

ENR 2.1 FIR, TMA

<i>Name Lateral limits Vertical limits Class of Airspace</i>	<i>Unit provid- ing service</i>	<i>Call sign lan- guages area and condi- tions of use hours of service</i>	<i>Frequency and Purpose</i>	<i>Remarks</i>
1	2	3	4	5
LUSAKA FIR Area bounded by lines joining points S 13°00'00" E 022°00'00"; S 13°00'00" E 023°00'00"; S 11°00'00" E 024°20'00"; S 12°00'00" E 025°30'00"; S 12°00'00" E 028°00'00"; S 08°07'00" E 029°53'00"; S 08°11'32" E 030°46'16" (Intersection of boundaries of the Democratic Republic of Congo, Tanzania and Zambia) and along the Tanzania/Zambia border up to S 09°22'00" E 033°00'00" then along Malawi/Zambia border up to S 14°00'00" E 033°15'00" then along Mozambique/Zambia border up to S 15°37'55" E 030°24'57" then along Zimbabwe/Zambia border up to S 17°48'08" E 025°15'52" then along Namibia/Zambia border up to S 17°39'00" E 023°26'00" then along Angola/Zambia border up to point of origin. <div> <div>UNL</div> <div>FL145</div> <div>Class: A</div> </div> <div> <div>FL145</div> <div>GND</div> <div>Class: C</div> </div> <div> <div>FL145</div> <div>GND</div> <div>Class: G</div> </div>	G/A/G	LUSAKA INFOR English HJ OUT-SIDE THESE HOURS VIA LUSAKA CONTROL	6952.0 KHZ	1) VDF available 2) Selcal not avble 3) ATS STNS avble on notified freqs as relay units during their hrs of service 4) Except when authorised no aircraft to be operated in this airspace unless two-way radio contact is maintained with ATC.
	LUSAKA ACC	LUSAKA CONTROL English H24	120.500 MHZ AREA CTRL FLIGHT INF SERVICE ADVISORY SERVICE 8888.0 KHZ REGIONAL NETWORK 8873.0 KHZ REGIONAL NETWORK 6586.0 KHZ REGIONAL NETWORK 6915.0 KHZ SUBREGION NETWORK	
	Radar Surveillance	Radar Surveillance English	124.300 MHZ	
LUSAKA UPPER CONTROL AREA (UTA) Area bounded by lines joining points S 17°25'00" E 023°04'00" then along the clockwise arc of a circle of 150NM radius centred on S 17°48'45" E 025°49'12" (VOR VLI); to S 12°00'00" E 026°21'00" then along the clockwise arc of a circle of 150NM radius centred on S 12°59'53" E 028°40'00" (VOR VND); to S	LUSAKA ACC	LUSAKA CONTROL English H24	120.500 MHZ Area/Enroute Control Primary Freqs 8888.0 KHZ 8873.0 KHZ 6586.0 KHZ secondary frequencies	VHF EXTND RANGE 120.500Mhz

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1	2	3	4	5
<p>10°33'00" E 023°04'00" then along the clockwise arc of a circle of 150NM radius centred on S 13°15'15" E 031°54'49" (VOR VMF); to to point of origin.</p> <p>UNL</p> <hr/> <p>FL245</p> <p>Class: A</p>				
<p>LIVINGSTONE CTA1 Area bounded by lines joining points S 17°34'00" E 025°02'00" then along the clockwise arc of a circle of 50NM radius centred on S 17°48'42" E 025°49'11" (VOR VLI); to S 17°02'00" E 026°03'00"; S 17°34'00" E 026°37'00"; S 18°04'00" E 026°36'00" then along Zimbabwe/Zambia border up to S 17°34'00" E 025°01'00" to point of origin.</p> <p>FL245</p> <hr/> <p>FL145</p> <p>Class: A</p> <p>FL145</p> <hr/> <p>FL065</p> <p>Class: C</p> <p>FL065</p> <hr/> <p>GND</p> <p>Class: G</p>	FLHN ATS	Livingstone Tower English 0500-1600	118.100 MHZ VDF available in approach	<p>1) VDF AVBLE 2) Except where authorised, no aircraft is to be operated in this airspace unless two way radio contact is maintained with ATC</p>
	LIVINGS-TONE APP	Livingstone Approach English 0500-1600	124.300 MHZ	
	Radar Surveillance	Radar Surveillance English	124.300 MHZ	
<p>LIVINGSTONE CTA2 Area bounded by lines joining points S 17°02'00" E 026°03'00"; S 16°27'00" E 026°41'00"; S 17°01'00" E 027°15'00"; S 17°34'00" E 026°37'00" to point of origin.</p> <p>FL245</p> <hr/> <p>FL145</p> <p>Class: A</p> <p>FL145</p> <hr/> <p>FL115</p> <p>Class: C</p>	LIVINGS-TONE APP	Livingstone Approach English 0500-1600	124.300 MHZ	<p>1) VDF AVBLE 2) Except where authorised, no aircraft is to be operated in this airspace unless two way radio contact is maintained with ATC</p>

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1	2	3	4	5
FL115 GND Class: G				
LUSAKA TMA 1 Area bounded by lines join- ing points S 14°00'00" E 029°24'00"; S 14°34'50" E 029°21'28"; S 14°03'09" E 030°17'25"; S 14°43'58" E 030°17'51"; S 15°10'14" E 029°16'03" then along the clock- wise arc of a circle of 50NM ra- dius centred on S 15°19'41" E 028°25'15" (VOR VLS); to S 15°54'35" E 029°03'02" then along Zimbabwe/Zam- bia border up to S 16°03'04" E 028°51'40" then along the clock- wise arc of a circle of 50.07NM radius centred on S 15°19'41" E 028°25'15" (VOR VLS); to S 15°31'25" E 027°34'56"; S 14°38'32" E 027°44'16"; S 13°51'19" E 027°11'44"; S 13°39'14" E 027°33'14"; S 14°01'00" E 027°46'04"; S 14°00'00" E 029°24'00" to point of origin. FL245 FL145 Class: A FL145 FL075 Class: C FL075 GND Class: G	FLKK TWR	TWR English	118.100 MHZ	1) VDF AVBLE 2) Except when authorised no aircraft to be operated in this airspace unless twoway radio contact is maintained with ATC. 3) All ACFT operating with in FL 245/GND in this airspace shall be allocated:- a) Northbound ACFT ODD IFR levels. b) Southbound ACFT EVEN IFR levels from 152000S to 155953S 4) No IFR flights below FL080
	LUSAKA APP	LUSAKA APP English H24	121.300 MHZ APPROACH DEPARTURE TMA CTRL.	
	LUSAKA RADAR	LUSAKA AP- PROACH RADAR English 0400 - 1800	120.100 MHZ RADAR SURVEIL- LANCE. RADAR VEC- TORS. ASSIS- TANCE TO AIRCRAFT IN EMERGENCY.	
LUSAKA TMA 2 Area bounded by lines joining points S 16°08'27" E 028°12'36" then along the counter clock- wise arc of a circle of 50.03NM radius centred on S 15°19'41" E 028°25'15" (VOR VLS); to S 16°09'06" E 028°34'23"; S 16°35'25" E 028°35'08" then				1) VDF AVBLE 2) Except when authorised no aircraft to be operated in this airspace unless two way radio contact is maintained with ATC.

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1	2	3	4	5
<p>along Zimbabwe/Zambia border up to S 16°49'25" E 028°08'19" to point of origin.</p> <p>FL245 FL145 Class: A</p> <p>FL145 FL075 Class: C</p> <p>FL075 GND Class: G</p>				
<p>LUSAKA TMA 3 Area bounded by lines joining points S 16°08'07" E 028°11'16"; S 17°01'00" E 027°15'00"; S 16°27'00" E 026°41'00"; S 15°32'42" E 027°35'19" then along the counter clockwise arc of a circle of 50.01NM ra- dius centred on S 15°19'41" E 028°25'15" (VOR VLS); to to point of origin.</p> <p>FL245 FL145 Class: A</p> <p>FL145 FL075 Class: C</p> <p>FL075 GND Class: G</p>				<p>1) VDF AVBLE 2) Except when authorised no aircraft to be operated in this airspace unless two way radio contact is maintained with ATC.</p>
<p>MFUWE TMA Area bounded by lines join- ing points S 12°58'00" E 030°18'40"; S 13°01'38" E 031°05'37" then along the clock- wise arc of a circle of 50NM ra- dius centred on S 13°15'43" E 031°54'49" (VOR VMF); to S 13°00'02" E 032°43'30"; S 13°00'00" E 032°56'20"; S 14°00'00" E 032°35'03"; S</p>	MFUWE APP.	MFUWE APP. English HJ	120.700 MHZ AP- PROACH/DE- PAR TERMI- NAL AREA CONTROL 6915.0 KHZ Sub-regional network 6952.0 KHZ Domestic flight	<p>1) VDF AVAILABLE 2) Except when authorised, no aircraft to be operated in this airspace unless two-way radio contact is maintained with Air Traffic Control.</p>

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1	2	3	4	5
<p>14°00'00" E 032°18'40" then along the clockwise arc of a circle of 50NM radius centred on S 13°15'43" E 031°54'49" (VOR VMF); to S 14°05'22" E 031°47'07"; S 14°43'58" E 030°17'51"; S 14°03'09" E 030°17'25"; S 13°34'46" E 031°07'01" then along the clockwise arc of a circle of 50NM radius centred on S 13°15'43" E 031°54'49" (VOR VMF); to S 13°21'57" E 031°03'56"; S 13°18'19" E 030°16'59" to point of origin.</p> <div><div>FL245</div><div>FL145</div><div>Class: A</div></div> <div><div>FL145</div><div>FL075</div><div>Class: C</div></div> <div><div>FL075</div><div>GND</div><div>Class: G</div></div>			information service network	
NDOLA TMA Area bounded by lines joining points S 14°01'00" E 027°46'04";	NDOLA APP	Ndola Approach English 0400-1800 and O/R	119.700 MHZ VDF avbl. 123.925 MHZ	1) VDF AVAILABLE 2) Except when authorised, no

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1	2	3	4	5
<p>S 13°39'14" E 027°33'14"; S 13°12'58" E 027°18'27"; S 12°34'21" E 027°28'56"; (WPT IBGOX); S 12°00'07" E 027°25'23"; S 12°00'00" E 028°00'00"; S 11°56'00" E 028°02'00"; S 11°48'00" E 028°08'00"; S 12°11'08" E 028°28'55" then along the clock- wise arc of a circle of 50NM ra- dius centred on S 12°59'53" E 028°40'00" (VOR VND); to S 12°10'51" E 028°51'01"; S 11°28'00" E 029°29'00"; S 12°00'00" E 030°06'00"; S 12°42'05" E 029°27'51" then along the clockwise arc of a circle of 50NM radius centred on S 12°59'53" E 028°40'00" (VOR VND); to S 12°54'27" E 029°30'54"; S 12°57'59" E 030°18'33"; S 13°18'19" E 030°16'59"; S 13°14'30" E 029°29'43"; S 14°00'00" E 029°24'00" to point of origin.</p> <p>FL245 FL145 Class: A</p> <p>FL145 FL075 Class: C</p> <p>FL075 GND Class: G</p>	NDOLA TWR	Kapwep- we Tower English 0400-1800 and O/R	118.000 MHZ	<p>aircraft to be operated in this airspace unless two way radio contact is maintained with Air Traffic Control. 3) Northbound ACFT odd IFR Flight Levels within the Ndola/Lusaka TMA from 155953S to 152000S a) Southbound ACFT even IFR Flight Levels within the Ndola/Lusaka TMA from 155953S to 152000S 4) No IFR flights permitted below FL 080 in these airspace</p>
<p>Solwezi TMA Area bounded by lines joining points S 12°00'07" E 027°25'23"; S 12°34'21" E 027°28'56"; (WPT IBGOX); S 13°12'58" E 027°18'27"; S 13°39'14" E 027°33'14"; S 13°51'19" E 027°11'44"; S 13°19'37" E 026°50'05" then along the clock- wise arc of a circle of 70NM ra- dius centred on S 12°10'14" E 026°21'49" (NDB SW); to S 11°45'23" E 025°12'52" then</p>	SOLWEZI TWR	Solwezi Approach English 0400-1600 and O/R	123.925 MHZ APP/DEP TER- MINAL AREA CONTROL.	Contiguous with: Ndola TMA Linked to Lusaka TMA by a corridor.

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1	2	3	4	5
along FIR boundary with Congo DR up to point of origin. <div><div>FL245</div><div>FL145</div><div>Class: A</div></div> <div><div>FL145</div><div>FL085</div><div>Class: C</div></div> <div><div>FL085</div><div>GND</div><div>Class: G</div></div>				

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