

TEL : +218 21 360 55630 – 35
 FAX : +218 21 3605322
 Web Site : www.caa.gov.ly/ais/
 Email : ais@caa.gov.ly

STATE OF LIBYA
 Civil Aviation Authority
 Aeronautical Information Service
 P.O. Box 97602
 Gaser Ben Gashir Post Office, Tripoli, Libya

AIRAC
AIP
 Amendment 01/23
 24 AUG 2023

Effective date : 05 OCT 2023

1- This AIRAC AIP AMDT Contains:

- Checklist of AIP pages:
- Air space classification :
- Changes in significant points:
- Implementation of new point KUTAB:
- Changes in ATS routs:
- New instrument HLLM approach chart ILS LOC for RWY 28
- Update Coordinates :
- New instrument HLMS approach chart ILS LOC for RWY 33
- New WPTs
- Up date and charts HLLM:
- Up date and charts HLMS

2 - Insert and destroy the following pages :

Pages to be Inserted	Date	Pages to be destroyed	Date
GEN 0.4-1 / 0.4-2 0.4-3 / ILB 1.7-1 / 1.7-2 3.5-3 / ILB 3.2-3 / 3.2-4	05 OCT 23 / 05 OCT 23	GEN 0.4-1 / 0.4-2 0.4-3 / ILB 17.1-1 / 1.7-2 3.5-3 / ILB 3.2-3 / 3.2-4	20 JUN 23 / 20 JUN 23 20 JUN 23 / ILB 17 JUN 21 / 20 SEP 12 21 OCT 10 / ILB 17 JUN 21 / 17 JUN 21
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3- At the effective date, record entry of this AIRAC AIP AMDT on page GEN 0.2

4- This AIRAC AIP AMDT incorporates the informations contained in the following AIP Supplements and NOTAM which are hereby cancelled:

AIP SUP NIL
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GEN 0.4 - CHECKLIST OF AIP PAGES

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GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES

in general, Libya regulations rules and procedures are in conformity with ICAO SARPS, PANS-, ATM and regional supplementary procedures except in the cases indicated hereunder (all differences have been registered with ICAO)

1. ANNEX 1 - PERSONNEL LICENSING (10th Edition)

Nil

2. ANNEX 2 - RULES OF THE AIR (10th Edition)

Reference Chapter 2

Para2.1.1 The International Rules of the Air as amended below shall apply to all aircraft within the territory of Libya.

para2.3.1 The pilot-in-command of an aircraft shall, whether manipulating the controls or not, be responsible for operating the aircraft in accordance with the rules of the air. He may depart from the rules in circumstances that render such a departure necessary in the interest of safety, but when doing so, he shall inform the appropriate ATS unit and as soon as practicable submit a written report to the Civil Aviation Authority.

Chapter 3

Para3.3.1 Submission of a Flight Plan information relative to an intended flight or portion of a flight shall be in the form of a Flight Plan.

Para3.3.1.2 Flight Plan shall be submitted for any flight or portion of flight within the territory of Libya.

Para3.3.1.3 Flight plan shall be submitted before departure. For domestic flights originating at an aerodrome not connected to the AFTN, essential flight details

shall be communicated before departure to the ACC at TRI-POLI or BENGHAZI by any available means (e.g. TELEFAX, E-MAIL). Compliance with this procedure must, for the time being, be regarded as mandatory.

3. ANNEX 3 -

METEOROLOGY (17th Edition)

Nil

4. ANNEX 4 -

AERONAUTICAL CHARTS (11th Edition)

Nil

5. ANNEX 5 -

UNITS OF MEASUREMENT TO BE USED IN AIR AND GROUND OPERATIONS

(5th Edition)

Nil

6. ANNEX 6 -

OPERATION OF AIRCRAFT

VOL. I (9th Edition), VOL. II (7th Edition),

VOL. III (7th Edition)

Nil

7. ANNEX 7 -

AIRCRAFT NATIONALITY AND REGISTRATION MARKS (5th Edition)

Nil

8. ANNEX 8 -

AIRWORTHINESS OF A/C (11th Edition)

Nil

9. ANNEX 9 -

FACILITATION (13th Edition)

Reference Difference

Para2.4 The general declaration is required as an essential document.

Para2.5 Presentation of passenger manifest continues to be required.

Para2.6.2 Full name and surnames of passengers are required.

Para2.11 Presentation of three copies of the passenger manifest are required.

Para2.14 Same as 2.1 1 .

Para2.19 Under consideration.

Para2.30	Prior permission is required in accordance with current regulations published in AIP Libya, GEN 1.4-1.	1.1 Air Traffic Control Clearance An Air Traffic Control Clearance shall be obtained from the appropriate Air Traffic Control Unit. Note: Separation between VFR flights is only provided when those flights constitute aerodrome traffic. Clearances are issued to provide separation between VFR flights and IFR flights or military traffic flying under special conditions.
Para2.31	Not applicable at present.	
Para3.8.3	Resident aliens must hold re-entry visas.	
Para3.9	Information supplementary to those presented in the passports are required to be written on the E/D card, which differs slightly in terms from that shown in Appendix 4.	
Para 4.19	Certain consular formalities are required.	
Para4.38	Admittance of air lines documents are duty-free on reciprocal treatment basis.	
Para4.44	All imported animals must be accompanied by a certificate of sanitary inspection.	
Para6.47	Such arrangements are not justified for the moment.	
Para8.2	The provisions of Civil Aviation Law no 6 for the year 2005 are applicable.	
10.	ANNEX10- AERONAUTICALTELECOMMUNICATIONS VOL. I (6th Edition), VOL. II (6th Edition), VOL.III(2ndEdition), VOL.IV(4thEdition), VOL. V (2nd Edition)	
	Nil	
11.	ANNEX11- AIR TRAFFIC SERVICES (13thEdition)	
Reference Chapter 2	Difference	
Para2.5.2.2	Aircraft equipped and manned For IFR flights shall irrespective of prevailing weather conditions -conduct all flights within terminal control areas and control zones in accordance with IFR unless otherwise permitted by the appropriate ATS unit. Other aircraft shall conduct flight in accordance with VFR and the special procedures in paragraph 1 below:	
12.	ANNEX 12- SEARCH AND RESCUE (8th Edition)	Nil
13.	ANNEX13- AIRCRAFT ACCIDENT INVESTIGATION (10th Edition)	Nil
14.	ANNEX14- AERODROMES VOL.I(5th Edition), HELIPORTS VOL.II(3rd Edition)	Nil
15.	ANNEX15- AERONAUTICAL INFORMATION SERVICES (16th Edition AMDT41)	
Reference Chapter 5	Difference	Remarks
5.3.4.2	Aerodrome mapping data sets are not made available policy for aerodromes regularly used by international	Libya is working towards developing compliance with the aerodrome mapping data sets requirements
Chapter 5 5.3.5.2	Instrument flight procedure data sets are not made available for aero-compliance with the dromes regularly used by internati-procedure data sets	Libya is working towards developing compliance with the instrument flight requirements

LIST OF CHART SERIES

Title of Series	Scale	Name	Number	Price per sheet	Date
World Aeronautical Chart - ICAO (WAC)	1 : 1,000,000	ONC G2 ONC G3 ONC H3 ONC H4 ONC J3 ONC J4 ONC J5			19 OCT 95 27 JUL 98 3 APR 84 16 NOV 98 23 AUG 88 27 JAN 00 8 JAN 88
Aeronautical Chart Libya - ICAO	1 : 500,000		HL-1 HL-2 HL-3 HL-4 HL-5 HL-6 HL-7 HL-8 HL-9 HL-10 HL-11 HL-12 HL-13 HL-14		Edition 2012
Instrument Approach & Landing Chart - ICAO (IAC)	BENGHAZI/Benina Intl				
	1 : 350,000	VOR ILS DME RWY 33L	AD 2 HLLB-25	in AIP	20 SEP 12
	1 : 250,000	VOR DME RWY 15L/R	AD 2 HLLB-27	in AIP	20 SEP 12
		VOR DME RWY 33L/R	AD 2 HLLB-29	in AIP	20 SEP 12
		Locator RWY 15L/R	AD 2 HLLB-31	in AIP	20 SEP 12
		Locator RWY 33L/R	AD 2 HLLB-33	in AIP	20 SEP 12
	EL BEIDA/Labraq				
	1 : 250,000	NDB ILS DME RWY 28	AD 2 HLLQ-9	in AIP	20 SEP 12
		NDB RWY 10	AD 2 HLLQ-11	in AIP	20 SEP 12
		NDB RWY 28	AD 2 HLLQ-13	in AIP	20 SEP 12
	GHADAMES/Ghadames				
	1 : 250,000	VOR DME RWY 06	AD 3 HLTD-9	in AIP	20 SEP 12
		VOR DME RWY 24	AD 3 HLTD-11	in AIP	20 SEP 12
		NDB RWY 06	AD 3 HLTD-13	in AIP	20 SEP 12
		NDB RWY 24	AD 3 HLTD-15	in AIP	20 SEP 12
	GHAT/Ghat				
	1 : 200,000	VOR DME RWY 17	AD 3 HLGT-9	in AIP	20 SEP 12
		VOR DME RWY 35	AD 3 HLGT-11	in AIP	20 SEP 12
		NDB RWY 17	AD 3 HLGT-13	in AIP	20 SEP 12
	KUFRA/Kufra				
	1 : 200,000	VOR DME RWY 02	AD 2 HLKF-9	in AIP	20 SEP 12
		VOR DME RWY 20	AD 2 HLKF-11	in AIP	20 SEP 12
	MISRATA/Misrata Intl				
	1 : 250,000	VOR DME RWY 15	AD 2 HLMS-9	In AIP	20 SEP 12
		VOR DME RWY 33	AD 2 HLMS-11	In AIP	20 SEP 12
		ILS LOC RWY 33	AD 2 HLMS-13	In AIP	05 OCT 23
	SEBHA/Sebha Intl				
	1 : 250,000	ILS DME RWY 13	AD 2 HLLS-23	in AIP	12 DEC 13
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	TOBRUK/Tobruk				
	1 : 200,000	VOR DME RWY 02	AD32 HLTQF-99	in AIP	17 JUN 21
		VOR DME RWY 20	AD32 HLTQ-11	in AIP	17 JUN 21

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Title of Series	Scale	Name	Number	Price per sheet	Date
Instrument Approach & Landing Chart ICAO (IAC)	SIRTE / Ghardabiya Intl				
	1 : 250,000	VOR ILS DME RWY 36	AD 2 HLGD-9	in AIP	20 SEP 12
		VOR DME RWY 18	AD 2 HLGD-11	in AIP	20 SEP 12
		VOR DME RWY 36	AD 2 HLGD-13	in AIP	20 SEP 12
	TRIPOLI / Tripoli Intl				
	1 : 250,000	ILS DME RWY 27	AD 2 HLLT-33	in AIP	20 SEP 12
		VOR DME RWY 09	AD 2 HLLT-35	in AIP	20 SEP 12
		VOR DME RWY 27	AD 2 HLLT-37	in AIP	20 SEP 12
		Locator RWY 09	AD 2 HLLT-39	in AIP	20 SEP 12
		Locator RWY 27	AD 2 HLLT-41	in AIP	20 SEP 12
	TRIPOLI / Mitiga Intl				
	1 : 250,000	DVOR DME RWY 10	AD 2 HLLM -9	in AIP	13 AUG 20
		DVOR DME RWY 28	AD 2 HLLM -11	in AIP	13 AUG 20
		ILS LOC RWY 28	AD 2 HLLM -13	In AIP	05 OCT 23
Standard Departure Chart Instrument ICAO (SID)	BENGHAZI / Benina Intl				
	1 : 790,000	SID C RWY 15L/R	AD 2 HLLB-13	in AIP	20 SEP 12
	1 : 790,000	SID C RWY 33L/R	AD 2 HLLB-15	in AIP	20 SEP 12
	Sebha / Sebha Intl				
	1 : 790,000	SID C RWY 13	AD 2 HLLS-11	in AIP	20 SEP 12
	1 : 790,000	SID C RWY 31	AD 2 HLLS-13	in AIP	20 SEP 12
	TRIPOLI / Tripoli Intl				
	1 : 1,000,000	SID C RWY 09	AD 2 HLLT-17	in AIP	20 SEP 12
	1 : 1,000,000	SID C RWY 27	AD 2 HLLT-21	in AIP	20 SEP 12
	BENGHAZI / Benina Intl				
Standard Arrival Chart Instrument ICAO (STAR)	1 : 790,000	STAR A RWY 15L/R	AD 2 HLLB-17	in AIP	20 SEP 12
	1 : 790,000	STAR B RWY 15L/R	AD 2 HLLB-19	in AIP	20 SEP 12
	1 : 790,000	STAR D RWY 33L/R	AD 2 HLLB-21	in AIP	20 SEP 12
	1 : 790,000	STAR E RWY 33L/R	AD 2 HLLB-23	in AIP	20 SEP 12
	Sebha/Sebha Intl				
	1 : 790,000	STAR A RWY 13	AD 2 HLLS-15	in AIP	20 SEP 12
	1 : 790,000	STAR B RWY 13	AD 2 HLLS-17	in AIP	20 SEP 12
	1 : 790,000	STAR D RWY 31	AD 2 HLLS-19	in AIP	20 SEP 12
	1 : 790,000	STAR E RWY 31	AD 2 HLLS-21	in AIP	20 SEP 12

4. TYPES OF SERVICE

- 4.1- Climatological summaries for synoptic stations are available from the NMC. Briefing and flight documentations are provided at the Briefing Offices at Benina, Tripoli and Mitiga airports at any time (24 hours), while at other airports notification from operators concerning the briefing documentation and meteorological information needed should be requested at least 3 hours before the estimated time of departure.
- Any other services could be on bilateral agreement with the NMC.
- 4.2 The Pilot-in-command is given personal briefing by a Meteorologica Officer. Flight Documentation normally includes:
- .Upper level charts
 - .Departure - destination aerodrome reports .
 - .and forecasts as well as alternates.
- 4.3 Unless otherwise agreed, the forecast will be ready one hour before the stated time of departure.
- 4.4 Tripoli FIR Upper Air Information "Wind and Temperature" are provided by NMC on request

5. NOTIFICATION REQUIRED FROM OPERATORS

For non-scheduled flights, notification from operators concerning briefing, flight documentation and other meteorological information needed is required:

- a) At least 2 hours before the estimated time of departure from Benina, Mitiga and Tripoli airports.
- b) At least 3 hours before the estimated time of departure from the other airports.

6. AIREP REQUIRED FROM OPERATORS

According to Annex 3, Chapter 5-the preparation and transmission of aircraft observations (AIREP) is to be reported at the reporting points given below:

1. ABU ARGUB VOR/DME
2. ARRIG
3. BENINA VOR/DME
4. BONAR
5. DAHRA VOR
6. DEKTU
7. DITAR
8. GARIN
9. GHADAMES VOR/DME
10. GHAT DVOR/DME
11. INDOT
12. KUFRA VOR/DME
13. LOSUL
14. MITIGA DVOR
15. ORNAT
16. PUFER
17. RAMLI
18. RASNO

19. SARIR NDB

20. SARKI

21. SEBHA VOR/DME

22. TONBA

23. TUMMO

7. VOLMET SERVICE

Nil.

8. SIGMET AND WARNING SERVICES

- 8.1 The NMC maintains a continuous a weather watch and warning service within Tripoli FIR and issues SIGMETs, as well as warnings for the respective aerodromes.

The SIGMET messages are to be issued at occurrence or expected occurrence of any significant phenomena in abbreviated plain language in accordance with Annex 3.

- 8.2 The NMC issues warnings for respective aerodromes whenever weather phenomena specified in Annex 3 are occurring or are expected to occur to the aerodrome.

9. OTHER AUTOMATED METEOROLOGICAL SERVICE

Nil

10. METEOROLOGICAL PRODUCTS

- Aeronautical meteorological information for aviation received via SADIS, RETIM AFRICA, RETIM EUROPE, CADAS, Transmet and MSG.
- Local aeronautical meteorological Information: METAR, SPACI, TAF, Warnings, SIGMETs and Local significant Weather Charts are issued by NMC using AUTOMATIC WEATHER STATIONS, MSG, RETIMA FRICA, RETIM EUROPE, WEATHER RADARS and different kinds of models such as ARPEG, ALADIN, ECMWF.
- Wind and Temperature Charts for all isobaric levels: FL050 - FL100 - FL140 - FL180 - FL240 - FL300 - FL340 - FL390 - FL450 - FL530.
- Significant Weather Charts including standard flight level boundaries valid for affixed time and date.
- Aerodrome TAFS (FC - FT), METARs, SPECI, Warnings & SIGMETs.

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ENR 2. AIR TRAFFIC SERVICES AIRSPACE

ENR 2.1 FIR, UIR, TMA and CTA

Name Lateral and vertical Limits	Unit Providing Service	Call Sign/Language Area and Condition of use Hours of Operation	Frequency/ Purpose	Remarks
1	2	3	4	5
TRIPOLI FIR N342000 E0113000 N342000 E0233500 N340000 E0241000 N314100 E0250800 N220000 E0250000 N200000 E0250000 N200000 E0240000 N193000 E0240000 N220000 E0190000 N220000 E0113000 to Western Border Libya along Western Border Libya to N322200 E0113000 N342000 E0113000 <u>UNL</u> SFC Class of airspace: Class A FL195 / FL660 Class C SFC or MEL/FL195 Class F In Advisory Routes Class G FL660 / UNL or outside ATS Routes and below MEL (Excluding TMAs-CTAs and CTRs)	TRIPOLI FIC TRIPOLI ACC BENGHAZI ACC	TRIPOLI INFORMATION TRIPOLI CONTROL BENGHAZI CONTROL ENGH24	11300 KHz 5517 KHz 120.900 MHz 128.400 MHz 129.200 MHz 126.500 MHz	TRIPOLI Tel.: 00218-213619614 00218-213619380
BENGHAZI TMA A Circle 105 NM radius centered on Benina ARP N320548.50 E0201610.42 Class of airspace: Class A FL195 / FL660 Class C 4500FT GND-MSL/ FL195	BENGHAZI ACC	BENGHAZI CONTROL ENG H24	129.200 MHz 126.500 MHz	Emergency Frequency Available
SEBHA CTA A circle 65NM radius centered on SEBHA ARP N265913.32 E0142821.30 Class of airspace: Class C 3000ft GND /FL195	SEBHA TWR APP	SEBHA TOWER ENG H24	119.1 MHz 121.9 MHz	TRIPOLI , BENGHAZI & SEBHA 121.500 MHz
TRIPOLI TMA A Circle 41 NM radius centered on Tripoli ARP N 323948.92 E0130932.98 Class of airspace: Class A FL195 / FL660 Class C 2000FT GND-MSL/ FL195	TRIPOLI ACC TRIPOLI APP	TRIPOLI CONTROL TRIPOLI APPROACH ENG H24	120.9 MHz 128.4 MHz 124.0 MHz	
UIR: NIL				

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ENR 3. ATS ROUTES

3.1 LOWER ATS ROUTES

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
A18							
▲ KADRA NDB KDR N322200E0133700	209° 029°	12	FL660 FL195 CLASS A				Tripoli Control VHF 120.9 MHz VHF 128.4 MHz
△ RYHAN N321200E0133000	207° 027°	22	FL195 FL065 CLASS C	10			
△ TAWUS N315218E0131736	208° 028°	29					
▲ MIZDA VOR/DME IZD N312709E0130038	221° 041°	68					Tripoli INFORMATION HF 11300 HF 5517
▲ FUNGI N303636E0120824	220° 040°	65	FL660 FL065 CLASS F	20			
▲ DERJE N294742E0111900	219° 039°	135					only advisory service is provided in this portion of the route
■ ZARZAITINE VOR/DME IMN N280412E0093954							
A403							
▲ GHERIAT NDB GRT N302341E0133509			FL660 FL195 CLASS A	10			Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ SHATI N280000E0141236	165° 345°	145	FL195 FL065 CLASS C				Sebha Tower VHF119.1MHz
▲ BOXAL N273000E0142012	166° 346°	33					
■ SEBHA VOR/DME SEB N265944E0142735		31					Tripoli INFORMATION HF 11300 HF 5517
▲ TAJAR N242200E0143436	176° 356°	157	FL660 FL065 CLASS F	20			
■ TUMMO (FIR BDRY) N220000E0144020	177° 357°	142					only advisory service is provided in this portion of the route

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
A411 ▲ TANLI (FIR BDRY) N332938E0113000							
▲ REXOS N331700E0120800	<u>111°</u> 291°	34					Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ DERKA N330900E0132202	<u>097°</u> 277°	63					
▲ KAVOX N325700E0145603	<u>098°</u> 278°	79					
▲ GARUS N324000E0170000	<u>099°</u> 279°	106	FL660 FL195 CLASS A	10			BENGHAZI CONTROL VHF129.2MHz VHF 126.5MHz
▲ PEBAN N324000E0180500	<u>087°</u> 267°	55					
▲ BENINA VOR/DME BNA N320728E0201513	<u>103°</u> 283°	115	FL195 FL065 CLASS C				
▲ MKILY N315900E0222000	<u>091°</u> 271°	106					
▲ TOKBU N315112E0235518	<u>092°</u> 272°	81					
▲ LOSUL (FIR BDRY) N314100E0250800	<u>099°</u> 279°	64					Tripoli INFORMATION HF 11300 HF 5517

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
A420							
▲ TANLI (FIR BDRY) N332938E0113000							
△ FARWA N330000E0121812	<u>124°</u> 304°	50					Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ ZAWIA VOR/DME ZAW N324643E0123847	<u>126°</u> 306°	22					
▲ TRIPOLI VOR/DME TPI N323947E0130706	<u>106°</u> 286°	25	<u>FL660</u> <u>FL195</u> CLASS A	10			
▲ MISRATA VOR/DME MIS N321852E0150440	<u>099°</u> 280°	102					
▲ YAQUT N321300E0170000	<u>091°</u> 271°	98	<u>FL195</u> <u>FL065</u> CLASS C				
▲ HAMOR N320900E0182400	<u>091°</u> 271°	71					BENGHAZI CONTROL VHF 129.2MHz VHF 126.5MHz
▲ BENINA VOR/DME BNA N320728E0201513	<u>088°</u> 268°	94					

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	<u>Upper Limit</u> <u>Lower Limit</u> Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
B21							Malta ACC VHF130.975 MHz DEGLI - INDOT ONE WAY NORTHBOUND ONLY. BENGHAZI CONTROL VHF 129.2MHz VHF 126.5 MHz Tripoli INFORMATION HF 11300 HF 5517 only advisory service is provided in this portion of the route
▲ INDOT (FIR BDRY) N342000E0165653	<u>147°</u> <u>327°</u>	23					
▲ OKLIR N340000E0171049		54	FL660 FL195 CLASS A	10			
▲ DEGLI N331248E0174312	<u>148°</u> <u>328°</u>	38	FL195 FL065 CLASS C				
▲ PEBAN N324000E0180500	<u>149°</u> <u>329°</u>	35					
△ HAMOR N320900E0182400	<u>147°</u> <u>327°</u>	32					
▲ BOURI N314124E0184259	<u>147°</u> <u>327°</u>	88					
▲ MARSA BREGA NDB MB N302506E0193421	<u>148°</u> <u>328°</u>	143					
▲ DAYFA N281918E0205236	<u>150°</u> <u>330°</u>	48					
△ KARUB N273524E0211524	<u>148°</u> <u>328°</u>	234	FL660 FL065 CLASS F	20			
▲ KUFRA VOR/DME KFR N240914E0231828	<u>156°</u> <u>336°</u>	266					
▲ ORNAT (FIR BDRY) N200000E0250000							

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
B727 ▲ TOKBU N31511E0235518							
▲ LABRAQ NDB LAB N324641E0220113	296° 116°	111	FL660 FL195 CLASS A				BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz
▲ BENINA VOR/DME BNA N320728E0201513	243° 063°	98	FL195 FL065 CLASS C				
▲ BOURI N314124E0184259	249° 069°	83		10	↑		Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ CILBA N311800E0172400	249° 069°	71					
▲ SIRTE VOR/DME SRT N310333E0163553	248° 068°	44					
▲ TAMIT N304412E0154654	244° 064°	46					Tripoli INFORMATION HF 11300 HF 5517
△ ALBEY N302600E0150000	244° 064°	44					
▲ SWIRF N295300E0134300	244° 064°	74					
▲ HAMRA N293200E0125000	244° 064°	52					
▲ NGIRT N285200E0112700	244° 064°	82					
▲ ZARZAITINE VOR/DME IMN N280400E0093939	244° 064°	106	FL660 FL065 CLASS F	20			Only advisory service is provided in this portion of the route

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency										
					Odd	Even											
G655 ▲ FARES (FIR BDRY) N320949E0105652	$\frac{144^\circ}{324^\circ}$	65	FL660 FL195 CLASS A	10			Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz										
							Route not available when HL(R)-31 is active										
							Tripoli INFORMATION HF 11300 HF 5517										
							Sebha Tower VHF119.1MHZ										
							Only advisory service is provided in this portion of the route										
G858 ▲ SEBHA VOR/DME SEB N265944E0142735	$\frac{152^\circ}{332^\circ}$	175	FL660 FL125 CLASS F	20			Tripoli INFORMATION HF 11300 HF 5517										
▲ ELGAN N2425000E0153754		144															
▲ GARIN (FIR BDRY) N220000E0170636		188															
▲ SEBHA VOR/DME SEB N265944E0142735	$\frac{198^\circ}{018^\circ}$	150	FL660 FL065 CLASS F	20			Tripoli INFORMATION HF 11300 HF 5517										
▲ SAHRA N243812E0133100																	
▲ DEKTU (FIR BDRY) N220000E0122806	$\frac{199^\circ}{019^\circ}$	168															
It is mandatory Foroperators to flight plan this route at FL320 or belowdue to flight level allocation scheme applicable between Tripoli ACC and N'djamena ACC																	
Only advisory service is provided in this route																	

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
J615 ▲ MITIGA DVOR/DME MTG N325337E0131622							Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ KADRA NDB KDR N322200E0133700	149° 329°	36		10			
▲ BENI WALID VOR/DME WLD N314657E0140034	148° 328°	40					
△ NJEIM N305536E0152736	124° 304°	90	FL660 FL195 CLASS A				
▲ TAMIT N304412E0154654	122° 302°	20					
▲ TILAL N302448E0162100	121° 301°	35	FL195 FL065 CLASS C				
▲ DERNI N301328E0164015	122° 302°	20					
▲ DAHRA VOR/DME DHR N292803E0175554	122° 302°	80					
▲ LEBKO N284908E0193736	111° 291°	97					
▲ DAYFA N281918E0205236	112° 292°	72					
▲ SARIR NDB GS N273900E0223000	112° 292°	95					
J622 ▲ BENI WALID VOR/DME WLD N314657E0140034							Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ NAMWA N312542E0151824	107° 287°	70	FL660 FL195 CLASS A	10			
▲ SIRTE VOR/DME SRT N310333E0163553	106° 286°	70	FL195 FL065 CLASS C				

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
J725 ▲ MISRATA VOR/DME MIS N321852E0150440	<u>166°</u> 346°	54	<u>FL660</u> <u>FL195</u> CLASS A			↑	Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ NAMWA N312542E0151824	<u>163°</u> 343°	31	<u>FL195</u> <u>FL065</u> CLASS C	10		↓	Tripoli INFORMATION HF 11300 HF 5517
△ NJEIM N305536E0152736	<u>165°</u> 345°	110					MIS - HON AVAILABLE FOR HON -MIS ARRS/DEPS ONLY.
▲ HON NDB HON N290800E0155700							
J730 ▲ NAGDA N321500E0162328	<u>170°</u> 350°	32	<u>FL660</u> <u>FL195</u> CLASS A			↓	Tripoli CONTROL VHF 120.9MHz VHF 128.4MHz
▲ LABAX N314304E0162801	<u>169°</u> 349°	40	<u>FL195</u> <u>FL065</u> CLASS C	10		↓	NAGDA- SRT ONE WAY SOUTHBOUND ONLY.
▲ SIRTE VOR/DME SRT N310333E0163553	<u>196°</u> 016°	41			↑		SRT -HON AVAILABLE FOR HLGD, HLON ARRS/ DEPS ONLY.
▲ TILAL N302448E0162100	<u>193°</u> 013°	79			↓		
▲ HON NDB HON N290800E0155700							
J850 ▲ SEBHA VOR/DME SEB N265944E0142735							Sebha Tower VHF119.1MHz
▲ HORUJ N270906E0161442	<u>082°</u> 262°	96	<u>FL660</u> <u>FL065</u> CLASS F	20		↓	Only advisory service is provided in this route
▲ MASIT N272816E0194016	<u>081°</u> 261°	184					
▲ ARRIG N272930E0200112	<u>084°</u> 264°	19					
▲ KARUB N273524E0211524	<u>082°</u> 262°	66					
▲ SARIR NDB GS N273900E0223000	<u>084°</u> 264°	66					

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
J855 ▲ DAHRA VOR/DME DHR N292803E0175554 ▲ HON NDB HON N290800E0155700	<u>258°</u> 078°	106	FL660 FL195 CLASS A FL195 FL065 CLASS C	10	↑	↓	Tripoli INFORMATION HF 11300 HF 5517
J977 ▲ GHADAMES VOR/DME GAD N300949E0094429 ▲ TAZIT N255624E0115418	<u>154°</u> 334°	278	FL660 FL195 CLASS A	10	↓	↑	Tripoli INFORMATION HF 11300 HF5517
J980 ▲ GHADAMES VOR/DME GAD N300949E0094429 ▲ NAFUS N304436E0110954 ▲ MIZDA VOR/DME IZD N312709E0130038	<u>063°</u> 243° <u>064°</u> 244°	82 104	FL660 FL195 CLASS A FL195 FL065 CLASS C	10	↓	↑	Tripoli INFORMATION HF 11300 HF 5517 GAD - IZD AVBL FOR HLTD ARR/DEP.

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
R2 ▲ BENINA VOR/DME BNA N320728E0201513 ▲ ARADA N304636E0213348 ▲ DITAR (FIR BDRY) N265903E0250000	$\frac{137^\circ}{317^\circ}$	105	FL660 FL195 CLASS A FL195 FL065 CLASS C	10	↓	↑	BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5MHz Tripoli INFORMATION HF 11300 HF 5517
R778 ▲ TONBA (FIR BDRY) N213518E0195112 ▲ KUFRA VOR/DME KFR N240914E0231828 ▲ DITAR (FIR BDRY) N265903E0250000	$\frac{048^\circ}{228^\circ}$ $\frac{025^\circ}{205^\circ}$	245 193	FL660 FL245 CLASS F	10	↓	↑	Kufra Tower VHF 121.9MHz Tripoli INFORMATION HF 11300 HF 5517 Only advisory service is provided in this route
R845 ▲ GASRI (FIR BDRY) N335609E0113000 ▲ REXOS N331700E0120800 ▲ ZAWIA VOR/DME ZAW N324643E0123847 ▲ SAKKR N321201E0124800 ▲ MIZDA VOR/DME IZD N312709E0130038 ▲ GHERIAT NDB GRT N302341E0133509	$\frac{139^\circ}{319^\circ}$ $\frac{138^\circ}{318^\circ}$ $\frac{164^\circ}{344^\circ}$ $\frac{164^\circ}{344^\circ}$ $\frac{154^\circ}{334^\circ}$	50 40 35 47 70	FL660 FL195 CLASS A FL195 FL065 CLASS C	10	↓	↑	Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
V200 ▲ SOLUN N325912E0170000	$\frac{264^\circ}{084^\circ}$	97	FL660 FL195 CLASS A		↑	↓	Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ IVAKI N325530E0150618	$\frac{264^\circ}{084^\circ}$	51	FL195 FL065 CLASS C				
▲ BREAM N325330E0140500							
V400 ▲ TRIPOLI VOR/DME TPI N323947E0130706	$\frac{087^\circ}{267^\circ}$	44					Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ KHOMS N324024E0135912	$\frac{087^\circ}{267^\circ}$	103	FL660 FL195 CLASS A		↑	↑	
▲ CIBIA N324012E0160112	$\frac{088^\circ}{268^\circ}$	50		10			
▲ GARUS N324000E0170000	$\frac{087^\circ}{267^\circ}$	55					
▲ PEBAN N324000E0180500	$\frac{084^\circ}{264^\circ}$	74	FL195 FL065 CLASS C				BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz
△ ATOLL N324500E0195454	$\frac{085^\circ}{265^\circ}$	19			↓		
▲ WHALE N324436E0203300	$\frac{088^\circ}{268^\circ}$	32					
▲ LABRAQ NDB LAB N324641E0220113	$\frac{085^\circ}{265^\circ}$	74					

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
V500							
▲ MISRATA VOR/DME MIS N321852E0150440	<u>271°</u> 091°	55	FL660 FL195 CLASS A				Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
△ MAGNA N322130E0140000	<u>270°</u> 090°	19					
▲ KADRA NDB KDR N322200E0133700	<u>282°</u> 102°	23	FL195 FL065 CLASS C	10			
▲ ABU ARGUB VOR/DME ABU N322746E0131010	<u>306°</u> 126°	33					
▲ ZAWIA VOR/DME ZAW N324643E0123847	<u>288°</u> 108°	33					
▲ ZWARA NDB ZAR N325707E0120122							
V600							
▲ ABU ARGUB VOR/DME ABU N322746E0131010	<u>133°</u> 313°	23	FL660 FL195 CLASS A				Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
△ RYHAN N321200E0133000							
▲ BENI WALID VOR/DME WLD N314657E0140034	<u>132°</u> 312°	36	FL195 FL065 CLASS C	10			

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
V700							
▲ ABU ARGUB VOR/DME ABU N322746E0131010		36	FL660 FL195 CLASS A	10		↑	Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ TAWUS N315218E0131736	169° 349°	90	FL195 FL065 CLASS C		↓		
▲ GHERIAT NDB GRT N302341E0133509							
V800							
▲ ABU ARGUB VOR/DME ABU N322746E0131010	187° 007°	20	FL660 FL195 CLASS A	10	↑		Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
△ GWASM N320800E0130700	186° 006°	41					
▲ MIZDA VOR/DME IZD N312709E0130038	184° 004°	115	FL195 FL065 CLASS C				
▲ HAMRA N293200E0125000	180° 360°	82					
▲ WANIN N281000E0124800	180° 360°	94					
▲ UBARI NDB UBR N263552E0124648	180° 360°						

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
V900 ▲ ABU ARGUB VOR/DME ABU N322746E0131010							Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ SAKKR N321201E0124800	<u>231°</u> 051°	24	FL660 FL195 CLASS A				
▲ SINAW N310600E0110600	<u>231°</u> 051°	109	FL195 FL065 CLASS C	10			V900 is Available for Domestic flights only.
▲ GHADAMES VOR/DME GAD N300949E0094429	<u>231°</u> 051°	90					
V950 ▲ REXOS N331700E0120800							
△ UKSAG N330448E0124530	<u>111°</u> 291°	34	FL660 FL195 CLASS A				
▲ CONCH N325929E0130134	<u>112°</u> 292°	13					
▲ MITIGA DVOR/DME MTG N 325337E0131622	<u>089°</u> 269°	15					
▲ NOSRO N325324E0133148	<u>090°</u> 270°	13	FL195 FL065 CLASS C	10			Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
△ BREAM N325330E0140500	<u>093°</u> 273°	28					
▲ GARUS N324000E0170000	<u>091°</u> 271°	148					

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
W853							
▲ MIZDA VOR/DME IZD N312709E0130038							Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ EBITO N301222E0122407							
▲ ORBEL N282236E0113218							Tripoli INFORMATION HF 11300 HF 5517
▲ GHAT DVOR/DME GHT N250933E0100823							
W854							
▲ BENI WALID VOR/DME WLD N314657E0140034							Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ HON NDB HON N290800E0155700							Sebha Tower VHF119.1MHz
▲ ALGAF N281000E0151600							
▲ SEBHA VOR/DME SEB N265944E0142735							Tripoli INFORMATION HF 11300 HF 5517

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
W858							
▲ GHADAMES VOR/DME GAD N300949E0094429							
▲ WANIN N281000E0124800	<u>125°</u> 305°	200	FL660 FL195 CLASS A	10			Tripoli INFORMATION HF 11300 HF 5517
▲ AGAAR N271824E0140000	<u>125°</u> 305°	82	FL195 FL065 CLASS C				
▲ SEBHA VOR/DME SEB N265944E0142735	<u>106°</u> 286°	31					
▲ TMISA N262548E0162054	<u>107°</u> 287°	107					Only advisory service is provided in this portion of the route
▲ KANIR N254613E0182904	<u>107°</u> 287°	122	FL660 FL065 CLASS F	20			
▲ AKMID N253830E0185330	<u>107°</u> 287°	23					
▲ LAGSI N252145E0194418		49					Sebha Tower VHF119.1MHz
▲ KUFRA VOR/DME KFR N240914E0231828		208					

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
W860							
■ MITIGA DVOR/DME MTG N325337E0131622		$\frac{108^\circ}{288^\circ}$					Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ KUTAB N324865E0133259		$\frac{109^\circ}{289^\circ}$					
▲ KHOMS N324024E0135912		$\frac{109^\circ}{289^\circ}$					
▲ MISRATA VOR/DME MIS N321852E0150440		$\frac{109^\circ}{289^\circ}$					BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz
△ BAGLI N315636E0160000		$\frac{113^\circ}{293^\circ}$					
▲ LABAX N314304E0162801		$\frac{116^\circ}{296^\circ}$					
▲ CILBA N311800E0172400		$\frac{116^\circ}{296^\circ}$					
▲ MARSA BREGA NDB MB N302506E0193421		$\frac{112^\circ}{292^\circ}$					

**INTENTIONALLY
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ENR 3.2 UPPER ATS ROUTES

NIL

**INTENTIONALLY
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ENR 3.3 AREA NAVIGATION (RNAV) ROUTES

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency								
					Odd	Even									
L12 (RNP5) ▲ LOTIN (FIR BDRY) N342000E0150959	$\frac{152^\circ}{332^\circ}$	139	FL660 FL195 CLASS A	10			Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz LOTIN-TONBA ONE WAY SOUTHBOUND ONLY. Tripoli INFORMATION HF 11300 HF 5517 Only advisory service is provided in this portion of the route								
		185 129 106													
▲ DAHRA VOR/DME DHR N292803E0175554				20											
L31 (RNP5) ▲ LOTIN (FIR BDRY) N342000E0150959	$\frac{167^\circ}{347^\circ}$	248	FL660 FL195 CLASS F	20			Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz LOTIN-MIS ONE WAY SOUTHBOUND ONLY.								
		84	FL660 FL195 CLASS A	10											
▲ IVAKI N325550E0150630	$\frac{179^\circ}{359^\circ}$	37	FL195 FL065 CLASS C	10											
▲ MISRATA VOR/DME MIS N321852E0150440															

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
M1 (RNP5) ▲ RASNO (FIR BDRY) N342000E0212758							
▲ REDFI N332030E0205442	201° 021°	66	FL660 FL195 CLASS A	10	↑	↓	BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz
▲ WHALE N324436E0203300		40	FL195 FL065 CLASS C				
▲ BENINA VOR/DME BNA N320728E0201513	199° 019°	40					
M7 (RNP5) ▲ BONAR (FIR BDRY) N342000E0190213							
▲ RIGEM N324818E0191536	170° 350°	92	FL660 FL195 CLASS A				BENGHAZI CONTROL VHF 129.2MHz VHF 126.5Hz
▲ RIGED N315251E0192258		56					
▲ MARSA BREGA NDB MB N302506E0193421	171° 351°	88	FL195 FL065 CLASS C	10	↓		BONAR-MB ONE WAY SOUTHBOUND ONLY.
▲ LEBKO N284908E0193736		96					
▲ MASIT N272816E0194016		81					
▲ LAGSI N252145E0194418		126	FL660 FL195 CLASS F	20	↓		Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ TONBA (FIR BDRY) N213518E0195112		226					Only advisory service is provided in this route

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
M214 (RNP5) ▲ SEBHA VOR/DME SEB N265944E0142735 ▲ ELGAN N245000E0153754 ▲ GARIN (FIR BDRY) N220000E0170636							Tripoli INFORMATION HF 11300 HF 5517 Only advisory service is provided in this route
M215 (RNP5) ▲ LUMED (FIR BDRY) N342000E0144203 ▲ TULIR N332240E0151613 ▲ SIRTE VOR/DME SRT N310333E0163553 ▲ SOLAB N300235E0165832 ▲ NABUR N290307E0172012 ▲ KANIR N254613E0182904 ▲ TONBA (FIR BDRY) N213518E0195112							Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz TONBA-LUMED ONE WAY NORTHBOUND ONLY. Tripoli INFORMATION HF 11300 HF 5517 Only advisory service is provided in this portion of the route

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
M600 (RNP5) ▲ SARKI (FIR BDRY) N342000E0131447							Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
△ SKATE N334500E0130018	016° 196°	37					ZAW-SARKI ONE WAY NORTHBOUND ONLY.
△ UKSAG N330448E0124530		42	FL660 FL195 CLASS A	10			NOTE . Operators Intended To FPL VIA M600 Portion From ZAW To NORTHBOUND Should Select Even Flight Level Due To FL Allocation Scheme BTN Tripoli ACC and Malta ACCs .
▲ ZAWIA VOR/DME ZAW N324643E0123847		19					
▲ GALPO N311534E0113851	207° 027°	104					
▲ TOKDA N303311E0111144		48					Tripoli INFORMATION HF 11300 HF 5517
▲ ZARZAITINE VOR/DME IMN N280412E0093954		169					
M620 (RNP5) ▲ BONAR (FIR BDRY) N342000E0190213		41					BENGHAZI CONTROL VHF 129.2MHz VHF 126.5MHz
▲ RAMLI N334300E0192300		48					
△ PUFER N325901E0194748	152° 332°	15	FL660 FL195 CLASS A				BONAR-BNA ONE WAY SOUTHBOUND ONLY.
△ ATOLL N324500E0195454		41					
▲ BENINA VOR/DME BNA N320728E0201513		105	FL195 FL065 CLASS C				
▲ DAMUN N302805E0205530	158° 338°	163					
▲ VATAX N275312E0215602		16					
▲ SODOR N273747E0220159		219					
▲ KUFRA VOR/DME KFR N240914E0231828	158° 339°						

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
M621 (RNP5) ▲ OLMAX (FIR BDRY) N342000E0180750	<u>145°</u> <u>325°</u>	25 32 51 65	FL660 FL195 CLASS A FL195 FL065 CLASS C	10			Malta ACC VHF 123.625 MHz BENGHAZI CONTROL VHF 129.2MHz VHF 126.5 MHz BNA-OLMAX ONE WAY NORTHBOUND ONLY.
M622 (RNP5) ▲ INDOT (FIR BDRY) N342000E0165653	<u>125°</u> <u>305°</u>	33 57 58 65	FL660 FL195 CLASS A FL195 FL065 CLASS C	10			BENGHAZI CONTROL VHF 129.2MHz VHF 126.5 MHz BNA-INDOT ONE WAY NORTHBOUND ONLY Malta ACC VHF130.975 MHz

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
M707 (RNP5) ▲VARIG (FIR BDRY) N342000E0134350 ▲NOSRO N325324E0133148 ■▲ABU ARGUB VOR/DME ABU N322746E0131010	<u>184°</u> 004°	87	<u>FL660</u> FL195 CLASS A	10		↓	Tripoli CONTROL VHF 120.9MHz VHF 128.4 MHz VARIG-ABU ONE WAY SOUTHBOUND ONLY.
M709 (RNP5) ▲BENINA VOR/DME BNA N320728E0201513 ▲ MARSA BREGA NDB MB N302506E0193421 ■▲DAHRA VOR/DME DHR N292803E0175554 ▲ NABUR N290307E0172012 ▲ FUGHA N281001E0160541 ■▲SEBHA VOR/DME SEB N265944E0142735 ▲TAZIT N255624E0115418 ■▲GHAT DVOR/DME GHT N250933E0100823 ▲TWARG (FIR BDRY) N250301E010020	<u>196°</u> 016° <u>234°</u> 054° <u>230°</u> 050° <u>229°</u> 049° <u>230°</u> 050° <u>244°</u> 064° <u>243°</u> 063° <u>224°</u> 044°	108 103 40 84 112 151 107 8	<u>FL660</u> FL195 CLASS A <u>FL195</u> FL065 CLASS C <u>FL660</u> FL065 CLASS C <u>FL660</u> FL065 CLASS F	10 20	↑ ↓	↑ ↓	BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz Sebha Tower VHF119.1MHz Only advisory service is provided in this portion of the route Tripoli INFORMATION HF 11300 HF 5517
M726 (RNP5) ▲ SARKI (FIR BDRY) N342000E0131447 ▲ DISOL N334113E0131428 △ SHELL N332024E0131530 ■▲ MITIGA DVOR/DME MTG N 325337E0131622	<u>179°</u> 359°	37	<u>FL660</u> FL195 CLASS A	10		↑	Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz DISOL-SARKI ONE WAY NORTHBOUND ONLY. AVAILABLE FOR HLLM ARRS/DEPS ONLY.

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
M727 (RNP5) ▲ ABRAM (FIR BDRY) N342000E0123816 ▲ AMWAJ N332868E0123855 ▲ ZAWIA VOR/DME ZAW N324643E0123847 ▲ MIZDA VOR/DME IZD N312709E0130038 ▲ HAMRA N293200E0125000 ▲ WANIN N281000E0124800 ▲ UBARI NDB UBR N263552E0124648 ▲ TUBET N250000E0124008 ▲ DEKTU (FIR BDRY) N220000E0122806	<u>176°</u> <u>356°</u> <u>176°</u> <u>356°</u> <u>166°</u> <u>346°</u> <u>184°</u> <u>007°</u> <u>178°</u> <u>360°</u> <u>179°</u> <u>360°</u> <u>182°</u> <u>002°</u> <u>182°</u> <u>001°</u>	51 42 82 115 82 94 96 180	FL660 FL195 CLASS A FL660 FL325 CLASS F FL660 FL325 CLASS F	10 20 20	       	ABRAM-ZAW ONE WAY SOUTHBOUND ONLY Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz Note: It is mandatory for operators to flight plan this route at FL330 or above due to flight level allocation scheme applicable between Tripoli ACC and N'djamena ACC . Tripoli INFORMATION HF11300 HF 5517 Only advisory service is provided in this portion of the route	
M731(RNP5) ▲FARES (FIRBDRY) N320949E0105652 ▲NALUT N315101E0105854 ▲NAFUS N304436E0110954 ▲DERJE N294742E0111900 ▲ORBEL N282236E0113218 ▲TAZIT N255624E0115418 ▲ DEKTU (FIR BDRY) N220000E0122806	<u>172°</u> <u>352°</u> <u>57</u> <u>86</u> <u>147</u> <u>238</u>	19 68 86 147 238	FL660 FL195 CLASS A FL660 FL325 CLASS F	10 20	     	Tripoli INFORMATION HF 11300 HF 5517 Note: It is mandatory for operators to flight plan this route at FL330 or above due to Flight level allocation Scheme applicable between Tripoli ACC and N'djamena ACC . Only advisory service is provided in this portion of the route	

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
M732 (RNP5) ▲ ELIMO (FIR BDRY) N342000E0162210	<u>133°</u> 313	28					BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz
▲ EVRAN N340000E0164635		66					
▲ DEGLI N331248E0174312	<u>131°</u> 311°	116	FL660 FL195 CLASS A				ELIMO-DEGLI ONE WAY SOUTHBOUND ONLY
▲ RIGED N315251E0192258	<u>130°</u> 310°	40	FL195 FL065 CLASS C	10			
▲ ROTOD N312538E0195724	<u>130°</u> 310°	80					DEGLI-DITAR ONE WAY SOUTHBOUND ONLY.
▲ ANHAR N303100E0210500		296					
▲ DITAR (FIR BDRY) N265903E0250000	<u>132°</u> 312°						Tripoli information HF 11300 HF 5517
M739 (RNP5) ▲ VARIG (FIR BDRY) N342000E0134350	<u>148°</u> 328°	55	FL660 FL195 CLASS A				Tripoli CONTROL VHF 120.9 MHz VHF 128.4MHz
▲ REXUN N33210E0141570		84	FL195 FL065 CLASS C	10			
▲ MISRATA VOR/DME MIS N321852E0150440							VARIG-MIS ONE WAY SOUTHBUND ONLY.
M740 (RNP5) ▲ SARKI (FIR BDRY) N342000E0131447	<u>169°</u> 349°	53					Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ HITAN N332736E0132509	<u>171°</u> 351°	35	FL660 FL195 CLASS A				
▲ NOSRO N325324E0133148	<u>170°</u> 350°	31	FL195 FL065 CLASS C				
▲ KADRA NDB KDR N322200E0133700	<u>170°</u> 350°	143					
▲ KAVEN N300000E0135958		181					
▲ SEBHA VOR/DME SEB N265944E0142735	<u>170°</u> 350°						NOSRO-SARKI ONE WAY NORTHBOUND ONLY.

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
M855 (RNP5) ▲ RASNO (FIR BDRY) N342000E0212758	<u>127°</u> 307°	31					Malta ACC VHF 123.625 MHz
▲ AMTAR N340000E0215618	<u>126°</u> 306°	93	FL660 FL195 CLASS A	10			BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz
▲ VUSOR N330000E0232117	<u>127°</u> 307°	120					Tripoli INFORMATION HF 11300 HF 5517
▲ LOSUL (FIR BDRY) N314100E0250800							
M979 (RNP5) ▲ LABRAQ NDB LAB N324641E0220113	<u>291°</u> 111°	144					BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz
▲ RAMLI N334300E0192300	<u>284°</u> 104°	59	FL660 FL195 CLASS A	10			LAB-INDOT ONE WAY NORTHBOUND ONLY.
▲ NETAG N340032E0181517	<u>284°</u> 104°	68	FL195 FL065 CLASS C				Malta ACC VHF 130.975 MHz
▲ INDOT (FIR BDRY) N342000E0165653							BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz
M980 (RNP5) ▲ BONAR (FIR BDRY) N342000E0190213	<u>114°</u> 294°	110					BONAR-LOSUL ONE WAY SOUTHBOUND ONLY.
▲ DARIP N333125E0210045	<u>115°</u> 295°	236	FL660 FL195 CLASS A	10			EASTBOUND traffic within RVSM level band cross LOSUL at FL290, FL330, FL370, FL410.
▲ LOSUL (FIR BDRY) N314100E0250800							Tripoli information HF 11300 HF 5517

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
M999 (RNP5) ▲ DITAR (FIR BDRY) N265903E0250000							
▲ SARIR NDB GS N273900E0223000	<u>284°</u> 104°	139					
△ KARUB N273524E0211524	<u>265°</u> 085°	66					
▲ ARRIG N272930E0200112	<u>263°</u> 083°	66					Tripoli information HF 11300 HF 5517
▲ MASIT N272816E0194016	<u>264°</u> 084°	19					
▲ HORUJ N270906E0161442	<u>263°</u> 083°	184	FL660 FL245	20			
▲ SEBHA VOR/DME SEB N265944E0142735	<u>261°</u> 081°	96	Class F				Only advisory service is provided in this route
▲ BURHA N272218E0124724	<u>285°</u> 105°	92					
▲ ZARZAITINE VOR/DME IMN N280412E0093954	<u>284°</u> 104°	172					

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
N68 (RNP5) ▲ OLMAX (FIR BDRY) N342000E0180750	$\frac{159^\circ}{339^\circ}$	20	FL660 FL195 CLASS A				Malta ACC VHF 123.625 MHz
▲ NETAG N340032E0181517	$\frac{159^\circ}{339^\circ}$	56	FL195 FL065 CLASS C				BENGHAZI CONTROL VHF129.2 MHz VHF 126.5 MHz
▲ MISIK N330715E0183527		15					
▲ ORGON N325246E0184052	$\frac{160^\circ}{340^\circ}$	46					MB-OLMAX ONE WAY NORTHBOUND ONLY.
▲ GENIN N320840E0185710		108					
▲ MARSA BREGA NDB MB N302506E0193421							
N163 (RNP5) ▲ ABRAM (FIR BDRY) N342000E0123816	$\frac{163^\circ}{343^\circ}$	83					
▲ CONCH N325929E0130134	$\frac{164^\circ}{344^\circ}$	32	FL660 FL195 CLASS A	10			Tripoli control VHF 120.9 MHZ VHF 128.4 MHZ
▲ ABU ARGUB VOR/DME ABU N322746E0131010	$\frac{168^\circ}{348^\circ}$	36					ABRAM-GRT ONE WAY SOUTHBOUND ONLY.
▲ TAWUS N315218 E0131736		90					
▲ GHERIAT NDB GRT N302341E0133509	$\frac{169^\circ}{349^\circ}$						
N708 (RNP5) ▲ RASNO (FIR BDRY) N342000E0212758							
▲ LABRAQ LAB NDB N324607E0220102	$\frac{161^\circ}{341^\circ}$	97					BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz
▲ MKILY N315900E0222000	$\frac{158^\circ}{338^\circ}$	50	FL660 FL195 CLASS A	10			LAB-DITAR ONE WAY SOUTH BOUND ONLY
▲ OBNUS N295401E0232848	$\frac{151^\circ}{331^\circ}$	138	FL195 FL065 CLASS C				
▲ DITAR N265903E0250000	$\frac{152^\circ}{332^\circ}$	192					Tripoli INFORMATION HF 11300 HF 5517

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
N982 (RNP5) ▲ SARKI (FIR BDRY) N342000E0131447							Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ODGAX N333754E0135256	140° 320°	54					MIS-SARKI ONE WAY NORTHBOUND ONLY.
▲ MISRATA VOR/DME MIS N321852E0150440	132° 312°	98	FL660 FL1950 CLASS A	10			
△ KALIJ N313300E0160000	142° 322°	66	FL195 FL065 CLASS C				
▲ SIRTE VOR/DME SRT N310333E0163553	134° 314°	43					
▲ DAHRA VOR/DME DHR N292803E0175554	136° 316°	118					Tripoli INFORMATION HF 11300 HF 13273
▲ ARRIG N272930E0200112		162					
▲ KUFRA VOR/DME KFR N240914E0231828		267	FL660 FL065 CLASS F	20			Only advisory service is provided in this portion of the route

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
P32 (RNP5) ▲ EKLIS (FIR BDRY) N342000E0202855 RAMLI N334300E0192300 ▲ ORGON N325246E0184052 ▲ CILBA N311800E0172400 ▲ DERNI N301328E0164015 ▲ HON NDB HON N290800E0155700 ▲ ALGAF N281000E0151600 SEBHA VOR/DME SEB N265944E0142735	$\underline{234^\circ}$ 054°	66					BENGHAZI CONTROL VHF 129.2 MHz VHF126.5 MHz
	$\underline{213^\circ}$ 033°	61					
	$\underline{212^\circ}$ 032°	115	FL660 FL195 CLASS A	10			
	$\underline{208^\circ}$ 028°	75					
	$\underline{210^\circ}$ 030°	75					
	$\underline{210^\circ}$ 030°	68					
	$\underline{210^\circ}$ 030°	82					
							Tripoli Information HF 11300 HF 5517

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
P126 (RNP5) ▲ LUMED (FIR BDRY) N342000E0144203							
▲ SAMAK N332404E0145238	<u>169°</u> <u>349°</u>	57					Tripoli CONTROL VHF120.9 MHz VHF 128.4MHz
▲ MISRATA VOR/DME MIS N321852E0150440		66					
▲ NAMWA N312542E0151824	<u>166°</u> <u>346°</u>	54	<u>FL660</u> <u>FL195</u> CLASS A	10			
△ NJEIM N305560E01527.6		31					Tripoli Information HF 11300 HF5517
▲ HON NDB HON N290800E0155700		110					
▲ FUGHA N281001E0160541	<u>164°</u> <u>344°</u>	58					Only advisory service is provided in this portion of the route
△ HORUJ N270906E0161442		61	<u>FL660</u> <u>FL245</u> CLASS F				
▲ TMISA N262548E0162054		44					
▲ NADED N250000E0163602	<u>171°</u> <u>351°</u>	87					
▲ GARIN (FIR BDRY) N220000E0170636		182					GARIN-LUMED ONE WAY NORTHBOUND ONLY..

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
P128 (RNP5)							
▲ TANLI (FIR BDRY) N332938E0113000	<u>089°</u> 269°	57					Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ AMWAJ N332868E0123855	<u>089°</u> 269°	40					LAB-TANLI ONE WAY WESTBOUND ONLY.
▲ HITAN N332736E0132509	<u>090°</u> 270°	73					
▲ SAMAK N332404E0145238	<u>092°</u> 272°	107					
▲ OJAAJ N331548E0170000	<u>093°</u> 273°	36					BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz
▲ DEGLI N331248E0174312	<u>095°</u> 275°	106					
△ PUFER N325901E0194748	<u>093°</u> 273°	113					
▲ LABRAQ NDB LAB N324641E0220113	<u>109°</u> 289°	171					Route portion BTN LOSUL-LAB Not available when HL-67 active.
▲ LOSUL (FIR BDRY) N314100E0250800							

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
P310 (RNP5) ▲ RASNO (FIR BDRY) N342000E0212758	<u>248°</u> 068°	110 35 19 35 39 53 52	FL195 FL065 CLASS C	10			BENGHAZI CONTROL VHF 129.2 MHz VHF126.5 MHz
▲ RAMLI N334300E0192300							
▲ FARUJ N333124E0184354							
▲ TUNAR N332448E0182212							
△ DEGLI N331248E0174312							
▲ SOLUN N325912E0170000							
▲ CIBIA N324012E0160112							
▲ MISRATA VOR/DME MIS N321852E0150440							
P560 (RNP5) ▲ OLMAX (FIR BDRY) N342000E0180750	<u>117°</u> 297°	39	FL660 FL195 CLASS A	10			Malta ACC VHF 123.625 MHz
▲ IDOMI N340000E0184854							
▲ RAMLI N334300E0192300	<u>118°</u> 298°	33					RAMLI -OLMAX ONE WAY NORTHBOUND ONLY.
							BENGHAZI CONTROL VHF 129.2 MHz VHF 126.5 MHz

Route designator Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
P563 (RNP5) ▲ LUMED (FIR BDRY) N342000E144203 ▲ ODGAX N333754E0135256 ▲ DERKA N330900E0132202 ▲ MITIGA DVOR/DME MTG N 325337E0131622							DERKA-LUMED ONE WAY NORTHBOUND ONLY.
							Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
P573 (RNP5) ▲ ELIMO (FIR BDRY) N342000E0162210 ▲ RIGEM N324818E0191536 ▲ BENINA VOR/DME BNA N320728E0201513							Benghazi CONTROL VHF 129.2MHz VHF 126.5 MHz ELIMO-BNA ONE WAY SOUTHBOUND ONLY.

Route designator (RNP) Significant Points Coordinates	Track (MAG)	Distance (NM)	Upper Limit Lower Limit Airspace Classification	Lateral Limits (NM)	Direction of Cruising Levels		Remarks Controlling Units Frequency
					Odd	Even	
P702 (RNP5) ▲ LOTIN N342000 E0150959	<u>221°</u> 041°	67	FL660 FL195 CLASS A	10			Tripoli CONTROL VHF 120.9MHz VHF 128.4MHz
▲ REXUN N333206E0141539	<u>221°</u> 041°	53	FL195 FL065 CLASS C			↓	LOTIN-NOSRO ONE WAY SOUTHBOUND ONLY.
▲ NOSRO N325324 E0133148							
P706 (RNP5) ▲ ABRAM (FIR BDRY) N342000E0123816	<u>151°</u> 331°	39	FL660 FL195 CLASS A	10			Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
△ SKATE N334500E0130018	<u>152°</u> 332°	28	FL195 FL065 CLASS C			↓	ABRAM -NOSRO ONE WAY SOUTHBOUND ONLY.
△ SHELL N332024E0131530							
▲ NOSRO N325324E0133148		30				↓	
P709 (RNP5) ▲ VARIG (FIR BDRY) N342000E0134350	<u>209°</u> 029°	44	FL660 FL195 CLASS A	10			Tripoli CONTROL VHF 120.9 MHz VHF 128.4 MHz
▲ DISOL N334113E0131428			FL195 FL065 CLASS C				VARIG-ZAW ONE WAY SOUTHBOUND ONLY.
▲ ZAWIA VOR/DME ZAW N324643E0123847		62				↓	
Z177 (RNP5) ▲ DARIP N333125E0210045	<u>129°</u> 309°	68	FL660 FL195 CLASS A	10			Benghazi CONTROL VHF 129.2MHz VHF 126.5 MHz
▲ LABRAQ NDB LAB N324641E0220113			FL195 FL065 CLASS C			↓	DARIP-LAB ONE WAY SOUTHBOUND ONLY.

ENR 3.4 HELICOPTER ROUTES

NIL

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ENR 3.5 OTHTER ROUTES

NIL

**INTENTIONALLY
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ENR 4. RADIO NAVIGATION AIDS/SYSTEMS**ENR 4.1 RADIO NAVIGATION AIDS - EN-ROUTE**

STATION NAME	IDET	FREQUEY	HOURS OF OPERATION	COORDINATES	ELEVATION DME ANTENNA	REMARKS
ABU ARGUB VOR/DME(E000)	ABU	115.1 MHz	H24	N322746 E0131010	489 ft	
BEDA NDB	XS	365KHz	H24	N283000 E0190000		
BENINA VOR/DME (E003)	BNA	117.4 MHz	H24	N320728 E0201513	349 ft	
BENI WALID VOR/DME (E001)	WLD	115.9 MHz	H24	N314657 E0140034	1000 ft	
DAHRA VOR/DME (E002)	DHR	116.1 MHz	H24	N292803 E0175554		
GHADAMES VOR/DME (E001)	GAD	115.8 MHz	H24	N300949 E0094429	1110 ft	
GHAT DVOR/DME (E001)	GHT	114.8 MHz	H24	N250933 E0100823	2296ft	
GHERIAT NDB (E002)	GRT	337 KHz	H24	N302341 E0133509		
JODAY NDB (E002)	TRO	328 KHz	H24	N324745 E0124940		
JUFRA NDB	JFR	438KHz	H24	N291200 E0160018		
KADRA NDB (E002)	KDR	429 KHz	H24	N322200 E0133700		
KUFRA VOR/DME (E003)	KFR	113.2 MHz	H24	N240914 E0231828	1376 ft	
LABRAQ NDB (E002)	LAB	392KHz	H24	N324641 E0220113		

STATION NAME	IDENT	FREQUENCY	HOURS OF OPERATION	COORDINATES	ELEVATION DME ANTENNA	REMARKS
MARSA BREGA NDB (E003)	MB	403 KHz	H24	N302506 E0193421		
MISRATA VOR/DME (E002)	MIS	117.1 MHz	H24	N321852 E0150440	22 ft	
MITIGA DVOR/DME (E001)	MTG	113.4 MHz	H24	N325337 E0131622	32 ft	
MIZDA VOR/DME (E001)	IZD	116.5 MHz	H24	N312709 E0130038	1910 ft	
MIZDA NDB (E002)	IZD	378 KHz	H24	N312646 E0125825		
TOBRUK VOR/DME	TBQ	112.3MHz	H24	N315124 E0235443		
SARIR NDB (E003)	GS	305 KHz	H24	N273900 E0223000		
SEBHA VOR/DME (E002)	SEB	114.7 MHz	H24	N265944 E0142735	1405 ft	
SIRTE VOR/DME (E002)	SRT	117.0 MHz	H24	N310333 E0163553	267 ft	
TAZERBO NDB (E003)	TZR	269 KHz	H24	N254007 E0210536		
TRIPOLI VOR/DME (E002)	TPI	114.6 MHz	H24	N323947 E0130706	367 ft	
UBARI NDB (E002)	UBR	417 KHz	H24	N263552 E0124648		
ZAWIA VOR/DME (E000)	ZAW	117.7 MHz	H24	N324643 E0123847	100 ft	
ZINTAN VOR/DME	ZNT	112.5MHz	H24	N314829 E0121550		
ZWARA NDB (E002)	ZAR	432 KHz	H24	N325707 E0120122		

ENR 4.3 GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS)

NIL

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ENR 4.4 NAME - CODE DESIGNATORS FOR SIGNIFICANT POINTS

NAME-CODE DESIGNATOR	COORDINATES	ATS ROUTE OR OTHER ROUTE
ABU ARGUB	N 322746 E0131010	M707, N163 ,V500, V600, V700, V800, V900
ABRAM	N342000 E0123826	M727, P706,N163
AGAAR	N271824 E0140000	W858
AKMID	N253830 E0185330	W858,L12
ALBEY	N302600 E0150000	B727
ALGAF	N281000 E0151600	W854, P32
AMTAR	N340000 E0215618	M855
AMWAJ	N332868 E0123855	P128 , M727
ANHAR	N303100 E0210500	M732
ARADA	N304636 E0213348	R2
ARRIG	N272930 E0200112	J850,N982, M999
ATOLL	N324500 E0195454	M620, V400
BAGLI	N315636 E0160000	W860
BONAR	N342000 E0190213	M7, M620, M980
BOURI	N314124 E0184259	B21, B727
BOXAL	N273000 E0142012	A403
BREAM	N325330 E0140500	V950,V200
BURHA	N272218 E0124724	M999
CIBIA	N324012 E0160112	V400, P310
CILBA	N311800 E0172400	W860, B727, P32
CONCH	N325929 E0130134	V950 , N163
DAHRA	N29 2803 E017 5554	L12 M709 ,N982, J855, J615
DAMUN	N302805 E0205530	M620,
DARIP	N333125 E0210045	Z177, M980
DAYFA	N281918 E0205236	B21, J615
DEGLI	N331248 E0174312	B21, M732, P128, P310
DEKTU	N220000 E0122806	G858, M727, M731
DERJE	N294742 E0111900	A18, M731
DERNI	N301328 E0164015	J615, P32
DERKA	N330900 E0132202	A411 ,P563
DISOL	N334113 E0131428	M726, P709
DITAR	N265903 E0250000	R2, M732, M999,R778, N708
EBITO	N301222 E0122407	W853, G655
EKLIS	N342000 E0202855	P32
ELGAN	N245000 E0153754	G655,M214
ELIMO	N342000 E0162210	M732, P573
ERMX	N335819 E0182401	M621
EVTRAN	N340000 E0164635	M732

NAME-CODE DESIGNATOR	COORDINATES	ATS ROUTE OR OTHER ROUTE
FARES	N320949 E0105652	G655, M731
FARUJ	N333124 E0184354	M621, P310
FARWA	N330000 E0121812	A420
FUGHA	N281001 E0160541	M709, P126
FUNGI	N303636 E0120824	A18, G655
GALPO	N311534 E0113851	G655, P320
GARIN	N220000 E0170636	G655, M214, P126
GARUS	N324000 E0170000	A411, V400, V950
GASRI	N335609 E0113000	R845
GENIN	N320840 E0185710	N68
GHERIAT	N30 2341 E013 35 09	N163 R845 V700 A403
GWASM	N320800 E0130700	V800
HAMOR	N320900 E0182400	B21, A420
HAMRA	N293200 E0125000	V800, B727, G655
HITAN	N332736 E0132509	M740, P128
HORUJ	N270906 E0161442	J850, M999, P126
IDOMI	N340000 E0184854	P560
INDOT	N342000 E0165653	B21, M622, M979
IVAKI	N325530 E0150618	L31, V200, A411
KADRA	N32 2200 E0133700	M740, J615, V500, A18
KALIJ	N313300 E0160000	N982
KANIR	N254613 E0182904	W858, M215
KARUB	N273524 E0211524	B21, J850, M999
KAVEN	N300000 E0135958	M740
KAVOX	N325700 E0145603	A411
KEBUX	N272230 E0182810	L12
KHOMS	N324024 E0135912	V400, W860
KUTAB	N324856 E0133259	W860
LABAX	N314304 E0162801	J730
LAGSI	N252145 E0194418	W858, M7
LEBKO	N284908 E0193736	J615, M7
LETNO	N340000 E0172811	M622
LOSUL	N314100 E0250800	A411, M980, P128, M855
LOTIN	N342000 E0150959	L31, L12, P702
LUMED	N342000 E0144203	P126, M215, P126, P563
MAGNA	N322130 E0140000	V500
MASIT	N272816 E0194016	J850, M7, M999
MEKDA	N324408 E0193301	V400
MKILY	N315900 E0222000	A411, N708
MISIK	N330715 E0183527	N68
NABUR	N290307 E0172012	M709, M215

NAME-CODE DESIGNATOR	COORDINATES	ATS ROUTE OR OTHER ROUTE
NADED	N250000 E0163602	P126
NAFUS	N304436 E0110954	J980, M731
NAGDA	N321500 E0162328	J730 L12
NALUT	N315101 E0105854	M731
NAMWA	N312542 E0151824	J622, J725, P126
NETAG	N340032 E0181517	N68, M979
NGIRT	N285200 E0112700	B727
NJEIM	N305536 E0152736	J615, J725,P126
NOSRO	N325324 E0133148	M740, P706,M707,V950, P702
OBNUS	N295401 E0232848	N708
ODGAX	N333754 E 0135256	P563 ,N982
OJAAJ	N331548 E0170000	P128
OKLIR	N340000 E0171049	B21
OLMA	N342000 E0180750	M621, N68, P560
ORBE	N282236 E0113218	W853, M731
ORGON	N325246 E0184052	N68, P32
ORNAT	N200000 E0250000	B21
PEBAN	N324000 E0180500	A411, B21, V400
PUFER	N325901 E0194748	M620, P128
RAMLI	N334300 E0192300	M620,M979,P32,P560,P310
RASNO	N342000 E0212758	M1, N708,M855, P310
REDFI	N332030 E0205442	M1
REXUN	N333206 E0141539	P702 ,M739
REXOS	N331700 E0120800	A411, R845, V950
RIGED	N315251 E0192258	M7, M732
RIGEM	N324818 E0191536	M7, M621, M622, P573
ROTOD	N312538 E0195724	M732
RYHAN	N321200 E0133000	A18, V600
SAHRA	N243812 E0133100	G858
SAKKR	N321201 E0124800	V900
SAMAK	N332404 E0145238	P126, P128
SARIR	N273900 E0223000	M999, J615,J850
SARKI	N342000 E0131447	M600, M726, M740, N982
SHATI	N280200 E0141201	A403
SHELL	N332024 E0131530	M726, P706
SINAW	N310600 E0110600	V900
SKATE	N334500 E0130018	M600, P706,
SODOR	N273747 E0220159	M620
SOLAB	N300235 E0165832	M215
SOLUN	N325912 E0170000	P310,V200
SWIRF	N295300 E0134300	B727

NAME-CODE DESIGNATOR	COORDINATES	ATS ROUTE OR OTHER ROUTE
TAJAR	N242200 E0143436	A403
TAMIT	N304412 E0154654	J615, B727
TANLI	N332938 E0113000	A411, A420, P128
TAWUS	N315218 E0131736	A18, V700 ,N163
TAZIT	N255624 E0115418	M709, J977, M731
TILAL	N302448 E0162100	J615 , J730
TMISA	N262548 E0162054	W858, P126
TOKDA	N303311 E0111144	M600
TOKBU	N315112 E0235518	A411, B727
TONBA	N213518 E0195112	L12, M7, M215, R778
TUBET	N250000 E0124008	M727
TULIR	N332240 E0151613	M215
TUMMO	N220000 E0144020	A403
TUNAR	N332448 E0182212	M622, P310
TWARG	N250301 E0100200	M709
UKSAG	N330448 E0124530	M600, V950
VARIG	N342000 E0134350	M739, M707, P709
VATAK	N275312 E0215602	M620
VUSOR	N330000 E0232117	M855
WANIN	N281000 E0124800	V800, W858
WHALE	N324436 E0203300	M1, V400
YAQUT	N321300 E0170000	A420
ZAWIA	N324643 E0123847	M727,M600, R845 ,A420, V500 ,P709

HLLM AD 2.1 AERODROME LOCATION INDICATOR AND NAME**HLLM - TRIPOLI / Mitiga International****HLLM AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site at AD	325330.5106N 0131715.5605E (WGS-84)
2	Direction and distance from (city)	4.3 NM (8 km) east of Tripoli
3	Elevation/Reference temperature	30 ft
4	Geoid undulation at AD ELEV PSN	Nil
5	MAG VAR/Annual change	2°E (2019)
6	AD Administration, address, telephone, telefax, AFS	Mitiga airport Tel: 00218-21-3501052, 3501053 Fax: 00218-21-3502314
7	Types of traffic permitted (IFR/VFR)	IFR + VFR
8	Remarks	Available PPR

HLLM AD 2.3 OPERATIONAL HOURS

1	AD Administration	SUN-THU 0600-1300 UTC
2	Customs and immigration	H24
3	Health and sanitation	H24
4	AIS Briefing Office	H24
5	ATS Reporting Office (ARO)	H24
6	Met Briefing Office	H24
7	ATS	H24
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	Nil
12	Remarks	Nil

HLLM AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Available
2	Fuel/oil types	Jet A1- AvGas 100 LL / Nil
3	Fuelling facilities/capacity	Available
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Available
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

HLLM AD 2.5 PASSENGER FACILITIES

1	Hotels	Mitiga Hotel / Alwafa Hotel
2	Restaurants	Available
3	Transportation	Taxi and buses
4	Medical facilities	First Aid at airport One general hospital (medical center)
5	Bank and Post Office	Available
6	Tourist Office	Available
7	Remarks	Nil

HLLM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Within AD HR CAT 6
2	Rescue equipment	Nil
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

HLLM AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Types of clearing equipment	Nil
2	Clearance priorities	Nil
3	Remarks	Nil

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

1	Apron surface and strength	Asphalt PCN 100 F/B/W/T
2	Taxiway width, surface and strength	30 m, Asphalt, PCN 100 F/B/W/T
3	Altimeter checkpoint location and elevation	At apron, elevation 11 m
4	VOR checkpoints	Nil
5	INS checkpoints	Nil
6	Remarks	NIL

HLLM 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	Nil
2	RWY and TWY markings and LGT	Nil
3	Stop bars	Nil
4	Remarks	Nil

HLLM AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			In circling area and at AD		Remark
1			2		3
RWY NR. Area affected	Obstacle type Elevation Markings/LGT	Coord. (Dist from THR)	Obstacle type Elevation	Coord.	
a	b	c	a	b	
10	Obstacle 120m Nil	N325428 E0131500 2325m(THR10)	Nil	Nil	Nil
28	Nil	Nil	Nil	Nil	Nil

HLLM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	Tripoli
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	Mitiga
4	Trend forecast Interval of issuance	METAR / TAF
5	Briefing/consultation provided	Personal
6	Flight documentation language(s) used	English
7	Charts and other information available for briefing or consultation	SIG
8	Supplementary equipment available for providing information	Nil
9	ATS units provided with information	Nil
10	Additional information (limitation of service, etc.)	Nil

HLLM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True Bearing	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coor RWY end coor. THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP
1	2	3	4	5	6
10	102°	3400 x 45	PCN 100 Asphalt	N325344.8 E0131613.3	THR 30 ft
28	282°			N325316.2 E0131817.8	THR 26 ft
Designations RWY NR	Slope of RWY - SWY	SWY dimensions	CWY dimensions	STRIP dimensions	OFZ
1	7	8	9	10	11
10	Nil	250× 45	Nil	4020 ×300	Nil
28	Nil	250× 45	Nil	4020 ×300	Nil
Designations RWY NR	Remarks				
1	12				
03 - 21	RWY closed.	2195 × 30		×	

HLLM AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
10	3400	3400	3650	3400	Nil
28	3400	3400	3650	3400	Nil

HLLM AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type LEN INTS	THR LGT color WBAR	VASIS (MEH) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing color INTST	RWY edge LGT LEN, spacing color INTST	RWY End LGT color WBAR	SWY LGT LEN (m) color	Remarks
1	2	3	4	5	6	7	8	9	10
10	SALS LIL	Yes Green Red	PAPI-L PAPI-Left 3.00°			Yes LIL/ LIH/ REDL			
28	SALS LIL			Nil	Nil	Nil	Nil	Nil	Nil

HLLM AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	Nil
2	LDI location and LGT Anemometer location and LGT	Nil
3	TWY edge and Centre line lighting	TWY Yes Centre line Nil
4	Secondary power supply/ Switch-over time	Nil
5	Remarks	Nil

HLLM AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO Geoid undulation	Nil
2	TLOF and / or FATO elevation (m/ft)	Nil
3	TLOF and / or FATO area dimensions, surface, Strength, marking	Nil
4	True BRG of FATO	Nil
5	Declared distance available	Nil
6	APP and FATO lighting	Nil
7	Remarks	Nil

HLLM AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	Mitiga CTR A circle with radius of 5 NM centered on Mitiga ARP 325330.5106N 0131715.5605E
2	Vertical limits	SFC / 2000ft
3	Airspace classification	C
4	ATS unit call sign language(s)	Mitiga TWR English / Arabic
5	Transition altitude/Transition level	5000 ft / FL70
6	Remarks	Nil

HLLM AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	Mitiga Tower	126.300MHZ	H24	Primary
		120.200 MHZ	H24	Secondary
GND	Ground	121.900 MHZ	HO	Nil
ATIS	Mitiga ATIS	126.400 MHZ	HO	Nil

HLLM AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR CAT of ILS/MLS (For VOR/ILS/MLS, give declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
MITIGA DVOR/DME 2°E	MTG	113.400 MHz	H24	N325337 E0131622	32ft	Nil
Tajoura L	RJ	357KHz	H24	N325256 E0131941	Nil	Nil
ILS RWY 28 CAT II						
LOC 2°E	I-MTG	110.5MHz	H24	N325346.9 E0131604.4		NIL
GP		329.6MHz	H24	N325314.0 E0131807.6		Glideslope3°

HLLM AD 2.20 LOCAL TRAFFIC REGULATIONS

- 20.1 Airport regulation**
General:
Aerodrome restricted to aircraft capable of maintaining two-way radio communications with ATC.
- 20.2 Taxiing to and from stands**
- a) Arriving flights will be allocated a stand number by the ground controller and assistance from "FOLLOW ME" vehicle can be requested via the ground controller.
 - b) Departing IFR flights shall contact the TWR to obtain ATC clearance before commencing taxiing.
- 20.3 Parking area for small aircraft
(General aviation)**
General aviation aircraft shall not be guided by marshallers to the parking area for small aircraft.
- 20.4 Parking area for helicopters**
As directed by ATC.
- 20.5 Apron - taxiing during winter conditions**
Not applicable
- 20.6 Taxiing-limitations**
Nil.
- 20.7 School and training flights - technical test flights - use of runways**
Nil.
- 20.8 Helicopter traffic - limitation**
Nil.
- 20.9 Removal of disabled aircraft from runways**
When an aircraft is wrecked on a runway, it is the duty of the owner or user of such aircraft to have it removed as soon as possible. If a wrecked aircraft is not removed from the runway as quickly as possible by the owner or user, the aircraft will be removed by the aerodrome authority at the owner's or user's expense.

HLLM AD2.21 NOISE ABATEMENT PROCEDURES

Non Noise Certificated subsonic airplane(NNC) operations restricted daily between sunset / sunrise.

HLLM AD2.22 FLIGHT PROCEDURES

Communication failure

In the event of communication failure the pilot shall act in accordance with the communication procedures in ANNEX 2. For the TRIPOLI FIR, information concerning the associated navigation aids and the routing is given on page ENR 1.6-2.

Procedures for VFR flights within Mitiga CTR

Provided traffic conditions so permit ATC clearance for VFR flights will be given under the conditions described below:

- a) A flight plan requesting ATC clearance, containing items 7 to 18 and indicating the purpose of the flight, shall be submitted.
- b) ATC clearance shall be obtained immediately before the aircraft enters the area concerned.
- c) Position reports shall be submitted in accordance with 3.6.3 of ANNEX 2.
- d) Deviation from the ATC clearance may only be made when prior permission has been obtained.

- e) The flight shall be conducted with vertical visual reference to the ground unless the flight can be conducted in accordance with the Instrument Flight Rules.
- f) Two-way radio communication shall be maintained on the frequency prescribed. Information about the appropriate frequency can be obtained from Tripoli Information.
- g) The pilot-in-command shall be the holder of an International VHF licence.

Procedures for VFR flights within Mitiga CTR

- a) Flight plan shall be filed for the flight concerned.
- b) ATC clearance shall be obtained from the Control Tower.
- c) Deviation from ATC clearance may only be made when prior permission has been obtained.
- d) The flight shall be conducted with vertical visual reference to the ground.
- e) Two-way radio communication shall be established on the frequency prescribed before take place in control zone

HLLM AD2.23 ADDITIONAL INFORMATION

Nil

HLLM AD2.24 CHARTS RELATED TO THE AERODROME

AERODROME CHART- ICAO

AD2 HLLM-7

INSTRUMENT APPROACH CHART- ICAO- DVOR DME RWY 10

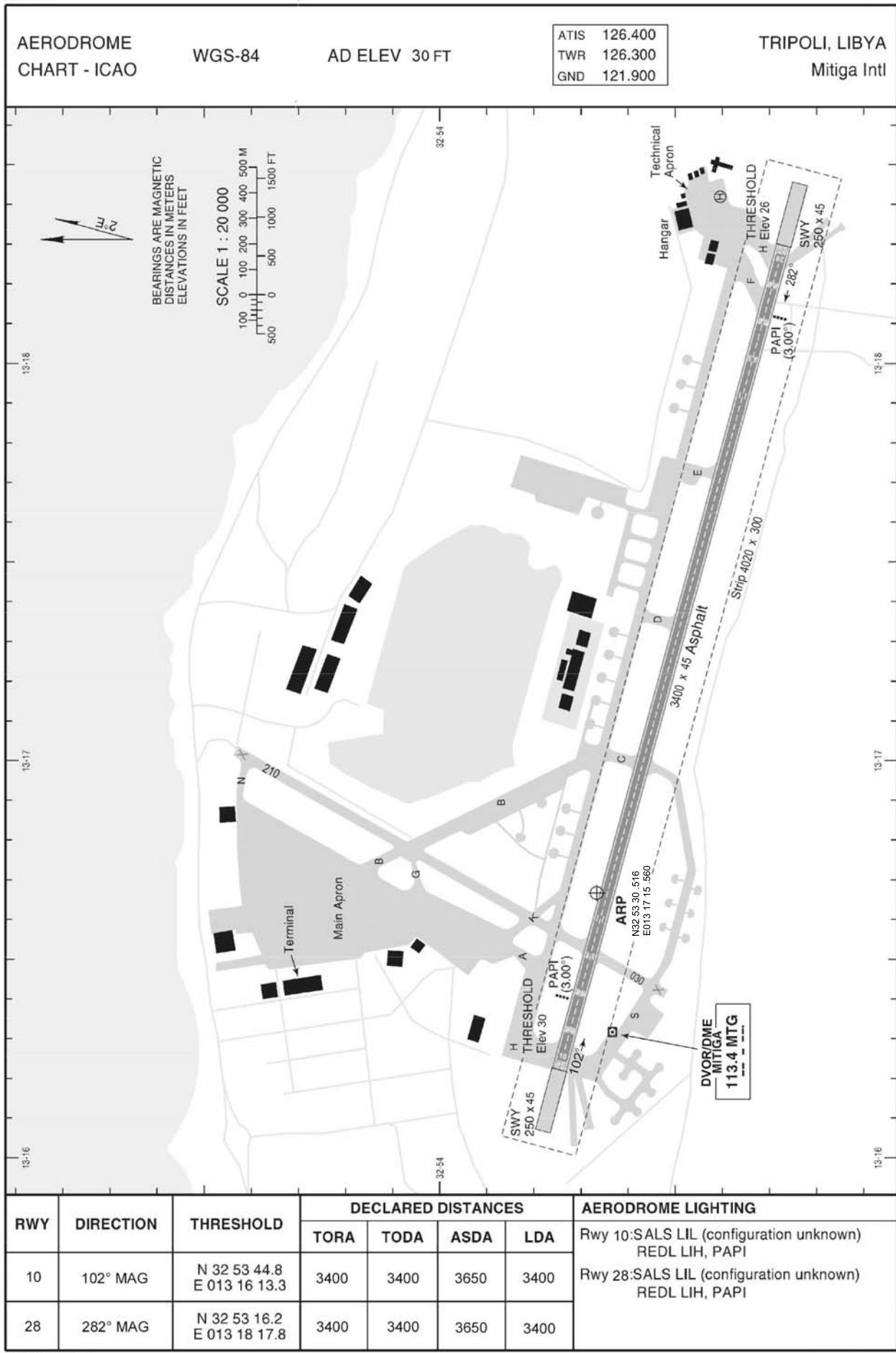
AD2 HLLM-9

INSTRUMENT APPROACH CHART- ICAO- DVOR DME RWY 28

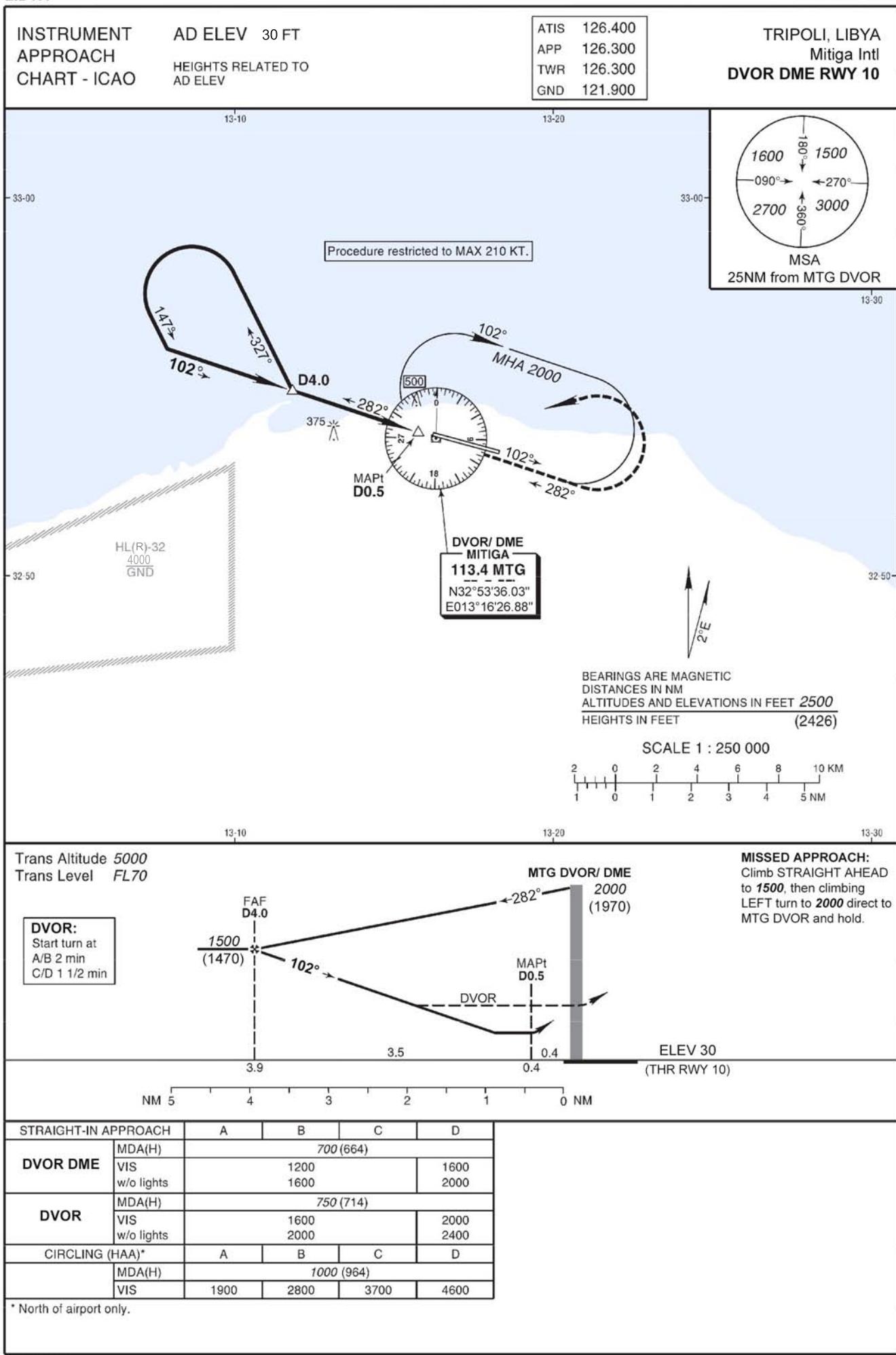
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INSTRUMENT APPROACH CHART – ICAO – ILS LOC RWY 28

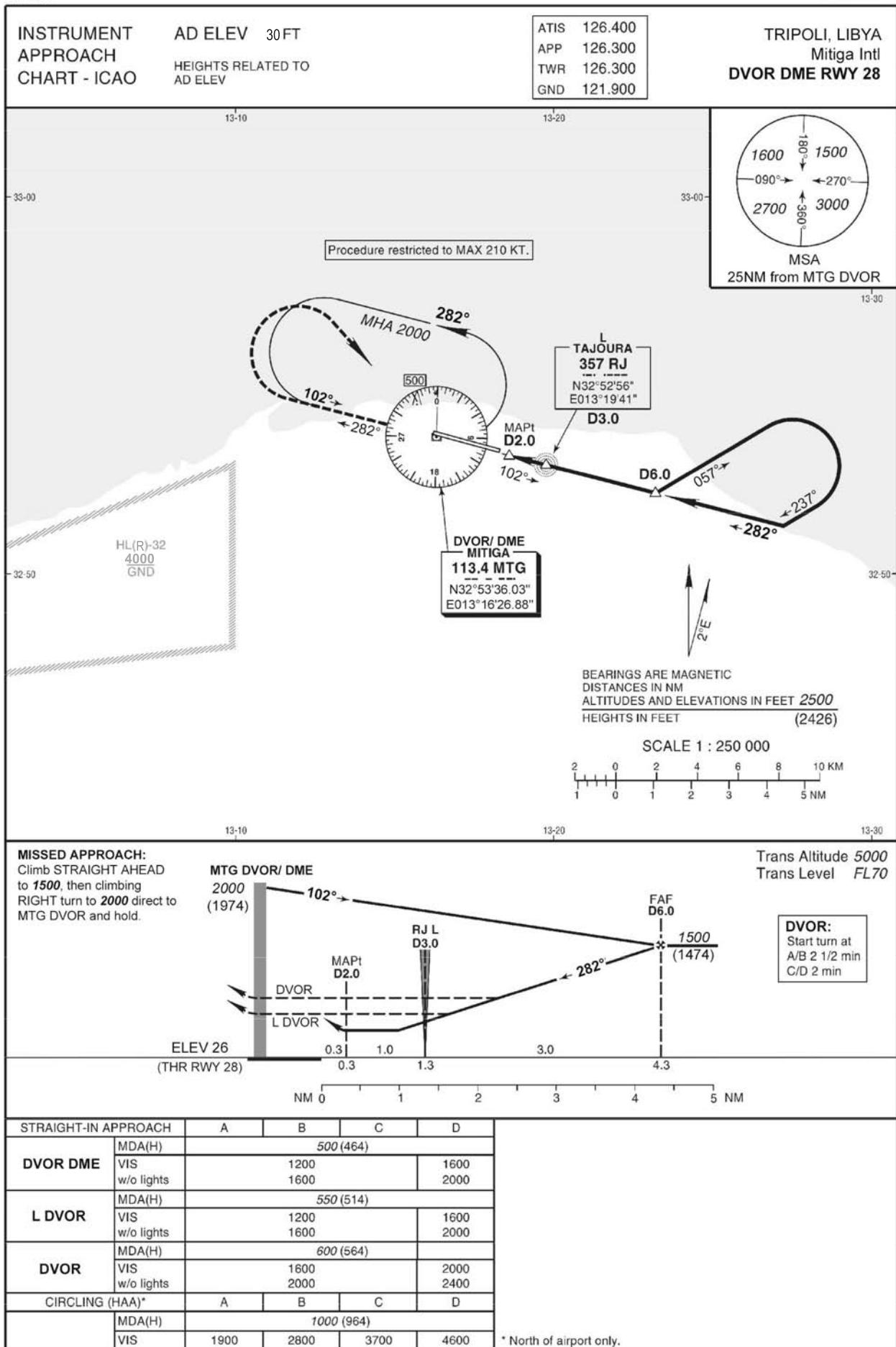
AD2 HLLM-13 New



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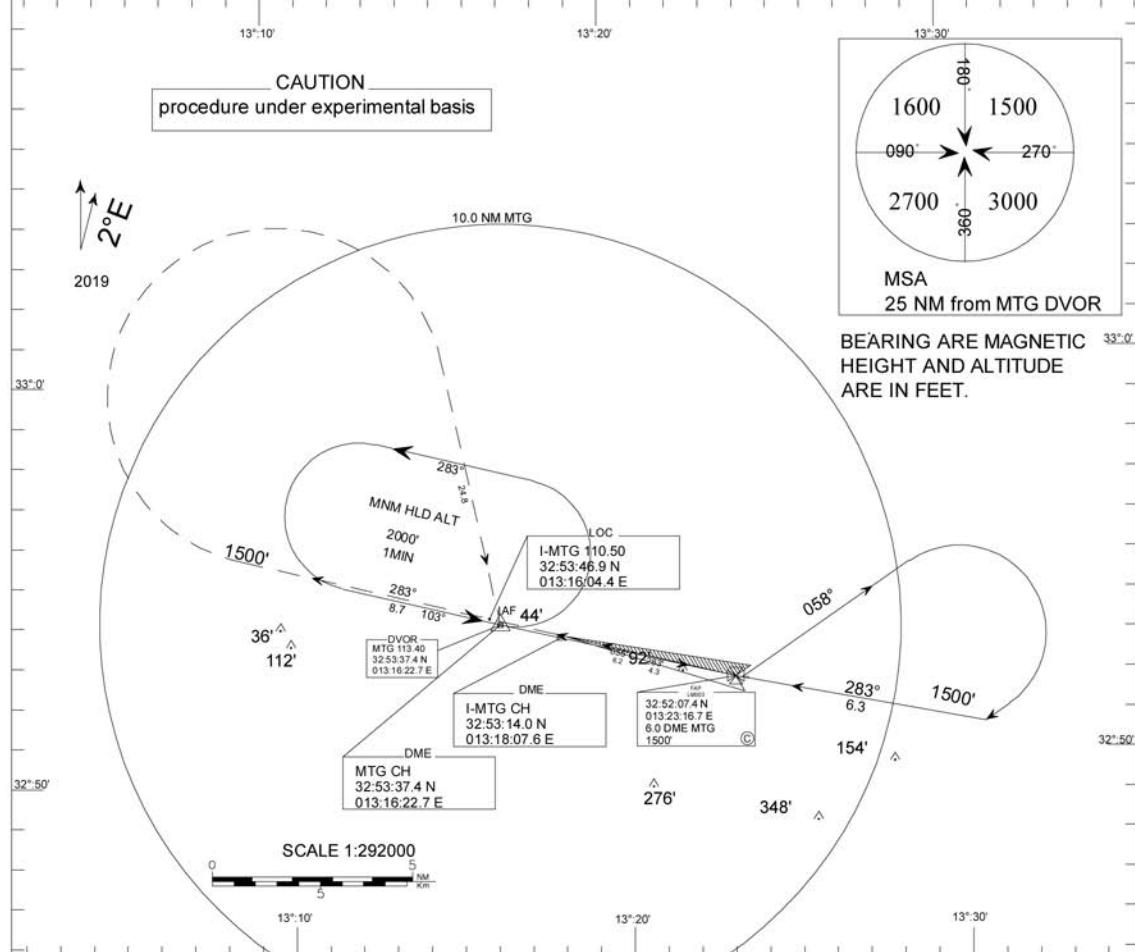
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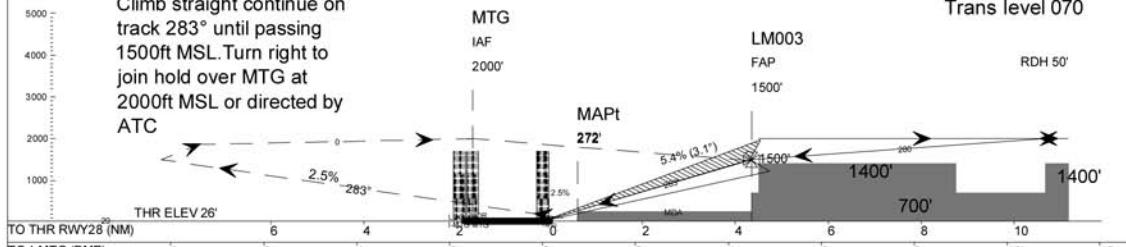
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INSTRUMENT
APPROACH
CHART - ICAOAD ELEV 30 (ft)
HEIGHTS RELATED TO
THR RWY28-ELEV 26(ft)TWR 126.300
GND 121.900Mitiga (Tripoli)
ILS LOC
RWY 28

13°.10' 13°.20'

CAUTION
procedure under experimental basis

MISSED APPROACH
Climb straight continue on track 283° until passing 1500ft MSL. Turn right to join hold over MTG at 2000ft MSL or directed by ATC



STRAIGHT IN Approach	CAT	A	B	C	D	E	DME I-MTG	NM	4.4	3.4	2.4	1.4	0.4
							DIST THR / RWY28	NM	4.3	3.3	2.3	1.3	0.3
ILS_DME	ILS	174 (148)	186 (160)	194 (168)	205 (179)	NA	Altitude	Ft	1485	1158	830	502	174
		GS	kt	80	100								180
		LM003-RWY28 (4.3NM)	min.sec	3:16	2:37								1.27
		Rate of descent (327.7ft/NM)	ft/min	430	540								980

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HLMS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

HLMS - MISRATA / Misrata International

HLMS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	N321931.25 E0150339.45 (WGS-84)
2	Direction and distance from (city)	7 km
3	Elevation/Reference temperature	35ft
4	Geoid undulation at AD ELEV PSN	Nil
5	MAG VAR/Annual change	3° E (2020)
6	AD Administration, address, telephone, telefax, AFS	LCAA Misrata International Airport Tel/Fax: 00218-512654091 Telex: 20353 CAA LY AFS: HLLTYFYX/HLLTYTYX SITA: TIPYAXS Email: aftn.amhs@gmail.com
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	Nil

HLMS AD 2.3 OPERATIONAL HOURS

1	AD Administration	SAT-SUN 0600-1300
2	Customs and immigration	H24
3	Health and sanitation	AVBL
4	AIS Briefing Office	NIL
5	ATS Reporting Office (ARO)	H24
6	Met Briefing Office	Nil
7	ATS	H24
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	Nil
12	Remarks	Nil

HLMS AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Available
2	Fuel/oil types	Jet A1
3	Fuelling facilities/capacity	Nil
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

HLMS AD 2.5 PASSENGER FACILITIES

1	Hotels	In the city
2	Restaurants	Available in the city
3	Transportation	Available
4	Medical facilities	Available
5	Bank and Post Office	Available
6	Tourist Office	Available
7	Remarks	Nil

HLMS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 8
2	Rescue equipment	Ambulance
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

HLMS AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Types of clearing equipment	Nil
2	Clearance priorities	Nil
3	Remarks	Nil

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

1	Apron surface and strength	Nil
2	Taxiway width, surface and strength	Nil
3	Altimeter checkpoint location and elevation	Nil
4	VOR checkpoints	Nil
5	INS checkpoints	Nil
6	Remarks	Nil

HLMS AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guidelines and visual docking/parking guidance system of aircraft stands	Nil
2	RWY and TWY markings and LGT	Nil
3	Stop bars	Nil
4	Remarks	Nil

HLMS AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			In circling area and at AD		Remarks
1			2		3
RWY NR. Area affected	Obstacle type Elevation Markings/LGT	Coord.	Obstacle type Elevation Markings/LGT	Coord.	
a	b	c	a	b	
Nil	Nil	Nil	Nil	Nil	Nil

HLMS AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	Available
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	Nil
4	Trend forecast Interval of issuance	Nil
5	Briefing/consultation provided	H24 Available
6	Flight documentation language(s) used	English
7	Charts and other information available for briefing or consultation	Nil
8	Supplementary equipment available for providing information	Nil
9	ATS units provided with information	Nil
10	Additional information (limitation of service, etc.)	Nil

HLMS AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coord. RWY end coord. THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
15	146°	3400 x 45	PCN 100 Asphalt	N322016.90 E0150302.80	THR 35 ft
33	326°			N321845.80 E0150416.20	THR 25 ft
Designations RWY NR	Slope of RWY - SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ
1	7	8	9	10	11
15	Nil	30 x 45	300 x 60	3580 x 300	Nil
33	Nil	30 x 45	300 x 60		Nil
Designations RWY NR	Remarks				
1	12				
15	Shoulder 7.5 m wide / Asphalt				
33					

HLMS AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
15	3400	3700	3430	3400	Nil
33	3400	3700	3430	3400	Nil

HLMS AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type LEN INTST	THR LGT color WBAR	VASIS (MEH) PAPI	TDZ, LGT LEN	RWY centre Line LGT Length, spacing color INTST	RWY edge LGT LEN, spacing color INTST	RWY End LGT color WBAR	SWY LGT LEN (m) color	Remarks
1	2	3	4	5	6	7	8	9	10
15	SALS	Yes	PAPI	Nil	Nil	Yes	Nil	Nil	Nil
33	SALS	Yes	PAPI	Nil	Nil	Yes	Nil	Nil	Nil

HLMS AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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

HLMS AD 2.16 HELICOPTER LANDING AREA

Nil

HLMS AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	MISRATA CTR A circle with radius of 20NM Centered on Misrata ARP N325331 E0131716
2	Vertical limits	SFC / 5000ft MSL
3	Airspace classification	C
4	ATS unit call sign language(s)	MISRATA TWR English / Arabic
5	Transition altitude/Transition level	5000 / FL70
6	Remarks	Nil

HLMS AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	Misrata Tower	118.500 MHz	H24	Nil
GND	Misrata Ground	121.950 MHz	H24	Nil
APP	Misrata Approach	123.200 MHz	H24	Nil

HLMS AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR CAT of ILS/MLS (For VOR/ILS/MLS, give declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 2°E	MIS	117.100 MHz CH118X	H24	N321852 E0150440	22 ft	Nil
NDB	AC	445 KHz	H24	N321436 E0150736	Nil	Nil
NDB	MS	330 KHz	H24	N322204 E0150123	Nil	Nil
ILS RWY 33 CAT II						
LOC	I-MIS	110.1MHz	H24	N322027.932 E015025.848	Nil	Nil
GP	I-MIS	334.4MHz	H24	N321856.44 E0150413.0		

HLMS AD 2.20 LOCAL TRAFFIC REGULATIONS

Nil

HLMS AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

HLMS AD 2.22 FLIGHT PROCEDURES
NIL**HLMS AD 2.23 ADDITIONAL INFORMATION**
Nil**HLMS AD 2.24 CHARTS RELATED TO THE AERODROME**

AERODROME CHART – ICAO AD 2 HLMS-7

INSTRUMENT APPROACH CHART – ICAO – VOR DME RWY 15 AD 2 HLMS-9

INSTRUMENT APPROACH CHART – ICAO – VOR DME RWY 33 AD 2 HLMS-11

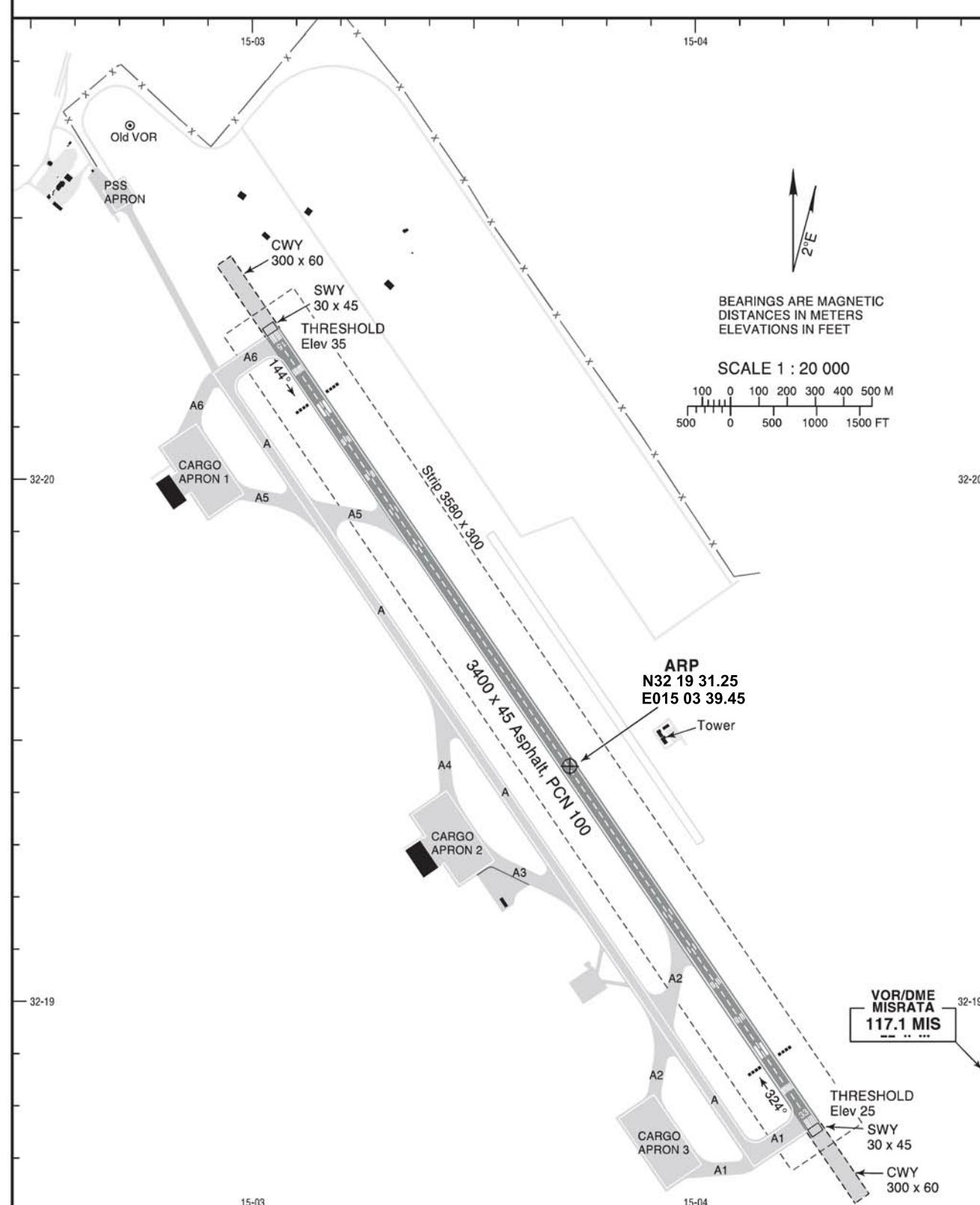
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AERODROME
CHART - ICAO

WGS-84

AD ELEV 35 FT

TWR 118.500
GND 121.950MISRATA, LIBYA
Misrata Intl

DECLARED DISTANCES

RWY	DIRECTION	THRESHOLD	DECLARED DISTANCES				AERODROME LIGHTING
			TORA	TODA	ASDA	LDA	
15	144° MAG	N 32 20 16.90 E 015 03 02.80	3400	3700	3430	3400	Rwy 15: SALS, PAPI, REDL Rwy 33: SALS, PAPI, REDL
33	324° MAG	N 32 18 45.80 E 015 04 16.20	3400	3700	3430	3400	

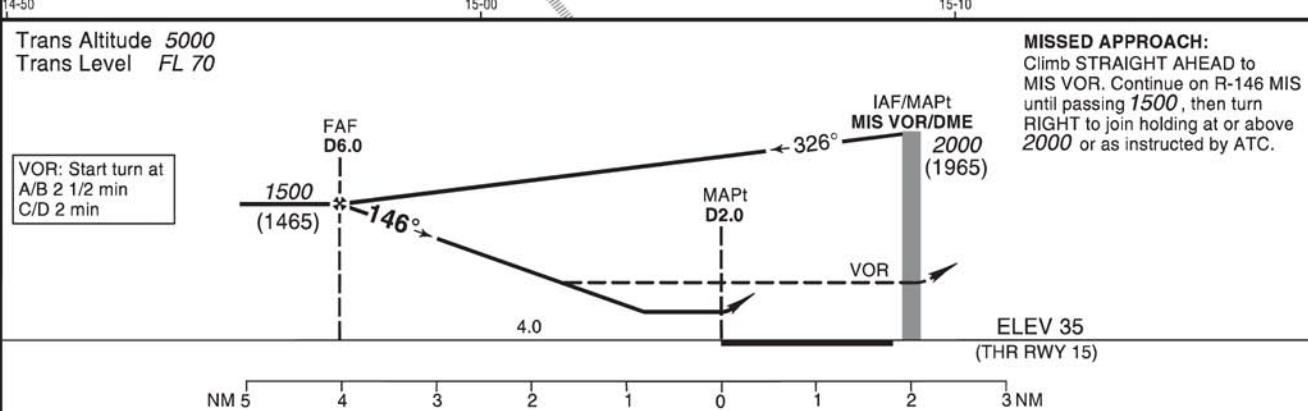
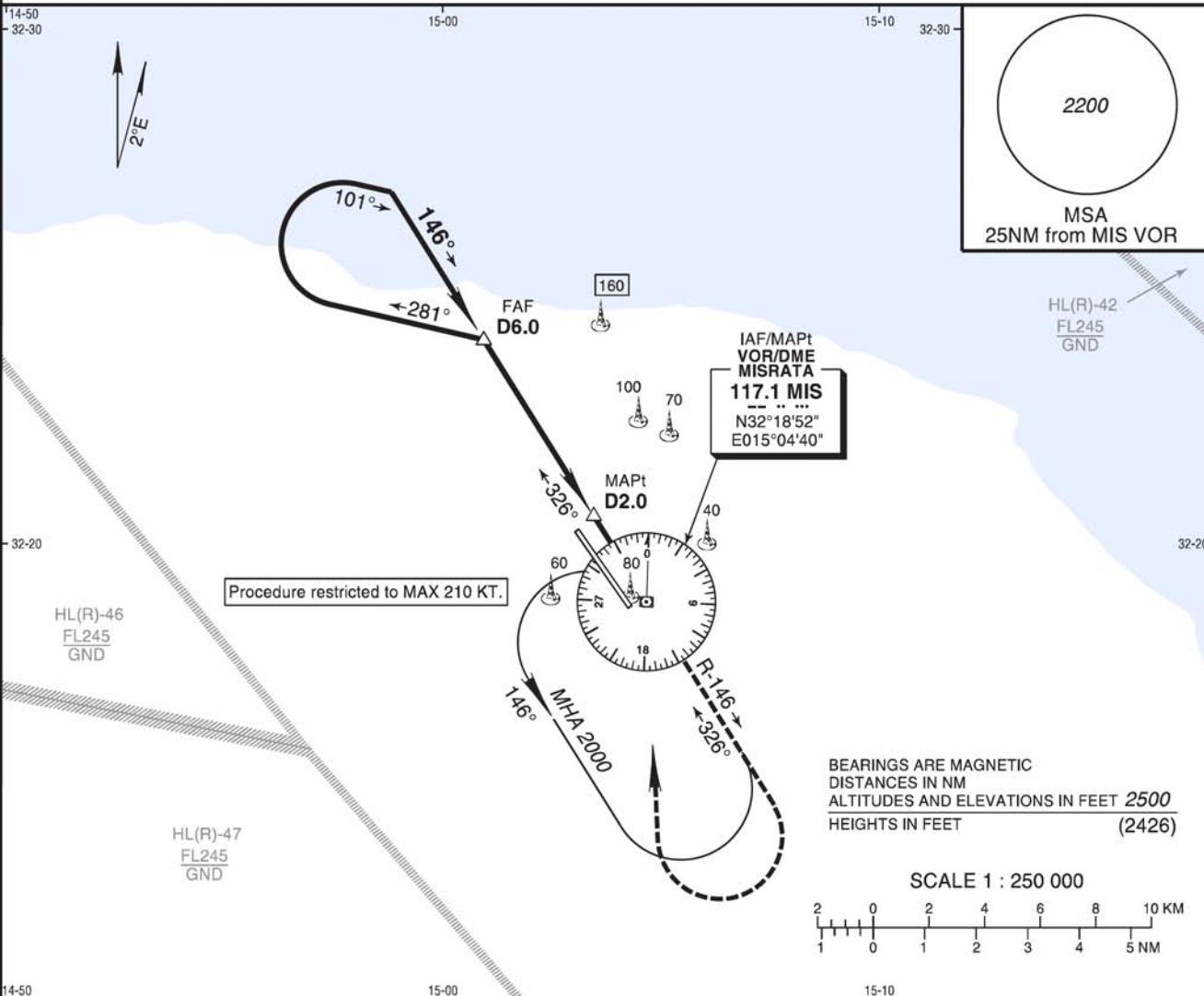
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INSTRUMENT
APPROACH
CHART - ICAOAD ELEV 35 FT
HEIGHTS RELATED TO
THR RWY 15 ELEV 35 FTAPP 123.200
TWR 118.500
GND 121.950

MISRATA, LIBYA

Misrata Intl

VOR DME RWY 15



MISSSED APPROACH:
Climb STRAIGHT AHEAD to
MIS VOR. Continue on R-146 MIS
until passing 1500, then turn
RIGHT to join holding at or above
2000 or as instructed by ATC.

STRAIGHT-IN APPROACH		A	B	C	D	* Not authorized North of airport.	
VOR DME	MDA(H)	500 (465)					
	VIS w/o lights	1200 1600		1600 2000			
VOR	MDA(H)	600 (565)					
	VIS w/o lights	1600 2000		2000 2400			
CIRCLING (HAT)*		A	B	C	D		
	MDA(H)	1000 (965)					
	VIS	1900	2800	3700	4600		

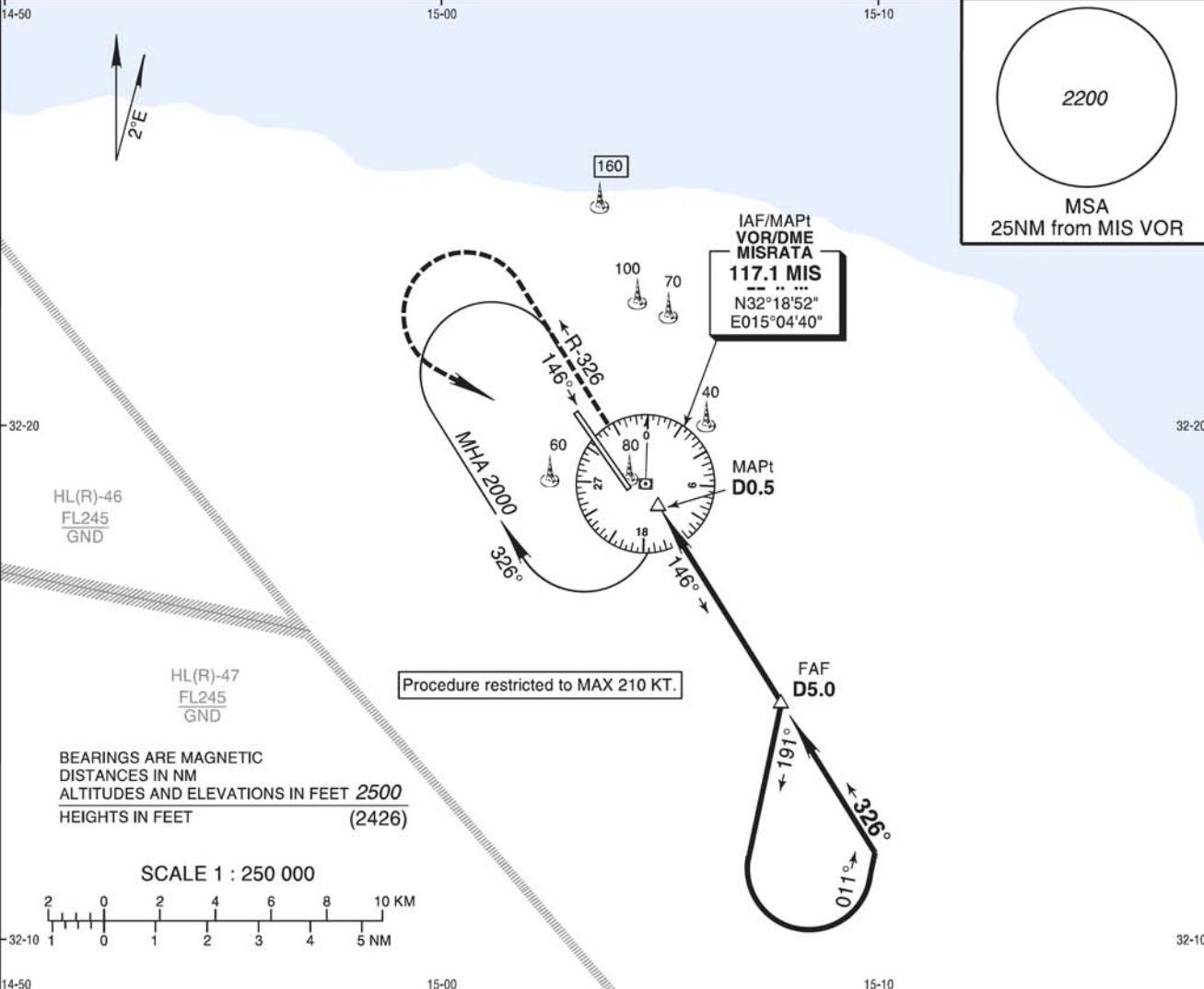
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INSTRUMENT
APPROACH
CHART - ICAOAD ELEV 35 FT
HEIGHTS RELATED TO
THR RWY 33 ELEV 25 FTAPP 123.200
TWR 118.500
GND 121.950

MISRATA, LIBYA

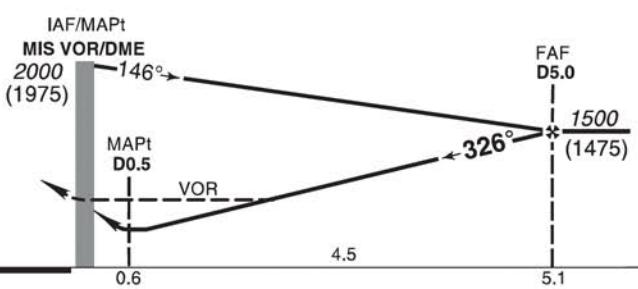
Misrata Intl

VOR DME RWY 33



MISSSED APPROACH:
Climb STRAIGHT AHEAD to MIS VOR. Continue on R-326 MIS until passing 1500, then turn LEFT to join holding at or above 2000 or as instructed by ATC.

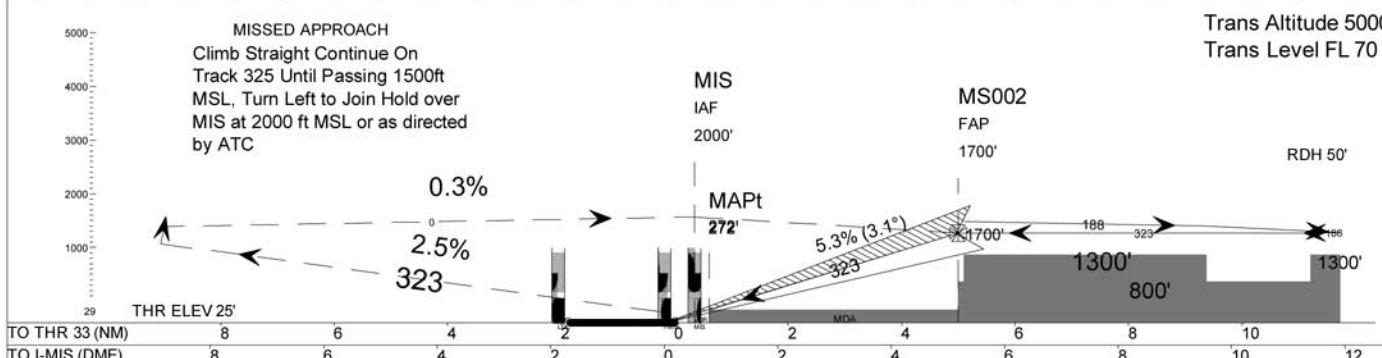
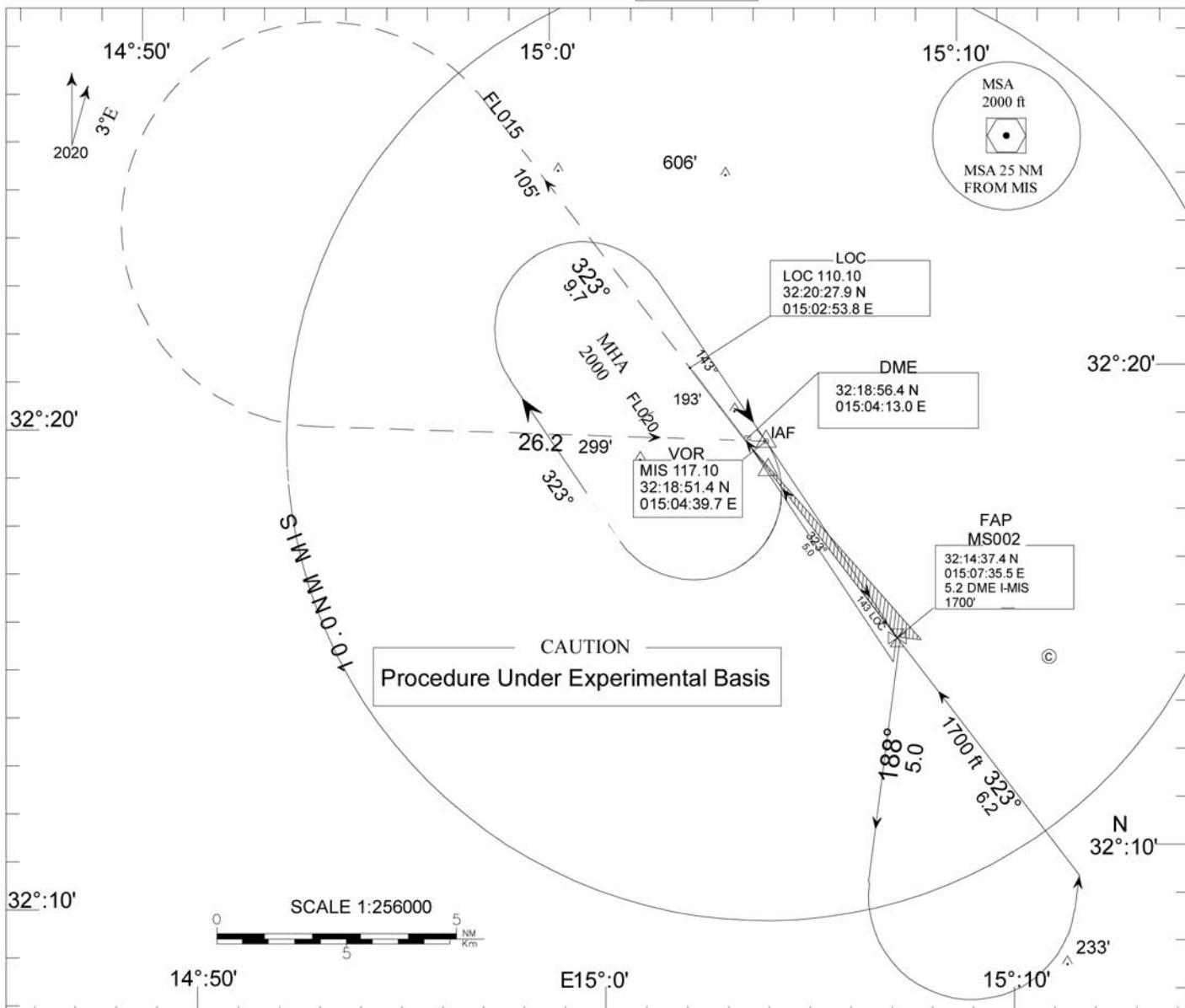
Trans Altitude 5000
Trans Level FL 70



VOR: Start turn at
A/B 2 min
C/D 1 1/2 min

STRAIGHT-IN APPROACH		A	B	C	D	* Not authorized North of airport.	
VOR DME	MDA(H)	500 (475)					
	VIS w/o lights	1200 1600		1600 2000			
VOR	MDA(H)	600 (575)					
	VIS w/o lights	1600 2000		2000 2400			
CIRCLING (HAT)*		A	B	C	D		
	MDA(H)	1000 (975)					
	VIS	1900	2800	3700	4600		

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INSTRUMENT
APPROACH
CHART - ICAOAD ELEV 35 (ft)
OCH RELATED TO
THR RWY 33-ELEV 25(ft)TWR 118.500
GND 121.950MISRATA , LIBYA
ILS or LOC
RWY 33

A/C Cat	OCA (OCH)				CIRCLING (HAA)	A	B	C	D	
	A	B	C	D		1000 (918)				
Cat 1	300 ft (270 ft)	310 ft (280 ft)	320 ft (290 ft)	330 ft (300 ft)	VIS	1900	2800	3700	4600	
LOC	450 (420)									

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