

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
UL435 (RNAV 5)^{2,3} ▲ BOPAN 222412.00S 0200000.00E ▲ IMPIG 214212.55S 0181606.03E ▲ GETEM 213920.88S 0180909.18E ▲ IMGET 212834.74S 0174310.08E ▲ TIMAB 210925.41S 0165729.01E ▲ IXEPA 193921.10S 0133248.32E ▲ IBNEV 184706.00S 0114005.00E						For continuation see AIP Botswana Bidirectional ACC Windhoek 124.7 MHz For continuation see AIP South Africa
	<u>305°</u> 125°	105.6	<u>FL460</u> <u>FL245</u> Class A	↑ ↓		
	<u>305°</u> 125°	7				
	<u>305°</u> 125°	26				
	<u>305°</u> 125°	47				
	<u>305°</u> 126°	212.2				
	<u>306°</u> 126°	119.2				

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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	Direction of cruising levels		Remarks Controlling unit Frequency
			Airspace classification	Odd	Even	
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UL685 (RNAV 5)^{2,3} ▲ VEDRY 222838.52S 0172814.07E ▲ OKSUN 220626.00S 0165300.00E ▲ UTROL 220039.62S 0164355.36E ▲ DUGNU 200628.83S 0134134.35E ▲ IBNEV 184706.00S 0114005.00E						Bidirectional ACC Windhoek 124.7 MHZ
	316° 124°	39.7	FL460 FL245			
	316° 136°	10.3	Class A	↑	↓	
	315° 135°	206				
	315° 135°	140.1				
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UL686 (RNAV 5)^{2,3} ▲ VEDRY 222838.52S 0172814.07E ▲ APGIB 233435.40S 0181008.57E ▲ EPRIS 235700.48S 0182432.66E ▲ OKLAV 243535.91S 0184824.59E ▲ XANBI 250030.37S 0190354.43E ▲ IBTOP 270522.14S 0202349.99E ▲ UMTOL 272955.15S 0203940.57E						Bidirectional ACC Windhoek 124.7 MHZ For continuation see AIP South Africa
	<u>162</u> ° 343°	76.8	<u>FL460</u> <u>FL245</u>	Class A ↓ ↑		
	<u>163</u> ° 343°	26.1				
	<u>164</u> ° 345°	44.5				
	<u>165</u> ° 346°	28.8				
	<u>165</u> ° 348°	144.8				
	<u>168</u> ° 348°	28.4				
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UM427 (RNAV 5)^{2,3} ▲ DUNRU 175722.00S 0194314.00E ▲ EVESO 181700.72S 0192801.37E ▲ EGPAD 200606.00S 0182854.00E ▲ IMGET 212834.74S 0174310.08E ▲ APNIN 220112.00S 0172448.00E ▲ ERDES 223627.00S 0170445.00E						Bidirectional ACC Windhoek 124.7 MHZ
	<u>224°</u> 044°	24.5	FL460 FL245 Class A	↑ ↓		
	<u>215°</u> 037°	123.2				
	<u>217°</u> 039°	93.5				
	<u>219°</u> 039°	36.9				
	<u>219°</u> 040°	40.0				
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UM437 (RNAV 5)^{2,3} ▲ VEDRY 222838.52S 0172814.07E ▲ IBKIN 215011.87S 0180247.85E ▲ IMPIG 214212.55S 0181606.03E ▲ GEPOP 205138.69S 0193904.94E ▲ AVOGU 200107.67S 0210000.88E ▲ GENIX 181224.00S 0232542.00E ▲ IMDIP 175400.00S 0234942.00E ▲ XORIN 172800.20S 0242200.00E						Bidirectional ACC Windhoek 124.7 MHZ For continuation see AIP Botswana Segment AVOGU – IMDIP in Gaborone FIR For continuation see AIP Zambia
	<u>052°</u> 231°	50.3	<u>FL460</u> <u>FL245</u>	↓	↑	
	<u>068°</u> 248°	14.7	Class A			
	<u>068°</u> 247°	92.4				
	<u>067°</u> 245°	91.2				
	<u>062°</u> 239°	175.8				
	<u>059°</u> 238°	29.5				
	<u>057°</u> 237°	40.3				

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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	<u>085°</u> 264° <u>084°</u> 263° <u>083°</u> 263°	91.9	<u>FL460</u> <u>FL245</u>	↓	↑	Bidirectional ACC Windhoek 124.7 MHZ For continuation see AIP Botswana
		96.9	Class A			
		18.6				
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			Airspace classification	Odd	Even		
1	2	3	4	5		6	
UM439 (RNAV 5)^{2,3} ▲ VEDRY 222838.52S 0172814.07E ▲ GEPAS 214930.00S 0183342.00E ▲ OKRED 210042.00S 0195312.00E ▲ TIMED 201848.00S 0210000.00E	<u>070°</u> 248°	72.6	<u>FL460</u> <u>FL245</u>	↓	↑	Bidirectional ACC Windhoek 124.7 MHZ For continuation see AIP Botswana	
		89.1	Class A				
	<u>068°</u> 247°	75.6					
	<u>067°</u> 246°						
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UN181 (RNAV 5)^{2,3} ▲ XALVI 225855.59S 0143840.48E ▲ APDEM 233908.62S 0171234.74E ▲ UTSAL 234616.34S 0174100.30E ▲ EPRIS 235700.48S 0182432.66E ▲ GABSI 241947.05S 0200005.54E	120°	147.7	FL460 FL245 Class A	↓		Unidirectional East bound ACC Windhoek 124.7 MHZ For continuation see AIP Botswana
		27.1				
		41.5				
		90.6				
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UN182 (RNAV 5)^{2,3} ▲ XAMGA 231005.28S 0200014.62E ▲ AXODO 224257.21S 0181936.53E ▲ VEDRY 222838.52S 0172814.07E ▲ NETOG 222007.65S 0163539.51E ▲ APGEK 215704.98S 0141755.10E ▲ ETUDU 214000.00S 0124321.18E						Unidirectional West bound	
	299°	97.1	FL460 FL245 Class A		↓	Segment VEDRY to ETUDU is bidirectional	
	299°	49.8					
	<u>292°</u> 112°	49.6					ACC Windhoek 124.7 MHz
	<u>292°</u> 113°	130.3			↑	↓	
	<u>293°</u> 114°	89.9					
						For continuation see AIP South Africa	

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UN185 (RNAV 5)^{2,3} ▲ VEDRY 222838.52S 0172814.07E △UVORI 231445.05S 0173549.05E △EGRED 232930.82S 0173814.81E △UTSAL 234616.34S 0174100.30E △DUTPU 242936.04S 0174805.10E △UDPOB 250117.52S 0175311.47E ▲ KEBAT 273000.00S 0181800.00E	184°	47.0	FL460 FL245 Class A	↓	Unidirectional South bound Windhoek ACC 124.7 MHz For continuation see AIP of South Africa	
	184°	15.0				
	185°	17.0				
	185°	44.0				
	186°	32.2				
	187°	151.1				

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1	2	3	4	5		6
UN186 (RNAV 5)^{2,3} ▲ NEVAR 273048.34S 0174957.79E ▲ ETBIR 262256.93S 0173845.31E ▲ EVOMO 250128.20S 0172534.16E ▲ EPSAG 242639.91S 0172001.25E ▲ APDEM 233908.62S 0171234.74E ▲ XOTEK 232459.07S 0171017.96E ▲ ATUPI 231013.74S 0170755.40E ▲ VEDRY 222838.52S 0172814.07E	010°	68.9	FL460 FL245 Class A	↓		For continuation see AIP South Africa Unidirectional North bound ACC Windhoek 124.7 MHZ
	008°	82.8				
	007°	35.4				
	006°	48.3				
	005°	14.4				
	005°	14.9				
	037°	45.8				

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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. All flights Transiting FYWF FIR above FL245 are restricted to published routes. Flights planned via UN186/UT943 north bound are required to change from odd to even FL and are to indicate even FL required from position ATUPI to accommodate traffic flow north of Windhoek FIR. South bound traffic to anticipate FL change from odd to even FL at VEDRY (WHV).

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UP301 (RNAV 5)^{2,3} ▲ VEDRY 222838.52S 0172814.07E △ EGMAS 225947.23S 0181007.55E ▲ USUNO 232906.00S 0200000.00E	 142° 119°	 49.6 105.7	 <u>FL460</u> FL245 Class A	 ↓ 	 	Unidirectional East bound Windhoek ACC 124.7 MHz For continuation see AIP Botswana
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UP306 (RNAV 5)^{2,3} ▲ OKROP 173803.01S 0241035.99E ▲ NERIB 174242.00S 0234441.99E ▲ AVIPU 175606.00S 0222847.99E ▲ EPTAR 180354.00S 0214311.99E ▲ EXERA 180530.00S 0213305.99E ▲ NETEN 181106.00S 0210000.00E ▲ IBTAG 180240.68S 0201233.72E ▲ DUNRU 175722.00S 0194314.00E	<u>266°</u> 086°	25.2	<u>FL460</u> <u>FL245</u> Class A	↑ ↓	For continuation see AIP Botswana Bidirectional ACC Windhoek 124.7 MHZ	
	<u>266°</u> 086°	73.8				
	<u>267°</u> 087°	44.3				
	<u>268°</u> 088°	9.8				
	<u>267°</u> 088°	32.1				
	<u>288°</u> 108°	46				
	<u>288°</u> 108°	28				
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UP684 (RNAV 5)^{2,3} ▲ IMLAN 245907.98S 0201941.19E ▲ XANBI 250030.37S 0190354.43E ▲ UDPOB 250117.52S 0175311.47E ▲ EVOMO 250128.20S 0172534.16E ▲ IMRUG 250107.99S 0151910.81E ▲ DULGO 250000.00S 0135908.00E	<u>284°</u> 104°	69.1	FL460 FL245 Class A	↑	↓	For continuation see AIP Botswana Bidirectional ACC Windhoek 124.7 MHZ For continuation see AIP South Africa
	<u>284°</u> 105°	64.4				
	<u>285°</u> 105°	25.2				
	<u>285°</u> 106°	115.1				
	<u>286°</u> 107°	72.9				

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UQ83 (RNAV 5)^{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	FL460 FL245 Class A	↑	↓	For continuation see AIP Angola
		45.00				Bidirectional
		112.9				ACC Windhoek 124.7 MHz
		87.3				
		12.3				
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