

ENR 3.1 LOWER ATS ROUTES

Route designator Name of significant points Coordinates	Track MAG Rev Track MAG Length (NM)	Upper limit Lower limit MEA Airspace class	Lateral limits (NM) MOCA	Direction of cruising levels		RNP Type	Remarks
				Odd	Even		
1	2	3	4	5		6	7
R779							
▲MBEYA NDB 'MB' 08°55'22"S 033°27'29"E							
	219° 039° 39 NM	FL245 FL145 Class A FL145 FL075 Class G	0				Two-way radio contact to be maintained with ATC in these airspaces. Mfuwe available as a re-lays stations. Lusaka Control Frequency. 120.500Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲GESAT 09°26'30"S 033°03'47"E							
	219° 040° 106 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Mfuwe available as a re-lays stations. Lusaka Control Frequency. 120.500Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲ITKAN 10°50'48"S 031°58'36"E							
	220° 040° 19 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Mfuwe available as a re-lays stations. Lusaka Control Frequency. 120.500Mhz 8888.0Khz 8873.0Khz 6586.0Khz

Route designator Name of significant points Coordinates	Track MAG Rev Track MAG Length (NM)	Upper limit Lower limit MEA Airspace class	Lateral limits (NM) MOCA	Direction of cruising levels		RNP Type	Remarks
				Odd	Even		
1	2	3	4	5	6	7	
▲APGEL 11°05'42"S 031°47'00"E							
	220° 042° 139 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Mfuwe available as a re-lays stations. Lusaka Control Frequency. 120.500Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲GEPET 12°56'30"S 030°20'00"E							
	222° 042° 33 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Mfuwe available as a re-lays stations. Lusaka Control Frequency. 120.500Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲AVEKA 13°22'36"S 029°59'18"E							
	222° 043° 55 NM	FL245 FL145 Class A FL145 FL075 Class C	0	↑	↓		Two-way radio contact to be maintained with Area Control. Lusaka Control Frequency: 120.500Mhz 8888.0Khz 6586.0Khz
▲OKSIX 14°06'12"S 029°24'30"E							
	223° 044° 93 NM	FL245 FL145 Class A	0				Two-way radio contact to be maintained with Area Control.

Route designator Name of significant points Coordinates	Track MAG Rev Track MAG Length (NM)	Upper limit Lower limit MEA Airspace class	Later- al lim- its (NM) MOCA	Direction of cruising levels		RNP Type	Remarks
				Odd	Even		
1	2	3	4	5		6	7
		FL145 FL075 Class C					Lusaka Control Frequency: 120.500Mhz 8888.0Khz 6586.0Khz
▲KENNETH KAUNDA VOR/DME 'VLS' 15°19'41"S 028°25'15"E							
	230° 052° 161 NM	FL245 FL145 Class A FL145 FL075 Class C	0	↑	↓		Two-way radio contact to be maintained with Area Control. Lusaka Control Frequency: 120.500Mhz 8888.0Khz 6586.0Khz
▲AVOMU 17°13'58"S 026°26'53"E							
	233° 054° 50 NM	FL245 FL145 Class A FL145 FL075 Class C	0	↑	↓		Two-way radio contact to be maintained with Area Control. Lusaka Control Frequency: 120.500Mhz 8888.0Khz 6586.0Khz
▲HARRY MWAANGA NKUMBULA VOR/DME 'VLI' 17°48'45"S 025°49'12"E							

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