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AIP AIRAC 001-23
Effective Date 23-MAR-2023
Publication Date 09-FEB-2023

1. AIRAC changes incorporated in this AIP Amendment:

GEN

NIL

ENR

3.6 New holding procedures.
 4.1 DVOR/DME SNT restrictions changed.
 4.4 New significant points.
 5.5 Model flying area withdrawn.

AD

LPCS Visual holding point DELTA changed.
 Cabo da Roca visual point inserted.
 Local Traffic Regulations changed.

LPLA IAP ILS RWY 15 LOC restriction changed.
 IAP ILS RWY 15 minima updated. Caution box disclaimer removed.
 IAP ILS RWY 33 minima updated, Caution box restriction removed.
 IAP VOR RWY 33 minima updated.
 New IAPs.

LPMA DVOR/DME SNT restrictions changed.
 LPMA RNP Z RWY 05 AR, waypoint table corrected.

LPPR ADC, AOC RWY 17/35, closed TWY outline added.
 TWY F1 RWY/TWY markings and lights, RETIL added.

LPPS DVOR/DME SNT restrictions changed.

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

GEN

2.2 New abbreviation.
 2.7 Sunrise sunset tables, URL changed.
 3.1 eVFR Manual publishing medium changed.
 3.3 LPLA, AD MIL administration email changed.

ENR

NIL

AD

LPCR

AD administration TEL, FAX correction.

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

NOTAM Series A: A0432/23.

SUP: NIL

AIC: NIL

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

Insert the following pages

GEN 0.2 - 1/2 23-MAR-2023
 GEN 0.3 - 1/2 23-MAR-2023 / 23-MAR-2023
 GEN 0.3 - 3/4 23-MAR-2023
 GEN 0.4 - 1/2 23-MAR-2023 / 23-MAR-2023
 GEN 0.4 - 3/4 23-MAR-2023 / 23-MAR-2023
 GEN 2.2 - 3/4 23-MAR-2023 / 19-MAY-2022
 GEN 2.7 - 1/2 23-MAR-2023
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 ENR 5.5 - 1/2 23-MAR-2023 / 23-MAR-2023
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 LPCS AD 2 - 9/10 01-DEC-2022 / 23-MAR-2023
 LPCS AD 2 - 11/12 01-DEC-2022 / 23-MAR-2023
 LPCS AD 2.24.13-1 - 1/2 23-MAR-2023 / 23-MAR-2023
 LPCR AD 2 - 1/2 23-MAR-2023 / 02-DEC-2021
 LPLA AD 2 - 1/2 23-MAR-2023 / 28-MAR-2019
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 LPLA AD 2 - 11/12 12-AUG-2021 / 23-MAR-2023
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 LPLA AD 2.24.12-1 - 1/2 23-MAR-2023
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 LPLA AD 2.24.12-5 - 5/6 23-MAR-2023
 LPLA AD 2.24.12-7 - 7/8 23-MAR-2023
 LPLA AD 2.24.12-9 - 9/10 23-MAR-2023 / 23-MAR-2023
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 LPMA AD 2 - 19/20 23-MAR-2023
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 LPPR AD 2.24.01-1 - 1/2 23-MAR-2023
 LPPR AD 2.24.04-1 - 1/2 23-MAR-2023
 LPPS AD 2 - 7/8 14-JUL-2022 / 23-MAR-2023

Remove the following pages

GEN 0.2 - 1/2 01-DEC-2022 / N/A
 GEN 0.3 - 1/2 01-DEC-2022 / 01-DEC-2022
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 LPPR AD 2.24.01-1 - 1/2 06-OCT-2022 / N/A
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 LPPS AD 2 - 7/8 14-JUL-2022 / 19-MAY-2022

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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	
001/2023	09-Feb-2023	23-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	
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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	

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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
042/2021	LPPC FIR - WINDMILL FARM (ARGOMIL-GUARDA)	ENR	12-AUG-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
012/2022	LPPT AD - NON-STANDARD PARKING ON STAND S42	AD	24-Mar-2022	31-MAR-2023 EST
017/2022	LPPT AD - OBSTACLE ERECTED (CRANE)	AD	19-MAY-2022	30-SEP-2023 EST
019/2022	LPBJ AD - TWY H EDGE LIGHTS U/S	AD	19-MAY-2022	Effective UFN
040/2022	LPPT AD - ACFT CODE D AND CODE E TWY RESTRICTIONS	AD	14-JUL-2022	31-DEC-2023 EST
042/2022	LPPT AD - OBSTACLE ERECTED	AD	14-JUL-2022	27-MAY-2024 EST
043/2022	LPPD AD - OBSTACLES ERECTED	AD	14-JUL-2022	26-MAY-2023 EST
052/2022	LPPT AD - OBSTACLE ERECTED (CATUJAL LOURES)	AD	11-AUG-2022	09-JUN-2023 EST
053/2022	LPPD AD - ARO/AIS-AD OPERATIONAL HOURS	AD	11-AUG-2022	29-DEC-2023 EST
057/2022	LPFR AD - OBSTACLE ERECTED	AD	06-OCT-2022	22-MAY-2023 EST
058/2022	LPLA AD - TWY G CLOSED	AD	06-OCT-2022	Effective UFN
061/2022	LPPT AD - PARKING RESTRICTIONS	AD	01-DEC-2022	29-OCT-2023 EST
066/2022	LPPT AD - OBSTACLE ERECTED	AD	01-DEC-2022	31-MAR-2024 EST
067/2022	LPPT AD - OBSTACLE ERECTED (CRANE)	AD	01-DEC-2022	01-JUN-2023 EST

NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
002/2023	LPAZ AD - TWR OBST LIGHTS U/S	AD	27-JAN-2023	30-JUN-2023 EST
003/2023	LPPI AD - OPERATING HOURS	AD	27-JAN-2023	28-OUT-2023
004/2023	LPLA AD - OBSTACLES (ANTENNAS)	AD	27-JAN-2023	Effective UFN
007/2023	LPPT AD - CRANE ERECTED (UNIV. LISBOA)	AD	27-JAN-2023	31-MAR-2023 EST
008/2023	LPPS AD - FIRE FIGHTING AND RESCUE DOWNGRADED	AD	27-JAN-2023	31-DEC-2023 EST
009/2023	LPPT AD - OBSTACLE ERECTED (CRANE - CAMARATE)	AD	27-JAN-2023	31-MAR-2023 EST
010/2023	LPPT AD - OBSTACLE ERECTED (CRANE HERA RESIDENCES 1)	AD	27-JAN-2023	31-MAR-2023 EST
011/2023	LPPT AD - OBSTACLE ERECTED	AD	27-JAN-2023	31-MAR-2024 EST
012/2023	LPPC FIR - UNMANNED AERIAL VEHICLE (DRONE) ACTIVITY	ENR	27-JAN-2023	31-DEC-2023
013/2023	LPPC FIR - UNMANNED AIRCRAFT SYSTEMS (UAS) WITHIN LPR43C	ENR	27-JAN-2023	31-DEC-2023
014/2023	LPPT TMA - VFR LIMITATIONS	ENR	23-FEB-2023	31-DEC-2023 EST
015/2023	LPPT TMA - VFR ROUTE CLOSED (TNW)	ENR	23-FEB-2023	31-DEC-2023 EST
016/2023	LPPC FIR - UNMANNED AIRCRAFT SYSTEMS (UAS) WITHIN R51BN/R51BS (LPBJ)	ENR	23-FEB-2023	31-DEC-2023
017/2023	LPPC FIR - UNMANNED AIRCRAFT SYSTEMS (UAS)	ENR	23-FEB-2023	31-DEC-2023
018/2023	LPPR AD - NON-STANDARD PARKING PROCEDURE	AD	27-JAN-2023	30-JUN-2023 EST
019/2023	LPPR AD - PORTO APPROACH SECONDARY FREQUENCY U/S	AD	23-FEB-2023	31-DEC-2023 EST
020/2023	LPPT AD - OBSTACLE ERECTED (CRANE - LOT 69)	AD	27-JAN-2023	28-FEB-2023 EST
021/2023	LPPC FIR - OBSTACLE ERECTED (ALTO DO MARCO)	AD	27-JAN-2023	30-JUN-2023 EST
022/2023	LPPC FIR - OBSTACLE ERECTED (CAPUCHA)	ENR	27-JAN-2023	30-JUN-2023 EST
023/2023	LPPC FIR - OBSTACLE ERECTED (ALVAIÁZERE)	ENR	27-JAN-2023	30-JUN-2023 EST
024/2023	LPPC FIR - OBSTACLE ERECTED (PINHAL INTERIOR)	ENR	27-JAN-2023	30-JUN-2023 EST
025/2023	LPPC FIR - OBSTACLE ERECTED (GARDUNHA)	ENR	27-JAN-2023	30-JUN-2023 EST
026/2023	VOR/DME VSM VOR PART U/S	ENR, AD	23-MAR-2023	30-JUN-2023 EST
027/2023	LPFR AD - STAND CLOSED	AD	23-MAR-2023	Effective UFN
028/2023	LPPT AD - OBSTACLE ERECTED (CRANE 1 - CAMARATE)	AD	23-MAR-2023	30-JUN-2023 EST
029/2023	LPEV AD - RWY 07/25 CLOSED	AD	23-MAR-2023	30-JUN-2023 EST
030/2023	LPPS AD - RWY 18 TURN PAD CLOSED	AD	23-MAR-2023	Effective UFN
031/2023	LPBJ AD - LIGHTS U/S	AD	23-MAR-2023	31-DEC-2023 EST
032/2023	LPPD AD - TERRAIN SIGNALLING LIGHTS U/S	AD	23-MAR-2023	30-JUN-2023 EST
033/2023	LPPT AD - OBSTACLE ERECTED	AD	23-MAR-2023	31-AUG-2023 EST

NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
034/2023	LPPT AD - OBSTACLE ERECTED (FACULDADE FARMÁCIA)	AD	23-MAR-2023	31-JAN-2024 EST
035/2023	LPPS AD - DELAYS ON UNSCHEDULED FLIGHTS	AD	23-MAR-2023	31-DEC-2023 EST
036/2023	BELARUSSIAN AIRCRAFT RESTRICTIONS	ENR, AD	09-FEB-2023	09-AUG-2023 EST

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GEN 0.4 CHECKLIST OF AIP PAGES

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PART 1 – GENERAL (GEN)					
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GEN 0.1 - 2	20-MAY-2021	GEN 3.5 - 2	19-MAY-2022	ENR 2.1 - 5	24-MAR-2022
GEN 0.2 - 1	23-MAR-2023	GEN 3.5 - 3	19-MAY-2022	ENR 2.1 - 6	24-MAR-2022
GEN 0.3 - 1	23-MAR-2023	GEN 3.5 - 4	19-MAY-2022	ENR 2.1 - 7	24-MAR-2022
GEN 0.3 - 2	23-MAR-2023	GEN 3.5 - 5	14-JUL-2022	ENR 2.1 - 8	14-JUL-2022
GEN 0.3 - 3	23-MAR-2023	GEN 3.5 - 6	14-JUL-2022	ENR 2.1 - 9	24-MAR-2022
GEN 0.4 - 1	23-MAR-2023	GEN 3.6 - 1	12-AUG-2021	ENR 2.1 - 10	24-MAR-2022
GEN 0.4 - 2	23-MAR-2023	GEN 3.6 - 2	12-SEP-2019	ENR 2.1 - 11	24-MAR-2022
GEN 0.4 - 3	23-MAR-2023	GEN 3.6 - 3	12-SEP-2019	ENR 2.1 - 12	24-MAR-2022
GEN 0.4 - 4	23-MAR-2023	GEN 3.6 - 4	12-SEP-2019	ENR 2.1 - 13	24-MAR-2022
GEN 0.5 - 1	09-JUN-2006	GEN 3.6 - 5	08-JAN-2016	ENR 2.1 - 14	24-MAR-2022
GEN 0.6 - 1	09-NOV-2017	GEN 4.1 - 1	01-DEC-2022	ENR 2.1 - 15	14-JUL-2022
GEN 0.6 - 2	09-NOV-2017	GEN 4.2 - 1	27-JAN-2023	ENR 2.1 - 16	24-MAR-2022
GEN 0.6 - 3	09-NOV-2017	GEN 4.2 - 2	01-MAY-2014	ENR 2.1 - 17	24-MAR-2022
GEN 1.1 - 1	20-AUG-2015	GEN 4.2 - 3	01-MAY-2014	ENR 2.1 - 18	24-MAR-2022
GEN 1.1 - 2	09-NOV-2017	GEN 4.2 - 4	27-JAN-2023	ENR 2.1 - 19	24-MAR-2022
GEN 1.1 - 3	07-DEC-2017	GEN 4.2 - 5	27-JAN-2023	ENR 2.2 - 1	23-MAY-2019
GEN 1.2 - 1	01-DEC-2022	PART 2 – EN-ROUTE (ENR)			
GEN 1.2 - 2	01-DEC-2022	ENR 0.1 - 1	09-JUN-2006	ENR 2.2 - 2	20-MAY-2021
GEN 1.2 - 3	01-DEC-2022	ENR 0.2 - 1	09-JUN-2006	ENR 2.2 - 3	20-MAY-2021
GEN 1.2 - 4	01-DEC-2022	ENR 0.3 - 1	04-AUG-2006	ENR 2.2 - 4	20-MAY-2021
GEN 1.2 - 5	01-DEC-2022	ENR 0.4 - 1	04-AUG-2006	ENR 2.2 - 5	23-MAY-2019
GEN 1.2 - 6	01-DEC-2022	ENR 0.5 - 1	09-JUN-2006	ENR 2.2 - 6	23-MAY-2019
GEN 1.2 - 7	01-DEC-2022	ENR 0.6 - 1	09-NOV-2017	ENR 2.2 - 7	23-MAY-2019
GEN 1.2 - 8	01-DEC-2022	ENR 0.6 - 2	09-NOV-2017	ENR 2.2 - 8	23-MAY-2019
GEN 1.2 - 9	01-DEC-2022	ENR 0.6 - 3	09-NOV-2017	ENR 2.2 - 9	23-MAY-2019
GEN 1.2 - 10	01-DEC-2022	ENR 1.1 - 1	24-MAR-2022	ENR 2.2 - 10	23-MAY-2019
GEN 1.2 - 11	01-DEC-2022	ENR 1.1 - 2	24-MAR-2022	ENR 2.2 - 11	23-MAY-2019
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GEN 1.3 - 1	13-NOV-2014	ENR 1.1 - 5	24-MAR-2022	ENR 2.2 - 14	23-MAY-2019
GEN 1.3 - 2	13-NOV-2014	ENR 1.1 - 6	06-OCT-2022	ENR 2.2 - 15	23-MAY-2019
GEN 1.4 - 1	09-JUN-2006	ENR 1.1 - 7	06-OCT-2022	ENR 2.2 - 16	24-JUN-2016
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GEN 1.5 - 2	26-FEB-2021	ENR 1.1 - 9	06-OCT-2022	ENR 2.2 - 18	23-MAY-2019
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GEN 1.6 - 2	19-JUN-2020	ENR 1.1 - 11	06-OCT-2022	ENR 2.2 - 20	23-MAY-2019
GEN 1.7 - 1	26-APR-2018	ENR 1.1 - 12	06-OCT-2022	ENR 2.2 - 21	23-MAY-2019
GEN 1.7 - 2	05-DEC-2019	ENR 1.1 - 13	06-OCT-2022	ENR 2.2 - 22	23-MAY-2019
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GEN 1.7 - 7	28-MAR-2019	ENR 1.2 - 3	27-JAN-2023	ENR 2.2 - 27	23-MAY-2019
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GEN 1.7 - 11	10-OCT-2019	ENR 1.4 - 3	28-MAR-2019	ENR 2.2 - 31	23-MAY-2019
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INA	Initial approach	MARSA	* Military Assumes Responsibility for Separation of Aircraft
INBD	Inbound		
INFO	Information	MATF	Missed approach turning fix
INOP	Inoperative	MAX	Maximum
INS	Inertial navigation system	MAY	May
INT	Intersection	MCTA	* Military Control Area
INTL	International	MCTR	Military Control Zone
INTST	Intensity	MCW	Modulated continuous wave
IPMA	* Instituto Português do Mar e da Atmosfera	MDA	Mínimum descent altitude
IRS	Inertial reference system	MEA	Mínimum enroute altitude
IRU	* Inertial reference unit	MEDEVAC	Medical Evacuation Flight
ITC	* Inclusive Tour Charter Flight	MEHT	Minimum, eye height over threshold (for visual approach slope indicator systems)
	J	MEL	Minimum Equipment List
		MET	Meteorological or meteorology
		METAR	Aviation routine weather report (in aeronautical meteorological code)
JAA	* Joint Aviation Authorities		
JAN	January	MF	Medium frequency (300 to 3 000 khz)
JUL	July	MHA	Minimum Holding Altitude
JUN	June	MHZ	Megahertz
	K	MID	Mid-point (related to RVR)
		MIL	Military
		MIN	Minutes
KG	Kilograms	MLAT	* Multilateration
KHZ	Kilohertz	MLS	Microwave landing system
KIAS	Knots indicated airspeed	MM	Middle marker
KM	Kilometres	MNM	Minimum
KT	Knots	MNPS	Minimum navigation performance specifications
	L	MNPSA	Minimum navigation performance specifications airspace
		MON	Monday
L	Left (Preceded by runway identification)	MS	Minus
L	Locator (see LM, LO)	MSA	Minimum sector altitude
LAT	Latitude	MSAW	Minimum Safe Altitude Warning
LCN	* Load Classification Number	MSL	Mean sea level
LDA	Landing distance available	MSSR	Monopulse secondary surveillance radar
LDG	Landing	MTOM	Maximum take-off mass
LDI	Landing direction indicator	MTOW	* Maximum take-off weight
LF	Low frequency (30 to 300 KHz)	MWO	Meteorological watch office
LGT	Light or lighting		
LGTD	Lighted		
LIH	Light intensity high	N	
LIL	Light intensity low	N	North or northern latitude
LIM	Light intensity medium	N/A	* Not Applicable
LM	Locator, middle	NAC	* Navigation accuracy category
LMT	Local mean time	NAT	North Atlantic
LNAV	Lateral navigation (to be pronounced "EL-NAV")	NATSPG	* North Atlantic Systems Planning Group
LO	Locator, outer	NAV	Navigation
LoA	* Letter of agreement	NAVAID	Navigation Aid
LOC	Localizer	NDB	Non-directional radio beacon
LONG	Longitude	NE	North-east
LORAN	LORAN (long range air navigation system)	NIC	* Navigation integrity category
LP	* Localizer Performance	NIL	None or I have nothing to send to you
LPV	Localizer performance with vertical guidance	NM	Nautical miles
LRG	Long range	NNW	North-north-west
LVL	Level	NOC	* National OPMET Centre
LVP	Low Visibility Procedures	NOF	International NOTAM office
LVO	* Low Visibility Operation	NOTAM	A notice distributed by means of telecommunication containing information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations
	M		
M	Mach number (followed by figures)		
M	Metres (preceded by figures)		
MAG	Magnetic	NOTAMC	Cancelling NOTAM
MAP	Aeronautical maps and charts	NOTAMN	New NOTAM
MAPT	Missed approach point	NOTAMR	Replacing NOTAM
MAR	March	NOV	November

GEN 2.7 SUNRISE/SUNSET TABLES

Sunrise / Sunset / Twilight times for the Portuguese aerodromes can be obtained from the following website:

URL:<http://ais.nav.pt/en/ais/sunrise-sunset-tables>

The tables provided have been prepared by the Faculty of Sciences of the University of Lisbon.

The times given for the sunrise (SR) and sunset (SS) are calculated taking into account the sun's equatorial coordinates on that day and moment as well as its distance from the Earth. It takes into account atmospheric refraction. The moments thus calculated correspond to the instant the sun's upper limb touches the local horizon defined by the aerodrome elevation (in meters), with respect to ARP.

The times in the tables are given in UTC for beginning of civil morning twilight (TWILIGHT FROM), sunrise (SR) sunset (SS), and end of civil evening twilight (TWILIGHT TO), for the civilian year.

The UTC times given for the beginning of civil morning twilight and end of civil evening twilight are calculated for the solar disk's centre at an altitude of 6° below the horizon, as commonly used.

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GEN 3 SERVICES**GEN 3.1 AERONAUTICAL INFORMATION SERVICES****3.1.1 Responsible Service**

1.1 The Portuguese Aeronautical Information Service (AIS), a part of NAV Portugal, E.P.E. structure, ensures, on behalf of the Portuguese State, the flow of information necessary for the safety, regularity and efficiency of international and national air navigation within its area of responsibility as indicated under GEN 3.1.2.

The AIS comprises the AIS Headquarters, International NOTAM Office (NOF) and AIS/ARO units established at the aerodromes listed under GEN 3.1.5.

1.2 AIS Headquarters

Post: NAV Portugal, E.P.E.
Aeronautical Information Service
Aeroporto de Lisboa
Rua C, Edifício 118 – Centro de Controlo de Tráfego Aéreo de Lisboa
1700-007 LISBOA

Phone: +351 218553506
+351 218553696 (management)

Email: desica@nav.pt

AFS: LPPPYOYC

URL: <http://www.nav.pt/ais>

Hours of operation: MON to FRI: 09:00-12:30 (08:00-11:30) and 14:00-17:30 (13:00-16:30)

1.3 International NOTAM Office (NOF)

Post: NAV Portugal, E.P.E.
Aeroporto de Lisboa
Rua C, Edifício 118 - Centro de Controlo de Tráfego Aéreo de Lisboa
1700-007 LISBOA

Phone: +351 218553342 (recorded)
+351 218553346
+351 218553348 (management)
+351 218413500 Ext. 20515

Email: ICALIS@nav.pt

Email: LPPT.COM.NOF@nav.pt (operations)

AFS: LPPPYNYX

Hours of operation: H24

The service is provided in accordance with the provisions contained in Annex 15 - Aeronautical Information Services and DOC.10066 PANS-AIM. Differences from ICAO Annex 15 standards and recommended practices are listed in GEN 1.7.

3.1.2 Area of responsibility

The Aeronautical Information Services is responsible for the collection and dissemination of information for the entire territory of Portugal and for airspace over the high seas encompassed by Lisboa FIR (LPPC) and Santa Maria FIR (LPPO).

3.1.3 Aeronautical publications

3.1 Aeronautical information is provided in the form of Aeronautical Information Products in a standardized presentation of the following elements:

- Aeronautical Information Publication (AIP);
- Visual Flight Rules Manual (VFR Manual);
- Amendment service to the AIP (AIP AMDT);
- Amendment service to the VFR Manual;
- Supplement to the AIP (AIP SUP);
- Supplements to the VFR Manual;
- Aeronautical Information Circulars (AIC);
- NOTAM including NOTAM checklist; and
- Aeronautical Charts.

3.2 Aeronautical Information Publication (AIP)

The AIP is the basic aviation document intended primarily to satisfy international requirements for the exchange of permanent aeronautical information and long duration temporary changes essential for air navigation.

The AIP of Portugal is available in electronic form (eAIP) for use in international and domestic operations. It is issued in English only and available on the AIS website <https://www.nav.pt/ais>.

3.3 Visual Flight Rules Manual (VFR Manual)

The VFR Manual contains all relevant information for VFR traffic and is published in bilingual text in Portuguese and English. It is updated by means of VFR Manual amendments and/or VFR Manual Supplements. The VFR Manual is available in electronic format (ISO file).

3.4 Amendment service to the AIP (AIP AMDT)

AIP Amendments contain permanent changes to the AIP.

Amendments to the eAIP are published by reissuing the eAIP. Each eAIP issue contains:

- The complete AIP for the relevant effective date;
- The AIRAC AIP AMDT for the relevant effective date;
- Published AIP Supplements and Aeronautical Information Circulars (AIC) as is on the publication date of eAIP.

eAIP sections have a check box in the top right corner, which allows changes to be displayed graphically. The changes in the eAIP are identified by a pink background, and removed text is struck through with a horizontal line. In the PDF version changes on text pages are identified by a vertical line in the left margin. On charts, change description is indicated on the margin.

Two different types of Amendments are produced:

- AIRAC AIP Amendment (AIRAC AIP AMDT), issued in accordance with the AIRAC system and identified by the acronym — AIRAC, incorporates operationally significant permanent changes into the AIP on the indicated AIRAC effective date.
- Regular AIP Amendment (AIP AMDT), issued in accordance with the established regular interval, incorporates permanent changes into the AIP on the indicated publication date.

A brief description of the subjects affected by the amendment is given on the AIP Amendment cover sheet. Each AIP page and AIP replacement page introduced by an amendment is dated including the amendment cover sheet. The date consists of the day, month (by name) and year of the publication date (regular AIP AMDT) or of the AIRAC effective date) of the information (AIRAC AIP AMDT). Each AIP amendment cover sheet includes references to the serial number of those elements, if any, of the Aeronautical Information Products which have been incorporated in the AIP by the amendment and are consequently cancelled.

Each AIP AMDT and each AIRAC AIP AMDT are allocated separate serial numbers, which are consecutive for the AIP AMDT and based on the calendar year for the AIRAC AIP AMDT. The year, indicated by two digits, is a part of the serial number of the amendment, e.g. AIP AMDT 025/20, AIRAC AIP AMDT 001/20.

A checklist of AIP pages containing page number/chart title and the publication or effective date of the information (day, month by name and year) is reissued with each amendment and is an integral part of the AIP (ref. GEN 0.4).

3.5 Amendment service to the VFR Manual

The VFR Manual Amendments are published only as Regular Amendments and contain information of both operational and non-operational significance. Amendments are published with the necessary regularity to keep the VFR Manual up-to-date.

The amendment numbering is consecutive.

3.6 Supplements to the AIP (AIP SUP)

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

Each AIP Supplement (regular or AIRAC) shall be allocated a serial number which shall be consecutive and based on the calendar year, e.g. AIP SUP 004/20; AIRAC AIP SUP 0051/20.

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

AIP Supplements, which are published in the period between the issue of two consecutive eAIP AMDT, are made available on AIS website <https://www.nav.pt/ais> and subscribers notified by e-mail.

The checklist of AIP Supplements currently in force is issued as part of the monthly NOTAM checklist Series A and published in the AIP (GEN-0.3).

Valid supplements in PDF format are also available on the AIS website <https://www.nav.pt/ais>

3.7 Supplements to the VFR Manual

The VFR Manual Supplements are published only as Regular Supplements and contain information of both operational and non-operational significance.

VFR Manual Supplements, which are published in the period between the issue of two consecutive VFR AMDT, are made available on AIS website <https://www.nav.pt/ais> and subscribers notified by e-mail.

The checklist of VFR Manual Supplements currently in force is issued as part of the monthly NOTAM checklist Series C and D.

Valid VFR Manual Supplements in PDF format are also available on the AIS website <https://www.nav.pt/ais>.

3.8 Aeronautical Information Circulars (AIC)

The Aeronautical Information Circulars (AIC) contain information on the long-term forecast of any major change in legislation, regulations, procedures or facilities; information of a purely explanatory or advisory nature liable to affect flight safety; and information or notification of an explanatory or advisory nature concerning technical, legislative or purely administrative matters.

Each AIC is numbered consecutively on a calendar year basis. The year, indicated by four digits, is a part of the serial number of the AIC, e.g. AIC 001/2020.

A checklist of AIC currently in force is issued as a part of the monthly NOTAM Checklist Series A and a checklist of AIC is published once a year.

AIC which are published in the period between the issue of two consecutive eAIP AMDT are made available on AIS website <https://www.nav.pt/ais> and subscribers notified by e-mail

Valid AIC in PDF format are also available on AIS website <https://www.nav.pt/ais>

3.9 NOTAM and Pre-Flight Information Bulletins (PIB)

NOTAM contain information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential for personnel concerned with flight operations.

The text of each NOTAM contains the information in the order shown in the ICAO NOTAM Format and is composed of the significations/uniform abbreviated phraseology assigned to the ICAO NOTAM Code complemented by ICAO abbreviations, indicators, identifiers, designators, call signs, frequencies, figures and plain language.

NOTAM are published by the International NOTAM Office (NOF), in three series (A, C and D).

Series A - Contains information concerning:

- a. International aerodromes;
- b. National Aerodromes at which instrument flight procedures or special VFR procedures are established;
- c. General Rules;
- d. En-Route Navigation and Communication Facilities;
- e. Airspace restrictions and Navigation Warnings;
- f. En-Route Air Navigation Obstacles.

Series C and D - Contains information concerning:

- a. National Aerodromes / Heliports at which only VFR flights are permitted;
- b. Amendment to any section of the VFR Manual;

Series C is promulgated in English and Series D in Portuguese.

Each NOTAM is assigned to a series identified by a letter (A, C or D) and a four-digit number followed by a stroke and a two-digit number for the year (e.g. A0050/20). Each series starts on the first of January with number 0001.

SNOWTAM - Contains information concerning:

The presence of hazardous conditions due to frost or standing water on the runway. For more information regarding which aerodromes SNOWTAM is applicable, see AD 1.2.2.

NOTAM, including SNOWTAM, are transmitted by the Eurocontrol European AIS Database (EAD) in accordance with a predetermined distribution system. Requests concerning the distribution of NOTAM shall be addressed to Lisboa International NOTAM Office (GEN 3.1.1).

Pre-flight Information Bulletins (PIB) contain a presentation of current NOTAM and other information of urgent nature and significance to the operator/flight crews and are available as described in GEN 3.1.5.

3.10 Checklists and lists of valid NOTAM

A checklist of valid NOTAM is issued monthly for each NOTAM series, via the Aeronautical Fixed Service (AFS). Checklist series A contains the list of valid NOTAM and information about the valid AIP AMDT, AIRAC AIP AMDT, AIP SUP, AIC and a AIP AIRAC NIL notification in case there will be no AIRAC AIP AMDT published in a future AIRAC effective date, at least 28 days in advance of the AIRAC date concerned. Checklists series C and D contain the list of valid NOTAM and information about the valid VFR Manual AMDT and SUP.

3.11 Availability of publications

Publications can be obtained from the Aeronautical Information Service. Details and prices are published annually via AIC. The eAIP can be downloaded from the AIS Website free of charge as ISO Image file.

All enquiries regarding the supply of Portuguese AIS Publications should be addressed to the AIS Headquarters (GEN 3.1.1).

3.1.4 AIRAC system

4.1 In order to control and regulate the operationally significant changes requiring amendments to charts, route-manuals etc., such changes, whenever possible, will be issued on predetermined dates according to the AIRAC System. This type of information will be published as an AIRAC AIP AMDT or an AIRAC AIP SUP. If an AIRAC AMDT or SUP cannot be produced due to lack of time, a NOTAM will be issued. Such NOTAM will be incorporated in an AMDT or SUP.

4.2 The table below indicates AIRAC effective dates for the coming years. AIRAC information is issued so that the information will be received by the user not later than 28 days, and for major changes not later than 56 days, before the effective date. At AIRAC effective date, a trigger NOTAM will be issued giving a brief description of the contents, effective date and reference number of the AIRAC AIP AMDT or AIRAC AIP SUP that will become effective on that date. Trigger NOTAM will remain in force as a reminder in the PIB for a period of 14 days.

If no information has been submitted for publication at the AIRAC date, a NIL notification will be included in the NOTAM checklist, at least 28 days in advance of the AIRAC date concerned. The predetermined effective dates of the AIRAC system are as follows:

Schedule of AIRAC effective dates

2021	2022	2023	2024	2025
28 January	27 January	26 January	25 January	24 January
25 February	24 February	23 February	22 February	21 February
25 March	24 March	23 March	21 March	20 March
22 April	21 April	20 April	18 April	17 April
20 May	19 May	18 May	16 May	15 May
17 June	16 June	15 June	13 June	12 June
15 July	14 July	13 July	11 July	10 July
12 August	11 August	10 August	08 August	07 August
09 September	08 September	07 September	05 September	05 September
07 October	06 October	05 October	03 October	02 October
04 November	03 November	02 November	31 October	30 October
02 December	01 December	30 November	28 November	27 November
30 December	29 December	28 December	26 December	25 December

3.1.5 Pre-flight information services at aerodromes/heliports

Pre-flight Information Service is available at all AIS / ARO Aerodrome Units

AIS / ARO UNIT HOURS OF SERVICE	TELEPHONE	E-mail	TELEFAX	AFS
Faro 06:00-24:00 (05:00-23:00) (1)	+351 289894175 (recorded) +351 289894176 (recorded)	lpfraro@nav.pt	+351 289818748 +351 289818714	LPFRZPZX
Madeira 08:00-24:00 (07:00-23:00) (1)	+351 291520610 / 1 +351 291520700 Ext. 25279 / 25224	lpmaaro@nav.pt	+351 291524966	LPMAZPZX
Lisboa H24 (1)	+351 218413500 Ext. 20384 +351 218553341(recorded) +351 218553338(recorded)	lpptaro@nav.pt	+351 218553653	LPPTZPZX
Ponta Delgada 07:00-01:00 (06:00-24:00)	+351 296305656	pdlafs@nav.pt	+351 296305657	LPPDZPZX
Porto 07:00-19:00 (06:00-18:00) (1)	+351 229408024 +351 229408025 +351 229448912	lppraro@nav.pt	+351 229408088 +351 229408089	LPPRZPZX

(1) Also available via Self-Briefing terminal at Airport Operations Room.

The FPL and BRIEFING internet system, available on <http://www.nav.pt/ais/>, was developed to facilitate the provision of automated Pre-Flight Information Bulletins (PIB) and filing Flight Plans. There are four types of PIB available:

- Aerodrome;
- Area (including Special Area);
- Route;
- Narrow route.

PIB are made available at the aerodromes listed in GEN 3.1.5 and at www.nav.pt/ais on FPL and Briefing.Pre-Flight information service is available at aerodromes as detailed below:

Aerodromes	Briefing Coverage
LPPT	All States within ECAC area. AFI - Algeria, Angola, Benin, Burkina Faso, Cameroon, Canarias (Spain), Cape Verde, Central African Republic, Chad, Congo, Egypt, Equatorial Guinea, Gabon, Ghana, Guinea, Guinea Bissau, Ivory Coast, Liberia, Malawi, Mali, Mauritania, Morocco, Mozambique, Namibia, Niger, S. Tomé and Príncipe, Senegal, Sierra Leone, South Africa, Togo, Tunisia. CAR / SAM - Brazil, Colombia, Cuba, Dominican Republic, Jamaica, México, Venezuela. NAT / NAM - Canada, United States of America (en-route for East Coast). MID - Israel, Saudi Arabia, United Arab Emirates.
LPPR	All States within ECAC area. AFI - Morocco.
LPFR	All States within ECAC area. AFI - Morocco.
LPMA	All States within ECAC area. AFI - Morocco.
LPPD	All States within ECAC area. NAT / NAM - Canada, United States of America.

3.1.6 Digital data sets

1. Terrain data (Area 1)

The Direção Geral do Território in Lisbon will provide terrain data for Portugal territory (Area 1) electronically in compliance with ICAO requirements. These data can be acquired and used within the framework of license contracts with Direção Geral do Território. All queries by users regarding the availability of electronic terrain data shall be addressed in writing to:

Direção Geral do Território

Post: Rua Artilharia Um, 107
1099-052 LISBOA
Portugal

Email: loja@dgterritorio.pt

2. Obstacle data

Obstacle data for Area 1 (obstacles higher than 100M above ground) is available on request to AIS Headquarters (see GEN 3.1.1). However, presently obstacle data does not fully comply with electronic obstacle data requirements.

2. Santa Maria FIR (LPPO)

Unit Name	Postal Address	Telephone NR.	Telefax NR.	Email Address	AFS address
1	2	3	4	5	6
Santa Maria OAC	Apartado 47 9580-909 VILA DO PORTO Açores	+351 296820400	+351 296886863	smaoacc@nav.pt	LPPOZOZX
Flores TWR	Aeroporto da Ilha das Flores 9970-320 SANTA CRUZ DAS FLORES Açores	+351 292590070	+351 292590071	twrflo@nav.pt	LPFLZTZX
Horta TWR	Aeroporto da Horta Castelo Branco 9900-361 HORTA Açores	+351 292208212	+351 292208213	twrhor@nav.pt	LPHRZTZX
Ponta Delgada TWR	Aeroporto João Paulo II 9500-749 PONTA DELGADA Açores	+351 296305653	+351 296305654	twrpd@nav.pt	LPPDZTZX
Lajes TWR	Base Aérea Nº4 9760-277 LAJES VPV, Ilha Terceira Açores	+351 295540779 / 524 (OPS Duty Officer)	+351 295540792	ba4_go_noa_soa@emfa.pt ba4_odo@emfa.pt	LPLAZTZX
Corvo AFIS	Aeroporto da ilha do Corvo Caminho dos Moinhos 9980-032 CORVO	+351 292590310	+351 292596170	cvuowsp@sata.pt	NIL
Graciosa AFIS	Aeroporto da Ilha da Graciosa Estrada do Aeroporto 9880-343 SANTA CRUZ DA GRACIOSA	+351 295730177	+351 295732203	lpgrdyda@sata.pt	NIL
Pico AFIS	Aeroporto Ilha do Pico Rua do Aeroporto 9950-011 BANDEIRAS	+351 292628387	+351 292622284	lppidyda@sata.pt	NIL
São Jorge AFIS	Aeroporto da Ilha de São Jorge Queimada 9800 VELAS	+351 295430367	+351 295412395	lpsjyda@sata.pt	NIL

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ENR 3.6 EN-ROUTE HOLDING**3.6.1 Lisboa and Santa Maria FIRs – Table of holding areas**

Frequencies corresponding to the Controlling Unit see ENR 2.1.

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD	Controlling unit and Frequency
1	2	3	4	5	6	7
ABUSU ABUSU 325201N0163808W (RDL031-DME08 FUN DVOR/DME)	211	RIGHT	230	3000 FT ALT FL 140	5 NM	Madeira TWR
ABUSU ABUSU 325201N0163808W (RDL031-DME08 FUN DVOR/DME)	211	RIGHT	280	FL 150 FL 999	11 NM	Lisboa ACC
ADNOV ADNOV 413106N0084511W RDL350-DME15 PRT DVOR/DME	170	RIGHT	230	4000 FT ALT FL 140	5 NM	Porto TWR
ADNOV ADNOV 413106N0084511W RDL350-DME15 PRT DVOR/DME	170	RIGHT	240	FL 150 FL 240	9.5 NM	Porto TWR
ADNOV ADNOV 413106N0084511W	170	RIGHT	230	4000 FT ALT FL 140	1 MIN	RNAV Porto TWR
ADNOV ADNOV 413106N0084511W	170	RIGHT	240	FL 150 FL 240	1.5 MIN	RNAV Porto TWR
ADSAD ADSAD 382841N0085852W RDL163-DME26 LIS DVOR/DME	343	RIGHT	230	4000 FT ALT FL 140	5 NM	Lisboa ACC
ADSAD ADSAD 382841N0085852W RDL163-DME26 LIS DVOR/DME	343	RIGHT	230	FL 150 FL 200	8 NM	Lisboa ACC
AGUVO AGUVO 391619N0080828W RDL066-DME53 LIS DVOR/DME	246	LEFT	230	FL 070 FL 140	5 NM	Lisboa ACC Note: Pending on military activity

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	Controlling unit and Frequency
1	2	3	4	5	6	7
AGUVO AGUVO 391619N0080828W RDL066-DME53 LIS DVOR/DME	246	LEFT	230	FL 150 FL 200	8 NM	Lisboa ACC Note: Pending on military activity
AKULU AKULU 405903N0083643W RDL171-DME17.7 PRT DVOR/DME	351	LEFT	230	4000 FT ALT FL 140	5 NM	Porto TWR
AKULU AKULU 405903N0083643W RDL171-DME17.7 PRT DVOR/DME	351	LEFT	240	FL 150 FL 240	9.5 NM	Porto TWR
AKULU AKULU 405903N0083643W	351	LEFT	230	4000 FT ALT FL 140	1 MIN	RNAV Porto TWR
AKULU AKULU 405903N0083643W	351	LEFT	240	FL 150 FL 240	1.5 MIN	RNAV Porto TWR
ARRUDA/LAR ARRUDA NDB 385940N0090225W	205	RIGHT	230	4000 FT ALT FL 080	1 MIN	Lisboa ACC
ATMIS ATMIS 380222N0100010W RDL241-DME45 ESP DVOR/DME	061	RIGHT	230	FL 150 FL 200	8 NM	Lisboa ACC
ATMIS ATMIS 380222N0100010W RDL241-DME45 ESP DVOR/DME	061	RIGHT	265	FL 210 FL 280	11 NM	Lisboa ACC
BADUM BADUM 394317N0084730W	214	RIGHT	230	FL 100 FL 140	1 MIN	RNAV Lisboa ACC Note: Pending on military activity.
BADUM BADUM 394317N0084730W	214	RIGHT	240	FL 150 FL 240	1.5 MIN	RNAV Lisboa ACC Note: Pending on military activity.
CUDLY CUDLY 383200N0265026W	329	RIGHT	265	FL 060 FL 140	7 NM	Lajes APP
DEVAN DEVAN 385028N 0272341W	061	LEFT	250	5000 FT ALT FL 140	1 MIN	RNP APCH Lajes APP
DIVUT DIVUT 410143N0081933W RDL133-DME22 PRT DVOR/DME	313	LEFT	230	FL 080 FL 140	5 NM	Porto TWR

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	Controlling unit and Frequency
1	2	3	4	5	6	7
DIVUT DIVUT 410143N0081933W RDL133-DME22 PRT DVOR/DME	313	LEFT	240	FL 150 FL 240	9.5 NM	Porto TWR
EKMAR EKMAR 383327N0093117W RDL222-DME26 LIS DVOR/DME	042	LEFT	230	3000 FT ALT FL 140	5 NM	Lisboa ACC
EKMAR EKMAR 383327N0093117W RDL222-DME26 LIS DVOR/DME	042	LEFT	230	FL 150 FL 200	8 NM	Lisboa ACC
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030	RIGHT	200	3000 FT ALT FL 080	1 MIN	Lisboa ACC
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030	RIGHT	230	FL 090 FL 140	1 MIN	Lisboa ACC
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030	RIGHT	280	FL 150 FL 999	1.5 MIN	Lisboa ACC
ETUGO ETUGO 385224N0101404W RDL271-DME50 LIS DVOR/DME	091	RIGHT	230	FL 150 FL 200	8 NM	Lisboa ACC
ETUGO ETUGO 385224N0101404W RDL271-DME50 LIS DVOR/DME	091	RIGHT	265	FL 210 FL 280	11 NM	Lisboa ACC
EVORA/EVR EVORA L 383147N0075331W	011	LEFT	170	2600 FT ALT 4600 FT ALT	2.5 MIN	Beja TWR
FARO/VFA FARO DVOR/DME 370049N0075830W	282	LEFT	230	3000 FT ALT FL 140	1 MIN	Faro TWR
FARO/VFA FARO DVOR/DME 370049N0075830W	102	RIGHT	230	3000 FT ALT FL 140	1 MIN	Faro TWR
FARO/VFA FARO DVOR/DME 370049N0075830W	282	LEFT	280	FL 150 FL 999	1.5 MIN	Lisboa ACC
FARO/VFA FARO DVOR/DME 370049N0075830W	102	RIGHT	280	FL 150 FL 999	1.5 MIN	Lisboa ACC
FATIMA/FTM FATIMA DVOR/DME 393956N0082934W	219	LEFT	230	FL 100 FL 140	1 MIN	Lisboa ACC Note: Pending on military activity.

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	Controlling unit and Frequency
1	2	3	4	5	6	7
FATIMA/FTM FATIMA DVOR/DME 393956N0082934W	219	LEFT	240	FL 150 FL 240	1.5 MIN	Lisboa ACC Note: Pending on military activity.
FUSUL FUSUL 323605N0163943W RDL170-DME09 FUN DVOR/DME	350	LEFT	230	4000 FT ALT FL 140	5 NM	Madeira TWR
FUSUL FUSUL 323605N0163943W RDL170-DME09 FUN DVOR/DME	350	LEFT	280	FL 150 FL 999	12 NM	Lisboa ACC
GEBTI GEBTI 365906N0074109W RDL098-DME14 VFA DVOR/DME	278	LEFT	230	3000 FT ALT FL 140	5 NM	Faro TWR
GENRO GENRO 371135N0073653W	167	RIGHT	230	4000 FT ALT FL 140	1 MIN	RNAV Faro TWR
GIMAL GIMAL 364552N0080021W RDL187-DME15 VFA DVOR/DME	007	RIGHT	230	3000 FT ALT FL 140	5 NM	Faro TWR
GIMAL GIMAL 364552N0080021W RDL187-DME15 VFA DVOR/DME	007	RIGHT	265	FL 150 FL 220	10 NM	Lisboa ACC
GIRIX GIRIX 371234N0251311W RDL357-DME15 VSM VOR/DME	177	RIGHT	230	3500 FT ALT FL 140	5 NM	Santa Maria OAC
GRACIOSA/GC GRACIOSA L 390538N0280151W	081	LEFT	170	3000 FT ALT FL 090	1 MIN	Lajes APP
GOXAS GOXAS 383641N0275153W RDL121-DME13 VAP DVOR/DME	301	RIGHT	230	5000 FT ALT FL 140	5 NM	Horta TWR
GOXAS GOXAS 383641N0275153W	301	RIGHT	230	5000 FT ALT FL 140	1 MIN	RNAV Horta TWR
HORTA/HT HORTA L 383112N0283746W	055	LEFT	230	5000 FT ALT FL 140	1 MIN	Horta TWR
HORTA/HT HORTA L 383112N0283746W	055	LEFT	280	FL 150 FL 999	1.5 MIN	Santa Maria OAC

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	Controlling unit and Frequency
1	2	3	4	5	6	7
HORTA/VFL HORTA DVORTAC 383110N0283725W	055	LEFT	280	FL 150 FL 999	1.5 MIN	Santa Maria OAC
HORTA/VFL HORTA DVORTAC 383110N0283725W	055	LEFT	230	5000 FT ALT FL 140	1 MIN	Horta TWR
HR401 HR401 382323N0284826W	309	LEFT	230	FL 140 2100 FT ALT	1 MIN	RNAV Horta TWR
HR456 HR456 383522N0290021W	154	RIGHT	230	FL 140 2100 FT ALT	1 MIN	RNAV Horta TWR
HR560 HR560 382146N0284650W	099	RIGHT	230	FL 140 2100 FT ALT	1 MIN	RNAV Horta TWR
IXUVA IXUVA 411104N0095109W RDL266-DME53 PRT DVOR/DME	086	RIGHT	265	FL 150 FL 280	11 NM	Lisboa ACC
KOGON KOGON 385959N0271923W	153	RIGHT	265	FL 060 FL 160	7 NM	Lajes APP
LAJES/LM LAJES VOR 384702N0270616W	134	LEFT	230	4700FT ALT FL 140	1 MIN	Lajes APP
LACTA LACTA 385929N0272012W RDL329-LM VOR DME18-TRM TACAN	149	LEFT	N/A	N/A	5 NM	Lajes APP
LAPPA LAPPA 331745N0162131W	182	LEFT	230	3000 FT ALT FL 140	1 MIN	RNAV Madeira TWR
LAPPA LAPPA 331745N0162131W	182	LEFT	240	FL 150 FL 240	1.5 MIN	RNAV Madeira TWR
LIZHA LIZHA 383125N 0270344W	061	RIGHT	250	5000 FT ALT FL 090	1 MIN	RNP APCH Lajes APP
MARCU MARCU 325104N0162028W	002	RIGHT	230	3000 FT ALT FL 140	1 MIN	RNAV Madeira TWR
MARCU MARCU 325104N0162028W	002	RIGHT	240	FL 150 FL 240	1.5 MIN	RNAV Madeira TWR
MONEC MONEC 322723N0164949W	025	LEFT	230	3000 FT ALT FL 100	1 MIN	RNAV Madeira TWR
NOKSO NOKSO 370502N0085647W	098	RIGHT	230	FL 100 FL 140	1 MIN	RNAV Faro TWR

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	Controlling unit and Frequency
1	2	3	4	5	6	7
OBUDA OBUDA 390649N0310158W RDL170-DME22 FRS DVOR/DME	350	RIGHT	240	FL 140 4500 FT ALT	4 NM	Santa Maria OAC
ODAKI ODAKI 383016N 0264923W	331	RIGHT	230	5000 FT ALT FL 090	1 MIN	RNP APCH Lajes APP
PESEX PESEX 383532N0091413W	025	RIGHT	200	4000 FT ALT FL 090	1 MIN	RNAV Lisboa ACC
PETUD PETUD 372955N0254820W RDL192-DME21 VMG DVOR/DME	012	RIGHT	230	3000 FT ALT FL 140	5 NM	Ponta Delgada TWR
PETUD PETUD 372955N0254820W	013	RIGHT	230	3000 FT ALT FL 140	1 MIN	RNAV Ponta Delgada TWR
PILIM PILIM 325115N0163529W	227	RIGHT	230	3000 FT ALT FL 100	1 MIN	RNAV Madeira TWR
PIKIX PIKIX 384639N0283202W RDL301-DME20 VAP DVOR/DME	121	LEFT	230	5000 FT ALT FL 140	5 NM	Horta TWR
PIKIX PIKIX 384639N0283202W	121	LEFT	230	5000 FT ALT FL 140	1 MIN	RNAV Horta TWR
PINIM PINIM 385503N0092031W	113	RIGHT	230	FL 070 FL 140	1 MIN	Lisboa ACC
PONTA DELGADA/PD PONTA DELGADA L 374406N0254030W	135	RIGHT	230	4800 FT ALT FL 140	1 MIN	Ponta Delgada TWR
PORTO/PRT PORTO DVOR/DME 411623N0084116W	171	RIGHT	230	4000 FT ALT FL 140	1 MIN	Porto TWR
PORTO/PRT PORTO DVOR/DME 411623N0084116W	171	RIGHT	240	FL 150 FL 240	1.5 MIN	Porto TWR
PORTO/PRT PORTO DVOR/DME 411623N0084116W	171	RIGHT	280	FL 250 FL 280	11 NM	Lisboa ACC
RETMO RETMO 411340N0090050W RDL262-D15 PRT DVOR/DME	082	RIGHT	230	FL060 FL140	5 NM	Porto TWR

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	Controlling unit and Frequency
1	2	3	4	5	6	7
RETMO RETMO 411340N0090050W RDL262-D15 PRT DVOR/DME	082	RIGHT	240	FL150 FL240	9.5 NM	Porto TWR
RETMO RETMO 411340N0090050W	082	RIGHT	230	FL060 FL140	1 MIN	RNAV Porto TWR
RETMO RETMO 411340N0090050W	082	RIGHT	240	FL150 FL240	1.5 MIN	RNAV Porto TWR
ROKAP ROKAP 384410N0094326W RDL271-DME17 CAS DVOR/DME	091	RIGHT	230	2000 FT ALT 4000 FT ALT	5 NM	Lisboa ACC
RINOR RINOR 391237N0084728W	224	LEFT	230	FL 070 FL 140	1 MIN	RNAV Lisboa ACC Note: Landing LPPT RWY 20. In turbulence conditions there is no protection with military area.
RINOR RINOR 391237N0084728W	224	LEFT	230	FL 150 FL 200	1.5 MIN	RNAV Lisboa ACC Note: Landing LPPT RWY 20. In turbulence conditions there is no protection with military area.
SAGRES/SGR SAGRES DVOR/DME 370502N0085647W	098	RIGHT	230	FL 100 FL 140	1 MIN	Faro TWR
SANTA MARIA/VSM SANTA MARIA VOR/DME 365746N0250959W	202	RIGHT	230	3500 FT ALT FL 140	1 MIN	Santa Maria OAC
SANTA MARIA/VSM SANTA MARIA VOR/DME 365746N0250959W	334	LEFT	230	3500 FT ALT FL 140	1 MIN	Santa Maria OAC
SANTA MARIA/VSM SANTA MARIA VOR/DME 365746N0250959W	334	LEFT	280	FL 150 FL 999	1.5 MIN	Santa Maria OAC
SAO MIGUEL/VMG SAO MIGUEL DVOR/DME 375046N0254529W	156	LEFT	230	5500 FT ALT FL 140	1 MIN	Ponta Delgada TWR
SAO MIGUEL/VMG SAO MIGUEL DVOR/DME 375046N0254529W	156	LEFT	280	FL 150 FL 999	1.5 MIN	Santa Maria OAC
SM700 SM700 375500N0261527W	118	RIGHT	230	4500 FT ALT FL 140	1 MIN	RNAV Ponta Delgada TWR
SM800 SM800 380411N0260847W	146	LEFT	230	4500 FT ALT FL 140	1 MIN	RNAV Ponta Delgada TWR
SM900 SM900 375551N0253635W	276	RIGHT	230	4500 FT ALT FL 140	1 MIN	RNAV Ponta Delgada TWR

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	Controlling unit and Frequency
1	2	3	4	5	6	7
SOLGI SOLGI 383730N0280158W	266	RIGHT	230	5000 FT ALT FL 140	1 MIN	RNAV Horta TWR
SOLGI SOLGI 383730N0280158W RDL086-DME 28.5 VFL DVORTAC	266	RIGHT	230	5000 FT ALT FL 140	5 NM	Horta TWR
TUSEX TUSEX 374925N0260535W RDL 271-DME16 VMG DVOR/DME	091	RIGHT	230	4500 FT ALT FL 140	5 NM	Ponta Delgada TWR
TUSEX TUSEX 374925N0260535W	092	RIGHT	230	4500 FT ALT FL 140	1 MIN	RNAV Ponta Delgada TWR
ULVAX ULVAX 410015N0075004W RDL009-DME 17 VIS DVOR/DME	009	LEFT	170	7000 FT ALT FL 140	5 NM	Lisboa ACC
UMUPI UMUPI 391516N0091019W RDL001-DME22 LIS DVOR/DME	181	RIGHT	230	FL 070 FL 140	5 NM	Lisboa ACC Note: Pending on military activity.
UMUPI UMUPI 391516N0091019W RDL001-DME22 LIS DVOR/DME	181	RIGHT	230	FL 150 FL 200	8 NM	Lisboa ACC Note: Pending on military activity.
UPKAT UPKAT 385759N0090212W	205	LEFT	200	4000 FT ALT FL 090	1 MIN	RNAV Lisboa ACC
UPZET UPZET 390038N 0270751W	241	RIGHT	250	5000 FT ALT FL 140	1 MIN	RNP APCH Lajes APP
URATU URATU 364146N0250914W RDL185-DME16 VSM VOR/DME	005	RIGHT	230	3500 FT ALT FL 140	5 NM	Santa Maria OAC
USALU USALU 371320N0081801W RDL310-DME20 VFA DVOR/DME	130	RIGHT	230	5000 FT ALT FL 140	5 NM	Faro TWR
USALU USALU 371320N0081801W RDL310-DME20 VFA DVOR/DME	130	RIGHT	240	FL 150 FL 200	8.5 NM	Lisboa ACC

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	Controlling unit and Frequency
1	2	3	4	5	6	7
USALU USALU 371320N0081801W RDL310-DME20 VFA DVOR/DME	130	RIGHT	265	FL 210 FL 220	10 NM	Lisboa ACC
VASIP VASIP 413318N0082234W RDL041-DME22 PRT DVOR/DME	221	LEFT	230	FL 080 FL 140	8 NM	Porto TWR
VASIP VASIP 413318N0082234W RDL041-DME22 PRT DVOR/DME	221	LEFT	240	FL 150 FL 240	9.5 NM	Porto TWR
VELAS VELAS 383932N0282131W RDL065-DME15 VFL DVORTAC	245	RIGHT	230	5000 FT ALT FL 140	5 NM	Horta TWR
VELAS VELAS 383932N0282131W	245	RIGHT	220	5000 FT ALT FL 140	1 MIN	RNAV Horta TWR
VENOL VENOL 370424N0081524W RDL286-DME14 VFA DVOR/DME	106	RIGHT	230	3000 FT ALT FL 140	5 NM	Faro TWR
VIBOC VIBOC 390145N 0272218W	151	RIGHT	250	5000 FT ALT FL 140	1 MIN	RNP APCH Lajes APP
XETOS XETOS 384132N 0264742W	241	LEFT	250	5000 FT ALT FL 140	1 MIN	RNP APCH Lajes APP
XOGRA XOGRA 382412N0290117W RDL259-DME20 VFL DVORTAC	079	RIGHT	230	5000 FT ALT FL 140	5 NM	Horta TWR
XORVU XORVU 393750N0303907W RDL079-DME28 FRS DVOR/DME	259	RIGHT	170	4300 FT ALT FL 140	5 NM	Flores TWR
XUVAP XUVAP 373521N0251301W RDL127-DME30 VMG DVOR/DME	307	RIGHT	230	5500 FT ALT FL 140	5 NM	Ponta Delgada TWR
XUVAP XUVAP 373521N0251301W	307	RIGHT	230	5500 FT ALT FL 140	1 MIN	RNAV Ponta Delgada TWR

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	Controlling unit and Frequency
1	2	3	4	5	6	7
XUVAP XUVAP 373521N0251301W RDL127-DME30 VMG DVOR/DME	307	RIGHT	280	FL 150 FL 999	12 NM	Santa Maria OAC

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
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
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. 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

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage Legend for FRA Relevance: (E) Horizontal entry point; (X) Horizontal exit point; (I) Intermediate point; (A) Arrival connecting point; (D) Departure connection point.
1	2	3	4
ABALO	321952N 0180749W	UM190, UQ11, UZ220, Z220	FRA (EX) / LISBOA / SANTA MARIA FIR BDRY
ABETO	402547N 0080323W	UN726, UN872	FRA (I) / NIL
ABLEG	404322N 0082552W	N/A	FRA (IA) / PORTO TMA, ENTRY STAR LPPR
ABRAT	394918N 0073915W	UN745	FRA (I) / NIL
ABRIL	402346N 0083449W	N/A	NIL / NIL
ABUPI	414504N 0071410W	UN872	FRA (E) / TCP MADRID / LISBOA ACC, Above FL245
ABUSU	325201N 0163808W	N/A	FRA (I) / MADEIRA TMA, Holding Pattern, MADEIRA CONTINGENCY
ADILI	355800N 0093422W	N/A	NIL / LISBOA / CASABLANCA FIR BDRY
ADINO	400104N 0062225W	N/A	FRA (E) / LECM FIR TCP MADRID / LISBOA ACC, Above FL245
ADNOV	413106N 0084511W	N/A	FRA (I) / PORTO TMA, Holding Pattern
ADORO	412859N 0061648W	A43, UL155	FRA (EX) / LISBOA / MADRID FIR BDRY
ADSAD	382841N 0085852W	N/A	FRA (I) / LISBOA TMA, Holding Pattern
ADSOL	375731N 0260436W	N/A	NIL / NIL
AGADO	415222N 0085536W	UN729, UN866	FRA (EX) / MADRID / LISBOA FIR BDRY
AGUVO	391619N 0080828W	N/A	FRA (I) / LISBOA TMA, Holding Pattern
AIREZ	392717N 0083958W	N/A	FRA (I) / NIL
AKABO	411919N 0084203W	N/A	FRA (I) / NIL
AKUDA	355800N 0085700W	UN858, UZ1, W13	FRA (E) / LISBOA / CASABLANCA FIR BDRY
AKULU	405903N 0083643W	N/A	FRA (I) / PORTO TMA, Holding Pattern
ALAGU	380519N 0073652W	A44, UL14, UM744, UN979, UZ222, W13, Z222	FRA (IAD) / FARO TMA, EXIT SID, ENTRY STAR LPFR
ALAMA	391324N 0083300W	N/A	FRA (I) / NIL

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage Legend for FRA Relevance: (E) Horizontal entry point; (X) Horizontal exit point; (I) Intermediate point; (A) Arrival connecting point; (D) Departure connection point.
1	2	3	4
AMIXI	372842N 0253036W	H100	NIL / SANTA MARIA TMA ENTRY STAR LPAZ, LPPD
AMSEL	355800N 0075300W	R72, UP600	FRA (EXD) / LISBOA / CASABLANCA FIR BDRY EXIT SID LPFR
AMZIC	322058N 0160406W	N/A	NIL / MADEIRA CONTINGENCY
ANAVA	395358N 0252432W	H122	NIL / NIL
ARDID	411024N 0061656W	N/A	FRA (E) / LECM FIR TCP MADRID/ LISBOA ACC, Above FL245
ARMED	423000N 0140000W	T12, UZ29	FRA (EX) / LISBOA / SANTA MARIA FIR BDRY
ASGAM	350000N 0124242W	N/A	FRA (EX) / LISBOA / CASABLANCA FIR BDRY
ASMAR	392221N 0113544W	R1, T12, UN741, UN981, UZ8	FRA (I) / NIL
ASMOV	405810N 0092049W	N/A	FRA (IAD) / EXIT SID, ENTRY STAR LPPR
ASPEX	381911N 0280929W	H101	NIL / SANTA MARIA TMA, ENTRY STAR LPHR
ASPOR	414855N 0080452W	UT3	FRA (EA) / MADRID / LISBOA FIR BDRY ENTRY STAR LPPR
ATECA	383930N 0083721W	A975, UN975, UZ218	FRA (I) / NIL
ATMIS	380222N 0100010W	N/A	FRA (I) / LISBOA TMA, Holding Pattern
BABEX	410225N 0070502W	UN976, UZ15, UZ218	FRA (I) / NIL
BABOV	395235N 0065225W	N/A	FRA (I) / NIL
BADUM	394317N 0084730W	N/A	NIL / LISBOA TMA, Holding Pattern
BALNO	414350N 0065854W	N/A	FRA (X) / TCP MADRID / LISBOA ACC, Above FL245
BAMUX	231318N 0263229W	N/A	NIL / SANTA MARIA / SAL FIR BDRY
BANAL	420000N 0150000W	UZ28	FRA (EX) / LISBOA / SANTA MARIA FIR BDRY
BANIX	382420N 0280647W	H114	NIL / NIL
BARDI	403501N 0061809W	N/A	FRA (EX) / TCP MADRID / LISBOA ACC, Above FL245
BAROK	355800N 0100124W	UN873, UZ218, UZ4, W8	FRA (EXD) / LISBOA / CASABLANCA FIR BDRY EXIT SID LPFR

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage Legend for FRA Relevance: (E) Horizontal entry point; (X) Horizontal exit point; (I) Intermediate point; (A) Arrival connecting point; (D) Departure connection point.
1	2	3	4
BATAX	414202N 0063719W	UZ218	FRA (E) / TCP MADRID / LISBOA ACC, Above FL245
BAVAS	390000N 0234042W	H112, H121	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPPD
BEKUN	375654N 0231405W	H102, H111	NIL / SANTA MARIA TMA EXIT SID LPAZ, LPPD ENTRY STAR LPAZ, LPPD
BELDU	412131N 0074638W	A43, UL155	FRA (ID) / PORTO TMA, EXIT SID LPPR
BEXAL	355800N 0112654W	G52, UN866, UN872, UZ18, UZ223	FRA (EX) / LISBOA / CASABLANCA FIR BDRY
BIGPI	315707N 0171456W	N/A	NIL / MADEIRA CONTINGENCY
BIMBO	312517N 0160158W	B18, UN729, UN745, UN981, UZ9	FRA (EA) / CANARIAS / LISBOA FIR BDRY ENTRY STAR LPMA
BIRBA	390620N 0073043W	A975, UN873, UN975, UZ15, UZ222	FRA (I) / NIL
BOMKO	385713N 0090237W	N/A	NIL / LISBOA TMA
BUGID	382823N 0092658W	N/A	FRA (I) / NIL
BURAG	315114N 0160651W	N/A	NIL / MADEIRA CONTINGENCY
BUSEN	383242N 010000W	A44,UM744, UN870, UZ21, UZ22	FRA (IAD) / LISBOA TMA, EXIT SID, ENTRY STAR LPPT
CANAR	412309N 0072811W	A43, G41, UL155, UN872	FRA (I) / NIL
CEFOX	383306N 0092410W	N/A	NIL / NIL
CIDLO	381121.02N 0264418.44W	H115	NIL / NIL
CUDLY	383200N 0265026W	N/A	NIL / NIL
DEGUN	332507N 0153930W	UQ11, UZ11, UZ13, UZ225	FRA (ID) / MADEIRA TMA, EXIT SID LPMA LPPS
DEKUS	380055N 010000W	UN745	NIL / NIL
DEMOS	415533N 0092143W	R1, UN728, UN741	FRA (EX) / MADRID / LISBOA FIR BDRY
DEMZO	331348N 0171528W	N/A	NIL / MADEIRA CONTINGENCY
DETOX	410000N 015000W	UM191	FRA (EX) / LISBOA / SANTA MARIA FIR BDRY
DEVAN	385028N 0272341W	N/A	NIL / LPLA Holding Pattern
DIDIT	411912N 0113418W	UZ28	FRA (I) / NIL

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage Legend for FRA Relevance: (E) Horizontal entry point; (X) Horizontal exit point; (I) Intermediate point; (A) Arrival connecting point; (D) Departure connection point.
1	2	3	4
DIGAL	394427N 0075923W	UN726, UZ218, UZ222	FRA (I) / NIL
DIKMO	404324N 0075309W	N/A	NIL / NIL
DIKUV	361054N 0124502W	N/A	NIL / MADEIRA CONTINGENCY
DIRMA	405106N 0093003W	B47, G414, UM191, UZ23, UZ25, UZ28, UZ29	FRA (I) / NIL
DIRUP	313009N 0165942W	N/A	NIL / CANARIAS / LISBOA FIR BDRY
DIVUT	410143N 0081933W	N/A	FRA (I) / PORTO TMA Holding Pattern
DOKAS	371357N 0232152W	H103	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPAZ
DOLER	391605N 0262248W	H122	NIL / SANTA MARIA TMA EXIT SID, LPLA
DONOC	331326N 0162121W	N/A	NIL / NIL
EKMAR	383327N 0093117W	Y207	FRA (I) / LISBOA TMA, Holding Pattern
EKNOT	321035N 0161745W	N/A	FRA (IA) / MADEIRA TMA, ENTRY STAR LPPS LPMA
EKNUT	204441N 0391449W	N/A	NIL SANTA MARIA / PIARCO FIR BDRY
EKROL	420000N 0153500W	T16	NIL / NIL
ELBEN	384210N 0281612W	H115	NIL / NIL
ELBIM	330629N 0170703W	N/A	NIL / MADEIRA CONTINGENCY
ELDUK	374840N 0075626W	R72, UN726	FRA (I) / NIL
ELGIX	413116N 0074023W	N/A	FRA (IA) / PORTO TMA, ENTRY STAR LPPR
ELVAR	391310N 0071324W	A975, UL14, UN975, UN979, UZ219, Z219	FRA (I) / MADRID / LISBOA FIR BDRY
EPAKA	334352N 0160730W	N/A	NIL / MADEIRA CONTINGENCY
EPODI	385522N 0271535W	N/A	NIL / NIL
EPOPO	415613N 0101213W	N/A	FRA (I) / NIL
ERANO	381046N 0281900W	N/A	NIL / ENTRY STAR LPHR
ERNEK	202542N 0314314W	N/A	NIL / SANTA MARIA / SAL FIR BDRY

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1	2	3	4
ERPES	400000N 0150000W	UZ22, UZ25	FRA (EX) / LISBOA / SANTA MARIA FIR BDRY
ERTIS	372500N 0073653W	UZ222, Y105, Z222	FRA (I) / NIL
ERUKU	384733N 0085859W	N/A	NIL / LISBOA TMA
ETAKA	414721N 0074348W	N/A	FRA (E) / TCP MADRID / LISBOA ACC, Above FL245
ETROX	362409N 0240128W	H104	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPAZ
ETUGO	385224N 0101404W	N/A	FRA (I) / Holding Pattern
EVGOT	325504N 0162038W	N/A	NIL / NIL
EVURA	383954N 0075507W	R72, UN726, UN873	FRA (ID) / FARO TMA, EXIT SID LPFR
EXODO	334528N 0161910W	N/A	NIL / MADEIRA CONTINGENCY
EXONA	385416N 0080100W	UZ227, Z227	FRA (IAD) / LISBOA TMA, EXIT SID, ENTRY STAR LPPT
FAGUT	320633N 0162818W	G851	FRA (ID) / MADEIRA TMA, EXIT SID LPPS
FUSUL	323605N 0163943W	N/A	FRA (I) / MADEIRA TMA, Holding Pattern
GAIOS	381632N 0083235W	A44	FRA (IAD) / LISBOA TMA, EXIT SID, ENTRY STAR LPPT
GALUZ	330201N 0172514W	N/A	FRA (ID) / MADEIRA TMA, EXIT SID LPMA
GALPA	342353N 0144349W	UN728, UN745, UN975	FRA (I) / NIL
GANBA	411623N 0090345W	N/A	FRA (I) / NIL
GANSU	380000N 0094903W	B18, UN975, UZ18	FRA (ID) / LISBOA TMA, EXIT SID LPPT
GEBTI	365906N 0074109W	N/A	FRA (I) / FARO TMA, Holding Pattern
GENRO	371135N 0073653W	Y105, Y136	FRA (IA) / FARO TMA, Holding Pattern, ENTRY STAR LPFR
GIKAR	340958N 0140148W	UQ11, UZ9	FRA (I) / NIL
GIMAL	364552N 0080021W	Y103	FRA (IAD) FARO TMA, Holding Pattern EXIT SID, ENTRY STAR LPFR
GINSU	361733N 0273852W	H105	NIL / SANTA MARIA TMA, EXIT SID. ENTRY STAR LPAZ
GIRIX	371234N 0251311W	N/A	NIL / SANTA MARIA TMA, Holding Pattern

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1	2	3	4
GOBEG	290000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
GODGI	382527N 0091108W	N/A	FRA (I) / NIL
GOMOS	370048N 0300326W	H106	NIL / SANTA MARIA TMA, EXIT SID, ENTRY STAR LPAZ
GONAN	450000N 0140000W	T16	NIL / SANTA MARIA / SHANWICK FIR BDRY
GOSGA	320456N 0163752W	N/A	FRA (ID) / MADEIRA TMA, EXIT SID LPMA
GOXAS	383641N 0275153W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
GUDAV	383902N 0083500W	N/A	FRA (I) / NIL
GUNTI	390000N 0150000W	UZ21, UZ23, T25	FRA (EX) / LISBOA / SANTA MARIA FIR BDRY
HIDRA	443000N 0130000W	UN733, UP176	NIL / MADRID / SANTA MARIA FIR BDRY
IBBAN	332035N 0170832W	N/A,	FRA (IA) / MADEIRA TMA, ENTRY STAR LPMA
IBERO	412044N 0075511W	A43, UL155	FRA (I) / NIL
IBIDO	405305N 0101112W	UM191, UN728	FRA (I) / NIL
IDBID	391642N 0080100W	N/A	FRA (IAD) / LISBOA TMA, EXIT SID, ENTRY STAR LPPT
IDLIP	370049N 0075830W	N/A	FRA (I) / NIL
IDREL	342030N 0161730W	N/A	NIL / MADEIRA CONTINGENCY
ILCAT	332603N 0170254W	W3, UL600	FRA (IAD)/ MADEIRA TMA, EXIT SID, ENTRY STAR LPSS
IMILE	384701N 0270649W	N/A	NIL / NIL
INBOM	400007N 0081807W	UZ226, Z226	FRA (IAD) / LISBOA TMA, EXIT SID, ENTRY STAR LPPT
INBOX	382206N 0332149W	H131	NIL / NIL
INBUL	382943N 0300000W	H131	NIL / NIL
INKIT	411049N 0075327W	N/A	FRA (IA) / PORTO TMA, ENTRY STAR LPPR
INPIR	383624N 0265545W	N/A	NIL / NIL
INSAD	280000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
IPSIK	393353N 0075453W	N/A	NIL / NIL

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1	2	3	4
IPSIN	192214N 0383544W	N/A	NIL / SANTA MARIA / PIARCO FIR BDRY
IRKID	335530N 0180409W	UL600, W3	FRA (EXD) / LISBOA / SANTA MARIA FIR BDRY EXIT SID LPMA
IRSAN	331000N 0163016W	UL600, W3	FRA (I) / NIL
IXIDA	393918N 0080100W	N/A	FRA (ID) / LISBOA TMA, EXIT SID LPPT
IXIKU	270000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
IXOLI	365835N 0084206W	N/A	FRA (IAD) / FARO TMA, EXIT SID, ENTRY STAR LPFR
IXUVA	411104N 0095109W	N/A	FRA (I) / Holding Pattern
KEKOS	322657N 0161338W	B18	NIL / MADEIRA CONTINGENCY
KELIK	382931N 0090023W	N/A	NIL / LISBOA TMA
KETID	300000N 0200000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
KICAS	334502N 0162824W	N/A	FRA (IA) / MADEIRA TMA, ENTRY STAR LPPS LPMA
KOGON	385959N 0271923W	N/A	NIL / NIL
KOKER	395421N 0334402W	H142	NIL / NIL
KOLIT	403255N 0332321W	H141	NIL / NIL
KOMUT	380000N 0150000W	UM744	FRA (EX) / LISBOA / SANTA MARIA FIR BDRY
KOPAS	440000N 0130000W	UM440	NIL / MADRID / SANTA MARIA FIR BDRY
KUXOV	260000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
LACTA	385929N 0272012W	N/A	NIL / NIL
LADOX	385650N 0280116W	H124	NIL / NIL
LAMDI	391221N 0105754W	UN729	FRA (I) / NIL
LAPPA	331745N 0162131W	N/A	FRA (ID) / MADEIRA TMA, EXIT SID LPMA
LAPTU	250000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
LASIB	380215N 0071322W	UM744	FRA (EX) / TCP MADRID / LISBOA ACC, Above FL245
LATRU	370000N 0100000W	N/A	FRA (I) / NIL

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1	2	3	4
LAVPA	410012N 0090746W	N/A	FRA (I) / NIL
LENSI	390000N 0200000W	T25	NIL / NIL
LEPRU	320000N 0144804W	N/A	FRA (EX) / LISBOA / CASABLANCA FIR BDRY
LIDRO	334003N 0155659W	R1, UN741, UZ14	FRA (IA) / MADEIRA TMA ENTRY STAR LPMA LPPS
LIGRA	380000N 0093527W	G52, UN872	FRA (IAD) / LISBOA TMA, EXIT SID, ENTRY STAR LPPT
LISGU	385316N 0090946W	N/A	FRA (I) / NIL
LIZHA	383125N 0270344W	N/A	NIL / LPLA Holding Pattern
LUKAL	411511N 0322121W	H125	NIL / NIL
LUKAN	332828N 0145553W	N/A	NIL / MADEIRA CONTINGENCY
LUKIT	401149N 0300000W	H125	NIL / NIL
LULAS	405359N 0091652W	N/A	FRA (I) / NIL
LUPOV	420000N 0150500W	T13	NIL / NIL
LUTAK	370000N 0150000W	UN870	FRA (EX) LISBOA / SANTA MARIA FIR BDRY
MADAT	320943N 0170507W	R1	NIL / MADEIRA CONTINGENCY
MAGUM	391003N 0082333W	G52, UN745, UN870, UP600, UZ218, UZ7, W7	FRA (I) / NIL
MALIS	415120N 0073617W	G414, UT5	NIL / LISBOA / MADRID FIR BDRY PORTO TMA, ENTRY STAR LPPR
MANEL	383900N 0085650W	N/A	FRA (I) / NIL
MANIK	404131N 0083658W	A5, UP600	FRA (ID) / PORTO TMA, EXIT SID
MANOX	361140N 0152325W	T13	FRA (EX) LISBOA / SANTA MARIA FIR BDRY
MAPOR	413651N 0080330W	G414	FRA (I) / NIL
MARCU	325104N 0162028W	N/A	NIL / NIL
MARIM	372500N 0075028W	W13	FRA (IA) / FARO TMA, ENTRY STAR LPFR
MARUM	363720N 0132616W	UZ8	FRA (I) / NIL

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1	2	3	4
MASID	384451N 0270433W	N/A	NIL / NIL
MIMBO	413415N 0112238W	UZ29	FRA (I) / NIL
MINTA	370744N 0072300W	R47, UN747	FRA (EX) MADRID / LISBOA FIR BDRY
MIPRU	381625N 0262153W	H113	NIL / SANTA MARIA TMA, EXIT SID LPLA, LPPD ENTRY STAR LPPD
MOMAS	391909N 0080100W	UN870, UZ219, Z219	FRA (I) / NIL
MONEC	322723N 0164949W	N/A	NIL / NIL
MONUR	383830N 0085948W	N/A	FRA (I) / NIL
MORAS	390950N 0080107W	N/A	FRA (I) / NIL
MOSEN	414712N 0063339W	UZ218, Z406	NIL / MADRID / LISBOA FIR BDRY
MUDOS	433000N 0130000W	UN725,	NIL / MADRID / SANTA MARIA FIR BDRY
NAKOS	380000N 0092004W	UZ4, W8	FRA (IAD) / LISBOA TMA EXIT SID, ENTRY STAR LPPT
NARBO	420823N 0081342W	R72, UN726	NIL / MADRID / LISBOA FIR BDRY
NARTA	360323N 0123329W	B18, R47, UN745, UN747, UN975, UZ13, UZ14, UZ9	FRA (ID) / FARO TMA, EXIT SID LPFR
NASAS	361932N 0125824W	UN729	FRA (I) / NIL
NAVIX	353114N 0161404W	T16, UZ225	FRA (EX) LISBOA / SANTA MARIA FIR BDRY
NAVPO	373716N 0251859W	N/A	NIL / SANTA MARIA TMA
NEGRI	385243N 0132416W	UZ21	FRA (I) / NIL
NELSO	314059N 0172725W	R1, UN741	FRA (X) / CANARIAS / LISBOA / SANTA MARIA FIR BDRY
NETOS	411827N 0061640W	N/A	NIL / NIL
NETVO	383824N 0091241W	N/A	NIL / LISBOA TMA
NEXUX	300000N 0210000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
NIDUL	322155N 0172111W	UZ220, Z220	FRA (IAD) / MADEIRA TMA EXIT SID, ENTRY STAR LPMA

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1	2	3	4
NILAV	450000N 0132500W	T13	NIL / SANTA MARIA / SHANWICK FIR BDRY
NILDA	384103N 0270035W	N/A	NIL / NIL
NINOS	410747N 0064638W	UN976	FRA (I) / MADRID UIR / LISBOA FIR BDRY
NIPRI	330000N 0140724W	N/A	FRA (EX) / LISBOA / CASABLANCA FIR BDRY
NIRAK	371445N 0072543W	Y136	FRA (EXAD) / MADRID / LISBOA FIR BDRY EXIT SID, ENTRY STAR LPFR
NOKSO	370502N 0085647W	N/A	FRA (I) / Faro TMA, Holding Pattern
NOTMA	384845N 0280322W	H153	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPHR
NUMGI	182750N 0381022W	N/A	NIL / SANTA MARIA / PIARCO FIR BDRY
OBESA	363926N 0141445W	UM190	FRA (I) / NIL
OBOLO	363153N 0080757W	UL14, UN858	FRA (I) / NIL
OBOMO	224315N 0273020W	N/A	NIL / SANTA MARIA FIR BDRY / SAL FIR
OBUDA	390649N 0310158W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
ODAKI	383016N 0264923W	N/A	NIL / LPLA Holding Pattern
ODEMI	372951N 0082302W	A5, Y101	FRA (IAD) / FARO TMA, EXIT SID, ENTRY STAR LPFR
ODLIX	384044N 0091902W	Y207	FRA (I) / NIL
ODPAK	380742N 0075536W	A44, R72, UM744, UN726, UN979, UZ7, UZ15	FRA (I) / NIL
OGDOR	340000N 0132538W	N/A	FRA (EX) LISBOA / CASABLANCA FIR BDRY
OGERO	394806N 0062402W	N/A	FRA (X) LECM FIR TCP MADRID / LISBOA ACC, Above FL245
OKNIB	384208N 0091043W	N/A	NIL / NIL
OLDEK	381856N 0282621W	N/A	NIL / NIL
OLGAR	391100N 0075611W	B60, R72	FRA (I) / NIL
OMOBI	375326N 0244846W	N/A	NIL / SANTA MARIA TMA
ORPIC	383514N 0280643W	N/A	NIL / SANTA MARIA TMA

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1	2	3	4
ORSOS	390000N 0101232W	UZ9	FRA (I) / NIL
ORTIS	312425N 0163325W	G851, UN728, UN975, UP47, UZ8	FRA (XD) / CANARIAS / LISBOA FIR BDRY EXIT SID LPMA
ORTOP	360136N 0072300W	A5, UN726	FRA (EXD) BDRY FIR MADRID / LISBOA EXIT SID LPFR
OSLAD	355800N 0081851W	R724, UL14	FRA (EXD) LISBOA / CASABLANCA FIR BDRY EXIT SID LPFR
OSLEV	300000N 0220000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
OTREG	411623N 0084116W	N/A	FRA (I) / NIL
OTZIL	330525N 0162102W	N/A	FRA (I) / NIL
OXFIN	383428N 0091802W	N/A	NIL / NIL
PARAV	405651N 0115124W	UM191	FRA (I) / NIL
PASAS	450000N 0130000W	N/A	NIL / MADRID / SHANWICK / SANTA MARIA FIR BDRY
PECKY	343149N 0152016W	R1, UN741, UN747	FRA (I) / NIL
PELUS	332643N 0170416W	UL600, UM190, UN747	FRA (I) / NIL
PESAS	370212N 0072300W	UN858	FRA (X) / MADRID / LISBOA FIR BDRY
PESEX	383532N 0091413W	N/A	NIL / LISBOA TMA, Holding Pattern
PESUL	405255N 0080654W	UN726, W2	FRA (IAD) / PORTO TMA EXIT SID, ENTRY STAR LPPR
PETEK	424044N 0120000W	N/A	FRA (EX) / MADRID / LISBOA FIR BDRY
PETUD	372955N 0254820W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
PEVAP	351449N 0144906W	N/A	NIL / MADEIRA CONTINGENCY
PIBIL	300000N 0230000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
PIGOR	392802N 0134917W	UZ22, UZ23	FRA (I) / NIL
PIKIX	384639N 0283202W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
PILIM	325115N 0163529W	N/A	FRA (ID) / MADEIRA TMA, EXIT SID LPPS

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1	2	3	4
PINEK	415104N 0083552W	UP600	FRA (EX) / TCP MADRID / LISBOA ACC, Above FL245
PINIM	385503N 0092031W	N/A	NIL / Holding Pattern
PINOX	401726N 0070633W	G52,UN745, UZ15	FRA (I) / NIL
PIREN	365000N 0072300W	UZ5, W1	FRA (EX) / LISBOA / MADRID FIR BDRY
PIXED	240000N 0250000W	N/A	NIL / CANARIAS / SAL / SANTA MARIA FIR BDRY
PODEL	373701N 0254159W	N/A	NIL / NIL
PORLI	393144N 0072159W	UN870, UZ15	FRA (I) / MADRID UIR / LISBOA FIR BDRY
PORTA	391948N 0071809W	B60,UN873	FRA (I) / MADRID UIR / LISBOA FIR BDRY
RAKOD	394651N 0063743W	N/A	FRA (I) / NIL
RAKUN	333325N 0154653W	B18	FRA (IA) / MADEIRA TMA, ENTRY STAR LPPS LPMA
RALUS	415612N 0070659W	UN872, Z406	NIL / MADRID UIR / LISBOA FIR BDRY
RARUR	393956N 0082934W	N/A	FRA (I) / NIL
REDSO	373853N 0254743W	N/A	NIL / NIL
REGLA	385119N 0260820W	H121	NIL / SANTA MARIA TMA, EXIT SID LPLA
RELVA	415110N 0083551W	A5	NIL / NIL
RETEN	430000N 0130000W	N/A	FRA (EX) / SANTA MARIA / LISBOA / MADRID FIR BDRY
RETMO	411340N 0090050W	N/A	FRA (I) / PORTO TMA, Holding Pattern
RIMIV	341016N 0153539W	N/A	NIL / MADEIRA CONTINGENCY
RINOR	391237N 0084728W	N/A	FRA (I) / LISBOA TMA, Holding Pattern
RIPEL	421659N 0104858W	UP47	FRA (EX) MADRID/LISBOA FIR BDRY
RIPOD	300000N 0240000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
RITUS	414925N 0081158W	UN726	FRA (E) / MADRID/LISBOA FIR BDRY
RIVRO	403722N 0064322W	B47, G52, UM191, UN745	FRA (I) / NIL
RODAP	393757N 0070355W	N/A	FRA (I) / NIL

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1	2	3	4
RODAS	374621N 0255934W	N/A	NIL / NIL
RODIL	380444N 0273624W	H101	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPAZ
ROKAP	384410N 0094326W	N/A	FRA (I) / LISBOA TMA, Holding Pattern
ROKOB	385111N 0090551W	N/A	NIL / LISBOA TMA
ROLAR	341241N 0151221W	UZ11, UZ14	FRA (I) / NIL
ROSAL	380117N 0070605W	A44, UM744, UZ227, Z227	NIL / MADRID/LISBOA FIR BDRY
RUKAV	221037N 0283217W	N/A	NIL / SANTA MARIA FIR BDRY / SAL FIR
RULET	341506N 0145456W	B18, UN745, UN975	FRA (I) / NIL
RUPEP	353219N 0154252W	N/A	NIL / MADEIRA CONTINGENCY
SIPRU	391048N 0275322W	H125	NIL / NIL
SOLGI	383730N 0280158W	H115, H123	NIL / SANTA MARIA TMA, Holding Pattern ENTRY STAR LPHR
SOMUL	381321N 0271901W	H114	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPPD
SONAP	363000N 0100000W	N/A	FRA (I) / NIL
SOPOP	402624N 0122312W	T12, UZ25	FRA (I) / NIL
SORAD	300000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
SOTEX	381734N 0081312W	UN873, UP600, UZ223, W7	FRA (IAD) / FARO TMA EXIT SID, ENTRY STAR LPFR
SUBAL	353247N 0121845W	N/A	FRA (EX) / LISBOA / CASABLANCA FIR BDRY
SUNES	371827N 0090000W	UN873	FRA (I) / NIL
SUPIK	375515N 0260334W	N/A	NIL / NIL
TABAX	380926N 0134457W	UM744	FRA (I) / NIL
TACAT	384537N 0270529W	N/A	NIL / LPLA Holding Pattern
TAGUX	385644N 0075451W	A975, R72, UN726, UN975	FRA (I) / NIL
TAKAV	355800N 0092219W	N/A	FRA (EX) / LISBOA / CASABLANCA FIR BDRY
TEGTO	205737N 0304617W	N/A	NIL / SANTA MARIA FIR BDRY / SAL FIR

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage Legend for FRA Relevance: (E) Horizontal entry point; (X) Horizontal exit point; (I) Intermediate point; (A) Arrival connecting point; (D) Departure connection point.
1	2	3	4
TELMU	353816N 0143150W	UN741, UP47	FRA (I) / NIL
TERVA	402500N 0093528W	N/A	FRA (I) / NIL
TIDVI	380727N 0260905W	N/A	NIL / NIL
TIGGI	355800N 0105608W	N/A	FRA (E) / LISBOA / CASABLANCA FIR BDRY
TIMTO	382316N 0271917W	H115	NIL / SANTA MARIA TMA, EXIT SID LPPD
TIRKO	385044N 0271042W	N/A	NIL / NIL
TORVU	343910N 0140013W	N/A	NIL / MADEIRA CONTINGENCY
TOSDI	405927N 0061719W	N/A	FRA (X) / LECM FIR, TCP MADRID / LISBOA ACC, Above FL245
TOVBA	412716N 0085852W	N/A	FRA (I) / NIL
TROIA	380424N 0085245W	A5	FRA (IAD) / LISBOA TMA, EXIT SID, ENTRY STAR LPPT
TUNAV	391854N 0112225W	UN728	FRA (I) / NIL
TUPIX	370434N 0072300W	N/A	FRA (EXAD) / MADRID / LISBOA FIR BDRY EXIT SID, ENTRY STAR LPFR
TURON	420405N 0083348W	A5, UP600	NIL / LISBOA/MADRID FIR BDRY EXIT SID, ENTRY STAR LPPR
TUSEX	374925N 0260535W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
TUTLO	170000N 0373000W	N/A	NIL / SANTA MARIA / PIARCO / SAL / DAKAR FIR BDRY
TUXIV	334314N 0173827W	N/A	NIL / MADEIRA CONTINGENCY
UBANI	413328N 0091422W	N/A	FRA (IAD) / EXIT SID, ENTRY STAR LPPR
UBESO	364451N 0074850W	N/A	FRA (I) / NIL
UDRUB	412527N 0084339W	N/A	FRA (I) / NIL
ULTEM	212946N 0294800W	N/A	NIL / SANTA MARIA / SAL FIR BDRY
ULVAX	410015N 0075004W	N/A	FRA (I) / LPVR Holding Pattern
UMUPI	391516N 0091019W	N/A	FRA (I) / LISBOA TMA, Holding Pattern
UNPOT	381046N 0100000W	N/A	FRA (IA) / LISBOA TMA, ENTRY STAR LPPT
UPKAT	385759N 0090212W	N/A	NIL / LISBOA TMA, Holding Pattern

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage Legend for FRA Relevance: (E) Horizontal entry point; (X) Horizontal exit point; (I) Intermediate point; (A) Arrival connecting point; (D) Departure connection point.
1	2	3	4
UPZET	390038N 0270751W	N/A	NIL / LPLA Holding Pattern
URATU	364146N 0250914W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
URED	395135N 0062336W	N/A	FRA (X) LECM FIR TCP MADRID / LISBOA ACC, Above FL245
USALU	371320N 0081801W	Y101, Y102	FRA (IA) / FARO TMA, Holding Pattern, ENTRY STAR LPFR
USIVI	394147N 0081241W	N/A	FRA (I) / NIL
VABEM	363257N 0131922W	UN728, UN981	FRA (I) / NIL
VAGAR	383007N 0092956W	N/A	FRA (I) / NIL
VASIP	413318N 0082234W	N/A	FRA (I) / PORTO TMA, Holding Pattern
VEDEL	395127N 0124012W	UZ23	FRA (I) / NIL
VELAS	383932N 0282131W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
VENOL	370424N 0081524W	N/A	FRA (I) / FARO TMA, Holding Pattern
VEPOP	192203N 0333403W	N/A	NIL / SANTA MARIA / SAL FIR BDRY
VERAM	364621N 0134031W	R1, UN741, UZ11	FRA (I) / NIL
VIBOC	390145N 0272218W	N/A	NIL / LPLA Holding Pattern
VOROC	384702N 0270616W	N/A	NIL / LPLA Holding Pattern
XAMAX	400152N 0083210W	A5	FRA (IA) / LISBOA TMA, ENTRY STAR LPPT
XANEL	392411N 0121213W	UM190	FRA (I) / NIL
XAPAS	373550N 0075700W	R72, Y102	FRA (ID) / FARO TMA, EXIT SID LPFR
XAPIM	410441N 0083812W	N/A	FRA (I) / NIL
XEGEN	321859N 0160058W	N/A	NIL / MADEIRA CONTINGENCY
XERES	420126N 0100405W	UM190, UN981	FRA (EX) MADRID / LISBOA FIR BDRY
XERON	322253N 0165637W	N/A	NIL / MADEIRA CONTINGENCY
XETOS	384132N 0264754W	N/A	NIL / LPLA Holding Pattern
XIBOT	181515N 0352648W	N/A	NIL / SANTA MARIA / SAL FIR BDRY

Name-code designator	Coordinates	ATS route or other route	Remarks / Usage Legend for FRA Relevance: (E) Horizontal entry point; (X) Horizontal exit point; (I) Intermediate point; (A) Arrival connecting point; (D) Departure connection point.
1	2	3	4
XOGRA	382412N 0290117W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
XORVU	393750N 0303907W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
XUVAP	373521N 0251301W	N/A	NIL / SANTA MARIA TMA, Holding Pattern EXIT SID LPAZ
ZEZU	383805N 0091920W	N/A	NIL / NIL

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES

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

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

1. LPPC FIR - GLIDER FLYING ACTIVITY

Designation and lateral limits	Vertical limits	Operator/User Tel Nr.	Remarks and time of ACT
1	2	3	4
AMENDOEIRA AD - LPMN 384233N 0081631W (Amendoeira AD - LPMN) - 384629N 0082208W (Lavre) - 384752N 0081208W (Ciborro) - 384543N 0080721W (Sabugueiro) - 383853N 0081239W (Montemor-o-Novo) - 384233N 0081631W (Amendoeira AD - LPMN)	FL 055 GND	LPMN AD Director Phone: +351 266898100 +351 964810487	See Note 1. Daily SR-SS.
BRAGANÇA AD - LPBG 415632N 0065510W - 415629N 0065456W along border PORTUGAL_SPAIN - 414354N 0063307W - 414318N 0063255W then a clockwise arc radius 20 KM centred on 415124N 0064227W - 415632N 0065510W	FL 060 GND	LPBG AD Director Phone: +351 273304353 +351 932 550351	See Note 1. Daily 0800-SS (0700-SS).
ÉVORA AD - LPEV A circle radius 5 KM centred on 383147N 0075331W (Évora AD - LPEV)	FL 150 GND	LPEV AD Director Phone: +351 266777127 +351 964647224	Activity must be previously coordinated with Beja APP FREQ 130.100MHZ or Lisboa ACC FREQ 123.755MHZ (telephone +351 218553462). See Note 2. FRI, SAT, SUN, MON and Holidays SR-SS.
MOGADOURO AD - LPMU 410804N 0064545W then a clockwise arc radius 16 NM centred on 412340N 0064104W - 412337N 0061951W - 412326N 0062002W along border PORTUGAL_SPAIN - 410831N 0064456W - 410804N 0064545W	FL 095 GND	LPMU AD Director Phone: +351 917825782	See Note 1. SAT, SUN and Holidays SR-SS.
PORTO SANTO CTR AREA 1 330145N 0162252W - 330130N 0162243W - 330213N 0162235W - 330145N 0162252W (Pico das Flores)	1500 FT AMSL GND	Aeroclube da Madeira Phone: +351 291228311 +351 962308580	See Note 3. Daily 0900-1800 (0800-1700).
PORTO SANTO CTR AREA 2 330359N 0161903W - 330347N 0161930W - 330347N 0161918W - 330359N 0161903W (Portela)	1500 FT AMSL GND	Aeroclube da Madeira Phone: +351 291228311 +351 962308580	See Note 3. Daily 0900-1800 (0800-1700).
SANTA CRUZ AD - LPSC A circle radius 5 NM centred on 390725N 0092248W (Santa Cruz AD - LPSC)	3000 FT AMSL SFC	LPSC AD Director Phone: +351 261931056 +351 967603856	See Note 1. SAT, SUN and Holidays SR-SS.

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

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

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

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

2. LPPC FIR - PARACHUTE JUMPING EXERCISES ACTIVITY

Designation and lateral limits	Vertical limits	Operator/User Tel Nr.	Remarks and time of ACT
1	2	3	4
BRAGA AD - LPBR A circle radius 5 KM centred on 413513N 0082642W (Braga AD - LPBR)	FL 150 GND	LPBR AD Director Phone: +351 965015369	Use of area shall be previously coordinated with Porto TWR, aircraft shall climb initially to 2000FT and contact Porto APP. See Note 2. Daily SR-SS.
ESPINHO AD - LPIN A circle radius 3 NM centred on 405839N 0083831W (Espinho AD - LPIN)	FL 140 SFC	LPIN AD Director Phone: +351 939264408	Use of area shall be previously coordinated with Ovar APP FREQ 118.600MHZ or Lisboa ACC by telephone (+351 218553462) and above 2000FT AMSL only after coordination with Porto APP. See Note 2. Daily SR-SS.
ÉVORA AD - LPEV A circle radius 5 KM centred on 383147N 0075331W (Évora AD - LPEV)	FL 150 GND	LPEV AD Director Phone: +351 266777127 +351 964647224	Activity must be previously coordinated with Beja APP FREQ 130.100MHZ or Lisboa ACC FREQ 123.755MHZ (telephone +351 218553462). See Note 2. Daily SR-SS.
PORTIMÃO AD - LPPM A circle radius 3 NM centred on 370858N 0083502W (Portimão AD - LPPM)	FL 150 SFC	LPPM AD Director Phone: +351 282480360 +351 925947830	No aircraft other than those participating in the activity may enter Portimão PJE area, while parachutists are airborne. Above 1000FT AMSL, activity shall be coordinated with Faro TWR and approval is subject to the existing traffic. See Note 2. Daily 0800-SS (0700-SS).
PROENÇA-A-NOVA - LPPN A circle radius 5 NM centred on 394352N 0075229W (Proença-a-Nova AD - LPPN)	FL 170 GND	LPPN AD Director Phone: +351 937527415 or +351 965095196	Above FL095, activity is subject to coordination and approval by the ATS provider. See Note 1. Daily SR-SS.
TANCOS AD - LPTN A circle radius 5 KM centred on 392831N 0082221W (Tancos AD - LPTN)	FL 130 GND	Pára-Clube Nacional Os Boinas Verdes Phone: +351 249711449	Above FL055 will take place only after coordination with Lisboa ACC and approval will be subject to traffic. See Note 1. SAT, SUN, Holidays and 13th JUN: SR-SS.
VILAR DE LUZ AD - LPVL A circle radius 2 NM centred on 411645N 0083102W (Vilar de Luz AD - LPVL)	11750 FT AMSL GND	LPVL AD Director Phone: +351 938707012	The aircraft must initially climb to 2000 FT QNH and contact Porto APP to request higher levels. See Note 2. Daily 0900-SS (0800-SS).
<p>Note 1: Use of area shall be previously requested to Lisboa ACC by telephone (+351 218553462). The user shall report the end of activity to Lisboa ACC by telephone.</p> <p>Note 2. The user shall report the end of activity to ATS provider.</p>			

3. LPPC FIR - AEROBATIC FLIGHT ACTIVITIES

Designation and lateral limits	Vertical limits	Operator/User Tel Nr.	Remarks and time of ACT
1	2	3	4
SANTARÉM - COSME PEDROGÃO AD - LPSR Area located ESE of LPSR 391243N 0084055W - 391235N 0084016W - 391203N 0084029W - 391213N 0084108W - 391243N 0084055W	FL 045 GND	LPSR AD Director Phone: +351 914113816	See Note 1. Daily SR-SS.
Note 1: Use of area shall be previously requested to Lisboa ACC by telephone (+351 218 553 462). The user shall report the end of activity to Lisboa ACC by telephone.			

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LPCS AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	CASCAIS CTR 384740N 0093520W - 384533N 0092709W then a counterclockwise arc 7.5NM radius centred on 385241N 0092407W to 384636N 0091827W - 384122N 0091634W - 383529N 0091426W then a clockwise arc 11NM radius centred on 384454N 0092143W to 384740N 0093520W.
2	Vertical limits	SFC / 2000FT ALT
3	Airspace classification	C
4	ATS unit call sign / Language(s)	Cascais Tower EN, PT
5	Transition altitude	4000 FT
6	Remarks	NIL

LPCS AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
TWR	CASCAIS Tower	120.305 MHZ 119.905 MHZ 121.500 MHZ 243.000 MHZ 313.700 MHZ	HO HO HO HO HO	Primary Secondary Emergency Emergency
SMC	CASCAIS Ground	121.830 MHZ	HO*	* See AD 2.20.3

LPCS AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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 (03° W - 2020)	CAS	114.3MHZ 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
DVOR/DME (02° W - 2020) (03° W)	ESP	112.50MHZ CH72X	H24	382526.9N 0091108.4W	180M	Coverage: 203°/315° - 200NM FL500 315°/203° - 80NM FL500 Not usable: 060°/080° BLW 4000FT BYD 30NM

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 210°/230° BYD 40NM BLW 5000FT 210°/230° BYD 47NM BLW 6000FT

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.

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.

LPCS AD 2.23 ADDITIONAL INFORMATION

9. Bird hazard warning

Possible bird concentration on the vicinity of the Aerodrome.

LPCS AD 2.24 CHARTS RELATED TO AN AERODROME

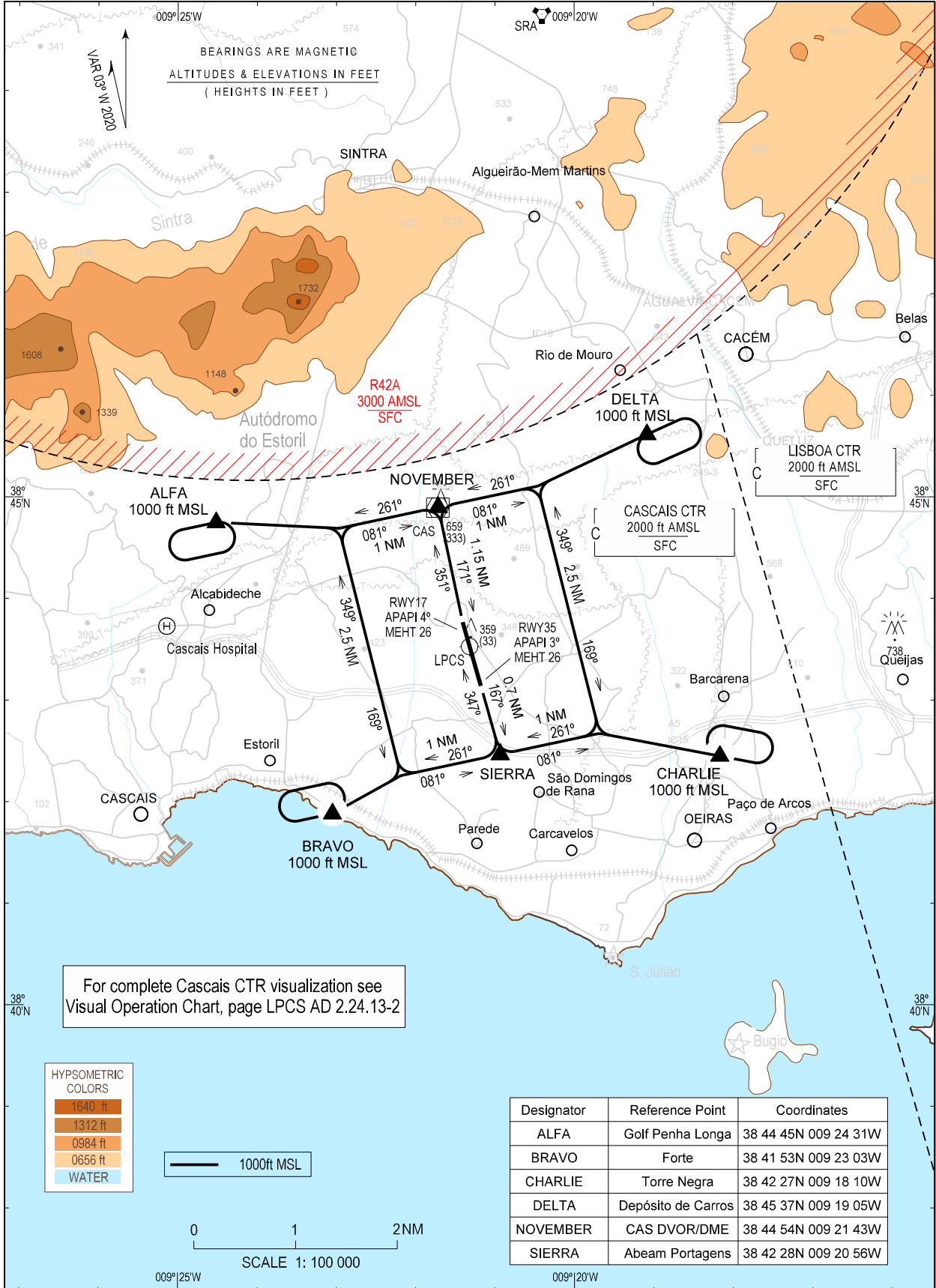
Name	Page
AERODROME CHART - ICAO	LPCS AD 2.24.01-1
AIRCRAFT PARKING/DOCKING CHART ICAO - APRONS C AND D	LPCS AD 2.24.02-1
AIRCRAFT PARKING/DOCKING CHART ICAO - APRONS A AND B	LPCS AD 2.24.02-3
AIRCRAFT PARKING/DOCKING CHART ICAO - APRON E	LPCS AD 2.24.02-5
STANDARD DEPARTURE INSTRUMENT (SID) - RWY 17	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

VISUAL
APPROACH
CHART - ICAO

AD ELEV 326 ft
HEIGHTS RELATED
TO AD ELEV

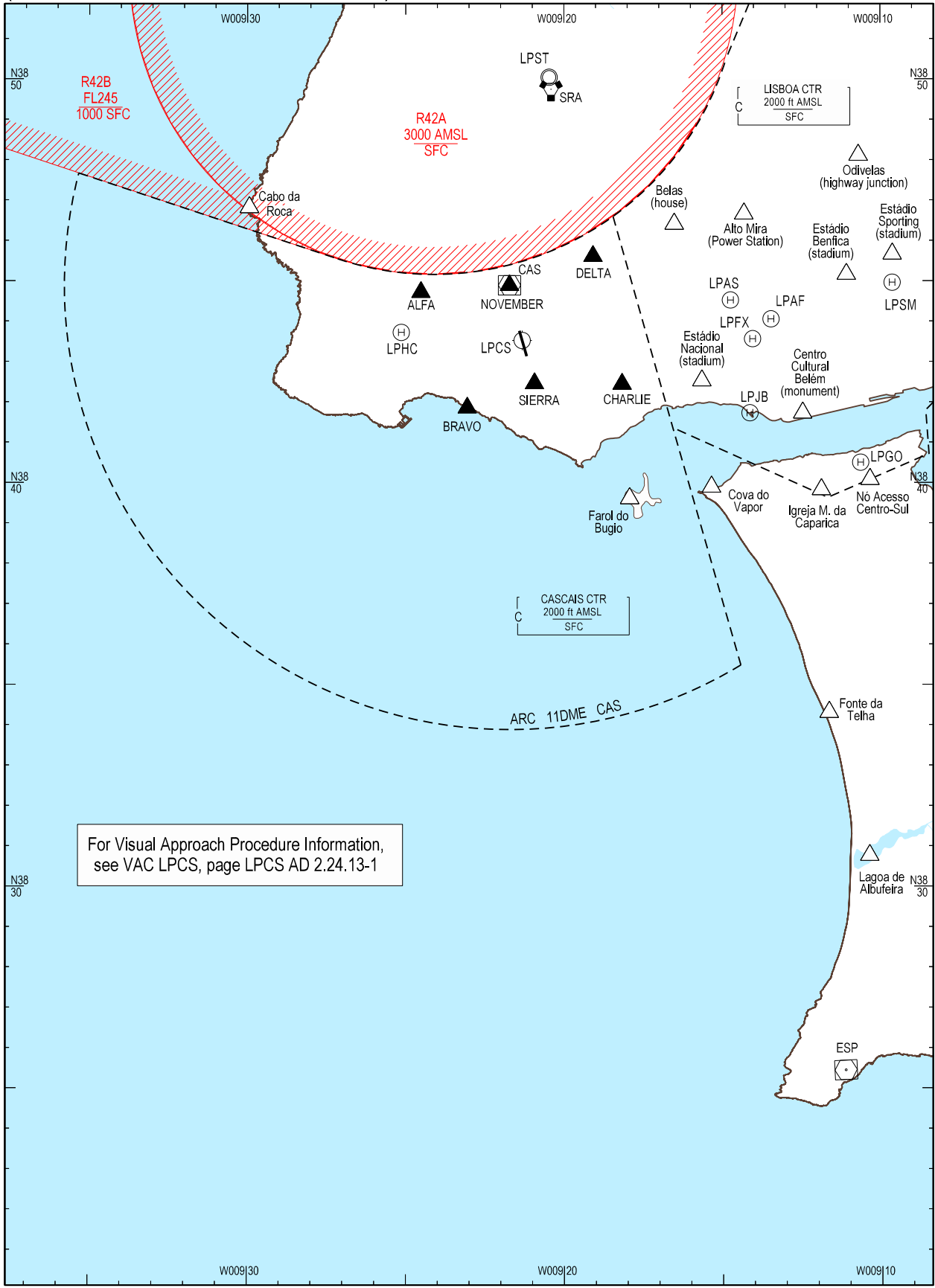
CASCAIS TOWER 120.305
CASCAIS GROUND 121.830

CASCAIS
LPCS



SUPPLEMENTARY
VISUAL APPROACH CHART
(Detailed information of Cascais CTR)

CASCAIS
LPCS



Point DELTA, new COORD.

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

LPCR - CORVO

LPCR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site	LAT: 394017N LONG: 0310700W Centre of RWY 11/29.
2	Direction and distance of ARP from city or town	Aerodrome in the Village
3	Elevation/Reference temperature	18M/ 61FT 24° C (AUG)
4	Geoid undulation at aerodrome elevation position	56M
5	MAG VAR / Annual change	9°W (2020) / 0.17° decreasing
6	AD Administration, address, telephone, telefax, telex, AFS	AD ADMINISTRATION Post: SATA Gestão de Aeródromos S.A. Avenida Infante D. Henrique 55 9510-150 PONTA DELGADA Azores - Portugal Phone:+351 296209710 Phone:+351 296209706 Fax:+351 296672090 Email: sga@sata.pt AD AIRPORT OPERATIONS MANAGER Post: Aeroporto da Ilha do Corvo Caminho dos Moinhos 9980-032 CORVO Azores - Portugal Phone: +351 292590311 Phone: +351 966270793 (mobile) Email: lpcrztzx@sata.pt SITA: LPCRSATW AFS: NIL
7	Types of traffic permitted (IFR/VFR)	VFR
8	Remarks	Corvo (LPCR) is a non-controlled Aerodrome Day light operation only

LPCR AD 2.3 OPERATIONAL HOURS

1	AD Operator	AD Operational Hours: MON-FRI 10:00-13:00 (09:00-12:00) and 15:00-18:00 (14:00-17:00) AD Administration: Working days 10:00-18:00 (09:00-17:00)
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	Monday to Friday Summer: 08:00-17:00 Winter: 08:30-18:00
7	ATS**	HO
8	Fuelling	NIL
9	Handling	MON-FRI 10:00-13:00 (09:00-12:00) and 15:00-18:00 (14:00-17:00)
10	Security	MON-FRI 10:00-13:00 (09:00-12:00) and 15:00-18:00 (14:00-17:00)
11	De-icing	NIL
12	Remarks	AD Operational Hours: Aerodrome operational extension or reopening subject to following conditions: -Other periods under PPR to the Aerodrome Director at least two hours before the planned flight. - PPR to the Aerodrome Director until FRIDAY 17:00 (16:00) to reopening operation on weekend.* AIS available on request through LPPD AIS Briefing Office ** AFIS only

LPCR AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities:	Available by Sata Air Açores
2	Fuel/oil types	NIL
3	Fuelling facilities/capacity	NIL
4	De-icing facilities	NIL
5	Hangar space available for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	Oxygen and related servicing: NIL

LPCR AD 2.5 PASSENGER FACILITIES

1	Hotels	In Vila do Corvo City
2	Restaurants	In Vila do Corvo City
3	Transportation	NIL
4	Medical facilities	First Aid Treatment at Aerodrome, medical Center in Vila Nova do Corvo.
5	Bank and Post Office	In Vila do Corvo City
6	Tourist Office	In Vila do Corvo City
7	Remarks	NIL

LPCR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Within AD HR: CAT 4
2	Rescue equipment	In accordance with CAT 4 requirements established in the table 5.2 of ICAO DOC. 9137 - AN/898 Part I.
3	Capability for removal of disabled aircraft	NIL
4	Remarks	NIL

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

LPLA - LAJES

LPLA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site	LAT: 384543N LONG: 0270527W Intersection Runway 15/33 with Taxiway "F"	
2	Direction and distance of ARP from town	15 KM (8.1 NM) NE from Angra do Heroísmo	
3	Elevation/Reference temperature	55 M / 180 FT THR RWY 33 24.8°C (AUG)	
4	Geoid undulation at aerodrome elevation position	59 M / 193 FT	
5	MAG VAR/Annual change	10° W (2020) / 0.17° decreasing	
6	AD Administration, address, telephone, telefax, telex, AFS	<p>Air Base NR4 Commander - Portuguese Air Force Post: Comando da Base Aérea N4, Estrada do Juncal, porta da BA4 9760-402 PRAIA DA VITÓRIA</p> <p>Ilha Terceira, Açores, Portugal Phone: +351 295512005</p> <p>Air Operations Centre: Phone: +351 295540779 (OPS Duty Officer) +351 295540524 Fax: +351 295540792 Email: ba4_go_noa_soa@emfa.pt ba4_odo@emfa.pt AFS: LPLAYDYA Telegraphic address: BASEQUATRO</p>	<p>Civilian Operations Terminal Post: Aerogare Civil das Lajes Pedreira - Lajes 9760-251 LAJES VPV Ilha Terceira - Açores Portugal</p> <p>Administration: Phone: +351 295545450/4 Fax: +351 295512205 Email: acl.geral@azores.gov.pt URL: http://aerogarelajes.azores.gov.pt</p> <p>Air Operations Service: Phone: +351 295545461 Email: acl.ao@azores.gov.pt</p>
7	Types of traffic permitted (IFR/VFR)	IFR-VFR	
8	Remarks	NIL	

LPLA AD 2.3 OPERATIONAL HOURS

1	AD Operator	Civil Terminal Operations: 08:00-22:00 (07:00-21:00). Other times subject to PPR approval. Air Operations Service: 08:00-22:00 (07:00-21:00). Other times subject to PPR approval. Civil Administration: Working days 09:30-18:00 (08:30-17:00).
2	Customs and immigration	H24 on request outside AD Civil operations hours.
3	Health and sanitation	H24 VET - Live animals, request with 3 HR prior ETA
4	ALS Briefing Office	H24

5	ATS Reporting Office (ARO)	H24
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	Civil Operations: 08:00-24:00 (07:00-23:00) Outside this period services available on request, subject to a surcharge
9	Handling	Civil Operations: 07:30-22:30 (06:30-21:30) Outside this period services available on request, subject to a surcharge
10	Security	H24
11	De-icing	Not available
12	Remarks	NIL

LPLA AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities:	Civilian Aircraft Operations: Available based on handling contract. 1 Loader FMC JPL2 1 Loader FMC Comander 2 Loaders FMC CLT8 2 Fork Lifts up to 3 Tons. 2 ASU Atlas Copco 3 GPUs 120 KVA 28V / 115V-400Hz 1 GPU 90 KVA 28V / 115V-400Hz 2 Water supply vehicles 1 Toilet servicing vehicles 4 Passenger stairs (Low deck)
2	Fuel/oil types	Military Operations: JP8, JET A1 / NIL Civilian Operations: Fuel JET A1 / NIL
3	Fuelling facilities/capacity	Military / State Operations: Single point refuelling hydrant system / no restrictions. Fuel trucks / 6 000 US gal. Civilian Aircraft Operations: JET A1 fuel trucks with 140 000 litres available. Delivery Rate: 2 500 litres/min.
4	De-icing facilities	NIL
5	Hangar space available for visiting aircraft	Available on request, subject to approval. None in civil aviation terminal.
6	Repair facilities for visiting aircraft	Minor repairs only
7	Remarks	NIL

LPLA AD 2.5 PASSENGER FACILITIES

1	Hotels	In Praia da Vitória and Angra do Heroísmo
2	Restaurants	In Praia da Vitória and Angra do Heroísmo
3	Transportation	Buses and Taxis
4	Medical facilities	First Aid treatment, medical assistance, ambulance and Hospital in Angra do Heroísmo (15 KM from Aerodrome).
5	Bank and Post Office	Bank: 2 ATM available H24 at civil terminal. 1 ATM available at Air Base nr4. Post Office: MON-FRI 10:00-13:30 (09:00-12:30) and 15:00-18:30 (14:00-17:30)
6	Tourist Office	Praia da Vitória, Angra do Heroísmo and at the civil terminal.
7	Remarks	NIL

LPLA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS(For VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
TACAN	TRM	CH109X	H24	384536.9N 0270529.2W	200 FT	Coverage: 150 NM/ FL300 TACAN not usable: R100/R110 BYD 10 NM BLW 6000 FT R178/R301 BYD 15 NM BLW 7000 FT DME not usable: R44/R132 BYD 20 NM BLW 6000 FT R178/R260 BYD 20 NM BLW 7000 FT R261/R300 BYD 20 NM ALL ALTITUDES Maintenance: FRI 04:00/08:00 (03:00/07:00)
VOR (10°W 2020)	LM	112.300 MHZ	H24	384702.1N 0270615.8W		Coverage:100 NM Not usable: R215/R275 beyond 15 NM Maintenance: WED 09:00-13:00 (0800-1200).
ILS RWY 15 (CAT I)						
LOC (10°W 2020)	DK	109.900 MHZ	H24	384502.4N 0270444.8W		Coverage: 50 NM Maintenance: TUE and THU 09:00- 13:00(08:00-12:00).
GP		333.800 MHZ	H24	384628.7N 0270606.7W		Slope 3 DEG
ILS RWY 33 (CAT I)						
LOC (10°W 2020)	OZ	111.500 MHZ	H24	384641.0N 0270627.9W		Localizer unusable BYD 30 DEG Left of Course. Coverage: 50 NM Maintenance: TUE and THU 09:00- 13:00 (08:00-12:00).
GP		332.900 MHZ	H24	384521.5N 0270458.6W		Slope 3.2 DEG Autopilot coupled approach not authorized below 550FT AMSL.

LPLA AD 2.20 LOCAL AERODROME REGULATIONS

1. Limitations on use of aerodrome

180 degrees turn, on RWY15/33, not authorized.

Non existing signs "NO ENTRY" on deactivated TWY at West side of THR RWY 15

All aircraft turning onto TWY "A", from RWY to Apron "C", use caution and maintain minimum speed necessary to make the turn. Area is prone to damage from high speed turns.

Engine test runs are coordinated via Dispatch. Engine test runs on idle power may take place on stands. Engine test runs above idle power will take place on stand J2A or Apron F as designated by Duty Officer.

Engine runs are not authorized between 01:00-06:59 (00:00-05:59).

On all aprons, maximum allowed power limited to BREAKAWAY POWER. If not foreseen on Flight Manual, use minimum power necessary to manoeuvre. Stands and/or vehicles passing behind on apron service roads.

Refuelling with passengers on board is approved for special situations, such as, after emergency, medical evacuation, stop for non-traffic purposes and VIP flights. Other situations will be subject to approval by Air Base Commander.

Apron/stand limitations:

Apron B limited to aircraft with wingspan less than 40 M. Otherwise adjacent spots must be unoccupied.

Apron C limited to Code C aircraft (MAX SPAN 36 M). Civil aircraft of Codes D to F shall expect parking on Military Ramps.

Apron D limited to aircraft with wingspan less than 40 M. Otherwise adjacent spots must be unoccupied.

Apron E limited to aircraft with wingspan less than 49 M. Otherwise adjacent spots must be unoccupied.

Apron F limited to aircraft with wingspan less than 63 M. Otherwise adjacent spots must be unoccupied.

Apron G limited to aircraft with wingspan of 22 M.

2. Special transit requirements

2.1 Military/State Aircraft

PPR is mandatory for Military/State Aircraft operating at Lajes.

PPR number for Military/State Aircraft shall be requested during AD Administration Operational Hours to Air Base 4 Air Operations Center (+351 295540779 or ba4_go_noa_soa@emfa.pt) prior to ICAO Flight Plan submission. Subject to delay, outside this period contact OPS Duty Officer (+351 295540524 or ba4_odo@emfa.pt).

Diplomatic Clearance Number (DCN) and PPR for Military/State Aircraft shall be included in ICAO Flight Plan, Item 18.

Distress aircraft, medical emergencies and medical flights for a life critical medical emergency evacuation (STS/MEDEVAC on ICAO FPL, Item 18), are exempted from complying with these procedures.

2.2 Civilian Aircraft

All civilian flights are required to obtain a PPR in order to operate at LPLA. Distress aircraft, medical emergencies and Medical/Hospital flights for a life critical emergency evacuation (STS/MEDEVAC in ICAO FPL, Item 18), are exempted from complying with PPR procedures.

PPR Requests shall be submitted as early as possible to allow a planning commensurate with the operational needs. PPR for flights operating with aircraft code "D" or larger (wingspan greater than 36 meters) requires previous coordination and approval from the Military Air Base due to parking limitations on apron "Charlie".

PPR Requests shall be received by the Operations Department during the regular duty hours from 08:00-22:00 (07:00-21:00), Monday through Sunday. PPR Requests shall be submitted, to Air Operations Service (+351 295545461 or acl.oa@azores.gov.pt), as follows:

General Aviation and Charter Flights – Form "A" – PPR Request shall be submitted until 4 hours prior to EOBT. PPR Form "A" is prepared to submit new requests, changes and cancellations.

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 filled	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 5.5% until passing 2100FT). 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.

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

Name	Page
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

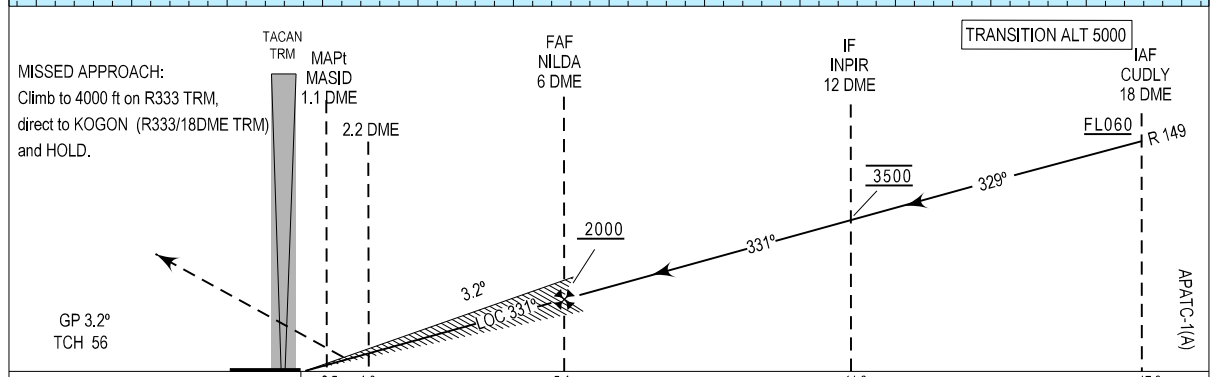
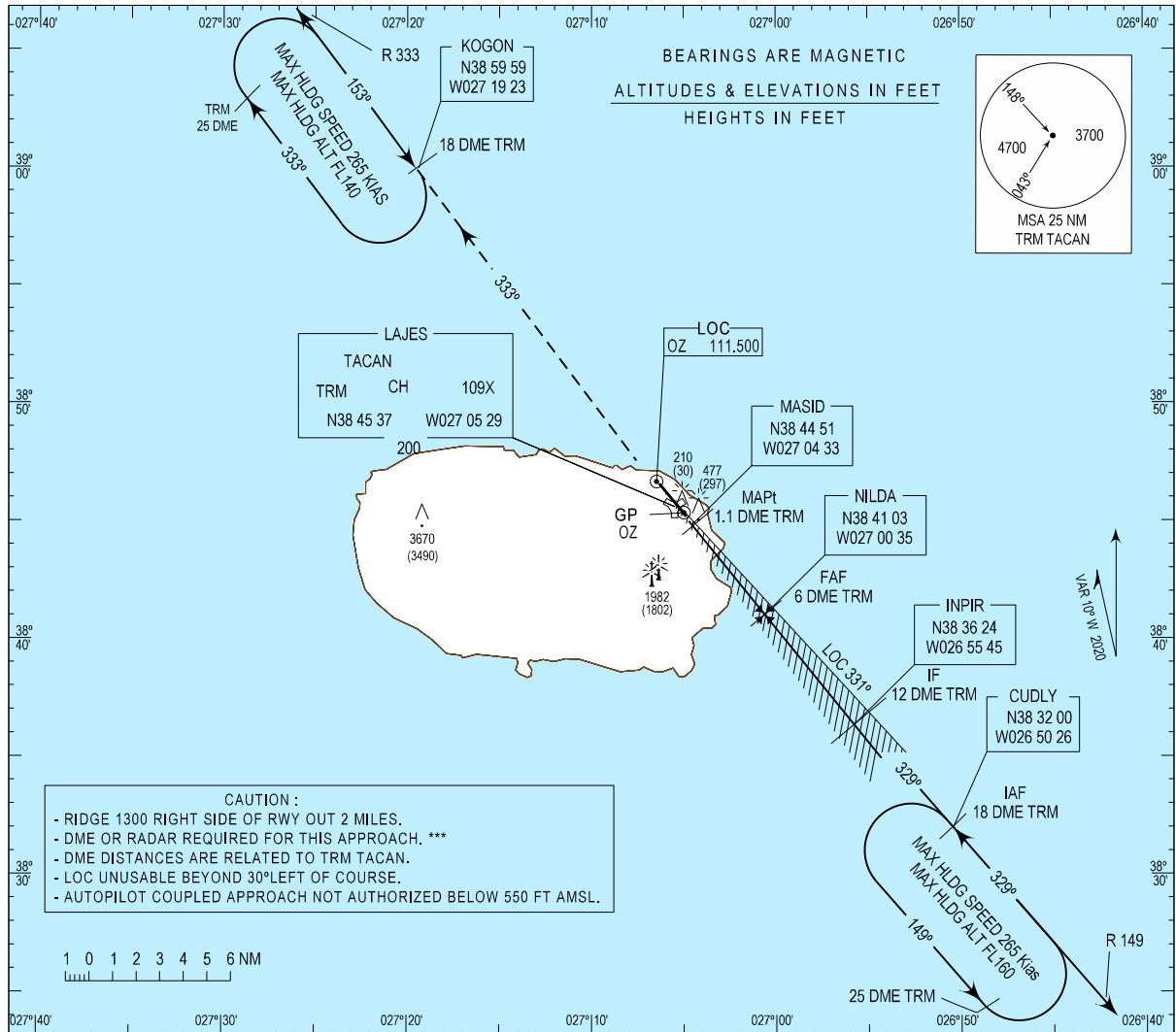
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INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV. 180ft
HEIGHTS RELATED TO
THR RWY 33 - ELEV 180ft

ATIS 120.300
APP 135.000
TWR 122.100
SMC 121.900

LAJES (LPLA)
ILS
RWY 33



CATEGORY	A	B	C	D	E
ILS 33 **			559 379 (400 - 1.0)		
LOC 33 **			730 550 (600 - 1.8)		
CIRCLING ***	780 600 (600 - 2.7)		880 700 (700 - 3.2)	880 700 (700 - 3.6)	970 790 (800 - 3.6)
***CIRCLING NOT AUTHORIZED WEST OF RWY 15 / 33					

** IF ALS INOP INCREASE VIS CAT A/B/C/D/E 400 m.
**** When TRM TACAN U/S expect FAF call by ATC
and alternative Missed Approach Instruction.

Minima updated.

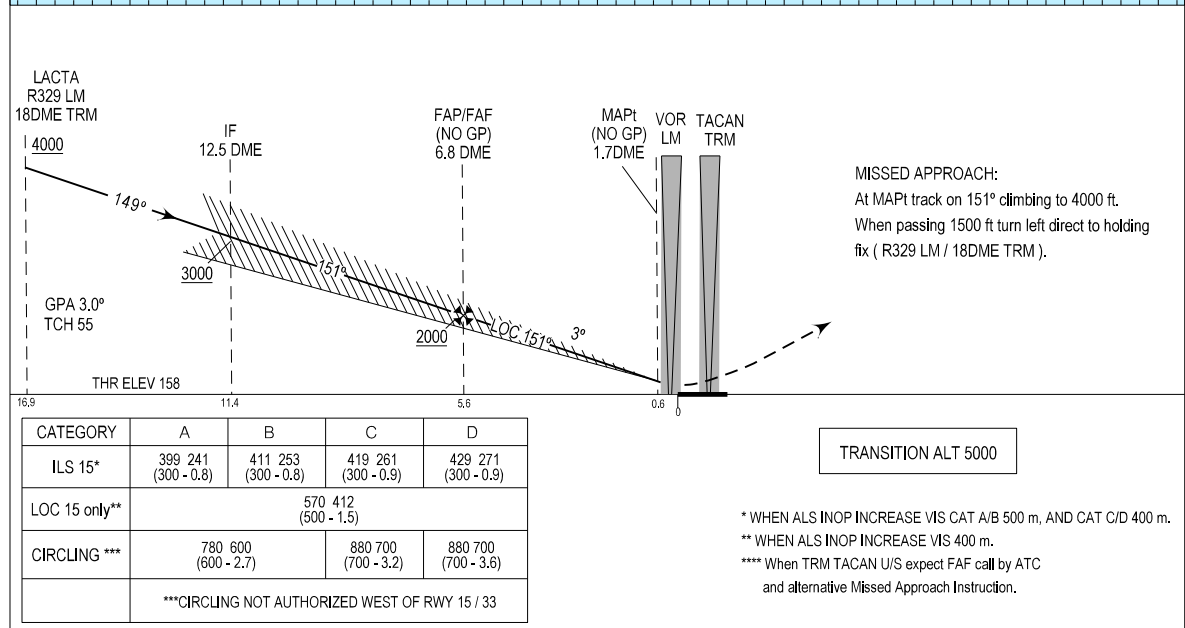
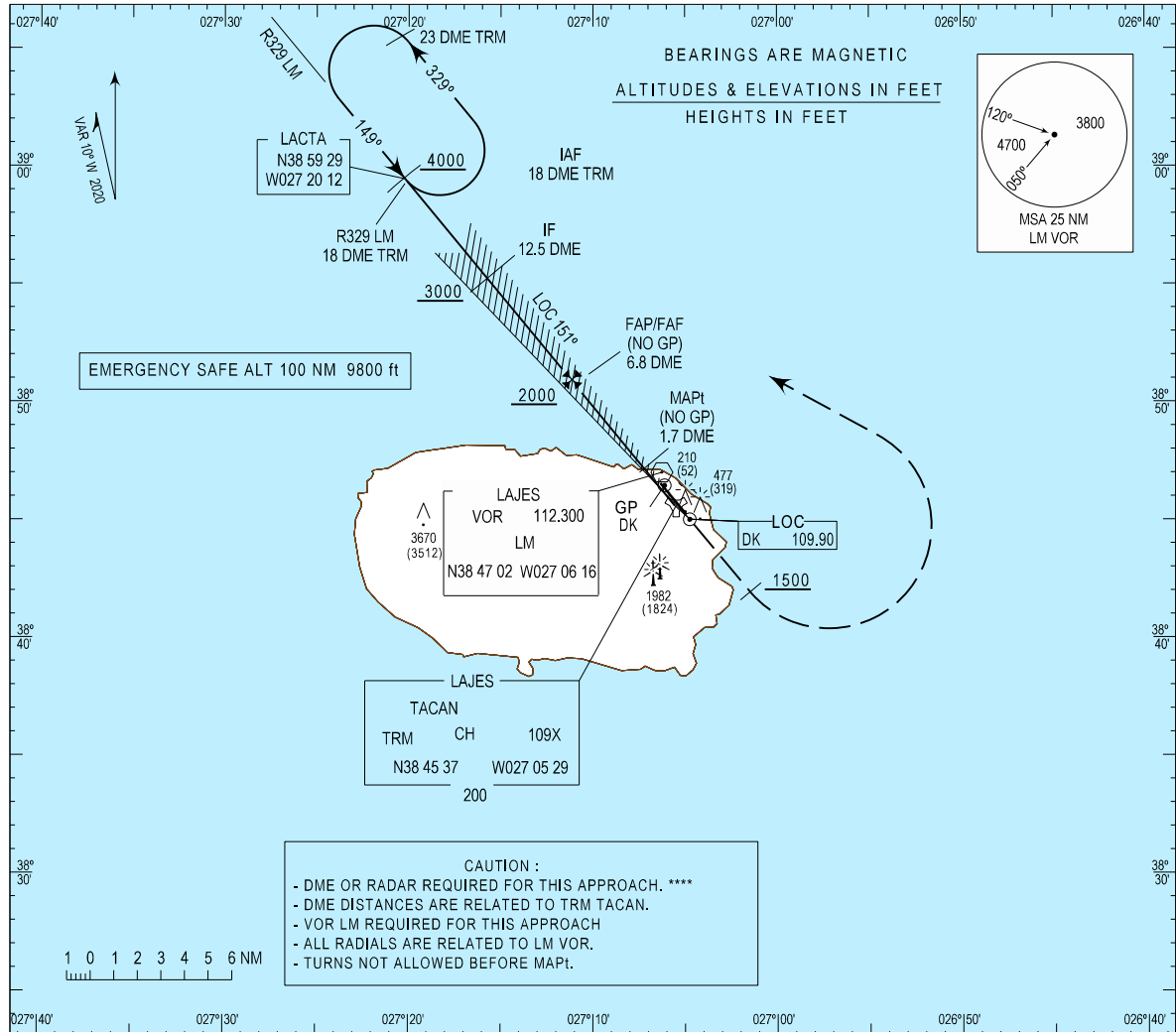
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INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV. 180ft
HEIGHTS RELATED TO
THR RWY 15 - ELEV 158ft

ATIS 120.300
APP 135.000
TWR 122.100
SMC 121.900

LAJES (LPLA)
ILS-Y
RWY 15



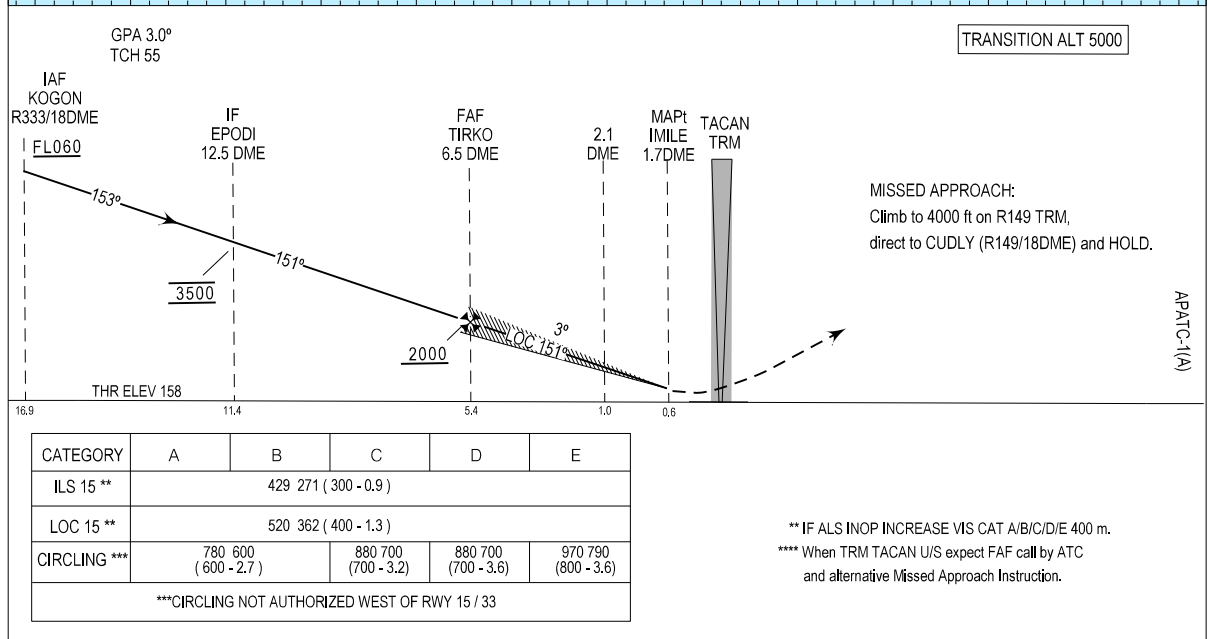
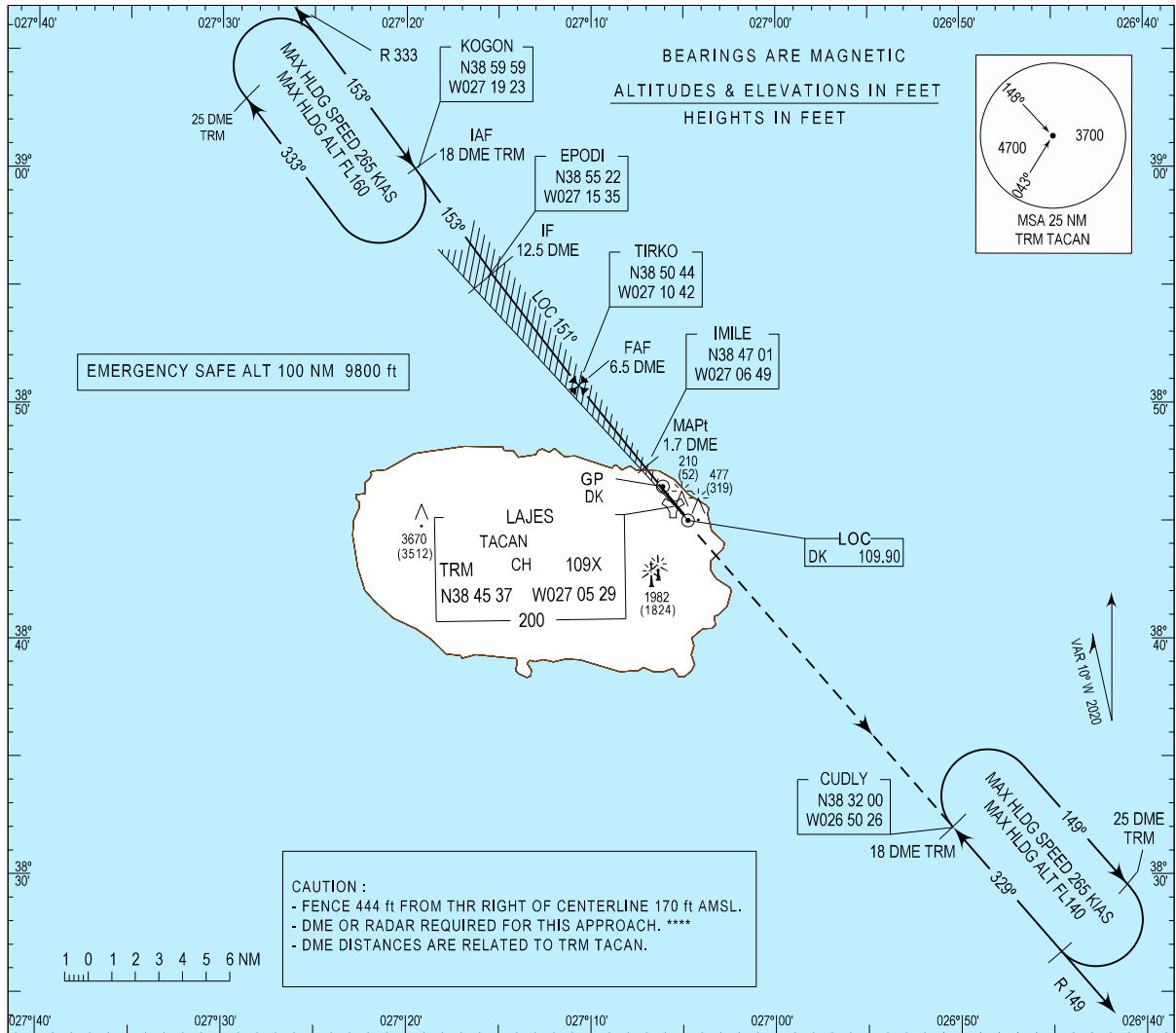
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INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV. 180ft
HEIGHTS RELATED TO
THR RWY 15 - ELEV 158ft

ATIS 120.300
APP 135.000
TWR 122.100
SMC 121.900

LAJES (LPLA)
ILS
RWY 15



Minima updated. Caution box limitation removed.

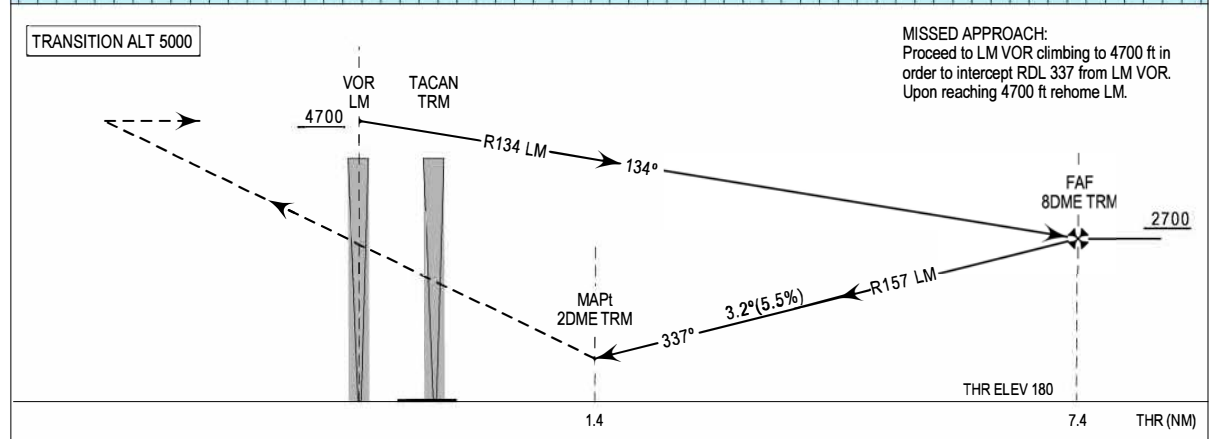
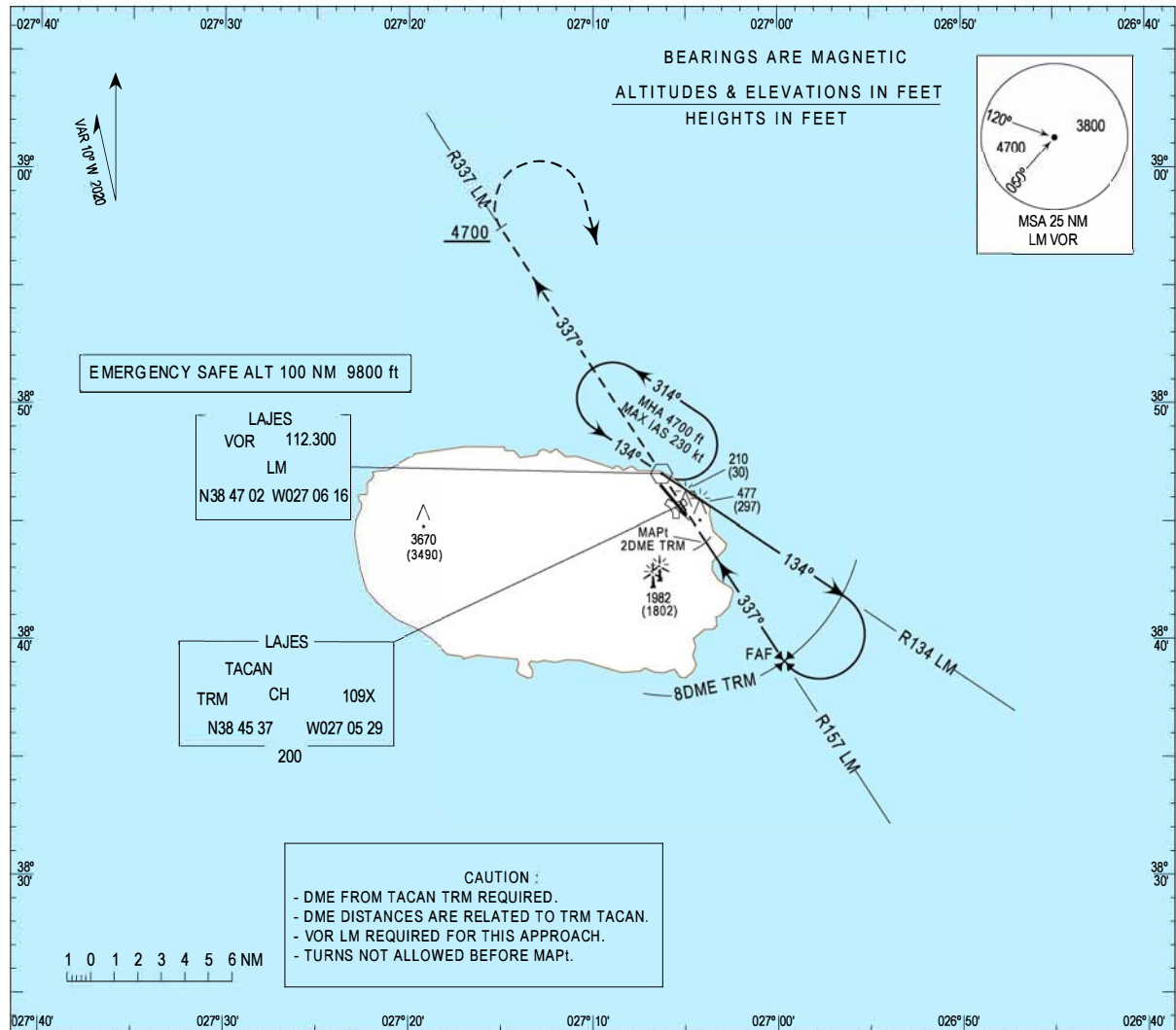
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INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV. 180ft
HEIGHTS RELATED TO
THR RWY 33 - ELEV 180ft

ATIS 120.300
APP 135.000
TWR 122.100
SMC 121.900

LAJES (LPLA)
VOR
RWY 33



CATEGORY	A	B	C	D
VOR RWY33*	760 580 (600 - 1.9)			
CIRCLING**	890 710 (800 - 3.3)	910 730 (800 - 3.4)	1140 960 (1000 - 4.5)	
* IF ALS INOP INCREASE VIS 700 m **CIRCLING NOT AUTHORIZED WEST OF RWY 15 / 33				

DME-TRM	8	7	6	5	4	3
ALTITUDE	2700	2404	2064	1725	1385	1045
HEIGHT	2520	2224	1884	1545	1205	1045
DIST THR	7.4	6.4	5.4	4.4	3.4	2.4

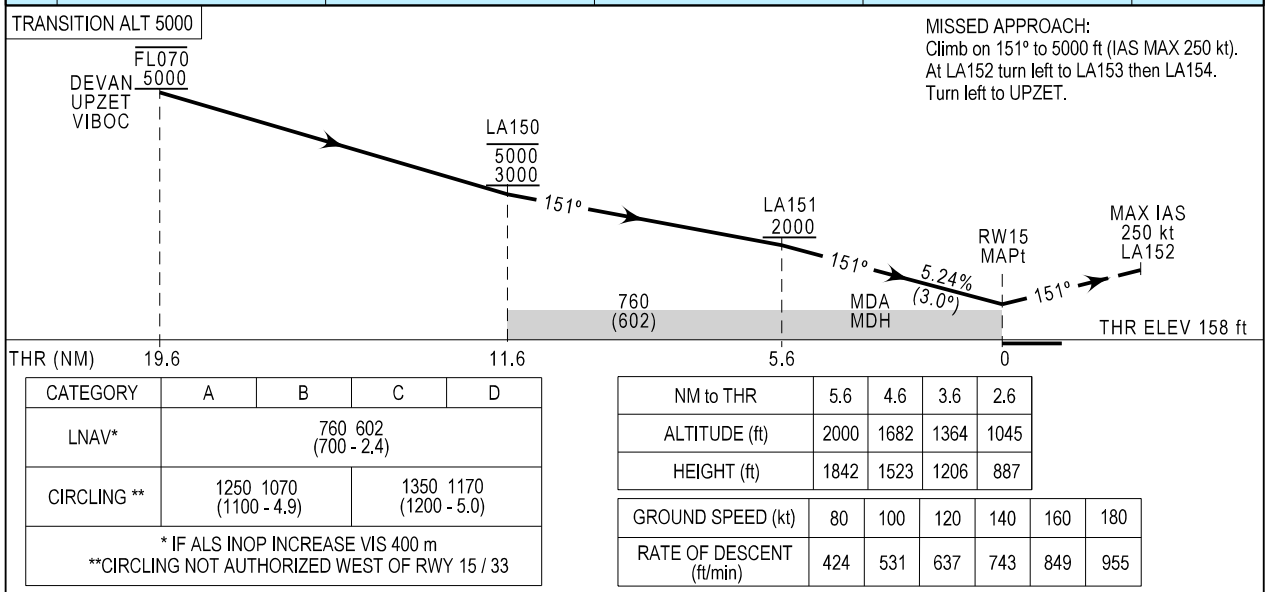
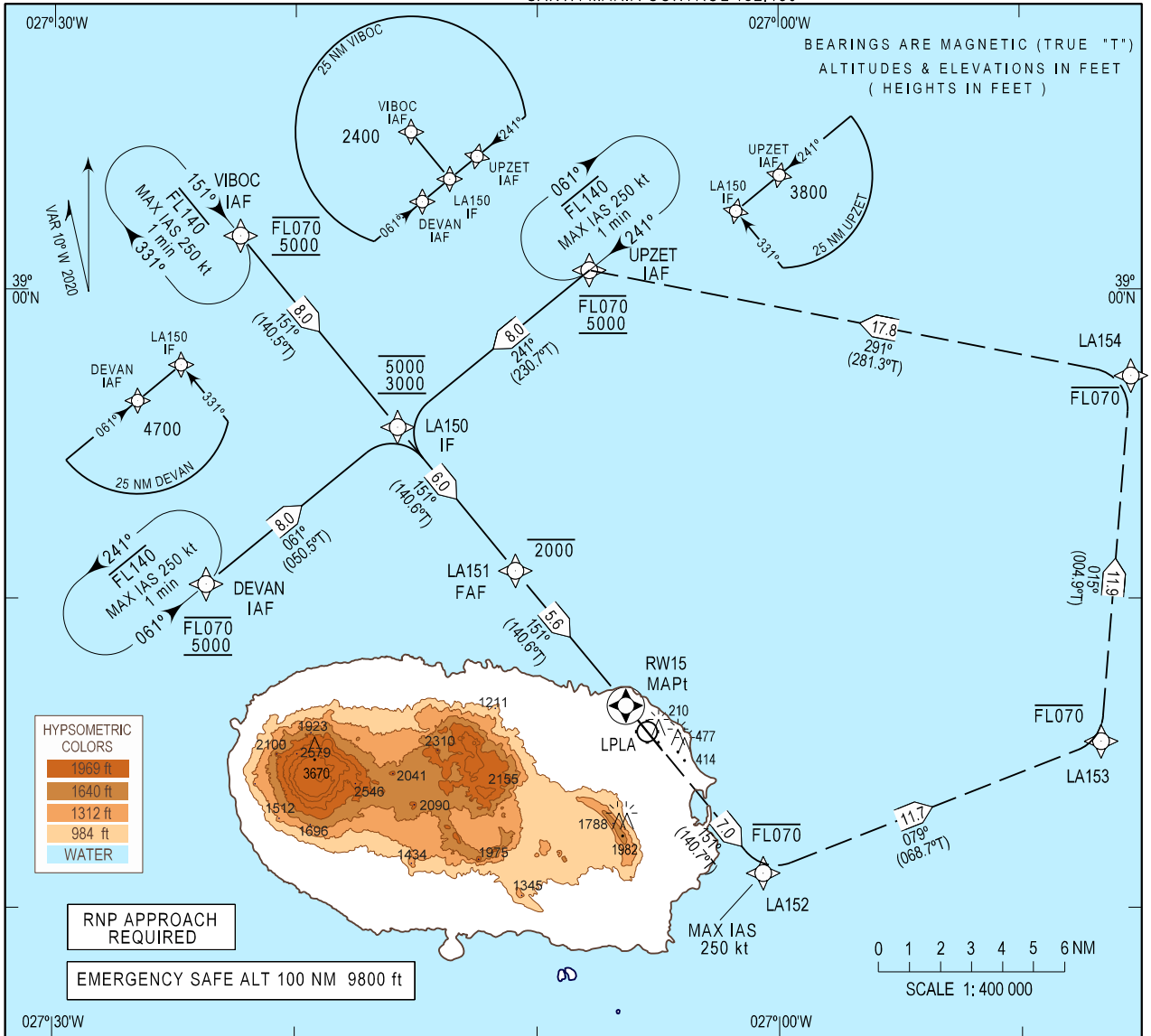
Minima updated.

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INSTRUMENT APPROACH CHART - ICAO
AD ELEV 180 ft
HEIGHTS RELATED THR RWY 15 - ELEV 158 ft

LAJES ATIS 120.300
LAJES APPROACH 135.000
LAJES TOWER 122.100
LAJES GROUND 121.900
SANTA MARIA CONTROL 132.150

LAJES (LPLA)
RNP RWY 15
(LNAV only)



New IAP

Instrument Approach Procedure Coding Table

PATH TERMINATORS LPLA RNP RWY15

VIA DEVAN

Path Terminator	Waypoint					Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates					Level	Speed		
IF	DEVAN	IAF	NO	385028.2N	0272341.1W	-	-	-	- FL070 +5000	250 kt	RNP APCH	
TF	LA150	IF	NO	385533.4N	0271546.5W	061 (050.5)	8.0	RIGHT	- 5000 +3000	250 kt	RNP APCH	
TF	LA151	FAF	NO	385054.9N	0271053.9W	151 (140.6)	6.0	-	- 5000 +2000	185 kt	RNP APCH	
TF	RW15	MAPt	YES	384633.4N	0270620.0W	151 (140.6)	5.6	-	- 5000 +760	185 kt	RNP APCH	

VIA UPZET

Path Terminator	Waypoint					Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates					Level	Speed		
IF	UPZET	IAF	NO	390038.2N	0270750.7W	-	-	-	- FL070 +5000	250 kt	RNP APCH	
TF	LA150	IF	NO	385533.4N	0271546.5W	241 (230.7)	8.0	LEFT	- 5000 +3000	250 kt	RNP APCH	
TF	LA151	FAF	NO	385054.9N	0271053.9W	151 (140.6)	6.0	-	- 5000 +2000	185 kt	RNP APCH	
TF	RW15	MAPt	YES	384633.4N	0270620.0W	151 (140.6)	5.6	-	- 5000 +760	185 kt	RNP APCH	

VIA VIBOC

Path Terminator	Waypoint					Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates					Level	Speed		
IF	VIBOC	IAF	NO	390144.5N	0272217.5W	-	-	-	- FL070 +5000	250 kt	RNP APCH	
TF	LA150	IF	NO	385533.4N	0271546.5W	151 (140.5)	8.0	-	- 5000 +3000	250 kt	RNP APCH	
TF	LA151	FAF	NO	385054.9N	0271053.9W	151 (140.6)	6.0	-	- 5000 +2000	185 kt	RNP APCH	
TF	RW15	MAPt	YES	384633.4N	0270620.0W	151 (140.6)	5.6	-	- 5000 +760	185 kt	RNP APCH	

MISSED APPROACH

Path Terminator	Waypoint					Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates					Level	Speed		
CF	LA152	-	NO	384108.0N	0270040.2W	151 (140.7)	7.0	LEFT	- FL070	250 kt	RNP APCH	
TF	LA153	-	NO	384522.3N	0264642.7W	079 (068.7)	11.7	LEFT	- FL070	250 kt	RNP APCH	
TF	LA154	-	NO	385711.6N	0264525.3W	015 (004.9)	11.9	LEFT	- FL070	250 kt	RNP APCH	
TF	UPZET	-	NO	390038.2N	0270750.7W	291 (281.3)	17.8	-	- FL070 +5000	250 kt	RNP APCH	

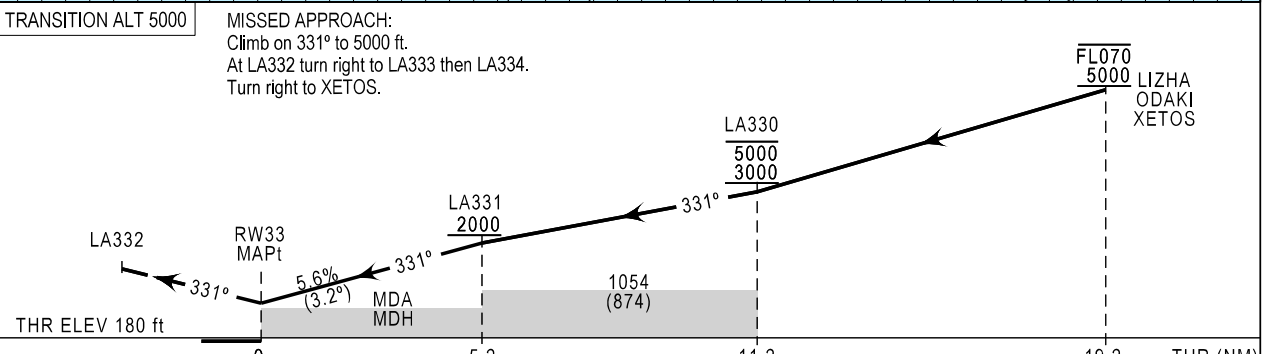
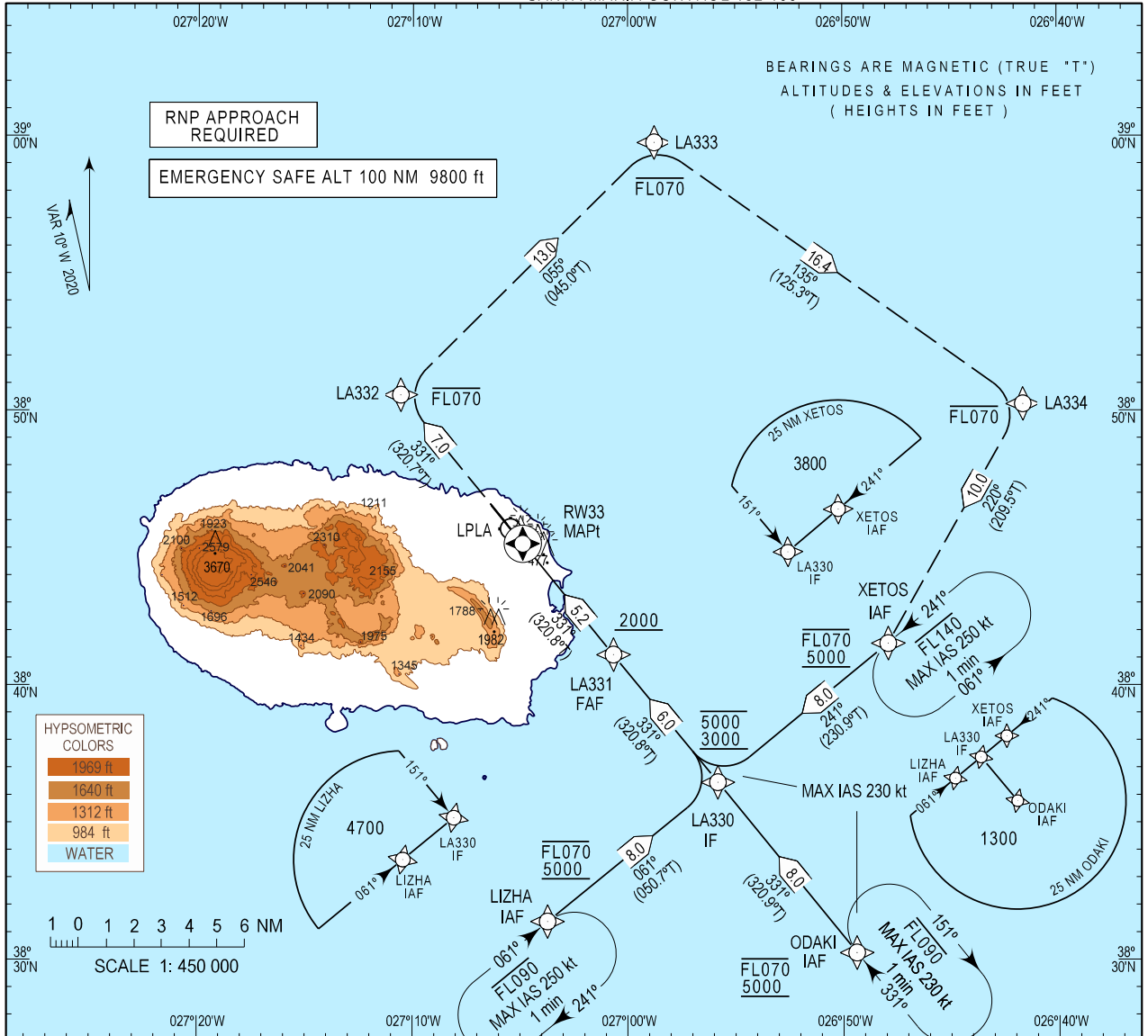
HOLDINGS

Path Terminator	Waypoint					Course/Track MAG (True)	Time (s)	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates					Level	Speed		
HM	DEVAN	IAF	YES	385028.2N	0272341.1W	061 (050.5)	60	LEFT	- FL140 +5000	250 kt	RNP APCH	
HM	UPZET	IAF	YES	390038.2N	0270750.7W	241 (230.7)	60	RIGHT	- FL140 +5000	250 kt	RNP APCH	
HM	VIBOC	IAF	YES	390144.5N	0272217.5W	151 (140.5)	60	RIGHT	- FL140 +5000	250 kt	RNP APCH	

INSTRUMENT APPROACH CHART - ICAO
 AD ELEV 180 ft
 HEIGHTS RELATED
 THR RWY 33 - ELEV 180 ft

LAJES ATIS 120.300
 LAJES APPROACH 135.000
 LAJES TOWER 122.100
 LAJES GROUND 121.900
 SANTA MARIA CONTROL 132.150

LAJES (LPLA)
 RNP RWY 33
 (LNAV only)



CATEGORY	A	B	C	D
LNAV*	760 580 (600 - 1.9)			
CIRCLING **	810 630 (700 - 2.9)	910 730 (800 - 3.4)	910 730 (800 - 3.6)	

	5.2	4.2	3.2	2.2
NM to THR	5.2	4.2	3.2	2.2
ALTITUDE (ft)	2000	1661	1322	982
HEIGHT (ft)	1820	1481	1142	802
GROUND SPEED (kt)	80	100	120	140
RATE OF DESCENT (ft/min)	453	566	679	792

* IF ALS INOP INCREASE VIS 700 m
 **CIRCLING NOT AUTHORIZED WEST OF RWY 15 / 33

New IAP

Instrument Approach Procedure Coding Table

PATH TERMINATORS LPLA RNP RWY33

VIA LIZHA

Path Terminator	Waypoint					Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates					Level	Speed		
IF	LIZHA	IAF	NO	383124.8N	0270343.5W	-	-	-	- FL070 +5000	250 kt	RNP APCH	
TF	LA330	IF	NO	383628.8N	0265549.5W	061 (050.7)	8.0	LEFT	-5000 +3000	250 kt	RNP APCH	
TF	LA331	FAF	NO	384107.9N	0270040.1W	331 (320.8)	6.0	-	-5000 +2000	185 kt	RNP APCH	
TF	RW33	MAPt	YES	384510.3N	0270453.1W	331 (320.8)	5.2	-	-5000 +730	185 kt	RNP APCH	

VIA ODAKI

Path Terminator	Waypoint					Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates					Level	Speed		
IF	ODAKI	IAF	NO	383016.2N	0264923.1W	-	-	-	- FL070 +5000	230 kt	RNP APCH	
TF	LA330	IF	NO	383628.8N	0265549.5W	331 (320.9)	8.0	-	- 5000 +3000	230 kt	RNP APCH	
TF	LA331	FAF	NO	384107.9N	0270040.1W	331 (320.8)	6.0	-	- 5000 +2000	185 kt	RNP APCH	
TF	RW33	MAPt	YES	384510.3N	0270453.1W	331 (320.8)	5.2	-	- 5000 +730	185 kt	RNP APCH	

VIA XETOS

Path Terminator	Waypoint					Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates					Level	Speed		
IF	XETOS	IAF	NO	384132.2N	0264754.4W	-	-	-	- FL070 +5000	250 kt	RNP APCH	
TF	LA330	IF	NO	383628.8N	0265549.5W	241 (230.9)	8.0	RIGHT	- 5000 +3000	250 kt	RNP APCH	
TF	LA331	FAF	NO	384107.9N	0270040.1W	331 (320.8)	6.0	-	- 5000 +2000	185 kt	RNP APCH	
TF	RW33	MAPt	YES	384510.3N	0270453.1W	331 (320.8)	5.2	-	- 5000 +730	185 kt	RNP APCH	

MISSED APPROACH

Path Terminator	Waypoint					Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates					Level	Speed		
CF	LA332	-	NO	385035.5N	0271033.6W	331 (320.7)	7.0	RIGHT	- FL070	265 kt	RNP APCH	
TF	LA333	-	NO	385947.0N	0265846.1W	055 (045.0)	13.0	RIGHT	- FL070	265 kt	RNP APCH	
TF	LA334	-	NO	385015.1N	0264137.1W	135 (125.3)	16.4	RIGHT	- FL070	265 kt	RNP APCH	
TF	XETOS	IAF	NO	384132.2N	0264742.4W	220 (209.5)	10	-	- FL070 +5000	250 kt	RNP APCH	

HOLDINGS

Path Terminator	Waypoint					Course/Track MAG (True)	Time (s)	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates					Level	Speed		
HM	LIZHA	IAF	YES	383124.8N	0270343.5W	061 (050.7)	60	RIGHT	- FL090 +5000	250 kt	RNP APCH	
HM	ODAKI	IAF	YES	383016.2N	0264923.1W	331 (320.9)	60	RIGHT	- FL090 +5000	230 kt	RNP APCH	
HM	XETOS	IAF	YES	384132.2N	0264742.4W	241 (230.9)	60	LEFT	- FL140 +5000	250 kt	RNP APCH	

LPMA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN (324137.28N 0164631.71W): ALTN FLG W G EV 10 SEC, HN
2	LDI location and lighting Anemometer location and lighting	LDI: NIL Anemometers: RWY 05: Right Side, 300M THR. Lighted RWY 23: Left Side, 300M THR. Lighted Middle Point: 1320M THR and Right side RWY05. Lighted
3	TWY edge and centre line lighting	All Taxiways
4	Secondary power supply/switch-over time	Secondary power supply available within 15 seconds
5	Remarks	NIL

LPMA AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO	NIL
2	TLOF and/or FATO elevation	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True BRG of FATO	NIL
5	Declared distance available	NIL
6	APCH and FATO lighting	NIL
7	Remarks	NIL

LPMA AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	MADEIRA CTR A circle with 5NM radius centred at ARP (324139N 0164641W)
2	Vertical limits	2000FT ALT (600M)
3	Airspace classification	C
4	ATS unit call sign / Language(s)	Madeira Approach, Madeira Tower EN, PT
5	Transition altitude	5000FT
6	Remarks	NIL

LPMA AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
APP	MADEIRA Approach	119.605 MHZ	HO	Primary
		120.455 MHZ	HO	Secondary
		121.500 MHZ	H24	Emergency
		243.000 MHZ	H24	Emergency
		279.050 MHZ	H24	
TWR	MADEIRA Tower	124.660 MHZ	H24	Primary

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
		121.500 MHZ 243.000 MHZ 279.050 MHZ	H24 H24 H24	Emergency Emergency
ATIS	MADEIRA Information	130.355 MHZ (arrivals) 121.630 MHZ (departures)	H24	ATIS Service also available by ACARS for Aircraft equipped with ACARS Management Unit. Providers are SITA for data link communications and MADEIRA Control for ATIS Service. Telephone Service: +351 291520633 or 2333 of NAV Portugal E.P.E. internal network.

LPMA 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 (04° W - 2020)	FUN	112.200 MHZ	H24	324449.8N 0164219.6W		Coverage: 200NM FL500 Not usable: 240°/310° BYD 20NM BLW 9000FT
DME	FUN	CH 59X	H24	324449.3N 0164220.5W	500FT	Coverage: 200NM FL500 Not usable: 240°/310° BYD 20NM BLW 9000FT
DVOR (04° W - 2020)	SNT	114.900 MHZ	H24	330525.5N 0162102.3W		Coverage: 200NM FL500 Not usable: RDL050 BYD 29NM BLW 4000FT RDL066 BYD 31NM BLW 4000FT 070°/170° and 195°/250° BYD 10NM below 9000FT
DME	SNT	CH 96X	H24	330525.0N 0162101.3W	400FT	Coverage: 200NM FL500 Not usable: 070°/170° and 195°/250° BYD 10NM below 9000FT

LPMA AD 2.20 LOCAL AERODROME REGULATIONS

1. Limitations on use of aerodrome

Restricted to aircraft capable of maintaining two way communications with Madeira TWR.

The peculiar operation of MADEIRA AD and operating limitations are stated in paragraph 2 below.

For request of Airport Slots see paragraph GEN 1.2.2, Item 1.2.2.1

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

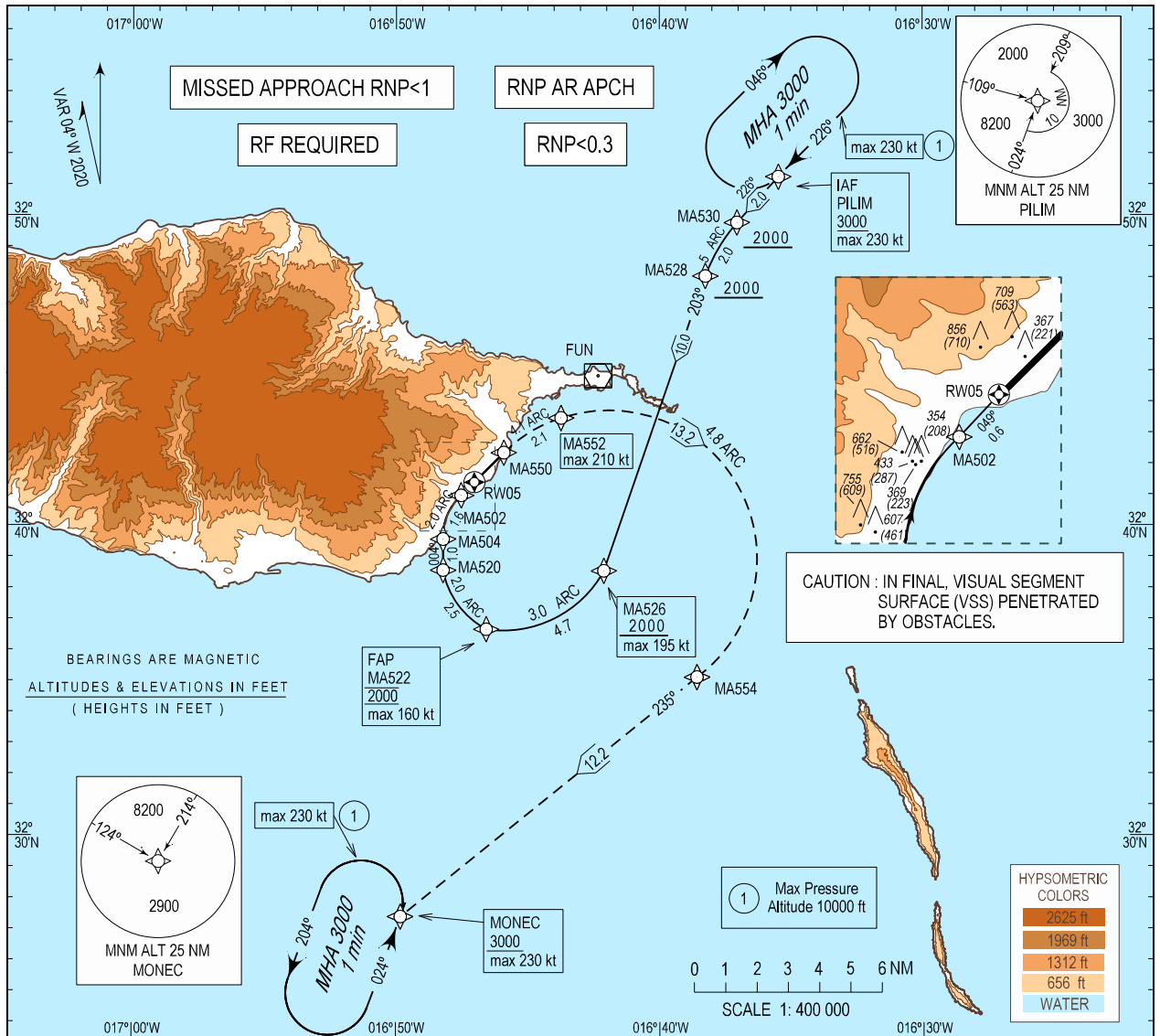
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INSTRUMENT
APPROACH
CHART - ICAO

AD ELEV 191 ft
HEIGHTS RELATED
THR RWY 05 - ELEV 146 ft

MADEIRA ARR INFORMATION 130.355
MADEIRA APPROACH 119.605
MADEIRA TOWER 124.660

MADEIRA (LPMA)
RNP Z RWY 05 (AR)



MISSED APPROACH

Climb to 3000 ft via the RNP missed approach track MA550 - MA552 - MA554 to MONEC.
At MONEC hold or follow ATC instructions.

RCF: Squawk 7600.
Proceed as above.
On MONEC holding, make one complete holding pattern at 3000 ft and then proceed to perform RNP Y RWY05 Procedure.

② RNP 0.1/0.2 is required until MA552

TA: 5000	BARO-VNAV MINIMUM TEMPERATURE : +7.5°C	FAP MA522 2000	MA520 1200	MA504 890	MA502 390	RWY05
MA526 2000						

	CAT A		CAT B		CAT C		CAT D	
	DA(H)	OCH	DA(H)	OCH	DA(H)	OCH	DA(H)	OCH
RNP 0.3	890 (744)	739	900 (754)	751	910 (764)	759	920 (774)	770
② RNP 0.2	800 (654)	646	810 (664)	658	820 (674)	666	830 (684)	677
② RNP 0.1	500 (354)	353	520 (374)	365	520 (374)	373	530 (384)	384

* mean wind or gust at MID or ROSARIO

For wind information see: LPMA AD 2.20 - Operating procedures and limitations

TWR FREQ changed.

**Instrument Approach Procedure Coding
Table Madeira RNP Z RWY 05 (AR)**

Path Terminator	Waypoint				Course/Track MAG (True)	Dist NM	Turn Direction	ARC Centre Waypoint		ARC Radius NM
	Identifier	Type	Flyover	Coordinates				Identifier	Coordinates	
IF	PILIM	IAF	-	325114.8570N 0163528.6380W	-	-	-	-	-	-
TF	MA530	-	-	324946.2150N 0163703.1800W	226.470 (222.006)	1.984	-	-	-	-
RF	MA528	-	-	324802.7050N 0163815.3030W	-	2.011	L	MAC06	324625.0020N 0163238.7640W	5.000
TF	MA526	IF	-	323832.2100N 0164206.6960W	203.410 (198.942)	10.032	-	-	-	-
RF	MA522	FAP	-	323639.1230N 0164634.4420W	-	4.669	R	MAC09	323930.6090N 0164528.4020W	3.000
RF	MA520	-	-	323833.4700N 0164812.5380W	-	2.512	R	MAC04	323833.4480N 0164550.4230W	2.000
TF	MA504	-	-	323933.5900N 0164812.5380W	004.468 (360.000)	1.000	-	-	-	-
RF	MA502	-	-	324058.1010N 0164731.4930W	-	1.559	R	MAC01	323933.5680N 0164550.3960W	2.000
TF	RW05	MAPT	Y	324123.7530N 0164701.5045W	049.132 (044.664)	0.6	-	-	-	-
TF	MA550	-	-	324224.5000N 0164550.4800W	049.137 (044.669)	1.421	-	-	-	-
RF	MA552	-	-	324327.9440N 0164344.1830W	-	2.088	R	MAC10	323931.1360N 0164223.2860W	4.1
RF	MA554	-	-	323506.4730N 0163834.8500W	-	13.159	R	MAC02	323850.7040N 0164209.4860W	4.8
TF	MONEC	-	-	322722.9270N 0164949.3940W	235.473 (231.005)	12.24	-	-	-	-
HM	MONEC	-	-	322722.9270N 0164949.3940W	-	-	L	-	-	-

Waypoint Identifier	Altitude	Speed	RNP Value NM	Navigation Specification	Remarks
PILIM	+3000	230KT	0.3	RNP AR APCH	-
MA530	+2000	-	0.3	RNP AR APCH	-
MA528	+2000	-	0.3	RNP AR APCH	-
MA526	+2000	195 KT	0.3	RNP AR APCH	-
MA522	@2000	160 KT	0.3/0.2/0.1	RNP AR APCH	-
MA520	1200	-	0.3/0.2/0.1	RNP AR APCH	-
MA504	890	-	0.3/0.2/0.1	RNP AR APCH	-
MA502	390	-	0.3/0.2/0.1	RNP AR APCH	-
RW05	-	-	0.3/0.2/0.1	RNP AR APCH	-
MA550	-	-	0.3/0.2/0.1	RNP AR APCH	-
MA552	-	210 KT	0.3/0.2/0.1	RNP AR APCH	-
MA554	-	-	0.3	RNP AR APCH	-
MONEC	+3000	230KT	0.3	RNP AR APCH	-
MONEC	+3000	230KT	0.3	RNP AR APCH	-

RNAV Holding

HLDG ID	INBD TRACK MAG (TRUE)	Turn Direction	MAX IAS (KT)	MAX/MNM HLDG ALT FL/FT(MSL)	TIME (MIN) or DIST OUBD	Controlling Unit
PILIM	226.468 (222.000)	R	230	FL100 / 3000FT	1 MIN	Madeira TWR
MONEC	024.468 (020.000)	L	230	FL100 / 3000FT	1 MIN	Madeira TWR

Stopping at Parking Positions (see table below):
 S70 - A, B, C, D, E
 S40, S41, S42, S43, S71, S73 - A, B, C, D
 S20, S21, S22, S23, S24, S25, S56, S60, S61, S62, S63, S64, S65, S66, S72 - A, B, C
 S38, S57 - A
 Stop Bar Markings are located to the left with 90 degrees angle to the Guide Lines
 Aircraft has to be stopped with the Pilot seat abeam the Stopping Point.

STOPPING AT PARK POSITIONS - COCKPIT										
ICAO	S20 to S25	S38	S40 to S43	S56	S57	S60 to S66	S70	S71	S72	S73
	stop position	stop position	stop position	stop position	stop position	stop position	stop position	stop position	stop position	stop position
F100	B	A	C	B	A	B	D	C		C
B462	C	A	D	C	A	C	E	D		D
B463	C	A	D	C	A	C	E	D		D
A310			B				C		C	
A319	B	A	C	B	A	B	D	C		C
A320	B	A	C	B	A	B	D	C		C
A321	A	A	B	A	A	A	C	B		B
A332									B	
A343									B	
A380									A	
B733	B	A	C	B	A	B	D	C		C
B734	B	A	C	B	A	B	D	C		C
B735	B	A	C	B	A	B	D	C		C
B736	B	A	C	B	A	B	D	C		C
B737	A	A	B	A	A	A	C	B		B
B738	A	A	B	A	A	A	C	B		B
B739	A	A	B	A	A	A	C	B		B
B744									A	
B752			B				C	B		B
B753			A				B	A		A
B763			A				B		B	
B772									A	
A306			A	A			B		B	
AT42	B	A	C	B	A	B	D	C		C
AT72	B	A	C	B	A	B	D	C		C
CRJ2	B	A	C	B	A	B	D	C		C
CRJ9	A	A	B	A	A	A	C	B		B
E135	B	A	C	B	A	C	E	D		D
E145	B	A	C	B	A	C	D	C		C
MD11							A		A	
MD80	A	A	B	A	A	A	C	B		B
MD87	A	A	B	A	A	A	C	B		B

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

LPPR AD 2.10 AERODROME OBSTACLES

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

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.

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

Name	Page
INSTRUMENT APPROACH CHART-ICAO – RNP RWY 35	LPPR AD 2.24.12-9
VISUAL APPROACH CHART-ICAO	LPPR AD 2.24.13-1

AERODROME CHART - ICAO

41°14'08"N
008°40'41"W

ELEV 69 m

PORTO ARR INFORMATION 124.305
PORTO DEP INFORMATION 121.680

PORTO DELIVERY 118.930
PORTO TOWER 118.005

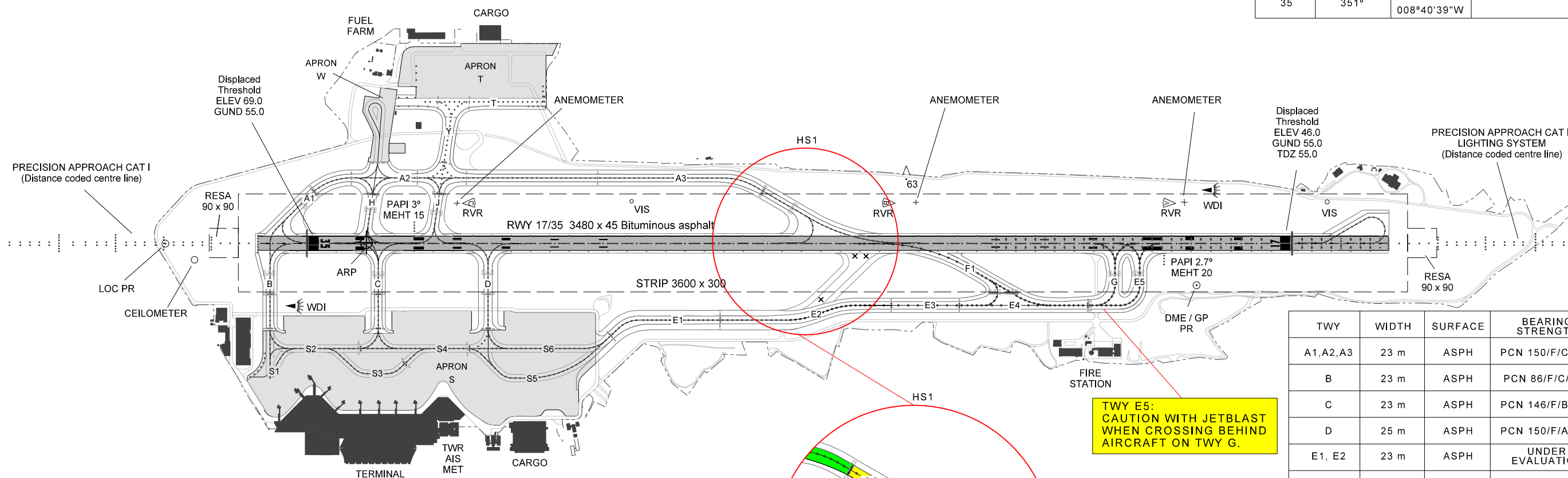
PORTO, Francisco Sá Carneiro (LPPR)

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

VAR 02° W 2020
ANNUAL CHANGE 11' E

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



TWY	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

LEGEND

RWY- holding position marking	Precision APCH RWY CAT III/ 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		○



Closed TWY outline added.

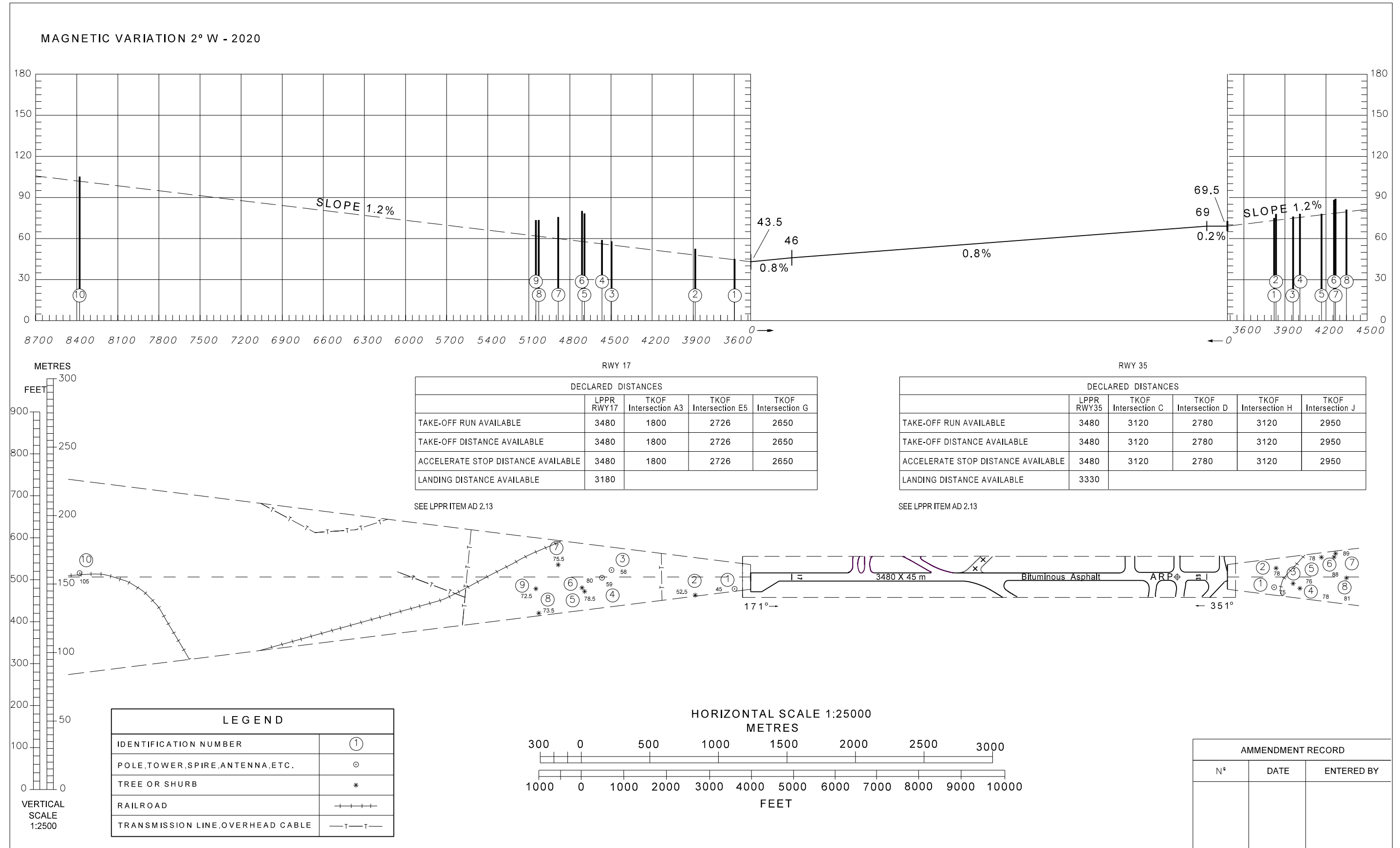
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AERODROME OBSTACLE CHART - ICAO
TYPE A (OPERATING LIMITATIONS)

PORTO, Francisco Sá Carneiro (LPPR)

RWY17/35

DIMENSIONS AND ELEVATIONS IN METRES



Closed TWY outline added.

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LPPS AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH light Type / Length / Intensity	THR Light colour/W BAR	VASIS type	TDZ length	RWY Centre Line Lights Length / spacing / colour/ Intensity	RWY edge Lights Length / spacing / colour/ Intensity	RWY End Lights Colour / WBAR	SWY Light Length / Colour	Remarks
1	2	3	4	5	6	7	8	9	10
18	Simple Approach Lighting system with 420M length and unidirectional light white with cross bar at 300M from threshold. Variable	Green 5 bars at each side of Runway	PAPI -3° Both sides MEHT 14.48M	NIL	NIL	2400M White + 600M Yellow, 30M spacing variable	Red	NIL	NIL
36	Simple Approach Lighting system with 360M length and unidirectional light white with cross bar at 300M from threshold. Variable		PAPI -3° Both sides MEHT 14.48M	NIL	NIL			NIL	NIL

LPPS AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: at TWR Building, FLG W/G, HS
2	LDI location and lighting Anemometer location and lighting	LDI: NIL Anemometers: RWY36: Right Side, 300M THR. Lighted RWY18: Right Side, 300M THR. Lighted
3	TWY edge and centre line lighting	Edge Lights: all Taxiways Centre Line: NIL
4	Secondary power supply/switch-over time	Secondary Power Supply conforms requirements of Annex 14.
5	Remarks	Emergency lights available for Runway. Arresting barrier obstruction lights.

LPPS AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO	NIL
2	TLOF and/or FATO elevation	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True BRG of FATO	NIL
5	Declared distance available	NIL
6	APCH and FATO lighting	NIL
7	Remarks	NIL

LPPS AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	PORTO SANTO CTR A circle with 5NM radius centred at ARP (330415N 0162059W)
2	Vertical limits	2000FT ALT (600M)
3	Airspace classification	C
4	ATS unit call sign / Language(s)	Madeira Approach Porto Santo Tower EN, PT
5	Transition altitude	5000FT
6	Remarks	NIL

LPPS AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
TWR	PORTO SANTO Tower	120.055 MHZ	H24	Primary
		118.755 MHZ	H24	Secondary
		278.950 MHZ	H24	
		121.500 MHZ	H24	Emergency
		243.000 MHZ	H24	Emergency
APP	MADEIRA Approach	119.605 MHZ	HO	Primary
		120.455 MHZ	HO	Secondary
		279.050 MHZ	HO	
		121.500 MHZ	H24	Emergency
		243.000 MHZ	H24	Emergency

LPPS 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 (04° W - 2020)	SNT	114.900 MHZ	H24	330525.5N 0162102.3W		Coverage: 200NM FL500 Not usable: RDL050 BYD 29NM BLW 4000FT RDL066 BYD 31NM BLW 4000FT 070°/170° and 195°/250° BYD 10NM below 9000FT