

ENR 2.1 FIR, TMA

Name Lateral limits Vertical limits Class of Airspace	Unit providing service	Call sign languages area and conditions of use hours of service	Frequency and Purpose	Remarks
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 style="text-align: center;"> UNL <hr/> FL145 Class: A <hr/> FL145 <hr/> GND Class: C <hr/> FL145 <hr/> GND Class: G </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	
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 10°33'00" E 023°04'00" then	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 EXTD RANGE 120.500Mhz

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1	2	3	4	5
<p>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><u>UNL</u> FL245 Class: A</p>				
<p>LIVINGSTONE CTA FLHN1 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. FLHN2 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>_____</p>	FLHN ATS	Livingstone Tower English 0500-1600	118.100 MHZ VDF available in approach	Nil
<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. <u>FL245</u> FL145 Class: A <u>FL145</u></p>	LIVINGS- TONE APP	Livingstone Approach English 0500-1600	124.300 MHZ	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

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1	2	3	4	5
FL065 Class: C <hr/> FL065 GND Class: G				
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. <hr/> FL245 FL145 Class: A <hr/> FL145 FL115 Class: C <hr/> FL115 GND Class: G	LIVINGS- TONE APP	Livingstone Approach English 0500-1600	124.300 MHZ	1) VDF AVBLE 2) Except where autho- rised, no aircraft is to be operated in this airspace unless two way radio con- tact is maintained with ATC
LUSAKA TMA FLKK1 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				1) 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>14°01'00" E 027°46'04"; S 14°00'00" E 029°24'00" to point of origin. FLKK3 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. 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 along Zimbabwe/Zambia border up to S 16°49'25" E 028°08'19" to point of origin.</p>				
<p>LUSAKA TMA 1 Area bounded by lines join- ing points S 14°00'00" E</p>	LUSAKA APP	LUSAKA APP English H24	121.300 MHZ APPROACH DEPARTURE TMA CTRL.	1) VDF AVBLE 2) Except when authorised no

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1	2	3	4	5
<p>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.</p> <p>FL245 FL145 Class: A</p> <p>FL145 FL075 Class: C</p> <p>FL075 GND Class: G</p>	LUSAKA RADAR	LUSAKA AP- PROACH RADAR English 0400 - 1800	120.100 MHZ RADAR SURVEIL- LANCE. RADAR VEC- TORS. ASSIS- TANCE TO AIRCRAFT IN EMERGENCY.	<p>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</p>
<p>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 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>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>

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1	2	3	4	5
FL145 FL075 Class: C FL075 GND Class: G				
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 radius centred on S 15°19'41" E 028°25'15" (VOR VLS); to to point of origin. FL245 FL145 Class: A FL145 FL075 Class: C FL075 GND Class: G				1) VDF AVBLE 2) Except when authorised no aircraft to be operated in this airspace unless two way radio contact is maintained with ATC.
MFUWE TMA Area bounded by lines joining points S 12°58'00" E 030°18'40"; S 13°01'38" E 031°05'37" 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°00'02" E 032°43'30"; S 13°00'00" E 032°56'20"; S 14°00'00" E 032°35'03"; S 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	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 information ser- vice network	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.

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1	2	3	4	5
<p>030°17'25"; S 13°34'46" E 031°07'01" 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°21'57" E 031°03'56"; S 13°18'19" E 030°16'59" to point of origin.</p> <p><u>FL245</u> FL145 Class: A</p> <p><u>FL145</u> FL075 Class: C</p> <p><u>FL075</u> GND Class: G</p>				
<p>NDOLA TMA Area bounded by lines joining points S 14°01'00" E 027°46'04"; 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><u>FL245</u> FL145</p>	NDOLA APP	Ndola Approach English 0400-1800 and O/R	119.700 MHZ VDF avbl.	<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. 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 airspaces</p>

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1	2	3	4	5
Class: A <u>FL145</u> FL075 Class: C <u>FL075</u> GND Class: G				
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 along FIR boundary with Congo DR up to point of origin. <u>FL245</u> <u>FL145</u> Class: A <u>FL145</u> <u>FL085</u> Class: C <u>FL085</u> GND Class: G	SOLWEZI TWR	Solwezi Approach English 0400-1600 and O/R	123.925 MHZ	Contiguous with: Ndola TMA Linked to Lusaka TMA by a corridor.