

## 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	Later- al lim- its (NM)	Direction of cruising levels		RNP Type	Remarks
				Odd	Even		
1	2	3	4	5		6	7
UA409							
▲SOBTO 10°03'54"S 028°56'44"E							
	<div>185°</div> <div>007°</div> <div>64 NM</div>	<div>UNL</div> <div>FL245</div> <div>Class A</div>		↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Ndola Approach available as a relay station. Lusaka Control Frequency 120.500Mhz 119.700Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲MANSA NDB 'MA' 11°07'27"S 028°51'46"E							
	<div>190°</div> <div>009°</div> <div>113 NM</div>	<div>UNL</div> <div>FL245</div> <div>Class A</div>		↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Ndola Approach available as a relay station. Lusaka Control Frequency 120.500Mhz 119.700Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲NDOLA VOR/DME 'VND' 12°59'53"S 028°40'00"E							
	<div>191°</div> <div>012°</div> <div>140 NM</div>	<div>UNL</div> <div>FL245</div> <div>Class A</div>		↑	↓		Two-way radio contact to be maintained with ATC in these airspaces. Ndola Approach available as a relay station. Lusaka Control Frequency 120.500Mhz 119.700Mhz

Route designator Name of significant points Coordinates	Track MAG Rev Track MAG Length (NM)	Upper limit Lower limit Airspace class	Later- al lim- its (NM)	Direction of cruising levels		RNP Type	Remarks
				Odd	Even		
1	2	3	4	5		6	7
							8888.0Khz 8873.0Khz 6586.0Khz
▲KENNETH KAUN- DA VOR/DME 'VLS' 15°19'41"S 028°25'15"E							
	<div>200°</div> <div>021°</div> <div>70 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 Approach available as a relay station. Lusaka Control Frequency 120.500Mhz 121.300Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲ETLUN 16°28'00"S 028°07'00"E							
	<div>203°</div> <div>023°</div> <div>24 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 Approach available as a relay station. Lusaka Control Frequency 120.500Mhz 121.300Mhz 8888.0Khz 8873.0Khz 6586.0Khz
▲ESTAK 16°51'00"S 028°00'00"E							
Two-way radio contact to be maintained with Lusaka Control in these airspaces. Lusaka Control Frequency: 8888.0Khz 120.5.500Mhz 6586.0Khz 6952.0Khz UA409 is also a contingency route							