

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.	<i>ARP co-ordinates and site at AD</i>	223627S 0170445E
2.	<i>Direction and distance from (city)</i>	SE 2 NM from Windhoek
3.	<i>Elevation/reference temperature</i>	5 575 FT/1 699 M
4.	<i>MAG VAR/annual change</i>	14° W (1995)
5.	<i>AD administration, address, telephone, telefax, telex, AFS</i>	<p>Namibia Airports Company (NAC) The Airport Manager Private Bag 13357 WINDHOEK</p> <p>ATC Tel: +264 61 702090 S/B Tel: +264 61 2955500 APM Tel: +264 61 2955501 AD Fax: +264 61 2955522</p> <p>Email: eros@airports.com.na Briefing Tel: +264 61 702080/1 Fax: +264 61 702088 Telex: Nil info available AFS: FYWEYDYX</p>
6.	<i>Types of traffic permitted (IFR/VFR)</i>	IFR (departures only)/VFR
7.	<i>Remarks</i>	Public aerodrome, designated port of entry/exit

FYWE AD 2.3 OPERATIONAL HOURS

1.	<i>AD administration</i>	AD HO-Summer MON - FRI 0400 - 1900 SAT 0400 - 1800 SUN 0500 - 1800 (All times UTC) AD HO-Winter MON - FRI 0500 - 1900 SAT 0500 - 1800 SUN 0600 - 1800 (All times UTC)
2.	<i>Customs and immigration</i>	HOD as AD administration Telephone: +264 61 2092533 or +264 61 232268
3.	<i>Health and sanitation</i>	Nil facilities
4.	<i>AIS briefing office</i>	HOD as AD administration Tel: + 264 61 702080/1 Fax: +264 61 702087
5.	<i>ATS reporting office (ARO)</i>	HOD as AD administration
6.	<i>MET briefing office</i>	HOD as AD administration
7.	<i>ATS</i>	As per NOTAM
8.	<i>Fuelling</i>	Fuel HOD MON - FRI 0600 - 1100 and 1200 - 1600 SAT & SUN 0600 - 1000 and O/R
9.	<i>Handling</i>	Same as AD Administration
10.	<i>Security</i>	24 HRS
11.	<i>De-icing</i>	Nil
12.	<i>Remarks</i>	No aircraft to operate outside AD HOD except in an emergency or prior permission obtained(Refer AIC 40.1.1)

FYWE AD 2.4 HANDLING SERVICES AND FACILITIES

1.	<i>Cargo-handling facilities</i>	4 Ton
2.	<i>Fuel/oil types</i>	AVGAS;AVTUR AO 100 D100;ASO W100, 120
3.	<i>Fuelling facilities/capacity</i>	Bowser
4.	<i>De-icing facilities</i>	Nil facilities
5.	<i>Hangar space for visiting aircraft</i>	Nil
6.	<i>Repair facilities for visiting aircraft</i>	West Air/Aviation Centre Air Namibia Major aircraft and engine repairs
7.	<i>Remarks</i>	Fuel Supplier: 1. BP/Air Namibia Tel : +264 61 232900 Radio FREQ: 122.1 MHz

7.	<i>Remarks</i>	<p>2. Westair/Engen Tel :+ +26461221091</p> <p>3. Wings Over Africa Tel/Fax: +264 61 255001/2 (After HR): +26481 368 1578</p> <p>4. Radio FREQ: 123.40 MHz</p> <p>5. Company Name: PUMA ENERGY NAMIBIA (PTY) LTD Postal Address: PO Box 3594, Windhoek, Namibia Tel: +264 61 232900 / +27 61 379300 Fax: +264 61 379301 E-mail: efsman@iway.na / paula.kimm@puma-energy.com / Riaan.vanwyk@puma-energy.com Fuel attendant's CTC TEL : +264 61 232900 / +264 811290411 / +264 811295101 After HR CTC TEL: +264 811290097 / +264 811241881</p>
----	----------------	--

FYWE AD 2.5 PASSENGER FACILITIES

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

FYWE AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	<i>AD category for fire fighting</i>	CAT 4
2.	<i>Rescue equipment</i>	<p>Fire Tenders:</p> <p>1. Panther (6X6) - 12500L water, 1500L foam, 250kg dry powder</p> <p>2. Panther (4X4) 6200L water, 750L foam and 250 kg dry powder</p>
3.	<i>Capability for removal of disabled aircraft</i>	NIL
4.	<i>Remarks</i>	<p>Fire fighting services HOD: Same as AD under AD 2-2.</p> <p>-8000L water, 1100L foam and 50kg dry powder are for the Standby Fire Engine</p> <p>-Shift A has six(6) and Shift B has six (6) trained Rescue Officers</p>

FYWE AD 2.7 SEASONAL AVAILABILITY - CLEARING

Nil facilities available.

FYWE 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>	Width: 12 M Surface: Asphalt Strength: Nil info
3.	<i>ACL location and elevation</i>	Location: THR RWY 27 Elevation: 5579 FT
4.	<i>VOR/INS checkpoints</i>	Nil facilities
5.	<i>Remarks</i>	

FYWE 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: Designation, THR, LDZ, side-stripe and centre line markings TWY: Centre line, holding position at intersection marked
3.	<i>Stop bars</i>	Nil facilities
4.	<i>Remarks</i>	Nil

FYWE AD 2.10 AERODROME OBSTACLES

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

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

FYWE AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	<i>Associated Met office</i>	Windhoek
2.	<i>Hours of service MET office outside hours</i>	24 HRS
3.	<i>Office responsible for TAF preparation Periods of validity</i>	Windhoek 6 HR
4.	<i>Type of landing forecast Interval of issuance</i>	TREND 2 HR
5.	<i>Briefing/consultation provided</i>	T
6.	<i>Flight documentation Language(s) used</i>	C, TB, PL
7.	<i>Charts and other information available for briefing or consultation</i>	S, U, P, W
8.	<i>Supplementary equipment available for providing information</i>	WXR, APT
9.	<i>ATS units provided with information</i>	ADC
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	31.3	28.7	27.6	26.1	23.1	20.4	21.2	24.1	26.9	29.6	29.6	30.2
Min	17.7	16.3	14.4	9.3	5.7	2.8	2.4	5.2	8.5	12.3	15.3	16.4
Mean pressure for each month of the year at approximate the times of MAX and MIN temperatures in hPa												
Max	827.7	829.0	829.7	830.0	831.1	832.3	833.2	832.1	831.0	829.3	829.3	828.3
Min	828.9	829.6	831.0	831.4	832.4	833.6	834.8	833.8	832.8	830.9	830.3	829.4

FYWE AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

<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
01	351.19°	1983 x 30	LCN 64 Asphalt	S223649.88 E0170449.59 GUND 31.8 M	5575 FT
19	171.19°	1983 x 30	LCN 64 Asphalt	S223546.57 E0170439.03 GUND 31.8 M	5510 FT
09	075.54°	1005 x 30	GRAV with slurry seal top	S223648.63 E0170429.47 GUND 31.8 M	5572 FT
27	255.54°	1005 x 30	GRAV with slurry seal top	S223640.57 E0170503.11 GUND 31.8 M	5568 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	1. Slurry seal on RWY 09/27 2. RWY 19 touchdown displaced by 300 M from THR

FYWE AD 2.13 DECLARED DISTANCES

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

<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	2072	2132	2158	1975	Nil
19	2000	2060	2068	2000	Nil
09	1005	1005	1005	1005	Nil
27	1005	1005	1005	1005	Nil

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

<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	1975	1975	1975	1975	Nil
19	1975	1975	1975	1975	Nil
09	NU	NU	NU	NU	NU
27	NU	NU	NU	NU	NU

FYWE AD 2.14 APPROACH AND RUNWAY LIGHTING

<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 info	Green	PAPI, Angle 4.3°	Nil info	Nil info
19	Nil info	Green	PAPI, Angle 3°	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
1830 M/60 M, White/LIH	Red	Nil info	Last 200M of RWY amber
1830 M/60 M, White/LIH	Red	Nil info	Nil

FYWE AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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

FYWE AD 2.16 HELICOPTER LANDING AREA

Nil facilities available.

FYWE AD 2.17 ATS AIRSPACE

1.	<i>Designation and lateral limits</i>	Windhoek/Eros CTR Circle radius 5 NM, Centre at S223627 0170445E
2.	<i>Vertical limits</i>	GND/ 9500 FT ALT
3.	<i>Airspace classification</i>	C
4.	<i>ATS unit call sign Language(s)</i>	Eros Tower English
5.	<i>Transition altitude</i>	10 000 Feet
6.	<i>Remarks</i>	Nil

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

FYWE AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Nil facilities available.

FYWE AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Aerodrome regulations

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

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

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

1.4 *Night operations*

No flying outside AD Operational Hours.

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

2. Taxiing to and from stands

Nil limits.

3. Parking area for small aircraft (general aviation)

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

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

4. Parking area for helicopters

Nil limits.

5. Apron - Taxiing during winter conditions

Nil limits.

6. Taxiing - Limitations

Nil limits.

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

7.1 Windhoek Flight Training Centre.

7.2 West Air.

7.3 Air Namibia.

7.4 NDF.

8. Helicopter traffic - Limitation

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

9. Removal of disabled aircraft from runways

Nil limits.

FYWE AD 2.21 NOISE ABATEMENT PROCEDURES

1. Departure from RWY 01/09/27 shall maintain runway heading until passing 6500 feet before a turn is made or passing the State Hospital when departing from RWY 01.
2. Departures from RWY 19 shall maintain runway heading until passing 6000 feet.
3. All traffic inbound to Eros from the South, South-East and South-West shall be 7000 feet or higher by 15 miles from Eros and, all other traffic shall be 6500 feet or higher by 15 miles.
4. All low level flights outbound from Eros will climb to 6500/7000 feet until 15 miles out.
5. Traffic in the Eros circuit will remain west of the western bypass (when joining downwind for RWY 01/19).
6. Simulated engine failure after take-off will be done overhead the David Hosea Merero Road.
7. Bad weather circuits (training) will be kept to minimum and only between the hours of 08h00 (local) and 17h00 (local).

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

FYWE AD 2.22 FLIGHT PROCEDURES

1. General

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

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

IFR inbound traffic are not allowed in EROS CTR.

3. Procedures within Eros CTR

3.1 Radar vectoring and sequencing

Nil facility.

3.2 Surveillance radar approaches

Nil facility.

3.3 Precision radar approach

Nil facility.

3.4 Communication failure

- a) Squawk 7600
- b) Phone TWR +264 61 702090.
- c) Enter via Toni 7500FT. Proceed to overhead the field. Observe other traffic and transmit blind your intentions.
- d) Flash LDG lights and watch TWR for optical signals.

FYWE AD 2.23 ADDITIONAL INFORMATION

1. Bird concentrations in the vicinity of the aerodrome

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

2. All flights by night to:

2.1 Depart RWY 01.

2.2 Land RWY 19.

3. Paragliding

3.1 Paragliding activities take place at Gross Herzog tower (2442S01704E) at 6,3NM from Eros. GND/150FT AGL Saturdays and Public Holidays.

4. Para-jump exercises over weekends.

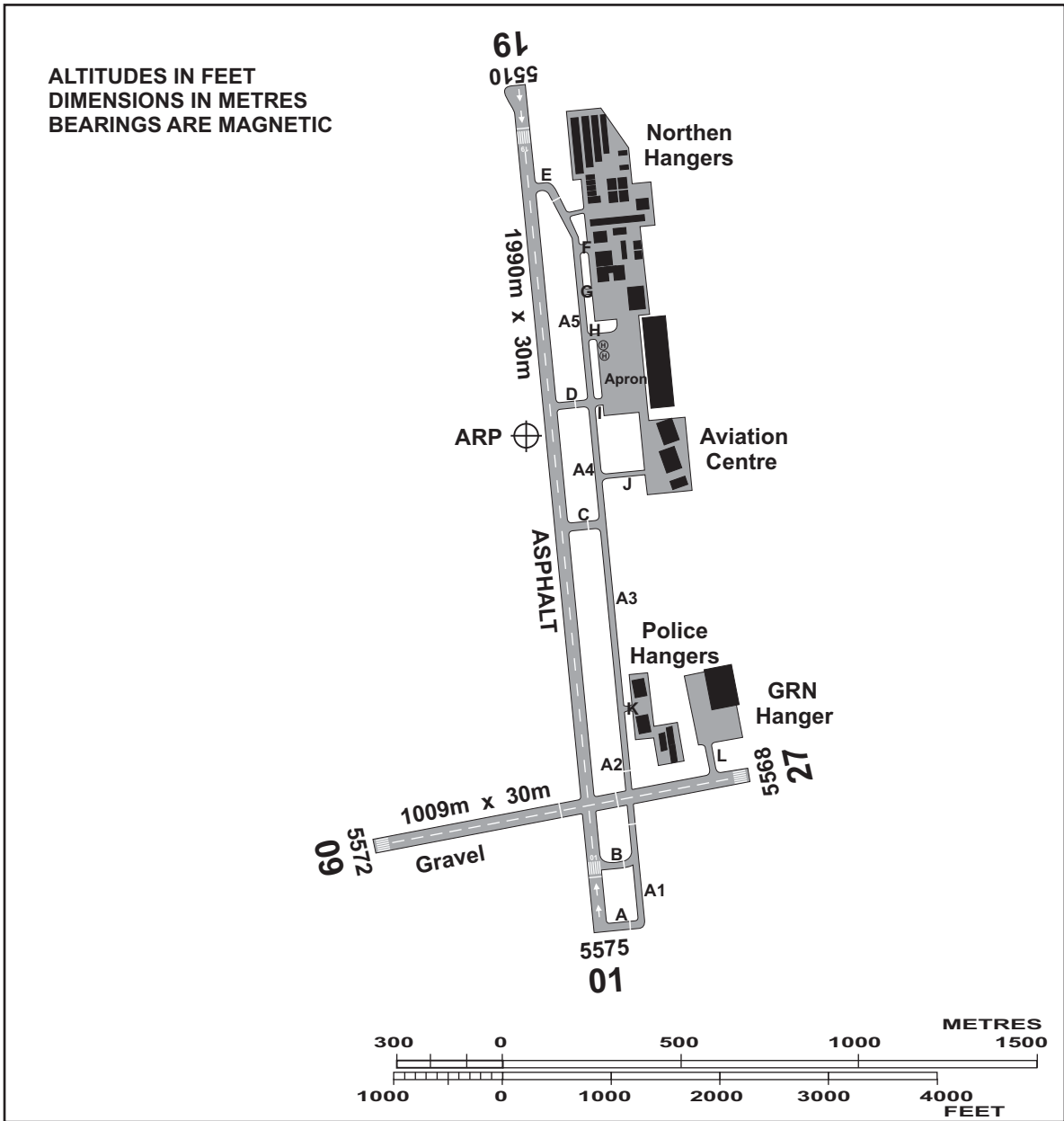
FYWE AD 2.24 CHARTS RELATED TO WINDHOEK (EROS)

ICAO Charts		
No	Chart Type	Page No
1	Aerodrome Chart-ICAO	FYWE AD 2-14
2	RADAR TERRAIN CHART: Windhoek TMA	FYWE AD 2-15
3	Visual Approach Chart - ICAO	FYWE AD 2-17

Elev 5575	Var 14°W	ARP	S22°36'27" E017°04'45"
---------------------	--------------------	-----	---------------------------

**EROS
AERODROME**

EROS Tower 118.7	WE - 1
	Eff 30 May 13



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

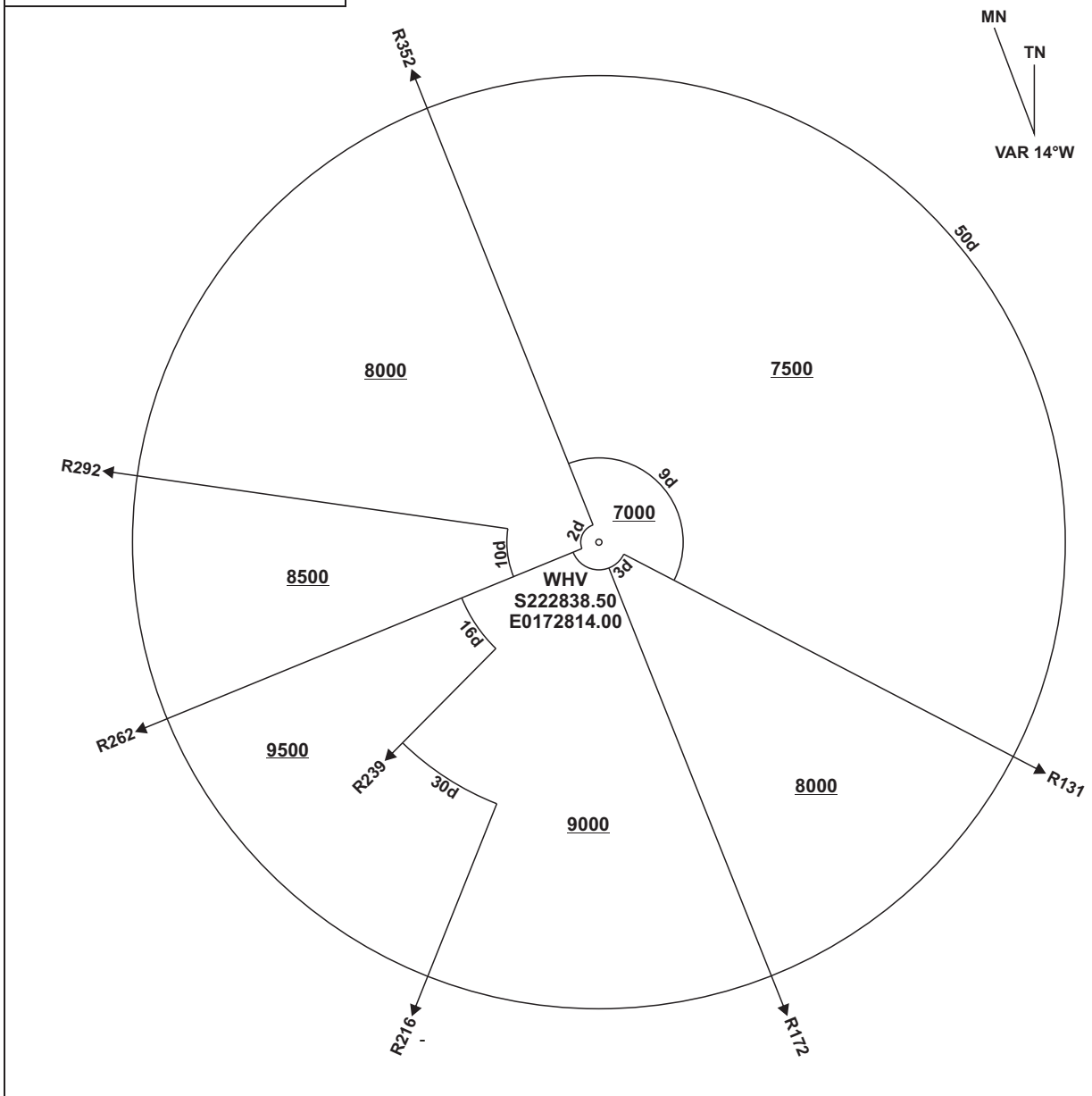
OTHER LIGHTING: REDL, RENL

TAXIWAY WIDTHS 12m asphalt.	1. Night operations - Take off from RWY 01 only - Landing on RWY 19 only 2. Night flying training only permitted when ATC is in operation.
Rev : Revised	

**RADAR TERRAIN CHART
 WINDHOEK TMA**

Elev WH 5641 WE 5575	Windhoek Approach 120.5	Tower WH 118,1 WE 118,7	ATIS WH 126,2 WE 126,4	RAD-01
				EFF 30-MAY-2013

BEARINGS ARE MAGNETIC
 ALTITUDES, ELEVATIONS AND
 HEIGHTS ARE IN FEET
 DISTANCES IN NM



A minimum vertical clearance of 1000ft is applied up to WHV 20d and 1000ft thereafter.

Note 1: Only to be used for cross checking of assigned altitudes.

Note 2: Altitudes only valid once under positive surveillance control, otherwise MSA applies.

INTENTIONALLY LEFT BLANK

VISUAL APPROACH CHART – ICAO	AD ELEV 5575 FEET TA 10,000 AMSL	EROS TOWER 118.700	AD 2 FYWE EROS NAMIBIA															
<p>Entry altitudes: CTR entry alt is 7,500 ft or higher except entry via OTJISand via KUPFE; entry 8,000 ft or higher</p> <p>COM failure:</p> <ol style="list-style-type: none"> 1. Squawk 7600 2. Phone TWR 061-702090 3. Enter the CTR via HTONI 7,500 ft and continue overhead the field. Observe other traffic and transmit blind your intentions. 4. Flash LDG lights and watch TWR for optical signals 	<table border="1" style="border-collapse: collapse; width: 100%;"> <thead> <tr> <th style="padding: 2px;">RWY</th> <th style="padding: 2px;">THR ELEV</th> <th style="padding: 2px;">VASIS</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">01</td> <td style="padding: 2px;">5575</td> <td style="padding: 2px;">4,3°</td> </tr> <tr> <td style="padding: 2px;">19</td> <td style="padding: 2px;">5510</td> <td style="padding: 2px;">3°</td> </tr> <tr> <td style="padding: 2px;">09</td> <td style="padding: 2px;">5572</td> <td style="padding: 2px;">NIL</td> </tr> <tr> <td style="padding: 2px;">27</td> <td style="padding: 2px;">5568</td> <td style="padding: 2px;">NIL</td> </tr> </tbody> </table>	RWY	THR ELEV	VASIS	01	5575	4,3°	19	5510	3°	09	5572	NIL	27	5568	NIL	<p>Entry/Exit points: GORNG 223142.97S 0170031.00E HEJAL 223210.82S 0171140.29E KUPFE 223925.67S 0170003.35E</p> <p>VFR Holding: HAVIS 223425.28S 0170750.20E HTONI 223409.79S 0170000.64E HUNAM 223641.64S 0170324.92E</p> <p>Waypoint DAVIL 223217.24S 0165705.69E OTJIS 222531.68S 0171028.99E POWSN 223043.48S 0170444.15E</p>	
RWY	THR ELEV	VASIS																
01	5575	4,3°																
19	5510	3°																
09	5572	NIL																
27	5568	NIL																

INTENTIONALLY LEFT BLANK