

AIP

AERONAUTICAL INFORMATION PUBLICATION

Republic of Namibia

PART 3

AERODROME (AD)

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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) March
- b) July
- c) 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3.2.3 When an AIP AMDT will not be published on the established publication date, a NIL notification shall be originated and distribution by means of the monthly printed Plain Language Summary of NOTAM in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 702082/2203
Email: aip@ncaa.na

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AD 0.3 RECORD OF AIP SUPPLEMENTS

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AD 0.4 CHECKLIST OF AIP PAGES

<i>Page</i>	<i>Date</i>	<i>Page</i>	<i>Date</i>	<i>Page</i>	<i>Date</i>
PART 3 - AERODROMES		0.6-9	08 OCT 2020	FYAR AD 2-3	12 NOV 2015
AD 0		0.6-10	08 OCT 2020	FYAR AD 2-4	12 NOV 2015
0.1-1	28 NOV 2024	0.6-11	27 NOV 2025	FYAR AD 2-5	12 NOV 2015
0.1-2	28 NOV 2024	0.6-12	27 NOV 2025	FYAR AD 2-6	12 NOV 2015
0.2-1	09 JUL 2026	0.6-13	28 NOV 2024	FYGB AD 2-1	26 MAY 2016
0.2-2	09 JUL 2026	0.6-14	28 NOV 2024	FYGB AD 2-2	26 MAY 2016
0.3-1	30 JAN 2020	0.6-15	28 NOV 2024	FYGB AD 2-3	15 OCT 1997
0.3-2	30 JAN 2020	0.6-16	28 NOV 2024	FYGB AD 2-4	15 OCT 1997
0.4-1	09 JUL 2026	0.6-17	28 NOV 2024	FYGB AD 2-5	05 DEC 2019
0.4-2	09 JUL 2026	0.6-18	28 NOV 2024	FYGB AD 2-6	05 DEC 2019
0.4-3	09 JUL 2026	AD 1		FYGB AD 2-7	30 JAN 2020
0.4-4	09 JUL 2026	1.1-1	10 NOV 2016	FYGB AD 2-8	30 JAN 2020
0.4-5	19 MAR 2026	1.1-2	10 NOV 2016	FYGF AD 2-1	29 MAR 2018
0.4-6	19 MAR 2026	1.2-1	15 DEC 2011	FYGF AD 2-2	29 MAR 2018
0.5-1	30 JAN 2020	1.2-2	15 DEC 2011	FYGF AD 2-3	15 MAY 2007
0.5-2	30 JAN 2020	1.3-1	19 JUL 2018	FYGF AD 2-4	15 MAY 2007
0.6-1	28 NOV 2024	1.3-2	19 JUL 2018	FYGF AD 2-5	15 NOV 2002
0.6-2	28 NOV 2024	1.4-1	05 DEC 2019	FYGF AD 2-6	15 NOV 2002
0.6-3	18 JUL 2019	1.4-2	05 DEC 2019	FYGF AD 2-7	08 OCT 2020
0.6-4	18 JUL 2019	1.5-1	09 JUL 2026	FYGF AD 2-8	08 OCT 2020
0.6-5	08 OCT 2020	1.5-2	09 JUL 2026	FYGF AD 2-9	05 DEC 2019
0.6-6	08 OCT 2020	AD 2		FYGF AD 2-10	05 DEC 2019
0.6-7	08 OCT 2020	FYAR AD 2-1	21 MAR 2024	FYKM AD 2-1	09 JUL 2026
0.6-8	08 OCT 2020	FYAR AD 2-2	21 MAR 2024	FYKM AD 2-2	09 JUL 2026

<i>Page</i>	<i>Date</i>	<i>Page</i>	<i>Date</i>	<i>Page</i>	<i>Date</i>
FYKM AD 2-3	28 JUN 2012	FYKT AD 2-14	08 OCT 2020	FYMO AD 2-1	26 MAY 2016
FYKM AD 2-4	28 JUN 2012	FYKT AD 2-15	08 OCT 2020	FYMO AD 2-2	26 MAY 2016
FYKM AD 2-5	09 SEP 2021	FYKT AD 2-16	08 OCT 2020	FYMO AD 2-3	15 APR 1996
FYKM AD 2-6	09 SEP 2021	FYKT AD 2-17	08 OCT 2020	FYMO AD 2-4	15 APR 1996
FYKM AD 2-7	09 JUL 2026	FYKT AD 2-18	08 OCT 2020	FYMO AD 2-5	15 APR 1998
FYKM AD 2-8	09 JUL 2026	FYLZ AD 2-1	21 MAR 2024	FYMO AD 2-6	15 APR 1998
FYKM AD 2-9	23 APR 2020	FYLZ AD 2-2	21 MAR 2024	FYMO AD 2-7	15 APR 1996
FYKM AD 2-10	23 APR 2020	FYLZ AD 2-3	30 NOV 2023	FYMO AD 2-8	15 APR 1996
FYKM AD 2-11	09 JUL 2026	FYLZ AD 2-4	30 NOV 2023	FYOA AD 2-1	21 MAR 2024
FYKM AD 2-12	09 JUL 2026	FYLZ AD 2-5	23 APR 2020	FYOA AD 2-2	21 MAR 2024
FYKM AD 2-13	09 JUL 2026	FYLZ AD 2-6	23 APR 2020	FYOA AD 2-3	03 NOV 2022
FYKM AD 2-14	09 JUL 2026	FYLZ AD 2-7	21 MAR 2024	FYOA AD 2-4	03 NOV 2022
FYKT AD 2-1	21 MAR 2024	FYLZ AD 2-8	21 MAR 2024	FYOA AD 2-5	03 NOV 2022
FYKT AD 2-2	21 MAR 2024	FYLZ AD 2-9	23 APR 2020	FYOA AD 2-6	03 NOV 2022
FYKT AD 2-3	11 JUL 2024	FYLZ AD 2-10	23 APR 2020	FYOA AD 2-7	18 MAY 2023
FYKT AD 2-4	11 JUL 2024	FYLZ AD 2-11	23 APR 2020	FYOA AD 2-8	18 MAY 2023
FYKT AD 2-5	23 APR 2020	FYLZ AD 2-12	23 APR 2020	FYOA AD 2-9	11 JUL 2024
FYKT AD 2-6	23 APR 2020	FYLZ AD 2-13	23 APR 2020	FYOA AD 2-10	11 JUL 2024
FYKT AD 2-7	10 NOV 2016	FYLZ AD 2-14	23 APR 2020	FYOA AD 2-11	21 MAR 2024
FYKT AD 2-8	10 NOV 2016	FYML AD 2-1	26 MAY 2016	FYOA AD 2-12	21 MAR 2024
FYKT AD 2-9	08 OCT 2020	FYML AD 2-2	26 MAY 2016	FYOA AD 2-13	08 OCT 2020
FYKT AD 2-10	08 OCT 2020	FYML AD 2-3	10 NOV 2016	FYOA AD 2-14	08 OCT 2020
FYKT AD 2-11	08 OCT 2020	FYML AD 2-4	10 NOV 2016	FYOA AD 2-15	08 OCT 2020
FYKT AD 2-12	08 OCT 2020	FYML AD 2-5	15 APR 1996	FYOA AD 2-16	08 OCT 2020
FYKT AD 2-13	08 OCT 2020	FYML AD 2-6	15 APR 1996	FYOA AD 2-17	08 OCT 2020

Page	Date	Page	Date	Page	Date
FYOA AD 2-18	08 OCT 2020	FYRU AD 2-5	23 APR 2020	FYWB AD 2-6	09 JUL 2026
FYOA AD 2-19	21 MAR 2024	FYRU AD 2-6	23 APR 2020	FYWB AD 2-7	09 JUL 2026
FYOA AD 2-20	21 MAR 2024	FYRU AD 2-7	28 NOV 2024	FYWB AD 2-8	09 JUL 2026
FYOA AD 2-21	21 MAR 2024	FYRU AD 2-8	28 NOV 2024	FYWB AD 2-9	09 JUL 2026
FYOA AD 2-22	21 MAR 2024	FYSA AD 2-1	26 MAY 2016	FYWB AD 2-10	09 JUL 2026
FYOG AD 2-1	27 NOV 2025	FYSA AD 2-2	26 MAY 2016	FYWB AD 2-11	09 JUL 2026
FYOG AD 2-2	27 NOV 2025	FYSA AD 2-3	23 APR 2020	FYWB AD 2-12	09 JUL 2026
FYOG AD 2-3	27 NOV 2025	FYSA AD 2-4	23 APR 2020	FYWB AD 2-13	09 JUL 2026
FYOG AD 2-4	27 NOV 2025	FYSA AD 2-5	15 MAY 2003	FYWB AD 2-14	09 JUL 2026
FYOG AD 2-5	27 NOV 2025	FYSA AD 2-6	15 MAY 2003	FYWB AD 2-15	09 JUL 2026
FYOG AD 2-6	27 NOV 2025	FYSM AD 2-1	28 NOV 2024	FYWB AD 2-16	09 JUL 2026
FYOG AD 2-7	27 NOV 2025	FYSM AD 2-2	28 NOV 2024	FYWB AD 2-17	09 JUL 2026
FYOG AD 2-8	27 NOV 2025	FYSM AD 2-3	19 MAR 2026	FYWB AD 2-18	09 JUL 2026
FYOG AD 2-9	27 NOV 2025	FYSM AD 2-4	19 MAR 2026	FYWB AD 2-19	28 NOV 2024
FYOG AD 2-10	27 NOV 2025	FYSM AD 2-5	19 MAR 2026	FYWB AD 2-20	28 NOV 2024
FYOG AD 2-11	27 NOV 2025	FYSM AD 2-6	19 MAR 2026	FYWB AD 2-21	28 NOV 2024
FYOG AD 2-12	27 NOV 2025	FYSM AD 2-7	19 MAR 2026	FYWB AD 2-22	28 NOV 2024
FYOG AD 2-13	27 NOV 2025	FYSM AD 2-8	19 MAR 2026	FYWB AD 2-23	09 JUL 2026
FYOG AD 2-14	27 NOV 2025	FYSM AD 2-9	19 MAR 2026	FYWB AD 2-24	09 JUL 2026
FYOG AD 2-15	27 NOV 2025	FYSM AD 2-10	19 MAR 2026	FYWB AD 2-25	28 NOV 2024
FYOG AD 2-16	27 NOV 2025	FYWB AD 2-1	09 JUL 2026	FYWB AD 2-26	28 NOV 2024
FYRU AD 2-1	21 MAR 2024	FYWB AD 2-2	09 JUL 2026	FYWB AD 2-27	09 JUL 2026
FYRU AD 2-2	21 MAR 2024	FYWB AD 2-3	19 MAR 2026	FYWB AD 2-28	09 JUL 2026
FYRU AD 2-3	28 JUN 2012	FYWB AD 2-4	19 MAR 2026	FYWB AD 2-29	09 JUL 2026
FYRU AD 2-4	28 JUN 2012	FYWB AD 2-5	09 JUL 2026	FYWB AD 2-30	09 JUL 2026

Page	Date	Page	Date	Page	Date
FYWB AD 2-31	09 JUL 2026	FYWE AD 2-19	28 NOV 2024	FYWH AD 2-15	27 NOV 2025
FYWB AD 2-32	09 JUL 2026	FYWE AD 2-20	28 NOV 2024	FYWH AD 2-16	27 NOV 2025
FYWB AD 2-33	28 NOV 2024	FYWE AD 2-21	28 NOV 2024	FYWH AD 2-17	09 JUL 2026
FYWB AD 2-34	28 NOV 2024	FYWE AD 2-22	28 NOV 2024	FYWH AD 2-18	09 JUL 2026
FYWB AD 2-35	28 NOV 2024	FYWE AD 2-23	28 NOV 2024	FYWH AD 2-19	19 MAR 2026
FYWB AD 2-36	28 NOV 2024	FYWE AD 2-24	28 NOV 2024	FYWH AD 2-20	19 MAR 2026
FYWB AD 2-37	15 MAY 2025	FYWE AD 2-25	28 NOV 2024	FYWH AD 2-21	08 OCT 2020
FYWB AD 2-38	15 MAY 2025	FYWE AD 2-26	28 NOV 2024	FYWH AD 2-22	08 OCT 2020
FYWE AD 2-1	11 JUL 2024	FYWE AD 2-27	28 NOV 2024	FYWH AD 2-23	09 JUL 2026
FYWE AD 2-2	11 JUL 2024	FYWE AD 2-28	28 NOV 2024	FYWH AD 2-24	09 JUL 2026
FYWE AD 2-3	28 NOV 2024	FYWE AD 2-29	28 NOV 2024	FYWH AD 2-25	09 JUL 2026
FYWE AD 2-4	28 NOV 2024	FYWE AD 2-30	28 NOV 2024	FYWH AD 2-26	09 JUL 2026
FYWE AD 2-5	28 NOV 2024	FYWH AD 2-1	27 NOV 2025	FYWH AD 2-27	09 JUL 2026
FYWE AD 2-6	28 NOV 2024	FYWH AD 2-2	27 NOV 2025	FYWH AD 2-28	09 JUL 2026
FYWE AD 2-7	09 JUL 2026	FYWH AD 2-3	27 NOV 2025	FYWH AD 2-29	09 JUL 2026
FYWE AD 2-8	09 JUL 2026	FYWH AD 2-4	27 NOV 2025	FYWH AD 2-30	09 JUL 2026
FYWE AD 2-9	09 JUL 2026	FYWH AD 2-5	19 MAR 2026	FYWH AD 2-31	15 MAY 2025
FYWE AD 2-10	09 JUL 2026	FYWH AD 2-6	19 MAR 2026	FYWH AD 2-32	15 MAY 2025
FYWE AD 2-11	28 NOV 2024	FYWH AD 2-7	27 NOV 2025	FYWH AD 2-33	09 JUL 2026
FYWE AD 2-12	28 NOV 2024	FYWH AD 2-8	27 NOV 2025	FYWH AD 2-34	09 JUL 2026
FYWE AD 2-13	28 NOV 2024	FYWH AD 2-9	27 NOV 2025	FYWH AD 2-35	09 JUL 2026
FYWE AD 2-14	28 NOV 2024	FYWH AD 2-10	27 NOV 2025	FYWH AD 2-36	09 JUL 2026
FYWE AD 2-15	27 NOV 2025	FYWH AD 2-11	19 MAR 2026	FYWH AD 2-37	07 AUG 2025
FYWE AD 2-16	27 NOV 2025	FYWH AD 2-12	19 MAR 2026	FYWH AD 2-38	07 AUG 2025
FYWE AD 2-17	27 NOV 2025	FYWH AD 2-13	27 NOV 2025	FYWH AD 2-39	07 AUG 2025
FYWE AD 2-18	27 NOV 2025	FYWH AD 2-14	27 NOV 2025		

<i>Page</i>	<i>Date</i>	<i>Page</i>	<i>Date</i>
FYWH AD 2-40	07 AUG 2025		
FYWH AD 2-41	15 MAY 2025		
FYWH AD 2-42	15 MAY 2025		
FYWH AD 2-43	21 MAR 2024		
FYWH AD 2-44	21 MAR 2024		
FYWH AD 2-25	28 NOV 2024		
FYWH AD 2-46	28 NOV 2024		

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PART 3 - AERODROMES (AD)

AD 0.

AD 0.6 TABLE OF CONTENTS TO PART 3

Page

AD 0.1. Preface

1. Name of the publishing Authority.....AD 0.1-1
2. Applicable ICAO documents.....AD 0.1-1
3. The AIP structure and established regular amendment interval.....AD 0.1-1
4. Service to contact in case of detected AIP errors.....AD 0.1-2

AD 0.2 Record of AIP amendments.....AD 0.2-1

AD 0.3 Record of AIP Supplements.....AD 0.3-1

AD 0.4 Checklist of AIP pages.....AD 0.4-1

AD 0.5 List of hand amendments to the AIP.....AD 0.5-1

AD 0.6 Table of contents.....AD 0.6-1

AD 1. AERODROMES/HELIPORTS - INTRODUCTION

AD 1.1 AERODROME/HELIPORT AVAILABILITY AD 1.1-1

1. General conditions under which aerodromes/heliports and associated facilities are available for use AD 1.1-1
2. Applicable ICAO documents AD 1.1-2
3. Civil use of military air bases..... AD 1.1-2
4. CAT II/III operations at aerodromes AD 1.1-2
5. Friction measuring device used and friction level below which the runway is declared slippery when it is wet..... AD 1.1-2
6. Other information..... AD 1.1-2

AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN AD 1.2-1

1. Rescue and fire fighting services AD 1.2-1
2. Snow plan AD 1.2-1

AD 1.3 INDEX TO AERODROMES AND HELIPORTS AD 1.3-1

AD 1.4 GROUPING OF AERODROMES/HELIPORTS..... AD 1.4-1

- 1. Primary/major international aerodrome/heliport AD 1.4-1
- 2. Secondary/other international aerodrome/heliport AD 1.4-1
- 3. National aerodrome/heliport..... AD 1.4-1

AD 1.5 STATUS OF CERTIFICATION OF AERODROMES AD 1.5-1

AD 2. AERODROMES

FYAR AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYAR AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYAR AD 2.3 Operational hours.....	AD 2-1
FYAR AD 2.4 Handling services and facilities.....	AD 2-2
FYAR AD 2.5 Passenger facilities.....	AD 2-2
FYAR AD 2.6 Rescue and fire fighting services.....	AD 2-2
FYAR AD 2.7 Seasonal availability – clearing.....	AD 2-2
FYAR AD 2.8 Aprons, taxiways and check locations data.....	AD 2-2
FYAR AD 2.9 Surface movement guidance and control system and markings.....	AD 2-2
FYAR AD 2.10 Aerodrome obstacles.....	AD 2-3
FYAR AD 2.11 Meteorological information provided.....	AD 2-3
FYAR AD 2.12 Runway physical characteristics.....	AD 2-3
FYAR AD 2.13 Declared distances.....	AD 2-4
FYAR AD 2.14 Approach and runway lighting.....	AD 2-4
FYAR AD 2.15 Other lighting, secondary power supply.....	AD 2-4
FYAR AD 2.16 Helicopter landing area.....	AD 2-4
FYAR AD 2.17 ATS airspace.....	AD 2-5
FYAR AD 2.18 ATS communication facilities.....	AD 2-5
FYAR AD 2.19 Radio navigation and landing aids.....	AD 2-5
FYAR AD 2.20 Local traffic regulations	AD 2-5
FYAR AD 2.21 Noise abatement procedures.....	AD 2-5
FYAR AD 2.22 Flight procedures.....	AD 2-5

FYAR AD 2.23 Additional information.....	AD 2-6
FYAR AD 2.24 Charts related to an aerodrome.....	AD 2-6
FYGB AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYGB AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYGB AD 2.3 Operational hours.....	AD 2-1
FYGB AD 2.4 Handling services and facilities.....	AD 2-2
FYGB AD 2.5 Passenger facilities.....	AD 2-2
FYGB AD 2.6 Rescue and fire fighting services.....	AD 2-2
FYGB AD 2.7 Seasonal availability – clearing.....	AD 2-2
FYGB AD 2.8 Aprons, taxiways and check locations data.....	AD 2-2
FYGB AD 2.9 Surface movement guidance and control system and markings.....	AD 2-3
FYGB AD 2.10 Aerodrome obstacles.....	AD 2-3
FYGB AD 2.11 Meteorological information provided.....	AD 2-4
FYGB AD 2.12 Runway physical characteristics.....	AD 2-5
FYGB AD 2.13 Declared distances.....	AD 2-5
FYGB AD 2.14 Approach and runway lighting.....	AD 2-6
FYGB AD 2.15 Other lighting, secondary power supply.....	AD 2-6
FYGB AD 2.16 Helicopter landing area.....	AD 2-6
FYGB AD 2.17 ATS airspace.....	AD 2-6
FYGB AD 2.18 ATS communication facilities.....	AD 2-6
FYGB AD 2.19 Radio navigation and landing aids.....	AD 2-6
FYGB AD 2.20 Local traffic regulations.....	AD 2-6
FYGB AD 2.21 Noise abatement procedures.....	AD 2-7
FYGB AD 2.22 Flight procedures.....	AD 2-7

FYGB AD 2.23 Additional information.....	AD 2-7
FYGB AD 2.24 Charts related to an aerodrome.....	AD 2-7
FYGF AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYGFAD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYGF AD 2.3 Operational hours.....	AD 2-2
FYGF AD 2.4 Handling services and facilities.....	AD 2-2
FYGF AD 2.5 Passenger facilities.....	AD 2-3
FYGF AD 2.6 Rescue and fire fighting services.....	AD 2-3
FYGF AD 2.7 Seasonal availability – clearing.....	AD 2-3
FYGF AD 2.8 Aprons, taxiways and check locations data.....	AD 2-3
FYGF AD 2.9 Surface movement guidance and control system and markings.....	AD 2-4
FYGF AD 2.10 Aerodrome obstacles.....	AD 2-4
FYGF AD 2.11 Meteorological information provided.....	AD 2-5
FYGF AD 2.12 Runway physical characteristics.....	AD 2-6
FYGF AD 2.13 Declared distances.....	AD 2-6
FYGF AD 2.14 Approach and runway lighting.....	AD 2-7
FYGF AD 2.15 Other lighting, secondary power supply.....	AD 2-7
FYGF AD 2.16 Helicopter landing area.....	AD 2-7
FYGF AD 2.17 ATS airspace.....	AD 2-7
FYGF AD 2.18 ATS communication facilities.....	AD 2-7
FYGF AD 2.19 Radio navigation and landing aids.....	AD 2-8
FYGF AD 2.20 Local traffic regulations.....	AD 2-8
FYGF AD 2.21 Noise abatement procedures.....	AD 2-8
FYGF AD 2.22 Flight procedures.....	AD 2-9

FYGF AD 2.23 Additional information.....	AD 2-9
FYGF AD 2.24 Charts related to an aerodrome.....	AD 2-9
FYKM AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYKM AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYKM AD 2.3 Operational hours.....	AD 2-1
FYKM AD 2.4 Handling services and facilities.....	AD 2-2
FYKM AD 2.5 Passenger facilities.....	AD 2-3
FYKM AD 2.6 Rescue and fire fighting services.....	AD 2-3
FYKM AD 2.7 Seasonal availability – clearing.....	AD 2-3
FYKM AD 2.8 Aprons, taxiways and check locations data.....	AD 2-3
FYKM AD 2.9 Surface movement guidance and control system and markings.....	AD 2-4
FYKM AD 2.10 Aerodrome obstacles.....	AD 2-4
FYKM AD 2.11 Meteorological information provided.....	AD 2-5
FYKM AD 2.12 Runway physical characteristics.....	AD 2-5
FYKM AD 2.13 Declared distances.....	AD 2-6
FYKM AD 2.14 Approach and runway lighting.....	AD 2-6
FYKM AD 2.15 Other lighting, secondary power supply.....	AD 2-6
FYKM AD 2.16 Helicopter landing area.....	AD 2-6
FYKM AD 2.17 ATS airspace.....	AD 2-6
FYKM AD 2.18 ATS communication facilities.....	AD 2-6
FYKM AD 2.19 Radio navigation and landing aids.....	AD 2-7
FYKM AD 2.20 Local traffic regulations.....	AD 2-7
FYKM AD 2.21 Noise abatement procedures.....	AD 2-7
FYKM AD 2.22 Flight procedures.....	AD 2-7

FYKM AD 2.23 Additional information.....	AD 2-8
FYKM AD 2.24 Charts related to an aerodrome.....	AD 2-8
FYKT AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYKT AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYKT AD 2.3 Operational hours.....	AD 2-1
FYKT AD 2.4 Handling services and facilities.....	AD 2-2
FYKT AD 2.5 Passenger facilities.....	AD 2-3
FYKT AD 2.6 Rescue and fire fighting services.....	AD 2-3
FYKT AD 2.7 Seasonal availability – clearing.....	AD 2-3
FYKT AD 2.8 Aprons, taxiways and check locations data.....	AD 2-3
FYKT AD 2.9 Surface movement guidance and control system and markings.....	AD 2-4
FYKT AD 2.10 Aerodrome obstacles.....	AD 2-4
FYKT AD 2.11 Meteorological information provided.....	AD 2-5
FYKT AD 2.12 Runway physical characteristics.....	AD 2-6
FYKT AD 2.13 Declared distances.....	AD 2-6
FYKT AD 2.14 Approach and runway lighting.....	AD 2-7
FYKT AD 2.15 Other lighting, secondary power supply.....	AD 2-8
FYKT AD 2.16 Helicopter landing area.....	AD 2-8
FYKT AD 2.17 ATS airspace.....	AD 2-8
FYKT AD 2.18 ATS communication facilities.....	AD 2-9
FYKT AD 2.19 Radio navigation and landing aids.....	AD 2-9
FYKT AD 2.20 Local traffic regulations.....	AD 2-9
FYKT AD 2.21 Noise abatement procedures.....	AD 2-10
FYKT AD 2.22 Flight procedures.....	AD 2-10

FYKT AD 2.23 Additional information.....	AD 2-10
FYKT AD 2.24 Charts related to an aerodrome.....	AD 2-11
FYLZ AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYLZ AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYLZ AD 2.3 Operational hours.....	AD 2-1
FYLZ AD 2.4 Handling services and facilities.....	AD 2-2
FYLZ AD 2.5 Passenger facilities.....	AD 2-2
FYLZ AD 2.6 Rescue and fire fighting services.....	AD 2-2
FYLZ AD 2.7 Seasonal availability – clearing.....	AD 2-3
FYLZ AD 2.8 Aprons, taxiways and check locations data.....	AD 2-3
FYLZ AD 2.9 Surface movement guidance and control system and markings.....	AD 2-3
FYLZ AD 2.10 Aerodrome obstacles.....	AD 2-4
FYLZ AD 2.11 Meteorological information provided.....	AD 2-4
FYLZ AD 2.12 Runway physical characteristics.....	AD 2-5
FYLZ AD 2.13 Declared distances.....	AD 2-6
FYLZ AD 2.14 Approach and runway lighting.....	AD 2-6
FYLZ AD 2.15 Other lighting, secondary power supply.....	AD 2-6
FYLZ AD 2.16 Helicopter landing area.....	AD 2-6
FYLZ AD 2.17 ATS airspace.....	AD 2-6
FYLZ AD 2.18 ATS communication facilities.....	AD 2-7
FYLZ AD 2.19 Radio navigation and landing aids.....	AD 2-7
FYLZ AD 2.20 Local traffic regulations.....	AD 2-7
FYLZ AD 2.21 Noise abatement procedures.....	AD 2-8
FYLZ AD 2.22 Flight procedures.....	AD 2-8
FYLZ AD 2.23 Additional information.....	AD 2-8
FYLZ AD 2.24 Charts related to an aerodrome.....	AD 2-8

FYML AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYML AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYML AD 2.3 Operational hours.....	AD 2-1
FYML AD 2.4 Handling services and facilities.....	AD 2-1
FYML AD 2.5 Passenger facilities.....	AD 2-1
FYML AD 2.6 Rescue and fire fighting services.....	AD 2-2
FYML AD 2.7 Seasonal availability – clearing.....	AD 2-2
FYML AD 2.8 Aprons, taxiways and check locations data.....	AD 2-2
FYML AD 2.9 Surface movement guidance and control system and markings.....	AD 2-2
FYML AD 2.10 Aerodrome obstacles.....	AD 2-3
FYML AD 2.11 Meteorological information provided.....	AD 2-3
FYML AD 2.12 Runway physical characteristics.....	AD 2-4
FYML AD 2.13 Declared distances.....	AD 2-5
FYML AD 2.14 Approach and runway lighting.....	AD 2-5
FYML AD 2.15 Other lighting, secondary power supply.....	AD 2-5
FYML AD 2.16 Helicopter landing area.....	AD 2-5
FYML AD 2.17 ATS airspace.....	AD 2-5
FYML AD 2.18 ATS communication facilities.....	AD 2-5
FYML AD 2.19 Radio navigation and landing aids.....	AD 2-6
FYML AD 2.20 Local traffic regulations.....	AD 2-6
FYML AD 2.21 Noise abatement procedures.....	AD 2-6
FYML AD 2.22 Flight procedures.....	AD 2-6
FYML AD 2.23 Additional information.....	AD 2-6
FYML AD 2.24 Charts related to an aerodrome.....	AD 2-6

FYMO AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYMO AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYMO AD 2.3 Operational hours.....	AD 2-1
FYMO AD 2.4 Handling services and facilities.....	AD 2-2
FYMO AD 2.5 Passenger facilities.....	AD 2-2
FYMO AD 2.6 Rescue and fire fighting services.....	AD 2-2
FYMO AD 2.7 Seasonal availability – clearing.....	AD 2-2
FYMO AD 2.8 Aprons, taxiways and check locations data.....	AD 2-3
FYMO AD 2.9 Surface movement guidance and control system and markings.....	AD 2-3
FYMO AD 2.10 Aerodrome obstacles.....	AD 2-4
FYMO AD 2.11 Meteorological information provided.....	AD 2-4
FYMO AD 2.12 Runway physical characteristics.....	AD 2-5
FYMO AD 2.13 Declared distances.....	AD 2-5
FYMO AD 2.14 Approach and runway lighting.....	AD 2-5
FYMO AD 2.15 Other lighting, secondary power supply.....	AD 2-5
FYMO AD 2.16 Helicopter landing area.....	AD 2-5
FYMO AD 2.17 ATS airspace.....	AD 2-6
FYMO AD 2.18 ATS communication facilities.....	AD 2-6
FYMO AD 2.19 Radio navigation and landing aids.....	AD 2-6
FYMO AD 2.20 Local traffic regulations.....	AD 2-6
FYMO AD 2.21 Noise abatement procedures.....	AD 2-7
FYMO AD 2.22 Flight procedures.....	AD 2-7
FYMO AD 2.23 Additional information.....	AD 2-7
FYMO AD 2.24 Charts related to an aerodrome.....	AD 2-7

FYOA AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYOA AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYOA AD 2.3 Operational hours.....	AD 2-2
FYOA AD 2.4 Handling services and facilities.....	AD 2-2
FYOA AD 2.5 Passenger facilities.....	AD 2-3
FYOA AD 2.6 Rescue and fire fighting services.....	AD 2-3
FYOA AD 2.7 Seasonal availability – clearing.....	AD 2-3
FYOA AD 2.8 Aprons, taxiways and check locations data.....	AD 2-3
FYOA AD 2.9 Surface movement guidance and control system and markings.....	AD 2-4
FYOA AD 2.10 Aerodrome obstacles.....	AD 2-4
FYOA AD 2.11 Meteorological information provided.....	AD 2-5
FYOA AD 2.12 Runway physical characteristics.....	AD 2-7
FYOA AD 2.13 Declared distances.....	AD 2-7
FYOA AD 2.14 Approach and runway lighting.....	AD 2-8
FYOA AD 2.15 Other lighting, secondary power supply.....	AD 2-8
FYOA AD 2.16 Helicopter landing area.....	AD 2-8
FYOA AD 2.17 ATS airspace.....	AD 2-9
FYOA AD 2.18 ATS communication facilities.....	AD 2-9
FYOA AD 2.19 Radio navigation and landing aids.....	AD 2-9
FYOA AD 2.20 Local traffic regulations.....	AD 2-10
FYOA AD 2.21 Noise abatement procedures.....	AD 2-11
FYOA AD 2.22 Flight procedures.....	AD 2-11
FYOA AD 2.23 Additional information.....	AD 2-11
FYOA AD 2.24 Charts related to an aerodrome.....	AD 2-11

FYOG AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYOG AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYOG AD 2.3 Operational hours.....	AD 2-1
FYOG AD 2.4 Handling services and facilities.....	AD 2-2
FYOG AD 2.5 Passenger facilities.....	AD 2-2
FYOG AD 2.6 Rescue and fire fighting services.....	AD 2-2
FYOG AD 2.7 Seasonal availability – clearing.....	AD 2-2
FYOG AD 2.8 Aprons, taxiways and check locations data.....	AD 2-3
FYOG AD 2.9 Surface movement guidance and control system and markings.....	AD 2-3
FYOG AD 2.10 Aerodrome obstacles.....	AD 2-3
FYOG AD 2.11 Meteorological information provided.....	AD 2-4
FYOG AD 2.12 Runway physical characteristics.....	AD 2-5
FYOG AD 2.13 Declared distances.....	AD 2-6
FYOG AD 2.14 Approach and runway lighting.....	AD 2-6
FYOG AD 2.15 Other lighting, secondary power supply.....	AD 2-6
FYOG AD 2.16 Helicopter landing area.....	AD 2-7
FYOG AD 2.17 ATS airspace.....	AD 2-7
FYOG AD 2.18 ATS communication facilities.....	AD 2-7
FYOG AD 2.19 Radio navigation and landing aids.....	AD 2-8
FYOG AD 2.20 Local traffic regulations.....	AD 2-8
FYOG AD 2.21 Noise abatement procedures.....	AD 2-11
FYOG AD 2.22 Flight procedures.....	AD 2-11
FYOG AD 2.23 Additional information.....	AD 2-11
FYOG AD 2.24 Charts related to an aerodrome.....	AD 2-11

FYRU AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYRU AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYRU AD 2.3 Operational hours.....	AD 2-2
FYRU AD 2.4 Handling services and facilities.....	AD 2-2
FYRU AD 2.5 Passenger facilities.....	AD 2-3
FYRU AD 2.6 Rescue and fire fighting services.....	AD 2-3
FYRU AD 2.7 Seasonal availability – clearing.....	AD 2-3
FYRU AD 2.8 Aprons, taxiways and check locations data.....	AD 2-3
FYRU AD 2.9 Surface movement guidance and control system and markings.....	AD 2-4
FYRU AD 2.10 Aerodrome obstacles.....	AD 2-4
FYRU AD 2.11 Meteorological information provided.....	AD 2-5
FYRU AD 2.12 Runway physical characteristics.....	AD 2-6
FYRU AD 2.13 Declared distances.....	AD 2-6
FYRU AD 2.14 Approach and runway lighting.....	AD 2-7
FYRU AD 2.15 Other lighting, secondary power supply.....	AD 2-7
FYRU AD 2.16 Helicopter landing area.....	AD 2-7
FYRU AD 2.17 ATS airspace.....	AD 2-7
FYRU AD 2.18 ATS communication facilities.....	AD 2-7
FYRU AD 2.19 Radio navigation and landing aids.....	AD 2-7
FYRU AD 2.20 Local traffic regulations.....	AD 2-8
FYRU AD 2.21 Noise abatement procedures.....	AD 2-8
FYRU AD 2.22 Flight procedures.....	AD 2-8
FYRU AD 2.23 Additional information.....	AD 2-8
FYRU AD 2.24 Charts related to an aerodrome.....	AD 2-8

FYSA AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYSA AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYSA AD 2.3 Operational hours.....	AD 2-1
FYSA AD 2.4 Handling services and facilities.....	AD 2-2
FYSA AD 2.5 Passenger facilities.....	AD 2-2
FYSA AD 2.6 Rescue and fire fighting services.....	AD 2-2
FYSA AD 2.7 Seasonal availability – clearing.....	AD 2-2
FYSA AD 2.8 Aprons, taxiways and check locations data.....	AD 2-3
FYSA AD 2.9 Surface movement guidance and control system and markings.....	AD 2-3
FYSA AD 2.10 Aerodrome obstacles.....	AD 2-3
FYSA AD 2.11 Meteorological information provided.....	AD 2-3
FYSA AD 2.12 Runway physical characteristics.....	AD 2-4
FYSA AD 2.13 Declared distances.....	AD 2-4
FYSA AD 2.14 Approach and runway lighting.....	AD 2-4
FYSA AD 2.15 Other lighting, secondary power supply.....	AD 2-4
FYSA AD 2.16 Helicopter landing area.....	AD 2-4
FYSA AD 2.17 ATS airspace.....	AD 2-5
FYSA AD 2.18 ATS communication facilities.....	AD 2-5
FYSA AD 2.19 Radio navigation and landing aids.....	AD 2-5
FYSA AD 2.20 Local traffic regulations.....	AD 2-5
FYSA AD 2.21 Noise abatement procedures.....	AD 2-5
FYSA AD 2.22 Flight procedures.....	AD 2-5
FYSA AD 2.23 Additional information.....	AD 2-5
FYSA AD 2.24 Charts related to an aerodrome.....	AD 2-5

FYSM AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYSM AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYSM AD 2.3 Operational hours.....	AD 2-1
FYSM AD 2.4 Handling services and facilities.....	AD 2-2
FYSM AD 2.5 Passenger facilities.....	AD 2-3
FYSM AD 2.6 Rescue and fire fighting services.....	AD 2-3
FYSM AD 2.7 Seasonal availability – clearing.....	AD 2-3
FYSM AD 2.8 Aprons, taxiways and check locations data.....	AD 2-3
FYSM AD 2.9 Surface movement guidance and control system and markings.....	AD 2-3
FYSM AD 2.10 Aerodrome obstacles.....	AD 2-4
FYSM AD 2.11 Meteorological information provided.....	AD 2-4
FYSM AD 2.12 Runway physical characteristics.....	AD 2-5
FYSM AD 2.13 Declared distances.....	AD 2-6
FYSM AD 2.14 Approach and runway lighting.....	AD 2-6
FYSM AD 2.15 Other lighting, secondary power supply.....	AD 2-6
FYSM AD 2.16 Helicopter landing area.....	AD 2-6
FYSM AD 2.17 ATS airspace.....	AD 2-6
FYSM AD 2.18 ATS communication facilities.....	AD 2-6
FYSM AD 2.19 Radio navigation and landing aids.....	AD 2-7
FYSM AD 2.20 Local traffic regulations.....	AD 2-7
FYSM AD 2.21 Noise abatement procedures.....	AD 2-7
FYSM AD 2.22 Flight procedures.....	AD 2-7
FYSM AD 2.23 Additional information.....	AD 2-8
FYSM AD 2.24 Charts related to an aerodrome.....	AD 2-8

FYWB AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYWB AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYWB AD 2.3 Operational hours.....	AD 2-1
FYWB AD 2.4 Handling services and facilities.....	AD 2-2
FYWB AD 2.5 Passenger facilities.....	AD 2-3
FYWB AD 2.6 Rescue and fire fighting services.....	AD 2-3
FYWB AD 2.7 Seasonal availability – clearing.....	AD 2-4
FYWB AD 2.8 Aprons, taxiways and check locations data.....	AD 2-4
FYWB AD 2.9 Surface movement guidance and control system and markings.....	AD 2-5
FYWB AD 2.10 Aerodrome obstacles.....	AD 2-5
FYWB AD 2.11 Meteorological information provided.....	AD 2-7
FYWB AD 2.12 Runway physical characteristics.....	AD 2-8
FYWB AD 2.13 Declared distances.....	AD 2-9
FYWB AD 2.14 Approach and runway lighting.....	AD 2-9
FYWB AD 2.15 Other lighting, secondary power supply.....	AD 2-10
FYWB AD 2.16 Helicopter landing area.....	AD 2-10
FYWB AD 2.17 ATS airspace.....	AD 2-10
FYWB AD 2.18 ATS communication facilities.....	AD 2-11
FYWB AD 2.19 Radio navigation and landing aids.....	AD 2-11
FYWB AD 2.20 Local traffic regulations.....	AD 2-12
FYWB AD 2.21 Noise abatement procedures.....	AD 2-14
FYWB AD 2.22 Flight procedures.....	AD 2-14
FYWB AD 2.23 Additional information.....	AD 2-14
FYWB AD 2.24 Charts related to an aerodrome.....	AD 2-16

FYWE AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYWE AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYWE AD 2.3 Operational hours.....	AD 2-2
FYWE AD 2.4 Handling services and facilities.....	AD 2-3
FYWE AD 2.5 Passenger facilities.....	AD 2-3
FYWE AD 2.6 Rescue and fire fighting services.....	AD 2-3
FYWE AD 2.7 Seasonal availability – clearing.....	AD 2-4
FYWE AD 2.8 Aprons, taxiways and check locations data.....	AD 2-4
FYWE AD 2.9 Surface movement guidance and control system and markings.....	AD 2-5
FYWE AD 2.10 Aerodrome obstacles.....	AD 2-7
FYWE AD 2.11 Meteorological information provided.....	AD 2-9
FYWE AD 2.12 Runway physical characteristics.....	AD 2-11
FYWE AD 2.13 Declared distances.....	AD 2-12
FYWE AD 2.14 Approach and runway lighting.....	AD 2-12
FYWE AD 2.15 Other lighting, secondary power supply.....	AD 2-13
FYWE AD 2.16 Helicopter landing area.....	AD 2-13
FYWE AD 2.17 ATS airspace.....	AD 2-15
FYWE AD 2.18 ATS communication facilities.....	AD 2-15
FYWE AD 2.19 Radio navigation and landing aids.....	AD 2-15
FYWE AD 2.20 Local traffic regulations.....	AD 2-16
FYWE AD 2.21 Noise abatement procedures.....	AD 2-19
FYWE AD 2.22 Flight procedures.....	AD 2-19
FYWE AD 2.23 Additional information.....	AD 2-20
FYWE AD 2.24 Charts related to an aerodrome.....	AD 2-20

FYWH AD 2.1 Aerodrome location indicator and name.....	AD 2-1
FYWH AD 2.2 Aerodrome geographical and administrative data.....	AD 2-1
FYWH AD 2.3 Operational hours.....	AD 2-2
FYWH AD 2.4 Handling services and facilities.....	AD 2-2
FYWH AD 2.5 Passenger facilities.....	AD 2-3
FYWH AD 2.6 Rescue and fire fighting services.....	AD 2-3
FYWH AD 2.7 Seasonal availability – clearing.....	AD 2-3
FYWH AD 2.8 Aprons, taxiways and check locations data.....	AD 2-4
FYWH AD 2.9 Surface movement guidance and control system and markings.....	AD 2-4
FYWH AD 2.10 Aerodrome obstacles.....	AD 2-5
FYWH AD 2.11 Meteorological information provided.....	AD 2-8
FYWH AD 2.12 Runway physical characteristics.....	AD 2-9
FYWH AD 2.13 Declared distances.....	AD 2-10
FYWH AD 2.14 Approach and runway lighting.....	AD 2-10
FYWH AD 2.15 Other lighting, secondary power supply.....	AD 2-11
FYWH AD 2.16 Helicopter landing area.....	AD 2-11
FYWH AD 2.17 ATS airspace.....	AD 2-12
FYWH AD 2.18 ATS communication facilities.....	AD 2-12
FYWH AD 2.19 Radio navigation and landing aids.....	AD 2-13
FYWH AD 2.20 Local traffic regulations.....	AD 2-13
FYWH AD 2.21 Noise abatement procedures.....	AD 2-17
FYWH AD 2.22 Flight procedures.....	AD 2-17
FYWH AD 2.23 Additional information.....	AD 2-18
FYWH AD 2.24 Charts related to an aerodrome.....	AD 2-18
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

<i>Aerodrome name Location indicator</i>	<i>Date of certification</i>	<i>Validity of certification</i>	<i>Remark</i>
1	2	3 ¹	4
ARANDIS *FYAR	Not certified		
GOBABIS *FYGB	Not certified		
GROOTFONTEIN FYGF	Not certified		
KATIMA MULILO FYKM	Not certified		
KEETMANSHOP *FYKT	Not certified		
LUDERITZ FY LZ	Not certified		
MARIENTAL *FYML	Not certified		
MOKUTI *FYMO	Not certified		
ONDANGWA FYOA	Not certified		
ORANJEMUND *FYOG	Not certified		
RUNDU *FYRU	Not certified		
SCORPION MINE *FYSA	Not certified		
SWAKOPMUND *FYSM	Not certified		
WALVIS BAY INTL AIRPORT FYWB	05 December 2025	2 Years	Certified by NCAA
WINDHOEK EROS FYWE	07 February 2025	07 February 2028	Certified by NCAA
HOSEA KUTAKO INTL AIRPORT FYWH	05 December 2025	2 Years	Certified by NCAA
1. In column 3, the dash (-) indicates that the certificate does not have an end of validity, the certificate is perpetual. * The location indicators marked with an asterisk (*) cannot be used in the address component of AFS messages.			

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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: +264811502454 E-mail: walvisbay@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	MON-FRI: 0600 – 1500 SAT, SUN and Public Holidays: Closed
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
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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° Aircraft 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.	<i>ABN/IBN location, characteristics and hours of operation</i>	Nil facilities
2.	<i>LDI location and LGT</i> <i>Anemometer location and LGT</i>	Nil facilities
3.	<i>TWY edge and centre line lighting</i>	Nil facilities
4.	<i>Secondary power supply/switch-over time</i>	Nil facilities
5.	<i>Remarks</i>	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. | 6. Taxiing - Limitations
Nil INFO |
| 2. Taxiing to and from stands
Nil INFO | 7. School and training flights - Technical test flights - Use of runways
By prior arrangement with prior approval. |
| 3. Parking area for small aircraft (general aviation)
Limited parking available – by prior arrangement | 8. Helicopter traffic - Limitation
Nil INFO |
| 4. Parking area for helicopters
Nil INFO | 9. Removal of disabled aircraft from runways
Nil INFO |
| 5. Apron - Taxiing during winter conditions
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.	<i>Cargo-handling facilities</i>	Nil facilities
2.	<i>Fuel/oil types</i>	AVGAS D100
3.	<i>Fuelling facilities/capacity</i>	Sold in drums
4.	<i>De-icing facilities</i>	Nil facilities
5.	<i>Hangar space for visiting aircraft</i>	Nil facilities
6.	<i>Repair facilities for visiting aircraft</i>	Nil facilities
7.	<i>Remarks</i>	Supplier BP Telephone: (062) 562818 (work) Fax: (062) 562975

FYGB AD 2.5 PASSENGER FACILITIES

1.	<i>Hotels</i>	In town
2.	<i>Restaurants</i>	In town
3.	<i>Transportation</i>	Nil services
4.	<i>Medical facilities</i>	Hospital in town
5.	<i>Bank and post office</i>	In town
6.	<i>Tourist office</i>	Nil facilities
7.	<i>Remarks</i>	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.	<i>Apron surface and strength</i>	Surface: Gravel Strength: Nil available
2.	<i>Taxiway width, surface and strength</i>	Nil taxiways
3.	<i>ACL location and elevation</i>	Nil information
4.	<i>VOR/INS checkpoints</i>	Nil facilities
5.	<i>Remarks</i>	Nil

FYGB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	<i>Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands</i>	Nil facilities
2.	<i>RWY and TWY markings and LGT</i>	RWY designators
3.	<i>Stop bars</i>	Nil facilities
4.	<i>Remarks</i>	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.	<i>Associated Met office</i>	Nil facilities
2.	<i>Hours of service MET office outside hours</i>	Nil facilities
3.	<i>Office responsible for TAF preparation Periods of validity</i>	Windhoek
4.	<i>Type of landing forecast Interval of issuance</i>	Nil facilities
5.	<i>Briefing/consultation provided</i>	Nil facilities
6.	<i>Flight documentation Language(s) used</i>	Nil facilities
7.	<i>Charts and other information available for briefing or consultation</i>	Nil facilities
8.	<i>Supplementary equipment available for providing information</i>	Nil facilities
9.	<i>ATS units provided with information</i>	Nil facilities
10.	<i>Additional information (limitation of service, etc.)</i>	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

- | | |
|---|---|
| <p>1. Aerodrome regulations</p> <p>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.</p> <p>2. Taxiing to and from stands</p> <p>Nil limits.</p> <p>3. Parking area for small aircraft (general aviation)</p> <p>On apron.</p> <p>4. Parking area for helicopters</p> <p>Nil limits.</p> <p>5. Apron - Taxiing during winter conditions</p> <p>Nil limits.</p> | <p>6. Taxiing - Limitations</p> <p>Nil limits.</p> <p>7. School and training flights - Technical test flights - Use of runways</p> <p>Nil training.</p> <p>8. Helicopter traffic - Limitation</p> <p>Nil limits.</p> <p>9. Removal of disabled aircraft from runways</p> <p>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.</p> |
|---|---|

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

FYGF AD 2.4 HANDLING SERVICES AND FACILITIES

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

FYGF AD 2.5 PASSENGER FACILITIES

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

FYGF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

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

FYGF AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYGF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	<i>Apron surface and strength</i>	Surface: Concrete Strength: LCN Nil available
2.	<i>Taxiway width, surface and strength</i>	Width: 35 M Surface: Asphalt Strength: Nil information available
3.	<i>ACL location and elevation</i>	Nil information available
4.	<i>VOR/INS checkpoints</i>	Nil facilities
5.	<i>Remarks</i>	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.	<i>Associated Met office</i>	Grootfontein
2.	<i>Hours of service</i> <i>MET office outside hours</i>	0600 – 1500
3.	<i>Office responsible for TAF preparation</i> <i>Periods of validity</i>	Windhoek
4.	<i>Type of landing forecast</i> <i>Interval of issuance</i>	Nil forecast
5.	<i>Briefing/consultation provided</i>	MET observation only
6.	<i>Flight documentation</i> <i>Language(s) used</i>	Nil info English
7.	<i>Charts and other information available for briefing or consultation</i>	Nil facilities
8.	<i>Supplementary equipment available for providing information</i>	Nil facilities
9.	<i>ATS units provided with information</i>	FYWH
10.	<i>Additional information (limitation of service, etc.)</i>	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

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

<i>Slope of RWY-SWY</i>	<i>SWY Dimensions (M)</i>	<i>CWY Dimensions (M)</i>	<i>Strip Dimensions (M)</i>	<i>OFZ</i>	<i>Remarks</i>
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

<i>RWY Designator</i>	<i>TORA (M)</i>	<i>TODA (M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
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.	<i>Designation and lateral limits</i>	Grootfontein ATZ Circle 5NM Centre: 193610S 0180717E
2.	<i>Vertical limits</i>	GND to 6500 FT ALT
3.	<i>Airspace classification</i>	C
4.	<i>ATS unit call sign Language(s)</i>	Grootfontein Tower English
5.	<i>Transition altitude</i>	6500 FT ALT
6.	<i>Remarks</i>	HOD: See AD 2.3 on ATS

FYGF AD 2.18 ATS COMMUNICATION FACILITIES

<i>Service designation</i>	<i>Call sign</i>	<i>Frequency</i>	<i>Hours of operation</i>	<i>Remarks</i>
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	8° W (2025)/ 0.05° decreasing
5.	AD administration, address, telephone, telefax, telex, AFS	Namibia Airports Company Limited P.O. Box 23061 Windhoek Namibia AD Tel: +264 66 250211 Telefax: +264 66 250212 ATC. Tel: +264 66 250202/3 Controlling AD: +264 61 295 55500 Fax: +264 61 295 55600 E-mail: sinvulab@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	MON – FRI & SUN: 0600 – 1500 SAT: CLOSED
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	Nil
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	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: Vistrone! 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.	<i>Hotels</i>	In Katima Mulilo
2.	<i>Restaurants</i>	In Katima Mulilo
3.	<i>Transportation</i>	Nil facilities
4.	<i>Medical facilities</i>	Hospital in Katima Mulilo
5.	<i>Bank and post office</i>	In Katima Mulilo
6.	<i>Tourist office</i>	Nil facilities
7.	<i>Remarks</i>	Nil

FYKM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	<i>AD category for fire fighting</i>	CAT 5
2.	<i>Rescue equipment</i>	1 vehicle, 9000 litres water
3.	<i>Capability for removal of disabled aircraft</i>	NIL
4.	<i>Remarks</i>	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	<i>Apron surface and strength</i>	Surface: Asphalt Strength: Nil information available
2	<i>Taxiway width, surface and strength</i>	Width: 14 M Surface: asphalt Strength: Nil information available
3	<i>ACL location and elevation</i>	Nil information available
4	<i>VOR/INS checkpoints</i>	Nil facilities
5	<i>Remarks</i>	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 NBC Tower Elevation: 3125 FT Height: 235 M AGL/770 FT Top of mast: 3895 FT	173845.9S 0240938.7E 173106.4S 0241618.2E	

FYKM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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

FYKM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

<i>Designations RWY NR</i>	<i>TRUE BRG</i>	<i>Dimensions of RWY (M)</i>	<i>Strength (LCN) and surface of RWY and SWY</i>	<i>THR coordinates RWY end coordinates THR geoid undulation</i>	<i>THR Elevation and Highest Elevation of TDZ of Precision APP RWY</i>
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

<i>Slope of RWY- SWY</i>	<i>SWY Dimensions (M)</i>	<i>CWY Dimensions (M)</i>	<i>Strip Dimensions (M)</i>	<i>OFZ</i>	<i>Remarks</i>
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.	<i>Designation and lateral limits</i>	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.	<i>Vertical limits</i>	SFC to 6500FT MSL
3.	<i>Airspace classification</i>	D
4.	<i>ATS unit call sign</i> <i>Language(s)</i>	Katima Tower English
5.	<i>Transition altitude</i>	10 000FT MSL
6.	<i>Remarks</i>	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 FREQ 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

<i>Service designation</i>	<i>Call sign</i>	<i>Frequency</i>	<i>Hours of operation</i>	<i>Remarks</i>
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

<i>Type of aid, CAT of ILS/MLS (for VOR/ILS/MLS give VAR)</i>	<i>ID</i>	<i>Frequency</i>	<i>Hours of Operation</i>	<i>Position of transmitting antenna coordinates</i>	<i>Elevation of DME transmitting antenna</i>	<i>Remarks</i>
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

- | | |
|---|--|
| <p>1. Aerodrome regulations</p> <p>1.1 Circuit altitude</p> <p>a) Turbine-powered aircraft 5000FT ALT</p> <p>b) Reciprocating engine powered aircraft 4500FT ALT</p> <p>c) RTF communication failure 5500FT ALT</p> <p>1.2 Right hand circuit on RWY 09 and left hand circuit on RWY 27 due to training area N of AP.</p> <p>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</p> <p>2. Taxiing to and from stands</p> <p>ACFT must backtrack and use RWY-TWY intersection abeam old ATC tower only – former full length parallel taxiways and intersections permanently closed.</p> <p>3. Parking area for small aircraft (general</p> | <p>aviation)</p> <p>Nil limits.</p> <p>4. Parking area for helicopters</p> <p>Apron.</p> <p>5. Apron - Taxiing during winter conditions</p> <p>Nil limits.</p> <p>6. Taxiing - Limitations</p> <p>Nil limits.</p> <p>7. School and training flights - Technical test flights - Use of runways</p> <p>Nil training.</p> <p>8. Helicopter traffic - Limitation</p> <p>Nil limits.</p> <p>9. Removal of disabled aircraft from runways</p> <p>Nil facilities.</p> |
|---|--|

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.

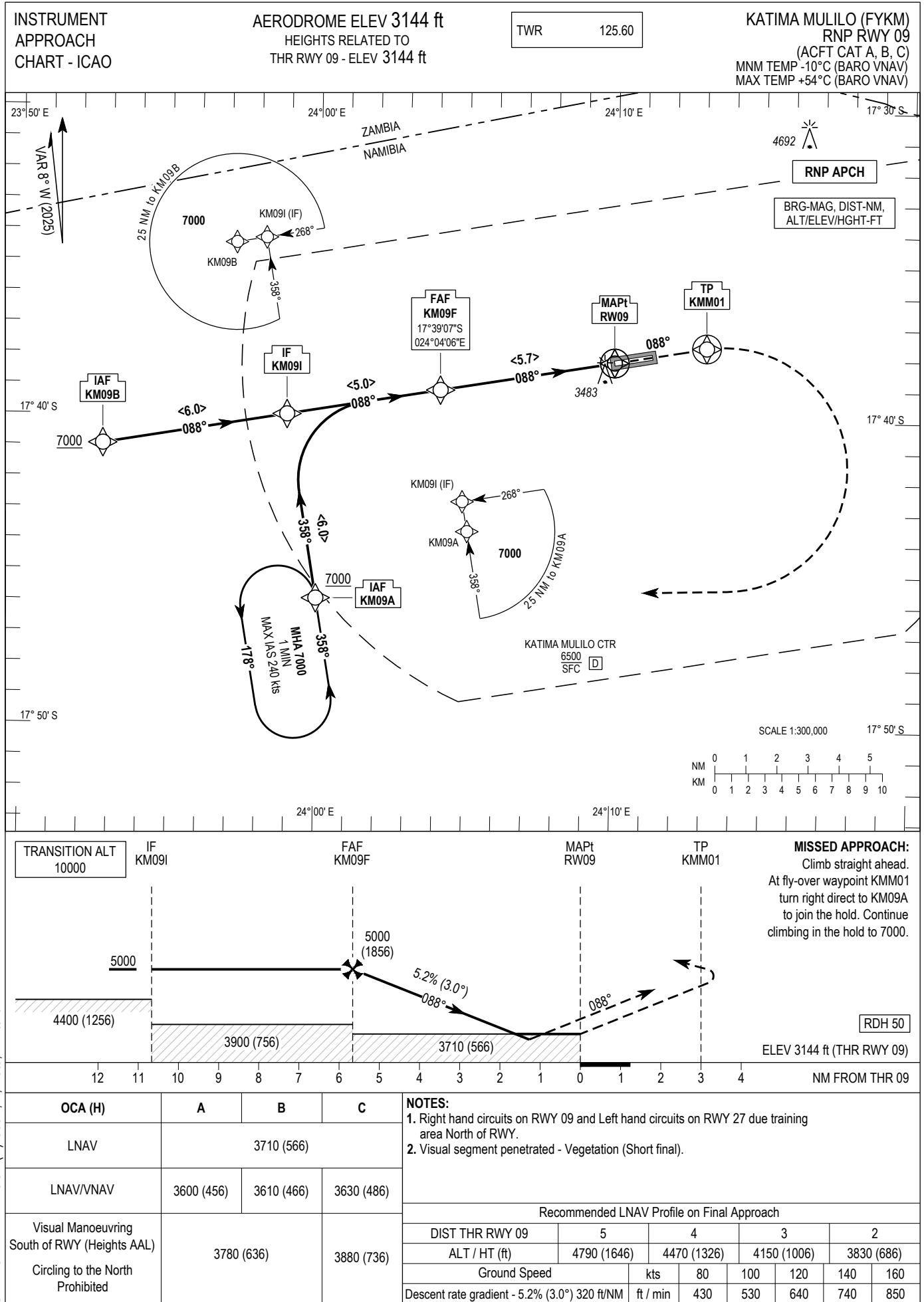
FYKM AD 2.24 CHARTS RELATED TO KATIMA MULILO AERODROME

	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

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RNP RWY09 via KM09A

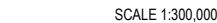
Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit	Speed Limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	KM09A	174553.0 / 0235959.5	IF	-	-	-	- / +A7000	-	-	-
RNP APCH	KM09I	173956.7 / 0235856.6	TF	Fly-By	350.4 / 358	6.0	- / +A5000	-	-	-
RNP APCH	KM09F	173906.5 / 0240406.4	TF	Fly-By	080.4 / 088	5.0	-	-	-	Turn R
RNP APCH	RW09	173809.6 / 0240957.5	TF	Fly-Over	080.4 / 088	5.7	-	-	3.00 / 50	-
RNP APCH	KMM01	173739.4 / 0241303.6	CF	Fly-Over	080.4 / 088	-	-	-	-	-
RNP APCH	KM09A	174553.0 / 0235959.5	DF	Fly-By	-	-	-	-	-	Turn R

RNP RWY09 via KM09B

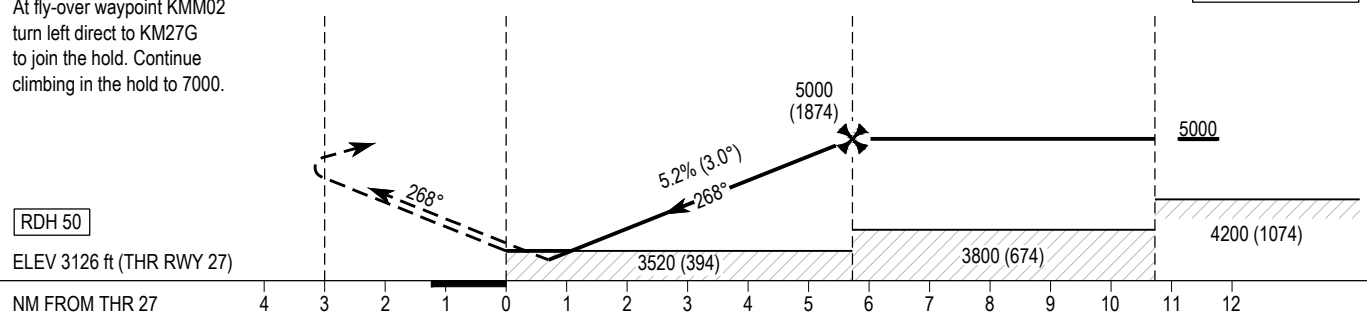
Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit	Speed Limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	KM09B	174056.8 / 0235244.8	IF	-	-	-	- / +A7000	-	-	-
RNP APCH	KM09I	173956.7 / 0235856.6	TF	Fly-By	080.4 / 088	6.0	- / +A5000	-	-	-
RNP APCH	KM09F	173906.5 / 0240406.4	TF	Fly-By	080.4 / 088	5.0	-	-	-	-
RNP APCH	THR09	173809.6 / 0240957.5	TF	Fly-Over	080.4 / 088	5.7	-	-	3.00 / 50	-
RNP APCH	KMM01	173739.4 / 0241303.6	CF	Fly-Over	080.4 / 088	-	-	-	-	-
RNP APCH	KM09A	174553.0 / 0235959.5	DF	Fly-By	-	-	-	-	-	Turn R

Hold Identification

Holding Fix	Latitude (S) / Longitude (E)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Level / Altitude (FL/ft)	Maximum Holding Level / Altitude (FL/ft)	Outbound Time (min)	Direction of Turn
KM09A	174553.0 / 0235959.5	350.4	358	-	+A7000	-	1	L



TP KMM02	MAPt RW27	FAF KM27F	IF KM27I	TRANSITION ALT 10000
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OCA (H)	A	B	C
LNAV	3520 (394)		
LNAV/VNAV	3390 (264)	3410 (284)	3430 (304)
Visual Manoeuvring South of RWY (Heights AAL) Circling to the North Prohibited	3780 (636)		3880 (736)

NOTES:

1. Right hand circuits on RWY 09 and Left hand circuits on RWY 27 due training area North of RWY.
2. Visual segment penetrated - Vegetation (Short final).

Recommended LNAV Profile on Final Approach									
DIST THR RWY 27		2		3		4		5	
ALT / HT (ft)		3810 (684)		4130 (1004)		4450 (1324)		4770 (1644)	
Ground Speed		kts		80	100	120	140	160	
Descent rate gradient - 5.2% (3.0°) 320 ft/NM		ft / min		430	530	640	740	850	

RNP RWY27 via KM27E

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit (ft)	Speed Limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	KM27E	173507.1 / 0242829.7	IF	-	-	-	- / +A7000	-	-	-
RNP APCH	KM27I	173608.1 / 0242218.2	TF	Fly-By	260.3 / 268	6.0	- / +A5000	-	-	-
RNP APCH	KM27F	173658.9 / 0241708.7	TF	Fly-By	260.3 / 268	5.0	-	-	-	-
RNP APCH	RW27	173757.1 / 0241114.2	TF	Fly-Over	260.3 / 268	5.7	-	-	3.00 / 50	-
RNP APCH	KMM02	173827.6 / 0240808.2	CF	Fly-Over	260.3 / 268	-	-	-	-	-
RNP APCH	KM27G	174204.4 / 0242321.8	DF	Fly-By	-	-	-	-	-	Turn L

RNP RWY27 via KM27G

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit (ft)	Speed Limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	KM27G	174204.4 / 0242321.8	IF	-	-	-	- / +A7000	-	-	-
RNP APCH	KM27I	173608.1 / 0242218.2	TF	Fly-By	350.3 / 358	6.0	- / +A5000	-	-	-
RNP APCH	KM27F	173658.9 / 0241708.7	TF	Fly-By	260.3 / 268	5.0	-	-	-	Turn L
RNP APCH	RW27	173757.1 / 0241114.2	TF	Fly-Over	260.3 / 268	5.7	-	-	3.00 / 50	-
RNP APCH	KMM02	173827.6 / 0240808.2	CF	Fly-Over	260.3 / 268	-	-	-	-	-
RNP APCH	KM27G	174204.4 / 0242321.8	DF	Fly-By	-	-	-	-	-	Turn L

Hold Identification

Holding Fix	Latitude / Longitude	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Level / Altitude (FL/ft)	Maximum Holding Level / Altitude (FL/ft)	Outbound Time (min)	Direction of Turn
KM27G	174204.4S / 0242321.8E	350.3	358	-	+A7000	-	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: sinvulab@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	MON - FRI: - 0600 – 1500 SAT: 0700 – 1300 SUN: CLOSED
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.	<i>MET briefing office</i>	0300 – 1800
7.	<i>ATS</i>	NIL
8.	<i>Fuelling</i>	NIL
9.	<i>Handling</i>	NIL
10.	<i>Security</i>	24 HRS
11.	<i>De-icing</i>	NIL facilities
12.	<i>Remarks</i>	Except for emergency flight, 24 hours notification is required for Sundays and after hours of operations.

FYKT AD 2.4 HANDLING SERVICES AND FACILITIES

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

FYKT AD 2.5 PASSENGER FACILITIES

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

FYKT AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	<i>AD category for fire fighting</i>	NIL
2.	<i>Rescue equipment</i>	NIL
3.	<i>Capability for removal of disabled aircraft</i>	NIL
4.	<i>Remarks</i>	The aerodrome has 150kg of dry chemical powder in place that the airport supervisor may deploy as an initial response to an aircraft accident.

FYKT AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYKT AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

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

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

<i>Slope of RWY- SWY</i>	<i>SWY Dimensions (M)</i>	<i>CWY Dimensions (M)</i>	<i>Strip Dimensions (M)</i>	<i>OFZ</i>	<i>Remarks</i>
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

<i>RWY Designator</i>	<i>TORA (M)</i>	<i>TODA (M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
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

<i>RWY Designator</i>	<i>APCH LGT type LEN INTST</i>	<i>THR LGT colour WBAR</i>	<i>VASIS (MEHT) PAPI</i>	<i>TDZ, LGT, LEN</i>	<i>RWY Centre line LGT length, spacing, colour, INTST</i>
1	2	3	4	5	6
04	Nil info	Green	PAPI Angle 3°	Nil info	Nil info
22	Nil info	Green	PAPI Angle 3°	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

<i>RWY edge LGT LEN spacing colour INTST</i>	<i>RWY End LGT colour WBAR</i>	<i>SWY LGT LEN (M) colour</i>	<i>Remarks</i>
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.	<i>ABN/IBN location, characteristics and hours of operation</i>	Flashing green and white HS
2.	<i>LDI location and LGT</i> <i>Anemometer location and LGT</i>	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.	<i>TWY edge and centre line lighting</i>	Edge: Blue Centre line: Nil
4.	<i>Secondary power supply/switch-over time</i>	Secondary power for all AD lighting No automatic switch available. In the event of main power failure, nil secondary power available.
5.	<i>Remarks</i>	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.
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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 3506	Var 17°W	ARP S26°32'19.64" E018°06'42.31"
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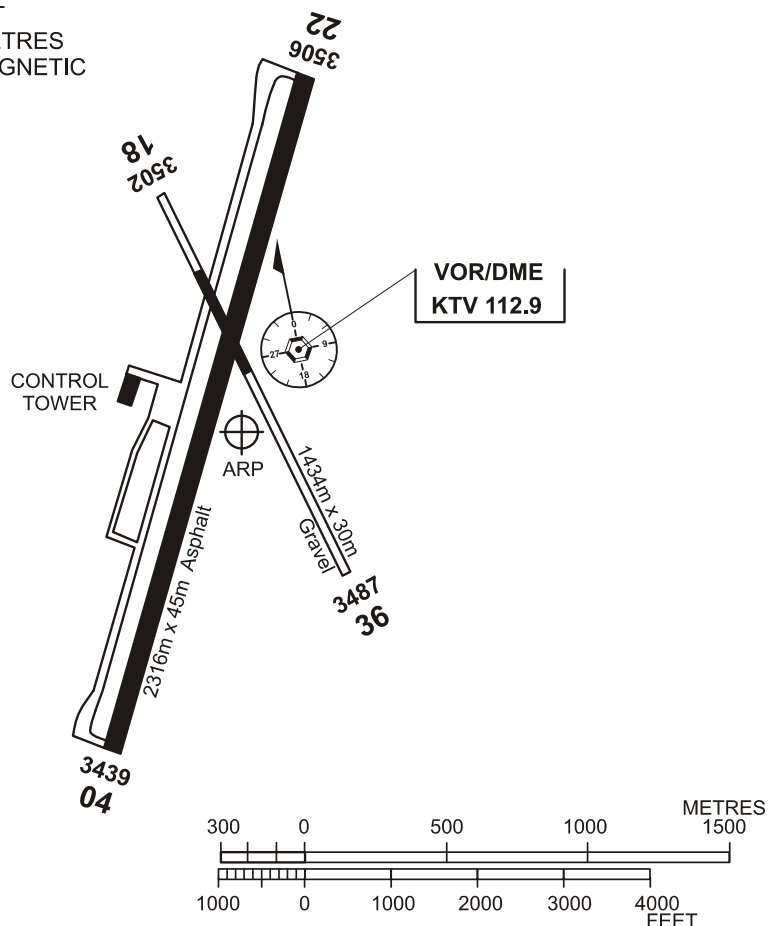
KEETMANSHOOP **AERODROME**

KEETMANSHOOP Traffic
118.3

Eff
10 NOV 16

FYKT

ALTITUDES IN FEET
DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC



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

Namibia DCA

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

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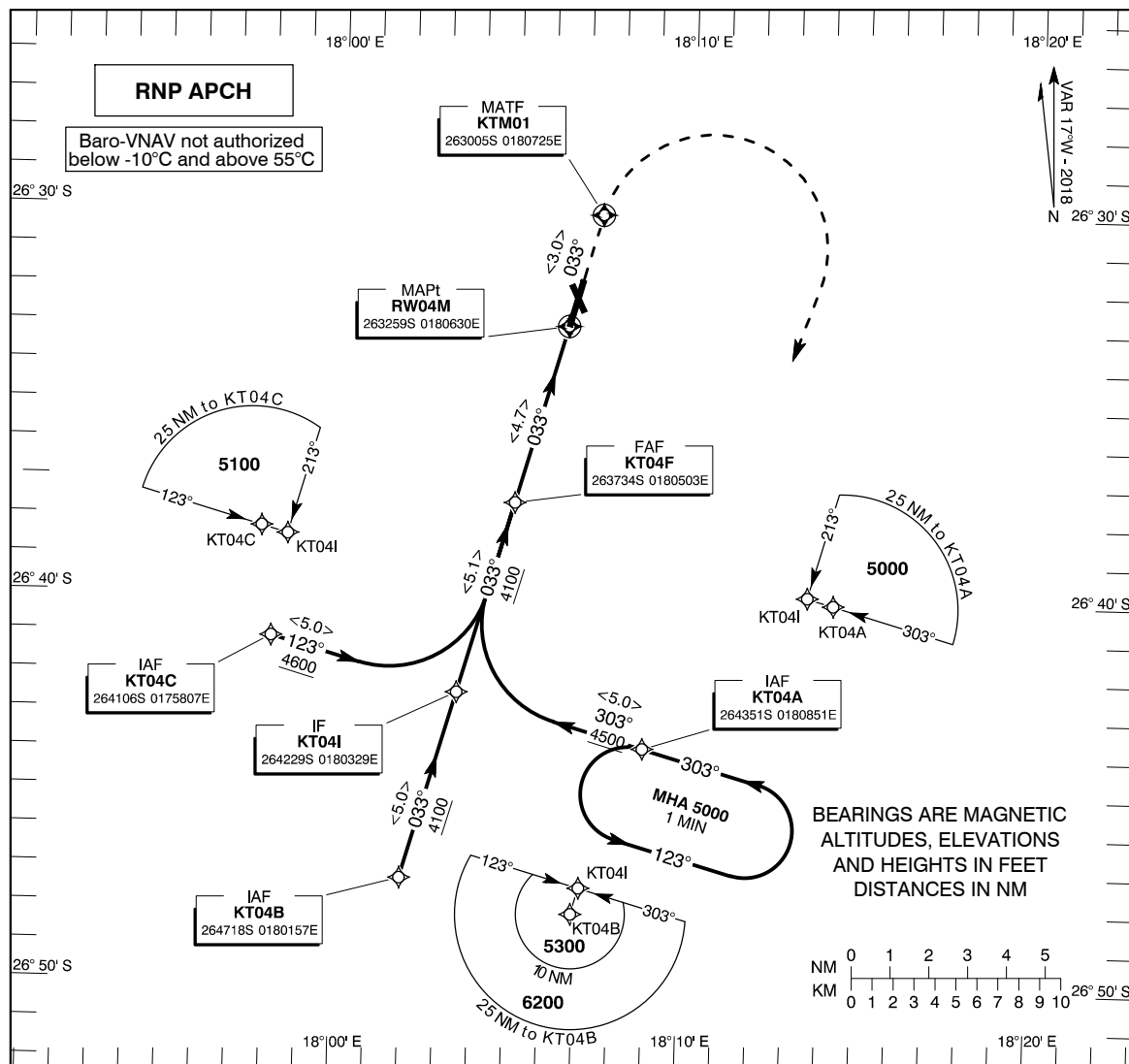
**INSTRUMENT
APPROACH
CHART - ICAO**

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

KEETMANSHOOP (FYKT)

UNM 118.30

RNP RWY 04



**TRANSITION ALT
10000**

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	NOTES:	
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

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

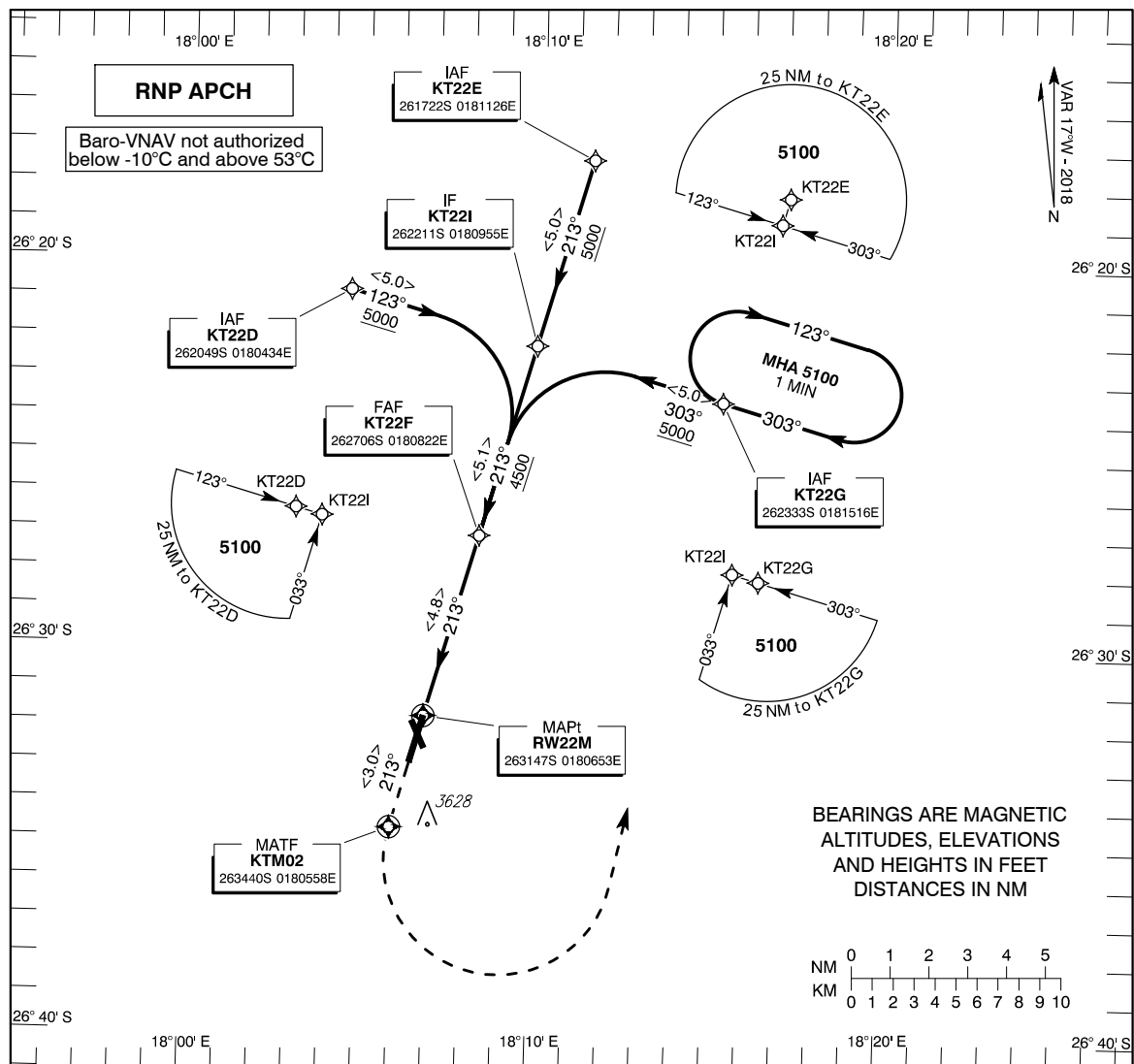
**INSTRUMENT
APPROACH
CHART - ICAO**

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

KEETMANSHOOP (FYKT)

UNM 118.30

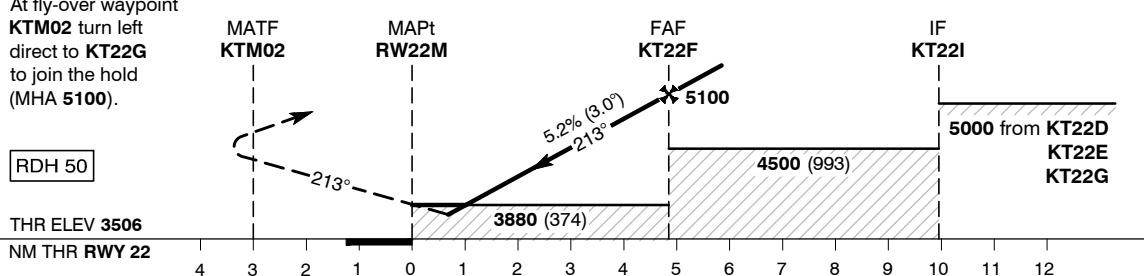
RNP RWY 22



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		NOTES:
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			

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 Tuhafeni Hishitelwa: +264 81 408 3328 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 202037 Controlling AD Tel S/B : +264 63 202035 Fax: +264 64 202037 Email: Hishitelwat@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 operator	MON-FRI: 0600-1500, SAT: 0700-1300, SUN: 0800-1200 24 HR notification for AFT HR OPS, except MEDEVAC and Mercy flight
2.	Customs and immigration	AVBL on request Customs Tel: +264 63 202259 / 202190 Immigration Tel: +264 63 203440
3.	Health and sanitation	AVBL on request Tel: +264 63 202446
4.	AIS briefing office	Nil services
5.	ATS reporting office (ARO)	Nil services
6.	MET briefing office	Nil services
7.	ATS	MON-FRI: 0600-1500, SAT: 0700-1300, SUN: 0800-1200
8.	Fuelling	MON – FRI: 0600 – 1500 SAT: 0700-1300 SUN: 0800-1200 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: Gregory Bock, Cell: +264 81 150 2462 Werner Losper Cell +264 81 735 5758 Office: +264 63 203605 SDBY cell phone: +264 81 142 9958 Controlling Office Tel: +264 64 203951 / 203984 (office hours) +264 81 407 1421 (After hours) Fax: +264 64 203984 Cell: +264 81 407 1421 Email: walvisbay@sec.com.na 2 000 Litre AVGAS tank 10 000 Litre AVGAS Torpedo 14 000 Litre Jet A1 tanks 30 000 Litre Jet A1 Container 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, 6200 Litres of water, 750 Litres foam, 135kg DCP

3.	Capability for removal of disabled aircraft	NIL
4.	Remarks	Fire & rescue service HOD: MON-FRI: 0600-1500 SAT: 0700-1300 SUN: 0800-1200

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

<i>Designations RWY NR</i>	<i>TRUE BRG</i>	<i>Dimensions of RWY (M)</i>	<i>Strength (LCN) and surface of RWY and SWY</i>	<i>THR Co- ordinates RWY end coordinates THR geoid undulation</i>	<i>THR Elevation and Highest Elevation of TDZ of Precision APP RWY</i>
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

<i>Slope of RWY-SWY</i>	<i>SWY Dimensions (M)</i>	<i>CWY Dimensions (M)</i>	<i>Strip Dimensions (M)</i>	<i>OFZ</i>	<i>Remarks</i>
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

<i>RWY Designator</i>	<i>TORA (M)</i>	<i>TODA (M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
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.	<i>Designation and lateral limits</i>	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.	<i>Vertical limits</i>	SFC–3500FT MSL
3.	<i>Airspace classification</i>	D
4.	<i>ATS unit call sign Language(s)</i>	Luderitz Tower English
5.	<i>Transition altitude</i>	10 000 FT AMSL
6.	<i>Remarks</i>	NIL

FYLZ AD 2.18 ATS COMMUNICATION FACILITIES

<i>Service designation</i>	<i>Call sign</i>	<i>Frequency</i>	<i>Hours of operation</i>	<i>Remarks</i>
1	2	3	4	5
TWR	Luderitz Tower	118.6MHz	MON-FRI: 0600-1500 SAT: 0700-1300 SUN: 0800-1200	All ACFT to BCST Luderitz TWR FREQ 118.6MHz when TWR unmanned

FYLZ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

<i>Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)</i>	<i>ID</i>	<i>Frequency</i>	<i>Hours of Operation</i>	<i>Position of transmitting antenna coordinates</i>	<i>Elevation of DME transmitting antenna</i>	<i>Remarks</i>
1	2	3	4	5	6	7
VOR/DME (17°W / 2016)	LZV	115.6 MHz CH 103X	H24	264057.20S 0151448.23E	492FT	NIL

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

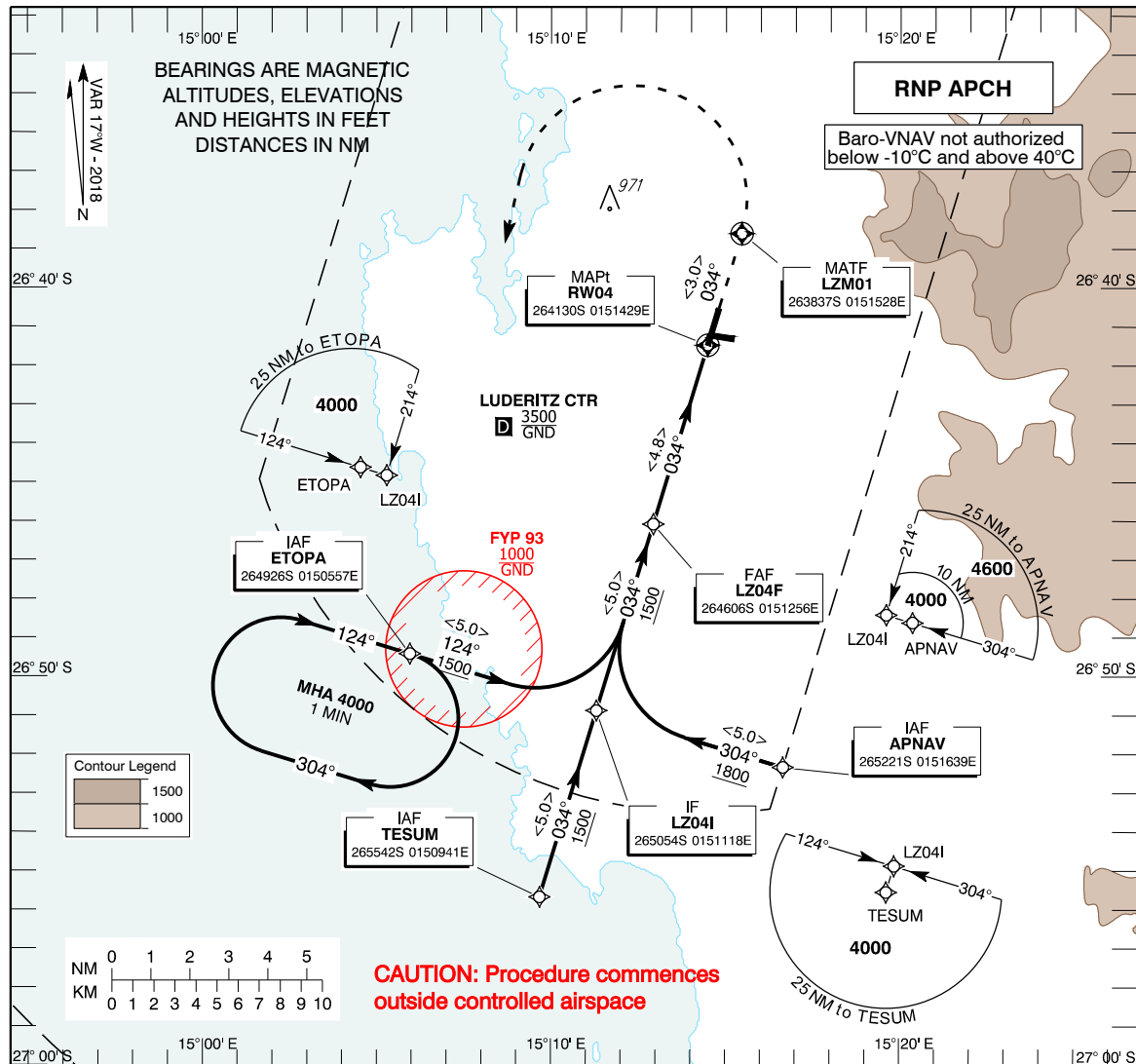
**INSTRUMENT
APPROACH
CHART - ICAO**

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 10000		MISSED APPROACH: Climb straight ahead. At fly-over waypoint LZM01 turn left direct to ETOPA to join the hold (MHA 4000).	
IF LZ04I		FAF LZ04F 2100	
1800 from APNAV 1500 from TESUM ETOPA		MAPt RW04	
1500 (1080)		MATF LZM01	
		RDH 50	
		THR ELEV 420 NM THR RWY 04	
Aircraft CAT		A	
MDA (OCH) VIS		B	
		C	
		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.	
Distance to MAPt		NM	
Altitude		FT	
Ground Speed		KTS	
Rate of Descent (3.2°)		FT/MIN	

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

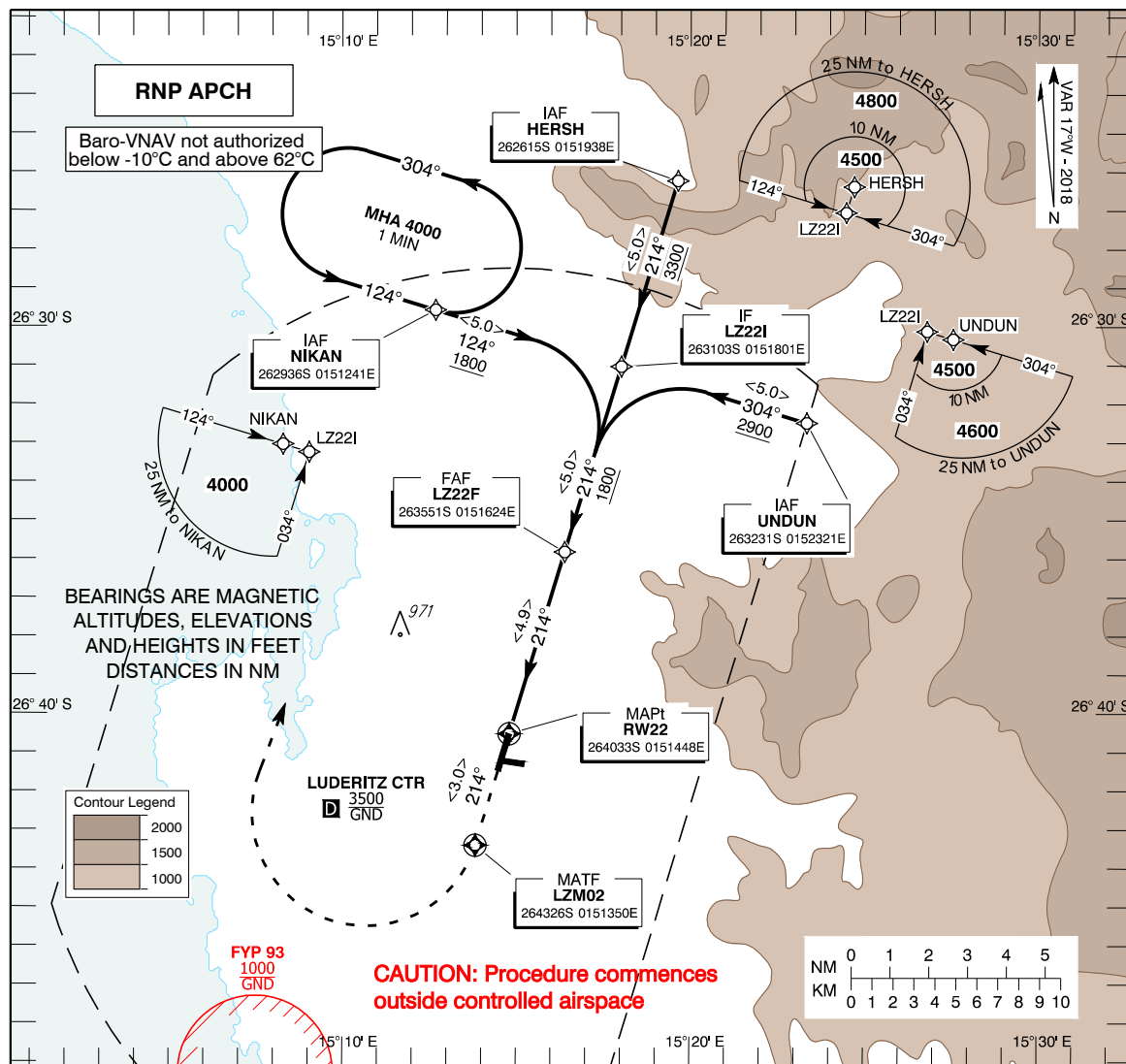
**INSTRUMENT
APPROACH
CHART - ICAO**

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

TWR 118.60
UNM 118.60

LUDERITZ (FYLZ)

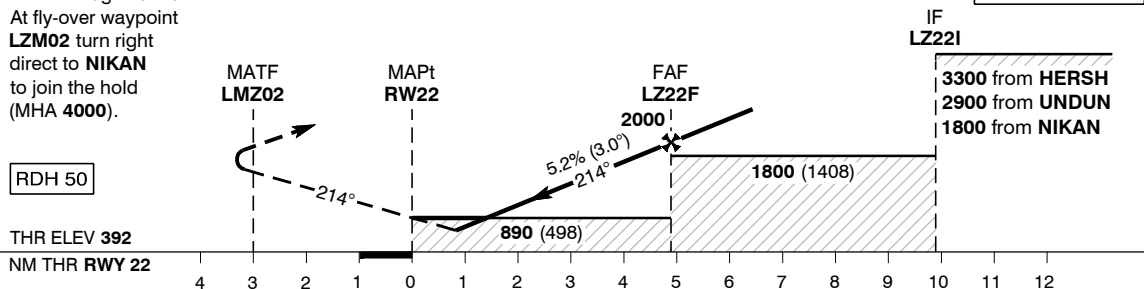
RNP RWY 22



MISSED APPROACH:

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

**TRANSITION ALT
10000**



Aircraft CAT		A		B		C		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.
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	

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

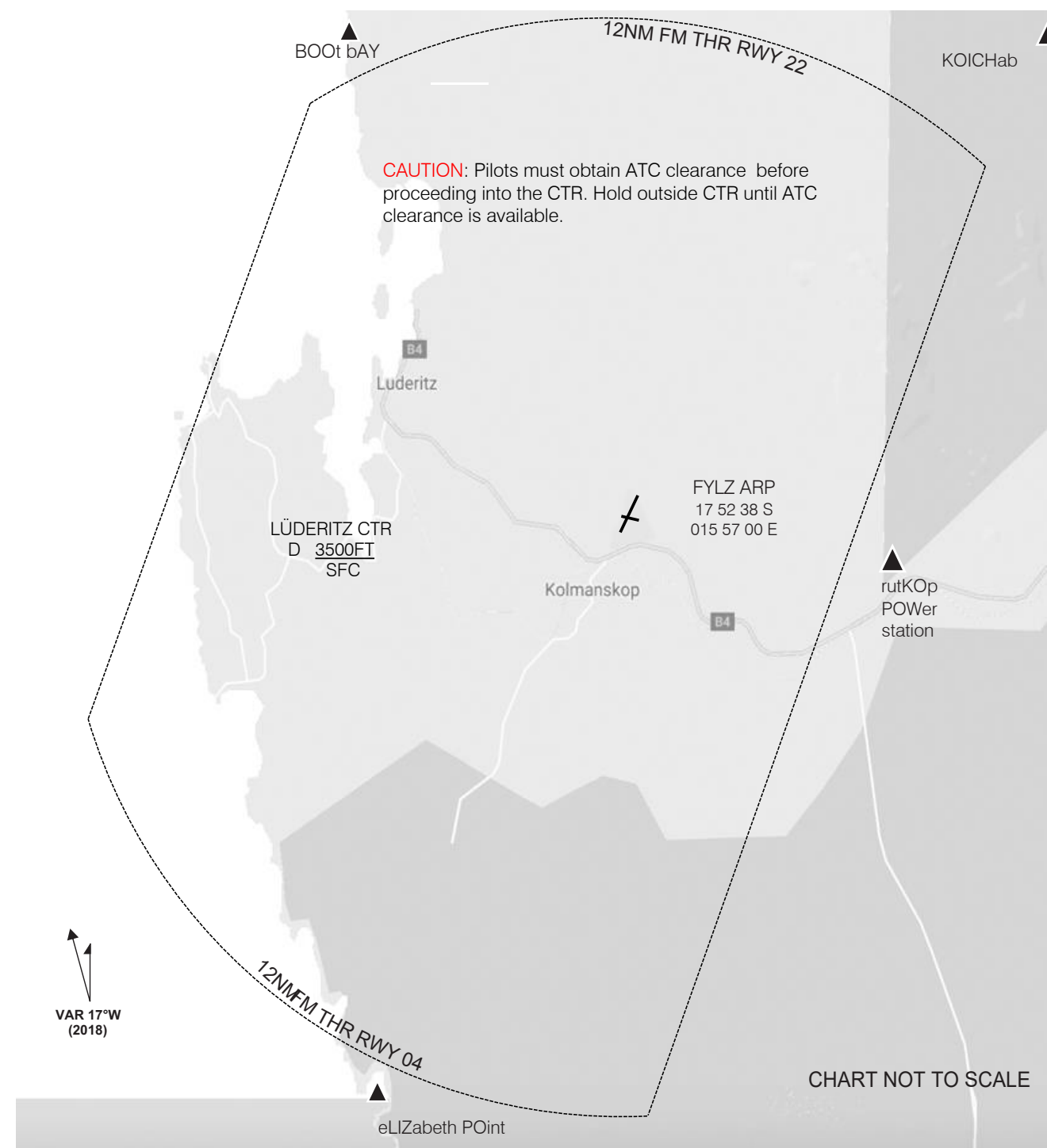
VISUAL
APPROACH
CHART - ICAO

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

FYML AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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

FYML AD 2.10 AERODROME OBSTACLES

In Approach/TKOF areas			In circling areas and at AP			Remarks
1			2			3
<i>RWY/Area affected</i>	<i>Obstacle Type Elevation Markings/ LGT</i>	<i>Coordinates</i>	<i>Obstacle type Elevation Markings/ LGT</i>	<i>Coordinates</i>		
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.	<i>Associated Met office</i>	Nil facilities
2.	<i>Hours of service MET office outside hours</i>	Nil facilities
3.	<i>Office responsible for TAF preparation Periods of validity</i>	Windhoek
4.	<i>Type of landing forecast Interval of issuance</i>	Nil facilities
5.	<i>Briefing/consultation provided</i>	Nil facilities
6.	<i>Flight documentation Language(s) used</i>	Nil facilities English
7.	<i>Charts and other information available for briefing or consultation</i>	Nil facilities
8.	<i>Supplementary equipment available for providing information</i>	Nil facilities
9.	<i>ATS units provided with information</i>	Nil facilities
10.	<i>Additional information (limitation of service, etc.)</i>	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

<i>Designations RWY NR</i>	<i>TRUE & MAG BRG</i>	<i>Dimensions of RWY (M)</i>	<i>Strength (LCN) and surface of RWY and SWY</i>	<i>THR Coordinates</i>	<i>THR Elevation and Highest Elevation of TDZ of Precision APP RWY</i>
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

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

FYML AD 2.13 DECLARED DISTANCES

<i>RWY Designator</i>	<i>TORA (M)</i>	<i>TODA (M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
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.	<i>Designation and lateral limits</i>	Nil ATS airspace
2.	<i>Vertical limits</i>	Nil ATS airspace
3.	<i>Airspace classification</i>	Nil ATS airspace
4.	<i>ATS unit call sign Language(s)</i>	Nil ATS airspace English
5.	<i>Transition altitude</i>	Nil ATS airspace
6.	<i>Remarks</i>	Nil

FYML AD 2.18 ATS COMMUNICATION FACILITIES

<i>Service designation</i>	<i>Call sign</i>	<i>Frequency</i>	<i>Hours of operation</i>	<i>Remarks</i>
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

- | | |
|---|---|
| <p>1. Aerodrome regulations</p> <p>Aircraft must adhere to RWY's and TWY's and park in the parking area.</p> <p>2. Taxiing to and from stands</p> <p>Nil procedures.</p> <p>3. Parking area for small aircraft (general aviation)</p> <p>Nil procedures.</p> <p>4. Parking area for helicopters</p> <p>Nil procedures.</p> <p>5. Apron - Taxiing during winter conditions</p> <p>Nil limits.</p> | <p>6. Taxiing - Limitations</p> <p>Nil limits.</p> <p>7. School and training flights - Technical test flights - Use of runways</p> <p>Nil training.</p> <p>8. Helicopter traffic - Limitation</p> <p>Nil limits.</p> <p>9. Removal of disabled aircraft from runways</p> <p>Nil procedures.</p> |
|---|---|

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

FYMO AD 2.5 PASSENGER FACILITIES

1.	<i>Hotels</i>	Yes
2.	<i>Restaurants</i>	Yes
3.	<i>Transportation</i>	Yes
4.	<i>Medical facilities</i>	Clinic
5.	<i>Bank and post office</i>	Nil facilities
6.	<i>Tourist office</i>	Yes
7.	<i>Remarks</i>	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.	<i>Apron surface and strength</i>	Surface: Interlocking Strength: LCN 8
2.	<i>Taxiway width, surface and strength</i>	Width: Nil info Surface: Gravel Strength: LCN 8
3.	<i>ACL location and elevation</i>	Nil info
4.	<i>VOR/INS checkpoints</i>	Nil facilities
5.	<i>Remarks</i>	Nil

FYMO AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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

- aviation)
1. **Aerodrome regulations**

30 M x 30 M

 - 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**
 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 ARP site not established with the survey
2.	Direction and distance from (city)	N, 2 NM from Ondangwa
3.	Elevation/reference temperature	3 599 FT / 38 ° C
4.	Geoid undulation at AD Elevation PSN	21 M
5.	MAG VAR/annual change	7° W (2023)/ 0.15° decreasing
6.	Name of AD operator, address, telephone, telefax numbers, email address, AFS address and, if available, website address.	Namibia Airports Company Limited 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	MON & WED: 0530 – 1500 TUE, THU, FRI & SUN: 0530 – 1600; SAT: CLSD
2.	Customs and immigration	MON-FRI: 0600 - 1500
3.	Health and sanitation	HS
4.	AIS briefing office	NIL
5.	ATS reporting office (ARO)	NIL
6.	MET briefing office	SUN-FRI: 0600 – 1500 SAT: CLSD
7.	ATS	As AD Administration
8.	Fuelling	As AD Administration
9.	Handling	NIL
10.	Security	H24
11.	De-icing	NIL
12.	Remarks	Customs Contact Details Service Available on request during SAT & SUN at the following contact details: Tel: +264 65 22 9600 Mobile: +264 85 127 1999 / +264 81 208 5616 Immigration contact details: Tel: +264 65 241669 Cell: +264 81 2501397 / + 264 81 3067996 AIS contact details: Tel: +264 61 702080/1/3 Fax: +264 61 702088 Note: Briefing office only available in Windhoek Meteorological Services contact details: Tel: +264 65 240922 Air Traffic Services contact details: ATC Tel: +264 65 703190/1 ATC Fax: +264 65 703199 AFS: FYOAZTZX Puma (Refuelling) Public holidays, after Hours and Weekends: On Request contact details Mobile: +264 81 129 3014/+264 81 259 4707 Tel: +264 65 241465 Fax: +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	Jet A1 Bowser/5 000 litres Jet A1 Tanks/56 000 litres AVGAS Tank/23 000 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 81 562 3112 Bidvest Car Rental: +264 81 124 8262 Europe Car Hire: +264 65 240 261/+264 81 142 4091 Hertz Rent a Car: +264 81 159 6332 Profile Car Hire: +264 81 289 1849/+264 81 149 9773

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 remove it as soon as possible. If a disabled aircraft is not removed within the timelines set by the AD operator, the aircraft will be removed by the AD operator at the expense of the owner or user.
4.	Remarks	NIL

FYOA AD 2.7 SEASONAL AVAILABILITY - CLEARING

1.	<i>Types of clearing equipment</i>	NIL
2.	<i>Clearance priorities</i>	NIL
3.	<i>Remarks</i>	NIL

FYOA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1.	<i>Apron surface and strength</i>	Apron A: Asphalt Strength: 12/F/D/Y/U Apron B Concrete Strength: NIL
2.	<i>Taxiway width, surface and strength</i>	TWY: Bravo and Charlie Width: 15 M Surface: Asphalt Strength: 12/F/D/Y/U
3.	<i>ACL location and elevation</i>	NIL
4.	<i>VOR checkpoints</i>	175243S 0155653E
5.	<i>INS checkpoints</i>	NIL
6.	<i>Remarks</i>	NIL

FYOA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	<i>Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands</i>	NIL
2.	<i>RWY and TWY markings and LGT</i>	RWY: Designation, THR, TDZ, Centreline, aiming points, RWY End, Turn pad marking, Displacement markings RWY LGT: Turn pad lights, wing bar lights, edge lights and runway end lights TWY: Centre line, holding positions at all TWY intersections TWY LGT: NIL
3.	<i>Stop bars</i>	NIL
4.	<i>Other runway protection measures</i>	NIL
5.	<i>Remarks</i>	NIL

FYOA AD 2.10 AERODROME OBSTACLES

<i>In Area 2</i>					
OBST ID/ Designation	OBST Type	OBST position	ELEV / HGT (FT/M)	Markings/Type, Colour, Lighting (LGT)	Remarks
A	B	C	D	E	F
OLD ATC TOWER	TOWER	175256.8S0155647.9E	1109m	LGT	NIL
NAVI AIDS	AIRPORT ROTATING BEACON	175256.8S 0155647.9E	1107m	LGT	Nil
FIRE STATION	FIRE STATION	175258.6S0155647.0E	1104m	Nil	Nil
MET STATION	EQUIPMENT	175256.7S0155648.9E	1106m	Nil	Nil
VOR MONITOR	Nav Aid	175242.9S0155652.9E	1102m	Marked/LGT	Nil
CVOR	DME RED LIGHT	175243.3S0155653.0E	1105m	LGT	Nil
WINDSOCK 08(Apron)	WINDSOCK	175302.3S0155632.9E	1104m	Marked/LGT	Nil
WINDSOCK 26	WINDSOCK	175237.0S0155712.5E	1103m	Marked/LGT	Nil
POWER COM TOWER	TOWER	175435.5S0155806.0E	1155m	Marked/LGT	Nil
TELECOM TOWER	TOWER	175424.6S0155813.6E	1152m	Marked/LGT	Nil

In Area 3					
OBST ID/ Designation	OBST Type	OBST position	ELEV / HGT	Markings/Type, Colour	Remarks
A	B	C	D	E	F
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: 0530 - 1500 SAT: NIL service SUN: 0530 – 1500
4.	Type of landing forecast Interval of issuance	HKIA Short TAF – 3HR Long TAF – 6 HR
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

<i>Designations RWY NR</i>	<i>TRUE BRG</i>	<i>Dimensions of RWY (M)</i>	<i>Strength (PCN) and surface of RWY and SWY</i>	<i>THR coordinates RWY end coordinates THR geoid undulation</i>	<i>THR Elevation and Highest Elevation of TDZ of Precision APPRWY</i>
1	2	3	4	5	6
08	065.32' 51"	2824 x 45	48/F/B/X/T Asphalt	175259.75S 0155628.40E NIL 21 M	3599 FT
26	245.32' 51"	2824 x 45	48/F/B/X/T Asphalt	175221.73S 0155755.73E 175301.93S 0155623.37E 21 M	3599 FT

<i>Designations RWY NR</i>	<i>Slope of RWY-SWY</i>	<i>SWY Dimensions (M)</i>	<i>CWY Dimensions (M)</i>	<i>Strip Dimensions (M)</i>	<i>Dimensions of runway end safety areas(M)</i>
1	7	8	9	10	11
08	.005%	NIL	NIL	2944 x 150	240 x 90
26	.005%	NIL	NIL	2944 x 150	240 x 90
<i>Designations RWY NR</i>	<i>Location and description of arresting system</i>	<i>OFZ</i>	<i>Remarks</i>		
1	12	13	14		
08	NIL	NIL	NIL		
26	NIL	NIL	NIL		

FYOA AD 2.13 DECLARED DISTANCES

<i>RWY Designator</i>	<i>TORA (M)</i>	<i>TODA (M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
1	2	3	4	5	6
08	2986	2986	2986	2824	PERM DTHR by 162M
26	2986	2986	2986	2986	NIL

FYOA AD 2.14 APPROACH AND RUNWAY LIGHTING

<i>RWY Designator</i>	<i>APCH LT type LEN INTST</i>	<i>THR LGT colour WBAR</i>	<i>VASIS (MEHT)PAPI</i>	<i>TDZ, LGT, LEN</i>	<i>RWY CL LGT LEN, spacing, colour INTST</i>
1	2	3	4	5	6
08	NIL	Bi-directional high intensity - Green	PAPI A 2° , 30 min PAPI B 2° , 50 min PAPI C 3° , 10 min PAPI D 3° , 30 min	NIL	NIL
26	NIL	Bi-directional high intensity - Green	PAPI A 2° , 30 min PAPI B 2° , 50 min PAPI C 3° , 10 min PAPI D 3° , 30 min	NIL	NIL

<i>RWY Designator</i>	<i>RWY edge LGT LEN spacing colour INTST</i>	<i>RWY End LGT colour WBAR</i>	<i>SWY LGT LEN (M) colour</i>	<i>Remarks</i>
1	7	8	9	10
08	Bi-directional high INTST 60M, white/LIH	Bi-directional high intensity - Green	NIL	NIL
26	Bi-directional high INTST 60M, white/LIH	Bi-directional high intensity - Green	NIL	NIL

FYOA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	<i>ABN/IBN location, characteristics and hours of operation</i>	ABN: At TWR, ABN flashes green and white, HS
2.	<i>LDI location and LGT anemometer location and LGT</i>	NIL
3.	<i>TWY edge lights, centre line lights and stop bars (if any)</i>	NIL
4.	<i>Secondary power supply/switch-over time</i>	Generator / 14 seconds
5.	<i>Remarks</i>	NIL

FYOA AD 2.16 HELICOPTER LANDING AREA

NIL information AVBL

FYOA AD 2.17 ATS AIRSPACE

1.	<i>Designation and lateral limits</i>	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.	<i>Vertical limits</i>	SFC to 5500 FT MSL
3.	<i>Airspace classification</i>	D
4.	<i>ATS unit call sign Language(s)</i>	Ondangwa Tower English
5.	<i>Transition altitude</i>	10 000 FT MSL
6.	<i>Remarks</i>	AD Control

FYOA AD 2.18 ATS COMMUNICATION FACILITIES

<i>Service designation</i>	<i>Call sign</i>	<i>Frequency</i>	<i>Hours of operation</i>	<i>Remarks</i>
1	2	3	4	5
Tower	Ondangwa Tower	125.6 MHz	HS	Tower HOD, refer to AD 2.3

FYOA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

<i>Type of aid, CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)</i>	<i>ID</i>	<i>Frequency</i>	<i>Hours of Operation</i>	<i>Position of transmitting antenna co-ordinates</i>	<i>Elevation of DME transmitting antenna</i>	<i>Remarks</i>
1	2	3	4	5	6	7
VOR/DME (8°W/2019)	OAV	116,3 MHz CH110X	H24	175243S 0155653E	3627 FT	NIL
RNP APCH	N/A	1575.42MHz	H24	NIL	NIL	Transmitting antennas are satellite based

FYOA AD 2.20 LOCAL AERODROME 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.

No smoking is allowed on the airside.

No photography is allowed to be taken on the airside unless authorised by the Airport Manager.

2. Standard Taxi Route

- Pilots that are taxiing for departure on runway 08, may exit the apron via intersection Bravo to enter the runway to proceed west toward threshold 08.
- Pilots that are taxiing for departure on runway 26, may exit the apron via intersection Charlie to enter the runway to proceed east toward threshold 26.
- Pilots that have landed on runway 26 may proceed to intersection Bravo or Charlie to enter the apron.
- Pilots that have landed on runway 08 can exit the runway using intersections Bravo or Charlie to enter the apron.

3. Limitations on the use of the aerodrome

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

4. Unserviceable Areas on the Apron due to surface deterioration

FYOA has portions of the Apron that is unserviceable and is demarcated with reflective cones.

5. Parking Area for small aircraft (General Aviation)

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

6. Parking Area for Helicopters

A designated parking area for Helicopters has not been established. All pilots will park the helicopter on the apron as directed by ATC.

7. Apron – Taxing during winter conditions

Not applicable

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

Not applicable

9. Helicopter traffic — limitation

NIL

10. Removal of disabled aircraft from the runway

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.

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

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
Data Code RNP RWY 08	AD 2-20
Instrument Approach Chart – ICAO RNP RWY 26	AD 2-21
Data Code RNP RWY 26	AD 2-22

Aerodrome Chart – ICAO - RESERVED

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Instrument Approach Chart – ICAO - RESERVED

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Instrument Approach Chart – ICAO - RESERVED

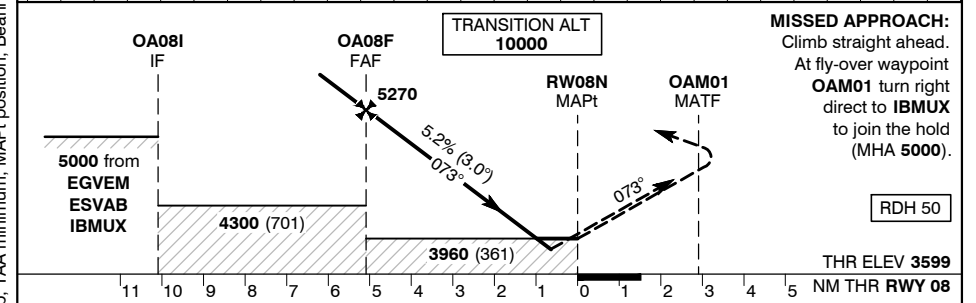
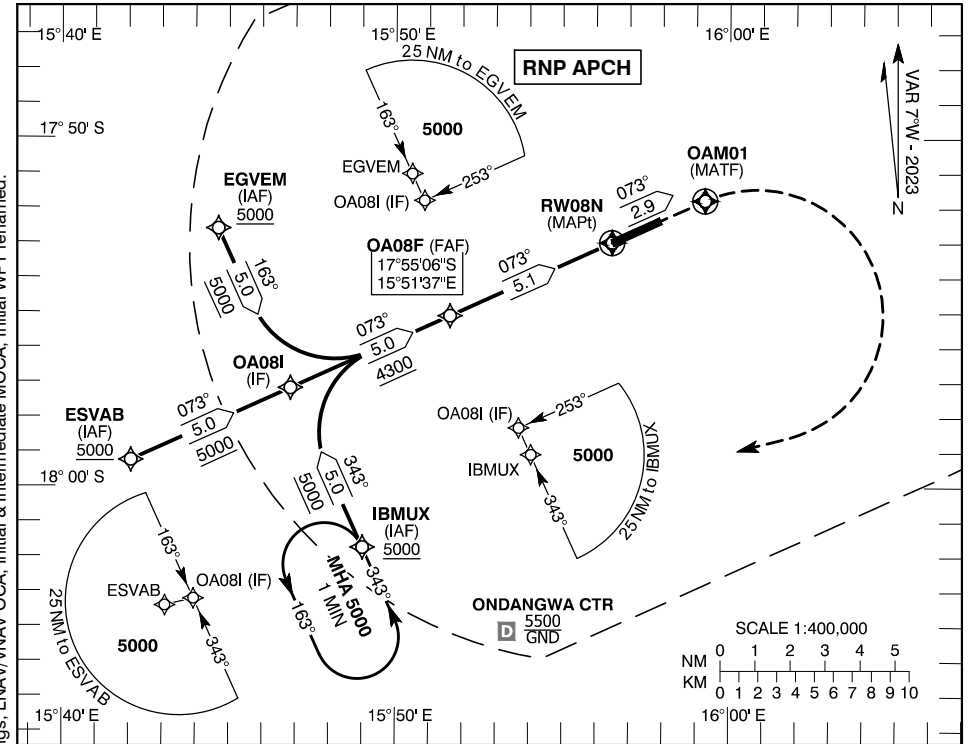
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**INSTRUMENT
APPROACH
CHART - ICAO**

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

APP 125.60
TWR 125.60

**Ondangwa (FYOA)
RNP RWY 08**
MNM TEMP -5°C
MAX TEMP +53°C



CAUTION: Procedure commences outside controlled airspace.

NOTE: 1. Track shortening inside IAF not permitted.

Aircraft CAT		A	B	C	D	
OCA (H)	LNAV	3960 (361)				
	LNAV/VNAV	3850 (251)	3850 (251)	3860 (261)	3870 (271)	
Distance to THR	NM	5	4	3	2	1
Altitude	FT	5240 (1641)	4920 (1321)	4605 (1006)	4285 (686)	3970 (371)
Ground Speed	KTS	80	100	120	140	160
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850

Bearings are magnetic. Altitudes, Elevation and Heights in feet. Distances in NM.

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track / Magnetic track	Distance [nm]	Turn direction	Upper limit / Lower limit	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	IBMUX	18°01'44.9"S / 015°49'00.5"E	-	-	-	-	- / 5000	-	-	-
2	RNP APCH	TF	OA08I	17°57'10.6"S / 015°46'50.5"E	-	335.6 / 343	5.0	-	-	-	-	-
3	RNP APCH	TF	OA08F	17°55'06.3"S / 015°51'37.1"E	N	065.6 / 073	5.0	R	-	-	-	-
4	RNP APCH	TF	RW08N	17°52'59.7"S / 015°56'28.4"E	Y	065.6 / 073	5.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OAM01	17°51'47.2"S / 015°59'15.4"E	Y	065.6 / 073	-	-	-	-	-	-
6	RNP APCH	DF	IBMUX	18°01'44.9"S / 015°49'00.5"E	N	-	-	R	-	-	-	-

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track / Magnetic track	Distance [nm]	Turn direction	Upper limit / Lower limit	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	ESVAB	17°59'15.0"S / 015°42'03.8"E	-	-	-	-	- / 5000	-	-	-
2	RNP APCH	TF	OA08I	17°57'10.6"S / 015°46'50.5"E	-	065.6 / 073	5.0	-	-	-	-	-
3	RNP APCH	TF	OA08F	17°55'06.3"S / 015°51'37.1"E	N	065.6 / 073	5.0	-	-	-	-	-
4	RNP APCH	TF	RW08N	17°52'59.7"S / 015°56'28.4"E	Y	065.6 / 073	5.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OAM01	17°51'47.2"S / 015°59'15.4"E	Y	065.6 / 073	-	-	-	-	-	-
6	RNP APCH	DF	IBMUX	18°01'44.9"S / 015°49'00.5"E	N	-	-	R	-	-	-	-

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track / Magnetic track	Distance [nm]	Turn direction	Upper limit / Lower limit	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	EGVEM	17°52'36.3"S / 015°44'40.5"E	-	-	-	-	- / 5000	-	-	-
2	RNP APCH	TF	OA08I	17°57'10.6"S / 015°46'50.5"E	-	155.6 / 163	5.0	-	-	-	-	-
3	RNP APCH	TF	OA08F	17°55'06.3"S / 015°51'37.1"E	N	065.6 / 073	5.0	L	-	-	-	-
4	RNP APCH	TF	RW08N	17°52'59.7"S / 015°56'28.4"E	Y	065.6 / 073	5.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OAM01	17°51'47.2"S / 015°59'15.4"E	Y	065.6 / 073	-	-	-	-	-	-
6	RNP APCH	DF	IBMUX	18°01'44.9"S / 015°49'00.5"E	N	-	-	R	-	-	-	-

Hold Identification

Holding Fix	Latitude (S) / Longitude (E)	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
IBMUX	18°01'44.9"S / 015°49'00.5"E	335.6	343	250	5000	-	1	L

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track / Magnetic track	Distance [nm]	Turn direction	Upper limit / Lower limit	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	UNBIT	17°43'38.5"S / 016°05'18.5"E	-	-	-	-	- / 5000	-	-	-
2	RNP APCH	TF	OA26I	17°48'12.8"S / 016°07'28.3"E	-	155.6 / 163	5.0	-	-	-	-	-
3	RNP APCH	TF	OA26F	17°50'17.3"S / 016°02'41.9"E	N	245.6 / 253	5.0	R	-	-	-	-
4	RNP APCH	TF	RW26N	17°52'21.7"S / 015°57'55.7"E	Y	245.6 / 253	5.0	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OAM03	17°53'36.5"S / 015°55'03.7"E	Y	245.6 / 253	-	-	-	-	-	-
6	RNP APCH	DF	IMTES	17°52'47.1"S / 016°09'38.2"E	N	-	-	L	-	-	-	-

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track / Magnetic track	Distance [nm]	Turn direction	Upper limit / Lower limit	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	IBLAS	17°46'08.3"S / 016°12'14.6"E	-	-	-	-	- / 5000	-	-	-
2	RNP APCH	TF	OA26I	17°48'12.8"S / 016°07'28.3"E	-	245.6 / 253	5.0	-	-	-	-	-
3	RNP APCH	TF	OA26F	17°50'17.3"S / 016°02'41.9"E	N	245.6 / 253	5.0	-	-	-	-	-
4	RNP APCH	TF	RW26N	17°52'21.7"S / 015°57'55.7"E	Y	245.6 / 253	5.0	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OAM03	17°53'36.5"S / 015°55'03.7"E	Y	245.6 / 253	-	-	-	-	-	-
6	RNP APCH	DF	IMTES	17°52'47.1"S / 016°09'38.2"E	N	-	-	L	-	-	-	-

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track / Magnetic track	Distance [nm]	Turn direction	Upper limit / Lower limit	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	IMTES	17°52'47.1"S / 016°09'38.2"E	-	-	-	-	- / 5000	-	-	-
2	RNP APCH	TF	OA26I	17°48'12.8"S / 016°07'28.3"E	-	335.6 / 343	5.0	-	-	-	-	-
3	RNP APCH	TF	OA26F	17°50'17.3"S / 016°02'41.9"E	N	245.6 / 253	5.0	L	-	-	-	-
4	RNP APCH	TF	RW26N	17°52'21.7"S / 015°57'55.7"E	Y	245.6 / 253	5.0	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OAM03	17°53'36.5"S / 015°55'03.7"E	Y	245.6 / 253	-	-	-	-	-	-
6	RNP APCH	DF	IMTES	17°52'47.1"S / 016°09'38.2"E	N	-	-	L	-	-	-	-

Hold Identification

Holding Fix	Latitude (S) / Longitude (E)	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
IMTES	17°52'47.1"S / 016°09'38.2"E	335.6	343	250	5000	-	1	R

GAD 2. AERODROMES

FYOG AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYOG - Oranjemund International Airport

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/ 25°C
4	Geoid undulation at AD ELEV PSN	32M
5	MAG VAR/annual change	19°W (2023) /2°W
6	AD administration, address, telephone, telefax, telex, AFS	De Beers Marine Namibia (pty) Ltd. P.O. Box 23016 Windhoek Airport Manager Golden Siteketa Contact Details: APM Cell: +264 81 1433736 E-mail: golden.siteketa@debmarine.com Telex: NIL AFS: NIL www.debmarine.com
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Public aerodrome, designated port of entry/exit.

FYOG AD 2.3 OPERATIONAL HOURS

1	AD Operator	MON-FRI: 0500-1430. SAT, SUN and public HOL: Closed
2	Customs and Immigration	O/R 2 HRS in advance during AD hours
3	Health and sanitation	As AD administration
4	Aeronautical Information Service (AIS) briefing office	As AD administration
5	ATS reporting office (ARO)	As AD administration
6	MET briefing office	As AD administration
7	ATS	See AD 2.18
8	Fuelling	As AD administration
9	Handling	As AD administration
10	Security	24 HRS
11	De-icing	NIL
12	Remarks	24HR notification for after-hours operations and 2HR notification for MEDEVAC and mercy flight.

FYOG AD 2.4 HANDLING SERVICES AND FACILITIES

1	<i>Cargo-handling facilities</i>	NIL
2	<i>Fuel/oil types</i>	Jet A1
3	<i>Fuelling facilities/capacity</i>	Refuel Cabinet, 80 000 litres, 50 litres/sec
4	<i>De-icing facilities</i>	NIL
5	<i>Hangar space for visiting aircraft</i>	NIL
6	<i>Repair facilities for visiting aircraft</i>	NIL
7	<i>Remarks</i>	NIL

FYOG AD 2.5 PASSENGER FACILITIES

1	<i>Hotels</i>	In town
2	<i>Restaurants</i>	At AD and in town
3	<i>Transportation</i>	Car hire in town
4	<i>Medical facilities</i>	Medical aid at AD. Hospital in town
5	<i>Bank and post office</i>	In town
6	<i>Tourist office</i>	OMDIS, +264 63 234344
7	<i>Remarks</i>	NIL

FYOG AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	<i>AD category for fire fighting</i>	CAT 5
2	<i>Rescue equipment</i>	6500 litres of water. Foam: AFFF 3% all-purpose foam, 1800 litres/NM @ 11Bar, range 25M. Powder: 250kg DCP, 100kg/NM range 9M. Additional 8000 litres water bowser and 50 000 litres of water reservoir.
3	<i>Capability for removal of disabled aircraft</i>	2 x Fetter Bags and 2 Hydraulic Jacks
4	<i>Remarks</i>	See AD 2.3, Part 12, and AD 2.20, Part 1, Sub-par 1.6 and for afterhours request

FYOG AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	<i>Types of clearing equipment</i>	NIL
2	<i>Clearance priorities</i>	NIL
3	<i>Remarks</i>	NIL

FYOG AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron designation, surface, and strength	Apron Red Zone, Asphalt, PCN 15/F/B/W/T Apron General, Concrete, PCN 15/R/B/W/T
2	Taxiway designation, width, surface and strength	TWY A, 15 M, Asphalt, PCN 11/F/B/W/T TWY B, 15 M, Asphalt, PCN 11/F/B/W/T TWY C, 15 M, Asphalt, PCN 11/F/B/W/T TWY D, 18 M, Asphalt, PCN 11/F/B/W/T
3	Altimeter checkpoint location and elevation	Location: At Apron Elevation: 3.437M
4	VHF omnidirectional radio range (VOR) checkpoints	NIL
5	INS checkpoints	NIL
6	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 guidelines and visual docking/ parking guidance system of aircraft stands	NIL Parking of ACFT as per ARFF Marshaller
2	RWY and TWY markings and LGT	RWY: Designation, THR, TDZ, Centreline, edge runway end as appropriately marked and RWY edge LGT TWY: Centreline, holding positions at all TWY/RWY intersections, marked, and TWY edge LGT
3	Stop bars	NIL
4	Other runway protection measures	NIL
5	Remarks	NIL

FYOG AD 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT (FT)	Markings / Type, Colour (LGT)	Remarks
a	b	c	d	e	f
Telcom Tower	Mast	283327.67S 0162516.82E	262	Marked and LGTD	On Southern Edge of town.

In Area 3					
OBST ID/ Designation	OBST Type	Obst position	ELEV/HGT (FT)	Markings/ Type, Colour, lighting, lighting (LGT)	Remarks
a	b	c	d	e	f
Wind sensor 02	Equipment	283521.53S 0162642.18E	43	LGTD	NIL
Fire Station	Structure	283513.44S 0162640.60E	33	NIL	NIL
Hangar	Structure	283515.80S 0162638.88E	49	NIL	NIL

FYOG AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated Met office	Windhoek
2	Hours of service MET office outside hours	H24
3	Office responsible for terminal aerodrome forecast (TAF) preparation Periods of validity	Windhoek 9,18 HR Tel: +264 62 540327/ 540059
4	Trend forecast Interval of issuance	NIL
5	Briefing/consultation provided	ATIS 127.15MHz Tel: +264 63 237 704
6	Flight documentation Language(s) used	Charts, abbreviated plain language text English
7	Charts and other information available for briefing or consultation	NIL facilities
8	Supplementary equipment available for providing information	ATIS 127.15MHz Tel: +264 63 237 704
9	ATS units provided with information	NIL facilities
10	Additional information (limitation of service, etc.)	NIL

FYOG AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

<i>Designations RWY NR</i>	<i>TRUE BRG</i>	<i>Dimensions of RWY (M)</i>	<i>Strength of the pavement classification number (PCN) and surface of RWY and SWY</i>	<i>THR Coordinates RWY end coordinates THR geoid undulation</i>	<i>THR Elevation and highest elevation of TDZ of precision APPRWY</i>
1	2	3	4	5	6
02	0°26'20"	1600 x 30M	PCN 13/F/B/W/U Asphalt	283531.29S 0162646.67E 32 M/ 104.99 FT	13FT
20	180°26'20"	1600 x 30M	PCN 13/F/B/W/U Asphalt	283439.33S 0162647.12E 32 M/104.99 FT	13FT

<i>Designations RWY NR</i>	<i>Slope of RWY-SWY</i>	<i>SWY Dimensions (M)</i>	<i>CWY Dimensions (M)</i>	<i>Strip Dimensions (M)</i>	<i>Dimensions of runway end safety areas</i>
1	7	8	9	10	11
02	0.02%	NIL	NIL	1720 x 140	90 x 60 M
20	0.02%	NIL	NIL	1720 x 140	90 x 60 M

<i>Designations RWY NR</i>	<i>Location and description of engineering material arresting system (EMAS)</i>	<i>OFZ</i>	<i>Remarks</i>
1	12	13	14
02	NIL facilities	NIL	NIL
20	NIL facilities	NIL	NIL

FYOG AD 2.13 DECLARED DISTANCES

<i>RWY Designator</i>	<i>TORA (M)</i>	<i>TODA (M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
1	2	3	4	5	6
02	1600	1600	1600	1600	NIL
20	1600	1600	1600	1600	NIL

FYOG AD 2.14 APPROACH AND RUNWAY LIGHTING

<i>RWY Designator</i>	<i>APCH LGT type LEN INTST</i>	<i>THR LGT colour WBAR</i>	<i>VASIS (MEHT) PAPI</i>	<i>TDZ, LGT, LEN</i>	<i>RWY Centre line LGT length, spacing, colour, INTST</i>
1	2	3	4	5	6
02	NIL	Green	NIL	NIL	NIL
20	NIL	Green	PAPI LEFT/3° (14 FT)	NIL	NIL

<i>RWY Designator</i>	<i>RWY edge LGT LEN, spacing colour INTST</i>	<i>RWY End LGT colour WBAR</i>	<i>SWY LGT LEN (M) colour</i>	<i>Remarks</i>
1	7	8	9	10
02	1600M 60M White Last 600M Amber	Red	NIL	NIL
20	1600M 60M White Last 600M Amber	Red	NIL	

FYOG AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics, and hours of operation	NIL
2	LDI location and LGT Anemometer location and LGT	NIL
3	TWY edge lights, centre line lights and stop bars (if any)	Edge: Blue Centre Line: NIL
4	Secondary power supply/switch-over time	AVBL to all Airport facilities (Terminal Building, RWY LGT, TWY LGT and UPS) 15 Sec
5	Remarks	NIL

FYOG AD 2.16 HELICOPTER LANDING AREA

1	<i>Coordinates touchdown and lift-off (TLOF) or THR of final approach and take-off (FATO)</i> <i>Geoid undulation</i>	NIL
2	<i>TLOF and/or FATO elevation M/FT</i>	NIL
3	<i>TLOF and FATO area dimensions, surface, strength, marking</i>	NIL
4	<i>True BRG of FATO</i>	NIL
5	<i>Declared distance available</i>	NIL
6	<i>APP and FATO lighting</i>	NIL
7	<i>Remarks</i>	NIL

FYOG AD 2.17 ATS AIRSPACE

1	<i>Designation and lateral limits</i>	NIL
2	<i>Vertical limits</i>	NIL
3	<i>Airspace classification</i>	G
4	<i>ATS unit call sign</i> <i>Language(s)</i>	NIL
5	<i>Transition altitude</i>	NIL
6	<i>Hours of applicability (or activation)</i>	NIL
7	<i>Remarks</i>	NIL

FYOG AD 2.18 ATS COMMUNICATION FACILITIES

<i>Service designation</i>	<i>Cal sign</i>	<i>Frequency</i>	<i>Hours of Operation</i>	<i>Remarks</i>
1	2	3	4	5
ATIS	ATIS	127.15MHz	H24	Fully operational 50NM radius around the airport on this FREQ 127.15 MHz or TEL: +264 63 237 704
Traffic in FYOG circuit to follow TIBA procedures on FAAB frequency 118.7MHz.				

FYOG AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR, type of Supported OPS (for VOR/ILS/MLS, give declination)	ID	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of Distance Measuring Equipment (DME) transmitting antenna	Service volume radius from the GBAS reference point	Remarks
1	2	3	4	5	6	7	8
RNP APCH	N/A	1575.42 MHz	H24	N/A	N/A		Transmitting antennas are satellite based

FYOG AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

1.1 Hazard, Incident Accident:

- a) All safety hazards, incidents and accidents are to be reported to FYOG Fire Station Control Room at +264 81 145 4194 or +264 63 7762/3.

1.2 Blasting Warning

- a) 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.
- b) Occasional blasting on 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 1500 FT.

1.3 Navigation Warning

- a) Low level helicopter operations outside ATA operate on 124.8 MHz. Doing ship service.

1.4 Reflective Jackets

- a) All pilots and crew operating at FYOG must wear a lime green reflective jacket for safety reasons.

1.5 Overload Operations

- a) Overloading of pavements can result either from loads too large, or from a substantially increased application rate, or both.
- b) Loads larger than the defined (design or evaluation) load shortens the design life, whilst smaller loads extend it.
- c) Occasional minor overloading is acceptable, when expedient, with only limited loss in pavement life expectancy and relatively small acceleration of pavement deterioration.

- d) For operations in which magnitude of overload and/or the frequency of use do not justify a detailed analysis, the following criteria will be used:
 - i. For flexible pavements, occasional movements by aircraft with ACN not exceeding 10 per cent above the reported PCN should not adversely affect the pavement.
 - ii. For rigid or composite pavements, in which a rigid pavement layer provides a primary element of the structure, occasional movements by aircraft with ACN not exceeding 5 per cent above the reported PCN should not adversely affect the pavement.
 - iii. If the pavement structure is unknown, the 5 per cent limitation should apply.
 - iv. The annual number of overload movements should not exceed approximately 5 per cent of the total annual aircraft movements.
- e) Such overload movements will not normally be permitted on pavements exhibiting signs of distress or failure.
- f) Furthermore, overloading will be avoided during any periods of that following frost penetration, or when the strength of the pavement or its subgrade could be weakened by water.
- g) Where overload operations are conducted, the Airport Manager will ensure that a review of the relevant pavement condition regularly and will review the criteria for overload operations periodically since excessive repetition of overloads can cause severe shortening of pavement life or require major rehabilitation of pavement.
- h) Aircraft Operators intending to use aircraft with a high an ACN exceeding the published PCN must request for approval from the Airport Manager via email (See FYOG AD 2.2, Section 6).

1.6. After Hours Operations

- a) Notify the Airport Manager (See FYOG AD 2.2, Section 6) 24HR in advance for after-hours operations and 2HR in advance for MEDEVAC and mercy flight via email and a message or call.
- b) Provide the following information:
 - i. Pilot in command
 - ii. Type of aircraft
 - iii. Call sign
 - iv. Number of passengers on board
 - v. Date and time of Arrival and Departure
 - vi. Destination
 - vii. Service required
- c) Other details relevant to the evaluation of the request must be provided as required.
- d) An after-hours application will be sent to the aircraft operator to complete and returned to the Airport Manager or a Designate Person, who after consultation with service providers at FYOG will approve or reject the request.

2. Taxiing to and from stands

2.1 Taking off on runway 02

- a) Exit the apron via taxiway bravo to enter the runway to proceed to threshold 02.

2.2 Taking off on runway 20

- a) Exit the apron via taxiway alpha to enter the runway to proceed east to threshold 20.

2.3 Landing on runway 02

- a) Proceed to taxiway alpha or bravo to enter the apron.

2.4 Landing on runway 20.

- a) Exit the runway using Taxiway bravo or Charlie to enter the apron.

3. Parking area for small aircraft.

(GENERAL AVIATION)

- a) There are no designated stands for the parking of small aircraft, pilots are strictly requested to adhere to the marshalling signals from the Marshaller.
- b) Restricted area (Redzone), no aircraft allowed to park at the northern side of the apron behind the yellow line.

4. Parking area for helicopters

- a) Restricted area (Redzone), no aircraft allowed to park at the northern side of the apron behind the yellow line.

5. Apron - Taxiing during winter conditions

NIL.

6. Taxiing - Limitations

NIL.

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

- a) Training flights and technical test flights are necessary for the purpose of ascertaining the airworthiness of an aircraft during flight must take caution not to cause disruption or risk normal operations.

8. Helicopter traffic - Limitation

- a) Low level helicopter operations outside ATA operate on 124.8 MHz. Doing ship service.

9. Removal of disabled aircraft from runways

- a) An aircraft owner or operator will always retain complete responsibility for the removal of a disabled aircraft. All airline operators at FYOG are expected to have an aircraft recovery plan. For non-airlines operators at FYOG, the pilot or aircraft owner is responsible for the immediate removal and or disposal of the disabled aircraft.

- b) An aircraft owner or operator must remove their aircraft within the following hours: 8 hours for light aircraft (MTOW of 7000 kg or less) and 24 hours for medium aircraft (MTOW of 7001 kg to 136 000 kg).
- c) If a disabled aircraft is not removed within the specified hours, the airport operator (FYOG) will remove the disabled aircraft at the cost of the aircraft owner or operator and the airport operator (FYOG) will be indemnified of any damages caused when removing of the disabled aircraft.

FYOG AD 2.21 NOISE ABATEMENT PROCEDURES

Avoid flights over town

FYOG AD 2.22 FLIGHT PROCEDURES

- a) 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

- a) 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

Instrument Approach Chart – ICAO RNP RWY 02
Data Code - ICAO RNP RWY 02
Instrument Approach Chart – ICAO RNP RWY 20
Data Code – ICAO RNP RWY 20

Page
FYOG AD 2-13
FYOG AD 2-14
FYOG AD 2-15
FYOG AD 2-16

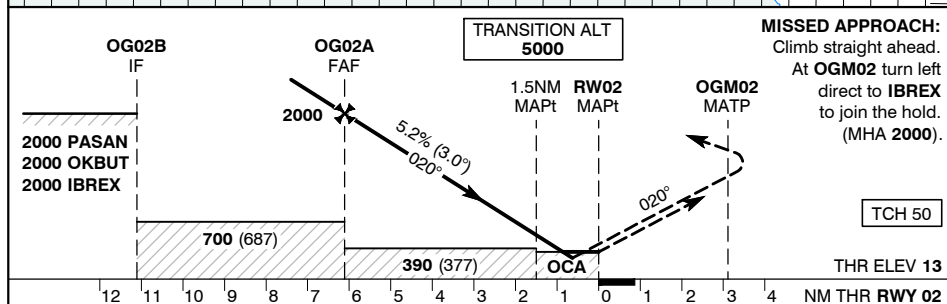
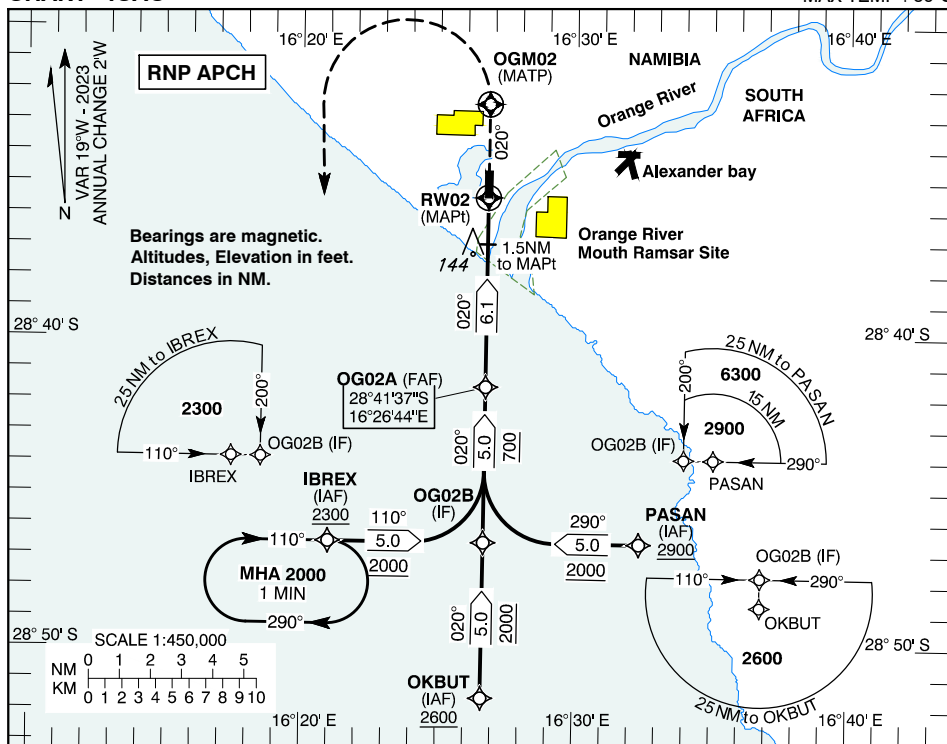
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**INSTRUMENT
APPROACH
CHART - ICAO**

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

UNM	118.70
ATIS	127.15

**Oranjemund (FYOG)
RNP RWY 02**
MNM TEMP -10°C
MAX TEMP +60°C



Aircraft CAT		A		B		C		CAUTION: 1. Sporadic large bird's activities. 2. Avoid overflying the Ramsar Nature Site between the Oranje River Mouth and the Border Bridge. NOTE: 1. Only attempt LNAV/VNAV app. once QNH is received from ATIS. COMMUNICATION FAILURE PROCEDURE: Squawk 7600. Follow the Missed Approach Procedure to IBREX. Enter the Hold at IBREX. Hold for 5 mins, then complete the Approach.A
OCA (H)	LNAV	340 (327)						
	LNAV/VNAV	270 (257)		270 (257)		280 (267)		
Circling (Heights AAL)		640 (627)		740 (727)		960 (947)		
Distance to MAPt	NM	6	5	4	3	2	1	
Altitude	FT	1975 (1962)	1655 (1642)	1335 (1322)	1015 (1002)	700 (687)	380 (367)	
Ground Speed	KTS	80	100	120	140	160		
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850		

CHANGES: New procedure.

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	PASAN	284640.17S / 0163222.74E	-	-	-	-	- / 2900	-	-	-
2	RNP APCH	TF	OG02B	284638.19S / 0162641.35°E	N	270.4 / 290	5.0	-	- / 2000	-	-	-
3	RNP APCH	TF	OG02A	284137.41S / 0162643.73E	N	000.4 / 020	5.0	R	- / 700	-	-	-
4	RNP APCH	TF	RW02	283531.29S / 0162646.67E	Y	000.4 / 020	6.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OGM02	283230.83S / 0162648.11E	Y	000.4 / 020	-	-	-	-	-	-
6	RNP APCH	DF	IBREX	284635.97S / 0162059.97E	N	-	-	L	- / 2000	-	-	-

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	OKBUT	285138.96S / 0162638.96E	-	-	-	-	- / 2600	-	-	-
2	RNP APCH	TF	OG02B	284638.19S / 0162641.35E	N	000.4 / 020	5.0	-	- / 2000	-	-	-
3	RNP APCH	TF	OG02A	284137.41S / 0162643.73E	N	000.4 / 020	5.0	-	- / 700	-	-	-
4	RNP APCH	TF	RW02	283531.29S / 0162646.67E	Y	000.4 / 020	6.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OGM02	283230.83S / 0162648.11E	Y	000.4 / 020	-	-	-	-	-	-
6	RNP APCH	DF	IBREX	284635.97S / 0162059.97E	N	-	-	L	- / 2000	-	-	-

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	IBREX	284635.97S / 0162059.97E	-	-	-	-	- / 2300	-	-	-
2	RNP APCH	TF	OG02B	284638.19S / 0162641.35E	N	090.4 / 110	5.0	-	- / 2000	-	-	-
3	RNP APCH	TF	OG02A	284137.41S / 0162643.73E	N	000.4 / 020	5.0	L	- / 700	-	-	-
4	RNP APCH	TF	RW02	283531.29S / 0162646.67E	Y	000.4 / 020	6.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OGM02	283230.83S / 0162648.11E	Y	000.4 / 020	-	-	-	-	-	-
6	RNP APCH	DF	IBREX	284635.97S / 0162059.97E	N	-	-	L	- / 2000	-	-	-

Hold Identification

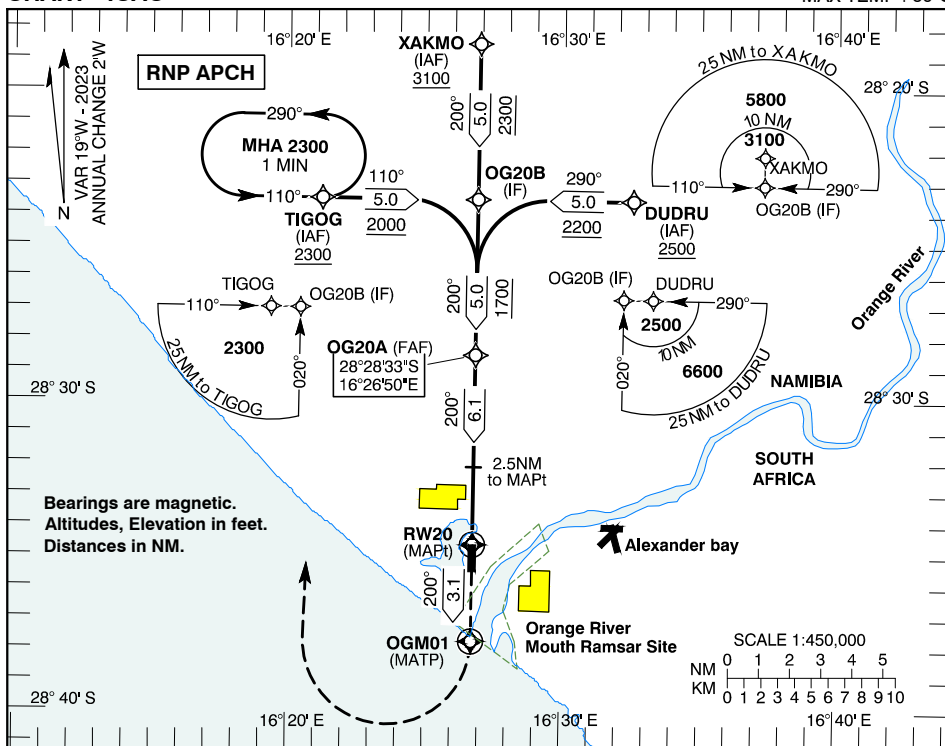
Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude/ Level (FL/ft)	Maximum Holding Altitude/ Level (FL/ft)	Outbound time (min)	Direction of Turn
IBREX	284635.97S / 0162059.97E	090.5	110	-	2000	-	1	R

INSTRUMENT
APPROACH
CHART - ICAO

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

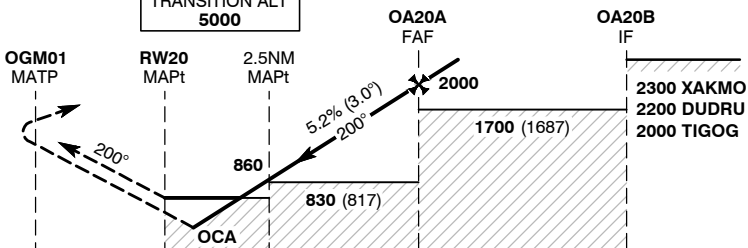
UNM	118.70
ATIS	127.15

Oranjemund (FYOG)
RNP RWY 20
MNM TEMP -10°C
MAX TEMP +60°C



MISSED APPROACH:
Climb straight ahead.
At **OGM01** turn right
direct to **TIGOG**
to join the hold.
(MHA 2300).

TRANSITION ALT
5000



RDH 50

THR ELEV 13

NM THR RWY 20 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12

Aircraft CAT		A		B		C	
OCA (H)	LNAV	640 (627)					
	LNAV/VNAV	290 (277)		300 (287)		310 (297)	
Circling (Heights AAL)		640 (627)		740 (727)		960 (947)	
Distance to MAPt	NM	2	3	4	5	6	
Altitude	FT	700 (687)	1020 (1007)	1335 (1322)	1655 (1642)	1975 (1962)	
Ground Speed	KTS	80	100	120	140	160	
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850	

CAUTION:

1. Sporadic large bird's activities.

2. Avoid overflying the Ramsar Nature Site between the Oranje River Mouth and the Border Bridge.

NOTE:

1. Only attempt LNAV/VNAV app. once QNH is received from ATIS.

COMMUNICATION FAILURE PROCEDURE:

Squawk 7600. Follow the Missed Approach Procedure to TIGOG. Enter the Hold at TIGOG. Hold for 5 mins. then complete the Approach.

CAUTION:

1. Sporadic large bird's activities.
2. Avoid overflying the Ramsar Nature Site between the Orange River Mouth and the Border Bridge.

NOTE:

1. Only attempt LNAV/VNAV app. once QNH is received from ATIS.

COMMUNICATION FAILURE

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

CHANGES: New procedure.

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	TIGOG	282330.24S / 0162112.28E	-	-	-	-	- / 2300	-	-	-
2	RNP APCH	TF	OG20B	282332.45S / 0162652.42E	N	090.4 / 110	5.0	-	- / 2000	-	-	-
3	RNP APCH	TF	OG20A	282833.24S / 0162650.04E	N	180.4 / 200	5.0	R	- / 1700	-	-	-
4	RNP APCH	TF	RW20	283439.33S / 0162647.12E	Y	180.4 / 200	6.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OGM01	283745.81S / 016245.62E	Y	180.4 / 200	-	-	-	-	-	-
6	RNP APCH	DF	TIGOG	282330.24S / 0162112.28E	N	-	-	R	- / 2300	-	-	-

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	XAKMO	281831.66S / 016254.79E	-	-	-	-	- / 3100	-	-	-
2	RNP APCH	TF	OG20B	282332.45S / 0162652.42E	N	180.4 / 200	5.0	-	- / 2300	-	-	-
3	RNP APCH	TF	OG20A	282833.24S / 0162650.04E	N	180.4 / 200	5.0	-	- / 1700	-	-	-
4	RNP APCH	TF	RW20	283439.33S / 0162647.12E	Y	180.4 / 200	6.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OGM01	283745.81S / 0162645.62E	Y	180.4 / 200	-	-	-	-	-	-
6	RNP APCH	DF	TIGOG	282330.24S / 0162112.28E	N	-	-	R	- / 2300	-	-	-

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	DUDRU	282334.44S / 0163232.56E	-	-	-	-	- / 2500	-	-	-
2	RNP APCH	TF	OG20B	282332.45S / 0162652.42E	N	270.4 / 290	5.0	-	- / 2200	-	-	-
3	RNP APCH	TF	OG20A	282833.24S / 0162650.04E	N	180.4 / 200	5.0	L	- / 1700	-	-	-
4	RNP APCH	TF	RW20	283439.33S / 0162647.12E	Y	180.4 / 200	6.1	-	-	-	3.00 / 50	-
5	RNP APCH	CF	OGM01	283745.81S / 0162645.62E	Y	180.4 / 200	-	-	-	-	-	-
6	RNP APCH	DF	TIGOG	282330.24S / 0162112.28E	N	-	-	R	- / 2300	-	-	-

Hold Identification – AD 2-11

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
TIGOG	282330.24S / 0162112.28E	090.5	110	-	2300	-	1	L

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) / 0.10° 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: sinvulab@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.	<i>AD administration</i>	MON-FRI: 0600-1500 SAT: CLOSED SUN: 0600-1500
2.	<i>Customs and immigration</i>	Customs and excise: +264 66 2650090/10/11 Immigration: +264 66 255356
3.	<i>Health and sanitation</i>	Nil facilities
4.	<i>AIS briefing office</i>	Nil facilities
5.	<i>ATS reporting office (ARO)</i>	Nil facilities
6.	<i>MET briefing office</i>	Nil facilities
7.	<i>ATS</i>	Nil facilities
8.	<i>Fuelling</i>	Service available sunrise to sunset or 'PN', Cell: +264811246878 /+264811243898 /+264 81 1508604
9.	<i>Handling</i>	Nil facilities
10.	<i>Security</i>	Nil facilities
11.	<i>De-icing</i>	Nil facilities
12.	<i>Remarks</i>	Except in the case of emergency flights, 24HR notification is required for Saturdays and after-hours operations.

FYRU AD 2.4 HANDLING SERVICES AND FACILITIES

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

FYRU AD 2.5 PASSENGER FACILITIES

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

FYRU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	<i>AD category for fire fighting</i>	CAT 5
2.	<i>Rescue equipment</i>	1 vehicle, 9000 litres of water
3.	<i>Capability for removal of disabled aircraft</i>	NIL
4.	<i>Remarks</i>	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.	<i>Apron surface and strength</i>	Surface: Concrete and Asphalt Strength: Nil info
2.	<i>Taxiway width, surface and strength</i>	Width: 23 M Surface: Asphalt Strength: Nil info
3.	<i>ACL location and elevation</i>	Nil info
4.	<i>VOR/INS checkpoints</i>	Nil facilities
5.	<i>Remarks</i>	Nil

FYRU AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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

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

NIL

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

FYSA AD 2.5 PASSENGER FACILITIES

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

FYSA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	<i>AD category for fire fighting</i>	CAT 1
2.	<i>Rescue equipment</i>	Nil
3.	<i>Capability for removal of disabled aircraft</i>	Nil
4.	<i>Remarks</i>	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.	<i>Types of clearing equipment</i>	Nil
2.	<i>Clearance priorities</i>	Nil
3.	<i>Remarks</i>	Available all season

FYSA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

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

FYSA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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

<i>Designations RWY NR</i>	<i>TRUE & MAG BRG</i>	<i>Dimensions of RWY (M)</i>	<i>Strength (LCN) and surface of RWY and SWY</i>	<i>THR Co-ordinates</i>	<i>THR Elevation and Highest Elevation of TDZ of Precision APP RWY</i>
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	

<i>Slope of RWY- SWY</i>	<i>SWY Dimensions (M)</i>	<i>CWY Dimensions (M)</i>	<i>Strip Dimensions (M)</i>	<i>OFZ</i>	<i>Remarks</i>
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

<i>RWY Designator</i>	<i>TORA (M)</i>	<i>TODA (M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
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 Airport

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.	Geoid undulation at AD ELEV PSN	NIL INFO AVBL
5.	Magnetic (MAG) variation (VAR)/annual change	13° W (2016)/ 0.12° decreasing
6.	Name of aerodrome operator, address, telephone, telefax numbers, e-mail address, AFS address and, if available, website address	Municipality of Swakopmund Engineering and Planning Department Aerodrome Administration P O Box 53 Swakopmund Namibia Tel: +264 64 410 4111 Swakopmund Municipal Aerodrome Office Tel: +264 64 410 4442 Cell: +264 81 150 4809 M U F Gaweseb Aerodrome Superintendent mgaweseb@swkmun.com.na
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR
8.	Remarks	Public aerodrome

FYSM AD 2.3 Operational Hours

1.	Aerodrome operator	MON-SUN: 0500 - 1700
2.	Customs and immigration	NIL facilities
3.	Health and sanitation	NIL facilities
4.	Aeronautical Information Service (AIS) briefing office	NIL service
5.	ATS reporting office (ARO)	NIL service
6.	MET briefing office	NIL facilities
7.	ATS	NIL service
8.	Fuelling	MON – FRI: 0600 – 1500 SAT: 0700 - 1500 SUN: 0700 - 1100
9.	Handling	As AD administration

10.	Security	H24
11.	De-icing	NIL
12.	Remarks	Except in the case of an emergency or with prior permission no aircraft may take off or land outside AD OPR HR within daylight OPR HR. Meteorology office based at Hosea Kutako International Airport Tel: +264 62 540 3327 Aeronautical Information Service (AIS) briefing office based at Windhoek Eros Airport Tel: +264 61 702 080/3/9.

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 64 407 185 Refueler: Naftal lita: +264 81 461 9461 Moses Ndoni: +264 81 769 0252 Standby cellphone: +264 81 150 2399 Controlling Office Tel: +264 64 203 951 +264 81 150 2489 Email: WalvisBay@sec.com.na 70 000 Litre AVGAS container unit 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	Skycore Aviation P O Box 80855, Windhoek Swakop@skycore.com.na Swakopmund duty: +264 81 164 6818 Pieter Keil: +264 81 124 9578 Tel: +264 83 339 1000
7.	Remarks	NIL

FYSM AD 2.5 PASSENGER FACILITIES

1.	<i>Hotels</i>	In town
2.	<i>Restaurants</i>	In town
3.	<i>Transportation</i>	Car hire
4.	<i>Medical facilities</i>	Hospital in town
5.	<i>Bank and post office</i>	In town
6.	<i>Tourist office</i>	In town
7.	<i>Remarks</i>	NIL

FYSM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	<i>AD category for fire fighting</i>	CAT 1
2.	<i>Rescue equipment</i>	8 x 9kg DCP 4 x 4.5kg DCP
3.	<i>Capability for removal of disabled aircraft</i>	Removal of disabled aircraft is the responsibility of the registered owner or aircraft operator. Disabled aircraft removal coordinator Mr. Marco Gaweseb Aerodrome Superintendent Tel: +264 64 4104443 Fax: NIL Cell: +264 81 150 4809 (during and after hours) Email: mgaweseb@swkmun.com.na
4.	<i>Remarks</i>	NIL

FYSM AD 2.7 SEASONAL AVAILABILITY - CLEARING

NIL facilities available.

FYSM AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

5.	<i>Apron designation, surface and strength</i>	Interlocked
6.	<i>Taxiway designation, width, surface and strength</i>	TWY: Width 1100M x 17M, Ground
7.	<i>Altimeter checkpoint location and elevation</i>	NIL INFO
8.	<i>VHF omnidirectional radio range (VOR) checkpoints</i>	NIL facilities
9.	<i>INS checkpoints</i>	NIL INFO
10.	<i>Remarks</i>	NIL

FYSM AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	<i>Use of aircraft stand ID signs, TWY guidelines and visual docking/ parking guidance system of aircraft stands</i>	NIL facilities
2.	<i>RWY and TWY markings and LGT</i>	White reflector plates for night operation on RWY 24 only. White concrete plates on edges of RWY 17/35 only. RWY designation markings on all RWY. RWY guidance signs erected near TWY.
3.	<i>Stop bars</i>	NIL facilities
4.	<i>Other runway protection measures</i>	NIL
5.	<i>Remarks</i>	ACFT may not use TWY 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 for take-off and landing only.

FYSM AD 2.10 Aerodrome obstacles

<i>In Approach/TKOF areas</i>			<i>In circling areas and at AD</i>		<i>Remarks</i>
1			2		3
<i>RWY/Area affected</i>	<i>Obstacle Type Elevation Markings/ LGT</i>	<i>Co-ordinates</i>	<i>Obstacle type Elevation Markings/ LGT</i>	<i>Co-ordinates</i>	
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 terminal aerodrome forecast (TAF) preparation Periods of validity	Windhoek MET office (Tel: +264 62 540 059)
4.	Trend 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

<i>Designations RWY NR</i>	<i>TRUE BRG</i>	<i>Dimensions of RWY (M)</i>	<i>Strength of the pavement classification number (PCN) and surface of RWY and SWY</i>	<i>THR coordinates RWY end coordinates THR geoid undulation</i>	<i>THR elevation and highest elevation of TDZ of precision APP RWY</i>
1	2	3	4	5	6
06	NIL INFO	1600 x 18	Sand	NIL INFO	NIL INFO
24	NIL INFO	1600 x 18	Sand	NIL INFO	NIL INFO
17	NIL INFO	963 x 24	Sand	NIL INFO	NIL INFO
35	NIL INFO	963 x 24	Sand	NIL INFO	NIL INFO

<i>Designations RWY NR</i>	<i>Slope of RWY- SWY</i>	<i>SWY Dimensions (M)</i>	<i>CWY Dimensions (M)</i>	<i>Strip Dimensions (M)</i>	<i>Dimension of RWY end safety areas</i>	<i>Remarks</i>
1	7	8	9	10	11	12
06	NIL	NIL	NIL	NIL	NIL	NIL
24	NIL	NIL	NIL	NIL	NIL	Run up Area on TWY 24
17	NIL	NIL	NIL	NIL	NIL	Run up Area on THR RWY 17
35	NIL	NIL	NIL	NIL	NIL	Run up Area on THR RWY 17

FYSM AD 2.13 DECLARED DISTANCES

<i>RWY Designator</i>	<i>TORA (M)</i>	<i>TODA (M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
1	2	3	4	5	6
06	1600	1600	1600	1600	NIL
24	1600	1600	1600	1600	NIL
17	963	963	963	963	NIL
35	963	963	963	963	NIL

FYSM AD 2.14 APPROACH AND RUNWAY LIGHTING

Low intensity landing reflectors have been installed on RWY 06/24

FYSM AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

NIL facilities available.

FYSM AD 2.16 HELICOPTER LANDING AREA

Helicopters to make use of the apron.

FYSM AD 2.17 ATS AIRSPACE

NIL ATS airspace

FYSM AD 2.18 ATS COMMUNICATION FACILITIES

<i>Service designation</i>	<i>Call sign</i>	<i>Frequency</i>	<i>Hours of operation</i>	<i>Remarks</i>
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

All aircraft including micro-lights are not allowed to make use of the TWY between hangers and airside for either landing or take-off.

All aircraft must complete the arrival and departure register AVBL at the airfield terminal building area before and after each flight.

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 minimize noise pollution.**

NOTE: Not applicable to ACFT with radio communication failure.

1.1 No aircraft shall over-fly the town below 1 000FT AGL unless permission is granted by the town council or NCAA.

- 1.2 Departing and Landing Aircraft are to avoid overflying built up areas of Swakopmund and Rossmund at below 1 000 FT AGL except for the purpose of landing and taking off. Aircraft departing RWY 24 are not to commence R/H Turn below 1 000 FT AGL or South of Swakop River, downwind at 1 000FT AGL.
- 1.3 Runway 24 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 from the Salt Pans or Mile 4 (SP4).
- 1.4 Aircraft inbound from the South via Swakop River Mouth (SRM) turn inbound at SRM and join the circuit left downwind for Runway 24. If runway 06 is in use fly straight from the SRM for runway 06.
- 1.5 Runway 06 aircraft joining along the coast from the North shall remain over the ocean at 1 000FT AGL until past the river mouth before joining final for RWY 06 or left downwind for RWY 24.
- 1.6 Only right circuits shall apply for RWY 35.
- 1.7 Only left circuits shall apply for RWY 17.
- 1.8 Aircraft departing on RWY 24 for northbound flights shall maintain runway heading or until passing 1 000FT reaching the river mouth, before turning out to the right or alternatively turn out to the left after take-off.

FYSM AD 2.22 FLIGHT PROCEDURES

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

1.1 Radio Communication Failure

- (a) Aircraft to join the Aerodrome at 2 000 FT AGL
- (b) Observe and join the Aerodrome TFC
- (c) Land as soon as possible

1.2 Traffic joining from the South

Aircraft inbound from the South via Swakop River Mouth (SRM) turn inbound at SRM and join the circuit left downwind for Runway 24. If runway 06 is in use fly straight from the SRM for runway 06.

Aircraft inbound from the South passing west abeam town towards Salt Pans/Mile 4 (SP4) turn inbound to the Aerodrome at the SP4 and join the circuit right hand base for runway 24. If runway 06 is in use, fly right hand downwind to runway 06, followed by right hand base not below 1 000FT AGL turn final for runway 06.

1.3 Traffic joining from the North

Aircraft inbound from the North via Salt Pans/Mile 4 (SP4) to turn inbound to the Aerodrome at the SP4 and join the circuit right hand base for Runway 24. If Runway 06 is in use, fly right hand downwind to runway 06, followed by right hand base turn to final for runway 06.

Aircraft inbound from the North passing west abeam town to Swakop River Mouth (SRM) turn inbound at SRM and join the circuit left downwind for Runway 24 at 1 000FT AGL. If runway 06 is in use, fly straight in from the SRM to runway 06.

1.4 Traffic joining from the East

Aircraft inbound from the East shall, if runway 24 is in use, join on a left-hand base for runway 24 or if runway 06 is in use, join the circuit right downwind for runway 06.

1.5 GENERAL FLYING AREA

The FYSM-GFA begins roughly 8 NM East of the Swakopmund Airfield & extends to 17 NM East. The Southern boundary is the B2 (tar road to Arandis). The Northern boundary is the Dolerite ridge that runs East to West. The Western edge is a tangent line from the TZ of FYSM to the radio mast near the B2 at MARET (VFR point). The Eastern side is the ridge line of the Rössing Mountain & continues NW to the Northernmost point.

2. Night landing procedures

NIL facilities.

FYSM AD 2.23 ADDITIONAL INFORMATION

1. Parachute Jumping

1.1 Parachute Jumping Exercises seven days a week and traffic are 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 (NILATC)

1.2 A permanent drop zone has been declared at Amphitheatre (224400S 0143400E) which is 4.5 NM south of Swakopmund 6 000 FT AGL/GND.

1.3 A permanent drop zone has been declared at Lunar Landscape (224000S 0144800E) which is 13 NM east of Swakopmund 6000 FT AGL.

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

1.5 Arriving and departing aircraft to exercise caution.

2 Blasting

2.1 Blasting that occurs in the town and vicinity of Swakopmund to be published on the NOTAM.

FYSM AD 2.24 CHARTS RELATED TO SWAKOPMUND

NIL charts available for Swakopmund Aerodrome.

AD 2. AERODROMES

FYWB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYWB - Walvis Bay International Airport

FYWB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP co-ordinates and site at AD	225845S 0143849E 07° / 1500 M from THR09
2.	Direction and distance from (city)	270° East, 8 NM from Walvis Bay
3.	Elevation/reference temperature	316 FT / 25°C
4.	Geoid undulation at AD ELEV PSN	96 FT
5.	MAG VAR/annual change	13° W (2025)/ 0.07° decreasing
6.	Name of aerodrome operator, address, telephone, telefax numbers, e-mail address, AFS address and, if available, website address	Namibia Airports Company Limited Walvis Bay International Airport Walvis Bay Airport Manager Ms. Chrizelda George Contact Details Tel: +264 64 271 100 Telefax: +264 64 200 164 Cell: +264 81 163 5038 (during or after hours) Email : georgec@airports.com.na wvboptions@airports.com.na Website: www.airports.com.na ATC Tel: +264 64 702690/1 Fax: +264 64 702699 AFS: FYWB DYX
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR
8.	Remarks	NIL

FYWB AD 2.3 OPERATIONAL HOURS

1.	AD Operator	MON-SUN: 0700 – 1600
2.	Customs and immigration	MON-SUN: 0800-1500
3.	Health and sanitation	Available within AD Hours. 2 HR PN to AD required
4.	AIS briefing office	NIL
5.	ATS reporting office (ARO)	As AD Administration
6.	MET briefing office	As AD Administration
7.	ATS	TWR: MON-FRI: 0700-1500 SAT/SUN/Public Holidays: 0800-1500 APP: MON-FRI: 0500-1700
8.	Fuelling	As AD Administration

9.	<i>Handling</i>	As AD Administration
10.	<i>Security</i>	24 HR
11.	<i>De-icing</i>	NIL
12.	<i>Remarks</i>	Outside AD HR, services are available O/R. Request to be submitted to the AD not later than 1100 UTC. NAMRA/Customs and Excise Contact Details Tel: +264 64 206 522 After Hour: +264 81 261 6596 Home Affairs: Immigration Contact Details Tel: +264 81 951 0254 After Hour: +264 81 389 8137 Aeronautical Information Services Contact Details (FYWE) Tel: +264 61 702 080/1/3 Fax: +264 61 702 088 Meteorological Services Contact Details Tel: +264 64 702 685 After Hour: +264 81 247 6225 Air Traffic Services Contact Details Tel: +264 64 702 2690/1 After Hour: +264 81 277 7918 and +264 81 308 1520 Port Health Tel: +264 64 216 354 After Hour: +264 81 490 2035

FYWB AD 2.4 HANDLING SERVICES AND FACILITIES

1.	<i>Cargo-handling facilities</i>	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 (bakkie) & aircraft cleaning.
2.	<i>Fuel/oil types</i>	Jet A1 and AVGAS 100LL
3.	<i>Fuelling facilities/capacity</i>	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.	<i>De-icing facilities</i>	NIL
5.	<i>Hangar space for visiting aircraft</i>	Limited by prior arrangement only.
6.	<i>Repair facilities for visiting aircraft</i>	NIL
7.	<i>Remarks</i>	Handling services available within AD HR or by arrangement with the AD. Walvis Bay Airport Services (WBAS) Tel: +264 64 201 2180/ +264 64 204 878 Telefax: +264 64 204 878 Mobile: +264 81 147 3186, +264 81 885 1427 and +264 81

		247 0066 During and Afterhours Email: admin@wbas.com.na Southern Energy Company Walvis Bay Airport Tel: +264 64 203 951 Fuel Operator and Standby cell phone: +264 81 150 2489 Fuel Operator and Supervisor: +264 81 146 0650 Email Operator: WernerL@sec.com.na and WalvisBay@sec.com.na Administration Office Contact: Fax: +264 64 203 951 Tel: +264 81 150 2507 Email Administration: ClaudineL@sec.com.na
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FYWB AD 2.5 PASSENGER FACILITIES

1.	Hotels	Near the AD and in the city
2.	Restaurants	At AD and in the city
3.	Transportation	Taxis and car hire from the AD
4.	Medical facilities	First aid at AD. Hospital in the city
5.	Bank and post office	In the city
6.	Tourist office	Office in the city. Tel: Walvis Bay +264 64 207 444 Email: bookings@walvisbaytourism.com
7.	Remarks	AD website: www.airports.com.na

FYWB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	Within AD HR: CAT 6
2.	Rescue equipment	Standard firefighting equipment carried on all fire response vehicles in accordance with NAMCARs and ICAO requirements for Category 6 Airport. 1 x (Rescue 1) Rosenbauer Panther 6 x 6 fire fighting vehicle, 1 x Marce Rhino 6 x 6 fire fighting vehicle. Extinguishing medium excluding reserves 25000 litres of water, 3000 foam concentrate, 500 Dry Chemical Powder. Total foam solution discharge rate: R1: 9000 litres/minute and R2: 5000 litres/minute. Reserve extinguishing medium: 200% Aqueous film Forming Foam / water reservoir 760m³ capacity and 6 fire hydrants.

3.	<i>Capability for removal of disabled aircraft</i>	Airport has limited equipment for light aircraft removal only. For the removal of medium to large aircraft, equipment may be sourced as per emergency management response plan when required. Aircraft operator obliged to remove disabled aircraft from manoeuvring area within agreed time frames. Removal of disabled aircraft is the responsibility of the airline or registered owner or aircraft operator.
4.	<i>Remarks</i>	Service Level Agreement with AWH Africa Rigging and Plant Rentals CC for the removal of disabled aircraft up to critical aircraft Embraer 190. Coordinator for Removal of Disabled Aircraft: Mr. A. Kamati, Acting Chief ARFF, Tel: +264 81 207 4590 Email: kamati@airports.com.na

FYWB AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	<i>Types of clearing equipment</i>	NIL
2	<i>Clearance priorities</i>	NIL
3	<i>Remarks</i>	NIL

FYWB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1.	<i>Apron designation, surface and strength</i>	Cargo Apron: Concrete, 117/R/A/W/T Asphalt, 130/F/A/W/T Passenger Apron: Concrete, 19/R/B/W/U Asphalt, 19/F/B/W/U
2.	<i>Taxiway designation, width, surface and strength</i>	Alpha (A), 15 M, Asphalt, PCN 19/F/B/W/U Bravo (B), 25 M, Asphalt, PCN 130/F/A/W/T Charlie (C), 15 M, Asphalt, PCN 19/F/B/W/U Delta (D), permanently closed Echo (E), permanently closed Foxtrot (F), 7 M, Gravel and Tared, PCN 19/F/B/W/U)
3.	<i>Altimeter checkpoint location and elevation</i>	Location: At Cargo Apron Elevation: 299 FT
4.	<i>VHF Omni-directional Radio Range (VOR) checkpoints</i>	TWY B Holding position: 225648.90S 0143821.65E TWY C Holding position:

		225846.06S 0143831.15E Frequency: 113.6 MHz
5.	INS checkpoints	NIL
6.	Remarks	Refer to AD 2.20 Local Traffic Regulations 5. Taxi Limitations

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 Parking of ACFT as per ARFF Marshaller
2.	RWY and TWY markings and LGT	RWY: Designation, THR, TDZ, centre line, aiming point edge runway end as appropriate, marked, and lighted. TWY: Centre Line, holding positions at TWY B, C and F intersections, VOR checkpoint at TWY B and C holding positions, TWY leading lines, marked.
3.	Stop bars	Stop Bar on main intersection from main taxiway to cargo apron. Stop Bar on main intersection from RWY 27 to main taxiway. Stop Bar on main intersection from RWY 09 to main taxiway.
4.	Other runway protection measures	Guard Light is on the same line as the stop bar, on the side. Guard Light located on main intersection from main taxiway to cargo apron. Guard Light on main intersection from RWY 27 to main taxiway. Guard Light on main intersection from RWY 09 to main taxiway.
5.	Remarks	Refer to AD 2.20 Local Traffic Regulations 5. Taxi Limitations

FYWB AD 2.10 AERODROME OBSTACLES

In Area 1					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT (FT)	Markings / Type, Colour, Lighting (LGT)	Remarks
a	b	c	d	e	f
HI GRND1	Mountain	225820.12S 0144017.71E	368FT	NIL	09/TKOF 27/APCH

In Area 2					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT (FT)	Markings / Type, Colour, Lighting (LGT)	Remarks
a	b	c	d	e	f
ROOI RES	RESERVOIR	225850.47S 0143937.36E	509/124	Marked	NIL
VOR WBV	NAV Aid	225855.59S 0143840.48E	299/3	Marked/LGT	NIL
ARB C	NAV Aid	225851.32S 0143847.51E	322/10	Marked/LGT	NIL
GP Container	NAV Aid	225835.90S 0143937.11E	322/10	Marked/LGT	NIL
GP27 Mon Pole	Glide Path 27	225834.77S 0143940.80E	312/20	Marked/ LGT	NIL
MET Station Mid	NAV Aid	225855.70S 0143828.48E	299/33	Marked	NIL
MET Station 09	NAV Aid	225904.17S 0143800.02E	272/33	Marked	NIL
MET Station 27	NAV Aid	225835.94S 0143935.09E	344/33	Marked	NIL
Wind Sensor OLD	NAV Aid	225852.38S 0143844.81E	305/33	Marked	NIL
Wind Sensor 09	NAV Aid	225903.14S 0143803.63E	253/10	Marked	NIL
Wind Sensor 27_A	NAV Aid	225836.81S 0143932.10E	328/10	Marked	NIL
LOC09 Monitor	NAV Aid	225904.18S 0143748.75E	240/3	Marked/LGT	NIL
Sub27	NAV Aid	225837.06S 0143937.51E	322/10	Marked	NIL
GP 27	Glide Path 27	225835.82S 0143937.28E	367/33	Marked/ LGT	NIL
HI GRND2	TERRAIN	225830.51S 0144035.10E	407/26	NIL	NIL
Windsock_ Mid	NAV Aid	225852.15S 0143850.76E	299/26	Marked/LGT	NIL
Windsock27	NAV Aid	225834.43S 0143945.01E	334/26	Marked	NIL

In Area 3					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT	Markings / Type, Colour, Lighting (LGT)	Remarks
a	b	c	d	e	f
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.)	1. Satellite Imagery 2. Windsock Geographical Location, Elevation, Marking and Lighting <table><tr><th>Windsock Designation</th><th>Latitude Longitude</th><th>Height (FT)</th><th>Marked/ LGT</th></tr><tr><td>Windsock E: Abeam ATC</td><td>225852.15S 0143850.76E</td><td>304</td><td>Marked/ LGT</td></tr><tr><td>Windsock 27: Abeam THR</td><td>225834.43S 0143945.01E</td><td>302</td><td>Marked</td></tr></table>	Windsock Designation	Latitude Longitude	Height (FT)	Marked/ LGT	Windsock E: Abeam ATC	225852.15S 0143850.76E	304	Marked/ LGT	Windsock 27: Abeam THR	225834.43S 0143945.01E	302	Marked
Windsock Designation	Latitude Longitude	Height (FT)	Marked/ LGT											
Windsock E: Abeam ATC	225852.15S 0143850.76E	304	Marked/ LGT											
Windsock 27: Abeam THR	225834.43S 0143945.01E	302	Marked											

FYWB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

<i>Designations RWY NR</i>	<i>TRUE BRG</i>	<i>Dimensions of RWY (M)</i>	<i>Strength (PCN) and surface of RWY and SWY</i>	<i>THR coordinates RWY end coordinates THR geoid undulation</i>	<i>THR Elevation and highest elevation of TDZ of precision APPRWY</i>
1	2	3	4	5	6
09	071.58°	3 440 x 60	130/F/B/W/T Asphalt	225903.14S 0143752.23E GUND 96FT	THR 236FT TDZ 239FT
27	251.58°	3 440 x 60	130/F/B/W/T Asphalt	225828.55S 0143947.08E GUND 96FT	THR 315FT TDZ 313FT

<i>Designations RWY NR</i>	<i>Slope of RWY-SWY</i>	<i>SWY dimensions (M)</i>	<i>CWY dimensions (M)</i>	<i>Strip dimensions (M)</i>	<i>Dimensions of runway end safety areas</i>
1	7	8	9	10	11
09	RWY – 0.7% SWY - NIL	NIL	NIL	3 560 x 280	120 x 90
27	RWY – 0.7% SWY - NIL	NIL	NIL	3 560 x 280	120 x 90

<i>Designations RWY NR</i>	<i>Location and description of arresting system</i>	<i>OFZ</i>	<i>Remarks</i>
1	12	13	14
09	NIL	NIL	RESA Long Slope: 2.17% RESA Trans Slope: 0.2%
27	NIL	NIL	RESA Long Slope: 0.85% RESA Trans Slope: 1.3%

FYWB AD 2.13 DECLARED DISTANCES

<i>RWY Designator</i>	<i>TORA (M)</i>	<i>TODA(M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
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

<i>RWY Designator</i>	<i>APCH LGT type LEN INTST</i>	<i>THR LGT colour WBAR</i>	<i>VASIS (MEHT) PAPI</i>	<i>TDZ, LGT, LEN</i>	<i>RWY Centre line LGT length, spacing, colour, INTST</i>
1	2	3	4	5	6
09	CAT I 900 M LIH	Green	PAPI, Both/3° (30FT)	TDZ: 749.1M	3390 M, 15 M, white middle and red end
27	CAT II 900 M LIH	Green	PAPI, Both/3° (69FT)	TDZ: 762M	3390 M, 15 M, white middle and red end

<i>RWY Designator</i>	<i>RWY edge LGT LEN, spacing colour INTST</i>	<i>RWY End LGT colour WBAR</i>	<i>SWY LGT LEN (M) colour</i>	<i>Remarks</i>
1	7	8	9	10
09	3360 M, 60 M, white, LIH	Red	40 M Yellow and red	Non-precision APP
27	3360 M, 60 M, white, LIH	Red	40 M Yellow and red	Non-precision APP

FYWB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	<i>ABN/IBN location, characteristics, and hours of operation</i>	ABN: Abeam Centre RWY, FLG W G EV 2 SEC/ IBN: NIL
2.	<i>LDI location and LGT</i> <i>Anemometer location and LGT</i>	LDI: NIL Anemometer: AMS E 320 M from THR 27, lighted AMS C 1000 M from THR 09, lighted AMS W 200 M from THR 09, lighted
3.	<i>TWY edge lights, centre line lights and stop bars (if any)</i>	TWY edge lights are only available at intersection "C"

4.	Secondary power supply/switch-over time	Secondary power supply to all lighting at AD Switch over time: 15 SEC
5.	Remarks	NIL Aerodrome identification beacon Signalling lamp is located in the ATC tower 2 x 400kva Cummins generator sets, with a capacity of 5 000L diesel. The power is distributed to the Runway, taxiway, approach lighting, terminal building, hangars, PAPI lighting, ATC control tower, Meteorological equipment, fire station, VOR, Glideslope, Localizer and Receiver station.

FYWB AD 2.16 HELICOPTER LANDING AREA

1.	Coordinates TLOF or THR of FATO Geoid undulation	NIL
2.	TLOF and/or FATO elevation M/FT	NIL
3.	TLOF and FATO area dimensions, surface, strength, marking	NIL
4.	True BRG of FATO	NIL
5.	Declared distance available	NIL
6.	APP and FATO lighting	NIL
7.	Remarks	NIL

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

<i>Service designation</i>	<i>Call sign</i>	<i>Frequency</i>	<i>Hours of operation</i>	<i>Remarks</i>
1	2	3	4	5
Tower/APP	Walvis Bay Tower	122.5 MHz	TWR: MON-FRI: 0700 - 1500, SAT/SUN/Public Holidays: 0800-1500 APP: MON-FRI: 0500-1700	NIL
ATIS	Walvis Bay ATIS	127.0 MHz	H24	Fully operational 50NM radius around airport on this FREQ 127.0 MHz or TEL +264 81 3323509

FYWB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

<i>Type of aid, CAT of ILS/MLS (for VOR/ILS/MLS give VAR)</i>	<i>ID</i>	<i>Frequency</i>	<i>Hours of Operation</i>	<i>Position of transmitting antenna co-ordinates</i>	<i>Elevation of DME transmitting antenna</i>	<i>Remarks</i>
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
RNP APCH	N/A	1575.42 MHz	H24	N/A	N/A	Transmitting antennas are satellite based

FYWB AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

1.1 Hazard, Incident and Accident Reporting

All safety hazards, incidents and accidents are to be reported to FYWB fire station control room at +264 64 271 123 or the Safety & Environmental Officer on duty at +264 64 271 102/127 or emailed to walvisbaysafety@airports.com.na.

1.2 High Ground on APCH RWY27

- Terrain on approach runway 27 mountain with red and white painted reservoir atop.
- High ground 1, terrain on approach runway 27, published in the AIP approach charts.

1.3 Circuit Altitude

- Turbine-powered aircraft 2000 FT ALT.
- Reciprocating engine-powered aircraft 1500 FT ALT.

1.4 Reflective Jackets

- All pilots and crew operating at Walvis Bay International Airport must wear a lime green reflective jacket depicting their airline name on the rear of the jacket for safety reasons as well as easy identification.

1.5 New Aircraft Operating at Walvis Bay International Airport

- Aircraft operators intending to operate an aircraft for the first time at Walvis Bay International Airport must apply in writing via email to georgec@airports.com.na the Airport Manager to complete the new Aircraft Application form. Pilots may only operate the new aircraft upon approval by the Airport Manager. This assessment will also include a comparison of the aircraft ACN against the Airport airside Pavement PCN.

1.6 Airport Fees Administration

1.6.1 After Hour Operations

Request for ad hoc extension to hours of operation.

Applicant must apply in writing at least 48 hours in advance to the Airport Manager, who after consultation with service providers will approve or reject the request. Application must be submitted to wvboptions@airports.com.na

1.6.2 Landing/Parking and Passenger fees

All unscheduled and charter flights are to effect payment directly to NAC upon arrival and before departure and not to any third parties, payment can be done at the Apron office located on the ground floor of the terminal building.

2. Taxiing to and from stands

Standard Taxi Routes (Aircraft)

- a) Aircraft with outer main gear wheel span greater than > 6m make use of the following standard taxi routes:
 - Aircraft which are about to take-off on runway 09, may exit the cargo apron via intersection Bravo, via Alpha 4 to enter the runway to proceed west to threshold 09.
 - Aircraft which are about to take-off on runway 27, may exit the cargo apron via intersection Bravo, and Alpha 4 to enter the runway to proceed east to threshold 27.
 - Aircraft landing on runway 27 may proceed to intersection Alpha 4 and then Bravo to enter the cargo apron.
 - Aircraft landing on runway 09 can exit the runway using intersections Alpha 4 then Bravo to enter the cargo apron.
- b) Aircraft with main gear wheel span less than > 6M make use of the following standard taxi routes:
 - Aircraft which are about to take-off on runway 09, may exit the apron via intersection Bravo, via Alpha 4 or Alpha 5 to enter the runway to proceed west to threshold 09.
 - Aircraft which are about to take-off on runway 27, may exit the apron via intersection Bravo, Alpha Taxiway, Alpha 1, 2, 3 or 4 to enter the runway to proceed east to threshold 27.
 - Aircraft landing on runway 27 may proceed to intersection Alpha 4 and then Bravo to enter the cargo apron; or landing on runway 27 proceed to intersection Alpha 3 then Charlie to enter the passenger apron.

- Aircraft landing on runway 09 can exit the runway using intersections Alpha 4 then Bravo to enter the cargo apron, or Alpha 3 then Charlie onto passenger apron.
- c) Standard taxiway designations are contained under Appendix 20 to the aerodrome manual.
- d) Standard taxiway routes are presented as Appendix 21 in the aerodrome manual.

Note: Intersection TWY Delta and Echo located abeam the fuel farm, are permanently closed to traffic.

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

Once the helicopter enters the apron, ATC will instruct the Pilot to follow the direction of the Aircraft Marshallsers to an allocated parking position on the apron.

5. Apron – taxiing during winter conditions

Inbound Traffic:

Once aircraft enter the apron, ATC will instruct the Pilot to follow the directions of the Aircraft Marshallsers to an allocated parking position.

Departing IFR flights shall contact the TWR to obtain ATC clearance before commencing taxiing. Request for ATC clearance may take place at the earliest 10 minutes prior to engine start-up. Frequency 122.5 MHz is to be used in the period 0700 – 1500 UTC.

6. Taxiing – limitations

The separation distance between the runway and parallel taxiway does not allow simultaneous movement of landing and taxiing aircraft.

Taxiway Delta and Echo are closed permanently.

Standard taxiway routes exist for all aircraft above Code B via Taxiway Alpha 4 and onto Taxiway Bravo.

Passenger apron via Taxiway Charlie, adjacent to the passenger terminal building, is closed to traffic subjected to prior approval from Airport Manager.

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

School and training flights must only be made after permission has been obtained from the ATC.

8. Helicopter traffic - Limitation

Non-scheduled public air traffic with helicopters is permitted only after prior approval from the Walvis Bay International Airport Administration. Any contact concerning the above shall be made via the handling company or directly to the airport during the hours of service and, if possible, not later than the day before the flight is to be carried out.

Any request for approval of traffic shall contain the following information:

- a) Owner/Operator
- b) Type of helicopter, registration/call sign
- c) Date, arrival time/departure time, destination(s).

Furthermore, other details relevant to the evaluation for the request shall be given as required.

9. Removal of disabled aircraft from runways

The registered owner or aircraft operator will always retain complete responsibility for the removal of the disabled aircraft. All airline operators at FYWB are expected to have an aircraft recovery plan. For non-airlines operators at FYWB, the pilot or aircraft owner is responsible for the immediate removal and or disposal of the disabled aircraft.

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

1. Model Flying

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

2. Paragliding

Paragliding activities in dunes near Lang strand throughout the year.

3. SECURING OF LIGHT AIRCRAFT

There are no designated stands for the parking of small aircraft, pilots are strictly requested to adhere to the marshalling signals from the marshaller.

No aircraft mooring points are available at FYWB, aircraft mooring weights available:

The equipment available is listed below:

- 4 x 43 KG pairs;
- 4 x 90 KG pairs;
- 4 x 92 KG pairs;
- 4 x 115 KG
- 1 x mobile trolley (for transportation of mooring equipment only)

The mooring equipment are stored at the now defunct temporary passenger terminal building structure, on airside located west of the passenger terminal building.

Pilots requiring mooring weights shall inform the aircraft marshaller on duty at the apron or the Airport Rescue and Fire Fighting Services Control Room.

Note! – The Pilot in Command (PIC) shall at own discretion select the weights for the type of aircraft in operation at the time.

Once the mooring weights have been used, it is the responsibility of the aircraft operator to return the mooring weight equipment to the designated storage area.

4. LIMITATIONS ON THE USE OF THE AERODROME

Simultaneous Movements

The separation distance between the runway and the taxiway does not allow simultaneous movements of landing and taxiing aircraft.

Taxiway Restrictions

Taxiways Delta and Echo are closed permanently.

Standard taxiway routes exist for all aircraft above Code B through Taxiway Alpha 4 and onto Taxiway Bravo.

Passenger apron through Taxiway Charlie, adjacent to the passenger terminal building, is closed to traffic subject to prior approval from the Airport Manager.

Other Restrictions

No night operations, outside of natural light hours, are allowed at Walvis Bay International Airport.

Pre-Flight Altimeter Checkpoint

The apron at Walvis Bay International Airport is not provided with Pre-Flight Altimeter checkpoint(s). The pre-flight altimeter checks are currently conducted on any position on the Apron. Pilots obtain the QNH from ATC, which is obtained from the Pressure Sensor of Meteorological Services.

Apron Markings

Airport Apron lead in lines is not commensurate with aircraft operations. There are no aircraft stand markings on FYWB cargo or passenger apron. Pilots are to follow aircraft marshaller instructions.

FYWB AD 2.24 CHARTS RELATED TO WALVIS BAY

	Page
Aerodrome Chart – ICAO	AD 2-17
Area Chart – ICAO (Reserved)	AD 2-19
Instrument Approach Chart – ICAO	AD 2-21
Instrument Approach Chart – ICAO VOR RWY 09	AD 2-23
Data code FYWB VOR RWY 09	AD 2-24
Instrument Approach Chart – ICAO VOR RWY 27	AD 2-25
Data code FYWB VOR RWY 27	AD 2-26
Instrument Approach Chart – ICAO RNP RWY 09	AD 2-27
Data code FYWB RNP RWY 09	AD 2-28
Instrument Approach Chart – ICAO RNP RWY 27	AD 2-29
Data code FYWB RNP RWY 27	AD 2-30
CTR Chart	AD 2-31
VFR Entry/Exit points	AD 2-32
VFR Routes 1,2,3,4 Chart	AD 2-33
VFR Routes narrative	AD 2-34
Namib Naukluft Desert Special Rules Area	AD 2-35
Aerodrome Obstacle Chart – ICAO	AD 2-37

AERODROME CHART-ICAO

22°58'45"S
014°38'49"E

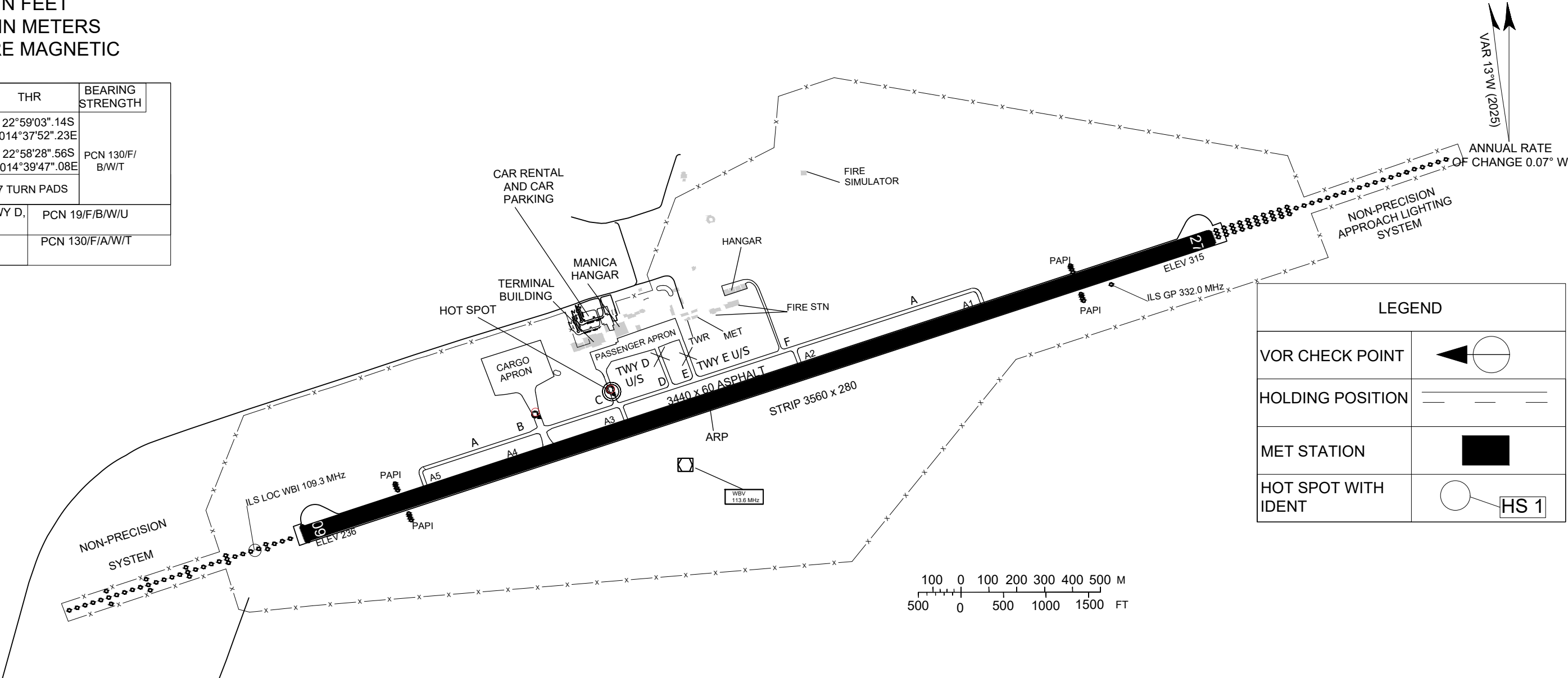
ELEV 316 FT

WALVIS BAY TWR 122.5
WALVIS BAY ATIS 127.0

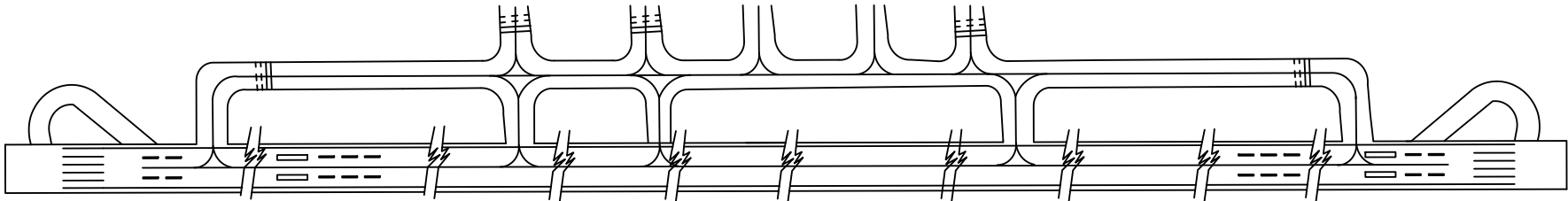
WALVIS BAY/
WALVIS BAY INTERNATIONAL AIRPORT

ELEVATION IN FEET
DIMENSION IN METERS
BEARING ARE MAGNETIC

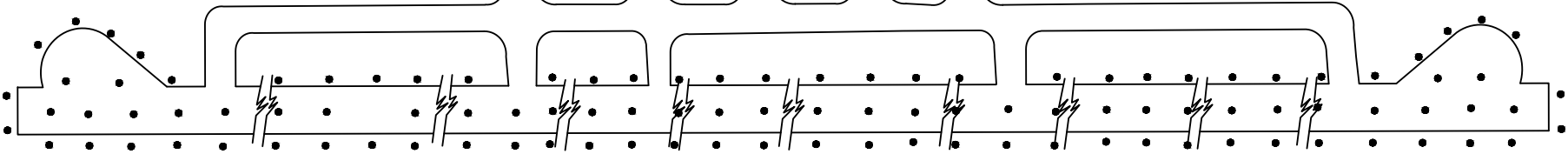
RWY	DIRECTION	THR	BEARING STRENGTH
09	071°	22°59'03".14S 014°37'52".23E	PCN 130/F/ B/W/T
27	251°	22°58'28".56S 014°39'47".08E	
RWY 09 AND RWY 27 TURN PADS			
TWY A, TWY C, TWY D, TWY E		PCN 19/F/B/W/U	
TWY B		PCN 130/F/A/W/T	



MARKING AIDS RWY 09/27 AND EXIT TWY



LIGHTING AIDS RWY 09/27 AND EXIT TWY



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Area Chart – ICAO (Reserved)

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Instrument Approach Chart – ICAO (Reserved)

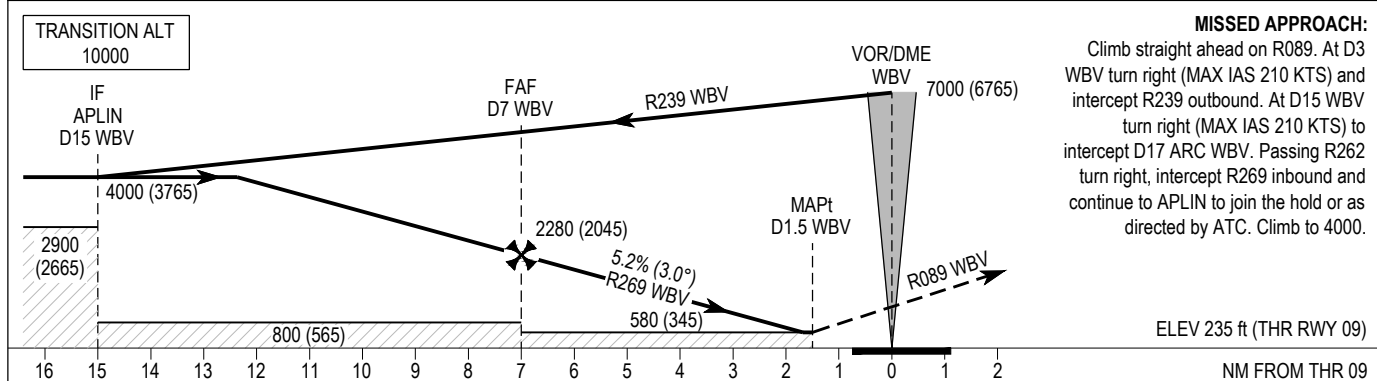
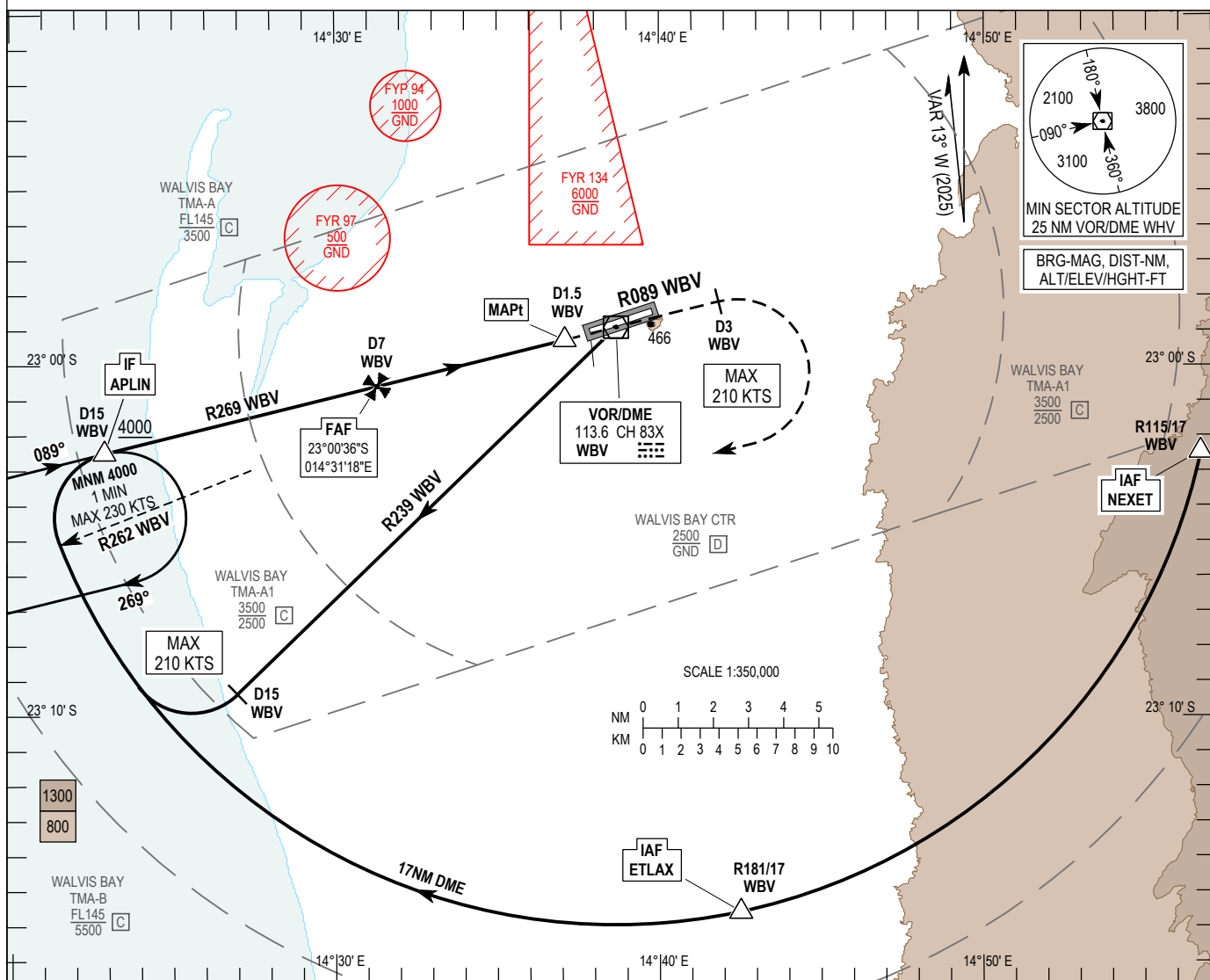
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INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV 316 ft
HEIGHTS RELATED TO
THR RWY 09 - ELEV 235 ft

TWR 122.50
ATIS 127.00

WALVIS BAY (FYWB)
VOR RWY 09
(ACFT 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 directed by ATC. Climb to 4000.

ELEV 235 ft (THR RWY 09)

OCA (H)	A	B	C	D	NOTES: 1. WBV DME required. 2. GNSS permitted in lieu of DME. Reference waypoint WBV VOR.															
Straight-in	580 (345)				Recommended Profile on Final Approach (3.0° / 5.2%)															
Visual Manoeuvring South of RWY (Heights AAL) Circling to the North Prohibited	870 (554)	940 (624)	1160 (844)	1240 (924)	DIST WBV DME		6		5		4		3		2					
					ALT / HT (ft)		1960 (1725)		1640 (1405)		1320 (1085)		1000 (765)		680 (445)					
					Ground Speed				kts		80		100		120		140		160	
					Descent rate gradient - 5.2% (3.0°) 320 ft/NM				ft / min		430		530		640		740		850	

VOR RWY09 Approach

Descent Angle:	5.24% (3.00°)			
Fix	IAF NEXET (D17.0 WBV)	IAF ETLAX (D17.0 WBV)	IF APLIN (D15.0 WBV)	FAF - (D7.0 WBV)
Fix Coordinates	230227.8 S 0145641.8 E	231536.5 S 0144230.2 E	230230.4 S 0142253.4 E	230036.2 S 0143117.8 E
Fix Formation Bearing (°T)	102.03 WBV	168.03 WBV	256.18 WBV	256.18 WBV
Fix Formation Distances	17.00 WBV	17.00 WBV	15.00 WBV	7.00 WBV

Descent Angle:	5.24% (3.00°)			
Fix	MAPt - (D1.5 WBV)	TP - (D3.0 WBV)	TP - (D15.0 WBV)	VOR/DME WBV -
Fix Coordinates	225917.2 S 0143705.4 E	225812.4 S 0144150.0 E	230922.5 S 0142658.0 E	225855.6 S 0143840.5 E
Fix Formation Bearing (°T)	256.18 WBV	076.18 WBV	226.00WBV	-
Fix Formation Distances	1.50 WBV	3.00 WBV	15.00 WBV	-

Hold Identification

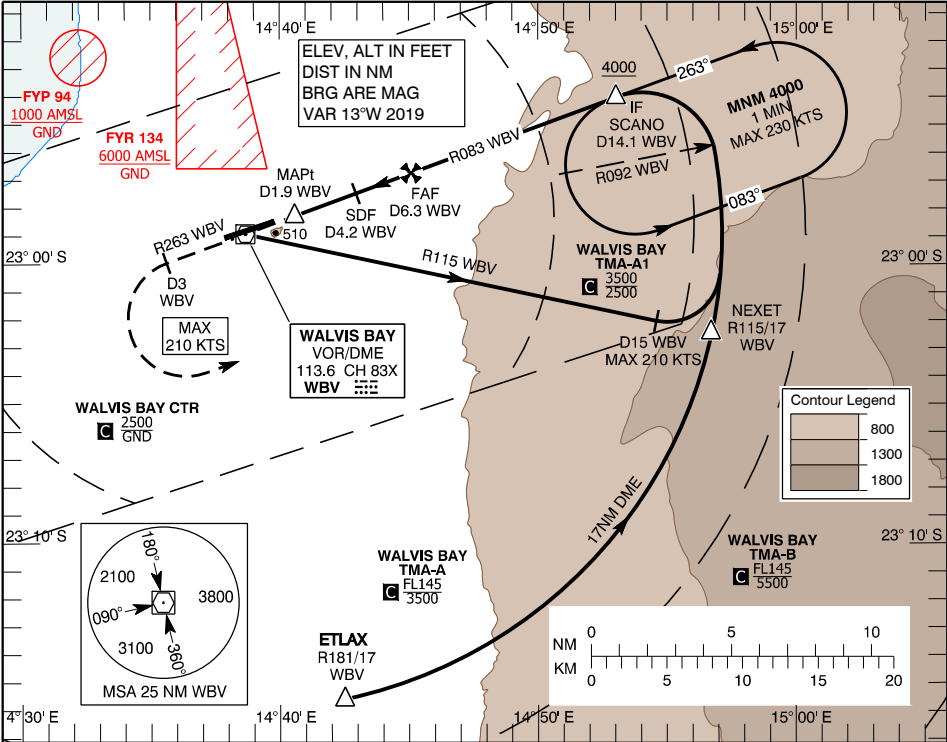
Holding Fix	Latitude (S) / Longitude (E)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Level / Altitude (FL/ft)	Maximum Holding Level / Altitude (FL/ft)	Outbound Time (min)	Direction of Turn
APLIN D15 WBV	230230.4 / 0142253.4	076.3	089	230	+A4000	-	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)**

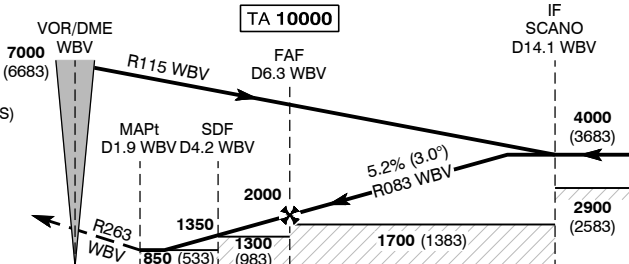


MISSED APPROACH:

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

NM VOR/DME WBV



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:

- WBV DME required.
- GNSS permitted in lieu of DME. Reference waypoint WBV VOR.

NO CIRCLING
085° 265°
Circling to the NORTH prohibited

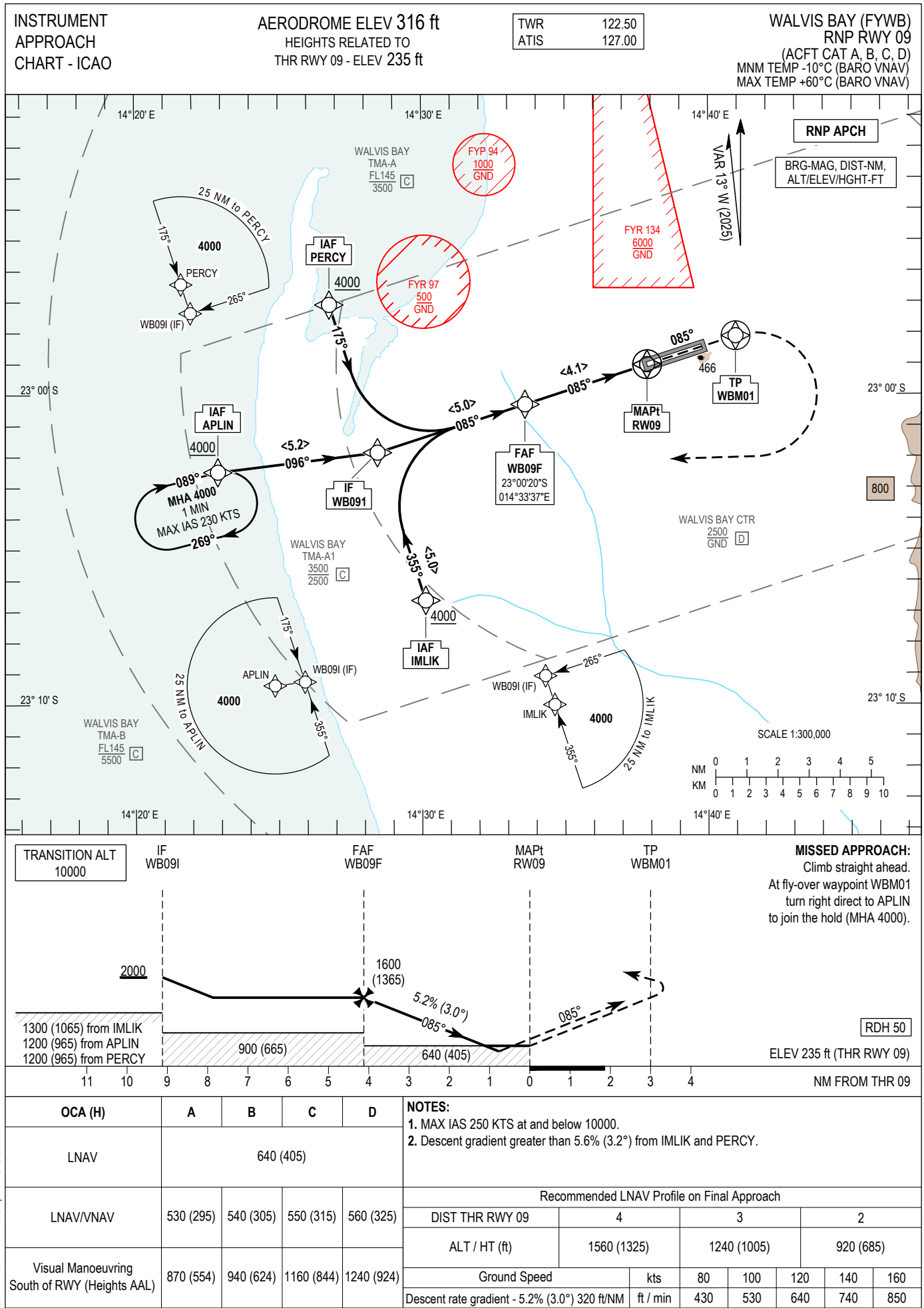
CHANGES: NEW

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



RNP RWY09 via IMLIK

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit	Speed Limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	IMLIK	230639.1 / 0143008.1	IF	-	-	-	- / +A4000	-	-	-
RNP APCH	WB09I	230152.9 / 0142827.5	TF	-	342.0 / 355	5.0	- / +A2000	-	-	-
RNP APCH	WB09F	230019.9 / 0143336.8	TF	Fly-By	072.0 / 085	5.0	-	-	-	Turn R
RNP APCH	RW09	225903.1 / 0143752.2	TF	Fly-Over	072.0 / 085	4.1	-	-	3.00 / 50	-
RNP APCH	WBM01	225807.4 / 0144057.8	CF	Fly-Over	072.0 / 085	-	-	-	-	082° / D2.3 WBV
RNP APCH	APLIN	230230.4 / 0142253.4	DF	Fly-By	-	-	-	230	-	Turn R

RNP RWY09 via APLIN

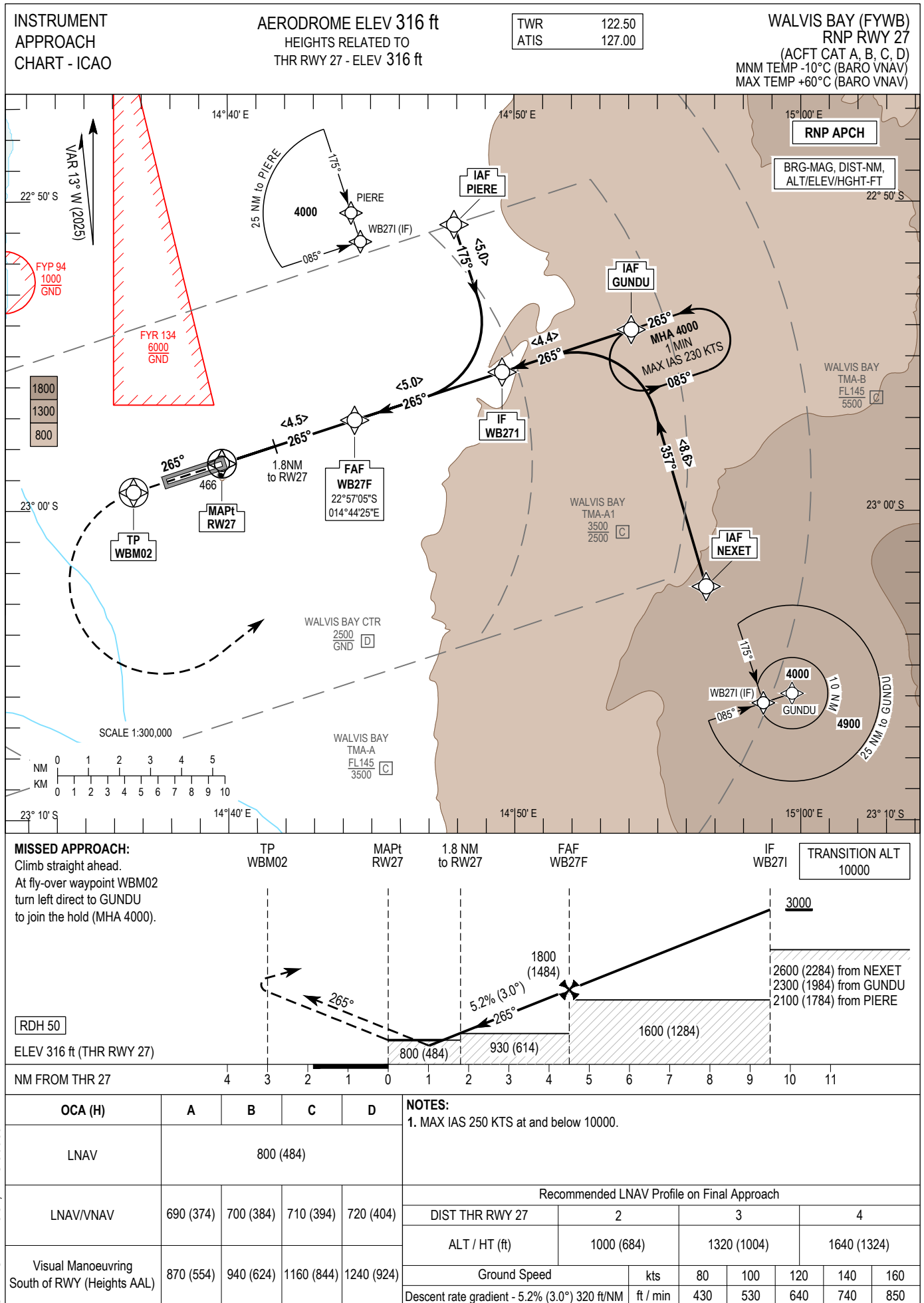
Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit	Speed Limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	APLIN	230230.4 / 0142253.4	IF	-	-	-	- / +A4000	-	-	-
RNP APCH	WB09I	230152.9 / 0142827.5	TF	-	083.1 / 096	5.2	- / +A2000	-	-	-
RNP APCH	WB09F	230019.9 / 0143336.8	TF	Fly-By	072.0 / 085	5.0	-	-	-	Turn L
RNP APCH	RW09	225903.1 / 0143752.2	TF	Fly-Over	072.0 / 085	4.1	-	-	3.00 / 50	-
RNP APCH	WBM01	225807.4 / 0144057.8	CF	Fly-Over	072.0 / 085	-	-	-	-	082° / D2.3 WBV
RNP APCH	APLIN	230230.4 / 0142253.4	DF	Fly-By	-	-	-	230	-	Turn R

RNP RWY09 via PERCY

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit	Speed Limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	PERCY	225706.6 / 0142647.1	IF	-	-	-	- / +A4000	-	-	-
RNP APCH	WB09I	230152.9 / 0142827.5	TF	-	162.0 / 175	5.0	- / +A2000	-	-	-
RNP APCH	WB09F	230019.9 / 0143336.8	TF	Fly-By	072.0 / 085	5.0	-	-	-	Turn L
RNP APCH	RW09	225903.1 / 0143752.2	TF	Fly-Over	072.0 / 085	4.1	-	-	3.00 / 50	-
RNP APCH	WBM01	225807.4 / 0144057.8	CF	Fly-Over	072.0 / 085	-	-	-	-	082° / D2.3 WBV
RNP APCH	APLIN	230230.4 / 0142253.4	DF	Fly-By	-	-	-	230	-	Turn R

Hold Identification

Holding Fix	Latitude (S) / Longitude (E)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Level / Altitude (FL/ft)	Maximum Holding Level / Altitude (FL/ft)	Outbound Time (min)	Direction of Turn
APLIN	230230.4 / 0142253.4	076.0	089	230	+A4000	-	1	R



RNP RWY27 via GUNDU

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit	Speed Limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	GUNDU	225409.3 / 0145404.8	IF	-	-	-	- / +A4000	-	-	-
RNP APCH	WB27I	225531.6 / 0144934.5	TF	N	251.8 / 265	4.4	- / +A3000	-	-	-
RNP APCH	WB27F	225704.7 / 0144425.4	TF	N	252.0 / 265	5.0	-	-	-	-
RNP APCH	RW27	225828.6 / 0143947.1	TF	Y	252.0 / 265	4.5	-	-	3.00 / 50	-
RNP APCH	WBM02	225924.4 / 0143641.6	CF	Y	252.0 / 265	-	-	-	-	268° / D1.9 WBV
RNP APCH	GUNDU	225409.3 / 0145404.8	DF	N	-	-	-	230	-	Turn L

RNP RWY27 via NEXET

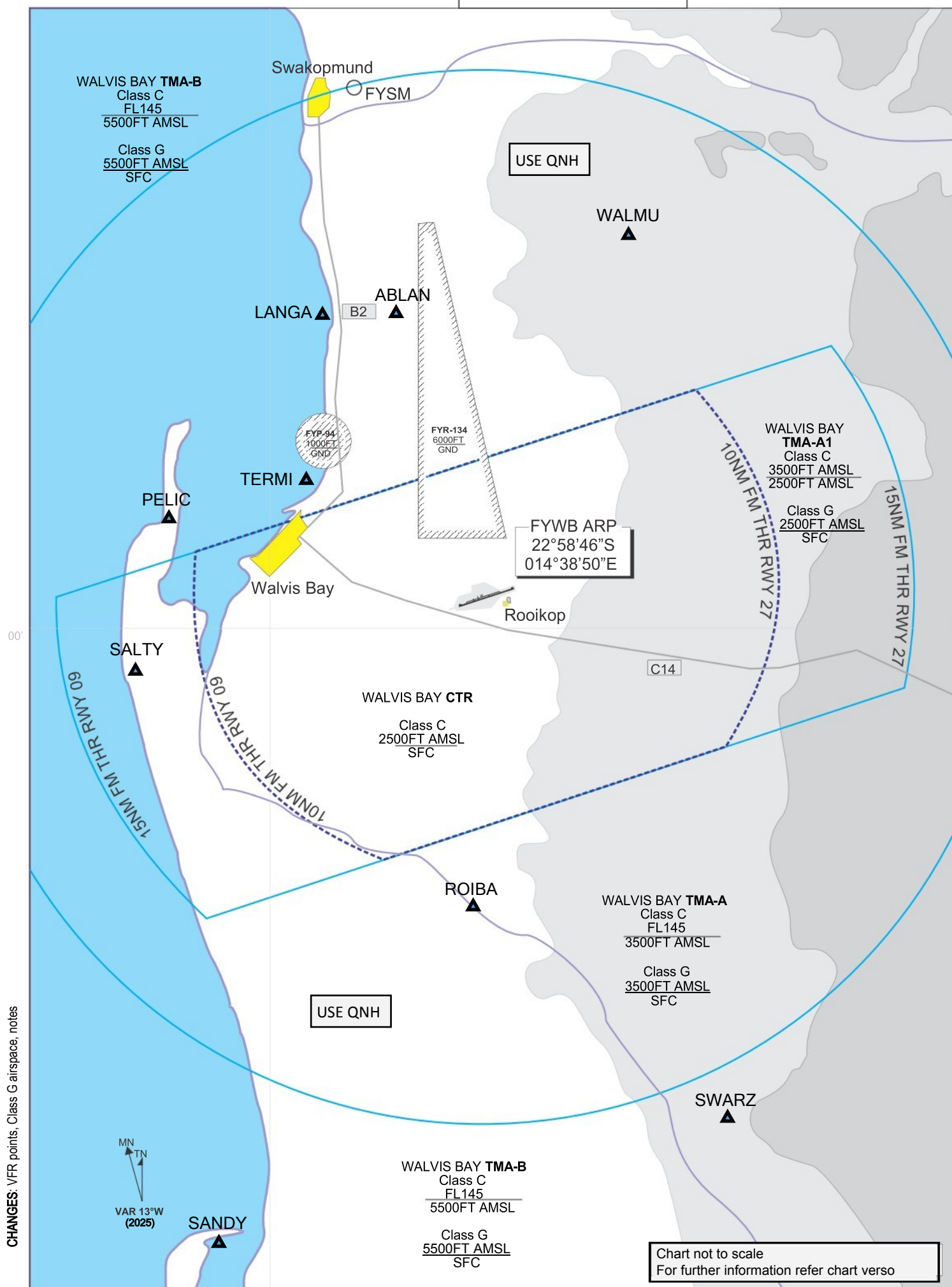
Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit	Speed Limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	NEXET	230227.8 / 0145641.8	IF	-	-	-	- / +A4000	-	-	-
RNP APCH	GUNDU	225409.3 / 0145404.8	TF	N	343.7 / 357	8.6	-	-	-	-
RNP APCH	WB27I	225531.6 / 0144934.5	TF	N	251.8 / 265	4.4	- / +A3000	-	-	Turn L
RNP APCH	WB27F	225704.7 / 0144425.4	TF	N	252.0 / 265	5.0	-	-	-	-
RNP APCH	RW27	225828.6 / 0143947.1	TF	Y	252.0 / 265	4.5	-	-	3.00 / 50	-
RNP APCH	WBM02	225924.4 / 0143641.6	CF	Y	252.0 / 265	-	-	-	-	268° / D1.9 WBV
RNP APCH	GUNDU	225409.3 / 0145404.8	DF	N	-	-	-	230	-	Turn L

RNP RWY27 via PIERE

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit	Speed Limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	PIERE	225045.32S /	IF	-	-	-	- / +A4000	-	-	-
RNP APCH	WB27I	225531.6 / 0144934.5	TF	N	162.0 / 175	5.0	- / +A3000	-	-	-
RNP APCH	WB27F	225704.7 / 0144425.4	TF	N	252.0 / 265	5.0	-	-	-	Turn R
RNP APCH	RW27	225828.6 / 0143947.1	TF	Y	252.0 / 265	4.5	-	-	3.00 / 50	-
RNP APCH	WBM02	225924.4 / 0143641.6	CF	Y	252.0 / 265	-	-	-	-	268° / D1.9 WBV
RNP APCH	GUNDU	225409.3 / 0145404.8	DF	N	-	-	-	230	-	Turn L

Hold Identification

Holding Fix	Latitude (S) / Longitude (E)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Level / Altitude (FL/ft)	Maximum Holding Level / Altitude (FL/ft)	Outbound Time (min)	Direction of Turn
GUNDU	225409.3 / 0145404.8	251.8	265	230	+A4000	-	1	L



CHANGES: VFR points, Class G airspace, notes

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

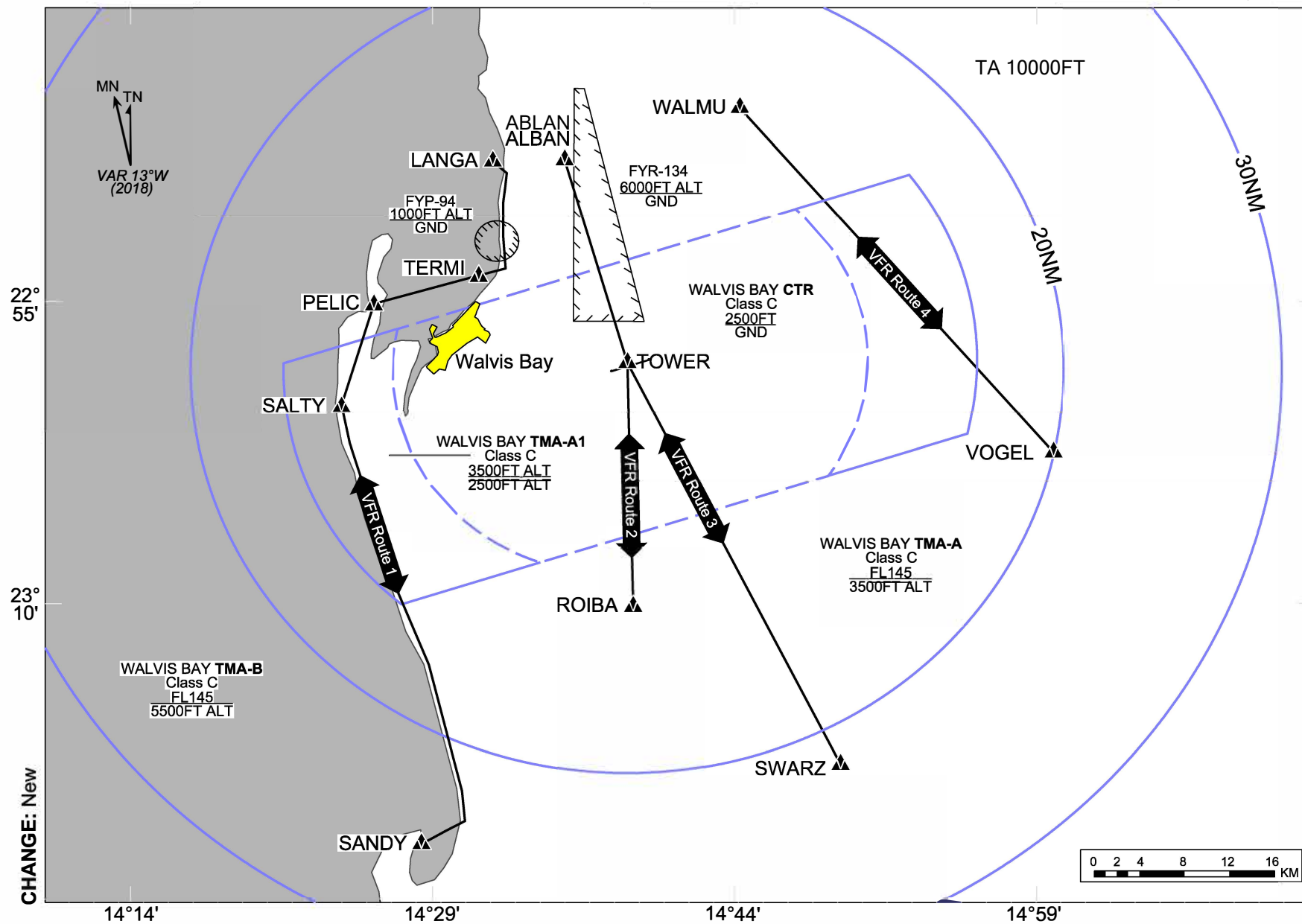
Waypoints must be spoken as:

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

14°14'
NAMIBIA

14°29'

14°44'

14°59'

AREA

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.)

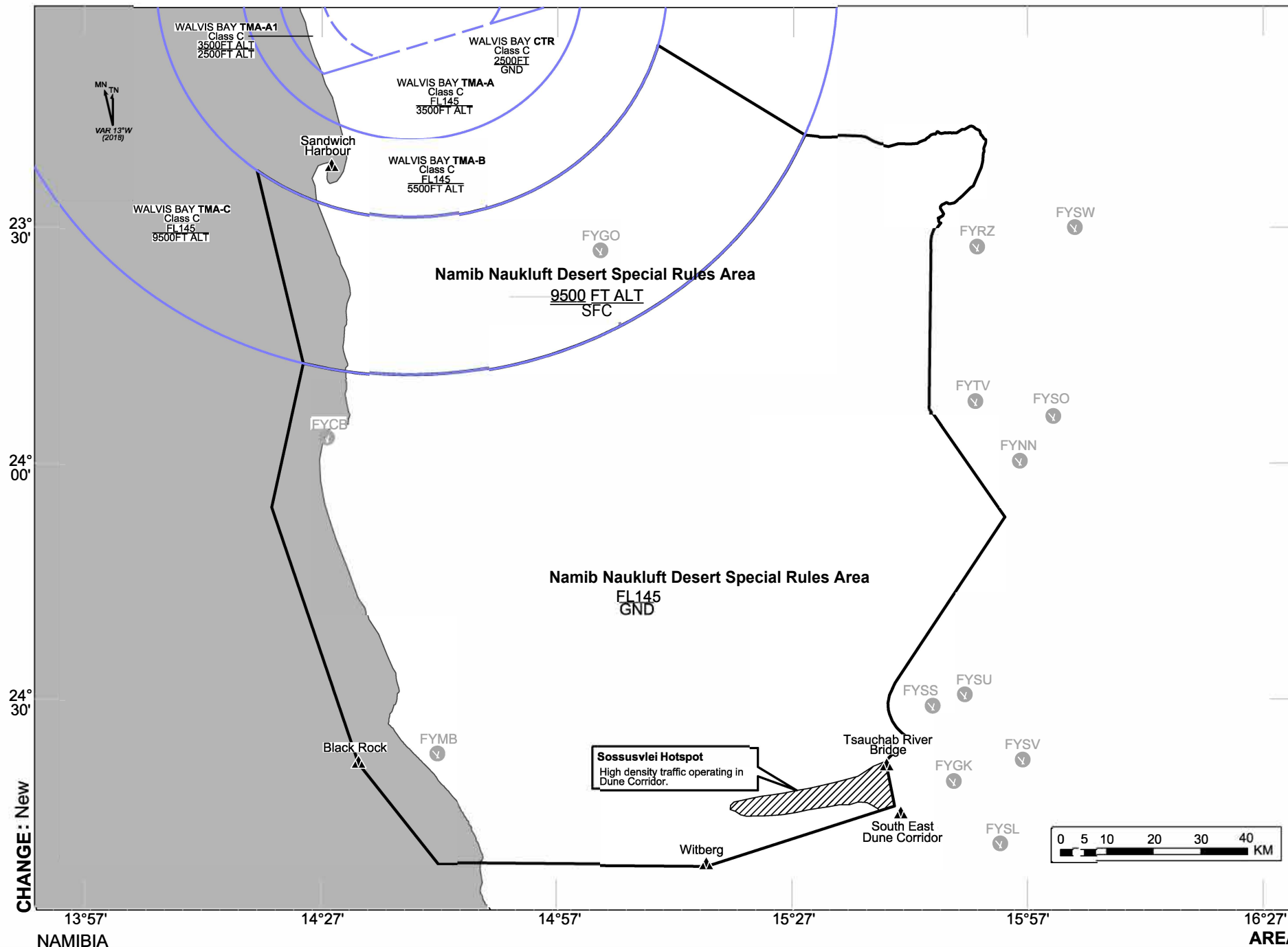
ENTRY / EXIT: WALMU (Walmund Power station 22 46 S 014 44 16 E)

Aircraft must monitor FYWB TWR 122.50MHz.

AREA
CHART

NAMIB NAUKLUFT DESERT SPECIAL RULES AREA

WALVIS BAY (FYWB)



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WALVIS BAY/ Walvis Bay Intl Airport

RWY 09 / 27

RWY 09 /27

DECLARED DISTANCES		
RWY 09	TAKE - OFF RUN AVAILABLE	RWY 27
3440	TAKE - OFF DISTANCE AVAILABLE	3440
3440	ACCELERATE STOP DISTANCE AVAILABLE	3440
3440	LANDING DISTANCE AVAILABLE	3440

Profile View Details:

- Vertical Scale: 1:1500
- Horizontal Axis: 3740, 3440, 3440, 3740, 4040, 4340, 4640
- Vertical Axis: 30, 60, 90, 120, 150, 180
- Slope: 1.2%
- Obstacle: 112.2

Plan View Details:

- Runway: 3440 m X 60 m ASPHALT
- Heading: 072°
- Heading: 252°
- Obstacle: 112.2

Legend:

LEGEND	
IDENTIFICATION NUMBER	①
TERRAIN CONTOUR	
TERRAIN PENETRATING OBSTACLE PLANE	

Horizontal Scale: 1 : 15000

Horizontal Axis (METRES): 350, 175, 0, 350, 700, 1050, 1400, 1750

Horizontal Axis (FEET): 1000, 500, 0, 1000, 2000, 3000, 4000

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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	223632.00S 0170444.00E
2.	Direction and distance from (city)	5km South of Windhoek central business district.
3.	Elevation/reference temperature	5 574 FT and NIL temperature
4.	Geoid undulation at AD ELEV PSN	105 FT
5.	MAG VAR/annual change	12° W (2016)/0.09° decreasing
6.	Name of aerodrome operator, address, telephone, telefax numbers, e-mail address, AFS address and, if available, website address	Namibia Airports Company Limited Eros Airport Private Bag 13357 WINDHOEK Ms. Maria Hamunyela: Airport Manager Contact details: Tel: +264 61 2955501 Telefax: NIL Cell: +264 811273965 (during or after hours) Email: Hamunyelam@airports.com.na Website: www.airports.com.na
7.	Types of traffic permitted (IFR/VFR)	IFR /VFR
8.	Remarks	NIL

FYWE AD 2.3 OPERATIONAL HOURS

1.	<i>AD administration</i>	MON – FRI: 0400 - 1900 SAT: 0400 – 1800 SUN: 0400 – 1900
2.	<i>Customs and immigration</i>	As AD administration
3.	<i>Health and sanitation</i>	As AD administration
4.	<i>Aeronautical Information Service (AIS) briefing office</i>	MON – FRI: 0300 – 1900 SAT: 0300 – 1800 SUN: 0400 – 1900
5.	<i>ATS reporting office (ARO)</i>	As AD administration
6.	<i>MET briefing office</i>	As AD administration
7.	<i>ATS</i>	As AD administration
8.	<i>Fuelling</i>	MON – FRI: 0400 - 1800 SAT & SUN: 0400 - 1400
9.	<i>Handling</i>	As AD Administration
10.	<i>Security</i>	H24
11.	<i>De-icing</i>	NIL
12.	<i>Remarks</i>	NAMRA/Customs and Excise Contact Details Tel: +264 61 254233 Cell: +264 81 2514347 Immigration Contact Details Tel: +264 61 232282 Cell: +264 81 1278881/+264 81 2064910 Aeronautical Information Services Contact Details Tel: +264 61 702080/1/3 Fax: +264 61 702088 Meteorological Services Contact Details Tel: +264 61 301131 Cell: +264 81 2844120 Air Traffic Services Contact Details Tel: +264 61 702090/702490 Cell: +264 81 2307149

FYWE AD 2.4 HANDLING SERVICES AND FACILITIES

1.	<i>Cargo-handling facilities</i>	Manual Forklift Capacity 1000kg, x2 Cargo Dolley's, Cargo Cart, Cargo Cooler and weighing/scale machine 600kg
2.	<i>Fuel/oil types</i>	Jet A1 and Avgas
3.	<i>Fuelling facilities/capacity</i>	Bowser truck Jet A1 capacity of 18 500L and Bowser truck AVGAS capacity of 7000L
4.	<i>De-icing facilities</i>	NIL
5.	<i>Hangar space for visiting aircraft</i>	NIL
6.	<i>Repair facilities for visiting aircraft</i>	West Air/Aviation Centre
7.	<i>Remarks</i>	Central Oil Namibia (PTY) LTD PO Box 555025, Windhoek, Namibia Tel: +264 81 124 1881 E-mail: robbybeukes@gmail.com robertb@con-aviation.com

FYWE AD 2.5 PASSENGER FACILITIES

1.	<i>Hotels</i>	Near the AD and in the city
2.	<i>Restaurants</i>	On the AD and in the city
3.	<i>Transportation</i>	Taxi service and Car hire
4.	<i>Medical facilities</i>	First aid, Ambulance on AD and Hospital in the City
5.	<i>Bank and post office</i>	In the city
6.	<i>Tourist office</i>	In the city
7.	<i>Remarks</i>	NIL

FYWE AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	<i>AD category for fire fighting</i>	CAT 5
2.	<i>Rescue equipment</i>	2x Rescue Vehicles FT1: 12 000 Litres water /1 600 Litres foam / 250 KG dry chemical powder FT2: 12 500 Litres water /1 500 Litres foam / 250 KG dry chemical powder
3.	<i>Capability for removal of disabled aircraft</i>	NIL
4.	<i>Remarks</i>	Coordinator for removal of disabled aircraft: Johannes Vries Chief ARFF Tel: +264 61 295 5510 Mobile: +264 81 145 6848 Email: VriesJ@airpors.com.na

FYWE AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	<i>Types of clearing equipment</i>	NIL
2	<i>Clearance priorities</i>	NIL
3	<i>Remarks</i>	NIL

FYWE AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	<i>Apron designation, surface and strength</i>	Apron Asphalt 6/F/D/Y/T Apron Concrete 7/R/D/Y/T Apron Concrete 3/R/D/Y/T																											
2.	<i>Taxiway designation, width, surface and strength</i>	Alpha 15 M Asphalt 7/F/D/Y/T Bravo 15 M Asphalt 7/F/D/Y/T Charlie 15 M Asphalt 7/F/D/Y/T Delta 15 M Asphalt 7/F/D/Y/T Echo 15 M Asphalt 7/F/D/Y/T Hotel 15 M Asphalt 7/F/D/Y/T																											
3.	<i>Altimate checkpoint location and elevation</i>	Location: At Apron Note: All Aircraft parking stands are designated pre-flight altimeter check locations. <table> <tr> <th>Aircraft Stand Number</th><th>Geographical Coordinates of centre point</th><th>Elevation</th></tr> <tr> <td>A1:</td><td>223603.83S 0170449.85E</td><td>5535 FT</td></tr> <tr> <td>A2:</td><td>223605.71S 0170450.21E</td><td>5535 FT</td></tr> <tr> <td>A3:</td><td>223607.77S 0170450.57E</td><td>5535 FT</td></tr> <tr> <td>A4:</td><td>223604.74S 0170447.91E</td><td>5535 FT</td></tr> <tr> <td>A5:</td><td>223605.58S 0170448.06E</td><td>5535 FT</td></tr> <tr> <td>A6:</td><td>223606.44S 0170448.22E</td><td>5535 FT</td></tr> <tr> <td>A7:</td><td>223607.68S 0170448.44E</td><td>5535 FT</td></tr> <tr> <td>A8:</td><td>223608.68S 0170448.63E</td><td>5535 FT</td></tr> </table>	Aircraft Stand Number	Geographical Coordinates of centre point	Elevation	A1:	223603.83S 0170449.85E	5535 FT	A2:	223605.71S 0170450.21E	5535 FT	A3:	223607.77S 0170450.57E	5535 FT	A4:	223604.74S 0170447.91E	5535 FT	A5:	223605.58S 0170448.06E	5535 FT	A6:	223606.44S 0170448.22E	5535 FT	A7:	223607.68S 0170448.44E	5535 FT	A8:	223608.68S 0170448.63E	5535 FT
Aircraft Stand Number	Geographical Coordinates of centre point	Elevation																											
A1:	223603.83S 0170449.85E	5535 FT																											
A2:	223605.71S 0170450.21E	5535 FT																											
A3:	223607.77S 0170450.57E	5535 FT																											
A4:	223604.74S 0170447.91E	5535 FT																											
A5:	223605.58S 0170448.06E	5535 FT																											
A6:	223606.44S 0170448.22E	5535 FT																											
A7:	223607.68S 0170448.44E	5535 FT																											
A8:	223608.68S 0170448.63E	5535 FT																											
4.	<i>VHF omnidirectional radio range (VOR) checkpoints</i>	NIL																											

5.	INS checkpoints	NIL			
6.	Remarks	Taxiway Holding Positions			
		Holding Position	Coordinates	Elevation(m)	
		A	223640.74S 0170451.98E	1728	
		B	223649.22S 0170452.11E	1699	
		C	223620.48S 0170444.69E	1721	
		D	223610.18S 0170442.97E	1718	
		E	223550.92S 0170439.76E	1713	
		H	223559.42S 0170445.93E	1715	
		Aircraft Stand	Design Aircraft	Surface Type	Pavement Strength
		A1	ERJ145	Asphalt	6/F/D/Y/T
		A2	ERJ145	Asphalt	6/F/D/Y/T
		A3	Falcon 7x	Asphalt	6/F/D/Y/T
		A4	Helicopter	Asphalt	6/F/D/Y/T
		A5	Helicopter	Asphalt	6/F/D/Y/T
		A6	Helicopter & Fixed Wing (Code A)	Asphalt	6/F/D/Y/T
		A7	Fixed Wing (Code A)	Asphalt	6/F/D/Y/T
A8	Fixed Wing (Code A)	Asphalt	6/F/D/Y/T		
.....	(Code A)				

FYWE AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	Use of aircraft stand ID signs, TWY guidelines and visual docking/ parking guidance system of aircraft stands	No Aircraft stand ID Signs provided. Taxiing guidance signs at all intersections with TWY and RWY markings at all holding positions. No visual docking system provided. Parking of ACFT as per the Marshaller guidance to the aircraft stands.		
2.	RWY and TWY markings and LGT	RWY/TWY	Markings	LGT
		RWY (01/19)	Designation, Centreline, Threshold, Aiming Point Touchdown Zone	Edge LGT End LGT
		RWY (09/27)	Designation, Centreline	NIL

		TWY (ALPHA)	Centreline, Holding Position	NIL
		INT (BRAVO)	Centreline, Holding Position	NIL
		INT (Charlie)	Centreline, Holding Position	NIL
		INT (DELTA)	Centreline, Holding Position	Edge LGT
		INT (ECHO)	Centreline	NIL
		INT (FOXTROT)	Centreline	NIL
		INT (GOLF)	Centreline	NIL
		INT (HOTEL)	Centreline	NIL
3.	Stop bars	NIL		
4.	Other runway protection measures	NIL		
5.	Remarks	NIL		

FYWE AD 2.10 AERODROME OBSTACLES

<i>In Area 2b</i>					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT (FT)	Markings/ Type, colour, lighting (LGT)	Remarks
a	b	c	d	e	f
AUASLIT	Pole	223642.00S 0170512.90E	5623/44.3	LGT	Transitional 27
FLOODLIGHT 2:	Pole	223625.60S 0170529.70E	5692/104.98	NIL	Transitional 01/19
FLOODLIGHT 3:	Pole	223630.10S 0170529.10E	5689/104.98	NIL	Transitional 01/19
FLOODLIGHT 4:	Pole	223629.40S 0170525.00E	5692/104.98	NIL	Transitional 01/19
MNC MAST:	Tower	223613.50S 0170601.90E	5712/87.20	NIL	Inner Horizontal
MTC CIMBEBASIA	Tower	223738.40S 0170453.60E	5709/78.1	Marked LGT	Inner Horizontal Approach 01 Take Off Climb
MTC STADIUM	Tower	223638.40S 0170529.40E	5666/81.82	Marked LGT	Approach 27 Inner Horizontal
TELECOM TOWER:	Tower	223806.80S 0170435.10E	5764/90.97	LGT	Inner Horizontal
TREE ANT MAST:	Tower	223609.20S 0170701.50E	5810/52.92	LGT	Inner Horizontal

In Area 2c					
OBST ID/ Designation	OBST Type	OBST Position	ELEV/HGT (FT)	Markings /Type, Colour, lighting (LGT)	Remarks
a	b	c	d	e	f
Antenna Mast 1	Equipment	223637.80S 0170456.10E	5653/83.66	LGT	Transitional 01/19 Transitional 09/27
Antenna Mast 2	Equipment	223637.90S 0170456.10E	5649/83.66	NIL	Transitional 01/19 Transitional 09/27
Antenna Mast 3	Equipment	223637.10S 0170456.10E	5649/83.66	NIL	Transitional 01/19 Transitional 09/27
Antenna Mast 4	Equipment	223637.10S 0170456.20E	5649/83.66	NIL	Transitional 01/19 Transitional 09/27
Antenna Mast 5	Equipment	223638.00S 0170456.20E	5646/83.66	NIL	Transitional 01/19 Transitional 09/27
Antenna at Olympia	Tower	223624.24S 0170604.83E	5666/72.18	LGT	Inner Horizontal Approach 27
AP MTC TWR	Tower	223637.10S 0170456.10E	5646/80.61	NIL	Transitional 01/19 Transitional 09/27
China AID TWR	Tower	223905.90S 0170327.97E	6240/114.83	Marked and LGT	Inner Horizontal 01/19 Inner Horizontal 09/27
China AID Radom	Equipment	223905.90S 0170327.97E	6240/45.93	Marked and LGT	Inner Horizontal 01/19 Inner Horizontal 09/27
FLOODLIGHT PRESS	Pole	223635.60S 0170454.10E	5614/80.38	NIL	Transitional 01/19
MTC MAST:	Tower	223554.50S 0170536.10E	5725/121.29	LGT	Inner Horizontal
MTC MAST B:	Tower	223602.70S 0170340.80E	5659/84.51	NIL	Inner Horizontal
MTC OLIMP:	Tower	223554.50S 0170536.10E	5843/118.11	Marked	Inner Horizontal
MTC PROSPERITA	Tower	223722.30S 0170508.30E	5725/112.96	LGT	Inner Horizontal
PRESEDENTIAL FLOODLIGHT	Pole	223635.30S 0170456.50E	5614/80.38	LGT	Transitional 01/19
TELECOM PARK STA	Tower	223536.10S 0170427.80E	5607/109.28	Marked LGT	Transitional 19
TELKOM TWR:	Tower	223627.30S 0170314.50E	5669/84.38	Marked LGT	Inner Horizontal
WINDSENSOR:	Equipment	223623.40S 0170439.30E	5571/23.10	NIL	Transitional 01/19
841 ST Durissa	BLDG/Structure	223713.40S 0170643.00E	5833/26.25	NIL	Inner Horizontal 09/27

In Area 3					
OBST ID/ Designation	OBST Type	OBST Position	ELEV/HGT (FT)	Markings /Type, Colour, lighting (LGT)	Remarks
a	b	c	d	e	f
APRNLTS	Pole	223606.40 S 0170451.70E	5613/81.69	LGT	Transitional 01 Transitional 19
APRON FLOOD LT 1	Pole	223600.90S 0170449.90E	5596/70.99	NIL	Transitional 01 Transitional 19
APRON FLOOD LT 2	Pole	223603.40S 0170451.20E	5607/81.43	LGT	Transitional 01 Transitional 19
APRON FLOOD LT 3	Pole	223606.40S 0170451.70E	5613/81.43	LGT	Transitional 01 Transitional 19
APRON FLOOD LT 4	Pole	223609.40S 0170452.20E	5616/81.43	LGT	Transitional 01 Transitional 19

FYWE AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	Associated Met office	Windhoek								
2.	Hours of service MET office outside hours	MON – FRI: 0300 – 1800 SAT – SUN: 0400 – 1600								
3.	Office responsible for TAF preparation Periods of validity	FYWH (06:00,10:00,12:00,15:00 and 18:00) Validity for short terminal aerodrome forecast (TAF)								
4.	Type of landing forecast Interval of issuance	N/A								
5.	Briefing/consultation provided	FYWH								
6.	Flight documentation Language(s) used	English								
7.	Charts and other information available for briefing or consultation	Models and satellite imagery								
8.	Supplementary equipment available for providing information	Satellite imagery								
9.	ATS units provided with information	FYWH								
10.	Additional information (limitation of service, etc.)	1. Satellite imagery. 2. Windsock Geographical Location, Elevation, Marking and Lighting <table><tr><th>Windsock Designation</th><th>Latitude Longitude</th><th>Height (m)</th><th>Marked/ LGT</th></tr><tr><td>Windsock 01 Windsock opposite new control tower.</td><td>223639.90S 0170443.54E</td><td>1735</td><td>Marked</td></tr></table>	Windsock Designation	Latitude Longitude	Height (m)	Marked/ LGT	Windsock 01 Windsock opposite new control tower.	223639.90S 0170443.54E	1735	Marked
Windsock Designation	Latitude Longitude	Height (m)	Marked/ LGT							
Windsock 01 Windsock opposite new control tower.	223639.90S 0170443.54E	1735	Marked							

		Measured to top of Windsock 7.60m AGL.			
		Windsock MID Windsock opposite the old control tower. Measured to top of red light 9.6m AGL.	223610.59S 0170439.75E	1723	Marked
		Windsock 19 Windsock on the opposite side of Taxiway Holding Point Echo. Measured to top centre of light array 7.60m AGL.	223551.20S 0170437.15E	1720	Marked LGT

FYWE AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

<i>Designations RWY NR</i>	<i>TRUE BRG</i>	<i>Dimensions of RWY (M)</i>	<i>Strength of the pavement classification number (PCN) and surface of RWY and SWY</i>	<i>THR coordinates RWY end coordinates THR geoid undulation</i>	<i>THR Elevation and Highest Elevation of TDZ of Precision APP RWY</i>
1	2	3	4	5	6
01	351.19°	1983 x 30	6/F/D/Y/T RWY Asphalt SWY paved	THR 223649.89S 0170449.59E RWY end 223650.08 0170449.63E GUND 105 FT	NIL
19	171.19°	1983 x 30	6/F/D/Y/T RWY Asphalt SWY paved	THR 223546.57S 0170439.03E RWY end 223546.38S 0170439.00E GUND 105 FT M	NIL
09	75.53°	1005 x 30	5/F/D/Y/T RWY Asphalt NIL SWY	THR 223648.63S 0170429.47E RWY end 223648.68S 0170429.27E GUND 105 FT	NIL
27	255.53°	1005 x 30	5/F/D/Y/T RWY Asphalt NIL SWY	THR 223640.58S 0170503.12E RWY end GUND 105 FT	NIL

<i>Designation RWY NR</i>	<i>Slope of RWY- SWY (%)</i>	<i>SWY Dimensions (M)</i>	<i>Clearway (CWY) Dimensions (M)</i>	<i>Strip dimensions (M)</i>	<i>Dimensions of RWY end safety areas</i>
1	7	8	9	10	11
01	RWY 0.997 SWY 1.77	118x30	NIL	2103x150	90x60
19	RWY 0.997 SWY 0.88	148x30	NIL	2103x150	80x60
09	RWY 0.172 SWY NIL	NIL	NIL	1065x150	NIL
27	RWY 0.172 SWY NIL	NIL	NIL	1065x150	NIL

<i>Designations RWY NR</i>	<i>Location and description of engineering material arresting SYSTEM (EMAS)</i>	<i>OFZ</i>	<i>Remarks</i>
1	12	13	14
01	NIL	NIL	Surface Type: RWY Strip: Unpaved, RESA Long Slope: 0.773%, RESA Trans Slope: 1%
19	NIL	NIL	Surface Type of RWY Strip: Unpaved RESA Long Slope: 1.854% RESA Trans Slope: 1.7%
09	NIL	NIL	Surface Type of RWY Strip: Graded Unpaved
27	NIL	NIL	Surface Type of RWY Strip: Graded Unpaved

FYWE AD 2.13 DECLARED DISTANCES

<i>RWY Designator</i>	<i>TORA (M)</i>	<i>TODA (M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
1	2	3	4	5	6
01	1983	2101	2101	1865	NIL
19	1983	2131	2131	1835	NIL
09	1005	1005	1005	1005	NIL
27	1005	1005	1005	1005	NIL

FYWE AD 2.14 APPROACH AND RUNWAY LIGHTING

<i>RWY Designator</i>	<i>APCH LGT type LEN INTST</i>	<i>THR LGT colour WBAR</i>	<i>VASIS (MEHT) PAPI</i>	<i>TDZ, LGT, LEN</i>	<i>RWY Centre line LGT length, spacing, colour, INTST</i>
1	2	3	4	5	6
01	NIL	NIL	PPL, 400/3	NIL	NIL
19	NIL	NIL	PPL, 400/3	NIL	NIL
09	NIL	NIL	NIL	NIL	NIL
27	NIL	NIL	NIL	NIL	NIL

<i>RWY edge LGT LEN spacing colour INTST</i>	<i>RWY End LGT colour WBAR</i>	<i>SWY LGT LEN (M) colour</i>	<i>Remarks</i>
7	8	9	10
60 M	Red/Green	NIL	Non-precision approach
60 M	Red/Green	NIL	Non-precision approach
NIL	NIL	NIL	NIL
NIL	NIL	NIL	NIL

FYWE AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	<i>ABN/IBN location, characteristics, and hours of operation</i>	NIL
2.	<i>LDI location and LGT Anemometer location and LGT</i>	LDI: NIL Anemometer S_N (South): Abeam Windsock and LGT 01. Anemometer N_N (North): Abeam Threshold 19 and NIL LGT.
3.	<i>TWY edge lights, centre line lights and stop bars (if any)</i>	TWY Edge: 18 blue elevated lights taxiway edge lights located on the edge of intersection delta. Centreline: NIL Stop Bars: NIL
4.	<i>Secondary power supply/switch-over time</i>	Secondary power supply to all lighting at AD Switch- over time is within 15 seconds.
5.	<i>Remarks</i>	The generator is a 3412C type, 800 KVA, 400V, 1250A, and is powered by Caterpillar.

FYWE AD 2.16 HELICOPTER LANDING AREA

1.	<i>Coordinates touchdown and lift-off (TLOF) or THR of final approach and take-off (FATO) Geoid undulation</i>	NIL
2.	<i>TLOF and/or FATO elevation M/FT</i>	NIL
3.	<i>TLOF and FATO area dimensions, surface, strength, marking</i>	NIL
4.	<i>True BRG of FATO</i>	NIL
5.	<i>Declared distance available</i>	NIL
6.	<i>APP and FATO lighting</i>	NIL
7.	<i>Remarks</i>	The helicopter operator must inform Rescue and Firefighting personnel via telephone at +264 61-2955510/1, at least 24 hours in

		advance for the provision of helipad space. Arrival: • All medium and heavy category helicopters arriving at FYWE must use RWY 01/19 as the Final Approach and Take-off (FATO) area. • All Small category helicopters arriving at FYWE must use taxiway 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 or straight to the hangar. Departure: • All medium and heavy category helicopters departing from FYWE must use RWY 01/19 as the FATO. • All Small category helicopters departing from FYWE must use taxiway as the Final Approach and Take-off (FATO) area. • 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 or to the taxiway as per the ATC clearance.
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FYWE AD 2.17 ATS AIRSPACE

1.	<i>Designation and lateral limits</i>	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.	<i>Vertical limits</i>	GND / 7500 FT AMSL
3.	<i>Airspace classification</i>	C
4.	<i>ATS unit call sign</i> <i>Language(s)</i>	Eros Tower English
5.	<i>Transition altitude</i>	10 000 FT AMSL
6.	<i>Hours of applicability (or activation)</i>	AD Administration
7.	<i>Remarks</i>	Due to non-simultaneous operations on the manoeuvring area at FYWH. All traffic intending to depart from FYWE to FYWH are required to request for start-up clearance from FYWE ATC on 118.7 MHz.

FYWE AD 2.18 ATS COMMUNICATION FACILITIES

<i>Service designation</i>	<i>Call sign</i>	<i>Frequency</i>	<i>Hours of operation</i>	<i>Remarks</i>
1	2	3	4	5
Tower	Eros Tower	118.7 MHz	Same as AD	Co-ordinates 223638.23S 0170455.20E
Approach	Windhoek Approach	120.5 MHz	H24	
ATIS	Eros ATIS	126.4 MHz	H24	Operational 50NM radius around Eros Airport on FREQ 126.4MHz or TEL +264 81 3323508

FYWE AD 2.19 RADIO NAVIGATION AND LANDING AIDS

<i>Type of aid, MAG VAR, Type of Supported OPS (for VOR/ILS/ MLS give VAR)</i>	<i>ID</i>	<i>Frequency</i>	<i>Hours of Operation</i>	<i>Position of transmitting antenna co-ordinates</i>	<i>Elevation of Distance Measuring Equipment (DME) transmitting antenna</i>	<i>Service volume radius from the GBAS reference point</i>	<i>Remarks</i>
1	2	3	4	5	6	7	8
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FYWE AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

1.1 Hazard, Incidents and Accident Reporting

All safety hazards, incidents and accidents to be reported to FYWE fire station control room at +264 61 2955511 or the Safety & Environmental Officer on duty at +264 61 2955519/5515 or emailed to erosafety@airports.com.na.

1.2 Golf course on final APCH RWY 01

- Trees on grounds on the left to the right of APCH area.
- Boundary on golf course adjoins south BDRY of AD.

1.3 Circuit ALT:

- Turbine powered aircraft 7 000 FT ALT.
- Reciprocating engine powered aircraft 6 500 FT ALT.

1.4 Reflective jackets

All pilots and crew operating at Eros Airport 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.

1.5 New Aircraft operating at Eros Airport

Aircraft operators intending to operate an aircraft for the first time at Eros Airport must apply in writing via email to Hamunyelam@airports.com.na, the Airport Manager to complete the new Aircraft Application form. Pilots may only operate the new aircraft upon approval by the Airport Manager. This assessment will also include a comparison of the aircraft ACN against the Airport airside Pavement PCN.

1.6 Airport fees administration

1.6.1 After hour operations

An applicant requiring operating outside the airport's published operational hours must apply in writing at least 48 hours in advance to the Airport Manager who after consultation with service providers will respond to the request. This excludes ambulances, emergency flights and any diversions.

1.6.2 Landing /Parking and Passenger Fees

All unscheduled and charters flight to effect payment directly to NAC upon arrival and before departure and not to any third parties, payment can be done at Apron office located at the Fire Station.

2. Taxiing to and from stands

Take-off on Runway 01/19

- Aircraft cleared to take-off on runway 01, may exit the apron and enter the parallel taxiway and taxi to intersection Alpha to threshold 01 for take-off
- Aircraft cleared to take-off on runway 19, may exit the apron and enter the parallel taxiway and taxi to intersection Echo to threshold 19 for take-off.

Take-off Runway 09/27

- Aircraft cleared to take-off on runway 09, may exit the apron and enter the parallel taxiway and taxi to main runway 01/19 and secondary runway 09/27 intersection and proceed to threshold 09 for take-off.
- Aircraft cleared to take-off on runway 27, may exit the apron and enter the parallel taxiway and taxi to main runway 01/19 and secondary runway 09/27 intersection and proceed to threshold 27 for take-off.

Landing on Runway 01/19

- Aircraft landing on runway 01 may exit the runway 01/19 via taxiway Charlie, Delta or Echo into parallel taxiway and taxi to enter the apron or hangers.
- Aircraft landing on runway 19 may exit the runway 01/19 via taxiway Charlie, secondary runways intersection, Bravo, or Alpha into parallel taxiway and taxi to enter the apron or hangers.

Landing on Runway 09/27

- Aircraft landing on runway 27 may exit runway 09/27 into the parallel taxiway and taxi to enter the apron or hangers.
- Aircraft landing on runway 27 may enter the main runway 01/19 and vacate Charlie intersection onto parallel taxiway and taxi to enter the apron or hangers.
- Aircraft landing on runway 09 may proceed and cross the main runway intersections and exit runway 09/27 into the parallel taxiway and taxi to enter the apron or hangers.

3. Securing of light aircraft

There is no designated stands for the parking of small aircrafts, pilots are strictly requested to adhere to the marshalling signals from the Marshaller.

No aircraft mooring points available at FYWE, Aircraft mooring weights available:

- 2 x 35KG pairs;
- 2 x 50KG pairs;
- 1 x 70KG pair; and

1 x mobile trolley

The mooring equipment are stored at a demarcated area located between the Apron office and Cargo Warehouse on the airside.

Pilots inform ARFF Control Room at +264 61 2955511 that they require Mooring Weights, and the ARFF control room will inform the Safety & Environmental Officer on duty.

Once the mooring weights have been used, it is the responsibility of the Aircraft Operator to return the weights to the designated storage area.

4. Parking area for helicopters

Once the helicopter enters the apron, ATC will instruct the pilot to follow the direction of the Aircraft Marshalls to an allocated parking position on the apron.

5. Aircraft taxiing to the apron

Inbound Traffic:

Upon the aircraft's arrival, the ATC shall inform the Pilot in command to taxi directly to the apron and follow the instruction of the Marshaller to park the aircraft.

6. School and training flights – Technical test flights – use of runways

6.1 Windhoek Flight Training Centre.

6.2 NATA

6.3 NDF

6.4 Signa Aviation

School and training flights must only be made after permission has been obtained from ATS.

7. Helicopter Traffic - Limitation

Non-scheduled public air traffic with helicopters is permitted only after prior approval from the Eros Aerodrome Administration. Any contact concerning the above shall be made via the handling company or directly to the Airport Office during the hours of service and, if possible, not later than the day before the flight is to be carried out.

Any request for approval of traffic shall contain the following information:

- a) Owner/operator
- b) Type of helicopter, registration/call sign
- c) Date, arrival time/departure time, destination(s).

furthermore, other details relevant to the evaluation of the request shall be given as required.

8. Removal of disabled aircraft on or adjacent to the movement area.

When an aircraft becomes disabled on or adjacent to the movement area, the owner or user of such aircraft must remove as soon as possible. If the disabled aircraft is not removed as quickly as possible by the owner or user, the airport operator shall assume the responsibility for the removal of the disabled aircraft at the cost of the aircraft operator and shall be indemnified of any damages caused pursuant to the removal of the aircraft.

FYWE AD 2.21 NOISE ABATEMENT PROCEDURES

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

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

RNP Approach Runway 01 for NCAA approved operators only.

3. Procedures for within Eros CTR

- | | |
|------------------------------------|---------------|
| 3.1 Radar vectoring and sequencing | NIL facility. |
| 3.2 Surveillance radar approaches | NIL facility. |
| 3.3. Precision radar approaches | NIL facility. |

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. All flights by night to:

Depart from RWY 01.

Landing from RWY 19

2. Bird concentrations in the vicinity of the airport

Intense activity of flocks of Guineafowls takes place daily after sunrise when birds fly from resting area (from threshold of RWY 01) across approach of runway 01 to their feeding area near the airport and before sunset the same activity as described above takes place in reverse when the birds return to their area.

Aerodrome Control (Management) will inform pilots of bird's activity through a NOTAM; therefore, pilots are advised to exercise cautions during approach, landing and taking off.

FYWE AD 2.24 CHARTS RELATED TO WINDHOEK (EROS)

ICAO Charts		
No	Chart Type	Page No
1	Aerodrome Chart-ICAO	FYWE AD 2-21
2	ATC Surveillance Minimum Altitude Chart	FYWE AD 2-23
3	ATC Surveillance Minimum Coordinates	FYWE AD 2-24
4	Visual Approach Chart - ICAO	FYWE AD 2-25
5	Additional Information	FYWE AD 2-26
6	VFR Route 1 Chart - ICAO	FYWE AD 2-27
7	VFR Route 2 Chart - ICAO	FYWE AD 2-29

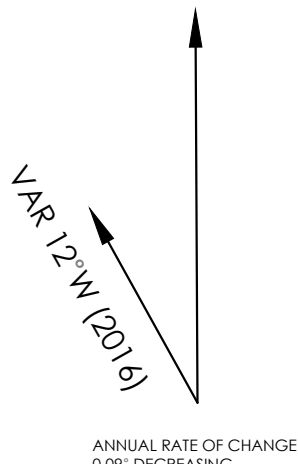
AERODROME CHART

22°36'32.00"S
17°04'44.00"E
AD ELEV 5574 FT

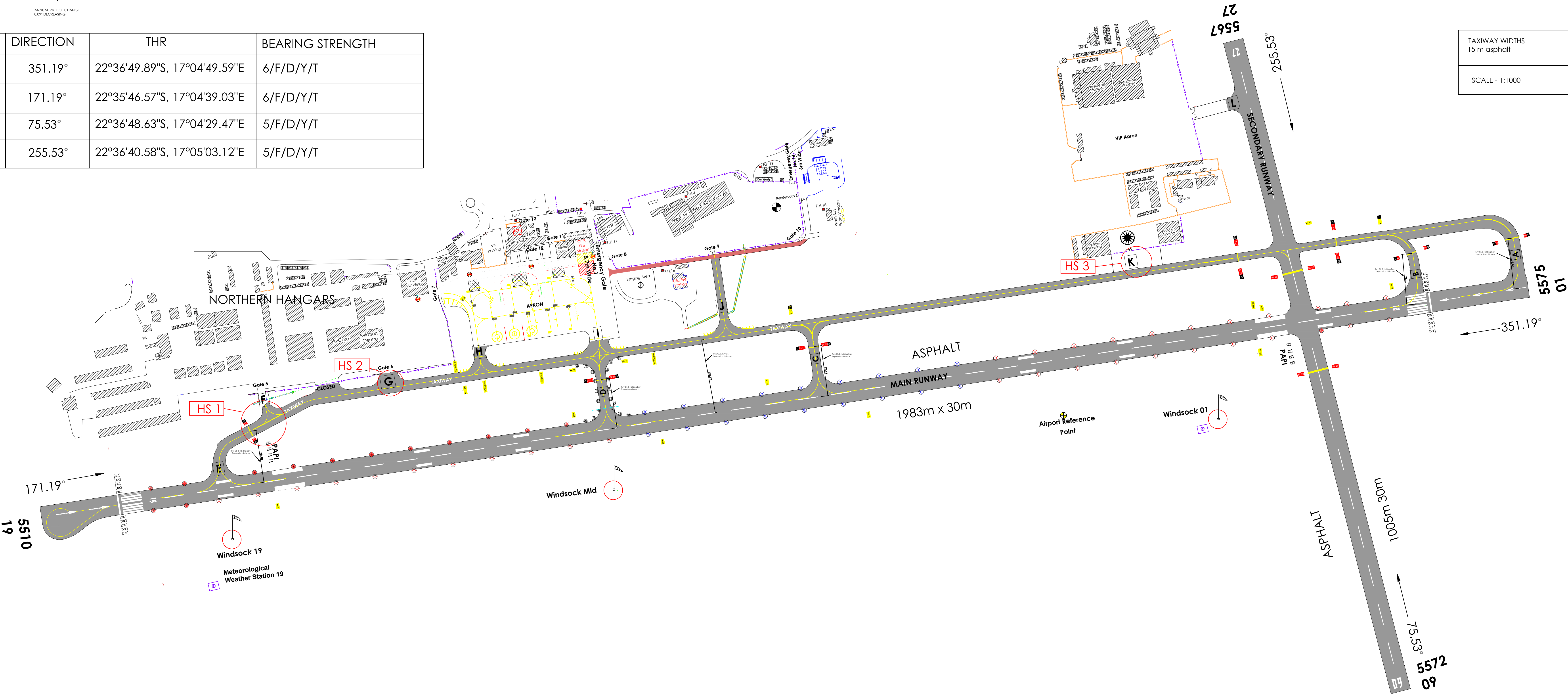
Eros Tower 118.7 MHz
Eros APP 120.5 MHz
Eros ATIS 126.4 MHZ

WINDHOEK/
EROS AIRPORT

ELEVATION IN FEET
DIMENSION IN METRES
BEARINGS ARE MAGNETIC



RWY	DIRECTION	THR	BEARING	STRENGTH
01	351.19°	22°36'49.89"S, 17°04'49.59"E	6/F/D/Y/T	
19	171.19°	22°35'46.57"S, 17°04'39.03"E	6/F/D/Y/T	
09	75.53°	22°36'48.63"S, 17°04'29.47"E	5/F/D/Y/T	
27	255.53°	22°36'40.58"S, 17°05'03.12"E	5/F/D/Y/T	



TAXIWAY WIDTHS 15 m asphalt
SCALE - 1:1000

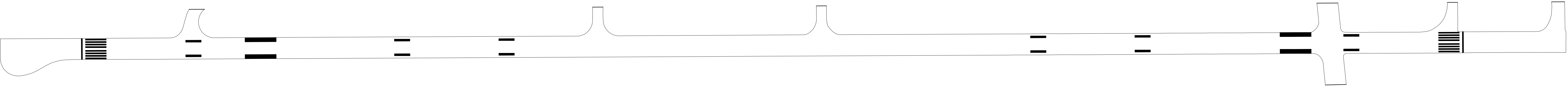
LEGEND

Hot spots

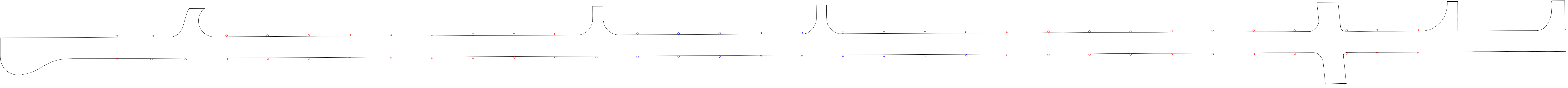
- Windsock
- Staging Area
- Rendezvous Point
- Airport Perimeter Fence
- Airport Emergency Gates
- Meteorological Weather Station
- Buildings
- ECC Building
- Foam Refilling
- Difficult Terrain
- Erf Boundary
- Apron Restricted Area - Plane
- Apron Restricted Area - Vehicles
- Aerodrome Reference Point
- Main Runway
- Taxiway
- Sign Board

- LIGHTS
- RUNWAY EDGE LIGHTS Y/W
- RUNWAY EDGE LIGHTS W
- TAXIWAY EDGE LIGHTS
- APPROACH LIGHTS
- PAPI LIGHTS
- APRON FLOOD LIGHTS

MARKING AIDS RWY 01/19 & EXIT TWY



LIGHTING AIDS RWY 01/19 & EXIT TWY



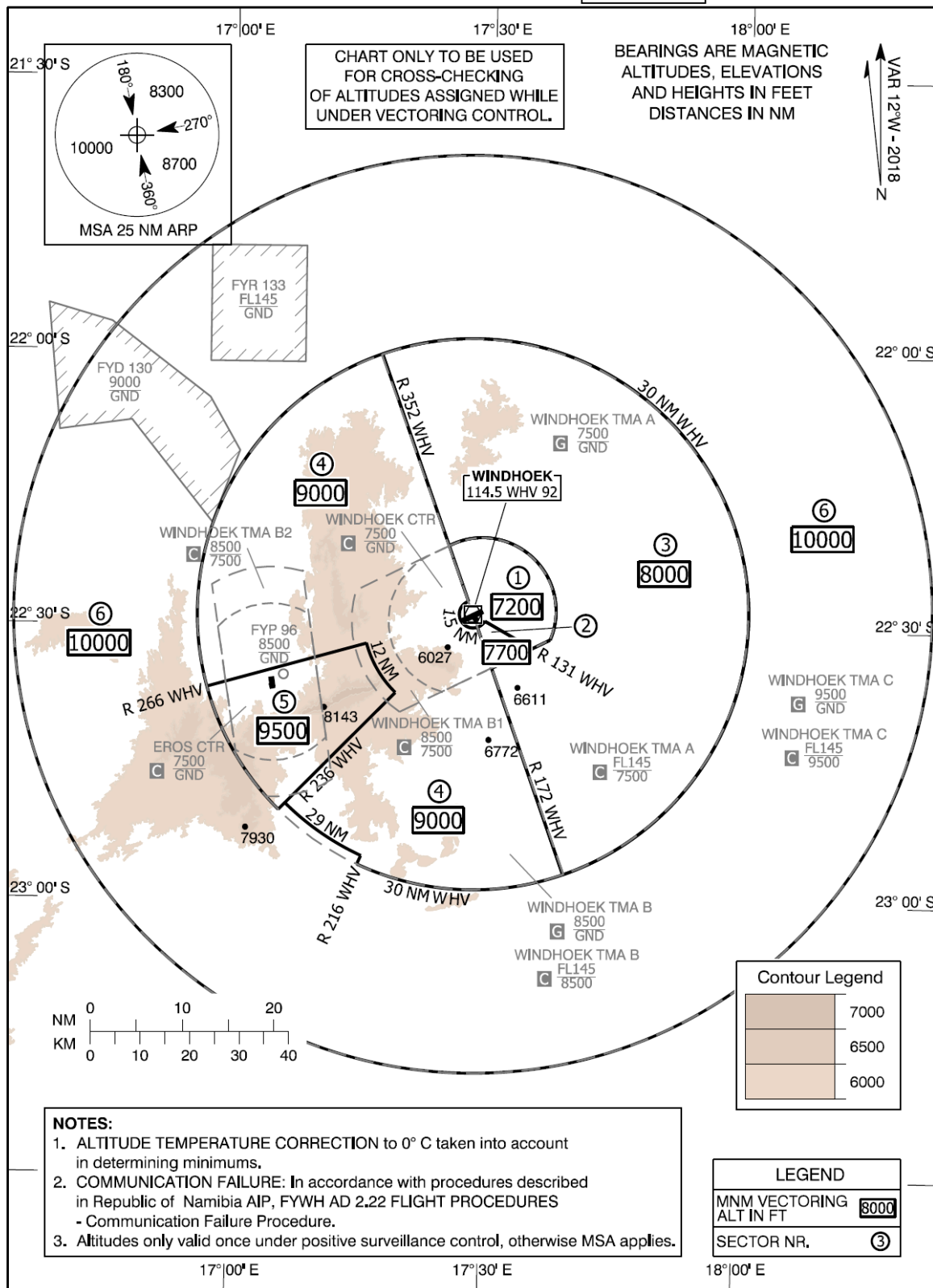
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**ATC SURVEILLANCE
MINIMUM ALTITUDE
CHART - ICAO**

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

ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

**WINDHOEK EROS.
(FYWE)**



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

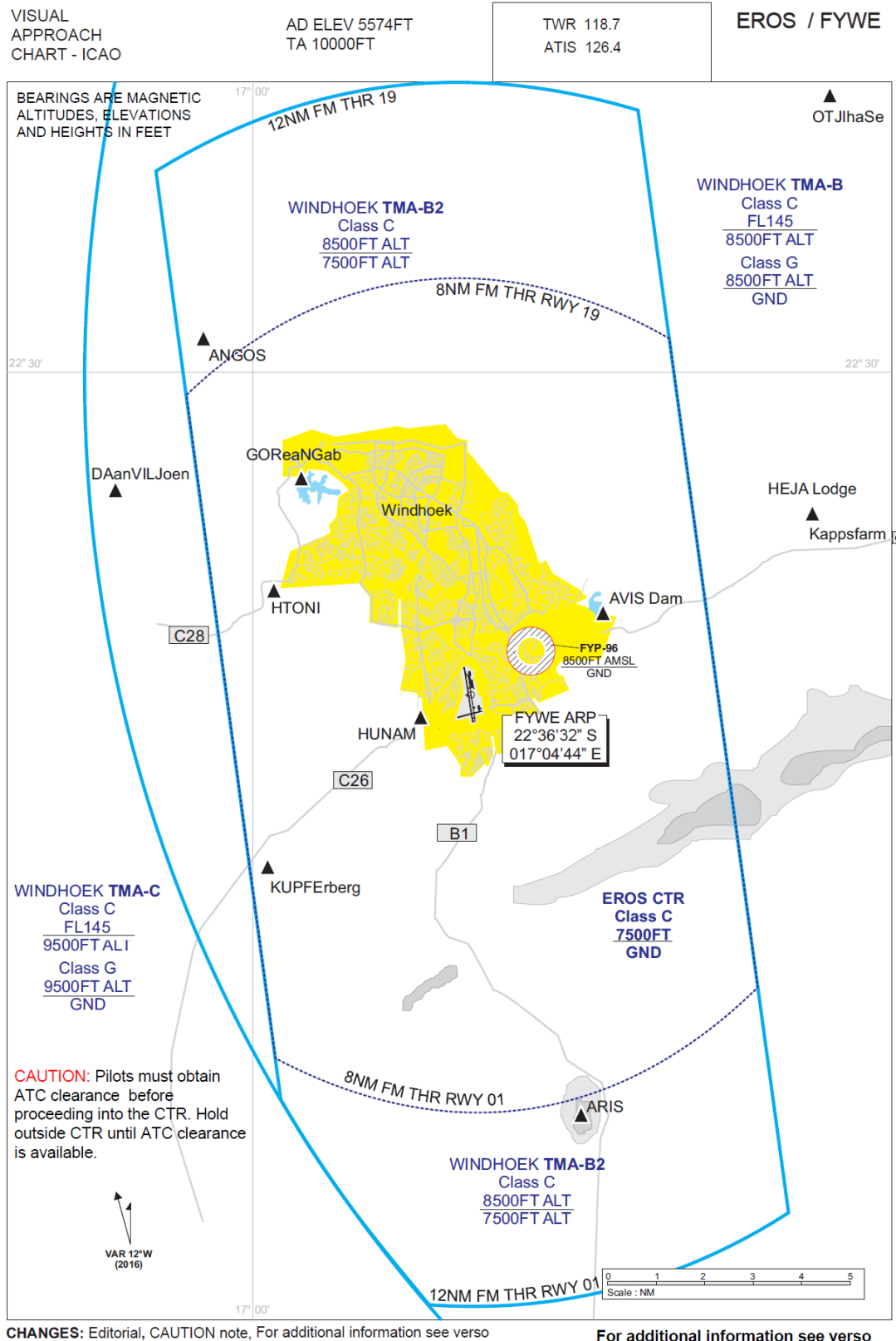
22°00'21"S 017°17'12"E, 22°27'14"S 017°27'41"E,
arc 1.5 NM radius centre 22°28'39"S 017°28'14"E,
22°30'03"S 017°28'47"E, 22°56'55"S 017°39'21"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°56'07"S 017°15'01"E, 22°55'13"S 017°15'28"E,
arc 29 NM radius centre 22°28'39"S 017°28'14"E,
22°49'33"S 017°06'26"E, 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

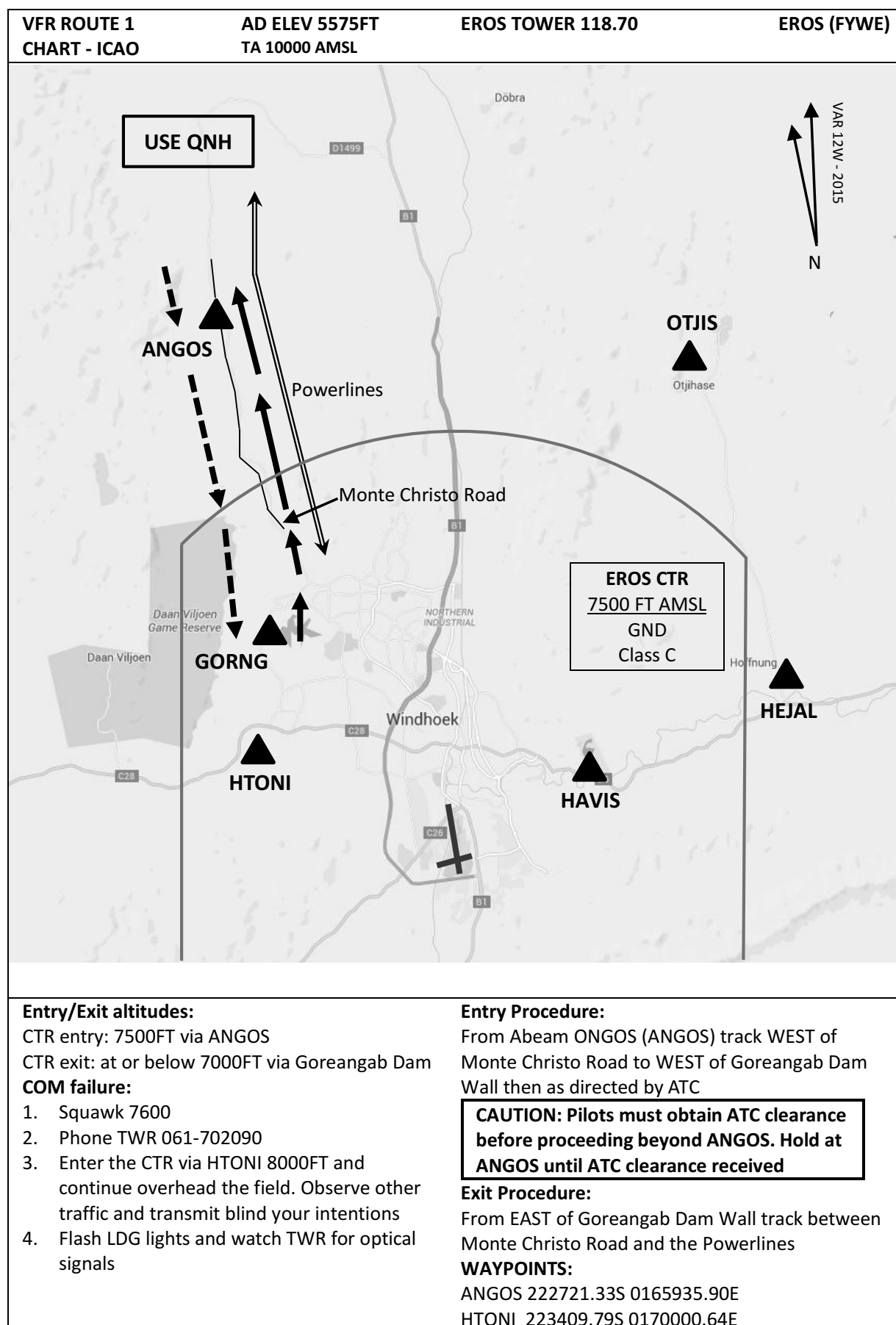
22°36'53"S 016°57'04"E, 22°31'57"S 017°15'47"E,
arc 12 NM radius centre 22°28'39"S 017°28'14"E,
22°37'18"S 017°19'14"E, 22°50'16"S 017°05'41"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°36'53"S 016°57'04"E

Sector 6. MNM ALT 10000 FT

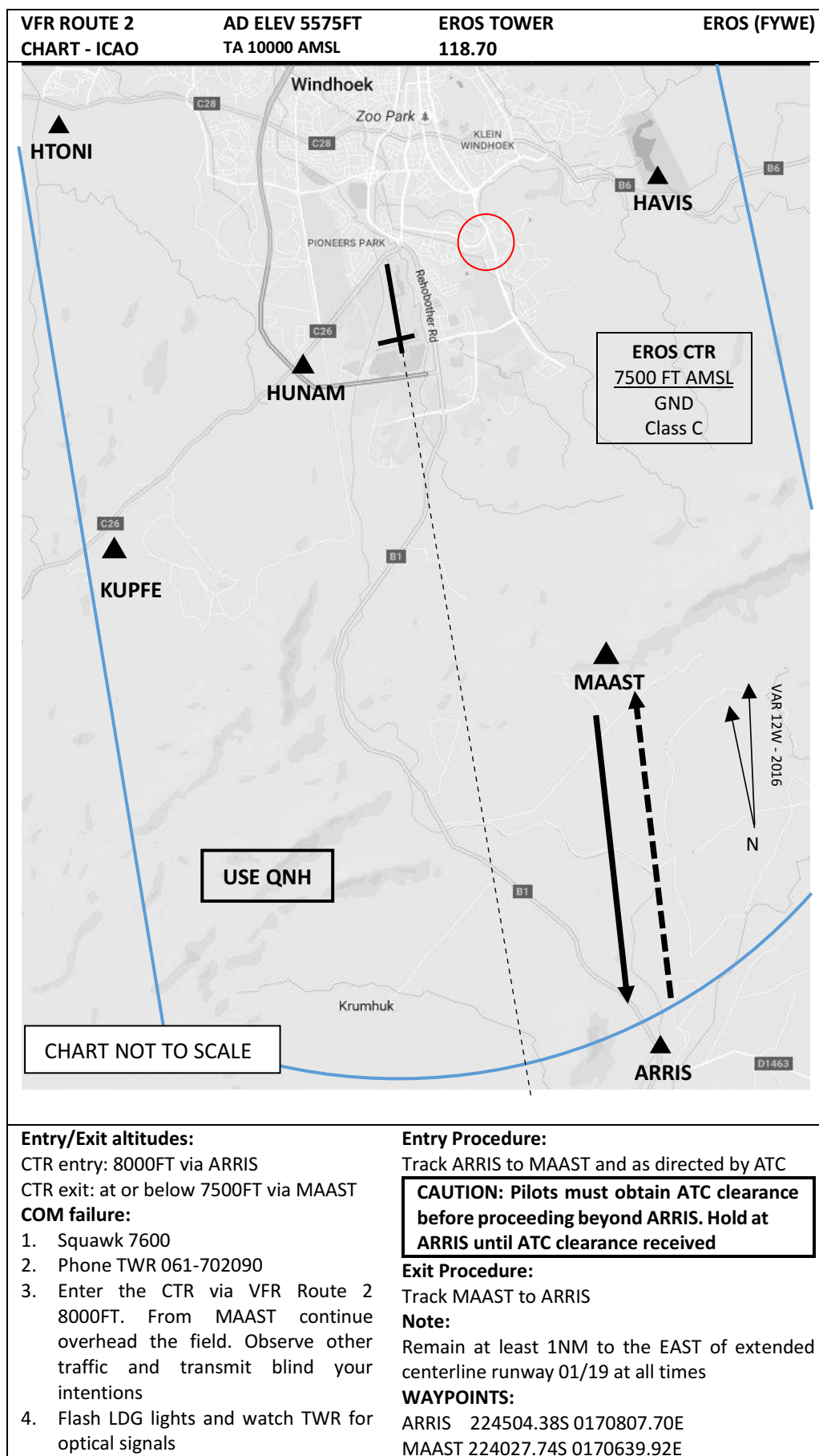
22°56'07"S 017°15'01"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°50'16"S 017°05'41"E, 22°49'33"S 017°06'26"E,
arc 29 NM radius centre 22°28'39"S 017°28'14"E,
22°55'13"S 017°15'28"E, 22°56'07"S 017°15'01"E
arc 50 NM radius centre 22°28'39"S 017°28'14"E



VFR Point	Entry Alt	Exit Alt	Waypoints:
GORNG	7500FT	at or below 7000FT	ANGOS 222721.33S 0165935.90E
HTONI	7500FT	at or below 7000FT	GORNG 223142.97S 0170031.00E
HEJAL	ALT 7500FT	ALT 7000FT	HEJAL 223210.82S 0171140.29E
KUPFE	8000FT	at or below 7500FT	KUPFE 223925.67S 0170003.35E
			OTJIS 222531.68S 0171028.99E
COM failure:			VFR Holdings:
1. Squawk 7600			HAVIS 223425S 0170751E
2. Phone TWR 061-702090			HTONI 223410S 0170000E
3. Enter the CTR via HTONI 8000FT and continue overhead the field. Observe other traffic and transmit blind your intentions.			HUNAM 223641S 0170325E
4. Flash LDG lights and watch TWR for optical signals			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



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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	222852S 0172813E Holding Point Delta (West)
2.	Direction and distance from (city)	080°/24.3 NM East of Windhoek
3.	Elevation/reference temperature	5 641 FT/35 °C
4.	Geoid undulation at AD ELEV PSN	102 FT (30 M)
5.	Magnetic (MAG) variation (VAR)/Annual change	12° W (2025) / 0.11° increasing
6.	Name of aerodrome operator, address, telephone, telefax numbers, e-mail address, AFS address and, if available, website address	Namibia Airports Company Limited Hosea Kutako International Airport P.O. Box 1 WINDHOEK NAMIBIA Mr. Alexander Gairiseb: Senior Airport Manager Contact Details Tel: +264 61 295 5601, Fax: NIL Cell: +264 81 143 4740 (during or after hours) E-mail: gairiseba@airports.com.na Website: www.airports.com.na ATC Tel: +264 62 702 490/1/2/3 Fax: +264 62 702 499 NCAA Fax: +264 61 702 099 AFS: FYWHYDYX
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR
8.	Remarks	NIL

FYWH AD 2.3 OPERATIONAL HOURS

1.	<i>AD Administrator</i>	MON-SUN: 0300-1930
2.	<i>Customs and immigration</i>	As AD Administration
3.	<i>Health and sanitation</i>	As AD Administration
4.	<i>AIS briefing office</i>	NIL
5.	<i>ATS reporting office (ARO)</i>	NIL
6.	<i>MET briefing office</i>	H24
7.	<i>ATS</i>	H24
8.	<i>Fuelling</i>	As AD Administration
9.	<i>Handling</i>	As AD Administration
10.	<i>Security</i>	H24
11.	<i>De-icing</i>	NIL
12.	<i>Remarks</i>	See section AD 2.20 for Airport Regulations. AIS Briefing Office located at FYWE

FYWH AD 2.4 HANDLING SERVICES AND FACILITIES

1.	<i>Cargo-handling facilities</i>	Forklift capacity 3 tons, 2.5 tons Double Container pallets/ dollies, Cargo Dollies, Single container Dollies, Wooden Panel Baggage cart, 1 High-Low Loader (TLD), 1 Lower –deck loader (TLD) 3 Baggage Loading belts (NBL), 3 Ground Power Units (TLD), /1 Passenger Aid Unit (PAU) ,2 Nonmotorized steps-Wide body, 2 Narrow body steps Nonmotorized, 1 Motorized Steps-Wide body,1 Toilet service, 1 water cart services, 2 Tractors, (TLD) 1 Nissan Tractor
2.	<i>Fuel/oil types</i>	Jet A1
3.	<i>Fuelling facilities/capacity</i>	Hydrant refueling system and Bowser of 18,000L. One truck with capacity of 18,000L with a floor of 900 litres/min
4.	<i>De-icing facilities</i>	NIL
5.	<i>Hangar space for visiting aircraft</i>	NIL
6.	<i>Repair facilities for visiting aircraft</i>	NIL
7.	<i>Remarks</i>	NIL

FYWH AD 2.5 PASSENGER FACILITIES

1.	<i>Hotels</i>	Hotels in City and lodges located near the AD.
2.	<i>Restaurants</i>	On AD and in the city.
3.	<i>Transportation</i>	Airport Shuttles, taxi service and Car hire
4.	<i>Medical facilities</i>	First aid, ambulance on AD. Hospital in city $\pm$ 50 KM
5.	<i>Bank and post office</i>	Foreign Exchange and ATM open with AD Administration hours, NIL Post Office.
6.	<i>Tourist office</i>	NIL
7.	<i>Remarks</i>	NIL

FYWH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	<i>AD category for fire fighting</i>	CAT 9
2.	<i>Rescue equipment</i>	3 x Fire Tenders 1 x Ambulance 700 000L water reservoir 11 250L AFFF (Foam- Tridol "S" 6%) 700KG Dry Chemical Powder Hydrants (18)
3.	<i>Capability for removal of disabled aircraft</i>	Removal of disabled aircraft is the responsibility of the airline or registered owner or aircraft operator. Disabled aircraft removal coordinator: Mr. Alexander Gairiseb Senior airport manager Tel: +264 61 295 5601 Fax: NIL Cell: +264 81 143 4740 (during and after hours) Email: gairiseba@airports.com.na Website: www.airports.com.na
4.	<i>Remarks</i>	Rescue and Fire Fighting hours of operations are 24HR

FYWH AD 2.7 SEASONAL AVAILABILITY - CLEARING

1.	<i>Types of clearing equipment</i>	NIL
2.	<i>Clearance priorities</i>	NIL
3.	<i>Remarks</i>	NIL

FYWH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1.	<i>Apron designation, surface, and strength</i>	Surface: Asphalt Strength: PCN 100/F/B/W/T Surface: Concrete Strength: PCN 65/R/B/W/T Surface: Interlocks Strength: PCN NIL Info available
2.	<i>Taxiway designation, width, surface, and strength</i>	Taxiway: Parallel Taxiway Width: 23 M Surface: Asphalt Strength: PCN 65/F/B/W/T TWY Intersection A, Width 23 M, Asphalt, PCN 65/F/B/W/T TWY Intersection B, Width 23 M, Asphalt, PCN 65/F/B/W/T TWY Intersection C, Width 23 M, Asphalt, PCN 65/F/B/W/T TWY Intersection D, Width 23 M, Asphalt, PCN 65/F/B/W/T TWY Intersection E, Width 23 M, Asphalt, PCN 65/F/B/W/T TWY Intersection F, Width 23 M, Asphalt, PCN 65/F/B/W/T
3.	<i>Altimeter checkpoint location and elevation</i>	NIL
4.	<i>VHF omnidirectional radio range (VOR) checkpoints</i>	Elevation: 5616 FT Location: At Holding Point Bravo 114.5 MHz
5.	<i>INS checkpoints</i>	NIL
6.	<i>Remarks</i>	NIL

FYWH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	<i>Use of aircraft stand ID signs, TWY guide lines and visual docking/ parking guidance system of aircraft stands</i>	NIL aircraft stand ID signs and markings. Taxiing guidance signs at all intersections with TWY and RWY and at all holding positions. Aircraft TWY Guidelines available. Pilots to follow the marshaller.
2.	<i>RWY and TWY markings and LGT RWY markings:</i>	RWY markings: Designation, Threshold, Touch Down Zone, Aiming Points, Side-Stripe markings, Centre line. RWY LGT: Runway Edge Lights, Threshold Lights, Approach Lights, Runway End Lights. TWY markings: Taxiway edge marking, Centre line and Holding Positions at all TWY/RWY intersections marked. TWY LGT: Taxiway Edge Lights.
3.	<i>Stop bars</i>	NIL
4.	<i>Other runway protection measures</i>	NIL
5.	<i>Remarks</i>	See also section AD 2.20 for taxing and parking information

FYWH AD 2.10 AERODROME OBSTACLES

<i>In Area 2a</i>					
<i>OBST ID/ Designation</i>	<i>OBST Type</i>	<i>OBST position</i>	<i>ELEV/HGT (FT)</i>	<i>Markings / Type, Colour</i>	<i>Remarks</i>
a	b	c	d	e	f
AMS E_N	Equipment	222847.27S 0172808.32E	5622	NIL	NIL
MET STATION_08	Equipment	222917.30S 0172703.00E	5669	LGT	NIL
WIND SENSOR_08	Equipment	222921.20S 0172709.38E	5659	NIL	NIL
WINDSOCK 08	Equipment	222919.96S 0172658.41E	5666	Marked LGT	NIL
WINDSOCK 34	Equipment	222859.02S 0172822.02E	5587	Marked LGT	NIL

<i>In Area 2b</i>					
<i>OBST ID/ Designation</i>	<i>OBST Type</i>	<i>OBST position</i>	<i>ELEV/HGT (FT)</i>	<i>Markings / Type, Colour</i>	<i>Remarks</i>
a	b	c	d	e	f
ILS CONTAINER	Equipment	222929.40S 0172650.25E	5661	Marked LGT	NIL
WATER TANK	TANK	222950.87S 0172735.58E	5743	NIL	NIL
LOCALIZER 26	Equipment	222927.31S 0172649.25E	5656	Marked	NIL
ILS MONITOR 26	Equipment	222926.15S 0172651.77E	5652	LGT	NIL
APPL08_L24	Equipment	222929.40S 0172650.25E	5645	NIL	NIL
APPL08_L23	Equipment	222924.38S 0172655.61E	5646	NIL	NIL
APPL08_L22	Equipment	222924.81S 0172654.67E	5647	NIL	NIL
APPL08_L16	Equipment	222927.85S 0172649.25E	5653	NIL	NIL
APPL08_L15	Equipment	222927.76S 0172649.21E	5653	NIL	NIL
APPL08_L7	Equipment	222927.13S 0172648.87E	5653	NIL	NIL

APPL08_L18	Equipment	222926.54S 0172650.90E	5650	NIL	NIL
APPL08_L14	Equipment	222927.69S 0172649.17E	5652	NIL	NIL
APPL08_L10	Equipment	222927.39S 0172649.01E	5652	NIL	NIL
APPL08_L13	Equipment	222927.61S 0172649.13E	5652	NIL	NIL

In Area 2c					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT (FT)	Markings / Type, Colour, lighting (LGT)	Remarks
a	b	c	d	e	f
MTC TWR	Tower	222931.44S 0172728.91E	5747	LGT	NIL
POWER COM TWR	Tower	222929.04S 0172749.85E	5722	Marked LGT	NIL
RESERVOIR	Tower	222940.85S 0172712.08E	5724	Marked LGT	Marked
RX MAST1	Equipment	222908.66S 0172850.86E	5678	NIL	NIL
RX MAST2	Equipment	222910.39S 0172850.89E	5685	NIL	NIL
RX MAST3	Equipment	222910.41S 0172849.02E	5682	NIL	NIL
RX MAST4	Equipment	222907.69S 0172849.00E	5630	NIL	NIL
J FUEL TANK_1	Tank	222918.61S 0172742.28E	5666	NIL	NIL
J FUEL TANK_2	Tank	222919.42S 0172742.57E	5667	NIL	NIL
TXT MAST_1	Equipment	222935.72S 0172726.03E	5758	NIL	NIL
TXT MAST_2	Equipment	222933.98S 0172725.26E	5749	NIL	NIL
TXT MAST_3	Equipment	222933.32S 0172726.99E	5748	NIL	NIL
TXT MAST_4	Equipment	222934.95S 0172728.05E	5756	NIL	NIL
VOR	Equipment	222838.52S 0172814.07E	5614	Marked LGT	NIL

RADAR	Equipment	222937.99S 0172726.15E	5829	NIL	NIL
ARB	Equipment	222940.85S 0172712.08E	5718	LGT	NIL
POWERLINE 1	Transmission lines	222950.56S 0172918.00E	5643	Marked	NIL
POWERLINE 2	Transmission lines	222954.55S 0172907.96E	5690	Marked	NIL
POWERLINE 3	Transmission lines	222951.79S 0172904.01E	5685	Marked	NIL
POWERLINE 4	Transmission lines	222947.38S 0172857.74E	5656	Marked	NIL
WATER TANK 1	Tank	222950.87S 0172735.58E	5743	NIL	NIL
WATER TANK 2	Tank	222929.23S 0172619.71E	5720	NIL	NIL

<i>In Area 2d</i>					
<i>OBST ID/ designation</i>	<i>OBST Type</i>	<i>OBST Position</i>	<i>ELEV/HGT (FT)</i>	<i>Markings/ Type, Colour, lighting (LGT)</i>	<i>Remarks</i>
a	b	c	d	e	f
1AUA/GER014	Transmission lines	223209.22S 0172130.54E	6017	Red and White Aerial Balls	NIL
1AUA/GER015	Transmission lines	223157.82S 0172139.60E	6068	Red and White Aerial Balls	NIL
1AUA/GER016	Transmission lines	223145.43S 0172149.43E	6050	Red and White Aerial Balls	NIL
1AUA/GER017	Transmission lines	223131.02S 0172200.88E	6003	Red and White Aerial Balls	NIL

<i>In Area 3</i>					
<i>OBST ID/ Designation</i>	<i>OBST Type</i>	<i>OBST position</i>	<i>ELEV/HGT (FT)</i>	<i>Markings / Type, Colour</i>	<i>Remarks</i>
a	b	c	d	e	f
STEEL TWR	Tower	222915.63S 0172742.14E	5670	NIL	NIL
AMS E_N	Equipment	222847.27S 0172808.32E	5622	NIL	NIL
C_TWR_A	Tower	222910.64S 0172751.22E	5672	LGT	NIL

FLOOD LT1_N	Pole	222915.87S 0172738.82E	5707	LGT	NIL
FLOOD LT2_N	Pole	222914.93S 0172740.86E	5705	LGT	NIL
FLOOD LT3_N	Pole	222913.99S 0172742.89E	5705	LGT	NIL
FLOOD LT4_N	Pole	222912.91S 0172745.25E	5705	LGT	NIL
FLOOD LT5_N	Pole	222911.86S 0172747.51E	5704	LGT	NIL
FLOOD LT6_N	Pole	222910.82S 0172749.79E	5703	LGT	NIL
FLOOD LT7_N	Pole	222909.77S 0172752.06E	5704	LGT	NIL
FLOOD LT8_N	Pole	222908.72S 0172754.33E	5704	LGT	NIL
FLOOD LT9_N	Pole	222907.68S 0172756.61E	5700	LGT	NIL
MET STATION_08	Equipment	222917.34S 0172703.00E	5670	LGT	NIL
MET STATION_26	Equipment	222819.33S 0172908.88E	5544	LGT	NIL

FYWH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	Associated Met office	Windhoek
2.	Hours of service MET office outside hours	H24
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

<i>Designations RWY NR</i>	<i>TRUE BRG</i>	<i>Dimensions of RWY (M)</i>	<i>Strength of the pavement classification number (PCN) and surface of RWY and SWY</i>	<i>THR coordinates RWY end coordinates THR geoid undulation</i>	<i>THR Elevation and Highest Elevation of TDZ of Precision APPRWY</i>
1	2	3	4	5	6
08	063.63°	4569 x 45	76/F/B/W/T Asphalt NIL SWY	THR / RWY end 222923.08S 0172658.43E GUND 102 FT	THR 5641 FT TDZ 5635 FT
26	243.63°	4569 x 45	76/F/B/W/T Asphalt NIL SWY	THR 222817.12S 0172921.61E RWY end 222817.12S 0172921.59E GUND 102 FT	THR 5501 FT TDZ 5529 FT
16	141.16°	1523 x 30	100/F/B/W/T Asphalt NIL SWY	THR coordinates 222839.65S 0172808.58E RWY end coordinates 222839.65S 0172808.58E GUND 102 FT	THR 5574 FT
34	321.16°	1523 x 30	100/F/B/W/T Asphalt NIL SWY	THR / RWY end 222918.22S 0172841.99E GUND 102 FT	THR 5565 FT

<i>Designation RWY NR</i>	<i>Slope of RWY-SWY</i>	<i>SWY Dimensions (M)</i>	<i>CWY Dimensions (M)</i>	<i>Strip Dimensions (M)</i>	<i>Dimensions of runway end safety areas</i>
1	7	8	9	10	11
08	RWY-0.9 % SWY NIL	NIL	165	4688 x 280	240 x 180
26	RWY-0.9 % SWY NIL	NIL	120	4688 x 280	240 x 180
16	RWY-0.2 % SWY NIL	NIL	120	1643 x 150	240 x 120
34	RWY-0.2 % SWY NIL	NIL	120	1643 x 150	240 x 120

<i>Designation RWY NR</i>	<i>Location and description of engineering material arresting system (EMAS)</i>	<i>OFZ</i>	<i>Remarks</i>
1	12	13	14
08	NIL	NIL	NIL
26	NIL	NIL	NIL
16	NIL	NIL	NIL
34	NIL	NIL	NIL

FYWH AD 2.13 DECLARED DISTANCES

<i>RWY Designator</i>	<i>TORA (M)</i>	<i>TODA(M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
1	2	3	4	5	6
08	4569	4734	4569	4569	NIL
26	4569	4689	4569	4569	NIL
16	1523	1643	1523	1523	NIL
34	1523	1643	1523	1523	NIL

FYWH AD 2.14 APPROACH AND RUNWAY LIGHTING

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

<i>RWY edge LGT LEN, spacing colour INTST</i>	<i>RWY End LGT colour WBAR</i>	<i>SWY LGT LEN (M) colour</i>	<i>Remarks</i>
7	8	9	10
4569 M/57.50 M, White/LIH	Red	NIL	Last 600 M of RWY is amber
4569.193 M/57.50 M, White/LIH	Red	NIL	NIL
1525 M/57.50 M, White/LIH	Red	NIL	NIL
1525 M/57.50 M, White/LIH	Red	NIL	NIL

FYWH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	<i>ABN/IBN location, characteristics and hours of operation</i>	700 M South of THR RWY 08 ABN FLG G/W 24 HR
2.	<i>LDI location and LGT Anemometer location and LGT</i>	LDI: NIL Anemometer: 75 M W of THR RWY 34, lighted.
3.	<i>TWY edge and centre line lights and stop bars (if any)</i>	Edge: All TWY Centre line: NIL
4.	<i>Secondary power supply/switch-over time</i>	Secondary power to all essential loads Switch-over time <u>+15</u> seconds
5.	<i>Remarks</i>	NIL

FYWH AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO Geoid undulation	NIL
2	TLOF and/or FATO elevation M/FT	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True BRG of FATO	NIL
5	Declared distance available	NIL
6	APP and FATO lighting	NIL
7	Remarks	NIL

FYWH AD 2.17 ATS AIRSPACE

1.	<i>Designation and lateral limits</i>	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.	<i>Vertical limits</i>	SFC to 7500FT AMSL
3.	<i>Airspace classification</i>	C
4.	<i>ATS unit call sign Language(s)</i>	Windhoek Tower English
5.	<i>Transition altitude</i>	10 000 FT MSL
6.	<i>Remarks</i>	- Speed restrictions apply within Windhoek TMA. Refer FYWH AD 2.22 Flight Procedures - Use FYWH QNH within lateral confines of Windhoek TMA at and below 10 000 FT AMSL. Refer ENR 2.1-3 Note 2 - 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

<i>Service designation</i>	<i>Call sign</i>	<i>Frequency</i>	<i>Hours of operation</i>	<i>Remarks</i>
1	2	3	4	5
APP	Windhoek Approach	120.5 MHz	H24	NIL
TWR	Windhoek Tower	118.1 MHz	H24	NIL

<i>Service designation</i>	<i>Call sign</i>	<i>Frequency</i>	<i>Hours of operation</i>	<i>Remarks</i>
1	2	3	4	5
ATIS	Windhoek ATIS	126.2 MHz	H24	Daily 0600 – 1900 Operational 50NM radius around the airport on FREQ 126.2 MHz or TEL +264 81 3323509

FYWH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

<i>Type of aid, CAT of ILS/MLS (for VOR/ILS/MLS give VAR)</i>	<i>ID</i>	<i>Frequency</i>	<i>Hours of Operation</i>	<i>Position of transmitting antenna co-ordinates</i>	<i>Elevation of DME transmitting antenna</i>	<i>Remarks</i>
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	3°, RDH 49 FT
RNP APCH	N/A	1575.42MHz	H24	N/A	N/A	Transmitting antennas are satellite based.

FYWH AD 2.20 LOCAL AERODROME REGULATIONS

1. Airport regulations

1.1. Hazard, incident, and Accident Reporting.

All safety hazards, incidents, and accidents to be reported to FYWH Fire Station, Safety Office and emailed to hkiasafety@airports.com.na.

1.2. Reflective Jackets

All pilots and crews operation at Hosea Kutako International Airport, airside must wear a lime and silver reflective stripes jacket depicting their airlines/aircraft operator on the rear side of the jacket for identification and safety precaution measure.

1.3. New Aircraft Operating at HKIA

Aircraft Operators intending to operate an aircraft for the first time at HKIA must apply in writing through the Senior Airport Manager and complete the new Aircraft Application form and may only operate the new aircraft upon approval by the NAC.

1.4. Airport Charges

1.4.1. After Hour Operations

Aircraft wishing to operate outside the operation hours should apply 48HR in advance to APM and a surcharge of N\$10,904 per hour thereof will apply. This does not apply to emergency aircraft operations.

Operators are advised to operate within the airport operational hours due to additional stakeholder's services required and costs associated thereto.

1.4.2. Landing/Parking and Passenger Fees

All unscheduled and charters flight to effect payment directly to NAC upon arrival and before departure and not to any third parties, Payment can be done at Apron Office located at the Fire Station.

1.5. Aircraft Ground Handling

Aircraft Operators are to make arrangement only with the licensed ground handling operator at HKIA.

1.6. Circuit Altitude:

- a) Turbine-powered aircraft 7 000 FT ALT
- b) Reciprocating engine powered aircraft 6500 FT ALT.

2. Taxiing to and from stands

2.1. Landing

From runway 26: follow parallel taxiway via intersection Echo/Charlie or Bravo exit to apron.

From runway 08: follow parallel taxiway via intersection Bravo/ Charlie or Echo exit to apron.

From runway 16: follow parallel taxiway via Delta exit to apron.

From runway 34: follow parallel taxiway via Delta exit to apron.

2.2. Take-off

From the apron to holding point Alpha runway 08: follow parallel taxiway leading to holding point Bravo enter runway 08/26 to the turning circle Alpha runway 08.

From the apron to holding point Bravo runway 08: follow parallel taxiway to holding point Bravo.

From the apron to holding point Charlie runway 08: follow parallel taxiway to holding point Charlie.

From the apron to holding point Delta runway 26: follow parallel taxiway leading to holding point Delta.

Runway 26: follow parallel taxiway leading to intersection Delta.

From the apron to holding point Echo runway 26: follow parallel taxiway leading to Delta intersection, cross runway 16/34 leading to the holding point Echo.

From the apron to holding point Foxtrot runway 26: follow parallel taxiway leading to the Delta intersection, cross runway 16/34 leading to the holding point Echo enter Runway 08/26 to turning circle Foxtrot runway 26.

3. Parking area for small aircraft (general aviation)

There is no designated stands for the parking of small aircrafts. Pilots are strictly requested to adhere to the marshalling signals from the Marshallers.

No aircraft mooring points available at FYWH. ACFT mooring weights AVBL. 2X35Kg pairs, 3X50Kg pairs, 3X70Kg pairs. The key for the mobile trolley is available at the Apron Safety Office. Aircraft Operator responsible for returning mooring weights after use.

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

Instrument 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

9. Removal of disabled aircraft from runways

The registered owner or aircraft operator will always retain complete responsibility for the removal of the disabled aircraft. All airline operators at FYWH are expected to have an aircraft recovery plan. For non-airlines operators at FYWH, the pilot or aircraft owner is responsible for the immediate removal and or disposal of the disabled aircraft.

Disabled aircraft removal coordinator:

Mr. Alexander Gairiseb

Senior Airport Manager

Tel: +264 61 295 5601

Fax: NIL

Cell: +264 81 143 4740 (during or after hours)

Email: gairiseba@airports.com.na

Website: www.airports.com.na

10. Limitations on the use of the aerodrome

10.1 Simultaneous Movement of Aircraft

Due to insufficient Safety Distance between the main runway and parallel taxiway centreline the simultaneous movement of aircraft is allowed as follows:

Allowable Movements

Simultaneous movements of Code C and lower aircraft are permitted only during visual meteorological conditions. Any aircraft will be permitted to taxi from the apron once the landing aircraft (Code D and E) announces that the landing roll is complete.

Non-Allowable Movements

No simultaneous movements of any aircraft type or code are permitted during instrument meteorological conditions.

No simultaneous movements of any aircraft type or code are permitted during night operations.

Simultaneous movement of Code D and higher aircraft is prohibited during visual meteorological conditions.

No aircraft shall be permitted to hold at intersections B, C, D, and E for departure whilst another aircraft is landing or taking off.

10.2 Preflight Altimeter Checkpoints

NAC has currently not established and thus not published the preflight altimeter check locations. The pre-flight altimeter checks are currently conducted on any position on the Apron. Pilots obtain the QNH from ATC, which is obtained from the Pressure Sensor of Meteorological Services.

10.3 Apron Markings

Airport Apron lead in lines are not commensurate with aircraft operations. There are no aircraft stand markings on FYWH apron. Pilots are to follow aircraft marshaller instructions.

FYWH AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

FYWH AD 2.22 FLIGHT PROCEDURES

General:

Communication Failure Procedure

Aircraft should adhere to the procedures stipulated in ENR 1.5 Section 6 (ICAO Doc 4444 Chapter 15, 15.3). In addition, the relevant procedures below shall be applied by inbound aircraft.

If able contact ATC on telephone +264 61 702 290

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 IMPEP;
 - In IMPEP hold descent to 8000FT MSL.
 - Carry out instrument approach to the most suitable runway, or if EAT is received and acknowledged, leave IMPEP 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

Bird concentrations in the vicinity of the airport.

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 2A, UVORI 2A RWY 08	AD 2-23
Narrative EGMAS 2A and UVORI 2A RWY 08	AD 2-24
Standard Departure Chart – Instrument – ICAO EGMAS 2B, UVORI 2B RWY 26	AD 2-25
Narrative EGMAS 2B, UVORI 2B 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
ATC Surveillance Minimum Altitude Coordinates	AD 2-32
Instrument Approach Chart – ICAO ILS or LOC RWY 26	AD 2-33
Data Code ILS or LOC RWY 26	AD 2-34
Instrument Approach Chart – ICAO CIRCLING VOR RWY 26	AD 2-35
Data Code Circling VOR RWY 26	AD 2-36
Instrument Approach Chart – ICAO RNP RWY 08	AD 2-37
Data Code RNP RWY 08	AD 2-38
Instrument Approach Chart – ICAO RNP RWY 26	AD 2-39
Data Code RNP RWY 26	AD 2-40
Visual Approach Chart – FYWH	AD 2-41
Visual Approach Chart – FYWE and FYWH	AD 2-43
Aerodrome Obstacle Chart - ICAO	AD 2-45

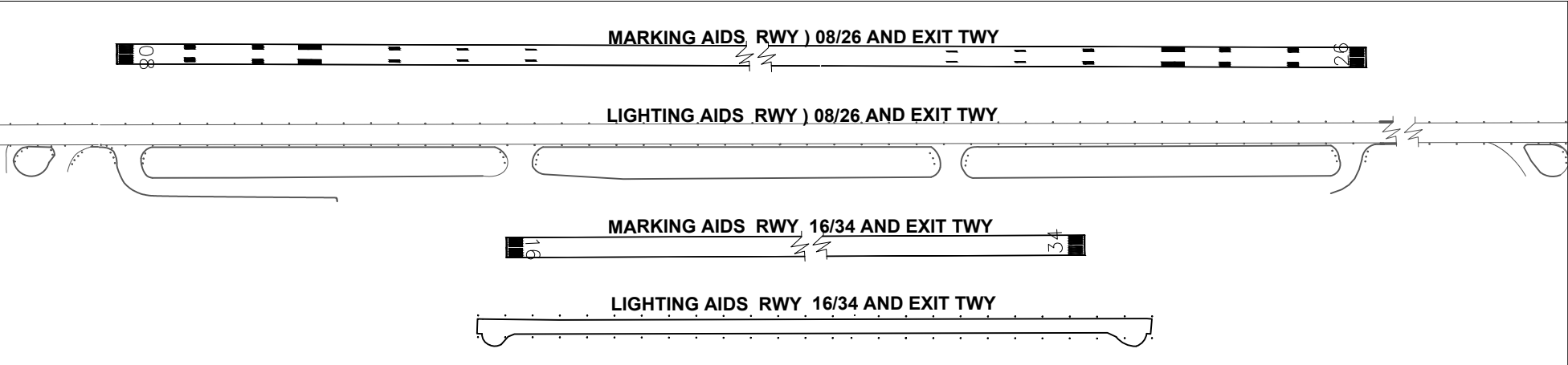
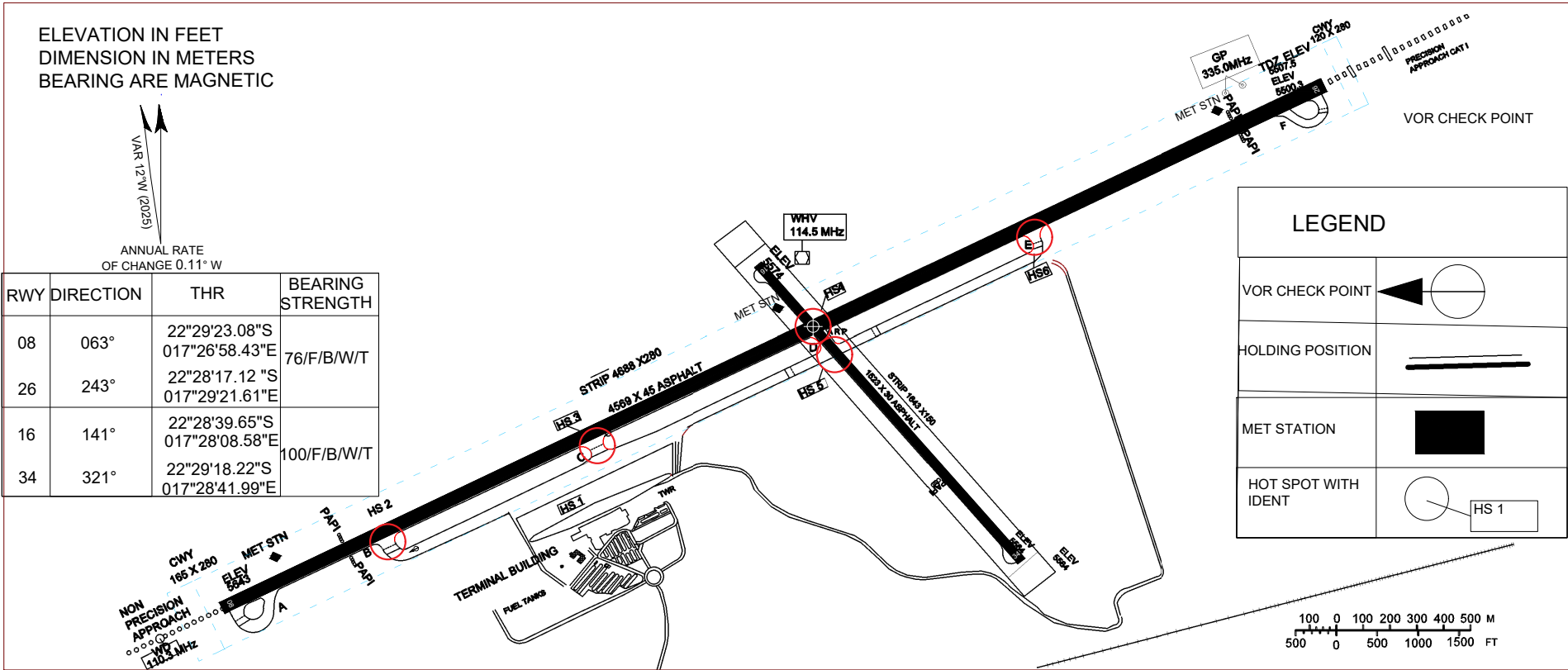
AERODROME CHART

22°28'52."S
017°28'13."E

ELEV 5641 FT

WINDHOEK TWR 118.1
WINDHOEK APP 120.5
WINDHOEK ATIS 126.2

HOSEA KUTAKO INTERNATIONAL AIRPORT

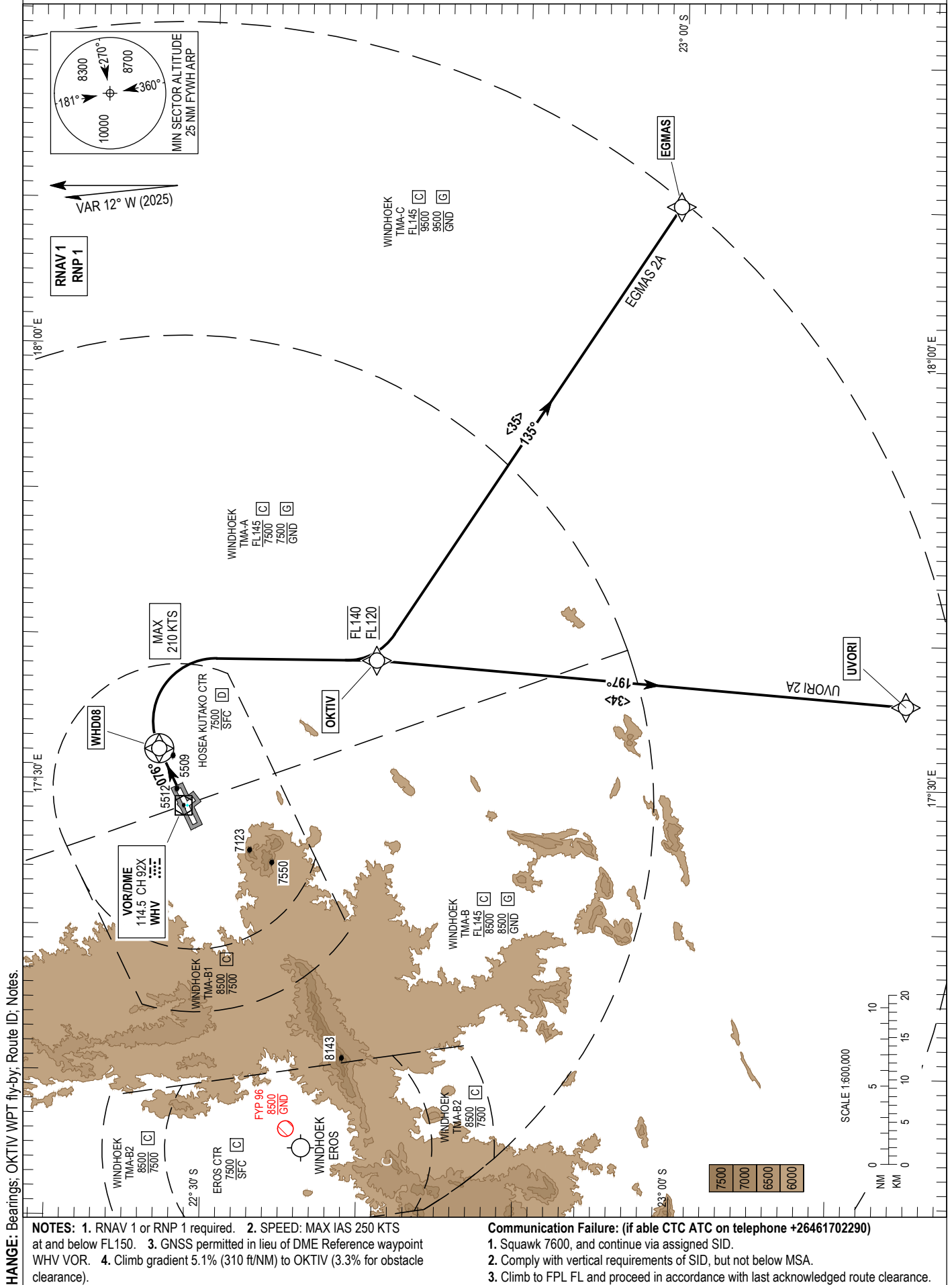


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Area Chart – ICAO (Reserved)

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WINDHOEK - HOSEA KUTAKO / INTL (FYWH)
RWY 08
JET ONLY (ACFT CAT A, B, C, D)
EGMAS 2A, UVORI 2A



EGMAS 2A SID RWY08

EGMA 2A

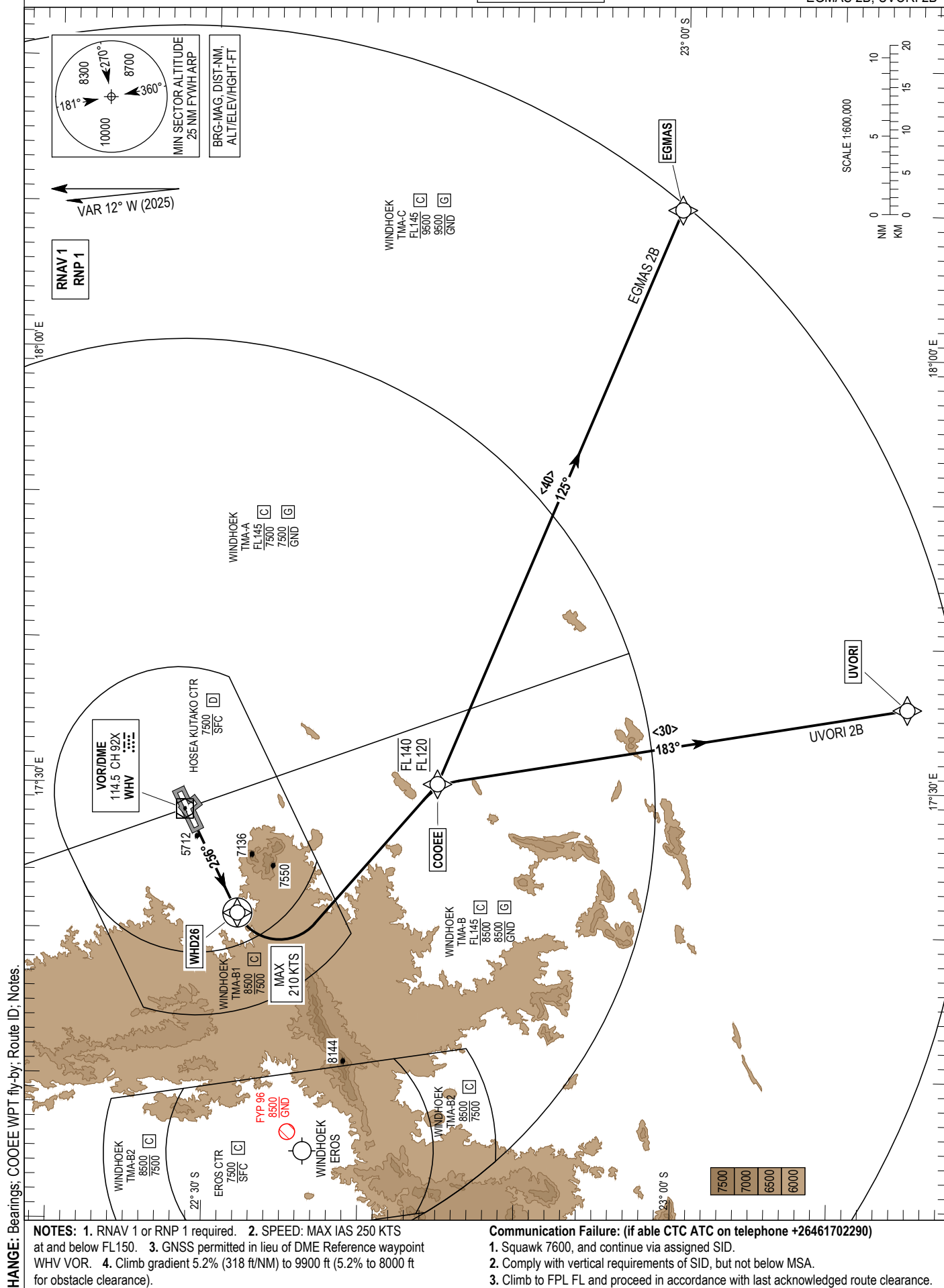
Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit (ft)	Speed Limit (kts)	Remarks
RNAV 1	WHD08	222700.5 / 0173207.8	CF	Fly-Over	063.6 / 076	-	-	210	R078 / D4.0 WHV
RNAV 1	OKTIV	224051.0 / 0173825.1	DF	Fly-By	-	-	-FL140/+FL120	250	Turn R
RNAV 1	EGMAS	225947.2 / 0181007.5	TF	Fly-By	122.9 / 135	34.8	-	-	-

UVORI 2A SID RWY08

UVOR 2A

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit (ft)	Speed Limit (kts)	Remarks
RNAV 1	WHD08	222700.5 / 0173207.8	CF	Fly-Over	063.6 / 076	-	-	210	R078 / D4.0 WHV (065.7
RNAV 1	OKTIV	224051.0 / 0173825.1	DF	Fly-By	-	-	-FL140/+FL120	250	Turn R
RNAV 1	UVORI	231445.1 / 0173549.0	TF	Fly-By	184.1 / 197	33.9	-	-	-

WINDHOEK - HOSEA KUTAKO / INTL (FYWH)
RWY 26
JET ONLY (ACFT CAT A, B, C, D)
EGMAS 2B, UVORI 2B



EGMAS 2B SID RWY26

EGMA 2B

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit (ft)	Speed Limit (kts)	Remarks
RNAV 1	WHD26	223205.1 / 0172106.3	CF	Fly-Over	243.6 / 256	-	-	210	R255 / D7.4 WHV
RNAV 1	COOEE	224446.4 / 0173011.0	DF	Fly-By	-	-	-FL140 /+FL120	250	Turn L
RNAV 1	EGMAS	225947.2 / 0181007.5	TF	Fly-By	112.2 / 125	39.8	-	-	-

UVORI 2B SID RWY26

UVOR 2B

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit (ft)	Speed Limit (kts)	Remarks
RNAV 1	WHD26	223205.1 / 0172106.3	CF	Fly-Over	243.6 / 256	-	-	210	R255 / D7.4 WHV
RNAV 1	COOEE	224446.4 / 0173011.0	DF	Fly-By	-	-	-FL140 /+FL120	250	Turn L
RNAV 1	UVORI	231445.1 / 0173549.0	TF	Fly-By	170.1 / 183	30.3	-	-	-

STANDARD ARRIVAL CHART -
INSTRUMENT (STAR) - ICAO

TRANS ALT 10000 FT
TRANS LEVEL by ATC

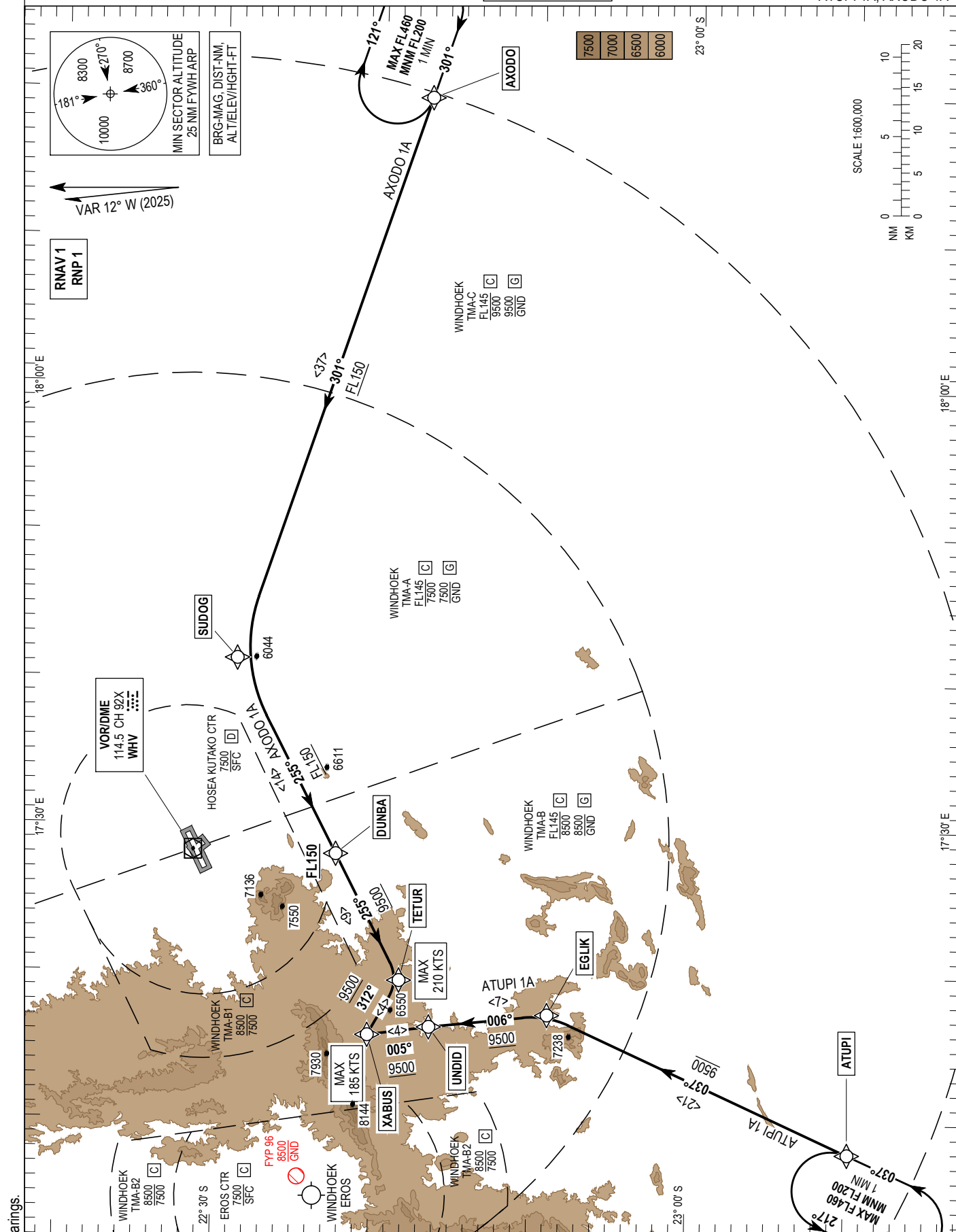
ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK - HOSEA KUTAKO / INTL (FYWH)

RWY 08

JET ONLY

(ACFT CAT A, B, C, D)
ATUPI 1A, AXODO 1A



CHANGE: Bearings.

ATUPI 1A STAR RWY08

ATUP 1A

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit (ft)	Speed Limit (kts)	Remarks
RNAV 1	ATUPI	231013.7 / 0170755.4	IF	-	-	-	- / +FL200	-	-
RNAV 1	EGLIK	225109.1 / 0171713.7	TF	Fly-By	024.3 / 037	20.9	- / +A9500	-	-
RNAV 1	UNDID	224341.2 / 0171619.5	TF	Fly-By	353.6 / 006	7.5	- / +A9500	210	Turn L
RNAV 1	XABUS	223948.6 / 0171546.0	TF	Fly-By	352.4 / 005	3.9	- / +A9500	185	-

AXODO 1A STAR RWY08

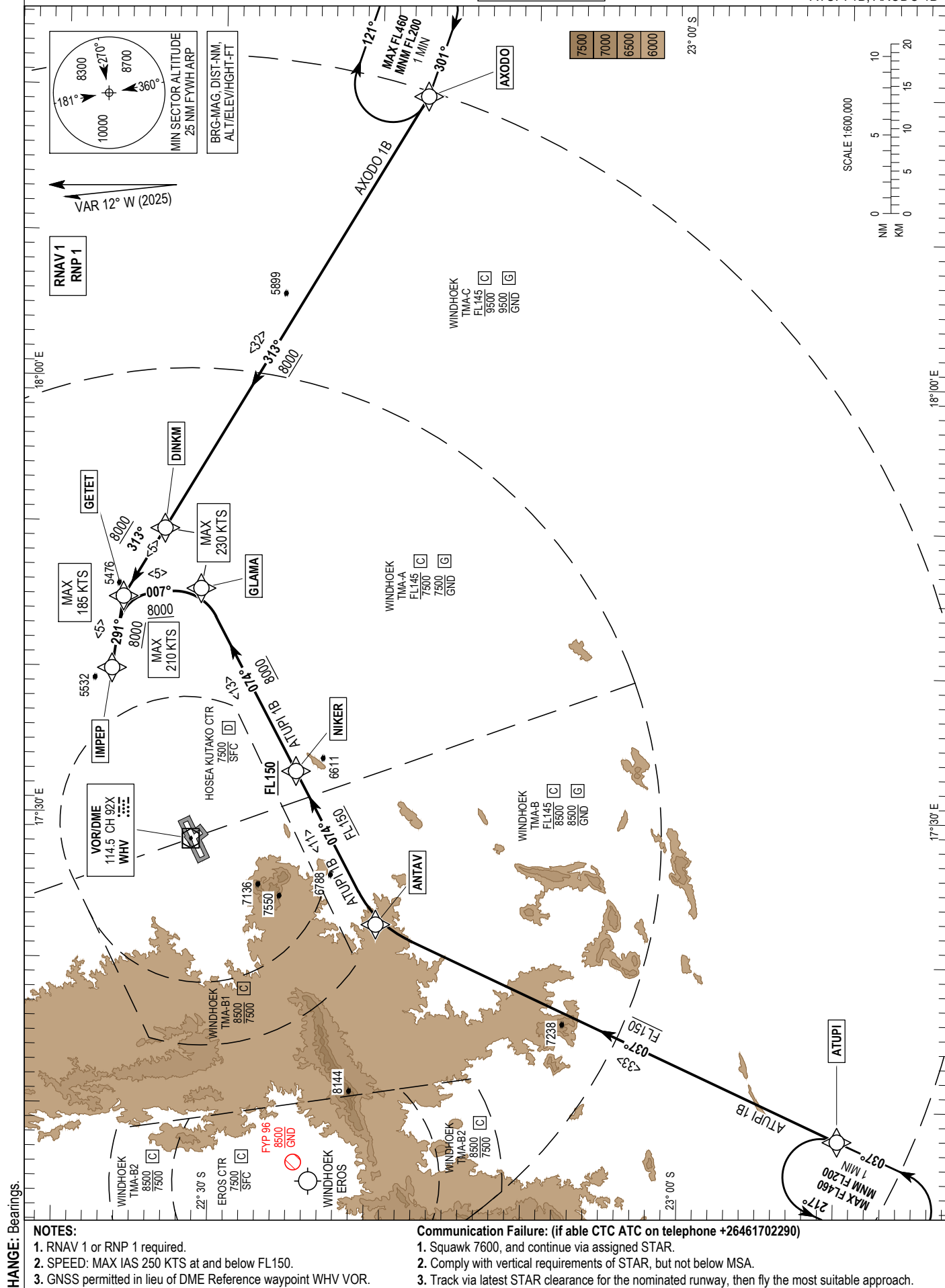
AXOD 1A

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit (ft)	Speed Limit (kts)	Remarks
RNAV 1	AXODO	224257.2 / 0181936.5	IF	-	-	-	- / +FL200	-	-
RNAV 1	SUDOG	223114.9 / 0174117.4	TF	Fly-By	288.1 / 301	37.3	- / +FL150	-	-
RNAV 1	DUNBA	223739.3 / 0172803.2	TF	Fly-By	242.4 / 255	13.8	- / +FL150	-	Turn L
RNAV 1	TETUR	224145.9 / 0171929.6	TF	Fly-By	242.6 / 255	8.9	- / +A9500	210	-
RNAV 1	XABUS	223948.6 / 0171546.0	TF	Fly-By	299.5 / 312	4.0	- / +A9500	185	Turn R

Hold Identification

Holding Fix	Latitude (S) / Longitude (E)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Level / Altitude (FL/ft)	Maximum Holding Level / Altitude (FL/ft)	Outbound time (min)	Direction of Turn
ATUPI	231013.7 0170755.4	024.0	037	315	+FL200	-FL460	1	L
AXODO	224257.2 0181936.5	287.9	301	315	+FL200	-FL460	1	R

WINDHOEK - HOSEA KUTAKO / INTL (FYWH)
RWY 26
JET ONLY (ACFT CAT A, B, C, D)
ATUPI 1B, AXODO 1B



ATUPI 1B STAR RWY26

ATUP 1B

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit (ft)	Speed Limit (kts)	Remarks
RNAV 1	ATUPI	231013.7 / 0170755.4	IF	-	-	-	- / +FL200	-	-
RNAV 1	ANTAV	224032.1 / 0172229.8	TF	Fly-By	024.5 / 037	32.5	- / +FL150	-	-
RNAV 1	NIKER	223517.8 / 0173258.9	TF	Fly-By	061.7 / 074	11.0	- / +FL150	250	Turn R
RNAV 1	GLAMA	222902.6 / 0174527.1	TF	Fly-By	061.7 / 074	13.1	- / +A8000	230	-
RNAV 1	GETET	222405.1 / 0174450.7	TF	Fly-By	353.5 / 007	5.0	- / +A8000	210	Turn L
RNAV 1	IMPEP	222325.2 / 0173954.0	TF	Fly-By	278.2 / 291	4.6	- / +A8000	185	-

AXODO 1B STAR RWY26

AXOD 1B

Nav. Spec.	WPT Name	Latitude (S) / Longitude (E)	Path Term	Fly-By Fly-Over	True Track / Mag Track	Distance (NM)	Upper Limit / Lower Limit (ft)	Speed Limit (kts)	Remarks
RNAV 1	AXODO	224257.2 / 0181936.5	IF	-	-	-	- / +FL200	-	-
RNAV 1	DINKM	222639.9 / 0174933.7	TF	Fly-By	300.2 / 313	32.2	- / +A8000	230	-
RNAV 1	GETET	222405.1 / 0174450.7	TF	Fly-By	300.5 / 313	5.1	- / +A8000	210	-
RNAV 1	IMPEP	222325.2 / 0173954.0	TF	Fly-By	278.2 / 291	4.6	- / +A8000	185	-

Hold Identification

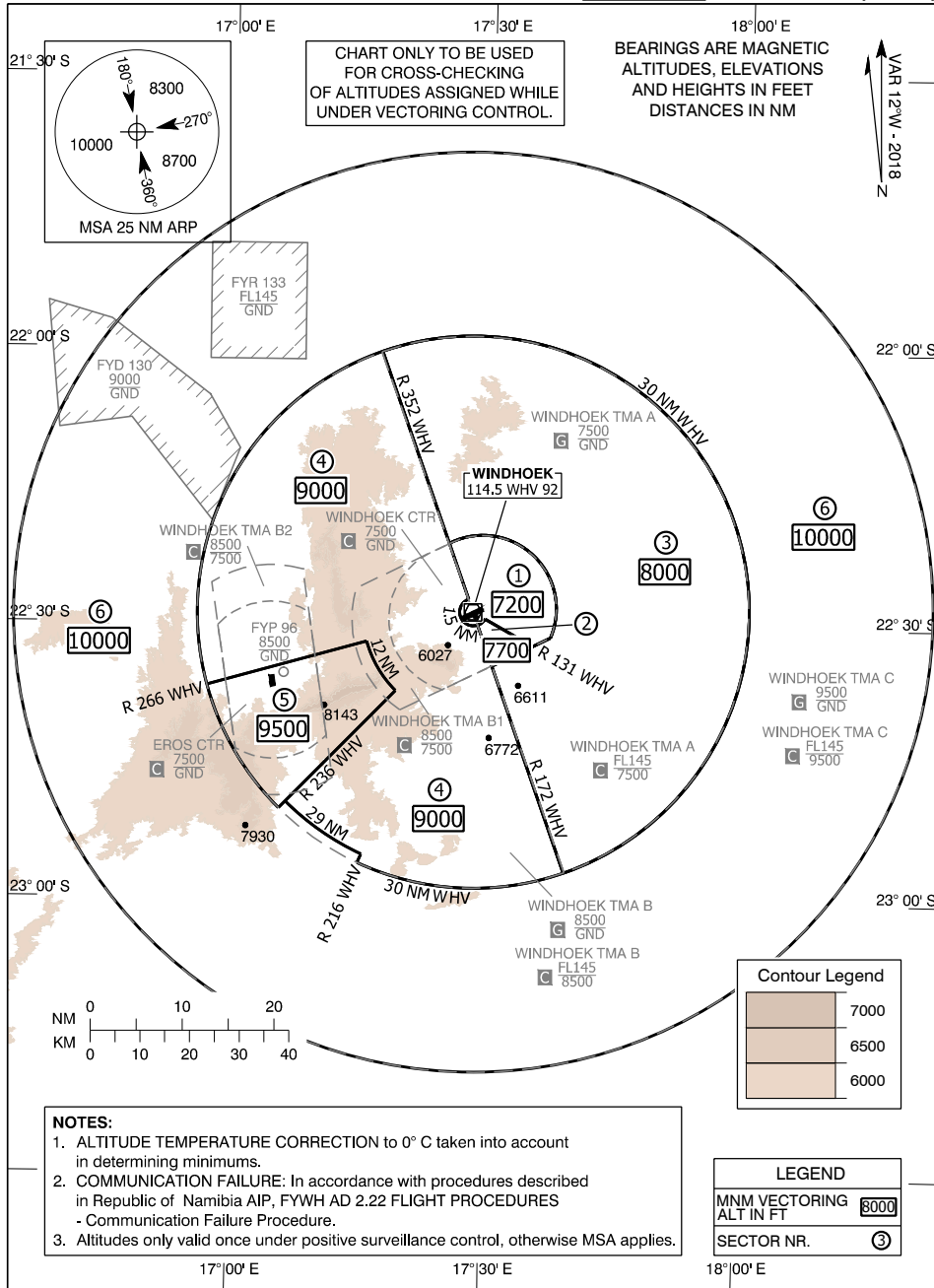
Holding Fix	Latitude (S) / Longitude (E)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Level / Altitude (FL/ft)	Maximum Holding Level / Altitude (FL/ft)	Outbound Time (min)	Direction of Turn
ATUPI	231013.7 0170755.4	024.0	037	315	+FL200	-FL460	1	L
AXODO	224257.2 0181936.5	287.9	301	315	+FL200	-FL460	1	R

**ATC SURVEILLANCE
MINIMUM ALTITUDE
CHART - ICAO**

AERODROME ELEV - 5643 FT
TRANSITION ALT - 10000 FT

ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK
Hosea Kutako/Intl.
(FYWH)

**CHANGES:** CHANGED ELEVATION

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

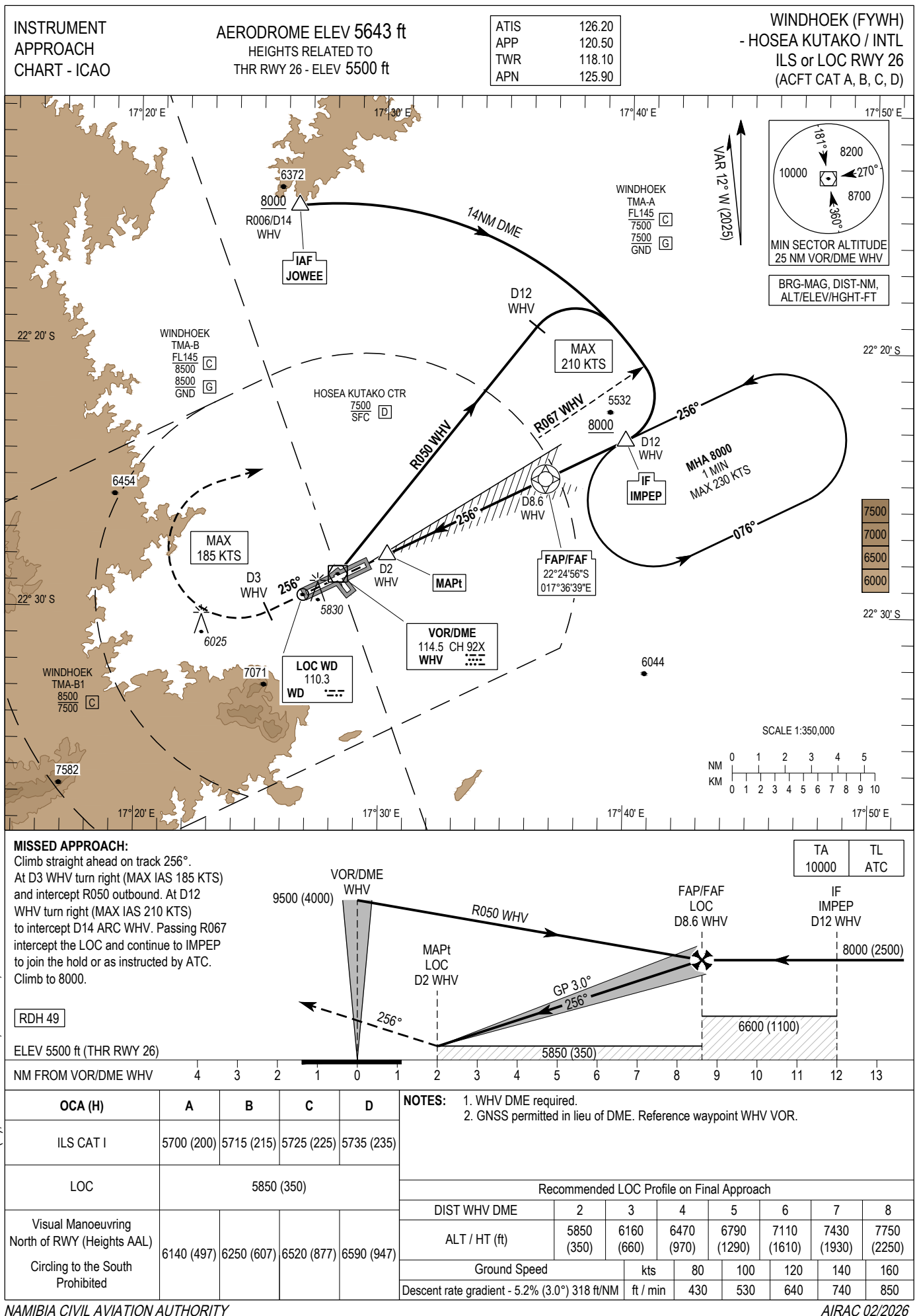
22°00'21"S 017°17'12"E, 22°27'14"S 017°27'41"E,
arc 1.5 NM radius centre 22°28'39"S 017°28'14"E,
22°30'03"S 017°28'47"E, 22°56'55"S 017°39'21"E,
arc 30 NM radius centre 22°28'39"S 017°28'14"E,
22°56'07"S 017°15'01"E, 22°55'13"S 017°15'28"E,
arc 29 NM radius centre 22°28'39"S 017°28'14"E,
22°49'33"S 017°06'26"E, 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



ILS RWY26 Approach

Descent Angle:	(3.00°)					
Fix	IAF JOWEE (D14 WHV)	IF IMPEP (D12 WHV)	FAP (D8.6 WHV)	TP (D3 WHV)	TP (D12 WHV)	VOR/DME WHV -
Fix Coordinates	221441.4S 0172627.6E	222325.2S 0173954.0E	222455.6S 0173638.7E	223006.4S 0172524.3E	221909.0S 0173612.2E	222838.5S 0172814.1E
Fix Formation Bearing (°T)	353.25 WHV	063.64 WD	063.64 WD	240.87 WHV	038.00 WHV	-
Fix Formation Distances	14.00 WHV	12.00 WHV	8.63 WHV	3.00 WHV	12.00 WHV	-

LOC only RWY26 Approach

Descent Angle:	(3.00°)						
Fix	IAF JOWEE (D14 WHV)	IF IMPEP (D12 WHV)	FAF (D8.6 WHV)	MAPt (D2.0 WHV)	TP (D3 WHV)	TP (D12 WHV)	VOR/DME WHV -
	221441.4S 0172627.6E	222325.2S 0173954.0E	222455.6S 0173638.7E	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	063.64 WD	063.64 WD	240.87 WHV	038.00 WHV	-
Fix Formation Distances	14.00 WHV	12.00 WHV	8.63 WHV	2.00 WHV	3.00 WHV	12.00 WHV	-

Hold Identification

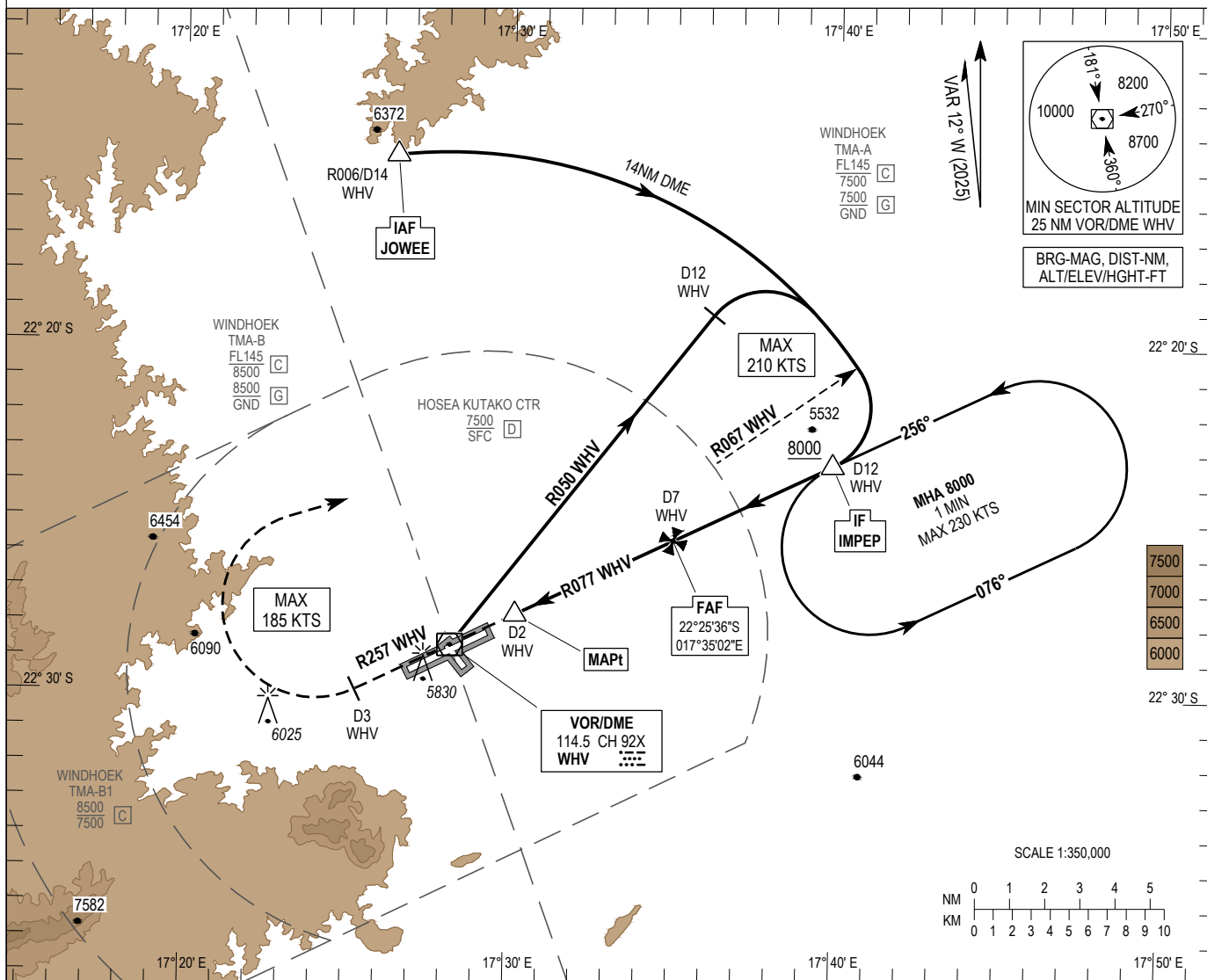
Holding Fix	Latitude (S) / Longitude (E)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Level / Altitude (FL/ft)	Maximum Holding Level / Altitude (FL/ft)	Outbound Time (min)	Direction of Turn
IMPEP D12 WHV	222325.2 0173954.0	243.5	256	230	+A8000	-	1	L

INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV 5643 ft
HEIGHTS RELATED TO
AD - ELEV 5643 ft

ATIS	126.20
APP	120.50
TWR	118.10
APN	125.90

WINDHOEK (FYWH)
- HOSEA KUTAKO / INTL
CIRCLING VOR RWY 26
(ACFT CAT A, B, C, D)

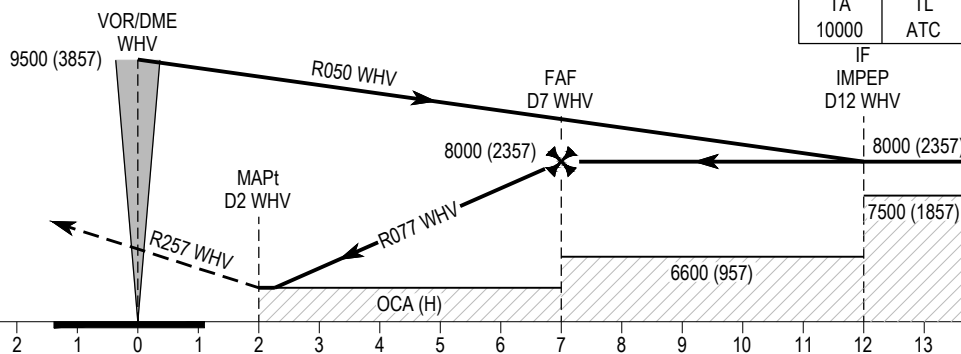


MISSED APPROACH:

Climb straight ahead on R257.
At D3 WHV turn right (MAX IAS 185 KTS)
and intercept R050 outbound. At D12
WHV turn right (MAX IAS 210 KTS)
to intercept D14 ARC WHV. Passing R067
turn right, intercept R077 inbound
and continue to IMPEP to join the hold
or as directed by ATC. Climb to 8000.

ELEV 5500 ft (THR RWY 26)

NM FROM VOR/DME WHV



OCA (H)	A	B	C	D
Visual Manoeuvring North of RWY (Heights AAL)	6140 (497)	6250 (607)	6520 (877)	6590 (947)
Circling to the South Prohibited				

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

Recommended Profile on Final Approach (3.0° / 5.2%)							
DIST WHV DME	3	4	5	6	7		
ALT / HT (ft)	6730 (1087)	7040 (1397)	7360 (1717)	7680 (2037)	8000 (2357)		
Ground Speed		kts	80	100	120	140	160
Descent rate gradient - 5.2% (3.0°) 320 ft/NM		ft / min	430	530	640	740	850

CHANGE: Notes.

VOR RWY26 Approach

Descent Angle:	5.24% (3.00°)						
Fix	IAF JOWEE (D14 WHV)	IF IMPEP (D12 WHV)	FAF - (D7.0 WHV)	MAPt - (D2.0 WHV)	TP - (D3 WHV)	TP - (D12 WHV)	VOR/DME WHV -
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	038.00 WHV	-
Fix Formation Distances	14.00 WHV	12.00 WHV	7.00 WHV	2.00 WHV	3.00 WHV	12.00 WHV	-

Hold Identification

Holding Fix	Latitude (S) / Longitude (E)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Level / Altitude (FL/ft)	Maximum Holding Level / Altitude (FL/ft)	Outbound Time (min)	Direction of Turn
IMPEP D12 WHV	222325.2S 0173954.0E	243.5	256	230	+A8000	-	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 (FYWH)

Kutako/Intl.

RNP RWY 08

MMN TEMP -15°C

MAX TEMP +48°C

CHANGES: Left base initial leg, FAF OCA, Airspace, Circling, Temp restriction, Holding, RDH, Initial & FAF WPT renamed.

Aircraft CAT		A	B	C	D		
OCA (H)	LNAV	6120 (478)					
	LNAV/VNAV	5980 (338)	6000 (358)	6010 (368)	6020 (378)		
Circling (Heights AAL)		6300 (659)	6500 (859)	8100 (2459)	8100 (2459)		
Circling - N of RWY (AAL)		6150 (509)	6260 (619)	6570 (929)	6630 (989)		
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	
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850	

NOTES:

1. Track shortening inside IAF not permitted.

Bearings are magnetic.

Altitudes, Elevation and Heights in feet. Distances in NM.

NAMIBIA CIVIL AVIATION AUTHORITY

AIRAC A02/2025

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track / Magnetic track	Distance [nm]	Turn direction	Upper limit / Lower limit	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	XABUS	22°39'48.57"S / 017°15'46.04"E	-	-	-	-	-	185	-	-
2	RNP APCH	TF	WH08I	22°34'49.38"S / 017°15'10.13"E	N	353.6 / 005	5.0	-	-	185	-	-
3	RNP APCH	TF	WH08A	22°32'53.88"S / 017°19'20.88"E	N	063.6 / 075	4.3	R	- / 8200	-	-	-
4	RNP APCH	TF	WH08S	22°30'29.98"S / 017°24'33.34"E	N	063.6 / 075	5.4	-	-	-	-	-
5	RNP APCH	TF	RW08	22°29'23.07"S / 017°26'58.44"E	Y	063.6 / 075	2.5	-	-	-	3.00 / 50	-
6	RNP APCH	CF	WHM01	22°28'24.27"S / 017°29'06.09"E	Y	063.6 / 075	-	-	-	210	-	085° WHV / D0.8 WHV
7	RNP APCH	DF	IBSAD	22°32'39.16"S / 017°10'17.90"E	N	-	-	L	-	210	-	-

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track / Magnetic track	Distance [nm]	Turn direction	Upper limit / Lower limit	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	APNUL	22°36'57.00"S / 017°10'31.00"E	-	-	-	-	-	-	-	-
2	RNP APCH	TF	WH08I	22°34'49.38"S / 017°15'10.13"E	N	063.8 / 076	4.8	-	-	-	-	-
3	RNP APCH	TF	WH08A	22°32'53.88"S / 017°19'20.88"E	N	063.6 / 075	4.3	-	- / 8200	-	-	-
4	RNP APCH	TF	WH08S	22°30'29.98"S / 017°24'33.34"E	N	063.6 / 075	5.4	-	-	-	-	-
5	RNP APCH	TF	RW08	22°29'23.07"S / 017°26'58.44"E	Y	063.6 / 075	2.5	-	-	-	3.00 / 50	-
6	RNP APCH	CF	WHM01	22°28'24.27"S / 017°29'06.09"E	Y	063.6 / 075	-	-	-	210	-	085° WHV / D0.8 WHV
7	RNP APCH	DF	IBSAD	22°32'39.16"S / 017°10'17.90"E	N	-	-	L	-	210	-	-

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track / Magnetic track	Distance [nm]	Turn direction	Upper limit / Lower limit	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	IBSAD	22°32'39.16"S / 017°10'17.90"E	-	-	-	-	-	185	-	-
2	RNP APCH	TF	WH08I	22°34'49.38"S / 017°15'10.13"E	N	115.6 / 127	5.0	-	-	185	-	-
3	RNP APCH	TF	WH08A	22°32'53.88"S / 017°19'20.88"E	N	063.6 / 075	4.3	L	- / 8200	-	-	-
4	RNP APCH	TF	WH08S	22°30'29.98"S / 017°24'33.34"E	N	063.6 / 075	5.4	-	-	-	-	-
5	RNP APCH	TF	RW08	22°29'23.07"S / 017°26'58.44"E	Y	063.6 / 075	2.5	-	-	-	3.00 / 50	-
6	RNP APCH	CF	WHM01	22°28'24.27"S / 017°29'06.09"E	Y	063.6 / 075	-	-	-	210	-	085° WHV / D0.8 WHV
7	RNP APCH	DF	IBSAD	22°32'39.16"S / 017°10'17.90"E	N	-	-	L	-	210	-	-

Hold Identification – AD 2.37

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
IBSAD	22°32'39.16"S / 017°10'17.90"E	115.7	127	-	9500	-	1	L

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 (FYWH)

Kutako/Intl. RNP RWY 26

MNM TEMP -15°C

MAX TEMP +51°C

MISSED APPROACH:		TRANSITION ALT 10000																	
Continuous climb to 8000.																			
At RW26 turn right (MAX IAS 210 kts) to IMPEP to join the hold.																			
RDH 50																			
THR ELEV 5500																			
NM THR RWY 26		4	3	2	1	0	1	2	3	4	5								
Aircraft CAT		A		B		C		D											
OCA (H)	LNAV	5950 (450)																	
	LNAV/VNAV	5920 (420)	5940 (440)	5950 (450)	5990 (490)														
Circling (Heights AAL)		6300 (659)	6500 (859)	8100 (2459)	8100 (2459)														
Circling - N of RWY (AAL)		6150 (509)	6260 (619)	6570 (929)	6630 (989)														
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													
Descent Rate (3.0°)	FT/MIN	425	530	635	745	850													
NOTES:																			
1. Track shortening inside IAF not permitted.																			
2. If above 8000ft at IMPEP, descent in the hold.																			
3. Arrival outside of the STARs to expect radar vectoring from ATC.																			
4. In case of radar failure route via IMPEP not below 10000ft and then to descend in the hold to 8000ft.																			
Bearings are magnetic.																			
Altitudes, Elevation and Heights in feet. Distances in NM.																			

NAMIBIA CIVIL AVIATION AUTHORITY

AIRAC A02/2025

Serial #	Navigational performance	Path descriptor	Waypoint identifier	Waypoint coordinates	Fly-Over	True track / Magnetic track	Distance [nm]	Turn direction	Upper limit / Lower limit	Speed [kts]	VPA [°] / TCH [ft]	Remarks
1	RNP APCH	IF	IMPEP	22°23'25.18"S / 017°39'53.96"E	-	-	-	-	- / 8000	-	-	-
2	RNP APCH	TF	WH26F	22°24'51.14"S / 017°36'48.04"E	N	243.6 / 255	3.2	-	- / 8000	-	-	-
3	RNP APCH	CF	RW26	22°28'17.12"S / 017°29'21.61"E	Y	243.6 / 255	-	-	-	-	3.00 / 50	083° WHV / D1.1 WHV
4	RNP APCH	DF	IMPEP	22°23'25.18"S / 017°39'53.96"E	N	-	-	R	-	210	-	-

Hold Identification – AD 2.37

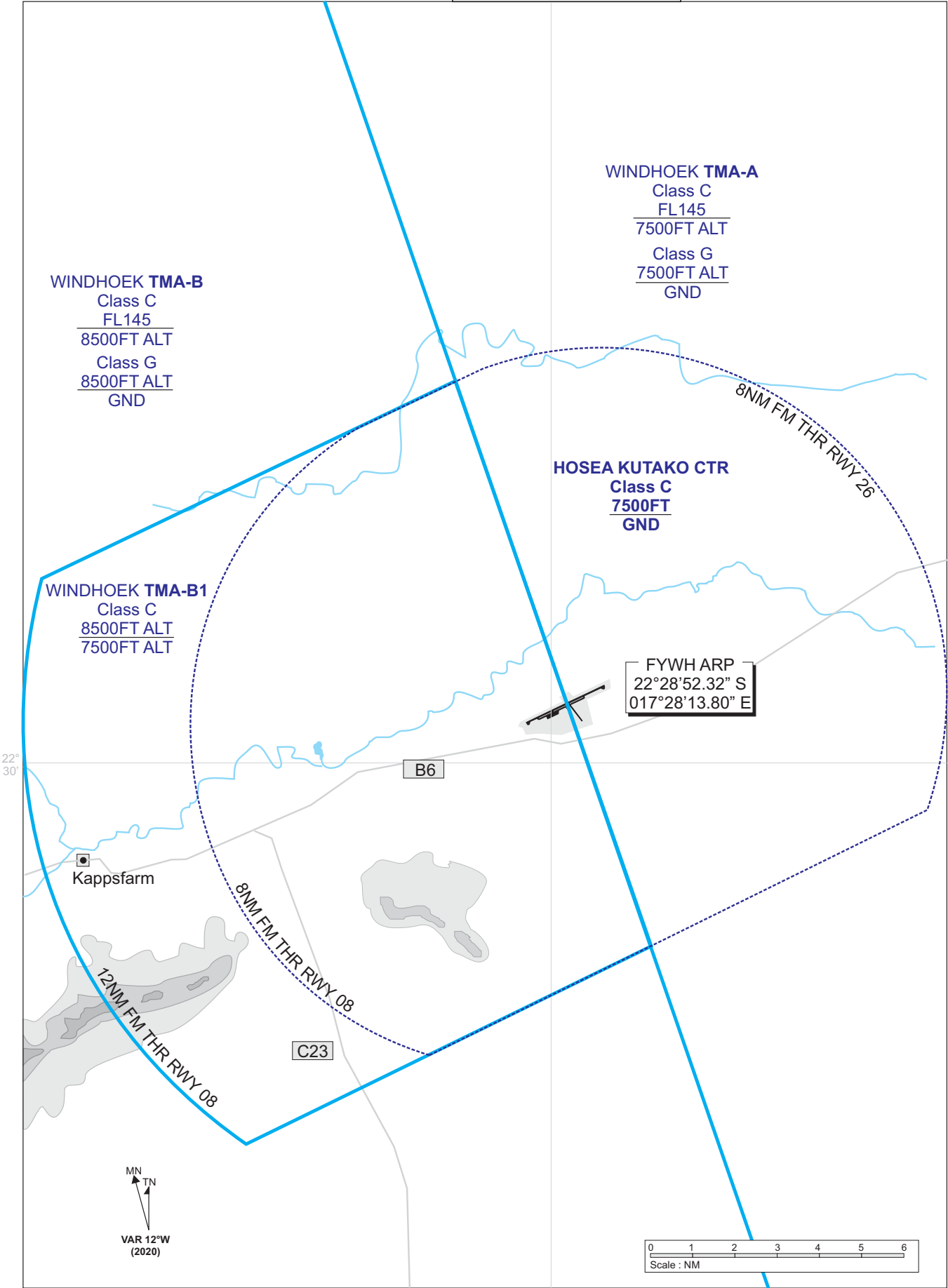
Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude/ Level (FL/ft)	Maximum Holding Altitude/ Level (FL/ft)	Outbound time (min)	Direction of Turn
IMPEP	22°23'25.18"S / 017°39'53.96"E	243.5	255	-	8000	-	1	L

VISUAL
APPROACH
CHART

AERODROME ELEV 5643'

HOSEA KUTAKO:
TWR 118.1 Mhz
ATIS 126.2 Mhz

HOSEA KUTAKO CTR



CHANGES: AERODROME ELEVATION

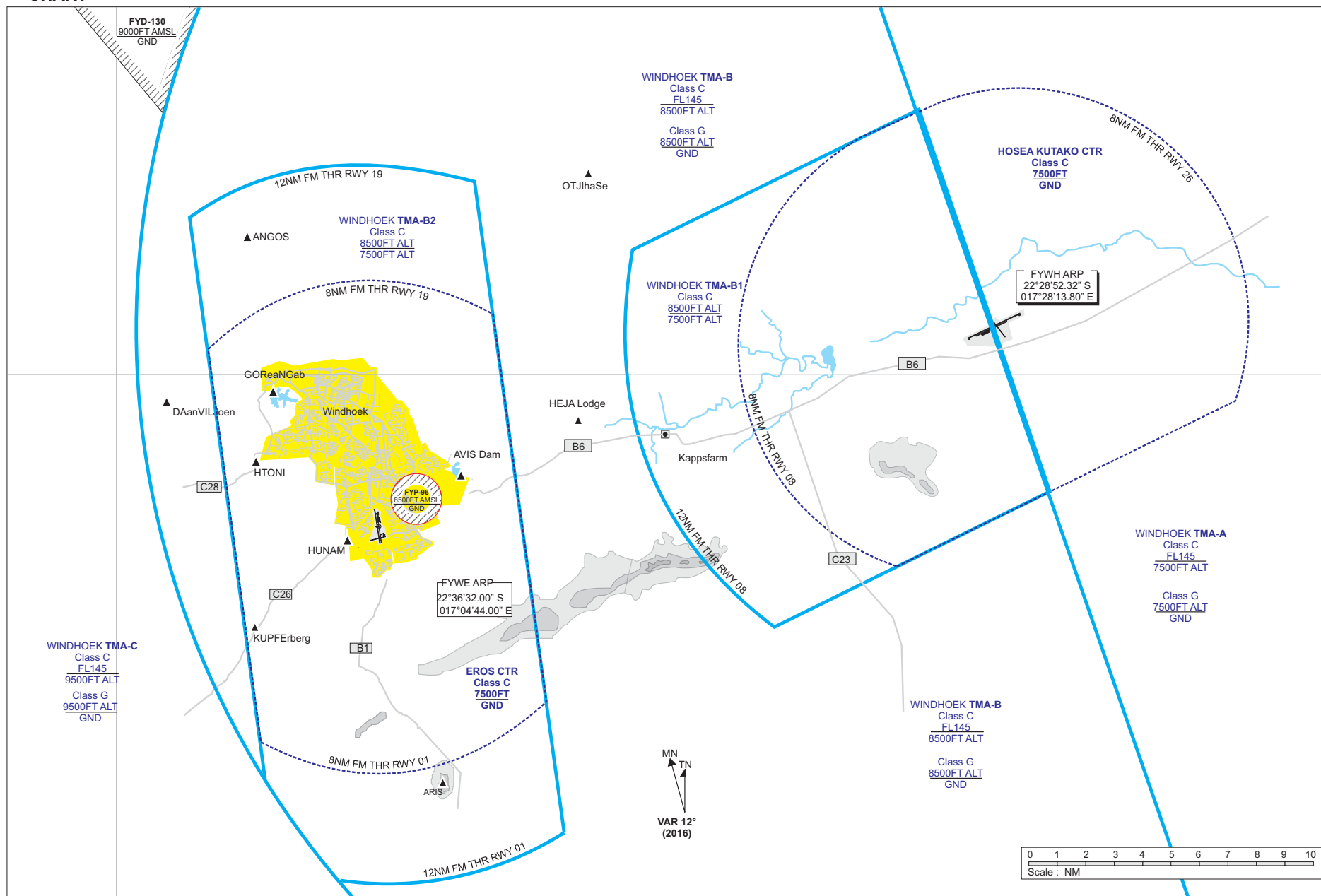
17°30'

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VISUAL APPROACH
CHART

EROS & HOSEA KUTAKO CTR

CTR
NAMIBIA

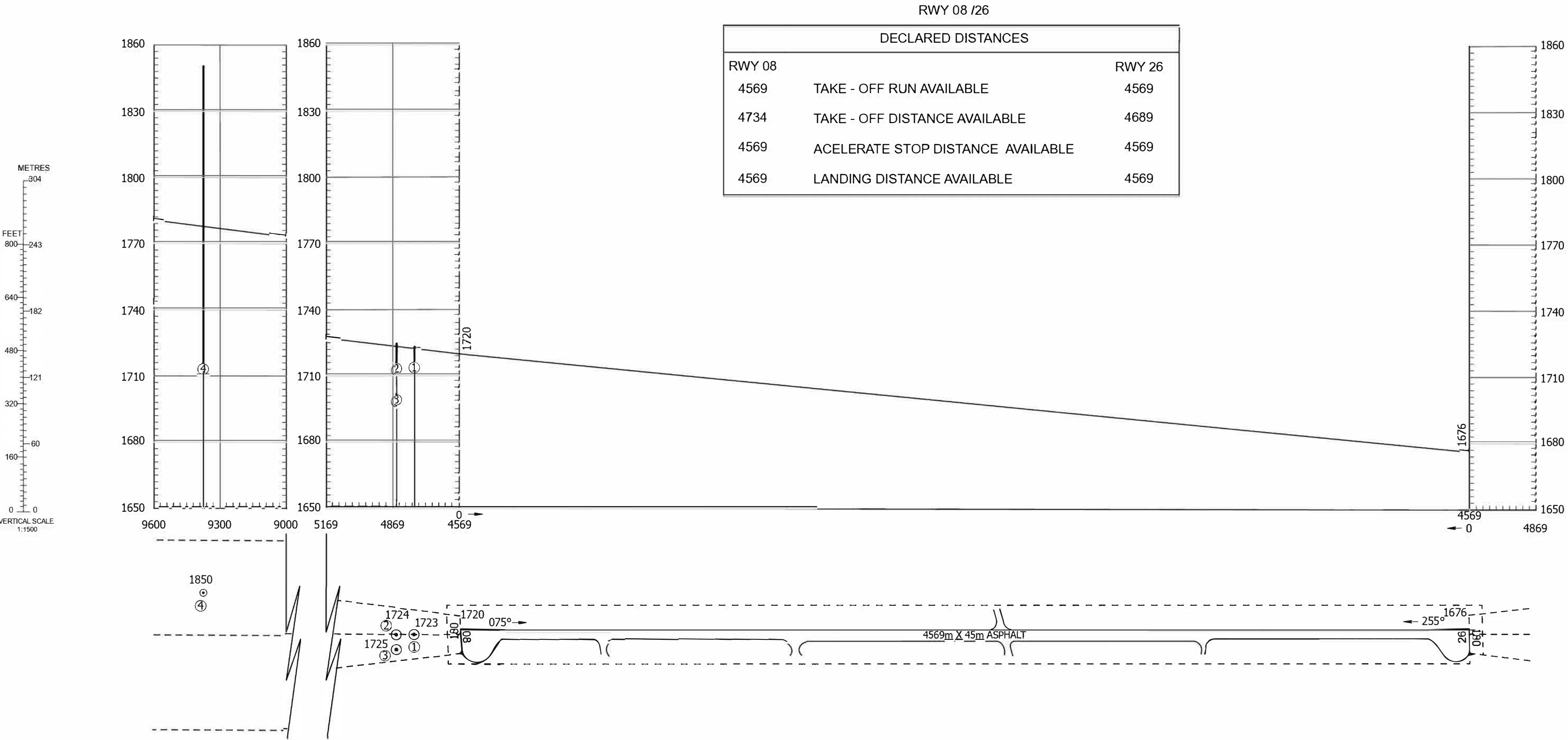


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DIMENSIONS AND ELEVATIONS IN METRES

RWY 08 / 26

MAGNETIC VARIATION 12°W - JAN 2020



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