

PORTUGAL



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AIP AMENDMENT: AIRAC 003-24
EFFECTIVE DATE: 11-JUL-2024

1. AIRAC changes incorporated in this AIP Amendment:

GEN

NIL

ENR

1.4 ATS Airspace Classification, areas corrected.
 4.1 VOR ESP, VOR FTM, FRA Relevance update.
 4.4 FRA Relevance update.
 5.4 New obstacles. Obstacles corrected.
 6.01-5 Chart updated.

AD

LPCS AD Category for fire fighting changed.
 SID RNAV RWY35, track changed, coding table.
 SID RNAV RWY17, coding table changed.
 STAR RNAV RWY35, HLDG CASLU corrected.
 LPFR Local aerodrome regulations changed.
 LPPT PESEX HLDG, UPKAT HLDG level changed.
 STAR RNAV RWY02, speed restriction PT831 changed.
 IAP RNP RWY02, RNP RWY 20 coding tables FAS data block changed.
 VAC RWY02 areas information box corrected, Go-around ALT changed.

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

GEN

2.5 São Jorge VOR VAP. Purpose changed.

ENR

NIL

AD

LPAZ Handling services and facilities changed.
 LPBJ AD Administration contact information, handling, passenger facilities changed.
 LPCS IAP DVOR RWY35, editorial.
 LPMA New Handling Operator.

LPPT

IAP ILS RWY20 CAT II&III, missing label ROKOB.
ATCSMAC significant points, editorial.**3. This AIP Amendment incorporates information contained in the following publications:**

NOTAM Series A:

A0110/24, A0111/24, A0642/24, A0890/24, A0949/24, A0950/24, A1035/24, A1068/24, A1143/24, A1211/24,
A1214/24, A1336/24, A1409/24, A1415/24, A1423/24, A1433/24, A1434/24, A1482/24, A1587/24, A1706/24,
A1724/24, A1916/24, A1917/24.

NOTAM incorporated in this AMDT will be cancelled by NOTAMC on 25-JUL-2024.

SUP: NIL

AIC: NIL

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

Insert the following pages

GEN 0.2 - 1/2
 GEN 0.3 - 1/2
 GEN 0.3 - 3/4
 GEN 0.4 - 1/2
 GEN 0.4 - 3/4
 GEN 2.5 - 1/2
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 ENR 5.4 - 47/48
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 ENR 6 - 1/2
 ENR 6.01-5 - 5/6
 LPBJ AD 2 - 1/2
 LPBJ AD 2 - 3/4
 LPBJ AD 2 - 5/6
 LPCS AD 2 - 3/4
 LPCS AD 2 - 13/14
 LPCS AD 2.24.08-5 - 7/8
 LPCS AD 2.24.08-9 - 9/10
 LPCS AD 2.24.08-9 - 11/12
 LPCS AD 2.24.10-1 - 1/2
 LPCS AD 2.24.12-1 - 1/2
 LPFR AD 2 - 9/10
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 LPFR AD 2 - 19/20
 LPPT AD 2 - 45/46
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 LPPT AD 2.24.10-1 - 1/2
 LPPT AD 2.24.11-1 - 1/2
 LPPT AD 2.24.12-5 - 5/6
 LPPT AD 2.24.12-9 - 9/10
 LPPT AD 2.24.12-11 - 11/12
 LPPT AD 2.24.13-3 - 3/4
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 LPMA AD 2 - 17/18
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 LPAZ AD 2 - 1/2

Remove the following pages

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 LPPT AD 2.24.11-1 - 1/2
 LPPT AD 2.24.12-5 - 5/6
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 LPMA AD 2 - 11/12
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GEN 0.2 RECORD OF AIP AMENDMENTS

AIP AMENDMENT			
<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	

AIRAC AIP AMENDMENT			
<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	

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GEN 0.3 RECORD OF AIP SUPPLEMENTS

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	LPPC - OBSTACLE ERECTED IN LISBOA (CITY)	ENR	27-JUN-2013	Effective UFN
014/2013	LPPC - 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	LPLA AD - INSTRUMENT APPROACH PROCEDURES CHANGED	AD	07-DEC-2018	Effective UFN
007/2020	LPLA - 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	LPPC 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	LPPC 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
042/2022	LPPT AD - OBSTACLE ERECTED	AD	14-JUL-2022	27-MAY-2024 EST
004/2023	LPLA 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	LPPR AD - NON-STANDARD PARKING ON STAND S42	AD	26-MAR-2023	Effective UFN
056/2023	LPPR AD - NON-STANDARD PARKING PROCEDURE	AD	13-JUL-2023	30-JUN-2024 EST
061/2023	LPPT AD - OBSTACLE ERECTED	AD	10-AUG-2023	30-JUN-2024 EST
062/2023	LPPT AD - OBSTACLES ERECTED	AD	10-AUG-2023	31-JUL-2025 EST
067/2023	VOR/DME VSM VOR PART U/S	ENR, AD	30-NOV-2023	30-JUN-2024 EST
069/2023	UKRANIAN CRISIS - FIR RESTRICTIONS	ENR, AD	30-NOV-2023	26-SEP-2024 EST
074/2023	LPPC FIR - OBSTACLES ERECTED	ENR	30-NOV-2024	30-JUN-2024 EST
001/2024	LOCATOR PI U/S	ENR	22-FEB-2024	31-DEC-2024 EST
003/2024	LPPC 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

NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
008/2024	LPPT AD - OBSTACLE ERECTED	AD	22-FEB-2024	31-MAY-2025 EST
009/2024	LPPC FIR - UNMANNED AIRCRAFT SYSTEMS (UAS) WITHIN LPR43C	AD	22-FEB-2024	31-DEC-2024 EST
010/2024	LPBJ AD - OBSTACLE LIGHTS U/S	AD	22-FEB-2024	30-JUN-2024 EST
011/2024	LPAZ AD - TWR OBSTACLE LIGHTS U/S	AD	22-FEB-2024	31-JUL-2024 EST
012/2024	LPMA AD - FUEL 100LL NOT AVAILABLE	AD	22-FEB-2024	31-DEC-2024 EST
013/2024	LPPR 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
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
019/2024	LPPS AD - DELAYS ON UNSCHEDULED FLIGHTS	AD	22-FEB-2024	31-AUG-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
022/2024	LPEV AD - RWY 07/25 CLOSED	AD	22-FEB-2024	30-APR-2024 EST
023/2024	LPPS AD - PAVEMENT STRUCTURE LIMITATIONS	AD	22-FEB-2024	04-JUL-2024 EST
024/2024	LPPR AD - OBSTACLE LIGHTS U/S	AD	22-FEB-2024	31-DEC-2024 EST
025/2024	LPPR AD - A-SMGCS DOWNGRADED	AD	22-FEB-2024	30-JUN-2024 EST
026/2024	LPPR AD - RETIL U/S	AD	22-FEB-2024	31-DEC-2024 EST
027/2024	LPPI AD - RWY AND APCH LIGHTS CONTROL N/A	AD	22-FEB-2024	30-JUN-2024 EST
028/2024	LPPI AD - RTIL RWY 09/27 U/S	AD	22-FEB-2024	30-JUN-2024 EST
029/2023	RUSSIAN FEDERATION - OPERATION RESTRICTIONS IN PORTUGUESE TERRITORY	ENR, AD	21-FEB-2024	13-OCT-2024
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
034/2024	LPLA AD - CRANE ERECTED	AD	16-MAY-2024	01-JUL-2024 EST
035/2024	LPPT AD - OBSTACLE ERECTED (CRANE)	AD	16-MAY-2024	31-AUG-2024 EST
036/2024	LPPT AD - OBSTACLE ERECTED	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

NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
043/2024	LPPT AD - REDUCED RUNWAY SEPARATION MINIMA	AD	16-MAY-2024	30-SEP-2024 EST
045/2024	LPPD AD - CRANE ERECTED	AD	16-MAY-2024	30-JUL-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
048/2024	LPPR AD - RWY 17/35 CLOSED	AD	11-JUL-2024	31-DEC-2025 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
051/2024	LPMA AD - TEMPORARY PARKING RESTRICTIONS	AD	11-JUL-2024	30-SEP-2024 EST
052/2024	LPHR AD - WDI LIGHTS U/S	AD	11-JUL-2024	30-SEP-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
055/2024	LPCS AD - USE OF TERMINAL BUILDING	AD	11-JUL-2024	26-OCT-2024 EST

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GEN 0.4 CHECKLIST OF AIP PAGES

Page	Date	Page	Date	Page	Date
PART 1 – GENERAL (GEN)					
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	11-JUL-2024	GEN 3.5 - 3	19-MAY-2022	ENR 2.1 - 7	24-MAR-2022
GEN 0.3 - 1	11-JUL-2024	GEN 3.5 - 4	19-MAY-2022	ENR 2.1 - 8	14-JUL-2022
GEN 0.3 - 2	11-JUL-2024	GEN 3.5 - 5	14-JUL-2022	ENR 2.1 - 9	16-MAY-2024
GEN 0.3 - 3	11-JUL-2024	GEN 3.5 - 6	14-JUL-2022	ENR 2.1 - 10	16-MAY-2024
GEN 0.4 - 1	11-JUL-2024	GEN 3.6 - 1	12-AUG-2021	ENR 2.1 - 11	16-MAY-2024
GEN 0.4 - 2	11-JUL-2024	GEN 3.6 - 2	12-SEP-2019	ENR 2.1 - 12	16-MAY-2024
GEN 0.4 - 3	11-JUL-2024	GEN 3.6 - 3	12-SEP-2019	ENR 2.1 - 13	16-MAY-2024
GEN 0.4 - 4	11-JUL-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	20-AUG-2015	GEN 4.2 - 3	01-MAY-2014	ENR 2.1 - 19	16-MAY-2024
GEN 1.1 - 2	09-NOV-2017	GEN 4.2 - 4	22-FEB-2024	ENR 2.1 - 20	16-MAY-2024
GEN 1.1 - 3	22-FEB-2024	GEN 4.2 - 5	22-FEB-2024	ENR 2.1 - 21	16-MAY-2024
GEN 1.2 - 1	01-DEC-2022	PART 2 – EN-ROUTE (ENR)			
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	26-MAR-2023	ENR 0.2 - 1	09-JUN-2006	ENR 2.2 - 2	13-JUL-2023
GEN 1.2 - 4	26-MAR-2023	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	26-MAR-2023	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	13-NOV-2014	ENR 1.1 - 5	16-MAY-2024	ENR 2.2 - 13	23-MAY-2019
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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	16-MAY-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	23-MAY-2019
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
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LPPR AD 2 - 22	10-AUG-2023				
LPPR AD 2 - 23	10-AUG-2023				
LPPR AD 2 - 24	22-FEB-2024				
LPPR AD 2 - 25	30-NOV-2023				
LPPR AD 2.24.01 - 1	22-FEB-2024				
LPPR AD 2.24.02 - 1	22-FEB-2024				
LPPR AD 2.24.02 - 3	24-MAR-2022				
LPPR AD 2.24.04 - 1	30-NOV-2023				
LPPR AD 2.24.06 - 1	30-NOV-2023				
LPPR AD 2.24.08 - 1	02-DEC-2021				
LPPR AD 2.24.08 - 2	12-AUG-2021				
LPPR AD 2.24.08 - 3	02-DEC-2021				
LPPR AD 2.24.08 - 4	12-AUG-2021				
LPPR AD 2.24.08 - 5	02-DEC-2021				
LPPR AD 2.24.08 - 6	12-AUG-2021				
LPPR AD 2.24.08 - 7	02-DEC-2021				
LPPR AD 2.24.08 - 8	12-AUG-2021				
LPPR AD 2.24.10 - 1	02-DEC-2021				
LPPR AD 2.24.10 - 2	12-AUG-2021				
LPPR AD 2.24.10 - 3	24-MAR-2022				
LPPR AD 2.24.10 - 4	24-MAR-2022				
LPPR AD 2.24.11 - 1	01-DEC-2022				
LPPR AD 2.24.12 - 1	02-DEC-2021				
LPPR AD 2.24.12 - 3	30-NOV-2023				
LPPR AD 2.24.12 - 5	14-JUL-2022				
LPPR AD 2.24.12 - 7	14-JUL-2022				
LPPR AD 2.24.12 - 9	02-DEC-2021				
LPPR AD 2.24.12 - 10	12-AUG-2021				
LPPR AD 2.24.13 - 1	02-DEC-2021				

GEN 2.5 LIST OF RADIO NAVIGATION AIDS

In the following tables, the abbreviations mean:

A - NAVAIDS affecting exclusively SID/STAR and/or Landing Procedures to a certain Aerodrome.

E - NAVAIDS used in en-route navigation or affecting SID/STAR procedures to several Aerodromes.

AE -NAVAIDS involved in en-route navigation or SID/STAR procedures to several aerodromes and at the same time serve to a certain aerodrome.

This criteria must be taken into consideration to obtain complete information when requesting a PIB (Pre-Flight Information Bulletin).

2.5.1 List of radio navigation aids (Decode)

ID	Station name	Facility	Purpose
1	2	3	4
ARR	ARRABIDA	DME	E
BEJ	BEJA	TACAN	E
BJ	BEJA	LOC 19R	A
BJ	BEJA	DME	A
CAS	CASCAIS	DVOR/DME	AE
DAR	AROUCA	DME	E
DHT	MONTE DA GUIA	DME	E
DK	LAJES	LOC 15	A
DML	ALCARIA RUIVA	DME	AE
DMR	MARÃO	DME	E
DMT	MONTARGIL	DME	E
DMU	MURO	DME	E
DMX	MEXILHOEIRA GRANDE	DME	AE
DPR	PEREIRO	DME	AE
DSA	ARGA	DME	E
DSC	SANTA CRUZ - FLORES	DME	A
DSL	SALIR	DME	AE
ESP	ESPICHEL	DVOR/DME	AE
EVR	EVORA	L	A
FAR	FARO	DME	A
FIL	HORTA	NDB	AE
FIT	FARO	DME	A
FIT	FARO	LOC 10	A
FRS	FLORES	DVOR/DME	AE
FTM	FATIMA	DVOR/DME	AE
FUN	FUNCHAL	DVOR/DME	AE
GC	GRACIOSA	L	AE
HT	HORTA	L	A
IIF	FARO	DME	A
IIF	FARO	LOC 28	A
ILB	LISBOA	LOC 21	A
ILB	LISBOA	DME	A
ILI	LISBOA	LOC 03	A

ID	Station name	Facility	Purpose
1	2	3	4
ILI	LISBOA	DME	A
IPO	PICO	LOC 27	A
IPO	PICO	DME	A
LAR	ARRUDA	NDB	AE
LIS	LISBOA	DVOR/DME	AE
LM	LAJES	VOR	AE
MA	SANTA MARIA	LOC18	A
MOJ	MONTIJO	TACAN	E
MTR	MONTE REAL	TACAN	E
NL	PONTA DELGADA	LOC/DME	A
NL	PONTA DELGADA	LOC 30	A
NSA	NISA	DVOR/DME	AE
OZ	LAJES	LOC 33	A
PD	PONTA DELGADA	L	A
PDS	PONTE DE SOR	LOC 21	A
PDS	PONTE DE SOR	DME	A
PI	PICO	L	A
PR	PORTO	LOC/DME	A
PR	PORTO	LOC 17	A
PRT	PORTO	DVOR/DME	AE
SC	FLORES	L	A
SGR	SAGRES	DVOR/DME	E
SNT	PORTO SANTO	DVOR/DME	AE
SRA	SINTRA	VORTAC	AE
TRM	LAJES	TACAN	A
VAP	SAO JORGE	DVOR/DME	A
VFA	FARO	DVOR/DME	AE
VFL	HORTA	DVORTAC	AE
VIS	WISEU	DVOR/DME	AE
VMG	SAO MIGUEL	DVOR/DME	AE
VSM	SANTA MARIA	VOR/DME	AE

2.5.2 List of radio navigation aids (Encode)

Station name	Facility	ID	Purpose
1	2	3	4
ALCARIA RUIVA	DME	DML	AE
ARGA	DME	DSA	E
AROUCA	DME	DAR	E
ARRABIDA	DME	ARR	E
ARRUDA	NDB	LAR	AE
BEJA	TACAN	BEJ	E
BEJA	DME	BJ	A
BEJA	LOC 19 R	BJ	A
BEJA	GP 19R		A
CASCAIS	DVOR/DME	CAS	AE
ESPICHEL	DVOR/DME	ESP	AE
EVORA	L	EVR	A
FARO	DME	IIF	A
FARO	DVOR/DME	VFA	AE
FARO	DME	FAR	A
FARO	LOC 28	IIF	A
FARO	GP 28		A
FARO	DME	FIT	A
FARO	LOC 10	FIT	A
FATIMA	DVOR/DME	FTM	AE
FLORES	DVOR/DME	FRS	AE
FLORES	L	SC	A
FUNCHAL	DVOR/DME	FUN	AE
GRACIOSA	L	GC	AE
HORTA	DVORTAC	VFL	AE
HORTA	L	HT	A
HORTA	NDB	FIL	AE
LAJES	TACAN	TRM	A
LAJES	VOR	LM	AE
LAJES	LOC 15	DK	A
LAJES	LOC 33	OZ	A
LAJES	GP 15		A
LAJES	GP 33		A
LISBOA	DVOR/DME	LIS	AE
LISBOA	LOC 03	ILI	A
LISBOA	DME	ILI	A
LISBOA	LOC 21	ILB	A
LISBOA	DME	ILB	A
LISBOA	GP 03		A
LISBOA	GP 21		A
MARÃO	DME	DMR	E
MEXILHOEIRA GRANDE	DME	DMX	AE
MONTARGIL	DME	DMT	E
MONTE DA GUIA	DME	DHT	E
MONTE REAL	TACAN	MTR	E

Station name	Facility	ID	Purpose
1	2	3	4
MONTIJO	TACAN	MOJ	E
MURO	DME	DMU	E
NISA	DVOR/DME	NSA	AE
PEREIRO	DME	DPR	AE
PICO	L	PI	A
PICO	LOC 27	IPO	A
PICO	DME	IPO	A
PONTA DELGADA	LOC/DME	NL	A
PONTA DELGADA	L	PD	A
PONTA DELGADA	LOC 30	NL	A
PONTA DELGADA	GP 30		A
PONTE DE SOR	LOC 21	PDS	A
PONTE DE SOR	DME	PDS	A
PORTO	LOC/DME	PR	A
PORTO	DVOR/DME	PRT	AE
PORTO	LOC 17	PR	A
PORTO	GP 17		A
PORTO SANTO	DVOR/DME	SNT	AE
SAGRES	DVOR/DME	SGR	E
SALIR	DME	DSL	AE
SANTA CRUZ - FLORES	DME	DSC	A
SANTA MARIA	VOR/DME	VSM	AE
SANTA MARIA	LOC 18	MA	A
SANTA MARIA	GP 18		A
SAO JORGE	DVOR/DME	VAP	A
SAO MIGUEL	DVOR/DME	VMG	AE
SINTRA	VORTAC	SRA	AE
WISEU	DVOR/DME	VIS	AE

ENR 1.4 ATS AIRSPACE CLASSIFICATION

Within the Lisboa FIR the airspace is classified "C", "D" and "G".

The airspace classification "D" has been allocated to the restricted areas LPR26A, LPR70A, LPR70BN, LPR40A, LPR40BN, LPR40BS, LPR69A, LPR69BW, LPR69BE, LPR69BS, LPR51A, LPR51BN and LPR51BS, while these airspaces volumes are affected to military use; when the air traffic service provided is delegated to civilian units, the airspace classification volume will change to "C".

Within Santa Maria Oceanic FIR the airspace is classified "A", "C" and "G".

The airspace classifications "A", "C", "D" and "G" have been selected from the ICAO annex 11, as transposed in Commission Implementing Regulation (EU) NR 923/2012, of 26 September, SERA.6001 - Classification of airspaces and are described in subsequent paragraphs.

1.4.1 CLASS A - CONTROLLED AIRSPACE

1.4.1.1 The provisions of Class A Airspace are shown below:

	IFR	VFR
Separation provided	All Aircraft	VFR FLIGHTS NOT PERMITTED
Service provided	Air Traffic Control Service	
VMC Minima	Not applicable	
Speed limitation	Not applicable	
Radio Communication	Continuous two-way	
ATC clearance	Required	

1.4.1.2 Class A Airspace comprises:

1.4.1.2.1 Within the Santa Maria Oceanic FIR:

- a. Santa Maria Oceanic Control Area (OCA);
- b. The ATS Routes notified and Organized Track System (OTS) established within the OCA;
- c. Santa Maria Terminal Control Area (TMA) above FL195.

1.4.2 CLASS C - CONTROLLED AIRSPACE

1.4.2.1 The provisions of Class C Airspace are shown below:

	IFR	VFR
Separation provided	IFR from IFR IFR from VFR	VFR from IFR
Service provided	Air Traffic Control Service	Air Traffic Control Service for Separation from IFR VFR / VFR Traffic Information (and Traffic avoidance advise on request)
VMC Minima	Not applicable	At and above FL100: 8 KM visibility 1500M horizontal and 300M vertical distance from cloud. Below FL100: 5 KM visibility 1500M horizontal and 300M vertical distance from cloud.

	IFR	VFR
Speed limitation *	Not applicable	250KT IAS below 3050M (10000FT AMSL)
Radio Communication	Continuous two-way	Continuous two-way
ATC Clearance	Required	Required

* When the height of transition altitude is lower than 3050 M(10000FT) AMSL, FL100 should be used in lieu of 10000 FT.

1.4.2.2 Class C Airspace comprises:

1.4.2.2.1 Within the Lisboa FIR:

- a. Over Portuguese Territory (FL095 / FL660);
- b. Over High Seas (FL055 / FL999)
- c. Faro, Lisboa, Madeira and Porto Terminal Control Areas (TMA's);
- d. Cascais, Faro, Lisboa, Madeira, Porto and Porto Santo Control Zones (CTR's).

1.4.2.2.2 Within the Santa Maria Oceanic FIR:

- a. Santa Maria Terminal Control Area (TMA) below FL195;
- b. Lajes (Military) Control Area (CTA);
- c. Flores, Horta, Lajes (Military), Ponta Delgada and Santa Maria Control Zones (CTR's).

1.4.3 CLASS D - CONTROLLED AIRSPACE

1.4.3.1 The provisions of Class D Airspace are shown below:

	IFR (GAT)	VFR (GAT)
Separation provided	IFR from IFR	NIL
Service provided	Air Traffic Control Service including Traffic information about VFR flights (and traffic avoidance advice on request)	Traffic information between IFR / VFR and VFR /VFR flights (and traffic avoidance advice on request)
VMC	Not applicable	At and above FL100: 8 KM visibility 1500M horizontal and 300M vertical distance from clouds. Below FL100: 5 KM visibility 1500M horizontal and 300M vertical distance from clouds.
Speed limitation	250KT IAS below FL100	250KT IAS below FL100
Radio Communication	Continuous two-way	Continuous two-way
ATC Clearance	Required	Required

1.4.3.2 Class D Airspace comprises:

1.4.3.2.1 Within the Lisboa FIR:

- a. Beja - Restricted area - LPR51A, LPR51BN (AMC, NON-AMC) and LPR51BS (AMC, NON-AMC)
- b. Monte Real - Restricted area - LPR70A LPR70BN and LPR70BS

- c. Sintra - Restricted area - LPR69A, LPR69BW, LPR69BE and LPR69BS
- d. Ovar - Restricted area - LPR40A, LPR40BN and LPR40BS
- e. Montijo - Restricted area - LPR26A

OAT Flights, in accordance with their mission may not comply with the provisions established for the airspace classification.

1.4.4 CLASS G - UNCONTROLLED AIRSPACE

1.4.4.1 The provisions of Class G Airspace are shown below:

	IFR	VFR
Separation provided	Not provided	Not provided
Service provided	Flight Information Service	Flight Information Service
VMC Minima	Not applicable	At and Above FL100: 8 KM visibility 1500M horizontal and 300M vertical distance from cloud. Below FL100 to 3000FT AMSL or 1000FT above terrain, whichever is the higher: 5 KM visibility 1500M horizontal and 300M vertical distance from cloud. At and below 3000FT AMSL or 1000FT above terrain whichever is higher: 5KM clear of cloud and in sight * of ground or water.
Speed limitation **	250KT IAS below 3050M(10000FT) AMSL	250KT IAS below 3050M(10000FT) AMSL
Radio Communication	Continuous two-way	Within Lisboa FIR: Not required, except in ATZ and TRMZ in Lisboa FIR Within Santa Maria Oceanic FIR: Required.
ATC Clearance	Not required	Not required

*Helicopters at or below 3000 FT AMSL and clear of cloud and in sight of the surface may operate at a speed which, having regard to the visibility, is reasonable.

**When the height of transition altitude is lower than 3050 M(10000 FT) AMSL, FL100 should be used in lieu of 10000 FT.

1.4.4.2 Class G Airspace comprises:

All Airspace not covered by classes A, C and D within the Lisboa FIR and Santa Maria Oceanic FIR.

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

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
ALCARIA RUIVA DME	DML	CH 92X	H24	374203N 0074549W	360M	NIL / Coverage: 140 NM / FL 150
ARGA DME	DSA	CH 99X	H24	414755N 0084237W	800M	NIL / Coverage: 088°/268° 80NM / FL400
AROUCA DME	DAR	CH 96X	H24	405600N 0081331W	730M	NIL / Coverage: 225°/045° 73NM / FL400
ARRABIDA DME	ARR	CH 20X	H24	382934N 0085744W	1200FT	FRA (I) / Coverage: 150NM FL100 Not usable: 080°/215° 240°/280°
ARRUDA NDB (02° W - 2020)	LAR	382 KHZ	H24	385940N 0090225W		NIL / Coverage: 50NM
BEJA TACAN	BEJ	CH 105X	H24	380742N 0075536W	700FT	NIL / Coverage: 150NM / FL300 Not usable: BTN R060 and R070 all levels
CASCAIS DVOR/DME (03° W - 2020)	CAS	114.30MHZ CH 90X	H24	384454N 0092143W	700FT	FRA (I) / Coverage: 60NM DVOR Sectors not usable: 030°/060° BYD 20NM BLW FL100 290°/350° BYD 10NM BLW FL100
ESPICHEL DVOR/DME (02° W - 2020)	ESP	112.50MHZ CH 72X	H24	382527N 0091108W	180M	FRA (I) FRA (D): LPPT, LPCS Coverage: 203°/315° - 200NM FL500 315°/203° - 80NM FL500 Not usable: 060°/180° BYD 30NM BLW 4000FT
FARO DVOR/DME (01° W - 2020)	VFA	112.80MHZ CH 75X	H24	370049N 0075830W	100FT	FRA (I) / Coverage: 200NM FL500 Not usable: 340°/060° BYD 40NM BLW 4000FT

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
FATIMA DVOR/DME (02° W - 2020)	FTM	113.50MHZ CH 82X	H24	DVOR: 393956N 0082934W DME: 393958N 0082936W	700FT	FRA (I) FRA (D): LPPT Coverage: 60NM FL500 Not usable: 210°/230° BYD 35NM BLW 4000FT AMSL BYD 40NM BLW 5000FT AMSL BYD 47NM BLW 6000FT AMSL RDL 173 BYD 65NM at or BLW 9500FT
FLORES DVOR/DME (12°W - 2020)	FRS	113.30MHZ CH 80X	H24	392713N 0311238W	2800FT	NIL / Coverage: 250NM FL300 Not usable: 325°/345° BYD 40NM BLW 16000FT RDL127 BYD 35NM BLW 5000FT RDL297 BYD 25NM BLW 5000FT RDL317 BYD 35NM BLW 5000FT
FUNCHAL DVOR/DME (04° W - 2020)	FUN	112.20 MHZ CH 59X	H24	DVOR: 324450N 0164220W DME: 324449N 0164220W	500FT	FRA (I) / Coverage: 200NM FL500 Not usable: 240°/310° BYD 20NM BLW 9000FT
GRACIOSA L (10° W - 2020)	GC	428KHZ	H24	390538N 0280151W		NIL / Coverage: 25NM
HORTA DVORTAC (9°W - 2020)	VFL	112.70MHZ CH 74X	H24	383110N 0283725W	500FT	NIL / Coverage: 240NM - FL600 DVOR not usable: 010°/020° BYD 10NM BLW 10000FT 080°/140° BYD 15NM BLW 10000FT 280°/010° BYD 10NM BLW 10000FT DVOR not usable below 5000FT TACAN not usable: 010°/020° BYD 10NM BLW 10000FT 045°/080° BYD 30NM BLW 5000FT 080°/100° BYD 28NM BLW 5500FT 100°/140° BYD 15NM BLW 10000FT 140°/150° BYD 40NM BLW 3000FT 280°/010° BYD 10NM BLW 10000FT DME not usable: 110°/120° BYD 15NM BLW 5000FT 307° BYD 17NM BLW 5000FT
HORTA NDB (9° W - 2020)	FIL	380 KHZ	H24	383121N 0284109W		NIL / Coverage: 250NM
LAJES VOR (10° W - 2020)	LM	112.30MHZ	H24	384702N 0270616W		NIL / Coverage: 100NM Not usable: RDL215/RDL275 BYD 15NM Maintenance: MON-FRI 0000-0700(2300-0600)
LISBOA DVOR/DME (02° W - 2020)	LIS	114.80MHZ CH 95X	H24	385316N 0090946W	1100FT	FRA (I) / Coverage: 80NM FL500

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 184 between 28-33NM at FL105 RDL 315 between 11-13NM at FL095 DME: RDL 099 signal strength drops below tolerance beyond 47NM

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage 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
ABALO	321952N 0180749W	UM190, UQ11, UZ220, Z220	FRA (EX): ODD/EVEN FL LISBOA / SANTA MARIA FIR BDRY
ABETO	402547N 0080323W	UN726, UN872	FRA (I) / NIL
ABLEG	404322N 0082552W	N/A	FRA (I) / FRA (A): LPPR
ABRAT	394918N 0073915W	UN745	FRA (I) / NIL
ABRIL	402346N 0083449W	N/A	NIL / NIL
ABUPI	414504N 0071410W	UN872	FRA (E): ODD FL MADRID / LISBOA ACC, Above FL245
ABUSU	325201N 0163808W	N/A	FRA (I) / MADEIRA TMA, FRA (D): LPPS / Holding Pattern, MADEIRA CONTINGENCY
ADILI	355800N 0093422W	N/A	NIL / LISBOA / CASABLANCA FIR BDRY
ADINO	400104N 0062225W	N/A	FRA (E): ODD FL LECM FIR TCP MADRID / LISBOA ACC, Above FL245
ADNOV	413106N 0084511W	N/A	FRA (I) / Holding Pattern
ADORO	412859N 0061648W	A43, UL155	FRA (E): ODD FL FRA (X): EVEN FL LISBOA / MADRID FIR BDRY
ADSAD	382841N 0085852W	N/A	FRA (I) / LISBOA TMA, Holding Pattern
ADSOL	375731N 0260436W	N/A	NIL / NIL
AGADO	415222N 0085536W	UN729	FRA (X): EVEN FL FRA (I) FRA (E): ODD FL MADRID / LISBOA FIR BDRY
AIREZ	392717N 0083958W	N/A	FRA (I) / NIL
AKABO	411919N 0084203W	N/A	FRA (I) / NIL
AKUDA	355800N 0085700W	UN858, UZ1, W13	FRA (E): EVEN / NORTHBOUND LISBOA / CASABLANCA FIR BDRY
AKULU	405903N 0083643W	N/A	FRA (I) / Holding Pattern
ALAGU	380519N 0073652W	A44, UL14, UM744, UZ222, W13, Z222	FRA (I) FRA (AD): FARO
ALAMA	391324N 0083300W	N/A	FRA (I) / NIL

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1	2	3	4
AMIXI	372842N 0253036W	H100	NIL / SANTA MARIA TMA ENTRY STAR LPAZ, LPPD
AMSEL	355800N 0075300W	R72, UP600	FRA (E): EVEN FL / NORTHBOUND FRA (X): ODD FL / SOUTHBOUND (NOT TO BE USED IF DESTINATION GCCC) FRA (D): LPFR LISBOA / CASABLANCA FIR BDRY
AMZIC	322058N 0160406W	N/A	NIL / MADEIRA CONTINGENCY
ANAVA	395358N 0252432W	H122	NIL / NIL
ARDID	411024N 0061656W	N/A	FRA (E): ODD FL LECM FIR TCP MADRID/ LISBOA ACC, Above FL245
ARMED	423000N 0140000W	T12, UZ29	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
ARNIT	385927N 0085734W	N/A	FRA (I) / NIL
ASGAM	350000N 0124242W	N/A	FRA (X): ODD FL / EASTBOUND FRA (E): EVEN FL / WESTBOUND LISBOA / CASABLANCA FIR BDRY
ASMAR	392221N 0113544W	R1, T12, UN741, UN981, UZ8	FRA (I) / NIL
ASMOV	405810N 0092049W	N/A	FRA (I) FRA (AD): LPPR
ASPEX	381911N 0280929W	H101	NIL / SANTA MARIA TMA, ENTRY STAR LPHR
ASPOR	414855N 0080452W	UT3	FRA (E): ODD FL FRA (A): LPPR
ATECA	383930N 0083721W	A975, UN975, UZ218	FRA (I) / NIL
BABEX	410225N 0070502W	UN976, UZ15, UZ218	FRA (I) / NIL
BABOV	395235N 0065225W	N/A	FRA (I) / NIL
BALNO	414350N 0065854W	N/A	FRA (X): EVEN FL TCP MADRID / LISBOA ACC, Above FL245
BAMUX	231318N 0263229W	N/A	NIL / SANTA MARIA / SAL FIR BDRY
BANAL	420000N 0150000W	UZ28	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
BANIX	382420N 0280647W	H114	NIL / NIL
BARDI	403501N 0061809W	N/A	FRA (E): ODD FL FRA (X): EVEN FL TCP MADRID / LISBOA ACC, Above FL245

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1	2	3	4
BAROK	355800N 0100124W	UN873, UZ218, UZ4, W8	FRA (X): ODD FL / SOUTHBOUND FRA (E): EVEN FL / NORTHBOUND FRA (D): LPFR LISBOA / CASABLANCA FIR BDRY
BATAX	414202N 0063719W	UZ218	FRA (E): ODD FL TCP MADRID / LISBOA ACC, Above FL245
BAVAS	390000N 0234042W	H112, H121	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPPD
BEKUN	375654N 0231405W	H102, H111	NIL / SANTA MARIA TMA EXIT SID LPAZ, LPPD ENTRY STAR LPAZ, LPPD
BELDU	412131N 0074638W	A43, UL155	FRA (I) FRA (D): LPPR
BEVOP	373557N 0092315W	N/A	FRA (ID): LPPT
BEXAL	355800N 0112654W	G52, UN872, UZ18, UZ223	FRA (X): ODD FL / SOUTHBOUND AND EASTBOUND FRA (E): EVEN FL / NORTHBOUND AND WESTBOUND LISBOA / CASABLANCA FIR BDRY
BIGPI	315707N 0171456W	N/A	NIL / MADEIRA CONTINGENCY
BIMBO	312517N 0160158W	B18, UN729, UN745, UN981, UZ9	FRA (E) FRA (A): LPMA CANARIAS / LISBOA FIR BDRY
BIRBA	390620N 0073043W	A975, UN873, UN975, UZ15, UZ222	FRA (I) / NIL
BOMKO	385713N 0090237W	N/A	NIL / LISBOA TMA
BURAG	315114N 0160651W	N/A	NIL / MADEIRA CONTINGENCY
BUSEN	383242N 0100000W	A44,UM744, UN870, UZ21, UZ22	FRA (I) / NIL
CANAR	412309N 0072811W	A43, G41, UL155, UN872	FRA (I) / NIL
CASLU	383224N 0094836W	N/A	FRA (I) / Holding Pattern
CEFOX	383306N 0092410W	N/A	NIL / NIL
CIDLO	381121.02N 0264418.44W	H115	NIL / NIL
COCUN	390136N 0090407W	N/A	FRA (I) / NIL
CUDLY	383200N 0265026W	N/A	NIL / NIL
DEGUN	332507N 0153930W	UQ11, UZ11, UZ13, UZ225	FRA (I) FRA (D): LPMA LPPS

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1	2	3	4
DEKKI	385747N 0084144W	N/A	FRA (I) / Holding Pattern
DEKUS	380055N 0100000W	UN745	NIL / NIL
DEMOS	415533N 0092143W	R1, UN728, UN741	FRA (X): EVEN FL FRA (E): ODD FL MADRID / LISBOA FIR BDRY
DEMZO	331348N 0171528W	N/A	NIL / MADEIRA CONTINGENCY
DETOX	410000N 0150000W	UM191	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
DEVAN	385028N 0272341W	N/A	NIL / LPLA Holding Pattern
DIDIT	411912N 0113418W	UZ28	FRA (I) / NIL
DIGAL	394427N 0075923W	UN726, UZ218, UZ222	FRA (I) / NIL
DIKMO	404324N 0075309W	N/A	NIL / NIL
DIKUV	361054N 0124502W	N/A	NIL / MADEIRA CONTINGENCY
DIRMA	405106N 0093003W	B47, G414, UM191, UZ23, UZ25, UZ28, UZ29	FRA (I) / NIL
DIRUP	313009N 0165942W	N/A	NIL / CANARIAS / LISBOA FIR BDRY
DIVUT	410143N 0081933W	N/A	FRA (I) Holding Pattern
DOKAS	371357N 0232152W	H103	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPAZ
DOLER	391605N 0262248W	H122	NIL / SANTA MARIA TMA EXIT SID, LPLA
DONOC	331326N 0162121W	N/A	NIL / NIL
DUZOP	374011N 0083906W	N/A	FRA (ID): LPPT, LPCS
EKLID	390833N 0091549W	N/A	FRA (I) / Holding Pattern
EKMAR	383327N 0093117W	Y207	FRA (I) Holding Pattern
EKNOT	321035N 0161745W	N/A	FRA (I) FRA (A): LPPS LPMA
EKNUT	204441N 0391449W	N/A	NIL SANTA MARIA / PIARCO FIR BDRY
EKPER	382523N 0100000W	N/A	FRA (I) / NIL

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1	2	3	4
EKROL	420000N 0153500W	T16	NIL / NIL
ELBEN	384210N 0281612W	H115	NIL / NIL
ELBIM	330629N 0170703W	N/A	NIL / MADEIRA CONTINGENCY
ELDUK	374840N 0075626W	R72, UN726	FRA (I) / NIL
ELGIX	413116N 0074023W	N/A	FRA (I) FRA (A): LPPR
ELNUB	390456N 0104016W	N/A	FRA (ID): LPPT
ELVAR	391310N 0071324W	A975, UL14, UN975, UN979, UZ219, Z219	FRA (I) / MADRID / LISBOA FIR BDRY below FL245
EMPAD	385344N 0090319W	N/A	FRA (I) / NIL
EPAKA	334352N 0160730W	N/A	NIL / MADEIRA CONTINGENCY
EPODI	385522N 0271535W	N/A	NIL / NIL
EPOPO	415613N 0101213W	N/A	FRA (I) / NIL
ERANO	381046N 0281900W	N/A	NIL / ENTRY STAR LPHR
ERMIG	390909N 0084738W	N/A	FRA (I) / NIL
ERNEK	202542N 0314314W	N/A	NIL / SANTA MARIA / SAL FIR BDRY
ERNIL	382953N 0093147W	N/A	FRA (I) / NIL
ERPES	400000N 0150000W	UZ22, UZ25	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
ERTIS	372500N 0073653W	UZ222, Y105, Z222	FRA (I) / NIL
ERUKU	384733N 0085859W	N/A	NIL / LISBOA TMA
ESEBI	392411N 0083959W	N/A	FRA (IA): LPPT
ESUTI	375136N 0102549W	N/A	FRA (IA): LPCS / Holding Pattern
ETAKA	414721N 0074348W	N/A	FRA (E) / TCP MADRID / LISBOA ACC, Above FL245
ETROX	362409N 0240128W	H104	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPAZ
EVGOT	325504N 0162038W	N/A	NIL / NIL

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1	2	3	4
EVURA	383954N 0075507W	R72, UN726, UN873	FRA (I) FRA (D): LPFR
EXFUN	384128N 0100000W	N/A	FRA (I) / NIL
EXODO	334528N 0161910W	N/A	NIL / MADEIRA CONTINGENCY
EXONA	385416N 0080100W	UZ227, Z227	FRA (I) / Holding Pattern
FAGUT	320633N 0162818W	G851, UN975	FRA (I) FRA (D): LPPS
FERFE	390331N 0100021W	N/A	FRA (I) / NIL
FUSUL	323605N 0163943W	N/A	FRA (I) / Holding Pattern
GAIOS	381632N 0083235W	A44	FRA (I) / NIL
GALOZ	330201N 0172514W	N/A	FRA (I) FRA (D): LPMA
GALPA	342353N 0144349W	UN728, UN745, UN975	FRA (I) / NIL
GANBA	411623N 0090345W	N/A	FRA (I) / NIL
GANSU	380000N 0094903W	B18, UN975, UZ18	FRA (I) / Holding Pattern
GEBTI	365906N 0074109W	N/A	FRA (I) / Holding Pattern
GENRO	371135N 0073653W	Y105, Y136	FRA (I) FRA (A): FARO / Holding Pattern
GIKAR	340958N 0140148W	UQ11, UZ9	FRA (I) / NIL
GIMAL	364552N 0080021W	Y103	FRA (I) FRA (AD): LPFR / Holding Pattern
GINSU	361733N 0273852W	H105	NIL / SANTA MARIA TMA, EXIT SID. ENTRY STAR LPAZ
GIRIX	371234N 0251311W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
GOBEG	290000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
GODGI	382527N 0091108W	N/A	FRA (I) / NIL
GOMOS	370048N 0300326W	H106	NIL / SANTA MARIA TMA, EXIT SID, ENTRY STAR LPAZ
GONAN	450000N 0140000W	T16	NIL / SANTA MARIA / SHANWICK FIR BDRY
GOSGA	320456N 0163752W	N/A	FRA (I) FRA (D): LPMA

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1	2	3	4
GOXAS	383641N 0275153W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
GUDAV	383902N 0083500W	N/A	FRA (I) / NIL
GUNTI	390000N 0150000W	UZ21, UZ23, T25	FRA (EX):ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
HIDRA	443000N 0130000W		NIL / MADRID / SANTA MARIA FIR BDRY
IBBAN	332035N 0170832W	N/A,	FRA (I) FRA (A): LPMA
IBERO	412044N 0075511W	A43, UL155	FRA (I) / NIL
IBIDO	405305N 0101112W	UM191, UN728	FRA (I) / NIL
IDBID	391642N 0080100W	N/A	FRA (I) / NIL
IDLIP	370049N 0075830W	N/A	FRA (I) / NIL
IDREL	342030N 0161730W	N/A	NIL / MADEIRA CONTINGENCY
ILCAT	332603N 0170254W	W3, UL600	FRA (I) FRA (AD): LPPS
IMILE	384701N 0270649W	N/A	NIL / NIL
INBOM	400007N 0081807W	UZ226, Z226	FRA (I) FRA (A): LPPT / Holding Pattern
INBOX	382206N 0332149W	H131	NIL / NIL
INBUL	382943N 0300000W	H131	NIL / NIL
INKIT	411049N 0075327W	N/A	FRA (I) FRA (A): LPPR
INLIB	381936N 0091410W	N/A	FRA (I) / NIL
INPIR	383624N 0265545W	N/A	NIL / NIL
INSAD	280000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
IPSIK	393353N 0075453W	N/A	NIL / NIL
IPSIN	192214N 0383544W	N/A	NIL / SANTA MARIA / PIARCO FIR BDRY
IRKID	335530N 0180409W	UL600, W3	FRA (EX): ODD / EVEN FL FRA (D): LPMA LISBOA / SANTA MARIA FIR BDRY
IRSAN	331000N 0163016W		FRA (I) / NIL

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1	2	3	4
ITVIT	385741N 0083344W	N/A	FRA (I) / Holding Pattern
IXIDA	393918N 0080100W	N/A	FRA (I) FRA (D): LPPT, LPCS
IXIKU	270000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
IXOLI	365835N 0084206W	N/A	FRA (I) FRA (AD): LPFR
IXUVA	411104N 0095109W	N/A	FRA (I) / Holding Pattern
IZENI	380827N 0110221W	N/A	FRA (I) / NIL
KEKOS	322657N 0161338W	B18	NIL / MADEIRA CONTINGENCY
KELIK	382931N 0090023W	N/A	NIL / LISBOA TMA
KETID	300000N 0200000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
KICAS	334502N 0162824W	N/A	FRA (I) FRA (A): LPMA
KOGON	385959N 0271923W	N/A	NIL / NIL
KOKER	395421N 0334402W	H142	NIL / NIL
KOLIT	403255N 0332321W	H141	NIL / NIL
KOMUT	380000N 0150000W	UM744	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
KOPAS	440000N 0130000W		NIL / MADRID / SANTA MARIA FIR BDRY
KUXOV	260000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
LACTA	385929N 0272012W	N/A	NIL / NIL
LADOX	385650N 0280116W	H124	NIL / NIL
LAMDI	391221N 0105754W	UN729	FRA (I) / NIL
LAPPA	331745N 0162131W	N/A	FRA (I) FRA (D): LPMA
LAPTU	250000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
LASIB	380215N 0071322W	UM744	FRA (X): ODD FL FRA (E): EVEN FL TCP MADRID / LISBOA ACC, Above FL245
LATRU	370000N 0100000W	N/A	FRA (I) / NIL

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1	2	3	4
LAVPA	410012N 0090746W	N/A	FRA (I) / NIL
LAZET	385526N 0104016W	N/A	FRA (IA): LPPT, LPCS / Holding Pattern
LENSI	390000N 0200000W	T25	NIL / NIL
LEPRU	320000N 0144804W	N/A	FRA (X): ODD FL / EASTBOUND FRA (E): EVEN FL / WESTBOUND LISBOA / CASABLANCA FIR BDRY
LERLI	391254N 0090210W	N/A	FRA (I) / NIL
LIDRO	334003N 0155659W	R1, UN741, UZ14	FRA (I) FRA (A): LPMA
LIGRA	380000N 0093527W	G52, UN872	FRA (I) FRA (A): LPPT
LISGU	385316N 0090946W	N/A	FRA (I) / NIL
LIZHA	383125N 0270344W	N/A	NIL / LPLA Holding Pattern
LUKAL	411511N 0322121W	H125	NIL / NIL
LUKAN	332828N 0145553W	N/A	NIL / MADEIRA CONTINGENCY
LUKIT	401149N 0300000W	H125	NIL / NIL
LULAS	405359N 0091652W	N/A	FRA (I) / NIL
LUPOV	420000N 0150500W	T13	NIL / NIL
LUTAK	370000N 0150000W	UN870	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
LUVUP	374313N 0101007W	N/A	FRA (IA): LPPT / Holding Pattern
LUXUT	375959N 0090137W	N/A	FRA (I) / Holding Pattern
MADAT	320943N 0170507W		NIL / MADEIRA CONTINGENCY
MAGUM	391003N 0082333W	G52, UN745, UN870, UP600, UZ218, UZ7, W7	FRA (I) / NIL
MALIS	415120N 0073617W	G414, UT5	NIL / LISBOA / MADRID FIR BDRY PORTO TMA
MANEL	383900N 0085650W	N/A	FRA (I) / NIL
MANIK	404131N 0083658W	A5, UP600	FRA (I) FRA (D): LPPR

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1	2	3	4
MANOX	361140N 0152325W	T13	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
MAPOR	413651N 0080330W	G414	FRA (I) / NIL
MARCU	325104N 0162028W	N/A	NIL / NIL
MARIM	372500N 0075028W	W13	FRA (I) FRA (A): LPFR
MARUM	363720N 0132616W	UZ8	FRA (I) / NIL
MASID	384451N 0270433W	N/A	NIL / NIL
MAZUK	383538N 0093315W	N/A	FRA (I) / Holding Pattern
MIMBO	413415N 0112238W	UZ29	FRA (I) / NIL
MINTA	370744N 0072300W	R47, UN747	FRA (E): ODD FL FRA (X): EVEN FL MADRID / LISBOA FIR BDRY
MIPRU	381625N 0262153W	H113	NIL / SANTA MARIA TMA, EXIT SID LPLA, LPPD ENTRY STAR LPPD
MOMAS	391909N 0080100W	UN870, UZ219, Z219	FRA (I) / NIL
MONEC	322723N 0164949W	N/A	NIL / NIL
MORAS	390950N 0080107W	N/A	FRA (I) / NIL
MOSEN	414712N 0063339W	UZ218, H406, UZ406	NIL / MADRID / LISBOA FIR BDRY
MUDOS	433000N 0130000W		NIL / MADRID / SANTA MARIA FIR BDRY
NAKOS	380000N 0092004W	UZ4, W8	FRA (I) FRA (A): LPPT
NARBO	420823N 0081342W	R72, UN726	NIL / MADRID / LISBOA FIR BDRY
NARTA	360323N 0123329W	B18, R47, UN745, UN747, UN975, UZ13, UZ14, UZ9	FRA (I) FRA (D): LPFR
NASAS	361932N 0125824W	UN729	FRA (I) / NIL
NATID	385254N 0093252W	N/A	FRA (I) / Holding Pattern
NAVIX	353114N 0161404W	T16, UZ225	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
NAVPO	373716N 0251859W	N/A	NIL / SANTA MARIA TMA

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1	2	3	4
NEGRI	385243N 0132416W	UZ21	FRA (I) / NIL
NELSO	314059N 0172725W	R1, UN741	FRA (X): ODD / EVEN FL CANARIAS / LISBOA / SANTA MARIA FIR BDRY
NETOS	411827N 0061640W	N/A	NIL / NIL
NETVO	383824N 0091241W	N/A	NIL / LISBOA TMA
NEVUD	383404N 0091849W	N/A	FRA (I) / NIL
NEXUX	300000N 0210000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
NIDUL	322155N 0172111W	UZ220, Z220	FRA (I) FRA (AD): LPMA
NILAV	450000N 0132500W	T13	NIL / SANTA MARIA / SHANWICK FIR BDRY
NILDA	384103N 0270035W	N/A	NIL / NIL
NINOS	410747N 0064638W	UN976	FRA (I) / MADRID UIR / LISBOA FIR BDRY
NIPRI	330000N 0140724W	N/A	FRA (X): ODD FL / EASTBOUND FRA (E): EVEN FL / WESTBOUND LISBOA / CASABLANCA FIR BDRY
NIRAK	371445N 0072543W	Y136	MADRID / LISBOA FIR BDRY
NOKSO	370502N 0085647W	N/A	FRA (I) / Holding Pattern
NOTMA	384845N 0280322W	H153	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPHR
NUMGI	182750N 0381022W	N/A	NIL / SANTA MARIA / PIARCO FIR BDRY
OBESA	363926N 0141445W	UM190	FRA (I) / NIL
OBOLO	363153N 0080757W	UL14, UN858	FRA (I) / NIL
OBOMO	224315N 0273020W	N/A	NIL / SANTA MARIA FIR BDRY / SAL FIR
OBUDA	390649N 0310158W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
ODAKI	383016N 0264923W	N/A	NIL / LPLA Holding Pattern
ODEMI	372951N 0082302W	A5, Y101	FRA (I) FRA (AD): LPFR
ODLIX	384044N 0091902W	Y207	FRA (I) / NIL

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage 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
ODPAK	380742N 0075536W	A44, R72, UM744, UN726, UN979, UZ7, UZ15	FRA (I) / NIL
OGDOR	340000N 0132538W	N/A	FRA (X): ODD FL / EASTBOUND FRA (E): EVEN FL / WESTBOUND LISBOA / CASABLANCA FIR BDRY
OGERO	394806N 0062402W	N/A	FRA (X): EVEN FL LECM FIR TCP MADRID / LISBOA ACC, Above FL245
OKNIB	384208N 0091043W	N/A	NIL / NIL
OLBOD	380838N 0104016W	N/A	FRA (ID): LPPT
OLDEK	381856N 0282621W	N/A	NIL / NIL
OLGAR	391100N 0075611W	B60, R72	FRA (I) / NIL
OMOBI	375326N 0244846W	N/A	NIL / SANTA MARIA TMA
ORPIC	383514N 0280643W	N/A	NIL / SANTA MARIA TMA
ORSOS	390000N 0101232W	UZ9	FRA (I) / NIL
ORTIS	312425N 0163325W	G851, UN728, UN975, UP47, UZ8	FRA (X) FRA (D): LPMA CANARIAS / LISBOA FIR BDRY
ORTOP	360136N 0072300W	A5, UN726	FRA (X): ODD FL FRA (E): EVEN FL FRA (D): LPFR BDRY FIR MADRID / LISBOA
ORTUG	382414N 0085946W	N/A	FRA (I) / Holding Pattern
ORVED	392300N 0073907W	N/A	FRA (ID): LPPT, LPCS
OSLAD	355800N 0081851W	R724, UL14	FRA (X): ODD FL / SOUTHBOUND FRA (E): EVEN FL / NORTHBOUND FRA (D): LPFR LISBOA / CASABLANCA FIR BDRY
OSLEV	300000N 0220000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
OTREG	411623N 0084116W	N/A	FRA (I) / NIL
OTZIL	330525N 0162102W	N/A	FRA (I) / NIL
OXFIN	383428N 0091802W	N/A	NIL / NIL
PARAV	405651N 0115124W	UM191	FRA (I) / NIL

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage 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
PASAS	450000N 0130000W	N/A	NIL / MADRID / SHANWICK / SANTA MARIA FIR BDRY
PECKY	343149N 0152016W	R1, UN741, UN747	FRA (I) / NIL
PELUS	332643N 0170416W	UM190, UN747	FRA (I) / NIL
PESAS	370212N 0072300W	UN858	FRA (X): EVEN FL MADRID / LISBOA FIR BDRY
PESEX	383532N 0091413W	N/A	NIL / LISBOA TMA, Holding Pattern
PESUL	405255N 0080654W	UN726, W2	FRA (I) FRA (AD): LPPR
PETEK	424044N 0120000W	N/A	FRA (X): EVEN FL FRA (E): ODD FL MADRID / LISBOA FIR BDRY
PETUD	372955N 0254820W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
PEVAP	351449N 0144906W	N/A	NIL / MADEIRA CONTINGENCY
PIBIL	300000N 0230000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
PIGOR	392802N 0134917W	UZ22, UZ23	FRA (I) / NIL
PIKIX	384639N 0283202W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
PILIM	325115N 0163529W	N/A	FRA (I) FRA (D): LPMA
PINEK	415104N 0083552W	UP600	FRA (X): EVEN FL FRA (E): ODD FL TCP MADRID / LISBOA ACC, Above FL245
PINOX	401726N 0070633W	G52, UN745, UZ15	FRA (I) / NIL
PIREN	365000N 0072300W	UZ5, W1	FRA (EX) FRA (X): EVEN FL LISBOA / MADRID FIR BDRY
PIXED	240000N 0250000W	N/A	NIL / CANARIAS / SAL / SANTA MARIA FIR BDRY
PODEL	373701N 0254159W	N/A	NIL / NIL
PORLI	393144N 0072159W	UN870, UZ15	FRA (I) MADRID UIR / LISBOA FIR BDRY
PORTA	391948N 0071809W	B60, UN873	FRA (I) / MADRID UIR / LISBOA FIR BDRY
RAKOD	394651N 0063743W	N/A	FRA (I) / NIL
RAKUN	333325N 0154653W	B18, UN975	FRA (I) FRA (A): LPMA, LPPS

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage 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
RALUS	415612N 0070659W	UN872, H406, UZ406	NIL / MADRID UIR / LISBOA FIR BDRY
RARUR	393956N 0082934W	N/A	FRA (I) / NIL
REDSO	373853N 0254743W	N/A	NIL / NIL
REGLA	385119N 0260820W	H121	NIL / SANTA MARIA TMA, EXIT SID LPLA
RELKU	382501N 0092739W	N/A	FRA (I) / NIL
RELVA	415110N 0083551W	A5	NIL / NIL
RETEN	430000N 0130000W	N/A	FRA (EX): ODD / EVEN FL SANTA MARIA / LISBOA / MADRID FIR BDRY
RETMO	411340N 0090050W	N/A	FRA (I) / Holding Pattern
RIMIV	341016N 0153539W	N/A	NIL / MADEIRA CONTINGENCY
RINOR	391237N 0084728W	N/A	FRA (I) / Holding Pattern
RIPEL	421659N 0104858W	UP47	FRA (X): EVEN FL FRA (E): ODD FL MADRID/LISBOA FIR BDRY
RIPOD	300000N 0240000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
RITUS	414925N 0081158W	UN726	FRA (E): ODD FL MADRID/LISBOA FIR BDRY
RIVRO	403722N 0064322W	B47, G52, UM191, UN745	FRA (I) / NIL
RODAP	393757N 0070355W	N/A	FRA (I) / NIL
RODAS	374621N 0255934W	N/A	NIL / NIL
RODIL	380444N 0273624W	H101	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPAZ
ROKOB	385111N 0090551W	N/A	NIL / LISBOA TMA
ROKTE	363458N 0082019W	N/A	FRA (I) / NIL
ROLAR	341241N 0151221W	UZ11, UZ14	FRA (I) / NIL
ROMEPE	390355N 0084314W	N/A	FRA (I) / NIL
ROSAL	380117N 0070605W	A44, UM744, UZ227, Z227	NIL / MADRID/LISBOA FIR BDRY
ROTBUBU	391147N 0090933W	N/A	FRA (I) / NIL

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage 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
RUKAV	221037N 0283217W	N/A	NIL / SANTA MARIA FIR BDRY / SAL FIR
RULET	341506N 0145456W	B18, UN745, UN975	FRA (I) / NIL
RULOX	385400N 0100000W	N/A	FRA (I) / Holding Pattern
RUPEP	353219N 0154252W	N/A	NIL / MADEIRA CONTINGENCY
SIPRU	391048N 0275322W	H125	NIL / NIL
SOLGI	383730N 0280158W	H115, H123	NIL / SANTA MARIA TMA, Holding Pattern ENTRY STAR LPHR
SOMUL	381321N 0271901W	H114	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPPD
SONAP	363000N 0100000W	N/A	FRA (I) / NIL
SOPOP	402624N 0122312W	T12, UZ25	FRA (I) / NIL
SORAD	300000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
SOTEX	381734N 0081312W	UN873, UP600, UZ223, W7	FRA (I) FRA (AD): LPFR
SUBAL	353247N 0121845W	N/A	FRA (X): ODD FL / EASTBOUND FRA (E): EVEN FL / WESTBOUND LISBOA / CASABLANCA FIR BDRY
SUNES	371827N 0090000W	UN873	FRA (I) / NIL
SUPIK	375515N 0260334W	N/A	NIL / NIL
TABAX	380926N 0134457W	UM744	FRA (I) / NIL
TACAT	384537N 0270529W	N/A	NIL / LPLA Holding Pattern
TAGUX	385644N 0075451W	A975, R72, UN726, UN975	FRA (I) / NIL
TAKAV	355800N 0092219W	N/A	FRA (X): ODD FL / SOUTHBOUND FRA (E): EVEN FL / NORTHBOUND LISBOA / CASABLANCA FIR BDRY
TEGTO	205737N 0304617W	N/A	NIL / SANTA MARIA FIR BDRY / SAL FIR
TELMU	353816N 0143150W	UN741, UP47	FRA (I) / NIL
TERVA	402500N 0093528W	N/A	FRA (I) / NIL
TIDVI	380727N 0260905W	N/A	NIL / NIL

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage 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
TIGGI	355800N 0105608W	N/A	FRA (E): EVEN FL / NORTHBOUND LISBOA / CASABLANCA FIR BDRY
TIMTO	382316N 0271917W	H115	NIL / SANTA MARIA TMA, EXIT SID LPPD
TIRKO	385044N 0271042W	N/A	NIL / NIL
TORVU	343910N 0140013W	N/A	NIL / MADEIRA CONTINGENCY
TOSDI	405927N 0061719W	N/A	FRA (X): EVEN FL LECM FIR, TCP MADRID / LISBOA ACC, Above FL245
TOVBA	412716N 0085852W	N/A	FRA (I) / NIL
TROIA	380424N 0085245W	A5	FRA (I) / NIL
TUNAV	391854N 0112225W	UN728	FRA (I) / NIL
TUPIX	370434N 0072300W	N/A	FRA (EX) FRA (AD): LPFR MADRID / LISBOA FIR BDRY
TURON	420405N 0083348W	A5, UP600	NIL / LISBOA/MADRID FIR BDRY
TUSEX	374925N 0260535W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
TUTLO	170000N 0373000W	N/A	NIL / SANTA MARIA / PIARCO / SAL / DAKAR FIR BDRY
TUXIV	334314N 0173827W	N/A	NIL / MADEIRA CONTINGENCY
UBANI	413328N 0091422W	N/A	FRA (I) FRA (AD): LPPR
UBESO	364451N 0074850W	N/A	FRA (I) / NIL
UDRUB	412527N 0084339W	N/A	FRA (I) / NIL
ULTEM	212946N 0294800W	N/A	NIL / SANTA MARIA / SAL FIR BDRY
ULTIT	383156N 0091218W	N/A	FRA (I) / NIL
ULVAX	410015N 0075004W	N/A	FRA (I) / Holding Pattern
ULVOT	373728N 0095923W	N/A	FRA (ID): LPPT
UNPOT	381046N 0100000W	N/A	FRA (I) / Holding Pattern
UPKAT	385759N 0090212W	N/A	NIL / LISBOA TMA, Holding Pattern

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage 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
UPULO	390238N 0073907W	N/A	FRA (IA): LPPT, LPCS / Holding Pattern
UPZET	390038N 0270751W	N/A	NIL / LPLA Holding Pattern
URATU	364146N 0250914W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
UREDI	395135N 0062336W	N/A	FRA (X): EVEN FL LECM FIR TCP MADRID / LISBOA ACC, Above FL245
USALU	371320N 0081801W	Y101, Y102	FRA (I) FRA (A): LPFR / Holding Pattern
VABEM	363257N 0131922W	UN728, UN981	FRA (I) / NIL
VAGAR	383007N 0092956W	N/A	FRA (I) / NIL
VASIP	413318N 0082234W	N/A	FRA (I) / Holding Pattern
VATZI	373552N 0085147W	N/A	FRA (IA): LPPT, LPCS / Holding Pattern
VEDEL	395127N 0124012W	UZ23	FRA (I) / NIL
VELAS	383932N 0282131W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
VENOL	370424N 0081524W	N/A	FRA (I) / Holding Pattern
VEPOP	192203N 0333403W	N/A	NIL / SANTA MARIA / SAL FIR BDRY
VERAM	364621N 0134031W	R1, UN741, UZ11	FRA (I) / NIL
VIBOC	390145N 0272218W	N/A	NIL / LPLA Holding Pattern
VOROC	384702N 0270616W	N/A	NIL / LPLA Holding Pattern
XAMAX	400152N 0083210W	A5	FRA (I) FRA (A): LPPT, LPCS / Holding Pattern
XANEL	392411N 0121213W	UM190	FRA (I) / NIL
XAPAS	373550N 0075700W	R72, Y102	FRA (I) FRA (D): LPFR
XAPIM	410441N 0083812W	N/A	FRA (I) / NIL
XEGEN	321859N 0160058W	N/A	NIL / MADEIRA CONTINGENCY
XERES	420126N 0100405W	UM190, UN981	FRA (X): EVEN FL FRA (E): ODD FL MADRID / LISBOA FIR BDRY

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage 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
XERON	322253N 0165637W	N/A	NIL / MADEIRA CONTINGENCY
XETOS	384132N 0264754W	N/A	NIL / LPLA Holding Pattern
XIBOT	181515N 0352648W	N/A	NIL / SANTA MARIA / SAL FIR BDRY
XOGRA	382412N 0290117W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
XORVU	393750N 0303907W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
XUVAP	373521N 0251301W	N/A	NIL / SANTA MARIA TMA, Holding Pattern EXIT SID LPAZ
ZACRA	382048N 0090623W	N/A	FRA (I) / NIL
ZEZZU	383805N 0091920W	N/A	NIL / NIL
ZIFOG	384147N 0104016W	N/A	FRA (ID): LPPT, LPCS

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.

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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	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	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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
ARCELA - SOBRAL DE MONTE AGRACO	AEOLIC PARK (3/5)	385921N 0090854W	525M / 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 (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
AZINHEIRA (CELORICO DE BASTO)	WINDMILL (2/8)	412553N 0080324W	924M / 119M	
AZINHEIRA (CELORICO DE BASTO)	WINDMILL (3/8)	412544N 0080323W	924M / 119M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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)	393606N0083329W	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
BAIXO ALENTEJO - MERTOLA	WINDMILL (2/19)	372858N 0074842W	431M / 144M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (16/27)	370910N 0084742W	282M / 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 (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
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (1/17)	402412N 0071620W	951M / 126M	By day: Flashing White lights By night: Fixed Red lights
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (2/17)	402424N 0071614W	980M / 126M	
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (3/17)	402434N 0071610W	988M / 126M	
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (4/17)	402434N 0071600W	994M / 126M	By day: Flashing White lights By night: Fixed Red lights
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (5/17)	402451N 0071555W	980M / 126M	
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (6/17)	402504N 0071538W	1026M / 126M	
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (7/17)	402516N 0071605W	1013M / 126M	By day: Flashing White lights By night: Fixed Red lights
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (8/17)	402515N 0071551W	1037M / 126M	
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (9/17)	402515N 0071540W	1056M / 126M	By day: Flashing White lights By night: Fixed Red lights
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (10/17)	402536N 0071425W	1018M / 126M	By day: Flashing White lights By night: Fixed Red lights
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (11/17)	402544N 0071423W	1036M / 126M	
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (12/17)	402554N 0071513W	1054M / 126M	By day: Flashing White lights By night: Fixed Red lights
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (13/17)	402555N 0071458W	1040M / 126M	
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (14/17)	402554N 0071422W	1060M / 126M	
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (15/17)	402602N 0071508W	1076M / 126M	
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (16/17)	402601N 0071443W	1088M / 126M	By day: Flashing White lights By night: Fixed Red lights
BENESPERA - BELMONTE - GUARDA - SABUGAL	WINDMILL (17/17)	402559N 0071433W	1082M / 126M	By day: Flashing White lights By night: Fixed Red lights
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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 PENA	WINDMILL (1/1)	413144N 0074311W	1167M / 136M	By Day: flashing white light By Night: Fixed red light
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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 (COELHOIRA)	AEOLIC PARK (1/20)	405043N 0081128W	1165M / 100M	By day: Flashing White Light By night: Flashing Red light
CANDAL (COELHOIRA)	AEOLIC PARK (2/20)	405041N 0081115W	1199M / 100M	
CANDAL (COELHOIRA)	AEOLIC PARK (3/20)	405040N 0081103W	1208M / 100M	
CANDAL (COELHOIRA)	AEOLIC PARK (4/20)	405035N 0081057W	1200M / 100M	By day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOIRA)	AEOLIC PARK (5/20)	405031N 0081050W	1194M / 100M	
CANDAL (COELHOIRA)	AEOLIC PARK (6/20)	405029N 0081041W	1193M / 100M	
CANDAL (COELHOIRA)	AEOLIC PARK (7/20)	405023N 0081033W	1183M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOIRA)	AEOLIC PARK (8/20)	405020N 0081025W	1187M / 100M	
CANDAL (COELHOIRA)	AEOLIC PARK (9/20)	405016N 0081016W	1196M / 100M	
CANDAL (COELHOIRA)	AEOLIC PARK (10/20)	405016N 0081007W	1170M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOIRA)	AEOLIC PARK (11/20)	405038N 0080915W	1138M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOIRA)	AEOLIC PARK (12/20)	405043N 0080909W	1154M / 100M	
CANDAL (COELHOIRA)	AEOLIC PARK (13/20)	405043N 0080855W	1137M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOIRA)	AEOLIC PARK (14/20)	405038N 0080849W	1141M / 100M	
CANDAL (COELHOIRA)	AEOLIC PARK (15/20)	405034N 0080840W	1147M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOIRA)	AEOLIC PARK (16/20)	405029N 0080833W	1157M / 100M	
CANDAL (COELHOIRA)	AEOLIC PARK (17/20)	405020N 0080831W	1160M / 100M	
CANDAL (COELHOIRA)	AEOLIC PARK (18/20)	405016N 0080824W	1145M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHOIRA)	AEOLIC PARK (19/20)	405001N 0080807W	1120M / 100M	
CANDAL (COELHOIRA)	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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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
CASAI 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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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	
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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	
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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 00741 0W	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	
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)	4005 3N 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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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 - BILHO - ERMELO - MONDIM DE BASTO	WINDMILL (1/5)	412439N 0074722W	1401M / 126M	By Day: flashing white light By Night: Fixed red light
GEVANCAS II - BILHO - ERMELO - MONDIM DE BASTO	WINDMILL (2/5)	412428N 0074729W	1386M / 126M	
GEVANCAS II - BILHO - ERMELO - MONDIM DE BASTO	WINDMILL (3/5)	412420N 0074734W	1372M / 126M	By Day: flashing white light By Night: Fixed red light
GEVANCAS II - BILHO - ERMELO - MONDIM DE BASTO	WINDMILL (4/5)	412412N 0074737W	1379M / 126M	
GEVANCAS II - BILHO - ERMELO - MONDIM DE BASTO	WINDMILL (5/5)	412403N 0074744W	1382M / 126M	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	
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
LOURINHÃ II	WINDMILL (1/10)	391555N 0091453W	310M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHÃ II	WINDMILL (2/10)	391557N 0091445W	316M / 126M	
LOURINHÃ II	WINDMILL (3/10)	391601N 0091438W	319M / 126M	
LOURINHÃ II	WINDMILL (4/10)	391602N 0091426W	319M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHÃ II	WINDMILL (5/10)	391601N 0091417W	326M / 126M	
LOURINHÃ II	WINDMILL (6/10)	391556N 0091408W	316M / 126M	
LOURINHÃ II	WINDMILL (7/10)	391553N 0091357W	308M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHÃ II	WINDMILL (8/10)	391554N 0091343W	307M / 126M	
LOURINHÃ II	WINDMILL (9/10)	391552N 0091333W	310M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHÃ II	WINDMILL (10/10)	391601N 0091551W	347M / 180M	By Day: Flashing white light By Night: Fixed red light
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (1/14)	400616N 0081233W	1054M / 129M	By Day: Flashing white light By Night: Fixed red light
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (2/14)	400618N 0081215W	1033M / 129M	
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (3/14)	400624N 0081202W	1088M / 129M	
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (4/14)	400623N 0081151W	1100M / 129M	By Day: Flashing white light By Night: Fixed red light
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (5/14)	400603N 0081046W	1208M / 129M	By Day: Flashing white light By Night: Fixed red light
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (6/14)	400611N 0081043W	1153M / 129M	
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (7/14)	400618N 0081038W	1111M / 129M	
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (8/14)	400630N 0081025W	1023M / 129M	By Day: Flashing white light By Night: Fixed red light
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (9/14)	400637N 0081019W	982M / 129M	
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (10/14)	400644N 0081013W	969M / 129M	
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (11/14)	400652N 0081009W	956M / 129M	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
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (12/14)	400700N 0081009W	912M / 129M	
LOUSÃ I (LOUSÃ - GÓIS)	AEOLIC PARK (13/14)	400709N 0081010W	916M / 129M	
LOUSÃ I (LOUSÃ - 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	
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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	
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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	
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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	
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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	
PINHAL INTERIOR - PROENCA	WINDMILL (10/24)	394829N 0075257W	989M / 121M	By day: Flashing white light By night: Flashing red light
PINHAL INTERIOR - PROENCA	WINDMILL (11/24)	394833N0075250W	985M / 101M	
PINHAL INTERIOR - PROENCA	WINDMILL (12/24)	394840N0075246W	975M / 101M	
PINHAL INTERIOR - PROENCA	WINDMILL (13/24)	394847N 0075245W	987M / 101M	By day: Flashing white light By night: Flashing red light
PINHAL INTERIOR - PROENCA	WINDMILL (14/24)	394854N0075242W	999M / 101M	
PINHAL INTERIOR - PROENCA	WINDMILL (15/24)	394859N0075242W	1018M / 101M	
PINHAL INTERIOR - PROENCA	WINDMILL (16/24)	394906N 0075243W	1046M / 101M	
PINHAL INTERIOR - PROENCA	WINDMILL (17/24)	394908N 0075257W	1033M / 101M	By day: Flashing white light By night: Flashing red light
PINHAL INTERIOR - PROENCA	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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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
POUSAFOLAS - SABUGAL	WINDMILL (1/14)	402148N 0071328W	885M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLAS - SABUGAL	WINDMILL (2/14)	402147N 0071316W	894M / 126M	
POUSAFOLAS - SABUGAL	WINDMILL (3/14)	402144N 0071305W	871M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLAS - SABUGAL	WINDMILL (4/14)	402204N 0071249W	871M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLAS - SABUGAL	WINDMILL (5/14)	402352N 0071146W	1017M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLAS - SABUGAL	WINDMILL (6/14)	402357N 0071152W	1021M / 126M	
POUSAFOLAS - SABUGAL	WINDMILL (7/14)	402403N 0071203W	1014M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLAS - SABUGAL	WINDMILL (8/14)	402412N 0071201W	1014M / 126M	
POUSAFOLAS - SABUGAL	WINDMILL (9/14)	402410N 0071134W	1004M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLAS - SABUGAL	WINDMILL (10/14)	402421N 0071218W	1026M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLAS - SABUGAL	WINDMILL (11/14)	402349N 0071056W	1008M / 126M	By Day: flashing white light By Night: Fixed red light
POUSAFOLAS - SABUGAL	WINDMILL (12/14)	402357N 0071025W	990M / 126M	By Day: flashing white light By Night: Fixed red light
POUSAFOLAS - SABUGAL	WINDMILL (13/14)	402405N 0071040W	991M / 126M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
POUSAFOLAS - SABUGAL	WINDMILL (14/14)	402407N 0071051W	980M / 126M	By Day: flashing white light By Night: 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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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 CORNELIO - SABUGAL	AEOLIC PARK (1/20)	402131N 0070953W	1026M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (2/20)	402200N 0070942W	1016M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (3/20)	402214N 0071021W	986M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (4/20)	402208N 0070958W	972M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (5/20)	402123N 0071046W	1041M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (6/20)	402215N 0070910W	1008M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (7/20)	402025N 0071143W	970M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (8/20)	402040N 0071134W	996M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (9/20)	402038N 0071124W	1005M / 126M	
SAO CORNELIO - SABUGAL	AEOLIC PARK (10/20)	402036N 0071112W	993M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (11/20)	402050N 0071051W	1029M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (12/20)	402049N 0071038W	1050M / 126M	
SAO CORNELIO - SABUGAL	AEOLIC PARK (13/20)	402051N 0071011W	1008M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (14/20)	402048N 0070952W	986M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (15/20)	402102N 0071035W	1046M / 126M	By day: Flashing White Light By night: Fixed Red Light
SAO CORNELIO - SABUGAL	AEOLIC PARK (16/20)	402108N 0071043W	1071M / 126M	By Day: flashing white light By Night: flashing red light
SAO CORNELIO - SABUGAL	AEOLIC PARK (17/20)	402034N 0071007W	978M / 126M	By Day: flashing white light By Night: flashing red light
SAO CORNELIO - SABUGAL	AEOLIC PARK (18/20)	402055N 0071021W	1030M / 126M	
SAO CORNELIO - SABUGAL	AEOLIC PARK (19/20)	402156N 0070928W	996M / 126M	By Day: flashing white light By Night: flashing red light
SAO CORNELIO - SABUGAL	AEOLIC PARK (20/20)	402208N 0071015W	990M / 126M	
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	
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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 (TENDAS)	AEOLIC PARK (1/5)	410001N 0080526W	1236M / 100M	Flashing Red Light
SAO PEDRO (TENDAS)	AEOLIC PARK (2/5)	405950N 0080529W	1262M / 100M	
SAO PEDRO (TENDAS)	AEOLIC PARK (3/5)	405942N 0080529W	1264M / 100M	Flashing Red Light
SAO PEDRO (TENDAS)	AEOLIC PARK (4/5)	405933N 0080525W	1236M / 100M	
SAO PEDRO (TENDAS)	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	
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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	
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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	
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (13/21)	412439N 0074457W	1351M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (14/21)	412428N 0074457W	1359M / 110M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SERRA DO ALVAO - RIBEIRA DE PENHA / VILA REAL	WINDMILL (15/21)	412422N 0074508W	1405M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENHA / VILA REAL	WINDMILL (16/21)	412607N 0074358W	1269M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENHA / VILA REAL	WINDMILL (17/21)	412719N 0074412W	1255M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENHA / VILA REAL	WINDMILL (18/21)	412734N 0074446W	1235M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENHA / VILA REAL	WINDMILL (19/21)	412727N 0074448W	1245M / 110M	Red Stripes in the propeller blades
SERRA DO ALVAO - RIBEIRA DE PENHA / VILA REAL	WINDMILL (20/21)	412719N 0074448W	1223M / 110M	
SERRA DO ALVAO - RIBEIRA DE PENHA / 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)	414057N0075042W	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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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 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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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 SICO - POMBAL	WINDMILL (1/10)	395625N 0083348W	492M / 126M	By day: Flashing White lights By night: Fixed Red lights
SERRA DO SICO - POMBAL	WINDMILL (2/10)	395620N 0083338W	520M / 126M	
SERRA DO SICO - POMBAL	WINDMILL (3/10)	395615N 0083330W	515M / 126M	By day: Flashing White lights By night: Fixed Red lights
SERRA DO SICO - POMBAL	WINDMILL (4/10)	395552N 0083342W	510M / 126M	By day: Flashing White lights By night: Fixed Red lights
SERRA DO SICO - POMBAL	WINDMILL (5/10)	395541N 0083348W	496M / 126M	
SERRA DO SICO - POMBAL	WINDMILL (6/10)	395525N 0083414W	512M / 126M	By day: Flashing White lights By night: Fixed Red lights
SERRA DO SICO - POMBAL	WINDMILL (7/10)	395529N 0083356W	503M / 126M	By day: Flashing White lights By night: Fixed Red lights
SERRA DO SICO - POMBAL	WINDMILL (8/10)	395516N 0083404W	515M / 126M	
SERRA DO SICO - POMBAL	WINDMILL (9/10)	395501N 0083411W	500M / 126M	By day: Flashing White lights By night: Fixed Red lights
SERRA DO SICO - POMBAL	WINDMILL (10/10)	395458N 0083401W	503M / 126M	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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

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 (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	
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
TROVISCAL - SABUGAL	AEOLIC PARK (1/8)	401918N 0071243W	914M / 126M	By day: Flashing White Light By night: Fixed Red Light
TROVISCAL - SABUGAL	AEOLIC PARK (2/8)	401916N 0071232W	876M / 126M	By day: Flashing White Light By night: Fixed Red Light
TROVISCAL - SABUGAL	AEOLIC PARK (3/8)	401914N 0071219W	892M / 126M	By day: Flashing White Light By night: Fixed Red Light
TROVISCAL - SABUGAL	AEOLIC PARK (4/8)	401902N 0071237W	887M / 126M	
TROVISCAL - SABUGAL	AEOLIC PARK (5/8)	401904N 0071222W	900M / 126M	
TROVISCAL - SABUGAL	AEOLIC PARK (6/8)	401902N 0071209W	860M / 126M	By day: Flashing White Light By night: Fixed Red Light
TROVISCAL - SABUGAL	AEOLIC PARK (7/8)	401904N 0071156W	853M / 126M	By day: Flashing White Light By night: Fixed Red Light
TROVISCAL - SABUGAL	AEOLIC PARK (8/8)	401912N 0071218W	868M / 126M	
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
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
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	

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 (6/17)	411857N 0075341W	1141M / 131M	
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
VILA NOVA II - MIRANDA DO CORVO	AEOLIC PARK (11/14)	400159N 0081810W	922M / 126M	By day: Flashing white light By night: Fixed red light
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 6 EN-ROUTE CHARTS**6.1 INDEX OF CHARTS**

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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
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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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AIR TRAFFIC SERVICE SYSTEM
ENROUTE CHART - ICAO
LPPC FREE ROUTE AIRSPACE ABOVE FL245
LPPC

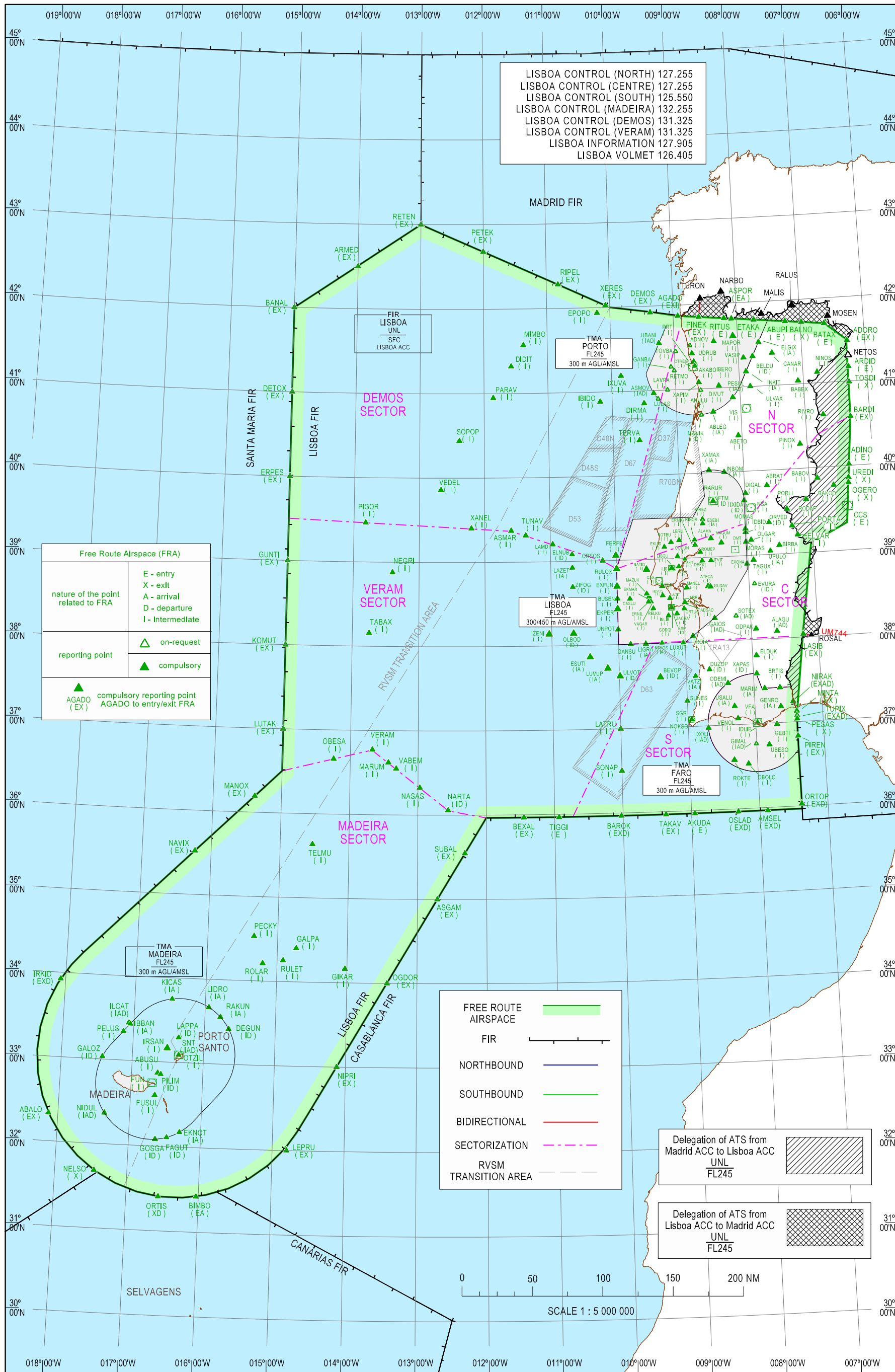


chart updated

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AD 2 AERODROMES**LPBJ AD 2.****LPBJ AD 2.1 AERODROME LOCATION INDICATOR AND NAME**

LPBJ - BEJA AIR BASE NR 11

LPBJ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site	LAT: 380444N LONG: 0075557W Intersection RWY 01L/19R and TWY D	
2	Direction and distance of ARP from city or town	9 KM (4.8 NM) NW from Beja	
3	Elevation/Reference temperature	194 M / 636 FT 32,3° C (AUG)	
4	Geoid undulation at aerodrome elevation position	55 M	
5	MAG VAR / Annual change	1° W (2020) / 0.17° decreasing	
6	AD Administration, address, telephone, telefax, telex, AFS	<p>CIVIL: ANA Aeroportos de Portugal, SA Terminal Civil de Beja EM 528 - 2, ao KM 3,3 7800-745 S. BRISSOS</p> <p>Terminal Civil de Beja Administration Phone: +351 284001020 Fax: +351 284001023 Email: beja.airport@ana.pt</p> <p>Terminal Civil de Beja Operations Phone: +351 284001021 Phone: +351 962410265 (Mobile) Phone: +351 961965930 (Mobile) Phone: +351 960102717 (Mobile)</p> <p>Fax: +351 284001022 Email: abjoperacoes@ana.pt</p> <p>Person in charge of Terminal Civil de Beja (Maurício Nunes) Phone: +351 969146613 FAX: +351 284001023 Email: mpnunes@ana.pt</p>	<p>MIL: Commander, Air Base Nº 11 Base Aérea Nº 11 7800-958 BEJA PORTUGAL Phone: +351 284314530 / 777</p> <p>OPS Duty Officer Fax: +351 284314706 Fax: +351 284324186</p> <p>Email: ba11_go_noa_soa@emfa.pt</p> <p>AFS: LPBJDYDA</p>
7	Types of traffic permitted (IFR/VFR)	IFR/VFR	
8	Remarks	NIL	

LPBJ AD 2.3 OPERATIONAL HOURS

1	AD Operator	AD Operational hours: MON/THU - 08:30 / 17:15 (07:30 / 16:15); FRI - 08:30 / 12:30 (07:30 / 11:30)* Civil Administration: Working days 08:30 / 18:00 (07:30 / 17:00) MIL Administration: H24.
2	Customs and immigration	As AD Operational hours, other periods on request.

3	Health and sanitation	Vet. Services - Live animals: 3 HR prior request.
4	AIS Briefing Office	MON/THU - 08:30 / 12:00 (07:30 / 11:00) and 13:00 / 17:15 (12:00 / 16:15); FRI - 08:30 / 12:00 (07:30 / 11:00)
5	ATS Reporting Office (ARO)	As AD Operational hours
6	MET Briefing Office	H24
7	ATS	As AD Operational hours
8	Fuelling	Services available on request.
9	Handling	Services are available on request, to be submitted not later than 5 HR prior to ETA and in accordance with PPR submission requirements.
10	Security	H24
11	De-icing	NIL
12	Remarks	*Aerodrome OPS HR extension may be approved until 23:59, with the submission of a PPR by the operator to the Terminal Civil de Beja with 3 HR minimum prior notice. SAT, SUN and Holidays use of LPBJ by civilian air traffic may be approved under PPR by the Operator to the 'Terminal Civil de Beja' Operations with at least 3 HR prior notice. (See Item 2.20).

LPBJ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities:	Cargo Terminal is available for cargo operations. Requires previous arrangement with Civil Administration. It is mandatory to have a Handling Agent that must be arranged by Operators.*
2	Fuel/oil types	JET A1 / Information not available.
3	Fuelling facilities/capacity	Refuelling capacity 100 000 litres (refuelling truck plus tanks). Delivery rate 2 000 litres per minute.**
4	De-icing facilities	NIL
5	Hangar space available for visiting aircraft	Not AVBL
6	Repair facilities for visiting aircraft	By arrangement ***

7	Remarks	<p>*Ground Handling Services Companies contacts:</p> <p>PORTWAY - Handling de Portugal, S.A. Contact: César Augusto/ Célia Cabral / Fernando Fragoso Mobile: +351 968980065 / +351 967432227 Phone: +351 218445000 Fax: +351 218445100 E-mail: celia.cabral@portway.pt cesar.augusto@portway.pt fernando.fragoso@portway.pt</p> <p>SAFEPORT EXECUTIVE - Handling Services Mobile: +351 918090035 Phone: +351 210040420 Fax: +351 210040401 E-mail: lisbon@safeport.aero www.safeport.aero</p> <p>OMNI HANDLING - Beja Mobile: +351 910081641 Fax: +351 289800788 Email: beja@omnihandling.com Site: www.omnihandling.com</p> <p>CATERING SERVICES: On Request Contacts: LSKY, Inflight Catering (H24) Phone: +351 210040030 E-Mail: ops@lsky.pt</p> <p>**Fuel Supplier contact:</p> <p>PETROGAL, S.A. Contact: João Menezes (Aviation Account Manager) Mobile: +351 935500415 Phone: +351 217242683 Fax: +351 217242951 E-mail: joao.c.menezes@galp.com</p> <p>***Repair facilities:</p> <p>Address: MESA - Maintenance & Engineering Quinta de Figo Maduro - Rua 1º de Maio 2685-388 PRIOR VELHO – PORTUGAL Phone: +351 210058412 E-mail: commercial@mesa.aero</p>
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LPBJ AD 2.5 PASSENGER FACILITIES

1	Hotels	In Beja city
2	Restaurants	In Beja city Beja Park Caffè MON-FRI 08H30/17H00 Phone: +351 284 310 500 Email: comercial@bejaparquehotel.com
3	Transportation	Buses, taxis and rent-a-car at Beja, on request.
4	Medical facilities	First-aid station, medical assistance, ambulances, hospital in Beja (11KM)
5	Bank and Post Office	In Beja city
6	Tourist Office	In Beja city
7	Remarks	NIL

LPBJ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 8 within AD operational hours. Other times CAT 7 PPR 3 HR trough LPAMYWYB and LPBJZPZX.
2	Rescue equipment	According to ICAO Doc. 9137, Part 1, Tab. 5.2
3	Capability for removal of disabled aircraft	All aircraft up to A320 *
4	Remarks	*Equipment to be provided by LPFR and/or LPPT

LPBJ AD 2.7 RUNWAY SURFACE CONDITION ASSESSEMENT AND REPORTING AND SNOW PLAN

1	Type(s) of clearing equipment	Sweepers
2	Clearance priorities	Runway, Taxiway and Apron
3	Use of material for movement area surface treatment	NIL
4	Specially prepared winter runways	NIL
5	Remarks	Aerodrome available all seasons

LPBJ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron Surface and Strength	APRON		SURFACE		STRENGTH	
		1 / 2 / 3	Concrete	PCN 55/R/B/W/U			
		4 / 5 / 6	Concrete	PCN 41/R/B/W/U			
		CIVIL TERMINAL	Concrete	PCN 66/R/B/W/T			
2	Taxiway width, surface and strength	TAXIWAY		WIDTH	SURFACE	STRENGTH	
		A1	30 M (98 FT)	Concrete	PCN 68/R/C/W/T		
		B1			PCN 77/R/C/W/T		
		D			15 M (49 FT)	PCN 67/R/C/W/T	
		E1	30 M (98 FT)		PCN 83/R/C/W/T		
		G1			PCN 95/R/C/W/T		
		A2,B2,B3,C,E2,F1,F2,G2,G3	15 M (49 FT)		PCN 55/R/B/W/U		
		H		Asphalt	PCN 26/F/D/W/U		
		J	23 M (75 FT)		PCN 139/F/B/W/T		
3	Altimeter Checkpoint location and elevation	LOCATION			ELEVATION		
		THR 01L			628 FT / 191 M		
		THR 19R			624 FT / 190 M		
4	VOR Checkpoint locations	Not established					
5	INS Checkpoint positions	RAMP / STAND	INS COORDINATES	ELEVATION (M/AMSL)	ACFT TYPE (CRITICAL)	PUSH BACK TO TWY/ TAXILANE	
		Not established	NIL	NIL	NIL	NIL	
6	Remarks	- Only Apron 3 and part of Apron 4 available, under prior request through Civil Administration					

LPBJ 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	NIL
2	RWY/TWY markings and lights	Markings: RWY designation, centreline, edge, end, THR, touchdown, aiming points and Information signs. TWY centreline, edge marks and holding position, mandatory instruction signs for TWY A1, B1, D, E1, G1 and J and location signs for TWY G1 and J. Lights: RWY edge, end, THR and RTIL for RWY 01L/19R. TWY edge. Guard lights for TWY J.
3	Stop bars	TWY J
4	Remarks	Illuminated RWY Distance Markers

LPBJ AD 2.10 AERODROME OBSTACLES**In approach/TKOF areas**

OBST ID Designation	OBST Type	OBST Position	Elevation / HGT	Markings Type, Colour	Remarks
a	b	c	d	e	f
LPBJ 01	NATURAL_HIGHPOINT	380001.0N 0075612.1W	712 FT	NIL	
LPBJ 02	TOWER	380437.5N 0075447.7W	818 FT	Lighted	RWY 01L/19R
LPBJ 03	NATURAL_HIGHPOINT	380647.3N 0075547.3W	634 FT	NIL	
LPBJ 04	NATURAL_HIGHPOINT	380651.7N 0075613.0W	703 FT	NIL	

In circling area and at aerodrome

OBST ID Designation	OBST Type	OBST Position	Elevation / HGT	Markings Type, Colour	Remarks
a	b	c	d	e	f
LPBJ 05	ANTENNA	380352N 0075558W	663 FT	Marked/Lighted	Wind Sensor
LPBJ 06	ANTENNA	380441N 0075553W	647 FT	Marked/Lighted	Wind Sensor
LPBJ 07	ANTENNA	380445N 0075603W	653 FT	Marked/Lighted	Wind Sensor
LPBJ 08	MAST	380348N 0075613W	639 FT	Not Marked/ Unlighted	

LPBJ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	LPBJ
2	Hours of service	H24
3	Office responsible for TAF preparation Periods of validity	LPBJ / GIMFA 24 HR – issuance every 6 hours
4	Trend Forecast Interval of issuance	NIL
5	Briefing/consultation provided	P,T

6	Flight documentation Language(s) used	C, CR, PL EN, PT
7	Charts and other information available for briefing or consultation	S, P, W, SWM, SWH, SEA
8	Supplementary equipment available for providing information	SATEL, WXR
9	ATS units provided with information	Beja Approach and Beja Tower
10	Additional information (limitation of service, etc.)	OPS: Phone: +351 284314768 Ext.: 550268/3/4 Fax: +351 284314586 Ext: 550247 Email:ba11_go_ead_ameteo_op@emfa.pt

LPBJ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations	TRUE BRG	Dimensions of RWY(M)	Strength (PCN) and surface of RWYand SWY	THR COORD RWY End COORD THR Geoid Undulation	THR elevation and highest elevation of TDZ of precision APCH RWY	Slope of RWY/SWY
1	2	3	4	5	6	7
01L	005.93°	3450X60	PCN 44/R/B/W/T Concrete	THR 01L 380348.41N 0075603.93W GUND 55.1M	THR ELEV191M	NIL
19R	185.93°			THR 19R 380539.70N 0075549.30W GUND 55.1M	THR ELEV 190.2M	NIL
01R*	005.93°	3449X30	PCN 45/R/B/W/T Concrete	THR 01R 380355.60N 0075554.11W GUND 55.1M	THR ELEV 193M	NIL
19L*	185.93°			THR 19L 380530.78N 0075541.61W GUND 55.1M	THR ELEV 188M	NIL

ARRESTING GEAR:

RWY 01L and 19R, 59FT from THR on overrun.

Designations	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA	OFZ	Remarks
1	8	9	10	11	12	13
01L	*275X60	365X150	4120X150	215X120	NIL	RWY SLIPPERY WHEN WET.
19R	*275X60	590X150		215X120	NIL	* Not to be considered in Civil Aviation Operations
01R	NIL	NIL	NIL	NIL	NIL	Operational status: RWY available only for taxiing operations.
19L	NIL	NIL	NIL	NIL	NIL	

6	Repair facilities for visiting aircraft	<p>Minor repairs by arrangement with: Aeromec-Manutenção de Aeronaves URL:https://aeromec.pt/ Email:aog@aeromec.pt Phone:+351 915337458</p> <p>Helisuporte URL:https://www.heliportugal.pt/helisuporte/ Email:info@heliportugal.pt Phone:+351 214447230 Fax:+351 214448067</p> <p>IFA industries URL:https://ifa-industries.com/contactos/ Email:info@ifa-industries.com Phone:+351 214440553</p> <p>Seven Air - Maintenance URL:https://maintenance.sevenair.com/ Email:info@sevenair.com Phone:+351 214444545 Fax:+351 214459369</p> <p>Tag Aviation URL:https://www.tagaviation.com/en/maintenance-services/lisbon/lisbon-maintenance-centre/ Email:maintenance.lisbon@tagaviation.com Phone:+351 210322824 (AOG) Phone:+41 227170000 (std)</p>
7	Remarks	Oxygen and related servicing: only on request

LPCS AD 2.5 PASSENGER FACILITIES

1	Hotels	Near the aerodrome, in Cascais and Lisboa.
2	Restaurants	AD Restaurant
3	Transportation	Bus, taxi and rent-a-car from the aerodrome.
4	Medical facilities	First Aid Treatment; Ambulance; Hospital in Alcabideche 8KM (4.5NM)
5	Bank and Post Office	In the vicinity of aerodrome
6	Tourist Office	NIL
7	Remarks	NIL

LPCS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 5 Higher category up to CAT 7 subject to confirmation by PPR to Cascais Airport operations SOA at least 24 hours prior to operation, via email: soa@cascaisairport.pt
2	Rescue equipment	In accordance with Table 5.2 of ICAO DOC. 9137 - AN/898 PART I and Regulamento n.º. 401/2017 ANAC.
3	Capability for removal of disabled aircraft	High stability pneumatic lifting bags.
4	Remarks	Available between 07:00 and 23:59 (06:00 and 22:59)

LPCS 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.

LPCS AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron Surface and Strength	APRON	SURFACE	STRENGTH	
		A	Asphalt	PCN 03/F/C/W/T	
B1	PCN 03/F/C/W/T				
B2	PCN20/F/A/W/T				
C	PCN13/R/A/W/T				
D	PCN21/R/A/W/T				
E	PCN12/R/B/W/T				
2	Taxiway width, surface and strength	TAXIWAY	WIDTH	SURFACE	STRENGTH
		F	8 M	Asphalt	PCN19/F/C/W/T
		H	17 M		PCN19/F/C/W/T
		G	17 M		PCN19/F/C/W/T
		J	17 M		PCN25/F/B/W/T
		K	17 M		PCN26/F/A/W/T
		L	17 M		PCN26/F/A/W/T
		R	17 M		PCN19/F/C/W/T
		S	17 M		PCN19/F/C/W/T
		W	18 M		PCN35/F/B/W/T
		N, O, P	19 M		PCN 19/F/C/W/T
		TAXILANE	WIDTH		SURFACE
		M	15M	Asphalt	PCN35/F/B/W/T
		A1	15M		PCN 03/F/C/W/T
3	Altimeter Check Location and Elevation	LOCATION		ELEVATION	
		THR 17		326FT	
		THR 35		287FT	
4	VOR Check Points location	See Chart LPCS AD 2.24.01-1			
5	INS Check Points positions	See Chart LPCS AD 2.24.02-1			
6	Remarks	NIL			

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

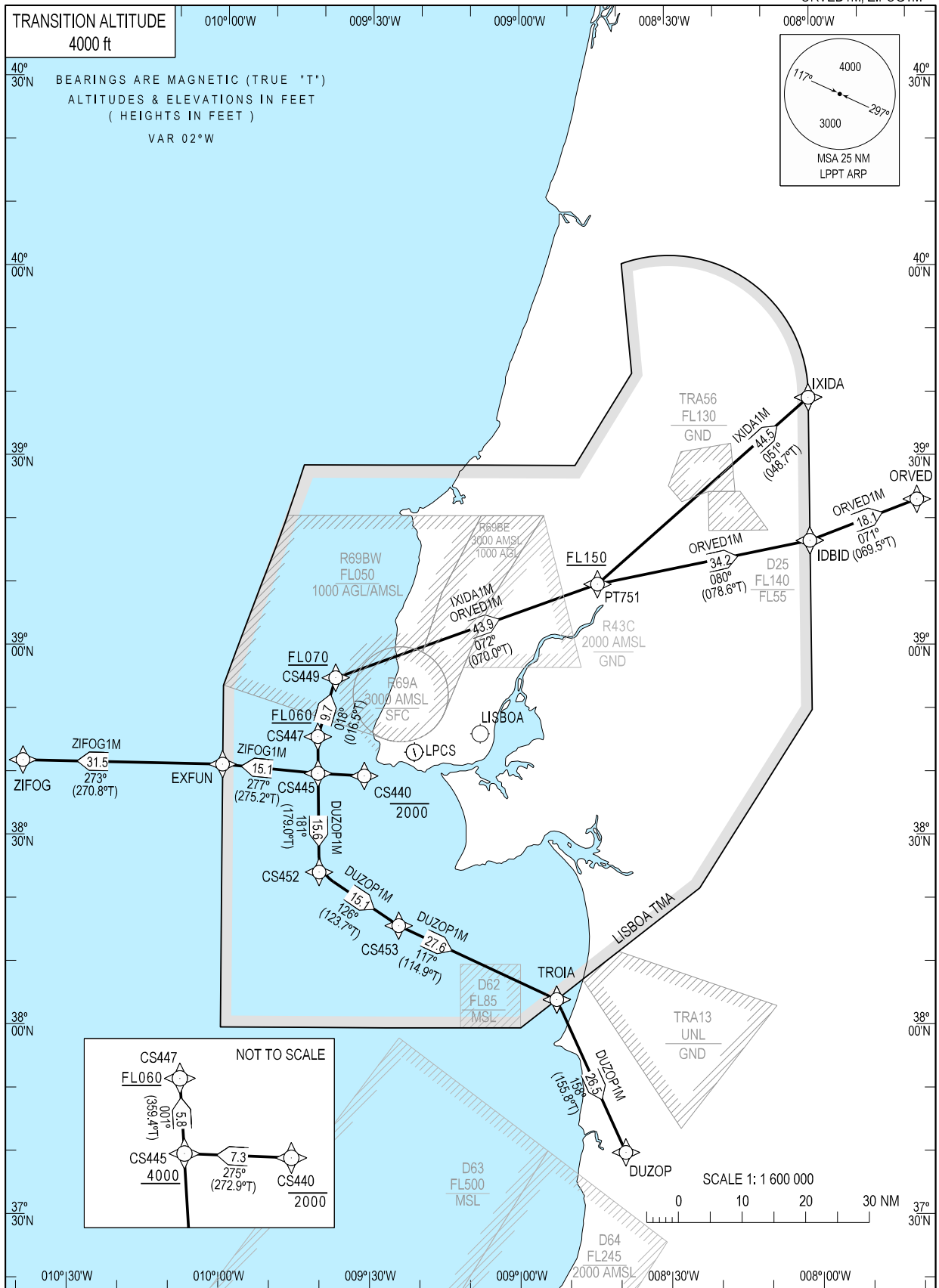
Name	Page
AERODROME CHART - ICAO	LPCS AD 2.24.01-1
AIRCRAFT PARKING/DOCKING CHART ICAO - APRONS C AND D	LPCS AD 2.24.02-1
AIRCRAFT PARKING/DOCKING CHART ICAO - APRONS A AND B	LPCS AD 2.24.02-3
AIRCRAFT PARKING/DOCKING CHART ICAO - APRON E	LPCS AD 2.24.02-5
STANDARD DEPARTURE INSTRUMENT (SID) - RWY 17	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	FL60	-	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)	-	-	+2000 ft	-	RNAV 1	After departure climb FL060. If unable to comply with Level Constraints advise ATC.
DF	CS440	N	383945.06N 0093125.08W	-	-	Right	-3000 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)	-	-	+2000 ft	-	RNAV 1	After departure climb FL060.
DF	CS440	N	383945.06N 0093125.08W	-	-	Right	-3000 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	-	+FL060	-	RNAV 1	
TF	ZIFOG	N	384147.25N 0104015.58W	273 (270.8)	31.5223	-	-	-	RNAV 1	

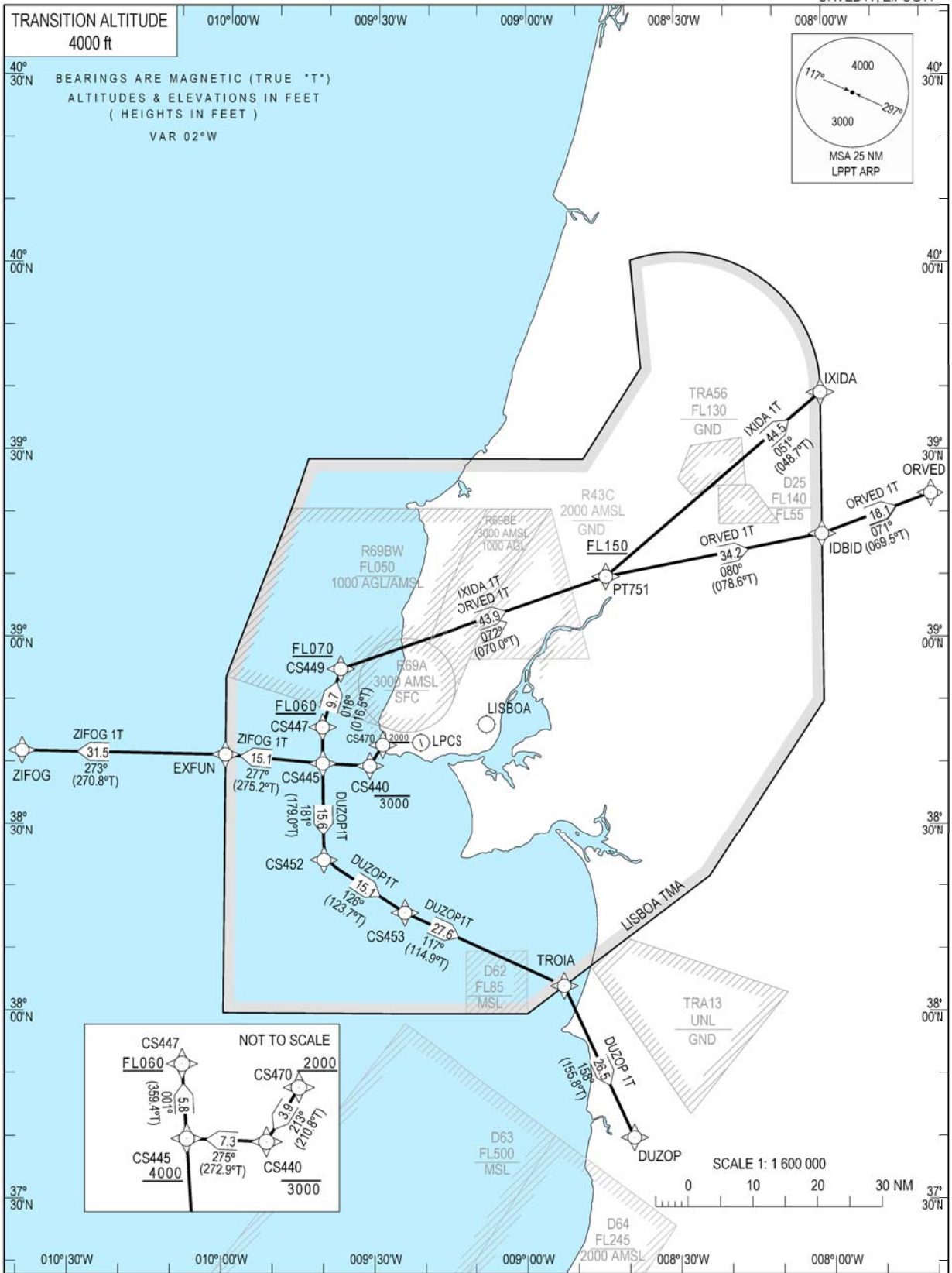
Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
ZIFOG1M	After departure climb straight ahead. Crossing 800FT ALT, turn right to CS440, then CS445 - EXFUN - ZIFOG	FL060	-	After departure climb FL060.

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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 0092852.04W	-	-	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.
TF	CS440	N	383945.06N 0093125.08W	213 (210.8)	3.9016	-	-3000 ft	-	RNAV 1	
TF	CS445	N	384007.17N 0094044.45W	275 (272.9)	7.3112	-	+4000 ft	-	RNAV 1	
TF	CS452	N	382430.91N 0094024.29W	181 (179.0)	15.5905	-	+FL060	-	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	
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 0092852.04W	-	-	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.
TF	CS440	N	383945.06N 0093125.08W	213 (210.8)	3.9016	-	-3000 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	
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 0092852.04W	-	-	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.
TF	CS440	N	383945.06N 0093125.08W	213 (210.8)	3.9016	-	-3000 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	
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 0092852.04W	-	-	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.
TF	CS440	N	383945.06N 0093125.08W	213 (210.8)	3.9016	-	-3000 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	-	+FL060	-	RNAV 1	
TF	ZIFOG	N	384147.25N 0104015.58W	273 (270.8)	31.5223	-	-	-	RNAV 1	

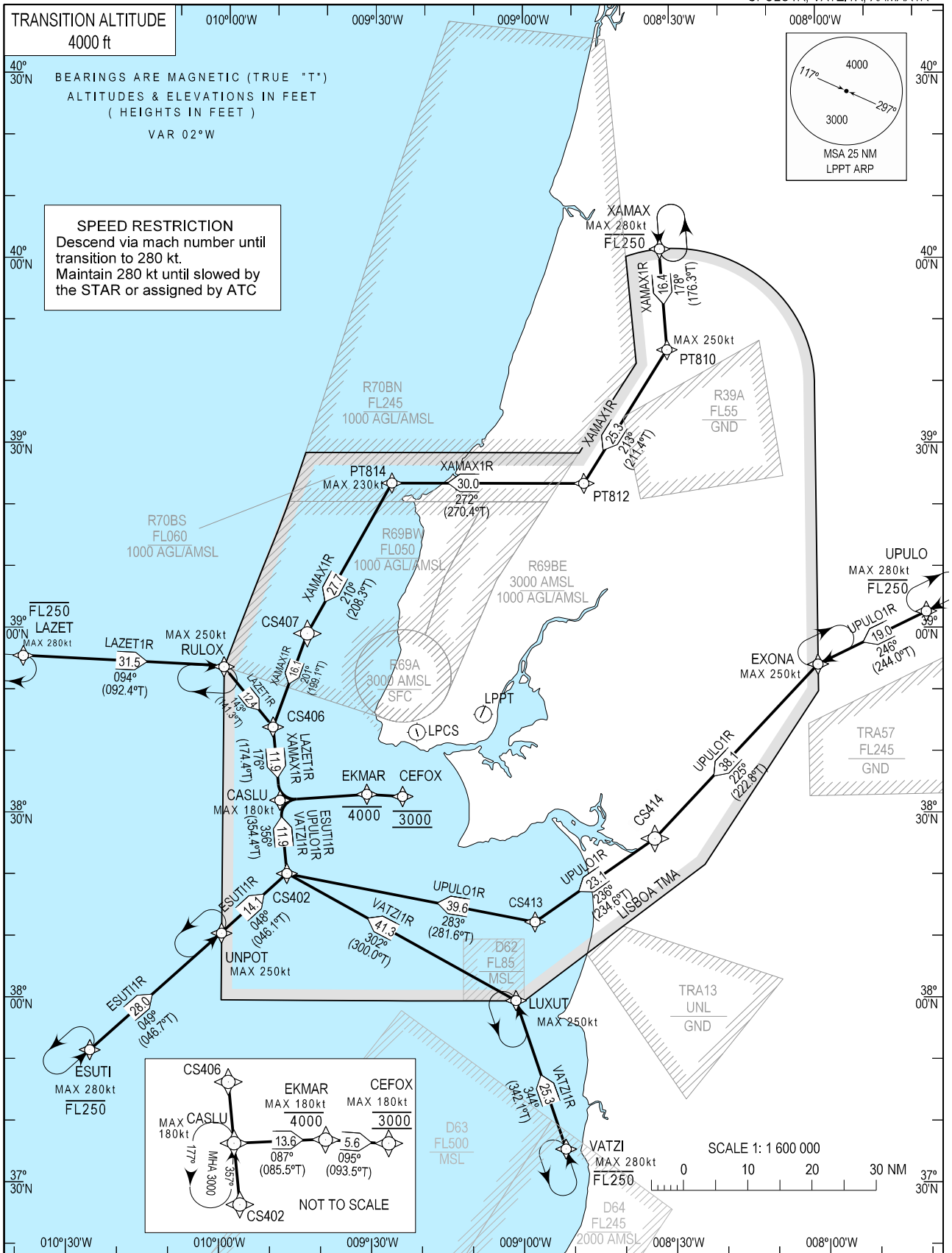
Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
ZIFOG1T	After departure turn left as soon as possible to CS470 (IDF), then proceed to CS440 - CS445 - EXFUN - ZIFOG	FL060	-	Immediate left turn after departure to avoid military area LPR69A. Visual departure RWY 35. Maintain own terrain 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
ESUTI1R, 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	

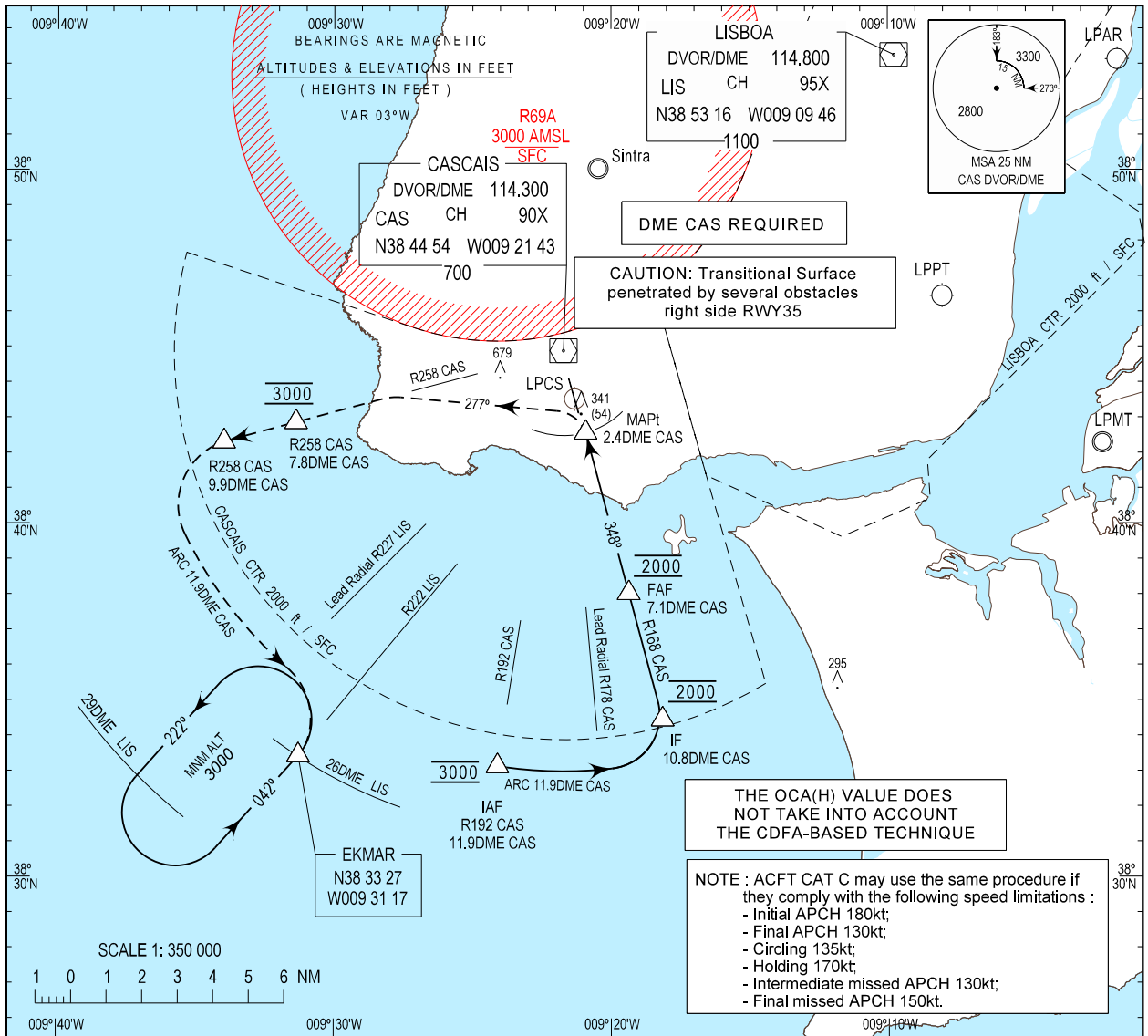
CASCAIS STAR RNAV1 VATZ1R (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	VATZI	N	373552.11N 0085147.09W	-	-	-	-FL250	@280 kt	RNAV 1	Clearance Limit CEFOX Pending 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	

INSTRUMENT
APPROACH
CHART - ICAO

AD ELEV 326 ft
HEIGHTS RELATED
THR RWY 35 - ELEV 287 ft

LISBOA APPROACH 119.105
CASCAIS TOWER 120.305
CASCAIS GROUND 121.830

CASCAIS (LPCS)
DVOR
RWY35
CAT A-B



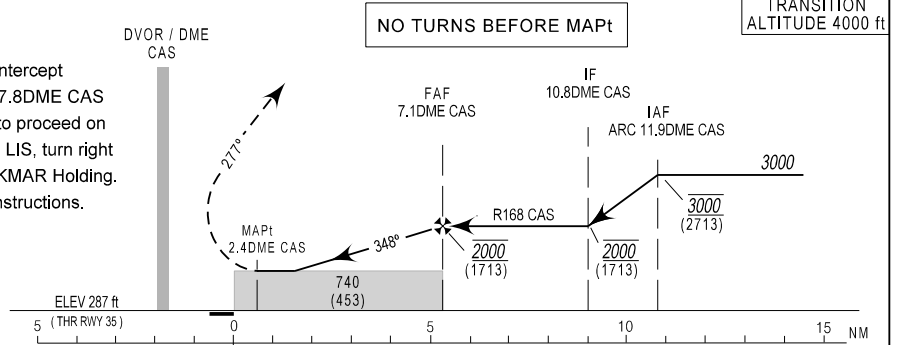
MISSED APPROACH:

Climb gradient 5%*. If unable, advise ATC.
At 2.4DME CAS, turn left on track 277° to intercept and proceed on R258 CAS to reach R258/7.8DME CAS at 3000 ft. At R258/9.9 DME CAS turn left to proceed on ARC 11.9 DME CAS. At Lead Radial R227 LIS, turn right to intercept and proceed on R222 LIS to EKMAR Holding. On EKMAR hold at 3000 ft or follow ATC instructions.

*Due to operational altitude constraint at R258/7.8DME CAS

RCF:

Proceed as above, Squawk 7600. On EKMAR Holding, make one complete holding pattern at 3000 ft. Then at R217/13.9DME CAS turn right to proceed on ARC 11.9 DME CAS. at Lead Radial R178 CAS, turn left to intercept R168 CAS to perform another approach.



CAT	MDA/H	OCH	CIRCLING RWY35	
			MDA/H	
A	820 (533)	453	990 (664)	
B			1060 (734)	

DME-CAS	6	5	4	3
ALTITUDE	1680	1360	1040	720
HEIGHT	(1393)	(1073)	(753)	(433)
DIST THR(NM)	4.2	3.2	2.2	1.2

SPEED	kt	80	100	120	130
Rate of descent (5.2%)	ft/min	420	525	630	685

Editorial changes

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4	True BRG of FATO	NIL
5	Declared distance available	NIL
6	APCH and FATO lighting	NIL
7	Remarks	NIL

LPFR AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	FARO CTR A circle with 5NM radius centred at VFA DVOR/DME and two rectangular surfaces defined by the following points: 365914N0080426W - 370013N0081118W -370508N0081014W - 370409N 0080310W. 370240N0075242W - 370139N0074538W - 365643N0074644W - 365742N0075336W.
2	Vertical limits	2000FT ALT (600M)
3	Airspace classification	C
4	ATS unit call sign / Language(s)	Faro Approach Faro Tower Faro Ground EN, PT
5	Transition altitude	4000FT
6	Remarks	NIL

LPFR AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
APP	FARO Approach	119.405 MHZ 121.500 MHZ 376.750 MHZ 243.000 MHZ	H24	Primary Emergency Emergency
TWR	FARO Tower	120.755 MHZ 121.500 MHZ 119.130 MHZ 376.750 MHZ 243.000 MHZ	H24	Primary Emergency Secondary Emergency
SMC	FARO Ground	118.580 MHZ	Broadcast by ATIS	Primary
ATIS	FARO Information	124.205 MHZ (arrivals) 121.560 MHZ (departures)	H24	ATIS Service also available by ACARS for aircraft equipped with ACARS Management Unit. Providers are: SITA for datalink communication and FARO Control for ATIS Services. Telephone Service: +351 289894198 or 2298 of NAV Portugal E.P.E. internal network.

LPFR 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
DME	DML	CH 92X	H24	374202.7N 0074549.1W	360 M	Coverage: 140 NM / FL 150
DME	DMX	CH 22X	H24	370944.5N 0083652.2W	60 M	Coverage: 100 NM / FL 150
DME	DPR	CH 52X	H24	372649.2N 0073524.8W	270 M	Coverage: 100 NM / FL 150
DME	DSL	CH 30X	H24	371827.2N 0075744.2W	600 M	Coverage: 80 NM / FL 150
DME	FAR	CH 49X	H24	370031.7N 0075532.9W	100FT	Coverage: 50NM
DVOR (01° W -2020)	VFA	112.80 MHZ	H24	370048.7N 0075830.0W		Coverage: 200NM FL500 Not Usable: 340°/060° blw 4000FT byd 40NM
DME	VFA	CH 75X	H24	370048.9N 0075829.6W	100FT	Coverage: 200NM FL 500 Not Usable: 340°/060° blw 4000FT byd 40NM
ILS RWY 28 (CAT II/T/4)						
LOC (01° W - 2020)	IIF	109.50 MHZ	H24	370103.3N 0075916.2W		Front Course angle: 4.6°
GP / DME	IIF	332.60 MHZ DME: CH 32X	H24	370046.7N 0075745.2W	100FT	GP angle: 3°
ILS RWY 10 (CAT I/C/4)						
LOC (01° W - 2020)	FIT	110.50 MHZ	H24	370046.9N 0075721.9W		Front Course angle: 4.6°
GP / DME	FIT	329.60 MHZ DME: CH 42X	H24	370056.5N 0075856.9W	100FT	GP angle: 3°

LPFR AD 2.20 LOCAL AERODROME REGULATIONS

1. Limitations on use of aerodrome

Restricted to ACFT capable of maintaining two-way communications with Faro TWR.
For airport slots request see GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT

2. Airport Operations Service

Airport Operations Service is an airport responsibility, accountable for:

- i. Ensure safe and expeditious movement of vehicles;
- ii. Provision of Marshalling Services;
- iii. Aircraft stands allocations;
- iv. Aircraft parking procedure and departure from the stand;

- v. Aircraft towing;
- vi. Granting permission for:
 - 1. Aircraft towing between stand/aprons;
 - 2. Aircraft refueling in the presence of passengers;
 - 3. Engine start up on stand;
 - 4. Engine test runs.
- vii. Inspections on movement area

All airport manoeuvring area inspections are coordinated with ATC. Follow-me vehicles are equipped with ATC radio receivers and marshalls maintain RADIO listening at all times in TWR (120.755MHz) or GND (118.580 MHz) frequencies.

If runway contamination occurs or changes, AOS will assess and inform ATC of runway conditions

Planning and aircraft parking positions changes are transmitted to ATC automatically.

In order to regulate movement with the objective of preventing collisions between aircrafts and between aircraft and obstacles. Follow-me vehicles or marshalls, may request to pilot of an aircraft to stop when taxiing.

FARO Airport Operations Service frequency:

- 1. Service designation: AOS - Airport Operations Service
- 2. Call Sign: FARO Safety
- 3. Frequency: 131.455MHZ
- 4. Hours of Operation: H24
- 5. Remarks: For matters related to refuelling in the presence of passengers; engine start up on stand; engine test run; APU INOP; other safety procedures.

3. **Push-Back, engine start-up and taxi procedures**

3.1 Push Back

Pilots should only request push-back when they are ready to do so (Ground staff and tug ready).

Aircraft outgoing from a nose in stand must be pushed back. Use of reverse thrust for manoeuvring is not permitted.

All push back manoeuvres should be done in accordance with the Bidirectional Breakaway points (BP) procedure in force. There are 18 Bidirectional BP, each one of them facing East or West depending on ATC clearance.

If unable to comply with the designated BP, handler must inform pilot, and pilot must inform ATC.

Other procedures may be assigned by ATC due to operational reasons.

Push and hold manoeuvres are coordinated with ATC and AOS - Airport Operations Service.

Aircraft will be parked in stands 321, 323 and 325 in outgoing nose out position. When cleared for taxi, pilots are reminded to use lower possible power settings.

Push-back and Start/Gate Entry for ILS CAT I/II Operations:

- 1. Push-back and Start/Gate Entry Procedures are assisted by marshaller and/or follow-me.
- 2. Departing aircraft shall wait for RVR improvement at the stand.

3.2 Engine Start-Up

Till 10 minutes prior to EOBT, departing traffic shall contact Faro Ground or Faro TWR, as announced by ATIS. This contact with ATC is to inform/receive:

- a. Parking Position
- b. ATIS ACK

- c. ATC Clearance which includes:
- Aircraft Identification
 - Clearance Limit, normally Destination Aerodrome
 - Designator of the assigned SID, if applicable. When receiving the Designator of the assigned SID, pilots shall comply with the published SID vertical profile and,
 - Any other necessary instructions or information not contained in the SID description, e.g., CTOT.

Start-up on stand and cross bleed starts must be coordinated with AOS - Airport Operations Service followed by the request to ATC (see also para 4.3)

Start-up is allowed during Push-Back manoeuvre.

Anti-Collision lights must be activated prior to Push-Back manoeuvre and whenever engines are operating.

3.3 Taxiing

Aircraft using aprons must taxi following the continuous yellow centre line marking apron axis and shall use the lowest possible power settings.

Pilots are reminded about the extreme importance of always maintaining a careful lookout.

Taxi caution required when taxiing into stands 314 to 324 (Apron N) and 432 to 466 (Apron NE) due to crossing of vehicle service road.

Due to operational reasons (e.g., waiting for available stand or slot compliance) taxiway ECHO may be used by ATC as an holding position for ACFTs.

Due to intake area, 4 engines ACFTs type like B747, A340 or similar are requested to taxi with outboard engines on "IDLE".

Taxi lights must be activated during taxiing and switch-off when in final position for parking.

3.4 Taxi for ILS CAT II Operations

General

Taxi instructions will be supported by the convenient switched on/off of taxiway centre line lights (green) and STOP BAR LIGHTS (red). So, Pilots shall stop and request further instructions at any STOP BAR lighted, as well as at any segment of taxiway centre line lights, unlighted.

Taxiway centre line lights within localizer sensitive area are coded by alternate yellow and green lights (See also AD 2.15)

- Departing Traffic
ATC will require departing aircraft to use CAT II holding positions.
- Arriving Traffic
The appropriate runway exit (TWY P) will be lighted, and pilots of arriving aircraft shall report the localizer sensitive area vacated when the aircraft is completely out of yellow and green taxiway centre line lights;
e.g. "LOCALIZER SENSITIVE AREA VACATED".

4. Use of Ground Power Unit (GPU), use of Auxiliary Power Unit (APU)

4.1 Use of GPU

The use of mobile autonomous GPU is not allowed when ACFT are parked at contact stands provided with Passenger Boarding Bridges (PBB) (314, 316, 318, 320, 322 and 324), except if GPU system at the PBB is unserviceable.

4.2 Use of APU

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

APU may be used at stands 314, 316, 318, 320, 322 and 324 as follows.

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

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

EXEMPTIONS: If air conditioning system at the PBB is unserviceable.

4.3 APU unserviceability

Whenever an ACFT APU is out of service, crew shall advise ATC or AOS- Airport Operations Service using Faro Safety frequency 131.455 MHz.

On contact stands provided with PBB, whenever an APU is out of service, only one engine start-up is permitted on the stand. A PPR - Prior Permission Request shall be granted by AOS - Airport Operations Service, before Start-up clearance from Faro TWR.

Follow-Me assistance is mandatory.

5. Engine test runs

Engine test runs are allowed from 06:05 (05:05) to 23:59 (22:59) on the condition that a PPR was granted by the AOS - Airport Operations Service. Operators shall indicate the real time of start and duration of the test.

Engine test runs in idle power may take place on stands, exception on stands 314, 316, 318, 320, 322 and 324 whenever the PBB are connected to the ACFT.

Engine dry motor may take place at any time subject to AOS PPR.

Engine test runs above idle power shall take place in a location designated by AOS - Airport Operations Service (TWY C2, TWY P or TWY E).

RFF services presence on site is mandatory.

6. Training flights

All landings and take-off at LPFR for training, test and instruction flights are only permitted between 07:00 and 22:00 (06:00-21:00). Those flights must be prepaid to the airport except if the Operator has an open account with FARO Airport or a local representative responsible for the payment of landing fees.

Operators shall coordinate in advance training, test and or instruction flights with consecutive take-off and landings at least 72 hours before operation with AOS - Airport Operations Service. For that purpose use SITA FAOKAXH Email: faoairportsup@ana.pt

Practice of Instruments or Visual Approaches to LPFR for training, test and or instruction flights are not allowed between 06:00 - 06:59 and 22:01 - 23:59 (05:00 - 05:59 and 21:01 - 22:59).

7. Apron operational procedures, Follow-Me guidance and Marshaller assistance**7.1** Apron operational procedures

All stands are nose in / push-back operation. Other procedures (nose-out) may be assigned by AOS – Airport Operations Service, due to operational reasons.

Stands are provided with hydrant fuel system, where refuelling is via fuel dispensers vehicles.

APRON NW

Stands 202, 204, 206, 208, 210 and 212.

Apron taxiway located on that area is restricted to ACFT with a wingspan up to 44 meters, thus the following type of aircraft (A332, A333, A338, A339, A342, A343, A345, A346, A350, B762, B763, B764, B742, B743, B744, B772, B773, B787, B788, B789 or similar) are not permitted to enter Taxiway ALPHA and taxi on Apron taxiway.

APRON SW

Stands: 201, 203, 205, 207, 209, 211 and 213.

Apron taxiway located on that area is restricted to ACFT with a wingspan up to 44 meters, thus the following type of aircraft (A332, A333, A338, A339, A342, A343, A345, A346, A350, B762, B763, B764, B772, B773, B787, B788, B789 or similar) are not permitted to enter Taxiway ALPHA and taxi on apron taxiway.

ACFT allocated to stands 201, 203, 205, 207, 209 and 211 shall use TWY "Alpha" to enter the apron, except for aircraft code letter A and B or if a previous coordination between ATC and AOS - Airport Operations Service. Pilots operating in these stands should manoeuvre the aircraft considering the slope (7.8%) of the adjacent taxiway safety strip.

APRON N

Stands 314, 316, 318, 320, 322 and 324.

Those stands are provided with VDGS – Visual Docking Guidance System.

APRON S

Stands: 321, 323 and 325.

APRON NE

Stands: 432, 434, 436, 442, 444, 446, 452, 454, 456, 462, 464 and 466.

APRON SE

Stands: 451, 453, 455, 461, 463, 465, 471, 473 and 475.

APRON M

Stand: 500.

7.2 Follow-Me guidance

Follow-Me guidance will be available on request.

Follow-Me assistance and wing clearance will be provided on TWY P, between TWY A and TWY B, to aircraft code letter E.

Follow-Me assistance will be available on request, except for ACFT with wingspan larger than 65 meters, for which Follow-Me and Marshaller assistance is compulsory in the entire Airport Area.

7.3 Marshaller assistance

Marshaller assistance is mandatory for parking, except stands with VDGS Visual Docking Guidance System.

7.4 GA/BA General Aviation/Business Aviation

General Aviation/Business Aviation aircraft will use preferably stands 201, 203, 205, 207, 209 and 211. Stand 213 shall be used for GA/BA refuelling purposes only.

All GA/BA operators must be assisted by one ground handler as specified in LPFR AD 2.23 item 2 Handling Services.

7.5 Parking restrictions

Faro AD has 30 stands or 37 stand positions (mixed configuration), depending on aircraft ICAO Code, all nose-in stands. 6 Stands with Passenger Boarding Bridges and VDGS Visual Docking Guidance System.

Due to parking restrictions at Faro Airport, all aircraft other than those based at Faro, are not allowed to park more than 72 hours. If coordinated at least 72 hours prior to operation, the Airport Director may grant exceptions. For contact use SITA: FAOKAXH, E-mail: faoairportsup@ana.pt

8. Refuel Operations

All refuelling operations in the presence of passengers, with passengers on board, embarking or disembarking, must be coordinated with AOS - Airport Operations Service. Technical stops and diverted flights shall inform AOS - Airport Operations Service through FARO SAFETY frequency 131.455 MHZ about the number of people on board and if they request or not the presence near the aircraft of the fire brigade.

LPFR AD 2.21 NOISE ABATEMENT PROCEDURES

See AD 1.1.5 [Noise Abatement Procedures](#)

See AD 1.1.6 [Restrictions for nocturnal flights for civil aircraft on Portuguese airports and/or aerodromes](#)

LPFR AD 2.22 FLIGHT PROCEDURES

1. ILS CAT I/II OPERATIONS

1.1 Runway 28, subject to serviceability of the required facilities, is suitable for CAT II operations by operators whose minima have been accepted by ANAC.

1.2 Low Visibility Operations Procedures (LVP) will be in course whenever:

- a. Runway Visual Range (RVR) - TDZ RWY28 is 800M or below; or,
- b. Cloud Base Height (CBH) - RWY28 is 200FT or below; or,
- c. Visibility conditions decrease rapidly;

Irrespective of the serviceability state of the ILS, lighting, stand-by power, etc. Pilots will be informed when these procedures are in use by RTF if ATIS is unserviceable through the message " ATC LOW VISIBILITY PROCEDURES IN FORCE".

1.3 ATC Low Visibility Procedures

- a. Ground Safeguarding Procedures will ensure that ILS protection areas (Critical and Sensitive) are clear of (KNOWN) traffic before issuing the landing clearance (never after 2NM final).
- b. When the aircraft reaches that point and landing clearance cannot be issued, it will be instructed to carry out a missed approach procedure.
- c. Any incident detected that may affect the Low Visibility Procedures or any change of the operational minima will be communicated, immediately, to ATC units involved.
- d. Pilots will be informed by ATC of any unserviceabilities in the promulgated facilities so that they can amend their minima, if necessary, according to their operations manual.
- e. A change in operation, if caused by a failure expected to last more than one hour, will be promulgated by a NOTAM.
- f. Aircraft awaiting weather improvement in the holding area will be stacked from FL070 upward.
- g. Pilots shall report RWY ILS Localizer Sensitive Area vacated when aircraft passes the last alternate green yellow TWY centreline lights.

1.4 Runway Visual Range

Runway Visual Range values will be reported by ATC for TDZ (Touchdown) RWY 28.

For any of the two other positions, MID (Midpoint) and END (Stop-end), ATC will only report their RVR values if they are:

- a. Less than the value reported for TDZ and less than 800M;
- b. less than 350M, or;
- c. requested by the pilot.

1.5 Practice CAT II Approaches

Pilots who wish to practice CAT II approaches are to request practice CAT II approaches, on initial contact with FARO APPROACH (e.g. "REQUEST PRACTICE CAT II APPROACH").

For practice approaches there is no guarantee that the full safeguarding procedures will be applied and pilots should anticipate the possibility of resultant ILS signal disturbance.

2. STANDARD INSTRUMENT DEPARTURES FROM FARO AERODROME

GENERAL REMARKS:

NON RNAV1-GNSS equipped aircraft shall advise ATC when requesting ATC CLR, and expect alternative instructions.

RADAR VECTORING:

Radar Vectoring involving deviation from SID may be used by Faro 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 VFA 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 VFA DVOR/DME, rejoin the current flight plan route and proceed in accordance with item 2 above;
4. If cleared DCT to..., fly at/to the assigned and acknowledged level or to FL060, whichever is higher, until passing 30 NM DME VFA DVOR/DME, maintain the current flight plan route and proceed in accordance with item 2 above.

See also STANDARD INSTRUMENT DEPARTURE (SID) charts.

3. RNAV DEPARTURE ROUTES FROM FARO AERODROME

GENERAL REMARKS:

NIL

RADAR VECTORING:

Radar Vectoring involving deviation from SID may be used by Faro 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 VFA 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 VFA DVOR/DME, rejoin the current flight plan route and proceed in accordance with item 2 above.
4. If cleared DCT to..., fly at/to the assigned and acknowledged level or to FL060, whichever is higher, until passing 30 NM DME VFA DVOR/DME, maintain the current flight plan route and proceed in accordance with item 2 above.

See also RNAV SID charts.

4. RNAV ARRIVAL ROUTES TO FARO AERODROME

GENERAL REMARKS

NON-GNSS equipped aircraft shall proceed to VFA DVOR/DME and expect ATC instructions for final approach.

SPEED ADJUSTMENT:

See ENR section 1.5, sub-section 1.5.4 paragraph 2a)

RADIO COMMUNICATIONS FAILURE:

In the event of RCF, squawk A 7600, fly at/to last assigned Level to VFA DVOR/DME and, over holding pattern, at ETA according CPL or EAT (when received and acknowledged), start descend to initial approach altitude to carry out a standard IFR approach according to IAC.

For aircraft equipped with onboard telephone, dial +351 289 89 41 63.

See also RNAV STAR charts.

5. NON-RNAV ARRIVAL ROUTES TO FARO AERODROME

NON-RNAV aircraft shall proceed to VFA DVOR/DME and expect ATC instructions for final approach.

NON-GNSS equipped aircraft shall proceed to VFA DVOR/DME and expect ATC instructions for final approach.

6. CONTINUOUS DESCENT OPERATIONS (CDO)

General Procedures

All STAR with designation K (KILO) are associated with CDO. Aircraft inbound Faro Airport performing SOTEX5K, ODEMI5K and ALAGU5K STAR will carry out a Continuous Descent Operation and will be required to comply with the following procedures:

- CDO authorized upon ATC approval;

- CDO are authorized from the point marked in the respective STAR charts as "CDO Start" forward;
- A maximum 3.3° and minimum 2° slope must be respected;
- The 2° slope ends at point 2NM from FAP/FAF to allow for deceleration;
- Distance to go (DTG) referred to the THR is provided to pilots in the STAR chart in order to achieve a CDO.
- When planning CDO STAR vertical profile, an explicit ATC descent is always required.

Phraseology

The appropriate phraseology is as follows:

The crew makes a request for the CDO, before SOTEX, ODEMI and ALAGU:

Pilot request to ATC

«[Concerned ATC Sector], **TAP1245, requesting C-D-O Runway [28 or 10]**»

[Concerned ATC Sector] **replies as follows:**

a) «TAP 1245, unable to approve CDO (reason), cleared/fly to...(Standard STAR)»

b) «TAP 1245, cleared for =====K»

Radio Communications Failure

In the event of RCF, squawk A 7600, fly at/to last assigned Level to VFA VOR/DME and, over holding pattern, at ETA according CPL or EAT (when received and acknowledged), start descend to initial approach altitude to carry out a standard IFR approach according to IAC.

For aircraft equipped with onboard telephone, dial +351 289 89 41 63.

See also RNAV CDO STAR charts.

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
FARO/VFA FARO DVOR/DME 370049N0075830W	282°	LEFT	230	3000 FT ALT FL 140	1 MIN
FARO/VFA FARO DVOR/DME 370049N0075830W	102°	RIGHT	230	3000 FT ALT FL 140	1 MIN
FARO/VFA FARO DVOR/DME 370049N0075830W	282°	LEFT	280	FL 150 FL 999	1.5 MIN
FARO/VFA FARO DVOR/DME 370049N0075830W	102°	RIGHT	280	FL 150 FL 999	1.5 MIN
GEBTI GEBTI 365906N0074109W RDL098-DME14 VFA DVOR/DME	278°	LEFT	230	3000 FT ALT FL 140	5 NM
GENRO GENRO 371135N0073653W	167°	RIGHT	230	4000 FT ALT FL 140	1 MIN
GIMAL GIMAL 364552N0080021W RDL187-DME15 VFA DVOR/DME	007°	RIGHT	230	3000 FT ALT FL 140	5 NM
GIMAL GIMAL 364552N0080021W RDL187-DME15 VFA DVOR/DME	007°	RIGHT	265	FL 150 FL 220	10 NM

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
NOKSO NOKSO 370502N0085647W	098°	RIGHT	230	FL 100 FL 140	1 MIN
VENOL VENOL 370424N0081524W RDL286-DME14 VFA DVOR/DME	106°	RIGHT	230	3000 FT ALT FL 140	5 NM
USALU USALU 371320N0081801W RDL310-DME20 VFA DVOR/DME	130°	RIGHT	230	5000 FT ALT FL 140	5 NM
USALU USALU 371320N0081801W RDL310-DME20 VFA DVOR/DME	130°	RIGHT	240	FL 150 FL 200	8.5 NM
USALU USALU 371320N0081801W RDL310-DME20 VFA DVOR/DME	130°	RIGHT	265	FL 210 FL 220	10 NM

LPFR AD 2.23 ADDITIONAL INFORMATION

1. Bird hazard warning

The birds activity is characterized by the presence of sea and colonial birds permanently in the vicinity of the airfield area, mainly during the Spring/Summer periods. Birds activity increases two hours before sunrise and sunset. Typical flight profiles predominantly East-West and North-South at highs between 10 meters (33FT) and 70 meters (230FT). Specific specimen groups reach 300 meters (1000FT) high during migration periods.

Gas cannon devices installed around runway 28/10 and automatically activated during Airport Operational Hours. Pilots are advised that birds may not be promptly detected.

During daylight Falconry is also used, with predatory birds, such as Falcons and Hawks to drive birds away. For bird dispersal purposes, it's possible to broadcast alarm and distress calls, use automatic LP gas exploders and laser bird dispersal.

2. Handling services

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

Taxi/private crews are advised to contact agent before operation. Crew, Passengers and baggage transportation is only provided by full handling agents. Cargo handling is only provided by full handling agents.

Suppliers of Ground Handling Services:

GROUNDFORCE
Phone: + 351 289800750
Phone: + 351 969606466 (mobile)
SITA: FAOEXHX
Email: hoc.fao@groundforce.pt

VHF Frequency: 131.480 MHZ

PORTWAY HANDLING DE PORTUGAL S.A.
Phone: + 351 289889401
Fax: + 351 289889403
SITA: FAOKOXH
SITA: FAOKRXH
SITA: FAOKLXH
Email: faro.ops@portway.pt

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 2.24.10-5
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) – (RNAV CDO RWY 28 ODEMI5K)	LPFR AD 2.24.10-7
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) – (RNAV CDO RWY 28 ALAGU5K)	LPFR AD 2.24.10-9
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

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
LUVUP LUVUP 374313N0101007W	047°	LEFT	280	FL 250 FL 280	1.5 MIN
LUXUT LUXUT 375959N0090137W	344°	LEFT	230	FL 110 FL 140	1 MIN
LUXUT LUXUT 375959N0090137W	344°	LEFT	265	FL 150 FL 240	1.5 MIN
MAZUK MAZUK 383538N0093315W	092°	LEFT	230	FL 060 FL 140	1 MIN
NATID NATID 385254N0093252W	095°	LEFT	230	FL 060 FL 140	1 MIN
NATID NATID 385254N0093252W	095°	LEFT	265	FL 150 FL 240	1.5 MIN
ORTUG ORTUG 382414N0085946W	317°	RIGHT	230	FL 060 FL 140	1 MIN
PESEX PESEX 383532N0091413W	025°	RIGHT	200	3000 FT ALT FL 090	1 MIN
RINOR RINOR 391237N0084728W	224°	LEFT	230	FL 150 FL 200	1.5 MIN
RINOR RINOR 391237N0084728W	224°	LEFT	230	FL 070 FL 140	1 MIN
RULOX RULOX 385400N0100000W	089°	RIGHT	230	FL 110 FL 140	1 MIN
RULOX RULOX 385400N0100000W	089°	RIGHT	265	FL 150 FL 240	1.5 MIN
UNPOT UNPOT 381046N0100000W	049°	LEFT	230	FL 110 FL 140	1 MIN
UNPOT UNPOT 381046N0100000W	049°	LEFT	265	FL 150 FL 240	1.5 MIN
UPKAT UPKAT 385759N0090212W	205°	LEFT	200	3000 FT ALT FL 090	1 MIN
UPULO UPULO 390238N0073907W	245°	RIGHT	280	FL 250 FL 280	1.5 MIN
VATZI VATZI 373552N0085147W	344°	LEFT	280	FL 250 FL 280	1.5 MIN
XAMAX XAMAX 400152N0083210W	178°	LEFT	230	FL 110 FL 140	1 MIN
XAMAX XAMAX 400152N0083210W	178°	LEFT	280	FL 150 FL 280	1.5 MIN

LPPT AD 2.23 ADDITIONAL INFORMATION

1. Bird hazard warning

Flocks of birds with significant activity occur daily at the airport and on the vicinity.

Depending on the specific species group and seasonal variation, bird activity in the aerodrome manoeuvring area is characterized as follows:

- High flight, between 10M (30FT) and a maximum of 70M (230FT).
- Main concentration areas near thresholds, runways 02/20.

Some species groups, like sea gulls (larus and larus argentus), cross the aerodrome field area from EAST to WEST and vice-versa during morning and evening periods.

Daily bird harassment and dispersal techniques implemented (HJ), including the use of birds of prey: Accipitriformes and Falconiformes.

2. Wind / Turbulence

RWY 02

Pilots are advised that turbulence can be expected on final and touchdown zone of runway 02 when wind direction is between 310 degrees and 360 degrees.

- With wind speeds between 14KT and 20KT, gusting up to 36KT moderate turbulence can be expected.
- With wind speeds above 21KT and gusts above 36KT, severe turbulence can be expected.

LPPT AD 2.24 CHARTS RELATED TO THE AERODROME

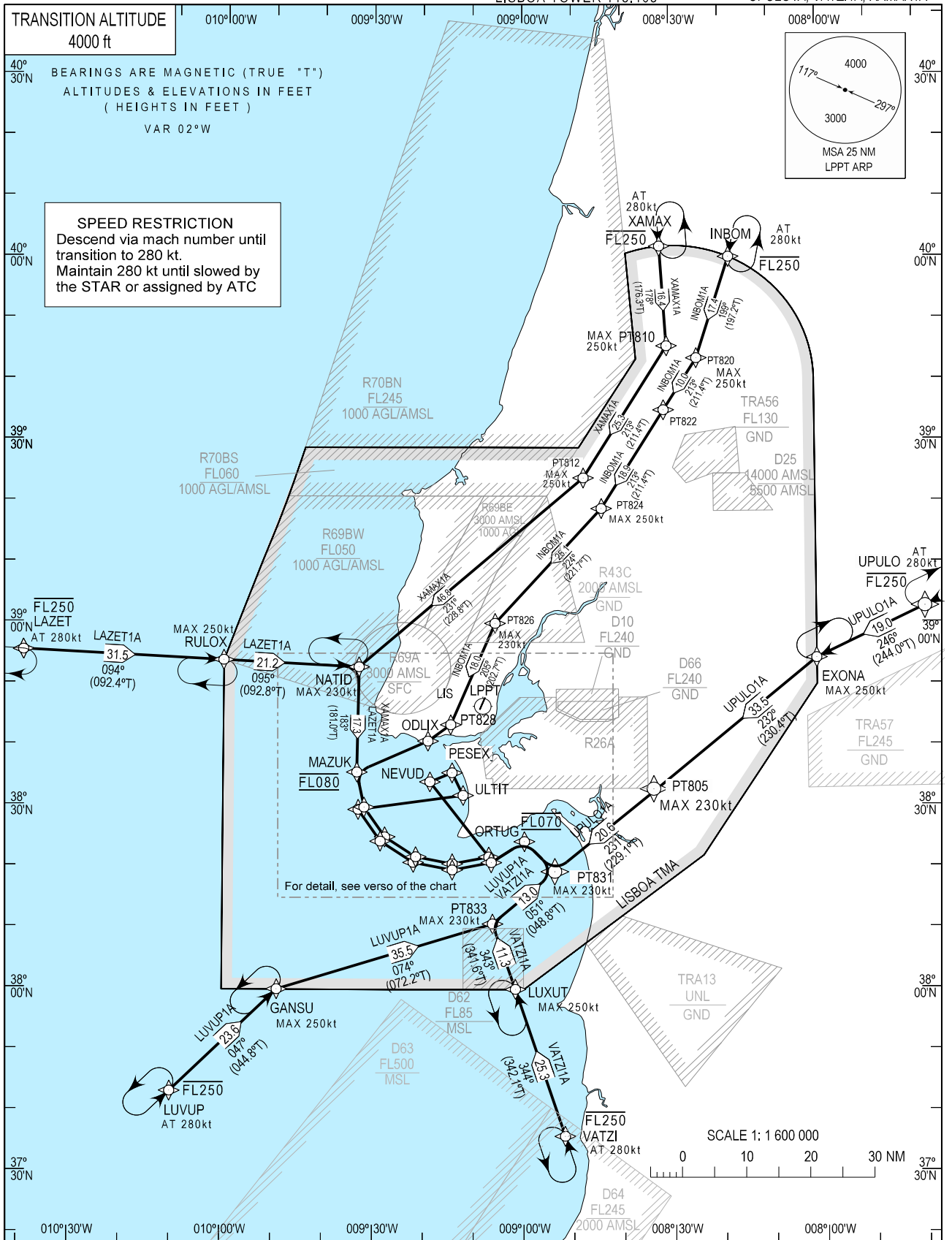
Name	Page
AERODROME CHART-ICAO	LPPT AD 2.24.01-1
AERODROME CHART-ICAO MARKING AND LIGHTING	LPPT AD 2.24.01 -3
AIRCRAFT PARKING/DOCKING CHART-ICAO - APRONS 10, 11, 12	LPPT AD 2.24.02-1
AIRCRAFT PARKING/DOCKING CHART-ICAO - APRONS 14, 70, 80 AND MIL	LPPT AD 2.24.02 - 3
AIRCRAFT PARKING/DOCKING CHART-ICAO APRONS 30, 40, 41, 42,50, 60	LPPT AD 2.24.02 - 5
AIRCRAFT PARKING/DOCKING CHART-ICAO APRONS 20, 22	LPPT AD 2.24.02 - 7
AERODROME GROUND MOVEMENT CHART ARR/DEP RWY 02	LPPT AD 2.24.03 -1
AERODROME GROUND MOVEMENT CHART ARR/DEP RWY 20	LPPT AD 2.24.03 - 3
AERODROME OBSTACLE CHART-ICAO – RWY02	LPPT AD 2.24.04 - 1
AERODROME OBSTACLE CHART-ICAO – RWY20	LPPT AD 2.24.04 - 3
PRECISION APPROACH TERRAIN CHART-ICAO – RWY20	LPPT AD 2.24.06 - 1
PRECISION APPROACH TERRAIN CHART-ICAO – RWY02	LPPT AD 2.24.06 - 3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) – ICAO (RWY02 ESP6N FTM5N)	LPPT AD 2.24.08 - 1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) – ICAO (RWY20 ESP7S FTM6S)	LPPT AD 2.24.08 - 3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) – ICAO (RNAV RWY02 BEVOP1L BEVOP1X DUZOP1L DUZOP1X ELNUB1N IXIDA1N OLBOD1L OLBOD1X ORVED1N ULVOT1L ULVOT1X ZIFOG1N)	LPPT AD 2.24.08 - 5
STANDARD DEPARTURE CHART - INSTRUMENT (SID) – ICAO (RNAV RWY20 BEVOP1S DUZOP1S ELNUB1S IXIDA1S OLBOD1S ORVED1S ULVOT1S ZIFOG1S)	LPPT AD 2.24.08 - 13
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) – ICAO (RNAV RWY02 INBOM1A LAZET1A LUVUP1A UPULO1A VATZ11A XAMAX1A)	LPPT AD 2.24.10 - 1

Name	Page
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) – ICAO (RNAV RWY20 ESEBI2B INBOM2B LAZET2B LUVUP2B UPULU2B VATZI2B XAMAX2B)	LPPT AD 2.24.10 - 7
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO	LPPT AD 2.24.11-1
INSTRUMENT APPROACH CHART - ICAO (ILS RWY02 CAT II & III)	LPPT AD 2.24.12 -1
INSTRUMENT APPROACH CHART - ICAO (LOC RWY02)	LPPT AD 2.24.12 -3
INSTRUMENT APPROACH CHART - ICAO (ILS RWY20 CAT II & III)	LPPT AD 2.24.12 -5
INSTRUMENT APPROACH CHART - ICAO (LOC RWY20)	LPPT AD 2.24.12 -7
INSTRUMENT APPROACH CHART - ICAO (RNP RWY02)	LPPT AD 2.24.12 -9
INSTRUMENT APPROACH CHART - ICAO (RNP RWY20)	LPPT AD 2.24.12 -11
VISUAL APPROACH CHART - ICAO	LPPT AD 2.24.13-1
VISUAL APPROACH PROCEDURE - RWY02	LPPT AD 2.24.13-3

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STANDARD ARRIVAL CHART -
INSTRUMENT (STAR) - ICAO

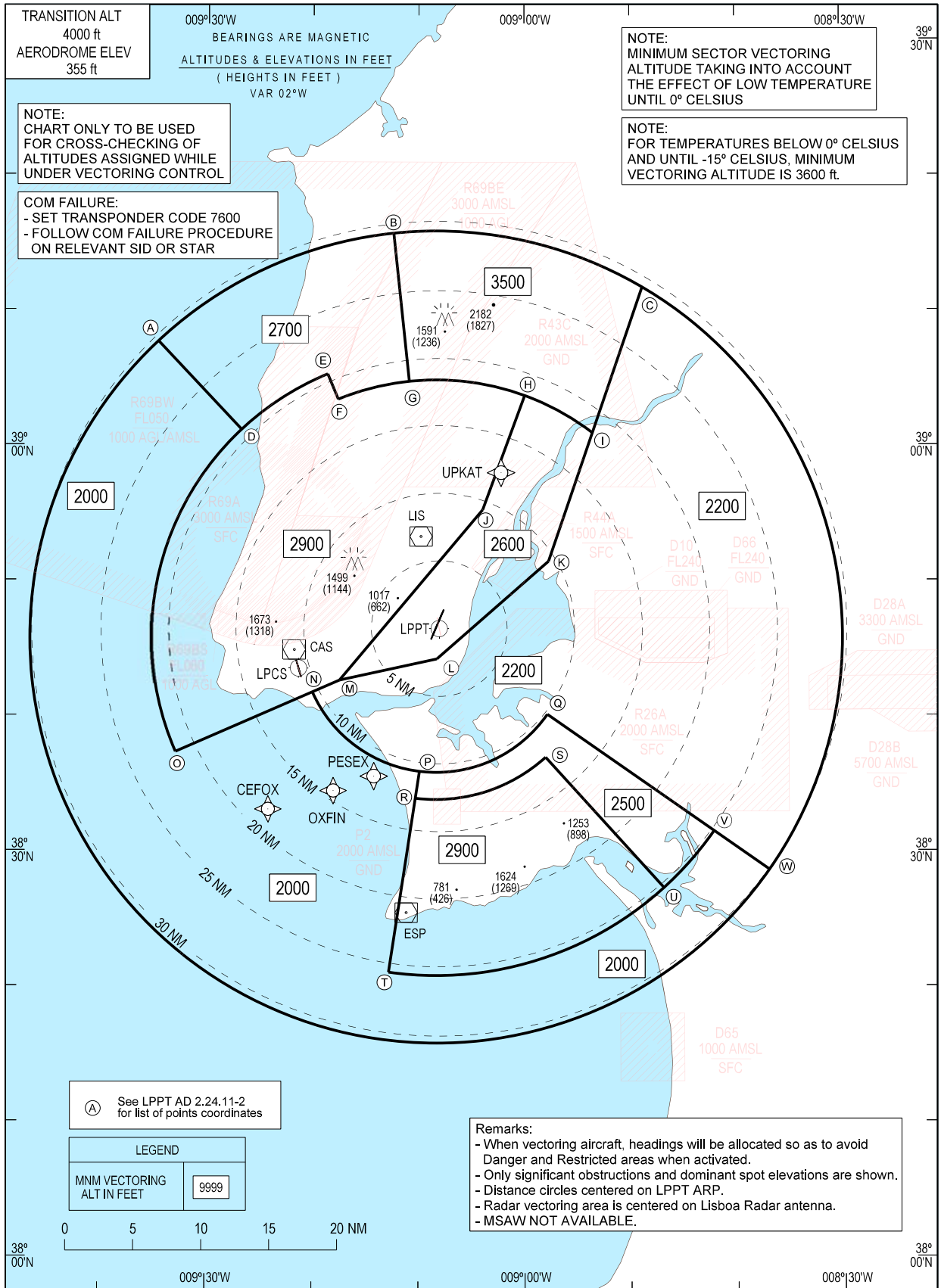
LISBOA ARR INFORMATION 124.155 LISBOA, Humberto Delgado (LPPT)
LISBOA CONTROL 123.980
LISBOA APPROACH 119.105 RNAV RWY 02
LISBOA ARRIVAL 125.130 INBOM1A, LAZET1A, LUVUP1A
LISBOA TOWER 118.105 UPULO1A, VATZ1A, XAMAX1A



ATC SURVEILLANCE MINIMUM
ALTITUDE CHART - ICAO

LISBOA ARRIVAL 125.130
LISBOA ARR INFORMATION 124.155
LISBOA APPROACH 119.105
LISBOA CONTROL 123.980

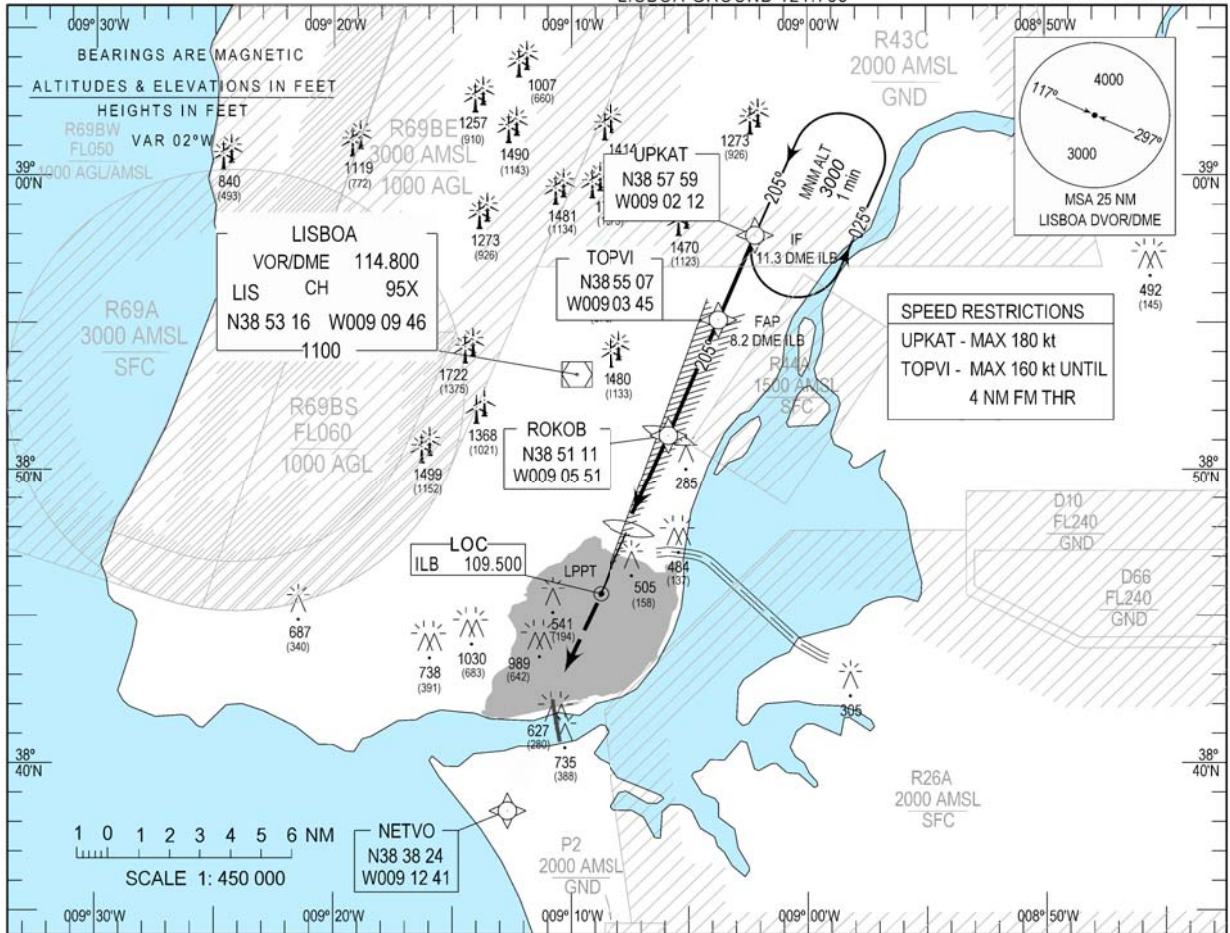
LISBOA, Humberto Delgado
(LPPT)



Significant points changed

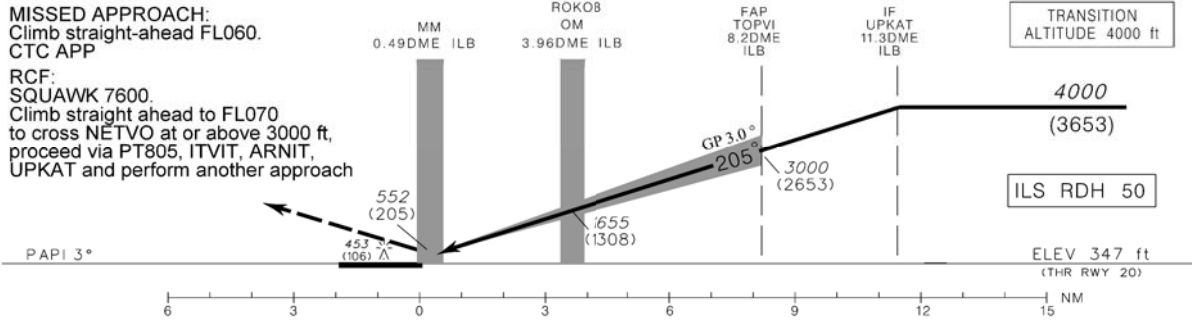
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A	39°07'42.83"N	009°34'41.54"W
B	39°15'42.45"N	009°12'22.95"W
C	39°11'43.08"N	008°48'48.04"W
D	39°01'09.63"N	009°26'45.37"W
E	39°05'16.14"N	009°18'36.75"W
F	39°03'25.13"N	009°17'37.77"W
G	39°04'45.27"N	009°10'53.47"W
H	39°03'41.88"N	008°59'57.25"W
I	39°00'56.89"N	008°53'32.83"W
J	38°55'14.25"N	009°03'55.92"W
K	38°51'25.83"N	008°57'43.22"W
L	38°44'13.12"N	009°08'16.58"W
M	38°42'38.52"N	009°17'27.45"W
N	38°41'45.90"N	009°20'00.88"W
O	38°37'20.08"N	009°32'52.62"W
P	38°35'53.78"N	009°09'54.46"W
Q	38°40'06.78"N	008°57'50.59"W
R	38°33'54.96"N	009°10'17.70"W
S	38°36'56.39"N	008°58'01.40"W
T	38°21'02.75"N	009°12'48.19"W
U	38°27'17.24"N	008°46'54.10"W
V	38°31'30.12"N	008°42'09.58"W
W	38°28'37.43"N	008°36'56.74"W

INSTRUMENT APPROACH CHART - ICAO AD ELEV 355 ft LISBOA ARR INFORMATION 124.155 LISBOA
 HEIGHTS RELATED LISBOA APPROACH 119.105 LISBOA
 THR RWY 20 -ELEV 347 ft LISBOA ARRIVAL 125.130 LISBOA
 LISBOA TOWER 118.105 Humberto Delgado (LPPT)
 LISBOA GROUND 121.755 ILS RWY 20 CAT II & III



MISSED APPROACH:
 Climb straight-ahead FL060.
 CTC APP

RCF:
 SQUAWK 7600.
 Climb straight ahead to FL070
 to cross NETVO at or above 3000 ft,
 proceed via PT805, ITVIT, ARNIT,
 UPKAT and perform another approach



		OCA (H)			
		CAT A	CAT B	CAT C	CAT D
ILS	CAT I	547 (200)			
	CAT II	447 (100)			
CIRCLING		1500		1580	

CAT III a and CAT III b (MNM RVR 75 m) approved
 DME READING REFERS TO THE THR RWY 20

Missing label ROKOB

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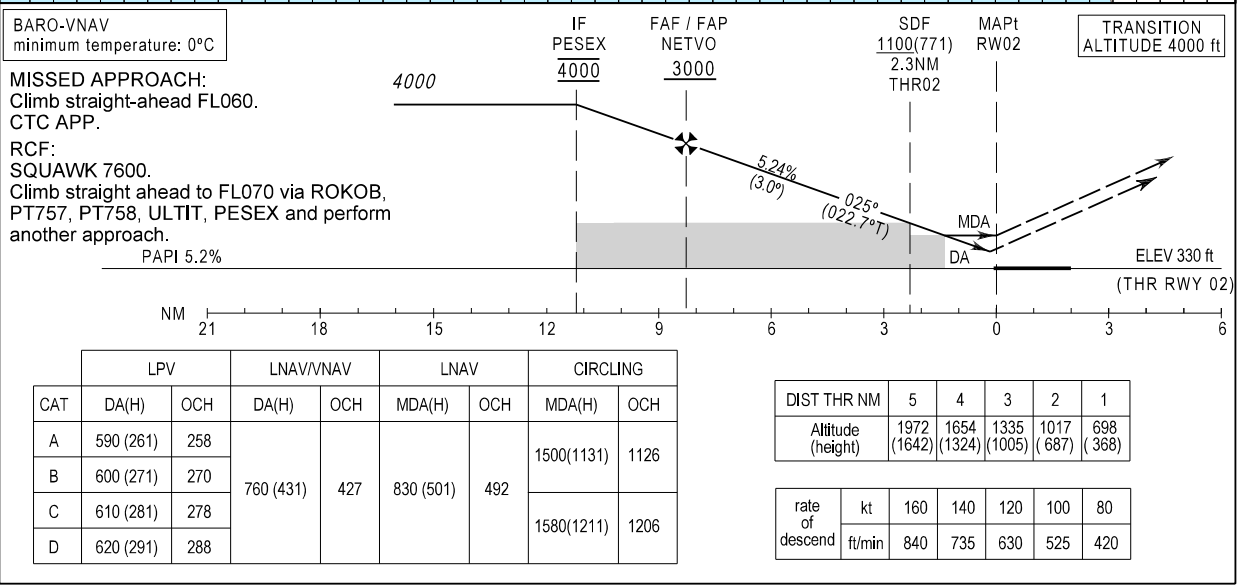
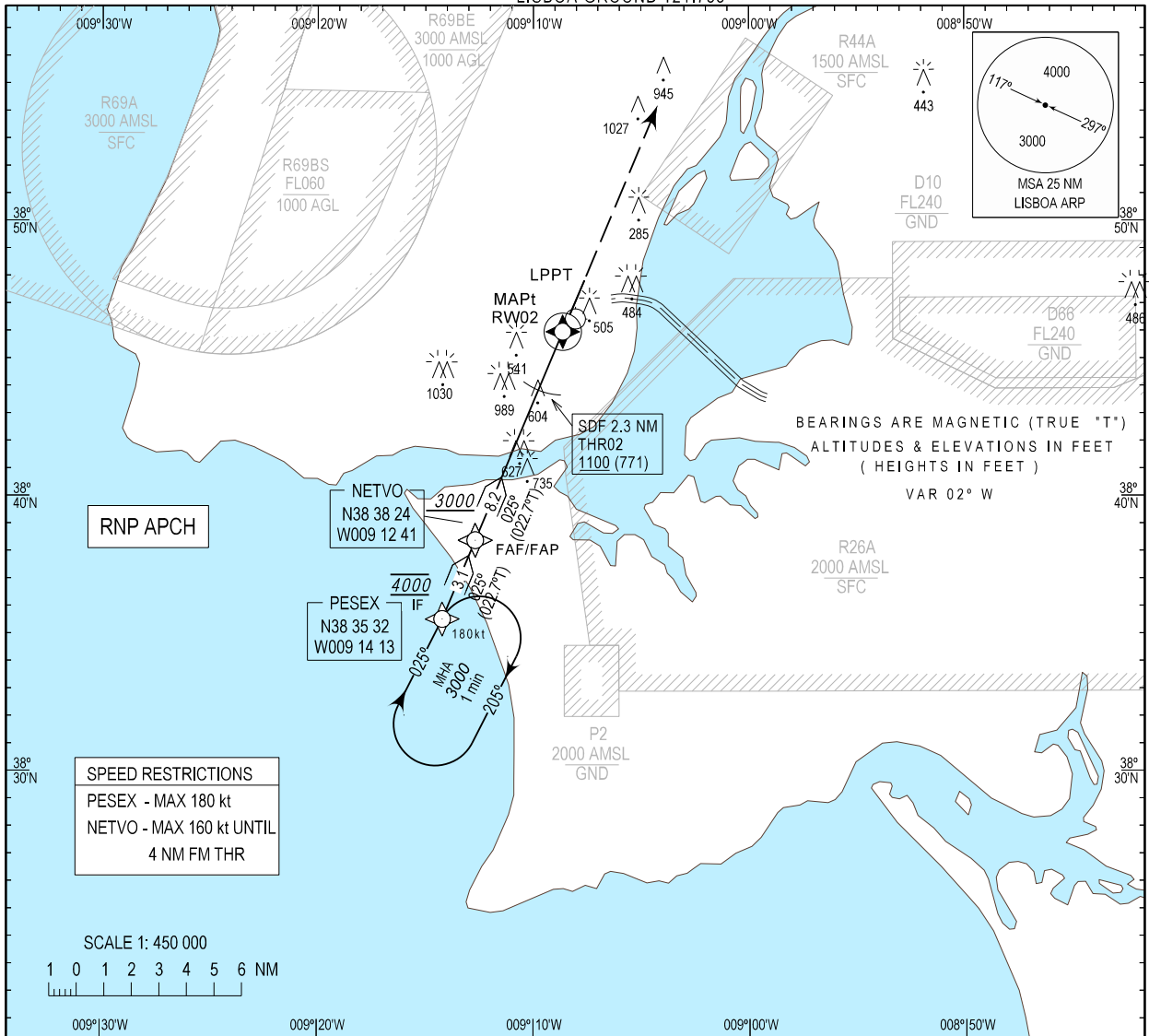
INSTRUMENT
APPROACH
CHART - ICAO

AD ELEV 355 ft
HEIGHTS RELATED
THR RWY 02 - ELEV 330 ft

LISBOA ARR INFORMATION 124.155
LISBOA APPROACH 119.105
LISBOA ARRIVAL 125.130
LISBOA TOWER 118.105
LISBOA GROUND 121.755

EGNOS
CH 48477
E02A
RDH: 50

LISBOA
Humberto Delgado (LPPT)
RNP RWY 02



New procedure.

Instrument Approach Procedure Coding Table
LPPT RNP RWY02

Serial # / Procedure designator	Navigational performance	Path descriptor	Waypoint identifier	Type	Waypoint coordinates	Fly-Over	(True track [°]) /	Distance [NM]	Turn direction	Upper limit [ft]	Speed [kt]	VPA [°]	TCH (ft)
							Magnetic track [°]			/ Lower limit [ft]			
1 / RNP RWY02	RNP APCH	IF	PESEX	IF	38°35'32.42"N 009°14'12.69"W	-			-	@4000	180	-	-
2 / RNP RWY02	RNP APCH	TF	NETVO	FAF/FAP	38°38'24.00"N 009°12'41.00"W	-	(022.7°) 025°	3.10		+3000	160		
3 / RNP RWY02	RNP APCH	TF	RWY02 THR	MAPt (LNAV ONLY)	38°45'59.15"N / 009°08'38.04"W	Y	(022.7°) 025°	8.21	-	-	-	3.00	50
4 / RNP RWY02	RNP APCH	VM	-	-	-	-	(022.7°) 025°	-	-	@FL060	-	-	-
Serial # / Procedure designator	Navigational performance	Path descriptor	Waypoint identifier	Type	Waypoint coordinates	Fly-Over	(True track [°]) / Magnetic track [°]	Distance [NM]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kts]	VPA [°]	TCH (ft)
1 / RNP RWY02	RNP APCH	HM	PESEX	HLDG	38°35'32.42"N 009°14'12.69"W	Y	(022.7°) 025°	1 min	R	FL090 / 3000	185		

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LPPT
Runway	02
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E02A
LTP/FTP Latitude	384559.1400N
LTP/FTP Longitude	0090838.0500W
LTP/FTP Ellipsoidal Height (metres)	153.7
FPAP Latitude	384747.3200N
Delta FPAP Latitude (seconds)	108.1800
FPAP Longitude	0090740.1700W
Delta FPAP Longitude (seconds)	57.8800
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

Output data

Data Block	10 14 10 10 0C 02 00 00 01 32 30 05 C8 01 A3 10 BC 6B 13 FC 01 1A 28 4D 03 30 C4 01 F4 01 2C 01 64 00 C8 FA CB 78 65 D5
Calculated CRC Value	CB7865D5

Required Additional Data

ICAO Code	LP
LTP/FTP Orthometric Height (metres)	100.3

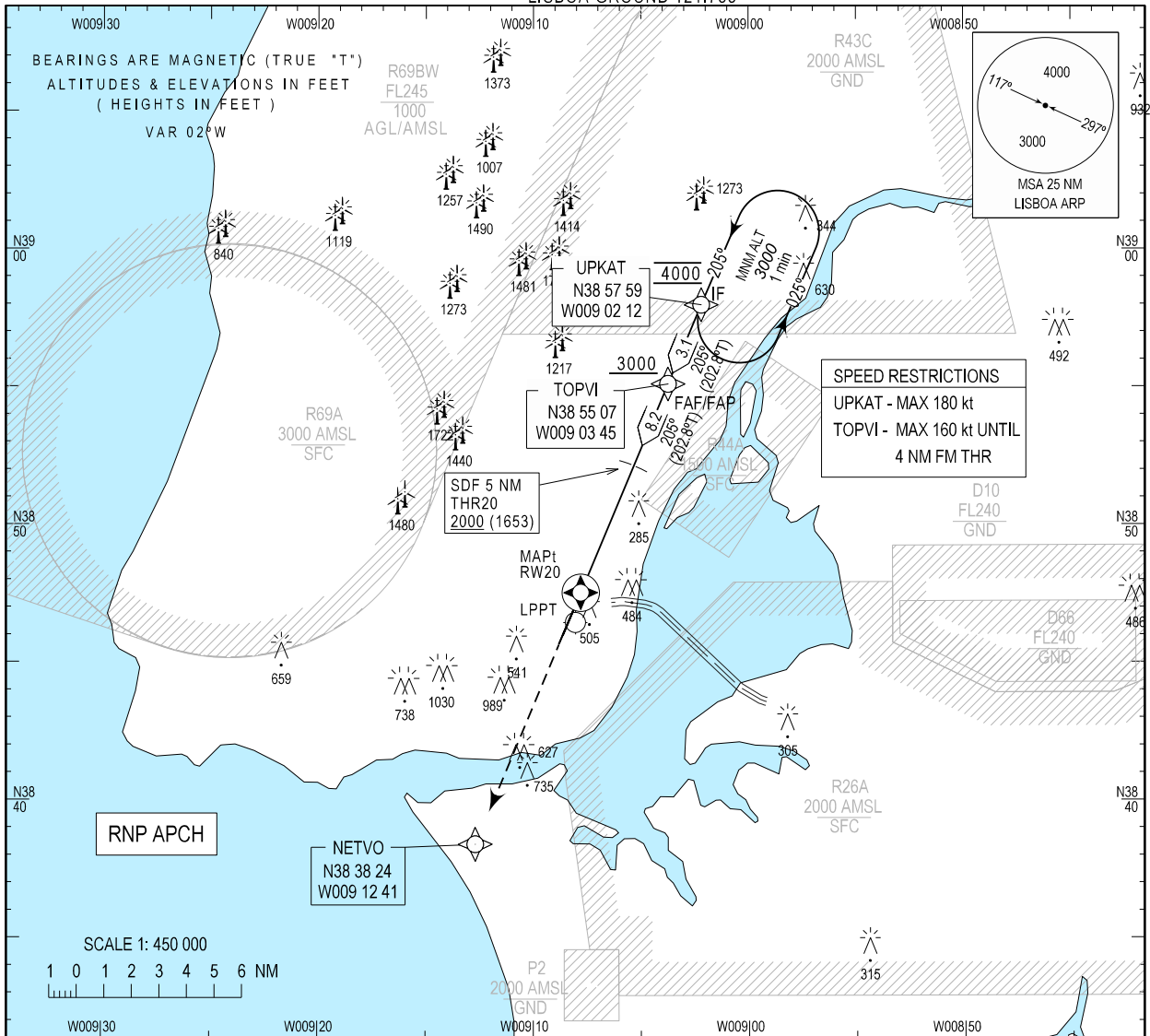
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 355 ft
HEIGHTS RELATED
THR RWY 20 - ELEV 347 ft

LISBOA ARR INFORMATION 124.155
LISBOA APPROACH 119.105
LISBOA ARRIVAL 125.130
LISBOA TOWER 118.105
LISBOA GROUND 121.755

EGNOS
CH 97981
E20A
RDH: 50

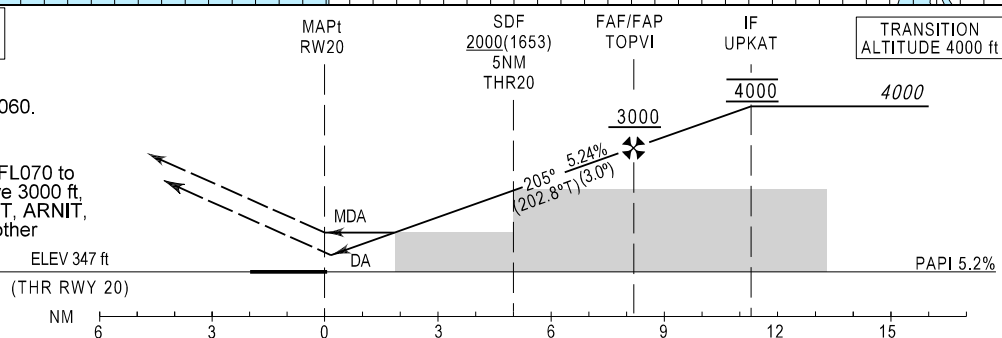
LISBOA Humberto Delgado (LPPT)
RNP RWY 20



BARO-VNAV minimum temperature: 0°C

MISSED APPROACH: Climb straight-ahead FL060. CTC APP.

RCF: Climb straight-ahead to FL070 to cross NETVO at or above 3000 ft, proceed via PT805, ITVIT, ARNIT, UPKAT and perform another approach.



CAT	LPV		LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	OCH	DA(H)	OCH	MDA(H)	OCH	MDA(H)	OCH
A		231					1500(1130)	1126
B	600 (253)	244	800 (453)	451	840 (493)	485		
C		252					1580(1210)	1206
D	610 (263)	262						

DIST THR NM	5	4	3	2	1
Altitude (height)	1988 (1641)	1670 (1323)	1351 (1004)	1033 (686)	714 (367)

rate of descend	kt	160	140	120	100	80
	ft/min	840	735	630	525	420

New procedure.

Instrument Approach Procedure Coding Table
LPPT RNP RWY20

Serial # / Procedure designator	Navigational performance	Path descriptor	Waypoint identifier	Type	Waypoint coordinates	Fly-Over	(True track [°]) /	Distance [NM]	Turn direction	Upper limit [ft]	Speed [kt]	VPA [°]	TCH (ft)
							Magnetic track [°]			/ Lower limit [ft]			
1 / RNP RWY20	RNP APCH	IF	UPKAT	IF	38°57'59.04"N 009°02'12.05"W	-			-	@4000	180	-	-
2 / RNP RWY20	RNP APCH	TF	TOPVI	FAF/FAP	38°55'06.75"N 009°03'44.64"W	-	(202.8°) 205°	3.11		+3000	160		
3 / RNP RWY20	RNP APCH	TF	RWY20/ THR	MAPt	38°47'32.36"N 009°07'48.17"W	Y	(202.8°) 205°	8.20	-	-	-	3.00	50
4 / RNP RWY20	RNP APCH	VM	-	-	-	-	(202.8°) 205°	-	-	@FL060	-	-	-
Serial # / Procedure designator	Navigational performance	Path descriptor	Waypoint identifier	Type	Waypoint coordinates	Fly-Over	(True track [°]) / Magnetic track [°]	Distance [NM]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kt]	VPA [°]	TCH (ft)
1 / RNP RWY20	RNP APCH	HM	UPKAT	HLDG	38°57'59.04"N 009°02'12.05"W	Y	(202.8°) 205°	1 min	L	FL090 / 3000	185		

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LPPT
Runway	20
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E20A
LTP/FTP Latitude	384732.3900N
LTP/FTP Longitude	0090748.1700W
LTP/FTP Ellipsoidal Height (metres)	159.1
FPAP Latitude	384556.4400N
Delta FPAP Latitude (seconds)	-95.9500
FPAP Longitude	0090839.4900W
Delta FPAP Longitude (seconds)	-51.3200
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

Output data

Data Block	10 14 10 10 0C 14 00 00 01 30 32 05 4C DA A5 10 6C F1 14 FC 37 1A 64 12 FD 10 6F FE F4 01 2C 01 64 00 C8 FA B5 D6 1D B3
Calculated CRC Value	B5D61DB3

Required Additional Data

ICAO Code	LP
LTP/FTP Orthometric Height (metres)	105.7

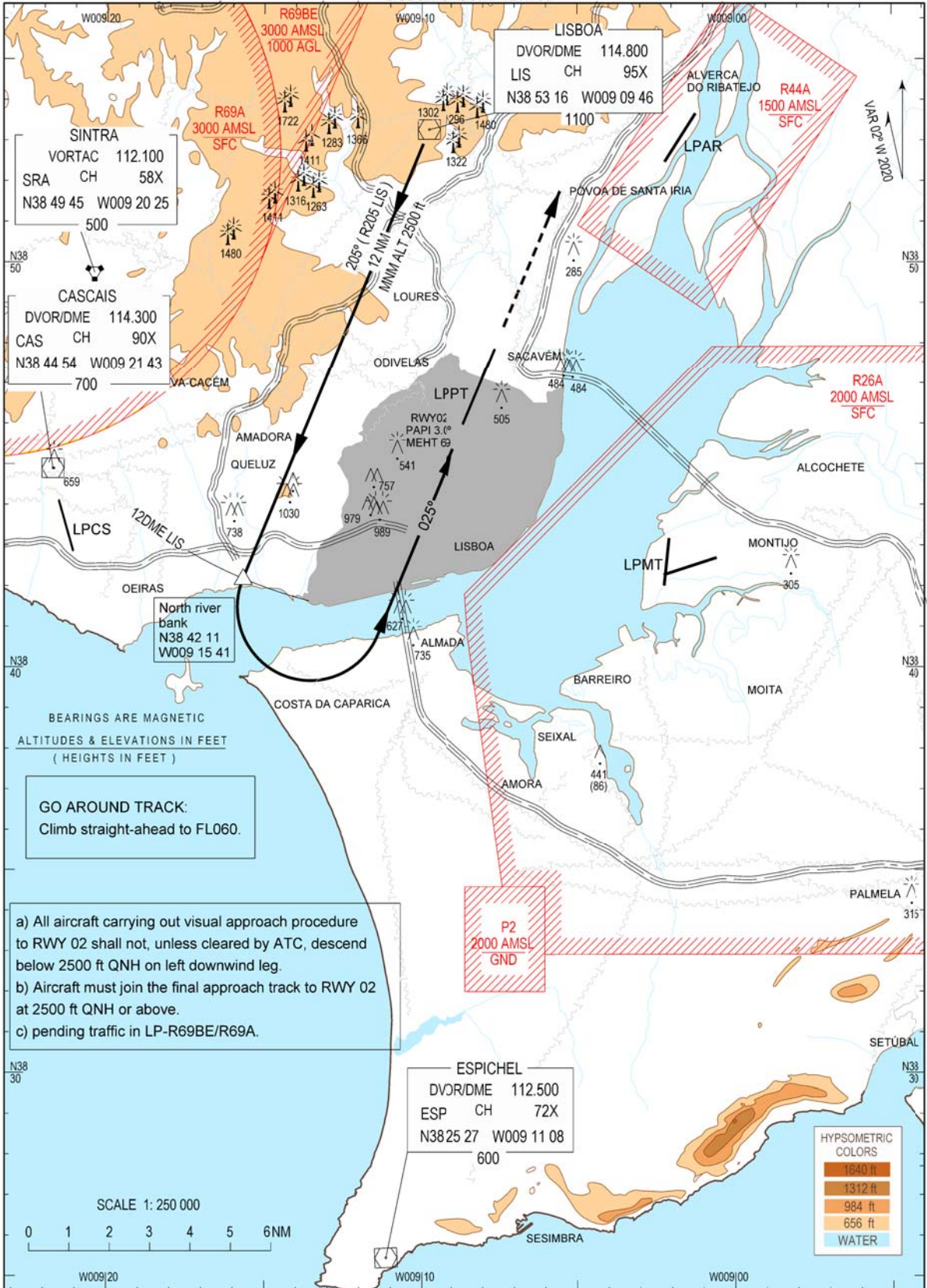
**VISUAL
APPROACH
PROCEDURE**

AD ELEV 355 ft
HEIGHTS RELATED
TO AD ELEV

LISBOA ARR INFORMATION 124.155
LISBOA APPROACH 119.105
LISBOA ARRIVAL 125.130
LISBOA TOWER 118.105
LISBOA GROUND 121.755

LISBOA, Humberto Delgado (LPPT)

RWY 02



Go around ALT changed / box correction

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- g. weather conditions: wind - the maximums as indicated in paragraph 2.3. Severe turbulence, Windshear and up and down drafts, must be included in the different approaches,
- h. one landing at night must be executed for each runway.

Line training

No line training is required if the flight simulator used is level D.

If level C flight simulator is used, line training must be performed with one landing and take-off in Madeira Airport, with an instructor occupying the right-hand seat

Aircraft type change

A Captain qualified in Madeira Airport in one type of aircraft, changing to another type, must do the flight simulator training program mentioned in paragraph "Minimum training requirements" or, instead, will land and take-off in both runways without passengers on board and no line training will be required on both cases.

Training program

The training program referred in paragraph "Minimum training requirements" above will have to be approved by ANAC (Autoridade Nacional da Aviação Civil).

Deviations or unconformities

Any deviations or unconformities stated from requirements stated in the previous paragraphs will be dealt in a case by case basis.

2.2 Responsibility

Compliance with operating limitations is mandatory. Any deviation, landing or take off without clearance must be reported to ANAC by Tower, with the exception of the situations described in bullet "d" of Wind out of limits procedures.

2.3 Operating procedures and limitations

Wind / Turbulence

Wind Information

- a. Control Tower will provide two minutes mean wind values at Rosário and touchdown zone simultaneously with landing clearance or missed approach / go around instructions when landing clearance cannot be issued due to winds exceeding airport published landing limits.
- b. Further wind information after a landing clearance has been issued will be provided at Pilot's request or upon occurrence of variations from the last 2 minutes mean wind direction of 60° or more, or mean wind speed of 3 knots or more.
- c. Instantaneous wind read outs will be provided at pilot's request.

Wind Limitations

a. When landing

1. Maximum of two minutes mean Wind Speed Values indicated by the Touchdown anemometer:

- In the sector 300° to 010° MAG (clockwise) - 15KT, with the maximum Wind Gust of 25KT
- In the sector 020° to 040° MAG (clockwise) - 20KT, with the maximum Wind Gust of 30KT
- In the sector 120° to 190° MAG (clockwise), and if Runway in use is 05 - 20KT with a maximum Wind Gust of 30KT, and if Runway in use is 23 - 15KT, subject also to maximum Wind Gust of 25KT as indicated by MID Anemometer.

2. Maximum of two minutes mean Wind Speed Values, including Gust indicated by the MID or ROSÁRIO Anemometers

- In the Sector 200° to 230° MAG (clockwise) - 25KT.

b. When Taking-off

- 1. Maximum of two minutes mean Wind Speed Values indicated by the MID anemometer:
- In the sector 300° to 010° MAG (clockwise) - 20KT with no Gust limitations

- In the sector 020° to 040° MAG (clockwise) - 25KT with no Gust limitations
- In the sector 120° to 190° MAG (clockwise) and if Runway in use is 05 - 25KT with no Gust limitations, and if Runway in use is 23 - 20KT, also with no Gust limitations

NOTE: The limitations above do not supersede any Operators or Aircraft Operations Manual (AOM) limitations if these are more restrictive

Turbulence

- Attention should be paid to the WIND DIRECTION INDICATORS located on the south side of the runway, near each touchdown area. They will reflect unexpected wind changes. Occasionally they will indicate wind from opposite directions;
- When landing on RWY 05 wind differences greater than 5 KT, between Rosário and MID anemometers, may indicate turbulence on final;
- When landing on RWY 23 with winds from South and Westerly Sectors, one may experience severe turbulence at low altitude over the RWY Threshold;
- Headwind or nearly so, up to 15 KT will cause "WEAK" turbulence on final;
- Wind of 15 KT from sector 020° to 050° MAG (clockwise) may cause "MODERATE" turbulence;
- Wind of 15 KT or even less from sector 300° to 020° MAG (clockwise) may cause "SEVERE" turbulence;
- Down drafts or up drafts are to be expected near the threshold of runways 05 and 23.

NOTE: Pilots are strongly requested to report to the Control Tower as soon as possible any turbulence and/or windshear that may affect operational conditions.

Authorization Required Details

To obtain from ANAC (Portuguese competent Authority) an "Authorization Required" to fly RNP AR APCH procedure in LPMA, for which a procedure-specific approval is required, Operator has to provide its flight crew members an additional ground training and FSTD training, as appropriate, to cope with the mitigations procedures that were described in its FOSA. The Operator should ensure that the additional training programmes, inserted in Operator's Manual (normally Part-D), for such procedures, include as at least all of the following:

- what Regulation (EU) n° 965/2012 in AMC 1 SPA.PBN.100 (b) alínea c)(2) from (vi) till (xii), describes as necessary;
- the crew training recommendations and mitigations stated in the procedure flight operational safety assessment (FOSA); and
- specific training and operational provision published in this AIP, which is for Madeira, at least, special emphasis on a Missed Approach for RWY 05 in which "TOGA to LNAV" (or similar function) fails, in a "RF" leg;
- another approach with Missed Approach in One Engine Inoperative and a "loss of GNSS navigation".
- At least, taking in account what above is stated, 2 approaches for RWY 05 and 2 Approaches for RWY 23 in FFS should be trained. One of these, for RWY 05, should be for a full stop landing, with left limiting crosswind.
- Training and Checking may be combined and conducted by the same person, TRE (Type Rating Examiner), CRE (Class Rating Examiner) or SFE (Synthetic Flight Examiner) during LPCs (License Proficiency Check), OPCs (Operator Proficiency Check) or specials FFS (Full Flight Simulator) sessions for this purposes.

In the correct sequence to obtain the Authorization, the operator shall e-mail to ops@anac.pt its intentions, and:

(i) Operator has to prove to ANAC, via its AOC Appendix II "Opspecs", or Letter of Authorization, from its Competent Authority that is Approved for "Generic" RNP AR APCH (with "RF" leg capability), before an application for an Authorization may be accepted.

(ii) A FOSA taking in account, at least, that for RWY 05, FROP is shorter than recommended, due terrain morphology in final approach leg / Decision point (DA/H) is in "RF" leg / RWY 23 Missed Approach Sector bank angle, limited by Speed Restriction.

(iii) Evidence of "Training and Checking" program as above stated.

(iv) Evidence of operational procedures for normal, abnormal and contingency situations and specific for LPMA RNP AR APCHs taking in account what (ii) states.

Note:

- DME/DME is not applicable (except for a contingency aircraft extraction from the procedure, after 6 minutes of a "GPS PRIMARY LOST", while flying in IRS only).
- As a contingency and in case of remote, or extremely remote failures, with a probability of loss of all navigation information (or similar situation), an immediate turn to 139° (by the shorter direction) and climbing to 3000FT or above, will always extract in a safe manner the aircraft from the obstacle areas. Contact Madeira TWR or APP for further clearance.

When "Authorization Required" is obtained from ANAC, a Letter of Authorization will be sent to "operator" with all conditions stated.

One of the conditions is a "Temporary Initial Limitation" for specific operational experience gaining:

- (i) Each approved pilot Commander for this operation will operate the first RNP AR APCH in VMC conditions.
- (ii) The 2nd and 3rd approach will be limited with CMV (Converted Meteorological Visibility) for RNP 0.3 (for any of the runways and their "approach category" A, B, C or D) plus 500M.
- (iii) 4th approach and further, according to the approval that all of operator's aircraft / pilot are approved by its competent authority (i.e. RNP 0.1 minima).

RWY Backtrack Operations

RWY backtrack operations forbidden to aircraft with MTOW above 30 TONS. These operations must be done only on turning bays. Exception made to Medical Evacuation, SAR and Emergency Flights.

Departure procedures

Introduction

- Pilots are advised to select full power on Take-off in the presence of turbulence or down draft reports.
- Take-off on both runways must be made in a minimum visibility of 2800 meters. Required take-off alternate.
- There are curved trajectories defined for both runways and for all engines operating.
- Each operator must prepare its own engine failure procedure.

Take-off Runway 05

1. After take-off start right turn, as soon as practicable to avoid high ground on the left side (see appropriate visual take-off chart-MAP/LPMA-TKOF).
2. See description of SID on paragraphs LPMA AD 2.22.

Take-off Runway 23

1. After take-off start the left turn, as soon as practicable, to avoid high ground on the right side (see appropriate visual take-off chart-MAP/LPMA-TKOF).
2. With westerly winds, tail windshears may be expected. Anemometer readings reported by tower at the end of the runway and at Rosario may indicate this possibility.
3. See description of SID on paragraphs LPMA AD 2.22.

Night Operations

A captain can operate at night provided he has previously operated and got familiar with Madeira Airport during daytime.

Training flights are forbidden daily during night period, between 23:00 (22:00) and 08:00 (07:00).

3. Radio Communication

Departing Traffic shall contact Madeira TWR/APP in freq 124.660 MHZ or 119.605 MHZ according to ATIS information, til 10MIN before estimated time for departure, for:

1. AD information.
2. modify/confirm ETD.

NOTE: Start up of flights affected by AFTM measures are to observe the stated in paragraph 1.9.5 of Air Traffic Flow Management (ATFM) and Airspace Management (ENR 1.9).

4. Acceptance of private Flying Club and Delivery aircraft

24 hours PPR required.

5. Pilots information report

Pilot's shall report to ATC or Airport Operations, as soon as possible, any deficiency that may affect operational conditions.

6. Apron operation and procedures

6.1 Push-back, Start-up and Taxiing

Aircraft engine start-up is only allowed after push-back manoeuvre with aircraft positioned in breakaway area.

All aircrafts must activate anti-collision lights before starting engines.

To prevent blast damage in aircraft equipment and personnel, all aircraft operations on the apron must be made using lowest power setting.

Pilots shall contact MADEIRA Tower for departure approval, 10 minutes before Start-up, and shall provide the following information:

- a. Call Sign
- b. Stand Number
- c. Cruising Level
- d. ATIS ACK

6.2 Marshaller

Marshaller assistance is compulsory for parking in entire airport Apron area. Stand entrance is only allowed with Follow-me assistance.

6.3 Engine Test runs

Engine test runs must be made on the runway. Engine test runs in idle power may take place on Stands, with the prior authorization of the Airport Operations.

Test are only permitted between 06:00 to 23:00 (05:00 to 22:00) and with the prior authorization of the Airport Operations .

7. Parking Restrictions

Due to Aircraft parking shortage at LPMA AD it is mandatory submit a request according procedures on GEN 1.2.2 item 1.2.2.1 - Scheduling Coordination.

Push-Back from A01 and A02 facing East, must be coordinated with Airport Operations and with the Follow-me assistance.

8. Refuel Operations

All refuelling operations with passengers on board, embarking or disembarking, are only allowed with a RFFS Vehicle on prevention and must have previous authorization of Airport Operations.

Accordingly Crews must contact the following frequencies:

- Ground Operations Groundforce - frequency 131.850 MHZ
- Ground Operations Portway - frequency 131.875 MHZ

9. Handling Services

All commercial aircraft operating in Madeira Aerodrome must be represented by one of the Agents mentioned on the list below.

Taxi / private crews are advised to contact Agent before operation.

Crew, Passengers and baggage transportation is only provided by full Agents only.

Cargo handling is only provided by full handling Agents only.

Authorized Full Handling Agents:

GROUNDFORCE PORTUGAL

Duty Station Manager

Telephone: +351 291520810

Mobile Phone: +351 965641227

FAX: +351 291520824

E-mail: stationmanager.fnc@groundforce.pt

AFTN: LPPTTAPF

SITA: FNCKKXH

Operations Center/Flight Watch/- VHF 131.850 MHZ

Telephone: +351 291520807

FAX: +351 291520829

E-mail: hoc.fnc@groundforce.pt

AFTN: LPPTTAPF

SITA: FNCSCXH

PORTWAY HANDLING PORTUGAL, SA

Telephone: +351 291520920

FAX: +351 291520921

SITA: FNCKPXH

Email: Duh.funchal@portway.pt

VHF FREQ 131.875 MHZ

OMNI HANDLING - MADEIRA STATION

Telephone: +351 291520860

Mobile Phone: +351 910275986

Email: madeira@omnihandling.com

Station Manager - Mobile Phone: +351 910275986 - Email: ivone.correia@omnihandling.com

LPMA 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 Madeira 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 (31 daily, 80 weekly)
Special Seasons: Christmas, New Year's Day, Carnival, Easter and "Festa da Flor" (52 daily, 134 weekly)

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

Aircraft classified Level 4,8 and 16, cannot be scheduled between 02:00 (01:00) and 05:00 (04:00);

3. The operating restrictions set out in Item 1 shall not apply to the following cases of force majeure:
- Aircraft operating humanitarian, emergency or evacuation missions;
 - Aircraft to come across urgent situations, taking in account weather, technical failure or flight safety reasons;
 - Air movements subject to an unforeseen schedule alteration due to abnormal disturbance within Air Traffic Control;
 - 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;
 - 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).

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.

LPMA AD 2.22 FLIGHT PROCEDURES

1. FMS RNAV DEPARTURES ROUTES FROM MADEIRA AERODROME

RUNWAY 05/23

GENERAL REMARKS

If unable to comply with FMS RNAV-1 Departure Routes advise ATC on first contact and expect radar vectors.

See Special procedures and operating limitations on LPMA AD 2.20 paragraph 2, particularly paragraphs "Departure Procedures" and "Take-off Runway 05".

RADIO COMMUNICATION 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 FUN 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 FUN DVOR/DME, rejoin the current flight plan route and proceed in accordance with item 2 above.
4. If cleared DCT to..., fly at/to the assigned and acknowledged level or to FL060, whichever is higher, until passing 30 NM DME FUN DVOR /DME maintain the current flight plan route and proceed in accordance with item 2 above.

FMS RNAV SIDs DESCRIPTION: See back of charts LPMA AD 2.24.08-1 and LPMA AD 2.24.08-5

2. FMS RNAV ARRIVAL TO MADEIRA AERODROME

GENERAL REMARKS:

If unable to comply with FMS RNAV-1 Arrivals Routes advise ATC on first contact and expect vectors for final approach.

See Special procedures and operating limitations on LPMA AD 2.20 paragraph 2, particularly paragraphs "Visual Approach Procedures" and "Landing Procedures".

SPEED ADJUSTMENT:

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

RADIO COMMUNICATION FAILURE

RNAV-1 certified

In case of Radio Communications Failure squawk 7600 and:

- a. If cleared by Lisboa Control or Madeira Approach units to proceed via a STAR continue descent to 3000FT via the STAR. Comply with all speed and altitude restrictions to perform an RNAV (GNSS) or RNP-AR approach to the runway in use;
- b. Otherwise continue descent to the last assigned and acknowledged FL or FL100 whichever is higher, proceed direct to PILIM and hold as published. At PILIM holding start descent to 3000FT to perform an RNAV (GNSS) or RNP-AR approach to the runway in use;
- c. If unable to perform RNAV (GNSS) or RNP-AR approaches continue descent to the last assigned and acknowledged FL or FL100 whichever is higher, proceed direct to ABUSU and hold as published. At ABUSU holding start descent to 3000FT to perform a VOR/DME approach with circling to the runway in use.

Non RNAV equipped

In case of Radio Communications Failure squawk 7600 and continue descent to the last assigned and acknowledged FL or FL100 whichever is higher, proceed direct to ABUSU and hold as published. At ABUSU holding start descent to 3000FT to perform a VOR/DME approach with circling to the runway in use.

Flights below FL100

In case of Radio Communications Failure below FL100 squawk 7600,

- a. If visual with the runway perform a Visual Approach;
- b. If IMC and flying on a STAR continue descent to 3000FT via the STAR. Comply with all speed and altitude restrictions to perform an RNAV (GNSS) or RNP-AR approach to the runway in use;
- c. If IMC and flying direct continue descent to 3000FT to:
 1. PILIM to perform an RNAV (GNSS) or RNP-AR approach or;
 2. ABUSU to perform a VOR/DME with circling to the runway in use.

FMS RNAV ARRIVAL DESCRIPTION: See back of charts LPMA AD 2.24.10-1

3. VISUAL APPROACH PROCEDURES

QFE values are related to the elevation of each threshold.

To Runway 05

- On downwind MNM 940 FT/QNH (794 FT/QFE).
- During approach, the aircraft must cross the coast over GELO (323952N 0164812W) MNM 850 FT/QNH (704 FT/QFE) THR 05, then he should follow the curved approach lights, not passing to the North side (to the left) of them. By ROSARIO (324042N 0164800W) he should be MNM 460 FT/QNH (314 FT/QFE).
- At night the RWY 05 approach lights MUST BE ON. If those lights fail before the aircraft is in such a position, over those lights, that will ensure that the high ground on their left side will be avoided, a missed approach (right turn) should be initiated.
- PAPI should be followed. They are set to define a 3° descent path crossing the Threshold at 57 FT.
- Runway slope - see LPMA AD 2.24.04-3

NOTE: Due to high terrain, caution should be exercised to avoid flying left of approach lights path to RWY 05

To Runway 23

In order to never cross to the right (north) of radial 235 from DVOR/DME FUN:

- On the visual approach initiated overhead DVOR/DME FUN the aircraft should be kept slightly left on this radial until a point where - with touchdown zone and PAPI in sight - it has to line up with the runway.
 - Maintain MDA (H) until intersecting the 3° final descend path defined by the PAPI, which crosses the Threshold at 57 FT
 - Due to high terrain on the right (north) side of the approach - Pico do Facho mountain and a cliff - do not deviate to the right of the extended centre line of Runway 23
1. Pico do Facho: altitude 1129 FT, distance 1023 M abeam a point 1NM from Threshold;
 2. Cliff altitude 558 FT, distance 608 M abeam the same point.
- At night the hills (Pico do Facho) on your right may be confused with mist. This obstacle is lighted.
 - Touchdown Runway 23 out of control Tower visual range
 - Touchdown zone lighting is provided
 - A go around manoeuvre should be performed if the aircraft has not landed by the end of these lights.

4. Wind out of limits procedures

- a. A landing clearance will not be issued and missed approach / go around instructions will be provided immediately by ATC if winds exceed published landing limits when:
 1. An approaching aircraft to runway 05 is reaching the following points:
 - MAPt, when established on approach DVOR RWY05 and instrument approach DVOR/DME CIRCLING RWY 05;
 - MA566, when established on RNP RWY05 and instrument approach RNP RWY 05 – a;
 - MA508, when established on instrument approach RNP Y RWY 05 AR;
 - MA522, when established on instrument approach RNP Z RWY 05 AR.
 2. An approaching aircraft to runway 23 is reaching the following points:
 - MAPt, when established on approach DVOR RWY 23 and instrument approach DVOR/DME CIRCLING RWY 23;
 - MA562 when established on RNP RWY 23 and instrument approaches RNP RWY 23 – b;
 - MA408 when established on instrument approach RNP RWY 23 AR.
- b. If a pilot insists on landing even though clearance has not been issued and he/she has been informed of the current wind limitations on the use of aerodrome, ATC will ensure that runway is clear and inform him/her that landing without clearance will be his/her own responsibility.
- c. Landing at pilot's responsibility does not relieve him/her from compliance with published wind operating limitations and of any responsibility whatsoever in connection with a violation of applicable rules and regulations.
- d. In case winds exceed published landing limits after an aircraft has been cleared to land, TWR will not cancel landing clearance to avoid ATC-induced circumstances and it will be pilot's responsibility to evaluate whether flight conditions are suitable to complete the approach or flight safety dictates the initiation of a missed approach / go around procedure.
- e. If a pilot insists on taking off even though he/she has been informed of the current wind limitations on the use of aerodrome for departure, ATC will not issue take off clearance, will ensure that runway is clear and inform him/her that taking off without clearance will be his/her own responsibility.

5. Landing procedures

All landings are to be made in visual conditions (see appropriate chart)

- a. Approach Runway 05 must be made in a minimum visibility of 5000 meters (see AD 2.24.12-1)

- b. Approach Runway 23 must be made in a minimum visibility of 7000 meters (see AD 2.24.12-3)
- c. RNP AR - All landings are to be accomplished while maintaining visual references to the runway, either after passing DA or MDA in instrument approaches or in terminating visual approaches.

RNP AR RWY 05/23 - Additional Information

Criteria deviations from ICAO

Referring to Required Navigation Performance Authorization Required (RNP AR) Procedure Design Manual:

- the minimum IAS for Cat D is 165kt;
- for Missed Approach less than RNP 1 value, FROP should be at 50 seconds from DA;
- the maximum bank angle for Approach is 20° and 15° for Missed Approach.

All deviations from the above criteria are listed below and shall be addressed in the FOSA:

RNP AR RWY 05

FROP

- Located at 0.6 NM from THR05, so by definition, less than 50s from DA.
- For all aircraft categories and RNP AR values in final segment, DA is reached before FROP (MA502 - inside the RF turn).

Final Approach Speed

Type	Procedure Ident	Segment	Speed (kt)
Final Segment	MA522	MA522 - MA520	160

Missed Approach Bank Angle

Type	Procedure Ident	Segment	Procedure Bank Angle (°)
Missed Approach Segment	MONEC	MA550 - MA552	15.05

RNP AR RWY 23

Missed Approach Bank Angle

Type	Procedure Ident	Segment	Procedure Bank Angle (°)
Missed Approach Segment	MONEC PILIM	RWY05 - MA406	20.17

6. 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
ABUSU ABUSU 325201N0163808W (RDL031-DME08 FUN DVOR/DME)	211°	RIGHT	230	3000 FT ALT FL 140	5 NM
ABUSU ABUSU 325201N0163808W (RDL031-DME08 FUN DVOR/DME)	211°	RIGHT	280	FL 150 FL 999	11 NM
FUSUL FUSUL 323605N0163943W RDL170-DME09 FUN DVOR/DME	350°	LEFT	230	4000 FT ALT FL 140	5 NM
FUSUL FUSUL 323605N0163943W RDL170-DME09 FUN DVOR/DME	350°	LEFT	280	FL 150 FL 999	12 NM

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
MONEC MONEC 322723N0164949W	025°	LEFT	230	3000 FT ALT FL 100	1 MIN
PILIM PILIM 325115N0163529W	227°	RIGHT	230	3000 FT ALT FL 100	1 MIN

LPMA AD 2.23 ADDITIONAL INFORMATION

1. Bird concentrations in the Movement Area and in the vicinity of the Airport

Birds activity takes place daily from sunrise to sunset at the movement area (including STRIPS) and in the vicinity of the airport. As far as practicable, Air Traffic Service will inform pilots of this bird activity and the estimated location, if possible. During the above periods, pilots of aircraft are advised that birds may not always be promptly detected and caution is requested during approach-to-land, descent, take-off, climb and taxi procedures.

Dispersal activities include the using of gas cannon units, scarecrow hand-held and vehicle devices distress calls, the presence of wildlife personnel and falconry is also used with predatory birds, such as falcons and hawks. A Wildlife Hazard Management Plan is also in force in Madeira Airport.

Gas cannon activity and falconry takes place during all year, daily from sunrise to sunset and scarecrow devices area activated whenever birds are detected. Wildlife personnel available daily between sunrise and sunset.

2. Grass cutting

Grass cutting will take place along Strip RWY 05/23, daily from 08:00-18:00 (07:00-17:00). Men and equipment under Tower control and airport authority supervision.

LPMA AD 2.24 CHARTS RELATED TO AN AERODROME

Name	Page
AERODROME CHART - ICAO	LPMA AD 2.24.01-1
AIRCRAFT PARKING / DOCKING CHART - ICAO	LPMA AD 2.24.02-1
AERODROME OBSTACLE CHART - ICAO - RWY 23	LPMA AD 2.24.04-1
AERODROME OBSTACLE CHART - ICAO - RWY 05	LPMA AD 2.24.04-3
RNAV STANDARD DEPARTURE INSTRUMENT CHART (SID) - RWY 05	LPMA AD 2.24.08-1
RNAV STANDARD DEPARTURE INSTRUMENT CHART (SID) - RWY 23	LPMA AD 2.24.08-5
RNAV STANDARD ARRIVAL INSTRUMENT CHART (STAR) - RWY 05 / 23	LPMA AD 2.24.10-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART-ICAO	LPMA AD 2.24.11-1
INSTRUMENT APPROACH CHART - DVOR/DME CIRCLING RWY 05	LPMA AD 2.24.12-1
INSTRUMENT APPROACH CHART - DVOR/DME CIRCLING RWY 23	LPMA AD 2.24.12-3
INSTRUMENT APPROACH CHART - ICAO - RNP Y RWY 05 AR	LPMA AD 2.24.12-5
INSTRUMENT APPROACH CHART - ICAO - RNP Z RWY 05 AR	LPMA AD 2.24.12-7
INSTRUMENT APPROACH CHART - ICAO - RNP RWY 23 AR	LPMA AD 2.24.12-9
INSTRUMENT APPROACH CHART - ICAO - RNP RWY 05 - a	LPMA AD 2.24.12-11
INSTRUMENT APPROACH CHART - ICAO - RNP RWY 23 - b	LPMA AD 2.24.12-13
VISUAL APPROACH AND LANDING CHART - DVOR RWY 05	LPMA AD 2.24.13-1
VISUAL APPROACH AND LANDING CHART - DVOR RWY 23	LPMA AD 2.24.13-3
VISUAL TAKE-OFF CHART - RWY 05	LPMA AD 2.24.13-5

Name	Page
VISUAL TAKE-OFF CHART - RWY 23	LPMA AD 2.24.13-7
VISUAL APPROACH AND LANDING CHART - RNP RWY 05	LPMA AD 2.24.13-9
VISUAL APPROACH AND LANDING CHART - RNP RWY 23	LPMA AD 2.24.13-11

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AD 2 AERODROMES**LPAZ AD 2.****LPAZ AD 2.1 AERODROME LOCATION INDICATOR AND NAME**

LPAZ - SANTA MARIA

LPAZ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site	LAT: 365826N LONG. 0251016W Intersection Runway 18/36 with Taxiway C
2	Direction and distance of ARP from city or town	5KM (2.7NM) BRG 328° GEO from City Hall in Vila do Porto
3	Elevation/Reference temperature	94 M / 308 FT 23° C (AUG)
4	Geoid undulation at aerodrome elevation position	54M
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 de Santa Maria Apartado 574 Ilha de Santa Maria – Açores 9580–908 VILA DO PORTO Phone: AD Administration: +351 296820020 AD Operations: +351 296820023 Fax: AD Administration: +351 296886170 AD Operations: +351 296886335 AFS: LPAZYDYA Email: santamaria.airport@ana.pt URL: http://www.ana.pt
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	NIL

LPAZ AD 2.3 OPERATIONAL HOURS

1	AD Operator	07:45-22:30 (06:45-21:30)
2	Customs and immigration	H24
3	Health and sanitation	On Request
4	AIS Briefing Office	Pre-flight Information Bulletins can be supplied upon request through AD Operations Service 07:30-22:30 (06:30-21:30) or, according GEN 3.1.1.2, via direct contact (telephone, fax or e-mail) with any AIS/ARO aerodrome unit.
5	ATS Reporting Office (ARO)	Acceptance and forwarding of FPL and associated messages or post flight reports is possible through AD Operations service or, according GEN 3.1.1.2, via direct contact (telephone, fax or e-mail) with any AIS/ARO aerodrome unit.
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	09:00-21:00 (08:00-20:00) Fuel available 21:00-09:00 (20:00-08:00) on request with PPR of one hour, subject to a surcharge of US\$100.

9	Handling	07:00-01:00 (06:00-24:00) (Outside these hours services available on request)
10	Security	H24
11	De-icing	Not available
12	Remarks	Aerodrome reopening after closing time for non-emergency flights or background assistance, must be dully justified and submitted to approval of AD Administration until 21:00 (20:00). Reopening RFF CAT 3 will be granted 1 hour after ATC request for Search and rescue and MEDEVAC movements. Reopening fees are applicable (see GEN 4.1.6 Other).

LPAZ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities:	Loader (6.5 tons) One Fork Lift (1.5 tons) One Fork Lift (5 tons) Sufficient number of various vehicles and equipment
2	Fuel/oil types	JET A1 BP Turbo Oil 2380, Aviation Oil 100 and Aeroshell Oil W100
3	Fuelling facilities/capacity	Hydrant System and Fuel Trucks. Delivery Rate: JET A1 – 75 litres per Second.
4	De-icing facilities	Not applicable
5	Hangar space available for visiting aircraft	HANGAR: 1500 Square Meters (50x30); Door 24Mx7.5M. Unheat Space.
6	Repair facilities for visiting aircraft	Minor repairs only
7	Remarks	Oxygen and related servicing: Not Available

LPAZ AD 2.5 PASSENGER FACILITIES

1	Hotels	3 Hotels - 350 beds
2	Restaurants	AD Restaurant: 200 meals per hour
3	Transportation	Buses, Taxis and 3 Rent-a-Car Stations
4	Medical facilities	First Aid Treatment, Rest Rooms, 1 Ambulance. Hospital in Vila do Porto [3KM (1.6NM) from Aerodrome].
5	Bank and Post Office	At Aerodrome. Operation Hours for Bank and Post Office: MON-FRI 09:30-17:00 (08:30-16:00)
6	Tourist Office	At Aerodrome. Operation Hours for Tourist Office: MON-FRI 09:30-17:00 (08:30-16:00)
7	Remarks	NIL

LPAZ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Within AD HR: - CAT 6 CAT 7 to CAT 9 - Available by prior arrangements with Airport Director *
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 embarqued in fully equipped Crash Tender Vehicle. - RIB
3	Capability for removal of disabled aircraft	High stability pneumatic lifting bags, trailer and towing capability for B707