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**AIC:**  
**Nr. 001 / 2014 A**  
**EFF: 14-APR-2014**

## **VOLCANIC ASH OPERATION PROCEDURE FOR THE MALTA FIR**

Reference documents:

- ICAO Doc 9974 - [http://www.icao.int/publications/Documents/9974\\_en.pdf](http://www.icao.int/publications/Documents/9974_en.pdf)
- ICAO EUR/NAT Volcanic Ash Contingency Plan (VACP) (ICAO EUR Doc 019/NAT Doc 006 Part II) - [http://www.paris.icao.int/documents\\_open/files.php?subcategory\\_id=63](http://www.paris.icao.int/documents_open/files.php?subcategory_id=63)
- EASA Safety Information Bulletin (SIB) 2010-17R5 - <http://ad.easa.europa.eu/ad/2010-17R5>

### **1. Introduction**

The purpose of this AIC is to provide operators, owners and maintenance organisations with new guidance on aircraft operations where volcanic ash contamination may be a hazard for flight operations.

### **2. Key principles**

- The operator is responsible for the safety of its operations under the oversight of their respective State regulatory authority. The guiding principle for such operations is the use of a safety risk management approach, as described in ICAO Doc 9974 and [EASA Safety Information Bulletin \(SIB\) 2010-17R5](http://ad.easa.europa.eu/ad/2010-17R5).
- In order to consider whether or not to operate into airspace forecast to be, or aerodromes known to be, contaminated with volcanic ash, the operator should have in place an identifiable safety risk assessment (SRA) within its Safety Management System (SMS).
- In order to decide whether or not to operate into airspace forecast to be, or aerodromes known to be, contaminated with volcanic ash, the operator's SRA must be accepted by its State regulatory authority.
- The safety control measures set out in ICAO Doc 9974 and [EASA Safety Information Bulletin \(SIB\) 2010-17R5](http://ad.easa.europa.eu/ad/2010-17R5) are intended to be sufficiently robust that they facilitate acceptance, without further investigation, by a State whose airspace is forecast to be affected by volcanic ash. The State can – based on the implementation of internationally accepted Safety Management principles - be confident in the ability of operators from other States to undertake operations safely in its airspace.

### **3. Terminology**

The following definitions of contamination are applicable in Malta regarding operation of aircraft in airspace contaminated with volcanic ash.

- Area of Low Contamination: Airspace of defined dimensions where volcanic ash may be encountered at concentrations equal to or less than  $2 \times 10^{-3} \text{ g/m}^3$ . (Cyan)
- Area of Medium Contamination: Airspace of defined dimensions where volcanic ash may be encountered at concentrations greater than  $2 \times 10^{-3} \text{ g/m}^3$ , but less than  $4 \times 10^{-3} \text{ g/m}^3$ . (Grey)

- Area of High Contamination: Airspace of defined dimensions where volcanic ash may be encountered at concentrations equal to or greater than  $4 \times 10^{-3} \text{ g/m}^3$ , or areas of contaminated airspace where no ash concentration guidance is available. (Red)

These definitions are consistent ICAO EUR/NAT Volcanic Ash Contingency Plan (VACP) (ICAO EUR Doc 019/NAT Doc 006 Part II) and [EASA Safety Information Bulletin \(SIB\) 2010-17R5](#).

## **4. SRA application in Malta**

### **4.1 Areas of ash contamination**

In Malta Aircraft Operators will be allowed to make decisions based on their SRA in the forecast areas of low, medium and high ash contamination. Therefore, Malta will allow operators to make decisions based on their SRA, as accepted by their respective State regulatory authority, in forecast areas of low, medium and high ash contamination.

### **4.2 Common SRA recognition**

As part of its overall decision making process regarding the operation of aircraft in airspace forecast to be, or aerodromes known to be, contaminated with volcanic ash, Malta will allow aircraft operators registered in other States to base their decisions on their SRA, as accepted by their State regulatory authority, in accordance with the above mentioned approach (see 4.1) to decision making in Malta.

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**Nr. 003 / 2014 A**

**EFF: 13-Nov-2014**

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## **FLIGHTS DEPARTING FROM LIBYA AND LANDING IN MALTA**

All operators are advised that when requesting to land in Malta and the airport of origin is anywhere in Libya, they must submit a request to the Maltese Civil Aviation Directorate. The request shall also include a passenger manifest and also specify if any cargo and or mail will be carried on board the aircraft even if this will remain on board while the aircraft is in Malta.

Operators are advised that no aircraft originating from Libya shall be allowed to land in Malta unless a permit from the Civil Aviation Directorate has been issued.

All request should be sent on email: [dutyofficer.cad@transport.gov.mt](mailto:dutyofficer.cad@transport.gov.mt). For any information regarding these permits, the Civil Aviation Directorate Duty officer may be contacted on +356 79245205.

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## PART 1 - GENERAL (GEN)

### GEN 0

#### GEN 0.1 PREFACE

##### 1. Name of the publishing authority

- 1.1 The AIP MALTA is published by the Civil Aviation Directorate — Transport Malta.

##### 2. Applicable ICAO documents

- 2.1 The AIP is prepared in accordance with the Standards and Recommended Practices (SRPs) of Annex 15 to the Chicago Convention and the *Aeronautical Information Services Manual* (ICAO Doc. 8126 - AN 872). Charts contained in the AIP are produced in accordance with Annex 4 to the Chicago Convention and the *Aeronautical Chart Manual* (ICAO Doc. 8697 - AN 889). Differences from ICAO Standards, Recommended Practices and Procedures are given in Subsection GEN 1.7.

##### 3. The AIP structure and amendment interval

###### 3.1 The AIP structure

The AIP forms part of the Integrated Aeronautical Information Package, details of which are given in subsection GEN 3.1. The principal AIP structure is shown in graphic form on page GEN 0.1-3. The AIP is made up of three parts, General (GEN), En-route (ENR) and Aerodromes (AD), each divided into sections and subsections as applicable, containing various types of information subjects.

###### 3.2 Part 1 — General (GEN)

- 3.2.1 Part 1 consists of five sections containing information as briefly described hereafter.

*GEN 0.* — Preface; Record of AIP Amendments; Record of AIP Supplements; Checklist of AIP pages; List of hand amendments to the AIP; and the Table of Contents to Part 1.

*GEN 1. National regulations and requirements* — Designated authorities; Entry, transit and departure of aircraft; Entry, transit and departure of passengers and crew; Entry, transit and departure of cargo; Aircraft instruments, equipment and flight documents; Summary of national regulations and international agreements/conventions; and Differences from ICAO Standards, Recommended Practices and Procedures.

*GEN 2. Tables and codes* — Measuring system, aircraft markings, holidays; Abbreviations used in AIS publications; Chart symbols; Location indicators; List of radio navigation aids; Conversion tables; and Sunrise/Sunset tables.

*GEN 3. Services* — Aeronautical information services; Aeronautical charts; Air traffic services; Communication services; Meteorological services; and Search and rescue.

*GEN 4. Charges for aerodromes/heliports and air navigation services* — Aerodrome/heliport charges; and Air navigation services charges.

###### 3.3 Part 2 — En-route (ENR)

- 3.3.1 Part 2 consists of seven sections containing information as briefly described hereafter.

*ENR 0* — Preface; Record of AIP Amendments; Record of AIP Supplements; Checklist of AIP pages; List of hand amendments to the AIP; and the Table of Contents to Part 2.

*ENR 1. General rules and procedures* — General rules; Visual flight rules; Instrument flight rules; ATS airspace classification; Holding, approach and departure procedures; Radar services and procedures; Altimeter setting procedures; Regional supplementary procedures; Air traffic flow management; Flight planning; Addressing of flight plan messages; Interception of civil aircraft; Unlawful interference; and Air traffic incidents.

*ENR 2. Air traffic services airspace* — Detailed description of Flight information region (FIR); Upper flight information region (UIR); Terminal control area (TMA); and Other regulated airspace.

*ENR 3. ATS routes* — Detailed description of Lower ATS routes; Upper ATS (RNAV) routes; Area navigation routes; Helicopter routes; Other routes; and En-route holding.

*Note: Other types of routes which are specified in connection with procedures for traffic to and from aerodromes/heliports are described in the relevant sections and subsections of Part 3 — Aerodromes.*

*ENR 4. Radio navigation aids/systems* — Radio navigation aids - en-route; Special navigation systems; Name-code designators for significant points; and Aeronautical ground lights — en-route.

*ENR 5. Navigation warnings* — Prohibited, restricted and danger areas; Military exercise and training areas; Other activities of a dangerous nature; Air navigation obstacles - en-route; Aerial sporting and recreational activities; and Bird migration and areas with sensitive fauna.

*ENR 6. En-route charts*

### 3.4 **Part 3 - Aerodromes (AD)**

3.4.1 Part 3 consists of four sections containing information as briefly described hereafter.

*AD 0.* — Preface; Record of AIP Amendments; Record of AIP Supplements; Checklist of AIP pages; List of hand amendments to the AIP; and the Table of Contents to Part 3.

*AD 1. Aerodromes/Heliports - Introduction* — Aerodrome/heliport availability; Rescue and fire fighting services; Index to aerodromes and heliports; and Grouping of aerodromes/heliports.

*AD 2. Aerodromes* — Detailed information about aerodromes, listed under 24 subsections.

*AD 3. Heliports* — Detailed information about heliports (not located at aerodromes), listed under 14 subsections.

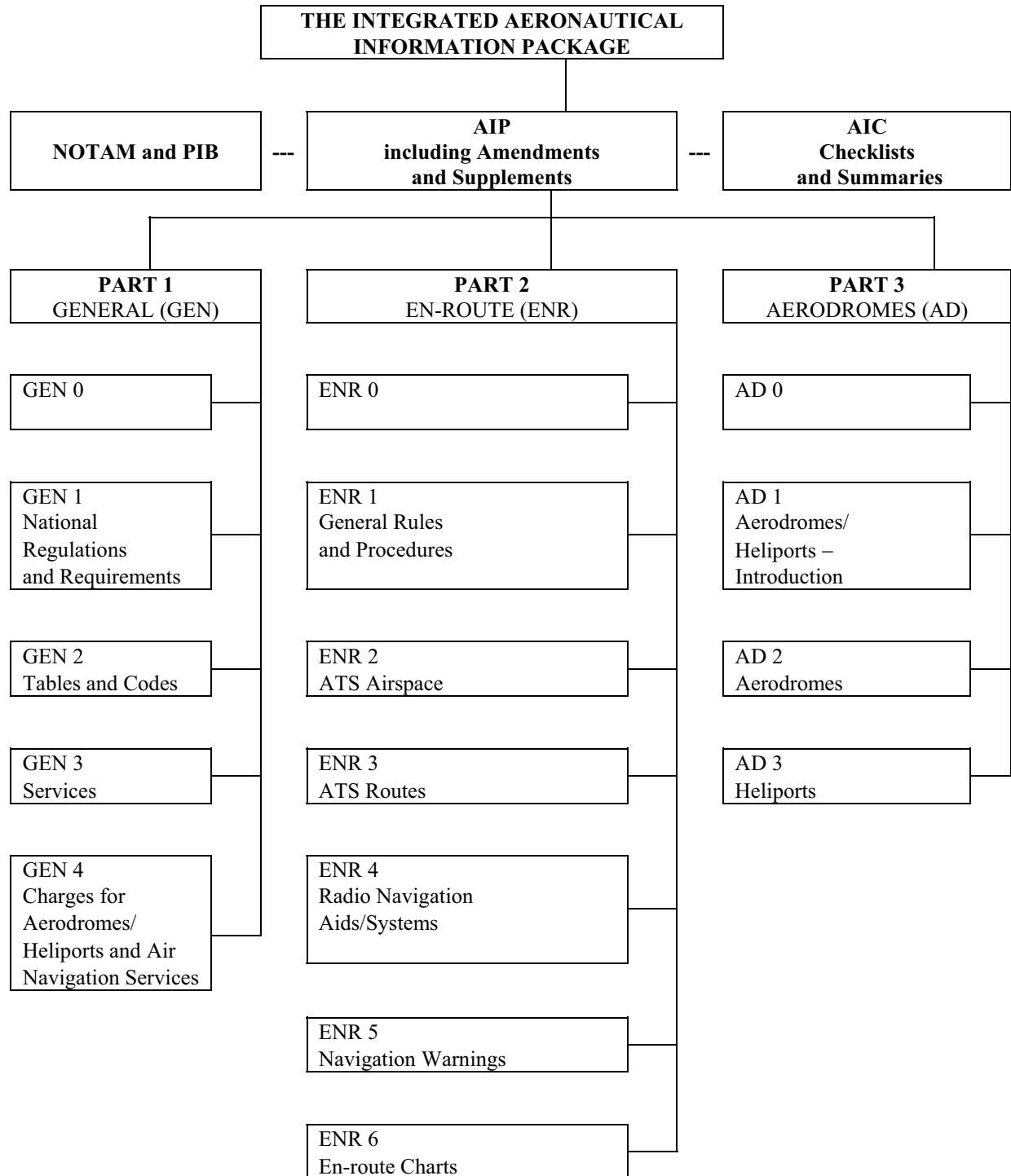
### 3.5 **Regular amendment interval**

3.5.1 Amendments to the AIP will be issued when required.

## 4. **Service to contact in case of detected AIP errors or omissions**

4.1 In the compilation of the AIP, care has been taken to ensure that the information contained therein is accurate and complete. Any errors or omissions which may nevertheless be detected, as well as any correspondence concerning the Integrated Aeronautical Information Package, should be referred to:

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**GEN 0.2 RECORD OF AIP AMENDMENTS**

<b>AIRAC AIP Amendments</b>			
NR/Year	Publication date	Effective date	Inserted by
001/2014	17-Apr-2014	29-May-2014	
002/2014	12-Jun-2014	24-Jul-2014	
003/2014	02-Oct-2014	13-Nov-2014	
004/2014	30-Oct-2014	11-Dec-2014	
005/2015	19-Mar-2015	30-Apr-2015	
006/2015	14-May-2015	25-Jun-2015	
007/2015	03-Sep-2015	15-Oct-2015	
008/2015	29-Oct-2015	10-Dec-2015	
009/2015	24-Dec-2015	04-Feb-2016	
010/2016	25-Jan-2016	31-Mar-2016	
011/2016	18-Feb-2016	28-Apr-2016	
012/2016	23-Mar-2016	26-May-2016	
013/2016	09-Jun-2016	21-Jul-2016	
014/2016	01-Sep-2016	13-Oct-2016	
015/2016	16-Oct-2016	08-Dec-2016	
016/2017	24-Nov-2016	05-Jan-2017	
017/2017	11-May-2017	22-Jun-2017	
018/2017	06-Jul-2017	17-Aug-2017	
019/2018	15-Nov-2017	04-Jan-2018	
020/2018	15-Feb-2018	29-Mar-2018	
021/2018	29-Mar-2018	24-May-2018	
022/2018	10-May-2018	21-Jun-2018	
023/2018	05-Jul-2018	16-Aug-2018	
024/2018	02-Aug-2018	13-Sep-2018	
025/2018	30-Aug-2018	11-Oct-2018	
026/2018	27-Sep-2018	08-Nov-2018	
027/2018	25-Oct-2018	06-Dec-2018	
028/2019	20-Dec-2018	31-Jan-2019	
029/2019	14-Feb-2019	28-Mar-2019	
030/2019	14-Mar-2019	25-Apr-2019	
031/2019	09-May-2019	20-Jun-2019	
032/2019	01-Aug-2019	12-Sep-2019	
033/2019	26-Sep-2019	07-Nov-2019	
034/2020	19-Dec-2019	30-Jan-2020	
035/2020	12-Mar-2020	23-Apr-2020	
036/2020	02-Jul-2020	13-Aug-2020	
037/2020	27-Aug-2020	08-Oct-2020	
038/2020	24-Sep-2020	05-Nov-2020	

AIRAC AIP Amendments			
NR/Year	Publication date	Effective date	Inserted by
039/2020	22-Oct-2020	03-Dec-2020	
040/2021	11-Mar-2021	22-Apr-2021	
041/2021	08-Apr-2021	20-May-2021	
042/2021	03-Jun-2021	15-Jul-2021	

AIP Amendments			
NR/Year	Publication date	Date inserted	Inserted by
001/2014	21-Nov-2014	21-Nov-2014	

**GEN 0.3 RECORD OF AIP SUPPLEMENTS**

NR/Year	Subject	AIP Section(s) Affected	Period of Validity	Cancellation Record
001/2014	Upgrading Works on Taxiway E at Malta International Airport (LMML)	AD	From 11-Feb-2014	End Date: 30-Mar-2014
002/2014	Temporary Diversion of Vehicular Traffic on Apron 9 at Malta International Airport	AD	From 14-Feb-2014	End Date: 30-Mar-2014
001/2015	Upgrading Works on Taxiway Charlie at Malta International Airport (LMML)	AD	From 05-Feb-2015	End Date: 28-Mar-2015
002/2015	New Aircraft Parking Layout on Apron 2	AD	From 20-Aug-2015	End Date: 15-Oct-2015
003/2015	Turn and Hold Markings on Taxiway H	AD	From 20-Aug-2015	End Date: 15-Oct-2015
001/2016	Pavement Rehabilitation Works on Apron 9 at Malta International Airport	AD	From 12-Feb-2016	End Date: 09-Apr-2016
002/2016	Construction of Code B Hangar Access Route at Malta International Airport (Opposite Taxiway Delta)	AD	From 12-Feb-2016	End Date: 31-Mar-2016
003/2016	Pavement Rehabilitation Works at Malta International Airport Apron 9 West	AD	From 27-Sep-2016	End Date: 27-Nov-2016
004/2016	Replacement of Instrument Landing System (ILS) at Malta International Airport (LMML)	AD	From 03-Oct-2016	End Date: 30-Oct-2016
001/2017	Upgrading of Taxiway Bravo at Malta International Airport (LMML)	AD	From 09-Jan-2017	End Date: 12-Feb-2017
002/2017	Upgrading of Taxiway Bravo at Malta International Airport (LMML)	AD	From 13-Feb-2017	End Date: 31-May-2017
003/2017	Reconstruction of Service Drive — Pre-Threshold Area Runway 23 Malta International Airport (LMML)	AD	From 16-Oct-2017	End Date: 12-Dec-2017
001/2018	Upgrading Works on Taxiway Delta at Malta International Airport (LMML)	AD	From 05-Feb-2018	End Date: 26-Mar-2018
002/2018	Pavement Rehabilitation Works at Malta International Airport Apron 8 — Phase II and Phase III	AD	From 10-Dec-2018	End Date: 30-Mar-2019
001/2019	Pavement Rehabilitation Works on Taxiway Echo at Malta International Airport (LMML)	AD	From 14-Jan-2019	End Date: 22-Mar-2019
001/2020	Pavement Rehabilitation of Taxilane India (Apron 8) at Malta International Airport	AD	From 06-Jan-2020	End Date: 27-Mar-2020
002/2020	Pavement Rehabilitation and Upgrading of the Fire Lane leading to Runway 13/31 at Malta International Airport	AD	From 13-Jan-2020	End Date: 27-Mar-2020
003/2020	Replacement of Runway 05 Approach Lights at Malta International Airport (MIA)	AD	From 05-May-2020	End Date: 17-Jul-2020

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## PART 1 - GENERAL (GEN)

## PART 2 - EN-ROUTE (ENR)

ENR-5.1 - 2	13 SEP 2018	AD 2 LMML - 15	03 DEC 2020	AD 2-LMML-MISC-VC1 - 1	03 APR 2014
ENR-5.2 - 1	16 AUG 2018	AD 2 LMML - 16	03 DEC 2020	AD 2-LMML-MISC-VC1 - 2	03 APR 2014
ENR-5.2 - 2	17 AUG 2017	AD 2 LMML - 17	03 DEC 2020	AD 2-LMML-MISC-VC2 - 1	03 APR 2014
ENR-5.3 - 1	03 APR 2014	AD 2 LMML - 18	22 APR 2021	AD 2-LMML-MISC-VC2 - 2	03 APR 2014
ENR-5.3 - 2	03 APR 2014	AD 2 LMML - 19	03 DEC 2020	AD 2-LMML-MISC-VC3 - 1	03 APR 2014
ENR-5.4 - 1	08 NOV 2018	AD 2 LMML - 20	03 DEC 2020	AD 2-LMML-MISC-VC3 - 2	03 APR 2014
ENR-5.4 - 2	08 NOV 2018	AD 2 LMML - 21	03 DEC 2020	AD 2-LMML-MISC-VC4 - 1	05 JAN 2017
ENR-5.5 - 1	04 FEB 2016	AD 2 LMML - 22	03 DEC 2020	AD 2-LMML-MISC-VC4 - 2	05 JAN 2017
ENR-5.5 - 2	04 FEB 2016	AD 2 LMML - 23	03 DEC 2020	AD 2-LMML-MISC-VC5 - 1	03 APR 2014
ENR-5.6 - 1	03 APR 2014	AD 2 LMML - 24	03 DEC 2020	AD 2-LMML-MISC-VC5 - 2	03 APR 2014
ENR-5.6 - 2	03 APR 2014	AD 2 LMML - 25	03 DEC 2020	AD 2-LMML-MISC-VC6 - 1	03 APR 2014
ENR-6 - 1	13 SEP 2018	AD 2 LMML - 26	03 DEC 2020	AD 2-LMML-MISC-VC6 - 2	03 APR 2014
ENR-6 - 2	13 SEP 2018	AD 2 LMML - 27	03 DEC 2020	AD 2-LMML-MISC-VC7 - 1	03 APR 2014
ENR 6-LMMM-AAR-FALCON - 1	26 MAY 2016	AD 2 LMML - 28	03 DEC 2020	AD 2-LMML-MISC-VC7 - 2	03 APR 2014
ENR 6-LMMM-AAR-FALCON - 2	26 MAY 2016	AD 2-LMML-ADC - 1	03 DEC 2020	AD 2-LMML-MISC-VC8 - 1	05 JAN 2017
ENR 6-LMMM-AAR-OSPREY - 1	26 MAY 2016	AD 2-LMML-ADC - 2	03 DEC 2020	AD 2-LMML-MISC-VC8 - 2	05 JAN 2017
ENR 6-LMMM-AAR-OSPREY - 2	26 MAY 2016	AD 2-LMML-APDC-APN2 - 1	05 NOV 2020	AD 3 LMMG - 1	16 AUG 2018
ENR 6-LMMM-TTA1 - 1	17 AUG 2017	AD 2-LMML-APDC-APN2 - 2	05 NOV 2020	AD 3 LMMG - 2	16 AUG 2018
ENR 6-LMMM-TTA1 - 2	17 AUG 2017	AD 2-LMML-APDC-APN3 - 1	05 NOV 2020	AD 3-LMMG-HPC - 1	16 AUG 2018
ENR 6-LMMM-TTA2 - 1	17 AUG 2017	AD 2-LMML-APDC-APN3 - 2	05 NOV 2020	AD 3-LMMG-HPC - 2	16 AUG 2018
ENR 6-LMMM-TTA2 - 2	17 AUG 2017	AD 2-LMML-APDC-APNLTM - 1	23 APR 2020		
ENR 6-LMMM-TTA3 - 1	17 AUG 2017	AD 2-LMML-APDC-APNLTM - 2	23 APR 2020		
ENR 6-LMMM-TTA3 - 2	17 AUG 2017	AD 2-LMML-APDC-APN5 - 1	05 NOV 2020		
ENR 6-LMMM-DA - 1	13 SEP 2018	AD 2-LMML-APDC-APN5 - 2	05 NOV 2020		
ENR 6-LMMM-DA - 2	13 SEP 2018	AD 2-LMML-APDC-APN7 - 1	16 AUG 2018		
ENR 6-LMMM-TCA - 1	29 MAR 2018	AD 2-LMML-APDC-APN7 - 2	16 AUG 2018		
ENR 6-LMMM-TCA - 2	29 MAR 2018	AD 2-LMML-APDC-APN8 - 1	30 JAN 2020		
ENR 6-LMMM-COA - 1	08 DEC 2016	AD 2-LMML-APDC-APN8 - 2	30 JAN 2020		
ENR 6-LMMM-COA - 2	08 DEC 2016	AD 2-LMML-APDC-APN9 - 1	22 APR 2021		
ENR 6-LMMM-ASC-FIR - 1	25 JUN 2015	AD 2-LMML-APDC-APN9 - 2	22 APR 2021		
ENR 6-LMMM-ASC-FIR - 2	25 JUN 2015	AD 2-LMML-APDC-APNSAF - 1	23 APR 2020		
ENR 6-LMMM-ASC-UIR - 1	08 DEC 2016	AD 2-LMML-APDC-APNSAF - 2	23 APR 2020		
ENR 6-LMMM-ASC-UIR - 2	08 DEC 2016	AD 2-LMML-AGMC - 1	15 JUL 2021		
ENR 6-LMMM-ERC - 1	30 JAN 2020	AD 2-LMML-AGMC - 2	15 JUL 2021		
ENR 6-LMMM-ERC - 2	30 JAN 2020	AD 2-LMML-AOC-A-RWY13-31 - 1	03 DEC 2020		
ENR 6-LMMM-FIR-W - 1	30 JAN 2020	AD 2-LMML-AOC-A-RWY13-31 - 2	03 DEC 2020		
ENR 6-LMMM-FIR-W - 2	30 JAN 2020	AD 2-LMML-AOC-A-RWY23-05 - 1	15 JUL 2021		
ENR 6-LMMM-FIR-E - 1	30 JAN 2020	AD 2-LMML-AOC-A-RWY23-05 - 2	15 JUL 2021		
ENR 6-LMMM-FIR-E - 2	30 JAN 2020	AD 2-LMML-AOC-B - 1	15 JUL 2021		
ENR 6-LMMM-UIR-W - 1	30 JAN 2020	AD 2-LMML-AOC-B - 2	15 JUL 2021		
ENR 6-LMMM-UIR-W - 2	30 JAN 2020	AD 2-LMML-PATC13 - 1	07 NOV 2019		
ENR 6-LMMM-UIR-E - 1	30 JAN 2020	AD 2-LMML-PATC13 - 2	07 NOV 2019		
ENR 6-LMMM-UIR-E - 2	30 JAN 2020	AD 2-LMML-PATC31 - 1	07 NOV 2019		
ENR 6-LMMM-FRA - 1	30 JAN 2020	AD 2-LMML-PATC31 - 2	07 NOV 2019		
ENR 6-LMMM-FRA - 2	30 JAN 2020	AD 2-LMML-SMAC - 1	08 NOV 2018		
		AD 2-LMML-SMAC - 2	08 NOV 2018		
		AD 2-LMML-SID05 - 1	30 JAN 2020		
		AD 2-LMML-SID05 - 2	30 JAN 2020		
		AD 2-LMML-SID13 - 1	30 JAN 2020		
		AD 2-LMML-SID13 - 2	30 JAN 2020		
		AD 2-LMML-SID23 - 1	30 JAN 2020		
		AD 2-LMML-SID23 - 2	30 JAN 2020		
		AD 2-LMML-SID31 - 1	30 JAN 2020		
		AD 2-LMML-SID31 - 2	30 JAN 2020		
		AD 2-LMML-IAC-ILS13 - 1	30 JAN 2020		
		AD 2-LMML-IAC-ILS13 - 2	24 MAY 2018		
		AD 2-LMML-IAC-ILS31 - 1	30 JAN 2020		
		AD 2-LMML-IAC-ILS31 - 2	24 MAY 2018		
		AD 2-LMML-IAC-RNP05 - 1	30 JAN 2020		
		AD 2-LMML-IAC-RNP05 - 2	16 AUG 2018		
		AD 2-LMML-IAC-RNP13 - 1	30 JAN 2020		
		AD 2-LMML-IAC-RNP13 - 2	16 AUG 2018		
		AD 2-LMML-IAC-RNP23 - 1	30 JAN 2020		
		AD 2-LMML-IAC-RNP23 - 2	16 AUG 2018		
		AD 2-LMML-IAC-RNP31 - 1	30 JAN 2020		
		AD 2-LMML-IAC-RNP31 - 2	16 AUG 2018		
		AD 2-LMML-VAC31 - 1	25 APR 2019		
		AD 2-LMML-VAC31 - 2	25 APR 2019		
		AD 2-LMML-MISC-ARSA - 1	23 APR 2020		
		AD 2-LMML-MISC-ARSA - 2	23 APR 2020		
		AD 2-LMML-MISC-CA - 1	31 JAN 2019		
		AD 2-LMML-MISC-CA - 2	31 JAN 2019		
		AD 2-LMML-MISC-LVA - 1	29 MAR 2018		
		AD 2-LMML-MISC-LVA - 2	10 DEC 2015		
		AD 2-LMML-MISC-VRP - 1	31 JAN 2019		
		AD 2-LMML-MISC-VRP - 2	31 JAN 2019		
		AD 2-LMML-MISC-SVA - 1	31 JAN 2019		
		AD 2-LMML-MISC-SVA - 2	31 JAN 2019		
		AD 2-LMML-MISC-SVD - 1	13 SEP 2018		
		AD 2-LMML-MISC-SVD - 2	21 NOV 2014		
		AD 2-LMML-MISC-CHA1 - 1	31 JAN 2019		
		AD 2-LMML-MISC-CHA1 - 2	31 JAN 2019		
		AD 2-LMML-MISC-CHA2 - 1	03 APR 2014		
		AD 2-LMML-MISC-CHA2 - 2	03 APR 2014		
		AD 2-LMML-MISC-CHA3 - 1	31 JAN 2019		
		AD 2-LMML-MISC-CHA3 - 2	31 JAN 2019		

**PART 3 - AERODROMES (AD)**

AD-0.1 - 1	03 APR 2014	AD 2-LMML-SID05 - 1	30 JAN 2020
AD-0.1 - 2	03 APR 2014	AD 2-LMML-SID05 - 2	30 JAN 2020
AD-0.2 - 1	03 APR 2014	AD 2-LMML-SID13 - 1	30 JAN 2020
AD-0.2 - 2	03 APR 2014	AD 2-LMML-SID13 - 2	30 JAN 2020
AD-0.3 - 1	03 APR 2014	AD 2-LMML-SID23 - 1	30 JAN 2020
AD-0.3 - 2	03 APR 2014	AD 2-LMML-SID23 - 2	30 JAN 2020
AD-0.4 - 1	03 APR 2014	AD 2-LMML-SID31 - 1	30 JAN 2020
AD-0.4 - 2	03 APR 2014	AD 2-LMML-SID31 - 2	30 JAN 2020
AD-0.5 - 1	03 APR 2014	AD 2-LMML-IAC-ILS13 - 1	30 JAN 2020
AD-0.5 - 2	03 APR 2014	AD 2-LMML-IAC-ILS13 - 2	24 MAY 2018
AD-0.6 - 1	15 JUL 2021	AD 2-LMML-IAC-ILS31 - 1	30 JAN 2020
AD-0.6 - 2	15 JUL 2021	AD 2-LMML-IAC-ILS31 - 2	24 MAY 2018
AD-1.1 - 1	28 MAR 2019	AD 2-LMML-IAC-RNP05 - 1	30 JAN 2020
AD-1.1 - 2	28 MAR 2019	AD 2-LMML-IAC-RNP05 - 2	16 AUG 2018
AD-1.2 - 1	15 JUL 2021	AD 2-LMML-IAC-RNP13 - 1	30 JAN 2020
AD-1.2 - 2	15 JUL 2021	AD 2-LMML-IAC-RNP13 - 2	16 AUG 2018
AD-1.2 - 3	15 JUL 2021	AD 2-LMML-IAC-RNP23 - 1	30 JAN 2020
AD-1.2 - 4	15 JUL 2021	AD 2-LMML-IAC-RNP23 - 2	16 AUG 2018
AD-1.3 - 1	16 AUG 2018	AD 2-LMML-IAC-RNP31 - 1	30 JAN 2020
AD-1.3 - 2	03 APR 2014	AD 2-LMML-IAC-RNP31 - 2	16 AUG 2018
AD-1.4 - 1	16 AUG 2018	AD 2-LMML-VAC31 - 1	25 APR 2019
AD-1.4 - 2	16 AUG 2018	AD 2-LMML-VAC31 - 2	25 APR 2019
AD-1.5 - 1	20 MAY 2021	AD 2-LMML-MISC-ARSA - 1	23 APR 2020
AD-1.5 - 2	20 MAY 2021	AD 2-LMML-MISC-ARSA - 2	23 APR 2020
AD 2 LMML - 1	11 OCT 2018	AD 2-LMML-MISC-CA - 1	31 JAN 2019
AD 2 LMML - 2	03 DEC 2020	AD 2-LMML-MISC-CA - 2	31 JAN 2019
AD 2 LMML - 3	03 DEC 2020	AD 2-LMML-MISC-LVA - 1	29 MAR 2018
AD 2 LMML - 4	22 APR 2021	AD 2-LMML-MISC-LVA - 2	10 DEC 2015
AD 2 LMML - 5	15 JUL 2021	AD 2-LMML-MISC-VRP - 1	31 JAN 2019
AD 2 LMML - 6	15 JUL 2021	AD 2-LMML-MISC-VRP - 2	31 JAN 2019
AD 2 LMML - 7	03 DEC 2020	AD 2-LMML-MISC-SVA - 1	31 JAN 2019
AD 2 LMML - 8	03 DEC 2020	AD 2-LMML-MISC-SVA - 2	31 JAN 2019
AD 2 LMML - 9	03 DEC 2020	AD 2-LMML-MISC-SVD - 1	13 SEP 2018
AD 2 LMML - 10	15 JUL 2021	AD 2-LMML-MISC-SVD - 2	21 NOV 2014
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AD 2 LMML - 13	03 DEC 2020	AD 2-LMML-MISC-CHA2 - 1	03 APR 2014
AD 2 LMML - 14	03 DEC 2020	AD 2-LMML-MISC-CHA2 - 2	03 APR 2014
		AD 2-LMML-MISC-CHA3 - 1	31 JAN 2019
		AD 2-LMML-MISC-CHA3 - 2	31 JAN 2019

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<i>AIP page(s) affected</i>	<i>Amendment text</i>	<i>Introduced by AIP</i>
		<i>Amendment NR</i>

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## GEN 1 NATIONAL REGULATIONS AND REQUIREMENTS

### GEN 1.1 DESIGNATED AUTHORITIES

The addresses of the designated authorities concerned with facilitation of international air navigation are as follows:

#### 1. Civil aviation

##### 1.1 Director General for Civil Aviation

Transport Malta  
Civil Aviation Directorate  
Malta Transport Centre  
Pantar Road  
Lija, LJA 2021  
Malta  
Phone: (356) 77 42 95 49 (Mobile)  
Phone: (356) 25 55 56 42 (Office)  
Email: [civil.aviation@transport.gov.mt](mailto:civil.aviation@transport.gov.mt)  
URL: <http://www.transport.gov.mt/>

#### 2. Meteorology

##### 2.1 Manager Meteorological Services

Malta International Airport plc.  
Luqa LQA 4000  
Malta  
Phone: (356) 23 69 60 21  
AFS: LMMLYMYX  
Email: [metoffice@maltaairport.com](mailto:metoffice@maltaairport.com)

#### 3. Customs

##### 3.1 Director General

Customs House  
Lascaris Wharf  
Valletta VLT1920  
Malta  
Phone: (356) 25 68 51 01  
Fax: (356) 25 68 53 00  
Fax: (356) 21 24 61 50

##### 3.2 Manager

Customs and Excise Section  
Malta International Airport  
Malta  
Phone: (356) 21 24 98 68  
Phone: (356) 21 24 80 44  
Phone: (356) 21 22 34 68  
Fax: (356) 21 80 87 57

##### 3.3 Officer in charge

Customs Air Freight Section  
Malta International Airport  
Malta  
Phone: (356) 21 22 29 65  
Phone: (356) 21 25 05 16  
Phone: (356) 21 25 05 17  
Fax: (356) 21 23 38 15

3.4 Senior Inspector in charge  
  
Customs Express Freight Office  
Malta International Airport  
Malta  
Phone: (356) 21 25 70 28  
Fax: (356) 21 22 60 76

#### 4. Immigration

4.1 The Commissioner of Police  
  
Police Headquarters  
Floriana  
Malta  
Phone: (356) 22 94 00 00  
Fax: (356) 21 23 54 67

4.2 Police Immigration Control  
  
Malta International Airport  
Malta  
Phone: (356) 23 69 61 89 (arrivals)  
Phone: (356) 23 69 61 90 (arrivals)  
Phone: (356) 23 69 64 16 (departures)  
Fax: (356) 21 22 29 41

4.3 Airport Police Station  
  
Malta International Airport  
Malta  
Phone: (356) 23 69 63 99

#### 5. Aviation security

5.1 Minister for Home Affairs and National Security  
  
Ministry for Home Affairs and National Security  
201, Strait Street  
Valletta  
Malta  
Phone: (356) 25 68 90 00  
Fax: (356) 25 68 93 50  
URL: <http://www.mhas.gov.mt/>

5.2 Aviation Security Malta  
  
Malta International Airport  
Luqa  
Malta  
Phone: (356) 23 69 63 17  
Phone: (356) 23 69 63 06  
Phone: (356) 23 69 66 72  
Fax: (356) 21 80 29 79  
Email: [avsec@gov.mt](mailto:avsec@gov.mt)

**6. Health**

**6.1 Director (Environmental Health)**

Environmental Health Directorate  
37 - 39 Rue d'Argens  
Msida MSD 1368  
Malta  
Phone: (356) 21 33 22 25  
Phone: (356) 21 32 40 93  
Fax: (356) 21 34 47 67  
Email: mhi@gov.mt

**6.2 Senior Medical Officer**

(Port Health Services)  
Port Health Office  
2 Crucifix Hill  
Floriana  
Malta  
Phone: (356) 21 22 48 10  
Phone: (356) 23 69 61 70/1/2 (airport)  
Fax: (356) 21 22 66 96

**7. En-route and aerodrome charges**

**7.1 En-route charges**

EUROCONTROL  
CENTRAL ROUTE CHARGES OFFICE  
Rue de la Fusée 96  
B-1130 Brussels  
Belgium  
Phone: (32) 2 729 90 11  
Fax: (32) 2 729 90 44  
Telex: 21173 EUROCC B

**7.2 Aerodrome charges**

Chief Financial Officer  
Malta International Airport plc.  
Luqa LQA 05  
Malta  
Phone: (356) 23 69 62 69  
Fax: (356) 21 24 95 63

**8. Agricultural quarantine**

**8.1 Veterinary Regulation Directorate**

The Abattoir,  
Albert Town  
Marsa MRS 1123  
Malta  
Phone: (356) 22 92 51 00  
Fax: (356) 22 92 51 82  
Email: vafd.mrra@gov.mt

8.2 Plant Health Directorate

PHD SIU official  
Phone: (356) 25 99 65 33  
Phone: (356) 25 99 65 22  
Email: [plantquarantine@gov.mt](mailto:plantquarantine@gov.mt)  
URL: [http://agriculture.gov.mt/en/phd/Pages/surv\\_inspect\\_unit.aspx](http://agriculture.gov.mt/en/phd/Pages/surv_inspect_unit.aspx)

## 9. Aircraft accident investigation

9.1 Minister for Tourism

Ministry for Tourism  
233, Republic Street  
Valletta VLT1116  
Malta  
Phone: (356) 22 91 59 00  
Email: [tourism@gov.mt](mailto:tourism@gov.mt)  
URL: <http://www.tourism.gov.mt>

9.2 Bureau of Air Accident Investigation

c/o Ministry for Tourism  
233, Republic Street  
Valletta VLT1116  
Malta  
Phone: (356) 2291 5077  
Phone: (356) 2291 5088  
Phone: (356) 9938 2725 (24 hours)  
Email: [baai@gov.mt](mailto:baai@gov.mt)  
URL: <http://www.baai.gov.mt>

## 10. Foreign affairs

10.1 Minister of Foreign Affairs

Ministry for Foreign Affairs  
Merchants Street  
Palazzo Parisio  
Merchants Street  
Valletta VLT1171  
Phone: (356) 21 24 21 91  
Fax: (356) 21 24 28 53  
URL: <http://www.mfa.gov.mt/>

## GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT

### 1. General

1.1 Malta International Airport (Luqa Airport) is the only Customs airport in Malta. All commercial international flights to, or from, Malta are therefore required to land, or depart from, Luqa aerodrome, unless otherwise authorized by the Director General for Civil Aviation.

1.2 The Civil Aviation Directorate may be reached by telephone during office hours 08.00 till 16.00 Monday to Friday, excluding Public Holidays.

Enquiries by post should be addressed to:

Post: Civil Aviation Directorate  
Malta Transport Centre  
Pantar Road  
Lija, LJA 2021  
Malta

Phone: (356) 2555 5653

Phone: (356) 2555 5642

### 1.3 Flight Authorizations

1.3.1 Under Maltese Law, the types of air services listed in Paragraph 1.4 do not require prior approval. Notwithstanding this, all operators requesting to land in Malta are required to notify the Civil Aviation Directorate on email [dutyofficer@transport.gov.mt](mailto:dutyofficer@transport.gov.mt) and Malta Air Traffic Services on email [ops.planning@maltats.com](mailto:ops.planning@maltats.com). In addition, operators will be required to submit the documentation listed in Paragraph 1.6 below when required by the Director General.

### 1.4 Authorized Types of Air Services

1.4.1 Air Service consisting of non-stop flights over the territory of Malta by an aircraft of a Contracting State to the Convention on International Civil Aviation signed at Chicago on the 7th day of December 1944, in transit and not engaged on an international scheduled service, and landings for non traffic purposes by such aircraft at the Maltese aerodrome.

1.4.2 Air services consisting of non-stop flights over the territory of Malta by an aircraft of a Contracting State to the International Air Services Transit Agreement signed at Chicago on the 7th day of December 1944, engaged in international scheduled service, and landings for non-traffic purposes by such aircraft at the Maltese aerodrome.

1.4.3 Air services operated by an undertaking that holds a valid AOC issued by the EU or EEA, to and from an EU Member State.

1.4.4 Air services operated by an undertaking designated and agreed upon under the provisions of any bilateral agreement made between Malta and any other State and subject to the provisions of this agreement and is in possession of a valid AOC and a TCO Certificate.

1.4.5 Air services operated to, from and over the territory of Malta in pursuance of an authorization to proceed, issued by the organization, commission or agency, established by the International Convention relating to Cooperation for the Safety of Air Navigation, signed at Brussels on the 13th day of December 1960.

1.4.6 Air Services operated by carriers in possession of an EASA TCO Certificate.

1.4.7 Non-commercial flights operated for any purpose other than trade or business, including the trade or business of the person operating the service.

1.5 Any flight which does not fall into one of the categories outlined in Paragraph 1.4 above, must obtain a specific permission from the Director General for Civil Aviation. All notifications and requests for permission should be made through the respective ground handler by email to [dutyofficer.cad@transport.gov.mt](mailto:dutyofficer.cad@transport.gov.mt) using the Flight Application/Notification Form, together with the documents listed in Paragraph 1.6.

## 1.6 Documentation

1.6.1 All flights operated by aircraft not registered in the European Economic Area operating flights into Malta are required to submit beforehand a copy of the following documents to the Civil Aviation Directorate - Transport Malta. The documents must follow the ICAO standard format as set out in the relevant appendices to Annex 9 and are acceptable when furnished with a certified English translation.

Documents to be provided:

- a. a copy of the Air Operator's Certificate;
- b. a copy of a valid verifiable Insurance Certificate meeting the criteria laid down in Regulation (EC) 785/2004
- c. a copy of the Noise Certificate;
- d. a declaration of any cargo on board together with an ACC3 where relevant with reference to Regulation (EC) 185/2010 Air Cargo and Mail Carrier operating into the Union from a Third Country Airport; Documentary Requirements for all Aircrafts at the International Aerodrome.
- e. a copy of the airworthiness certificate and airworthiness review certificate.
- f. Schedule, including start date, of the proposed service; and
- g. Third Country Operator's (TCO) Certificate.

1.7 Munitions of war cannot be carried on civil aircraft operating in, or over, the territory of Malta except with the written permission of the Director General for Civil Aviation.

## 1.8 Customs Requirements

All aircraft arriving in Malta from non-EU countries are, prima facie, liable to Customs duty. However, duty will not be called for in the following cases:

- a. aircraft registered in Malta which are shown to the satisfaction of Customs to be returning after temporary exportation and which have not undergone any process of repair or renovation whilst abroad, other than ordinary running repairs;
- b. aircraft registered outside Malta which are engaged in international scheduled services;
- c. aircraft for which a valid Carnet de Passage en Douane is produced;
- d. aircraft registered outside the European territory which are remaining in Malta for not more than seven (7) days; and
- e. aircraft temporarily imported into Malta by persons principally resident outside the European territory, provided that a deposit is paid or bond is given to cover the Customs duty payable.

1.9 Fees may be applicable for services provided in special cases/outside office hours.

1.10 Emergency mobile number

Phone: +356 79245205

*Note: Applications for scheduled seasonal permits and all flights not listed in Paragraph 1.4, will be considered only during normal office hours. Operating permits will be refused to any airline, type or specific aircraft or aircraft registered in States where evidence suggests that they do not comply with international safety standards, including those banned from operating within the European Union.*

## 2. Scheduled flights

### 2.1 General

2.1.1 Scheduled air services to Malta operate in accordance with the terms of the relevant bilateral Air Services Agreement in force. In such cases, an airline operating scheduled services to Malta is required to submit its operating schedule to the Civil Aviation Directorate – Transport Malta for endorsement together with the documents listed in paragraph 1.6, above. Scheduled air services not covered by an appropriate Air Services Agreement require a specific approval by the Civil Aviation Directorate – Transport Malta.

## **2.2      *Documentary requirements for clearance of aircraft***

- 2.2.1      For the clearance of aircraft on entry and departure from/to a non-EU country, Non-Schengen aircraft operators are required to submit one copy of the General Declaration, one copy of the Passenger Manifest and three copies of the Cargo Manifest. One copy of the Cargo Manifest is to be attached to the General Declaration, one copy will be retained by Customs and one copy is to be sent to the L&W Branch (Customs). Operators are to ensure that all passengers are in possession of the required travel documentation and visas where applicable.
- 2.2.2      The Health and Environment Sections recommend that the General Declaration should also include data covering live animals carried on board, if any, whether as freight, accompanied or in transit.
- 2.2.3      The same documentation is required in the case of transit aircraft.

## **3.      *Non-scheduled flights***

### **3.1      *General***

- 3.1.1      All non-scheduled flights operated by commercial operators into and out of Malta for traffic or technical stop purposes, are to notify Civil Aviation Directorate and Malta Air Traffic Services of the flight and such notification must be done through the respective ground handler via email to [dutyofficer.cad@transport.gov.mt](mailto:dutyofficer.cad@transport.gov.mt) and [ops.planning@maltats.com](mailto:ops.planning@maltats.com), using the required Form, together with the documents listed in Paragraph 1.6.

## **4.      *Non-Commercial Flights***

### **4.1      *General***

- 4.1.1      All private flights operated into and out of Malta for traffic, or for technical stop purposes, are to notify Civil Aviation Directorate and Malta Air Traffic Services of the flight and such notification must be done through the respective ground handler via email to [dutyofficer.cad@transport.gov.mt](mailto:dutyofficer.cad@transport.gov.mt) and [ops.planning@maltats.com](mailto:ops.planning@maltats.com), using the required Form, together with the documents listed in Paragraph 1.6.

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

- 4.2.1      For clearance of aircraft on entry and departure from/to a non-European country, aircraft operators are required to submit one copy of the General Declaration only. This shall include the names of all persons on board the aircraft. It is desirable that documents of arriving aircraft are produced to Customs at least within fifteen minutes of the aircraft's arrival while those for departing aircraft are to be produced to Customs at least one hour before the aircraft's departure.

## **5.      *State aircraft***

### **5.1      *General***

- 5.1.1      The operation of State aircraft (military, customs or police) in, or over, the territory of Malta is subject to the approval of the Ministry for Foreign Affairs. These flights are subject to regulations listed in GEN 1.1 which are based on the Standards and Recommended Practices determined in Annex 9 to the Convention on International Civil Aviation.

### **5.2      *Documentary requirements for clearance of State aircraft***

- 5.2.1      Three copies of the General Declaration, which includes the names of all persons on board, are required for the clearance of State aircraft.

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

- 6.1      No public health measures are required to be carried out in respect of aircraft entering Malta except when it is known that the aircraft is coming from a country or area that may have been considered as necessitating quarantine measures during a specific period. In such an event, the Airport Medical Officer may take any necessary measure for preventing danger to public health.

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**7. Aircraft noise standards**

- 7.1 Civil registered subsonic jet aircraft or propeller driven aircraft operating into or out of Luqa aerodrome, must be noise certified in accordance with ICAO Annex 16, Volume 1 standards as follows:
- a. jet aircraft with a take-off mass less than 34,000kg and a seating capacity of less than nineteen, must be certified to Annex 16, Chapter 2 standards;
  - b. jet aircraft with a take-off mass of 34,000kg or more and a seating capacity of more than nineteen, must be certified to Annex 16, Chapter 3 standards; and
  - c. propeller aircraft with a take-off mass less than 5,700kg, must be certified to Annex 16, Chapter 6 standards.
- 7.2 Aircraft operators wishing to conduct commercial or transport flights to, or from, Malta with aircraft that fall within the categories shown in paragraph 7.1 above, will be required to submit a copy of the noise certificate issued by the aircraft's State of Registry in order to ascertain that they meet the above requirements.
- 7.3 The Director General for Civil Aviation is empowered to grant temporary exemption in certain cases if the operator furnishes proof of the economic or technical impossibility of operating to, or from, Malta by means of aircraft that comply with the above standards. Further details may be found in LN162/2001, the Air Navigation (Noise Certification and Operation of Aircraft) Order, 2001.



## **GEN 1.3 ENTRY, TRANSIT AND DEPARTURE OF PASSENGERS AND CREW**

### **1. Customs requirements**

- 1.1 Baggage or articles belonging to disembarking passengers and crew are immediately released except for those declared to contain dutiable/restricted/prohibited items and/or selected for inspection by the Customs authorities. All baggage may be subject to inspection by the Customs authorities.
- 1.2 No customs formalities are normally required on departure.

### **2. Immigration requirements**

- 2.1 All disembarking passengers are required to hold a valid passport or, in certain cases, a valid means of identification. All disembarking passengers who are not citizens of the EU, EEA and Switzerland, are required to complete a landing card on entry.
- 2.2 Certain disembarking passengers who are citizens of certain countries may also require an entrance visa. Further details on the requirement of an entrance visa may be obtained from the Immigration Office, contact details of which are given in GEN 1.1, section 4.
- 2.3 For flight crew members on scheduled services who keep possession of their licences when embarking or disembarking, remain at the airport and depart on the same aircraft, the crew member licence or certificate is accepted in lieu of a passport or visa for temporary admission into Malta.
- 2.4 Embarking passengers are required to present a valid passport or, in certain cases, a valid means of identification.

### **3. Public health requirements**

- 3.1 The Airport Medical Officer may examine and take all necessary precautions with respect to those disembarking or embarking passengers who are believed, or known, to be suffering from, or incubating, a communicable or quarantine disease.
- 3.2 A yellow fever vaccination certificate is required from disembarking passengers who are more than 9 months old and coming from an infected area. Infants under 9 months may be subject to isolation or surveillance if coming from an infected area.
- 3.3 Should there be an ill passenger on board an aircraft, it is desirable that notification of this case occurs 30 minutes prior to landing.
- 3.4 Disembarking passengers may not import meat, poultry, milk, including their products, and fish and crustaceans unless a health certificate is produced which will allow release of such items. All such foodstuffs are to be prepared and properly labelled. If such requirements are not observed, such items will be confiscated by Customs authorities and handed over to the Port Health authorities.

### **4. EASA licences**

- 4.1 Article 1 (3) (c) of the Basic Regulation 2018/1139, as amended allows, unless the Director General for Civil Aviation in the particular case gives a direction to the contrary, the holder of an EASA licence to exercise the privileges of that licence on aircraft registered in Malta.
- 4.2 For the purposes of Article 1 (3) (c), a certificate means a licence granted in accordance with EASA by an EASA Member State whose procedures have been assessed as satisfactory by EASA licensing standardisation team and the Competent Authority has been recommended by EASA for mutual recognition of its licences.
- 4.3 The list of EASA Member States with mutual recognition may be found on the EASA website.

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## GEN 1.4 ENTRY, TRANSIT AND DEPARTURE OF CARGO

### 1. Customs requirements concerning cargo and other articles

- 1.1 Normally an invoice is required for the clearance of goods through customs. However, other internal documentation may be required.
- 1.2 An invoice is also required for air cargo that is simply being transshipped from one flight to another under Customs supervision.
- 1.3 No clearance documents are required with respect to goods retained on board for on-carriage to another destination.
- 1.4 All air cargo shipments are free of charges as long as clearance of cargo is made within a period of eight days. Clearance of cargo made after office hours is not free of charges.
- 1.5 A Customs document is required for the clearance of shipments to be exported by air.
- 1.6 Further information may be obtained from the Customs Air Freight, contact details of which are given in GEN 1.1, section 3.3.

### 2. Agricultural quarantine requirements

- 2.1 Information on the sanitary certificates or related documents that may be required in respect of animal and plant shipments may be obtained from the Department of Veterinary Service, contact details of which are given in GEN 1.1, section 8.

#### 2.1.1 MIA Border Inspection Post (BIP)

- 2.1.1.1 The MIA Border Inspection Post (BIP), (TRACES Unit No. MTLUQ4) is approved under Commission Decision 2009/821 and allowed to carry out veterinary checks on consignments of animals and products introduced into the Community from third countries. The following codes explain the type of products and animals that are allowed to be checked at the MIA BIP.

HC(2): All products for human consumption which must be packed products;

NHC(2): Other products not for human consumption which must be packed products;

Live Animals: O,U,E: Those animals mentioned in the below legend are allowed to enter into the Community through the BIP;

legend:

HC - Human Consumption;

NHC - Non Human Consumption;

O - Other animals (including zoo animals);

U - Ungulates: cattle, pigs, sheep, goats, wild and domestic solipeds;

E - Registered Equidae as defined in Council Directive 90/426/EEC

- 2.1.1.2 All above consignments (products and animals) must arrive with the necessary certificates. The certificates required vary according to the type of consignments. All consignments must be accompanied by a Health Certificate issued by the veterinary authority of the Third Country of origin, together with TRACES certificate (CVEDP, CVEDA part 1) which has to be done here in Malta by the importer. Once the Official veterinarians have carried out the inspection, a TRACES certificate (CVEDP, CVEDA part 2) is issued and the consignments are released for free circulation in all EU.

Further information can be found on:

<http://agriculture.gov.mt/en/vprd/Pages/home.aspx>

#### 2.1.2 Plants and plant material (seeds, cuttings, etc.) Shipments

- 2.1.2.1 EU plant shipments can enter Malta without phytosanitary certificates but plants listed in Annex IV of the 'Guide to marketing requirements and plant passports' need to be accompanied by a plant passport and/or a Plant Health Movement Document (PHMD) as stipulated under such guidelines, until their final destination.

The document is available here:

[http://agriculture.gov.mt/en/phd/Documents/guide\\_to\\_marketing\\_requirements\\_and\\_plant\\_passports.pdf](http://agriculture.gov.mt/en/phd/Documents/guide_to_marketing_requirements_and_plant_passports.pdf).

2.1.2.2 Regulated third country, importing of plant and plant material shall be accompanied by Phytosanitary Certificate issued by exporting country and copy of the bill of lading or airway bill. Documentary checks have to be done before shipment arrives; identity checks and plant health checks are done by Plant Health Inspectors within the Surveillance and Inspectorate Unit when shipments arrive.  
For further information on these please check with page GEN 1.1-4 paragraph 8.

## GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS

### 1. General

- 1.1 Commercial air transport aircraft operating in Malta must adhere to the provisions of ICAO Annex 6 — *Operation of Aircraft*, Part 1 — *International Commercial Air Transport — Aeroplanes*, Chapter 6 (Aeroplane Instruments, Equipment and Flight Documents) and Chapter 7 (Aeroplane Communication and Navigation Equipment).

### 2. Equipment to be carried by aircraft

- 2.1 All aircraft operating within controlled airspace in the Malta FIR/UIR are required to operate with serviceable transponder having mode A4096 code and mode C altitude reporting capability.

- 2.2 All aircraft flying under IFR within Malta FIR/UIR shall carry radio equipment capable of:

- a. maintaining two-way communication with the appropriate aeronautical radio stations;
- b. enabling the aircraft to be navigated on the intended route (RNAV 5 capability); and
- c. providing a continuous indication of the aircraft's distance from the appropriate aeronautical radio stations.

- 2.3 In addition to the above, all aircraft registered in Malta flying under IFR shall carry radio equipment capable of:

- a. receiving from the appropriate aeronautical radio stations meteorological broadcasts relevant to the intended flight;
- b. receiving signals from one or more aeronautical radio stations on the surface to enable the aircraft to be guided to a point from which a visual landing can be made at the aerodrome at which the aircraft is to land; and
- c. enabling the aircraft to make an approach to landing using the Instrument Landing System.

- 2.4 All aircraft flying under VFR within controlled airspace shall carry radio equipment capable of maintaining two-way communication with the appropriate aeronautical radio stations and secondary surveillance radar equipment.

- 2.5 Additionally, aircraft may be required to carry such other special radio or radio navigation equipment for the purpose of facilitating navigation in accordance with ICAO Doc. 7030/4, Regional Supplementary Procedures (see ENR 1.8).

- 2.6 State aircraft that are not equipped with FM immune VOR equipment in accordance with ICAO Annex 10, Vol. I, Chapter 3, are permitted to operate within the Malta FIR/UIR provided that they carry alternative navigational equipment that can guarantee RNP 5 navigational accuracy.

### 3. Reduced Vertical Separation Minimum

- 3.1 Except for the purpose of RVSM transition, only RVSM approved aircraft and non-RVSM approved State aircraft shall be permitted to operate in the RVSM airspace within the Malta UIR.

- 3.2 RVSM approved aircraft are those aircraft for which the operator has obtained an RVSM approval, either from the State in which the operator is based, or from the State in which the aircraft is registered.

- 3.3 Guidance material on the airworthiness, continued airworthiness and the operational practices and procedures for the EUR RVSM airspace is provided in the Joint Aviation Authorities (JAA) Temporary Guidance Leaflet (TGL) Number 6 and the ICAO EUR Regional Supplementary Procedures (Doc. 7030/4 – EUR).

- 3.4 Except for State aircraft, RVSM approval is required for aircraft to operate in the RVSM airspace within the Malta UIR (see ENR 2.1).

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**4. Airborne Collision Avoidance System (ACAS II)**

4.1 Excerpt from "Commission Regulation (EU) No 1332/2011 of 16 December 2011 laying down common airspace usage requirements and operating procedures for airborne collision avoidance":

Aircraft\* undertaking flights into, within or out of the Union shall be equipped with collision avoidance logic version 7.1 of ACAS II as follows:

- a. turbine-powered aeroplanes with a maximum certificated take-off mass exceeding 5700 kg; or
- b. turbine-powered aeroplanes authorised to carry more than 19 passengers.

\* ref Article 4(1)(b) and (c) of Regulation (EC) No 216/2008

4.2 All civil fixed-wing turbine-engined aircraft having a maximum certified take-off mass exceeding 5,700 kg, or a maximum approved passenger seating configuration of more than nineteen, are required to be equipped with ACAS II.

4.3 Information and guidance material on any ACAS II matter associated with flight within the airspace of Malta, may be obtained from EUROCONTROL:

ACAS Support Unit (ASU)  
EUROCONTROL  
Rue de la Fusée, 96  
B-1130 Brussels  
Belgium  
Phone: (32) 2 729 3133 / 3170 / 3113  
Fax: (32) 2 729 3719  
SITA: BRUAC7X  
Email: [acas@eurocontrol.int](mailto:acas@eurocontrol.int)  
URL: <http://www.eurocontrol.int/acas>

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**GEN 1.6 SUMMARY OF NATIONAL REGULATIONS AND INTERNATIONAL AGREEMENTS/  
CONVENTIONS**

**1. General**

1.1 The following is a list of civil aviation and aviation related legislation in force in Malta. It is essential that anyone engaged in air operations be acquainted with the relevant regulations.

1.2 These documents may be viewed and downloaded from the official website

URL: <http://www.justice.gov.mt>

or from:

Department of Information  
Auberge de Castille  
Valletta

Malta

Phone: (356) 21 22 49 01

Fax: (356) 21 23 71 70

**2. Laws and regulations**

**List of Aviation Legislation (as on 1 March 2007)**

The text of the following legislation may be accessed through the internet site:

<http://www.justice.gov.mt/>

**CAP 80 Aircraft (Application of Laws) Ordinance**

*[to apply to aircraft certain provisions of law]*

Ordinance X of 1934 as amended by LN 4 of 1963, Act XI of 1973, LN 148 of 1975, and Act XXII of 1976

**CAP 218 Civil Aviation (Air Operators' Certificates) Act**

*[to provide for the issue, variation, suspension and revocation of air operator's certificates to companies operating aircraft for the purpose of public transport]*

Act XXI of 1970, as amended by Act LVIII of 1974, LN 148 of 1975 and Acts XIII of 1983, X of 1993 and VIII of 2002

218.01 Fees for Air Operators Certificates Regulations  
LN 191/1991; LN 338/2002; LN 298/2003

**Cap 230 Malta Summer Time Act**

*[to provide for the advance of time in Malta during certain periods of the year]*

230.01 Summer Time Order  
LN 76 of 2001 and 150 of 2006, consolidated

**Cap 232 Civil Aviation Act**

*[to regulate civil aviation]*

Act XLIII of 1972, amended by Acts XXXII of 1979, XIII of 1983, XXXVII of 1998, XX of 1989 and IX of 2003

232.01 Carriage by Air (International and Non-International Carriage) Order  
LN 63/2003; LN 246/2004; LN 154/2006

232.03 Civil Aviation (Investigation of Air Accidents and Incidents) Regulations  
LN 135/2002; LN 276/2002

<b>Cap 232</b>	<b>Civil Aviation Act</b>
232.04	Civil Aviation (Exemption from Air Service Licence) Order LN 79/1987; LN 72/1993
232.05	Air Navigation Order LN 176/1990; LN 57/1991; LN 34/1992; LN 202/1998; LN 52/2001; LN 339/2002; LN 130/2003; LN 124/2004; LN 157/2004; LN 385/2004; LN 445/2004; LN 58/2005; LN 321/2005
232.06	Passenger Service Charge at Airport Regulations LN 118/1997; 218/1997; 60/2005
232.07	Civil Aviation Joint Aviation Requirements Order LN 203/1998; LN 190/2002; LN 67/2003; LN 81/2004; LN 59/2005; LN 254/2005; LN 39/2006; LN 169/2006; LN 24/2007
232.08	Statistical Returns in respect of Carriage of Passengers, Freight and Mail Regulations LN 51/2001; LN 82/2004
232.09	Civil Aviation (Denied Boarding Compensation and Assistance to Passengers) (Designation of Competent Authority) Regulations LN 63/2005; LN 13/2007
232.10	Definition and Use of Compatible Technical Specifications for the Procurement of Air Traffic Management Equipment and Systems Regulations LN 161/2001; 336/2002
232.11	Air Navigation (Noise Certification and Operation of Aircraft) Order LN 162/2001; 83/2004
232.12	Airport Economic Regulations LN 299/2001; LN 448/2004
232.13	Allocation of Slots at Airport Regulations LN 300/2001
232.14	Civil Aviation (Restriction of Flying) Regulations LN 122/2002
232.15	Airport (Ground Handling Services) Regulations LN 66/2003; LN 84/2004
232.16	Civil Aviation (Air Fares) Regulations LN 77/2004; LN 244/2004
232.17	Civil Aviation (Air Transport Licensing) Regulations LN 78/2004; LN 245/2004
232.18	Civil Aviation (Provision of Air Navigation Services) Order LN 281/2006
232.19	Civil Aviation (Aerodrome Licensing) Regulations LN 80/2004; LN 62/2005
232.20	Civil Aviation (Air Transport Licensing) (Fees) Regulations LN 429/2004
232.21	Civil Aviation (Noise Related Operating Restrictions at Airports) Regulations LN 296/2005
232.22	Civil Aviation (Denied Boarding Compensation and Assistance to Passengers) Regulations LN 297/2005
232.23	Civil Aviation (Insurance Requirements for Air Carriers and Aircraft Operators) Order LN 377/2005
232.24	Air Navigation (Dangerous Goods) Regulations LN 233/2006
<b>CAP 304</b>	<b>Ratification of Treaties Act</b> <i>[to provide for the ratification of certain treaties]</i> Act v of 1983
<b>CAP 333</b>	<b>Eurocontrol Act</b> <i>[to provide for Malta's membership to Eurocontrol]</i> Act X of 1989, as amended by Act XIII of 1997 and Act IX of 2003



**CAP 333      Eurocontrol Act**

333.01      Civil Aviation (Route Charges for Navigation Services) Regulations  
LN386/2002 + annual update

**CAP 353      Civil Aviation (Security) Act**

*[to give effect to the Convention on Offences and Certain Other Acts Committed on Board Aircraft (Tokyo, 1963); the Convention for the Suppression of Unlawful Seizure of Aircraft (The Hague, 1970); and the convention for the Suppression of Unlawful Acts Against the Safety of Civil Aviation (Montreal 1971); and the Protocol to the Montreal Convention (1988)]*

Act XX of 1991

**CAP 405      Airports and Civil Aviation (Security) Act**

*[to give effect to certain enactments relating to aviation security]*

Act XX of 1998

405.01      Regulated Agents Regulations  
LN 286/2001

405.02      Designated Airports (Policing) Order  
LN 213/2003

405.03      Civil Aviation Security Regulations  
LN 25/2004

**CAP 434      Code of Conduct for Computerised Reservation Systems Act**

*[to provide for a code of conduct for computerised reservation systems]*

Act XIX of 2001

**CAP 452      Employment and Industrial Relations Act**

*[to consolidate, with amendments, the Conditions of Employment (Regulation) Act (Cap 135) and the Industrial Relations Act (Cap 266)]*

Act No XXII of 2002

452.90      Organisation of Working Time (Civil Aviation) Regulations  
LN 306/2003

**CAP 460      European Union Act**

*[to provide for Malta's accession to the European Union and to make provision consequent and ancillary thereto]*

Act No V of 2003

**NOTE:** Article 3 of Act No V of 2003, the European Union Act (Cap 460), makes the provisions of the Treaties of the European Community part of domestic law in Malta. Article 249 of the 'Consolidated Version of the Treaty Establishing the European Community' specifies that regulations made by the European Parliament / EC Council / EC Commission shall be binding and directly applicable in all EC member States.

**All EC Regulations relating to air transport are therefore legal in Malta, and any provision of any other legislation incompatible with such EC Regulations is without effect and unenforceable (Article 3 (2) Act V of 2003 - CAP 460).**

EC aviation-related Regulations may be accessed through the internet site:

[http://ec.europa.eu/transport/air/handbook/handbook\\_en.htm](http://ec.europa.eu/transport/air/handbook/handbook_en.htm)

and comprise the following subjects:

**CAP 460**

**European Union Act**

Regulation (EU) 2017/386 of 6 March 2017 amending Implementing Regulation (EU) No 1207/2011 laying down requirements for the performance and the interoperability of surveillance for the single European sky.  
Regulation (EU) 2017/373 of 1 March 2017 laying down common requirements for providers of air traffic management/air navigation services and other air traffic management network functions and their oversight, repealing Regulation (EC) No 482/2008, Implementing Regulations (EU) No 1034/2011, (EU) No 1035/2011 and (EU) 2016/1377 and amending Regulation (EU) No 677/2011.

Regulation (EU) 2017/363 of 1 March 2017 amending Regulation (EU) No 965/2012 as regards the specific approval of single-engined turbine aeroplane operations at night or in instrument meteorological conditions and the approval requirements for the dangerous goods training relating to commercial specialised operations, non-commercial operations of complex motor-powered aircraft and non-commercial specialised operations of complex motor-powered aircraft.

Regulation (EU) 2016/2345 of 14 December 2016 amending Regulation (EC) No 262/2009 and Implementing Regulation (EU) No 1079/2012 as regards references to ICAO provisions.

Regulation (EU) 2016/2214 of 8 December 2016 amending Regulation (EC) No 474/2006 as regards the list of air carriers which are subject to an operating ban within the Union.

Regulation (EU) 2016/2120 of 2 December 2016 amending Regulation (EC) No 1033/2006 as regards the provisions referred to in Article 3(1).

Regulation (EU) 2016/2096 of 30 November 2016 amending Regulation (EU) No 1254/2009 as regards certain criteria to allow Member States to derogate from the common basic standards on civil aviation security and to adopt alternative security measures.

Regulation (EU) 2016/1649 of 8 July 2016 supplementing Regulation (EU) No 1316/2013 of the European Parliament and of the Council establishing the Connecting Europe Facility.

Regulation (EU) 2016/1199 of 22 July 2016 amending Regulation (EU) No 965/2012 as regards operational approval of performance-based navigation, certification and oversight of data services providers and helicopter offshore operations, and correcting that Regulation.

Applicable provisions of (EU) 2016/1185 of 20 July 2016 amending Implementing Regulation (EU) No 923/2012 as regards the update and completion of the common rules of the air and operational provisions regarding services and procedures in air navigation (SERA Part C) and repealing Regulation (EC) No 730/2006.

Regulation (EU) 2016/1158 of 15 July 2016 amending Regulation (EU) No 452/2014 as regards the deletion of templates for the authorisations issued to third country operators and for the associated specifications.

Regulation (EU) 2016/1006 of 22 June 2016 amending Regulation (EU) No 255/2010 as regards the ICAO provisions referred to in Article 3(1).

Regulation (EU) 2016/963 of 16 June 2016 amending Regulation (EC) No 474/2006 as regards the list of air carriers which are subject to an operating ban within the Union.

Regulation (EU) 2016/583 of 15 April 2016 amending Regulation (EU) No 1332/2011 laying down common airspace usage requirements and operating procedures for airborne collision avoidance.

Regulation (EU) 2016/539 of 6 April 2016 amending Regulation (EU) No 1178/2011 as regards pilot training, testing and periodic checking for performance-based navigation.

Regulation (EU) 2016/5 of 5 January 2016 amending Regulation (EU) No 748/2012 as regards the implementation of essential requirements for environmental protection.

Regulation (EU) 2016/4 of 5 January 2016 amending Regulation (EC) No 216/2008 of the European Parliament and of the Council as regards essential requirements for environmental protection.

Regulation (EU) 2426/2015 of 18 December 2015 amending Regulation (EU) 1998/2015 as regards third countries recognised as applying security standards equivalent to the common basic standards on civil aviation security.

Regulation (EU) 1998/2015 of 5 November 2015 laying down detailed measures for the implementation of the common basic standards on aviation security.

Regulation (EU) 1536/2015 of 16 September 2015 amending Regulation (EU) No 1321/2014 as regards alignment of rules for continuing airworthiness with Regulation (EC) No 216/2008, critical maintenance tasks and aircraft continuing airworthiness monitoring.

Regulation (EU) 1329/2015 of 31 July 2015 amending Regulation (EU) No 965/2012 as regards operations by Union air carriers of aircraft registered in a third country.

Regulation No. 1088/2015 of 3 July 2015 amending Regulation (EU) No 1321/2014 as regards alleviations for maintenance procedures for general aviation aircraft.

Regulation No. 1039/2015 of 30 June 2015 amending Regulation (EU) No 748/2012 as regards flight testing.

Regulation No. 1018/2015 List classifying occurrences to be mandatorily reported.

**CAP 460**

**European Union Act**

Regulation No. 640/2015 of 23 April 2015 on additional airworthiness specifications for a given type of operations and amending Regulation (EU) No 965/2012.

Regulation No. 445/2015 of 17 March 2015 amending Regulation (EU) No 1178/2011 as regards technical requirements and administrative procedures related to civil aviation aircrew.

Regulation No. 340/2015 ATCO Licences & Certificates.

Regulation No. 310/2015 of 26 February 2015 amending Regulation (EC) No 29/2009 laying down requirements on data link services for the single European sky and repealing Implementing Regulation (EU) No 441/2014.

Regulation No. 140/2015 of 29 January 2015 amending Regulation (EU) No 965/2012 as regards sterile flight crew compartment and correcting that Regulation.

Regulation No. 1321/2014 Continuing Airworthiness.

Regulation No. 1029/2014 of 26 September 2014 amending Regulation (EU) No 73/2010 laying down requirements on the quality of aeronautical data and aeronautical information for the single European sky.

Regulation No. 1028/2014 of 26 September 2014 amending Implementing Regulation (EU) No 1207/2011 laying down requirements for the performance and the interoperability of surveillance for the single European sky.

Regulation No. 970/2014 of 12 September 2014 amending Regulation (EU) No 677/2011 laying down detailed rules for the implementation of air traffic management (ATM) network functions.

Regulation No. 721/2014 of 16 June 2014 amending Regulation (EC) No 219/2007 on the establishment of a Joint Undertaking to develop the new generation European air traffic management system (SESAR) as regards the extension of the Joint Undertaking until 2024.

Regulation No. 716/2014 Pilot Common Project.

Regulation No. 598/2014 Introduction of noise-related operating restrictions at EU airports.

Regulation No. 512/2014 of the European Parliament and of the Council of 16 April 2014 amending.

Regulation No. 452/2014 Third Country Operators Regulation.

Regulation No. 448/2014 of 2 May 2014 amending Implementing Regulation (EU) No 1035/2011 by updating references to the Annexes to the Chicago Convention.

Regulation No. 441/2014 of 30 April 2014 amending Regulation (EC) No 29/2009 laying down requirements on data link services for the single European sky.

Regulation No. 379/2014 of 7 April 2014 amending Commission Regulation (EU) No 965/2012 laying down technical requirements and administrative procedures related to air operations pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council.

Regulation No. 376/2014 Reporting, Analysis and Follow-Up of Occurrences in Civil Aviation.

Regulation No. 319/2014 Fees & Charges Levied by EASA.

Regulation No. 245/2014 of 13 March 2014 amending Commission Regulation (EU) No 1178/2011 of 3 November 2011 laying down technical requirements and administrative procedures related to civil aviation aircrew.

Regulation No. 139/2014 Aerodromes.

Regulation No. 83/2014 of 29 January 2014 amending Regulation (EU) No 965/2012 laying down technical requirements and administrative procedures related to air operations pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council.

Regulation No. 71/2014 of 27 January 2014 amending Regulation (EU) No 965/2012 laying down technical requirements and administrative procedures related to Air Operations pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council.

Regulation No. 70/2014 of 27 January 2014 amending Regulation (EU) No 1178/2011 laying down technical requirements and administrative procedures related to civil aviation aircrew pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council.

Regulation No. 69/2014 of 27 January 2014 amending Regulation (EU) No 748/2012 laying down implementing rules for the airworthiness and environmental certification of aircraft and related products, parts and appliances, as well as for the certification of design and production organisations.

Regulation No. 1316/2013 Connecting Europe Facility (CEF).

Regulation No. 1315/2013 Union guidelines for the development of the Trans-European network (Trans-European Transport Network Connecting Europe Facility (CEF)).

Regulation No. 1291/2013 of the European Parliament and of the Council of 11 December 2013 establishing Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020) and repealing Decision No 1982/2006/EC.

**CAP 460**

**European Union Act**

Regulation No. 1285/2013 Implementation & Exploitation of European Satellite Navigation Systems.

Regulation No. 800/2013 of 14 August 2013 amending Regulation (EU) No 965/2012 laying down technical requirements and administrative procedures related to air operations pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council.

Regulation No. 657/2013 of 10 July 2013 amending Implementing Regulation (EU) No 1079/2012 laying down requirements for voice channels spacing for the single European sky.

Regulation No. 628/2013 Standardisation Inspections.

Regulation No. 526/2013 of the European Parliament and of the Council of 21 May 2013 concerning the European Union Agency for Network and Information Security (ENISA) and repealing Regulation (EC) No 460/2004.

Regulation No. 428/2013 of 8 May 2013 amending Regulation (EC) No 1033/2006 as regards the ICAO provisions referred to in Article 3(1) and repealing Regulation (EU) No 929/2010.

Regulation No. 409/2013 Common Projects & Governance.

Regulation No. 391/2013 Common Charging Scheme.

Regulation No. 390/2013 Performance Scheme.

Regulation No. 7/2013 of 8 January 2013 amending Regulation (EU) No 748/2012 laying down Implementing Rules for the airworthiness and environmental certification of aircraft and related products, parts and appliances, as well as for the certification of design and production organisations.

Regulation No. 6/2013 of 8 January 2013 amending Regulation (EC) No 216/2008 of the European Parliament and of the Council on common rules in the field of civil aviation and establishing a European Aviation Safety Agency, and repealing Council Directive 91/670/EEC, Regulation (EC) No 1592/2002 and Directive 2004/36/EC.

Regulation No. 1079/2012 Air Ground Voice Channel Spacing.

Regulation No. 1025/2012 of the European Parliament and of the Council of 25 October 2012 on European standardisation, amending Council Directives 89/686/EEC and 93/15/EEC and Directives 94/9/EC, 94/25/EC, 95/16/EC, 97/23/EC, 98/34/EC, 2004/22/EC, 2007/23/EC, 2009/23/EC and 2009/105/EC of the European Parliament and of the Council and repealing Council Decision 87/95/EEC and Decision No 1673/2006/EC of the European Parliament and of the Council.

Regulation No. 965/2012 Air Operations.

Regulation No. 923/2012 of 26 September 2012 laying down the common rules of the air and operational provisions regarding services and procedures in air navigation and amending Implementing Regulation (EU) No 1035/2011 and Regulations (EC) No 1265/2007, (EC) No 1794/2006, (EC) No 730/2006, (EC) No 1033/2006 and (EU) No 255/2010.

Regulation No. 748/2012 Initial Airworthiness.

Regulation No. 646/2012 Fines & Periodic Penalty Payments.

Regulation No. 290/2012 of 30 March 2012 amending Regulation (EU) No 1178/2011 laying down technical requirements and administrative procedures related to civil aviation aircrew pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council.

Regulation No. 1332/2011 Airspace Usage Requirements – Part-ACAS.

Regulation No. 1207/2011 Surveillance Performance & Interoperability (SPI).

Regulation No. 1206/2011 Aircraft Identification.

Regulation No. 1178/2011 Civil Aviation Aircrew.

Regulation No. 1035/2011 Common Requirements for ANS.

Regulation No. 1034/2011 Safety Oversight.

Regulation No. 677/2011 ATM Network Functions.

Regulation No. 283/2011 of 22 March 2011 amending Regulation (EC) No 633/2007 as regards the transitional arrangements referred to in Article 7.

Regulation No. 182/2011 Implementing Acts (Rules and general principles concerning mechanisms for control by Member States of the Commission's exercise of implementing powers) (Delegation of Powers to the EC).

Regulation No. 176/2011 Functional Airspace Blocks (FABs).

Regulation No. 996/2010 Investigation & Prevention of Accidents & Incidents in Civil Aviation.

Regulation No. 912/2010 setting up the European GNSS Agency.

Regulation No. 255/2010 ATFM.

Regulation No. 185/2010 Common Basic Standards on Aviation Security.

## CAP 460

**European Union Act**

Regulation No. 73/2010 Aeronautical Data Quality (ADQ).

Regulation No. 72/2010 of 26 January 2010 laying down procedures for conducting Commission inspections in the field of aviation security.

Regulation No. 1254/2009 of 18 December 2009 setting criteria to allow Member States to derogate from the common basic standards on civil aviation security and to adopt alternative security measures.

Regulation No. 1108/2009 of the European Parliament and of the Council of 21 October 2009 amending Regulation (EC) No 216/2008 in the field of aerodromes, air traffic management and air navigation services and repealing Directive 2006/23/EC (Text with EEA relevance).

Regulation No. 1070/2009 of the European Parliament and of the Council of 21 October 2009 amending Regulations (EC) No 549/2004, (EC) No 550/2004, (EC) No 551/2004 and (EC) No 552/2004 in order to improve the performance and sustainability of the European aviation system.

Regulation No. 690/2009 of 30 July 2009 amending Regulation (EC) No 216/2008 of the European Parliament and the Council on common rules in the field of civil aviation and establishing a European Aviation Safety Agency, and repealing Council Directive 91/670/EEC, Regulation (EC) No 1592/2002 and Directive 2004/36/EC.

Regulation No. 262/2009 Mode S.

Regulation No. 30/2009 of 16 January 2009 amending Regulation (EC) No 1032/2006 as far as the requirements for automatic systems for the exchange of flight data supporting data link services are concerned.

Regulation No. 29/2009 Datalink Services.

Regulation No. 1361/2008 of 16 December 2008 amending Regulation (EC) No 219/2007 on the establishment of a joint undertaking to develop the new generation European air traffic management system (SESAR).

Regulation No. 1126/2008 of 3 November 2008 adopting certain international accounting standards in accordance with Regulation (EC) No 1606/2002 of the European Parliament and of the Council.

Regulation No. 765/2008 Accreditation & Market Surveillance Relating to the Marketing of Products.

Regulation No. 482/2008 Software Safety Assurance System.

Regulation No. 300/2008 of the European Parliament and of the Council of 11 March 2008 on common rules in the field of civil aviation security and repealing Regulation (EC) No 2320/2002.

Regulation No. 216/2008 of the European Parliament and of the Council of 20 February 2008 on common rules in the field of civil aviation and establishing a European Aviation Safety Agency, and repealing Council Directive 91/670/EEC, Regulation (EC) No 1592/2002 and Directive 2004/36/EC.

Regulation No. 633/2007 Flight Message Transfer Protocol (FMTP).

Regulation (EC) No 219/2007 of 27 February 2007 on the establishment of a Joint Undertaking to develop the new generation European air traffic management system (SESAR).

Regulation (EC) No 1033/2006 of 4 July 2006 laying down the requirements on procedures for flight plans in the pre-flight phase for the single European sky.

Regulation (EC) No 1032/2006 of 6 July 2006 laying down requirements for automatic systems for the exchange of flight data for the purpose of notification, coordination and transfer of flights between air traffic control units.

Regulation (EC) No 474/2006 of 22 March 2006 establishing the Community list of air carriers which are subject to an operating ban within the Community referred to in Chapter II of Regulation (EC) No 2111/2005 of the European Parliament and of the Council.

Regulation (EC) No 2150/2005 of 23 December 2005 laying down common rules for the flexible use of airspace.

Regulation (EC) No 2111/2005 of the European Parliament and of the Council of 14 December 2005 on the establishment of a Community list of air carriers subject to an operating ban within the Community and on informing air transport passengers of the identity of the operating air carrier, and repealing Article 9 of Directive 2004/36/EC.

Regulation (EC) No 552/2004 of the European Parliament and of the Council of 10 March 2004 on the interoperability of the European Air Traffic Management network (the interoperability Regulation).

Regulation (EC) No 551/2004 of the European Parliament and of the Council of 10 March 2004 on the organisation and use of the airspace in the single European sky (the airspace Regulation).

Regulation (EC) No 550/2004 of the European Parliament and of the Council of 10 March 2004 on the provision of air navigation services in the single European sky (the service provision Regulation).

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Regulation (EC) No 549/2004 of the European Parliament and of the Council of 10 March 2004 laying down the framework for the creation of the single European sky (the framework Regulation) - Statement by the Member States on military issues related to the single European sky.

Directive (EC) No 104/2004 of 14 October 2004 adapting to technical progress Council Directive 72/245/EEC relating to the radio interference (electromagnetic compatibility) of vehicles and amending Directive 70/156/EEC on the approximation of the laws of the Member States relating to the type-approval of motor vehicles and their trailers.

Regulation No. 1049/2001 Public access to EP, Council & EC documents.

Regulation No. 45/2001 Protection of individuals with regard to the processing of personal data by EU institutions & bodies & on the free movement of such data.

Regulation (EEC) No 95/93 of 18 January 1993 on common rules for the allocation of slots at Community airports

**GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES****ANNEX 1 — PERSONNEL LICENSING, 12th edition**

No significant differences to Annex 1

**ANNEX 2 — RULES OF THE AIR, 10th edition**

<b>Difference A2-01</b>	Chapter 3 3.2.2	New Provision. Implementing Regulation (EU) No 923/2012, SERA.3210(b), specifies:  <i>“(b) An aircraft that is aware that the manoeuvrability of another aircraft is impaired shall give way to that aircraft.”</i>
<b>Difference A2-02</b>	Chapter 3 3.2.3.2(b)	Implementing Regulation (EU) No 923/2012, paragraph SERA.3215(b)(2), specifies (with the addition to ICAO Standard in Annex 2, 3.2.3.2(b) of the bold text):  <i>“(2) unless stationary and otherwise adequately illuminated, all aircraft on the movement area of an aerodrome shall display lights intended to indicate the extremities of their structure, <b>as far as practicable.</b>”</i>
<b>Difference A2-03</b>	Chapter 3 3.2.5(c) and (d)	Implementing Regulation (EU) No 923/2012, paragraph SERA.3225 differs from ICAO Standard in Annex 2, 3.2.5(c) and 3.2.5(d) in that it specifies that subparagraphs (c) and (d) do not apply to balloons:  <i>“(c) <b>except for balloons</b>, make all turns to the left, when approaching for a landing and after taking off, unless otherwise indicated, or instructed by ATC; (d) <b>except for balloons</b>, land and take off into the wind unless safety, the runway configuration, or air traffic considerations determine that a different direction is preferable.”</i>
<b>Difference A2-04</b>	Chapter 3 3.3.1.2	ICAO Annex 2, 3.3.1.2 is replaced with Implementing Regulation (EU) No 923/2012 SERA.4001(b). The differences between this ICAO Standard and this Union regulation are as follows:  With regards to VFR flights planned to operate across international borders, the Union regulation (SERA.4001(b)(5)) differs from the ICAO Standard in Annex 2, 3.3.1.2(e) with the addition of the bold text, as follows:  <i>“<b>any flight across international borders, unless otherwise prescribed by the States concerned.</b>”</i>  With regard to VFR and IFR flights planned to operate at night, an additional requirement is inserted to Union regulation SERA.4001(b)(6) as follows:  <i>“(6) any flight planned to operate at night, if leaving the vicinity of an aerodrome”</i>
<b>Difference A2-05</b>	Chapter 3 3.2.2.4	New Provision. Implementing Regulation (EU) No 923/2012, paragraph SERA.3210(c)(3)(i) differs from ICAO Standard in Annex 2, 3.2.2.4 by specifying that:  <i>“(i) <b>Sailplanes overtaking.</b> A sailplane overtaking another sailplane may alter its course to the right or to the left.”</i>

ANNEX 2 — RULES OF THE AIR, 10th edition		
<b>Difference A2-06</b>	Chapter 4 4.3	<p>New provision. ICAO Annex 2, 4.3, is replaced with Implementing Regulation (EU) No 923/2012 SERA.5005(c). The difference is that Implementing Regulation (EU) No 923/2012 adds requirements under which VFR flights at night may be permitted, as follows:</p> <p><i>“(c) When so prescribed by the competent authority, VFR flights at night may be permitted under the following conditions:</i></p> <p><i>(1) if leaving the vicinity of an aerodrome, a flight plan shall be submitted;</i></p> <p><i>(2) flights shall establish and maintain two-way radio communication on the appropriate ATS communication channel, when available;</i></p> <p><i>(3) the VMC visibility and distance from cloud minima as specified in Table S5-1 shall apply except that:</i></p> <p><i>(i) the ceiling shall not be less than 450 m (1 500 ft);</i></p> <p><i>(ii) except as specified in (c)(4), the reduced flight visibility provisions specified in Table S5-1(a) and (b) shall not apply;</i></p> <p><i>(iii) in airspace classes B, C, D, E, F and G, at and below 900 m (3 000 ft) above MSL or 300 m (1 000 ft) above terrain, whichever is the higher, the pilot shall maintain continuous sight of the surface;</i></p> <p><i>(iv) for helicopters in airspace classes F and G, flight visibility shall not be less than 3 km, provided that the pilot maintains continuous sight of the surface and if manoeuvred at a speed that will give adequate opportunity to observe other traffic or obstacles in time to avoid collision; and</i></p> <p><i>(v) for mountainous terrain, higher VMC visibility and distance from cloud minima may be prescribed.</i></p> <p><i>(4) ceiling, visibility and distance from cloud minima lower than those specified 4.3(c) above may be permitted for helicopters in special cases, such as medical flights, search and rescue operations and fire-fighting.</i></p> <p><i>(5) except when necessary for take-off or landing, or except when specifically authorised by the competent authority, a VFR flight at night shall be flown at a level which is not below the minimum flight altitude established by the State whose territory is overflown, or, where no such minimum flight altitude has been established:</i></p> <p><i>(i) over high terrain or in mountainous areas, at a level which is at least 600 m (2 000 ft) above the highest obstacle located within 8 km of the estimated position of the aircraft;</i></p> <p><i>(ii) elsewhere than as specified in (i), at a level which is at least 300 m (1 000 ft) above the highest obstacle located within 8 km of the estimated position of the aircraft.”</i></p>
<b>Difference A2-07</b>	ICAO Annex 2 Chapter 4 4.6	<p>ICAO Annex 2, 4.6, is replaced with Implementing Regulation (EU) No 923/2012 SERA.5005, introducing the obstacle clearance criteria in (f), as follows:</p> <p><i>“(f) Except when necessary for take-off or landing, or except by permission from the competent authority, a VFR flight shall not be flown:</i></p> <p><i>(1) over the congested areas of cities, towns or settlements or over an open-air assembly of persons at a height less than 300 m (1 000 ft) above the highest obstacle within a radius of 600 m from the aircraft;</i></p> <p><i>(2) elsewhere than as specified in (1), at a height less than 150 m (500 ft) above the ground or water, or 150 m (500 ft) above the highest obstacle within a radius of 150 m (500 ft) from the aircraft.”</i></p>
<b>Difference A2-08</b>	ICAO Annex 2 Chapter 3 3.8 and Appendix 2	<p>The words 'in distress' of Chapter 3 Part 3.8, are not included in Union law, thus enlarging the scope of escort missions to any type of flight requesting such service. Furthermore the provisions contained in Appendix 2 Parts 1.1 to 1.3 inclusive as well as those found in Attachment A, are not contained in Union law.</p>

ANNEX 3 — METEOROLOGY, 17th edition		
	Chapter 5	<p>New provision. Implementing Regulation (EU) No 923/2012, paragraph SERA.12005, specifies:</p> <p><i>“(b) Competent authorities shall prescribe as necessary other conditions which shall be reported by all aircraft when encountered or observed.”</i></p>

ANNEX 4 — AERONAUTICAL CHARTS, 10th edition		
NIL		



**ANNEX 5 — UNITS OF MEASUREMENT TO BE USED IN AIR AND GROUND OPERATIONS, 4th edition**

NIL

**ANNEX 6 — OPERATION OF AIRCRAFT, Part I, 10th edition; Part II, 9th edition; Part III, 8th edition**

<b>Part I Chapter 1</b>	Definitions	Aerodrome operating minima — New approach classification not yet transposed.
		<i>Large aeroplane</i> — Definition of the large aircraft combines aeroplane and helicopter.
		<i>Airworthy</i> — Not defined.
		<i>Combined vision system (CVS)</i> — This definition is not used in Reg. (EU) 965/2012.
		<i>Configuration deviation list (CDL)</i> — Not defined as a term.
		<i>Flight crew member</i> — No definition.
		<i>Maintenance organization's procedures manual</i> — Not implemented as a term.
		<i>Maintenance programme</i> — Not implemented as a term.
		<i>Maintenance release</i> — Not implemented as a term.
		<i>Required communication performance (RCP) specification</i> — Term not used.
		<i>State of the Aerodrome</i> — This definition does not exist in the EU rules.
		<i>Synthetic vision system (SVS)</i> — It is not used in the EU rules.
		<i>Target level of safety (TLS)</i> — 'Satisfactory Level of safety' is used in the European rules.
<b>Part I Chapter 3</b>	3.1.4	Reg. (EU) 965/2012 doesn't require licensing of operations officer or flight dispatcher.
	3.3.1	Only required for aeroplanes above 27000 kg.
<b>Part I Chapter 4</b>	4.2.8.1.1	R965 currently only allows operational credits for HUDs and EVS.
	4.3.4.1.3	CAT.OP.MPA.185 (a) requires period commencing one hour before and ending one hour after the estimated time of arrival at the aerodrome.
	4.3.4.3.1	European rules require a period commencing one hour before and ending one hour after the estimated time of arrival at the aerodrome.
	4.3.6.4	Part CAT requires it for each estimated mass and every flight.
	4.2.8.3	R965 has not yet transposed the new approach classification.
	4.2.8.6	R965 has not yet transposed the new approach classification.
	4.2.8.7	R965 has not yet transposed the new approach classification.
<b>Part I Chapter 4</b>	4.3.6.2	Part CAT does not require the effect of deferred maintenance items.
	4.3.7.2.2	The phraseology is addressed in a SIB. The SARPS will be transposed through RMT.0573. European rules require to declare PAN,PAN,PAN.
	4.6.1	The European rules do not require a flight operations officer.
<b>Part I Chapter 5</b>	5.4.1	SE IMC/night currently not allowed in Part CAT.
	5.4.2	SE IMC/night currently not allowed in Part CAT.

ANNEX 6 — OPERATION OF AIRCRAFT, Part I, 10th edition; Part II, 9th edition; Part III, 8th edition		
<b>Part I</b> <b>Chapter 6</b>	6.3.1.2.7	AMC6 CAT.IDE.A.190 (a) (1) & (a)(2) & (a)(3) applies to aeroplanes delivered an individual CofA before 1 June 1990.
	6.3.1.2.8	CAT.IDE.A.190 (a) (2) applies to turbine engine aeroplanes delivered an individual CofA before 1 June 1990.
	6.3.1.4	The minimum recording duration for the FDR is 25 hours or 10 hours.
	6.3.1.2.3	Minimum CVR duration is 2 hours when the individual CofA was first issued on or after 01 April 1998.
	6.3.2.1.4	CAT.IDE.A.185 (a) (1) applies to all aeroplanes with a MCTOM exceeding 5700 kg whatever the date of delivery of the individual CofA.
	6.3.2.1.5	CAT.IDE.A.185 (a) (1) applies to all aeroplanes with a MCTOM exceeding 5700 kg whatever the date of delivery of the individual CofA.
	6.3.2.1.6	CAT.IDE.A.185 (a) (1) applies to all aeroplanes with a MCTOM exceeding 5700 kg, be they turbine engine or not.
	6.3.2.3	For aeroplanes with an MCTOM of over 5 700 kg and first issued with an individual CofA on or after 01 April 1998, the minimum recording duration of the CVR is 2 hours.
	6.3.3.1.1	CAT.IDE.A.195 (a) requires recording data link communications for aeroplanes issued with an individual CofA on or after 08 April 2014.
	6.3.5.1	Part CAT requires additional instruments.
	6.19.3	Collision avoidance logic version 7.1 of ACAS II is required ahead of Annex 10 Volume IV 4.3.5.3.3 applicability date.
	6.24.2	R965 currently only allows operational credits for HUDs and EVS.
	6.3	Airborne image recorders and lightweight flight recorder are not required. For installation requirements, refer to applicable certification specifications (CS 25.1457 for CVR and CS 25.1459 for FDR). For equipment design requirements, refer to applicable ETSOs (C123 for CVR, C124 for FDR, C176 for AIR, C177 for DLR, 2C197 for ADRS and CARS).
	6.3.1.2.1	CAT.IDE.A.190 (a) (3) applies to multi engine turbine powered aeroplanes with an MCTOM of 5 700 kg or less, ICAO requires for all turbine engine. CAT.IDE.A.190 (b) (5) is applicable to aeroplanes delivered an individual CofA on or after 1 January 2016. There is no alternative choice offered to the FDR in CAT.IDE.A.190. However it is in the scope of RMT.0271.
	6.3.1.2.2	CAT.IDE.A.190 (a) (3) applies to multi engine turbine powered aeroplanes with an MCTOM of 5 700 kg or less.
	6.3.1.2.3	CAT.IDE.A.190 (a) (1) applies to aeroplanes with an individual CofA after 1 June 1990.
	6.3.1.2.4	CAT.IDE.A.190 (a) (1) applies to aeroplanes with an individual CofA after 1 June 1990.
	6.3.1.2.11	The flight parameters of Type IA should be recorded only for aeroplanes first issued with an individual CofA on or after 01 January 2016.
	6.3.1.2.12	AMC 1 CAT.IDE.A.190 (c) states that 'The parameters to be recorded should meet the performance specifications (range, sampling intervals, accuracy limits and resolution in read out) as defined in the relevant tables of EUROCAE Document ED 112, including amendments n°1 and n°2, or any later equivalent standard produced by EUROCAE.' and the table of flight parameter performance in ED 112 is only specifying a maximum recording interval of 0.125 seconds for acceleration parameters.
	6.3.1.2.13	AMC 1 CAT.IDE.A.190 (c) states that 'The parameters to be recorded should meet the performance specifications (range, sampling intervals, accuracy limits and resolution in read out) as defined in the relevant tables of EUROCAE Document ED 112, including amendments n°1 and n°2, or any later equivalent standard produced by EUROCAE.' and the table of flight parameter performance in ED 112 is only specifying a maximum recording interval of 0.125 seconds for acceleration parameters.
	6.3.1.3.2	Discontinuation of old memory media not implemented.

ANNEX 6 — OPERATION OF AIRCRAFT, Part I, 10th edition; Part II, 9th edition; Part III, 8th edition		
<b>Part I Chapter 6</b>	6.3.1.3.3	Discontinuation of old memory media not implemented.
	6.3.1.3.4	Discontinuation of old memory media not implemented, however Opinion 01/2014 proposes discontinuation by 01 January 2019.
	6.3.1.3.5	Discontinuation of old memory media not 6.3.1.3.5 implemented.
	6.3.2.1.1	CVR for light aircraft not implemented.
	6.3.2.1.2	CVR for light aircraft not implemented.
	6.3.2.2.1	Discontinuation of old memory media not implemented, however Opinion 01/2014 proposes discontinuation by 01 January 2019.
	6.3.2.2.2	Discontinuation of old memory media not implemented, however Opinion 01/2014 proposes discontinuation by 01 January 2019.
	6.3.2.3.2	Retrofit extension of recording duration to two hours not implemented, however Opinion 01/2014 proposes retrofit by 01 January 2019.
	6.3.2.3.3	For aeroplanes with an MCTOM of over 5 700 kg and first issued with an individual CofA on or after 1 April 1998, the minimum recording duration of the CVR is 2 hours.
	6.3.2.3.4	Not implemented.
	6.3.2.4.3	Not implemented.
	6.3.3.1.2	Retrofit of data link communication recording 6.3.3.1.2 not implemented.
	6.3.4.4	It is not required that the FDR documentation is in electronic format.
	6.3.4.5.1	The carriage of two combination recorders is an alternative to carrying single function flight recorder.
	6.3.4.5.2	Requirement of a dual combination recorder configuration for MCTOM exceeding 15000 kg not implemented.
	6.5.2.1	Carriage of life jackets when flying en route over water beyond gliding distance from the shore, in the case of all other landplanes (not operated in accordance with 5.2.9 or 5.2.10) not implemented.
	6.5.3.1	ULB currently not required.
	6.20.2	Resolution of 7.62 m for the pressure altitude reporting transponder not implemented.
	6.20.3	Resolution of 7.62 m for the pressure altitude reporting transponder not implemented.
	6.20.4	Resolution of 7.62 m for the pressure altitude reporting transponder not implemented.
	6.22.1	Not implemented.
	6.22.2	Not implemented.
	6.24.1	R965 does not contain rules for SVS and EVS.
	6.25.1	No implementing rule available. AMC20 25 only partly addresses the standard.
	6.25.2.1	No implementing rule available. AMC20 25 only partly addresses the standard.
	6.25.2.2	No implementing rule available. AMC20 25 only partly addresses the standard.
	6.25.3	No implementing rule available. AMC20 25 only partly addresses the standard.
<b>Part I Chapter 7</b>	7.1.3	Less protective or partially implemented or not implemented.
<b>Part I Chapter 8</b>	8.2.1	EU requirements do not address the human factors principles.
	8.2.2	The AMC requires the procedures to be held current. The procedures imply the CAME.
	8.2.4	Non-compliance relates to the requirement to provide the manual to the State of Registry if different from the SofO. It is currently required to be approved by the State of Operator,
	8.3.1	Non-compliance relates to the requirement for HF in MP design.
	8.3.2	Maintenance programme should be provided by the operator as part of the maintenance data in accordance with Part 145.
	8.4.1	Non compliance refers to the item f) where only aircraft and service LLP's records in are concerned Part M. EU rules impose this requirement on the maintenance organisation through the 145.A.50(a).
	8.4.2	In relation to the items d) and e) Part M doesn't specify in corresponding provisions how long the records should be kept after the aircraft has been withdrawn from service but those records are still required to be kept under the provisions of M.A.305(h)(1) at least 36 months after release to service.

ANNEX 6 — OPERATION OF AIRCRAFT, Part I, 10th edition; Part II, 9th edition; Part III, 8th edition		
Part I Chapter 8	8.4.3	More Exacting or Exceeds.
	8.7.4.1	Part 145 additionally requires to take into account human factors and human performance, provision and control of specialized services, procedure to minimize the risk of multiple errors and capture errors on multiple systems.
	8.7.2.3	Part 145 does not provide for a direct requirement for distribution of the MPM to the end users, however the paragraphs 145.A.70 (b) and AMC 145.A.70 (3) (5) have that objective.
	8.7.6.2	Part 145 requires to have a man hour plan showing that organisation is having sufficient staff.
	8.7.6.4	Requirement is reflected in two articles; one for the certifying staff, another is for the rest of the personnel.
	8.7.7.1	Part 145 requires to keep also subcontractor's release documents.
	8.7.6.3	Non-compliance relates to the qualification with Annex 1 - it is not required for component certifying staff, specialized services certifying staff. In accordance with Art 5(6)(ii) of Reg. 1321/2014 the national requirements of the Member State for the component certifying staff apply.
	8.8.3	Non-compliance is identified in relation to the requirement for Certifying Personnel identity in the aircraft CRS.
Part I Chapter 9	9.4.3.3	AMC1 ORO.FC. 105(b) (2);(c) [(c)] AMC2 ORO.FC. 105(c) [(a)&(b)] European rules have implemented a categorisation of aerodromes (A,B,C and/or demanding/not demanding). Rules achieve same safety level even though the classification is slightly different.
	9.4.4.1	The rule allows ATQP as an alternative to the prescriptive training requirements. Even though checking intervals can be extended, the same or even higher level needs to be achieved. For operations under VFR by day of performance class B aeroplanes conducted during seasons not longer than 8 consecutive months one OPC is sufficient.
Part I Chapter 10	10.4	Not transposed.
	10.5	Not transposed.
Part I Chapter 11	11.4.3	3 months storage period required under Reg. 11.4.3 965/2012.
Part I Chapter 12	12.4	In addition to the completion of initial training required by the Air Ops Regulation Reg. (EU) 965/2012, the Aircrew Reg. (EU) 1178/2011 also requires the issuing of a cabin crew attestation to each cabin crew member who will be operating in CAT operations. This attestation shall be issued in accordance with the mandatory EASA Form 142 (Appendix II to Part ARA). This attestation is considered valid as long as the holder acts as cabin crew and completes the other training required by the Air Ops Regulation. If a holder stops operating during more than 5 years, his/her attestation becomes invalid and initial training has to be completed again.
Part I Chapter 13	13.4.1	BR 216/2008 & Reg. 965/2012 only mention generic security training required, but not as detailed as in ICAO.
	13.4.2	Regulation (EU) 965/2008 only requires training on flight crew compartment procedures.
Part II Chapter 1	Definitions	<i>Large aeroplane</i> — Definition of the large aircraft combines aeroplane and helicopter.
		<i>Combined vision system (CVS)</i> — Term not yet defined in European rules. Will be transposed with RMT.0379 (AWO).
		<i>Corporate aviation operation</i> — Term not used.
		<i>Electronic flight bag (EFB)</i> — Not defined for non commercial operations.
		<i>Flight crew member</i> — No definition.
		<i>Industry codes of practice</i> — Not defined.
		<i>Maintenance</i> — EASA definition excludes pre flight inspections, having a separate definition.
		<i>Maintenance programme</i> — Not defined.
		<i>Maintenance release</i> — Not defined.
		<i>Operations manual</i> — Not implemented as a term.
		<i>Repair</i> — Term not used.
		<i>Required communication performance (RCP) specification</i> — Term not used.

ANNEX 6 — OPERATION OF AIRCRAFT, Part I, 10th edition; Part II, 9th edition; Part III, 8th edition		
Part II Chapter 1		<i>Synthetic vision system (SVS)</i> — Term not yet defined in European rules.
		<i>Target level of safety (TLS)</i> — Not defined.
Part II Chapter 2	2.1.1.5	No specific requirement for non commercial operations of other than complex aircraft.
	2.2.4.2	European rules only allow a rotor to be turned under power for the purpose of flight or maintenance.
	2.2.8.1.1	R965 currently only allows operational credits for HUDs and EVS.
	2.4.11.2	Not implemented.
	2.4.11.3	Not implemented.
	2.4.16.1.2.1	Currently, only aeroplanes with an MCTOM of over 5 700 kg are required to carry an FDR by Part NCC. There is no flight recorder carriage requirement in Part NCO.
	2.4.16.1.2.2	There is no flight recorder carriage requirement in Part NCO.
	2.4.16.1.3.4	Discontinuation of magnetic tape FDR not implemented.
	2.4.16.1.3.5	Discontinuation of magnetic tape FDR not implemented.
	2.4.13.2	<b>SSR TRANSPONDER</b> (a) The secondary surveillance radar (SSR) transponders of aeroplanes being operated under European air traffic control should comply with any applicable Single European Sky legislation. (b) If the Single European Sky legislation is not applicable, the SSR transponders should operate in accordance with the relevant provisions of Volume IV of ICAO Annex 10.
	2.4.16.2.1	CVR for light aircraft not implemented.
	2.4.16.2.1.1	Less protective or partially implemented or not Implemented.
	2.4.16.2.2.1	Discontinuation of magnetic memory media not yet implemented, however Opinion 01/2014 proposes discontinuation by 1 January 2019.
	2.4.16.2.3.3	NCC.IDE.A.160 only requires carriage of a CVR for aeroplanes first issued with individual CofA on or after 2016. Not implemented in Part NCO.
	2.4.16.3.1.2	Retrofit of data link communication recording not implemented.
	2.4.16.3.2	Not implemented in Part NCO.
	2.4.16.3.3	Not implemented in Part NCO.
	2.4.16.4.2.1	Not implemented in Part NCO.
	2.4.16.4.2.2	Not implemented in Part NCO.
	2.4.16.4.3	NCC.GEN.145(a) Reg. (EU) 965/2012.
	2.4.16.4.4	Not implemented in Part NCO.
	2.4.16.4.5	It is not required that the FDR documentation is in electronic format.
	2.4.17.1	NCC.GEN.130 and NCO.GEN.125 only addresses the potential effect on the performance of the aircraft system and not on the ability to operate the aeroplane.
	2.4.17.2.1	NCC: EFB failure is not addressed. NCO: Except the general requirement on PED, there is no specific requirement applicable to EFBs.
	2.4.17.2.2	Except for mass and balance applications, there is no specific operational criteria for the use of EFB functions to be used for the safe operation of aeroplanes. Not implemented in Part NCO.
	2.6.1.1	The non-compliance is identified only in regards to the CAW procedures accepted by the State of Registry in case of the of the aeroplanes other than large managed by the individuals. It is not required. In these cases the rule prescribes how the CAW management shall be performed.
	2.6.2.1	The non-compliance refers to the item f) where only aircraft and service LLP's records in are required to kept by the owner. EU rules impose the requirement to keep all the records on the maintenance organisation through the 145.A.55(a).
	2.6.2.2	In relation to the items d) and e) Part M doesn't specify in corresponding provisions how long the records should be kept after the aircraft has been withdrawn from service but those records are still required to be kept under the provisions of M.A.305(h)(1) at least 36 months after release to service.

ANNEX 6 — OPERATION OF AIRCRAFT, Part I, 10th edition; Part II, 9th edition; Part III, 8th edition		
<b>Part II Chapter 2</b>	2.6.2.3	Part M requires to transfer Technical logbook as well the time periods are applicable to the new owner/operator. Temporary transfer is defined and consists of 6 months. Part M does not contain provisions for alleviation from relevant maintenance records on board of an aircraft.
	2.6.4.1	The non-compliance is identified only in regards to the availability of the procedures accepted by the State of Registry during the maintenance of the aeroplanes other than large by the individuals. Part M does not specify in M.A.801/M.A.802 that maintenance shall be performed in accordance with the maintenance data and the procedures acceptable to the State of Registry, but following the maintenance data is required by M.A.402 performance of maintenance.
	2.6.4.2	Non-compliance is identified in relation to the requirement for Certifying Personnel identity in the aircraft CRS when the maintenance is released by Part 145 AMO.
	2.9.1	Reg. (EC) 300/2008 does not include any reference to pilot in command responsibilities.
<b>Part II Chapter 3</b>	3.1.2	Definition of complex motor powered aeroplane includes aeroplanes only with a MOPSC of more than 19.
	3.1.2.1	Such operations are not allowed.
	3.4.1	Such operations are not allowed.
	3.4.2	Such operations are not allowed.
	3.4.2.1.1	Not implemented.
	3.4.2.1.2	Not implemented.
	3.4.3	Such operations are not allowed.
	3.4.3.5.2	European rules use a performance based condition to cover (b)(3), (b)(4) and (b)(7) "any other condition that may increase fuel consumption."
	3.4.4	Such operations are not allowed.
	3.6.3.1.1.2	Less protective or partially implemented or not implemented.
	3.6.3.1.1.3	No retroactive FDR carriage requirement for aeroplanes above 5700 kg MCTOM.
	3.6.3.2.1.1	According to NCC.IDE.A.160 (a)(2), an aeroplane model is eligible for carrying a CVR if its MCTOM is more than 2 250 kg, it is certified for operation with at least 2 pilots and it is equipped with at least one turbojet engine or several turboprop engines. All these conditions together restrict more the set of eligible aeroplanes than Standard 3. 6.3.2.1 does.
	3.6.3.2.1.2	No retroactive CVR carriage requirement for aeroplanes above 27000 kg MCTOM.
	3.6.3.2.1.3	No retroactive CVR carriage requirement for aeroplanes above 5700 kg MCTOM.
	3.6.9.1	European Regulatory system requires ACAS II to turbine engine aeroplanes with an MCTOM of more than 5700 kg or MOPSC of more than 19.
	3.8.1.1	Same input as in SARP 2.6.1.1. because of the mismatch of the definition of 'Large aircraft' and applicability clause 3.1.1(b) in Part II Annex 6 'b) aeroplanes equipped with one or more turbojet engines.'
	3.8.1.2	Covers aeroplanes with MTOW more than 5700 kg. For the aeroplanes equipped with one or more turbojet engines and with seating configuration of more than 9 passenger seats with MTOW < 5700 kg the recommendation is not implemented.
<b>Part II Chapter 3</b>	3.8.3.1	Non-compliance relates to the requirement for HF in MP design and for the application of MP the HF principles are not taken into account for the maintenance out of Part 145 organisations of the aeroplanes with one or more turbojet engine and /or with seating configuration more than 9 passengers having MTOW < 5700kg.
	3.8.3.2	Maintenance programme should be provided by the operator as part of the maintenance data in accordance with Part 145 and Part M.
	3.8.5.2	Non-compliance is identified in relation to the maintenance release of the large aeroplanes for the requirement for Certifying Personnel identity in the aircraft CRS.
	3.8.4	For the transmission of the information as per Annex 8 there is no alleviation related to MTOW - required from all aeroplanes' owners.
	3.13.1	Article 10 of Reg. 300/2008 is directed towards the Member State and not the operator. Art. 14 requires the entity to establish a programme.

ANNEX 6 — OPERATION OF AIRCRAFT, Part I, 10th edition; Part II, 9th edition; Part III, 8th edition		
Part II Chapter 4	4.3.1.2.1	The MCTOM threshold provided in CAT.IDE.H.190 is 3175 kg instead of 3180 kg.
	4.3.1.2.2	The passenger capacity threshold in CAT.IDE.H.190 4.3.1.2.2 (a)(1) is 9 and not 19. 4.
	4.5.2.6	The AMC is applicable to all helicopters regardless of the date of issuance of the CofA.
	4.16.2	R965 currently only allows operational credits for HUDs and EVS.
Part II Chapter 6	6.4.3	Part M requires to transfer TLB as well and the time periods are applicable to the new owner/operator. Temporary transfer is defined and consists of 6 months.
Part II Chapter 7	7.2	ICAO Annex 6 SARPS 7.2 established provisions for each type of helicopter, ORO.FC.130 (a) Required for each type and variant. ORO.GEN.110(h) requires the use of a checklist, ICAO Annex6 9.2 does not require it.
Part II Chapter 10	10.3	In addition to the completion of initial training required by the Air Ops Reg. (EU) 965/2012, the Aircrew Reg. (EU) 1178/2011 also requires the issuing of a cabin crew attestation to each cabin crew member who will be operating in CAT operations. This attestation shall be issued in accordance with the mandatory EASA Form 142 (Appendix II to Part ARA). This attestation is considered valid as long as the holder acts as cabin crew and completes the other training required by the Air Ops Regulation. If a holder stops operating during more than 5 years, his/her attestation becomes invalid and initial training has to be completed again.
Part III Chapter 1	Definitions	<i>Airworthy</i> — No definition as such.
		<i>Combined vision system (CVS)</i> — This definition is not used in Reg. (EU) 965/2012.
		<i>Configuration deviation list (CDL)</i> — Not defined as a term.
		<i>Flight crew member</i> — No definition
		<i>Maintenance organization's procedures manual</i> — Not implemented as a term.
		<i>Maintenance programme</i> — Not implemented as a term.
		<i>Maintenance release</i> — Not implemented as a term.
		<i>Operation</i> — No definition.
		<i>Operator's maintenance control manual</i> — Not implemented as a term.
		<i>Required communication performance (RCP) specification</i> — Term not used.
		<i>State of the Aerodrome</i> — This definition does not exist in the EU rules.
		<i>Synthetic vision system (SVS)</i> — It is not used in the EU rules.
		<i>Take-off and initial climb phase</i> — No definition as such. Explanation used in European rules. Same safety margins. But differences exist depending of the performance class of the Helicopter.
	1.1.4	Reg. (EU) 965/2012 doesn't require licensing of operations officer or flight.
	1.1.5	Fully implemented for NCC, but not implemented for 1.1.5 NCO.
	1.3.1	No requirement for a flight data analysis programme for helicopter operations.
Part III Chapter 2	2.4.9.3	The phraseology is addressed in a SIB. The SARPS will be transposed through RMT.0573. European rules require to declare PAN,PAN,PAN.
	2.6.1	The European rules do not require a flight operations officer.
	2.6.2.1	Heliport of intended landing OR at least one alternate heliport will, at the estimated time of arrival, be at or above the heliport operating minima.
	2.7.1	For isolated heliports the minimum weather conditions defined in 2.6.2.2 have to prevail AND all the other conditions must be met.
	2.9.2	Not implemented.
	2.17.1	Not implemented.
	2.19.1	Procedure is forbidden with AVGAS or wide cut fuel.
	2.19.2	Fully implemented as a requirement for NCC operators. Not implemented for NCO.
	2.20	Not implemented for flights at a distance from land corresponding to 10 minutes of flight or less (NCC), 50NM (NCO). For greater distances, an emergency floatation device can be used as another means of compliance.
Part III Chapter 3	3.3	Partially implemented through safety management for NCC, not implemented for NCO.

ANNEX 6 — OPERATION OF AIRCRAFT, Part I, 10th edition; Part II, 9th edition; Part III, 8th edition		
Part III Chapter 4	4.1.3.2	Not implemented. (not really applicable for helicopters as the requirement for built in fire extinguishers in lavatories derives from CS 25 only).
	4.1.3.3	Implemented only on flights where survival equipment is required for NCC operators. Recommender for NCO operators.
	4.2.1	The following additional instruments are also prescribed: a means of measuring slip. For NCC operations over water, all instruments required for Night VFR are also required.
	4.2.2.1	Not implemented yet.
	4.2.2	Universal precaution kit and spare electrical fuses are not required.
	4.2.3	The following additional instruments are also prescribed: An alternate source of static pressure. Whenever 2 pilots are required, an additional separate means of indicating pressure altitude, IAS, VS, slip, and stabilised heading.
	4.3.1.1.1	CAT.IDE.H.190 recommends compliance with ED 112 only for helicopters manufactured on or after 01 January 2016.
	4.3.1.2.3	Required for helicopters first issued with an individual CofA on or after 01 August 1999.
	4.3.1.2.4	Not implemented.
	4.3.1.2.5	Not implemented.
	4.3.1.3.2	Discontinuation of frequency modulation FDR not implemented, European rules allow the use of it.
	4.3.1.3.4	Discontinuation of frequency modulation FDR not implemented.
	4.3.1.3.5	Discontinuation of frequency modulation FDR not implemented.
	4.3.1.3.6	Discontinuation of frequency modulation FDR not implemented.
	4.3.1.4	Only in the case of helicopters first issued with an individual CofA on or after 01 January 2016 (corresponding to type IVA) is the FDR required to record data for at least the preceding 10 hours.
	4.3.2.2.1	Discontinuation of magnetic tape CVR not implemented, however Opinion 01/2014 proposes discontinuation by 01 January 2019.
	4.3.2.2.2	Discontinuation of magnetic tape CVR not implemented, however Opinion 01/2014 proposes discontinuation by 01 January 2019.
	4.3.2.3.3	Not implemented.
	4.3.2.4	Not implemented for NCO operators.
	4.3.2.5	Implemented for NCC operators. Not implemented for NCO operators.
	4.3.2.6	Implemented for NCC operators. Not implemented for NCO operators.
	4.3.3.1.2	Not implemented.
	4.3.4.4	It is not required that the FDR documentation is in electronic format.
	4.4.4	European rules do not require Ground Proximity Warning system for helicopters.
	4.5.2	No provisions for pressurised helicopters.
	4.5.3.2	Considerations on sun not included.
	4.6	No English translation is required.
	4.7.1.1.1	Provisions related to type IVA FDRs are not implemented.
	4.7.1.1.3	Provisions related to type V FDRs are not implemented.
	4.7.1.2.1	Fully implemented for NCC. Not implemented for NCO.
	4.7.1.2.2	Not implemented.
	4.7.1.2.3	Not implemented.
	4.7.2.1.1	Implemented only for NCC operators with helicopters for which the individual CofA is first issued on or after 01 January 2016.
	4.7.2.1.2	Not implemented.
	4.8.4	Not implemented.
	4.11.2	The safety risk assessment is not required for NCO operators.
	4.12	NCC.GEN.130 and NCO.GEN.125 only address the potential effect on the performance of the aircraft system and not on the ability to operate the helicopter.
	4.12.1	NCC.GEN.130 and NCO.GEN.125 only address the potential effect on the performance of the aircraft system and not on the ability to operate the helicopter.



ANNEX 6 — OPERATION OF AIRCRAFT, Part I, 10th edition; Part II, 9th edition; Part III, 8th edition		
<b>Part III Chapter 4</b>	4.12.2.2	Except for mass and balance applications, there is no specific operational criteria for the use of EFB functions to be used for the safe operation of helicopters, and the scope of AMC 20 25 is limited to CAT operators.
	4.12.3	Except for mass and balance applications, there is no specific operational criteria for the use of EFB functions to be used for the safe operation of helicopters, and the scope of AMC 20 25 is limited to CAT operators.
	4.15	Less protective or partially implemented or not implemented.
	4.17.1	No implementing rule available. AMC20 25 only partly addresses the standard.
	4.17.2.1	No implementing rule available. AMC20 25 only partly addresses the standard.
	4.17.2.2	No implementing rule available. AMC20 25 only partly addresses the standard.
	4.17.3	No implementing rule available. AMC20 25 only partly addresses the standard.
	4.3.1.1.3	Less protective or partially implemented or not implemented.
<b>Part III Chapter 6</b>	6.1.3	Non-compliance relates to the qualification in accordance with Annex 1 — it is not required for component certifying staff, specialized services certifying staff working in Part M, Subpart F organisations.
	6.2.1	The non-compliance refers to the item f) where only aircraft and service LLP's records in are required to kept by the owner. EU rules impose the requirement to keep all the records on the maintenance organisation through the 145.A.55(a).
	6.2.4	Non-compliance relates to the requirement to provide the manual to the State of Registry if different from the SofO. It is currently required to be approved by the State of Operator.
	6.3.1	Non-compliance is in relation to the requirement for HF in MP design.
	6.2.2	The AMC requires the procedures to be held.
	6.2.3	The basic requirements apply to the amendments as well as procedures required to be current.
	6.3.2	Maintenance programme should be provided by the operator as part of the maintenance data in accordance with Part 145.
	6.4.1	Non-compliance refers to the item f) where only aircraft and service LLP's records in are concerned Part M. EU rules impose this requirement on the maintenance organisation through the 145.A.50(a).
	6.4.2	In relation to the items d) and e) Part M doesn't specify in corresponding provisions how long the records should be kept after the aircraft has been withdrawn from service but those records are still required to be kept under the provisions of M.A.305(h)(1) at least for 36 months after release to service.
	6.5.2	Non-compliance is identified in relation to the requirement for Certifying Personnel identity in the aircraft CRS when the maintenance is released by Part 145 AMO.
	6.7.2	Non-compliance is identified in relation to the requirement for Certifying Personnel identity in the aircraft CRS.
	6.8.2	For a), b)(1) it is required to be kept for 12 months after aircraft is permanently withdrawn from service. However for b)(2)(3) and c) Part M doesn't specify in corresponding provisions how long the records should be kept after the aircraft has been withdrawn from service. Nevertheless those records are still required to be kept under the provisions of M.A.305(h)(1) at least for 36 months after release to service.
<b>Part III Chapter 7</b>	7.1	Fully implemented for NCC. Not implemented for NCO.
	7.2	CPL license includes training related to radio communication. Even a rating is included. Obtaining a CPL license certificate qualifies in the use of radio communications in an ICAO equivalent requirements.
<b>Part III Chapter 8</b>	8.2	ORO.GEN.110 Reg. (EU) 965/2012
	8.3	No detailed requirement for flight dispatchers training.
	8.4	Not transposed.
	8.5	Not transposed.
<b>Part III Chapter 9</b>	9.2	No procedures are foreseen in accordance with item m) because under the AIR OPS in most of the cases Regulation 1321/2014 applies. The Non compliance could be only in case AMC1 ORO.AOC.110(c) - special continuing airworthiness requirements related to the 'wet lease in' of the aircraft from the 3d country.
	9.4.3	3 months storage period required under Reg. 9.4.3 965/2012

ANNEX 7 — AIRCRAFT NATIONALITY AND REGISTRATION MARKS, 5th edition		
NIL		
ANNEX 8 — AIRWORTHINESS OF AIRCRAFT, 10th edition		
	4.1.6(g); 4.1.6(h); 4.1.6(i)	Considerations are not implemented.
	11.1; 11.2. 11.3 and subparts K1, K2 and K3	Considerations are not implemented.
ANNEX 9 — FACILITATION, 12th edition		
NIL		
ANNEX 10 — AERONAUTICAL TELECOMMUNICATIONS, Vol. I, 6th edition; Vol. II, 6th edition; Vol. III, 2nd edition; Vol. IV, 4th edition; Vol. V, 2nd edition		
<b>Difference A10-01</b>	ICAO Annex 10 Volume II Chapter 5 5.2.1.4.1	<p>ICAO Annex 10, Volume II, Chapter 5.2.1.4.1 is transposed in point SERA.14035 of Implementing Regulation (EU) No 923/2012 with some differences. The differences between that ICAO Standard and that Union Regulation are as follows:</p> <p><b>SERA.14035 Transmission of numbers in radiotelephony</b></p> <p>(a) Transmission of numbers</p> <ol style="list-style-type: none"> <li>All numbers used in the transmission of aircraft call sign, headings, runway, wind direction and speed shall be transmitted by pronouncing each digit separately. <ol style="list-style-type: none"> <li>Flight levels shall be transmitted by pronouncing each digit separately except for the case of flight levels in whole hundreds.</li> <li>The altimeter setting shall be transmitted by pronouncing each digit separately except for the case of a setting of 1 000 hPa which shall be transmitted as "ONE THOUSAND".</li> <li>All numbers used in the transmission of transponder codes shall be transmitted by pronouncing each digit separately except that, when the transponder codes contain whole thousands only, the information shall be transmitted by pronouncing the digit in the number of thousands followed by the word "THOUSAND".</li> </ol> </li> <li>All numbers used in transmission of other information than those described in point (a)(1) shall be transmitted by pronouncing each digit separately, except that all numbers containing whole hundreds and whole thousands shall be transmitted by pronouncing each digit in the number of hundreds or thousands followed by the word "HUNDRED" or "THOUSAND", as appropriate. Combinations of thousands and whole hundreds shall be transmitted by pronouncing each digit in the number of thousands followed by the word "THOUSAND", followed by the number of hundreds, followed by the word "HUNDRED".</li> <li>In cases where there is a need to clarify the number transmitted as whole thousands and/or whole hundreds, the number shall be transmitted by pronouncing each digit separately.</li> <li>When providing information regarding relative bearing to an object or to conflicting traffic in terms of the 12-hour clock, the information shall be given pronouncing the digits together such as "TEN O'CLOCK" or "ELEVEN O'CLOCK".</li> <li>Numbers containing a decimal point shall be transmitted as prescribed in point (a)(1) with the decimal point in appropriate sequence indicated by the word "DECIMAL".</li> <li>All six digits of the numerical designator shall be used to identify the transmitting channel in Very High Frequency (VHF) radiotelephony communications except in the case of both the fifth and sixth digits being zeros, in which case only the first four digits shall be used. 21.7.2016 L 196/42 Official Journal of the European Union EN.</li> </ol>

**ANNEX 10 — AERONAUTICAL TELECOMMUNICATIONS, Vol. I, 6th edition; Vol. II, 6th edition; Vol. III, 2nd edition; Vol. IV, 4th edition; Vol. V, 2nd edition**

<b>Difference A10-02</b>	ICAO Annex 10 Volume II Chapter 5 5.2.1.7.3.2.3	ICAO Annex 10, Volume II, Chapter 5.2.1.7.3.2.3 is transposed in point SERA.14055 of Implementing Regulation (EU) No 923/2012 with a difference. The difference between that ICAO Standard and that EU Regulation is as follows:  SERA.14055 Radiotelephony procedures “(b)(2)The reply to the above calls shall use the call sign of the station calling, followed by the call sign of the station answering, which shall be considered an invitation to proceed with transmission by the station calling. For transfers of communication within one ATS unit, the call sign of the ATS unit may be omitted, when so authorised by the competent authority.”
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**ANNEX 11 — AIR TRAFFIC SERVICES, 13th edition**

<b>Difference A11-01</b>	Chapter 2 Paragraph 2.25.5	Implementing Regulation (EU) No 923/2012 SERA.3401(d)(1) differs from ICAO Annex 11, standard 2.25.5 by stating that: ‘Time checks shall be given <b>at least</b> to the nearest minute’
<b>Difference A11-02</b>	Chapter 2 Paragraph 2.6.1	Exemption possibility. Implementing Regulation (EU) No 923/2012 paragraph SERA.6001 allows aircraft to exceed the 250 knot speed limit where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed.
<b>Difference A11-03</b>	Chapter 3	New provision. Implementing Regulation (EU) No 923/2012, paragraph SERA.8005(b), specifies:  “(b) Clearances issued by air traffic control units shall provide separation: 1. between all flights in airspace Classes A and B; 2. between IFR flights in airspace Classes C, D and E; 3. between IFR flights and VFR flights in airspace Class C; 4. between IFR flights and special VFR flights; 5. between special VFR flights unless otherwise prescribed by the competent authority; except that, when requested by the pilot of an aircraft <b>and agreed by the pilot of the other aircraft</b> and if so prescribed by the competent authority for the cases listed under (b) above in airspace Classes D and E, a flight may be cleared <b>subject to maintaining own separation in respect of a specific portion of the flight below 3 050 m (10 000 ft) during climb or descent, during day in visual meteorological conditions.</b> ”
<b>Difference A11-04</b>	Chapter 3	Implementing Regulation (EU) No 923/2012, paragraph SERA.8015, specifies (with the addition to ICAO Standard in Annex 11, 3.7.3.1 of the bold text):  “(e) Read-back of clearances and safety-related information The flight crew shall read back to the air traffic controller safety-related parts of ATC clearances and instructions which are transmitted by voice. The following items shall always be read back: i. ATC route clearances; ii. clearances and instructions to enter, land on, take off from, hold short of, cross, <b>taxi</b> and backtrack on any runway; and iii. runway-in-use, altimeter settings, SSR codes, <b>newly assigned communication channels</b> , level instructions, heading and speed instructions; and iv. transition levels, whether issued by the controller or contained in ATIS broadcasts.”
<b>Difference A11-05</b>	Chapter 3	Implementing Regulation (EU) No 923/2012, paragraph SERA.8015(e)(2), specifies (with the addition to ICAO Standard in Annex 11, 3.7.3.1.1 of the bold text):  “(2) Other clearances or instructions, including conditional clearances <b>and taxi instructions</b> , shall be read back or acknowledged in a manner to clearly indicate that they have been understood and will be complied with.”

ANNEX 11 — AIR TRAFFIC SERVICES, 13th edition		
<b>Difference A11-06</b>	Chapter 3	<p>New provision. Implementing Regulation (EU) No 923/2012, paragraph SERA.5010, specifies:</p> <p><b>SERA.5010 Special VFR in control zones</b></p> <p>Special VFR flights may be authorised to operate within a control zone, subject to an ATC clearance. Except when permitted by the competent authority for helicopters in special cases such as, but not limited to, police, medical, search and rescue operations and fire-fighting flights, the following additional conditions shall be applied:</p> <ol style="list-style-type: none"> <li>such special VFR flights may be conducted during day only, unless otherwise permitted by the competent authority;</li> <li>by the pilot: <ol style="list-style-type: none"> <li>clear of cloud and with the surface in sight;</li> <li>the flight visibility is not less than 1 500 m or, for helicopters, not less than 800 m;</li> <li>fly at speed of 140 kts IAS or less to give adequate opportunity to observe other traffic and any obstacles in time to avoid a collision; and</li> </ol> </li> <li>An air traffic control unit shall not issue a special VFR clearance to aircraft to take off or land at an aerodrome within a control zone, or enter the aerodrome traffic zone or aerodrome traffic circuit when the reported meteorological conditions at that aerodrome are below the following minima: <ol style="list-style-type: none"> <li>the ground visibility is less than 1 500 m or, for helicopters, less than 800 m;</li> <li>the ceiling is less than 180 m (600 ft).</li> </ol> </li> </ol>

ANNEX 12 — SEARCH AND RESCUE, 8th edition		
NIL		

ANNEX 13 — AIRCRAFT ACCIDENT INVESTIGATION, 9th edition		
NIL		

ANNEX 14 — AERODROMES, Vol. I, 4th edition; Vol. II, 2nd edition		
	3.4.3	The strip width for RWY 05/23 at Malta International Airport is not uniform and varies from 183m to 137m.
	3.4.6 & 3.4.7	Buildings and hangars encroach onto strip of RWY 05/23 at Malta International Airport near THR of RWY 05/23.
	5.3.19.9	Selectively switchable stopbars are not installed in conjunction with taxiway centreline lights – not technically feasible to modify existing lighting control system.
	5.3.19.13(c) & (d)	When stopbar is illuminated, taxiway centreline lights beyond the stopbar remain lighted. When lights beyond stopbar are illuminated, the stopbar lights remain lighted – not technically feasible to modify existing lighting control system.

ANNEX 15 — AERONAUTICAL INFORMATION SERVICES, 12th edition		
NIL		

ANNEX 16 — ENVIRONMENTAL PROTECTION, Vol. I, 6th edition; Vol. II, 3rd edition; Vol. III, Initial Edition		
NIL		

ANNEX 17 — SECURITY – SAFEGUARDING INTERNATIONAL CIVIL AVIATION AGAINST ACTS OF UNLAWFUL INTERFERENCE, 8th edition		
NIL		

ANNEX 18 — THE SAFE TRANSPORT OF DANGEROUS GOODS BY AIR, 4th edition		
	2.1.1	Reg.(EU)965/2012 requires an approval to transport dangerous goods (except for ELA 2 aircraft) in addition to the requirements of Annex 18 and the Technical Instructions.
	2.1.2	Reg.(EU)965/2012 requires an approval to transport dangerous goods in addition to the requirements of Annex 18 and the Technical Instructions.
	2.2.1	Reg.(EU)965/2012 requires an approval to transport dangerous goods (except for ELA 2 aircraft) in addition to the requirements of Annex 18 and the Technical Instructions.
	2.3	Annex 18 and the Technical Instructions are applicable through Reg. (EU) 965/2012 to domestic operations.
	9.6.1	Information to be notified is specified.
	9.6.2	Information to be notified is specified.

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**GEN 2 TABLES AND CODES****GEN 2.1 MEASURING SYSTEM, AIRCRAFT MARKINGS, HOLIDAYS****1. Units of measurement**

- 1.1 The table of units of measurement shown below will be used within Malta FIR/UIR for air and ground operations.

<i>For measurement of</i>	<i>Units used</i>
Distance used in navigation, position reporting etc. — generally in excess of 2 NM	Nautical Miles and tenths
Relatively short distances such as those relating to aerodromes (e.g. runway lengths)	Metres
Altitudes, elevations and heights	Feet
Horizontal speed including wind speed	Knots
Vertical speed	Feet per minute
Wind direction for landing and taking off	Degrees Magnetic
Wind direction except for landing and taking off	Degrees True
Visibility including runway visual range	Kilometres or metres
Altimeter setting	Hectopascal
Temperature	Degrees Celsius
Weight	Metric Tonnes or Kilogrammes
Time	Hours and minutes, beginning at midnight UTC

**2. Temporal reference system**

- 2.1 Co-ordinated Universal Time (UTC) is used by air navigation services and in publications issued by the Aeronautical Information Service. Reporting of time is expressed in hours and minutes of the 24-hour day beginning at midnight. Minutes are expressed to the nearest minute e.g. 12:40:35 is reported as 1241.

- 2.1.1 A time check shall be obtained prior to operating a controlled flight and at such other times during the flight as may be necessary.

- 2.2 In the AIP and associated publications, the expression “summer period” will indicate that part of the year in which “daylight saving time” is in force. The other part of the year will be named the “winter period”. Daylight saving time in Malta is UTC plus 2 hours. The “summer period” will be introduced every year on the last Sunday in March at 0100 UTC and it will cease on the last Sunday in October at 0100 UTC. Times applicable during the “summer period” are given in brackets. Local time in Malta is UTC plus 1 hour.

**3. Horizontal reference system****3.1 Name/designation of datum**

- 3.1.1 Except where otherwise indicated by an asterisk (\*), all published geographical co-ordinates indicating latitude and longitude are expressed in terms of the World Geodetic System — 1984 (WGS-84) geodetic reference datum.

**3.2 Area of application**

- 3.2.1 The area of application for the published geographical co-ordinates coincides with the area of responsibility of the Aeronautical Information Service, i.e. the territory of Malta as well as the airspace over the high seas encompassed by the Malta FIR/UIR and those portions inside Rome FIR/UIR where the provision of ATC service has been delegated to Malta in accordance with a co-ordination agreement between Rome ACC and Malta ACC.

**3.3 Use of asterisk to identify published geographical co-ordinates**

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

**4. Vertical reference system**

NIL

**5. Aircraft nationality and registration marks**

- 5.1 The nationality mark for aircraft registered in Malta is 9H. The nationality mark is followed by a hyphen and a registration mark consisting of 3 letters, e.g. 9H-AAA.

**6. Public holidays**

<b><i>Name</i></b>	<b><i>Date/Day</i></b>
New Year's Day	1 January
St. Paul's Shipwreck	10 February
St. Joseph	19 March
Freedom Day	31 March
Good Friday	Friday before Easter
Workers' Day	1 May
Sette Giugno	7 June
St. Peter and St. Paul	29 June
The Assumption	15 August
Our Lady of Victories	8 September
Independence Day	21 September
Immaculate Conception	8 December
Republic Day	13 December
Christmas Day	25 December



**GEN 2.2 ABBREVIATIONS USED IN AIS PUBLICATIONS****1. FRA glossary of terms**

Aeronautical Data	A representation of aeronautical facts, concepts or instructions in a formalized manner suitable for communication, interpretation or processing.
Aeronautical Information	Information resulting from the assembly, analysis and formatting of aeronautical data.
Aeronautical Information Publication (AIP)	A publication issued by or with the authority of a State and containing aeronautical information of a lasting character essential to air navigation.
Area navigation route	An ATS route established for the use of aircraft capable of employing area navigation.
ATS route	<p>A specified route designed for channelling the flow of traffic as necessary for the provision of air traffic services.</p> <p><i>Note 1: The term “ATS route” is used to mean variously, airway, advisory route, controlled or uncontrolled route, arrival or departure route, etc.</i></p> <p><i>Note 2: An ATS route is defined by route specifications which include an ATS route designator, the track to or from significant points (waypoints), distance between significant points, reporting requirements and, as determined by the appropriate ATS authority, the lowest safe altitude.</i></p>
DCT	<p>Direct (in relation to flight plan clearances and type of approach)</p> <p>Decoded abbreviation/indicator DCT (Direct) or Encoded abbreviation/indicator Direct (DCT) should be used only:</p> <ul style="list-style-type: none"><li>• for flight planning purposes when submitting FPL;</li><li>• when executing a specified type of approach.</li></ul>
Free Route Airspace (FRA)	A specified airspace within which users may freely plan a route between a defined entry point and a defined exit point, with the possibility to route via intermediate (published or unpublished) way points, without reference to the ATS route network, subject to airspace availability. Within this airspace, flights remain subject to air traffic control.
FRA Arrival Connecting Point (A)	A published Significant Point to which FRA operations are allowed for arriving traffic to specific aerodromes. The FRA relevance of such points is included in ENR 4.1/4.4 columns as (A). Indications on their use for arrivals to specific aerodromes shall be notified via the RAD.
FRA Departure Connecting Point (D)	A published Significant Point from which FRA operations are allowed for departing traffic from specific aerodromes. The FRA relevance of such points is included in ENR 4.1/4.4 columns as (D). Indications on their use for departures from specific aerodromes shall be notified via the RAD.
FRA Horizontal Entry Point (E)	A published Significant Point on the horizontal boundary of the Free Route Airspace from which FRA operations are allowed. The FRA relevance of such points is included in ENR 4.1/4.4 columns as (E). If this point has specific conditions of utilization, this shall be described in the RAD.
FRA Horizontal Exit Point (X)	A published Significant Point on the horizontal boundary of the Free Route Airspace from which FRA operations are allowed. The FRA relevance of such points is included in ENR 4.1/4.4 columns as (X). If this point has specific conditions of utilization, this shall be described in the RAD.
FRA Intermediate Point (I)	A published Significant Point or unpublished point, defined by geographical coordinates or by bearing and distance via which FRA operations are allowed. If published, the FRA relevance of such points is included in ENR 4.1/4.4 columns as (I). If this point has specific conditions of utilization, this shall be described in the RAD.

NOTAM	A notice containing information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations.
Route Availability Document (RAD)	A common reference document containing the policies, procedures and description for route and traffic orientation. It also includes route network and free route airspace utilization rules and availability.
Special Areas (SA)	Refers to airspace of defined dimensions for the exclusive use of specific users. These are special designed areas within which both civil and military activities could take place, including CBA, TRA, TSA, D, R, P and any specially activated areas.
Significant Point	<p>A specified geographical location used in defining an ATS route or the flight plan of an aircraft and for other navigational and ATS purposes.</p> <p><i>Note: There are three categories of significant points: ground-based navigation aid, intersection and waypoint. In the context of this definition, intersection is a significant point expressed as radials, bearings and/or distances from ground based navigation aids.</i></p>
Waypoint	<p>A specified geographical location used to define an area navigation route or the flight path of an aircraft employing area navigation. Waypoints are identified as either:</p> <ul style="list-style-type: none"><li>• Fly-by waypoint: A waypoint which requires turn anticipation to allow tangential interception of the next segment of a route or procedure, or</li><li>• Flyover waypoint: A waypoint at which a turn is initiated in order to join the next segment of a route or procedure.</li></ul>

Abbreviations marked by an asterisk (\*) are either different from or not contained in ICAO Doc 8400.

Civil Aviation Directorate — Transport Malta AIRAC AMDT 023/2018

EAT	Expected approach time	HF	High frequency (3,000 to 30,000 KHz)
EET	Estimated elapsed time		
ELEV	Elevation	HF	Holding fix
EM	Emission	HGT	Height or height above
EMERG	Emergency	HJ	Sunrise to sunset
ENR	En-route	HLP	Heliport
EOBT	Estimated off-block time	HLS	Helicopter landing site
EST	Estimate or estimated or estimation ( <i>message type designator</i> )	HN	Sunset to sunrise
		HO	Service available to meet operational requirements
ETA	Estimated time of arrival or estimating arrival	HOL	Holiday
ETD	Estimated time of departure or estimating departure	HPA	Hectopascal
		HR	Hours
ETO	Estimated time over significant point	HS	Service available during hours of scheduled operations

HX	No specific working hours
HUM	Humanitarian
HZ	Hertz

## F

F	Fixed
FAC	Facilities
FAF	Final approach fix
FAP	Final approach point
FATO	Final approach and take-off area
FAX	Facsimile transmission
FCST	Forecast
FCT	Friction coefficient
FEB	February
FIC	Flight information centre
FIR	Flight information region
FIS	Flight information service
FL	Flight level
FLG	Flashing
FLT	Flight
FMU	Flow management unit
FNA	Final approach
FPL	Flight plan
FPM	Feet per minute
*FRA	Free route airspace
FREQ	Frequency
FRI	Friday
FRNG	Firing
FT	Feet ( <i>dimensional unit</i> )

## I

IAC	Instrument approach chart
IAF	Initial approach fix
IAS	Indicated airspeed
IBN	Identification beacon
ICAO	International Civil Aviation Organization
ID	Identifier or identity
IDENT	Identification
IFR	Instrument flight rules
ILS	Instrument landing system
IMC	Instrument meteorological conditions
INCERFA	Uncertainty phase
INTL	International

## J

JAN	January
JUL	July
JUN	June

## K

KG	Kilograms
KHZ	Kilohertz
KM	Kilometres
KMH	Kilometres per hour
KT	Knots
KW	Kilowatts

## L

LAT	Latitude
LDA	Landing distance available
LDI	Landing direction indicator
LF	Low frequency (30 to 300 KHz)
LGT	Light or lighting
LGTD	Lighted

## G

G	Green
GA	General aviation
*GAT	General air traffic
GEN	General
GEO	Geographic or true
GND	Ground
GP	Glide path

## H

H24	Continuous day and night service
HBN	Hazard beacon
HDG	Heading
HEL	Helicopter

Civil Aviation Directorate — Transport Malta AIRAC AMDT 023/2018

AIRAC AMDT 019/2018 Civil Aviation Directorate — Transport Malta

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**W**

W	West <i>or</i> western longitude
W	White
WAC	World aeronautical chart - (ICAO 1:1,000,000)
WBAR	Wingbar lights
WDI	Wind direction indicator
WED	Wednesday
WEF	With effect from <i>or</i> effective from
WID	Width
WIE	With immediate effect <i>or</i> effective immediately
*WIP	Work in progress

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**X**

XBAR	Crossbar (approach lighting)
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**Y**

Y	Yellow
YCZ	Yellow caution zone
YR	Your

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**Z**

Z	Co-ordinated Universal Time (in meteorological messages)
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## GEN 2.3 CHART SYMBOLS

### 1. Aerodromes

#### 1.1 Charts other than approach charts

Heliport	
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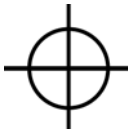
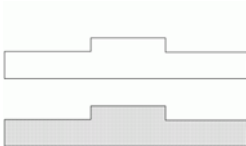



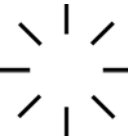



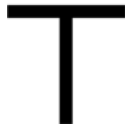
#### 1.2 Approach charts

The aerodrome on which the procedure is based	
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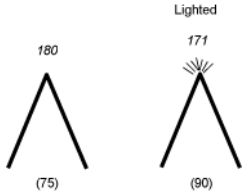
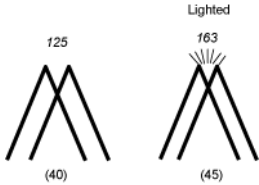
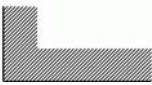
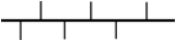


#### 1.3 Aerodrome charts

Hard surface runway	
Stopway	

2. Aerodrome installations and lights

Aerodrome reference point	
Taxiways and parking areas	
Control tower	Control Tower 
Point light	
Barrette	
Obstacle light	
Aeronautical ground light	
Wind direction indicator (lighted)	
Wind direction indicator (unlighted)	
Landing direction indicator (unlighted)	

## 3. Miscellaneous

Highest elevation on chart	
Obstacles	
Group obstacles <i>Note: Numerals in italics indicate elevation of top of obstacle above sea level. Upright numerals in parentheses indicate height above specified datum.</i>	
Restricted airspace (prohibited, restricted or danger areas)	
Common boundary between two FIRs	
Transmission line or overhead cable	
Isogonal	

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**GEN 2.4    LOCATION INDICATORS**

DECODE	
Identifier	Name
LMMG	GOZO HELIPORT
LMML	LUQA
LMMM	MALTA ACC/FIR/UIR

ENCODE	
Name	Identifier
GOZO HELIPORT	LMMG
LUQA	LMML
MALTA ACC/FIR/UIR	LMMM

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**GEN 2.5 LIST OF RADIO NAVIGATION AIDS**

ID	Station Name	Facility	Purpose
GZO	Gozo	VOR/DME	AE
LM	Luqa	ILS RWY 31	A
LQ	Luqa	ILS RWY 13	A
LQ	Luqa	ILS DME RWY 13	A
LM	Malta	ILS DME RWY 31	A
MLT	Malta	NDB	A
(A) - Aerodrome aid			
(AE) - Aerodrome and en-route aid			

Maintenance Schedule for Radio Navigation Aids	
GZO VOR/DME	Every second Tuesday of the month between 09:00 and 16:00 (LT)
MLT NDB	Every Saturday between 0900 and 1200 (LT)
MALTA DME (LM)	Every Tuesday from 00:00 to 06:00 (LT)
LUQA DME (LQ)	Every Wednesday from 00:00 to 06:00 (LT)
ILS not in use	Every Wednesday from 07:30 to 10:00 (LT)
ILS in use	Every Thursday from 00:00 to 06:00 (LT)
DDMs	Every Friday from 00:00 to 06:00 (LT)

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**GEN 2.6 CONVERSION TABLES**

NM to KM		KM to NM		FT to M		M to FT	
1 NM = 1.852 KM		1 KM = 0.54 NM		1 FT = 0.3048 M		1 M = 3.281 FT	
NM	KM	KM	NM	FT	M	M	FT
0.1	0.185	0.1	0.05	1	0.305	1	3.28
0.2	0.370	0.2	0.11	2	0.610	2	6.56
0.3	0.556	0.3	0.16	3	0.914	3	9.84
0.4	0.741	0.4	0.22	4	1.219	4	13.12
0.5	0.926	0.5	0.27	5	1.524	5	16.40
0.6	1.111	0.6	0.32	6	1.829	6	19.69
0.7	1.296	0.7	0.38	7	2.134	7	22.97
0.8	1.482	0.8	0.43	8	2.438	8	26.25
0.9	1.667	0.9	0.49	9	2.743	9	29.53
1	1.852	1	0.54	10	3.048	10	32.81
2	3.704	2	1.08	20	6.096	20	65.62
3	5.556	3	1.62	30	9.144	30	98.43
4	7.408	4	2.16	40	12.192	40	131.23
5	9.260	5	2.70	50	15.240	50	164.04
6	11.112	6	3.24	60	18.288	60	196.85
7	12.964	7	3.78	70	21.336	70	229.66
8	14.816	8	4.32	80	24.384	80	262.47
9	16.668	9	4.86	90	27.432	90	295.28
10	18.520	10	5.40	100	30.480	100	328.08
20	37.040	20	10.80	200	60.960	200	656.17
30	55.560	30	16.20	300	91.440	300	984.25
40	74.080	40	21.60	400	121.920	400	1312.34
50	92.600	50	27.00	500	152.400	500	1640.42
60	111.120	60	32.40	600	182.880	600	1968.50
70	129.640	70	37.80	700	213.360	700	2296.59
80	148.160	80	43.20	800	243.840	800	2624.67
90	166.680	90	48.60	900	274.320	900	2952.76
100	185.200	100	54.00	1000	304.800	1000	3280.84
200	370.400	200	107.99	2000	609.600	2000	6561.68
300	555.600	300	161.99	3000	914.400	3000	9842.52
400	740.800	400	215.98	4000	1219.200	4000	13123.36
500	926.000	500	269.98	5000	1524.000	5000	16404.20
				6000	1828.800		
				7000	2133.600		
				8000	2438.400		
				9000	2743.200		
				10000	3048.000		

From decimal minutes of an arc to seconds of an arc							
MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC
0.01	0.6	0.26	15.6	0.51	30.6	0.76	45.6
0.02	1.2	0.27	16.2	0.52	31.2	0.77	46.2
0.03	1.8	0.28	16.8	0.53	31.8	0.78	46.8
0.04	2.4	0.29	17.4	0.54	32.4	0.79	47.4
0.05	3.0	0.30	18.0	0.55	33.0	0.80	48.0
0.06	3.6	0.31	18.6	0.56	33.6	0.81	48.6
0.07	4.2	0.32	19.2	0.57	34.2	0.82	49.2
0.08	4.8	0.33	19.8	0.58	34.8	0.83	49.8
0.09	5.4	0.34	20.4	0.59	35.4	0.84	50.4
0.10	6.0	0.35	21.0	0.60	36.0	0.85	51.0
0.11	6.6	0.36	21.6	0.61	36.6	0.86	51.6
0.12	7.2	0.37	22.2	0.62	37.2	0.87	52.2
0.13	7.8	0.38	22.8	0.63	37.8	0.88	52.8
0.14	8.4	0.39	23.4	0.64	38.4	0.89	53.4
0.15	9.0	0.40	24.0	0.65	39.0	0.90	54.0
0.16	9.6	0.41	24.6	0.66	39.6	0.91	54.6
0.17	10.2	0.42	25.2	0.67	40.2	0.92	55.2
0.18	10.8	0.43	25.8	0.68	40.8	0.93	55.8
0.19	11.4	0.44	26.4	0.69	41.4	0.94	56.4
0.20	12.0	0.45	27.0	0.70	42.0	0.95	57.0
0.21	12.6	0.46	27.6	0.71	42.6	0.96	57.6
0.22	13.2	0.47	28.2	0.72	43.2	0.97	58.2
0.23	13.8	0.48	28.8	0.73	43.8	0.98	58.8
0.24	14.4	0.49	29.4	0.74	44.4	0.99	59.4
0.25	15.0	0.50	30.0	0.75	45.0		

From seconds of an arc to decimal minutes of an arc							
SEC	MIN	SEC	MIN	SEC	MIN	SEC	MIN
1	0.02	16	0.27	31	0.52	46	0.77
2	0.03	17	0.28	32	0.53	47	0.78
3	0.05	18	0.30	33	0.55	48	0.80
4	0.07	19	0.32	34	0.57	49	0.82
5	0.08	20	0.33	35	0.58	50	0.83
6	0.10	21	0.35	36	0.60	51	0.85
7	0.12	22	0.37	37	0.62	52	0.87
8	0.13	23	0.38	38	0.63	53	0.88
9	0.15	24	0.40	39	0.65	54	0.90
10	0.17	25	0.42	40	0.67	55	0.92
11	0.18	26	0.43	41	0.68	56	0.93
12	0.20	27	0.45	42	0.70	57	0.95
13	0.22	28	0.47	43	0.72	58	0.97
14	0.23	29	0.48	44	0.73	59	0.98
15	0.25	30	0.50	45	0.75		

**GEN 2.7 SUNRISE/SUNSET TABLES**

The tables on the following pages have been reproduced from data supplied by the U.S. Naval Observatory.  
The times are in UTC for sunrise and sunset at Luqa (LMML) for the years 2021 to 2023.

2021	LUQA/International LMML						35°51'27.15'N 014°28'38.78'E					
	Jan		Feb		Mar		Apr		May		Jun	
	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS
1	0612	1558	0604	1628	0534	1656	0450	1723	0411	1748	0347	1812
2	0612	1559	0603	1629	0533	1657	0449	1723	0410	1749	0347	1813
3	0613	1559	0602	1630	0531	1657	0448	1724	0409	1749	0346	1813
4	0613	1600	0601	1631	0530	1658	0446	1725	0408	1750	0346	1814
5	0613	1601	0600	1632	0529	1659	0445	1726	0407	1751	0346	1814
6	0613	1602	0600	1633	0527	1700	0443	1727	0406	1752	0346	1815
7	0613	1603	0559	1634	0526	1701	0442	1728	0405	1753	0345	1816
8	0613	1604	0558	1635	0525	1702	0441	1728	0404	1754	0345	1816
9	0613	1604	0557	1636	0523	1703	0439	1729	0403	1754	0345	1817
10	0613	1605	0556	1637	0522	1704	0438	1730	0402	1755	0345	1817
11	0613	1606	0555	1638	0521	1705	0436	1731	0401	1756	0345	1818
12	0613	1607	0554	1639	0519	1706	0435	1732	0400	1757	0345	1818
13	0612	1608	0553	1640	0518	1706	0434	1733	0359	1758	0345	1819
14	0612	1609	0552	1641	0516	1707	0432	1733	0358	1759	0345	1819
15	0612	1610	0551	1642	0515	1708	0431	1734	0357	1759	0345	1819
16	0612	1611	0550	1643	0513	1709	0430	1735	0357	1800	0345	1820
17	0612	1612	0549	1644	0512	1710	0428	1736	0356	1801	0345	1820
18	0611	1613	0547	1645	0511	1711	0427	1737	0355	1802	0345	1820
19	0611	1614	0546	1646	0509	1712	0426	1738	0354	1803	0345	1821
20	0610	1615	0545	1647	0508	1712	0424	1738	0354	1803	0345	1821
21	0610	1616	0544	1648	0506	1713	0423	1739	0353	1804	0345	1821
22	0610	1617	0543	1649	0505	1714	0422	1740	0352	1805	0346	1822
23	0609	1618	0542	1650	0503	1715	0421	1741	0352	1806	0346	1822
24	0609	1619	0540	1651	0502	1716	0419	1742	0351	1806	0346	1822
25	0608	1620	0539	1652	0501	1717	0418	1743	0350	1807	0346	1822
26	0608	1621	0538	1653	0459	1717	0417	1743	0350	1808	0347	1822
27	0607	1622	0537	1654	0458	1718	0416	1744	0349	1809	0347	1822
28	0606	1623	0535	1655	0456	1719	0415	1745	0349	1809	0347	1822
29	0606	1624			0455	1720	0413	1746	0348	1810	0348	1822
30	0605	1625			0453	1721	0412	1747	0348	1811	0348	1822
31	0604	1626			0452	1722			0348	1811		

2021	LUQA/International LMML						35°51'27.15"N 014°28'38.78"E					
	Jul		Aug		Sep		Oct		Nov		Dec	
	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS
1	0348	1822	0408	1808	0432	1731	0456	1648	0523	1608	0552	1548
2	0349	1822	0409	1807	0433	1730	0456	1646	0524	1607	0553	1548
3	0349	1822	0410	1806	0434	1729	0457	1645	0525	1606	0554	1548
4	0350	1822	0410	1805	0435	1727	0458	1643	0526	1605	0555	1548
5	0350	1822	0411	1804	0436	1726	0459	1642	0527	1604	0556	1548
6	0351	1822	0412	1803	0436	1724	0500	1641	0528	1603	0557	1548
7	0351	1822	0413	1802	0437	1723	0501	1639	0529	1602	0558	1548
8	0352	1821	0414	1801	0438	1722	0501	1638	0530	1601	0559	1548
9	0352	1821	0414	1800	0439	1720	0502	1636	0531	1600	0559	1548
10	0353	1821	0415	1759	0439	1719	0503	1635	0532	1559	0600	1548
11	0353	1821	0416	1758	0440	1717	0504	1634	0533	1558	0601	1548
12	0354	1820	0417	1757	0441	1716	0505	1632	0534	1558	0602	1548
13	0355	1820	0418	1756	0442	1714	0506	1631	0535	1557	0602	1548
14	0355	1820	0418	1755	0442	1713	0506	1629	0536	1556	0603	1549
15	0356	1819	0419	1753	0443	1711	0507	1628	0537	1555	0604	1549
16	0356	1819	0420	1752	0444	1710	0508	1627	0538	1555	0605	1549
17	0357	1818	0421	1751	0445	1708	0509	1625	0539	1554	0605	1549
18	0358	1818	0422	1750	0445	1707	0510	1624	0540	1553	0606	1550
19	0359	1817	0422	1749	0446	1705	0511	1623	0541	1553	0607	1550
20	0359	1817	0423	1747	0447	1704	0512	1622	0542	1552	0607	1551
21	0400	1816	0424	1746	0448	1702	0513	1620	0543	1552	0608	1551
22	0401	1815	0425	1745	0449	1701	0513	1619	0544	1551	0608	1551
23	0401	1815	0425	1744	0449	1659	0514	1618	0545	1551	0609	1552
24	0402	1814	0426	1742	0450	1658	0515	1617	0546	1550	0609	1552
25	0403	1813	0427	1741	0451	1656	0516	1616	0547	1550	0610	1553
26	0404	1813	0428	1740	0452	1655	0517	1614	0548	1550	0610	1554
27	0404	1812	0429	1738	0452	1654	0518	1613	0549	1549	0610	1554
28	0405	1811	0429	1737	0453	1652	0519	1612	0550	1549	0611	1555
29	0406	1810	0430	1736	0454	1651	0520	1611	0551	1549	0611	1555
30	0407	1810	0431	1734	0455	1649	0521	1610	0551	1548	0611	1556
31	0407	1809	0432	1733			0522	1609			0612	1557

2022	LUQA/International LMML						35°51'27.15'N 014°28'38.78'E					
	Jan		Feb		Mar		Apr		May		Jun	
	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS
1	0612	1558	0603	1627	0534	1655	0450	1722	0411	1747	0347	1812
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3	0612	1559	0602	1629	0531	1657	0447	1724	0409	1749	0346	1813
4	0612	1600	0601	1631	0530	1658	0446	1725	0408	1750	0346	1813
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7	0612	1603	0558	1634	0526	1701	0442	1727	0405	1752	0345	1815
8	0612	1603	0557	1635	0524	1702	0440	1728	0404	1753	0345	1816
9	0612	1604	0556	1636	0523	1703	0439	1729	0403	1754	0345	1816
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13	0612	1608	0552	1640	0517	1706	0433	1732	0359	1757	0345	1818
14	0612	1609	0551	1641	0516	1707	0432	1733	0358	1758	0345	1819
15	0612	1610	0550	1642	0515	1708	0431	1734	0357	1759	0345	1819
16	0611	1611	0549	1643	0513	1709	0429	1735	0357	1800	0345	1819
17	0611	1612	0548	1644	0512	1710	0428	1736	0356	1801	0345	1820
18	0611	1613	0547	1645	0510	1710	0427	1736	0355	1801	0345	1820
19	0610	1614	0546	1646	0509	1711	0425	1737	0354	1802	0345	1820
20	0610	1615	0545	1647	0507	1712	0424	1738	0354	1803	0345	1821
21	0610	1616	0544	1648	0506	1713	0423	1739	0353	1804	0345	1821
22	0609	1617	0542	1649	0505	1714	0422	1740	0352	1804	0345	1821
23	0609	1618	0541	1650	0503	1715	0420	1741	0352	1805	0346	1821
24	0608	1619	0540	1651	0502	1716	0419	1741	0351	1806	0346	1821
25	0608	1620	0539	1652	0500	1716	0418	1742	0350	1807	0346	1822
26	0607	1621	0538	1653	0459	1717	0417	1743	0350	1807	0346	1822
27	0607	1622	0536	1653	0457	1718	0416	1744	0349	1808	0347	1822
28	0606	1623	0535	1654	0456	1719	0414	1745	0349	1809	0347	1822
29	0605	1624			0455	1720	0413	1746	0348	1810	0347	1822
30	0605	1625			0453	1721	0412	1746	0348	1810	0348	1822
31	0604	1626			0452	1721			0347	1811		

2022	LUQA/International LMML						35°51'27.15"N 014°28'38.78"E					
	Jul		Aug		Sep		Oct		Nov		Dec	
	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS
1	0348	1822	0408	1807	0432	1731	0455	1647	0522	1608	0552	1548
2	0349	1822	0409	1807	0433	1730	0456	1646	0523	1607	0553	1548
3	0349	1822	0410	1806	0434	1728	0457	1645	0524	1606	0554	1548
4	0350	1822	0410	1805	0435	1727	0458	1643	0525	1605	0555	1548
5	0350	1822	0411	1804	0435	1726	0459	1642	0526	1604	0556	1548
6	0351	1821	0412	1803	0436	1724	0459	1640	0527	1603	0556	1548
7	0351	1821	0413	1802	0437	1723	0500	1639	0528	1602	0557	1548
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9	0352	1821	0414	1800	0438	1720	0502	1636	0530	1600	0559	1548
10	0353	1821	0415	1759	0439	1718	0503	1635	0531	1559	0600	1548
11	0353	1820	0416	1758	0440	1717	0504	1633	0532	1558	0601	1548
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13	0354	1820	0417	1755	0441	1714	0505	1631	0534	1557	0602	1548
14	0355	1819	0418	1754	0442	1712	0506	1629	0535	1556	0603	1548
15	0356	1819	0419	1753	0443	1711	0507	1628	0536	1555	0603	1549
16	0356	1818	0420	1752	0444	1710	0508	1627	0537	1555	0604	1549
17	0357	1818	0421	1751	0444	1708	0509	1625	0538	1554	0605	1549
18	0358	1817	0421	1749	0445	1707	0510	1624	0539	1553	0605	1550
19	0358	1817	0422	1748	0446	1705	0510	1623	0540	1553	0606	1550
20	0359	1816	0423	1747	0447	1704	0511	1621	0541	1552	0607	1550
21	0400	1816	0424	1746	0448	1702	0512	1620	0542	1552	0607	1551
22	0401	1815	0425	1745	0448	1701	0513	1619	0543	1551	0608	1551
23	0401	1814	0425	1743	0449	1659	0514	1618	0544	1551	0608	1552
24	0402	1814	0426	1742	0450	1658	0515	1617	0545	1550	0609	1552
25	0403	1813	0427	1741	0451	1656	0516	1615	0546	1550	0609	1553
26	0403	1812	0428	1739	0451	1655	0517	1614	0547	1550	0610	1553
27	0404	1812	0428	1738	0452	1653	0518	1613	0548	1549	0610	1554
28	0405	1811	0429	1737	0453	1652	0519	1612	0549	1549	0610	1555
29	0406	1810	0430	1735	0454	1650	0520	1611	0550	1549	0611	1555
30	0406	1809	0431	1734	0455	1649	0521	1610	0551	1548	0611	1556
31	0407	1808	0431	1733			0522	1609			0611	1557

2023	LUQA/International LMML						35°51'27.15"N 014°28'38.78"E					
	Jan		Feb		Mar		Apr		May		Jun	
	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS
1	0612	1558	0603	1627	0534	1655	0450	1722	0411	1747	0347	1812
2	0612	1559	0602	1628	0532	1656	0449	1723	0410	1748	0347	1812
3	0612	1559	0602	1629	0531	1657	0447	1724	0409	1749	0346	1813
4	0612	1600	0601	1631	0530	1658	0446	1725	0408	1750	0346	1813
5	0612	1601	0600	1632	0528	1659	0445	1726	0407	1751	0346	1814
6	0612	1602	0559	1633	0527	1700	0443	1726	0406	1752	0346	1815
7	0612	1603	0558	1634	0526	1701	0442	1727	0405	1752	0345	1815
8	0612	1603	0557	1635	0524	1702	0440	1728	0404	1753	0345	1816
9	0612	1604	0556	1636	0523	1703	0439	1729	0403	1754	0345	1816
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11	0612	1606	0555	1638	0520	1704	0436	1731	0401	1756	0345	1817
12	0612	1607	0554	1639	0519	1705	0435	1731	0400	1757	0345	1818
13	0612	1608	0553	1640	0517	1706	0433	1732	0359	1757	0345	1818
14	0612	1609	0551	1641	0516	1707	0432	1733	0358	1758	0345	1819
15	0612	1610	0550	1642	0515	1708	0431	1734	0357	1759	0345	1819
16	0611	1611	0549	1643	0513	1709	0429	1735	0357	1800	0345	1819
17	0611	1612	0548	1644	0512	1710	0428	1736	0356	1801	0345	1820
18	0611	1613	0547	1645	0510	1710	0427	1736	0355	1801	0345	1820
19	0610	1614	0546	1646	0509	1711	0425	1737	0354	1802	0345	1820
20	0610	1615	0545	1647	0507	1712	0424	1738	0354	1803	0345	1821
21	0610	1616	0544	1648	0506	1713	0423	1739	0353	1804	0345	1821
22	0609	1617	0542	1649	0505	1714	0422	1740	0352	1804	0345	1821
23	0609	1618	0541	1650	0503	1715	0420	1741	0352	1805	0346	1821
24	0608	1619	0540	1651	0502	1716	0419	1741	0351	1806	0346	1821
25	0608	1620	0539	1652	0500	1716	0418	1742	0350	1807	0346	1822
26	0607	1621	0538	1653	0459	1717	0417	1743	0350	1807	0346	1822
27	0607	1622	0536	1653	0457	1718	0416	1744	0349	1808	0347	1822
28	0606	1623	0535	1654	0456	1719	0414	1745	0349	1809	0347	1822
29	0605	1624			0455	1720	0413	1746	0348	1810	0347	1822
30	0605	1625			0453	1721	0412	1746	0348	1810	0348	1822
31	0604	1626			0452	1721			0347	1811		

2023	LUQA/International LMML						35°51'27.15"N 014°28'38.78"E					
	Jul		Aug		Sep		Oct		Nov		Dec	
	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS	SR	SS
1	0348	1822	0408	1807	0432	1731	0455	1647	0522	1608	0552	1548
2	0349	1822	0409	1807	0433	1730	0456	1646	0523	1607	0553	1548
3	0349	1822	0410	1806	0434	1728	0457	1645	0524	1606	0554	1548
4	0350	1822	0410	1805	0435	1727	0458	1643	0525	1605	0555	1548
5	0350	1822	0411	1804	0435	1726	0459	1642	0526	1604	0556	1548
6	0351	1821	0412	1803	0436	1724	0459	1640	0527	1603	0556	1548
7	0351	1821	0413	1802	0437	1723	0500	1639	0528	1602	0557	1548
8	0352	1821	0413	1801	0438	1721	0501	1637	0529	1601	0558	1548
9	0352	1821	0414	1800	0438	1720	0502	1636	0530	1600	0559	1548
10	0353	1821	0415	1759	0439	1718	0503	1635	0531	1559	0600	1548
11	0353	1820	0416	1758	0440	1717	0504	1633	0532	1558	0601	1548
12	0354	1820	0417	1756	0441	1715	0504	1632	0533	1557	0601	1548
13	0354	1820	0417	1755	0441	1714	0505	1631	0534	1557	0602	1548
14	0355	1819	0418	1754	0442	1712	0506	1629	0535	1556	0603	1548
15	0356	1819	0419	1753	0443	1711	0507	1628	0536	1555	0603	1549
16	0356	1818	0420	1752	0444	1710	0508	1627	0537	1555	0604	1549
17	0357	1818	0421	1751	0444	1708	0509	1625	0538	1554	0605	1549
18	0358	1817	0421	1749	0445	1707	0510	1624	0539	1553	0605	1550
19	0358	1817	0422	1748	0446	1705	0510	1623	0540	1553	0606	1550
20	0359	1816	0423	1747	0447	1704	0511	1621	0541	1552	0607	1550
21	0400	1816	0424	1746	0448	1702	0512	1620	0542	1552	0607	1551
22	0401	1815	0425	1745	0448	1701	0513	1619	0543	1551	0608	1551
23	0401	1814	0425	1743	0449	1659	0514	1618	0544	1551	0608	1552
24	0402	1814	0426	1742	0450	1658	0515	1617	0545	1550	0609	1552
25	0403	1813	0427	1741	0451	1656	0516	1615	0546	1550	0609	1553
26	0403	1812	0428	1739	0451	1655	0517	1614	0547	1550	0610	1553
27	0404	1812	0428	1738	0452	1653	0518	1613	0548	1549	0610	1554
28	0405	1811	0429	1737	0453	1652	0519	1612	0549	1549	0610	1555
29	0406	1810	0430	1735	0454	1650	0520	1611	0550	1549	0611	1555
30	0406	1809	0431	1734	0455	1649	0521	1610	0551	1548	0611	1556
31	0407	1808	0431	1733			0522	1609			0611	1557



## GEN 3 SERVICES

### GEN 3.1 AERONAUTICAL INFORMATION SERVICES

#### 1. Responsible service

1.1 The Aeronautical Information Service, which forms part of Malta Air Traffic Services Ltd. ensures the flow of information necessary for the safety, regularity and efficiency of international and national air navigation within the area of its responsibility as indicated under GEN 3.1.2 below. It consists of a Malta NOTAM Office (NOF) established at Luqa Airport inside the Terminal building, as indicated below.

1.2 No pre-flight information is available at Gozo Heliport.

#### 1.3 **Malta NOTAM office (NOF)**

1.3.1 The service is provided in accordance with the provisions contained in ICAO, Annex 15 — *Aeronautical Information Services*.

Malta NOTAM Office  
Malta Air Traffic Services Ltd.  
Gate No. 4  
Malta International Airport  
Triq tal-Isqof  
L-Imqabba MQB9057  
Malta  
Phone: (356) 22 35 55 43  
Fax: (356) 22 35 53 32  
AFS: LMMMYNYX  
Email: aim@maltats.com

1.4 Malta has fully migrated to the EAD. This service provides high-quality aeronautical information to the European aviation community and the national air traffic services providers.

1.5 All Maltese NOTAMs are being distributed by EAD and consequently, the originators of the NOTAM appear as EUECYIYN and no longer as LMMMYNYX. In the remote case of a complete failure of the EAD for a long period of time, Malta will temporary distribute NOTAMs through the AFTN using the originator LMMMYNYX and will then transfer the issued NOTAMs to EAD as soon as this service becomes available. Information and implementation details of the EAD can be found on the following websites:

EUROCONTROL EAD website -

URL: <http://www.eurocontrol.int/ead>

EAD operational website -

URL: <http://www.ead.eurocontrol.int>

#### 2. Area of responsibility

2.1 The Aeronautical Information Service is responsible for the collection and dissemination of information for the territory of Malta and for the airspace over the high seas encompassed by the Malta FIR/UIR.

#### 3. Aeronautical publications

3.1 The aeronautical information is provided in the form of the Integrated Aeronautical Information Package consisting of the following elements:

- a. Aeronautical Information Publication (AIP);
- b. Amendment service to the AIP (AIP AMDT);
- c. Supplement to the AIP (AIP SUP);
- d. NOTAM, and Pre-flight Information Bulletins (PIB);

- e. Aeronautical Information Circulars (AIC); and
- f. Checklists and summaries.

3.1.1 NOTAM and the related monthly checklists are issued via the Aeronautical Fixed Service (AFS) while PIB are made available at the Malta NOF. All other elements of the package are distributed by airmail.

### **3.2 *Aeronautical Information Publication***

3.2.1 The AIP is the basic aviation document intended primarily to satisfy international requirements for the exchange of permanent aeronautical information and long duration temporary changes essential for air navigation. It is available in the English language only as one volume printed in loose-leaf form and on CD-ROM, for use in international and domestic operations irrespective whether the flight is a commercial or a private one.

### **3.3 *Amendment service to the AIP (AIP AMDT)***

3.3.1 Amendments to the AIP are made by means of replacement sheets and consist of AIRAC AIP Amendment (AIRAC AIP AMDT), issued in accordance with the AIRAC system, incorporating operationally significant permanent changes into the AIP on the indicated AIRAC effective date. Although hand amendments may be issued from time to time, replacement sheets will be issued at the first opportunity. Every effort will be made to restrict hand amendments to a minimum.

3.3.2 A brief description of the subjects affected by the amendment is given on the AIP amendment cover sheet.

3.3.3 Each AIP page and each AIP replacement page introduced by an amendment, including the amendment cover sheet, is dated. The date consists of the day, month (by name) and year of the AIRAC effective date of the information. Each AIP amendment cover sheet includes references to the serial number of those elements, if any, of the Integrated Aeronautical Information Package which have been incorporated in the AIP by the amendment and are consequently cancelled.

3.3.4 Each AIRAC AIP AMDT is allocated a consecutive serial number.

3.3.5 A checklist of AIP pages containing page number and the effective date of the information is re-issued with each amendment and is an integral part of the AIP.

### **3.4 *Supplement to the AIP (AIP SUP)***

3.4.1 Temporary changes of long duration (three months and longer) and information of short duration which consists of extensive text and/or graphics, supplementing the permanent information contained in the AIP, are published as AIP Supplements (AIP SUP). Operationally significant temporary changes to the AIP are published in accordance with the AIRAC system and its established effective dates and are identified clearly by the acronym AIRAC AIP SUP.

3.4.2 AIP Supplements are separated by information subject (General — GEN, En-route — ENR and Aerodromes — AD) and are placed accordingly at the beginning of each AIP Part. Supplements are published on yellow paper in order to be conspicuous and to stand out from the rest of the AIP. Each AIP Supplement (regular or AIRAC) is allocated a serial number that is consecutive and based on the calendar year.

3.4.3 An AIP Supplement is kept in the AIP as long as all or some of its contents remain valid. The period of validity of the information contained in the AIP Supplement will normally be given in the supplement itself. Alternatively, NOTAM may be used to indicate changes to the period of validity or cancellation of the supplement.

3.4.4 The checklist of AIP Supplements currently in force is issued in the monthly printed plain-language summary of NOTAM in force.

**3.5 NOTAM and Pre-flight Information Bulletins (PIB)**

- 3.5.1 NOTAM contain information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential for personnel concerned with flight operations. The text of each NOTAM contains the information in the order shown in the ICAO NOTAM Format and is composed of the significations/uniform abbreviated phraseology assigned to the ICAO NOTAM Code complemented by ICAO abbreviations, indicators, identifiers, designators, call signs, frequencies, figures and plain language. NOTAM are originated and issued for Malta FIR and are distributed in one series only identified by the letter A.
- 3.5.2 Pre-flight Information Bulletins (PIB) which contain a recapitulation of current NOTAM and other information of urgent character for the operator/flight crews, are available at the NOF. The extent of the information contained in the PIB is indicated in section 5, hereunder.

**3.6 Aeronautical Information Circulars (AIC)**

- 3.6.1 Aeronautical Information Circulars (AIC) contain information on the long-term forecast of any major change in legislation, regulations, procedures or facilities; information of a purely explanatory or advisory nature liable to affect flight safety; and information or notification of an explanatory or advisory nature concerning technical, legislative or purely administrative matters. AICs are divided by subject and are issued in one series only, namely series A. Each AIC is numbered consecutively on a calendar year basis. The year, indicated by two digits, is a part of the serial number of the AIC. A checklist of AIC currently in force is issued as an AIC twice a year.

**3.7 Checklist and summary of NOTAM**

- 3.7.1 A checklist of valid NOTAM is issued monthly via AFS. The checklist is followed by a printed summary of NOTAM distributed by mail to all recipients of the Integrated Information Package. It contains a plain language (in English) presentation of the valid NOTAM and information about the number of the latest issued AIP AMDT, AIRAC AIP AMDT, AIP SUP, AIC as well as the numbers of the elements issued under the AIRAC that will become effective or, if none, the NIL AIRAC notification.

**3.8 Sale of publications**

- 3.8.1 The said publications can be obtained from the NOF. Purchase prices are as follows:

AIP Malta, including CD-ROM	€125.00
Annual subscription for AIP AMDT, AIP SUP, AIC and NOTAM	€50.00

**4. The AIRAC System**

- 4.1 In order to control and regulate the operationally significant changes requiring amendments to charts, route-manuals etc., such changes, whenever possible will be issued on predetermined dates according to the AIRAC SYSTEM. This type of information will be published as an AIRAC AIP AMDT or as an AIRAC AIP SUP. If an AIRAC AMDT or SUP cannot be produced due to lack of time, NOTAM clearly marked AIRAC will be issued. An AMDT or SUP will follow such NOTAM.
- 4.2 The table below indicates AIRAC effective dates for the period 2020-2023. AIRAC information will be issued so that the information will be received by the user not later than 28 days, and for major changes not later than 56 days, before the effective date. At AIRAC effective date, a trigger NOTAM will be issued giving a brief description of the contents, effective date and reference number of the AIRAC AIP AMDT or AIRAC AIP SUP that will become effective on that date. Trigger NOTAM will remain in force as a reminder in the PIB until the new checklist/summary is issued.
- 4.3 If no information was submitted for publication at the AIRAC date, a NIL notification will be issued by NOTAM not later than one AIRAC cycle before the AIRAC effective date concerned.

Table of AIRAC AMENDMENT DATES														
2020	02 JAN	30 JAN	27 FEB	26 MAR	23 APR	21 MAY	18 JUN	16 JUL	13 AUG	10 SEP	08 OCT	05 NOV	03 DEC	31 DEC
2021	28 JAN	25 FEB	25 MAR	22 APR	20 MAY	17 JUN	15 JUL	12 AUG	09 SEP	07 OCT	04 NOV	02 DEC	30 DEC	-
2022	27 JAN	24 FEB	24 MAR	21 APR	19 MAY	16 JUN	14 JUL	11 AUG	08 SEP	06 OCT	03 NOV	01 DEC	29 DEC	-
2023	26 JAN	23 FEB	23 MAR	20 APR	18 MAY	15 JUN	13 JUL	10 AUG	07 SEP	05 OCT	02 NOV	30 NOV	28 DEC	-

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**5. Pre-flight information service at aerodromes/heliports**

- 5.1 Pre-flight information is available on a 24-hour basis at the NOF at Luqa Airport. This office is located inside the Terminal building (Departures side). The information covers adjacent FIRs, all States in the ICAO EUR Region and some ICAO AFI and MID Region States. This information consists of AIPs and NOTAM.

**6. Electronic terrain and obstacle data**

NIL

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**GEN 3.2      AERONAUTICAL CHARTS**

**1.              Responsible service**

- 1.1              The Civil Aviation Directorate – Transport Malta is responsible for the publication of all charts that are part of the AIP. These charts are kept up to date by amendments to the AIP.
- 1.2              The charts are produced in accordance with the provisions contained in ICAO Annex 4 - *Aeronautical Charts*.
- 1.3              Information concerning the planning for or issuance of new maps and charts is notified by Aeronautical Information Circular. If incorrect information detected on published charts is of operational importance, it is corrected by NOTAM.

**2.              Maintenance of charts**

NIL

**3.              Purchase arrangements**

NIL

**4.              Aeronautical chart series available**

- 4.1              The following series of ICAO aeronautical charts are produced:
- a.              Aerodrome Chart — ICAO
  - b.              Aerodrome Ground Movement Chart — ICAO
  - c.              Aerodrome Obstacle Chart — ICAO Type A
  - d.              Aerodrome Obstacle Chart — ICAO Type B
  - e.              Aircraft Parking Chart — ICAO
  - f.              ATC Surveillance Minimum Altitude Chart — ICAO
  - g.              En-route Chart — ICAO
  - h.              Instrument Approach Chart — ICAO
  - i.              Precision Approach Terrain Chart — ICAO
  - j.              Standard Departure Chart – Instrument (SID) — ICAO
  - k.              Visual Approach Chart — ICAO

**5. List of aeronautical charts available**

5.1 The following ICAO charts are available as part of the AIP:

Title of series	Name	Date
Aerodrome Chart — ICAO	Luqa	03 DEC 2020
Aerodrome Ground Movement Chart — ICAO	Luqa	15 JUL 2021
Aerodrome Obstacle Chart — ICAO Type A	Luqa, RWY 23/05	15 JUL 2021
	Luqa, RWY 13/31	03 DEC 2020
Aerodrome Obstacle Chart — ICAO Type B	Luqa	15 JUL 2021
Aircraft Parking Chart — ICAO	Luqa, Apron 2	05 NOV 2020
	Luqa, Apron 3	05 NOV 2020
	Luqa, LTM Apron	23 APR 2020
	Luqa, Apron 5	05 NOV 2020
	Luqa, Apron 7	16 AUG 2018
	Luqa, Apron 8	30 JAN 2020
	Luqa, Apron 9	22 APR 2021
	Luqa, Safi Apron	23 APR 2020
ATC Surveillance Minimum Altitude Chart — ICAO	Luqa	08 NOV 2018
En-route Chart — ICAO	Malta FIR/UIR	30 JAN 2020
	Malta FIR (West Sector)	30 JAN 2020
	Malta FIR (East Sector)	30 JAN 2020
	Malta UIR (West Sector)	30 JAN 2020
	Malta UIR (East Sector)	30 JAN 2020
	FRA Malta	30 JAN 2020
Instrument Approach Chart — ICAO	Luqa, ILS DME RWY 13	30 JAN 2020
	Luqa, ILS DME RWY 31	30 JAN 2020
	Luqa, RNP RWY 05	30 JAN 2020
	Luqa, RNP RWY 13	30 JAN 2020
	Luqa, RNP RWY 23	30 JAN 2020
	Luqa, RNP RWY 31	30 JAN 2020
Precision Approach Terrain Chart — ICAO	Luqa, RWY 13	07 NOV 2019
	Luqa, RWY 31	07 NOV 2019
Standard Departure Chart - Instrument (SID) — ICAO	Luqa, RWY 05	30 JAN 2020
	Luqa, RWY 13	30 JAN 2020
	Luqa, RWY 23	30 JAN 2020
	Luqa, RWY 31	30 JAN 2020
Visual Approach Chart — ICAO	Luqa, RWY 31	25 APR 2019

**6. Index to the World Aeronautical Chart (WAC) — 1:1 000 000**

NIL

**7. Topographical charts**

NIL

**8. Corrections to charts not contained in the AIP**

NIL

## GEN 3.3 AIR TRAFFIC SERVICES

### 1. Responsible service

- 1.1 Malta Air Traffic Services Ltd. is responsible for the provision of air traffic services within the area indicated in section 2, below.

Chief Executive Officer  
Malta Air Traffic Services Ltd.  
Gate No. 4  
Malta International Airport  
Triq tal-Isqof  
L-Imqabba MQB9057  
Malta  
Phone: (356) 22 35 55 37  
Fax: (356) 21 22 15 89  
Email: ceo@maltats.com

- 1.2 The services are provided in accordance with the provisions contained in the applicable EU Regulations and ICAO documents.

- 1.3 Differences to these provisions are detailed in GEN 1.7.

### 2. Area of responsibility

- 2.1 Air traffic services are provided for the territory of Malta including its territorial waters as well as the airspace over the high seas within the Malta FIR/UIR.

- 2.2 Additionally, in accordance with a co-ordination agreement between Rome ACC and Malta ACC, air traffic services are provided under the delegated authority, in the Rome FIR/UIR. Details of such services are provided in ENR 2.

### 3. Types of services

- 3.1 The following types of services are provided:

- a. Flight Information Service (FIS) and Alerting Service (ALRS);
- b. Area Control (ACC); and
- c. Radar.

- 3.2 The following types of services are provided at Luqa aerodrome:

- a. Aerodrome Control (GMC);
- b. Aerodrome Control (AIR);
- c. Approach Control (APP); and
- d. Automatic Terminal Information Service (ATIS).

### 4. Co-ordination between the operator and ATS

- 4.1 Co-ordination between the operator and air traffic services is effected in accordance with SERA.7005, and paragraph 2.16 of Annex 11.

### 5. Minimum flight altitude

- 5.1 Published MSA / MVA contains temperature correction down to 0 degrees.

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**6. ATS unit addresses**

6.1 General correspondence and enquiries should be addressed to:

Malta Air Traffic Services Ltd.  
Gate No. 4  
Malta International Airport  
Triq tal-Isqof  
L-Imqabba MQB9057  
Malta  
Phone: (356) 22 35 53 40 (Administration office)  
Fax: (356) 22 35 54 45 (Administration office)  
Email: atsmalta@maltats.com

6.2 Enquiries regarding ATC operations should be addressed to the Chief Operations Officer on:

Phone: (356) 22 35 54 58  
Email: operations@maltats.com

6.3 Requests by users for reservation of airspace and training / test flights should be addressed to the Airspace Utilization and Coordination Cell on:

Email: airspace.cell@maltats.com

6.4 Notification by aircraft operators or their ground handling organisations of approved landing slots at LMML should be addressed to MATS Operations on:

Email: ops.planning@maltats.com

6.5 Enquires on ATC Safety, Quality and Security Management should be addressed to the Safety, Quality and Security Section on:

Phone: (356) 22 35 54 29  
Email: shsqsc@maltats.com



## GEN 3.4 COMMUNICATION SERVICES

### 1. Responsible service

- 1.1 Malta Air Traffic Services Ltd. is responsible for the provision of aeronautical telecommunication and air navigation facility services in Malta.

Chief Technical Officer  
Malta Air Traffic Services Ltd.  
Gate No. 4  
Malta International Airport  
Triq tal-Isqof  
L-Imqabba MQB9057  
Malta  
Phone: (356) 22 35 53 15  
Fax: (356) 21 24 91 82  
AFS: LMMLYFYX  
Email: jesmond.farrugia@maltats.com

- 1.2 The services are provided in accordance with the provisions contained in the following ICAO documents:

*Annex 10 — Aeronautical Telecommunications*

*Doc. 8400 — Procedures for Air Navigation Services - ICAO Abbreviations and Codes (PANS-ABC)*

*Doc. 8585 — Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services*

*Doc. 7030 — Regional Supplementary Procedures*

*Doc. 7910 — Location Indicators*

### 2. Area of responsibility

- 2.1 Communication services are provided for the entire Malta FIR/UIR. Arrangements for such services on a continuing basis, as well as enquiries, suggestions or complaints, should be referred to the above. The Director General (Civil Aviation) is responsible for the application of the regulations concerning the design, type and installations of aircraft radio stations.

### 3. Types of service

#### 3.1 Radio navigation services

- 3.1.1 The following types of radio aids to navigation are available:

- a. MF Non-directional Beacon (NDB);
- b. En-route Radar (PSR and MSSR);
- c. Terminal Area Radar (PSR and MSSR);
- d. Instrument Landing System (ILS);
- e. VHF Omnidirectional Radio Range (VOR); and
- f. Distance-Measuring Equipment (DME).

- 3.1.2 Details of the location of the radar stations are given in ENR 1.6 while details of the VOR, NDB and DME are listed in ENR 4.1. It must be noted that the co-ordinates listed refer to the transmitting antennae. Details of the ILS are given in AD 2-19.

### **3.2        *Mobile/Fixed service***

#### **3.2.1        *Mobile Service***

3.2.1.1        Facilities are provided to meet the requirements of Flight Information, Area Control, Approach Control, Aerodrome Control and Search and Rescue. Details of these facilities may be found in the relevant sections.

3.2.1.2        The aeronautical stations maintain a continuous watch (24 hours) on their stated frequencies, unless otherwise notified.

3.2.1.3        An aircraft should normally communicate with the Air Traffic Services unit serving the area in which it is flying. Aircraft should maintain continuous watch on the appropriate frequency and should not abandon watch, except in an emergency, without informing the Air Traffic Services unit. This unit should also be advised when the aircraft is about to change frequency.

3.2.1.4        After landing in Malta, an aircraft should maintain watch on the appropriate frequency until it has finished taxiing.

3.2.1.5        Radio transmissions should be limited to those necessary for the safe navigation of aircraft. Otherwise, radio traffic congestion caused by unnecessary transmissions may limit the value of ground services.

#### **3.2.2        *Fixed Service***

3.2.2.1        Facilities are provided for the exchange of messages between aeronautical land stations by radio or landline.

3.2.2.2        The messages to be transmitted over the Aeronautical Fixed Service (AFS) are accepted only if:

- a.        they satisfy the requirements of ICAO Annex 10, Vol. II, Chapter 3, 3.3;
- b.        they are prepared in the form specified in Annex 10; and
- c.        the text of an individual message does not exceed 1800 characters.

Note: If a message exceeds this amount, separate messages, with text not exceeding 1800 characters, shall be entered by the telecommunications office.

3.2.2.3        General aircraft operating agency messages are accepted for transmission only if such messages are in accordance with the above. Class "B" traffic from Malta is not acceptable for transmission over the Aeronautical Fixed Service.

### **3.3        *Broadcasting service***

3.3.1        Sub-area meteorological broadcasts (VOLMET) are available for use by aircraft in flight. Full details are given in GEN 3.5.

### **3.4        *Language used***

3.4.1        The English language is used in air/ground communications in Malta.

### **3.5        *Where detailed information can be obtained***

3.5.1        Details of the various facilities available for the en-route traffic are to be found in ENR 4.

3.5.2        Details of the facilities available at Luqa aerodrome are to be found in AD 2. In cases where a facility is serving both the en-route traffic and the aerodrome, details are given in both Part 2 (ENR) and Part 3 (AD).

## **4.        *Requirements and conditions***

4.1        The requirements and general conditions, under which the communication services are available for international use, as well as the requirements for the carriage of radio equipment, are contained in LN176/1990, The Air Navigation Order, 1990.

Figure 1. MALTA INTERNATIONAL COMMUNICATIONS TERMINAL CENTRE

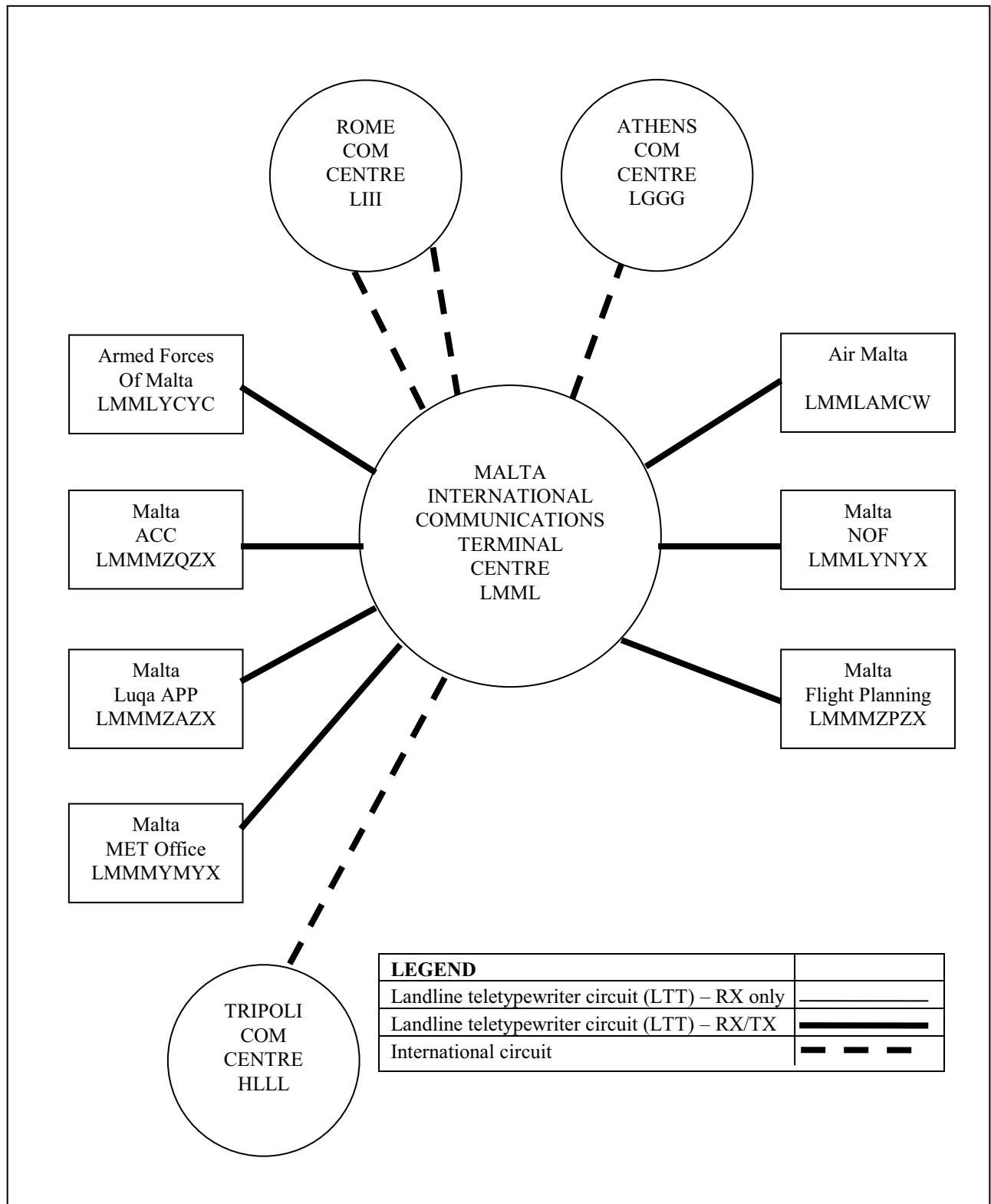
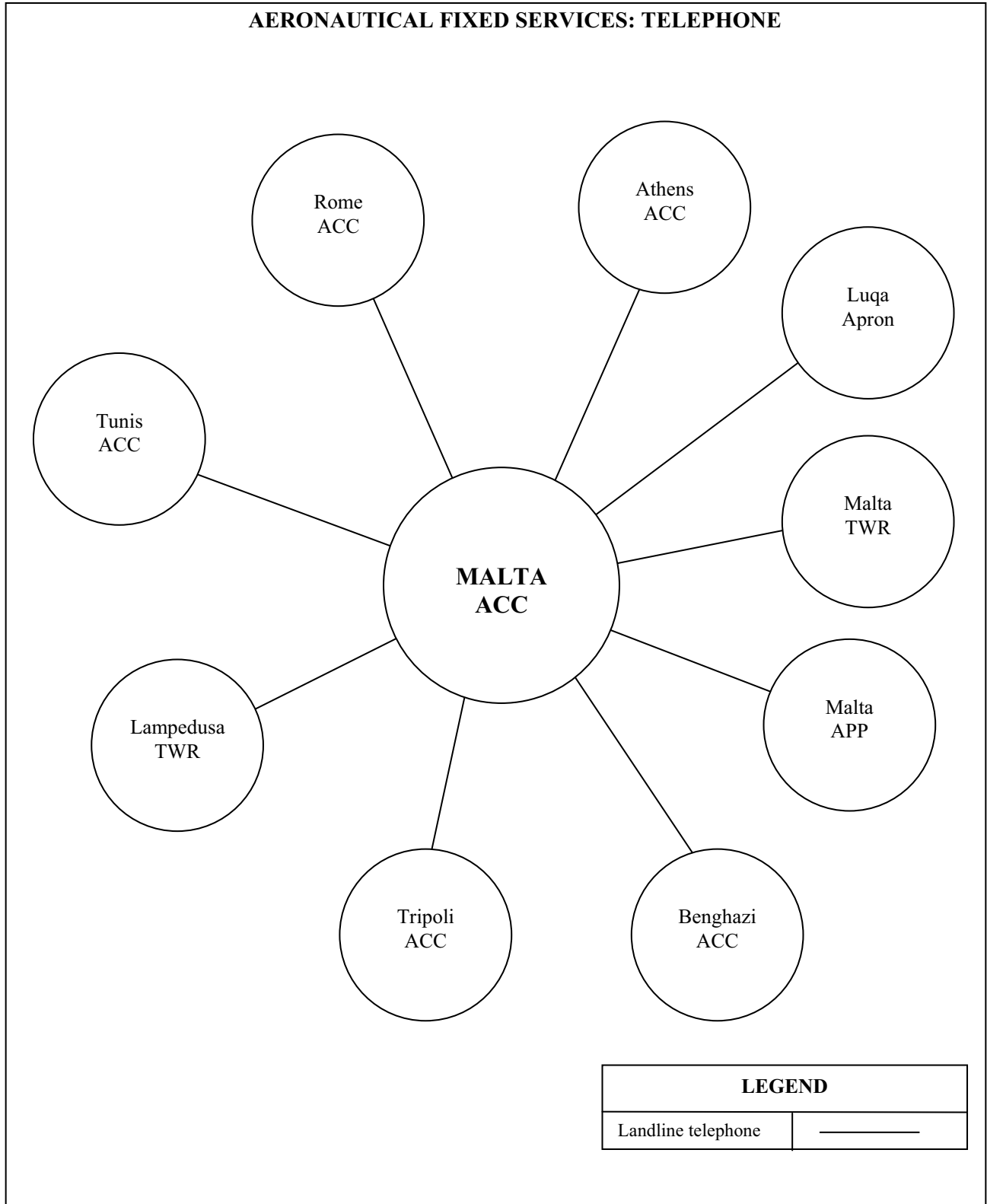


Figure 2. AERONAUTICAL FIXED SERVICES: TELEPHONE



**GEN 3.5 METEOROLOGICAL SERVICES****1. Responsible service**

1.1 The Meteorological Office of Malta International Airport plc provides meteorological services for civil aviation.

Chief Meteorological Officer  
Meteorological Office  
Malta International Airport plc.  
Luqa LQA 4000  
Malta  
Phone: (356) 23 69 60 21  
Fax: (356) 21 24 66 94  
AFS: LMMLYMYX  
Email: Chief Meteorological Officer <joseph.schiavone@maltairport.com>  
Email: General Enquiries <met.office@maltairport.com>

1.2 The service is provided in accordance with the provisions contained in the following ICAO documents:

*Annex 3 - Meteorological Service for International Air Navigation*

*Doc. 7030 - Regional Supplementary Procedures*

*Doc. 7155 - Meteorological Tables*

*Doc. 7754 - Air Navigation Plan (EUR Region)*

*Doc. 8400 - ICAO Abbreviations and Codes*

**2. Area of responsibility**

2.1 Meteorological service is provided for the Malta FIR/UIR.

**3. Meteorological observations and reports**

Name of station/ Location indicator	Type & frequency of observation/ automatic observing equipment	Types of MET reports & Supplementary Information included	Observation System & Site(s)	Hours of operation	Climatological information
1	2	3	4	5	6
LUQA/ International LMML 16597	Half hourly, six hourly plus special observations/ Automatic Weather Integrated Observing System	METAR SPECI TREND Suppl: NIL FT	Cup Anemometer RVR EQPT (RWY 13/31 only) Ceilometer (see AD chart for the location of these systems) Thermometer (at MET) Temperature, Pressure, Humidity sensors, Ultrasonic wind Detector, Lightning Detector, Precipitation, Runway water level sensors, Pressure	H24	Climatological tables AVBL

**4. Types of service**

4.1 A main Malta Meteorological Office, which incorporates a Meteorological Watch Office, is located on the aerodrome at Luqa where a continuous forecasting and observing service is maintained.

4.2 Self briefing, personal briefing and consultation for flight crew members are provided. Flight documentation is normally provided for international flights. This comprises a significant weather chart, an upper wind and

upper air temperature charts and the latest available aerodrome forecast en-route, FT and SE, and for the destination and alternate aerodromes. Aerodrome forecasts are issued in TAF code.

## 5. Notification required from operators

- 5.1 Notification of flights for which flight forecasts are required is the responsibility of the operator's local representative or the aircraft commander.
- 5.2 Requests for flight forecasts should state the time of departure, the duration of the flight and the height for which it is planned. It should include details of the route, destination and alternate aerodrome.
- 5.3 Operators of unscheduled services are advised to submit such notification at least 8 hours before the expected time of departure if the flight is of more than 800 km and at least 4 hours before the expected time of departure for shorter flights.
- 5.4 In the case of a long distance flight, a preliminary briefing on the meteorological outlook may be desirable some time before the departure of the aircraft.

## 6. Aircraft reports

### 6.1 Special Aircraft Observations

- 6.1.1 Special observations shall be made and reported by all aircraft whenever the following conditions are encountered or observed:
- a. moderate or severe turbulence; or
  - b. moderate or severe icing; or
  - c. severe mountain wave; or
  - d. thunderstorms, without hail, that are obscured, embedded, widespread or in squall lines; or
  - e. thunderstorms, with hail, that are obscured, embedded, widespread or in squall lines; or
  - f. heavy dust storm or heavy sandstorm; or
  - g. volcanic ash cloud; or
  - h. pre-eruption volcanic activity or a volcanic eruption.
- 6.1.2 When other meteorological conditions not listed under 6.2.1, e.g. wind shear, are encountered and which, in the opinion of the pilot-in-command, may affect the safety or markedly affect the efficiency of other aircraft operations, the pilot-in-command shall advise the appropriate air traffic services unit as soon as practicable.

## 7. VOLMET service

Name of station	Call sign Identification (EM)	Frequency	Broadcast period	Hours of service	Aerodromes included	Contents & format of report
1	2	3	4	5	6	7
LUQA	LUQA VOLMET (A3E)	126.8 MHZ	Continuous	H24	ROME/ FIUMICINO NAPLES PALERMO CATANIA TUNIS TRIPOLI BENGHAZI LUQA	METAR and TREND

**8. SIGMET service**

Name of MWO/ location indicators	Hours	FIR served	Type of SIGMET/ validity	Specific procedures	ATS unit served	Additional information
1	2	3	4	5	6	7
Luqa/ International LMMM	H24	MALTA FIR/UIR	SIGMET/4HR	NIL	MALTA ACC	NIL

**8.1 General**

- 8.1.1 For the safety of air traffic, the Meteorological Office maintains an area meteorological watch and warning service. This service consists partly of a continuous weather watch within the Malta FIR and the issuance of appropriate information (SIGMET) and partly of the issuing of warning for Luqa.

**8.2 Area meteorological watch service**

- 8.2.1 The Meteorological Office at Luqa performs the area meteorological watch service.
- 8.2.2 This office issues information in the form of SIGMET messages about the occurrence or expected occurrence of one or several significant meteorological phenomena, namely, thunderstorms, severe turbulence, severe icing, severe mountain waves, heavy sand storm/dust storm and volcanic ash cloud.
- 8.2.3 SIGMET is issued in abbreviations and plain language (English) using ICAO abbreviations and are numbered consecutively for each day commencing at 0001. Their period of validity is generally 4 hours from the time of transmission. Low Level Significant Weather (SIG WX) charts are issued. AIRMET messages are not issued.
- 8.2.4 Additionally, the Meteorological Watch Office will inform Air Traffic Control of the occurrence or expected occurrence of thunderstorms, moderate icing, light to moderate hail or moderate turbulence within the vicinity of Luqa. This information is intended for the safety of low-level flights.

**8.3 Warning service**

- 8.3.1 Warning for the protection of parked aircraft or of other equipment at the airport is issued if one or several phenomena are expected to occur at the airport. Such phenomena are squall, thunderstorm, hail, frost, heavy rime deposit and freezing precipitation.
- 8.3.2 Warnings are issued in English and are issued locally in accordance with criteria that have been agreed locally and to an agreed distribution list.

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## GEN 3.6 SEARCH AND RESCUE

### 1. Responsible service

1.1 The search and rescue service in Malta is provided by the Armed Forces of Malta with the collaboration of the Civil Aviation Directorate – Transport Malta and the Malta Air Traffic Services. The Rescue Coordination Centre (RCC) is manned H24 and caters for air and maritime incidents.

1.2 The address of the RCC is as follows:

Rescue Coordination Centre  
Headquarters  
Armed Forces of Malta  
Luqa Barracks  
Luqa VLT 2000  
Malta  
Phone: (356) 21 25 72 67  
Phone: (356) 22 49 42 02  
Fax: (356) 21 80 98 60  
AFS: LMMLYCYC  
Email: rccmalta@gov.mt

1.3 The service is provided in accordance with the provisions contained in ICAO Annex 12 — *Search and Rescue*.

### 2. Area of responsibility

2.1 The search and rescue service is responsible for all SAR operations in the Malta Search and Rescue Region which is co-incidental with the Malta FIR.

### 3. Types of service

3.1 Details of related rescue units are given in [GEN-3.6 - paragraph 3.3 - Search and Rescue Units](#). In addition, various elements of the Armed Forces of Malta, the Civil Protection Department, the Civil Police, civil aircraft and merchant vessels may also be called to assist, when required. Neighbouring RCCs may also be called to assist in search and rescue operations. The Fire and Ambulance services, as well as the aeronautical and maritime telecommunications services are also available to the search and rescue organisation.

3.2 In Malta, when an aircraft crashes on land outside the airport and no air searches are required, the responsibility for dealing with the incident devolves with the Civil Protection Department. In the case when an aircraft incident occurs within Luqa aerodrome, the responsibility rests with Malta International Airport plc. The RCC, upon becoming aware of an aircraft in distress and knowing its emergency, will notify the Civil Protection Operations Centre. The Civil Protection will, in turn, alert the Fire, Ambulance and Hospital services as appropriate.

3.3 Search and Rescue Units

AIR WING			
Name	Location	Facilities	Remarks
1	2	3	4
Luqa Airport  Armed Forces of Malta helicopters and light aircraft  (24-hour standby)	355127.15N 0142838.78E	2 x Alouette III 316B SRG	Radio: VHF AM, VHF Marine Homing Range: 70NM 15 MIN notice to move, day operations only
		3 x AgustaWestland 139	Radio: UHF, VHF AM, VHF Marine, HF Homing Radar EO/IR Optics Range: 150NM 30 MIN notice to move during working hours 120 MIN notice to move during silent hours Can drop 10-man life rafts/smoke flares/markers
		1 x BN2T Islander MRG	Radio: VHF AM, VHF Marine, HF Homing Radar Range: 150NM 30 MIN notice to move
		3 x BE20 King Air	Radio: VHF AM, VHF Marine, HF, UHF Homing Radar EO/IR Optics Range: 500NM 60 MIN notice to move All weather Can drop 5-man or 10-man life rafts/ smoke flares/markers

MARITIME SQUADRON			
Name	Location	Facilities	Remarks
1	2	3	4
Marsamxett Harbour  Armed Forces of Malta patrol vessels and launches  (24-hour standby)	355400N 0143020E (not in WGS-84)	2 x SAR launches (Vittoria Class)	Radio: UHF, VHF AM/FM, VHF Marine, DSC, HF DSC Homing Radar 5 MIN notice to move All weather Range: 70NM Speed: 32 kt
		4 x Inshore patrol boats (4 x Austal Class)	Radio: VHF AM/FM, UHF, HF, VHF Marine DSC Homing Radar At least one deployed 24-hours
		2 x Offshore patrol vessels (1 x Diciotti Class & 1 x Emer Class)	Radio: UHF, VHF FM, VHF Marine DSC, HF DSC Homing Radar 180 MIN notice to move
		2 x Medium Patrol Craft (Protector Class)	Radio: UHF, VHF FM, VHF Marine DSC, HF DSC Homing Radar 120 MIN notice to move

*Note: It should be noted that the above tables detail the total of available SAR units. At any given moment the actual quantities of SAR units available will depend on the technical availability of assets.*

#### 4. SAR agreements

- 4.1 Three formal SAR agreements have been concluded between the SAR services of Malta and those of Libya, the United States of America and Greece. Malta enjoys excellent SAR co-ordination with its neighbouring states.

#### 5. Conditions of availability

- 5.1 The SAR service and facilities in Malta are available without charge to neighbouring States upon request to the RCC at all times when they are not engaged in SAR operations in Malta.

#### 6. Procedures and signals used

##### 6.1 Procedures

- 6.1.1 Procedures for pilots-in-command observing an accident or intercepting a distress call and/or message are outlined in ICAO Annex 12, Chapter 5.

##### 6.2 Communications

- 6.2.1 Transmissions and reception of distress messages within the Malta FIR are handled in accordance with ICAO Annex 10, Volume II.
- 6.2.2 For communications during SAR operations, the codes and abbreviations to be used are those published in IAMSAR Search and Rescue Manual, Volume III.
- 6.2.3 The international emergency frequency 121.5 MHZ is guarded continuously by ATS units.
- 6.2.4 The auxiliary SAR frequency 123.1 MHZ is used during SAR operations.

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**6.3            *Search and rescue signals***

6.3.1            The SAR signals to be used are those prescribed in IAMSAR Search and Rescue Manual, Volume III.

## **GEN 4 CHARGES FOR AERODROMES/HELIPORTS AND AIR NAVIGATION SERVICES**

### **GEN 4.1 AERODROME/HELIPORT CHARGES**

#### **1. Applicable charges**

- 1.1 Information regarding the various charges applicable to landing aircraft (day, night, local flights and any rebates), parking of aircraft, passenger service and security may be obtained from:

Airport Operations  
Malta International Airport plc.  
Luqa LQA 4000  
Malta  
Phone: (356) 23 69 61 68  
Phone: (356) 23 69 61 59  
Fax: (356) 21 24 95 64  
SITA: MLAHKXH  
Email: operations@maltairport.com

- 1.2 No reduction of landing or parking charges will be allowed because of the unavailability of any aerodrome services or other facilities.

#### **2. Ground handling**

- 2.1 Information regarding the ground handling services available to passenger and cargo aircraft at Luqa Airport, as well as information on the applicable charges, may also be obtained from the above.

#### **3. Methods of payment**

- 3.1 All charges due by aircraft operators or their representatives are payable, prior to departure, to Malta International Airport plc.
- 3.2 Payment may be made by major credit cards as well as in U.S. Dollars and Euro in cash.
- 3.3 Operators or their representatives operating on a regular basis may seek to establish credit facilities with Malta International Airport plc. Such credit is given at the discretion of this Company and has to be supported by a bank guarantee acceptable to this Company.

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**GEN 4.2     AIR NAVIGATION SERVICES CHARGES**

**1.            Collection of charges for Air Traffic Control of en-route traffic**

1.1           Pursuant to the Civil Aviation (Route Charges for Navigation Services) Regulations, 1989, Malta is integrated in the EUROCONTROL Route Charges System.

1.2           Route air navigation charges for flights within the Malta FIR/UIR are billed and collected by EUROCONTROL on behalf of Malta. The charge shall be based on distance, MTOW and service unit rate.

1.3           Information concerning the Route Charges System may be obtained from:

EUROCONTROL  
CENTRAL ROUTE CHARGES OFFICE  
Rue de la Fusée 96  
B-1130 Brussels  
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## **PART 2 - EN-ROUTE (ENR)**

### **ENR 0**

#### **ENR 0.1      PREFACE**

Nil

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**ENR 0.2      RECORD OF AIP AMENDMENTS**

Nil

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**ENR 0.3      RECORD OF AIP SUPPLEMENTS**

Nil

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**ENR 0.4      CHECKLIST OF AIP PAGES**

Nil

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**ENR 0.5     LIST OF HAND AMENDMENTS TO THE AIP**

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**ENR 1 GENERAL RULES AND PROCEDURES****ENR 1.1 GENERAL RULES****1. General****1.1 Introduction**

1.1.1 Except for the differences listed in GEN 1.7, the air traffic rules and procedures applicable to air traffic in the Malta FIR/UIR generally conform to Annexes 2 and 11 to the Convention on International Civil Aviation, Procedures for Air Navigation Services - Air Traffic Management (ICAO Doc. 4444) and Regional Supplementary Procedures applicable to the EUR Region (ICAO Doc. 7030) and Union Legislation SERA 923/2012.

**1.2 ATS routes**

1.2.1 For the purpose of ATS provision the width of all ATS routes is 5 NM either side of the centreline. The vertical extent of the routes that provides for the Minimum En-Route Level for IFR flights is shown in column 4 of the tables in ENR 3. The Minimum Flight Altitude of all the ATS routes is 3000 ft.

1.2.2 The ATS route network above FL095, as listed in the tables in ENR 3, is designed to contain aircraft navigating to RNP5 in accordance with the ICAO provisions of B-RNAV in the EUR Region.

1.2.3 Unless otherwise authorised by ATC, aircraft flying along published ATS routes are required, in so far as practicable, to operate along the defined centreline. Based on the traffic situation, aircraft may expect clearances to fly from entry point to exit point in the Malta FIR/UIR and in areas within the Roma FIR/UIR where ATS provision has been delegated from Italy to Malta, as indicated in ENR 2.2.

**1.3 Controlled airspace in the Malta FIR/UIR**

1.3.1 The following rules apply to aircraft intending to operate in controlled airspace in the Malta FIR/UIR:

- a. a flight plan must be filed (refer to ENR 1.10);
- b. ATC clearance must be obtained before the airspace is entered;
- c. a continuous RTF watch must be maintained on the appropriate frequency; and
- d. the flight must be conducted in accordance with ATC instructions.

1.3.2 Cruising levels will be allocated in accordance with the semi-circular rules depicted in the Table of Cruising Levels in ENR 1.7-3 unless otherwise published in column 5 of the tables in ENR 3. ATC may allocate a level not appropriate to the aircraft track for tactical reasons.

**2. Class G airspace****2.1 Class G airspace in the Malta FIR/UIR**

2.1.1 The residual airspace within the Malta FIR/UIR which lies outside controlled airspace, is designated Class G. This is applicable both below and above controlled airspace. Pilots wishing to receive an alerting service should contact Malta ATS on the appropriate sector frequency and report "Operations Normal" every 30 minutes. In so far as practical, Flight Information Service and Alerting Service, as described in ICAO Annex 11 and SERA sections 9 and 10, is provided to participating aircraft. However, Flight Information Service and Alerting Service to VFR flights operating below controlled airspace cannot be guaranteed.

2.1.2 Due to radar surveillance and communications limitations in lower airspace, participating aircraft may not always be able to avail themselves of a radar information service or be able to establish two way contact with Malta ACC. Due to these limitations, traffic information on other flights operating outside controlled airspace may not always be possible. This service is provided by Malta ACC through the normal control sectors in operation during day and night.

2.1.3 All aircraft operating outside controlled airspace, wishing to enter or cross controlled airspace, should contact Malta ACC at least 15 minutes before entering controlled airspace in order to obtain an entry clearance. When making such a request, the following information should be given:

- a. the aircraft call sign or identification;
- b. the type of aircraft;
- c. the position, level and flight conditions; and
- d. the estimated time at the point of entry.

### **3. General flight procedures**

#### **3.1 *Climb and descent***

- 3.1.1 When pilots are instructed to report leaving a level, they should advise ATC that they have left an assigned level only when the aircraft's altimeter indicates that the aircraft has actually vacated that level and is maintaining a positive rate of climb or descent.
- 3.1.2 In order to ensure that controllers can accurately predict flight profiles to maintain standard vertical separation between aircraft, pilots of aircraft commencing a climb or descent in accordance with an ATC clearance should inform ATC if they anticipate that their rate of climb or descent during the level change will be less than 500 ft per minute or, if at any time during such a climb or descent, their vertical speed is less than 500 ft per minute. This requirement applies to both the en-route phase of flight and to terminal holding above Transition Altitude.

#### **3.2 *General Procedures***

- 3.2.1 The English language is used for all communications between aircraft and ATC in Malta.
- 3.2.2 VHF/RTF is used for all air-ground communications throughout the airspace under the jurisdiction of Malta. UHF is also available subject to prior notification.
- 3.2.3 As far as possible, pilots should make use of the ICAO standard RTF phraseology in ICAO Doc. 4444 when communicating with ATC.
- 3.2.4 As a general principle all messages should be acknowledged by use of the aircraft callsign. Messages containing any of the following items shall be read back in full:
  - a. level instructions;
  - b. heading instructions;
  - c. speed instructions;
  - d. airways or route clearances;
  - e. runway in use;
  - f. clearances and instructions to enter, land on, take-off from, hold short of, cross, taxi and backtrack on any runway;
  - g. SSR operating instructions;
  - h. altimeter settings; and
  - i. frequency changes.

#### **3.3 *Failure of two-way radio communications equipment***

- 3.3.1 As soon as ATC is aware that two-way communication has failed, ATC will, as far as practical, maintain separation between the aircraft experiencing the communication failure and other aircraft, based on the assumption that the aircraft will operate in accordance with radio communication failure procedures described below.
- 3.3.2 For the purposes of these procedures, ATC will expect an IFR flight following the ATS route structure to adopt the IMC procedure in paragraph 3.3.5, below. If there is an overriding safety reason, the pilot may adopt the VMC procedure.



3.3.3 The procedures detailed in this section apply to two-way communications failure. In the event that an additional emergency situation develops, ATC will expect the pilot to select transponder code on Mode A code 7700.

**3.3.4 *Visual Meteorological Conditions (VMC)***

3.3.4.1 A VFR flight experiencing communication failure shall:

- a. set transponder to Code 7600;
- b. continue to fly in VMC;
- c. when forming part of aerodrome traffic, keep a watch for ATC instructions as may be issued by visual signals;
- d. land at the nearest suitable aerodrome; and
- e. report its arrival time by the most expeditious means to the appropriate ATS unit.

**3.3.5 *Instrument Meteorological Conditions (IMC)***

3.3.5.1 An IFR flight experiencing communication failure shall:

- a. set transponder to Code 7600;
- b. maintain, for a period of 7 minutes, the last assigned speed and level or the minimum flight altitude, if the minimum flight altitude is higher than the last assigned level. The period of 7 minutes commences:
  1. if operating on a route without compulsory reporting points or if instructions have been received to omit position reports:
    - i. at the time the last assigned level or minimum flight altitude is reached, or
    - ii. at the time the transponder is set to Code 7600, whichever is later; or
  2. if operating on a route with compulsory reporting points and no instruction to omit position reports has been received:
    - i. at the time the last assigned level or minimum flight altitude is reached, or
    - ii. at the previously reported pilot estimate for the compulsory reporting point, or
    - iii. at the time of a failed report of position over a compulsory reporting point, whichever is later;

Note: The period of 7 minutes is to allow the necessary air traffic control and coordination measures.

- c. thereafter, adjust level and speed in accordance with the filed flight plan;

Note: With regard to changes to levels and speed, the filed flight plan, which is the flight plan as filed with an ATS unit by the pilot or a designated representative without any subsequent changes, will be used.

- d. if being radar vectored or proceeding offset according to RNAV without a specified limit, proceed in the most direct manner possible to rejoin the current flight plan route no later than the next significant point, taking into consideration the applicable minimum flight altitude;

Note: With regard to the route to be flown or the time to begin descent to the arrival aerodrome, the current flight plan, which is the flight plan, including changes, if any, brought about by subsequent clearances, will be used.

- e. proceed according to the current flight plan route to the appropriate designated navigation aid serving the destination aerodrome and, when required to ensure compliance with (f) below, hold over this aid until commencement of descent;

- f. commence descent from the navigation aid specified in (e) above at, or as close as possible to, the expected approach time last received and acknowledged or, if no expected approach time has been received and acknowledged, at, or as close as possible to, the estimated time of arrival resulting from the current flight plan;
- g. complete a normal instrument approach procedure as specified for the designated navigation aid; and
- h. land, if possible, within thirty minutes after the estimated time of arrival or the last acknowledged expected approach time, whichever is later.

Note: Pilots are reminded that the aircraft may not be in an area of secondary surveillance radar coverage.

### **3.3.6      *Actions by ATC***

- 3.3.6.1      ATC will assume that an aircraft's receiver may be functioning and will transmit instructions for routing and other relevant information such as EAT, weather information, altimeter settings and runway in use at destination, or alternate, aerodromes.
- 3.3.6.2      ATC will use all means possible to monitor the flight's progress and inform other flights, where necessary.
- 3.3.6.3      ATC will attempt to re-establish communications with the pilot by monitoring standby frequencies and by contacting the aircraft operator or handling agent (when available).
- 3.3.6.4      ATC will coordinate the flight with other adjacent ATC units as required.
- 3.3.6.5      If the aircraft's progress cannot be monitored on radar and there has been no other indication of the aircraft's progress, standard alerting action will commence 30 minutes after the ETA for the destination aerodrome or within a period of 30 minutes after the time a communication should have been received.

### **3.4          *Formation flights***

- 3.4.1      Aircraft shall not be flown in formation except by pre-arrangement among the pilots-in-command of the aircraft taking part in the flight and, for formation flight in controlled airspace, in accordance with the conditions prescribed by the competent authority. These conditions shall include the following:
  - a.      one of the pilots-in-command shall be designated as the flight leader;
  - b.      the formation operates as a single aircraft with regard to navigation and position reporting;
  - c.      separation between aircraft in the flight shall be the responsibility of the flight leader and the pilots-in-command of the other aircraft in the flight and shall include periods of transition when aircraft are manoeuvring to attain their own separation within the formation and during join-up and breakaway;
  - d.      for State aircraft a maximum lateral, longitudinal and vertical distance between each aircraft and the flight leader in accordance with the Chicago Convention. For other than State aircraft a distance not exceeding 1 km (0,5 nm) laterally and longitudinally and 30 m (100 ft) vertically from the flight leader shall be maintained by each aircraft; and
  - e.      if this distance is exceeded or it is intended to be exceeded, clearance shall be requested from Malta ATC to dissolve the formation and to establish individual separation.

**ENR 1.2 VISUAL FLIGHT RULES****1. General**

- 1.1 Except when operating as a special VFR flight, VFR flights shall be conducted so that the aircraft is flown in conditions of visibility and distance from clouds equal to or greater than those specified in the table below.

Altitude band	Airspace class	Flight visibility	Distance from cloud
At and above 3 050 m (10 000 ft) AMSL	C, G	8 km	1 500 m horizontally 300 m (1 000 ft) vertically
Below 3 050 m (10 000 ft) AMSL and above 900 m (3 000 ft) AMSL, or above 300 m (1 000 ft) above terrain, whichever is the higher	C, G	5 km	1 500 m horizontally 300 m (1 000 ft) vertically
At and below 900 m (3 000 ft) AMSL, or 300 m (1 000 ft) above terrain, whichever is the higher	C, D	5 km	1 500 m horizontally 300 m (1 000 ft) vertically
	G	5 km* **	Clear of cloud and with the surface in sight
No portion of airspace in the Malta FIR has been classified as Class A, Class B, Class E or Class F.			
<p>*When operating over the high seas and when so prescribed by the appropriate ATS authority:</p> <ol style="list-style-type: none"> <li>flight visibilities reduced to not less than 1 500 m may be permitted for flights operating: <ol style="list-style-type: none"> <li>at speeds that, in the prevailing visibility, will give adequate opportunity to observe other traffic or any obstacles in time to avoid collision; or</li> <li>in circumstances in which the probability of encounters with other traffic would normally be low, e.g. in areas of low volume traffic and for aerial work at low levels.</li> </ol> </li> <li>Helicopters may be permitted to operate in less than 1 500 m flight visibility, if manoeuvred at a speed that will give adequate opportunity to observe other traffic or any obstacles in time to avoid collision.</li> </ol>			
<p>**When operating within territorial waters and when so prescribed by the competent authority:</p> <ol style="list-style-type: none"> <li>flight visibilities reduced to not less than 1 500 m may be permitted for flights operating: <ol style="list-style-type: none"> <li>at speeds of 140 kts IAS or less to give adequate opportunity to observe other traffic or any obstacles in time to avoid collision; or</li> <li>in circumstances in which the probability of encounters with other traffic would normally be low, e.g. in areas of low volume traffic and for aerial work at low levels;</li> </ol> </li> <li>Helicopters may be permitted to operate in less than 1 500 m but not less than 800 m flight visibility, if manoeuvred at a speed that will give adequate opportunity to observe other traffic or any obstacles in time to avoid collision.</li> </ol>			

- 1.2 VFR flights shall not be operated:
- at transonic and supersonic speeds unless authorised by the competent authority;
  - above FL195.
- 1.3 Operators intending to operate within the Malta UIR above FL195 as en-route GAT in VFR should submit their request in writing to Malta ATS at least seven (7) days before the planned conduct of flight. The approval of such flights may be subject to restrictions or specific arrangements agreed by Malta ATS. Special purpose general aviation, sporting and aerial work flights requesting to operate above FL195 in VFR may require exceptional arrangements to operate in reserved airspace.
- 1.4 VFR flights operating as GAT shall not be authorised within the Malta UIR above FL285.
- 1.5 VFR flights between sunset and sunrise shall be operated in accordance with the conditions prescribed in LMML AD 2.22.
- 1.6 Except when necessary for take-off or landing, or except by permission from the Civil Aviation Directorate – Transport Malta, a VFR flight shall not be flown:
- over the congested areas of cities, towns or settlements or over an open-air assembly of persons at a height less than 1000 ft above the highest obstacle within a radius of 600m from the aircraft; and
  - elsewhere than as specified in 1.6 (a), at a height less than 500 ft above ground or water, or 150 m (500 ft) above the highest obstacle within a radius of 150 m (500 ft) from the aircraft.

- 1.7 Except where otherwise indicated in air traffic control clearances, VFR flights in level cruising flight, when operated above 3000 ft from the ground or water, shall be conducted at a flight level appropriate to the track as specified in the tables of cruising levels on page ENR 1.7-3.
- 1.8 VFR flights shall comply with the provisions of an air traffic control service:
- when operated within Class C airspace;
  - when forming part of Luqa aerodrome traffic; or
  - when operated as special VFR flights.
- 1.9 The commander of an aircraft which is being operated in accordance with the visual flight rules who wishes to change to compliance with the instrument flight rules shall:
- if a flight plan was submitted, communicate the necessary change to be effected to its current flight plan; or
  - submit a flight plan to the appropriate air traffic services unit and obtain a clearance prior to proceeding IFR, when in controlled airspace.

## 2. Authorisation for Special VFR flights in Control Zones

- 2.1 Special VFR flights may be authorised to operate within a control zone, subject to an ATC clearance. Except when permitted by the competent authority for helicopters in special cases such as, but not limited to, police, medical, search and rescue operations and fire-fighting flights, the following additional conditions shall be applied:
- such special VFR flights may be conducted during day only, unless otherwise permitted by the competent authority;
  - by the pilot:
    - clear of cloud and with the surface in sight;
    - the flight visibility is not less than 1 500 m or, for helicopters, not less than 800 m;
    - at speed of 140 kts IAS or less to give adequate opportunity to observe other traffic and any obstacles in time to avoid a collision; and
  - An air traffic control unit shall not issue a special VFR clearance to aircraft to take off or land at an aerodrome within a control zone, or enter the aerodrome traffic zone or aerodrome traffic circuit when the reported meteorological conditions at that aerodrome are below the following minima:
    - the ground visibility is less than 1 500 m or, for helicopters, less than 800 m;
    - the ceiling is less than 180 m (600 ft).
- 2.2 Malta ATC will provide standard separation between all special VFR flights and between special VFR flights and all IFR flights.

## 2.3 Radio Communication Failure Procedures

- 2.3.1 The procedures to be adopted by pilots experiencing two-way communication failure are as follows:
- operate the transponder on Mode A code 7600;
  - if it is believed that the transmitter is functioning, transmit blind giving position reports and intentions to ATC; and
  - if special VFR clearance has been obtained when the radio communication failure occurs, proceed in accordance with the special VFR clearance to Luqa aerodrome and land as soon as possible. When entering the aerodrome traffic circuit, watch for visual signals. If the aircraft is flying on a radar heading advised by ATC when the radio communication failure occurs, resume own navigation and proceed in the most direct manner to Luqa aerodrome.

## ENR 1.3 INSTRUMENT FLIGHT RULES

### 1. Rules applicable to all IFR flights

#### 1.1 *Aircraft equipment*

- 1.1.1 Aircraft shall be equipped with suitable instruments and with navigation equipment appropriate to the route to be flown and in accordance with the applicable air operations legislation.

#### 1.2 *Minimum levels*

- 1.2.1 Except when necessary for take-off or landing or when specifically authorised by the competent authority, an IFR flight shall be flown at a level that is not below the established minimum flight altitude.

#### 1.3 *Change from IFR flights to VFR flight*

- 1.3.1 An aircraft electing to change the conduct of its flight from compliance with the instrument flight rules to visual flight rules shall notify Malta ATC that the IFR flight is cancelled and communicate thereto the changes to be made to its current flight plan.
- 1.3.2 When an aircraft operating under the instrument flight rules is flown in or encounters visual meteorological conditions, it shall not cancel its IFR flight unless it is anticipated, and intended, that the flight will be continued for a reasonable period of time in uninterrupted visual meteorological conditions.

### 2. Rules applicable to IFR flights within controlled airspace

- 2.1 IFR flights shall comply with the provisions of ICAO Annex 2 and Union Legislation when operated in controlled airspace.
- 2.2 An IFR flight operating in cruising flight in controlled airspace shall be flown at a cruising level, or if authorised to employ cruise climb techniques, between two levels or above a level, selected from the tables of cruising levels shown on page ENR 1.7-2, except that the correlation of levels to track prescribed therein shall not apply whenever otherwise indicated in ATC clearances or as specified in ENR 3.3.
- 2.3 As specified in the ICAO EUR Regional Supplementary Procedures (Doc 7030/4 – EUR), flights shall be conducted in accordance with the Instrument Flight Rules when operated within or above EUR RVSM airspace. Therefore, flights operating as General Air Traffic (GAT) within the Malta UIR at or above FL290, as described in ENR 2.1, shall be conducted in accordance with the Instrument Flight Rules.

### 3. Rules applicable to IFR flights outside controlled airspace

- 3.1 An IFR flight operating in cruising flight outside controlled airspace shall be flown at a cruising level appropriate to its track as specified in the tables of cruising levels indicated in table ENR 1.7-2.
- 3.2 An IFR flight operating outside controlled airspace shall maintain a listening watch on the appropriate radio frequency and establish two-way radio communication, as necessary, with Malta ATC.

### 4. Free route airspace general procedures

#### 4.1 *Area of application*

- 4.1.1 FRA procedures are available H24 in Malta AOR above FL305 up to FL660 unless specific contingencies notified by NOTAM are required due to system, communication or surveillance failures. For further details see ENR 2.1, ENR 2.2 and ENR Charts.

#### 4.2 *Flight Procedures*

##### 4.2.1 *General*

- 4.2.1.1 Traffic will be subject to General Rules (ENR 1.1), RAD and Letters of Agreement (LoA) between neighbouring ACCs.
- 4.2.1.2 Within FRA, users will be able to plan user-preferred trajectories through the use of significant points included in AIP Malta ENR 4.4 'Name-code designators for significant points' and ENR 4.1 'Radio navigation aids –

enroute', respectively. Segments between significant points will be indicated by means of "DCT" instructions.

**4.2.1.3 DCT usage / limitations**

4.2.1.3.1 Within FRA, there is no restriction on the maximum DCT distance that can be flight planned between points.

4.2.1.3.2 The planning of DCT segments that are outside the lateral limits of the FRA in the Malta AOR is not allowed.

4.2.1.3.3 Vertical transition to / from FRA to the published ATS route network should be planned via a FRA Intermediate point or via a Mandatory Point as indicated in the RAD.

**4.2.2 Overflying traffic**

4.2.2.1 Overflying traffic should plan directly from MALTA AOR FRA entry point to the MALTA AOR FRA exit point, with the option to route via one or more FRA intermediate points, subject to RAD and airspace availability.

4.2.2.2 When requested by the pilot to climb into FRA but not indicated in Field 15 of the FPL or for ATC tactical purposes, Malta ACC may clear aircraft into FRA direct to a FRA exit point in the Malta AOR.

4.2.2.3 When requested by the pilot to descend below FRA but not indicated in Field 15 of the FPL or for ATC tactical purposes, Malta ACC may clear aircraft direct to a FRA exit point in the Malta AOR.

**4.2.3 Access to/from Terminal Airspace**

4.2.3.1 Arriving traffic to LMML / LICD should plan directly from FRA Entry Point (E) to the FRA Arrival Connecting Point (A) / STAR initial waypoint, as indicated in the RAD. The FRA Arrival Connecting Point (A) may also be the FRA Entry Point (E). Flight planning following the FRA Arrival Connecting Point (A) should be based on the ATS route network.

4.2.3.2 Departing traffic from LMML / LICD should plan directly from FRA Departure Connecting Point (D) / SID final waypoint to the FRA Exit Point (X) as indicated in the RAD. The FRA Departure Connecting Point (D) may also be the FRA Exit Point (X). Flight planning preceding the FRA Departure Connecting Point (D) should be based on the ATS route network.

4.2.3.3 Flight planning within the FRA will comply with adjacent ATS route network orientation.

**4.2.4 Cross-border Application**

4.2.4.1 Cross-border DCT is not allowed.

**4.3 Airspace Reservation — Special Areas**

**4.3.1 Re-routing Special Areas**

4.3.1.1 Unless specifically advised by NOTAM and coordinated with the Network Manager, AOs should plan their trajectory inside FRA disregarding segregated airspace. Should tactical re-routing be required, Malta ACC will provide radar vectors or alternative instructions to avoid the segregated airspace. In exceptional circumstances, a flight extension of 15NM may be expected.

**5. Position reporting**

5.1 IFR flights on ATS routes shall make position reports:

(a) immediately on initial contact;

(b) as instructed by ATC.

5.2 Position reports shall contain:

(a) the aircraft call sign or identification;

(b) the actual level and, when climbing or descending, the cleared level;

(c) position and time; and

(d) next reporting point and estimated time over that point.

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**6.                   Communication failure**

- 6.1                   In case of communication failure, pilots shall act in accordance with the communication failure procedure described in ENR 1.1.

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**ENR 1.4     ATS AIRSPACE CLASSIFICATION****1.            Classification of airspace****1.1            ATS airspace is classified and designated in accordance with the following:**

*Class A* — IFR flights only are permitted. All flights are provided with air traffic control service and are separated from each other. Continuous air-ground voice communications are required for all flights. All flights shall be subject to ATC clearance.

*Class B* — IFR and VFR flights are permitted. All flights are provided with air traffic control service and are separated from each other. Continuous air-ground voice communications are required for all flights. All flights shall be subject to ATC clearance.

*Class C* — IFR and VFR flights are permitted. All flights are provided with air traffic control service and IFR flights are separated from other IFR flights and from VFR flights. VFR flights are separated from IFR flights and receive traffic information in respect of other VFR flights and traffic avoidance advice on request. Continuous air-ground voice communications are required for all flights. For VFR flights a speed limitation of 250 kts indicated airspeed (IAS) applies below 3 050 m (10 000 ft) AMSL, except where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed. All flights shall be subject to ATC clearance.

*Class D* — IFR and VFR flights are permitted and all flights are provided with air traffic control service. IFR flights are separated from other IFR flights, receive traffic information in respect of VFR flights and traffic avoidance advice on request. VFR flights receive traffic information in respect of all other flights and traffic avoidance advice on request. Continuous air-ground voice communications are required for all flights and a speed limitation of 250 kts IAS applies to all flights below 3 050 m (10 000 ft) AMSL, except where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed. All flights shall be subject to ATC clearance.

*Class E* — IFR and VFR flights are permitted, IFR flights are provided with air traffic control service and are separated from other IFR flights. All flights receive traffic information, as far as is practical. Continuous air-ground voice communications are required for IFR flights. A speed limitation of 250 kts IAS applies to all flights below 3 050 m (10 000 ft) AMSL, except where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed. All IFR flights shall be subject to ATC clearance. Class E shall not be used for control zones.

*Class F* — IFR and VFR flights are permitted. All participating IFR flights receive an air traffic advisory service and all flights receive flight information service if requested. Continuous air-ground voice communications are required for IFR flights participating in the advisory service and all IFR flights shall be capable of establishing air-ground voice communications. A speed limitation of 250 kts IAS applies to all flights below 3 050 m (10 000 ft) AMSL, except where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed. ATC clearance is not required.

*Class G* — IFR and VFR flights are permitted and receive flight information service if requested. All IFR flights shall be capable of establishing air-ground voice communications. A speed limitation of 250 kts IAS applies to all flights below 3 050 m (10 000 ft) AMSL, except where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed. ATC clearance is not required.

Implementation of Class F shall be considered as a temporary measure until such time as it can be replaced by an alternative classification.

**1.1.1            The designation of the airspace classification shall be appropriate to the needs of the Member States, except that all airspace above FL195 shall be classified as Class C airspace.**

1.2 The requirements for the flights within each class of airspace are as shown in the following table.

Class	Type of flight	Separation provided	Service provided	Speed limitation	Radio communication requirement	Subject to an ATC clearance
<b>A</b>	IFR only	All aircraft	Air traffic control service	Not applicable	Continuous two-way	Yes
<b>B</b>	IFR VFR	All aircraft	Air traffic control service	Not applicable	Continuous two-way	Yes
<b>C</b>	IFR	IFR from IFR IFR from VFR	Air traffic control service	Not applicable	Continuous two-way	Yes
	VFR	VFR from IFR	(1) Air traffic control service for separation from IFR; (2) Air traffic control service, VFR/VFR traffic information (and traffic avoidance advice on request)	250 kt IAS below FL100		
<b>D</b>	IFR	IFR from IFR	Air traffic control service, traffic information in respect of VFR flights (and traffic avoidance advice on request)	250 kt IAS below FL100	Continuous two-way	Yes
	VFR	Nil	Air traffic control service, IFR/VFR and VFR/VFR traffic information (and traffic avoidance advice on request)			
<b>E</b>	IFR	IFR from IFR	Air traffic control service and, as far as practical, traffic information about VFR flights	250 kt IAS below FL100	Continuous two-way	Yes
	VFR	Nil	Traffic information as far as practical		No	No
<b>F</b>	IFR	IFR from IFR as far as practical	Air traffic advisory service and flight information service if requested	250 kt IAS below FL100	Continuous two-way	No
	VFR	Nil	Flight information service if requested		No	
<b>G</b>	IFR	Nil	Flight information service if requested	250 kt IAS below FL100	Continuous two-way	No
	VFR				No	

**ENR 1.5 HOLDING, APPROACH AND DEPARTURE PROCEDURES****1. General**

1.1 The holding, approach and departure procedures in use are based on those contained in ICAO Doc. 8168 — *Procedures for Air Navigation Services - Aircraft Operations* (PANS-OPS).

1.2 The holding patterns shall be entered and flown as indicated below.

Flight level (FL)	Category A and B aircraft	Jet aircraft	
		Normal conditions	Turbulence conditions
Up to and including FL140	170 KT	230 KT	280 KT or Mach 0.80 whichever is less
Above FL140 to FL200	240 KT		
Above FL200 to FL340	265 KT		
Above FL340	Mach 0.83		Mach 0.83

1.3 Upon entering the holding pattern, the pilot should turn right when passing over the designated holding fix and continue outbound for:

- a. 1 minute, if at FL140 or below; or
- b. 1.5 minutes, if above FL140.

1.4 When the outbound leg is completed, the pilot should turn right so as to re-align the aircraft on the inbound track.

1.5 PANS-OPS stresses the need for flight crew and operational personnel to adhere strictly to the published procedures in order to achieve and maintain an acceptable level of safety in operations.

**2. Arriving flights**

NIL

**3. Departing flights**

NIL

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**ENR 1.6     ATS SURVEILLANCE SERVICES AND PROCEDURES****1.             Radar service and procedures****1.1             General**

1.1             Malta generally subscribes to the procedures for the use of radar in Air Traffic Services that are specified in ICAO Doc. 4444.

1.2             The extent of flight information service and the use of radar in Class G airspace are limited by radar coverage and radio communications limitations over high seas airspace. Malta ACC will attempt to identify aircraft and provide a radar flight information service. However, the identification procedure does not imply that a radar information service is being provided. Therefore, pilots operating in Class G airspace in radio and/or radar contact with Malta ACC should not always expect traffic information on other aircraft in Class G airspace. Pilots should also note that they are wholly responsible for maintaining separation from other aircraft whether or not the controller has passed traffic information.

1.3             Pilots operating in Class G airspace should also be aware that military activity over high-seas airspace by foreign military forces is not always known or notified to Malta ACC.

**1.2             Supplementary services**

1.2.1           A radar unit normally operates as an integral part of the parent ATS unit and provides radar service to aircraft, to the maximum extent practicable, to meet the operational requirement. Many factors, such as radar coverage, controller workload and equipment capabilities, may affect these services, and the radar controller shall determine the practicability of providing or continuing to provide radar services in any specific case. Radar service is provided on a continuous basis (H24).

1.2.2           A pilot will know when radar services are being provided because the radar controller will use the following call signs:

- a.           aircraft under area control — “Radar Contact”;
- b.           aircraft under approach control — “Radar Contact”;
- c.           aircraft carrying out a precision radar approach — “Radar Contact”.

1.2.3           Malta area control service uses surveillance data from seven radar stations:

- a.           DG — Dingli PSR and SSR, MAX range PSR 200 NM, MAX range SSR 250 NM;
- b.           FW — Fawwara SSR, MAX range 250 NM;
- c.           HF — Hal Far SSR, MAX range 250 NM;
- d.           LQ — Luqa PSR and SSR, MAX range PSR 60 NM, MAX range SSR 250 NM;
- e.           KT — Kithira SSR and ADS-B, MAX range SSR 210 NM;
- f.           LK — Lefkas SSR, MAX range 210 NM;
- g.           US — Ustica PSR and SSR, MAX range PSR 160 NM, MAX range SSR 180 NM.

1.2.4           Luqa approach control service uses surveillance data from Hal Far radar station with contributions of fused data from Luqa, Dingli, Fawwara and Ustica radars.

**1.3             The application of radar control service**

1.3.1           Radar identification is achieved according to the provisions specified by ICAO.

1.3.2           Radar control service is provided within the whole of the Malta UIR from FL195 to FL660, along ATS routes within the Malta FIR from MEL to FL195, within the Malta TMA from 2000 FT AMSL to FL195 and in the Malta CTR. This service may include:

- a.           radar separation of arriving, departing and en-route traffic;

- b. radar monitoring of arriving, departing and en-route traffic to provide information on any significant deviation from the normal flight path;
- c. radar vectoring when required;
- d. assistance to aircraft in emergency;
- e. assistance to aircraft crossing controlled airspace;
- f. warnings and position information on other aircraft considered to constitute a hazard;
- g. information to assist in the navigation of aircraft; and
- h. information on observed weather.

1.3.3 The minimum horizontal radar separations are:

- a. 5NM, in the Malta ACC WEST Sector including the Malta TMA; and
- b. 10NM in the Malta ACC EAST Sector.

1.3.4 Radar Controllers are only responsible for terrain clearance when vectoring IFR flights and when taking an aircraft off an ATS route by giving a direct routing. Levels or altitudes assigned by the radar controller will provide a minimum terrain clearance.

1.3.5 ***Radar maintenance schedule:***

Radar	Maintenance schedule
DG	every first Wednesday of the month between 0700 LT and 1100 LT*
FW	every third Wednesday of the month between 0700 LT and 1100 LT
LQ	every first Monday of the month between 0700 LT and 1100 LT**
HF	every third Monday of the month between 0700 LT and 1100 LT
* In addition, there will be an hour long weekly inspection every Wednesday evening/night	
** In addition, there will be an hour long weekly inspection every Monday morning	

1.4 ***Radar and air-ground communication failure procedures***

1.4.1 ***Radar failure***

1.4.1.1 In the event of radar failure or loss of identification, instructions will be issued to restore non-radar standard separation. In such cases, vertical separation of 500 FT may be resorted to as a temporary measure.

1.4.2 ***Air-ground communication failure***

1.4.2.1 The radar controller will establish whether the aircraft radio receiver is working by instructing the pilot to make SSR code changes, to operate IDENT and to carry out turns. If the changes are observed, the radar controller will continue to provide radar service to the aircraft.

1.4.2.2 If the aircraft's radio is completely unserviceable, the pilot should carry out the procedures for radio failure in accordance with ENR 1.1. If radar identification has already been established, the radar controller will vector other identified aircraft clear of its track until such time as the aircraft leaves radar cover.

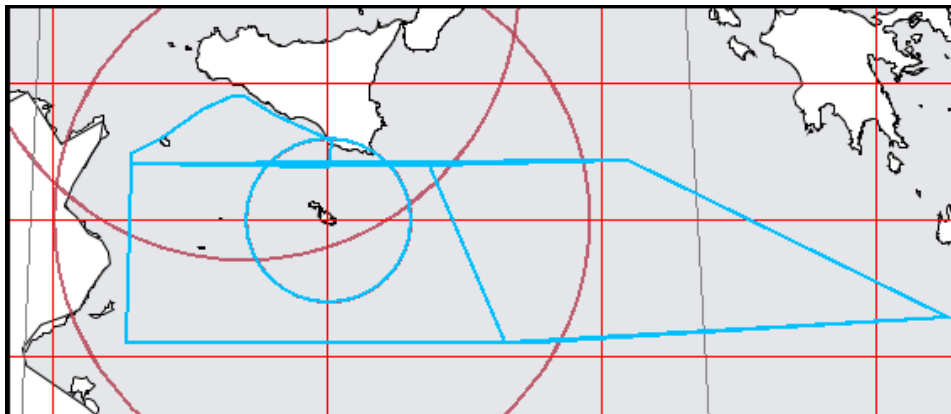
1.5 ***ATC Surveillance Minimum Altitude Chart***

1.5.1 A Surveillance Minimum Altitude Area is a defined area in the vicinity of an aerodrome, in which the minimum safe levels allocated by a controller vectoring IFR flights with Secondary Radar equipment have been predetermined. The Surveillance Minimum Altitude Area Chart and associated minimum vectoring altitudes for Luqa aerodrome can be found in AD2-LMML-SMAC - 1.

1.5.2 The Surveillance Minimum Altitude Area Chart for Luqa aerodrome shows the following information:

- a. outline of the Surveillance Minimum Altitude Area;
- b. significant obstructions and spot heights;

- c. Minimum Safe Altitude within the Surveillance Minimum Altitude Area;
- d. transition altitude; and
- e. loss of communication procedures.

**1.6****Graphic portrayal of area of PSR coverage****2. Secondary surveillance radar operating procedures****2.1 General**

- 2.1.1 All aircraft operating within controlled airspace in the Malta FIR/UIR are required to operate with serviceable transponder having Mode A4096 code and Mode C altitude reporting capability.
- 2.1.2 In airspace where the operation of transponders is not mandatory (e.g. outside controlled airspace), pilots of suitably equipped aircraft should comply with paragraph 2.2.1, below.
- 2.1.3 Except as detailed in paragraph 2.2.1 below, pilots shall:

- a. maintain code settings as instructed by Malta ATC;
- b. select or reselect codes, or switch off the equipment when airborne only when instructed by Malta ATC;
- c. acknowledge code setting instructions by reading back the code to be set;
- d. select Mode C simultaneously with Mode A unless otherwise instructed by Malta ATC; and
- e. when reporting levels under routine procedures or when requested by ATC, state the current altimeter reading to the nearest 100 FT. This will assist in the verification of Mode C data transmitted by the aircraft.

Note: If, upon verification, there is a difference of more than 200 FT between the level readout and the reported level, the pilot will normally be instructed to switch off Mode C.

**2.2 Special Purpose Codes**

- 2.2.1 Some codes are reserved internationally for special purposes and should be selected as follows:
  - a. Code 7700, to indicate an emergency condition and should be selected as soon as is practicable after declaring an emergency situation with due regard of the over-riding importance of controlling the aircraft and containing the emergency;
  - b. Code 7600, to indicate a radio failure;
  - c. Code 7500, to indicate unlawful interference with the planned operation of a flight, unless circumstances warrant the use of Code 7700;
  - d. Code 2000, when entering the Malta FIR/UIR from an adjacent region where the operation of

transponders has not been required; and

- e. Code 7000, when not receiving an ATC service outside controlled airspace.

Note: Mode C should be operated with all of the above codes.

## 2.3

### **Malta SSR Code Allocation List**

Transponder Codes Retained by Malta ACC			
0101 - 0177	0201 - 0277	0301 - 0377	0401 - 0477
0501 - 0577	0601 - 0677	0701 - 0777	1101 - 1176
1201 - 1277	1330 - 1377	2001 - 2077	2150 - 2177
2201 - 2277	2301 - 2377	2501 - 2577	2701 - 2777
3001 - 3077	3101 - 3177	3201 - 3277	3501 - 3577
3701 - 3757	4130 - 4177	4301 - 4377	4501 - 4577
4601 - 4677	5201 - 5277	5301 - 5377	5501 - 5577
5601 - 5677	5701 - 5777	6001 - 6077	6101 - 6177
6501 - 6557	6601 - 6677	7101 - 7177	7201 - 7277
7301 - 7377	7501 - 7577	7601 - 7677	7701 - 7775

## 2.4

### **Transponder failure**

### 2.4.1

#### **Failure after departure**

#### 2.4.1.1

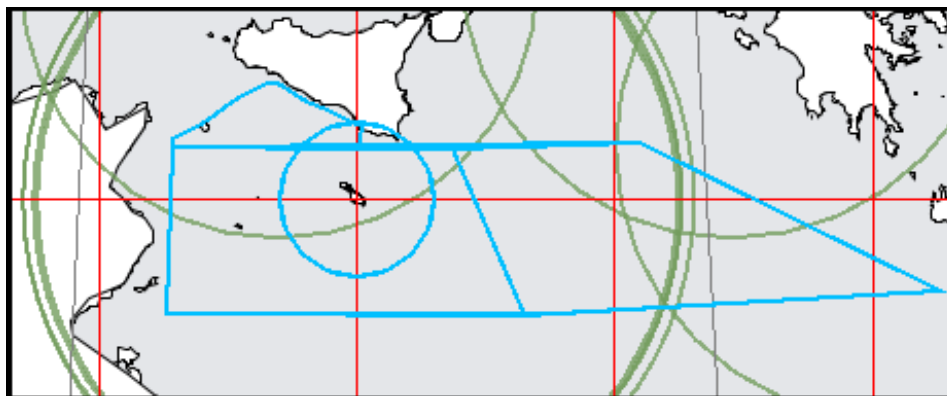
If the transponder fails after departure or en-route, Malta ATC will endeavour to provide for the continuation of the flight in accordance with the original flight plan. In certain traffic situations this may not be possible particularly when the failure is detected shortly after take-off. The aircraft may then be required to return to LMML aerodrome.

#### 2.4.1.2

A temporary failure of SSR Mode C alone would not normally restrict the operation of the flight.

## 2.5

### **Graphic portrayal of area of SSR coverage**



## 3.

### **Automatic Dependent Surveillance — Broadcast (ADS-B)**

### 3.1

#### **Introduction**

#### 3.1.1

ADS-B OUT is a function on-board an aircraft that periodically transmits data such as identification, position, velocity and other information. The data link used for ADS-B messages in Europe is 1090 MHz Extended Squitter. The aircraft ADS-B position is derived from onboard GNSS-based systems.

### 3.2

#### **ADS-B equipage and ADS-B data usage**

#### 3.2.1

The requirements for ADS-B OUT equipage can be found in the European Commission Implementing Regulation (EU) No 1207/2011 and subsequent amendments. All data items provided, even those over and above what is specified by the regulation, shall be verified.



3.2.2 The broadcasted ADS-B messages are processed by ADS-B receivers and Surveillance systems, sent to the ATM systems and presented on the Situation Data Display used by ATS providers or can be used by other aircraft with ADS-B IN and/or ACAS functionality.

3.2.3 Aircraft transmitting ADS-B data may be provided with surveillance-based Air Traffic Services based on the ADS-B data, if the provided data quality is in compliance with the ATC service data quality requirements.

### 3.3 ***ADS-B system requirements***

3.3.1 For aircraft required to equip with ADS-B OUT per European Commission Implementing Regulation (EU) No 1207/2011 and subsequent amendments the applicable requirements are European Aviation Safety Agency (EASA) CS ACNS Subpart D, Section 4.

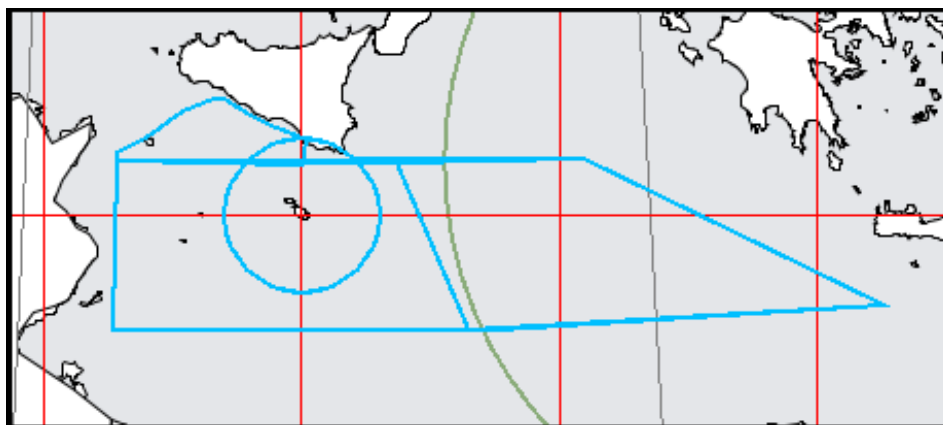
3.3.2 For aircraft not required to equip with ADS-B OUT per European Commission Implementing Regulation (EU) No 1207/2011 and subsequent amendments the ADS-B OUT systems shall comply with one of the standards below:

1. European Aviation Safety Agency (EASA) CS ACNS Subpart D, Section 4; or
2. Federal Aviation Administration (FAA) Title 14 Code of Federal Regulations (14 CFR) section 91.227 or AC No. 20-165B (or replacement) - Airworthiness Approval of ADS-B; or
3. European Aviation Safety Agency (EASA) CS-STAN; or

3.3.3 ADS-B Out systems that are unable to meet the requirements above, must

- ensure that the aircraft always transmits a value of 0 (zero) for one or more of the following position quality indicators: NUCp (only for ADS-B version 0 units), NIC and/or SIL, or
- disable ADS-B transmission.

### 3.4 ***Graphic portrayal of area of ADS-B coverage***



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## ENR 1.7 ALTIMETER SETTING PROCEDURES

### 1. General

- 1.1 The altimeter setting procedures in use generally conform to those contained in ICAO Doc. 8168, Vol I.
- 1.2 The transition altitude for Luqa aerodrome is 5000 ft while the transition level is fixed at FL070.
- 1.3 QNH and temperature reports are provided by the Met Office at Luqa and transmitted in automatic ATIS broadcasts. These reports are also available on request from Malta ATC. QNH values are given in hectopascals and are rounded down to the next whole hectopascal. For example, a QNH of 1015.3 HPA will be given as 1015 HPA.
- 1.4 Vertical positioning of aircraft when at or below the transition altitude is expressed in terms of altitude, whereas such positioning at or above the transition level is expressed in terms of flight levels. While passing through the transition layer, vertical positioning is expressed in terms of altitude when descending and in terms of flight levels when ascending.
- 1.5 Vertical separation exists, or is deemed to exist, between the transition altitude and the transition level.
- 1.6 Flight level zero is located at the atmospheric pressure level of 1013.2 HPA. Consecutive flight levels are separated by a pressure interval corresponding to 500 ft in the standard atmosphere.

### 2. Take-off and climb

- 2.1 A QNH altimeter setting is made available in taxi clearance prior to take-off.
- 2.2 At Luqa aerodrome, the designated location for pre-flight altimeter checks is on the apron.

### 3. Vertical separation — en-route

- 3.1 Vertical separation at and above the transition level and during en-route flight, shall be expressed in terms of flight levels.
- 3.2 IFR flights, and VFR flights above 3000 ft AMSL, when in level cruising flight, shall be flown at such flight levels, corresponding to the magnetic tracks as indicated in table ENR 1.7-2.

### 4. Approach and landing

- 4.1 A QNH altimeter setting is made available in approach clearance and in clearance to enter the traffic circuit.
- 4.2 A QFE altimeter setting is available, on request, in the final approach and landing clearances. At Luqa aerodrome, the QFE setting is given for the runway being used for landing.
- 4.3 Malta ATC does not provide the transition altitude, unless this information is specifically requested by the pilot. The transition level is provided in ATIS broadcasts.

### 5. Missed approach

- 5.1 In the event of missed approach, pilots should continue to use the altimeter setting selected for final approach, unless otherwise authorised by Malta ATC.

## 6. Tables of cruising levels

6.1 The cruising levels to be observed are as follows:

TRACK											
From 000 degrees to 179 degrees						From 180 degrees to 359 degrees					
IFR Flights			VFR Flights			IFR Flights			VFR Flights		
Level			Level			Level			Level		
FL	Feet	Metres	FL	Feet	Metres	FL	Feet	Metres	FL	Feet	Metres
010	1 000	300	—	—	—	020	2 000	600	—	—	—
030	3 000	900	035	3 500	1 050	040	4 000	1 200	045	4 500	1 350
050	5 000	1 500	055	5 500	1 700	060	6 000	1 850	065	6 500	2 000
070	7 000	2 150	075	7 500	2 300	080	8 000	2 450	085	8 500	2 600
090	9 000	2 750	095	9 500	2 900	100	10 000	3 050	105	10 500	3 200
110	11 000	3 350	115	11 500	3 500	120	12 000	3 650	125	12 500	3 800
130	13 000	3 950	135	13 500	4 100	140	14 000	4 250	145	14 500	4 400
150	15 000	4 550	155	15 500	4 700	160	16 000	4 900	165	16 500	5 050
170	17 000	5 200	175	17 500	5 350	180	18 000	5 500	185	18 500	5 650
190	19 000	5 800	195	19 500	5 950	200	20 000	6 100	205	20 500	6 250
210	21 000	6 400	215	21 500	6 550	220	22 000	6 700	225	22 500	6 850
230	23 000	7 000	235	23 500	7 150	240	24 000	7 300	245	24 500	7 450
250	25 000	7 600	255	25 500	7 750	260	26 000	7 900	265	26 500	8 100
270	27 000	8 250	275	27 500	8 400	280	28 000	8 550	285	28 500	8 700
290	29 000	8 850				300	30 000	9 150			
310	31 000	9 450				320	32 000	9 750			
330	33 000	10 050				340	34 000	10 350			
350	35 000	10 650				360	36 000	10 950			
370	37 000	11 300				380	38 000	11 600			
390	39 000	11 900				400	40 000	12 200			
410	41 000	12 500				430	43 000	13 100			
450	45 000	13 700				470	47 000	14 350			
490	49 000	14 950				510	51 000	15 550			
530	53 000	16 150				550	55 000	16 750			
570	57 000	17 350				590	59 000	18 000			
610	61 000	18 600				630	63 000	19 200			
650	65 000	19 800									

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**ENR 1.8 REGIONAL SUPPLEMENTARY PROCEDURES (Doc. 7030)**

**1. General**

- 1.1 Regional supplementary procedures are applied in accordance with ICAO Doc. 7030/4, Regional Supplementary Procedures.

**2. Implementation of 8.33 kHz channel spacing**

**2.1 General**

- 2.1.1 In Malta the European Regional Supplementary Procedures are applied in accordance with ICAO Doc 7030/4-EUR.
- 2.1.2 Mandatory Carriage of 8.33 kHz channel spacing radio equipment is required for aircraft operating within the Maltese FIR after 01 Jan 2018. The relevant standards for 8.33 kHz channel spacing radio equipment are contained in ICAO Annex 10 Volume III.

**2.2 Exemptions**

- 2.2.1 State aircraft are exempt from the mandatory carriage of 8.33 kHz channel spacing equipment and Malta ATS will continue to provide air traffic services to these flights on the designated 25 kHz frequencies.
- 2.2.2 Local GA (VFR/IFR) aircraft operating flights within the TMA are exempt from the mandatory carriage of 8.33 kHz channel spacing equipment and Malta ATS will continue to provide air traffic services to these flights on the designated 25 kHz frequencies.

**3. Carriage of ACAS II (TCAS II version 7.1) equipment**

**3.1 ACAS II (TCAS II version 7.1)**

- 3.1.1 The following turbine-powered aeroplanes transiting within the Malta FIR shall be equipped with collision avoidance logic version 7.1 of ACAS II:
- a. Aeroplanes with a maximum certified take-off mass exceeding 5700kgs;
  - b. Aeroplanes authorized to carry more than 19 passengers.
- 3.1.2 Aircraft not referred to in point 3.1.1 which are equipped on a voluntary basis with ACAS II shall have collision avoidance logic version 7.1.

**3.2 Exemptions from carriage requirements of ACAS II logic version 7.1**

- 3.2.1 Equipage exemptions from ACAS II (TCAS II 7.1), may apply in certain cases. Exemption requests must be requested directly from the Civil Aviation Directorate of Malta at least ten working days before the planned operation.

**3.2.2 Delivery and maintenance flights**

- 3.2.2.1 An ACAS II exemption may be approved for a specific aircraft not equipped with ACAS II, to fly in the airspace of Malta for the purpose of aircraft delivery or aircraft maintenance.
- 3.2.2.2 This ACAS II exemption is applicable to:
- a. aircraft newly manufactured within ECAC Member States, which are not fitted with ACAS II. These aircraft will be permitted to transit on direct flights only, out of ECAC Member States' airspace to regions where the carriage and operation of ACAS II is not required; and
  - b. direct flights by aircraft, which are not fitted with ACAS II, from outside ECAC Member States, for the purpose of maintenance and engineering at facilities located within the ECAC Member States.

*Note: This ACAS II delivery or maintenance flight exemption is not available for those flights seeking only to transit through the airspace of Malta.*

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**3.2.3      *Test flights***

- 3.2.3.1      An ACAS II exemption may also be approved for a specific aircraft not equipped with ACAS II, to fly in the airspace of Malta for the purpose of conducting a test flight.

**4.            *Implementation of Reduced Vertical Separation Minimum (RVSM)***

- 4.1            The airspace within the Malta UIR between FL290 and FL410 inclusive, as described in ENR 2.1, is RVSM airspace.

- 4.2            Within this airspace, the vertical separation minimum shall be:

- a.          1000ft between RVSM approved aircraft;
- b.          2000ft between:
  - i.          non-RVSM approved aircraft and any other aircraft operating within the RVSM airspace;
  - ii.        formation flights of State aircraft and any other aircraft operating within the RVSM airspace; and
  - iii.        an aircraft experiencing a communications failure in flight and any other aircraft, when both aircraft are operating within the RVSM airspace.

- 4.3            When an aircraft operating in RVSM airspace encounters wake turbulence, a report should be filed by completing the appropriate Wake Turbulence Report Form.

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## ENR 1.9 AIR TRAFFIC FLOW MANAGEMENT AND AIRSPACE MANAGEMENT

### 1. Introduction

- 1.1 Air Traffic Flow Management (ATFM) is an ATM service established with the objective of contributing to a safe, orderly and expeditious flow of air traffic by ensuring that ATC capacity is utilised to the maximum extent possible, and that the traffic volume is compatible with the monitoring values declared by the appropriate ATS authority.
- 1.2 ATFM has been evolving towards the integration of capacity management which is gradually developing into the new concept of Air traffic Flow and Capacity Management (ATFCM).
- 1.3 The emphasis on ATFCM is on balancing the management of Capacity and Demand, planned strategically and applied tactically as a result of physical airport or airspace limitations. ATFCM will be the primary means of ensuring flight punctuality and efficiency, whilst maintaining or improving safety.

### 1.4 *The three phases of ATFCM service:*

- 1.4.1 **Strategic Flow Management** takes place seven days or more prior to the day of operation and includes research, planning and coordination activities. This phase consists of analysing the evolution of the forecast demand and the identification of potential new problems and in evaluating possible solutions. The outputs of this phase are the capacity plan for the following year, the Route Allocation Plans and sets of other plans that can be activated as necessary during the next phases. (e.g. contingency)
- 1.4.2 **Pre-Tactical Flow Management** is applied during six days prior to the day of operation and consists of planning and coordination activities. This phase analysis and decides on the best way to manage the available capacity resources and on the need for implementation of flow measures (regulations or routings). The output is the ATFCM Daily Plan (ADP) published via ATFCM Notification Message (ANM) and Network News.
- 1.4.3 **Tactical Flow Management** is applied on the day of the operation. This phase updates the daily plan according to the actual traffic and capacity. The management of the traffic is made through slot allocation and/or ad-hoc re-routing.

### 2. General

- 2.1 The overall authority for the provision of Air Traffic Flow Management in the Malta FIR/UIR is delegated to the EUROCONTROL Network Manager (NM).

### 3. Responsibilities of the Network Manager (NM)

The responsibilities of the NM are:

- a. to ensure traffic flow does not exceed the stated capacity of the sectors in the Malta ACC; and
  - b. to ensure that ATFM measures, when necessary, are applied in such a way as to reduce, as far as possible, the penalties to Aircraft Operators (AO).
- 3.1 In order to achieve the above objectives the NM applies procedures that are agreed internationally and published in the corresponding EUROCONTROL NM documentation.
- 3.2 The NM procedures within the Malta FIR/UIR have the same status as procedures explicitly published in this AIP.

### 4. Responsibilities of the Air Traffic Services

- 4.1 A Flow Management Position is provided in the Malta ACC to liaise between ATC, aircraft operators and the NM.
- 4.2 Malta ATC is responsible for monitoring flights' compliance with departure slots (CTOT) issued by the NM. In accordance with the provision of the Regional Supplementary Procedures, Europe (ICAO Doc. 7030) and the ICAO ATFM Handbook Doc. 003, flights that do not adhere to their slot shall be denied start-up clearance. However, Malta ATC shall make all efforts to enable departing flights to comply with the slot.

## **5. Responsibilities of Aircraft Operators**

- 5.1 Aircraft operators shall ensure that they adhere to the following:
- general ATFM procedures including flight plan filing and message exchange requirements;
  - strategic ATFM measures, e.g. Route Availability Document (RAD);
  - current ATFM measures, e.g. specific measures applicable on the day of operation, promulgated by ATFM Notification Messages (ANM);
  - departure slots (CTOT) issued by the NM; and
  - the correct procedure to be followed to obtain approval for STS/ATFMX.

## **6. ATFM exemption procedures**

- 6.1 Since the introduction of the NM, it has been possible for flight plan originators to obtain exemptions from ATFM restrictions for certain flights through the use of STS/ indicators in Item 18 of the ICAO FPL.
- 6.2 The following procedures shall be applied by flight plan originators:
- the insertion of STS/ indicator in Item 18 of the FPL will identify that a flight may require special handling. This indicator is for use by all parties that may have to handle the flight;
  - the current list of STS/ indicators recognized for ATFM purposes comprises STS/MEDEVAC; STS/ HEAD; STS/SAR and STS/ATFMX. These STS indicators are afforded automatic exemption from ATFM measures; and
  - STS/ATFMX may only be used if that particular flight has received specific approval from the State concerned for processing such requests and is additional to any other special handling notification that may be required to be shown for ATC purposes. Such flights must provide specific authorization documentation in support of their request.
- 6.3 A flight using STS/HUM; STS/HOSP; STS/STATE will no longer automatically qualify for exemption from ATFM measures. These indicators will simply identify a flight requiring "special handling" by ATC but they will have no special significance for ATFM purposes.

## **7. Procedure for requesting the use of STS/ATFMX**

- 7.1 A flight plan originator seeking approval to insert STS/ATFMX for a flight departing from Malta shall obtain prior permission at least two hours in advance of the EOBT from the:

Duty Management Officer  
Transport Malta  
Civil Aviation Directorate  
Malta Transport Centre  
Pantar Road  
Lija, LJA 2021  
Malta

Phone: (356) 79 24 52 02 (Mobile)

Phone: (356) 25 55 56 53 (Office)

Email: [dutyofficer.cad@transport.gov.mt](mailto:dutyofficer.cad@transport.gov.mt)

Email: [civil.aviation@transport.gov.mt](mailto:civil.aviation@transport.gov.mt)

- 7.2 The appropriate documentation has to be submitted as evidence in support of the request, at a later stage, if urgency so requires. Any abuse not supported by evidence may be sanctioned.

## **8. ATFM documentation**

- 8.1 The general ATFM procedures which apply throughout the ICAO European Region are published in the ICAO Doc. 7030, Regional Supplementary Procedures – Europe and in the ICAO ATFM Handbook – EUR Doc. 003.
- 8.2 Detailed NM procedures can be found in the ATFM Users Manual published by EUROCONTROL.



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**9. Malta FMP**

9.1 The Malta FMP established in the Malta ACC, is available H24 on:

Malta Air Traffic Services Ltd.  
Gate No. 4  
Malta International Airport  
Triq tal-Isqof  
L-Imqabba, MQB9057  
Malta  
Phone: (356) 21 23 46 23  
Phone: (356) 22 35 55 20  
Phone: (356) 22 35 53 51  
Fax: (356) 22 35 54 11  
AFS: LMMMZQZX

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## ENR 1.10 FLIGHT PLANNING

### 1. General procedures

- 1.1 The procedures used for flight planning are in accordance with the following ICAO documents and EU Regulations:

*Annex 2 – Rules of the Air*

*Doc. 4444 – Air Traffic Management - PANS ATM*

*Doc. 7030/4 – Regional Supplementary Procedures - EUR*

ATFCM Users Manual

Integrated Initial Flight Plan Processing System (IFPS) Users Manual

EU Reg 923/2012

### 1.2 *Filing a flight plan (VFR and IFR flights)*

- 1.2.1 An ICAO flight plan must be filed for all IFR flights planning to operate in the Malta CTA.

- 1.2.2 An ICAO flight plan must be filed for all VFR flights:

- a. with departure or destination LMML which will cross the Malta FIR boundary:
- b. with departure LICD to LMML or departure LMML to LICD
- c. with departure and destination LMML and intending to operate outside the lateral limits of the Malta TMA
- d. planned to operate at night, if leaving the Luqa CTR

### 1.3 *Procedures for the submission of a flight plan*

#### 1.3.1 *Adherence to Airspace Utilization Rules and Availability*

No flight plans shall be filed via the airspace of LMMM CTA deviating from the State restrictions defined within the Route Availability Document (RAD). This common European reference document contains all airspace utilisation rules and availability for LMMM FIR/UIR and any reference to them shall be made via:

URL: <https://www.nm.eurocontrol.int/RAD/index.html>

- 1.3.2 Normally, flight plans should be filed on the ground at least 60 minutes before clearance to start up is requested. For flights subject to Air Traffic Flow Management (ATFM) measures, a minimum of three hours before Estimated Off Block Time is required for flight plan submission.

- 1.3.3 A written flight plan, which can be filed through the Malta AIS reporting office located at the Arrivals Hall at the Malta International Airport, must be submitted on the ICAO Model Flight Plan Form (Doc. 4444, Appendix 2). The AIS personnel can be contacted directly from the AIS unmanned office from the point to point telephone by dialling 47.

AIS staff can also be contacted on the direct telephone number 22355543.

Flight plans can also be sent to the AIS office either by email [aim@maltats.com](mailto:aim@maltats.com) or by fax 22355332.

The AIS unit may assist in compiling the flight plan details and checking them. However, the ultimate responsibility for filing an accurate flight plan rests with the pilot or the operator.

- 1.3.4 If a pilot lands at an aerodrome other than the destination specified in the flight plan, the pilot or operator must ensure that the ATS Unit at the original destination is informed within 30 minutes of the flight planned ETA, to avoid unnecessary action being taken by the Alerting Services.

## **2. Addressing of VFR flight plans**

- 2.1 In addition to addressing a VFR flight plan to the destination aerodrome, and when applicable the appropriate FIRs en-route, the flight plan must also be addressed to Malta ACC on AFTN address LMMMZQZX and to the Malta AIS unit on AFTN address LMMMZPZX.

## **2.2 VFR flight plans which portion(s) of flight operated as IFR**

IFPS is the only source for the distribution of IFR/General Air Traffic (GAT) flight plans and associated messages within the IFPS Zone (IFPZ). Although IFPS handles IFR flight plans, it will not process the VFR portions of any mixed VFR/IFR flight plan. Therefore, in order to ensure that all relevant ATS units are included in the flight plan message distribution, pilots or operators should ensure that whenever a flight plan contains portions of the flight operated under VFR, in addition to IFR, the FPL must be addressed to the following addressees:

- a. IFPS;
- b. aerodrome of departure;
- c. aerodrome of destination;
- d. all FIRs that the flight will route through as VFR; and
- e. any additional addressees specifically required by State or aerodrome authorities.

## **2.3 Submission Time Parameters**

VFR flight plans should be submitted to the Malta AIS unit located at the Malta International Airport at least 60 minutes before clearance to start up or taxi is requested. The pilot is then responsible for ensuring that the airborne time of the flight is passed to the Malta AIS unit. The Malta AIS unit will ensure that the departure message is sent to the appropriate addressees. Failure to pass the airborne time will result in the flight plan remaining inactive. Consequently, this could result in the destination aerodrome not being aware that alerting action should be taken.

## **3. IFR flight plans**

### **3.1 General**

- 3.1.1 Malta is a participating State in the Integrated Initial Flight Plan Processing System (IFPS), which is an integral part of the EUROCONTROL Centralized Air Traffic Flow Management (ATFM) system. The IFPS is the sole source for distribution of IFR/General Air Traffic (GAT) flight plan information to ATS units within the participating States located in the IFPS Zone (IFPZ).
- 3.1.2 IFPS comprises two IFPS Units (IFPU) sited within the EUROCONTROL facilities at Haren, Brussels and Bretigny, Paris. The IFPS Zone (IFPZ) is divided into two separate areas, each IFPU having a primary responsibility for one area and a secondary role, for contingency purposes, for the other. All IFR/GAT flight plans and associated messages must be addressed to both IFPUs. The primary IFPU will process the flight plan, or associated message, whilst the other will hold both the raw and processed data, to be used in the event of a failure of the primary unit. Following successful processing, the flight plan will be delivered, at the appropriate time, to all the ATS unit addressees on the flight profiled route within the IFPZ.
- 3.1.3 IFPS will not handle VFR flight plans or Operational Air Traffic (OAT) flights. However, it will process the GAT portion(s) of a mixed OAT/GAT flight plan and similarly the IFR portion(s) of a VFR/IFR flight plan.
- 3.1.4 Full details of the procedures relating to IFPS and ATFM are contained within the relevant sections of the IFPS Users Manual and the ATFCM Users Manual which are available from <https://www.eurocontrol.int/network-operations>.

### **3.2 Filing of flight plans**

- 3.2.1 Pilots and operators are ultimately responsible for the complete filing of their IFR/GAT flight plans and associated messages. This includes compilation (including addressing), accuracy and submission of flight plans and also for the reception of an Acknowledgement (ACK) message from IFPS.

3.2.2 Pilots or operators without the facilities to file directly with IFPS and any other non-IFPS States affected by the flight should make arrangements to file their IFR/GAT flight plans through the Malta AIS unit located at the Malta International Airport.

3.2.3 Flight plans for flights subject to ATFM measures should be filed a minimum of three hours before Estimated Off Block Time (EOBT). Flight plans for all other flights should be filed a minimum of 60 minutes before EOBT.

### 3.3 *Addressing of IFR flight plans*

3.3.1 IFR/GAT flight plans and associated messages, for flights conducted wholly within the IFPS Zone, must address these messages only to the two IFPUs. The individual IFPU addresses are:

Haren	Bretigny
AFTN:EUCHZMFP	AFTN:EUCBZMFP
SITA: BRUEP7X	SITA: PAREP7X

3.3.2 Pilots and operators of IFR/GAT flights, which will enter and/or exit the IFPZ, must ensure that the flight plans and associated messages are addressed to the two IFPU addresses indicated in paragraph 3.3.1 above, and also to the appropriate ATS units responsible for the flight outside the IFPZ. The procedure described in paragraph 3.3.3 below, is the preferred method of addressing in such cases.

3.3.3 The purpose of the re-addressing function is to ensure consistency between messages distributed both within and outside the IFPZ. This consistency is achieved by ensuring that data is not distributed to external addressees until it is successfully processed by IFPS. Any additional addressees to be included should be inserted after the Originator Information line and immediately before the open bracket, which indicates the beginning of the message text.

### 3.4 *IFR flight plans with portion(s) of flight operated as VFR*

3.4.1 IFPS is the only source for the distribution of IFR/General Air Traffic (GAT) flight plans and associated messages within the IFPS Zone (IFPZ). Although IFPS handles IFR flight plans, it will not process the VFR portions of any mixed VFR/IFR flight plan. Therefore, in order to ensure that all relevant ATS units are included in the flight plan message distribution, pilots or operators should ensure that whenever a flight plan contains portions of the flight operated under VFR, in addition to IFR, the FPL must be addressed to the following addressees:

- a. IFPS;
- b. aerodrome of departure;
- c. aerodrome of destination;
- d. all FIRs that the flight will route through as VFR; and
- e. any additional addressees specifically required by State or aerodrome authorities.

## 4. **Compilation and submission of flight plans**

4.1 The compilation and submission of filed Flight Plans (FPL) and Repetitive Flight Plans (RPL) must be in accordance with the procedures specified in ICAO Doc. 4444 – PANS ATM, ICAO Doc. 7030 – EUR Regional Supplementary Procedures and the EUROCONTROL IFPS Users Manual.

## 5. **Authorisation for special flights**

5.1 Special flights of a specific nature (such as survey, scientific research flights, etc.) may be exempted from the requirement to submit a flight plan. A request for such flights to be conducted in the Malta FIR/UIR should be submitted, in writing, to:

Director General for Civil Aviation  
Transport Malta  
Civil Aviation Directorate  
Malta Transport Centre  
Pantar Road  
Lija, LJA 2021  
Malta

5.2 Such requests should be made as early as possible giving details including:

- a. aircraft type and identification;
- b. purpose of flight;
- c. flight rules;
- d. intended area in which the flight is to be conducted;
- e. the requested level or level bands;
- f. planned time and date of flight; and
- g. operator details.

5.3 Such special flights may be conducted within Maltese Territorial Waters and the Exclusive Economic Zone after a written authorisation from the Director General (Civil Aviation) has been granted to the aircraft operator.

**ENR 1.11 ADDRESSING OF FLIGHT PLAN MESSAGES****1. General**

1.1 Flight movement messages relating to traffic into or via the Malta FIR/UIR shall be addressed as follows:

Note: Flight movement messages in this context comprise flight plan messages, amendment messages relating thereto and flight plan cancellation messages (ICAO PANS-ATM, Doc. 4444, refers).

Category of flight	Route	Message address
1	2	3
All IFR flights departing from LMML with destination within the IFPS Zone	All routes	EUCHZMFP EUCBZMFP
All IFR flights departing from LMML with destination outside the IFPS Zone	All routes	EUCHZMFP EUCBZMFP
All IFR flights with destination LMML	All routes	EUCHZMFP EUCBZMFP
All IFR flights overflying LMMMFIR	All routes	EUCHZMFP EUCBZMFP
All VFR flights overflying LMMMFIR	All routes	LMMMZQZX LMMMZFZX
All international VFR flights with destination or departure LMML	All routes	LMMMZQZX LMMMZPZX LMMMZFZX
All VFR flights with departure or destination LMML intending to operate outside the lateral limits of the Malta TMA	All routes	LMMMZQZX LMMMZPZX LMMMZFZX
Departure or destination LMML or LICD	All routes	LMMMZQZX LMMMZPZX

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**ENR 1.12 INTERCEPTION OF CIVIL AIRCRAFT**

**1. General**

- 1.1 In the event that interception of civil aircraft over the territorial waters of Malta has to be carried out, the procedures described in EU Reg 923/2012 SERA, and the ICAO procedures described in ICAO Annex 2 — *Rules of the Air* and ICAO PANS-ATM Doc. 4444 will be followed. For this purpose, Article 3 (1) of the Territorial Waters and Contiguous Zone Act (Cap. 226) states that “the territorial waters of Malta shall be all parts of the open sea within twelve nautical miles of the coast of Malta measured from low-water mark on the method of straight baselines joining appropriate points”.

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## ENR 1.13 UNLAWFUL INTERFERENCE

### 1. General

- 1.1 An aircraft which is being subjected to unlawful interference shall endeavour to set the transponder to Code 7500 and notify the appropriate ATS unit of, any significant circumstances associated therewith and any deviation from the current flight plan necessitated by the circumstances, in order to enable the ATS unit to give priority to the aircraft and to minimise conflict with other aircraft.
- 1.2 If an aircraft is subjected to unlawful interference, the pilot-in-command shall attempt to land as soon as practicable at the nearest suitable aerodrome or at a dedicated aerodrome assigned by the competent authority unless considerations aboard the aircraft dictate otherwise.

### 2. Procedures

- 2.1 The following procedures are intended as guidance for use by aircraft when unlawful interference occurs and the aircraft is unable to notify an ATS unit of this fact.
- 2.2 Unless considerations aboard the aircraft dictate otherwise, the pilot-in-command should attempt to continue flying on the assigned track and at the assigned cruising level at least until notification to an ATS unit is possible or the aircraft is within radar coverage.
- 2.3 When an aircraft subjected to an act of unlawful interference must depart from its assigned track or its assigned cruising level without being able to make radiotelephony contact with ATS, the pilot-in-command should, whenever possible attempt to broadcast warnings on the VHF emergency frequency and other appropriate frequencies, unless considerations aboard the aircraft dictate otherwise. Other equipment such as onboard transponders, data links, etc. should also be used when it is advantageous to do so and circumstances permit.
- 2.4 Aircraft subject to unlawful interference shall proceed at a level which differs from the cruising levels normally used by IFR flights by:
  - a. 500ft in an area where vertical separation minimum of 1000ft is applied
  - b. 1000ft in an area where vertical separation minimum of 2000ft is applied.

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**ENR 1.14 AIR TRAFFIC INCIDENTS****1. Definition of an incident**

1.1 An incident is an occurrence, other than an accident, associated with the operation of an aircraft, which affects or could affect the safety of operation. The following types of incidents shall be reported and assessed:

- a. near collision;
- b. potential for collision or near collision; and
- c. ATM-specific occurrences.

**2. Definition of an air traffic incident**

2.1 An air traffic incident is an occurrence related to the provision of air traffic services, such as:

- a. aircraft proximity (AIRPROX);
- b. serious difficulty resulting in a hazard to aircraft caused, for example, by:
  - i. faulty procedures;
  - ii. non-compliance with procedures; or
  - iii. failure of ground facilities.

**3. Definition of aircraft proximity**

3.1 A situation of aircraft proximity is one in which, in the opinion of the pilot or the air traffic services personnel, the distance between aircraft, as well as their relative positions and speed, has been such that the safety of the aircraft involved may have been compromised.

3.2 Aircraft proximity is classified as follows:

- a. risk of collision – The risk classification of aircraft proximity in which serious risk of collision has existed;
- b. safety not assured – The risk classification of aircraft proximity in which the safety of the aircraft may have been compromised;
- c. no risk of collision – The risk classification of aircraft proximity in which no risk of collision has existed; and
- d. risk not determined – The risk classification of aircraft proximity in which insufficient information was available to determine the risk involved or inconclusive or conflicting evidence precluded such determination.

**4. Definition of AIRPROX**

4.1 The term AIRPROX is the code word used in an air traffic incident report to designate aircraft proximity.

4.2 Air traffic incidents are designated and identified in reports as follows:

Type	Designation
Air traffic incident	Incident
as (a) above	AIRPROX (aircraft proximity)
as (b) (i) and (ii) above	Procedure
as (b) (iii) above	Facility

## **5. Use of the Air Traffic Incident Report Form**

- 5.1 The Air Traffic Incident Report Form is intended for use:
- by a pilot for filing a report on an air traffic incident after arrival or for confirming a report made initially by radio during flight (if the form is available on board, this may be of use in providing a pattern for making the initial report in flight); and
  - by an ATS unit for recording an air traffic incident report received by radio, telephone or teleprinter (the form may be used as the format for the text of a message to be transmitted over the AFS network).

## **6. Initial report by pilots**

- 6.1 The following are the procedures to be followed by a pilot who is or has been involved in an incident:
- during flight, use the appropriate air/ground frequency for reporting an incident of major significance, particularly if it involves other aircraft, so as to permit the facts to be ascertained immediately; and
  - as promptly as possible after landing, submit a completed Air Traffic Incident Report Form in order to:
    - confirm a report of an incident made initially as in (a) above or for making the initial report on such an incident if it had not been possible to report it by radio; and
    - report an incident which did not require immediate notification at the time of occurrence.
- 6.2 An initial report made by radio should contain the following information:
- aircraft identification (item A of the Air Traffic Incident Report Form);
  - type of incident (item B of the Air Traffic Incident Report Form);
  - details of the incident (items C1(a), C1(b), C2(a), C2(b), C2(c), C2(d), C2(n), C3(a), C3(b), C3(c), C3(i), C4(a) and C3(b) of the Air Traffic Incident Report Form); and
  - miscellaneous (item D1(e) of the Air Traffic Incident Report Form).
- 6.3 If it was impossible to report the incident by radio, a report should be made by telephone, or other means, to the Malta ATC Supervisor, immediately after landing.

## **7. Confirmation report**

- 7.1 The pilot should complete the Air Traffic Incident Report Form supplementing the details of the initial reports as necessary. The confirmatory report on an incident of major significance initially reported by radio, or the initial report on any other incident, should be submitted within seven days to:

Director General for Civil Aviation  
Transport Malta  
Civil Aviation Directorate  
Malta Transport Centre  
Pantar Road  
Lija, LJA 2021  
Malta

- 7.2 Some operators may require pilots to submit confirmatory reports through their Company. This is acceptable provided that the report, signed either by the pilot or a responsible official of the Company, is forwarded as above.
- 7.3 In the absence of exceptional circumstance, official action on radio or telephone reports may cease after seven days unless the confirmatory report has been received.
- 7.4 A pilot leaving Malta for a period exceeding the specified seven days may transmit the confirmatory report to his Company through the AFTN. An incident report, being concerned with air safety, is acceptable for transmission as Class A traffic. On receipt of such a message, Company offices should complete the necessary Incident Report Form and submit it as indicated above without delay.

- 7.5 Pilots may also make use of the AFTN from a place abroad to make an initial incident report which cannot be passed by radio. In such a case, the AFTN message may be addressed either to the Company or direct to Malta ACC. The Company office receiving an initial incident report in this way should then report to Malta ACC by telephone or through the AFTN and follow the procedures in paragraph 7.4, above.
- 7.6 Adherence to these procedures will ensure expeditious and uniform handling of incident reports and enable incidents to be investigated thoroughly and remedial action to be taken where necessary.
- 7.7 Pilots should co-operate by ensuring that the fullest possible information is given in every case and by reporting only those incidents that can reasonably be considered to warrant investigation. Company officials concerned are asked to facilitate action on reports by prompt handling in strict accordance with the procedures described.
- 7.8 A pilot making an incident report should bear in mind that, if the official investigation indicates a prima facie offence under civil law, he/she may be required to give evidence at a Board of Inquiry or at any legal proceedings contemplated by law.
- 7.9 Incident reports will receive immediate co-ordinated action by the Civil Aviation Directorate – Transport Malta. When a report has been received direct from a pilot, the aircraft operator will, whenever practicable, be notified that the report has been made and is in hand. Additionally, on completion of official action on the report, the operator will be informed of the outcome and any remedial action taken.

## **8. Purpose of reporting and handling of the form**

- 8.1 The purpose of the reporting of aircraft proximity incidents and their investigation is to promote the safety of aircraft.
- 8.2 The purpose of the form is to provide investigating authorities with as complete information on an air traffic incident as possible and to enable them to report back, with the least possible delay, to the pilot or operator concerned, the result of the investigation of the incident and, if appropriate, the remedial action taken.

## **9. Assessment of reports and investigation**

- 9.1 The primary reason for investigation by the appropriate authority is to determine the cause of an incident, thereby leading to action to reduce the possibility of collisions. Any incident reported under the Mandatory Occurrence Report Scheme will initially be assessed by a team of experts duly appointed by the Director General (Civil Aviation) in order to determine the degree of risk involved in an aircraft proximity incident and whether the incident warrants further investigation.
- 9.2 In the event that further investigation is deemed necessary, the Director General (Civil Aviation) will appoint an Investigation Team that will investigate fully the incident and make any safety recommendations as appropriate.
- 9.3 Should the initial assessment show that the incident is a serious one, then the investigation of the incident will be carried out by the Chief Inspector of Accidents in accordance with LN135/2002, the Civil Aviation (Investigation of Air Accidents and Incidents) Regulations, 2002.
- 9.4 Once the investigation is concluded, pilots and controllers, or their respective companies, will be informed of the findings.

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**ENR 2 AIR TRAFFIC SERVICES AIRSPACE****ENR 2.1 FIR, UIR, TMA**

Name Lateral limits Vertical limits Class of airspace	Unit providing service	Call sign Languages Hours of service	Frequency (MHZ)
1	2	3	4
<b>MALTA FIR — LMMMFIR</b>			
363000N 0113000E — 363000N 0190000E — 342000N 0233500E — 342000N 0113000E — 363000N 0113000E.			130.975
		MALTA CONTROL	127.525
		ENG	122.775
		H24	123.625
Upper limit: FL195    Class C (within the lateral limits Lower limit: MEL    of ATS routes)	MALTA ACC		121.500 Emergency
		Malta FIS	
Upper limit: FL195    Class G (outside the lateral limits Lower limit: MSL    of ATS routes)		ENG (activated by NOTAM)	119.800
<b>MALTA UIR — LMMUIR</b>			
363000N 0113000E — 363000N 0190000E — 342000N 0233500E — 342000N 0113000E — 363000N 0113000E.			130.975
		MALTA CONTROL	127.525
Upper limit: FL660    Class C Lower limit: FL195	MALTA ACC	ENG	122.775
		H24	123.625
			121.500 Emergency
Upper limit: UNL    Class G Lower limit: FL660			

Name Lateral limits Vertical limits Class of airspace	Unit providing service	Call sign Languages Hours of service	Frequency (MHZ)
1	2	3	4
<b>MALTA ACC WEST SECTOR — LMMMWS</b>  The airspace within lateral limits:  342000N 0113000E - 363000N 0113000E - 363712N 0113000E - 364852N 0115757E - 371017N 0123259E - 372044N 0130131E - 372044N 0131127E - 370725N 0133912E - 370032N 0135852E - 365146N 0142334E 364837N 0143219E - 363000N 0142802E - 363000N 0160000E - 342000N 0170513E - 342000N 0113000E (excluding TMA/CTR)  Upper limit: FL195    Class C (within the lateral limits Lower limit: MEL    of ATS routes in LMMMFS)  Upper limit: FL195    Class D (above FL115 within the Lower limit: MEL    LIRRFIR excluding TMA/CTR)  Upper limit: FL195    Class E (below FL115 within the Lower limit: MEL    LIRRFIR excluding TMA/CTR)  Upper limit: FL660    Class C (within LMMMUIR) Lower limit: FL195  Upper limit: FL660    Class C (within LIRRUIR) Lower limit: FL195	MALTA ACC	MALTA CONTROL  ENG  H24	<b>130.975 Primary</b>  127.525 Backup  121.500 Emergency
<b>MALTA ACC EAST SECTOR — LMMME</b>  The airspace within lateral limits:  363000N 0190000E - 342000N 0233500E - 342000N 0170513E - 363000N 0160000E - 363000N 0190000E  Upper limit: FL195    Class C (within the lateral limits Lower limit: MEL    of ATS routes in LMMMFS)  Upper limit: FL660    Class C (within LMMMUIR) Lower limit: FL195	MALTA ACC	MALTA CONTROL  ENG  H24	<b>122.775 Primary</b>  123.625 Backup  121.500 Emergency

Name Lateral limits Vertical limits Class of airspace	Unit providing service	Call sign Languages Hours of service	Frequency (MHZ)
1	2	3	4
<b>MALTA TMA — LMMLTMA</b>  The airspace within lateral limits:  363000N 0133223E — 363000N 0153700E — 352906N 0153700E — arc of circle, 60NM radius centred on 355127.15N 0142838.78E (LMML ARP) — 351247N 0133223E — 363000N 0133223E.  Upper limit: FL195 Lower limit: 2000FT    Class C	LUQA APP	LUQA APPROACH  ENG  H24	<b>128.150</b> <b>Primary</b>  118.350 Backup  121.500 Emergency

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**ENR 2.2 OTHER REGULATED AIRSPACE****1. Delegation from Roma ACC to Malta ACC****1.1 General**

- 1.1.1 Italy and Malta have arranged, by bilateral agreement between their Air Navigation Service Providers, to transfer responsibility for providing ATS to all aircraft between MEL and FL660 in those areas of Rome FIR/UIR between the Rome/Malta FIR/UIR boundary and the line joining the points indicated in table 1.2 below.

**1.2 The area involved in the transfer of ATS responsibility**

<b>Airspace in Rome FIR/UIR with delegation of ATS to Malta ACC</b>			
<b>Lateral limits Vertical limits Class of airspace</b>	<b>Unit providing service</b>	<b>Call sign Languages Hours of service</b>	<b>Frequency (MHZ)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
363000N 0113000E — 363712N 0113000E — 364852N 0115757E — 371017N 0123259E — 372044N 0130131E — 372044N 0131127E — 370725N 0133912E — 370032N 0135852E — 365146N 0142334E — 364837N 0143219E — 363000N 0142802E — 363000N 0113000E	MALTA ACC	MALTA CONTROL  ENG  H24	130.975
Upper limit: FL660 Lower limit: FL195			127.525
Upper limit: FL195 Lower limit: FL115			121.500
Upper limit: FL115 Lower limit: MEL			Emergency
Class C			
Class D			
Class E			

**2. Free Route Airspace MALTA**

<b>Name Lateral limits Vertical limits Class of airspace</b>	<b>Unit providing service</b>	<b>Call sign Languages Hours of service</b>	<b>Frequency (MHZ)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>FRA MALTA Airspace</b>	MALTA ACC	MALTA CONTROL  ENG  H24	130.975
The airspace within lateral limits:			127.525
363000N 0190000E — 342000N 0233500E — 342000N 0113000E — 363000N 0113000E — 363712N 0113000E — 364852N 0115757E — 371017N 0123259E — 372044N 0130131E — 372044N 0131127E — 370725N 0133912E — 370032N 0135852E — 365146N 0142334E — 364837N 0143219E — 363000N 0142802E — 363000N 0190000E			122.775
			123.625
Upper limit: FL660 Lower limit: FL305			121.500
Class C (within LMMUIR and LIRRUIR)			Emergency
			284.500 UHF MIL (on request)

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**ENR 3      ATS ROUTES**

**ENR 3.1      Lower ATS routes**

Nil

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**ENR 3.2    Upper ATS routes**

Nil

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**ENR 3.3 RNAV ROUTES****1. Summary of RNAV Routes:**

Route	Page	Route	Page
<a href="#">L12</a>	<a href="#">ENR-3.3 - 2</a>	<a href="#">Z351</a>	<a href="#">ENR-3.3 - 52</a>
<a href="#">L20</a>	<a href="#">ENR-3.3 - 3</a>	<a href="#">Z352</a>	<a href="#">ENR-3.3 - 53</a>
<a href="#">L21</a>	<a href="#">ENR-3.3 - 4</a>	<a href="#">Z404</a>	<a href="#">ENR-3.3 - 54</a>
<a href="#">L30</a>	<a href="#">ENR-3.3 - 5</a>		
<a href="#">L31</a>	<a href="#">ENR-3.3 - 6</a>		
<a href="#">L144</a>	<a href="#">ENR-3.3 - 7</a>		
<a href="#">L874</a>	<a href="#">ENR-3.3 - 8</a>		
<a href="#">M1</a>	<a href="#">ENR-3.3 - 9</a>		
<a href="#">M9</a>	<a href="#">ENR-3.3 - 10</a>		
<a href="#">M215</a>	<a href="#">ENR-3.3 - 11</a>		
<a href="#">M395</a>	<a href="#">ENR-3.3 - 12</a>		
<a href="#">M600</a>	<a href="#">ENR-3.3 - 13</a>		
<a href="#">M620</a>	<a href="#">ENR-3.3 - 14</a>		
<a href="#">M621</a>	<a href="#">ENR-3.3 - 15</a>		
<a href="#">M622</a>	<a href="#">ENR-3.3 - 16</a>		
<a href="#">M726</a>	<a href="#">ENR-3.3 - 17</a>		
<a href="#">M727</a>	<a href="#">ENR-3.3 - 18</a>		
<a href="#">M732</a>	<a href="#">ENR-3.3 - 19</a>		
<a href="#">M739</a>	<a href="#">ENR-3.3 - 20</a>		
<a href="#">M740</a>	<a href="#">ENR-3.3 - 21</a>		
<a href="#">M742</a>	<a href="#">ENR-3.3 - 22</a>		
<a href="#">M871</a>	<a href="#">ENR-3.3 - 23</a>		
<a href="#">M978</a>	<a href="#">ENR-3.3 - 24</a>		
<a href="#">M979</a>	<a href="#">ENR-3.3 - 25</a>		
<a href="#">M980</a>	<a href="#">ENR-3.3 - 26</a>		
<a href="#">N4</a>	<a href="#">ENR-3.3 - 27</a>		
<a href="#">N45</a>	<a href="#">ENR-3.3 - 28</a>		
<a href="#">N46</a>	<a href="#">ENR-3.3 - 29</a>		
<a href="#">N47</a>	<a href="#">ENR-3.3 - 30</a>		
<a href="#">N163</a>	<a href="#">ENR-3.3 - 31</a>		
<a href="#">N573</a>	<a href="#">ENR-3.3 - 32</a>		
<a href="#">N982</a>	<a href="#">ENR-3.3 - 33</a>		
<a href="#">P3</a>	<a href="#">ENR-3.3 - 34</a>		
<a href="#">P8</a>	<a href="#">ENR-3.3 - 35</a>		
<a href="#">P32</a>	<a href="#">ENR-3.3 - 36</a>		
<a href="#">P33</a>	<a href="#">ENR-3.3 - 37</a>		
<a href="#">P126</a>	<a href="#">ENR-3.3 - 38</a>		
<a href="#">P134</a>	<a href="#">ENR-3.3 - 39</a>		
<a href="#">P158</a>	<a href="#">ENR-3.3 - 40</a>		
<a href="#">P167</a>	<a href="#">ENR-3.3 - 41</a>		
<a href="#">P623</a>	<a href="#">ENR-3.3 - 42</a>		
<a href="#">P624</a>	<a href="#">ENR-3.3 - 43</a>		
<a href="#">P868</a>	<a href="#">ENR-3.3 - 44</a>		
<a href="#">Q723</a>	<a href="#">ENR-3.3 - 45</a>		
<a href="#">Q789</a>	<a href="#">ENR-3.3 - 46</a>		
<a href="#">T297</a>	<a href="#">ENR-3.3 - 47</a>		
<a href="#">T299</a>	<a href="#">ENR-3.3 - 48</a>		
<a href="#">T340</a>	<a href="#">ENR-3.3 - 49</a>		
<a href="#">Y751</a>	<a href="#">ENR-3.3 - 50</a>		
<a href="#">Z333</a>	<a href="#">ENR-3.3 - 51</a>		

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodetic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L12 (RNAV 5)						
▲ MARON 370725N 0133911E (2)						
	156° 336°	40.4 NM	FL 660 FL 75	Odd		{C: FL195 - FL660} {D: FL105 - FL195} {E: FL75 - FL105}
▲ EKOLA 363000N 0135820E (3)						
	155° 335°	30.0 NM	FL 660 FL 95	Odd		{C}
△ GZO VOR/DME (GZO) 360214N 0141219E						
	156° 336°	40.6 NM	FL 660 FL 95	Odd		{C}
△ SUDIK 352429N 0143029E						
	151° 331°	72.2 NM	FL 660 FL 95	Odd		{C}
▲ LOTIN 342000N 0150959E (4)						
Route remark: Note: L12 is available for Southbound traffic only. (2) Roma ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY (4) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L20 (RNAV 5)						
▲ LORED	363000N 0153700E			(2)		
	257° 075°	203.6 NM	FL 660 FL 195	Even	Odd	{C}
▲ BASMO	354930N 0153700E			(3)		
Significant point remarks: (2) LIRR / LMMM UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM / DTTC UIR BDRY - (Malta ACC / Tunis ACC)						

Route [Route Usage Notes]						
Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L21 (RNAV 5)						
▲ LORED		363000N 0153700E			(2)	
	261° 080°	117.2 NM	FL 660 FL 195	Even	Odd	{C}
△ ASDAX		361550N 0131240E				
	259° 078°	84.0 NM	FL 660 FL 195	Even	Odd	{C}
▲ OMENI		360226N 0113000E			(3)	
Significant point remarks: (2) LIRR / LMMM UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM / DTTC UIR BDRY - (Malta ACC / Tunis ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L30 (RNAV 5)						
▲ OMENI	360226N 0113000E			(2)		
	087° 268°	83.3 NM	FL 660 FL 95	Odd	Even	{C}
△ NEVNA	360243N 0131255E					
	088° 268°	48.1 NM	FL 660 FL 95	Odd	Even	{C}
△ GOZO VOR/DME (GZO)	360214N 0141219E					
Significant point remarks: (2) DTTC / LMMM FIR/UIR BDRY (Tunis ACC / Malta ACC)						

Route [Route Usage Notes]						
Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L31 (RNAV 5)						
▲ LORED	363000N 0153700E			(2)		
	187° 007°	131.9 NM	FL 660 FL 195	Odd		{C}
▲ LOTIN	342000N 0150959E			(3)		
Route Remark: L31 is available for Southbound traffic only. Significant point remarks: (2) LIRR / LMMM UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						



[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L144 (RNAV 5)						
▲ NEVIK 350800N 0215740E (2)						
	267° 086°	165.4 NM	FL 660 FL 195	Even	Odd	{C}
△ KUTOS 350626N 0183538E						
	264° 080°	351.3 NM	FL 660 FL 195	Even	Odd	{C}
▲ RALAK 343125N 0113000E (3)						
Route Remarks: (2) LGGG / LMMM UIR BDRY - (Athinai ACC / Malta ACC) (3) LMMM / DTTC UIR BDRY - (Malta ACC / Tunis ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L874 (RNAV 5)						
▲ OMENI 360226N 0113000E (2)						
	093° 275°	201.8 NM	FL 660 FL 95	Odd	Even	{C}
△ GODAK 353816N 0153659E						
	095° 276°	82.8 NM	FL 660 FL 95	Odd	Even	{C}
△ RUDOG 352600N 0171731E						
	096° 276°	60.0 NM	FL 660 FL 95	Odd	Even	{C}
△ INBIN 351607N 0183000E						
	096° 278°	144.5 NM	FL 660 FL 95	Odd	Even	{C}
△ VANIX 344939N 0212327E						
Significant point remark: (2) DTTTC / LMMM FIR/UIR BDRY - (Tunis ACC / Malta ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M1 (RNAV 5)						
▲ ARLOS 343731N 0230000E (2)						
	254° 074°	77.9 NM	FL 660 FL 95	Even	Odd	{C}
▲ RASNO 342000N 0212758E (3)						
Significant point remarks: (2) LGGG / LMMM FIR/UIR BDRY - (Athinai ACC / Malta ACC) (3) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC)						

Route Designator {RNAV Type}							[Route Usage Notes]	
Significant Point Name		Significant Point Coordinates			Remarks			
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks		
				↓	↑			
M9 (RNAV 5)								
▲ OMENI		360226N 0113000E			(2)			
	100° 282°	86.2 NM	FL 660 FL 195	Odd	Even	{C}		
△ REPTA		354216N 0131317E						
	103° 284°	65.3 NM	FL 660 FL 195	Odd	Even	{C}		
△ SUDIK		352429N 0143029E						
	102° 284°	232.2 NM	FL 660 FL 195	Odd		{C}		
▲ BONAR		342000N 0190213E			(3)			
Route remark: The segment between SUDIK and BONAR is available for Southbound traffic only. Significant point remarks: (2) DTTC / LMMM UIR BDRY - (Tunis ACC / Malta ACC) (3) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC)								

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M215 (RNAV 5)						
▲ ADEXI 372044N 0130131E (2)						
	152° 332°	56.4 NM	FL 660 FL 195		Even	{C}
▲ UPLIT 363000N 0133223E (3)						
	154° 334°	142.0 NM	FL 660 FL 195		Even	{C}
▲ LUMED 342000N 0144203E (4)						
Route remark: M215 is available for Northbound traffic only. Significant point remarks: (2) Roma ACC / Malta ACC (3) LIRR / LMMM UIR BDRY (4) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M395 (RNAV 5)						
▲ SONAK	363712N 0113000E					(2)
	156° 336°	7.8 NM	FL 660 FL 195	Odd		{C}
▲ PEGIT	363000N 0113341E					(3)
	155° 336°	140.3 NM	FL 660 FL 195	Odd		{C}
▲ ABRAM	342000N 0123816E					(4)
Route remark: M395 is available for Southbound traffic only. Significant point remarks: (2) Tunis ACC / Malta ACC (3) LIRR / LMMM UIR BDRY (4) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M600 (RNAV 5)						
▲ LORED	363000N 0153700E			(2)		
	217° 037°	84.9 NM	FL 660 FL 195	Even	Odd	{C}
△ SUDIK	352429N 0143029E					
	222° 041°	89.6 NM	FL 660 FL 195		Odd	{C}
▲ SARKI	342000N 0131447E			(3)		
Route remark: The segment between SARKI and SUDIK is available for Northbound traffic only. Significant point remarks: (2) LIRR / LMMM UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M620 (RNAV 5)						
▲ TISAL 363000N 0174623E (2)						
	152° 332°	47.4 NM	FL 660 FL 95	Odd	Even	{C}
△ BINKO 354721N 0181147E						
	152° 332°	10.5 NM	FL 660 FL 95	Odd	Even	{C}
△ EMLAR 353754N 0181718E						
	152° 332°	24.1 NM	FL 660 FL 95	Odd		{C}
△ INBIN 351607N 0183000E						
	152° 332°	10.7 NM	FL 660 FL 95	Odd		{C}
△ KUTOS 350626N 0183538E						
	152° 332°	51.4 NM	FL 660 FL 95	Odd		{C}
▲ BONAR 342000N 0190213E (3)						
Route remark: The segment between EMLAR and BONAR is available for Southbound traffic only. Significant point remarks: (2) LIRR / LMMM FIR/UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC)						



Route Designator {RNAV Type}		[Route Usage Notes]				
Significant Point Name {RNAV Type}	Significant Point Coordinates Track MAGGeodesic DISTUpper limit / Lower limit			FL series ↓↑		Remarks {Airspace class} Remarks
M621 (RNAV 5)						
▲ ASKOT		363000N 0162705E			(2)	
	145° 325°	44.1 NM	FL 660 FL 95		Even	{C}
△ EVIRA		355253N 0165630E				
	145° 325°	31.9 NM	FL 660 FL 95		Even	{C}
△ RUDOG		352600N 0171731E				
	145° 325°	16.3 NM	FL 660 FL 95		Even	{C}
△ BEKNI		351215N 0172807E				
	145° 326°	61.6 NM	FL 660 FL 95		Even	{C}
▲ OLMAX		342000N 0180750E			(3)	
Route remark: M621 is available for Northbound traffic only. Significant point remarks: (2) LIRR / LMMM FIR/UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M622 (RNAV 5)						
▲ ADEXI 372044N 0130131E (2)						
	142° 322°	13.7 NM	FL 660 FL 165		Even	{C: FL195 - FL660} {D: FL165 - FL195}
▲ MABOX 370942N 0131139E						
	142° 323°	49.0 NM	FL 660 FL 155		Even	{C: FL195 - FL660} {D: FL155 - FL195}
▲ SOPIR 363000N 0134737E (3)						
	142° 322°	34.2 NM	FL 660 FL 95		Even	{C}
△ GOZO VOR/DME (GZO) 360214N 0141219E						
	124° 304°	76.9 NM	FL 660 FL 95		Even	{C}
△ DIBAK 351611N 0152800E						
	124° 304°	92.2 NM	FL 660 FL 95		Even	{C}
▲ INDOT 342000N 0165653E (4)						
Route remarks: Note 1: M622 is available for Northbound traffic only. Note 2: The segment between SOPIR and GZO is available Southbound on a tactical basic only when L12 is closed due to activation of LI R502 (Refer to AIP Italy). Significant point remarks: (2) Roma ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY (4) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC).						

Route Designator {RNAV Type}		[Route Usage Notes]				
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M726 (RNAV 5)						
▲ LONDI		372044N 0131127E			(2)	
	177° 357°	11.0 NM	FL 660 FL 75		Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL75 - FL105}
▲ MABOX		370942N 0131139E				
	177° 357°	25.8 NM	FL 660 FL 75		Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL75 - FL105}
▲ RATOK		364352N 0131209E				
	177° 358°	13.8 NM	FL 660 FL 75		Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL75 - FL105}
▲ MADIR		363000N 0131225E			(3)	
	176° 356°	7.3 NM	FL 660 FL 95		Even	{C}
△ TOVMA		362243N 0131233E				
	176° 356°	6.9 NM	FL 660 FL 95		Even	{C}
△ ASDAX		361550N 0131240E				
	177° 357°	13.1 NM	FL 660 FL 95		Even	{C}
△ NEVNA		360243N 0131255E				
	177° 357°	4.7 NM	FL 660 FL 95		Even	{C}
△ DEXOL		355801N 0131300E				
	177° 357°	15.8 NM	FL 660 FL 95		Even	{C}
△ REPTA		354216N 0131317E				
	177° 357°	13.9 NM	FL 660 FL 95		Even	{C}
△ DOKIK		352823N 0131332E				
	177° 357°	68.4 NM	FL 660 FL 95		Even	{C}
▲ SARKI		342000N 0131447E			(4)	
Route remark: M726 is available for Northbound traffic only. Significant point remarks: (2) Roma ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY (4) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M727 (RNAV 5)						
▲ SENTI 371017N 0123259E (2)						
	176° 356°	40.3 NM	FL 660 FL 75	Odd		{C: FL195 - FL660} {D: FL105 - FL195} {E: FL75 - FL105}
▲ KOLEX 363000N 0123458E (3)						
	175° 355°	45.0 NM	FL 660 FL 65	Odd		{C}
△ PETIP 354502N 0123708E						
	175° 355°	15.1 NM	FL 660 FL 65	Odd		{C}
△ LAMPEDUSA VOR/DME (LPD) 352959N 0123751E						
	177° 357°	25.1 NM	FL 660 FL 95	Odd		{C}
△ EDELI 350452N 0123800E						
	177° 357°	44.9 NM	FL 660 FL 95	Odd		{C}
▲ ABRAM 342000N 0123816E (4)						
Route remark: M727 is available for Southbound traffic only. Significant point remarks: (2) Roma ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY (4) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M732 (RNAV 5)						
▲ SENTI 371017N 0123259E (2)						
	127° 309°	23.9 NM	FL 660 FL 85	Odd	Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL85 - FL105}
▲ ROBIM 365453N 0125554E						
	128° 309°	17.1 NM	FL 660 FL 85	Odd	Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL85 - FL105}
▲ RATOK 364352N 0131209E						
	129° 309°	21.4 NM	FL 660 FL 85	Odd	Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL85 - FL105}
▲ UPLIT 363000N 0133223E (3)						
	128° 308°	42.5 NM	FL 660 FL 95	Odd	Even	{C}
△ GOZO VOR/DME (GZO) 360214N 0141219E						
	131° 312°	147.5 NM	FL 660 FL 95	Odd		{C}
▲ ELIMO 342000N 0162210E (4)						
Route remark: The segment between GZO and ELIMO is available for Southbound traffic only. Significant point remarks: (2) Roma ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY (4) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC)						

Route [Route Usage Notes]						
Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M739 (RNAV 5)						
▲ SONAK	363712N 0113000E			(2)		
	139° 319°	9.3 NM	FL 660 FL 195	Odd	Even	{C}
▲ ROLEV	363000N 0113723E			(3)		
	138° 319°	77.5 NM	FL 660 FL 195	Odd	Even	{C}
△ LAMPEDUSA VOR/DME (LPD)	352959N 0123751E					
	139° 320°	88.5 NM	FL 660 FL 195	Odd		{C}
▲ VARIG	342000N 0134350E			(4)		
Route remark: The segment between LPD and VARIG is available for Southbound traffic only. Significant point remarks: (2) Tunis ACC / Malta ACC (3) LIRR / LMMM UIR BDRY (4) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						

Route Designator {RNAV Type}		[Route Usage Notes]				
Significant Point Name	Significant Point Coordinates				Remarks	
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M740 (RNAV 5)						
▲ PANTELLERIA VOR/DME (PAN)		364852N 0115757E (2)				
	156° 336°	14.0 NM	FL 660 FL 85	Odd	Even	{C: FL195 - FL660} {D: FL85 - FL195}
▲ RUBRI		363554N 0120432E				
	156° 336°	6.4 NM	FL 660 FL 85	Odd	Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL85 - FL105}
▲ DOBIX		363000N 0120737E (3)				
	155° 335°	38.6 NM	FL 660 FL 65	Odd	Even	{C}
△ VERA		355417N 0122543E				
	155° 335°	11.2 NM	FL 660 FL 65	Odd	Even	{C}
△ LESMI		354355N 0123054E				
	156° 336°	15.1 NM	FL 660 FL 65	Odd	Even	{C}
△ LAMPEDUSA VOR/DME (LPD)		352959N 0123751E				
	154° 334°	76.3 NM	FL 660 FL 95		Even	{C}
▲ SARKI		342000N 0131447E (4)				
Route remark: The segment between SARKI and LPD is available for Northbound traffic only. Significant point remarks: (2) Roma ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY (4) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M742 (RNAV 5)						
▲ ADEXI 372044N 0130131E (2)						
	188° 008°	26.2 NM	FL 660 FL 95	Odd	Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL95 - FL105}
▲ ROBIM 365453N 0125554E						
	188° 008°	25.2 NM	FL 660 FL 95	Odd	Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL95 - FL105}
▲ NIBLO 363000N 0125032E (3)						
	187° 007°	45.9 NM	FL 660 FL 65	Odd	Even	{C}
△ LATNI 354450N 0124058E						
	187° 007°	15.1 NM	FL 660 FL 65	Odd	Even	{C}
△ LAMPEDUSA VOR/DME 352959N 0123751E (LPD)						
	221° 041°	80.8 NM	FL 660 FL 95	Even	Odd	{C}
▲ RALAK 343125N 0113000E (4)						
The segment between NIBLO and LPD is available for Southbound traffic only between FL65 - FL195. Significant point remarks: (2) Roma ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY (4) LMMM / DTTC FIR/UIR BDRY - (Malta ACC / Tunis ACC)						



[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M871 (RNAV 5)						
▲ SUBOK 363000N 0165126E (2)						
	105° 287°	110.1 NM	FL 660 FL 95	Odd	Even	{C}
△ ABNAT 355330N 0190000E						
	107° 288°	145.1 NM	FL 660 FL 95	Odd	Even	{C}
△ EVLIB 350158N 0214622E						
	108° 289°	65.2 NM	FL 660 FL 95	Odd	Even	{C}
▲ ARLOS 343731N 0230000E (3)						
Significant point remarks: (2) LIRR / LMMM FIR/UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM / LGGG FIR/UIR BDRY - (Malta ACC / Athinai ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M978 (RNAV 5)						
▲ SONAK 363712N 0113000E (2)						
	102° 282°	31.1 NM	FL 660 FL 155	Odd	Even	{C: FL195 - FL660} {D: FL155 - FL195}
▲ DOBIX 363000N 0120737E (3)						
	102° 283°	54.3 NM	FL 660 FL 95	Odd	Even	{C}
△ ASDAX 361550N 0131240E						
	103° 283°	50.1 NM	FL 660 FL 95	Odd	Even	{C}
△ GOZO VOR/DME (GZO) 360214N 0141219E						
	091° 272°	68.7 NM	FL 660 FL 95	Odd	Even	{C}
△ AGARI 355753N 0153700E						
	092° 272°	64.6 NM	FL 660 FL 95	Odd	Even	{C}
△ EVIRA 355253N 0165630E						
	092° 273°	61.3 NM	FL 660 FL 95	Odd	Even	{C}
△ BINKO 354721N 0181147E						
	093° 274°	100.6 NM	FL 660 FL 95	Odd	Even	{C}
△ ALIXA 353633N 0201449E						
	093° 273°	23.1 NM	FL 660 FL 95	Odd	Even	{C}
△ INKOP 353343N 0204258E						
	093° 273°	21.5 NM	FL 660 FL 95	Odd	Even	{C}
▲ DEMAG 353105N 0210912E (4)						
Significant point remarks: (2) Tunis ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY (4) LMMM / LGGG FIR/UIR BDRY - (Malta ACC / Athinai ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name {RNAV Type}	Significant Point Coordinates			Remarks		
	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M979 (RNAV 5)						
▲ SONAK		363712N 0113000E			(2)	
	113° 294°	17.1 NM	FL 660 FL 195	Odd	Even	{C}
▲ DINUX		363000N 0114920E			(3)	
	112° 293°	74.7 NM	FL 660 FL 195	Odd	Even	{C}
△ DEXOL		355801N 0131300E				
	115° 296°	71.4 NM	FL 660 FL 195	Odd	Even	{C}
△ SUDIK		352429N 0143029E				
	115° 296°	136.4 NM	FL 660 FL 195		Even	{C}
▲ INDOT		342000N 0165653E			(4)	
Route remark: The segment between INDOT and SUDIK is available for Northbound traffic only. Significant point remarks (2) Tunis ACC / Malta ACC (3) LIRR / LMMM UIR BDRY (4) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M980 (RNAV 5)						
▲ BASMO 354930N 0113000E (2)						
	081° 262°	45.4 NM	FL 660 FL 95	Odd	Even	{C}
△ VERAK 355417N 0122543E						
	082° 262°	38.5 NM	FL 660 FL 95	Odd	Even	{C}
△ DEXOL 355801N 0131300E						
	082° 263°	48.2 NM	FL 660 FL 95	Odd	Even	{C}
△ GOZO VOR/DME (GZO) 360214N 0141219E						
	106° 286°	72.8 NM	FL 660 FL 95	Odd	Even	{C}
△ GODAK 353816N 0153659E						
	111° 293°	185.6 NM	FL 660 FL 195	Odd		{C}
▲ BONAR 342000N 0190213E (3)						
Route remark: The segment between GODAK and BONAR is available for Southbound traffic only. Significant point remark: (2) DTTC / LMMM FIR/UIR BDRY - (Tunis ACC / Malta ACC) (3) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC)						

Route Designator {RNAV Type}		[Route Usage Notes]				
Significant Point Name	Significant Point Coordinates				Remarks	
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N4 (RNAV 5)						
▲ DOBIX		363000N 0120737E				(2)
	095° 276°	52.8 NM	FL 660 FL 195	Odd	Even	{C}
△ TOVMA		362243N 0131233E				
	096° 277°	183.5 NM	FL 660 FL 195	Odd	Even	{C}
△ EVIRA		355253N 0165630E				
	100° 281°	67.3 NM	FL 660 FL 95	Odd	Even	{C}
△ EMLAR		353754N 0181718E				
	101° 283°	167.8 NM	FL 660 FL 95	Odd	Even	{C}
△ AMIBO		345640N 0213627E				
	102° 282°	71.3 NM	FL 660 FL 95	Odd	Even	{C}
▲ ARLOS		343731N 0230000E				(3)
Significant point remark: (2) LIRR / LMMM FIR/UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM / LGGG FIR/UIR BDRY - (Malta ACC / Athinai ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N45 (RNAV 5)						
▲ BIRSA 350251N 0113000E (2)						
	078° 260°	149.1 NM	FL 660 FL 195	Odd	Even	{C}
△ SUDIK 352429N 0143029E						
	079° 260°	181.5 NM	FL 660 FL 195	Odd	Even	{C}
△ BINKO 354721N 0181147E						
	081° 261°	88.1 NM	FL 660 FL 245	Odd	Even	{C}
△ NIMAN 355552N 0195955E						
	081° 262°	11.3 NM	FL 660 FL 245	Odd	Even	{C}
▲ ROTAS 355650N 0201346E (3)						
Significant point remark: (2) DTTC / LMMM UIR BDRY - (Tunis ACC / Malta ACC) (3) LMMM / LGGG UIR BDRY - (Malta ACC / Athinai ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name		Significant Point Coordinates			Remarks	
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N46 (RNAV 5)						
▲ UPLIT		363000N 0133223E			(2)	
	099° 280°	169.0 NM	FL 660 FL 95	Odd	Even	{C}
△ EVIRA		355253N 0165630E				
Significant point remark: (2) LIRR / LMMM FIR/UIR BDRY						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N47 (RNAV 5)						
▲ RALAK 343125N 0113000E (2)						
	074° 255°	200.4 NM	FL 660 FL 195	Odd	Even	{C}
△ DIBAK 351611N 0152800E						
	073° 254°	137.0 NM	FL 660 FL 195	Odd	Even	{C}
△ BINKO 354721N 0181147E						
Significant point remark: (2) DTTC / LMMM UIR BDRY - (Tunis ACC / Malta ACC)						



[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N163 (RNAV 5)						
▲ PANTELLERIA DME/VOR (PAN)	364852N 0115757E			(2)		
	166° 346°	19.3 NM	FL 660 FL 195	Odd		{C}
▲ NUPMA	363000N 0120312E			(3)		
	165° 345°	133.2 NM	FL 660 FL 195	Odd		{C}
▲ ABRAM	342000N 0123816E			(4)		
Significant point remarks: (2) Roma ACC / Malta ACC (3) LIRR / LMMM UIR BDRY (4) LMMM UIR / HLLL FIR BDRY -- (Malta ACC / Tripoli ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N573 (RNAV 5)						
▲ NELDA 365146N 0142334E (2)						
	241° 060°	46.6 NM	FL 660 FL 195	Even		{C}
▲ UPLIT 363000N 0120312E (3)						
	243° 063°	17.6 NM	FL 660 FL 195	Even		{C}
△ TOVMA 362243N 0131233E						
	246° 065°	89.3 NM	FL 660 FL 195	Even		{C}
▲ BASMO 354930N 0113000E (4)						
Route remark: N573 is available for Westbound traffic only. Significant point remarks: (2) Roma ACC / Malta ACC (3) LIRR / LMMM UIR BDRY (4) LMMM / DTTC UIR BDRY - (Malta ACC / Tunis ACC)						

Route Designator {RNAV Type}							[Route Usage Notes]
Significant Point Name		Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
N982 (RNAV 5)							
▲ NELDA		365146N 0142334E			(2)		
	189° 009°	22.1 NM	FL 660 FL 75	Odd	Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL75 - FL105}	
▲ DIRKA		363000N 0141836E			(3)		
	188° 008°	28.2 NM	FL 660 FL 85	Odd	Even	{C}	
△ GOZO VOR/DME (GZO)		360214N 0141219E					
	202° 022°	61.9 NM	FL 660 FL 95		Even	{C}	
△ KOSET		350608N 0134025E					
	202° 022°	50.8 NM	FL 660 FL 95		Even	{C}	
▲ SARKI		342000N 0131447E			(4)		
Route remarks: The segment between SARKI and GZO is available for Northbound traffic only. Significant point remarks: (2) Roma ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY (4) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)							

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
P3 (RNAV 5)						
▲ VENIM	363000N 0172533E			(2)		
	136° 316°	56.7 NM	FL 660 FL 195	Odd		{C}
△ BINKO	354721N 0181147E					
Route remark: P3 is available for Southbound traffic only. Significant point remark: (2) LIRR / LMMM UIR BDRY - (Roma ACC / Malta ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
P8 (RNAV 5)						
▲ SUBOK	363000N 0165126E			(2)		
	120° 301°	77.7 NM	FL 660 FL 95	Odd	Even	{C}
△ BINKO	354721N 0181147E					
Significant point remark: (2) LIRR / LMMM FIR/UIR BDRY - (Roma ACC / Malta ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
P32 (RNAV 5)						
▲ NEVIK 350800N 0215740E (2)						
	233° 053°	11.1 NM	FL 660 FL 195	Even	Odd	{C}
△ EVLIB 350158N 0214622E						
	233° 053°	9.7 NM	FL 660 FL 195	Even	Odd	{C}
△ AMIBO 345640N 0213627E						
	234° 054°	12.8 NM	FL 660 FL 195	Even	Odd	{C}
△ VANIX 344939N 0212327E						
	234° 054°	53.8 NM	FL 660 FL 195	Even	Odd	{C}
▲ EKLIS 342000N 0202855E (3)						
Significant point remarks						
(2) LGGG / LMMM UIR BDRY - (Athina ACC / Malta ACC)						
(3) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC)						

Route [Route Usage Notes]						
Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
P33 (RNAV 5)						
▲ NEVIK	350800N 0215740E			(2)		
	203° 023°	53.9 NM	FL 660 FL 195	Even	Odd	{C}
▲ RASNO	342000N 0212758E			(3)		
Significant point remarks:						
(2) LGGG / LMMM UIR BDRY - (Athinai ACC / Malta ACC)						
(3) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name {RNAV Type}	Significant Point Coordinates			Remarks		
	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
P126 (RNAV 5)						
▲ DILIN 370032N 0135852E (2)						
	168° 348°	31.0 NM	FL 660 FL 115		Even	{C: FL195 - FL660} {D: FL115 - FL195}
▲ SUSOM 363000N 0140557E (3)						
	167° 347°	28.3 NM	FL 660 FL 95		Even	{C}
△ GOZO VOR/DME (GZO) 360214N 0141219E						
	156° 336°	40.6 NM	FL 660 FL 95		Even	{C}
△ SUDIK 352429N 0143029E						
	169° 349°	65.2 NM	FL 660 FL 95		Even	{C}
▲ LUMED 342000N 0144203E (4)						
Route remarks: Note 1: P126 is available for Northbound traffic only. Note 2: When P126 is not available due to the activation of LI R501/LI R502/LI TRA504A/LI TRA504B (refer to Italy AIP), alternative northbound routing will be via GZO - M622 - MABOX - M726 - PNZ, on a tactical basis only. Significant point remark: (2) Roma ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY (4) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						



[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
P134 (RNAV 5)						
△ LAMPEDUSA VOR/DME 352959N 0123751E (LPD)						
	104° 287°	223.8 NM	FL 660 FL 195		Even	{C}
▲ INDOT 342000N 0165653E (2)						
Route remark: P134 is available for Northbound traffic only. Significant point remark: (2) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC)						

Route Designator {RNAV Type}							[Route Usage Notes]							
Significant Point Name			Significant Point Coordinates				Remarks							
{RNAV Type}			Track MAG		Geodesic DIST		Upper limit / Lower limit		FL series		Controlling unit {Airspace class} Remarks			
									↓	↑				
P158 (RNAV 5)														
▲ SUBOK			363000N 0165126E				(2)							
			102° 284°		142.6 NM		FL 660 FL 95		Odd		Even		{C}	
△ ELKAN			355218N 0194139E											
			104° 284°		74.3 NM		FL 660 FL 95		Odd		Even		{C}	
▲ DEMAG			353105N 0210912E				(3)							
Significant point remarks: (2) LIRR / LMMM FIR/UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM / LGGG FIR/UIR BDRY - (Malta ACC / Athinai ACC)														

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
P167 (RNAV 5)						
▲ ORTAP 363000N 0182000E (2)						
	116° 297°	76.0 NM	FL 660 FL 195	Odd	Even	{C}
△ ELKAN 355218N 0194139E						
	117° 297°	31.2 NM	FL 660 FL 195	Odd	Even	{C}
△ ALIXA 353633N 0201449E						
	111° 292°	82.4 NM	FL 660 FL 195	Odd	Even	{C}
△ EVLIB 350158N 0214622E						
	108° 289°	65.2 NM	FL 660 FL 195	Odd	Even	{C}
▲ ARLOS 343731N 0230000E (3)						
Significant point remarks: (2) LIRR / LMMM UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM / LGGG UIR BDRY - (Malta ACC / Athinai ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name  {RNAV Type}	Significant Point Coordinates			Remarks		
	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
P623 (RNAV 5)						
▲ ADEXI 372044N 0130131E (2)						
	201° 021°	55.0 NM	FL 660 FL 195	Odd	Even	{C}
▲ KOLEX 363000N 0123458E (3)						
	202° 021°	129.9 NM	FL 660 FL 95	Odd	Even	{C}
▲ RALAK 343125N 0113000E (4)						
Significant point remarks: (2) Roma ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY (4) LMMM / DTTC FIR/UIR BDRY - (Malta ACC / Tunis ACC)						

Route Designator {RNAV Type}		[Route Usage Notes]				
Significant Point Name {RNAV Type}	Significant Point Coordinates Track MAG Geodesic DIST Upper limit / Lower limit			FL series ↓ ↑		Remarks {Airspace class} Remarks
P624 (RNAV 5)						
▲ LORED		363000N 0153700E			(2)	
	246° 065°	73.8 NM	FL 660 FL 95	Even	Odd	{C}
△ GOZO VOR/DME (GZO)		360214N 0141219E				
	245° 065°	35.0 NM	FL 660 FL 95	Even	Odd	{C}
△ OBITA		354849N 0133223E				
	245° 064°	16.8 NM	FL 660 FL 95	Even	Odd	{C}
△ REPTA		354216N 0131317E				
	245° 064°	16.3 NM	FL 660 FL 65	Even	Odd	{C}
△ ALAVI		353554N 0125448E				
	244° 064°	15.0 NM	FL 660 FL 65	Even	Odd	{C}
△ LAMPEDUSA VOR/DME (LPD)		352959N 0123751E				
	242° 061°	61.7 NM	FL 660 FL 95	Even	Odd	{C}
▲ BIRSA		350251N 0113000E			(3)	
Significant point remarks: (2) LIRR / LMMM FIR/UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM / DTTC FIR/UIR BDRY - (Malta ACC / Tunis ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
P868 (RNAV 5)						
▲ NIGAT 353924N 0113000E (2)						
	097° 277°	56.0 NM	FL 660 FL 95	Odd	Even	{C}
△ LAMPEDUSA VOR/DME 352959N 0123751E (LPD)						
	090° 271°	29.1 NM	FL 660 FL 95	Odd	Even	{C}
△ DOKIK 352823N 0131332E						
	090° 271°	62.9 NM	FL 660 FL 95	Odd	Even	{C}
△ SUDIK 352429N 0143029E						
	091° 273°	145.6 NM	FL 660 FL 95	Odd	Even	{C}
△ BEKNI 351215N 0172807E						
	092° 273°	55.5 NM	FL 660 FL 95	Odd	Even	{C}
△ KUTOS 350626N 0183538E						
	093° 274°	138.6 NM	FL 660 FL 95	Odd	Even	{C}
△ VANIX 344939N 0212327E						
	095° 275°	80.3 NM	FL 660 FL 95	Odd	Even	{C}
▲ ARLOS 343731N 0230000E (3)						
Significant point remarks: (2) DTTC / LMMM FIR/UIR BDRY - (Tunis ACC / Malta ACC) (3) LMMM / LGGG FIR/UIR BDRY - (Malta ACC / Athinai ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name  {RNAV Type}	Significant Point Coordinates			Remarks		
	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Q723 (RNAV 5)						
▲ LONDI 372044N 0131127E (2)						
	204° 024°	28.6 NM	FL 660 FL 75	Odd	Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL75 - FL105}
▲ ROBIM 365453N 0125554E						
	212° 032°	30.0 NM	FL 660 FL 75	Odd	Even	{C: FL195 - FL660} {D: FL105 - FL195} {E: FL75 - FL105}
▲ KOLEX 363000N 0123458E (3)						
Significant point remark: (2) Roma ACC / Malta ACC (3) LIRR / LMMM FIR/UIR BDRY						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Q789 (RNAV 5)						
▲ ORTAP	363000N 0182000E			(2)		
	109° 290°	87.6 NM	FL 660 FL 195	Odd	Even	{C}
△ NIMAN	355552N 0195955E					
	110° 290°	61.5 NM	FL 660 FL 195	Odd	Even	{C}
▲ DEMAG	353105N 0210912E			(3)		
Significant point Remarks: (2) LIRR / LMMM UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM / LGGG UIR BDRY - (Malta ACC / Athinai ACC)						



[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
T297 (RNAV 5)						
△ GOZO VOR/DME (GZO) 360214N 0141219E						
	190° 010°	104.9 NM	FL 660 FL 195	Odd		{C}
▲ VARIG 342000N 0134350E (2)						
Route remark: T297 is available for Southbound traffic only. Significant point remark: (2) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
T299 (RNAV 5)						
△ SUDIK		352429N 0143029E				
	208° 028°	75.0 NM	FL 660 FL 95	Odd		{C}
▲ VARIG		342000N 0134350E				(2)
Route remark: T299 is available for Southbound traffic only. Significant point remark: (2) LMMM / HLLL FIR/UIR BDRY - (Malta ACC/Tripoli ACC)						

Route Designator {RNAV Type}							[Route Usage Notes]
Significant Point Name	Significant Point Coordinates			Remarks			
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
T340 (RNAV 5)							
▲ LEVDI	363000N 0184932E			(2)			
	117° 298°	66.3 NM	FL 660 FL 195	Odd	Even	{C}	
△ NIMAN	355552N 0195955E						
	119° 299°	41.4 NM	FL 660 FL 195	Odd	Even	{C}	
△ INKOP	353343N 0204258E						
	117° 298°	60.8 NM	FL 660 FL 195	Odd	Even	{C}	
△ EVLIB	350158N 0214622E						
	108° 289°	65.2 NM	FL 660 FL 195	Odd	Even	{C}	
▲ ARLOS	343731N 0230000E			(3)			
Significant point remark: (2) LIRR / LMMM UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM / LGGG UIR BDRY - (Malta ACC / Athinai ACC)							

Route [Route Usage Notes] Designator {RNAV Type}						
Significant Point Name {RNAV Type}	Significant Point Coordinates			Remarks		
	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Y751 (RNAV 5)						
▲ LEVDI	363000N 0184932E			(2)		
	128° 309°	56.5 NM	FL 660 FL 195	Odd	Even	{C}
△ ELKAN	355218N 0194139E					
	134° 315°	126.9 NM	FL 660 FL 275	Odd		{C}
▲ RASNO	342000N 0212758E			(3)		
Route remark: The segment between ELKAN and RASNO is available for Southbound traffic only. Significant point remarks: (2) LIRR / LMMM UIR BDRY - (Roma ACC / Malta ACC) (3) LMMM UIR / HLLL FIR BDRY - (Malta ACC / Benghazi ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z333 (RNAV 5)						
△ SUDI K	352429N 0143029E					
	123° 303°	112.1 NM	FL 660 FL 95	Odd		{C}
▲ ELIMO	342000N 0162210E					(2)
Route remark: Z333 is available for Southbound traffic only. Significant point remark: (2) LMMM FIR/UIR / HLLL FIR BDRY - (Malta ACC / Tripoli ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z351 (RNAV 5)						
▲ BIRSA	350251N 0113000E			(2)		
	085° 266°	55.7 NM	FL 660 FL 195	Odd	Even	{C}
△ EDELI	350452N 0123800E					
	086° 266°	51.1 NM	FL 660 FL 195	Odd	Even	{C}
△ KOSET	350608N 0134025E					
	085° 267°	241.7 NM	FL 660 FL 195	Odd	Even	{C}
△ KUTOS	350626N 0183538E					
Significant point remark: (2) DTTTC / LMMM UIR BDRY - (Tunis ACC / Malta ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z352 (RNAV 5)						
▲ VENIM	363000N 0172533E					(2)
	107° 289°	147.0 NM	FL 660 FL 195	Odd		{C}
△ ALIXA	353633N 0201449E					
Route remark: Z352 is available for Southbound traffic only. Significant point remark: (2) LIRR / LMMM UIR BDRY - (Roma ACC / Malta ACC)						

[Route Usage Notes]						
Route Designator {RNAV Type}						
Significant Point Name	Significant Point Coordinates			Remarks		
{RNAV Type}	Track MAG	Geodesic DIST	Upper limit / Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z404 (RNAV 5)						
△ LAMPEDUSA VOR/DME 352959N 0123751E (LPD)						
	043° 223°	40.0 NM	FL 660 FL 65	Even		{C}
△ DEXOL 355801N 0131300E						
Route remark: Z404 is available for Northbound traffic only.						



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**ENR 3.4     HELICOPTER ROUTES**

Nil

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**ENR 3.5    OTHER ROUTES**

Nil

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**ENR 3.6 EN-ROUTE HOLDING**

<i>HLDG FIX/WPT Co-ordinates</i>	<i>INBD TR (°MAG)</i>	<i>Direction of Turn</i>	<i>MAX IAS (KT)</i>	<i>MNM-MAX HLDG LVL FL/FT (MSL)</i>	<i>TIME (MIN) or DIST OUBD</i>	<i>Controlling unit and Frequency</i>
1	2	3	4	5	6	7
BEVIM 353634.2N 0141958.9E	321	Left	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ
CR 355219N 0141855E	312	Left	210	2000FT - 5000FT	1 MIN or 4 NM (whichever is earlier)	Luqa TWR 135.100 MHZ Luqa APP (at higher altitudes) 128.150 MHZ
EVLAM 360547.0N 0145330.4E	232	Right	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ
FA 354730N 0142451E	132	Right	210	2000FT - 5000FT	1 MIN or 4 NM (whichever is earlier)	Luqa TWR 135.100 MHZ Luqa APP (at higher altitudes) 128.150 MHZ
GOZO / GZO Gozo VOR / DME 360214N 0141219E	109	Left	250	3000FT - FL140 FL150 - FL200	1 1.5	Luqa APP 128.150 MHZ
GUDER 360633.9N 0142352.7E	222	Right	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ
INTAM 355253.0N 0144807.6E	322	Right	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ
KEKOR 354613.6N 0144902.9E	222	Left	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ
LAMPEDUSA/LPD Lampedusa NDB 353002N 0123657E	As indicated in Italy AIP ENR 3.6-2 and LICD AD section		250	FL70 - FL140 FL150 - FL200	1 1.5	Malta ACC 130.975 MHZ
LAMPEDUSA/LPD Lampedusa VOR 352959N 0123751E			250	FL70 - FL140 FL150 - FL200	1 1.5	Malta ACC 130.975 MHZ
METIM 354935.9N 0140832.5E	141	Right	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ
MONAM 360557.3N 0143643.5E	142	Left	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ

## Notes:

(1) The en-route holdings may be used only when indicated as a clearance limit or after permission from ATC.

(2) CR and FA holdings will be authorised by ATC for integration of RNAV-capable aircraft operating in the circuit at LMML aerodrome.

<i>HLDG FIX/WPT Co-ordinates</i>	<i>INBD TR (°MAG)</i>	<i>Direction of Turn</i>	<i>MAX IAS (KT)</i>	<i>MNM-MAX HLDG LVL FL/FT (MSL)</i>	<i>TIME (MIN) or DIST OUBD</i>	<i>Controlling unit and Frequency</i>
1	2	3	4	5	6	7
NOLER  360835.8N 0140716.6E	132	Right	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ
OMBER  355509.6N 0141001.4E	042	Left	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ
SOFOR  353246.4N 0145140.0E	312	Right	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ
TIVOR  353452.2N 0143511.6E	042	Right	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ
VEKIM  353639.8N 0140318.1E	051	Right	230	3000FT MNM	6NM	Luqa APP 128.150 MHZ

Notes:

- (1) The en-route holdings may be used only when indicated as a clearance limit or after permission from ATC.  
(2) CR and FA holdings will be authorised by ATC for integration of RNAV-capable aircraft operating in the circuit at LMML aerodrome.

**ENR 4 RADIO NAVIGATION AIDS****ENR 4.1 RADIO NAVIGATION AIDS — EN-ROUTE**

Name of station (VOR/VAR)	ID	Frequency (CH)	Hours of operation	Coordinates	ELEV DME antenna	Remarks
1	2	3	4	5	6	7
GOZO VOR (decl.: 3° 02' E 2017)	GZO	115.7 MHZ	H24	360214.43N 0141218.95E	-	Transmitting power: 50 W Coverage: 250 NM FRA (I)
GOZO DME (decl.: 3° 02' E 2017)	GZO	115.7 MHZ (CH 104X)	H24	360214.43N 0141218.95E	-	Transmitting power: 1 KW Coverage: 250 NM
LAMPEDUSA VOR/DME (decl.: 2° E 2005)	LPD	108.6 MHZ (CH 23X)	H24	352958.94N 0123751.47E	27 M AMSL	FRA (I)
PANTELLERIA VOR/DME (decl.: 1° E 2005)	PAN	116.1 MHZ (CH 108X)	H24	364852N 0115757E	190 M AMSL	FRA (AD): LICD, LMML FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i> TOC Roma / Malta ACC

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**ENR 4.2    SPECIAL NAVIGATION SYSTEMS**

Nil

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**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 1	Coordinates 2	ATS route or other route 3	Remarks/Usage 4
ABNAT	355330N 0190000E	M871	FALCON AAR corridor FRA (I)
ABRAM	342000N 0123816E	M395, M727, N163	FIR BDRY FRA (X): ODD FL
ADEXI	372044N 0130131E	M215, M622, M742, P623	FRA (A): LICD FRA (D): LMML, LICD FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i> TOC Roma / Malta ACC
ADIPO	350700N 0140500E	N/A	AREA GANNET AREA ALBATROSS AREA PELICAN FRA (I)
AGARI	355753N 0153700E	M978	FRA (I) FRA (AD): LMML LMML SID
ALAVI	353554N 0125448E	P624	LICD STAR
ALIXA	353633N 0201449E	M978, P167, Z352	OSPREY AAR corridor FRA (I)
AMIBO	345640N 0213627E	N4, P32	FRA (I)
ARLOS	343731N 0230000E	M1, M871, N4, P167, P868, T340	FALCON AAR corridor OSPREY AAR corridor FIR BDRY FRA (EX): EVEN FL <i>for entering aircraft</i> , ODD FL <i>for exiting aircraft</i>
ASDAX	361550N 0131240E	L21, M726, M978	FRA (I)
ASKOT	363000N 0162705E	M621	FIR BDRY FRA (X): EVEN FL
BAGTU	350700N 0145500E	N/A	AREA GANNET FRA (I)
BASMO	354930N 0113000E	L20, M980, N573	FIR BDRY FRA (AD): LMML FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i>
BEKNI	351215N 0172807E	M621, P868	FRA (I)
BEVIM	353634.2N 0141958.9E	N/A	IAF / HF LMML RNP RWY05
BINKO	354721N 0181147E	M620, M978, N45, N47, P3, P8	FRA (I)
BIRSA	350251N 0113000E	N45, P624, Z351	FIR BDRY FRA (AD): LMML FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i>

Name-code designator 1	Coordinates 2	ATS route or other route 3	Remarks/Usage 4
BONAR	342000N 0190213E	M9, M620, M980	FIR BDRY FRA (X): ODD FL
DEMAG	353105N 0210912E	M978, P158, Q789	FIR BDRY FRA (EX): EVEN FL <i>for entering aircraft</i> , ODD FL <i>for exiting aircraft</i>
DEMIX	354248N 0143038E	N/A	RNAV VISUAL APPROACH RWY31
DEXOL	355801N 0131300E	M726, M979, M980, Z404	FRA (I) LICD SID
DIBAK	351611N 0152800E	M622, N47	FRA (I)
DILIN	370032N 0135852E	P126	FRA (D): LMML FRA (X): EVEN FL TOC Roma / Malta ACC
DINUX	363000N 0114920E	M979	FRA (I)
DIRKA	363000N 0141836E	N982	FRA (I)
DOBIX	363000N 0120737E	M740, M978, N4	FRA (I)
DOKIK	352823N 0131332E	M726, P868	FRA (I)
DOMNA	344600N 0145500E	N/A	AREA GANNET FRA (I)
EBAMI	350700N 0163500E	N/A	AREA PELICAN FRA (I)
EDELI	350452N 0123800E	M727, Z351	FRA (I)
EKLIS	342000N 0202855E	P32	FIR BDRY FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i>
EKOLA	363000N 0135820E	L12	FRA (I)
ELIMO	342000N 0162210E	M732, Z333	FIR BDRY FRA (D): LMML FRA (X): ODD FL
ELKAN	355218N 0194139E	P158, P167, Y751	FRA (I)
EMLAR	353754N 0181718E	M620, N4	FRA (I)
ENELO	354621N 0143458E	N/A	RNAV VISUAL APPROACH RWY31
EVIRA	355253N 0165630E	M621, M978, N4, N46	FRA (I)
EVLAM	360547.0N 0145330.4E	N/A	IAF / HF LMML RNP RWY23

Name-code designator 1	Coordinates 2	ATS route or other route 3	Remarks/Usage 4
EVLIB	350158N 0214622E	M871, P32, P167, T340	FALCON AAR corridor FRA (I)
EVOTA	355925.3N 0144226.0E	N/A	IF LMML RNP RWY23
EVPAT	355631.5N 0143724.6E	N/A	FAF LMML RNP RWY23
FORUM	344600N 0140500E	N/A	AREA GANNET AREA ALBATROSS AREA PELICAN FRA (I)
GENLA	344600N 0154500E	N/A	AREA ALBATROSS FRA(I)
GODAK	353816N 0153659E	L874, M980	FRA (I) FRA (AD): LMML LMML SID
GUDER	360633.9N 0142352.7E	N/A	IAF / HF LMML ILS / RNP RWY13
INBIN	351607N 0183000E	L874, M620	FRA (I)
INDOT	342000N 0165653E	M622, M979, P134	FIR BDRY FRA (A): LMML FRA (E): EVEN FL
INKOP	353343N 0204258E	M978, T340	FRA (I)
INTAM	355253.0N 0144807.6E	N/A	IAF / HF LMML RNP RWY23
KEKOR	354613.6N 0144902.9E	N/A	IAF / HF LMML ILS / RNP RWY31
KOLEX	363000N 0123458E	M727, P623, Q723	FRA (I)
KOSET	350608N 0134025E	N982, Z351	FRA (I)
KUTOS	350626N 0183538E	L144, M620, P868, Z351	FRA (I)
LACAN	350700N 0154500E	N/A	AREA ALBATROSS FRA (I)
LAKOM	360425.7N 0142116.5E	N/A	LMML ILS / RNP RWY13
LAPID	355520.2N 0144559.6E	N/A	LMML RNP RWY23
LASGO	354709.4N 0141041.5E	N/A	LMML RNP RWY05
LATNI	354450N 0124058E	M742	LICD STAR
LESMI	354355N 0123054E	M740	LICD STAR

Name-code designator 1	Coordinates 2	ATS route or other route 3	Remarks/Usage 4
LEVDI	363000N 0184932E	T340, Y751	FIR BDRY FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i>
LONDI	372044N 0131127E	M726, Q723	FRA (D): LMML FRA (X): EVEN FL TOC Roma / Malta ACC
LONIK	354537N 0142708E	N/A	RNAV VISUAL APPROACH RWY31
LORED	363000N 0153700E	L20, L21, L31, M600, P624	FIR BDRY FRA (AD): LMML FRA (EX): EVEN FL <i>for entering aircraft</i> , ODD FL <i>for exiting aircraft</i> LMML SID
LOTIN	342000N 0150959E	L12, L31	FIR BDRY FRA (D): LMML FRA (X): ODD FL
LUMED	342000N 0144203E	M215, P126	FIR BDRY FRA (A): LMML FRA (E): EVEN FL
LUVOS	353700.1N 0143747.2E	N/A	LMML ILS / RNP RWY31
MABOX	370942N 0131139E	M622, M726	FRA (I)
MADIR	363000N 0131225E	M726	FRA (I)
MARON	370725N 0133911E	L12	FRA (A): LMML FRA (E): ODD FL TOC Roma / Malta ACC
METIM	354935.9N 0140832.5E	N/A	IAF / HF LMML RNP RWY05
MONAM	360557.3N 0143643.5E	N/A	IAF / HF LMML RNP RWY23
NEBEN	355720.8N 0142119.6E	N/A	FAF LMML ILS / RNP RWY13
NEDOX	360051.9N 0141656.6E	N/A	IF LMML ILS / RNP RWY13
NELDA	365146N 0142334E	N573, N982	FRA (AD): LMML FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i> TOC Roma / Malta ACC
NEVIK	350800N 0215740E	L144, P32, P33	FIR BDRY FRA (EX): EVEN FL <i>for entering aircraft</i> , ODD FL <i>for exiting aircraft</i>
NEVNA	360243N 0131255E	L30, M726	FRA (I)
NIBLO	363000N 0125032E	M742	FRA (I)



Name-code designator 1	Coordinates 2	ATS route or other route 3	Remarks/Usage 4
NIGAT	353924N 0113000E	P868	FIR BDRY FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i>
NIMAN	355552N 0195955E	N45, Q789, T340	FRA (I)
NOLER	360835.8N 0140716.6E	N/A	IAF / HF LMML ILS / RNP RWY13
NUPMA	363000N 0120312E	N163	FRA (I)
OBITA	354849N 0133223E	P624	FRA (I) LMML SID
OLMAX	342000N 0180750E	M621	FIR BDRY FRA (E): EVEN FL
OMBER	355509.6N 0141001.4E	N/A	IAF / HF LMML ILS / RNP RWY13
OMENI	360226N 0113000E	L21, L30, L874, M9	FIR BDRY FRA (AD): LMML FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i>
ORTAP	363000N 0182000E	P167, Q789	FIR BDRY FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i>
PEGIT	363000N 0113341E	M395	FRA (I)
PETIP	354502N 0123708E	M727	LICD STAR
PIGOL	353055N 0124445E	N/A	IAF LICD RWY26
RALAK	343125N 0113000E	L144, M742, N47, P623	FIR BDRY FRA (AD): LMML FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i>
RALOM	353900.8N 0141750.5E	N/A	LMML RNP RWY05
RANAT	355718.0N 0141237.0E	N/A	LMML ILS / RNP RWY13
RASNO	342000N 0212758E	M1, P33, Y751	FIR BDRY FRA (EX) M1, P33: ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i> Y751: EVEN FL <i>for entering aircraft</i> , ODD FL <i>for exiting aircraft</i>
RATOK	364352N 0131209E	M726, M732	FRA (I)
REPTA	354216N 0131317E	M9, M726, P624	FRA (I) LICD STAR

Name-code designator 1	Coordinates 2	ATS route or other route 3	Remarks/Usage 4
REVPO	360330.4N 0143852.1E	N/A	LMML RNP RWY23
ROBIM	365453N 0125554E	M732, M742, Q723	FRA (I)
ROLEV	363000N 0113723E	M739	FRA (I)
ROTAS	355650N 0201346E	N45	FIR BDRY FRA (EX): EVEN FL <i>for entering aircraft</i> , ODD FL <i>for exiting aircraft</i>
ROTIP	355244N 0143548E	N/A	RNAV VISUAL APPROACH RWY31
RUBRI	363554N 0120432E	M740	FRA (I)
RUDOG	352600N 0171731E	L874, M621	FRA (I)
RULOV	354406.0N 0144626.8E	N/A	LMML ILS / RNP RWY31
SARKI	342000N 0131447E	M600, M726, M740, N982	FIR BDRY FRA (A): LMML FRA (E): EVEN FL
SENTI	371017N 0123259E	M727, M732	FRA (AD): LMML FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i> TOC Roma / Malta ACC
SOFOR	353246.4N 0145140.0E	N/A	IAF / HF LMML ILS / RNP RWY31
SONAK	363712N 0113000E	M395, M739, M978, M979	FRA (AD): LMML FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i> TOC Tunis / Malta ACC
SOPIR	363000N 0134737E	M622	FRA (I)
SUBOK	363000N 0165126E	M871, P8, P158	FALCON AAR corridor FIR BDRY FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i>
SUDIK	352429N 0143029E	L12, M9, M600, M979, N45, P126, P868, T299, Z333	FRA (I) LMML SID
SUDOX	354033.1N 0144206.8E	N/A	IF LMML ILS / RNP RWY31
SUKAL	354405.0N 0143745.6E	N/A	FAF LMML ILS / RNP RWY31
SUNER	354954N 0143917E	N/A	RNAV VISUAL APPROACH RWY31
SUSOM	363000N 0140557E	P126	FRA (I)

Name-code designator 1	Coordinates 2	ATS route or other route 3	Remarks/Usage 4
TISAL	363000N 0174623E	M620	OSPREY AAR corridor FIR BDRY FRA (EX): ODD FL <i>for entering aircraft</i> , EVEN FL <i>for exiting aircraft</i>
TIVOR	353452.2N 0143511.6E	N/A	IAF / HF LMML ILS / RNP RWY31
TOTTI	344600N 0163500E	N/A	AREA PELICAN FRA (I)
TOVMA	362243N 0131233E	M726, N4, N573	FRA (I)
UPLIT	363000N 0133223E	M215, M732, N46, N573	FRA (I)
VALKI	342000N 0222800E	N/A	FIR BDRY FRA (E): EVEN FL
VANIX	344939N 0212327E	L874, P32, P868	FRA (I)
VARIG	342000N 0134350E	M739, T297, T299	FIR BDRY FRA (D): LMML FRA (X): ODD FL
VEBIK	354600.0N 0141915.9E	N/A	FAF LMML RNP RWY05
VEKIM	353639.8N 0140318.1E	N/A	IAF / HF LMML RNP RWY05
VEMOL	354305.2N 0141416.2E	N/A	IF LMML RNP RWY05
VENIM	363000N 0172533E	P3, Z352	FIR BDRY FRA (E): ODD FL
VERAK	355417N 0122543E	M740, M980	FRA (I) LICD SID
VESOD	363000N 0155537E		FRA (X): ODD FL

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**ENR 4.5     AERONAUTICAL GROUND LIGHTS - EN-ROUTE**

Nil

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**ENR 5 NAVIGATION WARNINGS****ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS****1. PROHIBITED AREAS**

<i>Identification, name and lateral limits</i>	<i>Upper limit Lower limit</i>	<i>Remarks (time of activity, type of restriction, nature of hazard)</i>
<b>1</b>	<b>2</b>	<b>3</b>
<b>LM-P1 'DELIMARA'</b> A circle, 600 M radius centred at 354949N 0143316E.	<u>2000 FT</u> SFC	LNG Power Plant. H24.

**2. RESTRICTED AREAS**

Nil

**3. DANGER AREAS**

<i>Identification, name and lateral limits</i>	<i>Upper limit Lower limit</i>	<i>Remarks (time of activity, type of restriction, nature of hazard)</i>
<b>1</b>	<b>2</b>	<b>3</b>
<b>LM-D1 'PEMBROKE HIGH'</b> An arc, 8.5 NM radius centred at 355554N 0142832E joining the following points: 360337N 0142406E - 360009N 0143736E.	<u>27000 FT</u> SFC	Gun firing. Activated by NOTAM.
<b>LM-D6 'PEMBROKE LOW'</b> An arc, 4 NM radius centred at 355554N 0142832E joining the following points: 355946N 0142715E - 355829N 0143219E.	<u>8800 FT</u> SFC	Small-to-medium gun firing. Activated by NOTAM.

**NOTES:**

1. A graphical representation of these areas is given on page ENR 6-LMMM-DA - 1.
2. When these Danger Areas are active, aircraft operators should flight plan their preferred routes and Malta ATC will tactically re-route aircraft clear of these Danger Areas by use of radar vectors, direct routing or vertical separation.
3. FL 290 first usable level for GAT above LM-D1.
4. FL 100 first usable level for GAT above LM-D6.
5. Aircraft are deemed clear when operating outside the lateral limits of the danger areas.

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**ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS****1. MALTA AIR REFUELLING AREAS**

<i>Identification</i>	<i>Significant points defining corridor</i>	<i>Upper limit Lower limit</i>	<i>Width of corridor</i>	<i>Remark</i>
1	2	3	4	5
FALCON CORRIDOR	ARLOS - EVLIB - ABNAT- SUBOK	FL280 FL150	5 NM either side of centreline	Air-to-Air refuelling corridor Available bi-directional Activated on a tactical basis
OSPREY CORRIDOR	ARLOS - ALIXA - TISAL	FL280 FL200	5 NM either side of centreline	Air-to-Air refuelling corridor Available bi-directional Activated on a tactical basis

*Notes:* (see charts in ENR 6-LMMM-AAR-FALCON - 1 and ENR 6-LMMM-AAR-OSPREY - 1)

Aircraft operating within these corridors shall be equipped to meet a navigational accuracy of RNAV 5 or equivalent.

The air refuelling activity will be conducted within airspace reservations approved by Malta ATS. Requests for reservation of these corridors for the purpose of AAR or transit flight in blocked levels should be addressed to the Airspace Cell of Malta ATS by e-mail at: [airspace.cell@maltats.com](mailto:airspace.cell@maltats.com).

Standard ICAO flight plans shall be submitted to the IFPS in accordance with EUROCONTROL procedures. In order to flight plan the MALTA corridors, users should insert the appropriate DCT points in Field 15 of the flight plan as indicated in the table above.

All aircraft involved in air refuelling operations shall be in contact with the appropriate Malta ATS unit and will be subject to ATC clearances in accordance with established procedures. During AAR within the MALTA corridors, ATC will consider the aircraft involved to be in Non-Deviation Status (NDS). Within the airspace of the Malta FIR/UIR, NDS means that ATC will not turn/climb/descend NDS approved aircraft in order to achieve separation with other non-participating aircraft unless absolutely required due to safety, emergency or other exceptional circumstances.

## 2. TEST TRAINING AREAS

<i>Identification</i>	<i>Significant points defining area</i>	<i>Upper limit Lower limit</i>	<i>Remark</i>
1	2	3	4
AREA GANNET	ADIPO - BAGTU - DOMNA - FORUM	FL660 FL100	Activated on a tactical basis either as a volume of airspace or as a track on the significant points defining the area.
AREA ALBATROSS	ADIPO - LACAN - GENLA - FORUM	FL660 FL100	Activated on a tactical basis either as a volume of airspace or as a track on the significant points defining the area.
AREA PELICAN	ADIPO - EBAMI - TOTTI - FORUM	FL660 FL100	Activated on a tactical basis either as a volume of airspace or as a track on the significant points defining the area.

Notes: (see charts in ENR 6-LMMM-TTA1 - 1, ENR 6-LMMM-TTA2 - 1 and ENR 6-LMMM-TTA3 - 1)

Aircraft operating within these areas shall be equipped to meet a navigational accuracy of RNAV 5 or equivalent.

Request for reservations of these areas should be addressed to the Airspace Cell of Malta ATS by e-mail at: [airspace.cell@maltats.com](mailto:airspace.cell@maltats.com).

Standard ICAO flight plans shall be submitted to the IFPS in accordance with NM procedures. SUDIK SIDs from LMML are mandatory for aircraft to access these areas. Insertion of the appropriate STAY indicator is required after SUDIK. The following text shall be inserted as a Remark in Field 18 of the FPL – RMK/GANNET / ALBATROSS / PELICAN AREA APPROVED BY MALTA ATS.

Aircraft operating within these areas shall be in contact with the appropriate Malta ATS unit and will be subject to ATC clearances. Non-Deviation Status procedures will be applicable in these areas unless otherwise coordinated with the users concerned. NDS procedures will afford a level of priority to these flights in order to meet their test / training requirements whilst operating in the approved area.

These areas will not be segregated and therefore non-participating aircraft will be able to flight plan the ATS route network / FRA as applicable.

**ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS****1. Other activities of a dangerous nature****1.1 *Military flight operations over the high-seas***

1.1.1 Foreign military forces may decide to conduct military activity over the high-seas within the lateral limits of the Malta FIR/UIR, inside and/or outside controlled airspace. When these operations are coordinated with Malta ATS and information is available on the lateral and vertical limits, time of activity and status of these areas, Malta ATS will publish an appropriate NOTAM in coordination with the military authorities involved in this activity.

1.1.2 In case of military activity conducted over the high-seas under the provisions of 'due regard', Malta ATS will not publish any NOTAM. In such instances the military authorities planning such activity are responsible to comply with applicable ICAO provisions over the high seas and to ensure the safety of air navigation. Malta ATC will endeavour to provide traffic information to flights operating as General Air Traffic (GAT) under its control, in so far as practical, by means of a broadcast message transmitted on the sector concerned. The broadcast message will contain information based on intensity, general position and maximum operating levels of observed traffic on radar. However, Malta ATC may not always be in a position to monitor the unknown traffic and will therefore be unable to provide specific traffic information to single GAT flights. In the event of heavy military activity, Malta ATS may decide to re-route traffic and/or to issue ATFM regulations, as applicable.

**2. Other potential hazards****2.1 *Ascent of balloons for radio soundings and high altitude radar wind observations***

<i>Place of ascent</i>	<i>Time of ascent</i>  <i>UTC (1)</i>	<i>Max Weight</i>  <i>kg</i>	<i>Length of unit</i>  <i>m</i>	<i>Rate of Ascent</i>  <i>ft/min</i>	<i>Affected height</i>  <i>m</i>	<i>Time length of the sounding hours (2)</i>	<i>Notification to</i>	<i>Operator</i>	<i>Valid until</i>
1	2	3	4	5	6	7	8	9	10
LAMPEDUSA 353106N 0123750	DAILY 0700 (0600) ± 45 min 1200 (1100) ± 45 min 1700 (1600) ± 45 min 2300 (2200) ± 45 min	2	60	1000	30000	NIL	LAMPEDUSA AFIU	ENEA Capo Grecale Lampedusa	PERM

**REMARKS:**

- Plus 1 hour for an eventual re-launch (in brackets summer times).
- Plus 1 hour for fall down.

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**ENR 5.4 AIR NAVIGATION OBSTACLES — EN-ROUTE**

(Height 100 M AGL or higher)

OBST ID or designation	OBST type	OBST position	ELEV/HGT (M)	OBST LGT Type/Colour	Remarks
1	2	3	4	5	6
Portomaso Tower	Building with mast	355519N 0142932E	135/120	Steady red	

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**ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES**

<i>Designation and lateral limits</i>	<i>Vertical limits</i>	<i>Operator</i>	<i>Remarks and time of activity</i>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>PARAGLIDING</b> Coast of Malta and Gozo	<u>500 FT</u> SFC	Private Operators	This activity is not regulated and is unknown to ATC
<b>MODEL AIRCRAFT FLYING</b>  <b>Ta' Qali</b> 355357.81N 0142453.00E — 355401.93N 0142447.83E — 355403.92N 0142450.49E — 355404.00N 0142453.56E — 355400.47N 0142458.20E — 355357.81N 0142453.00E	<u>400 FT</u> SFC	Malta Model Aircraft Flying Association	This activity is not regulated and is unknown to ATC  Daily SR-SS
<b>Hal Far</b> 354854.25N 0143018.24E — 354910.00N 0143008.83E — 354911.87N 0143011.06E — 354857.35N 0143032.64E — 354854.25N 0143018.24E	<u>400 FT</u> SFC	Hal Far Model Flying Association	This activity is not regulated and is unknown to ATC  Daily SR-SS

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**ENR 5.6      BIRD MIGRATION AND AREAS WITH SENSITIVE FAUNA**

**1.            General**

- 1.1           Intense bird activity occurs during the periods between March and May as well as between September and November. Various species of birds may transit over Malta, notably involving flocks of starlings, thrushes and turtle doves. Larger birds like hawks, buzzards, kites, egrets, cranes and sea gulls are also observed at times.

**2.            Area over the island of Filfla**

- 2.1           The Filfla Nature Reserve Act, Cap. 323 of 1988 has established all the surface area of the island of Filfla (354724N 0142430E \*) as a protected nature reserve.
- 2.2           For this reason, pilots of low flying aircraft should, whenever possible, avoid flying over the island of Filfla. Apart from endangering aircraft by flying close to bird colonies, the breeding of birds may be upset and the practice should be avoided on conservation grounds.

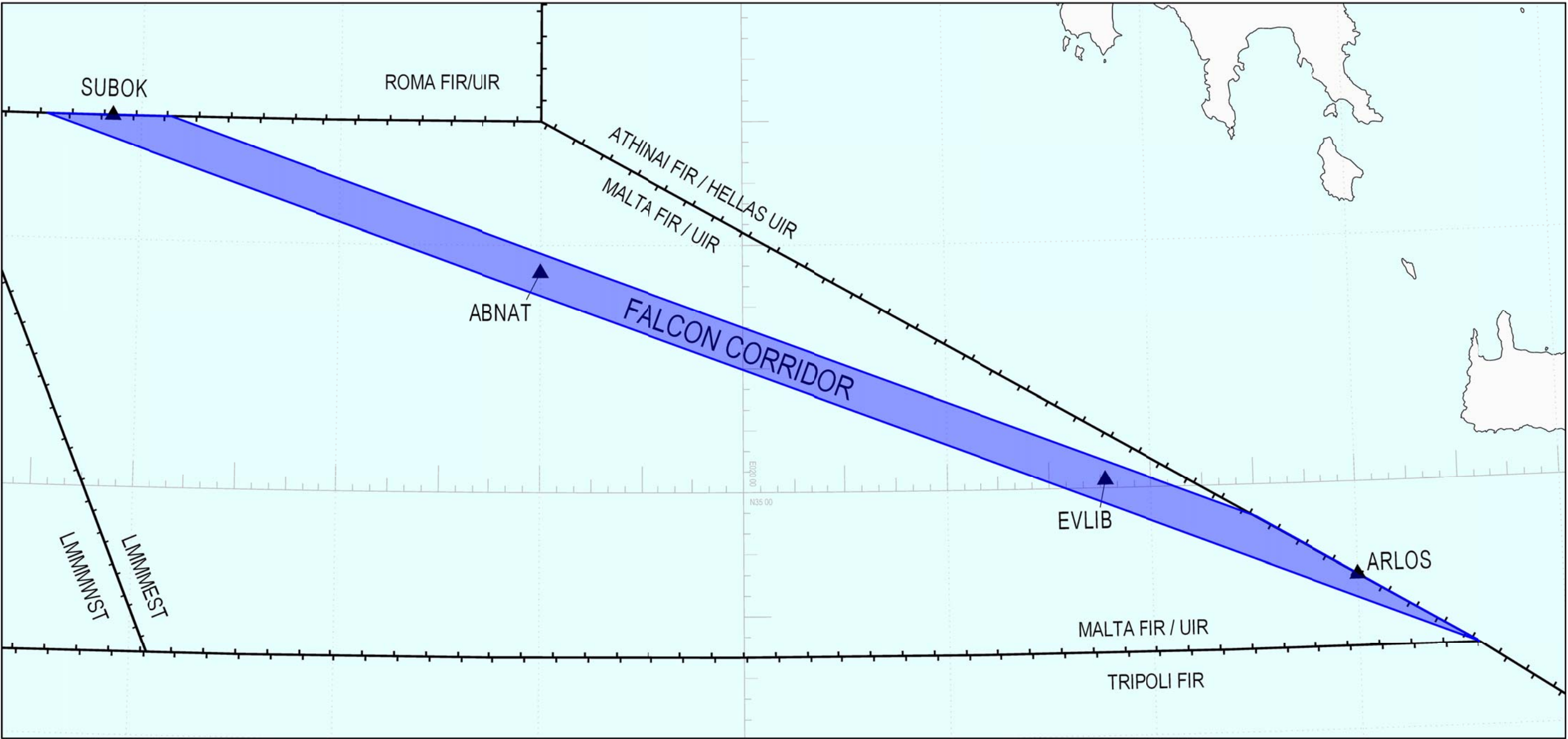
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**ENR 6 EN-ROUTE CHARTS**

Title	Page
Falcon Air to Air Refuelling Corridor	ENR 6-LMMM-AAR-FALCON - 1
Osprey Air to Air Refuelling Corridor	ENR 6-LMMM-AAR-OSPREY - 1
Area Gannet	ENR 6-LMMM-TTA1 - 1
Area Albatross	ENR 6-LMMM-TTA2 - 1
Area Pelican	ENR 6-LMMM-TTA3 - 1
Danger and Prohibited Areas	ENR 6-LMMM-DA - 1
Malta Terminal Control Area	ENR 6-LMMM-TCA - 1
Classification of Airspace	ENR 6-LMMM-COA - 1
Airspace Classification — Airspace Class C (Malta FIR)	ENR 6-LMMM-ASC-FIR - 1
Airspace Classification — Airspace Class C (Malta UIR)	ENR 6-LMMM-ASC-UIR - 1
En-route Chart	ENR 6-LMMM-ERC - 1
Lower ATS Routes — Malta FIR (West Sector)	ENR 6-LMMM-FIR-W - 1
Lower ATS Routes — Malta FIR (East Sector)	ENR 6-LMMM-FIR-E - 1
Upper ATS Routes — Malta UIR (West Sector)	ENR 6-LMMM-UIR-W - 1
Upper ATS Routes — Malta UIR (East Sector)	ENR 6-LMMM-UIR-E - 1
FRA Malta Chart	ENR 6-LMMM-FRA - 1

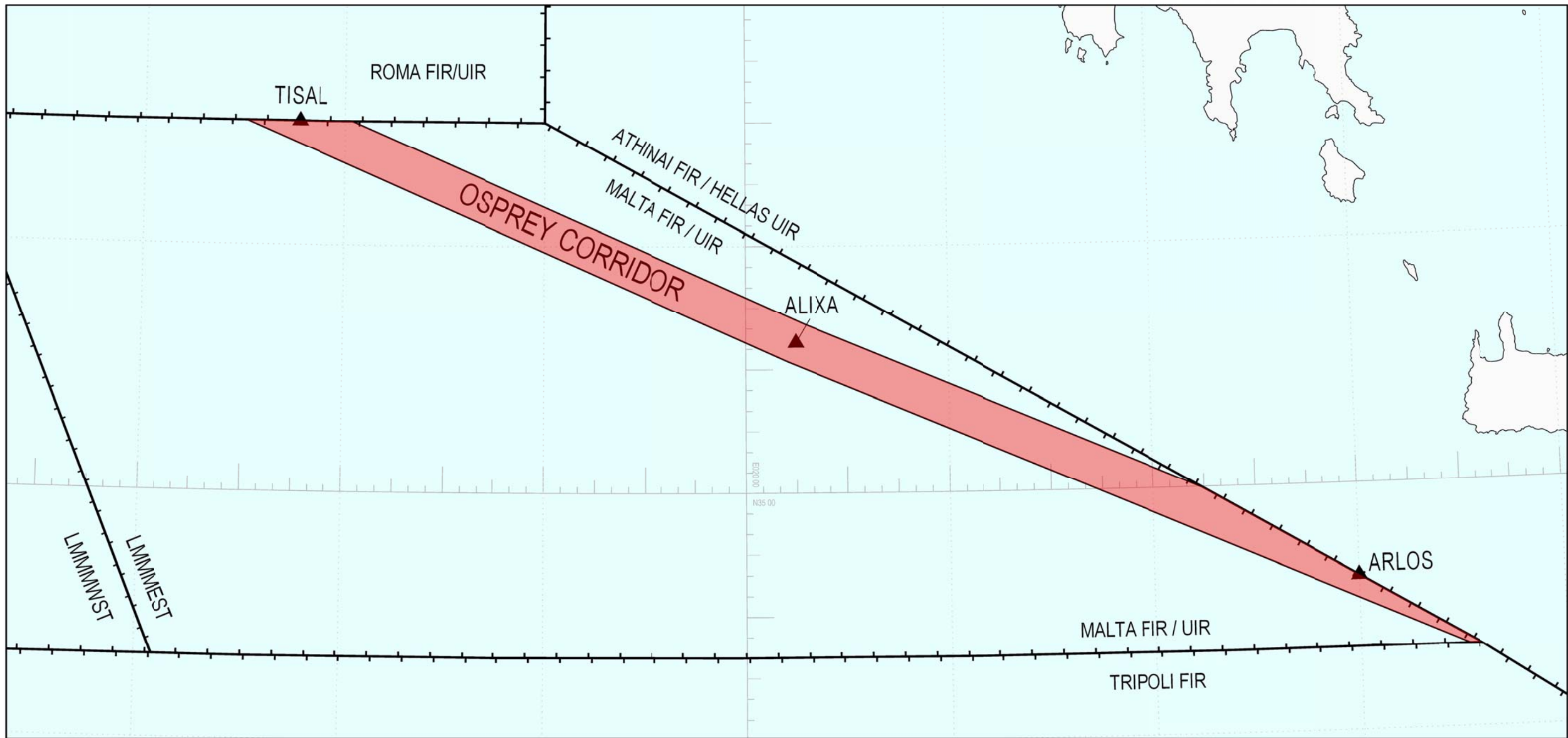
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FALCON AIR TO AIR REFUELLING CORRIDOR



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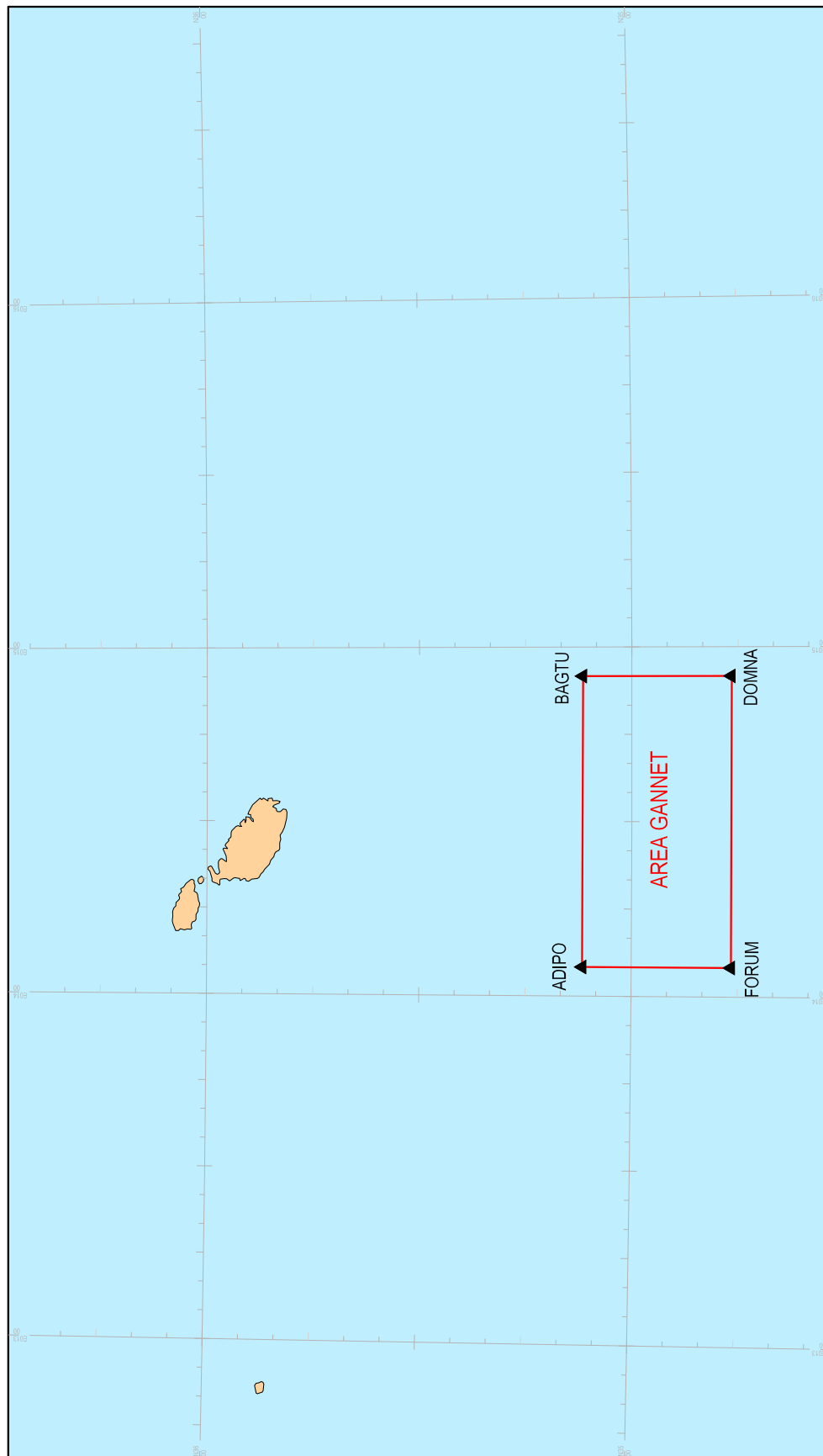
OSPREY AIR TO AIR REFUELLING CORRIDOR



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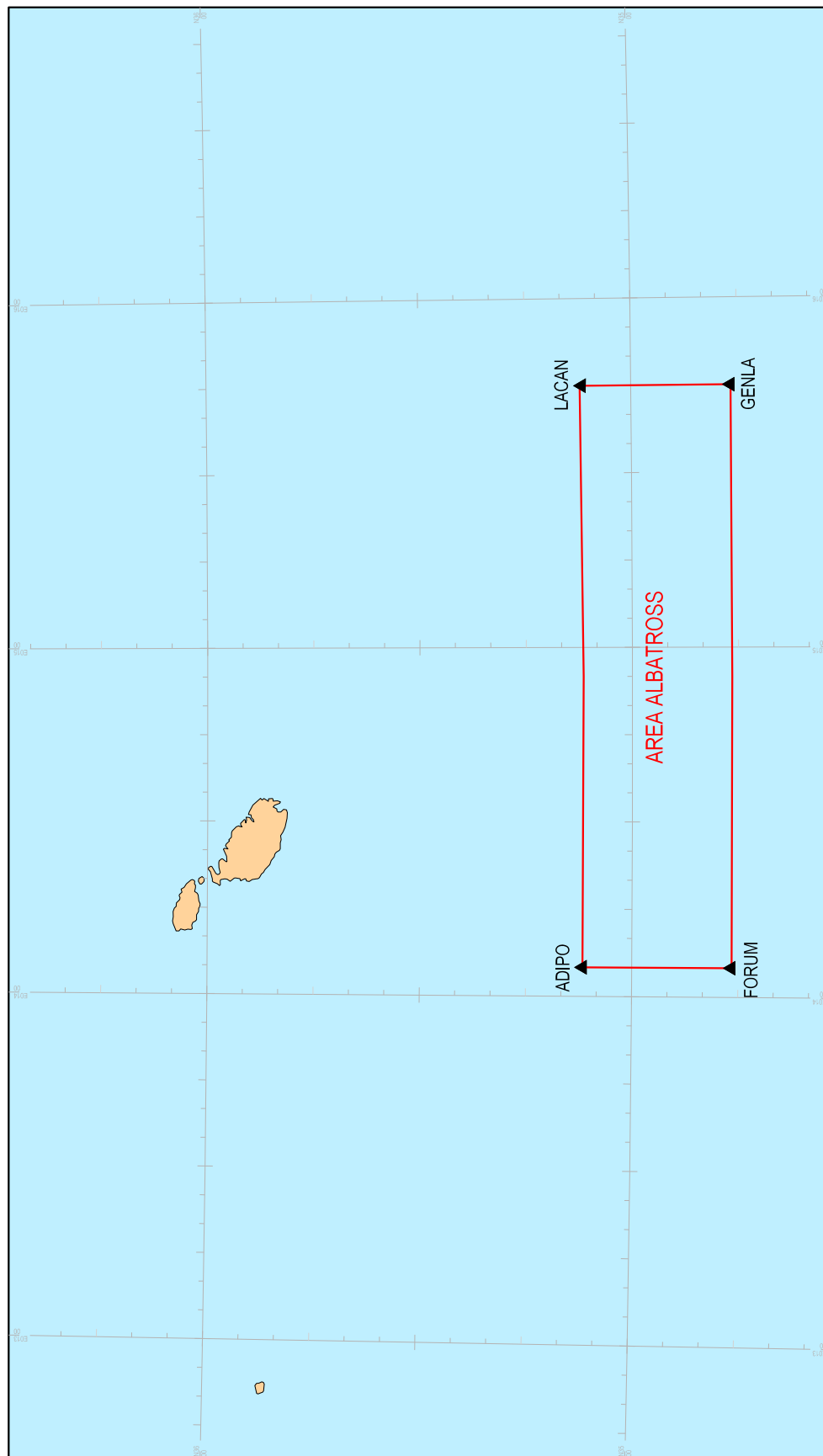


AREA GANNET



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AREA ALBATROSS

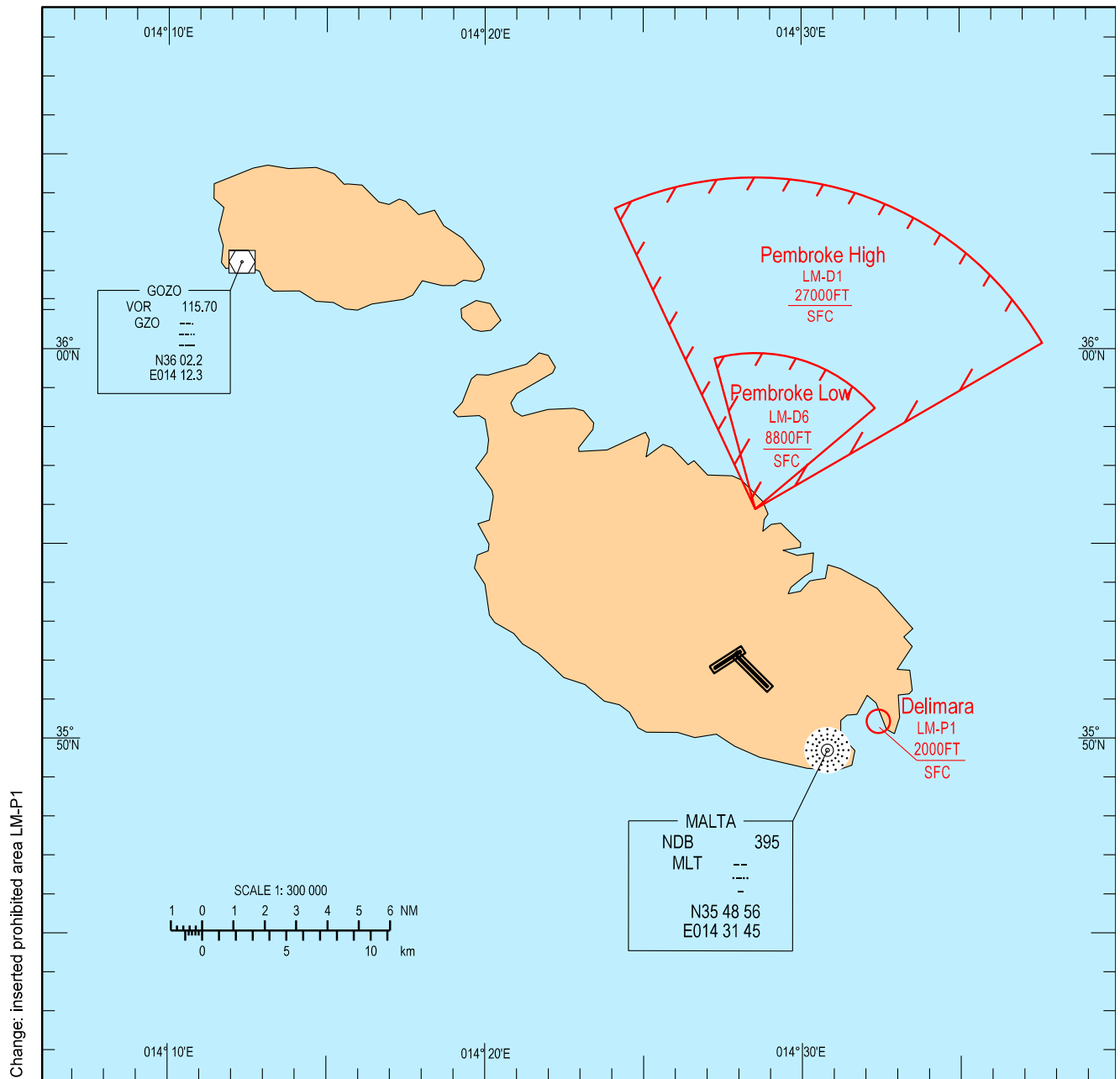


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The map displays the Gulf of Mexico coastline from Texas to Louisiana. A red rectangle is drawn in the offshore area, with its corners labeled ADIPO (top-left), EBAMI (top-right), FORUM (bottom-left), and TOTTI (bottom-right). The text 'AREA PELICAN' is written vertically in red within this rectangle. The map includes a latitude and longitude grid, with latitude marked from 28°N to 30°N and longitude from 92°W to 96°W. The coastline of Texas is shown in orange, and the coastline of Louisiana is shown in yellow. The Gulf of Mexico is shown in light blue.

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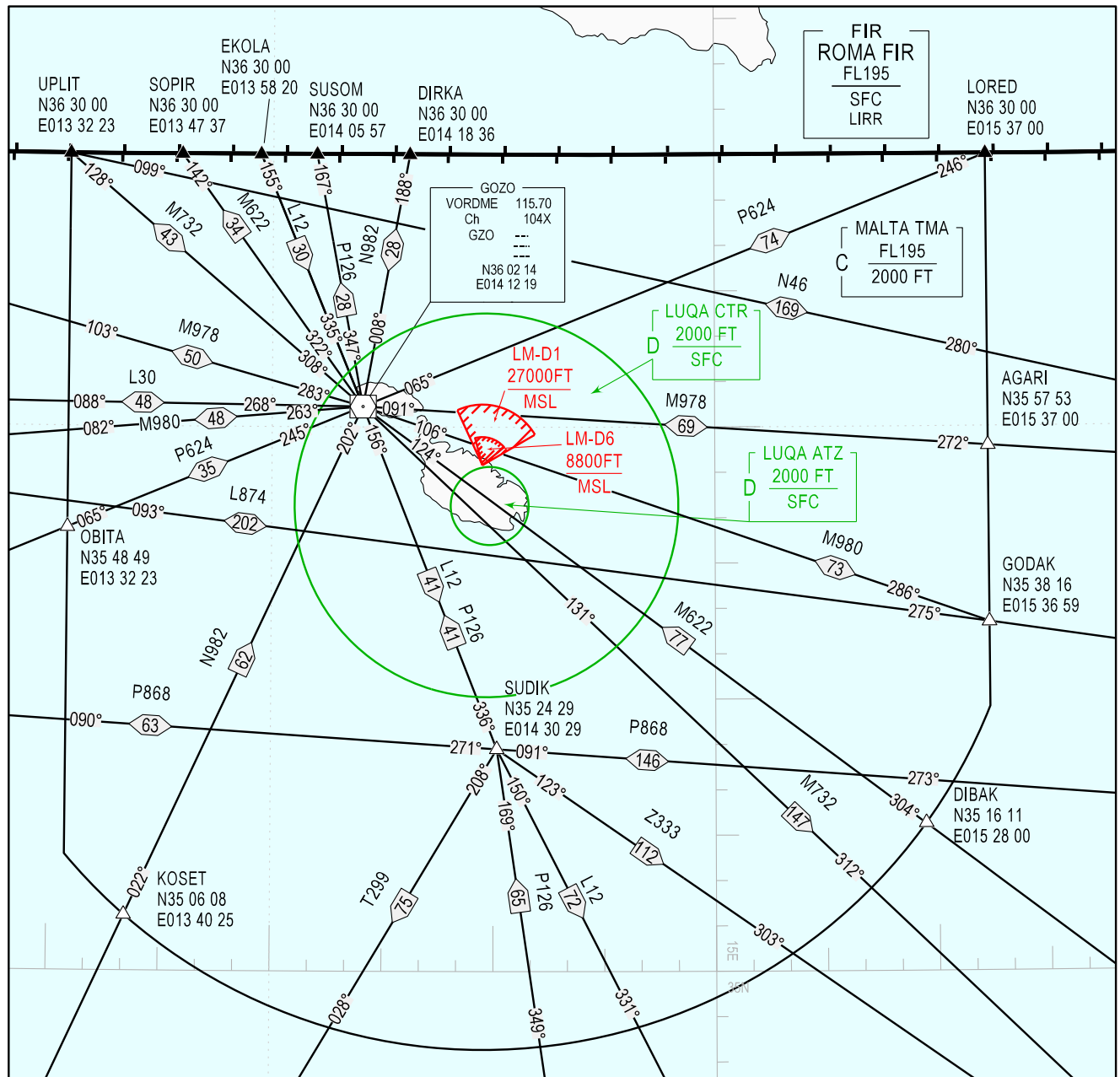
DANGER AND PROHIBITED AREAS



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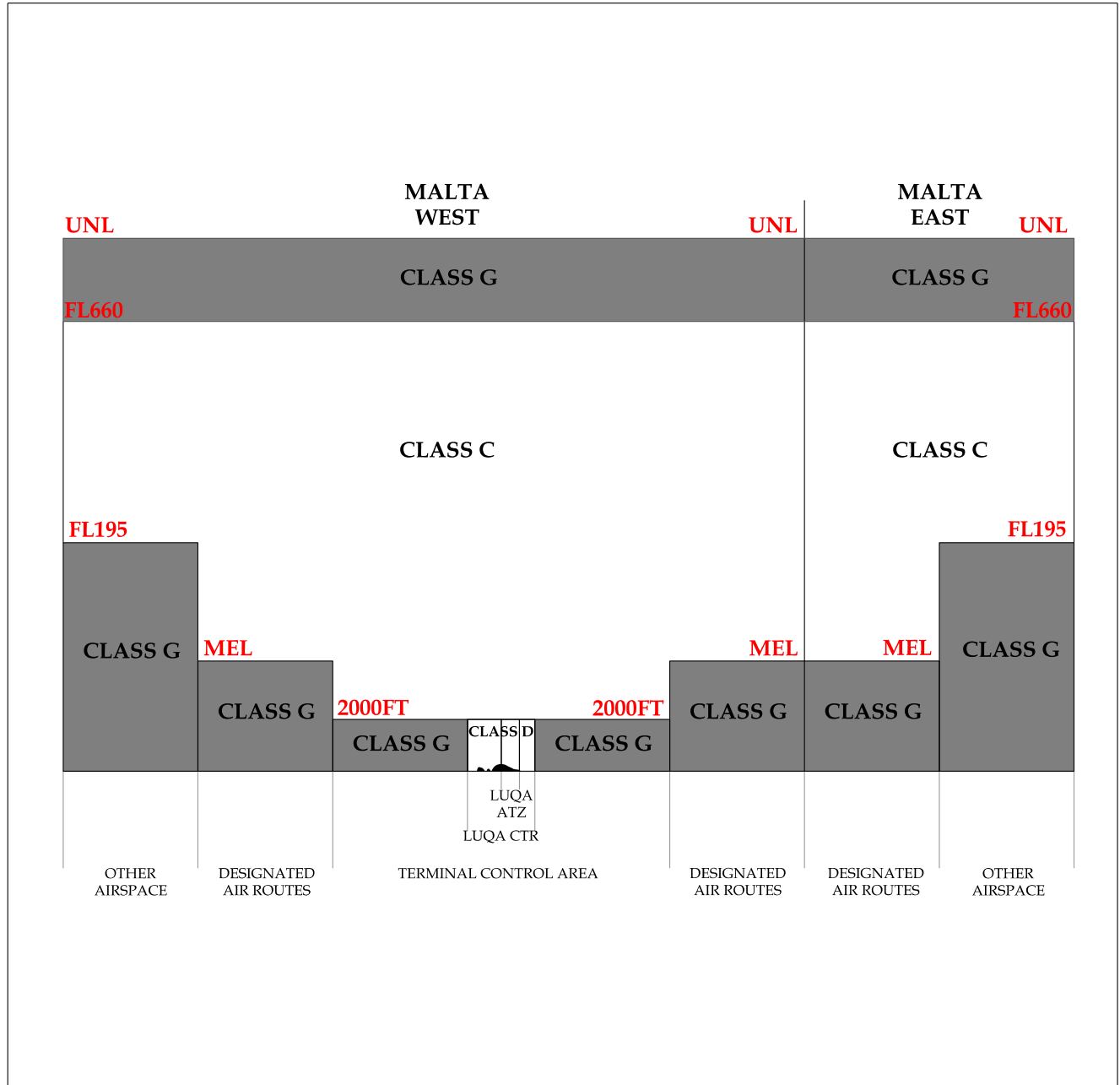


MALTA TERMINAL CONTROL AREA



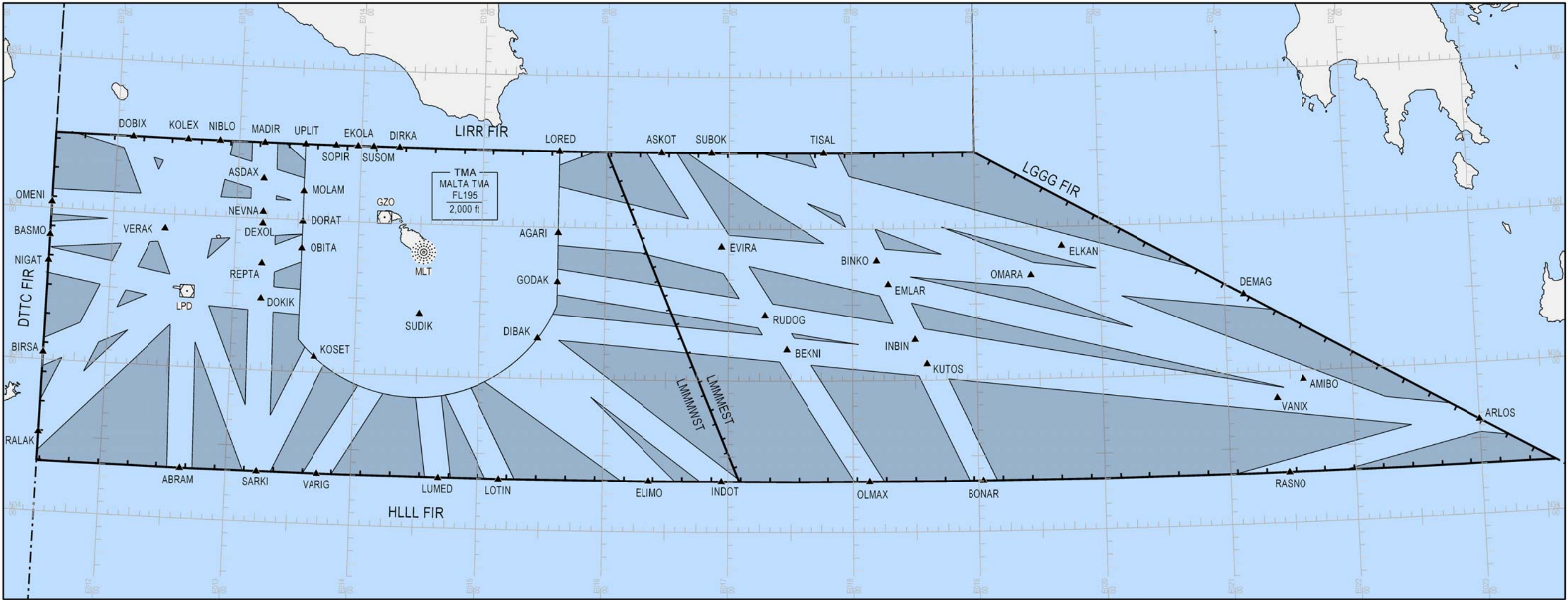
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CLASSIFICATION OF AIRSPACE



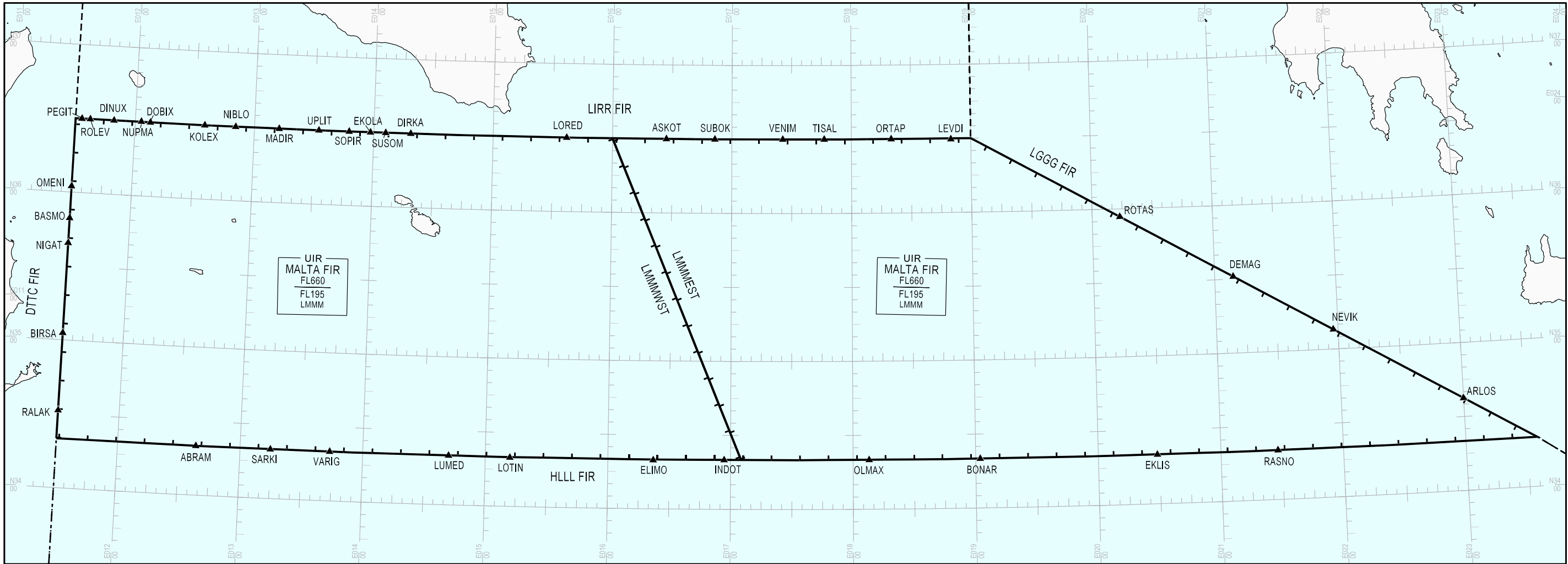
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AIRSPACE CLASSIFICATION — AIRSPACE CLASS C (MALTA FIR)



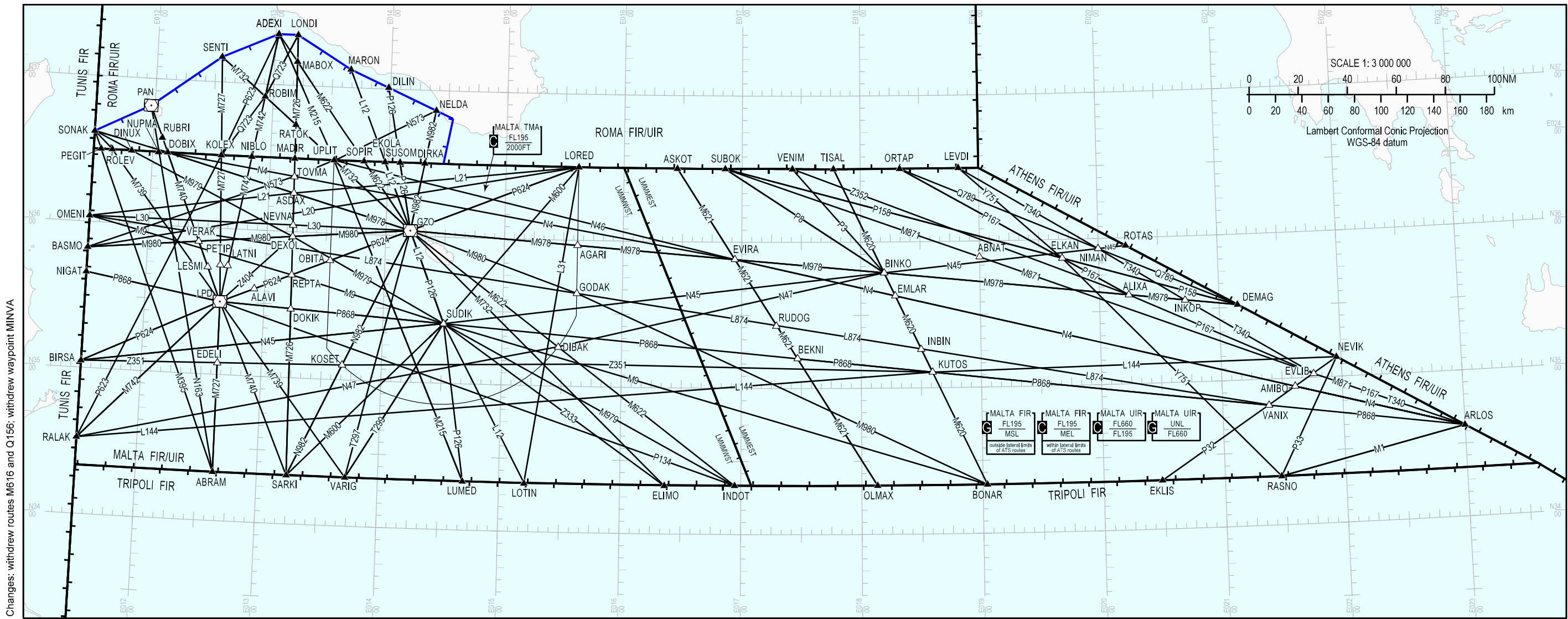
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AIRSPACE CLASSIFICATION — AIRSPACE CLASS C (MALTA UIR)



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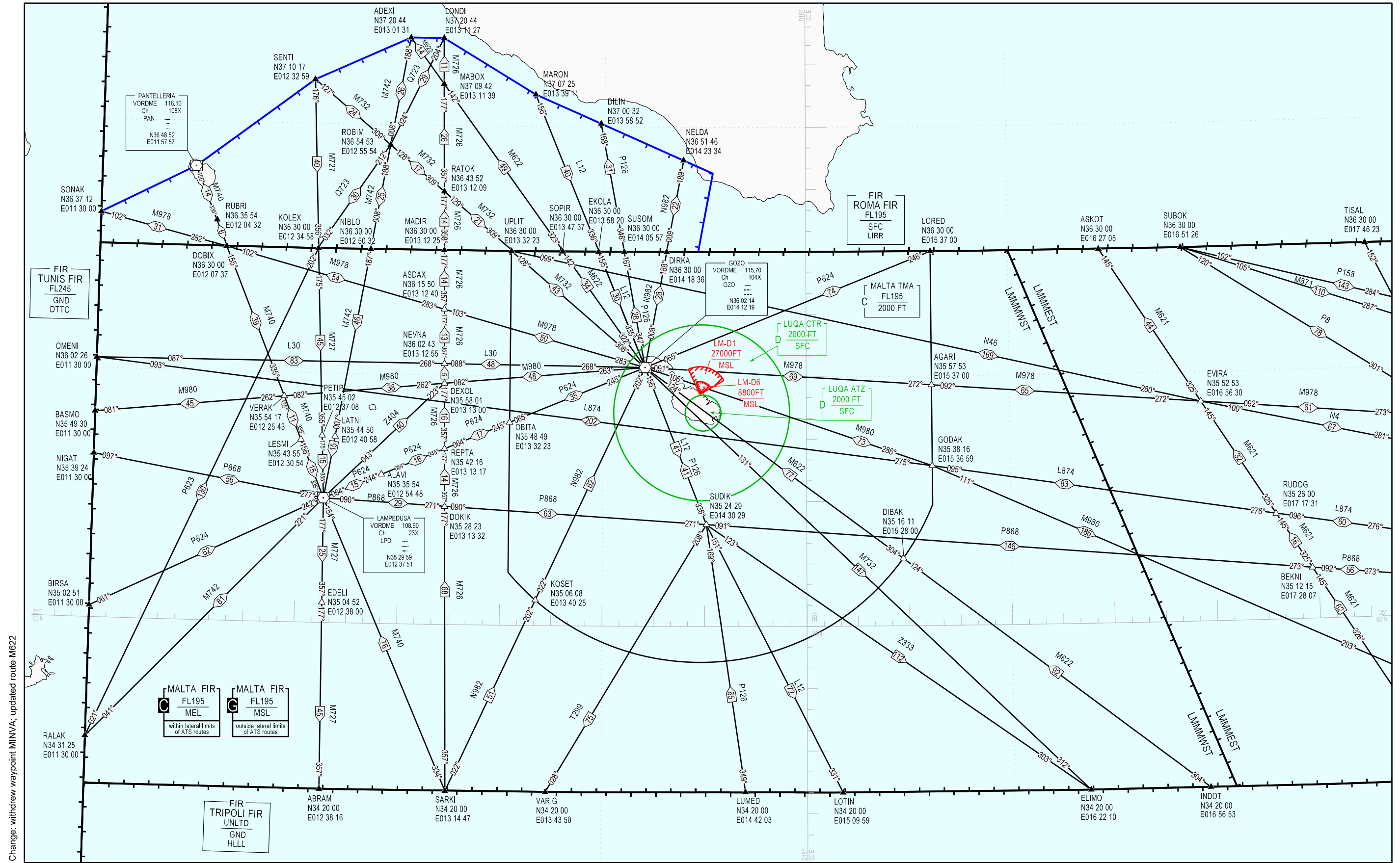




NOTE: The blue line denotes Italian Airspace that forms part of the Malta West Sector.

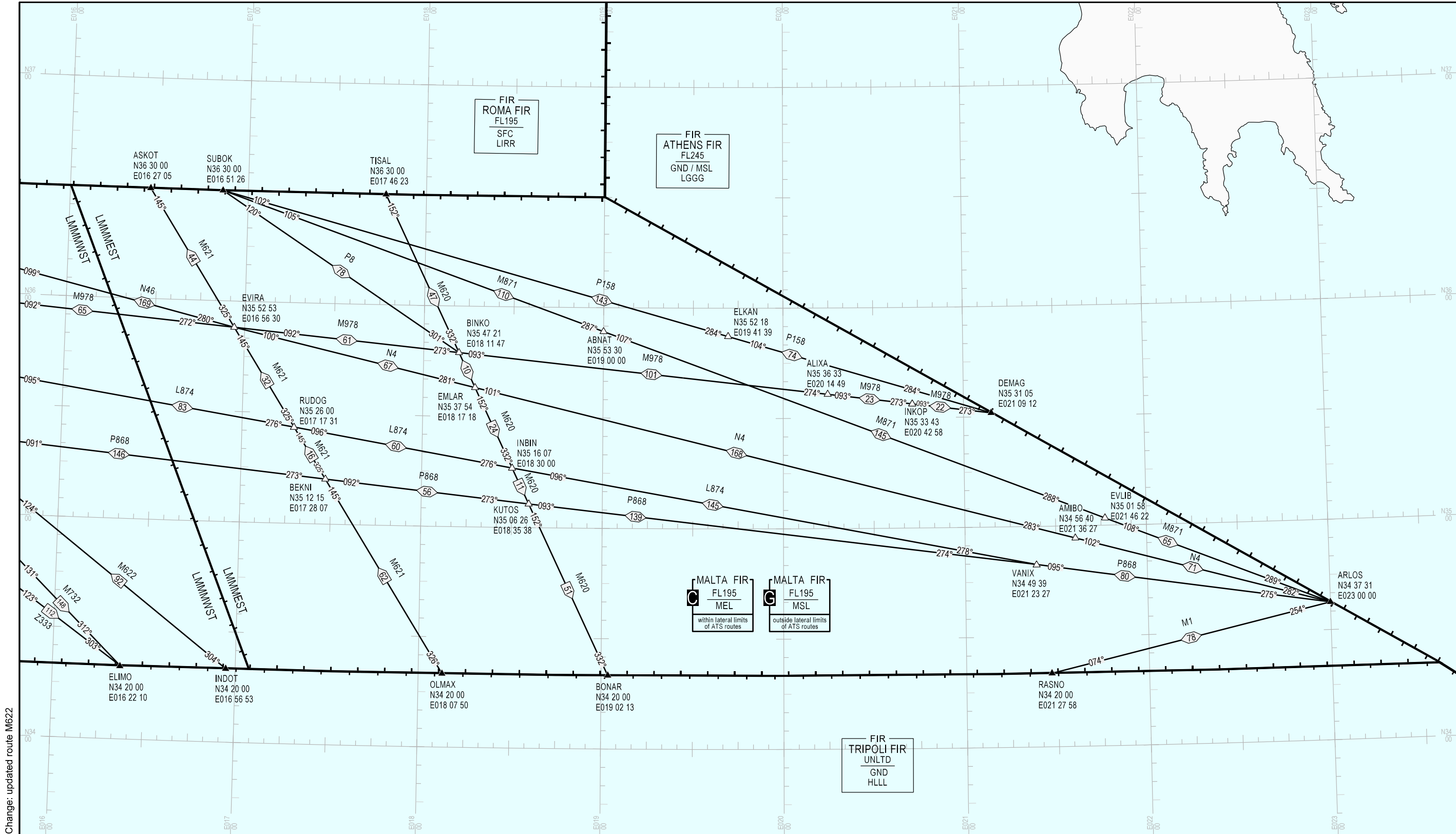
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LOWER ATS ROUTES - MALTA FIR (WEST SECTOR)



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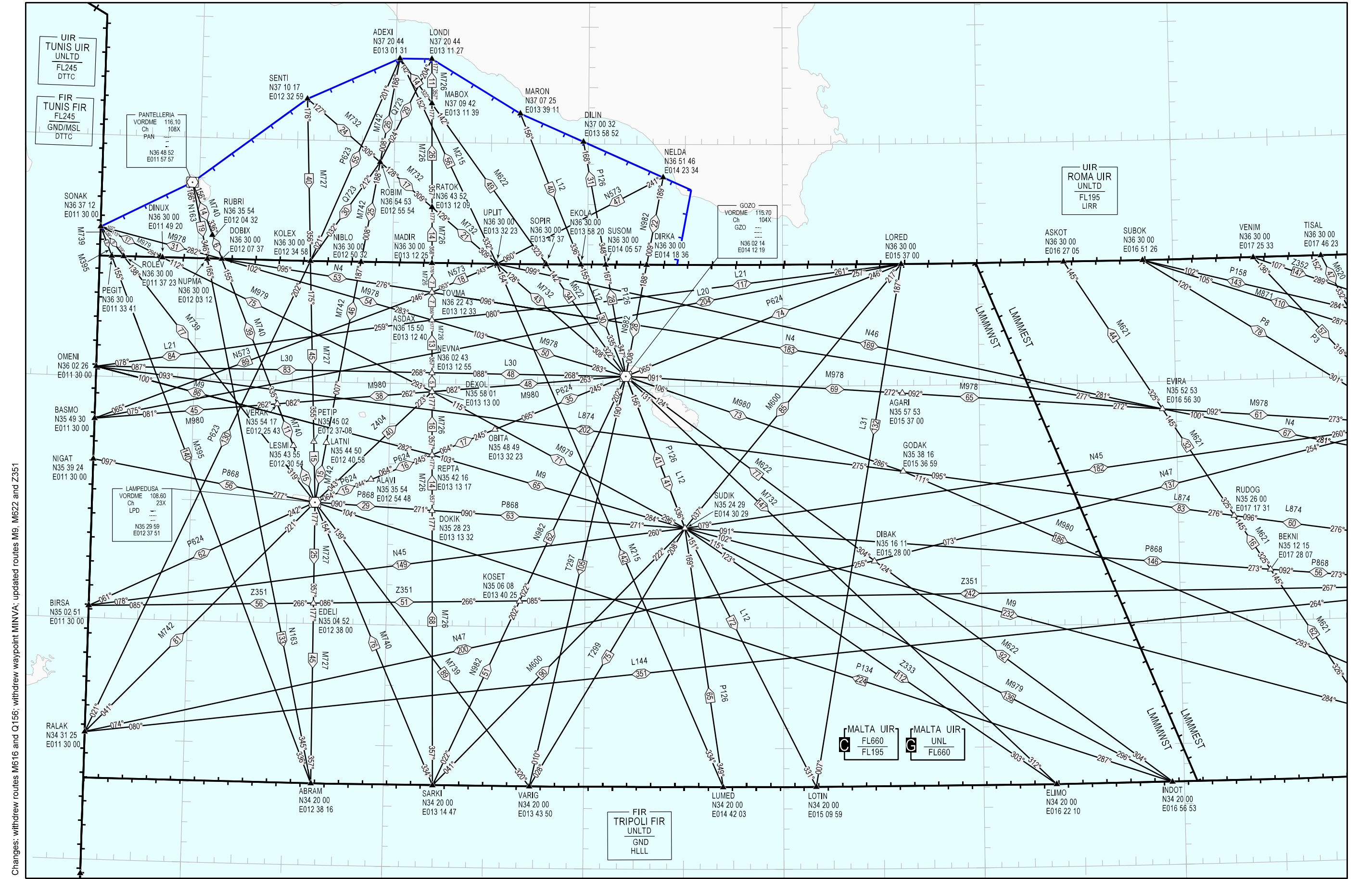
## LOWER ATS ROUTES - MALTA FIR (EAST SECTOR)



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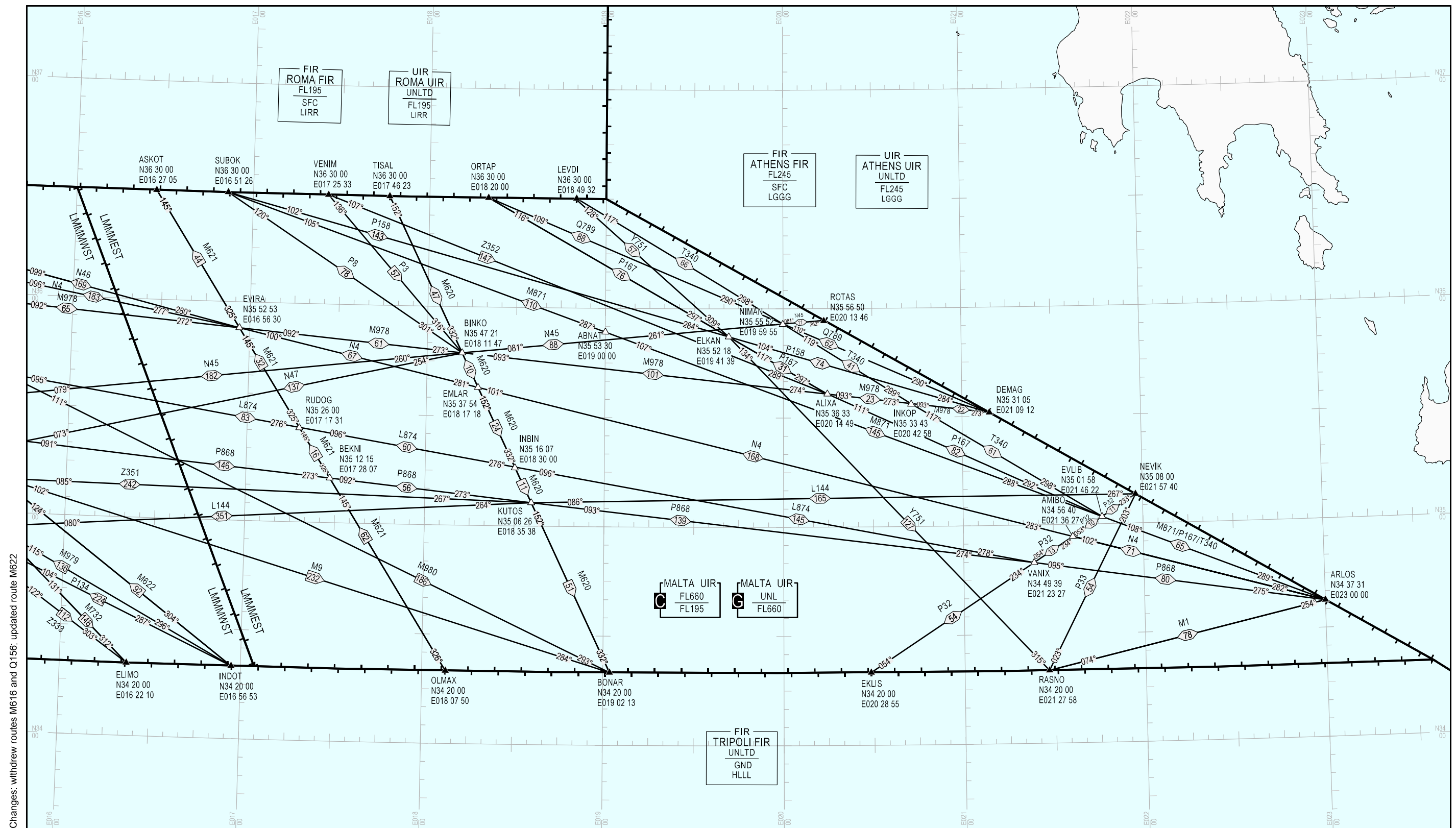
UPPER ATS ROUTES - MALTA UIR (WEST SECTOR)



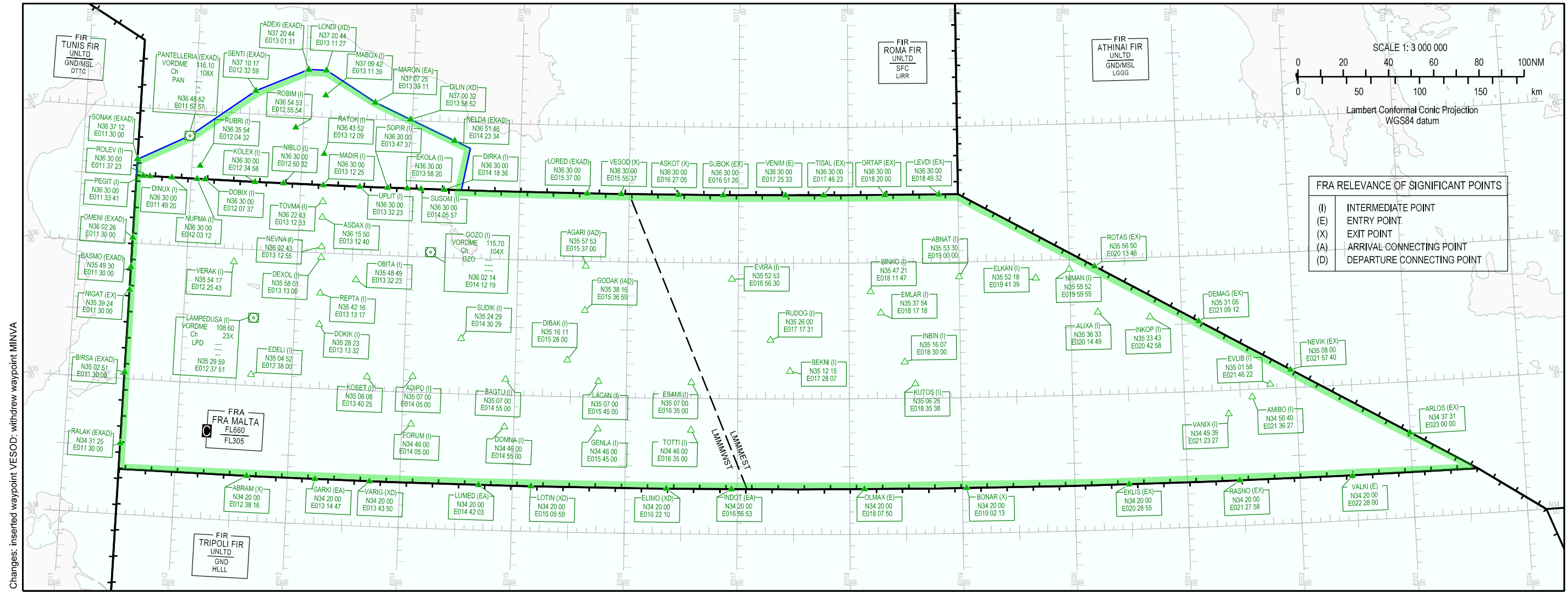
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## UPPER ATS ROUTES - MALTA UIR (EAST SECTOR)



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## **PART 3 - AERODROMES (AD)**

### **AD 0**

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Nil

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**AD 0.2      Record of AIP Amendments**

Nil

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**AD 0.3      Record of AIP Supplements**  
Nil

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**AD 0.4      Checklist of AIP pages**  
Nil

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**AD 0.5      List of Hand Amendments to the AIP**  
Nil

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**AD 1 AERODROMES/HELIPORTS - INTRODUCTION****AD 1.1 AERODROME/HELIPORT AVAILABILITY****1. General conditions for the use of aerodromes/heliports and associated facilities**

- 1.1 Runways 13 and 31 are each equipped with an Instrument Landing System which is flight checked to CAT II standards but certified for use only as CAT I.
- 1.2 State aircraft that are not equipped with FM immune VOR and/or ILS equipment in accordance with ICAO Annex 10, Vol. 10, Chapter 3, are permitted to operate in the Malta TMA and at Luqa airport provided that they carry navigational and/or landing aids that provide similar navigational and/or positional accuracy as VOR and/or ILS.

**2. Applicable ICAO documents**

- 2.1 The Standards and Recommended Practices of ICAO Annex 14, Volumes I and II, are applied without differences.

**3. Runway friction assessment**

- 3.1 The aerodrome operator is required to conduct periodic surveys of the friction characteristics of its runway surfaces, the purpose of which is to predict the need for maintenance to prevent unacceptable deterioration of grip.
- 3.2 A MU-meter device is regularly used at Luqa International Airport to determine and record continuously the runway friction coefficient. Measurements are taken on each side of the runway, as and when required, and on a scheduled basis.
- 3.3 The specified Minimum Friction Level (MFL) is **0.50 $\mu$** . When a survey indicates that the runway surface friction characteristics have deteriorated below the specified MFL then the runway shall be notified by NOTAM as a runway that *'may be slippery when wet'*.
- 3.4 When a runway is notified as *'may be slippery when wet'*, aircraft operators may request additional information relating to that notification from the aerodrome operator or relevant ATS unit. However, any performance calculations or adjustments made as a result of this information is the responsibility of the aircraft operator.
- 3.5 The additional information specified in 3.4 will be provided in accordance with the following table:

Measured coefficient ( $\mu$ )	Estimated surface friction
0.50 and above	Good
0.49 to 0.36	Medium to Good
0.35 to 0.30	Medium
0.29 to 0.26	Medium to Poor
0.25 and below	Poor

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**AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING****1. Rescue and Fire Fighting Services**

1.1 At Luqa Airport, Rescue and Fire Fighting Service is established in accordance with the regulations for civil aviation. Details of the extent of the service are given in AD 2.

1.2 Details of the categorisation of the service are given in the relevant sections and any temporary changes will be published by NOTAM.

**2. Runway surface condition assessment and reporting****2.1 Organisation of runway surface condition reporting**

2.1.1 At any point when the runway surface condition is not assessed as 'GOOD', the airport operator at the aerodrome, at which the runway surface condition reporting service is established, will conduct the following duties:

- a. Surveillance of the movement area, with a view noting the presence of water, standing water and/or slush
- b. Assessment of the runway surface condition when the runway-in-use surface is contaminated with water, standing water and/or slush (eliminating references to ice/frost/snow) and, as far as possible, taxiways and aprons.
- c. Implementation of measures to maintain the usability of the runways, etc.
- d. Reporting of the conditions mentioned in item (b) above.

2.1.2 Notwithstanding the above conditions, ATIS (arrival and departure) transmissions will transmit the runway surface condition as 'GOOD'.

**2.2 Surveillance of movement areas**

2.2.1 The airport operator monitors the conditions of the movement area within the published aerodrome hours of service.

**2.3 Measuring methods and measurement taken**

2.3.1 Runway 13/31 and Runway 23/05 are equipped with rainfall rate type sensors and in-pavement sensors installed on each runway which support Runway Condition Code algorithms and correlation data to refine the analysis.

2.3.2 The data output from these sensors provides means by which the following information is established:

- a. Runway surface temperature
- b. Percentage of each runway third that is covered by contaminant(s)
- c. Type and depth of contaminant(s)
- d. Reporting of runway surface condition code

2.3.3 Data is collected and assessed for each runway third using the Runway Condition Assessment Matrix to generate the Runway Condition Code for each runway third.

2.3.4 When deemed necessary, the aerodrome operator employs the following additional methodologies to supplement and correlate information derived from meteorological sensors:

- a. Continuous friction measuring equipment (CFME):
  - i. This method employs a trailer towed by an aerodrome vehicle at 65km/hr to produce a continuous register of the mean friction values along the runway.

- b. Braking action testing decelerometer
  - i. An assessment is made of the coefficient of friction using a brake testing decelerometer fitted in an aerodrome vehicle that produces braking coefficient data.
  - ii. A standard procedure together with markings located on runways are provided to ensure technique uniformity.
- c. Contaminant depth measurement
  - i. Manual measurements are taken to determine the contaminant depth along the runway.

2.3.5 CFME and braking action tests, when executed, are made over the usable length of the runway at approximately 3m each side of the centreline and in such a manner as to establish mean friction values along the expected aircraft wheel track along the usable length of the runway.

## **2.4 Actions taken to maintain the usability of the movement area**

2.4.1 Runways, taxiways and aprons are designed to naturally drain surface water from the top of the pavement surface until it reaches the storm-water infrastructure. Limitations on the use of the runway including temporary closures may be imposed when natural drainage methods fail to relieve standing water contamination contributing to runway conditions codes of 1 or 2, as may be the case during persistent inclement weather conditions.

2.4.2 To the extent possible and where practical, when the surface contaminant predominantly constitutes of hail or slush, attempts will be made by the aerodrome operator to clear contaminants within a distance of 15m either side of the runway centreline.

2.4.3 Inspections of the storm-water system, including open culverts and spillways, is carried out every 6 months and covers storm water catchment systems serving the following:

- a. Runway 13/31
- b. Runway 23/05
- c. Taxiways and Aprons

## **2.5 System and means of reporting**

2.5.1 The meteorological service infrastructure provided by the aerodrome operator provides means of collecting, analyzing and reporting runway surface condition which is communicated continuously to Air Traffic Control Officers and to air crew via ATIS on 127.4 MHz (Arrivals) and 127.0 MHz (Departures).

2.5.2 Reporting of runway surface condition code may also be carried out via radiotelephony transmission.

2.5.3 When sustained rainfall conditions result in excess of 25% of runway surface contamination and exceeding 2.5 mm of depth, the runway surface condition will be additionally communicated via SNOWTAM.

2.5.4 When water, standing water and/or slush which trigger the promulgation of a SNOWTAM no longer prevail, the issuance of an upgrade SNOWTAM is submitted.

2.5.5 Runway condition information is reported relative to the lower runway designation number for each third of runways in use.

2.5.6 The following definitions have been adopted for runway surface condition communicated via ATIS and SNOWTAM:

- a. Dry: A runway surface that is visibly free of moisture and not contaminated within the area intended to be used
- b. Wet: A runway surface that is covered by any visible dampness or water that is 2.5mm or less in depth
- c. Slippery Wet: Water of depth more than 2.5mm
- d. Slush: Snow that is so water saturated that water would drain from it when a handful is picked up or will splatter if stepped on forcefully

- 2.5.7 The extent of water, standing water and/or slush on a runway is reported based on an estimate of the covered area (third) and given as a percentage of the total area of the runway third, according to the following:

Assessed Percent Coverage	Reported Percent Coverage
<10	NR
10 - 25	25
26 - 50	50
51 - 75	75
76 - 100	100

- 2.5.8 Information on the runway surface condition communicated on the basis of a runway condition code is associated with the following estimated surface friction value:

RCAM Friction Range ( $\mu$ )	Estimated Surface Friction	RCAM Condition Code
0.40 and above	Good	5
0.39 – 0.36	Medium / Good	4
0.35 – 0.30	Medium	3
0.29 – 0.26	Medium / Poor	2
0.25 and below	Poor	1

- 2.5.9 Details of the RCAM Friction Range ( $\mu$ ) will not form part of the Runway Surface Condition Report.

## 2.6 Cases of runway closure

- 2.6.1 In cases when either of the following conditions results in a significant risk of a deteriorating situation, the airport operator is authorized to demand that sections of the movement areas be closed to aircraft traffic:

- When a drop in temperature may cause water to turn into slush which significantly reduces the runway condition code level.
- When significant or persistent rainfall results in the flooding of the movements areas.
- Runway contaminant clearance activities.

## 2.7 Distribution of information about runway surface conditions

- 2.7.1 The airport operator is responsible for reporting changes in the condition of movement areas to:

- The ATS unit at the aerodrome responsible for providing flight information service, and
- The AIS unit on the aerodrome designated to receive such information for briefing purposes and for dissemination to all to whom the information is of direct operational significance.

- 2.7.2 When triggered, runway surface conditions are reported via ATIS (departure and arrival) when water on a runway 3mm or less not associated with slush is present and when warranted, runway surface conditions when contaminants exceeding 3mm depth levels are also reported via SNOTAM.

- 2.7.3 When runways, taxiways and aprons are closed due to the runway surface condition code reaching 1 or 2, the airport operator will issue a NOTAM to the ATS unit, detailing the period when such a closure is effective.

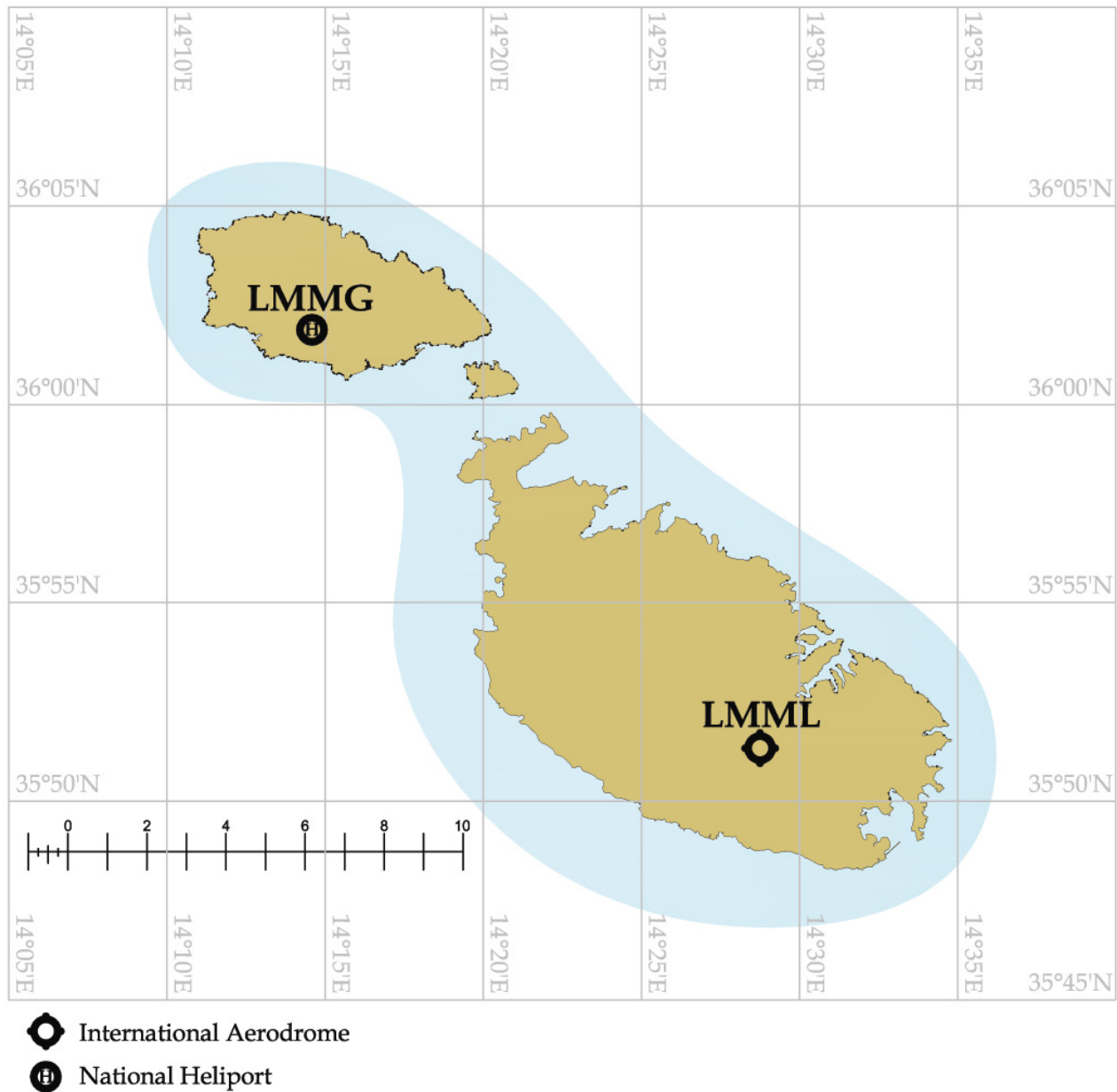
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## AD 1.3 INDEX TO AERODROMES/HELIPORTS

AD/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
<b>Aerodromes</b>				
LUQA LMML	INTL-NTL	IFR-VFR	S-NS-P	AD 2 LMML
<b>Heliports</b>				
GOZO HELIPORT LMMG <sup>1</sup>	NTL	VFR	NS-P (see note below)	AD 3 LMMG
1. This location indicator cannot be used in the address component of AFS messages.				

Prior written permission for the use of the Gozo Heliport by any operator is to be requested, and obtained, from Gozo Heliport Ltd. Further details may be found in section AD 3.

Figure 1. AERODROMES AND HELIPORTS INDEX - CHART





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**AD 1.4      GROUPING OF AERODROMES/HELIPORTS**

**1.            International aerodrome**

1.1            Luqa Airport is the only aerodrome 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 H24 basis.

**2.            National heliport**

2.1            Gozo Heliport is unlicensed and available for domestic helicopter traffic only.

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**AD 1.5 STATUS OF CERTIFICATION OF AERODROMES****1. Certified Aerodromes**

- 1.1 According to Regulation (EC) 216/2008 of the European Parliament and of the Council Commission Regulation (EU) 139/2014 and Legal Notice 80 of 2004, the following aerodrome has been certified by CAD-TM:

<i>Aerodrome Location Indicator Aerodrome reference code</i>	<i>Date of certification</i>	<i>Validity of certification</i>	<i>Remark</i>
1	2	3	4
LUQA International Airport LMML 4E	DEC 2017	Perpetual	Certified by CAD-TM

**2. LMML Deviations from Certification Specifications**

<i>Deviation Type</i>	<i>Location</i>	<i>Reference</i>	<i>Description</i>
1	2	3	4
<b>Special Condition</b>	RWY 05	TM/CAD/CB/SC/LMML/001/211217	Following landing on Runway 05, visibility along the LDA may be limited to the runway midpoint.
		TM/CAD/CB/SC/LMML/002/211217	Longitudinal slope of the graded portion may exceed the 1.5% requirement.
		TM/CAD/CB/SC/LMML/003/211217	The 2.5% transverse slope requirement may be exceeded in the proximity of RWY 05.
		TM/CAD/CB/SC/LMML/005/211217	Transitional surface to the starboard side marginally breached at the initial 385m of the runway by the airfield fence line and vegetation.
	RWY 23	TM/CAD/CB/SC/LMML/001/211217	Following landing on Runway 23, the last 565m of the LDA may not be visible.
		TM/CAD/CB/SC/LMML/002/211217	Longitudinal slope of the graded portion may exceed the 1.5% requirement.
		TM/CAD/CB/SC/LMML/003/211217	The 2.5% transverse slope requirement may be exceeded in the proximity of RWY 05.
		TM/CAD/CB/SC/LMML/005/211217	Transitional surface to the port side marginally breached at the final 385m of the runway by the airfield fence line and vegetation.
	RWY 13	TM/CAD/CB/SC/LMML/002/211217	Longitudinal slope of the graded portion may exceed the 1.5% requirement.
	RWY 31	TM/CAD/CB/SC/LMML/002/211217	Longitudinal slope of the graded portion may exceed the 1.5% requirement.
<b>Deviation Acceptance and Action Document</b>	LMML	DAAD-06	Runway guard lights unavailable at the following holding points: A, H, J, K, L, P, Q, R, S and Z.
		DAAD-08	Minor deviations to ground lighting chromaticity may be expected.
	RWY 13/31	DAAD-05	The operation of stop bars on the runway holding points are not interlocked with operation of the taxiway centreline lights.

<i>Deviation Type</i>	<i>Location</i>	<i>Reference</i>	<i>Description</i>
1	2	3	4
<b>Equivalent Level of Safety</b>	Apron 2	TM/CAD/CB/ELoS/ LMML/001/211217	Blue surface markings provided on these Aprons.
	Apron 3		
	Apron 9		
	RWY 05	TM/CAD/CB/ELoS/ LMML/002/290121	Simple Approach Lighting System for Runway 23/05 limited to 180 M. Runway Threshold Identification Lights provided at both Thresholds.
	RWY 23		
	RWY 13	TM/CAD/CB/ELoS/ LMML/003/290121	Precision Approach Lighting System for Runway 13 (CAT I) limited to 810 M.
	TWY D	TM/CAD/CB/ELoS/ LMML/004/290121	Code E and F aircraft taxiing along Taxiway Delta may experience reduced main gear clearance from the taxiway edge. Hard shoulder along taxiway edge provided.
	TWY K	TM/CAD/CB/ELoS/ LMML/005/290121	Due to topographic limitations, the information markings provided on Taxiways K, L and P are limited to a 2 M inscription height.
	TWY L		
	TWY P		

**AD 2 . AERODROMES****LMML — LUQA/International****LMML AD 2.1 AERODROME LOCATION INDICATOR AND NAME**

LMML — LUQA/International

**LMML AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP co-ordinates and site at AD	35°51'27.15" N 014°28'38.78" E BRG 313° (MAG) / 175 M from THR RWY 13
2	Direction and distance from Valletta	215°, 5 KM from Valletta
3	Elevation/Reference temperature	297 FT / 31.9° C
4	MAG VAR	3° 02' E 2017; annual rate of change: 6' E
5	AD Administration, address, telephone, fax, AFS, SITA	<div> Chief Executive Officer  Malta International Airport  Luqa LQA 4000  Malta  Phone: (356) 21 24 96 00  Fax: (356) 21 24 95 63 </div> <div> Head of Airport Operations  Malta International Airport  Luqa LQA 4000  Malta  Phone: (356) 23 69 65 32  Phone: (356) 99 42 41 90  Fax: (356) 21 24 95 64  Email: martin.dalmas@maltairport.com  SITA: MLAHKXH@maltairport.avinetmail.net </div> <div> MIA Duty Officer  Malta International Airport  Luqa LQA 4000  Malta  Phone: (356) 23 69 63 81  Phone: (356) 99 43 09 78 / 9 </div> <div> Schedule Facilitation  c/o Malta International Airport  Luqa LQA 4000  Malta  Phone: (356) 23 69 66 17  Phone: (356) 23 69 62 19  Email: scm@maltairport.com  SITA: MLASLXH@maltairport.avinetmail.net </div>
6	Types of traffic permitted (IFR/VFR)	IFR/VFR
7	Remarks	Nil

## LMML AD 2.3 OPERATIONAL HOURS

1	AD Administration	Malta International Airport MON – FRI: 0800 LT – 1700 LT Duty Officer: H24
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	Remarks	Nil

## LMML AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Lift trucks, cargo loaders, various vehicles and equipment
2	Fuel types	JET A1 and AVGAS 100LL
3	Fuelling facilities/capacity	Various fuelling trucks JET A1; Storage for 15,550,000 litres. AVGAS 100LL; Storage for 40,000 litres Fuel is provided by: <b>ENEMED Co. Ltd.</b> (356) 2124 4480 <b>SKYTANKING Ltd.</b> (JET A1) (356) 2169 6992 / 2169 6993
4	Hangar space for visiting aircraft	<b>Gulf Med Aviation Services</b> available by prior request only for up to Code B aircraft. Email: info@gulfmedaviation.com
5	Repair facilities for visiting aircraft	<p><b>Lufthansa Technik Malta</b> - B737-300/400/500/600/700/800 series, A319/320/321 series, A330-200/300 series and A340-200/300/500/600 series.</p> <p><b>Medavia</b> - EASA Part 145 and FAA Line and Base Maintenance approvals for the following types:</p> <ul style="list-style-type: none"> <li>• DHC-6 Twin Otter</li> <li>• DHC-8 100/200/300/400 Dash 8</li> <li>• B200 King Air</li> <li>• B1900 Airliner</li> <li>• ATR42-200/300/400/500</li> <li>• ATR72-100/200</li> </ul> <p>NDT all disciplines and support workshops. Hangarage available up to Code C aircraft. Email: maintenance@medavia.com.mt Phone: (356) 9923 3926</p> <p><b>Maintenance Centre Malta</b> - Business Jets and Regional Aircraft Maintenance in an EASA Part 145 approved AMO: Cessna: 206, 500/501, 525 (CJ1, CJ2 &amp; CJ3), 550/551, 550B, 560, 560XL, 560XLS &amp; 680. Bombardier LearJet: LJ 35/36, 40/45, 55 &amp; 60 Bombardier Challenger: CL 300, 600, 601, 604, 605 &amp; 850 (CL 600-2B16/19) Bombardier Global Express: Global 5000, Global XRS Gulfstream: 500/550 Hawker Beechcraft 200 series.</p> <p><b>SR Technics Malta Ltd</b> - Line and Base Maintenance capability for A318/319/320/321 series with CFM56 / IAE V2500 engines, A319/320/321 NEO with CFM LEAP-1A engines and B737-600/700/800/900 with CFM56 engines.</p> <p><b>Gulf Med Aviation Services</b> - EASA Part 145 Line and Base Maintenance for Leonardo Helicopters AW139, Airbus Helicopters EC135, Bell Helicopters Textron B412. Email: info@gulfmedaviation.com</p>

		<p><b>Aviation Cosmetics Malta</b> (ACM) operates a painting facility consisting of:</p> <ul style="list-style-type: none"> <li>• a wide body hangar suitable for all aircraft up to Code F</li> <li>• a narrow body hangar suitable for all aircraft up to Code C</li> </ul> <p>The hangars are equipped with state-of-the-art air treatment and climate control installations and the wide body hangar features custom-build suspended scaffolding which allows full and unhindered access to the aircraft being painted, regardless of make or model. Email: sales@acmalta.com</p>
		<p><b>Bravo Aircraft Technical Services</b> (BATS) part of "SUM AVIATION GROUP"</p> <ul style="list-style-type: none"> <li>• Approving authorities: EASA, ARUBA, CAYMAN, 2REG, TURKISH, BERMUDA.</li> <li>• Capabilities: LINE / BASE limited to paint including NDT and sheetmetal repairs and towing.</li> <li>• Types coverage: A320 CEO/NEO, A330, A340, B737CL/NG/MAX, B757, B767, B777, B787.</li> <li>• Contact: AOG (356) 2778 0498; aog@batsaero.com</li> </ul>
6	Ramp Ground Handling Service Providers	<p><b>Airmalta Aviation Services Ltd.</b> Old Airport Terminal St Thomas Street Luqa LQA9036 Malta Contact: Jeanel Borg / George Aquilina Ground Handling Slot Coordinator and DCS Administrator Phone: (356) 2395 1152 Phone: (356) 2395 1293 Email: handling@aasmalta.com URL: https://aasmalta.com/</p> <p><b>Aviaserve Ltd.</b> P.O.BOX 11 Malta International Airport Luqa LQA4000 Malta Contact: Joe Bugeja Chief Officer Operations Phone: (356) 2369 6420 Phone: (356) 7962 6213 Fax: (356) 2369 6422 SITA: MLAGGXH Email: jbugaja@aviaserve.eu URL: www.aviaserve.eu</p>

7	GA Third Party Handling	<b>DC Aviation Ltd. obo Airmalta Aviation Services Ltd.</b> Malta International Airport P.O. BOX 23, Gudja, LQA 5000, Malta Contact: Sandy Cassar Cardona FBO Manager Phone: (356) 2369 6059 Phone: (356) 2137 5973 Email: dispatch@dc-aviation.com.mt URL: https://www.dc-aviation.com.mt
		<b>Executive Aviation Malta obo Airmalta Aviation Services Ltd.</b> Contact: Andrea Trapani Managing Director Gate 1, Apron 3 General Aviation Park Malta International Airport, Luqa, Malta Phone: (356) 9990 0747 Email: ops@executivefbo.com URL: www.executivefbo.com
		<b>Mediterranean Aviation Co. Ltd.</b> <b>Medavia Ground Handling Services obo Airmalta Aviation Services Ltd.</b> Safi Aviation Park, Carmelo Caruana Road, Safi, Malta Contact: Daren Peplow Ground Handling & Charter Sales Manager Phone: (356) 2249 0120 Email: flightops@medavia.com.mt URL: http://www.medavia.com
8	Fuel Ground Handling Service Providers	<b>Enemed Co. Ltd.</b> 31 <sup>st</sup> March 1979 Installation, Sacred Heart Promenade, Birzebbugia, BBG 1604, Malta Contact: Ing. Allan Micallef Chief Corporate Officer Phone: (356) 2220 8204 Email: allan.v.micallef@enemed.com.mt URL: www.enemed.com.mt
		<b>Skytanking Ltd.</b> 53, Tanks Street, Birzebbugia, BBG 1719, Malta Contact: Gabriele Valzecchi General Manager Phone: (356) 2169 6992 Phone: (356) 2169 6993 Phone: (356) 7969 6997 Email: gabriele.valzecchi@skytanking.com URL: http://www.skytanking.com
9	Remarks	<i>Note: Operators requesting an airport slot at MIA are expected to indicate their preferred ground handler. Whenever a handler is not indicated, one will be assigned to the respective movement by MIA.</i>



		OPC frequencies (MHz) are assigned to the following operators:	
		Air Malta Operations	131.450
		Air Malta Engineering	131.650
		Airmalta Aviation Services	131.965
		ARINC	131.975
		Aviaserve Ltd	131.675
		DC Aviation	131.875
		Diamond Training	131.900
		European Pilot Academy	131.850
		Executive Aviation Malta	131.775
		Gulf Med Aviation Services	131.500
		Lufthansa Operations	131.925
		Malta School of Flying	131.600
		Mater Dei Hospital	131.800
		Medavia International Operations	131.400

**LMML AD 2.5 PASSENGER FACILITIES**

1	Hotels	Adequate accommodation at a short distance from the airport
2	Restaurants	Restaurants, buffet and aircraft catering at AD
3	Transportation	Buses, taxis and car hire from the AD
4	Medical facilities	First aid at AD, hospitals in Malta
5	Bank and Post Office	Major banks and Foreign exchange (H24) Post office is open from Monday to Saturday between 0730 and 1245 (LT)
6	Tourist Office	Tourist information office
7	Remarks	Nil

**LMML AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	H24: CAT 9
2	Rescue equipment:	
	<i>Utility Vehicle and Light trailer:</i>	<p>1 x Peugeot Partner Utility vehicle containing the following items:</p> <ul style="list-style-type: none"> <li>• Shovels</li> <li>• Brooms</li> <li>• Sand</li> <li>• Absorbent material</li> <li>• Detergent</li> <li>• Tarp which can also be converted into a 125 L catchment tray</li> <li>• Filter masks</li> <li>• Disposable gloves</li> <li>• Chemical gloves</li> <li>• Half face filter masks</li> <li>• Cones</li> <li>• Tyvek Suits</li> <li>• Disinfectant wipes</li> <li>• Multi-purpose ladder</li> </ul> <p>Items on Light Trailer:</p> <ul style="list-style-type: none"> <li>• Generator</li> <li>• Flood lights</li> <li>• Multi-purpose pump</li> <li>• Cones</li> </ul>
	<i>Fire Station:</i>	Stretcher trolley x 1

	<i>Fire Fighting Vehicles:</i>	<p>Rosenbauer Panther A-146 6x6 (x2):</p> <ul style="list-style-type: none"> <li>• Water Capacity (l): 12,500 (each)</li> <li>• Foam Concentrate Capacity (l): 1,500 (each)</li> <li>• Maximum Solution Discharge rate (l/min): 8,000 @ 10 bar (each)</li> <li>• Dry Powder (kg): 225 (each)</li> <li>• CO2 Trolley (kg): 10 (each)</li> <li>• Breathing Apparatus: 3 complete (each)</li> <li>• Auxiliary Equipment: Various (each)</li> </ul>
		<p>Rosenbauer Panther A-148 8x8 (x1):</p> <ul style="list-style-type: none"> <li>• Water Capacity (l): 15,000</li> <li>• Foam Concentrate Capacity (l): 1,800</li> <li>• Maximum Solution Discharge rate (l/min): 10,000 @ 10 bar</li> <li>• Capability: High reach extendable turret with piercing tool</li> <li>• Dry Powder (kg): 225</li> <li>• CO2 portable fire extinguishers (kg): 9 (x2)</li> <li>• Breathing Apparatus: 3 complete</li> <li>• Auxiliary Equipment: Various</li> </ul> <p>Rosenbauer Buffalo RIV 2800/3000 (x1):</p> <ul style="list-style-type: none"> <li>• Water Capacity (l): 2,500</li> <li>• Foam Concentrate Capacity (l): 300</li> <li>• Maximum Solution Discharge rate (l/min): 2,800 @ 10 bar</li> <li>• Dry Powder (kg): 250</li> <li>• Breathing Apparatus (kg): 3 complete</li> <li>• Lukas Rescue Set: Complete</li> <li>• Ancillary Equipment: Various</li> <li>• Radioactive Survey Meter: Alnor RDS for 100/1</li> <li>• Thermal Image Camera</li> </ul>
	<i>Portable Pump:</i>	Fire fighting Nissan Trailer pump (x1)
3	Capability for removal of disabled aircraft	Various tools are available for this purpose
4	Remarks	The frequency 121.700 MHz is reserved for use by airport emergency services for aerodrome surface communications between fire services and aircraft on the ground.

## LMML AD 2.7 SEASONAL AVAILABILITY — CLEARING

1	Types of clearing equipment	Not applicable
2	Clearance priorities	Not applicable
3	Remarks	Nil

## LMML AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Apron 2	PCN 65/F/B/X/U Up to Code C
		Apron 3	PCN 45/R/B/X/U General Aviation up to Code C
		Apron LTM	PCN 100/R/A/W/T Parking up to Code F reserved for LTM maintenance operations
		Apron 5	PCN 40/F/C/Y/U Up to Code A
		Apron 7	PCN 50/F/D/X/U AFM ramp
		Apron 8	PCN 45/R/B/Y/U Up to Code D
		Apron 9	PCN 100/F/B/X/U Up to Code F
		Apron SAP	PCN 100/F/B/X/U

2	Taxiway data	<i>TWY:</i>	<i>TWY width, TWY surface and strength</i>
		TWY A, B	25M, PCN 100/F/B/X/U
		TWY C, D, E and F	23M, PCN 100/F/B/X/U
		TWY G	10.5M, PCN 50/F/B/Y/U
		TWY H, H South	23M, PCN 100/F/B/X/U
		TWY J	15M, PCN 80/F/C/X/U
		TWY K	18M, PCN 80/F/C/X/U
		TWY L	18M, PCN 65/F/B/X/U
		TWY P	15M, PCN 50/F/D/X/U
		TWY Q	18M, PCN 50/F/D/X/U
		TWY R	18M, PCN 65/F/B/X/U
		TWY S	25M, PCN 100/F/B/X/U
		TWY Z	45M, PCN 75/F/D/X/U
		<i>Taxilane:</i>	<i>Taxilane surface and strength</i>
		Taxilane B	PCN 100/F/B/X/U
		Taxilane G	PCN 50/F/B/Y/U
		Taxilane I	PCN 45/R/B/Y/U
		Taxilane N	PCN 45/F/C/X/U
		Taxilane O	PCN 65/F/B/X/U
		Taxilane P	PCN 50/F/D/X/U
		Taxilane P Inner	PCN 40/F/C/Y/U
		Taxilane T, U, V, W and X	PCN 100/F/B/X/U
3	Altimeter check location and elevation	Location:	The stand area immediately in front of the Terminal building on Apron 9
		Elevation:	243 FT
4	INS Checkpoints	See INS Checkpoints table below	
5	Remarks	Nil	

INS CHECKPOINTS							
Aircraft Stand		WGS 84 co-ordinates		Aircraft Stand		WGS 84 co-ordinates	
APRON 2			APRON 3				
1	355133.30 N	0142837.39 E	1	355129.19 N	0142825.12 E		
2	355134.19 N	0142836.28 E	2	355130.23 N	0142825.10 E		
3	355135.08 N	0142835.17 E	3	355131.26 N	0142825.08 E		
4	355135.98 N	0142834.06 E	4A	355132.01 N	0142824.99 E		
5	355136.87 N	0142832.96 E	5A	355132.50 N	0142824.60 E		
6	355137.76 N	0142831.85 E	6A	355132.99 N	0142824.21 E		
7	355138.66 N	0142830.75 E	7A	355133.47 N	0142823.82 E		
8	355139.55 N	0142829.64 E	8A	355133.96 N	0142823.42 E		
9	355140.54 N	0142831.97 E	9A	355134.45 N	0142823.03 E		
10	355139.35 N	0142833.45 E	10B	TO BE SURVEYED			
11	355138.15 N	0142834.57 E	11B	TO BE SURVEYED			
12	355136.98 N	0142836.60 E	13A	355128.29 N	0142825.46 E		
13	355136.01 N	0142838.47 E	14C	355129.79 N	0142825.14 E		
14	355134.92 N	0142839.94 E	APRON LTM				
15C	355137.45 N	0142836.50 E	1A	355123.00 N	0142815.52 E		
16C	355136.42 N	0142838.97 E	1B	355120.87 N	0142812.01 E		
17C	355134.47 N	0142840.53 E	APRON 5				
			3-11	TO BE SURVEYED			

INS CHECKPOINTS						
Aircraft Stand	WGS 84 co-ordinates			Aircraft Stand	WGS 84 co-ordinates	
APRON 8				APRON 9		
1	355113.52 N	0142908.62 E		10	355049.15 N	0142939.50 E
2	355115.19 N	0142906.58 E		11	355050.55 N	0142937.79 E
3	355116.89 N	0142904.56 E		12	355052.12 N	0142935.82 E
4	355118.56 N	0142902.49 E		13	355053.51 N	0142934.10 E
5	355120.21 N	0142900.44 E		14	355055.18 N	0142931.87 E
6	355122.33 N	0142858.33 E		14X	355054.85 N	0142931.46 E
APRON 9				15	355056.17 N	0142932.12 E
1	355059.90 N	0142933.98 E		16	355055.43 N	0142933.26 E
1R	355058.87 N	0142934.70 E		17	355054.48 N	0142934.71 E
2	355058.74 N	0142936.09 E		18	355053.70 N	0142936.03 E
3	355057.05 N	0142938.19 E		18X	355052.44 N	0142934.50 E
4	355055.30 N	0142940.36 E		19	355052.63 N	0142937.00 E
5	355053.60 N	0142942.48 E		20	355051.60 N	0142938.50 E
6	355051.99 N	0142944.60 E		21	355050.71 N	0142939.69 E
7	355049.14 N	0142947.33 E		21X	355049.47 N	0142938.18 E
8	355049.71 N	0142947.04 E		22	355049.76 N	0142940.80 E
8L	355049.83 N	0142946.03 E		23	355048.49 N	0142941.87 E
9	355047.34 N	0142941.58 E		24	355047.56 N	0142942.79 E
9X	355047.05 N	0142941.22 E				

## LMML AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and guide lines on aircraft stands	Lighted aircraft stand ID signs on Apron 9 Standard markings
2	RWY and TWY markings	Threshold, centreline and runway designators – all runways Touchdown zone markings – all runways Aiming points – all runways Edge markings – RWY 13/31 only Taxiway holding positions – all taxiways Taxiway centrelines – all taxiways
3	Holding points	All taxiways
4	Remarks	Nil

## LMML AD 2.10 AERODROME OBSTACLES

In circling area and at AD					
OBST ID/ Designation	OBST Type	OBST position	ELEV (FT)	Markings/ Type, colour	Remarks
a	b	c	d	e	f
LMMLOB001	ATC Tower 1	355113.03N 0142838.44E	358.79		
LMMLOB002	Building (Portomaso)	355519.32N 0142932.25E	444.36	LGTD	
LMMLOB003	Building (Barumbara Siġġiewi)	354952.46N 0142624.49E	474.97		
LMMLOB004	Building (Palace Verdala)	355142.01N 0142401.97E	812.80	LGTD	
LMMLOB005	Building (Verdala Mansions)	355241.73N 0142412.25E	750.49		
LMMLOB006	Chapel (San Niklaw Siġġiewi)	355006.98N 0142628.90E	470.90		
LMMLOB007	Chapel (Ta' Loretu)	355030.00N 0143002.45E	314.71	LGTD	
LMMLOB008	Church (Luqa)	355137.24N 0142920.14E	379.23	LGTD	

In circling area and at AD					
OBST ID/ Designation	OBST Type	OBST position	ELEV (FT)	Markings/ Type, colour	Remarks
a	b	c	d	e	f
LMMLOB009	Church (Notabile Cathedral)	355311.06N 0142414.94E	771.85	LGTD	
LMMLOB010	Church (Qrendi)	355004.02N 0142726.69E	462.89		
LMMLOB011	Church (Safi)	355001.82N 0142900.96E	411.06		
LMMLOB012	Church (Siggiewi)	355116.84N 0142616.99E	528.42		
LMMLOB013	Church (Żebbug)	355216.61N 0142632.19E	427.23		
LMMLOB014	Church (Żurrieq)	354949.84N 0142830.71E	462.17		
LMMLOB021	Mast (Hal Far)	354856.00N 0143047.00E	298.55	LGTD	
LMMLOB023	Mast (Nigret 1)	354921.97N 0142822.23E	568.11		
LMMLOB024	Mast (Nigret 2)	354922.74N 0142826.15E	565.35		
LMMLOB025	Mast (Nigret 3)	354925.03N 0142823.45E	570.60		
LMMLOB026	Mast (Nigret 4)	354919.41N 0142823.46E	524.11		
LMMLOB027	Mast (Ta' Kandja 1)	355111.51N 0142709.45E	413.68	LGTD	
LMMLOB028	Mast (Ta' Kandja 2)	355108.16N 0142715.40E	432.58	LGTD	
LMMLOB029	Mast (Ta' Kandja 3)	355105.69N 0142710.15E	433.96	LGTD	
LMMLOB030	Mast (Ta' Kandja 4)	355102.01N 0142706.88E	447.90	LGTD	
LMMLOB031	Mast (Ta' Kandja 5)	355101.19N 0142702.47E	456.79	LGTD	
LMMLOB032	Mast (Ta' Kandja 6)	355054.72N 0142706.59E	387.83	LGTD	
LMMLOB033	Mast (Ta' Kandja 7)	355054.94N 0142708.30E	391.83	LGTD	
LMMLOB034	Mast (Ta' Kandja 8)	355055.28N 0142702.95E	465.88	LGTD	
LMMLOB035	Mast (Ta' Kandja 9)	355056.64N 0142705.16E	390.52	LGTD	
LMMLOB036	Mast (Ta' Kandja 10)	355054.39N 0142708.14E	391.73	LGTD	
LMMLOB037	Mast (Ta' Kandja 11)	355104.65N 0142656.14E	476.27	LGTD	
LMMLOB038	Mast (Ta' Kandja 12)	355059.62N 0142704.14E	393.67	LGTD	
LMMLOB039	Mast (Ta' Kandja 13)	355058.59N 0142657.06E	464.86	LGTD	
LMMLOB040	Mast (Madliena Melita)	355548.03N 0142745.56E	527.49	LGTD	
LMMLOB041	Mast (Madliena AFM)	355551.56N 0142740.59E	525.46	LGTD	
LMMLOB042	Monument (Laferla Cross)	355100.84N 0142459.81E	797.15		
LMMLOB043	Radar Dome (Dingli)	355109.28N 0142253.81E	923.75	LGTD	
LMMLOB044	Reservoir (San Niklaw)	355015.60N 0142653.13E	450.82		
LMMLOB045	Reservoir (Schinas Tower)	355144.76N 0142856.54E	275.07		
LMMLOB046	Mast (Searidge 1)	355106.94N 0142744.63E	342.75	LGTD	
LMMLOB047	Mast (Searidge 2)	355035.63N 0142934.41E	281.43	LGTD	
LMMLOB048	Terrain (Ġebel Ciantar)	355031.92N 0142454.65E	773.71		
LMMLOB049	Terrain (Nigret Żurrieq)	354914.78N 0142821.14E	465.62		
LMMLOB050	Terrain (Faqqanija Siggiewi)	355043.50N 0142348.20E	829.48		
LMMLOB051	Terrain (Qasam il-Kbir - Qrendi)	354951.28N 0142619.64E	458.12		
LMMLOB052	Tower (Mtarfa)	355334.91N 0142400.78E	734.88	LGTD	
LMMLOB053	TV Antenna (Għargħur)	355502.70N 0142650.37E	619.78	Marked / LGTD	

In circling area and at AD					
OBST ID/ Designation	OBST Type	OBST position	ELEV (FT)	Markings/ Type, colour	Remarks
a	b	c	d	e	f
LMMLOB054	TV Antenna (Net)	355439.38N 0142727.14E	649.80	LGTD	
LMMLOB055	TV Antenna (Targa Gap)	355447.52N 0142441.28E	629.76	LGTD	
LMMLOB056	Radar Dome (Fawwara)	355031.80N 0142456.00E	906.00	LGTD	
LMMLOB057	Radar Dome (Hal Far)	354917.37N 0143017.36E	394.00	LGTD	
LMMLOB058	Hangar 1 (Lufthansa)	355122.32N 0142811.72E	363.00	LGTD	
LMMLOB059	Hangar 2 (Lufthansa)	355124.09N 0142814.65E	363.00	LGTD	
LMMLOB060	Hangar 3 (Lufthansa)	355125.35N 0142818.06E	346.00	LGTD	
LMMLOB061	Hangar 4 (Lufthansa)	355137.07N 0142841.02E	327.00	LGTD	
LMMLOB062	Reservoir (Schinas)	355139.35N 0142852.55E	259.32		
LMMLOB071	TV Antenna (Go)	355242.73N 0143327.82E	362.50	LGTD	
LMMLOB072	Tower Crane (Luqa)	355157.80N 0142929.62E	311.68	LGTD	
LMMLOB073	Trees	355027.68N 0142708.74E	404.43		
LMMLOB074	Tree	355044.98N 0142731.13E	325.43		
LMMLOB075	Tree (Gum Tree 1)	355031.90N 0142706.88E	383.79		
LMMLOB076	Tree (Gum Tree 2)	355035.81N 0142720.27E	367.36		
LMMLOB077	Tree (Gum Tree 3)	355045.58N 0142730.20E	326.02		
LMMLOB078	Tree (Gum Tree 4)	355139.91N 0142904.27E	272.74		
LMMLOB079	Tree (Cypress Tree)	355143.16N 0142859.88E	270.24		
LMMLOB080	Tree (Palm Tree)	355137.88N 0142902.47E	262.53		
LMMLOB081	Pole	355043.50N 0142731.10E	330.38		
LMMLOB082	Sign (LIDL Sign)	355138.35N 0142903.70E	259.22		
LMMLOB084	Mast (Searidge 3)	355018.09N 0142955.14E	275.47	LGTD	
LMMLOB085	Cranes (Malta Freeport T1 - 1)	354916.24N 0143202.70E	471.00	LGTD	Cranes Malta Freeport extended obstacle boundary area.
LMMLOB086	Cranes (Malta Freeport T1 - 4)	354903.80N 0143220.74E	471.00	LGTD	
LMMLOB087	Cranes (Malta Freeport T2 - 2)	354919.39N 0143236.51E	471.00	LGTD	
LMMLOB088	Cranes (Malta Freeport T2 - 3)	354909.71N 0143247.95E	471.00	LGTD	

#### LMML AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	LUQA (MWO)
2	Hours of service	H24
3	Office responsible for TAF preparation Periods of validity	LUQA 24 HR
4	Type of landing forecast Interval of issuance	TAF (long range) every 6 hours and valid for 24 hours TREND every 30 minutes with 2 hours validity and broadcast on ATIS METAR every 30 minutes and broadcast on ATIS SPECI METAR as required and broadcast on ATIS
5	Briefing/consultation provided	P

6	Flight documentation Language used	C English
7	Charts and other information available for briefing or consultation	S, U, P, W, T
8	Supplementary equipment available for providing information	Weather Radar METEOSAT Briefnet
9	ATS units provided with information	Luqa TWR Luqa APP Malta ACC
10	Additional information (limitation of service, etc.)	Nil

**LMML AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

RWY Designator	TRUE BRG	Dimensions of RWY (M)	Strength and surface of RWY and SWY	THR co-ordinates	THR ELEV and highest ELEV of TDZ of precision APP RWY
				RWY END co- ordinates	
				THR Geoid Undulation	
1	2	3	4	5	6
05	054.53	2373 x 45	PCN 75 F/D/X/U Up to Code D ACFT	355050.97N 0142736.40E	THR 296 FT
				355135.64N 0142853.41E	
				121.683 FT	
23	234.54	2373 x 45	PCN 75 F/D/X/U Up to Code D ACFT	355135.64N 0142853.41E	THR 245 FT
				355050.97N 0142736.40E	
				121.890 FT	
13	134.74	3350 x 58	PCN 100 F/B/X/U	355123.07N 0142843.84E	THR 255 FT TDZ 258 FT
				355006.55N 0143018.66E	
				121.841 FT	
31	314.76	3350 x 58	PCN 100 F/B/X/U	355006.55N 0143018.66E	THR 231 FT TDZ 234 FT
				355123.07N 0142843.84E	
				123.432 FT	

Slope of RWY-SWY	Dimensions of SWY (M)	Dimensions of CWY (M)	Dimensions of Strip (M)	Dimensions of RESA (M)	Remarks
7	8	9	10	11	12
0% (548 M) -0.85% (1829 M)	-	90 x 150	2493 x 150	92 x 90	See Notes 1 and 3
0.85% (1829 M) 0% (548 M)	-	170 x 150	2493 x 150	91 x 90	See Notes 1 and 3
0.1% (650 M) -0.6% (1377 M) -0.1% (1328 M) 0% (189 M)	-	250 x 150	3470 x 300	192 x 120	See Note 2
0.1% (1328 M) 0.6% (1377 M) -0.1% (650 M) SWY -0.45%	102 x 58	235 x 300	3572 x 300	288 x 120	See Note 2
Notes:	<ol style="list-style-type: none"> <li>The last 600 M of RWY 23 / first 600 M of RWY 05 are not visible from the ATC tower.</li> <li>The overall slope of RWY 13/31 is 0.24%.</li> <li>The overall slope for RWY 23/05 is 0.64%.</li> <li>The paved width of RWY 13/31 is 60 M; however the runway edge markings are recessed by 1 M on each side to allow for pavement maintenance.</li> </ol>				

## LMML AD 2.13 DECLARED DISTANCES

Runway 23/05 Code C and D operations				
RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)
1	2	3	4	5
05	2373	2463	2373	2373
05P	1592	1682	1592	-
23	2373	2543	2373	2373
23Q	1646	1816	1646	-
23R	1702	1872	1702	-
23Z	1945	2115	1945	-
Note: Code D Operations up to 38 M Wing-Span on Runway 23/05 limited to departure from Runway 23.				

Runway 23/05 Code A and B operations				
RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)
1	2	3	4	5
05	2155	2155	2373	2155
05P	1374	1374	1592	-
23	2373	2543	2373	2373
23Q	1646	1816	1646	-
23R	1702	1872	1702	-
23Z	1945	2115	1945	-



Runway 13/31 Code A - Code F operations				
RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)
1	2	3	4	5
13	3350	3600	3350	3350
13E	2025	2275	2025	-
13F	2497	2747	2497	-
31	3350	3585	3452	3350
31B	2521	2756	2623	-
31C	2416	2651	2518	-
31D	1940	2175	2042	-
31G	1847	2082	1949	-

Note: The declared take off run available (TORA) for intersection take-offs initiates at the point where the referenced taxiway downwind edge meets the runway edge line and ends at the referenced runway end-bar. The distance shown on aerodrome intersection take-off signs (in metres) at the corresponding runway holding positions is based on this principle.

## LMML AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	PAPI (MEHT)	TDZ LGT LEN
1	2	3	4	5
05	Simple approach lighting system; 180 M High intensity barrette centreline; White; Variable	Green Nil	Left/Right 3.0° 20.5 M	Nil
23	Simple approach lighting system; 180 M High intensity barrette centreline; White; Variable	Green Nil	Left/Right 3.0° 20.5 M	Nil
13	Precision approach lighting system; 810 M High intensity barrette centreline and cross bar; White; Variable	Green Green	Left/Right 3.0° 17.6 M	Nil
31	Precision approach lighting system; 900 M High intensity centreline and five bars; White; Variable	Green Green	Left/Right 3.0° 17.6 M	Nil

RWY centre line LGT LEN, spacing, colour INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN colour	Remarks
6	7	8	9	10
Nil	60 M White; Yellow/White High intensity	Red Nil	Nil	Nil
Nil	60 M White; Yellow/White High intensity	Red Nil	Nil	Nil
30 M White; White/Red; Red High intensity; Variable	60 M White; Yellow/White High intensity	Red Nil	Nil	Nil
30 M White; White/Red; Red High intensity; Variable	60 M White; Yellow/White High intensity	Red Nil	100 M Red	Nil

Note: RWY 23/05 provided with Runway Threshold Identification Lights flashing white.

## LMML AD 2.15 AERODROME LIGHTING AND SECONDARY POWER SUPPLY

1	Aerodrome beacon	Location: Terminal building roof (Apron 9) Characteristics: Flashing white/green at a rate of 20 cycles per minute Hours of operation: Sunset to Sunrise
2	WDI location and LGT	WDI RWY 31: To the right of THR, lighted WDI RWY 05, RWY 13, RWY 23: To the left of THR, lighted
	Anemometer location and LGT	Anemometers: Co-located with each GP antenna
3	TWY edge, centreline and stop bar lighting	Edge: All TWY, blue, both sides <i>Note: Retro-reflective blue markers along the edges of TWY P.</i> Centreline: TWY A, C, D, E, F and H South; green <i>Note: TWY A, C, D, E, F and H South have centreline lights showing alternate green and yellow when exiting the runway and show green when approaching the runway.</i> Stop bar: TWY A, B, C, D, E, F, G and H; red <i>Note: The TWY A loop is intended for clockwise access only. Stop Bar A1 is intended to provide a RWY Holding Point in the event of exceptional use of TWY A in the reverse direction.</i>
4	Apron taxiway centreline and aircraft stand lead-in lighting	Centreline: Green on Apron 9 Lead-in: Amber on Stands 9 – 24 (except 18X and 21X) on Apron 9, individually switched on Edge Lights: Blue on Aprons 2, 8 and 9
5	Secondary power supply/Switch-over time	All aerodrome lighting and landing aids/15 SEC
6	Remarks	RWY 13/31 lighting complies with ICAO CAT 1 requirements. The lighting intensity of all lights is variable on request. SWY 31 is delineated in yellow markings and provided with perimeter red lights.

## LMML AD 2.16 HELICOPTER LANDING AREA

No area is designated as a helicopter landing area.

Helicopters operating at Luqa are required to make use of taxiways and runways, as directed by Malta ATC.

## LMML AD 2.17 ATS AIRSPACE

Name Lateral limits Vertical limits Class of airspace	Unit providing service	Call sign Languages Hours of service	Frequency (MHZ)
1	2	3	4
<b>LUQA CTR</b>  Luqa CTR radius 20 NM centred on Luqa ARP consisting of an INNER and OUTER zone separated by a circle 10 NM centred on Luqa ARP.  Vertical limits: SFC to 2000 FT AMSL  Class of airspace: D	Luqa TWR  (LMMLTWR)	Luqa Tower  ENG H24	135.100
<b>LUQA ATZ</b>  A circle, centre ARP, radius 4 NM.  Vertical limits: SFC to 2000 FT AMSL  Class of airspace: D			
<b>Notes:</b> 1. A graphical representation of the Malta CTR and Luqa ATZ is shown on page AD 2-LMML-MISC-CA - 1. 2. Luqa APP provides service to SVFR flights when Malta CTR is in IMC.			

**LMML AD 2.18 ATS COMMUNICATION FACILITIES**

Service designation	Call sign	Frequency (MHz)	Hours of operation	Remarks
1	2	3	4	5
TWR	Luqa Ground	121.600 121.825 (Backup)	H24	(1) UHF 284.500 MHz is available for military aircraft not equipped with VHF radios.  (2) Distress frequency 121.500 MHz is monitored (H24).
	Luqa Tower	135.100 133.900 (Backup)		
	Luqa Radar	128.150 118.350 (Backup)		
APP	Luqa Information	127.000		
DEP ATIS		127.400		
ARR ATIS				

**LMML AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

Type of aid, CAT of ILS (VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna co-ordinates	Elevation of DME transmitting antenna (M)	Remarks
1	2	3	4	5	6	7
GOZO VOR/DME (3° 02' E)	GZO	115.7 MHz CH104X	H24	360214.43N 0141218.95E	159	MRA limitations at 40 NM sectors: 020° - 050° MRA 7000 FT 050° - 150° MRA 3000 FT 150° - 020° MRA 2000 FT
LUQA DME (3° 02' E)	LQ	(CH 34X)	H24	355113.28N 0142849.28E	85	
MALTA DME (3° 02' E)	LM	(CH 42X)	H24	355009.73N 0143005.27E	76	
MALTA NDB (3° 02' E)	MLT	395 KHz	H24	354855.77N 0143144.94E	24	
LLZ 13 - ILS CAT I (3° 02' E)	LQ	109.7 MHz	H24	355000.59N 0143026.03E	69	See Note 1
GP 13	LQ	333.2 MHz	H24	355113.54N 0142848.86E	80	3.0°, RDH 50 FT
LLZ 31 - ILS CAT I (3° 02' E)	LM	110.5 MHz	H24	355133.79N 0142830.55E	76	See Note 1
GP31	LM	329.6 MHz	H24	355010.01N 0143005.86E	70	3.0°, RDH 50 FT

Note: (1) ILS 13 and ILS 31 are electronically interlocked and only one is available at any one time.

**LMML AD 2.20 LOCAL TRAFFIC REGULATIONS****1. Airport Regulations**

- 1.1 All flights require prior notification to MIA Airport Operations. Notifications of landing slots at LMML should also be submitted to the MATS Operations by email to ops.planning@maltats.com. The filing of a flight plan does not imply permission to operate to LMML. Non-planned technical or operational diversions will be coordinated directly by Malta ATC with the appropriate airport authorities.
- 1.2 Technical test flights necessary for the purpose of ascertaining the airworthiness of an aircraft must only be made after permission has been obtained in writing from the Airworthiness Inspectorate of the CAD-TM.
- 1.3 Runway and approach lighting will not normally be operated if the runway is not in use for landing, take-off or taxiing unless required for inspections or maintenance. Runway and approach lights, as well as obstacle lights, will remain switched on at night or when the visibility is less than 5000 M.

1.4 The responsibility for the removal of disabled aircraft shall be jointly and severally borne by the aircraft owner and operator. If such an aircraft is not removed as quickly as possible, the aircraft will be removed at the owner's or the operator's expense by the aerodrome operator. Any action leading to the aircraft's removal shall be subject to obtaining the permission of the Chief Inspector of Air Accidents or any other interested parties.

1.5 Wearing of high visibility clothing by all personnel on the apron areas and manoeuvring areas is mandatory.

1.6 The pilot of a VFR flight with departure and destination Luqa aerodrome shall fill in the required flight notification form that can be obtained from MIA.

## **2. Ground Movement**

2.1 All surface movement of aircraft, vehicles and personnel on the manoeuvring area are subject to ATC clearance. Vehicular traffic lights are operated by ATC on THR RWY 23 and constitute instructions to vehicles to cross or hold in the designated vehicular holding positions. Prior coordination and ATC clearance are required for works to be carried out on the movement area. All vehicles shall always give way to aircraft under own power or on tow. Walking is not permitted on all movement areas except in the vicinity of aircraft for the purpose of embarkation, disembarkation, servicing, handling or security.

2.2 All vehicles employed on the manoeuvring area shall be capable of maintaining two-way communications with ATC, except when the vehicle is only occasionally used on the manoeuvring area and is accompanied or escorted by a vehicle with the required communications capability.

2.3 Directions issued by ATC should be followed at all times. RTF transmissions must be brief, concise and kept to a minimum consistent with operational requirements.

2.4 On the movement area, aircraft will be cleared to proceed under direction from ATC and pilots are reminded of the importance of maintaining a careful lookout at all times especially on aprons. ATC instructions will specify the taxi route to be followed. Aircraft and vehicles must only proceed beyond the stop bar if ATC clearance is received and the stop bar lighting is switched off.

2.5 A FOLLOW-ME vehicle will be provided by MIA to aircraft taxiing to Stands 9X, 14X, 18X and 21X on Apron 9.

2.6 Pilots should not enter or depart from an aircraft stand unless a marshaller signalled clearance to proceed. Self-parking is only permitted on the general aviation Apron 5. Aircraft assigned to Apron 7 should follow marshalling instructions as provided by personnel of the AFM.

## **3. Departing aircraft**

### **3.1 Clearance Delivery**

3.1.1 Pilots of departing aircraft shall contact Luqa GND for ATC clearance not earlier than 15 minutes before planned start-up / push-back stating aircraft type, apron location, stand number and the code letter of the latest DEP ATIS information received. Pre-departure clearance will not be issued by Luqa GND for international flights unless a flight plan has been received. Pilots shall notify Luqa GND of any subsequent changes to SID / routing within the LMMM FIR following receipt of clearance.

3.1.2 IFR/GAT flight plans should be addressed to IFPS on EUCHZMFP/EUCBZMFP while VFR/OAT flight plans should be addressed to LMMM ZQZX.

3.1.3 When an aircraft is subject to ATFM regulations, the pilot will be advised of the Calculated Take-Off time (CTOT) as received from the NM. Luqa GND will provide ATFM assistance to aircraft as required.

3.1.4 International flights may also be subject to re-routings or restrictions due to unplanned military activity or contingency procedures in force. Flights affected will be informed on first contact with ATC when requesting clearance delivery.

**3.1.5 Start-up taxi clearance**

- 3.1.5.1 All aircraft should request start-up clearance from Luqa GND. Requests for start-up clearance shall not be made earlier than 5 minutes before planned start-up. Any delays in start-up should be communicated to ATC as early as possible.
- 3.1.5.2 Aircraft operated by the AFM are permitted to start-up at their own discretion without informing ATC. It is the responsibility of the pilots concerned to ensure that appropriate rescue and fire-fighting protection is available. Malta ATC provides limited alerting service on Apron 7 due to hangars that obstruct the view from ATC Tower. Before start-up on Apron 7, pilots should also ensure compliance with the applicable flight planning provisions as specified in ENR 1.10. Fixed-wing aircraft should then taxi out of Apron 7, stop at holding point Q2, and establish communication with Luqa GND for further clearance. AFM helicopters should establish control with Luqa TWR before requesting taxi to the TLOF point.

**3.2 Line-up clearance**

- 3.2.1 When ATC issues a line-up clearance to a departing aircraft, the pilot has to ensure that the aircraft will be ready for departure on line-up. If the aircraft is not ready for departure, the pilot shall notify ATC accordingly.

**3.2.2 Multiple line-ups on the same runway**

- 3.2.2.1 Multiple line-ups is a technique to expedite the departure of aircraft from the runway. It concerns departing aircraft being instructed to line-up on the same runway at different points using different access taxiways. The application of this procedure is at the discretion of Luqa TWR and subject to the procedures indicated below.
- 3.2.2.2 The use of multiple line-ups from the same runway access point is not considered as an application of multiple line-ups on the same runway but an application of a conditional ATC clearance for sequencing of departing traffic.
- 3.2.2.3 Multiple line-up instructions on the same runway from different runway intersections may be issued by Luqa TWR subject to the following provisions:
- i. Multiple line-up instructions shall only be issued by Luqa TWR;
  - ii. Not more than two aircraft may be lined-up at different points on the same runway as indicated below:
    - THR RWY 13 and RWY 13 intersection F or intersection E;
    - THR RWY 31 and RWY 31 intersection B or intersection C or intersection D or intersection G;
    - THR RWY 23 and RWY 23 intersection Q or intersection R or intersection Z;
    - THR RWY 05 and RWY 05 intersection P.
  - iii. Multiple line-up instructions shall not be issued when the visibility is less than 5 KM;
  - iv. Multiple line-ups may only be authorised when both aircraft are continuously visible to Luqa TWR on the manoeuvring area either by visual observation or by the use of video cameras.

**3.3 Intersecting Runway Operations**

- 3.3.1 Unrestricted operations on RWY 13/31 are allowed when aircraft have been cleared for take-off from RWY 23 intersection R.

**4. Engine ground runs**

- 4.1 An engine ground run is defined as any engine start-up not associated with the planned aircraft departure.
- 4.2 Requests for engine ground runs at idle power settings are permitted on all aprons at all times subject to ATC clearance. Engine ground runs at higher power settings must be authorised by MIA and are not permitted between 2300 - 0600 LT unless required due to exceptional operational reasons.
- 4.3 All engine ground runs shall be supervised under the responsibility of an officer designated by the operator requesting the run-up. The officer in charge of the ground run must ensure that the aircraft is positioned in a way which does not harm persons or cause damage to aircraft, vehicles or equipment especially in the area

behind the aircraft which is subjected to blast and immediately in front of the engine intakes. Care must also be taken to minimise the potential scattering of material from adjacent grass areas.

4.4 Engine ground runs on Apron 7 will be conducted at the discretion of the AFM.

## 5. Airfield Warnings

5.1 Intense activity of flocks of starlings may be expected throughout the year especially during October and November. As far as practicable, Aerodrome Control will inform pilots of this bird activity. Dispersal activities normally include the playing back of distress calls from tape together with the firing of shell crackers.

5.2 Fireworks associated with both national and local events may be let off at various localities. Pilots of VFR flights are therefore advised to exercise caution while flying over areas where such activities are taking place. NOTAM will be published only in the event of fireworks taking place in the Luqa ATZ.

## 6. Use of Runways

### 6.1 RWY 13/31 IFR Preferential Runway Scheme (IFR PRS)

6.1.1 The RIU selected in LMML shall be RWY 31 from 0600 LT to 1800 LT and RWY 13 from 1800 LT to 0600 LT.

6.1.2 Requests by pilots for departure and landing on the runway reciprocal to the declared RIU will not be allowed except in cases of emergency, urgency or priority landing.

6.1.3 The IFR PRS on RWY 13/31 is not applicable when:

- a. the tailwind component for the selected RIU exceeds 8 KT in dry conditions;
- b. the tailwind component for the selected RIU exceeds 5 KT in wet conditions;
- c. The crosswind component exceeds 25 KT in dry or wet conditions. In these conditions RWY 23 or RWY 05 shall be declared as the RIU, with RWY 31 or RWY 13 available for Code E/F operations only;
- d. Wind shear has been reported or forecast or when thunderstorms are expected to affect the approach;
- e. The runway is closed due to pre-notified events.

### 6.1.4 The following exceptions to the application of the PRS apply:

#### 6.1.4.1 Configuration 1: RIU 23 for VFRs and RIU 13/31 for IFRs

In this configuration, IFR flights requesting to depart or land on RWY 23, may be allowed in so far as operationally practical, IFR (civil + military) flights will have priority over VFR flights operating on RWY 23. Departures or landings on RWY 05 are not allowed when this configuration is in force.

#### 6.1.4.2 Configuration 2: RIU 05 for VFRs and RIU 13/31 for IFRs

In this configuration, IFR flights requesting to depart or land on RWY 05, may be allowed in so far as operationally practical. IFR (civil + military) flights will have priority over VFR flights operating on RWY 05. Departures or landings on RWY 23 are not allowed when this configuration is in force.

### 6.2 RWY 23/05 VFR Preferential Runway Scheme (VFR PRS) applicable to LIGHT aircraft

6.2.1 The VFR PRS for domestic and international VFR flights shall be RWY 23 or RWY 05. This is applicable to all VFR departures and arrivals. Tailwind components exceeding 5 KT will determine whether RWY 23 or RWY 05 is selected as the preferred VFR runway.

6.2.2 The VFR PRS is not applicable when the crosswind component on RWY 23/05 exceeds 15 KT, in which case RWY 13/31 is declared as the RIU, as applicable for IFR flights. In this configuration departures, circuits and arrivals on RWY 23/05 are allowed at the discretion of ATC.

6.2.3 The VFR RIU is promulgated on ATIS for all domestic and international VFR flights. VFR pilots should monitor DEP ATIS broadcasts before requesting start-up clearance with Luqa GND.

**6.3 Runway vacating procedures**

- 6.3.1 Unless otherwise instructed by ATC, MEDIUM and HEAVY aircraft should plan to vacate the runway after landing as follows:
- RWY 05: for MEDIUM aircraft via TWY J
  - RWY 23: for MEDIUM aircraft via TWY L
  - RWY 13: for MEDIUM aircraft via TWY C or TWY D
  - RWY 13: for HEAVY aircraft via TWY C or TWY D or via TWY A in case of long landing roll
  - RWY 31: for MEDIUM aircraft via TWY E or TWY F
  - RWY 31: for HEAVY aircraft via TWY E or TWY F or via the loop TWY H/H South to backtrack the runway in case of long landing roll.

**7. Test & Training Flights**

- 7.1 Except for locally based LIGHT aircraft planning to conduct visual circuits, aircraft intending to conduct test (air work, maintenance checks, etc.) or training flights require an ATC slot which should be approved by the MATS Airspace Cell (email: [airspace.cell@maltats.com](mailto:airspace.cell@maltats.com)). For the purpose of pre-notification and approval a MATS User Request Form is available from the Airspace Cell on request. The Airspace Cell should be notified with any requested changes or cancellations to slots which have already been approved.
- 7.2 Test and Training flights will normally be approved by the Airspace Cell between 0600 - 2300 LT. Training flights are not permitted between 2300 - 0600 LT. There are no time restrictions for flights requesting to operate within the designated Test & Training Areas (refer to ENR 6-LMMM-TTA1 - 1, ENR 6-LMMM-TTA2 - 1 and ENR 6-LMMM-TTA3 - 1).
- 7.3 Test and Training flights will not normally be given priority over other flights and may therefore be subject to delays depending on the traffic situation. When required by ATC for arrival sequencing or delay purposes, aircraft should expect holding in one of the Circuit Holding Patterns (refer to AD 2-LMML-MISC-VC4 - 1/2 and AD 2-LMML-MISC-VC8 - 1/2) or Circuit Holding Areas (refer to AD 2-LMML-MISC-CHA2 - 1 and AD 2-LMML-MISC-CHA3 - 1). Alternatively, radar vectoring may be given by Luqa APP for re-integration in the circuit. The number of simultaneous training flights in the circuit may be temporarily restricted or suspended by ATC.
- 7.4 Microlight / ultralight aircraft may perform circuits on RWY 23/05 at the discretion of ATC depending on the traffic situation.
- 7.5 The deliberate simulation of engine failure, asymmetric flight or practice rejected take-offs are not permitted without prior permission from the Airspace Cell.

**LMML AD 2.21 NOISE ABATEMENT PROCEDURES****1. Use of runways**

- 1.1 Due to noise abatement and noise distribution, Malta ATC will select RWY 13 as the main runway for landings and departures between 1800 LT and 0600 LT and RWY 31 between 0600 LT and 1800 LT.
- 1.2 SIDs are an integral part of Noise Abatement Procedures and should be strictly adhered to within the limits of aircraft performance.
- 1.3 Aircraft which are unable to conform to the published altitude restrictions shall inform ATC prior to departure.

**LMML AD 2.22 FLIGHT PROCEDURES****1. General Procedures**

- 1.1 The Luqa CTR is a circle of 20 NM centred on the Luqa ARP. The Luqa CTR includes the Luqa ATZ which is as a circle of 4 NM centred on the Luqa ARP, an INNER zone (INNER CTR) and an OUTER zone (OUTER CTR). The INNER zone is a circle of 10NM centred on the Luqa ARP.

- 1.2 The Luqa CTR is further sub-divided into four sectors: NORTH, SOUTH, WEST AND EAST. ATC clearance is required for VFR flights operating in the INNER zone to transit from one sector to another unless otherwise instructed by ATC or if cleared on a standard VFR arrival/departure route. Unless otherwise instructed by ATC, clearance for VFR flights to transit from one sector to another is not required when operating in the OUTER zone.
- 1.3 Within the Luqa CTR standard VFR arrival and departure routes are published based on Visual Reporting Points. It is mandatory for all international VFR arrivals and departures to flight plan the appropriate route as indicated in AD 2-LMML-MISC-SVA and AD 2-LMML-MISC-SVD.
- 1.4 Deemed separations from STARs and SIDs are based on VFR flights operating in the Luqa CTR at 2000 FT or below within the INNER zone. If ATC is in positive visual contact with an aircraft, 'reduced separation in the vicinity of the aerodrome' can be applied by ATC in the Luqa ATZ.
- 1.5 VFR flights requesting to cross from one sector to the other when the visual patterns are active will be instructed by ATC to keep clear of the Luqa ATZ and traffic information given on the status of the circuit or specific position of the aircraft in the circuit. If required due to traffic in the circuit, aircraft requesting to transit the sectors may be instructed by ATC to proceed via alternative routes not to infringe the circuit pattern.
- 1.6 Aircraft operating in Class G airspace below the Malta TMA should monitor the Luqa APP control frequency.
- 1.7 A flight plan is not required for domestic VFR flights intending to operate within the Luqa CTR. In order to facilitate the assignment of SSR codes a dedicated code is allocated to LMML-based VFR aircraft. On start-up with ATC the pilot will confirm the assigned code.
- 1.8 The pilot of an aircraft is responsible for determining whether or not the meteorological conditions permit flight in accordance with Visual Flight Rules.
- 1.9 Except when a clearance is obtained from ATC, VFR flights shall not take-off or land at LMML or enter the Luqa ATZ or traffic pattern:
- a. when the ceiling is less than 1500 FT; or
  - b. when the ground visibility is less than 5 KM.

## **2. Special VFR flights**

- 2.1 When traffic conditions permit VFR operations in meteorological conditions below those prescribed in paragraph 1.9 above, VFR flights may be permitted at the discretion of ATC as Special VFR flights.
- 2.2 ATC will not issue a Special VFR clearance when the ground visibility is less than 1500 M or for helicopters less than 800 M, or when the ceiling is less than 600 FT.

## **3. Night VFR flights**

- 3.1 Night VFR flights may be allowed to operate between sunset and sunrise within the Luqa CTR subject to the following conditions:
- a. the flight must be conducted not later than 2300 LT and not earlier than 0600 LT;
  - b. the ground visibility must not be less than 5 KM and the ceiling must not be less than 1500 FT; and
  - c. the VMC visibility and distance from cloud minima in the table shown in ENR 1.2 shall apply provided that the pilot maintains continuous sight of the surface;
  - d. the flight must be operated as a local flight with LMML as departure and arrival aerodrome.
  - e. microlights and ultralights are not allowed to conduct VFR flights all night

*Note: Clearance to these flights does not constitute a Special VFR Clearance.*



**4. Procedures for international VFR arrivals**

- 4.1 International VFR arrivals should flight plan the published VFR standard arrival routes into LMML as indicated in AD 2-LMML-MISC-SVA - 1 chart. The Luqa CTR has five arrival gates via GOZO, NORTH, EAST, SOUTH WEST and WEST gates. The standard VFR arrival shall be indicated in Field 15 of the FPL as follows:

Entry from GOZO (VRP):	GOZO VFR ARR
Entry from NORTH GATE:	NG DCT MF
Entry from EAST GATE:	EG DCT MB
Entry from SOUTH WEST:	SW DCT SW1 DCT TP
Entry from WEST GATE:	WG DCT DR

- 4.2 Pilots should plan to enter via one of the arrival routes at an altitude of 2000 FT. International VFR arrivals will be cleared by ATC to enter the Luqa CTR via the standard VFR arrival routes as flight planned by the pilot. If no arrival route is specified in the FPL, the GOZO VFR ARR route will be the standard VFR arrival route assigned by the ATC.
- 4.3 When LM-D1 is active the NORTH GATE VFR ARR route is not available and ATC will instruct the pilot to proceed via the GOZO VFR ARR route.
- 4.4 When LM-D6 is active VFR arrivals planning the NORTH GATE VFR ARR route will be re-routed by ATC to CT-SP-MF.
- 4.5 Aircraft entering the Luqa CTR from Class G airspace should contact Luqa APP for entry clearance.
- 4.6 Pilots should be well briefed before entering the Luqa CTR as the standard arrival route to be followed may vary according to runway in use for VFR flights.
- 4.7 The GOZO VRP defining the VFR arrival route on RWY 05/13/31 is the GZO VOR/DME. If aircraft are not equipped with a VOR receiver or the navigational aid is not serviceable the VRP SAN LAWRENZ church should be used instead.
- 4.8 If entry in the Luqa CTR is planned via the SOUTH sector, plan to enter Luqa CTR via SOUTH at 2000 FT and expect further clearance by ATC.
- 4.9 The end of the standard VFR arrival route is the last VRP on the published route. Unless ATC instructions to join the applicable visual pattern have been given, pilots should orbit over the last VRP (or the immediate VRP if applicable) in the direction of the sea. Caution should be exercised during holding due to the possibility of other aircraft orbiting over the same location, aircraft established in the visual patterns and aircraft landing/take-off.

**5. Domestic VFR arrivals**

- 5.1 Domestic VFR flights operating in the VFR sectors and requesting to recover to LMML should advise ATC with their intentions in sufficient time. ATC will clear the aircraft via the published VFR arrival routes or direct to one of the published VRPs.
- 5.2 Aircraft planning to enter the Luqa CTR from uncontrolled airspace (Class G below 2000 FT outside the Luqa CTR) should request prior clearance for entry from Luqa APP.
- 5.3 Domestic VFR flights planning to enter the Luqa CTR via controlled airspace (Class C from 2000 FT outside the CTR) and requesting to recover to LMML should normally expect to follow the same procedures as specified for international VFR arrivals in paragraph 4 above or expect clearance by ATC to proceed direct to specific VRPs.
- 5.4 Clearance to operate via the published VFR arrival routes denotes that the clearance limit is the end of the VFR arrival route unless instructed to hold in the intermediate VRPs.
- 5.5 ATC clearance is required for VFR flights operating in the INNER zone to transmit from one VFR sector to another unless otherwise advised by ATC or if cleared on a standard VFR arrival/departure route. Unless otherwise advised by ATC, clearance for VFR flights to transit from one VFR sector to another is not required when operating in the OUTER zone.

- 5.6 To minimize taxiing time and reduce runway occupancy, VFR traffic landing on RWY 31 may request, or be asked to perform, a midfield landing. When midfield landing is approved, aircraft are expected to touch down at a point on the runway between (abeam) Taxiway C and Taxiway F. Due to unavailability of standard markings and other visual aids, aircrew must ensure that they can perform such a maneuver and in case of doubt shall request to conduct a standard full-length approach and landing.

## **6. International VFR departures**

- 6.1 International VFR departures should flight plan the published VFR standard departure routes from LMML as indicated in AD 2-LMML-MISC-SVD - 1 chart. The Luqa CTR has five exit gates via GOZO, NORTH, SOUTH, WEST and EAST points. The GOZO VFR DEP route will be the standard VFR departure route assigned by ATC for all international VFR departures.
- 6.2 DEP ATIS broadcasts should be monitored in advance in order to pre-plan the route which ATC will assign depending on the VFR runway in use. Pilots should be well briefed before departure as the standard departure route to be followed will vary according to runway in use for VFR departures.
- 6.3 International VFR flights intending to exit the Luqa CTR from the NORTH/SOUTH/WEST/EAST gates should insert the requested exit gate in the flight plan and advise ATC accordingly. Depending on the traffic situation ATC will amend the standard GOZO VFR DEP clearance to enable the pilot to proceed to the requested exit gate in the most direct way.
- 6.4 Luqa GND will clear departures to an altitude of 2000 FT or below on the assigned VFR departure route. Departing VFR flights should expect to be transferred to APP after exit from the INNER zone and ATC will subsequently clear the VFR departures to their Requested Flight Level depending on the traffic situation. For planning purposes pilots should expect to remain at an altitude of 2000 FT until exiting the Luqa CTR if the traffic situation does not permit clearance to higher levels after exit from the INNER zone.

## **7. Domestic VFR departures**

- 7.1 Pilots of VFR domestic departures should advise their intentions on initial contact with Luqa GND order to operate in a VFR sector or within the visual pattern.
- 7.2 If circuit training is planned and approved by ATC, pilots will be advised to expect VFR patterns at the applicable circuit altitude.
- 7.3 Standard VFR clearances for circuit training will be assigned by ATC as follows:
- EXPECT VFR CIRCUITS RWY [05]
- 7.4 If planned to operate within the VFR sectors or to exit the Luqa CTR pilots should expect the following standard ATC clearances:
- 7.4.1 **RIU 23 for VFR flights and RIU 31 for IFR flights**
- If planning to operate in the WEST / NORTH sectors aircraft will be cleared VFR to DINGLI RADAR NOT ABOVE 1500 FT.
- If planning to operate in the SOUTH / EAST sectors aircraft will be cleared VFR to BLUE GROTTA NOT ABOVE 1500 FT.
- 7.4.2 **RIU 23 for VFR flights and RIU 13 for IFR flights**
- If planning to operate in the WEST / NORTH sectors aircraft will be cleared VFR to DINGLI RADAR NOT ABOVE 1500 FT.
- 7.4.3 **RIU 05 for VFR flights and RIU 31 for IFR flights**
- If planning to operate in the WEST / NORTH sectors aircraft will be cleared VFR to MADLIENA FORT VIA GRAND HARBOUR NOT ABOVE 1500 FT.
- If planning to operate in the SOUTH / EAST sectors aircraft will be cleared VFR to MARSASCALA BAY NOT ABOVE 1500 FT.

**7.4.4 RIU 31 for both IFR and VFR flights**

If planning to operate in the NORTH sector aircraft will be cleared VFR to MADLIENA FORT NOT ABOVE 1500 FT.

If planning to operate in the EAST sector aircraft will be cleared VFR to MARSASCALA BAY NOT ABOVE 1500 FT.

If planning to operate in the WEST sector aircraft will be cleared VFR to DINGLI RADAR NOT ABOVE 1500 FT.

If planning to operate in the SOUTH sector aircraft will be cleared VFR to BLUE GROTTTO NOT ABOVE 1500 FT.

**7.4.5 RIU 05 for VFR flights and RIU 13 for IFR flights**

If planning to operate in the WEST / NORTH sectors aircraft will be cleared VFR to MADLIENA BAY FORT VIA GRAND HARBOUR NOT ABOVE 1500 FT.

If planning to operate in the EAST sectors aircraft will be cleared VFR to MARSASCALA BAY NOT ABOVE 1500 FT.

**7.4.6 RIU 13 for both IFR and VFR flights**

If planning to operate in the NORTH sector aircraft will be cleared VFR to MADLIENA FORT VIA GRAND HARBOUR NOT ABOVE 1500 FT.

If planning to operate in the EAST sector aircraft will be cleared VFR to MARSASCALA BAY NOT ABOVE 1500 FT.

If planning to operate in the WEST sector aircraft will be cleared VFR to DINGLI RADAR NOT ABOVE 1500 FT.

Note 1: If traffic permits no delays are expected for IFR departures, ATC may modify the standard clearance before departure.

Note 2: VFR departures cleared to MADLIENA FORT will be notified by ATC when LMD-01 or LMD-06 are active.

Note 3: Requests by VFR to operate in the SOUTH sector with RIU 13 will only be approved by ATC when there are no planned IFR departures.

Note 4: During periods of intensive traffic in the Luqa ATZ, VFR pilots should exercise caution to avoid conflicting with other traffic operating in the visual patterns. Transmissions should be kept to a minimum at all times.

**8. RCF procedures for VFR flights operating in the Luqa CTR**

8.1 In the event of RCF VFR flights operating in the Luqa CTR are expected to squawk A7600 and to operate as follows:

- If operating in the NORTH sector proceed to orbit over MADLIENA FORT (MF) and await visual signals from the aerodrome control tower.
- If operating in the EAST sector proceed to orbit east of LUQA and await visual signals from the aerodrome control tower.
- If operating in the WEST sector proceed to orbit over DINGLI RADAR (DR) and await visual signals from the aerodrome control tower.
- If operating in the SOUTH sector proceed to orbit over BLUE GROTTTO (BG) and await visual signals from the aerodrome control tower.

8.2 If operating as aerodrome traffic pilots should squawk A7600 and await visual signals from the aerodrome control tower.

8.3 If able pilots should also attempt to contact the aerodrome control tower by cell phone on +356 22 35 53 33.

## **9. Control of circuit traffic**

### **9.1 *Standard circuit patterns are as follows:***

RWY 31 - LEFT HAND circuit  
RWY 13 - RIGHT-HAND circuit  
RWY 23 - LEFT-HAND circuit  
RWY 05 - RIGHT-HAND circuit

Note 1: Variable direction circuit patterns are applicable for LIGHT aircraft as required by ATC. All the circuit patterns for LIGHT aircraft are considered to be usable when LMD-1/6 is active.

9.2 Due to heavily built-up areas and critical infrastructure to the east of the island non-standard circuit patterns for MEDIUM/HEAVY aircraft are only authorized by ATC when required due to operational reasons.

9.3 Visual circuits for LIGHT aircraft shall be conducted not above 1500 FT. Unless otherwise advised by ATC all circuits for MEDIUM/HEAVY aircraft shall be conducted not above 2000 FT. Visual circuits shall be carried out as indicated in the charts AD 2-LMML-MISC-VC1 - 1 to AD 2-LMML-MISC-VC8 - 1 in order to reduce noise levels over built-up areas unless otherwise instructed by ATC.

9.4 When aircraft operating in the visual circuit are required by ATC to operate outside the Luqa ATZ (e.g. due to an ATC instruction to extend the circuit pattern), traffic information will be provided by ATC on other VFR flights operating in the vicinity, in so far as operationally practical. This includes traffic holding over the end of the VFR arrival routes or on the extended approach of the runway.

9.5 Designated circuit holding areas have been established for holding LIGHT aircraft operating in the Luqa ATZ as indicated in AD 2-LMML-MISC-CHA1 - 1. Aircraft instructed by ATC to hold over these areas shall be considered as forming part of the aerodrome traffic circuit. The location and direction of the holding points are prescribed in a way to enable aircraft to join the circuit without delay when ATC clearance is given.

9.6 Due to international arrivals and departures and when required by ATC, circuit flights may expect to be transferred to Luqa APP for vectoring into a sequence of arrivals.

9.7 VFR circuits on RWY 23/05 may also be allowed subject to the restrictions applicable to crossing circuits.

9.8 In order to maintain circuit efficiency and reduce delays to non-circuit traffic a maximum number of three aircraft will normally be allowed by ATC to conduct circuits simultaneously and subject to the restrictions below:

- a. The maximum number of aircraft conducting VFR circuits on crossing runways is restricted to one per runway irrespective of aircraft category;
- b. When the VFR circuits on the crossing runways are active by LIGHT aircraft and a third aircraft requests VFR circuits, all circuit flying will be restricted to the VFR RIU;
- c. When two MEDIUM or HEAVY aircraft are conducting VFR circuits, LIGHT aircraft will not be allowed to conduct circuit flights.

## **10. IFR flights**

### **10.1 *Arrival procedures***

10.1.1 On establishing contact with Luqa APP arriving flights should state their cleared level, type of aircraft and receipt of ARR ATIS information.

10.1.2 Aircraft should expect to be radar vectored to an ILS approach procedure for RWY 13/31 or an RNAV approach procedure for RWY 13/31/23/05 subject to RIU. ATC may clear aircraft to an appropriate waypoint associated with the ILS /RNAV procedure from which the aircraft can transition to the ILS / RNAV approach.

10.1.3 Requests for visual approach on RWY 13/23/05 will not be accepted by ATC unless aircraft report unable ILS/RNAV approach due to lack of equipage.

10.1.4 Requests for a visual approach on RWY 31 are allowed subject to traffic operating in the circuit and the landing sequence. When a visual approach is approved by ATC the pilot should expect an initial clearance to descend not below an altitude of 3000 FT. A follow on instructions to continue the approach below 3000 FT should normally be expected after the aircraft crosses the RWY 23/05 axis.

**10.2 Holding**

10.2.1 When holding is anticipated ATC will clear IFR arrivals to the appropriate published holding fix as follows:

Landing RWY	Holding Fix	Description of Holding Pattern	MNM ALT (FT)
13	OMBER	Inbound track 042 left-hand turns	3000
	NOLER	Inbound track 132 right-hand turns	
	GUDER	Inbound track 222 right-hand turns	
31	TIVOR	Inbound track 042 right-hand turns	3000
	SOFOR	Inbound track 312 right-hand turns	
	KEKOR	Inbound track 222 left-hand turns	
23	MONAM	Inbound track 142 left-hand turns	3000
	EVLAM	Inbound track 232 right-hand turns	
	INTAM	Inbound track 322 right-hand turns	
05	METIM	Inbound track 141 right-hand turns	3000
	VEKIM	Inbound track 051 right-hand turns	
	BEVIM	Inbound track 321 left-hand turns	
Note: Holding may be given by ATC for tactical sequencing.			

10.2.2 An Expected Approach Time will be issued by Luqa APP when aircraft are expected to hold for 10 MIN or more. The EAT will be based on a minimum landing interval of 3 MIN.

10.2.3 Arrival flights are given 'Delay not determined' when the landing runway cannot be used for landing and it is not possible to predict when the runway will become available.

**10.3 Departure procedures**

10.3.1 The departure clearance will be provided by Luqa GND following a clearance delivery request by the pilot. The clearance will contain the Standard Instrument Departure (SID) to be followed based on the departure runway in use, the initial standard cleared level, a discrete SSR code and CTOT if applicable. Whenever a SID cannot be issued, aircraft will be given a radar departure consisting of the initial track or heading to be followed after take-off and the cleared level.

10.3.2 Strict compliance with the issued ATC clearance is necessary at all times. Non-compliance may result in less than standard separation between aircraft. If a flight is unable to comply with issued clearances, the ATC unit concerned should be informed before take-off and an alternative clearance requested.

10.3.3 When the pilot intends to take-off from an intersection, the pilot shall notify ATC on requesting start-up clearance. The requirements of the assigned standard instrument departure procedure to be followed must be met at all times.

**10.3.4 Standard Instrument Departure procedures**

10.3.4.1 The Standard Instrument Departure procedures applicable to aircraft departing from Luqa aerodrome reflect Noise Preferential Routings. Pilots should not deviate from these procedures and should not request alternative departure routings unless required to do so due to adverse weather.

10.3.4.2 Pilots of departing aircraft should climb to the initial cleared level specified in the clearance delivery unless otherwise instructed by ATC.

10.3.4.3 On first contact with Luqa APP, pilots of departing aircraft should report:

- a. call sign,
- b. SID designator,
- c. current altitude and
- d. cleared altitude.

10.3.4.4 En-route cruising level will be issued after departure by Malta ATC.

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## LMML AD 2.23 ADDITIONAL INFORMATION

### 1. Low visibility procedures

1.1 The low visibility procedures detailed below will come into effect at Luqa when the Runway Visual Range (RVR) is observed to be less than 1500 M.

#### 1.1.1 Procedures to be followed when the RVR is less than 1500 M

1.1.1.1 When the RVR is reported to be less than 1500 M:

- a. runway 13/31 will be the preferential runway;
- b. only one aircraft will be given taxi instructions at any one time and no taxi instructions will be issued if another aircraft is shortly expected on the runway; and
- c. vehicular traffic will be restricted to a minimum and will be required to have the beacon switched on.

#### 1.1.2 Additional procedures to be followed when the RVR is less than 800 M

1.1.2.1 When the RVR is reported to be less than 800 M, in addition to the procedures set out in 1.1.1.1, above:

- a. all runways lights will be on maximum power setting and no adjustments to the lighting controls will be made unless requested by the aircraft commander;
- b. failure of any visual aids will be immediately reported to the pilot; and
- c. maintenance and works personnel will be removed from the runways and taxiways.
- d. a follow-me vehicle will be provided to taxiing aircraft in order to provide guidance in/out of their allocated stand.

### 2. Minimum level of insurance cover for passenger, baggage, cargo and for third party liability

#### 2.1 General

2.1.1 The minimum level of insurance for aircraft flying within, into, out of, or over the territory of Malta is that established by Regulation (EC) No 785/2004 of the European Parliament and of the Council of 21 April 2004 on insurance requirements for air carriers and aircraft operators. Air carriers and aircraft operators are to be insured in accordance with this Regulation in respect of passengers, baggage, cargo and third parties. The insured risks shall include acts of war, terrorism, hijacking, acts of sabotage, unlawful seizure of aircraft and civil commotion.

#### 2.2 Insurance in respect of liability for passengers, baggage and cargo

2.2.1 For liability in respect of passengers, the minimum insurance cover shall be 250,000 Special Drawing Rights (SDR) per passenger.

2.2.2 For liability in respect of baggage, the minimum insurance cover shall be 1000 SDRs per passenger in commercial operations.

2.2.3 For liability in respect of cargo, the minimum insurance cover shall be 17 SDRs per kilogram in commercial operations.

2.2.4 These liability measures do not apply with respect to flights overflying Malta carried out by non-Community air carriers and by aircraft operators using aircraft registered outside the Community and which do not land or take-off for Malta.

**2.3 Insurance in respect of liability for third parties**

- 2.3.1 In respect of liability for third parties, the minimum insurance cover per accident, for each and every aircraft, shall be:

Category	Maximum Take Off Mass (KG)	Minimum Insurance (Million SDRs)
1	<500	0.75
2	<1000	1.5
3	<2700	3
4	<6000	7
5	<12,000	18
6	<25,000	80
7	<50,000	150
8	<200,000	300
9	<500,000	500
10	>500,000	700

**2.4 Production of documentary evidence**

- 2.4.1 Non-Community air carriers and, when so required, aircraft operators, shall demonstrate compliance with the above-mentioned insurance requirements by providing to the CAD-TM (attention of the Duty Management Officer) with a copy of the insurance certificate or other evidence of valid insurance.
- 2.4.2 Community air carriers may also, at the discretion of the CAD-TM, be required to submit evidence of valid insurance.

**3. Aircraft involved in fishing operations**

- 3.1 Operators and owners of aircraft in support of fishing operations in the Mediterranean Sea shall not take-off from, or land at, Luqa aerodrome throughout the month of June.
- 3.2 Further details may be found in LN122/2002, the Civil Aviation (Restriction of Flying) Regulations, 2002.

**4. Seaplane operations**

- 4.1 Sea plane operations may not be conducted unless prior approval has been obtained from the CAD-TM.

## LMML AD 2.24 CHARTS RELATED TO AN AERODROME

Chart name	Page
Aerodrome Chart — ICAO	AD 2-LMML-ADC - 1
Aircraft Parking Chart — ICAO (Apron 2)	AD 2-LMML-APDC-APN2 - 1
Aircraft Parking Chart — ICAO (Apron 3)	AD 2-LMML-APDC-APN3 - 1
Aircraft Parking Chart — ICAO (LTM Apron)	AD 2-LMML-APDC-APNLTM - 1
Aircraft Parking Chart — ICAO (Apron 5)	AD 2-LMML-APDC-APN5 - 1
Aircraft Parking Chart — ICAO (Apron 7)	AD 2-LMML-APDC-APN7 - 1
Aircraft Parking Chart — ICAO (Apron 8)	AD 2-LMML-APDC-APN8 - 1
Aircraft Parking Chart — ICAO (Apron 9)	AD 2-LMML-APDC-APN9 - 1
Aircraft Parking Chart — ICAO SAP (LSP / USP APRONS)	AD 2-LMML-APDC-APNSAF - 1
Aerodrome Ground Movement Chart — ICAO	AD 2-LMML-AGMC - 1
Aerodrome Obstacle Chart — ICAO Type A (Operating Limitations) RWY 23/05	AD 2-LMML-AOC-A-RWY23-05 - 1
Aerodrome Obstacle Chart — ICAO Type A (Operating Limitations) RWY 13/31	AD 2-LMML-AOC-A-RWY13-31 - 1
Aerodrome Obstacle Chart — ICAO Type B	AD 2-LMML-AOC-B - 1
Precision Approach Terrain Chart — ICAO (RWY 13)	AD 2-LMML-PATC13 - 1
Precision Approach Terrain Chart — ICAO (RWY 31)	AD 2-LMML-PATC31 - 1
ATC Surveillance Minimum Altitude Chart — ICAO	AD 2-LMML-SMAC - 1
Standard Departure Chart — Instrument — ICAO (RWY 05)	AD 2-LMML-SID05 - 1
Standard Departure Chart — Instrument — ICAO (RWY 13)	AD 2-LMML-SID13 - 1
Standard Departure Chart — Instrument — ICAO (RWY 23)	AD 2-LMML-SID23 - 1
Standard Departure Chart — Instrument — ICAO (RWY 31)	AD 2-LMML-SID31 - 1
Instrument Approach Chart — ICAO (ILS OR LOC RWY 13)	AD 2-LMML-IAC ILS13 - 1
Instrument Approach Chart — ICAO (ILS OR LOC RWY 31)	AD 2-LMML-IAC-ILS31 - 1
Instrument Approach Chart — ICAO (RNP RWY 05)	AD 2-LMML-IAC-RNP05 - 1
Instrument Approach Chart — ICAO (RNP RWY 13)	AD 2-LMML-IAC-RNP13 - 1
Instrument Approach Chart — ICAO (RNP RWY 23)	AD 2-LMML-IAC-RNP23 - 1
Instrument Approach Chart — ICAO (RNP RWY 31)	AD 2-LMML-IAC-RNP31 - 1
Visual Approach Chart — ICAO (RWY 31)	AD 2-LMML-VAC31 - 1
Areas Requiring Special Attention (ARSA) Chart	AD 2-LMML-MISC-ARSA - 1
Control Areas	AD 2-LMML-MISC-CA - 1
Local VFR Areas	AD 2-LMML-MISC-LVA - 1
Visual Reporting Points (VRP)	AD 2-LMML-MISC-VRP - 1
Standard VFR Arrival Routes	AD 2-LMML-MISC-SVA - 1
Standard VFR Departure Routes	AD 2-LMML-MISC-SVD - 1
Circuit Holding Areas in the Luqa ATZ for LIGHT aircraft	AD 2-LMML-MISC-CHA1 - 1
Grand harbour (GH) Circuit Holding Area	AD 2-LMML-MISC-CHA2 - 1
Temples (TP) Circuit Holding Area	AD 2-LMML-MISC-CHA3 - 1
Visual Circuit RWY 05 for LIGHT aircraft	AD 2-LMML-MISC-VC1 - 1
Visual Circuit RWY 13 for LIGHT aircraft	AD 2-LMML-MISC-VC2 - 1
Visual Circuit RWY 13 for LIGHT aircraft - low-level circuit	AD 2-LMML-MISC-VC3 - 1
Standard Right-Hand Visual Circuit RWY 13 for MEDIUM/HEAVY aircraft	AD 2-LMML-MISC-VC4 - 1
Visual Circuit RWY 23 for LIGHT aircraft	AD 2-LMML-MISC-VC5 - 1
Visual Circuit RWY 31 for LIGHT aircraft	AD 2-LMML-MISC-VC6 - 1
Visual Circuit RWY 31 for LIGHT aircraft - low-level circuit	AD 2-LMML-MISC-VC7 - 1
Standard Left-Hand Visual Circuit RWY 31 for MEDIUM/HEAVY aircraft	AD 2-LMML-MISC-VC8 - 1



AERODROME CHART - ICAO

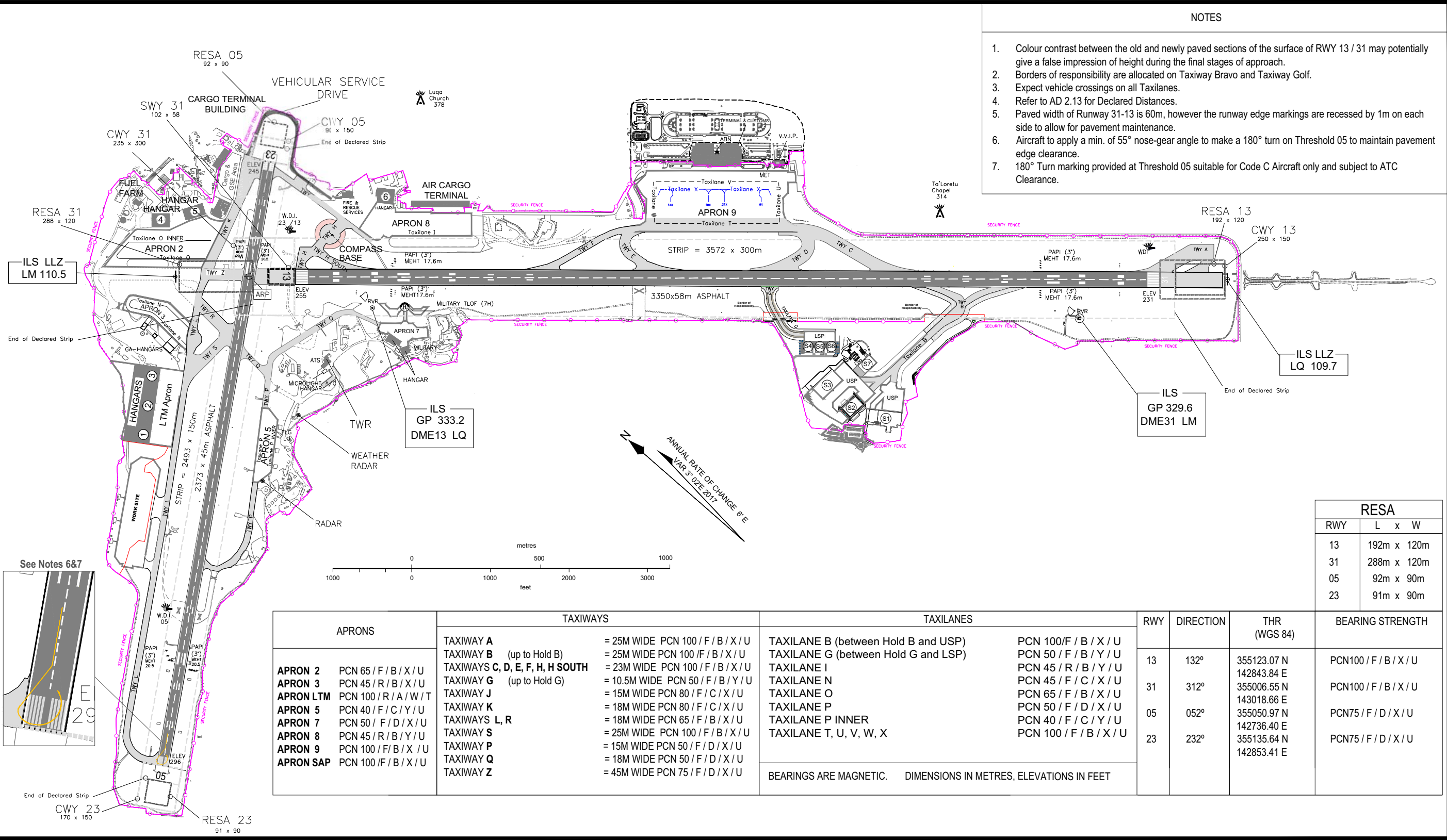
ARP 35°51'27" N  
14°28'39" E

ELEV 297 feet

TWR	135.1
GROUND	121.6

MALTA / LUQA

- NOTES
- Colour contrast between the old and newly paved sections of the surface of RWY 13 / 31 may potentially give a false impression of height during the final stages of approach.
  - Borders of responsibility are allocated on Taxiway Bravo and Taxiway Golf.
  - Expect vehicle crossings on all Taxilanes.
  - Refer to AD 2.13 for Declared Distances.
  - Paved width of Runway 31-13 is 60m, however the runway edge markings are recessed by 1m on each side to allow for pavement maintenance.
  - Aircraft to apply a min. of 55° nose-gear angle to make a 180° turn on Threshold 05 to maintain pavement edge clearance.
  - 180° Turn marking provided at Threshold 05 suitable for Code C Aircraft only and subject to ATC Clearance.



RESA		
RWY	L	W
13	192m	120m
31	288m	120m
05	92m	90m
23	91m	90m

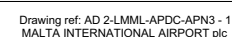
APRONS		TAXIWAYS		TAXILANES		RWY	DIRECTION	THR (WGS 84)	BEARING STRENGTH
APRON 2	PCN 65 / F / B / X / U	TAXIWAY A	= 25M WIDE PCN 100 / F / B / X / U	TAXILANE B (between Hold B and USP)	PCN 100 / F / B / X / U				
APRON 3	PCN 45 / R / B / X / U	TAXIWAY B (up to Hold B)	= 25M WIDE PCN 100 / F / B / X / U	TAXILANE G (between Hold G and LSP)	PCN 50 / F / B / Y / U	13	132°	355123.07 N	PCN100 / F / B / X / U
APRON LTM	PCN 100 / R / A / W / T	TAXIWAYS C, D, E, F, H, H SOUTH	= 23M WIDE PCN 100 / F / B / X / U	TAXILANE I	PCN 45 / R / B / Y / U	31	312°	355006.55 N	PCN100 / F / B / X / U
APRON 5	PCN 40 / F / C / Y / U	TAXIWAY G (up to Hold G)	= 10.5M WIDE PCN 50 / F / B / Y / U	TAXILANE N	PCN 45 / F / C / X / U	05	052°	355050.97 N	PCN75 / F / D / X / U
APRON 7	PCN 50 / F / D / X / U	TAXIWAY J	= 15M WIDE PCN 80 / F / C / X / U	TAXILANE O	PCN 65 / F / B / X / U	23	232°	355135.64 N	PCN75 / F / D / X / U
APRON 8	PCN 45 / R / B / Y / U	TAXIWAY K	= 18M WIDE PCN 80 / F / C / X / U	TAXILANE P	PCN 50 / F / D / X / U			142736.40 E	
APRON 9	PCN 100 / F / B / X / U	TAXIWAYS L, R	= 18M WIDE PCN 65 / F / B / X / U	TAXILANE P INNER	PCN 40 / F / C / Y / U			142853.41 E	
APRON SAP	PCN 100 / F / B / X / U	TAXIWAY S	= 25M WIDE PCN 100 / F / B / X / U	TAXILANE T, U, V, W, X	PCN 100 / F / B / X / U				
		TAXIWAY P	= 15M WIDE PCN 50 / F / D / X / U						
		TAXIWAY Q	= 18M WIDE PCN 50 / F / D / X / U						
		TAXIWAY Z	= 45M WIDE PCN 75 / F / D / X / U						
BEARINGS ARE MAGNETIC. DIMENSIONS IN METRES, ELEVATIONS IN FEET									

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**MALTA / LUQA**

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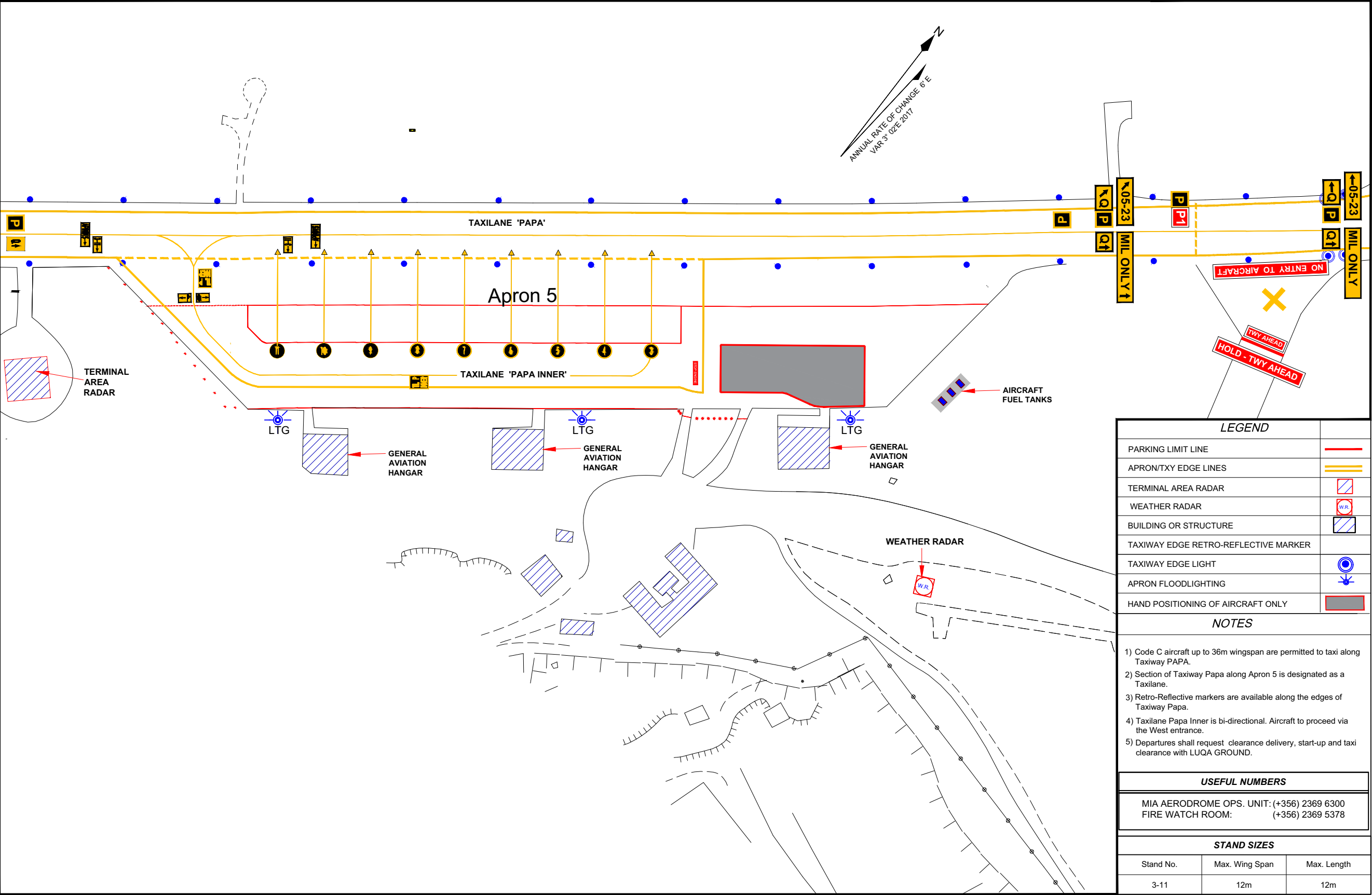
AIRCRAFT PARKING CHART - ICAO (APRON 5)

ARP 35°51'27" N  
14°28'39" E

ELEV 297 feet

TWR 135.1  
GROUND 121.6

MALTA / LUQA



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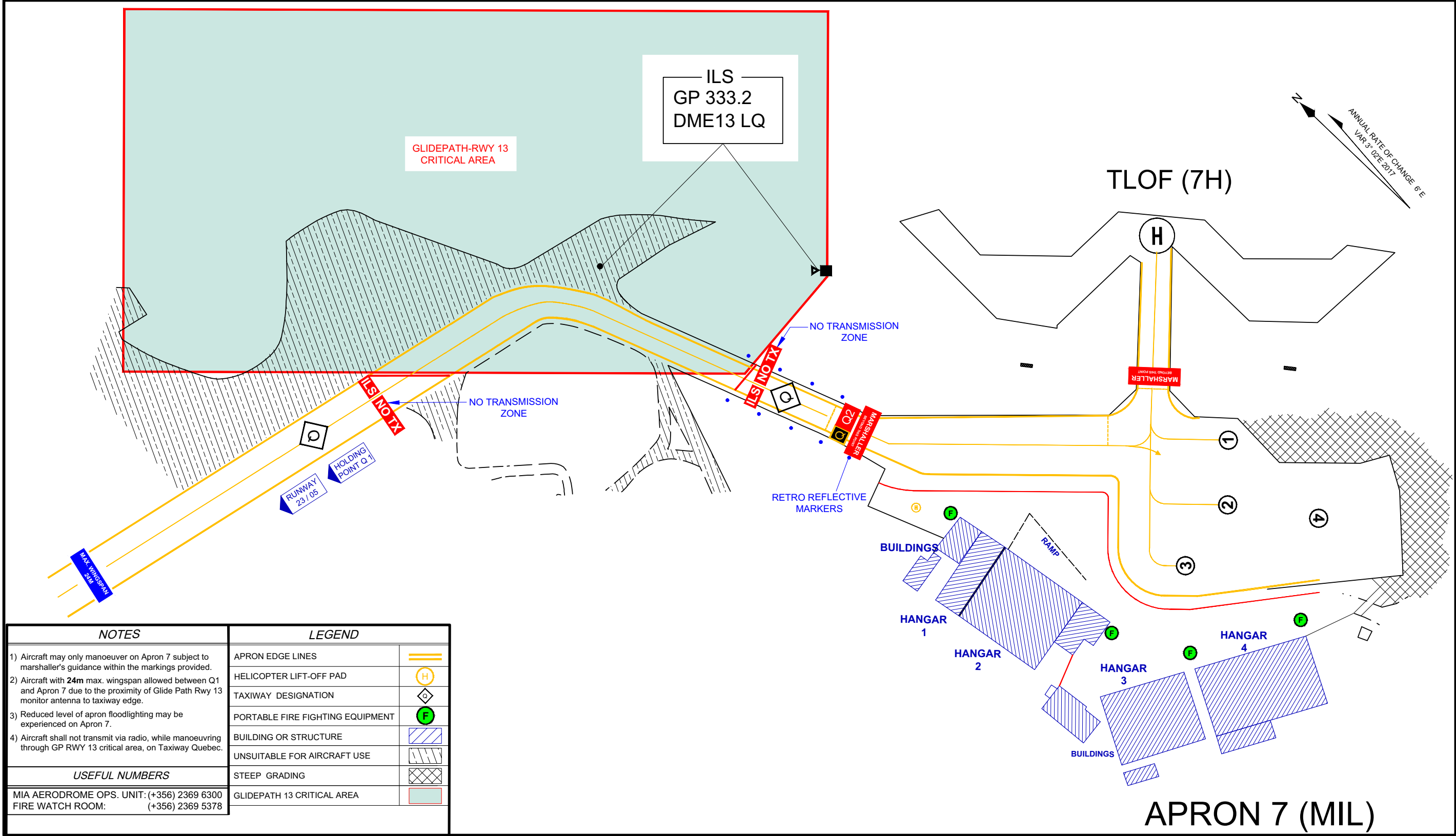
AIRCRAFT PARKING CHART - ICAO (APRON 7)

ARP 35°51'27" N  
14°28'39" E

ELEV 297 feet

TWR 135.1  
GROUND 121.6

MALTA / LUQA



Airfield Drawing Office ref: MIACA-945-2004  
MALTA INTERNATIONAL AIRPORT plc  
Technical Services Division

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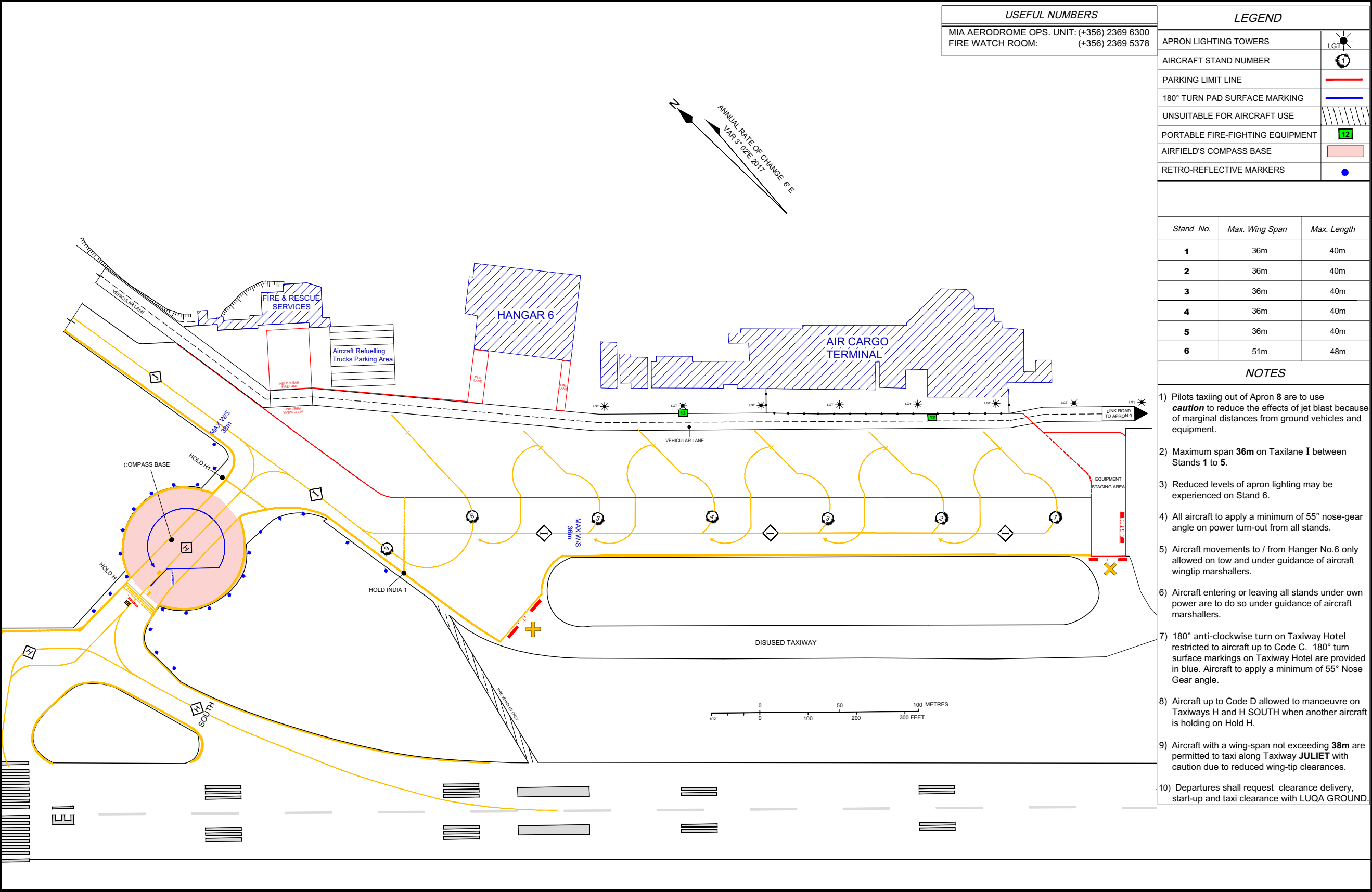
AIRCRAFT PARKING CHART - ICAO (APRON 8)

ARP 35°51'27" N  
14°28'39" E

ELEV 297 feet

TWR 135.1  
GROUND 121.6

MALTA / LUQA



Drawing Office ref: AD 2-LMML-APDC-APN8 - 1  
MALTA INTERNATIONAL AIRPORT plc

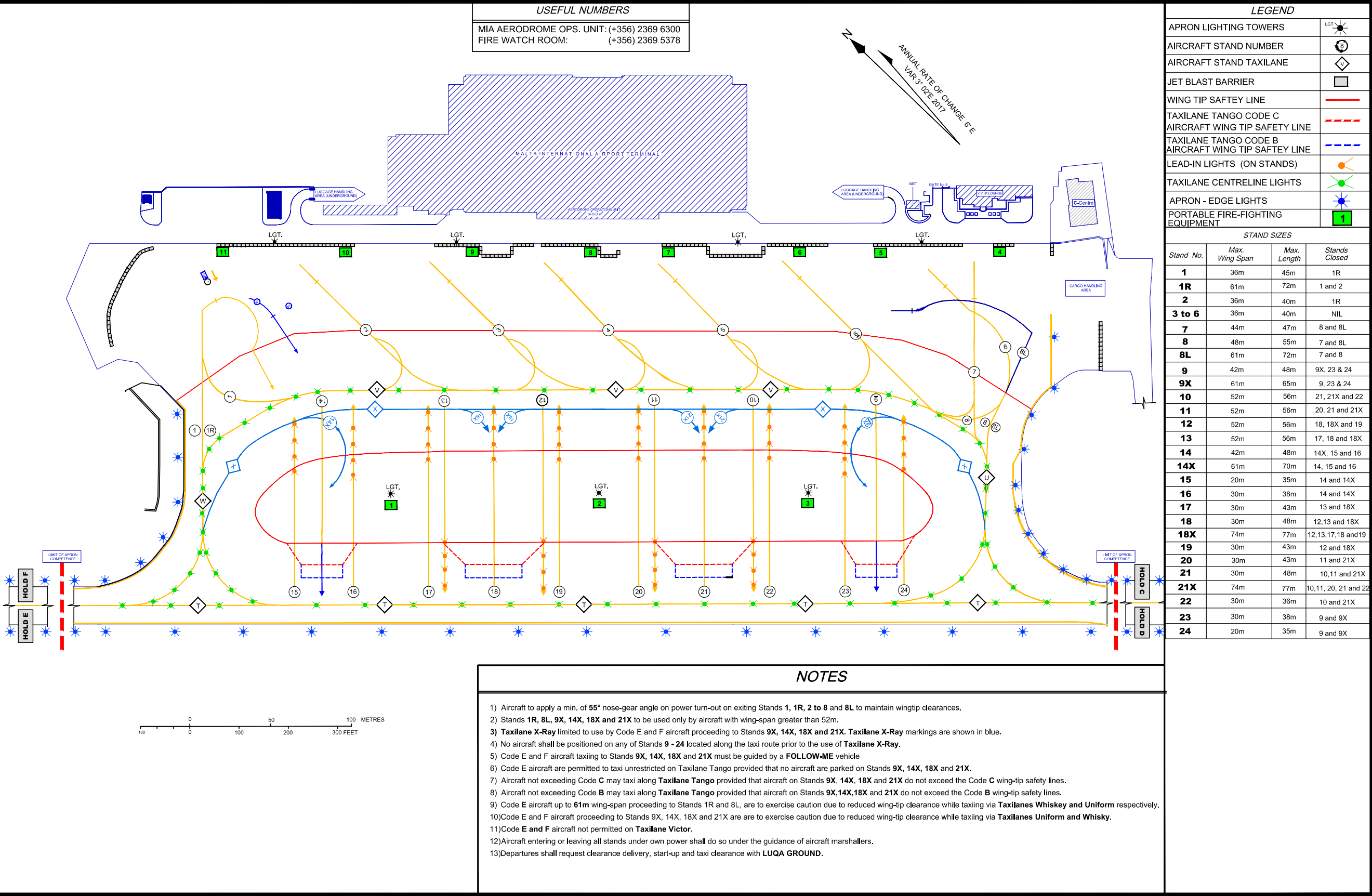
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AIRCRAFT PARKING CHART - ICAO (APRON 9)

ARP 35°51'27" N  
14°28'39" E  
ELEV 297 feet

TWR	135.1
GROUND	121.6

MALTA / LUQA



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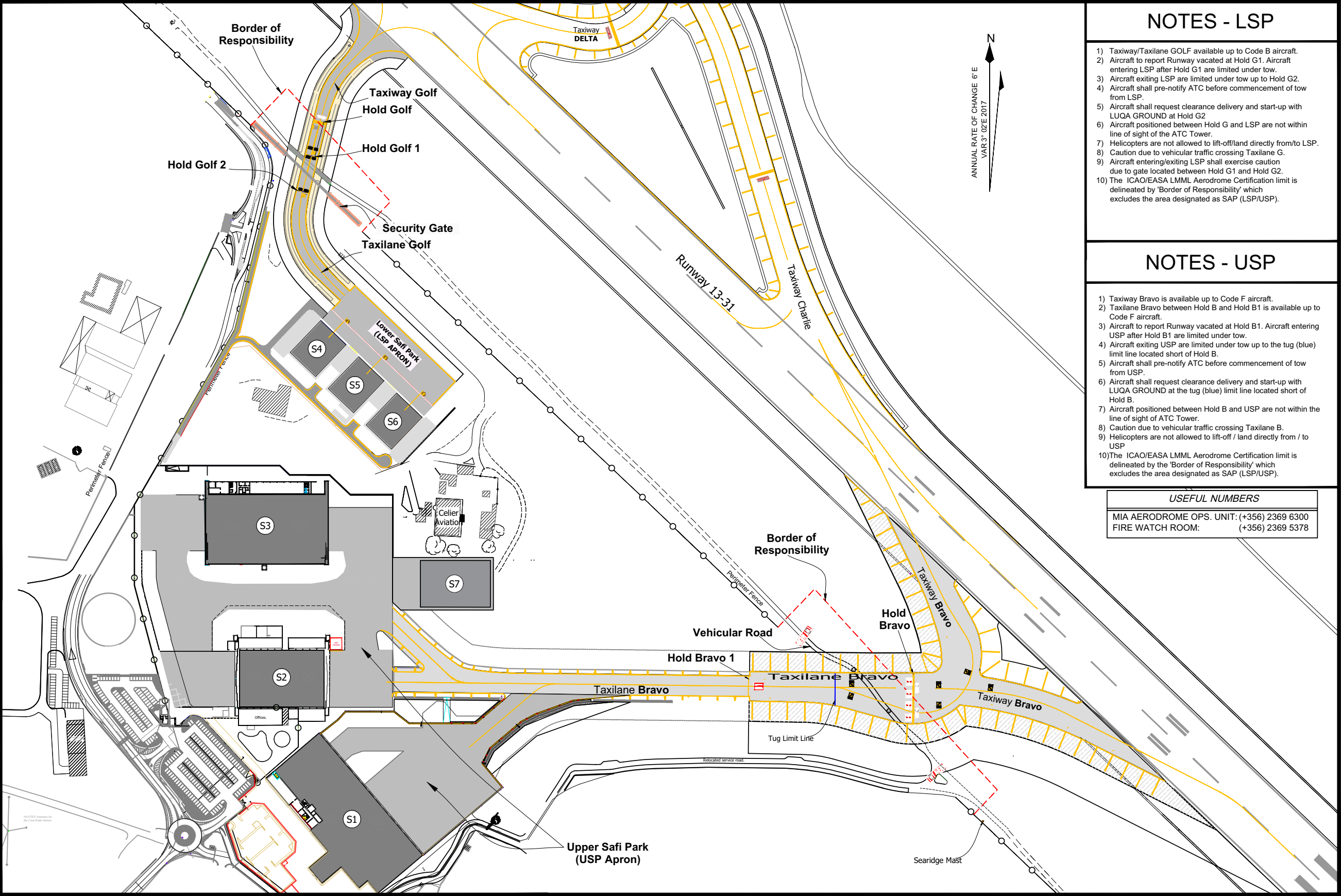


AIRCRAFT PARKING CHART - ICAO SAP (LSP / USP APRONS)

ARP 35° 51' 27" N  
14° 28' 39" E  
ELEV 297 feet

TWR	135.1
GROUND	121.6

MALTA / LUQA



NOTES - LSP

- 1) Taxiway/Taxilane GOLF available up to Code B aircraft.
- 2) Aircraft to report Runway vacated at Hold G1. Aircraft entering LSP after Hold G1 are limited under tow.
- 3) Aircraft exiting LSP are limited under tow up to Hold G2.
- 4) Aircraft shall pre-notify ATC before commencement of tow from LSP.
- 5) Aircraft shall request clearance delivery and start-up with LUQA GROUND at Hold G2.
- 6) Aircraft positioned between Hold G and LSP are not within line of sight of the ATC Tower.
- 7) Helicopters are not allowed to lift-off/land directly from/to LSP.
- 8) Caution due to vehicular traffic crossing Taxilane G.
- 9) Aircraft entering/exiting LSP shall exercise caution due to gate located between Hold G1 and Hold G2.
- 10) The ICAO/EASA LMML Aerodrome Certification limit is delineated by 'Border of Responsibility' which excludes the area designated as SAP (LSP/USP).

NOTES - USP

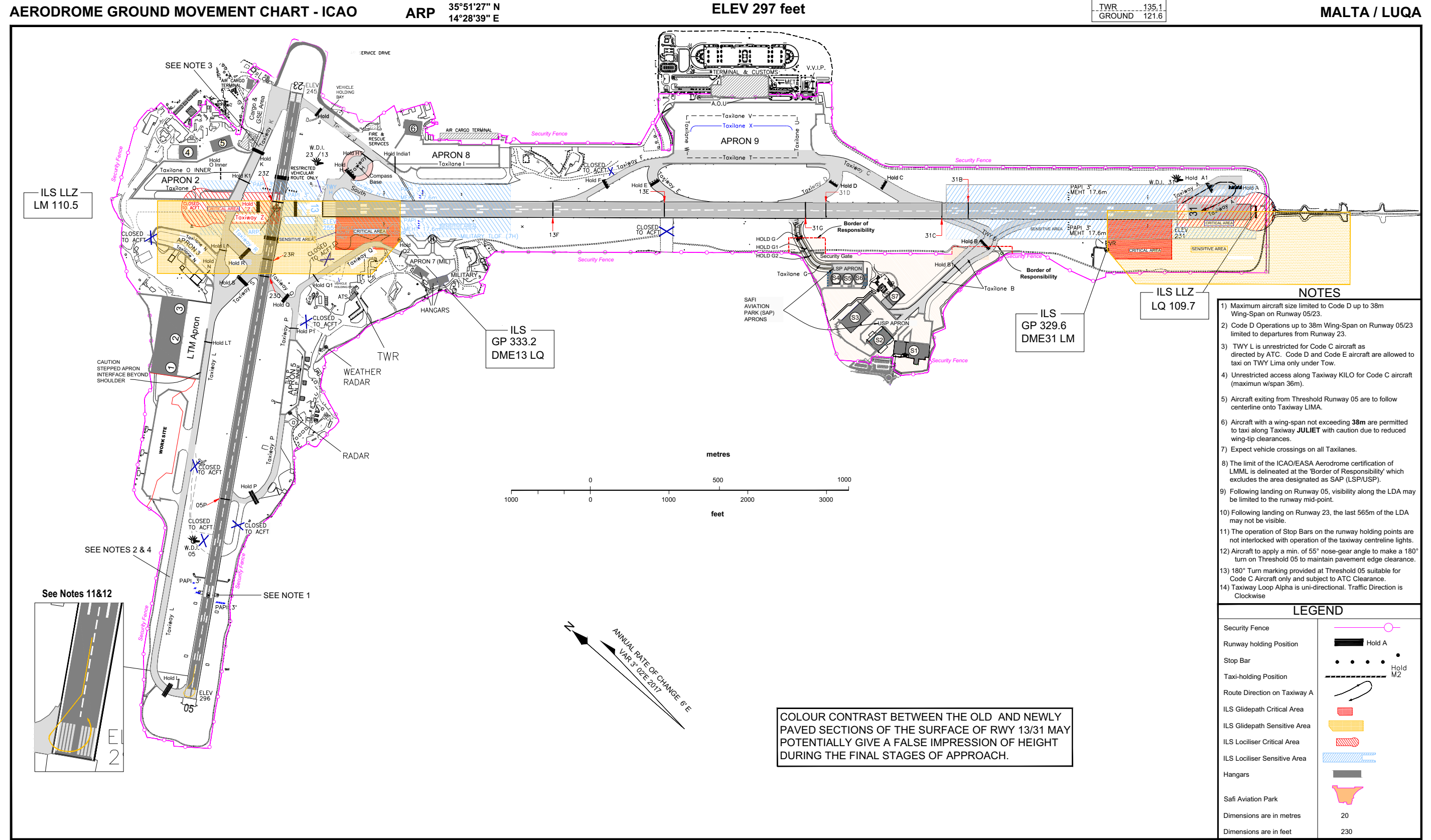
- 1) Taxiway Bravo is available up to Code F aircraft.
- 2) Taxilane Bravo between Hold B and Hold B1 is available up to Code F aircraft.
- 3) Aircraft to report Runway vacated at Hold B1. Aircraft entering USP after Hold B1 are limited under tow.
- 4) Aircraft exiting USP are limited under tow up to the tug (blue) limit line located short of Hold B.
- 5) Aircraft shall pre-notify ATC before commencement of tow from USP.
- 6) Aircraft shall request clearance delivery and start-up with LUQA GROUND at the tug (blue) limit line located short of Hold B.
- 7) Aircraft positioned between Hold B and USP are not within the line of sight of ATC Tower.
- 8) Caution due to vehicular traffic crossing Taxilane B.
- 9) Helicopters are not allowed to lift-off / land directly from / to USP.
- 10) The ICAO/EASA LMML Aerodrome Certification limit is delineated by the 'Border of Responsibility' which excludes the area designated as SAP (LSP/USP).

USEFUL NUMBERS

MIA AERODROME OPS. UNIT: (+356) 2369 6300  
FIRE WATCH ROOM: (+356) 2369 5378

Drawing Office ref: AD 2-LMML-APDC-APNSAF - 1  
MALTA INTERNATIONAL AIRPORT plc

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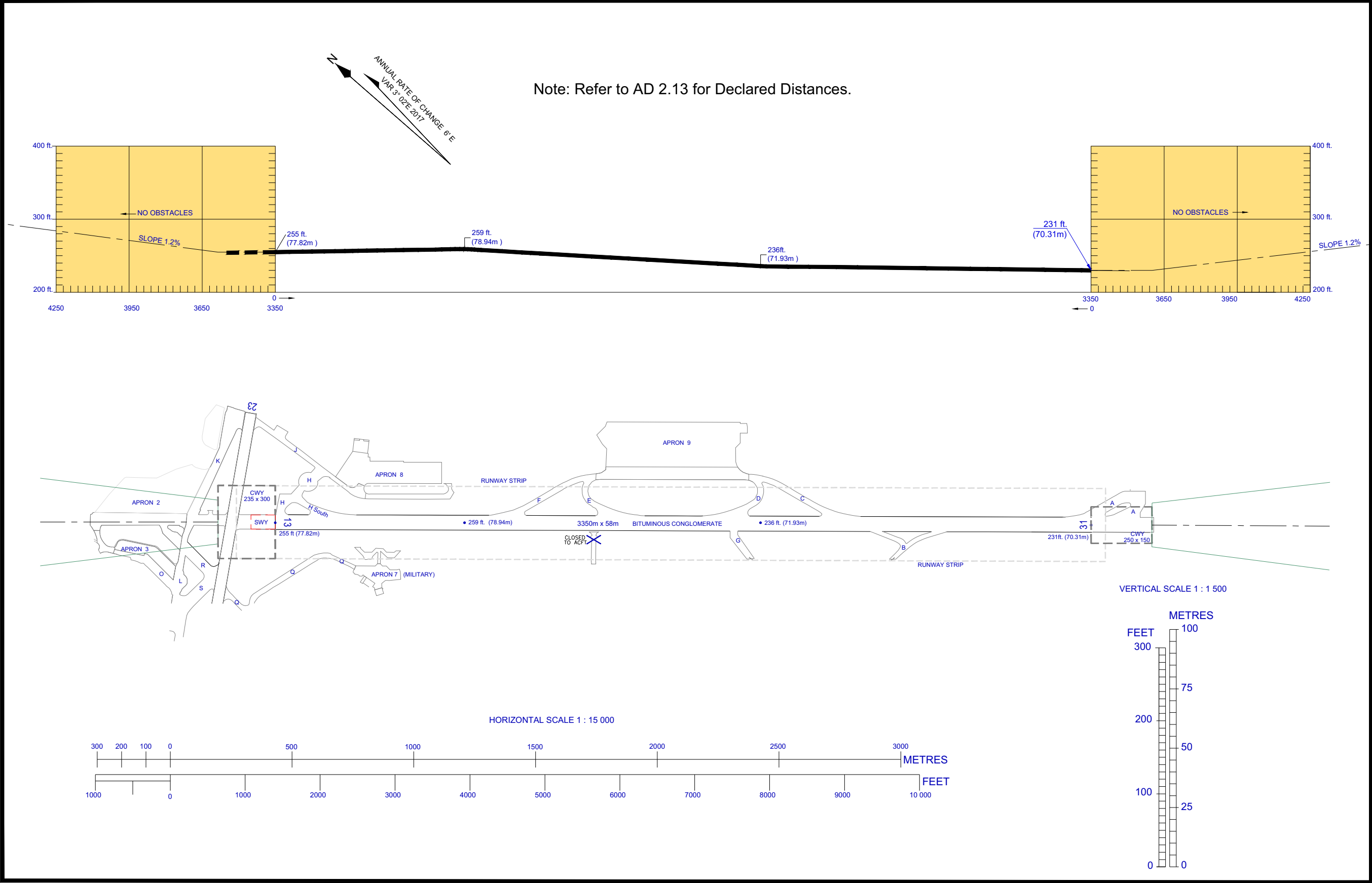


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HORIZONTAL DIMENSIONS IN METRES - ELEVATIONS IN FEET.

AERODROME OBSTACLE CHART - ICAO TYPE A (Operating Limitations) Runway 13 - 31

MALTA / LUQA



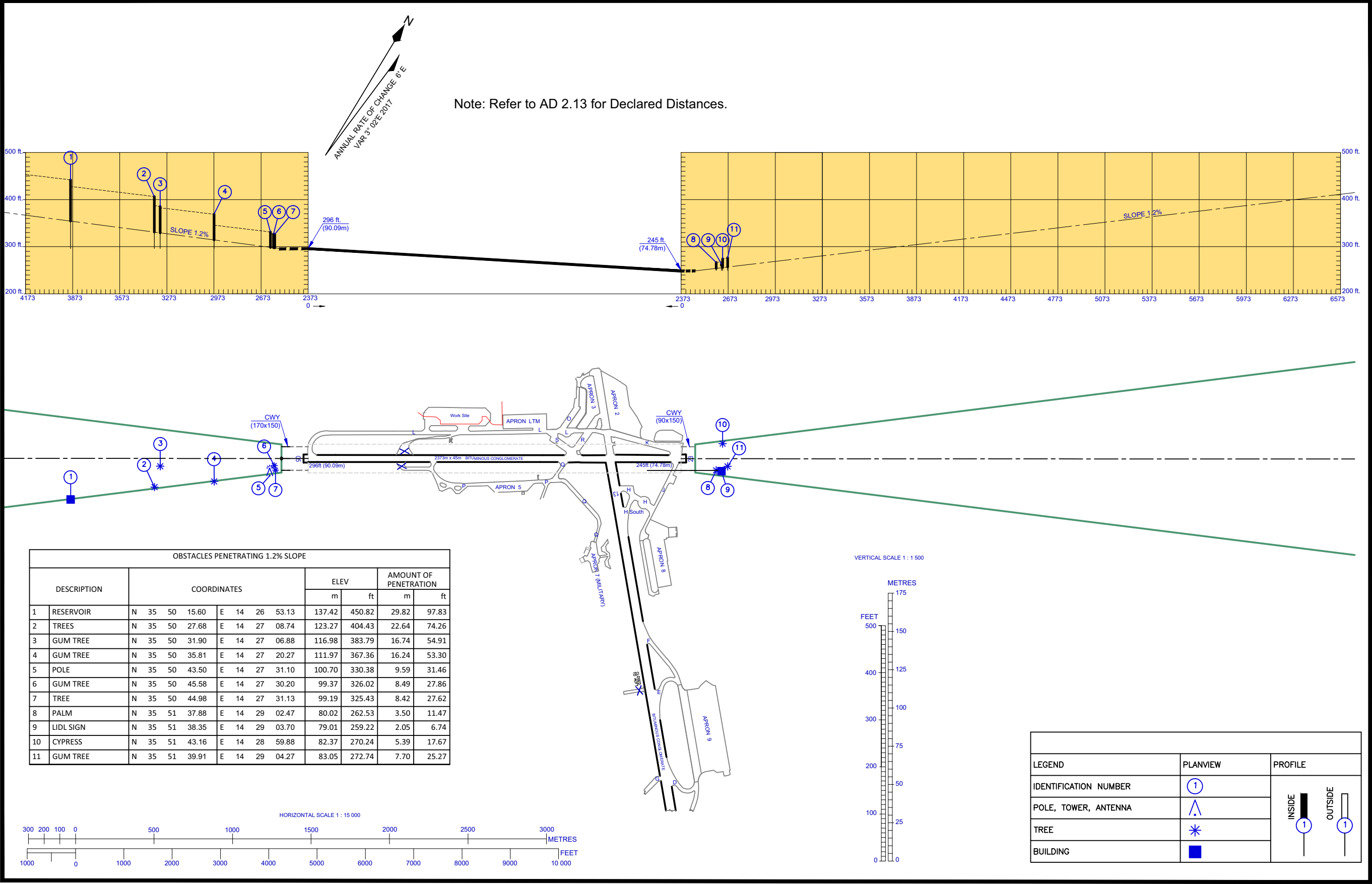
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HORIZONTAL DIMENSIONS IN METRES - ELEVATIONS IN FEET.

AERODROME OBSTACLE CHART - ICAO TYPE A (Operating Limitations) Runway 05 - 23

MALTA / LUQA

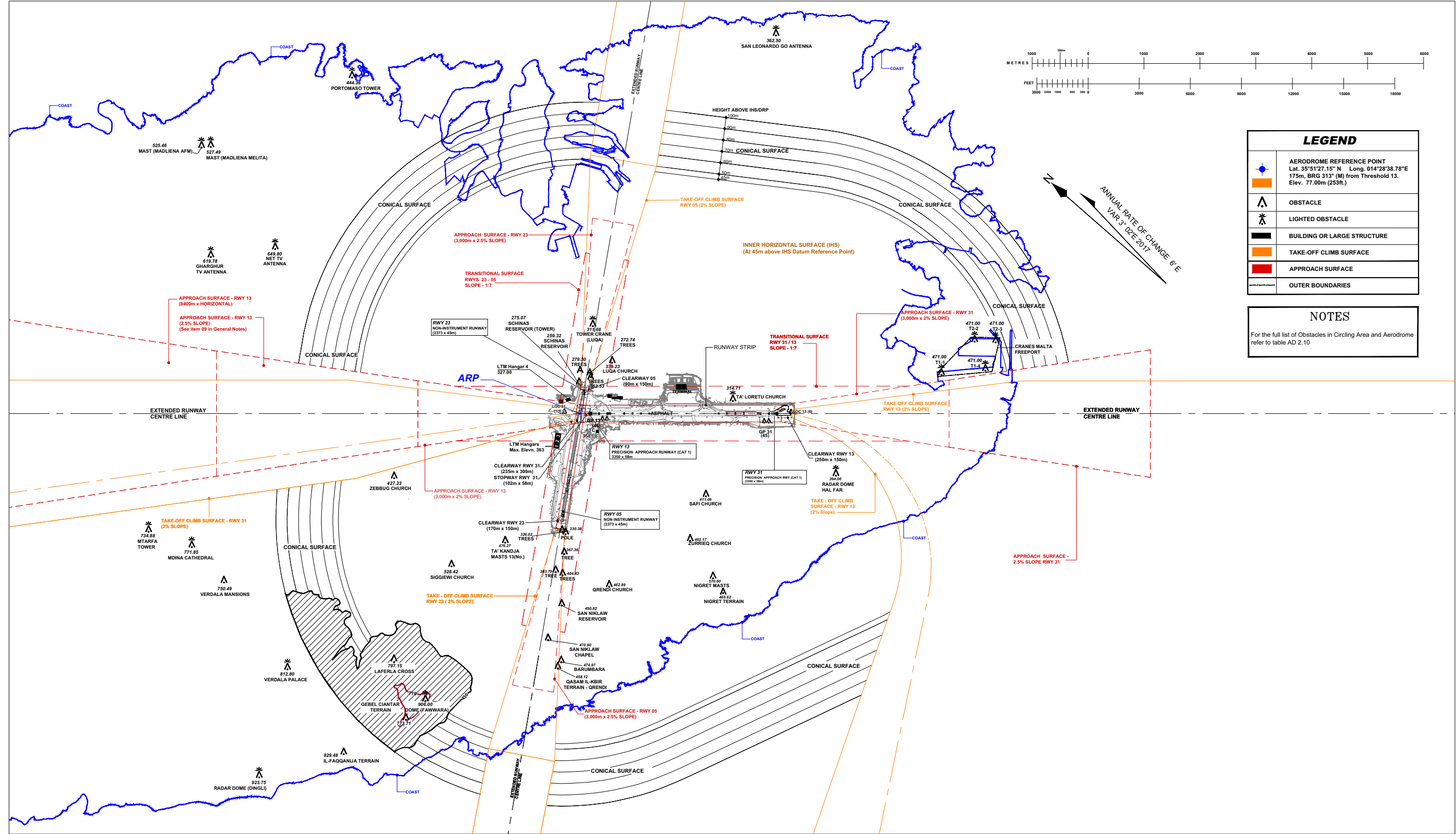


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AERODROME OBSTACLE CHART - ICAO (TYPE B)

MALTA / LUQA



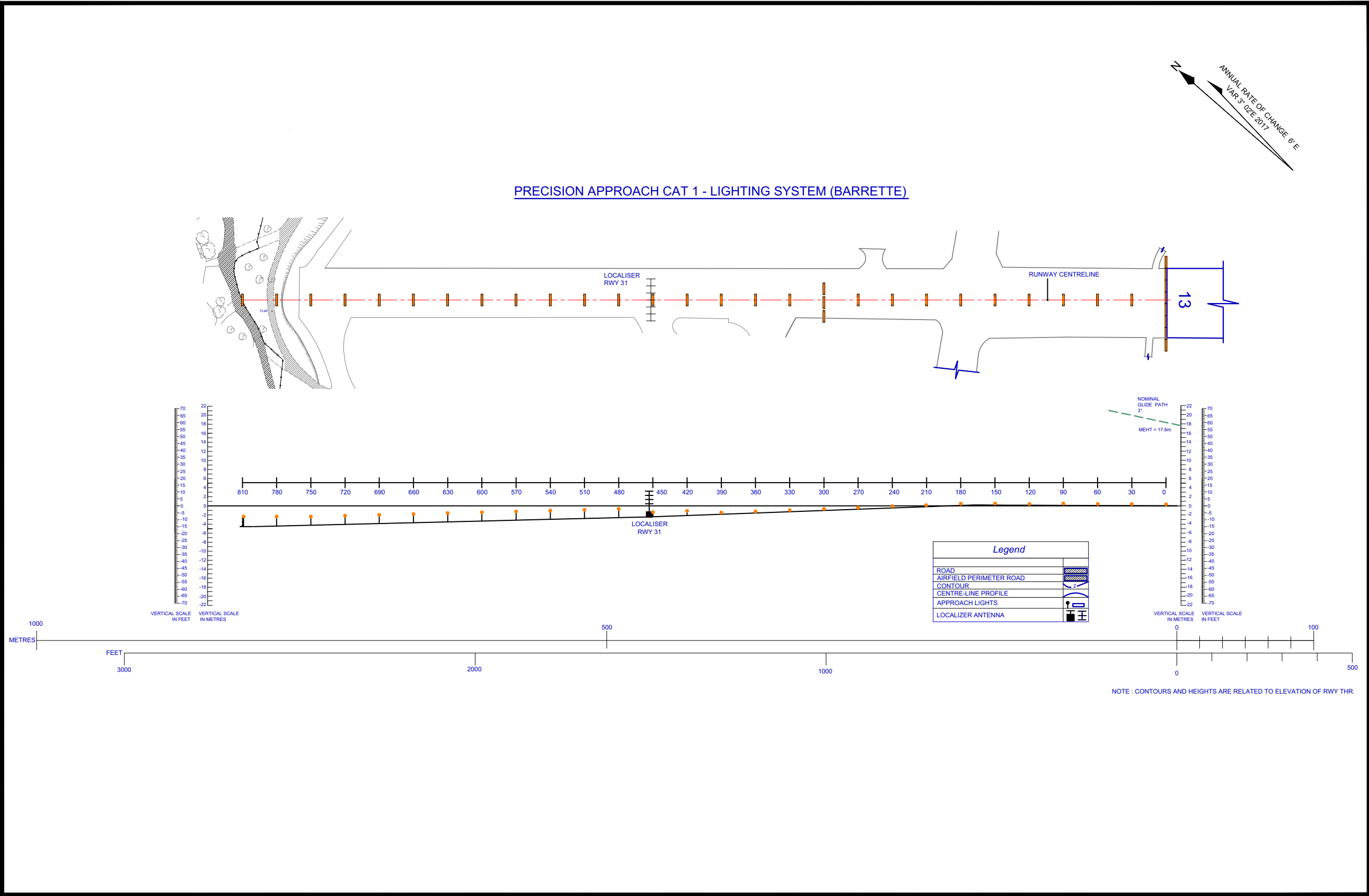
Drawing Office ref: AD 2-LMML-AOC-B - 1 MALTA INTERNATIONAL AIRPORT plc

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PRECISION APPROACH TERRAIN CHART - ICAO (RWY 13)

MALTA / LUQA

DISTANCES AND HEIGHTS IN METRES / FEET



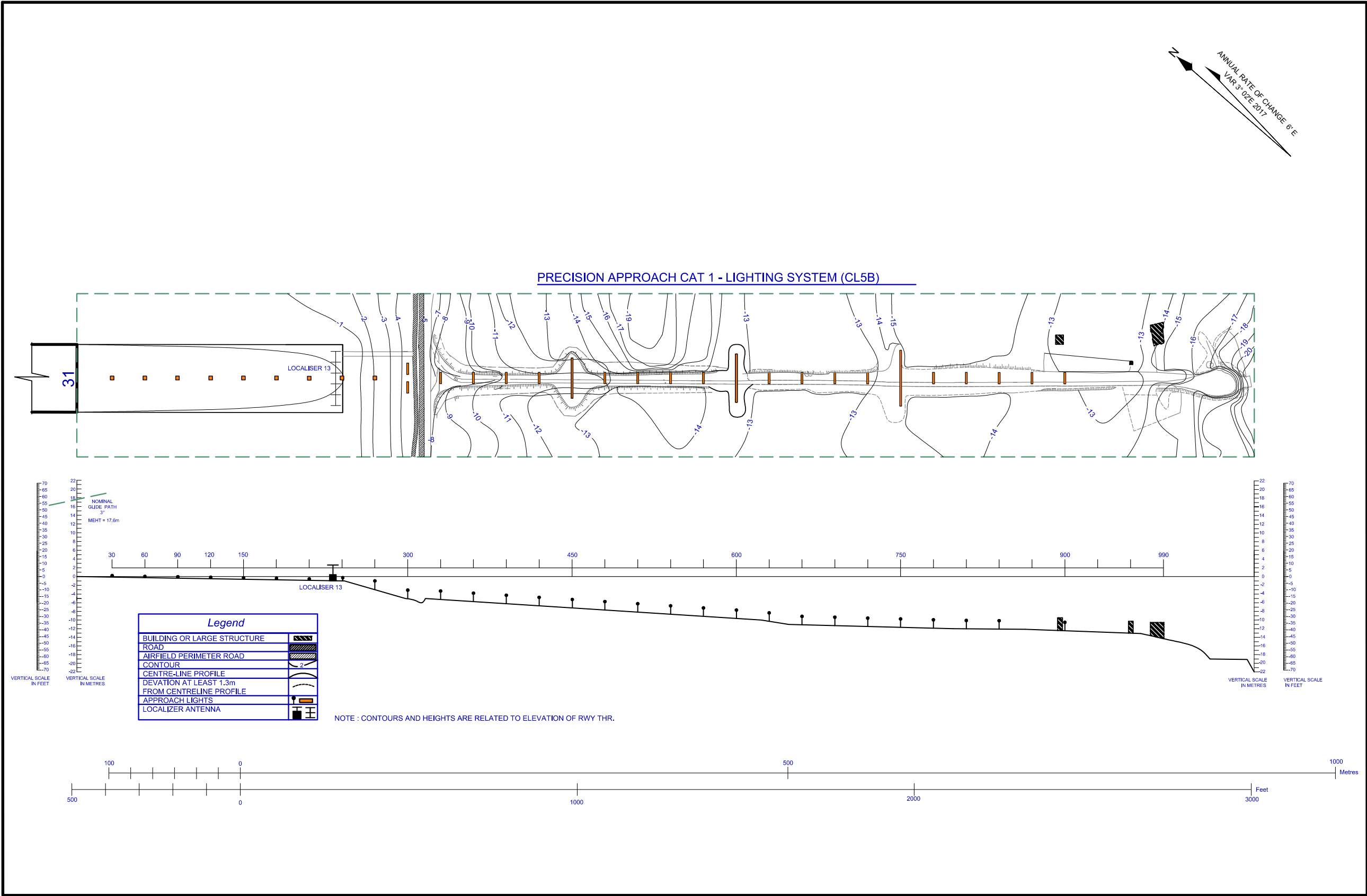
Drawing Office ref: AD 2-LMML-PATC13 - 1  
MALTA INTERNATIONAL AIRPORT plc

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PRECISION APPROACH TERRAIN CHART - ICAO (RWY 31)

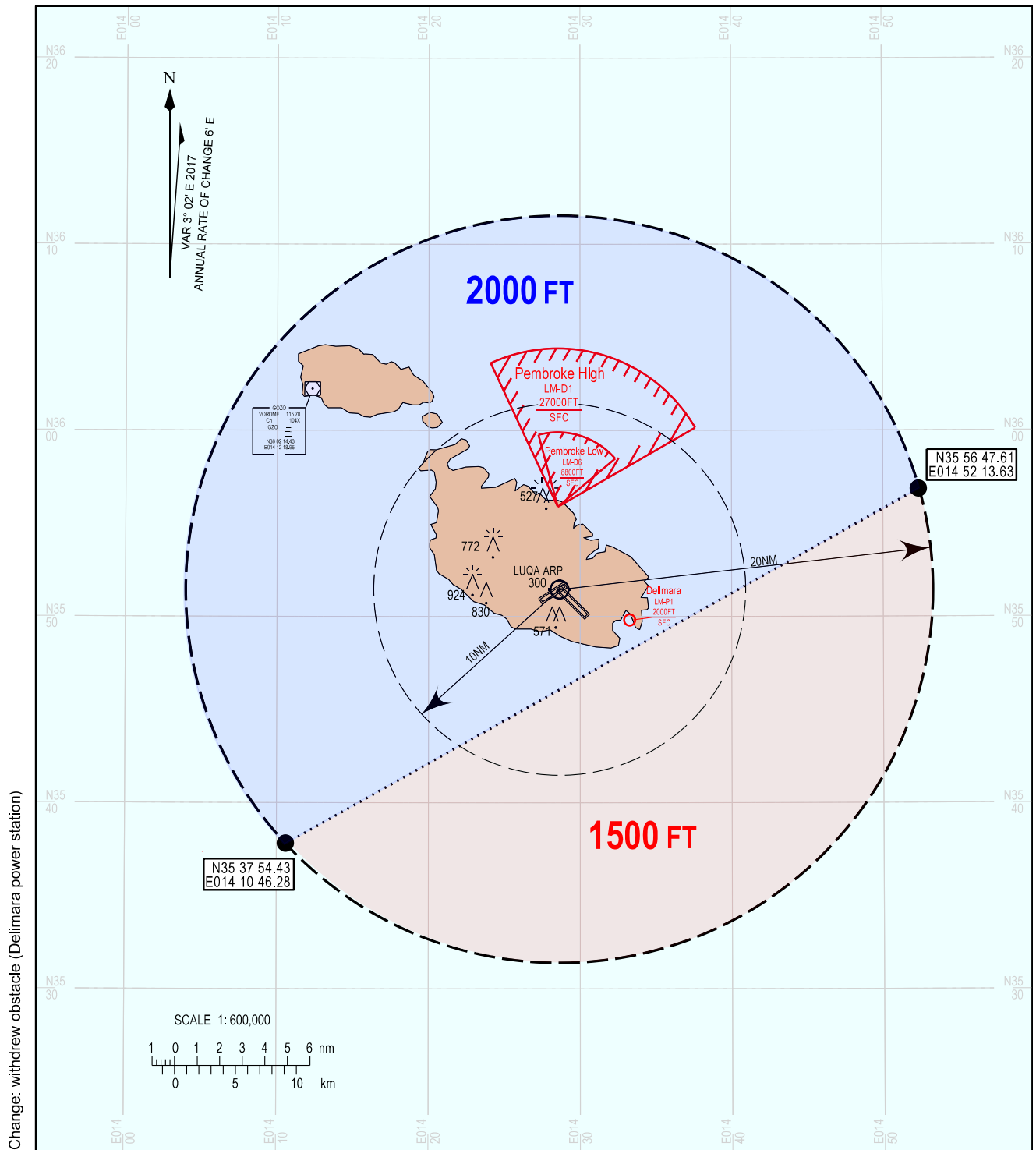
MALTA / LUQA

DISTANCES AND HEIGHTS IN METERS / FEET



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ATC SURVEILLANCE MINIMUM ALTITUDE CHART — ICAO



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STANDARD DEPARTURE CHART -  
INSTRUMENT (SID) - ICAO

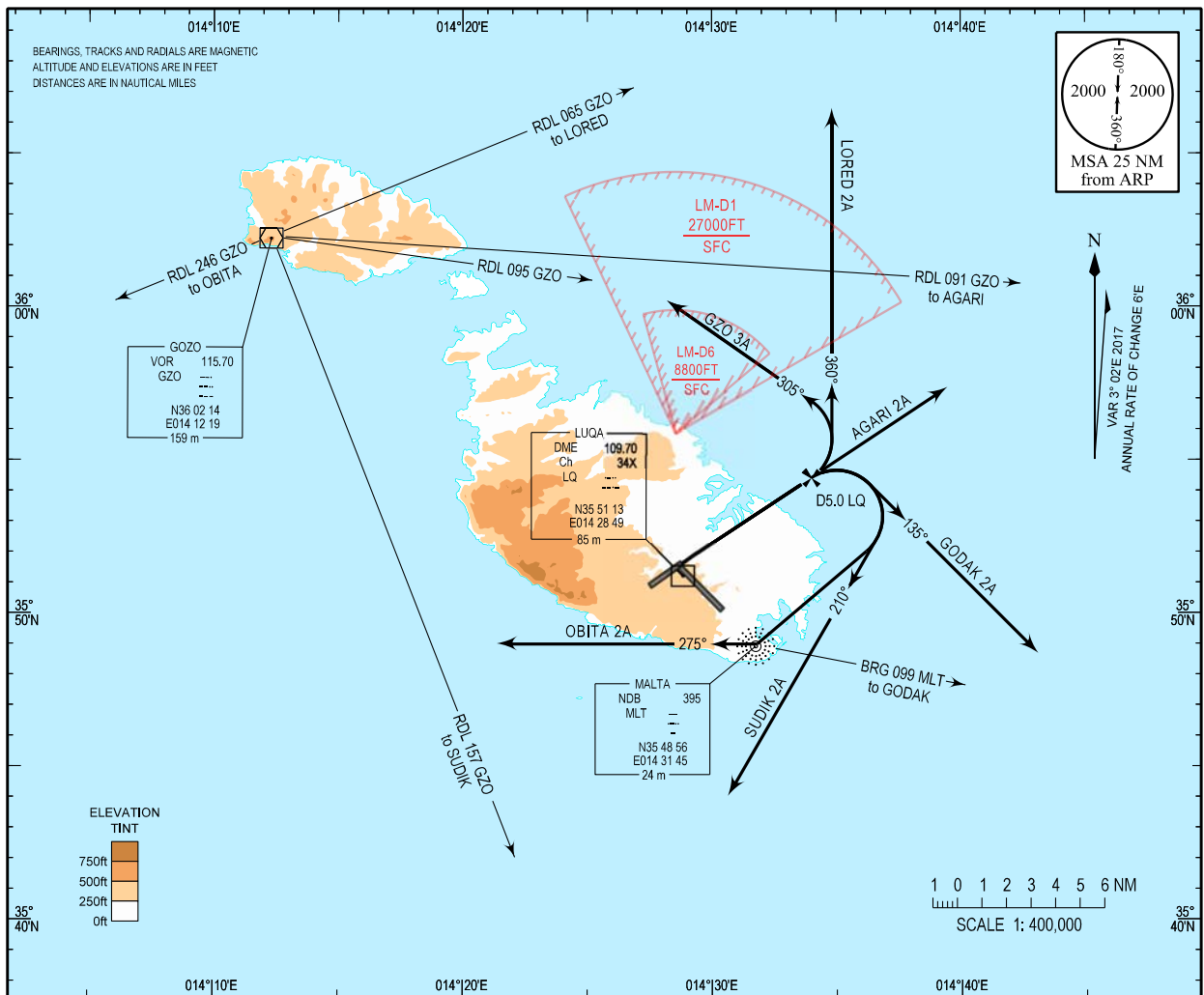
TRANSITION ALTITUDE 5000FT

GND	Luqa GND	121.600
TWR	Luqa TWR	135.100
APP	Luqa Radar	128.150
DEP ATIS	Luqa Information	127.000

## LUQA (LMML)

## RWY 05

AGARI 2A	GODAK 2A
GZO 3A	LORED 2A
OBITA 2A	SUDIK 2A



SID	ROUTING	INITIAL CLIMB	CONTACT	RESTRICTIONS
AGARI 2A	Straight ahead, intercept GZO R091 inbound to AGARI.	Climb to maintain 5000 unless otherwise instructed by ATC.	Remain on TWR frequency until passing 2000, then contact Luqa Radar on 128.150.	Cross LQ 5.0 DME at 2500 or above.  No speed restrictions unless otherwise instructed by ATC.
GODAK 2A	Straight ahead until LQ 5.0 DME, turn right, make a track of 135, intercept MLT BRG 099 inbound to GODAK.			
GZO 3A	Straight ahead until LQ 5.0 DME, turn left, make a track of 305, intercept GZO R095 inbound to GZO VOR.			
LORED 2A	Straight ahead until LQ 5.0 DME, turn left, make a track of 360, intercept GZO R065 inbound to LORED.			
OBITA 2A	Straight ahead until LQ 5.0 DME, turn right inbound to MLT NDB, make a track of 275, intercept GZO R246 inbound to OBITA.			
SUDIK 2A	Straight ahead until LQ 5.0 DME, turn right, make a track of 210, intercept GZO R157 inbound to SUDIK.			

Change: updated DEP ATIS frequency

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STANDARD DEPARTURE CHART -  
INSTRUMENT (SID) - ICAO

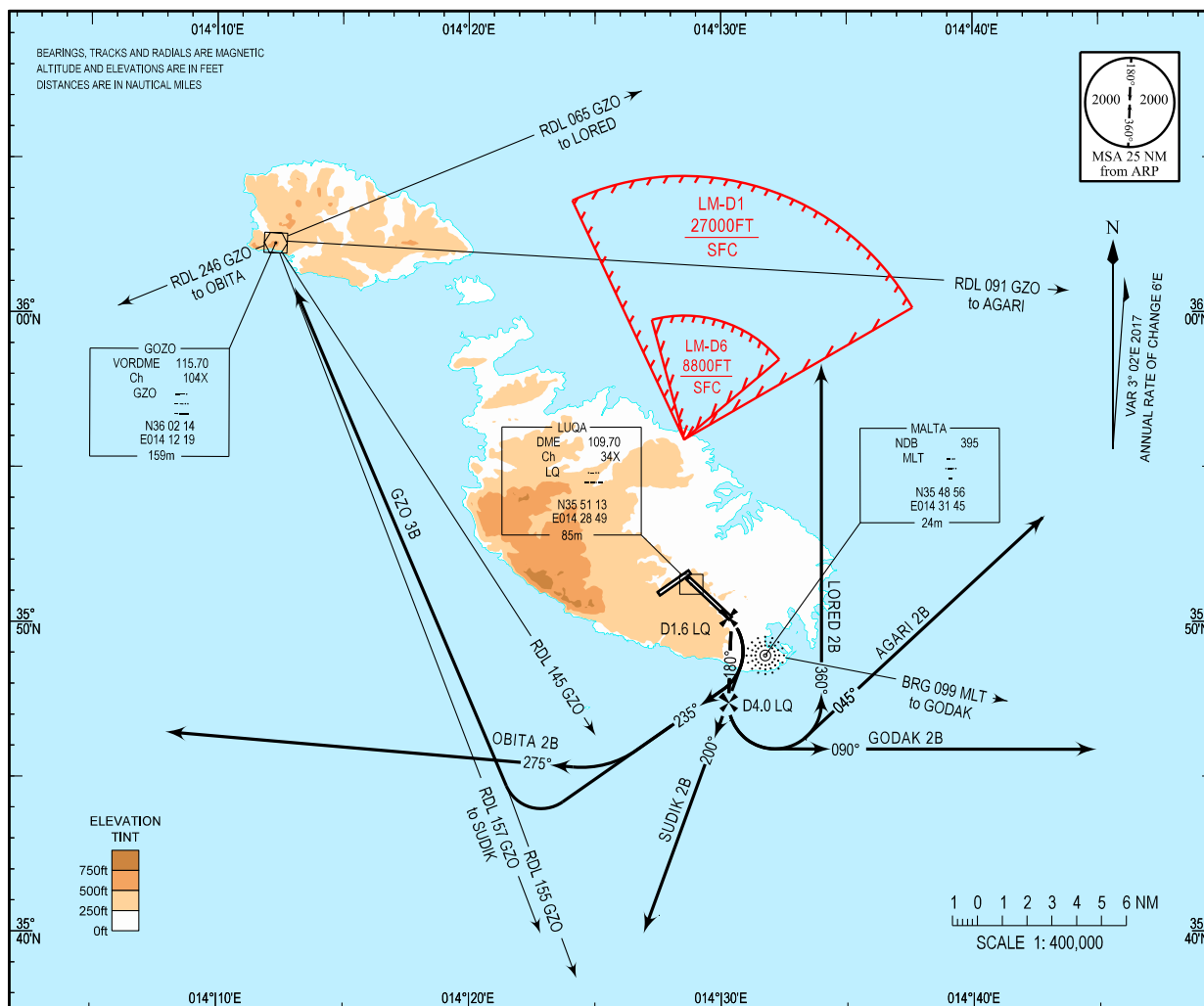
TRANSITION ALTITUDE 5000FT

GND	Luqa GND	121.600
TWR	Luqa TWR	135.100
APP	Luqa Radar	128.150
DEP ATIS	Luqa Information	127.000

## LUQA (LMML)

## RWY 13

AGARI 2B	GODAK 2B
GZO 3B	LORED 2B
OBITA 2B	SUDIK 2B



SID	ROUTING	INITIAL CLIMB	CONTACT	RESTRICTIONS
AGARI 2B	Straight ahead until LQ 1.6 DME, turn right, make a track of 180 until LQ 4.0 DME, turn left, make a track of 045, intercept GZO R091 inbound to AGARI.	Right turn after departure not below altitude 700.  Climb to maintain 5000 unless otherwise instructed by ATC.	Remain on TWR frequency until passing 2000, then contact Luqa Radar on 128.150.	No speed restrictions unless otherwise instructed by ATC.
GODAK 2B	Straight ahead until LQ 1.6 DME, turn right, make a track of 180 until LQ 4.0 DME, turn left, make a track of 090, intercept MLT BRG 099 inbound to GODAK.			Cross GZO R145 at 2500 or above. No speed restrictions unless otherwise instructed by ATC.
GZO 3B	Straight ahead until LQ 1.6 DME, turn right, make a track of 235 until crossing GZO R145, turn right, intercept GZO R155 inbound to GZO VOR.			No speed restrictions unless otherwise instructed by ATC.
LORED 2B	Straight ahead until LQ 1.6 DME, turn right, make a track of 180 until LQ 4.0 DME, turn left, make a track of 360, intercept GZO R065 inbound to LORED.			Cross GZO R145 at 2500 or above. No speed restrictions unless otherwise instructed by ATC.
OBITA 2B	Straight ahead until LQ 1.6 DME, turn right, make a track of 235 until crossing GZO R145, turn right, make a track of 275, intercept GZO R246 inbound to OBITA.			No speed restrictions unless otherwise instructed by ATC.
SUDIK 2B	Straight ahead until LQ 1.6 DME, turn right, make a track of 200, intercept GZO R157 inbound to SUDIK.			No speed restrictions unless otherwise instructed by ATC.

Change: updated DEP ATIS frequency

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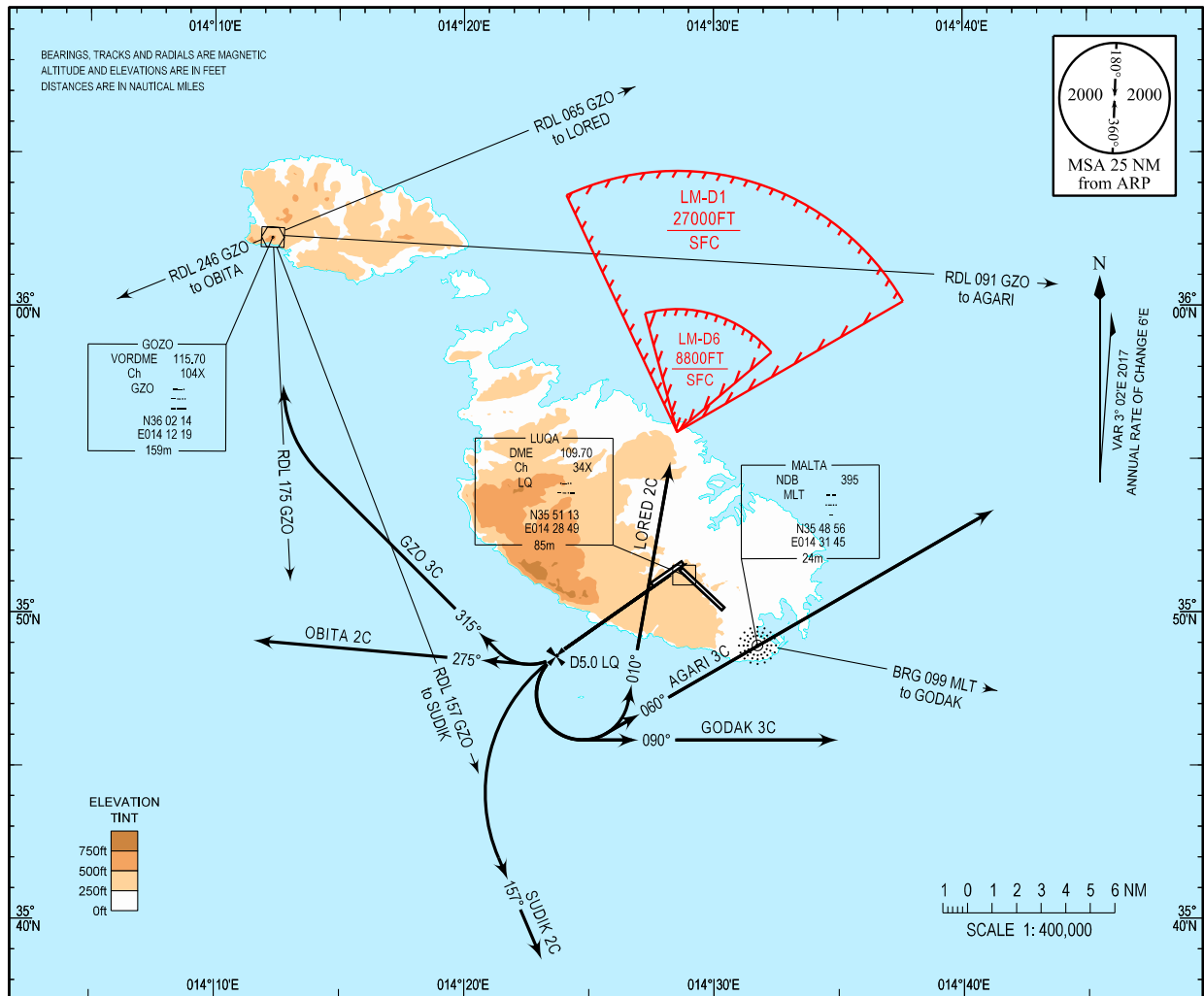
STANDARD DEPARTURE CHART -  
INSTRUMENT (SID) - ICAO

TRANSITION ALTITUDE 5000FT

GND	Luqa GND	121.600
TWR	Luqa TWR	135.100
APP	Luqa Radar	128.150
DEP ATIS	Luqa Information	127.000

LUQA (LMML)  
RWY 23

AGARI 3C	GODAK 3C
GZO 3C	LORED 2C
OBITA 2C	SUDIK 2C



Change: updated DEP ATIS frequency

SID	ROUTING	INITIAL CLIMB	CONTACT	RESTRICTIONS
AGARI 3C	Straight ahead until LQ 5.0 DME, turn left, make a track of 060 intercept GZO R091 inbound to AGARI.	Climb to maintain 5000 unless otherwise instructed by ATC.	Remain on TWR frequency until passing 2000, then contact Luqa Radar on 128.150.	Cross LQ 5.0 DME at 2500 or above.  No speed restrictions unless otherwise instructed by ATC.
GODAK 3C	Straight ahead until LQ 5.0 DME, turn left, make a track of 090 intercept MLT BRG 099 inbound to GODAK.			
GZO 3C	Straight ahead until LQ 5.0 DME, turn right, make a track of 315 intercept GZO R176 inbound to GZO VOR.			
LORED 2C	Straight ahead until LQ 5.0 DME, turn left, make a track of 010 intercept GZO R065 inbound to LORED.			
OBITA 2C	Straight ahead until LQ 5.0 DME, turn right, make a track of 275 intercept GZO R246 inbound to OBITA.			
SUDIK 2C	Straight ahead until LQ 5.0 DME, turn left, intercept GZO R157 inbound to SUDIK.			

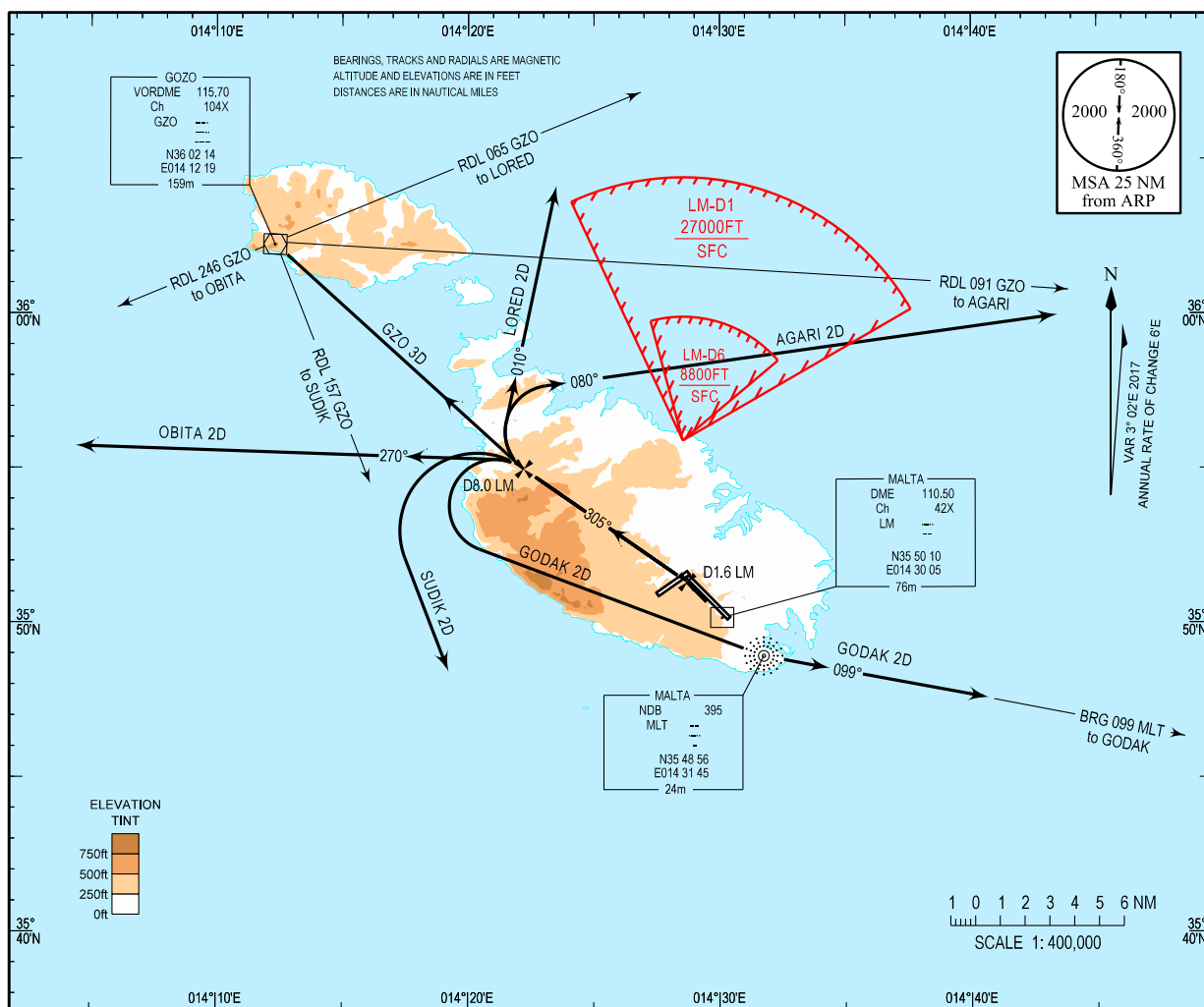
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TRANSITION ALTITUDE 5000FT

GND	Luqa GND	121.600
TWR	Luqa TWR	135.100
APP	Luqa Radar	128.150
DEP ATIS	Luqa Information	127.000

## RWY 31

AGARI 2D	GODAK 2D
GZO 3D	LORED 2D
OBITA 2D	SUDIK 2D



SID	ROUTING	INITIAL CLIMB	CONTACT	RESTRICTIONS
AGARI 2D	Straight ahead until LM 1.6 DME, turn left, make a track of 305 until LM 8.0 DME, turn right, make a track of 080, intercept GZO R091 inbound to AGARI.	Climb to maintain 5000 unless otherwise instructed by ATC.	Remain on TWR frequency until passing 2000, then contact Luqa Radar on 128.150.	Cross LM 8.0 DME at 2500 or above.  No speed restrictions unless otherwise instructed by ATC.
GODAK 2D	Straight ahead until LM 1.6 DME, turn left, make a track of 305 until LM 8.0 DME, turn left inbound to MLT NDB, intercept MLT BRG 099 inbound to GODAK.			
GZO 3D	Straight ahead until LM 1.6 DME, turn left, make a track of 305 until LM 8.0 DME, turn right inbound to GZO VOR.			
LORED 2D	Straight ahead until LM 1.6 DME, turn left, make a track of 305 until LM 8.0 DME, turn right, make a track of 010, intercept GZO R065 inbound to LORED.			
OBITA 2D	Straight ahead until LM 1.6 DME, turn left, make a track of 305 until LM 8.0 DME, turn left, make a track of 270, intercept GZO R246 inbound to OBITA.			
SUDIK 2D	Straight ahead until LM 1.6 DME, turn left, make a track of 305 until LM 8.0 DME, turn left, intercept GZO R157 inbound to SUDIK.			

Change: updated DEP ATIS frequency

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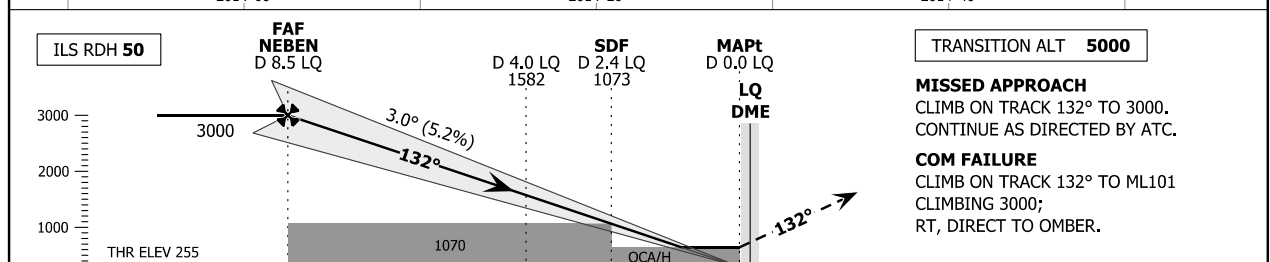
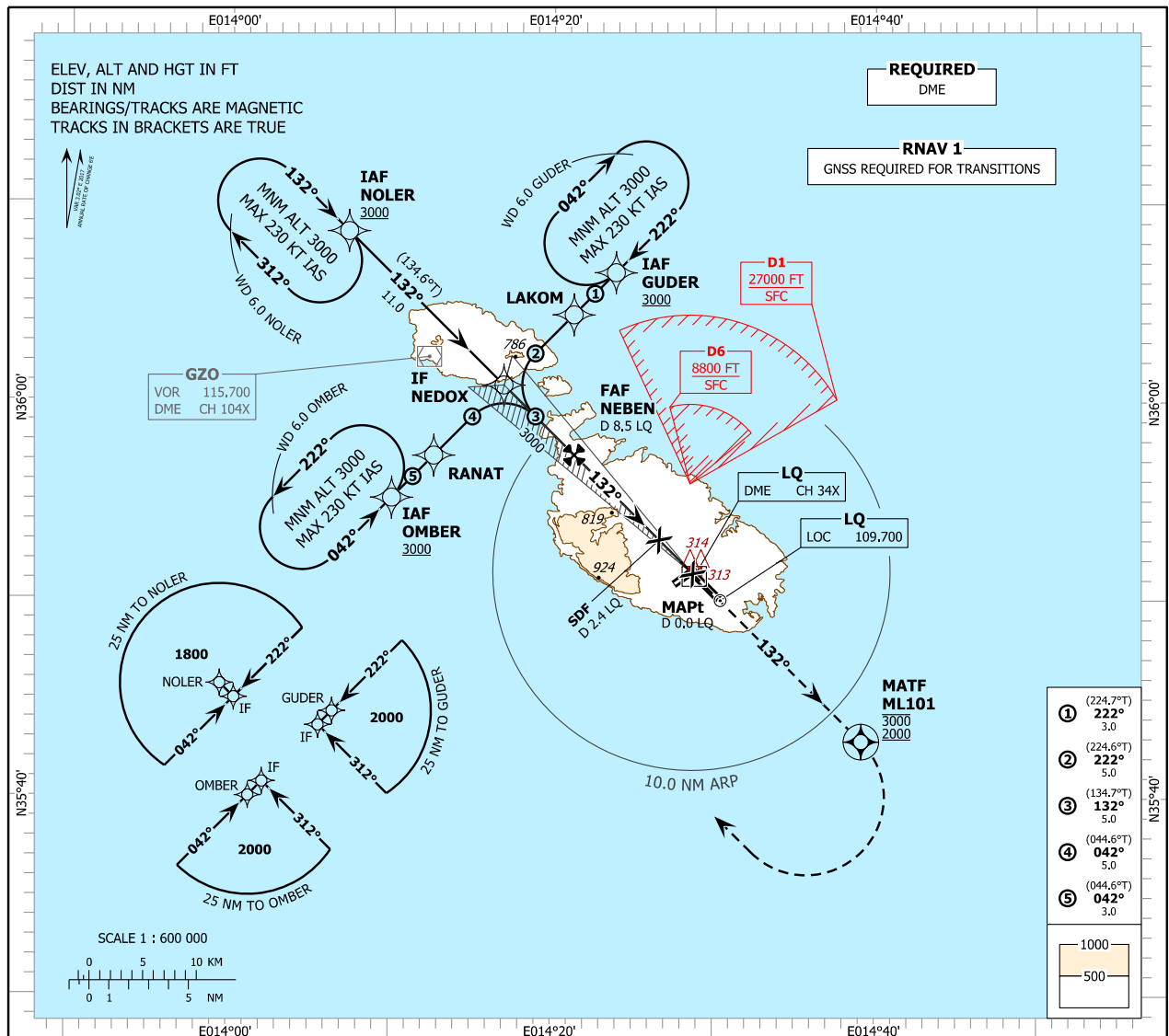


**INSTRUMENT  
APPROACH  
CHART - ICAO**

AD ELEV 297  
OCH RELATED TO  
THR RWY 13 ELEV 255

GND	Luqa GND	121.600
TWR	Luqa TWR	135.100
APP	Luqa Radar	128.150
ARR ATIS	Luqa Information	127.400

**MALTA/LUQA  
LMML  
ILS OR LOC  
RWY 13**



Change: renamed ATIS to ARR ATIS

NM TO / FROM THR RWY 13						LQ DME READS ZERO AT THR RWY 13								
OCA (OCH)	A	B	C	D	D <sub>L</sub>	DIST to LQ DME		2.0	3.0	4.0	5.0	6.0	7.0	8.0
						DIST to THR RWY 13		2.0	3.0	4.0	5.0	6.0	7.0	8.0
CAT I	403 (148)	415 (160)	428 (173)	443 (188)	446 (191)	ALT (HGT)		945 (690)	1264 (1009)	1582 (1327)	1901 (1646)	2219 (1964)	2538 (2283)	2856 (2601)
LOC	650 (395)				-	LOC: TIMING NOT AUTHORIZED FOR DEFINING MAPt.								
CIRCLING	NOT AUTHORIZED					GS		KT	70	90	100	120	140	160
						FAF - MAPt (8.46 NM)		MIN:SEC	7:15	5:38	5:05	4:14	3:38	3:10
						RATE OF DESCENT (5.2%)		FT / MIN	372	478	531	637	743	849

MALTA/LUQA  
LMML  
ILS OR LOC  
RWY 13

INSTRUMENT  
APPROACH  
CHART - ICAO

AERONAUTICAL DATA TABULATION

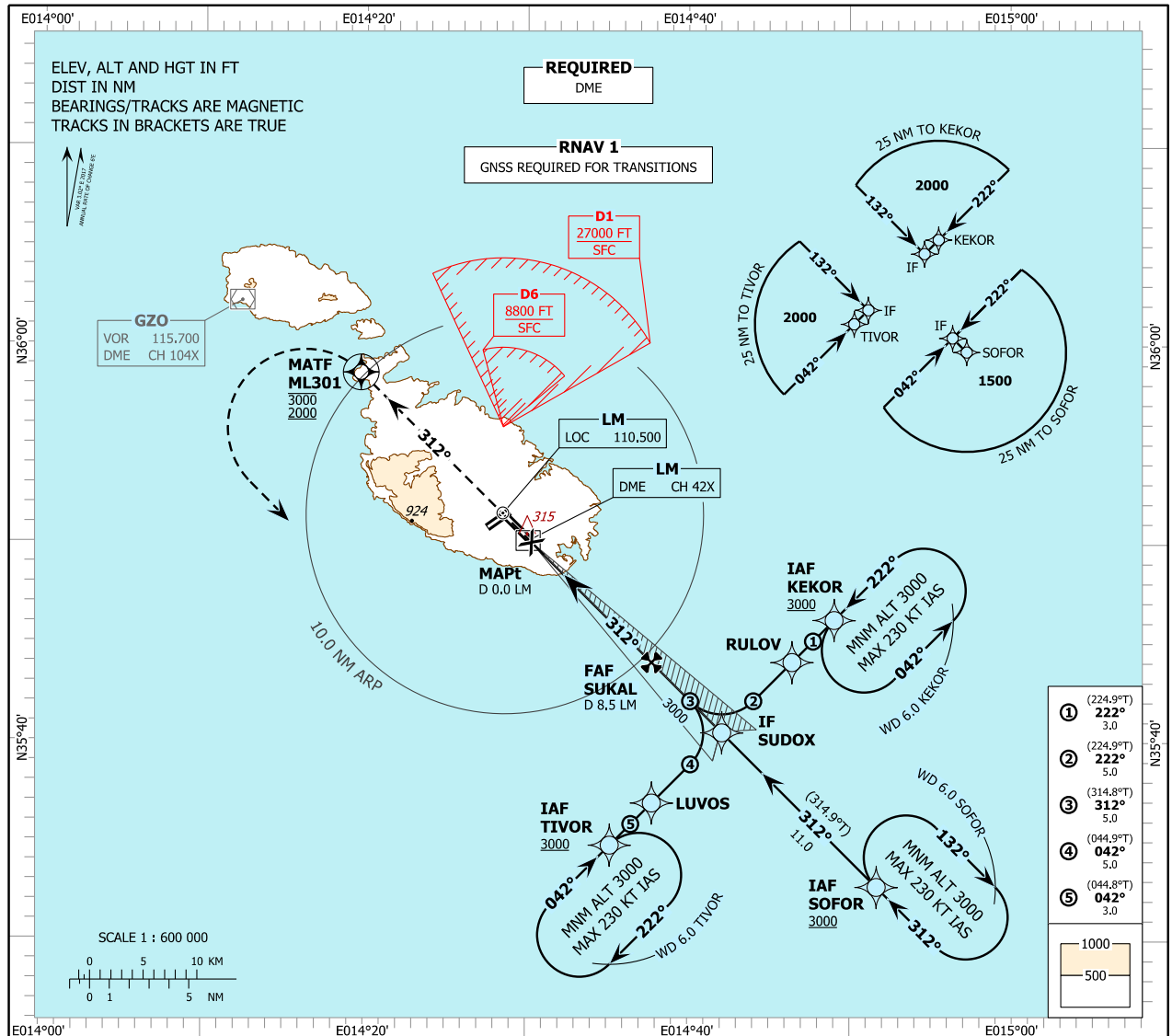
FIX/POINT	COORDINATES
GUDER	36°06'33.9"N 014°23'52.7"E
LAKOM	36°04'25.7"N 014°21'16.5"E
LQ DME	35°51'13.3"N 014°28'49.3"E
LQ LOC	35°50'00.6"N 014°30'26.0"E
MAPt - BRG 131.71° / D 0.00 LQ	35°51'23.1"N 014°28'43.8"E
ML101	35°42'56.3"N 014°39'10.3"E
NEBEN - BRG 131.63° / D 8.45 LQ	35°57'20.8"N 014°21'19.6"E
NEDOX	36°00'51.9"N 014°16'56.6"E
NOLER	36°08'35.8"N 014°07'16.6"E
OMBER	35°55'09.6"N 014°10'01.4"E
RANAT	35°57'18.0"N 014°12'37.0"E
SDF - BRG 131.69° / D 2.40 LQ	35°53'05.1"N 014°26'37.3"E
THR RWY 13	35°51'23.13"N 014°28'43.76"E

**INSTRUMENT  
APPROACH  
CHART - ICAO**

AD ELEV 297  
OCH RELATED TO  
THR RWY 31 ELEV 231

GND	Luqa GND	121.600
TWR	Luqa TWR	135.100
APP	Luqa Radar	128.150
ARR ATIS	Luqa Information	127.400

**MALTA/LUQA  
LMML  
ILS OR LOC  
RWY 31**



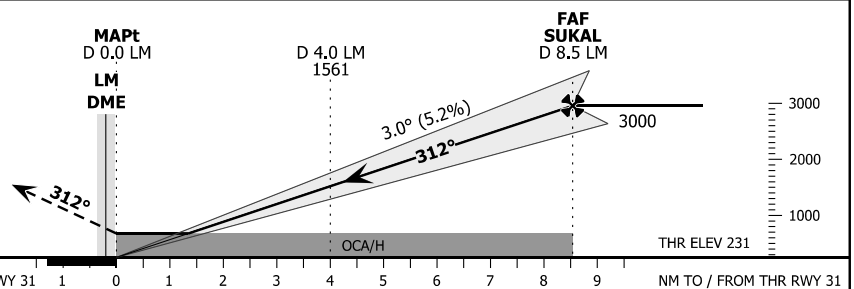
**TRANSITION ALT 5000**

**MISSED APPROACH**

CLIMB ON TRACK 312° TO 3000.  
CONTINUE AS DIRECTED BY ATC.

**COM FAILURE**

CLIMB ON TRACK 312° TO ML301  
CLIMBING 3000;  
LT, DIRECT TO TIVOR.



OCA (OCH)	A	B	C	D	D <sub>L</sub>
CAT I	386 (155)	396 (165)	407 (176)	420 (189)	428 (197)
LOC	650 (419)				-
CIRCLING	NOT AUTHORIZED				

DIST to LM DME	2.0	3.0	4.0	5.0	6.0	7.0	8.0
DIST to THR RWY 31	2.0	3.0	4.0	5.0	6.0	7.0	8.0
ALT (HGT)	924 (693)	1242 (1011)	1561 (1330)	1879 (1648)	2197 (1966)	2516 (2285)	2834 (2603)
LOC: TIMING NOT AUTHORIZED FOR DEFINING MAPt.							
GS	KT	70	90	100	120	140	160
FAF - MAPt (8.54 NM)	MIN:SEC	7:19	5:42	5:07	4:16	3:40	3:12
RATE OF DESCENT (5.2%)	FT / MIN	372	478	531	637	743	849

Change: renamed ATIS to ARR ATIS

MALTA/LUQA  
LMML  
ILS OR LOC  
RWY 31

INSTRUMENT  
APPROACH  
CHART - ICAO

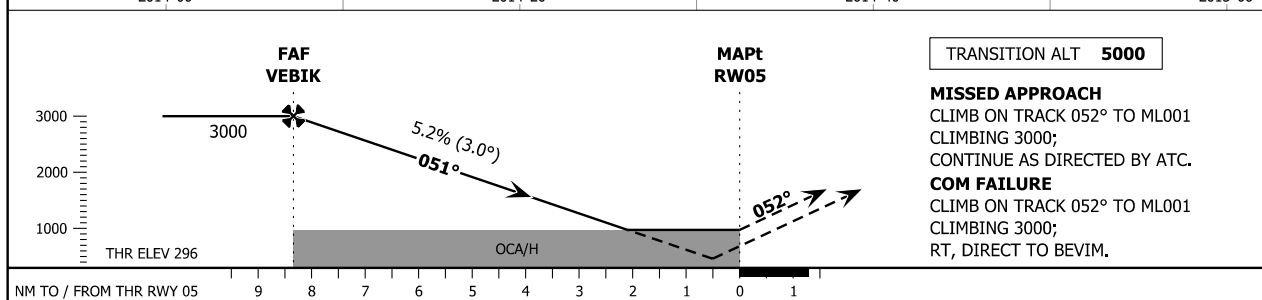
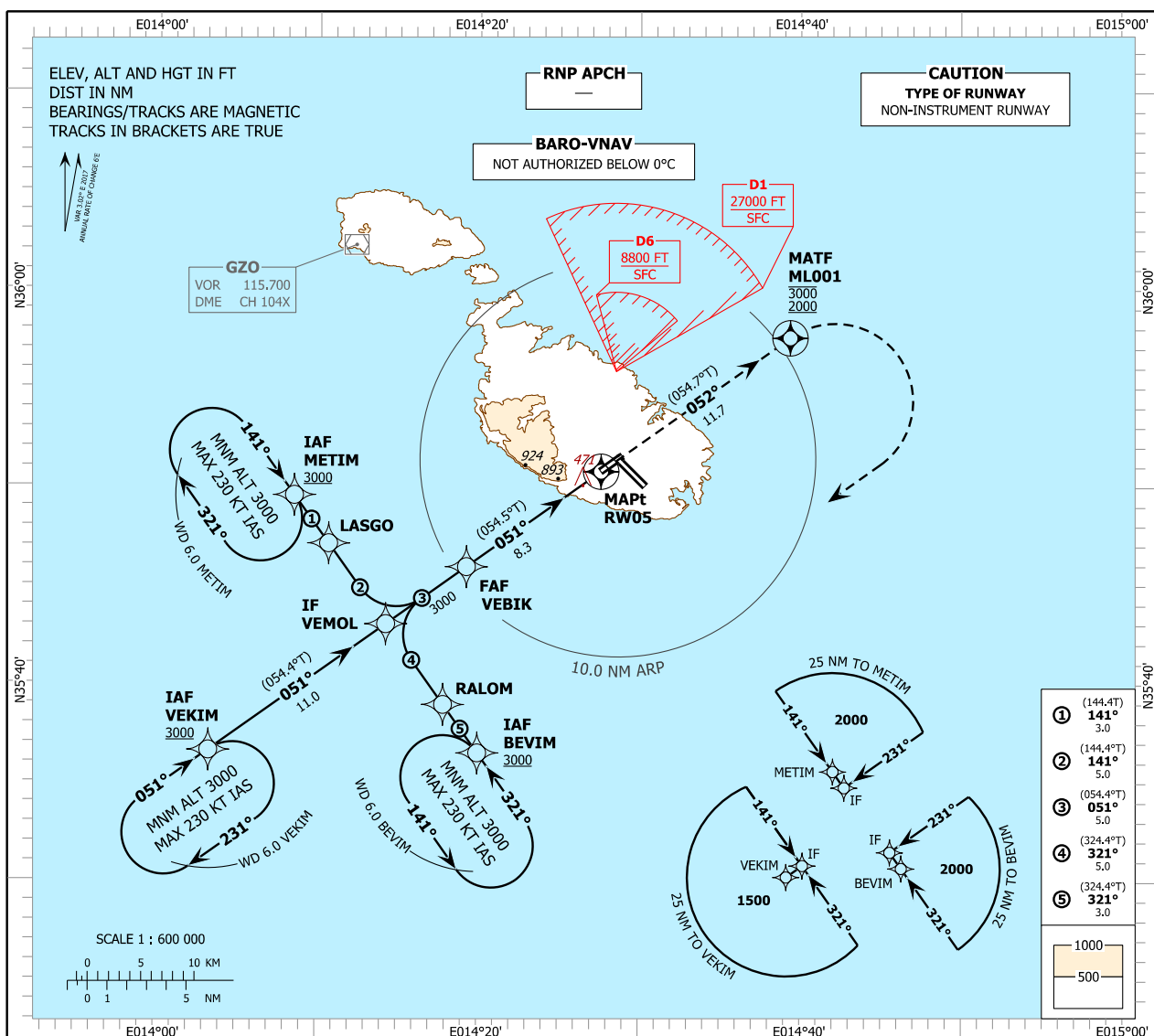
AERONAUTICAL DATA TABULATION

FIX/POINT	COORDINATES	
KEKOR	35°46'13.6"N	014°49'02.9"E
LM DME	38°35'09.7"N	014°30'05.3"E
LM LOC	35°51'33.8"N	014°28'30.6"E
LUVOS	35°37'00.1"N	014°37'47.2"E
MAPt - BRG 311.72° / D 0.00 LM	35°50'06.5"N	014°30'18.7"E
ML301	35°58'39.4"N	014°19'41.8"E
RULOV	35°44'06.0"N	014°46'26.8"E
SOFOR	35°32'46.4"N	014°51'40.0"E
SUDOX	35°40'33.1"N	014°42'06.8"E
SUKAL - BRG 311.79° / D 8.52 LM	35°44'05.0"N	014°37'45.6"E
THR RWY 31	35°50'06.50"N	014°30'18.71"E
TIVOR	35°34'52.2"N	014°35'11.6"E

AD ELEV 297  
OCH RELATED TO  
THR RWY 05 ELEV 296

GND	Luqa GND	121.600
TWR	Luqa TWR	135.100
APP	Luqa Radar	128.150
ARR ATIS	Luqa Information	127.400

**MALTA/LUQA**  
**LMM L**  
**RNP RWY 05**  
EGNOS CH 42196 E05A



OCA (OCH)	A	B	C	D
LPV	796 (500)			
LNAV/VNAV	900 (604)	901 (605)	902 (606)	902 (606)
LNAV	910 (614)			
CIRCLING	NOT AUTHORIZED			

DIST to MAPt / THR RWY 05	2.0	3.0	4.0	5.0	6.0	7.0	8.0
ALT (HGT)	983 (728)	1301 (1046)	1619 (1364)	1938 (1683)	2256 (2001)	2575 (2320)	2893 (2638)

LNAV: TIMING NOT AUTHORIZED FOR DEFINING MAPt.

GS	KT	70	90	100	120	140	160
FAF - MAPt (8.34 NM)	MIN:SEC	7:09	5:33	5:00	4:10	3:34	3:08
RATE OF DESCENT (5.2%)	FT / MIN	372	478	531	637	743	849

Change: renamed ATIS to ARR ATIS

MALTA/LUQA  
LMML  
RNP RWY 05  
EGNOS CH 42196 E05AINSTRUMENT  
APPROACH  
CHART - ICAO

## AERONAUTICAL DATA TABULATION

SERIAL NUMBER	PATH DESCRIPTOR	WAYPOINT IDENTIFIER	FLY-OVER	COURSE °M (°T)	DIST (NM)	TURN DIRECTION	ALTITUDE (FT)	SPEED (KT)	VPA/ TCH	NAVIGATION SPECIFICATION
010	IF	METIM	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	LASGO	-	141 (144.4)	3.0	-	A3000+	-	-	RNP APCH
030	TF	VEMOL	-	141 (144.4)	5.0	-	A3000+	-	-	RNP APCH
010	IF	BEVIM	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	RALOM	-	321 (324.4)	3.0	-	A3000+	-	-	RNP APCH
030	TF	VEMOL	-	321 (324.4)	5.0	-	A3000+	-	-	RNP APCH
010	IF	VEKIM	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	VEMOL	-	051 (054.4)	11.0	-	A3000+	-	-	RNP APCH
010	IF	VEMOL	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	VEBIK	-	051 (054.4)	5.0	-	A3000+	-	-	RNP APCH
030	TF	RW05	Y	051 (054.5)	8.3	-	-	-	-3.0/15	RNP APCH
040	CF	ML001	Y	052 (054.7)	11.7	-	A2000+/A3000-	-	-	RNP APCH
050	DF	BEVIM	-	-	-	R	A3000	-	-	RNP APCH
060	HM	BEVIM	-	321 (324.5)	-	L	A3000+	K230-	-	RNAV 1

NOTE: RECOMMENDED RNAV PROCEDURE CODING IS PROVIDED SOLELY TO INDICATE WHICH PROCEDURE DESIGN PROTECTION AREAS WERE USED IN THE INSTRUMENT FLIGHT PROCEDURE DESIGN PROCESS.

## WAYPOINT LIST

WAYPOINT IDENTIFIER	COORDINATES
BEVIM	35°36'34.2"N 014°19'58.9"E
LASGO	35°47'09.4"N 014°10'41.5"E
METIM	35°49'35.9"N 014°08'32.5"E
ML001	35°57'38.6"N 014°39'20.9"E
RALOM	35°39'00.8"N 014°17'50.5"E
RW05	35°50'50.94"N 014°27'36.35"E
VEBIK	35°46'00.0"N 014°19'15.9"E
VEKIM	35°36'39.8"N 014°03'18.1"E
VEMOL	35°43'05.2"N 014°14'16.2"E

## FAS DATA BLOCK

OPERATION TYPE	0	LTP/FTP ELLIPSOIDAL HEIGHT	127.2
SBAS PROVIDER	1	FPAP LATITUDE	355135.6760N
AIRPORT IDENTIFIER	LMML	FPAP LONGITUDE	0142853.4735E
RUNWAY	RW05	THRESHOLD CROSSING HEIGHT	50
APPROACH PERFORMANCE DESIGNATOR	0	TCH UNITS	F
ROUTE INDICATOR		GLIDE PATH ANGLE	03.00
REFERENCE PATH DATA SELECTOR	0	COURSE WIDTH AT THRESHOLD	105
REFERENCE PATH IDENTIFIER	E05A	LENGTH OFFSET	8
LTP/FTP LATITUDE	355050.9385N	HORIZONTAL ALERT LIMIT (HAL)	40
LTP/FTP LONGITUDE	0142736.3455E	VERTICAL ALERT LIMIT (VAL)	50
PRECISION APPROACH PATH POINT DATA CRC REMAINDER		56802D5C	

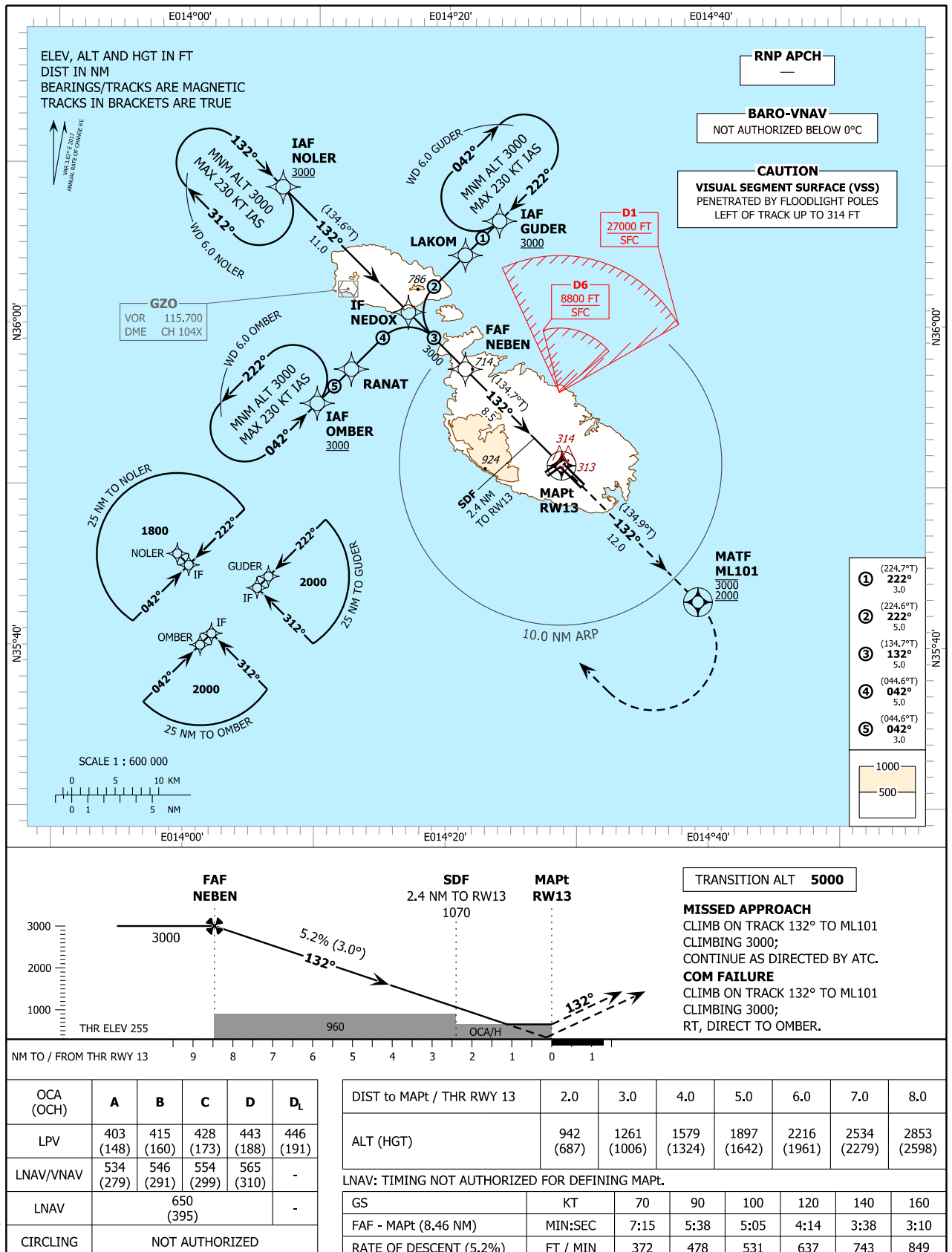
## NON FAS DATA BLOCK FIELDS

LTP ORTOMETRIC HEIGHT	90.1
FPAP ORTOMETRIC HEIGHT	74.8

Changes: changed route indicator from Z to blank

INSTRUMENT  
APPROACH  
CHART - ICAOAD ELEV 297  
OCH RELATED TO  
THR RWY 13 ELEV 255

GND	Luqa GND	121.600
TWR	Luqa TWR	135.100
APP	Luqa Radar	128.150
ARR ATIS	Luqa Information	127.400

MALTA/LUQA  
LMML  
RNP RWY 13  
EGNOS CH 52330 E13A

Change: renamed ATIS to ARR ATIS

MALTA/LUQA  
LMML  
RNP RWY 13  
EGNOS CH 52330 E13AINSTRUMENT  
APPROACH  
CHART - ICAO

## AERONAUTICAL DATA TABULATION

SERIAL NUMBER	PATH DESCRIPTOR	WAYPOINT IDENTIFIER	FLY-OVER	COURSE °M (°T)	DIST (NM)	TURN DIRECTION	ALTITUDE (FT)	SPEED (KT)	VPA/ TCH	NAVIGATION SPECIFICATION
010	IF	OMBER	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	RANAT	-	042 (044.6)	3.0	-	A3000+	-	-	RNP APCH
030	TF	NEDOX	-	042 (044.6)	5.0	-	A3000+	-	-	RNP APCH
010	IF	GUDER	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	LAKOM	-	222 (224.7)	3.0	-	A3000+	-	-	RNP APCH
030	TF	NEDOX	-	222 (224.6)	5.0	-	A3000+	-	-	RNP APCH
010	IF	NOLER	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	NEDOX	-	132 (134.6)	11.0	-	A3000+	-	-	RNP APCH
010	IF	NEDOX	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	NEBEN	-	132 (134.7)	5.0	-	A3000+	-	-	RNP APCH
030	TF	RW13	Y	132 (134.7)	8.5	-	-	-	-3.0/15	RNP APCH
040	CF	ML101	Y	132 (134.9)	12.0	-	A2000+/A3000-	-	-	RNP APCH
050	DF	OMBER	-	-	-	R	A3000	-	-	RNP APCH
060	HM	OMBER	-	042 (44.6)	-	L	A3000+	K230-	-	RNAV 1

NOTE: RECOMMENDED RNAV PROCEDURE CODING IS PROVIDED SOLELY TO INDICATE WHICH PROCEDURE DESIGN PROTECTION AREAS WERE USED IN THE INSTRUMENT FLIGHT PROCEDURE DESIGN PROCESS.

## WAYPOINT LIST

WAYPOINT IDENTIFIER	COORDINATES
GUDER	36°06'33.9"N 014°23'52.7"E
LAKOM	36°04'25.7"N 014°21'16.5"E
ML101	35°42'56.3"N 014°39'10.3"E
NEBEN	35°57'20.8"N 014°21'19.6"E
NEDOX	36°00'51.9"N 014°16'56.6"E
NOLER	36°08'35.8"N 014°07'16.6"E
OMBER	35°55'09.6"N 014°10'01.4"E
RANAT	35°57'18.0"N 014°12'37.0"E
RW13	35°51'23.13"N 014°28'43.76"E

## FAS DATA BLOCK

OPERATION TYPE	0	LTP/FTP ELLIPSOIDAL HEIGHT	115.0
SBAS PROVIDER	1	FPAP LATITUDE	355002.2380N
AIRPORT IDENTIFIER	LMML	FPAP LONGITUDE	0143023.9910E
RUNWAY	RW13	THRESHOLD CROSSING HEIGHT	50
APPROACH PERFORMANCE DESIGNATOR	0	TCH UNITS	F
ROUTE INDICATOR		GLIDE PATH ANGLE	03.00
REFERENCE PATH DATA SELECTOR	0	COURSE WIDTH AT THRESHOLD	105
REFERENCE PATH IDENTIFIER	E13A	LENGTH OFFSET	8
LTP/FTP LATITUDE	355123.1325N	HORIZONTAL ALERT LIMIT (HAL)	40.0
LTP/FTP LONGITUDE	0142843.7570E	VERTICAL ALERT LIMIT (VAL)	35.0
PRECISION APPROACH PATH POINT DATA CRC REMAINDER		55801ADD	

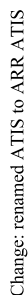
## NON FAS DATA BLOCK FIELDS

LTP ORTOMETRIC HEIGHT	77.8
FPAP ORTOMETRIC HEIGHT	70.1

Changes: changed route indicator from Z to blank, approach performance designator and CRC remainder



**MALTA/LUQA**  
**LMML**  
**RNP RWY 23**  
EGNOS CH 64238 E23A



**AIRAC AMDT 034/2020**

MALTA/LUQA  
LMML  
RNP RWY 23  
EGNOS CH 64238 E23AINSTRUMENT  
APPROACH  
CHART - ICAO

## AERONAUTICAL DATA TABULATION

SERIAL NUMBER	PATH DESCRIPTOR	WAYPOINT IDENTIFIER	FLY-OVER	COURSE °M (°T)	DIST (NM)	TURN DIRECTION	ALTITUDE (FT)	SPEED (KT)	VPA/ TCH	NAVIGATION SPECIFICATION
010	IF	MONAM	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	REVPO	-	142 (144.6)	3.0	-	A3000+	-	-	RNP APCH
030	TF	EVOTA	-	142 (144.7)	5.0	-	A3000+	-	-	RNP APCH
010	IF	INTAM	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	LAPID	-	322 (324.7)	3.0	-	A3000+	-	-	RNP APCH
030	TF	EVOTA	-	322 (324.7)	5.0	-	A3000+	-	-	RNP APCH
010	IF	EVLAM	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	EVOTA	-	232 (234.7)	11.0	-	A3000+	-	-	RNP APCH
010	IF	EVOTA	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	EVPAT	-	232 (234.6)	5.0	-	A3000+	-	-	RNP APCH
030	TF	RW23	Y	232 (234.5)	8.5	-	-	-	-3.0/15	RNP APCH
040	CF	ML201	Y	231 (234.4)	12.0	-	A2000+/A3000-	-	-	RNP APCH
050	DF	INTAM	-	-	-	L	A3000	-	-	RNP APCH
060	HM	INTAM	-	322 (324.7)	-	R	A3000+	K230-	-	RNAV 1

NOTE: RECOMMENDED RNAV PROCEDURE CODING IS PROVIDED SOLELY TO INDICATE WHICH PROCEDURE DESIGN PROTECTION AREAS WERE USED IN THE INSTRUMENT FLIGHT PROCEDURE DESIGN PROCESS.

## WAYPOINT LIST

WAYPOINT IDENTIFIER	COORDINATES
EVLAM	36°05'47.0"N 014°53'30.4"E
EVOTA	35°59'25.3"N 014°42'26.0"E
EVPAT	35°56'31.5"N 014°37'24.6"E
INTAM	35°52'53.0"N 014°48'07.6"E
LAPID	35°55'20.2"E 014°45'59.6"E
ML201	35°44'35.4"N 014°16'50.8"E
MONAM	36°05'57.3"N 014°36'43.5"E
REVPO	36°03'30.4"N 014°38'52.1"E
RW23	35°51'35.68"N 014°28'53.47"E

## FAS DATA BLOCK

OPERATION TYPE	0	LTP/FTP ELLIPSOIDAL HEIGHT	111.9
SBAS PROVIDER	1	FPAP LATITUDE	355050.9385N
AIRPORT IDENTIFIER	LMML	FPAP LONGITUDE	0142736.3455E
RUNWAY	RW23	THRESHOLD CROSSING HEIGHT	50
APPROACH PERFORMANCE DESIGNATOR	0	TCH UNITS	F
ROUTE INDICATOR		GLIDE PATH ANGLE	03.00
REFERENCE PATH DATA SELECTOR	0	COURSE WIDTH AT THRESHOLD	105
REFERENCE PATH IDENTIFIER	E23A	LENGTH OFFSET	8
LTP/FTP LATITUDE	355135.6760N	HORIZONTAL ALERT LIMIT (HAL)	40.0
LTP/FTP LONGITUDE	0142853.4735E	VERTICAL ALERT LIMIT (VAL)	50.0
PRECISION APPROACH PATH POINT DATA CRC REMAINDER		F0E3478D	

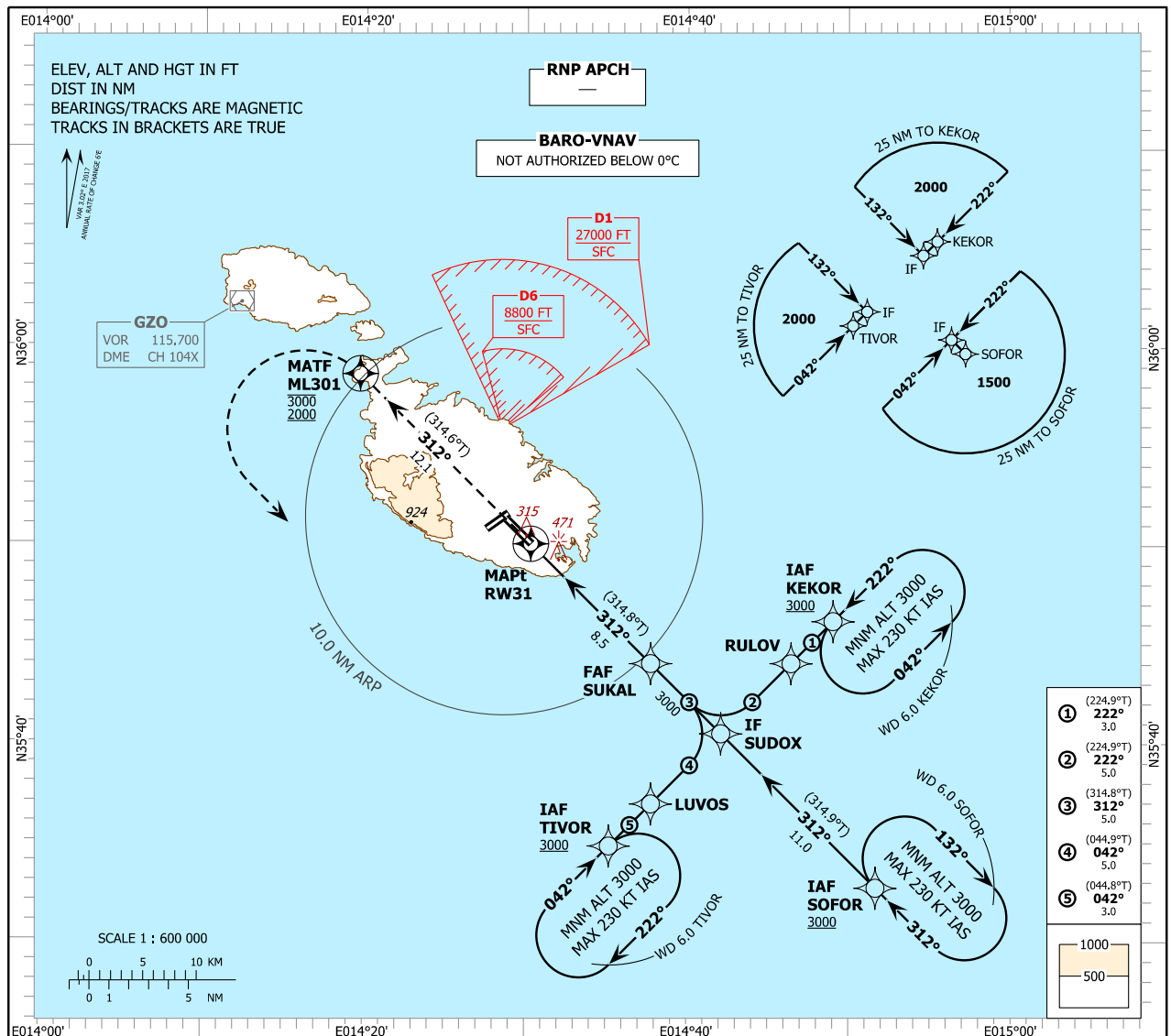
## NON FAS DATA BLOCK FIELDS

LTP ORTOMETRIC HEIGHT	74.8
FPAP ORTOMETRIC HEIGHT	90.1

Changes: changed route indicator from Z to blank

INSTRUMENT  
APPROACH  
CHART - ICAOAD ELEV 297  
OCH RELATED TO  
THR RWY 31 ELEV 231

GND	Luqa GND	121.600
TWR	Luqa TWR	135.100
APP	Luqa Radar	128.150
ARR ATIS	Luqa Information	127.400

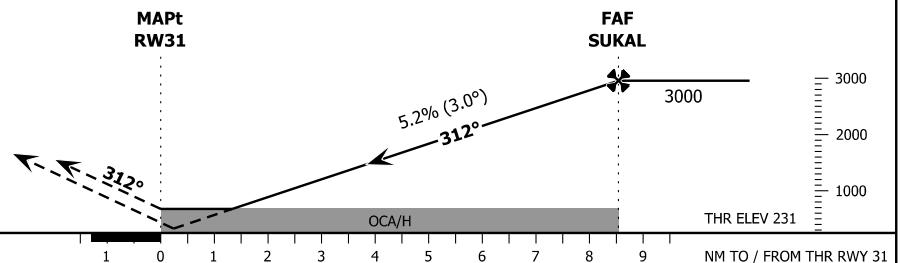
MALTA/LUQA  
LMML  
RNP RWY 31  
EGNOS CH 87897 E31A

TRANSITION ALT 5000

## MISSED APPROACH

CLIMB ON TRACK 312° TO ML301  
CLIMBING 3000;  
CONTINUE AS DIRECTED BY ATC.

## COM FAILURE

CLIMB ON TRACK 312° TO ML301  
CLIMBING 3000;  
LT, DIRECT TO TIVOR.

Change: renamed ATIS to ARR ATIS

OCA (OCH)	A	B	C	D	D <sub>L</sub>
LPV	386 (155)	396 (165)	407 (176)	420 (189)	428 (197)
LNAV/VNAV	601 (370)	614 (383)	622 (391)	632 (401)	-
LNAV	720 (489)				-
CIRCLING	NOT AUTHORIZED				

DIST to MAPt / THR RWY 31	2.0	3.0	4.0	5.0	6.0	7.0	8.0
ALT (HGT)	918 (687)	1236 (1005)	1554 (1323)	1873 (1642)	2191 (1960)	2510 (2279)	2828 (2597)
LNAV: TIMING NOT AUTHORIZED FOR DEFINING MAPt.							
GS	KT	70	90	100	120	140	160
FAF - MAPt (8.54 NM)	MIN:SEC	7:19	5:42	5:07	4:16	3:40	3:12
RATE OF DESCENT (5.2%)	FT / MIN	372	478	531	637	743	849

MALTA/LUQA  
LMML  
RNP RWY 31  
EGNOS CH 87897 E31A

INSTRUMENT  
APPROACH  
CHART - ICAO

AERONAUTICAL DATA TABULATION

SERIAL NUMBER	PATH DESCRIPTOR	WAYPOINT IDENTIFIER	FLY-OVER	COURSE °M (°T)	DIST (NM)	TURN DIRECTION	ALTITUDE (FT)	SPEED (KT)	VPA/ TCH	NAVIGATION SPECIFICATION
010	IF	KEKOR	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	RULOV	-	222 (224.9)	3.0	-	A3000+	-	-	RNP APCH
030	TF	SUDOX	-	222 (224.9)	5.0	-	A3000+	-	-	RNP APCH
010	IF	TIVOR	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	LUVOS	-	042 (044.8)	3.0	-	A3000+	-	-	RNP APCH
030	TF	SUDOX	-	042 (044.9)	5.0	-	A3000+	-	-	RNP APCH
010	IF	SOFOR	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	SUDOX	-	312 (314.9)	11.0	-	A3000+	-	-	RNP APCH
010	IF	SUDOX	-	-	-	-	A3000+	-	-	RNP APCH
020	TF	SUKAL	-	312 (314.8)	5.0	-	A3000+	-	-	RNP APCH
030	TF	RW31	Y	312 (314.8)	8.5	-	-	-	-3.0/15	RNP APCH
040	CF	ML301	Y	312 (314.6)	12.1	-	A2000+/A3000-	-	-	RNP APCH
050	DF	TIVOR	-	-	-	L	A3000	-	-	RNP APCH
060	HM	TIVOR	-	042 (044.8)	-	R	A3000+	K230-	-	RNAV 1

NOTE: RECOMMENDED RNAV PROCEDURE CODING IS PROVIDED SOLELY TO INDICATE WHICH PROCEDURE DESIGN PROTECTION AREAS WERE USED IN THE INSTRUMENT FLIGHT PROCEDURE DESIGN PROCESS.

WAYPOINT LIST

WAYPOINT IDENTIFIER	COORDINATES
KEKOR	35°46'13.6"N 014°49'02.9"E
LUVOS	35°37'00.1"N 014°37'47.2"E
ML301	35°58'39.4"N 014°19'41.8"E
RULOV	35°44'06.0"N 014°46'26.8"E
RW31	35°50'06.50"N 014°30'18.71"E
SOFOR	35°32'46.4"N 014°51'40.0"E
SUDOX	35°40'33.1"N 014°42'06.8"E
SUKAL	35°44'05.0"N 014°37'45.6"E
TIVOR	35°34'52.2"N 014°35'11.6"E

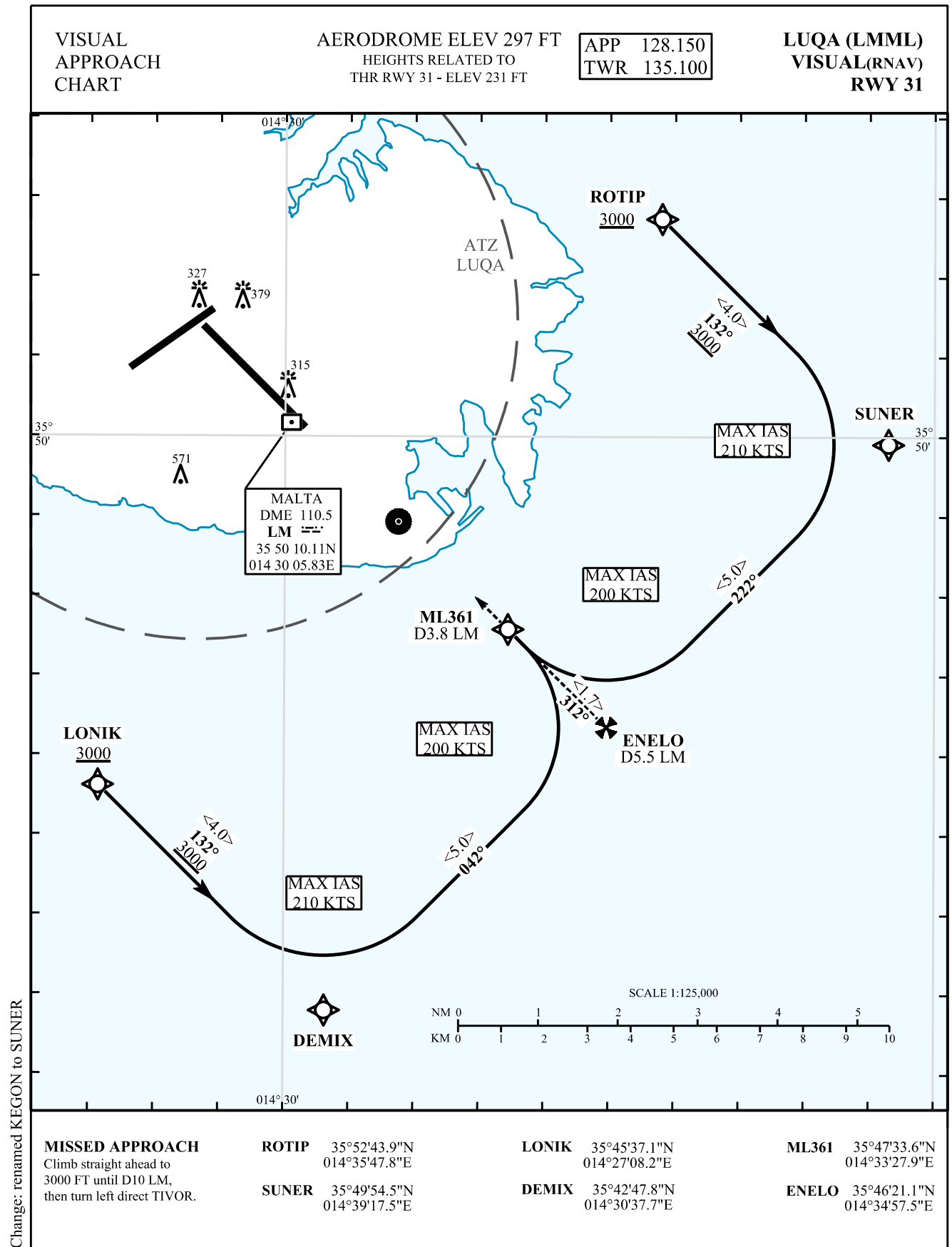
FAS DATA BLOCK

OPERATION TYPE	0	LTP/FTP ELLIPSOIDAL HEIGHT	107.4
SBAS PROVIDER	1	FPAP LATITUDE	355126.8225N
AIRPORT IDENTIFIER	LMML	FPAP LONGITUDE	0142839.1825E
RUNWAY	RW31	THRESHOLD CROSSING HEIGHT	50
APPROACH PERFORMANCE DESIGNATOR	0	TCH UNITS	F
ROUTE INDICATOR		GLIDE PATH ANGLE	03.00
REFERENCE PATH DATA SELECTOR	0	COURSE WIDTH AT THRESHOLD	105
REFERENCE PATH IDENTIFIER	E31A	LENGTH OFFSET	168
LTP/FTP LATITUDE	355006.5005N	HORIZONTAL ALERT LIMIT (HAL)	40.0
LTP/FTP LONGITUDE	0143018.7110E	VERTICAL ALERT LIMIT (VAL)	35.0
PRECISION APPROACH PATH POINT DATA CRC REMAINDER		E570D360	

NON FAS DATA BLOCK FIELDS

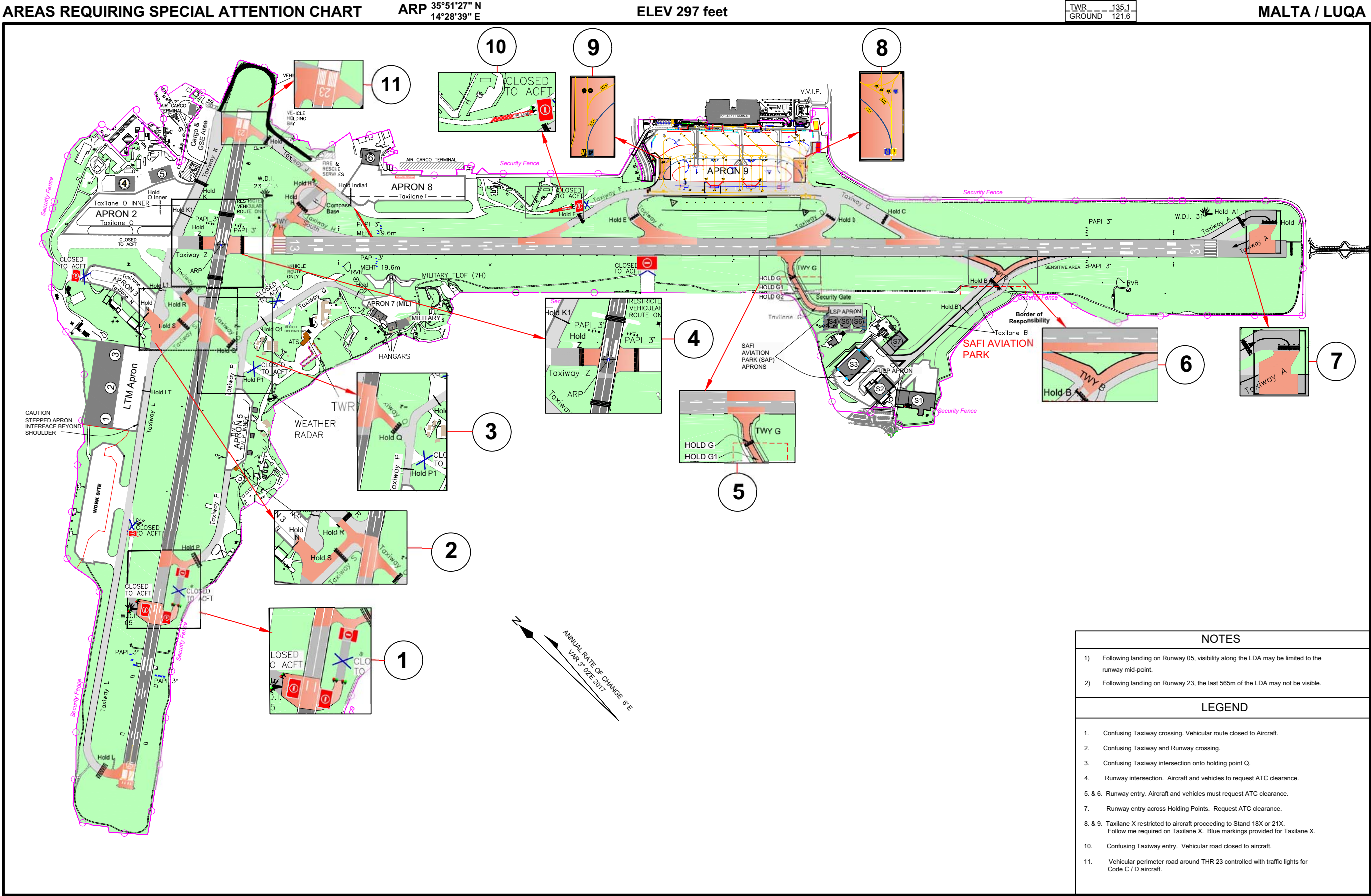
LTP ORTOMETRIC HEIGHT	70.3
FPAP ORTOMETRIC HEIGHT	77.0

Changes: changed route indicator from Z to blank, approach performance designator and CRC remainder



### Visual Approach Notes

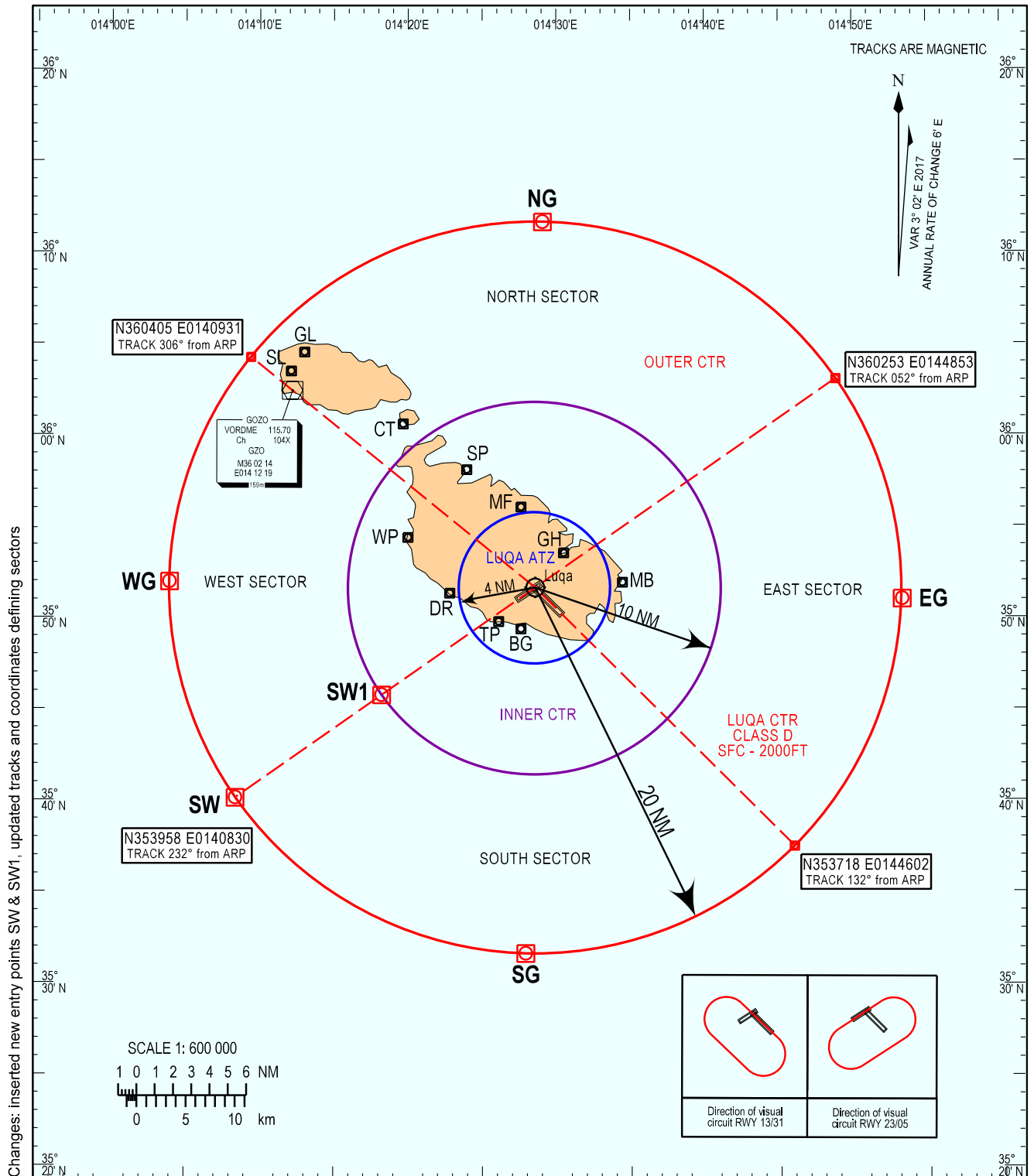
1. ROTIP / LONIK visual approaches will only be authorized by ATC following a pilot request and subject to traffic. ATC phraseology will be CLEARED ROTIP / LONIK VISUAL APPROACH RUNWAY 31.
2. ROTIP / LONIK visual approaches are normally available for LMML arrivals entering the TMA via entry points DIRKA, EKOLA, UPLIT, MOLAM and DORAT.
3. When cleared by ATC to conduct a visual approach, pilots are required to follow the entire procedure from ROTIP – SUNER – ENELO – ML361 or LONIK – DEMIX – ENELO – ML361.
4. ROTIP / LONIK visual approaches require RNAV 5/FMS navigation capability and are designed to enable a Continuous Descent Approach. Descent below 3000 FT is only authorized after passing SUNER / DEMIX.
5. VFR aircraft activity may be present at 2000 FT or below in the vicinity of ROTIP over Marsascale Bay (MB).



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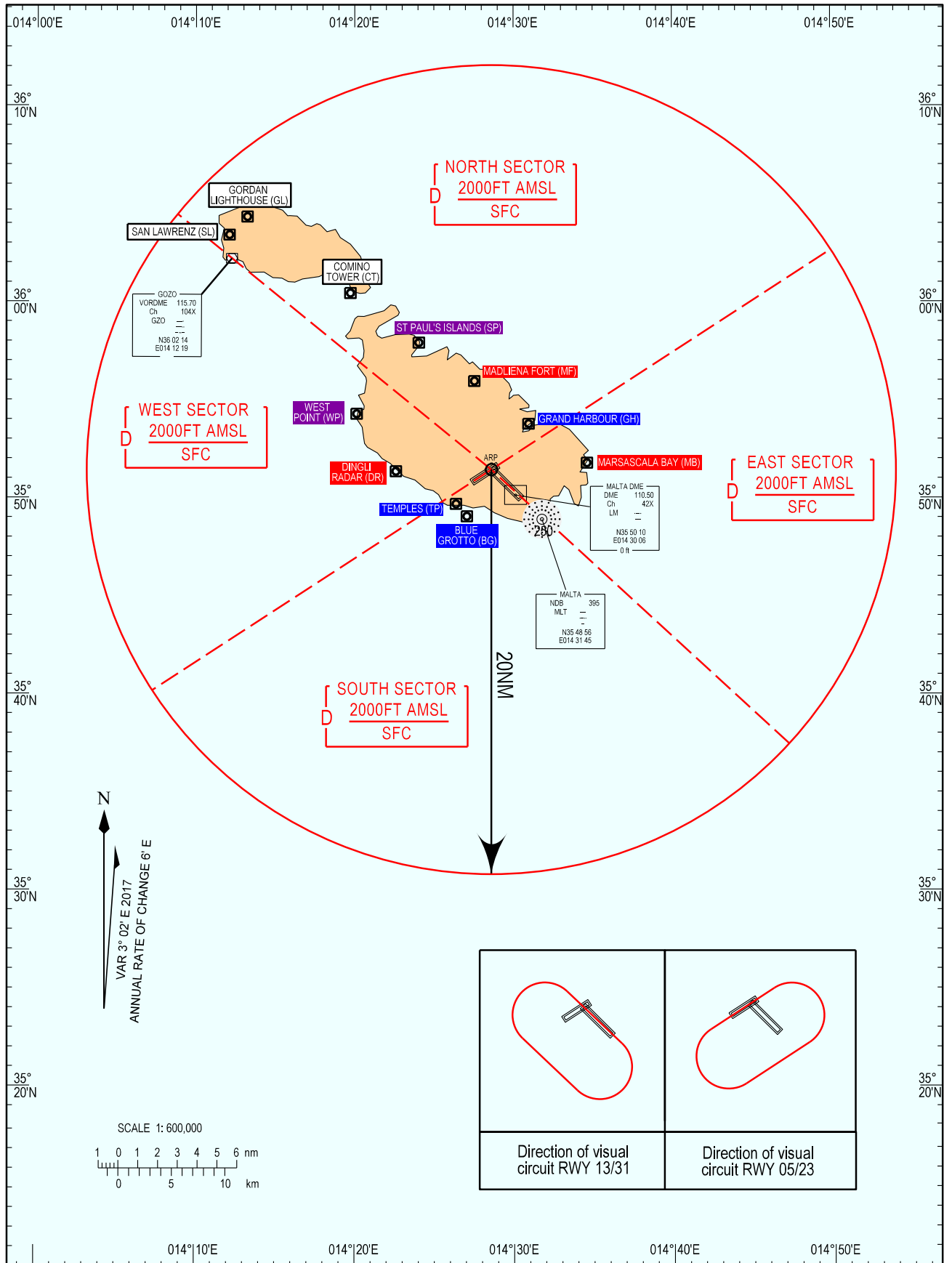


## CONTROL AREAS



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LOCAL VFR AREAS



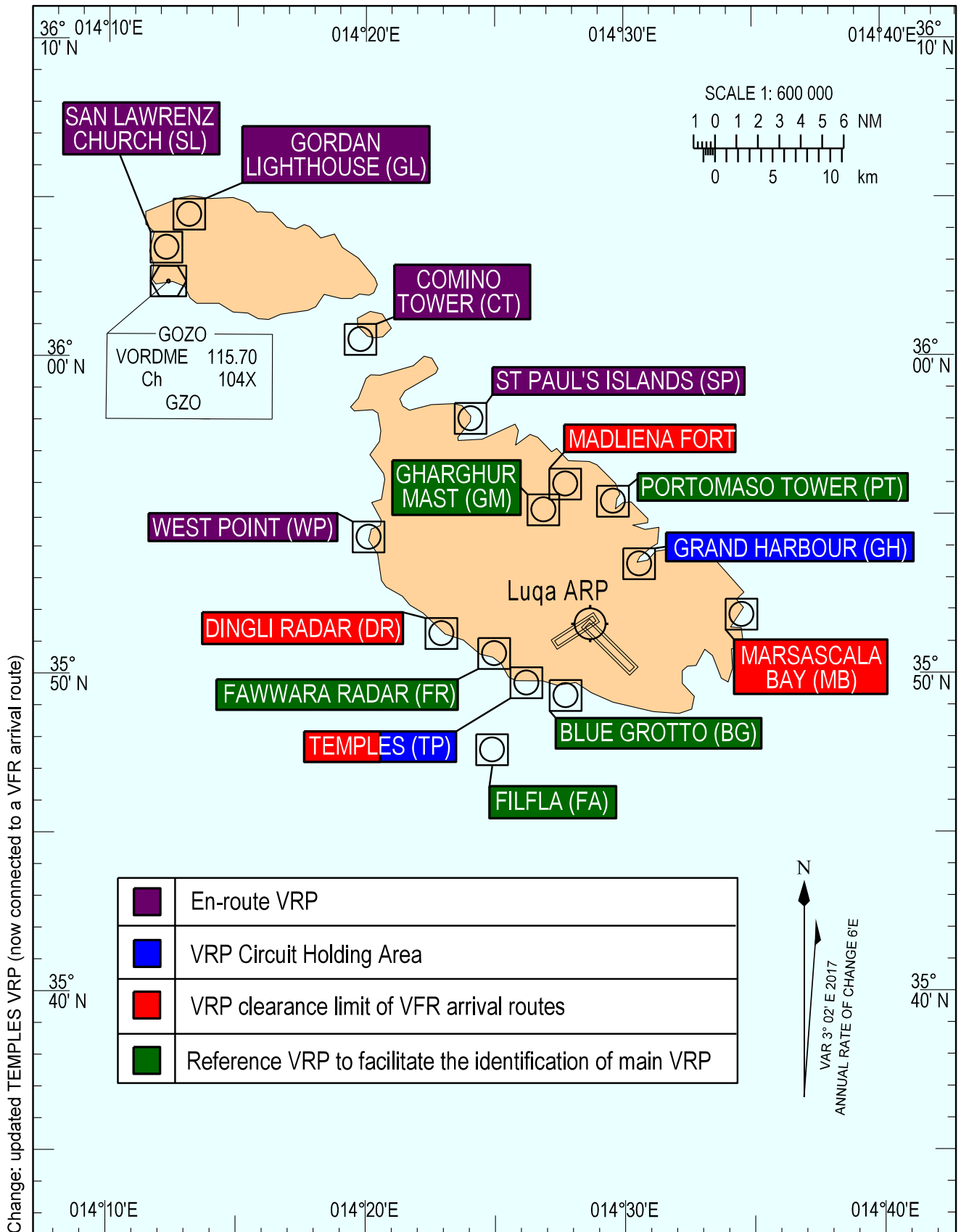
## **RCF procedures for VFR flights operating in the Luqa CTR**

In the event of RCF VFR flights operating in the Luqa CTR are expected to squawk A7600 and to operate as follows:

- If operating in the **NORTH** sector proceed to orbit over **MADLIENA FORT (MF)** and await visual signals from the aerodrome control tower.
- If operating in the **EAST** sector proceed to orbit over **EAST of LUQA** and await visual signals from the aerodrome control tower.
- If operating in the **WEST** sector proceed to orbit over **DINGLI RADAR (DR)** and await visual signals from the aerodrome control tower.
- If operating in the **SOUTH** sector proceed to orbit over **BLUE GROTTTO (BG)** and await visual signals from the aerodrome control tower.
- If operating as aerodrome traffic pilots should squawk A7600 and await visual signals from the aerodrome control tower.

Note: If able pilots should also attempt to contact the aerodrome control tower by cell phone on +356 22 35 53 33.

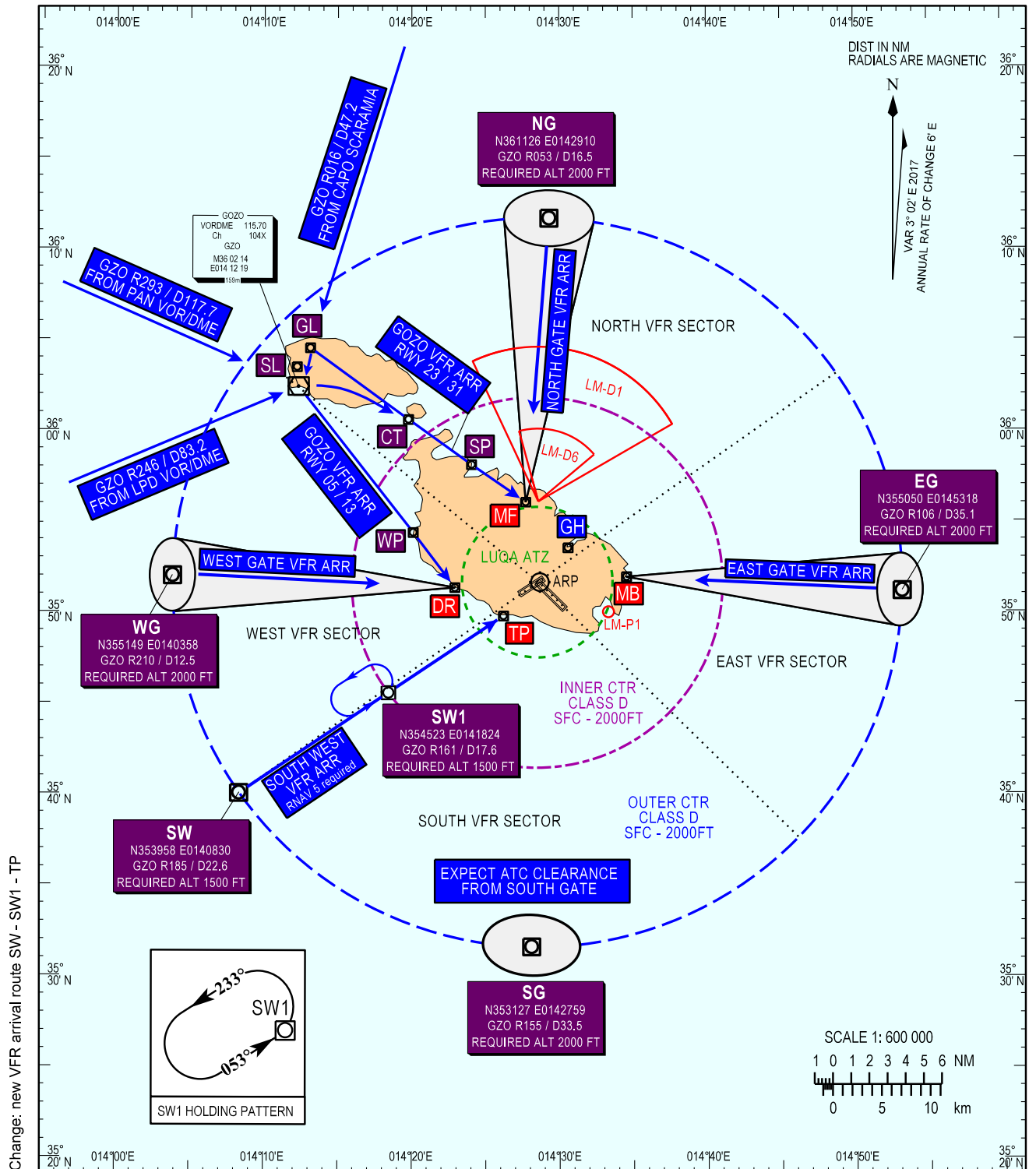
VISUAL REPORTING POINTS (VRP)



### VRP INFORMATION

<i>DESIGNATOR</i>	<i>Location</i>	<i>Coordinates</i>
1	2	3
ARP	LUQA ARP	355127N 0142839E
BG	BLUE GROTTTO	354912N 0142741E
CT	COMINO TOWER	360025N 0141946E
DR	DINGLI RADAR	355109N 0142254E
FA	FILFLA	354730N 0142451E
FR	FAWWARA RADAR	355032N 0142456E
GH	GRAND HARBOUR	355321N 0143032E
GL	GORDAN LIGHTHOUSE	360421N 0141307E
GM	GHARGHUR MAST	355503N 0142650E
GZO	GOZO VOR/DME	360214N 0141219E
MB	MARSASCALA BAY	355145N 0143430E
MF	MADLIENA FORT	355552N 0142741E
MR	MARSA RACECOURSE	355241N 0142920E
PT	PORTOMASO TOWER	355519N 0142932E
SL	SAN LAWRENZ CHURCH	360319N 0141214E
SP	ST PAUL'S ISLANDS	355755N 0142402E
TP	TEMPLES	354936N 0142611E
WP	WEST POINT	355412N 0142005E

STANDARD VFR ARRIVAL ROUTES



## STANDARD VFR ARRIVAL ROUTES INFORMATION

### Published VFR ARR routes:

**GOZO VFR ARR** RWY 05/13: GZO / GL – WP – DR

**GOZO VFR ARR** RWY 23/31: GL / GZO – CT – SP – MF

**NORTH GATE VFR ARR:** NG – MF

**WEST GATE VFR ARR:** WG – DR

**EAST GATE VFR ARR:** EG – MB

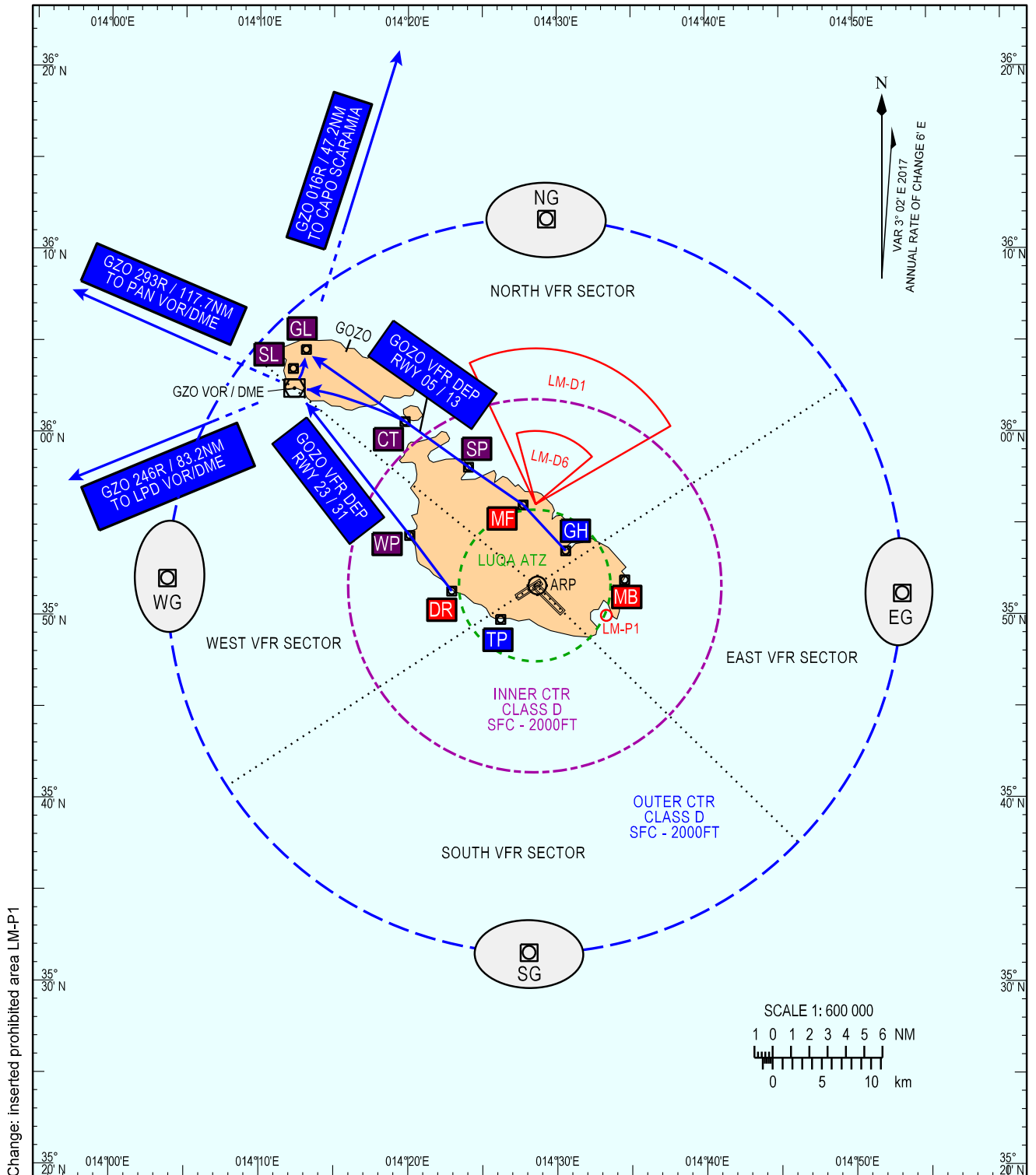
**| SOUTH WEST VFR ARR:** SW – SW1 – TP

## STANDARD VFR ARRIVAL PROCEDURES

1. It is mandatory for international VFR arrivals intending to enter the LUQA CTR to flight plan via a published VFR ARR route as indicated in the chart above. If no arrival route is inserted in the FPL aircraft will be cleared by ATC via the **GOZO VFR ARR** route depending on VFR runway-in-use.
2. Clearance by ATC to proceed via the published VFR arrival routes indicates that the clearance limit is the end of the VFR arrival route unless otherwise instructed.
3. When LM-D1 is active the NORTH GATE VFR ARR route is not available. VFR arrivals should plan to proceed via the GOZO VFR ARR route.
4. When LM-D6 is active VFR arrivals planning the NORTH GATE VFR ARR route will be re-routed by ATC to CT – SP – MF.
5. VFR pilots should exercise caution when LM-D1 or LM-D6 are active due to the close proximity of the GOZO VFR ARR RWY 23 / 31 with these danger areas.
6. Pilots should plan to enter the OUTER zone at 2000 FT or below.



STANDARD VFR DEPARTURE ROUTES



## **STANDARD VFR DEPARTURE ROUTES INFORMATION**

### **Published VFR DEP routes**

**GOZO VFR DEP** RWY 05/13: GH-MF-SP-CT-GL / GZO

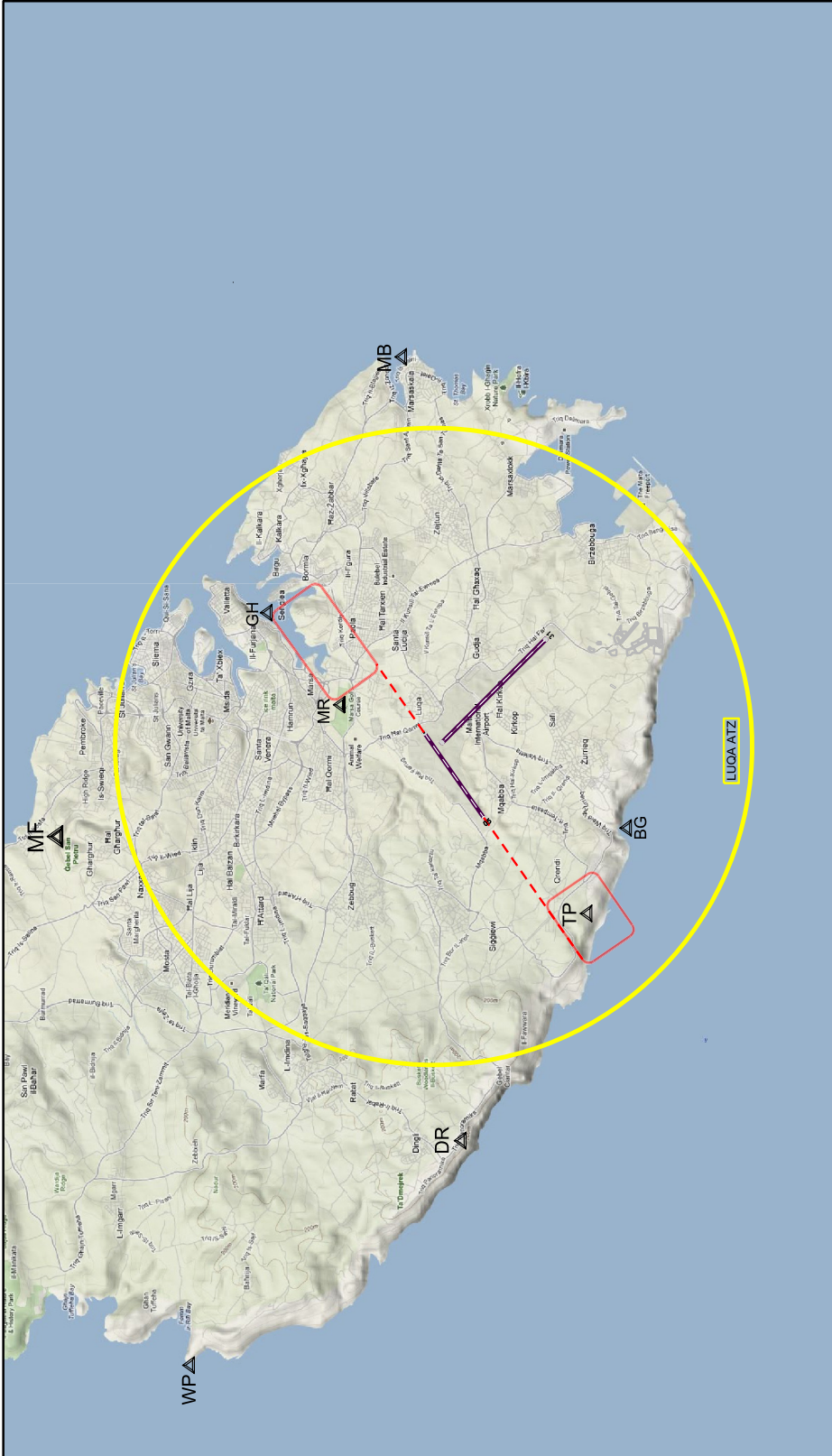
**GOZO VFR DEP** RWY 23/31: DR-WP-GZO / GL

## **STANDARD VFR DEPARTURE PROCEDURES**

1. The GOZO VFR DEP route will be assigned by ATC for all international VFR departures.
2. VFR departures intending to leave the Luqa CTR from the NORTH / SOUTH / WEST / EAST gates should insert the requested exit gate in field 15 of the FPL and advise LUQA GROUND when requesting enroute clearance. An alternative clearance will be provided by ATC subject to traffic.
3. VFR pilots should exercise caution when LM-D1 or LM-D6 are active due to the close proximity of the GOZO VFR DEP RWY 05 / 13 with these danger areas.
4. Pilots should plan to exit the OUTER zone at 2000ft. Higher levels may be authorized by ATC after leaving the INNER zone, subject to traffic.

CIRCUIT HOLDING AREAS IN THE LUQA ATZ FOR LIGHT AIRCRAFT

Circuit Holding Areas in the Luqa ATZ for light aircraft



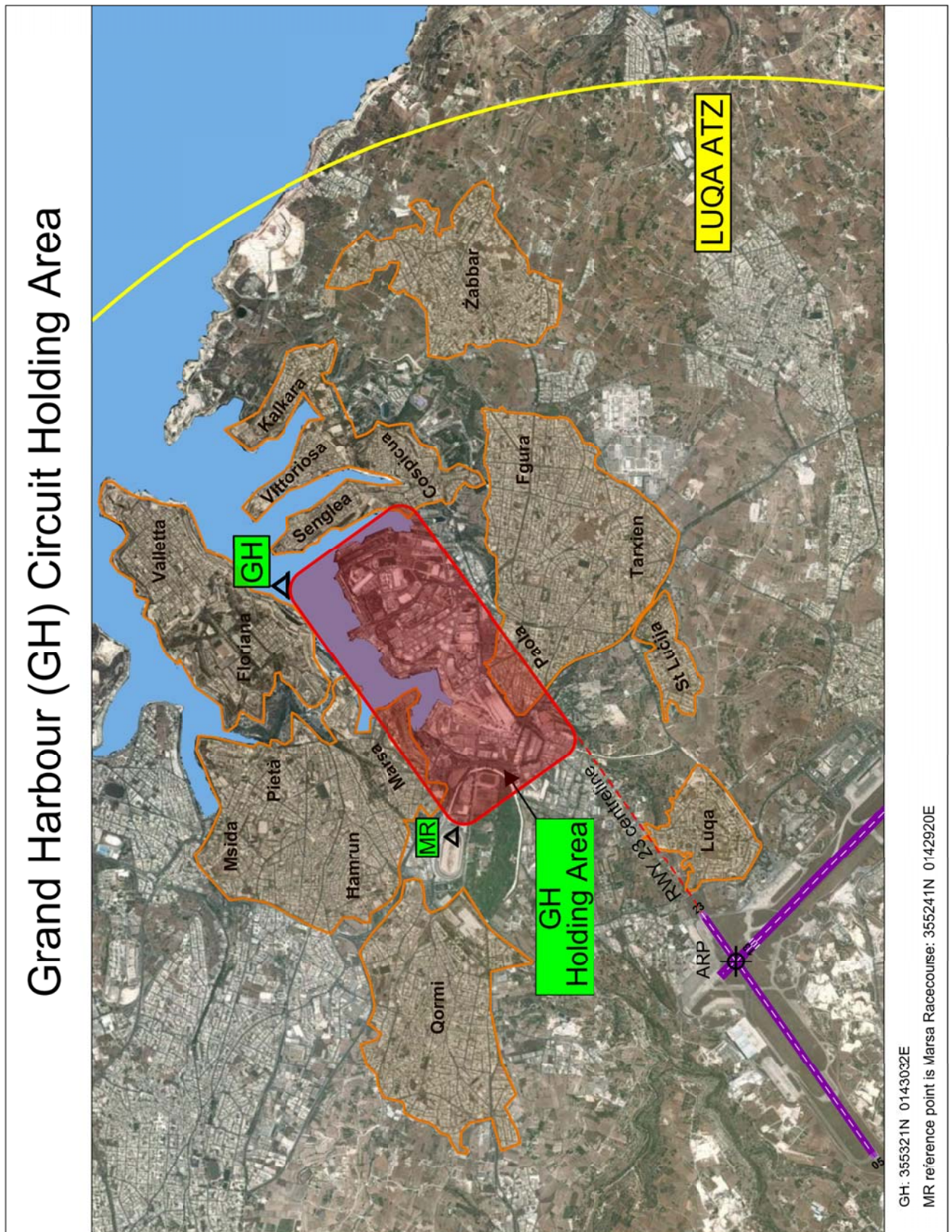
AD ELEV 300 FT	ARP 355127.15N 0142838.78E	MAG VAR 3° 02' E (2017)	LUQA INFORMATION 127.4 MHz
LUQA TOWER 135.1 MHz	LUQA GROUND 121.6 MHz		

Change: removed SW reference point

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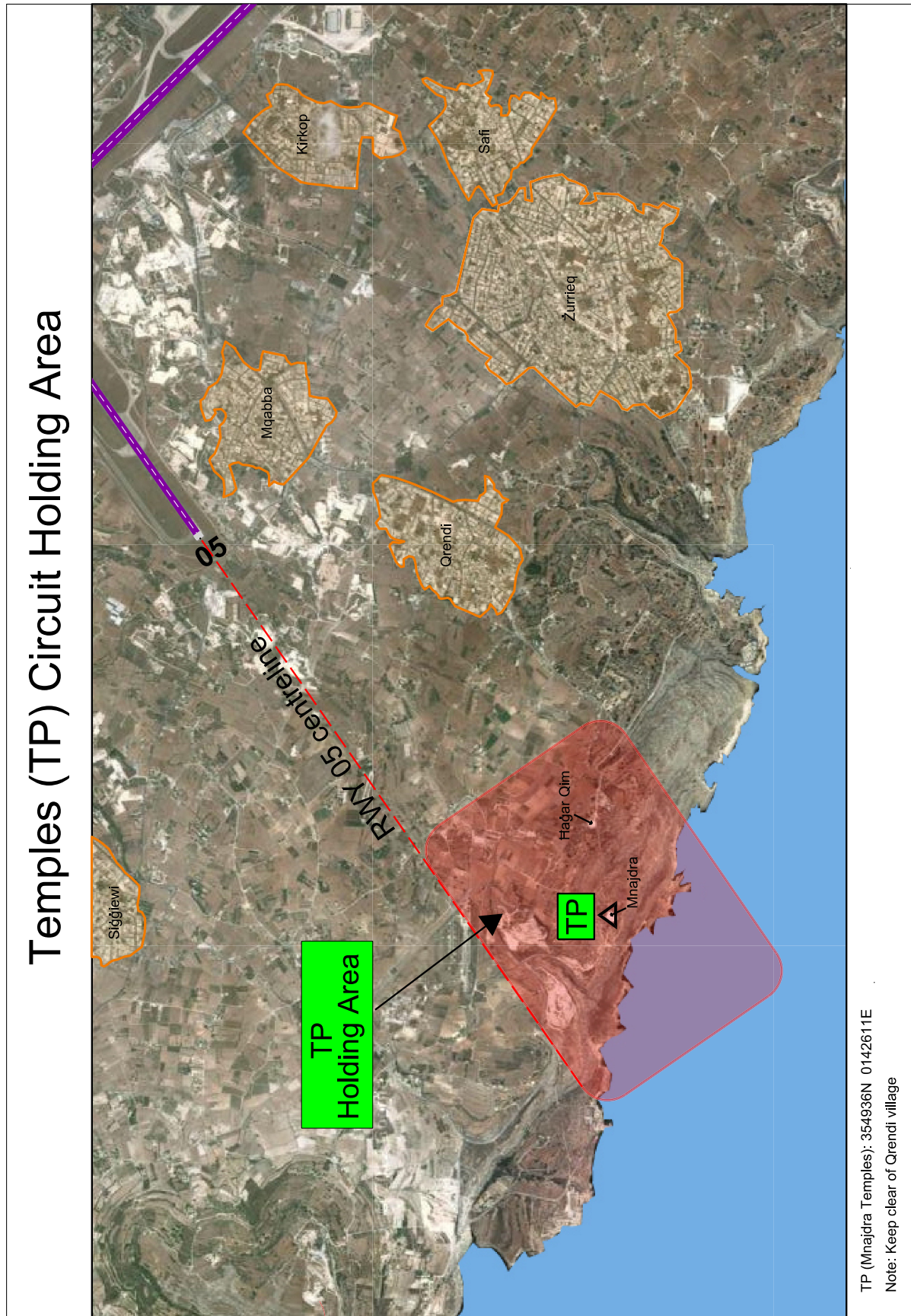
GRAND HARBOUR (GH) CIRCUIT HOLDING AREA



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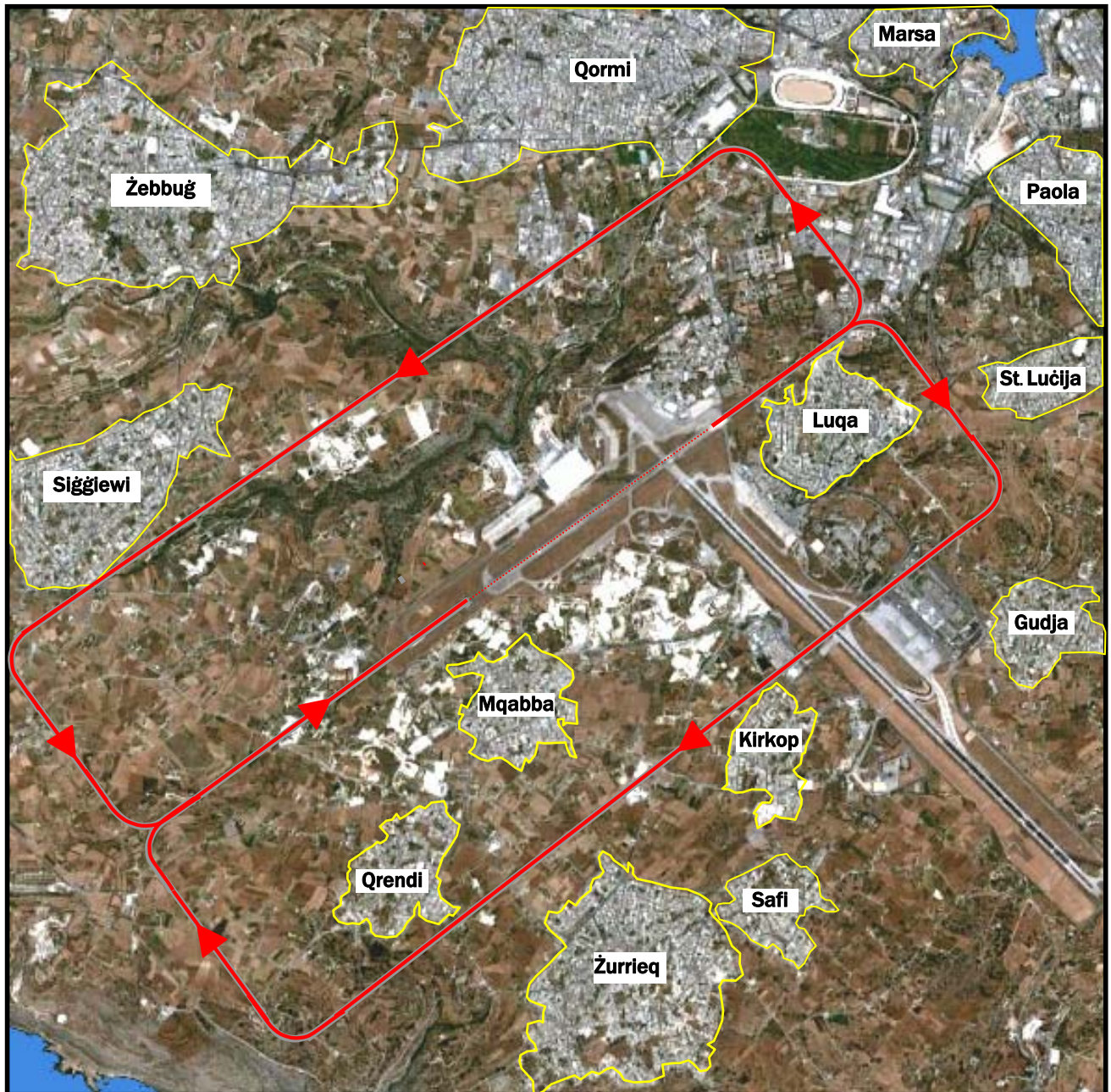
TEMPLES (TP) CIRCUIT HOLDING AREA



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VISUAL CIRCUIT RWY 05 FOR LIGHT AIRCRAFT



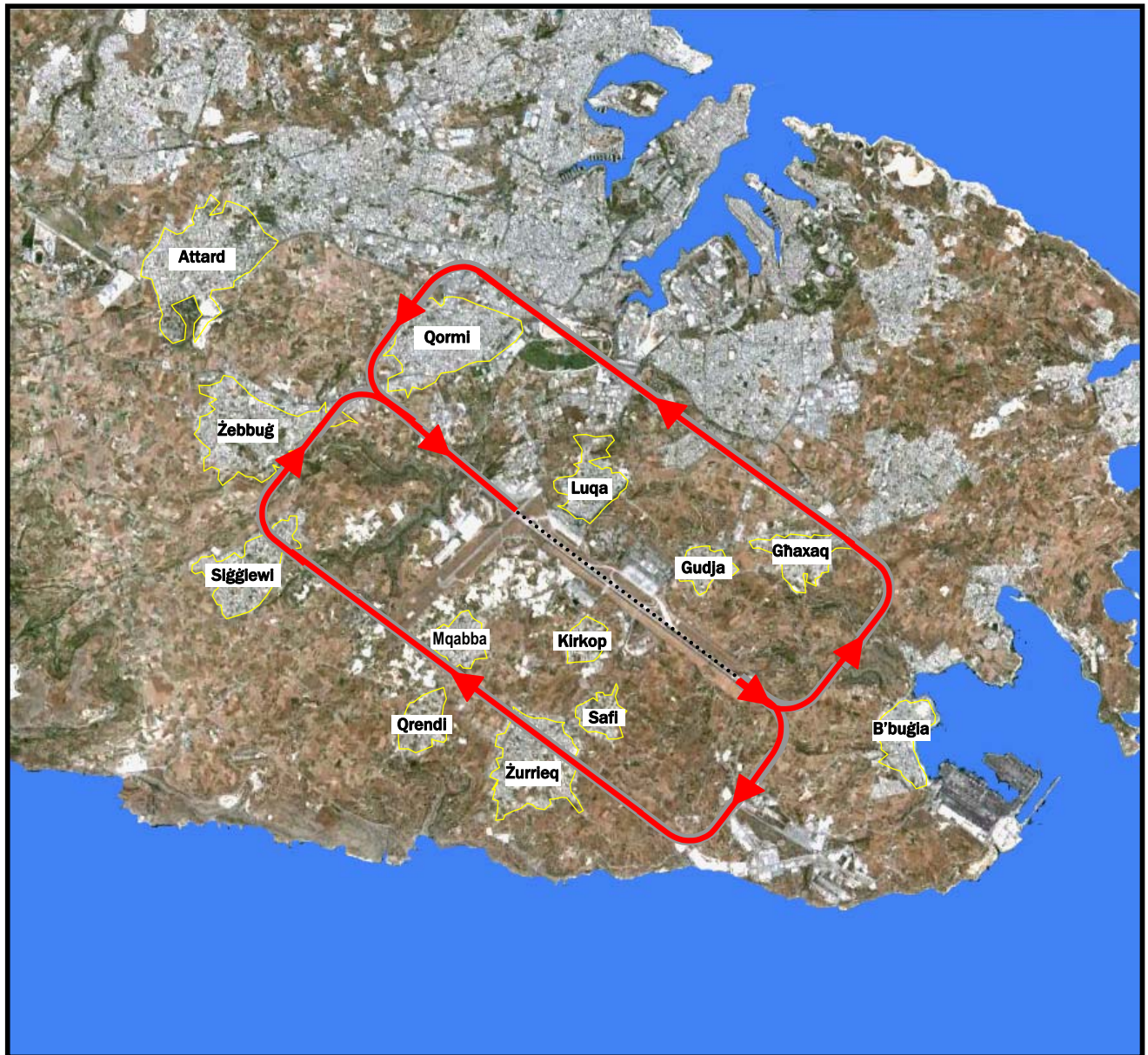
Circuit Altitude not above 1500 feet QNH.

Circuits on RWY 05 may be variable in direction in accordance with ATC instructions.

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VISUAL CIRCUIT RWY 13 FOR LIGHT AIRCRAFT



Circuit Altitude not above 1500 feet QNH.

Circuits on RWY 13 may be variable in direction in accordance with ATC instructions.

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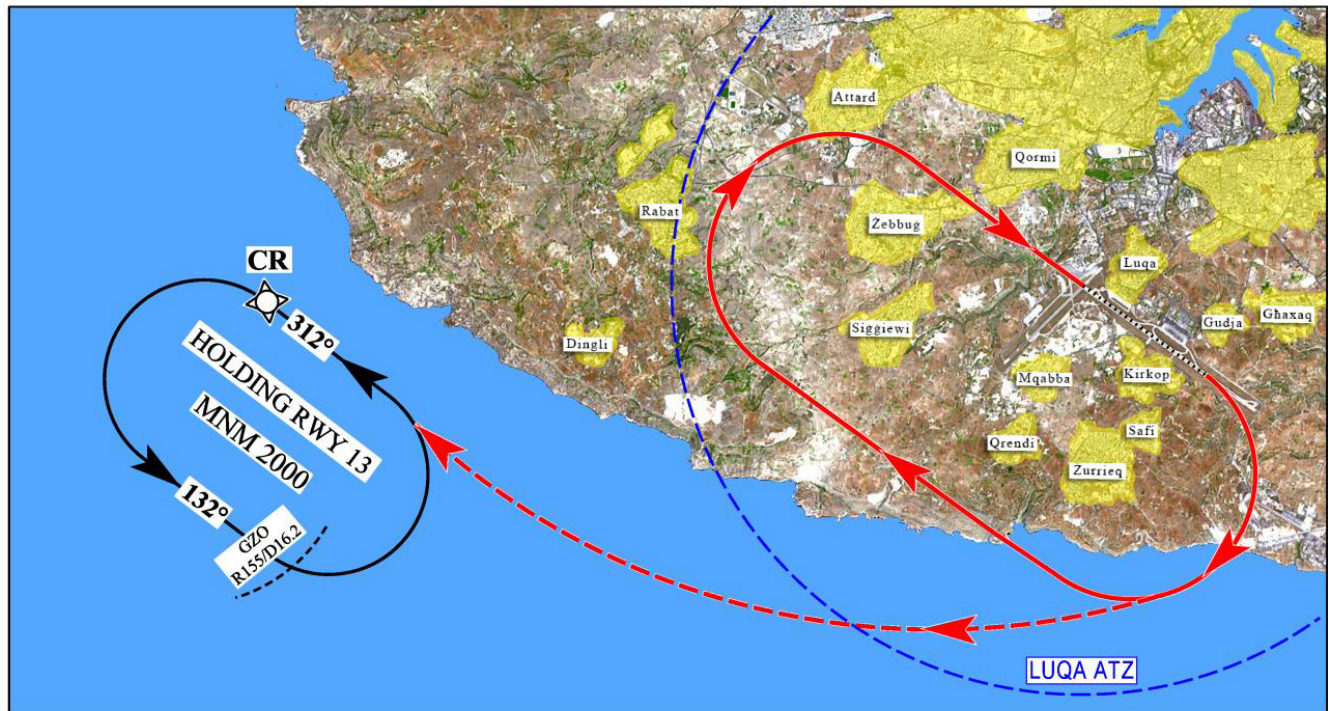


VISUAL CIRCUIT RWY 13 FOR LIGHT AIRCRAFT - LOW-LEVEL CIRCUIT



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STANDARD RIGHT-HAND VISUAL CIRCUIT RWY 13 FOR MEDIUM/HEAVY AIRCRAFT



Unless otherwise instructed by ATC:

- Climb straight ahead and turn crosswind as indicated in red above.
- Climb to maintain altitude 2000 ft before joining right downwind.
- Commence base turn south of Rabat village to intercept final approach RWY 13.

For delay purposes and sequencing with other traffic ATC may instruct aircraft to hold over CR as indicated overleaf. When instructed to hold over CR aircraft should climb straight ahead and turn crosswind as indicated in dashed red above.

## Holding Procedure

Holding Fix Designator: CR  
Coordinates of CR: 355219N 0141855E  
Left-Hand Pattern

Inbound Track: 312°  
Outbound Time/Distance: 1 min / 4 NM (whichever is earlier)  
Maximum IAS: 210 KT  
Minimum Holding Altitude: 2000 ft



VISUAL CIRCUIT RWY 23 FOR LIGHT AIRCRAFT



Circuit Altitude not above 1500 feet QNH.

Circuits on RWY 23 may be variable in direction in accordance with ATC instructions.

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VISUAL CIRCUIT RWY 31 FOR LIGHT AIRCRAFT



Circuit Altitude not above 1500 feet QNH.

Circuits on RWY 31 may be variable in direction in accordance with ATC instructions.

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VISUAL CIRCUIT RWY 31 FOR LIGHT AIRCRAFT - LOW-LEVEL CIRCUIT



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STANDARD LEFT-HAND VISUAL CIRCUIT RWY 31 FOR MEDIUM/HEAVY AIRCRAFT



Unless otherwise instructed by ATC:

- Climb straight ahead and turn crosswind as indicated in red above.
- Climb to maintain altitude 2000 ft before joining left downwind.
- Commence base turn to intercept final approach over the sea.

For delay purposes and sequencing with other traffic ATC may instruct aircraft to hold over FA as indicated overleaf. When instructed to enter the hold over FA aircraft should climb straight ahead and turn crosswind as indicated in dashed red above.

## Holding Procedure

Holding Fix Designator:	FA
Coordinates of FA:	354730N 0142451E
Right-Hand Pattern	
Inbound Track:	132°
Outbound Time/Distance:	1 min / 4 NM (whichever is earlier)
Maximum IAS:	210 KT
Minimum Holding Altitude:	2000 ft



**AD 3 HELIPORTS****GOZO HELIPORT**

Note: The following sections in this chapter are intentionally left blank: AD-3.14, AD-3.15, AD-3.16, AD-3.17, AD-3.18, AD-3.19, AD-3.20, AD-3.21, AD-3.22

**LMMG AD 3.1 HELIPORT LOCATION INDICATOR AND NAME**

LMMG — GOZO Heliport

**LMMG AD 3.2 HELIPORT GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	Heliport reference point co-ordinates and site at heliport	360143N 0141621E (*) at geometrical centre of the strip
2	Elevation	326 FT
3	Heliport Administration, address, telephone, fax, SITA	The Chairperson Gozo Heliport Ltd c/o Malta Investment Management Co. Ltd The Clock Tower Tigne Point Sliema TP 01 Malta Phone:(356) 9982 2704 Email: lisa-marie.brooke@gov.mt
5	Types of traffic permitted (IFR/VFR)	VFR only
6	Remarks	The Gozo Heliport is unlicensed and available for domestic traffic only. Prior permission is required for the use of the heliport.

**LMMG AD 3.3 OPERATIONAL HOURS**

1	Operational hours	Day operations only – operating hours will be established subject to company exigencies. Night operations only allowed in exceptional circumstances and with prior coordination.
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**LMMG AD 3.4 FIRE FIGHTING SERVICES**

1	Heliport category for fire fighting	Unavailable
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**LMMG AD 3.5 MARKINGS**

1	Heliport markings	Heliport identification, TLOF edge, edge of strip
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**LMMG AD 3.6 HELIPORT OBSTACLES**

In approach/TKOF areas			Near heliport		Remarks
1A			1B		
Area affected	Obstacle Type Elevation Markings/LGT	Co-ordinates	Obstacle Type Elevation Markings/LGT	Co-ordinates	
a	b	c	a	b	
10/APCH 28/TKOF	Xewkija Church 585 FT	360158N 0141542E *	Santa Cilia Tower 381 FT	360149N 0141629E *	Nil
	Ghajnsielem Church - 406 FT	360139N 0141725E *			

### LMMG AD 3.7 METEOROLOGICAL INFORMATION PROVIDED

1	Met information provided	Only meteorological information specific to Luqa aerodrome is provided by Malta ATS
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### LMMG AD 3.8 HELIPORT DATA

1	Heliport type	Surface level
2	TLOF dimensions and SFC type	22 M x 22 M, concrete
3	Strip dimensions and SFC type	130 M x 20 M, asphalt Overall length, including concrete pads is 174 M
4	MAG bearings	280°/100°
5	Safety area dimensions	285 M x 85 M
6	Remarks	Nil

### LMMG AD 3.9 HELIPORT LIGHTING

1	Hours of operation	Day Operations Only
2	WDI location and LGT	86 M, BRG 036° from the centre of eastern concrete pad, not lighted
3	Remarks	Non-standard flood lighting available for illumination of eastern end of strip during night.

### LMMG AD 3.10 ATS AIRSPACE

1	Airspace details	(see AD 2.17 for details of the Malta CTR)
2	ATS unit	Uncontrolled heliport and all communications shall be made with Luqa Tower.

### LMMG AD 3.11 LOCAL TRAFFIC REGULATIONS

- Unless occupied or otherwise directed by the heliport administration, helicopters shall land on the concrete pad at the eastern end of the strip, nearest the Terminal building, in order to facilitate the disembarking and embarking of passengers.
- Take-off shall be made from one of the concrete pads at either end of the heliport strip.

### LMMG AD 3.12 NOISE ABATEMENT PROCEDURES

- Helicopters should avoid flying over residential areas located near the heliport at all times, especially during the night.

### LMMG AD 3.13 FLIGHT PROCEDURES

- All approaches shall be conducted in such a way as to avoid built-up areas as much as practicable. Pilots shall maintain two-way RTF contact with Luqa Tower, at least until the heliport is in sight.
- All departures shall be conducted in such a way as to avoid built-up areas as much as practicable. Pilots shall:
  - maintain two-way RTF contact with Luqa Tower at least until the Heliport is in sight when proceeding to Gozo;
  - try to establish radio contact with Luqa Tower prior to taking off from the Heliport and in the event when no such communications can be established, take-off at their discretion up to a maximum height of 500 FT and remain in the vicinity of the Heliport until two-way radio communications has been established with Luqa Tower or Approach.
- Landing and take-off at the Gozo Heliport shall be conducted at pilot's discretion.

### LMMG AD 3.23 CHARTS RELATED TO A HELIPORT

Chart name	Page
Heliport Chart — ICAO	AD 3-LMMG-HPC - 1

HELIPORT CHART — ICAO



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