

## PORTUGAL



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**AIP AMENDMENT: AIRAC 004-24**  
**EFFECTIVE DATE: 31-OCT-2024**

### 1. AIRAC changes incorporated in this AIP Amendment:

#### GEN

NIL

#### ENR

5.3 Graciosa Island - new ENA station.  
 5.4 New obstacles. Obstacles corrected.  
 6.01-5 Chart updated.

#### AD

LPCS SID RNAV RWY35, coding table changed.  
 SID RNAV RWY17, coding table changed.  
 STAR RNAV RWY35, chart changed.

#### LPFR

STAR RNAV RWY10, chart and coding table changed.  
 STAR RNAV RWY28, chart and coding table changed.  
 STAR RNAV CDO RWY10 renumbered.  
 STAR RNAV CDO RWY28 ODEMI5K renumbered.  
 STAR RNAV CDO RWY28 ALAGU5K renumbered.

#### LPLA

2.22 New Holding CUDLY

#### LPPR

2.8 ACFT type (critical) changed.  
 2.9 Stopping at Parking Positions information removed.  
 2.18 ATS communication facilities - frequency changed.  
 2.20 Follow-Me and Marshaller assistance changed.  
 Local aerodrome regulations - new LVTO RWY 17.  
 Aerodrome chart changed  
 Aircraft parking docking chart APRON S changed.  
 Aircraft parking docking chart APRON T and W changed.  
 Visual approach chart changed.

#### LPPT

Local aerodrome regulations changed.

#### LPVR

DVOR/DME VIS new restriction.

**2. NON-AIRAC changes incorporated in this AIP Amendment:****GEN**

- 1.1 Designated Authorities changed.
- 1.2 Entry, Transit and Departure of Aircraft changed.
- 1.3 Entry, Transit and Departure of Passengers and Crew changed.
- 1.7 Differences from ICAO Standards, Recommended Practices and Procedures changed.
- 2.2 New Abbreviation.
- 3.6 Search and rescue - RCC Lajes contacts changed.

**ENR**

- 1.1 RCL received by LPPO title changed.
- 1.10 ARO units changed.  
SATVOICE changed.
- 5.5 Aerial sporting and recreational activities contacts changed.

**AD**

- LPFR ARO Portugal contacts changed.
- LPMA ARO Portugal contacts changed.
- LPPD ARO Portugal contacts changed.
- LPPR ARO Portugal contacts changed. Fax information removed.
- LPPT ARO Portugal contacts changed.

**3. This AIP Amendment incorporates information contained in the following publications:**

NOTAM Series A:

A2023/24, A2047/24, A2048/24, A2120/24, A2121/24, A2122/24, A2123/24, A2132/24, A2133/24, A2134/24, A2135/24, A2136/24, A2159/24, A2187/24, A2238/24, A2737/24, A2784/24, A2895/24, A2940/24, A2941/24, A3315/24.

NOTAM incorporated in this AMDT will be cancelled by NOTAMC on 14-NOV-2024.

SUP: 28/2018, 43/2024.

AIC: NIL

**4. Insert / remove the pages as shown in list on the next page(s):**



LPPR AD 2 - 15/16  
LPPR AD 2 - 17/18  
LPPR AD 2 - 19/20  
LPPR AD 2 - 21/22  
LPPR AD 2 - 23/24

LPPR AD 2.24.01-1 - 1/2  
LPPR AD 2.24.02-1 - 1/2  
LPPR AD 2.24.02-3 - 3/4  
LPPR AD 2.24.13-1 - 1/2  
LPVR AD 2 - 7/8

31-OCT-2024 / 31-OCT-2024  
31-OCT-2024 / 31-OCT-2024  
31-OCT-2024 / 31-OCT-2024  
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31-OCT-2024  
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31-OCT-2024 / 15-JUN-2023

LPPR AD 2 - 15/16  
LPPR AD 2 - 17/18  
LPPR AD 2 - 19/20  
LPPR AD 2 - 21/22  
LPPR AD 2 - 23/24  
LPPR AD 2 - 25/26

LPPR AD 2.24.01-1 - 1/2  
LPPR AD 2.24.02-1 - 1/2  
LPPR AD 2.24.02-3 - 3/4  
LPPR AD 2.24.13-1 - 1/2  
LPVR AD 2 - 7/8

10-AUG-2023 / 22-FEB-2024  
10-AUG-2023 / 10-AUG-2023  
10-AUG-2023 / 10-AUG-2023  
10-AUG-2023 / 10-AUG-2023  
10-AUG-2023 / 22-FEB-2024  
30-NOV-2023

22-FEB-2024 / N/A  
22-FEB-2024 / N/A  
24-MAR-2022 / N/A  
02-DEC-2021 / N/A  
22-FEB-2024 / 15-JUN-2023

## GEN 0.2 RECORD OF AIP AMENDMENTS

<b>AIP AMENDMENT</b>			
<i>NR/Year</i>	<i>Publication date</i>	<i>Date inserted</i>	<i>Inserted by</i>
018/2020	13-Feb-2020	28-Feb-2020	
019/2020	04-Jun-2020	19-Jun-2020	
020/2021	11-Feb-2021	26-Feb-2021	
021/2023	12-Jan-2023	27-Jan-2023	
022/2023	10-Mar-2023	26-Mar-2023	

<b>AIRAC AIP AMENDMENT</b>			
<i>NR/Year</i>	<i>Publication date</i>	<i>Effective Date</i>	<i>Inserted by</i>
003/2020	24-Sep-2020	05-Nov-2020	
004/2020	22-Oct-2020	03-Dec-2020	
001/2021	14-Jan-2021	25-Feb-2021	
002/2021	08-Apr-2021	20-May-2021	
003/2021	01-Jul-2021	12-Aug-2021	
004/2021	26-Aug-2021	07-Oct-2021	
005/2021	21-Oct-2021	02-Dec-2021	
001/2022	10-Feb-2022	24-Mar-2022	
002/2022	24-Mar-2022	19-May-2022	
003/2022	02-Jun-2022	14-Jul-2022	
004/2022	25-Aug-2022	06-Oct-2022	
005/2022	20-Oct-2022	01-Dec-2022	
001/2023	09-Feb-2023	23-Mar-2023	
002/2023	04-May-2023	15-Jun-2023	
003/2023	01-Jun-2023	13-Jul-2023	
004/2023	29-Jun-2023	10-Aug-2023	
005/2023	19-Oct-2023	30-Nov-2023	
001/2024	11-Jan-2024	22-Feb-2024	
002/2024	21-Mar-2024	16-May-2024	
003/2024	30-May-2024	11-Jul-2024	
004/2024	19-Sep-2024	31-Oct-2024	

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**GEN 0.3 RECORD OF AIP SUPPLEMENTS**


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NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
008/2013	LPFL - OBSTACLES PROTRUDING TRANSITIONAL SURFACE	AD	27-JUN-2013	Effective UFN
013/2013	LPCC - OBSTACLE ERECTED IN LISBOA (CITY)	ENR	27-JUN-2013	Effective UFN
014/2013	LPCC - OBSTACLE LIGHTS OUT OF SERVICE	ENR	27-JUN-2013	Effective UFN
013/2018	LPVR AD - RWY 02 APCH LIGHTS OUT OF SERVICE	AD	02-FEB-2018	Effective UFN
028/2018	LPPO FIR - LAUNCH OF UNMANNED BALLOON FLIGHTS	ENR	13-SEP-2018	Effective UFN
031/2018	LPPO FIR - DVORTAC VFL TACAN PART OUT OF SERVICE	AD, ENR	13-SEP-2018	Effective UFN
054/2018	LPPL AD - INSTRUMENT APPROACH PROCEDURES CHANGED	AD	07-DEC-2018	Effective UFN
007/2020	LPPL - METAR WIND INFORMATION LIMITATIONS	AD	03-JAN-2020	Effective UFN
024/2020	LPBJ AD - LANDING AREA LIGHTING ACTIVATION DELAYS	AD	19-JUN-2020	Effective UFN
032/2020	LPCC FIR - OFFSHORE WIND FARM	ENR	19-JUN-2020	Effective UFN
044/2020	LPBJ AD - THR IDENTIFIER LIGHTS U/S	AD	05-NOV-2020	Effective UFN
002/2021	LPCC FIR - ATS CONTINGENCY ROUTES FOR MADEIRA SECTOR DUE TO RADAR INOPERATIVE	ENR	26-FEB-2021	Effective UFN
072/2021	LPPT AD - TAXIWAY K CLOSED	AD	02-DEC-2021	Effective UFN
001/2022	LPBJ AD - FIRE FIGHTING AND RESCUE	AD	24-MAR-2022	Effective UFN
019/2022	LPBJ AD - TWY H EDGE LIGHTS U/S	AD	19-MAY-2022	Effective UFN
004/2023	LPPL AD - OBSTACLES (ANTENNAS)	AD	27-JAN-2023	Effective UFN
027/2023	LPFR AD - STAND CLOSED	AD	23-MAR-2023	Effective UFN
030/2023	LPSS AD - RWY 18 TURN PAD CLOSED	AD	23-MAR-2023	Effective UFN
038/2023	LPFR AD - NON-STANDARD PARKING ON STAND S42	AD	26-MAR-2023	Effective UFN
062/2023	LPPT AD - OBSTACLES ERECTED	AD	10-AUG-2023	31-JUL-2025 EST
003/2024	LPCC FIR - OBSTACLE ERECTED	ENR	22-FEB-2024	31-DEC-2025 EST
004/2024	LPSS AD - IAP PART LPV RWY 18/36 SUSPENDED	AD	22-FEB-2024	31-DEC-2024 EST
006/2024	LPPT AD - OBSTACLE ERECTED	AD	22-FEB-2024	30-JUN-2025 EST
007/2024	LPPT AD - OBSTACLE ERECTED	AD	22-FEB-2024	31-MAY-2025 EST
008/2024	LPPT AD - OBSTACLE ERECTED	AD	22-FEB-2024	31-MAY-2025 EST
009/2024	LPCC FIR - UNMANNED AIRCRAFT SYSTEMS (UAS) WITHIN LPR43C	AD	22-FEB-2024	31-DEC-2024 EST
012/2024	LPMA AD - FUEL 100LL NOT AVAILABLE	AD	22-FEB-2024	31-DEC-2024 EST
013/2024	LPFR AD - PORTO APPROACH SECONDARY FREQUENCY U/S	AD	22-FEB-2024	31-DEC-2024 EST
015/2024	LPPT AD - ACFT CODE D AND CODE E TWY RESTRICTIONS	AD	22-FEB-2024	31-DEC-2024 EST

NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
016/2024	LPPS AD - FIRE FIGHTING AND RESCUE DOWNGRADED	AD	22-FEB-2024	31-DEC-2024 EST
017/2024	LPPT TMA - VFR ROUTE CLOSED (TNW)	ENR, AD	22-FEB-2024	31-DEC-2024 EST
018/2024	LPPT TMA - VFR LIMITATIONS	ENR, AD	22-FEB-2024	31-DEC-2024 EST
020/2024	LPPC FIR - UNMANNED AERIAL VEHICLE ACTIVITY	ENR, AD	22-FEB-2024	31-DEC-2024
021/2024	LPPC FIR - UNMANNED AERIAL VEHICLE ACTIVITY	ENR	22-FEB-2024	31-DEC-2024
024/2024	LPPR AD - OBSTACLE LIGHTS U/S	AD	22-FEB-2024	31-DEC-2024 EST
026/2024	LPPR AD - RETIL U/S	AD	22-FEB-2024	31-DEC-2024 EST
031/2024	LPPC FIR - UNMANNED AIRCRAFT SYSTEMS (UAS) WITHIN R51BN/R51BS (LPBJ)	ENR, AD	11-MAR-2024	31-DEC-2024
032/2024	LPPC FIR - UNMANNED AIRCRAFT SYSTEMS (UAS)	ENR	11-MAR-2024	31-DEC-2024
033/2024	LPCS AD - OBSTACLE ERECTED	AD	16-MAY-2024	31-DEC-2024 EST
035/2024	LPPT AD - OBSTACLE ERECTED (CRANE)	AD	16-MAY-2024	31-AUG-2024 EST
037/2024	LPPC FIR - OBSTACLE LIGHTING INOP	ENR	16-MAY-2024	31-DEC-2024 EST
038/2024	BELARUSSIAN AIRCRAFT RESTRICTIONS	ENR	16-MAY-2024	28-FEB-2025 EST
039/2024	LPFR AD - OBSTACLE ERECTED	AD	16-MAY-2024	31-JAN-2025 EST
040/2024	LPFR AD - OBSTACLE ERECTED	AD	16-MAY-2024	31-JAN-2025 EST
041/2024	LPPT AD - OBSTACLE ERECTED	AD	16-MAY-2024	31-JUL-2024 EST
042/2024	LPPT AD - CRANE ERECTED (CAMPO NOVO)	AD	16-MAY-2024	31-MAR-2025 EST
043/2024	LPPT AD - REDUCED RUNWAY SEPARATION MINIMA	AD	16-MAY-2024	30-SEP-2024 EST
046/2024	LPPT AD - OBSTACLE ERECTED	AD	11-JUL-2024	26-OCT-2025 EST
047/2024	LPPT AD - VEHICLE SERVICE ROAD CONNECTION BETWEEN	AD	11-JUL-2024	31-OCT-2024 EST
049/2024	LPPT AD - OBSTACLE ERECTED	AD	11-JUL-2024	31-MAR-2025 EST
050/2024	LPPT AD - OBSTACLE ERECTED	AD	11-JUL-2024	31-DEC-2024 EST
053/2024	LPFL AD - OPERATIONAL HOURS	AD	11-JUL-2024	26-OCT-2024 EST
054/2024	LPHR AD - OPERATIONAL HOURS	AD	11-JUL-2024	26-OCT-2024 EST
056/2024	LPPC FIR - REPMUS24 MILITARY EXERCISES	ENR	19-JUL-2024	27-SEP-2024
057/2024	LPPT AD - OBSTACLE ERECTED	AD	31-OCT-2024	01-AUG-2025 EST
058/2024	VOR/DME VSM VOR PART U/S	ENR, AD	31-OCT-2024	31-DEC-2024 EST
059/2024	LPPC FIR - OBSTACLES ERECTED	ENR	31-OCT-2024	31-MAR-2025 EST
060/2024	LPBJ AD - OBSTACLE LIGHTS U/S	AD	31-OCT-2024	UFN
061/2024	LPAZ AD - TWR OBSTACLE LIGHTS U/S	AD	31-OCT-2024	31-DEC-2024 EST
062/2024	LPPS AD - PAVEMENT STRUCTURE LIMITATIONS	AD	31-OCT-2024	30-JUN-2025 EST
063/2024	LPPR AD - A-SMGCS DOWNGRADED	AD	31-OCT-2024	31-DEC-2024 EST
064/2024	LPPI AD - RWY AND APCH LIGHTS CONTROL N/A	AD	31-OCT-2024	30-JUN-2025 EST
065/2024	LPPI AD - RTIL RWY 09/27 U/S	AD	31-OCT-2024	30-JUN-2025 EST
066/2024	LPPC FIR - OBSTACLE ERECTED (TOWER) - ALPIARÇA - SANTARÉM	ENR	31-OCT-2024	21-NOV-2025 EST



NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
067/2024	LPPC FIR – OBSTACLE ERECTED (TWO TOWERS) - HERDADE DA LAMPREIA - ABRANTES	ENR	31-OCT-2024	31-MAY-2025 EST
068/2024	LPPC FIR - OBSTACLE ERECTED (TOWER) - SOUSEL	ENR	31-OCT-2024	30-JUN-2025 EST
069/2024	LPPI AD - DVOR/DME VAP/SÃO JORGE OUT OF SERVICE	AD	31-OCT-2024	15-DEC-2024 EST
070/2024	LPPT AD - OBSTACLE ERECTED (CRANE-GT1)	AD	31-OCT-2024	31-MAR-2026 EST
071/2024	LPPT AD - OBSTACLE ERECTED (CRANE) - ENTRECAMPOS	AD	31-OCT-2024	28-FEB-2025 EST
072/2024	LPPT AD - OBSTACLE ERECTED (CRANE)	AD	31-OCT-2024	20-JAN-2025 EST
073/2024	LPCS AD - OBSTACLE ERECTED (EN 227-5)	AD	31-OCT-2024	30-DEC-2024 EST
074/2024	LPEV AD - PAPI RWY 19 U/S	AD	31-OCT-2024	25-DEC-2024 EST
075/2024	LPBJ AD - OBSTACLE ERECTED	AD	31-OCT-2024	UFN
076/2024	UKRANIAN CRISIS - FIR RESTRICTIONS	ENR	31-OCT-2024	26-SEP-2025 EST
077/2024	LPSS AD - DELAYS ON UNSCHEDULED FLIGHTS	AD	31-OCT-2024	31-DEC-2024 EST
078/2024	LPEV AD - RWY 07/25 CLOSED	AD	31-OCT-2024	31-JAN-2025 EST
079/2024	LPHR AD - WDI RWY 10 U/S	AD	31-OCT-2024	31-DEC-2024 EST
080/2024	LPPR AD – STAND S40 DOWNGRADED	AD	31-OCT-2024	31-DEC-2024 EST
081/2024	LPMA AD - TEMPORARY PARKING RESTRICTIONS	AD	31-OCT-2024	15-JAN-2025 EST
082/2024	LPCS AD - USE OF TERMINAL BUILDING	AD	31-OCT-2024	31-MAR-2025 EST
083/2024	LPPT AD - MAJOR WORKS - EXTENSION OF APRON 10 AND NEW APRON 23	AD	31-OCT-2024	UFN
084/2024	LPPT AD – MAJOR WORKS - EXTENSION OF APRON 10 AND NEW APRON 23	AD	31-OCT-2024	28-FEB-2025 EST
085/2024	RUSSIAN FEDERATION - OPERATION RESTRICTIONS IN PORTUGUESE TERRITORY	AD	31-OCT-2024	31-MAY-2025 EST
086/2024	LPPR AD - RWY 17/35 CLOSED	AD	31-OCT-2024	23-DEC-2025 EST

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**GEN 0.4 CHECKLIST OF AIP PAGES**

Page	Date	Page	Date	Page	Date
<b>PART 1 – GENERAL (GEN)</b>					
GEN 0.1 - 1	20-MAY-2021	GEN 3.5 - 1	19-MAY-2022	ENR 2.1 - 5	24-MAR-2022
GEN 0.1 - 2	20-MAY-2021	GEN 3.5 - 2	19-MAY-2022	ENR 2.1 - 6	24-MAR-2022
GEN 0.2 - 1	31-OCT-2024	GEN 3.5 - 3	19-MAY-2022	ENR 2.1 - 7	24-MAR-2022
GEN 0.3 - 1	31-OCT-2024	GEN 3.5 - 4	19-MAY-2022	ENR 2.1 - 8	14-JUL-2022
GEN 0.3 - 2	31-OCT-2024	GEN 3.5 - 5	14-JUL-2022	ENR 2.1 - 9	16-MAY-2024
GEN 0.3 - 3	31-OCT-2024	GEN 3.5 - 6	14-JUL-2022	ENR 2.1 - 10	16-MAY-2024
GEN 0.4 - 1	31-OCT-2024	GEN 3.6 - 1	12-AUG-2021	ENR 2.1 - 11	16-MAY-2024
GEN 0.4 - 2	31-OCT-2024	GEN 3.6 - 2	31-OCT-2024	ENR 2.1 - 12	16-MAY-2024
GEN 0.4 - 3	31-OCT-2024	GEN 3.6 - 3	12-SEP-2019	ENR 2.1 - 13	16-MAY-2024
GEN 0.4 - 4	31-OCT-2024	GEN 3.6 - 4	12-SEP-2019	ENR 2.1 - 14	16-MAY-2024
GEN 0.5 - 1	09-JUN-2006	GEN 3.6 - 5	08-JAN-2016	ENR 2.1 - 15	16-MAY-2024
GEN 0.6 - 1	09-NOV-2017	GEN 4.1 - 1	01-DEC-2022	ENR 2.1 - 16	16-MAY-2024
GEN 0.6 - 2	09-NOV-2017	GEN 4.2 - 1	22-FEB-2024	ENR 2.1 - 17	16-MAY-2024
GEN 0.6 - 3	09-NOV-2017	GEN 4.2 - 2	01-MAY-2014	ENR 2.1 - 18	16-MAY-2024
GEN 1.1 - 1	31-OCT-2024	GEN 4.2 - 3	01-MAY-2014	ENR 2.1 - 19	16-MAY-2024
GEN 1.1 - 2	31-OCT-2024	GEN 4.2 - 4	22-FEB-2024	ENR 2.1 - 20	16-MAY-2024
GEN 1.1 - 3	31-OCT-2024	GEN 4.2 - 5	22-FEB-2024	ENR 2.1 - 21	16-MAY-2024
GEN 1.2 - 1	01-DEC-2022	<b>PART 2 – EN-ROUTE (ENR)</b>			
GEN 1.2 - 2	01-DEC-2022	ENR 0.1 - 1	09-JUN-2006	ENR 2.2 - 1	23-MAY-2019
GEN 1.2 - 3	31-OCT-2024	ENR 0.2 - 1	09-JUN-2006	ENR 2.2 - 2	13-JUL-2023
GEN 1.2 - 4	31-OCT-2024	ENR 0.3 - 1	04-AUG-2006	ENR 2.2 - 3	26-MAR-2023
GEN 1.2 - 5	01-DEC-2022	ENR 0.4 - 1	04-AUG-2006	ENR 2.2 - 4	26-MAR-2023
GEN 1.2 - 6	01-DEC-2022	ENR 0.5 - 1	09-JUN-2006	ENR 2.2 - 5	23-MAY-2019
GEN 1.2 - 7	01-DEC-2022	ENR 0.6 - 1	09-JUN-2006	ENR 2.2 - 6	23-MAY-2019
GEN 1.2 - 8	01-DEC-2022	ENR 0.6 - 2	09-NOV-2017	ENR 2.2 - 7	23-MAY-2019
GEN 1.2 - 9	01-DEC-2022	ENR 0.6 - 3	09-NOV-2017	ENR 2.2 - 8	23-MAY-2019
GEN 1.2 - 10	01-DEC-2022	ENR 1.1 - 1	16-MAY-2024	ENR 2.2 - 9	23-MAY-2019
GEN 1.2 - 11	31-OCT-2024	ENR 1.1 - 2	16-MAY-2024	ENR 2.2 - 10	23-MAY-2019
GEN 1.2 - 12	01-DEC-2022	ENR 1.1 - 3	16-MAY-2024	ENR 2.2 - 11	23-MAY-2019
GEN 1.2 - 13	01-DEC-2022	ENR 1.1 - 4	16-MAY-2024	ENR 2.2 - 12	23-MAY-2019
GEN 1.3 - 1	31-OCT-2024	ENR 1.1 - 5	16-MAY-2024	ENR 2.2 - 13	23-MAY-2019
GEN 1.3 - 2	13-NOV-2014	ENR 1.1 - 6	16-MAY-2024	ENR 2.2 - 14	23-MAY-2019
GEN 1.4 - 1	09-JUN-2006	ENR 1.1 - 7	16-MAY-2024	ENR 2.2 - 15	23-MAY-2019
GEN 1.5 - 1	06-JAN-2017	ENR 1.1 - 8	31-OCT-2024	ENR 2.2 - 16	23-MAY-2019
GEN 1.5 - 2	26-FEB-2021	ENR 1.1 - 9	16-MAY-2024	ENR 2.2 - 17	24-JUN-2016
GEN 1.6 - 1	09-NOV-2017	ENR 1.1 - 10	16-MAY-2024	ENR 2.2 - 18	23-MAY-2019
GEN 1.6 - 2	19-JUN-2020	ENR 1.1 - 11	16-MAY-2024	ENR 2.2 - 19	23-MAY-2019
GEN 1.7 - 1	31-OCT-2024	ENR 1.1 - 12	16-MAY-2024	ENR 2.2 - 20	23-MAY-2019
GEN 1.7 - 2	31-OCT-2024	ENR 1.1 - 13	16-MAY-2024	ENR 2.2 - 21	23-MAY-2019
GEN 1.7 - 3	31-OCT-2024	ENR 1.1 - 14	16-MAY-2024	ENR 2.2 - 22	23-MAY-2019
GEN 1.7 - 4	23-MAY-2019	ENR 1.2 - 1	22-FEB-2024	ENR 2.2 - 23	23-MAY-2019
GEN 1.7 - 5	28-MAR-2019	ENR 1.2 - 2	22-FEB-2024	ENR 2.2 - 24	30-MAR-2017
GEN 1.7 - 6	31-OCT-2024	ENR 1.2 - 3	22-FEB-2024	ENR 2.2 - 25	23-MAY-2019
GEN 1.7 - 7	31-OCT-2024	ENR 1.3 - 1	22-FEB-2024	ENR 2.2 - 26	23-MAY-2019
GEN 1.7 - 8	31-OCT-2024	ENR 1.4 - 1	26-JUL-2013	ENR 2.2 - 27	23-MAY-2019
GEN 1.7 - 9	31-OCT-2024	ENR 1.4 - 2	11-JUL-2024	ENR 2.2 - 28	23-MAY-2019
GEN 1.7 - 10	31-OCT-2024	ENR 1.4 - 3	11-JUL-2024	ENR 2.2 - 29	23-MAY-2019
GEN 1.7 - 11	31-OCT-2024	ENR 1.5 - 1	11-JUL-2024	ENR 2.2 - 30	23-MAY-2019
GEN 2.1 - 1	12-DEC-2013	ENR 1.5 - 2	02-DEC-2021	ENR 2.2 - 31	23-MAY-2019
GEN 2.1 - 2	24-MAR-2022	ENR 1.5 - 3	30-NOV-2023	ENR 2.2 - 32	26-MAR-2023
GEN 2.2 - 1	30-NOV-2023	ENR 1.5 - 4	30-NOV-2023	ENR 2.2 - 33	26-MAR-2023
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**GEN 1 NATIONAL REGULATIONS AND REQUIREMENTS****GEN 1.1 DESIGNATED AUTHORITIES****1.1.1 Civil Aviation Authorities****Ministério das Infraestruturas e Habitação – Autoridade Nacional da Aviação Civil (ANAC)**

The authority responsible for civil aviation in Portugal is the Autoridade Nacional da Aviação Civil one of the departments of the Ministry of Infrastructure and Housing.

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Email: geral@anac.pt

URL: <http://www.anac.pt>

The Autoridade Nacional da Aviação Civil (ANAC) is concerned with the following main competencies:

- Cooperation with international organisations on civil aviation.
- Agreements on air transport and other civil aviation matters.
- Permission for entry, exit and transit of aircraft.
- Certification and supervision of airport and aircraft management and operating agencies.
- Certification and supervision of flight operations.
- Airworthiness certification of aircraft and other components.
- Supervision of aircraft maintenance.
- General planning, approval and licensing of air navigation facilities.
- UAS supervision.
- ATS supervision.
- Airspace regulation, navigation and air traffic services and procedures supervision.
- Approval and supervision of aeronautical training establishments.
- Aeronautical Information Services.
- Authority of appeal in matters of civil aviation.
- Licensing of Aeronautical Personnel

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**1.1.2 Meteorology**

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Post: GAMA - Gabinete de Investigação de Acidentes Marítimos e da Autoridade para a Meteorologia Aeronáutica  
Rua C - Aeroporto de Lisboa - Edifício do IPMA  
1749-077 LISBOA

Phone: +351 218447069

Fax: NIL

AFS: NIL

Email: [autoridade@gama.mm.gov.pt](mailto:autoridade@gama.mm.gov.pt)

URL: <http://www.gama.mm.gov.pt>

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**1.1.3 Customs**

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Post: Autoridade Tributária e Aduaneira (AT)  
Rua da Prata, 10 - 2º  
1149-027 LISBOA

AFS: NIL

Phone: +351 218812600

Fax: +351 218812938

Email: [at@at.gov.pt](mailto:at@at.gov.pt)

URL: <http://www.portaldasfinancas.gov.pt>

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**1.1.4 Immigration**

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Post: Polícia de Segurança Pública  
Direção Nacional  
Departamento de Gestão Integrada de Fronteiras  
Rua Martens Ferrão, nº 11, 1º Andar  
1050-206 Lisboa

AFS: NIL

Phone: + 351 219020550

Fax: NIL

Email: [dtf.dgif@psp.pt](mailto:dtf.dgif@psp.pt)

URL: [www.psp.pt](http://www.psp.pt)

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**1.1.5 Health**

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Post: Direção Geral da Saúde  
Alameda D. Afonso Henriques, 45  
1049-005 Lisboa  
Portugal

AFS: NIL

Phone: +351 218430500

Fax: +351 218430530



Email: [saude.aeroportos@dgs.pt](mailto:saude.aeroportos@dgs.pt)

URL: <http://www.dgs.pt>

#### 1.1.6 En-route and Aerodrome/Heliport Charges

Post: Autoridade Nacional da Aviação Civil  
Rua B, Edifícios 4,5 e 6  
Aeroporto de Lisboa  
1749-034 LISBOA

AFS: LPPTYAYA

Telex: AEROCIVIL LISBOA

Phone: +351 218423500

Fax: +351 218473585

Email: [geral@anac.pt](mailto:geral@anac.pt)

URL: <http://www.anac.pt>

#### 1.1.7 Agricultural quarantine

Post: Direção-Geral de Alimentação e Veterinária (DGAV)  
Largo da Academia Nacional das Belas Artes, 2  
1249-105 LISBOA

AFS: NIL

Phone: +351 213239655  
+351 213239653

Fax: +351 213463518

Email: [dirgeral@dgav.pt](mailto:dirgeral@dgav.pt)

URL: <http://www.dgav.pt>

#### 1.1.8 Aircraft accidents investigation

##### Gabinete de Prevenção e Investigação de Acidentes com Aeronaves e de Acidentes Ferroviários (GPIAAF)

The Gabinete de Prevenção e Investigação de Acidentes com Aeronaves e de Acidentes Ferroviários (GPIAAF) is a multimodal accident investigation organization responsible for investigating and determining the probable causes of aircraft accidents and incidents that occur in Portugal or with Portuguese registration aircraft. GPIAAF is a central service of direct administration of the Portuguese State, within the competence of the Member of Government responsible for the transport area, and works independently of the authorities responsible for safety and of any regulatory authority.

Post: Gabinete de Prevenção e Investigação de Acidentes com Aeronaves e de Acidentes Ferroviários (GPIAAF)  
Praça Duque de Saldanha, 31, 4º  
1050-094 LISBOA

Phone: +351 212739230

URL: <http://www.gpiaaf.gov.pt>

Notification 24 hours (National):

Digital notification submitted through: [www.gpiaaf.gov.pt](http://www.gpiaaf.gov.pt)  
Notification via pdf submitted via email: [occreport@gpiaaf.gov.pt](mailto:occreport@gpiaaf.gov.pt)

Phone: Mobile: +351 915192963

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- b. Serious administrative offenses are comprised between a minimum of €250 and a maximum of €1.500 (when the infringer is an individual) and between a minimum of €400 and a maximum of €10.000 (when the infringer is a legal person);
- c. Minor administrative offenses are comprised between a minimum of €150 and a maximum of €1.000 (when the infringer is an individual) and between a minimum of €350 and a maximum of €3.000 (when the infringer is a legal person).

### Schedules Facilitated Airports - Faro and Ponta Delgada

According to Decree-Law No 109/2008, of 26 June, amended by Decree-Law n.º 96/2018, of 26 November and by Decree-Law n.º 7/2020, of 3 March, Ponta Delgada and Faro (Faro Airport only during the IATA Winter season) airports were designated as schedules facilitated airports (level 2). Thus, all carriers operating to and from Faro and Ponta Delgada airports shall submit their proposed schedules in advanced to the schedules facilitator and receive approval before operating.

Submissions shall be made using Schedule Movement Advice (SMA) according to Standard Schedules Information Manual, Chapter 6, (SSIM) General/Business Aviation Clearance Request (GCR) to the email address of the Portuguese Slot Coordination Office:

Email: slotcoordination@nav.pt

During out of office hours (evenings and weekends) short-term ad-hoc changes, cancellations and new requests are handled automatically by the slot coordination system.

More information related to airport slots is available in the national slot coordination site, at:

URL: <https://slots.nav.pt/>

All applications should include the following information:

- Aircraft owner/operator
- Aircraft type and registration
- Flight number
- Origin/destination
- Requested time of arrival and departure.

## 2. Intra-European Union air services

By virtue of Regulation (EC) No 1008/2008, of 24 September, EU carriers have free access to intra-European Union routes, with the exception of those in which Public Service Obligations had been declared, which are subject to specific conditions, and lights involving aerodromes to which the constraints mentioned in 3. apply.

### 3. Constraints applicable to international flights

Intra-EU (EU, EEA and Switzerland) flights, excluding non-Schengen flights (to/from Ireland and Cyprus), inbound or outbound of aerodromes and ultralight runways, are not subject to authorisation. Commercial air transport operations are not allowed at the following aerodromes: LPBR (Braga), LPIN (Espinho), LPFC (Figueira dos Cavaleiros), LPJF (Leiria), LPMI (Mirandela), LPMU (Mogadouro), LPFA (Monte da Aviãoa/Ferreira do Alentejo), LPPN (Proença-a-nova), LPSC (Santa Cruz), LPSR (Santarém), LPMN (Amendoeira/Montemor-o-novo), LPLZ (Lousã), LPAF (Alfragide) and LPHB (Herdade da Brava).

Intra-EU non-Schengen flights (to/from Ireland and Cyprus), inbound or outbound of LPCS (Cascais), LPFL (Flores), LPPI (Pico), LPGR (Graciosa), LPSJ (S. Jorge), LPCR (Corvo), LPBG (Bragança), LPVR (Vila Real), LPCH (Chaves), LPCO (Coimbra), LPEV (Évora), LPVZ (Viseu), LPSO (Ponte De Sor), LPPM (Portimão), LPVL (Vilar da Luz), LPCB (Castelo Branco), LPJB (Algés), LPDA (Massarelos), LPLO (Loulé), LPMB (Morgado de Apra-loulé), LPMZ (Porto Moniz), LPSA (Salemas), LPMC (Macedo de Cavaleiros), LPFE (Fafe) and passenger ship "Amavida" are subject to authorisation from the Polícia de Segurança Pública (PSP).

Extra-EU (other than EU, EEA and Switzerland) flights inbound or outbound of LPCS (Cascais), LPFL (Flores), LPPI (Pico), LPGR (Graciosa) and LPSJ (S. Jorge) are subject to authorisation from the Portuguese Civil Aviation Authority (ANAC), the Polícia de Segurança Pública (PSP), Customs Authority (AT) and from the director of the aerodrome.

When planning on operating extra-European Union (other than EU, EEA and Switzerland) flights inbound or outbound of LPCS (Cascais), LPFL (Flores), LPPI (Pico), LPGR (Graciosa) and LPSJ (S. Jorge), the operator or its representative shall submit the application to the director of the aerodrome and to ANAC (dre.drt@anac.pt), not later than 24 hours (one working-day) before the intended flight, by using the applicable form available at ANAC website.

The operator may be required to submit such additional information as is deemed necessary for consideration of the request.

ANAC will submit the application for PSP and/or AT authorisation, as the case may be, and, when in compliance with the applicable procedure, issue one final authorisation, enabling the operation.

### 3.1 Ultralight Aircraft

Usage of Ultralight Runways is limited to intra-EU flights (excluding EU Non-Schengen countries such as Cyprus and Ireland) and community Schengen flights.

Ultralight aircraft departing from or flying to other non-EU countries or EU non-Schengen countries (Cyprus and Ireland) shall not use these runways, given the fact that these are neither identified or function as a "border passage point", and shall, as consequence, divert to or use suitably qualified aerodromes accepting ultralight aircraft operations, following the same procedures that are laid out for other categories of aircraft.

## 4. Third country operators (TCO) engaged in commercial air transport operations into the EU, EEA and Switzerland.

In conformity with Council Regulation (EU) No 452/2014, of 29 April, only operators holding an EASA TCO authorisation will be eligible for operating permits.

The application for permission shall be submitted to ANAC, together with evidence of the following valid documents:

### a. Commercial flights

- i. TCO authorisation issued by EASA (if applicable);
- ii. Airworthiness certificate and airworthiness review certificate (if applicable);
- iii. Insurance certificate;
- iv. Noise certificate (if applicable);
- v. Carrier security programme (only applicable to scheduled flights).

Carriers with operating license issued by an EU Member-State, when operating aircraft under their own AOC, shall be considered as complying with the above-mentioned applicable requirements.

### b. Private flights

- i. Insurance certificate;
- ii. Airworthiness certificate and airworthiness review certificate or equivalent (if applicable);
- iii. Registration certificate;
- iv. Noise certificate (if applicable).

Aircraft under the supervision and regulatory control of an EU Member-State, when engaged in private flights, shall be considered as complying with the above-mentioned applicable requirements.

Additional documents may be requested.

## 1.2.2 Scheduled Flights

### 1. General

Overflights and landings for non-traffic purposes are allowed in conformity with the conditions prescribed in the air services agreement established between Portugal and the country to which the airline belongs and in the International Transit Agreement.

### 2. Overflight and Non-Traffic Stop

- Overflights or landings for non-traffic purposes require a bilateral, or a multilateral air services agreement to which Portugal and the State granting the operating authorisation to the carrier are parties.

- not later than five (5) days before intended date of operation, application for non-scheduled air services at class IV aerodromes (international airports – LPPT, LPPR, LPFR, LPMA, LPPS, LPPD, LPHR and LPAZ), by using the applicable form, available at ANAC website, and

- not later than one (1) working day before the date of operation, application for non-scheduled air services at class II and III aerodromes, by using the form mentioned in paragraph “1.2.1 General / 3. Constraints applicable to international flights”.

#### 1.2.4 Private Flights

Intra-UE (EU, EEA and Switzerland) flights, excluding non-Schengen flights (to/from, Ireland and Cyprus), inbound or outbound of aerodromes and ultralight runways, are not subject to authorisation. Commercial air transport operations are not allowed at the following aerodromes: LPBR (Braga), LPIN (Espinho), LPFC (Figueira dos Cavaleiros), LPJF (Leiria), LPMI (Mirandela), LPMU (Mogadouro), LPFA (Monte da Aviãa/Ferreira do Alentejo), LPPN (Proença-a-nova), LPSC (Santa Cruz), LPSR (Santarém), LPMN (Amendoeira/Montemor-o-novo), LPLZ (Lousã), LPAF (Alfragide) and LPHB (Herdade da Brava).

Intra-UE non-Schengen flights (to/from Ireland and Cyprus), inbound or outbound of LPCS (Cascais), LPFL (Flores), LPPI (Pico), LPGR (Graciosa), LPSJ (S. Jorge), LPCR (Corvo), LPBG (Bragança), LPVR (Vila Real), LPCH (Chaves), LPCO (Coimbra), LPEV (Évora), LPVZ (Viseu), LPSO (Ponte De Sor), LPPM (Portimão), LPVL (Vilar da Luz), LPCB (Castelo Branco), LPJB (Algés), LPDA (Massarelos), LPLO (Loulé), LPMB (Morgado de Apra-loulé), LPMZ (Porto Moniz), LPSA (Salemas), LPMC (Macedo de Cavaleiros), LPFE (Fafe) and passenger ship “Amavida” are subject to authorisation from the Polícia de Segurança Pública (PSP).

Extra-UE (other than EU, EEA and Switzerland) flights inbound or outbound of LPCS (Cascais), LPFL (Flores), LPPI (Pico), LPGR (Graciosa) and LPSJ (S. Jorge) are subject to authorisation from the Portuguese Civil Aviation Authority (ANAC), the Polícia de Segurança Pública (PSP), Customs Authority (AT) and the director of the aerodrome.

When planning on operating extra-UE (other than EU, EEA and Switzerland) flights inbound or outbound of LPCS (Cascais), LPFL (Flores), LPPI (Pico), LPGR (Graciosa) and LPSJ (S. Jorge), the operator or its representative shall submit the application to the director of the aerodrome and to ANAC (dre.drt@anac.pt) not later than 24 hours (one working-day) before the intended flight, by using the applicable form available at ANAC website.

The operator may be required to submit such additional information as is deemed necessary for consideration of the request.

ANAC will submit the application for PSP and/or AT authorisation, as the case may be, and, when in compliance with the applicable procedure, issue one final authorisation, enabling the operation.

#### 1.2.5 Public Health Measures Applied to Aircraft

NIL

Appendix 1

DECLARATION ON AFFINITY CHARTER FLIGHTS

I (we), the undersigned.....

certify on behalf of the following association (name and address).....

.....

represented by me (us) that

a) the participants in the trip.....

of (date and routing).....

have been fully paid-up members of the association since a date at least six months prior to the start of the trip (1),

b) information concerning the trip is not disseminated otherwise than in the publications or circulars produced by the association for its members,

c) the association agrees to a duly empowered representative of the aviation administration carrying out a check at the offices of the association to determine whether the participants in the trip meet requirement a) above,

d) the association notes and agrees that only those participants effectively meeting requirement a) may board the aircraft.

It undertakes to supply the aviation administration with a passenger list in alphabetical order before the departure together with copies of all publication or circulars of the association concerning the flight.

Signature and date

(1) Such members may be accompanied by their spouses and/or dependent children.

**GEN 1.3 ENTRY, TRANSIT AND DEPARTURE OF PASSENGERS AND CREW****1. Immigration/Emigration requirements for passengers****1.1 Control of Persons**

Immigration/emigration requirements in accordance with the origin or destination area of flights as follows:

- States applying Schengen Agreement.

The Schengen Agreement is effective for the following countries: Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Switzerland, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain and Sweden.

Application of the agreement abolishes passengers inspection at the inner borders of the states mentioned above.

As air traffic concerns, it implies that passengers from flights between the above mentioned states (SCHENGEN SPACE) are not submitted to passport control (immigration/emigration).

The Schengen Agreement affects both public and private aerodromes.

All information related to the Schengen Agreement, affecting aircraft operators and airport users in general, may be obtained directly at each airport or from Serviço de Estrangeiros e Fronteiras (see GEN 1.1.4)

- Rest of states

The outer borders of states applying the Schengen Agreement can only be crossed by the frontiers passages so entitled (Air frontiers see AD 1.3).

Flights coming from or leaving for states where the Schengen Agreement does not apply (rest of E.U. and rest of the world) will be subject to a control of persons (immigration/emigration).

**1.2 Control of crew**

The holder of a pilot licence or a crew membership card in accordance of those defined in Annex 9 of the Agreement on Civil Aviation, dated July 2002, will be exempted of presenting a passport or visa whenever, on duty:

- He remains at the airport where the aircraft has stopped over.
- He remains at the destination airport.
- He remains within the airport territorial demarcation, or
- He leaves the airport to head solely for another airport located within the contracting party.

**2. Customs requirements**

According to the origin or destination of flights the customs requirements are:

**2.1 European Union (EU)**

Registered luggage control and formalities are abolished for passengers in flights between States of the European Union unless that passengers of the intra-community flight comes from a third country.

**2.2 Rest of the world**

Those luggage that having been checked in an airport not belonging to the EU are transferred to an aircraft accomplishing an intra-community flight can only be dispatched at international community airports (see AD 1.3)

As to customs control regards, baggage or articles belonging to disembarking passengers are immediately released except for those selected by the customs authorities for inspection. Such baggage will be dispatched on the basis of the passenger's oral declaration.

When appropriate, in accordance with customs regulations, payment of custom charges and the deposit thereof should be in EUROS currency and at the official rate of exchange.

No customs formalities are normally required on departure. However, money or currency is not allowed to be taken out of Portugal if it exceeds the provisions laid down in the legalization of Exchange Control; with reference to works of art, archeology, ethnography, antiques, etc. special authorizations are required.

When baggage is confirmed to include articles which are likely to be "commercial expedition" because of its entity or quantity, these articles should only be allowed to leave the country under special regulations and with the appropriate authorization issued by the authorities of trade, if such authorization is required.

**2.3** Customs requirements for crew members

Baggage or articles belonging to disembarking crew are immediately released except for those selected by the customs authorities for inspection. Such baggage will be cleared on the basis of the oral declaration of the crew.

**3. Health requirements**

**3.1** Departures, traffic or arrivals

The pilot in command or his official representative, when landing at the first aerodrome within a territory, shall fill in and submit to the airport health authority the health part of the General Aircraft Declaration, in the cases established by the authority according to the International Health Regulations mode.

The pilot in command or his official representative shall provide all data required by the health authority related to the sanitary conditions during the flight.

All aircraft coming from an airport located within an area where malaria or any other mosquito transmitted disease exists, will be subject to disinsection.

The airport health authorities may require the sanitary inspection of the aircraft, containers and persons arriving in a international flight.

On an aircraft arrival, the health authority may order the disembark and isolation of any infected person, as well as to keep under surveillance anyone suspicious of being infected.

The entry or exit of corpses will be notified by the health authority in order to carry out the established legal proceedings.

The hand luggage containing more than 1 KG in weight of products of animal origin shall comply the veterinary regulations in force within the EU.

**3.2** Relevant Legislation

- Strasbourg Agreement about corpses transference, dated October 26 1973. EU rules n°, 3925/91, 19th December Customs,



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**GEN 1.7 Differences From ICAO Standards, Recommended Practices And Procedures**


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**1. Differences From ICAO Standards, Recommended Practices And Procedures**

Title	Reference		Difference(s)
<b>Annex 1 - Personnel Licensing</b> 14th Edition Amendment 178			NIL
<b>Annex 2 - Rules of the Air</b> 10th Edition Amendment 46	Chapter 3	3.2.2	New Provision. Implementing Regulation (EU) No 923/2012, SERA.3210(b), specifies:  '(b) An aircraft that is aware that the manoeuvrability of another aircraft is impaired shall give way to that aircraft;'
		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) Sailplanes overtaking. A sailplane overtaking another sailplane may alter its course to the right or to the left.'
		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 underlined text):  '(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, as far as practicable;'
		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:  '(c) except for balloons, make all turns to the left, when approaching for a landing and after taking off, unless otherwise indicated, or instructed by ATC;  (d) except for balloons, land and take off into the wind unless safety, the runway configuration, or air traffic considerations determine that a different direction is preferable.'
		3.3.1.2	ICAO Annex 2, 3.3.1.2 is replaced with point SERA.4001(b) of Implementing Regulation (EU) No 923/2012. The differences between that ICAO Standard and that Union regulation are as follows: — With regards to VFR flights planned to operate across international borders, the Union regulation (point SERA.4001(b)(5)) differs from the ICAO Standard in Annex 2, 3.3.1.2(e) with the addition of the underlined text, as follows: 'any flight across international borders, <u>unless otherwise prescribed by the States concerned.</u> ' —With regard to VFR and IFR flights planned to operate at night, the following requirement is added to point SERA.4001(b)(6) of that Union regulation: “(6) any flight planned to operate at night, if leaving the vicinity of an aerodrome”.
		3.8 and Appendix 2	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.

Title	Reference		Difference(s)
	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>'(f) Except when necessary for take-off or landing, or except by permission from the competent authority, a VFR flight shall not be flown:</p> <ol style="list-style-type: none"> <li>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;</li> <li>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.'</li> </ol>
<b>Annex 3 - Meteorological Services</b> 20th Edition Amendment 80	Part I Chapter 4	4.6.5.2	<p>Cloud observations for local routine and local special reports are representative of the aerodrome and its vicinity. Remark: By agreement with ATS.</p>
	Part I Chapter 5		<p>New provision. Implementing Regulation (EU) No 923/2012. Paragraph SERA.12005, specifies:</p> <p>'(b) Competent authorities shall prescribe as necessary other conditions which shall be reported by all aircraft when encountered or observed.'</p>
	Part I Chapter 7	7.4	<p>The wind-shear warning is not issued. Remark: Wind-shear information is included in METAR, SPECI and local reports by agreement with ATS.</p>
	Part II Appendix 3	4.1.5.1	<p>In MET REPORT and SPECIAL the wind direction is reported in magnetic degrees. Remark: By request of ATS.</p>
	Part II Appendix 6	5.1.1	<p>Aerodrome warning is not issued in accordance with template A6-2. Remark: By agreement with aerodromes operators.</p>
<b>Annex 4 - Aeronautical Charts</b> 11th Edition Amendment 61	Chapter 20		<p>Electronic Aeronautical Chart Display - ICAO is not published</p>
<b>Annex 5 - Units of Measure</b> 5th Edition Amendment 17	Chapter 1	Candela	<p>More exacting or exceeds. Decree Law 128/2010 "The candela is the luminous intensity, in a given direction, of a source which emits monochromatic rays with a frequency of <math>540 \times 10^{12}</math> Hz and whose energy intensity in that direction is 1/683 watt per steradian. (sixteenth CGPM (1979), resolution 3)."</p>
<b>Annex 6 - Operations of Aircraft</b> Part I 12th Edition Amendment 48			<p>NIL</p>
<b>Annex 6 - Operations of Aircraft</b> Part II 11th Edition Amendment 40			<p>NIL</p>
<b>Annex 6 - Operations of Aircraft</b> Part III 11th Edition Amendment 24			<p>NIL</p>
<b>Annex 7 - Aircraft Nationality and Registration Marks</b> 6th Edition Amendment 7			<p>NIL</p>

Title	Reference		Difference(s)
Annex 8 - Airworthiness of Aircraft 13th Edition Amendment 109	Part I Chapter 1	Anticipated operation conditions	Not implemented
		Approved	Not specifically defined
		Configuration (as applied to the aeroplane)	Not implemented Remark: The ICAO definition is relied upon.
		Human Factors principles	EASA regulation is relied upon this definition. Remark: EASA has included in the rule making inventory a task MDM.035 grouping of various human factor tasks.
		Human performance	EASA regulation is relied upon this definition. Remark: EASA has included in the remaking inventory a task MDM.035 grouping of various human factor tasks. A plan to take into account human factors into design will be proposed by an Advance NPA.
		Power-unit	EASA relies on the definition of engines.
		Rendering (a certificate of Airworthiness) valid	Regulation 1702/2003 requires that a certificate of airworthiness is issued.
		State of Design	EASA Part 21 defines principal place of business.
		State of Manufacture	EASA Part 21 defines principal place of business.
	Part II Chapter 3	3.2.5	Not applicable Remark: Part 21 requires the issue of certificate of airworthiness by Member States.
		3.6.1	Assessment also allowed by DOA under procedure agreed with Agency
	Part III Chapter 2	2.2.3	Scheduling of landing distance with runway slope is not required. Performance is not scheduled for variations in water surface conditions, density of water and strength of current. Remark: CS/JAR-23 complies except that performance is not scheduled for variations in water surface conditions, density of water and strength of current. CS/JAR 23.237 requires that the allowable water surface conditions and any necessary water handling procedures for seaplanes be established. However, factors on landing distance are applied by operational rules, where appropriate. ACTION: put in rule making inventory.
	Part III Chapter 2	2.3.4.1	Stall testing with one power unit inoperative is not requested. Remark: Any issues with stall warning with one engine inoperative would be apparent from the evaluation of the design and during OEI flight testing, especially during evaluation of the manoeuvring margin at V2. This latter test is carried out by EASA with asymmetric power.

Title	Reference		Difference(s)
	Chapter 3	3.4	CS 25 does not contain specifications for water loads but large flying-boats are not under developments. Would this happen EASA would develop the necessary special conditions in accordance to Part-21.
	Chapter 4	4.1	The added sentence "They shall also observe human factors principles" is not fully complied with. Remark: NPA 15/2004 relative to Flight Crew Error/Flight Crew Performance Considerations in the Flight Deck Certification process has been published and CS-25 has been updated in 2007.EASA has included in the rule making inventory a task MDM.035 grouping of various human factor tasks. A plan to take into account human factors into design will be proposed by an Advance NPA that should be circulated during the second quarter of 2008.There is also a JAA interim policy (INT/POL/25/14) for large aeroplanes that has also been used by EASA.
4.1.6		Protection against explosive and incendiary devices is not requested. Remark: Partially implemented for paragraphs (b), (g), (h) and (l).Work to address this, based on the output of the Design for Security Harmonization WG should lead to an NPA in 2009 and a modification to CS-25 by end 2009.	
	Chapter 9	9.2.4	Not requested by CS-25 and CS-23. Remark: Paragraph X1524 was deleted from JAR-25 and is not in CS-25. The deletion was done to harmonize with FAR-25 and the rationale was that the paragraph did not add further requirements compared to FAA practice.
9.3.5		Not covered. Remark: Work to address this, based on the output of the Design for Security Harmonization WG should lead to an NPA by first quarter of 2009 and a modification to CS-25 by end 2009.	
	Chapter 11	11.2	Not yet covered by CS-25. Remark: Work to address this, based on the output of the Design for Security Harmonization WG should lead to an NPA in 2009 and a modification to CS-25 end 2009.
11.4		Not implemented. Remark: Work to address this, based on the output of the Design for Security Harmonization WG should lead to an NPA in 2009 and a modification to CS-25 end 2009.	
Part III B Subpart B	B.2.7		Scheduling of landing distance with runway slope is not required. Performance is not scheduled for variations in water surface conditions, density of water and strength of current.Also accountability for worn brakes (B.2.7 (d) and (e)) is covered by CS-25 but not by CS-23. Remark: CS/JAR-23 complies except that performance is not scheduled for variations in water surface conditions, density of water and strength of current. CS/JAR 23.237 requires that the allowable water surface conditions and any necessary water handling procedures for seaplanes be established. However, factors on landing distance are applied by operational rules, where appropriate.

Title	Reference		Difference(s)
	Subpart C	C.7	<p>Only bird impact on windshield is required for CS-23 Commuter.</p> <p>Ditching seems required:</p> <p>Ditching certification not required for CS-23 and CS-25</p> <p>Remark: CS-23 Jet requirements are under development by EASA that may remove both the bird impact and ditching difference for applicable CS-23 Jet types. Note that the current CS 25.807(e) requires provision of ditching emergency exits for passengers whether or not certification with ditching provisions is requested.</p>
	Subpart D	D.1.3	<p>The last sentence "the effect on the occupant of the aeroplane and other persons on the ground, and the environment in general, in normal and emergency situations, shall be taken into account" is covered by certification for occupants of the aeroplane. (Crash survivability, fumes) For other matters in general, refer to European directive.</p>
		D.2	<p>(a) (b), (g), (h) and (i)</p> <p>Protection against explosive and incendiary devices is not requested. Prevention of mis-assembly is not covered by CS-25.</p> <p>Remark: Work to address protection against explosive and incendiary devices, based on the output of the Design for Security Harmonization WG should lead to an NPA in 2009 and a modification to CS-25 by end 2009.</p>
	Subpart F	F.1.1	<p>The sentence "Instrument and equipment shall also observe human factors principles" is not fully complied with.</p> <p>Remark: NPA 15/2004 relative to Flight Crew Error/Flight Crew Performance Considerations in the Flight Deck Certification Process has been published and has been incorporated into CS-25 amendment 3. EASA has included in the 2008 advance rule making planning a task MDM.035 grouping of various human factor tasks. A plan to take into account human factors into design will be proposed by an Advance NPA that should be circulated during the second of 2008. There is also a JAA interim policy (INT/POL/25/14) for large aeroplanes that has also been used by EASA.</p>
		F.5	<p>Not implemented.</p> <p>Remark: Work to address this, based on the output of the Harmonization WG is in the inventory Interim Policies developed by JAA for small and large aeroplanes are also notified by EASA as special conditions.</p>
	Subpart G	G.2.5	<p>Not required by CS-25</p> <p>Remark: Paragraph X1524 was deleted from JAR-25 and is not in CS-25. The deletion was done to harmonize with FAR-25 and the rationale was that the paragraph did not add further requirements.</p>
		G.3.5	<p>Not implemented.</p> <p>Remark: Work to address this, based on the output of the Design for Security Harmonization WG should lead to an NPA in 2009 and a modification to CS-25 by end 2009.</p>
	Subpart I	I.1	<p>The paragraph states: "developments in the subject of crash worthiness shall be taken into account in the design of aeroplanes to improve the probability of occupant survival"</p> <p>This is not covered.</p> <p>Remark: The statement looks like a principle for rule making. It is not covered, except may be in the case of new design that are certified using special conditions. A comparable principle, not only limited to Crash worthiness may be found in Article 5.5 and article 14 of the EASA Basic Regulation 1592/2002, repealed by EC regulation 216/2008.</p>

Title	Reference		Difference(s)
	Subpart K	K.2, K.3.1 and K.4	Not implemented. Remark: Work to address this, based on the output of the Design for Security Harmonization WG should lead to an NPA by 2009 and a modification to CS-25 by end 2009.
	Part IV Chapter 2	2.2.3.2	b) not implemented. Remark: En-route performance is based on climb performance both for all engines operating and one engine inoperative situations. The case of the two critical power units inoperative for helicopters having three or more engines is not addressed. Concerns only helicopters with 3 or more engines. This standard has been reviewed and found to offer no safety benefit. It has therefore been removed from Part IVB (Amendment 100) and hence the identified difference will also be removed for helicopters certified after December 2007.
	Chapter 4	4.1	The sentence "They shall also observe human factors principles" is not fully complied with. Remark: EASA has included in the rule making inventory a task MDM0.35 grouping of various human factor tasks.
4.1.6		f) Depressurization not covered.	
4.1.8		Not implemented	
	Chapter 7	7.1	The sentence "They shall also observe human factors principles" is not fully complied with. Remark: EASA has included in the rule making inventory a task MDM0.35 grouping of various human factor tasks.
	Subpart C	C.8.2	Anticipated operating conditions not defined in CS regulations.
	Subpart D	D.7	Ground Handling is not formally addressed by CS-27 and CS-29. Other means of compliance; see comments. Remark: Ground Handling is not addressed by CS-27 and CS-29 as it could be with CS-25 within 25.499, 25.509 and 25.519 (towing jacking). However, § 27.497 or 29.235 define taxiing conditions. The instructions for continued airworthiness in appendix A A27.3(a) (4) asks for description of jacking. Therefore, there are some precautions identified and to be provided by TCH. It is considered 'no difference' although it could be improved in the future.
	Subpart F	F.1.1	Human factors not formally addressed, but are in practical covered by many areas.
		F.5	Not implemented. Remark: However this issue is addressed by generic special conditions ensuring an equivalent level of safety to ICAO Annex 8 by other means. The Agency has included in its inventory a rule making task to address the issue (Task MDM.024)
	Part V Subpart F	F.5	Not covered by CS-23 Remark: This issue is not covered by the present CS-23.
<b>Annex 9 - Facilitation</b> 16th Edition Amendment 29			NIL
<b>Annex 10 - Aeronautical Telecommunications</b> Volume I 8th Edition Amendment 93			NIL

Title	Reference		Difference(s)
<b>Annex 10 - Aeronautical Telecommunications</b> Volume II 7th Edition Amendment 92	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:            SERA.14035 Transmission of numbers in radiotelephony</p> <p>a. Transmission of numbers</p> <ol style="list-style-type: none"> <li>1. 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>i. Flight levels shall be transmitted by pronouncing each digit separately except for the case of flight levels in whole hundreds.</li> <li>ii. 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>iii. 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>2. 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>3. 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>4. 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>5. 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>6. 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.</li> </ol>

Title	Reference		Difference(s)
		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.
<b>Annex 10 - Aeronautical Telecommunications</b> Volume III 2nd Edition Amendment 91			NIL
<b>Annex 10 - Aeronautical Telecommunications</b> Volume IV 5th Edition Amendment 91			NIL
<b>Annex 10 - Aeronautical Telecommunications</b> Volume V 3rd Edition Amendment 89			NIL



Title	Reference		Difference(s)
<b>Annex 11 - Air Traffic Services</b> 15th Edition Amendment 52	Chapter 2	2.6.1	Exemption possibility. Implementing Regulation (EU) No 923/2012 paragraph SERA.6001 allows aircraft to exceed the 250 KT speed limit where approved by the competent authority for aircraft types, which for technical or safety reasons, cannot maintain this speed.
		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 at least to the nearest minute'
	Chapter 3	3.3.4	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 and agreed by the pilot of the other aircraft 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 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.
		3.7.3.1	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 underlined text):  (e) Read-back of clearances and safety-related information 1. 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, taxi and backtrack on any runway; and iii. runway-in-use, altimeter settings, SSR codes, newly assigned communication channels, level instructions, heading and speed instructions; and iv. transition levels, whether issued by the controller or contained in ATIS broadcasts.

Title	Reference	Difference(s)
	Chapter 3	<p>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 underlined text):</p> <p>(2) Other clearances or instructions, including conditional clearances and taxi instructions, shall be read back or acknowledged in a manner to clearly indicate that they have been understood and will be complied with.</p> <p>New provision. Point SERA.5010 of Implementing Regulation (EU) No 923/2012 specifies:</p> <p>'SERA.5010 Special VFR in control zones</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, medical flights, search and rescue operations and fire-fighting, the following additional conditions shall be applied:</p> <p>(a) such flights may be conducted during day only, unless otherwise permitted by the competent authority;</p> <p>(b) by the pilot:</p> <p>(1) clear of cloud and with the surface in sight;</p> <p>(2) the flight visibility is not less than 1 500 m or, for helicopters, not less than 800 m;</p> <p>(3) fly at a 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</p> <p>(c) 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:</p> <p>(1) the ground visibility is less than 1 500 m or, for helicopters, less than 800 m;</p> <p>(2) the ceiling is less than 180 m (600 ft).'</p>
<p><b>Annex 12</b> - Search and Rescue 8th Edition Amendment 18</p>		NIL
<p><b>Annex 13</b> - Aircraft Accident Investigation 12th Edition Amendment 18</p>		<p>No absolute guarantee can be given that the records will not be disclosed for other than accident purposes, as Portuguese legislation determines its disclosure to the Portuguese Courts, whenever the Judicial Authority considers that their disclosure outweighs the adverse effects on the investigation process. All practical steps will be taken to minimize the extend and occurrence of such disclosures.</p>
<p><b>Annex 14</b> Volume I - Aerodrome Design and Operations 9th Edition Amendment 17</p>	1.3.1, 1.3.2, 1.3.3.1 and 1.3.3.2	No national legislation.
<p><b>Annex 14</b> Volume II - Heliports 5th Edition Amendment 9</p>		NIL

Title	Reference		Difference(s)
<b>Annex 15 - Aeronautical Information Services</b> 16th Edition Amendment 42	Chapter 1	1.2.2.2 and 1.2.2.3	The geoid model for all coordinates published in Portuguese AIP cannot be confirmed as being EGM-96.
	Chapter 3	3.2.1, 3.2.2 and 3.2.3	No evidence can be provided so far that aeronautical information/data meets the quality levels as laid down by ICAO.
	Chapter 4	4.2	Metadata not yet fully compliant.
	Chapter 5	5.3	Electronic terrain data set is provided only for Area 1 but some attributes of obstacles data are missing.
Annex 16 - Environmental Protection Volume I 8th Edition Amendment 14			NIL
Annex 16 - Environmental Protection Volume II 5th Edition Amendment 10			NIL
Annex 16 - Environmental Protection Volume III 1st Edition Amendment 2			NIL
Annex 16 - Environmental Protection Volume IV 2nd Edition			NIL
Annex 17 - Security 12th Edition Amendment 18			NIL
<b>Annex 18 - The Safe Transport of Dangerous Goods by Air</b> 4th Edition Amendment 12			NIL
Annex 19 - Safety Management 2nd Edition Amendment 1			NIL

## 2. European Commission Regulation (EU) NR 73/2010

The Process of establishing national provisions to completely achieve the aeronautical data quality requirements in accordance with Commission Regulation (EU) NR 73/2010 is in progress. Accordingly, all aeronautical data and information published in Portugal AIP shall be considered as not compliant with European Commission Regulation (EU) NR 73/2010, until all the requirements defined in mentioned regulation have been met.

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NPA	Non-precision approach	QDM	Magnetic Heading (zero wind)
NR	Number	QDR	Magnetic bearing
NS	* Non-schedule	QFE	Atmospheric pressure at aerodrome elevation (or at runway threshold)
NTL	National	QNH	Altimeter sub-scale setting to obtain elevation when on the ground
NUCp	* Navigation Uncertainty Category for Position		
NVO	* Normal Visibility Operations		
NW	North-west		

**R**

	<b>O</b>	R	Right (preceded by runway designation number to identify a parallel runway)
OAC	Oceanic area control centre	R	Red
OBST	Obstacle	R	Received (acknowledgement of receipt) (to be used in AFS as a procedure signal)
OCA	Obstacle clearance altitude	R...	Restricted area (followed by identification)
OCA	Oceanic control area	R...	Runway followed by figures in METAR/SPECI
OCD	* Oceanic Clearance Delivery		
OCH	Obstacle Clearance Height	R...	Radial (from VOR followed by three figures)
OCL	* Obstacle Clearance Limit	RAC	Rules of the air and air traffic services
OCL	* Oceanic Clearance	RAD	* Route Availability Document
OCT	October	RADAR	* Radio Detection and Ranging
OFZ	Obstacle free zone	RAG	Runway arresting gear
OK	We agree or it is correct (to be used in AFS as a procedure signal)	RALT	* Route Alternative
OLDI	On-line data interchange	RAIM	Receiver autonomous integrity monitoring
OM	Outer marker	RCC	Rescue coordination centre
OPMET	Operational meteorological (information)	RCD	* Request for enroute clearance downlink
OPR	Operator or operate or operative or operating or operational	RCF	Radio communication failure (message type designator)
OPS	Operations	RCR	* Runway condition report
ORGN	* Originator of the flight plan	RCLL	Runway centre line light(s)
OTR	* Other	RCP	Required communication performance
OTS	Organized track system	RDH	Reference Datum Height (for ILS)
OUBD	Outbound	RDL	Radial
OWAFS	* Operations without assigned fixed speed	RDO	Radio

**P**

P	* Personal Consultation	REG	Registration
P	* Prognostic Upper Air Chart	REP	Report or reporting or reporting point
P	* Private	REQ	Request or requested
P	* Provided	RESA	Runway end safety area
PALS	Precision approach lighting system (specify category)	RET	* Rapid Exit Taxiway
PANS	Procedures for air navigation services	RETIL	* Rapid Exit Taxiway Indicator Lights
PAPI	Precision approach path indicator	RF	Constant radius arc to a fix
PAR	Precision approach radar	RFF	* Rescue and Fire Fighting
PATC	Precision approach terrain chart (followed by name/title)	RFFS	Rescue and Fire Fighting Services
PAX	Passenger(s)	RFP	* Replacement Flight Plan (related to ATFM)
PBN	Performance-based navigation	RIB	* Rigid Inflatable Boat
PCN	Pavement classification number	RIF	Reclearance in flight
PDG	Procedure design gradient	RMK	Remark
PER	Performance	RNAV	(to be pronounced "AR-NAV") Area navigation
PERM	Permanent	RNP	Required Navigation Performance
PIB	Pre-flight information bulletin	RNP-AR	* Required Navigation Performance - Authorization Required
PL	*Abbreviated Plain Language Texts	ROC	Rate of climb
PN	Prior notice required	RP	* Recommended Practice
POB	Persons on board	RRP	Rerouting Proposal Message
POS	* Position Report	RSC	Rescue sub-centre
PPR	Prior permission required	RTE	Route
PS	Plus	RTF	Radiotelephone
PSP	Polícia de Segurança Pública	RTIL	* Runway Threshold Identification Lights
PT	* Portuguese	RVR	Runway visual range
PTN	Procedure turn	RVSM	Reduced Vertical Separation Minimum
PWR	Power	RWY	Runway

**S**

**Q**

s	* Seconds
S	South or southern latitude

S	* Surface Analysis (Current Chart)	SVC	Service (message type only)
S	* Schedule	SW	South-west
SALS	Simple approach lighting system	SWH	* Significant Weather High Chart
SAM	* Slot Allocation Message	SWM	* Significant Weather Medium Chart
SAR	Search and rescue	SWM	* Sip Wanted Message
SAT	Saturday	SWY	Stopway
SATCOM	Satellite communication (used only when referring generally to both voice and data satellite communication or only data satellite communication)	SYNOP	* Surface Synoptic Observations
<b>T</b>			
SATEL	* Satellite Image	T	True (preceded by a bearing to indicate reference to True North)
SATVOICE	Satellite Voice communication	T	* Telephone
SB	Southbound	T-VASIS	T-Visual Approach Slope Indicator System
SBA	* Aerodrome brigade service	TAA	Terminal arrival Altitude
SBAS	Space Based Augmentation System	TACAN	UHF tactical air navigation aid
SBSLCI	* Basic service of rescue and firefighting	TACT	* CFMU Tactical
SDF	Step Down fix	TAF	Aerodrome forecast
SE	South-east	TALT	* Take-off alternate aerodrome(s)
SEC	Seconds	TAS	True airspeed
SEL	* Selcal Code	TAWS	* Terrain Awareness and Warning System
SELCAL	Selective calling system	TBN	* To Be Notified
SEP	September	TCAS	* Traffic alert and collision avoidance system
SERA	* Standardised European Rules of the Air	TCH	Threshold crossing height
SFC	Surface	TCP	* Transfer Control Point
SID	Standard instrument departure	TDZ	Touchdown zone
SIGMET	Information concerning en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations	TEL	Telephone
		TERPS	* Terminal Procedures
SIGWX	* Significant weather	TF	Track to fix
SIL	* Surveillance integrity level	TFC	Traffic
SMA	* Schedule Movement Advice	TGL	Touch-and-go landing
SIP	* Slot Improvement Proposal Message	TGS	Taxiing guidance system
SITA	* Société Internationale des Telecommunications Aeronautiques	THR	Threshold
		THRU	Through
SIWL	Single isolated wheel load	THU	Thursday
SLC	* Slot Cancellation Message	TIL	Until
SMC	Surface movement control	TKOF	Take-off
SMR	Surface movement radar	TLOF	Touchdown and lift-off area
SNOWTAM	A special series NOTAM notifying the presence or removal of hazardous conditions due to snow, ice, slush or standing water associated with snow, slush and ice on the movement area, by means of a specific format	TMA	Terminal control area
		TOBT	* Target Off-Block Time
SOP	* Standard operating procedure	TODA	Take-off distance available
SPA	* Slot Improvement Proposal Acceptance Message	TOGA	* Take-off Go Around
		TORA	Take-off run available
SPECI	Aviation selected special weather report (in aeronautical meteorological code)	TR	Track
		TRA	Temporary reserved airspace
SPECIAL	Special meteorological report (in abbreviated plain language)	TRMZ	* Transponder Radio Mandatory Zone
		TSAT	* Target Start-Up Approval Time
SR	Sunrise	TUE	Tuesday
SRA	Surveillance radar approach	TWR	Aerodrome control tower or aerodrome control
SRJ	* Slot Improvement Proposal Rejection Message	TWY	Taxiway
		TYP	Type of aircraft
SRM	* Slot Revision Message	<b>U</b>	
SRR	Search and rescue region	UFN	Until further notice
SS	Sunset	UHF	Ultra high frequency [300 to 3 000 MHz]
SSE	South-south-east	UIR	Upper flight information region
SSR	Secondary surveillance radar	ULM	Ultra Light motorized Aircraft
SST	Supersonic transport	UNHCR	* United Nations High Commissioner for Refugees
SSW	South-south-west	UNL	Unlimited
STAR	Standard instrument arrival	UPR	* User-preferred route
STS	Status	UTC	Coordinated Universal Time
SUN	Sunday	<b>V</b>	
SUP	Supplement (AIP Supplement)		
SUPPS	Regional supplementary procedures		
SUR	* Surveillance Equipment		

VAC	Visual approach chart (followed by name/title)
VALC	* Visual Approach and Landing Chart
VAR	* Magnetic variation
VASIS	Visual approach slope indicator systems
VET	* Veterinary
VFR	Visual flight rules
VHF	Very high frequency (30 to 300 MHz)
VIS	Visibility
VLR	Very long range
VM	Heading to a manual termination
VMC	Visual meteorological conditions
VNAV	Vertical navigation (to be pronounced VEE_NAV)
VOLMET	Meteorological information for aircraft in flight
VOR	VHF omnidirectional radio range
VORTAC	VOR and TACAN combination
VRB	Variable
VSS	* Visual segment surface
VTOF	* Visual Take-off

**W**

W	West or western longitude
W	White
W	* Significant Weather Chart
WRNG	Warning
WBAR	Wing bar lights
WDI	Wind direction indicator
WED	Wednesday
WGS-84	World Geodetic System - 1984
WID	Width or wide
WILCO	Will comply
WIP	Work in progress
WNW	West-North-West
WPT	Way-point
WT	Weight
WWW	Worldwide web
WX	Weather
WXR	Weather Radar

**X (NIL)****Y**

Y	Yellow
YES	Yes (affirmative) (to be used in AFS as a procedure signal)

**Z (NIL)**

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**GEN 3.6 SEARCH AND RESCUE****3.6.1 Responsible service**

The Search and Rescue Services in Portugal are organized in accordance with International Standards and Recommended Practices of ICAO, and overall responsibilities for making available the necessary facilities rest with the Air Force and Navy authorities.

**1. Rescue Coordinated Centres****1.1 Rescue Coordination Centre LISBOA (RCC LISBOA)**

POSTAL ADDRESS: RCC LISBOA - Comando Aéreo  
Avenida Tenente Martins - Monsanto  
1500-589 Lisboa  
Portugal

TELEGRAPHIC ADDRESS: (Aeronautical) LPAMYCYX

TELEPHONE NUMBERS: +351 217708207/205 (OPS Duty Officer - H24)  
+351 217708101 (RCC Chief)  
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+351 217716000 (General)

FAX: +351 217708134 - (OPS Duty Officer - H24)  
+351 217708176 - (RCC working days 09:00-17:00 (08:00-16:00))  
+351 217716024 - (COMCEN CA)

EMAIL: rcclisboa@emfa.pt

SEARCH AND RESCUE REGION: LISBOA SRR

RESPONSIBLE AGENCY OR DEPARTMENT: FORÇA AÉREA PORTUGUESA / CA

NAME AND LOCATION OF RESCUE SUB-CENTRE: NIL

REMARKS: DIRECT LINE BETWEEN RCC AND LISBOA ACC

RESCUE UNITS			
NAME	LOCATION	FACILITIES	REMARKS
a	b	c	d
OVAR - LPOV	405513N 0083838W	1 A119 (HEL - L)	Only to 5NM from coast line
BEJA - LPBJ	380444N 0075557W	1 P3 (ELR)	KIT SAR
MONTIJO - LPMT	384218N 0090215W	1 C130 (VLR)	KIT SAR
		1 EH 101 - (HEL-H)	
		1 C295 (LRG)	KIT SAR
LISBOA (Harbour)	384012N 0090848W	2 RESCUE VESSELS	Speed 19 KT Capacity 100 persons
FUNCHAL (Santa Cruz Harbour)	323830N 0165454W	1 RESCUE VESSEL	Speed 20 KT Capacity 50 persons
PORTO SANTO (Madeira TMA)	330415N 0162059W	1 C295 (LRG)	KIT SAR
		1 EH101 - (HEL-H)	

**1.2 Rescue Coordination Centre LAJES (RCC LAJES)**

POSTAL ADDRESS: RCC LAJES  
Estrada do Juncal, porta da BA4  
9760-402 Praia da Vitória  
Ilha Terceira, Açores  
Portugal

TELEGRAPHIC ADDRESS: (Aeronautical) LPLAYCYX  
 TELEPHONE NUMBERS: +351 295540515 (working days 09:00/17:00 (08:00/16:00))  
 Duty Officer (Mobile): +351 919552341 (H24)  
 Flight OPS Center: +351 295540524 (H24)  
 FAX: NIL  
 EMAIL: czaa\_cmd\_rcc@emfa.pt  
 SEARCH AND RESCUE REGION: SANTA MARIA OCEANIC SRR  
 RESPONSIBLE AGENCY OR DEPARTMENT: FORÇA AÉREA PORTUGUESA / ZONA AEREA DOS AÇORES  
 NAME AND LOCATION OF RESCUE SUB-CENTRE: NIL  
 REMARKS: DIRECT RTF CIRCUITS BETWEEN RCC AND RELATED UNITS

RESCUE UNITS			
NAME	LOCATION	FACILITIES	REMARKS
a	b	c	d
LAJES - LPLA	384543N 0270527W	1 C130 (VLR)	KIT SAR Normally based at Montijo. It will eventually operate from Lajes in order to assure Very-Long-Range search, when necessary.
		1 C295 (LRG)	KIT SAR
		1 EH-101 (HEL-H)	
		1 P3 (ELR)	KIT SAR Normally based at Beja. It will eventually operate from Lajes in order to assure Extra-Long-Range search, when necessary.
PONTA DELGADA (Harbour)	374412N 0253954W	1 RESCUE VESSEL	Speed 19 KT Capacity 100 persons

**2. SSR Codes**

Codes SSR for Lisbon Search and Rescue Region are:

- 7720 to 7727

Applicable ICAO documents:

ICAO Standards, Recommended Practices and Procedures contained in the following documents are applied:

- Annex 10 - Aeronautical Telecommunications, Vol. II
- Annex 12 - Search and Rescue
- Annex 13 - Aircraft Accident Investigation
- Doc 7030 - Regional Supplementary Procedures for Alerting and SAR Services applicable in the EUR and NAT Regions
- Doc 7754 - Air Navigation Plan - European Region
- Doc 8400 - ICAO Abbreviations and Codes
- Doc 8755 - Air Navigation Plan - North Atlantic, North American and Pacific Regions
- Doc 9731 - IAMSAR Manual

**3.6.2 Area of responsibility**

The Search and Rescue Service comprises two Search and Rescue Regions (SRR's):

- The Lisboa Search and Rescue Region which coincides with Lisboa FIR limits as described in ENR 2.1
- The Santa Maria Search and Rescue Region which coincides with Santa Maria Oceanic FIR as described in ENR 2.1 para 2.1.5.

The Rescue Coordination Centre (RCC) for Lisboa Search and Rescue Region is located at the Comando Aéreo which Postal and Telegraphic (AFTN) addresses are given in 3.6.1.1.1 above.

The Rescue Coordination Centre for Santa Maria Search and Rescue Region is located at Lajes Aerodrome, Terceira Island - Açores, which Postal and Telegraphic (AFTN) addresses are given in 3.6.1.1.2 above.

- I. ICAO DOC 4444 - Pans ATM paragraph 15.2
- II. ICAO DOC 7030 - NAT Supplementary procedures

## 15. OCEANIC CLEARANCES PROCEDURES IN SANTA MARIA FIR

### 15.1 GENERAL:

For many year, it has been a requirement for operators in the NAT Region to obtain a specific Oceanic Clearance to operate within the region. This procedure was introduced to enable safe and efficient handling of the large volume of traffic that operated within the NAT procedural oceanic airspace utilizing HF voice communications and large separation standards.

Significant technological advancements in Communication, Navigation and Surveillance have enabled NAT ANSPs to improve safety and services in the NAT Region and further reduce separation minima.

The NAT Systems Planning Group agreed that technology development has reached a point where the oceanic clearance to operate within oceanic airspace will no longer be issued to flight crews prior to reaching Oceanic Entry Point.

However, crews are still required to submit a Request for Clearance message (RCL message) before entering the NAT Region.

More detailed information regarding recommended practices in the NAT Region can be found in the NAT DOC.007 (North Atlantic Operations and Airspace Manual), available at <http://www.icao.int/EURNAT> (EUR and NAT Documents; NAT Documents and NAT OPS Bulletins).

Request for Clearance (RCL message) for flights entering the NAT Region through Santa Maria FIR shall be submitted via the Santa Maria Oceanic Clearance Delivery (OCD) data link service (see ENR 1.1.18 for details on datalink services) or via the available voice services on VHF, HF or SATVOICE (see ENR 2.1.5 for details on frequencies and SATVOICE numbers).

All operators shall submit their Request for Clearance (RCL message) at least 40 minutes before the ETO for the Santa Maria OCA boundary.

Flights departing from aerodromes located in Lisboa FIR, which are close to Santa Maria OCA boundary, shall submit the Request for Clearance (RCL message) as soon as possible after departure.

Flights departing from Azores are exempted from submitting an Request Clearance (RCL message) to Santa Maria OAC. Standard departure clearance procedures shall be applied by the crew and Aerodrome Control Tower.

The RCL message shall include:

- The Oceanic Entry Point and estimated time;
- The requested MACH number, based on FMS cost index (ECON);
- The requested flight level at the Oceanic Entry Point;
- The highest acceptable flight level which can be maintained at the OCA entry and,
- Optionally, any other information deemed important by the crew.

In response to an RCL message, there will be no Oceanic Clearance message sent via ACARS OCD or voice, flight crew must fly what is loaded in the FMS or as amended by ATC. The following message will be sent by Santa Maria OAC, via ACARS OCD or voice, as applicable:

### RCL RECEIVED BY LPPO

The information in the RCL message will be processed as follows:

- The Oceanic Entry Point and estimated time – Used by the controller to update the currently held ATC data;
- The requested MACH number, based on FMS cost index (ECON) - ATC will use the requested Mach speed information as the reference speed for cost index (ECON) operations. The aircraft should continue to operate on FMS cost index (ECON) unless it is assigned a fixed Mach speed by ATC. ATC must be advised if the speed changes by Mach 0.02 or more from the requested Mach in the RCL;
- The requested flight level at the Oceanic Entry Point - ATC will store the requested flight level information. The aircraft shall not change flight level unless it is cleared for a flight level change by ATC. Flight crews are reminded that a change in flight level can be requested at any time after the Oceanic Entry Point as the traffic situation constantly changes and previously blocked flight levels may become available;

- The highest acceptable flight level which can be maintained at the OCA entry - ATC will store the Max Flight Level Information for traffic planning purposes. If no Max Flight Level is provided, the RCL requested flight level will be considered as the highest acceptable flight level at Oceanic Entry Point;
- Optionally, any other information deemed important by the crew - Information is brought to the attention of the controller.

Flights using ACARS OCD data link service for submitting the RCL message are not required to establish voice communications with Santa Maria RADIO before the FIR boundary, except if specifically instructed to do so.

Pilots are reminded that while outside of Santa Maria FIR and whilst in contact with Santa Maria RADIO, it is mandatory to maintain two way communications with the Control Centre/Radio Station in charge of their flight.

## **16. OPERATIONS WITHOUT ASSIGNED FIXED SPEED (OWAFS) WITHIN SANTA MARIA FIR**

### **16.1 GENERAL**

All aircraft, regardless of FANS equipage, will be eligible for the application of OWAFS in both ATS surveillance and non-surveillance airspace.

Flights entering Santa Maria FIR are expected to be flying either a fixed Mach or an FMS cost index (ECON) speed, depending on the coordination conditions established between the ATS units.

After the aircraft enters Santa Maria FIR, ATC will strive to remove any existing speed restriction although speed control restrictions will be applied as needed, in accordance with ICAO Doc 4444 (paragraph 4.6).

Appropriate flight crew knowledge is required to ensure a thorough understanding of OWAFS policies and procedures especially in regard to responses to standard voice or CPDLC messages relating to speed assignments.

### **16.2 PROCEDURES**

When an aircraft has been cleared on a fixed Mach speed:

- i. Flight crews will not need to request a variable speed, ATC will offer a variable Mach when possible.
- ii. Flight crew abides by ICAO Annex 2 (paragraph 3.6.2.2 b) Deviation from ATC assigned Mach number/indicated airspeed: the appropriate air traffic services unit shall be informed immediately.

If the aircraft then receives RESUME NORMAL SPEED (via CPDLC or Voice), the flight crew no longer needs to comply with a previously issued Mach. However, the flight crew shall advise ATC if, as the result of the RESUME NORMAL SPEED message, they intend to adjust their speed by plus or minus Mach 0.02 or more from their last assigned speed.

### **16.3 PHRASEOLOGY**

The following standard phraseology shall be used between ATC and flight crew:

- i. To clear aircraft on a fixed speed:
  - a. Voice: MAINTAIN MACH (number)
  - b. CPDLC: SPDU-4/UM106: MAINTAIN (speed)
- ii. To remove the speed restriction:
  - a. Voice: RESUME NORMAL SPEED
  - b. CPDLC: SPDU-13/UM116: RESUME NORMAL SPEED
- iii. Response to a pilot inquiry in order to confirm the RESUME NORMAL SPEED instruction:
  - a. Voice: NO [ATC] SPEED RESTRICTIONS
  - b. CPDLC SPDU-14/UM169 (free text): NO SPEED RESTRICTION

## **17. POSITION REPORTING IN SANTA MARIA FIR**

### **17.1 POSITION REPORT WAYPOINTS**

Flight crew are expected to report the significant route waypoints loaded in the FMS or as amended by ATC.

### **17.2 VOICE POSITION REPORTS**

**ENR 1.10 FLIGHT PLANNING****1.10.1 Procedures for the submission of flight plan****General**

Lisboa and Santa Maria FIRs are part of the EUROCONTROL IFPS Zone and comply with the procedures and rules of the Network Manager (NM).

As published in the Network Operations Handbook/IFPS Users Manual, Flight Plan and associated messages related to flight under IFR/General Air Traffic (GAT), mixed IFR/VFR or GAT/Operational Air Traffic (OAT) are required to be submitted only to the IFPS.

The submission of VFR Flight Plan shall be made to an appropriate NAV Portugal service, FPL and Briefing or ARO facility (see LPPT, LPPR, LPFR, LPMA or LPPD AD 2.3), which will forward the message to the ATS Units concerned and to other addresses supplied with the Flight Plan.

Messages sent by email to any Portugal ARO units shall only be considered submitted after the reception of their validation by email acknowledgement.

The IFPS will further process, ACK and disseminate the Flight Plan data to the ATS Units concerned within the IFPS Zone and to other addresses supplied with the Flight Plan.

Further details concerning Network Management/IFPS may be obtained, under Network Management, via the EUROCONTROL website:

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

**Time and place of submission**

- **IFR/GAT and mixed IFR/VFR or GAT/OAT Flights**  
Flight Plans shall be submitted at least 60 minutes before EOBT.  
For Flights likely to be subject to ATFM Measures, Flight Plans shall be submitted at least 3hours before EOBT. AO departing within Portugal shall assume their flight is subject to ATFM measures (see ENR 1.9 for further details concerning ATFM).  
Flight Plans may be submitted more than 24hours but not more than 120hours in advance of the EOBT, provided the date of flight is given in Item 18 of the Flight Plan in the format DOF/YYMMDD.
- **VFR Flights**  
All aircraft intending to fly in accordance with VFR Rules within Lisboa or Santa Maria FIR controlled airspace shall submit a Flight Plan at least 30minutes prior to the EOBT.  
The flight plan shall be submitted via FPL and Briefing (<https://fplbriefing.nav.pt>) or to any existing ATS Reporting Office by telephone or email (see AD 2.3).  
Within Lisboa FIR the submission of a Flight Plan by an airborne aircraft (AFIL) shall be transmitted over the General Purpose frequency 127.905 MHZ.

**Special Flight Planning Requirements for Santa Maria FIR**

Operators shall comply with the instructions contained in the ICAO NAT Regional Supplementary Procedures (Doc. 7030 - NAT) and in the North Atlantic Operations and Airspace Manual (NAT Doc. 007), except if otherwise specified herein.

The table of cruising levels published on Appendix 3 of ICAO Annex 2, as well as those published on AIP Portugal, ENR 1.7.5 (Altimeter Setting Procedures) are not applied on Santa Maria Oceanic FIR.

From Santa Maria FIR entry and along the route within the FIR, all levels may be planned 24/7, using 1000ft increments, whatever the direction of the flight. Caution is always recommended regarding the flight level rules applied in the downstream FIRs because flights will always have to exit Santa Maria FIR at the level approved by the following ATC Unit.

Step climbs, cruise climbs, altitude block and route change requests are accepted as part of Santa Maria OAC normal operations. The ATC procedures, upon a request by the pilot, are to always try to provide the requested level and route. The controller decision to authorize a level and/or route change is always dependent of the non-existence of conflicting traffic and the approval from the downstream ATC Unit.

To improve the safety and efficiency in service provision, from 45N013W to 2218N0400W, along Santa Maria's East and South FIR boundaries, all operators shall flight plan to enter and leave the LPPO FIR (SFC - UNL) through the designated FIR boundary points, as published in AIP Portugal ENR 6.01-9 - En-route Chart - Santa Maria Oceanic FIR (LPPO) and ENR 4.4 - Name Code Designators for Significant Points.

With the exception of the recommendation to make use of the existing designated boundary waypoints, within Santa Maria FIR, –non-FANS 1/A equipped flights should flight plan their User-Preferred Route (UPR), with the following restrictions:

1. Flights which generally route in an eastbound or westbound direction should normally be flight planned so that specified ten degrees of longitude (020W, 030W, 040W.) are crossed at whole or half degrees of latitude; and

2. Generally northbound or southbound flights should normally be flight planned so that specified parallels of latitude spaced at five degree intervals (20N, 30N, 35N) are crossed at whole degrees of longitude.

Unrestricted User-Preferred Routes (UPR) are available in Santa Maria FIR airspace above FL285 for FANS-1/A equipped aircraft, taking into account that:

- a. For the flights which generally route in an eastbound or westbound direction it is not mandatory to plan via specified ten degrees of longitude (020W, 030W, 040W);
- b. All generally northbound or southbound flights are not required to be planned at specified parallels of latitude spaced at five degree intervals (20N, 25N, 30N, 35N or 40N);
- c. Flights entering/exiting Santa Maria UPR via Madrid, Lisboa, Canarias, Sal or Piarco shall use a 5LNC waypoint defined at the FIR boundary, as specified in ENR 4.4 of AIP;
- d. Routes north of 45N shall comply with Gander or Shanwick published rules. When entering/exiting Santa Maria FIR from/to Gander or Shanwick FIR, there will be no need to specify the entry/exit point at 45N. However for coordination purposes, routes which are planned from a position in Santa Maria FIR directly to either Gander or Shanwick FIR are required to insert a position, at any latitude along 030W or 020W whichever is closest to the FIR boundary (this does not apply to flights routing on the OTS, on T13 or that do not cross those longitudes inside Santa Maria airspace);
- e. Routes west of 040W shall comply with New York's published rules and the entry/exit point between New York East FIR and Santa Maria FIR shall be planned using any whole or half degree of latitude at 040W;
- f. Inbound traffic to Azores Islands should plan their user-preferred routes from Santa Maria UPR airspace entry point (or if entering Santa Maria from Shanwick or Gander, from the last point inside those FIRs) direct to the STAR initial waypoint or a specific waypoint linked to the destination aerodrome.
- g. Traffic departing from Azores Islands should plan their User-Preferred Routes starting at the appropriate SID final waypoint or a specific waypoint linked to the departure aerodrome, direct to the next appropriate waypoint defined according to rules set above.

Within Santa Maria Oceanic FIR airspace and outside surveillance area (SSR, MLAT or ADS-B, in ENR 1.6.14), to define a way point in field 15 of the flight plan, operators shall not make use of Bearing And Distance From a Navigation Aid nor Bearing and Distance From a Reference Point.

For flights conducted entirely along one of the OTS (Organized Track System), this portion of route shall be defined in field 15 of the Flight Plan by inserting the first track way point, then the abbreviation 'NAT' followed by the code letter assigned to the track and finally the last way point of the track.

Flights wishing to join or leave an organized track at some intermediate point are considered to be random route aircraft and full route details must be specified in the flight plan. The track letter must not be used to abbreviate any portion of the route in these circumstances.

For turbo-jet aircraft operating within Santa Maria FIR, the Mach Number planned to be used shall be specified in the Item 15 of the Flight Plan.

All RNAV 10 (RNP 10) approved aircraft shall insert the letter R in Item 10a of the flight plan and the A1 descriptor in Item 18 of the flight plan, following the PBN/ indicator. All RNP 4 approved aircraft shall insert the letter R in Item 10a of the flight plan and the L1 descriptor in Item 18 of the flight plan, following the PBN/ indicator.

All NAT HLA MNPS approved aircraft shall insert the letter X in Item 10a of the flight plan. All RVSM approved aircraft, regardless of the requested flight level, shall insert the letter W in Item 10a of the flight plan.

All FANS 1/A approved aircraft intending to use data link services shall insert in Item 10a of the flight plan the appropriate descriptor or descriptors (J2, J3, J4, J5, J7) to indicate the CPDLC capabilities and the descriptor D1 on item 10b to indicate ADS-C capability.

All ADS-B approved aircraft shall insert the appropriate descriptor or descriptors in Item 10b of the flight plan.

All aircraft shall insert the aircraft registration in Item 18 of the flight plan, following the REG/ indicator.

All aircraft shall insert the aircraft address (expressed in the form of an alphanumeric code of six hexadecimal characters) in Item 18 of the flight plan, following the CODE/ indicator.

All SATVOICE equipped aircraft and capable of using this communication media shall insert the appropriate descriptor or descriptors in Item 10a of the flight plan.

#### **Instructions for insertion of ATS data**

The EUR RVSM flight planning requirements for the completion of the ICAO Flight Plan Form are contained in the ICAO EUR Regional Supplementary Procedures (Doc. 7030 / 4 - EUR).

Name of station (MAG Variation) (VOR Declination)	ID	Frequency (CH)	Hours of operation	Coordinates	ELEV DME antenna	FRA Relevance / Remarks Legend for FRA Relevance: (E) Horizontal entry point; (X) Horizontal exit point; (I) Intermediate point; (A) Arrival connecting point; (D) Departure connection point.
1	2	3	4	5	6	7
MARÃO DME	DMR	CH 93X	H24	411453N 0075311W	1430 M	NIL / Coverage: 182°/002° 77NM / FL400
MEXILHOEIRA GRANDE DME	DMX	CH 22X	H24	370945N 0083652W	60 M	NIL / Coverage: 100 NM / FL150
MONTARGIL DME	DMT	CH 45X	H24	390438N 0081115W	800FT	FRA (I) / Coverage: 115NM / FL080
MONTE DA GUIA DME	DHT	CH 83X	H24	383112N 0283746W	130M	NIL / Coverage: 100NM / FL500
MONTIJO TACAN	MOJ	CH 37X	H24	384232N 0090201W	100FT	NIL / Coverage: 150NM / FL300
MONTE REAL TACAN	MTR	CH 33X	H24	394957N 0085325W	300FT	NIL / Coverage: 150NM / FL300
MURO DME	DMU	CH 85X	H24	414846N 0081143W	1390M	NIL / Coverage: 125°/305° 82NM / FL400
NISA DVOR/DME (01° W - 2020)	NSA	115.50MHZ CH 102X	H24	DVOR: 393353N 0075453W DME: 393352N 0075453W	1300FT	FRA (I) / Coverage: 000°/180° - 60NM FL500 181°/359° - 200NM FL500 DME unlocks at 37NM on RDL004
PEREIRO DME	DPR	CH 52X	H24	372649N 0073525W	270M	NIL / Coverage: 100 NM / FL150
PORTO DVOR/DME (02° W - 2020)	PRT	114.10MHZ CH 88X	H24	411623N 0084116W DME: 411623N 0084117W	200FT	FRA (I) / Coverage: 225°/315° - 200NM FL500 315°/225° - 80NM FL500 Not usable: 340°/360° BYD 35NM DME unlocks at 26NM on RDL086
PORTO SANTO DVOR/DME (04° W - 2020)	SNT	114.90MHZ CH 96X	H24	DVOR: 330525N 0162102W DME: 330525N 0162101W	400FT	FRA (IAD) / Coverage: 200NM FL500 Not usable: RDL050 BYD 29NM BLW 4000FT RDL066 BYD 31NM BLW 4000FT 070°/170° and 195°/250° BYD 10NM below 9000FT
SALIR DME	DSL	CH 30X	H24	371827N 0075744W	600M	NIL / Coverage: 80NM / FL150
SAGRES DVOR/DME (01° W - 2020)	SGR	113.90MHZ CH 86X	H24	370502N 0085647W	500FT	FRA (I) / Coverage: 250NM FL500
SANTA MARIA VOR/DME (07°W -2020)	VSM	112.00MHZ CH 57X	H24	365746N 0250959W	300FT	NIL / Coverage: 200NM FL500 Not usable 065°/130° BYD 20NM BLW 6000FT

Name of station (MAG Variation) (VOR Declination)	ID	Frequency (CH)	Hours of operation	Coordinates	ELEV DME antenna	FRA Relevance / Remarks Legend for FRA Relevance: (E) Horizontal entry point; (X) Horizontal exit point; (I) Intermediate point; (A) Arrival connecting point; (D) Departure connection point.
1	2	3	4	5	6	7
SAO JORGE DVOR/DME (13° W - 2020)	VAP	113.000MHZ CH 77X	H24	DVOR: 384046N 0280810W DME: 384046N 0280808W	900M	Coverage: 100NM at FL150 DME unlocks at 45NM on RDL135. Not usable: BTN RDL130-RDL140 BYD 35NM BLW 5000FT RDL123 BYD 60NM at 5000FT
SAO MIGUEL DVOR/DME (06°W - 2020)	VMG	111.2MHZ CH 49X	H24	DVOR: 375046N 0254529W DME: 375045N 0254529W	2800FT	Coverage: 150NM- FL500 DVOR: Not usable: 090°/120° BYD 30NM BLW 8000FT. RDL062 BYD 40NM BLW 8000FT. RDL094 excessive VOR needle fluctuations at 12-13NM and 19-24NM BLW 8000FT. DME: Not usable: 170°/190° BYD 40NM BLW 6000FT. DME false ranges and unlocks may occur beyond 92NM at 5500FT.
SINTRA VORTAC	SRA	112.10MHZ CH 58X	H24	384945N 0092024W	500FT	NIL / Coverage: 150NM FL300 Maintenance: Every first working day of the month.
WISEU DVOR/DME (02° W - 2020)	VIS	113.10MHZ CH 78X	H24	DVOR: 404324N 0075309W DME: 404324N 0075310W	2100FT	FRA (I) / Coverage: 200NM FL500 Not usable: 130°/180° BYD 40NM BLW 9000FT 180°/315° BYD 40NM BLW 6000FT 315°/130° BYD 40NM BLW 8000FT DVOR: Excessive needle fluctuation may be observed: RDL 183 between 28-33NM at FL105 RDL 314 between 11-13NM at FL095 DME: RDL 098 BYD 37NM BLW FL105



## ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS

Lateral limits coordinates	Vertical limits	Advisory measures	Authority responsible for INFO	Remarks Time of ACT
1	2	3	4	5
<b>LISBOA</b> 384634N 0090732W	30000M MSL SFC	Radiosonde/Atmospheric Sounding  MAX WID 6.5 M MAX WT 0.3 KG MAX ROC 1000FT/MIN	IPMA - Instituto Português do Mar e da Atmosfera, I.P.  Rua C – Aeroporto de Lisboa 1749-077 Lisboa Tel: +351 218 447 082	Daily 11:15; 23:15  EET 180MIN  Subject to ATC clearance
<b>FUNCHAL ILHA DA MADEIRA</b> 323851.11N 0165332.93W	30000M MSL SFC	Radiosonde/Atmospheric Sounding  MAX WID 6.5 M MAX WT 0.3 KG MAX ROC 1000FT/MIN	IPMA - Instituto Português do Mar e da Atmosfera, I.P.  Rua do Lazareto 37-39 Funchal Tel: +351 291 241 592	Daily 11:15  EET 110MIN  Subject to ATC clearance
<b>LAJES ILHA TERCEIRA</b> 384604.08N 0270513.92W	30000M MSL SFC	Radiosonde/Atmospheric Sounding  MAX WID 6.5 M MAX WT 0.2 KG MAX ROC 1000FT/MIN	IPMA - Instituto Português do Mar e da Atmosfera, I.P.  Rua C – Aeroporto de Lisboa 1749-077 Lisboa Tel: +351 218 447 082	Daily 11:15  EET 110MIN  Activity as per protocol with Portuguese Air Force.
<b>ESTAÇÃO ENA ILHA GRACIOSA</b> 390527.89N 0280134.43W	25000M MSL SFC	Radiosonde/Atmospheric Sounding  MAX WID 4.12 M MAX WT 350 G MAX ROC 1180FT/MIN	Direção Regional da Ciência e Tecnologia  Rua do Mercado Nº21 9500-326 Ponta Delgada Tel: +351 966 425 118	Twice a week, preceded by NOTAM issuance  EET 170MIN  Activity as per protocol with SATA Aerodromes.
<b>ESTAÇÃO ENA ILHA GRACIOSA</b> 390527.89N 0280134.43W	25000M MSL SFC	Radiosonde/Atmospheric Sounding  MAX WID 4.12 M MAX WT 350 G MAX ROC 1180FT/MIN	Direção Regional da Ciência e Tecnologia  Rua do Mercado Nº21 9500-326 Ponta Delgada Tel: +351 966 425 118	Twice a day 11:30UTC and 23:30UTC  EET 170MIN  Activity as per protocol with SATA Aerodromes.

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**ENR 5.4 AIR NAVIGATION OBSTACLES - EN-ROUTE****Definition**

Air navigation obstacles are installations, such as buildings, aerial cableways, power transmission lines, antennas, cables and wires, which may hinder or endanger manoeuvring ACFT or operation for air navigation facilities.

Installations within the safety areas of aerodromes will be regarded as obstacles according to ICAO standards when they project through the Aerodrome-surface as well as if they interfere with the final approach areas or the missed approach areas.

Installations outside of the safety areas of aerodromes will be regarded as obstacles when they project through a surface passing with a vertical separation of 328 FT (100 M) from the terrain level.

**Marking**

Such obstacles to air navigation are marked and/or lighted according to ICAO Recommendations. Transmission lines, aerial cableways, cables and wires, are marked by yellow or orange red spheres of 60 CM diameter at least, with a maximum spacing of 40 M.

**Listing**

The tables on the following pages list lighted and unlighted obstacles known by the civil aviation authorities with a height of 328 FT (100 M) or more above ground.

**Reporting of temporary failure**

If interruption of operation on obstacle lights will occur a NOTAM will be issued.

<b>Designation</b>	<b>Type of obstacle</b>	<b>Coordinates</b>	<b>ELEV/ HGT GND</b>	<b>OBST LGT Type/Colour</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
ABOGALHEIRA (MARCO DE CANAVESES)	AEOLIC PARK (1/2)	411140N 0080234W	1058M / 103M	By day: Flashing white light By night: Fixed Red Light
ABOGALHEIRA (MARCO DE CANAVESES)	AEOLIC PARK (2/2)	411131N 0080232W	1052M / 103M	By day: Flashing white light By night: Fixed Red Light
ACHADA - TORRES VEDRAS	AEOLIC PARK (1/3)	390631N 0091147W	406M / 179M	RED STRIPS Fixed Red
ACHADA - TORRES VEDRAS	AEOLIC PARK (2/3)	390631N 0091137W	419M / 125M	RED STRIPS Fixed Red
ACHADA - TORRES VEDRAS	AEOLIC PARK (3/3)	390631N 0091127W	413M / 125M	RED STRIPS Fixed Red
ACOR I - ARGANIL	WINDMILL (1/11)	401251N 0075308W	1222M / 100M	By Day: Flashing White Light By Night: Fixed Red Light
ACOR I - ARGANIL	WINDMILL (2/11)	401240N 0075255W	1252M / 100M	
ACOR I - ARGANIL	WINDMILL (3/11)	401238N 0075233W	1257M / 100M	By Day: Flashing White Light By Night: Fixed Red Light
ACOR I - ARGANIL	WINDMILL (4/11)	401242N 0075220W	1217M / 100M	
ACOR I - ARGANIL	WINDMILL (5/11)	401250N 0075213W	1182M / 100M	By Day: Flashing White Light By Night: Fixed Red Light
ACOR I - ARGANIL	WINDMILL (6/11)	401256N 0075203W	1188M / 100M	
ACOR I - ARGANIL	WINDMILL (7/11)	401258N 0075155W	1209M / 100M	By Day: Flashing White Light By Night: Fixed Red Light
ACOR I - ARGANIL	WINDMILL (8/11)	401301N 0075107W	1306M / 100M	By Day: Flashing White Light By Night: Fixed Red Light
ACOR I - ARGANIL	WINDMILL (9/11)	401227N 0075118W	1194M / 100M	By Day: Flashing White Light By Night: Fixed Red Light
ACOR I - ARGANIL	WINDMILL (10/11)	401214N 0075120W	1163M / 100M	By Day: Flashing White Light By Night: Fixed Red Light
ACOR I - ARGANIL	WINDMILL (11/11)	401257N 0075324W	1176M / 119M	By day: Flashing white light By night: Fixed Red Light
ACOR II - ARGANIL	WINDMILL (1/8)	401247N 0075052W	1349M / 100M	By Day: Flashing White Light By Night: Fixed Red Light
ACOR II - ARGANIL	WINDMILL (2/8)	401258N 0075052W	1375M / 100M	By Day: Flashing White Light By Night: Fixed Red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ACOR II - ARGANIL	WINDMILL (3/8)	401304N 0075041W	1333M / 100M	
ACOR II - ARGANIL	WINDMILL (4/8)	401308N 0075032W	1317M / 100M	
ACOR II - ARGANIL	WINDMILL (5/8)	401309N 0075021W	1319M / 100M	By Day: Flashing White Light By Night: Fixed Red Light
ACOR II - ARGANIL	WINDMILL (6/8)	401306N 0075011W	1219M / 100M	
ACOR II - ARGANIL	WINDMILL (7/8)	401300N 0074957W	1344M / 100M	By Day: Flashing White Light By Night: Fixed Red Light
ACOR II - ARGANIL	WINDMILL (8/8)	401256N 0074945W	1356M / 100M	By Day: Flashing White Light By Night: Fixed Red Light
ALAGOA DE CIMA (ARCOS DE VALDEVEZ)	AEOLIC PARK (1/9)	415804N 0082730W	732M / 100M	Fixed Red Light
ALAGOA DE CIMA (ARCOS DE VALDEVEZ)	AEOLIC PARK (2/9)	415810N 0082712W	788M / 100M	Fixed Red Light
ALAGOA DE CIMA (ARCOS DE VALDEVEZ)	AEOLIC PARK (3/9)	415820N 0082648W	838M / 100M	
ALAGOA DE CIMA (ARCOS DE VALDEVEZ)	AEOLIC PARK (4/9)	415821N 0082636W	849M / 100M	Fixed Red Light
ALAGOA DE CIMA (ARCOS DE VALDEVEZ)	AEOLIC PARK (5/9)	415822N 0082627W	880M / 100M	
ALAGOA DE CIMA (ARCOS DE VALDEVEZ)	AEOLIC PARK (6/9)	415824N 0082616W	874M / 100M	
ALAGOA DE CIMA (ARCOS DE VALDEVEZ)	AEOLIC PARK (7/9)	415823N 0082607W	904M / 100M	
ALAGOA DE CIMA (ARCOS DE VALDEVEZ)	AEOLIC PARK (8/9)	415824N 0082553W	940M / 100M	Fixed Red Light
ALAGOA DE CIMA (ARCOS DE VALDEVEZ)	AEOLIC PARK (9/9)	415814N 0082558W	926M / 100M	Fixed Red Light
ALDEIA NOVA - TRANCOSO	WINDMILL (1/10)	404422N 0072400W	1031M / 131M	By day: Flashing white light By night: Fixed red light
ALDEIA NOVA - TRANCOSO	WINDMILL (2/10)	404413N 0072354W	1050M / 131M	By day: Flashing white light By night: Fixed red light
ALDEIA NOVA - TRANCOSO	WINDMILL (3/10)	404402N 0072359W	1028M / 131M	
ALDEIA NOVA - TRANCOSO	WINDMILL (4/10)	404356N 0072347W	981M / 131M	By day: Flashing white light By night: Fixed red light
ALDEIA NOVA - TRANCOSO	WINDMILL (5/10)	404344N 0072401W	971M / 131M	
ALDEIA NOVA - TRANCOSO	WINDMILL (6/10)	404337N 0072353W	963M / 131M	By day: Flashing white light By night: Fixed red light
ALDEIA NOVA - TRANCOSO	WINDMILL (7/10)	404405N 0072426W	961M / 131M	By day: Flashing white light By night: Fixed red light
ALDEIA NOVA - TRANCOSO	WINDMILL (8/10)	404356N 0072438W	954M / 131M	By day: Flashing white light By night: Fixed red light
ALDEIA NOVA - TRANCOSO	WINDMILL (9/10)	404312N 0072403W	919M / 131M	By day: Flashing white light By night: Fixed red light
ALDEIA NOVA - TRANCOSO	WINDMILL (10/10)	404303N 0072402W	897M / 131M	By day: Flashing white light By night: Fixed red light
ALFRAGIDE	MAST	384404N 0091412W	314M / 110M	Flashing Red Light
ALMARGEM DO BISPO - SINTRA	WINDMILL (1/3)	385021N 0091604W	457M / 119M	By day: Flashing white light By night: Fixed red light
ALMARGEM DO BISPO - SINTRA	WINDMILL (2/3)	385029N 0091603W	451M / 119M	
ALMARGEM DO BISPO - SINTRA	WINDMILL (3/3)	385039N 0091600W	457M / 119M	By day: Flashing white light By night: Fixed red light
ALROTA-BUCELAS - LOURES	AEOLIC PARK (1/2)	385610N 0090900W	359M / 111M	By Day: flashing white light By Night: flashing red light
ALROTA-BUCELAS - LOURES	AEOLIC PARK (2/2)	385610N 0090845W	371M / 111M	By Day: flashing white light By Night: flashing red light
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (1/50)	413102N 0073617W	1090M / 140M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (2/50)	413109N 0073558W	1095M / 140M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (3/50)	413118N 0073543W	1090M / 140M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (4/50)	413130N 0073546W	1090M / 140M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (5/50)	413136N 0073532W	1089M / 140M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (6/50)	413140N 0073456W	1098M / 140M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (7/50)	413152N 0073440W	1102M / 140M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (8/50)	413216N 0073429W	1106M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (9/50)	413223N 0073407W	1151M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (10/50)	413231N 0073405W	1157M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (11/50)	413246N 0073353W	1133M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (12/50)	413237N 0073325W	1180M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (13/50)	413242N 0073313W	1176M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (14/50)	413249N 0073305W	1169M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (15/50)	413258N 0073258W	1151M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (16/50)	413316N 0073221W	1189M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (17/50)	413322N 0073211W	1198M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (18/50)	413328N 0073200W	1191M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (19/50)	413338N 0073149W	1220M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (20/50)	413312N 0073145W	1205M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (21/50)	413330N 0073129W	1241M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (22/50)	413345N 0073109W	1265M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (23/50)	413403N 0073114W	1211M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (24/50)	413409N 0073103W	1214M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (25/50)	413419N 0073057W	1240M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (26/50)	413421N 0073044W	1211M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (27/50)	413430N 0073034W	1198M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (28/50)	413437N 0073029W	1203M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (29/50)	413443N 0073017W	1175M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (30/50)	413445N 0073003W	1151M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (31/50)	413233N 0073150W	1194M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (32/50)	413245N 0073147W	1210M / 127M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (33/50)	413252N 0073137W	1215M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (34/50)	413235N 0073119W	1196M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (35/50)	413247N 0073110W	1202M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (36/50)	413306N 0073107W	1229M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (37/50)	413246N 0073048W	1195M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (38/50)	413256N 0073048W	1203M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (39/50)	413310N 0073044W	1214M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (40/50)	413324N 0073055W	1260M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (41/50)	413332N 0073058W	1254M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (42/50)	413308N 0073024W	1189M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (43/50)	413318N 0073025W	1188M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (44/50)	413141N 0073148W	1178M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (45/50)	413129N 0073139W	1163M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (46/50)	413134N 0073125W	1166M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (47/50)	413133N 0073102W	1117M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (48/50)	413122N 0073029W	1109M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (49/50)	413131N 0073038W	1136M / 127M	
ALTO DA COUTADA - VILA POUCA DE AGUIAR - VALPACOS	WINDMILL (50/50)	413135N 0073026W	1117M / 127M	By day: Flashing White Lights By night: Fixed Red Lights
ALTO DA FOLGOROSA - TORRES VEDRAS	AEOLIC PARK (1/9)	390717N 0090832W	476M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DA FOLGOROSA - TORRES VEDRAS	AEOLIC PARK (2/9)	390734N 0090823W	458M / 126M	By Night: Fixed Red Light
ALTO DA FOLGOROSA - TORRES VEDRAS	AEOLIC PARK (3/9)	390744N 0090817W	469M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DA FOLGOROSA - TORRES VEDRAS	AEOLIC PARK (4/9)	390756N 0090803W	478M / 126M	By Night: Fixed Red Light
ALTO DA FOLGOROSA - TORRES VEDRAS	AEOLIC PARK (5/9)	390803N 0090752W	484M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DA FOLGOROSA - TORRES VEDRAS	AEOLIC PARK (6/9)	390808N 0090741W	475M / 126M	By Night: Fixed Red Light
ALTO DA FOLGOROSA - TORRES VEDRAS	AEOLIC PARK (7/9)	390825N 0090731W	485M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DA FOLGOROSA - TORRES VEDRAS	AEOLIC PARK (8/9)	390826N 0090719W	476M / 126M	By Night: Fixed Red Light
ALTO DA FOLGOROSA - TORRES VEDRAS	AEOLIC PARK (9/9)	390828N 0090708W	466M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (1/16)	403136N 0081336W	871M / 110M	By Day: Flashing white light By Night: Fixed red light
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (2/16)	403131N 0081340W	902M / 110M	By Day: Flashing white light By Night: Fixed red light
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (3/16)	403113N 0081351W	892M / 110M	By Day: Flashing white light By Night: Fixed red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (4/16)	403104N 0081351W	845M / 110M	
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (5/16)	403057N 0081357W	850M / 110M	
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (6/16)	403051N 0081358W	850M / 110M	
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (7/16)	403046N 0081402W	857M / 110M	By Day: Flashing white light By Night: Fixed red light
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (8/16)	403040N 0081411W	881M / 110M	
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (9/16)	403034N 0081436W	873M / 110M	By Day: Flashing white light By Night: Fixed red light
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (10/16)	403025N 0081534W	834M / 110M	By Day: Flashing white light By Night: Fixed red light
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (11/16)	403019N 0081541W	832M / 110M	
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (12/16)	403012N 0081549W	830M / 110M	
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (13/16)	403007N 0081557W	817M / 110M	By Day: Flashing white light By Night: Fixed red light
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (14/16)	403000N 0081605W	801M / 110M	
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (15/16)	402954N 0081605W	803M / 110M	
ALTO DE MONCAO - AGUEDA - MORTAGUA	AEOLIC PARK (16/16)	402948N 0081607W	800M / 110M	By Day: Flashing white light By Night: Fixed red light
ALTO DO MARCO	WINDMILL (1/7)	412442N 0074748W	1376M / 126M	By day: Flashing White lights By night: Fixed Red lights
ALTO DO MARCO	WINDMILL (2/7)	412434N 0074744W	1381M / 126M	By day: Flashing White lights By night: Fixed Red lights
ALTO DO MARCO	WINDMILL (3/7)	412424N 0074804W	1366M / 126M	
ALTO DO MARCO	WINDMILL (4/7)	412430N 0074811W	1341M / 126M	By day: Flashing White lights By night: Fixed Red lights
ALTO DO MARCO	WINDMILL (5/7)	412439N 0074806W	1366M / 126M	
ALTO DO MARCO	WINDMILL (6/7)	412416N 0074804W	1341M / 126M	By day: Flashing White lights By night: Fixed Red lights
ALTO DO MARCO	WINDMILL (7/7)	412427N 0074748W	1395M / 141M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOS FORNINHOS - PORTALEGRE	WINDMILL (1/4)	391741N 0072124W	1034M / 126M	By day: Flashing White light By night: Fixed Red light
ALTO DOS FORNINHOS - PORTALEGRE	WINDMILL (2/4)	391737N 0072112W	1065M / 126M	By day: Flashing White light By night: Fixed Red light
ALTO DOS FORNINHOS - PORTALEGRE	WINDMILL (3/4)	391737N 0072056W	1064M / 126M	
ALTO DOS FORNINHOS - PORTALEGRE	WINDMILL (4/4)	391711N 0072040W	1037M / 126M	By day: Flashing White light By night: Fixed Red light
ALTO DOURO - ARMAMAR	AEOLIC PARK (1/15)	410213N 0074019W	1053M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DOURO - ARMAMAR	AEOLIC PARK (2/15)	410231N 0074052W	1058M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DOURO - ARMAMAR	AEOLIC PARK (3/15)	410238N 0074103W	1074M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DOURO - ARMAMAR	AEOLIC PARK (4/15)	410251N 0074052W	1068M / 126M	
ALTO DOURO - ARMAMAR	AEOLIC PARK (5/15)	410259N 0074100W	1039M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DOURO - ARMAMAR	AEOLIC PARK (6/15)	410307N 0074108W	1044M / 126M	
ALTO DOURO - ARMAMAR	AEOLIC PARK (7/15)	410315N 0074129W	1019M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DOURO - ARMAMAR	AEOLIC PARK (8/15)	410201N 0073915W	1044M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DOURO - ARMAMAR	AEOLIC PARK (9/15)	410210N 0073908W	1043M / 126M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ALTO DOURO - ARMAMAR	AEOLIC PARK (10/15)	410225N 0073904W	1031M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DOURO - ARMAMAR	AEOLIC PARK (11/15)	410247N 0073920W	1041M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DOURO - ARMAMAR	AEOLIC PARK (12/15)	410303N 0073913W	1026M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DOURO - ARMAMAR	AEOLIC PARK (13/15)	410320N 0073913W	1018M / 126M	By Day: Flashing white light By Night: Fixed Red Light
ALTO DOURO - ARMAMAR	AEOLIC PARK (14/15)	410154N 0074014W	1046M / 126M	By day: Flashing white light By night: Fixed Red Light
ALTO DOURO - ARMAMAR	AEOLIC PARK (15/15)	410303N 0074132W	1016M / 126M	By day: Flashing white light By night: Fixed Red Light
ALTO DOURO - ARMAMAR II	WINDMILL (1/5)	410451N 0073925W	1035M / 131M	By day: Flashing white light By night: Fixed red light
ALTO DOURO - ARMAMAR II	WINDMILL (2/5)	410504N 0073926W	1032M / 131M	
ALTO DOURO - ARMAMAR II	WINDMILL (3/5)	410514N 0073928W	995M / 131M	By day: Flashing white light By night: Fixed red light
ALTO DOURO - ARMAMAR II	WINDMILL (4/5)	410527N 0073929W	986M / 131M	
ALTO DOURO - ARMAMAR II	WINDMILL (5/5)	410539N 0073938W	988M / 131M	By day: Flashing white light By night: Fixed red light
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (1/15)	410351N 0073430W	1059M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (2/15)	410359N 0073431W	1070M / 127M	
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (3/15)	410406N 0073436W	1082M / 127M	
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (4/15)	410414N 0073440W	1092M / 127M	
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (5/15)	410422N 0073441W	1098M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (6/15)	410428N 0073448W	1085M / 127M	
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (7/15)	410433N 0073457W	1063M / 127M	
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (8/15)	410445N 0073450W	1038M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (9/15)	410534N 0073452W	1073M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (10/15)	410542N 0073452W	1072M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (11/15)	410603N 0073444W	1054M / 127M	
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (12/15)	410611N 0073448W	1063M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (13/15)	410610N 0073402W	1052M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (14/15)	410604N 0073355W	1042M / 127M	
ALTO DOURO - CHAVAES - TABUACO	WINDMILL (15/15)	410605N 0073333W	989M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - SENDIM - TABUACO	WINDMILL (1/20)	410234N 0073300W	1031M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - SENDIM - TABUACO	WINDMILL (2/20)	410242N 0073259W	1063M / 127M	
ALTO DOURO - SENDIM - TABUACO	WINDMILL (3/20)	410253N 0073255W	1072M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - SENDIM - TABUACO	WINDMILL (4/20)	410303N 0073246W	1057M / 127M	
ALTO DOURO - SENDIM - TABUACO	WINDMILL (5/20)	410315N 0073236W	1059M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - SENDIM - TABUACO	WINDMILL (6/20)	410324N 0073236W	1053M / 127M	
ALTO DOURO - SENDIM - TABUACO	WINDMILL (7/20)	410332N 0073236W	1055M / 127M	
ALTO DOURO - SENDIM - TABUACO	WINDMILL (8/20)	410343N 0073240W	1051M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - SENDIM - TABUACO	WINDMILL (9/20)	410353N 0073243W	1053M / 127M	
ALTO DOURO - SENDIM - TABUACO	WINDMILL (10/20)	410404N 0073245W	1056M / 127M	
ALTO DOURO - SENDIM - TABUACO	WINDMILL (11/20)	410412N 0073241W	1029M / 127M	By day: Flashing White lights By night: Fixed Red lights



Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ALTO DOURO - SENDIM - TABUACO	WINDMILL (12/20)	410426N 0073240W	1023M / 127M	
ALTO DOURO - SENDIM - TABUACO	WINDMILL (13/20)	410435N 0073247W	1029M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - SENDIM - TABUACO	WINDMILL (14/20)	410534N 0073246W	1014M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - SENDIM - TABUACO	WINDMILL (15/20)	410543N 0073245W	992M / 127M	
ALTO DOURO - SENDIM - TABUACO	WINDMILL (16/20)	410551N 0073248W	993M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - SENDIM - TABUACO	WINDMILL (17/20)	410332N 0073205W	1001M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DOURO - SENDIM - TABUACO	WINDMILL (18/20)	410342N 0073207W	1020M / 127M	
ALTO DOURO - SENDIM - TABUACO	WINDMILL (19/20)	410352N 0073203W	1029M / 127M	
ALTO DOURO - SENDIM - TABUACO	WINDMILL (20/20)	410402N 0073200W	1007M / 127M	By day: Flashing White lights By night: Fixed Red lights
ALTO DO MIGUEL (ARRUDA DOS VINHOS)	AEOLIC PARK (1/2)	385804N 0090511W	448M / 100M	Fixed Red Light
ALTO DO MIGUEL (ARRUDA DOS VINHOS)	AEOLIC PARK (2/2)	385807N 0090505W	441M / 100M	Fixed Red Light
ALTO DO TALEFE (CINFAES)	AEOLIC PARK (1/9)	405955N 0075917W	1426M / 100M	Fixed Red Light
ALTO DO TALEFE (CINFAES)	AEOLIC PARK (2/9)	405945N 0075928W	1319M / 100M	Fixed Red Light
ALTO DO TALEFE (CINFAES)	AEOLIC PARK (3/9)	405930N 0075907W	1368M / 100M	Fixed Red Light
ALTO DO TALEFE (CINFAES)	AEOLIC PARK (4/9)	405923N 0075912W	1392M / 100M	
ALTO DO TALEFE (CINFAES)	AEOLIC PARK (5/9)	405915N 0075911W	1398M / 100M	
ALTO DO TALEFE (CINFAES)	AEOLIC PARK (6/9)	405910N 0075859W	1412M / 100M	Fixed Red Light
ALTO DO TALEFE (CINFAES)	AEOLIC PARK (7/9)	405917N 0075858W	1402M / 100M	
ALTO DO TALEFE (CINFAES)	AEOLIC PARK (8/9)	405906N 0075844W	1396M / 100M	Fixed Red Light
ALTO DO TALEFE (CINFAES)	AEOLIC PARK (9/9)	405905N 0075824W	1409M / 100M	Fixed Red Light
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (1/35)	420029N 0081535W	1370M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (2/35)	420008N 0081540W	1322M / 119M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (3/35)	420016N 0081532W	1363M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (4/35)	420025N 0081526W	1381M / 100M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (5/35)	420039N 0081514W	1382M / 100M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (6/35)	420045N 0081508W	1375M / 100M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (7/35)	420047N 0081457W	1345M / 100M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (8/35)	420048N 0081435W	1337M / 119M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (9/35)	420053N 0081445W	1359M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (10/35)	420057N 0081457W	1360M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (11/35)	420111N 0081453W	1347M / 119M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (12/35)	420125N 0081501W	1211M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (13/35)	420132N 0081505W	1182M / 119M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (14/35)	420140N 0081511W	1144M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (15/35)	420145N 0081518W	1113M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (16/35)	420153N 0081524W	1051M / 119M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (17/35)	420153N 0081430W	1110M / 119M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (18/35)	420147N 0081438W	1134M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (19/35)	420139N 0081441W	1155M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (20/35)	420131N 0081438W	1195M / 119M	By day: Flashing White lights By night: Fixed Red lights

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (21/35)	420120N 0081443W	1293M / 119M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (22/35)	420110N 0081442W	1355M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (23/35)	420104N 0081435W	1364M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (24/35)	420058N 0081426W	1360M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (25/35)	420051N 0081416W	1370M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (26/35)	420108N 0081414W	1333M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (27/35)	420121N 0081403W	1203M / 119M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (28/35)	420131N 0081357W	1121M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (29/35)	420032N 0081520W	1384M / 100M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (30/35)	420144N 0081403W	1077M / 119M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (31/35)	420104N 0081405W	1301M / 119M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (32/35)	420114N 0081350W	1223M / 119M	
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (33/35)	420123N 0081335W	1139M / 119M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (34/35)	420043N 0081430W	1356M / 131M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	WINDMILL (35/35)	420036N 0081428W	1350M / 131M	By day: Flashing White lights By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	TOWER (1/2)	420029N 0081428W	1314M / 131M	By day: Red and White Painted Tower By night: Fixed Red lights
ALTO MINHO I - ALTO DO CORISCO	TOWER (2/2)	420149N 0081350W	1052M / 131M	By day: Red and White Painted Tower By night: Fixed Red lights
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (1/29)	420116N 0082548W	833M / 100M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (2/29)	420120N 0082536W	806M / 100M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (3/29)	420110N 0082537W	803M / 100M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (4/29)	420106N 0082530W	801M / 100M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (5/29)	420103N 0082523W	817M / 100M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (6/29)	420054N 0082517W	800M / 100M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (7/29)	420058N 0082503W	749M / 100M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (8/29)	420050N 0082504W	765M / 100M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (9/29)	420028N 0082555W	792M / 100M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (10/29)	420029N 0082545W	827M / 100M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (11/29)	420029N 0082532W	823M / 100M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (12/29)	420017N 0082530W	807M / 100M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (13/29)	420009N 0082524W	802M / 119M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (14/29)	420002N 0082519W	796M / 119M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (15/29)	415955N 0082510W	812M / 119M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (16/29)	415944N 0082504W	823M / 119M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (17/29)	415936N 0082502W	834M / 119M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (18/29)	415930N 0082454W	834M / 119M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (19/29)	415924N 0082449W	830M / 119M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (20/29)	415918N 0082443W	808M / 119M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (21/29)	415910N 0082435W	842M / 119M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (22/29)	420019N 0082601W	780M / 100M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (23/29)	415851N 0082405W	832M / 119M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (24/29)	415859N 0082438W	884M / 119M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (25/29)	415855N 0082428W	899M / 119M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (26/29)	415854N 0082416W	861M / 119M	
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (27/29)	420123N 0082619W	798M / 199M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (28/29)	420035N 0082606W	836M / 199M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	WINDMILL (29/29)	415853N 0082353W	856M / 199M	By day: Flashing White light By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	TOWER (1/2)	415846N 0082407W	808M / 119M	By day: Red and White Painted Tower By night: Fixed Red light
ALTO MINHO I - MENDOIRO/BUSTAVADE	TOWER (2/2)	420014N 0082605W	772M / 119M	By day: Red and White Painted Tower By night: Fixed Red light
ALTO MINHO I - PICOS	WINDMILL (1/29)	420344N 0081316W	1243M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	WINDMILL (2/29)	420338N 0081304W	1249M / 119M	
ALTO MINHO I - PICOS	WINDMILL (3/29)	420411N 0081312W	1235M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	WINDMILL (4/29)	420403N 0081303W	1291M / 119M	
ALTO MINHO I - PICOS	WINDMILL (5/29)	420353N 0081300W	1308M / 119M	
ALTO MINHO I - PICOS	WINDMILL (6/29)	420339N 0081253W	1246M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	WINDMILL (7/29)	420401N 0081245W	1310M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	WINDMILL (8/29)	420459N 0081242W	1182M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	WINDMILL (9/29)	420454N 0081235W	1213M / 100M	
ALTO MINHO I - PICOS	WINDMILL (10/29)	420445N 0081234W	1209M / 100M	
ALTO MINHO I - PICOS	WINDMILL (11/29)	420435N 0081230W	1240M / 119M	
ALTO MINHO I - PICOS	WINDMILL (12/29)	420405N 0081219W	1337M / 119M	
ALTO MINHO I - PICOS	WINDMILL (14/29)	420550N 0081207W	1024M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	WINDMILL (15/29)	420540N 0081209W	1064M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	WINDMILL (16/29)	420531N 0081207W	1101M / 119M	
ALTO MINHO I - PICOS	WINDMILL (17/29)	420518N 0081208W	1146M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	WINDMILL (18/29)	420510N 0081204W	1152M / 100M	
ALTO MINHO I - PICOS	WINDMILL (19/29)	420503N 0081219W	1226M / 100M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ALTO MINHO I - PICOS	WINDMILL (20/29)	420452N 0081221W	1222M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	WINDMILL (21/29)	420446N 0081218W	1256M / 100M	
ALTO MINHO I - PICOS	WINDMILL (22/29)	420440N 0081212W	1244M / 100M	
ALTO MINHO I - PICOS	WINDMILL (23/29)	420429N 0081211W	1311M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	WINDMILL (24/29)	420419N 0081212W	1345M / 119M	
ALTO MINHO I - PICOS	WINDMILL (25/29)	420403N 0081210W	1347M / 119M	
ALTO MINHO I - PICOS	WINDMILL (26/29)	420356N 0081205W	1326M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	WINDMILL (27/29)	420351N 0081200W	1321M / 100M	
ALTO MINHO I - PICOS	WINDMILL (28/29)	420406N 0081235W	1358M / 199M	
ALTO MINHO I - PICOS	WINDMILL (29/29)	420326N 0081308W	1357M / 199M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOS	TOWER (1/2)	420348N 0081206W	1332M / 119M	By day: Red and White Painted Tower By night: Fixed Red light
ALTO MINHO I - PICOS	TOWER (2/2)	420514N 0081236W	1098M / 119M	By day: Red and White Painted Tower By night: Fixed Red light
ALTO MINHO I - PICOTO	WINDMILL (1/27)	415929N 0083429W	722M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (2/27)	415929N 0083414W	763M / 100M	
ALTO MINHO I - PICOTO	WINDMILL (3/27)	415925N 0083407W	758M / 100M	
ALTO MINHO I - PICOTO	WINDMILL (4/27)	415920N 0083358W	745M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (5/27)	415920N 0083349W	792M / 100M	
ALTO MINHO I - PICOTO	WINDMILL (6/27)	415914N 0083340W	807M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (7/27)	415909N 0083334W	814M / 100M	
ALTO MINHO I - PICOTO	WINDMILL (8/27)	415900N 0083334W	849M / 100M	
ALTO MINHO I - PICOTO	WINDMILL (9/27)	415833N 0083326W	821M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (10/27)	415852N 0083322W	859M / 100M	
ALTO MINHO I - PICOTO	WINDMILL (11/27)	415850N 0083343W	850M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (12/27)	415847N 0083334W	870M / 100M	
ALTO MINHO I - PICOTO	WINDMILL (13/27)	415841N 0083326W	852M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (14/27)	415809N 0083355W	795M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (15/27)	415759N 0083356W	826M / 119M	
ALTO MINHO I - PICOTO	WINDMILL (16/27)	415746N 0083404W	824M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (17/27)	415843N 0083313W	832M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (18/27)	415735N 0083427W	817M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (19/27)	415743N 0083424W	813M / 119M	
ALTO MINHO I - PICOTO	WINDMILL (20/27)	420023N 0083504W	672M / 131M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (21/27)	420017N 0083456W	682M / 131M	
ALTO MINHO I - PICOTO	WINDMILL (22/27)	420002N 0083450W	637M / 131M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (23/27)	415954N 0083445W	648M / 131M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (24/27)	415857N 0083309W	860M / 131M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	WINDMILL (25/27)	415852N 0083257W	836M / 131M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ALTO MINHO I - PICOTO	WINDMILL (26/27)	415848N 0083246W	839M / 131M	
ALTO MINHO I - PICOTO	WINDMILL (27/27)	415844N 0083232W	838M / 131M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO	TOWER (1/3)	415925N 0083357W	760M / 131M	By day: Red and White Painted Tower By night: Fixed Red light
ALTO MINHO I - PICOTO	TOWER (2/3)	415727N 0083428W	815M / 131M	By day: Red and White Painted Tower By night: Fixed Red light
ALTO MINHO I - PICOTO	TOWER (3/3)	415843N 0083223W	827M / 131M	By day: Red and White Painted Tower By night: Fixed Red light
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (1/16)	415959N 0081903W	1007M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (2/16)	420003N 0081850W	1071M / 100M	
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (3/16)	420002N 0081839W	1110M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (4/16)	420013N 0081837W	1136M / 100M	
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (5/16)	420014N 0081825W	1170M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (6/16)	420011N 0081816W	1173M / 100M	
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (7/16)	420024N 0081810W	1204M / 100M	
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (8/16)	420041N 0081808W	1134M / 100M	
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (9/16)	420030N 0081757W	1210M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (10/16)	420029N 0081746W	1197M / 100M	
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (11/16)	420034N 0081729W	1183M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (12/16)	420039N 0081719W	1207M / 100M	
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (13/16)	420106N 0081711W	1205M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (14/16)	420059N 0081709W	1215M / 100M	
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (15/16)	420050N 0081713W	1214M / 100M	
ALTO MINHO I - SANTO ANTÓNIO	WINDMILL (16/16)	420050N 0081702W	1187M / 100M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - SANTO ANTÓNIO	TOWER (1/2)	420003N 0081829W	1129M / 100M	By day: Red and White Painted Tower By night: Fixed Red light
ALTO MINHO I - SANTO ANTÓNIO	TOWER (2/2)	420045N 0081703W	1200M / 100M	By day: Red and White Painted Tower By night: Fixed Red light
ALVAIAZERE - AREGA	WINDMILL (1/10)	395035N 0081944W	577M / 119M	By Day: Flashing White Lights By Night: Fixed Red Light
ALVAIAZERE - AREGA	WINDMILL (2/10)	395021N 0081944W	578M / 119M	By Day: Flashing White Lights By Night: Fixed Red Light
ALVAIAZERE	WINDMILL (3/10)	395006N 0082441W	695M / 124M	By Day: Flashing White Lights By Night: Fixed Red Light
ALVAIAZERE	WINDMILL (4/10)	394955N 0082444W	690M / 124M	
ALVAIAZERE	WINDMILL (5/10)	394948N 0082446W	696M / 124M	
ALVAIAZERE	WINDMILL (6/10)	394941N 0082447W	704M / 124M	By Day: Flashing White Lights By Night: Fixed Red Light
ALVAIAZERE	WINDMILL (7/10)	394934N 0082448W	695M / 124M	
ALVAIAZERE	WINDMILL (8/10)	394928N 0082449W	684M / 124M	
ALVAIAZERE	WINDMILL (9/10)	394922N 0082452W	656M / 124M	By Day: Flashing White Lights By Night: Fixed Red Light
ALVAIAZERE - AREGA	WINDMILL (10/10)	394957N 0082002W	565M / 150M	By Day: Flashing White Lights By Night: Fixed Red Light
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (1/18)	395517N 0075946W	1008M / 125M	By day: Flashing white By night: Fixed red

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (2/18)	395526N 0075930W	1025M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (3/18)	395537N 0075919W	1011M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (4/18)	395554N 0075917W	1006M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (5/18)	395603N 0075904W	1022M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (6/18)	395617N 0075828W	1028M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (7/18)	395624N 0075818W	1016M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (8/18)	395649N 0075802W	993M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (9/18)	395638N 0075756W	1046M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (10/18)	395628N 0075751W	1084M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (11/18)	395616N 0075746W	1075M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (12/18)	395607N 0075744W	1060M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (13/18)	395558N 0075741W	1031M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (14/18)	395631N 0075732W	1074M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (15/18)	395633N 0075720W	1077M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (16/18)	395635N 0075704W	1062M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (17/18)	395628N 0075653W	1058M / 125M	By day: Flashing white By night: Fixed red
ALVELOS - PINHAL INTERIOR - OLEIROS	AEOLIC PARK (18/18)	395639N 0075650W	1069M / 125M	By day: Flashing white By night: Fixed red
ALVOACA (SEIA)	AEOLIC PARK (1/10)	401533N 0074240W	1063M / 100M	By day: Flashing white By night: Fixed Red
ALVOACA (SEIA)	AEOLIC PARK (2/10)	401539N 0074234W	1085M / 100M	
ALVOACA (SEIA)	AEOLIC PARK (3/10)	401543N 0074225W	1092M / 100M	
ALVOACA (SEIA)	AEOLIC PARK (4/10)	401546N 0074217W	1118M / 100M	by day: Flashing white light By night: Fixed Red
ALVOACA (SEIA)	AEOLIC PARK (5/10)	401548N 0074207W	1170M / 100M	
ALVOACA (SEIA)	AEOLIC PARK (6/10)	401551N 0074157W	1218M / 100M	
ALVOACA (SEIA)	AEOLIC PARK (7/10)	401553N 0074149W	1230M / 100M	By day: Flashing white light By night: Fixed Red Light
ALVOACA (SEIA)	AEOLIC PARK (8/10)	401556N 0074139W	1260M / 100M	
ALVOACA (SEIA)	AEOLIC PARK (9/10)	401600N 0074129W	1308M / 100M	
ALVOACA (SEIA)	AEOLIC PARK (10/10)	401603N 0074122W	1316M / 100M	By day: Flashing white light By night: Fixed Red Light
AMARAL I (ALENQUER)	AEOLIC PARK (1/5)	390136N 0090255W	353M / 107M	Fixed Red Light
AMARAL I (ALENQUER)	AEOLIC PARK (2/5)	390135N 0090246W	351M / 107M	Fixed Red Light
AMARAL I (ALENQUER)	AEOLIC PARK (3/5)	390134N 0090239W	361M / 107M	Fixed Red Light
AMARAL I (ALENQUER)	AEOLIC PARK (4/5)	390133N 0090230W	374M / 107M	Fixed Red Light
AMARAL I (ALENQUER)	AEOLIC PARK (5/5)	390131N 0090211W	388M / 107M	Fixed Red Light
ARCELA - SOBRAL DE MONTE AGRACO	AEOLIC PARK (1/5)	385935N 0090921W	475M / 125M	Red Stripes at Propellers Extremities By night: Fixed red
ARCELA - SOBRAL DE MONTE AGRACO	AEOLIC PARK (2/5)	385927N 0090912W	505M / 125M	Red Stripes at Propellers Extremities By night: Fixed red

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
ARCELA - SOBRAL DE MONTE AGRACO	AEOLIC PARK (3/5)	385921N 0090854W	525M / 125M	Red Stripes at Propellers Extremities By night: Fixed red
ARCELA - SOBRAL DE MONTE AGRACO	AEOLIC PARK (4/5)	385919N 0090927W	491M / 125M	Red Stripes at Propellers Extremities By night: Fixed red
ARCELA - SOBRAL DE MONTE AGRACO	AEOLIC PARK (5/5)	385914N 0090937W	473M / 125M	Red Stripes at Propellers Extremities By night: Fixed red
ARGA - CAMINHA	WINDMILL (1/15)	414903N 0084151W	905M / 124M	By day: Flashing white By night: Fixed red
ARGA - CAMINHA	WINDMILL (2/15)	414910N 0084159W	903M / 124M	
ARGA - CAMINHA	WINDMILL (3/15)	414914N 0084209W	916M / 124M	
ARGA - CAMINHA	WINDMILL (4/15)	414918N 0084220W	904M / 124M	By day: Flashing white By night: Fixed red
ARGA - CAMINHA	WINDMILL (5/15)	414923N 0084230W	908M / 124M	
ARGA - CAMINHA	WINDMILL (6/15)	414929N 0084240W	924M / 124M	
ARGA - CAMINHA	WINDMILL (7/15)	414936N 0084248W	906M / 124M	By day: Flashing white By night: Fixed red
ARGA - CAMINHA	WINDMILL (8/15)	414942N 0084259W	854M / 124M	
ARGA - CAMINHA	WINDMILL (9/15)	414949N 0084306W	821M / 124M	By day: Flashing white By night: Fixed red
ARGA - CAMINHA	WINDMILL (10/15)	414916N 0084309W	865M / 124M	By day: Flashing white By night: Fixed red
ARGA - CAMINHA	WINDMILL (11/15)	414913N 0084321W	861M / 124M	
ARGA - CAMINHA	WINDMILL (12/15)	414925N 0084327W	843M / 124M	By day: Flashing white By night: Fixed red
ARGA - CAMINHA	WINDMILL (13/15)	414957N 0084458W	828M / 130M	By day: Flashing white By night: Fixed red
ARGA - CAMINHA	WINDMILL (14/15)	414950N 0084448W	853M / 130M	By day: Flashing white By night: Fixed red
ARGA - CAMINHA	WINDMILL (15/15)	414845N 0084138W	931M / 139M	By day: Flashing white By night: Fixed red
ARGOMIL-MOURO	WINDMILL (1/11)	403522N 0071034W	1004M / 150M	By day: Flashing White lights By night: Fixed Red lights
ARGOMIL-MOURO	WINDMILL (2/11)	403536N 0071104W	1007M / 150M	By day: Flashing White lights By night: Fixed Red lights
ARGOMIL-MOURO	WINDMILL (3/11)	403541N 0071037W	1006M / 150M	
ARGOMIL-MOURO	WINDMILL (4/11)	403554N 0071059W	1027M / 150M	By day: Flashing White lights By night: Fixed Red lights
ARGOMIL-MOURO	WINDMILL (5/11)	403607N 0071054W	1035M / 150M	
ARGOMIL-MOURO	WINDMILL (6/11)	403626N 0071057W	1041M / 150M	By day: Flashing White lights By night: Fixed Red lights
ARGOMIL-MOURO	WINDMILL (7/11)	403646N 0071118W	1034M / 150M	By day: Flashing White lights By night: Fixed Red lights
ARGOMIL-MOURO	WINDMILL (8/11)	403658N 0071103W	1047M / 150M	By day: Flashing White lights By night: Fixed Red lights
ARGOMIL-MOURO	WINDMILL (9/11)	403711N 0071104W	1045M / 150M	
ARGOMIL-MOURO	WINDMILL (10/11)	403721N 0071117W	1049M / 150M	By day: Flashing White lights By night: Fixed Red lights
ARGOMIL-MOURO	WINDMILL (11/11)	403731N 0071101W	1035M / 150M	By day: Flashing White lights By night: Fixed Red lights
ARRUDA1 - ARRANHO - ARRUDA DOS VINHOS	AEOLIC PARK (1/3)	385825N 0091011W	430M / 121M	By day: Flashing white By night: Fixed red
ARRUDA1 - ARRANHO - ARRUDA DOS VINHOS	AEOLIC PARK (2/3)	385810N 0090958W	417M / 120M	
ARRUDA1 - ARRANHO - ARRUDA DOS VINHOS	AEOLIC PARK (3/3)	385802N 0090949W	419M / 120M	By day: Flashing white By night: Fixed red
AZINHEIRA (CELORICO DE BASTO)	WINDMILL (1/8)	412605N 0080323W	898M / 119M	By day: Flashing white light By night: Fixed Red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
AZINHEIRA (CELORICO DE BASTO)	WINDMILL (2/8)	412553N 0080324W	924M / 119M	
AZINHEIRA (CELORICO DE BASTO)	WINDMILL (3/8)	412544N 0080323W	924M / 119M	
AZINHEIRA (CELORICO DE BASTO)	WINDMILL (4/8)	412537N 0080329W	928M / 119M	By day: Flashing white light By night: Fixed Red Light
AZINHEIRA (CELORICO DE BASTO)	WINDMILL (5/8)	412523N 0080332W	926M / 119M	
AZINHEIRA (CELORICO DE BASTO)	WINDMILL (6/8)	412515N 0080316W	917M / 119M	By day: Flashing white light By night: Fixed Red Light
AZINHEIRA (CELORICO DE BASTO)	WINDMILL (7/8)	412503N 0080342W	949M / 119M	By day: Flashing white light By night: Fixed Red Light
AZINHEIRA (CELORICO DE BASTO)	WINDMILL (8/8)	412511N 0080332W	956M / 141M	By day: Flashing white light By night: Fixed Red Light
AZURARA	MAST	411956N 0084305W	171M / 140M	Flashing Red Light
BALOCAS - SEIA	WINDMILL (1/14)	401426N 0074617W	1314M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
BALOCAS - SEIA	WINDMILL (2/14)	401432N 0074611W	1326M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
BALOCAS - SEIA	WINDMILL (3/14)	401436N 0074604W	1289M / 126M	
BALOCAS - SEIA	WINDMILL (4/14)	401440N 0074555W	1266M / 126M	
BALOCAS - SEIA	WINDMILL (5/14)	401444N 0074547W	1229M / 126M	
BALOCAS - SEIA	WINDMILL (6/14)	401449N 0074540W	1175M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
BALOCAS - SEIA	WINDMILL (7/14)	401454N 0074533W	1160M / 126M	
BALOCAS - SEIA	WINDMILL (8/14)	401459N 0074526W	1175M / 126M	
BALOCAS - SEIA	WINDMILL (9/14)	401505N 0074520W	1157M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
BALOCAS - SEIA	WINDMILL (10/14)	401513N 0074512W	1105M / 126M	
BALOCAS - SEIA	WINDMILL (11/14)	401519N 0074510W	1051M / 126M	
BALOCAS - SEIA	WINDMILL (12/14)	401526N 0074506W	1013M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
BALOCAS - SEIA	WINDMILL (13/14)	401544N 0074627W	1033M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
BALOCAS - SEIA	WINDMILL (14/14)	401551N 0074623W	1175M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
BARCARENA	MAST	384336N 0091558W	225M / 100M	Flashing Red Light
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (1/11)	393439N 0083507W	473M / 126M	By day: Flashing white light By night: Fixed red light
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (2/11)	393446N 0083505W	447M / 126M	
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (3/11)	393458N 0083500W	441M / 126M	
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (4/11)	393503N 0083453W	456M / 126M	By day: Flashing white light By night: Fixed red light
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (5/11)	393508N 0083444W	451M / 126M	
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (6/11)	393512N 0083435W	446M / 126M	By day: Flashing white light By night: Fixed red light
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (7/11)	393519N 0083429W	440M / 126M	
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (8/11)	393525N 0083423W	436M / 126M	
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (9/11)	393533N 0083421W	426M / 126M	By day: Flashing white light By night: Fixed red light
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (10/11)	393606N 0083329W	376M / 126M	By day: Flashing white light By night: Fixed red light
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (11/11)	393609N 0083318W	376M / 126M	By day: Flashing white light By night: Fixed red light
BAIXO ALENTEJO - MERTOLA	WINDMILL (1/19)	372900N 0074828W	439M / 144M	By day: Flashing white By night: Fixed red



Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
BAIXO ALENTEJO - MERTOLA	WINDMILL (2/19)	372858N 0074842W	431M / 144M	
BAIXO ALENTEJO - MERTOLA	WINDMILL (3/19)	372853N 0074853W	441M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (4/19)	372910N 0075057W	468M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (5/19)	372919N 0075124W	468M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (6/19)	372907N 0075140W	463M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (7/19)	372858N 0075151W	472M / 144M	
BAIXO ALENTEJO - MERTOLA	WINDMILL (8/19)	372857N 0075203W	478M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (9/19)	372901N 0075225W	472M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (10/19)	372935N 0075125W	464M / 144M	
BAIXO ALENTEJO - MERTOLA	WINDMILL (11/19)	372938N 0075111W	465M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (12/19)	372959N 0075037W	449M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (13/19)	373009N 0075003W	439M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (14/19)	373037N 0075000W	440M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (15/19)	373026N 0074913W	432M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (16/19)	373048N 0074939W	428M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (17/19)	373046N 0075055W	426M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (18/19)	373059N 0075134W	421M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (19/19)	373049N 0075145W	409M / 144M	By day: Flashing white By night: Fixed red
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (1/27)	370938N 0084815W	282M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (2/27)	370928N 0084818W	277M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (3/27)	370930N 0084838W	282M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK 4/27)	370923N 0084847W	272M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (5/27)	370920N 0084911W	262M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (6/27)	370917N 0084820W	282M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK 7/27)	370909N 0084827W	272M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (8/27)	370904N 0084837W	272M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (9/27)	370857N 0084846W	267M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (10/27)	370849N 0084853W	267M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (11/27)	370846N 0084905W	272M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (12/27)	370834N 0084851W	272M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (13/27)	370827N 0084859W	257M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (14/27)	370817N 0084858W	262M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (15/27)	370805N 0084856W	262M / 122M	By Day: Flashing white light By Night: Fixed Red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (16/27)	370910N 0084742W	282M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (17/27)	370857N 0084736W	292M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (18/27)	370858N 0084752W	282M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (19/27)	370839N 0084736W	292M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (20/27)	370827N 0084738W	292M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (21/27)	370821N 0084746W	282M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (22/27)	370813N 0084750W	272M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (23/27)	370804N 0084756W	272M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (24/27)	370755N 0084802W	252M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (25/27)	370913N 0084852W	272M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (26/27)	370959N 0084806W	363M / 200M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (27/27)	371002N 0084741W	364M / 200M	By Day: Flashing white light By Night: Fixed Red Light
BORDEIRA - ALJEZUR	AEOLIC PARK (1/12)	371250N 0084739W	334M / 119M	By Day: Flashing white light By Night: Fixed Red Light
BORDEIRA - ALJEZUR	AEOLIC PARK (2/12)	371238N 0084743W	311M / 119M	
BORDEIRA - ALJEZUR	AEOLIC PARK (3/12)	371238N 0084720W	337M / 119M	
BORDEIRA - ALJEZUR	AEOLIC PARK (4/12)	371224N 0084720W	329M / 119M	By Day: Flashing white light By Night: Fixed Red Light
BORDEIRA - ALJEZUR	AEOLIC PARK (5/12)	371239N 0084637W	346M / 119M	By Day: Flashing white light By Night: Fixed Red Light
BORDEIRA - ALJEZUR	AEOLIC PARK (6/12)	371232N 0084641W	345M / 119M	
BORDEIRA - ALJEZUR	AEOLIC PARK (7/12)	371418N 0084811W	287M / 119M	By Day: Flashing white light By Night: Fixed Red Light
BORDEIRA - ALJEZUR	AEOLIC PARK (8/12)	371409N 0084815W	284M / 119M	
BORDEIRA - ALJEZUR	AEOLIC PARK (9/12)	371400N 0084822W	276M / 119M	By Day: Flashing white light By Night: Fixed Red Light
BORDEIRA - ALJEZUR	AEOLIC PARK (10/12)	371343N 0084823W	284M / 119M	By Day: Flashing white light By Night: Fixed Red Light
BORDEIRA - ALJEZUR	AEOLIC PARK (11/12)	371339N 0084808W	295M / 119M	
BORDEIRA - ALJEZUR	AEOLIC PARK (12/12)	371343N 0084757W	301M / 119M	By Day: Flashing white light By Night: Fixed Red Light
BRAGA	MAST	413502N 0082854W	141M / 120M	Flashing Red Light
BRAVO - SERTA	WINDMILL (1/8)	395433N 0080311W	971M / 126M	By Day: flashing white light By Night: Fixed red light
BRAVO - SERTA	WINDMILL (2/8)	395411N 0080307W	956M / 126M	By Day: flashing white light By Night: Fixed red light
BRAVO - SERTA	WINDMILL (3/8)	395432N 0080253W	1006M / 126M	By Day: flashing white light By Night: Fixed red light
BRAVO - SERTA	WINDMILL (4/8)	395440N 0080243W	1011M / 126M	
BRAVO - SERTA	WINDMILL (5/8)	395449N 0080242W	1011M / 126M	By Day: flashing white light By Night: Fixed red light
BRAVO - SERTA	WINDMILL (6/8)	395423N 0080235W	991M / 126M	
BRAVO - SERTA	WINDMILL (7/8)	395418N 0080226W	986M / 126M	
BRAVO - SERTA	WINDMILL (8/8)	395414N 0080217W	951M / 126M	By Day: flashing white light By Night: Fixed red light
BULGUEIRA - RIBEIRA DE PENNA	WINDMILL (1/1)	413144N 0074311W	1167M / 136M	By Day: flashing white light By Night: Fixed red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
BUSTELO - CINFAES	AEOLIC PARK (1/9)	405936N 0075939W	1328.8M / 126M	By day: Flashing white light By night: Fixed Red Light
BUSTELO - CINFAES	AEOLIC PARK (2/9)	405959N 0075936W	1312.9M / 126M	
BUSTELO - CINFAES	AEOLIC PARK (3/9)	410005N 0075952W	1287.4M / 126M	
BUSTELO - CINFAES	AEOLIC PARK (4/9)	410011N 0075938W	1306.7M / 126M	By day: Flashing white light By night: Fixed Red Light
BUSTELO - CINFAES	AEOLIC PARK (5/9)	410018N 0075958W	1255.6M / 126M	By day: Flashing white light By night: Fixed Red Light
BUSTELO - CINFAES	AEOLIC PARK (6/9)	410028N 0080000W	1232.9M / 126M	
BUSTELO - CINFAES	AEOLIC PARK (7/9)	410039N 0075956W	1227.1M / 126M	By day: Flashing white light By night: Fixed Red Light
BUSTELO - CINFAES	AEOLIC PARK (8/9)	410019N 0075905W	1302.9M / 126M	
BUSTELO - CINFAES	AEOLIC PARK (9/9)	410028N 0075909W	1293.3M / 126M	By day: Flashing white light By night: Fixed Red Light
CABECO DE OIRO - TRANCOSO	WINDMILL (1/10)	404755N 0072108W	970M / 131M	By day: Flashing white light By night: Fixed red light
CABECO DE OIRO - TRANCOSO	WINDMILL (2/10)	404806N 0072102W	974M / 131M	
CABECO DE OIRO - TRANCOSO	WINDMILL (3/10)	404816N 0072102W	978M / 131M	
CABECO DE OIRO - TRANCOSO	WINDMILL (4/10)	404825N 0072058W	986M / 131M	By day: Flashing white light By night: Fixed red light
CABECO DE OIRO - TRANCOSO	WINDMILL (5/10)	404835N 0072054W	1003M / 131M	
CABECO DE OIRO - TRANCOSO	WINDMILL (6/10)	404843N 0072056W	1007M / 131M	
CABECO DE OIRO - TRANCOSO	WINDMILL (7/10)	404836N 0072119W	992M / 131M	By day: Flashing white light By night: Fixed red light
CABECO DE OIRO - TRANCOSO	WINDMILL (8/10)	404852N 0072055W	1017M / 131M	By day: Flashing white light By night: Fixed red light
CABECO DE OIRO - TRANCOSO	WINDMILL (9/10)	404857N 0072109W	1020M / 131M	
CABECO DE OIRO - TRANCOSO	WINDMILL (10/10)	404907N 0072057W	1010M / 131M	By day: Flashing white light By night: Fixed red light
CABRIL	WINDMILL (12/12)	405903N 0080319W	1318M / 176M	By day: Flashing white light By night: Fixed red light
CADAFAZ II - GOIS	AEOLIC PARK (1/9)	400709N 0080314W	994 M / 126M	By Day: flashing white light By Night: flashing red light
CADAFAZ II - GOIS	AEOLIC PARK (2/9)	400711N 0080305W	1024M / 126M	
CADAFAZ II - GOIS	AEOLIC PARK (3/9)	400714N 0080258W	1064M / 126M	
CADAFAZ II - GOIS	AEOLIC PARK (4/9)	400715N 0080248W	1072M / 126M	
CADAFAZ II - GOIS	AEOLIC PARK (5/9)	400715N 0080238W	1068M / 126M	By Day: flashing white light By Night: flashing red light
CADAFAZ II - GOIS	AEOLIC PARK (6/9)	400642N 0080222W	1109M / 126M	By Day: flashing white light By Night: flashing red light
CADAFAZ II - GOIS	AEOLIC PARK (7/9)	400653N 0080227W	1084M / 126M	By Day: flashing white light By Night: flashing red light
CADAFAZ II - GOIS	AEOLIC PARK (8/9)	400724N 0080237W	1019M / 126M	
CADAFAZ II - GOIS	AEOLIC PARK (9/9)	400733N 0080233W	976M / 126M	By Day: flashing white light By Night: flashing red light
CADRACO (TONDELA)	AEOLIC PARK (1/1)	403322N 0081142W	1047M / 100M	Fixed Red Light
CALDAS I (CALDAS DA RAINHA)	AEOLIC PARK (1/5)	391739N 0090105W	363M / 120M	Fixed Red Light
CALDAS I (CALDAS DA RAINHA)	AEOLIC PARK (2/5)	391740N 0090055W	367M / 120M	Fixed Red Light
CALDAS I (CALDAS DA RAINHA)	AEOLIC PARK (3/5)	391745N 0090050W	349M / 120M	Fixed Red Light
CALDAS I (CALDAS DA RAINHA)	AEOLIC PARK (4/5)	391740N 0090039W	372M / 120M	Fixed Red Light
CALDAS I (CALDAS DA RAINHA)	AEOLIC PARK (5/5)	391750N 0090038W	358M / 120M	Fixed Red Light
CANDAL (COELHEIRA)	AEOLIC PARK (1/20)	405043N 0081128W	1165M / 100M	By day: Flashing White Light By night: Flashing Red light
CANDAL (COELHEIRA)	AEOLIC PARK (2/20)	405041N 0081115W	1199M / 100M	
CANDAL (COELHEIRA)	AEOLIC PARK (3/20)	405040N 0081103W	1208M / 100M	
CANDAL (COELHEIRA)	AEOLIC PARK (4/20)	405035N 0081057W	1200M / 100M	By day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHEIRA)	AEOLIC PARK (5/20)	405031N 0081050W	1194M / 100M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
CANDAL (COELHOEIRA)	AEOLIC PARK (6/20)	405029N 0081041W	1193M / 100M	
CANDAL (COELHOEIRA)	AEOLIC PARK (7/20)	405023N 0081033W	1183M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOEIRA)	AEOLIC PARK (8/20)	405020N 0081025W	1187M / 100M	
CANDAL (COELHOEIRA)	AEOLIC PARK (9/20)	405016N 0081016W	1196M / 100M	
CANDAL (COELHOEIRA)	AEOLIC PARK (10/20)	405016N 0081007W	1170M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOEIRA)	AEOLIC PARK (11/20)	405038N 0080915W	1138M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOEIRA)	AEOLIC PARK (12/20)	405043N 0080909W	1154M / 100M	
CANDAL (COELHOEIRA)	AEOLIC PARK (13/20)	405043N 0080855W	1137M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOEIRA)	AEOLIC PARK (14/20)	405038N 0080849W	1141M / 100M	
CANDAL (COELHOEIRA)	AEOLIC PARK (15/20)	405034N 0080840W	1147M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOEIRA)	AEOLIC PARK (16/20)	405029N 0080833W	1157M / 100M	
CANDAL (COELHOEIRA)	AEOLIC PARK (17/20)	405020N 0080831W	1160M / 100M	
CANDAL (COELHOEIRA)	AEOLIC PARK (18/20)	405016N 0080824W	1145M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOEIRA)	AEOLIC PARK (19/20)	405001N 0080807W	1120M / 100M	
CANDAL (COELHOEIRA)	AEOLIC PARK (20/20)	404954N 0080801W	1136M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CAPUCHA (TORRES VEDRAS)	WINDMILL (1/6)	390338N 0091546W	302M / 121M	Fixed Red Light
CAPUCHA (TORRES VEDRAS)	WINDMILL (2/6)	390339N 0091540W	304M / 121M	Fixed Red Light
CAPUCHA (TORRES VEDRAS)	WINDMILL (3/6)	390338N 0091527W	301M / 121M	
CAPUCHA (TORRES VEDRAS)	WINDMILL (4/6)	390338N 0091518W	291M / 121M	
CAPUCHA (TORRES VEDRAS)	WINDMILL (5/6)	390340N 0091506W	291M / 121M	Fixed Red Light
CAPUCHA (TORRES VEDRAS)	WINDMILL (6/6)	390341N 0091454W	313M / 140M	By Day: Flashing White Light By Night: Flashing Red Light
CARAMULO	WINDMILL (1/4)	403606N 0080945W	1188M / 180M	By Day: flashing white light By Night: fixed red light
CARAMULO	WINDMILL (2/4)	403607N 0081025W	1141M / 180M	By Day: flashing white light By Night: fixed red light
CARAMULO	WINDMILL (3/4)	403551N 0080939W	1143M / 180M	
CARAMULO	WINDMILL (4/4)	403537N 0080946W	1134M / 180M	By Day: flashing white light By Night: fixed red light
CARAMULO - BEZERREIRA	WINDMILL (1/17)	403420N 0081235W	1034M / 101M	By Day: Flashing white light By Night: Fixed red light
CARAMULO - BEZERREIRA	WINDMILL (2/17)	403432N 0081219W	1063M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (3/17)	403438N 0081209W	1094M / 101M	By Day: Flashing white light By Night: Fixed Red light
CARAMULO - BEZERREIRA	WINDMILL (4/17)	403446N 0081156W	1085M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (5/17)	403436N 0081153W	1058M / 101M	By Day: Flashing white light By Night: Fixed Red light
CARAMULO - BEZERREIRA	WINDMILL (6/17)	403444N 0081238W	1000M / 101M	By Day: Flashing white light By Night: Fixed red light
CARAMULO - BEZERREIRA	WINDMILL (7/17)	403449N 0081223W	1015M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (8/17)	403454N 0081154W	1051M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (9/17)	403501N 0081229W	997M / 101M	By Day: Flashing white light By Night: Fixed red light
CARAMULO - BEZERREIRA	WINDMILL (10/17)	403459N 0081210W	1021M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (11/17)	403505N 0081158W	1019M / 101M	By Day: Flashing white light By Night: Fixed red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
CARAMULO - BEZERREIRA	WINDMILL (12/17)	403425N 0081115W	1069M / 101M	By Day: Flashing white light By Night: Fixed red light
CARAMULO - BEZERREIRA	WINDMILL (13/17)	403427N 0081107W	1075M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (14/17)	403439N 0081057W	1120M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (15/17)	403444N 0081049W	1129M / 101M	By Day: Flashing white light By Night: Fixed red light
CARAMULO - BEZERREIRA	WINDMILL (16/17)	403451N 0081040W	1124M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (17/17)	403456N 0081033W	1112M / 101M	By Day: Flashing white light By Night: Fixed red light
CARAMULO - CASELHO	WINDMILL (1/8)	403633N 0080935W	1063M / 101M	By Day: flashing white light By Night: flashing red light
CARAMULO - CASELHO	WINDMILL (2/8)	403633N 0080909W	1064M / 101M	
CARAMULO - CASELHO	WINDMILL (3/8)	403645N 0080853W	1043M / 101M	By Day: flashing white light By Night: flashing red light
CARAMULO - CASELHO	WINDMILL (4/8)	403717N 0080902W	1037M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - CASELHO	WINDMILL (5/8)	403722N 0080839W	1097M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - CASELHO	WINDMILL (6/8)	403730N 0080847W	1080M / 101M	
CARAMULO - CASELHO	WINDMILL (7/8)	403730N 0080905W	1057M / 119M	By Day: flashing white light By Night: fixed red light
CARAMULO - CASELHO	WINDMILL (8/8)	403617N 0080931W	1172M / 180M	
CARAMULO - FORNEL DO MONTE	WINDMILL (1/17)	403901N 0080653W	1056M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (2/17)	403853N 0080700W	1063M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (3/17)	403848N 0080733W	1101M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (4/17)	403846N 0080705W	1098M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (5/17)	403841N 0080712W	1141M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (6/17)	403841N 0080626W	1026M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (7/17)	403838N 0080740W	1112M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (8/17)	403831N 0080712W	1139M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (9/17)	403829N 0080740W	1128M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (10/17)	403824N 0080703W	1116M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (11/17)	403839N 0080719W	1121M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (12/17)	403824N 0080849W	1061M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (13/17)	403823N 0080732W	1121M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (14/17)	403820N 0080747W	1131M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (15/17)	403815N 0080846W	1101M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (16/17)	403753N 0080910W	1079M / 119M	
CARAMULO - FORNEL DO MONTE	WINDMILL (17/17)	403808N 0080920W	1061M / 119M	By Day: flashing white light By Night: fixed red light
CARAPINHEIRA DO CAMPO	MAST	401201N 0083010W	130M / 120M	Flashing Red Light
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (1/9)	414608N 0084814W	665M / 125M	Fixed Red Light
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (2/9)	414612N 0084825W	652M / 125M	
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (3/9)	414609N 0084835W	646M / 125M	
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (4/9)	414606N 0084847W	647M / 125M	Fixed Red Light
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (5/9)	414553N 0084840W	650M / 125M	Fixed red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (6/9)	414519N 0084918W	589M / 125M	Fixed Red Light
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (7/9)	414510N 0084936W	597M / 125M	Fixed Red Light
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (8/9)	414505N 0084947W	591M / 125M	
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (9/9)	414509N 0084958W	592M / 125M	Fixed Red Light
CARREGADO	Chimney	390046N 0085721W	105M / 100M	Flashing Red Light
CASAIS CINFAES	AEOLIC PARK (1/1)	410029N 0080457W	1250M / 120M	By Day: flashing white light By Night: flashing red light
CASTANHEIRA - MOGADOURO	WINDMILL (1/2)	412322N 0063631W	1081M / 118M	Fixed Red Light
CASTANHEIRA - MOGADOURO	WINDMILL (2/2)	412315N 0063638W	1076M / 118M	Fixed Red Light
CATEFICA (TORRES VEDRAS)	AEOLIC PARK (1/9)	390317N 0091406W	336M / 106M	Fixed Red Light
CATEFICA (TORRES VEDRAS)	AEOLIC PARK (2/9)	390308N 0091403W	344M / 106M	
CATEFICA (TORRES VEDRAS)	AEOLIC PARK (3/9)	390300N 0091402W	349M / 106M	Fixed Red Light
CATEFICA (TORRES VEDRAS)	AEOLIC PARK (4/9)	390251N 0091400W	356M / 106M	
CATEFICA (TORRES VEDRAS)	AEOLIC PARK (5/9)	390243N 0091357W	364M / 106M	
CATEFICA (TORRES VEDRAS)	AEOLIC PARK (6/9)	390232N 0091358W	375M / 106M	Fixed Red Light
CATEFICA (TORRES VEDRAS)	AEOLIC PARK (7/9)	390224N 0091355W	372M / 106M	
CATEFICA (TORRES VEDRAS)	AEOLIC PARK (8/9)	390216N 0091350W	383M / 106M	Fixed Red Light
CATEFICA (TORRES VEDRAS)	AEOLIC PARK (9/9)	390226N 0091324W	380M / 106M	Fixed Red Light
CHAMINE - SINES	AEOLIC PARK (1/3)	375156N 0084513W	259M / 125M	Fixed Red Light
CHAMINE - SINES	AEOLIC PARK (2/3)	375157N 0084504W	267M / 125M	
CHAMINE - SINES	AEOLIC PARK (3/3)	375155N 0084448W	256M / 125M	Fixed Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (1/15)	393702N 0084535W	573M / 125M	Flashing Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (2/15)	393646N 0084545W	591M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (3/15)	393649N 0084533W	609M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (4/15)	393649N 0084522W	608M / 125M	Flashing Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (5/15)	393633N 0084550W	585M / 125M	Flashing Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (6/15)	393628N 0084540W	616M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (7/15)	393634N 0084531W	612M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (8/15)	393634N 0084518W	604M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (9/15)	393608N 0084532W	559M / 125M	Flashing Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (10/15)	393616N 0084525W	585M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (11/15)	393616N 0084513W	603M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (12/15)	393622N 0084505W	588M / 125M	Flashing Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (13/15)	393628N 0084455W	583M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (14/15)	393634N 0084446W	595M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (15/15)	393634N 0084449W	604M / 125M	Flashing Red Light
CHAO DE FALCAO II - BATALHA	WINDMILL (1/11)	393714N 0084420W	550M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (2/11)	393701N 0084428W	570M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (3/11)	393712N 0084510W	573M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (4/11)	393719N 0084530W	518M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (5/11)	393737N 0084517W	531M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (6/11)	393742N 0084501W	547M / 125M	By Day: Flashing white light By Night: Flashing red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
CHAO DE FALCAO II - BATALHA	WINDMILL (7/11)	393836N 0084503W	525M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (8/11)	393856N 0084507W	535M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (9/11)	393901N 0084523W	504M / 125M	
CHAO DE FALCAO II - BATALHA	WINDMILL (10/11)	393906N 0084513W	493M / 125M	
CHAO DE FALCAO II - BATALHA	WINDMILL (11/11)	393915N 0084527W	485M / 125M	By Day: Flashing white light By Night: Flashing red light
CHIQUEIRO - PAMPILHOSA DA SERRA	AEOLIC PARK (1/2)	400919N 0074629W	1192M / 118M	By Day: Flashing white By night: Flashing red
CHIQUEIRO - PAMPILHOSA DA SERRA	AEOLIC PARK (2/2)	400857N 0074629W	1179M / 118M	By day: Flashing white By night: Flashing red
CINFAES - CINFAES	AEOLIC PARK (1/4)	410110N 0080538W	1253.3M / 126M	By day: Flashing white light By night: Fixed Red Light
CINFAES - CINFAES	AEOLIC PARK (2/4)	410113N 0080523W	1228.8M / 126M	By day: Flashing white light By night: Fixed Red Light
CINFAES - CINFAES	AEOLIC PARK (3/4)	410127N 0080524W	1210.4M / 126M	
CINFAES - CINFAES	AEOLIC PARK (4/4)	410139N 0080516W	1176.9M / 126M	By day: Flashing white light By night: Fixed Red Light
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (1/11)	400435N 0081124W	1107M / 107M	By Day: Flashing White Light By Night: Fixed Red Light
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (2/11)	400429N 0081126W	1116M / 107M	
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (3/11)	400423N 0081129W	1140M / 107M	
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (4/11)	400418N 0081134W	1152M / 107M	
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (5/11)	400412N 0081138W	1173M / 107M	By Day: Flashing White Light By Night: Fixed Red Light
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (6/11)	400409N 0081146W	1164M / 107M	
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (7/11)	400407N 0081155W	1162M / 107M	
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (8/11)	400402N 0081201W	1167M / 107M	
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (9/11)	400356N 0081204W	1166M / 107M	By Day: Flashing White Light By Night: Fixed Red Light
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (10/11)	400505N 0081105W	1230M / 150M	By Day: Flashing White Light By Night: Fixed Red Light
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (11/11)	400451N 0081117W	1191M / 150M	By Day: Flashing White Light By Night: Fixed Red Light
COIMBRA	MAST	401056N 0082726W	268M / 100M	
CONTIM - MONTALEGRE	AEOLIC PARK (1/5)	414659N 0075244W	1200M / 126M	By day: Flashing white light By night: Fixed Red Light
CONTIM - MONTALEGRE	AEOLIC PARK (2/5)	414649N 0075241W	1226M / 126M	
CONTIM - MONTALEGRE	AEOLIC PARK (3/5)	414642N 0075229W	1261M / 126M	
CONTIM - MONTALEGRE	AEOLIC PARK (4/5)	414636N 0075221W	1272M / 126M	By day: Flashing white light By night: Fixed Red Light
CONTIM - MONTALEGRE	AEOLIC PARK (5/5)	414626N 0075153W	1274M / 126M	By day: Flashing white light By night: Fixed Red Light
CRISTO REI	Monument	384033N 0091017W	224M / 110M	Fixed Red Light
DEGRACIAS - SOURE	WINDMILL (1/10)	400110N 0083144W	544M / 107M	
DEGRACIAS - SOURE	WINDMILL (2/10)	400116N 0083132W	550M / 107M	By Day: Flashing white light By Night: Flashing red light
DEGRACIAS - SOURE	WINDMILL (3/10)	400120N 0083124W	543M / 107M	
DEGRACIAS - SOURE	WINDMILL (4/10)	400126N 0083112W	544M / 107M	By Day: Flashing white light By Night: Flashing red light
DEGRACIAS - SOURE	WINDMILL (5/10)	400122N 0083059W	537M / 107M	
DEGRACIAS - SOURE	WINDMILL (6/10)	400129N 0083037W	562M / 107M	By Day: Flashing white light By Night: Flashing red light
DEGRACIAS - SOURE	WINDMILL (7/10)	400103N 0083147W	523M / 107M	By Day: Flashing white light By Night: Flashing red light
DEGRACIAS - SOURE	WINDMILL (8/10)	400141N 0083024W	619M / 107M	By Day: Flashing white light By Night: Flashing red light
DEGRACIAS - SOURE	WINDMILL (9/10)	400147N 0083004W	635M / 107M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
DEGRACIAS - SOURE	WINDMILL (10/10)	400157N 0083000W	610M / 107M	By Day: Flashing white light By Night: Flashing red light
ENERFER I - OLELAS - RETAXO - CASTELO BRANCO	WINDMILL (1/4)	394600N 0073443W	597M / 127M	By Day: Flashing White Light By Night: Fixed Red Light
ENERFER I - OLELAS - RETAXO - CASTELO BRANCO	WINDMILL (2/4)	394549N 0073437W	576M / 127M	
ENERFER I - OLELAS - RETAXO - CASTELO BRANCO	WINDMILL (3/4)	394542N 0073432W	574M / 127M	
ENERFER I - OLELAS - RETAXO - CASTELO BRANCO	WINDMILL (4/4)	394532N 0073432W	570M / 127M	By Day: Flashing White Light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (1/18)	414617N 0074945W	1240M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (2/18)	414621N 0074954W	1272M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (3/18)	414626N 0075003W	1276M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (4/18)	414639N 0075009W	1272M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (5/18)	414652N 0075016W	1294M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (6/18)	414650N 0075049W	1294M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (7/18)	414652N 0075105W	1282M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (8/18)	414709N 0075030W	1314M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (9/18)	414717N 0075059W	1286M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (10/18)	414724N 0075112W	1296M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (11/18)	414743N 0075027W	1290M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (12/18)	414721N 0075008W	1366M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (13/18)	414729N 0075006W	1406M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (14/18)	414737N 0074959W	1346M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (15/18)	414729N 0074938W	1356M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (16/18)	414740N 0074922W	1382M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (17/18)	414734N 0074911W	1364M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (18/18)	414724N 0074905W	1316M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (1/22)	412410N 0073935W	1137M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (2/22)	412422N 0073938W	1132M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (3/22)	412437N 0073850W	1203M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (4/22)	412442N 0073902W	1200M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (5/22)	412448N 0073911W	1192M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (6/22)	412441N 0073807W	1222M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (7/22)	412450N 0073800W	1247M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (8/22)	412458N 0073756W	1237M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (9/22)	412506N 0073832W	1223M / 126M	By Day: Flashing White Light By Night: Fixed Red Light



Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (10/22)	412513N 0073840W	1237M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (11/22)	412519N 0073848W	1244M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (12/22)	412611N 0073907W	1125M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (13/22)	412618N 0073858W	1133M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (14/22)	412625N 0073849W	1132M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (15/22)	412647N 0073836W	1151M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (16/22)	412655N 0073837W	1160M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (17/22)	412703N 0073832W	1144M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (18/22)	412626N 0073803W	1126M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (19/22)	412635N 0073806W	1133M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (20/22)	412643N 0073806W	1131M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (21/22)	412654N 0073803W	1149M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (22/22)	412706N 0073807W	1153M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (1/11)	385347N 0090912W	397M / 158M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (2/11)	385346N 0090859W	393M / 147M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (3/11)	385342N 0090851W	403M / 140M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (4/11)	385345N 0090840W	395M / 96M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (5/11)	385336N 0090803W	451M / 158M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (6/11)	385327N 0090858W	397M / 140M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (7/11)	385323N 0090842W	404M / 140M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (8/11)	385245N 0090848W	403M / 158M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (9/11)	385249N 0090841W	408M / 158M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (10/11)	385251N 0090834W	407M / 147M	Red Stripes in the propeller blades Fixed Red Light
FELGAR-BULHEIRAS - MONCORVO	AEOLIC PARK (1/4)	411006N 0065931W	1008M / 118M	Red stripes in propeller blades By Night: Fixed Red Light
FELGAR-BULHEIRAS - MONCORVO	AEOLIC PARK (2/4)	411012N 0065912W	1008M / 118M	
FELGAR-BULHEIRAS - MONCORVO	AEOLIC PARK (3/4)	411018N 0065844W	1008M / 118M	Red stripes in propeller blades By Night: Fixed Red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
FELGAR-BULHEIRAS - MONCORVO	AEOLIC PARK (4/4)	411019N 0065811W	978M / 118M	Red stripes in propeller blades By Night: Fixed Red Light
FERREL (PENICHE)	TOWER	392309N 0091533W	126M / 100M	Fixed Red Light
FONTE DA MESA - LAMEGO	WINDMILL (18/18)	410608N 0075124W	1226M / 145M	By Day: Flashing white light By Night: Fixed Red Light
FONTE DA MESA II - LAMEGO	WINDMILL (1/6)	410455N 0075228W	1151M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FONTE DA MESA II - LAMEGO	WINDMILL (2/6)	410500N 0075221W	1164M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FONTE DA MESA II - LAMEGO	WINDMILL (3/6)	410532N 0075257W	1166M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FONTE DA MESA II - LAMEGO	WINDMILL (4/6)	410548N 0075148W	1218M / 126M	
FONTE DA MESA II - LAMEGO	WINDMILL (5/6)	410558N 0075243W	1234M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FONTE DA MESA II - LAMEGO	WINDMILL (6/6)	410555N 0075130W	1254M / 176M	By Day: Flashing white light By Night: Fixed Red Light
FONTE DA QUELHA (CINFAES)	AEOLIC PARK (1/9)	410102N 0080553W	1286M / 138M	Fixed Red Light
FONTE DA QUELHA (CINFAES)	AEOLIC PARK (2/9)	410018N 0080614W	1272M / 100M	Fixed Red Light
FONTE DA QUELHA (CINFAES)	AEOLIC PARK (3/9)	410025N 0080609W	1313M / 100M	
FONTE DA QUELHA (CINFAES)	AEOLIC PARK (4/9)	410034N 0080605W	1304M / 100M	
FONTE DA QUELHA (CINFAES)	AEOLIC PARK (5/9)	410042N 0080602W	1302M / 100M	
FONTE DA QUELHA (CINFAES)	AEOLIC PARK (6/9)	410037N 0080618W	1261M / 100M	Fixed Red Light
FONTE DA QUELHA (CINFAES)	AEOLIC PARK (7/9)	410046N 0080615W	1261M / 100M	
FONTE DA QUELHA (CINFAES)	AEOLIC PARK (8/9)	410049N 0080555W	1287M / 100M	
FONTE DA QUELHA (CINFAES)	AEOLIC PARK (9/9)	410052N 0080541W	1275M / 100M	Fixed Red Light
GALO-RAINHA	WINDMILL (1/11)	403602N 0071410W	1101M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (2/11)	403615N 0071352W	1111M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (3/11)	403631N 0071349W	1113M / 150M	
GALO-RAINHA	WINDMILL (4/11)	403642N 0071334W	1084M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (5/11)	403653N 0071327W	1075M / 150M	
GALO-RAINHA	WINDMILL (6/11)	403703N 0071332W	1072M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (7/11)	403730N 0071315W	1062M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (8/11)	403741N 0071306W	1077M / 150M	
GALO-RAINHA	WINDMILL (9/11)	403754N 0071302W	1077M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (10/11)	403812N 0071234W	1040M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (11/11)	403823N 0071229W	1013M / 150M	By Day: flashing white light By Night: Fixed red light
GARDUNHA	WINDMILL (1/62)	400632N 0073804W	969M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (2/62)	400615N 0073828W	979M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (3/62)	400607N 0073839W	1021M / 119M	
GARDUNHA	WINDMILL (4/62)	400600N 0073849W	1063M / 119M	
GARDUNHA	WINDMILL (5/62)	400553N 0073856W	1119M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (6/62)	400558N 0073910W	1081M / 119M	
GARDUNHA	WINDMILL (7/62)	400543N 0073856W	1099M / 119M	
GARDUNHA	WINDMILL (8/62)	400533N 0073901W	1099M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (9/62)	400515N 0073854W	1079M / 119M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
GARDUNHA	WINDMILL (10/62)	400506N 0073904W	1089M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (11/62)	400453N 0073829W	1009M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (12/62)	400444N 0073808W	1049M / 119M	
GARDUNHA	WINDMILL (13/62)	400448N 0073756W	1039M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (14/62)	400453N 0073746W	1019M / 119M	
GARDUNHA	WINDMILL (15/62)	400452N 0073729W	1027M / 119M	
GARDUNHA	WINDMILL (16/62)	400454N 0073719W	1049M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (17/62)	400457N 0073709W	1052M / 119M	
GARDUNHA	WINDMILL (18/62)	400501N 0073700W	1031M / 119M	
GARDUNHA	WINDMILL (19/62)	400500N 0073649W	1009M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (20/62)	400459N 0073631W	1031M / 119M	
GARDUNHA	WINDMILL (21/62)	400459N 0073620W	1069M / 119M	
GARDUNHA	WINDMILL (22/62)	400455N 0073604W	1083M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (23/62)	400507N 0073557W	1059M / 119M	
GARDUNHA	WINDMILL (24/62)	400515N 0073551W	1049M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (25/62)	400521N 0073545W	1019M / 119M	
GARDUNHA	WINDMILL (26/62)	400523N 0073534W	990M / 119M	
GARDUNHA	WINDMILL (27/62)	400528N 0073526W	979M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (28/62)	400425N 0073912W	949M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (29/62)	400421N 0073921W	951M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (30/62)	400409N 0073955W	1009M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (31/62)	400406N 0074004W	1007M / 119M	
GARDUNHA	WINDMILL (32/62)	400359N 0074008W	1009M / 119M	
GARDUNHA	WINDMILL (33/62)	400344N 0074014W	1004M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (34/62)	400337N 0074021W	1023M / 119M	
GARDUNHA	WINDMILL (35/62)	400329N 0074026W	1029M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (36/62)	400322N 0074030W	1029M / 119M	
GARDUNHA	WINDMILL (37/62)	400311N 0074046W	1029M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (38/62)	400304N 0074050W	1059M / 119M	
GARDUNHA	WINDMILL (39/62)	400254N 0074057W	1059M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (40/62)	400247N 0074100W	1059M / 119M	
GARDUNHA	WINDMILL (41/62)	400237N 0074108W	1020M / 119M	
GARDUNHA	WINDMILL (42/62)	400220N 0074138W	989M / 99M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (43/62)	400202N 0074243W	1109M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (44/62)	400218N 0074243W	1061M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (45/62)	400148N 0074230W	1182M / 99M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (46/62)	400142N 0074233W	1209M / 119M	
GARDUNHA	WINDMILL (47/62)	400138N 0074243W	1199M / 119M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
GARDUNHA	WINDMILL (48/62)	400132N 0074248W	1164M / 119M	
GARDUNHA	WINDMILL (49/62)	400126N 0074255W	1149M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (50/62)	400404N 0073422W	1019M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (51/62)	400421N 0073405W	1049M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (52/62)	400425N 0073350W	1070M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (53/62)	400503N 0074145W	949M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (54/62)	400527N 0074136W	979M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (55/62)	400540N 0074106W	979M / 119M	
GARDUNHA	WINDMILL (56/62)	400548N 0074034W	1009M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (57/62)	400549N 0074023W	1012M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (58/62)	400441N 0073835W	1064M / 179M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (59/62)	400432N 0073856W	1009M / 180M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (60/62)	400228N 0074122W	1029M / 181M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (61/62)	400115N 0074303W	1134M / 182M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (62/62)	400109N 0074319W	1089M / 183M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA II	WINDMILL (1/5)	395939N 0074429W	1084M / 180M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA II	WINDMILL (2/5)	395932N 0074443W	1058M / 180M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA II	WINDMILL (3/5)	395935N 0074402W	1030M / 180M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA II	WINDMILL (4/5)	395918N 0074406W	1020M / 180M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA II	WINDMILL (5/5)	395907N 0074412W	987M / 180M	By day: Flashing White lights By night: Fixed Red lights
GEVANCAS II	WINDMILL (1/6)	412439N 0074722W	1401M / 126M	By Day: Flashing white light By Night: Fixed red light
GEVANCAS II	WINDMILL (2/6)	412428N 0074729W	1386M / 126M	
GEVANCAS II	WINDMILL (3/6)	412420N 0074734W	1372M / 126M	By Day: Flashing white light By Night: Fixed red light
GEVANCAS II	WINDMILL (4/6)	412412N 0074737W	1379M / 126M	
GEVANCAS II	WINDMILL (5/6)	412403N 0074744W	1382M / 126M	By Day: Flashing white light By Night: Fixed red light
GEVANCAS II	WINDMILL (6/6)	412359N 0074759W	1335M / 111M	By Day: Flashing white light By Night: Fixed red light
GLORIA	MAST	390156N 0083905W	185M / 137M	Fixed Red Light
GUARDA, GUARDA	AEOLIC PARK (1/4)	403313N 0071705W	1090M / 119M	By Day: flashing white light By Night: Fixed red light
GUARDA, GUARDA	AEOLIC PARK (2/4)	403321N 0071659W	1101M / 119M	
GUARDA, GUARDA	AEOLIC PARK (3/4)	403329N 0071654W	1102M / 119M	
GUARDA, GUARDA	AEOLIC PARK (4/4)	403337N 0071648W	1108M / 119M	By Day: flashing white light By Night: Fixed red light
GUERREIROS - ALJEZUR/LAGOS	AEOLIC PARK (1/9)	371326N 0084548W	346M / 100M	By day: Flashing white light By night: Fixed Red Light
GUERREIROS - ALJEZUR/LAGOS	AEOLIC PARK (2/9)	371327N 0084539W	347M / 100M	
GUERREIROS - ALJEZUR/LAGOS	AEOLIC PARK (3/9)	371331N 0084529W	346M / 100M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
GUERREIROS - ALJEZUR/LAGOS	AEOLIC PARK (4/9)	371338N 0084523W	354M / 100M	By day: Flashing white light By night: Fixed Red Light
GUERREIROS - ALJEZUR/LAGOS	AEOLIC PARK (5/9)	371335N 0084510W	331M / 100M	
GUERREIROS - ALJEZUR/LAGOS	AEOLIC PARK (6/9)	371340N 0084501W	308M / 100M	By day: Flashing white light By night: Fixed Red Light
GUERREIROS - ALJEZUR/LAGOS	AEOLIC PARK (7/9)	371248N 0084825W	295M / 119M	By day: Flashing white light By night: Fixed Red Light
GUERREIROS - ALJEZUR/LAGOS	AEOLIC PARK (8/9)	371246N 0084814W	301M / 119M	
GUERREIROS - ALJEZUR/LAGOS	AEOLIC PARK (9/9)	371247N 0084805W	307M / 119M	By day: Flashing white light By night: Fixed Red Light
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (1/18)	410239N 0075558W	1253M / 120M	By Day: Red Stripes in propeller blades By Night: Red Light
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (2/18)	410233N 0075605W	1243M / 120M	By day: Red Stripes in propeller blades By night: Red light
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (3/18)	410223N 0075614W	1228M / 120M	
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (4/18)	410219N 0075626W	1223M / 120M	
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (5/18)	410211N 0075633W	1212M / 120M	
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (6/18)	410200N 0075619W	1241M / 120M	By Day: Red Stripes in propeller blades By Night: Red Light
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (7/18)	410230N 0075528W	1295M / 120M	By Day: Red Stripes in propeller blades By Night: Red Light
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (8/18)	410156N 0075544W	1281M / 120M	By Day: Red Stripes in propeller blades By Night: Red Light
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (9/18)	410148N 0075538W	1283M / 120M	
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (10/18)	410143N 0075547W	1288M / 120M	By Day: Red Stripes in propeller blades By Night: Red Light
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (11/18)	410139N 0075555W	1284M / 120M	
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (12/18)	410127N 0075601W	1296M / 120M	By Day: Red Stripes in propeller blades By Night: Red Light
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (13/18)	410127N 0075612W	1298M / 120M	
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (14/18)	410135N 0075636W	1271M / 120M	
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (15/18)	410136N 0075627W	1305M / 120M	
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (16/18)	410129N 0075643W	1264M / 120M	By Day: Red Stripes in propeller blades By Night: Red Light
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (17/18)	410143N 0075629W	1273M / 120M	By Day: Red Stripes in propeller blades By Night: Red Light
LAGOA D.JOAO FEIRAO - RESENDE	WINDMILL (18/18)	410237N 0075543W	1339M / 198M	By Day: Flashing white light By Night: Flashing red light
LAGOA FUNDA - VILA DO BISPO	WINDMILL (1/6)	370743N 0085256W	261M / 125M	By Day: Flashing white light By Night: Flashing red light
LAGOA FUNDA - VILA DO BISPO	WINDMILL (2/6)	370727N 0085257W	261M / 125M	By Day: Flashing white light By Night: Flashing red light
LAGOA FUNDA - VILA DO BISPO	WINDMILL (3/6)	370725N 0085312W	261M / 125M	By Day: Flashing white light
LAGOA FUNDA - VILA DO BISPO	WINDMILL (4/6)	370718N 0085321W	260M / 125M	By Day: Flashing white light By Night: Flashing red light
LAGOA FUNDA - VILA DO BISPO	WINDMILL (5/6)	370703N 0085304W	263M / 125M	
LAGOA FUNDA - VILA DO BISPO	WINDMILL (6/6)	370655N 0085314W	260M / 125M	By Day: Flashing white light By Night: Flashing red light
LEOMIL - MOIMENTA DA BEIRA	WINDMILL (1/7)	405748N 0074004W	1104M / 125M	By Day: Red painting on blades edges By Night: Fixed Red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
LEOMIL - MOIMENTA DA BEIRA	WINDMILL (2/7)	405744N 0073954W	1116M / 125M	
LEOMIL - MOIMENTA DA BEIRA	WINDMILL (3/7)	405738N 0073945W	1119M / 125M	By Day: Red painting on blades edges By Night: Fixed Red Light
LEOMIL - MOIMENTA DA BEIRA	WINDMILL (4/7)	405724N 0073926W	1126M / 125M	
LEOMIL - MOIMENTA DA BEIRA	WINDMILL (5/7)	405734N 0073914W	1112M / 125M	By Day: Red painting on blades edges By Night: Fixed Red Light
LEOMIL - MOIMENTA DA BEIRA	WINDMILL (6/7)	405734N 0073911W	1105M / 125M	
LEOMIL - MOIMENTA DA BEIRA	WINDMILL (7/7)	405746N 0073912W	1089M / 125M	By Day: Red painting on blades edges By Night: Fixed Red Light
LOMBA DO VALE (MONTALEGRE - CABECEIRAS DE BASTO)	WINDMILL (1/10)	413555N 0075855W	1306M / 125M	By Day: Flashing white light By Night: Fixed red light
LOMBA DO VALE (MONTALEGRE - CABECEIRAS DE BASTO)	WINDMILL (2/10)	413615N 0075905W	1265M / 125M	
LOMBA DO VALE (MONTALEGRE - CABECEIRAS DE BASTO)	WINDMILL (3/10)	413603N 0075859W	1307M / 125M	
LOMBA DO VALE (MONTALEGRE - CABECEIRAS DE BASTO)	WINDMILL (4/10)	413546N 0075853W	1229M / 125M	By Day: Flashing white light By Night: Fixed red light
LOMBA DO VALE (MONTALEGRE - CABECEIRAS DE BASTO)	WINDMILL (5/10)	413536N 0075850W	1250M / 125M	By Day: Flashing white light By Night: Fixed red light
LOMBA DO VALE (MONTALEGRE - CABECEIRAS DE BASTO)	WINDMILL (6/10)	413640N 0080013W	1245M / 125M	By Day: Flashing white light By Night: Fixed red light
LOMBA DO VALE (MONTALEGRE - CABECEIRAS DE BASTO)	WINDMILL (7/10)	413609N 0075923W	1251M / 125M	By Day: Flashing white light By Night: Fixed red light
LOMBA DO VALE (MONTALEGRE - CABECEIRAS DE BASTO)	WINDMILL (8/10)	413600N 0075947W	1206M / 125M	By Day: Flashing white light By Night: Fixed red light
LOMBA DO VALE (MONTALEGRE - CABECEIRAS DE BASTO)	WINDMILL (9/10)	413540N 0075935W	1165M / 125M	By Day: Flashing white light By Night: Fixed red light
LOMBA DO VALE (MONTALEGRE - CABECEIRAS DE BASTO)	WINDMILL (10/10)	413644N 0075955W	1271M / 178M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (1/10)	391657N 0091643W	256M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (2/10)	391706N 0091604W	261M / 126M	
LOURINHA I - LOURINHA	WINDMILL (3/10)	391709N 0091621W	260M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (4/10)	391832N 0091529W	266M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (5/10)	391747N 0091557W	266M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (6/10)	391759N 0091638W	256M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (7/10)	391819N 0091633W	256M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (8/10)	391812N 0091553W	257M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (9/10)	391756N 0091520W	266M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (10/10)	391607N 0091615W	325M / 180M	By Day: Flashing white light By Night: Fixed red light
LOURINHÀ II	WINDMILL (1/10)	391555N 0091453W	310M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHÀ II	WINDMILL (2/10)	391557N 0091445W	316M / 126M	
LOURINHÀ II	WINDMILL (3/10)	391601N 0091438W	319M / 126M	
LOURINHÀ II	WINDMILL (4/10)	391602N 0091426W	319M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHÀ II	WINDMILL (5/10)	391601N 0091417W	326M / 126M	
LOURINHÀ II	WINDMILL (6/10)	391556N 0091408W	316M / 126M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
LOURINHÁ II	WINDMILL (7/10)	391553N 0091357W	308M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHÁ II	WINDMILL (8/10)	391554N 0091343W	307M / 126M	
LOURINHÁ II	WINDMILL (9/10)	391552N 0091333W	310M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHÁ II	WINDMILL (10/10)	391601N 0091551W	347M / 180M	By Day: Flashing white light By Night: Fixed red light
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (1/14)	400616N 0081233W	1054M / 129M	By Day: Flashing white light By Night: Fixed red light
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (2/14)	400618N 0081215W	1033M / 129M	
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (3/14)	400624N 0081202W	1088M / 129M	
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (4/14)	400623N 0081151W	1100M / 129M	By Day: Flashing white light By Night: Fixed red light
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (5/14)	400603N 0081046W	1208M / 129M	By Day: Flashing white light By Night: Fixed red light
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (6/14)	400611N 0081043W	1153M / 129M	
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (7/14)	400618N 0081038W	1111M / 129M	
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (8/14)	400630N 0081025W	1023M / 129M	By Day: Flashing white light By Night: Fixed red light
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (9/14)	400637N 0081019W	982M / 129M	
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (10/14)	400644N 0081013W	969M / 129M	
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (11/14)	400652N 0081009W	956M / 129M	By Day: Flashing white light By Night: Fixed red light
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (12/14)	400700N 0081009W	912M / 129M	
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (13/14)	400709N 0081010W	916M / 129M	
LOUSĂ I (LOUSĂ - GÓIS)	AEOLIC PARK (14/14)	400718N 0081011W	895M / 129M	By Day: Flashing white light By Night: Fixed red light
LPPR 19	TOWER	411233N 0084238W	118M / 101M	By Day: Red and White Stripes By Night: Fixed red light
LPPR 20	TOWER	411240N 0084238W	118M / 101M	By Day: Red and White Stripes By Night: Fixed red light
LPPR 21	TOWER	411240N 0084239W	117M / 101M	By Day: Red and White Stripes By Night: Fixed red light
LPPR 22	TOWER	411247N 0084239W	116M / 100M	By Day: Red and White Stripes By Night: Fixed red light
LPPR 23	TOWER	411248N 0084243W	115M / 101M	By Day: Red and White Stripes By Night: Fixed red light
LPPR 24	TOWER	411251N 0084239W	117M / 101M	By Day: Red and White Stripes By Night: Fixed red light
LPPR 27	TOWER	411309N 0084235W	118M / 100M	By Day: Red and White Stripes By Night: Fixed red light
LPPR 28	TOWER	411315N 0084227W	137M / 116M	Red and White Stripes
MAFOMEDES	WINDMILL (1/2)	411320N 0075522W	1213M / 124M	By day: Flashing white light By night: Fixed red light
MAFOMEDES	WINDMILL (2/2)	411312N 0075528W	1234M / 124M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
MALHADIZES - PENELA	AEOLIC PARK (1/6)	400104N 0081735W	954M / 100M	By day: Flashing white By night: Fixed red
MALHADIZES - PENELA	AEOLIC PARK (2/6)	400101N 0081747W	967M / 100M	By day: Flashing white By night: Fixed red
MALHADIZES - PENELA	AEOLIC PARK (3/6)	400054N 0081751W	961M / 100M	By day: Flashing white By night: Fixed red
MALHADIZES - PENELA	AEOLIC PARK (4/6)	400046N 0081754W	959M / 100M	By day: Flashing white By night: Fixed red
MALHADIZES - PENELA	AEOLIC PARK (5/6)	400039N 0081753W	943M / 100M	By day: Flashing white By night: Fixed red
MALHADIZES - PENELA	AEOLIC PARK (6/6)	400030N 0081755W	948M / 100M	By day: Flashing white By night: Fixed red
MALHANITO - TAVIRA	WINDMILL (1/29)	371631N 0075318W	630M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (2/29)	371632N 0075306W	663M / 126M	
MALHANITO - TAVIRA	WINDMILL (3/29)	371629N 0075258W	658M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (4/29)	371626N 0075246W	646M / 126M	
MALHANITO - TAVIRA	WINDMILL (5/29)	371620N 0075236W	648M / 126M	
MALHANITO - TAVIRA	WINDMILL (6/29)	371623N 0075227W	654M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (7/29)	371623N 0075123W	651M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (8/29)	371634N 0075116W	663M / 126M	
MALHANITO - TAVIRA	WINDMILL (9/29)	371632N 0075106W	656M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (10/29)	371829N 0075111W	613M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (11/29)	371828N 0075100W	628M / 126M	
MALHANITO - TAVIRA	WINDMILL (12/29)	371824N 0075045W	636M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (13/29)	371818N 0075034W	643M / 126M	
MALHANITO - TAVIRA	WINDMILL (14/29)	371819N 0075024W	630M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (15/29)	371916N 0074833W	607M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (16/29)	371914N 0074821W	620M / 126M	
MALHANITO - TAVIRA	WINDMILL (17/29)	371919N 0074813W	611M / 126M	
MALHANITO - TAVIRA	WINDMILL (18/29)	371925N 0074805W	582M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (19/29)	371911N 0074747W	582M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (20/29)	371917N 0074721W	567M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (21/29)	371926N 0074715W	580M / 126M	
MALHANITO - TAVIRA	WINDMILL (22/29)	371928N 0074704W	581M / 126M	
MALHANITO - TAVIRA	WINDMILL (23/29)	371931N 0074654W	578M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (24/29)	371935N 0074645W	565M / 126M	
MALHANITO - TAVIRA	WINDMILL (25/29)	371943N 0074634W	567M / 126M	
MALHANITO - TAVIRA	WINDMILL (26/29)	371950N 0074628W	561M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (27/29)	371938N 0074611W	546M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (28/29)	371942N 0074601W	535M / 126M	By day: Flashing white Light By night: Fixed red Light
MALHANITO - TAVIRA	WINDMILL (29/29)	371951N 0074528W	501M / 126M	By day: Flashing white Light By night: Fixed red Light
MANIQUE (MAFRA)	AEOLIC PARK (1/2)	385345N 0091414W	525M / 100M	Fixed Red Light



Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
MARAVILHA1 - TORRES VEDRAS	AEOLIC PARK (1/3)	390420N 0091317W	306M / 126M	By Day: Flashing white light By Night: Fixed red light
MARAVILHA1 - TORRES VEDRAS	AEOLIC PARK (2/3)	390414N 0091325W	306M / 126M	By Day: Flashing white light By Night: Fixed red light
MARAVILHA1 - TORRES VEDRAS	AEOLIC PARK (3/3)	390409N 0091332W	305M / 126M	By Day: Flashing white light By Night: Fixed red light
MARAVILHA2 - RUNA - TORRES VEDRAS	AEOLIC PARK (1/2)	390320N 0091157W	307M / 126M	By Day: Flashing white light By Night: Fixed red light
MARAVILHA2 - RUNA - TORRES VEDRAS	AEOLIC PARK (2/2)	390328N 0091159W	307M / 126M	By Day: Flashing white light By Night: Fixed red light
MAXOQUEIRA	MAST	385636N 0084535W	150M / 120M	Fixed Red Light
MEADAS	WINDMILL (1/3)	410640N 0075139W	1120M / 125M	By Day: Flashing white light By Night: Fixed red light
MEADAS	WINDMILL (2/3)	410647N 0075115W	1109M / 125M	By Day: Flashing white light By Night: Fixed red light
MEADAS	WINDMILL (3/3)	410654N 0075050W	1096M / 125M	By Day: Flashing white light By Night: Fixed red light
MEROICINHA II (VILA REAL)	AEOLIC PARK (1/6)	412345N 0074440W	1388M / 125M	By day: Flashing white light By night: Fixed red
MEROICINHA II (VILA REAL)	AEOLIC PARK (2/6)	412333N 0074441W	1395M / 125M	By day: Flashing white light By night: Fixed red
MEROICINHA II (VILA REAL)	AEOLIC PARK (3/6)	412316N 0074458W	1397M / 125M	
MEROICINHA II (VILA REAL)	AEOLIC PARK (4/6)	412304N 0074504W	1377M / 125M	By day: Flashing white light By night: Fixed red
MEROICINHA II (VILA REAL)	AEOLIC PARK (5/6)	412255N 0074506W	1378M / 125M	
MEROICINHA II (VILA REAL)	AEOLIC PARK (6/6)	412247N 0074511W	1376M / 125M	By day: Flashing white light By night: Fixed red
MILAGRES - DOIS PORTOS - TORRES VEDRAS	AEOLIC PARK (1/3)	390203N 0090833W	418M / 126M	By Day: Flashing white light By Night: Fixed red light
MILAGRES - DOIS PORTOS - TORRES VEDRAS	AEOLIC PARK (2/3)	390207N 0090825W	411M / 126M	By Day: Flashing white light By Night: Fixed red light
MILAGRES - DOIS PORTOS - TORRES VEDRAS	AEOLIC PARK (3/3)	390207N 0090812W	405M / 126M	By Day: Flashing white light By Night: Fixed red light
MOINHO DOS VALERIOS - LOURES	WINDMILL	385318N 0091202W	417M / 121M	By day: Flashing white light By night: Fixed red light
MONSANTO 1	ANTENNA	384338N 0091121W	302M / 117M	Fixed red
MONTALEGRE - MONTALEGRE	AEOLIC PARK (1/29)	414305N 0075803W	1066M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (2/29)	414318N 0075803W	1096M / 126M	
MONTALEGRE - MONTALEGRE	AEOLIC PARK (3/29)	414326N 0075802W	1118M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (4/29)	414334N 0075802W	1122M / 126M	
MONTALEGRE - MONTALEGRE	AEOLIC PARK (5/29)	414343N 0075759W	1120M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (6/29)	414353N 0075735W	1201M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (7/29)	414405N 0075724W	1222M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (8/29)	414327N 0075631W	1155M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (9/29)	414335N 0075637W	1185M / 126M	
MONTALEGRE - MONTALEGRE	AEOLIC PARK (10/29)	414341N 0075648W	1240M / 126M	
MONTALEGRE - MONTALEGRE	AEOLIC PARK (11/29)	414348N 0075650W	1260M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (12/29)	414356N 0075650W	1276M / 126M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
MONTALEGRE - MONTALEGRE	AEOLIC PARK (13/29)	414405N 0075650W	1290M / 126M	
MONTALEGRE - MONTALEGRE	AEOLIC PARK (14/29)	414413N 0075649W	1298M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (15/29)	414429N 0075641W	1311M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (16/29)	414436N 0075619W	1301M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (17/29)	414419N 0075559W	1286M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (18/29)	414524N 0075540W	1242M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (19/29)	414532N 0075517W	1278M / 126M	
MONTALEGRE - MONTALEGRE	AEOLIC PARK (20/29)	414534N 0075451W	1282M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (21/29)	414542N 0075449W	1308M / 126M	
MONTALEGRE - MONTALEGRE	AEOLIC PARK (22/29)	414550N 0075449W	1279M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (23/29)	414557N 0075417W	1271M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (24/29)	414546N 0075355W	1244M / 126M	
MONTALEGRE - MONTALEGRE	AEOLIC PARK (25/29)	414539N 0075351W	1236M / 126M	By Day: Flashing white light By Night: Fixed Red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (26/29)	414320N 0075628W	1106M / 126M	By Day: Flashing white light By Night: Fixed red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (27/29)	414406N 0075547W	1226M / 126M	By Day: Flashing white light By Night: Fixed red Light
MONTALEGRE - MONTALEGRE	AEOLIC PARK (28/29)	414411N 0075555W	1256M / 126M	
MONTALEGRE - MONTALEGRE	AEOLIC PARK (29/29)	414427N 0075601W	1286M / 126M	By Day: Flashing white light By Night: Fixed red Light
MONTE DA VIRGEM	MAST	410638N 0083553W	370M / 175M	Fixed Red Light
MONTE DAS PIAS PORTO COVO (SINES)	AEOLIC PARK (1/5)	375126N 0084338W	326M / 141M	Fixed Red Light
MONTE DAS PIAS PORTO COVO (SINES)	AEOLIC PARK (2/5)	375126N 0084351W	329M / 141M	Fixed Red Light
MONTE DAS PIAS PORTO COVO (SINES)	AEOLIC PARK (3/5)	375115N 0084351W	314M / 141M	
MONTE DAS PIAS PORTO COVO (SINES)	AEOLIC PARK (4/5)	375107N 0084352W	316M / 141M	Fixed Red Light
MONTE DAS PIAS PORTO COVO (SINES)	AEOLIC PARK (5/5)	375057N 0084345W	327M / 141M	Fixed Red Light
MONTEMOR-O-VELHO	MAST	401156N 0083805W	141M / 120M	Fixed Red Light
MONTIJO II (SOBRAL MONTE AGRACO)	AEOLIC PARK (1/1)	390119N 0090822W	431M / 121M	Flashing Red Light
MOSQUEIROS - GUARDA	AEOLIC PARK (1/4)	402722N 0072111W	1253M / 119M	By Day: flashing white light By Night: fixed red light
MOSQUEIROS - GUARDA	AEOLIC PARK (2/4)	402729N 0072100W	1242M / 119M	By Day: flashing white light By Night: fixed red light
MOSQUEIROS - GUARDA	AEOLIC PARK (3/4)	402738N 0072045W	1228M / 119M	
MOSQUEIROS - GUARDA	AEOLIC PARK (4/4)	402743N 0072028W	1234M / 119M	By Day: flashing white light By Night: fixed red light
MOSQUEIROS II -GUARDA	AEOLIC PARK (1/12)	402714N 0072121W	1266M / 126M	
MOSQUEIROS II -GUARDA	AEOLIC PARK (2/12)	402708N 0072127W	1266M / 126M	By Day: Flashing white light By Night: Fixed red light
MOSQUEIROS II -GUARDA	AEOLIC PARK (3/12)	402650N 0072131W	1266M / 126M	
MOSQUEIROS II -GUARDA	AEOLIC PARK (4/12)	402636N 0072131W	1266M / 126M	By Day: Flashing white light By Night: Fixed red light
MOSQUEIROS II -GUARDA	AEOLIC PARK (5/12)	402625N 0072136W	1266M / 126M	
MOSQUEIROS II -GUARDA	AEOLIC PARK (6/12)	402615N 0072140W	1196M / 126M	By Day: Flashing white light By Night: Fixed red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
MOSQUEIROS II -GUARDA	AEOLIC PARK (7/12)	402605N 0072147W	1186M / 126M	
MOSQUEIROS II -GUARDA	AEOLIC PARK (8/12)	402553N 0072155W	1171M / 126M	By Day: Flashing white light By Night: Fixed red light
MOSQUEIROS II -GUARDA	AEOLIC PARK (9/12)	402540N 0072200W	1146M / 126M	
MOSQUEIROS II -GUARDA	AEOLIC PARK (10/12)	402534N 0072207W	1136M / 126M	By Day: Flashing white light By Night: Fixed red light
MOSQUEIROS II -GUARDA	AEOLIC PARK (11/12)	402751N 0072032W	1229M / 131M	
MOSQUEIROS II -GUARDA	AEOLIC PARK (12/12)	402804N 0072023W	1181M / 131M	By Day: Flashing white light By Night: Fixed red light
MOSTEIRO (SABUGAL)	AEOLIC PARK (7/7)	401840N 0070824W	1012M / 100M	Fixed Red Light
MOUGUEIRAS - OLEIROS	AEOLIC PARK (1/4)	395438N 0075024W	916M / 126M	By day: Flashing white light By night: Fixed red light
MOUGUEIRAS - OLEIROS	AEOLIC PARK (2/4)	395431N 0075007W	936M / 126M	
MOUGUEIRAS - OLEIROS	AEOLIC PARK (3/4)	395428N 0074954W	941M / 126M	By day: Flashing white light By night: Fixed red light
MOUGUEIRAS - OLEIROS	AEOLIC PARK (4/4)	395419N 0074943W	936M / 126M	By day: Flashing white light By night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (1/21)	405725N 0074919W	1086M / 110M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (2/21)	405721N 0074911W	1090M / 110M	
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (3/21)	405716N 0074857W	1093M / 110M	
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (4/21)	405709N 0074851W	1094M / 110M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (5/21)	405700N 0074845W	1091M / 110M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (6/21)	405657N 0074836W	1087M / 110M	
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (7/21)	405653N 0074825W	1120M / 110M	
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (8/21)	405649N 0074815W	1130M / 110M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (9/21)	405643N 0074808W	1105M / 110M	
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (10/21)	405640N 0074756W	1114M / 110M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (11/21)	405628N 0074757W	1139M / 110M	
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (12/21)	405620N 0074747W	1123M / 110M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (13/21)	405653N 0074907W	1106M / 110M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (14/21)	405646N 0074903W	1096M / 110M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (15/21)	405557N 0074847W	1076M / 110M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (16/21)	405550N 0074842W	1070M / 110M	
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (17/21)	405540N 0074843W	1079M / 110M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (18/21)	405534N 0074831W	1071M / 110M	
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (19/21)	405523N 0074826W	1056M / 110M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (20/21)	405608N 0074819W	1335M / 179M	By Day: Flashing white light By Night: Fixed red light
MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA	WINDMILL (21/21)	405458N 0074853W	1280M / 179M	By Day: Flashing white light By Night: Fixed red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
MUGE	TOWER	390532N 0084145W	284M / 265M	Fixed Red Light
NAVE	WINDMILL (1/21)	405801N 0074540W	1015M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (2/21)	405739N 0074548W	1040M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (3/21)	405722N 0074603W	1035M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (4/21)	405703N 0074522W	1084M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (5/21)	405603N 0074503W	1086M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (6/21)	405636N 0074600W	1079M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (7/21)	405639N 0074539W	1081M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (8/21)	405626N 0074523W	1103M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (9/21)	405614N 0074511W	1100M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (10/21)	405619N 0074447W	1113M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (11/21)	405611N 0074444W	1123M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (12/21)	405603N 0074443W	1098M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (13/21)	405622N 0074619W	1062M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (14/21)	405527N 0074651W	996M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (15/21)	405511N 0074630W	983M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (16/21)	405504N 0074704W	974M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (17/21)	405450N 0074710W	971M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (18/21)	405440N 0074700W	963M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (19/21)	405429N 0074703W	964M / 112M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (20/21)	405444N 0074836W	1095M / 179M	By day: Flashing white By night: Fixed red
NAVE	WINDMILL (21/21)	405423N 0074839W	1050M / 179M	By day: Flashing white By night: Fixed red
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (1/19)	405629N 0074225W	1102M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (2/19)	405539N 0074229W	1104M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (3/19)	405557N 0074219W	1128M / 126M	
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (4/19)	405616N 0074205W	1138M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (5/19)	405632N 0074154W	1116M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (6/19)	405540N 0074209W	1104M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (7/19)	405556N 0074202W	1124M / 126M	
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (8/19)	405615N 0074151W	1138M / 126M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (9/19)	405545N 0074145W	1122M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (10/19)	405556N 0074142W	1136M / 126M	
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (11/19)	405608N 0074139W	1132M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (12/19)	405440N 0074043W	1052M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (13/19)	405443N 0074103W	1064M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (14/19)	405459N 0074106W	1080M / 126M	
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (15/19)	405509N 0074100W	1094M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (16/19)	405513N 0074128W	1082M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (17/19)	405521N 0074131W	1094M / 126M	
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (18/19)	405529N 0074130W	1102M / 126M	By day: Flashing White Light By night: Fixed Red Light
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (19/19)	405543N 0074108W	1112M / 126M	By day: Flashing White Light By night: Fixed Red Light
NEGRELO / GUILHADO - VILA POUCA DE AGUIAR	WINDMILL (1/11)	412911N 0073727W	1166M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
NEGRELO / GUILHADO - VILA POUCA DE AGUIAR	WINDMILL (2/11)	412902N 0073721W	1176M / 126M	
NEGRELO / GUILHADO - VILA POUCA DE AGUIAR	WINDMILL (3/11)	412852N 0073718W	1192M / 126M	
NEGRELO / GUILHADO - VILA POUCA DE AGUIAR	WINDMILL (4/11)	412843N 0073728W	1198M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
NEGRELO / GUILHADO - VILA POUCA DE AGUIAR	WINDMILL (5/11)	412835N 0073732W	1213M / 126M	
NEGRELO / GUILHADO - VILA POUCA DE AGUIAR	WINDMILL (6/11)	412824N 0073741W	1220M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
NEGRELO / GUILHADO - VILA POUCA DE AGUIAR	WINDMILL (7/11)	412815N 0073744W	1232M / 126M	
NEGRELO / GUILHADO - VILA POUCA DE AGUIAR	WINDMILL (8/11)	412807N 0073746W	1226M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
NEGRELO / GUILHADO - VILA POUCA DE AGUIAR	WINDMILL (9/11)	412800N 0073754W	1188M / 126M	
NEGRELO / GUILHADO - VILA POUCA DE AGUIAR	WINDMILL (10/11)	412752N 0073805W	1161M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
NEGRELO / GUILHADO - VILA POUCA DE AGUIAR	WINDMILL (11/11)	412921N 0073722W	1029M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
OUTEIRO	AEOLIC PARK (1/1)	411956N 0075014W	1383M / 100M	Fixed Red Light
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (1/15)	412042N 0075027W	1383M / 100M	Fixed Red Light
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (2/15)	412036N 0075032W	1380M / 100M	
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (3/15)	412029N 0075034W	1379M / 100M	
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (4/15)	412023N 0075046W	1364M / 100M	Fixed Red Light
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (5/15)	411915N 0074954W	1284M / 100M	
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (6/15)	412015N 0075047W	1356M / 100M	Fixed Red Light
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (7/15)	411911N 0074954W	1280M / 100M	Fixed Red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (8/15)	412007N 0075052W	1308M / 100M	
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (9/15)	412002N 0075010W	1336M / 100M	Fixed Red Light
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (10/15)	411959N 0075055W	1269M / 100M	
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (11/15)	411956N 0075014W	1320M / 100M	
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (12/15)	411953N 0075058W	1256M / 103M	Fixed Red Light
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (13/15)	411947N 0075014W	1313M / 100M	
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (14/15)	411939N 0075015W	1326M / 100M	
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (15/15)	411933N 0075021W	1313M / 100M	Fixed Red Light
PASSARINHO (SOBRAL MONTE AGRACO)	AEOLIC PARK (1/6)	385908N 0091026W	452M / 121M	Flashing Red Light
PASSARINHO (SOBRAL MONTE AGRACO)	AEOLIC PARK (2/6)	385900N 0091028W	446M / 122M	
PASSARINHO (SOBRAL MONTE AGRACO)	AEOLIC PARK (3/6)	385850N 0091025W	443M / 121M	Flashing Red Light
PASSARINHO (SOBRAL MONTE AGRACO)	AEOLIC PARK (4/6)	385844N 0091036W	442M / 121M	Flashing Red Light
PASSARINHO (SOBRAL MONTE AGRACO)	AEOLIC PARK (5/6)	385858N 0091016W	438M / 120M	
PASSARINHO (SOBRAL MONTE AGRACO)	AEOLIC PARK (6/6)	385918N 0091034W	419M / 120M	By Day: Flashing white light By Night: Fixed red light
PERDIGÃO	WINDMILL (1/1)	394227N 0074441W	599M / 119M	By day: Flashing White lights By night: Fixed Red lights
PEDRAS LAVRADAS II - SEIA / COVILHA	WINDMILL (1/10)	401404N 0074526W	1083M / 126M	By day: Flashing White lights By night: Fixed Red lights
PEDRAS LAVRADAS II - SEIA / COVILHA	WINDMILL (2/10)	401404N 0074515W	1099M / 126M	
PEDRAS LAVRADAS II - SEIA / COVILHA	WINDMILL (3/10)	401402N 0074504W	1127M / 126M	
PEDRAS LAVRADAS II - SEIA / COVILHA	WINDMILL (4/10)	401403N 0074453W	1148M / 126M	By day: Flashing White lights By night: Fixed Red lights
PEDRAS LAVRADAS II - SEIA / COVILHA	WINDMILL (5/10)	401405N 0074444W	1124M / 126M	
PEDRAS LAVRADAS II - SEIA / COVILHA	WINDMILL (6/10)	401407N 0074433W	1065M / 126M	By day: Flashing White lights By night: Fixed Red lights
PEDRAS LAVRADAS II - SEIA / COVILHA	WINDMILL (7/10)	401411N 0074343W	1175M / 126M	By day: Flashing White lights By night: Fixed Red lights
PEDRAS LAVRADAS II - SEIA / COVILHA	WINDMILL (8/10)	401357N 0074332W	1183M / 126M	By day: Flashing White lights By night: Fixed Red lights
PEDRAS LAVRADAS II - SEIA / COVILHA	WINDMILL (9/10)	401344N 0074320W	1153M / 126M	By day: Flashing White lights By night: Fixed Red lights
PEDRAS LAVRADAS II - SEIA / COVILHA	WINDMILL (10/10)	401331N 0074309W	1122M / 126M	By day: Flashing White lights By night: Fixed Red lights
PENAMACOR 1 - PENAMACOR	AEOLIC PARK (1/10)	401230N 0071549W	796M / 147M	By Day: Flashing white light By Night: Fixed red light
PENAMACOR 1 - PENAMACOR	AEOLIC PARK (2/10)	401233N 0071528W	794M / 120M	
PENAMACOR 1 - PENAMACOR	AEOLIC PARK (3/10)	401227N 0071521W	827M / 120M	
PENAMACOR 1 - PENAMACOR	AEOLIC PARK (4/10)	401222N 0071512W	840M / 120M	By Day: Flashing white light By Night: Fixed red light
PENAMACOR 1 - PENAMACOR	AEOLIC PARK (5/10)	401227N 0071443W	870M / 120M	By Day: Flashing white light By Night: Fixed red light
PENAMACOR 1 - PENAMACOR	AEOLIC PARK (6/10)	401222N 0071430W	885M / 120M	
PENAMACOR 1 - PENAMACOR	AEOLIC PARK (7/10)	401217N 0071419W	902M / 120M	By Day: Flashing white light By Night: Fixed red light
PENAMACOR 1 - PENAMACOR	AEOLIC PARK (8/10)	401209N 0071413W	890M / 120M	
PENAMACOR 1 - PENAMACOR	AEOLIC PARK (9/10)	401203N 0071410W	875M / 120M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
PENAMACOR 1 - PENAMACOR	AEOLIC PARK (10/10)	401150N 0071405W	875M / 120M	By Day: Flashing white light By Night: Fixed red light
PENAMACOR 2 - PENAMACOR	AEOLIC PARK (1/7)	401213N 0071117W	830M / 124M	By Night: Fixed red light Red Stripes in the propeller blades
PENAMACOR 2 - PENAMACOR	AEOLIC PARK (2/7)	401212N 0071107W	827M / 124M	Red Stripes in the propeller blades
PENAMACOR 2 - PENAMACOR	AEOLIC PARK (3/7)	401217N 0071000W	805M / 124M	Red Stripes in the propeller blades
PENAMACOR 2 - PENAMACOR	AEOLIC PARK (4/7)	401218N 0071044W	802M / 124M	By Night: Fixed red light Red Stripes in the propeller blades
PENAMACOR 2 - PENAMACOR	AEOLIC PARK (5/7)	401202N 0071015W	781M / 124M	By Night: Fixed red light Red Stripes in the propeller blades
PENAMACOR 2 - PENAMACOR	AEOLIC PARK (6/7)	401153N 0070949W	812M / 124M	Red Stripes in the propeller blades
PENAMACOR 2 - PENAMACOR	AEOLIC PARK (7/7)	401149N 0070938W	795M / 124M	By Night: Fixed red light Red Stripes in the propeller blades
PENAMACOR 3A - PENAMACOR	AEOLIC PARK (1/10)	401626N 0070747W	880M / 120M	By Day: Flashing white light By Night: Fixed red light
PENAMACOR 3A - PENAMACOR	AEOLIC PARK (2/10)	401631N 0070753W	905M / 120M	
PENAMACOR 3A - PENAMACOR	AEOLIC PARK (3/10)	401638N 0070757W	925M / 120M	
PENAMACOR 3A - PENAMACOR	AEOLIC PARK (4/10)	401644N 0070801W	943M / 120M	By Day: Flashing white light By Night: Fixed red light
PENAMACOR 3A - PENAMACOR	AEOLIC PARK (5/10)	401651N 0070805W	940M / 120M	
PENAMACOR 3A - PENAMACOR	AEOLIC PARK (6/10)	401659N 0070809W	944M / 120 M	
PENAMACOR 3A - PENAMACOR	AEOLIC PARK (7/10)	401705N 0070815W	935M / 120M	By Day: Flashing white light By Night: Fixed red light
PENAMACOR 3A - PENAMACOR	AEOLIC PARK (8/10)	401654N 0070824W	882M / 120M	
PENAMACOR 3A - PENAMACOR	AEOLIC PARK (9/10)	401648N 0070838W	889M / 120M	By Day: Flashing white light By Night: Fixed red light
PENAMACOR 3A - PENAMACOR	AEOLIC PARK (10/10)	401637N 0070858W	851M / 120M	By Day: Flashing white light By Night: Fixed red light
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (1/12)	401841N 0070613W	956M / 124M	By Night: Fixed red light Red strips in propeller blades
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (2/12)	401835N 0070606W	979M / 124M	Red strips in propeller blades
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (3/12)	401830N 0070558W	983M / 124M	Red strips in propeller blades
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (4/12)	401821N 0070555W	979M / 124M	Red strips in propeller blades
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (5/12)	401813N 0070550W	972M / 124M	By Night: Fixed red light Red strips in propeller blades
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (6/12)	401757N 0070540W	959M / 125M	Red strips in propeller blades
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (7/12)	401733N 0070521W	966M / 124M	By Night: Fixed red light Red strips in propeller blades
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (8/12)	401709N 0070559W	991M / 124M	By Night: Fixed red light Red strips in propeller blades
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (9/12)	401707N 0070547W	988M / 124M	By Night: Fixed red light Red strips in propeller blades
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (10/12)	401702N 0070537W	1001M / 124M	Red strips in propeller blades
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (11/12)	401657N 0070527W	1023M / 124M	Red strips in propeller blades
PENAMACOR 3B - PENAMACOR	AEOLIC PARK (12/12)	401648N 0070515W	1028M / 124M	By Night: Fixed red light Red strips in propeller blades
PENA SUAR - VILA REAL	WINDMILL (21/24)	411810N 0075453W	1184M / 100M	By day: flashing white light By night: fixed red light
PENA SUAR - VILA REAL	WINDMILL (22/24)	411804N 0075435W	1188M / 100M	
PENA SUAR - VILA REAL	WINDMILL (23/24)	411808N 0075429W	1174M / 100M	By day: flashing white light By night: fixed red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
PENA SUAR - VILA REAL	WINDMILL (24/24)	411812N 0075420W	1211M / 125M	By day: flashing white light By night: fixed red light
PENA SUAR - VILA REAL	TOWER	411714N 0075529W	1286M / 100M	Day and night signalized
PICO ALTO - SILVES	AEOLIC PARK (1/3)	371546N0081420W	411M / 121M	By day: Flashing white By night: Fixed red
PICO ALTO - SILVES	AEOLIC PARK (2/3)	371545N0081409W	406M / 121M	By day: Flashing white By night: Fixed red
PICO ALTO - SILVES	AEOLIC PARK (3/3)	371547N0081359W	411M / 121M	By day: Flashing white By night: Fixed red
PICOS - VALE DO CHÃO	WINDMILL (1/12)	400444N 0080927W	1297M / 126M	By day: Flashing white By night: Fixed red
PICOS - VALE DO CHÃO	WINDMILL (2/12)	400416N 0080919W	1275M / 126M	By day: Flashing white By night: Fixed red
PICOS - VALE DO CHÃO	WINDMILL (3/12)	400421N 0080911W	1300M / 126M	
PICOS - VALE DO CHÃO	WINDMILL (4/12)	400424N 0080902W	1254M / 126M	By day: Flashing white By night: Fixed red
PICOS - VALE DO CHÃO	WINDMILL (5/12)	400425N 0080850W	1234M / 126M	
PICOS - VALE DO CHÃO	WINDMILL (6/12)	400428N 0080837W	1251M / 126M	By day: Flashing white By night: Fixed red
PICOS - VALE DO CHÃO	WINDMILL (7/12)	400430N 0080824W	1232M / 126M	
PICOS - VALE DO CHÃO	WINDMILL (8/12)	400438N 0080815W	1181M / 126M	
PICOS - VALE DO CHÃO	WINDMILL (9/12)	400445N 0080806W	1142M / 126M	By day: Flashing white By night: Fixed red
PICOS - VALE DO CHÃO	WINDMILL (10/12)	400450N 0080756W	1089M / 126M	
PICOS - VALE DO CHÃO	WINDMILL (11/12)	400454N 0080746W	1040M / 126M	By day: Flashing white By night: Fixed red
PICOS - VALE DO CHÃO	WINDMILL (12/12)	400351N 0080809W	1248M / 190M	By day: Flashing white By night: Fixed red
PINHAL INTERIOR-FURNAS (OLEIROS)	AEOLIC PARK (1/6)	395208N 0075151W	1065M / 101M	By day: Flashing white light By night: Flashing Red Light
PINHAL INTERIOR-FURNAS (OLEIROS)	AEOLIC PARK (2/6)	395206N 0075139W	1054M / 101M	
PINHAL INTERIOR-FURNAS (OLEIROS)	AEOLIC PARK (3/6)	395154N 0075128W	1043M / 101M	By day: Flashing white light By night: Flashing Red Light
PINHAL INTERIOR-FURNAS (OLEIROS)	AEOLIC PARK (4/6)	395159N 0075112W	987M / 101M	
PINHAL INTERIOR-FURNAS (OLEIROS)	AEOLIC PARK (5/6)	395201N 0075101W	1002M / 101M	
PINHAL INTERIOR-FURNAS (OLEIROS)	AEOLIC PARK (6/6)	395210N 0075059W	970M / 101M	By day: Flashing white light By night: Flashing Red Light
PINHAL INTERIOR - MORADAL	WINDMILL (1/5)	395540N 0074445W	989M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - MORADAL	WINDMILL (2/5)	395532N 0074437W	989M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - MORADAL	WINDMILL (3/5)	395526N 0074433W	979M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - MORADAL	WINDMILL (4/5)	395520N 0074430W	969M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - MORADAL	WINDMILL (5/5)	395508N 0074430W	949M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - PROENCA	WINDMILL (1/24)	394731N 0075349W	934M / 114M	By day: Flashing white light By night: Flashing red light
PINHAL INTERIOR - PROENCA	WINDMILL (2/24)	394739N 0075345W	955M / 114M	
PINHAL INTERIOR - PROENCA	WINDMILL (3/24)	394746N 0075343W	987M / 114M	
PINHAL INTERIOR - PROENCA	WINDMILL (4/24)	394752N 0075338W	1001M / 101M	By day: Flashing white light By night: Flashing red light
PINHAL INTERIOR - PROENCA	WINDMILL (5/24)	394800N 0075333W	994M / 101M	
PINHAL INTERIOR - PROENCA	WINDMILL (6/24)	394807N0075332W	995M / 101M	
PINHAL INTERIOR - PROENCA	WINDMILL (7/24)	394815N0075331W	1010M / 101M	
PINHAL INTERIOR - PROENCA	WINDMILL (8/24)	394819N 0075325W	1000M / 101M	By day: Flashing white light By night: Flashing red light
PINHAL INTERIOR - PROENCA	WINDMILL (9/24)	394822N0075317W	973M / 101M	



Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
PINHAL INTERIOR - PROENÇA	WINDMILL (10/24)	394829N 0075257W	989M / 121M	By day: Flashing white light By night: Flashing red light
PINHAL INTERIOR - PROENÇA	WINDMILL (11/24)	394833N0075250W	985M / 101M	
PINHAL INTERIOR - PROENÇA	WINDMILL (12/24)	394840N0075246W	975M / 101M	
PINHAL INTERIOR - PROENÇA	WINDMILL (13/24)	394847N 0075245W	987M / 101M	By day: Flashing white light By night: Flashing red light
PINHAL INTERIOR - PROENÇA	WINDMILL (14/24)	394854N0075242W	999M / 101M	
PINHAL INTERIOR - PROENÇA	WINDMILL (15/24)	394859N0075242W	1018M / 101M	
PINHAL INTERIOR - PROENÇA	WINDMILL (16/24)	394906N 0075243W	1046M / 101M	
PINHAL INTERIOR - PROENÇA	WINDMILL (17/24)	394908N 0075257W	1033M / 101M	By day: Flashing white light By night: Flashing red light
PINHAL INTERIOR - PROENÇA	WINDMILL (18/24)	394911N 0075238W	1040M / 101M	
PINHAL INTERIOR - PROENÇA	WINDMILL (19/24)	394712N 0075459W	879M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - PROENÇA	WINDMILL (20/24)	394710N 0075431W	889M / 119M	
PINHAL INTERIOR - PROENÇA	WINDMILL (21/24)	394726N 0075354W	915M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - PROENÇA	WINDMILL (22/24)	394703N 0075514W	915M / 180M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - PROENÇA	WINDMILL (23/24)	394712N 0075445W	935M / 180M	
PINHAL INTERIOR - PROENÇA	WINDMILL (24/24)	394718N 0075415W	935M / 180M	
PINHAL INTERIOR - RENDEIRO	WINDMILL (1/2)	395047N 0075819W	969M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - RENDEIRO	WINDMILL (2/2)	395100N 0075753W	1001M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (1/6)	395232N 0075508W	1036M / 101M	By day: Flashing white light By night: Flashing Red Light
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (2/6)	395235N 0075459W	1041M / 101M	
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (3/6)	395238N 0075451W	1053M / 101M	
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (4/6)	395239N 0075440W	1081M / 101M	By day: Flashing white light By night: Flashing Red Light
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (5/6)	395233N 0075430W	1093M / 101M	
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (6/6)	395229N 0075421W	1074 / 101M	By day: Flashing white light By night: Flashing Red Light
PINHEIRO	WINDMILL (13/13)	405744N 0075853W	1452 / 179M	By day: Flashing white light By night: Flashing Red Light
PO - PO / REGUENGO GRANDE - BOMBARRAL / LOURINHA	AEOLIC PARK (7/7)	391810N 0091212W	253M / 112M	By day: Flashing white By night: Fixed red
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (1/13)	401720N 0081753W	586M / 157M	By day: Flashing White lights By night: Fixed Red lights
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (2/13)	401731N 0081801W	585M / 157M	
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (3/13)	401743N 0081809W	590M / 157M	By day: Flashing White lights By night: Fixed Red lights
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (4/13)	401837N 0081836W	598M / 157M	By day: Flashing White lights By night: Fixed Red lights
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (5/13)	401846N 0081846W	603M / 157M	
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (6/13)	401857N 0081854W	602M / 157M	By day: Flashing White lights By night: Fixed Red lights
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (7/13)	401909N 0081905W	621M / 157M	By day: Flashing White lights By night: Fixed Red lights
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (8/13)	401918N 0081913W	619M / 157M	By day: Flashing White lights By night: Fixed Red lights
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (9/13)	401927N 0081921W	598M / 157M	By day: Flashing White lights By night: Fixed Red lights
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (10/13)	401936N 0081931W	596M / 157M	By day: Flashing White lights By night: Fixed Red lights

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (11/13)	401946N 0081938W	582M / 157M	By day: Flashing White lights By night: Fixed Red lights
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (12/13)	401955N 0081947W	579M / 157M	
PORTELA DE OLIVEIRA-PENACOVA	WINDMILL (13/13)	402005N 0081952W	577M / 157M	By day: Flashing White lights By night: Fixed Red lights
PORTO ALTO	MAST	385441N 0085153W	135M / 125M	Fixed Red Light
PRACANA MACAO	AEOLIC PARK (1/1)	393412N 0074932W	531M / 101M	By Day: flashing white light By Night: Flashing red light
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (1/17)	403218N 0072257W	1254M / 131M	By day: Flashing white light By night: Fixed red light
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (2/17)	403222N 0072240W	1261M / 131M	By day: Flashing white light By night: Fixed red light
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (3/17)	403231N 0072233W	1255M / 131M	
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (4/17)	403237N 0072221W	1246M / 131M	By day: Flashing white light By night: Fixed red light
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (5/17)	403247N 0072218W	1228M / 131M	
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (6/17)	403245N 0072155W	1209M / 131M	By day: Flashing white light By night: Fixed red light
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (7/17)	403255N 0072157W	1216M / 131M	
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (8/17)	403301N 0072144W	1206M / 131M	
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (9/17)	403311N 0072141W	1196M / 131M	By day: Flashing white light By night: Fixed red light
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (10/17)	403315N 0072125W	1181M / 131M	
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (11/17)	403325N 0072124W	1169M / 131M	
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (12/17)	403333N 0072115W	1171M / 131M	By day: Flashing white light By night: Fixed red light
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (13/17)	403343N 0072114W	1154M / 131M	
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (14/17)	403350N 0072105W	1121M / 131M	
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (15/17)	403359N 0072101W	1119M / 131M	By day: Flashing white light By night: Fixed red light
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (16/17)	403405N 0072048W	1116M / 131M	
PRADOS - CELORICO DA BEIRA / GUARDA	WINDMILL (17/17)	403408N 0072028W	1106M / 131M	By day: Flashing white light By night: Fixed red light
PRAIA DO NORTE - VIANA DO CASTELO	WINDMILL (1/1)	414115N 0085044W	143M / 139M	By Day: Red Stripes in propeller By Night: Fixed Red light
RAIA - BENESPERA	WINDMILL (1/17)	402412N 0071620W	951M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - BENESPERA	WINDMILL (2/17)	402424N 0071614W	980M / 126M	
RAIA - BENESPERA	WINDMILL (3/17)	402434N 0071610W	988M / 126M	
RAIA - BENESPERA	WINDMILL (4/17)	402434N 0071600W	994M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - BENESPERA	WINDMILL (5/17)	402451N 0071555W	980M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - BENESPERA	WINDMILL (6/17)	402504N 0071538W	1026M / 126M	
RAIA - BENESPERA	WINDMILL (7/17)	402516N 0071605W	1013M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - BENESPERA	WINDMILL (8/17)	402515N 0071551W	1037M / 126M	
RAIA - BENESPERA	WINDMILL (9/17)	402515N 0071540W	1056M / 126M	By Day: Flashing White lights By Night: Fixed Red lights

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
RAIA - BENESPERA	WINDMILL (10/17)	402536N 0071425W	1018M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - BENESPERA	WINDMILL (11/17)	402544N 0071423W	1036M / 126M	
RAIA - BENESPERA	WINDMILL (12/17)	402554N 0071513W	1054M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - BENESPERA	WINDMILL (13/17)	402555N 0071458W	1040M / 126M	
RAIA - BENESPERA	WINDMILL (14/17)	402554N 0071422W	1060M / 126M	
RAIA - BENESPERA	WINDMILL (15/17)	402602N 0071508W	1076M / 126M	
RAIA - BENESPERA	WINDMILL (16/17)	402601N 0071443W	1088M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - BENESPERA	WINDMILL (17/17)	402559N 0071433W	1082M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - POUSAFOLES	WINDMILL (1/14)	402148N 0071328W	885M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - POUSAFOLES	WINDMILL (2/14)	402147N 0071316W	894M / 126M	
RAIA - POUSAFOLES	WINDMILL (3/14)	402144N 0071305W	871M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - POUSAFOLES	WINDMILL (4/14)	402204N 0071249W	871M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - POUSAFOLES	WINDMILL (5/14)	402352N 0071146W	1017M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - POUSAFOLES	WINDMILL (6/14)	402357N 0071152W	1021M / 126M	
RAIA - POUSAFOLES	WINDMILL (7/14)	402403N 0071203W	1014M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - POUSAFOLES	WINDMILL (8/14)	402412N 0071201W	1014M / 126M	
RAIA - POUSAFOLES	WINDMILL (9/14)	402410N 0071134W	1004M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - POUSAFOLES	WINDMILL (10/14)	402421N 0071218W	1026M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
RAIA - POUSAFOLES	WINDMILL (11/14)	402349N 0071056W	1008M / 126M	By Day: Flashing white light By Night: Fixed red light
RAIA - POUSAFOLES	WINDMILL (12/14)	402357N 0071025W	990M / 126M	By Day: Flashing white light By Night: Fixed red light
RAIA - POUSAFOLES	WINDMILL (13/14)	402405N 0071040W	991M / 126M	
RAIA - POUSAFOLES	WINDMILL (14/14)	402407N 0071051W	980M / 126M	By Day: Flashing white light By Night: Fixed red light
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (1/26)	402025N 0071143W	970M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (2/26)	402040N 0071134W	996M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (3/26)	402038N 0071124W	1000M / 126M	
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (4/26)	402036N 0071112W	995M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (5/26)	402050N 0071051W	1029M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (6/26)	402049N 0071037W	1050M / 126M	
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (7/26)	402051N 0071011W	1012M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (8/26)	402048N 0070952W	986M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (9/26)	402102N 0071035W	1050M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (10/26)	402108N 0071043W	1076M / 126M	
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (11/26)	402123N 0071046W	1041M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (12/26)	402131N 0070953W	1026M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (13/26)	402200N 0070942W	1016M / 126M	By Day: Flashing white lights By Night: Fixed red lights

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (14/26)	402208N 0070958W	1012M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (15/26)	402214N 0071021W	987M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (16/26)	402215N 0070911W	1008M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (17/26)	401900N 0071233W	874M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (18/26)	401902N 0071216W	893M / 126M	
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (19/26)	401904N 0071157W	916M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (20/26)	401917N 0071240W	857M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (21/26)	401914N 0071230W	861M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (22/26)	401914N 0071206W	883M / 126M	
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (23/26)	401914N 0071152W	890M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (24/26)	402034N 0071008W	978M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (25/26)	401912N 0071218W	870M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RAIA - SAO CORNÉLIO / TROVISCAL	WINDMILL (26/26)	402129N 0070935W	1070M / 200M	By Day: Flashing white lights By Night: Fixed red lights
RANHADOS / MEDA	AEOLIC PARK (1/5)	410018N 0072153W	1030M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RANHADOS / MEDA	AEOLIC PARK (2/5)	410027N 0072151W	1058M / 126M	
RANHADOS / MEDA	AEOLIC PARK (3/5)	410035N 0072149W	1064M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RANHADOS / MEDA	AEOLIC PARK (4/5)	410043N 0072150W	1055M / 126M	
RANHADOS / MEDA	AEOLIC PARK (5/5)	410050N 0072156W	1040M / 126M	By Day: Flashing white lights By Night: Fixed red lights
RIBABELIDE BIGORNE - LAMEGO	AEOLIC PARK (1/7)	410131N 0075210W	1076M / 120M	By day: Red Stripes in propeller blades By night: Red light
RIBABELIDE BIGORNE - LAMEGO	AEOLIC PARK (2/7)	410110N 0075211W	1115M / 120M	By day: Red Stripes in propeller blades By night: Red light
RIBABELIDE BIGORNE - LAMEGO	AEOLIC PARK (3/7)	410100N 0075211W	1126M / 120M	
RIBABELIDE BIGORNE - LAMEGO	AEOLIC PARK (4/7)	410054N 0075222W	1141M / 120M	By day: Red Stripes in propeller blades By night: Red light
RIBABELIDE BIGORNE - LAMEGO	AEOLIC PARK (5/7)	410049N 0075228W	1139M / 120M	
RIBABELIDE BIGORNE - LAMEGO	AEOLIC PARK (6/7)	410041N 0075240W	1132M / 120M	By day: Red Stripes in propeller blades By night: Red light
RIBABELIDE BIGORNE - LAMEGO	AEOLIC PARK (7/7)	410041N 0075255W	1117M / 120M	By day: Red Stripes in propeller blades By night: Red light
RIBAMAR (MAFRA)	AEOLIC PARK (1/3)	390020N 0092410W	255M / 120M	Fixed Red Light
RIBAMAR (MAFRA)	AEOLIC PARK (2/3)	390020N 0092359W	252M / 120M	Fixed Red Light
RIBAMAR (MAFRA)	AEOLIC PARK (3/3)	390018N 0092425W	256M / 120M	Fixed Red Light
RIO DE MEL - CASTANHEIRA - TRANCOSO	WINDMILL (1/5)	405018N 0072255W	1053M / 131M	By day: Flashing white light By night: Fixed red light
RIO DE MEL - CASTANHEIRA - TRANCOSO	WINDMILL (2/5)	405007N 0072304W	1054M / 131M	
RIO DE MEL - CASTANHEIRA - TRANCOSO	WINDMILL (3/5)	404957N 0072258W	1045M / 131M	By day: Flashing white light By night: Fixed red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
RIO DE MEL - CASTANHEIRA - TRANCOSO	WINDMILL (4/5)	404952N 0072336W	1023M / 131M	By day: Flashing white light By night: Fixed red light
RIO DE MEL - CASTANHEIRA - TRANCOSO	WINDMILL (5/5)	404941N 0072335W	1021M / 131M	By day: Flashing white light By night: Fixed red light
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (1/16)	400407N 0080925W	1212M / 107M	By Day: Flashing White Light By Night: Fixed Red Light
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (2/16)	400401N 0080927W	1202M / 107M	
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (3/16)	400356N 0080932W	1201M / 107M	
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (4/16)	400351N 0080936W	1197M / 107M	
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (5/16)	400347N 0080940W	1197M / 107M	By Day: Flashing White Light By Night: Fixed Red Light
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (6/16)	400341N 0080943W	1190M / 107M	
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (7/16)	400337N 0080949W	1172M / 107M	
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (8/16)	400335N 0080959W	1140M / 107M	
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (9/16)	400331N 0081004W	1099M / 107M	By Day: Flashing White Light By Night: Fixed Red Light
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (10/16)	400326N 0081009W	1072M / 107M	
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (11/16)	400321N 0081012W	1087M / 107M	
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (12/16)	400316N 0081015W	1110M / 107M	
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (13/16)	400311N 0081019W	1125M / 107M	By Day: Flashing White Light By Night: Fixed Red Light
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (14/16)	400305N 0081022W	1112M / 107M	
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (15/16)	400259N 0081021W	1092M / 107M	
SAFRA-COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (16/16)	400253N 0081019W	1057M / 107M	By Day: Flashing White Light By Night: Fixed Red Light
SALGUEIROS GUILHADO - VILA POUCA DE AGUIAR	AEOLIC PARK (1/6)	412916N 0073632W	1183M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
SALGUEIROS GUILHADO - VILA POUCA DE AGUIAR	AEOLIC PARK (2/6)	412923N 0073616W	1171M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
SALGUEIROS GUILHADO - VILA POUCA DE AGUIAR	AEOLIC PARK (3/6)	412926N 0073556W	1172M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
SALGUEIROS GUILHADO - VILA POUCA DE AGUIAR	AEOLIC PARK (4/6)	412931N 0073529W	1142M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
SALGUEIROS GUILHADO - VILA POUCA DE AGUIAR	AEOLIC PARK (5/6)	412911N 0073649W	1166M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
SALGUEIROS GUILHADO - VILA POUCA DE AGUIAR	AEOLIC PARK (6/6)	412920N 0073529W	1103M / 126M	
SANTA HELENA-VARZEA DA SERRA - TAROUCA	AEOLIC PARK (1/2)	410025N 0074833W	1170M / 100M	Red stripes in propeller blades By Night: flashing red light
SANTA HELENA-VARZEA DA SERRA - TAROUCA	AEOLIC PARK (2/2)	410019N 0074826W	1160M / 100M	Red stripes in propeller blades By Night: flashing red light
SAO JOAO 2-MONTE DE VEZ - PENELA	AEOLIC PARK (1/8)	400000N 0082416W	605M / 111M	By Day: flashing white light By Night: flashing red light
SAO JOAO 2-MONTE DE VEZ - PENELA	AEOLIC PARK (2/8)	395959N 0082407W	612M / 111M	
SAO JOAO 2-MONTE DE VEZ - PENELA	AEOLIC PARK (3/8)	395958N 0082401W	602M / 111M	By Day: flashing white light By Night: flashing red light
SAO JOAO 2 - MONTE DE VEZ - PENELA	AEOLIC PARK (4/8)	395958N 0082355W	588M / 111M	
SAO JOAO 2 - MONTE DE VEZ - PENELA	AEOLIC PARK (5/8)	395958N 0082349W	591M / 111M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SAO JOAO 2 - MONTE DE VEZ - PENELA	AEOLIC PARK (6/8)	395958N 0082342W	592M / 111M	By Day: flashing white light By Night: flashing red light
SAO JOAO 2 - MONTE DE VEZ - PENELA	AEOLIC PARK (7/8)	400000N 0082336W	587M / 111M	
SAO JOAO 2 - MONTE DE VEZ - PENELA	AEOLIC PARK (8/8)	400001N 0082329W	558M / 111M	By Day: flashing white light By Night: flashing red light
SAO MAMEDE (MAFRA)	AEOLIC PARK (1/3)	385831N 0091335W	335M / 125M	Fixed Red Light
SAO MAMEDE (MAFRA)	AEOLIC PARK (2/3)	385827N 0091343W	369M / 125M	
SAO MAMEDE (MAFRA)	AEOLIC PARK (3/3)	385819N 0091339W	388M / 125M	Fixed Red Light
SAO PAIO - VILA NOVA DE CERVEIRA	WINDMILL (6/6)	415520N 0084240W	760M / 139M	By Day: Flashing white light By Night: fixed red light
SAO PEDRO (TENDAIS)	AEOLIC PARK (1/5)	410001N 0080526W	1236M / 100M	Flashing Red Light
SAO PEDRO (TENDAIS)	AEOLIC PARK (2/5)	405950N 0080529W	1262M / 100M	
SAO PEDRO (TENDAIS)	AEOLIC PARK (3/5)	405942N 0080529W	1264M / 100M	Flashing Red Light
SAO PEDRO (TENDAIS)	AEOLIC PARK (4/5)	405933N 0080525W	1236M / 100M	
SAO PEDRO (TENDAIS)	AEOLIC PARK (5/5)	405928N 0080517W	1266M / 100M	Flashing Red Light
SARDINHA - LOURES - SINTRA	WINDMILL (1/13)	385122N 0091444W	430M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (2/13)	385128N 0091435W	435M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (3/13)	385136N 0091428W	403M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (4/13)	385141N 0091418W	398M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (5/13)	385147N 0091408W	415M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (6/13)	385216N 0091313W	395M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (7/13)	385228N 0091331W	398M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (8/13)	385247N 0091333W	430M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (9/13)	385249N 0091323W	439M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (10/13)	385249N 0091304W	405M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (11/13)	385259N 0091244W	388M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (12/13)	385301N 0091235W	387M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (13/13)	385313N 0091250W	391M / 125M	By Day: Flashing white light By Night: fixed red light
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (1/8)	393812N 0090413W	184M / 119M	Flashing Red Light
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (2/8)	393758N 0090418W	177M / 119M	
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (3/8)	393749N 0090423W	176M / 119M	
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (4/8)	393737N 0090431W	178M / 119M	Flashing Red Light
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (5/8)	393723N 0090431W	182M / 119M	
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (6/8)	393727N 0090428W	191M / 119M	Flashing Red Light
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (7/8)	393801N 0090356W	194M / 119M	
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (8/8)	393749N 0090400W	191M / 119M	Flashing Red Light
SENHORA DAS NECESSIDADES - ARGANIL / OLIVEIRA DO HOSPITAL	WINDMILL (1/4)	401449N 0074957W	1168M / 126M	By day: Flashing White lights By night: Fixed Red lights
SENHORA DAS NECESSIDADES - ARGANIL / OLIVEIRA DO HOSPITAL	WINDMILL (2/4)	401458N 0075000W	1186M / 126M	By day: Flashing White lights By night: Fixed Red lights
SENHORA DAS NECESSIDADES - ARGANIL / OLIVEIRA DO HOSPITAL	WINDMILL (3/4)	401537N 0074928W	1248M / 126M	By day: Flashing White lights By night: Fixed Red lights
SENHORA DAS NECESSIDADES - ARGANIL / OLIVEIRA DO HOSPITAL	WINDMILL (4/4)	401549N 0074932W	1310M / 126M	By day: Flashing White lights By night: Fixed Red lights
SENHORA DO CASTELO II (CINFAES)	AEOLIC PARK (1/2)	410149N 0080918W	1114M / 100M	Fixed Red Light
SENHORA DO CASTELO II (CINFAES)	AEOLIC PARK (2/2)	410155N 0080913W	1124M / 100M	Fixed Red Light
SENHORA DO SOCORRO - TORRES VEDRAS	AEOLIC PARK (1/4)	390114N 0091225W	454M / 121M	By Day: Flashing white light By Night: flashing red light
SENHORA DO SOCORRO - TORRES VEDRAS	AEOLIC PARK (2/4)	390119N 0091219W	431M / 121M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SENHORA DO SOCORRO - TORRES VEDRAS	AEOLIC PARK (3/4)	390122N 0091213W	427M / 121M	By Day: Flashing white light By Night: flashing red light
SENHORA DO SOCORRO - TORRES VEDRAS	AEOLIC PARK (4/4)	390119N 0091244W	386M / 119M	By Day: Flashing white light By Night: flashing red light
SERAMENA / SANTO QUINTINO / SOBRAL MONTE AGRACO	AEOLIC PARK	390001N 0090825W	434M / 120M	By Day: Flashing white light By Night: Fixed red light
SERNANCELHE	WINDMILL (1/19)	405234N 0072925W	1047M / 150M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (2/19)	405226N 0072916W	1044M / 150M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (3/19)	405223N 0072820W	1070M / 150M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (4/19)	405219N 0072806W	1083M / 150M	
SERNANCELHE	WINDMILL (5/19)	405218N 0072747W	1106M / 150M	
SERNANCELHE	WINDMILL (6/19)	405212N 0072732W	1081M / 150M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (7/19)	405223N 0072722W	1074M / 150M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (8/19)	405233N 0072713W	1067M / 150M	
SERNANCELHE	WINDMILL (9/19)	405244N 0072709W	1064M / 150M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (10/19)	405236N 0072859W	1058M / 150M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (11/19)	405254N 0072858W	1060M / 150M	
SERNANCELHE	WINDMILL (12/19)	405306N 0072907W	1033M / 150M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (13/19)	405306N 0072700W	1078M / 180M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (14/19)	405244N 0072702W	1090M / 180M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (15/19)	405255N 0072753W	1080M / 180M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (16/19)	405308N 0072753W	1090M / 180M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (17/19)	405325N 0072742W	1068M / 180M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (18/19)	405337N 0072747W	1038M / 180M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (19/19)	405319N 0072652W	1071M / 180M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	TMP	405245N 0072849W	1005M / 100M	By day: Red and white painted lattice By night: Fixed Red lights
SERRA ALTA - SABUGAL	AEOLIC PARK (1/1)	401906N 0065348W	1235M / 126M	By Day: Flashing white light By Night: Fixed Red Light
SERRA DA AMENDOA II	AEOLIC PARK (1/15)	393735N 0080201W	705M / 100M	RED STRIPES
SERRA DA AMENDOA II	AEOLIC PARK (2/15)	393741N 0080157W	706M / 100M	RED STRIPES
SERRA DA AMENDOA II	AEOLIC PARK (3/15)	393737N 0080148W	708M / 100M	
SERRA DA AMENDOA II	AEOLIC PARK (4/15)	393734N 0080143W	700M / 100M	
SERRA DA AMENDOA II	AEOLIC PARK (5/15)	393729N 0080138W	721M / 100M	RED STRIPES
SERRA DA AMENDOA II	AEOLIC PARK (6/15)	393723N 0080133W	715M / 100M	
SERRA DA AMENDOA II	AEOLIC PARK (7/15)	393719N 0080130W	704M / 100M	
SERRA DA AMENDOA II	AEOLIC PARK (8/15)	393713N 0080125W	700M / 100M	RED STRIPES
SERRA DA AMENDOA II	AEOLIC PARK (9/15)	393703N 0080120W	687M / 100M	
SERRA DA BOA VIAGEM - FIGUEIRA DA FOZ	WINDMILL (1/3)	401152N 0085134W	326M / 125M	By day: Flashing White Light By night: Fixed red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SERRA DA BOA VIAGEM - FIGUEIRA DA FOZ	WINDMILL (2/3)	401149N 0085123W	335M / 125M	
SERRA DA BOA VIAGEM - FIGUEIRA DA FOZ	WINDMILL (3/3)	401146N 0085113W	325M / 125M	By day: Flashing White Light By night: Fixed red Light
SERRA DA CABREIRA	AEOLIC PARK (1/10)	413915N 0080307W	1221M / 100M	Flashing Red Light
SERRA DA CABREIRA	AEOLIC PARK (2/10)	413915N 0080259W	1147M / 100M	
SERRA DA CABREIRA	AEOLIC PARK (3/10)	413911N 0080251W	1155M / 100M	
SERRA DA CABREIRA	AEOLIC PARK (4/10)	413902N 0080252W	1151M / 100M	
SERRA DA CABREIRA	AEOLIC PARK (5/10)	413854N 0080236W	1195M / 100M	
SERRA DA CABREIRA	AEOLIC PARK (6/10)	413842N 0080241W	1226M / 100M	Flashing Red Light
SERRA DA CABREIRA	AEOLIC PARK (7/10)	413835N 0080240W	1234M / 100M	
SERRA DA CABREIRA	AEOLIC PARK (8/10)	413754N 0080236W	1252M / 100M	Flashing Red Light
SERRA DA CABREIRA	AEOLIC PARK (9/10)	413816N 0080232W	1248M / 100M	
SERRA DA CABREIRA	AEOLIC PARK (10/10)	413807N 0080247W	1203M / 100M	Flashing Red Light
SERRA DA FREITA (AROUCA)	AEOLIC PARK (1/16)	405313N 0081348W	1125M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCA)	AEOLIC PARK (2/16)	405307N 0081357W	1165M / 125M	
SERRA DA FREITA (AROUCA)	AEOLIC PARK (3/16)	405304N 0081509W	1211M / 125M	
SERRA DA FREITA (AROUCA)	AEOLIC PARK (4/16)	405304N 0081546W	1212M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCA)	AEOLIC PARK (5/16)	405303N 0081534W	1210M / 125M	
SERRA DA FREITA (AROUCA)	AEOLIC PARK (6/16)	405303N 0081523W	1216M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCA)	AEOLIC PARK (7/16)	405300N 0081557W	1199M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCA)	AEOLIC PARK (8/16)	405255N 0081427W	1155M / 125M	
SERRA DA FREITA (AROUCA)	AEOLIC PARK (9/16)	405253N 0081438W	1117M / 125M	
SERRA DA FREITA (AROUCA)	AEOLIC PARK (10/16)	405250N 0081505W	1206M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCA)	AEOLIC PARK (11/16)	405236N 0081500W	1198M / 125M	
SERRA DA FREITA (AROUCA)	AEOLIC PARK (12/16)	405231N 0081450W	1195M / 125M	
SERRA DA FREITA (AROUCA)	AEOLIC PARK (13/16)	405231N 0081437W	1199M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCA)	AEOLIC PARK (14/16)	405227N 0081426W	1195M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCA)	AEOLIC PARK (15/16)	405225N 0081401W	1190M / 125M	
SERRA DA FREITA (AROUCA)	AEOLIC PARK (16/16)	405224N 0081414W	1125M / 125M	Flashing Red Light
SERRA DA LAGE	WINDMILL (1/1)	393739N 0075909W	800M / 180M	By day: Flashing white light By night: Fixed Red Light
SERRA DA PADRELA (VILA POUCA DE AGUIAR)	AEOLIC PARK (1/5)	412743N 0073800W	1152M / 100M	Fixed Red Light
SERRA DA PADRELA (VILA POUCA DE AGUIAR)	AEOLIC PARK (2/5)	412736N 0073803W	1152M / 100M	
SERRA DA PADRELA (VILA POUCA DE AGUIAR)	AEOLIC PARK (3/5)	412730N 0073804W	1146M / 100M	
SERRA DA PADRELA (VILA POUCA DE AGUIAR)	AEOLIC PARK (4/5)	412724N 0073808W	1145M / 100M	
SERRA DA PADRELA (VILA POUCA DE AGUIAR)	AEOLIC PARK (5/5)	412718N 0073811W	1152M / 100M	Fixed Red Light
SERRA D'EL REI (PENICHE)	WINDMILL (1/15)	391852N 0091631W	256M / 120M	By day: Flashing white light By night: Fixed Red Light
SERRA D'EL REI (PENICHE)	WINDMILL (2/15)	391901N 0091624W	264M / 120M	
SERRA D'EL REI (PENICHE)	WINDMILL (3/15)	391906N 0091619W	265M / 120M	
SERRA D'EL REI (PENICHE)	WINDMILL (4/15)	391912N 0091609W	268M / 120M	By day: Flashing white light By night: Fixed Red Light
SERRA D'EL REI (PENICHE)	WINDMILL (5/15)	391918N 0091601W	273M / 120M	
SERRA D'EL REI (PENICHE)	WINDMILL (6/15)	391917N 0091548W	273M / 120M	



Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SERRA D'EL REI (PENICHE)	WINDMILL (7/15)	391924N 0091540W	266M / 120M	By day: Flashing white light By night: Fixed Red Light
SERRA D'EL REI (PENICHE)	WINDMILL (8/15)	391832N 0091631W	263M / 120M	By day: Flashing white light By night: Fixed Red Light
SERRA D'EL REI (PENICHE)	WINDMILL (9/15)	391834N 0091618W	262M / 120M	
SERRA D'EL REI (PENICHE)	WINDMILL (10/15)	391843N 0091606W	268M / 120M	By day: Flashing white Light By night: Fixed Red Light
SERRA D'EL REI (PENICHE)	WINDMILL (11/15)	391852N 0091554W	274M / 120M	By day: Flashing white light By night: Fixed Red Light
SERRA D'EL REI (PENICHE)	WINDMILL (12/15)	391900N 0091543W	275M / 120M	
SERRA D'EL REI (PENICHE)	WINDMILL (13/15)	391909N 0091528W	274M / 120M	By day: Flashing white light By night: Fixed Red Light
SERRA D'EL REI (ÓBIDOS)	WINDMILL (14/15)	391931N 0091524W	295M / 145M	By day: Flashing white light By night: Fixed Red Light
SERRA D'EL REI (ÓBIDOS)	WINDMILL (15/15)	391916N 0091515W	302M / 145M	By day: Flashing white light By night: Fixed Red Light
SERRA DE SAMPAIO - PENEDONO - SAO JOAO DA PESQUEIRA	AEOLIC PARK (1/10)	410255N 0072554W	1036M / 126M	By day: Flashing White Light By night: Fixed Red Light
SERRA DE SAMPAIO - PENEDONO - SAO JOAO DA PESQUEIRA	AEOLIC PARK (2/10)	410304N 0072557W	1046M / 126M	
SERRA DE SAMPAIO - PENEDONO - SAO JOAO DA PESQUEIRA	AEOLIC PARK (3/10)	410312N 0072610W	1030M / 126M	
SERRA DE SAMPAIO - PENEDONO - SAO JOAO DA PESQUEIRA	AEOLIC PARK (4/10)	410324N 0072616W	1036M / 126M	By day: Flashing White Light By night: Fixed Red Light
SERRA DE SAMPAIO - PENEDONO - SAO JOAO DA PESQUEIRA	AEOLIC PARK (5/10)	410323N 0072556W	1056M / 126M	By day: Flashing White Light By night: Fixed Red Light
SERRA DE SAMPAIO - PENEDONO - SAO JOAO DA PESQUEIRA	AEOLIC PARK (6/10)	410333N 0072602W	1058M / 126M	
SERRA DE SAMPAIO - PENEDONO - SAO JOAO DA PESQUEIRA	AEOLIC PARK (7/10)	410337N 0072613W	1040M / 126M	By day: Flashing White Light By night: Fixed Red Light
SERRA DE SAMPAIO - PENEDONO - SAO JOAO DA PESQUEIRA	AEOLIC PARK (8/10)	410341N 0072622W	1002M / 126M	
SERRA DE SAMPAIO - PENEDONO - SAO JOAO DA PESQUEIRA	AEOLIC PARK (9/10)	410346N 0072632W	988M / 126M	By day: Flashing White Light By night: Fixed Red Light
SERRA DE SAMPAIO - PENEDONO - SAO JOAO DA PESQUEIRA	AEOLIC PARK (10/10)	410313N 0072531W	1028 / 126M	By day: Flashing white Light By night: Fixed Red Light
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (1/21)	412559N 0074400W	1273M / 110M	
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (2/21)	412553N 0074400W	1287M / 110M	
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (3/21)	412545N 0074401W	1286M / 110M	
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (4/21)	412537N 0074409W	1281M / 110M	By day: Flashing White lights By night: Fixed Red lights
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (5/21)	412529N 0074405W	1287M / 110M	
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (6/21)	412521N 0074406W	1301M / 110M	
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (7/21)	412513N 0074409W	1287M / 110M	By day: Flashing White lights By night: Fixed Red lights
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (8/21)	412504N 0074412W	1293M / 110M	
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (9/21)	412454N 0074417W	1314M / 110M	
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (10/21)	412445N 0074427W	1332M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (11/21)	412456N 0074451W	1325M / 110M	By day: Flashing White lights By night: Fixed Red lights
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (12/21)	412447N 0074451W	1336M / 110M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SERRA DO ALVAO - RIBEIRA DE PENNA / VILA REAL	WINDMILL (13/21)	412439N 0074457W	1351M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENNA / VILA REAL	WINDMILL (14/21)	412428N 0074457W	1359M / 110M	
SERRA DO ALVAO - RIBEIRA DE PENNA / VILA REAL	WINDMILL (15/21)	412422N 0074508W	1405M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENNA / VILA REAL	WINDMILL (16/21)	412607N 0074358W	1269M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENNA / VILA REAL	WINDMILL (17/21)	412719N 0074412W	1255M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENNA / VILA REAL	WINDMILL (18/21)	412734N 0074446W	1235M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENNA / VILA REAL	WINDMILL (19/21)	412727N 0074448W	1245M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENNA / VILA REAL	WINDMILL (20/21)	412719N 0074448W	1223M / 110M	
SERRA DO ALVAO - RIBEIRA DE PENNA / VILA REAL	WINDMILL (21/21)	412712N 0074454W	1219M / 110M	
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (1/6)	412850N 0074643W	1164M / 100M	Fixed Red Lights
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (2/6)	412842N 0074640W	1193M / 100M	
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (3/6)	412833N 0074631W	1234M / 100M	
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (4/6)	412827N 0074621W	1234M / 100M	Fixed Red Lights
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (5/6)	412818N 0074611W	1217M / 100M	
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (6/6)	412812N 0074607W	1225M / 100M	Fixed Red Lights
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (1/9)	414121N 0075239W	1317M / 107M	fixed Red Light
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (2/9)	414111N 0075242W	1297M / 107M	
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (3/9)	414058N 0075236W	1292M / 107M	
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (4/9)	414048N 0075237W	1297M / 107M	Fixed Red Light
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (5/9)	414111N 0075208W	1337M / 107M	
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (6/9)	414159N 0075206W	1345M / 107M	Flashing Red Light
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (7/9)	414047N 0075148W	1286M / 107M	
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (8/9)	414157N 0075140W	1306M / 107M	Fixed Red Light
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (9/9)	414145N 0075120W	1357M / 107M	Fixed Red Light
SERRA DO BARROSO II - BOTICAS	WINDMILL (1/6)	414135N 0075057W	1389M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
SERRA DO BARROSO II - BOTICAS	WINDMILL (2/6)	414127N 0075056W	1353M / 126M	
SERRA DO BARROSO II - BOTICAS	WINDMILL (3/6)	414146N 0075032W	1382M / 126M	
SERRA DO BARROSO II - BOTICAS	WINDMILL (4/6)	414140N 0075027W	1342M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
SERRA DO BARROSO II - BOTICAS	WINDMILL (5/6)	414155N 0075024W	1349M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
SERRA DO BARROSO II - BOTICAS	WINDMILL (6/6)	414210N 0075009W	1173M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
SERRA DO BARROSO III - BOTICAS	WINDMILL (1/11)	414037N 0075104W	1275M / 126M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (2/11)	414047N 0075059W	1301M / 126M	
SERRA DO BARROSO III - BOTICAS	WINDMILL (3/11)	414057N 0075042W	1331M / 126M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (4/11)	414059N 0075102W	1326M / 126M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (5/11)	414106N 0075107W	1336M / 126M	
SERRA DO BARROSO III - BOTICAS	WINDMILL (6/11)	414115N 0075108W	1336M / 126M	By day: Flashing white light By night: Fixed red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SERRA DO BARROSO III - BOTICAS	WINDMILL (7/11)	414112N 0075019W	1279M / 126M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (8/11)	414121N 0075036W	1309M / 126M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (9/11)	414142N 0075102W	1381M / 131M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (10/11)	414153N 0075045W	1351M / 131M	
SERRA DO BARROSO III - BOTICAS	WINDMILL (11/11)	414155N 0075120W	1351M / 131M	By day: Flashing white light By night: Fixed red light
SERRA DO CABECO DA RAINHA (OLEIROS)	AEOLIC PARK (18/20)	395118N 0075449W	1130M / 100M	
SERRA DO CABECO DA RAINHA (OLEIROS)	AEOLIC PARK (19/20)	395122N 0075441W	1120M / 100M	
SERRA DO CUME NORTE - ILHA TERCEIRA	WINDMILL (5/5)	384312N 0270728W	594M / 119M	By Day: Flashing white light By Night: Fixed red light
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (1/14)	414516N 0073825W	1138M / 131M	By Day: Flashing white light By Night: Fixed red light
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (2/14)	414507N 0073834W	1189M / 131M	
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (3/14)	414457N 0073845W	1197M / 131M	By Day: Flashing white light By Night: Fixed red light
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (4/14)	414438N 0073900W	1188M / 131M	By Day: Flashing white light By Night: Fixed red light
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (5/14)	414428N 0073910W	1206M / 131M	
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (6/14)	414415N 0073919W	1227M / 131M	By Day: Flashing white light By Night: Fixed red light
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (7/14)	414417N 0073855W	1208M / 131M	
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (8/14)	414405N 0073906W	1262M / 131M	By Day: Flashing white light By Night: Fixed red light
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (9/14)	414358N 0073923W	1244M / 131M	By Day: Flashing white light By Night: Fixed red light
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (10/14)	414358N 0073841W	1259M / 131M	By Day: Flashing white light By Night: Fixed red light
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (11/14)	414347N 0073903W	1238M / 131M	
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (12/14)	414340N 0073848W	1238M / 131M	By Day: Flashing white light By Night: Fixed red light
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (13/14)	414339N 0073926W	1174M / 131M	By Day: Flashing white light By Night: Fixed red light
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (14/14)	414328N 0074014W	1145M / 131M	By Day: Flashing white light By Night: Fixed red light
SERRA DO MARAO II	MAST	411443N 0075307W	1505M / 100M	Flashing Red Light
SERRA DO MU - ALMODOVAR	WINDMILL (1/13)	372230N 0080708W	614M / 125M	By Day: flashing white light By Night: fixed red light
SERRA DO MU - ALMODOVAR	WINDMILL (2/13)	372222N 0080657W	630M / 125M	By Day: flashing white light By Night: fixed red light
SERRA DO MU - ALMODOVAR	WINDMILL (3/13)	372217N 0080621W	638M / 125M	By Day: flashing white light By Night: fixed red light
SERRA DO MU - ALMODOVAR	WINDMILL (4/13)	372219N 0080607W	649M / 125M	
SERRA DO MU - ALMODOVAR	WINDMILL (5/13)	372218N 0080554W	640M / 125M	
SERRA DO MU - ALMODOVAR	WINDMILL (6/13)	372220N 0080546W	620M / 125M	By Day: flashing white light By Night: fixed red light
SERRA DO MU - ALMODOVAR	WINDMILL (7/13)	372220N 0080533W	630M / 125M	
SERRA DO MU - ALMODOVAR	WINDMILL (8/13)	372234N 0080520W	677M / 125M	
SERRA DO MU - ALMODOVAR	WINDMILL (9/13)	372222N 0080511W	680M / 125M	By Day: flashing white light By Night: fixed red light
SERRA DO MU - ALMODOVAR	WINDMILL (10/13)	372219N 0080443W	690M / 125M	By Day: flashing white light By Night: fixed red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SERRA DO MU - ALMODOVAR	WINDMILL (11/13)	372256N 0080443W	660M / 125M	By Day: flashing white light By Night: fixed red light
SERRA DO MU - ALMODOVAR	WINDMILL (12/13)	372257N 0080454W	667M / 125M	
SERRA DO MU - ALMODOVAR	WINDMILL (13/13)	372259N 0080505W	687M / 125M	By Day: flashing white light By Night: fixed red light
SERRA DO RALO	WINDMILL (1/18)	403532N 0072327W	1051M / 111M	By night: fixed red light
SERRA DO RALO	WINDMILL (2/18)	403523N 0072335W	1064M / 111M	
SERRA DO RALO	WINDMILL (3/18)	403519N 0072340W	1081M / 111M	
SERRA DO RALO	WINDMILL (4/18)	403513N 0072344W	1091M / 111M	By day: flashing white light By night: fixed red light
SERRA DO RALO	WINDMILL (5/18)	403504N 0072349W	1101M / 111M	
SERRA DO RALO	WINDMILL (6/18)	403457N 0072354W	1111M / 111M	
SERRA DO RALO	WINDMILL (7/18)	403451N 0072356W	1118M / 111M	By day: flashing white light By night: fixed red light
SERRA DO RALO	WINDMILL (8/18)	403444N 0072405W	1111M / 111M	
SERRA DO RALO	WINDMILL (9/18)	403439N 0072411W	1120M / 111M	
SERRA DO RALO	WINDMILL (10/18)	403434N 0072420W	1121M / 111M	By day: flashing white light By night: fixed red light
SERRA DO RALO	WINDMILL (11/18)	403429N 0072428W	1112M / 111M	
SERRA DO RALO	WINDMILL (12/18)	403422N 0072433W	1091M / 111M	
SERRA DO RALO	WINDMILL (13/18)	403414N 0072436W	1069M / 111M	By day: flashing white light By night: fixed red light
SERRA DO RALO	WINDMILL (14/18)	403407N 0072441W	1064M / 111M	
SERRA DO RALO	WINDMILL (15/18)	403401N 0072451W	1053M / 111M	
SERRA DO RALO	WINDMILL (16/18)	403357N 0072454W	1041M / 111M	By night: fixed red light
SERRA DO RALO	WINDMILL (17/18)	403604N 0072309W	1038M / 179M	By day: flashing white light By night: fixed red light
SERRA DO RALO	WINDMILL (18/18)	403556N 0072319W	1050M / 179M	By day: flashing white light By night: fixed red light
SERRA DO SICÓ	WINDMILL (1/11)	395625N 0083348W	492M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
SERRA DO SICÓ	WINDMILL (2/11)	395620N 0083338W	520M / 126M	
SERRA DO SICÓ	WINDMILL (3/11)	395615N 0083330W	515M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
SERRA DO SICÓ	WINDMILL (4/11)	395552N 0083342W	510M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
SERRA DO SICÓ	WINDMILL (5/11)	395541N 0083348W	496M / 126M	
SERRA DO SICÓ	WINDMILL (6/11)	395525N 0083414W	512M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
SERRA DO SICÓ	WINDMILL (7/11)	395529N 0083356W	503M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
SERRA DO SICÓ	WINDMILL (8/11)	395516N 0083404W	515M / 126M	
SERRA DO SICÓ	WINDMILL (9/11)	395501N 0083411W	500M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
SERRA DO SICÓ	WINDMILL (10/11)	395458N 0083401W	503M / 126M	By Day: Flashing White lights By Night: Fixed Red lights
SERRA DO SICÓ	WINDMILL (11/11)	395500N 0083421W	540M / 180M	By Day: Flashing White lights By Night: Fixed Red lights
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (1/26)	392305N 0085713W	432M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (2/26)	392221N 0085729W	442M / 125M	Flashing Red Light
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (3/26)	392230N 0085719W	438M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (4/26)	392237N 0085726W	435M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (5/26)	392245N 0085723W	423M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (6/26)	392248N 0085710W	429M / 125M	Flashing Red Light
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (7/26)	392257N 0085716W	431M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (8/26)	392301N 0085650W	447M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (9/26)	392315N 0085705W	443M / 125M	Flashing Red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (10/26)	392311N 0085645W	458M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (11/26)	392325N 0085702W	447M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (12/26)	392320N 0085641W	457M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (13/26)	392328N 0085636W	461M / 125M	Flashing Red Light
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (14/26)	392339N 0085623W	479M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (15/26)	392348N 0085618W	507M / 125M	Flashing Red Light
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (16/26)	392250N 0085649W	417M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (17/26)	392707N 0085440W	575M / 125M	Flashing Red Light
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (18/26)	392642N 0085457W	590M / 125M	Flashing Red Light
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (19/26)	392659N 0085449W	576M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (20/26)	392533N 0085543W	564M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (21/26)	392520N 0085547W	537M / 125M	Flashing Red Light
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (22/26)	392530N 0085526W	588M / 125M	Flashing Red Light
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (23/26)	392559N 0085521W	608M / 125M	Flashing Red Light
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (24/26)	392609N 0085510W	611M / 125M	
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (25/26)	392622N 0085503W	607M / 125M	Flashing Red Light
SERRA DOS CANDEEIROS (RIO MAIOR)	AEOLIC PARK (26/26)	392633N 0085458W	596M / 125M	
SETUBAL	CHIMNEY (1/2)	383036N 0085038W	204M / 200M	Fixed Red Light
SETUBAL	CHIMNEY (2/2)	383033N 0085041W	204M / 200M	Fixed Red Light
SIDERURGIA NACIONAL	CHIMNEY	383738N 0090417W	134M / 126M	
SINES I	Chimney	375545N 0084817W	277M / 234M	Flashing Red Light
SINES II	MAST	375625N 0084505W	220M / 140M	
SINES III	Chimney	375720N 0084823W	242M / 225M	Flashing Red Light
SINES IV	Chimney	375827N 0084938W	136M / 106M	Flashing Red Light
SINES V	Chimney	375848N 0084938W	180M / 150M	Flashing Red Light
SINES VI	Chimney	375849N 0084859W	136M / 106M	Flashing Red Light
SINES VII	Chimney	375552N 0084807W	244M / 229M	
SIRIGO - PENEDONO	WINDMILL (1/2)	405746N 0072325W	1092M / 120M	
SIRIGO - PENEDONO	WINDMILL (2/2)	405753N 0072327W	1102M / 120M	By Day: Flashing white light By Night: Flashing red light
SOBRAL II - SOBRAL DE MONTE AGRACO	WINDMILL (1/7)	385835N 0091045W	436M / 121M	By day: Flashing white light By night: fixed red light
SOBRAL II - SOBRAL DE MONTE AGRACO	WINDMILL (2/7)	385818N 0091036W	441M / 121M	
SOBRAL II - SOBRAL DE MONTE AGRACO	WINDMILL (3/7)	385802N 0091035W	433M / 121M	By day: Flashing white light By night: fixed red light
SOBRAL II - SOBRAL DE MONTE AGRACO	WINDMILL (4/7)	385802N 0091018W	433M / 121M	
SOBRAL II - SOBRAL DE MONTE AGRACO	WINDMILL (5/7)	385814N 0091023W	416M / 121M	
SOBRAL II - SOBRAL DE MONTE AGRACO	WINDMILL (6/7)	385833N 0091130W	381M / 121M	By day: Flashing white light By night: fixed red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SOBRAL II - SOBRAL DE MONTE AGRACO	WINDMILL (7/7)	385833N 0091047W	403M / 121M	
TEIXEIRO - BAIÃO	WINDMILL (1/7)	411206N 0075326W	1149M / 120M	Fixed Red Light
TEIXEIRO - BAIÃO	WINDMILL (2/7)	411159N 0075325W	1125M / 120M	
TEIXEIRO - BAIÃO	WINDMILL (3/7)	411151N 0075326W	1103M / 120M	
TEIXEIRO - BAIÃO	WINDMILL (4/7)	411142N 0075327W	1070M / 120M	Fixed Red Light
TEIXEIRO - BAIÃO	WINDMILL (5/7)	411135N 0075322W	1048M / 120M	
TEIXEIRO - BAIÃO	WINDMILL (6/7)	411127N 0075319W	1032M / 120M	
TEIXEIRO - BAIÃO	WINDMILL (7/7)	411119N 0075319W	1009M / 120M	Fixed Red Light
TEJO BRIDGE	TOWER	384112N 0091038W	191M / 191M	Fixed Red Light
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (1/40)	413031N 0080508W	848M / 110M	By day: Flashing white light By night: Fixed Red Light
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (2/40)	413029N 0080500W	830M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (3/40)	413029N 0080449W	820M / 110M	By day: Flashing white light By night: Fixed Red Light
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (4/40)	413039N 0080606W	823M / 110M	By day: Flashing white light By night: Fixed Red Light
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (5/40)	413032N 0080555W	824M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (6/40)	413028N 0080548W	831M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (7/40)	413024N 0080540W	845M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (8/40)	413010N 0080538W	848M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (9/40)	413013N 0080520W	837M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (10/40)	413009N 0080513W	834M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (11/40)	413007N 0080500W	824M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (12/40)	413033N 0081547W	782M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (13/40)	412956N 0080440W	758M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (14/40)	412950N 0080429W	754M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (15/40)	412944N 0080421W	803M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (16/40)	412934N 0080420W	804M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (17/40)	412929N 0080412W	836M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (18/40)	412924N 0080407W	840M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (19/40)	412919N 0080400W	855M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (20/40)	412912N 0080355W	832M / 110M	By day: Flashing white light By night: Fixed Red Light
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (21/40)	412957N 0080540W	828M / 110M	By day: Flashing white light By night: Fixed Red Light
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (22/40)	412923N 0080432W	833M / 110M	By day: Flashing white light By night: Fixed Red Light
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (23/40)	412920N 0080421W	841M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (24/40)	412850N 0080404W	829M / 110M	By day: Flashing white light By night: Fixed Red Light
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (25/40)	412834N 0080519W	788M / 110M	By day: Flashing white light By night: Fixed Red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (26/40)	412825N 0080523W	789M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (27/40)	412819N 0080518W	829M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (28/40)	412812N 0080444W	866M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (29/40)	412832N 0080419W	885M / 110M	By day: Flashing white light By night: Fixed Red Light
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (30/40)	412820N 0080423W	875M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (31/40)	412805N 0080422W	937M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (32/40)	412754N 0080427W	949M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (33/40)	412745N 0080440W	924M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (34/40)	412736N 0080444W	898M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (35/40)	412747N 0080416W	944M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (36/40)	412748N 0080402W	951M / 110M	By day: Flashing white light By night: Fixed Red Light
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (37/40)	412739N 0080409W	933M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (38/40)	412729N 0080416W	933M / 110M	
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (39/40)	412718N 0080436W	887M / 110M	By day: Flashing white light By night: Fixed Red Light
TERRAS ALTAS DE FAFE (CELORICO DE BASTO)	AEOLIC PARK (40/40)	412759N 0080541W	793M / 110M	By day: Flashing white light By night: Fixed Red Light
TESTOS	WINDMILL (1/14)	405943N 0075102W	1155M / 126M	By Day: flashing white light By Night: Fixed red light
TESTOS	WINDMILL (2/14)	405933N 0075103W	1180M / 126M	
TESTOS	WINDMILL (3/14)	405923N 0075102W	1183M / 126M	
TESTOS	WINDMILL (4/14)	405914N 0075058W	1179M / 126M	
TESTOS	WINDMILL (5/14)	405911N 0075122W	1153M / 126M	By Day: flashing white light By Night: Fixed red light
TESTOS	WINDMILL (6/14)	405908N 0075024W	1165M / 126M	By Day: flashing white light By Night: Fixed red light
TESTOS	WINDMILL (7/14)	405857N 0075049W	1190M / 126M	
TESTOS	WINDMILL (8/14)	405847N 0075111W	1191M / 126M	By Day: flashing white light By Night: Fixed red light
TESTOS	WINDMILL (9/14)	405843N 0075053W	1186M / 126M	
TESTOS	WINDMILL (10/14)	405832N 0075047W	1164M / 126M	
TESTOS	WINDMILL (11/14)	405826N 0075103W	1158M / 126M	
TESTOS	WINDMILL (12/14)	405822N 0075041W	1166M / 126M	By Day: flashing white light By Night: Fixed red light
TESTOS	WINDMILL (13/14)	405957N 0075054W	1158M / 145M	
TESTOS	WINDMILL (14/14)	405808N 0075048W	1144M / 145M	By Day: flashing white light By Night: Fixed red light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (1/22)	405900N 0074854W	1133M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (2/22)	405908N 0074901W	1132M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (3/22)	405743N 0075019W	1145M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (4/22)	405804N 0075028W	1137M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (5/22)	405759N 0075009W	1158M / 126M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
TESTOS II - LAMEGO - TAROUCA	WINDMILL (6/22)	405814N 0075010W	1158M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (7/22)	405829N 0075012W	1151M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (8/22)	405844N 0075012W	1154M / 126M	
TESTOS II - LAMEGO - TAROUCA	WINDMILL (9/22)	405855N 0075009W	1149M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (10/22)	405919N 0075137W	1178M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (11/22)	405918N 0075149W	1158M / 126M	
TESTOS II - LAMEGO - TAROUCA	WINDMILL (12/22)	405925N 0075159W	1159M / 126M	
TESTOS II - LAMEGO - TAROUCA	WINDMILL (13/22)	405925N 0075214W	1176M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (14/22)	405934N 0075216W	1188M / 126M	
TESTOS II - LAMEGO - TAROUCA	WINDMILL (15/22)	405939N 0075225W	1176M / 126M	
TESTOS II - LAMEGO - TAROUCA	WINDMILL (16/22)	405951N 0075225W	1154M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (17/22)	405959N 0075229W	1149M / 126M	
TESTOS II - LAMEGO - TAROUCA	WINDMILL (18/22)	410003N 0075149W	1150M / 126M	
TESTOS II - LAMEGO - TAROUCA	WINDMILL (19/22)	410003N 0075203W	1158M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (20/22)	410012N 0075216W	1128M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (21/22)	410011N 0075044W	1129M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TESTOS II - LAMEGO - TAROUCA	WINDMILL (22/22)	410019N 0075048W	1138M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
TOCHA - CANTANHEDE	WINDMILL (1/5)	401924N 0084914W	169M / 145M	
TOCHA - CANTANHEDE	WINDMILL (2/5)	401928N 0084838W	175M / 145M	By day: Flashing white Light By night: Fixed Red Light
TOCHA - CANTANHEDE	WINDMILL (3/5)	401902N 0084927W	167M / 145M	By day: Flashing white Light By night: Fixed Red Light
TOCHA - CANTANHEDE	WINDMILL (4/5)	401907N 0084850W	175M / 145M	By day: Flashing white Light By night: Fixed Red Light
TOCHA - CANTANHEDE	WINDMILL (5/5)	401851N 0084904W	175M / 145M	By day: Flashing white Light By night: Fixed Red Light
TODO O MUNDO / CADAVAL	WINDMILL (1/5)	391718N 0090157W	373M / 120M	By day: Flashing White lights By night: Fixed Red lights
TODO O MUNDO / CADAVAL	WINDMILL (2/5)	391724N 0090150W	374M / 120M	
TODO O MUNDO / CADAVAL	WINDMILL (3/5)	391733N 0090141W	379M / 120M	
TODO O MUNDO / CADAVAL	WINDMILL (4/5)	391734N 0090130W	372M / 120M	
TODO O MUNDO / CADAVAL	WINDMILL (5/5)	391735N 0090119W	360M / 120M	By day: Flashing White lights By night: Fixed Red lights
TORRES VEDRAS	TOWER	391042N 0091353W	196M / 100M	Day and night signalized
TOUTIÇO	WINDMILL (1/38)	401004N 0075108W	1059M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (2/38)	401008N 0075057W	1037M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (3/38)	401015N 0074941W	1248M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (4/38)	401000N 0074939W	1253M / 125M	
TOUTIÇO	WINDMILL (5/38)	400952N 0074937W	1259M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (6/38)	400944N 0074942W	1244M / 125M	
TOUTIÇO	WINDMILL (7/38)	400936N 0074945W	1251M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (8/38)	400929N 0074949W	1228M / 125M	
TOUTIÇO	WINDMILL (9/38)	400926N 0075001W	1150M / 125M	By Day: White flashing light By Night: Fixed red light



Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
TOUTIÇO	WINDMILL (10/38)	400917N 0075020W	1125M / 125M	
TOUTIÇO	WINDMILL (11/38)	400912N 0075029W	1129M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (12/38)	400903N 0075036W	1190M / 125M	
TOUTIÇO	WINDMILL (13/38)	400855N 0075039W	1232M / 125M	
TOUTIÇO	WINDMILL (14/38)	400853N 0075054W	1160M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (15/38)	400639N 0075704W	1129M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (16/38)	400626N 0075708W	1166M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (17/38)	400613N 0075726W	1131M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (18/38)	400530N 0075722W	1073M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (19/38)	400524N 0075711W	1085M / 125M	
TOUTIÇO	WINDMILL (20/38)	400511N 0075723W	1043M / 125M	
TOUTIÇO	WINDMILL (21/38)	400501N 0075725W	1028M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (22/38)	400519N 0075659W	1045M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (23/38)	400524N 0075643W	998M / 125M	
TOUTIÇO	WINDMILL (24/38)	400528N 0075633W	1017M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (25/38)	400523N 0075621W	965M / 125M	
TOUTIÇO	WINDMILL (26/38)	400519N 0075610W	925M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (27/38)	401235N 0075305W	1245M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (28/38)	401232N 0075316W	1229M / 125M	
TOUTIÇO	WINDMILL (29/38)	401226N 0075327W	1238M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (30/38)	401218N 0075332W	1266M / 125M	
TOUTIÇO	WINDMILL (31/38)	401209N 0075336W	1279M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (32/38)	401205N 0075347W	1265M / 125M	
TOUTIÇO	WINDMILL (33/38)	401157N 0075352W	1227M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (34/38)	401142N 0075400W	1193M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (35/38)	401120N 0075946W	1117M / 198M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (36/38)	401107N 0080004W	1134M / 198M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (37/38)	401041N 0080009W	1135M / 198M	By Day: White flashing light By Night: Fixed red light
TOUTIÇO	WINDMILL (38/38)	401026N 0080019W	1154M / 198M	By Day: White flashing light By Night: Fixed red light
TRANCOSO - TRANCOSO	AEOLIC PARK (1/14)	405042N 0072339W	1072M / 119M	By Day: flashing white light By Night: fixed red light
TRANCOSO - TRANCOSO	AEOLIC PARK (2/14)	405049N 0072333W	1100M / 119M	
TRANCOSO - TRANCOSO	AEOLIC PARK (3/14)	405056N 0072340W	1068M / 119M	
TRANCOSO - TRANCOSO	AEOLIC PARK (4/14)	405107N 0072326W	1090M / 119M	By Day: flashing white light By Night: fixed red light
TRANCOSO - TRANCOSO	AEOLIC PARK (5/14)	405114N 0072327W	1100M / 119M	
TRANCOSO - TRANCOSO	AEOLIC PARK (6/14)	405118N 0072333W	1073M / 119M	By Day: flashing white light By Night: fixed red light
TRANCOSO - TRANCOSO	AEOLIC PARK (7/14)	405124N 0072253W	1079M / 119M	By Day: flashing white light By Night: fixed red light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
TRANCOSO - TRANCOSO	AEOLIC PARK (8/14)	405139N 0072239W	1060M / 119M	By Day: flashing white light By Night: fixed red light
TRANCOSO - TRANCOSO	AEOLIC PARK (9/14)	405146N 0072246W	1059M / 119M	
TRANCOSO - TRANCOSO	AEOLIC PARK (10/14)	405154N 0072248W	1071M / 119M	
TRANCOSO - TRANCOSO	AEOLIC PARK (11/14)	405159N 0072300W	1079M / 119M	By Day: flashing white light By Night: fixed red light
TRANCOSO - TRANCOSO	AEOLIC PARK (12/14)	405205N 0072248W	1069M / 119M	By Day: flashing white light By Night: fixed red light
TRANCOSO - TRANCOSO	AEOLIC PARK (13/14)	405142N 0072211W	1060M / 119M	
TRANCOSO - TRANCOSO	AEOLIC PARK (14/14)	405136N 0072208W	1053M / 119M	By Day: flashing white light By Night: fixed red light
TREVIM II	MAST	400514N 0081047W	1312M / 112M	Flashing Red Light
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (1/13)	390050N 0091957W	276M / 126M	By Day: Flashing white light By Night: Fixed red light
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (2/13)	390043N 0091924W	313M / 126M	
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (3/13)	390045N 0091914W	329M / 126M	By Day: Flashing white light By Night: Fixed red light
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (4/13)	390046N 0091859W	341M / 126M	By Day: Flashing white light By Night: Fixed red light
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (5/13)	390111N 0092007W	261M / 126M	By Day: Flashing white light By Night: Fixed red light
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (6/13)	390117N 0092000W	296M / 126M	
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (7/13)	390125N 0091957W	276M / 126M	By Day: Flashing white light By Night: Fixed red light
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (8/13)	390127N 0091941W	313M / 126M	
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (9/13)	390135N 0091944W	306M / 126M	By Day: Flashing white light By Night: Fixed red light
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (10/13)	390253N 0091851W	243M / 126M	By Day: Flashing white light By Night: Fixed red light
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (11/13)	390250N 0091842W	245M / 126M	By Day: Flashing white light By Night: Fixed red light
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (12/13)	390254N 0091833W	270M / 126M	
VALE DE GALEGOS - VENTOSA E FREIRIA - TORRES VEDRAS	AEOLIC PARK (13/13)	390256N 0091825W	257M / 126M	By Day: Flashing white light By Night: Fixed red light
VALE GRANDE / ARGANIL	WINDMILL (1/6)	401104N 0075527W	1123M / 125M	By day: Flashing White lights By night: Fixed Red lights
VALE GRANDE / ARGANIL	WINDMILL (2/6)	401107N 0075511W	1131M / 125M	
VALE GRANDE / ARGANIL	WINDMILL (3/6)	401116N 0075457W	1139M / 125M	By day: Flashing White lights By night: Fixed Red lights
VALE GRANDE / ARGANIL	WINDMILL (4/6)	401121N 0075444W	1146M / 125M	
VALE GRANDE / ARGANIL	WINDMILL (5/6)	401124N 0075425W	1187M / 125M	By day: Flashing White lights By night: Fixed Red lights
VALE GRANDE / ARGANIL	WINDMILL (6/6)	401128N 0075414W	1194M / 125M	By day: Flashing White lights By night: Fixed Red lights
VASCO DA GAMA BRIDGE	TOWER (1/4)	384710N 0090526W	148M / 148M	Flashing White Light
VASCO DA GAMA BRIDGE	TOWER (2/4)	384711N 0090526W	148M / 148M	Flashing White Light
VASCO DA GAMA BRIDGE	TOWER (3/4)	384708N 0090509W	148M / 148M	Flashing White Light
VASCO DA GAMA BRIDGE	TOWER (4/4)	384709N 0090508W	148M / 148M	Flashing White Light
VERGÃO	WINDMILL (1/5)	394501N 0075951W	780M / 150M	By day: Flashing White Light By night: Flashing Red Light
VERGÃO	WINDMILL (2/5)	394509N 0075939W	784M / 150M	
VERGÃO	WINDMILL (3/5)	394517N 0075928W	804M / 150M	By day: Flashing White Light By night: Flashing Red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
VERGÃO	WINDMILL (4/5)	394526N 0075906W	754M / 150M	
VERGÃO	WINDMILL (5/5)	394534N 0075848W	741M / 150M	By day: Flashing White Light By night: Flashing Red Light
VIDEIRA	WINDMILL (1/3)	395228N 0082404W	640M / 120M	By Day: Flashing White Light By Night: Flashing Red Light
VIDEIRA	WINDMILL (2/3)	395222N 0082410W	643M / 120M	
VIDEIRA	WINDMILL (3/3)	395216N 0082416W	627M / 120M	By Day: Flashing White Light By Night: Flashing Red Light
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (1/16)	403532N 0072328W	1046M / 107M	By night: Flashing Red Light
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (2/16)	403524N 0072334W	1055M / 107M	
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (3/16)	403519N 0072341W	1074M / 107M	
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (4/16)	403512N 0072345W	1082M / 107M	By day: Flashing White Light By night: Flashing Red Light
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (5/16)	403505N 0072350W	1093M / 107M	
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (6/16)	403458N 0072353W	1105M / 107M	
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (7/16)	403451N 0072356W	1110M / 107M	By day: Flashing White Light By night : Flashing Red Light
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (8/16)	403445N 0072405W	1103M / 107M	
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (9/16)	403439N 0072412W	1111M / 107M	
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (10/16)	403434N 0072421W	1118M / 107M	By day: Flashing White Light By night: Flashing Red Light
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (11/16)	403428N 0072429W	1105M / 107M	
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (12/16)	403422N 0072434W	1085M / 107M	
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (13/16)	403414N 0072437W	1063M / 107M	By day: Flashing White Light By night: Flashing Red Light
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (14/16)	403407N 0072441W	1062M / 107M	
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (15/16)	403400N 0072448W	1049M / 107M	
VIDEMONTE (CELORICO DA BEIRA)	AEOLIC PARK (16/16)	403354N 0072452W	1036M / 107M	By night: Flashing Red Light
VIGIA - TAROUCA - VISEU	WINDMILL (1/8)	405937N 0074719W	1181M / 157M	By day: Flashing White Light By night: Flashing Red Light
VIGIA - TAROUCA - VISEU	WINDMILL (2/8)	405947N 0074727W	1220M / 157M	
VIGIA - TAROUCA - VISEU	WINDMILL (3/8)	405948N 0074745W	1228M / 157M	By day: Flashing White Light By night: Flashing Red Light
VIGIA - TAROUCA - VISEU	WINDMILL (4/8)	405956N 0074801W	1230M / 157M	By day: Flashing White Light By night: Flashing Red Light
VIGIA - TAROUCA - VISEU	WINDMILL (5/8)	410009N 0074812W	1233M / 157M	By day: Flashing White Light By night: Flashing Red Light
VIGIA - TAROUCA - VISEU	WINDMILL (6/8)	410046N 0074846W	1194M / 157M	By day: Flashing White Light By night: Flashing Red Light
VIGIA - TAROUCA - VISEU	WINDMILL (7/8)	410057N 0074852W	1201M / 157M	
VIGIA - TAROUCA - VISEU	WINDMILL (8/8)	410104N 0074905W	1182M / 157M	By day: Flashing White Light By night: Flashing Red Light
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (1/17)	411817N 0075411W	1209M / 131M	By day: Flashing white light By night: Fixed red light
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (2/17)	411824N 0075404W	1164M / 131M	
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (3/17)	411830N 0075355W	1185M / 131M	
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (4/17)	411841N 0075354W	1159M / 131M	By day: Flashing white light By night: Fixed red light
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (5/17)	411851N 0075350W	1145M / 131M	
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (6/17)	411857N 0075341W	1141M / 131M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (7/17)	411902N 0075330W	1106M / 131M	By day: Flashing white light By night: Fixed red light
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (8/17)	411904N 0075315W	1062M / 131M	
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (9/17)	411909N 0075304W	1091M / 131M	
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (10/17)	411914N 0075255W	1119M / 131M	By day: Flashing white light By night: Fixed red light
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (11/17)	411919N 0075245W	1126M / 131M	
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (12/17)	411921N 0075233W	1126M / 131M	
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (13/17)	411925N 0075221W	1166M / 131M	By day: Flashing white light By night: Fixed red light
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (14/17)	411932N 0075149W	1217M / 131M	By day: Flashing white light By night: Fixed red light
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (15/17)	411937N 0075134W	1195M / 131M	By day: Flashing white light By night: Fixed red light
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (16/17)	411937N 0075118W	1192M / 131M	
VILA COVA - VILA REAL - MONDIM DE BASTO	WINDMILL (17/17)	411942N 0075106W	1238M / 131M	By day: Flashing white light By night: Fixed red light
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (1/15)	400239N 0081737W	941M / 107M	Flashing Red Light
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (2/15)	400240N 0081727W	943M / 107M	
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (3/15)	400242N 0081713W	979M / 107M	
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (4/15)	400240N 0081703W	1002M / 107M	Flashing Red Light
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (5/15)	400241N 0081653W	1000M / 107M	
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (6/15)	400243N 0081641W	1029M / 107M	
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (7/15)	400246N 0081631W	1045M / 107M	Flashing Red Light
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (8/15)	400255N 0081624W	1041M / 107M	
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (9/15)	400259N 0081616W	1017M / 107M	Flashing Red Light
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (10/15)	400259N 0081639W	1034M / 107M	Flashing Red Light
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (11/15)	400204N 0081701W	963M / 107M	Flashing Red Light
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (12/15)	400155N 0081655W	952M / 107M	
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (13/15)	400141N 0081706W	920M / 107M	Flashing Red Light
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (14/15)	400233N 0081748W	923M / 125M	By day: Flashing White Light By night: Fixed Red Light
VILA NOVA (MIRANDA DO CORVO)	AEOLIC PARK (15/15)	400229N 0081638W	991M / 125M	By day: Flashing White Light By night: Fixed Red Light
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (1/14)	400305N 0081609W	1020M / 126M	
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (2/14)	400309N 0081559W	980M / 120M	
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (3/14)	400313N 0081550W	946M / 126M	By day: Flashing white light By night: Fixed red light
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (4/14)	400312N 0081533W	938M / 126M	
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (5/14)	400311N 0081520W	977M / 126M	By day: Flashing white light By night: Fixed red light
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (6/14)	400314N 0081509W	988M / 126M	
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (7/14)	400320N 0081459W	968M / 126M	
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (8/14)	400325N 0081452W	954M / 126M	By day: Flashing white light By night: Fixed red light
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (9/14)	400336N 0081450W	984M / 126M	
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (10/14)	400344N 0081445W	996M / 126M	By day: Flashing white light By night: Fixed red light
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (11/14)	400159N 0081810W	922M / 126M	By day: Flashing white light By night: Fixed red light

<b>Designation</b>	<b>Type of obstacle</b>	<b>Coordinates</b>	<b>ELEV/ HGT GND</b>	<b>OBST LGT Type/Colour</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (12/14)	400205N 0081803W	920M / 126M	
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (13/14)	400150N 0081815W	907M / 126M	By day: Flashing white light By night: Fixed red light
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (14/14)	400356N 0081444W	1022M / 126M	By day: Flashing white light By night: Fixed red light

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**ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES**

The following rules are applicable to all the activities under this section:

- The activity shall be immediately cancelled if the operator does not hold the appropriate Licenses / Permits valid.
- Military operations will take precedence over the activity and it shall be temporarily suspended in case of operational needs.

**1. LPPC FIR - GLIDER FLYING ACTIVITY**

Designation and lateral limits	Vertical limits	Operator/User Tel Nr.	Remarks and time of ACT
1	2	3	4
AMENDOEIRA AD - LPMN 384233N 0081631W (Amendoeira AD - LPMN) - 384629N 0082208W (Lavre) - 384752N 0081208W (Ciborro) - 384543N 0080721W (Sabugueiro) - 383853N 0081239W (Montemor-o-Novo) - 384233N 0081631W (Amendoeira AD - LPMN)	FL 055 GND	LPMN AD Director Phone: +351 266 898 100 +351 964 810 487	See Note 1. Daily SR-SS.
BRAGANÇA AD - LPBG 415632N 0065510W - 415629N 0065456W along border PORTUGAL_SPAIN - 414354N 0063307W - 414318N 0063255W then a clockwise arc radius 20 KM centred on 415124N 0064227W - 415632N 0065510W	FL 060 GND	LPBG AD Director Phone: 351 932 550 351	See Note 1. Daily 0800-SS (0700-SS).
ÉVORA AD - LPEV A circle radius 5 KM centred on 383147N 0075331W (Évora AD - LPEV)	FL 150 GND	LPEV AD Director Phone: +351 266 777 127 +351 964 647 224	Activity must be previously coordinated with Beja APP FREQ 130.090MHZ or Lisboa ACC FREQ 123.755MHZ (telephone +351 218553462). See Note 2. FRI, SAT, SUN, MON and Holidays SR-SS.
MOGADOURO AD - LPMU 410804N 0064545W then a clockwise arc radius 16 NM centred on 412340N 0064104W - 412337N 0061951W - 412326N 0062002W along border PORTUGAL_SPAIN - 410831N 0064456W - 410804N 0064545W	FL 095 GND	LPMU AD Director Phone: +351 917 825 782	See Note 1. SAT, SUN and Holidays SR-SS.
PORTO SANTO CTR AREA 1 330145N 0162252W - 330130N 0162243W - 330213N 0162235W - 330145N 0162252W (Pico das Flores)	1500 FT AMSL GND	Aeroclube da Madeira Phone: +351 291 228 311 +351 962 308 580	See Note 3. Daily 0900-1800 (0800-1700).
PORTO SANTO CTR AREA 2 330359N 0161903W - 330347N 0161930W - 330347N 0161918W - 330359N 0161903W (Portela)	1500 FT AMSL GND	Aeroclube da Madeira Phone: +351 291 228 311 +351 962 308 580	See Note 3. Daily 0900-1800 (0800-1700).
SANTA CRUZ AD - LPSC A circle radius 5 NM centred on 390725N 0092248W (Santa Cruz AD - LPSC)	3000 FT AMSL SFC	LPSC AD Director Phone: +351 261 931 056 +351 967 603 856	See Note 1. SAT, SUN and Holidays SR-SS.

**Note 1: Use of area shall be previously requested to Lisboa ACC by telephone (+351 218 553 462).**

**The user shall report the end of activity to Lisboa ACC by telephone.**

**Note 2: The user shall report the end of activity to ATS provider by telephone.**

**Note 3: Activity subject to previous coordination with Porto Santo TWR.**

2. LPPC FIR - PARACHUTE JUMPING EXERCISES ACTIVITY

Designation and lateral limits	Vertical limits	Operator/User Tel Nr.	Remarks and time of ACT
1	2	3	4
BRAGA AD - LPBR A circle radius 5 KM centred on 413513N 0082642W (Braga AD - LPBR)	FL 150 GND	LPBR AD Director Phone: +351 965 015 369	Use of area shall be previously coordinated with Porto TWR, aircraft shall climb initially to 2000FT and contact Porto APP. See Note 2. Daily SR-SS.
ESPINHO AD - LPIN A circle radius 3 NM centred on 405839N 0083831W (Espinho AD - LPIN)	FL 140 SFC	LPIN AD Director Phone: +351 939 264 408	Use of area shall be previously coordinated with Ovar APP FREQ 118.590MHZ or Lisboa ACC by telephone (+351 218 553 462) and above 2000FT AMSL only after coordination with Porto APP. See Note 2. Daily SR-SS.
ÉVORA AD - LPEV A circle radius 5 KM centred on 383147N 0075331W (Évora AD - LPEV)	FL 150 GND	LPEV AD Director Phone: +351 266 777 127 +351 964 647 224	Activity must be previously coordinated with Beja APP FREQ 130.090MHZ or Lisboa ACC FREQ 123.755MHZ (telephone +351 218 553 462). See Note 2. Daily SR-SS.
PORTIMÃO AD - LPPM A circle radius 3 NM centred on 370858N 0083502W (Portimão AD - LPPM)	FL 150 SFC	LPPM AD Director Phone: +351 282 480 360 +351 910 200 585	No aircraft other than those participating in the activity may enter Portimão PJE area, while parachutists are airborne. Above 1000FT AMSL, activity shall be coordinated with Faro TWR and approval is subject to the existing traffic. See Note 2. Daily 0800-SS (0700-SS).
PROENÇA-A-NOVA - LPPN A circle radius 5 NM centred on 394352N 0075229W (Proença-a-Nova AD - LPPN)	FL 170 GND	LPPN AD Director Phone: +351 937 527 415 or +351 965 095 196	Above FL095, activity is subject to coordination and approval by the ATS provider. See Note 1. Daily SR-SS.
TANCOS AD - LPTN A circle radius 5 KM centred on 392831N 0082221W (Tancos AD - LPTN)	FL 130 GND	Pára-Clube Nacional Os Boinas Verdes Phone: +351 249 711 449	Above FL055 will take place only after coordination with Lisboa ACC and approval will be subject to traffic. See Note 1. SAT, SUN, Holidays and 13th JUN: SR-SS.
VILAR DE LUZ AD - LPVL A circle radius 2 NM centred on 411645N 0083102W (Vilar de Luz AD - LPVL)	11750 FT AMSL GND	LPVL AD Director Phone: +351 938 707 012	The aircraft must initially climb to 2000 FT QNH and contact Porto APP to request higher levels. See Note 2. Daily 0900-SS (0800-SS).
<p><b>Note 1: Use of area shall be previously requested to Lisboa ACC by telephone (+351 218553462). The user shall report the end of activity to Lisboa ACC by telephone.</b></p> <p><b>Note 2. The user shall report the end of activity to ATS provider.</b></p>			



## 3. LPPC FIR - AEROBATIC FLIGHT ACTIVITIES

Designation and lateral limits	Vertical limits	Operator/User Tel Nr.	Remarks and time of ACT
1	2	3	4
SANTARÉM - COSME PEDROGÃO AD - LPSR Area located ESE of LPSR 391243N 0084055W - 391235N 0084016W - 391203N 0084029W - 391213N 0084108W - 391243N 0084055W	FL 045 GND	LPSR AD Director Phone: +351 933 344 490	See Note 1. Daily SR-SS.
<b>Note 1: Use of area shall be previously requested to Lisboa ACC by telephone (+351 218 553 462). The user shall report the end of activity to Lisboa ACC by telephone.</b>			

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**ENR 6 EN-ROUTE CHARTS****6.1 INDEX OF CHARTS**

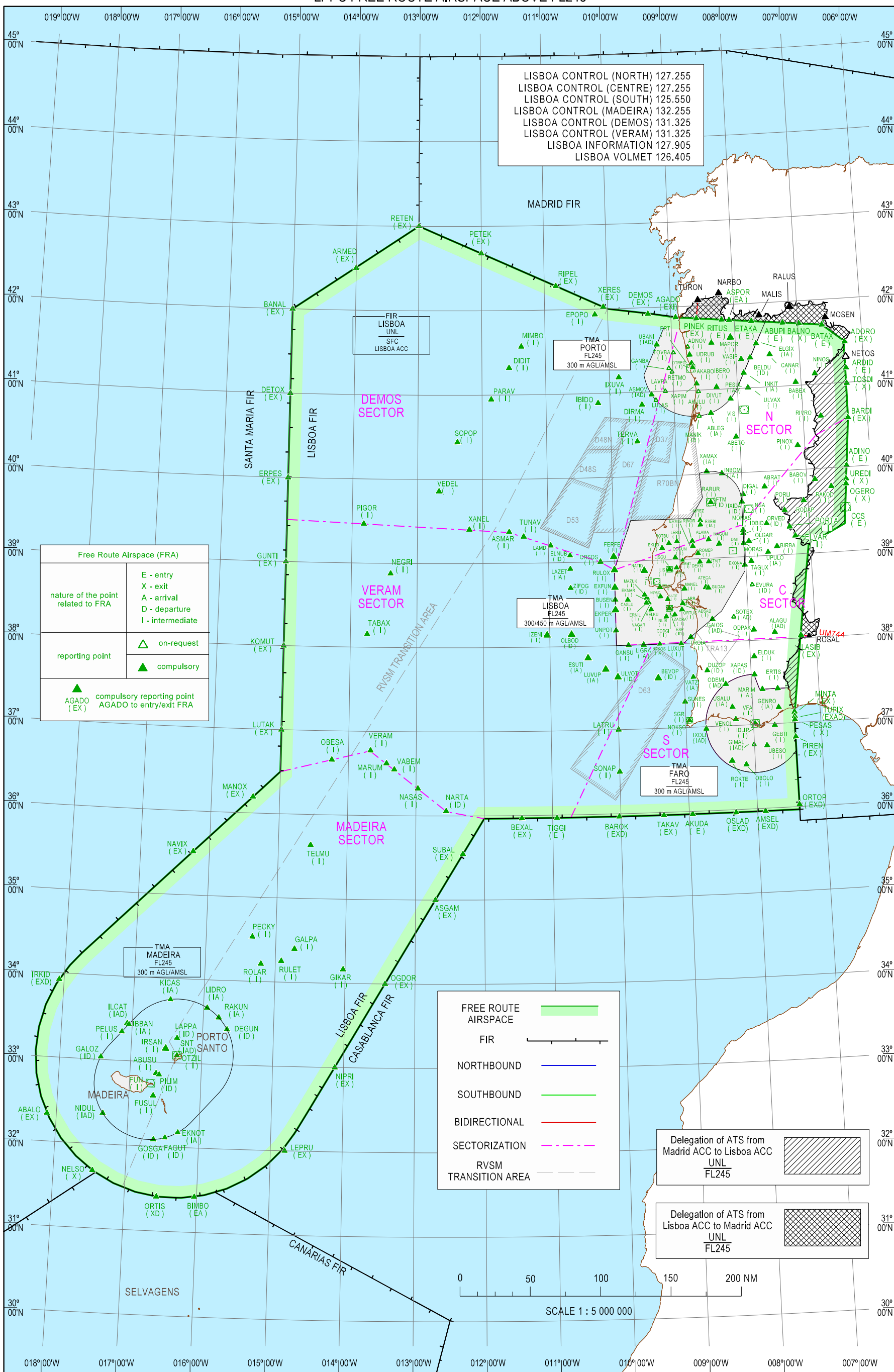
<b>Title</b>	<b>Page</b>
ENR 6 – Enroute Chart – ICAO LPPC Lower Airspace	ENR 6.01-1
ENR 6 – Enroute Chart – ICAO LPPC Upper Airspace (FL195-FL245)	ENR 6.01-3
ENR 6 – Enroute Chart – ICAO LPPC Free Route Airspace above FL245	ENR 6.01-5
ENR 6 – Enroute Chart – Tango Routes LPPO and LPPC	ENR 6.01-7
ENR 6 – Enroute Chart – Santa Maria Oceanic FIR (LPPO)	ENR 6.01-9
ENR 6 – Terminal Area Chart – Santa Maria TMA (Inbound, Outbound and Transit Routing)	ENR 6.02-1
ENR 6 – Terminal Area Chart – Santa Maria TMA (Inbound, Outbound and Transit Routing – Central Group)	ENR 6.02-3
ENR 6 – Terminal Area Chart – Madeira TMA (Inbound, Outbound and Transit Routing)	ENR 6.02-5
ENR 6 – Terminal Area Chart – Lisboa TMA (Inbound, Outbound and Transit Routing)	ENR 6.02-7
ENR 6 – Terminal Area Chart – Faro TMA (Inbound, Outbound and Transit Routing)	ENR 6.02-9
ENR 6 – Terminal Area Chart – Porto TMA (Inbound, Outbound and Transit Routing)	ENR 6.02-11
ENR 6 – VFR Routes in Lisboa TMA	ENR 6.03-1
ENR 6 – VFR Routes in Porto TMA	ENR 6.03-3
ENR 6 – VFR Routes in Faro TMA	ENR 6.03-5
ENR 6 – VFR Helicopter Routes in Lisboa CTR	ENR 6.03-7
ENR 6 – Prohibited, Restricted and Danger areas - Index chart - Non-AMC manageable Airspace	ENR 6.04-1
ENR 6 – Prohibited, Restricted and Danger areas - Index chart - Non-AMC manageable Airspace	ENR 6.04-3
ENR 6 – Restricted and Danger areas - Index chart - AMC manageable Airspace	ENR 6.04-5
ENR 6 – Temporary Reserved areas - Index chart - AMC manageable Airspace	ENR 6.04-7

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ENROUTE CHART - ICAO

AIR TRAFFIC SERVICE SYSTEM  
LPPC FREE ROUTE AIRSPACE ABOVE FL245

LPPC



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Phone:+351 214444545

SkyValet

URL:www.skyvalet.com

Email:lpcs.fbo@skyvalet.pt

Phone:+351 211328947

Phone:+351 910996318

Wexjet Aviation

URL:www.wexjet.com

Email:handling@wexjet.com

Phone:+351 218701025

## LPCS AD 2.24 CHARTS RELATED TO AN AERODROME

Name	Page
AERODROME CHART - ICAO	LPCS AD 2.24.01-1
AIRCRAFT PARKING/DOCKING CHART ICAO - APRONS C AND D	LPCS AD 2.24.02-1
AIRCRAFT PARKING/DOCKING CHART ICAO - APRONS A AND B	LPCS AD 2.24.02-3
AIRCRAFT PARKING/DOCKING CHART ICAO - APRON E	LPCS AD 2.24.02-5
STANDARD DEPARTURE INSTRUMENT (SID) - RWY 17	LPCS AD 2.24.08-1
STANDARD DEPARTURE INSTRUMENT (SID) - RWY 35	LPCS AD 2.24.08-3
STANDARD DEPARTURE INSTRUMENT (SID) - RNAV RWY 17	LPCS AD 2.24.08-5
STANDARD DEPARTURE INSTRUMENT (SID) - RNAV RWY 35	LPCS AD 2.24.08-9
STANDARD ARRIVAL INSTRUMENT (STAR) - RNAV RWY 35	LPCS AD 2.24.10-1
INSTRUMENT APPROACH CHART ICAO - DVOR/DME RWY 35 CAT A-B	LPCS AD 2.24.12-1
INSTRUMENT APPROACH CHART ICAO - RNP RWY 35 CAT A-B	LPCS AD 2.24.12-3
VISUAL APPROACH CHART ICAO	LPCS AD 2.24.13-1

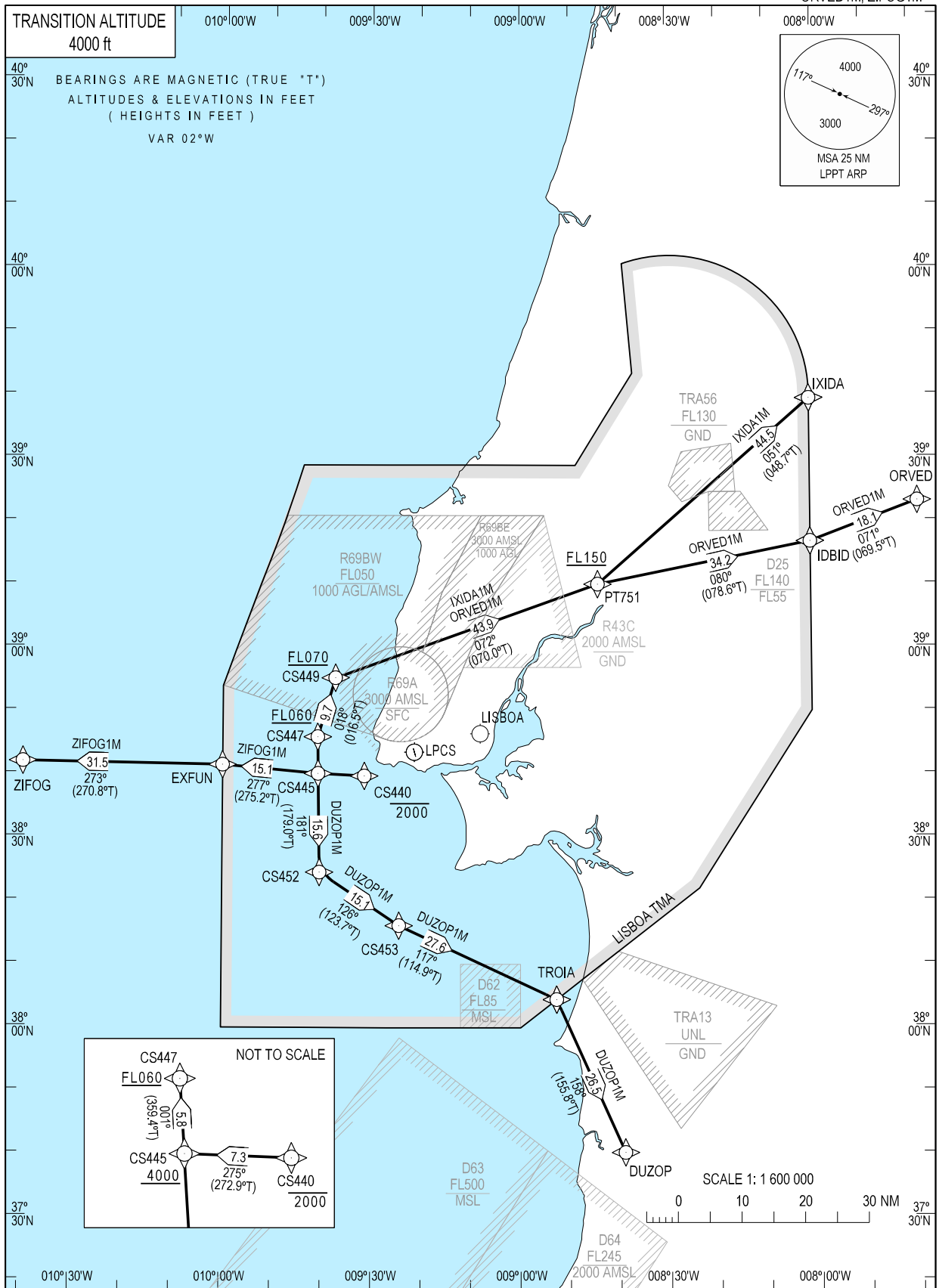
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STANDARD DEPARTURE CHART -  
INSTRUMENT (SID) - ICAO

CASCAIS TOWER 120.305  
LISBOA APPROACH 119.105

CASCAIS (LPCS)  
RNAV Rwy 17  
DUZOP1M, IXIDA1M  
ORVED1M, ZIFOG1M



CASCAIS SID RNAV1 DUZOP1M (RWY 17)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA	-	-	-	166 (164.1)	-	-	@800 ft		RNAV 1	After departure climb FL060.
DF	CS440	N	383945.06N 0093125.08W	-	-	Right	-2000 ft		RNAV 1	
TF	CS445	N	384007.17N 0094044.45W	275 (273.0)	7.3112	-	+4000 ft		RNAV 1	
TF	CS452	N	382430.91N 0094024.29W	181 (179.0)	15.5905	-			RNAV 1	
TF	CS453	N	381605.56N 0092423.62W	126 (123.7)	15.1487	-			RNAV 1	
TF	TROIA	N	380423.71N 0085244.95W	117 (114.9)	27.5548	-			RNAV 1	
TF	DUZOP	N	374011.24N 0083905.64W	158 (155.8)	26.4876	-			RNAV 1	

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
DUZOP1M	After departure climb straight ahead. Crossing 800 ft ALT, turn right to CS440 - CS445 - CS452 - CS453 - TROIA - DUZOP	FL060	-	-

CASCAIS SID RNAV1 IXIDA1M (RWY 17)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA	-	-	-	166 (164.1)	-	-	@800 ft	-	RNAV 1	After departure climb FL060. If unable to comply with Level Constraints advise ATC.
DF	CS440	N	383945.06N 0093125.08W	-	-	Right	-2000 ft	-	RNAV 1	
TF	CS445	N	384007.17N 0094044.45W	275 (272.9)	7.3112	-	+4000 ft	-	RNAV 1	
TF	CS447	N	384555.57N 0094049.14W	001 (359.4)	5.8012	-	+FL060	-	RNAV 1	
TF	CS449	N	385515.62N 0093716.71W	018 (016.5)	9.7268	-	+FL070	-	RNAV 1	
TF	PT751	N	391003.24N 0084414.26W	072 (070.0)	43.8868	-	+FL150	-	RNAV 1	
TF	IXIDA	N	393918.46N 0080100.00W	051 (048.7)	44.4663	-	-	-	RNAV 1	

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
IXIDA1M	After departure climb straight ahead. Crossing 800 ft ALT, turn right to CS440 - CS445 - CS447 - CS449 - PT751 - IXIDA	FL060	-	If unable to comply with Level Constraints advise ATC.

CASCAIS SID RNAV1 ORVED1M (RWY 17)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA	-	-	-	166 (164.1)	-	-	@800 ft	-	RNAV 1	After departure climb FL060. If unable to comply with Level Constraints advise ATC.
DF	CS440	N	383945.06N 0093125.08W	-	-	Right	-2000 ft	-	RNAV 1	
TF	CS445	N	384007.17N 0094044.45W	275 (272.9)	7.3112	-	+4000 ft	-	RNAV 1	
TF	CS447	N	384555.57N 0094049.14W	001 (359.4)	5.8012	-	+FL060	-	RNAV 1	
TF	CS449	N	385515.62N 0093716.71W	018 (016.5)	9.7268	-	+FL070	-	RNAV 1	
TF	PT751	N	391003.24N 0084414.26W	072 (070.0)	43.8868	-	+FL150	-	RNAV 1	
TF	IDBID	N	391641.60N 0080100.00W	080 (078.6)	34.2495	-	-	-	RNAV 1	
TF	ORVED	N	392300.00N 0073907.00W	071 (069.5)	18.1114	-	-	-	RNAV 1	

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
ORVED1M	After departure climb straight ahead. Crossing 800FT ALT, turn right to CS440 - CS445 - CS447 - CS449 - PT751 - IDBID - ORVED	FL060	-	After departure climb FL060. If unable to comply with Level Constraints advise ATC.

CASCAIS SID RNAV1 ZIFOG1M (RWY 17)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CA	-	-	-	166 (164.1)	-	-	@800 ft	-	RNAV 1	After departure climb FL060.
DF	CS440	N	383945.06N 0093125.08W	-	-	Right	-2000 ft	-	RNAV 1	
TF	CS445	N	384007.17N 0094044.45W	275 (272.9)	7.3112	-	+4000 ft	-	RNAV 1	
TF	EXFUN	N	384128.05N 0095959.96W	277 (275.2)	15.1409	-	-	-	RNAV 1	
TF	ZIFOG	N	384147.25N 0104015.58W	273 (270.8)	31.5223	-	-	-	RNAV 1	

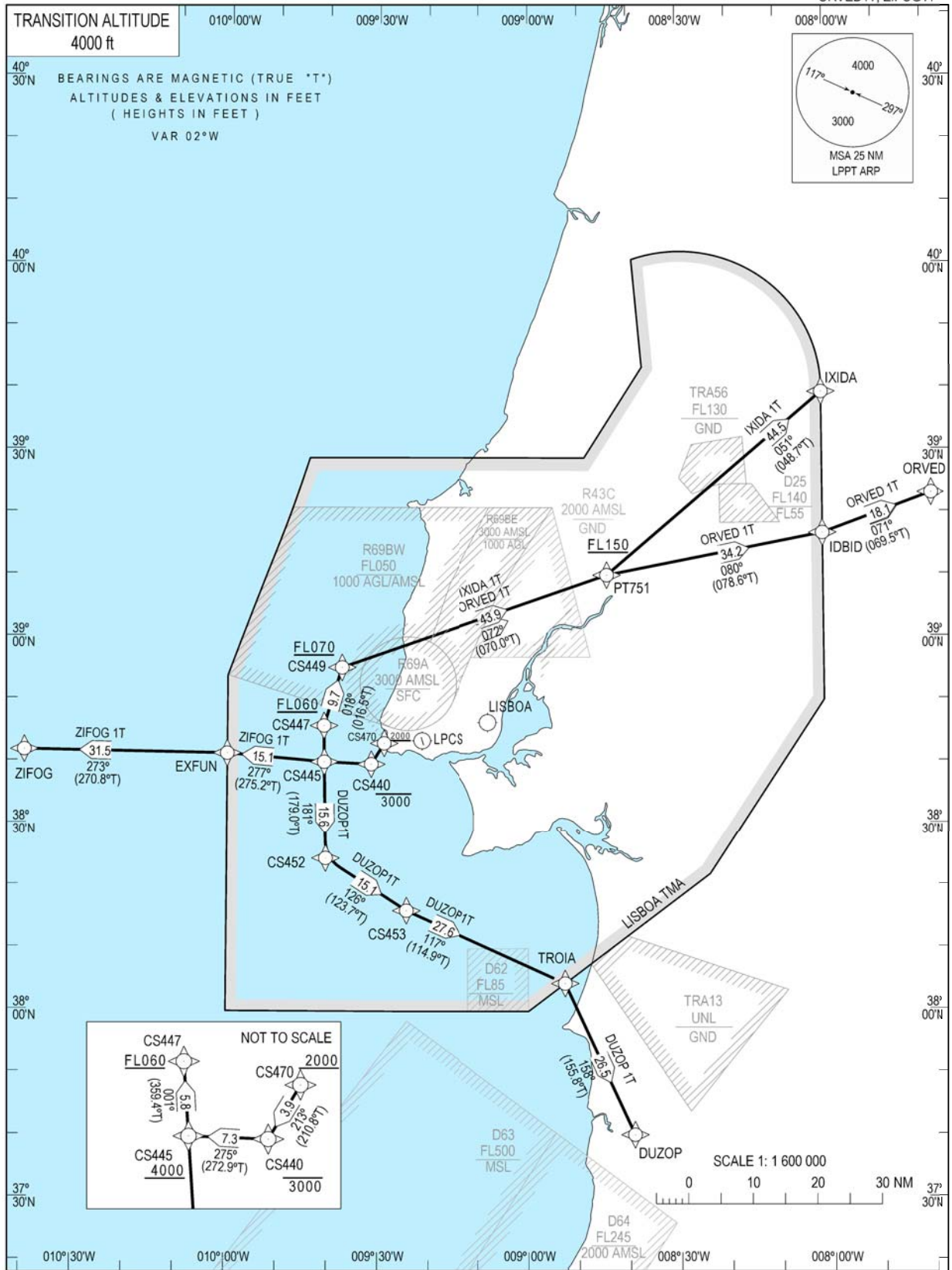
Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
ZIFOG1M	After departure climb straight ahead. Crossing 800FT ALT, turn right to CS440, then CS445 - EXFUN - ZIFOG	FL060	-	After departure climb FL060.

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STANDARD DEPARTURE CHART -  
INSTRUMENT (SID) - ICAO

CASCAIS TOWER 120.305  
LISBOA APPROACH 119.105

CASCAIS (LPCS)  
RNAV RWY 35  
DUZOP1T, IXIDA1T  
ORVED1T, ZIFOG1T



Track changed

CASCAIS SID RNAV1 DUZOP1T (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	CS470 (IDF)	N	384306.36N	-	-	Left	+2000 ft	-	RNAV 1	Immediate left turn after departure to avoid military area LPR69A. Visual departure RWY 35. Maintain own terrain clearance until CS470 (IDF). If unable to comply with Level Constraints advise ATC.
			0092852.04W							
TF	CS440	N	383945.06N	213	3.9016	-	-3000 ft	-	RNAV 1	
			0093125.08W	(210.8)						
TF	CS445	N	384007.17N	275	7.3112	-	+4000 ft	-	RNAV 1	
			0094044.45W	(272.9)						
TF	CS452	N	382430.91N	181	15.5905	-	-	-	RNAV 1	
			0094024.29W	(179.0)						
TF	CS453	N	381605.56N	126	15.1487	-	-	-	RNAV 1	
			0092423.62W	(123.7)						
TF	TROIA	N	380423.71N	117	27.5548	-	-	-	RNAV 1	
			0085244.95W	(114.9)						
TF	DUZOP	N	374011.24N	158	26.4876	-	-	-	RNAV 1	
			0083905.64W	(155.8)						

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
DUZOP1T	After departure turn left as soon as possible to CS470 (IDF), then proceed to CS440 - CS445 - CS452 - CS453 - TROIA - DUZOP	FL060	-	Immediate left turn after departure to avoid military area LPR69A. Visual departure RWY 35. Maintain own terrain clearance until CS470 (IDF). After departure climb FL060. If unable to comply with Level Constraints advise ATC.

CASCAIS SID RNAV1 IXIDA1T (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	CS470 (IDF)	N	384306.36N	-		Left	+2000 ft	-	RNAV 1	Immediate left turn after departure to avoid military area LPR69A. Visual departure RWY 35. Maintain own terrain clearance until CS470 (IDF). After departure climb FL060. If unable to comply with Level Constraints advise ATC.
			0092852.04W							
TF	CS440	N	383945.06N	213	3.9016	-	-3000 ft	-	RNAV 1	
			0093125.08W	(210.8)						
TF	CS445	N	384007.17N	275	7.3112	-	+4000 ft	-	RNAV 1	
			0094044.45W	(272.9)						
TF	CS447	N	384555.57N	001	5.8012	-	+FL060	-	RNAV 1	
			0094049.14W	(359.4)						
TF	CS449	N	38515.62N	018	9.7268	-	+FL070	-	RNAV 1	
			0093716.71W	(016.5)						
TF	PT751	N	391003.24N	072	43.8868	-	+FL150	-	RNAV 1	
			0084414.26W	(070.0)						
TF	IXIDA	N	393918.46N	051	44.4663	-	-	-	RNAV 1	
			0080100.00W	(048.7)						

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
IXIDA1T	After departure turn left as soon as possible to CS470 (IDF), then proceed to CS440 - CS445 - CS447 - CS449 - PT751 - IXIDA	FL060	-	Immediate left turn after departure to avoid military area LPR69A. Visual departure RWY 35. Maintain own terrain clearance until CS470 (IDF). If unable to comply with Level Constraints advise ATC.

CASCAIS SID RNAV1 ORVED1T (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	CS470 (IDF)	N	384306.36N	-		Left	+2000 ft	-	RNAV 1	Immediate left turn after departure to avoid military area LPR69A. Visual departure RWY 35. Maintain own terrain clearance until CS470 (IDF). After departure climb FL060. If unable to comply with Level Constraints advise ATC.
			0092852.04W							
TF	CS440	N	383945.06N	213	3.9016	-	-3000 ft	-	RNAV 1	
			0093125.08W	(210.8)						
TF	CS445	N	384007.17N	275	7.3112	-	+4000 ft	-	RNAV 1	
			0094044.45W	(272.9)						
TF	CS447	N	384555.57N	001	5.8012	-	+FL060	-	RNAV 1	
			0094049.14W	(359.4)						
TF	CS449	N	385515.62N	018	9.7268	-	+FL070	-	RNAV 1	
			0093716.71W	(016.5)						
TF	PT751	N	391003.24N	072	43.8868	-	+FL150	-	RNAV 1	
			0084414.26W	(070.0)						
TF	IDBID	N	391641.60N	080	34.2495	-	-	-	RNAV 1	
			0080100.00W	(078.6)						
TF	ORVED	N	392300.00N	071	18.1114	-	-	-	RNAV 1	
			0073907.00W	(069.5)						

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
ORVED1T	After departure turn left as soon as possible to CS470 (IDF), then proceed to CS440 - CS445 - CS447 - CS449 - PT751 - IDBID - ORVED	FL060	-	Immediate left turn after departure to avoid military area LPR69A. Visual departure RWY 35. Maintain own terrain clearance until CS470 (IDF). If unable to comply with Level Constraints advise ATC.

CASCAIS SID RNAV1 ZIFOG1T (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	CS470 (IDF)	N	384306.36N	-	-	Left	+2000 ft	-	RNAV 1	Immediate left turn after departure to avoid military area LPR69A. Visual departure RWY 35. Maintain own terrain clearance until CS470 (IDF). After departure climb FL060. If unable to comply with Level Constraints advise ATC.
			0092852.04W							
TF	CS440	N	383945.06N	213	3.9016	-	-3000 ft	-	RNAV 1	
			0093125.08W	(210.8)						
TF	CS445	N	384007.17N	275	7.3112	-	+4000 ft	-	RNAV 1	
			0094044.45W	(272.9)						
TF	EXFUN	N	384128.05N	277	15.1409	-	-	-	RNAV 1	
			0095959.96W	(275.2)						
TF	ZIFOG	N	384147.25N	273	31.5223	-	-	-	RNAV 1	
			0104015.58W	(270.8)						

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
ZIFOG1T	After departure turn left as soon as possible to CS470 (IDF), then proceed to CS440 - CS445 - EXFUN - ZIFOG	FL060	-	Immediate left turn after departure to avoid military area LPR69A. Visual departure RWY 35. Maintain own terrain clearance until CS470 (IDF). If unable to comply with Level Constraints advise ATC.

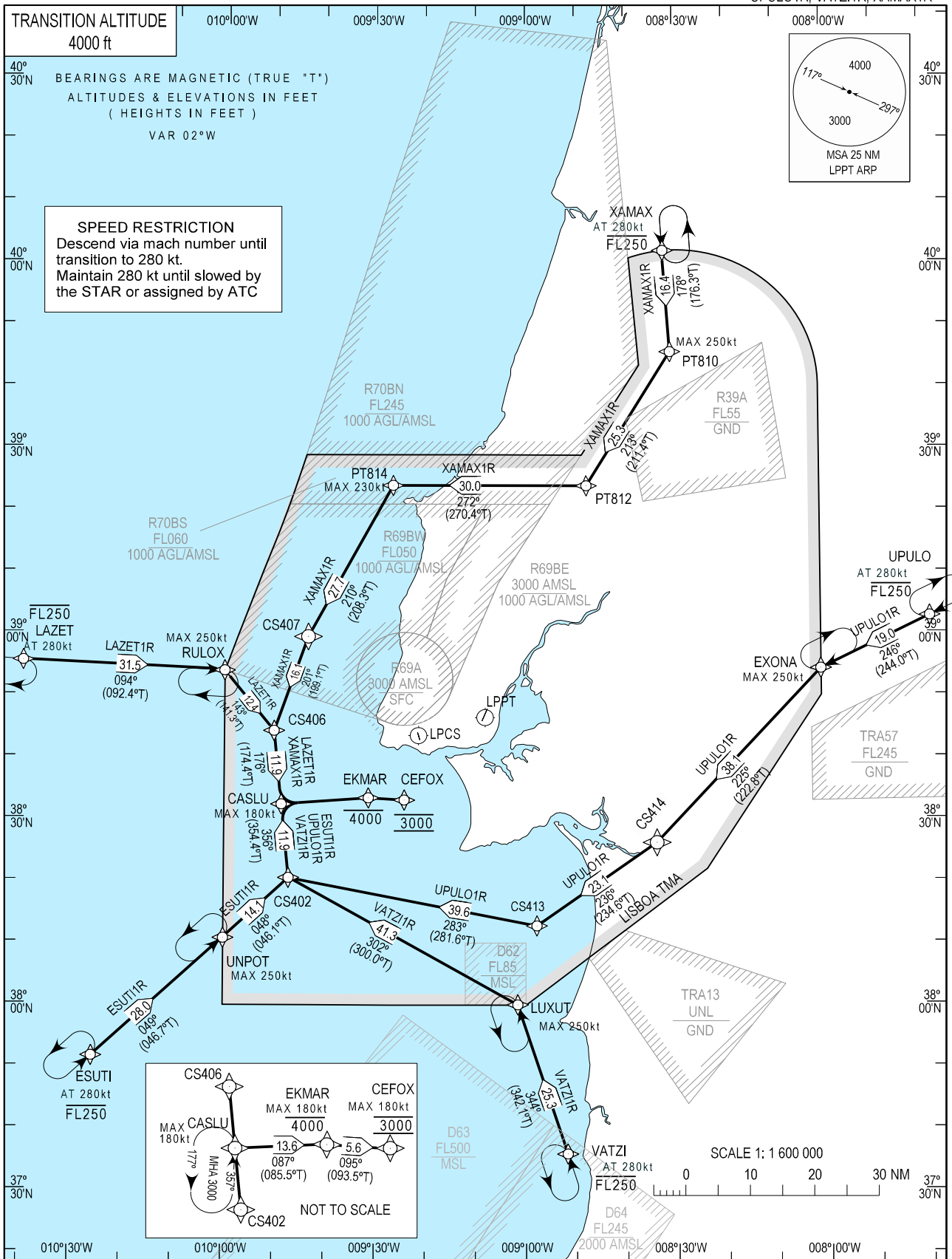
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STANDARD ARRIVAL CHART -  
INSTRUMENT (STAR) - ICAO

LISBOA APPROACH 119.105  
CASCAIS TOWER 120.305

CASCAIS (LPCS)  
RNAV RWY 35  
ESUT1R, LAZET1R  
UPULO1R, VATZI1R, XAMAX1R



CASCAIS STAR RNAV1 ESUT1R (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	ESUTI	N	375135.67N 0102548.77W	-	-	-	-FL250	@280 kt	RNAV 1	Clearance Limit CEFOX
TF	UNPOT	N	381045.63N 0100000.00W	049 (046.7)	27.9747	-	-	250 kt	RNAV 1	
TF	CS402	N	382031.15N 0094707.38W	048 (046.07)	14.0674	-	-	250 kt	RNAV 1	
TF	CASLU	N	383224.05N 0094835.92W	356 (354.4)	11.9259	-	-FL060	180 kt	RNAV 1	
TF	EKMAR	N	383326.56N 0093117.20W	087 (085.5)	13.6211	-	-4000 ft	180 kt	RNAV 1	
TF	CEFOX	N	383305.95N 0092409.73W	095 (093.5)	5.5993	-	@3000 ft	180 kt	RNAV 1	

CASCAIS STAR RNAV1 LAZET1R (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	LAZET	N	385526.20N 0104015.64W	-	-	-	- FL250	@280 kt	RNAV 1	Clearance Limit CEFOX
TF	RULOX	N	385400.00N 0100000.00W	094 (092.4)	31.4577	-	-	250 kt	RNAV 1	
TF	CS406	N	384416.90N 0095005.02W	143 (141.3)	12.4229	-	-	250 kt	RNAV 1	
TF	CASLU	N	383224.05N 0094835.92W	176 (174.4)	11.9258	-	-FL060	180 kt	RNAV 1	
TF	EKMAR	N	383326.56N 0093117.20W	087 (085.5)	13.6211	-	-4000 ft	180 kt	RNAV 1	
TF	CEFOX	N	383305.95N 0092409.73W	095 (093.5)	5.5993	-	@3000 ft	180 kt	RNAV 1	

CASCAIS STAR RNAV1 UPULO1R (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	UPULO	N	390237.57N 0073907.04W	-	-	-	- FL250	@280 kt	RNAV 1	Clearance Limit CEFOX
TF	EXONA	N	385415.89N 0080100.00W	246 (244.0)	19.0002	-	-	250 kt	RNAV 1	
TF	CS414	N	382611.52N 0083355.47W	225 (222.8)	38.0973	-	-	250 kt	RNAV 1	
TF	CS413	N	381244.80N 0085748.55W	236 (234.6)	23.1013	-	-	250 kt	RNAV 1	
TF	CS402	N	382031.15N 0094707.38W	283 (281.6)	39.6004	-	-	250 kt	RNAV 1	
TF	CASLU	N	383224.05N 0094835.92W	356 (354.4)	11.9259	-	- FL060	180 kt	RNAV 1	
TF	EKMAR	N	383326.56N 0093117.20W	087 (085.5)	13.6211	-	- 4000 ft	180 kt	RNAV 1	
TF	CEFOX	N	383305.95N 0092409.73W	095 (093.5)	5.5993	-	@3000 ft	180 kt	RNAV 1	

CASCAIS STAR RNAV1 VATZ1R (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	VATZI	N	373552.11N 0085147.09W	-	-	-	- FL250	@280 kt	RNAV 1	Clearance Limit CEFOX Pending on military activity.
TF	LUXUT	N	375959.27N 0090136.98W	344 (342.1)	25.3206	-	-	250 kt	RNAV 1	
TF	CS402	N	382031.15N 0094707.38W	302 (300.0)	41.3330	-	-	250 kt	RNAV 1	
TF	CASLU	N	383224.05N 0094835.92W	356 (354.4)	11.9259	-	- FL060	180 kt	RNAV 1	
TF	EKMAR	N	383326.56N 0093117.20W	087 (085.5)	13.6211	-	- 4000 ft	180 kt	RNAV 1	
TF	CEFOX	N	383305.95N 0092409.73W	095 (093.5)	5.5993	-	@3000 ft	180 kt	RNAV 1	

**AD 2 AERODROMES****LPFR AD 2****LPFR AD 2.1 AERODROME LOCATION INDICATOR AND NAME**

LPFR - FARO / Gago Coutinho

**LPFR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site	LAT: 370052N LONG: 0075757W Intersection RWY with TWY C1
2	Direction and distance of ARP from city or town	4 KM (2.16NM) BRG 262° from Alto de Faro
3	Elevation/Reference temperature	7M / 24FT 26°C (AUG)
4	Geoid undulation at aerodrome elevation position	52M
5	MAG VAR/Annual change	01°W (2020) / 0.16° decreasing
6	AD Administration, address, telephone, telefax, telex, AFS, E-mail and Web	Post: ANA Aeroportos de Portugal, SA Aeroporto de Faro Apartado 2054 8001-701 FARO Phone: +351 289800800 Fax: +351 289818802 AFS: LPFRYDYA SITA: FAOKAXH Email: faro.airport@ana.pt URL: http://www.ana.pt
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	NIL

**LPFR AD 2.3 OPERATIONAL HOURS**

1	AD Administration	06:00-24:00 (05:00-23:00)*
2	Customs and immigration	H24
3	Health and sanitation	On request
4	AIS Briefing Office	H24**
5	ATS Reporting Office (ARO)	H24***
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	08:00-24:00 (07:00-23:00). Other times on request with surcharge
9	Handling	06:00-24:00 (05:00-23:00). Other times on request
10	Security	H24
11	De-icing	NIL

12	Remarks	<p>* Aerodrome OPS HR extension will be considered until 01:00 (00:00) of the next day, if requested until 23:30 (22:30), regarding force majeure cases specified in AD 1.1.6, through Airport Duty Manager Phone: +351 289800610 Fax: +351 289818440 Email: lpfraro@nav.pt SITA: FAOKAXH</p> <p>** Through Faro or Portugal AIS Briefing Office Phone:+351 289894176 (recorded) Phone:+351 289894175 (recorded) Phone:+351 218553341/38 (recorded) Email: lpfraro@nav.pt or lppparo@nav.pt URL:https://fplbriefing.nav.pt</p> <p>*** Through Faro or Portugal ATS Reporting Office (ARO) Phone:+351 289894176 (recorded) Phone:+351 289894175 (recorded) Phone:+351 21 8553341/38 (recorded) Email: lpfraro@nav.pt or lppparo@nav.pt URL:https://fplbriefing.nav.pt</p>
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**LPFR AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo handling facilities:	High lift loader, conveyor belts, fork lifts. Sufficient number of various vehicles and equipment.
2	Fuel/oil types	JET A1 / MOBIL JET OIL II, BP TURBO OIL 2380 and EXXON HYJET V (Hydraulic)
3	Fuelling facilities/capacity	Hydrant System (JET A1) JET A1 - Total capacity 3.200.000 litres. Maximum delivery rate: 75 litres per second. Defuelling not available.
4	De-icing facilities	NIL
5	Hangar space available for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	By arrangement with Louro- Aircraft Maintenance (J.A.R. - 145) Phone: +351 289800825 and Mobile +351 962735578 FAX: +351 289800825 Email: las.faro@las.pt TAP Faro Maintenance Phone: +351 289800737 and mobile +351 927052561 Fax: +351 289818241 Email: manfao.me@tap.pt
7	Remarks	Oxygen and related servicing – None More information concerning Handling Services on AD 2.23

**LPFR AD 2.5 PASSENGER FACILITIES**

1	Hotels	In City
2	Restaurants	AD restaurant 300 meals per hour
3	Transportation	Buses 05:25-00:10 (04:25-23:10), Taxis and Rent-a-Car
4	Medical facilities	First aid treatment daily from 06:00-24:00 (05:00-23:00), 1 ambulance. Medical emergency services available on request. Hospital in city 6 KM (3.24NM)

5	Bank and Post Office	NIL
6	Tourist Office	Yes
7	Remarks	NIL

**LPFR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	CAT 8
2	Rescue equipment	In accordance with Table 5.2 of ICAO DOC. 9137 - AN/898 PART I.
3	Capability for removal of disabled aircraft	All aircraft up to maximum weight of 150 tons with gear down and operational
4	Remarks	Hours of OPS/Service: 05:30-24:00 (04:30-23:00). Assured in case of aerodrome OPS HR extension. CAT 9 will be granted based on approved slots with CAT 9 aircraft or if requested by an airline to Apron Management Service, at least 72 hours prior to operation. Request for higher RFF service category shall be sent using one of the following channels: SITA: FAOKAXH Email: faoairportsup@ana.pt Fax: +351 289818440 For RFFS issues contact: Phone: +351 289800634 and Mobile +351 961770101 Email: fao.arff.sup@ana.pt

**LPFR AD 2.7 RUNWAY SURFACE CONDITION ASSESSEMENT AND REPORTING AND SNOW PLAN**

1	Type(s) of clearing equipment	NIL
2	Clearance priorities	NIL
3	Use of material for movement area surface treatment	NIL
4	Specially prepared winter runways	NIL
5	Remarks	For further information, see also Section AD 1.2.2. - RUNWAY SURFACE CONDITIONS ASSESSEMENT AND REPORTING AND SNOW PLAN.

LPFR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

		APRON	SURFACE	STRENGTH	REMARKS
1	Apron Surface and Strength	NW	CONC	PCN 85/R/B/W/T	Stands: 202, 204, 206, 208, 210, 212
		SW	CONC	PCN 85/R/B/W/T	Stands: 201, 203, 205, 207, 209, 211, 213
		N	CONC	PCN 85/R/B/W/T	Stands: 314, 316, 318, 320, 322, 324
		S	CONC	PCN 59/R/B/W/T	Stands: 321, 323, 325
		NE	CONC	PCN 72/R/B/W/T	Stands: 432, 434, 436, 442, 444, 446, 452, 454, 456, 462, 464, 466
		SE	CONC	PCN 72/R/B/W/T	Stands: 451, 453, 455, 461, 463, 465, 471, 473, 475
		M	CONC	PCN 46/R/B/W/T	Stand: 500
2	Taxiway width, surface and strength	TAXIWAY	WIDTH	SURFACE	STRENGTH
		A	23M	ASPH	PCN 90/F/A/W/T
		B	23M	ASPH	PCN 90/F/A/W/T
		C1	23M	ASPH	PCN 90/F/A/W/T
		C2	23M	ASPH	PCN 90/F/A/W/T
		D	26M	ASPH	PCN 79/F/A/W/T
		E	23M	ASPH	PCN 65/F/A/W/T
		F	23M	ASPH	PCN 90/F/A/W/T
		P	23M	ASPH	PCN 90/F/A/W/T
		RD	25M	ASPH	PCN 65/F/A/W/T
RG	25M	ASPH	PCN 79/F/A/W/T		
3	Altimeter Checkpoint location and elevation	See Aircraft Parking/Docking Chart			
4	VOR Checkpoint locations	Not established			
5	INS Checkpoint positions	See Aircraft Parking/Docking Chart			
6	Remarks	NIL			

VHF Frequency: 131.875 MHZ Call sign "Portway Faro"

Suppliers of Ground Handling Services for General Aviation (GA) / Business Aviation (BA) (AIRCRAFT up to 10 tons or 20 available seats):

**ELITESKY**

Phone: +351 939495360 (mobile)

Email: fao@elitesky.pt

Email: rodrigo.cintra@elitesky.pt

VHF Frequency: Not Available

**OMNI**

Phone: +351 914641743 (mobile)

Fax: + 351 289800788

Email: fao@omnihandling.com

VHF Frequency: 123.755 MHZ

**SAFEPORT**

Phone: + 351 289150200

Phone: +351 910285371 (mobile)

Email: faro@safeport.aero

VHF Frequency: 123.025 MHZ

**SKY VALET**

Phone: +351 910996234 (mobile)

Fax: + 351 289094867

Email: lpfr@jetbase.biz

AFS: KLISJBFX

VHF Frequency: Not Available

Suppliers of Ground Administration and Supervision:

**GROUNDLINK**

Phone: + 351 911502373 (mobile)

Email: faohandling@groundlink.eu

Email: office@groundlink.eu

PTS - PORTUGAL TOURIST SERVICES

Phone: +351 914395999 (mobile)

Fax: +351 289818381

SITA: FAOUGCR

Email: ptsfaro@mail.telepac.pt

VHF Frequency: Not Available

Self - Handling:

**RYANAIR**

Phone: +351 968867017 (mobile)

Phone: +351 289247025

SITA: FAOGLXH

Email: faoops@groundlink.eu

VHF Frequency: 131.410 MHZ Call sign "Ryanair Faro Operations"

**LPFR AD 2.24 CHARTS RELATED TO AN AERODROME**

Name	Page
AERODROME CHART- ICAO	LPFR AD 2.24.01-1

Name	Page
AIRCRAFT PARKING/DOCKING CHART-ICAO	LPFR AD 2.24.02-1
AERODROME OBSTACLE CHART-ICAO Type A (RWY 10-28)	LPFR AD 2.24.04-1
PRECISION APPROACH TERRAIN CHART-ICAO (RWY 28)	LPFR AD 2.24.06-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) – ICAO (RWY 10 AMSEL7E BAROK7E NARTA7E ODEMI7E ORTOP7E XAPAS9E XAPAS7L)	LPFR AD 2.24.08-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) – ICAO (RWY 28 AMSEL7U BAROK7U NARTA7U ODEMI9U ODEMI2S ORTOP7U XAPAS9U XAPAS7V)	LPFR AD 2.24.08-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) – ICAO (RNAV RWY 10 ALAGU3F GIMAL3F NIRAK3F ODEMI3F ODEMI3G OSLAD3F)	LPFR AD 2.24.08-5
STANDARD DEPARTURE CHART - INSTRUMENT (SID) – ICAO (RNAV RWY 28 EVURA1V IXOLI1V ODEMI1V OSLAD1V SOTEX1V TUPIX1V)	LPFR AD 2.24.08-7
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) – ICAO (RNAV RWY 10 GIMAL7C IXOLI7C SOTEX7C USALU8C TUPIX7C)	LPFR AD 2.24.10-1
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) – ICAO (RNAV RWY 28 ALAGU7A NIRAK7A MARIM7A ODEMI9A ODEMI7B GENRO8A GIMAL7A)	LPFR AD 2.24.10-3
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) – (RNAV CDO RWY 10 SOTEX5K)	LPFR AD 2.24.10-7
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) – (RNAV CDO RWY 28 ODEMI5K)	LPFR AD 2.24.10-9
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) – (RNAV CDO RWY 28 ALAGU5K)	LPFR AD 2.24.10-11
ATC SURVEILLANCE MINIMUM ALTITUDE CHART-ICAO	LPFR AD 2.24.11-1
INSTRUMENT APPROACH CHART-ICAO – DVOR Z RWY 10	LPFR AD 2.24.12-1
INSTRUMENT APPROACH CHART-ICAO – DVOR Y RWY 10 CAT A-B	LPFR AD 2.24.12-3
INSTRUMENT APPROACH CHART-ICAO – DVOR Y RWY 10 CAT C-D	LPFR AD 2.24.12-5
INSTRUMENT APPROACH CHART-ICAO – DVOR Z RWY 28	LPFR AD 2.24.12-7
INSTRUMENT APPROACH CHART-ICAO – DVOR Y RWY 28 CAT A-B	LPFR AD 2.24.12-9
INSTRUMENT APPROACH CHART-ICAO – DVOR Y RWY 28 CAT C-D	LPFR AD 2.24.12-11
INSTRUMENT APPROACH CHART-ICAO – ILS OR LOC-Z RWY 10	LPFR AD 2.24.12-13
INSTRUMENT APPROACH CHART-ICAO – ILS OR LOC-Y RWY 10	LPFR AD 2.24.12-15
INSTRUMENT APPROACH CHART-ICAO – ILS OR LOC-Z RWY 28	LPFR AD 2.24.12-17
INSTRUMENT APPROACH CHART-ICAO – ILS OR LOC-Y RWY 28	LPFR AD 2.24.12-19
INSTRUMENT APPROACH CHART-ICAO – RNP RWY10	LPFR AD 2.24.12-21
VISUAL APPROACH CHART-ICAO	LPFR AD 2.24.13-1

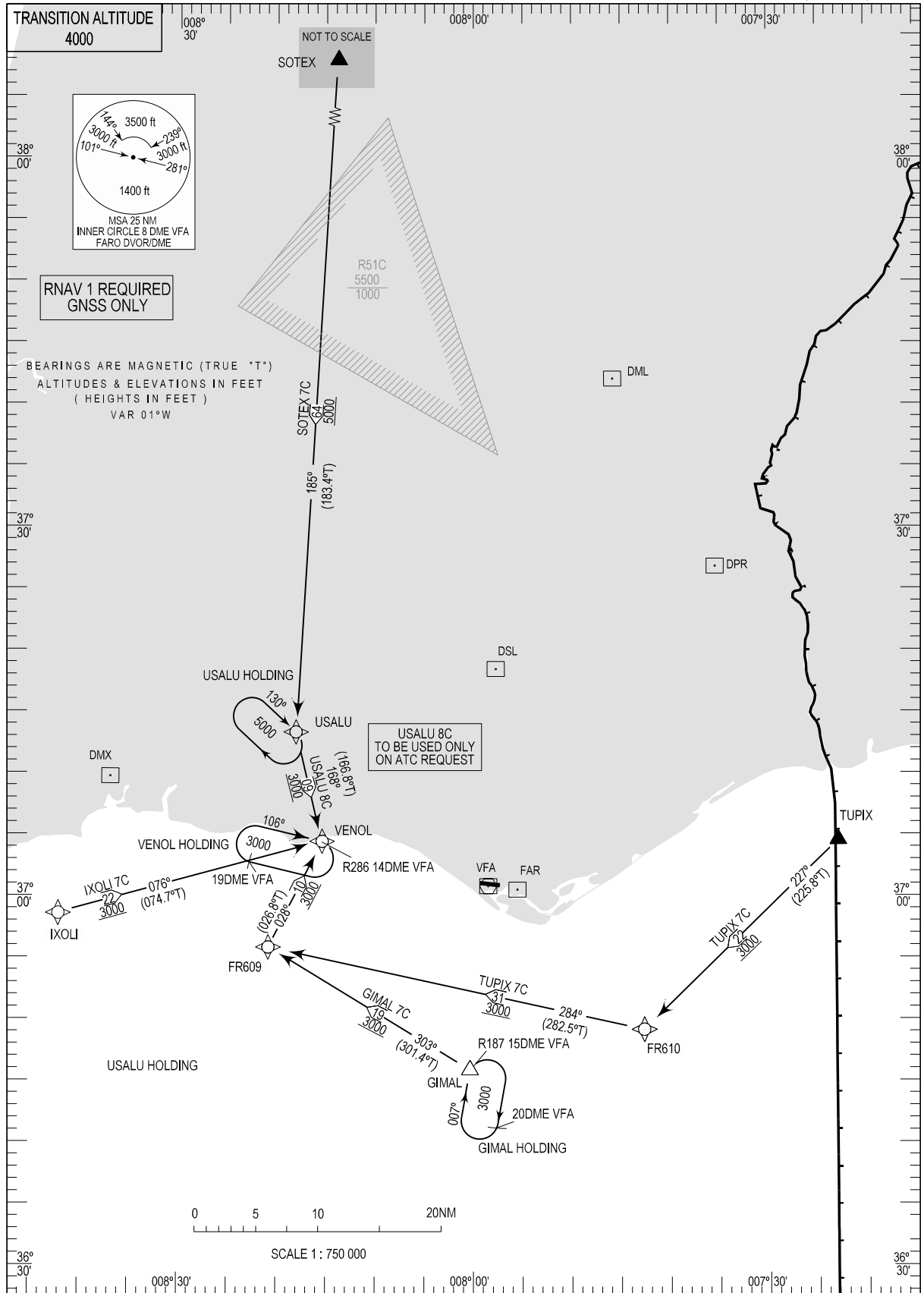


STANDARD ARRIVAL CHART -  
INSTRUMENT (STAR) - ICAO

FARO ARR INFORMATION 124.205  
FARO APPROACH 119.405  
FARO TOWER 120.755

FARO, Gago Coutinho (LPFR)  
RNAV RWY 10

GIMAL 7C, IXOLI 7C  
SOTEX 7C, USALU 8C, TUPIX 7C



FARO STAR RNAV 1 GIMAL 7C (RWY 10)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	GIMAL	-	364552.01N	-	-	-	+3000 ft	-	RNAV1	Clearance limit VENOL (IAF).
			0080021.09W							
TF	FR609	-	365551.26N	303	19.21	-	+3000 ft	-	RNAV1	
			0082048.08W	(301.4)						
TF	VENOL	-	370423.82N	028	9.56	Right	+3000 ft	-	RNAV1	
			0081524.36W	(026.8)						

FARO STAR RNAV 1 IXOLI 7C (RWY 10)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	IXOLI	-	365835.36N	-	-	-	+3000 ft	-	RNAV1	Clearance limit VENOL (IAF).
			0084206.13W							
TF	VENOL	-	370423.82N	076	22.15	-	+3000 ft	-	RNAV1	
			0081524.36W	(074.7)						

FARO STAR RNAV 1 SOTEX 7C (RWY 10)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	SOTEX	-	381733.76N	-	-	-	+5000 ft	-	RNAV1	Clearance limit VENOL (IAF).
			0081311.58W							
TF	USALU	-	371319.60N	185	64.28	-	+5000 ft	-	RNAV1	
			0081801.25W	(183.4)						
TF	VENOL	-	370423.82N	168	09.16	Left	+3000 ft	-	RNAV1	
			0081524.36W	(166.8)						

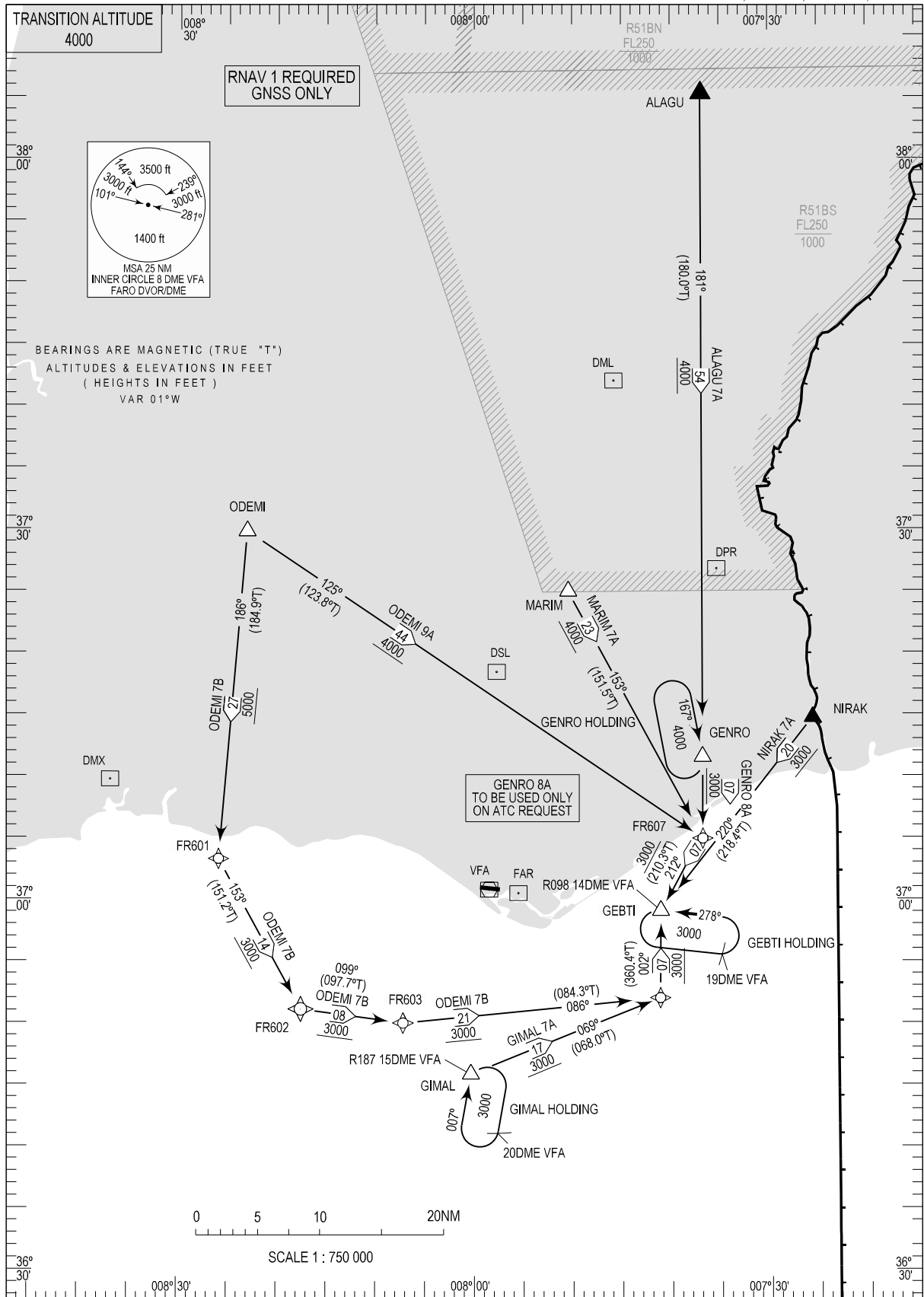
FARO STAR RNAV 1 TUPIX 7C (RWY 10)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	TUPIX	-	370434.00N	-	-	-	+3000 ft	-	RNAV1	Clearance limit VENOL (IAF).
			0072300.00W							
TF	FR610	-	364909.82N	227	22.04	-	+3000 ft	-	RNAV1	
			0074241.60W	(225.8)						
TF	FR609	-	365551.26N	284	31.30	Right	+3000 ft	-	RNAV1	
			0082048.08W	(282.5)						
TF	VENOL	-	370423.82N	028	09.56	Right	+3000 ft	-	RNAV1	
			0081524.36W	(026.8)						

FARO STAR RNAV 1 USALU 8C (RWY 10)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	USALU	-	371319.60N	-	-	-	+5000 ft	-	RNAV 1	Clearance limit VENOL (IAF). TO BE USED ONLY ON ATC REQUEST.
			0081801.25W							
TF	VENOL	-	370423.82N	168	9.16	-	+3000 ft	-	RNAV 1	
			0081524.36W	(166.8)						

STANDARD ARRIVAL CHART -  
INSTRUMENT (STAR) - ICAO

FARO ARR INFORMATION 124.205 FARO, Gago Coutinho (LPFR)  
FARO APPROACH 119.405  
FARO TOWER 120.755  
RNAV RWY 28

ALAGU 7A, NIRAK 7A, MARIM 7A  
ODEMI 9A, ODEMI 7B, GENRO 8A, GIMAL 7A



FARO STAR RNAV 1 ALAGU 7A (RWY 28)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	ALAGU	-	380519.34N	-	-	-	+4000 ft	-	RNAV 1	Clearance limit: GEBTI (IAF).
			0073652.27W							
TF	GENRO	-	371134.51N	181	53.7	-	+4000 ft	-	RNAV 1	
			0073653.27W	(180.0)						
TF	FR607	-	370457.31N	181	6.6	-	+3000 ft	-	RNAV 1	
			0073653.37W	(180.0)						
TF	GEBTI	-	365905.99N	212	6.8	RIGHT	+3000 ft	-	RNAV 1	
			0074109.25W	(210.3)						

FARO STAR RNAV 1 GENRO 8A (RWY 28)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	GENRO	-	371134.51N	-	-	-	+4000 ft	-	RNAV 1	Clearance limit: GEBTI (IAF). TO BE USED ONLY ON ATC REQUEST.
			0073653.27W							
TF	FR607	-	370457.31N	181	6.6	-	+3000 ft	-	RNAV 1	
			0073653.37W	(180.0)						
TF	GEBTI	-	365905.99N	212	6.8	RIGHT	+3000 ft	-	RNAV 1	
			0074109.25W	(210.3)						

FARO STAR RNAV 1 GIMAL 7A (RWY 28)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	GIMAL	-	364552.01N	-	-	-	+3000 ft	-	RNAV 1	Clearance limit: GEBTI (IAF).
			0080021.09W							
TF	FR604	-	365202.37N	069	16.6	-	+3000 ft	-	RNAV 1	
			0074112.61W	(068.0)						
TF	GEBTI	-	365905.99N	002	7.1	-	+3000 ft	-	RNAV 1	
			0074109.25W	(000.4)						

FARO STAR RNAV 1 MARIM 7A (RWY 28)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	MARIM	-	372500.00N	-	-	-	+4000 ft	-	RNAV 1	Clearance limit: GEBTI (IAF).
			0075027.97W							
TF	FR607	-	370457.31N	153	22.8	-	+4000 ft	-	RNAV 1	
			0073653.37W	(151.5)						
TF	GEBTI	-	365905.99N	212	6.8	Right	+3000 ft	-	RNAV 1	
			0074109.25W	(210.3)						

FARO STAR RNAV 1 NIRAK 7A (RWY 28)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	NIRAK	-	371445.00N	-	-	-	+3000 ft	-	RNAV 1	Clearance limit: GEBTI (IAF).
			0072543.00W							
TF	GEBTI	-	365905.99N	220	19.9	-	+3000 ft	-	RNAV 1	
			0074109.25W	(218.4)						

FARO STAR RNAV 1 ODEMI 9A (RWY 28)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	ODEMI	-	372951.02N	-	-	-	+4000 ft	-	RNAV 1	Clearance limit: GEBTI (IAF).
			0082302.44W	-						
TF	FR607	-	370457.31N	125	44.4	-	+4000 ft	-	RNAV 1	
			0073653.37W	(123.8)						
TF	GEBTI	-	365905.99N	212	6.8	Right	+3000 ft	-	RNAV 1	
			0074109.25W	(210.3)						

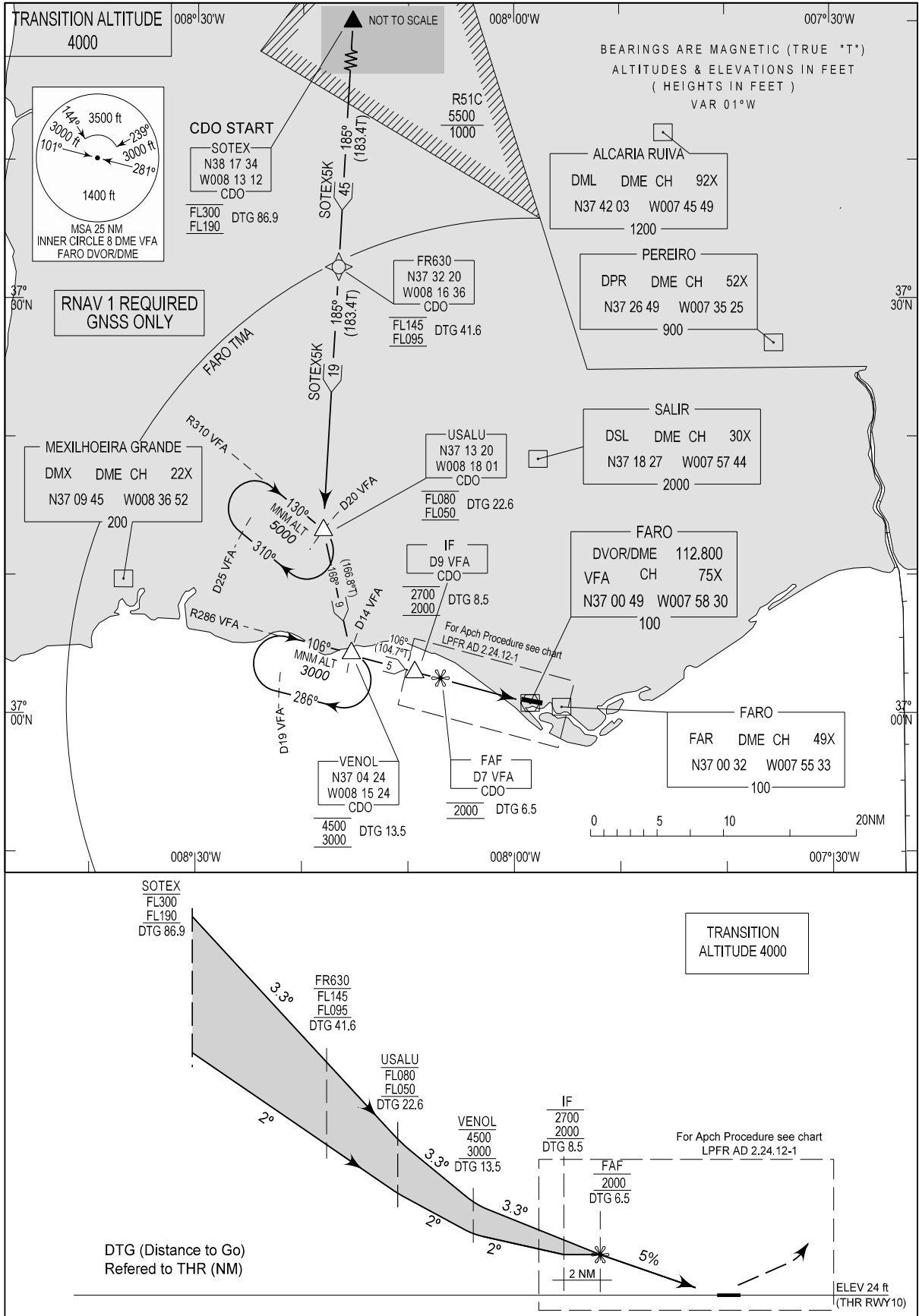
FARO STAR RNAV 1 ODEMI 7B (RWY 28)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	ODEMI	-	372951.02N	-	-	-	+5000 ft	-	RNAV 1	Clearance limit: GEBTI (IAF).
			0082302.44W	-						
TF	FR601	-	370318.42N	186	26.6	-	+5000 ft	-	RNAV 1	
			0082551.86W	(184.9)						
TF	FR602	-	365107.58N	153	13.9	Left	+3000 ft	-	RNAV 1	
			0081732.18W	(151.2)						
TF	FR603	-	365000.01N	099	8.4	Left	+3000 ft	-	RNAV 1	
			0080711.88W	(097.7)						
TF	FR604	-	365202.37N	086	21.0	Left	+3000 ft	-	RNAV 1	
			0074112.61W	(084.3)						
TF	GEBTI	-	365905.99N	002	7.1	Left	+3000 ft	-	RNAV 1	
			0074109.25W	(000.4)						

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STANDARD ARRIVAL CHART - INSTRUMENT (STAR)

FARO INFORMATION 124.205  
FARO APPROACH 119.405  
FARO TOWER 120.755

FARO, Gago Coutinho (LPFR)  
RNAV CDO RWY 10  
SOTEX 5K



Page renumbered.

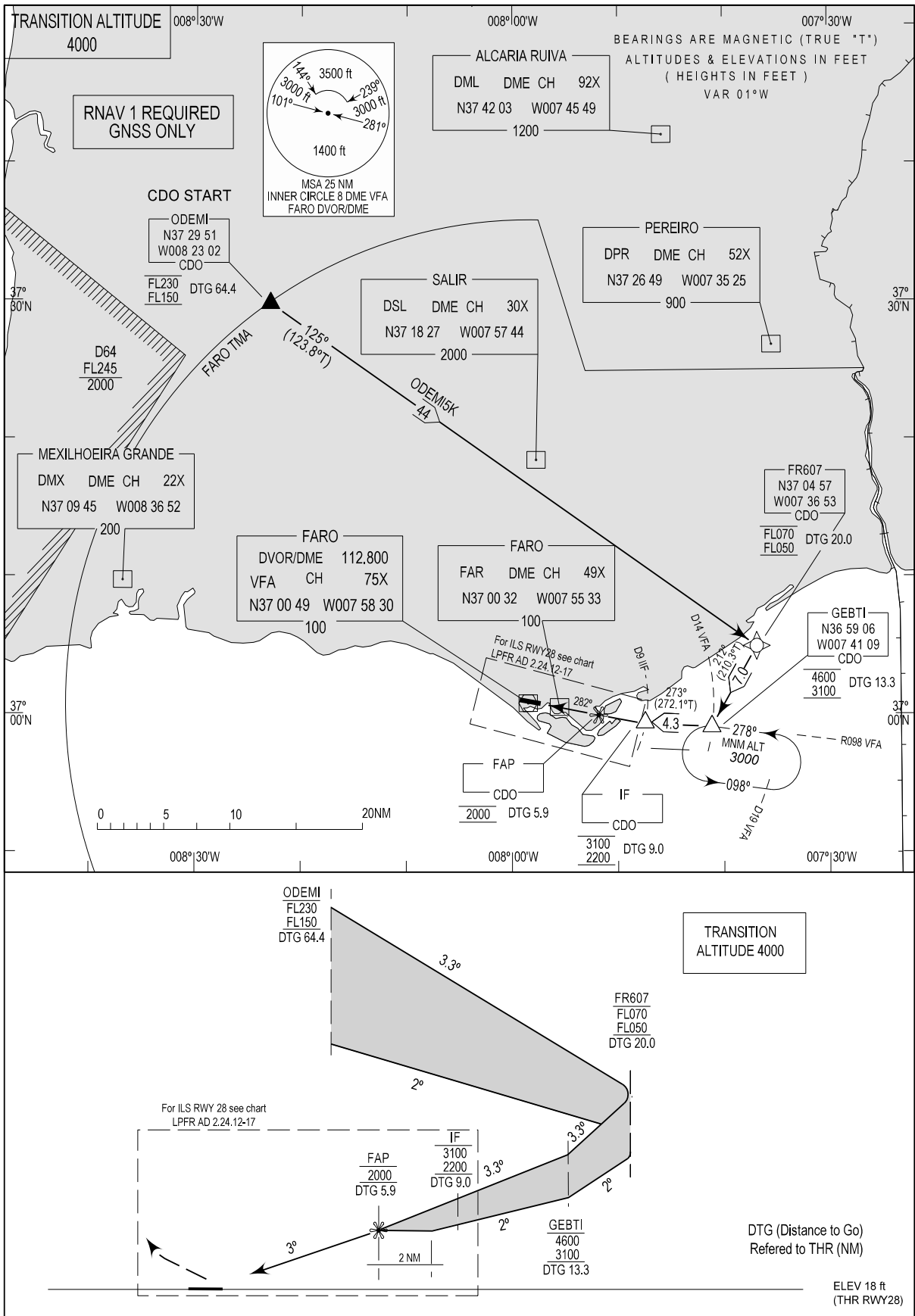
STANDARD INSTRUMENT ARRIVAL (STAR) CDO RUNWAY 10										
RNAV 1 – GNSS ONLY										
STAR RNAV 1 CDO SOTEX 5K RWY10										
Path Terminator	Waypoint			Course/ Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	SOTEX	-	381733.76N 0081311.58W	-	-	-	FL300 FL190	-	RNAV 1	Clearance limit: VENOL. CDO start: SOTEX. (Pending on military traffic conditions).
TF	FR630	-	373219.98N 0081636.49W	185 (183.4)	45,26	-	FL145 FL095	-	RNAV 1	
TF	USALU	-	371319.60N 0081801.25W	185 (183.4)	19,02	-	FL080 FL050	-	RNAV 1	
TF	VENOL	-	370423.82N 0081524.36W	168 (166.8)	9,16	Left	A4500 A3000	-	RNAV 1	



STANDARD ARRIVAL CHART -  
INSTRUMENT (STAR)

FARO ARR INFORMATION 124.205  
FARO APPROACH 119.405  
FARO TOWER 120.755

FARO, Gago Coutinho (LPFR)  
RNAV CDO RWY28  
ODEMI 5K



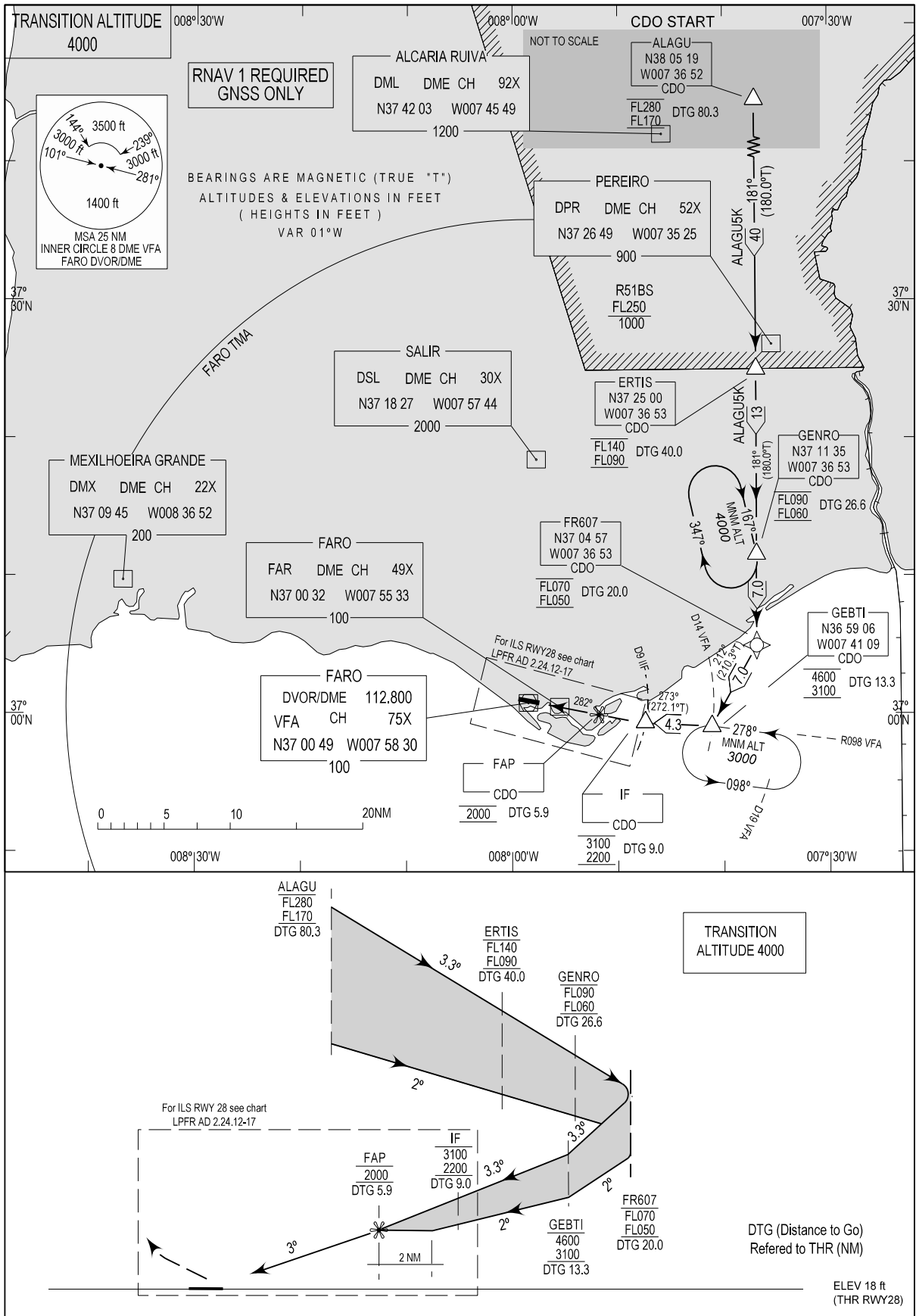
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STANDARD INSTRUMENT ARRIVAL (STAR) CDO RUNWAY 28										
RNAV 1 – GNSS ONLY										
STAR RNAV 1 CDO ODEMI 5K RWY28										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	ODEMI	-	372951.02N 0082302.44W	-	-	-	— FL230 <u>FL150</u>	-	RNAV 1	Clearance limit: GEBTI. CDO start: ODEMI.
TF	FR607	-	370457.31N 0073653.37W	125 (123.8)	44.44	-	— FL070 <u>FL050</u>	-	RNAV 1	
TF	GEBTI	-	365905.99N 0074109.25W	212 (210.3)	6.77	Right	— A4600 <u>A3100</u>	-	RNAV 1	

STANDARD ARRIVAL CHART - INSTRUMENT (STAR)

FARO ARR INFORMATION 124.205  
FARO APPROACH 119.405  
FARO TOWER 120.755

FARO, Gago Coutinho (LPFR)  
RNAV CDO RWY 28  
ALAGU 5K



Page renumbered.

STANDARD INSTRUMENT ARRIVAL (STAR) CDO RUNWAY 28										
RNAV 1 – GNSS ONLY										
STAR RNAV 1 CDO ALAGU 5K RWY28										
Path Terminator	Waypoint			Course/ Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	ALAGU	-	380519.34N 0073652.27W	-	-	-	FL280 FL170	-	RNAV 1	Clearance limit: GEBTI. CDO start: ALAGU (Pending on military traffic conditions).
TF	ERTIS	-	372500.00N 0073653.01W	181 (180.0)	40.28	-	FL140 FL090	-	RNAV 1	
TF	GENRO	-	371134.51N 0073653.27W	181 (180.0)	13.41	-	FL090 FL060	-	RNAV 1	
TF	FR607	-	370457.31N 0073653.37W	181 (180.0)	6.61	-	FL070 FL050	-	RNAV 1	
TF	GEBTI	-	365905.99N 0074109.25W	212 (210.3)	6.77	Right	A4600 A3100	-	RNAV 1	

Scheduled Flights – Form “B” – PPR Request shall be submitted until the 25th of each month for the flights scheduled for the following month. Changes to an issued PPR shall be submitted using Form “B1”.

Flights requiring LPLA as alternate aerodrome – Form “C” – PPR Request shall be submitted not later than 8 hours prior to EOBT. Changes to an issued PPR shall be submitted using Form “C1”.

Non-Scheduled Flights – Form “D” – PPR Request shall be submitted not later than 8 hours prior to EOBT except for non-scheduled flights between the Azores Archipelago islands which can submit the PPR Request not later than 1 hour prior to the EOBT. Changes to an issued PPR shall be submitted using Form “D1”.

PPR Request for flights operated by aircraft code “D” or “E” shall be submitted not later than 24 hours prior to EOBT due to parking constraints.

PPR Request for flights operated by aircraft code “F” shall be submitted not later than 72 hours prior to EOBT due to parking constraints.

All PPR Request Forms can be found in <http://aerogarelajes.azores.gov.pt/>

All civilian flights shall comply with the requirements expressed in GEN 1.2.1, GEN 1.2.2, GEN1.2.3 and GEN 1.3.

The PPR number issued by Aerogare Civil das Lajes shall be inserted in item 18 of the Flight Plan.

Changes to the date/time of arrival and/or departure and to the type of aircraft shall be notified not later than 8 hours prior to EOBT to ensure PPR validation. The absence of notification can result in loss of parking space and consequently in the PPR cancellation.

### 3. Apron operational procedures, Follow-Me guidance and Marshaller assistance

Marshaller assistance is mandatory for parking in entire aerodrome apron area.

Apron entrance is only allowed with Follow-Me assistance.

All stands NOSE-IN / NOSE-OUT

Pilots are expected to follow marshaller signals without hesitation. Expect over steer.

### 4. Push-back, engine start-up and Taxi procedures

Aircraft departing from Lajes will obtain “Oceanic Clearance” after handover to “Santa Maria Radar”

Before Start-Up contact “Lajes Delivery” on frequency 134.100 MHZ or 278.950 MHZ to obtain ATC Clearance. Include CALL SIGN, requested level, requested speed (Mach number/TAS), ATIS acknowledge, aircraft type and position for departure.

All aircraft shall contact “Lajes Delivery” for engine start, include Parking Position and POB.

## LPLA AD 2.21 NOISE ABATEMENT PROCEDURES

Due to Noise Abatement Procedures, Jet Aircraft taking off Runway 15 are to apply the maximum climb rate possible. Engine runs above idle power, multiple approaches and after-burner departures are not authorized between 22:00-07:00 (21:00-06:00).

## LPLA AD 2.22 FLIGHT PROCEDURES

For Standard Instrument Departures Procedures see charts AD 2.24.08-1, AD 2.24.08-3 and AD 2.24.08-5

### OMNIDIRECTIONAL DEPARTURES

OMNIDIRECTIONAL DEPARTURES		
	Description	Restriction
RWY 33	After departure Track Extended RWY Centre Line climbing to 4700FT. Upon reaching 4700 FT resume own navigation as filed.	<b>Close in Obstacles:</b> Fence 168 FT MSL located 140 M from departure end of RWY, 150 M left side of RWY Centre Line.

OMNIDIRECTIONAL DEPARTURES		
<b>RWY 15</b>	After departure Track Extended RWY Centre Line climbing to 4700 FT (PDG 6.1% until passing 500FT). Upon reaching 4700 FT resume own navigation as filed.	<b>Close in Obstacles:</b> Terrain 276 FT MSL, 1060 M from departure end of RWY, 243 M right side of RWY Centre Line. Building 243 FT MSL, 256 M from departure end of RWY, 198 M right side of RWY Centre Line.
<b>CAUTION:</b> Rising Terrain on both sides of departure course requires close adherence to the departure Track to assure obstacle clearance.		

Due to terrain visual traffic circuit should not be flown less than three miles from island.

Controlled Bail-out area: Over the aerodrome, northeast heading, at or above 4700 FT AMSL

Due to high terrain to the west, all turns and traffic patterns should be made to the east.

Caution - RWY may not be visible during portions of downwind leg on circling approach.

**RADAR Failure**

In case of ATS surveillance system outage, procedural control will be provided.

To allow mixed navigation and aircraft with different types of equipment, for separation purposes, pilots might be asked to fly a specific track and report GNSS distance to/from VOROC and TACAT.

All tracks shall be magnetic.

VOROC and TACAT are co-located with LM VOR and TRM TACAN respectively.

Lateral offsets not authorized within Lajes CTA.

**Holding Procedures**

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
CUDLY CUDLY 383200N0265026W	329°	RIGHT	265	FL 060 FL 140	7 NM
CUDLY CUDLY 383200N0265026W	149°	LEFT	265	FL 060 FL 160	7 NM
DEVAN DEVAN 385028N 0272341W	061°	LEFT	250	5000 FT ALT FL 140	1 MIN
KOGON KOGON 385959N0271923W	153°	RIGHT	265	FL 060 FL 160	7 NM
LACTA LACTA 385929N0272012W RDL329-LM VOR DME18-TRM TACAN	149°	LEFT	N/A	N/A	5 NM
LAJES/LM LAJES VOR 384702N0270616W	134°	LEFT	230	4700FT ALT FL 140	1 MIN
LIZHA LIZHA 383125N 0270344W	061°	RIGHT	250	5000 FT ALT FL 090	1 MIN
ODAKI ODAKI 383016N 0264923W	331°	RIGHT	230	5000 FT ALT FL 090	1 MIN
UPZET UPZET 390038N 0270751W	241°	RIGHT	250	5000 FT ALT FL 140	1 MIN

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
VIBOC VIBOC 390145N 0272218W	151°	RIGHT	250	5000 FT ALT FL 140	1 MIN
XETOS XETOS 384132N 0264742W	241°	LEFT	250	5000 FT ALT FL 140	1 MIN

### LPLA AD 2.23 ADDITIONAL INFORMATION

#### 1. Bird Concentration

Caution, Bird activity within 2 NM radius of the aerodrome. Possible Hazard on the Final Approach of both RWY15 and RWY33.

#### Bird Status

- LOW: Continue with normal operating procedures;
- MODERATE: Aircraft departing, except for those performing SID, should reach the highest level possible in the shortest distance, manoeuvring to avoid low level bird concentration areas. Low approaches below 500 FT AGL or "touch and go" not allowed;
- SEVERE: Departures prohibited until a lower category BWC (bird watch condition) is assigned. Aircraft on approach will proceed to holding until a safe bird watch condition, according to supervisor, is reached. If bird watch condition remain unaltered, aircraft shall be informed and diversion to alternate aerodrome suggested.

#### Bird Repellent Devices:

Audio repellents are used according to bird activity. Systems available:

- Propane cannons
- Distress-call and electronic noise-generating speakers

### LPLA AD 2.24 CHARTS RELATED TO THE AERODROME

Name	Page
AERODROME CHART - ICAO	LPLA AD 2.24.01-1
AIRCRAFT PARKING / DOCKING CHART - ICAO	LPLA AD 2.24.02-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO (VOR RWY 15/33 DOLER1B 1D)	LPLA AD 2.24.08-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO (VOR RWY 15/33 MIPRU1B 1D)	LPLA AD 2.24.08-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO (VOR RWY 15/33 REGLA1B 1D)	LPLA AD 2.24.08-5
ATC SURVEILLANCE MINIMUM ALTITUDE CHART-ICAO	LPLA AD 2.24.11-1
INSTRUMENT APPROACH CHART - ICAO (ILS RWY 33)	LPLA AD 2.24.12-1
INSTRUMENT APPROACH CHART - ICAO (ILS Y RWY 15)	LPLA AD 2.24.12-3
INSTRUMENT APPROACH CHART - ICAO (ILS RWY 15)	LPLA AD 2.24.12-5
INSTRUMENT APPROACH CHART - ICAO (VOR RWY 33)	LPLA AD 2.24.12-7
INSTRUMENT APPROACH CHART - ICAO (RNP RWY 15 LNAV ONLY)	LPLA AD 2.24.12-9
INSTRUMENT APPROACH CHART - ICAO (RNP RWY 33 LNAV ONLY)	LPLA AD 2.24.12-11
VISUAL APPROACH CHART	LPLA AD 2.24.13-1

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**AD 2 AERODROMES****LPPT AD 2****LPPT AD 2.1 AERODROME LOCATION INDICATOR AND NAME**

LPPT - LISBOA / Humberto Delgado

**LPPT AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site	LAT: 384627N LONG: 0090803W Midpoint TWY T3
2	Direction and distance of ARP from city or town	7KM (3.65NM) BRG 359° GEO from S.Jorge Castle in Lisboa
3	Elevation/Reference temperature	108M / 355FT 24.2° C (AUG)
4	Geoid undulation at aerodrome elevation position	53M
5	MAG VAR/Annual change	2°W (2020) / 0.17° decreasing
6	AD Administration, address, telephone, telefax, telex, AFS	Post:ANA Aeroportos de Portugal, SA Aeroporto de Lisboa 1700-007 LISBOA Phone: +351 218413500 Fax: +351 218413675 and +351 218413680 AFS: LPPTYDYA SITA: LISANXH LISKAXH Email: lisbon.airport@ana.pt URL: http://www.ana.pt
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	NIL

**LPPT AD 2.3 OPERATIONAL HOURS**

1	AD Administration	H24*
2	Customs and immigration	H24
3	Health and sanitation	First AID: H24 Public Health Authority: MON-FRI 09:00-17:30 (08:00-16:30) VET- Live animal: H24 PPR
4	AIS Briefing Office	H24**
5	ATS Reporting Office (ARO)	H24**
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	Not available

12	Remarks	<p>* Through Airport Duty Manager Phone:+351 218413529 Fax:+351 218445162 Email:alssup@ana.pt SITA:LISANXH, LISKAXH</p> <p>**Through Portugal AIS Briefing and ATS Reporting Office (ARO) Phone:+351 218553341 (recorded) Phone:+351 218553338 (recorded) Email: lppparo@nav.pt URL:https://fplbriefing.nav.pt</p>
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**LPPT AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo handling facilities:	Fork lifts (9 tons) – High lift loader – conveyor belts – sufficient number of various Vehicles and equipment. Prior arrangements with SPdH and/or Portway
2	Fuel/oil types	Fuel grades: JET A1. Oil grades: Mobil Jet Oil 291, Mobil Jet Oil 254 and Mobil Jet Oil II. BP Turbo Oil 2197, BP Turbo Oil 2380 and BP Turbo Oil 25. Other oils with prior arrangements with ground handlers.
3	Fuelling facilities/capacity	Hydrant servicer and refiller: 20L per second. No limitations.
4	De-icing facilities	Not available
5	Hangar space available for visiting aircraft	Not available
6	Repair facilities for visiting aircraft	A major or minor repairs by arrangement with ground handlers.
7	Remarks	Oxygen and related servicing: by arrangement with ground handlers.

**LPPT AD 2.5 PASSENGER FACILITIES**

1	Hotels	Near the aerodrome, in City
2	Restaurants	Aerodrome restaurant: capacity 125 hot meals per hour between 08:00-22:00 (07:00-21:00) (PPR 45 minutes required). Snacks available between 06:00-24:00 (05:00-23:00).
3	Transportation	Buses, Underground, Taxis and Rent-a-Car
4	Medical facilities	First Aid Treatment, Nurse, Hospital in city 6KM (3.24NM).
5	Bank and Post Office	At aerodrome
6	Tourist Office	At aerodrome
7	Remarks	ATM - H24

**LPPT AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	9
2	Rescue equipment	In accordance with CAT 9 requirements established in the Table 5.2 of ICAO Doc. 9137-AN/898 Part 1.
3	Capability for removal of disabled aircraft	All aircraft up to maximum weight of 300 tons with gear down and operational. Grounded aircraft up to code C.
4	Remarks	NIL

- If aircraft is on a short turnaround time of less than 110 min, the APU may be left ON after arrival on Stand.
- If OAT is below 5° C or above 25° C, the APU restriction is extended to 90 min before ETD.

### 3.9 Engine test runs

Engine test runs may only take place:

- On Multipurpose Apron
- Short Engine checks at Idle Power are allowed on stand. TWR permission required.

Test runs are allowed only from 06:00 (05:00) to 22:00 (21:00) on the condition that a previous authorization was obtained from the airport Duty Officer (Telephone Ext.Nr. 21686 or 21782).

## 4. Apron 70 operation and procedures

The coordinates of positions 701, 702, 703 and 704 are painted on the ground at the captain side.

Refuel service by fuel trucks only.

## 5. Parking restrictions

Due to shortage of Parking Stands the following restrictions are imposed:

### Regular Flights

Airport slots for non-based carriers are restricted to a maximum of 2 hours parking. Parking periods exceeding this interval, only upon prior approval from Lisboa Airport Management.

All aircraft based at Lisboa are only allowed to park for an eighteen (18) hours period. Extension to this parking period must be subject to Lisboa Airport Director prior approval. Any extension granted is valid just for the time (date and hour) limit approved.

Failure to comply with the time limit approved on departure aircraft (based or non-based) is immediately subject to surcharge according to decree-law 254/2012.

### Ad Hoc Flights

Maximum turnarounds of:

- 45 MIN - ACFT ICAO code A and B;
- 60 MIN - ACFT ICAO code C and D;
- 90 MIN - ACFT ICAO code E.

When requesting an airport slot, it is compulsory to mention:

- Ground handling agent at LPPT, name and full contact of local representative in Lisbon: address, email, telephone (including mobile).
- Parking periods exceeding the times above, only on very exceptional circumstances and upon prior approval from Lisboa airport management.

## 6. Use of runways

### 6.1 Runway-In-Use

RWY 02/20 is the only runway available.

Traffic departing RWY 02 may be subjected to a climb gradient of 6% until passing 2000FT due to ATS constraints. This restriction, when needed, will be included in the ATIS departure broadcast and/or Clearance delivery. If unable, pilot shall advise ATC prior to start up.

Traffic on approach to RWY 02 may be subjected to missed approach climb gradient of 3.5% until passing 2000FT due to ATS constraints. This restriction, when needed, will be included in the ATIS arrival broadcast. If unable, pilot shall advise ATC prior to commence the approach.

Unless otherwise instructed by ATC, pilots should plan their landing to vacate Runway 02 via RET H4 (distance from THR - 1790M) and Runway 20 preferably via RET H1 (distance from THR - 1600M) advising as soon as possible for the need of RET

H3 (distance from THR - 1910M). If unable to comply pilots shall advise ATC. High speed turn offs have been designated for vacating speeds up to 30KT.

If, for any particular reason, pilots wish to vacate Runway 02/20 via TWY A6 or T5 make the request in first contact with Tower.

In order to avoid jet blast affecting runway safety operation, aircraft vacating or crossing runways shall not stop until the RWY ILS sensitive area is completely free or until reaching parallel alignment with the RWY CL whichever applicable, unless otherwise instructed by the ATC.

## 6.2 Periods of Peak Traffic Demand

High Intensity Runway Operations (HIRO) are valid from 06:00 to 24:00 (05:00 to 23:00) unless otherwise advised by ATC (e.g. via ATIS). The HIRO system optimises separation of aircraft on final approach in order to minimise runway occupancy time for both arriving and departing aircraft, thereby maximising runway utilisation and minimising go-around.

### Departures

ATC will consider every ACFT at the runway holding point as able to commence line-up and take-off roll immediately after clearance is issued, unless otherwise instructed. Pilots not ready when reaching the holding point (no ACFT in front on the same taxiway) shall advise ATC on Tower frequency as early as possible before entering the RWY.

When cleared for take-off, ATC will expect and has planned on seeing movement within 10 seconds (of take-off clearance being issued). Wake vortex separation is applied by ATC in accordance with the published requirements. If more separation than the prescribed minima is requested, pilots shall notify ATC before entering the RWY.

Where possible, cockpit checks and cabin readiness should be completed before line-up and any checks needing completion on the runway should be kept to the minimum required.

After take-off contact Lisboa Approach when passing 1000FT QNH unless otherwise instructed by Lisboa Tower.

### Arrivals

Pilots are reminded that by leaving the runway at the fastest speed commensurate with safety and standard operating procedures, ATC will be able to guide aircraft on final approach using minimum radar separation or separation minimum according to wake vortex category. Extended runway occupancy may result in a go-around. Commensurate with the aircraft safety and standard operation, pilots are reminded to adopt the following procedures:

- a. Comply with published standard arrival procedures altitude;
- b. Strictly adhere to published or assigned speeds on descent;
- c. Apply accurate speed control on final; and
- d. Vacate the runway expeditiously at the recommended rapid exit TWY.

## 6.3 Take-off run

When RWY 02 is in use the following criteria will be applied:

- a. For departure sequencing purposes ATC will indiscriminately use M5 and N2 intersections, if unable advise at start-up.
- b. Take-off from M5 and N2 intersections are considered to be the same point for the purposes of departure wake vortex separation.
- c. Whenever feasible ATC will inform about TWY P intersection availability as soon as possible.

When RWY 20 is in use, the preferred departure intersection for all aircraft, except for heavy jets, should be U5.

Pilots shall advise ATC on start-up when full length for RWY 02 or RWY 20 is required.

## 6.4 General conditions for the application of reduced runway separation at RWY 02/20:

- a. Reduced runway separation minima may only be applied during the hours of daylight from 30 minutes after local sunrise to 30 minutes before local sunset. The controller is able to assess separation visually or by surveillance derived information and the surveillance system that provides the controller with position information shall be utilized in combination with visual means and shall be serviceable at all times;
- b. the tail wind component is not greater than 5KT;
- c. ground visibility is at least 5KM and the ceiling is not less than 300M(1000FT);

**AD 2 AERODROMES****LPMA AD 2****LPMA AD 2.1 AERODROME LOCATION INDICATOR AND NAME**

LPMA - MADEIRA

**LPMA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site	LAT: 324139N LONG: 0164641W 1763 M, 225° GEO from THR RWY 23
2	Direction and distance of ARP from city or town	13.2 KM (7.1NM) BRG 067° GEO from Funchal Cathedral
3	Elevation/Reference temperature	58M / 191FT 26.1°C (AUG)
4	Geoid undulation at aerodrome elevation position	49M
5	MAG VAR/Annual change	4° W (2020) / 0.17° decreasing
6	AD Administration, address, telephone, telefax, telex, AFS	Post: ANA-SA Aeroportos de Portugal Direção dos Aeroportos da Madeira Aeroporto da MADEIRA 9100-101 SANTA CRUZ MADEIRA Phone: +351 291520700 Fax: +351 291524322, +351 291524819 AFS: LPMAYDYA SITA: FNCKAXH Email: madeira.airports@ana.pt URL: http://www.ana.pt
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	NIL

**LPMA AD 2.3 OPERATIONAL HOURS**

1	AD Administration	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	04:30-00:30 (03:30-23:30). On request 00:30-04:30 (23:30-03:30)
10	Security	H24
11	De-icing	NIL

12	Remarks	<p>* Through Portugal AIS Briefing Office Phone:+351 291520610 (recorded) Phone:+351 218553341/38 (recorded) Email: lpmaaro@nav.pt or lppparo@nav.pt URL:https://fplbriefing.nav.pt</p> <p>** Through Portugal ATS Reporting Office (ARO) Phone:+351 291520610 (recorded) Phone:+351 218553341/38 (recorded) Email: lpmaaro@nav.pt or lppparo@nav.pt URL:https://fplbriefing.nav.pt</p>
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**LPMA AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo handling facilities:	High Lift Loader, Conveyor Belt, Fork Lifts, various Vehicles and Equipments
2	Fuel/oil types	100 LL, JET A1
3	Fuelling facilities/capacity	Hydrant system and fuel trucks. JET A1 - Total capacity 583.200 litres. Maximum delivery rate 75 litres per second. 100LL - capacity 1200 litres. Maximum delivery rate 60 litres per minute.
4	De-icing facilities	NIL
5	Hangar space available for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	Minor repairs only
7	Remarks	Oxygen and related servicing: Oxygen available only in city with previous request or arrangement with TAP – AIR Portugal

**LPMA AD 2.5 PASSENGER FACILITIES**

1	Hotels	In cities: Funchal, Santa Cruz, Ribeira Brava, Machico,Santana, Ponta do Sol, Calheta and Porto Moniz Villages
2	Restaurants	AD restaurant - 976 seats available
3	Transportation	Buses and taxis
4	Medical facilities	First Aid treatment: daily 0800/2400. Other hours: Funchal hospital H24, Machico Medical Center H24, Santa Cruz Medical Center MON to FRI 0800/1800, SAT and SUN 0800/1300. Medical emergency services available on request
5	Bank and Post Office	Bank - MON to FRI - 08:30 / 18:30 Exchange Money Facilities - 05:00 / 01:00 Post Office - MON to FRI - 08:30 / 17:30 and 18:30 / 20:30 SAT, SUN and HOL - 17:00 / 20:30
6	Tourist Office	Daily 09:00 / 21:00
7	Remarks	NIL

**LPMA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	7 Higher category up to Cat 9 available by prior permission requested to Madeira Airport Director (LPMAYDYA) at least 72 hours prior operation.
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**AD 2 AERODROMES****LPPD AD 2.****LPPD AD 2.1 AERODROME LOCATION INDICATOR AND NAME**

LPPD - PONTA DELGADA - JOÃO PAULO II

**LPPD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site	LAT: 374431N LONG: 0254152W Intersection Runway 12/30 with Taxiway "F"
2	Direction and distance of ARP from city or town	2KM (1.08NM) BRG 286° GEO from City
3	Elevation/Reference temperature	79 M / 259 FT 23°C (AUG)
4	Geoid undulation at aerodrome elevation position	57M
5	MAG VAR/Annual change	7°W (2020) / 0.17° decreasing
6	AD Administration, address, telephone, telefax, telex, AFS	Post: ANA Aeroportos de Portugal, SA Aeroporto João Paulo II Ilha de São Miguel – Açores 9500-749 RELVA Phone: +351 296205400, +351 296205436 Fax: +351 296286923, +351 296205429 AFS: LPPDYDYA SITA: BOHBBXH Email: azores.airports@ana.pt URL: http://www.ana.pt
7	Types of traffic permitted (IFR/VFR)	VFR / IFR
8	Remarks	NIL

**LPPD AD 2.3 OPERATIONAL HOURS**

1	AD Administration	07:15-01:00 (06:15-24:00)
2	Customs and immigration	07:00-01:00 (06:00-24:00)
3	Health and sanitation	07:00-01:00 (06:00-24:00) Vet. services- live animals: 8 hours prior request (contact +351 962374517)
4	AIS Briefing Office	H24*
5	ATS Reporting Office (ARO)	H24**
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	07:00-01:00 (06:00-24:00)
9	Handling	07:00-01:00 (06:00-24:00)
10	Security	H24
11	De-icing	NIL

12	Remarks	<p>See AD 1 <a href="#">Restrictions for nocturnal flights for civil aircraft on Portuguese airports and/or aerodromes</a> and GEN 4 Airport Opening Charge for further details on restrictions.</p> <p>* Through Portugal AIS Briefing Office Phone:+351 296305656 (recorded) Phone:+351 218553341/38 (recorded) Email: pdlafs@nav.pt or lppparo@nav.pt URL:https://fplbriefing.nav.pt</p> <p>** Through Portugal ATS Reporting Office (ARO) Phone:+351 296305656 (recorded) Phone:+351 218553341/38 (recorded) Email: pdlafs@nav.pt or lppparo@nav.pt URL:https://fplbriefing.nav.pt</p>
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**LPPD AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo handling facilities:	High lift loaders, conveyor belts, fork lifts Sufficient number of various vehicles and equipment
2	Fuel/oil types	JET A1 BPTO2389 - Turbo Oil and BPTO2380 - Turbo Oil
3	Fuelling facilities/capacity	Hydrant System and Fuel Trucks. Maximum delivery rate: 2200 litres per minute.
4	De-icing facilities	NIL
5	Hangar space available for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	By arrangement with SATA Air Açores Maintenance Phone: +351 296287412 FAX: +351 296287574 SITA: PDLMXSP
7	Remarks	Oxygen and related servicing – by arrangement with SATA Air Açores Maintenance

**LPPD AD 2.5 PASSENGER FACILITIES**

1	Hotels	In City
2	Restaurants	AD restaurant (180 meals per hour). Other Restaurants in City
3	Transportation	Buses, Taxis and Rent-a-Car at Aerodrome
4	Medical facilities	First Aid Treatment at Aerodrome, Hospital in City (2 KM (1.08NM from Aerodrome)
5	Bank and Post Office	At Aerodrome Bank MON-FRI 09:30-13:00 (08:30-12:00) and 14:00-16:00 (13:00-15:00) Post office MON-FRI 09:30-13:30 (08:30-12:30) and 15:00-18:00 (14:00-17:00)
6	Tourist Office	At Aerodrome, 08:30-22:30 (07:30-21:30)
7	Remarks	NIL



**LPPD AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	CAT 7 CAT 8 and CAT 9 - Available by prior arrangements with Airport Director at least 24 hours prior to operation
2	Rescue equipment	- In accordance with CAT 9 requirements established in the Table 5.2 of ICAO DOC.9137-AN/898 Part I. - KIT TIRFOR embarked in a Crash Tender Vehicle.
3	Capability for removal of disabled aircraft	Until A313 aircraft, with gear down and operational.
4	Remarks	NIL

**LPPD AD 2.7 RUNWAY SURFACE CONDITION ASSESSEMENT AND REPORTING AND SNOW PLAN**

1	Type(s) of clearing equipment	NIL
2	Clearance priorities	NIL
3	Use of material for movement area surface treatment	NIL
4	Specially prepared winter runways	NIL
5	Remarks	For further information, see also Section AD 1.2.2. - RUNWAY SURFACE CONDITIONS ASSESSEMENT AND REPORTING AND SNOW PLAN.

**LPPD AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

1	Apron surface and strength	APRON	SURFACE	STRENGTH	
		N	Asphalt	PCN 29/F/B/X/T	
		Concrete	PCN 17/R/C/X/T		
	S	Concrete	Under evaluation		
	W	Concrete	PCN 70/R/B/W/T		
2	Taxiway width, surface and strength	TAXIWAY	WIDTH	SURFACE	STRENGTH
		A,B and F	23 M	Asphalt	Under evaluation
		C,D and E	23 M		PCN 90/F/C/W/T
		TAXILANE	WIDTH	SURFACE	STRENGTH
3	Altimeter checkpoint location and ELEV	None			
4	VOR checkpoint locations	None			

		RAMP / STAND	INS COORDINATES	ELEVATION (M/AMSL)	REMARKS		
5	INS checkpoint positions	N1	374434.57N 0254146.32W	66.14 M	NIL		
		N2	374436.00N 0254146.92W	66.52 M			
		N3	374435.75N 0254147.28W	66.49 M			
		N7	374436.96N 0254150.79W	66.97 M			
		N10	374436.56N 0254148.82W	66.64 M			
		S1	374430.88N 0254208.47W	70.29 M			
		S2	374429.86N 0254205.16W	70.18 M			
		S3	374428.74N 0254202.21W	69.88 M			
		W1	374454.80N 0254235.65W	80.18 M			
		W2	374456.26N 0254241.92W	80.18 M			
		W3	374455.84N 0254239.91W	80.18 M			
		W4	374455.18N 0254237.81W	80.18 M			
		W5	374454.51N 0254235.70W	80.18 M			
		W6	374453.82N 0254233.60W	80.09 M			
		W7	374453.60N 0254231.66W	79.96 M			
				W8		374453.54N 0254230.67W	79.82 M
				W9		374452.67N 0254230.32W	79.54 M
		W10	374452.66N 0254228.66W	79.42 M			
		W11	374452.60N 0254227.68W	79.28 M			
		W12	374451.72N 0254227.31W	79.15 M			
6	Remarks		NIL				

**LPPD AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system at aircraft stands	Taxiway and Apron guidelines in accordance with ICAO Annex 14 Apron W with ID signs and marks.
2	RWY/TWY markings and lights	<p>Runway Marking Aids: Runway designation, Runway centre line, Aiming point, Displaced Threshold (RWY 30), Touchdown zone markings, Runway side strip, Runway turn pad markings threshold, Runway transverse strip (RWY 30), RWY extension.</p> <p>Taxiway Marking Aids: Taxiway centre line, Taxiway side strip, Runway holding positions.</p> <p>Runway lights: Threshold, Runway edge, Runway centre line, Runway end, Runway turn pad lights, Runway wing bar lights.</p> <p>Taxiway lights: Taxiway edge lights at TWYs A, B, and F, TWY centre line lights at TWY B, C, D and E</p>
3	Stop bars	Stop bar at TWYs C, D and E
4	Remarks	TWY edge retro-reflective markers (Blue Sleeve) at TWYs C, D and E

**AD 2 AERODROMES****LPPR AD 2****LPPR AD 2.1 AERODROME LOCATION INDICATOR AND NAME**

LPPR - PORTO / Francisco Sá Carneiro

**LPPR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site	LAT: 411408N LONG: 0084041W Intersection Runway with Taxiway "H "
2	Direction and distance of ARP from city or town	11KM (6NM) BRG 322° from Porto Centre, Clerigos Tower.
3	Elevation/Reference temperature	69M / 227FT 21° C (AUG)
4	Geoid undulation at aerodrome elevation position	55M
5	MAG VAR/Annual change	02° W (2020) / 0.18° decreasing
6	AD Administration, address, telephone, telefax, telex, AFS, E-mail and WEB URL	Post: ANA Aeroportos de Portugal, SA Aeroporto Francisco Sá Carneiro 4471-095 MOREIRA DA MAIA Phone: +351 229400600, +351 229432400 AFS: LPPRYDYA SITA:OPOKAXH Email: porto.airport@ana.pt URL: http://www.aeroportoporto.pt
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	NIL

**LPPR AD 2.3 OPERATIONAL HOURS**

1	AD Administration	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	05:00-23:00 (04:00-22:00) 23:00-05:00 (22:00-04:00) on request.
9	Handling	05:00-01:00 (04:00-24:00) 01:00-05:00 (00:00-04:00) on request.
10	Security	H24
11	De-icing	Not Available

12	Remarks	<p>* Through Airport Duty Manager Tel: +351 229432400 Email: ascsoa-supervisor@ana.pt Sita: OPOKAXH</p> <p>** Through Porto or Portugal AIS Briefing Office Phone:+351 229408024 (recorded) Phone:+351 218553341/38 (recorded) Email: lppraro@nav.pt or lppparo@nav.pt URL:https://fplbriefing.nav.pt</p> <p>*** Through Porto or Portugal ATS Reporting Office (ARO) Phone:+351 229408024 (recorded) Phone:+351 218553341/38 (recorded) Email: lppraro@nav.pt or lppparo@nav.pt URL:https://fplbriefing.nav.pt</p>
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**LPPR AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo handling facilities:	All modern facilities handling weights up to 12 tons
2	Fuel/oil types	JET A1 / Mobil JET II, Mobil Jet 254 and Exxon Hyjet V (Hydraulic) EASTMAN Turbo Oil 2197
3	Fuelling facilities/capacity	Hydrant System (JET A1). 4 Refuellers Capacity 18000 litres each. 2 Bowsers 43000 litres of capacity each. 7 Dispensers.
4	De-icing facilities	Not Available
5	Hangar space available for visiting aircraft	Not Available
6	Repair facilities for visiting aircraft	<p>Minor repairs by arrangement with: TAP – Air Portugal Maintenance Telephone: +351 229485794 or Mobile phone: + 351 927052560 Mobile phone: + 351 968026572 FAX: +351 229487714 or SITA: OPOMMTP Email: manopo.me@tap.pt</p> <p>LAS – Louro Aeronaves e Serviços Lda. Telephone / FAX: +351 229480568 Mobile Phone: +351 963050083 or +351 965448759 Email: las.porto@las.pt</p>
7	Remarks	Oxygen and related servicing: Only by request

**LPPR AD 2.5 PASSENGER FACILITIES**

1	Hotels	Near the aerodrome, Matosinhos and Porto Cities
2	Restaurants	AD Restaurant: 150 meals per hour
3	Transportation	Metropolitan Railway (line E - Violet), Buses, Taxis and Rent-a-Car
4	Medical facilities	First Aid Treatment (Nursing only). Hospital in Porto and Matosinhos at 6KM (3.24NM)
5	Bank and Post Office	Post Office at the terminal. Bank NOT AVBL, only ATM
6	Tourist Office	At the terminal
7	Remarks	NIL

**LPPR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	CAT 8
2	Rescue equipment	According to ICAO Annex 14
3	Capability for removal of disabled aircraft	B747 or similar with gear down and operational
4	Remarks	NIL

**LPPR AD 2.7 RUNWAY SURFACE CONDITION ASSESSEMENT AND REPORTING AND SNOW PLAN**

1	Type(s) of clearing equipment	NIL
2	Clearance priorities	NIL
3	Use of material for movement area surface treatment	NIL
5	Specially prepared winter runways	NIL
5	Remarks	For further information, see also Section AD 1.2.2. - RUNWAY SURFACE CONDITIONS ASSESSEMENT AND REPORTING AND SNOW PLAN.

LPPR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron, Surface and Strength	<b>APRON</b>	<b>SURFACE</b>	<b>STRENGTH</b>	
		S	Concrete	PCN 71/R/B/W/T	
		T		PCN 91/R/B/W/T	
		W	Asphalt	PCN 109/F/B/W/T	
2	Taxiway Width, Surface and Strength	<b>TAXIWAY</b>	<b>WIDTH</b>	<b>SURFACE</b>	<b>STRENGTH</b>
		A1	23M	Asphalt	PCN 150/F/C/W/T
		A2	23M		PCN 150/F/C/W/T
		A3	23M		PCN 150/F/C/W/T
		B	23M		PCN 86/F/C/W/T
		C	23M		PCN 146/F/B/W/T
		D	25M		PCN 150/F/A/W/T
		E1	23M		N/A - Under evaluation
		E2	23M		N/A - Under evaluation
		E3	23M		PCN 138/F/B/W/T
		E4	23M		PCN 138/F/B/W/T
		E5	23M		PCN 138/F/B/W/T
		F1	23M		PCN 190/F/A/W/T
		G	23M		PCN 188/F/A/W/T
		H	23M		PCN 150/F/B/W/T
		J	23M		PCN 150/F/B/W/T
		S1	23M		PCN 86/F/C/W/T
		S2	23M		PCN 86/F/C/W/T
		S3	23M		PCN 131/F/B/W/T
		S4	23M		PCN 131/F/B/W/T
S5	25M	PCN 131/F/B/W/T			
S6	23M	PCN 131/F/B/W/T			
T	23M	PCN 150/F/B/W/T			
Y	23M	PCN 149/F/B/W/T			
3	Altimeter checkpoint location and elevation	In each Stand of Apron "S "			
4	VOR checkpoint locations	Not Applicable			

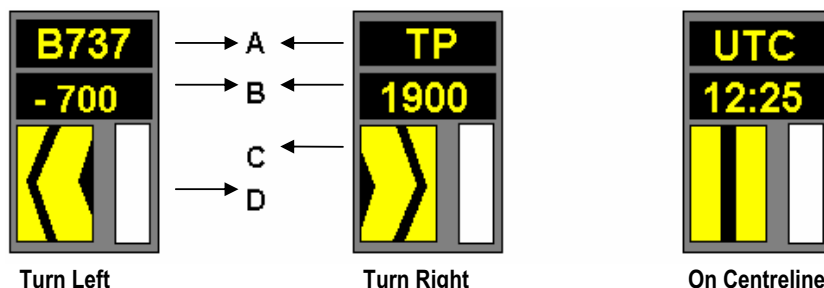
	INS Checkpoint positions	RAMP / STAND	INS COORDINATES	ELEVATION (M/AMSL)	ACFT TYPE (CRITICAL)	REMARKS
		S08	411401.59N 0084017.17W	71.90	B738	Nose IN
S09	411403.30N 0084018.64W	71.63	A332	Nose IN		
S10	411401.58N 0084016.71W	72.01	B738	Nose IN		
S11	411403.34N 0084018.49W	71.70	B767	Nose IN		
S12	411404.05N 0084021.17W	71.14	A330	Nose IN		
S20	411401.87N 0084029.05W	68.89	A321	Nose IN		
S21	411403.17N 0084029.39W	68.90	A321	Nose IN		
S22	411404.46N 0084029.73W	68.89	A321	Nose IN		
S23	411405.76N 0084030.06W	68.89	A321	Nose IN		
S24	411407.05N 0084030.40W	68.90	A321	Nose IN		
S25	411408.35N 0084030.74W	68.90	A321	Nose IN		
S30	411406.22N 0084021.79W	71.27	A332	Nose IN		
S31	411407.64N 0084019.81W	71.82	B738	Nose IN		
S32	411409.35N 0084019.42W	72.01	B757	Nose IN		
S33	411411.13N 0084019.97W	71.99	B767	Nose IN		
S34	411412.80N 0084020.49W	71.98	B757	Nose IN		
S35	411414.58N 0084020.93W	71.97	B767	Nose IN		
S36	411416.25N 0084022.14W	71.82	B738	Nose IN		
S37	411416.87N 0084024.68W	71.11	B764	Nose IN		
S38	411417.98N 0084025.21W	71.00	B738	Nose IN		
S40	411412.64N 0084032.11W	68.84	B763	Nose IN		
S41	411414.48N 0084032.58W	68.84	B763	Nose IN		
S42	411416.31N 0084033.06W	68.82	A332	Nose IN		
S43	411418.57N 0084033.66W	68.64	B763	Nose IN		
S50	411419.39N 0084025.29W	71.02	B738	Nose IN		
S51	411419.43N 0084025.11W	71.16	B744	Nose IN		
S52	411420.21N 0084025.42W	71.14	B738	Nose IN		
S53	411420.94N 0084022.96W	71.93	B764	Nose IN		
S54	411422.94N 0084021.98W	72.10	B738	Nose IN		
S55	411424.66N 0084022.46W	72.03	B744	Nose IN		
S56	411423.10N 0084021.67W	72.01	B738	Nose IN		
S57	411426.18N 0084022.87W	72.03	B738	Nose IN		
S60	411423.47N 0084035.15W	68.74	A321	Nose IN		
S61	411424.70N 0084035.47W	68.72	A321	Nose IN		
S62	411425.93N 0084035.80W	68.72	A321	Nose IN		
S63	411427.16N 0084036.12W	68.70	CRJK	Nose IN		
S64	411428.39N 0084036.44W	68.73	A321	Nose IN		
S65	411429.62N 0084036.76W	68.74	A321	Nose IN		
S66	411430.85N 0084037.09W	68.73	A321	Nose IN		
S70	411427.84N 0084023.46W	71.90	B764	Nose IN		
S71	411429.46N 0084024.11W	71.75	B757	Nose IN		
S72	411430.32N 0084023.96W	72.00	A380	Nose IN		
S73	411430.93N 0084024.49W	72.00	B757	Nose IN		
T01	411410.48N 0084105.58W	62.04	B764	Nose IN		
T02	411412.62N 0084106.21W	61.69	B744	Nose IN		
T03	411415.03N 0084106.65W	61.35	B744	Nose IN		
T04	411417.20N 0084107.30W	60.99	B764	Nose IN		
W	411406.92N 0084056.09W	64.88	B762	Nose OUT		
6	Remarks	NIL				

LPPR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system at aircraft stands

AIRCRAFT PARKING AND INFORMATION SYSTEM

APIS DISPLAY



Stands S10, S11, S12, S30, S31, S32, S33, S34, S35, S36, S37, S51, S53, S54 and S55 provided with APIS

**DESCRIPTION**

- A – Display indicating: COMPANY, “ETD”, “UTC”, AIRCRAFT TYPE, “SLOW”, “STOP”, “OK”, “CHCK” and “TOO/FAR” information;
- B – Display indicating: FLIGHT NUMBER, TIME, AIRCRAFT SERIES, “STOP”. “ON”, (Chocks) and “DOWN” information;
- C – Centreline beacon side-in-guidance;
- D – Closing-rate information. Full closing rate thermometer indicates at least 14 meters to stop position.

**PILOT INSTRUCTIONS**

- 1 – Follow taxi lead-in line and adjust according to the directions of centreline beacon side-in guidance;
- 2 – Check correct ACFT type is flashing and that centreline guidance and closing rate thermometer is activated. The flight number may also be presented;
- 3 – Do not enter the stand if display presents STOP or wrong ACFT– type;
- 4 – Approx. 14 metres before STOP, flight number will disappear if this is presented;
- 5 - 19 M before STOP, ACFT type goes steady. If speed is to high, SLOW DOWN can be shown;
- 6 - Full closing rate thermometer indicates at least 14 metres to STOP. When ACFT has less than 14 metres to STOP thermometer starts to move from bottom to top;
- 7 - When stop position reached, display indicates STOP and if aircraft parks correctly, display indicates also OK;
- 8 – If aircraft overshoots the limit for correct parking, display indicates TOO/FAR. Push back might be necessary;
- 9 - Displays and indicators automatically shut down after some seconds. After ON BLOCK, display can indicate UTC time and CHCK ON (chocks on).
- 10 - After CHOCKS ON, displays departure flight number...

1



2	RWY/TWY markings and lights	<p>Runway Marking Aids: Runway Designation, Runway Centre Line, Aiming Point, Displaced Threshold, Touchdown Zone Markings, Runway Side Stripe, and Runway Turn Pad Markings.</p> <p>Runway Lights: RWY 17: Threshold, Runway Edge, Centre Line, Runway End and Touchdown Zone RWY 35: Threshold, Runway Edge, Centre Line, Runway End, Threshold Identification and Runway Turn Pad Lights.</p> <p>Wing Bar Lights</p> <p>Taxiway Marking Aids: Taxiway Centre Line, Taxiway Side Stripe, Runway Holding Positions, and Intermediate Holding Positions.</p> <p>Taxiway Lights: All Taxiways with Centre Line. RETIL for F1.</p>
3	Stop bars	<p>Stop Bar: All CAT II / III Holding Positions with Stop Bars associated and vertical sign; at Taxiway S2, S4, E1, E2, E3, E4, F1 with Stop Bar.</p>
4	Remarks	NIL

### LPPR AD 2.10 AERODROME OBSTACLES

In Area 2					
Obst. ID Designation	Obst. Type	Obst. Position	Elevation / HGT	Markings Type, Colour	Remarks
a	b	c	d	e	f
LPPR 01	TOWER	411346.44N 0084037.69W	75M		RWY 17 OBST 01 Ref Chart LPPR AD 2.24.04-1
LPPR 02	TREE	411346.79N 0084031.75W	78M		RWY 17 OBST 02 Ref Chart LPPR AD 2.24.04-1
LPPR 03	TREE	411342.26N 0084034.75W	76M		RWY 17 OBST 03 Ref Chart LPPR AD 2.24.04-1
LPPR 04	TREE	411340.26N 0084036.96W	78M		RWY 17 OBST 04 Ref Chart LPPR AD 2.24.04-1
LPPR 05	TREE	411336.47N 0084026.45W	78M		RWY 17 OBST 05 Ref Chart LPPR AD 2.24.04-1
LPPR 06	TREE	411334.64N 0084024.54W	88M		RWY 17 OBST 06 Ref Chart LPPR AD 2.24.04-1
LPPR 07	TREE	411333.10N 0084023.95W	87M		RWY 17 OBST 07 Ref Chart LPPR AD 2.24.04-1
LPPR 08	TREE	411330.67N 0084026.53W	81M		RWY 17 OBST 08 Ref Chart LPPR AD 2.24.04-1
LPPR 09	TOWER	411551.51N 0084111.49W	45M		RWY 35 OBST 01 Ref Chart LPPR AD 2.24.04-1
LPPR 10	TREE	411600.35N 0084116.01W	53M		RWY 35 OBST 02 Ref Chart LPPR AD 2.24.04-1
LPPR 11	ANTENNA	411620.89N 0084113.26W	58M	Fixed Red Light	RWY 35 OBST 03 Ref Chart LPPR AD 2.24.04-1
LPPR 12	NAVAID	411622.74N 0084116.27W	59M	Fixed Red Light	RWY 35 OBST 04 Ref Chart LPPR AD 2.24.04-1
LPPR 13	TREE	411626.26N 0084121.15W	78M		RWY 35 OBST 05 Ref Chart LPPR AD 2.24.04-1
LPPR 14	TREE	411626.95N 0084120.60W	80M		RWY 35 OBST 06 Ref Chart LPPR AD 2.24.04-1

LPPR 15	TREE	411633.45N 0084115.32W	76M		RWY 35 OBST 07 Ref Chart LPPR AD 2.24.04-1
LPPR 16	TREE	411635.90N 0084131.03W	74M		RWY 35 OBST 08 Ref Chart LPPR AD 2.24.04-1
LPPR 17	TREE	411637.69N 0084123.19W	72M		RWY 35 OBST 09 Ref Chart LPPR AD 2.24.04-1
LPPR 18	ANTENNA	411824.06N 0084147.65W	105M	Fixed Red Light	RWY 35 OBST 10 Ref Chart LPPR AD 2.24.04-1
LPPR 19	TOWER	411232.70N 0084237.93W	118M / 101M	Red and White Stripes and Fixed Red Light	
LPPR 20	TOWER	411240.29N 0084237.51W	118M / 101M	Red and White Stripes and Fixed Red Light	
LPPR 21	TOWER	411240.41N 0084238.83W	117M / 101M	Red and White Stripes and Fixed Red Light	
LPPR 22	TOWER	411246.78N 0084239.27W	116M / 100M	Red and White Stripes and Fixed Red Light	
LPPR 23	TOWER	411248.22N 0084243.39W	115M / 101M	Red and White Stripes and Fixed Red Light	
LPPR 24	TOWER	411251.12N 0084238.54W	117M / 101M	Red and White Stripes and Fixed Red Light	
LPPR 25	TOWER	411256.84N 0084230.95W	98M / 81M	Red and White Stripes and Fixed Red Light	
LPPR 26	TOWER	411257.22N 0084235.77W	109M / 92M	Red and White Stripes and Fixed Red Light	
LPPR 27	TOWER	411308.57N 0084234.67W	118M / 100M	Red and White Stripes and Fixed Red Light	
LPPR 28	TOWER	411314.96N 0084227.30W	137M / 116M	Red and White Stripes	
LPPR 29	BUILDING	411307.94N 0084236.49W	100M / 82M	Flashing Red Light	
LPPR 30	BUILDING	411307.97N 0084236.95W	96M / 78M	Flashing Red Light	
LPPR 31	NATURAL _HIGHPOINT	411456.01N 0084101.56W	63M		
LPPR 32	TOWER	411402.91N 0083719.45W	187M / 87M	Flashing Red Light	

In Area 3					
Obst. ID Designation	Obst. Type	Obst. Position	Elevation / HGT	Markings Type, Colour	Remarks
a	b	c	d	e	f
NIL					

**LPPR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

1	Associated MET Office	PORTO AMO
2	Hours of service	H24
3	Office responsible for TAF preparation Periods of validity	CPVM-AERO MWO/AMO 24 HR - Issuance every 6 Hours
4	Type of landing forecast	NIL
5	Briefing/consultation provided	Briefing on observed meteorological conditions: personal or by phone. Briefing on expected meteorological conditions: By phone provided by the CPVM-AERO MWO/AMO (see GEN 3.5.4).
6	Flight documentation Language(s) used	C, CR English, Portuguese
7	Charts and other information available for briefing or consultation	P, S, SWH, SWM, W
8	Supplementary equipment available for providing information	Self-briefing, WXR
9	ATS units provided with information	Porto TWR and APP
10	Additional information (limitation of service, etc.)	PORTO AMO: Phone: +351 229484527 Fax: +351 229411955 Email: lppr@ipma.pt AFS: LPPRYMYM CPVM-AERO MWO/AMO: Phone: +351 218474583 Fax: +351 218402370 Email: met.aero@ipma.pt

**LPPR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

Designations	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR COORD, RWY END, Geoid Undulation	THR elevation and highest elevation of TDZ of precision APCH RWY	Slope of RWY/SWY
1	2	3	4	5	6	7
17	168.83°	3480x45	PCN80/F/C/W/T * ASPH.	THR 411538.45N 0084104.42W RWY END 411357.19N 0084037.87W GEOID UNDULATION 54.93M	THR Elevation 46.0M Highest Elevation of TDZ 411509.82N 0084056.96W 55.1M	i = 0.8%
35	348.83°			THR 411401.99N 0084039.13W RWY END 411547.94N 0084106.92W GEOID UNDULATION 55M	69.2M THR Elevation	i = 0.2%

Designations	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA	OFZ	Remark
<b>1</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
17	Not Applicable	Not Applicable	3600x300	90x90		Threshold Runway 17 permanently displaced 300M and Threshold Runway 35 permanently displaced 150M. RWY FCT CLBR: 0.86
35						

**LPPR AD 2.13 DECLARED DISTANCES**

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
17	3480	3480	3480	3180	-
	2726	2726	2726	-	Take-off from intersection with TWY E5.
	2650	2650	2650	-	Take-off from intersection with TWY G.
	1800	1800	1800	-	Take-off from intersection with TWY A3.
35	3480	3480	3480	3330	-
	3120	3120	3120	-	Take-off from intersection with TWY C.
	2780	2780	2780	-	Take-off from intersection with TWY D.
	3120	3120	3120	-	Take-off from intersection with TWY H.
	2950	2950	2950	-	Take-off from intersection with TWY J.

**LPPR AD 2.14 APPROACH AND RUNWAY LIGHTING**

RWY Designator	APCH light Type / Length / Intensity	THR Light colour/W BAR	VASIS type	TDZ length	RWY Centre Line Lights Length / spacing / colour/ Intensity	RWY edge Lights Length / spacing / colour/ Intensity	RWY End Lights Colour / WBAR	SWY Light Length / Colour	Remarks
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
17	Precision Approach CAT II Lighting system / (distance coded centre line) / LIH	Green / 1,6M spacing / WBAR	PAPI -Slope 2.7° left side. MEHT - 65FT	900M	2280 white + 600M white/red + 300M red / 15 M spacing / LIH	300M red + 2580M white + 600M yellow / 60M spacing / LIH	RED	Not Applicable	

RWY Designator	APCH light Type / Length / Intensity	THR Light colour/W BAR	VASIS type	TDZ length	RWY Centre Line Lights Length / spacing / colour/ Intensity	RWY edge Lights Length / spacing / colour/ Intensity	RWY End Lights Colour / WBAR	SWY Light Length / Colour	Remarks
1	2	3	4	5	6	7	8	9	10
35	Precision Approach CAT I Lighting system / (distance coded centre line) / LIH	Green / 3M spacing / WBAR/ RTIL	PAPI -Slope 3° left side. MEHT - 48FT	Not Applicable	2430M white + 600M white/red + 300M red / 15 M spacing / LIH	150M red + 2730M white + 600M yellow / 60M spacing / LIH	RED	Not Applicable	

### LPPR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	None
2	LDI location and lighting Anemometer location and lighting	LDI: NIL Anemometers: RWY 35: Left Side, 490M THR, 110M RWY Centreline. Lighted. RWY 17: Right Side, 340M THR, 110M RWY Centreline. Lighted. Middle Point: 1850M THR RWY35, 110M Left Side RWY35 Centreline. Lighted
3	TWY edge and centre line lighting	All taxiways, only centre line
4	Secondary power supply/switch-over time	Secondary Power Supply conforms requirements of Annex 14.
5	Remarks	Emergency lights available for Runway, Taxiways and Aprons.

### LPPR AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO	Not established
2	TLOF and/or FATO elevation	Not established
3	TLOF and FATO area dimensions, surface, strength, marking	Not established
4	True BRG of FATO	Not established
5	Declared distance available	Not established
6	APCH and FATO lighting	Not established
7	Remarks	NIL

### LPPR AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	PORTO CTR 412300N 0085100W - 412300N 0083501W - 410400N 0083005W - 410400N 0084559W - 412300N 0085100W
2	Vertical limits	2000FT ALT (600M)
3	Airspace classification	C
4	ATS unit call sign / Language(s)	Porto Approach Porto Tower EN, PT

5	Transition altitude	4000FT
6	Remarks	NIL

**LPPR AD 2.18 ATS COMMUNICATION FACILITIES**

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
APP	PORTO CONTROL	120.430 MHZ	HO	
	PORTO APPROACH	120.910 MHZ 120.430 MHZ	HO	PRIMARY SECONDARY
	PORTO INFORMATION	118.885 MHZ	HO	
TWR	PORTO TOWER	118.005 MHZ 118.885 MHZ	H24	PRIMARY SECONDARY
SMC	PORTO GROUND	121.040 MHZ 118.885 MHZ	Broadcast by ATIS	PRIMARY SECONDARY
CLEARANCE DELIVERY	PORTO DELIVERY	118.930 MHZ 118.855 MHZ	Broadcast by ATIS	PRIMARY SECONDARY
ATIS	PORTO INFORMATION	124.305 MHZ (arrivals) 121.680 MHZ (departures)	H24	ATIS Service also available by ACARS for aircraft equipped with ACARS Management Unit. Providers are SITA for datalink communications and PORTO Control for ATIS Services. Telephone Service: +351 229408074 or 2174 of NAV Portugal E.P.E. internal network.
		121.500 MHZ	H24	EMERGENCY
		243.000 MHZ		
		277.800 MHZ		

**LPPR AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

Type Category (MAG Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DVOR/DME (02° W - 2020)	PRT	114.100 MHZ DME: CH 88X	H24	DVOR: 411622.8N 0084116.2W DME: 411622.7N 0084116.7W	200FT	Coverage: 225°/315° - 200NM FL500 315°/225° - 80NM FL500 Not usable: 340°/360° BYD 35NM DME unlocks at 26NM on RDL086
ILS RWY 17 (CAT II/T/4)						
LOC (02° W - 2020)	PR	109.900 MHZ	H24	411348.2N 0084035.5W		Front course sector: Angle 3.52°
GP/DME	PR	333.800 MHZ DME: CH 36X	H24	411529.4N 0084057.2W	200FT	GP: Angle 2.72° Zero range is indicated at THR RWY 17 only.
OM	Dashes	75 MHZ	H24	412052.8N 0084227.1W		5.35NM from THR RWY 17 Intersect HGT: 1586FT

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**LPPR AD 2.20 LOCAL AERODROME REGULATIONS**

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**1. Limitations on use of aerodrome**

Restricted to ACFT capable of maintaining two way communications with Porto TWR.

For Aerodrome Slot request see GEN 1.2 Mandatory for all flights.

**2. Radio communication**

Continuous two way as prescribed in airspace classification C possessions (see ENR 1.4 paragraph [CLASS C - CONTROLLED AIRSPACE](#)).

Immediately after Take-off all aircraft shall contact Porto APP, unless otherwise instructed by Porto Tower.

**3. ATC Clearance**

Departing traffic shall contact Porto Tower or Porto Delivery, as broadcast by ATIS, 10 minutes before start-up for ATC Clearance.

Traffic shall provide the following information:

- Aircraft identification;
- Parking position;
- ATIS ACK.

**4. Parking, Push-Back, Engine start-up and Taxi procedures****4.1 Surveillance**

Porto Airport is equipped with a Surface Surveillance System using Mode-S Multilateration: Aircraft operators intending to use Porto Airport shall ensure that the Mode S transponders are able to operate when the aircraft is on the ground. Pilots shall select Auto Mode and assigned Mode A code. If Auto Mode is not available select ON and assigned Mode A code:

- from the clearance for push-back or taxi whichever is earlier;
- after landing, continuously until the aircraft is parked on stand;
- when parked on stand select STBY or OFF.

Whenever the aircraft is capable of reporting aircraft identification, the aircraft identification should be entered from the request for push-back or taxi whichever is earlier (through the FMS or the transponder control panel). Air Crew must use ICAO defined format for entry of the aircraft identification.

To ensure that the performance of systems based on SSR frequencies (including airborne TCAS units and SSR radars) is not compromised, TCAS should be selected when approaching the holding point. It should then be deselected after vacating the runway.

For aircraft taxiing without flight plan, Mode A code 2000 should be selected.

**4.2 Aircraft towing procedures**

Aircraft that are to be towed to another stand or to/from the maintenance areas, or to/from temporary parking areas, must have the transponder set to the appropriate Mode/code in order that the aircraft's registration number is displayed on the ATC radar screen.

From the time of the request for push-back or tow, until the aircraft is fully parked on stand, the transponder must be switched on with the Mode A code 2000 selected. Dependent on the type of aircraft, the transponder must either be switched to 'Alt-Off', 'X-pndr' or 'Auto' to display the aircraft registration.

**4.3 Push-Back, Engine start-up**

Aircraft parked in a nose position only allowed outgoing with push-back. Use of reverse thrust for manoeuvring to and from a stand is not permitted.

Aircraft in contiguous stands are not allowed to move simultaneously.

Engine start-up is only permitted after push-back manoeuvre with Aircraft positioned in proper breakaway area (see table below). Breakaway areas markings are white triangles painted near the Taxiway Centre Line.

Whenever an ACFT APU is inoperative or not available, one engine start-up is permitted on a nose in stand before starting push-back manoeuvring; in these circumstances Porto Control Tower must be advised and the start-up procedures will be assisted by Follow-Me.

Anti-collision lights must be activated whenever engines are operating and during push-back manoeuvre.

#### 4.4. Taxi procedures

Aircraft landing on RWY 17 must not vacate the runway by taxiway A3, unless cleared by ATC.

When RWY 17 in use, aircraft taxiing from Apron S via TWY E5 or G shall expect intersection E5 or G for departure. If unable advise ATC before starting taxi.

When RWY 35 in use, aircraft taxiing from Apron S via TWY C or D shall expect intersection C or D for departure. If unable advise ATC before starting taxi.

Reduced Engine Taxi is not allowed:

- for any aircraft reaching the holding point for line-up;
- for any aircraft reaching the holding point required to cross an active runway.

Taxiing in Apron and adjacent Taxiways/Taxilanes must be done with engines on IDLE.

Standard push-back (see table below):

STAND	RWY 17 EXIT BY TWY "E"		RWY 35 EXIT BY TWY "B"	
	BREAKAWAY AREA/ POINT	ACFT NOSE	BREAKAWAY AREA/ POINT	ACFT NOSE
S08	S1	North	S1	North
S09	S1 ACFT Code C	North	S1 ACFT Code C	North
	S2 ACFT Code D and E	North	S2 ACFT Code D and E	South
S10	S1	North	S1	North
S11	S1 ACFT code C	North	S1 ACFT Code C	North
	S2 ACFT Code D and E	North	S2 ACFT Code D and E	South
S12	S2	North	S2	South
S20	S2	North	S2	South
S21	S2	North	S2	South
S22	S2	North	S2	South
S23	S2	North	S2	South
S24	S2	North	S2	South
S25	S2	North	S2	South
S30	S2	North	S3	South
S31	S3	North	S3	South
S32	S3	North	S3	South
S33	S3	North	S3	South
S34	S3	North	S3	South
S35	S3	North	S3	South
S36	S3	North	S3	South
S37	S3	North	S4	South
S38	S3	North	S4	South
S40	S4	North	S4	South
S41	S4	North	S4	South
S42	S4	North	S4	South
S43	S4	North	S4	South
S50	S4	North	S4	South

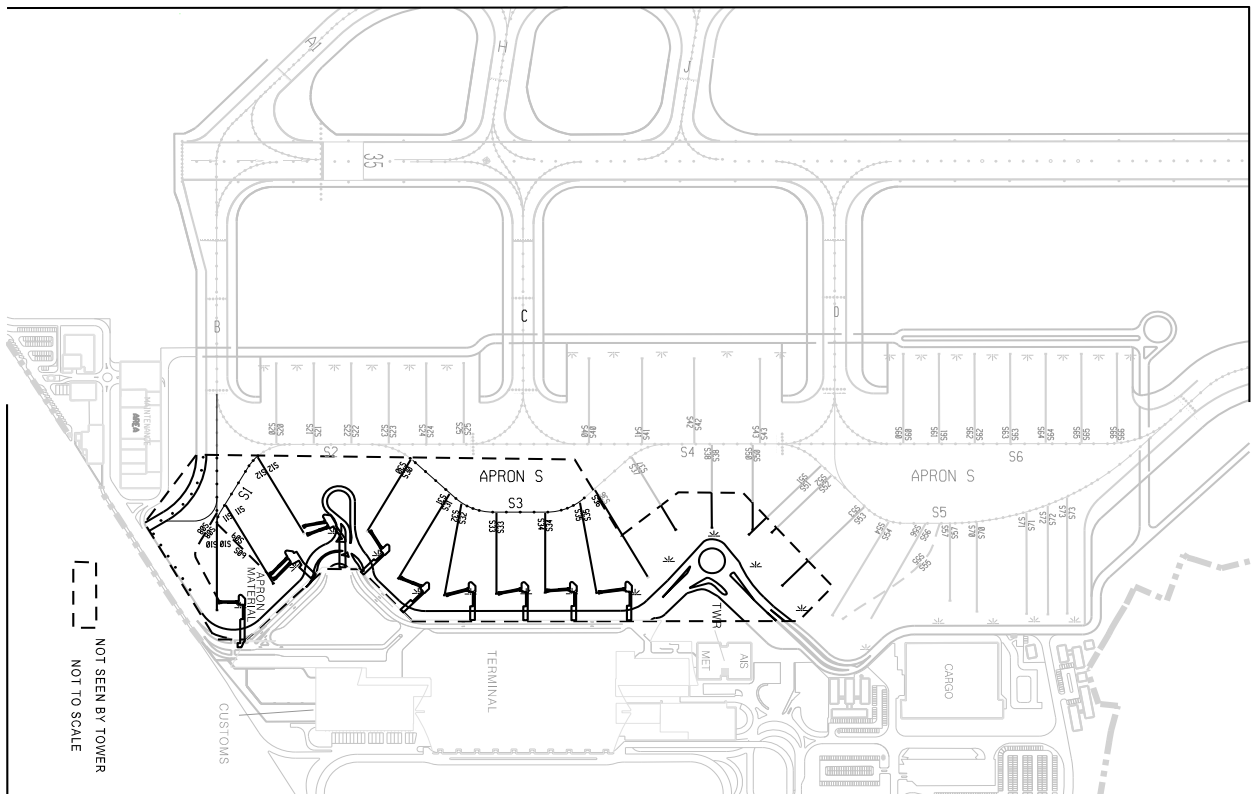


S51	S4	North	S5	South
S52	S4	North	S5	South
S53	S5	North	S5	South
S54	S5	North	S5	South
S55	S5	North	S5	South
S56	S5	North	S5	South
S57	S5	North	S5	South
S60	S6	North	S6	South
S61	S6	North	S6	South
S62	S6	North	S6	South
S63	S6	North	S6	South
S64	S6	North	S6	South
S65	S6	North	S6	South
S66	S6	North	S6	South
S70	S5	North	S5	South
S71	S5	North	S5	South
S72	S5	North	S5	South
S73	S5	North	S5	South
T01	T	South	T	South
T02	T	South	T	South
T03	T	South	T	South
T04	T	South	T	South

4.5. Areas not seen by Tower

First 1500M of RWY 17 and last 1500M of RWY 35 not clearly visible from TWR.  
AD circuit - right Base Leg RWY 35 not visible by TWR.

Stands not seen by Tower are S08 up to S12, and S30 up to S35. Apron Taxiways S1 and S3



4.6. **Taxiing**

Standard Taxi Routes (see table below):

TWY to the West of the RWY: A1, A2, A3, H, J, Y. TWY to the East of the RWY: B, C, D, E1, E2, E3, E4, E5, F1, G.

RWY 17 - NVO			
ARRIVAL RWY 17		DEPARTURE RWY 17	
Destination STAND / APRON	Standard taxi route	Taxi from STAND / APRON	Standard taxi route
S08 - S12	B, S1	S08 - S12	S1, S2, S4, S6, E1, E2, E3, E4, E5
S20 - S25	B, S2	S20 - S25	S2, S4, S6, E1, E2, E3, E4, E5
S30 - S37	B, S2, S3	S30 - S37	S3, S4, S6, E1, E2, E3, E4, E5
S38 - S50	C, S4	S38 - S50	S4, S6, E1, E2, E3, E4, E5
S40 - S43	C, S4	S40 - S43	S4, S6, E1, E2, E3, E4, E5
S51 - S57, S70 - S73	C, S4, S5	S51 - S57, S70 - S73	S5, E1, E2, E3, E4, E5
S60 - S66	D, S6	S60 - S66	S6, E1, E2, E3, E4, E5
T01 - T04	J, Y, T	T01 - T04	T, Y, A3
W	H	W	A2, A3

RWY 17 - LVP			
ARRIVAL RWY 17 - LVP		DEPARTURE RWY 17 - LVP	
Destination STAND / APRON	Standard taxi route	Taxi from STAND / APRON	Standard taxi route
S08 - S12	B, S1	S08 - S12	S1, S2, S4, S6, E1, E2, E3, E4
S20 - S25	B, S2	S20 - S25	S2, S4, S6, E1, E2, E3, E4
S30 - S37	B, S2, S3	S30 - S37	S3, S4, S6, E1, E2, E3, E4
S38 - S50	B, S2, S4	S38 - S50	S4, S6, E1, E2, E3, E4
S40 - S43	B, S2, S4	S40 - S43	S4, S6, E1, E2, E3, E4
S51 - S57, S70 - S73	B, S2, S4, S5	S51 - S57, S70 - S73	S5, E1, E2, E3, E4
S60 - S66	B, S2, S4, S6	S60 - S66	S6, E1, E2, E3, E4
T01 - T04	J, Y, T	T01 - T04	T, Y, A3
W	H	W	A2, A3

RWY 35 - NVO			
ARRIVAL RWY 35		DEPARTURE RWY 35	
Destination STAND / APRON	Standard taxi route	Taxi from STAND / APRON	Standard taxi route
S08 - S12	F1, E3, E2, E1, S6, S4, S2, S1	S08 - S12	S1, B
S08 - S12 (Heavy ACFT)	A3, A2, A1	S20 - S25	S2, B
S20 - S25	F1, E3, E2, E1, S6, S4, S2	S30 - S37	S3, S2, B
S30 - S37	F1, E3, E2, E1, S6, S4, S3	S38 - S50	S4, S2, B
S38 - S50	F1, E3, E2, E1, S6, S4	S40 - S43	S4, S2, B
S40 - S43	F1, E3, E2, E1, S6, S4	S51 - S57, S70 - S73	S5, S4, S2, B
S51 - S57, S70 - S73	F1, E3, E2, E1, S5	S60 - S66	S6, S4, S2, B
S60 - S66	F1, E3, E2, E1, S6	T01 - T04	T, Y, A2, A1
T01 - T04	A3, Y, T	W	A1
W	A3, A2	-	-

Taxiways B, C, D, E, Y, Apron TWY T and Apron W are crossed by service roads

4.7. **Follow-Me and Marshaller assistance**

Follow-Me and Marshaller assistance is compulsory:

- During Push-back movement under CAT II operations;
- On stands without APIS.

**5. Limitations on runway usage**

It is mandatory for aircraft aerodrome reference code D and E to use RWY 17/35 full length for departures.

**6. Use of Ground Power Unit (GPU), use of Auxiliary Power Unit (APU)****6.1 Use of GPU**

The use of mobile autonomous GPU is not allowed when ACFT are using Apron Drive Loading Bridges, except if GPU system is unserviceable.

**6.2 Use of APU**

Start-up or shut-down of the APU is forbidden while the Aircraft is being refuelled.

The use of APU must be limited as much as possible.

Narrow-Body ACFT are allowed to use APU until 5 minutes after "chocks on" and 10 minutes before ETD.

Wide-Body ACFT are allowed to use APU until 10 minutes after "chocks on" and 20 minutes before ETD.

EXEMPTIONS: If air conditioning system at the Loading Bridge is unserviceable.

**7. ILS CAT I/II operations****ILS approach**

In principle final approaches will be conducted on RWY 17 ILS.

**ILS operations****Facilities**

The following facilities serving ILS operations are available:

- CAT II lighting system on RWY 17. See LPPR AD 2.14.
- RVR assessment system, comprising transmissometers at TDZ, mid-point and stop-end, indicated as position A, B and C respectively. See LPPR AD 2.24.01-1
- Secondary PWR supply (See LPPR AD 2.15).

A change in operation, if caused by a failure expected to last more than one hour, will be notified by NOTAM. Pilots will be notified of shorter-term deficiencies by ATC.

Precision Approach Terrain Chart. See LPPR AD 2.24.06-1

Obstacle Clearance Altitudes / Heights (OCA/H). See relevant Instrument Approach Charts.

**ATC Procedures**

- a. ATC will apply safeguards and procedures for ILS operations that will become effective in relation to WX conditions as specified below.
- b. When the visibility is less than 2500M and / or the cloud base is below 400 FT, ATC will instruct TFC to perform ILS approaches to RWY 17.
- c. Low Visibility Procedures:  
When the TDZ RVR is 550M or less, or the cloud base is at 200FT or below, ATC will ensure that the ILS protection area is clear of (known) TFC before issuing the LDG clearance (never after the 4 NM final).
- d. Low Visibility Take-Off Procedures - RWY 17 - RVR at or above 125M and below 400M.
- e. RVR Information:  
ATC will always give the RVR value for position ALPHA (TDZ). As for either of the two other positions, BRAVO and CHARLIE, ATC will only give their RVR value if they are:
  - less than the TDZ and less than 550M; or
  - less than 350M, or

- requested by the pilot
- f. Surface Surveillance System (SMR) is available to ATC.

#### **Clearances**

The above weather conditions and related safeguards are chosen so as to facilitate CAT I and CAT II operations respectively.

During approach, pilots will be informed of:

- any known unserviceability and/or downgrading of aids or facilities referred on the above paragraph, when applicable.
- significant changes in surface wind (speed and direction).
- changes in RVR

#### **CAT II Standard Taxi Routes**

See table on paragraph 4.4.

#### **Practice ILS Approaches**

Pilots who wish to practice ILS CAT II approaches are to use the phrase "REQUEST PRACTICE CAT II APPROACH", on initial CTC with PORTO APP.

The measures mentioned above on paragraph "ATC Procedures", Item c and Item b, will not be applied. Item d will be applied only when TFC permits.

#### **Holding awaiting weather improvement**

ACFT awaiting WX improvement in HLDG area will be stacked FM FL60 upward.

When approaches are possible again, new slots will be assigned, based on the original sequence of arrival

The sequence may be adjusted in order to provide for differences in LDGS criteria e.g. ILS CAT II approaches against ILS CAT I approaches.

ATC may initially allocate more favourable (higher) HLDG levels when the number and type of ACFT involved in HLDG allows this procedure.

### **8. Handling services**

All general aviation aircraft are parked in remote stands, which require transportation to terminal building and ARO/METEO offices. The only entities authorized to provide transportation are the handling agents mentioned below.

All commercial aircraft operating in Porto Aerodrome must be represented by one of the agents mentioned on the list below:

#### **Authorized Full Handling Agents:**

##### **Groundforce**

Phone: (Station Manager) +351 961344797  
Phone: (HOC) +351 961705962  
Phone: +351 229432400 (Ext. 42775)  
SITA: OPOJXXH  
SITA: OPOSCXH  
Email: hoc.opo@groundforce.pt  
Email: stationmanager.opo@groundforce.pt  
VHF: 131.900 MHZ

##### **OMNI Handling**

Phone: +351 229432435  
Phone: (mobile) +351 915220210  
Fax: +351 229432436  
Email: opo@omnihandling.com  
URL: <http://www.omnihandling.com>  
VHF: 131.900 MHZ

**Portway – Handling de Portugal, SA**

Phone: +351 229432541  
 Fax: +351 229432487  
 SITA: OPOKLXH  
 SITA:OPOKOXH  
 Email: operacoes.opo@portway.pt  
 VHF: 131.875 MHZ

**Authorized Handling Supervising Agents:****Sky Valet**

Phone:+351 220975399  
 Phone: (mobile) +351 910991079  
 Fax: +351 220922355  
 URL: http://skyvalet.com  
 Email: lprr@jetbase.biz

**Authorized Handling Passenger Assistance and Supervising Agents:****LGSP - Lufthansa Ground Services Portugal**

Phone: +351 229437900  
 Phone: (mobile) +351 961447436  
 Fax: +351 229410520  
 Email: oposm@lufthansa-group.com  
 SITA: OPOSTLH

**Safeport Executive**

Phone: +351 220987600  
 Phone: +351 912176672 (mobile)  
 Fax: +351 220987600  
 Email: oporto@safeport.aero

**9. Engine test runs**

Engine test runs in idle power may take place on stands.

Engine test runs above idle power will take place in a location designated by Airport Operations Service. Test runs are allowed from 0600 to 2400 (0500 to 2300) on the condition that a previous authorization was obtained from Airport Operations Service. Operators shall indicate the real time of start and duration of the test.

**LPPR AD 2.21 NOISE ABATEMENT PROCEDURES****1. GENERAL**

Landing and/or take-off is forbidden by law between 00:00 (23:00) and 06:00 (05:00), except in cases of force majeure. However, according to governmental deliberation, exception regime has been granted for Porto Airport in which landing and/or take-off of aircraft engaged in commercial aviation or aerial work are allowed in a limited number.

**The authorisation for air movements during this period is conditioned to:**

1. The maximum number of movements allowed (11 daily, 70 weekly, 2.100 yearly)
2. The noise level of the aircraft concerned, in compliance with ICAO:

Level 0	below 87 EPNdB
Level 0,5	between 87 EPNdB and 89,9 EPNdB
Level 1	between 90 EPNdB and 92,9 EPNdB
Level 2	between 93 EPNdB and 95,9 EPNdB
Level 4	between 96 EPNdB and 98,9 EPNdB
Level 8	between 99 EPNdB and 101,9 EPNdB
Level 16	above 101,9 EPNdB

- a. Aircraft classified Level 16, cannot be scheduled between 00:00 (23:00) and 06:00 (05:00);
- b. Aircraft classified Levels 4 and 8, cannot be scheduled between 02:00 (01:00) and 05:00 (04:00);
3. Aircraft authorised to land during the night period are strictly forbidden to reverse thrust right after landing;
4. The operating restrictions set out in Item 1 shall not apply to the following cases of force majeure:
  - a. Aircraft operating humanitarian, emergency or evacuation missions;
  - b. Aircraft to come across urgent situations, taking in account weather, technical failure or flight safety reasons;
  - c. Air movements subject to an unforeseen schedule alteration due to abnormal disturbance within Air Traffic Control;
  - d. Air movements operated up to 01:00 (00:00) which were actually scheduled for periods up to 00:00 (23:00), due to delays for which neither the Airport Management Company nor the Operator were to blame;
  - e. Air movements from/to Autonomous Regions of Madeira and Azores, due to meteorological conditions;
  - f. Landings operated during the period comprised between 05:00 (04:00) and 06:00 (05:00), due to weather reasons, as far as the arrival had been scheduled for a time after 06:00 (05:00).
5. For the purpose of compliance with provision of Item 2 above, the operator shall, when applying for a slot provide the information contained in the aircraft manufacturer's noise certificate.
6. Noise abatement procedures during approach, landing and take-off shall comply with standards and procedures set in ICAO PANSOPS Volume I and Portuguese AIP.
7. Aircraft authorised to land and take-off shall comply with technical characteristics according to ICAO Annex 16 Volume I, Chapter 3 and Portuguese AIP:
  - a. For landing: Approach to landing MS 9 equal X EPNdB
  - b. For Take-off: (take-off PS side-line) / 2 equal X EPNdB

**Note:** Information contained in the ACFT manufacturer's noise data, except for aircraft registered in EU Member-States, in which applies the data contained in the EASA Form 45 Noise Certificate issued by the competent Authority of the respective Member-State.

**2. Penalties for non-compliance with slot allocation rules during the night period.**

Penalties for these offences are specified in f) and g), paragraph 2, article 28 of Decree Law 9/2007.

**LPPR AD 2.22 FLIGHT PROCEDURES**

**1. STANDARD INSTRUMENT DEPARTURES FROM PORTO (FRANCISCO SA CARNEIRO) AERODROME**

GENERAL REMARKS:

NIL

NOISE ABATEMENT PROCEDURES:

In accordance with Item LPPR AD 2.21.

RADAR VECTORING:

Radar Vectoring involving deviation from SID may be used by Porto Approach to expedite traffic.

RADIO COMMUNICATIONS FAILURE:

In the event of RCF squawk A7600;

1. Fly at/to the last assigned and acknowledged level or to the level of SID if is higher than the last assigned level until passing 30 NM DME PRT DVOR/DME;
2. Thereafter adjust level and speed in accordance with the filed flight plan;
3. If being radar vectored or proceeding offset, when passing 30 NM DME PRT DVOR/DME, rejoin the current flight plan route and proceed in accordance with § 2 above.

4. If cleared DCT to..., fly at/to the assigned and acknowledged level or to F100, whichever is higher, until passing 30 NM DME PRT DVOR/DME, maintain the current flight plan route and proceed in accordance with § 2 above.

STANDARD INSTRUMENT DEPARTURE (SID) DESCRIPTION: See back of charts LPPR AD 2.24.08-1 and LPPR AD 2.24.08-3

## 2. FMS RNAV DEPARTURE ROUTES FROM PORTO (FRANCISCO SA CARNEIRO) AERODROME

### GENERAL PROCEDURES:

If unable to comply with these FMS RNAV Departure Routes, advise ATC.

### NOISE ABATEMENT PROCEDURES:

In accordance with Item LPPR AD 2.21.

### RADAR VECTORING:

Radar Vectoring involving deviation from SID may be used by Porto Approach to expedite traffic.

### RADIO COMMUNICATIONS FAILURE:

In the event of RCF squawk A7600:

1. Fly at/to the last assigned and acknowledged level or to the level of SID if is higher than the last assigned level until passing 30 NM DME PRT DVOR/DME;
2. Thereafter adjust level and speed in accordance with the filed flight plan;
3. If being radar vectored or proceeding offset, when passing 30 NM DME PRT DVOR/DME, rejoin the current flight plan route and proceed in accordance with § 2 above.
4. If cleared DCT to..., fly at/to the assigned and acknowledged level or to F100, whichever is higher, until passing 30 NM DME PRT DVOR/DME, maintain the current flight plan route and proceed in accordance with § 2 above.

FMS RNAV DEPARTURE ROUTES (SID) DESCRIPTION: See back of charts LPPR AD 2.24.08-5 and LPPR AD 2.24.08-7

## 3. STANDARD INSTRUMENT ARRIVALS TO PORTO (FRANCISCO SA CARNEIRO) AERODROME

NIL

## 4. FMS RNAV ARRIVAL ROUTES TO PORTO (FRANCISCO SA CARNEIRO) AERODROME

### 4.1 RUNWAY 17

#### GENERAL REMARKS:

To shorten these FMS RNAV Arrival Procedures, radar vectors or instructions to follow specific way points shall be expected.

#### SPEED ADJUSTMENT:

See ENR Section 1.5, Sub-section 1.5.4 paragraph 2a).

#### RADIO COMMUNICATIONS FAILURE:

In the event of RCF squawk 7600, fly DCT at/to the last assigned level to ADNOV holding pattern regardless published FL, and at ETA according to CPL or at EAT (when received and acknowledged) start descent to initial approach altitude to carry out a standard IFR Approach according to IAC.

In the event of RCF after the clearance for the Final Approach, proceed for landing

FMS RNAV ARRIVAL ROUTES (STAR) DESCRIPTION: See back of chart LPPR AD 2.24.10-1

### 4.2 RUNWAY 35

#### GENERAL REMARKS:

To shorten these FMS RNAV Arrival Procedures, radar vectors or instructions to follow specific way points shall be expected.

#### SPEED ADJUSTMENT:

See ENR Section 1.5, Sub-section 1.5.4 paragraph 2a).

#### RADIO COMMUNICATIONS FAILURE:

In the event of RCF squawk 7600, fly DCT at/to the last assigned level to AKULU holding pattern regardless published FL, and at ETA according to CPL or at EAT (when received and acknowledged) start descent to initial approach altitude to carry out a standard IFR Approach according to IAC.

In the event of RCF after the clearance for the Final Approach, proceed for landing.

FMS RNAV ARRIVAL ROUTES (STAR) DESCRIPTION: See Back of chart LPPR AD 2.24.10-3

**5. EAT Calculation Method**

Expected Approach Time (EAT) to Porto AD is calculated to the IAF of the procedure to be used, regardless of Holding Pattern used.

**6. Visual Approaches**

Unless otherwise instructed by ATC, the missed approach procedure for visual approaches is the same as the instrument missed approach procedure broadcast by ATIS or defined by ATC.

If unable advice ATC.

See visual approach procedure chart.

**7. Holding Procedures**

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
ADNOV ADNOV 413106N0084511W	170°	RIGHT	230	4000 FT ALT FL 140	1 MIN
ADNOV ADNOV 413106N0084511W	170°	RIGHT	240	FL 150 FL 240	1.5 MIN
ADNOV ADNOV 413106N0084511W RDL350-DME15 PRT DVOR/DME	170°	RIGHT	230	4000 FT ALT FL 140	5 NM
ADNOV ADNOV 413106N0084511W RDL350-DME15 PRT DVOR/DME	170°	RIGHT	240	FL 150 FL 240	9.5 NM
AKULU AKULU 405903N0083643W	351°	LEFT	230	4000 FT ALT FL 140	1 MIN
AKULU AKULU 405903N0083643W	351°	LEFT	240	FL 150 FL 240	1.5 MIN
AKULU AKULU 405903N0083643W RDL171-DME17.7 PRT DVOR/DME	351°	LEFT	230	4000 FT ALT FL 140	5 NM
AKULU AKULU 405903N0083643W RDL171-DME17.7 PRT DVOR/DME	351°	LEFT	240	FL 150 FL 240	9.5 NM
DIVUT DIVUT 410143N0081933W RDL133-DME22 PRT DVOR/DME	313°	LEFT	230	FL 080 FL 140	5 NM
DIVUT DIVUT 410143N0081933W RDL133-DME22 PRT DVOR/DME	313°	LEFT	240	FL 150 FL 240	9.5 NM
PORTO/PRT PORTO DVOR/DME 411623N0084116W	171°	RIGHT	230	4000 FT ALT FL 140	1 MIN



HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
PORTO/PRT PORTO DVOR/DME 411623N0084116W	171°	RIGHT	240	FL 150 FL 240	1.5 MIN
RETMO RETMO 411340N0090050W RDL262-D15 PRT DVOR/DME	082°	RIGHT	230	FL060 FL140	5 NM
RETMO RETMO 411340N0090050W RDL262-D15 PRT DVOR/DME	082°	RIGHT	240	FL150 FL240	9.5 NM
RETMO RETMO 411340N0090050W	082°	RIGHT	230	FL060 FL140	1 MIN
RETMO RETMO 411340N0090050W	082°	RIGHT	240	FL150 FL240	1.5 MIN
VASIP VASIP 413318N0082234W RDL041-DME22 PRT DVOR/DME	221°	LEFT	230	FL 080 FL 140	8 NM
VASIP VASIP 413318N0082234W RDL041-DME22 PRT DVOR/DME	221°	LEFT	240	FL 150 FL 240	9.5 NM

### LPPR AD 2.23 ADDITIONAL INFORMATION

#### 1. Bird activity and patterns

Flocks of birds with significant activity occur daily at the airport and on the vicinity. Some species groups, like sea gulls (larus sp. and larus fuscus) cross the aerodrome field area from EAST to WEST and vice-versa during morning and evening periods.

#### 2. Bird hazard warning

Bird scaring is accomplished by use of gas cannon units and scarecrow devices, installed along runway strip. The gas cannons are activated whenever birds are detected. The scarecrow devices operate permanently and an additional portable unit is available to be used whenever required.

Pilots are advised that birds may not always be promptly detected. Caution requested during approach and take-off.

#### 3. Grass cutting

Grass cutting will take place along Strip RWY 17/35, Tuesday to Saturday from 00:00-05:00 (23:00-04:00). Men and equipment under Tower control and airport authority supervision.

### LPPR AD 2.24 CHARTS RELATED TO THE AERODROME

Name	Page
AERODROME CHART- ICAO	LPPR AD 2.24.01-1
AIRCRAFT PARKING/DOCKING CHART-ICAO (APRON S)	LPPR AD 2.24.02-1
AIRCRAFT PARKING/DOCKING CHART-ICAO (APRON T and W)	LPPR AD 2.24.02-3
AERODROME OBSTACLE CHART-ICAO – RWY17/35	LPPR AD 2.24.04-1
PRECISION APPROACH TERRAIN CHART-ICAO – RWY17	LPPR AD 2.24.06-1
STANDARD DEPARTURE INSTRUMENT (SID) – RWY17	LPPR AD 2.24.08-1

Name	Page
STANDARD DEPARTURE INSTRUMENT (SID) – RWY35	LPPR AD 2.24.08-3
STANDARD DEPARTURE INSTRUMENT CHART (SID) RNAV RWY 17	LPPR AD 2.24.08-5
STANDARD DEPARTURE INSTRUMENT CHART (SID) RNAV RWY 35	LPPR AD 2.24.08-7
STANDARD ARRIVAL INSTRUMENT (STAR) - RNAV RWY 17	LPPR AD 2.24.10-1
STANDARD ARRIVAL INSTRUMENT (STAR) - RNAV RWY 35	LPPR AD 2.24.10-3
ATC SURVEILLANCE MINIMUM ALTITUDE CHART-ICAO	LPPR AD 2.24.11-1
INSTRUMENT APPROACH CHART-ICAO – ILS RWY17 CAT A-B	LPPR AD 2.24.12-1
INSTRUMENT APPROACH CHART-ICAO – ILS RWY17 CAT C-D	LPPR AD 2.24.12-3
INSTRUMENT APPROACH CHART-ICAO – DVOR RWY17 CAT A-B-C-D	LPPR AD 2.24.12-5
INSTRUMENT APPROACH CHART-ICAO – DVOR RWY 35 CAT A-B-C-D	LPPR AD 2.24.12-7
INSTRUMENT APPROACH CHART-ICAO – RNP RWY 35	LPPR AD 2.24.12-9
VISUAL APPROACH CHART-ICAO	LPPR AD 2.24.13-1

AERODROME CHART - ICAO

41°14'08"N  
008°40'41"W

ELEV 69 m

PORTO ARR INFORMATION 124.305  
PORTO DEP INFORMATION 121.680

PORTO GROUND 121.040  
PORTO DELIVERY 118.930  
PORTO TOWER 118.005

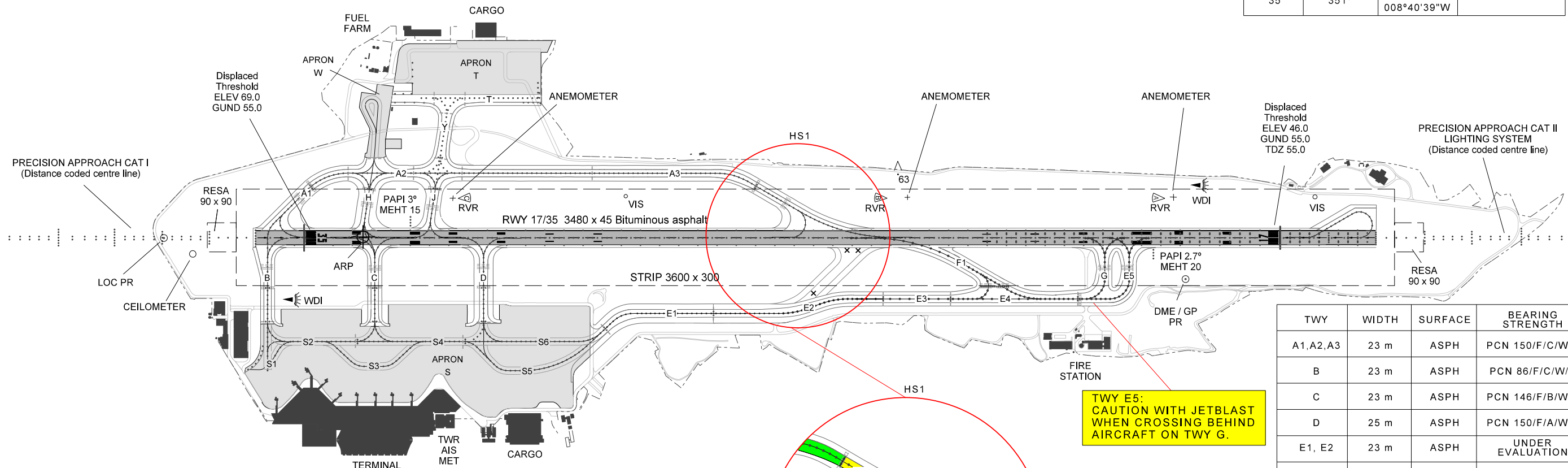
PORTO, Francisco Sá Carneiro (LPPR)

ELEVATIONS AND DIMENSIONS IN METRES  
BEARING ARE MAGNETIC

VAR 02° W 2020  
ANNUAL CHANGE 11' E

APRON	SURFACE	BEARING STRENGTH
S	CONC	PCN 71/R/B/W/T
T	CONC	PCN 91/R/B/W/T
W	ASPH	PCN 109/F/B/W/T

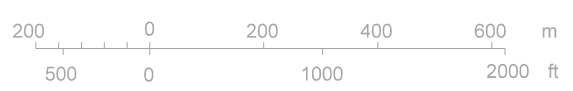
RWY	DIRECTION	THR COORD	BEARING STRENGTH
17	171°	41°15'38"N 008°41'04"W	PCN 80/F/C/W/T
35	351°	41°14'02"N 008°40'39"W	



**TWY E5:**  
CAUTION WITH JETBLAST  
WHEN CROSSING BEHIND  
AIRCRAFT ON TWY G.

**HS1:**  
CAUTION, AIRCRAFT LANDING  
ON RWY17, MUST NOT VACATE  
THE RWY VIA TWY A3, UNLESS  
CLEARED BY ATC.

LEGEND		
RWY- holding position marking	Precision APCH RWY CATII/ III	
	Non-precision and precision APCH RWY CAT I	
Intermediate holding position marking		
TWY centre line marking		
TWY and RWY lights		
Stop bar lights		
RWY incursion Hotspot		



TWY	WIDTH	SURFACE	BEARING STRENGTH
A1,A2,A3	23 m	ASPH	PCN 150/F/C/W/T
B	23 m	ASPH	PCN 86/F/C/W/T
C	23 m	ASPH	PCN 146/F/B/W/T
D	25 m	ASPH	PCN 150/F/A/W/T
E1, E2	23 m	ASPH	UNDER EVALUATION
E3,E4,E5	23 m	ASPH	PCN 138/F/B/W/T
F1	23 m	ASPH	PCN 190/F/A/W/T
G	23 m	ASPH	PCN 188/F/A/W/T
H	23 m	ASPH	PCN 150/F/B/W/T
J	23 m	ASPH	PCN 150/F/B/W/T
S1,S2	23 m	ASPH	PCN 86/F/C/W/T
S3,S4,S6	23 m	ASPH	PCN 131/F/B/W/T
S5	25 m	ASPH	PCN 131/F/B/W/T
T	23 m	ASPH	PCN 150/F/B/W/T
Y	23 m	ASPH	PCN 149/F/B/W/T

new ground service.

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AIRCRAFT PARKING  
DOCKING CHART - ICAO

APRON S  
ELEV 72 m

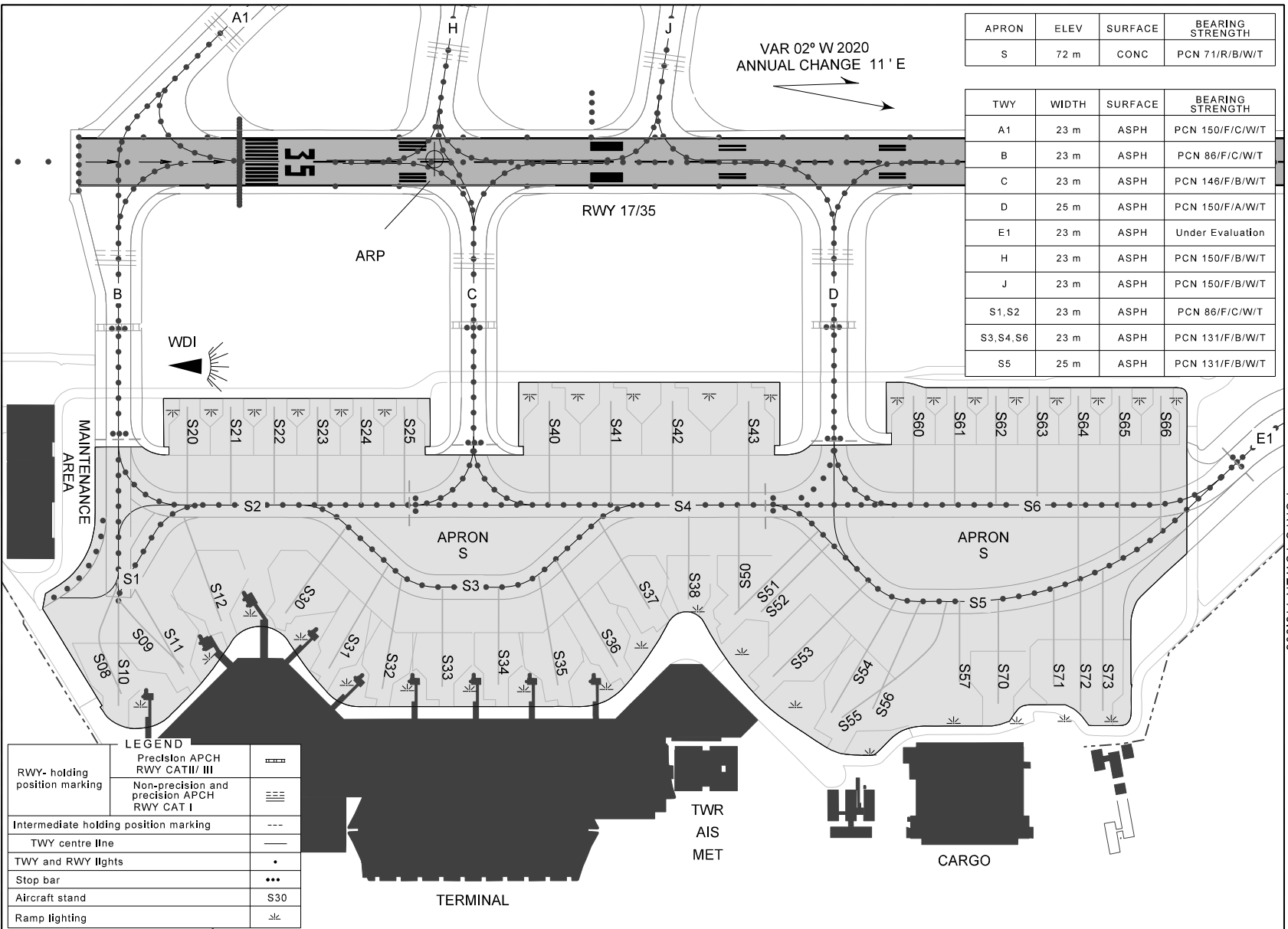
PORTO ARR INFORMATION 124.305  
PORTO DEP INFO INFORMATION 121.680  
PORTO DELIVERY 118.930  
PORTO GROUND 121.040  
PORTO TOWER 118.005

Porto, Francisco Sá Carneiro  
(LPPR)

APRON	ELEV	SURFACE	BEARING STRENGTH
S	72 m	CONC	PCN 71/R/B/W/T

TWY	WIDTH	SURFACE	BEARING STRENGTH
A1	23 m	ASPH	PCN 150/F/C/W/T
B	23 m	ASPH	PCN 86/F/C/W/T
C	23 m	ASPH	PCN 146/F/B/W/T
D	25 m	ASPH	PCN 150/F/A/W/T
E1	23 m	ASPH	Under Evaluation
H	23 m	ASPH	PCN 150/F/B/W/T
J	23 m	ASPH	PCN 150/F/B/W/T
S1,S2	23 m	ASPH	PCN 86/F/C/W/T
S3,S4,S6	23 m	ASPH	PCN 131/F/B/W/T
S5	25 m	ASPH	PCN 131/F/B/W/T



new ground service.

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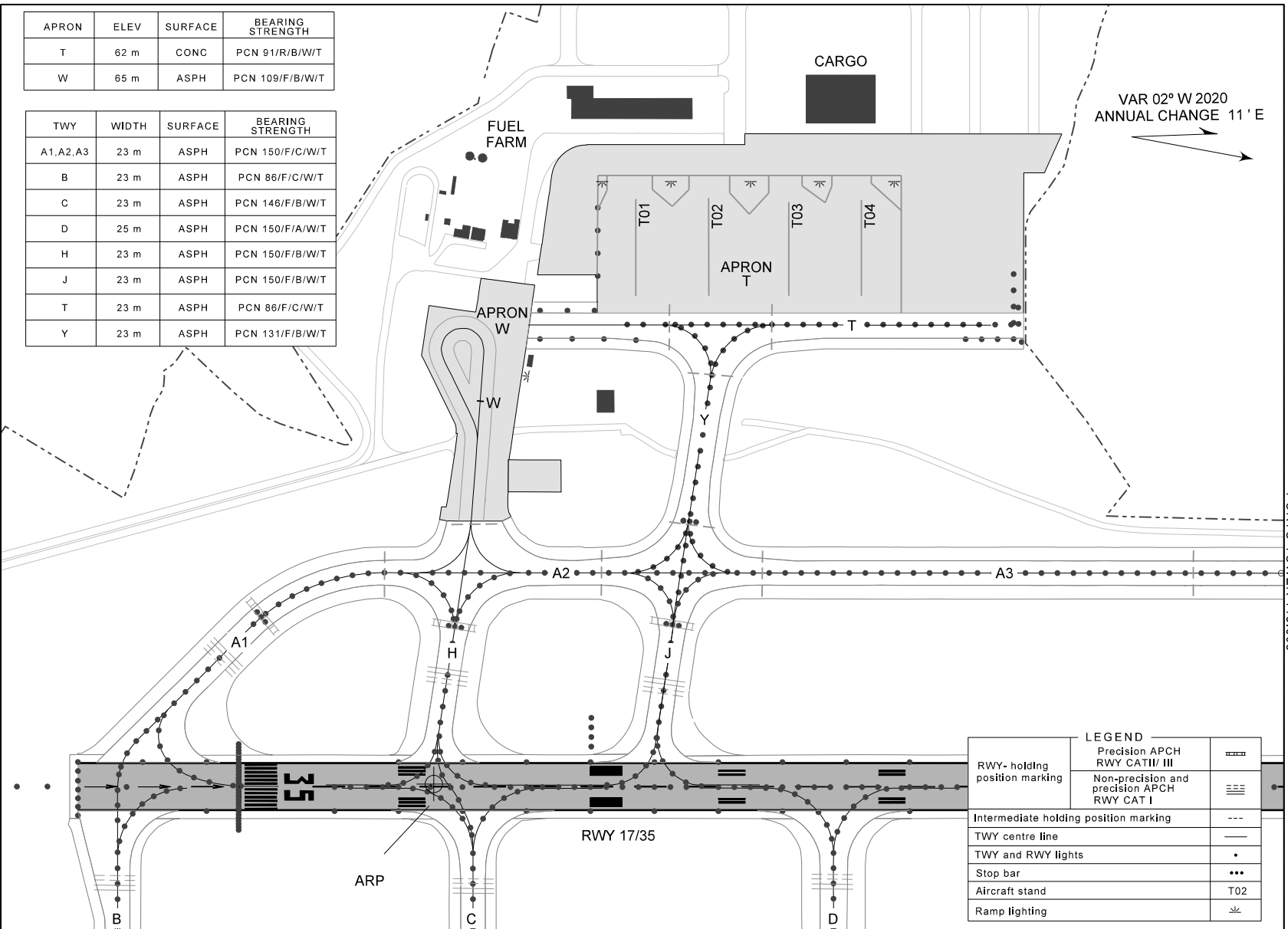
AIRCRAFT PARKING  
DOCKING CHART - ICAO

APRON ELEV  
T 62m W 65m

PORTO ARR INFORMATION 124.305  
PORTO DEP INFORMATION 121.680  
PORTO DELIVERY 118.930  
PORTO GROUND 121.040  
PORTO TOWER 118.005

Porto, Francisco Sá Carneiro  
(LPPR)

VAR 02° W 2020  
ANNUAL CHANGE 11' E



APRON	ELEV	SURFACE	BEARING STRENGTH
T	62 m	CONC	PCN 91/R/B/W/T
W	65 m	ASPH	PCN 109/F/B/W/T

TWY	WIDTH	SURFACE	BEARING STRENGTH
A1,A2,A3	23 m	ASPH	PCN 150/F/C/W/T
B	23 m	ASPH	PCN 86/F/C/W/T
C	23 m	ASPH	PCN 146/F/B/W/T
D	25 m	ASPH	PCN 150/F/A/W/T
H	23 m	ASPH	PCN 150/F/B/W/T
J	23 m	ASPH	PCN 150/F/B/W/T
T	23 m	ASPH	PCN 86/F/C/W/T
Y	23 m	ASPH	PCN 131/F/B/W/T

LEGEND		
RWY- holding position marking	Precision APCH RWY CATII/ III	
	Non-precision and precision APCH RWY CAT I	
Intermediate holding position marking		
TWY centre line		
TWY and RWY lights		
Stop bar		
Aircraft stand		
Ramp lighting		

new ground service.

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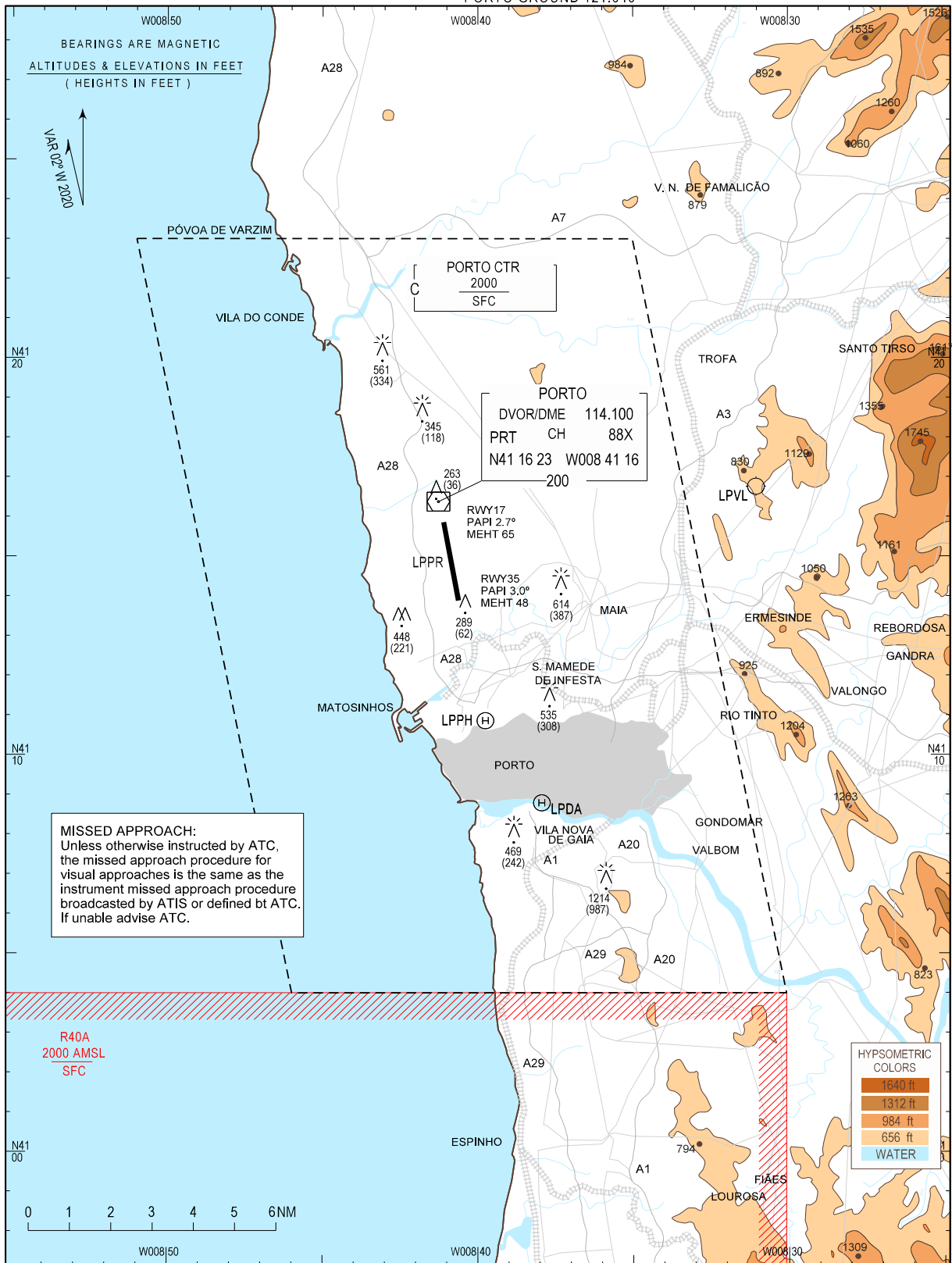


**VISUAL  
APPROACH  
CHART - ICAO**

AD ELEV 227 ft  
HEIGHTS RELATED  
TO AD ELEV

PORTO ARR INFORMATION 124.305  
PORTO DEP INFORMATION 121.680  
PORTO APPROACH 120.910  
PORTO TOWER 118.005  
PORTO GROUND 121.040

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(LPPR)



new ground service.

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**LPVR AD 2.17    ATS AIRSPACE**

1	Designation and lateral limits	Vila Real ATZ 412116N 0074525W - 411926N 0073749W - 411149N0074103W - 411338N 0074837W - 412116N0074525W
2	Vertical limits	GND / 4000FT AMSL
3	Airspace classification	G
4	ATS unit call sign / Language(s)	Vila Real Information / PTEN
5	Transition altitude	8000FT
6	Remarks	ATZ activation is subject to AFIS operating hours in coordination with Lisboa ACC.

**LPVR AD 2.18    ATS COMMUNICATION FACILITIES**

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
AFIS	Vila Real Information	122.905MHZ	See AD 2.3 Item 7	NIL

**LPVR AD 2.19    RADIO NAVIGATION AND LANDING AIDS**

Type Category (MAG Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DVOR/DME (02° W - 2020)	VIS	113.100MHZ CH 78X	H24	404324.3N 0075309.0W	640.57M	Coverage: 200NM FL500 Not usable: 130°/180° BLW 9000FT BYD 40NM 180°/315° BLW 6000FT BYD 40NM 315°/130° BLW 8000FT BYD 40NM DVOR: With excessive needle fluctuation may be observed: RDL 183 between 28-33NM at FL105 RDL 314 between 11-13NM at FL095 DME: RDL 098 BYD 37NM BLW FL105

**LPVR AD 2.20    LOCAL AERODROME REGULATIONS****1.            Limitations on use of aerodrome**

The Aerodrome is a NON-CONTROLLED Aerodrome.

In approach to Runways 02 / 20 and when there are cross winds a strong descend can occur.

**2.            Ultralight Flights**

Ultralight flights are permitted at aerodrome

**LPVR AD 2.21 NOISE ABATEMENT PROCEDURES**

See AD1.1.6.1 [Noise abatement procedures](#)

See AD 1.1.7 [Restrictions for nocturnal flights for civil aircraft on Portuguese airports and/or aerodromes](#)

**LPVR AD 2.22 FLIGHT PROCEDURES**

All aircraft (including ULM) operating at ATZ are subject to the following conditions:

- Two-way radio communications
- Submission of a FPL

Holding Procedures

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
ULVAX ULVAX 410015N0075004W RDL009-DME17 VIS DVOR/DME	009°	LEFT	170	7000 FT ALT FL 140	5 NM

**LPVR AD 2.23 ADDITIONAL INFORMATION**

Bird Activity:

Danger of collision with birds during taxiing, landing and take-off operations.

**LPVR AD 2.24 CHARTS RELATED TO AN AERODROME**

Name	Page
AERODROME CHART- ICAO	LPVR AD 2.24.01-1
INSTRUMENT APPROACH -ICAO RNP RWY 02 (LNAV only)	LPVR AD 2.24.12-1
VISUAL APPROACH CHART- ICAO	LPVR AD 2.24.13-1