

ENR 3.2 UPPER ATS ROUTES

Route designator Name of significant points Coordinates	Track MAG Rev Track MAG Length (NM)	Upper limit Lower limit Airspace class	Lateral limits (NM)	Direction of cruising levels		RNP Type	Remarks
				Odd	Even		
1	2	3	4	5		6	7
UR779							
▲MBEYA NDB 'MB' 08°55'34"S 033°27'27"E							
	<div>219°</div> <div>039°</div> <div>39 NM</div>	<div>UNL</div> <div>FL245</div> <div>Class A</div>		↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Kasama/ Mfuwe available as a relays stations. Lusaka Control Frequency. 120.500Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲GESAT 09°26'30"S 033°03'47"E							
	<div>219°</div> <div>040°</div> <div>106 NM</div>	<div>UNL</div> <div>FL245</div> <div>Class A</div>		↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Lusaka Control Frequency. 120.500Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲ITKAN 10°50'48"S 031°58'36"E							
	<div>220°</div> <div>040°</div> <div>19 NM</div>	<div>UNL</div> <div>FL245</div> <div>Class A</div>		↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Mfuwe available HJ as a relays stations. Lusaka Control Frequency. 120.500Mhz 120.700Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲APGEL 11°05'42"S							

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				Odd	Even		
1	2	3	4	5	6	7	
031°47'00"E							
	220° 042° 139 NM	UNL FL245 Class A		↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Mfuwe available HJ as a relays stations. Lusaka Control Frequency. 120.500Mhz 120.700Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲GEPET 12°56'30"S 030°20'00"E							
	222° 042° 33 NM	UNL FL245 Class A		↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Mfuwe available HJ as a relays stations. Lusaka Control Frequency. 120.500Mhz 120.700Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲AVEKA 13°22'36"S 029°59'18"E							
	222° 044° 148 NM	UNL FL245 Class A		↑	↓		Two-way radio contact to be maintained with AREA CTRL FREQ and Lusaka APPROACH. 121.300Mhz 8888.0Khz 8873.0Khz 6952.0Khz
▲KENNETH KAUNDA VOR/DME 'VLS' 15°19'41"S 028°25'15"E							
	231° 052°	UNL FL245		↑	↓		Two-way radio contact to be maintained

Route designator Name of significant points Coordinates	Track MAG Rev Track MAG Length (NM)	Upper limit Lower limit Airspace class	Lateral limits (NM)	Direction of cruising levels		RNP Type	Remarks
				Odd	Even		
1	2	3	4	5		6	7
	161 NM	Class A					with AREA CTRL FREQ and Lusaka APPROACH. 121.300Mhz 8888.0Khz 8873.0Khz 6952.0Khz
▲ AVOMU 17°13'58"S 026°26'53"E							
	233° 054° 50 NM	UNL FL245 Class A		↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Livingstone Approach 124.300Mhz available HJ as a relay station. Lusaka Control Frequency. 120.500Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲ HARRY MWAANGA NKUMBULA VOR/DME 'VLI' 17°48'45"S 025°49'12"E							

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