GEN 2. TABLES AND CODES

GEN 2.1 MEASURING SYSTEM, AIRCRAFT MARKINGS, HOLIDAYS

1. Units of measurement

The table of units of measurement shown below will be used by aeronautical stations within Lilongwe FIR for air and ground operations.

2. Time system

2.1 Co-ordinated Universal Time (UTC) is used in ATS, AIS and Communication Services. Reporting of time is expressed to the nearest minute eg 12 hrs 40 min 40 sec is reported as 1241.

2.2 The day of 24 hours begins at midnight UTC and is divided into hours, minutes and seconds.

2.3 Local time in Malawi is UTC plus 2 hours.

3. Geodetic Reference Datum

3.1 ***Name/Designation of datum***
Modified Clarke 1880

A programme is currently underway to transform geographical coordinates which are expressed in terms of Modified Clarke 1880 Geodetic system into the World Geodetic System - 1984 (WGS 84). This will be done progressively and as a consequence WGS-84 coordinates will be published in this AIP as they become available. To avoid confusion, ***WGS-84 coordinates will be printed in italics throughout this publication***.

3.2 ***Area of application***

The area of application for the published co-ordinates coincides with the area of responsibility of the Aeronautical Information Service (as well as the portions of the airspace over the territories of bordering states encompassed by the Lilongwe Flight Information Region or Control Area (CTA) in accordance with bilateral agreements or regional air navigation agreements).

3.3 ***Use of an asterisk to identify published geographical coordinates***

An asterisk (*) will be used to identify those published geographical coordinates which have been transformed into WGS-84 coordinates but whose accuracy of original field work does not meet the requirements of ICAO Annex 11, Chapter 2, and ICAO Annex 14, Volume I and II, Chapter 2. Specifications for determination and reporting of WGS-84 coordinates are given in ICAO Annex 11, Chapter 2 and ICAO Annex 14, Volume I and II, Chapter 2

3.1 ***Procedures***

3.1.1 Operators wishing to overfly or land in Malawi must apply to the Director of Civil Aviation for permission to carry out such operation not less than forty-eight hours (48hrs) prior to the intended operation.

3.1.2 All applications will be addressed to Lilongwe Flight Information Centre on the following address:-

a) AFTN: FWLLZIZX

b) Commercial:-

1. **Telegraphic:** CIVAIR LILONGWE

2. **Fax:** +265(0) 1 700 849/ +265 (0) 1 700 294

3. **E-mail**: aviationlia@malawi.net

c.) Mail address:-
Flight Information Centre
Kamuzu International Airport
P O Box 44, Lumbadzi, Malawi

d) Telephone: +265 (0) 1 700 766; +265 (0) 1 701 013 and must include the following information:-

1. Full names of operator and all members of crew.

2. Aircraft type, nationality and registration marks.

3. Departure point before entering Malawi airspace and point of first intended landing.

4. Route timings including, in case of overflights, the position and time of entry into and exit from Malawi airspace.

5. Purpose of flight: If business visit, nature of business and name, address and Telephone number of organization in Malawi being visited.

6. Number and names of passengers and status of V.I.P. carried; Agent in Malawi.

Notes a) *The forty-eight (48) hour requirement is also applied to Malawi registered aircraft.*

b) *In the case of operators wishing to overfly Malawi their full names and address shall be included in the application*

c) *When permission is granted, the permit number shall be included in the flight plan item 18; eg (RMK/Permit Nr 205/03).*

3.2 ***Documentary requirement for clearance of aircraft***

The same requirement as for SCHEDULED FLIGHTS and in addition, by Customs, two (2)

copies of the General Declaration (Malawi Customs Form Nr 2).

4. **Private Flights**

4.1 ***Advance notification of arrival***

The same requirements as for NON-SCHEDULED flights.

4.2 ***Documentary requirements for clearance of aircraft***

4.2.1 *Aircraft documents required on arrival*

Required by:-

Immigration:-
General declaration - 4 copies

Customs:
General declaration - 1 copy
Cargo manifest - 1 copy

Note: A cargo manifest is only required in respect of a private flight when goods other than personal effects are to be imported into Malawi.

4.2.2 *Aircraft documents required on departure*

Required by:
Customs:
Report of departure (Malawi Customs Form Nr 7) - 2 copies

5. **State or military aircraft**

5.1 ***Advance notification of arrival***

5.1.1 Except where a special agreement exists between Malawi and the State concerned, any state that desires that its state or military aircraft should overfly or land within Malawi should make application to the Secretary for Foreign Affairs and International Co-operation.. Refer GEN 1.1.

5.1.2 Application should be made at least six (6)days before the proposed flight is to take place.

5.1.3 Application should contain the information listed in paragraph 3.2 and in addition the type and amount of any military equipment to be carried aboard the aircraft.

6. **Public health measures applied to aircraft**

No public health measures are required to be carried out in respect of aircraft entering Malawi with the following exceptions:

Aircraft arriving from any locally infected Yellow Fever area (as promulgated by the World Health Organization) will be sprayed on arrival by the Public Health authorities, unless the pilot-in-command certifies that the aircraft was properly disinfected immediately prior to taxiing out at the last point of departure within such locally infected area.

Name *Lateral limits* *Vertical Limits* *Class of airspace*	*Unit providing service*	*Call sign* *Languages* *Area and conditions of use* *Hours of service*	*Frequency/Purpose*	*Remarks*
1	2	3	4	5
LILONGWE FIR				
1. Airspace outside the Chileka CTR, TMA and Lilongwe CTR, TMA and CTA encompassed by a line from 0936S 03338E along the national boundary east and south to 160641S 0353907E, then along and 50 NM radius from Chileka DVOR/DME "VCL" *(154021S 0345459E)* clockwise to 155125S 0340420E, then a straight line to 143600S 0334100E, then along the national boundary to 110600S 0332100E, then a straight line to 104830S 03324E then along the national boundary to 1012S 03331E, and a straight line northwards to 093600S 0333800E UNL GND Class of airspace: G	Lilongwe FIC	Lilongwe Information Eng H24	120.6 Mhz 8888 Khz 3425 Khz 4657 Khz	VHF extended omni- directional antenna located at Zomba (Southern Malawi) and Nyika Plateau (Northern Malawi)
2. Airspace lying between Malawi national boundary and a straight line joining northwards from 1106S 03321E to 104830S 03324E, then between the Malawi national boundary and a straight line joining northwards from 1012S 03331E to 0936S 03338E. FL 245 GND Class of airspace: G	Lilongwe FIC	Lilongwe Information ENG H24	120.6 Mhz 8888 Khz 3425 Khz 4657 Khz	VHF extended omni-directional antenna located at Zomba (Southern Malawi) and Nyika Plateau (Northern Malawi)
3. Airspace lying between Malawi national boundary and a straight line from 104830S 03324E to 101230S 0333140E UNL FL 245 Class of Airspace: G	Lilongwe FIC	Lilongwe Information ENG H24	120.6 Mhz 8888 Khz 3425 Khz 4657 Khz	VHF extended omni-directional antenna located at Zomba (Southern Malawi) and Nyika Plateau (Northern Malawi)
UIR: NIL				

Name *Lateral limits* *Vertical Limits* *Class of airspace*	*Unit providing service*	*Call sign* *Languages* *Area and conditions of use* *Hours of service*	*Frequency/Purpose*	*Remarks*
1	2	3	4	5
1. **LILONGWE CONTROL AREA (CTA)** Airspace encompassed by a line from 1120S 03451E southwards along FIR boundary to 160641S 0353907E then along the Chileka TMA boundary (see 3 below) northwards to 155125S 0340420E then northwards along FIR boundary to 1500S 03348E then a straight line to 1500S 0331509E then an arc of 80 NM radius from Lilongwe DVOR/DME "DVL" (*134840S 0334828E*) clockwise to 141445S 0323730E then a straight line to 113013S 0333833E then another straight line eastwards to 1120S 03451E UNL FL145 Class of airspace: A	Lilongwe APP	Lilongwe APP Eng HR: as AD (see latest NOTAM or AIP supplement)	128.0 Mhz 124.7 Mhz/Radar 121.5 Mhz/Emerg Freq.	VDF avbl; Radar freq/VDF avbl, in use when radar service is provided. Monitored all the time during Hrs of service. CTA is airspace outside Lilongwe and Chileka TMAs.
2. **LILONGWE TMA** Airspace encompassed by a line from 145520S 03359E to 143730S 0334820E then an arc of 50 NM radius from Lilongwe DVOR/DME "DVL" (*134840S 0334828E*) thence clockwise to 1325S O3434E then another straight line to 141725S 03505E then another straight line to 145520S 03359E. UNL 7500ft ALT Class of airspace: C Class A above FL145	Lilongwe APP	Lilongwe APP Eng HR: as AD (see latest NOTAM or AIP Supplement)	128.0 Mhz 124.7 Mhz/Radar	VDF avbl Radar freq/VDF avbl, in use when radar service is provided.
3. **CHILEKA TMA** Airspace encompassed by a line from 141725S 03505E straight line to 150930S 03536E then an arc of 50 NM radius from Chileka DVOR/DME "VCL" (*154021S 0345459E*) clockwise to 1514S 0341030E then a straight line to 145520S 03359E then another straight line to 141725S 03505E. UNL 7500ft ALT Class of airspace: C Class A above FL145	Chileka APP	Chileka APP Eng HR: as AD (see latest NOTAM or AIP Supplement)	124.9 Mhz	VDF available

ENR 2.2 OTHER REGULATED AIRSPACE

DELEGATED AIRSPACE: MALAWI/ZAMBIA AND MALAWI/MOZAMBIQUE

2.2.1 The Aeronautical Authorities of Malawi and Zambia have arranged, by bilateral agreement, that responsibility for provision of air traffic services in the portions of their territorial airspaces shown on Enroute Charts (ENR 6, labelled 2, 3 and 4, will be as described below:-

a) Lilongwe FIR (portion numbered 2) which is the territorial airspace of Malawi:-

the delegation of ATS responsibilities for this portion of airspace shall be as follows-

i) From GND to FL 245 - Lilongwe FIR;

ii) From FL 245 to UNL- Lusaka FIR: - the procedures and communications will be as if the airspace were an integral part of Lusaka FIR.

b) Lilongwe FIR (portion labelled 3) which is the territorial airspace of Zambia: the delegation of ATS responsibilities shall be as follows:-

i) From GND to FL245 - Lusaka FIR

ii) From FL245 to UNL - Lilongwe FIR: - the procedures and communications will be as if the airspace were an integral part of Lilongwe FIR.

c) Lilongwe FIR (portion labelled 4) which is in fact the territorial airspace of Malawi - the delegation of ATS responsibilities shall be as follows:-

i) From GND to FL245 - Lilongwe FIR

ii) From FL245 to UNL - Lusaka FIR: the procedures and communications will be as if the airspace were an integral part of Lusaka FIR.

2.2.2 The Aeronautical Authorities of Malawi and Mozambique have arranged by bilateral agreement that Malawi Air Traffic services units will provide air traffic services on those portions of the Mozambique territorial airspace, lying within Lilongwe CTA, Lilongwe TMA and Chileka TMA though outside Malawi territorial airspace (see Chart ENR 6).

Procedures and communications will be those currently in force in Malawi as if those portions of the airspace were Malawi territorial airspace.

2.2.3 The Aeronautical Authorities of Malawi and Mozambique have arranged by bilateral agreement that Mozambique Air Traffic Services units will provide air traffic services on that portion of the Malawi territorial airspace outside Chileka TMA boundary though outside Mozambique territorial airspace (see Chart ENR 6).

Procedures and communications will be those currently in force in Mozambique as if that portion of the airspace were Mozambique territorial airspac

ENR 3. ATS ROUTES
ENR 3.1 LOWER ATS ROUTES

Route designator RNP [1] type [2] * Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
A400						For continuation see AIP Mozambique
▲ MIROS (TMA/FIR BDRY) 153800S 0340300E	096 276 30 NM	FL245 GND 6000 FT Class C Below 7500 FT Class G Above FL145 Class A	18 (10)	↓		Chileka APP Frequency 124.9Mhz Below 7500FT: Lilongwe Information Freq. 120.6Mhz/or HF
△ CTR BDRY 153900S 0343354E	096 276 20 NM	FL 245 GND 6000 FT Class C Above FL 145 - Class A		↑		Chileka APP Freq. 124.9Mhz
▲ CHILEKA VOR/DME (VCL) *154021S 0345459E*	109 289 20 NM	FL 245 FL110 7000 FT Class C Above FL 145 Class A	18 (10)	↓		Chileka APP Freq. 124.9Mhz For ADDN COM See FWCL AD 2.23
△ CTR BDRY 154436S 351436E	109 289 30 NM	FL 245 FL 110 11000 FT Class C Above FL 145 - Class A		↑		
▲ MELNA (TMA BDRY) *155153S 0354525E*						For continuation see AIP Mozambique
A 404						
▲ CHILEKA VOR/DME (VCL) *154021S 0345459E*	255 075 20 NM	FL 245 GND 7000 FT Class C Above FL145 - Class A	18 (10)	↓		Chileka APP Freq. 124.9Mhz
△ CTR BDRY 154730S 0343500E	255 075 30 NM	FL 245 GND 7000 FT Class C Above FL 145 - Class A Below 7500 FT - Class G		↑		Chileka APP 124.9Mhz Below 7500 FT: Lilongwe Information Freq. 120.6 Mhz or HF
▲ LABLO (TMA/FIR BDRY) *155735S 0340630E*						For continuation, see AIP Mozambique

1. RNP = required navigation performance
2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 3.1 LOWER ATS ROUTES(cont'd)

Route designator RNP ' type ' * Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
A406						For continuation See AIP Zambia
▲ AXEBO (FIR BDRY) 133146S 0324939E	109 289 10 NM	FL245 1000 FT AGL 7000 FT ALT Class C Above FL 145 - Class A Below 7500FT - Class G	18 (10)	↓		Lilongwe App Freq 128.0 Mhz Below 7500 FT Lilongwe Information Freq 120.6 Mhz
△ TMA BDRY 133435S 0325920E	109 289 30 NM					
△ CTR BDRY 134255S 0332839E					↑	
	109 289 20NM	FL245 GND 7000 FT ALT Class C Above FL145 - Class A	18 (10)	↓		Lilongwe App Freq 128.0MHz
▲ LILONGWE VOR/DME DVL *134840S 0334828E*					↑	

1. RNP = required navigation performance
2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 3.1 LOWER ATS ROUTES(cont'd)

Route designator RNP [1] type [2] * Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
B400						For continuation See see AIP Mozambique
▲ ELEPA (CTA BDRY) 145640S 0330435E	035 215 30 NM	FL 245 FL 145 Class A	18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz Below FL 145 Beira ACC/FIC
△ TMA BDRY 143058S 332105E	035 215 30 NM	FL 245 7000 FT ALT 7000 FT Class C Above FL 145 - Class A				Lilongwe App 128.0 Mhz
△ CTR BDRY 140532S 0333731E	035 215 20 NM	FL 245 GND 7000 FT Class C Above FL 145 - Class A		↑		
▲ LILONGWE VOR/DME(DVL) *134840S 0334828E*	041 221 20 NM	FL 245 GND 7000 FT Class C Above FL 145 - Class A	18 (10)	↓		
△ CTR BDRY 133249S 0340107E	041 221 30 NM	FL 245 7000FT 7000 FT Class C Above FL 145 - Class A				
△ TMA BDRY 130909S 0342003E	041 221 42 NM			↑		
▲ NIBOR (CTA/FIR BDRY) 123600S 0344540E						For continuation see AIP Mozambique

1. RNP = required navigation performance
2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 3.1 LOWER ATS ROUTES(cont'd)

Route designator RNP [1] type [2] * Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
G656 ▲ OVANA (FIR BDRY) 093650S 0333000E						For continuation see AIP Tanzania
	179 359 64 NM	FL 245 FL 100 10000FT Class G	18 (10)	↓		Lilongwe Information Freq. 120.6Mhz or HF
▲ MEKRO 104200S 0333500E	179 359 48 NM					
▲ ANTOP (CTA BDRY) 113000S 0333830E	179 359 88 NM	FL 245 FL 100 10000FT Above FL 145 Class A Below FL 145 - Class G				Lilongwe APP Freq. 128.0 Mhz Lilongwe Information 120.6 Mhz below FL 145
△ TMA BDRY 125820S 0334512E	179 359 30 NM	FL 245 FL 100 10000FT Class C Above FL145 - Class A				Lilongwe APP Feq. 128.0Mhz
△ CTR BDRY 132812S 0334712E	179 359 20 NM	FL 245 FL 100 7000 FT Class C Above FL 145 - Class A		↑		
▲ LILONGWE VOR/DME(DVL) *134840S 0334828E*	187 007 20 NM	FL 245 7000FT 7,000 FT Class C Above FL 145 - Class A	18 (10)	↓		Lilongwe APP Freq 128.0 Mhz
△ CTR BDRY 140830S 0334715E	187 007 30 NM	FL 245 7,000 FT ALT 7000FT Class C Above FL 145 - Class A Below 7500 FT ALT - Class G				Lilongwe APP Freq. 128.0 Mhz Below 7500 FT ALT Lilongwe Information Freq. 120.6Mhz
△ TMA BDRY 143850S 0334501E	187 007 21 NM	FL 245 7000 FT ALT 7000 FT Class C Above FL 145 - Class A		↑		Above FL 145 Lilongwe APP Freq. 128.0Mhz
▲ MUTAR (CTA BDRY) 150000S 0334300E						For continuation see AIP Mozambique

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2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 3.1 LOWER ATS ROUTES (cont'd)

Route designator RNP [1] type [2] * Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
R409 ▲ ESPOP (CTA BDRY) 150000S 0331600E						For continuation see AIP Mozambique
	028 208 28 NM	FL 245 FL 145 Class A	18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz
△ TMA BDRY 143400S 0332750E	028 208 30 NM	FL 245 7500 FT ALT 7000FT ALT Class C Below 7500 FT Class G Above FL 145 - Class A				Lilongwe APP Freq. 128.0 Mhz Below 7500FT Lilongwe Information 120.6Mhz
△ CTR BDRY 140630S 0334030E	028 208 20 NM	FL 245 GND 7000 FT ALT Class C Above FL 145 - Class A		↑		Lilongwe APP Freq. 128.0 Mhz
▲ LILONGWE VOR/DME(DVL) *134840S 0334828E*	016 196 20 NM		18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz
△ CTR BDRY 132900S 0335340E	016 196 30 NM	FL 245 7000 FT ALT 7000 FT Class C Above FL 145 - Class A Below 7500 FT Class G				Lilongwe APP Freq. 128.0 Mhz Below 7500 FT Lilongwe Information Freq. 120.6 Mhz
△ TMA BDRY 125950S 0340115E	016 196 99 NM			↑		
▲ IMKAL (CTA BDRY) 112330S 0342545E						For continuation see AIP Tanzania
R 410 ▲ LILONGWE VOR/DME(DVL) *134840S 0334828E*						
	154 334 20 NM	FL 245 GND 7000 FT ALT Class C Above FL 145 - Class A	18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz
△ LILONGWE CTR BDRY 140600S 0335904E	154 334 43 NM	FL 245 7500 FT ALT 9000 FT Class C Above FL 145 - Class A Below 7500 FT Class G				
▲ TETEM (TMA BDRY) *144302S 0342040E*	155 335			↑		Chileka APP Freq. 124.9Mhz Below 7500 FT Lilongwe Information Freq. 120.6 Mhz
△ CHILEKA CTR BDRY 152255S 0344433E	46					

1. RNP = required navigation performance
2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 3.1 LOWER ATS ROUTES (cont'd)

Route designator RNP [1] type [2] * Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
R410 (cont'd)						
△ CHILEKA CTR BDRY 152255S 0344433E						
	155 335 20 NM	FL 245 GND 7000 FT ALT Class C Above FL 145 - Class A	18 (10)	↓	↑	Chileka APP Freq. 124.9Mhz
▲ CHILEKA VOR/DME(VCL) *154021S 0345459E*						
	225 045 20 NM	FL 245 7000FT ALT 7000 FT Class C Above FL 145 - Class A	18 (10)	↓		
△ CHILEKA CTR BDRY 155510S 0344100E						
	225 045 30 NM	FL 245 5000 FT ALT 5000 FT Class C Above FL 145 - Class A Below 7500 FT- Class G		↑		Chileka APP Freq 124.9Mhz Below 7500 FT Lilongwe Information Freq. 120.6Mhz (see AD 2.23)
▲ OKMAT (CHILEKA TMA (FIR BDRY) *161817S 0342024E*						
R782						For continuation see AIP Zambia
▲ LABON (CTA/FIR BDRY) 134000S 0324800E						
	101 281 10 NM	FL 245 7000 FT ALT 9000 FT Above FL 145 - Class A Below FL 145 - Class G	18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz Below 7500 FT Lilongwe Infromation Freq. 120.6 Mhz
△ TMA BDRY 134130S 0325730E						
	101 281 30 NM	FL 245 7000 FT ALT 7000 FT Class C Above FL 145 - Class A Below 7500 FT - Class G				
△ CTR BDRY 134550S 0332810E						
	101 281 20 NM	FL 245 7000 FT ALT 7000 FT Class C Above FL 145 - Class A			↑	Lilongwe APP Freq. 128.0 Mhz
▲ LILONGWE VOR/DME(DVL) *134840S 0334828E*						
	072 252 20 NM	FL 245 7000 FT ALT 7000 FT Class C Above FL 145 - Class A	18 (10)	↓		
△ CTR BDRY 134130S 340730E						
	072 252 30 NM	FL 245 7000 FT ALT 7000 FT Class C Above FL 145 - Class A Below 7500 FT Class G			↑	Lilongwe APP Freq. 128.0 Mhz Below 7500 FT ALT Lilongwe Information Freq. 120.6 Mhz
△ TMA BDRY 132029S 0343700E						

1. RNP = required navigation performance
2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 3.1 LOWER ATS ROUTES (cont'd)

Route designator RNP [1] type [2] * Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
△ TMA BDRY 132029S 0343700E						
	072 252 15 NM	FL 245 7000 FT ALT 7000 FT Class C Below 7500 FT - Class G Above FL 145 - Class A	18 (10)	↓	↑	
▲ KUSKI (CTA/FIR BDRY) 132518S 0345200E						For continuation see AIP Mozambique
R984 ▲ TIBAK (FIR BDRY) 124400S 0325925E						For continuation see AIP Zambia
	146 326 11 NM	FL245 FL145 Class G	18 (10)	↓		Lilongwe Information Freq 120.6 Mhz
△ CTA BDRY 125220S 0330530E	146 326 20 NM	FL245 FL145 Class A				Lilongwe Approach Freq 128.0
△ TMA BDRY 130820S 0331800E	146 326 50 NM	FL245 FL145 Class A			↑	
▲ Lilongwe VOR/DME(DVL) *134840S 0334828E*						
W14 ▲ KAVAL (CTA/FIR BDRY) 153100S 0335800E						For continuation see AIP Mozambique
	034 214 22 NM	FL 245 1000 FT AGL 7000 FT Class G Above FL 145 - Class A	18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz Below FL145: Lilongwe Information 120.6Mhz
△ TMA BDRY 151156S 0340914E	034 214 35 NM	FL 245 1000 FT AGL 7000 FT Class C Above FL 145 - Class A Below 7500 FT - Class G				Chileka APP Freq 124.9 Mhz Below 7500FT: Lilongwe Information 120.6 Mhz
△ TMA BDRY 143849S 0342744E	033 213 51 NM	FL 245 1000 FT AGL 9000 FT Class C Above FL 145 - Class A Below 7500 FT - Class G				Lilongwe APP Freq. 128.0 Mhz Below 7500 FT Lilongwe Information Freq. 120.6 Mhz
△ TMA/CTA BDRY 135500S 0345130E	033 213 19 NM	FL 245 1000 FT AGL 9000 FT Class G Above FL 145 - Class A			↑	
▲ LONON (FIR BDRY) 133800S 0350130E						For continuation see AIP Mozambique

1. RNP = required navigation performance
2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 3.1 LOWER ATS ROUTES (cont'd)

Route designator RNP[1] type[2] * Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	 Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
W601						
▲ LILONGWE VOR/DME(DVL)						
134840S 0334828E	008	FL 245	18	↓		Lilongwe APP Freq. 128.0 Mhz
	188	FL 7000	(10)			
		7000 FT				
	20 NM	Class C				
△ CTR BDRY		Above FL 145 - Class A				
132830S 0335000E	008	FL 245				
	188	FL 75				
		11000 FT				
	30 NM	Class C				
		Below 7500 FT - Class G				
▲ NALSA (TMA BDRY)		Above FL 145 - Class A				
125910S 0335255E	008	FL 245				Lilongwe APP Freq. 128.0 Mhz
	188	FL 75				
		11000 FT				Below FL 145
	94 NM	Class G				Lilongwe Information
▲ MZUZU VOR/DME(VMZ)		Above FL 145 - Class A			↑	Freq. 120.6 Mhz
112449S 0340006E	359	FL 245	18	↓		Lilongwe Information
	179	1000 FT AGL	(10)			Freq. 120.6 Mhz or HF
		11000 FT				
▲ KARONGA VOR/DME(VKA)	88 NM	Class G			↑	
095712S 0335329E						

1. RNP = required navigation performance
2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 3.2 UPPER ATS ROUTES

Route designator RNP [1] type [2] Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
UA400						For continuation see AIP Mozambique
▲ MIROS (TMA/FIR (BDRY) 153800S 0340300E	096 276 50 NM	UNL FL 245 Class A	18 (10)	↓	↑	Chileka APP Freq. 124.9 Mhz
▲ CHILEKA VOR/DME(VCL) *154021S 0345459E*	109 289 50 NM	UNL FL 245 Class A	18 (10)	↓	↑	Chileka APP Freq. 124.9Mhz
▲ MELNA (TMA BDRY) *155153S 0354525E*						For continuation see AIP Mozambique
UA404						
▲ CHILEKA VOR/DME(VCL) *154021S 0345459E*	255 075 50 NM	UNL FL 245 Class A	18 (10)	↓	↑	For continuation see AIP Mozambique Chileka APP Freq. 124.9 Mhz
▲ LABLO (TMA/FIR BDRY) *155735S 0340630E*						For continuation see AIP Mozambique
UA406						For continuation see AIP Zambia
▲ AXEBO (CTA/FIR BDRY) 133146S 0324939E	109 289 10 NM	UNL FL245 Class A	18 (10)	↓		Lilongwe Approach Freq 128.0 Mhz
△ LILONGWE TMA BDRY 133435S 0325920E	109 289 50 NM				↑	
△ LILONGWE VOR/DME(DVL) 134840S 0334828E						
UA407G						For continuation see see AIP Tanzania
▲ ORLIM 104800S 0342500E	051 231 59 NM	UNL FL 245 Class G	18 (10)		↓	Lilongwe Information Freq. 120.6 Mhz of HF
△ UTALA 112500S 0333740E	051 231 25 NM				↑	
▲ GIPVO (FIR BDRY) 114000S 0331800E						For continuation see AIP Zambia

1. RNP = required navigation performance
2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 3.2 UPPER ATS ROUTES (cont'd)

Route designator RNP[1] type[2] * Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
UB400						For continuation see AIP Mozambique
▲ ELEPA (CTA BDRY) 145640S 0330435E	035 215 30 NM	UNL FL 245 Class A	18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz
△ LILONGWE TMA BDRY 143058S 0332105E	035 215 50 NM				↑	
▲ LILONGWE VOR/DME (DVL) *134840S 0334828E*	041 221 50 NM	UNL FL 245 Class A	18 (10)	↓		
△ TMA BDRY 130909S 0342003E	041 221 42 NM				↑	
▲ NIBOR (CTA/FIR BDRY) 123600S 0344540E						For continuation see AIP Mozambique
UG656						
▲ OVANA (FIR BDRY) 093650S 0333000E	179 359 64 NM	UNL FL 245 Class A			↓	For continuation see AIP Tanzania Lilongwe APP Freq. 128.0 Mhz
▲ MEKRO 104200S 0333500E	179 359 42NM					
△ UTALA 112500S 0333740E	179 359 06NM					
▲ ANTOP (CTA BDRY) 113000S 0333830E	179 359 88 NM					
△ TMA BDRY 125820S 0334512E	179 359 50 NM			↑		
▲ LILONGWE VOR/DME (DVL) *134840S 0334828E*	187 007 50 NM	UNL FL 245 Class A	18 (10)		↓	Lilongwe APP Freq. 128.0 Mhz
△ TMA BDRY 143850S 0334501E	187 007 21 NM			↑		
▲ MUTAR (CTA BDRY) 150000S 0334300E						For continuation see AIP Mozambique

1. RNP = required navigation performance
2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 3.2 UPPER ATS ROUTES (cont'd)

Route designator RNP [1] type [2] * Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
UR409						For continuation see AIP Mozambique
▲ ESPOP (CTA BDRY) 1500S 0331600E	028 208 28 NM	UNL FL 245 Class A	18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz
△ TMA BDRY 143400S 0332750E	028 208 50 NM				↑	
▲ LILONGWE VOR/DME(DVL) *134840S 0334828E*	016 196 50 NM	UNL FL 245 Class A	18 (10)	↓		
△ TMA BDRY 125950E 0340115E	016 196 99 NM				↑	
▲ IMKAL (CTA BDRY) 112330S 0342545E						For Continuation see AIP Tanzania
UR410						
▲ LILONGWE VOR/DME(DVL) *134840S 0334828E*	154 334 63 NM	UNL FL 245 Class A	18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz
▲ TETEM (TMA BDRY) *144302S 0342040E*	155 335 66 NM				↑	Chileka APP Freq. 124.9 Mhz
▲ CHILEKA VOR/DME(VCL) *154021S 0345459E*	225 045 50 NM	UNL FL 245 Class A	18 (10)	↓	↑	
▲ OKMAT (TMA/FIR BDRY) *161817S 0342024E*						For continuation see AIP Mozambique
UR782						For continuation see AIP Zambia
▲ LABON (CTA/FIR BDRY) 134000S 0324800E	101 281 10 NM	UNL FL 245 Class A	18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz
△ TMA BDRY 134130S 0325730E	101 281 50 NM				↑	
▲ LILONGWE VOR/DME(DVL) *134840E 0334828E*	072 252 50 NM	UNL FL 245 Class A	18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz
△ TMA BDRY 132029S 0343700E	072 252 15 NM				↑	
▲ KUSKI (CTA/FIR BDRY) 132518S 0345200E						For continuation see AIP Mozambique

1. RNP = required navigation performance
2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 3.2 UPPER ATS ROUTES (cont'd)

Route designator RNP[1] type [2]* Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Airspace classification	Lateral Limits KM (NM)	Direction of cruising levels Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5		6
UR 984						For continuation See AIP Zambia
▲ TIBAK (FIR BDRY) 124400S 0325925E	146 326 11 NM	UNL FL245 Class G	18 (10)	↓	↑	Lilongwe Information Freq 120.6 Mhz
△ CTA BDRY 125220S 0330530E	146 326 20 NM	UNL FL245 Class A	18 (10)	↓		Lilongwe APP Freq. 128.0 MHz
△ TMA BDRY 130820S 0331800E	146 326 50 NM				↑	
▲ LILONGWE VOR/DME (DVL) 134840S 0334828E						
UW14						For continuation see AIP Mozambique
▲ KAVAL (CTA/FIR BDRY) 153100S 0335800E	034 214 57 NM	UNL FL 245 Class A	18 (10)	↓	↑	Chileka APP Freq. 124.9 Mhz
△ TMA BDRY 143849S 0342744E	033 213 70 NM	UNL FL 245 Class A	18 (10)	↓	↑	Lilongwe APP Freq. 128.0 Mhz
▲ LONON (FIR BDRY) 133800S 0350130E						For continuation see AIP Mozambique
UW601						
▲ LILONGWE VOR/DME(DVL) *134840S 0334828E*	008 188 50 NM	UNL FL 245 Class A	18 (10)	↓		Lilongwe APP Freq. 128.0 Mhz
▲ NALSA (TMA BDRY) *125910S 0335255E*	008 188 94 NM				↑	
▲ MZUZU VOR/DME(VMZ) *112449S 0340006E*	359 179 88 NM	UNL FL 245 Class G	18 (10)	↓	↑	Lilongwe Information Freq. 120.6 Mhz of HF
▲ KARONGA VOR/DME(VKA) *095712S 0335329E*						

1. RNP = required navigation performance
2. RNP type = A containment value expressed as a distance in nautical miles from the intended position within which flights would be situated for at least 95 per cent of the total flying time.

* RNP type not yet determined

ENR 4. RADIO NAVIGATION AIDS/SYSTEMS

ENR 4.1 RADIO NAVIGATION AIDS - EN-ROUTE

Name of station (VOR/VAR)	*ID*	*Frequency (CH)*	*Hours of operation*	*Coordinates*	*ELEV DME Antenna*	*Remarks*
1	2	3	4	5	6	7
Chileka VOR/DME (5° W)	VCL	113.3Mhz (CH 80X)	H24	*154021S 0345459E*	2425FT	Coverage 200NM
Chileka NDB	CL	253Khz	H24	*154050S 0345729E*		Coverage 200NM
Karonga VOR/DME (4° W)	VKA	115.3Khz (CH 100X)	H24	*095714S 0335328E*		Coverage100NM
Karonga NDB	KA	245Khz	H24	*095706S 0335342E*		Coverage 50NM
Lilongwe VOR/DME (3° W)	DVL	114.9Mhz (CH96X)	H24	*134840S 0334828E*	4100.8FT	Coverage 200NM
Lilongwe NDB	LH	378Khz	H24	*135033S 0335051E*		Coverage 200NM
Mzuzu VOR/DME (5° W)	VMZ	116.1Mhz (CH 108X)	H24	*112449S 0340006E*		Coverage 100NM
Mzuzu NDB	UU	227Khz	H24	*112635S 0340050E*		Coverage 50NM

ENR 4.3 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS

Name-code designator	*Coordinates*	*ATS route or other routes*
1	2	3
ANTOP	113000S 0333830E	G656/UG656
AXEBO	133146S 0324939E	A406/UA406
ELEPA	145640S 0330435E	B400/UB400
ESPOP	150000S 0331600E	R409/UR409
GIPVO	114000S 0331800E	UA407G
IMKAL	112330S 0342545E	R409/UR409
KAVAL	*153217S 0335812E*	W14
KUSKI	132518S 0345200E	R782/UR782
LABON	134000S 0324800E	R782/UR782
LABLO	*155735S 0340630E*	A404/UA404
LONON	133800S 0350130E	W14
MEKRO	104200S 0333500E	G656/UG656
MELNA	*155153S 0354524E*	A400/UA400
MIROS	153800S 0340300E	A400/UA400
MUTAR	150000S 0334300E	G656/UG656
NALSA	*125910S 0335255E*	W601/UW601
NIBOR	123600S 0344540E	B400/UB400
OKMAT	*161817S 0342024E*	R410/UR410
ORLIM	104800S 0342500E	UA407G
OVANA	093650S 0333000E	G656/UG656
TETEM	*144302S 0342040E*	R410/UR410
TIBAK	124400S 0325925E	R984/UR984
UTALA	112500S 0333740E	UA407/UG656

ENR 4.4 AERONAUTICAL GROUND LIGHTS - EN-ROUTE

Name IDENT (Coordinates)	*Type and intensity*	*Characteristics*	*Operating hours*	*Remarks*
1	2	3	4	5
Bangula MBC 163439S 0350623E	HBN	FLG R	HN	
Chilumba 1025S 03416E	Marine	FLG(1) W EV 9 Sec	H24	
Chizumulu Island 1201S 03437E	Marine	FLG(1) W EV 9 Sec	H24	
Kambwe Lagoon 0953S 03357E	Marine	FLG(½) W EV 4½ Sec	H24	
Karonga MBC 095647S 0335456E	HBN	FLG R	HN	
Katenga Isle 1355S 03438E	Marine	FLG (1) W EV 9 Sec	H24	
Lilongwe MBC 140007S 0334506E	HBN	FLG R	HN	
Mangochi MBC 142713S 0351334E	HBN	FLG R	HN	
Mbenji Isle 1325S 03429E	Marine	FLG(1/4) W EV 2 1/4 Sec	H24	
Mzuzu MBC 1130S 03356E	HBN	FLG R	HN	
Namalenje Island 1344S 03438E	Marine	FLG (½) W EV 4½ Sec	H24	
Ngumbe MBC 154205S 0350139E	HBN	FLG R	HN	
Nkhatabay 1136S 03418E	Marine	FLG (1) W EV 9 Sec	H24	
Nkhotakota 1253S 03421E	Marine	FLG R (½) W EV 4½ Sec	H24	
Nkhotakota MBC 125725S 0341750E	HBN	FLG	HN	
Tumbi Isle (East Monkey Bay) 1403S 03455E	Marine	FLG (½) W EV 4 ½ Sec	H24	
Zimbawe Rock 1357S 03448E	Marine	FLG (1/4) W EV 2½ Sec	H24	
Kasungu MBC 130229S 0332942E	HBN	FLG R	HN	

ENR 5. NAVIGATION WARNINGS

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS

1. All airspace in which a potential hazard to aircraft operations may exist and all areas over which the operation of aircraft may, for one reason or another be restricted either temporarily or permanently, are classified according to the following three types of areas as defined by ICAO.

1.1 ***Danger Area***
An airspace of defined dimensions within which activities dangerous to the flight of aircraft may exist at specified times. This term is used only when the potential danger to aircraft has not led to the designation of an airspace as restricted or prohibited. The effect of creation of the danger area is to caution operators or pilots of aircraft that it is necessary for them to assess the dangers in relation to their responsibility for the safety of their aircraft.

1.2 ***Prohibited Area***
An airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is prohibited. This term is used only when the flight of civil aircraft within the designated airspace is not permitted at any time under any circumstances.

1.3 ***Restricted Area***
An airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is restricted in accordance with certain specified conditions. This term is used whenever the flight of civil aircraft within the designated airspace is not absolutely prohibited, but may be made only if specified conditions are complied with. Thus, prohibition of flight except at certain specified times leads to the designation of a restricted area. Similarly, prohibition of flight except at certain specified times or in certain meteorological conditions would lead to the designation of a restricted area.

2. Each area is numbered and a single series of numbers is used for all areas, regardless of type, to ensure that a number is never duplicated.

3. The type of area involved is indicated by the letter "P" for Prohibited, "R" for Restricted and "D" for Danger, preceded by the nationality letters "FW". Thus areas are assigned numbers and letters in the following manner:- FWP1, FWD2, FWD3, FWP4, FWR5, FWD6, etc.

4. Each area is described in the tabulation found at ENR 5.1-2 and 5.1-3 which indicates its lateral and vertical limits, the type of restriction or hazard involved and other pertinent information.

TABLE 5.1.4 PROHIBITED, RESTRICTED AND DANGER AREAS

Identification and Name *Lateral Limits*	*Upper Limits* *Lower Limits*	*Remarks (time of activity, type of restriction, nature of hazard, risk of interception)*
1	2	3
DANGER AREAS		
FWD1 North Vipya Firing range A circle, 5NM radius centred at 1107S 03406E	FL230 GND	Ground to air firing, prior notice of activity by NOTAM
RESTRICTED AREAS		
FWR2 Kanyimbi A circle, 1.5NM radius centred at 1406S 03358E	1250ft AGL GND	PJE day and night
FWR3 - Salima A Circle, 1.5NM radius centred at 1344S 03433E	3500ft AGL GND	PJE day light hours only (2NM NW of Salima Aerodrome). Pilots using aerodrome should exercise extreme caution when approaching to land on Rwy 18 and when climbing out after take-off on Rwy 36.
FWR4 Nyika National Park Area bounded by lines joining successively the following points - 1027S 03352E - 1036S 03356E - 1038S 03400E - 1044S 03358E - 1042S 03350E - 1043S 03348E - 1040S 03347E - 1043S 03339E - 1042S 03334E - along the Malawi/Zambia International boundary to 1034S 03342E - 1032S 03342E - 1028S 03345E - 1025S 03344E - 1023S 03347E - 1027S 03352E	1500ft AGL GND	Game reserve Except for the purpose of landing or taking off or in an emergency, no person shall fly any aircraft at an altitude of less than 1500ft above ground except with the prior permission of the Chief Game Warden.
FWR5 - Kasungu National Park Area bounded by lines joining successively the following points - 1254S 03318E - 1254S 03321E - 1300S 03321E - 1312S 03313E - 1321S 03255E - along Malawi/Zambia International boundary to 1231S 03319E - 1254S 03318E	1500ft AGL GND	Game reserve Except for the purpose of landing or taking off or in an emergency, no person shall fly any aircraft at an altitude of less than 1500ft above ground except with the prior permission of the Chief Game Warden.
FWR6 - Liwonde National Park Area bounded by lines joining successively the following points - 1501S 03514E - along Shire River to 1447S 03517E - 1445S 03516E - 1442S 03517E - 1443S 03520E - 1446S 03520E - 1440S 03527E - 1453S 03524E - 1500S 03525E - 1503S 03523E - 1504S 03517E - 1501S 03514E	1500ft AGL GND	Game reserve Except for the purpose of landing or taking off or in an emergency, no person shall fly any aircraft at an altitude of less than 1500ft above ground except with the prior permission of the Chief Game Warden.
FWR7 - Lengwe National Park Area bounded by lines joining successively the following points - 1612S 03445E - 1615S 03452E - 1618S 03453E - 1619S 03450E - 1617S 03447E - 1613S 03442E - 1612S 03445E	1500ft AGL GND	Game reserve Except for the purpose of landing or taking off or in an emergency, no person shall fly any aircraft at an altitude of less than 1500ft above ground except with the prior permission of the Chief Game Warden.
PROHIBITED AREAS		
FWP8 - Blantyre The area within semi-circles 1 ½NM radius centred at 154717S 0345838E and 154740S 0350049E and joined by straight lines	6000ft AGL GND	Residence of H E The President of the Republic of Malawi
FWP9 - Zomba A circle, 2NM radius centred at 152249S 0351848E	6000ft AGL GND	Residence of H E The President of the Republic of Malawi

TABLE 5.1.4 PROHIBITED, RESTRICTED AND DANGER AREAS

Identification and Name *Lateral Limits*	*Upper Limits* *Lower Limits*	*Remarks (time of activity, type of restriction, nature of hazard, risk of interception)*
1	2	3
PROHIBITED AREAS /continued...		
FWP10 - Lilongwe The area within semi-circle 1.5NM radius centred at 135919S 0334530E and 1 NM radius centred at 135836S 0334907E respectively and joined by straight lines	6000ft AGL GND	Residence of H E The President of the Republic of Malawi
FWP 11 - Mzuzu The area within semi-circles 1 NM radius centred at 112752S 0340200E and 112726S 0340220E and joined by straight lines	6000ft AGL GND	Residence of H E The President of the Republic of Malawi. Flying restriction at Mzuzu AD: Right hand turn after take-off on Rwy 17

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS

Name Lateral Limits	*System/means of activation announcement INFO for CIV FLT*	*Remarks time of ACT*
1	2	3
TRAINING AREAS **ZOMBA EAST** 1500S 03530E - 1500S 03545E 1530S 03545E 1530S 03530E 1500S 03530E a)	a) When training operations are to be below 7000ft ALT contact should be made with Lilongwe FIC giving - i) call sign ii) type of aircraft iii) type of operation to be conducted iv) duration v) endurance b) Training operations above 7000ft ALT will be subject to clearance from Chileka Approach c) Non-participating flights will not be allowed to operate into this area unless clearance is obtained from Chileka Approach	FL110 GND

ENR 5.4 AIR NAVIGATION OBSTACLES - EN-ROUTE

a) In Malawi, "Air Navigation obstacle" is any building or work which attains or exceeds a height of 300 feet above ground level.

b) Details of these obstacles, of which the Department of Civil Aviation had been informed, are contained in the table below. The heights above ground level and the position correct to the nearest second are stated. In the case of tall masts the approximate position of the centre of the mast is given but it should be noted that stays may spread out for a considerable distance.

c) Air Navigation obstacles which are 300 feet or more above ground level will be lighted. Lighting is in the form of a red obstacle light, or lights positioned on or near the highest point of the obstacle. Additional lights may be positioned at different levels on the obstacle.

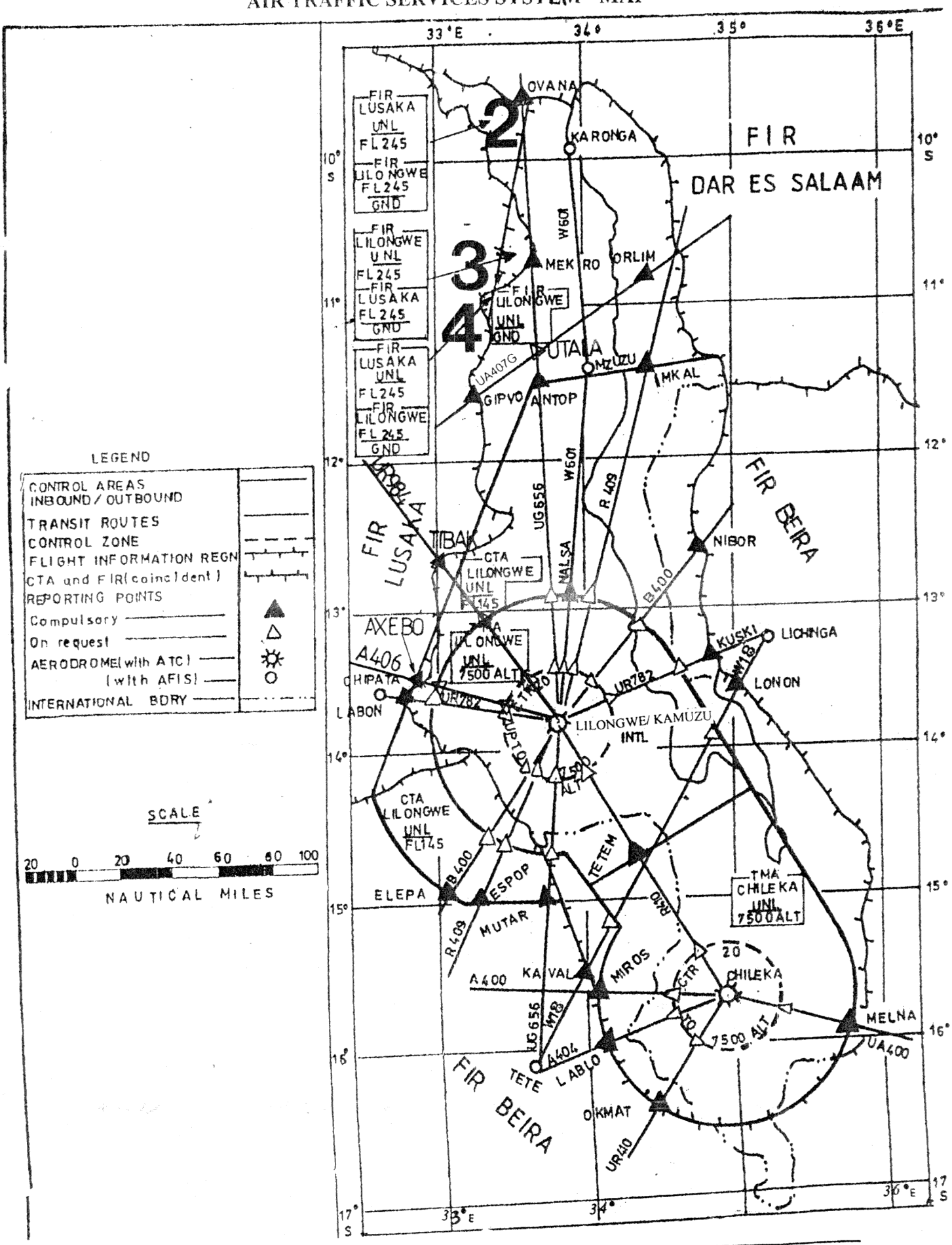
d) Notwithstanding the above, caution should be exercised as these lights may be switched off for defects or maintenance purposes at any time for prolonged periods, and this is not subject to publication of NOTAM on each occasion.

e) Many structures below 300 feet AGL have been positioned on high ground throughout the country and these are not listed in the following page. Attention is also drawn to the numerous over-head cables and telephone lines in all parts of the country, and in particular spanning rivers, valleys and hills. Low flying along rivers etc; can therefore, be an extremely hazardous practice. Caution should, therefore, be exercised at all times.

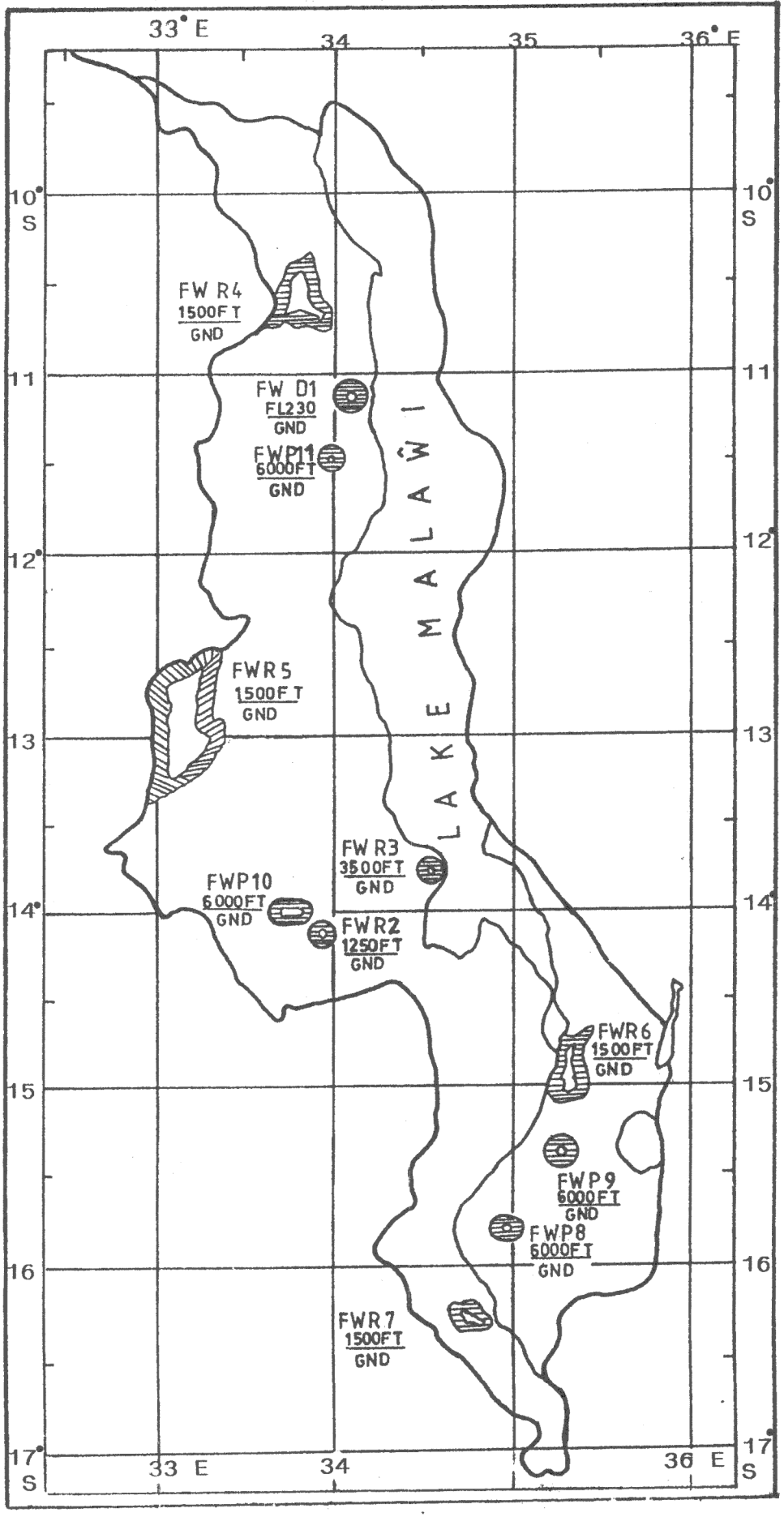
TABLE OF AIR NAVIGATION OBSTACLES - EN ROUTE

Designation	Type of Obstacle	Coordinates	HGT AGL (FT)	Obst LGT Type/Colour
1	2	3	4	5
Chintheche	Post Office Mast	114923S 341102E	335	Lighted
Lilongwe	Microwave Mast	135847S 334539E	335	Not lighted
Mangochi	Radio Mast	142800S 351600E	420	Lighted
Ngumbe	Radio Mast	154211S 350140E	360	Lighted
Salima	Post Office Mast	134645S 342721E	335	Not lighted
Wundaninge	Post Office Mast	102014S 341113E	328	Lighted
Mzuzu	Post Office Mast	113000S 340500E	305	Lighted

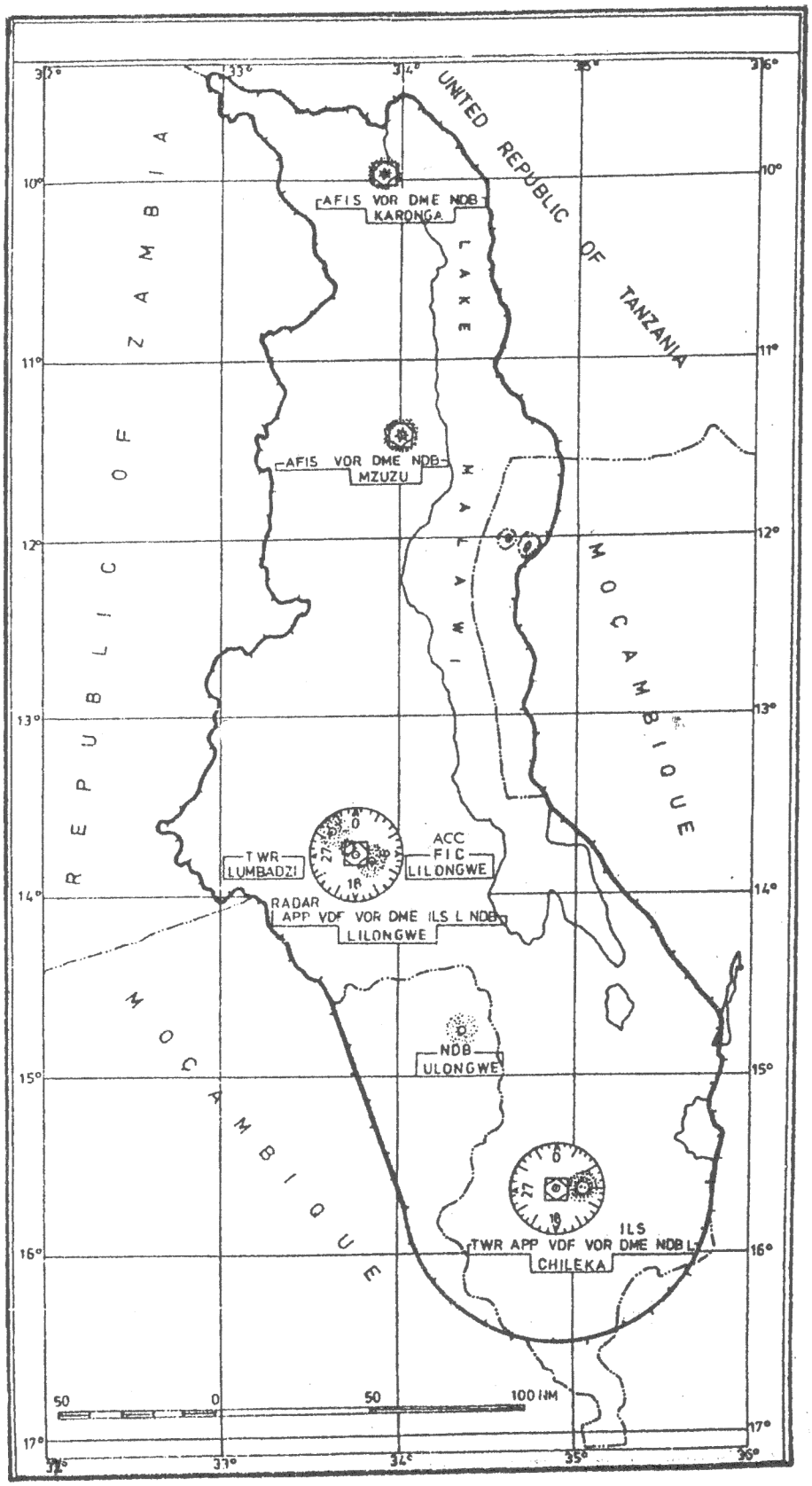
AIR TRAFFIC SERVICES SYSTEM - MAP



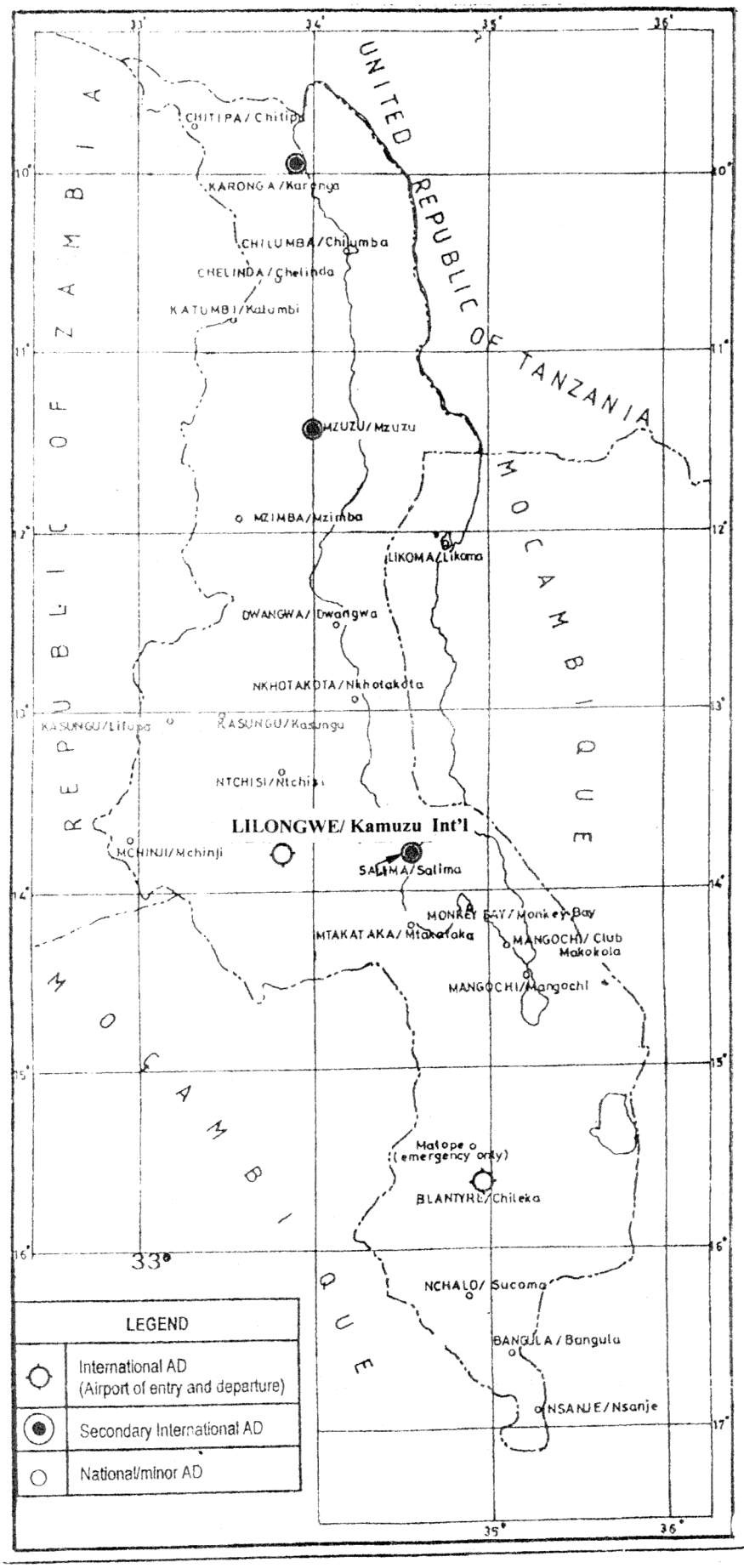
PROHIBITED, RESTRICTED AND DANGER AREAS - INDEX CHART



RADIO FACILITY - INDEX CHART



AERODROMES INDEX - CHART



FWCL AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			*In circling area and at AD*		*Remarks*
1			*2*		*3*
RWY/Area affected	*Obstacle type Elevation/FT Markings/LGT*	*Coordinates*	*Obstacle type Elevation Markings/LGT*	*Coordinates*	
a	b	C	a	b	
10/TKOF 28/Apch	Nanzengwa hill 3089.2 FT	*154043S 0350209E*	ATC TOWER 2575.3FT LTD	*154053S 0345818E*	Other mountains in Chileka TMA a) Kirk Range 30 - 50 NM (56 - 93 Km) fm THR, Elev 4766 ft (Thambani); 6047 ft (Tsangano) Brg 265 - 350 ° b) Mulanje 35 - 50 NM (65 - 93 Km) fm THR. Elev 9852 ft Brg 105 - 135° M c) Zomba Plateau 20-35NM (37-65Km) fm THR Elev 6846 Ft Brg 040-065°M
28/TKOF 10/APCH	NDB/L Antenna Pole 2604.9 FT LGTD	*(154050S 0345728E)*	Hangar roof 1 2558.6FT	*154051S 0345807E*	
10 /APCH	Antenna VOR 2424FT LGTD	*154021S 0345459E*	Jangar roof 2 2558.6FT	*154052S 0345807E*	
10/TKOF 28/APCH	LLZ Antenna - LGTD	*(154047S 0345853E)*	NDB Antenna Pole 2612.5fFTLGTD	*154051S 0345732E*	
10 /TKOF 28 TKOF	GP Antenna 2577.4FT LGTD	*(154035S 0345741E)*	Windsock Pole RWY 10 2488FT LGTD	*154032S 0345739E*	
10/28 TKOF	Anemometer antenna 2554.5FT LGTD	*154048S 0345820E*	Windsock mast RWY 28 2581.3FT LGTD	*154050S 0345845E*	
15/TKOF 33/APCH	Met Tower Mask 2594.9FT -	*154055S 0345829E*	Antenna on terminal Bldg 2577.2FT LGTD	*154052S 0345815E*	
15/TKOF 33/APCH	Ndirande Hill 5282 FT -	*154519S 0350326E*	Cell Phone Antenna 2613.1FT LGTD	*154057S 0345819E*	
10/TKOF 28/APCH	Chiradzulu Hill 5864.6 FT	*154159S 0350940E*	Michiru Hill 4831.2FT -	*154412S 0345743E*	
15/TKOF 33/APCH	Nyambadwe antenna 4843.5FT LGTD	*154610S 0350328E*	Ntawira hill 4189.9FT -	*154338S 0350448E*	
15/TKOF 33/APCH	CEll phone Antenna 3231.7 LGTD	*154336S 0350100E*	Floodlights 2605.1FT LGTD	*154053S 0345820E*	
10/TKOF 28/APCH	Chiraweni Hill 3658.7FT -	*154228S 0350332E*	VDF Antenna 2494.6FT LGTD	*154043S 0345738E*	
10/TKOF 28/APCH	Ngumbe Hill 2948.8FT	*154156S 0350053E*			
10/TKOF 28/APCH	MBC Antenna 3119.5FT LGTD	*154211S 0350140E*			
33/TKOF 15 APCH	Chilangoma Hill 2484.4FT	*153722S 0345608E*			

FWCL AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE and MAG BRG*	*Dimensions of RWY (M)*	*Strength (PCN) and surface of RWY and SWY*	*THR coordinates*	*THR elevation and highest elevation of TDZ of precision APP RWY*
1	*2*	*3*	*4*	*5*	*6*
10	096° GEO 101° MAG	2325x30	50/F/A/W/T Asphalt	*154038S 0345731E*	THR 2472FT (745M)
28	276° GEO 281° MAG	2325x30	50/F/A/W/T Asphalt	*154047S 0345849E*	THR 2555FT (779 M)
15	140° GEO 145° MAG	1372x30	15/F/A/Y/T Asphalt	*154016S0345802E*	THR 2468FT (752 M)
33	320° GEO 325° MAG	1372x30	15/F/A/Y/T Asphalt	*154051S0345832E*	THR 2546FT (775 M)

Slope of RWY - SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	*8*	*9*	*10*	*11*	*12*
0.4% - 1.5%	122	320	2617 x 152	Nil	Nil
1.5% - 0.4%	Nil	305	2617 x 152	Nil	Nil
2.0% - 2.1%	-	-	1504 x 152	Nil	Nil
2.1% - 2.0%	-	308	1508 x 152	Nil	Nil

FWCL AD 2.13 DECLARED DISTANCES

RWY DESIGNATOR	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*REMARKS*
1	*2*	*3*	*4*	*5*	*6*
10	2325	2545	2447	2325	Nil
28	2325	2645	2325	2325	Nil
15	1372	1372	1372	1372	Nil
33	1372	1680	1372	1372	Nil

FWCL AD 2.17 ATS AIRSPACE

1	*Designation and lateral limits*	CHILEKA CTR A circle, radius 20 NM centred at VOR/DME 'VCL' *154022S 0345459E*
2	*Vertical limits*	SFC to 7500 ft ALT
3	*Airspace classification*	C
4	*ATS unit call sign* *Language(s)*	Chileka Tower English
5	*Transition altitude*	7000 ft
6	*Remarks*	Nil

FWCL AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	*2*	*3*	*4*	*5*
APP	Chileka Approach	124.9 Mhz	0400 - 1700	VDF available
TWR	Chileka Tower	118.1 Mhz	0400 - 1700	VDF available

FWCL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (For VOR/ILS/MLS. give VAR)	*ID*	*Frequency*	*Hours of operation*	*Site of transmitting antenna coordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	*2*	*3*	*4*	*5*	*6*	*7*
VOR/DME (5°W 2001)	VCL	113.3Mhz CH80X	H24	*154022S 0345459E*	2424 FT	Coverage 200 NM
L	NC	356 Khz	H24	*154036S 0345712E*	-	Coverage 50 NM
LLZ (5°W 2001)	ICL	110.3Mhz	H24	*154047S 0345854E*	-	
NDB	CL	253 Khz	H24	*154051S 0345730E*	-	Coverage 200 NM
GP 10	ICL	335 Mhz	H24	*154036S 0345741E*	-	3° RDH 51 FT (15.35 M)
MM 10	Dashes/dots	75 Mhz	H24	*154035S 0345656E*	-	-
OM 10	Dashes	75 Mhz	H24	*154013S 0345342E*	-	-

FWKA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designation RWY NR	*TRUE & MAG BRG*	*Dimensions of RWY (M)*	*Strength (PCN and surface of and RWY SWY*	*THR coordinates*	*THR elevation and Highest elevation of TDZ of precision APP RWY*
1	**2**	**3**	**4**	**5**	**6**
14	138^0 GEO 140^0 MAG	1280 x 18	PCN10/F/C/Y/T	*095656S 0335321E*	Nil
32	318^0 GEO 320^0 MAG	1280 x 18	PCN10/F/C/Y/T	*095727S0335349E*	Nil

Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	*8*	*9*	*10*	*11*	*12*
0% - 1.6%	-	120 x -	1402 x 91	-	-
0% - 1.6%	-	120 x -	1402 x 91	-	-

FWKI AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			*In circling area and at AD*		*Remarks*
1			*2*		*3*
RWY/ Area affected	*Obstacle type Elevation Markings/LGT*	*Coordinates*	*Obstacle type Elevation Markings/LGT*	*Coordinates*	
A	*B*	*C*	*A*	*b*	
14/32 TKOF	ILS GP Antenna 4062.1FT LGTD	134655S 0334612E	Fire station Bldg 4053.6FT LGTD	*134711S 0334655E*	Some of the high areas within the Lilongwe CTR/TMA are tabulated as follows:-
14/32 TKOF	VDF Antenna 4024.8FT LGTD	134705S 0334627E	Fire station Antenna 4081FT LGTD	*134710S 0334654E*	
14/TKOF 32 APCH	Water tank Antenna 4163FT LGTD	134905S 0334828E	Thambe Hill 4245.3FT -	*134306S 0334827E*	
32/TKOF 14/APCH	MM Antenna - LGTD	134623S 0334539E	ATC Tower 4177.7FT LGTD	*134648S 0334647E*	
14/TKOF 32 APCH	LLZ Antenna - LGTD	134809S 0334749E	ATC Radar 4097FT LGTD	*134725S 0334643E*	
14TKOF 32 APCH	VOR Antenna 4100.8FT LGTD	134840S 0334028E	HF Antenna 4060.3FT LGTD	*134647S 0334627E*	
32 APCH	NDB (LH) Antenna - LGTD	135034S 0335051E	Windsock Pole 4044.5FT LGTD	*134639S 0334609E*	
14 APCH	NDB/L Antenna - LGTD	134415S 0334302E	Windsock Pole 4048FT LGTD	*134803S 0334733E*	
			Weather Anemometer 4060.7FT LGTD	134650S 0334626E	
			Water Twr 1 4110.7FT LGTD	134656S 0334709E	
			Water Twr 2 4172.2FT LGTD	134531S 0334830E	
			Cell Phone Antenna 4146.5FT LGTD	134657S 0334709E	
			MIM TV Antenna 4169.2FT LGTD	135217S 0334811E	
			VHF Antenna 4203FT LGTD	134717S 0334603E	
			Antenna on Mountain (MTN1) 5712.7FT LGTD	134104S 0335602E	
			Apron Light 4158.2FT LGTD	134658S 0334646E	
			WX Radar Antenna 4066FT LGTD	134719S 0334756E	

Name	BRG fm Lilongwe	Dist. Km (NM)	Elev of Spot height ft
1	2	3	4
Dowa Hills	040-062	13-19 (7-10)	5569
Chiponde Hill	005-015	14-19 (7.5-10)	5271
Chefu Hill	345	22 (12)	5038
Ngala ya pakamwa Hill	163	39 (21)	5131
Nkhoma hill	163	41(22)	5854
Tuna hill	113	44(24)	5123
Ngala hill	345	59 (32)	5054
Chongoni hill	144	63-67 (34-36)	7052
Dadzi hill	115	74 (40)	5188
Maluma hill	134	76-80 (41-43)	6746
Domwe hill	157	80-91 (47-49)	6855
Dedza hill	143	81 (44)	7412
Silamwezi hill	208	-	5619
Kazuzu Hill	219	-	5426

FWKI AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	*Associated Met Office*	LILONGWE
2	*Hours of Service* *Met Office outside hours*	H24 -
3	*Office responsible for TAF* *Periods of Validity*	LILONGWE H24
4	*Type of Landing forecast Interval of issue*	TREND H24
5	*Briefing/consultation provided*	Personal consultation, and telephone
6	*Flight documentation* *Language(s) used*	Charts abbreviated plain language text English
7	*Charts and other information available for briefing or consultation*	S, U, P, W SWH, SWM, T
8	*Supplementary equipment available for providing information*	-
9	*ATS Units provided with information*	Lilongwe FIC, APP, Lumbadzi TWR
10	*Additional Information (limitation of service, etc)*	Nil

FWKI AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE and MAG BRG*	*Dimensions of RWY (M)*	*Strength (PCN) and surface of RWY and SWY*	*THR coordinates*	*THR elevation and highest elevation of TDZ of precision APP RWY*
1	*2*	*3*	*4*	*5*	*6*
14	130° GEO 133° Mag	3540 x 45	PCN80/F/B/W/T Asphalt	*134645S 0334606E*	THR4025 FT(1227M)
32	310° GEO 313° Mag	3540 x 45	PCN80/F/B/W/T Asphalt	*134759S 0334737E*	THR4019FT (1225M)

Slope of RWY - SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	*8*	*9*	*10*	*11*	*12*
0.43% - 0.38%	-	500 x 130	4340 x 300	-	Nil
0.38% - 0.43%	-	300 x 300	4340 x 300	-	Nil

FWKI AD 2.17 ATS AIRSPACE

1	*Designation and lateral limits*	LILONGWE CTR A circle, radius 20 NM centred at VOR/DME 'DVL' *134840S 0334828E*
2	*Vertical limits*	SFC to 7500 ft ALT
3	*Airspace classification*	C
4	*ATS unit call sign* *Language(s)*	Lumbadzi Tower English
5	*Transition altitude*	7000 ft
6	*Remarks*	Nil

FWKI AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	*2*	*3*	*4*	*5*
APP	Lilongwe Approach	128.0 Mhz 121.5 Mhz	0400 - 1700 0400 - 1700	VDF available Emergency Freq.
TWR	Lumbadzi Tower	118.7 Mhz	0400 - 1700	VDF available
RADAR	Lilongwe Radar	124.7 Mhz	0400 - 1700	VDF available
AREA	Lilongwe Control	128.0 Mhz, 120.6 Mhz 8888 Khz	H24	120.6 Mhz with Extended range cover

FWKI AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT OF ILS/MLS (For VOR/ IS/MLS. Give VAR)	*ID*	*Frequency*	*Hours of operation*	*Site of transmitting antenna coordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	*2*	*3*	*4*	*5*	*6*	*7*
VOR/DME (3°W 2001)	DVL	114.9Mhz CH 96X	H24	*134840S 0334828E*	4100.8FT	Coverage 200 NM
L	KG	305 Khz	H24	*134414S 0334301E*	-	Coverage 100 NM
LLZ	KM	109.9Mhz	H24	*134808S 0334749E*		-
NDB	LH	378 Khz	H24	*135033S 0335051E*		Coverage 200 NM
GP 14	KM	333.8 Mhz	H24	*134654S 0334612E*		-
MM 14	Dashes/dots	75 Mhz	H24	*134622S 0334539E*		-
OM 14	Dashes	75 Mhz	H24	*134414S 0334301E*		-

FWLK AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE and MAG BRG*	*Dimensions of RWY (M)*	*Strength (PCN) and surface of RWY and SWY*	*THR coordinates*	*THR elevation and highest elevation of TDZ of precision APP RWY*
1	*2*	*3*	*4*	*5*	*6*
01	010° GEO Mag	1135 x 18	PCN20/R/D/Y/T	*120508S0344415E*	Nil
19	190° GEO Mag	1135 x 18	PCN20/R/D/Y/T	*126448S 0344422E*	Nil

Slope of RWY – SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	*8*	*9*	*10*	*11*	*12*
-	-	-	To be published	-	-
-	-	-	To be published	-	-

FWLK AD 2.13 DECLARED DISTANCES

RWY DESIGNATOR	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*REMARKS*
1	*2*	*3*	*4*	*5*	*6*
01	1135	1135	1135	1135	Nil
19	1135	1135	1135	1135	Nil

FWLK AD 2-14 APPROACH AND RUNWAY LIGHTING

Not available

FWLK AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	*ABN/IBN location, characteristics and hours of operation*	ABN: Nil IBN: Nil
2	*LDI location and LGT* *Anemometer location and LGT*	Nil
3	*TWY edge and centre line lighting*	Nil
4	*Secondary power supply/switch over time*	Nil
5	*Remarks*	Nil

FWLK AD 2.16 HELICOPTER LANDING AREA

Nil

FWUU AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE and MAG BRG*	*Dimensions of RWY (M)*	*Strength (PCN) and surface of RWY and SWY*	*THR coordinates*	*THR elevation and highest elevation of TDZ of precision APP RWY*
1	*2*	*3*	*4*	*5*	*6*
17	168° GEO 170° Mag	1308 x 19	PCN20/R/D/Y/T	*112618S0340037E*	Nil
35	348° GEO 350° Mag	1308 x 19	PCN20/R/D/Y/T	*112659S 340050E*	Nil

Slope of RWY – SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	*8*	*9*	*10*	*11*	*12*
-	-	200	To be published	-	-
-	-	200	To be published	-	-

FWUU AD 2.13 DECLARED DISTANCES

RWY DESIGNATOR	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*REMARKS*
1	*2*	*3*	*4*	*5*	*6*
17	1309	1509	1309	1309	Nil
35	1309	1509	1309	1309	Nil

FWUU AD 2-14 APPROACH AND RUNWAY LIGHTING

Not available

FWUU AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	*ABN/IBN location, characteristics and hours of operation*	ABN: Nil IBN: Nil
2	*LDI location and LGT* *Anemometer location and LGT*	 Nil
3	*TWY edge and centre line lighting*	Nil
4	*Secondary power supply/switch over time*	Secondary power supply to all lighting at AD Switch over time : 15 sec
5	*Remarks*	Nil

FWUU AD 2.16 HELICOPTER LANDING AREA

Nil

FWUU AD 2.17 ATS AIRSPACE

Nil

FWUU AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	*2*	*3*	*4*	*5*
AFIS	Mzuzu Information	118.1 Mhz	Mon-Fri 0600 - 1500 Sat, Sun: NIL	Consult latest NOTAM

FWUU AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT OF ILS/MLS (For VOR/ILS/MLS. Give VAR	*ID*	*Frequency*	*Hours of operation*	*Site of transmitting antenna coordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	*2*	*3*	*4*	*5*	*6*	*7*
VOR/DME 2°W (2001)	VMZ	116.1 Mhz CH108X	H24	*112449S 0340006E-*	-	100NM Coverage
NDB	UU	227 Khz	H24	*112635S 0340050E*	-	50 NM coverage

FWUU AD 2.20 LOCAL TRAFFIC REGULATIONS

Nil

FWUU AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

FWUU AD 2.22 FLIGHT PROCEDURES

Right hand turn on take-off on runway 17 compulsory.

FWUU AD 2.23 ADDITIONAL INFORMATION

Nil

FWSM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	*Associated Met Office*	SALIMA
2	*Hours of Service* *Met Office outside hours*	0400 - 1500
3	*Office responsible for TAF* *Periods of validity*	-
4	*Type of landing forecast* *Interval of issue*	-
5	*Briefing/consultation provided*	-
6	*Flight documentation* *Language(s) used*	-
7	*Charts and other information available for briefing or consultation*	-
8	*Supplementary equipment available for providing information*	-
9	*ATS Units provided with information*	-
10	*Additional information (Limitation of Service, etc.)*	Synop 3 - hourly observation

FWSM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE and MAG BRG*	*Dimensions of RWY (M)*	*Strength (PCN) and surface of RWY and SWY*	*THR coordinates*	*THR elevation and highest elevation of TDZ of precision APP RWY*
1	*2*	*3*	*4*	*5*	*6*
17	168° GEO 171° Mag	1384 x 45	MAUW 20000KG Grass	-	Nil
35	348° GEO 351° Mag	1384 x 45	MAUW 20000KG Grass	-	Nil

Slope of RWY - SWY	*SWY Dimensions (M)*	*CWY Dimensions (M)*	*Strip Dimensions (M)*	*OFZ*	*Remarks*
7	*8*	*9*	*10*	*11*	*12*
0.1% - 1.2%	-	171X -	1686 X 154	-	-
1.25% -0.1%	32 x 45	131X -	1686 X 154	-	-

FWSM AD 2.13 DECLARED DISTANCES

RWY DESIGNATOR	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*REMARKS*
1	*2*	*3*	*4*	*5*	*6*
17	1384	1555	1384	1384	-
35	1384	1515	1416	1384	-

FWSM AD 2-14 APPROACH AND RUNWAY LIGHTING

Nil

FWSM AD 2-15 OTHER LIGHTING, SECONDARY POWER SUPPLY

Nil

FWSM AD 2.16 HELICOPTER LANDING AREA

Nil

FWSM AD 1.17 ATS AIRSPACE

Nil

FWSM AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	*2*	*3*	*4*	*5*
Nil	Nil	Nil	Nil	Broadcast on 118.1 Mhz

FWSM AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Nil

FWSM AD 2.20 LOCAL TRAFFIC REGULATIONS

Nil

FWSM AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

FWCL AD 2.22 FLIGHT PROCEDURES

Nil

FWSM AS 2.23 ADDITIONAL INFORMATION

Nil

CITY/Aerodrome (Location Indicator)	Coordinates Location	Elev Ft (M) T cen	RWY NR	LANDING AREA Dimensions (M) RWY	SWY	CWY	Runway Slope	Surface	Strength MAUW KG	APCH Slope	ATS Airspace	ATS Communication	Lighting: APCH THR RWY Other	Ground Services	Aerodrome Operating Hours	Authority Supervising the Aerodrome and Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
BANGULA/ Bangula (FWBG)	1635S 03507E	300	17 35	790X30	136 160	-	-	Grass	6000	1:40 1:40	Class G	Broadcast 118.1Mhz	Nil	Nil	HJ	Department of Civil Aviation
CHELINDA/ Chelinda (FWCD)	1033S 03348E ½ NM N of Chelinda	7760 (2366) -	08 26	1295X30	91 60	-	1.50%	Grass on Sandy soil	6000	1:40 1:40	Class G	Boradcast 118.1 Mhz	Nil	Nil	HJ	Department of Parks & Wildlife P O Box 30131,Capital City Lilongwe 3 PLA (PRIV) PPR)
CHILUMBA/ Chilumba (FWCB)	1026S 03415E 2 NM E of Chilumba Trading Centre	1610 (491) -	08 26	906x30	-	123 105	-	Grass	6000	-	Class G	Boradcast 118.1 Mhz	Nil	Nil	HJ	Department of civil Aviation
CHITIPA/ Chitipa (FWCT)	0942S 03316E	4270 (1302) -	11 29	1815x44	60 60	400 275	-	Grass on gravel	34000	1:50 1:50	Class G	Broadcast 118.1 Mhz	Nil	Nil	HJ	Department of Civil Aviation
CLUB MAKOKOLA/ Club Makokola (FWCM)	1418S 03508E	1589 (484)	11 29	1090x19	60 60	-		Gravel	6000	1:30 1:40	Class G Above FL75 Class C	Braodcast 118.1 Mhz	Nil	Nil	HJ	Club Makokola P.O. Box 454 Blantyre Tel: +265 (0)1 584 244
DWANGWA/ Dwangwa (FWDW)	123054S 0340752E	1605 (489)	14 32	1200x30	-	-	-	Gravel	6000	1:40	Class G	Broadcast 118.1 Mhz	Nil	Nil	HJ	Dwangwa Sugar Cooperation Private Bag 3, Nkhotakota Tel.:+265 (0) 1 295266 Strip 1520x90 (M)
KASUNGU/ Kasungu (FWKG)	1301S 03328E 1.5NM W of Kasungu Boma	3470 (1058)	08 26	1200X18	60 60	60 142	-	Slurry seal bitumen	PCN 16 R\C\T\Y	1:30 1:30	Class G Above FL75 Class C	Broadcast 118.1 Mhz	Nil	Nil	HJ	Department of Civil Aviation
KASUNGU/ Lifupa (FWLP)	1303S 03308E 20 NM W of Kasungu Township	3330 (1015)	01 19	1097x30	60 60	90 90	-	Grass	6000	1:40 1:40	Class G Above FL75 Class C	Broadcast 118.1 Mhz	Nil	Nil	0800 to 1330	The Senior Game Warden, Kasungu National Park, P.O. Box 43, Kasungu Tel: +265 (0)1 253 357
KATUMBI/ Katumbi (FWKB)	1049S 03331E 1 NM SSW of Katumbi Village	3986 (1215)	18 36	1006x30	60 60	50 60	0.3%	Grass on sand	6000	1:25 1:35	Class G	Broadcast 118.1 Mhz	Nil	Nil	HJ	Department of Civil Aviation

CITY/Aerodrome	Coordinates Location	Elev Ft (M) T cen	RWY NR	LANDING AREA Dimensions (M) RWY	SWY	CWY	Runway Slope	Surface	Strength MAUW KG	APCH Slope	ATS Airspace	ATS Communication	Lighting: APCH THR RWY Other	Ground Services	Aerodrome Operating Hours	Authority Supervising the Aerodrome and Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
LIKOMA/ Likoma	1204S 03444E	1600 (488)	01 19	1135X18	71 60	-	1.80%	Slurry seal bitumen	6000	1:40 1:40	Class G	Broadcast 118.1 Mhz	Nil	Nil	HJ	Department of Civil Aviation
LIWONDE/ **Makanga** **(FWMK)**	1450S 03518E												Nil	Nil	HJ	Liwonde NationalPark MvuuCamp Management P.O.Box 41 Liwonde Tel:265(0)1 781393
MANGOCHI/ **Mangochi** **(FWMG)**	1429S 03515E 1NM S of Mangochi Boma	1580 (482M) 29.8	04 22	690x30	60 87	60 87		Grass	6000	-	Class G	Broadcast 118.1 Mhz	Nil	Nil	HJ	Department of Civil Aviation CAUTION Pilots should exercise caution due to cattle grazing in the vicinity
MATOPE/ **Matope**	1523S 03458E 2 NM S of Matope Mission	1655 (508)	17 35	640x30	60 60	300 60		Grass		1.35 1:50	Class C	Broadcast 118.1 Mhz Chileka App 124.9 Mhz	Nil	Nil	-	Department of Civil Aviation **EMERGENCY ONLY** Undulating surface
MCHINJI/ **Mchinji** **(FWMC)**	1348S 03254E ½ NM SE of Mchinji Boma	3900 (1189)	15 33	1000x30	90 175	171 175	0.1%	Grass	6000	1:20 1:30	Clss G above FL75 Class C	Braodcast 118.1 Mhz	Nil	Nil	HJ	Department of Civil Aviation
MONKEY BAY/ **Monkey Bay** **(FWMY)**	1406S 03455E 1 NM S of Promontory of bay	1580 (482)	01 19	980x30	117 30	117 30	0%	Grass	20000	1:30 1:30	Class G	Broadcast 118.1 Mhz	Nil	Nil	HJ	Department of Civil Aviation

CITY/Aerodrome	Coordinates Location	Elev Ft (M) T cen	RWY NR	LANDING AREA Dimensions (M) RWY	SWY	CWY	Runway Slope	Surface	Strength MAUW KG	APCH Slope	ATS Airspace	ATS Communication	Lighting: APCH THR RWY Other	Ground Services	Aerodrome Operating Hours	Authority Supervising the Aerodrome and Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
MTAKATAKA/ **Mtakataka** **(FWTK)**	1413S 03432E 2 NM NE of Mtakataka Township	1725 (526)	08 26	700X30	60 60	160 290		Grass	6000	1:25 1:25	Class G Above FL75 Class C					The Inspector General of Police, Private Bag 305, Lilongwe 3. RESTRICTION For use by Malawi Police and Army acft only. Other Government aircraft PNR
MZIMBA/ **Mzimba** **(FWMZ)**	1154S 03335E	4440 (1353) 24.7	14 32	871x32	30 30	30 30	-	Grass	6000 SIWL	1:35 1:30	Class G	Broadcast 118.1 Mhz	Nil	Nil	HJ	Department of Civil Aviation Tel.: +265 (0)1 342 214 (Met Office)
NCHALO/ **Sucoma** **(FWSU)**	1616S 03455E 3 NM NNW of Nchalo Market	225 (69)	16 34	732x30	-	258 260		Compacted	6000	1:40 1:40	Class G Above FL75 Class C	Broadcast 118.1 Mhz	Nil	Nil	HJ	Sugar Corperation of MW P.O. Box 5598 Limbe Tel: +265(0)1651522/ 428 200 +265 (0)1 640000 PLA (PRIV) PPR
NKHOTAKOTA/ **Nkhotakota** **(FWKK)**	1255S 03417E 1 NM NW of Nkhotakota Boma	1720 (524) 28.9	01 19	796x45	66 85	190 85		Grass	6000	1:35 1:35	Class G	Broadcast 118.1 Mhz	Nil	Nil	HJ	Department of Civil Aviation Avbl dry season only
NSANJE/ **Nsanje** **(FWSJ)**	1655S 03515E 3/4 NM WSW of Nsanje Boma	200 (61) 30.5	01 19	987x30	111 45	168 168		Grass	6000	1:25 1:35	Class G	Broadcast 118.1 Mhz	Nil	Nil	HJ	Department of Civil Aviation
NTCHISI/ **Ntchisi** **(FWCS)**	1322S 03351E 4 NM WSW of Ntchisi Boma	4300 (1310)	15 33	922x30	132 132	60 132	-2.4%	Grass	6000	1:30 1:30	Class G	Broadcast 118.1 Mhz	Nil	Nil	HJ	Department of Civil Aviation

CITY/Aerodrome	Coordinates Location	Elev Ft (M) T cen	RWY NR	LANDING AREA Dimensions (M) RWY	SWY	CWY	Runway Slope	Surface	Strength MAUW KG	APCH Slope	ATS Airspace	ATS Communication	Lighting: APCH THR RWY Other	Ground Services	Aerodrome Operating Hours	Authority Supervising the Aerodrome and Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Conforzi	1603S 03508E	3250 (991)	-	-	-	-	-	-	-	-	-	-	Nil	Nil	HJ	I. Conforzi Ltd, P.O. Box 1, Thyolo Tel: +265(0)1 472400
Napolo/Lichenya	15 59.326S 035 31.733' E	6600	10 28	681x30	-	-	-	Grass	-	-	-	-	Nil	Nil	HJ	Nyasa Tours, P.O Box 574 Blantyre. Tel:+265 (0)1 638471 Fax: +265(0)1 637496
Satemwa	1601S 03506E	3200 (975)	-	-	-	-	-	-	-	-	-	-	Nil	Nil	HJ	Satemwa Tea Estate, P.O. Box 6, Thyolo Tel: +265 (0)1 472233
Thunga	1601S 03503E	3925 (1196)	-	-	-	-	-	-	-	-	-	-	Nil	Nil	HJ	Central African Co. Ltd. P O Box 5598, Limbe
Vwaza	1108S 3338E	3750	14 32	861x25	-	-	-	Grass	-	-	Class G	-	Nil	Nil	HJ	National Parks and Wildlife, P.O. Box 30131, Lilongwe 3. Tel: 265 (0)1 775499 Fax: +265(0)1 774059