ RNP RWY 04	AD 2-10
Instrument Approach Chart – ICAO RNP RWY 22	AD 2-11
Database coding FYLZ RNP RWY 22	AD 2-12
Visual Approach Chart – ICAO	AD 2-13
Additional Information	AD 2-14

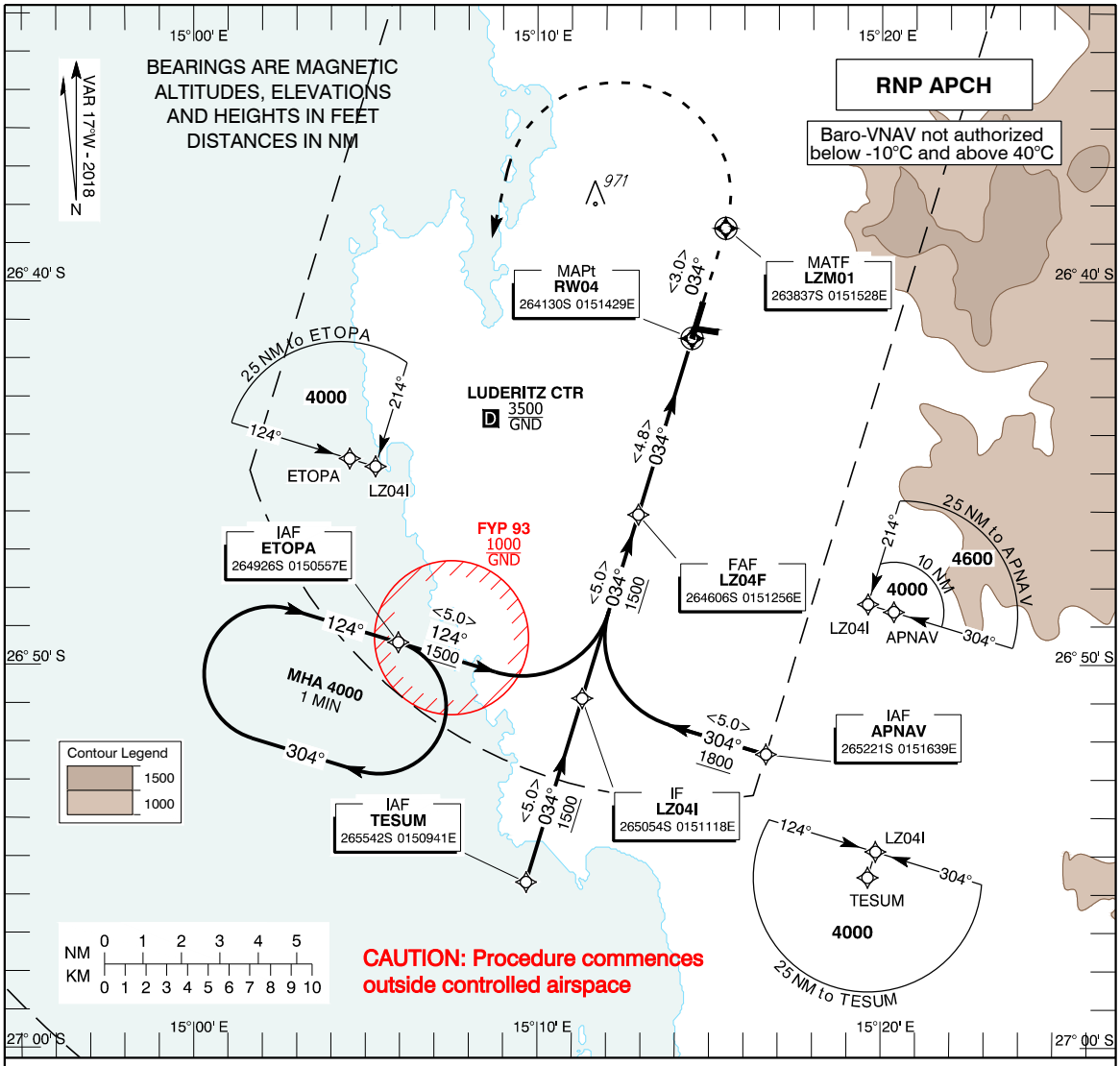
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **457 FT**
HEIGHT RELATED TO
THR RWY - **04** ELEV - **420 FT**

TWR	118.60
UNM	118.60

LUDERITZ (FYLZ)

RNP RWY 04



TRANSITION ALT
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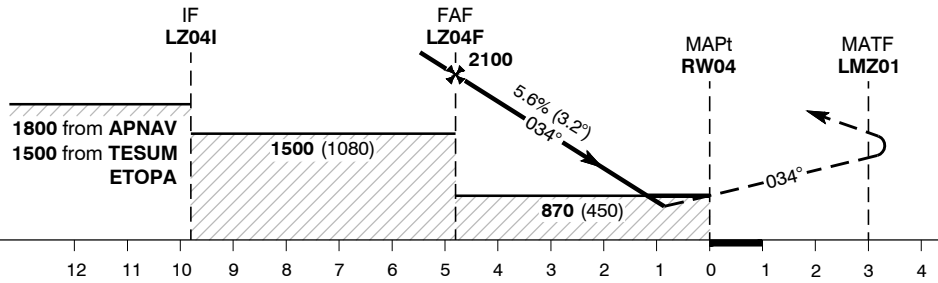


MISSED APPROACH:
Climb straight ahead.
At fly-over waypoint
LZM01 turn left
direct to **ETOPA**
to join the hold
(MHA **4000**).

RDH 50

THR ELEV **420**
NM THR **RWY 04**

Aircraft CAT		A	B	C
MDA (OCH) VIS	LNAV	**870** (450) 1900		
	LNAV/VNAV	**760** (340) 1300	**770** (350) 1400	**780** (360) 1400
Distance to MAPt	NM	4	3	2
Altitude	FT	**1830** (1410)	**1490** (1070)	**1150** (730)

Ground Speed	KTS	80	100	120	140	160
Rate of Descent (3.2°)	FT/MIN	455	565	680	795	905

NOTES:
1. Track shortening inside IAF not permitted.
2. Procedure commences outside controlled airspace.
3. Strong winds and severe sandstorms possible.
4. Broadcast intentions on 123.8MHz and 124.8MHz until established within CTR.
5. Visual segment penetrated - terrain right of track.

CHANGES: NEW

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	APNAV	265221.19S 0151639.12E	-	-	-	-	- / 4000	-	-	IAF
2	RNP APCH	TF	LZ04I	265053.83S 0151118.12E	N	286.9 / 304	5.0	-	-	-	-	IF
3	RNP APCH	TF	LZ04F	264605.96S 0151255.63E	N	016.9 / 034	5.0	-	- / 2100	-	-	FAF
4	RNP APCH	TF	RW04	264129.71S 0151429.11E	Y	016.9 / 034	4.8	-	-	-	3.20 / 50	MAPt
5	RNP APCH	CF	LZM01	263836.98S 0151527.54E	Y	016.9 / 034	-	-	-	-	-	MATP
6	RNP APCH	DF	ETOPA	264926.26S 0150557.26E	N	-	-	L	-	-	-	IAF / MAHP

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	TESUM	265541.69S 0150940.55E	-	-	-	-	- / 4000	-	-	IAF
2	RNP APCH	TF	LZ04I	265053.83S 0151118.12E	N	016.9 / 034	5.0	-	-	-	-	IF
3	RNP APCH	TF	LZ04F	264605.96S 0151255.63E	N	016.9 / 034	5.0	-	- / 2100	-	-	FAF
4	RNP APCH	TF	RW04	264129.71S 0151429.11E	Y	016.9 / 034	4.8	-	-	-	3.20 / 50	MAPt
5	RNP APCH	CF	LZM01	263836.98S 0151527.54E	Y	016.9 / 034	-	-	-	-	-	MATP
6	RNP APCH	DF	ETOPA	264926.26S 0150557.26E	N	-	-	L	-	-	-	IAF / MAHP

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	ETOPA	264926.26S 0150557.26E	-	-	-	-	- / 4000	-	-	IAF
2	RNP APCH	TF	LZ04I	265053.83S 0151118.12E	N	106.9 / 124	5.0	-	-	-	-	IF
3	RNP APCH	TF	LZ04F	264605.96S 0151255.63E	N	016.9 / 034	5.0	-	- / 2100	-	-	FAF
4	RNP APCH	TF	RW04	264129.71S 0151429.11E	Y	016.9 / 034	4.8	-	-	-	3.20 / 50	MAPt
5	RNP APCH	CF	LZM01	263836.98S 0151527.54E	Y	016.9 / 034	-	-	-	-	-	MATP
6	RNP APCH	DF	ETOPA	264926.26S 0150557.26E	N	-	-	L	-	-	-	IAF / MAHP

Hold Identification

Holding Fix	Latitude / Longitude	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude/ Level (FL/ft)	Maximum Holding Altitude/ Level (FL/ft)	Outbound time (min)	Direction of Turn
ETOPA	264926.26S 0150557.26E	107.0	124	240	4000	-	1	R

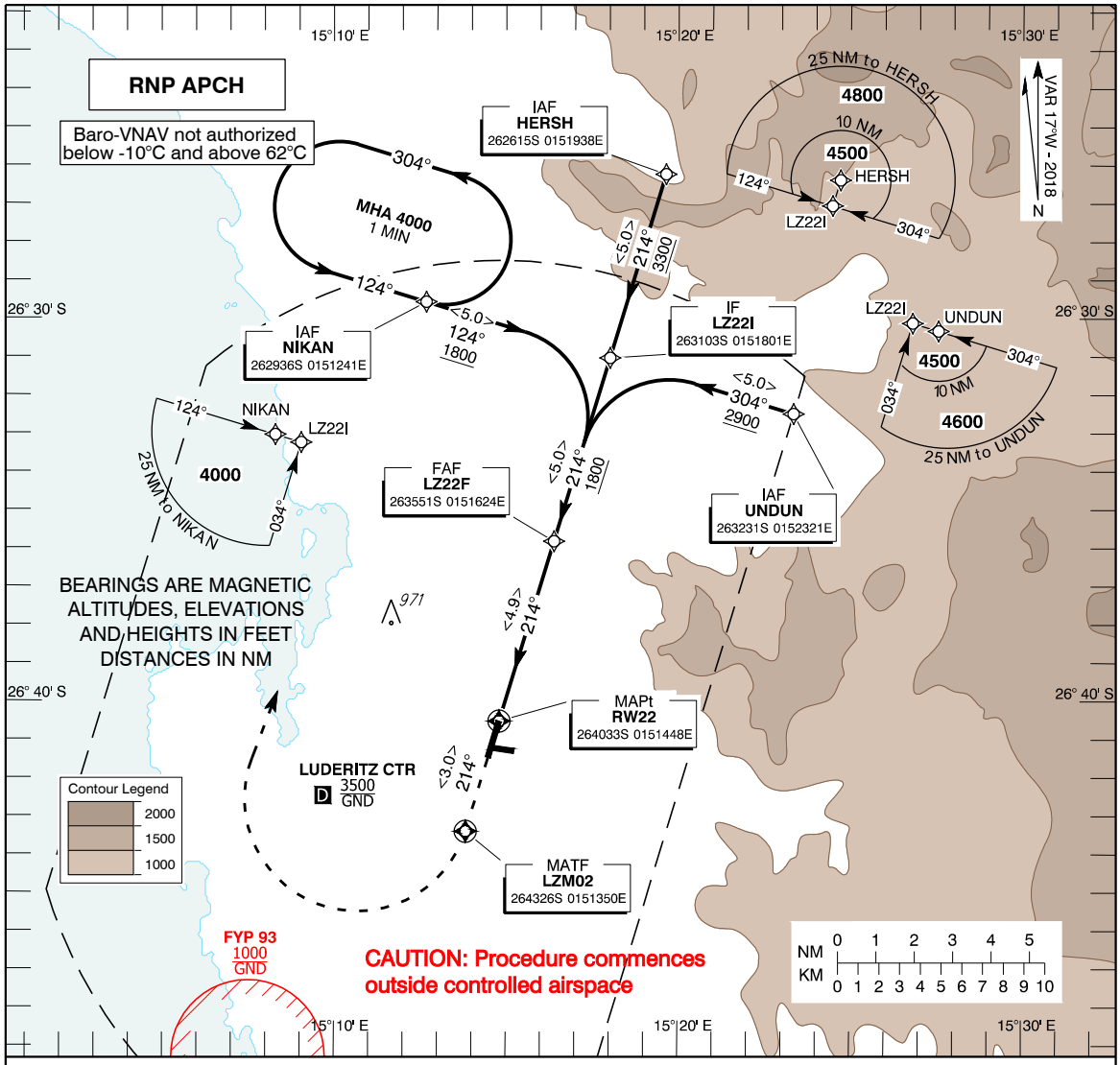
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **457 FT**
HEIGHT RELATED TO
THR RWY - **22** ELEV - **392 FT**

TWR	118.60
UNM	118.60

LUDERITZ (FYLZ)

RNP RWY 22



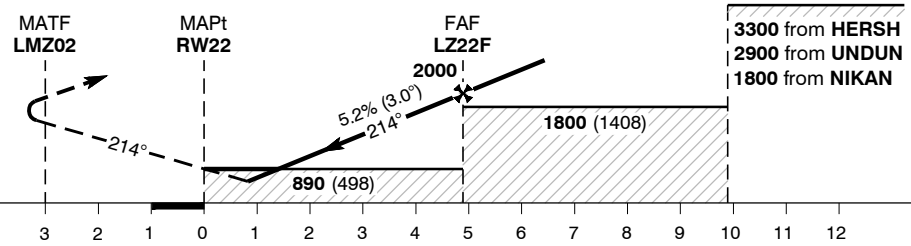
MISSED APPROACH:
Climb straight ahead.
At fly-over waypoint **LZM02** turn right direct to **NIKAN** to join the hold (MHA **4000**).

TRANSITION ALT **10000**

RDH 50

THR ELEV **392**

NM THR **RWY 22**



Aircraft CAT		A	B	C
MDA (OCH) VIS	LNAV	**890** (498) 2100		
	LNAV/VNAV	**780** (388) 1600	**790** (398) 1600	**800** (408) 1700
Distance to MAPt	NM	2	3	4
Altitude	FT	**1080** (688)	**1395** (1003)	**1715** (1323)

Ground Speed	KTS	80	100	120	140	160
Rate of Descent (3.0°)	FT/MIN	425	530	635	745	850

NOTES:
1. Track shortening inside IAF not permitted
2. Procedure commences outside controlled airspace.
3. Strong winds and severe sandstorms possible.
4. Broadcast intentions on 123.8MHz and 124.8MHz until established within CTR.
5. Visual segment penetrated - terrain left of track.
6. Descent gradient greater than 5.9% (3.4°) from UNDUN.

CHANGES: NEW

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	NIKAN	262935.63S 0151240.83E	-	-	-	-	- / 4000	-	-	IAF
2	RNP APCH	TF	LZ22I	263103.19S 0151800.77E	N	106.9 / 124	5.0	-	-	-	-	IF
3	RNP APCH	TF	LZ22F	263551.08S 0151623.54E	N	196.9 / 214	5.0	-	- / 2000	-	-	FAF
4	RNP APCH	TF	RW22	264032.81S 0151448.34E	Y	196.9 / 214	4.9	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	LZM02	264325.54S 0151349.94E	Y	196.9 / 214	-	-	-	-	-	MATP
6	RNP APCH	DF	NIKAN	262935.63S 0151240.83E	N	-	-	R	-	-	-	IAF / MAHP

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	HERSH	262615.30S 0151937.92E	-	-	-	-	- / 4500	-	-	IAF
2	RNP APCH	TF	LZ22I	263103.19S 0151800.77E	N	196.9 / 214	5.0	-	-	-	-	IF
3	RNP APCH	TF	LZ22F	263551.08S 0151623.54E	N	196.9 / 214	5.0	-	- / 2000	-	-	FAF
4	RNP APCH	TF	RW22	264032.81.S 0151448.34E	Y	196.9 / 214	4.9	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	LZM02	264325.54S 0151349.94E	Y	196.9 / 214	-	-	-	-	-	MATP
6	RNP APCH	DF	NIKAN	262935.63S 0151240.83E	N	-	-	R	-	-	-	IAF / MAHP

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	UNDUN	263230.56S 0152320.84E	-	-	-	-	- / 4500	-	-	IAF
2	RNP APCH	TF	LZ22I	263103.19S 0151800.77E	N	286.9 / 304	5.0	-	-	-	-	IF
3	RNP APCH	TF	LZ22F	263551.08S 0151623.54E	N	196.9 / 214	5.0	-	- / 2000	-	-	FAF
4	RNP APCH	TF	RW22	264032.81S 0151448.34E	Y	196.9 / 214	4.9	-	-	-	3.00 / 50	MAPt
5	RNP APCH	CF	LZM02	264325.54S 0151349.94E	Y	196.9 / 214	-	-	-	-	-	MATP
6	RNP APCH	DF	NIKAN	262935.63S 0151240.83E	N	-	-	R	-	-	-	IAF / MAHP

Hold Identification

Holding Fix	Latitude / Longitude	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude/ Level (FL/ft)	Maximum Holding Altitude/ Level (FL/ft)	Outbound time (min)	Direction of Turn
NIKAN	262935.63S 0151240.83E	107.0	124	240	4000	-	1	L

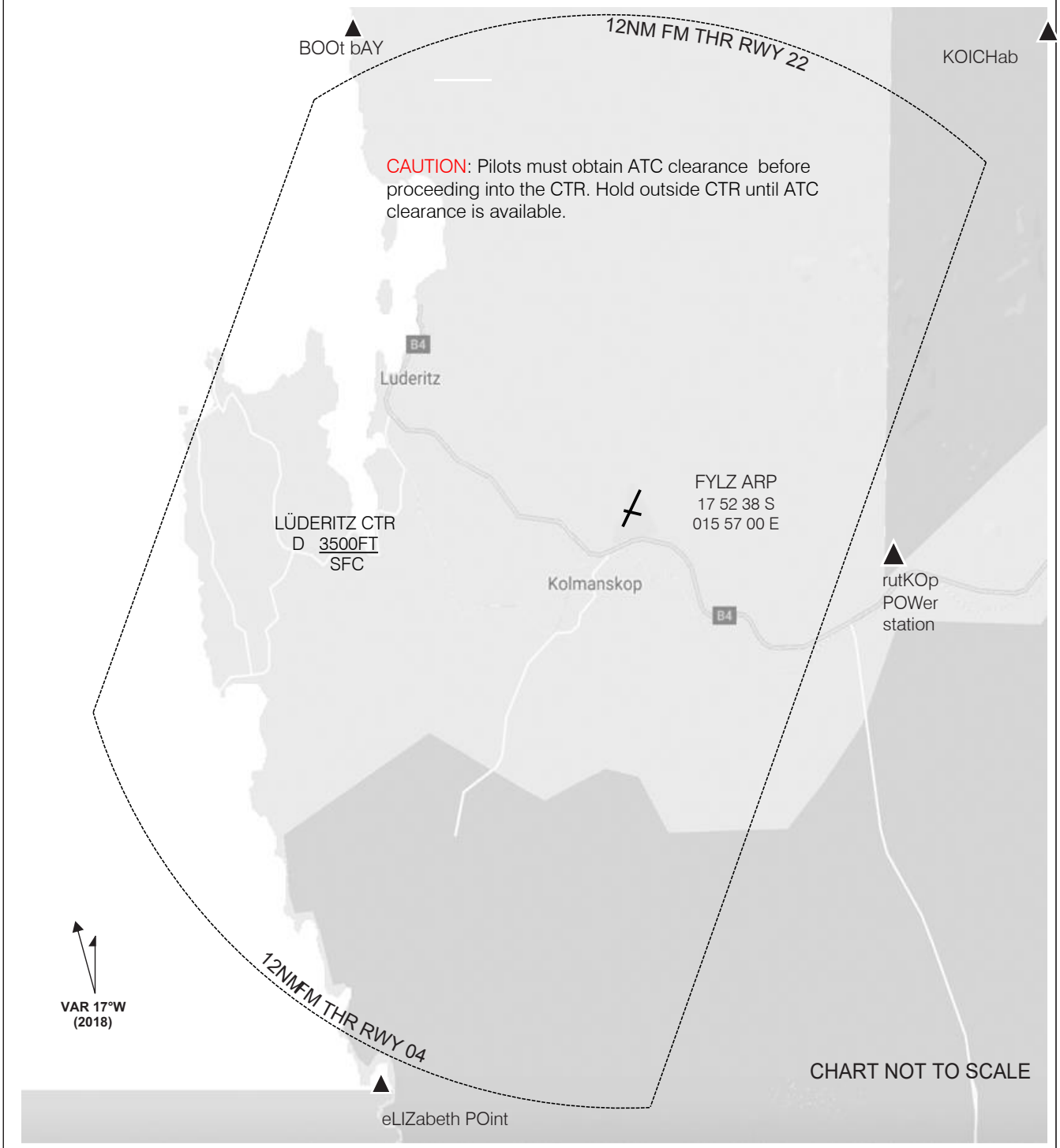
VISUAL APPROACH CHART - ICAO

AD ELEV - **457FT**
TA 10000FT

TWR 118.6
UNM 118.6

LÜDERITZ (FYLZ)

BEARINGS ARE MAGNETIC
ALTITUDES, ELEVATIONS
AND HEIGHTS IN FEET



CHANGES: NEW

FOR ADDITIONAL INFORMATION SEE VERSO

COM failure:
1. Squawk 7600
2. If possible CTC Lüderitz TWR on +264 63 202228
3. Aircraft to join overhead at 2500FT MSL
4. Observe and join the aerodrome traffic circuit
5. Make all turns left whenever possible
6. Watch for ATC light signals from TWR
7. Land as soon as possible and CTC ATC

WAYPOINTS

Waypoints	LAT/LONG	Must be spoken as
BOOAY	262733.00S 0150653.00E	BOOT BAY
LIZPO	265528.00S 0151126.00E	ELIZABETH POINT
KOICH	262555.00S 0152909.00E	KOICHAB SOUTH
KOPOW	264222.00S 0152150.00E	RUTKOP POWER STATION

AD 2. AERODROMES

FYML AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYML - Mariental Aerodrome

FYML AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP coordinates and site at AP*	243615S 0175530E
2.	*Direction and distance from (city)*	WNW 3 NM from Mariental
3.	*Elevation/reference temperature*	3 650 FT
4.	*MAG VAR/annual change*	15° W (2016)/ 0.05° decreasing
5.	*AD administration, address, telephone, telefax, telex, AFS*	CHF: DOT Namibia Private Bag 12003 Ausspannplatz Namibia Tel: (061) 23-9850 Telefax: (061) 23-8884/5 Telex: Nil facility AFS: Nil facility
6.	*Types of traffic permitted (IFR/VFR)*	VFR/IFR
7.	*Remarks*	Airfield Licence withdrawn

FYML AD 2.3 OPERATIONAL HOURS

Nil facilities available.

FYML AD 2.4 HANDLING SERVICES AND FACILITIES

Nil facilities available.

FYML AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	In town
2.	*Restaurants*	In town
3.	*Transportation*	Nil services
4.	*Medical facilities*	Hospital in town
5.	*Bank and post office*	In town
6.	*Tourist office*	Nil
7.	*Remarks*	Nil

FYML AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

Nil facilities available.

FYML AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYML AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Asphalt Strength: Nil info
2.	*Taxiway width, surface and strength*	Nil taxiways
3.	*ACL location and elevation*	Nil info
4.	*VOR/INS checkpoints*	Nil facilities
5.	*Remarks*	Nil

FYML AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil facilities
2.	*RWY and TWY markings and LGT*	RWY designators, THR, centre line
3.	*Stop bars*	Nil facilities
4.	*Remarks*	Nil

FYML AD 2.10 AERODROME OBSTACLES

In Approach/TKOF areas			In circling areas and at AP		Remarks
1			2		3
RWY/Area affected	*Obstacle Type Elevation Markings/ LGT*	*Coordinates*	*Obstacle type Elevation Markings/ LGT*	*Coordinates*	
a	b	c	a	b	
Nil info	Nil info	Nil info	Nil info	Nil info	Microwave tower 8 NM NNW Elev 4008 FT Radio mast 243900S 0180145E Height 68 FT Elev 3870 FT Mast top 3938 FT AMSL Day markings only

FYML AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Nil facilities
2.	*Hours of service* *MET office outside hours*	Nil facilities
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek
4.	*Type of landing forecast* *Interval of issuance*	Nil facilities
5.	*Briefing/consultation provided*	Nil facilities
6.	*Flight documentation* *Language(s) used*	Nil facilities English
7.	*Charts and other information available for briefing or consultation*	Nil facilities
8.	*Supplementary equipment available for providing information*	Nil facilities
9.	*ATS units provided with information*	Nil facilities
10.	*Additional information (limitation of service, etc.)*	Nil

Mean daily maximum and minimum temperatures (°C) for each month of the year												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Max	35.6	33.6	31.8	28.9	25.7	22.7	22.9	25.1	28.7	31.4	34.4	36.4
Min	18.5	19.4	16.2	11.4	6.5	2.8	2.0	3.4	7.4	11.1	13.7	17.6
Mean pressure for each month of the year at approximate the times of MAX and MIN temperatures in hPa												
Max	40.7	38.9	36.1	35.5	31.9	28.0	28.5	31.0	34.6	38.8	39.4	41.6
Min	10.3	12.9	7.0	2.9	-2.0	-4.2	-4.5	-5.3	-2.1	0.0	5.0	7.1
Relative and absolute humidity at approximately the times of MAX (a) and MNM (b) temperatures												
Rel(a)	25	35	36	29	26	26	24	22	19	18	17	21
% (b)	46	67	69	70	67	67	64	58	50	42	36	39

FYML AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE & MAG BRG*	*Dimensions of RWY (M)*	*Strength (LCN) and surface of RWY and SWY*	*THR Coordinates*	*THR Elevation and Highest Elevation of TDZ of Precision APP RWY*
1	2	3	4	5	6
01	Nil info	2000 x 25	LCN 35 Asphalt	Nil info	Nil info
19	Nil info	2000 x 25	LCN 35 Asphalt	Nil info	Nil info
12	Nil info	1500 x 30	LCN 15 GRAV	Nil info	Nil info
30	Nil info	1500 x 30	LCN 15 GRAV	Nil info	Nil info

Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	8	9	10	11	12
Nil info	Nil info	Nil info	Nil info	Nil info	Nil

FYML AD 2.13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
01	Nil info	2000	Nil info	Nil info	Nil
19	Nil info	2000	Nil info	Nil info	Nil
12	Nil info	1500	Nil info	Nil info	Nil
30	Nil info	1500	Nil info	Nil info	Nil

FYML AD 2.14 APPROACH AND RUNWAY LIGHTING

Nil facilities available.

FYML AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

Nil facilities available.

FYML AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYML AD 2.17 ATS AIRSPACE

1.	*Designation and lateral limits*	Nil ATS airspace
2.	*Vertical limits*	Nil ATS airspace
3.	*Airspace classification*	Nil ATS airspace
4.	*ATS unit call sign* *Language(s)*	Nil ATS airspace English
5.	*Transition altitude*	Nil ATS airspace
6.	*Remarks*	Nil

FYML AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
Unmanned	Mariental Traffic	124.8 MHZ	HJ	Nil

FYML AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	*ID*	*Frequency*	*Hours of Operation*	*Site of transmitting antenna coordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	2	3	4	5	6	7
NDB	MA	340 KHZ	H24	Nil info	Nil info	Range 80 NM

FYML AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

Aircraft must adhere to RWY's and TWY's and park in the parking area.

2. Taxiing to and from stands

Nil procedures.

3. Parking area for small aircraft (general aviation)

Nil procedures.

4. Parking area for helicopters

Nil procedures.

5. Apron - Taxiing during winter conditions

Nil limits.

6. Taxiing - Limitations

Nil limits.

7. School and training flights - Technical test flights - Use of runways

Nil training.

8. Helicopter traffic - Limitation

Nil limits.

9. Removal of disabled aircraft from runways

Nil procedures.

FYML AD 2.21 NOISE ABATEMENT PROCEDURES

Nil procedures.

FYML AD 2.22 FLIGHT PROCEDURES

Nil procedures.

FYML AD 2.23 ADDITIONAL INFORMATION

Nil.

FYML AD 2.24 CHARTS RELATED TO MARIENTAL

Nil charts available for Mariental Aerodrome.

AD 2. AERODROMES

FYMO AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYMO - Mokuti Lodge Aerodrome

FYMO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP coordinates and site at AP*	184852S 0170307E
2.	*Direction and distance from (city)*	South 500 M from the lodge
3.	*Elevation/reference temperature*	3 650 FT
4.	*MAG VAR/annual change*	9° W (2016)/ 0.13° decreasing
5.	*AD administration, address, telephone, telefax, telex, AFS*	Namibia Resorts International PO Box 2862 Windhoek Namibia Tel: (067) 229084 Telefax: (067) 234512 Telex: Nil facility AFS: Nil facility
6.	*Types of traffic permitted (IFR/VFR)*	VFR/IFR
7.	*Remarks*	Unlicensed Aerodrome Public category

FYMO AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	HJ
2.	*Customs and immigration*	Nil facilities
3.	*Health and sanitation*	Nil facilities
4.	*AIS briefing office*	Nil facilities
5.	*ATS reporting office (ARO)*	Nil facilities
6.	*MET briefing office*	Nil facilities
7.	*ATS*	Nil facilities
8.	*Fuelling*	0400 - 1600
9.	*Handling*	Nil facilities
10.	*Security*	Nil facilities
11.	*De-icing*	Nil facilities
12.	*Remarks*	Nil

FYMO AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	Nil facilities
2.	*Fuel/oil types*	AVGAS 100LL Sold in 200 L units by prior request
3.	*Fuelling facilities/capacity*	Drums Maximum 1 000 Litres
4.	*De-icing facilities*	Nil facilities
5.	*Hangar space for visiting aircraft*	15 M x 15 M
6.	*Repair facilities for visiting aircraft*	Nil facilities
7.	*Remarks*	Nil

FYMO AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	Yes
2.	*Restaurants*	Yes
3.	*Transportation*	Yes
4.	*Medical facilities*	Clinic
5.	*Bank and post office*	Nil facilities
6.	*Tourist office*	Yes
7.	*Remarks*	Nil

FYMO AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

Nil facilities available.

FYMO AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYMO AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Interlocking Strength: LCN 8
2.	*Taxiway width, surface and strength*	Width: Nil info Surface: Gravel Strength: LCN 8
3.	*ACL location and elevation*	Nil info
4.	*VOR/INS checkpoints*	Nil facilities
5.	*Remarks*	Nil

FYMO AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil facilities
2.	*RWY and TWY markings and LGT*	RWY marked 08/26
3.	*Stop bars*	Nil facilities
4.	*Remarks*	Nil

FYMO AD 2.10 AERODROME OBSTACLES

In Approach/TKOF areas			In circling areas and at AP		Remarks
1			2		3
RWY/Area affected	Obstacle Type Elevation Markings/ LGT	Co-ordinates	Obstacle type Elevation Markings/ LGT	Co-ordinates	
a	b	c	a	b	
Nil info	Nil info	Nil info	Nil info	Nil info	1. Lightning conductor 300 M north of RWY 2. Survey beacon 30 M AGL 300 M south of RWY 3. Fence N-S 188 M from THR RWY 08 Height 2.3 M

FYMO AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Nil facilities
2.	*Hours of service* *MET office outside hours*	Nil facilities
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek
4.	*Type of landing forecast* *Interval of issuance*	Nil facilities
5.	*Briefing/consultation provided*	Nil facilities
6.	*Flight documentation* *Language(s) used*	Nil facilities English
7.	*Charts and other information available for briefing or consultation*	Nil facilities
8.	*Supplementary equipment available for providing information*	Nil facilities
9.	*ATS units provided with information*	Nil facilities
10.	*Additional information (limitation of service, etc.)*	Nil

FYMO AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MAG BRG	Dimensions of RWY (M)	Strength (LCN) and surface of RWY and SWY	THR Co-ordinates	THR Elevation and Highest Elevation of TDZ of Precision APP RWY
1	2	3	4	5	6
08	Nil info	2200 x 30	LCN 8 HARD GRAV (1)	Nil info	Nil info
26	Nil info	2200 x 30	LCN 8 HARD GRAV	Nil info	Nil info

Slope of RWY-SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strip Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
Nil info	Nil info	Nil info	Nil info	Nil info	(1) 700m of RWY is Concrete

FYMO AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
08	Nil info	2200	Nil info	Nil info	Nil
26	Nil info	2200	Nil info	Nil info	Nil

FYMO AD 2.14 APPROACH AND RUNWAY LIGHTING

Nil facilities available.

FYMO AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

Nil facilities available.

FYMO AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYMO AD 2.17 ATS AIRSPACE

1.	*Designation and lateral limits*	Nil ATS airspace
2.	*Vertical limits*	Nil ATS airspace
3.	*Airspace classification*	Nil ATS airspace
4.	*ATS unit call sign* *Language(s)*	Nil ATS airspace English
5.	*Transition altitude*	Nil Info
6.	*Remarks*	Nil

FYMO AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
Unmanned	Mokuti Traffic	123.5 MHZ	HJ	Nil ATS - only arrival notification

FYMO AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Nil facilities available.

FYMO AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

1.1 Special instruction

a) AD borders on Etosha National Park. No aircraft may fly below 3000 FT AGL except for landing and take off.

b) In no wind conditions, land RWY 26 and take off RWY 08.

1.2 *Circuit procedure*

a) RWY 08 left.

b) RWY 26 right.

2. Taxiing to and from stands

Nil limits

3. Parking area for small aircraft (general aviation)

30 M x 30 M

4. Parking area for helicopters

Same as aircraft.

5. Apron - Taxiing during winter conditions

Nil limits.

6. Taxiing - Limitations

Nil limits.

7. School and training flights - Technical test flights - Use of runways

Nil training.

8. Helicopter traffic - Limitation

Nil limits.

9. Removal of disabled aircraft from runways

Nil procedures.

FYMO AD 2.21 NOISE ABATEMENT PROCEDURES

Nil procedures.

FYMO AD 2.22 FLIGHT PROCEDURES

Nil procedures.

FYMO AD 2.23 ADDITIONAL INFORMATION

Nil.

FYMO AD 2.24 CHARTS RELATED TO MOKUTI LODGE

Nil charts available for Mokuti Lodge Aerodrome

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AD 2. AERODROMES

FYOA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYOA - Ondangwa Aerodrome

FYOA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP coordinates and site at AD*	175238S 0155700E
2.	*Direction and distance from (city)*	NW 2 NM from Ondangwa
3.	*Elevation/reference temperature*	3 599 FT
4.	*Geoid undulation at AD Elevation PSN*	NIL INFO
5.	*MAG VAR/annual change*	8° W (2016)/ 0.15° decreasing
6.	*AD administration, address, telephone, telefax, telex, AFS*	Namibia Airports Company Limited The Airport Manager P.O Box 2649 Ondangwa AD Tel: +264 65 240476 Fax: +264 65 240534 AFS: FYOAYDYX
7.	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
8.	*Remarks*	Public aerodrome Designated point of entry/exit

FYOA AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	SUN-FRI: 0400-1730 SAT: 0400-1200
2.	*Customs and immigration*	MON-FRI: 0600 - 1500
3.	*Health and sanitation*	NIL
4.	*AIS briefing office*	NIL
5.	*ATS reporting office (ARO)*	NIL
6.	*MET briefing office*	SUN-FRI: 0400 – 1800 SAT: 0400 - 1300
7.	*ATS*	ATC HOD: MON-FRI: 0430 – 1730 SAT: 0500 -1200 SUN:0500 -1000 and 1300 – 1730
8.	*Fuelling*	MON-FRI: 0400 - 1700 SAT-SUN: NIL
9.	*Handling*	NIL
10.	*Security*	H24
11.	*De-icing*	NIL
12.	*Remarks*	Customs: Service Available on request during SAT & SUN at the following contact details: Tel: +264 65 22 9600/8 Mobile: +264 81 3441933/085 127 1999 Immigration: Tel: +264 65 241669 Cell: +264 81 2501397 / + 264 81 3067990 SAT, SUN, Public holidays and after-hours service is on request AIS: Tel: +264 61 702080/1/2/3 Fax: +264 61 702088 Meteorological Services: Tel/Fax: +264 65 240922 Air Traffic Services: Tel: +264 65 703190/1 Fax: +264 65 703199 AFS: FYOAZTZX Puma Energy (Refuelling) SAT, SUN, Public holidays and after-hours service are on request at the following contact details: Mobile: +264 811 293014 Tel: +264 65 241465

FYOA AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	NIL
2.	*Fuel/oil types*	AVGAS, Jet-A1
3.	*Fuelling facilities/capacity*	AVGAS Hydrant/23 000 litres Jet-A1 Hydrant/56 000 litres Jet-A1 Bowzer/5 000 litres
4.	*De-icing facilities*	NIL
5.	*Hangar space for visiting aircraft*	NIL
6.	*Repair facilities for visiting aircraft*	NIL
7.	*Remarks*	NIL

FYOA AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	In town
2.	*Restaurants*	On AD
3.	*Transportation*	Taxi and car rental
4.	*Medical facilities*	NIL
5.	*Bank and post office*	NIL
6.	*Tourist office*	NIL
7.	*Remarks*	Car rental: Avis Rent a Car: +264 65 241281/ +264 812934364, +264 815623112 Bidvest Car Rental:+264 811 248262/ +264 812897422 Europe Car Hire: +264 65 240 261/+264 811 424091 Hertz Rent a Car:+264 811 596332/+264 81 65241161 Profile Car Hire:+264 65 242136/+264 811 499773

FYOA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	CAT 5
2.	*Rescue equipment*	18 700 Litres of water 2 250 litres Foam 385 kg DCP
3.	*Capability for removal of disabled aircraft*	When an aircraft is disabled on a runway, it is the duty of the owner or user of such aircraft to have it removed as soon as possible. If a disabled aircraft is not removed from the runway as quickly as possible by the owner or user, the aircraft will be removed by the aerodrome operator at the owner's or user's expense.
4.	*Remarks*	NIL

FYOA AD 2.7 SEASONAL AVAILABILITY - CLEARING

NIL

FYOA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Asphalt Strength: Nil INFO available
2.	*Taxiway width, surface and strength*	Width: 15 M Surface: Asphalt Strength: NIL
3.	*ACL location and elevation*	NIL
4.	*VOR/INS checkpoints*	NIL
5.	*Remarks*	NIL

FYOA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	NIL
2.	*RWY and TWY markings and LGT*	RWY: Centre line, RWY edge markings, THR, TDZ, designators TWY: Centre line markings, holding positions at all RWY/TWY intersections
3.	*Stop bars*	Nil
4.	*Remarks*	Nil

FYOA AD 2.10 AERODROME OBSTACLES

In Approach/TKOF areas			*In circling areas and at AP*		*Remarks*
1			2		3
RWY/Area affected	Obstacle Type Elevation Markings/ LGT	Co-ordinates	Obstacle type Elevation Markings/ LGT	Co-ordinates	
a	b	c	a	b	

In Approach/TKOF areas			*In circling areas and at AP*		*Remarks*
1			2		3
RWY/Area affected	Obstacle Type Elevation Markings/ LGT	Co-ordinates	Obstacle type Elevation Markings/ LGT	Co-ordinates	
a	b	c	a	b	
08 APCH 26 TKOF	Security fence OBST unmarked Height in FT ALT: a) RWY 16/2 radio masts, height 800.8 M S of RWY 08/26 and 200 M right of extended centre line RWY 16	NIL	NIL	NIL	NIL
26 APCH 08 TKOF	b) NDB masts 80 high, 650 M E of TWR, 540 M S of RWY 08/26	NIL			
	c) Radio mast 80 high at radar site N of RWY 08/26	NIL			

In Approach/TKOF areas			In circling areas and at AP		Remarks
1			2		3
RWY/Area affected	*Obstacle Type Elevation Markings/ LGT*	*Co-ordinates*	*Obstacle type Elevation Markings/ LGT*	*Co-ordinates*	
a	b	c	a	b	
26 APCH 08 TKOF	d) Water tower on extended centre line RWY 08, 1.4 NM THR 26, 100 high	NIL	NIL	NIL	NIL
	e) Water tower 100 high, 500 M E of TWR, 500 M S of RWY 08/26	NIL			
	f) Water tower 150 high, 600 M E of TWR, 900 S of RWY 08/26	NIL			
	g) Windsock	NIL			

	opposite TWR 40 high				
	h) Security fence 1.8M in take-off/landing path RWY 08/26, erected around the airport	NIL			

FYOA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Windhoek
2.	*Hours of service* *MET office outside hours*	Windhoek
3.	*Office responsible for TAF preparation* *Periods of validity*	MON – FRI: Summer: 0730 - 1700 Winter: 0630 - 1630 SAT: NIL service SUN: Summer: 0730 – 1700 Winter: 0630 - 1630
4.	*Type of landing forecast* *Interval of issuance*	HKIA Short TAF – 3Hrs Long TAF – 6 Hrs
5.	*Briefing/consultation provided*	TREND Every hour
6.	*Flight documentation* *Language(s) used*	P, T NIL
7.	*Charts and other information available for briefing or consultation*	PL, TB English
8.	*Supplementary equipment available for providing information*	S3, U85, U7, U5, U2, P5
9.	*ATS units provided with information*	Nil supplementary equipment
10.	*Additional information (limitation of service, etc.)*	Windhoek FIC

FYOA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (LCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR Elevation and Highest Elevation of TDZ of Precision APP RWY
1	2	3	4	5	6
08	066.55°	2824 x 45	PCN 40 Asphalt	175301.85S 0155623.56E GUND 21.1 M	3599 FT
26	245.55°	2824 x 45	PCN 40 Asphalt	175221.81S 0155755.55E GUND 21.1 M	3599 FT

Slope of RWY-SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strip Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
Nil info	0	0	Nil info	Nil info	Nil info

FYOA AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
08	Not Determined	Not Determined	Not Determined	Not Determined	THR RWY 08 displaced by 163M, total RWY Length is 2824M.
26	Not Determined	Not Determined	Not Determined	Not Determined	NIL

FYOA AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT)PAPI	TDZ, LGT, LEN	RWY CL LGT LEN, spacing, colour INTST
1	2	3	4	5	6
08	NIL info	Bi-directional high intensity	PAPI (left)	NIL	NIL info
26	NIL info	Bi-directional high intensity	PAPI (left)	NIL	NIL info

RWY edge LGT LEN spacing colour INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
7	8	9	10
Bi-directional high INTST 60M	Bi-directional high intensity	NIL	NIL
Bi-directional high INTST 60M	Bi-directional high intensity	NIL	NIL

FYOA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	*ABN/IBN location, characteristics and hours of operation*	ABN: At TWR building
2.	*LDI location and LGT*	NIL information AVBL
3.	*TWY edge and centre line lighting*	Edge: Retro-reflective markers main TWY
4.	*Secondary power supply/switch-over time*	Generator (Substation)/ 14 seconds
5.	*Remarks*	All airfields can operate (switch on/off) on remote by ATC or local/manual in the substation

FYOA AD 2.16 HELICOPTER LANDING AREA

Nil information AVBL

FYOA AD 2.17 ATS AIRSPACE

1.	*Designation and lateral limits*	Ondangwa CTR: Lateral limits 174638.49S 0154543.70E - 174028.05S 0155954.91E - clockwise along the arc of a circle, radius 12NM, centred at 175221.81S 0155755.55E - 175844.36S 0160836.27E - 180455.53S 0155423.66E - clockwise along the arc of a circle, radius 12NM, centred at 175301.85S 0155623.56E, to point of origin
2.	*Vertical limits*	SFC to 5500 FT MSL
3.	*Airspace classification*	D
4.	*ATS unit call sign* *Language(s)*	Ondangwa Tower English
5.	*Transition altitude*	10 000 FT MSL
6.	*Remarks*	AD Control

FYOA AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
Tower	Ondangwa Tower	125.6 MHz	MON-FRI: 0500 – 1800 SAT: 0500 – 1400 SUN: 0500 – 1000 and 1300 - 1730	Tower HOD, refer to AD 2.3

FYOA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	ID	Frequency	Hours of Operation	Position of transmitting antenna co-ordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME (8°W/2019)	OAV	116,3 MHz CH110X	H24	175243.33S 0155652.98E	3627 FT	
RNP APCH	N/A	1575.42MHz	H24	N/A	N/A	Transmitting antennas are satellite based

FYOA AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

All pilots operating at Ondangwa aerodrome must wear a lime green reflective jacket depicting their airlines concerned on the rear of the jacket for safety reasons as well as easy identification.

2. Taxiing to and from stands

a) Day light operations

- Pilots cleared to take-off on runway 08, may exit the apron via intersection Bravo to enter the runway so as to proceed west to threshold 08.
- Pilots cleared to take-off on runway 26, may exit the apron via intersection Charlie to enter the runway so as to proceed east to threshold 26.
- Pilots landing on runway 26 may proceed to intersection Bravo or Charlie to enter the apron.
- Pilots landing on runway 08 can exit the runway using intersections Bravo or Charlie to enter the apron

b) Night operations

Not applicable

3. Parking Area for small aircraft (General Aviation)

General aviation aircraft shall be guided by Marshallers to the parking area for small aircraft.

4. Parking Area for Helicopters.

No designated parking area for Helicopters. All Helicopters will park on the apron as directed by ATC.

5. Apron – Taxing during winter conditions.

Not applicable.

6. Taxiing - limitations

The maximum allowable taxing speed at Ondangwa Airport is 16 km/h due to inadequate radii of the taxiway-turning curve.

7. School and training flights — technical test flights — use of runways

Not applicable

8. Helicopter traffic — limitation

NIL

FYOA AD 2.21 NOISE ABATEMENT PROCEDURES

Nil procedures

FYOA AD 2.22 FLIGHT PROCEDURES

Radio Communication Failure (RCF)

a) Aircraft to join overhead the Aerodrome at 2000FT AGL

b) Observe and join the Aerodrome TFC

c) Make all turns to the left whenever possible

d) Land as soon as possible and report to the ATC

RNP RWY 08 - Due to displaced THR Baro-VNAV not authorised X LNAV MDA (OCH) increased to 4100 (501) FT

FYOA AD 2.23 ADDITIONAL INFORMATION

Nil Information

FYOA AD 2.24 CHARTS RELATED TO ONDANGWA

	Page
Aerodrome Chart – ICAO – Reserved	AD 2-13
Instrument Approach Chart – Reserved	AD 2-15
Instrument Approach Chart – Reserved	AD 2-17
Instrument Approach Chart – ICAO RNP RWY 08	AD 2-19
Instrument Approach Chart – ICAO RNP RWY 26	AD 2-21

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Aerodrome Chart – ICAO - RESERVED

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Instrument Approach Chart – ICAO - RESERVED

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Instrument Approach Chart – ICAO - RESERVED

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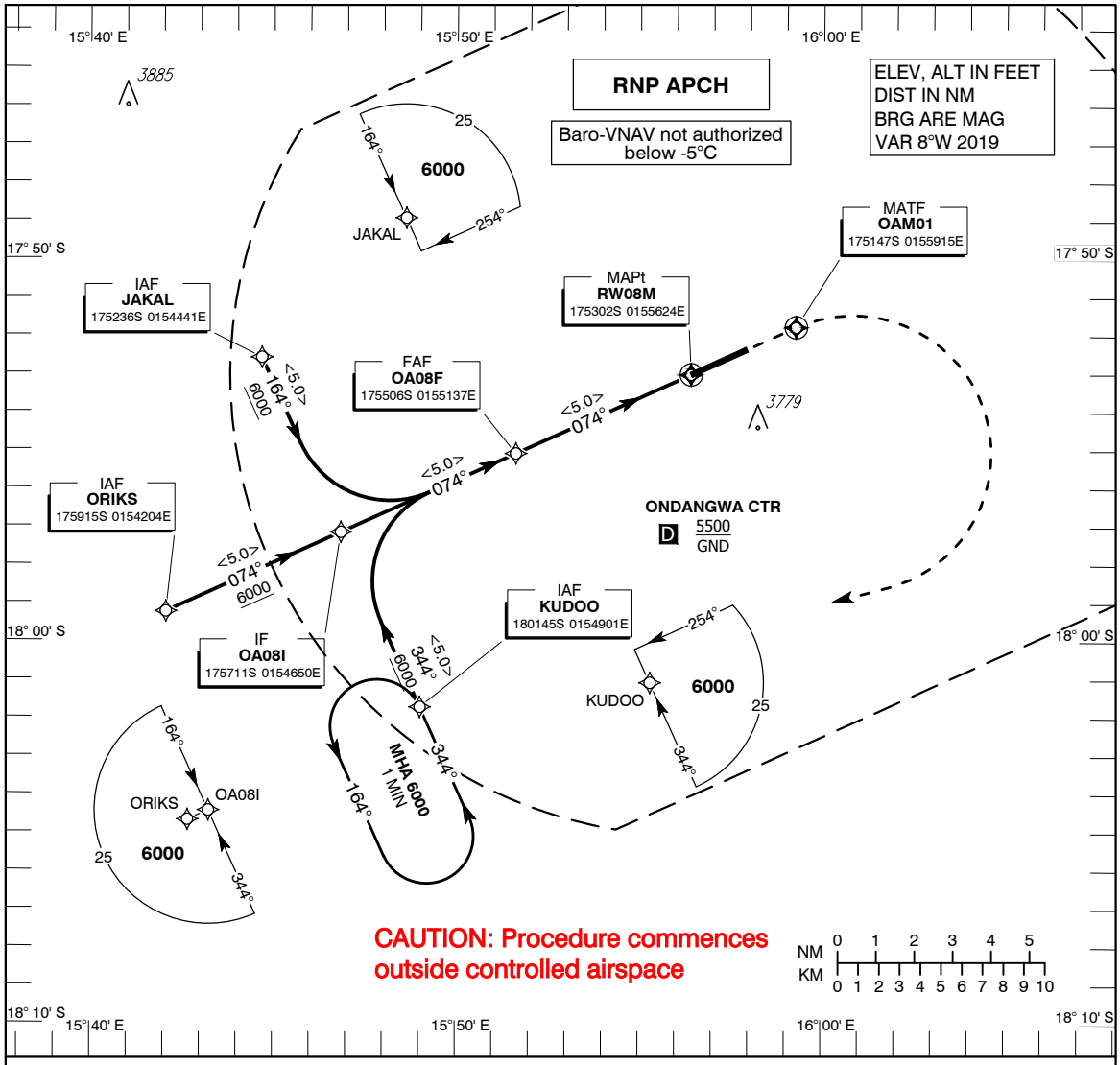
INSTRUMENT APPROACH CHART - ICAO

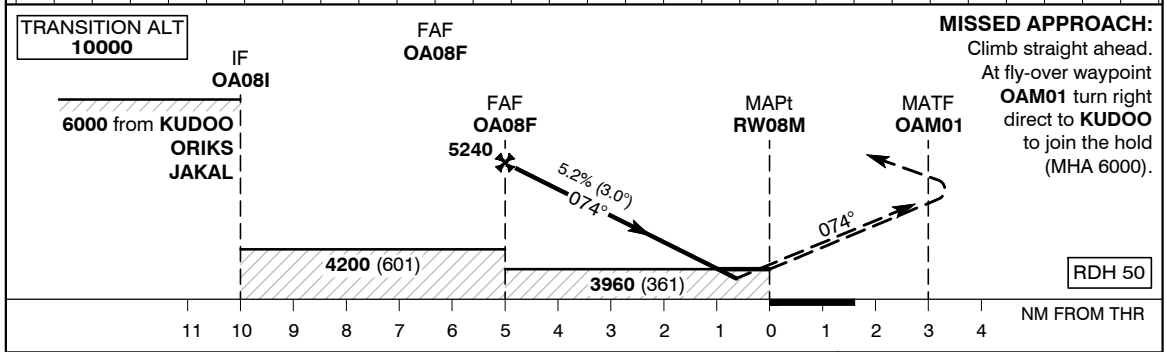
AERODROME ELEV - **3599 FT**
HEIGHT RELATED TO
THR RWY - **08** ELEV - **3599 FT**

TWR 125.60

ONDANGWA (FYOA)

RNP RWY 08





Aircraft cat		A	B	C	D
OCA (OCH)	LNAV/VNAV	3850 (251)	3860 (261)	3870 (271)	3880 (281)
	LNAV	3960 (361)			
Distance to MAPt	NM	5	4	3	2
Altitude	FT	5240 (1641)	4920 (1321)	4600 (1001)	4290 (691)
Ground Speed	KTS	80	100	120	140	160
Rate of Descent (3°)	FT/MIN	425	531	637	743	849

NOTE:
1. Track shortening inside IAF not permitted

Changes: CTR vertical limit updated, MDA text replaced with OCA, visibility text removed.

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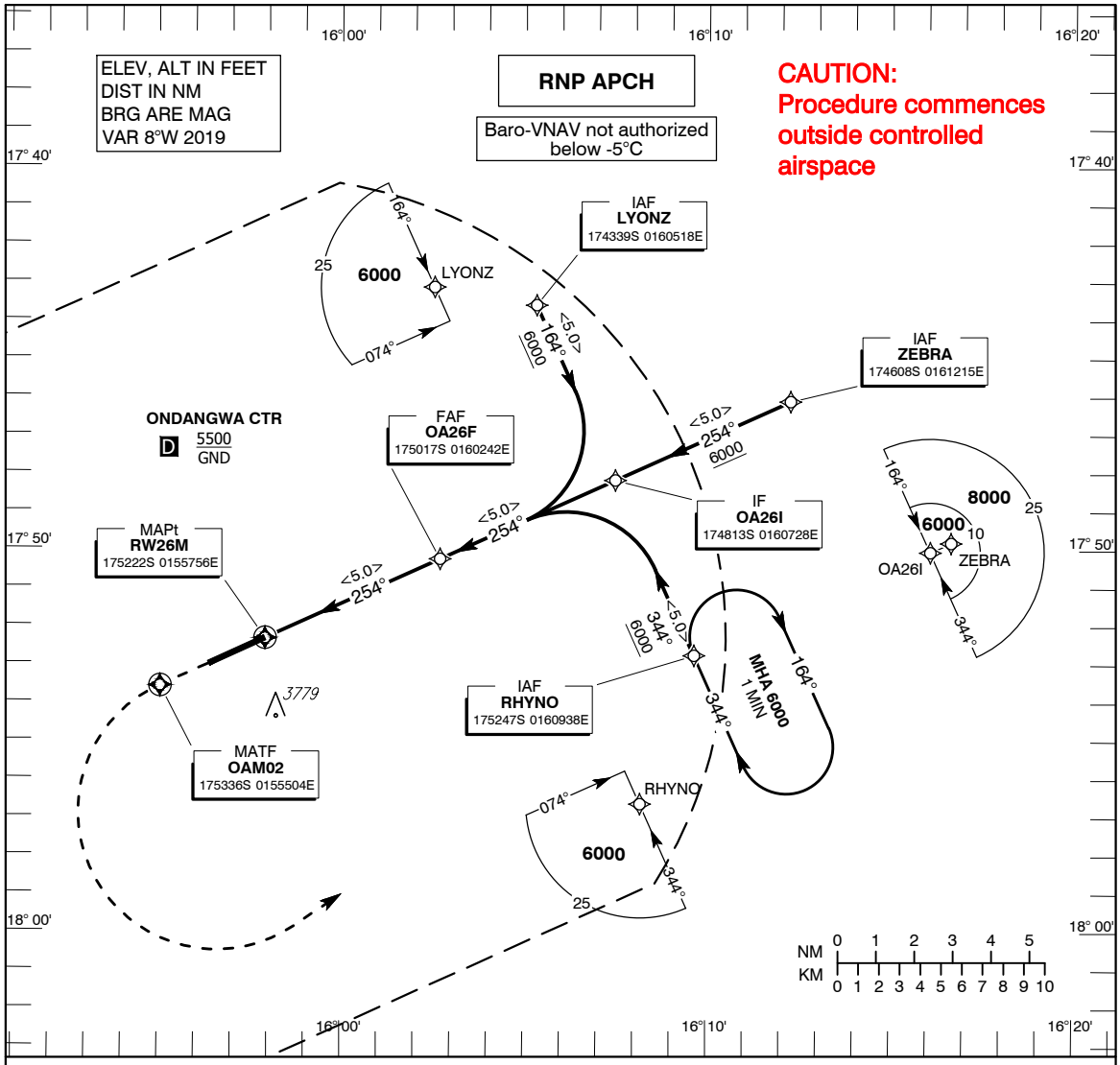
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **3599 FT**
HEIGHT RELATED TO
THR RWY - **26** ELEV - **3599 FT**

TWR 125.60

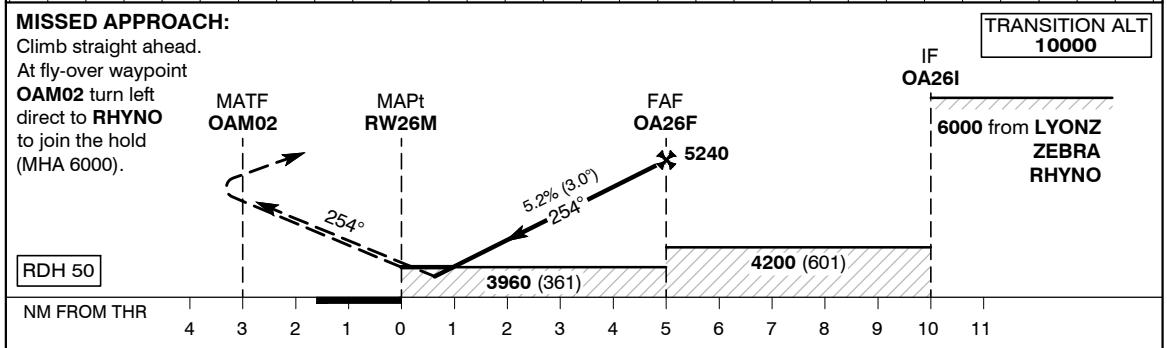
ONDANGWA (FYOA)

RNP RWY 26



MISSED APPROACH:
Climb straight ahead.
At fly-over waypoint **OAM02** turn left direct to **RHYNO** to join the hold (MHA 6000).

TRANSITION ALT **10000**



Aircraft cat		A	B	C	D
OCA (OCH)	LNAV/VNAV	3850 (251)	3860 (261)	3870 (271)	3880 (281)
	LNAV	3960 (361)			
Distance to MAPt	NM	5	4	3	2
Altitude	FT	4290 (691)	4600 (1001)	4920 (1321)	5240 (1641)
Ground Speed	KTS	80	100	120	140	160
Rate of Descent (3°)	FT/MIN	425	531	637	743	849

NOTE:
1. Track shortening inside IAF not permitted

Changes: CTR vertical limit updated, MDA text replaced with OCA, visibility text removed.

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AD 2. AERODROMES

FYOG AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYOG - Oranjemund Aerodrome

FYOG AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP coordinates and site at AD*	283505.3S 0162646.9E
2.	*Direction and distance from (city)*	SSE 2 NM from Oranjemund
3.	*Elevation/reference temperature*	13FT/NIL INFO AVBL
4.	*Geoid undulation at AD ELEV PSN*	32M
5.	*MAG VAR/annual change*	19ºW (2016)
6.	*AD administration, address, telephone, telefax, telex, AFS*	CHF: Namdeb Diamond Corporation (Pty) Ltd. PO Box 35 Oranjemund Tel: +264(0) 63 237 051 Telefax: +264 (0) 63 237 710 E-mail: travel@namdeb.com.na Telex: NIL AFS: NIL
7.	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
8.	*Remarks*	1. Private aerodrome located in a restricted area. 2. 24 HR PPR and landing fees are charged. 3. Security Clearance is required for visiting the Town. Contact permit office at +264 (0) 63 236100 4. For landing permission, all operators are to contact Namdeb Travel Office at travel@namdeb.com or Tel +264 (0) 63 237051 or Fax +264 (0) 63 237710 5. All fees payable in cash. NIL credit card facilities. Note: No aircraft will be released unless all fees are paid.

FYOG AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	MON TIL FRI BTN 0530-1100 & 1200-1430, Weekends and public HOL Closed.
2.	*Customs and Immigration*	Immigration PN: TEL: +264-63-232 756 Fax: +264-63-234266 Fax-Email +264 88628119 Customs: PN: TEL: +264 63 233 552, Fax: +264 63 233 483
3.	*Health and sanitation*	NIL

4.	*AIS briefing office*	NIL
5.	*ATS reporting office (ARO)*	NIL
6.	*MET briefing office*	NIL
7.	*ATS*	See AD 2.18
8.	*Fuelling*	PN, Mobile +264 81 220 7422 & +264 81 150 2478
9.	*Handling*	NIL
10.	*Security*	NIL
11.	*De-icing*	NIL
12.	*Remarks*	Night operations is for Emergencies only and PPR required.

FYOG AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	NIL
2.	*Fuel/oil types*	Jet only, NIL AVGAS
3.	*Fuelling facilities/capacity*	Southern Energy Company P.O Box 1228 Walvis Bay Refueller: Ruben Swartbooi Mobile: +264 81 771 5798 Office: +264 63 230006 Standby Cellphone: +264 81 150 2478 Controlling Office Tel: +264 64 203951 (office hours) Fax: +264 64 203984 Cell: +264 81 142 9958 Email: ecbconsulting@outlook.com 80 000 litres
4.	*De-icing facilities*	NIL
5.	*Hangar space for visiting aircraft*	NIL
6.	*Repair facilities for visiting aircraft*	NIL
7.	*Remarks*	NIL

FYOG AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	Guest houses – OMD telephone directory
2.	*Restaurants*	In town
3.	*Transportation*	NIL facilities
4.	*Medical facilities*	Hospital in town (+264-63-238000)
5.	*Bank and post office*	In town
6.	*Tourist office*	NIL facilities
7.	*Remarks*	PPR from Security before entry to Town area (+264-63-236100)

FYOG AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	CAT 4
2.	*Rescue equipment*	6500 litres of water 2000 litres/min @12Bar Foam: AFFF 3% all-purpose foam, 1800 litres/nm @ 11Bar, Range 25m Powder: 250kg DCP, 100kg/nm Range 9m Additional 50000 litres water tank for refuelling
3.	*Capability for removal of disabled aircraft*	Available
4.	*Hours of service*	MON-FRI: Office Hours 0530 till 1430. On public HOL and weekends only for scheduled flights. For all after hours flights prior notice is required and after-hours fee will apply.
5.	*Remarks*	There is fire fighting capacity in town that could be called on in an emergency. Fire Tender onsite during hours of operation. After hours, weekends and public holidays prior notification is required. For requirements outside published hours a nominal service fee will be levied.

FYOG AD 2.7 SEASONAL AVAILABILITY - CLEARING

NIL facilities available.

FYOG AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Concrete/Asphalt Strength: PCN 15/R/C/W/T
2.	*Taxiway width, surface and strength*	TWY Alpha, TWY Bravo, TWY Charlie: PCN 14/F/C/Y/T TWY Delta (South of Bravo) 19M/Asphalt/PCN/11/F/C/Y/T
3.	*ACL location and elevation*	NIL information available
4.	*VOR/INS checkpoints*	NIL information available
5.	*Remarks*	Restricted area, no ACFT allowed to park at northern side of the apron behind the yellow line.

FYOG AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	NIL information available
2.	*RWY and TWY markings and LGT*	RWY designators, centre line marking and edge LGT and threshold LGT
3.	*Stop bars*	NIL information available
4.	*Remarks*	NIL

FYOG AD 2.10 AERODROME OBSTACLES

OBST ID/ Designation	*OBST Type*	*OBST position*	*ELEV/HGT FT*	*Markings / Type, Colour*	*Remarks*
a	b	c	d	e	f
Radio Mast 1	Mast	283323.48395S 0162412.96614E	68/181	Day and Night, Red and White	On Western edge of town
Radio Mast 2	Mast	283327.57008S 0162517.66054E	67/197	Day and Night, Red and White	On Southern edge of town
Radio Mast 3	Mast	283720.66016S 0162613.04100E	34/109	NIL	SW of airfield on the coast

FYOG AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	NIL facilities
2.	*Hours of service* *MET office outside hours*	NIL facilities
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek Tel: +264 62 540327/ 540059
4.	*Type of landing forecast* *Interval of issuance*	NIL facilities
5.	*Briefing/consultation provided*	NIL facilities
6.	*Flight documentation* *Language(s) used*	NIL facilities English
7.	*Charts and other information available for briefing or consultation*	NIL facilities
8.	*Supplementary equipment available for providing information*	NIL facilities
9.	*ATS units provided with information*	NIL facilities
10.	*Additional information (limitation of service, etc.)*	Limited MET can be provided during working hours on 123.50 MHz (Oranjemund Base) company frequency. Approximately 50 NM radius

FYOG AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE BRG*	*Dimensions of RWY (M)*	*Strength (PCN) and surface of RWY and SWY*	*THR Co-ordinates* *RWY END co-ordinates* *THR Geoid undulation*	*THR Elevation and Highest Elevation of TDZ of Precision APP RWY*
1	**2**	**3**	**4**	**5**	**6**
02	000°	1600 x 30M	PCN 14/F/C/Y/T, Asphalt	283531S 0162647E GUND 32M -	13FT
20	180°	1600 x 30M	PCN 14/F/C/Y/T, Asphalt	283439S 0162647E GUND-32M -	13FT

Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	**8**	**9**	**10**	**11**	**12**
0.6429% down in the direction of RWY 02	60M	100 M	NIL info	NIL info	
0.6429% down in the direction of RWY 02	60M	100 M	NIL info	NIL info	

FYOG AD 2.13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	**2**	**3**	**4**	**5**	**6**
02	1600	1700	1600	1600	NIL
20	1600	1700	1600	1600	NIL

FYOG AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	*APCH LGT type LEN INTST*	*THR LGT colour WBAR*	*VASIS (MEHT) PAPI*	*TDZ, LGT, LEN*	*RWY Centre line LGT length, spacing, colour, INTST*
1	**2**	**3**	**4**	**5**	**6**
02	NIL	Green	NIL	NIL	NIL
20	NIL	Green	PAPI 3°	NIL	NIL

RWY edge LGT LEN spacing colour INTST	*RWY End LGT colour WBAR*	*SWY LGT LEN (M) colour*	*Remarks*
7	**8**	**9**	**10**
White 100M Yellow last 600 metres for RWY 02 and 20	Red	NIL	RWY LGT AVBL: PPR. For night OPS(+264-63-236000)
White 100M	Red	NIL	During office hours(+264-63-237700)

FYOG AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

Secondary power is available in the form of a generator that automatically starts in the event of a power failure. Switch over time is 15 seconds.

FYOG AD 2.16 HELICOPTER LANDING AREA

To use RWY and Taxi/ Air Taxi onto Apron.

FYOG AD 2.17 ATS AIRSPACE

NIL

FYOG AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Cal sign*	*Frequency*	*Hours of Operation*	*Remarks*
1	**2**	**3**	**4**	**5**
ATIS	ATIS	127.15MHz	NIL	TEL:+26463 237704
Traffic in the FYOG circuit to follow TIBA procedures due to the withdrawal of ATS from FAAB. FAAB Frequency 118.7 MHZ has been retained as primary frequency for FYOG.				

FYOG AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	ID	Frequency	Hours of Operation	Position of transmitting antenna co-ordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
RNP APCH	N/A	1575.42MHz	H24	N/A	N/A	Transmitting antennas are satellite based

FYOG AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

1.1 Warning: Blasting: Pilots are warned to avoid flying below 1500 FT along the coast between Oranjemund AD and Chamais Bay where blasting may take place at irregular intervals.

1.2 Occasional blastingon the northern bank of the Orange River from FYOG aerodrome to Sendelings Drift. Aircraft to remain clear of area and do not overfly less than 1500ft

1.3 Navigation Warning: Low level helicopter operations outside ATA operating on 124.8 MHZ. Doing ship service.

2. Taxiing to and from stands

NIL information available.

3. Parking area for small aircraft.

In front of the Terminal

4. Parking area for helicopters

NIL information available.

5. Apron - Taxiing during winter conditions

NIL information available.

6. Taxiing - Limitations

NIL information available.

7. School and training flights - Technical test flights - Use of runways

NIL information available

8. Helicopter traffic - Limitation

See AD 2.20 para 1, sub-para 1.3.

9. Removal of disabled aircraft from runways

Available

FYOG AD 2.21 NOISE ABATEMENT PROCEDURES

Avoid flights over Town

FYOG AD 2.22 FLIGHT PROCEDURES

Pilots are requested to avoid overflying the Ramsar Nature site from the Orange River mouth to the Border Bridge.

FYOG AD 2.23 ADDITIONAL INFORMATION

Sporadic large birds activities due to proximity to Riverine Ramsar site and Coastal Environment. Pilots to exercise Caution.

FYOG AD 2.24 CHARTS RELATED TO ORANJEMUND

	Page
Instrument Approach Chart – ICAO RNP RWY 02	FYOG AD 2-9
Instrument Approach Chart – ICAO RNP RWY 20	FYOG AD 2-11

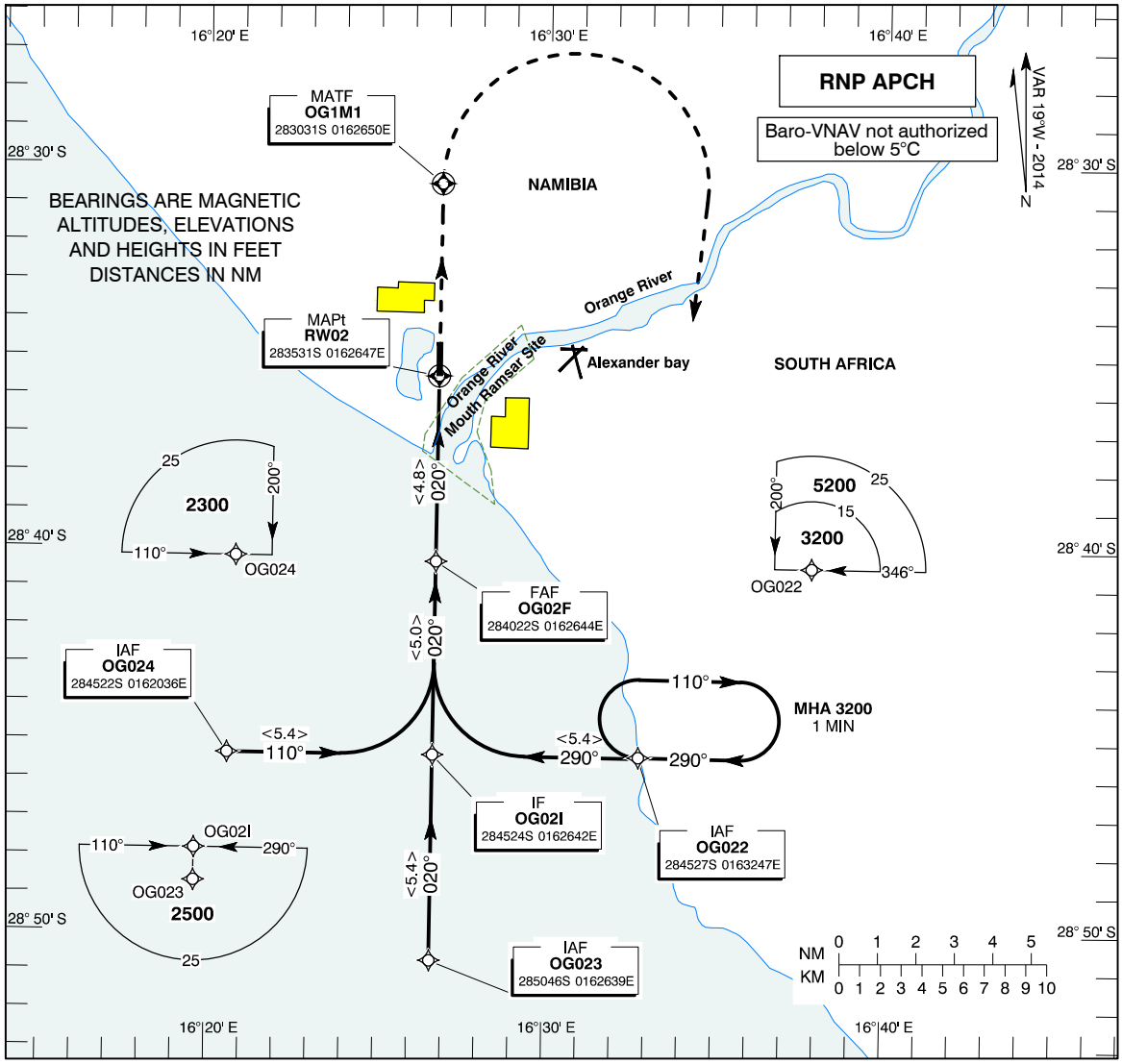
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **13 FT**
HEIGHT RELATED TO
THR RWY - **02** ELEV - **13 FT**

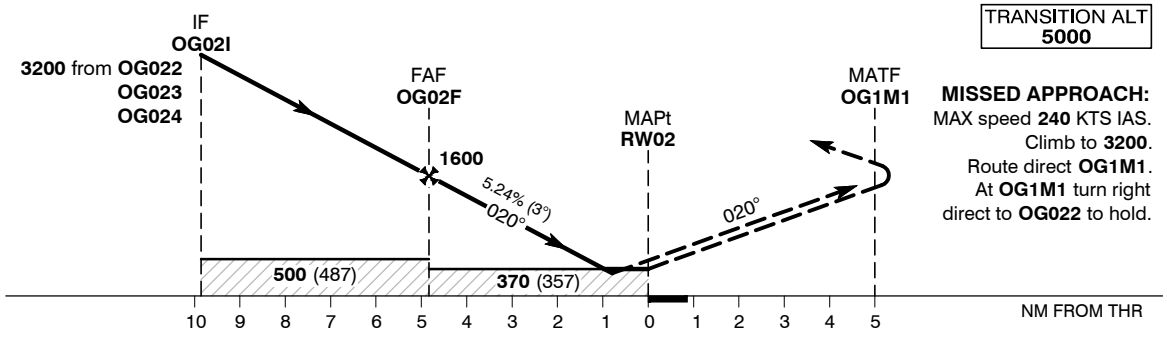
ALEXANDER BAY	118.70
AWIS	127.15

ORANJEMUND (FYOG)

RNP RWY 02



TRANSITION ALT
5000



MISSED APPROACH:
MAX speed **240** KTS IAS.
Climb to **3200**.
Route direct **OG1M1**.
At **OG1M1** turn right
direct to **OG022** to hold.

Aircraft cat		A	B	C
MDA (OCH) RVR/ALS OUT	LNAV/VNAV	320 (300) 1500	320 (300) 1500	320 (300) 1800
	LNAV	370 (357) 1500	370 (357) 1500	370 (357) 1800

Distance to MAPt	NM	4.8	4	3	2	1	
Altitude	FT	1600 (1587)	1350 (1337)	1030 (1017)	710 (697)	390 (377)	
Ground Speed	KTS	80	100	120	140	160	180
FAF to MAPt	M:SEC	3:45	3:00	2:30	2:09	1:53	1:40
Rate of Descent (3°)	FT/MIN	430	530	640	740	850	960

NOTES:
1. Sporadic large birds activity in the vicinity of Aerodrome.
2. Pilots are requested to avoid overflying the Ramsar Nature Site from the Oranje River Mouth to the Border Bridge.

COMMUNICATION FAILURE PROCEDURE:
Squawk 7600. Follow the Missed Approach Procedure to OG022. Enter the Hold at OG022. Hold for 5 mins, then complete the Approach.

CHANGES: Scale removed

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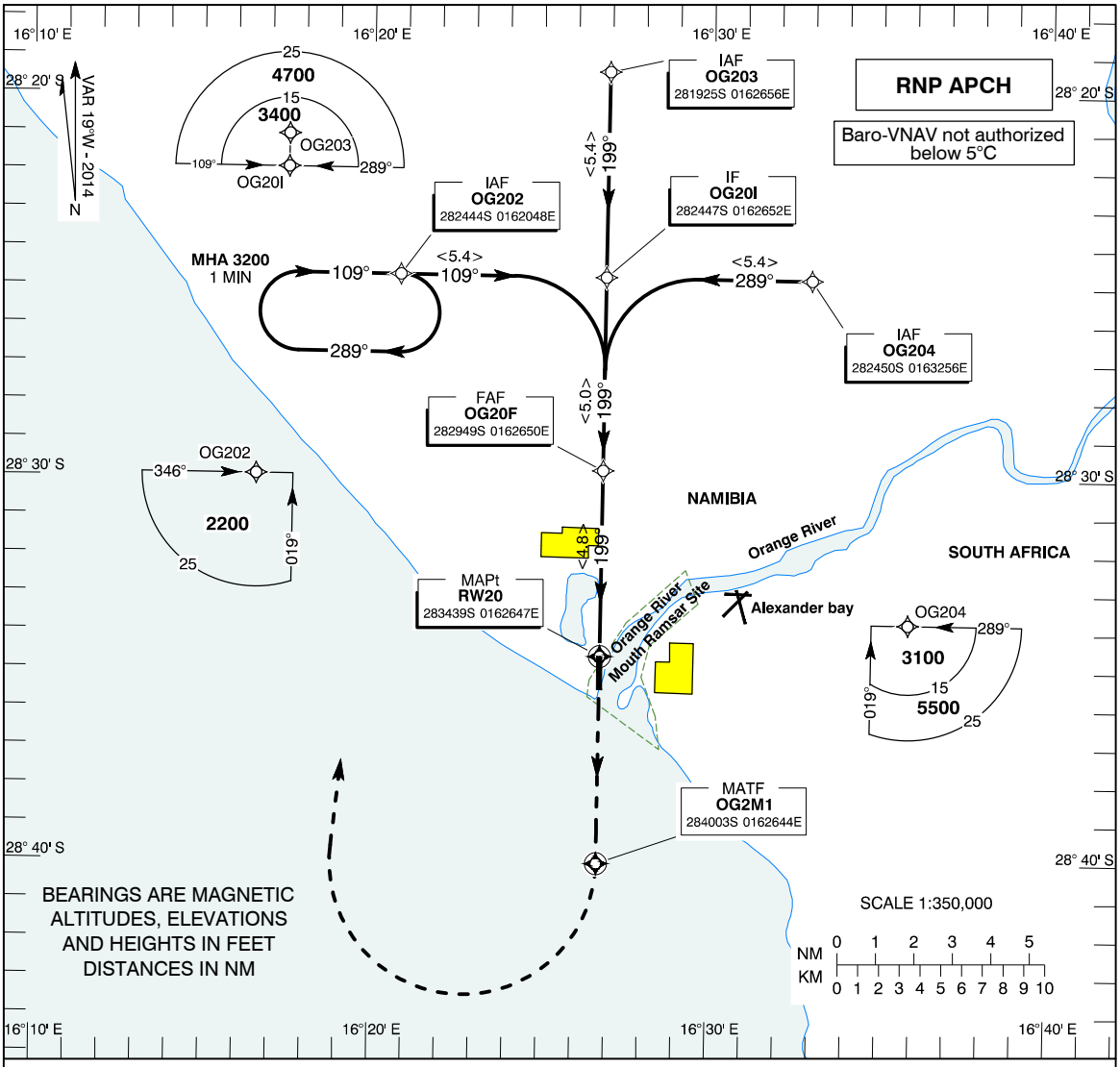
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **13 FT**
HEIGHT RELATED TO
THR RWY - **20** ELEV - **13 FT**

ALEXANDER BAY	118.70
AWIS	127.15

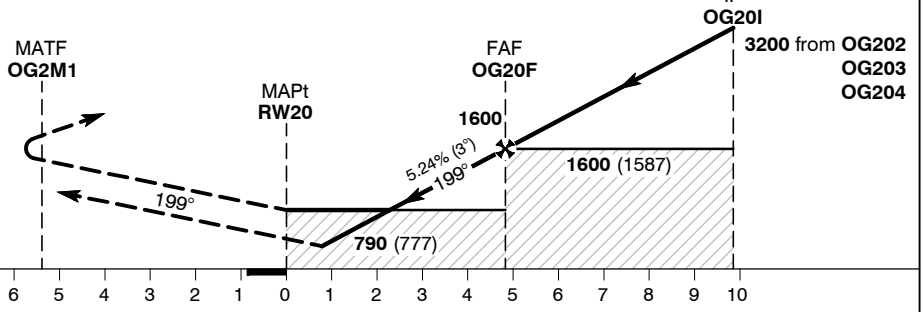
ORANJEMUND (FYOG)

RNP RWY 20



TRANSITION ALT
5000

MISSED APPROACH:
MAX speed **240** KTS IAS.
Climb to **3200**.
Route direct **OG2M1**.
At **OG2M1** turn right
direct to **OG202** to hold.



Aircraft cat		A	B	C
MDA (OCH) RVR/ALS OUT	LNAV/VNAV	320 (300) 1500	320 (300) 1500	320 (300) 1800
	LNAV	790 (777) 1500	790 (777) 1500	790 (777) 1500

Distance to MAPt	NM	4.8	4	3	2	1	
Altitude	FT	1600 (1587)	1350 (1337)	1030 (1017)	710 (697)	390 (377)	
Ground Speed	KTS	80	100	120	140	160	180
FAF to MAPt	M:SEC	3:45	3:00	2:30	2:09	1:53	1:40
Rate of Descent (3°)	FT/MIN	430	530	640	740	850	960

NOTES:
1. Sporadic large birds activity in the vicinity of Aerodrome.
2. Pilots are requested to avoid overflying the Ramsar Nature Site from the Oranje River Mouth to the Border Bridge.

COMMUNICATION FAILURE PROCEDURE:
Squawk 7600. Follow the Missed Approach Procedure to OG202. Enter the Hold at OG202. Hold for 5 mins, then complete the Approach.

CHANGES: Amended Communication Failure Procedure

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AD 2. AERODROMES

FYRU AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYRU - Rundu Aerodrome

FYRU AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP co-ordinates and site at AD*	175722S 0194314E
2.	*Direction and distance from (city)*	SW 5 NM from Rundu
3.	*Elevation/reference temperature*	3 627 FT/1 105 M
4.	*MAG VAR/annual change*	7° W (2016) / 0.10º decreasing
5.	*AD administration, address, telephone, telefax, telex, AFS*	Namibia Airports Company Limited P.O.Box 2307 Walvis Bay Namibia AD Tel +264 66 255462 Fax +264 66 255463 Controlling AD Tel: +264 64 271100 Telefax: +264 64 200164 E-mail: dirk@airports.com.na Telex: Nil info available AFS: Nil
6.	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
7.	*Remarks*	Public aerodrome, designated port of entry/exit

FYRU AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	Summer: MON-FRI 0600-1500 Winter: MON-FRI 0700-1600
2.	*Customs and immigration*	O/R (067) 255014
3.	*Health and sanitation*	Nil facilities
4.	*AIS briefing office*	Nil facilities
5.	*ATS reporting office (ARO)*	Nil facilities
6.	*MET briefing office*	Nil facilities
7.	*ATS*	Nil facilities
8.	*Fuelling*	Service available sunrise to sunset or 'PN', Cell:+264811246878 /+264811243898 /+264 81 1508604
9.	*Handling*	Nil facilities
10.	*Security*	Nil facilities
11.	*De-icing*	Nil facilities
12.	*Remarks*	Except in the case of emergency or with prior permission no ACFT may take off or land outside AD OPR HR

FYRU AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	Nil facilities
2.	*Fuel/oil types*	AVGAS and JET A1
3.	*Fuelling facilities/capacity*	JET A1 hydrant and AVGAS hydrant
4.	*De-icing facilities*	Nil facilities
5.	*Hangar space for visiting aircraft*	Consult AD Supervisor
6.	*Repair facilities for visiting aircraft*	Nil facilities
7.	*Remarks*	Nil

FYRU AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	Only lodges in town and vicinity (Rundu)
2.	*Restaurants*	In town
3.	*Transportation*	Nil services
4.	*Medical facilities*	Hospital in town
5.	*Bank and post office*	In town
6.	*Tourist office*	Nil facilities
7.	*Remarks*	Nil

FYRU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	CAT 5
2.	*Rescue equipment*	1 vehicle, 9000 litres of water
3.	*Capability for removal of disabled aircraft*	NIL
4.	*Remarks*	Firefighting and Rescue Service HOD: Summer Mon-Fri: 0600-1500, Sat: NIL services, Sun: 0600-1100 Winter Mon-Fri: 0700-1600, Sat: NIL services, Sun: 0700-1200

FYRU AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYRU AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Concrete and Asphalt Strength: Nil info
2.	*Taxiway width, surface and strength*	Width: 23 M Surface: Asphalt Strength: Nil info
3.	*ACL location and elevation*	Nil info
4.	*VOR/INS checkpoints*	Nil facilities
5.	*Remarks*	Nil

FYRU AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil facilities
2.	*RWY and TWY markings and LGT*	RWY: THR, TDZ, centre line markings TWY: Centre line markings, holding position at all RWY/TWY intersections
3.	*Stop bars*	Nil
4.	*Remarks*	Nil

FYRU AD 2.10 AERODROME OBSTACLES

In Approach/TKOF areas			In circling areas and at AD		Remarks
1			2		3
RWY/Area affected	Obstacle Type Elevation Markings/ LGT	Co-ordinates	Obstacle type Elevation Markings/ LGT	Co-ordinates	
a	b	c	a	b	
			NBC Tower Elevation: 3771 FT Height: 212 M AGL/696 FT Top of mast: 4467 FT	180230.9S 0193728.9E	NBC Tower is 7.5NM South West from AD

FYRU AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Nil facilities
2.	*Hours of service* *MET office outside hours*	Not applicable
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek
4.	*Type of landing forecast* *Interval of issuance*	Not applicable
5.	*Briefing/consultation provided*	Not applicable
6.	*Flight documentation* *Language(s) used*	English
7.	*Charts and other information available for briefing or consultation*	Not applicable
8.	*Supplementary equipment available for providing information*	Not applicable
9.	*ATS units provided with information*	FYWH
10.	*Additional information (limitation of service, etc.)*	Nil

Mean daily maximum and minimum temperatures (°C) for each month of the year												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Max	31.0	30.0	30.2	29.3	28.4	25.9	26.3	29.5	33.3	34.7	32.8	32.2
Min	18.8	18.4	17.6	14.9	9.8	6.1	6.0	8.7	13.4	17.7	18.4	18.5
Mean pressure for each month of the year at approximate the times of MAX and MIN temperatures in hPa												
Max	39.0	39.3	37.5	36.5	33.3	31.6	32.9	35.7	38.2	40.8	40.0	39.3
Min	9.5	11.5	6.4	7.0	-0.7	-2.8	-4.2	-0.5	3.4	8.5	8.1	12.0
Relative and absolute humidity at approximately the times of MAX (a) and MIN (b) temperatures												
Rel(a)	52	54	50	41	32	28	27	23	22	27	38	45
% (b)	84	88	86	81	74	73	70	58	46	50	68	77

FYRU AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (LCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR Elevation and Highest Elevation of TDZ of Precision APP RWY
1	2	3	4	5	6
08	071.82°	3054 x 30	LCN 63 Asphalt	175740.34S 0194215.80E GUND 17.5 M	3627 FT
26	251.82°	3054 x 30	LCN 63 Asphalt	175706.44S 0194403.69E GUND 17.5 M	3581 FT
18/36	Permanently Closed				

Slope of RWY-SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strip Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
Nil info available					Nil

FYRU AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
08	3354	3354	3354	3354	Nil
26	3354	3354	3354	3054	Displaced THR of 300M
18/36	Permanently Closed				

FYRU AD 2.14 APPROACH AND RUNWAY LIGHTING

Nil facilities available.

FYRU AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

Nil facilities available.

FYRU AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYRU AD 2.17 ATS AIRSPACE

1.	*Designation and lateral limits*	Nil
2.	*Vertical limits*	Nil
3.	*Airspace classification*	Nil
4.	*ATS unit call sign* *Language(s)*	Nil
5.	*Transition altitude*	Nil
6.	*Remarks*	Nil

FYRU AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
Unmanned	Rundu Traffic	124.8 MHZ	HJ	Nil

FYRU AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	*ID*	*Frequency*	*Hours of Operation*	*Position of transmitting antenna co-ordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	2	3	4	5	6	7
RNP APCH	N/A	1575.42MHz	H24	N/A	N/A	Transmitting antennas are satellite based

FYRU AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

All pilots operating at Rundu aerodrome must wear a lime green reflective jacket depicting their airlines concerned on the rear of the jacket for safety reasons as well as easy identification.

2. Taxiing to and from stands

Nil procedures.

3. Parking area for small aircraft (general aviation)

ACFT must adhere to RWY's and TWY's and park in the parking area.

4. Parking area for helicopters

On apron.

5. Apron - Taxiing during winter conditions

Nil.

6. Taxiing - Limitations

Nil limits.

7. School and training flights - Technical test flights - Use of runways

Nil training.

8. Helicopter traffic - Limitation

Nil limits.

9. Removal of disabled aircraft from runways

Nil facilities.

FYRU AD 2.21 NOISE ABATEMENT PROCEDURES

Nil procedures.

FYRU AD 2.22 FLIGHT PROCEDURES

Nil procedures.

FYRU AD 2.23 ADDITIONAL INFORMATION

THR RWY 26 Permanently displaced to 300M West of Eastern extremity of Asphalted pavement. New RWY dimension is 3054M by 30M

FYRU AD 2.24 CHARTS RELATED TO RUNDU

The following charts are produced for Rundu Aerodrome:

ICAO Charts		
No	Chart Type	Page No
1	Instrument Approach Chart – ICAO RNP RWY 08	FYRU AD 2-9
2	Instrument Approach Chart – ICAO RNP RWY 26	FYRU AD 2-11

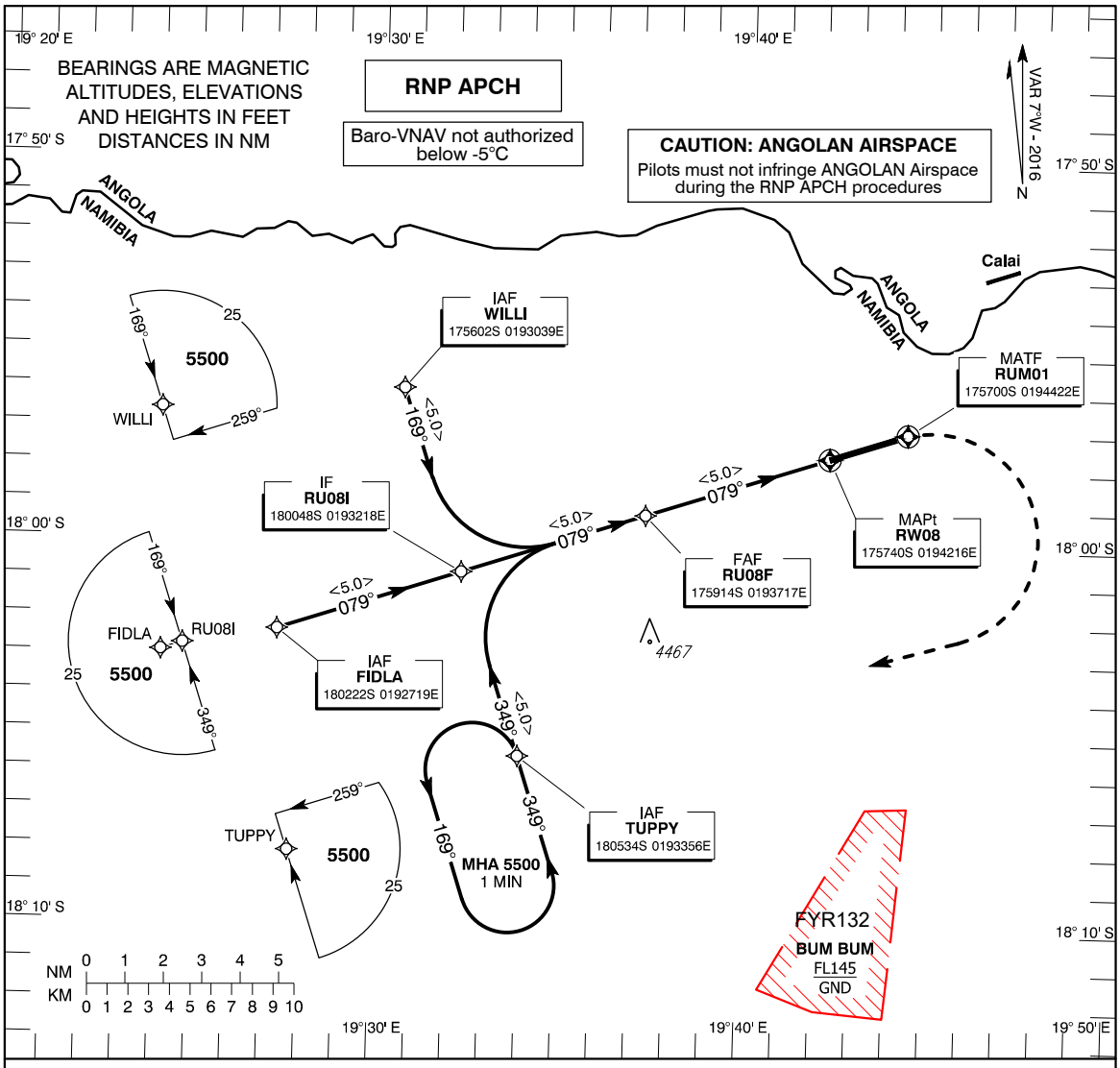
INSTRUMENT APPROACH CHART - ICAO

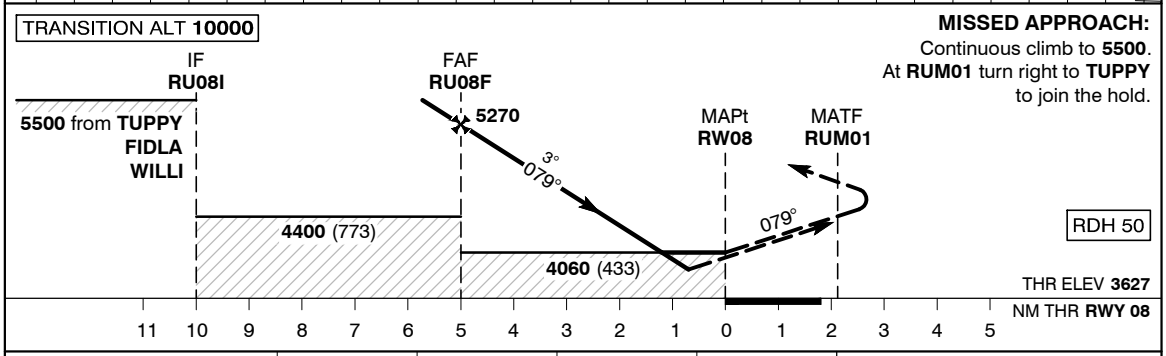
AERODROME ELEV - **3627 FT**
HEIGHT RELATED TO
THR RWY - **08** ELEV - **3627 FT**

ATS	124.80
APP	000.00
TWR	000.00
APN	000.00

RUNDU (FYRU)

RNP RWY 08





MISSED APPROACH:
Continuous climb to **5500**.
At **RUM01** turn right to **TUPPY**
to join the hold.

Aircraft cat		A	B	C	D
MDA (OCH) VIS	LNAV/VNAV	3900 (273) 1300	3910 (283) 1400	3920 (293) 1400	3950 (323) 1400
	LNAV	4060 (433) 2000			
Distance to MAPt	NM	5	4	3	2
Altitude	FT	5270 (1643)	4950 (1323)	4630 (1003)	4310 (683)
Ground Speed	KTS	80	100	120	140	160
Rate of Descent (3°)	FT/MIN	425	531	637	743	849

NOTE:
1. Track shortening inside IAF not permitted.

Changes: FYR132 Name and lateral dimensions, Transition Altitude 10000FT, Scale removed

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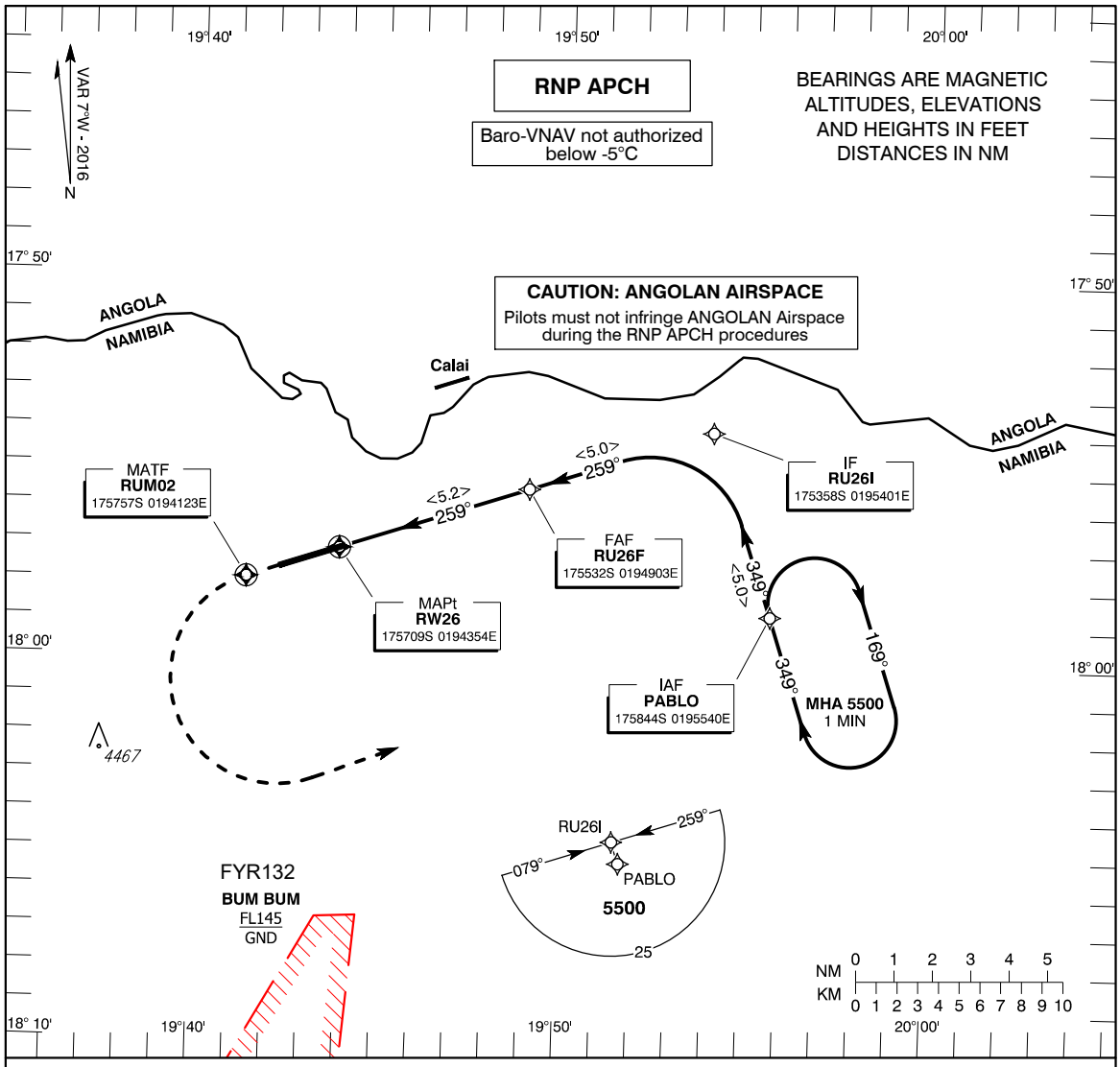
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **3627 FT**
HEIGHT RELATED TO
THR RWY - **26** ELEV - **3588 FT**

ATS	124.80
APP	000.00
TWR	000.00
APN	000.00

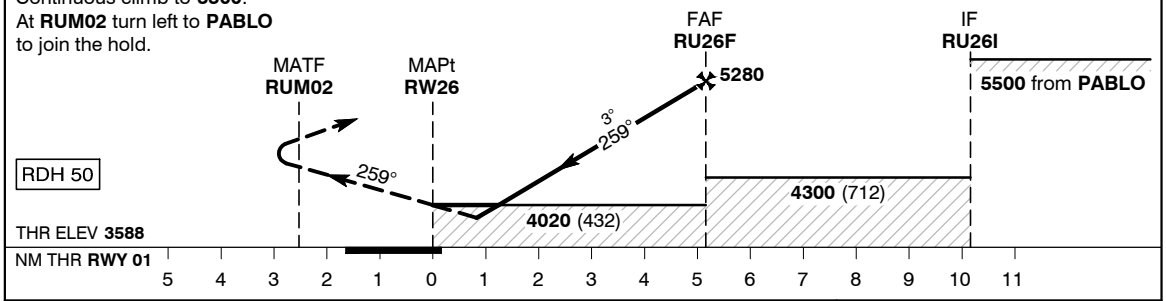
RUNDU (FYRU)

RNP RWY 26



MISSED APPROACH:
Continuous climb to **5500**.
At **RUM02** turn left to **PABLO** to join the hold.

TRANSITION ALT **10000**



Aircraft cat		A	B	C	D
MDA (OCH) VIS	LNAV/VNAV	3890 (302) 1300	3900 (312) 1400	3910 (322) 1400	3910 (322) 1400
	LNAV	4020 (432) 2000			

Distance to MAPt	NM	5	4	3	2	
Altitude	FT	5230 (1642)	4910 (1322)	4590 (1002)	4270 (682)	
Ground Speed	KTS	80	100	120	140	160
Rate of Descent (3°)	FT/MIN	425	531	637	743	849

NOTE:
1. Threshold displaced by 295m.
2. Track shortening inside IAF not permitted.

Changes: FYR132 Name and lateral dimensions, Transition Altitude 10000FT, Scale removed

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AD 2. AIRPORTS

FYSA AD 2.1 AIRPORT LOCATION INDICATOR AND NAME

FYSA – Skorpion Mine Aerodrome

FYSA AD 2.2 AIRPORT GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP co-ordinates and site at AD*	S275233,632 E0163851,802 Mid point of RWY17/35
2.	*Direction and distance from (city)*	8.04NM North West
3.	*Elevation/reference temperature*	570M
4.	*MAG VAR/annual change*	18°W (2016)/ 0.02° decreasing
5.	*AD administration, address, telephone, telefax, telex, AFS*	Skorpion Zinc (PVT)Ltd Private Bag 2003 Rosh Pinah Tel: +264 63 271 2100 Telefax: +264 63 271 2526 Telex: Nil AFS: Nil
6.	*Types of traffic permitted (IFR/VFR)*	VFR
7.	*Remarks*	Aerodrome situated within desert, dust abound during windy days, non instrument runway, daylight operations only. 24 Hours PN required.

FYSA AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	HJ
2.	*Customs and immigration*	HJ
3.	*Health and sanitation*	Nil
4.	*AIS briefing office*	Nil
5.	*ATS reporting office (ARO)*	Nil
6.	*MET briefing office*	Nil
7.	*ATS*	Nil
8.	*Fueling*	See NOTAM
9.	*Handling*	Nil
10.	*Security*	Nil
11.	*De-icing*	Nil
12.	*Remarks*	Nil

FYSA AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	Nil
2.	*Fuel/oil types*	JET-A1 available from November 2001
3.	*Fueling facilities/capacity*	One fuel tank , electrical driven Capacity: 23000 litres
4.	*De-icing facilities*	Nil
5.	*Hangar space for visiting aircraft*	Nil
6.	*Repair facilities for visiting aircraft*	Nil
7.	*Remarks*	Nil

FYSA AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	Nil
2.	*Hotels*	Nil
3.	*Restaurants*	Nil
4.	*Transportation*	By arrangement
5.	*Medical facilities*	Nil
6.	*Bank and post office*	Nil
7.	*Tourist office*	Nil
8.	*Remarks*	Nil

FYSA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	CAT 1
2.	*Rescue equipment*	Nil
3.	*Capability for removal of disabled aircraft*	Nil
4.	*Remarks*	Rescue and fire fighting vehicle situated at mine site. Pilot to contact on duty personnel to make arrangement for protection. Tel: + 264 63 2712262/2911 Cell: +264 811 462610 FREQ: 109MHz

FYSA AD 2.7 SEASONAL AVAILABILITY - CLEARING

1.	*Types of clearing equipment*	Nil
2.	*Clearance priorities*	Nil
3.	*Remarks*	Available all season

FYSA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Asphalt Strength: PCN 9/F/M/Y/T
2.	*Taxiway width, surface and strength*	Width: 12M Surface: Asphalt Strength: PCN/ 9 / F/M/Y/T
3.	*ACL location and elevation*	Location: On Apron Elevation: 574.7M
4.	*VOR/INS checkpoints*	Nil
5.	*Remarks*	Non instrument: visual approach aerodrome

FYSA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil
2.	*RWY and TWY markings and LGT*	RWY & TWY marked. No lighting
3.	*Stop bars*	Nil info available
4.	*Remarks*	Day light operations only

FYSA AD 2.10 AIRPORT OBSTACLES

Mountainous terrain: Pilots to exercise caution during approach procedure.

FYSA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

Nil

FYSA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE & MAG BRG*	*Dimensions of RWY (M)*	*Strength (LCN) and surface of RWY and SWY*	*THR Co-ordinates*	*THR Elevation and Highest Elevation of TDZ of Precision APP RWY*
1	2	3	4	5	6
17	152°GEO 173°MAG	1750X18	PCN 9/F/M/Y/T	275208.463S 0163836.925E	
35	332°GEO 353°MAG	1750X18	PCN 9/F/M/Y/T	275258.801S 0163906.679E	

Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	8	9	10	11	12
-0.620%	Nil	Nil	1810X60	Nil	Nil
+0.620%	Nil	Nil	1810X60	Nil	Nil

FYSA AD 2.13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
17	1750	1750	1750	1750	Nil
35	1750	1750	1750	1750	Nil

FYSA AD 2.14 APPROACH AND RUNWAY LIGHTING

Nil

FYSA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

Blue edge reflector system for emergency night time use installed.

FYSA AD 2.16 HELICOPTER LANDING AREA

Nil

FYSA AD 2.17 ATS AIRSPACE

Nil

FYSA AD 2.18 ATS COMMUNICATION FACILITIES

Nil

FYSA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Nil

FYSA AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

1.1 All flights except scheduled flights must inform mine management during office hours. 24 HR PN to arrival of the following:

(a) ACFT registration
(b) Persons on board including crew
(c) Date / Time of arrival
(d) Date / Time of departure

1.2 The contact person is Sarika Coleman at Tel: +264 63 2712386 or Fax: +264 63 2712526

FYSA AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

FYSA AD 2.22 FLIGHT PROCEDURES

Nil

FYSA AD 2.23 ADDITIONAL INFORMATION

Nil

FYSA AD 2.24 CHARTS RELATED TO FYSA

Nil

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AD 2. AERODROMES

FYSM AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYSM - Swakopmund Aerodrome

FYSM AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP coordinates and site at AD*	223930S 0143400E
2.	*Direction and distance from (city)*	ENE 2 NM from Swakopmund
3.	*Elevation/reference temperature*	170 FT
4.	*MAG VAR/annual change*	13° W (2016)/ 0.12° decreasing
5.	*AD administration, address, telephone, , Fax*	Swakopmund Airfield CC P.O. Box 80300 Olympia, Windhoek Namibia Tel: +264 61 226061 Fax : +264 61 227182 Airfield Supervisor: Mr J.P ERAMUS Tel +264 64 401017 Cell: +264 81 295 1622
6.	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
7.	*Remarks*	Public aerodrome, License withdrawn

FYSM AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	HJ
2.	*Customs and immigration*	Nil facilities
3.	*Health and sanitation*	Nil facilities
4.	*AIS briefing office*	Nil facilities
5.	*ATS reporting office (ARO)*	Nil facilities
6.	*MET briefing office*	Nil facilities
7.	*ATS*	Nil
8.	*Fuelling*	Summer MON – FRI 0500 – 1600 SAT, SUN and Public HOL : Call out Winter MON – FRI 0600 – 1700 SAT, SUN and Public HOL : Call out Note: Arrangements may be made for after hours service, see AD 2.4 for the telephone numbers
9.	*Handling*	Nil facilities
10.	*Security*	Nil facilities
11.	*De-icing*	Nil facilities
12.	*Remarks*	Nil

FYSM AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	Nil facilities
2.	*Fuel/oil types*	JET A1+ AVGAS
3.	*Fuelling facilities/capacity*	Southern Energy Company P.O Box 1228 Walvis Bay Fuelling agent : Namibia Airfield Fuelling services Tel/Fax: +264 64 407185 Refueler: Iki Adonis – Mobile +264 81 328 3076 Charlton Lenders : +264 817 166 655 Office : +264 40-7185 Otto Krohne – Mobile +264 81 657 9254 Standby cellphone: +264 855 442 002 Controlling Office Tel: +264 64 203951 / 203984 (office hours) +264 81 122 7019 (After hours) Fax: +264 64 203984 Cell: +264 81 149 0114 Email: Sharonb@sec.com.na 28 000 Litre container unit 23 000 Litre AVGAS tank 23 000 Litre Jet A1 tank
4.	*De-icing facilities*	Nil facilities
5.	*Hangar space for visiting aircraft*	O/R
6.	*Repair facilities for visiting aircraft*	West Air Maintenance Tel. +264 64 407015/18
7.	Remarks	NIL

FYSM AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	In town
2.	*Restaurants*	In town
3.	*Transportation*	Car hire
4.	*Medical facilities*	Hospital in town
5.	*Bank and post office*	In town
6.	*Tourist office*	In town
7.	*Remarks*	Nil

FYSM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

Nil facilities available.

FYSM AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYSM AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Slurry seal
2.	*Taxiway width, surface and strength*	Nil facilities
3.	*ACL location and elevation*	Nil information
4.	*VOR/INS checkpoints*	Nil facilities
5.	*Remarks*	Nil

FYSM AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil facilities
2.	*RWY and TWY markings and LGT*	White reflector plates for night operation on RWY 24 only. Green Threshold, and red Runway-end lighting on RWY 24 only and activated automatically at night. White concrete plates on edges of RWY 17/35 only. RWY designation markings on all RWY's. RWY guidance signs erected near TWY.
3.	*Stop bars*	Nil facilities
4.	*Remarks*	ACFT may not use TWY's for take-off or landing. ACFT not permitted to use TWY FM Hangar Area to APN/THR RWY 17 for take-off or landing, all ACFT include microlight to use designated RWY's for take-off and landing only.

FYSM AD 2.10 AERODROME OBSTACLES

In Approach/TKOF areas			In circling areas and at AD		Remarks
1			2		3
RWY/Area affected	*Obstacle Type Elevation Markings/ LGT*	*Co-ordinates*	*Obstacle type Elevation Markings/ LGT*	*Co-ordinates*	
a	b	c	a	b	
06 TKOF 24 APCH	Powerline Height: 43 FT AGL	-	0.6NM NE of THR RWY 24	Nil info	Telephone line 94 M from AD BDRY
	Light mast Height 98 FT	Approx. 1 NM north of AD	Two reservoirs Height 26 FT	SW of AD just outside AD boundary	
			One reservoir Height 60 FT	SW of AD just outside AD boundary	
			Microwave Tower 160FT	223600S 0144120E	8NM East of FYSM AD

FYSM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Nil facilities
2.	*Hours of service* *MET office outside hours*	Nil facilities
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek MET office (telephone (062) 540059)
4.	*Type of landing forecast* *Interval of issuance*	Nil facilities
5.	*Briefing/consultation provided*	Nil facilities
6.	*Flight documentation* *Language(s) used*	Nil facilities English
7.	*Charts and other information available for briefing or consultation*	Nil facilities
8.	*Supplementary equipment available for providing information*	Nil facilities
9.	*ATS units provided with information*	Nil facilities
10.	*Additional information (limitation of service, etc.)*	Nil

Mean daily maximum and minimum temperatures (°C) for each month of the year												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Max	31.3	31.3	33.3	32.0	29.9	27.5	27.0	27.3	28.3	29.2	30.4	30.6
Min	15.0	15.4	16.5	15.2	13.6	11.8	10.5	9.6	9.7	10.7	12.2	13.2
Mean pressure for each month of the year at approximate the times of MAX and MIN temperatures in hPa												
Max	43.1	43.5	42.9	40.8	40.2	35.5	36.6	37.6	42.3	42.8	43.6	42.4
Min	10.3	9.4	8.5	5.1	3.2	1.4	1.1	1.6	2.9	3.9	4.8	8.5
Relative and absolute humidity at approximately the times of MAX (a) and MIN (b) temperatures												
Rel(a)	35	36	31	27	22	25	24	26	28	28	28	32
% (b)	83	84	74	65	54	53	54	63	74	78	78	83

FYSM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MAG BRG	Dimensions of RWY (M)	Strength (LCN) and surface of RWY and SWY	THR Co-ordinates	THR Elevation and Highest Elevation of TDZ of Precision APP RWY
1	2	3	4	5	6
06	Nil info	1600 x 18	LCN 10 Slurry seal	Nil info	Nil info
24	Nil info	1600 x 18	LCN 10 Slurry seal	Nil info	Nil info
17	Nil info	963 x 24	LCN 10,5 Sand	Nil info	Nil info
35	Nil info	963 x 24	LCN 10,5 Sand	Nil info	Nil info

Slope of RWY-SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strip Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
Nil info	Nil info	Nil info	Nil info	Nil	Run up area established on TWY to RWY 24 and then on THR of RWY 35

FYSM AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
06	Nil info	1600	Nil info	Nil info	Nil
24	Nil info	1600	Nil info	Nil info	Nil
17	Nil info	963	Nil info	Nil info	Nil
35	Nil info	963	Nil info	Nil info	Nil

FYSM AD 2.14 APPROACH AND RUNWAY LIGHTING

Low intensity landing reflectors have been installed on RWY 24 only except for the green threshold and red end lights which are proper lights. Runway delineation markers are visible up to 3 KM from the runway threshold and will become brighter the closer the aircraft approaches the runway to land. Depending on visibility the green threshold and red end lights are visible at distances of 5 KM or greater.

FYSM AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

Nil facilities available.

FYSM AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYSM AD 2.17 ATS AIRSPACE

Nil ATS airspace

FYSM AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
TIBA	Swakopmund Traffic	126.3 MHZ	H24	Unmanned Aerodrome

FYSM AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Nil facilities available

FYSM AD 2.20 LOCAL TRAFFIC REGULATIONS

Model flying taking place north of Swakopmund at the salt works at PSN 223653S 0143208E.

All aircraft including micro-lights are not allowed to make use of the short RWY 24/06 for either landing or take-off. The area known as short RWY 24/06 can only be used for taxing as published in the AIP. Any transgression will be reported to the DCA.

All micro-lights landing or take-off at Swakopmund airfield must fill in the landing and departure register AVBL at that airfield's office in the terminal building before and after each flight. There is no charge for landing.

FYSM AD 2.21 NOISE ABATEMENT PROCEDURES

1. Arriving and departing flights

The noise abatement procedures described hereunder are to ensure minimized ACFT movements over the town limits and therefore minimizes noise pollution. NOTE:

- Not applicable to ACFT with radio communication failure.

1.1 No aircraft shall over-fly the town below 3000 AGL unless permission is granted by the town council or DCA.

1.2 No aircraft except ultra-light or micro-light aircraft shall join on a right downwind for RWY 24 or on a left downwind for RWY 06. Joining right hand downwind for left hand downwind for RWY 06 is prohibited except in the event of radio-communication failure or for micro-light/ ultra-light aircraft using the short RWY. All future transgressions will be reported to DCA for legal action.

1.3 Aircraft joining along the coast from the South shall remain over the ocean until ready to turn on to an extended right base leg for RWY 24.

1.4 Aircraft joining along the coast from the North shall remain over the ocean until past the river mouth before joining final for RWY 06 or left downwind for RWY 24.

1.5 Only right circuits shall apply for RWY 35.

1.6 Only left circuits shall apply for RWY 17.

1.7 Aircraft departing on RWY 24 for northbound flights shall maintain runway heading or until 1000 FT reaching the river mouth, before turning out to the right or alternatively turn out to the left.

FYSM AD 2.22 FLIGHT PROCEDURES

1. Communication Procedures for use in case of RCF and as unmanned Airfield procedures

1.1 TRAFFIC joining from the East

To follow along the Southern side of the Swakop river to the Swakop river mouth at 2000' AGL. Then join right-hand downwind RWY 24 for normal landing. If RWY 06 is in use, fly past the town along the beachfront and join left downwind for RWY 06.

1.2 TRAFFIC joining from the North

If RWY 24 is in use fly along the beach front to the Swakop river mouth at 2000' AGL and join right-hand downwind for RWY 24. When RWY 06 is in use join early left downwind for RWY 06 at 2000' AGL and descent on the downwind for landing on RWY 06

1.3 TRAFFIC joining from South

For RWY 24 join at the Swakop river mouth again at 2000' AGL and then right-hand downwind RWY 24. For RWY 06, join at the Swakop river mouth at 2000' AGL, thence along the beach front North bound around the town for a left downwind RWY 06.

2. Night landing procedures

Night landing procedures for runway 24 only are as follows: the aircraft is to fly overhead at or above MSA descent to circuit altitude only once a visual approach and landing can be guaranteed. Descent to be done in the approach configuration whilst remaining in the circuit. Establish on downwind runway 24 at MIN. 1500 FT AGL, whilst the aircraft landing lights are on. On final approach the aircraft must line-up the green threshold and red end lights for runway 24 centreline alignment and maintain a 4° or higher glide path due to high terrain and powerline. On the aircraft landing lights the runway delineation markers are visible up to 3 KM from the runway threshold and will become brighter the closer the aircraft approaches the runway to land depending on visibility at distances of 5 KM or greater. With high crosswind conditions the illumination of the delineating markers will occur closer to the runway due to the crabbing action of the aircraft.

FYSM AD 2.23 ADDITIONAL INFORMATION

1. Parachute Jumping

1.1 Parachute Jumping Exercises seven days a week and traffic is not, repeat, not to join overhead the aerodrome due to possible skydiving activities. The pilot in command of the dropping aircraft will advise all traffic of his intentions during unmanned periods (Nil ATC)

1.2 A permanent drop zone has been declared at Amphitheatre (S224400 E0143400) which is 4.5 NM south of Swakopmund. Parachute Jumping Exercises take place every weekend (Saturdays and Sundays). 6000 FT AGL/GND

1.3 A permanent drop zone has been declared at Lunar Landscape (224000S 0144800E) which is 13 NM east off Swakopmund. Parachute Jumping Exercises take place every weekend (Saturdays and Sundays). 6000 FT AGL/GND.

1.4 A permanent drop zone has been declared at China Town 223350S 0143434E 6NM north of Swakopmund. DLY Skydiving activities taking place DLY BTN SR and SS. Parachute ACFT will operate on 126.3MHZ and 122.5MHZ.

2. Blasting

Opencast mine south of the main road to Usakos. Blasting occurs from MON to FRI BTN 1200/1300 UTC.

FYSM AD 2.24 Charts related to Swakopmund

Nil charts available for Swakopmund Aerodrome.

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AD 2. AERODROMES

FYWB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYWB - Walvis Bay Airport

FYWB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP co-ordinates and site at AD*	225848S 0143843E
2.	*Direction and distance from (city)*	East, 8 NM from Walvis Bay
3.	*Elevation/reference temperature*	317 FT/97 M
4.	*Geoid undulation at AD ELEV PSN*	96.8 FT (29.5M)
5.	*MAG VAR/annual change*	13° W (2016)/ 0.12° decreasing
6.	*AD administration, address, telephone, telefax, telex, AFS*	Namibia Airports Company Limited Walvis Bay Airport PO Box 2307 Walvis Bay Namibia Airport Manager Ms. Chrizelda George Contact details: AD Tel: +264 64 271100 APM Tel: +264 64 271101 Fax: +264 64 200164 Cell: +264 (0)81 163 5038 (during and after hours) Email : georgec@airports.com.na ATC Tel: +264 64 702690/1 Fax: +264 64 702699 AFS: FYWBZTZX
7.	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
8.	*Remarks*	Public aerodrome Designated port of entry/exit

FYWB AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	MON-SUN: 0600 - 1500
2.	*Customs and immigration*	As AD Administration
3.	*Health and sanitation*	Nil facilities
4.	*AIS briefing office*	Nil facilities
5.	*ATS reporting office (ARO)*	Nil facilities
6.	*MET briefing office*	Nil facilities
7.	*ATS*	MON – FRI: 0600 – 1600 UTC

		SAT & SUN: 0700 – 1500 UTC
8.	*Fuelling*	As AD Administration
9.	*Handling*	As AD Administration
10.	*Security*	24 HRS
11.	*De-icing*	Nil facilities
12.	*Remarks*	Except in the case of emergency or with prior permission no ACFT may take off or land outside AD OPR HR within daylight OPR HR O/R except scheduled flights Customs: +264 64 2086000 Immigration: +264 64 203232/ +264 81 421 6198/ +264 81 249 5556

FYWB AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	Walvis Bay Airport Services (WBAS) Hydraulic staircases, forklift 3 ton, air starter unit, 5 ton high loader, tractor, 5 ton scale, hangar parking, baggage trolleys cargo trailers, GPU, toilet services, vehicle (pickup) & aircraft cleaning.
2.	*Fuel/oil types*	JETA1 and AVGAS 100LL
3.	*Fuelling facilities/capacity*	3 x 83 000 L underground Jet A1 tanks – 83 000 L each 1 x jet A1 refuelling truck – 18 000 L 1 x Jet A1 refuelling truck – 11 000 L 1 x AVGAS refuelling truck – 3 000 L
4.	*De-icing facilities*	Nil facilities
5.	*Hangar space for visiting aircraft*	Limited by prior arrangement WBAS
6.	*Repair facilities for visiting aircraft*	Nil facilities
7.	*Remarks*	Handling and fuelling services available within AD HR or by arrangement Walvis Bay Airport Services (WBAS) Tel: +264 642012180 Telefax: +264 64204878 Mobile: +264811505271, +264811282437 & +264811438939 Afterhours: +264811282437, +264811505271 Email: contact@wbas.com.na Southern Energy Company P.O. Box 1228 Walvis Bay Airport Tel: +264 64 203951 Airport Fax: +264 64 203984 Refueller: Harry Green, Izak van Rooyen & Werner Losper Operator's Office: +264 64207623 Standby cell-phone: +264 81 150 2489 Controlling Office Fax: +264 64 204194

		After Hours/Cell: +264 81 150 2493 / +264 81 150 2507 Email: Sharonb@sec.com.na

FYWB AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	12km from AD in town
2.	*Restaurants*	At AD and in town
3.	*Transportation*	Taxis and car hire from AD
4.	*Medical facilities*	First aid at AD. Hospital in town
5.	*Bank and post office*	In town
6.	*Tourist office*	Office in town. Walvis Bay Tourism Centre 264 64 20 0606 (Bookings) 264 81 868 8520 (Mobile) 264 64 20 0605 (Fax) bookings@walvis-info.com http://www.levotours.com/walvis-bay-tourism-centre
7.	*Remarks*	Nil

FYWB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	Within AD HR: CAT 6
2.	*Rescue equipment*	2 x Rescue Vehicles R1 – 11 000 Litres water / 1320 Litres foam / 250 kg DCP R2 – 11 000 Litres water / 1320 Litres foam / 250 kg DCP
3.	*Capability for removal of disabled aircraft*	5 x Fetter Bags and 4 Hydraulic Jacks
4.	*Remarks*	Outside AD HR, firefighting services to be requested.

FYWB AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available

FYWB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Concrete and Asphalt Strength: Nil info available
2.	*Taxiway width, surface and strength*	Width: 15 M Surface: Asphalt Strength: Nil info available
3.	*ACL location and elevation*	Nil info available
4.	*VOR/INS checkpoints*	Nil facilities
5.	*Remarks*	Apron not visible from ATC Tower

FYWB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil facilities
2.	*RWY and TWY markings and LGT*	RWY: THR, designators, centre line TWY: Holding positions at all RWY/TWY intersections, centre line markings
3.	*Stop bars*	Nil facilities
4.	*Remarks*	Nil

FYWB AD 2.10 AERODROME OBSTACLES

Area 1					
OBST ID/ Designation	*OBST Type*	*OBST position*	*ELEV/HGT*	*Markings / Type, Colour*	*Remarks*
a	b	c	d	e	f
Mountain	Mountain	225820.12S 0144017.71E	368FT	Nil	09/TKOF 27/APCH

Area 2					
OBST ID/ Designation	*OBST Type*	*OBST position*	*ELEV/HGT(FT)*	*Markings / Type, Colour*	*Remarks*
a	b	c	d	e	f
Rooi Res	Reservoir	225850.47S 0143937.35E	508.73/Nil INFO AVBL	Marked	Nil
Mountain	Mountain	225830.51S 0144035.09E	407/Nil INFO AVBL	Nil	Nil
MAST (1)	MAST (1)	225852.31S 0143920.76E	101/Nil INFO AVBL	Nil	Nil
MAST (2)	MAST (2)	225850.36S 0143922.63E	100/Nil INFO AVBL	Nil	Nil
NW MAST	Mast	225818.80S 0143841.18E	332.4/Nil INFO AVBL	R W/R LGT	Nil
Hanger	Hanger	225839.08S 0143832.69E	310.3/Nil INFO AVBL	Nil	Nil
Cell TWR	Mast	225821.38S 0143837.91E	340.7/Nil INFO AVBL	R W/R LGT	Nil
CT	Control TWR	225837.16S 0143841.08E	302.6/Nil INFO AVBL	R LGT	Nil
LIT	Mast	225851.98S 0143845.37E	302.6/Nil INFO AVBL	Nil	Nil
FIRE	Mast	225835.23S 0143844.88E	321.6/Nil INFO AVBL	R W/Nil	Nil
BUNK	Mast	225831.92S 0143807.27E	292.06/Nil INFO AVBL	R W/Nil	Nil
VOR WBV	NAV AID	225855.59S 0143840.48E	288.2/27.2	R W/ R LGT	Nil
MIL E	Mast	225852.31S 0143920.76E	397.9/100.3	R LGT	Nil
MIL W	Mast	225850.36S 0143922.63E	398.7/99.9	R LGT	Nil
TELECOM MAST	MAST	230317.00S 0143729.00E	533FT AMSL	DAY/NIGHT	NIL

Area 3					
OBST ID/ Designation	*OBST Type*	*OBST position*	*ELEV/HGT*	*Markings / Type, Colour*	*Remarks*
Nil					

FYWB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Windhoek
2.	*Hours of service* *MET office outside hours*	MON-FRI: 0330–1830 SAT-SUN: 0330–1230 SAT-SUN: 1730 – 1830 (one reading is taken between these times) 2 HR
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek 6 HR
4.	*Type of landing forecast* *Interval of issuance*	Nil
5.	*Briefing/consultation provided*	Personal Consultation
6.	*Flight documentation* *Language(s) used*	Charts, abbreviated plain language text English
7.	*Charts and other information available for briefing or consultation*	S3, U85, U7, U5, U2, P5
8.	*Supplementary equipment available for providing information*	Nil supplementary equipment
9.	*ATS units provided with information*	Windhoek FIC
10.	*Additional information (limitation of service, etc.)*	Nil

FYWB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY R	*TRUE BRG*	*Dimensions of RWY (M)*	*Strength (LCN) and surface of RWY and SWY*	*THR coordinates* *RWY end coordinates* *THR geoid undulation*	*THR Elevation and Highest Elevation of TDZ of Precision APP RWY*
1	2	3	4	5	6
09	071.97°	1 674.891X60	Asphalt	225858.45S 0143807.81E 225858.51S 0143807.58E GUND 96.8 FT	248 FT
27	251.97°	1 674.891X60	Asphalt	225837.12S 0143918.62E 225837.05S 0143918.82E GUND 96.8 FT	299 FT

Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	8	9	10	11	12
Nil info	29.59	293.417	Nil info	Nil info	Simultaneous movement of aircraft on RWY 09/27 and parallel TWY is not allowed due to insufficient separation distance between the RWY centreline and the TWY centreline
Nil info	1794.996	1944.699	Nil info	Nil info	Simultaneous movement of aircraft on RWY 09/27 and parallel TWY is not allowed due to insufficient separation distance between the RWY centreline and the TWY centreline

FYWB AD 2.13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA(M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
09	3440	3440	3440	3440	Nil
27	3440	3440	3440	3440	Nil

FYWB AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	*APCH LGT type LEN INTST*	*THR LGT colour WBAR*	*VASIS (MEHT) PAPI*	*TDZ, LGT, LEN*	*RWY Centre line LGT length, spacing, colour, INTST*
1	2	3	4	5	6
09	Simple APCH 900M	Green	PAPI, Left/3° (30FT) Right/ 3,75° (28FT)	NIL	3390M, 15M, white middle and red end
27	CATIII 900M LIH	Green	PAPI, Left/ 3° (69FT) Right/2,75° (40FT)	875M	3390M, 15M, white middle and red end

RWY edge LGT LEN spacing colour INTST	*RWY End LGT colour WBAR*	*SWY LGT LEN (M) colour*	*Remarks*
7	8	9	10
3360 m, 60m, white, LIH	Red	40M Yellow and red	NIL
3360 m, 60m, white, LIH	Red	40M Yellow and red	Landing can only be done 1765M from APCH RWY 27

FYWB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	*ABN/IBN location, characteristics and hours of operation*	ABN - FLG F/W IBN
2.	*Anemometer location and LGT*	Due South of TWR Anemometer - LGT
3.	*TWY edge and centre line lighting*	TWY edge lights are only available at intersection “C”
4.	*Secondary power supply/switch-over time*	Standby Power supply available Switch over time: 7 Seconds
5.	*Remarks*	2X 400 KVA Cummins power generator sets

FYWB AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYWB AD 2.17 ATS AIRSPACE

1.	*Designation and lateral limits*	Walvis Bay CTR Lateral limits 225100.61S 0144701.68E – Clockwise along the arc of a circle, radius 10NM centred at 225828.55S 0143947.08E – 230414.63S 0144839.60E – 230833.04S 0143421.75E – clockwise along the arc of a circle, radius 10NM centred at 225903.14S 0143752.23E – 225657.72S 0142716.09E to point of origin.
2.	*Vertical limits*	GND/2500FT AMSL
3.	*Airspace classification*	C
4.	*ATS unit call sign* *Language(s)*	Walvis Bay Tower English
5.	*Transition altitude*	10 000 FT MSL
6.	*Remarks*	1. Speed restrictions apply in FYWB TMA. Refer FYWB AD 2.22 Flight procedures. 2. Use FYWB QNH within the lateral confines of FYWB TMA at and below 10000FT AMSL. Refer ENR 2.1-6 Note 2. 3. All traffic operating in Class G airspace within the lateral confines of the FYWB TMA, must contact Walvis Bay Approach on 122.5MHz for Flight Information Service.

FYWB AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	2	3	4	5
Tower/APP	Walvis Bay Tower	122.5 MHz	MON - FRI: 0600 – 1600 SAT - SUN: 0700 – 1500	Combined service for Tower, Approach and Flight Information All times UTC
ATIS	Walvis Bay ATIS	127.0 MHz	H24	Fully operational 50NM radius around airport on this FREQ 127.0MHz or TEL 0813323509

FYWB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	*ID*	*Frequency*	*Hours of Operation*	*Position of transmitting antenna co-ordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	2	3	4	5	6	7
VOR/DME (13°W/2016)	WBV	113.6 MHz CH 83X	H24	225855.59S 0143840.48E	299 FT	Nil
LOC 27 (13°W/2016) ILS CAT I (13°W or 265°)	WBI	109.3 MHz	H24	225905.09S 0143745.74E	223 FT	Nil
GP 27		332.0 MHz	H24	225835.82S 0143937.28E	311 FT	3°, RDH 50FT
RNP APCH	N/A	1575.42MHz	H24	N/A	N/A	Transmitting antennas are satellite based

FYWB AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

1.1 Circuit Altitude:

a) Turbine-powered aircraft 2000 FT ALT

b) Reciprocating engine powered aircraft 1500FT ALT

1.2 All pilots operating at Walvis Bay aerodrome must wear a lime green reflective jacket depicting their airlines concerned on the rear of the jacket for safety reasons as well as easy identification

2. Taxiing to and from stands

Nil procedures.

3. Parking area for small aircraft (general aviation)

Nil procedures.

4. Parking area for helicopters

On apron.

Apron - Taxiing during winter conditions

Nil procedures

5. Taxiing - Limitations

Nil limits.

6. School and training flights - Technical test flights - Use of runways

Nil facilities.

7. Helicopter traffic - Limitation

Nil limits.

8. Removal of disabled aircraft from runways

Nil facilities.

FYWB AD 2.21 NOISE ABATEMENT PROCEDURES

Nil procedures.

FYWB AD 2.22 FLIGHT PROCEDURES

Radio Communication Failure

a) Aircraft to join overhead the Aerodrome at 2000 feet AGL
b) Observe and join the Aerodrome TFC
c) Make all turns to the left whenever possible
d) Land as soon as possible and report to the ATC

Speed Restriction:

Speed restrictions within Walvis Bay TMA for arriving and departing aircraft, MAX IAS 250KT restriction applies at and below A100. Speed is mandatory and must be complied with. ATC may vary the speeds for traffic management purposes.

FYWB AD 2.23 ADDITIONAL INFORMATION

Model flying activities taking place on weekends 5NM southwest of FYWB at position 230237S 0143515E.

Paragliding activities in dunes near Lang strand throughout the year.

FYWB AD 2.24 CHARTS RELATED TO WALVIS BAY

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Area Chart – ICAO (Reserved)	AD 2-15
Instrument Approach Chart – ICAO (Reserved)	AD 2-17
Instrument Approach Chart – ICAO VOR RWY 09	AD 2-19
Data code FYWB VOR RWY 09	AD 2-20
Instrument Approach Chart – ICAO VOR RWY 27	AD 2-21
Data code FYWB VOR RWY 27	AD 2-22
Instrument Approach Chart – ICAO RNP RWY 09	AD 2-23
Data code FYWB RNP RWY 09	AD 2-24
Instrument Approach Chart – ICAO RNP RWY 27	AD 2-25
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CTR Chart	AD 2-27
VFR Entry/Exit points	AD 2-28
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Namib Naukluft Desert Special Rules Area	AD 2-31

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Aerodrome Chart – ICAO (Reserved)

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Area Chart – ICAO (Reserved)

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Instrument Approach Chart – ICAO (Reserved)

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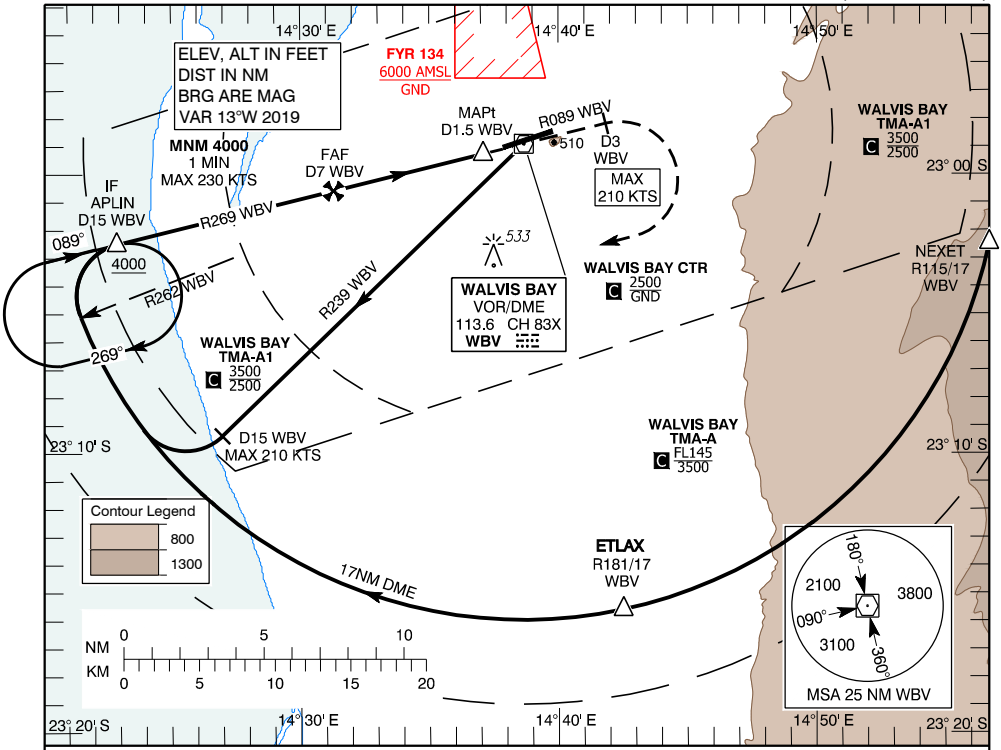
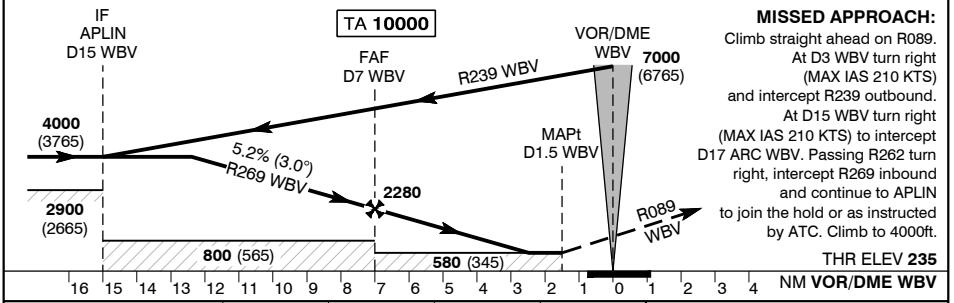
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **299 FT**
HEIGHT RELATED TO
THR RWY - **09** ELEV - **235 FT**

TWR	122.50
ATIS	127.00

WALVIS BAY (FYWB)
VOR RWY 09
(CAT A, B, C, D)





MISSED APPROACH:
Climb straight ahead on R089.
At D3 WBV turn right
(MAX IAS 210 KTS)
and intercept R239 outbound.
At D15 WBV turn right
(MAX IAS 210 KTS) to intercept
D17 ARC WBV. Passing R262 turn
right, intercept R269 inbound
and continue to APLIN
to join the hold or as instructed
by ATC. Climb to 4000ft.

THR ELEV **235**

Aircraft CAT		A	B	C	D
MDA (OCH) VIS	Straight-in	**580** (345) 1400m			
	Circling	**870** (571) 1900m	**940** (641) 2800m	**1160** (861) 3700m	**1240** (941) 4600m
Dist fm WBV DME	NM	6	5	4	3	2
Altitude	FT	1965	1645	1325	1005	685
Ground Speed	KTS	80	100	120	140	160
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850

NOTES:
1. WBV DME required.
2. GNSS permitted in lieu of DME. Reference waypoint WBV VOR.

Circling to the NORTH prohibited

CHANGES: NEW

RWY 09 VOR Approach

Descent Angle:	3 °						
Fix	IAF 1 / NEXET	IAF 2 / ETLAX	IF / APLIN D15 WBV	FAF D7 WBV	MAPt D1.5 WBV	MATP D3 WBV	MATP D15 WBV
Fix Coordinates	230227.80S 0145641.80E	231536.47S 0144230.16E	230230.44S 0142253.39E	230036.23S 0143117.83E	225917.24S 0143705.41E	225812.39S 0144149.96E	230922.48S 42657.96E
Fix Formation Bearing °T	102.03 WBV	168.03 WBV	256.18 WBV	256.18 WBV	256.18 WBV	076.18 WBV	226.00 WBV
Fix Formation Distances	17.0 WBV	17.0 WBV	15.0 WBV	7.0 WBV	1.5 WBV	3.0 WBV	15.0 WBV

Holding Identification

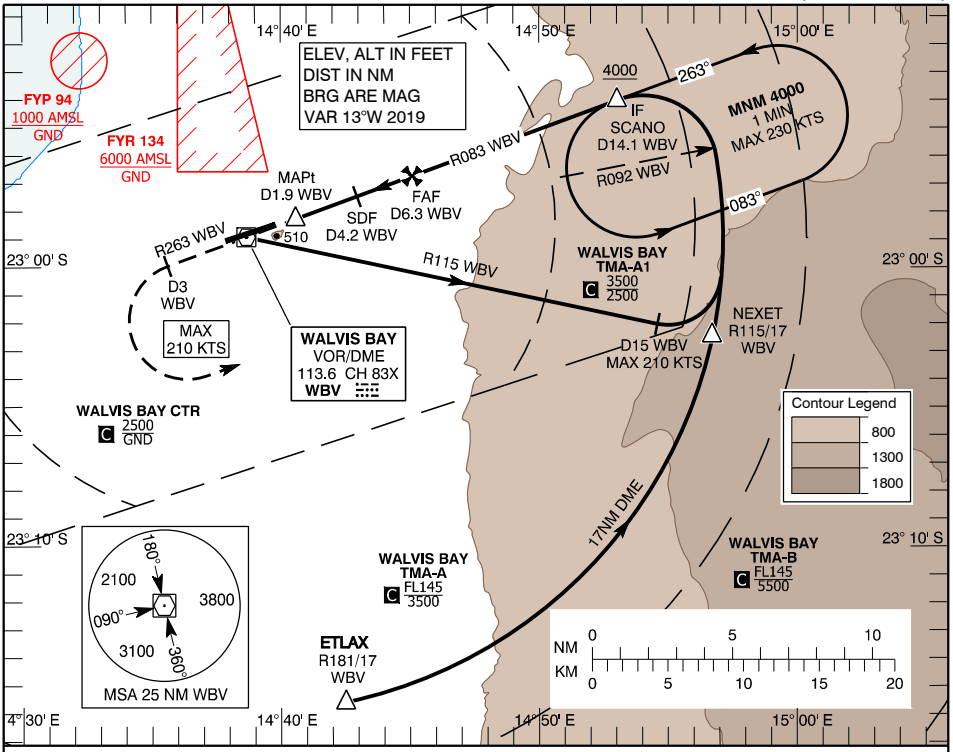
Holding Fix	Latitude / Longitude	Inbound True Track (degrees)	Inbound Magnetic Track (degrees)	Maximum Indicated Airspeed (kts)	Maximum/ Minimum Holding Altitude (ft)	Limiting Time (min)	Direction of Turn
APLIN	230230.44S 0142253.39E	076.31	089	230	- / 4000	1	R

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **299 FT**
HEIGHT RELATED TO
THR RWY - **27** ELEV - **317 FT**

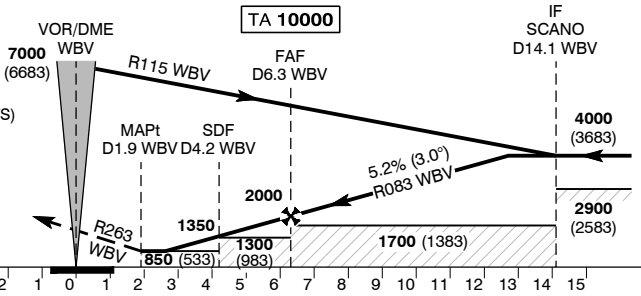
TWR	122.50
ATIS	127.00

WALVIS BAY (FYWB)
VOR RWY 27
(CAT A, B, C, D)



MISSED APPROACH:
Climb straight ahead on R263.
At D3 WBV turn left
(MAX IAS 210 KTS)
and intercept R115 outbound.
At D15 WBV turn left (MAX IAS 210 KTS)
to intercept D17 ARC WBV.
Passing R092 turn left, intercept R083
inbound and continue to SCANO
to join the hold or as instructed
by ATC. Climb to 4000ft.

THR ELEV **317**



Aircraft CAT		A	B	C	D
MDA (OCH) VIS	Straight-in	**850** (533) 2200m			
	Circling	**870** (571) 2200m	**940** (641) 2800m	**1160** (861) 3700m	**1240** (941) 4600m
Dist fm WBV DME	NM	3	4	5	6
Altitude	FT	965	1285	1605	1920
Ground Speed	KTS	80	100	120	140	160
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850

NOTES:
1. WBV DME required.
2. GNSS permitted in lieu of DME. Reference waypoint WBV VOR.

Circling to the NORTH prohibited

CHANGES: NEW

RWY 27 VOR Approach

Descent Angle:	3 °							
Fix	IAF 1 ETLAX	IAF 2 NEXET	IF SCANO D14.1 WBV	FAF D6.3 WBV	SDF D4.2 WBV	MAPt D1.9 WBV	MATP D3.0 WBV	MATP D15.0 WBV
Fix Coordinates	231536.47S 0144230.16E	230227.80S 0145641.80E	225402.31S 0145300.9	225644.71S 0144505.08E	225728.37 0144256.90E	225816.77S 0144034.65E	225957.82S 0143537.27E	230202.55S 0145434.88E
Fix Formation Bearing °T	168.03 WBV	102.03 WBV	069.84 WBV	069.84 WBV	069.84 WBV	069.84 WBV	249.84 WBV	102.00 WBV
Fix Formation Distance	17.0 WBV	17.0 WBV	14.1 WBV	6.3 WBV	4.2 WBV	1.9 WBV	3.0 WBV	15.0 WBV

Holding Identification

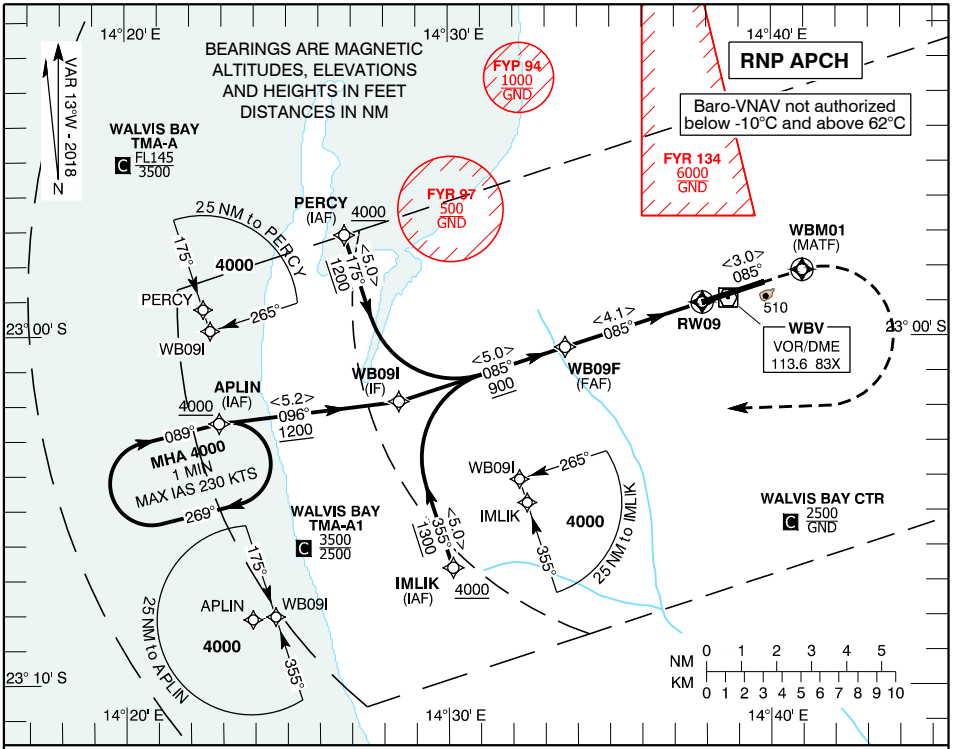
Holding Fix	Latitude / Longitude	Inbound True Track (degrees	Inbound Magnetic Track (degrees)	Maximum Indicated Airspeed (kts)	Maximum/ Minimum Holding Altitude (ft)	DME distance (NM)	Direction of Turn
IF / SCANO	225402.31S 0145300.97E	249.72	262.72	230	- / 4000	14.0	L

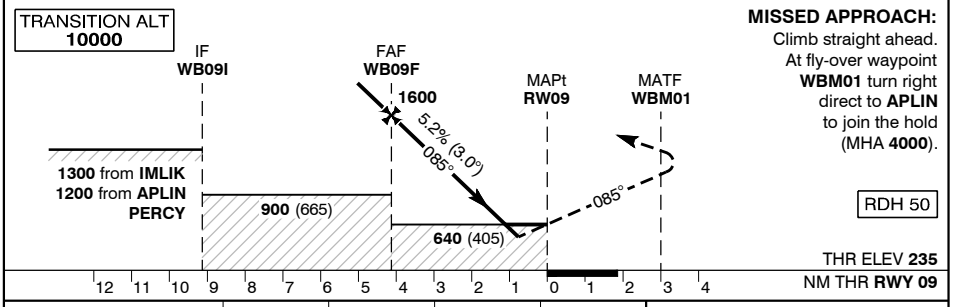
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **299 FT**
HEIGHT RELATED TO
THR RWY - **09** ELEV - **235 FT**

TWR	122.50
ATIS	127.00

WALVIS BAY (FYWB)
RNP RWY 09





MISSED APPROACH:
Climb straight ahead.
At fly-over waypoint **WBM01** turn right direct to **APLIN** to join the hold (MHA **4000**).

Aircraft CAT		A	B	C	D
MDA (OCH) VIS	LNAV	**640** (405) 1700			
	LNAV/VNAV	**530** (295) 1200	**540** (305) 1200	**550** (315) 1200	**560** (325) 1300
Distance to MAPt	NM	4	3	2	
Altitude	FT	**1560** (1325)	**1240** (1005)	**920** (685)	
Ground Speed	KTS	80	100	120	140	160
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850

NOTES:
1. MAX IAS 250 KTS at and below 10000.
2. Descent gradient greater than 5.6% (3.2°) from IMLIK and PERCY.

CHANGES: NEW

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	IMLIK	23°06'39.14"S / 014°30'08.09"E	-	-	-	-	- / 4000	-		IAF
2	RNP APCH	TF	WB09I	23°01'52.87"S / 014°28'27.53"E	N	342.0 / 355	5.0	-	-	-		IF
3	RNP APCH	TF	WB09F	23°00'19.93"S / 014°33'36.84"E	N	072.0 / 085	5.0	-	- / 1600	-		FAF
4	RNP APCH	TF	RW09	22°59'03.14"S / 014°37'52.23"E	Y	072.0 / 085	4.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	WBM01	22°58'07.36"S / 014°40'57.75"E	Y	072.0 / 085	-	-	-	-		WBV 082° / WBV D 2.3
6	RNP APCH	DF	APLIN	23°02'30.44"S / 014°22'53.39"E	N	-	-	R	-	230		IAF

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	APLIN	23°02'30.44"S / 014°22'53.39"E	-	-	-	-	- / 4000	-	-	IAF
2	RNP APCH	TF	WB09I	23°01'52.87"S / 014°28'27.53"E	N	083.1 / 096	5.2	-	-	-	-	IF
3	RNP APCH	TF	WB09F	23°00'19.93"S / 014°33'36.84"E	N	072.0 / 085	5.0	-	- / 1600	-	-	FAF
4	RNP APCH	TF	RW09	22°59'03.14"S / 014°37'52.23"E	Y	072.0 / 085	4.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	WBM01	22°58'07.36"S / 014°40'57.75"E	Y	072.0 / 085	-	-	-	-	-	WBV 082° / WBV D 2.3
6	RNP APCH	DF	APLIN	23°02'30.44"S / 014°22'53.39"E	N	-	-	R	-	230	-	IAF

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	PERCY	22°57'06.57"S / 014°26'47.08"E	-	-	-	-	- / 4000	-	-	IAF
2	RNP APCH	TF	WB09I	23°01'52.87"S / 014°28'27.53"E	N	162.0 / 175	5.0	-	-	-	-	IF
3	RNP APCH	TF	WB09F	23°00'19.93"S / 014°33'36.84"E	N	072.0 / 085	5.0	-	- / 1600	-	-	FAF
4	RNP APCH	TF	RW09	22°59'03.14"S / 014°37'52.23"E	Y	072.0 / 085	4.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	WBM01	22°58'07.36"S / 014°40'57.75"E	Y	072.0 / 085	-	-	-	-	-	WBV 082° / WBV D 2.3
6	RNP APCH	DF	APLIN	23°02'30.44"S / 014°22'53.39"E	N	-	-	R	-	230	-	IAF

Hold Identification

Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude/ Level (FL/ft)	Maximum Holding Altitude/ Level (FL/ft)	Distance outbound limit (NM) /Outbound time (min)	Direction of Turn
APLIN	23°02'30.44"S / 014°22'53.39"E	076.0	089	230	4000	-	1 min	R

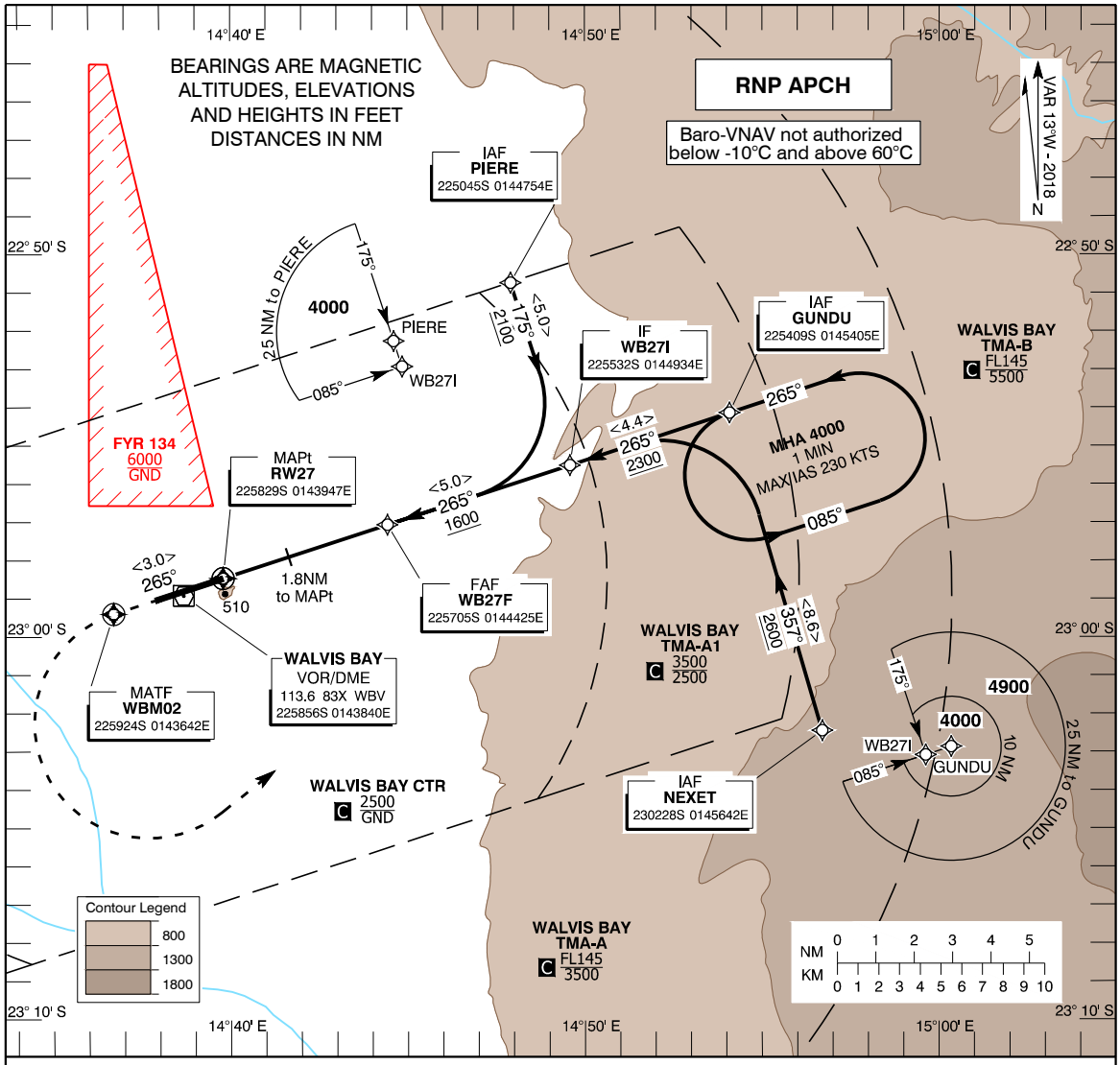
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **299 FT**
HEIGHT RELATED TO
THR RWY - **27** ELEV - **316 FT**

TWR	122.50
ATIS	127.00

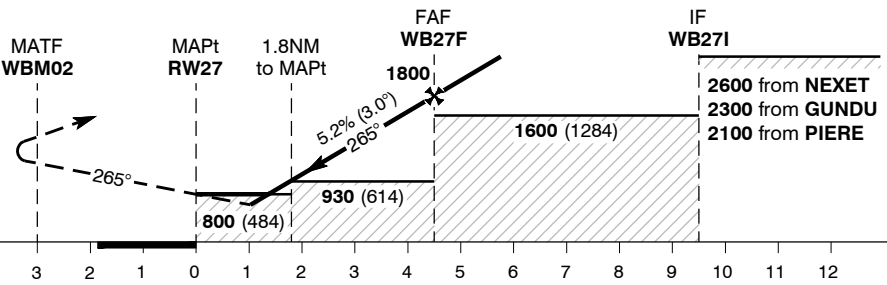
WALVIS BAY (FYWB)

RNP RWY 27



MISSED APPROACH:
Climb straight ahead.
At fly-over waypoint **WBM02** turn left direct to **GUNDU** to join the hold (MHA **4000**).

TRANSITION ALT **10000**



Aircraft CAT		A	B	C	D
MDA (OCH) VIS	LNAV	**800** (484) 1500			
	LNAV/VNAV	**690** (374) 1000	**700** (384) 1100	**710** (394) 1100	**720** (404) 1200

Distance to MAPt	NM	2		3		4
Altitude	FT	**1005** (689)		**1320** (1004)		**1640** (1324)
Ground Speed	KTS	80	100	120	140	160
Rate of Descent (3.0°)	FT/MIN	425	530	635	745	850

NOTES:
1. MAX IAS 250 KTS at and below 10000.

CHANGES: NEW

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	Remarks
1	RNAV 1	IF	NEXET	23°02'27.80"S / 014°56'41.80"E	-	-	-	-	- / 4000	-	IAF
2	RNAV 1	TF	GUNDU	22°54'09.29"S / 014°54'04.80"E	N	343.7 / 357	8.6	-	- / 2600	-	IAF

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	PIERE	22°50'45.32"S / 014°47'54.13"E	-	-	-	-	- / 4000	-	-	IAF
2	RNP APCH	TF	WB27I	22°55'31.62"S / 014°49'34.50"E	N	162.0 / 175	5.0	-	-	-	-	IF
3	RNP APCH	TF	WB27F	22°57'04.72"S / 014°44'25.42"E	N	252.0 / 265	5.0	-	- / 1800	-	-	FAF
4	RNP APCH	TF	RW27	22°58'28.55"S / 014°39'47.08"E	Y	252.0 / 265	4.5	-	-	-	3.00 / 50	-
5	RNP APCH	CF	WBM02	22°59'24.42"S / 014°36'41.57"E	Y	252.0 / 265	-	-	-	-	-	WBV 268° / WBV D 1.9
6	RNP APCH	DF	GUNDU	22°54'09.29"S / 014°54'04.80"E	N	-	-	L	-	230	-	IAF

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track [°] / Magnetic track [°]	Distance [nm]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	GUNDU	22°54'09.29"S / 014°54'04.80"E	-	-	-	-	- / 4000	-	-	IAF
2	RNP APCH	TF	WB27I	22°55'31.62"S / 014°49'34.50"E	N	251.8 / 265	4.4	-	-	-	-	IF
3	RNP APCH	TF	WB27F	22°57'04.72"S / 014°44'25.42"E	N	252.0 / 265	5.0	-	- / 1800	-	-	FAF
4	RNP APCH	TF	RW27	22°58'28.55"S / 014°39'47.08"E	Y	252.0 / 265	4.5	-	-	-	3.00 / 50	-
5	RNP APCH	CF	WBM02	22°59'24.42"S / 014°36'41.57"E	Y	252.0 / 265	-	-	-	-	-	WBV 268° / WBV D 1.9
6	RNP APCH	DF	GUNDU	22°54'09.29"S / 014°54'04.80"E	N	-	-	L	-	230	-	IAF

Hold Identification

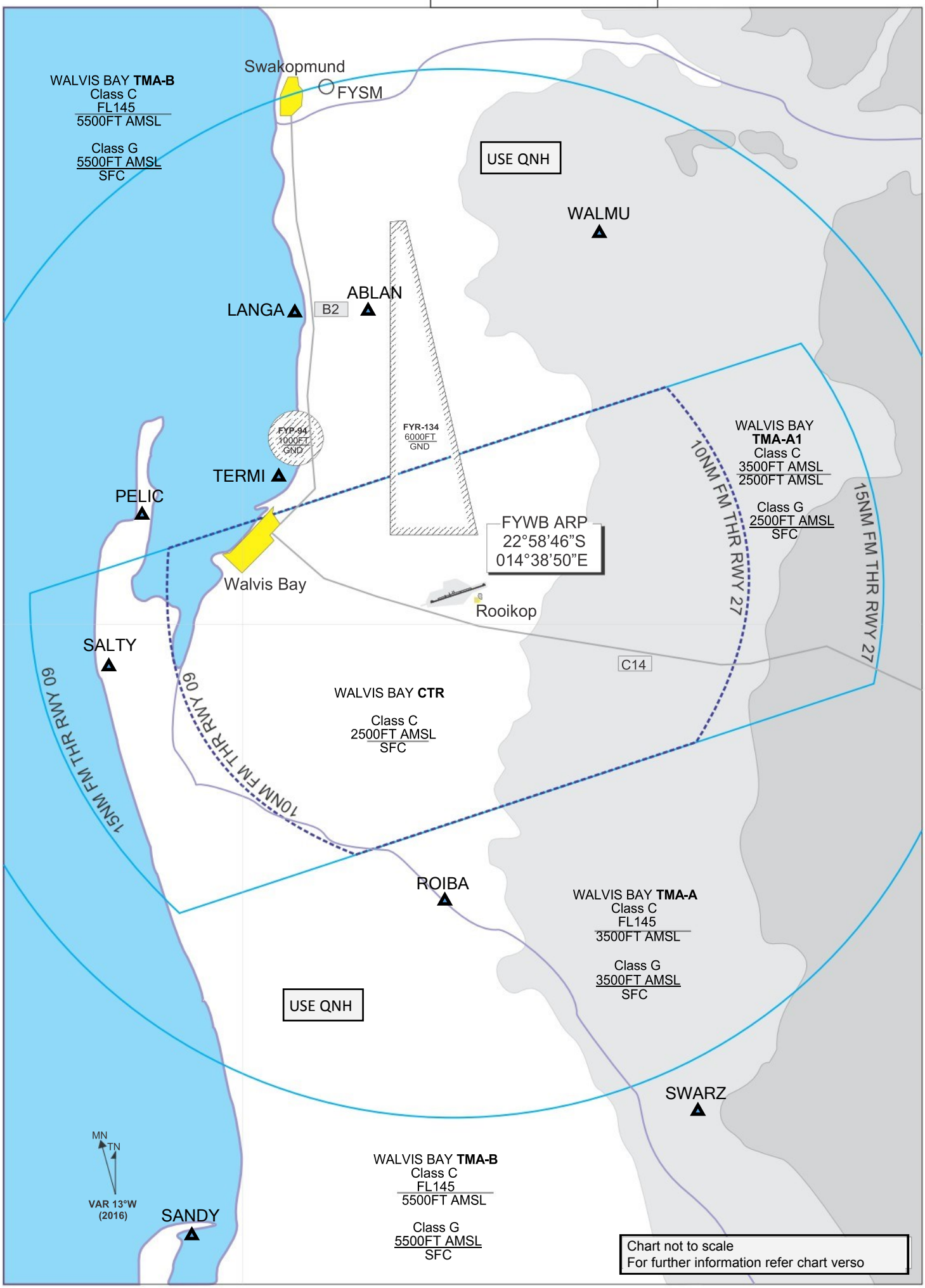
Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude/ Level (FL/ft)	Maximum Holding Altitude/ Level (FL/ft)	Distance outbound limit (NM) /Outbound time (min)	Direction of Turn
GUNDU	22°54'09.29"S / 014°54'04.80"E	251.8	265	230	4000	-	1 min	L

AERODROME ELEV 317'

TA 10000FT

WALVIS BAY:
TWR 122.5 Mhz
ATIS 127.0 Mhz

WALVIS BAY (FYWB) CTR



Com failure:

1. Squawk 7600;
2. If possible, phone TWR +264 64 702690;
3. Join overhead the aerodrome at 2000FT AMSL;
4. Observe and join the TFC circuit;
5. Transmit your intentions at all times;
6. Make all turns LEFT where possible;
7. Ensure landing lights and strobes are on;
8. Watch TWR for optical signals.

Waypoints:

ABLAN	224834S 0143534E
LANGA	224834S 0143238E
PELIC	225542S 0142606E
ROIBA	231046S 0143858E
SALTY	230045S 0142429E
SANDY	232228S 0142828E
SWARZ	231834S 0144916E
TERMI	225418S 0143118E
TOWER	225838S 0143841E
VOGEL	230305S 0145951E
WALMU	224600S 0144416E

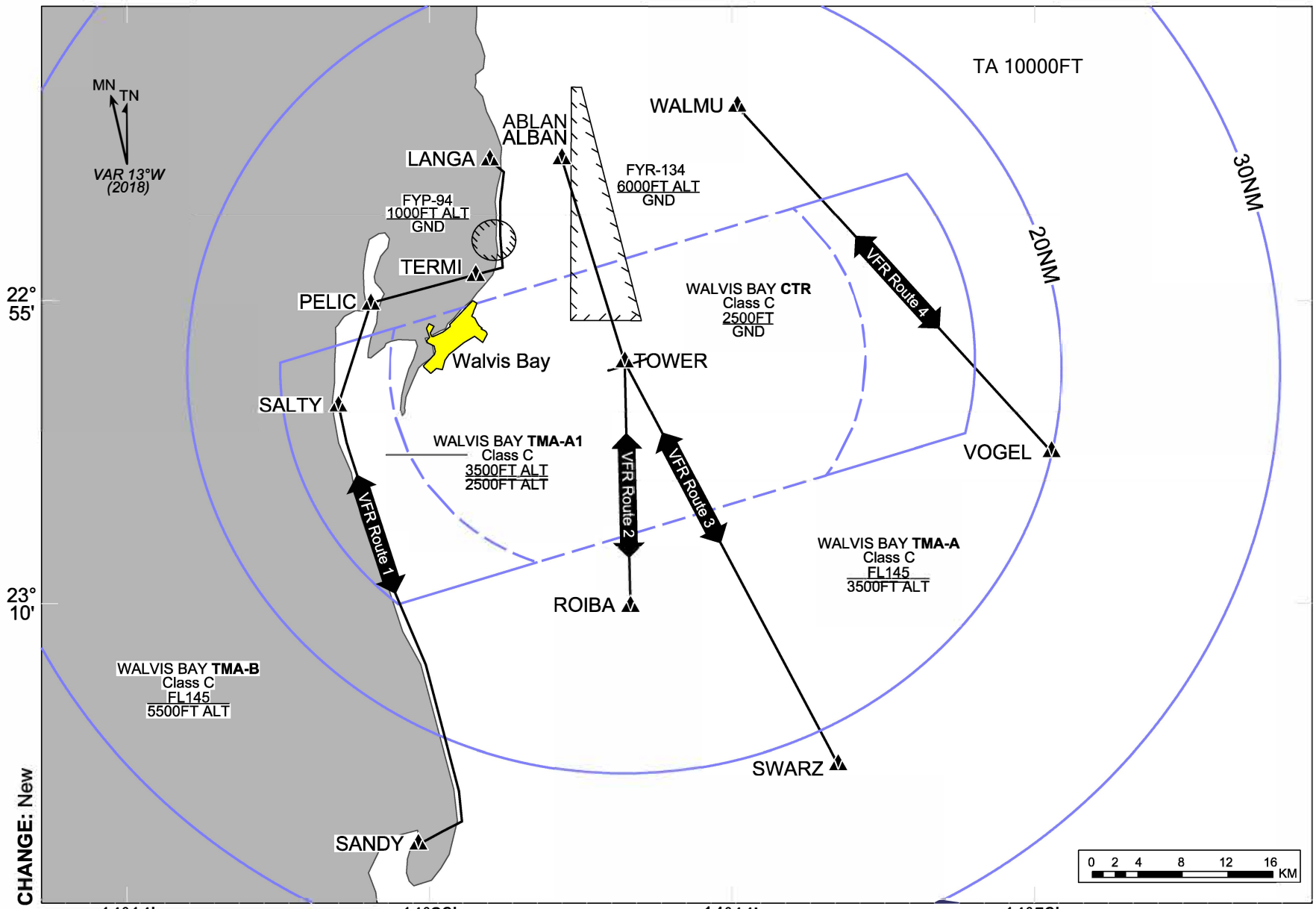
Waypoints must be spoken as:

ABLAN	East Abeam Langstrand
LANGA	Langstrand
PELIC	Pelican Point
SALTY	Salt Works
SANDY	Sandwich Harbour
SWARZ	Swarzbank Berg
TERMI	Oil Terminal
TOWER	Overhead Walvis Bay Tower
VOGEL	Vogelfederberg
WALMU	Walmund Power Station

AREA CHART

VFR ROUTES 1, 2, 3, 4

WALVIS BAY (FYWB) TMA



CHANGE: New

VFR Route 1:
NOTE: no ATC clearance required when tracking via VFR Route 1.
Contact Walvis Bay TWR 122.50MHz at Sandwich Harbour (SANDY) or Langstrand (LANGA) and advise:
"Walvis Bay Tower, *Callsign,* Sandwich Harbour/Langstrand, tracking via VFR Route 1", at *xxxxFT*.
Bidirectional Not above 2500FT Class of Airspace: G
ENTRY / EXIT: LANGA (Langstrand 22 48 34S 014 32 38E)
ENTRY / EXIT SANDY (Sandwich Harbour 23 22 28S 14 28 28 E)

VFR Route 2:
NOTE: ATC Clearance required.
Contact Walvis Bay Tower 122.05MHZ at East Abeam Langstrand (ABLAN) or Rooibank (ROIBA) for ATC clearance, and advise:
"Walvis Bay Tower *Callsign,* East abeam Langstrand / Rooibank
Tracking via VFR Route2, at *xxxxFT*, request clearance"
Do not proceed until ATC clearance received.
Bidirectional Not above 3500FT, and as cleared by ATC
Class of Airspace: G/C/G
ENTRY / EXIT: ABLAN (East abeam Langstrand 22 48 34 S 014 35 34E)
ENTRY / EXIT ROIBA (Rooibank 23 10 46 S 014 38 58 E)
Aircraft must monitor FYWB TWR 122.50MHz.

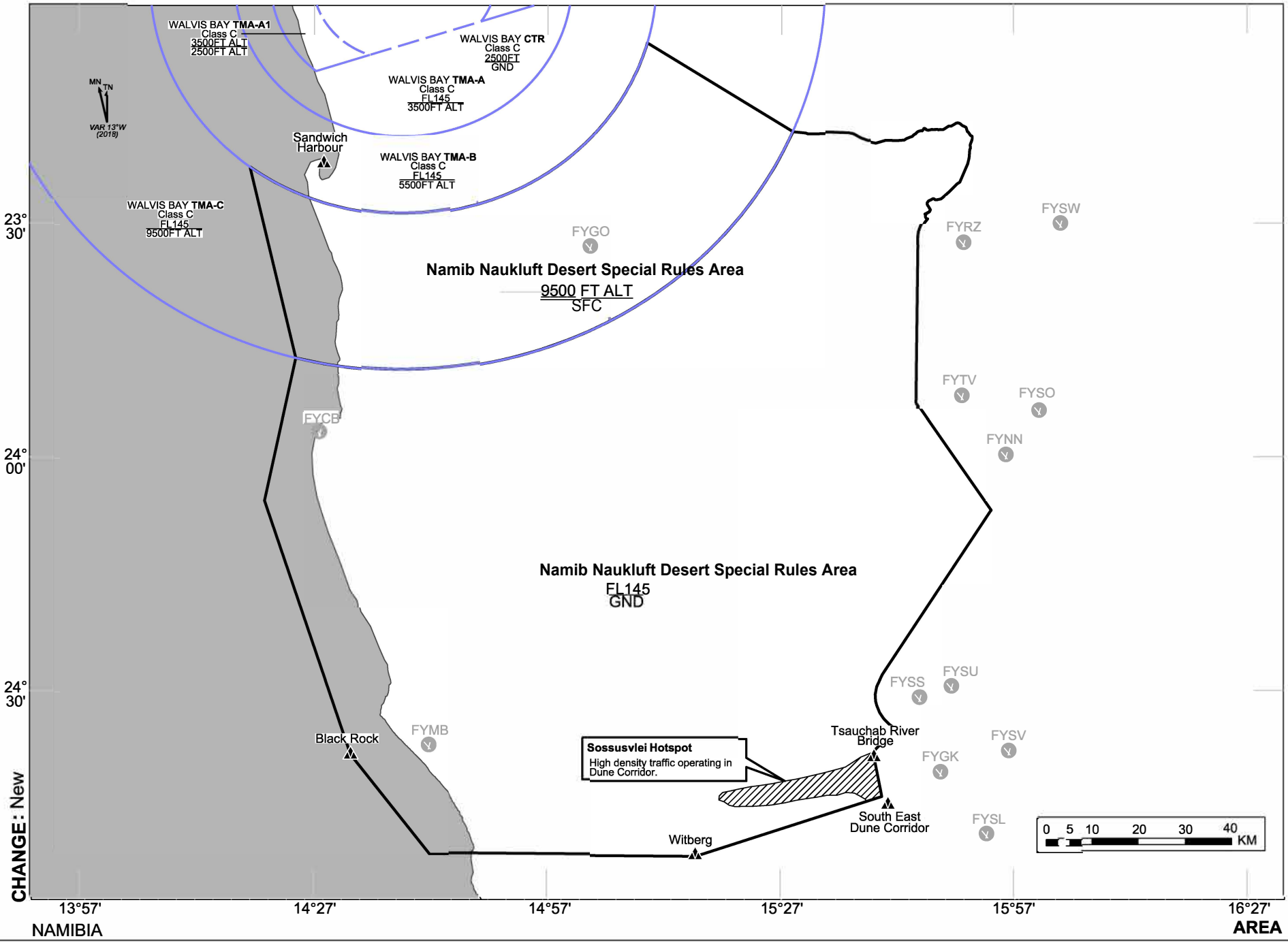
VFR Route 3:
NOTE: ATC Clearance required.
Contact Walvis Bay Tower 122.50MHZ at East Abeam Langstrand (ABLAN), or Swartzbank Berg (SWARZ) for ATC clearance, and advise:
"Walvis Bay Tower *Callsign,* East abeam Langstrand / Swartzbank Berg
Tracking via VFR Route2, at *xxxxFT*, request clearance"
Do not proceed until ATC clearance received.
Bidirectional Not above 3500FT, and as cleared by ATC
Class of Airspace: G/C/G
ENTRY / EXIT: ABLAN (East abeam Langstrand 22 48 34 S 014 35 34E)
ENTRY / EXIT: SWARZ (Swartbank Berg 23°18'34.00"S 14°49'16.00"E)
Aircraft must monitor FYWB TWR 122.50MHz.

VFR Route 4:
NOTE: no ATC clearance required when tracking via VFR Route 4.
Contact Walvis Bay TWR 122.50MHz at Walmund Power Station (WALMU) or Vogelfederberg (VOGEL) and advise:
"Walvis Bay Tower, *Callsign,* Walmund Power Station / Vogelfederberg, tracking via VFR Route 4", at *xxxxFT*.
Bidirectional Not above 2500FT Class of Airspace: G
ENTRY / EXIT: VOGEL (Vogelfederberg 23 03 05 S 014 59 51 E.)
ENTRY / EXIT: WALMU (Walmund Power station 22 46 S 014 44 16 E)
Aircraft must monitor FYWB TWR 122.50MHz.

AREA CHART

NAMIB NAUKLUFT DESERT SPECIAL RULES AREA

WALVIS BAY (FYWB)



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AD 2. AERODROMES

FYWE AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYWE - Windhoek (Eros) Airport

FYWE AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP co-ordinates and site at AD*	223627S 0170445E
2.	*Direction and distance from (city)*	SE 2 NM from Windhoek
3.	*Elevation/reference temperature*	5 575 FT/1 699 M
4.	*MAG VAR/annual change*	12° W (2016)/0.08° decreasing
5.	*AD administration, address, telephone, telefax, telex, AFS*	Namibia Airports Company (NAC) The Airport Manager Private Bag 13357 WINDHOEK ATC Tel: +264 61 702090 S/B Tel: +264 61 2955500 APM Tel: +264 61 2955501 AD Fax: +264 61 2955522 Email: eros@airports.com.na Briefing Office: Tel: +264 61 702080/3/9 Fax: +264 61 702088 Fax to email: +264 88 6561134 Email: aisc@dca.com.na AFS: FYWEZPZX
6.	*Types of traffic permitted (IFR/VFR)*	IFR /VFR
7.	*Remarks*	Public aerodrome, designated port of entry/exit

FYWE AD 2.3 OPERATIONAL HOURS

1.	*AD administration*	AD HO-Summer MON - FRI 0400 - 1900 SAT 0400 - 1800 SUN 0500 – 1800 (All times UTC) AD HO-Winter MON - FRI 0500 - 1900 SAT 0500 - 1800 SUN 0600 – 1800 (All times UTC)
2.	*Customs and immigration*	Hours of duty as AD administration Telephone: +264 61 2092533 or +264 61 232268
3.	*Health and sanitation*	Nil facilities
4.	*AIS briefing office*	AIS Briefing office hours of duty: MON – FRI: 0400 – 1900 SAT: 0400 – 1800 SUN: 0500 – 1800 Tel: + 264 61 702080/3/9 Fax: +264 61 702088 Fax to e-mail: +264 88 6561134 E-mail: aisc@dca.com.na AFS: FYWEZPZX
5.	*ATS reporting office (ARO)*	Hours of duty as AD administration
6.	*MET briefing office*	Hours of duty as AD administration
7.	*ATS*	Hours of duty: MON – FRI: 0400 – 1900 SAT: 0400 – 1800 SUN: 0500 – 1800
8.	*Fuelling*	Fuel hours of duty: MON – FRI: 0600 - 1100 and 1200 - 1600 SAT & SUN: 0600 - 1000 and O/R
9.	*Handling*	Same as AD Administration
10.	*Security*	H24
11.	*De-icing*	Nil
12.	*Remarks*	No aircraft to operate outside AD hours of duty except in an emergency or prior permission obtained (Refer AIC 40.1.1)

FYWE AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	4 Ton
2.	*Fuel/oil types*	AVGAS; AVTUR AO 100 D100; ASO W100, 120
3.	*Fuelling facilities/capacity*	Bowser

4.	*De-icing facilities*	Nil facilities
5.	*Hangar space for visiting aircraft*	Nil
6.	*Repair facilities for visiting aircraft*	West Air/Aviation Centre Air Namibia, Major aircraft and engine repairs
7.	*Remarks*	Fuel Supplier: 1. BP/Air Namibia Tel: +264 61 232900 Radio FREQ: 122.1 MHz 2. Westair/Engen Tel: +26461221091 3. Wings Over Africa Tel/Fax: +264 61 255001/2 (After HR): +26481 368 1578 4. Radio FREQ: 123.40 MHz 5. Company Name: PUMA ENERGY NAMIBIA (PTY) LTD Postal Address: PO Box 3594, Windhoek, Namibia Tel: +264 61 232900 / +27 61 379300 Fax: +264 61 379301 E-mail: efsman@iway.na / paula.kimm@puma-energy.com / Riaan.vanwyk@puma-energy.com Fuel attendant's CTC TEL : +264 61 232900 / +264 811290411 / +264 811295101 After HR CTC TEL: +264 811290097 / +264 811241881

FYWE AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	At AD and in city
2.	*Restaurants*	At AD and in city
3.	*Transportation*	Car hire
4.	*Medical facilities*	International SOS Emergency Ambulance/Flights Telephone: +264 61 230505 Hospitals in city
5.	*Bank and post office*	In city
6.	*Tourist office*	In city
7.	*Remarks*	Nil

FYWE AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	CAT 4
2.	*Rescue equipment*	Fire Tenders: 1. Panther (6X6) - 12500L water, 1500L foam, 250kg dry powder 2. Panther (4x4) - 6200L water, 750L foam and 250 kg dry powder

3.	*Capability for removal of disabled aircraft*	Nil
4.	*Remarks*	Fire fighting services hours of duty: Same as AD under AD 2-2. -8000L water, 1100L foam and 50kg dry powder are for the Standby Fire Engine -Shift A has six (6) and Shift B has six (6) trained Rescue Officers.

FYWE AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYWE AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Asphalt Strength: (PCN) 7/R/D/Y/T
2.	*Taxiway width, surface and strength*	Width: 12 M Surface: Asphalt Strength: NIL INFO
3.	*ACL location and elevation*	Location: THR RWY 27 Elevation: 5579 FT
4.	*VOR/INS checkpoints*	Nil facilities
5.	*Remarks*	Nil

FYWE AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Nil facilities
2.	*RWY and TWY markings and LGT*	RWY: Designation, THR, LDZ, side-stripe and centre line markings TWY: Centre line, holding position at intersection marked
3.	*Stop bars*	Nil facilities
4.	*Remarks*	Nil

FYWE AD 2.10 AERODROME OBSTACLES

In Approach/TKOF areas			In circling areas and at AP		Remarks
1			2		3
RWY/Area affected	*Obstacle Type Elevation Markings/ LGT*	*Co-ordinates*	*Obstacle type Elevation Markings/ LGT*	*Co-ordinates*	
a	b	C	a	b	
01 APCH 19 TKOF	Nil info	Nil info	Nil info	Nil info	Obstructions: 1. 4 Floodlights masts height 115 FT within an area 130 M x 100 M north of APCH RWY 27. Nearest mast 864 M east of Thresh RWY 27 and 128 M north of extended centre line
19 APCH 01 TKOF	Nil info	Nil info	Nil info	Nil info	2. Power line 730 M THR RWY 27 3. Telephone line 152 M THR RWY 09

In Approach/TKOF areas			In circling areas and at AP		Remarks
1			2		3
RWY/Area affected	*Obstacle Type Elevation Markings/ LGT*	*Co-ordinates*	*Obstacle type Elevation Markings/ LGT*	*Co-ordinates*	
a	b	C	a	b	
09 APCH 27 TKOF	Nil info	Nil info	Nil info	Nil info	4. Microwave towers 5,5 NM SSW ELEV 7410FT and 2 NM north ELEV 5610 FT
27 APCH 09 TKOF	Nil info	Nil info	Nil info	Nil info	5. Radio mast 7 NM E on track FYWH position 2233S 01712E height 140 FT GND 6. TV mast 2 NM NE position 223506S 0170628E ELEV 6266 FT with obstruction lights 7. Crane operating in position 223506S 0170439E height 82 FT by day and 32 FT by night 8. High ground to the south, SE and SW of the AD

FYWE AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Windhoek
2.	*Hours of service* *MET office outside hours*	MON – FRI: 0400 – 1800 SAT – SUN: 0400 – 1230, 1430 – 1530, 1730 - 1800
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek 6 HR
4.	*Type of landing forecast* *Interval of issuance*	TREND 2 HR
5.	*Briefing/consultation provided*	T
6.	*Flight documentation* *Language(s) used*	C, TB, PL
7.	*Charts and other information available for briefing or consultation*	S, U, P, W
8.	*Supplementary equipment available for providing information*	WXR, APT
9.	*ATS units provided with information*	ADC
10.	*Additional information (limitation of service, etc.)*	Eros aerodrome meteorological office does not send a metar an hour prior to the operations of the aerodrome.

Mean daily maximum and minimum temperatures (°C) for each month of the year												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Max	31.3	28.7	27.6	26.1	23.1	20.4	21.2	24.1	26.9	29.6	29.6	30.2
Min	17.7	16.3	14.4	9.3	5.7	2.8	2.4	5.2	8.5	12.3	15.3	16.4
Mean pressure for each month of the year at approximate the times of MAX and MIN temperatures in hPa												
Max	827.7	829.0	829.7	830.0	831.1	832.3	833.2	832.1	831.0	829.3	829.3	828.3
Min	828.9	829.6	831.0	831.4	832.4	833.6	834.8	833.8	832.8	830.9	830.3	829.4

FYWE AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE BRG*	*Dimensions of RWY (M)*	*Strength (PCN) and surface of RWY and SWY*	*THR coordinates RWY end coordinates THR geoid undulation*	*THR Elevation and Highest Elevation of TDZ of Precision APP RWY*
1	2	3	4	5	6
01	351.19°	1983 x 30	6/F/D/Y/T Asphalt	223649.88S 0170449.59E GUND 31.8 M	5575 FT
19	171.19°	1983 x 30	6/F/D/Y/T Asphalt	223546.57S 0170439.03E GUND 31.8 M	5510 FT
09	075.54°	1005 x 30	5/F/D/Y/T Asphalt	223648.63S 0170429.47E GUND 31.8 M	5572 FT
27	255.54°	1005 x 30	6/F/D/Y/T Asphalt	223640.57S 0170503.11E GUND 31.8 M	5568 FT

Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	8	9	10	11	12
Nil INFO	Nil INFO	Nil INFO	Nil INFO	Nil INFO	1. Slurry seal on RWY 09/27 2. RWY 19 touchdown displaced by 300 M from THR 3. Due to Non-simultaneous operations on the manoeuvring area at FYWH X all traffic intending to depart from FYWE to FYWH are required to request for a start up clearance from FYWE Tower

FYWE AD 2.13 DECLARED DISTANCES

1. The following Declared Distances are available at Eros Airport during daylight operations

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
01	2072	2132	2158	1975	Nil
19	2000	2060	2068	2000	Nil
09	1005	1005	1005	1005	Nil
27	1005	1005	1005	1005	Nil

2. The following Declared Distances are available at Eros Airport during night operations

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
01	1975	1975	1975	1975	Nil
19	1975	1975	1975	1975	Nil
09	NU	NU	NU	NU	NU
27	NU	NU	NU	NU	NU

FYWE AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	*APCH LGT type LEN INTST*	*THR LGT colour WBAR*	*VASIS (MEHT) PAPI*	*TDZ, LGT, LEN*	*RWY Centre line LGT length, spacing, colour, INTST*
1	2	3	4	5	6
01	Nil info	Green	PAPI, Angle 4.3°	Nil info	Nil info
19	Nil info	Green	PAPI, Angle 3°	Nil info	Nil info

RWY edge LGT LEN spacing colour INTST	*RWY End LGT colour WBAR*	*SWY LGT LEN (M) colour*	*Remarks*
7	8	9	10
1830 M/60 M, White/LIH	Red	Nil info	Last 200M of RWY amber
1830 M/60 M, White/LIH	Red	Nil info	Nil

FYWE AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	*ABN/IBN location, characteristics and hours of operation*	ABN FLG R/W Position 66 M west of RWY 01/19 and 720 M north west of THR 01
2.	*LDI location and LGT* *Anemometer location and LGT*	Nil facilities
3.	*TWY edge and centre line lighting*	Blue TWY (lighting at) intersection opposite TWR
4.	*Secondary power supply/switch-over time*	15 SEC
5.	*Remarks*	Nil

FYWE AD 2.16 HELICOPTER LANDING AREA

The helicopter operator must inform Rescue and Fire fighting personnel via telephone at +264 61-2955510/1, at least 24 hours in advance for the provision of helipad space.

Arrival:

- All helicopters arriving at FYWE must use RWY 01/19 as the Final Approach and Take-off (FATO) area.
- Once the helicopter establishes in the hover, taxi clearance must be requested from ATC on radio frequency 118.7 MHz to hover-taxi to the Touchdown and Lift off (TLOF) area located on the apron.

Departure:

- All helicopters departing from FYWE must use RWY 01/19 as the FATO.
- Once ready for lift off from the approved TLOF, the pilot must request clearance from ATC via radio frequency 118.7 MHz.
- The helicopters will hover-taxi to RWY 01/19 as per the ATC clearance.

FYWE AD 2.17 ATS AIRSPACE

1.	*Designation and lateral limits*	Eros CTR: Lateral Limits 223020.98S 0165816.99E – clockwise along the arc of a circle, radius 8NM centred at 223546.57S 0170439.03E – 222848.97S 0170857.20E – 224215.16S 0171112.18E – clockwise along the arc of a circle, radius 8NM centred at 223649.88S 0170449.59E – 224347.40S 0170030.99E to point of origin
2.	*Vertical limits*	SFC to 7500FT AMSL
3.	*Airspace classification*	C
4.	*ATS unit call sign* *Language(s)*	Eros Tower English
5.	*Transition altitude*	10 000 FT MSL
6.	*Remarks*	1. Speed restrictions apply in FYWE CTR. Refer FYWE AD 2.22 Flight Procedures 2. Use FYWH QNH within lateral confines of Windhoek TMA at and below 10 000 FT AMSL. Refer ENR 2.1-3 Note 2

		3. All traffic operating in Class G airspace beneath FYWH TMA, excluding FYD130, must monitor and/or contact Windhoek Approach FREQ 120.5 MHz.

FYWE AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	2	3	4	5
TWR	Eros Tower	118.7 MHZ	Same as AD under AD 2.3	Co-ordinates S223700 E0170507
APN	Apron	121.7 MHZ	-	Apron control introduction on frequencies 121.7 MHZ, All scheduled, non-scheduled, private and training flights shall establish contact with the apron officer. Contact shall be made prior to landing/departure, if traffic allows, alternatively when released by ATC after vacating the RWY/TWY.
ATIS	Eros ATIS	126.4MHz	H24	Operational 50NM radius around Eros Airport on FREQ 126.4MHz or TEL 0813323508

FYWE AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	*ID*	*Frequency*	*Hours of Operation*	*Position of transmitting antenna co-ordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	2	3	4	5	6	7
RNP APCH	N/A	1575.42MHz	H24	N/A	N/A	Transmitting antennas are satellite based

FYWE AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

1.1 Golf course on final APCH RWY 01. Teeing grounds on left to right of APCH area. Boundary on golf course adjoins south BDRY of AD.

1.2 Circuit ALT: Turbine powered aircraft 7 000 FT ALT. Reciprocating engine powered aircraft 6 500 FT ALT.

1.3 Aircraft operations restricted to domestic, regional intercontinental non-scheduled flights and scheduled regional overnight express freight flights whose empty aircraft weight is less than 5 700kg and a payload not exceeding 1500kg.

1.4 *Night operations*

No flying outside AD Operational Hours.

1.5 All pilots operating at Eros must wear a lime green reflective jacket depicting their airlines concerned on the rear of the jacket for safety reasons as well as easy identification.

2. Taxiing to and from stands

Nil limits.

3. Parking area for small aircraft (general aviation)

3.1 Arriving and departing aircraft on cross-border flights to park on the main apron for immigration and custom clearance.

3.2 All aircraft shall park on the apron prior to departure or after arrival for security checks except for ambulance, training and tests flight. All persons, luggage and cargo shall be directed through the terminal building for access to the airside.

4. Parking area for helicopters

Nil limits.

5. Apron - Taxiing during winter conditions

Nil limits.

6. Taxiing - Limitations

Nil limits.

7. School and training flights - Technical test flights - Use of runways

7.1 Windhoek Flight Training Centre.

7.2 West Air.

7.3 Air Namibia.

7.4 NDF.

8. Helicopter traffic – Limitation

Whenever possible medium and heavy category helicopters should use RWY or when using the TWY, land/depart south of Fire Station

9. Removal of disabled aircraft from runways

Nil limits

.

FYWE AD 2.21 NOISE ABATEMENT PROCEDURES

1. Departure from RWY 01 shall maintain runway heading until passing 6500 feet before a turn is made or passing the State Hospital when departing from RWY 01.

2. Traffic in the Eros circuit will remain west of the western bypass (when joining downwind for RWY 01/19).

3. Simulated engine failure after take-off will be done overhead the David Hosea Meroro Road.

4. Bad weather circuits (training) will be kept to minimum and only between the hours of 08h00 (local) and 17h00 (local).

Note: *Deviations from the above-mentioned procedures are allowed for separation purposes and emergencies.*

FYWE AD 2.22 FLIGHT PROCEDURES

1. General

VFR aircraft approaching EROS via uncontrolled airspace shall plan to enter the CTR via the entry points and at the entry levels as published on the Visual Approach chart for EROS.

2. Procedures for IFR flights within Windhoek (Eros) CTR

RNP Approach Runway 01 for NCAA approved operators only.

3. Procedures within Eros CTR

3.1 Radar vectoring and sequencing

Nil facility.

3.2 Surveillance radar approaches

Nil facility.

3.3 Precision radar approach

Nil facility.

3.4 Communication failure

a) Squawk 7600

b) Phone +264 61 702090.

c) Enter CTR via Toni 8000FT. Proceed to overhead AD. Observe other traffic and make blind transmit.

d) Flash LDG lights and watch TWR for optical signals

4. Speed Restrictions

4.1 Speed restrictions within Eros CTR the following MAX IAS restrictions apply for arriving aircraft within the lateral and vertical confines of the EROS CTR:

For reciprocating engine powered aircraft: MAX IAS 150KT.

For turbine powered aircraft: MAX IAS 185KT. Speeds are mandatory and must be complied with. ATC may vary the speeds for traffic management.

4.2 Speed restriction within the Windhoek TMA for arriving and departing aircraft, MAX IAS 250KT restriction applies at and below FL150.

Speed is mandatory and must be complied with.

ATC may vary the speed for traffic management purposes.

FYWE AD 2.23 ADDITIONAL INFORMATION

1. Bird concentrations in the vicinity of the aerodrome

Large birds and flocks of pigeons in the vicinity of the aerodrome.

2. All flights by night to:

2.1 Depart RWY 01.

2.2 Land RWY 19.

3. Paragliding

NIL

4. Para-jump exercises over weekends.

FYWE AD 2.24 CHARTS RELATED TO WINDHOEK (EROS)

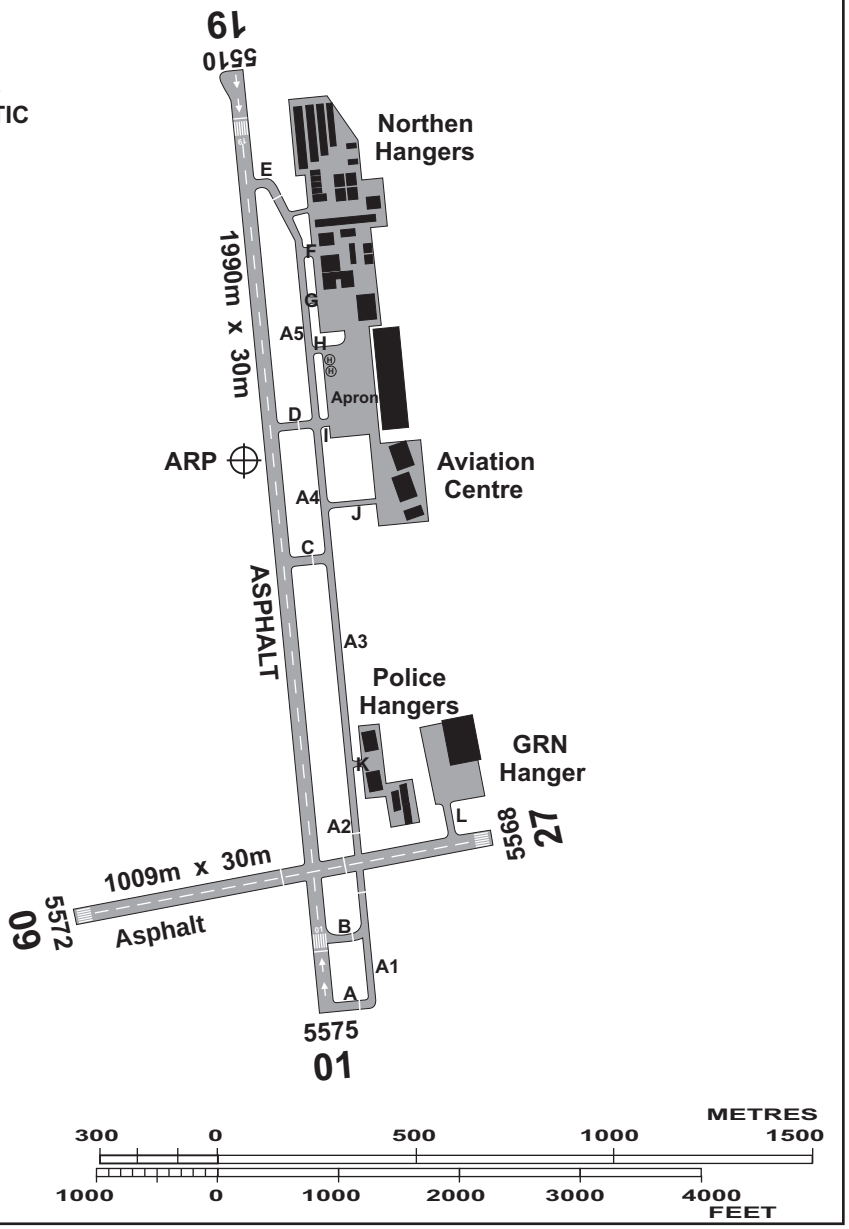
ICAO Charts		
No	Chart Type	Page No
1	Aerodrome Chart-ICAO	FYWE AD 2-15
2	ATC Surveillance Minimum Altitude Chart	FYWE AD 2-17
3	ATC Surveillance Minimum Coordinates	FYWE AD 2-18
4	Instrument Approach Chart – ICAO RNP RWY 01	FYWE AD 2-19
5	Instrument Approach Chart – ICAO RNP RWY 19	FYWE AD 2-21
6	Visual Approach Chart - ICAO	FYWE AD 2-23
7	Additional Information	FYWE AD 2-24
8	VFR Route 1 Chart - ICAO	FYWE AD 2-25
9	VFR Route 2 Chart - ICAO	FYWE AD 2-27

Elev	VAR	ARP	
5575	12°W	S22°36'27" E017°04'45"	

EROS
AERODROME

EROS Tower 118.7	WE - 1 Eff 26 May 16

ALTITUDES IN FEET
DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC



R/W	VASIS	APPROACH	THR	RUNWAY	L.DIST	SLOPE
01 (351°T)	P4.3°	Nil	Gr	LIH	Full	Nil
19 (171°T)	P3°				Full	Nil
09 (076°T)	Nil	Nil	Nil	Nil	Nil	Nil
27 (256°T)					Nil	Nil

OTHER LIGHTING: REDL, RENL

TAXIWAY WIDTHS
12m asphalt.

Rev : VAR

1. Night operations
   - Take off from RWY 01 only
   - Landing on RWY 19 only
2. Night flying training only permitted when ATC is in operation.

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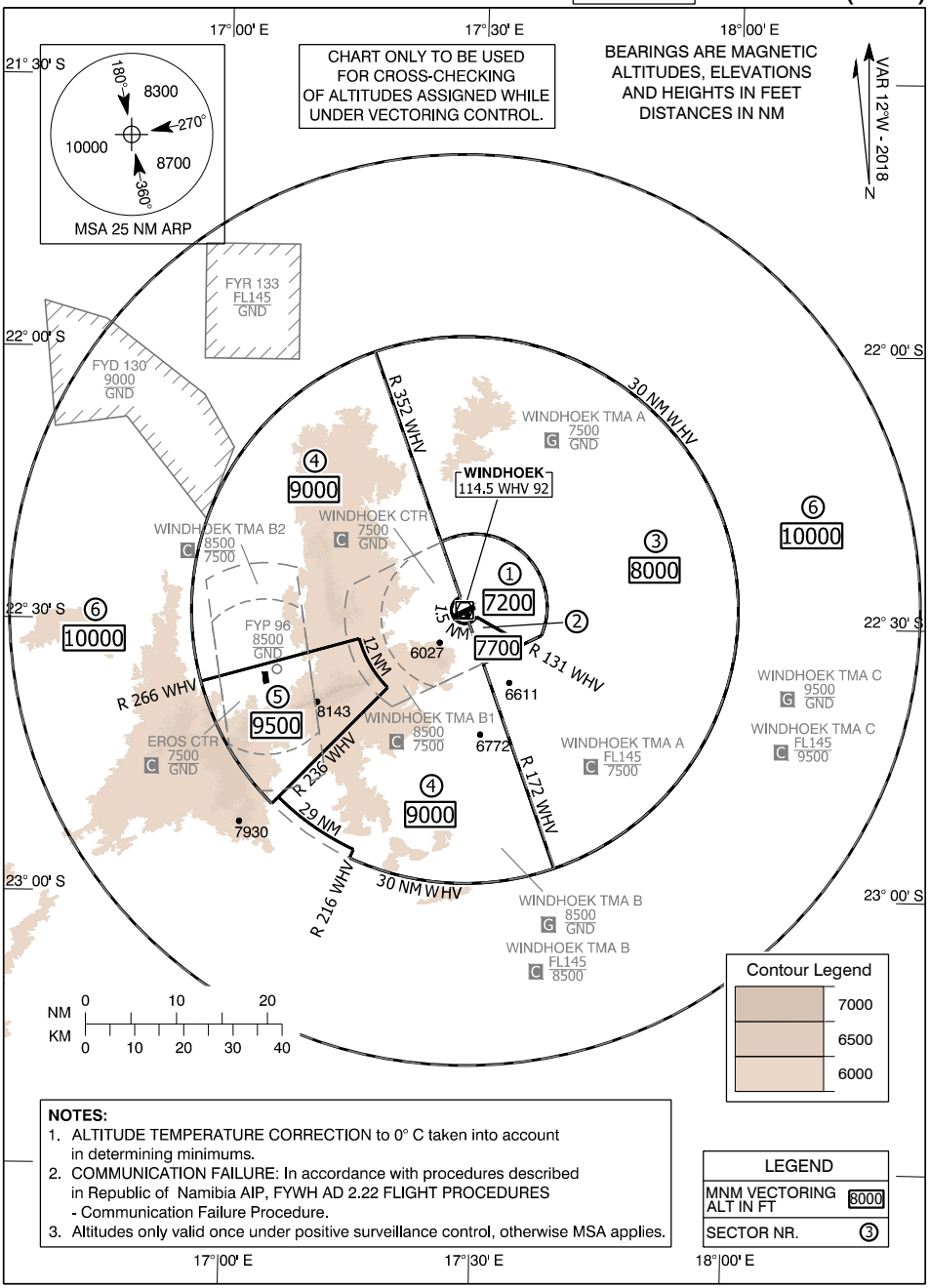
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

AERODROME ELEV - **5641 FT**
TRANSITION ALT - **10000 FT**

ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK
Hosea Kutako/Intl.
(FYWH)



NOTES:

1. ALTITUDE TEMPERATURE CORRECTION to 0° C taken into account in determining minimums.
2. COMMUNICATION FAILURE: In accordance with procedures described in Republic of Namibia AIP, FYWH AD 2.22 FLIGHT PROCEDURES - Communication Failure Procedure.
3. Altitudes only valid once under positive surveillance control, otherwise MSA applies.

LEGEND	
MNM VECTORING ALT IN FT	8000
SECTOR NR.	③

CHANGES: NEW

ATC Surveillance Minimum Altitude Coordinates

Sector 1. MNM ALT 7200 FT
22°21'11"S 017°25'19"E, 22°27'14"S 017°27'41"E,
arc 1.5 NM radius centre 22°28'39"S 017°28'14"E,
22°29'22"S 017°29'39"E, 22°32'16"S 017°35'17"E,
22°31'19"S 017°37'21"E,
arc 8 NM radius centre 22°28'17"S 017°29'21"E,
22°21'05"S 017°25'34"E, 22°21'11"S 017°25'19"E

Sector 2. MNM ALT 7700 FT
22°32'16"S 017°35'17"E, 22°29'22"S 017°29'39"E,
arc 1.5 NM radius centre 22°28'39"S 017°28'14"E,
22°30'03"S 017°28'47"E, 22°34'28"S 017°30'31"E,
22°32'16"S 017°35'17"E

Sector 3. MNM ALT 8000 FT
22°21'11"S 017°25'19"E, 22°00'21"S 017°17'12"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°56'55"S 017°39'21"E, 22°34'28"S 017°30'31"E,
22°31'19"S 017°37'21"E,
arc 8 NM radius centre 22°28'17"S 017°29'21"E,
22°21'05"S 017°25'34"E, 22°21'11"S 017°25'19"E

Sector 4. MNM ALT 9000 FT
22°00'21"S 017°17'12"E, 22°27'14"S 017°27'41"E,
arc 1.5 NM radius centre 22°28'39"S 017°28'14"E,
22°30'03"S 017°28'47"E, 22°56'55"S 017°39'21"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°56'07"S 017°15'01"E, 22°55'13"S 017°15'28"E,
arc 29 NM radius centre 22°28'39"S 017°28'14"E,
22°49'33"S 017°06'26"E, 22°37'18"S 017°19'14"E,
arc 12 NM radius centre 22°28'39"S 017°28'14"E,
22°31'57"S 017°15'47"E, 22°36'53"S 016°57'04"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°00'21"S 017°17'12"E

Sector 5. MNM ALT 9500 FT
22°36'53"S 016°57'04"E, 22°31'57"S 017°15'47"E,
arc 12 NM radius centre 22°28'39"S 017°28'14"E,
22°37'18"S 017°19'14"E, 22°50'16"S 017°05'41"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°36'53"S 016°57'04"E

Sector 6. MNM ALT 10000 FT
22°56'07"S 017°15'01"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°50'16"S 017°05'41"E, 22°49'33"S 017°06'26"E,
arc 29 NM radius centre 22°28'39"S 017°28'14"E,
22°55'13"S 017°15'28"E, 22°56'07"S 017°15'01"E
arc 50 NM radius centre 22°28'39"S 017°28'14"E

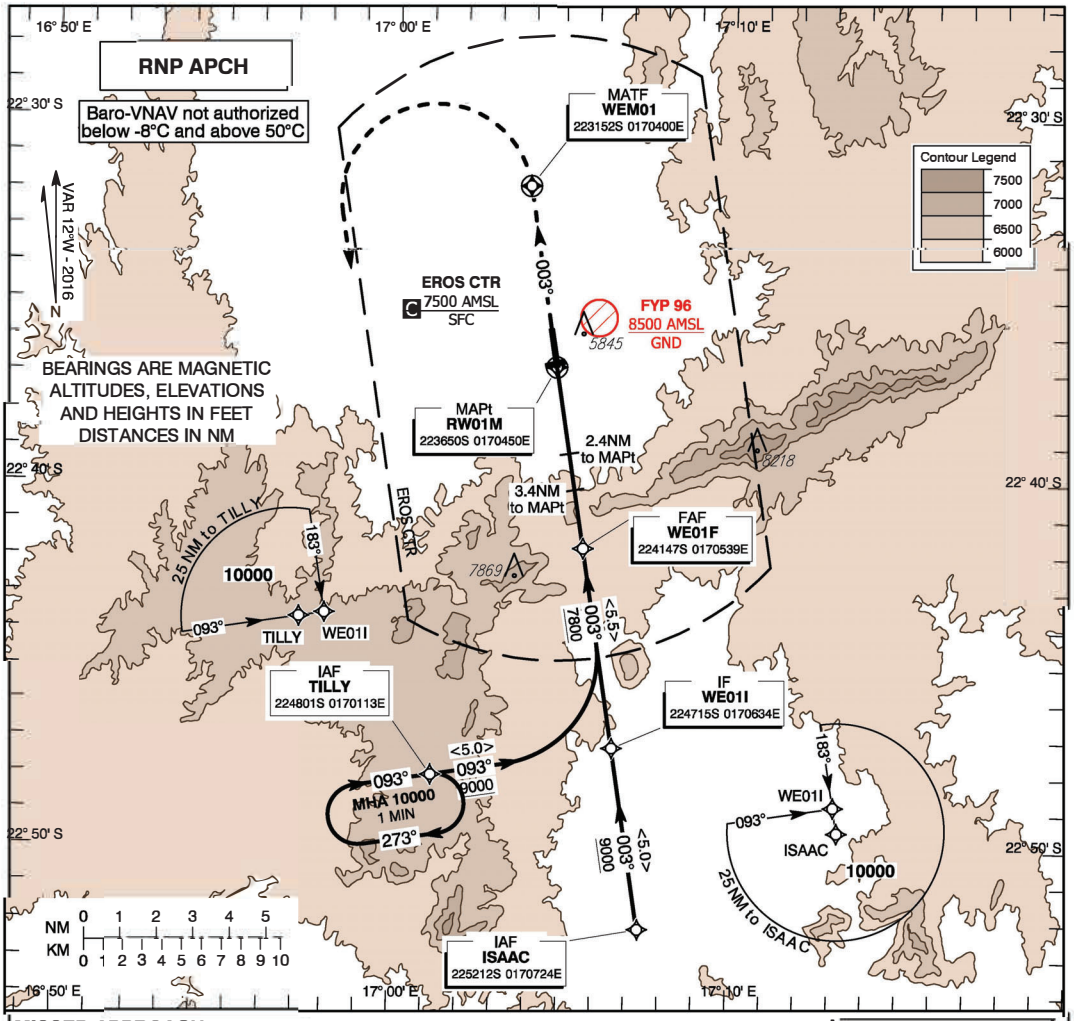
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **5575 FT**
HEIGHT RELATED TO
THR RWY - 01 ELEV - **5575 FT**

ATIS	126.40
APP	120.50
TWR	118.70
APN	121.70

WINDHOEK - Eros/Intl. (FYWE)

RNP RWY 01

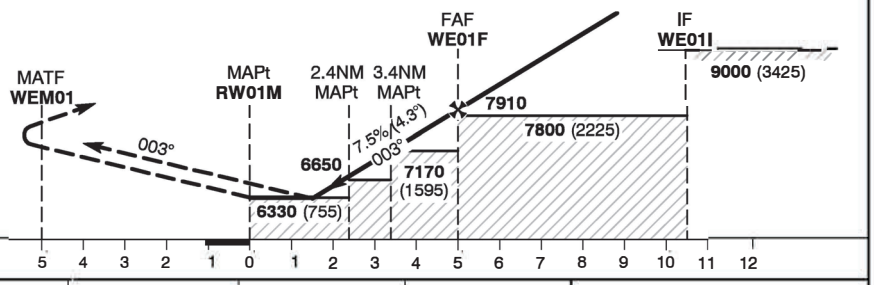


MISSED APPROACH:
Climb straight ahead.
At fly over waypoint **WEM01** turn left direct to **TILLY** to join the hold (MHA **10000**).

RDH 50

THR ELEV **5575**

TRANSITION ALT **10000**



Aircraft cat		A	B	C
MDA (OCH) VIS	LNAV/VNAV	**6310** (735) 3200		
	LNAV	**6330** (755) 3300		

Distance to MAPt	NM	5	4	3	2
Altitude	FT	**7910** (2335)	**7450** (1875)	**6995** (1420)	**6540** (965)
Ground Speed	KTS	80	100	120	140	160
Rate of Descent (4.3°)	FT/MIN	610	760	915	1065	1220

NOTE:
1. Descent gradient greater than 6.1% (3.5°).
2. **Appropriate aircraft and pilot qualifications are required to use this procedure.**
3. Track Shortening inside IAF not permited

CHANGES: New procedure.

Chart created by ASAP s.r.o.

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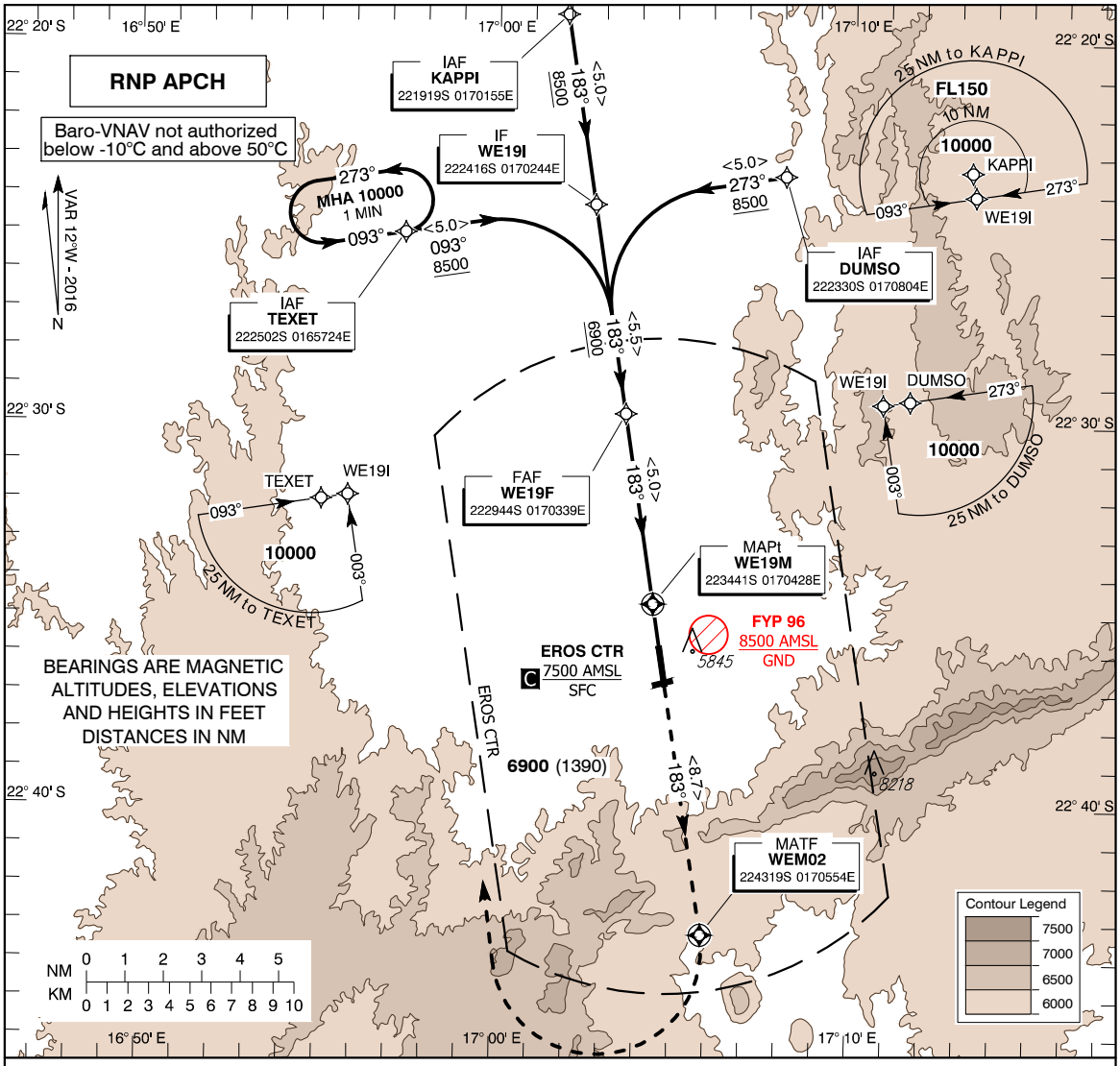
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **5575 FT**
HEIGHT RELATED TO
THR RWY - **19** ELEV - **5510 FT**

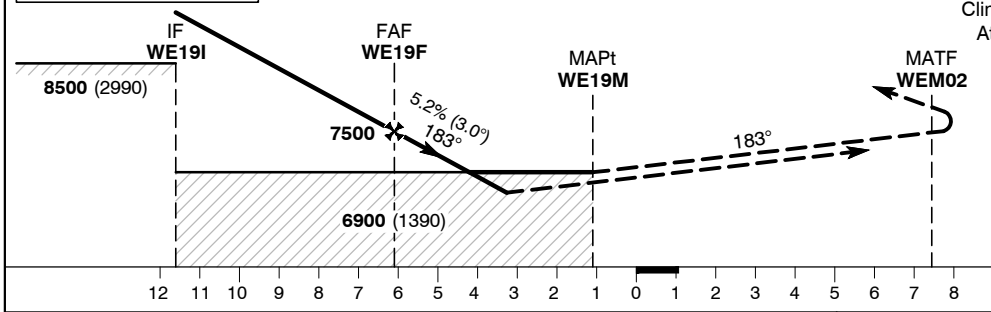
ATIS	126.40
APP	120.50
TWR	118.70
APN	121.70

WINDHOEK - Eros/Intl. (FYWE)

RNP RWY 19



TRANSITION ALT **10000**



MISSED APPROACH:
Climb straight ahead. At fly over waypoint **WEM02** turn right direct to **TEXET** to join the hold (MHA **10000**).

RDH 50

THR ELEV **5510**

Aircraft cat		A	B	C
MDA (OCH) VIS	LNAV/VNAV	**6600** (1090) 4600	**6620** (1110) 5000	**6640** (1130) 5000
	LNAV	**6900** (1390) 5000		

Distance to MAPt	NM	6	5	4	3	2
Altitude	FT	**7470** (1960)	**7150** (1640)	**6830** (1320)	**6510** (1000)	**6200** (690)
Ground Speed	KTS	80	100	120	140	160
Rate of Descent (3°)	FT/MIN	425	531	637	743	849

NOTE:
1. Track shortening inside IAF not permitted.
2. Descent gradient in the initial segments at least 5.6%.

CHANGES: New procedure.

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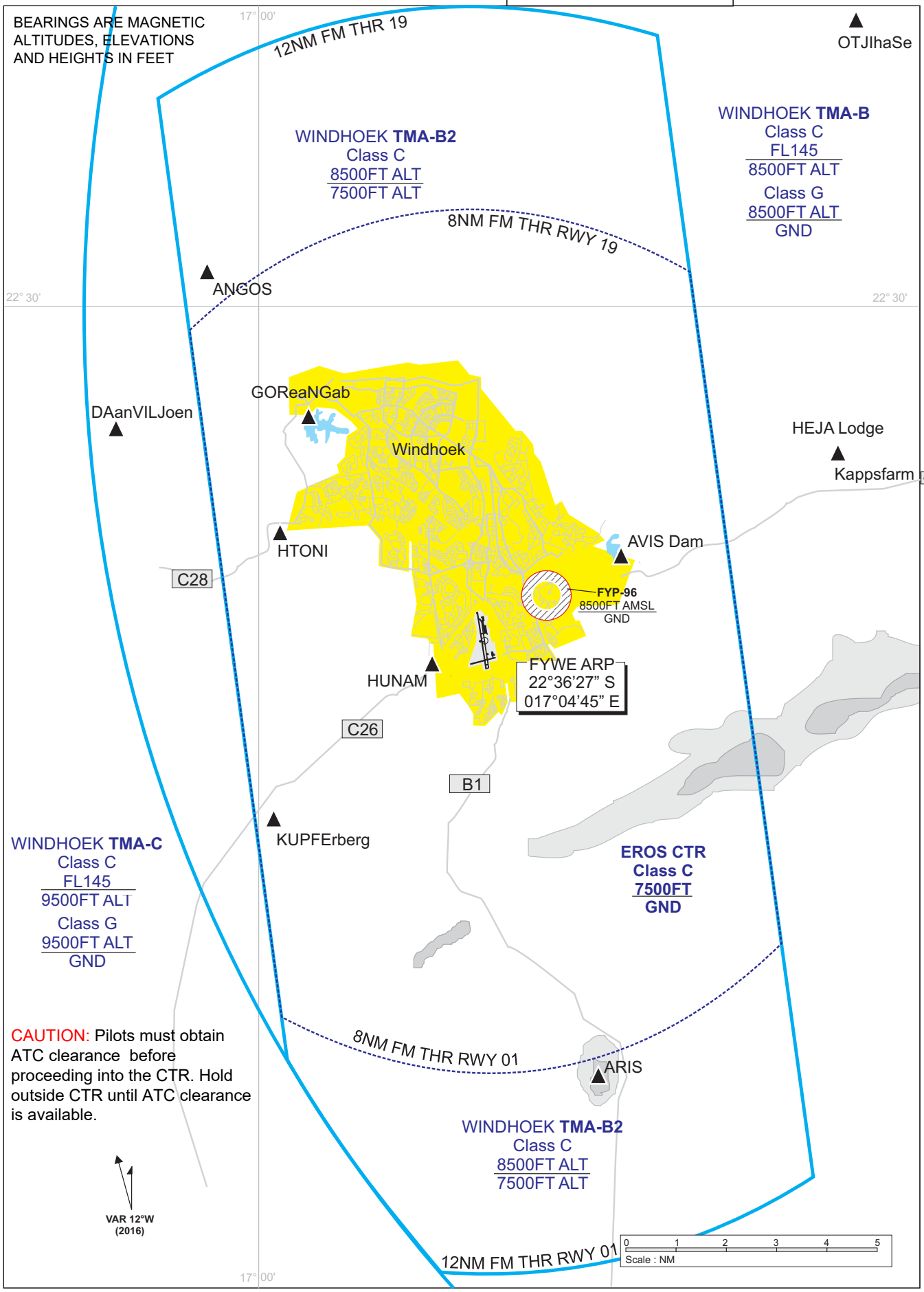
VISUAL
APPROACH
CHART - ICAO

AD ELEV 5574FT
TA 10000FT

TWR 118.7
ATIS 126.4

EROS / FYWE



CHANGES: Editorial, CAUTION note, For additional information see verso

For additional information see verso

VFR Point	Entry Alt	Exit Alt
GORNG	7500FT	at or below 7000FT
HTONI	7500FT	at or below 7000FT
HEJAL	ALT 7500FT	ALT 7000FT
KUPFE	8000FT	at or below 7500FT

COM failure:

1. Squawk 7600
2. Phone TWR 061-702090
3. Enter the CTR via HTONI 8000FT and continue overhead the field. Observe other traffic and transmit blind your intentions.
4. Flash LDG lights and watch TWR for optical signals

RWY	THR ELEV	VASIS
01	5575	4.3°
19	5510	3°
09	5572	NIL
27	5568	NIL

Waypoints:

ANGOS 222721.33S 0165935.90E
GORNG 223142.97S 0170031.00E
HEJAL 223210.82S 0171140.29E
KUPFE 223925.67S 0170003.35E
OTJIS 222531.68S 0171028.99E

VFR Holdings:

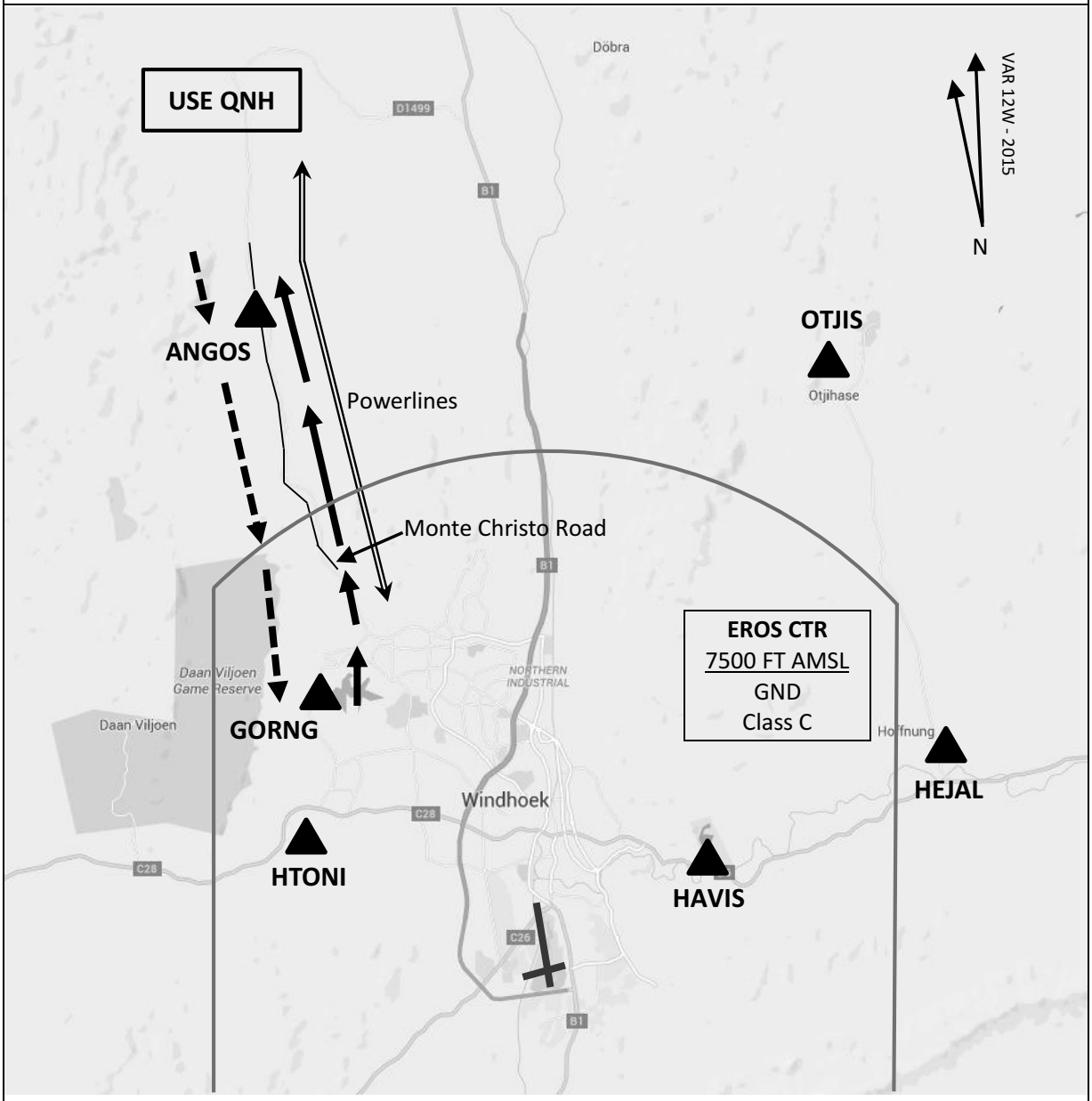
HAVIS 223425S 0170751E
HTONI 223410S 0170000E
HUNAM 223641S 0170325E

Waypoints must be spoken as follows:

ANGOS Abeam Ongos
GORNG Goreangab Dam
HEJAL Heja Lodge
KUPFE Kupferberg
OTJIS Otjihase
HTONI Toni Rust
HUNAM UNAM
HAVIS Avis Dam

NOTE: Model ACFT flying 900M East of PSN HEJAL Up to 150FT AGL. All ACFT must cross HEJAL MIN 7000FT AMSL

VFR ROUTE 1 CHART - ICAO	AD ELEV 5575FT TA 10000 AMSL	EROS TOWER 118.70	EROS (FYWE)



Entry/Exit altitudes:
CTR entry: 7500FT via ANGOS
CTR exit: at or below 7000FT via Goreangab Dam

COM failure:
1. Squawk 7600
2. Phone TWR 061-702090
3. Enter the CTR via HTONI 8000FT and continue overhead the field. Observe other traffic and transmit blind your intentions
4. Flash LDG lights and watch TWR for optical signals

Entry Procedure:
From Abeam ONGOS (ANGOS) track WEST of Monte Christo Road to WEST of Goreangab Dam Wall then as directed by ATC

CAUTION: Pilots must obtain ATC clearance before proceeding beyond ANGOS. Hold at ANGOS until ATC clearance received

Exit Procedure:
From EAST of Goreangab Dam Wall track between Monte Christo Road and the Powerlines

WAYPOINTS:
ANGOS 222721.33S 0165935.90E
HTONI 223409.79S 0170000.64E

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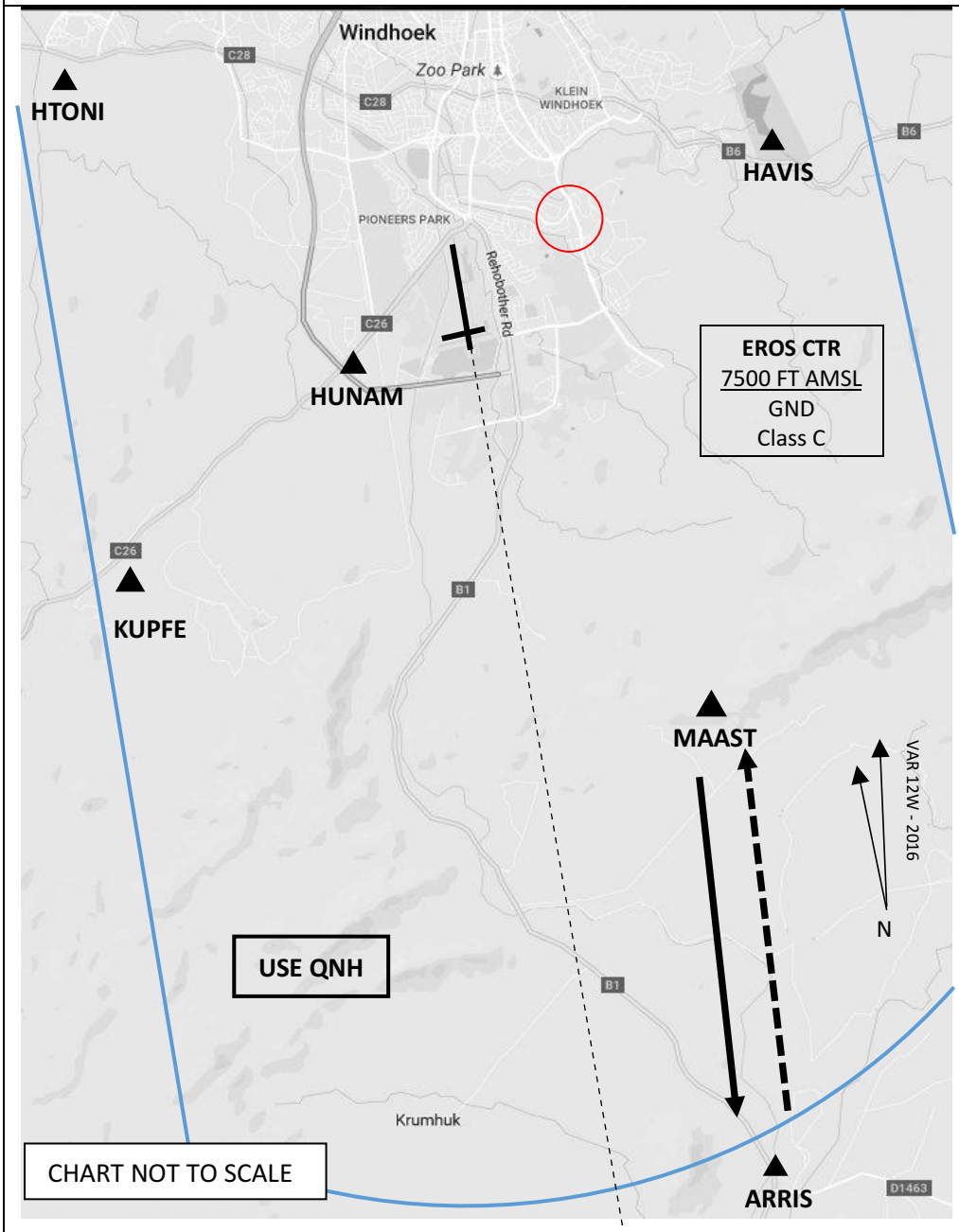
VFR ROUTE 2 CHART - ICAO	AD ELEV 5575FT TA 10000 AMSL	EROS TOWER 118.70	EROS (FYWE)



Entry/Exit altitudes:
CTR entry: 8000FT via ARRIS
CTR exit: at or below 7500FT via MAAST

COM failure:
1. Squawk 7600
2. Phone TWR 061-702090
3. Enter the CTR via VFR Route 2 8000FT. From MAAST continue overhead the field. Observe other traffic and transmit blind your intentions
4. Flash LDG lights and watch TWR for optical signals

Entry Procedure:
Track ARRIS to MAAST and as directed by ATC

CAUTION: Pilots must obtain ATC clearance before proceeding beyond ARRIS. Hold at ARRIS until ATC clearance received

Exit Procedure:
Track MAAST to ARRIS

Note:
Remain at least 1NM to the EAST of extended centerline runway 01/19 at all times

WAYPOINTS:
ARRIS 224504.38S 0170807.70E
MAAST 224027.74S 0170639.92E

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AD 2. AERODROMES

FYWH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYWH - Hosea Kutako International Airport, Windhoek

FYWH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	*ARP co-ordinates and site at AD*	222847.62S 0172815.42E
2.	*Direction and distance from (city)*	24.3NM/45KM East of Windhoek
3.	*Elevation/reference temperature*	5 641 FT/30 ºC
4.	*Geiod undulation at AD ELEV PSN*	101 FT (30 M)
5.	*MAG VAR/annual change*	12º W (2016) / 0.08º decreasing
6.	*AD administration, address, telephone, telefax, telex, AFS*	Namibia Airports Company Limited Hosea Kutako International Airport P.O Box 1 WINDHOEK NAMIBIA Mr. Leonard N. Shipuata: Airport Manager Contact Details Tel: +264 61 295 5600, Fax: +264 61 295 5622, Cell: +264 811441631 (during or after hours) E-mail: shipuatal@airports.com.na or ceo@airports.com ATC Tel: +264 62 702490/1/2/3 Fax: +264 62 702499 DCA Fax: +264 61 702066 AFS: FYWHYDYX
7.	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
8.	*Remarks*	Nil

FYWH AD 2.3 OPERATIONAL HOURS

1.	AD administration	Aerodrome HOD As per NOTAM
2.	Customs and immigration	Same as AD
3.	Health and sanitation	Nil facilities
4.	AIS briefing office	Same as AD
5.	ATS reporting office (ARO)	Same as AD
6.	MET briefing office	Same as AD
7.	ATS	24 HRS ATC Tel: +264 62 702490 Fax: +264 62 702499
8.	Fuelling	Same as AD
9.	Handling	Same as AD administration
10.	Security	24 HRS
11.	De-icing	Nil facilities
12.	*Remarks*	Aircraft wishing to operate outside the H.O.D should apply 48 HRS in advance and a surcharge of N$8536.00per hour thereof will apply

FYWH AD 2.4 HANDLING SERVICES AND FACILITIES

1.	*Cargo-handling facilities*	Fork lift capacity 9 tons, Double Container pallets/ dolleys, Cargo Dolleys, Single container Dolleys, Wooden Panel Baggage cart, High-Low Loader(FMC), Baggage Loading belts, Ground Power units, Golf cart/passengers, Passenger assisted vehicle, Non-motorised steps-Wide body, Motorised steps-Wide body, Toilet services, Douglas & Rofan Tractors, Ex Hyster Forklift. Air Namibia Ground Handling Menzies Aviation (Pty) Ltd
2.	*Fuel/oil types*	AVTUR-100 Ashless, Red Band, ASO W100, W120 Nil AVGAS(only Jet A1)
3.	*Fuelling facilities/capacity*	Hydrant refueling system and Bowser of 18,000L. One truck with capacity of 18,000L with a floor of 900 litres/min
4.	*De-icing facilities*	Nil facilities
5.	*Hangar space for visiting aircraft*	Nil facilities
6.	*Repair facilities for visiting aircraft*	Nil facilities
7.	*Remarks*	AFT HR Fuelling charges N$ 2,000.00 per hour

FYWH AD 2.5 PASSENGER FACILITIES

1.	*Hotels*	In City
2.	*Restaurants*	On AD
3.	*Transportation*	Airport Shuttles, taxi service and Car hire
4.	*Medical facilities*	First aid, ambulance on AP Hospital in city ± 50 KM
5.	*Bank and post office*	Bank open with AD Administration hours, Post office open with AD Hours.
6.	*Tourist office*	Information Counter
7.	*Remarks*	Nil

FYWH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	*AD category for fire fighting*	Category 9
2.	*Rescue equipment*	3 x Fire Tenders 700 000L water reservoir 14750L AFFF (Foam- Trisol "S" 6%) 900KG Dry Chemical Powder Hydrants (15)
3.	*Capability for removal of disabled aircraft*	Airlines Responsibility
4.	*Remarks*	Fire Protection HOD: H24 No ACFT is to take-off or land outside these hours, except in emergency Trained personnel for fire protection: 15 per shift All fire Tenders are fully equipped

FYWH AD 2.7 SEASONAL AVAILABILITY - CLEARING

Available throughout the year and no need for clearing.

FYWH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	*Apron surface and strength*	Surface: Parking stands 1 – 6, Concrete Parking stands 7 – 10; Interlocks surface PCN 40/F/A/W/T
2.	*Taxiway width, surface and strength*	Width: 22 M Surface: ASPH Strength: PCN 49/F/C/W/T TWY B: PCN 38/F/A/W/T TWY C: PCN 86/F/A/W/T
3.	*ACL location and elevation*	Location: Centre of apron Elevation: 5610 FT Location: THR RWY 08 Elevation: 5641 FT Location: THR RWY 16 Elevation: 5574 FT Location: THR RWY 26 Elevation: 5501 FT Location: THR RWY 34 Elevation: 5565 FT
4.	*VOR/INS checkpoints*	Not applicable
5.	*Remarks*	No aircraft mooring points available at FYWH. ACFT mooring weights AVBL. 3X35Kg pairs, 3X50Kg pairs, 3X70Kg pairs. The key for the mobile trolley is available at the AP permit office, contact number +264 61 2955683.

FYWH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	*Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands*	Aircraft TWY Guidelines and Parking Bays / Stands are Available.
2.	*RWY and TWY markings and LGT*	RWY: Designation, THR, TDZ, side-stripe markings, Centre line. TWY: Centre line, holding positions at intersections marked, blue edge lights.
3.	*Stop bars*	Nil facilities
4.	*Remarks*	305 M marker on RWY 34 only. CHEVRON markers on RWY and TWY shoulders. Lighted windsock. Nil taxiing guidance system.

FYWH AD 2.10 AERODROME OBSTACLES

Area 2					
OBST ID/ Designation	*OBST Type*	*OBST position*	*ELEV/HGT(M)*	*Markings / Type, Colour*	*Remarks*
a	*b*	*c*	*d*	*e*	*f*
Receiver Mast (East)	Receiver Mast (East)	222910.38555S 172850.90257E	1732.601	NIL INFO AVBL	Top of receiver mast (mast = 33,0m AGL).
Receiver Mast (West)	Receiver Mast (West)	222910.40685S 172849.00588E	1732.868	NIL INFO AVBL	Top of receiver mast (mast = 33,0m AGL).
Receiver Mast (North)	Receiver Mast (North)	222908.64236S 172850.88243E	1731.324	NIL INFO AVBL	Top of receiver mast (mast = 33,0m AGL).
Transformer	Transformer	222839.20187S 172847.02414E	1691.692	NIL INFO AVBL	Top of roof of transformer building (=3.50m AGL).
Jet Fuel Tank	Jet Fuel Tank	222918.62115S 172742.27386E	1727.590	NIL INFO AVBL	Top centre of A1 Jet Fuel Bulk storage tank.
Single Steel Pole1	Single Steel Pole1	222950.55889S 172917.99671E	1719.992	NIL INFO AVBL	Top of EPTL single steel pole structure (22,9m AGL).
Single Steel Pole 2	Single Steel Pole 2	222954.55315S 172907.962E	1734.319	NIL INFO AVBL	Top of EPTL single steel pole structure (22,9m AGL).
Single Steel Pole 3	Single Steel Pole 3	222951.78845S 172904.0088E	1732.735	NIL INFO AVBL	Top of EPTL single steel pole structure (23,5m AGL).
Single Steel Pole 4	Single Steel Pole 4	222947.38443S 172857.74474E	1724.070	NIL INFO AVBL	Top of EPTL single steel pole structure (22,0m AGL).
Single steel pole 5	Single steel pole 5	222951.62919S 172847.16294E	1725.333	NIL INFO AVBL	Top of EPTL single steel pole structure (23,0m AGL).
Control Tower	Control Tower	222910.62228S 172751.20227E	1744.968	NIL INFO AVBL	Top of mast on control tower roof (Mast is 17,5m above roof).
Apron Lights (East)	Apron Lights (East)	222907.6641S 172756.63101E	1729.145	NIL INFO AVBL	Top of light array of apron light (21,1m AGL)
Apron Lights (West)	Apron Lights (West)	222915.86057S 172738.84865E	1732.062	NIL INFO AVBL	Top of light array of apron light (22,1m AGL)
Water Tank	Water Tank	222929.22992S 172619.71438E	1743.595	NIL INFO AVBL	Top of water tank.

Area 2					
OBST ID/ Designation	*OBST Type*	*OBST position*	*ELEV/HGT(M)*	*Markings / Type, Colour*	*Remarks*
a	*b*	*c*	*d*	*e*	*f*
VOR WHV	VOR WHV	222838.51746S 172814.07165E	1710.896	NIL INFO AVBL	Top of red lights on DME antenna (Top of red lights on DME antenna above foundation = 9,1m)
MTC Tower	MTC Tower	222931.446S 172728.9122E	1761.600	NIL INFO AVBL	Top of MTC tower (Top of tower is 42.0m AGL).
NDB (West)	NDB (West)	222904.04848S 172811.3193E	1728.633	NIL INFO AVBL	Top of NDB tower (Tower is 31.1m AGL).
NDB (East)	NDB (East)	222902.75856S 172814.12101E	1727.282	NIL INFO AVBL	Top of NDB tower (Tower is 31.1m AGL).
Glide Path 26	Glide Path 26	222817.78223S 172910.74138E	1688.473	NIL INFO AVBL	Top of GP tower and centre of antenna phase (Tower=11.0m AGL).
Approach Rotating Beacon	Approach Rotating Beacon	222940.70276S 172712.01966E	1743.498	NIL INFO AVBL	Top centre of airport rotating beacon on water tower.
Automatic Weather Station (East)	Automatic Weather Station (East)	222847.27201S 172808.31729E	1724.045	NIL INFO AVBL	Top of lightening conductor on Automatic Weather Station mast (11.25m AGL).
Automatic Weather Station (West)	Automatic Weather Station (West)	222917.35115S 172703.00393E	1739.486	NIL INFO AVBL	Top of lightening conductor on Automatic Weather Station mast (11.3m AGL).
Met station THR26	Met station THR26	222819.33254S 172908.88088E	1690.64	NIL INFO AVBL	Met Station next to THR26. Measured to top of lightning conductor 12.2m AGL
Radar Left hand side (LHS) of Threshold08	Radar Left hand side (LHS) of Threshold08	222937.98565S 172726.13010E	1774.342	NIL INFO AVBL	Radar situated LHS of Threshold08. Measured to top centre of Radar. Height to top of lightning conductor between red lights 51.35m AGL
Water Tank LHS of Threshold08 and Radar	Water Tank LHS of Threshold08 and Radar	222950.87169S 172735.58534E	1750.6	NIL INFO AVBL	Situated LHS of Threshold08 and Radar. Measured to top centre of tank 25.6m AGL

Area 2					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT(M)	Markings / Type, Colour	Remarks
a	b	c	d	e	f
Windmill Opposite Tower	Windmill Opposite Tower	222845.72720S 172735.62509E	1721.271	NIL INFO AVBL	Windmill situated 885m from Control Tower. Measured to top of windmill 19.7m AGL
High Ground	High Ground	223304.20095S 172718.42739E	1712.593	NIL INFO AVBL	High Ground on South Eastern Side of Approach 08
Power lines	Power lines	222947.2992S 172859.8440E	1719.50	NIL INFO AVBL	Take off climb 16M, Approach 34M
Power lines	Power lines	222949.6068S 172902.3496E	1719.50	NIL INFO AVBL	Take off climb 16M, Approach 34M
Power lines	Power lines	222951.8388S 172904.1496E	1719.50	NIL INFO AVBL	Take off climb 16M, Approach 34M
Power lines	Power lines	222954.6000S 172907.8756E	1719.50	NIL INFO AVBL	Take off climb 16M
Power lines	Power lines	222931.2720S 172853.2344E	1703.50	NIL INFO AVBL	Take off climb 16M

Area 3					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT	Markings / Type, Colour	Remarks
a	b	c	d	e	f
Nil					

FYWH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	*Associated Met office*	Windhoek
2.	*Hours of service* *MET office outside hours*	H24 Assistant MET technician: 0400-1800 Contact details: +264 62 540059 and +264 62 540327
3.	*Office responsible for TAF preparation* *Periods of validity*	Windhoek 9, 18 HR
4.	*Type of landing forecast* *Interval of issuance*	TREND
5.	*Briefing/consultation provided*	P, T
6.	*Flight documentation* *Language(s) used*	PL, TB English
7.	*Charts and other information available for briefing or consultation*	S3, U85, U7, U5, U3, U2, P5
8.	*Supplementary equipment available for providing information*	Nil
9.	*ATS units provided with information*	Windhoek FIC, Cape Town RCC, Johannesburg RCC
10.	*Additional information (limitation of service, etc.)*	Nil

Mean daily maximum and minimum temperatures (°C) for each month of the year												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Max	31,3	28,7	27,6	26,1	23,1	20,4	21,2	24,1	26,9	29,6	29,6	30,2
Min	17,7	16,3	14,4	9,8	5,7	2,8	2,4	5,2	8,5	12,3	15,3	16,4
Mean pressure for each month of the year at approximately the times of MAX and MIN temperatures in hPa												
Max	827,7	829,0	829,7	830,0	831,1	832,3	833,2	832,1	831,0	829,3	829,3	828,3
Min	828,9	829,6	831,0	831,4	832,4	833,6	834,8	833,8	832,8	830,9	830,3	829,4

FYWH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY	*TRUE BRG*	*Dimensions of RWY (M)*	*Strength (LCN) and surface of RWY and SWY*	*THR coordinates* *RWY end coordinates* *THR geoid undulation*	*THR Elevation and Highest Elevation of TDZ of Precision APP RWY*
1	2	3	4	5	6
08	063.37º	4569.193 x 45	PCN73/F/A/W/T/ASPH	222923.02S 0172658.54E 222923.11S 0172658.35E GUND 101.6 FT	THR 5641 FT TDZ 5630 FT
26	243.37º	4569.193 x 45	PCN 73/F/A/W/T/ASPH	222817.21S 0172921.40E 222817.12S 0172921.59E GUND 101.2 FT	THR 5501 FT TDZ 5508 FT
16	141.09º	1525 x 30	ASPH	222839.80S 0172808.71E 222839.64S 0172808.57E GUND 101.4 FT	THR 5574 FT
34	321.09º	1525 x 30	ASPH	222918.07S 0172841.86E 222918.22S 0172841.99E GUND 101.4 FT	THR 5565 FT

Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	8	9	10	11	12
0.941 %	Nil	120.551 M	4687.974x 344.72	Nil info	1. AD restriction to code E aircraft with outer main gear span of 13metres or less
0.941 %	Nil	120.551 M	4687.974x 344.72	Nil info	2. A code B, C and D aircraft is not allowed to simultaneously use RWY 08/26 and the main TWY parallel to RWY 08/26 with a code E aircraft.
0.199 %	11.477	161.434 M	1643.64 x 110	Nil info	Nil
0.199 %	11.477	161.434 M	1643.64 x 110	Nil info	Nil

FYWH AD 2.13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA(M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
08	4569.193	4689.744	4569.193	4569.193	RESA: 240X180
26	4569.193	4689.744	4569.193	4569.193	RESA: 240X180
16	1523.640	1685.074	1535.117	1523.117	RESA: 120X120
34	1523.640	1685.074	1535.117	1525.117	RESA: 120X120

FYWH AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	*APCH LGT type LEN INTST*	*THR LGT colour WBAR*	*VASIS (MEHT) PAPI*	*TDZ, LGT, LEN*	*RWY Centre line LGT length, spacing, colour, INTST*
1	2	3	4	5	6
08	SALS, 420 M, LIH	Green	PAPI 3°	Nil info	Nil info
26	PALS, 900 M, LIH	Green	PAPI 3°	Nil info	Nil info
34	LIH	Green	PAPI 3°	Nil info	Nil info
16	LIH	Green	Nil info	Nil info	Nil info

RWY edge LGT LEN spacing colour INTST	*RWY End LGT colour WBAR*	*SWY LGT LEN (M) colour*	*Remarks*
7	8	9	10
4569.193 M/60 M, White/LIH	Red	Nil info	Last 600 M of RWY is amber
4569.193 M/60 M, White/LIH	Red	Nil info	Nil
1525 M/50 M, White/LIH	Red	Nil info	Nil
1525 M/50 M, White/LIH	Red	Nil info	Nil

FYWH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	*ABN/IBN location, characteristics and hours of operation*	ABN FLG G/W 700 M South of THR RWY 08
2.	*Anemometer location and LGT*	WDI - LGT Anemometer: 75 M W of THR RWY 34
3.	*TWY edge and centre line lighting*	Edge: All TWY - blue Centre line: Nil info
4.	*Secondary power supply/switch-over time*	Available Switch-over time ±7 seconds
5.	*Remarks*	The secondary power supply at Hosea Kutako International Airport is met by the following: Three standby generators, 2 x 500kva and 1 x 1000kva Caterpillar diesel generators situated at the power plant. This three generators supply the entire airport including all navigational equipment. The total capacity of the secondary power is 2MVA The generators are supplied with diesel fuel that is stored in an underground fuel tank with a capacity of 13000L. Each generator is having a day tank with a capacity of 100L that is supplied from the outside tank with 1000L capacity In case of power failure the system triggers the three generators to start automatically and simultaneously. The load is transferred to the secondary power in less than 15 seconds The following aerodrome facilities are provided with secondary supply capable of supplying power when there is a failure of the primary power supply: Runway, taxiway and approach lighting, PAPI lighting, ATC control tower, radar, meteorological equipment, fire station, apron floodlighting, VOR, NDB, glideslope, VDF, localizer, transmitter station, receiver station, east substation

FYWH AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYWH AD 2.17 ATS AIRSPACE

1.	*Designation and lateral limits*	Windhoek CTR: Lateral Limits: 222105.80S 0172531.48E – clockwise along the arc of a circle, radius 8NM centred at 222817.21S 0172921.40E – 223119.04S 0173721.14E – 223707.98S 0172443.90E – clockwise along the arc of a circle, radius 8NM centred at 222923.02S 0172658.54E – 222211.54S 0172308.70E to point of origin
2.	*Vertical limits*	SFC to 7500FT AMSL
3.	*Airspace classification*	C
4.	*ATS unit call sign* *Language(s)*	Windhoek Tower English
5.	*Transition altitude*	10 000 FT MSL
6.	*Remarks*	1. Speed restrictions apply within Windhoek TMA. Refer FYWH AD 2.22 Flight Procedures 2. Use FYWH QNH within lateral confines of Windhoek TMA at and below 10 000 FT AMSL. Refer ENR 2.1-3 Note 2 3. All traffic operating in Class G airspace beneath FYWH TMA, excluding FYD130, must monitor and/or contact Windhoek Approach FREQ 120.5 MHz.

FYWH AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	2	3	4	5
APP	Windhoek Approach	120.5 MHz	H24	
APN		125.9MHz		Apron control introduced on FREQ 125.9 MHz. All non- scheduled, private and training flights shall establish contact with the apron office. Contact shall be made prior to landing/departure, if traffic allows, alternatively when released by ATC after vacating the RWY/TWY.
TWR	Windhoek Tower	118.1 MHz	H24	
ATIS	Windhoek ATIS	126.2MHz	HS	Daily 0600 – 1900 Operational 50NM radius around the airport on FREQ 126.2MHz or TEL 0813323509

FYWH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	*ID*	*Frequency*	*Hours of Operation*	*Position of transmitting antenna co-ordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	2	3	4	5	6	7
VOR/DME (12°W/2019)	WHV	114.5 MHz CH92X	H24	222838.52S 0172814.07E	5613 FT	Nil
UHF DME	WHV	Tx 1179 MHz Rx 1116 MHz	H24	222838.52S 0172814.07E	5613.1 FT	Channel 92 X co-axially co-located with VOR
LOC 26 (12°W/2019) ILS CAT I (12°W or 256°)	WD	110.3 MHz	H24	222927.30S 0172649.26E	5650 FT	Nil
GP 26		335.0 MHz	H24	222817.78S 0172910.74E	5540 FT	3º, RDH 49 FT
RNP APCH	N/A	1575.42MHz	H24	N/A	N/A	Transmitting antennas are satellite based.

FYWH AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

1.1 Circuit Altitude:

a) Turbine-powered aircraft 7 000 FT ALT

b) Reciprocating engine powered aircraft 6500 FT ALT.

1.2 All pilots operating at Hosea Kutako must wear a green reflective jacket depicting their airlines concerned on the rear of the jacket for safety reasons as well as easy identification.

2. Taxiing to and from stands

2.1 Landing

- From RWY26: follow taxiway Echo and/or Charlie or Bravo exit to apron
- From RWY08: follow taxiway Charlie and/or Delta or Echo exit to apron
- From RWY16: follow taxiway Delta exit to apron
- From RWY34: follow taxiway Delta exit to apron

2.2 Departure (from any parking stand on the apron)

- From Apron to holding point Alpha RWY 08: follow taxiway Charlie to taxiway Bravo leading to holding point Bravo enter runway 08/26 to the turning circle Alpha RWY08.
- From Apron to holding point Bravo RWY08: follow taxiway Charlie to taxiway Bravo

leading to holding point Bravo

- From Apron to holding point Charlie RWY 08: follow taxiway Charlie to intersection Charlie
- From Apron to holding point Charlie RWY 26: follow taxiway Charlie to intersection Charlie
- From Apron to holding point Delta RWY 26: follow taxiway Charlie to taxiway Delta leading to intersection Delta
- From Apron to holding point Echo RWY 26: follow taxiway Charlie to taxiway Delta to intersection Delta, cross runway 16/34 to taxiway Echo leading to the holding point Echo
- From Apron to holding point Foxtrot RWY 26: follow taxiway Charlie to taxiway Delta to intersection Delta, cross runway 16/34 to taxiway Echo leading to the holding point Echo enter RWY08/26 to turning circle Foxtrot RWY26

3. Parking area for small aircraft (general aviation)

Pilots are strictly requested to adhere to the marshalling signals from the Marshaller e.g. parking position etc. and make use of wheel chokes when parked.

4. Parking area for helicopters

Nil limitations.

5. Apron - Taxiing during winter conditions

Nil limitations.

6. Taxiing - Limitations

Nil limitations.

7 School and training flights - Technical test flights - Use of runways

Instrument and Circuit training slot time required, including night flying. Phone Eros Briefing office on +264 61 702083 or obtain in person at the Briefing Office. Maximum 3 days in advance. Pilots must advise ATC prior to taxi of Slot Time Reference Number (STRN) allocated at time of booking.

8 Helicopter traffic - Limitation

Nil limitations.

9 Removal of disabled aircraft from runways

SAA Technical. Memorandum of understanding signed on 21 July 2015.

10 Simultaneous Movement of Aircraft

10.1 Allowable Simultaneous Movements

- Code C or higher is allowed to take off or land provided the parallel taxiway is NOT occupied by any aircraft.
- The simultaneous use of the runway for a code A and B aircraft landing or taking off while a code D aircraft and lower is taxing is acceptable.

10.2 Mixed Aircraft Operations (Departure holding points)

- Any aircraft type is permitted to hold in the loop for departure at a distance of at least 90m

from the runway centerline while another aircraft is landing on the same runway, in Visual Metrological Conditions (VMC) only

10.3 Mixed Aircraft Operations (Taxi for departure)

- This aircraft operation allow aircraft to taxi at the same time for an intersection or full length departure using runway 08/26, provided that the aircraft taking the intersection ahead takes-off first.

10.4 Mixed Aircraft Operations (Landing-Roll complete)

- Any aircraft will be permitted to taxi from the apron once the landing aircraft (Code C, D and E) announces that landing roll is complete. All pilots in code C, D and E aircraft must announce to ATC once landing roll is complete.

10.5 Aircraft operational restrictions

- When a Code C aircraft or higher is landing or taking off no taxing of aircraft on the parallel taxiway is permitted.

FYWH AD 2.21 NOISE ABATEMENT PROCEDURES

Nil procedures.

FYWH AD 2.22 FLIGHT PROCEDURES

Communication Failure Procedure

General:

Aircraft should adhere to the procedures stipulated in ENR 1.5 Section 6 (ICAO Doc 4444 Chapter 15, 5.3). In addition, the relevant procedures below shall be applied by inbound aircraft.
If able contact ATC on telephone +26461702290

For IFR Traffic

1. Squawk 7600
2. Approach clearance received and acknowledged:
   Continue approach according to clearance.
3. No approach clearance received and acknowledged:
   - Maintain last assigned level received and acknowledged, but not below MSA.
   - Proceed via WHV VOR then via R050 WHV to intercept the 14DME arc to join the hold at FRITZ;
   - In FRITZ hold descent to 8000FT MSL.
   - Carry out instrument approach to the most suitable runway, or if EAT is received and acknowledged, leave FRITZ on EAT.

4. If issued with a STAR, refer to Communication Failure Procedure for the STAR being flown. Comply with all lateral, vertical and speed requirements of the STAR. Holding is not required when issued with a STAR, unless an EAT has been received and acknowledged including delays/holding for traffic management purposes.

For VFR traffic

a) Squawk Code 7600
b) Join overhead the aerodrome at 2000ft AGL
c) Observe and join the Aerodrome traffic circuit
d) Make all turns to the left whenever possible
e) Land as soon as possible and report to the ATC

Speed Restriction

Speed restrictions within Windhoek TMA for arriving and departing aircraft, MAX IAS 250KT restriction applies at and below FL150. Speed is mandatory and must be complied with. ATC may vary the speeds for traffic management purposes.

FYWH AD 2.23 ADDITIONAL INFORMATION

1. Concentration of birds around the runway and in the vicinity of the aerodrome, pilots and airport users to exercise caution.

FYWH AD 2.24 CHARTS RELATED TO HOSEA KUTAKO AERODROME

	Page
Aerodrome Chart – ICAO	AD 2-19
Area Chart – ICAO (Reserved)	AD 2-21
Standard Departure Chart – Instrument – ICAO EGMAS 1A, UTULO 1A RWY 08	AD 2-23
Narrative EGMAS 1A and UTULO 1A RWY 08	AD 2-24
Standard Departure Chart – Instrument – ICAO EGMAS 1B, UTULO 1B RWY 26	AD 2-25
Narrative EGMAS 1B, UTULO 1B RWY 26	AD 2-26
Standard Arrival Chart – Instrument – ICAO ATUPI 1A, AXODO 1A RWY 08	AD 2-27
Narrative ATUPI 1A, AXODO 1A RWY 08	AD 2-28
Standard Arrival Chart – Instrument – ICAO ATUPI 1B, AXODO 1B RWY 26	AD 2-29
Narrative ATUPI 1B, AXODO 1B RWY 26	AD 2-30
ATC Surveillance Minimum Altitude Chart – ICAO	AD 2-31
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Instrument Approach Chart – ICAO ILS or LOC RWY 26	AD 2-33
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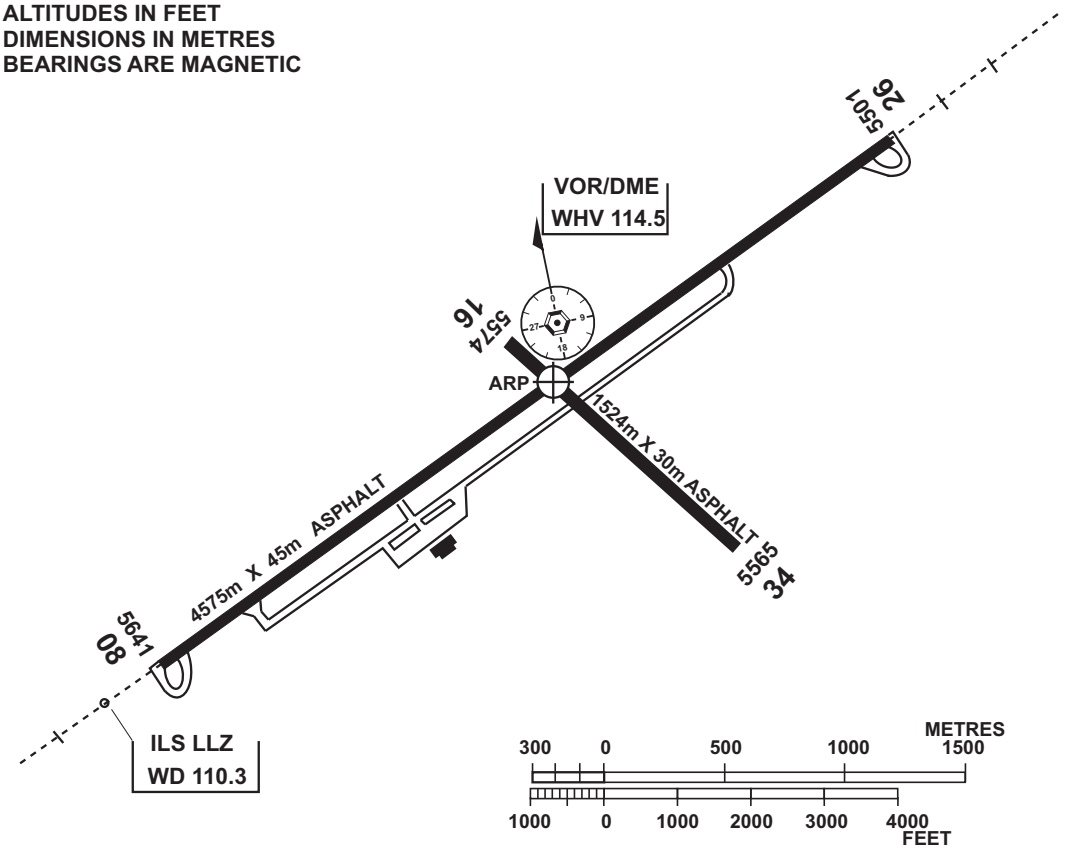
Instrument Approach Chart – ICAO RNP RWY 26	AD 2-39
Visual Approach Chart – FYWH	AD 2-41
Visual Approach Chart – FYWE and FYWH	AD 2-43

Elev	Var	A/D	
5641	12°W	REV PT	S22°28'48" E017°28'15"

HOSEA KUTAKO INTL
AERODROME

HOSEA KUTAKO Tower 118.1	WH - 1 Eff 30 JAN 20

ALTITUDES IN FEET
DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC



R/W	VASIS	APPROACH	THR	RUNWAY	L.DIST	SLOPE
08 (078°T)	P3°	SALS	Gr	LIH	Full	Nil
26 (258°T)		PALS			Full	Nil
16 (141°T)	Nil	Nil	Gr	LIH	Full	Nil
34 (321°T)					Full	Nil

OTHER LIGHTING: Taxiway

TAXIWAY WIDTHS
22m asphalt.

1. Bird concentrations in the vicinity of the aerodrome.
2. 30 min prior notice is required for instrument training flights, circuit training and night flights.

Rev : Elevations and TWY Width.

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Area Chart – ICAO (Reserved)

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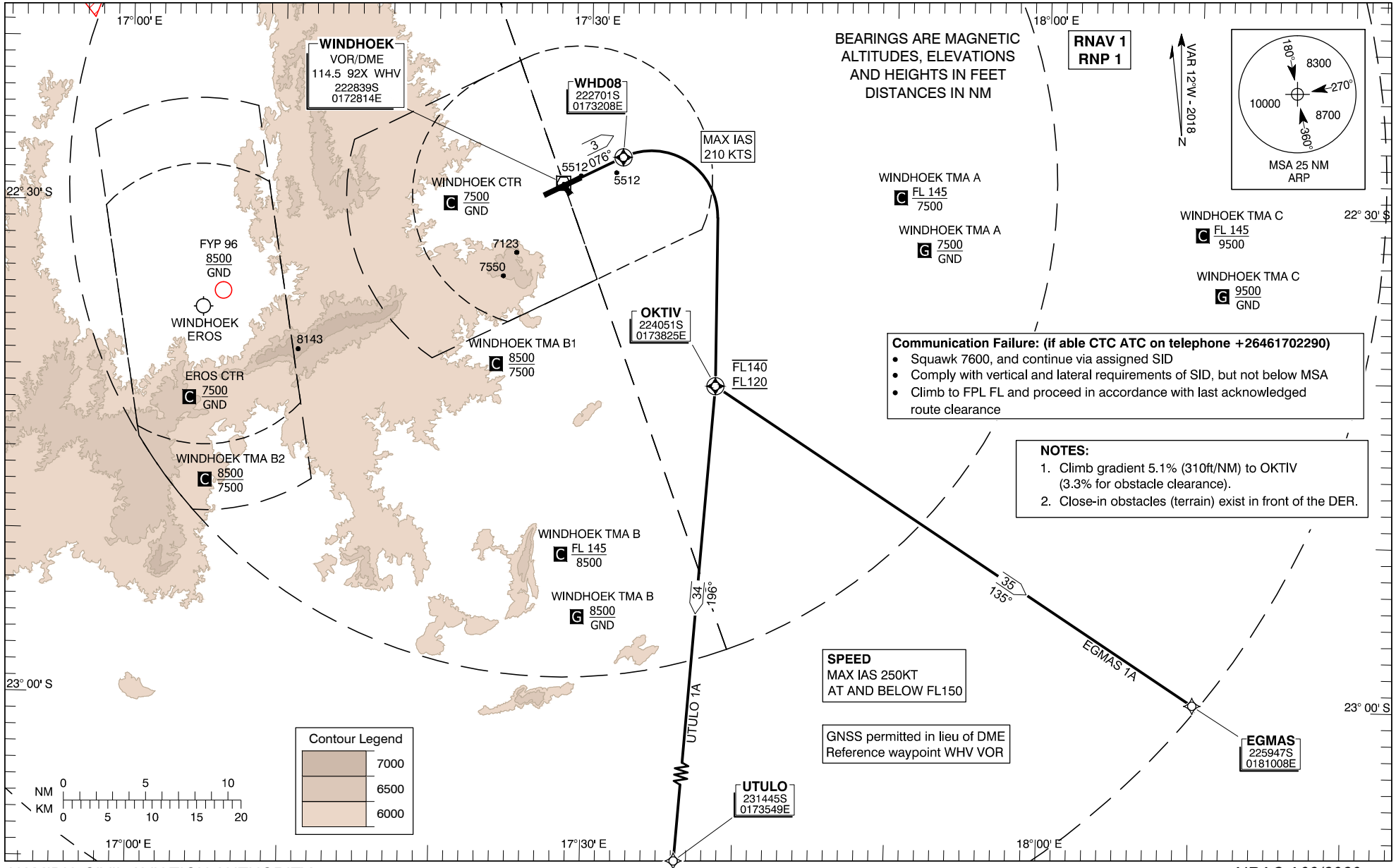
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK - Hosea Kutako/Intl. (FYWH)
RWY 08
JET ONLY

EGMAS 1A, UTULO 1A



CHANGES: ADD JET ONLY

EGMAS 1A DEPARTURE RWY 08

- Track 076° to WHD08
- After passing WHD08 turn RIGHT track DCT to OKTIV [MAX IAS 210KT in turn]
- CROSS OKTIV BTN FL120 and FL140
- After passing OKTIV turn LEFT track 135° to EGMAS thence as cleared

UTULO 1A DEPARTURE RWY 08

- Track 076° to WHD08
- After passing WHD08 turn RIGHT track DCT to OKTIV [MAX IAS 210KT in turn]
- CROSS OKTIV BTN FL120 and FL140
- After passing OKTIV track 196° to UTULO thence as cleared

SUGGESTED DATABASE CODING

EGMAS 1A

Navigational performance	P/T	**WPT Name**	**Latitude / Longitude**	**Fly-By or Fly-Over**	**True track (°) / Magnetic track (°)**	**Distance (nm)**	**Upper limit (FL/ft) / Lower limit (FL/ ft)**	**Speed (kts)**	Remarks
RNAV 1	CF	WHD08	222700.50S / 0173207.78E	Fly-Over	063.6 / 076	-	-	210	R078 D4.0 WHV
RNAV 1	DF	OKTIV	224050.95S / 0173825.15E	Fly-Over	-	-	FL140 / FL120	250	R
RNAV 1	TF	EGMAS	225947.23S / 0181007.55E	Fly-By	122.9 / 135	34.8	-	-	-

UTULO 1A

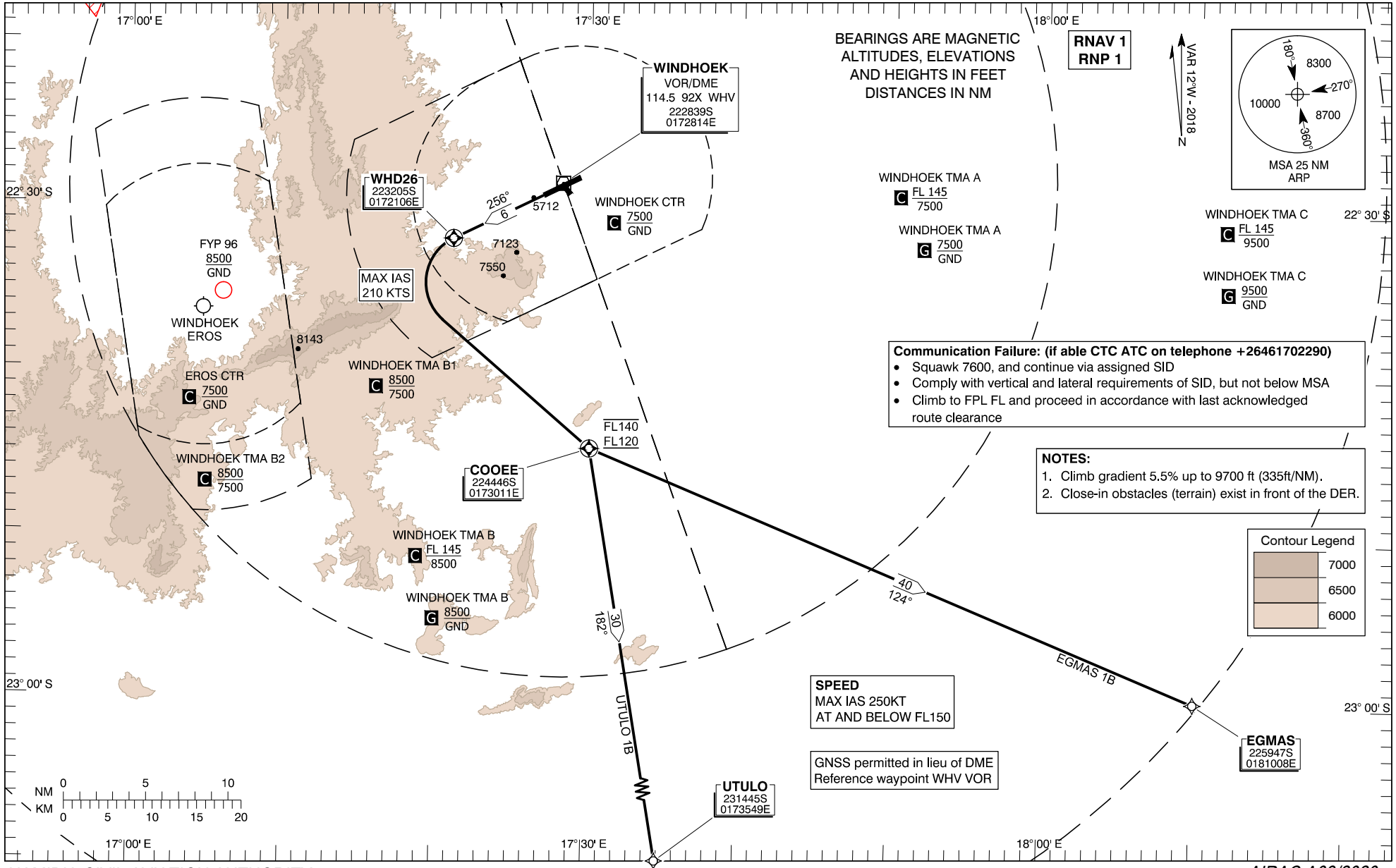
Navigational performance	P/T	WPT Name	**Latitude / Longitude**	**Fly-By or Fly-Over**	**True track (°) / Magnetic track (°)**	**Distance (nm)**	**Upper limit (FL/ft) / Lower limit (FL/ ft)**	**Speed (kts)**	**Remarks**
RNAV 1	CF	WHD08	222700.50S / 0173207.78E	Fly-Over	063.6 / 076	-	-	210	R078 D4.0 WHV
RNAV 1	DF	OKTIV	224050.95S / 0173825.15E	Fly-Over	-	-	FL140 / FL120	250	R
RNAV 1	TF	UTULO	231445.05S / 0173549.05E	Fly-By	184.1 / 196	33.9	-	-	-

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK - Hosea Kutako/Intl. (FYWH)
RWY 26
JET ONLY
EGMAS 1B, UTULO 1B



CHANGES: ADD JET ONLY

EGMAS 1B DEPARTURE RWY 26

- Track 256° to WHD26
- After passing WHD26 turn LEFT track DCT to COOEE [MAX IAS 210KT in turn]
- CROSS COOEE BTN FL120 and FL140
- After passing COOEE track 124° to EGMAS thence as cleared

UTULO 1B DEPARTURE RWY 26

- Track 256° to WHD26
- After passing WHD26 turn LEFT track DCT to COOEE [MAX IAS 210KT in turn]
- CROSS COOEE BTN FL120 and FL140
- After passing COOEE turn RIGHT track 182° to UTULO thence as cleared

SUGGESTED DATABASE CODING

EGMAS 1B

Navigational performance	P/T	**WPT Name**	**Latitude / Longitude**	**Fly-By or Fly-Over**	**True track (°) / Magnetic track (°)**	**Distance (nm)**	**Upper limit (FL/ft) / Lower limit (FL/ ft)**	**Speed (kts)**	Remarks
RNAV 1	CF	WHD26	223205.08S / 0172106.26E	Fly-Over	243.6 / 256	6.0	-	210	R255 / D7.4 WHV
RNAV 1	DF	COOEE	224446.40S / 0173010.99E	Fly-Over	-	-	FL140 / FL120	250	L
RNAV 1	TF	EGMAS	225947.23S / 0181007.55E	Fly-By	112.2 / 124	39.8	-	-	-

UTULO 1B

Navigational performance	P/T	WPT Name	**Latitude / Longitude**	**Fly-By or Fly-Over**	**True track (°) / Magnetic track (°)**	**Distance (nm)**	**Upper limit (FL/ft) / Lower limit (FL/ ft)**	**Speed (kts)**	**Remarks**
RNAV 1	CF	WHD26	223205.08S / 0172106.26E	Fly-Over	243.6 / 256	6.0	-	210	R255 / D7.4 WHV
RNAV 1	DF	COOEE	224446.40S / 0173010.99E	Fly-Over	-	-	FL140 / FL120	250	L
RNAV 1	TF	UTULO	231445.05S / 0173549.05E	Fly-By	170.1 / 182	30.3	-	-	-

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

TRANSITION ALTITUDE
10000 FT

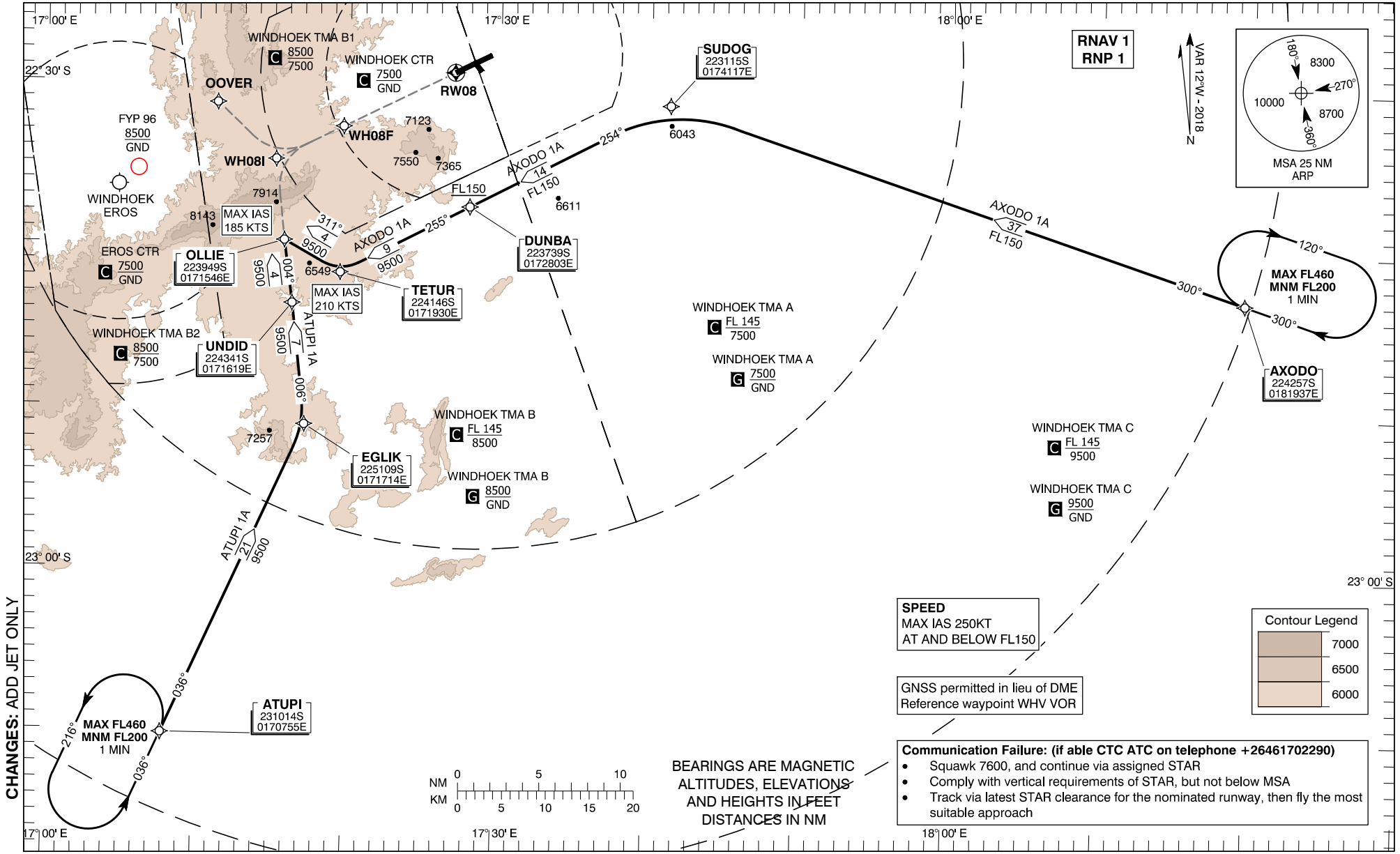
ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK - Hosea Kutako/Intl. (FYWH)

JET ONLY

RWY 08

ATUPI 1A, AXODO 1A



CHANGES: ADD JET ONLY

ATUPI 1A RWY 08

- From ATUPI track 035° to EGLIK
- From EGLIK track 006° to UNDID. MAX IAS 210KT from UNDID
  From UNDID track 004° to OLLIE for RNP or VSA RWY 08 approach. MAX IAS 185KT from OLLIE

AXODO 1A RWY 08

- From AXODO track 300° to SUDOG
- From SUDOG track 254° to DUNBA. CROSS DUNBA AT OR ABV FL150
- From DUNBA track 255° to TETUR. MAX IAS 210KT from TETUR
- From TETUR track 299° to OLLIE for RNP or VSA RWY 08 approach. MAX IAS 185KT from OLLIE

SUGGESTED DATABASE CODING

ATUPI 1A

Navigational performance	P/T	WPT Name	Latitude / Longitude	Fly-By or Fly- Over	True track (°) / Magnetic track (°)	Distance (nm)	Upper limit (FL/ft) / Lower limit (FL/ ft)	Speed (kts)	Remarks
RNAV 1	IF	ATUPI	231013.74S / 0170755.40E	Fly-By	-	-	-/FL200	-	-
RNAV 1	TF	EGLIK	225109.07S / 0171713.67E	Fly-By	024.3 / 036	20.9	-/9500	-	-
RNAV 1	TF	UNDID	224341.21S / 0171619.49E	Fly-By	353.6 / 006	7.5	-/9500	210	L
RNAV 1	TF	OLLIE	223948.57S / 0171546.04E	Fly-By	352.4 / 004	3.9	-/9500	185	IAF

AXODO 1A

Navigational performance	P/T	WPT Name	Latitude / Longitude	Fly-By or Fly- Over	True track (°) / Magnetic track (°)	Distance (nm)	Upper limit (FL/ft) / Lower limit (FL/ ft)	Speed (kts)	Remarks
RNAV 1	IF	AXODO	224257.21S / 0181936.53E	Fly-By	-	-	-/ FL200	-	-
RNAV 1	TF	SUDOG	223114.95S / 0174117.37E	Fly-By	288.1 / 300	37.3	-/ FL150	-	-
RNAV 1	TF	DUNBA	223739.32S / 0172803.15E	Fly-By	242.4 / 254	13.8	-/ FL150	250	L
RNAV 1	TF	TETUR	224145.87S / 0171929.59E	Fly-By	242.6 / 255	8.9	-/ 9500	210	-
RNAV 1	TF	OLLIE	223948.57S / 0171546.04E	Fly-By	299.5 / 311	4.0	-/ 9500	185	IAF

Hold Identification – ATUPI

Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspace (kts)	Maximum/ Minimum Holding Level / Altitude (FL/ft)	Outbound time (min)	Direction of turn
ATUPI	231013.74S / 0170755.40E	024.4	036	315	FL460 / FL200	1	L

Hold Identification – AXODO

Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspace (kts)	Maximum/ Minimum Holding Level / Altitude (FL/ft)	Outbound time (min)	Direction of turn
AXODO	224257.21S / 0181936.53E	288.0	300	315	FL460 / FL200	1	R

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

TRANSITION ALTITUDE
10000 FT

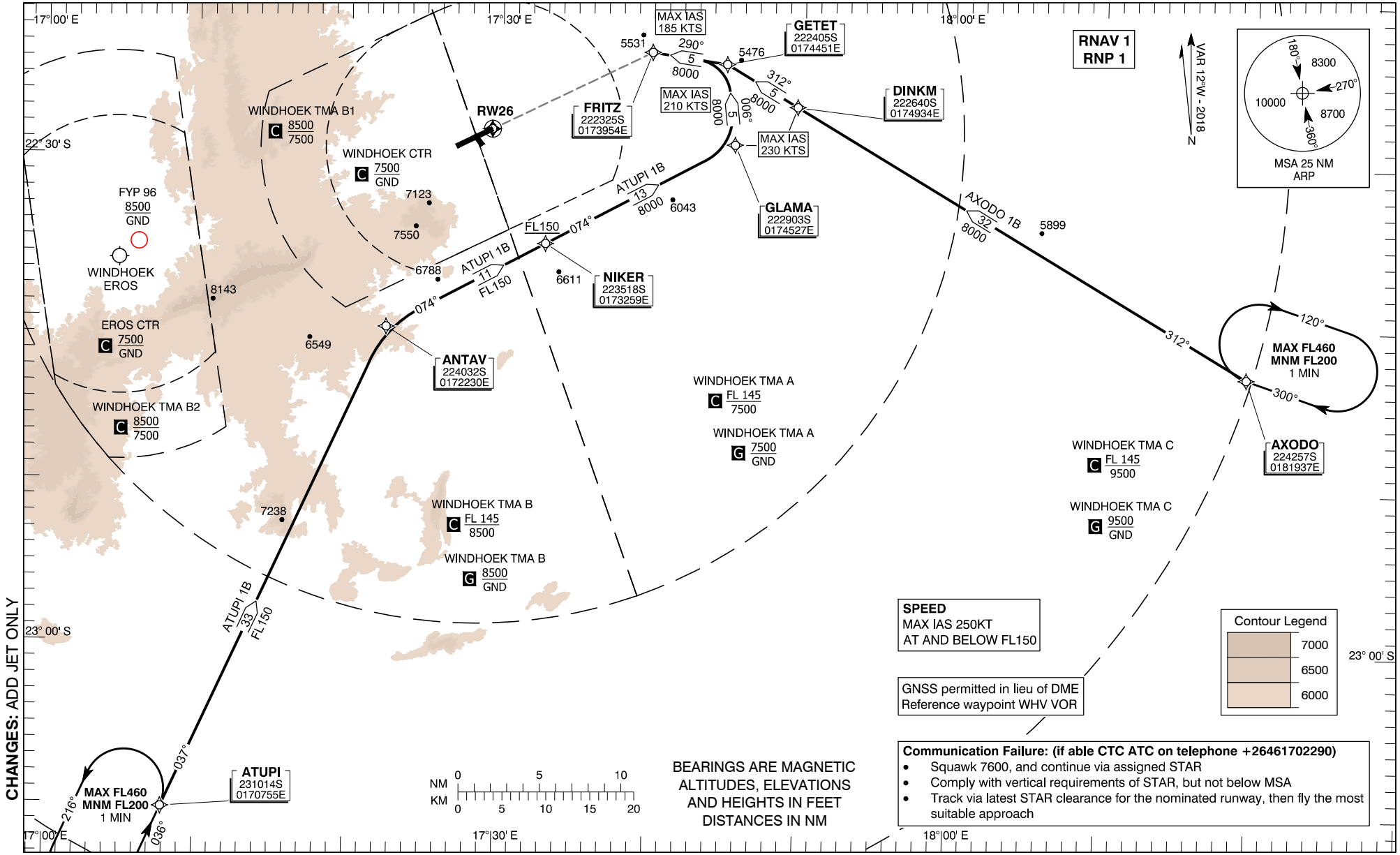
ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK - Hosea Kutako/Intl. (FYWH)

JET ONLY

RWY 26

ATUPI 1B, AXODO 1B



CHANGES: ADD JET ONLY

ATUPI 1B RWY 26

- From ATUPI track 037° to ANTAV
- From ANTAV track 074° to NIKER. CROSS NIKER AT OR ABV FL150
- From NIKER track 074° to GLAMA. MAX IAS 230KT from GLAMA
- From GLAMA track 006° to GETET. MAX IAS 210KT from GETET
- From GETET track 290° to FRITZ for ILS, LOC, or RNP RWY 26 approach. MAX IAS 185KT from FRITZ

AXODO 1B RWY 26

- From AXODO track 312° to DINKM. MAX IAS 230KT from DINKM
- From DINKM track 312° to GETET. MAX IAS 210KT from GETET
- From GETET track 290° to FRITZ for ILS, LOC, or RNP RWY 26 approach. MAX IAS 185KT from FRITZ

SUGGESTED DATABASE CODING - ATUPI 1B

Navigational performance	P/T	WPT Name	Latitude / Longitude	Fly-By or Fly- Over	True track (°) / Magnetic track (°)	Distance (nm)	Upper limit (FL/ft) / Lower limit (FL/ ft)	Speed (kts)	Remarks
RNAV 1	IF	ATUPI	231013.74S / 0170755.40E	Fly-By	-	-	-/ FL200	-	-
RNAV 1	TF	ANTAV	224032.11S / 0172229.78E	Fly-By	024.5 / 037	32.5	-/ FL150	-	-
RNAV 1	TF	NIKER	223517.77S / 0173258.90E	Fly-By	061.7 / 074	11.0	-/ FL150	250	R
RNAV 1	TF	GLAMA	222902.57S / 0174527.12E	Fly-By	061.7 / 074	13.1	-/ 8000	230	-
RNAV 1	TF	GETET	222405.06S / 0174450.72E	Fly-By	353.5 / 006	5.0	-/ 8000	210	L
RNAV 1	TF	FRITZ	222325.18S / 0173953.96E	Fly-By	278.2 / 290	4.6	-/ 8000	185	IF

AXODO 1B

Navigational performance	P/T	WPT Name	Latitude / Longitude	Fly-By or Fly- Over	True track (°) / Magnetic track (°)	Distance (nm)	Upper limit (FL/ft) / Lower limit (FL/ ft)	Speed (kts)	Remarks
RNAV 1	IF	AXODO	224257.21S / 0181936.53E	Fly-By	-	-	-/ FL200	-	-
RNAV 1	TF	DINKM	222639.90S / 0174933.71E	Fly-By	300.2 / 312	32.2	-/ 8000	230	-
RNAV 1	TF	GETET	222405.06S / 0174450.72E	Fly-By	300.5 / 312	5.1	-/ 8000	210	-
RNAV 1	TF	FRITZ	222325.18S / 0173953.96E	Fly-By	278.2 / 290	4.6	-/ 8000	185	IF

Hold Identification – ATUPI

Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspace (kts)	Maximum/ Minimum Holding Level / Altitude (FL/ft)	Outbound time (min)	Direction of turn
ATUPI	231013.74S / 0170755.40E	024.4	036	315	FL460 / FL200	1	L

Hold Identification – AXODO

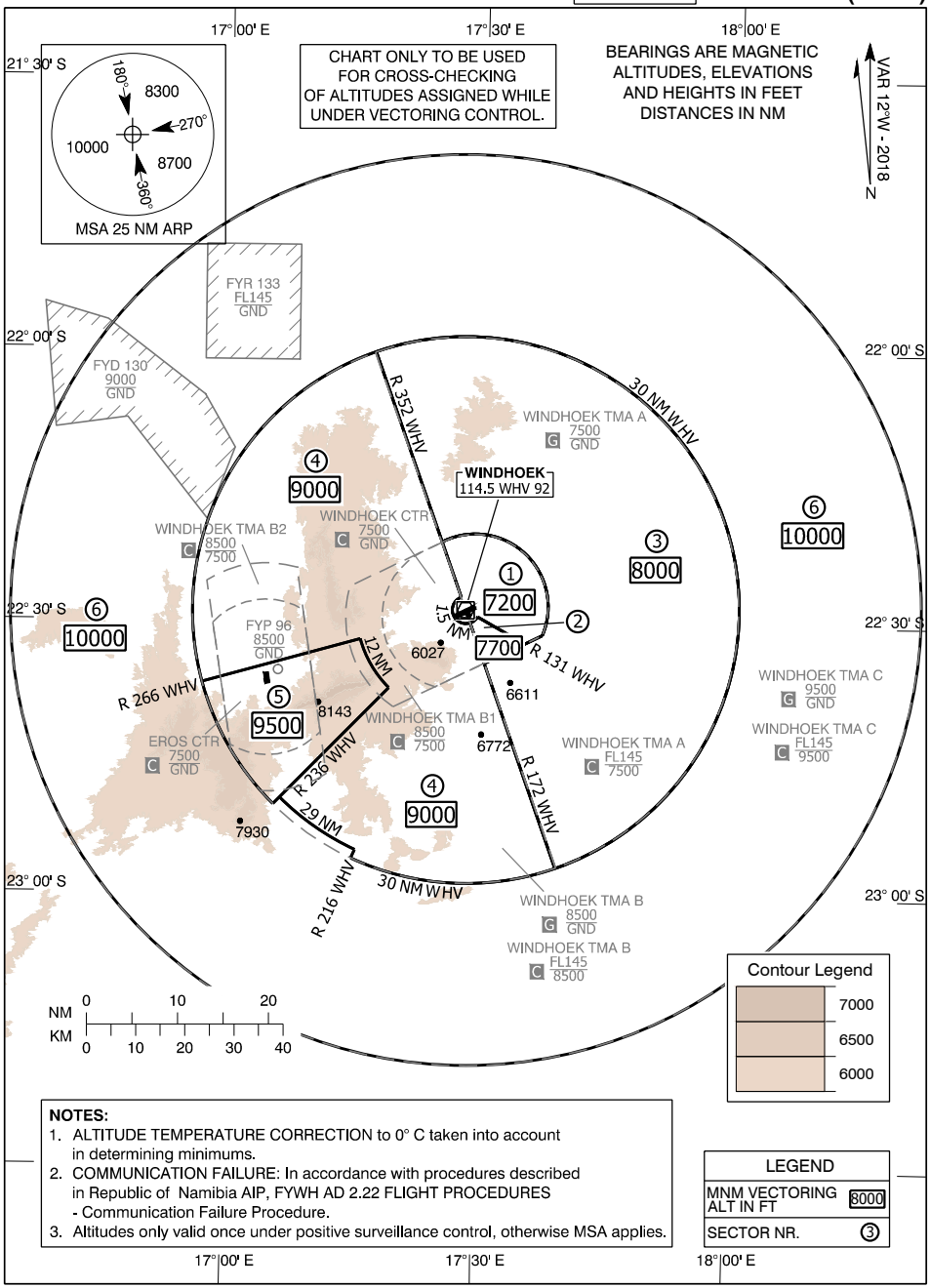
Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspace (kts)	Maximum/ Minimum Holding Level / Altitude (FL/ft)	Outbound time (min)	Direction of turn
AXODO	224257.21S / 0181936.53E	288.0	300	315	FL460 / FL200	1	R

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

AERODROME ELEV - **5641 FT**
TRANSITION ALT - **10000 FT**

ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK
Hosea Kutako/Intl.
(FYWH)



NOTES:

1. ALTITUDE TEMPERATURE CORRECTION to 0° C taken into account in determining minimums.
2. COMMUNICATION FAILURE: In accordance with procedures described in Republic of Namibia AIP, FYWH AD 2.22 FLIGHT PROCEDURES - Communication Failure Procedure.
3. Altitudes only valid once under positive surveillance control, otherwise MSA applies.

LEGEND	
MNM VECTORING ALT IN FT	8000
SECTOR NR.	③

CHANGES: NEW

ATC Surveillance Minimum Altitude Coordinates

Sector 1. MNM ALT 7200 FT
22°21'11"S 017°25'19"E, 22°27'14"S 017°27'41"E,
arc 1.5 NM radius centre 22°28'39"S 017°28'14"E,
22°29'22"S 017°29'39"E, 22°32'16"S 017°35'17"E,
22°31'19"S 017°37'21"E,
arc 8 NM radius centre 22°28'17"S 017°29'21"E,
22°21'05"S 017°25'34"E, 22°21'11"S 017°25'19"E

Sector 2. MNM ALT 7700 FT
22°32'16"S 017°35'17"E, 22°29'22"S 017°29'39"E,
arc 1.5 NM radius centre 22°28'39"S 017°28'14"E,
22°30'03"S 017°28'47"E, 22°34'28"S 017°30'31"E,
22°32'16"S 017°35'17"E

Sector 3. MNM ALT 8000 FT
22°21'11"S 017°25'19"E, 22°00'21"S 017°17'12"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°56'55"S 017°39'21"E, 22°34'28"S 017°30'31"E,
22°31'19"S 017°37'21"E,
arc 8 NM radius centre 22°28'17"S 017°29'21"E,
22°21'05"S 017°25'34"E, 22°21'11"S 017°25'19"E

Sector 4. MNM ALT 9000 FT
22°00'21"S 017°17'12"E, 22°27'14"S 017°27'41"E,
arc 1.5 NM radius centre 22°28'39"S 017°28'14"E,
22°30'03"S 017°28'47"E, 22°56'55"S 017°39'21"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°56'07"S 017°15'01"E, 22°55'13"S 017°15'28"E,
arc 29 NM radius centre 22°28'39"S 017°28'14"E,
22°49'33"S 017°06'26"E, 22°37'18"S 017°19'14"E,
arc 12 NM radius centre 22°28'39"S 017°28'14"E,
22°31'57"S 017°15'47"E, 22°36'53"S 016°57'04"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°00'21"S 017°17'12"E

Sector 5. MNM ALT 9500 FT
22°36'53"S 016°57'04"E, 22°31'57"S 017°15'47"E,
arc 12 NM radius centre 22°28'39"S 017°28'14"E,
22°37'18"S 017°19'14"E, 22°50'16"S 017°05'41"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°36'53"S 016°57'04"E

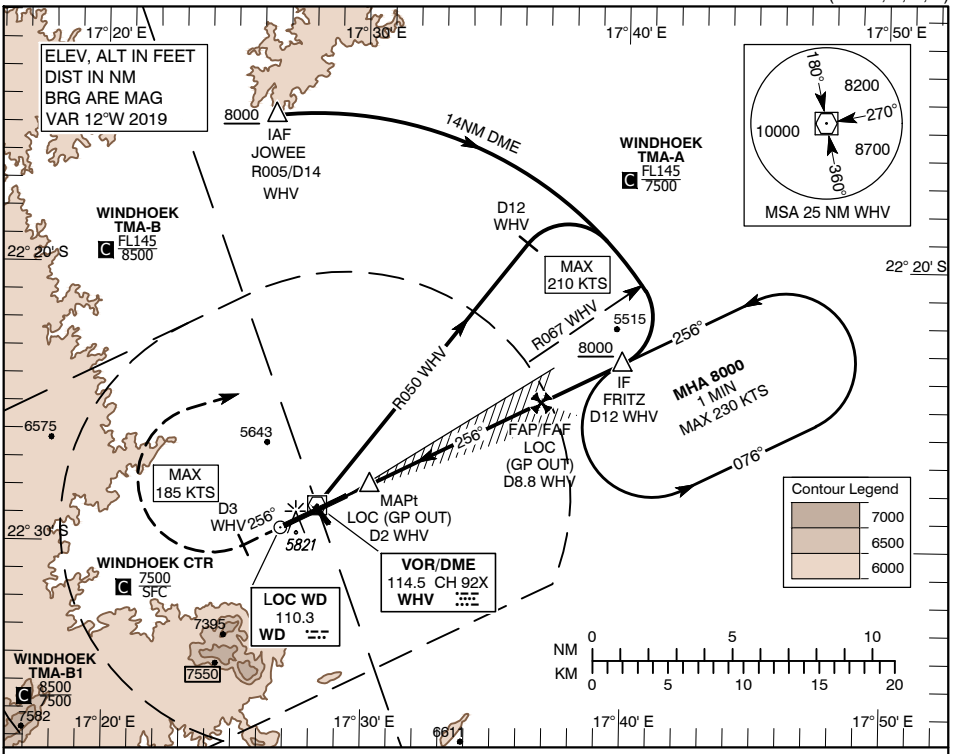
Sector 6. MNM ALT 10000 FT
22°56'07"S 017°15'01"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°50'16"S 017°05'41"E, 22°49'33"S 017°06'26"E,
arc 29 NM radius centre 22°28'39"S 017°28'14"E,
22°55'13"S 017°15'28"E, 22°56'07"S 017°15'01"E
Arc 50NM radius centre 22°28'39"S 017°28'28"E

INSTRUMENT APPROACH CHART - ICAO

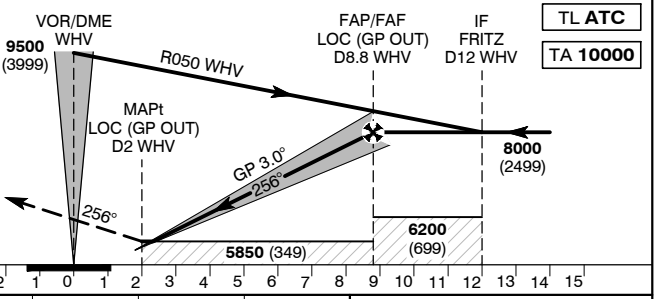
AERODROME ELEV - **5641 FT**
HEIGHT RELATED TO
THR RWY - **26** ELEV - **5501 FT**

ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK (FYWH)
Hosea Kutako/Intl
ILS or LOC RWY 26
(CAT A, B, C, D)



MISSED APPROACH:
Climb straight ahead on track 256°.
At D3 WHV turn right
(MAX IAS 185KTS) and
intercept R050 outbound. At D12
WHV turn right (MAX IAS 210KTS)
to intercept D14 ARC WHV.
Passing R067 intercept the LOC
and continue to FRITZ to join the hold
or as instructed by ATC.
Climb to 8000ft.

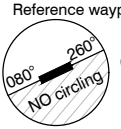


TL **ATC**
TA **10000**

Aircraft CAT		A	B	C	D
OCA (H)	ILS CAT I	**5706** (205)	**5719** (218)	**5729** (228)	**5739** (238)
OCA (H)	LOC (GP OUT)	**5850** (349)			
	Circling	**6140** (499)	**6250** (609)	**6520** (879)	**6590** (949)

Dist fm WHV DME	NM	3	4	5	6	7	8
Altitude	FT	6155	6475	6795	7115	7430	7750
Ground Speed	KTS	80	100	120	140	160	
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850	

NOTES:
1. Initial approach altitude WHV 9500 or higher MSA.
2. Track shortening inside FRITZ not permitted.
3. WHV DME required.
4. GNSS permitted in lieu of DME. Reference waypoint WHV VOR.



Circling to the SOUTH prohibited

CHANGES: NEW

ILS CAT I approach

Fix	IAF JOWEE	FRITZ D12 WHV	FAF D8.8 WHV	MATP D3 WHV	MATP D12 WHV	VOR/DME WHV
Fix coordinates	221441.4S 0172627.6E	222325.2S 0173954.0E	222451.0S 0173648.5E	223006.4S 0172524.3E	221909.0S 0173612.2E	222838.5S 0172814.1E
Fix Formation Bearing °T	353.25 WHV	063.64 WD	063.65 WD	240.87 WHV	0.38.00 WHV	-
Fix Formation Distances	14.00 WHV	11.99 WHV	8.80 WHV	3.00 WHV	12.00 WHV	-

LOC only approach

Descent Angle:	3.00 °						
Fix	IAF JOWEE	FRITZ D12 WHV	FAF D8.8 WHV	MAPt D2.0 WHV	MAPt D3.0 WHV	MATP D12 WHV	VOR/DME WHV
Fix Coordinates	221441.4S 0172627.6E	222325.2S 0173954.0E	222451.0S 0173648.5E	222753.0S 0173014.0E	223006.4S 0172524.3E	221909.0S 0173612.2E	222838.5S 0172814.1E
Fix Formation Bearing °T	353.25 WHV	063.64 WD	063.65 WD	063.64 WD	240.87 WHV	0.38.00 WHV	-
Fix Formation Distances	14.00 WHV	11.99 WHV	8.80 WHV	2.00 WHV	3.00 WHV	12.00 WHV	-

Holding Identification – FRITZ D12 WHV

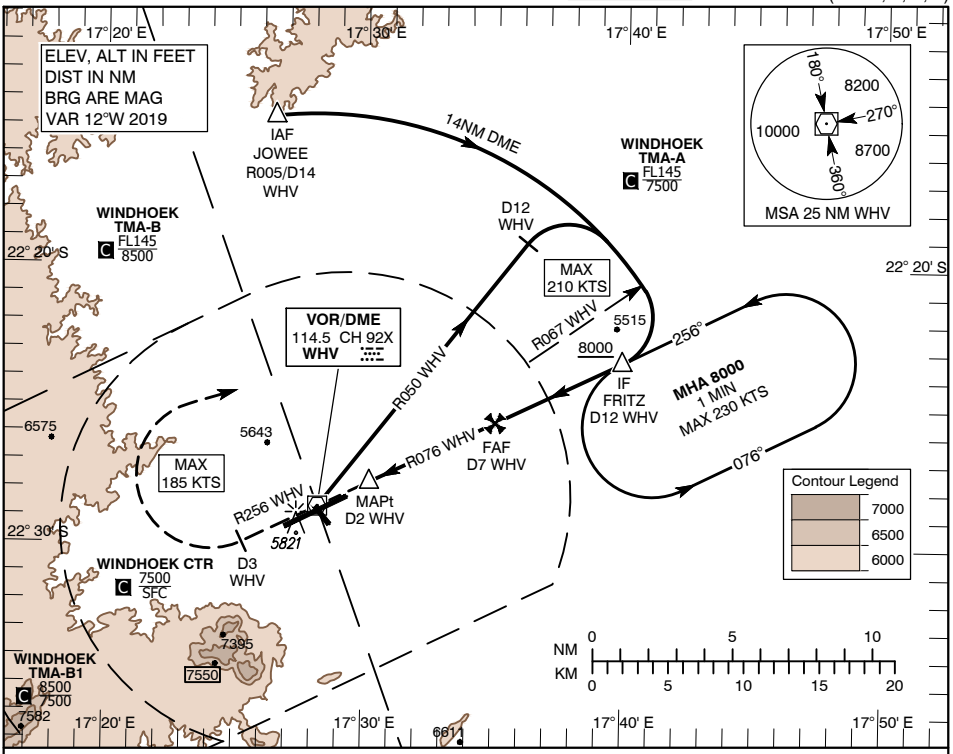
Holding Fix	Latitude /Longitude	Inbound True Track (degrees)	Inbound Magnetic Track (degrees)	Maximum Indicated Airspeed (kts)	Maximum/Minimum Holding Level / Altitude (FL/ft)	Outbound time (min)	Direction of Turn
FRITZ D12 WHV	222325.2S 0173954.0E	243.5	256	230	- / 8000	1	L

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **5641 FT**
HEIGHT RELATED TO
THR RWY - **26** ELEV - **5501 FT**

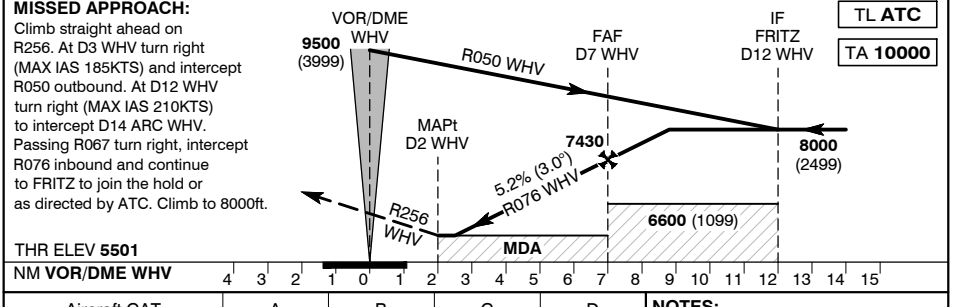
ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK (FYWH)
Hosea Kutako/Intl
CIRCLING VOR RWY 26
(CAT A, B, C, D)



MISSED APPROACH:
Climb straight ahead on R256. At D3 WHV turn right (MAX IAS 185KTS) and intercept R050 outbound. At D12 WHV turn right (MAX IAS 210KTS) to intercept D14 ARC WHV. Passing R067 turn right, intercept R076 inbound and continue to FRITZ to join the hold or as directed by ATC. Climb to 8000ft.

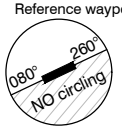
THR ELEV **5501**



Aircraft CAT		A	B	C	D
OCA (H)	Circling	**6140** (499)	**6250** (609)	**6520** (879)	**6590** (949)

Ground Speed	KTS	80	100	120	140	160
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850

NOTES:
1. Initial approach altitude WHV 9500 or higher MSA.
2. Track shortening inside FRITZ not permitted.
3. WHV DME required.
4. GNSS permitted in lieu of DME. Reference waypoint WHV VOR.



Circling to the SOUTH prohibited

CHANGES: NEW

VOR approach

Nominal Descent Angle:	3.00 °						
Fix	IAF JOWEE	FRITZ D12 WHV	FAF D7.0 WHV	MAPt D2.0 WHV	MATP D3 WHV	MATP D12 WHV	VOR/DMEWHV
Fix Coordinates	221441.4S 0172627.6E	222325.2S 0173954.0E	222535.9S 0173502.3E	222745.4S 0173012.9E	222956.8S 0172518.9E	221909.0S 0173612.2E	222838.5S 0172814.1E
Fix Formation Bearing °T	353.25 WHV	064.32 WHV	064.32 WHV	064.32 WHV	244.32 WHV	0.38.00 WHV	-
Fix Formation Distances	14.00 WHV	11.99 WHV	6.99 WHV	2.04 WHV	3.00 WHV	12.00 WHV	-

Holding Identification – FRITZ D12 WHV

Holding Fix	Latitude /Longitude	Inbound True Track (degrees)	Inbound Magnetic Track (degrees)	Maximum Indicated Airspeed (kts)	Maximum/Minimum Holding Level /Altitude (FL/ft)	Outbound time (min)	Direction of Turn
FRITZ D12 WHV	222325.2S 0173954.0E	243.5	256	230	- / 8000	1	L

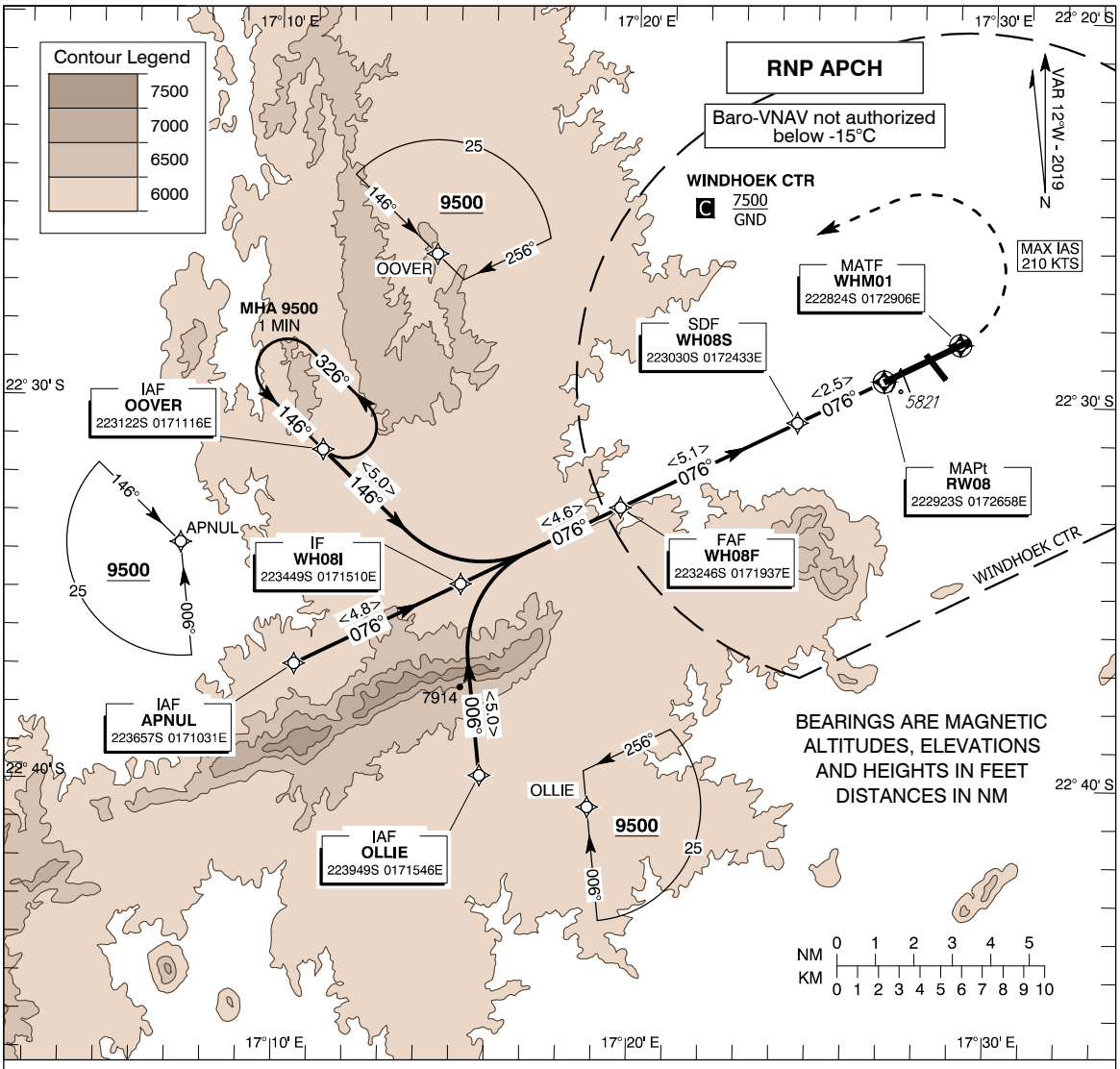
INSTRUMENT APPROACH CHART - ICAO

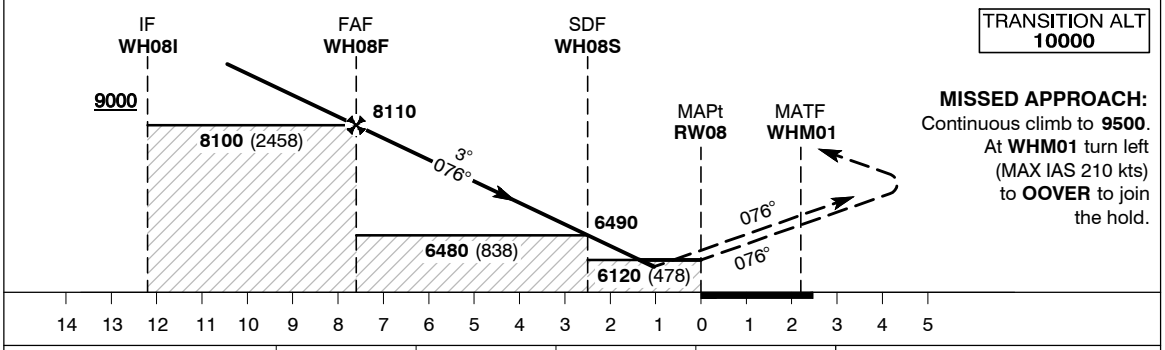
AERODROME ELEV - **5641 FT**
HEIGHT RELATED TO
THR RWY - **08** ELEV - **5642 FT**

ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK - Hosea Kutako/Intl. (FYWH)

RNP RWY 08





Aircraft cat		A	B	C	D
MDA (OCH) VIS	LNAV/VNAV	5980 (338) 1300	6000 (358) 1400	6010 (368) 1500	6020 (378) 1500
	LNAV	6120 (478) 2000			

Distance to MAPt	NM	7	6	5	4	3	2
Altitude	FT	7920(2278)	7600(1958)	7280(1638)	6960(1318)	6650(1008)	6330(688)
Ground Speed	KTS	80	100	120	140	160	
Rate of Descent (3°)	FT/MIN	425	531	637	743	849	

NOTE:
1. Track shortening inside IAF not permitted.

CHANGES: Straight-in Initial leg, TAA.

Database coding RNP Runway 08

#	ID	Latitude	Longitude	P/T	Fly-over	Course (°T)	Turn Direction	Altitude (ft)	Dist. (nm)	Speed Limit (kts)	Remarks
1	OLLIE	22°39'48.57"S	017°15'46.04"E	IF	N	-	-	-	-	-	-
2	WH08I	22°34'49.38"S	017°15'10.13"E	TF	N	353.64	-	-	5	-	-
3	WH08F	22°32'46.41"S	017°19'37.23"E	TF	N	063.65	-	8100	4.6	-	-
4	WH08S	22°30'30.00"S	017°24'33.34"E	TF	N	063.64	-	-	5.1	-	-
5	RW08	22°29'23.07"S	017°26'58.44"E	TF	Y	063.61	-	-	2.5	-	-
6	WHM01	22°28'24.27"S	017°29'06.09"E	CF	Y	063.64	L	-	-	-	086° WHV / D0.8 WHV
7	OOVER	22°31'21.67"S	017°11'15.54"E	DF	N		-	-	-	210	

#	ID	Latitude	Longitude	P/T	Fly-over	Course (°T)	Turn Direction	Altitude (ft)	Dist. (nm)	Speed Limit (kts)	Remarks
1	APNUL	22°36'57.00"S	017°10'31.00"E	IF	N	-	-	-	-	-	-
2	WH08I	22°34'49.38"S	017°15'10.13"E	TF	N	063.8	-	-	4.8	-	-
3	WH08F	22°32'46.41"S	017°19'37.23"E	TF	N	063.65	-	8100	4.6	-	-
4	WH08S	22°30'30.00"S	017°24'33.34"E	TF	N	063.64	-	-	5.1	-	-
5	RW08	22°29'23.07"S	017°26'58.44"E	TF	Y	063.61	-	-	2.5	-	-
6	WHM01	22°28'24.27"S	017°29'06.09"E	CF	Y	063.64	L	-	-	-	086° WHV / D0.8 WHV
7	OOVER	22°31'21.67"S	017°11'15.54"E	DF	N	-	-	-	-	210	-

#	ID	Latitude	Longitude	P/T	Fly-over	Course (°T)	Turn Direction	Altitude (ft)	Dist. (nm)	Speed Limit (kts)	Remarks
1	OOVER	22°31'21.67"S	017°11'15.54"E	IF	N	-	-	-	-	-	-
2	WH08I	22°34'49.38"S	017°15'10.13"E	TF	N	133.64	-	-	5	-	-
3	WH08F	22°32'46.41"S	017°19'37.23"E	TF	N	063.65	-	8100	4.6	-	-
4	WH08S	22°30'30.00"S	017°24'33.34"E	TF	N	063.64	-	-	5.1	-	-
5	RW08	22°29'23.07"S	017°26'58.44"E	TF	Y	063.61	-	-	2.5	-	-
6	WHM01	22°28'24.27"S	017°29'06.09"E	CF	Y	063.64	L	-	-	-	086° WHV / D0.8 WHV
7	OOVER	22°31'21.67"S	017°11'15.54"E	DF	N	-	-	-	-	210	-

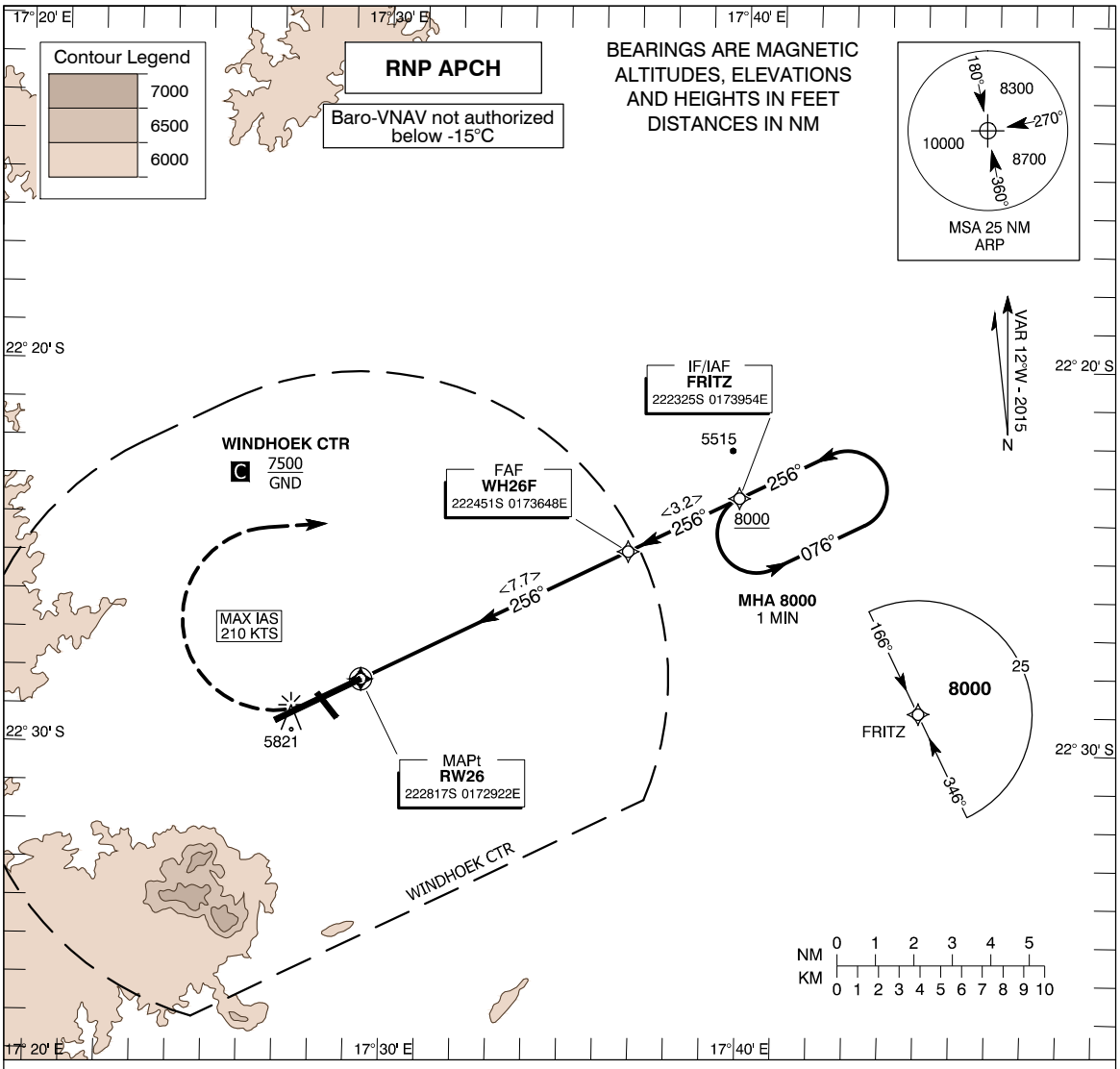
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV - **5641 FT**
HEIGHT RELATED TO
THR RWY - **26** ELEV - **5500 FT**

ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

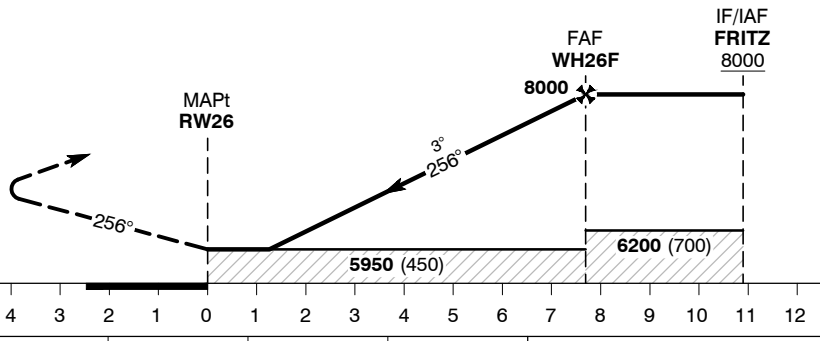
WINDHOEK - Hosea Kutako/Intl. (FYWH)

RNP RWY 26



TRANSITION ALT
10000

MISSED APPROACH:
Continuous climb to **8000**.
At **RW26** turn right
(MAX IAS 210 kts)
to **FRITZ** to join the hold.



Aircraft cat		A	B	C	D
MDA (OCH) VIS	LNAV/VNAV	5920 (420) 1300	5940 (440) 1400	5950 (450) 1500	5950 (450) 1500
	LNAV	5950 (450) 2000			

Distance to MAPt	NM	2	3	4	5	6	7	7.5
Altitude	FT	6190 (690)	6500 (1000)	6820 (1320)	7140 (1640)	7460 (1960)	7780 (2280)	7940 (2440)
Ground Speed	KTS	80	100	120	140	160		
Rate of Descent (3°)	FT/MIN	425	531	637	743	849		

NOTE:
1. Track shortening inside IAF not permitted

CHANGES: Note, Scale removed

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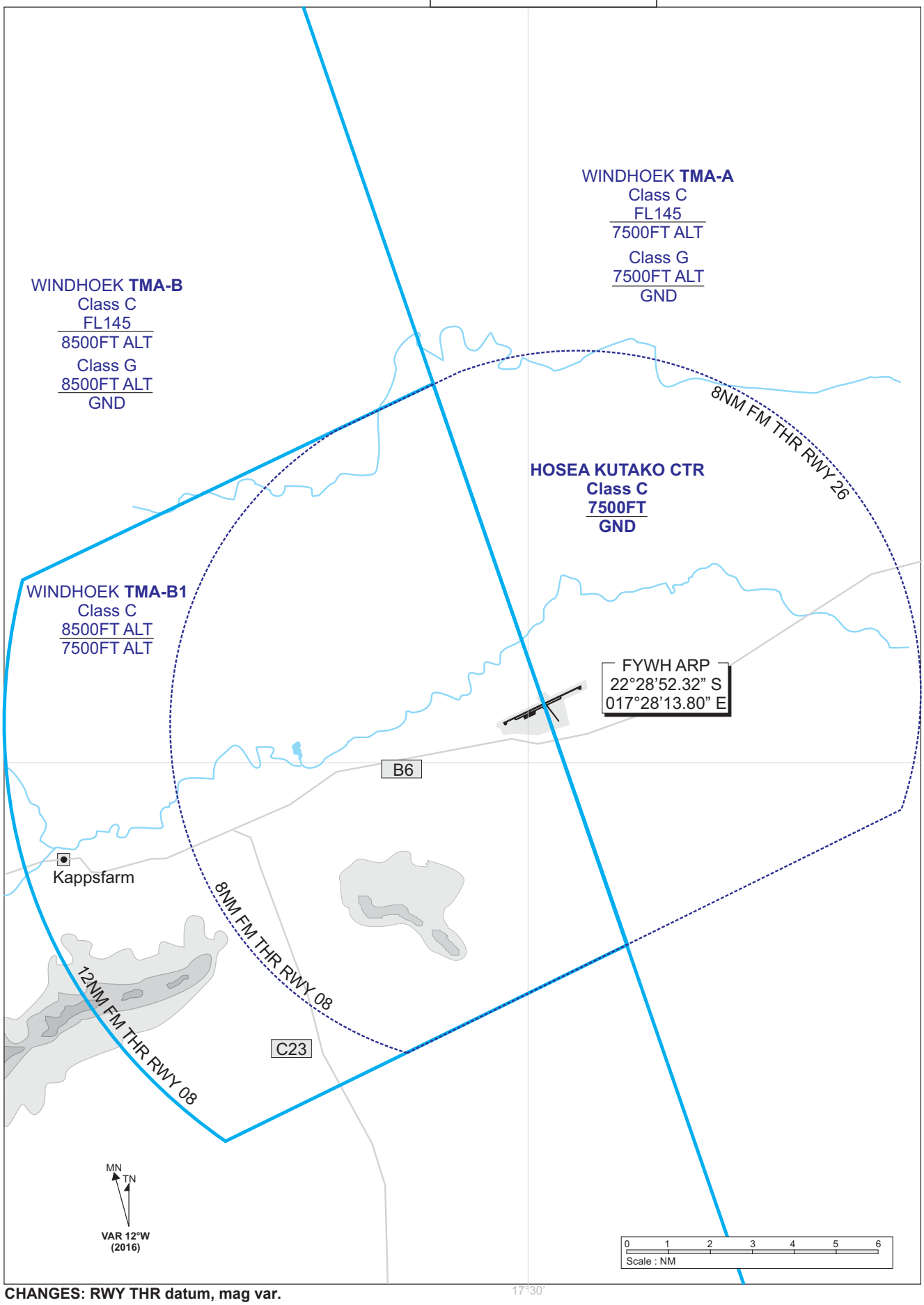
VISUAL APPROACH CHART

AERODROME ELEV 5640'

HOSEA KUTAKO:
TWR 118.1 Mhz
ATIS 126.2 Mhz

HOSEA KUTAKO CTR



CHANGES: RWY THR datum, mag var.

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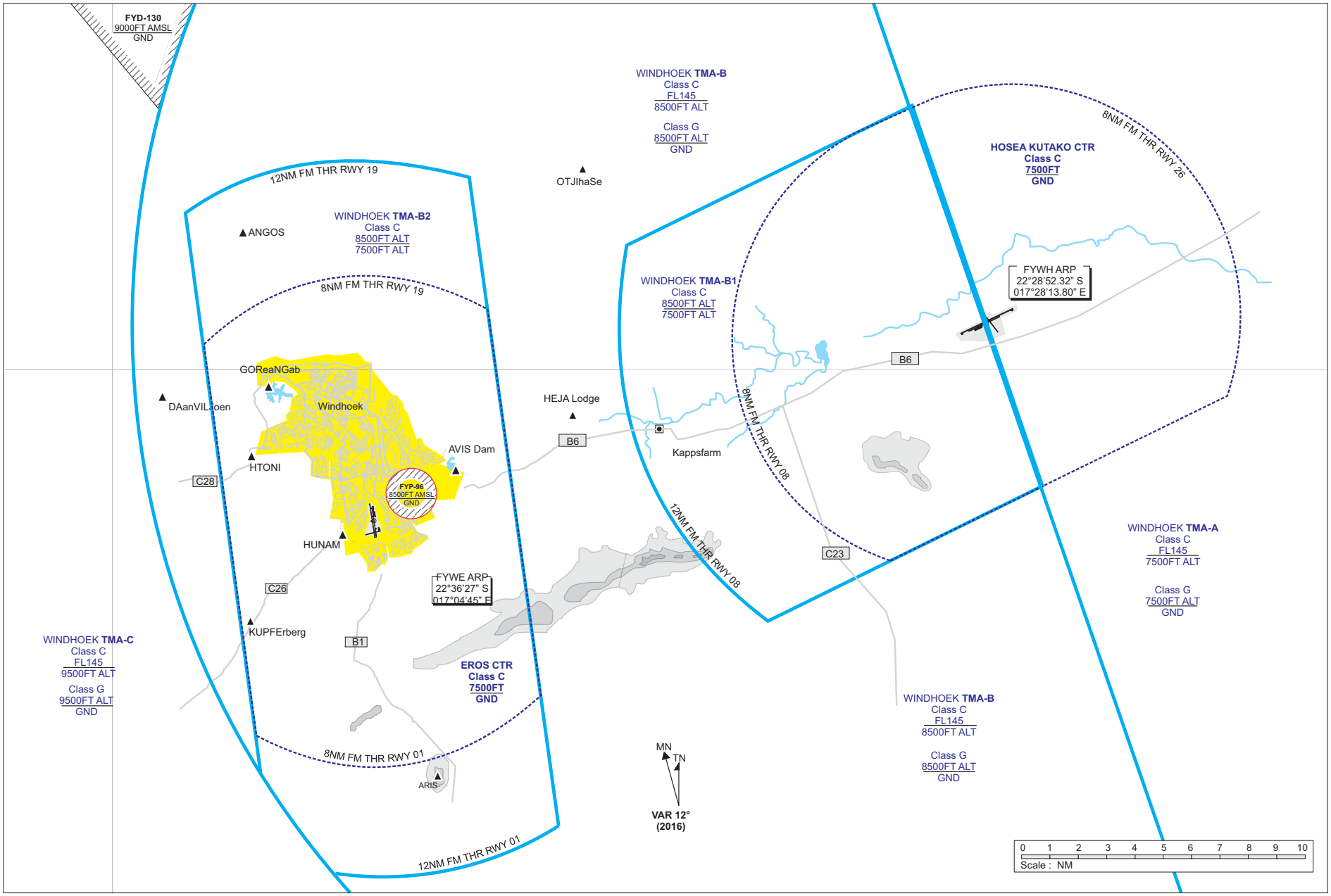
VISUAL APPROACH CHART

EROS & HOSEA KUTAKO CTR

CTR NAMIBIA



CHANGES: RWY THR datum, mag var

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