

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
A409							
▲SOBTO 10°03'54"S 028°56'44"E							
	189° 008° 63 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↑	↓		Two-way radio contact to be maintained with Area Control Area Control Frequency 120.500Mhz
▲MANSA NDB 'MA' 11°07'27"S 028°51'46"E							
	189° 009° 113 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↑	↓		Two-way radio contact to be maintained with Area Control Area Control Frequency 120.500Mhz
▲NDOLA VOR/DME 'VND' 12°59'53"S 028°40'00"E							
	189° 010° 58 NM	FL245 FL145 Class A FL145 FL075 Class C	0	↑	↓		Two-way radio contact to be maintained with Area Control Area Control Frequency 120.500Mhz
▲AVEKU 13°58'00"S 028°33'54"E							
	190° 011°	FL245 FL145	0				Two-way radio contact to be maintained

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				Odd	Even		
1	2	3	4	5		6	7
	82 NM	Class A FL145 FL075 Class C					with NDOLA AP- PROACH FREQ 120.000Mhz
▲LUSAKA VOR/DME 'VLS' 15°19'41"S 028°25'15"E							
	200° 021° 70 NM	FL245 FL145 Class A FL145 FL075 Class C	0	↑	↓		Two-way radio contact to be maintained with NDOLA AP- PROACH FREQ 120.000Mhz LUSAKA AP- PROACH FREQ 121.300Mhz
▲ETLUN 16°28'00"S 028°07'00"E							
	203° 023° 24 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↑	↓		Two-way radio contact to be maintained with LUSAKA AP- PROACH FREQ 121.300Mhz
▲ESTAK 16°51'00"S 028°00'000"E							
Two-way radio contact to be maintained with Lusaka Control in these airspaces. Lusaka Control Frequency: 8888.0Khz 120.500Mhz 6586.0Khz 6952.0Khz							