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REPUBLIC OF NAMIBIA

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AIP SUPPLEMENT

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WINDHOEK

AIRAC AIP SUP
S17/2024
03 October 2024

REPLACEMENT OF ICARD NON-COMPLIANT WAYPOINTS IN FYWH FIR

Effective date: 28 November 2024

Validity Period: PERM

1. This AIP SUP introduces renamed waypoints to replace some of the old 5LNCs in compliance to the requirements of appendices 2 and 3 of NAMCAR Part 172.
2. It is a requirement of NAMCAR Part 172 and International Codes and Route Designators (ICARD) that, a significant point is required at a position not marked by the site of a radio navigation aid and is used for ATC purposes. This shall be designated by a unique five-letter pronounceable “name-code”. The name-code designator then serves as the name as well as the coded designator of that significant point. The unique five-letter pronounceable name-code designator assigned to a significant point shall not be assigned to any other significant point”.
3. To support States, ICAO rolled out a new ICARD platform for safe implementation. The database assist in identifying duplicated codes, proximity sound alike codes and differences between 5LNC data registered in ICARD and those published in national AIPs.
4. In light of the above, this Supplement (SUP) aims to notify airspace users of the replacement of affected Five-Letter Name- Codes (5LNC) within the WINDHOEK FIR. The SUP is inclusive of affected waypoints, Routes and Enroute chart (Appendix 1).
5. The Supplement will be cancelled when content is incorporated in the AIP, expected 20 March 2025.

6. The following table contains new 5LNCs replacing existing non-compliant Name-Codes in Windhoek FIR.

1. *Name code designator*	***2.*** *Coordinates*	***3.*** *Description*	***4.*** *Remarks*
IBNEV	184706.00S 0114005.00E	Entry / Exit AORRA/ UL435/ UL685	Replacing IBLOK
IBTAG	180240.68S 0201233.72E	Enroute waypoint on UQ83/UP306	Replacing GEREX
OKROP	173803.01S 0241035.99E	Enroute waypoint on UP306	Replacing XAKMU
UVORI	231445.05S 0173549.05E	TMA waypoint/UN185	Replacing UTULO
UMTOL	272955.15S 0203940.57E	FIR waypoint/UL686	Replacing EGNOR
XABEB	224200.00S 0182035.00E	TMA waypoint/ G653	Replacing MOKAK
XABLO	212524.08S 0210000.00E	FIR waypoint/UM438	Replacing GESAR
XAMGA	231005.28S 0200014.62E	FIR waypoint/UN182	Replacing UTRIS
XANBI	250030.37S 0190354.43E	Enroute waypoint UP684/ UL686	Replacing EPVEP
XORIN	172800.20S 0242200.00E	FIR Boundary point UM437	Replacing TIGEL

7. Following are the routes affected by changes.

Route designator (RNP/RNAV[1)] Name of significant points Coordinates	*Track DEG MAG*	*Geodesic DIST NM*	*Upper limit Lower limit* / *Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Frequency*
1	2	3	4	5		6
UL435 (RNAV 5)2,3						For continuation see AIP Botswana
▲ BOPAN 222412.00S 0200000.00E	305° 125°	105.6				
▲ IMPIG 214212.55S 0181606.03E	305° 125°	7				Bidirectional
▲ GETEM 213920.88S 0180909.18E	305° 125°	26	FL460 FL245	↑	↓	ACC Windhoek 124.7 MHz
▲ IMGET 212834.74S 0174310.08E	305° 125°	47	Class A			
▲ TIMAB 210925.41S 0165729.01E	305° 126°	212.2				For continuation see AIP South Africa
▲ IXEPA 193921.10S 0133248.32E	306° 126°	119.2				
▲ IBNEV 184706.00S 0114005.00E						

1. RNP = Required Navigation Performance; RNAV = area navigation specification

2. RNAV 5 represents aircraft and operating requirements, including a 5NM lateral performance as detailed in the Performance Based Navigation (PBN) Manual (Doc 9613)

3. GNSS Required

4. Except in an emergency or due to weather, when flight plan on RNAV 5 route within FYWF FIR, request for direct track not permitted. When deviating for weather, aircraft can expect clearance direct to next en-route waypoint once clear of weather.

5. The flight crew shall advise ATC unit concerned without delay in the event that the aircraft is experiencing degradation of RNAV capabilities

Route designator (RNP/RNAV[1)] Name of significant points Coordinates	*Track DEG MAG*	*Geodesic DIST NM*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels*		*Remarks Controlling unit Frequency*
				Odd	*Even*	
1	2	3	4	5		6
UL685 **(RNAV 5)2,3**						
▲VEDRY 222838.52S 0172814.07E	316° 124°	39.7				Bidirectional
▲OKSUN 220626.00S 0165300.00E	316° 136°	10.3				
▲UTROL 220039.62S 0164355.36E	315° 135°	206	FL460 FL245 Class A	↑	↓	
▲DUGNU 200628.83S 0134134.35E	315° 135°	140.1				ACC Windhoek 124.7 MHZ
▲IBNEV 184706.00S 0114005.00E						

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Route designator (RNP/RNAV1) Name of significant points Coordinates	*Track DEG MAG*	*Geodesic DIST NM*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels*		*Remarks Controlling unit Frequency*
				Odd	*Even*	
1	*2*	*3*	*4*	*5*		*6*
UQ83 **(RNAV5)2,3** ▲ EPNON 175242.00S 0201806.00E ▲ IBTAG 180240.68S 0201233.72E ▲ EXIRI 184232.34S 0195019.92E ▲ EKBOL 202220.34S 0185345.72E ▲ GETEM 213920.88S 0180909.18E ▲ IBKIN 215011.87S 0180247.85E	<u>215°</u> 035° <u>215°</u> 036° <u>216°</u> 038° <u>218°</u> 040° <u>220°</u> 040°	11.3 45.00 112.9 87.3 12.3	<u>FL460</u> FL245 Class A	↑	↓	For continuation see AIP Angola Bidirectional ACC Windhoek 124.7MHz

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Route designator (RNP/RNAV[1)] Name of significant points Coordinates	*Track DEG MAG*	*Geodesic DIST NM*	*Upper limit Lower limit* / *Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Frequency*
1	2	3	4	5		6
UP306 (RNAV 5)2,3						
▲ OKROP 173803.01S 0241035.99E	266° 086°	25.2				For continuation see AIP Botswana
▲ NERIB 174242.00S 0234441.99E	266° 086°	73.8				Bidirectional
▲ AVIPU 175606.00S 0222847.99E	267° 087°	44.3	FL460 FL245 Class A	↑	↓	ACC Windhoek 124.7 MHZ
▲ EPTAR 180354.00S 0214311.99E	268° 088°	9.8 32.1				
▲ EXERA 180530.00S 0213305.99E	267° 088°	46				
▲ NETEN 181106.00S 0210000.00E	288° 108°	28				
▲ IBTAG 180240.68S 0201233.72E	288° 108°					
▲ DUNRU 175722.00S 0194314.00E						

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Route designator (RNP/RNAV[1)] Name of significant points Coordinates	*Track DEG MAG*	*Geodesic DIST NM*	*Upper limit Lower limit* / *Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Frequency*
1	*2*	*3*	*4*	*5*		*6*
UN185 **(RNAV 5)2,3** ▲ VEDRY 222838.52S 0172814.07E	184°	47.0	FL460 FL245 Class A		↓	Unidirectional South bound ACC Windhoek 124.7 MHZ
▲ UVORI 231445.05S 0173549.05E	184°	15.0				
▲ EGRED 232930.82S 0173814.81E	185°	17.0				
▲ UTSAL 234616.34S 0174100.30E	185°	44.0				
▲ DUTPU 242936.04S 0174805.10E	186°	32.2				For continuation see AIP of South Africa
▲ UDPOB 250117.52S 0175311.47E	187° °	151.1				
▲ KEBAT 273000.00S 0181800.00E						

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Route designator (RNP/RNAV[1)] Name of significant points Coordinates	*Track DEG MAG*	*Geodesic DIST NM*	*Upper limit Lower limit* / *Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Frequency*
1	*2*	*3*	*4*	*5*		*6*
UL686 **(RNAV 5)2,3**						Bidirectional
▲ VEDRY 222838.52S 0172814.07E	162° 343°	76.8				
▲ APGIB 233435.40S 0181008.57E	163° 343°	26.1				ACC Windhoek 124.7 MHZ
▲ EPRIS 235700.48S 0182432.66E	164° 345°	44.5	FL460 FL245 Class A	↑	↓	
▲ OKLAV 243535.91S 0184824.59E	165° 346°	26.8				
▲ XANBI 250030.37S 0190354.43E	165° 348°	144.8				For continuation see AIP South Africa
▲ IBTOP 270522.14S 0202349.99E	168° 348	28.4				
▲ UMTOL 272955.15S 0203940.57E						

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Route designator *Name of significant points* *Co-ordinates*	*Track* *MAG*	*Upper limit* *Lower limit*		*Direction of cruising levels*		*Remarks* *Controlling unit* *Frequency*
	(GEO) *VOR* *RDL* *DIST* *(COP)*	*Minimum flight altitude* *Airspace classification*	*Lateral limits* *NM*	*Odd*	*Even*	
1	*2*	*3*	*4*	*5*		*6*
G653 ▲ VEDRY 222838.52S0172814.07E ▲ XABEB 224200.00S 0182035.00E ▲ ANTOR 230444.55S 0200000.00E	<u>119°</u> 298° 50.0NM <u>116°</u> 296° 94.0NM	<u>FL 245</u> FL 145 Class A		↑	↓	Bidirectional ACC Windhoek 124.7MHz Annually 01 NOV to 28 Feb of following year route segment XABEB– ANTOR downgraded to Class G, FL145 to FL195 – HJ- due annual gliding season. ENR 5.5-1 refers. For continuation See AIP Botswana

Route designator (RNP/RNAV[1)] Name of significant points Coordinates	*Track DEG MAG*	*Geodesic DIST NM*	*Upper limit Lower limit* / *Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Frequency*
1	*2*	*3*	*4*	*5*		*6*
UM438 (RNAV 5)2,3 ▲ VEDRY 222838.52S 0172814.07E ▲ DUNLO 220112.00S 0190230.00E ▲ IMKED 213112.00S 0204106.00E ▲ XABLO 212524.08S 0210000.00E	085° 264° 084° 263° 083° 263°	91.9 96.9 18.6	FL460 FL245 Class A	↑	↓	Bidirectional ACC Windhoek 124.7 MHZ For continuation see AIP Botswana

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Route designator (RNP/RNAV[1)] Name of significant points Coordinates	*Track DEG MAG*	*Geodesic DIST NM*	*Upper limit Lower limit* / *Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Frequency*
1	*2*	*3*	*4*	*5*		*6*
UN182 (RNAV 5)2,3						Unidirectional West bound
▲ XAMGA 231005.27S 0200014.62E	299°	97.1			↓	
▲ AXODO 224257.21S 0181936.53E	299°	49.8	FL460 FL245			
▲ VEDRY 222838.52S 0172814.07E	292° 112°	49.6	Class A	↑	↓	Segment VEDRY to ETUDU is bidirectional
▲ NETOG 222007.65S 0163539.51E	292° 113°	130.3				ACC Windhoek 124.7 MHz
▲ APGEK 215704.98S 0141755.10E	293° 114°	89.9				For continuation see AIP South Africa
▲ ETUDU 214000.00S 0124321.18E						

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Route designator (RNP/RNAV[1)] Name of significant points Coordinates	*Track DEG MAG*	*Geodesic DIST NM*	*Upper limit Lower limit* / *Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Frequency*
1	2	3	4	5		6
UP684 **(RNAV 5)2,3**						
▲IMLAN 245907.98S 0201941.19E	284° 104°	69.1				For continuation see AIP Botswana
▲XANBI 250030.37S 0190354.43E	284° 105°	64.4				Bidirectional
▲UDPOB 250117.52S 0175311.47E	285° 105°	25.2	FL460 FL245 Class A	↑	↓	ACC Windhoek 124.7 MHZ
▲EVOMO 250128.20S 0172534.16E	285° 106°	115.1				
▲IMRUG 250107.99S 0151910.81E	286° 107°	72.9				For continuation see AIP South Africa
▲DULGO 250000.00S 0135908.00E						

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Route designator (RNP/RNAV[1)] Name of significant points Coordinates	*Track DEG MAG*	*Geodesic DIST NM*	*Upper limit Lower limit* / *Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Frequency*
1	2	3	4	5		6
UM437 **(RNAV 5)2,3**						
▲ VEDRY 222838.52S 0172814.07E	052° 231°	50.3				Bidirectional
▲ IBKIN 215011.87S 0180247.85E	068° 248°	14.7				ACC Windhoek 124.7 MHZ
▲ IMPIG 214212.55S 0181606.03E	068° 247°	92.4	FL460 FL245 Class A	↑	↓	For continuation see AIP Botswana
▲ GEPOP 205138.69S 0193904.94E	067° 245°	91.2				
▲ AVOGU 200107.67S 0210000.88E	062° 239°	175.8				Segment AVOGU – IMDIP in Gaborone FIR
▲ GENIX 181224.00S 0232542.00E	059° 238°	29.5				
▲ IMDIP 175400.00S 0234942.00E	057° 237°	40.3				For continuation see AIP Zambia
▲ XORIN 172800.20S 0242200.00E						

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ENROUTE CHART - ICAO

NAMIBIA

ATLANTIC OCEAN

ANGOLA

ZAMBIA

BEARINGS AND TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET
DISTANCES ARE IN NAUTICAL MILES

MAGNETIC VARIATION DATE: 01 JANUARY 2020

Each 1 quadrilateral contains contains an area minimum altitude (AMA) which represents the lowest altitude which may be used under instrument meteorological conditions (IMC). The AMA provides a minimum clearance of 300 meters above all obstacles in the quadrilateral. It is represented in thousands and hundreds of meters above mean sea level.

Example 8210 feet = 8_{21}

Projection: Lambert Conical Conformal Projection

Prepared by Tanzania Civil Aviation Authority (TCAA) by using Data/Information contained on Namibia Aeronautical Information Publication

Scale: 1:2,300,000

NM 40 20 0 40 80 120 160

KM 100 50 0 100 200 300

LEGEND

- Aerodromes
- VOR/DME
- Waypoint
- Flight Information Region
- National Boundary
- Area Navigation Route (UNL UPPER / 102 DISTANCE / FL145 LOWER)
- Control Zone
- Terminal Control Area
- Danger, Prohibited & Restricted Area