AIP

AERONAUTICAL INFORMATION PUBLICATION

SOMALIA

PART 3
AERODROME (AD)

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PART 3 – AERODRME (AD)

AD 0.

AD 0.6 TABLE OF CONTENTS TO PART 3

HCMH AD 2.

HCMI AD 2.

HCMF AD 2.

HCMV AD 2.

HCGR AD 2.

HCMK AD 2.

AD 1. AERODROMES/HELIPORTS — INTRODUCTION

AD 1.1 AERODROME/HELIPORT AVAILABILITY AND CONDITIONS OF USE

1.1.1 General conditions

a) With an exception of aerodromes in, Somaliland, Puntland, Beletuen, DussaMareb, Adado and Guryael, all other airports in Mogadishu FIR are closed for flights operations except for aircrafts on Humanitarian mission only. All Humanitarian flights intending to operate to such Airports other than those mentioned above must obtain clearance from Somalia Civil Aviation and Meteorology Authority (SCAMA) at least 48 hours prior to the date of operation on Tel: +252-61-8320222, +252-69-9668866 or Email: scama@scama.so. The Aerodrome services is provided in accordance with the provisions contained in Annex 14 — Aerodromes. Differences to these provisions are detailed in subsection GEN 1.7.

b) The request for clearance should include the following;

   i) Aircraft Type
   ii) Call sign
   iii) Aircraft Registration
   iv) Purpose of Flight
   v) Date of Operation
   vi) Route
   vii) Operator

c) Aircraft contravening these procedures risk impounding and or prosecution.

d) All flights operating to and from airfields in Mogadishu FIR where AFIS is not provided are required to transmit blind their position on 132.5 MHz before landing and taking off during taxiing out of the runway.

e) All operators intending to operate to any airfield in Somalia are advised to verify the status of the airfield to which they intend to operate from local authorities or Flight Information Services for Somalia Tel: 254-20-7622774 0r 7622785/6/9 Tel/Fax: 254-20-7622775.

1.1.2 Use of military air bases

TBN

1.1.3 Low visibility procedures (LVP) applicable to Cat II/III operations

Nil

1.1.4 Aerodrome operating minima

TBN

1.1.5 Other information

1.1.5.1 Traffic of persons and vehicles on aerodromes

a) Demarcation of zones

The grounds of each aerodrome are divided into two zones:

A public zone comprising the part of the aerodrome open to the public; and

A restricted zone comprising the rest of the aerodrome/heliport.

b) Movement of persons

Access to the restricted zone is authorized only under the conditions prescribed by the special rules governing the aerodrome/heliport. The movement of persons having access to the restricted zone of the aerodrome/ heliport is subject to the conditions prescribed by Somali Civil Aviation and Meteorological Authority and by the special rules laid down by the aerodrome administration.

c) *Movement of vehicles*

The movement of vehicles in the restricted zone is strictly limited to vehicles driven or used by persons carrying a traffic permit or an official card of admittance. Drivers of vehicles, of whatever type, operating within the confines of the aerodrome/heliport must respect the direction of the traffic, the traffic signs and the posted speed limits and generally, comply with the provisions of the Highway Code and with the instructions given by the authorities.

d) *Policing*

Care and protection of aircraft, vehicles, equipment and goods used at the aerodrome/heliport are not the responsibility of the State or any concessionaire; they cannot be held responsible for loss or damage which is not incurred through action by them or their agents.

e) *Use of the heliports*

Unless other permission has been granted by the Civil Aviation Administration, the heliports may be used only for flights in accordance with Visual Flight Rules (VFR).

f) ***Landing, parking and storage of aircraft on aerodromes / heliports under the control of the Civil Aviation Administration***

The conditions under which aircraft may land and be parked, housed or otherwise dealt with at any of the aerodromes/heliports under the control of the Civil
Aviation Administration are as follows:

i) The fees and charges for the landing, parking or housing of aircraft shall be those published from time to time by the Civil Aviation Administration (hereinafter referred to as "CAA") in the AIP or AIC.

ii) Neither the CAA nor any servant or agent of the government shall be liable for loss or damage to the aircraft, its parts or accessories or any property contained in the aircraft, howsoever such loss and damage may arise, occurring while the aircraft is on any aerodrome/heliport under the control of the CAA or is in the course of landing at or taking off from any such aerodrome/heliport.

g) ***Friction measuring device used and friction level below which the runway is declared slippery when it is wet***

Where only water is present on a runway and periodic measurements indicate that the runway will not become slippery when wet, no measuring will take place, and the runway will be reported as being "WET".

AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN

1.2.1 Rescue and firefighting services

a) At aerodromes approved for scheduled and/or nonscheduled traffic with aeroplane carrying passengers, Rescue and Fire Fighting Services are established in accordance with Annex 14 requirements.

b) Information about whether there is service and what the extent of that service is given on the relevant page for each aerodrome.

c) Scheduled or non-scheduled traffic with aeroplane carrying passengers is not allowed to use aerodromes without Rescue and Fire Fighting Services.

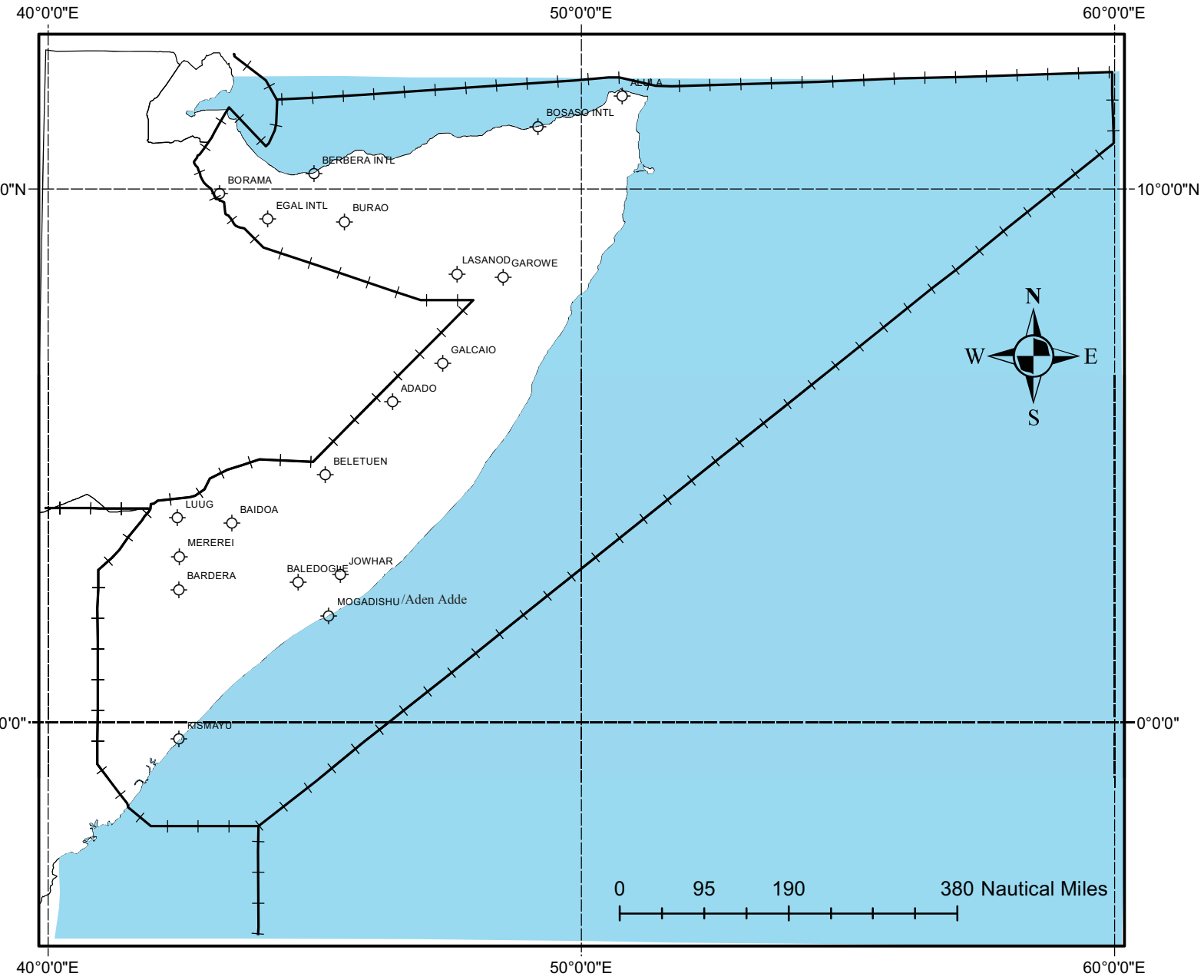
d) Temporary changes to Rescue and Fire Fighting Services will be published by NOTAM.

1.2.2. Snow plan

Not Applicable

AD 1.3 INDEX TO AERODROMES AND HELIPORTS

Aerodrome/heliport name Location indicator	*Type of traffic permitted to use the aerodrome/heliport*			*Reference to AD Section and remarks*
	International – National (INTL-NTL)	*IFR-VFR*	*S =Scheduled NS=Non scheduled P =Private*	
1	2	3	4	5
MOGADISHU/Aden Adde HCMM	INTL-NTL	IFR-VFR	S-NS-P	AD2 HCMM
HARGEISA/Egal HCMH*	INTL-NTL	VFR	NS-P	AD2 HCMH
BERBERA/Berbera HCMI*	INTL-NTL	VFR	NS-P	AD2 HCMI
BOSASO/Bosaso HCMF*	INTL-NTL	VFR	NS-P	AD2 HCMF
BURAO/Burao HCMV*	INTL-NTL	VFR	NS-P	AD2 HCMV
KISIMAYO/Kisimayo HCMK*	INTL-NTL	VFR	NS-P	AD2 HCMK
GAROWE/ Muklatagtag HCGR*	INTL-NTL	VFR	NS-P	AD2 HCGR
The location indicators marked with an asterisk (*) cannot be used in the address component of AFS message.				



Note:The AD Index chart does not consist all airports/airstrips avaialble in Somalia

AD 1.4 GROUPING OF AERODROMES/HELIPORTS

The criteria applied by Somali in grouping aerodromes/ heliports for the provision of information in this AIP is as follows:

Primary/Major International Aerodrome/Heliport

The aerodrome/heliport of entry and departure for international air traffic, where all formalities concerning customs, immigration, health, animal and plant quarantine and similar procedures are carried out and where air traffic services are available on a regular basis.

Secondary/Other International Aerodrome/Heliport

Another aerodrome/heliport available for the entry or departure of international air traffic, where the formalities concerning customs, immigration, health and similar procedures are made available prior approval by local State authorities only.

National Aerodrome/Heliport

An aerodrome/heliport available only for domestic air traffic

AD 1.5 STATUS OF CERTIFICATION OF AERODROMES

Aerodrome name Location indicator	*Date of certification*	*Validity of certification*	*Remark*
1	2	3	4
MOGADISHU/Aden Adde HCMM	NIL	—	
HARGEISA/Egal HCMH*	NIL	— *01 FEB 18*	
BERBERA/Berbera HCMI*	NIL	—	
BOSASO/Bosaso HCMF*	NIL	—	
BURAO/Burao HCMV*	NIL	—	
GAROWE/ Muklatagtag HCGR*	NIL	—	

The location indicators marked with an asterisk (*) cannot be used in the address component of AFS messages.

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AD 2. AERODROMES

HCMM AD 2.1 AERODROME LOCATION INDICATOR AND NAME

HCMM — ADEN ADDE/International

HCMM AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	*ARP coordinates and site at AD*	020050.25N 0451814.50E
2	*Directions and distance from (city)*	1ML west of city
3	*Elevation/Reference temperature*	28ft / 31.4degC.
4	*MAG VAR/Annual change*	1deg W (2015)
5	*AD Administration, address, telephone Telefax, telex, AFS*	Somalia Civil Aviation & Meteorology Authority (SCAMA) Adan Adde International Airport, Mogadishu Somalia. Tel: +252-61-8320222 Tel: +252-69-9668866 Email: scama@scama.so Web: www.scama.so
6	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
7	*Remarks*	Operators are required to obtain clearance from SCAMA to operate at Aden Adde Intl. Request for clearance shall be received least 48 hours prior to the date of operation The Aerodrome Currently Operated by Favori. Contact Details: Favori Limited Liability Company Favori Base Mogadishu – Somalia Tel: +252 617 165 456 (Cell) +90 282 726 46 00 (Office turkey) Email: info@favorillc.com

HCMM AD 2.3 OPERATIONAL HOURS

1	*AD Administration*	Sunday-Thursday 0500UTC-1400UTC. Fri-Sat + Holidays-Nil
2	*Customs and immigration*	0300-1500 UTC
3	*Health and sanitation*	0300-1500 UTC
4	*AIS Briefing Office*	0300-1500 UTC
5	*ATS Reporting Office (ARO)*	0300-1500 UTC
6	*MET Briefing Office*	0300-1500 UTC
7	*ATS*	0300-1900 UTC
8	*Fuelling*	0300-1500 UTC
9	*Handling*	0300-1500 UTC
10	*Security*	H24
11	*De-icing*	N/A
12	*Remarks*	Aircraft Operations after 1500UTC coordination with SCAMA.

HCMM AD 2.4 HANDLING SERVICES AND FACILITIES

1	*Cargo-handling facilities*	Available
2	*Fuel/oil types*	JET A1
3	*Fueling facilities/capacity*	TBN
4	*De-icing facilities*	N/A
5	*Hangar space for visiting aircraft*	NIL
6	*Repair facilities for visiting aircraft*	TBN
7	*Remarks*	Nil

HCMM AD 2.5 PASSENGER FACILITIES

1	*Hotels*	Near the AD and in the city.
2	*Restaurants*	At AD and in the city.
3	*Transportation*	Available
4	*Medical facilities*	Available
5	*Bank and Post Office*	Available
6	*Tourist Office*	Nil
7	*Remarks*	Nil

HCMM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	*AD category for fire fighting*	Firefighting services available. Category TBN
2	*Rescue equipment*	TBN
3	*Capability for removal of disabled aircraft*	TBN
4	*Remarks*	Nil

HCMM AD 2.7 SEASONAL AVAILABILITY — CLEARING

NIL

HCMM AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	*Apron surface and strength*	Surface: Asphalt
2	*Taxiway width, surface and strength*	Width : TBN
3	*Altimeter checkpoint location and*	TBN
4	*Remarks*	Nil

HCMM AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	*Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance*	Available
2	*RWY and TWY markings and LGT*	RWY Designation, THR, RWY center line, RWY edge, and TWYs Marked
3	*Stop bars*	TBN
4	*Remarks*	Nil

HCMM AD 2.10 AERODROME OBSTACLES

Note: *Area 2 and Area 3 Obstacle data Set Not Available*

ICAO Annex 14 Obstacle Limitation Surfaces Analysis - **Obstacles that penetrate the obstacle limitation surfaces**

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Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1000	020017.59N	0451727.81E	-26.82	-87.99	BUILDING	532568.07	221603.92	10.42	34.17	4.63	Approach 05	15/06/2013
1072	020014.85N	0451733.99E	-31.08	-101.96	FENCE	532559.02	221519.82	6.16	20.21	2.24	Approach 05	15/06/2013
1073	020014.86N	0451733.36E	-31.09	-102.01	FENCE	532539.40	221520.17	6.14	20.15	1.92	Approach 05	15/06/2013
1074	020014.88N	0451733.03E	-31.16	-102.24	FENCE	532529.11	221520.64	6.07	19.92	1.70	Approach 05	15/06/2013
1075	020014.88N	0451732.17E	-31.43	-103.12	FENCE	532502.70	221520.83	5.80	19.04	1.03	Approach 05	15/06/2013

Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1031	020254.21N	0452107.82E	92.25	302.65	MAST	539163.42	226414.00	129.48	424.82	13.58	Approach 23	15/06/2013
1092	020212.44N	0451953.09E	26.65	87.45	BUILDING	536855.07	225130.97	63.89	209.61	9.39	Approach 23	15/06/2013
1093	020218.08N	0452000.77E	43.73	143.47	MAST	537092.47	225304.33	80.97	265.63	20.60	Approach 23	15/06/2013
1094	020209.23N	0451951.27E	35.75	117.31	MOSQUE	536798.77	225032.42	72.99	239.47	20.62	Approach 23	15/06/2013
1095	020201.38N	0451944.44E	23.94	78.55	MAST	536587.99	224791.46	61.18	200.71	15.13	Approach 23	15/06/2013
1098	020127.35N	0451856.16E	-19.92	-65.37	LAMPOST	535096.93	223746.44	17.31	56.79	7.56	Approach 23	15/06/2013
1099	020128.99N	0451858.99E	-19.29	-63.29	LAMPOST	535184.34	223796.59	17.94	58.87	6.20	Approach 23	15/06/2013
1100	020201.29N	0451928.06E	35.56	116.68	MAST	536082.13	224788.51	72.80	238.85	34.57	Approach 23	15/06/2013
1101	020158.43N	0451928.24E	36.13	118.54	MAST	536087.52	224700.66	73.37	240.70	36.18	Approach 23	15/06/2013
1102	020148.26N	0451923.97E	17.12	56.18	MAST	535955.72	224388.46	54.36	178.35	23.19	Approach 23	15/06/2013
1103	020132.37N	0451907.36E	-8.51	-27.91	TREE	535442.67	223900.49	28.73	94.25	11.68	Approach 23	15/06/2013
1104	020131.92N	0451906.80E	-7.91	-25.94	TREE	535425.28	223886.58	29.33	96.22	12.73	Approach 23	15/06/2013
1105	020130.89N	0451905.92E	-12.39	-40.66	TREE	535398.36	223855.19	24.84	81.50	9.06	Approach 23	15/06/2013
1106	020128.67N	0451904.10E	-15.42	-50.59	TREE	535342.00	223786.88	21.81	71.57	7.77	Approach 23	15/06/2013
1107	020128.06N	0451903.22E	-16.33	-53.58	TREE	535314.85	223768.16	20.90	68.58	7.52	Approach 23	15/06/2013
1108	020128.44N	0451905.82E	-12.52	-41.08	TREE	535395.05	223779.99	24.72	81.09	9.94	Approach 23	15/06/2013
1109	020127.19N	0451902.44E	-17.87	-58.62	TREE	535290.75	223741.48	19.37	63.54	6.69	Approach 23	15/06/2013
1110	020126.70N	0451900.29E	-21.08	-69.16	TREE	535224.43	223726.47	16.15	53.00	4.69	Approach 23	15/06/2013
1111	020125.94N	0451859.92E	-20.04	-65.74	TREE	535212.97	223703.11	17.20	56.43	6.21	Approach 23	15/06/2013

Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1112	020124.97N	0451901.04E	-14.97	-49.13	TREE	535247.45	223673.23	22.26	73.03	11.12	Approach 23	15/06/2013
1113	020124.49N	0451859.94E	-10.06	-33.00	TREE	535213.55	223658.45	27.18	89.16	16.75	Approach 23	15/06/2013
1117	020126.19N	0451856.47E	-25.62	-84.07	FENCE	535106.47	223710.82	11.61	38.10	2.16	Approach 23	15/06/2013
1118	020126.53N	0451857.05E	-25.37	-83.23	FENCE	535124.28	223721.04	11.87	38.93	2.01	Approach 23	15/06/2013
1119	020126.42N	0451857.18E	-25.35	-83.15	GATE_POST	535128.16	223717.64	11.89	39.01	2.02	Approach 23	15/06/2013
1120	020126.31N	0451857.28E	-25.31	-83.03	GATE_POST	535131.35	223714.53	11.93	39.13	2.05	Approach 23	15/06/2013
1121	020126.07N	0451857.57E	-25.38	-83.27	FENCE	535140.43	223707.06	11.86	38.89	1.93	Approach 23	15/06/2013
1122	020125.87N	0451857.63E	-25.36	-83.19	FENCE	535142.34	223700.95	11.88	38.97	2.00	Approach 23	15/06/2013
1123	020125.66N	0451857.68E	-25.55	-83.81	FENCE	535143.67	223694.35	11.69	38.35	1.88	Approach 23	15/06/2013
1124	020125.42N	0451857.66E	-25.51	-83.68	FENCE	535143.28	223686.94	11.73	38.48	2.02	Approach 23	15/06/2013
1125	020125.21N	0451857.59E	-25.58	-83.94	FENCE	535141.10	223680.72	11.65	38.23	2.05	Approach 23	15/06/2013
1126	020125.04N	0451857.51E	-25.68	-84.27	FENCE	535138.37	223675.27	11.55	37.90	2.07	Approach 23	15/06/2013
1127	020124.67N	0451857.33E	-25.88	-84.90	FENCE	535132.98	223664.15	11.36	37.26	2.10	Approach 23	15/06/2013
1128	020124.21N	0451857.13E	-26.17	-85.87	FENCE	535126.91	223650.02	11.06	36.30	2.08	Approach 23	15/06/2013
1129	020123.85N	0451856.97E	-26.32	-86.36	FENCE	535121.74	223638.97	10.91	35.80	2.15	Approach 23	15/06/2013
1130	020123.43N	0451856.76E	-26.91	-88.28	FENCE	535115.26	223626.03	10.33	33.88	1.83	Approach 23	15/06/2013
1136	020123.22N	0451857.20E	-22.25	-73.01	LAMPOST	535129.08	223619.51	14.98	49.15	6.35	Approach 23	15/06/2013
1137	020124.12N	0451857.58E	-21.60	-70.86	LAMPOST	535140.61	223647.07	15.64	51.30	6.48	Approach 23	15/06/2013
1138	020124.42N	0451858.24E	-21.29	-69.84	LAMPOST	535160.97	223656.49	15.95	52.33	6.36	Approach 23	15/06/2013
1140	020126.21N	0451854.44E	-19.63	-64.39	TREE	535043.66	223711.38	17.61	57.77	9.12	Approach 23	15/06/2013

Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1070	020014.53N	0451735.32E	-31.94	-104.80	FENCE	532599.88	221510.09	5.29	17.37	1.47	Rwy Strip	15/06/2013
1071	020014.76N	0451734.39E	-31.29	-102.67	FENCE	532571.31	221517.24	5.94	19.49	2.12	Rwy Strip	15/06/2013
1076	020020.26N	0451735.94E	-29.40	-96.45	FENCE	532619.09	221686.03	7.84	25.71	3.75	Rwy Strip	15/06/2013
1077	020020.70N	0451736.46E	-29.70	-97.42	FENCE	532635.01	221699.59	7.54	24.74	3.40	Rwy Strip	15/06/2013
1078	020021.09N	0451736.90E	-29.89	-98.06	FENCE	532648.59	221711.55	7.35	24.10	3.16	Rwy Strip	15/06/2013
1079	020021.74N	0451737.64E	-30.44	-99.86	FENCE	532671.56	221731.30	6.80	22.30	2.52	Rwy Strip	15/06/2013

Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1080	020022.30N	0451738.30E	-30.44	-99.87	FENCE	532692.00	221748.56	6.80	22.30	2.44	Rwy Strip	15/06/2013
1081	020022.93N	0451739.04E	-30.33	-99.52	FENCE	532714.83	221768.03	6.90	22.64	2.46	Rwy Strip	15/06/2013
1082	020018.54N	0451733.94E	-30.86	-101.26	FENCE	532557.28	221633.08	6.37	20.91	2.53	Rwy Strip	15/06/2013
1083	020019.11N	0451734.60E	-30.51	-100.11	FENCE	532577.85	221650.68	6.72	22.06	2.80	Rwy Strip	15/06/2013
1084	020019.48N	0451735.06E	-30.57	-100.28	FENCE	532591.81	221662.00	6.67	21.88	2.70	Rwy Strip	15/06/2013
1087	020052.81N	0451813.38E	-24.64	-80.83	WINDSLEEVE(B&W)	533775.52	222685.51	12.60	41.33	7.04	Rwy Strip	15/06/2013
1088	020053.98N	0451813.51E	-24.73	-81.12	WINDSLEEVE(R&W)	533779.49	222721.57	12.51	41.04	6.96	Rwy Strip	15/06/2013
1115	020124.58N	0451853.12E	-25.32	-83.07	FENCE	535002.94	223661.25	11.91	39.09	3.67	Rwy Strip	15/06/2013
1116	020125.26N	0451854.73E	-25.96	-85.17	FENCE	535052.49	223682.24	11.28	36.99	2.86	Rwy Strip	15/06/2013
1131	020122.90N	0451856.52E	-27.12	-88.98	FENCE	535108.00	223609.75	10.12	33.19	1.71	Rwy Strip	15/06/2013
1132	020122.23N	0451856.28E	-27.23	-89.33	FENCE	535100.40	223589.20	10.01	32.83	1.67	Rwy Strip	15/06/2013
1133	020120.33N	0451856.56E	-23.77	-77.97	LAMPOST	535109.29	223530.87	13.47	44.19	5.23	Rwy Strip	15/06/2013
1134	020121.32N	0451856.66E	-23.34	-76.57	LAMPOST	535112.34	223561.12	13.90	45.59	5.58	Rwy Strip	15/06/2013
1135	020122.27N	0451856.88E	-22.82	-74.85	LAMPOST	535119.12	223590.45	14.42	47.31	6.03	Rwy Strip	15/06/2013

Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1031	020254.21N	0452107.82E	92.25	302.65	MAST	539163.42	226414.00	129.48	424.82	23.07	TOCS 05	15/06/2013
1092	020212.44N	0451953.09E	26.65	87.45	BUILDING	536855.07	225130.97	63.89	209.61	9.39	TOCS 05	15/06/2013
1093	020218.08N	0452000.77E	43.73	143.47	MAST	537092.47	225304.33	80.97	265.63	20.60	TOCS 05	15/06/2013
1094	020209.23N	0451951.27E	35.75	117.31	MOSQUE	536798.77	225032.42	72.99	239.47	20.62	TOCS 05	15/06/2013
1095	020201.38N	0451944.44E	23.94	78.55	MAST	536587.99	224791.46	61.18	200.71	15.13	TOCS 05	15/06/2013
1098	020127.35N	0451856.16E	-19.92	-65.37	LAMPOST	535096.93	223746.44	17.31	56.79	7.56	TOCS 05	15/06/2013
1099	020128.99N	0451858.99E	-19.29	-63.29	LAMPOST	535184.34	223796.59	17.94	58.87	6.20	TOCS 05	15/06/2013
1100	020201.29N	0451928.06E	35.56	116.68	MAST	536082.13	224788.51	72.80	238.85	34.57	TOCS 05	15/06/2013
1101	020158.43N	0451928.24E	36.13	118.54	MAST	536087.52	224700.66	73.37	240.70	36.18	TOCS 05	15/06/2013
1102	020148.26N	0451923.97E	17.12	56.18	MAST	535955.72	224388.46	54.36	178.35	23.19	TOCS 05	15/06/2013
1103	020132.37N	0451907.36E	-8.51	-27.91	TREE	535442.67	223900.49	28.73	94.25	11.68	TOCS 05	15/06/2013
1104	020131.92N	0451906.80E	-7.91	-25.94	TREE	535425.28	223886.58	29.33	96.22	12.73	TOCS 05	15/06/2013

Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1105	020130.89N	0451905.92E	-12.39	-40.66	TREE	535398.36	223855.19	24.84	81.50	9.06	TOCS 05	15/06/2013
1106	020128.67N	0451904.10E	-15.42	-50.59	TREE	535342.00	223786.88	21.81	71.57	7.77	TOCS 05	15/06/2013
1107	020128.06N	0451903.22E	-16.33	-53.58	TREE	535314.85	223768.16	20.90	68.58	7.52	TOCS 05	15/06/2013
1108	020128.44N	0451905.82E	-12.52	-41.08	TREE	535395.05	223779.99	24.72	81.09	9.94	TOCS 05	15/06/2013
1109	020127.19N	0451902.44E	-17.87	-58.62	TREE	535290.75	223741.48	19.37	63.54	6.69	TOCS 05	15/06/2013
1110	020126.70N	0451900.29E	-21.08	-69.16	TREE	535224.43	223726.47	16.15	53.00	4.69	TOCS 05	15/06/2013
1111	020125.94N	0451859.92E	-20.04	-65.74	TREE	535212.97	223703.11	17.20	56.43	6.21	TOCS 05	15/06/2013
1112	020124.97N	0451901.04E	-14.97	-49.13	TREE	535247.45	223673.23	22.26	73.03	11.12	TOCS 05	15/06/2013
1113	020124.49N	0451859.94E	-10.06	-33.00	TREE	535213.55	223658.45	27.18	89.16	16.75	TOCS 05	15/06/2013
1117	020126.19N	0451856.47E	-25.62	-84.07	FENCE	535106.47	223710.82	11.61	38.10	2.16	TOCS 05	15/06/2013
1118	020126.53N	0451857.05E	-25.37	-83.23	FENCE	535124.28	223721.04	11.87	38.93	2.01	TOCS 05	15/06/2013
1119	020126.42N	0451857.18E	-25.35	-83.15	GATE_POST	535128.16	223717.64	11.89	39.01	2.02	TOCS 05	15/06/2013
1120	020126.31N	0451857.28E	-25.31	-83.03	GATE_POST	535131.35	223714.53	11.93	39.13	2.05	TOCS 05	15/06/2013
1121	020126.07N	0451857.57E	-25.38	-83.27	FENCE	535140.43	223707.06	11.86	38.89	1.93	TOCS 05	15/06/2013
1122	020125.87N	0451857.63E	-25.36	-83.19	FENCE	535142.34	223700.95	11.88	38.97	2.00	TOCS 05	15/06/2013
1123	020125.66N	0451857.68E	-25.55	-83.81	FENCE	535143.67	223694.35	11.69	38.35	1.88	TOCS 05	15/06/2013
1124	020125.42N	0451857.66E	-25.51	-83.68	FENCE	535143.28	223686.94	11.73	38.48	2.02	TOCS 05	15/06/2013
1125	020125.21N	0451857.59E	-25.58	-83.94	FENCE	535141.10	223680.72	11.65	38.23	2.05	TOCS 05	15/06/2013
1126	020125.04N	0451857.51E	-25.68	-84.27	FENCE	535138.37	223675.27	11.55	37.90	2.07	TOCS 05	15/06/2013
1127	020124.67N	0451857.33E	-25.88	-84.90	FENCE	535132.98	223664.15	11.36	37.26	2.10	TOCS 05	15/06/2013
1128	020124.21N	0451857.13E	-26.17	-85.87	FENCE	535126.91	223650.02	11.06	36.30	2.08	TOCS 05	15/06/2013
1129	020123.85N	0451856.97E	-26.32	-86.36	FENCE	535121.74	223638.97	10.91	35.80	2.15	TOCS 05	15/06/2013
1130	020123.43N	0451856.76E	-26.91	-88.28	FENCE	535115.26	223626.03	10.33	33.88	1.83	TOCS 05	15/06/2013
1136	020123.22N	0451857.20E	-22.25	-73.01	LAMPOST	535129.08	223619.51	14.98	49.15	6.35	TOCS 05	15/06/2013
1137	020124.12N	0451857.58E	-21.60	-70.86	LAMPOST	535140.61	223647.07	15.64	51.30	6.48	TOCS 05	15/06/2013
1138	020124.42N	0451858.24E	-21.29	-69.84	LAMPOST	535160.97	223656.49	15.95	52.33	6.36	TOCS 05	15/06/2013
1140	020126.21N	0451854.44E	-19.63	-64.39	TREE	535043.66	223711.38	17.61	57.77	9.12	TOCS 05	15/06/2013

Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1072	020014.85N	0451733.99E	-31.08	-101.96	FENCE	532559.02	221519.82	6.16	20.21	2.24	TOCS 23	15/06/2013
1073	020014.86N	0451733.36E	-31.09	-102.01	FENCE	532539.40	221520.17	6.14	20.15	1.92	TOCS 23	15/06/2013
1074	020014.88N	0451733.03E	-31.16	-102.24	FENCE	532529.11	221520.64	6.07	19.92	1.70	TOCS 23	15/06/2013
1075	020014.88N	0451732.17E	-31.43	-103.12	FENCE	532502.70	221520.83	5.80	19.04	1.03	TOCS 23	15/06/2013

Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1006	020032.48N	0451743.41E	-21.03	-69.00	WATER_TOWER	532849.66	222061.11	16.21	53.17	4.87	Trans	15/06/2013
1007	020032.04N	0451745.06E	-17.31	-56.78	TREE	532900.64	222047.84	19.93	65.38	14.63	Trans	15/06/2013

Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1011	020046.51N	0451733.38E	33.37	109.49	MAST	532540.00	222491.98	70.61	231.65	21.78	Inner Hz	15/06/2013
1013	020046.11N	0451736.00E	19.61	64.34	MAST	532620.94	222479.56	56.85	186.51	8.02	Inner Hz	15/06/2013
1015	020100.78N	0451745.46E	20.64	67.71	MAST	532913.06	222930.20	57.87	189.88	9.05	Inner Hz	15/06/2013
1017	020100.93N	0451750.33E	21.18	69.50	MAST	533063.30	222934.85	58.42	191.66	9.59	Inner Hz	15/06/2013
1018	020102.66N	0451751.81E	22.46	73.68	MAST	533109.13	222987.99	59.69	195.84	10.87	Inner Hz	15/06/2013
1020	020103.00N	0451752.08E	13.28	43.56	MAST	533117.45	222998.41	50.51	165.72	1.68	Inner Hz	15/06/2013
1021	020106.79N	0451759.77E	18.51	60.74	MAST	533355.04	223114.71	55.75	182.91	6.92	Inner Hz	15/06/2013
1022	020112.02N	0451801.40E	32.76	107.48	MAST	533405.40	223275.20	69.99	229.64	21.17	Inner Hz	15/06/2013
1023	020108.24N	0451803.96E	24.79	81.33	MAST	533484.46	223159.17	62.02	203.49	13.20	Inner Hz	15/06/2013
1026	020057.08N	0451708.31E	34.76	114.05	MAST	531765.50	222816.31	72.00	236.21	23.17	Inner Hz	15/06/2013
1041	020117.46N	0451817.52E	39.63	130.01	MAST	533903.36	223442.51	76.86	252.18	28.04	Inner Hz	15/06/2013
1042	020120.50N	0451817.26E	20.98	68.83	BUILDING	533895.03	223535.63	58.21	190.99	9.39	Inner Hz	15/06/2013
1043	020124.08N	0451818.49E	16.83	55.23	MAST	533933.00	223645.56	54.07	177.39	5.24	Inner Hz	15/06/2013
1044	020129.52N	0451827.28E	33.77	110.81	BUILDING_U/C	534204.59	223812.72	71.01	232.97	22.18	Inner Hz	15/06/2013
1045	020130.50N	0451827.88E	33.71	110.60	BUILDING_U/C	534223.16	223842.88	70.95	232.77	22.12	Inner Hz	15/06/2013
1046	020158.81N	0451818.28E	65.82	215.94	MAST	533926.39	224712.08	103.05	338.10	54.23	Inner Hz	15/06/2013

Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1047	020133.17N	0451830.99E	30.37	99.63	MAST	534319.08	223925.02	67.60	221.79	18.78	Inner Hz	15/06/2013
1048	020155.48N	0451834.35E	58.19	190.90	MAST	534423.01	224609.92	95.42	313.06	46.60	Inner Hz	15/06/2013
1049	020134.71N	0451838.02E	30.15	98.92	MAST	534536.47	223972.31	67.39	221.08	18.56	Inner Hz	15/06/2013
1050	020137.24N	0451838.51E	16.59	54.43	BUILDING	534551.43	224049.92	53.82	176.59	5.00	Inner Hz	15/06/2013
1051	020137.27N	0451839.94E	17.70	58.08	BUILDING	534595.75	224050.83	54.94	180.25	6.11	Inner Hz	15/06/2013
1052	020137.48N	0451841.37E	16.44	53.93	BUILDING	534639.70	224057.39	53.67	176.09	4.85	Inner Hz	15/06/2013
1064	020011.94N	0451633.90E	26.11	85.66	MAST	530702.70	221430.33	63.35	207.82	14.52	Inner Hz	15/06/2013
1065	020041.15N	0451648.35E	40.60	133.21	MAST	531148.81	222327.21	77.84	255.37	29.01	Inner Hz	15/06/2013
1067	020042.88N	0451726.70E	36.61	120.13	MAST	532333.49	222380.42	73.85	242.29	25.02	Inner Hz	15/06/2013
1085	020019.12N	0451634.85E	18.49	60.68	WATER_TOWER	530731.91	221650.57	55.73	182.84	6.90	Inner Hz	15/06/2013
1086	020020.38N	0451635.45E	19.41	63.68	BUILDING	530750.59	221689.31	56.64	185.84	7.82	Inner Hz	15/06/2013
1092	020212.44N	0451953.09E	26.65	87.45	BUILDING	536855.07	225130.97	63.89	209.61	15.06	Inner Hz	15/06/2013
1093	020218.08N	0452000.77E	43.73	143.47	MAST	537092.47	225304.33	80.97	265.63	32.14	Inner Hz	15/06/2013
1094	020209.23N	0451951.27E	35.75	117.31	MOSQUE	536798.77	225032.42	72.99	239.47	24.16	Inner Hz	15/06/2013
1095	020201.38N	0451944.44E	23.94	78.55	MAST	536587.99	224791.46	61.18	200.71	12.35	Inner Hz	15/06/2013
1097	020144.34N	0451856.75E	39.16	128.46	MAST	535114.92	224267.92	76.39	250.63	27.56	Inner Hz	15/06/2013
1100	020201.29N	0451928.06E	35.56	116.68	MAST	536082.13	224788.51	72.80	238.85	23.97	Inner Hz	15/06/2013
1101	020158.43N	0451928.24E	36.13	118.54	MAST	536087.52	224700.66	73.37	240.70	24.54	Inner Hz	15/06/2013
1102	020148.26N	0451923.97E	17.12	56.18	MAST	535955.72	224388.46	54.36	178.35	5.53	Inner Hz	15/06/2013
1139	020144.73N	0451847.72E	42.03	137.90	MAST	534836.08	224279.90	79.27	260.07	30.44	Inner Hz	15/06/2013
1149	020126.17N	0451709.05E	70.99	232.90	MAST	531788.22	223709.48	108.22	355.06	59.40	Inner Hz	15/06/2013
1150	020103.23N	0451753.03E	38.78	127.22	MAST	533146.72	223005.36	76.01	249.39	27.19	Inner Hz	15/06/2013
1151	020119.97N	0451653.04E	69.58	228.29	MAST	531293.59	223519.02	106.82	350.45	57.99	Inner Hz	15/06/2013

Obs Id	Latitude	Longitude	WGS-84 Ht(m)	WGS-84 Ht(ft)	Description	UTM38 Easting	UTM38 Northing	EGM08 Ht(m)	EGM08 Ht(ft)	Pen (m)	Surface Name	Date
1031	020254.21N	0452107.82E	92.25	302.65	MAST	539163.42	226414.00	129.48	424.82	34.52	Conical	15/06/2013

HCMM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	*Associated MET Office*	Mogadishu
2	*Hours of service MET Office outside hours*	0300UTC - 1400UTC
3	*Office responsible for TAF preparation Periods of validity*	Nil
4	*Trend forecast Interval of issuance*	Nil
5	*Briefing/consultation provided*	Nil
6	*Flight documentation Language(s) used*	Nil
7	*Charts and other information available for briefing or consultation*	Observation Reports-Metar, Speci and Synop.
8	*Supplementary equipment available for providing information*	Weather Monitor Vantage pr II
9	*ATS units provided with information*	TWR, FIC
10	*Additional information (limitation of service, etc.)*	Nil

HCMM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designation RWY NR	*TRUE and MAG BRG*	*Dimensions of RWY (M)*	*Strength(PCN) And surface of RWY and SWY*	*THR coordinates*	*THR elevation Highest elevation of TDZ of precision app RWY*
1	*2*	*3*	*4*	*5*	*6*
05	050° T	3184m x 45m	Asphalt	020017.15N 0451734.83E	Elev: 4m/13ft Gund:-37m
23	230° T	3184m x 45m	Asphalt	020123.36N 0451854.18E	Elev:8m/ 28 FT Gund:-37m
Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY dimensions (M)*	*Strip dimensions (M)*	*OFZ*	*Remarks*
7	*8*	*9*	*10*	*11*	*12*
TBN	60 x 45	60 x 45	300m x 3304m	TBN	

HCMM AD 2.13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
05	3184	3184	3184	3184	Nil
23	3184	3184	3184	3184	Nil

HCMM AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	*APCH LGT type LEN INTST*	*THR LGT colour WBAR*	*VASIS (MEHT) PAPI*	*TDZ, LGT LEN*	*RWY Centre Line LGT Length, spacing, colour, INTST*	*RWY edge LGT LEN, spacing colour INTST*	*RWY End LGT colour WBAR*	*SWY LGT LEN (M) colour*	*Rmks*
1	2	3	4	5	6	7	8	9	10
05	Nil	Nil -	PAPI Left	Nil	Nil	3184,White/Yellow, LIL	Red -	Nil	Nil
23	Nil	Nil -	Nil	Nil	Nil	3184,White/Yellow, LIL	Red -	Nil	Nil

HCMM AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	*ABN/IBN location, characteristics and hours of operation*	At the top of control Tower building H24
2	*LDI location and LGT* *Anemometer location and LGT*	TBN
3	*TWY edge and centre line lighting*	TWY edge: Blue Centre line: Nil
4	*Secondary power supply/switch-over time*	Secondary power supply to all lighting at AD. Switch-over time: 1 Sec
5	*Remarks*	Nil

HCMM AD 2.16 HELICOPTER LANDING AREA-

Not Designated

HCMM AD 2.17 ATS AIRSPACE

1	*Designation and lateral limits*	MOGADISHU CTR A circle of 15NM centered on PSN 020050.25N0451814.50E(ARP)
2	*Vertical limits*	SFC – 3000 FT AMSL
3	*Airspace classification*	Airspace Class D
4	*ATS unit call Sign*	Mogadishu TWR/ ENGLISH
5	*Transition altitude*	3000 FT AMSL
6	*Remarks*	

HCMM AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	2	3	4	5
TWR	Mogadishu TWR	118.1 MHZ	DAILY (0315-1500Z)	TWR and APP Combined
APP	Mogadishu APP	119.7 MHZ	DAILY (0315-1500Z)	

HCMM AD 2.19 RADIO NAVIGATION AND LANDING AIDS-NIL

HCMM AD 2.20 LOCAL TRAFFIC REGULATION

1. Airport Regulations

a) During the hours of service of Aerodrome Control, the movement of aircraft, vehicles and persons on the manoeuvring area of the aerodrome is subject to Aerodrome Control clearance.

b) Notwithstanding any aerodrome control clearance given, it shall be the duty of the pilot in command of an aircraft to take all possible measures to ensure that his aircraft does not collide with any other aircraft, vehicle or person.

c) All communication with aircraft shall be on the aerodrome frequency 118.1 MHz.

2. **Taxiing to and from Stands**

Aircraft to contact TWR on frequency 118.1MHZ

HCMM AD 2.23 ADDITIONAL INFORMATION

Operators should exercise extreme caution and fully assess the potential for risks to flight safety and security when planning or conducting operations into Mogadishu airport due to possible occurrence of armed conflict and the lack of adequate aeronautical data and Aeronautical information.

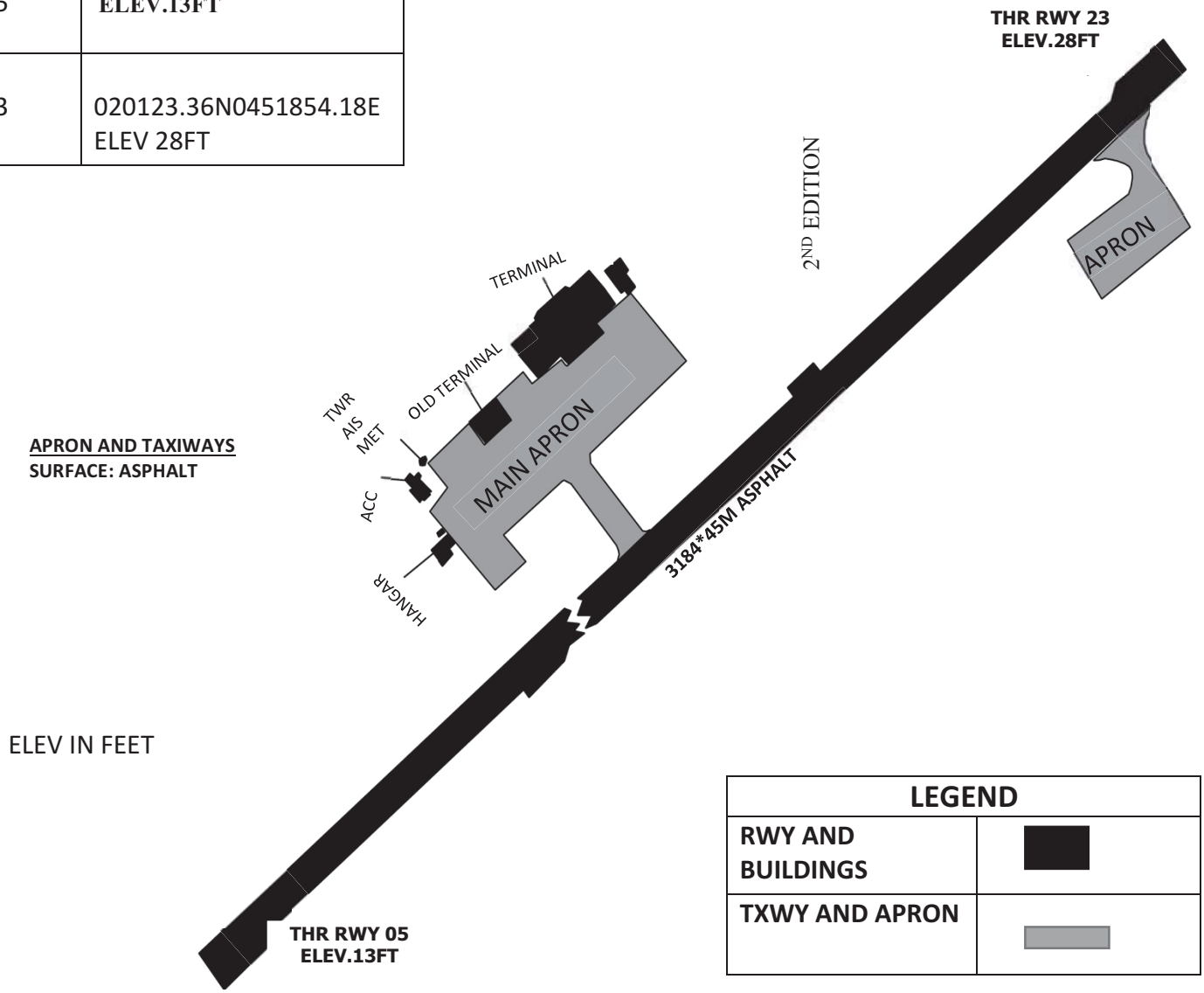
HCMM AD 2.24 CHARTS RELATED TO THE AERODROME

Page

AERODROME CHART	ARP 020050.25N 0451814.50E	AD ELEV 28FT	TWR 118.1MHZ	MOGADISHU Aden Adde Intl.

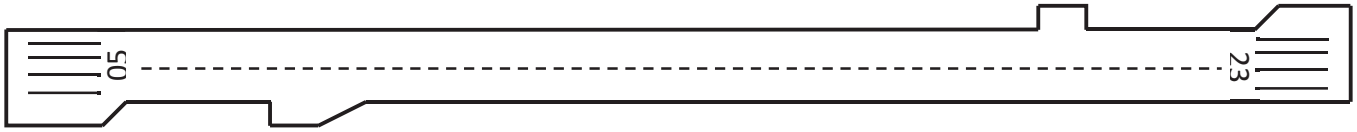
RWY	THR COORDINATES/ELEV
05	020017.15N 0451734.83E ELEV.13FT
23	020123.36N0451854.18E ELEV 28FT

NOT TO SCALE



LEGEND	
RWY AND BUILDINGS	
TXWY AND APRON	

MARKING AIDS RWY 05/26



AERODROME PARKING CHART – ICAO

TO BE DEVELOPED

STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

AD ELEV 28 FT
Trans Alt 3000
Trans Level FL40

INF/TWR 118.100

MOGADISHU, SOMALIA
Aden Adde Intl
SID RNAV (GNSS) RWY 23

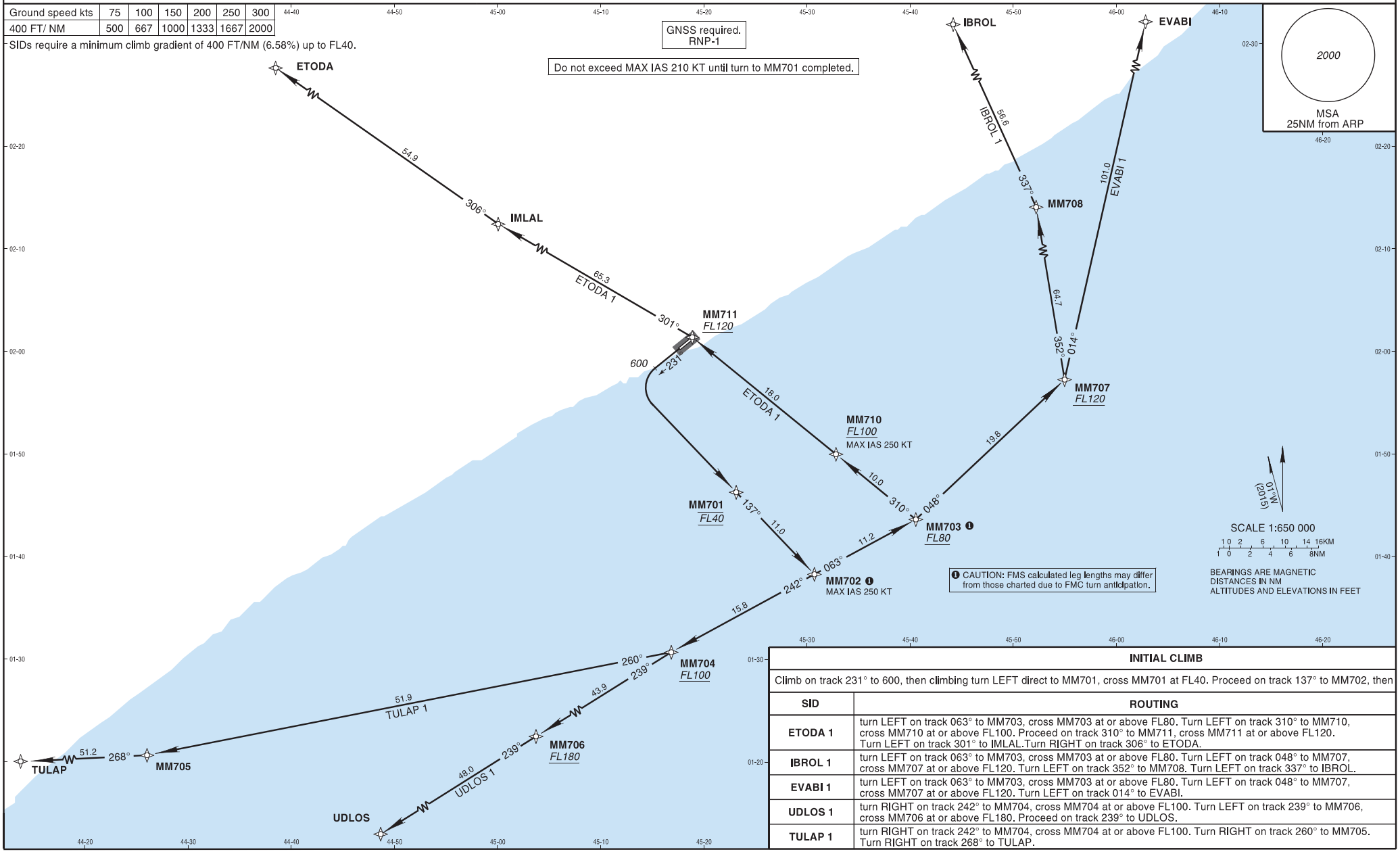
ETODA ONE, IBROL ONE, EVABI ONE, UDLOS ONE, TULAP ONE RNAV (GNSS) DEPARTURES

Ground speed kts	75	100	150	200	250	300
400 FT/ NM	500	667	1000	1333	1667	2000

SIDs require a minimum climb gradient of 400 FT/NM (6.58%) up to FL40.

GNSS required.
RNP-1

Do not exceed MAX IAS 210 KT until turn to MM701 completed.



INITIAL CLIMB

Climb on track 231° to 600, then climbing turn LEFT direct to MM701, cross MM701 at FL40. Proceed on track 137° to MM702, then

SID	ROUTING
ETODA 1	turn LEFT on track 063° to MM703, cross MM703 at or above FL80. Turn LEFT on track 310° to MM710, cross MM710 at or above FL100. Proceed on track 310° to MM711, cross MM711 at or above FL120. Turn LEFT on track 301° to IMLAL.Turn RIGHT on track 306° to ETODA.
IBROL 1	turn LEFT on track 063° to MM703, cross MM703 at or above FL80. Turn LEFT on track 048° to MM707, cross MM707 at or above FL120. Turn LEFT on track 352° to MM708. Turn LEFT on track 337° to IBROL.
EVABI 1	turn LEFT on track 063° to MM703, cross MM703 at or above FL80. Turn LEFT on track 048° to MM707, cross MM707 at or above FL120. Turn LEFT on track 014° to EVABI.
UDLOS 1	turn RIGHT on track 242° to MM704, cross MM704 at or above FL100. Turn LEFT on track 239° to MM706, cross MM706 at or above FL180. Proceed on track 239° to UDLOS.
TULAP 1	turn RIGHT on track 242° to MM704, cross MM704 at or above FL100. Turn RIGHT on track 260° to MM705. Turn RIGHT on track 268° to TULAP.

Route Description: RNAV (GNSS) DEPARTURE RWY 23

Path descriptor	Waypoint identifier	Flyover	Course Magnetic	Turn direction	Altitude	Speed limit	Magnetic variation	Distance	Navigation performance
IBROL 1									
CA			231.33°		+600		1°W		RNP 1
DF	MM701	N		left	@FL40		1°W		RNP 1
TF	MM702	N	137.40°			250 kts	1°W	11.00	RNP 1
TF	MM703	N	062.55°	left	+FL80		1°W	11.21	RNP 1
TF	MM707	N	047.81°	left	+FL120		1°W	19.80	RNP 1
TF	MM708	N	351.65°	left			1°W	64.73	RNP 1
TF	IBROL	N	336.56°	left			1°W	56.57	RNP 1
EVABI 1									
CA			231.33°		+600		1°W		RNP 1
DF	MM701	N		left	@FL40		1°W		RNP 1
TF	MM702	N	137.40°			250 kts	1°W	11.00	RNP 1
TF	MM703	N	062.55°	left	+FL80		1°W	11.21	RNP 1
TF	MM707	N	047.81°	left	+FL120		1°W	19.80	RNP 1
TF	EVABI	N	013.74°				1°W	101.00	RNP 1
UDLOS 1									
CA			231.33°		+600		1°W		RNP 1
DF	MM701	N		left	@FL40		1°W		RNP 1
TF	MM702	N	137.40°			250 kts	1°W	11.00	RNP 1
TF	MM704	N	242.43°	right	+FL100		1°W	15.82	RNP 1
TF	MM706	N	239.08°	left	+FL180		1°W	43.93	RNP 1
TF	UDLOS	N	238.82°				1°W	48.01	RNP 1
TULAP 1									
CA			231.33°		+600		1°W		RNP 1
DF	MM701	N		left	@FL40		1°W		RNP 1
TF	MM702	N	137.40°			250 kts	1°W	11.00	RNP 1
TF	MM704	N	242.43°	right	+FL100		1°W	15.82	RNP 1
TF	MM705	N	259.90°	right			1°W	51.87	RNP 1
TF	TULAP	N	268.09°	right			1°W	51.17	RNP 1
ETODA 1									
CA			231.33°		+600		1°W		RNP 1
DF	MM701	N		left	@FL40		1°W		RNP 1
TF	MM702	N	137.40°			250 kts	1°W	11.00	RNP 1
TF	MM703	N	062.55°	left	+FL80		1°W	11.21	RNP 1
TF	MM710	N	310.15°	left	+FL100	250 kts	1°W	10.00	RNP 1
TF	MM711	N	310.20°		+FL120		1°W	17.97	RNP 1
TF	IMLAL	N	301.26°				1°W	65.29	RNP 1
TF	ETODA	N	306.06°	right			1°W	54.90	RNP 1

Aeronautical Data Calculation: RNAV (GNSS) DEPARTURE RWY 23

Waypoint / Fix	Latitude	Longitude	Latitude (MIN)	Longitude (MIN)	Notes
RW05	N02°00'18.0000''	E045°17'35.0000''	N02°00.300'	E045°17.583'	
RW23	N02°01'23.0000''	E045°18'53.0000''	N02°01.383'	E045°18.883'	
MM701	N01°46'16.1697''	E045°23'08.5696''	N01°46.269'	E045°23.143'	
MM702	N01°38'15.8766''	E045°30'43.1183''	N01°38.265'	E045°30.719'	
MM703	N01°43'37.8131''	E045°40'33.6096''	N01°43.630'	E045°40.560'	
MM710	N01°49'58.4715''	E045°32'48.9077''	N01°49.975'	E045°32.815'	
MM711	N02°01'23.0000''	E045°18'53.0000''	N02°01.383'	E045°18.883'	
IMLAL	N02°34'26.1600''	E044°22'33.4400''	N02°34.436'	E044°22.557'	
ETODA	N03°06'06.7800''	E043°37'37.7600''	N03°06.113'	E043°37.629'	
MM707	N01°57'14.8526''	E045°54'58.6837''	N01°57.248'	E045°54.978'	
MM708	N03°01'25.8184''	E045°44'28.2372''	N03°01.430'	E045°44.471'	
IBROL	N03°53'11.0700''	E045°21'03.3000''	N03°53.185'	E045°21.055'	
EVABI	N03°36'16.5400''	E046°17'15.7800''	N03°36.276'	E046°17.263'	
MM704	N01°30'39.7037''	E045°16'50.7042''	N01°30.662'	E045°16.845'	
MM706	N01°07'18.9533''	E044°39'37.1565''	N01°07.316'	E044°39.619'	
UDLOS	N00°41'36.9600''	E043°59'03.0000''	N00°41.616'	E043°59.050'	
MM705	N01°20'36.9863''	E044°26'01.4088''	N01°20.616'	E044°26.023'	
TULAP	N01°18'00.0000''	E043°35'00.0000''	N01°18.000'	E043°35.000'	

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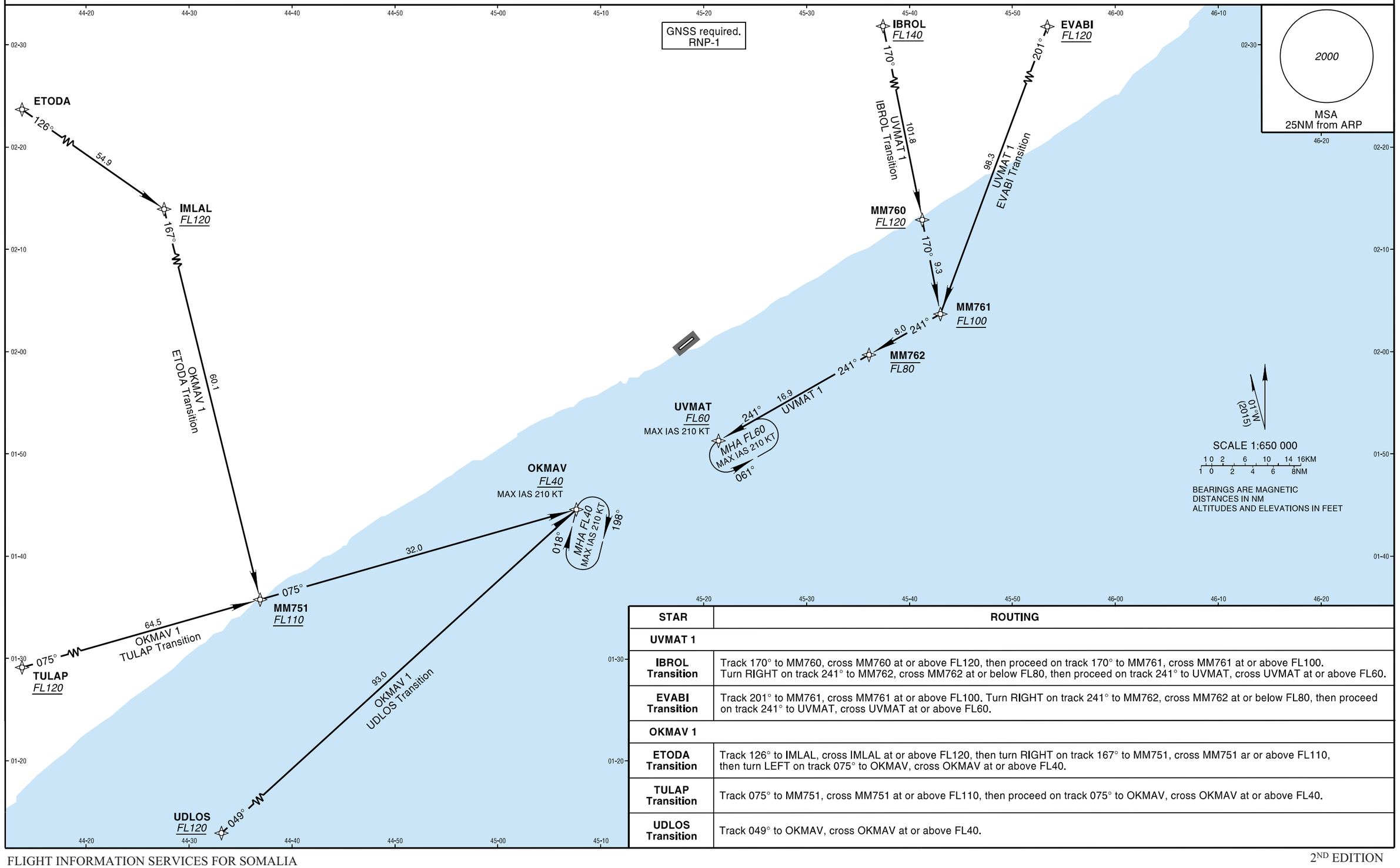
STANDARD ARRIVAL
CHART-INSTRUMENT
(STAR) - ICAO

AD ELEV 28 FT
Trans Alt *3000*
Trans Level *FL40*

INF	118.100
APP	120.900
TWR	118.100

MOGADISHU, SOMALIA
Aden Adde Intl
STAR RNAV (GNSS) RWY 05

UVMAT ONE, OKMAV ONE RNAV (GNSS) ARRIVALS



STAR	ROUTING
UVMAT 1	
IBROL Transition	Track 170° to MM760, cross MM760 at or above FL120, then proceed on track 170° to MM761, cross MM761 at or above FL100. Turn RIGHT on track 241° to MM762, cross MM762 at or below FL80, then proceed on track 241° to UVMAT, cross UVMAT at or above FL60.
EVABI Transition	Track 201° to MM761, cross MM761 at or above FL100. Turn RIGHT on track 241° to MM762, cross MM762 at or below FL80, then proceed on track 241° to UVMAT, cross UVMAT at or above FL60.
OKMAV 1	
ETODA Transition	Track 126° to IMLAL, cross IMLAL at or above FL120, then turn RIGHT on track 167° to MM751, cross MM751 ar or above FL110, then turn LEFT on track 075° to OKMAV, cross OKMAV at or above FL40.
TULAP Transition	Track 075° to MM751, cross MM751 at or above FL110, then proceed on track 075° to OKMAV, cross OKMAV at or above FL40.
UDLOS Transition	Track 049° to OKMAV, cross OKMAV at or above FL40.

Holding RNAV (GNSS) ARRIVAL RWY 05

Path descriptor	Fix identifier	Inbound course Magnetic	Leg Distance	Turn direction	Minimum altitude	Maximum altitude	Speed	Mag Var	Navigation specification
Hold	UVMAT	240.90	1 MIN	L	FL60		210 kts	1°W	RNP APCH
Hold	OKMAV	018.46	1 MIN	R	FL40		210 kts	1°W	RNP APCH

Route Description: RNAV (GNSS) ARRIVAL RWY 05

Path descriptor	Waypoint identifier	Flyover	Course Magnetic	Turn direction	Altitude	Speed limit	Magnetic variation	Distance	Navigation performance
UVMAT 1									
IBROL Transition									
IF	IBROL				+FL140		1°W		RNP 1
TF	MM760	N	169.55°		+FL120		1°W	101.82	RNP 1
TF	MM761	N	170.11°		+FL100		1°W	9.33	RNP 1
EVABI Transition									
IF	EVABI				+FL120		1°W		RNP 1
TF	MM761	N	201.42°		+FL100		1°W	98.31	RNP 1
Common Route									
TF	MM761	N			+FL100		1°W		RNP 1
TF	MM762	N	241.26°	right	-FL80		1°W	8.00	RNP 1
TF	UVMAT	N	241.26°		+FL60	210 kts	1°W	16.86	RNP 1
OKMAV 1									
UDLOS Transition									
IF	UDLOS				+FL120		1°W		RNP 1
TF	OKMAV	N	048.62°		+FL40	210 kts	1°W	92.97	RNP 1
TULAP Transition									
IF	TULAP				+FL120		1°W		RNP 1
TF	MM751	N	075.07°		+FL110		1°W	64.46	RNP 1
TF	OKMAV	N	075.10°		+FL40	210 kts	1°W	32.00	RNP 1
ETODA Transition									
IF	ETODA						1°W		RNP 1
TF	IMLAL	N	126.02°		+FL120		1°W	54.91	RNP 1
TF	MM751	N	167.18°		+FL110		1°W	60.12	RNP 1
TF	OKMAV	N	075.10°	right	+FL40	210 kts	1°W	32.00	RNP 1

Aeronautical Data Calculation: RNAV (GNSS) ARRIVAL RWY 05

Waypoint / Fix	Latitude	Longitude	Latitude (MIN)	Longitude (MIN)	Notes
IBROL	N03°53'11.0700''	E045°21'03.3000''	N03°53.185'	E045°21.055'	
MM760	N02°12'53.5048''	E045°41'14.3167''	N02°12.892'	E045°41.239'	
EVABI	N03°36'16.5400''	E046°17'15.7800''	N03°36.276'	E046°17.263'	
MM761	N02°03'41.1207''	E045°42'59.9155''	N02°03.685'	E045°42.999'	
MM762	N01°59'41.8377''	E045°36'03.6262''	N01°59.697'	E045°36.060'	
UVMAT	N01°51'17.4542''	E045°21'26.4070''	N01°51.291'	E045°21.440'	
UDLOS	N00°41'36.9600''	E043°59'03.0000''	N00°41.616'	E043°59.050'	
TULAP	N01°18'00.0000''	E043°35'00.0000''	N01°18.000'	E043°35.000'	
ETODA	N03°06'06.7800''	E043°37'37.7600''	N03°06.113'	E043°37.629'	
IMLAL	N02°34'26.1600''	E044°22'33.4400''	N02°34.436'	E044°22.557'	
MM751	N01°35'45.8306''	E044°36'53.9083''	N01°35.764'	E044°36.898'	
OKMAV	N01°44'34.2597''	E045°07'37.9669''	N01°44.571'	E045°07.633'	

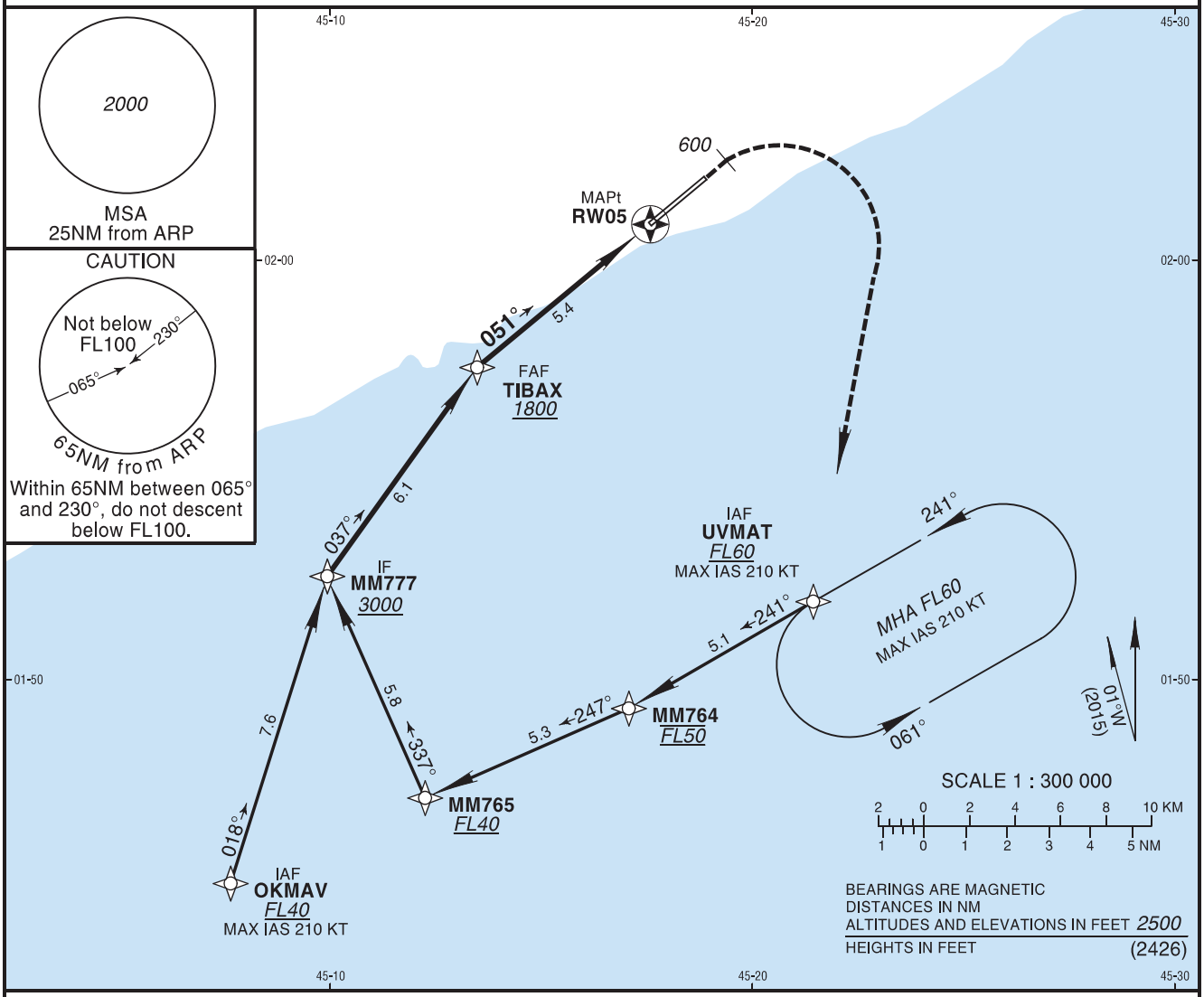
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 28 FT

HEIGHTS RELATED TO THR RWY 05 ELEV 13 FT

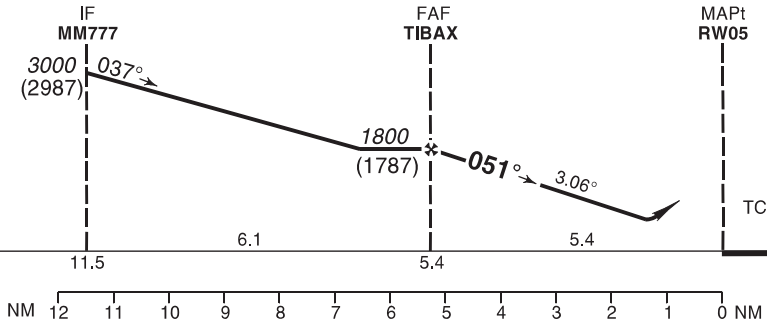
INFO	118.100
APP	120.900
TWR	118.100

MOGADISHU, SOMALIA
Aden Adde Intl
RNAV (GNSS) Y RWY 05



Trans Altitude 3000
Trans Level FL40

MISSED APPROACH:
Climb to 600 then climbing turn RIGHT to FL60 direct to UVMAT. (MAX IAS 210 KT)



STRAIGHT-IN APPROACH		A	B	C	D
LNAV	OCA(H)	530 (517)			
	VIS w/o ALS	NIL			
CIRCLING (HAA)		A	B	C	D
	OCA(H)	NA			
	VIS				

ADVISORY INFORMATION ONLY						
NM to RW05	5	4	3	2		
ALT (HGT)						
GS kt	70	90	100	120	140	160

NOTES:
1. GNSS required
2. MISSED APPROACH requires 360 FT/NM climb gradient to 6000.

Holding RNAV (GNSS) Y RWY 05

Path descriptor	Fix identifier	Inbound course Magnetic	Leg Distance	Turn direction	Minimum altitude	Maximum altitude	Speed	Mag Var	Navigation specification
Hold	UVMAT	240.90	1 MIN	L	FL60		210 kts	1°W	RNP APCH

Route Description: RNAV (GNSS) Y APPROACH RWY 05

Path descriptor	Waypoint identifier	Flyover	Course Magnetic	Turn direction	Altitude	Speed limit	Magnetic variation	Distance	Navigation performance
UVMAT TRANSITION									
IF	UVMAT				+FL60	210 kts	1°W		
TF	MM764	N	240.90°		@FL50		1°W	5.06	RNP APCH
TF	MM765	N	247.29°	right	+FL40		1°W	5.28	RNP APCH
TF	MM777	N	337.17°	right	+3000		1°W	5.75	RNP APCH
OKMAV TRANSITION									
IF	OKMAV				+FL40	210 kts	1°W		
TF	MM777	N	018.46°		+3000		1°W	7.64	RNP APCH
FINAL APPROACH									
IF	MM777				+3000		1°W		
TF	TIBAX	N	036.73°	right	+1800		1°W	6.10	RNP APCH
TF	RW05*	Y	051.33°	right	@63		1°W	5.35	RNP APCH
MISSED APPROACH									
	RW05	Y					1°W		
CA			051.37°		+600		1°W		RNP APCH
DF	UVMAT	Y		right	+FL60	210 kts	1°W		RNP APCH

*VPA/TCH 3.06/50

Aeronautical Data Calculation: RNAV (GNSS) Y APPROACH RWY 05

Waypoint / Fix	Latitude	Longitude	Latitude (MIN)	Longitude (MIN)	Notes
OKMAV (IAF)	N01°44'34.2597''	E045°07'37.9669''	N01°44.571'	E045°07.633'	
UVMAT (IAF)	N01°51'17.4542''	E045°21'26.4070''	N01°51.291'	E045°21.440'	
MM764	N01°48'44.5582''	E045°17'04.2486''	N01°48.743'	E045°17.071'	
MM765	N01°46'36.5293''	E045°12'14.5736''	N01°46.609'	E045°12.243'	
MM777 (IF)	N01°51'53.7312''	E045°09'55.3449''	N01°51.896'	E045°09.922'	
TIBAX (FAF)	N01°56'51.3217''	E045°13'28.1433''	N01°56.855'	E045°13.469'	
RW05 (MAPt)	N02°00'17.1500''	E045°17'34.8300''	N02°00.286'	E045°17.581'	

Note: Procedure requires tailored runway coordinates
RWY05: N02°00'17.15" E045°17'34.83"
RWY23: N02°01'23.36" E045°18'54.18"

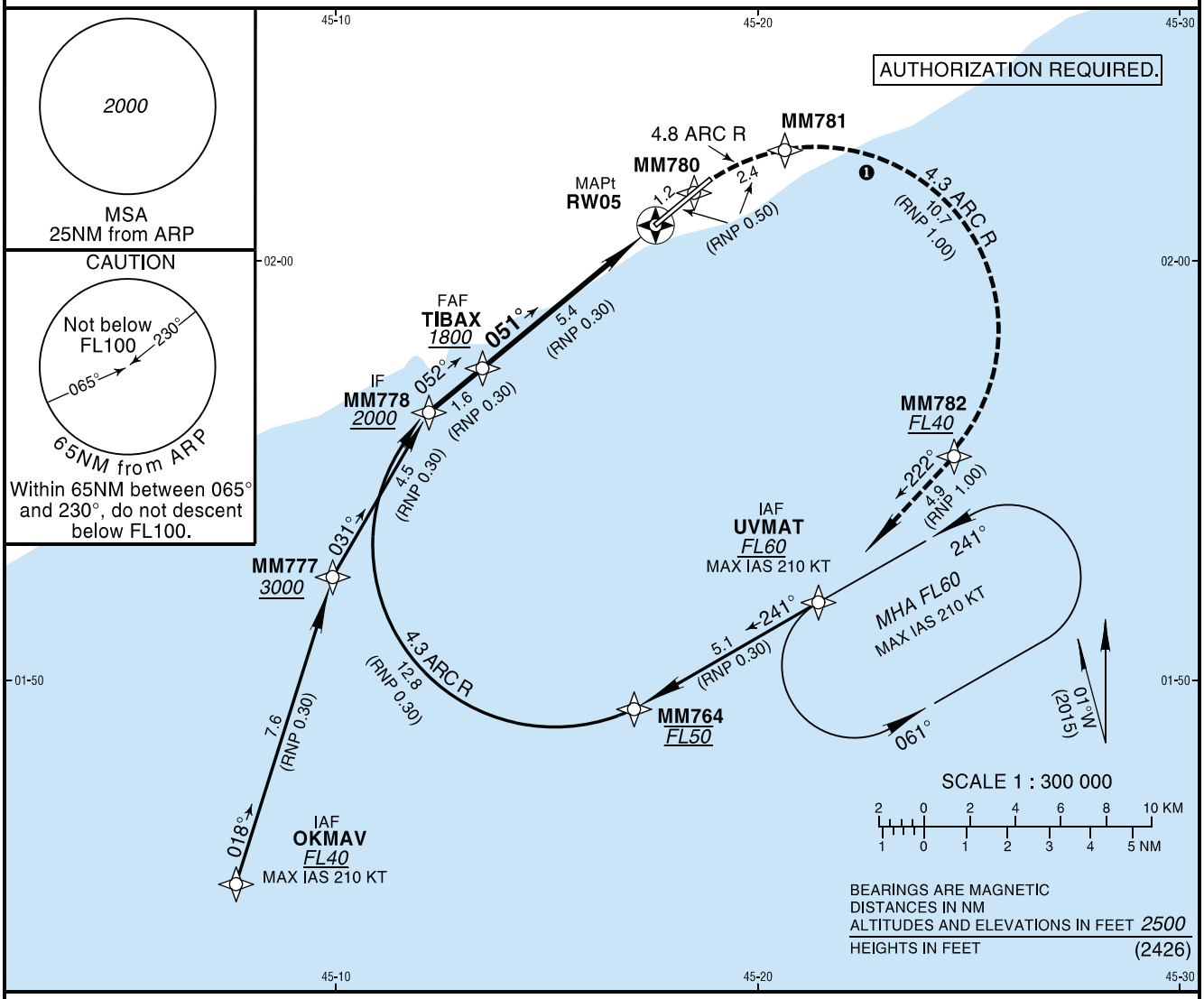
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 28 FT

HEIGHTS RELATED TO THR RWY 05 ELEV 13 FT

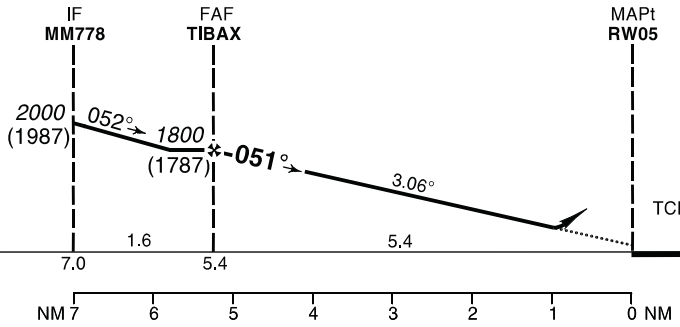
INFO	118.100
APP	120.900
TWR	118.100

MOGADISHU, SOMALIA
Aden Adde Intl
RNAV (RNP) Z RWY 05



Trans Altitude *3000*
Trans Level *FL40*

MISSED APPROACH:
❶ Climb to *FL60* on RNAV RNP missed approach route to UVMAT. (MAX IAS 210 KT)



STRAIGHT-IN APPROACH		A	B	C	D
RNP 0.30	DA(H)	*475* (462)			
Missed app 5.0% until *FL60*.	VIS w/o ALS	NIL			
CIRCLING (HAA)		A	B	C	D
	OCA(H)	NA			
	VIS				

ADVISORY INFORMATION ONLY						
NM to RW05	5	4	3	2		
ALT (HGT)						
GS kt	70	90	100	120	140	160

NOTES:
1. Dual GNSS required.
2. RF required.
3. For uncompensated Baro-VNAV Systems, procedure not authorized below 0°C (32°F) or above 43°C (109°F).

❶ Missed approach transition to missed approach RNP lateral guidance must not be initiated prior to the along track position of DA(H).

Holding RNAV (RNP) Z RWY 05

Path descriptor	Fix identifier	Inbound course Magnetic	Leg Distance	Turn direction	Minimum altitude	Maximum altitude	Speed	Mag Var	Navigation specification
Hold	UVMAT	240.90	1 MIN	L	FL60		210 kts	1°W	RNP APCH

Route Description: RNAV (RNP) Z APPROACH RWY 05

Path descriptor	Waypoint identifier	Flyover	Course Magnetic	Turn direction	Altitude	Speed limit	Magnetic variation	Distance	Navigation performance
UVMAT TRANSITION									
IF	UVMAT				+FL60	210 kts	1°W		
TF	MM764	N	240.90°		@FL50		1°W	5.06	RNP 0.30
RF CENTER M999 r=4.29 NM	MM778	N		right	+2000		1°W	12.81	RNP 0.30
OKMAV TRANSITION									
IF	OKMAV				+FL40	210 kts	1°W		
TF	MM777	N	018.46°		+3000		1°W	7.64	RNP 0.30
TF	MM778	N	031.37°	right	+2000		1°W	4.53	RNP 0.30
FINAL APPROACH									
IF	MM778				+2000		1°W		
TF	TIBAX	N	051.79°		+1800		1°W	1.63	RNP 0.30
TF	RW05*	Y	051.33°		@63		1°W	5.35	RNP 0.30
MISSED APPROACH									
	RW05	Y					1°W		
TF	MM780	N	051.33°			210 kts	1°W	1.20	RNP 0.50
RF CENTER M997 r=4.77 NM	MM781	N		right		210 kts	1°W	2.39	RNP 0.50
RF CENTER M998 r=4.29 NM	MM782	N		right	+FL40	210 kts	1°W	10.65	RNP 1.00
TF	UVMAT	N	222.30°		+FL60	210 kts	1°W	4.90	RNP 1.00

*VPA/TCH 3.06/50

Aeronautical Data Calculation: RNAV (RNP) Z APPROACH RWY 05

Waypoint / Fix	Latitude	Longitude	Latitude (MIN)	Longitude (MIN)	Notes
UVMAT (IAF)	N01°51'17.4542"	E045°21'26.4070"	N01°51.291'	E045°21.440'	
MM764	N01°48'44.5582"	E045°17'04.2486"	N01°48.743'	E045°17.071'	
OKMAV (IAF)	N01°44'34.2597"	E045°07'37.9669"	N01°44.571'	E045°07.633'	
MM777	N01°51'53.7312"	E045°09'55.3449"	N01°51.896'	E045°09.922'	
MM778 (IF)	N01°55'49.2100"	E045°12'12.4900"	N01°55.820'	E045°12.208'	
TIBAX (FAF)	N01°56'51.3217"	E045°13'28.1433"	N01°56.855'	E045°13.469'	
RW05 (MAPt)	N02°00'17.1500"	E045°17'34.8300"	N02°00.286'	E045°17.581'	
MM780	N02°01'03.3919"	E045°18'30.2481"	N02°01.056'	E045°18.504'	
MM781	N02°02'04.4103"	E045°20'38.4580"	N02°02.073'	E045°20.641'	
MM782	N01°54'59.7424"	E045°24'40.4945"	N01°54.996'	E045°24.675'	
MM999	N01°52'28.5842"	E045°14'55.1920"	N01°52.476'	E045°14.920'	
MM998	N01°57'50.4649"	E045°21'27.3570"	N01°57.841'	E045°21.456'	
MM997	N01°57'21.8051"	E045°21'32.8754"	N01°57.363'	E045°21.548'	

Note: Procedure requires tailored runway coordinates
RWY05: N02°00'17.15" E045°17'34.83"
RWY23: N02°01'23.36" E045°18'54.18"

AD 2. AERODROMES

HCMH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

HCMH — EGAL/International

HCMH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	*ARP coordinates and site at AD*	093105.12N0440522.95E
2	*Direction and distance from city*	120deg 6km from the city
3	*Elevation/Reference temperature*	4471.06ft (1362.78M) /29.3degC.
4	*MAG VAR/Annual change*	½ deg E (1993)
5	*AD Administration, address, telephone, Telefax, telex, AFS*	Director General Somaliland Civil Aviation and Airports Authority Tel: +252 634 428 402 saqiire@yahoo.com
6	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
7	*Remarks*	

HCMH AD 2.3 OPERATIONAL HOURS

1	*AD Administration*	Sunday-Thursday 0500UTC-1400UTC. Fri-Sat + Holidays-Nil
2	*Customs and immigration*	0315-1500 UTC
3	*Health and sanitation*	0315-1500 UTC
4	*AIS Briefing Office*	0315-1500 UTC
5	*ATS Reporting Office (ARO)*	0315-1500 UTC
6	*MET Briefing Office*	0315-1500 UTC
7	*ATS*	0315-1500 UTC
8	*Fuelling*	0400-1400 UTC
9	*Handling*	0315-1500 UTC
10	*Security*	H24
11	*De - icing*	N/A
12	*Remarks*	NIL

HCMH AD 2.4 HANDLING SERVICES AND FACILITIES

1	*Cargo-handling facilities*	Available
2	*Fuel/oil types*	JET A1 AVBL
3	*Fuelling facilities/capacity*	
4	*D-icing facilities*	Not Applicable
5	*Hanger space for visiting aircraft*	
6	*Repair facilities for visiting aircraft*	NIL
7	*Remarks*	NIL

HCMH AD 2.5 PASSENGER FACILITIES

1	*Hotels*	Available near the Airport
2	*Restaurants*	Available
3	*Transportation*	Taxi and Car hire
4	*Medical facilities*	Available
5	*Bank and post Office*	Nil
6	*Tourist Office*	Nil
7	*Remarks*	Nil

HCMH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	*AD category for fire fighting*	TBN
2	*Rescue equipment*	Yes
3	*Capability of removal of disabled aircraft*	NIL
4	*Remarks*	NIL

H**CMH AD 2.7 SEASONAL AVAILABILTY-CLEARING-NIL**

HCMH AD 2.8 APRON, TAXIWAYS AND CHECK LOCATION DATA

1	*Apron surface and strength*	Asphalt
2	*Taxiway width, surface and strength*	23M/Asphalt
3	*ACL location and elevation*	TBN
4	*VOR/INS checkpoints*	NIL
5	*Remarks*	NIL

HCMH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	*Use of aircraft stand ID signs TWY guide lines and visual docking/parking guidance system of aircraft stands*	Available
2	*RWY and TWY marking and LGT*	RWY Threshold, Aiming point, Touch Down, Center Line, and Side Stripe is provided. center line, runway Holding is provided
3	*Stop bars*	TBN
4	*Remarks*	Nil

HCMH AD 2.10 AERODROME OBSTACLES

Note: *Area 2 and Area 3 Obstacle data Set Not Available*

ICAO Annex 14 Obstacle Limitation Surfaces Analysis **- Obstacles that penetrate the obstacle limitation surfaces**

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey Date
	Latitude	Longitude	m	ft		Y/N	Easting	Northing	m	ft	m		
1048	093051.66N	0440457.32E	1348.65	4424.69	BUSH	N	399306.03	1051851.49	1366.45	4483.10	4.05	Runway Strip	07/02/2014
1073	093131.44N	0440555.49E	1348.07	4422.79	TREE	N	401083.05	1053068.40	1365.87	4481.20	3.93	Runway Strip	08/02/2014
1116	093042.51N	0440456.17E	1347.44	4420.72	TREE	N	399270.29	1051570.52	1365.24	4479.13	4.24	Runway Strip	08/02/2014
1119	093041.46N	0440456.70E	1349.39	4427.12	TREE	N	399286.29	1051538.06	1367.19	4485.53	6.23	Runway Strip	08/02/2014
1329	093042.14N	0440455.84E	1346.44	4417.44	TREE	N	399260.10	1051558.97	1364.24	4475.85	3.35	Runway Strip	10/02/2014
1330	093041.41N	0440456.03E	1346.36	4417.18	TREE	N	399265.94	1051536.75	1364.16	4475.59	3.33	Runway Strip	10/02/2014
1332	093042.57N	0440454.48E	1346.72	4418.36	TREE	N	399218.70	1051572.24	1364.52	4476.77	3.83	Runway Strip	10/02/2014
1333	093041.06N	0440454.94E	1345.96	4415.87	TREE	N	399232.53	1051526.08	1363.76	4474.28	3.16	Runway Strip	10/02/2014
1336	093039.60N	0440451.59E	1347.10	4419.61	TREE	N	399130.43	1051481.40	1364.90	4478.02	4.91	Runway Strip	10/02/2014
1337	093039.08N	0440450.62E	1346.20	4416.65	TREE	N	399100.85	1051465.39	1364.00	4475.07	4.10	Runway Strip	10/02/2014
1339	093040.50N	0440450.61E	1343.38	4407.40	BUSH	N	399100.53	1051509.17	1361.18	4465.81	1.22	Runway Strip	10/02/2014
1342	093043.67N	0440446.81E	1345.41	4414.06	TREE	N	398984.96	1051606.66	1363.21	4472.47	3.35	Runway Strip	10/02/2014
1343	093043.91N	0440446.85E	1346.53	4417.74	TREE	N	398986.27	1051614.26	1364.33	4476.15	4.46	Runway Strip	10/02/2014
1349	093045.64N	0440448.22E	1345.70	4415.01	BUSH	N	399028.22	1051667.23	1363.50	4473.43	3.46	Runway Strip	10/02/2014
1350	093044.84N	0440448.51E	1344.51	4411.11	BUSH	N	399036.82	1051642.69	1362.31	4469.52	2.29	Runway Strip	10/02/2014
5424	093131.62N	0440555.74E	1346.12	4416.39	BUND	N	401090.59	1053074.04	1363.92	4474.80	1.99	Runway Strip	08/02/2014
5425	093131.52N	0440555.55E	1346.26	4416.85	BUND	N	401084.69	1053070.98	1364.06	4475.26	2.12	Runway Strip	08/02/2014
5426	093131.28N	0440555.31E	1346.28	4416.92	BUND	N	401077.32	1053063.55	1364.08	4475.33	2.14	Runway Strip	08/02/2014
5427	093131.07N	0440555.20E	1346.21	4416.69	BUND	N	401074.09	1053057.33	1364.01	4475.10	2.06	Runway Strip	08/02/2014
5428	093130.96N	0440555.08E	1345.48	4414.29	BUND	N	401070.26	1053053.94	1363.28	4472.70	1.33	Runway Strip	08/02/2014
5429	093130.03N	0440553.50E	1345.90	4415.67	BUND	N	401022.02	1053025.31	1363.70	4474.08	1.71	Runway Strip	08/02/2014
5430	093130.18N	0440553.38E	1346.57	4417.87	BUND	N	401018.61	1053029.99	1364.37	4476.28	2.38	Runway Strip	08/02/2014

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit Y/N	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey Date
	Latitude	Longitude	m	ft			Easting	Northing	m	ft	m		
5431	093129.45N	0440552.72E	1345.59	4414.65	BUND	N	400998.42	1053007.56	1363.39	4473.06	1.33	Runway Strip	08/02/2014
5432	093129.59N	0440552.66E	1346.48	4417.57	BUND	N	400996.61	1053011.88	1364.28	4475.98	2.23	Runway Strip	08/02/2014
5433	093129.06N	0440555.72E	1344.69	4411.70	BUND	N	401089.77	1052995.32	1362.49	4470.11	0.53	Runway Strip	08/02/2014
5434	093129.11N	0440555.88E	1344.68	4411.67	BUND	N	401094.71	1052997.04	1362.48	4470.08	0.52	Runway Strip	08/02/2014
5435	093129.69N	0440556.24E	1345.68	4414.95	BUND	N	401105.52	1053014.78	1363.48	4473.36	1.53	Runway Strip	08/02/2014
5436	093129.76N	0440556.44E	1345.83	4415.44	BUND	N	401111.80	1053016.89	1363.63	4473.85	1.69	Runway Strip	08/02/2014
5437	093129.86N	0440556.60E	1346.14	4416.46	BUND	N	401116.48	1053020.06	1363.94	4474.87	2.00	Runway Strip	08/02/2014
5438	093130.02N	0440556.76E	1346.06	4416.19	BUND	N	401121.48	1053024.74	1363.86	4474.61	1.93	Runway Strip	08/02/2014

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit Y/N	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey Date
	Latitude	Longitude	m	ft			Easting	Northing	m	ft	m		
1074	093130.20N	0440556.99E	1347.14	4419.74	BUSH	N	401128.49	1053030.17	1364.94	4478.15	2.90	TOC 06	08/02/2014
5415	093132.66N	0440601.89E	1347.95	4422.39	MOBILE_OBS	N	401277.99	1053105.36	1365.75	4480.81	0.39	TOC 06	08/02/2014
5416	093132.62N	0440600.98E	1348.21	4423.25	MOBILE_OBS	N	401250.39	1053104.35	1366.01	4481.66	1.12	TOC 06	08/02/2014
5417	093132.78N	0440559.89E	1348.52	4424.26	MOBILE_OBS	N	401217.19	1053109.34	1366.32	4482.68	1.92	TOC 06	08/02/2014
5418	093132.94N	0440559.41E	1348.63	4424.63	MOBILE_OBS	N	401202.55	1053114.40	1366.43	4483.04	2.22	TOC 06	08/02/2014
5419	093132.89N	0440558.81E	1348.80	4425.18	MOBILE_OBS	N	401184.39	1053112.83	1366.60	4483.60	2.71	TOC 06	08/02/2014
5420	093132.89N	0440558.34E	1348.93	4425.61	MOBILE_OBS	N	401169.92	1053112.89	1366.73	4484.02	3.07	TOC 06	08/02/2014
5439	093130.17N	0440556.85E	1346.28	4416.92	BUND	N	401124.27	1053029.42	1364.08	4475.33	2.12	TOC 06	08/02/2014
5440	093130.50N	0440556.93E	1345.86	4415.54	BUND	N	401126.63	1053039.40	1363.66	4473.95	1.55	TOC 06	08/02/2014
5441	093130.69N	0440556.92E	1345.95	4415.83	BUND	N	401126.41	1053045.40	1363.75	4474.25	1.57	TOC 06	08/02/2014
5442	093130.79N	0440556.92E	1346.34	4417.11	BUND	N	401126.38	1053048.30	1364.14	4475.52	1.93	TOC 06	08/02/2014
5443	093130.97N	0440556.84E	1345.83	4415.44	BUND	N	401123.96	1053053.89	1363.63	4473.85	1.40	TOC 06	08/02/2014
5444	093131.14N	0440556.82E	1345.95	4415.83	BUND	N	401123.42	1053059.20	1363.75	4474.25	1.47	TOC 06	08/02/2014
5445	093131.32N	0440556.70E	1346.15	4416.49	BUND	N	401119.76	1053064.60	1363.95	4474.90	1.67	TOC 06	08/02/2014
5456	093134.31N	0440600.04E	1348.72	4424.92	MOBILE_OBS	N	401221.85	1053156.26	1366.52	4483.33	1.52	TOC 06	08/02/2014

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit Y/N	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey Date
	Latitude	Longitude	m	ft			Easting	Northing	m	ft	m		
5457	093134.13N	0440600.53E	1348.54	4424.33	MOBILE_OBS	N	401236.91	1053150.78	1366.34	4482.74	1.15	TOC 06	08/02/2014
5458	093134.09N	0440601.11E	1348.39	4423.84	MOBILE_OBS	N	401254.61	1053149.41	1366.19	4482.25	0.72	TOC 06	08/02/2014
5459	093133.90N	0440602.00E	1348.07	4422.79	MOBILE_OBS	N	401281.60	1053143.65	1365.87	4481.20	0.02	TOC 06	08/02/2014
5483	093132.58N	0440602.24E	1347.81	4421.94	MOBILE_OBS	N	401288.76	1053103.10	1365.61	4480.35	0.10	TOC 06	08/02/2014

Note: Although the roads crossing the extended runway centreline are unpaved and unlikely to carry very high vehicles, a mobile obstacle height of 4.8m above ground level has been used in accordance with Annex 14.

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit Y/N	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey Date
	Latitude	Longitude	m	ft			Easting	Northing	m	ft	m		
1112	093038.23N	0440438.44E	1348.29	4423.51	TREE	N	398729.29	1051440.36	1366.09	4481.92	0.24	TOC 24	08/02/2014
1114	093040.38N	0440441.92E	1347.37	4420.49	TREE	N	398835.44	1051506.15	1365.17	4478.90	1.82	TOC 24	08/02/2014
1115	093040.75N	0440442.92E	1345.89	4415.64	TREE	N	398865.99	1051517.40	1363.69	4474.05	0.97	TOC 24	08/02/2014
1340	093040.51N	0440441.87E	1348.98	4425.77	TREE	N	398834.19	1051510.20	1366.78	4484.19	3.45	TOC 24	10/02/2014

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit Y/N	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey Date
	Latitude	Longitude	m	ft			Easting	Northing	m	ft	m		
1110	093043.67N	0440444.34E	1349.27	4426.73	TREE	N	398909.51	1051606.96	1367.07	4485.14	6.08	Approach 06	08/02/2014
1112	093038.23N	0440438.44E	1348.29	4423.51	TREE	N	398729.29	1051440.36	1366.09	4481.92	0.24	Approach 06	08/02/2014
1114	093040.38N	0440441.92E	1347.37	4420.49	TREE	N	398835.44	1051506.15	1365.17	4478.90	1.82	Approach 06	08/02/2014
1115	093040.75N	0440442.92E	1345.89	4415.64	TREE	N	398865.99	1051517.40	1363.69	4474.05	0.97	Approach 06	08/02/2014
1338	093037.41N	0440450.79E	1345.84	4415.47	TREE	N	399105.86	1051414.20	1363.64	4473.88	3.72	Approach 06	10/02/2014
1340	093040.51N	0440441.87E	1348.98	4425.77	TREE	N	398834.19	1051510.20	1366.78	4484.19	3.45	Approach 06	10/02/2014
1344	093043.57N	0440444.53E	1349.86	4428.66	TREE	N	398915.45	1051604.04	1367.66	4487.07	6.73	Approach 06	10/02/2014
1345	093043.95N	0440444.48E	1349.55	4427.64	TREE	N	398914.01	1051615.44	1367.35	4486.06	6.53	Approach 06	10/02/2014

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit Y/N	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey Date
	Latitude	Longitude	m	ft			Easting	Northing	m	ft	m		
1346	093044.33N	0440444.86E	1348.78	4425.12	TREE	N	398925.67	1051627.14	1366.58	4483.53	6.08	Approach 06	10/02/2014
1355	093039.23N	0440435.71E	1350.50	4430.76	TREE	N	398646.29	1051471.17	1368.30	4489.17	1.43	Approach 06	10/02/2014

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit Y/N	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey Date
	Latitude	Longitude	m	ft			Easting	Northing	m	ft	m		
1074	093130.20N	0440556.99E	1347.14	4419.74	BUSH	N	401128.49	1053030.17	1364.94	4478.15	2.90	Approach 24	08/02/2014
5415	093132.66N	0440601.89E	1347.95	4422.39	MOBILE_OBS	N	401277.99	1053105.36	1365.75	4480.81	0.39	Approach 24	08/02/2014
5416	093132.62N	0440600.98E	1348.21	4423.25	MOBILE_OBS	N	401250.39	1053104.35	1366.01	4481.66	1.12	Approach 24	08/02/2014
5417	093132.78N	0440559.89E	1348.52	4424.26	MOBILE_OBS	N	401217.19	1053109.34	1366.32	4482.68	1.92	Approach 24	08/02/2014
5418	093132.94N	0440559.41E	1348.63	4424.63	MOBILE_OBS	N	401202.55	1053114.40	1366.43	4483.04	2.22	Approach 24	08/02/2014
5419	093132.89N	0440558.81E	1348.80	4425.18	MOBILE_OBS	N	401184.39	1053112.83	1366.60	4483.60	2.71	Approach 24	08/02/2014
5420	093132.89N	0440558.34E	1348.93	4425.61	MOBILE_OBS	N	401169.92	1053112.89	1366.73	4484.02	3.07	Approach 24	08/02/2014
5421	093133.11N	0440557.57E	1349.08	4426.10	MOBILE_OBS	N	401146.52	1053119.80	1366.88	4484.51	3.53	Approach 24	08/02/2014
5422	093133.42N	0440556.59E	1349.31	4426.86	MOBILE_OBS	N	401116.54	1053129.14	1367.11	4485.27	4.15	Approach 24	08/02/2014
5423	093133.59N	0440555.77E	1349.45	4427.32	MOBILE_OBS	N	401091.66	1053134.54	1367.25	4485.73	4.64	Approach 24	08/02/2014
5439	093130.17N	0440556.85E	1346.28	4416.92	BUND	N	401124.27	1053029.42	1364.08	4475.33	2.12	Approach 24	08/02/2014
5440	093130.50N	0440556.93E	1345.86	4415.54	BUND	N	401126.63	1053039.40	1363.66	4473.95	1.55	Approach 24	08/02/2014
5441	093130.69N	0440556.92E	1345.95	4415.83	BUND	N	401126.41	1053045.40	1363.75	4474.25	1.57	Approach 24	08/02/2014
5442	093130.79N	0440556.92E	1346.34	4417.11	BUND	N	401126.38	1053048.30	1364.14	4475.52	1.93	Approach 24	08/02/2014
5443	093130.97N	0440556.84E	1345.83	4415.44	BUND	N	401123.96	1053053.89	1363.63	4473.85	1.40	Approach 24	08/02/2014
5444	093131.14N	0440556.82E	1345.95	4415.83	BUND	N	401123.42	1053059.20	1363.75	4474.25	1.47	Approach 24	08/02/2014
5445	093131.32N	0440556.70E	1346.15	4416.49	BUND	N	401119.76	1053064.60	1363.95	4474.90	1.67	Approach 24	08/02/2014
5446	093131.58N	0440556.41E	1346.63	4418.06	BUND	N	401110.95	1053072.69	1364.43	4476.48	2.20	Approach 24	08/02/2014
5447	093131.60N	0440556.32E	1346.50	4417.64	BUND	N	401108.30	1053073.51	1364.30	4476.05	2.11	Approach 24	08/02/2014
5448	093131.65N	0440556.19E	1346.40	4417.31	BUND	N	401104.31	1053074.85	1364.20	4475.72	2.06	Approach 24	08/02/2014
5449	093131.67N	0440556.03E	1346.40	4417.31	BUND	N	401099.46	1053075.44	1364.20	4475.72	2.13	Approach 24	08/02/2014

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit Y/N	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey Date
	Latitude	Longitude	m	ft			Easting	Northing	m	ft	m		
5450	093131.67N	0440555.91E	1346.31	4417.01	BUND	N	401095.73	1053075.50	1364.11	4475.43	2.10	Approach 24	08/02/2014
5451	093133.84N	0440556.63E	1349.28	4426.76	MOBILE_OBS	N	401118.00	1053142.09	1367.08	4485.17	3.95	Approach 24	08/02/2014
5452	093133.93N	0440557.31E	1349.23	4426.59	MOBILE_OBS	N	401138.59	1053144.98	1367.03	4485.01	3.53	Approach 24	08/02/2014
5453	093134.29N	0440557.99E	1349.15	4426.33	MOBILE_OBS	N	401159.50	1053155.89	1366.95	4484.74	2.98	Approach 24	08/02/2014
5454	093134.55N	0440558.87E	1348.93	4425.61	MOBILE_OBS	N	401186.15	1053163.90	1366.73	4484.02	2.23	Approach 24	08/02/2014
5455	093134.54N	0440559.37E	1348.95	4425.68	MOBILE_OBS	N	401201.35	1053163.48	1366.75	4484.09	2.01	Approach 24	08/02/2014
5456	093134.31N	0440600.04E	1348.72	4424.92	MOBILE_OBS	N	401221.85	1053156.26	1366.52	4483.33	1.52	Approach 24	08/02/2014
5457	093134.13N	0440600.53E	1348.54	4424.33	MOBILE_OBS	N	401236.91	1053150.78	1366.34	4482.74	1.15	Approach 24	08/02/2014
5458	093134.09N	0440601.11E	1348.39	4423.84	MOBILE_OBS	N	401254.61	1053149.41	1366.19	4482.25	0.72	Approach 24	08/02/2014
5459	093133.90N	0440602.00E	1348.07	4422.79	MOBILE_OBS	N	401281.60	1053143.65	1365.87	4481.20	0.02	Approach 24	08/02/2014
5483	093132.58N	0440602.24E	1347.81	4421.94	MOBILE_OBS	N	401288.76	1053103.10	1365.61	4480.35	0.10	Approach 24	08/02/2014

Note: Although the roads crossing the extended runway centreline are unpaved and unlikely to carry very high vehicles, a mobile obstacle height of 4.8m above ground level has been used in accordance with Annex 14.

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit Y/N	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey Date
	Latitude	Longitude	m	ft			Easting	Northing	m	ft	m		
1347	093043.41N	0440440.96E	1351.34	4433.52	TREE	N	398806.49	1051599.16	1369.14	4491.93	6.02	Transitional 06	10/02/2014
1348	093044.67N	0440443.42E	1349.77	4428.37	TREE	N	398881.80	1051637.91	1367.57	4486.78	5.82	Transitional 06	10/02/2014
2018	093052.86N	0440453.06E	1353.12	4439.36	WINDSLEEVE	N	399176.19	1051888.55	1370.92	4497.77	1.04	Transitional 06	07/02/2014

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit Y/N	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey Date
	Latitude	Longitude	m	ft			Easting	Northing	m	ft	m		
2018	093052.86N	0440453.06E	1353.12	4439.36	WINDSLEEVE	N	399176.19	1051888.55	1370.92	4497.77	1.04	Transitional 24	07/02/2014

Ref No.	WGS84 Coordinates		WGS84 Ht		Description	Lit	UTM38N Coordinates		Ht AMSL (EGM96)		Pen	Surface	Survey
	Latitude	Longitude	m	ft		Y/N	Easting	Northing	m	ft	m		Date
1051	093146.62N	0440446.56E	1395.20	4577.41	MAST	N	398982.47	1053540.16	1413.00	4635.83	8.15	Inner Horizontal	07/02/2014
1126	093212.46N	0440320.94E	1435.44	4709.44	MAST	N	396374.07	1054340.92	1453.24	4767.85	48.39	Inner Horizontal	08/02/2014
1127	093210.01N	0440322.93E	1417.55	4650.74	MAST	N	396434.68	1054265.50	1435.35	4709.15	30.50	Inner Horizontal	08/02/2014
1128	093213.02N	0440322.37E	1401.67	4598.64	MAST	N	396417.77	1054358.03	1419.47	4657.05	14.62	Inner Horizontal	08/02/2014
1130	093152.80N	0440416.92E	1406.64	4614.95	MAST	Y	398079.25	1053732.56	1424.44	4673.36	19.59	Inner Horizontal	08/02/2014
1132	093122.97N	0440431.12E	1393.06	4570.39	MAST	N	398509.75	1052815.16	1410.86	4628.81	6.01	Inner Horizontal	08/02/2014
1136	093125.47N	0440435.85E	1389.18	4557.66	MAST	N	398654.07	1052891.41	1406.98	4616.08	2.13	Inner Horizontal	09/02/2014
1357	093059.95N	0440249.45E	1392.22	4567.64	MAST	N	395407.90	1052116.46	1410.02	4626.05	5.17	Inner Horizontal	10/02/2014

There are no obstacles in the conical or outer horizontal surfaces.

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HCMH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	*Associated MET Office*	HARGEISA
2	*Hours of service MET office outside hours*	0330-1500 DAILY
3	*Office responsible for TAF preparation periods of validity*	NIL
4	*Type of landing forecast interval of issuance*	NIL
5	*Briefing/consultation provided*	NIL
6	*Flight documentation Language (s)used*	ENGLISH
7	*Charts and other information available for briefing or consultation*	Observation Reports-Metar, Speci and Synop.
8	*Supplementary equipment available for providing information*	Weather Monitor Vantage pr II
9	*ATC units provided with information*	HARGEISA TWR
10	*Additional information (Limitation of services etc.)*	Nil

HCMH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designation RWY NR	*TRUE and MAG BRG*	*Dimensions of RWY (M)*	*Strength(PCN) And surface of RWY and SWY*	*THR coordinates*	*THR elevation Highest elevation of TDZ of precision app RWY*
1	*2*	*3*	*4*	*5*	*6*
06	*055° T*	*3700* x 45	*Asphalt*	093020.04N0440417.128E	4471FT GUND -17M
24	*235° T*	3700 x 45	*Asphalt*	093127.71N0440556.11E	4468FT GUND -17M
Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY dimensions (M)*	*Strip dimensions (M)*	*OFZ*	*Remarks*
7	*8*	*9*	*10*	*11*	*12*
	60 x *45*	*60* x *45*	*3760* x *300*	TBN	

HCMH AD 2.13 DECLARED DISTANCES

RWY designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
06	3700M	3700M	3700M	3700M	Nil
24	3700M	3700M	3700M	3700M	Nil

HCMH AD 2.14 APPROACH AND RUNWAY LIGHTING-NIL

HCMH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

HCMH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	*ABN/IBN location, characteristics and hours of operation*	At the top of control Tower building
2	*LDI location and LGT* *Anemometer location and LGT*	TBN
3	*TWY edge and centre line lighting*	Nil
4	*Secondary power supply/switch-over time*	TBN
5	*Remarks*	Nil

HCMH AD 2.16 HELICOPTER LANDING AREA-NOT DESIGNATED

HCMH AD 2.17 ATS AIRSPACE

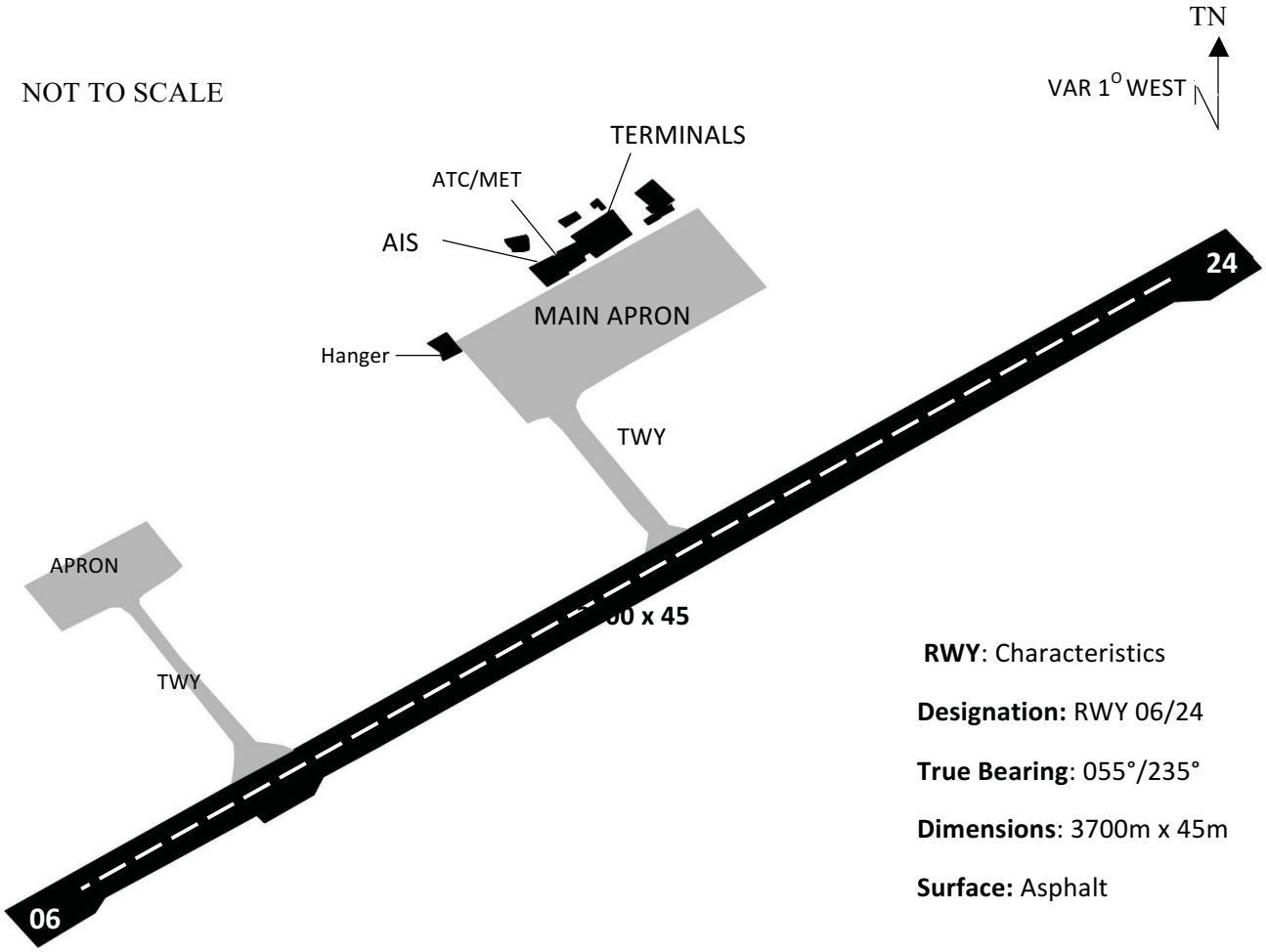
1	*Designation and lateral limits*	HARGEISA CTZ. A Circle, 5NM Radius centered at ARP
2	*Vertical limits*	SFC TO 8000 FT
3	*Airspace classification*	AIRSPACE CLASS D
4	*ATS unit call sign* *Language(s)*	HARGEISA TWR/ ENGLISH
5	*Transition altitude*	8000 FT
6	*Remarks*	

HCMH AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	2	3	4	5
TWR	HARGEISA TWR	118.7 MHZ	DAILY (0315-1500Z)	

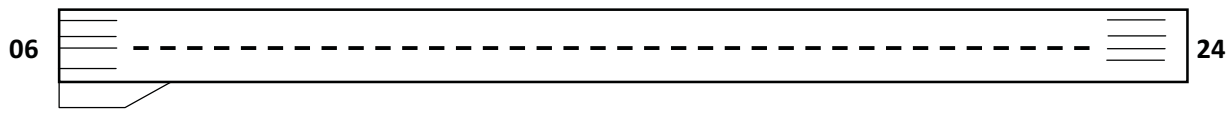
HCMH AD 2.19 RADIO NAVIGATION AND LANDING AIDS-NIL

AERODROME CHART- ICAO	ARP 093105.12N 0440522.95E	APRON ELEV 4471FT	TWR 118.7 MHZ	**HARGEISA/EGAL**



LEGEND	
RWY & TERMINALS	
TWY & APRON	

MARKING AIDS RWY 06/24



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AD 2. AERODROMES

HCMI AD 2.1 AERODROME LOCATION INDICATOR AND NAME

HCMI — BERBERA International Airport

HCMI AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

Aerodrome Name, ARP coordinate, AD Elevation, Transition Altitude	***RWY Physical Characteristics, TWY and apron***	***Hours of Operations***	***Available Services***	***Remarks***
Berbera INTL Airport ARP: 102324N0445530E ELEV: 30ft TA:3000ft AMSL Location: 4NM BRG 234° SW of the City	RWY Data Designation: RWY 05/23 Dimensions: 4140 x 50 Surface: Asphalt* TORA, TODA, ASDA, LDA: 4140M	0330-1430 UTC Daily	AFIS, MET, Administration, Customs and Immigration	1. Pilots are advised to exercise caution while landing, taking off and taxiing due to presence of large birds, animals and people straying within the aerodrome. 2. Pilots are advised to exercise caution while landing and taking off due to disabled aircraft AN12 1100m from THR 23 and 7m from runway edge to the right of runway 23. 3. Authority supervising the Aerodrome is Ministry of Civil Aviation and Air Transport, Somaliland.

AD CLOSED FOR RENOVATION.SEE NOTAM

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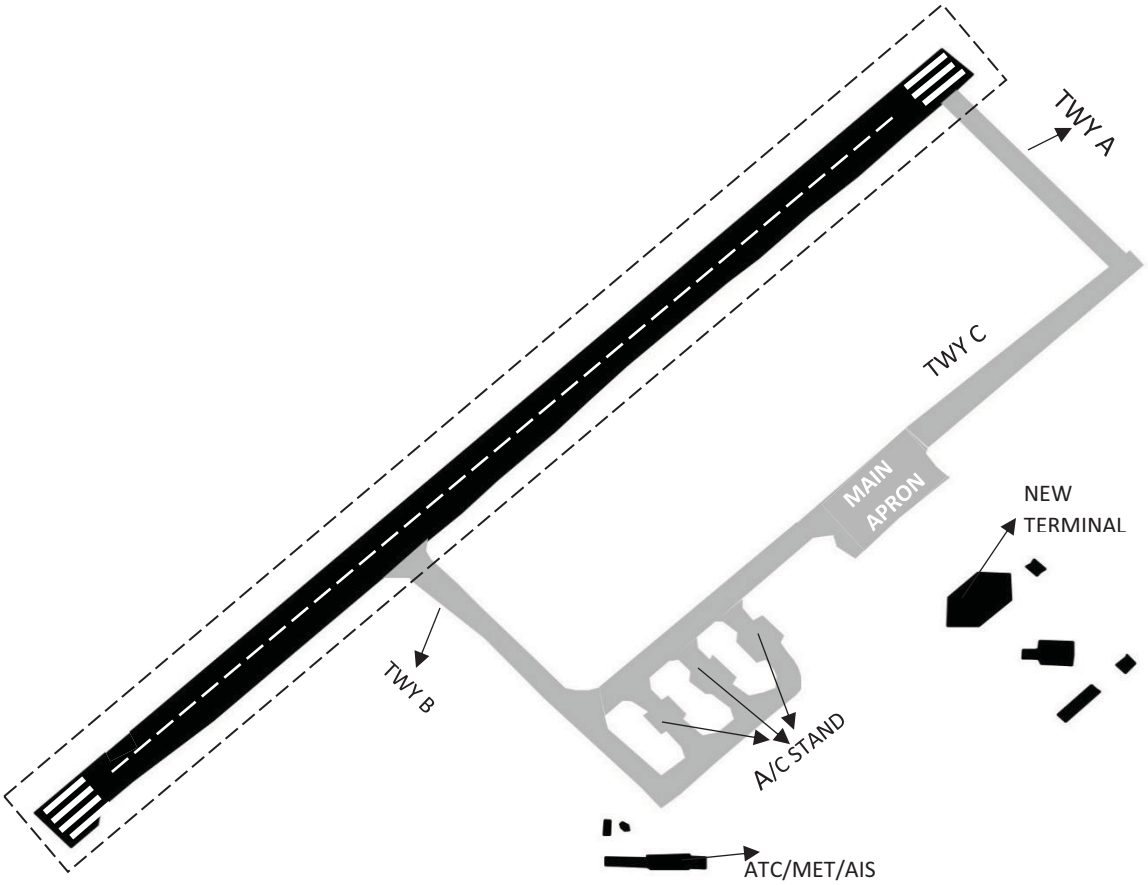
AERODROME CHART- ICAO	102324N 0445530E	APRON ELEV	TWR 123.9 MHZ	**BERBERA/BER**

NOT TO SCLE



RWY Characteristics

Designation:

RWY 05/23

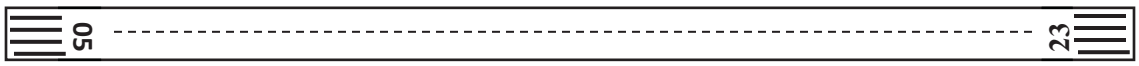
True Bearing:

Dimensions: 4140m x 50m

Surface: Asphalt

LEGEND	
RWY & TERMINALS	
TWY & APRON	

MARKING AIDS RWY 05/23



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AD 2. AERODROMES

HCMF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

HCMF BOSASO /INTERNATIONAL

HCMF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	*ARP coordinates and site at AD*	111700N 0491100E
2	*Directions and distance from (city)*	1ML west of city
3	*Elevation/Reference temperature*	TBN
4	*MAG VAR/Annual change*	1° East
5	*AD Administration, address, telephone* *Telefax, telex, AFS*	*Ministry of Civil Aviation and Airports Authority* Puntland Somalia *Tel: +252-90-7791233:* *Email: Moocaadgen@gmail.com* *Web: www.Plmocaa.so*
6	*Types of traffic permitted (IFR/VFR)*	VFR
7	*Remarks*	

HCMF AD 2.3 OPERATIONAL HOURS

1	*AD Administration*	Sunday-Thursday 0500UTC-1400UTC. Fri-Sat + Holidays-Nil
2	*Customs and immigration*	0330-1430 UTC
3	*Health and sanitation*	NIL
4	*AIS Briefing Office*	0330-1430 UTC0
5	*ATS Reporting Office (ARO)*	0330-1430 UTC
6	*MET Briefing Office*	0330-1430 UTC
7	*ATS*	0330-1430 UTC
8	*Fueling*	0330-1430 UTC
9	*Handling*	0330-1430 UTC
10	*Security*	H24
11	*De-icing*	N/A
12	*Remarks*	

HCMF AD 2.4 HANDLING SERVICES AND FACILITIES

1	*Cargo-handling facilities*	Available.
2	*Fuel/oil types*	Jet A1
3	*Fueling facilities/capacity*	TBN
4	*De-icing facilities*	N/A
5	*Hangar space for visiting aircraft*	TBN
6	*Repair facilities for visiting aircraft*	TBN
7	*Remarks*	1. Ground handling services available. Operators to contact the ground handling company on: Tel: +25290-7849919 or +252907796207 Email: aismail@sunriseairports.com mali@sunriseairports.com 2. Jet A1 fuel is available Operators to contact the supplier on; Tel: +25290-7796768 Email: Ahmed.hashi@dsaviationfuel.com

HCMF AD 2.5 PASSENGER FACILITIES

1	*Hotels*	Near the AD and in the city.
2	*Restaurants*	At AD and in the city.
3	*Transportation*	Available
4	*Medical facilities*	In City
5	*Bank and Post Office*	Not Available
6	*Tourist Office*	Nil
7	*Remarks*	Nil

HCMF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES-TBN

1	*AD category for fire fighting*	Firefighting Services available. AD Category for Firefighting :TBN
2	*Rescue equipment*	Nil
3	*Capability for removal of disabled aircraft*	
4	*Remarks*	

HCMF AD 2.7 SEASONAL AVAILABILITY — CLEARING- NIL
HCMF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	*Apron surface and strength*	Surface: Concrete
2	*Taxiway width, surface and strength*	Width: 23M, Surface: Asphalt: Strength: TBN
3	*Altimeter checkpoint location and elevation*	TBN
6	*Remarks*	

HCMF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	*Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands*	TWY guidelines marked
2	*RWY and TWY markings and LGT*	RWY: RWY Threshold, Center Line, and Side Stripe marked. TWY: center line, runway Holding marked
3	*Stop bars*	NIL
4	*Remarks*	Caution is advised that Taxiway shoulders not flush with adjacent ground.

HCMF AD 2.10 AERODROME OBSTACLES-TBN

HCMF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	*Associated MET Office*	BOSASO
2	*Hours of service MET office outside hours*	0330Z - 1430Z DAILY
3	*Office responsible for TAF preparation periods of validity*	NIL
4	*Type of landing forecast interval of issuance*	NIL
5	*Briefing/consultation provided*	NIL
6	*Flight documentation Language (s)used*	ENGLISH
7	*Charts and other information available for briefing or consultation*	Observation Reports-Metar, Speci and Synop.
8	*Supplementary equipment available for providing information*	Weather Monitor Vantage pr II
9	*ATC units provided with information*	BOSASO TWR
10	*Additional information (Limitation of services etc.)*	Nil

HCMF AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designation RWY NR	*TRUE and MAG BRG*	*Dimensions of RWY (M)*	*Strength(PCN) And surface of RWY and SWY*	*THR coordinates*	*THR elevation Highest elevation of TDZ of precision app RWY*
1	*2*	*3*	*4*	*5*	*6*
09 *27*	*089° T* *269° T*	*2400 x 45* *2400 x 45*	*Asphalt*	*TBN*	*TBN*
Slope of RWY-SWY	*SWY Dimensions (M)*	*CWY dimensions (M)*	*Strip dimensions (M)*	*OFZ*	*Remarks*
7	*8*	*9*	*10*	*11*	*12*
TBN	*TBN*	*TBN*	*TBN*	*TBN*	

HCMF AD 2.13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
09	2400	2 400	2 400	2 400	Nil
27	2 400	2 400	2 400	2 400	Nil

HCMF AD 2.14 APPROACH AND RUNWAY LIGHTING- NILL

HCMF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY- NILL

HCMF AD 2.16 HELICOPTER LANDING AREA-NIL

HCMF AD 2.17 ATS AIRSPACE

1	*Designation and lateral limits*	BOSASO CTR, A circle 15NM radius centered at PSN 111700N 0491100E
2	*Vertical limits*	SFC TO 3000 FT
3	*Airspace classification*	AIRSPACE CLASS D
4	*ATS unit call sign*	BOSASO TWR
5	*Transition altitude*	3000 FT AMSL
6	*Remarks*	

HCMF AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	2	3	4	5
TWR	BOSASO TWR	120.9MHZ	DAILY (0330Z to 1430Z)	

HCMF AD 2.19 RADIO NAVIGATION AND LANDING AIDS-NIL

HCMF AD 2.20 LOCAL TRAFFIC REGULATION-TBN

HCMF AD HCMM AD 2.24 CHARTS RELATED TO THE AERODROME-TBD

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AD 2. AERODROMES

HCMV AD 2.1 AERODROME LOCATION INDICATOR AND NAME

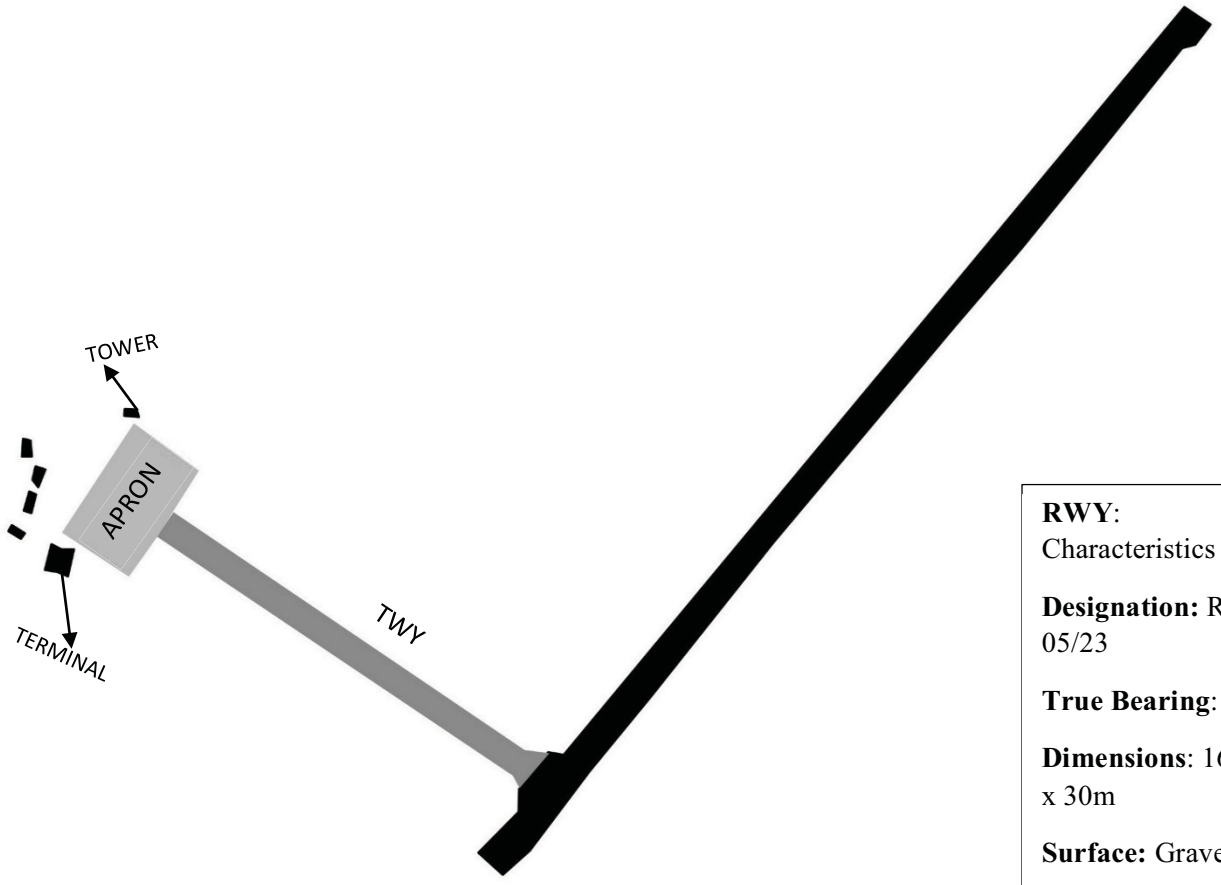
HCMV — BURAO International Airport

HCMV AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

ARP coordinate, AD Elevation, Transition Altitude	***RWY Physical Characteristics, TWY and Apron***	***Hours of Operations***	***Available Services***	***Remarks***
*ARP: 093000N 0453400E** *ELEV: 3410ft** *TA:700ft AMSL*	***RWY Data*** *Designation: RWY 05/23* *Dimensions:1600x 30m** *Surface: Gravel* *RWY Strength: RWY recommended for ACFT up to AN24 and AN26* *TORA, TODA, ASDA, LDA — 1600** ***TWY & Apron Data*** *TWY Width: 33M** *Surface: Gravel* *Apron Surface: Gravel*	*033 – 1430 UTC Daily*	*AD administration* *Customs, immigration, Health* *Sanitation, Security, Ground Handling* *Transportation and Banking,*	*1. Pilots are advice to exercise caution while landing and taking off due to floods 400m FM THR RWY 05 during raining season.* *2. Authority supervising the Aerodrome is Ministry of Civil Aviation and Air transport, Somaliland.*

Note___ Aeronautical data marked with asterisk (*) indicate WGS-1984 ground survey has not been undertaken for the concerned airport. Coordinates have been derived using non survey methods.

AERODROME CHART- ICAO	ARP 093000N 0453400E*	APRON ELEV 3410FT *	TWR 118.7 MHZ	**BURAO/BUR**



RWY: Characteristics

Designation: RWY 05/23

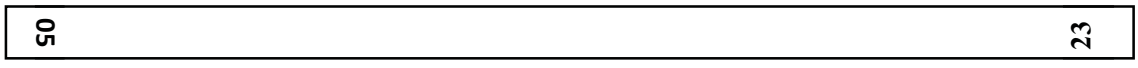
True Bearing:

Dimensions: 1600m x 30m

Surface: Gravel

LEGEND	
RWY & TERMINALS	
TWY & APRON	

MARKING AIDS RWY 05/23 NIL



AD 2. AERODROMES

HCGR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

HCGR — NEW GAROWE International Airport

HCGR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

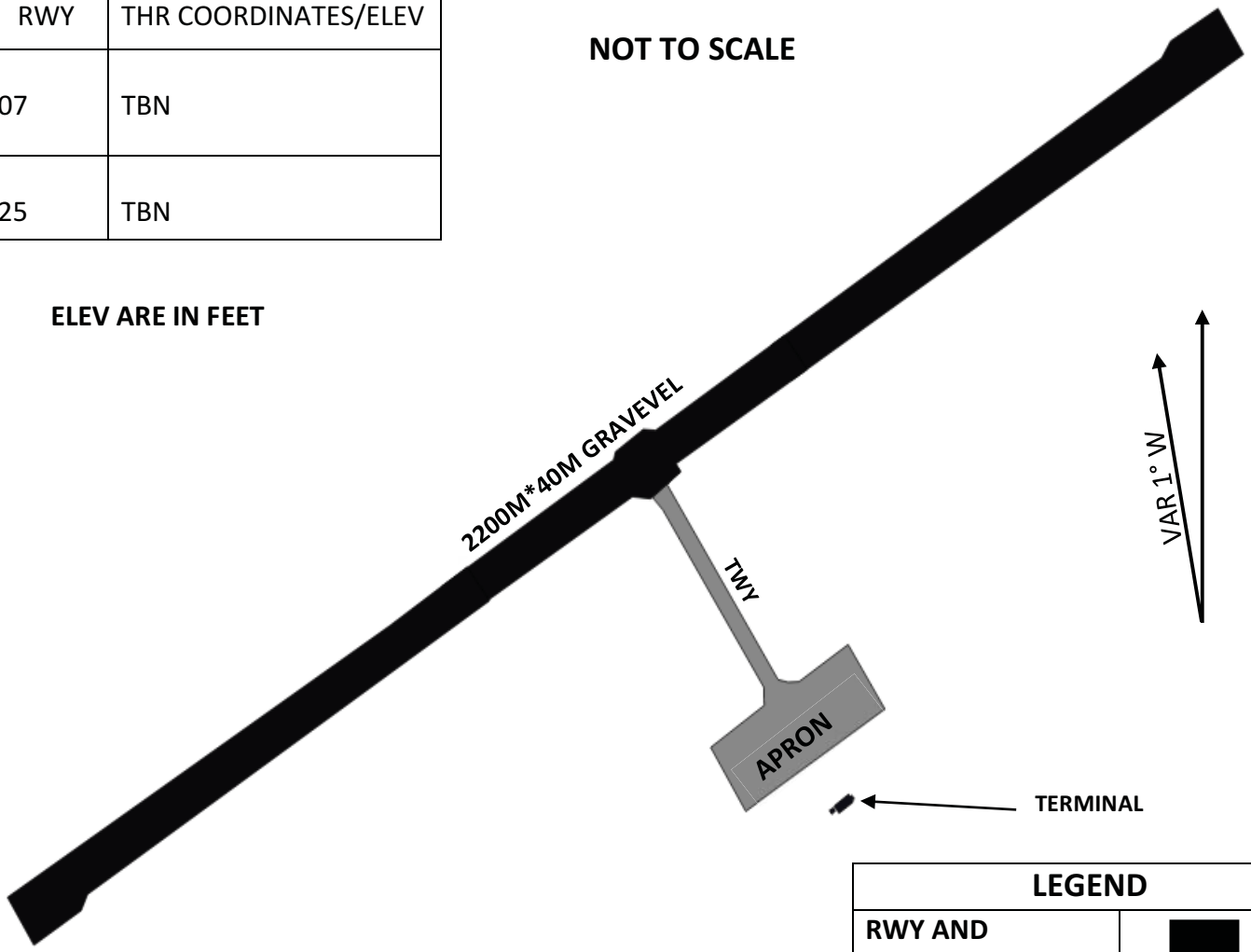
Aerodrome Name, ARP coordinate, AD Elevation, Transition Altitude	**RWY Physical Characteristics, TWY and apron**	**Hours of Operations**	**Available Services**	**Remarks**
New Garowe Airport (Muglotagtag) ARP: 082736N0483424E* ELEV: 1500ft* AMSL	**Runway Data** RWY Designation: RWY 07/25 True Bearing: TBN RWY Dimensions: 2200M x 40M* RWY Surface: Gravel Declared Distances: RWY 07/25 LDA ASDA TORA TODA } 2200M*	HJ	TBN	1. Pilots are advised to exercise caution while landing, taking off and taxiing due to animals and people straying 2. Authority Supervising the Aerodrome is Civil Aviation and airport's, Puntland.

Note___ Aeronautical data marked with asterisk (*) indicate WGS-1984 ground survey has not been undertaken for the concerned airport. Coordinates have been derived using non survey methods.

AERODROME CHART	ARP 082736N0483424E*	APRON ELEV 1500 FT*	**TWR 132.5**	**GAROWE AIRSTRIP (MUGLOTAGTAG)**

RWY	THR COORDINATES/ELEV
07	TBN
25	TBN

NOT TO SCALE



ELEV ARE IN FEET

LEGEND	
RWY AND BUILDINGS	
TWY AND APRON	

NO MARKING AIDS ON THE RWY

AD 2. AERODROMES

HCMK AD 2.1 AERODROME LOCATION INDICATOR AND NAME

HCMK — KISMAYO International Airport

HCMK AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

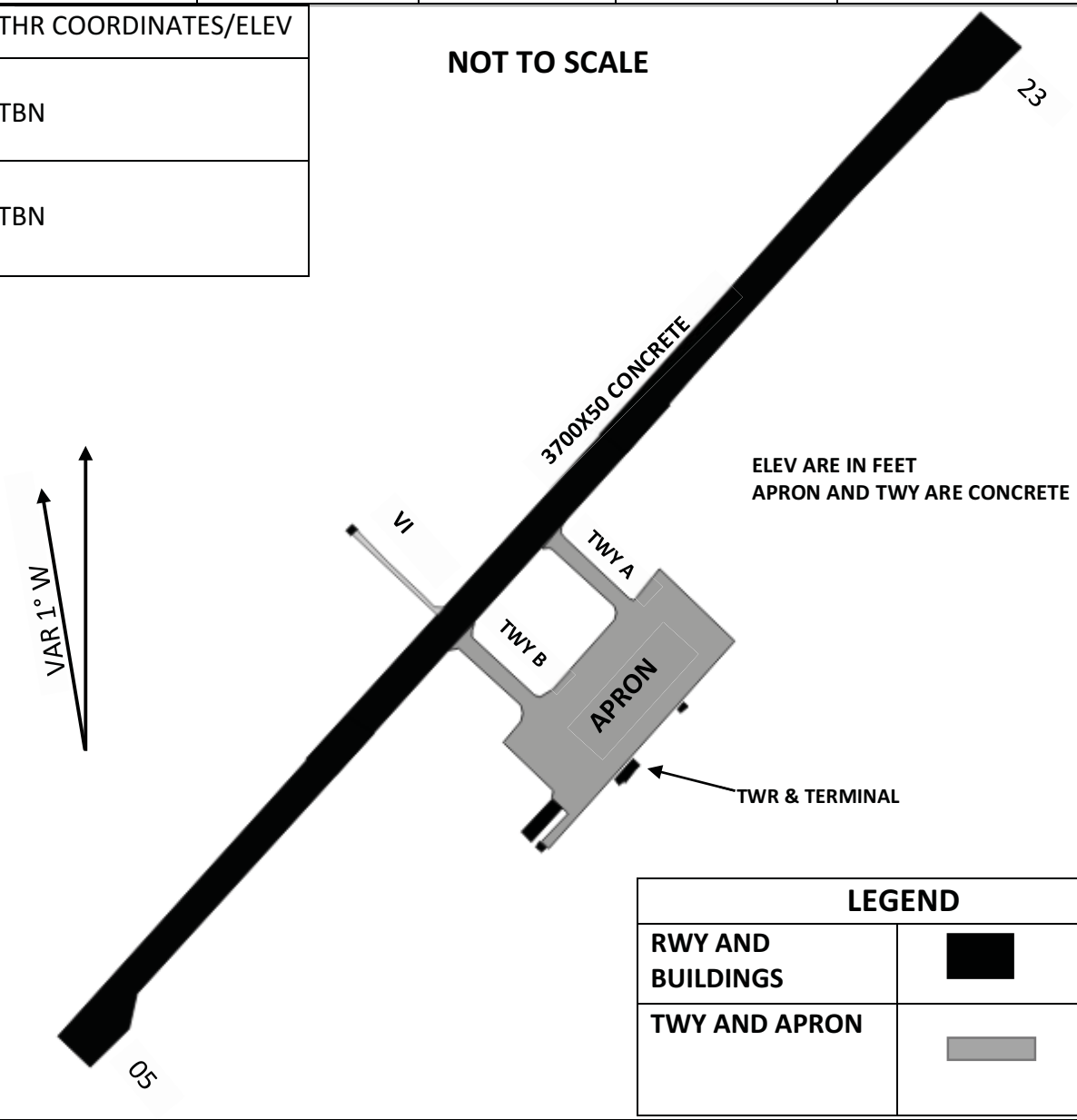
Aerodrome Name, ARP coordinate, AD Elevation, Transition Altitude	**RWY Physical Characteristics, TWY and apron**	**Hours of Operations**	**Available Services**	**Remarks**
Kismayo INTL Airport ARP: 002245S0422830E* ELEV: 49ft* TA:3000 ft Location: 9.73KM west of the City	RWY Data Designation: RWY 05/23 True Bearing: 050°/230°* Dimensions: 3700 x 50* Surface: Concrete TORA TODA ASDA LDA } 3700 TWY Width: 25M* Surface: Concrete Apron Surface: Concrete	0330-1400 UTC Daily	Administration, Immigration and Customs	Authority Supervising the Aerodrome is Somalia Civil Aviation and Meteorology Authority (SCAMA).

Note___ Aeronautical data marked with asterisk (*) indicate WGS-1984 ground survey has not been undertaken for the concerned airport. Coordinates have been derived using non survey methods.

AERODROME CHART	ARP 002245S 0422830E *	APRON ELEV 49 FT	TWR 132.5	KISMAYO Intl

RWY	THR COORDINATES/ELEV
05	TBN
23	TBN

NOT TO SCALE



LEGEND	
RWY AND BUILDINGS	
TWY AND APRON	

NO MARKING AIDS