

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
B530							
▲NDOLA VOR/DME 'VND' 12°59'53"S 028°40'00"E							
	046° 224° 221 NM	FL245 FL145 Class A FL145 FL075 Class C	0	↓	↑		Two-way radio contact to be maintained with NDOLA APPROACH 120.000Mhz
▲KASAMA NDB 'KS' 10°12'30"S 031°08'25"E							
	063° 242° 110 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↓	↑		Two-way radio contact to be maintained with Lusaka Control in these airspaces. Lusaka Control Frequency: 8888.0Khz 120.500Mhz 6586.0Khz 6952.0Khz
▲UTEMA 09°17'49"S 032°45'08"E							
	063° 243° 48 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↓	↑		Two-way radio contact to be maintained with Lusaka Control in these airspaces. Lusaka Control Frequency: 8888.0Khz 120.500Mhz 6586.0Khz 6952.0Khz
▲MBEYA NDB 'MB' 08°55'34"S							

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	
033°27'27"E							
Two-way radio contact to be maintained with ATS in these airspace Ndola Approach Kasama /Mansa information available as relay stations Lusaka Contol Frequency: 120.500Mhz 8888.0Khz 6586.0Khz 6952.0Khz							