

AD 2. AERODROMES

FYLZ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

FYLZ - LÜDERITZ AERODROME

FYLZ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	264107.38S 0151444.32E
2.	Direction and distance from (city)	5 NM Southeast of Lüderitz
3.	Elevation/reference temperature	458 FT/38.72°
4.	Geoid undulation at AD ELEV PSN	105 FT
5.	Magnetic (MAG) Variation (VAR)/Annual change	17°W (2025)/0.14°W increasing
6.	Name of aerodrome operator, address, telephone, telefax numbers, e-mail address, AFS address and, if available, website address	Namibia Airports Company P.O. Box 927, Lüderitz, Namibia Mr Given Sisamu Airport Supervisor Contact details: Tel: +264 63 202035 Telefax: NIL Cell: +264 81 124 3072 (during or after hours) Fax: +264 64 202037 Email: sisamug@airports.com.na Website: www.airports.com.na AFS: NIL
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR
8.	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
2.	Customs and immigration	Available on request
3.	Health and sanitation	NIL
4.	Aeronautical Information Service (AIS) briefing office	NIL
5.	ATS reporting office (ARO)	NIL
6.	MET briefing office	NIL
7.	ATS	As AD Administration
8.	Fuelling	As AD Administration
9.	Handling	NIL
10.	Security	H24
11.	De-icing	NIL

12.	Remarks	NAMRA/Customs and Excise Contact Details Tel: +264 63 202259 Cell: +264 85 6776286 Immigration Contact Details Tel: +264 81 9510394 Cell: +264 81 3623862 Air Traffic Services Contact Details Tel: +264 63 703590/202228 Additional Tel: +264 63 703591 Cell: +264 81 2997150 ATC Fax: +264 63 703599 Telefax: +264 63 202037 24-hour prior notification required for operations outside published hours, except for medevac and mercy flights. On public holidays, the aerodrome follows the normal operating hours designated for that specific day of the week.
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FYLZ AD 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	NIL
2.	Fuel / oil types	Jet A1 & AVGAS
3.	Fueling facilities /capacity	Southern Energy Company P.O Box 1228 Walvis Bay Tel/Fax: +264 63 203605 Refueller: Ronaldo Cell: +264 81 384 0440 William Cell: +264 81 694 1007 SDBY Cell: +264 81 150 2462 Email: Lüderitz@sec.co.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 (Westair Helicopters) 30 000 Litre Jet A1 Container Tank 5 (Westair Helicopters)
4.	De-icing facilities	NIL
5.	Hangar space for visiting aircraft	NIL
6.	Repair facilities for visiting aircraft	NIL
7.	Remarks	NIL

FYLZ AD 2.5 PASSENGER FACILITIES

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

FYLZ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	<i>AD category for fire fighting</i>	CAT 5
2.	<i>Rescue Equipment</i>	1 x Airport Rescue Fire Fighting Vehicle MARCÉ RHINO 6x6 12 500 litre Water tank 1500 litre Foam tank 250kg DCP
3.	<i>Capability for removal of disabled aircraft</i>	Removal of disabled aircraft is the responsibility of the airline, registered owner, or aircraft operator. NAC has a Service Level Agreement (SLA) with AWH Africa Rigging and Plant Rentals CC for the removal of disabled aircraft. This contracted service can recover aircraft up to Category C aircraft only.
4.	<i>Remarks</i>	Coordinator for Removal of Disabled Aircraft: Mr. Given Sisamu, Airport Supervisor. Tel: +264 63 202035 Cell: +264 81 124 3072 (during or after hours) Email: sisamug@airports.com.na

FYLZ AD 2.7 SEASONAL AVAILABILITY - CLEARING

1.	<i>Types of clearing equipment</i>	1 CAT backhoe loader and 1 Tipper truck available for removal of wind-blown sand.
2.	<i>Clearance priorities</i>	1. RWY 03/21 and RWY 12/30 2. TWY 3. Apron and other airside operational areas
3.	<i>Remarks</i>	Wind-blown sand may accumulate on airside operational areas. Clearing equipment is available for sand removal when required.

FYLZ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron designation, surface and strength	Asphalt and Concrete Apron Asphalt PCR: 170 F/D/X/T Concrete PCR: 180 R/D/X/T
2.	Taxiway designation, width, surface and strength	23M width Asphalt surface, PCR: 140 F/C/X/T
3.	Altimeter checkpoint location and elevation	NIL
4.	VHF omnidirectional radio range (VOR) checkpoints	VOR CP_A 264120.90S 0151434.20E Frequency: 115.6 MHz
5.	INS checkpoints	NIL
6.	Remarks	NIL

FYLZ 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 the Marshaller guidance												
2.	RWY and TWY markings and LGT	<table> <tr> <th>RWY/TWY</th><th>Markings</th><th>Lights</th></tr> <tr> <td>RWY (03/21)</td><td>Designation, Centreline, Threshold.</td><td>Edge lights, End lights</td></tr> <tr> <td>RWY (12/30)</td><td>NIL</td><td>NIL</td></tr> <tr> <td>TWY</td><td>Centreline, Holding Position</td><td>Edge lights</td></tr> </table>	RWY/TWY	Markings	Lights	RWY (03/21)	Designation, Centreline, Threshold.	Edge lights, End lights	RWY (12/30)	NIL	NIL	TWY	Centreline, Holding Position	Edge lights
RWY/TWY	Markings	Lights												
RWY (03/21)	Designation, Centreline, Threshold.	Edge lights, End lights												
RWY (12/30)	NIL	NIL												
TWY	Centreline, Holding Position	Edge lights												
3.	Stop bars	NIL												
4.	Other runway protection measures	NIL												
5.	Remarks	NIL												

FYLZ AD 2.10 AERODROME OBSTACLES

<i>In Area 2</i>					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT (FT)	Markings/ Type, colour, lighting (LGT)	Remarks
a	b	c	d	e	f
W TURBINE_1	Wind Turbine	263820.90S 0151059.27E	1167/377.30	LGT	NIL
W TURBINE_2	Wind Turbine	263812.96S 0151114.58E	915/377.30	LGT	NIL
W TURBINE_3	Wind Turbine	263759.58S 0151140.29E	1250/377.30	LGT	NIL
MTC TWR_A	Tower	264137.77S 0151359.52E	610/80.75	LGT	NIL
RES	Reservoir	264220.38S 0151348.46E	553/N/A	NIL	NIL
HIGRND1	High Ground	264013.95S 0151458.51E	424/N/A	NIL	NIL
HIGRND2	High Ground	263938.45S 0151528.92E	603/N/A	NIL	NIL
HIGRND3	High Ground	264200.19S 0151433.11E	541/N/A	NIL	NIL
SP2	High Ground	264101.41S 0151432.52 E	491/N/A	NIL	NIL
SP3	High Ground	264101.08S 0151431.50E	514/N/A	NIL	NIL
PWL03 PL1	Pole	264139.33S 01514 30.54E	451/30.25	NIL	NIL
PWL03 PL2	Pole	264141.33S 01514 27.17E	442/30.10	NIL	NIL
IVT_XE1	Wind Turbine	264355.48S 0150957.87E	920/411.09	LGT	NIL
IVT_XE2	Wind Turbine	264354.60S 0151011.53E	929/411.09	LGT	NIL
IVT_XE3	Wind Turbine	264353.13S 0151024.76E	1002/411.09	LGT	NIL
IVT_XE4	Wind Turbine	264352.03S 0151036.73E	1008/411.09	LGT	NIL
IVT_GW1	Wind Turbine	264439.76S 0150957.04E	1047/598.75	LGT	NIL
IVT_GW2	Wind Turbine	264438.14S 0151015.13E	1086/598.75	LGT	NIL
IVT_GW3	Wind Turbine	264436.39S 0151032.97E	1141/598.75	LGT	NIL
IVT_GW4	Wind Turbine	264434.96S 0151051.00E	1184/598.75	LGT	NIL
IVT_GW5	Wind Turbine	2644 31.45S 0151108.85E	1179/598.75	LGT	NIL
IVT_GW6	Wind Turbine	264526.98S 0151049.48E	1158/598.75	LGT	NIL
IVT_GW7	Wind Turbine	264524.63S 01511 17.44E	1129/598.75	LGT	NIL

<i>In Area 3</i>					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT (FT)	Markings/ Type, colour, lighting (LGT)	Remarks
a	b	c	d	e	f
CVOR VOR-DME	Equipment	2640 57.29S 0151445.95E	453/30.11	LGT	NIL
C_TWR_A	Building	264119.87S 0151442.09E	478/41.15	LGT	NIL
FIRE STATION	Building	264124.60S 0151438.75E	457/26.76	NIL	NIL
WINDSOCK21	Equipment	2640 42.60S 0151450.73E	432/25.32	NIL	NIL
WINDSOCK_MID	Equipment	264119.06S 0151439.52E	457/24.62	NIL	NIL
WIND SENSOR	Equipment	264119.39S 0151440.61E	467/34.76	NIL	NIL
FLOOD LT2	Pole	264123.74S 0151437.56E	455/26.25	NIL	NIL
HANGER_1	Building	264120.42S 0151451.02E	471/26.53	NIL	NIL
APPRWY21LT1	Equipment	264031.87S 01514 48.66E	393/1.15	NIL	NIL
APPRWY21LT3	Equipment	264030.94S 0151448.97E	393/1.48	NIL	NIL
APPRWY21LT4	Equipment	264030.01S 0151449.29E	394/2.79	NIL	NIL
NW HANGER	Building	264122.65S 0151452.90E	488/41.50	NIL	NIL
RWY12 F2	Fence Pole	264113.91S 0151425.41E	423/4.27	NIL	NIL
MET STN_OLD	Equipment	264040.22S 0151450.62E	416/9.51	NIL	NIL

FYLZ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	Associated Met office	NIL
2.	Hours of service MET office outside hours	NIL
3.	Office responsible for terminal aerodrome forecast (TAF) preparation Periods of validity	Windhoek
4.	Trend forecast Interval of issuance	NIL
5.	Briefing/consultation provided	NIL
6.	Flight documentation Language(s) used	English
7.	Charts and other information available for briefing or consultation	NIL

8.	Supplementary equipment available for providing information	NIL
9.	ATS units provided with information	FYWH
10.	Additional information (limitation of service, etc.)	NIL

FYLZ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength of the pavement classification rating (PCR) and surface of RWY and SWY	THR Co-ordinates RWY end coordinates THR geoid undulation	THR Elevation and Highest Elevation of TDZ of Precision APP RWY
1	2	3	4	5	6
03	016.88°	1830 x 30	125/F/B/X/T RWY Asphalt SWY NIL	THR 264129.71S 0151429.11E RWY end 264032.81S 0151448.34E GUND 105FT	420 FT
21	196.88°	1830 x 30	125/F/B/X/T RWY Asphalt SWY NIL	THR 264032.81S 0151448.34E RWY end 264129.71S 0151429.11 GUND 105FT	392 FT
12	098.66°	1205 x 30	NIL Strength RWY Gravel NIL SWY	THR 264113.83S 0151431.34E RWY end 264119.73S 0151514.43E GUND 105FT	420 FT
30	278.66°	1205 x 30	NIL Strength RWY Gravel NIL SWY	THR 264119.73S 0151514.43E RWY end 264113.83S 0151431.34E GUND 105FT	458 FT

<i>Designations 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 runway end safety areas</i>	<i>Location and description of engineering material arresting system (EMAS)</i>
	7	8	9	10	11	12
03	RWY 0.56% SWY NIL	NIL	NIL	1950x150	NIL	NIL
21	RWY 0.56% SWY NIL	NIL	NIL	1950x150	NIL	NIL
12	RWY 0.98% SWY NIL	NIL	NIL	1325x150	NIL	NIL
30	RWY 0.98% SWY NIL	NIL	NIL	1325 x150	NIL	NIL

<i>Designations RWY NR</i>	<i>OFZ</i>	<i>Remarks</i>
	13	14
03	NIL	NIL
21	NIL	NIL
12	NIL	NIL
30	NIL	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
03	1830	1830	1830	1830	NIL
21	1830	1830	1830	1830	NIL
12	1205	1205	1205	1205	NIL
30	1205	1205	1205	1205	NIL

FYLZ AD 2.14 APPROACH AND RUNWAY LIGHTING

<i>RWY Designator</i>	<i>APCH LGT type LEN INTST</i>	<i>THR LGT color WBAR</i>	<i>VASIS (MEHT) PAPI</i>	<i>TDZ, LGT, LEN</i>	<i>RWY Centre line LGT Length, spacing colour INTST</i>	<i>RWY edge LGT LEN, spacing colour INTST</i>	<i>RWY End LGT color WBAR</i>	<i>SWY LGT LEN (M) colour</i>	<i>Remarks</i>
1	2	3	4	5	6	7	8	9	10
03	NIL	Green	PAPI, Left / 3°	NIL	NIL	60M White	Red	NIL	Non-precision approach
21	CAT I	Green	PAPI Left / 3°	NIL	NIL	60M White	Red	NIL	Non-precision approach
12	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
30	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FYLZ 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</i> <i>Anemometer location and LGT</i>	NIL
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 the intersections. Centreline: NIL Stop Bars: NIL
4.	<i>Secondary power supply/switch-over time</i>	Secondary power supply to all lighting at AD No Switch- over time. Operated manually when the power goes off
5.	<i>Remarks</i>	There are two generators, 2 x 400 KVA Cummins power generator sets

FYLZ 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>	NIL

FYLZ AD 2.17 ATS AIRSPACE

1.	<i>Designation and lateral limits</i>	Lüderitz 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>	Lüderitz Tower English
5.	<i>Transition altitude</i>	10 000 FT MSL
6.	<i>Hours of applicability (or activation)</i>	Same as AD Administration
7.	<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
Tower	Lüderitz Tower	118.6MHz	MON-FRI: 0600-1500 SAT: 0700-1300 SUN: 0800-1200	All ACFT to BCST Lüderitz TWR FREQ 118.6MHz when TWR unmanned

FYLZ 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
VOR/DME (17°W / 2016)	LZV	115.6 MHz CH 103X	H24	264057.20S 0151448.23E	492FT	NIL	NIL

FYLZ AD 2.20 LOCAL TRAFFIC REGULATIONS

1. AIRPORT REGULATIONS

1.1 Hazard, Incident and Accident Reporting

All safety hazards, incidents and accidents to be reported to FYLZ fire station control room at 063-203888 or the Airport Supervisor office at 063-202035 or emailed to sisamug@airports.com.na.

1.2 Circuit Altitude:

- a) Turbine powered aircraft 2000 FT AMSL
- b) Reciprocating Engine powered aircraft
1500 FT AMSL

1.3 Reflective jackets

All pilots and crew operating at Lüderitz 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.

1.4 New Aircraft operating at Lüderitz Airport

Aircraft operators intending to operate an aircraft for the first time at Lüderitz Airport must apply in writing through the Airport Supervisor and complete the new Aircraft Application form and may only operate the new aircraft upon approval by NAC. This assessment will also include a comparison of the aircraft CAN against the Airport airside PCN.

1.5 Airport charges

1.5.1 Airport Fees Administration

An applicant requiring to operate outside the airports published operational hours must apply in writing at least 24 hours in advance to the Airport Supervisor who after consultation with service providers will approve or reject the request. This excludes any ambulance, emergency flights and any diversions. Operators not complying with the above have to take any inconvenience into consideration, because of the distance to be travelled by the service provider between the place of residence and the airport. After-hours for domestic and international aircraft charges will apply.

1.5.2 Landing /Parking and Passenger Fees

All unscheduled and charter flights to affect payment directly to NAC upon arrival and before departure and not to any third parties, payment can be made at the Airport Supervisor's office in the terminal building.

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

When an aircraft becomes disabled on the runway, it is the duty of the owner or user of such aircraft to remove the aircraft as soon as possible. If the disabled aircraft is not removed from the runway 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.

Coordinator for Removal of Disabled Aircraft:
Mr. Given Sisamu, Airport Supervisor.
Tel: +264 63 202035
Cell: +264 81 124 3072 (during or after hours)
Email: sisamug@airports.com.na

FYLZ AD 2.21 NOISE ABATEMENT PROCEDURES

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NIL

FYLZ AD 2.22 FLIGHT PROCEDURES

1. Radio Communication Failure (RCF)

- a) Aircraft to join overhead the aerodrome at 2500FT 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:

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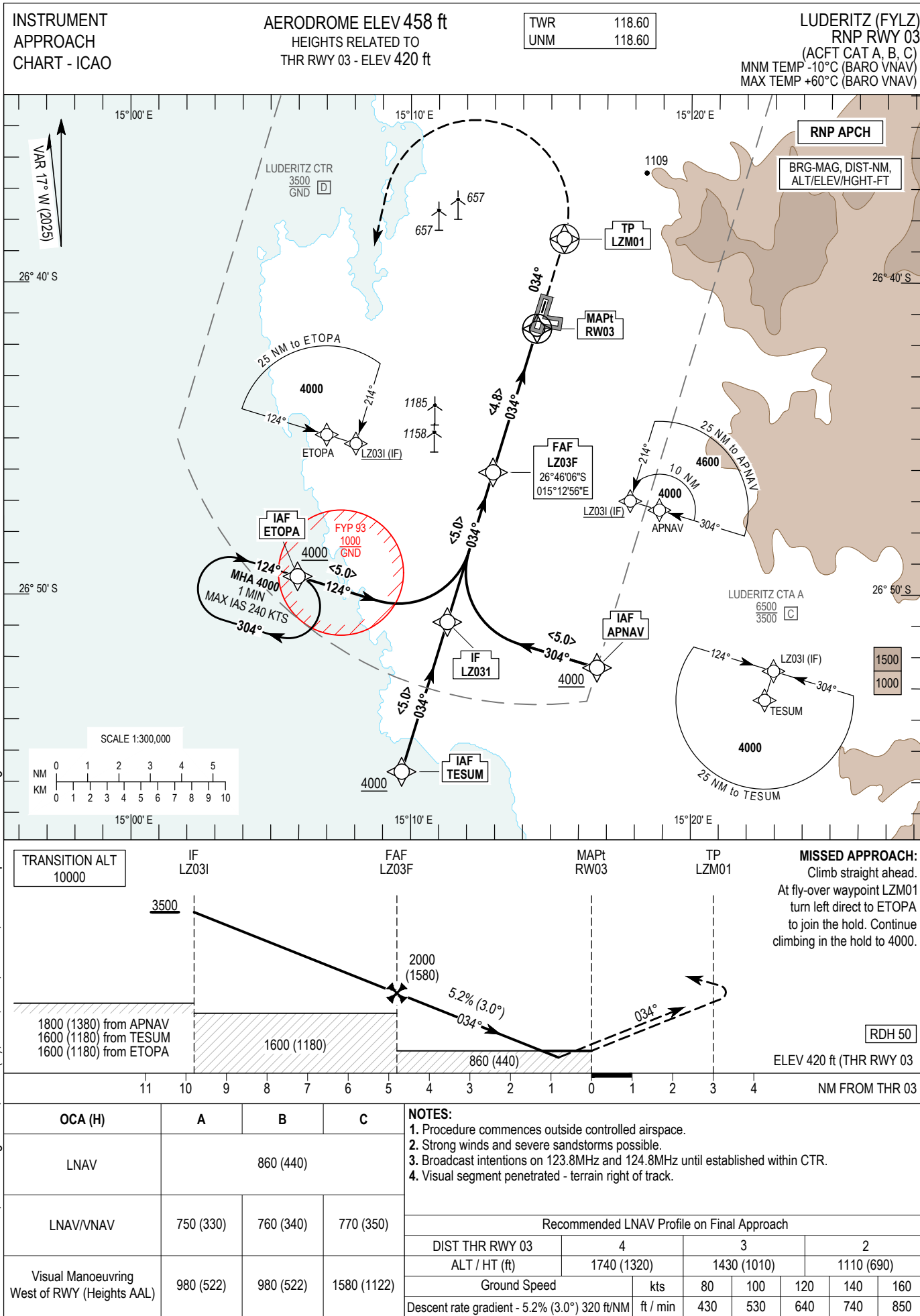
RWY 21/03: All ACFT can expect to fly circuits to the east.
RWY 21 Left - hand circuits
RWY 03 Right - hand circuits

FYLZ AD 2.23 ADDITIONAL INFORMATION

NIL

FYLZ AD 2.24 CHARTS RELATED TO LUDERITZ

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Instrument Approach Chart – ICAO RNP RWY 03	AD 2-15
Database coding FYLZ RNP RWY 03	AD 2-16
Instrument Approach Chart – ICAO RNP RWY 21	AD 2-17
Database coding FYLZ RNP RWY 21	AD 2-18
Visual Approach Chart – ICAO	AD 2-19
Additional Information	AD 2-20



RNP RWY03 via APNAV

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	APNAV	265221.2 / 0151639.1	IF	-	-	-	- / +A4000	-	-	-
RNP APCH	LZ03I	265053.8 / 0151118.1	TF	Fly-By	286.9 / 304	5.0	- / +A3500	-	-	-
RNP APCH	LZ03F	264606.0 / 0151255.6	TF	Fly-By	016.9 / 034	5.0	-	-	-	Turn R
RNP APCH	RW03	264129.7 / 0151429.1	TF	Fly-Over	016.9 / 034	4.8	-	-	3.00 / 50	-
RNP APCH	LZM01	263837.0 / 0151527.5	CF	Fly-Over	016.9 / 034	-	-	-	-	032° / D 2.4 LZV
RNP APCH	ETOPA	264926.3 / 0150557.3	DF	Fly-By	-	-	-	-	-	Turn L

RNP RWY03 via TESUM

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	TESUM	265541.7 / 0150940.6	IF	-	-	-	- / +A4000	-	-	-
RNP APCH	LZ03I	265053.8 / 0151118.1	TF	Fly-By	016.9 / 034	5.0	- / +A3500	-	-	-
RNP APCH	LZ03F	264606.0 / 0151255.6	TF	Fly-By	016.9 / 034	5.0	-	-	-	-
RNP APCH	RW03	264129.7 / 0151429.1	TF	Fly-Over	016.9 / 034	4.8	-	-	3.00 / 50	-
RNP APCH	LZM01	263837.0 / 0151527.5	CF	Fly-Over	016.9 / 034	-	-	-	-	032° / D 2.4 LZV
RNP APCH	ETOPA	264926.3 / 0150557.3	DF	Fly-By	-	-	-	-	-	Turn L

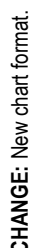
RNP RWY03 via ETOPA

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	ETOPA	264926.3 / 0150557.3	IF	-	-	-	- / +A4000	-	-	-
RNP APCH	LZ03I	265053.8 / 0151118.1	TF	Fly-By	106.9 / 124	5.0	- / +A3500	-	-	-
RNP APCH	LZ03F	264606.0 / 0151255.6	TF	Fly-By	016.9 / 034	5.0	-	-	-	Turn L
RNP APCH	RW03	264129.7 / 0151429.1	TF	Fly-Over	016.9 / 034	4.8	-	-	3.00 / 50	-
RNP APCH	LZM01	263837.0 / 0151527.5	CF	Fly-Over	016.9 / 034	-	-	-	-	032° / D 2.4 LZV
RNP APCH	ETOPA	264926.3 / 0150557.3	DF	Fly-By	-	-	-	-	-	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
ETOPA	264926.3 / 0150557.3	106.9	124	-	+A4000	-	1	R

LUDERITZ (FYLZ)
RNP RWY 21
(ACFT CAT A, B, C)
MNM TEMP -15°C (BARO VNAV)
MAX TEMP +48°C (BARO VNAV)



TP LMZ02

MAPt RW21

FAF LZ21F

IF LZ21I

TRANSITION ALT 10000

3500

3300 (2908) from HERSH
2900 (2508) from UNDUN
1800 (1408) from NIKAN

2000 (1608)

5.2% (3.0°)

214°

1800 (1408)

890 (498)

3 2 1 0 1 2 3 4 5 6 7 8 9 10 11

OCA (H)	A	B	C	NOTES:									
LNAV	890 (498)			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.									
LNAV/VNAV	780 (388)	790 (398)	800 (408)	Recommended Profile on Final Approach									
				DIST THR RWY 21		2		3			4		
				ALT / HT (ft)		1080 (688)		1400 (1008)			1720 (1328)		
				Ground Speed			kts	80	100	120	140	160	
Visual Manoeuvring (Heights AAL)	870 (554)	940 (624)	1160 (844)	Descent rate gradient - 5.2% (3.0°) 320 ft/NM		ft / min		430	530	640	740	850	

AIRAC A04/2026

RNP RWY21 via NIKAN

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	NIKAN	262935.6 / 0151240.8	IF	-	-	-	- / +A4000	-	-	-
RNP APCH	LZ21I	263103.2 / 0151800.8	TF	Fly-By	106.9 / 124	5.0	- / +A3500	-	-	-
RNP APCH	LZ21F	263551.1 / 0151623.5	TF	Fly-By	196.9 / 214	5.0	-	-	-	Turn R
RNP APCH	RW21	264032.8 / 0151448.3	TF	Fly-Over	196.9 / 214	4.9	-	-	3.00 / 50	-
RNP APCH	LZM02	264325.5 / 0151349.9	CF	Fly-Over	196.9 / 214	-	-	-	-	216° / D2.6 LZV
RNP APCH	NIKAN	262935.6 / 0151240.8	DF	Fly-By	-	-	-	-	-	Turn R

RNP RWY21 via HERSH

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	HERSH	262615.3 / 0151937.9	IF	-	-	-	- / +A4500	-	-	-
RNP APCH	LZ21I	263103.2 / 0151800.8	TF	Fly-By	196.9 / 214	5.0	- / +A3500	-	-	-
RNP APCH	LZ21F	263551.1 / 0151623.5	TF	Fly-By	196.9 / 214	5.0	-	-	-	-
RNP APCH	RW21	264032.8 / 0151448.3	TF	Fly-Over	196.9 / 214	4.9	-	-	3.00 / 50	-
RNP APCH	LZM02	264325.5 / 0151349.9	CF	Fly-Over	196.9 / 214	-	-	-	-	216° / D2.6 LZV
RNP APCH	NIKAN	262935.6 / 0151240.8	DF	Fly-By	-	-	-	-	-	Turn R

RNP RWY21 via UNDUN

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	UNDUN	263230.6 / 0152320.8	IF	-	-	-	- / +A4500	-	-	-
RNP APCH	LZ21I	263103.2 / 0151800.8	TF	Fly-By	286.9 / 304	5.0	- / +A3500	-	-	-
RNP APCH	LZ21F	263551.1 / 0151623.5	TF	Fly-By	196.9 / 214	5.0	-	-	-	Turn L
RNP APCH	RW21	264032.8 / 0151448.3	TF	Fly-Over	196.9 / 214	4.9	-	-	3.00 / 50	-
RNP APCH	LZM02	264325.5 / 0151349.9	CF	Fly-Over	196.9 / 214	-	-	-	-	216° / D2.6 LZV
RNP APCH	NIKAN	262935.6 / 0151240.8	DF	Fly-By	-	-	-	-	-	Turn R

Hold Identification

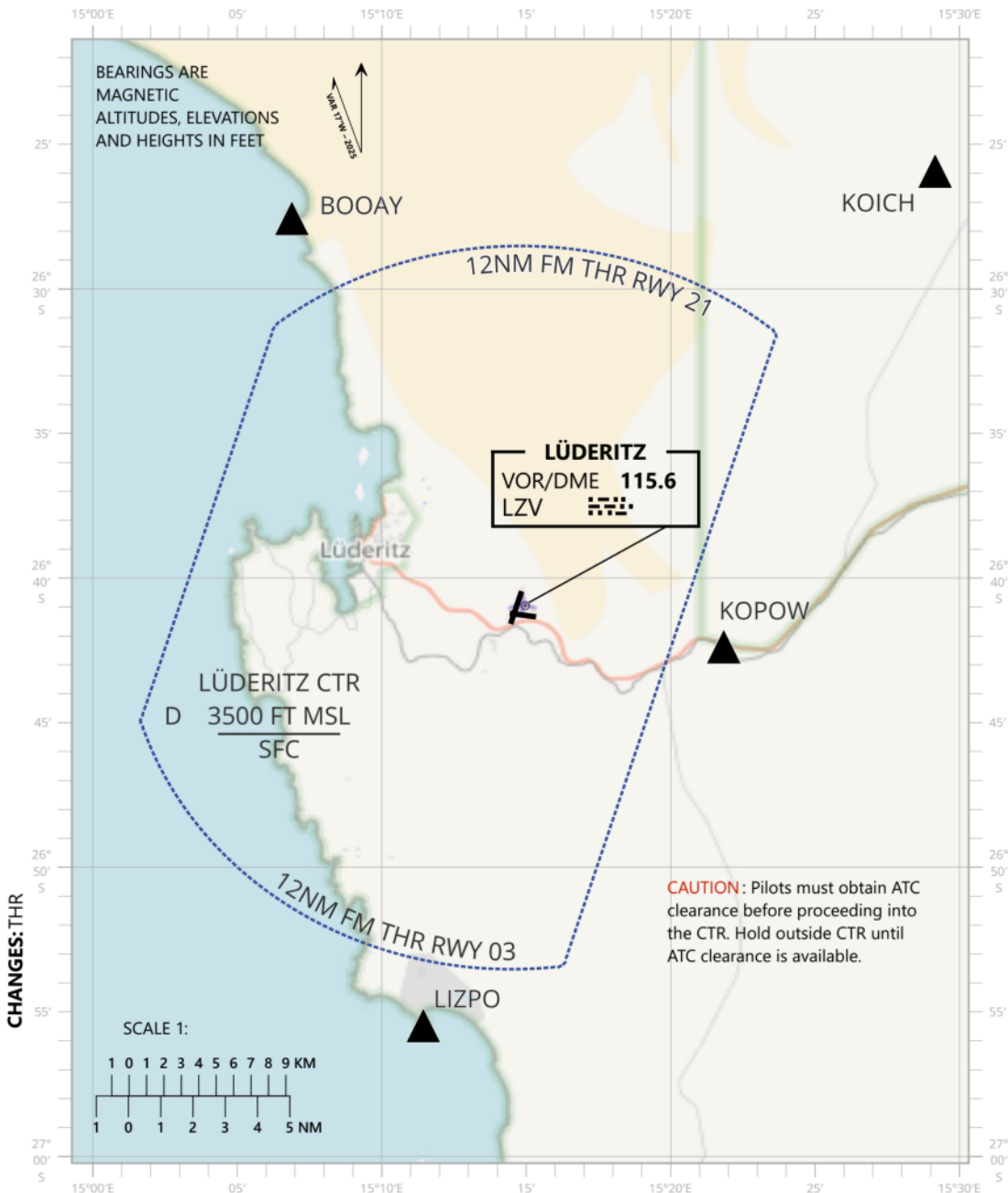
Holding Fix	Latitude (S) / Longitude (E)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Level/ Altitude (FL/ft)	Maximum Holding Level/ Altitude (FL/ft)	Outbound Time (min)	Direction of Turn
NIKAN	262935.6 / 0151240.8	106.9	124	-	+A4000	-	1	L

**VISUAL
APPROACH
CHART - ICAO**

AD ELEV - **457 FT**

TWR 118.6

LÜDERITZ (FYLZ)



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