

PORTUGAL



TEL: +351 218553506
AFTN: LPPPYOYC
Email: desica@nav.pt

Serviço de Informação Aeronáutica (AIS)
Centro de Controlo de Tráfego Aéreo de Lisboa
Rua C, Edifício 118
Aeroporto de Lisboa
1700-007 LISBOA

AIP AMENDMENT: AIRAC 001-24
EFFECTIVE DATE: 22-FEB-2024

1. AIRAC changes incorporated in this AIP Amendment:

GEN

NIL

ENR

- 1.2 VFR FLIGHTS ABOVE FL195, TRANSONIC OR SUPERSONIC PROCEDURES CHANGED.
- 1.11 FPL AFTN ADDRESSING.
- 3.3 ROUTE AZ218, WPT BAROK COORD CORRECTION.
- 4.1 DVOR/DME VMG NEW RESTRICTION.
VOR/DME FTM, VIS, NSA, PRT, NEW RESTRICTION.
- 5.4 AEOLIC PARK ARGÁ-CAMINHA, 3 NEW AEROGENERATORS AND SEVERAL CORRECTIONS.
AEOLIC PARK CARAMULO - FORNEL, 2 NEW AEROGENERATORS.
AEOLIC PARK LAGOA D.JOÃO E FEIRÃO - RESENDE ONE NEW AEROGENERATOR.
AEOLIC PARK MEADAS, 3 NEW AEROGENERATORS.
AEOLIC PARK MOURISCA - CASTRO DAIRE, VILA NOVA DE PAIVA, 2 NEW AEROGENERATORS.
AEOLIC PARK NAVE, 2 NEW AEROGENERATORS.
AEOLIC PARK PERDIGÃO, ONE NEW AEROGENERATORS.
TORRES VEDRAS - NEW METEOROLOGICAL TOWER.
AEOLIC PARK VERGÃO, 5 NEW AEROGENERATORS.
NEW AEOLIC PARK SERRA DO RALO.
NEW AEOLIC PARK PENA SUAR.
- 6.01-1 A975, UZ406, H406 IDENT CORRECTION.
- 6.01-3 UN729 SEGMENT NASAS-LAMDI-AGADO INSERTED.

AD

- LPAZ DVOR/DME VMG NEW RESTRICTION.
- LPCS VOR/DME FTM NEW RESTRICTION.
SID RWY 17 ESP 1M CHANGED.
- LPHR DVOR/DME VMG NEW RESTRICTION.
STAR RWY 10, WPT HR458 REPLACED BY FATAG. STAR PROCEDURE DESIGNATION CHANGED.
STAR RWY 28, WPT HR458 REPLACED BY FATAG. STAR PROCEDURE DESIGNATION CHANGED.
- LPLA OMNIDIRECTIONAL DEPARTURES RWY 15 CHANGED.
SID RWY 15 DOLER 1D, MIPRU 1D, REGLA 1D, CHANGED.

LPPD	DVOR/DME VMG NEW RESTRICTION.
LPPR	TWY S3, INTERMEDIATE HOLDING POSITION WITHDRAWN.
	VOR/DME PRT NEW RESTRICTION.
LPPT	VOR/DME FTM, NSA, NEW RESTRICTION.
LPVR	VOR/DME VIS NEW RESTRICTION.

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

GEN

1.1	GPIAFF CONTACTS CHANGED.
4.2	BASIC UNIT RATE AND EXCHANGE RATES CHANGED.

ENR

5.3	IPMA CONTACT CHANGED
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AD

1.5	LPVR AD CERTIFICATION VALIDITY CHANGED.
LPVR	AD REFERENCE TEMPERATURE CHANGED.

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

NOTAM Series A:

A3256/23 A3257/23 A3258/23 A3259/23 A3260/23 A3261/23 A3262/23 A3263/23 A3264/23 A3729/23
A3830/23 A4508/23 A4528/23 A4569/23 A4570/23 A4571/23 A5229/23 A5230/23 A5231/23 A5232/23
A5233/23 A5234/23 A5272/23 A5293/23 A5294/23 A5295/23

NOTAM incorporated in this AMDT will be cancelled by NOTAMC on 07-MAR-2024.

SUP: 075/2023

AIC: A 038/2003

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

Insert the following pages

GEN 0.2 - 1/2	22-FEB-2024
GEN 0.3 - 1/2	22-FEB-2024 / 22-FEB-2024
GEN 0.3 - 3/4	22-FEB-2024 / 22-FEB-2024
GEN 0.4 - 1/2	22-FEB-2024 / 22-FEB-2024
GEN 0.4 - 3/4	22-FEB-2024 / 22-FEB-2024
GEN 1.1 - 3/4	22-FEB-2024 / 22-FEB-2024
GEN 4.2 - 1/2	22-FEB-2024 / 01-MAY-2014
GEN 4.2 - 3/4	01-MAY-2014 / 22-FEB-2024
GEN 4.2 - 5/6	22-FEB-2024 / 22-FEB-2024
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ENR 1.11 - 1/2	22-FEB-2024 / 22-FEB-2024
ENR 3.3 - 33/34	19-MAY-2022 / 22-FEB-2024
ENR 4.1 - 1/2	22-FEB-2024 / 22-FEB-2024
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ENR 5.3 - 1/2	22-FEB-2024 / 22-FEB-2024
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ENR 6.01-1 - 1/2	22-FEB-2024
ENR 6.01-3 - 3/4	22-FEB-2024
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LPCS AD 2 - 11/12	13-JUL-2023 / 22-FEB-2024
LPCS AD 2.24.08-1 - 1/2	22-FEB-2024 / 22-FEB-2024
LPHR AD 2 - 7/8	19-MAY-2022 / 22-FEB-2024
LPHR AD 2 - 11/12	15-JUN-2023 / 22-FEB-2024
LPHR AD 2.24.10-5 - 5/6	22-FEB-2024 / 22-FEB-2024
LPHR AD 2.24.10-7 - 7/8	22-FEB-2024 / 22-FEB-2024
LPLA AD 2 - 11/12	12-AUG-2021 / 22-FEB-2024
LPLA AD 2 - 13/14	22-FEB-2024
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LPPT AD 2 - 15/16	22-FEB-2024 / 19-MAY-2022
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LPPT AD 2 - 29/30	22-FEB-2024 / 01-DEC-2022
LPPD AD 2 - 9/10	22-FEB-2024 / 15-JUN-2023
LPPR AD 2 - 13/14	22-FEB-2024 / 10-AUG-2023
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LPPR AD 2.24.01-1 - 1/2	22-FEB-2024
LPPR AD 2.24.02-1 - 1/2	22-FEB-2024
LPAZ AD 2 - 9/10	22-FEB-2024 / 15-JUN-2023
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LPVR AD 2 - 7/8	22-FEB-2024 / 15-JUN-2023

Remove the following pages

GEN 0.2 - 1/2	30-NOV-2023 / N/A
GEN 0.3 - 1/2	30-NOV-2023 / 30-NOV-2023
GEN 0.4 - 1/2	30-NOV-2023 / 30-NOV-2023
GEN 0.4 - 3/4	30-NOV-2023 / 30-NOV-2023
GEN 1.1 - 3/4	07-DEC-2017 / N/A
GEN 4.2 - 1/2	27-JAN-2023 / 01-MAY-2014
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GEN 4.2 - 5/6	27-JAN-2023 / N/A
ENR 1.2 - 1/2	27-JAN-2023 / 27-JAN-2023
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ENR 5.4 - 15/16	10-AUG-2023 / 10-AUG-2023
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ENR 5.4 - 21/22	10-AUG-2023 / 10-AUG-2023
ENR 5.4 - 23/24	10-AUG-2023 / 10-AUG-2023
ENR 5.4 - 25/26	10-AUG-2023 / 10-AUG-2023
ENR 5.4 - 27/28	10-AUG-2023 / 10-AUG-2023
ENR 5.4 - 29/30	10-AUG-2023 / 10-AUG-2023
ENR 5.4 - 31/32	10-AUG-2023 / 10-AUG-2023
ENR 5.4 - 33/34	10-AUG-2023 / 10-AUG-2023
ENR 5.4 - 35/36	10-AUG-2023 / 10-AUG-2023
ENR 5.4 - 37/38	10-AUG-2023 / 10-AUG-2023
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ENR 6.01-3 - 3/4	30-NOV-2023 / N/A
AD 1.5 - 1/2	15-JUN-2023 / N/A
LPCS AD 2 - 9/10	13-JUL-2023 / 13-JUL-2023
LPCS AD 2 - 11/12	13-JUL-2023 / 13-JUL-2023
LPCS AD 2.24.08-1 - 1/2	24-MAR-2022 / 24-MAR-2022
LPHR AD 2 - 7/8	19-MAY-2022 / 19-MAY-2022
LPHR AD 2 - 11/12	15-JUN-2023 / 15-JUN-2023
LPHR AD 2.24.10-5 - 5/6	02-DEC-2021 / 02-DEC-2021
LPHR AD 2.24.10-7 - 7/8	02-DEC-2021 / 02-DEC-2021
LPLA AD 2 - 11/12	12-AUG-2021 / 15-JUN-2023
LPLA AD 2 - 13/14	15-JUN-2023 / N/A
LPLA AD 2.24.08-1 - 1/2	02-DEC-2021 / 24-MAR-2022
LPLA AD 2.24.08-3 - 3/4	02-DEC-2021 / 24-MAR-2022
LPLA AD 2.24.08-5 - 5/6	02-DEC-2021 / 24-MAR-2022
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LPPT AD 2 - 27/28	19-MAY-2022 / 19-MAY-2022
LPPT AD 2 - 29/30	19-MAY-2022 / 01-DEC-2022
LPPD AD 2 - 9/10	19-MAY-2022 / 15-JUN-2023
LPPR AD 2 - 13/14	02-DEC-2021 / 10-AUG-2023
LPPR AD 2 - 15/16	10-AUG-2023 / 10-AUG-2023
LPPR AD 2 - 23/24	10-AUG-2023 / 30-NOV-2023
LPPR AD 2.24.01-1 - 1/2	23-MAR-2023 / N/A
LPPR AD 2.24.02-1 - 1/2	24-MAR-2022 / N/A
LPAZ AD 2 - 9/10	19-MAY-2022 / 15-JUN-2023
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LPVR AD 2 - 7/8	19-MAY-2022 / 15-JUN-2023

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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	

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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
054/2021	LPPC LPPO FIR - FLIGHTS CARRYING COVID-19 VACCINES	ENR	02-DEC-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
066/2022	LPPT AD - OBSTACLE ERECTED	AD	01-DEC-2022	31-MAR-2024 EST
004/2023	LPLA AD - OBSTACLES (ANTENNAS)	AD	27-JAN-2023	Effective UFN
011/2023	LPPT AD - OBSTACLE ERECTED	AD	27-JAN-2023	31-MAR-2024 EST
027/2023	LPFR AD - STAND CLOSED	AD	23-MAR-2023	Effective UFN
030/2023	LPPS AD - RWY 18 TURN PAD CLOSED	AD	23-MAR-2023	Effective UFN
034/2023	LPPT AD - OBSTACLE ERECTED (FACULDADE FARMÁCIA)	AD	23-MAR-2023	31-JAN-2024 EST
038/2023	LPPR AD - NON-STANDARD PARKING ON STAND S42	AD	26-MAR-2023	Effective UFN
044/2023	BELARUSSIAN AIRCRAFT RESTRICTIONS	ENR	15-JUN-2023	28-FEB-2024 EST
050/2023	LPPT AD - CRANE ERECTED (CAMPO NOVO)	AD	15-JUN-2023	15-MAR-2024 EST
056/2023	LPPR AD - NON-STANDARD PARKING PROCEDURE	AD	13-JUL-2023	30-JUN-2024 EST
057/2023	LPPT AD - OBSTACLE ERECTED (CRANE)	AD	13-JUL-2023	31-JAN-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

NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
063/2023	LPCS AD - OBSTACLE ERECTED	AD	10-AUG-2023	31-JAN-2024 EST
066/2023	LPFR AD - OBSTACLE ERECTED	AD	30-NOV-2023	30-APR-2024 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
070/2023	LPPT AD - OBSTACLE ERECTED	AD	30-NOV-2023	31-JAN-2024 EST
071/2023	LPPC FIR - OBSTACLE LIGHTING INOP	ENR	30-NOV-2023	22-FEB-2024 EST
072/2023	LPMA AD - TEMPORARY PARKING RESTRICTIONS	AD	30-NOV-2023	15-JAN-2024 EST
074/2023	LPPC FIR - OBSTACLES ERECTED	ENR	30-NOV-2024	30-JUN-2024 EST
076/2023	LPFR AD - OBSTACLE ERECTED	AD	30-NOV-2023	30-APR-2024 EST
001/2024	LOCATOR PI U/S	ENR	22-FEB-2024	31-DEC-2024 EST
002/2024	LPLA AD - DISPLACED THRESHOLD RWY 33	AD	22-FEB-2024	05-APR-2024
003/2024	LPPC FIR - OBSTACLE ERECTED	ENR	22-FEB-2024	31-DEC-2025 EST
004/2024	LPPS AD - IAP PART LPV RWY 18/36 SUSPENDED	AD	22-FEB-2024	31-DEC-2024 EST
005/2023	LPPD AD - CRANE ERECTED	AD	22-FEB-2024	05-APR-2024 EST
006/2024	LPPT AD - OBSTACLE ERECTED	AD	22-FEB-2024	30-JUN-2025 EST
007/2024	LPPT AD - OBSTACLE ERECTED	AD	22-FEB-2024	31-MAY-2025 EST
008/2024	LPPT AD - OBSTACLE ERECTED	AD	22-FEB-2024	31-MAY-2025 EST
009/2024	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
014/2024	LPPD AD - ARO/AIS-AD OPERATING HOURS	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

NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
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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

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LPPD AD 2.24.12 - 9	02-DEC-2021	LPPS AD 2.24.13 - 1	14-JUL-2022		
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LPPD AD 2.24.12 - 13	02-DEC-2021	LPAZ AD 2 - 2	09-JAN-2014		
LPPD AD 2.24.12 - 15	30-NOV-2023	LPAZ AD 2 - 3	12-AUG-2021		
LPPD AD 2.24.12 - 16	02-DEC-2021	LPAZ AD 2 - 4	19-SEP-2013		
LPPD AD 2.24.12 - 17	24-MAR-2022	LPAZ AD 2 - 5	19-MAY-2022		
LPPD AD 2.24.12 - 18	19-MAY-2022	LPAZ AD 2 - 6	01-DEC-2022		
LPPD AD 2.24.12 - 19	24-MAR-2022	LPAZ AD 2 - 7	14-JUL-2022		
LPPD AD 2.24.12 - 20	19-MAY-2022	LPAZ AD 2 - 8	19-MAY-2022		
LPPD AD 2.24.12 - 21	24-MAR-2022	LPAZ AD 2 - 9	22-FEB-2024		
LPPD AD 2.24.12 - 22	19-MAY-2022	LPAZ AD 2 - 10	15-JUN-2023		
LPPD AD 2.24.13 - 1	02-DEC-2021	LPAZ AD 2 - 11	30-NOV-2023		
LPSO AD 2 - 1	01-DEC-2022	LPAZ AD 2.24.01 - 1	02-DEC-2021		
LPSO AD 2 - 2	27-JAN-2023	LPAZ AD 2.24.02 - 1	02-DEC-2021		
LPSO AD 2 - 3	27-JAN-2023	LPAZ AD 2.24.04 - 1	02-DEC-2021		
LPSO AD 2 - 4	27-JAN-2023	LPAZ AD 2.24.08 - 1	02-DEC-2021		
LPSO AD 2 - 5	30-NOV-2023	LPAZ AD 2.24.08 - 2	02-DEC-2021		
LPSO AD 2 - 6	27-JAN-2023	LPAZ AD 2.24.08 - 3	02-DEC-2021		
LPSO AD 2 - 7	30-NOV-2023	LPAZ AD 2.24.08 - 4	02-DEC-2021		
LPSO AD 2.24.01 - 1	27-JAN-2023	LPAZ AD 2.24.10 - 1	02-DEC-2021		
LPSO AD 2.24.12 - 1	27-JAN-2023	LPAZ AD 2.24.10 - 2	02-DEC-2021		
LPSO AD 2.24.12 - 3	01-DEC-2022	LPAZ AD 2.24.12 - 1	14-JUL-2022		
LPSO AD 2.24.13 - 1	30-NOV-2023	LPAZ AD 2.24.12 - 3	02-DEC-2021		
LPVR AD 2 - 1	10-AUG-2023	LPAZ AD 2.24.12 - 5	02-DEC-2021		
LPVR AD 2 - 2	10-AUG-2023	LPAZ AD 2.24.12 - 7	02-DEC-2021		
LPVR AD 2 - 3	07-OCT-2021	LPAZ AD 2.24.12 - 9	02-DEC-2021		
LPVR AD 2 - 4	07-OCT-2021	LPAZ AD 2.24.12 - 11	14-JUL-2022		
LPVR AD 2 - 5	07-OCT-2021	LPAZ AD 2.24.12 - 13	30-NOV-2023		
LPVR AD 2 - 6	07-OCT-2021	LPAZ AD 2.24.12 - 14	27-JAN-2023		
LPVR AD 2 - 7	07-OCT-2021	LPAZ AD 2.24.12 - 15	30-NOV-2023		
LPVR AD 2 - 8	23-MAR-2023	LPAZ AD 2.24.12 - 16	01-DEC-2022		
LPVR AD 2 - 9	07-OCT-2021	LPAZ AD 2.24.13 - 1	24-MAR-2022		
LPVR AD 2 - 10	14-JUL-2022	LPVR AD 2 - 1	22-FEB-2024		
LPVR AD 2 - 11	06-OCT-2022	LPVR AD 2 - 2	12-AUG-2021		
LPVR AD 2 - 12	14-JUL-2022	LPVR AD 2 - 3	14-JUL-2022		
LPVR AD 2 - 13	22-FEB-2024	LPVR AD 2 - 4	19-MAY-2022		
LPVR AD 2 - 14	10-AUG-2023	LPVR AD 2 - 5	14-JUL-2022		
LPVR AD 2 - 15	10-AUG-2023	LPVR AD 2 - 6	14-JUL-2022		
LPVR AD 2 - 16	22-FEB-2024	LPVR AD 2 - 7	22-FEB-2024		
LPVR AD 2 - 17	10-AUG-2023	LPVR AD 2 - 8	15-JUN-2023		
LPVR AD 2 - 18	10-AUG-2023	LPVR AD 2.24.01 - 1	14-JUL-2022		
LPVR AD 2 - 19	10-AUG-2023	LPVR AD 2.24.12 - 1	19-MAY-2022		
LPVR AD 2 - 20	10-AUG-2023	LPVR AD 2.24.12 - 2	19-MAY-2022		
LPVR AD 2 - 21	10-AUG-2023	LPVR AD 2.24.13 - 1	19-MAY-2022		
LPVR AD 2 - 22	10-AUG-2023				
LPVR AD 2 - 23	10-AUG-2023				
LPVR AD 2 - 24	22-FEB-2024				
LPVR AD 2 - 25	30-NOV-2023				
LPVR AD 2.24.01 - 1	22-FEB-2024				
LPVR AD 2.24.02 - 1	22-FEB-2024				
LPVR AD 2.24.02 - 3	24-MAR-2022				
LPVR AD 2.24.04 - 1	30-NOV-2023				
LPVR AD 2.24.06 - 1	30-NOV-2023				
LPVR AD 2.24.08 - 1	02-DEC-2021				
LPVR AD 2.24.08 - 2	12-AUG-2021				
LPVR AD 2.24.08 - 3	02-DEC-2021				
LPVR AD 2.24.08 - 4	12-AUG-2021				
LPVR AD 2.24.08 - 5	02-DEC-2021				
LPVR AD 2.24.08 - 6	12-AUG-2021				
LPVR AD 2.24.08 - 7	02-DEC-2021				
LPVR AD 2.24.08 - 8	12-AUG-2021				
LPVR AD 2.24.10 - 1	02-DEC-2021				
LPVR AD 2.24.10 - 2	12-AUG-2021				
LPVR AD 2.24.10 - 3	24-MAR-2022				
LPVR AD 2.24.10 - 4	24-MAR-2022				
LPVR AD 2.24.11 - 1	01-DEC-2022				
LPVR AD 2.24.12 - 1	02-DEC-2021				
LPVR AD 2.24.12 - 3	30-NOV-2023				
LPVR AD 2.24.12 - 5	14-JUL-2022				
LPVR AD 2.24.12 - 7	14-JUL-2022				
LPVR AD 2.24.12 - 9	02-DEC-2021				
LPVR AD 2.24.12 - 10	12-AUG-2021				
LPVR AD 2.24.13 - 1	02-DEC-2021				
LPPS AD 2 - 1	25-FEB-2021				
LPPS AD 2 - 2	09-NOV-2017				
LPPS AD 2 - 3	12-AUG-2021				
LPPS AD 2 - 4	12-AUG-2021				
LPPS AD 2 - 5	19-MAY-2022				
LPPS AD 2 - 6	14-JUL-2022				
LPPS AD 2 - 7	14-JUL-2022				
LPPS AD 2 - 8	23-MAR-2023				
LPPS AD 2 - 9	30-NOV-2023				

Email: saude.aeroportos@dgs.pt

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

1.1.6 En-route and Aerodrome/Heliport Charges

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

AFS: LPPTYAYA

Telex: AEROCIVIL LISBOA

Phone: +351 218423500

Fax: +351 218473585

Email: geral@anac.pt

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

1.1.7 Agricultural quarantine

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

AFS: NIL

Phone: +351 213239655
+351 213239653

Fax: +351 213463518

Email: dirgeral@dgav.pt

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

1.1.8 Aircraft accidents investigation

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

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

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

Phone: +351 212739230

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

Notification 24 hours (National):

Digital notification submitted through: www.gpiaaf.gov.pt
Notification via pdf submitted via email: occreport@gpiaaf.gov.pt

Phone: Mobile: +351 915192963

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GEN 4.2 AIR NAVIGATION SERVICE CHARGES**4.2.1 Terminal Charges****Charging scheme for terminal air navigation services provided by NAV Portugal****Basis:**

The calculation of terminal charges at the airports of Lisboa, Porto, Faro, Madeira, Porto Santo, Santa Maria, Ponta Delgada, Horta and Flores and also at Cascais Aerodrome (Charging Zone Portugal - TNC) is in line with the provisions of the COMMISSION IMPLEMENTING REGULATION (EU) 2019/317 of 11 February 2019 laying down a performance and charging scheme in the single European sky and repealing Implementing Regulations (EU) No 390/2013 and (EU) No 391/2013.

The terminal service unit shall be equal to the weight factor for the aircraft concerned.

The weight factor, expressed as a figure taken to two decimal places, is obtained by dividing by fifty the number of metric tons in the highest maximum certified take-off weight of the aircraft to the power of 0,7.

Establishment of terminal unit rate

The terminal unit rate used for calculating terminal charges for air navigation services provided at airports included in the Charging Zone Portugal - TNC is € 173,41 per service unit, applicable from 01.01.2024.

Exemptions:

- a. Aircraft used in exclusive transportation on an official mission of reigning sovereigns and their direct family, State and Government leaders, as well as ministers, providing their status is out pointed in the Flight Plan, or aircraft under the cover of reciprocity agreements confirmed by the Minister of Foreign Affairs.
- b. Military aircraft on a non remunerated official mission or supported by special agreement that bind the Portuguese State, confirmed by the qualified diplomatic or military entities.
- c. Aircraft engaged in Search and Rescue missions as well those related to humanitarian purposes is considered as that by the Airport or Aerodrome exploitation company.
- d. Aircraft complied to return to the airport for duly substantiated technical or meteo reasons without having landed at any other airport.

Reductions:

- a. 50% to 100% reductions for: Aircraft used for local experience, equipment test, instruction, training or personnel examination.

4.2.2 En-route air navigation charges regulations**1. Definitions**

When the following terms are used in these regulations, they have the following meaning:

- Agreement - Multilateral Agreement relating to Route Charges
- Contracting State - State part in Agreement
- EUROCONTROL - The European Organization for the Safety of Air Navigation, EUROCONTROL
- System - Eurocontrol Route Charges System

2. Conditions of application of the route charges system

2.1 A charge shall be levied for each flight performed in accordance with the procedures laid down in application of the Standards and Recommended Practices of the International Civil Aviation Organization in the airspace of the following Charging Zones:

- Lisboa Charging Zone, including Lisboa Flight Information Region and Lisboa Upper Flight Information Region
- Santa Maria Charging Zone, including Santa Maria Flight Information Region.

- 2.2 The aforesaid Flight Information Regions, including the facilities and well as the services provided are described in the Aeronautical Information Publication "AIP - PORTUGAL ".

4.2.3 En-Route cost basis and exemptions/reductions

The charge shall constitute remuneration for the costs incurred by Portugal in respect of en- route air navigation facilities and services and the operation of the Route Charges System, and for the costs incurred by EUROCONTROL in operating the System.

The charge for a flight in the airspace of the aforesaid Charging Zones shall be calculated in accordance with the following formula:

$$r_i = t_i \times N_i$$

Where r_i is the charge, t_i the unit rate of the charge and N_i the number of the service units corresponding to a such flight.

For a given flight, the number of service units, designated N_i , referred to in the foregoing number shall be obtained by means of the following formula:

$$N_i = d_i \times p$$

where d_i is the distance factor in respect of the airspace of the referred charging zone and p the weight factor for the aircraft concerned.

The distance factor (d_i) shall be obtained by dividing by one hundred (100) the number of kilometres in the great circle distance between:

- the aerodrome of departure within, or the point of entry into, the charging zone (i), and
- the aerodrome of first destination within, or the point of exit from, that charging zone (i).

The aforesaid entry and exit points shall be the points at which the lateral limits of the said charging zone are crossed by the route described in the flight plan. This flight plan incorporates any changes made by the operator to the flight plan initially filed as well as any changes approved by the operator resulting from air traffic flow management measures.

The distance to be taken into account shall be reduced by twenty (20) kilometres for each take-off and for each landing on the national territory.

The weight factor "P" shall be the square root of the quotient obtained by dividing by fifty (50) the number of metric tons in the maximum certificated take-off weight of the aircraft as shown in the certificate of airworthiness, the flight manual or any other equivalent official document, as follows:

$$P = \sqrt{\frac{\text{Maximum Take-off Weight}}{50}}$$

Where the maximum certificated take-off weight of the aircraft is not known to the bodies responsible for the collection of the charge, the weight factor shall be calculated by taking the weight of the heaviest aircraft of the same type know to exist.

Where an aircraft has multiple certificated maximum take-off weights, the weight factor shall be established on the basis of the highest maximum take-off weight authorized for the aircraft by its State of registration

Where, however, an operator has indicated to the bodies responsible for the collection of the charge that he operates two or more aircraft which are different versions of the same type, the average of the maximum take-off weights of all his aircraft of that type shall be taken for the calculation of the weight factor for each aircraft of that type. The calculation of this factor per aircraft type and per operator shall be effected at least once a year.

For the purpose of calculating the charge, the weight factor shall be expressed as figure taken to two decimal places.

The following flights shall be exempted from the payment of charges:

- a. flights performed by aircraft of which the maximum take-off weight authorised is less than two (2) metric tons;

- b. flights performed exclusively for the transport, on official mission, of the reigning Monarch and his/her immediate family, Heads of State, Heads of Government, and Government Ministers. In all cases, this must be substantiated by the appropriate status indicator or remark on the flight plan;
- c. search and rescue flights authorised by the appropriate competent body.
- d. flights performed by Portuguese military aircraft;
- e. flights performed by foreign military aircraft from countries which exempt Portuguese military aircraft from the payment of route charges, on a basis of reciprocity;
- f. training flights performed exclusively for the purpose of obtaining a licence, or a rating in the case of cockpit flight crew, and where this is substantiated by an appropriate remark on the flight plan. Flights must be performed solely within this charging zone. Flights must not serve for the transport of passengers and/or cargo, nor for positioning or ferrying of the aircraft;
- g. flights performed exclusively for the purpose of checking or testing equipment used or intended to be used as ground aids to air navigation, excluding positioning flights by the aircraft concerned;
- h. flights terminating at the aerodrome from which the aircraft has taken off and during which no intermediate landing has been made (circular flights);
- i. flights performed exclusively under VFR within this charging zone;
- j. humanitarian flights authorized by the appropriate competent body;
- k. customs and police flights.

The charge shall be payable at EUROCONTROL Headquarters, in accordance with the condition of payment set out in 4.2.4.

The currency of account used shall be the EURO.

For each flight entering the airspace of the Charging Zones falling within the competence of several Contracting States, a single charge (R) shall be collected equal to the sum of the charges (r_i), accruing in respect of that flight in the airspace of the Charging Zones falling within the competence of the individual States concerned:

$$R = \sum_n r_i$$

4.2.4 Conditions of Payment for En-route charges

The amounts billed shall be payable at the EUROCONTROL Headquarters in Brussels.

EUROCONTROL will nevertheless consider payment into the accounts opened in its name with banking establishments in the Contracting or other States designated by the competent bodies of the Route Charges System as a discharge of the payer's liability.

The amount of the charge is due on the date of performance of the flight. The latest date by which payment must be received by EUROCONTROL shall be shown on the bill and is 30 days from the date of the bill.

Payment shall be deemed to have been received by EUROCONTROL on the value date on which the amount due was credited into a designated bank account of EUROCONTROL. The value date shall be the date on which EUROCONTROL can use the funds.

Payments shall be accompanied by a statement giving the references, dates and EURO amounts in respect of bills paid and of any credit notes deducted.

Where a payment is not accompanied by the details specified in paragraph above so as to allow its application to a specific bill or bills, EUROCONTROL will apply the payment:

- first to interest, and then
- to the oldest bills unpaid.

Claims against bills must be submitted to EUROCONTROL in writing or by an electronic medium previously approved by EUROCONTROL. The latest date by which claims must be received by Eurocontrol shall be shown on the bill and is 60 days from the date of the bill.

The date of submission of claims shall be the date on which the claims are received by EUROCONTROL.

Claims must be detailed and should be accompanied by any relevant supporting evidence.

Submission of a claim by a user shall not entitle him to make any deduction from the relevant bill unless so authorised by EUROCONTROL.

Where EUROCONTROL and a user are mutually debtor and creditor no compensation payments shall be effected without EUROCONTROL prior agreement.

Any charge which has not been paid by the latest date for payment shall be increased by the addition thereto of interest at a rate of 13,26% per annum.

The interest, entitled Interest of Late Payment, shall be simple interest calculated from day to day on the unpaid overdue amount. The interest will be calculated and billed in EURO.

Where a debtor has not paid the amount due, measures may be taken to enforce recovery. These measures may include the denial of services, detention of aircraft or other enforcement measures in accordance with applicable law.

Basic Unit Rates applicable as from 01.01.2024		
STATE	GLOBAL UNIT RATE EURO	EXCHANGE RATE APPLIED 1 EURO =
Portugal – Lisboa *	44,26	- / -
Portugal – Santa Maria *	8,49	- / -
Belgium – Luxembourg *	112,19	- / -
Germany *	80,25	- / -
France *	70,99	- / -
United Kingdom	87,40	0,861581 GBP
Netherlands *	95,26	- / -
Ireland *	28,89	- / -
Switzerland	119,54	0,959500 CHF
Austria *	65,94	- / -
Spain – Continental *	62,73	- / -
Spain – Canarias *	50,38	- / -
Greece *	29,38	- / -
Turkey**	32,04	- / -
Malta*	27,98	- / -
Italy*	68,88	- / -
Cyprus*	34,93	- / -
Hungary	28,30	386,286 HUF
Norway	47,35	11,4432 NOK
Denmark	67,56	7,45448 DKK
Slovenia*	67,15	- / -
Romania	45,06	4,96400 RON
Czech Republic	66,15	24,3528 CZK
Sweden	74,66	11,8272 SEK
Slovakia*	59,58	- / -
Croatia*	36,21	- / -

Basic Unit Rates applicable as from 01.01.2024		
STATE	GLOBAL UNIT RATE EURO	EXCHANGE RATE APPLIED 1 EURO =
Bulgaria	30,85	1,95514 BGN
FYROM	47,51	61,2257 MKD
Moldova	227,66	19,1162 MDL
Finland*	57,24	- / -
Albania	48,97	106,332 ALL
Bosnia Herzegovina	26,33	1,95505 BAM
Serbia/Montenegro/KFOR	37,11	117,099 RSD
Lithuania*	63,17	- / -
Poland	54,49	4,59894 PLN
Armenia	47,55	411,704 AMD
Latvia*	44,53	- / -
Georgia	23,81	2,79556 GEL
Estonia*	50,64	- / -
Ukraine	47,90	36,3572 UAH
Southern Ukraine	18,84	36,3572 UAH
* State participating in the Economic Monetary Union		
** State that established its cost basis in Euro		

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ENR 1.2 VISUAL FLIGHT RULES**1. Conditions applicable for VFR flights at night**

For the purpose of SERA 5005 c), excluding Search and Rescue, Medical Emergency, Fire Fighting and State aircraft (Police, Military and Customs) flights, VFR flights at night are permitted in Portugal under the following conditions:

- a. if leaving the vicinity of an aerodrome, a flight plan shall be submitted;
- b. flights shall establish and maintain two-way radio communication on the appropriate ATS communication channel, when available;
- c. the VMC visibility and distance from cloud minima as specified in Table S5-1 of SERA.5001 shall apply except that:
 - i. the ceiling shall not be less than 450M (1500FT);
 - ii. the reduced flight visibility provisions specified in Table S5-1(a) and (b) of SERA.5001 shall not apply;
 - iii. in airspace classes B, C, D, E, F and G, at and below 900M (3000FT) AMSL or 300M (1000FT) above terrain, whichever is the higher, the pilot shall maintain continuous sight of the surface; and
- d. except when necessary for take-off or landing, a VFR flight at night shall be flown:
 - i. over high terrain or in mountainous areas, at a level which is at least 600M (2000FT) above the highest obstacle located within 8KM of the estimated position of the aircraft;
 - ii. elsewhere than as specified in i. at a level which is at least 300M (1000FT) above the highest obstacle located within 8KM of the estimated position of the aircraft.

2. Access of VFR flights above flight level 195 or at transonic or supersonic speeds

VFR flights planning to operate at transonic or supersonic speeds or any VFR flights planning to operate between FL195 up to FL285 must obtain prior authorization from Autoridade Nacional de Aviação Civil (ANAC). The authorization request shall be submitted 30 days prior to the date of flight to geral@anac.pt.

3. VFR Routes in Lisboa TMA

General Remarks:

Due to traffic complexity in the area surrounding Lisboa Airport, the vicinity of Cascais Aerodrome and the growth of VFR traffic it is of utmost importance the adjustment of VFR traffic inside Lisboa CTR and TMA.

In this sense, two different route structures were established:

- VFR tunnels for light aircraft and helicopters (described in ENR 3.5 OTHER ROUTES)
- Helicopters VFR routes and Helicopters Lisboa Airport entry/exit points (described in ENR 3.4 HELICOPTER ROUTES and LPPT AD 2)

VFR TUNNELS

For the provision of FIS and in order to avoid overload of Lisboa Approach Radio Frequency, VFR traffic operating on VFR Tunnels, shall:

1. Submit a flight plan (see ENR 1.10).
2. Pilots are requested to fill the flight plan according to the following rules. Within Lisboa APP/TMA airspace VFR traffic shall proceed via published VFR Tunnels, monitor Lisboa APP FREQ 119.105 MHz when entering the Tunnel and contact Cascais TWR FREQ 120.305 MHz when leaving the Tunnel at Bugio, or Lisboa Information FREQ 123.755 MHz when leaving the Tunnel at Carvalhal or Venda Nova Dam.
3. Be equipped and maintain in operation SSR Transponder with mode C.
4. Set always the altimeter with Lisboa updated QNH

HELICOPTERS VFR ROUTES

For the provision of ATS and in order to facilitate the transit of helicopters entering/exiting Lisboa Airport or other heliports within Lisboa CTR, two helicopter routes (Visual Tejo Route "TR" and Visual Salemas Route "SR") are established. helicopters flying on these routes shall:

1. Submit a flight plan (see ENR 1.10).
2. Obtain an ATC clearance.
3. Maintain continuous bi-lateral communications with Lisboa TWR/APP as instructed.
4. Be equipped and maintain in operation SSR transponder with mode C.
5. Set always the altimeter with Lisboa updated QNH.
6. Advise ATC before leaving assigned route or profile and expect delay if that happens.

Helicopters using heliports or other places within Lisboa CTR shall contact Lisboa Tower prior take-off.

4. VFR Tunnels in Porto TMA

General Remarks:

Due to traffic complexity in Porto Airport, the vicinity of Vilar de Luz Aerodrome and the growth of VFR traffic into the North-Northeast area adjacent to Porto CTR and subjacent to Porto TMA, it is of the utmost importance the adjustment of VFR traffic flows in order to avoid the overload of Porto Approach radio frequency.

To accomplish with the stated above, two-way routes named respectively Esposende Tunnel (visual REPs:Zende-Belos), Barcelos Tunnel (visual REPs; Belos-Famal), Rates Tunnel (visual REPs: Zende-Gondi-Famal), Crestuma Tunnel (visual Reps: Famal-Alfen-Crest) and Barca Tunnel (visual REPs: Alfen-Jumbo-Botik) are brought into service with the observation of the following compulsory rules.

For the provision of FIS, VFR traffic operating on:

- a. Esposende Tunnel, Barcelos Tunnel and Crestuma Tunnel shall:
 1. Submit a flight plan (see ENR 1.10).
 2. Report entering and exiting the tunnels and maintain continuous monitoring on Porto Approach frequency.
 3. Be equipped and maintain in operation SSR transponder with mode C.
 4. Set always the altimeter with Porto updated QNH
- b. Rates Tunnel:
 1. Obtain prior permission from Porto ATC to proceed on this route, and
 2. Comply with points 1, 2, 3 and 4 of a. above.
- c. Barca Tunnel (Emergency):
 1. This Tunnel is only available to aircraft under radio communication failure circumstances, and that are unable to divert to any other Aerodrome
- d. Reporting points (REPs) ZENDE, BELOS, FAMAL, ALFEN, and CREST are compulsory REPs for those VFR flights intending to enter or cross Porto CTR.

Routes described in ENR 3.5 OTHER ROUTES

5. VFR TUNNEL IN FARO TMA

General Remarks:

Due to traffic complexity in the area surrounding Faro Airport and the growth of VFR Traffic into the area subjacent to Faro TMA and close to Faro CTR, it is of the utmost importance the adjustment of VFR traffic flows in order to avoid the overload of Faro Approach Radio frequency.

To accomplish with the stated above, the two way tunnels named EAST and WEST defined by visual reference points "Marina de Vilamoura - Almancil - São João da Venda - Pechão - Quelfes - Fuseta" are brought into service with the observation of the following compulsory rules.

For the provision of FIS, VFR traffic operating on:

- a. East - West Tunnel, shall:
 1. Submit a flight plan (see ENR 1.10).
 2. Report entering and exiting the tunnels and maintain continuous monitoring on Faro Approach frequency.
 3. Be equipped and maintain in operation SSR Transponder with Mode C.
 4. Set always the altimeter with Faro updated QNH
- b. For traffic intending to enter or cross Faro CTR (outside of VFR Tunnel) visual reporting points Albufeira, Loulé, S.Brás de Alportel and Tavira are compulsory REP's.
- c. For traffic crossing Faro CTR (outside of VFR Tunnel) visual reporting points Fuseta, Praia de Faro, Almancil and Marina de Vilamoura are compulsory REP's.

Routes described in ENR 3.5 OTHER ROUTES.

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ENR 1.11 ADDRESSING OF FLIGHT PLAN MESSAGES**1.11.1 Addressing of IFR Flight Plans for Lisboa and Santa Maria FIR****General addressing procedures**

Lisboa and Santa Maria FIR are part of the EUROCONTROL IFPS Zone. As published in the Network Operations Handbook/IFPS Users Manual, all flight plans and associated messages of IFR/GAT flights departing, landing or overflying the IFPS Zone must be addressed only to the IFPS, who will process and transmit the messages to the appropriate ATC Units within the IFPS Zone.

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

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

IFPS Addresses

All flight plans and associated messages (DLA, CHG, etc.) must always be addressed to both existing IFPS units. When addressing to the IFPS, users may use AFTN or SITA:

AFS: EUCHZMFP EUCBZMFP

SITA: BRUEP7X PAREP7X

Re-addressing function of the IFPS

Message originators, when sending the flight plan to the IFPS, users should include the address of the ATS Units outside of IFPS (extra addresses), if any, who are concerned with the flight. The extra addresses are to be included in the message text, in the additional address line, which must be inserted after the originator information line and immediately before the line starting with the open bracket "(". The IFPS will transmit the flight plan to the internal addresses as well as the external addresses supplied by the originator.

Special addressing procedures for military flights

All flight plans and associated messages of military flights from, to or overflying Portugal mainland must include LPAMYWYA, LPAMYWYB, LPPTYWYA, LPAMYXYX and LPAMCYX in the additional address line. For military flights within Santa Maria FIR, the address to be included is LPAMYWYA and LPAMCYX.

Flights with destination Military Transit Aerodrome nr. 1 (AT1) located at Lisboa International Airport (LPPT) must also be addressed to LPPTYXYA.

Addressing of VFR flight plans within Lisboa FIR

The flight plan and any other associated messages shall be addressed to LPPPZPX, to the ADEP/ADES TWR if available, and to LPPCFZX, LPAMYWYA, LPAMCYX, LPPTYWYA, LPAMYWYB, LPAMYXYX. These shall also be addressed to LPPTZTZA, if flight route crosses LPPT CTR or if ADEP or ADES is LPPT.

Addressing of VFR flight plans within Santa Maria FIR

The flight plan and any other associated messages shall be addressed to LPPPZPX, LPZZFPLS, LPAMYWYA, LPAMCYX and:

- LPZZFPLM, if departure or destination aerodrome is LPAZ
- LPZZFPLP, if departure or destination aerodrome is LPPD
- LPLAZTZX and LPLAZPX, if departure or destination or alternate aerodrome is LPLA
- LPZZFPLH, if departure or destination aerodrome is LPPI, LPSJ, LPGR or LPHR
- LPZZFPLF, if departure or destination aerodrome is LPFL or LPCR

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Route Designator {RNAV Specification}		[Route Usage Notes]					
Significant Point Name		Significant Point Coordinates			Remarks		
{RNAV Specification}	MAG Bearing ↓ / ↑	Geodesic DIST	Upper limit / Lower limit	Minimum flight altitude	FL series		Controlling unit {Airspace class} Remarks
					↓	↑	
UZ28 (RNAV 5)							
▲ DIRMA		40 51 06N 009 30 03W					
	289 ° 109°	98.1 NM	FL 245 FL 195		Even	Odd	H24 {C}
△ DIDIT		41 19 12N 011 34 18W					
	289 ° 108°	159.5 NM	FL 245 FL 195		Even	Odd	H24 {C}
▲ BANAL		42 00 00N 015 00 00W					

Route Designator {RNAV Specification}		[Route Usage Notes]					
Significant Point Name		Significant Point Coordinates			Remarks		
{RNAV Specification}	MAG Bearing	Geodesic DIST	Upper limit / Lower limit	Minimum flight altitude	FL series		Controlling unit {Airspace class} Remarks
	↓ / ↑				↓	↑	
UZ29 (RNAV 5)							
▲ DIRMA		40 51 06N 009 30 03W					
	300 ° 119°	95.3 NM	FL 245 FL 195		Even	Odd	H24 {C}
△ MIMBO		41 34 15N 011 22 38W					
	299 ° 118°	129.8 NM	FL 245 FL 195		Even	Odd	H24 {C}
▲ ARMED		42 30 00N 014 00 00W					

Route Designator {RNAV Specification}		[Route Usage Notes]					
Significant Point Name		Significant Point Coordinates				Remarks	
{RNAV Specification}	MAG Bearing	Geodesic DIST	Upper limit / Lower limit	Minimum flight altitude	FL series		Controlling unit {Airspace class} Remarks
	↓ / ↑				↓	↑	
UZ218 (RNAV 5)							
▲ BAROK		36 55 00N 010 01 24W					
	° 205°	174.7 NM	FL 245 FL 195			Odd	H24 CDR 1 H24 FL 245 / FL 195 ALTN RTE: on ATC instructions (MAX EXTD 5NM) {C}
△ ATECA		38 39 30N 008 37 21W					
	° 201°	32.4 NM	FL 245 FL 195			Odd	H24 {C}
△ MAGUM		39 10 03N 008 23 33W					
	° 210°	39.1 NM	FL 245 FL 195			Odd	H24 CDR 1 H24 FL 245 / FL 195 ALTN RTE: on ATC instructions (MAX EXTD 4NM) {C}
△ DIGAL		39 44 27N 007 59 23W					
	° 210°	88.3 NM	FL 245 FL 195			Odd	H24 CDR 1 H24 FL 245 / FL 195 ALTN RTE: on ATC instructions (MAX EXTD 4NM) {C}
△ BABEX		41 02 25N 007 05 02W					
	° 209°	44.8 NM	FL 245 FL 195			Odd	H24 CDR 1 H24 FL 245 / FL 195 ALTN RTE: on ATC instructions (MAX EXTD 4NM) {C}
▲ BATAX		41 42 02N 006 37 19W					
	° 209°	5.8 NM	FL 245 FL 195			Odd	H24 CDR 1 H24 FL 245 / FL 195 ALTN RTE: on ATC instructions (MAX EXTD 4NM) {C}
▲ MOSEN		41 47 12N 006 33 39W					

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 (IAD) / 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
FATIMA DVOR/DME (02° W - 2020)	FTM	113.50MHZ CH 82X	H24	DVOR: 393956N 0082934W DME: 393958N 0082936W	700FT	FRA (IAD) / 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

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
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
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

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
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
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

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 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 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS

Lateral limits coordinates	Vertical limits	Advisory measures	Authority responsible for INFO	Remarks Time of ACT
1	2	3	4	5
LISBOA 384634N 0090732W	30000M MSL SFC	Radiosonde/Atmospheric Sounding MAX WID 6.5 M MAX WT 0.3 KG MAX ROC 1000FT/MIN	IPMA - Instituto Português do Mar e da Atmosfera, I.P. Rua C – Aeroporto de Lisboa 1749-077 Lisboa Tel: +351218447082	Daily 11:15; 23:15 EET 180MIN Subject to ATC clearance
FUNCHAL ILHA DA MADEIRA 323851.11N 0165332.93W	30000M MSL SFC	Radiosonde/Atmospheric Sounding MAX WID 6.5 M MAX WT 0.3 KG MAX ROC 1000FT/MIN	IPMA - Instituto Português do Mar e da Atmosfera, I.P. Rua do Lazareto 37-39 Funchal Tel: +351291241592	Daily 11:15 EET 110MIN Subject to ATC clearance
LAJES ILHA TERCEIRA 384604.08N 0270513.92W	30000M MSL SFC	Radiosonde/Atmospheric Sounding MAX WID 6.5 M MAX WT 0.2 KG MAX ROC 1000FT/MIN	IPMA - Instituto Português do Mar e da Atmosfera, I.P. Rua C – Aeroporto de Lisboa 1749-077 Lisboa Tel: +351218447082	Daily 11:15 EET 110MIN Activity as per protocol with Portuguese Air Force.

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

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

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

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

Marking

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

Listing

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

Reporting of temporary failure

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

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 POUCO 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 - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (14/27)	415810N 0083355W	795M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (15/27)	415759N 0083357W	826M / 119M	
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (16/27)	415746N 0083404W	824M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (18/27)	415735N 0083427W	814M / 119M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (19/27)	415744N 0083424W	813M / 119M	
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (20/27)	420023N 0083504W	672M / 131M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (21/27)	420017N 0083457W	682M / 131M	
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (22/27)	420002N 0083450W	637M / 131M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (23/27)	415954N 0083445W	644M / 131M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (24/27)	415857N 0083310W	859M / 131M	By day: Flashing White Lights By night: Fixed Red Light
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (25/27)	415852N 0083257W	836M / 131M	
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (26/27)	415848N 0083246W	839M / 131M	
ALTO MINHO I - PICOTO S. SILVESTRE - VALENCA	AEOLIC PARK (27/27)	415844N 0083232W	838M / 131M	By day: Flashing White Lights By night: Fixed Red Light
ALVAIAZERE	WINDMILL (3/10)	395006N 0082441W	695M / 124M	By day: Flashing White Lights By night: Fixed Red Light
ALVAIAZERE	WINDMILL (4/10)	394955N 0082444W	690M / 124M	
ALVAIAZERE	WINDMILL (5/10)	394948N 0082446W	696M / 124M	
ALVAIAZERE	WINDMILL (6/10)	394941N 0082447W	704M / 124M	By day: Flashing White Lights By night: Fixed Red Light

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

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

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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (9/11)	393533N 0083421W	426M / 126M	By day: Flashing white light By night: Fixed red light
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (10/11)	393606N 0083329W	376M / 126M	By day: Flashing white light By night: Fixed red light
BAIRRO - N. S. MISERICORDIAS - OUREM	AEOLIC PARK (11/11)	393609N 0083318W	376M / 126M	By day: Flashing white light By night: Fixed red light
BAIXO ALENTEJO - MERTOLA	WINDMILL (1/19)	372900N 0074828W	439M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (2/19)	372858N 0074842W	431M / 144M	
BAIXO ALENTEJO - MERTOLA	WINDMILL (3/19)	372853N 0074853W	441M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (4/19)	372910N 0075057W	468M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (5/19)	372919N 0075124W	468M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (6/19)	372907N 0075140W	463M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (7/19)	372858N 0075151W	472M / 144M	
BAIXO ALENTEJO - MERTOLA	WINDMILL (8/19)	372857N 0075203W	478M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (9/19)	372901N 0075225W	472M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (10/19)	372935N 0075125W	464M / 144M	
BAIXO ALENTEJO - MERTOLA	WINDMILL (11/19)	372938N 0075111W	465M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (12/19)	372959N 0075037W	449M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (13/19)	373009N 0075003W	439M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (14/19)	373037N 0075000W	440M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (15/19)	373026N 0074913W	432M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (16/19)	373048N 0074939W	428M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (17/19)	373046N 0075055W	426M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (18/19)	373059N 0075134W	421M / 144M	By day: Flashing white By night: Fixed red
BAIXO ALENTEJO - MERTOLA	WINDMILL (19/19)	373049N 0075145W	409M / 144M	By day: Flashing white By night: Fixed red
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (1/27)	370938N 0084815W	282M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (2/27)	370928N 0084818W	277M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (3/27)	370930N 0084838W	282M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK 4/27)	370923N 0084847W	272M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (5/27)	370920N 0084911W	262M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (6/27)	370917N 0084820W	282M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK 7/27)	370909N 0084827W	272M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (8/27)	370904N 0084837W	272M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (9/27)	370857N 0084846W	267M / 122M	By Day: Flashing white light By Night: Fixed Red Light
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (10/27)	370849N 0084853W	267M / 122M	
BARAO DE SAO JOAO - LAGOS	AEOLIC PARK (11/27)	370846N 0084905W	272M / 122M	By Day: Flashing white light By Night: Fixed Red Light

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

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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
CABECO DE OIRO - TRANCOSO	WINDMILL (3/10)	404816N 0072102W	978M / 131M	
CABECO DE OIRO - TRANCOSO	WINDMILL (4/10)	404825N 0072058W	986M / 131M	By day: Flashing white light By night: Fixed red light
CABECO DE OIRO - TRANCOSO	WINDMILL (5/10)	404835N 0072054W	1003M / 131M	
CABECO DE OIRO - TRANCOSO	WINDMILL (6/10)	404843N 0072056W	1007M / 131M	
CABECO DE OIRO - TRANCOSO	WINDMILL (7/10)	404836N 0072119W	992M / 131M	By day: Flashing white light By night: Fixed red light
CABECO DE OIRO - TRANCOSO	WINDMILL (8/10)	404852N 0072055W	1017M / 131M	By day: Flashing white light By night: Fixed red light
CABECO DE OIRO - TRANCOSO	WINDMILL (9/10)	404857N 0072109W	1020M / 131M	
CABECO DE OIRO - TRANCOSO	WINDMILL (10/10)	404907N 0072057W	1010M / 131M	By day: Flashing white light By night: Fixed red light
CADAFAZ II - GOIS	AEOLIC PARK (1/9)	400709N 0080314W	994M / 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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
CANDAL (COELHO)	AEOLIC PARK (17/20)	405020N 0080831W	1160M / 100M	
CANDAL (COELHO)	AEOLIC PARK (18/20)	405016N 0080824W	1145M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CANDAL (COELHO)	AEOLIC PARK (19/20)	405001N 0080807W	1120M / 100M	
CANDAL (COELHO)	AEOLIC PARK (20/20)	404954N 0080801W	1136M / 100M	By Day: Flashing White Light By Night: Flashing Red Light
CAPUCHA (TORRES VEDRAS)	WINDMILL (1/6)	390338N 0091546W	302M / 121M	Fixed Red Light
CAPUCHA (TORRES VEDRAS)	WINDMILL (2/6)	390339N 0091540W	304M / 121M	Fixed Red Light
CAPUCHA (TORRES VEDRAS)	WINDMILL (3/6)	390338N 0091527W	301M / 121M	
CAPUCHA (TORRES VEDRAS)	WINDMILL (4/6)	390338N 0091518W	291M / 121M	
CAPUCHA (TORRES VEDRAS)	WINDMILL (5/6)	390340N 0091506W	291M / 121M	Fixed Red Light
CAPUCHA (TORRES VEDRAS)	WINDMILL (6/6)	390341N 0091454W	313M / 140M	By Day: Flashing White Light By Night: Flashing Red Light
CARAMULO	WINDMILL (1/4)	403606N 0080945W	1188M / 180M	By Day: flashing white light By Night: fixed red light
CARAMULO	WINDMILL (2/4)	403607N 0081025W	1141M / 180M	By Day: flashing white light By Night: fixed red light
CARAMULO	WINDMILL (3/4)	403551N 0080939W	1143M / 180M	
CARAMULO	WINDMILL (4/4)	403537N 0080946W	1134M / 180M	By Day: flashing white light By Night: fixed red light
CARAMULO - BEZERREIRA	WINDMILL (1/17)	403420N 0081235W	1034M / 101M	By Day: Flashing white light By Night: Fixed red light
CARAMULO - BEZERREIRA	WINDMILL (2/17)	403432N 0081219W	1063M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (3/17)	403438N 0081209W	1094M / 101M	By Day: Flashing white light By Night: Fixed Red light
CARAMULO - BEZERREIRA	WINDMILL (4/17)	403446N 0081156W	1085M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (5/17)	403436N 0081153W	1058M / 101M	By Day: Flashing white light By Night: Fixed Red light
CARAMULO - BEZERREIRA	WINDMILL (6/17)	403444N 0081238W	1000M / 101M	By Day: Flashing white light By Night: Fixed red light
CARAMULO - BEZERREIRA	WINDMILL (7/17)	403449N 0081223W	1015M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (8/17)	403454N 0081154W	1051M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (9/17)	403501N 0081229W	997M / 101M	By Day: Flashing white light By Night: Fixed red light
CARAMULO - BEZERREIRA	WINDMILL (10/17)	403459N 0081210W	1021M / 101M	
CARAMULO - BEZERREIRA	WINDMILL (11/17)	403505N 0081158W	1019M / 101M	By Day: Flashing white light By Night: Fixed red light
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 (1/7)	403633N 0080935W	1063M / 101M	By Day: flashing white light By Night: flashing red light
CARAMULO - CASELHO	WINDMILL (2/7)	403633N 0080909W	1064M / 101M	
CARAMULO - CASELHO	WINDMILL (3/7)	403645N 0080853W	1043M / 101M	By Day: flashing white light By Night: flashing red light
CARAMULO - CASELHO	WINDMILL (4/7)	403717N 0080902W	1037M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - CASELHO	WINDMILL (5/7)	403722N 0080839W	1097M / 101M	
CARAMULO - CASELHO	WINDMILL (6/7)	403730N 0080847W	1080M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - CASELHO	WINDMILL (7/7)	403617N 0080931W	1172M / 180M	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
CARAMULO - FORNEL DO MONTE	WINDMILL (1/17)	403901N 0080653W	1056M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (2/17)	403853N 0080700W	1063M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (3/17)	403848N 0080733W	1101M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (4/17)	403846N 0080705W	1098M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (5/17)	403841N 0080712W	1141M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (6/17)	403841N 0080626W	1026M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (7/17)	403838N 0080740W	1112M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (8/17)	403831N 0080712W	1139M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (9/17)	403829N 0080740W	1128M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (10/17)	403824N 0080703W	1116M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (11/17)	403839N 0080719W	1121M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (12/17)	403824N 0080849W	1061M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (13/17)	403823N 0080732W	1121M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (14/17)	403820N 0080747W	1131M / 101M	
CARAMULO - FORNEL DO MONTE	WINDMILL (15/17)	403815N 0080846W	1101M / 101M	By Day: flashing white light By Night: fixed red light
CARAMULO - FORNEL DO MONTE	WINDMILL (16/17)	403753N 0080910W	1079M / 119M	
CARAMULO - FORNEL DO MONTE	WINDMILL (17/17)	403808N 0080920W	1061M / 119M	By Day: flashing white light By Night: fixed red light
CARAPINHEIRA DO CAMPO	MAST	401201N 0083010W	130M / 120M	Flashing Red Light
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (1/9)	414608N 0084814W	665M / 125M	Fixed Red Light
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (2/9)	414612N 0084825W	652M / 125M	
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (3/9)	414609N 0084835W	646M / 125M	
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (4/9)	414606N 0084847W	647M / 125M	Fixed Red Light
CARRECO OUTEIRO I (VIANA DO CASTELO)	AEOLIC PARK (5/9)	414553N 0084840W	650M / 125M	Fixed red Light
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 S 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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
CATEFICA (TORRES VEDRAS)	AEOLIC PARK (9/9)	390226N 0091324W	380M / 106M	Fixed Red Light
CHAMINE - SINES	AEOLIC PARK (1/3)	375156N 0084513W	259M / 125M	Fixed Red Light
CHAMINE - SINES	AEOLIC PARK (2/3)	375157N 0084504W	267M / 125M	
CHAMINE - SINES	AEOLIC PARK (3/3)	375155N 0084448W	256M / 125M	Fixed Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (1/15)	393702N 0084535W	573M / 125M	Flashing Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (2/15)	393646N 0084545W	591M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (3/15)	393649N 0084533W	609M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (4/15)	393649N 0084522W	608M / 125M	Flashing Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (5/15)	393633N 0084550W	585M / 125M	Flashing Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (6/15)	393628N 0084540W	616M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (7/15)	393634N 0084531W	612M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (8/15)	393634N 0084518W	604M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (9/15)	393608N 0084532W	559M / 125M	Flashing Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (10/15)	393616N 0084525W	585M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (11/15)	393616N 0084513W	603M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (12/15)	393622N 0084505W	588M / 125M	Flashing Red Light
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (13/15)	393628N 0084455W	583M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (14/15)	393634N 0084446W	595M / 125M	
CHAO DE FALCAO (PORTO DE MOS)	AEOLIC PARK (15/15)	393634N 0084449W	604M / 125M	Flashing Red Light
CHAO DE FALCAO II - BATALHA	WINDMILL (1/11)	393714N 0084420W	550M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (2/11)	393701N 0084428W	570M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (3/11)	393712N 0084510W	573M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (4/11)	393719N 0084530W	518M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (5/11)	393737N 0084517W	531M / 125M	By Day: Flashing white light By Night: Flashing red light
CHAO DE FALCAO II - BATALHA	WINDMILL (6/11)	393742N 0084501W	547M / 125M	By Day: Flashing white light By Night: Flashing red light
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (3/11)	400423N 0081129W	1140M / 107M	
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (4/11)	400418N 0081134W	1152M / 107M	
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (5/11)	400412N 0081138W	1173M / 107M	By Day: Flashing White Light By Night: Fixed Red Light
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (6/11)	400409N 0081146W	1164M / 107M	
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (7/11)	400407N 0081155W	1162M / 107M	
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (8/11)	400402N 0081201W	1167M / 107M	
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (9/11)	400356N 0081204W	1166M / 107M	By Day: Flashing White Light By Night: Fixed Red Light
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (10/11)	400505N 0081105W	1230M / 150M	By Day: Flashing White Light By Night: Fixed Red Light
COENTRAL (CASTANHEIRA DE PERA)	AEOLIC PARK (11/11)	400451N 0081117W	1191M / 150M	By Day: Flashing White Light By Night: Fixed Red Light
COIMBRA	MAST	401056N 0082726W	268M / 100M	
CONTIM - MONTALEGRE	AEOLIC PARK (1/5)	414659N 0075244W	1200M / 126M	By day: Flashing white light By night: Fixed Red Light
CONTIM - MONTALEGRE	AEOLIC PARK (2/5)	414649N 0075241W	1226M / 126M	
CONTIM - MONTALEGRE	AEOLIC PARK (3/5)	414642N 0075229W	1261M / 126M	
CONTIM - MONTALEGRE	AEOLIC PARK (4/5)	414636N 0075221W	1272M / 126M	By day: Flashing white light By night: Fixed Red Light
CONTIM - MONTALEGRE	AEOLIC PARK (5/5)	414626N 0075153W	1274M / 126M	By day: Flashing white light By night: Fixed Red Light
CRISTO REI	Monument	384033N 0091017W	224M / 110M	Fixed Red Light
DEGRACIAS - SOURE	WINDMILL (1/10)	400110N 0083144W	544M / 107M	
DEGRACIAS - SOURE	WINDMILL (2/10)	400116N 0083132W	550M / 107M	By Day: Flashing white light By Night: Flashing red light
DEGRACIAS - SOURE	WINDMILL (3/10)	400120N 0083124W	543M / 107M	
DEGRACIAS - SOURE	WINDMILL (4/10)	400126N 0083112W	544M / 107M	By Day: Flashing white light By Night: Flashing red light
DEGRACIAS - SOURE	WINDMILL (5/10)	400122N 0083059W	537M / 107M	
DEGRACIAS - SOURE	WINDMILL (6/10)	400129N 0083037W	562M / 107M	By Day: Flashing white light By Night: Flashing red light
DEGRACIAS - SOURE	WINDMILL (7/10)	400103N 0083147W	523M / 107M	By Day: Flashing white light By Night: Flashing red light
DEGRACIAS - SOURE	WINDMILL (8/10)	400141N 0083024W	619M / 107M	By Day: Flashing white light By Night: Flashing red light
DEGRACIAS - SOURE	WINDMILL (9/10)	400147N 0083004W	635M / 107M	
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (9/18)	414717N 0075059W	1286M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (10/18)	414724N 0075112W	1296M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (11/18)	414743N 0075027W	1290M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (12/18)	414721N 0075008W	1366M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (13/18)	414729N 0075006W	1406M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (14/18)	414737N 0074959W	1346M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (15/18)	414729N 0074938W	1356M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (16/18)	414740N 0074922W	1382M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (17/18)	414734N 0074911W	1364M / 126M	
FACHO-COLMEIA - MONTALEGRE	AEOLIC PARK (18/18)	414724N 0074905W	1316M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (1/22)	412410N 0073935W	1137M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (2/22)	412422N 0073938W	1132M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (3/22)	412437N 0073850W	1203M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (4/22)	412442N 0073902W	1200M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (5/22)	412448N 0073911W	1192M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (6/22)	412441N 0073807W	1222M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (7/22)	412450N 0073800W	1247M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (8/22)	412458N 0073756W	1237M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (9/22)	412506N 0073832W	1223M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (21/22)	412654N 0073803W	1149M / 126M	
FALPERRA - RECHAZINHA - VILA POUCA DE AGUIAR	WINDMILL (22/22)	412706N 0073807W	1153M / 126M	By Day: Flashing White Light By Night: Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (1/11)	385347N 0090912W	397M / 158M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (2/11)	385346N 0090859W	393M / 147M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (3/11)	385342N 0090851W	403M / 140M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (4/11)	385345N 0090840W	395M / 96M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (5/11)	385336N 0090803W	451M / 158M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (6/11)	385327N 0090858W	397M / 140M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (7/11)	385323N 0090842W	404M / 140M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (8/11)	385245N 0090848W	403M / 158M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (9/11)	385249N 0090841W	408M / 158M	Red Stripes in the propeller blades Fixed Red Light
FANHOES (LOURES)	AEOLIC PARK (10/11)	385251N 0090834W	407M / 147M	Red Stripes in the propeller blades Fixed Red Light
FELGAR-BULHEIRAS - MONCORVO	AEOLIC PARK (1/4)	411006N 0065931W	1008M / 118M	Red stripes in propeller blades By Night: Fixed Red Light
FELGAR-BULHEIRAS - MONCORVO	AEOLIC PARK (2/4)	411012N 0065912W	1008M / 118M	
FELGAR-BULHEIRAS - MONCORVO	AEOLIC PARK (3/4)	411018N 0065844W	1008M / 118M	Red stripes in propeller blades By Night: Fixed Red Light
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	AEOLIC PARK (1/5)	410455N 0075228W	1151M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FONTE DA MESA II - LAMEGO	AEOLIC PARK (2/5)	410501N 0075221W	1163M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FONTE DA MESA II - LAMEGO	AEOLIC PARK (3/5)	410532N 0075157W	1165M / 126M	By Day: Flashing white light By Night: Fixed Red Light
FONTE DA MESA II - LAMEGO	AEOLIC PARK (4/5)	410548N 0075149W	1216M / 126M	
FONTE DA MESA II - LAMEGO	AEOLIC PARK (5/5)	410558N 0075143W	1232M / 126M	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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
FONTE DA QUELHA (CINFAES)	AEOLIC PARK (8/9)	410049N 0080555W	1287M / 100M	
FONTE DA QUELHA (CINFAES)	AEOLIC PARK (9/9)	410052N 0080541W	1275M / 100M	Fixed Red Light
GALO-RAINHA	WINDMILL (1/11)	403602N 0071410W	1101M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (2/11)	403615N 0071352W	1111M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (3/11)	403631N 0071349W	1113M / 150M	
GALO-RAINHA	WINDMILL (4/11)	403642N 0071334W	1084M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (5/11)	403653N 0071327W	1075M / 150M	
GALO-RAINHA	WINDMILL (6/11)	403703N 0071332W	1072M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (7/11)	403730N 0071315W	1062M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (8/11)	403741N 0071306W	1077M / 150M	
GALO-RAINHA	WINDMILL (9/11)	403754N 0071302W	1077M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (10/11)	403812N 0071234W	1040M / 150M	By Day: flashing white light By Night: Fixed red light
GALO-RAINHA	WINDMILL (11/11)	403823N 0071229W	1013M / 150M	By Day: flashing white light By Night: Fixed red light
GARDUNHA	WINDMILL (1/62)	400632N 0073804W	969M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (2/62)	400615N 0073828W	979M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (3/62)	400607N 0073839W	1021M / 119M	
GARDUNHA	WINDMILL (4/62)	400600N 0073849W	1063M / 119M	
GARDUNHA	WINDMILL (5/62)	400553N 0073856W	1119M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (6/62)	400558N 0073910W	1081M / 119M	
GARDUNHA	WINDMILL (7/62)	400543N 0073856W	1099M / 119M	
GARDUNHA	WINDMILL (8/62)	400533N 0073901W	1099M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (9/62)	400515N 0073854W	1079M / 119M	
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
GARDUNHA	WINDMILL (26/62)	400523N 0073534W	990M / 119M	
GARDUNHA	WINDMILL (27/62)	400528N 0073526W	979M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (28/62)	400425N 0073912W	949M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (29/62)	400421N 0073921W	951M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (30/62)	400409N 0073955W	1009M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (31/62)	400406N 0074004W	1007M / 119M	
GARDUNHA	WINDMILL (32/62)	400359N 0074008W	1009M / 119M	
GARDUNHA	WINDMILL (33/62)	400344N 0074014W	1004M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (34/62)	400337N 0074021W	1023M / 119M	
GARDUNHA	WINDMILL (35/62)	400329N 0074026W	1029M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (36/62)	400322N 0074030W	1029M / 119M	
GARDUNHA	WINDMILL (37/62)	400311N 0074046W	1029M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (38/62)	400304N 0074050W	1059M / 119M	
GARDUNHA	WINDMILL (39/62)	400254N 0074057W	1059M / 119M	By day: Flashing White lights By night: Fixed Red lights
GARDUNHA	WINDMILL (40/62)	400247N 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

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

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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
LOURINHA I - LOURINHA	WINDMILL (1/9)	391657N 0091643W	256M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (2/9)	391706N 0091604W	261M / 126M	
LOURINHA I - LOURINHA	WINDMILL (3/9)	391709N 0091621W	260M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (4/9)	391832N 0091529W	266M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (5/9)	391747N 0091557W	266M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (6/9)	391759N 0091638W	256M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (7/9)	391819N 0091633W	256M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (8/9)	391812N 0091553W	257M / 126M	By Day: Flashing white light By Night: Fixed red light
LOURINHA I - LOURINHA	WINDMILL (9/9)	391756N 0091520W	266M / 126M	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
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

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

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

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

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

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 (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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
NAVE - VILA NOVA DE PAIVA - MOIMENTA DA BEIRA	AEOLIC PARK (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
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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
OUTEIRO (VILA REAL-MONDIM DE BASTO)	AEOLIC PARK (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
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

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

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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
PINHAL INTERIOR - PROENÇA	WINDMILL (19/24)	394712N 0075459W	879M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - PROENÇA	WINDMILL (20/24)	394710N 0075431W	889M / 119M	
PINHAL INTERIOR - PROENÇA	WINDMILL (21/24)	394726N 0075354W	915M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - PROENÇA	WINDMILL (22/24)	394703N 0075514W	915M / 180M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - PROENÇA	WINDMILL (23/24)	394712N 0075445W	935M / 180M	
PINHAL INTERIOR - PROENÇA	WINDMILL (24/24)	394718N 0075415W	935M / 180M	
PINHAL INTERIOR - RENDEIRO	WINDMILL (1/2)	395047N 0075819W	969M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR - RENDEIRO	WINDMILL (2/2)	395100N 0075753W	1001M / 119M	By day: Flashing White lights By night: Fixed Red lights
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (1/6)	395232N 0075508W	1036M / 101M	By day: Flashing white light By night: Flashing Red Light
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (2/6)	395235N 0075459W	1041M / 101M	
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (3/6)	395238N 0075451W	1053M / 101M	
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (4/6)	395239N 0075440W	1081M / 101M	By day: Flashing white light By night: Flashing Red Light
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (5/6)	395233N 0075430W	1093M / 101M	
PINHAL INTERIOR-SELADOLINHO (OLEIROS)	AEOLIC PARK (6/6)	395229N 0075421W	1074 / 101M	By day: Flashing white light By night: Flashing Red Light
PO - PO / REGUENGO GRANDE - BOMBARRAL / LOURINHA	AEOLIC PARK (7/7)	391810N 0091212W	253M / 112M	By day: Flashing white By night: Fixed red
PORTO ALTO	MAST	385441N 0085153W	135M / 125M	Fixed Red Light
POUSAFOLES - SABUGAL	WINDMILL (1/14)	402148N 0071328W	885M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLES - SABUGAL	WINDMILL (2/14)	402147N 0071316W	894M / 126M	
POUSAFOLES - SABUGAL	WINDMILL (3/14)	402144N 0071305W	871M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLES - SABUGAL	WINDMILL (4/14)	402204N 0071249W	871M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLES - SABUGAL	WINDMILL (5/14)	402352N 0071146W	1017M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLES - SABUGAL	WINDMILL (6/14)	402357N 0071152W	1021M / 126M	
POUSAFOLES - SABUGAL	WINDMILL (7/14)	402403N 0071203W	1014M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLES - SABUGAL	WINDMILL (8/14)	402412N 0071201W	1014M / 126M	
POUSAFOLES - SABUGAL	WINDMILL (9/14)	402410N 0071134W	1004M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLES - SABUGAL	WINDMILL (10/14)	402421N 0071218W	1026M / 126M	By day: Flashing White lights By night: Fixed Red lights
POUSAFOLES - SABUGAL	WINDMILL (11/14)	402349N 0071056W	1008M / 126M	By Day: flashing white light By Night: Fixed red light
POUSAFOLES - SABUGAL	WINDMILL (12/14)	402357N 0071025W	990M / 126M	By Day: flashing white light By Night: Fixed red light
POUSAFOLES - SABUGAL	WINDMILL (13/14)	402405N 0071040W	991M / 126M	
POUSAFOLES - 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

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

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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
SAO MAMEDE (MAFRA)	AEOLIC PARK (2/3)	385827N 0091343W	369M / 125M	
SAO MAMEDE (MAFRA)	AEOLIC PARK (3/3)	385819N 0091339W	388M / 125M	Fixed Red Light
SAO PAIO - VILA NOVA DE CERVEIRA	WINDMILL (6/6)	415520N 0084240W	760M / 139M	By Day: Flashing white light By Night: fixed red light
SAO PEDRO (TENDAIS)	AEOLIC PARK (1/5)	410001N 0080526W	1236M / 100M	Flashing Red Light
SAO PEDRO (TENDAIS)	AEOLIC PARK (2/5)	405950N 0080529W	1262M / 100M	
SAO PEDRO (TENDAIS)	AEOLIC PARK (3/5)	405942N 0080529W	1264M / 100M	Flashing Red Light

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SAO PEDRO (TENDAIS)	AEOLIC PARK (4/5)	405933N 0080525W	1236M / 100M	
SAO PEDRO (TENDAIS)	AEOLIC PARK (5/5)	405928N 0080517W	1266M / 100M	Flashing Red Light
SARDINHA - LOURES - SINTRA	WINDMILL (1/13)	385122N 0091444W	430M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (2/13)	385128N 0091435W	435M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (3/13)	385136N 0091428W	403M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (4/13)	385141N 0091418W	398M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (5/13)	385147N 0091408W	415M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (6/13)	385216N 0091313W	395M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (7/13)	385228N 0091331W	398M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (8/13)	385247N 0091333W	430M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (9/13)	385249N 0091323W	439M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (10/13)	385249N 0091304W	405M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (11/13)	385259N 0091244W	388M / 125M	
SARDINHA - LOURES - SINTRA	WINDMILL (12/13)	385301N 0091235W	387M / 125M	By Day: Flashing white light By Night: fixed red light
SARDINHA - LOURES - SINTRA	WINDMILL (13/13)	385313N 0091250W	391M / 125M	By Day: Flashing white light By Night: fixed red light
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (1/8)	393812N 0090413W	184M / 119M	Flashing Red Light
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (2/8)	393758N 0090418W	177M / 119M	
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (3/8)	393749N 0090423W	176M / 119M	
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (4/8)	393737N 0090431W	178M / 119M	Flashing Red Light
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (5/8)	393723N 0090431W	182M / 119M	
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (6/8)	393727N 0090428W	191M / 119M	Flashing Red Light
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (7/8)	393801N 0090356W	194M / 119M	
SENHORA DA VITORIA (NAZARE)	AEOLIC PARK (8/8)	393749N 0090400W	191M / 119M	Flashing Red Light
SENHORA DAS NECESSIDADES - ARGANIL / OLIVEIRA DO HOSPITAL	WINDMILL (1/4)	401449N 0074957W	1168M / 126M	By day: Flashing White lights By night: Fixed Red lights
SENHORA DAS NECESSIDADES - ARGANIL / OLIVEIRA DO HOSPITAL	WINDMILL (2/4)	401458N 0075000W	1186M / 126M	By day: Flashing White lights By night: Fixed Red lights
SENHORA DAS NECESSIDADES - ARGANIL / OLIVEIRA DO HOSPITAL	WINDMILL (3/4)	401537N 0074928W	1248M / 126M	By day: Flashing White lights By night: Fixed Red lights
SENHORA DAS NECESSIDADES - ARGANIL / OLIVEIRA DO HOSPITAL	WINDMILL (4/4)	401549N 0074932W	1310M / 126M	By day: Flashing White lights By night: Fixed Red lights
SENHORA DO CASTELO II (CINFAES)	AEOLIC PARK (1/2)	410149N 0080918W	1114M / 100M	Fixed Red Light
SENHORA DO CASTELO II (CINFAES)	AEOLIC PARK (2/2)	410155N 0080913W	1124M / 100M	Fixed Red Light
SENHORA DO SOCORRO - TORRES VEDRAS	AEOLIC PARK (1/4)	390114N 0091225W	454M / 121M	By Day: Flashing white light By Night: flashing red light
SENHORA DO SOCORRO - TORRES VEDRAS	AEOLIC PARK (2/4)	390119N 0091219W	431M / 121M	
SENHORA DO SOCORRO - TORRES VEDRAS	AEOLIC PARK (3/4)	390122N 0091213W	427M / 121M	By Day: Flashing white light By Night: flashing red light
SENHORA DO SOCORRO - TORRES VEDRAS	AEOLIC PARK (4/4)	390119N 0091244W	386M / 119M	By Day: Flashing white light By Night: flashing red light
SERAMENA / SANTO QUINTINO / SOBRAL MONTE AGRACO	AEOLIC PARK	390001N 0090825W	434M / 120M	By Day: Flashing white light By Night: Fixed red light
SERNANCELHE	WINDMILL (1/19)	405234N 0072925W	1047M / 150M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (2/19)	405226N 0072916W	1044M / 150M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (3/19)	405223N 0072820W	1070M / 150M	By day: Flashing White lights By night: Fixed Red lights
SERNANCELHE	WINDMILL (4/19)	405219N 0072806W	1083M / 150M	

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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SERRA DA CABREIRA	AEOLIC PARK (10/10)	413807N 0080247W	1203M / 100M	Flashing Red Light
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (1/16)	405313N 0081348W	1125M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (2/16)	405307N 0081357W	1165M / 125M	
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (3/16)	405304N 0081509W	1211M / 125M	
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (4/16)	405304N 0081546W	1212M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (5/16)	405303N 0081534W	1210M / 125M	
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (6/16)	405303N 0081523W	1216M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (7/16)	405300N 0081557W	1199M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (8/16)	405255N 0081427W	1155M / 125M	
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (9/16)	405253N 0081438W	1117M / 125M	
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (10/16)	405250N 0081505W	1206M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (11/16)	405236N 0081500W	1198M / 125M	
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (12/16)	405231N 0081450W	1195M / 125M	
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (13/16)	405231N 0081437W	1199M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (14/16)	405227N 0081426W	1195M / 125M	Flashing Red Light
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (15/16)	405225N 0081401W	1190M / 125M	
SERRA DA FREITA (AROUCÁ)	AEOLIC PARK (16/16)	405224N 0081414W	1125M / 125M	Flashing 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	
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

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

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
SERRA DO ALVAO - RIBEIRA DE PENA / VILA REAL	WINDMILL (21/21)	412712N 0074454W	1219M / 110M	
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (1/6)	412850N 0074643W	1164M / 100M	Fixed Red Lights
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (2/6)	412842N 0074640W	1193M / 100M	
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (3/6)	412833N 0074631W	1234M / 100M	
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (4/6)	412827N 0074621W	1234M / 100M	Fixed Red Lights
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (5/6)	412818N 0074611W	1217M / 100M	
SERRA DO ALVAO - VILA POUCA DE AGUIAR	AEOLIC PARK (6/6)	412812N 0074607W	1225M / 100M	Fixed Red Lights
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (1/9)	414121N 0075239W	1317M / 107M	fixed Red Light
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (2/9)	414111N 0075242W	1297M / 107M	
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (3/9)	414058N 0075236W	1292M / 107M	
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (4/9)	414048N 0075237W	1297M / 107M	Fixed Red Light
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (5/9)	414111N 0075208W	1337M / 107M	
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (6/9)	414159N 0075206W	1345M / 107M	Flashing Red Light
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (7/9)	414047N 0075148W	1286M / 107M	
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (8/9)	414157N 0075140W	1306M / 107M	Fixed Red Light
SERRA DO BARROSO (BOTICAS)	AEOLIC PARK (9/9)	414145N 0075120W	1357M / 107M	Fixed Red Light
SERRA DO BARROSO II - BOTICAS	WINDMILL (1/6)	414135N 0075057W	1389M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
SERRA DO BARROSO II - BOTICAS	WINDMILL (2/6)	414127N 0075056W	1353M / 126M	
SERRA DO BARROSO II - BOTICAS	WINDMILL (3/6)	414146N 0075032W	1382M / 126M	
SERRA DO BARROSO II - BOTICAS	WINDMILL (4/6)	414140N 0075027W	1342M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
SERRA DO BARROSO II - BOTICAS	WINDMILL (5/6)	414155N 0075024W	1349M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
SERRA DO BARROSO II - BOTICAS	WINDMILL (6/6)	414210N 0075009W	1173M / 126M	By day: Flashing White Lights By night: Fixed Red Lights
SERRA DO BARROSO III - BOTICAS	WINDMILL (1/11)	414037N 0075104W	1275M / 126M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (2/11)	414047N 0075059W	1301M / 126M	
SERRA DO BARROSO III - BOTICAS	WINDMILL (3/11)	414057N 0075042W	1331M / 126M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (4/11)	414059N 0075102W	1326M / 126M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (5/11)	414106N 0075107W	1336M / 126M	
SERRA DO BARROSO III - BOTICAS	WINDMILL (6/11)	414115N 0075108W	1336M / 126M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (7/11)	414112N 0075019W	1279M / 126M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (8/11)	414121N 0075036W	1309M / 126M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (9/11)	414142N 0075102W	1381M / 131M	By day: Flashing white light By night: Fixed red light
SERRA DO BARROSO III - BOTICAS	WINDMILL (10/11)	414153N 0075045W	1351M / 131M	
SERRA DO BARROSO III - BOTICAS	WINDMILL (11/11)	414155N 0075120W	1351M / 131M	By day: Flashing white light By night: Fixed red light
SERRA DO CABECO DA RAINHA (OLEIROS)	AEOLIC PARK (18/20)	395118N 0075449W	1130M / 100M	
SERRA DO CABECO DA RAINHA (OLEIROS)	AEOLIC PARK (19/20)	395122N 0075441W	1120M / 100M	
SERRA DO LEIRANCO - BOTICAS - MONTALEGRE	WINDMILL (1/14)	414516N 0073825W	1138M / 131M	By Day: Flashing white light By Night: Fixed red light

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

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

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

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 (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
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	

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 (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
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	

Designation	Type of obstacle	Coordinates	ELEV/ HGT GND	OBST LGT Type/Colour
1	2	3	4	5
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
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (1/34)	401004N 0075108W	1056M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (2/34)	401008N 0075057W	1037M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (3/34)	401015N 0074941W	1248M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (4/34)	401000N 0074939W	1251M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (5/34)	400952N 0074937W	1255M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (6/34)	400944N 0074942W	1244M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (7/34)	400936N 0074945W	1249M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (8/34)	400929N 0074949W	1228M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (9/34)	400926N 0075001W	1150M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (10/34)	400917N 0075020W	1125M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (11/34)	400912N 0075029W	1127M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (12/34)	400903N 0075036W	1186M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (13/34)	400855N 0075039W	1232M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (14/34)	400853N 0075054W	1130M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (15/34)	400639N 0075704W	1129M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (16/34)	400626N 0075708W	1166M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (17/34)	400613N 0075726W	1129M / 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
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (18/34)	400530N 0075722W	1070M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (19/34)	400524N 0075711W	1085M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (20/34)	400511N 0075723W	1043M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (21/34)	400501N 0075725W	1027M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (22/34)	400519N 0075659W	1045M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (23/34)	400524N 0075643W	995M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (24/34)	400528N 0075633W	1015M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (25/34)	400523N 0075621W	965M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (26/34)	400519N 0075610W	925M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (27/34)	401235N 0075305W	1245M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (28/34)	401232N 0075316W	1229M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (29/34)	401226N 0075327W	1238M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (30/34)	401218N 0075332W	1266M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (31/34)	401209N 0075336W	1277M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (32/34)	401205N 0075347W	1265M / 125M	
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (33/34)	401157N 0075352W	1227M / 125M	By Day: White flashing light By Night: Fixed red light
TOUTICO (ARGANIL - GOIS - PAMPILHOSA DA SERRA)	AEOLIC PARK (34/34)	401142N 0075400W	1191M / 125M	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
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

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

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

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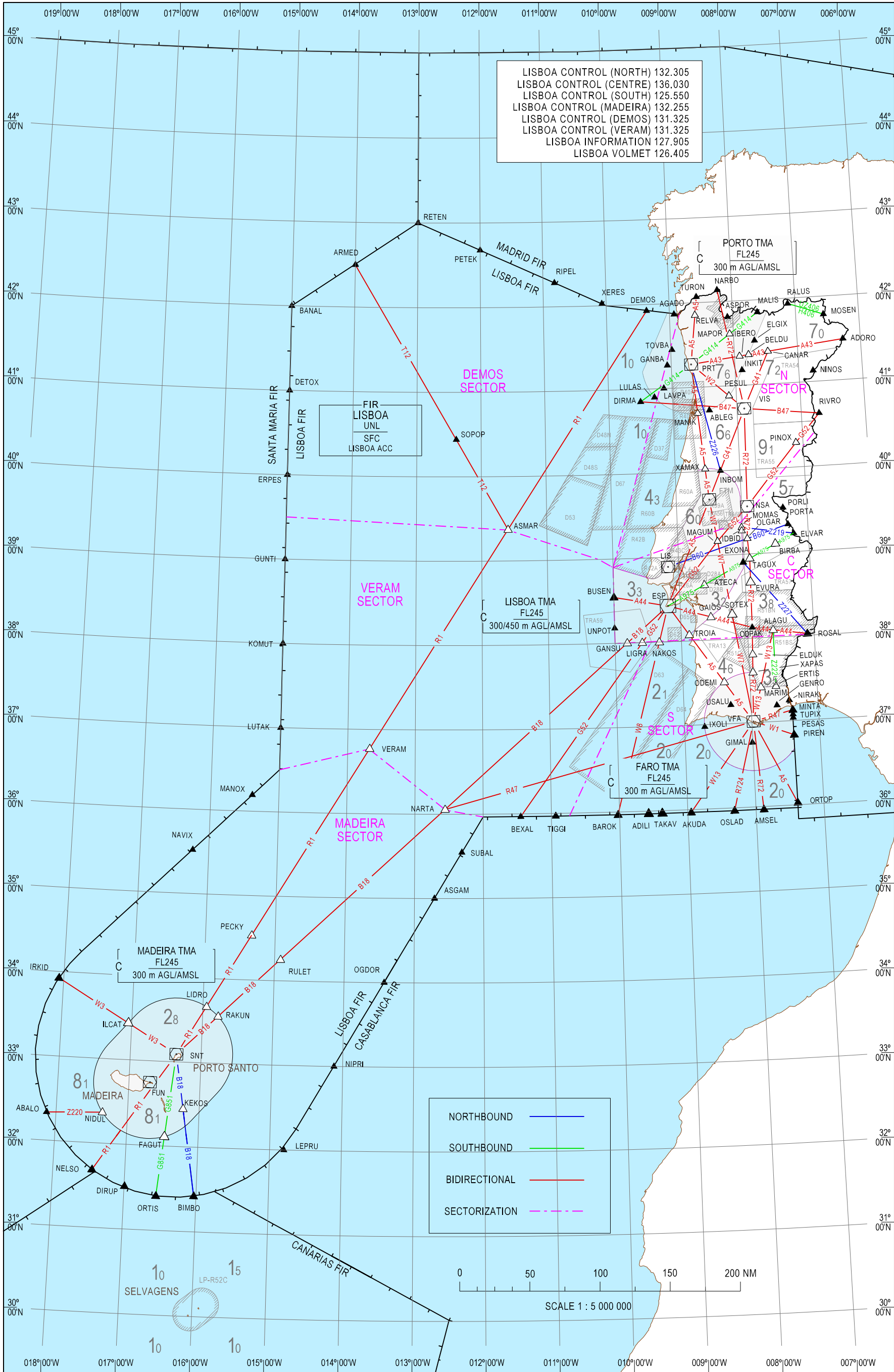
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AIR TRAFFIC SERVICE SYSTEM

ENROUTE CHART - ICAO

LPPC LOWER AIRSPACE BELOW FL195

LPPC



A975, UZ406, H406 IDENT correction.

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LPPC

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AD 1.5 STATUS OF CERTIFICATION OF AERODROMES

Aerodrome Name	Location Indicator	Date of Certification	Validity of Certification	Remarks
Beja	LPBJ	02 AUG 2010	Unlimited	In accordance with national regulation.
Cascais	LPSC	31 OCT 2017	31 OCT 2024	In accordance with national regulation.
Corvo	LPCR	25 NOV 2019	30 JUN 2027	In accordance with national regulation.
Évora	LPEV	27 DEC 2019	06 DEC 2024	In accordance with national regulation.
Faro	LPFR	28 DEC 2017	Unlimited	In accordance with Regulation (EU) 139/2014.
Flores	LPFL	28 DEC 2017	Unlimited	In accordance with Regulation (EU) 139/2014.
Graciosa	LPGR	28 DEC 2017	Unlimited	In accordance with Regulation (EU) 139/2014.
Horta	LPHR	28 DEC 2017	Unlimited	In accordance with Regulation (EU) 139/2014.
Lajes	LPLA	23 JUL 2018	Unlimited	In accordance with national regulation.
Lisboa	LPPT	28 DEC 2017	Unlimited	In accordance with Regulation (EU) 139/2014.
Madeira	LPMA	28 DEC 2017	Unlimited	In accordance with Regulation (EU) 139/2014.
Pico	LPPI	28 DEC 2017	Unlimited	In accordance with Regulation (EU) 139/2014.
Ponta Delgada	LPPD	28 DEC 2017	Unlimited	In accordance with Regulation (EU) 139/2014.
Ponte de Sor	LPSC	29 MAY 2019	29 MAY 2024	In accordance with national regulation.
Porto	LPPR	28 DEC 2017	Unlimited	In accordance with Regulation (EU) 139/2014.
Porto Santo	LPPS	28 DEC 2017	Unlimited	In accordance with Regulation (EU) 139/2014.
Santa Maria	LPAZ	28 DEC 2017	Unlimited	In accordance with Regulation (EU) 139/2014.
Vila Real	LPVR	31 DEC 2023	31 DEC 2028	In accordance with national regulation.

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Type Category (MAG Variation) (VOR Declination)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
DVOR/DME (02° W - 2020)	FTM	113.500MHZ CH82X	H24	393956.5N 0082933.5W	700FT	Coverage: 60NM FL500 Not usable: 210°/230° BYD 35NM BLW 4000FT BYD 40NM BLW 5000FT BYD 47NM BLW 6000FT RDL 173 BYD 65NM at or BLW 9500FT

LPCS AD 2.20 LOCAL TRAFFIC REGULATIONS

Local Flying restrictions

Night operation

Training and instruction flights: Monday to Friday, except holidays.

Requests till 2 hours before SS. Maximum duration of 2 hours after sunset. A maximum of 4 aircrafts simultaneously is allowed within aerodrome traffic circuit.

Ultralight Flights

Ultralight Flights are permitted at CASCAIS Aerodrome.

Push-Back, engine start-up and taxi procedures

Traffic for push-back, start-up and taxi must contact Cascais Ground on frequency 121.830 MHZ. All traffic must monitor Cascais Ground immediately after vacating RWY.

When requesting start-up report APRON.

On apron D, the use of minimum thrust is required when entering or exiting the parking platform to avoid jet blast damage and injuries.

After vacating the RWY all traffic must monitor Cascais Ground frequency 121.830 MHZ, do not stop taxi unless ATC instructed. Perform after landing check list inside the APRON.

VFR Flights

Due to high demand, traffic patterns for training and instruction flights only available if traffic permits.

Unless otherwise instructed by ATC, VFR departing traffic should fly upwind until SIERRA point (RWY17) or NOVEMBER point (RWY35) before turning to downwind or leaving traffic pattern.

LPCS AD 2.21 NOISE ABATEMENT PROCEDURES

1. See AD 1.1.6.1 [Noise Abatement Procedures](#)

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

Engine tests:

Are only allowed between 08:00-SS (07:00-SS) except medical emergency, humanitarian purpose and urgent position flights, whenever necessary to ensure operational readiness, in the following areas:

- Aircraft - On TWY W and Taxilane M subject to availability and Apron B (for A/C below 2 tons).

LPCS AD 2.22 FLIGHT PROCEDURES

1. DEPARTURES ON RUNWAY 35

All departures on RWY 35 are visual departures and shall be made with visual reference with the terrain due to:

- a. Obstacle referred in LPCS AD 2.10 Aerodrome Obstacles;
- b. Sintra mountainous area; and
- c. Restricted area LPR42A.

All departures RWY35 shall maintain south of Sintra mountainous area and the restricted area LPR42A.

2. STANDARD INSTRUMENT DEPARTURE (SID) FROM CASCAIS AERODROME

RUNWAY 17/35

GENERAL REMARKS:

The Instrument departures RWY 35 begin after intercepting the outbound DVOR CAS radial.

SPEED ADJUSTMENT

See ENR 1.5.4

RADIO COMMUNICATIONS FAILURE:

In the event of RCF Squawk A 7600:

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 35NM DME CAS DVOR/DME;
2. Thereafter adjust level and speed in accordance with the filed Flight Plan;
3. If being Radar Vektored or proceeding offset, when passing 35NM DME CAS DVOR/DME, rejoin the current Flight Plan route and proceed in accordance with § 2 above;
4. If cleared direct to..., fly at/to the assigned and acknowledged level or to A3000FT, whichever is higher, until passing 35NM DME CAS DVOR/DME, maintain the current Flight Plan route and proceed in accordance with § 2 above.

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

3. STANDARD INSTRUMENT ARRIVAL (STAR) TO CASCAIS AERODROME

RUNWAY 35

GENERAL REMARKS

NIL

SPEED ADJUSTMENT

See ENR 1.5.4

RADIO COMMUNICATION FAILURE

In the event of RCF squawk A7600, fly at/to the last assigned level to 7 DME CAS DVOR/DME Holding Pattern according CPL or EAT (when received and acknowledged) start descent to initial approach altitude to carry out a standard IFR approach according to IAC.

STANDARD INSTRUMENT ARRIVAL (STAR) DESCRIPTION: See back of chart LPCS AD 2.24.10-1

4. VISUAL APPROACH PROCEDURES

RCF inside Cascais CTR for VFR traffic only.

Radio Communications Failure: in the event of RCF squawk A7600. Proceed to Charlie point if flying East of RWY extended centreline or to Bravo point if flying West of RWY extended centreline, to hold visual at 1500FT and squawk IDENT when established in holding. After 3 minutes holding, proceed to the field at 1500FT to observe wind direction indicator and once determined the suitable landing direction, join left base leg RWY35 or left base leg RWY17 for a full stop landing. Watch and acknowledge TWR visual light signals.

5. 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
1	2	3	4	5	6
EKMAR EKMAR 383327N0093117W RDL222-DME26 LIS DVOR/DME	042	LEFT	230	3000 FT ALT FL 140	5 NM
EKMAR EKMAR 383327N0093117W RDL222-DME26 LIS DVOR/DME	042	LEFT	230	FL 150 FL 200	8 NM
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030	RIGHT	200	3000 FT ALT FL 080	1 MIN
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030	RIGHT	230	FL 090 FL 140	1 MIN
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030	RIGHT	280	FL 150 FL 999	1.5 MIN

LPCS AD 2.23 ADDITIONAL INFORMATION

1. Bird hazard warning

Possible bird concentration on the vicinity of the Aerodrome.

2. Handling services

Handling is mandatory for non-based aircraft and operators, as well as for operators without an established account with the airport administrative services. Handling service must be arranged from one of the authorized agents mentioned on the list below:

Omni Handling

URL: www.omnihandling.com/

Email: cascais@omnihandling.com

Phone: +351 919897608

Safeport

URL: www.safeport.aero

Email: cascais@safeport.aero

Phone: +351 210040425

Phone: +351 910285358

Sevenair

URL: <https://sevenair.com>

Email:info@sevenair.com

Phone:+351 214444545

SkyValet

URL:www.skyvalet.com

Email:lpcs.fbo@skyvalet.pt

Phone:+351 211328947

Phone:+351 910996318

Wexjet Aviation

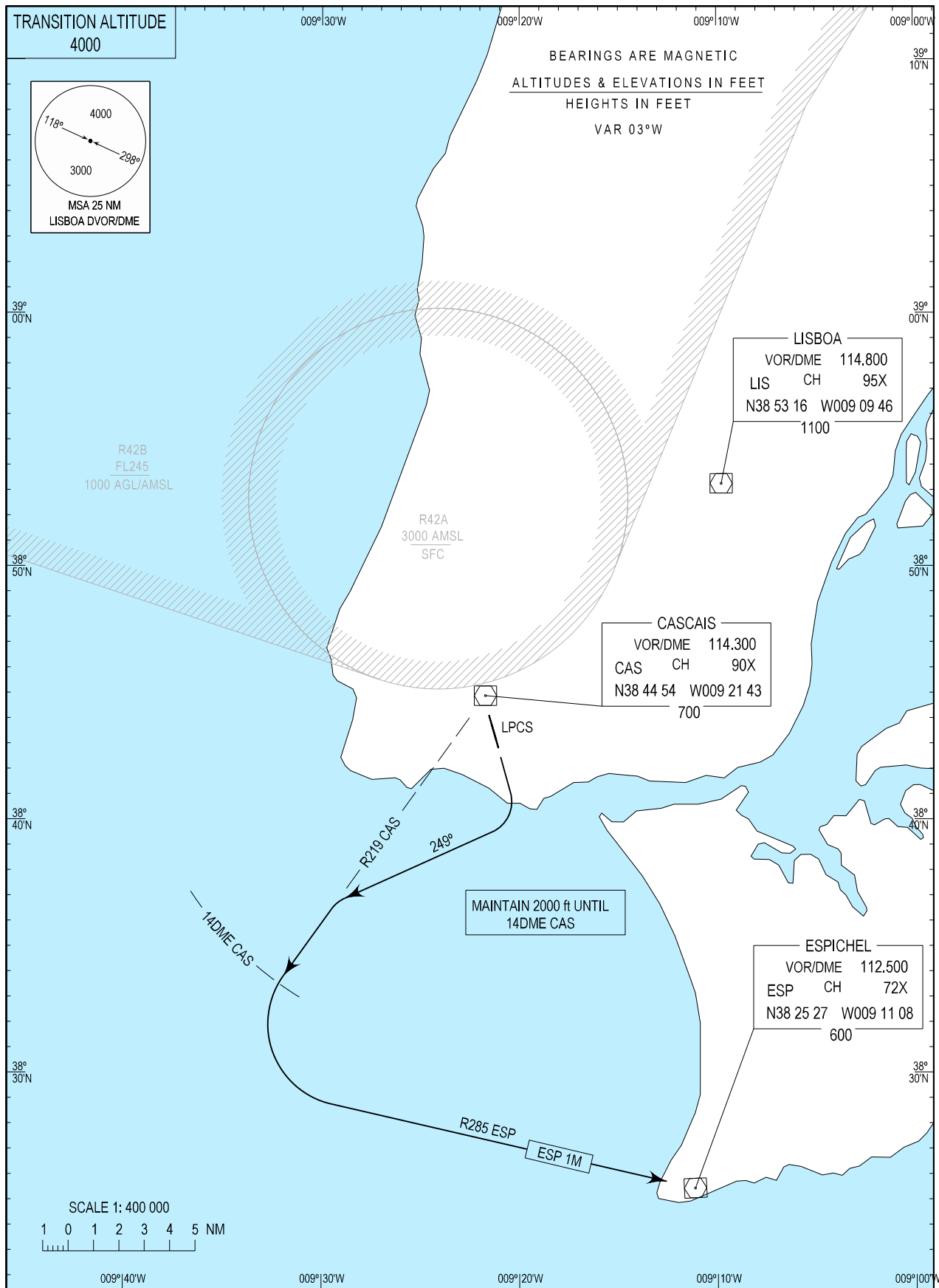
URL:www.wexjet.com

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 ARRIVAL INSTRUMENT (STAR) - 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

STANDARD DEPARTURE CHART -
INSTRUMENT (SID) - ICAOCASCAIS TOWER 120.305
LISBOA APPROACH 119.105CASCAIS (LPCS)
RWY 17
ESP 1M

CASCAIS SID ESP 1M (RWY17)				
DESIGNATOR	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
ESP1M	Climb straight-ahead. When passing 4DME CAS or 800 ft ALT, whichever is earlier, turn right heading 249 degrees to intercept and proceed on RDL219 CAS DVOR/DME. Maintain 2000 ft until 14DME CAS DVOR/DME. At 14DME CAS DVOR/DME turn left to intercept RDL285 ESP DVOR/DME climbing to 3000 ft inbound ESP DVOR/DME.	3000 ft ALT	-	Maintain 2000 ft until 14DME CAS DVOR/DME.

LPHR AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	HORTA CTR 383600N 0285551W - 383612N 0284306W - 383834N 0283230W - 383004N 0283106W - 382611N 0284252W - 382559N 0285535W - 383600N 0285551W
2	Vertical limits	SFC / 2000FT ALT (600M)
3	Airspace classification	C
4	ATS unit call sign / Language(s)	Horta Approach, Horta Tower EN, PT
5	Transition altitude	5000FT
6	Remarks	NIL

LPHR AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
APP	HORTA Approach	120.600MHZ	HO	Primary
		121.500 MHZ	HO	Emergency
TWR	HORTA Tower	118.000 MHZ	HO	Primary
		121.500 MHZ	HO	Emergency

LPHR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type Category (Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB (09°W-2020)	FIL	380KHZ	H24	383121.0N 0284109.2W		Coverage: 250NM
L (09°W-2020)	HT	360KHZ	H24	383111.5N 0283746.2W		Coverage: 25NM
DVORTAC (09°W-2020)	VFL	112.700MHZ TACAN: CH74X	H24	383109.9N 0283724.8W	500FT	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

Type Category (Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DVOR (12°W-2020)	FRS	113.300MHZ	H24	392712.9N 0311237.5W		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
DME	FRS	CH80X	H24	392712.9N 0311237.6W	2800FT	Coverage: 250NM FL300 Not usable: 325°/345° BLW 16000FT BYD 40NM
VOR	LM	112.300MHZ	H24	384702.1N 0270615.8W		Coverage: 100NM Not usable: R215/R275 BYD 15NM Maintenance: WED 08:00/12:00
DVOR/DME (07°W-2020)	VSM	112.000MHZ CH 57X	H24	365746.5N 0250959.0W	300FT	Coverage: 200NM FL500 Do not usable: 065°/130° BYD 20NM BLW 6000FT
DVOR/DME (06°W-2020)	VMG	111.200MHZ CH 49X	H24	DVOR 375045.6N 0254529.3W DME 375045.3N 0254528.7W	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.

LPHR AD 2.20 LOCAL AERODROME REGULATIONS

1. Local flying restrictions

- Ground rises rapidly very close to the aerodrome. (This fact may generate windshear and / or turbulence).
- Due to high terrain flight is not permitted North of Runway 10/28.
- On the EAST Sector of the Aerodrome, a very high mountain (on Pico Island) with it's highest point at 2351 metres and 23 KM ESE of the Aerodrome, is the main restriction for the IFR Procedures in the region. This geographical environment imposes the need to strictly comply with published procedures for arrival, approach and departure.
- Aircraft without two way radio communications are not accepted.
- Aerodrome qualified for night operations.
- Aerodrome and obstructions lighted.
- Danger of collision with birds during taxiing, landing and take-off.
- Back-track operations forbidden on Runway 10/28. These operations must be done only on turning bay of each runway.

Phase	RWY	Procedure IDENT	Segment	Procedure Bank Angle
INITIAL	28	HR550	HR548 HR546	25.0°
INITIAL	28	HR560	HR558 HR556	21.8°
INITIAL	28	HR560	HR554 HR546	25.0°
INTERMEDIATE	28	HR540	HR536 HR508	22.9°
INTERMEDIATE	28	HR512	HR510 HR508	20.3°
INTERMEDIATE	28	HR550 HR560	HR546 HR508	23.2°

b) VSS (Visual Segment Surface) Penetrations

Referring to Document 8168 – OPS/611 – Procedures for Air Navigation Services – Aircraft Operations – Volume

II (Seventh Edition): Surveyed obstacles (man-made obstacles or natural obstacles) penetrate the VSS of both runways:

RWY 10

Type	Coordinates	Top Altitude	Amount of Penetration	RNP Value
Light	383116.07N 0284356.658W	47.26 M 155 FT	3.28 M	All values
Light	383116.842N 0284359.015W	51.05 M 167.5 FT	5.20 M	All values
Post	383114.495N 0284335.166W	33.69 M 110.5 FT	6.79 M*	All values
Power Pole	383115.195N 0284335.103W	38.83 M 127.4 FT	11.99 M*	All values
Cliff	383122.881N 0284502.927W	137.79 M 452.1 FT	41.16 M	All values
Light	383123.748N 0284502.862W	145.37 M 476.9 FT	48.80 M	0.3 0.2

*Obstacles with a height less than 15m above THR10 may be disregarded according to the referred above document.

5. 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
HORTA/HT HORTA L 383112N0283746W	055°	LEFT	230	5000 FT ALT FL 140	1 MIN
HORTA/HT HORTA L 383112N0283746W	055°	LEFT	280	FL 150 FL 999	1.5 MIN
HORTA/VFL HORTA DVORTAC 383110N0283725W	055°	LEFT	230	5000 FT ALT FL 140	1 MIN
HR401 HR401 382323N0284826W	309°	LEFT	230	FL 140 2100 FT ALT	1 MIN
HR456 HR456 383522N0290021W	154°	RIGHT	230	FL 140 2100 FT ALT	1 MIN
HR560 HR560 382146N0284650W	099°	RIGHT	230	FL 140 2100 FT ALT	1 MIN

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
SOLGI SOLGI 383730N0280158W	266°	RIGHT	230	5000 FT ALT FL 140	1 MIN
VELAS VELAS 383932N0282131W RDL065-DME15 VFL DVORTAC	245°	RIGHT	230	5000 FT ALT FL 140	5 NM
VELAS VELAS 383932N0282131W	245°	RIGHT	220	5000 FT ALT FL 140	1 MIN
XOGRA XOGRA 382412N0290117W RDL259-DME20 VFL DVORTAC	079°	RIGHT	230	5000 FT ALT FL 140	5 NM

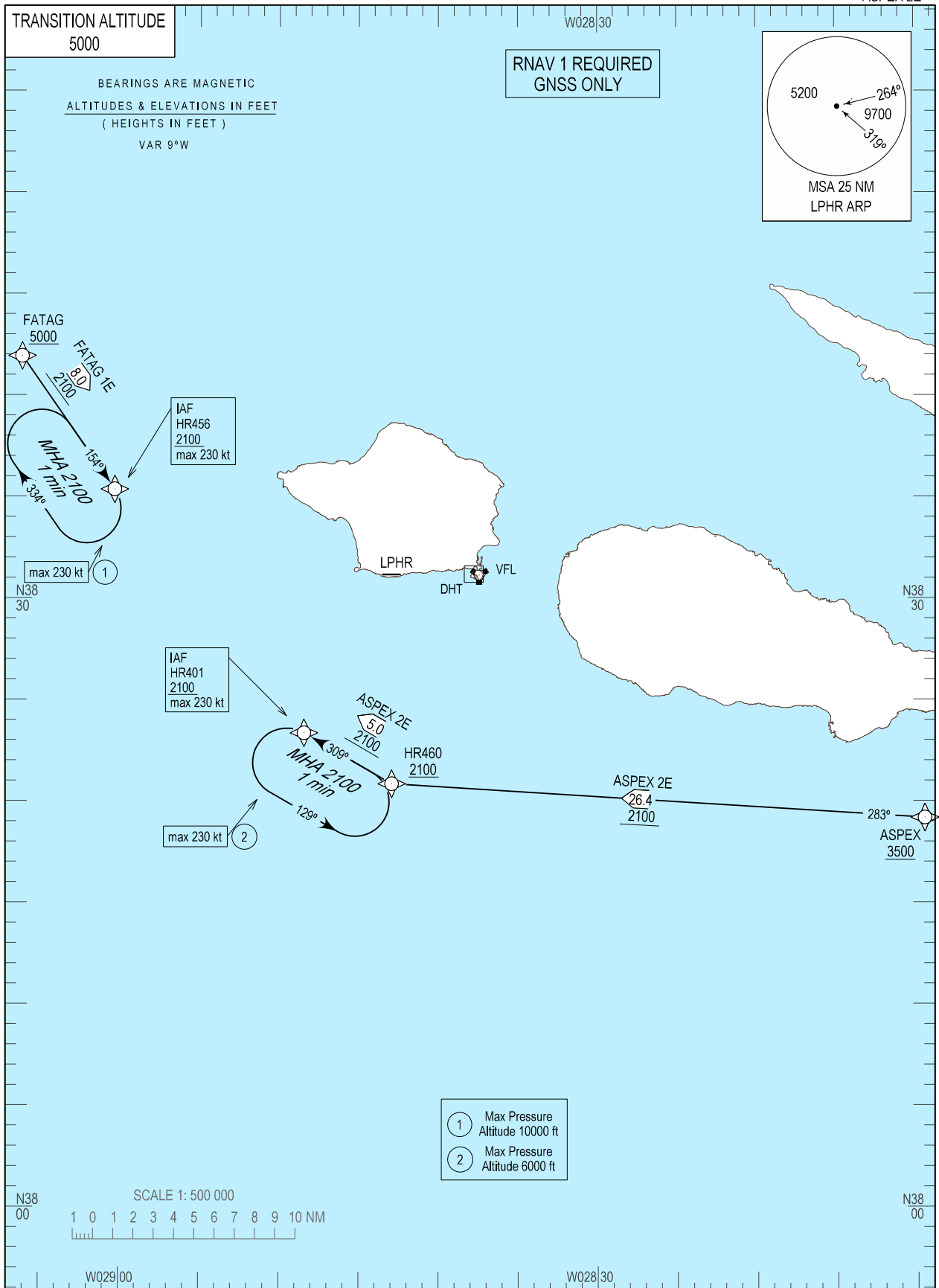
LPHR AD 2.23 ADDITIONAL INFORMATION

1. DISTANCE TO GO SIGNS

Four vertical panels placed 46 meters from runway centreline, measuring 1,25 meters high by 1.22 meters wide, white numbers on black background. The panels are spaced 300 meters apart.

LPHR AD 2.24 CHARTS RELATED TO AN AERODROME

Name	Page
AERODROME CHART - ICAO	LPHR AD 2.24.01-1
AIRCRAFT PARKING / DOCKING CHART - ICAO	LPHR AD 2.24.02-1
AERODROME OBSTACLE CHART (AOC) - ICAO RWY 10	LPHR AD 2.24.04-1
AERODROME OBSTACLE CHART (AOC) - ICAO RWY 28	LPHR AD 2.24.04-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO (RWY 10)	LPHR AD 2.24.08-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO (RWY 10)	LPHR AD 2.24.08-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO (RWY 28)	LPHR AD 2.24.08-5
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO (RWY 28)	LPHR AD 2.24.08-7
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO (RWY 10/28)	LPHR AD 2.24.10-1
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO (RNAV RWY 10)	LPHR AD 2.24.10-3
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO (RNAV RWY 10 FATAG 1E ASPEX 2E)	LPHR AD 2.24.10-5
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO (RNAV RWY 28 FATAG 1S FATAG 1N ASPEX 2W)	LPHR AD 2.24.10-7
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO (RNAV RWY 10/28 NOTMA2E SOLGI2E)	LPHR AD 2.24.10-9
ATC SURVEILLANCE MINIMUM ALTITUDE CHART-ICAO	LPHR AD 2.24.11-1
INSTRUMENT APPROACH CHART - ICAO (L-a CAT A-B)	LPHR AD 2.24.12-1
INSTRUMENT APPROACH CHART - ICAO (L-a CAT C)	LPHR AD 2.24.12-3
INSTRUMENT APPROACH CHART - ICAO (L-b CAT A-B)	LPHR AD 2.24.12-5
INSTRUMENT APPROACH CHART - ICAO (L-b CAT C)	LPHR AD 2.24.12-7
INSTRUMENT APPROACH CHART - ICAO (NDB - a CAT A-B)	LPHR AD 2.24.12-9

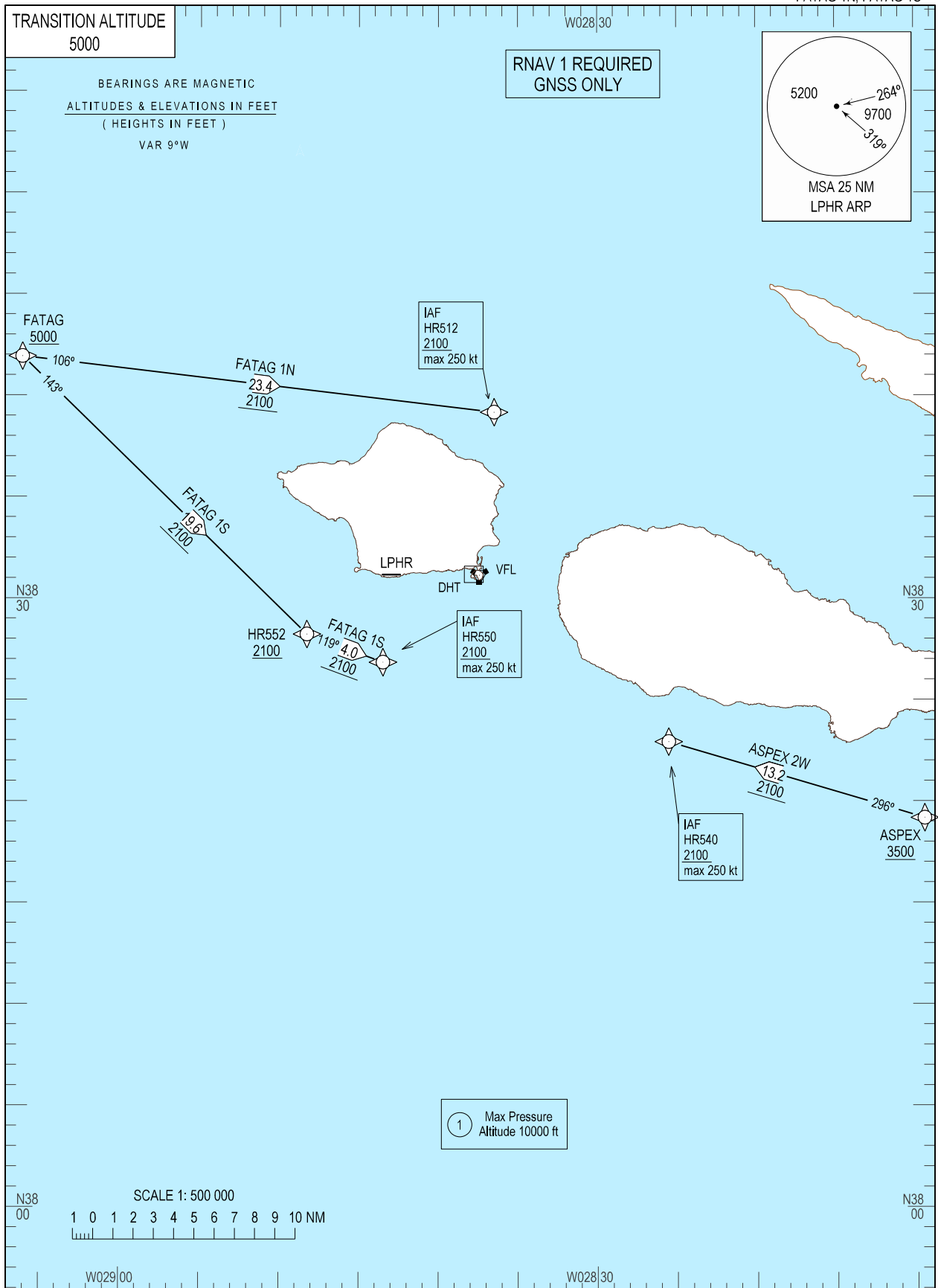
STANDARD ARRIVAL CHART -
INSTRUMENT (STAR) - ICAOSANTA MARIA RADAR 132.150
HORTA APPROACH 120.600
HORTA TOWER 118.000HORTA (LPHR)
RNAV RWY10
FATAG 1E
ASPEX 2E

WPT HR458 replaced by FATAG. Procedure designation changed.

HORTA STAR RNAV FATAG 1E (RWY10)									
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed	
IF	FATAG	-	384156.09N 0290612.17W	-	-	-	+5000 ft	250 kt	RNAV 1
TF	HR456	-	383522.36N 0290021.02W	154 (145.0)	8.0	-	+2100 ft	230 kt	RNAV 1

HORTA STAR RNAV ASPEX 2W (RWY10)									
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed	
IF	ASPEX	-	381910.64N 0280928.77W	-	-	-	+3500 ft	250 kt	RNAV 1
TF	HR460	-	382052.46N 0284255.22W	283 (273.9)	26.4	-	+2100 ft	230 kt	RNAV 1
TF	HR401	-	382322.72N 0284825.50W	309 (300.1)	5.0	Right	+2100 ft	230 kt	RNAV 1

HORTA RNAV Holdings							
HLDG ID	INBD TRACK		TURN DIRECTION	max IAS (kt)	MNM HLDG ALT FL/ft (MSL)	TIME (MIN) or DIST OUBD	Controlling Unit
	MAG	(TRUE)					
HR456	154 (145.0)		R	230	210 ft	1 min	Horta TWR
HR401	309 (300.0)		L	230	210 ft	1 min	Horta TWR

STANDARD ARRIVAL CHART -
INSTRUMENT (STAR) - ICAOSANTA MARIA RADAR 132.150
HORTA APPROACH 120.600
HORTA TOWER 118.000HORTA (LPHR)
RNAV RWY28
ASPEX 2W
FATAG 1N, FATAG 1S

WPT HR458 replaced by FATAG. Procedure designation changed.

HORTA STAR RNAV FATAG 1N (RWY28)									
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed	
IF	FATAG	-	384156.09N 0290612.17W	-	-	-	+5000 ft	250 kt	RNAV 1
TF	HR512	-	383911.65N 0283629.29W	106 (096.6)	23.4	-	+2100 ft	250 kt	RNAV 1

HORTA STAR RNAV FATAG 1S (RWY28)									
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed	
IF	FATAG	-	384156.09N 0290612.17W	-	-	-	+5000 ft	250 kt	RNAV 1
TF	HR552	-	382815.42N 0284815.32W	143 (134.1)	19.6	-	+2100 ft	250 kt	RNAV 1
TF	HR550	-	382652.40N 0284328.60W	119 (110.2)	4.0	Left	+2100 ft	250 kt	RNAV 1

HORTA STAR RNAV ASPEX 2W (RWY28)									
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification
	Identifier	Flyover	Coordinates				Level	Speed	
IF	ASPEX	-	381910.64N 0280928.77W	-	-	-	+3500 ft	250 kt	RNAV 1
TF	HR540	-	382256.99N 0282531.75W	296 (286.7)	13.2	-	+2100 ft	250 kt	RNAV 1

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

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

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

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

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

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

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

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

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

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

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

Apron entrance is only allowed with Follow-Me assistance.

All stands NOSE-IN / NOSE-OUT

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

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

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

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

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

LPLA AD 2.21 NOISE ABATEMENT PROCEDURES

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

LPLA AD 2.22 FLIGHT PROCEDURES

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

OMNIDIRECTIONAL DEPARTURES

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

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

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

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

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

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

RADAR Failure

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

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

All tracks shall be magnetic.

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

Lateral offsets not authorized within Lajes CTA.

Holding Procedures

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
CUDLY CUDLY 383200N0265026W	329°	RIGHT	265	FL 060 FL 140	7 NM
DEVAN DEVAN 385028N 0272341W	061°	LEFT	250	5000 FT ALT FL 140	1 MIN
KOGON KOGON 385959N0271923W	153°	RIGHT	265	FL 060 FL 160	7 NM
LACTA LACTA 385929N0272012W RDL329-LM VOR DME18-TRM TACAN	149°	LEFT	N/A	N/A	5 NM
LAJES/LM LAJES VOR 384702N0270616W	134°	LEFT	230	4700FT ALT FL 140	1 MIN
LIZHA LIZHA 383125N 0270344W	061°	RIGHT	250	5000 FT ALT FL 090	1 MIN
ODAKI ODAKI 383016N 0264923W	331°	RIGHT	230	5000 FT ALT FL 090	1 MIN
UPZET UPZET 390038N 0270751W	241°	RIGHT	250	5000 FT ALT FL 140	1 MIN
VIBOC VIBOC 390145N 0272218W	151°	RIGHT	250	5000 FT ALT FL 140	1 MIN

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

LPLA AD 2.23 ADDITIONAL INFORMATION

1. Bird Concentration

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

Bird Status

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

Bird Repellent Devices:

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

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

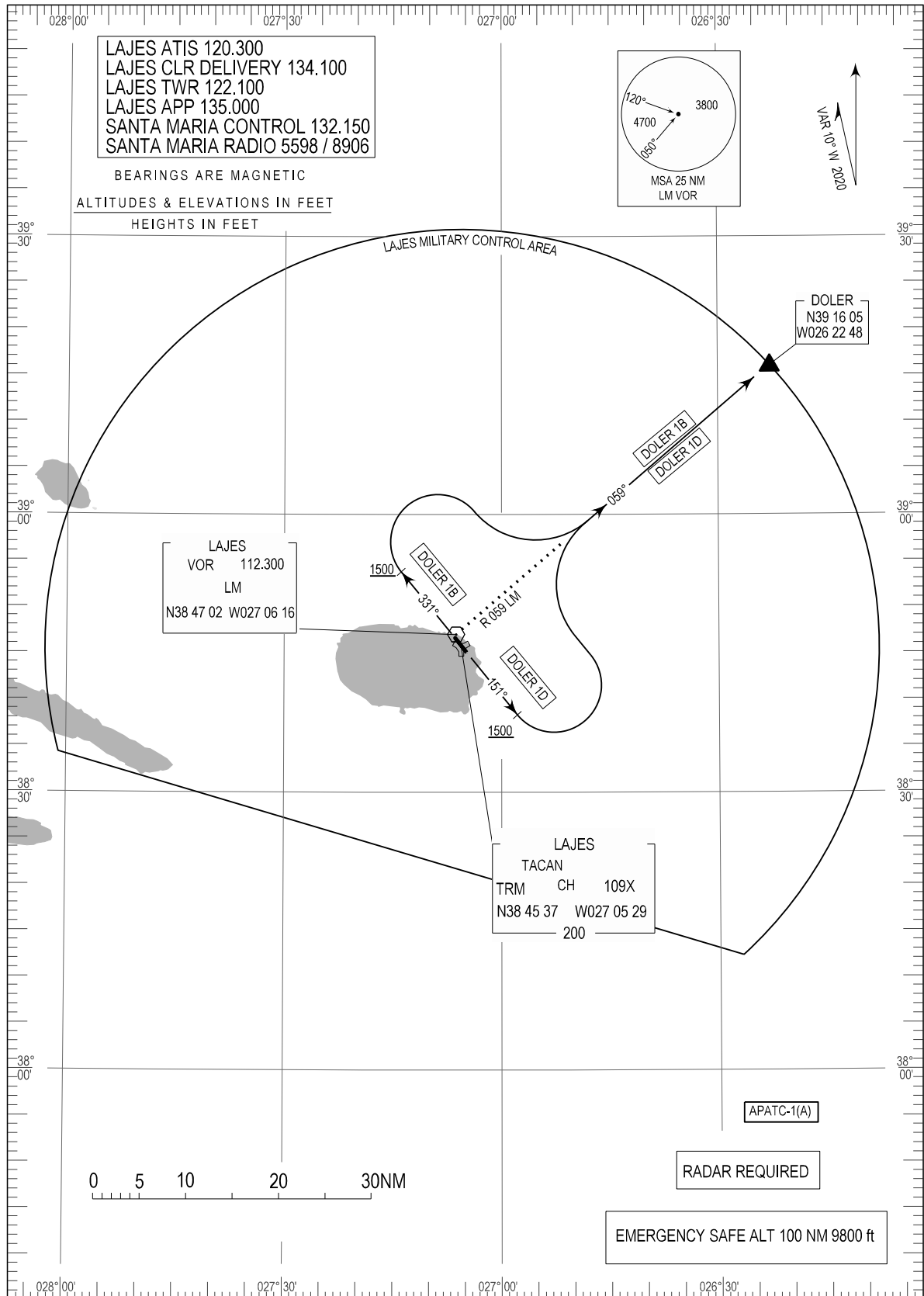
LPLA AD 2.24 CHARTS RELATED TO THE AERODROME

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

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LAJES (LPLA)
LM VOR RWY 15/33
DOLER 1B, DOLER 1D

DOLER 1B, DOLER 1D



MAG VAR updated.

STANDARD INSTRUMENT DEPARTURE (SID) RWY 15/33 LM VOR

RUNWAY 33				
Designator	Route	After Take-off		Remarks
		Climb to ALT / FL	Contact	
DOLER1B	Climb on 331 DEG Track to 1500FT, Turn right, intercept LM RDL059 to DOLER.			RADAR REQUIRED CAUTION Rising terrain both sides of departure courses requires close adherence to the departure track to assure obstruction clearance

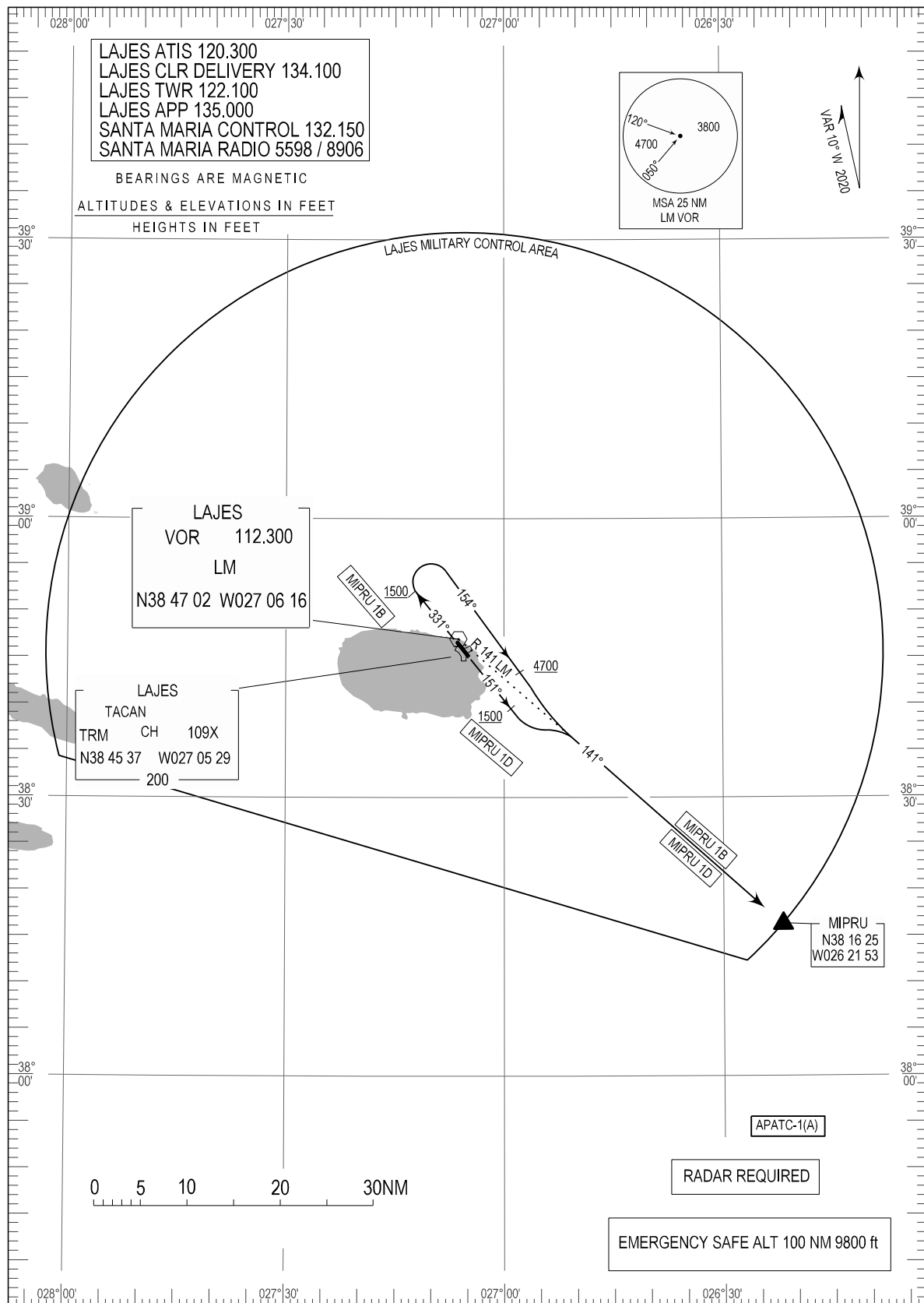
Minimum Climb rate until passing 4700FT							
Runway	Knots	60	120	180	240	300	360
33	Vertical velocity (Feet per minute)	270	540	810	1080	1350	1620

LAJES STANDARD INSTRUMENT DEPARTURE (RWY 15) LM VOR				
Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
DOLER1D	Climb on 151 DEG Track to 1500 ft, Turn LEFT, intercept LM RDL059 to DOLER.	-	-	RADAR REQUIRED CAUTION Rising Terrain both sides of departure courses requires close adherence to the departure track to assure obstruction clearance. NOTE Cross departure end RWY 15, at or above 25 ft AGL or 205 ft MSL, with a minimum climb rate of 380 ft/min, until 500 ft AMSL.

Minimum Climb Rate until passing 500 ft							
Runway	Knots	60	120	180	240	300	360
15	Vertical Velocity (Feet per minute)	380	750	1120	1490	1860	2230

STANDARD DEPARTURE CHART -
INSTRUMENT (SID) - ICAOTRANSITION ALTITUDE
5000LAJES (LPLA)
LM VOR RWY 15/33

MIPRU 1B, MIPRU 1D



MAG VAR updated.

LAJES STANDARD INSTRUMENT DEPARTURE (RWY 33) LM VOR				
Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
MIPRU1B	Climb on 331 DEG Track to 1500 ft, Turn RIGHT, 154 DEG Track, passing 4700 ft Turn RIGHT, intercept LM RDL141 to MIPRU.	-	-	RADAR REQUIRED CAUTION Rising Terrain both sides of departure courses requires close adherence to the departure track to assure obstruction clearance.

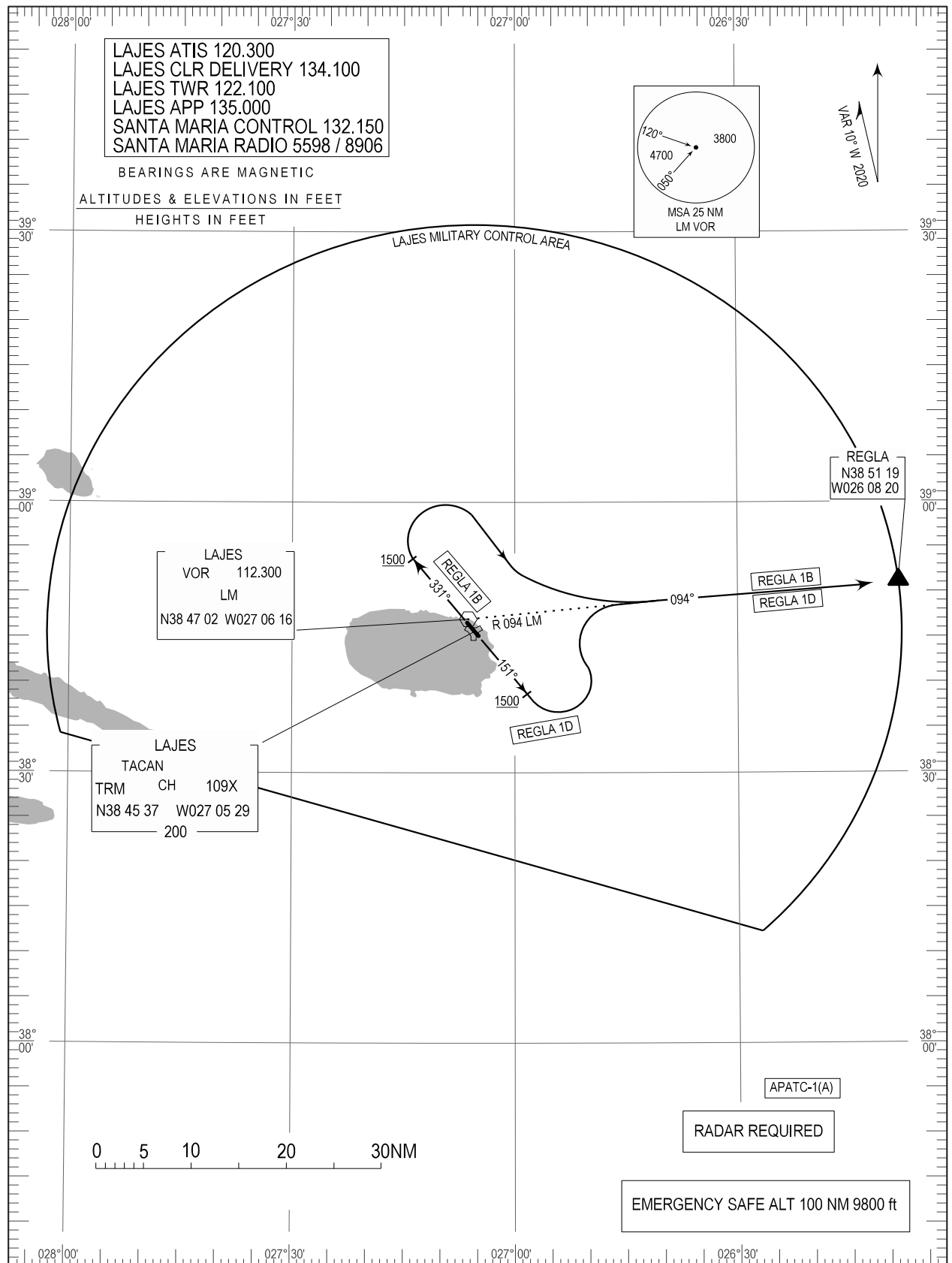
Minimum Climb rate until passing 4700 ft							
Runway	Knots	60	120	180	240	300	360
33	Vertical Velocity (Feet per minute)	270	540	810	1080	1350	1620

LAJES STANDARD INSTRUMENT DEPARTURE (RWY 15) LM VOR				
Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
MIPRU1D	Climb on 151 DEG Track to 1500 ft, Turn LEFT, intercept LM RDL141 to MIPRU.	-	-	CAUTION Rising Terrain both sides of departure courses requires close adherence to the departure track to assure obstruction clearance. NOTE Cross departure end RWY 15, at or above 25 ft AGL or 205 ft MSL, with a minimum climb rate of 380 ft/min, until 500 ft AMSL.

Minimum Climb rate until passing 500 ft							
Runway	Knots	60	120	180	240	300	360
15	Vertical Velocity (Feet per minute)	380	750	1120	1490	1860	2230

STANDARD DEPARTURE CHART -
INSTRUMENT (SID) - ICAOTRANSITION ALTITUDE
5000LAJES (LPLA)
LM VOR RWY 15/33

REGLA 1B, REGLA 1D



MAG VAR updated.

LAJES STANDARD INSTRUMENT DEPARTURE (RWY 33) LM VOR				
Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
REGLA1B	Climb on 331 DEG Track to 1500 ft, Turn RIGHT, intercept LM RDL094 to REGLA.	-	-	RADAR REQUIRED CAUTION Rising Terrain both sides of departure courses requires close adherence to the departure track to assure obstruction clearance.

Minimum Climb rate until passing 4700 ft							
Runway	Knots	60	120	180	240	300	360
33	Vertical Velocity (Feet per minute)	270	540	810	1080	1350	1620

LAJES STANDARD INSTRUMENT DEPARTURE (RWY 15) LM VOR				
Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
REGLA1D	Climb on 151 DEG Track to 1500 ft, Turn LEFT, intercept LM RDL094 to REGLA.	-	-	RADAR REQUIRED CAUTION Rising Terrain both sides of departure courses requires close adherence to the departure track to assure obstruction clearance. NOTE Cross departure end RWY 15, at or above 25 ft AGL or 205 ft MSL, with a minimum climb rate of 380 ft/min, until 500 ft AMSL.

Minimum Climb rate until passing 500 ft							
Runway	Knots	60	120	180	240	300	360
15	Vertical Velocity (Feet per minute)	380	750	1120	1490	1860	2230

Type Category (MAG Variation) (VOR Declination)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DVOR/DME (02° W - 2020)	ESP	112.500MHZ CH 72X	H24	382526.9N 0091108.4W	180M	Coverage: 203°/315° - 200NM FL500 315°/203° - 80NM FL500 Not usable: 060°/180° BYD 30NM BLW 4000FT
DVOR/DME (03° W - 2020)	CAS	114.300MHZ CH90X	H24	384453.7N 0092143.3W	700FT	Coverage: 60NM DVOR sectors not usable: 030/060 BYD 20NM below FL100 290/350 BYD 10NM below FL100
DME	FTM	CH 82X	H24	393957.9N 0082935.6W	700FT	Coverage: 60NM FL500 Not usable: 210° / 230° BYD 35NM BLW 4000FT BYD 40NM BLW 5000FT BYD 47NM BLW 6000FT
DVOR (02° W - 2020)	FTM	113.500 MHZ	H24	393956.5N 0082933.5W		Coverage: 60NM FL500 Not usable: 210° / 230° BYD 35NM BLW 4000FT BYD 40NM BLW 5000FT BYD 47NM BLW 6000FT RDL 173 BYD 65NM at or BLW 9500FT
DVOR/DME (01° W - 2020)	NSA	115.500MHZ CH 102X	H24	DVOR: 393352.8N 0075452.6W DME: 393352.3N 0075452.6W	1300FT	Coverage: 000°/180° - 60NM FL500 181°/359° - 200NM FL500 DME unlocks at 37NM on RDL004
ILS RWY 02 (CAT III/E/4)						
LOC (02° W - 2020)	ILI	109.100 MHZ	H24	384756.8N 0090735.1W		Front course angle: 3.1°
GP / DME	ILI	331.400 MHZ DME CH 28X	H24	384609.7N 0090837.8W	300FT	HGT of ILS: 54.8FT GP: Angle 3° Zero range is indicated at THR RWY 02
MM	Dot - Dashes	75 MHZ	H24	384527.5N 0090854.8W		0.57NM from THR RWY 02
ILS RWY 20 (CAT III/E/4)						
LOC (02° W - 2020)	ILB	109.500 MHZ	H24	384546.4N 0090844.8W		Front course angle: 3.45°
GP / DME	ILB	332.600 MHZ DME CH 32X	H24	384721.0N 0090748.9W	300FT	HGT of ILS: 50FT GP: Angle 3° Zero range indicated at THR RWY 20 only
OM	Dashes	75 MHZ	H24	385111.9N 0090550.6W		3.95NM from THR RWY 20
MM	Dot - Dashes	75 MHZ	H24	384759.4N 0090734.2W		0.49NM from THR RWY 20

LPPT AD 2.20 LOCAL AERODROME REGULATIONS

1. Limitations on use of aerodrome

- 1.1 Restricted to ACFT capable of maintaining two way communications with Lisboa TWR.
- 1.2 Landing and/or take-off is forbidden by Law between 00:00 (23:00) and 06:00 (05:00), except in case of force majeure. However, according to governmental deliberation, exception regime has been granted for Lisboa Airport in which landing and/or take-off are allowed in a limited number.
- 1.3 Night restrictions are now applicable at LISBOA AIRPORT between 00:00 / 06:00 (23:00 / 05:00). This restriction is only applicable to civil subsonic jet aeroplanes with a maximum certificated take-off mass of 34000KG or more, or with a certified maximum internal accommodation for the aeroplane type in question consisting of more than 19 passengers seats, excluding any seats for crew only.
- The authorisation for air movements during this period is conditioned to:
- 1.3.1 The maximum number of movements allowed (26 daily, 91 weekly),
- 1.3.2 The noise level of the aircraft concerned, in compliance with ICAO,
- 1.3.3 Aircraft authorised to land during the night period are strictly forbidden to reverse thrust right after landing,
- 1.3.4 The operating restrictions set out in Item 1.3.1 shall not apply to the following cases of force majeure:
- a. Aircraft operating humanitarian emergency or evacuation missions,
 - b. Aircraft to come across urgent situations, taking in account weather, technical failure or flight safety reasons,
 - c. Air movements subject to an unforeseen schedule alteration due to abnormal disturbance within Air Traffic Control.
 - d. Air movements operated up to 01:00 which were actually scheduled for periods up to 00:00, due to delays for which neither the Airport Management Company nor the Operator were to blame,
 - e. Air movements from / to Autonomous Regions of Madeira and Azores, due to meteorological conditions,
 - f. Landings operated during the period comprised between 05:00 / 06:00, due to weather reasons, as far as the arrival had been scheduled for a time after 06:00.
- 1.3.5 For the purpose of compliance with provision of Item 1.3.2 above, the operator shall, when applying for a slot provide the information contained in the aircraft manufacturer's noise certificate.
- 1.3.6 Noise abatement procedures during approach, landing and take-off shall comply with standards and procedures set in ICAO PANS OPS Volume I and Portuguese AIP.
- 1.3.7 Aircraft authorised to land and take-off shall comply with technical characteristics according to ICAO Annex 16 Volume I, Chapter 4 and Portuguese AIP:
- a. For Landing: Approach to landing MS 9 equal x EPNDB
 - b. For Take-off: (take-off PS side-line) / 2 equal x EPNDB.
- Note:** Information contained in the ACFT manufacturer's noise certificate.
- 1.4 Air movements considered to be of public interest are not defined as a case of force major and have to be previously and exceptionally authorised by the Autoridade Nacional da Aviação Civil (ANAC) according to Decree Law 293/2003 of 19 November.
- 1.5 For request of Airport Slots see page GEN 1.2 - 1.2.2
- 1.6 Due to the actual high demand of traffic inbound Lisboa AD and surrounding aerodromes (LPAR-Alverca, LPCS-Cascais and LPMT-Montijo), the practice of instrument approach to LPPT-Lisboa for training and/or for instruction is not allowed in normal circumstances. Exceptions can be accepted after coordination with the Approach supervisor on duty and subject to analysis.
- 1.7 Penalties for non-compliance with slot allocation rules during the night period:
- See Section GEN 1.2.2.1.2

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

3.9 Engine test runs

Engine test runs may only take place:

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

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

4. Apron 70 operation and procedures

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

Refuel service by fuel trucks only.

5. Parking restrictions

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

Regular Flights

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

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

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

Ad Hoc Flights

Maximum turnarounds of:

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

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

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

6. Use of runways

6.1 Runway-In-Use

RWY 02/20 is the only runway available.

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

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

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

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

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

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

6.2 Periods of Peak Traffic Demand

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

Departures

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

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

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

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

Arrivals

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

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

6.3 Take-off run

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

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

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

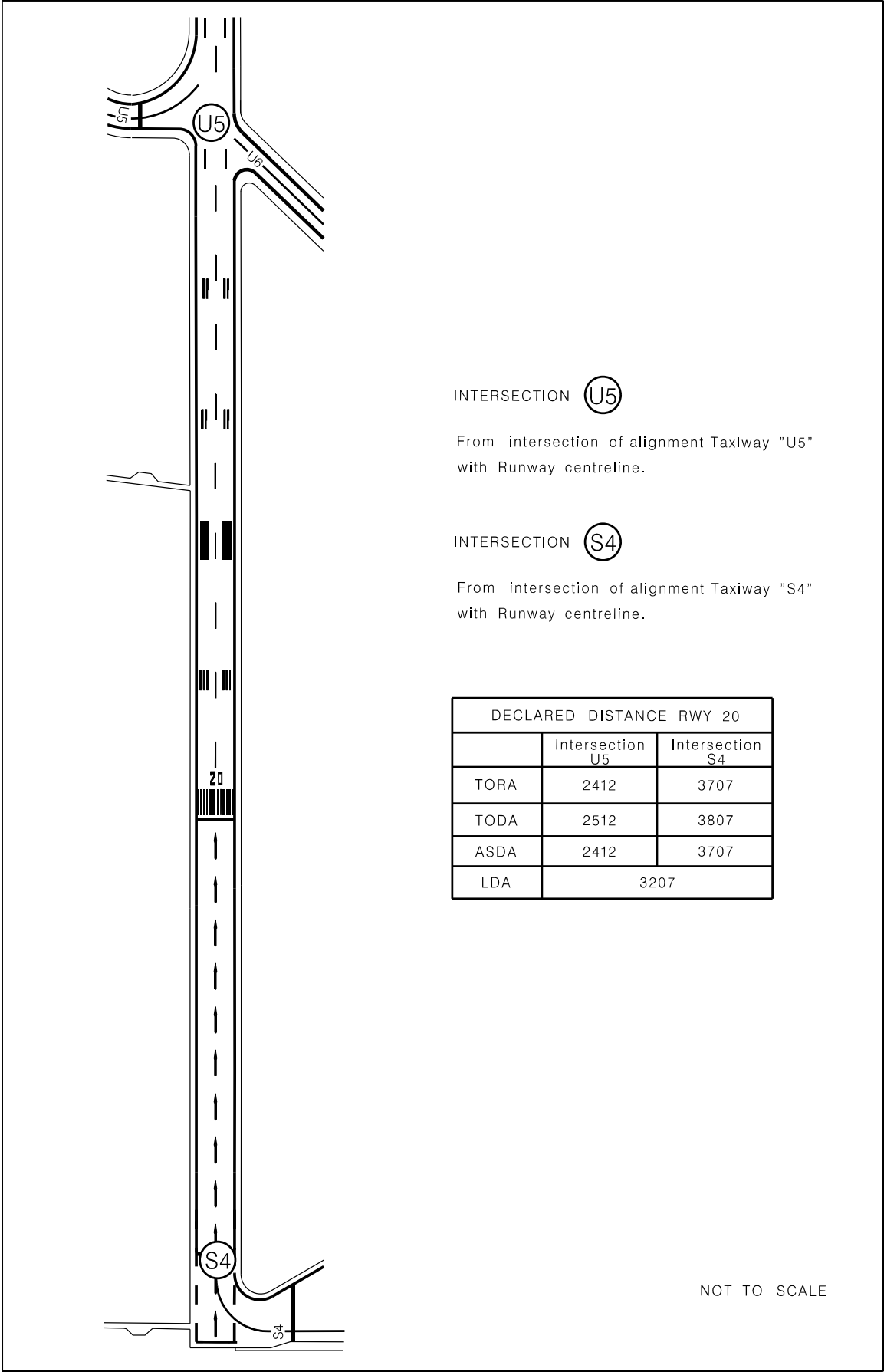
Pilots shall advise ATC on start-up when full length for RWY 02 or RWY 20 is required.

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

- a. the procedure may be used during the day and at night, the controller is able to assess separation visually or by surveillance derived information. The surveillance system that provides the controller with position information shall be utilized in combination with visual means and shall be serviceable at all times;
- b. the tail wind component is not greater than 5KT;
- c. ground visibility is at least 5KM and the ceiling is not less than 300M(1000FT);

-
- d. braking action is not impaired by RWY deposits such as ice, slush, snow, water etc.; pilots should report any impaired braking action detected during landing or departure;
- e. reduced RWY minimum separation is only used between a arriving aircraft after an aircraft departing;
- f. the following aircraft receives traffic information as follows:
..... (call sign) traffic information (Aircraft Type) departing Runway (Designator).
- g. special landing procedures may be in force at Lisbon Airport (Runway 02/20) in conditions shown hereunder, when the use will be as follows:
- when the runway-in-use is temporarily occupied by other traffic departing, landing clearance will be issued to an arriving aircraft provided that at the time the aircraft crosses the threshold of the runway-in-use the following separation distances will exist:
 - RWY02 – the departing aircraft has passed a point at least 2400M from the threshold (reference on the ground is intersection U6).
 - RWY20 – the departing aircraft has passed a point at least 2400M from the threshold (reference on the ground is intersection P).
- h. when issuing a landing clearance following the application of these procedures ATC will issue the second aircraft with the following instructions:
..... (call sign) after the departing (Aircraft Type) cleared to land Runway (Designator).

Figure 2. Runway 20 take-off points



7	Remarks	NIL
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LPPD AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	PONTA DELGADA CTR A circle with 5 NM radius centred at ARP (374431N 0254152W)
2	Vertical limits	2000 FT ALT (600 M)
3	Airspace classification	C
4	ATS unit call sign / Language(s)	Ponta Delgada Approach Ponta Delgada Tower EN, PT
5	Transition altitude	6000 FT
6	Remarks	NIL

LPPD AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
APP	PONTA DELGADA Approach	119.400 MHZ	HO	Primary
		121.500 MHZ	HO	Emergency
TWR	PONTA DELGADA Tower	118.300 MHZ	HO	Primary
		121.500 MHZ	HO	Emergency
ATIS	PONTA DELGADA Information	123.900 MHZ	H24	Phone Service: +351 296305658

LPPD AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type Category (Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
L (07°W-2020)	PD	351 KHZ	H24	374406.1N 0254030.2W		Coverage: 25NM
DVOR/DME (06°W-2020)	VMG	111.200 MHZ CH 49X	H24	DVOR: 375045.6N 0254529.3W DME: 375045.3N 0254528.7W	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.

Type Category (Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR	LM	112.300 MHZ	H24	384702.1N 0270615.8W		Coverage: 100NM Not usable: R215/R275 BYD 15NM Maintenance: MON-FRI 0000-0700(2300-0600).
DVORTAC (09°W-2020)	VFL	112.700 MHZ TACAN: CH 74X	H24	383109.9N 0283724.8W	500 FT	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
VOR/DME (07°W-2020)	VSM	112.000MHZ CH 57X	H24	365746.5N 0250959.0W	300 FT	Coverage: 200NM FL500 Not usable: 065°/130° BYD 20NM BLW 6000FT
ILS RWY 30 (CAT I)						
LOC (07°W-2020)	NL	109.500 MHZ	H24	374448.1N 0254245.4W	250 FT	LOC course 300° MAG Front course sector: Angle 5°
GP		332.600 MHZ	H24	374419.6N 0254123.9W		Angle 3°
DME	NL	CH 32X	H24	374437.9N 0254227.6W	300 FT	Coverage: 60 NM Zero range is indicated at Touchdown RWY 30 for ILS Approach only.
MM	Dot-Dash	75 MHZ	H24	374405.8N 0254029.7W		

LPPD AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Special transit requirements

1 hour advanced opening must be required until 1300 (1200) previous day. 2 hours extension after closing time, when justified, may be required until 1800 (1700) of the same day. Emergency reopening must be required 1 hour PN.

For request of Airport Slots see paragraph GEN 1.2.2

2. Backtrack

Aircraft with MTOW exceeding 80 tonnes must turnaround within the turn pads of RWY12/30.

3. Push-back, Engine Start-up and Taxi Procedures

5	Transition altitude	4000FT
6	Remarks	NIL

LPPR AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
APP	PORTO Approach	120.910 MHz 277.800 MHz 119.505 MHz 121.500 MHz 243.000 MHz	H24	Primary Secondary Emergency Emergency
TWR	PORTO Tower	118.005 MHz 277.800 MHz 118.855 MHz 121.500 MHz 243.000 MHz	H24	Primary Secondary Emergency Emergency
Clearance Delivery	Porto Delivery	118.930 MHz 118.855 MHz	Broadcast by ATIS	Primary Secondary
ATIS	Porto Information	124.305 MHz (arrivals) 121.680 MHz (departures)	H24	ATIS Service also available by ACARS for aircraft equipped with ACARS Management Unit. Providers are SITA for datalink communications and PORTO Control for ATIS Services. Telephone Service: +351 229408074 or 2174 of NAV Portugal E.P.E. internal network.

LPPR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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

LPPR AD 2.20 LOCAL AERODROME REGULATIONS

1. Limitations on use of aerodrome

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

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

2. Radio communication

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

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

3. ATC Clearance

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

Traffic shall provide the following information:

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

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

4.1 Surveillance

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

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

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

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

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

4.2 Aircraft towing procedures

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

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

4.3. Push-Back, Engine start-up

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

Aircraft in contiguous stands are not allowed to move simultaneously.

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

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

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

4.4. Taxi procedures

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

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

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

Reduced Engine Taxi is not allowed:

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

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

Standard push-back (see table below):

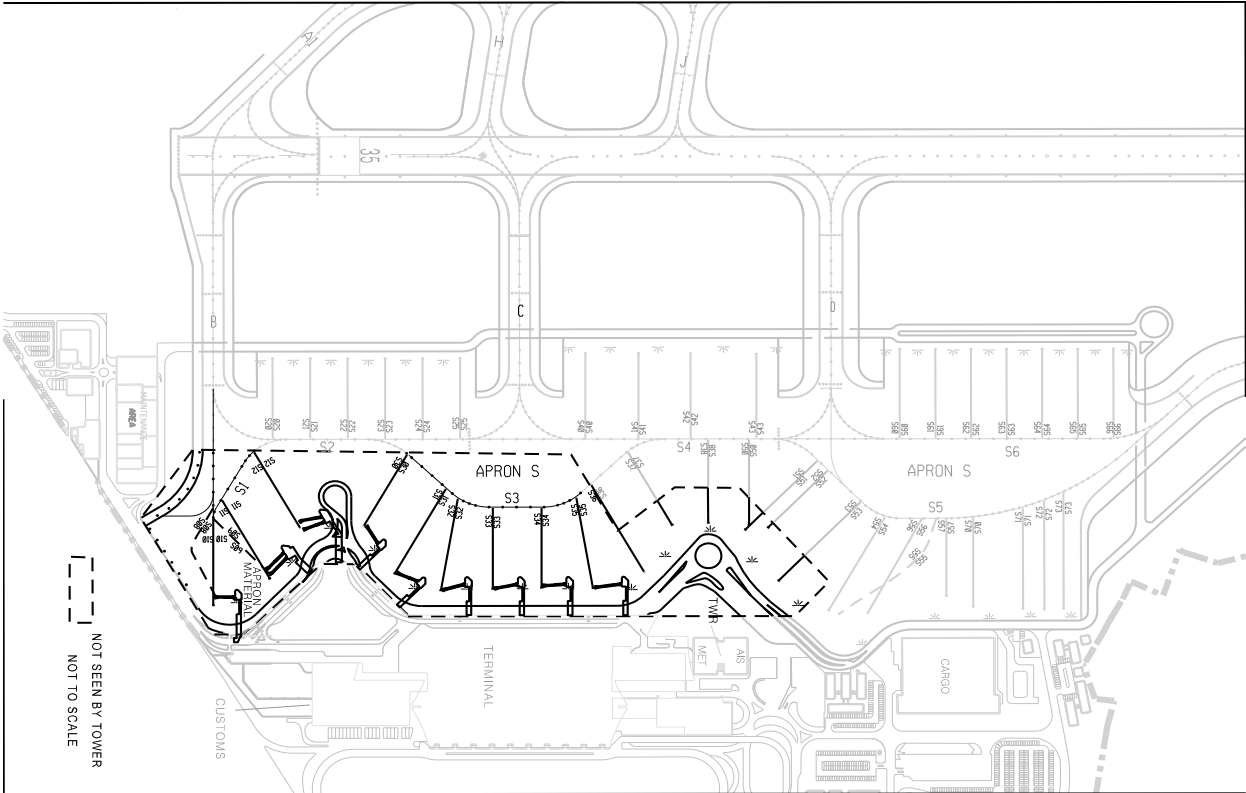
STAND	RWY 17 EXIT BY TWY "E"		RWY 35 EXIT BY TWY "B"	
	BREAKAWAY AREA/ POINT	ACFT NOSE	BREAKAWAY AREA/ POINT	ACFT NOSE
S08	S1	North	S1	North
S09	S1 ACFT Code C	North	S1 ACFT Code C	North
	S2 ACFT Code D and E	North	S2 ACFT Code D and E	South
S10	S1	North	S1	North
S11	S1 ACFT code C	North	S1 ACFT Code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

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

4.5. Areas not seen by Tower

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

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



S3 Intermediate Holding Position Withdrawn.

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

5. EAT Calculation Method

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

6. Visual Approaches

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

If unable advice ATC.

See visual approach procedure chart.

7. Holding Procedures

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

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

LPPR AD 2.23 ADDITIONAL INFORMATION

1. **Bird activity and patterns**
- Flocks of birds with significant activity occur daily at the airport and on the vicinity. Some species groups, like sea gulls (larus sp. and larus fuscus) cross the aerodrome field area from EAST to WEST and vice-versa during morning and evening periods.
2. **Bird hazard warning**
- Bird scaring is accomplished by use of gas cannon units and scarecrow devices, installed along runway strip. The gas cannons are activated whenever birds are detected. The scarecrow devices operate permanently and an additional portable unit is available to be used whenever required.
- Pilots are advised that birds may not always be promptly detected. Caution requested during approach and take-off.
3. **Grass cutting**
- Grass cutting will take place along Strip RWY 17/35, Tuesday to Saturday from 00:00-05:00 (23:00-04:00). Men and equipment under Tower control and airport authority supervision.

LPPR AD 2.24 CHARTS RELATED TO THE AERODROME

Name	Page
AERODROME CHART- ICAO	LPPR AD 2.24.01-1
AIRCRAFT PARKING/DOCKING CHART-ICAO (APRON S)	LPPR AD 2.24.02-1
AIRCRAFT PARKING/DOCKING CHART-ICAO (APRON T and W)	LPPR AD 2.24.02-3
AERODROME OBSTACLE CHART-ICAO – RWY17/35	LPPR AD 2.24.04-1
PRECISION APPROACH TERRAIN CHART-ICAO – RWY17	LPPR AD 2.24.06-1
STANDARD DEPARTURE INSTRUMENT (SID) – RWY17	LPPR AD 2.24.08-1
STANDARD DEPARTURE INSTRUMENT (SID) – RWY35	LPPR AD 2.24.08-3
STANDARD DEPARTURE INSTRUMENT CHART (SID) RNAV RWY 17	LPPR AD 2.24.08-5

AERODROME CHART - ICAO

41°14'08"N
008°40'41"W

ELEV 69 m

PORTO ARR INFORMATION 124.305
PORTO DEP INFORMATION 121.680

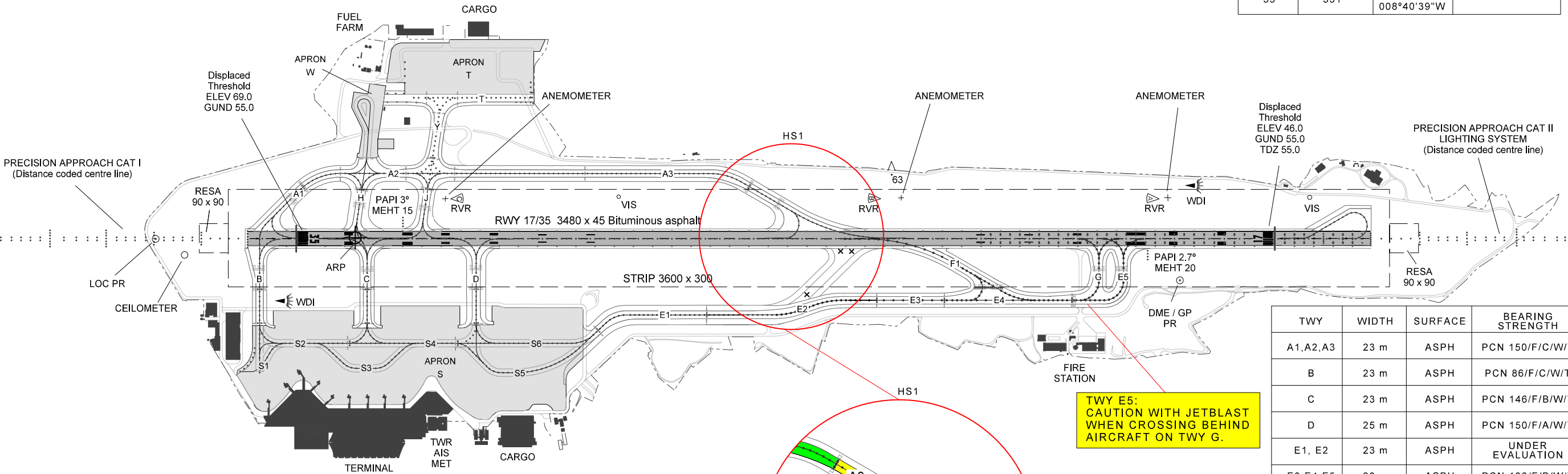
PORTO DELIVERY 118.930
PORTO TOWER 118.005

PORTO, Francisco Sá Carneiro (LPPR)

ELEVATIONS AND DIMENSIONS IN METRES
BEARING ARE MAGNETIC

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

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



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

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

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

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

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AIRCRAFT PARKING
DOCKING CHART - ICAO

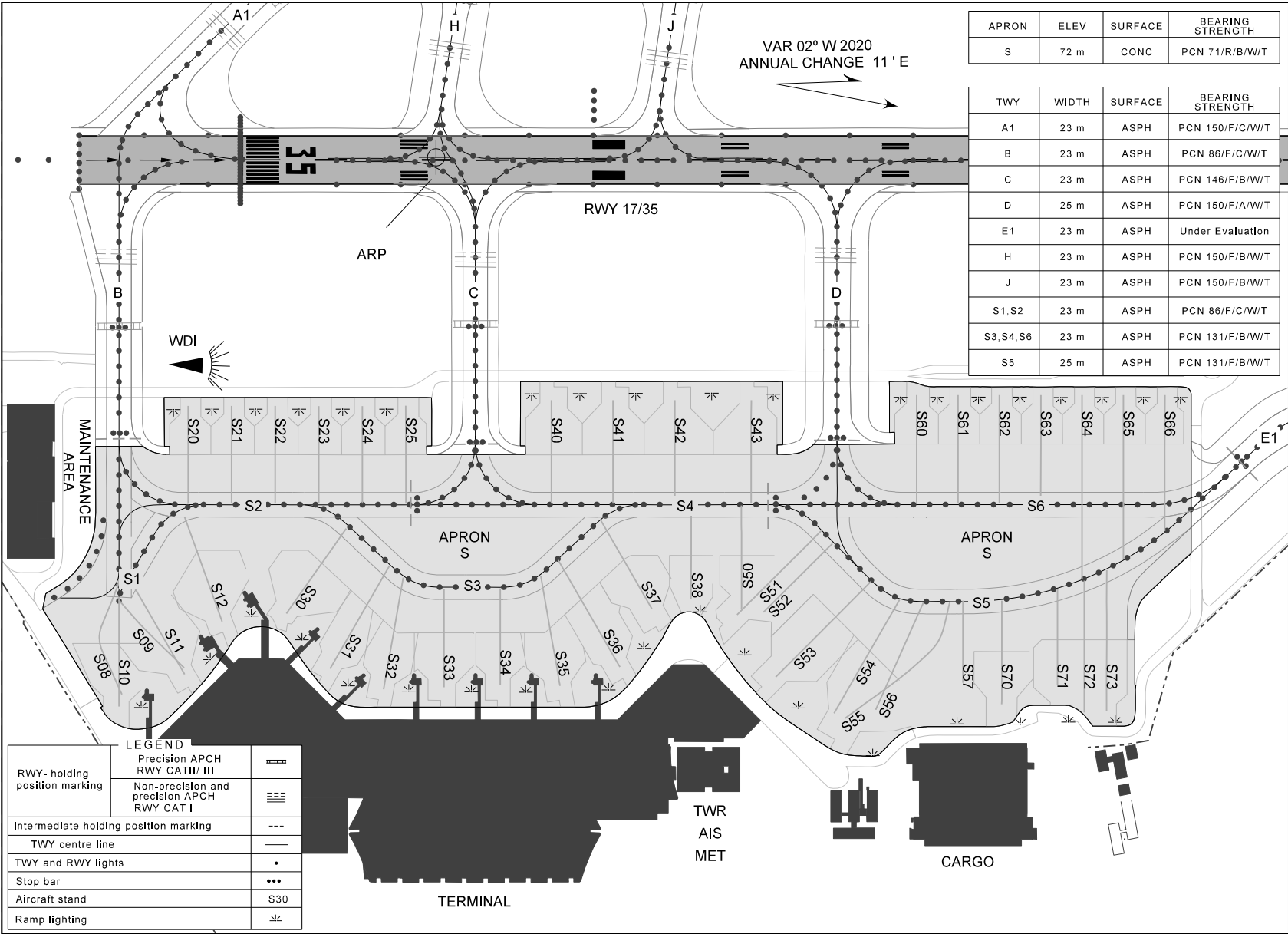
APRON S
ELEV 72 m

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

PORTO, Francisco Sá Carneiro
(LPPR)

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

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



S3 Intermediate Holding Position Withdrawn

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Type Category (Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DVOR/DME (06°W-2020)	VMG	111.200 MHZ CH 49X	H24	VOR: 375045.6N 0254529.3W DME: 375045.3N 0254528.7W	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 below 8000FT. DME not usable: 170°/190° BYD 40NM BLW 6000FT. DME false ranges and unlocks may occur beyond 92NM at 5500FT.
ILS RWY 18 (CAT I)						
LOC (07°W-2020)	MA	110.300 MHZ	H24	365720.2N 0251002.9W		NIL
GP		335.000 MHZ	H24	365900.6N 0251017.6W		Slope 2.75 DEG HGT of ILS: 50FT.
MM	Dot Dashes	75 MHZ	H24	365948.0N 0251032.6W		0.66NM from THR 18

LPAZ AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Limitations on use of aerodrome

NIL

2. Taxiing

Due to wingspan Taxiway D and Taxiway E can not be used by the below mentioned aircraft:

- Boeing 747 / 777
- Airbus A330 / A340
- Lockheed C5 (Galaxy)
- McDonnell-Douglas MD11
- Antonov 124 / 225

LPAZ AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

LPAZ AD 2.22 FLIGHT PROCEDURES

1. STANDARD INSTRUMENT DEPARTURES FROM SANTA MARIA AERODROME

STANDARD INSTRUMENT DEPARTURE (SID) DESCRIPTIONS: see back of SID charts.

2. STANDARD INSTRUMENT ARRIVAL TO SANTA MARIA AERODROME

GENERAL REMARKS:

Above Minimum Flight Altitude non-standard Instrument Arrival Routes and procedures may be assigned by ATC.

Depending on Traffic conditions, ATC may clear RNAV certified flights for a Straight-in ILS approach (IAF VSM RDL 359/15NM DME) - see page LPAZ AD 2.24.12-1. Flights so cleared shall proceed direct to the IAF above, and if necessary for the purposes of DOC. 8168, chapter 4, paragraph 4.4.1, the IAF associated holding pattern shall be flown as per DOC. 8168, chapter 1, paragraph 1.3.8. Pilots must ensure no MSA's are infringed, and, when ready for the approach, shall cross the IAF at the altitude appropriate for the procedure.

RADIO COMMUNICATIONS FAILURE:

1. In the event of RCF, aircraft shall proceed to VSM Holding (North or South) according to Runway in use, at last assigned level.
2. At ETA according to current flight plan, start descent to initial approach altitude to carry out a standard IFR approach, according to IAC.

STANDARD INSTRUMENT ARRIVAL (STAR) DESCRIPTIONS: see back of STAR charts.

3. 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
GIRIX GIRIX 371234N0251311W RDL357-DME15 VSM VOR/DME	177°	RIGHT	230	3500 FT ALT FL 140	5 NM
SANTA MARIA/VSM SANTA MARIA VOR/DME 365746N0250959W	202°	RIGHT	230	3500 FT ALT FL 140	1 MIN
SANTA MARIA/VSM SANTA MARIA VOR/DME 365746N0250959W	334°	LEFT	230	3500 FT ALT FL 140	1 MIN
SANTA MARIA/VSM SANTA MARIA VOR/DME 365746N0250959W	334°	LEFT	280	FL 150 FL 999	1.5 MIN
URATU URATU 364146N0250914W RDL185-DME16 VSM VOR/DME	005°	RIGHT	230	3500 FT ALT FL 140	5 NM

LPAZ AD 2.23 ADDITIONAL INFORMATION

On taxiing expect seasonal bird activity at the Ramp (March to June and September to November).

LPAZ AD 2.24 CHARTS RELATED TO THE AERODROME

Name	Page
AERODROME CHART-ICAO	LPAZ AD 2.24.01-1
AIRCRAFT PARKING/DOCKING CHART-ICAO	LPAZ AD 2.24.02-1
AERODROME OBSTACLE CHART - ICAO Type A (RWY 18-36)	LPAZ AD 2.24.04-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) – ICAO (RWY 18)	LPAZ AD 2.24.08-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) – ICAO (RWY 36)	LPAZ AD 2.24.08-3
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) – ICAO (RWY 18/36)	LPAZ AD 2.24.10-1
INSTRUMENT APPROACH CHART-ICAO – (ILS or LOC RWY 18)	LPAZ AD 2.24.12-1
INSTRUMENT APPROACH CHART-ICAO – (VOR RWY 18 CAT A-B)	LPAZ AD 2.24.12-3
INSTRUMENT APPROACH CHART-ICAO – (VOR RWY 18 CAT C-D)	LPAZ AD 2.24.12-5

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

LPVR - VILA REAL

LPVR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site	LAT: 411632N LONG: 0074312W Right side RWY02. 625M from THR02 and 33M from RWY centreline
2	Direction and distance of ARP from city or town	4KM SE from Vila Real City
3	Elevation/Reference temperature	558M / 1832FT 29.4° C (AUG)
4	Geoid undulation at aerodrome elevation position	56M
5	MAG VAR / Annual change	01° W (2020) / 0.17° (decreasing)
6	AD Administration, address, telephone, telefax, telex, AFS	Post: Aeródromo de Vila Real Vila Nova de Cima - Folhadela 5000-101 VILA REAL Phone: AD Director: +351 259336620 AFS: NIL Email: afis@cm-vilareal.pt Email: nunoferreira@cm-vilareal.pt
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	Vila Real is a non-controlled Aerodrome.

LPVR AD 2.3 OPERATIONAL HOURS

1	AD Administration	AD Operational hours: 07:30-20:00 (06:30-19:00) or SUNSET (whichever is earlier) * AD Administration: Working days 09:00-12:30 (08:00-11:30) and 14:00-17:30 (13:00-16:30)
2	Customs and immigration	NIL
3	Health and sanitation	NIL
4	AIS Briefing Office	NIL
5	ATS Reporting Office (ARO)	NIL
6	MET Briefing Office	NIL
7	ATS	08:00-20:00 (07:00-19:00) or SUNSET (whichever is earlier) including Public Holidays (AFIS only) *
8	Fuelling	07:30-20:00 (06:30-19:00) or SUNSET (whichever is earlier)
9	Handling	NIL
10	Security	NIL
11	De-icing	NIL
12	Remarks	* Night flights permitted till 23:59 (22:59) and anticipation of the opening hours (maximum 1 hour) with PPR of 24h to the Aerodrome Director.

LPVR AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities:	NIL
2	Fuel/oil types	NIL
3	Fuelling Facilities / capacity	NIL
4	De-icing facilities	NIL
5	Hangar space available for visiting aircraft	Two Hangars: 1 - Owner Vila Real Aeroclub with 23Mx12M (door 11MX3.3M) 2 - Owner AMF-Aviation with 30Mx30M
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

LPVR AD 2.5 PASSENGERS FACILITIES

1	Hotels	In Vila Real city
2	Restaurants	In the vicinity of the AD and in Vila Real city
3	Transportation	Bus. Taxi on request.
4	Medical facilities	Hospital in Vila Real, distant 8KM from AD
5	Bank and Post Office	In Vila Real city
6	Tourist Office	In Vila Real city
7	Remarks	NIL

LPVR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 1
2	Rescue equipment	NIL
3	Capability for removal of disabled aircraft	NIL
4	Remarks	CAT 5 on request

LPVR 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	NIL

LPVR AD 2.17 ATS AIRSPACE

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

LPVR AD 2.18 ATS COMMUNICATION FACILITIES

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

LPVR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type Category (MAG Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DVOR/DME (02° W - 2020)	VIS	113.100MHZ CH 78X	H24	404324.3N 0075309.0W	640.57M	Coverage: 200NM FL500 Not usable: 130°/180° BLW 9000FT BYD 40NM 180°/315° BLW 6000FT BYD 40NM 315°/130° BLW 8000FT BYD 40NM DVOR: With excessive needle fluctuation may be observed: RDL 184 between 28-33NM at FL105 RDL 315 between 11-13NM at FL095 DME: RDL 099 signal strength drops below tolerance beyond 47NM

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

The Aerodrome is a NON-CONTROLLED Aerodrome.

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

2. Ultralight Flights

Ultralight flights are permitted at aerodrome

LPVR AD 2.21 NOISE ABATEMENT PROCEDURES

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

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

LPVR AD 2.22 FLIGHT PROCEDURES

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

- Two-way radio communications
- Submission of a FPL

Holding Procedures

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

LPVR AD 2.23 ADDITIONAL INFORMATION

Bird Activity:

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

LPVR AD 2.24 CHARTS RELATED TO AN AERODROME

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