PORTUGAL

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

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

AIP AMENDMENT: AIRAC 003-25
EFFECTIVE DATE: 15-MAY-2025

1. AIRAC changes incorporated in this AIP Amendment:

GEN

NIL

ENR

1.5	1.5.4 - RADAR PROCEDURES WITHIM LISBOA, PORTO FARO, AND MADEIRA TMA'S - CHANGED.
3.6	EN-ROUTE HOLDING - CHANGED.
4.4	DOZIV, EVPAP, FADEF, FUSSI, MIGFO, NESDU, NETID, VESOB, YETSI AND ZEFFI – NEW POINTS, DIRUP - DELETED.
6	LPPC LOWER AIRSPACE BELOW FL195 – DIRUP DELETED, WEST SECTOR UPDATED. LPPC UPPER AIRSPACE BELOW FL245/FL195 - DIRUP DELETED, WEST SECTOR UPDATED. LPPC FREE ROUTE AIRSPACE ABOVE FL245 - WEST SECTOR - UPDATED.

AD

LPCS	2.22 – 7. HOLDING PROCEDURES - UPDATED. 2.24.10-1 – UPDATED. 2.24.12-3 – HLDG EKMAR (HM).
LPFR	2.3 – REMARKS - CHANGED.
LPGR	2.22 – 4. HOLDING PROCEDURES - UPDATED. 2.24.12-3, 2.24.12-5 – UPDATED.
LPPD	2.22 – 6. HOLDING PROCEDURES – TUSEX CHANGED – NEW HLDGS. 2.24.08-1, 2.24.08-3, 2.24.08-5, 2.24.08-7, 2.24.10-1, 2.24.10-3, 2.24.10-5, 2.24.10-7, 2.24.12-1, 2.24.12-3, 2.24.12-5, 2.24.12-7, 2.24.12-9, 2.24.12-11, 2.24.12-13, 2.24.12-15, 2.24.12-17, 2.24.12-19, 2.24.12-21, 2.24.12-23, 2.24.12-25 – UPDATED. 2.24.12-15, 2.24.12-21, 2.24.12-23 – NEW TEXT INSERTED.
LPPR	2.8 – ACFT TYPE - UPDATED.
LPPS	2.6 – AD CATEGORY FOR FIRE FIGHTING – CHANGED.
LPPT	2.22 – 11. HOLDING PROCEDURES - UPDATED. 2.24.10-1 AND 2.24.10-7 – UPDATED. 2.24.12-10 – NETVO COORD - CHANGED.

NON-AIRAC changes incorporated in this AIP Amendment:

GEN

3.1	EDITORIAL.

3.2 LIST OF AERONAUTICAL CHARTS AVAILABLE - UPDATED.

ENR

NIL

AD

NIL

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

NOTAM Series A: A0477/25, A0530/25, A0531/25, A0536/25, A0564/25, A0565/25, A0563/25, A0599/25, A0600/25, A0601/25, A0748/25, A0805/25, A0820/25.

NOTAM incorporated in this AMDT will be cancelled by NOTAMC on 28-MAY-2025.

SUP: 023/2025, 024/2025, 041/2025.

AIC: NIL

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

Insert the following pages

GEN 0.2 - 1/2	15-MAY-2025
GEN 0.3 - 1/2	15-MAY-2025 / 15-MAY-2025
GEN 0.3 - 3/4	15-MAY-2025 / 15-MAY-2025
GEN 0.4 - 1/2	15-MAY-2025 / 15-MAY-2025
GEN 0.4 - 3/4	15-MAY-2025 / 15-MAY-2025
GEN 3.1 - 5/6	15-MAY-2025 / 15-MAY-2025
GEN 3.2 - 3/4	15-MAY-2025 / 13-JUL-2023
ENR 1.5 - 1/2	02-DEC-2021 / 15-MAY-2025
ENR 1.5 - 3/4	15-MAY-2025
ENR 3.6 - 1/2	15-MAY-2025 / 15-MAY-2025
ENR 4.4 - 3/4	11-JUL-2024 / 15-MAY-2025
ENR 4.4 - 5/6	11-JUL-2024 / 15-MAY-2025
ENR 4.4 - 7/8	15-MAY-2025 / 15-MAY-2025
ENR 4.4 - 9/10	15-MAY-2025 / 15-MAY-2025
ENR 4.4 - 11/12	15-MAY-2025 / 15-MAY-2025
ENR 4.4 - 13/14	15-MAY-2025 / 15-MAY-2025
ENR 4.4 - 15/16	15-MAY-2025 / 15-MAY-2025
ENR 4.4 - 17/18	15-MAY-2025 / 15-MAY-2025
ENR 6.01-1 - 1/2	15-MAY-2025
ENR 6.01-3 - 3/4	15-MAY-2025
ENR 6.01-5 - 5/6	15-MAY-2025
LPCS AD 2 - 11/12	23-JAN-2025 / 15-MAY-2025
LPCS AD 2 - 13/14	15-MAY-2025 / 15-MAY-2025
LPCS AD 2.24.10-1 - 1/2	15-MAY-2025 / 16-MAY-2024
LPCS AD 2.24.10-1 - 3/4	15-MAY-2025
LPCS AD 2.24.12-3 - 3/4	15-MAY-2025 / 15-MAY-2025
LPFR AD 2 - 1/2	20-MAR-2025 / 15-MAY-2025
LPGR AD 2 - 7/8	02-DEC-2021 / 15-MAY-2025
LPGR AD 2 - 9/10	15-MAY-2025
LP_AD_2_LPGR_12-3_en.fm - 3/4	15-MAY-2025 / 15-MAY-2025
LP_AD_2_LPGR_12-5_en.fm - 5/6	15-MAY-2025 / 15-MAY-2025
LPPT AD 2 - 43/44	16-MAY-2024 / 15-MAY-2025
LPPT AD 2 - 45/46	15-MAY-2025 / 15-MAY-2025
LPPT AD 2 - 47/48	15-MAY-2025
LPPT AD 2.24.10-1 - 1/2	15-MAY-2025 / 15-MAY-2025
LPPT AD 2.24.10-1 - 3/4	15-MAY-2025 / 15-MAY-2025
LPPT AD 2.24.10-1 - 5/6	15-MAY-2025 / 15-MAY-2025
LPPT AD 2.24.10-7 - 7/8	15-MAY-2025 / 15-MAY-2025
LPPT AD 2.24.10-7 - 9/10	15-MAY-2025 / 15-MAY-2025
LPPT AD 2.24.10-7 - 11/12	15-MAY-2025 / 15-MAY-2025
LPPT AD 2.24.12-9 - 9/10	16-MAY-2024 / 15-MAY-2025
LPPD AD 2 - 15/16	15-MAY-2025 / 15-MAY-2025
LPPD AD 2 - 17/18	15-MAY-2025
LPPD AD 2.24.08-1 - 1/2	15-MAY-2025 / 01-DEC-2022
LPPD AD 2.24.08-3 - 3/4	15-MAY-2025 / 01-DEC-2022
LPPD AD 2.24.08-5 - 5/6	15-MAY-2025 / 15-MAY-2025
LPPD AD 2.24.08-7 - 7/8	15-MAY-2025 / 14-JUL-2022
LPPD AD 2.24.10-1 - 1/2	15-MAY-2025 / 24-MAR-2022
LPPD AD 2.24.10-3 - 3/4	15-MAY-2025 / 02-DEC-2021
LPPD AD 2.24.10-5 - 5/6	15-MAY-2025 / 24-MAR-2022
LPPD AD 2.24.10-7 - 7/8	15-MAY-2025 / 02-DEC-2021
LPPD AD 2.24.11-1 - 1/2	15-MAY-2025
LPPD AD 2.24.12-1 - 1/2	15-MAY-2025
LPPD AD 2.24.12-3 - 3/4	15-MAY-2025
LPPD AD 2.24.12-5 - 5/6	15-MAY-2025
LPPD AD 2.24.12-7 - 7/8	15-MAY-2025
LPPD AD 2.24.12-9 - 9/10	15-MAY-2025
LPPD AD 2.24.12-11 - 11/12	15-MAY-2025
LPPD AD 2.24.12-13 - 13/14	15-MAY-2025
LPPD AD 2 2.24.12-15 - 15/16	15-MAY-2025 / 15-MAY-2025
LPPD AD 2.24.12-17 - 17/18	15-MAY-2025 / 19-MAY-2022
LPPD AD 2.24.12-19 - 19/20	15-MAY-2025 / 19-MAY-2022
LPPD AD 2.24.12-21 - 21/22	15-MAY-2025 / 15-MAY-2025
LPPD AD 2.24.12-23 - 23/24	15-MAY-2025 / 15-MAY-2025
LPPD AD 2.24.12-25 - 25/26	15-MAY-2025 / 20-MAR-2025
LPPR AD 2 - 5/6	15-MAY-2025 / 31-OCT-2024
LPPS AD 2 - 1/2	20-MAR-2025 / 15-MAY-2025

Remove the following pages

GEN 0.2 - 1/2	20-MAR-2025 / N/A
GEN 0.3 - 1/2	20-MAR-2025 / 20-MAR-2025
GEN 0.3 - 3/4	20-MAR-2025 / 20-MAR-2025
GEN 0.4 - 1/2	20-MAR-2025 / 20-MAR-2025
GEN 0.4 - 3/4	20-MAR-2025 / 20-MAR-2025
GEN 3.1 - 5/6	20-MAR-2025 / 20-MAR-2025
GEN 3.2 - 3/4	13-JUL-2023 / 13-JUL-2023
ENR 1.5 - 1/2	02-DEC-2021 / 30-NOV-2023
ENR 1.5 - 3/4	30-NOV-2023 / N/A
ENR 3.6 - 1/2	16-MAY-2024 / 16-MAY-2024
ENR 4.4 - 3/4	11-JUL-2024 / 11-JUL-2024
ENR 4.4 - 5/6	11-JUL-2024 / 11-JUL-2024
ENR 4.4 - 7/8	11-JUL-2024 / 11-JUL-2024
ENR 4.4 - 9/10	11-JUL-2024 / 11-JUL-2024
ENR 4.4 - 11/12	11-JUL-2024 / 11-JUL-2024
ENR 4.4 - 13/14	23-JAN-2025 / 23-JAN-2025
ENR 4.4 - 15/16	23-JAN-2025 / 23-JAN-2025
ENR 4.4 - 17/18	23-JAN-2025 / 23-JAN-2025
ENR 6.01-1 - 1/2	20-MAR-2025 / N/A
ENR 6.01-3 - 3/4	20-MAR-2025 / N/A
ENR 6.01-5 - 5/6	20-MAR-2025 / N/A
LPCS AD 2 - 11/12	23-JAN-2025 / 23-JAN-2025
LPCS AD 2 - 13/14	20-MAR-2025 / 23-JAN-2025
LPCS AD 2.24.10-1 - 1/2	31-OCT-2024 / 16-MAY-2024
LPCS AD 2.24.10-1 - 3/4	16-MAY-2024 / N/A
LPCS AD 2.24.12-3 - 3/4	16-MAY-2024 / 12-AUG-2021
LPFR AD 2 - 1/2	20-MAR-2025 / 20-MAR-2025
LPGR AD 2 - 7/8	02-DEC-2021 / 20-MAR-2025
LPGR AD 2 - 9/10	20-MAR-2025 / N/A
LP_AD_2_LPGR_12-3_en.fm - 3/4	20-MAR-2025 / 20-MAR-2025
LP_AD_2_LPGR_12-5_en.fm - 5/6	20-MAR-2025 / 20-MAR-2025
LPPT AD 2 - 43/44	16-MAY-2024 / 16-MAY-2024
LPPT AD 2 - 45/46	11-JUL-2024 / 11-JUL-2024
LPPT AD 2 - 47/48	11-JUL-2024 / N/A
LPPT AD 2.24.10-1 - 1/2	16-MAY-2024 / 11-JUL-2024
LPPT AD 2.24.10-1 - 3/4	16-MAY-2024 / 16-MAY-2024
LPPT AD 2.24.10-1 - 5/6	16-MAY-2024 / N/A
LPPT AD 2.24.10-7 - 7/8	16-MAY-2024 / 16-MAY-2024
LPPT AD 2.24.10-7 - 9/10	16-MAY-2024 / 16-MAY-2024
LPPT AD 2.24.10-7 - 11/12	16-MAY-2024 / 16-MAY-2024
LPPT AD 2.24.12-9 - 9/10	16-MAY-2024 / 11-JUL-2024
LPPD AD 2 - 15/16	15-JUN-2023 / 20-MAR-2025
LPPD AD 2 - 17/18	20-MAR-2025 / N/A
LPPD AD 2.24.08-1 - 1/2	06-OCT-2022 / 01-DEC-2022
LPPD AD 2.24.08-3 - 3/4	14-JUL-2022 / 01-DEC-2022
LPPD AD 2.24.08-5 - 5/6	14-JUL-2022 / 06-OCT-2022
LPPD AD 2.24.08-7 - 7/8	14-JUL-2022 / 14-JUL-2022
LPPD AD 2.24.10-1 - 1/2	02-DEC-2021 / 24-MAR-2022
LPPD AD 2.24.10-3 - 3/4	02-DEC-2021 / 02-DEC-2021
LPPD AD 2.24.10-5 - 5/6	24-MAR-2022 / 24-MAR-2022
LPPD AD 2.24.10-7 - 7/8	24-MAR-2022 / 02-DEC-2021
LPPD AD 2.24.11-1 - 1/2	20-MAR-2025 / N/A
LPPD AD 2.24.12-1 - 1/2	14-JUL-2022 / N/A
LPPD AD 2.24.12-3 - 3/4	14-JUL-2022 / N/A
LPPD AD 2.24.12-5 - 5/6	02-DEC-2021 / N/A
LPPD AD 2.24.12-7 - 7/8	02-DEC-2021 / N/A
LPPD AD 2.24.12-9 - 9/10	02-DEC-2021 / N/A
LPPD AD 2.24.12-11 - 11/12	02-DEC-2021 / N/A
LPPD AD 2.24.12-13 - 13/14	02-DEC-2021 / N/A
LPPD AD 2 2.24.12-15 - 15/16	20-MAR-2025 / 20-MAR-2025
LPPD AD 2.24.12-17 - 17/18	24-MAR-2022 / 19-MAY-2022
LPPD AD 2.24.12-19 - 19/20	24-MAR-2022 / 19-MAY-2022
LPPD AD 2.24.12-21 - 21/22	20-MAR-2025 / 20-MAR-2025
LPPD AD 2.24.12-23 - 23/24	20-MAR-2025 / 20-MAR-2025
LPPD AD 2.24.12-25 - 25/26	20-MAR-2025 / 20-MAR-2025
LPPR AD 2 - 5/6	31-OCT-2024 / 31-OCT-2024
LPPS AD 2 - 1/2	20-MAR-2025 / 20-MAR-2025

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GEN 0.2 RECORD OF AIP AMENDMENTS

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

AIRAC AIP AMENDMENT			
NR/Year	*Publication date*	*Effective Date*	*Inserted by*
003/2020	24-Sep-2020	05-Nov-2020	
004/2020	22-Oct-2020	03-Dec-2020	
001/2021	14-Jan-2021	25-Feb-2021	
002/2021	08-Apr-2021	20-May-2021	
003/2021	01-Jul-2021	12-Aug-2021	
004/2021	26-Aug-2021	07-Oct-2021	
005/2021	21-Oct-2021	02-Dec-2021	
001/2022	10-Feb-2022	24-Mar-2022	
002/2022	24-Mar-2022	19-May-2022	
003/2022	02-Jun-2022	14-Jul-2022	
004/2022	25-Aug-2022	06-Oct-2022	
005/2022	20-Oct-2022	01-Dec-2022	
001/2023	09-Feb-2023	23-Mar-2023	
002/2023	04-May-2023	15-Jun-2023	
003/2023	01-Jun-2023	13-Jul-2023	
004/2023	29-Jun-2023	10-Aug-2023	
005/2023	19-Oct-2023	30-Nov-2023	
001/2024	11-Jan-2024	22-Feb-2024	
002/2024	21-Mar-2024	16-May-2024	
003/2024	30-May-2024	11-Jul-2024	
004/2024	19-Sep-2024	31-Oct-2024	
001/2025	12-Dec-2024	23-Jan-2025	
002/2025	06 FEB 2025	20 MAR 2025	
003/2025	03 APR 2025	15 MAY 2025	

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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 UFN	
013/2013	LPPC - OBSTACLE ERECTED IN LISBOA (CITY)	ENR	27-JUN-2013 UFN	
014/2013	LPPC - OBSTACLE LIGHTS OUT OF SERVICE	ENR	27-JUN-2013 UFN	
013/2018	LPVR AD - RWY 02 APCH LIGHTS OUT OF SERVICE	AD	02-FEB-2018 UFN	
031/2018	LPPO FIR - DVORTAC VFL TACAN PART OUT OF SERVICE	AD, ENR	13-SEP-2018 UFN	
054/2018	LPLA AD - INSTRUMENT APPROACH PROCEDURES CHANGED	AD	07-DEC-2018 UFN	
007/2020	LPLA - METAR WIND INFORMATION LIMITATIONS	AD	03-JAN-2020 UFN	
024/2020	LPBJ AD - LANDING AREA LIGHTING ACTIVATION DELAYS	AD	19-JUN-2020 UFN	
032/2020	LPPC FIR - OFFSHORE WIND FARM	ENR	19-JUN-2020 UFN	
044/2020	LPBJ AD - THR IDENTIFIER LIGHTS U/S	AD	05-NOV-2020 UFN	
002/2021	LPPC FIR - ATS CONTINGENCY ROUTES FOR MADEIRA SECTOR DUE TO RADAR INOPERATIVE	ENR	26-FEB-2021 UFN	
072/2021	LPPT AD - TAXIWAY K CLOSED	AD	02-DEC-2021 UFN	
001/2022	LPBJ AD - FIRE FIGHTING AND RESCUE	AD	24-MAR-2022 UFN	
019/2022	LPBJ AD - TWY H EDGE LIGHTS U/S	AD	19-MAY-2022 UFN	
004/2023	LPLA AD - OBSTACLES (ANTENNAS)	AD	27-JAN-2023 UFN	
027/2023	LPFR AD - STAND CLOSED	AD	23-MAR-2023 UFN	
030/2023	LPPS AD - RWY 18 TURN PAD CLOSED	AD	23-MAR-2023 UFN	
038/2023	LPPR AD – NON-STANDARD PARKING ON STAND S42	AD	26-MAR-2023 17-MAR-2025	NOTAM A1063/25
062/2023	LPPT AD - OBSTACLES ERECTED	AD	10-AUG-2023 31-JUL-2025 EST	
003/2024	LPPC FIR - OBSTACLE ERECTED	ENR	22-FEB-2024 31-DEC-2025 EST	
006/2024	LPPT AD - OBSTACLE ERECTED	AD	22-FEB-2024 30-JUN-2025 EST	
007/2024	LPPT AD - OBSTACLE ERECTED	AD	22-FEB-2024 31-MAY-2025 EST	
008/2024	LPPT AD - OBSTACLE ERECTED	AD	22-FEB-2024 31-MAY-2025 EST	
038/2024	BELARUSSIAN AIRCRAFT RESTRICTIONS	ENR	16-MAY-2024 14-MAY-2025	AIP SUP 046/2025

NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
042/2024	LPPT AD – CRANE ERECTED (CAMPO NOVO)	AD	16-MAY-2024 14-MAY-2025	AIP SUP 045/2025
046/2024	LPPT AD - OBSTACLE ERECTED	AD	11-JUL-2024 26-OCT-2025 EST	
057/2024	LPPT AD - OBSTACLE ERECTED	AD	31-OCT-2024 01-AUG-2025 EST	
059/2024	LPPC FIR - OBSTACLES ERECTED	ENR	31-OCT-2024 14-MAY-2025	AIP SUP 044/2025
060/2024	LPBJ AD - OBSTACLE LIGHTS U/S	AD	31-OCT-2024 UFN	
062/2024	LPPS AD - PAVEMENT STRUCTURE LIMITATIONS	AD	31-OCT-2024 30-JUN-2025 EST	
064/2024	LPPI AD - RWY AND APCH LIGHTS CONTROL N/A	AD	31-OCT-2024 30-JUN-2025 EST	
065/2024	LPPI AD - RTIL RWY 09/27 U/S	AD	31-OCT-2024 30-JUN-2025 EST	
066/2024	LPPC FIR - OBSTACLE ERECTED (TOWER) - ALPIARÇA - SANTARÉM	ENR	31-OCT-2024 21-NOV-2025 EST	
067/2024	LPPC FIR – OBSTACLE ERECTED (TWO TOWERS) - HERDADE DA LAMPREIA - ABRANTES	ENR	31-OCT-2024 31-MAY-2025 EST	
068/2024	LPPC FIR - OBSTACLE ERECTED (TOWER) - SOUSEL	ENR	31-OCT-2024 30-JUN-2025 EST	
070/2024	LPPT AD - OBSTACLE ERECTED (CRANE-GT1)	AD	31-OCT-2024 31-MAR-2026 EST	
075/2024	LPBJ AD - OBSTACLE ERECTED	AD	31-OCT-2024 UFN	
076/2024	UKRANIAN CRISIS - FIR RESTRICTIONS	ENR	31-OCT-2024 26-SEP-2025 EST	
082/2024	LPCS AD - USE OF TERMINAL BUILDING	AD	31-OCT-2024 14-MAY-2025	AIP SUP 043/2025
083/2024	LPPT AD - MAJOR WORKS - EXTENSION OF APRON 10 AND NEW APRON 23	AD	31-OCT-2024 UFN	
085/2024	RUSSIAN FEDERATION - OPERATION RESTRICTIONS IN PORTUGUESE TERRITORY	AD	31-OCT-2024 14-MAY-2025	AIP SUP 042/2025
001/2025	LPPC FIR - OBSTACLE ERECTED (TOWER 2) - SOUSEL	ENR	23-JAN-2025 26-SEP-2025 EST	
002/2025	LPPR AD - RWY 17/35 CLOSED	AD	23-JAN-2025 23-NOV-2025 EST	
003/2025	LPPR AD - MOBILE CRANE ERECTED	AD	23-JAN-2025 01-AUG-2025 EST	
004/2025	VOR/DME VSM VOR PART U/S	ENR, AD	23-JAN-2025 31-DEC-2025 EST	
005/2025	LPPT AD - OBSTACLE ERECTED (CRANE)	AD	23-JAN-2025 30-JUN-2025 EST	
006/2025	LPCS AD - OBSTACLE ERECTED	AD	23-JAN-2025 14-MAY-2025	AIP SUP 048/2025
007/2025	LPSO AD - TOWER ERECTED	AD	23-JAN-2025 31-MAR-2026 EST	
008/2025	LPPR AD - A-SMGCS DOWNGRADED	AD	23-JAN-2025 30-JUN-2025 EST	
009/2025	LPPT TMA - VFR ROUTE CLOSED (TNW)	ENR	23-JAN-2025 31-DEC-2025 EST	

NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
010/2025	LPPT TMA - VFR LIMITATIONS	ENR	23-JAN-2025 31-DEC-2025 EST	
011/2025	LPPS AD - IAP PART LPV RWY 18/36 SUSPENDED	ENR	23-JAN-2025 31-DEC-2025 EST	
012/2025	LPMA AD - FUEL 100LL NOT AVAILABLE	AD	23-JAN-2025 31-DEC-2025 EST	
013/2025	LPPT AD - ACFT CODE D AND CODE E TWY RESTRICTIONS	AD	23-JAN-2025 31-DEC-2025 EST	
014/2025	LPPR AD - RETIL U/S	AD	23-JAN-2025 31-DEC-2025 EST	
015/2025	LPCS AD - OBSTACLE ERECTED	AD	23-JAN-2025 30-JUN-2025 EST	
016/2025	LPPC FIR - OBSTACLE LIGHTING INOP	ENR	23-JAN-2025 30-JUN-2025 EST	
017/2025	LPPR AD - OBSTACLE LIGHTS U/S	AD	23-JAN-2025 31-DEC-2025 EST	
018/2025	LPAZ AD - TWR OBSTACLE LIGHTS U/S	AD	23-JAN-2025 31-DEC-2025 EST	
019/2025	LPCS AD - OBSTACLE ERECTED (EN 227-5)	AD	23-JAN-2025 31-AUG-2025 EST	
020/2025	LPEV AD - PAPI RWY 19 U/S	AD	23-JAN-2025 30-JUN-2025 EST	
021/2025	LPPT AD - OBSTACLE ERECTED (CIDADE UNIVERSITÁRIA DE LISBOA - CRANE 3)	AD	23-JAN-2025 31-JUL-2026 EST	
022/2025	LPPS AD - DELAYS ON UNSCHEDULED FLIGHTS	AD	23-JAN-2025 31-MAR-2025 EST	
023/2025	LPPR AD – STAND S40 DOWNGRADED	AD	23-JAN-2025 14-MAY-2025	AIP AMDT 003/2025
024/2025	LPPS AD - FIRE FIGHTING AND RESCUE DOWNGRADED	AD	23-JAN-2025 14-MAY-2025	AIP AMDT 003/2025
025/2025	LPPD AD - STOPBAR TWY “E”	AD	23-JAN-2025 30-JUN-2025 EST	
026/2025	LPPC FIR - UNMANNED AERIAL VEHICLE ACTIVITY	FIR	23-JAN-2025 31-DEC-2025	
027/2025	LPPC FIR - UNMANNED AIRCRAFT SYSTEMS (UAS) WITHIN R51BN/R51BS (LPBJ)	FIR	23-JAN-2025 31-DEC-2025	
028/2025	LPPC FIR - UNMANNED AIRCRAFT SYSTEMS (UAS)	FIR	23-JAN-2025 31-DEC-2025	
030/2025	LPPC FIR - UNMANNED AIRCRAFT SYSTEMS (UAS) WITHIN LPR43C	ENR	20-MAR-2025 31-DEC-2025 EST	
031/2025	LPPC FIR - UNMANNED AERIAL VEHICLE ACTIVITY	ENR	20-MAR-2025 31-DEC-2025 EST	
032/2025	LPMA AD - TEMPORARY PARKING RESTRICTIONS	AD	20-MAR-2025 15-JAN-2026 EST	
033/2025	LPFR AD - OBSTACLE ERECTED	AD	20-MAR-2025 31-DEC-2025 EST	
034/2025	LPEV AD - RWY 07/25 CLOSED	AD	20-MAR-2025 31-DEC-2025 EST	
035/2025	LPPT AD - OBSTACLE ERECTED (CRANE) - ENTRECAMPOS	AD	20-MAR-2025 31-MAY-2025 EST	
036/2025	LPPT AD – MAJOR WORKS - EXTENSION OF APRON 10 AND NEW APRON 23	AD	20-MAR-2025 31-AUG-2025 EST	

NR/Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
037/2025	LPPD AD - STOPBAR TWY “C”	AD	20-MAR-2025 30-JUN-2025 EST	
038/2025	LPPT AD - OBSTACLE ERECTED (CIDADE UNIVERSITÁRIA DE LISBOA - CRANE 2)	AD	20-MAR-2025 31-JUL-2026 EST	
039/2025	LPPD AD - OBSTACLE ERECTED (R. DIREITA DO RAMALHO - PONTA DELGADA)	AD	20-MAR-2025 30-SEP-2025 EST	
040/2025	LPPT AD - RWY 20 BARRETTE APCH LIGHTING SYSTEM	AD	20-MAR-2025 31-DEC-2025 EST	
041/2025	LPPD AD - NEW ATCSMAC	AD	20-MAR-2025 14-MAY-2025	AIP AMDT 003/2025
042/2025	RUSSIAN FEDERATION - OPERATION RESTRICTIONS IN PORTUGUESE TERRITORY	FIR	15-MAY-2025 28-FEB-2026 EST	
043/2025	LPCS AD - USE OF TERMINAL BUILDING	AD	15-MAY-2025 31-DEC-2025 EST	
044/2025	LPPC FIR - OBSTACLES ERECTED	FIR	15-MAY-2025 31-MAR-2026 EST	
045/2025	LPPT AD – CRANE ERECTED (CAMPO NOVO)	AD	15-MAY-2025 30-SEP-2025 EST	
046/2025	BELARUSSIAN AIRCRAFT RESTRICTIONS	FIR	15-MAY-2025 28-FEB-2026 EST	
047/2025	LPPC FIR - OBSTACLE ERECTED (CRANE)	FIR	15-MAY-2025 31-JAN-2026 EST	
048/2025	LPCS AD - OBSTACLE ERECTED	AD	15-MAY-2025 31-AUG-2025 EST	

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LPMA AD 2.24.12 - 10	25-FEB-2021
LPMA AD 2.24.12 - 11	06-OCT-2022
LPMA AD 2.24.12 - 12	25-FEB-2021
LPMA AD 2.24.12 - 13	06-OCT-2022
LPMA AD 2.24.12 - 14	25-FEB-2021
LPMA AD 2.24.13 - 1	06-OCT-2022
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LPMA AD 2.24.13 - 5	06-OCT-2022
LPMA AD 2.24.13 - 7	06-OCT-2022
LPMA AD 2.24.13 - 9	06-OCT-2022
LPMA AD 2.24.13 - 11	06-OCT-2022
LPPI AD 2 - 1	20-MAR-2025
LPPI AD 2 - 2	20-MAR-2025
LPPI AD 2 - 3	12-AUG-2021
LPPI AD 2 - 4	12-AUG-2021
LPPI AD 2 - 5	21-JUN-2018
LPPI AD 2 - 6	20-MAR-2025
LPPI AD 2 - 7	28-MAR-2019
LPPI AD 2 - 8	01-DEC-2022
LPPI AD 2 - 9	12-AUG-2021
LPPI AD 2 - 10	10-AUG-2023
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LPPI AD 2.24.02 - 1	02-DEC-2021
LPPI AD 2.24.04 - 1	02-DEC-2021
LPPI AD 2.24.12 - 1	14-JUL-2022
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LPPD AD 2 - 5	02-DEC-2021
LPPD AD 2 - 6	20-MAR-2025

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LPPD AD 2 - 7	01-DEC-2022
LPPD AD 2 - 8	14-JUL-2022
LPPD AD 2 - 9	22-FEB-2024
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LPPD AD 2 - 13	12-AUG-2021
LPPD AD 2 - 14	12-AUG-2021
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LPPD AD 2 - 17	15-MAY-2025
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LPPD AD 2.24.08 - 2	01-DEC-2022
LPPD AD 2.24.08 - 3	15-MAY-2025
LPPD AD 2.24.08 - 4	01-DEC-2022
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LPPD AD 2.24.10 - 4	02-DEC-2021
LPPD AD 2.24.10 - 5	15-MAY-2025
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LPPD AD 2.24.10 - 7	15-MAY-2025
LPPD AD 2.24.10 - 8	02-DEC-2021
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LPPD AD 2.24.12 - 18	19-MAY-2022
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LPPS AD 2.24.08 - 4	25-FEB-2021
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LPVR AD 2.24.12 - 1	19-MAY-2022
LPVR AD 2.24.12 - 2	19-MAY-2022
LPVR AD 2.24.13 - 1	19-MAY-2022

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 receive 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

2025	2026	2027	2028	2029
23 JAN	22 JAN	21 JAN	20 JAN	18 JAN
20 FEB	19 FEB	18 FEB	17 FEB	15 FEB
20 MAR	19 MAR	18 MAR	16 MAR	15 MAR
17 APR	16 APR	15 APR	13 APR	12 APR
15 MAI	14 MAI	13 MAI	11 MAI	10 MAI
12 JUN	11 JUN	10 JUN	8 JUN	7 JUN
10 JUL	9 JUL	8 JUL	6 JUL	5 JUL
7 AUG	6 AUG	5 AUG	3 AUG	2 AUG
4 SET	3 SEP	2 SEP	31 AUG	30 AUG
2 OCT	1 OCT	30 SEP	28 SEP	27 SEP
30 OUT	29 OCT	28 OCT	26 OCT	25 OCT
27 NOV	26 NOV	25 NOV	23 NOV	22 NOV
25 DEC	24 DEC	23 DEC	21 DEC	20 DEC

3.1.5 Pre-flight information services at aerodromes/heliports

ARO Portugal is the unit responsible for Pre-Flight Information for the aerodromes/heliports briefing coverage on the table below.

Aerodrome/Heliport Briefing Coverage - ARO Portugal:

•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 Principe, 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.

Self-Briefing is available through FPL and Briefing internet system on https://ais.nav.pt/ or https://fplbriefing.nav.pt to facilitate the provision of automated Pre-Flight Information Bulletins (PIB), Publications and filing Flight Plans.

Daily pre-flight information Aerodrome, Area, Route and Narrow Route bulletins (PIB) and lists of valid NOTAM are also available through ARO Portugal.

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.

significant obstacles, elements of ATS systems, prohibited, restricted and dangerous areas, and radio navigation aids. The chart provides the information needed for visual air navigation and may be also used as a pre-flight planning chart.

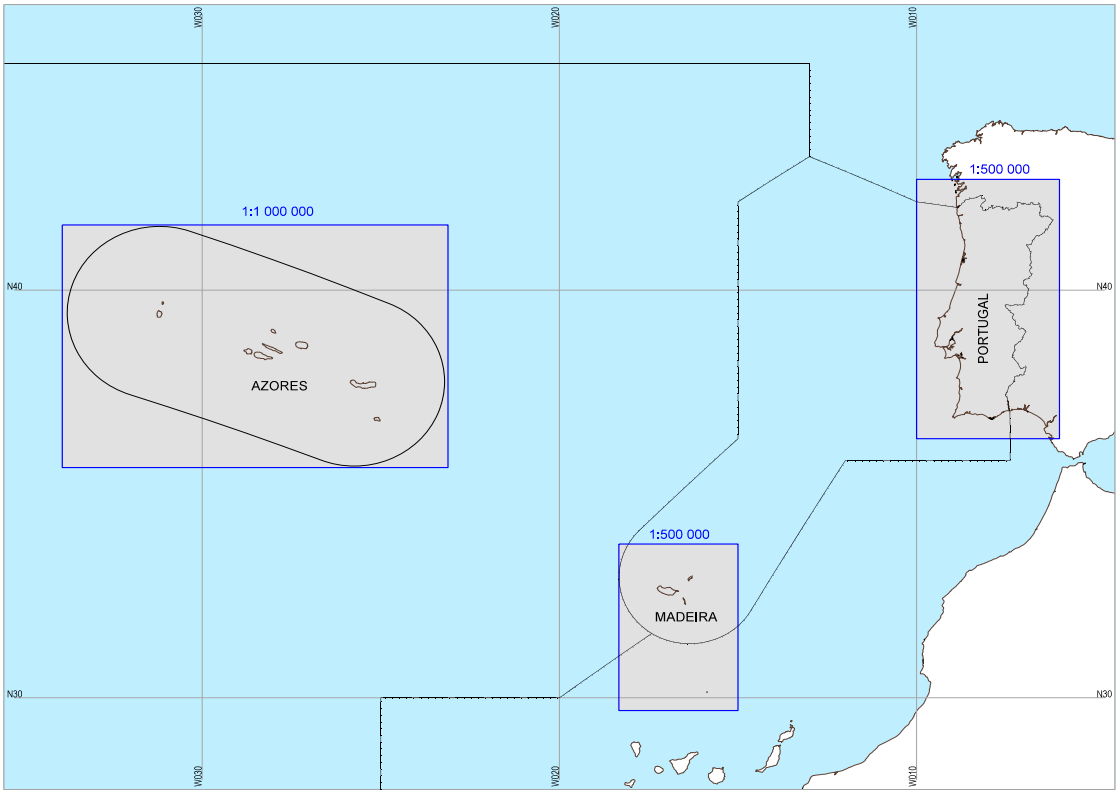
- **ATC Surveillance Minimum Altitude Chart - ICAO (ATCSMAC):** This chart is supplementary to the Area Chart and provides information which will enable flight crews to monitor and cross-check altitudes assigned while under radar control.
- **Visual Approach and Landing Chart (VALC):** For the particular operation of approach and landing at LPMA, a special visual approach chart was created, very similar to the VAC-ICAO, but with a higher scale.
- **Visual Take-off Chart (VTOF):** For the particular operation of take off at LPMA, a special take-off chart was created, very similar to the VAC-ICAO, but with a higher scale.

3.2.5 List of aeronautical charts available

A detailed list of charts related to each individual airport is given in the relevant aerodrome subsection, AD 2 item 2.24.
A detailed list of charts related to en-route and area can be seen at ENR 6.
In addition, the following charts (not published in the AIP) are available:.

AERONAUTICAL CHARTS ICAO			
Scale	Name and/or Number	Provider	Date
1:500 000	PORTUGAL Mainland (2318) PORTO and (2347) LISBOA	NAV Portugal	MAY 2022
1:500 000	PORTUGAL-MADEIRA Archipelago (2418/2419)	NAV Portugal	DECEMBER 2023
1:500 000 / 1:1 000 000	PORTUGAL-AZORES Archipelago (2350/2351)	NAV Portugal	DECEMBER 2023

3.2.6 Index of the Aeronautical Chart - ICAO 1:500 000 and 1.000.000



3.2.7 Topographical Charts

Supplementing the Aeronautical Charts a large variety of topographical charts are available from:

DGT – Direção Geral do Território

URL:http://www.dgterritorio.pt

CIGeoE - Centro de Informação Geoespacial do Exército

URL:https://www.igeoe.pt

3.2.8 Corrections to Charts not contained in the AIP

Corrections to the Aeronautical Charts ICAO (ANC), are published in Aeronautical Chart Amendment Documents, available at:

Chart	URL
PORTUGAL - Mainland AERONAUTICAL CHART ICAO 1:500 000	https://ais.nav.pt/wp-content/uploads/AIS_Files/ANC_Amendments/ANC_Portugal_Continente_AMDT.zip
PORTUGAL - Madeira Archipelago AERONAUTICAL CHART ICAO 1:500 000	https://ais.nav.pt/wp-content/uploads/AIS_Files/ANC_Amendments/ANC_Portugal_Madeira_AMDT.zip
PORTUGAL - Azores Archipelago AERONAUTICAL CHART ICAO 1:500 000 / 1:1 000 000	https://ais.nav.pt/wp-content/uploads/AIS_Files/ANC_Amendments/ANC_Portugal_Acores_AMDT.zip

The latest aeronautical information can be obtained by consulting the AIP, VFR Manual and NOTAM as appropriate.

ENR 1.5 HOLDING, APPROACH AND DEPARTURE PROCEDURES

1.5.1 General

The holding, approach and departure procedures in use are based on those contained in the latest edition of ICAO PANS-OPS Doc. 8168 - Volume III.

1.5.2 Arriving flights

IFR flights entering and landing within a Terminal Control Area will be cleared to a specified holding point and instructed to contact Approach Control at specified time, level or position: the terms of this clearance shall be adhered to until further instructions are received from Approach Control. If the clearance limit is reached before further instructions have been received, holding procedures shall be carried out at the level last authorized.

Due to the limited airspace available, it is of importance that the approaches to the patterns and the holding procedures are carried out as exactly as possible. Pilots are strongly requested to inform ATC if for any reason the approach and/or holding cannot be performed as required.

1.5.3 Departing flights

IFR flights departing from controlled aerodromes will receive initial clearance from the local Aerodrome Control Tower. The clearance limit will normally be the aerodrome of destination.

IFR flights departing from non-controlled aerodromes will not take-off without prior arrangements with the Area Control Centre concerned.

Detailed instructions will be issued with regard to routes, turns, etc., after take-off, except on those cases where SID's are published and applicable.

IFR flights departing from controlled aerodromes, by day only and having due regard to prevailing meteorological conditions, may be cleared for a visual departure maintaining terrain clearance visually until MSA or Minimum Vectoring Altitude.

Phraseologies

If initiated by ATC:

ATC	Pilot (if able to accept)	Pilot (if unable to accept)
Expect visual departure	Expecting visual departure	Unable

If initiated by the pilot:

Pilot	ATC	ATC (if unable to approve)
Request visual departure	Expect visual departure	Unable to approve

1.5.4 Other relevant information and procedures

1. **SPECIAL PROCEDURES**

The inbound, transit and outbound routes shown in ENR 3.6 , may be varied at the discretion of ATC.

If necessary, in case of congestion, inbound aircraft may also be instructed to hold at one of the designated airways reporting points.

2. **RADAR PROCEDURES WITHIN LISBOA, PORTO, FARO AND MADEIRA TMAs**

a) Within LISBOA FIR TMAs, unless otherwise advised by ATC, Speed Adjustment under Radar Control on Arrivals to Alverca (LPAR), Cascais (LPCS AD 2.22), Faro (LPFR AD 2.22), Lisboa (LPPT AD 2.22), Madeira (LPMA AD 2.22), Montijo (LPMT), Porto (LPPR AD 2.22) and Porto Santo (LPPS AD 2.22) shall be in accordance with the following:

1. Maximum IAS 280KT between FL245 and FL100;

2. Maximum IAS 250KT at and below FL100;

3. Maximum IAS 220KT at and below FL070;

4. Maximum IAS 200KT at and below 4000FT;

5. Operators must strictly comply with speeds restrictions published on approach charts;
When speed restrictions are not published on approach charts, speed adjustments shall be in accordance with the following:
- Max IAS 180KT at IF (Intermediate Fix);
- Max IAS 160 KT at 4NM from threshold.

Within LISBOA FIR TMAs, unless otherwise advised by ATC, speed adjustment under Radar Control on Departures from Cascais (LPCS AD 2.22) and Lisboa (LPPT AD 2.22) shall be in accordance with the following:

1. Maximum IAS 250KT at and below FL100 is applicable unless otherwise advised by ATC. Military Flights are exempted.

If for any reason pilots are unable to comply with the 250KT IAS restriction the pilot should immediately advise ATC and state the minimum acceptable speed. If pilots anticipate before departure that they will be unable to comply with the speed restriction, they should inform ATC when requesting Start-Up clearance, stating the minimum speed acceptable.

Additionally, ATC may request specific speeds for accurate spaces.

Noise abatement procedures apply regardless of the speed limit restriction.

b) Radar Vectoring and sequencing

Normally, aircraft will be vectored and sequenced from any point of a STAR procedure to the appropriate final approach track, so as to ensure an expeditious flow of traffic. Radar vectors and flight levels/altitudes will be issued, as required, for spacing, and separating the aircraft, so that correct landing intervals are maintained, taking into account aircraft characteristics.

NOTE: Details for the provision of radar services are described in ENR 1.6 .

3. **WEATHER MINIMA**

An approach-to-land as well as a landing clearance will be issued regardless of weather conditions.

If no visual contact is established at the OCL, appropriate missed approach procedure shall be initiated.

There are no weather requirements for take-off, except that the pilot shall have sufficient visibility to continually align the aircraft with the axis of the runway.

Operators shall establish their own meteorological minima for each aerodrome to be used, and shall report them to “Autoridade Nacional da Aviação Civil - ANAC” for approval, when lower than these specified in the AIP-Portugal.

NOTE: Exception is made at Madeira Airport where take-off and landing minima are specified on corresponding AIP charts.

4. **RNAV (GNSS) INSTRUMENT APPROACH PROCEDURES**

RNP APCH is charted as RNAV (GNSS). To be approved to fly a RNAV (GNSS) approach procedure, not only the crew must comply with the requirements expressed in the AMC 20-27 (EASA) as well as the aircraft must be equipped with a GNSS/GPS based RNAV system, certified in compliance with the RNP specification for the RNP APCH.

Operators shall have procedures in place (ASRs - Air Safety Reports) to report database errors. The information related with database errors shall be also be sent to Direção de Segurança Operacional of ANAC.

In order to avoid that in certain circumstances, because of GNSS unavailability or abnormal signal reception while performing a RNAV (GNSS) approach , users are unable to land at their destination aerodrome, pilots are requested to provide information to the ATS unit whenever the quality of the satellite constellation is not sufficient for the intended approach-to-land procedure, and request ‘contingency procedures’ (i.e. proceeding with ground based navigational sources and/or radar vectors).

An aerodrome with only a RNAV (GNSS) approach cannot be chosen when selecting it as departure alternate aerodrome.

A minima line is provided for each of available approach procedure type at a specific runway:

- NPA - Lateral navigation (LNAV) or Localizer performance (LP) minima line;
- APV Baro - LNAV/VNAV (Lateral navigation/Vertical navigation) minima line;

- APV SBAS - Localizer performance with vertical guidance (LPV) minima line.

For LNAV and Baro-VNAV, the effective use of the procedure shall be based on the information of the actual availability of GNSS signal detected on board the aircraft by RAIM (ABAS system equipped) or equivalent function.

Pilot that have informed ATS of the intention to fly a RNAV (GNSS) approach procedure, and an in-flight RAIMprediction indicates that RAIM will not be available at the expected approach time shall advise ATS and specify intentions as soon as practicable (delay the approach, use another navigational source IAP, or alternate).

If a RAIM alert is displayed when the aircraft is established on the final approach course, pilot shall not continue the approach using GNSS guidance.

Prediction of possible missing RAIM may be found:

- using the internet on the Eurocontrol GPS Predictive RAIM Tool address:

  URL:http://augur.ecacnav.com

- through appropriate NOTAM issued by NAV Portugal AIS with the predicted unavailability periods of satellites in GPS constellation.

For LNAV approaches, in some cases, particularly in aerodromes located in the Portuguese islands, due to terrain constraints on one side of the aerodrome, a circling may be performed and the missed approach point may be established up to 3 NM from the runway threshold.

For LPV approach procedures, the effective use of the procedure shall be based on the information on actual level of service of EGNOS.

For LPV operations using EGNOS vertical guidance, the service area, covering Portugal Mainland, is detailed in Safety of Life Service Definition Document:

URL:http://www.essp-sas.eu/service_definition_documents/

Upon preparation of a flight bound for an aerodrome with a RNAV (GNSS) approach leading to LPV minima, the approach availability shall be checked by the operator. For this purpose, they must use information contained in EGNOS NOTAMs specifying EGNOS service unavailability.

To perform a RNAV (GNSS) approach leading to LPV minima, it is not required to perform a RAIM forecast because the integrity is directly managed by geostationary EGNOS satellites.

EGNOS NOTAM are issued for each aerodrome with a RNAV (GNSS) procedure with LPV minima. The condition of GPS satellites and EGNOS infrastructure is periodically assessed in order to issue NOTAM if necessary. In addition to EGNOS NOTAM, it is also recommended to consult EGNOS service notifications available on web site:

URL:http://www.essp-sas.eu/service_notices/

In case of expected unavailability of EGNOS NOTAM, LPV minima are no longer accessible and the crew must use other means of navigation, for instance NPA with LNAV minima (which is not dependable on EGNOS), choose another destination, or, hold the flight.

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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	280	FL 150 FL 999	11 NM	Lisboa ACC 132.255 MHZ
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030	RIGHT	280	FL 150 FL 999	1.5 MIN	Lisboa ACC 136.030 MHZ
ESUTI ESUTI 375136N0102549W	049°	LEFT	280	FL 250 FL 290	1.5 MIN	Lisboa ACC 131.325 MHZ
EXONA EXONA 385416N0080100W	245°	RIGHT	265	FL 150 FL 290	1.5 MIN	Lisboa ACC 136.030 MHZ
FARO/VFA FARO DVOR/DME 370049N0075830W	282°	LEFT	280	FL 150 FL 999	1.5 MIN	Lisboa ACC 125.550 MHZ
FARO/VFA FARO DVOR/DME 370049N0075830W	102°	RIGHT	280	FL 150 FL 999	1.5 MIN	Lisboa ACC 125.550 MHZ
FUSUL FUSUL 323605N0163943W RDL170-DME09 FUN DVOR/DME	350°	LEFT	280	FL 150 FL 999	12 NM	Lisboa ACC 132.255 MHZ
HORTA/HT HORTA L 383112N0283746W	055°	LEFT	280	FL 150 FL 999	1.5 MIN	Santa Maria OAC 132.150 MHZ
HORTA/VFL HORTA DVORTAC 383110N0283725W	055°	LEFT	280	FL 150 FL 999	1.5 MIN	Santa Maria OAC 132.150 MHZ
INBOM INBOM 400007N0081807W	192°	LEFT	280	FL 150 FL 290	1.5 MIN	Lisboa ACC 132.305 MHZ
IXUVA IXUVA 411104N0095109W RDL266-DME53 PRT DVOR/DME	086°	RIGHT	265	FL 150 FL 280	11 NM	Lisboa ACC 131.325 MHZ
LAZET LAZET 385526N0104016W	095°	RIGHT	280	FL 250 FL 280	1.5 MIN	Lisboa ACC 131.325 MHZ
LUVUP LUVUP 374313N0101007W	047°	LEFT	280	FL 250 FL 290	1.5 MIN	Lisboa ACC 131.325 MHZ
PORTO/PRT PORTO DVOR/DME 411623N0084116W	171°	RIGHT	280	FL 250 FL 280	11 NM	Lisboa ACC 132.305 MHZ

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
SANTA MARIA/VSM SANTA MARIA VOR/DME 365746N0250959W	334°	LEFT	280	FL 150 FL 999	1.5 MIN	Santa Maria OAC 132.150 MHZ
SAO MIGUEL/VMG SAO MIGUEL DVOR/DME 375046N0254529W	156°	LEFT	280	FL 150 FL 999	1.5 MIN	Santa Maria OAC 132.150 MHZ
UPULO UPULO 390238N0073907W	245°	RIGHT	280	FL 250 FL 280	1.5 MIN	Lisboa ACC 136.030 MHZ
VATZI VATZI 373552N0085147W	344°	LEFT	280	FL 250 FL 290	1.5 MIN	Lisboa ACC 125.550 MHZ
XAMAX XAMAX 400152N0083210W	178°	LEFT	280	FL 150 FL 290	1.5 MIN	Lisboa ACC 132.305 MHZ
XUVAP XUVAP 373521N0251301W RDL127-DME30 VMG DVOR/DME	307°	RIGHT	280	FL 150 FL 999	12 NM	Santa Maria OAC 132.150 MHZ

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

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
DEKKI	385747N 0084144W	N/A	FRA (I) / Holding Pattern
DEKUS	380055N 0100000W	UN745	NIL / NIL
DEMOS	415533N 0092143W	R1, UN728, UN741	FRA (X): EVEN FL FRA (E): ODD FL MADRID / LISBOA FIR BDRY
DEMZO	331348N 0171528W	N/A	NIL / MADEIRA CONTINGENCY
DETOX	410000N 0150000W	UM191	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
DEVAN	385028N 0272341W	N/A	NIL / LPLA Holding Pattern
DIDIT	411912N 0113418W	UZ28	FRA (I) / NIL
DIGAL	394427N 0075923W	UN726, UZ218, UZ222	FRA (I) / NIL
DIKMO	404324N 0075309W	N/A	NIL / NIL
DIKUV	361054N 0124502W	N/A	NIL / MADEIRA CONTINGENCY
DIRMA	405106N 0093003W	B47, G414, UM191, UZ23, UZ25, UZ28, UZ29	FRA (I) / NIL
DIVUT	410143N 0081933W	N/A	FRA (I) Holding Pattern
DOKAS	371357N 0232152W	H103	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPAZ
DOLER	391605N 0262248W	H122	NIL / SANTA MARIA TMA EXIT SID, LPLA
DONOC	331326N 0162121W	N/A	NIL / NIL
DOZIV	373023N 0253403W	N/A	NIL / SID LPAZ, LPPD Holding Pattern
DUZOP	374011N 0083906W	N/A	FRA (ID): LPPT, LPCS
EKLID	390833N 0091549W	N/A	FRA (I) / Holding Pattern
EKMAR	383327N 0093117W	Y207	FRA (I) Holding Pattern
EKNOT	321035N 0161745W	N/A	FRA (I) FRA (A): LPPS LPMA
EKNUT	204441N 0391449W	N/A	NIL SANTA MARIA / PIARCO FIR BDRY
EKPER	382523N 0100000W	N/A	FRA (I) / NIL

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

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
EVPAP	390909N 0084738W	N/A	NIL / NIL
EVURA	383954N 0075507W	R72, UN726, UN873	FRA (I) FRA (D): LPFR
EXFUN	384128N 0100000W	N/A	FRA (I) / NIL
EXODO	334528N 0161910W	N/A	NIL / MADEIRA CONTINGENCY
EXONA	385416N 0080100W	UZ227, Z227	FRA (I) / Holding Pattern
FADEF	391144N 0085447W	N/A	NIL / NIL
FAGUT	320633N 0162818W	G851, UN975	FRA (I) FRA (D): LPPS
FERFE	390331N 0100021W	N/A	FRA (I) / NIL
FUSSI	391239N 0085417W	N/A	NIL / NIL
FUSUL	323605N 0163943W	N/A	FRA (I) / Holding Pattern
GAIOS	381632N 0083235W	A44	FRA (I) / NIL
GALOZ	330201N 0172514W	N/A	FRA (I) FRA (D): LPMA
GALPA	342353N 0144349W	UN728, UN745, UN975	FRA (I) / NIL
GANBA	411623N 0090345W	N/A	FRA (I) / NIL
GANSU	380000N 0094903W	B18, UN975, UZ18	FRA (I) / Holding Pattern
GEBTI	365906N 0074109W	N/A	FRA (I) / Holding Pattern
GENRO	371135N 0073653W	Y105, Y136	FRA (I) FRA (A): FARO / Holding Pattern
GIKAR	340958N 0140148W	UQ11, UZ9	FRA (I) / NIL
GIMAL	364552N 0080021W	Y103	FRA (I) FRA (AD): LPFR / Holding Pattern
GINSU	361733N 0273852W	H105	NIL / SANTA MARIA TMA, EXIT SID. ENTRY STAR LPAZ
GIRIX	371234N 0251311W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
GOBEG	290000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
GODGI	382527N 0091108W	N/A	FRA (I) / NIL

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
GOMOS	370048N 0300326W	H106	NIL / SANTA MARIA TMA, EXIT SID, ENTRY STAR LPAZ
GONAN	450000N 0140000W	T16	NIL / SANTA MARIA / SHANWICK FIR BDRY
GOSGA	320456N 0163752W	N/A	FRA (I) FRA (D): LPMA
GOXAS	383641N 0275153W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
GUDAV	383902N 0083500W	N/A	FRA (I) / NIL
GUNTI	390000N 0150000W	UZ21, UZ23, T25	FRA (EX):ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
HIDRA	443000N 0130000W		NIL / MADRID / SANTA MARIA FIR BDRY
IBBAN	332035N 0170832W	N/A,	FRA (I) FRA (A): LPMA
IBERO	412044N 0075511W	A43, UL155	FRA (I) / NIL
IBIDO	405305N 0101112W	UM191, UN728	FRA (I) / NIL
IDBID	391642N 0080100W	N/A	FRA (I) / NIL
IDLIP	370049N 0075830W	N/A	FRA (I) / NIL
IDREL	342030N 0161730W	N/A	NIL / MADEIRA CONTINGENCY
ILCAT	332603N 0170254W	W3, UL600	FRA (I) FRA (AD): LPPS
IMILE	384701N 0270649W	N/A	NIL / NIL
INBOM	400007N 0081807W	UZ226, Z226	FRA (I) FRA (A): LPPT / Holding Pattern
INBOX	382206N 0332149W	H131	NIL / NIL
INBUL	382943N 0300000W	H131	NIL / NIL
INKIT	411049N 0075327W	N/A	FRA (I) FRA (A): LPPR
INLIB	381936N 0091410W	N/A	FRA (I) / NIL
INPIR	383624N 0265545W	N/A	NIL / NIL
INSAD	280000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
IPSIK	393353N 0075453W	N/A	NIL / NIL

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
IPSIN	192214N 0383544W	N/A	NIL / SANTA MARIA / PIARCO FIR BDRY
IRKID	335530N 0180409W	UL600, W3	FRA (EX): ODD / EVEN FL FRA (D): LPMA LISBOA / SANTA MARIA FIR BDRY
IRSAN	331000N 0163016W		FRA (I) / NIL
ITVIT	385741N 0083344W	N/A	FRA (I) / Holding Pattern
IXIDA	393918N 0080100W	N/A	FRA (I) FRA (D): LPPT, LPCS
IXIKU	270000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
IXOLI	365835N 0084206W	N/A	FRA (I) FRA (AD): LPFR
IXUVA	411104N 0095109W	N/A	FRA (I) / Holding Pattern
IZENI	380827N 0110221W	N/A	FRA (I) / NIL
KEKOS	322657N 0161338W	B18	NIL / MADEIRA CONTINGENCY
KELIK	382931N 0090023W	N/A	NIL / LISBOA TMA
KETID	300000N 0200000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
KICAS	334502N 0162824W	N/A	FRA (I) FRA (A): LPMA
KOGON	385959N 0271923W	N/A	NIL / NIL
KOKER	395421N 0334402W	H142	NIL / NIL
KOLIT	403255N 0332321W	H141	NIL / NIL
KOMUT	380000N 0150000W	UM744	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
KOPAS	440000N 0130000W		NIL / MADRID / SANTA MARIA FIR BDRY
KUXOV	260000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
LACTA	385929N 0272012W	N/A	NIL / NIL
LADOX	385650N 0280116W	H124	NIL / NIL
LAMDI	391221N 0105754W	UN729	FRA (I) / NIL
LAPPA	331745N 0162131W	N/A	FRA (I) FRA (D): LPMA

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
LAPTU	250000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
LASIB	380215N 0071322W	UM744	FRA (X): ODD FL FRA (E): EVEN FL TCP MADRID / LISBOA ACC, Above FL245
LATRU	370000N 0100000W	N/A	FRA (I) / NIL
LAVPA	410012N 0090746W	N/A	FRA (I) / NIL
LAZET	385526N 0104016W	N/A	FRA (IA): LPPT, LPCS / Holding Pattern
LENSI	390000N 0200000W	T25	NIL / NIL
LEPRU	320000N 0144804W	N/A	FRA (X): ODD FL / EASTBOUND FRA (E): EVEN FL / WESTBOUND LISBOA / CASABLANCA FIR BDRY
LERLI	391254N 0090210W	N/A	FRA (I) / NIL
LIDRO	334003N 0155659W	R1, UN741, UZ14	FRA (I) FRA (A): LPMA
LIGRA	380000N 0093527W	G52, UN872	FRA (I) FRA (A): LPPT
LISGU	385316N 0090946W	N/A	FRA (I) / NIL
LIZHA	383125N 0270344W	N/A	NIL / LPLA Holding Pattern
LUKAL	411511N 0322121W	H125	NIL / NIL
LUKAN	332828N 0145553W	N/A	NIL / MADEIRA CONTINGENCY
LUKIT	401149N 0300000W	H125	NIL / NIL
LULAS	405359N 0091652W	N/A	FRA (I) / NIL
LUPOV	420000N 0150500W	T13	NIL / NIL
LUTAK	370000N 0150000W	UN870	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
LUVUP	374313N 0101007W	N/A	FRA (IA): LPPT / Holding Pattern
LUXUT	375959N 0090137W	N/A	FRA (I) / Holding Pattern
MADAT	320943N 0170507W		NIL / MADEIRA CONTINGENCY
MAGUM	391003N 0082333W	G52,UN745, UN870, UP600, UZ218, UZ7, W7	FRA (I) / NIL

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
MALIS	415120N 0073617W	G414, UT5	NIL / LISBOA / MADRID FIR BDRY PORTO TMA
MANEL	383900N 0085650W	N/A	FRA (I) / NIL
MANIK	404131N 0083658W	A5, UP600	FRA (I) FRA (D): LPPR
MANOX	361140N 0152325W	T13	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
MAPOR	413651N 0080330W	G414	FRA (I) / NIL
MARCU	325104N 0162028W	N/A	NIL / NIL
MARIM	372500N 0075028W	W13	FRA (I) FRA (A): LPFR
MARUM	363720N 0132616W	UZ8	FRA (I) / NIL
MASID	384451N 0270433W	N/A	NIL / NIL
MAZUK	383538N 0093315W	N/A	FRA (I) / Holding Pattern
MIGFO	382050N 0092157W	N/A	NIL / NIL
MIMBO	413415N 0112238W	UZ29	FRA (I) / NIL
MINTA	370744N 0072300W	R47, UN747	FRA (E): ODD FL FRA (X): EVEN FL MADRID / LISBOA FIR BDRY
MIPRU	381625N 0262153W	H113	NIL / SANTA MARIA TMA, EXIT SID LPLA, LPPD ENTRY STAR LPPD
MOMAS	391909N 0080100W	UN870, UZ219, Z219	FRA (I) / NIL
MONEC	322723N 0164949W	N/A	NIL / NIL
MORAS	390950N 0080107W	N/A	FRA (I) / NIL
MOSEN	414712N 0063339W	UZ218, H406, UZ406	NIL / MADRID / LISBOA FIR BDRY
MUDOS	433000N 0130000W		NIL / MADRID / SANTA MARIA FIR BDRY
NAKOS	380000N 0092004W	UZ4, W8	FRA (I) FRA (A): LPPT
NARBO	420823N 0081342W	R72, UN726	NIL / MADRID / LISBOA FIR BDRY
NARTA	360323N 0123329W	B18, R47, UN745, UN747, UN975, UZ13, UZ14, UZ9	FRA (I) FRA (D): LPFR

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
NASAS	361932N 0125824W	UN729	FRA (I) / NIL
NATID	385254N 0093252W	N/A	FRA (I) / Holding Pattern
NAVIX	353114N 0161404W	T16, UZ225	FRA (EX): ODD / EVEN FL LISBOA / SANTA MARIA FIR BDRY
NAVPO	373716N 0251859W	N/A	NIL / SANTA MARIA TMA
NEGRI	385243N 0132416W	UZ21	FRA (I) / NIL
NELSO	314059N 0172725W	R1, UN741	FRA (X): ODD / EVEN FL CANARIAS / LISBOA / SANTA MARIA FIR BDRY
NESDU	390306N 0281546W	N/A	NIL / Holding Pattern
NETID	373959N 0255849W	N/A	NIL / SID LPAZ, LPPD
NETOS	411827N 0061640W	N/A	NIL / NIL
NETVO	383824N 0091241W	N/A	NIL / LISBOA TMA
NEVUD	383404N 0091849W	N/A	FRA (I) / NIL
NEXUX	300000N 0210000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
NIDUL	322155N 0172111W	UZ220, Z220	FRA (I) FRA (AD): LPMA
NILAV	450000N 0132500W	T13	NIL / SANTA MARIA / SHANWICK FIR BDRY
NILDA	384103N 0270035W	N/A	NIL / NIL
NINOS	410747N 0064638W	UN976	FRA (I) / MADRID UIR / LISBOA FIR BDRY
NIPRI	330000N 0140724W	N/A	FRA (X): ODD FL / EASTBOUND FRA (E): EVEN FL / WESTBOUND LISBOA / CASABLANCA FIR BDRY
NIRAK	371445N 0072543W	Y136	MADRID / LISBOA FIR BDRY
NOKSO	370502N 0085647W	N/A	FRA (I) / Holding Pattern
NOTMA	384845N 0280322W	H153	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPHR
NUMGI	182750N 0381022W	N/A	NIL / SANTA MARIA / PIARCO FIR BDRY
OBESA	363926N 0141445W	UM190	FRA (I) / NIL

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
OBOLO	363153N 0080757W	UL14, UN858	FRA (I) / NIL
OBOMO	224315N 0273020W	N/A	NIL / SANTA MARIA FIR BDRY / SAL FIR
OBUDA	390649N 0310158W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
ODAKI	383016N 0264923W	N/A	NIL / LPLA Holding Pattern
ODEMI	372951N 0082302W	A5, Y101	FRA (I) FRA (AD): LPFR
ODLIX	384044N 0091902W	Y207	FRA (I) / NIL
ODPAK	380742N 0075536W	A44, R72, UM744, UN726, UN979, UZ7, UZ15	FRA (I) / NIL
OGDOR	340000N 0132538W	N/A	FRA (X): ODD FL / EASTBOUND FRA (E): EVEN FL / WESTBOUND LISBOA / CASABLANCA FIR BDRY
OGERO	394806N 0062402W	N/A	FRA (X): EVEN FL LECM FIR TCP MADRID / LISBOA ACC, Above FL245
OKNIB	384208N 0091043W	N/A	NIL / NIL
OLBOD	380838N 0104016W	N/A	FRA (ID): LPPT
OLDEK	381856N 0282621W	N/A	NIL / NIL
OLGAR	391100N 0075611W	B60, R72	FRA (I) / NIL
OMOBI	375326N 0244846W	N/A	NIL / SANTA MARIA TMA
ORPIC	383514N 0280643W	N/A	NIL / SANTA MARIA TMA
ORSOS	390000N 0101232W	UZ9	FRA (I) / NIL
ORTIS	312425N 0163325W	G851, UN728, UN975, UP47, UZ8	FRA (X) FRA (D): LPMA CANARIAS / LISBOA FIR BDRY
ORTOP	360136N 0072300W	A5, UN726	FRA (X): ODD FL FRA (E): EVEN FL FRA (D): LPFR BDRY FIR MADRID / LISBOA
ORTUG	382414N 0085946W	N/A	FRA (I) / Holding Pattern
ORVED	392300N 0073907W	N/A	FRA (ID): LPPT, LPCS

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
OSLAD	355800N 0081851W	R724, UL14	FRA (X): ODD FL / SOUTHBOUND FRA (E): EVEN FL / NORTHBOUND FRA (D): LPFR LISBOA / CASABLANCA FIR BDRY
OSLEV	300000N 0220000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
OTREG	411623N 0084116W	N/A	FRA (I) / NIL
OTZIL	330525N 0162102W	N/A	FRA (I) / NIL
OXFIN	383428N 0091802W	N/A	NIL / NIL
PARAV	405651N 0115124W	UM191	FRA (I) / NIL
PASAS	450000N 0130000W	N/A	NIL / MADRID / SHANWICK / SANTA MARIA FIR BDRY
PECKY	343149N 0152016W	R1, UN741, UN747	FRA (I) / NIL
PELUS	332643N 0170416W	UM190, UN747	FRA (I) / NIL
PESAS	370212N 0072300W	UN858	FRA (X): EVEN FL MADRID / LISBOA FIR BDRY
PESEX	383532N 0091413W	N/A	NIL / LISBOA TMA, Holding Pattern
PESUL	405255N 0080654W	UN726, W2	FRA (I) FRA (AD): LPPR
PETEK	424044N 0120000W	N/A	FRA (X): EVEN FL FRA (E): ODD FL MADRID / LISBOA FIR BDRY
PETUD	372955N 0254820W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
PEVAP	351449N 0144906W	N/A	NIL / MADEIRA CONTINGENCY
PIBIL	300000N 0230000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
PIGOR	392802N 0134917W	UZ22, UZ23	FRA (I) / NIL
PIKIX	384639N 0283202W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
PILIM	325115N 0163529W	N/A	FRA (I) FRA (D): LPMA
PINEK	415104N 0083552W	UP600	FRA (X): EVEN FL FRA (E): ODD FL TCP MADRID / LISBOA ACC, Above FL245
PINOX	401726N 0070633W	G52,UN745, UZ15	FRA (I) / NIL

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
PIREN	365000N 0072300W	UZ5, W1	FRA (EX) FRA (X): EVEN FL LISBOA / MADRID FIR BDRY
PIXED	240000N 0250000W	N/A	NIL / CANARIAS / SAL / SANTA MARIA FIR BDRY
PODEL	373701N 0254159W	N/A	NIL / NIL
PORTA	391948N 0071809W	B60,UN873	FRA (I) / MADRID UIR / LISBOA FIR BDRY
RAKOD	394651N 0063743W	N/A	FRA (I) / NIL
RAKUN	333325N 0154653W	B18, UN975	FRA (I) FRA (A): LPMA, LPPS
RALUS	415612N 0070659W	UN872, H406, UZ406	NIL / MADRID UIR / LISBOA FIR BDRY
RARUR	393956N 0082934W	N/A	FRA (I) / NIL
REDSO	373853N 0254743W	N/A	NIL / NIL
REGLA	385119N 0260820W	H121	NIL / SANTA MARIA TMA, EXIT SID LPLA
RELKU	382501N 0092739W	N/A	FRA (I) / NIL
RELVA	415110N 0083551W	A5	NIL / NIL
RETEN	430000N 0130000W	N/A	FRA (EX): ODD / EVEN FL SANTA MARIA / LISBOA / MADRID FIR BDRY
RETMO	411340N 0090050W	N/A	FRA (I) / Holding Pattern
RIMIV	341016N 0153539W	N/A	NIL / MADEIRA CONTINGENCY
RINOR	391237N 0084728W	N/A	FRA (I) / Holding Pattern
RIPEL	421659N 0104858W	UP47	FRA (X): EVEN FL FRA (E): ODD FL MADRID/LISBOA FIR BDRY
RIPOD	300000N 0240000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
RITUS	414925N 0081158W	UN726	FRA (E): ODD FL MADRID/LISBOA FIR BDRY
RIVRO	403722N 0064322W	B47, G52, UM191, UN745	FRA (I) / NIL
RODAP	393757N 0070355W	N/A	FRA (I) / NIL
RODAS	374621N 0255934W	N/A	NIL / NIL

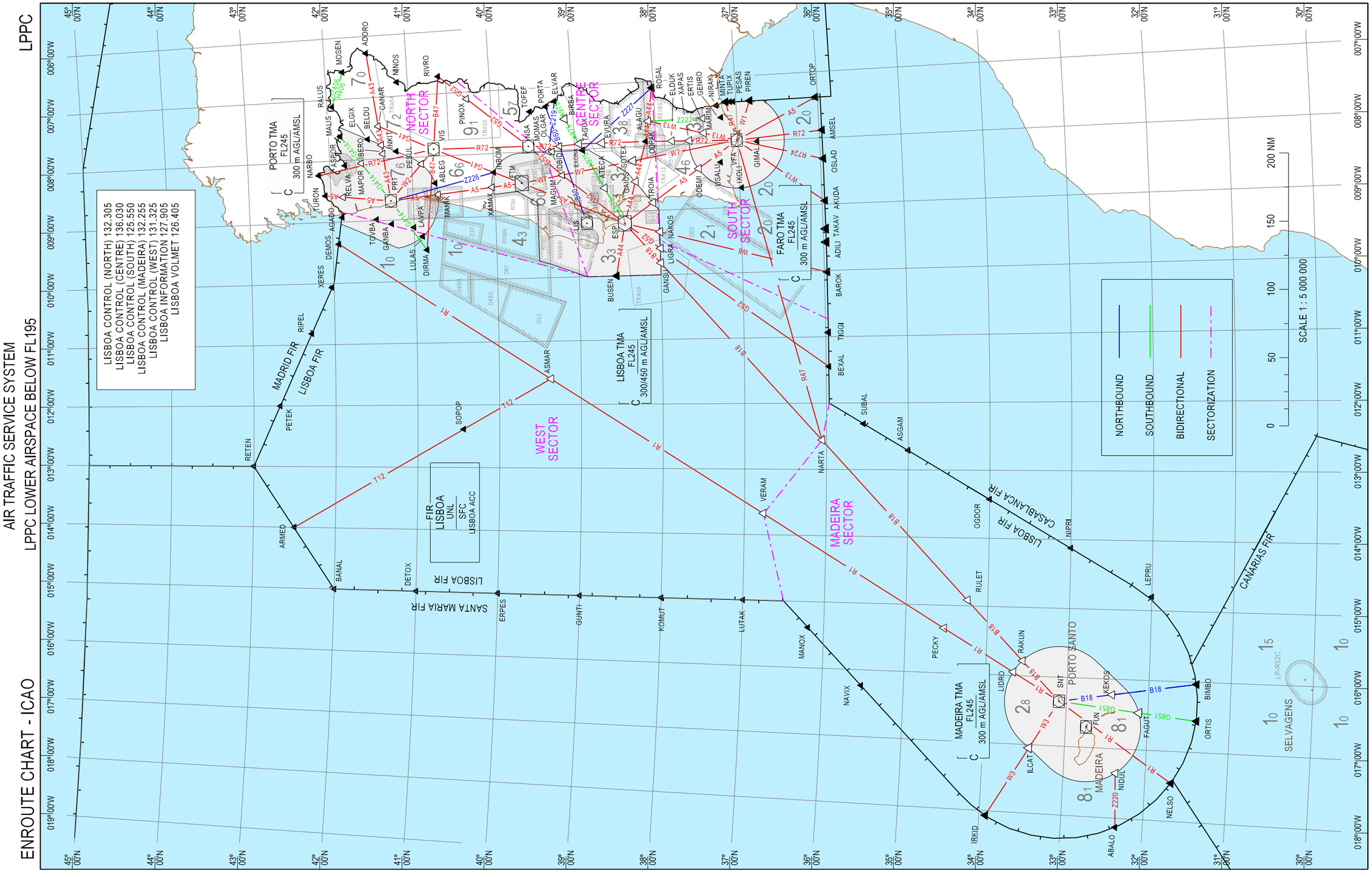
Name-code designator	Coordinates	ATS route or other route	Remarks / Usage Legend for FRA Relevance: (E) Horizontal entry point; (X) Horizontal exit point; (I) Intermediate point; (A) Arrival connecting point; (D) Departure connection point.
1	2	3	4
RODIL	380444N 0273624W	H101	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPAZ
ROKOB	385111N 0090551W	N/A	NIL / LISBOA TMA
ROKTE	363458N 0082019W	N/A	FRA (I) / NIL
ROLAR	341241N 0151221W	UZ11, UZ14	FRA (I) / NIL
ROMEP	390355N 0084314W	N/A	FRA (I) / NIL
ROSAL	380117N 0070605W	A44, UM744, UZ227, Z227	NIL / MADRID/LISBOA FIR BDRY
ROTBU	391147N 0090933W	N/A	FRA (I) / NIL
RUKAV	221037N 0283217W	N/A	NIL / SANTA MARIA FIR BDRY / SAL FIR
RULET	341506N 0145456W	B18, UN745, UN975	FRA (I) / NIL
RULOX	385400N 0100000W	N/A	FRA (I) / Holding Pattern
RUPEP	353219N 0154252W	N/A	NIL / MADEIRA CONTINGENCY
SIPRU	391048N 0275322W	H125	NIL / NIL
SOLGI	383730N 0280158W	H115, H123	NIL / SANTA MARIA TMA, Holding Pattern ENTRY STAR LPHR
SOMUL	381321N 0271901W	H114	NIL / SANTA MARIA TMA EXIT SID, ENTRY STAR LPPD
SONAP	363000N 0100000W	N/A	FRA (I) / NIL
SOPOP	402624N 0122312W	T12, UZ25	FRA (I) / NIL
SORAD	300000N 0250000W	N/A	NIL / CANARIAS / SANTA MARIA FIR BDRY
SOTEX	381734N 0081312W	UN873, UP600, UZ223, W7	FRA (I) FRA (AD): LPFR
SUBAL	353247N 0121845W	N/A	FRA (X): ODD FL / EASTBOUND FRA (E): EVEN FL / WESTBOUND LISBOA / CASABLANCA FIR BDRY
SUNES	371827N 0090000W	UN873	FRA (I) / NIL
SUPIK	375515N 0260334W	N/A	NIL / NIL
TABAX	380926N 0134457W	UM744	FRA (I) / NIL
TACAT	384537N 0270529W	N/A	NIL / LPLA Holding Pattern

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
TAGUX	385644N 0075451W	A975, R72, UN726, UN975	FRA (I) / NIL
TAKAV	355800N 0092219W	N/A	FRA (X): ODD FL / SOUTHBOUND FRA (E): EVEN FL / NORTHBOUND LISBOA / CASABLANCA FIR BDRY
TEGTO	205737N 0304617W	N/A	NIL / SANTA MARIA FIR BDRY / SAL FIR
TELMU	353816N 0143150W	UN741, UP47	FRA (I) / NIL
TERVA	402500N 0093528W	N/A	FRA (I) / NIL
TIDVI	380727N 0260905W	N/A	NIL / NIL
TIGGI	355800N 0105608W	N/A	FRA (E): EVEN FL / NORTHBOUND LISBOA / CASABLANCA FIR BDRY
TIMTO	382316N 0271917W	H115	NIL / SANTA MARIA TMA, EXIT SID LPPD
TIRKO	385044N 0271042W	N/A	NIL / NIL
TOFEF	393144N 0072159W	UN870, UZ15	FRA (I) MADRID UIR / LISBOA FIR BDRY
TORVU	343910N 0140013W	N/A	NIL / MADEIRA CONTINGENCY
TOSDI	405927N 0061719W	N/A	FRA (X): EVEN FL LECM FIR, TCP MADRID / LISBOA ACC, Above FL245
TOVBA	412716N 0085852W	N/A	FRA (I) / NIL
TROIA	380424N 0085245W	A5	FRA (I) / NIL
TUNAV	391854N 0112225W	UN728	FRA (I) / NIL
TUPIX	370434N 0072300W	N/A	FRA (EX) FRA (AD): LPFR MADRID / LISBOA FIR BDRY
TURON	420405N 0083348W	A5, UP600	NIL / LISBOA/MADRID FIR BDRY
TUSEX	374925N 0260535W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
TUTLO	170000N 0373000W	N/A	NIL / SANTA MARIA / PIARCO / SAL / DAKAR FIR BDRY
TUXIV	334314N 0173827W	N/A	NIL / MADEIRA CONTINGENCY
UBANI	413328N 0091422W	N/A	FRA (I) FRA (AD): LPPR
UBESO	364451N 0074850W	N/A	FRA (I) / NIL

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
UDRUB	412527N 0084339W	N/A	FRA (I) / NIL
ULTEM	212946N 0294800W	N/A	NIL / SANTA MARIA / SAL FIR BDRY
ULTIT	383156N 0091218W	N/A	FRA (I) / NIL
ULVAX	410015N 0075004W	N/A	FRA (I) / Holding Pattern
ULVOT	373728N 0095923W	N/A	FRA (ID): LPPT
UNPOT	381046N 0100000W	N/A	FRA (I) / Holding Pattern
UPKAT	385759N 0090212W	N/A	NIL / LISBOA TMA, Holding Pattern
UPULO	390238N 0073907W	N/A	FRA (IA): LPPT, LPCS / Holding Pattern
UPZET	390038N 0270751W	N/A	NIL / LPLA Holding Pattern
URATU	364146N 0250914W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
UREDI	395135N 0062336W	N/A	FRA (X): EVEN FL LECM FIR TCP MADRID / LISBOA ACC, Above FL245
USALU	371320N 0081801W	Y101, Y102	FRA (I) FRA (A): LPFR / Holding Pattern
VABEM	363257N 0131922W	UN728, UN981	FRA (I) / NIL
VAGAR	383007N 0092956W	N/A	FRA (I) / NIL
VASIP	413318N 0082234W	N/A	FRA (I) / Holding Pattern
VATZI	373552N 0085147W	N/A	FRA (IA): LPPT, LPCS / Holding Pattern
VEDEL	395127N 0124012W	UZ23	FRA (I) / NIL
VELAS	383932N 0282131W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
VENOL	370424N 0081524W	N/A	FRA (I) / Holding Pattern
VEPOP	192203N 0333403W	N/A	NIL / SANTA MARIA / SAL FIR BDRY
VERAM	364621N 0134031W	R1, UN741, UZ11	FRA (I) / NIL
VESOB	390756N 0274751W	N/A	NIL / Holding Pattern
VIBOC	390145N 0272218W	N/A	NIL / LPLA 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
VOROC	384702N 0270616W	N/A	NIL / LPLA Holding Pattern
XAMAX	400152N 0083210W	A5	FRA (I) FRA (A): LPPT, LPCS / Holding Pattern
XANEL	392411N 0121213W	UM190	FRA (I) / NIL
XAPAS	373550N 0075700W	R72, Y102	FRA (I) FRA (D): LPFR
XAPIM	410441N 0083812W	N/A	FRA (I) / NIL
XEGEN	321859N 0160058W	N/A	NIL / MADEIRA CONTINGENCY
XERES	420126N 0100405W	UM190, UN981	FRA (X): EVEN FL FRA (E): ODD FL MADRID / LISBOA FIR BDRY
XERON	322253N 0165637W	N/A	NIL / MADEIRA CONTINGENCY
XETOS	384132N 0264754W	N/A	NIL / LPLA Holding Pattern
XIBOT	181515N 0352648W	N/A	NIL / SANTA MARIA / SAL FIR BDRY
XOGRA	382412N 0290117W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
XORVU	393750N 0303907W	N/A	NIL / SANTA MARIA TMA, Holding Pattern
XUVAP	373521N 0251301W	N/A	NIL / SANTA MARIA TMA, Holding Pattern EXIT SID LPAZ
YETSI	381918N 0085343W	N/A	NIL / LPPT Holding Pattern
ZACRA	382048N 0090623W	N/A	FRA (I) / NIL
ZEFFI	382145N 0092128W	N/A	NIL / NIL
ZEZZU	383805N 0091920W	N/A	NIL / NIL
ZIFOG	384147N 0104016W	N/A	FRA (ID): LPPT, LPCS

AIR TRAFFIC SERVICE SYSTEM
LPPC LOWER AIRSPACE BELOW FL195
ENROUTE CHART - ICAO



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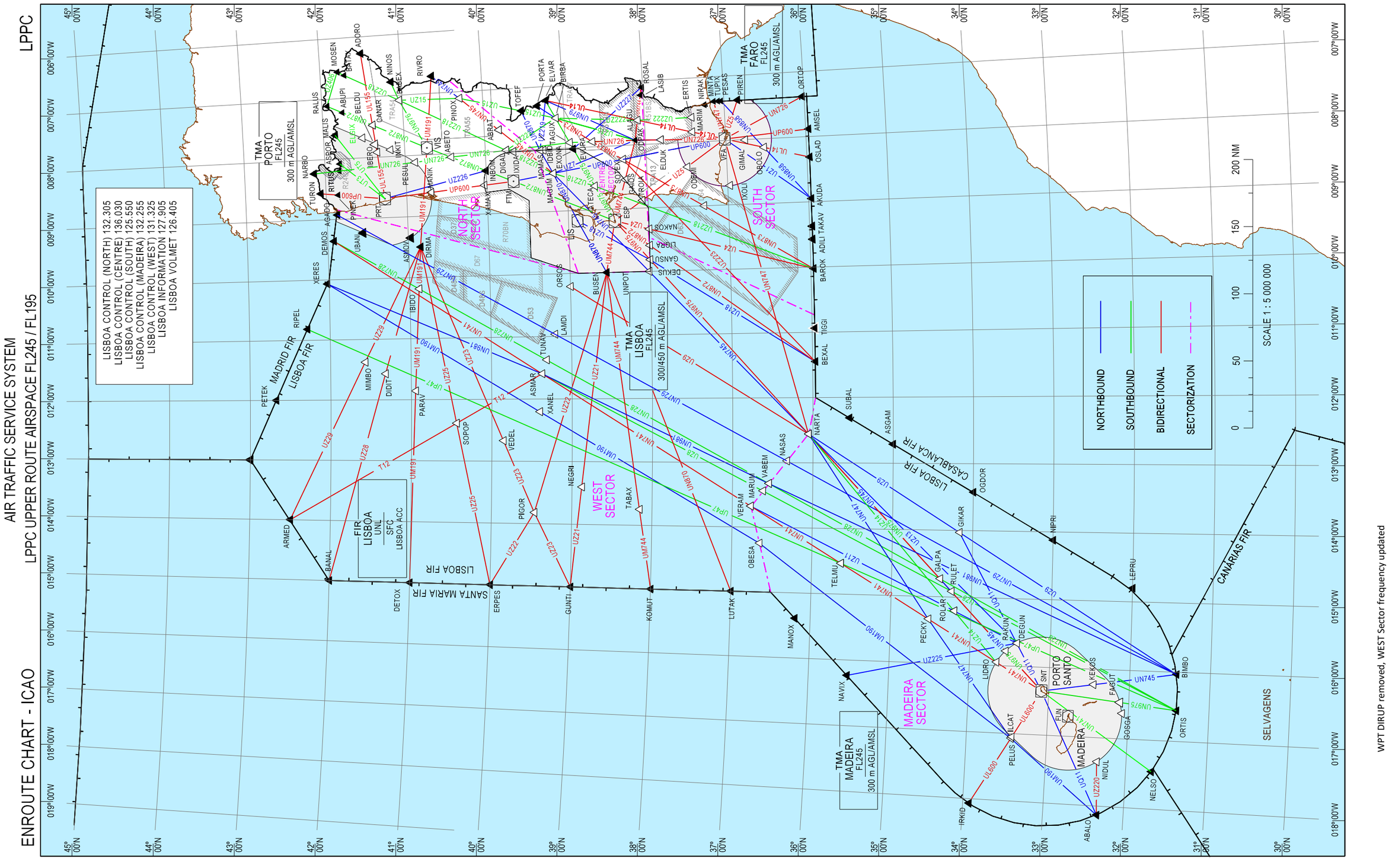

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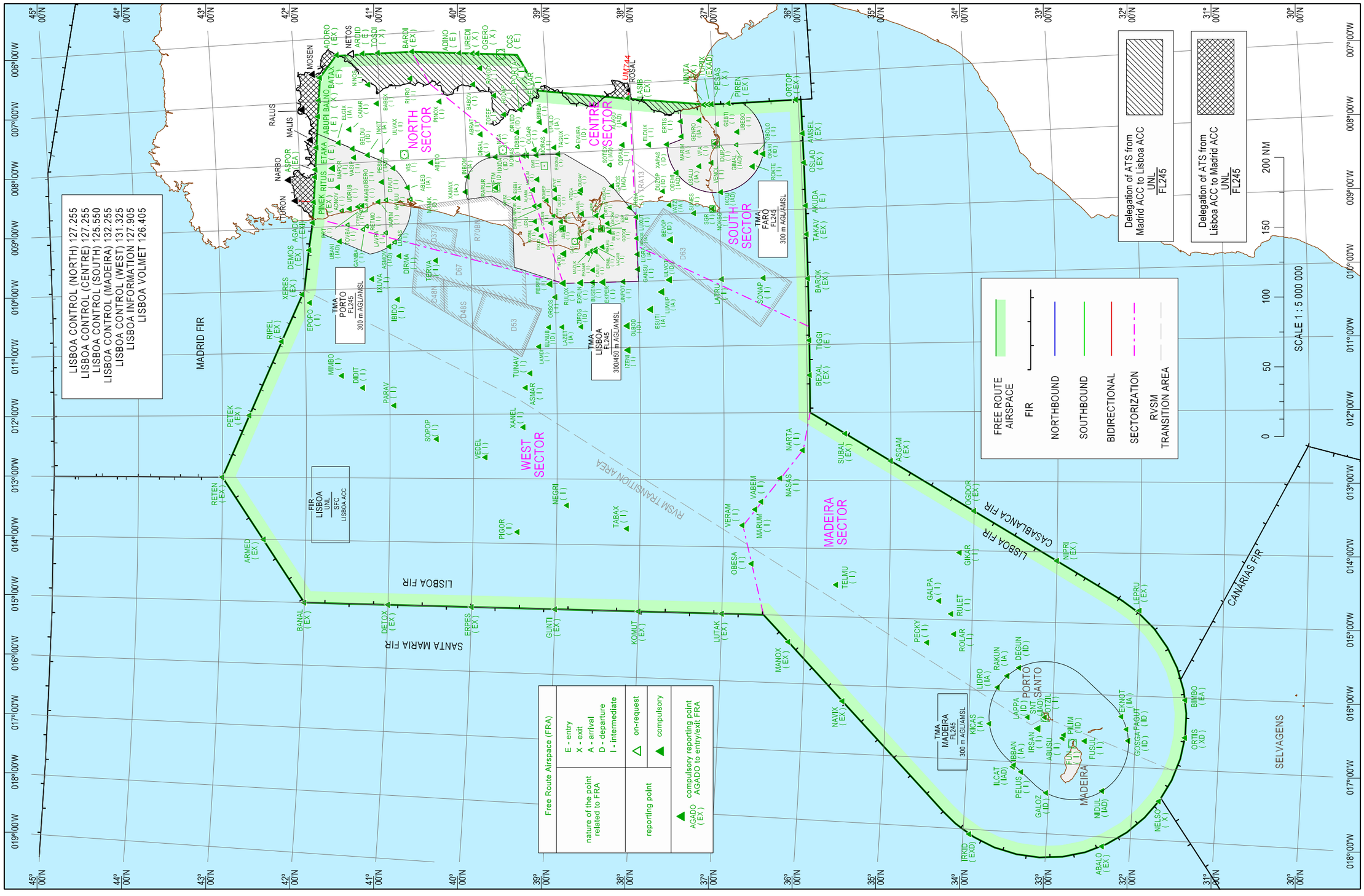
AIR TRAFFIC SERVICE SYSTEM
LPPC FREE ROUTE AIRSPACE ABOVE FL245
ENROUTE CHART - ICAO



WEST Sector frequency updated.

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RUNWAY 17/35

GENERAL REMARKS:

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

All departures on RWY35 are visual departures and shall be made with visual reference with the terrain due to:

a. Obstacles referred in LPCS AD 2.10 Aerodrome Obstacles;

b. Sintra mountainous area;

c. Restricted area LPR69A

All departures RWY35 shall maintain south of Sintra mountainous area and the restricted area LPR69A.

RNAV 1 specification for RWY35 applied from Initial Departure Fix (IDF).

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 FL060 if 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 Vectored or proceeding offset, when passing 35NM DME CAS DVOR/DME, rejoin the current Flight Plan route and proceed in accordance with point 2 above;

4. If cleared direct to..., fly at/to the assigned and acknowledged level or to FL060, whichever is higher, until passing 35NM DME CAS DVOR/DME, maintain the current Flight Plan route and proceed in accordance with point 2 above.

See also RNAV SID charts.

4. NON-RNAV STANDARD INSTRUMENT ARRIVAL (STAR) TO CASCAIS AERODROME

GENERAL REMARKS

NON RNAV ACFT shall proceed on airways to ESP and expect ATC instructions for final approach.

SPEED ADJUSTMENT

See ENR 1.5.4

RADIO COMMUNICATION FAILURE

In the event of RCF or RCF and RNAV capability loss, squawk A7600, fly at/to the last assigned level DCT to ESP holding pattern. Start descent to initial approach altitude to carry out a standard IFR approach according to IAC.

5. RNAV STANDARD INSTRUMENT ARRIVAL (STAR) TO CASCAIS AERODROME

RUNWAY 35

GENERAL REMARKS:

If unable to comply with RNAV Arrival Routes, advise ATC.

SPEED ADJUSTMENT

Descend via Mach number until transition to 280KT.
Maintain 280Kts until slowed by the STAR or assigned by ATC.

See ENR 1.5.4

RADIO COMMUNICATIONS FAILURE:

In the event of RCF:

1. Squawk A7600

2. Perform the assigned RNAV STAR, if received and acknowledged, or FPL RNAV STAR.

3. Descend to the last cleared Flight Level or FL110, whichever is lower, and hold over CASLU.

4. Commence descent in the holding and when levelled at 3000FT complete the STAR and start the Instrument Approach Procedure. Until final landing complying with both FL and speed constraints.

See also RNAV STAR charts.

6. 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.

7. HOLDING PROCEDURES

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
1	2	3	4	5	6
CASLU CASLU 383224N0094836W	357°	LEFT	230	3000FT ALT FL140	1 MIN
EKMAR EKMAR 383327N0093117W RDL222-DME26 LIS DVOR/DME	042°	LEFT	170	3000FT ALT FL140	3 NM
EKMAR EKMAR 383327N0093117W	042°	LEFT	170	3000FT ALT FL140	1 NM
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030°	RIGHT	200	3000FT ALT FL 080	1 MIN
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030°	RIGHT	230	FL090 FL140	1 MIN
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030°	RIGHT	280	FL150 FL999	1.5 MIN
ESUTI ESUTI 375136N0102549W	049°	LEFT	280	FL250 FL290	1.5 MIN
EXONA EXONA 385416N0080100W	245°	RIGHT	265	FL150 FL290	1.5 MIN
LAZET LAZET 385526N0104016W	095°	RIGHT	280	FL250 FL280	1.5 MIN
LUXUT LUXUT 375959N0090137W	344°	LEFT	265	FL150 FL240	1.5 MIN

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
1	2	3	4	5	6
RULOX RULOX 385400N0100000W	089°	RIGHT	265	FL150 FL240	1.5 MIN
UNPOT UNPOT 381046N0100000W	049°	LEFT	230	FL110 FL140	1 MIN
UNPOT UNPOT 381046N0100000W	049°	LEFT	265	FL150 FL240	1.5 MIN
UPULO UPULO 390238N0073907W	245°	RIGHT	280	FL250 FL280	1.5 MIN
VATZI VATZI 373552N0085147W	344°	LEFT	280	FL250 FL290	1.5 MIN
XAMAX XAMAX 400152N0083210W	178°	LEFT	280	FL150 FL290	1.5 MIN

LPCS AD 2.23 ADDITIONAL INFORMATION

1. Bird hazard warning

Possible bird concentration on the vicinity of the Aerodrome.

2. Handling services

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

Omni Handling

URL:www.omnihandling.com/

Email:cascais@omnihandling.com

Phone:+351 919897608

Safeport

URL:www.safeport.aero

Email:cascais@safeport.aero

Phone:+351 210040425

Phone:+351 910285358

Sevenair

URL:https://sevenair.com

Email:info@sevenair.com

Phone:+351 214444545

SkyValet

URL:www.skyvalet.com

Email:lpcs.fbo@skyvalet.pt

Phone:+351 211328947

Phone:+351 910996318

Wexjet Aviation

URL:www.wexjet.com

Email:handling@wexjet.com

Phone:+351 218701025

Gestavia Airport Logistics

URL:www.gestavia.com

Email:cat@gestavia.com

Phone:+351 211316498

Phone:+351 913410189

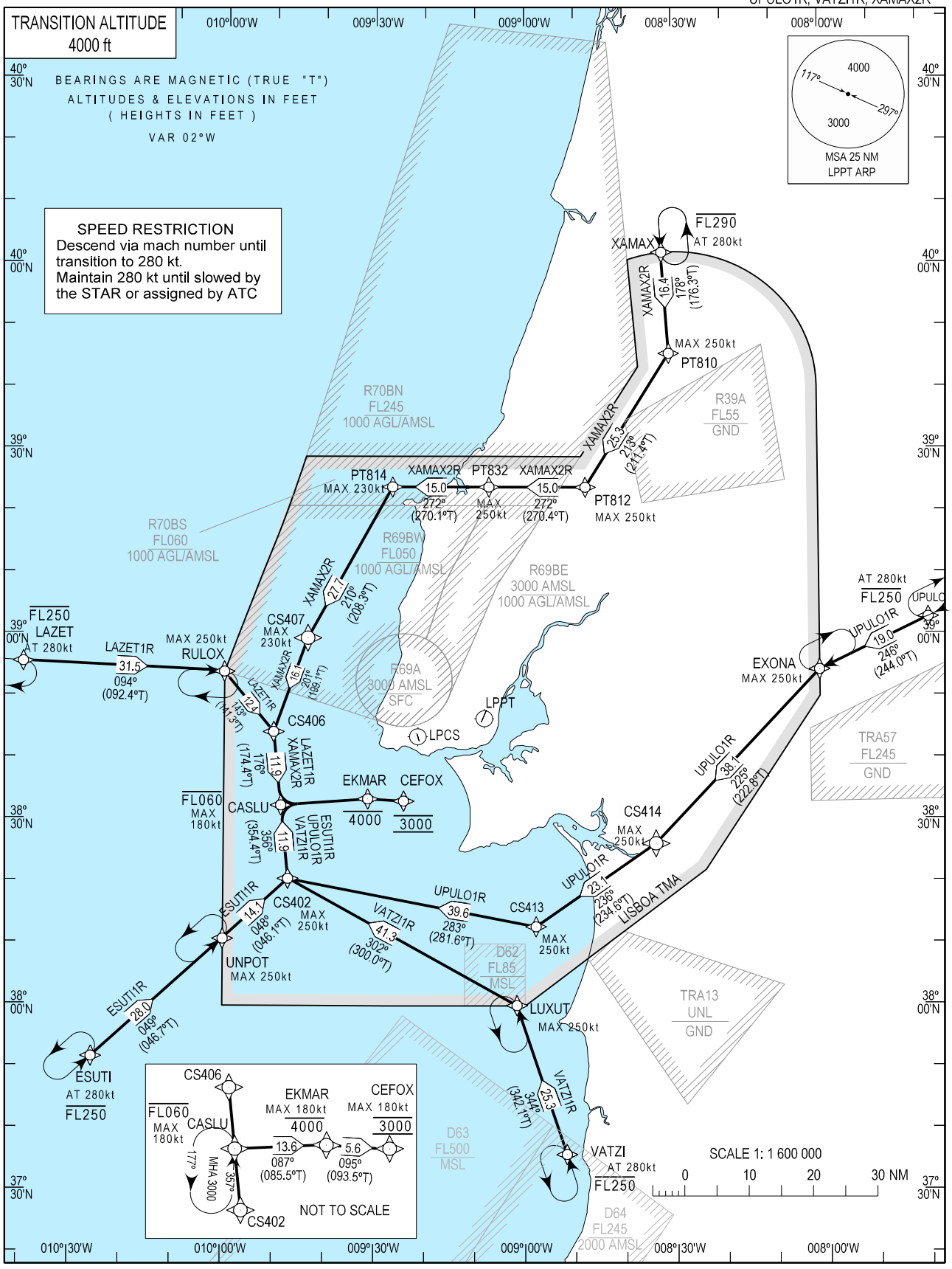
LPCS AD 2.24 CHARTS RELATED TO AN AERODROME

I

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

LISBOA APPROACH 119.105
CASCAIS TOWER 120.305

CASCAIS (LPCS)
RNAV RWY 35
ESUTI1R, LAZET1R
UPULO1R, VATZI1R, XAMAX2R



Procedures updated.

CASCAIS STAR RNAV1 ESUTI1R (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	ESUTI	N	375135.67N 0102548.77W	-	-	-	-FL250	@280 kt	RNAV 1	Clearance Limit CEFOX
TF	UNPOT	N	381045.63N 0100000.00W	049 (046.7)	27.9747	-	-	250 kt	RNAV 1	
TF	CS402	N	382031.15N 0094707.38W	048 (046.07)	14.0674	-	-	250 kt	RNAV 1	
TF	CASLU	N	383224.05N 0094835.92W	356 (354.4)	11.9259	-	-FL060	180 kt	RNAV 1	
TF	EKMAR	N	383326.56N 0093117.20W	087 (085.5)	13.6211	-	-4000 ft	180 kt	RNAV 1	
TF	CEFOX	N	383305.95N 0092409.73W	095 (093.5)	5.5993	-	@3000 ft	180 kt	RNAV 1	

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

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

CASCAIS STAR RNAV1 VATZI1R (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	VATZI	N	373552.11N 0085147.09W	-	-	-	- FL250	@280 kt	RNAV 1	Clearance Limit CEFOX Pending on military activity.
TF	LUXUT	N	375959.27N 0090136.98W	344 (342.1)	25.3206	-	-	250 kt	RNAV 1	
TF	CS402	N	382031.15N 0094707.38W	302 (300,0)	41.3330	-	-	250 kt	RNAV 1	
TF	CASLU	N	383224.05N 0094835.92W	356 (354.4)	11.9259	-	- FL060	180 kt	RNAV 1	
TF	EKMAR	N	383326.56N 0093117.20W	087 (085.5)	13.6211	-	- 4000 ft	180 kt	RNAV 1	
TF	CEFOX	N	383305.95N 0092409.73W	095 (093.5)	5.5993	-	@3000 ft	180 kt	RNAV 1	

CASCAIS STAR RNAV1 XAMAX2R (RWY 35)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	XAMAX	N	400151.96N 0083210.34W	-	-	-	-FL290	@280 kt	RNAV 1	Clearance Limit CEFOX. Pending on military activity.
TF	PT810	N	394530.07N 0083048.57W	178 (176.3)	16.39	-	-	250 kt	RNAV 1	
TF	PT812	N	392353.37N 0084746.16W	213 (211.4)	25.26	-	-	250 kt	RNAV 1	
TF	PT832	N	392357.30N 0090707.63W	272 (270.4)	15.01	-	-	250 kt	RNAV 1	
TF	PT814	N	392358.01N 0092629.12W	272 (270.1)	15.01	-	-	230 kt	RNAV 1	
TF	CS407	N	385929.75N 0094321.72W	210 (208.3)	27.75	-	-	230 kt	RNAV 1	
TF	CS406	N	384416.90N 0095005.02W	201 (199.1)	16.08	-	-	230 kt	RNAV 1	
TF	CASLU	N	383224.05N 0094835.92W	176 (174.4)	11.93	-	-FL060	180 kt	RNAV 1	
TF	EKMAR	N	383326.56N 0093117.20W	087 (085.5)	13.62	-	- 4000 ft	180 kt	RNAV 1	
TF	CEFOX	N	383305.95N 0092409.73W	095 (093.5)	5.60	-	@3000 ft	180 kt	RNAV 1	

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INSTRUMENT APPROACH CHART - ICAO

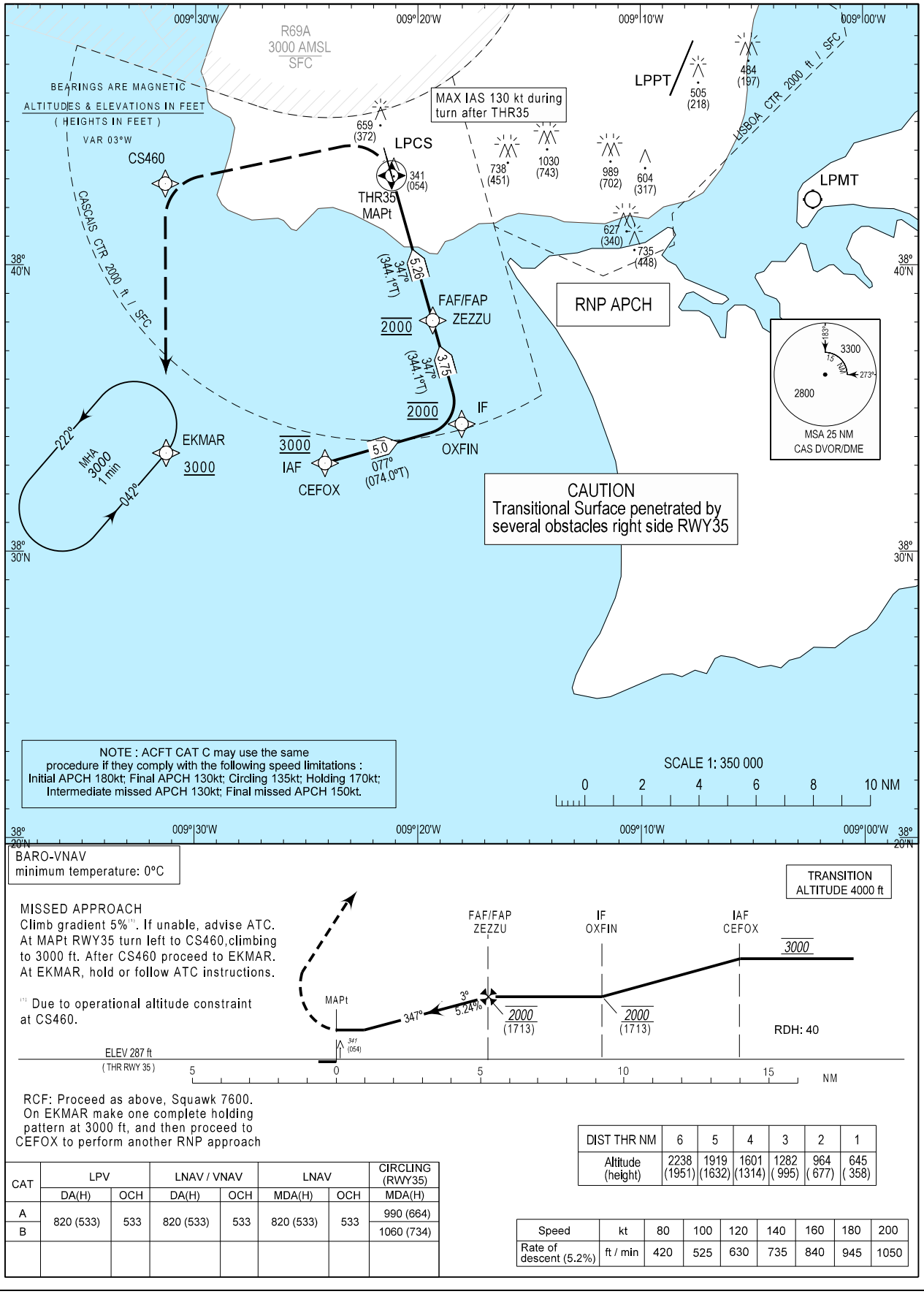
AD ELEV 326 ft
HEIGHTS RELATED
THR RWY 35 - ELEV 287 ft

LISBOA APPROACH 119.105
CASCAIS TOWER 120.305
CASCAIS GROUND 121.830

EGNOS
CH 72329
E35A
RDH: 40

CASCAIS (LPCS)

RNP RWY35
CAT A-B



BARO-VNAV
minimum temperature: 0°C

TRANSITION ALTITUDE 4000 ft

MISSED APPROACH
Climb gradient 5%[1]. If unable, advise ATC.
At MAPt RWY35 turn left to CS460,climbing to 3000 ft. After CS460 proceed to EKMAR.
At EKMAR, hold or follow ATC instructions.

[1] Due to operational altitude constraint at CS460.

RCF: Proceed as above, Squawk 7600.
On EKMAR make one complete holding pattern at 3000 ft, and then proceed to CEFOX to perform another RNP approach

CAT	LPV		LNAV / VNAV		LNAV		CIRCLING (RWY35)
	DA(H)	OCH	DA(H)	OCH	MDA(H)	OCH	MDA(H)
A	820 (533)	533	820 (533)	533	820 (533)	533	990 (664)
B							1060 (734)

DIST THR NM	6	5	4	3	2	1
Altitude (height)	2238 (1951)	1919 (1632)	1601 (1314)	1282 (995)	964 (677)	645 (358)

Speed	kt	80	100	120	140	160	180	200
Rate of descent (5.2%)	ft / min	420	525	630	735	840	945	1050

Inbound track EKMAR HLDG changed

Instrument Approach Procedure Coding Table

LPCS RNP RWY35 A/B											
Path Terminator	Waypoint				Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates				Level	Speed		
IF	CEFOX	IAF	N	383305.95N 0092409.73W	-	-	-	@3000FT	-	RNP APCH	-
TF	OXFIN	IF	N	383428.36N 0091801.77W	077 (074.0)	5.00	Left	@2000FT	-	RNP APCH	
TF	ZEZZU	FAF/FAP	N	383804.84N 0091920.33W	347 (344.1)	3.75	-	@2000FT	-	RNP APCH	
TF	RW35	MAPT	Y	384308.41N 0092110.74W	347 (344.1)	5.26	-	.	-	RNP APCH	
DF	CS460	-	N	384250.96N 0093121.09W	-	-	Left	-	130KT	RNP APCH	
TF	EKMAR	-	N	383326.56N 0093117.20W	183 (179.7)	9.40	-	+3000FT	-	RNP APCH	

Instrument Approach Procedure Coding Table LPCS RNP RWY35 A/B (HLDG EKMAR)											
Path Terminator	Waypoint				Course/Track MAG (True)	Dist NM / Time min	Turn Direction	Upper limit [ft] Lower limit [ft]	Speed	VPA [°]/TCH [ft]	Navigation Specification
	Identifier	Type	Flyover	Coordinates							
HM	EKMAR	-	Yes	383326.56N 0093117.20W	042 -	1 min	Left	14000 3000	170 kt	-	RNAV 1

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LPCS
Runway	35
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E35A
LTP/FTP Latitude	384308.4100N
LTP/FTP Longitude	0092110.7400W
LTP/FTP Ellipsoidal Height (metres)	141.8
FPAP Latitude	384352.0590N
Delta FPAP Latitude (seconds)	43.6490
FPAP Longitude	0092126.6390W
Delta FPAP Longitude (seconds)	-15.8990
Threshold Crossing Height	40.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

Output data

Data Block	10 13 03 10 0C 23 00 00 01 35 33 05 F4 CB 9D 10 58 73 FC FB 8A 19 02 55 01 CA 83 FF 90 01 2C 01 64 00 C8 FA 17 CE F6 2A
Calculated CRC Value	17CEF62A

Required Additional Data

ICAO Code	LP
LTP/FTP Orthometric Height (metres)	87.4

AD 2 AERODROMES

LPFR AD 2

LPFR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LPFR - FARO / Gago Coutinho

LPFR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

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

LPFR AD 2.3 OPERATIONAL HOURS

1	AD Administration	06:00-24:00 (05:00-23:00)*
2	Customs and immigration	H24
3	Health and sanitation	On request
4	AIS Briefing Office	AIS available through ARO Portugal (see GEN 3.1)
5	ATS Reporting Office (ARO)	ARO available through ARO Portugal (see GEN 3.1)
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	08:00-24:00 (07:00-23:00). Other times on request with surcharge
9	Handling	06:00-24:00 (05:00-23:00). Other times on request
10	Security	H24
11	De-icing	NIL

12	Remarks	* Aerodrome OPS HR extension will be considered until 01:00 (00:00) of the next day, if requested until 23:30 (22:30), regarding force majeure cases specified in AD 1.1.6, through Airport Duty Manager Phone: +351 289800610 Fax: +351 289818440 Email: faoairportsup@ana.pt SITA: FAOKAXH

LPFR AD 2.4 HANDLING SERVICES AND FACILITIES

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

LPFR AD 2.5 PASSENGER FACILITIES

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

LPFR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 8
2	Rescue equipment	In accordance with Table 5.2 of ICAO DOC. 9137 - AN/898 PART I.
3	Capability for removal of disabled aircraft	All aircraft up to maximum weight of 150 tons with gear down and operational

LPGR AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	Graciosa ATZ 390736N 0280734W - 390921N 0275732W - 390555N 0275633W - 390411N 0280635W - 390736N 0280734W
2	Vertical limits	SFC / 1000FT AGL
3	Airspace classification	G
4	ATS unit call sign / Language(s)	Graciosa Information / PT, EN
5	Transition altitude	* 5000FT
6	Remarks	* In accordance with instrument approach chart Opening of the aerodrome due to emergencies, extension or anticipation involves the activation of the ATZ, in coordination with Horta TWR.

LPGR AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
AFIS	Graciosa Information	122.900MHZ	HO	NIL

LPGR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type Category (Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
L (10ºW / 2020)	GC	428KHZ	H24	390537.8N 0280150.9W	NIL	Coverage: 25NM

LPGR AD 2.20 LOCAL AERODROME REGULATIONS

1. Limitations on use of aerodrome

The Aerodrome is an UNCONTROLLED Aerodrome.

AD available for VMC operations only.

Operators should pay attention for the existence of former horizontal markings (paintings).

LPGR AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

LPGR AD 2.22 FLIGHT PROCEDURES

1. General

All authorizations must be obtained through LAJES Approach. (see LPLA AD-2.18)
Due to High Terrain, Flights are not allowed south of Runway 09/27.
All ACFT (Including ULM) Operating at ATZ are subject to the following conditions:

- Submission of a Flight Plan
- Transponder Mode C or S equipped
- Two Way radio communications equipped

Helicopters may operate in Graciosa ATZ in less than 1500M but not less than 800M flight visibility, if manoeuvred at a speed that will give adequate opportunity to observe other traffic or any obstacles in time to avoid collision. Flight visibility lower than 800M for short periods during daylight, when in sight of land, are permitted for special cases, such as medical flights, search and rescue operations and fire-fighting.
Low level over water flights out of sight of land are also permitted if conducted under VFR when the cloud ceiling is greater than 600FT by day and 1200FT by night.

The airspace is uncontrolled. However, when the meteorological conditions of the aerodrome are below VMC minima any aircraft, with suitable equipment, may execute, pending on traffic conditions, an approach procedure based on radio navigation aid, applying the published minima in the Instrument Approach Chart of the aerodrome.

2. Arrivals

1. Traffic Pattern on the North Side of Runway 09/27.

3. Departures

1. Take-off RWY 09 - Maintain runway heading until passing 1000FT, using QNH, then turn right. Keep coast line to your right side and maintain VMC until receive ATC clearance by Lajes Approach.
2. Take-off RWY 27 - Maintain runway heading until passing 1000FT, using QNH, then turn right. Keep coast line to your right side and maintain VMC until receive ATC clearance by Lajes Approach.

4. Holding Procedures

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
GRACIOSA/GC GRACIOSA L 390538N0280151W	081°	LEFT	170	3000 FT ALT FL 090	1 MIN
NESDU	087°	RIGHT	180	2000 FT 14000 FT	1 MIN
VESOB	268°	RIGHT	180	2000 FT 14000 FT	1 MIN

LPGR AD 2.23 ADDITIONAL INFORMATION

Potentially Dangerous Activities

Launch of unmanned Balloon flights (Atmospheric Research).

Bird Hazard warnings

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

LPGR AD 2.24 CHARTS RELATED TO THE AERODROME

Name	Page
AERODROME CHART- ICAO	LPGR AD 2.24.01-1

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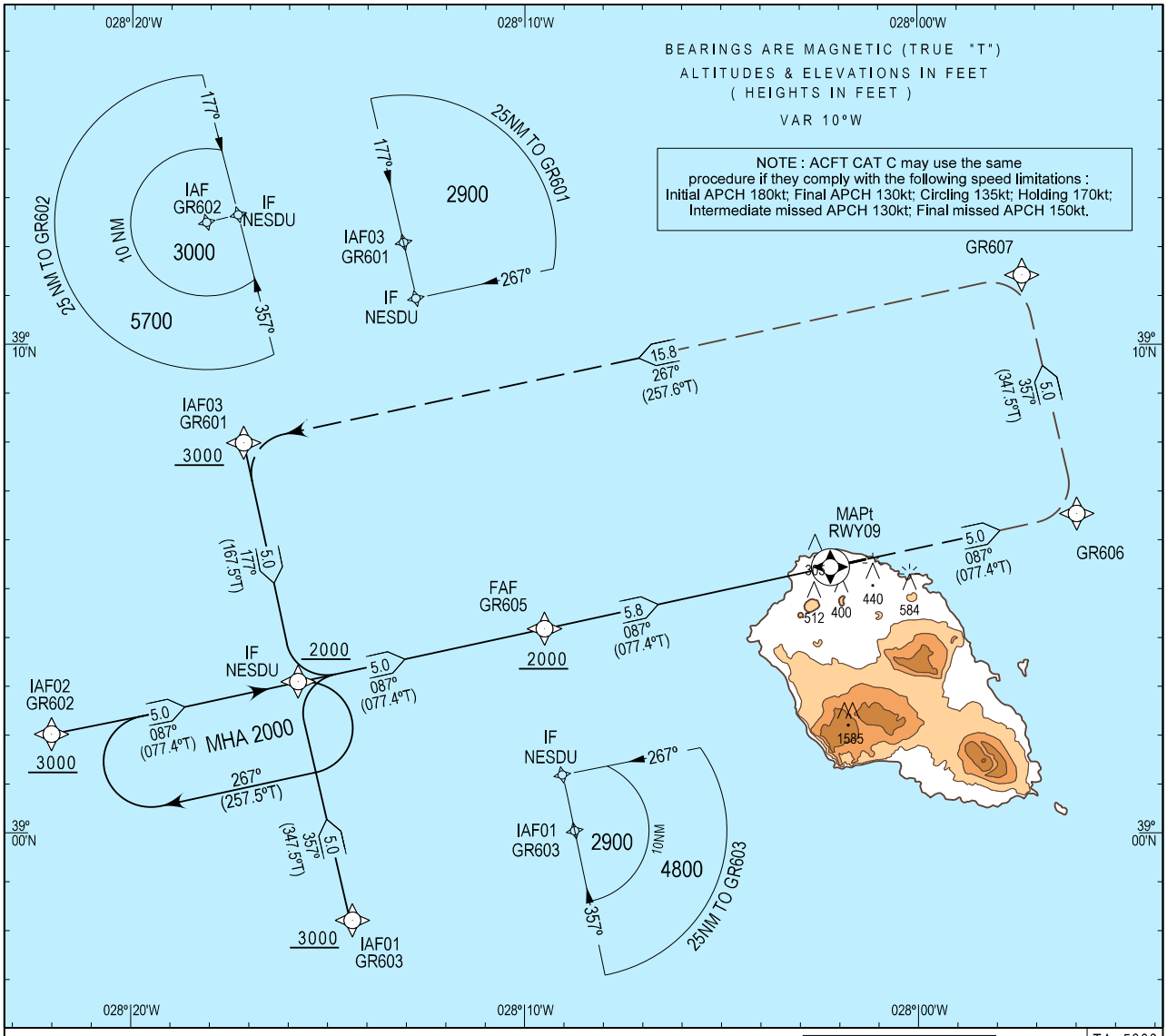
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 86 ft
HEIGHTS RELATED
THR RWY 09 - ELEV 81 ft

GRACIOSA INFORMATION 122.900
LAJES APPROACH 135.000
HORTA APPROACH 120.600

GRACIOSA (LPGR)
RNP
RWY 09
CAT A-B

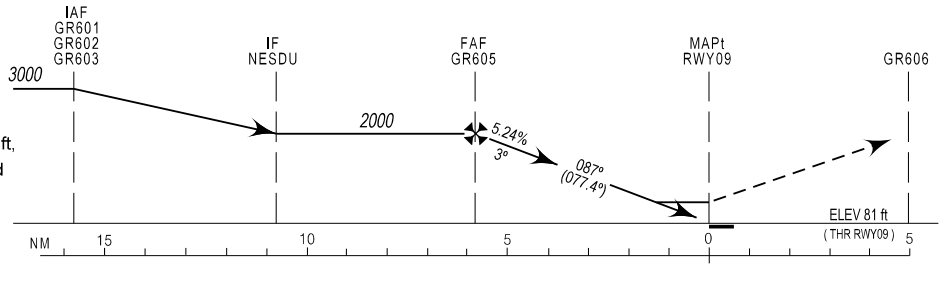


MISSED APPROACH:
Climb straight ahead to GR606, turn left to GR607 at 2000 ft, then turn left to GR601 at 3000 ft, and contact ATC.

RCF:
Squawk 7600. Climb straight ahead to GR606, turn left to GR607 at 2000 ft, then turn left to GR601 at 3000 ft, and perform another approach.

TA: 5000

BARO-VNAV MINIMUM
TEMPERATURE : +5°C



DIST THR NM	5	4	3	2	1
Altitude (height)	1746 (1665)	1419 (1338)	1095 (1014)	772 (691)	451 (370)

CAT	LNAV/VNAV		LNAV		CIRCLING NORTH		CIRCLING SOUTH	
	DA/H	OCH	MDA/H	OCH	MDA/H	OCH	MDA/H	OCH
A B	650 (569)	565	770 (689)	686	770 (689)	—	NOT AUTHORIZED	

Speed	kt	80	100	120	130
Rate of descent (5.2%)	ft / min	495	530	635	690

Speed note inserted

Instrument Approach Procedure Coding Table											
LPGR RNP RWY09 (IAF3 GR601)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	GR601	IAF	No	390759.63N 0281709.06W	- -	-	-	- 3000	-	-	RNP APCH
TF	NESDU	IF	No	390306.48N 0281545.61W	177 (167.5)	5.0	-	- 2000	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPGR RNP RWY09 (IAF1 GR603)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	GR603	IAF	No	385813.31N 0281422.35W	- -	-	-	- 3000	-	-	RNP APCH
TF	NESDU	IF	No	390306.48N 0281545.61W	357 (347.5)	5.0	-	- 2000	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPGR RNP RWY09 (IAF2 GR602)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	GR602	IAF	No	390201.32N 0282201.49W	- -	-	-	- 3000	-	-	RNP APCH
TF	NESDU	IF	No	390306.48N 0281545.61W	087 (077.4)	5.0	-	- 2000	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPGR RNP RWY09 (IF-FINAL-MISSED)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	NESDU	IF	No	390306.48N 0281545.61W	- -	-	-	- 2000	-	-	RNP APCH
TF	GR605	FAF	No	390411.64N 0280929.63W	087 (077.4)	5.0	-	 2000			RNP APCH
TF	THR RWY09	MAPt	Yes	390527.25N 0280213.38W	087 (077.4)	5.8	-			3.00°	RNP APCH
TF	GR606	MAWP	No	390632.45N 0275557.21W	087 (077.4)	5.0	Left				RNP APCH
TF	GR607	-	No	391125.64N 0275720.48W	357 (347.5)	5.0	Left				RNP APCH
TF	GR601	IAF	No	390759.63N 0281709.06W	267 (257.6)	15.79	-	 3000			RNP APCH

Instrument Approach Procedure Coding Table											
LPGR RNP RWY09 (HLDG NESDU)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
HM	NESDU	HLDG	Yes	390306.48N 0281545.61W	087 (077.4)	-	Right	14000 2000	180 kt	-	RNP APCH

I

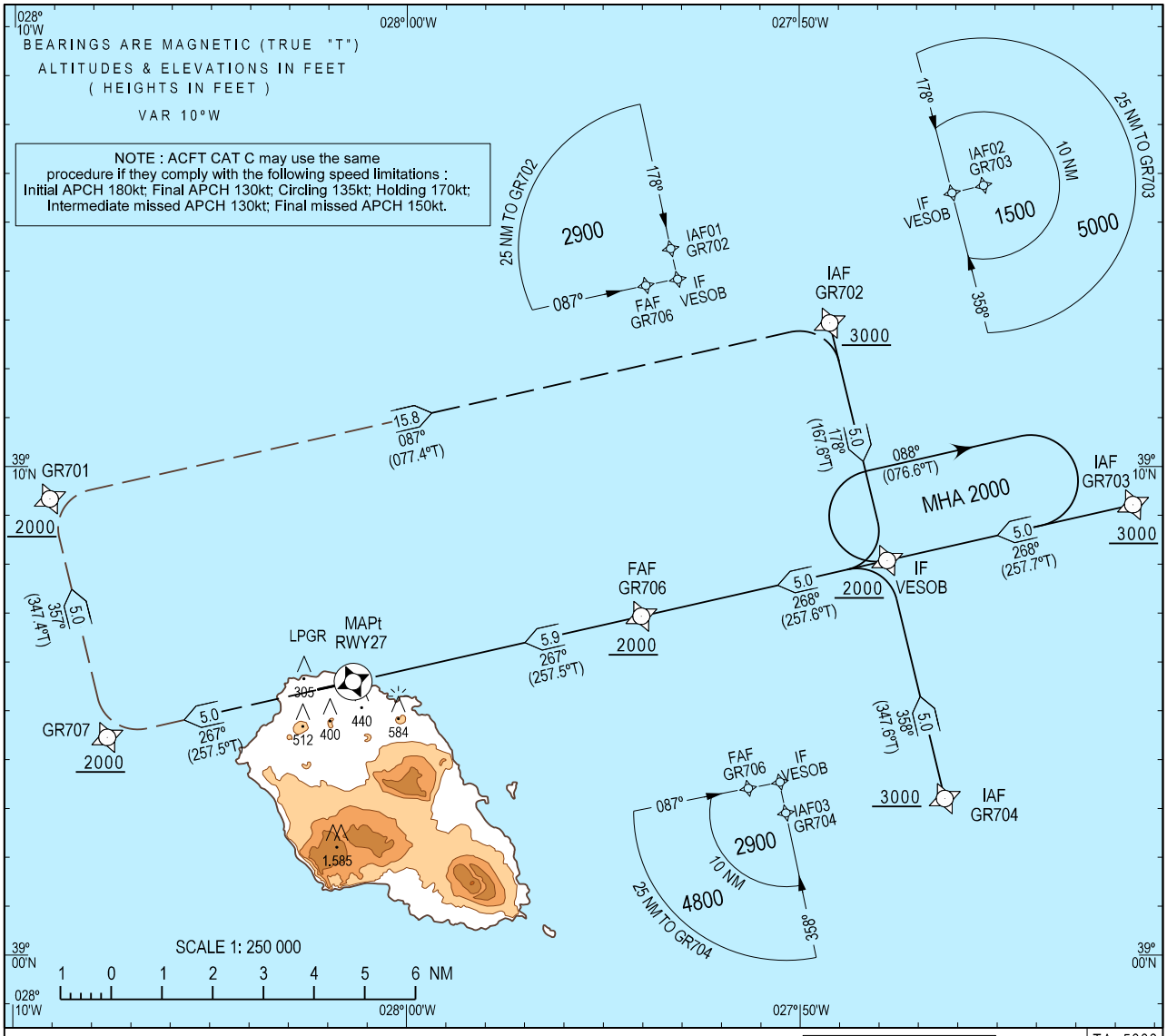
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 86 ft
HEIGHTS RELATED
THR RWY 27 - ELEV 85 ft

GRACIOSA INFORMATION 122.900
LAJES APPROACH 135.000
HORTA APPROACH 120.600

GRACIOSA (LPGR)

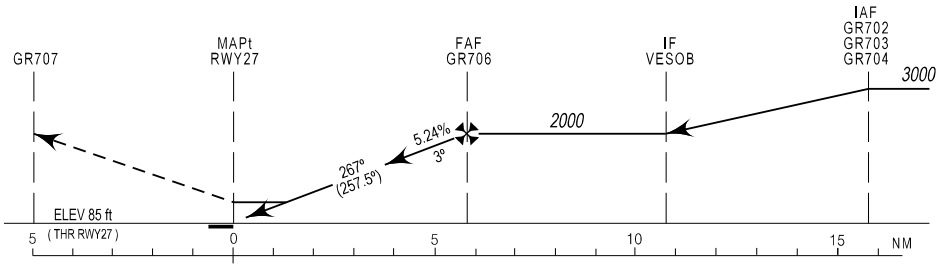
RNP
RWY 27
CAT A-B



MISSED APPROACH:
Climb straight ahead to GR707, turn right to GR701, then turn right to GR702 at 3000 ft, and contact ATC.

RCF:
Squawk 7600. Climb straight ahead to GR707, turn right to GR701, then turn right to GR702 at 3000 ft, and perform another approach.

BARO-VNAV MINIMUM TEMPERATURE : +5°C



DIST THR NM	5	4	3	2	1
Altitude (height)	1727 (1642)	1409 (1324)	1090 (1005)	772 (687)	453 (368)

CAT	LNAV/VNAV		LNAV		CIRCLING NORTH		CIRCLING SOUTH	
	DA/H	OCH	MDA/H	OCH	MDA/H	OCH	MDA/H	OCH
A B	600 (515)	507	710 (622)	623	710 (622)	—	NOT AUTHORIZED	

Speed	kt	80	100	120	130
Rate of descent (5.2%)	ft / min	495	530	635	690

Speed note inserted

Instrument Approach Procedure Coding Table											
LPGR RNP RWY27 (IAF1 GR702)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	GR702	IAF	No	391249.14N 0274914.26W	- -	-	-	- 3000	180 kt	-	RNP APCH
TF	VESOB	IF	No	390755.77N 0274751.37W	178 (167.6)	5.0	-	- 2000	180 kt	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPGR RNP RWY27 (IAF2 GR703)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	GR703	IAF	No	390900.08N 0274134.59W	- -	-	-	- 3000	180 kt	-	RNP APCH
TF	VESOB	IF	No	390755.77N 0274751.37W	268 (257.7)	5.0	-	- 2000	180 kt	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPGR RNP RWY27 (IAF3 GR704)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	GR704	IAF	No	390302.38N 0274628.68W	- -	-	-	- 3000	180 kt	-	RNP APCH
TF	VESOB	IF	No	390755.77N 0274751.37W	358 (347.6)	5.0	-	- 2000	180 kt	-	RNP APCH

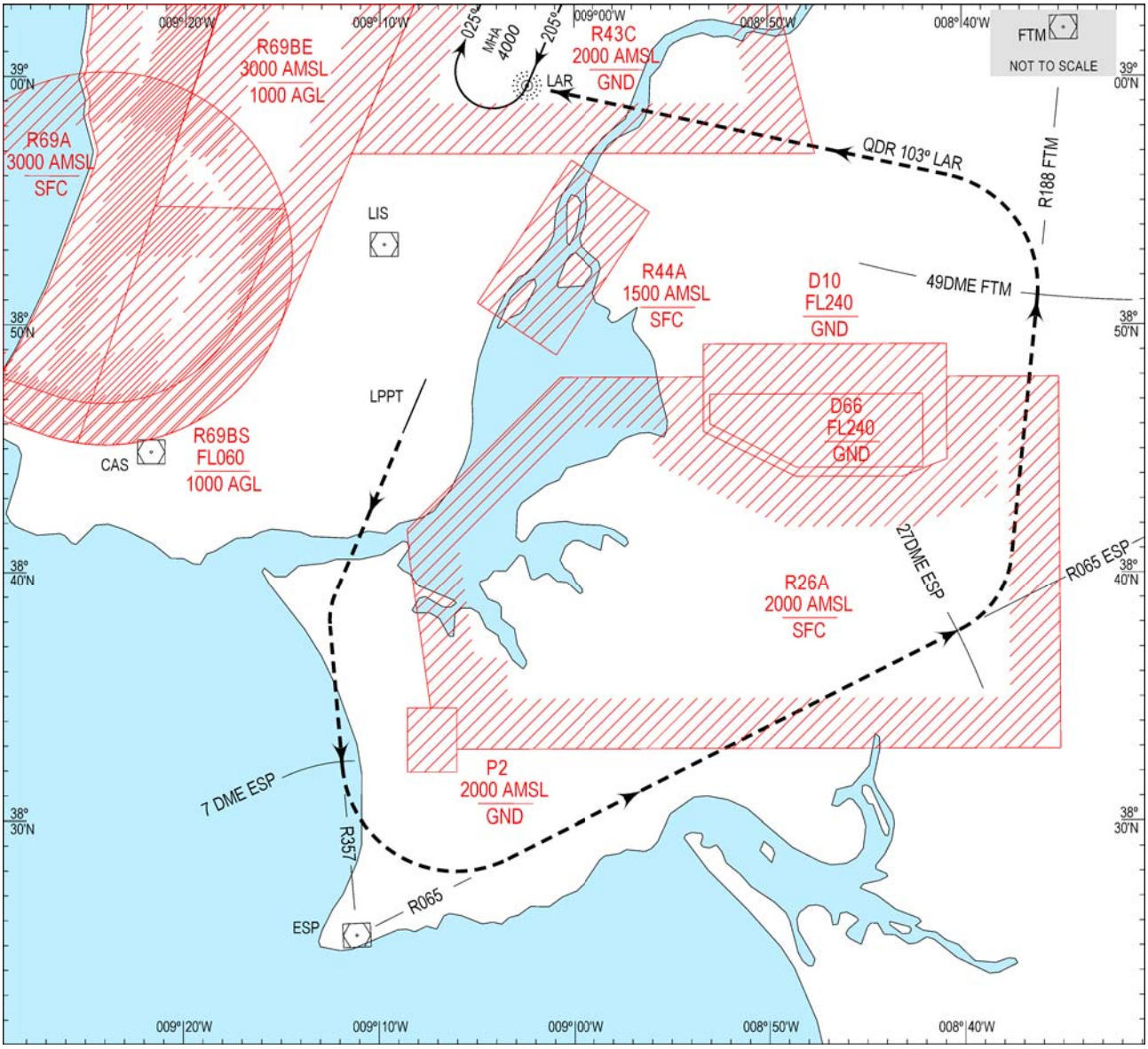
Instrument Approach Procedure Coding Table											
LPGR RNP RWY27 (IF-FINAL-MISSED)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	VESOB	IF	No	390755.77N 0274751.37W	- -	-	-	- 2000	180 kt	-	RNP APCH
TF	GR706	FAF	No	390651.12N 0275407.96W	268 (257.6)	5.0	-	 2000	130 kt	-	RNP APCH
TF	THR RWY27	MAPt	Yes	390536.18N 0280121.87W	267 (257.5)	5.85	-		130 kt	3.00°	RNP APCH
TF	GR707	MAWP	No	390430.81N 0280738.03W	267 (257.5)	5.0	Right	 2000	150 kt	-	RNP APCH
TF	GR701	-	No	390923.92N 0280902.21W	357 (347.4)	5.0	Right	 2000	150 kt	-	RNP APCH
TF	GR702	IAF	No	391249.14N 0274914.26W	087 (077.4)	15.76	-	 3000	150 kt	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPGR RNP RWY27 (HLDG VESOB)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
HM	VESOB	HLDG	Yes	390755.77N 0274751.37W	268 (257.6)	-	Right	14000 2000	180 kt	-	RNP APCH

10.2 RUNWAY 20

RADIO COMMUNICATIONS FAILURE

In case of RCF:
Squawk 7600. Climb FL070 straight-ahead to intercept and proceed R357 ESP DVOR/DME. At 7DME ESP DVOR/DME turn left to intercept and proceed R065 ESP DVOR/DME. At 27DME ESP DVOR/DME turn left to intercept and proceed R188 FTM DVOR. At 49DME FTM DVOR turn left to intercept and proceed QDR 103DEG LAR NDB holding. Complete one holding pattern descend to 4000FT to perform another LOC approach.



11. HOLDING PROCEDURES

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
ADSAD ADSAD 382841N0085852W RDL163-DME26 LIS DVOR/DME	343°	RIGHT	230	4000 FT ALT FL 140	5 NM
ADSAD ADSAD 382841N0085852W RDL163-DME26 LIS DVOR/DME	343°	RIGHT	230	FL 150 FL 200	8 NM
ARRUDA/LAR ARRUDA NDB 385940N0090225W	205°	RIGHT	230	4000 FT ALT FL 080	1 MIN
DEKKI DEKKI 385747N0084144W	272°	LEFT	230	FL 060 FL 140	1 MIN
EKLID EKLID 390833N0091549W	137°	RIGHT	230	FL 060 FL 140	1 MIN
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030	RIGHT	230	FL 090 FL 140	1 MIN
ESPICHEL/ESP ESPICHEL DVOR/DME 382527N0091108W	030	RIGHT	280	FL 150 FL 999	1.5 MIN
ESUTI ESUTI 375136N 0102549W	049°	LEFT	280	FL 250 FL 290	1.5 MIN
EXONA EXONA 385416N0080100W	245°	RIGHT	230	FL 110 FL 140	1 MIN
EXONA EXONA 385416N0080100W	245°	RIGHT	265	FL 150 FL 290	1.5 MIN
FATIMA/FTM FATIMA DVOR/DME 393956N0082934W	219°	LEFT	230	FL 100 FL 140	1 MIN
FATIMA/FTM FATIMA DVOR/DME 393956N0082934W	219°	LEFT	240	FL 150 FL 240	1.5 MIN
GANSU GANSU 380000N0094903W	047°	LEFT	230	FL 110 FL 140	1 MIN
GANSU GANSU 380000N0094903W	047°	LEFT	265	FL 150 FL 240	1.5 MIN
INBOM INBOM 400007N0081807W	192°	LEFT	230	FL 110 FL 140	1 MIN
INBOM INBOM 400007N0081807W	192°	LEFT	280	FL 150 FL 290	1.5 MIN
ITVIT ITVIT 385741N0083344W	272°	LEFT	230	FL 060 FL 140	1 MIN
LAZET LAZET 385526N0104016W	095°	RIGHT	280	FL 250 FL 280	1.5 MIN

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
LUVUP LUVUP 374313N0101007W	047°	LEFT	280	FL 250 FL 290	1.5 MIN
LUXUT LUXUT 375959N0090137W	344°	LEFT	230	FL 110 FL 140	1 MIN
LUXUT LUXUT 375959N0090137W	344°	LEFT	265	FL 150 FL 240	1.5 MIN
MAZUK MAZUK 383538N0093315W	092°	LEFT	230	FL 060 FL 140	1 MIN
NATID NATID 385254N0093252W	095°	LEFT	230	FL 060 FL 140	1 MIN
NATID NATID 385254N0093252W	095°	LEFT	265	FL 150 FL 240	1.5 MIN
ORTUG ORTUG 382414N0085946W	317°	RIGHT	230	FL 060 FL 140	1 MIN
PESEX PESEX 383532N0091413W	025°	RIGHT	200	3000 FT ALT FL 090	1 MIN
RINOR RINOR 391237N0084728W	224°	LEFT	230	FL 150 FL 200	1.5 MIN
RINOR RINOR 391237N0084728W	224°	LEFT	230	FL 070 FL 140	1 MIN
RULOX RULOX 385400N0100000W	089°	RIGHT	230	FL 110 FL 140	1 MIN
RULOX RULOX 385400N0100000W	089°	RIGHT	265	FL 150 FL 240	1.5 MIN
UNPOT UNPOT 381046N0100000W	049°	LEFT	230	FL 110 FL 140	1 MIN
UNPOT UNPOT 381046N0100000W	049°	LEFT	265	FL 150 FL 240	1.5 MIN
UPKAT UPKAT 385759N0090212W	205°	LEFT	200	3000 FT ALT FL 090	1 MIN
UPULO UPULO 390238N0073907W	245°	RIGHT	280	FL 250 FL 280	1.5 MIN
VATZI VATZI 373552N0085147W	344°	LEFT	280	FL 250 FL 290	1.5 MIN
XAMAX XAMAX 400152N0083210W	178°	LEFT	230	FL 110 FL 140	1 MIN
XAMAX XAMAX 400152N0083210W	178°	LEFT	280	FL 150 FL 290	1.5 MIN

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
YETSI YETSI 381918N0085343W	317°	RIGHT	230	FL 060 FL 140	1 MIN

LPPT AD 2.23 ADDITIONAL INFORMATION

1. Bird hazard warning

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

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

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

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

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

2. Wind / Turbulence

RWY 02

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

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

LPPT AD 2.24 CHARTS RELATED TO THE AERODROME

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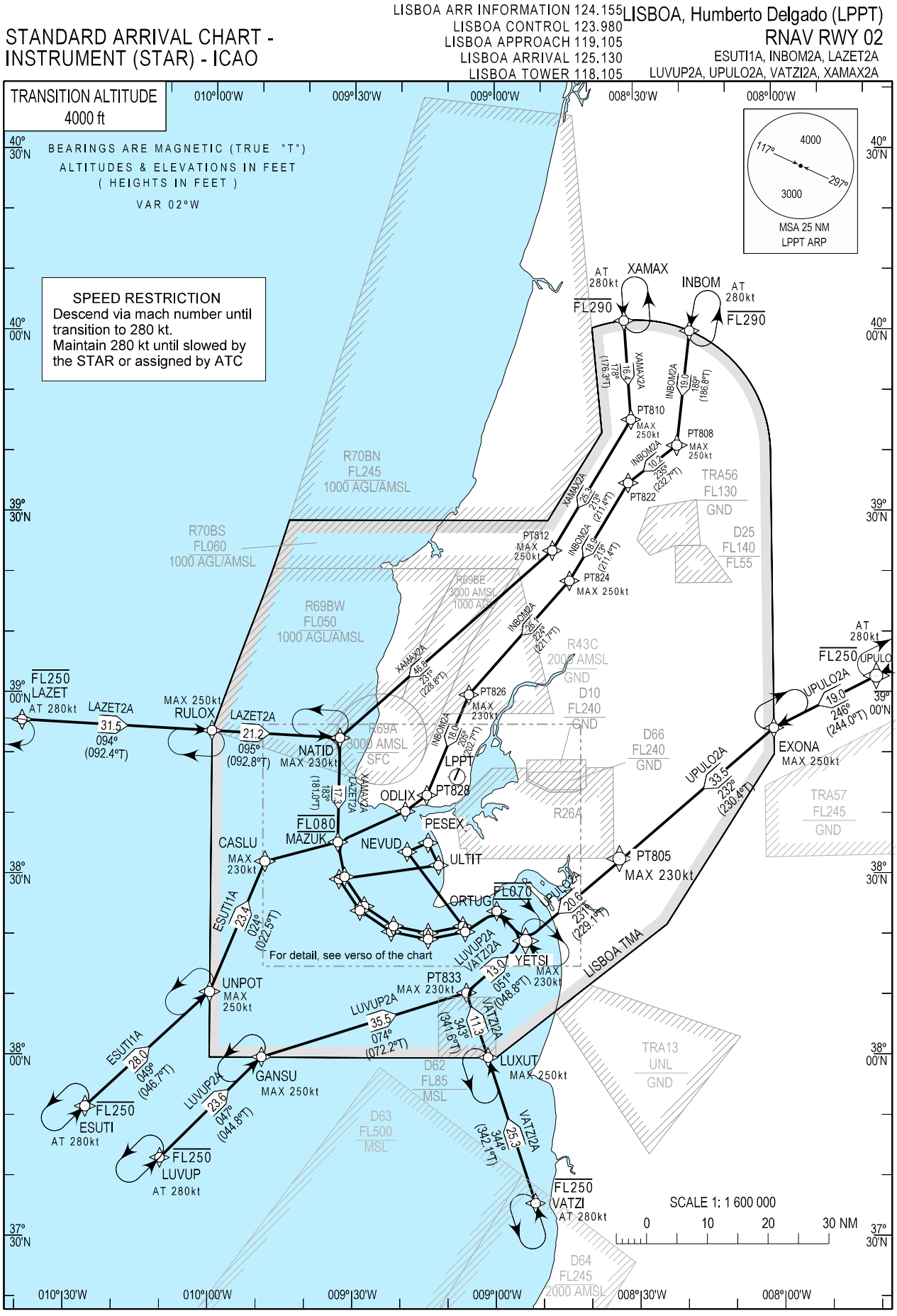
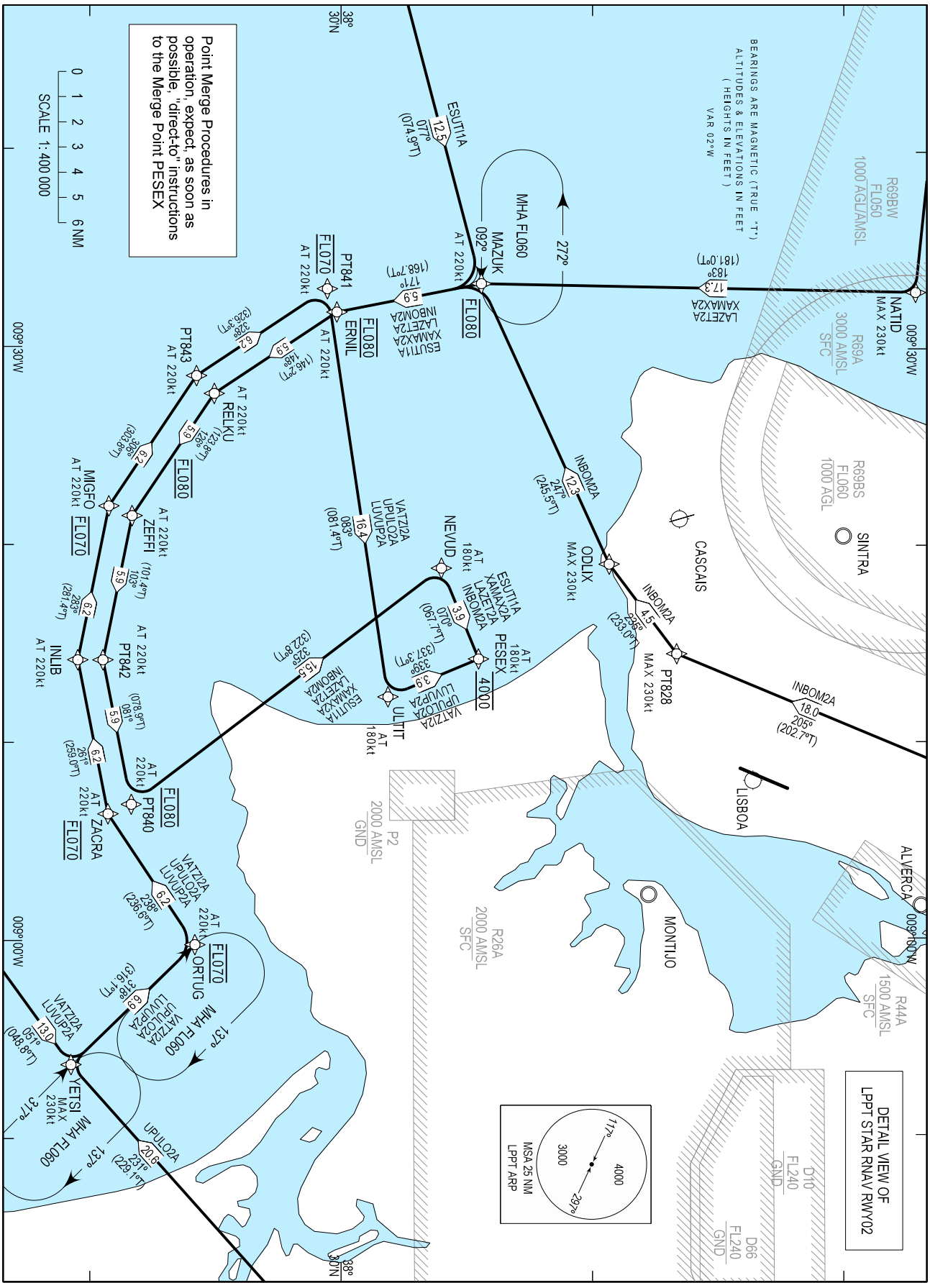


Procedures updated.



Procedures updated

LISBOA STAR RNAV1 ESUTI1A (RWY 02)

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	ESUTI	N	375135.67N 0102548.77W	-	-	-	- FL250	@280Kts	RNAV 1	Clearance Limit: PESEX.
TF	UNPOT	N	381045.63NN 0100000.00W	049 (046.7)	27.97	-	-	250Kts	RNAV 1	
TF	CASLU	N	383224.05N 0094835.92W	024 (022.5)	23.40	-	-	230Kts	RNAV 1	
TF	MAZUK	N	383537.82N 0093314.50W	077 (074.9)	12.47	-	@FL080	@220Kts	RNAV 1	
TF	ERNIL	N	382953.20N 0093147.03W	171 (168.7)	5.85	-	@FL080	@220Kts	RNAV 1	
TF	RELKU	N	382500.92N 0092738.80W	148 (146.2)	5.85	-	@FL080	@220Kts	RNAV 1	
TF	ZEFFI	N	382145.30N 0092127.79W	126 (123.8)	5.85	-	@FL080	@220Kts	RNAV 1	
TF	PT842	N	382035.89N 0091410.22W	103 (101.4)	5.85	-	@FL080	@220Kts	RNAV 1	
TF	PT840	N	382143.17N 0090652.11W	081 (078.9)	5.85	-	@FL080	@220Kts	RNAV 1	
TF	NEVUD	N	383403.69N 0091848.99W	325 (322.8)	15.49	-	-	@180Kts	RNAV 1	
TF	PESEX	N	383532.42N 0091412.69W	070 (067.7)	3.90	-	@4000FT	@180Kts	RNAV 1	

LISBOA STAR RNAV1 INBOM2A (RWY 02)

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	INBOM	N	400006.91N 0081807.21W	-	-	-	- FL290	@280 kt	RNAV 1	Clearance Limit: PESEX
TF	PT808	N	394111.83N 0082101.09W	189 (186.8)	19.03	-	-	250 kt	RNAV 1	
TF	PT822	N	393500.57N 0083129.79W	235 (232.7)	10.19	-	-	250 kt	RNAV 1	
TF	PT824	N	391851.89N 0084408.99W	213 (211.4)	18.88	-	-	250 kt	RNAV 1	
TF	PT826	N	390003.57N 0090535.23W	224 (221.7)	25.12	-		230 kt	RNAV 1	
TF	PT828	N	384325.34N 0091428.52W	205 (202.7)	18.01	-		230 kt	RNAV 1	
TF	ODLIX	N	384044.12N 0091901.50W	235 (233.0)	4.46	-		230 kt	RNAV 1	
TF	MAZUK	N	383537.82N 0093314.50W	247 (245.5)	12.25	-	@FL080	@220 kt	RNAV 1	
TF	ERNIL	N	382953.20N 0093147.03W	171 (168.7)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	RELKU	N	382500.92N 0092738.80W	148 (146.2)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	ZEFFI	N	382145.30N 0092127.79W	126 (123.8)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT842	N	382035.89N 0091410.22W	103 (101.4)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT840	N	382143.17N 0090652.11W	081 (078.9)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	NEVUD	N	383403.69N 0091848.99W	325 (322.8)	15.49	-	-	@180 kt	RNAV 1	
TF	PESEX	N	383532.42N 0091412.69W	070 (067.7)	3.90	-	@4000 ft	@180 kt	RNAV 1	

LISBOA STAR RNAV1 LAZET2A (RWY 02)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	LAZET	N	385526.20N 0104015.64W	-	-	-	- FL250	@280 kt	RNAV 1	Clearance Limit: PESEX
TF	RULOX	N	385400.00N 0100000.00W	094 (092.4)	31.46	-	-	250 kt	RNAV 1	
TF	NATID	N	385254.02N 0093251.90W	095 (092.8)	21.21	-	-	230 kt	RNAV 1	
TF	MAZUK	N	383537.82N 0093314.50W	183 (181.0)	17.26	-	@FL080	@220 kt	RNAV 1	
TF	ERNIL	N	382953.20N 0093147.03W	171 (168.7)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	RELKU	N	382500.92N 0092738.80W	148 (146.2)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	ZEFFI	N	382145.30N 0092127.79W	126 (123.8)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT842	N	382035.89N 0091410.22W	103 (101.4)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT840	N	382143.17N 0090652.11W	081 (078.9)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	NEVUD	N	383403.69N 0091848.99W	325 (322.8)	15.49	-	-	@180 kt	RNAV 1	
TF	PESEX	N	383532.42N 0091412.69W	070 (067.7)	3.90	-	@4000 ft	@180 kt	RNAV 1	

LISBOA STAR RNAV1 LUVUP2A (RWY 02)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	LUVUP	N	374313.23N 0101006.92W	-	-	-	- FL250	@280 kt	RNAV 1	Clearance Limit: PESEX. Pending on military activity.
TF	GANSU	N	380000.00N 0094903.18W	047 (044.8)	23.65	-	-	250 kt	RNAV 1	
TF	PT833	N	381043.61N 0090609.33W	074 (072.2)	35.52	-	-	230 kt	RNAV 1	
TF	YETSI	N	381917.51N 0085343.22W	051 (048.8)	13.01	-	-	230 kt	RNAV 1	
TF	ORTUG	N	382414.30N 0085945.89W	318 (316.1)	6.86	-	@FL070	@220 kt	RNAV 1	
TF	ZACRA	N	382047.59N 0090623.24W	238 (236.6)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	INLIB	N	381935.84N 0091410.46W	261 (259.0)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	MIGFO	N	382049.86N 0092157.10W	283 (281.4)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT843	N	382418.48N 0092832.80W	306 (303.8)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT841	N	382930.21N 0093257.62W	328 (326.3)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	ULTIT	N	383156.20N 0091217.65W	083 (081.3)	16.40	-	-	@180 kt	RNAV 1	
TF	PESEX	N	383532.42N 0091412.69W	339 (337.3)	3.90	-	@4000 ft	@180 kt	RNAV 1	

LISBOA STAR RNAV1 UPULO2A (RWY 02)

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	UPULO	N	390237.57N 0073907.04W	-	-	-	- FL250	@280 kt	RNAV 1	Clearance Limit: PESEX
TF	EXONA	N	385415.89N 0080100.00W	246 (244.0)	19.00	-	-	250 kt	RNAV 1	
TF	PT805	N	383250.37N 0083353.07W	232 (230.4)	33.47	-	-	230 kt	RNAV 1	
TF	YETSI	N	381917.51N 0085343.22W	231 (229.1)	20.64	-	-	230 kt	RNAV 1	
TF	ORTUG	N	382414.30N 0085945.89W	318 (316.1)	6.86	-	@FL070	@220 kt	RNAV 1	
TF	ZACRA	N	382047.59N 0090623.24W	238 (236.6)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	INLIB	N	381935.84N 0091410.46W	261 (259.0)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	MIGFO	N	382049.86N 0092157.10W	283 (281.4)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT843	N	382418.48N 0092832.80W	306 (303.8)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT841	N	382930.21N 0093257.62W	328 (326.3)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	ULTIT	N	383156.20N 0091217.65W	083 (081.4)	16.40	-	-	@180 kt	RNAV 1	
TF	PESEX	N	383532.42N 0091412.69W	339 (337.3)	3.90	-	@4000 ft	@180 kt	RNAV 1	

LISBOA STAR RNAV1 VATZI2A (RWY 02)

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	VATZI	N	373552.11N 0085147.09W	-	-	-	- FL250	@280 kt	RNAV 1	Clearance Limit: PESEX. Pending on military activity.
TF	LUXUT	N	375959.27N 0090136.98W	344 (342.1)	25.32	-	-	250 kt	RNAV 1	
TF	PT833	N	381043.61N 0090609.33W	343 (341.6)	11.31	-	-	230 kt	RNAV 1	
TF	YETSI	N	381917.51N 0085343.22W	051 (048.8)	13.01	-	-	230 kt	RNAV 1	
TF	ORTUG	N	382414.30N 0085945.89W	318 (316.1)	6.86	-	@FL070	@220 kt	RNAV 1	
TF	ZACRA	N	382047.59N 0090623.24W	238 (236.6)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	INLIB	N	381935.84N 0091410.46W	261 (259.0)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	MIGFO	N	382049.86N 0092157.10W	283 (281.4)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT843	N	382418.48N 0092832.80W	306 (303.8)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT841	N	382930.21N 0093257.62W	328 (326.3)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	ULTIT	N	383156.20N 0091217.65W	083 (081.4)	16.40	-	-	@180 kt	RNAV 1	
TF	PESEX	N	383532.42N 0091412.69W	339 (337.3)	3.90	-	@4000 ft	@180 kt	RNAV 1	

LISBOA STAR RNAV1 XAMAX2A (RWY 02)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	XAMAX	N	400151.96N 0083210.34W	-	-	-	- FL290	@280 kt	RNAV 1	
TF	PT810	N	394530.07N 0083048.57W	178 (176.3)	16.39	-	-	250 kt	RNAV 1	
TF	PT812	N	392353.37N 0084746.16W	213 (211.4)	25.26	-	-	250 kt	RNAV 1	
TF	NATID	N	385254.02N 0093251.90W	231 (228.8)	46.79	-	-	230 kt	RNAV 1	
TF	MAZUK	N	383537.82N 0093314.50W	183 (181.0)	17.26	-	@FL080	@220 kt	RNAV 1	
TF	ERNIL	N	382953.20N 0093147.03W	171 (168.7)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	RELKU	N	382500.92N 0092738.80W	148 (146.2)	5.85	-	@FL080	@220 kt	RNAV 1	Clearance Limit: PESEX
TF	ZEFFI	N	382145.30N 0092127.79W	126 (123.8)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT842	N	382035.89N 0091410.22W	103 (101.4)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT840	N	382143.17N 0090652.11W	081 (078.9)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	NEVUD	N	383403.69N 0091848.99W	325 (322.8)	15.49	-	-	@180 kt	RNAV 1	
TF	PESEX	N	383532.42N 0091412.69W	070 (067.7)	3.90	-	@4000 ft	@180 kt	RNAV 1	

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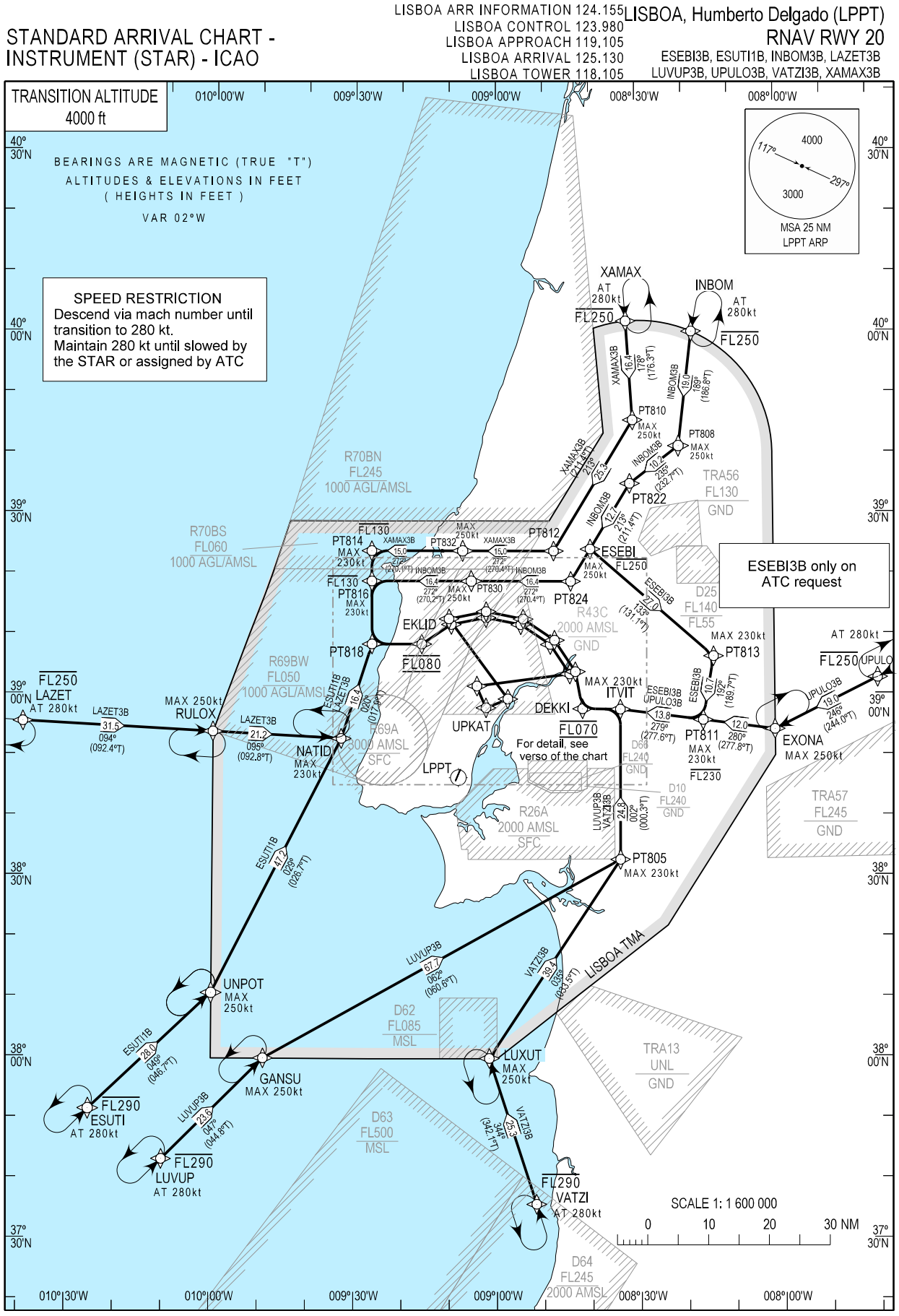
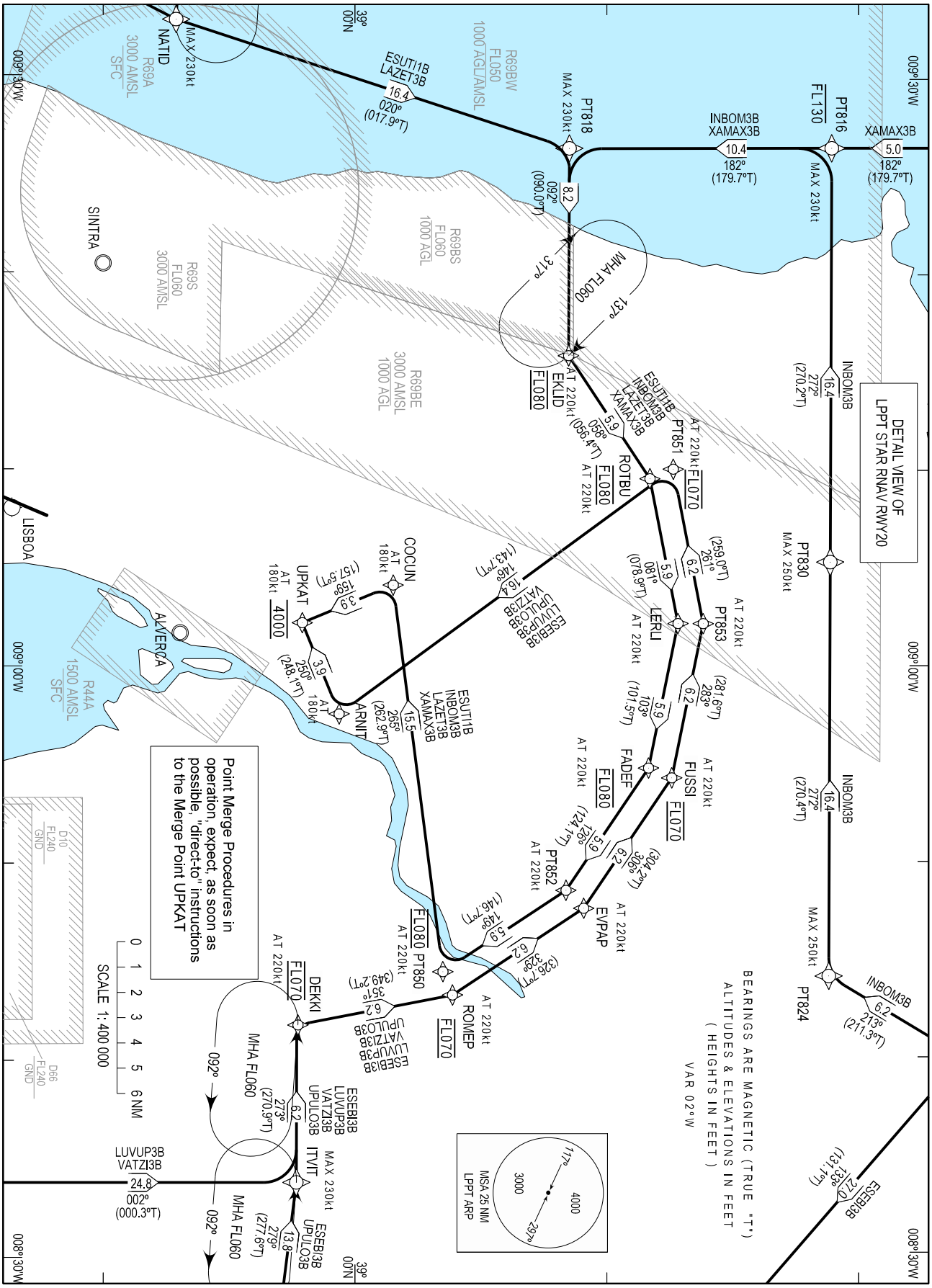


Procedures updated.



LISBOA STAR RNAV1 ESEBI3B (RWY 20) ONLY ON ATC REQUEST										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
TF	ESEBI	N	392411.48N 0083959.28W	-	-	-	- FL250	250 kt	RNAV 1	To be used only on ATC request. Clearance Limit: UPKAT
TF	PT813	N	390623.99N 0081353.30W	133 (131.1)	26.96	-	-	230 kt	RNAV 1	
TF	PT811	N	385552.44N 0081611.08W	192 (189.7)	10.67	-	- FL230	230 kt	RNAV 1	
TF	ITVIT	N	385741.47N 0083343.99W	279 (277.6)	13.81	-	-	230 kt	RNAV 1	
TF	DEKKI	N	385747.01N 0084144.40W	273 (270.9)	6.25	-	@FL070	@220 kt	RNAV 1	
TF	ROMEP	N	390355.31N 0084314.21W	351 (349.2)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	EVPAP	N	390908.65N 0084738.42W	329 (326.7)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	FUSSI	N	391239.03N 0085417.10W	306 (304.2)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT853	N	391354.17N 0090209.28W	283 (281.6)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT851	N	391242.50N 0091002.33W	261 (259.0)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	ARNIT	N	385926.60N 0085733.61W	146 (143.7)	16.43	-	-	@180 kt	RNAV 1	
TF	UPKAT	N	385759.04N 0090212.05W	250 (248.1)	3.90	-	@4000 ft	@180 kt	RNAV 1	

LISBOA STAR RNAV1 ESUTI 1B (RWY 20)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	ESUTI	N	375135.67N 0102548.77W	-	-	-	- FL290	@280Kts	RNAV 1	Clearance Limit: PESEX.
TF	UNPOT	N	381045.63NN 0100000.00W	049 (046.7)	27.97	-	-	250Kts	RNAV 1	
TF	NATID	N	385254.02N 0093251.90W	029 (026.7)	47.18	-	-	230Kts	RNAV 1	
TF	PT818	N	390832.66N 0092623.32W	020 (017.9)	16.42	-	-	230Kts	RNAV 1	
TF	EKLID	N	390832.54N 0091549.09W	092 (090.0)	8.22	-	@FL080	@220Kts	RNAV 1	
TF	ROTBU	N	391146.95N 0090933.03W	058 (056.4)	5.85	-	@FL080	@220Kts	RNAV 1	
TF	LERLI	N	391254.12N 0090209.64W	081 (078.9)	5.85	-	@FL080	@220Kts	RNAV 1	
TF	FADEF	N	391143.70N 0085447.07W	103 (101.5)	5.85	-	@FL080	@220Kts	RNAV 1	
TF	PT852	N	390826.49N 0084833.35W	126 (124.1)	5.85	-	@FL080	@220Kts	RNAV 1	
TF	PT850	N	390332.78N 0084425.61W	149 (146.7)	5.85	-	@FL080	@220Kts	RNAV 1	
TF	COCUN	N	390135.52N 0090406.96W	265 (262.8)	15.46	-	-	@180Kts	RNAV 1	
TF	UPKAT	N	385759.04N 0090212.05W	159 (157.5)	3.90	-	@4000FT	@180Kts	RNAV 1	

LISBOA STAR RNAV1 INBOM3B (RWY 20)

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	INBOM	N	400006.91N 0081807.21W	-	-	-	- FL250	@280 kt	RNAV 1	
TF	PT808	N	394111.83N 0082101.09W	189 (186.8)	19.03	-	-	250 kt	RNAV 1	
TF	PT822	N	393500.57N 0083129.79W	213 (211.4)	10.19	-	-	250 kt	RNAV 1	
TF	ESEBI	N	392411.48N 0083959.28W	213 (211.4)	12.65	-	-	250 kt	RNAV 1	
TF	PT824	N	391851.89N 0084408.99W	213 (211.3)	6.22	-	-	250 kt	RNAV 1	
TF	PT830	N	391856.68N 0090518.10W	272 (270.4)	16.42	-	-	250 kt	RNAV 1	
TF	PT816	N	391857.63N 0092627.23W	272 (270.2)	16.42	-	-FL130	230 kt	RNAV 1	
TF	PT818	N	390832.66N 0092623.32W	182 (179.7)	10.41	-	-	230 kt	RNAV 1	Clearance Limit: UPKAT
TF	EKLID	N	390832.54N 0091549.09W	092 (090.0)	8.22	-	@FL080	@220 kt	RNAV 1	
TF	ROTBU	N	391146.95N 0090933.03W	058 (056.4)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	LERLI	N	391254.12N 0090209.64W	081 (078.9)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	FADEF	N	391143.70N 0085447.07W	103 (101.5)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT852	N	390826.49N 0084833.35W	126 (124.1)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT850	N	390332.78N 0084425.61W	149 (146.7)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	COCUN	N	390135.52N 0090406.96W	265 (262.9)	15.46	-	-	@180 kt	RNAV 1	
TF	UPKAT	N	385759.04N 0090212.05W	159 (157.5)	3.90	-	@4000 ft	@180 kt	RNAV 1	

LISBOA STAR RNAV1 LAZET3B (RWY 20)

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	LAZET	N	385526.20N 0104015.64W	-	-	-	- FL250	@280 kt	RNAV 1	
TF	RULOX	N	385400.00N 0100000.00W	094 (092.4)	31.46	-	-	250 kt	RNAV 1	
TF	NATID	N	385254.02N 0093251.90W	095 (092.8)	21.21	-	-	230 kt	RNAV 1	
TF	PT818	N	390832.66N 0092623.32W	020 (017.9)	16.42	-	-	230 kt	RNAV 1	
TF	EKLID	N	390832.54N 0091549.09W	092 (090.0)	8.22	-	@FL080	@220 kt	RNAV 1	
TF	ROTBU	N	391146.95N 0090933.03W	058 (056.4)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	LERLI	N	391254.12N 0090209.64W	081 (078.9)	5.85	-	@FL080	@220 kt	RNAV 1	Clearance Limit: UPKAT
TF	FADEF	N	391143.70N 0085447.07W	103 (101.5)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT852	N	390826.49N 0084833.35W	126 (124.1)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT850	N	390332.78N 0084425.61W	149 (146.7)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	COCUN	N	390135.52N 0090406.96W	265 (262.8)	15.46	-	-	@180 kt	RNAV 1	
TF	UPKAT	N	385759.04N 0090212.05W	159 (157.5)	3.90	-	@4000 ft	@180 kt	RNAV 1	

LISBOA STAR RNAV1 LUVUP3B (RWY 20)

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	LUVUP	N	374313.23N 0101006.92W	-	-	-	- FL290	@280 kt	RNAV 1	
TF	GANSU	N	380000.00N 0094903.18W	047 (044.8)	23.65	-	-	250 kt	RNAV 1	
TF	PT805	N	383250.37N 0083353.07W	062 (060.6)	67.68	-	-	230 kt	RNAV 1	
TF	ITVIT	N	385741.47N 0083343.99W	002 (000.3)	24.83	-	-	230 kt	RNAV 1	
TF	DEKKI	N	385747.01N 0084144.40W	273 (270.9)	6.25	-	@FL070	@220 kt	RNAV 1	
TF	ROMEP	N	390355.31N 0084314.21W	351 (349.2)	6.24	-	@FL070	@220 kt	RNAV 1	Clearance Limit: UPKAT
TF	EVPAP	N	390908.65N 0084738.42W	329 (326.7)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	FUSSI	N	391239.03N 0085417.10W	306 (304.2)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT853	N	391354.17N 0090209.28W	283 (281.6)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT851	N	391242.50N 0091002.33W	261 (259.0)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	ARNIT	N	385926.60N 0085733.61W	146 (143.7)	16.43	-	-	@180 kt	RNAV 1	
TF	UPKAT	N	385759.04N 0090212.05W	250 (248.1)	3.90	-	@4000 ft	@180 kt	RNAV 1	

LISBOA STAR RNAV1 UPULO3B (RWY 20)

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	UPULO	N	390237.57N 0073907.04W	-	-	-	- FL250	@280 kt	RNAV 1	
TF	EXONA	N	385415.89N 0080100.00W	246 (244.0)	19.00	-	-	250 kt	RNAV 1	
TF	PT811	N	385552.44N 0081611.08W	280 (277.8)	11.96	-	-	230 kt	RNAV 1	
TF	ITVIT	N	385741.47N 0083343.99W	279 (277.6)	13.81	-	-	230 kt	RNAV 1	
TF	DEKKI	N	385747.01N 0084144.40W	273 (270.9)	6.25	-	@FL070	@220 kt	RNAV 1	
TF	ROMEP	N	390355.31N 0084314.21W	351 (349.2)	6.24	-	@FL070	@220 kt	RNAV 1	Clearance Limit: UPKAT
TF	EVPAP	N	390908.65N 0084738.42W	329 (326.7)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	FUSSI	N	391239.03N 0085417.10W	306 (304.2)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT853	N	391354.17N 0090209.28W	283 (281.6)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT851	N	391242.50N 0091002.33W	261 (259.0)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	ARNIT	N	385926.60N 0085733.61W	146 (143.7)	16.43	-	-	@180 kt	RNAV 1	
TF	UPKAT	N	385759.04N 0090212.05W	250 (248.1)	3.90	-	@4000 ft	@180 kt	RNAV 1	

LISBOA STAR RNAV1 VATZI3B (RWY 20)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	VATZI	N	373552.11N 0085147.09W	-	-	-	- FL290	@280 kt	RNAV 1	Clearance Limit: UPKAT. Pending on military activity.
TF	LUXUT	N	375959.27N 0090136.98W	344 (342.1)	25.32	-	-	250 kt	RNAV 1	
TF	PT805	N	383250.37N 0083353.07W	035 (033.5)	39.42	-	-	230 kt	RNAV 1	
TF	ITVIT	N	385741.47N 0083343.99W	002 (000.3)	24.83	-	-	230 kt	RNAV 1	
TF	DEKKI	N	385747.01N 0084144.40W	273 (270.9)	6.25	-	@FL070	@220 kt	RNAV 1	
TF	ROMEP	N	390355.31N 0084314.21W	351 (349.2)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	EVPAP	N	390908.65N 0084738.42W	329 (326.7)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	FUSSI	N	391239.03N 0085417.10W	306 (304.2)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT853	N	391354.17N 0090209.28W	283 (281.6)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	PT851	N	391242.50N 0091002.33W	261 (259.0)	6.24	-	@FL070	@220 kt	RNAV 1	
TF	ARNIT	N	385926.60N 0085733.61W	146 (143.7)	16.43	-	-	@180 kt	RNAV 1	
TF	UPKAT	N	385759.04N 0090212.05W	250 (248.1)	3.90	-	@4000 ft	@180 kt	RNAV 1	

LISBOA STAR RNAV1 XAMAX3B (RWY 20)										
Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	XAMAX	N	400151.96N 0083210.34W	-	-	-	- FL250	@280 kt	RNAV 1	Clearance Limit: UPKAT
TF	PT810	N	394530.07N 0083048.57W	178 (176.3)	16.39	-	-	250 kt	RNAV 1	
TF	PT812	N	392353.37N 0084746.16W	213 (211.4)	25.26	-	-	250 kt	RNAV 1	
TF	PT832	N	392357.30N 0090707.63W	272 (270.4)	15.01	-	-	250 kt	RNAV 1	
TF	PT814	N	392358.01N 0092629.12W	272 (270.1)	15.01	-	- FL130	230 kt	RNAV 1	
TF	PT816	N	391857.63N 0092627.23W	182 (179.7)	5.00	-	-	230 kt	RNAV 1	
TF	PT818	N	390832.66N 0092623.32W	182 (179.7)	10.41	-	-	230 kt	RNAV 1	
TF	EKLID	N	390832.54N 0091549.09W	092 (090.0)	8.22	-	@FL080	@220 kt	RNAV 1	
TF	ROTBU	N	391146.95N 0090933.03W	058 (056.4)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	LERLI	N	391254.12N 0090209.64W	081 (078.9)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	FADEF	N	391143.70N 0085447.07W	103 (101.5)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT852	N	390826.49N 0084833.35W	126 (124.1)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	PT850	N	390332.78N 0084425.61W	149 (146.7)	5.85	-	@FL080	@220 kt	RNAV 1	
TF	COCUN	N	390135.52N 0090406.96W	265 (262.8)	15.46	-	-	@180 kt	RNAV 1	
TF	UPKAT	N	385759.04N 0090212.05W	159 (157.5)	3.90	-	@4000 ft	@180 kt	RNAV 1	

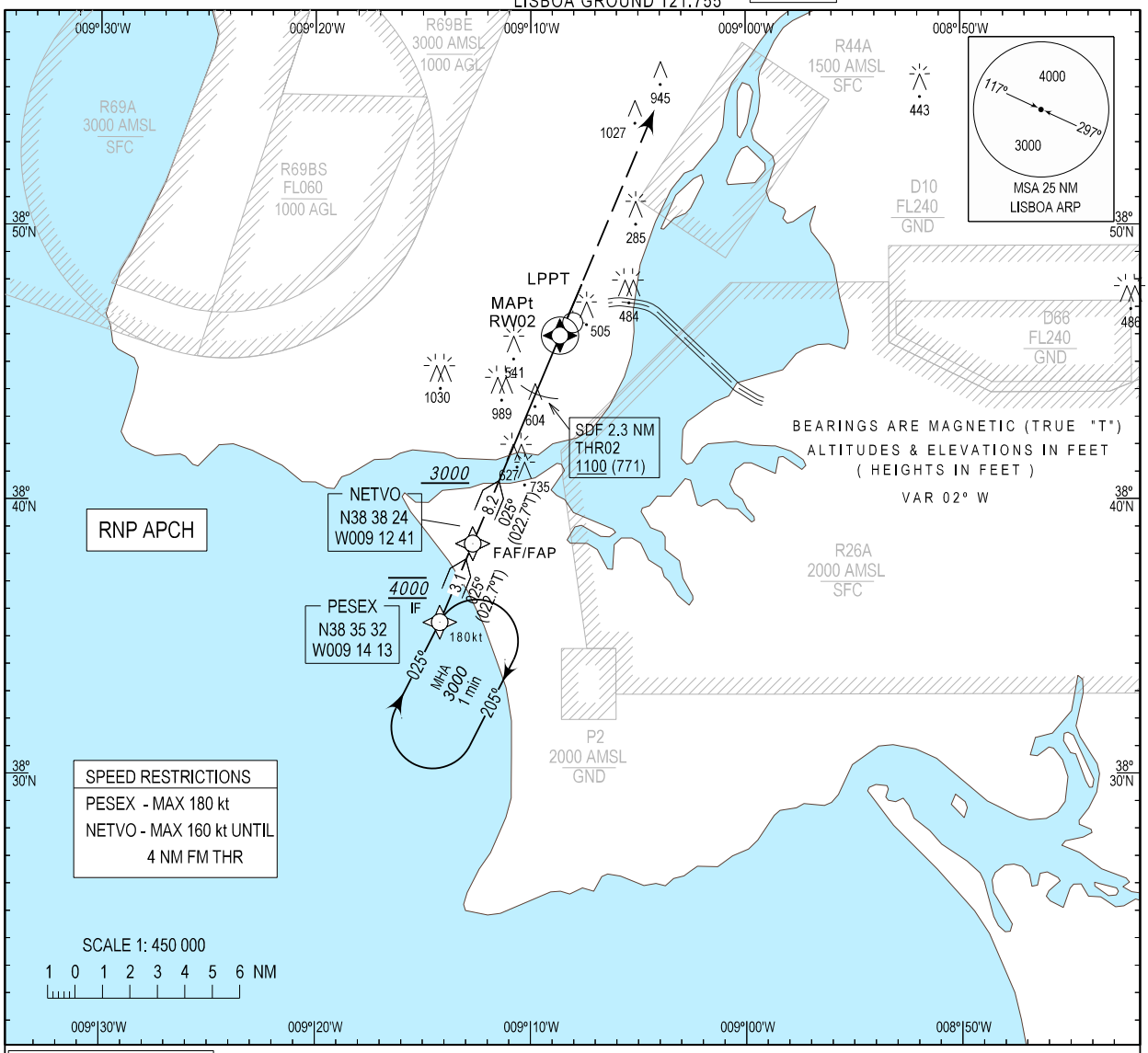
INSTRUMENT APPROACH CHART - ICAO

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

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

EGNOS
CH 48477
E02A
RDH: 50

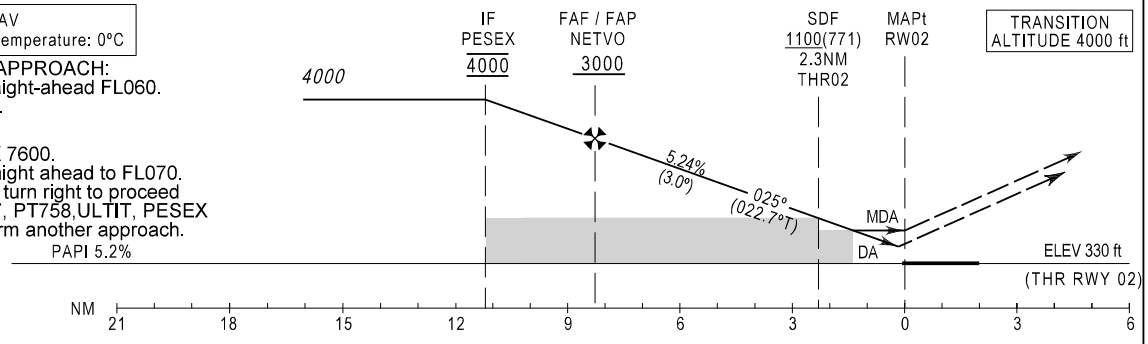
LISBOA
Humberto Delgado (LPPT)
RNP RWY 02



BARO-VNAV
minimum temperature: 0°C

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

RCF:
SQUAWK 7600.
Climb straight ahead to FL070.
At 2000 ft turn right to proceed via PT757, PT758,ULTIT, PESEX and perform another approach.



CAT	LPV DA(H)	LPV OCH	LNAV/VNAV DA(H)	LNAV/VNAV OCH	LNAV MDA(H)	LNAV OCH	CIRCLING MDA(H)	CIRCLING OCH
A	590 (261)	258	760 (431)	427	830 (501)	492	1500(1131)	1126
B	600 (271)	270						
C	610 (281)	278					1580(1211)	1206
D	620 (291)	288						

DIST THR NM	5	4	3	2	1
Altitude (height)	1972 (1642)	1654 (1324)	1335 (1005)	1017 (687)	698 (368)

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

New procedure.

Instrument Approach Procedure Coding Table
LPPT RNP RWY02

Serial # / Procedure designator	Navigational performance	Path descriptor	Waypoint identifier	Type	Waypoint coordinates	Fly-Over	(True track [°]) / Magnetic track [°]	Distance [NM]	Turn direction	Upper limit [ft] / Lower limit [ft]	Speed [kt]	VPA [°]	TCH (ft)
1 / RNP RWY02	RNP APCH	IF	PESEX	IF	38°35'32.42"N 009°14'12.69"W	-			-	@4000	180	-	-
2 / RNP RWY02	RNP APCH	TF	NETVO	FAF/FAP	38°38'24.16"N 009°12'41.03"W	-	(022.7°) 025°	3.10		+3000	160		
3 / RNP RWY02	RNP APCH	TF	RWY02 THR	MAPt (LNAV ONLY)	38°45'59.15"N / 009°08'38.04"W	Y	(022.7°) 025°	8.21	-	-	-	3.00	50
4 / RNP RWY02	RNP APCH	VM	-	-	-	-	(022.7°) 025°	-	-	@FL060	-	-	-
Serial # / Procedure designator	**Navigational performance**	**Path descriptor**	**Waypoint identifier**	**Type**	**Waypoint coordinates**	**Fly-Over**	**(True track [°]) / Magnetic track [°]**	**Distance [NM]**	**Turn direction**	**Upper limit [ft] / Lower limit [ft]**	**Speed [kts]**	**VPA [°]**	**TCH (ft)**
1 / RNP RWY02	RNP APCH	HM	PESEX	HLDG	38°35'32.42"N 009°14'12.69"W	Y	(022.7°) 025°	1 min	R	FL090 / 3000	185		

Input data

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

Output data

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

Required Additional Data

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

above these values are listed below:

Phase	RWY	Procedure IDENT	Segment	Procedure Bank Angle
INITIAL	12	XUVAP	SM540-SM539	20.6º
INITIAL	30	SM800	SM650-SM642	23.6º
INITIAL	30	SM800 SM700	SM642-SM640	22.8º
INITIAL	30	SM800 SM700 PETUD	SM630-SM620	22.3º

b) VSS (Visual Segment Surface) Penetrations

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

II (Seventh Edition):

Surveyed obstacle (man-made obstacle) penetrates the VSS of runway 12:

RWY 12

Type	Coordinates	Top Altitude	Amount of Penetration	RNP Value
Building	374456.055N 0254252.418W	94.68 M 311 FT	3.12 M	All values
***Obstacles with a height less than 15 M above THR12 may be disregarded according to the referred above document.**				

6. HOLDING PROCEDURES

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
DOZIV DOZIV 3730230253403W	028°	RIGHT	230	4000 FT ALT FL 140	1 MIN
PETUD PETUD 372955N0254820W RDL192-DME21 VMG DVOR/DME	012°	RIGHT	230	3000 FT ALT FL 140	5 NM
PETUD PETUD 372955N0254820W	013°	RIGHT	230	3000 FT ALT FL 140	1 MIN
PONTA DELGADA/PD PONTA DELGADA L 374406N0254030W	135°	RIGHT	230	4800 FT ALT FL 140	1 MIN
REDSO REDSO 373853N0254743W	118°	RIGHT	230	4000 FT ALT FL 140	1 MIN
SAO MIGUEL/VMG SAO MIGUEL DVOR/DME 375046N0254529W	156°	LEFT	230	5500 FT ALT FL 140	1 MIN
SAO MIGUEL/VMG SAO MIGUEL DVOR/DME 375046N0254529W	156°	LEFT	280	FL 150 FL 999	1.5 MIN
SM700 SM700 375500N0261527W	118°	RIGHT	230	4500 FT ALT FL 140	1 MIN
SM800 SM800 380411N0260847W	146°	LEFT	230	4500 FT ALT FL 140	1 MIN
SM900 SM900 375551N0253635W	276°	RIGHT	230	4500 FT ALT FL 140	1 MIN

HLDG ID/FIX/WPT Coordinates	INBD TR (MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL/FT (MSL)	TIME (MIN) or DIST OUBD
TUSEX TUSEX 374925N0260535W	092°	RIGHT	230	4000 FT ALT FL 140	1 MIN
TUSEX TUSEX 374925N0260535W RDL 271-DME16 VMG DVOR/DME	091°	RIGHT	230	4000 FT ALT FL 140	5 NM
XUVAP XUVAP 373521N0251301W RDL127-DME30 VMG DVOR/DME	307°	RIGHT	230	5500 FT ALT FL 140	5 NM
XUVAP XUVAP 373521N0251301W	307°	RIGHT	230	5500 FT ALT FL 140	1 MIN
XUVAP XUVAP 373521N0251301W RDL127-DME30 VMG DVOR/DME	307°	RIGHT	280	FL 150 FL 999	12 NM

LPPD AD 2.23 ADDITIONAL INFORMATION

1. Bird Hazard Warning

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

2. Signalling Terrain Lighting

A set of 8 aligned high intensity Type A and non-sequential flashing lights, spaced 60M, located 6000M from THR 12 and 2200M left side of extended centre line, installed to identify natural obstacle (Coast) proximity during RWY 12 approach operations.

3. Grass cutting

Grass cutting will take place along Strip RWY 12/30, Monday to Sunday 07:00-00:59 (06:00-23:59). Men and equipment under Tower control and airport authority supervision.

LPPD AD 2.24 CHARTS RELATED TO AN AERODROME

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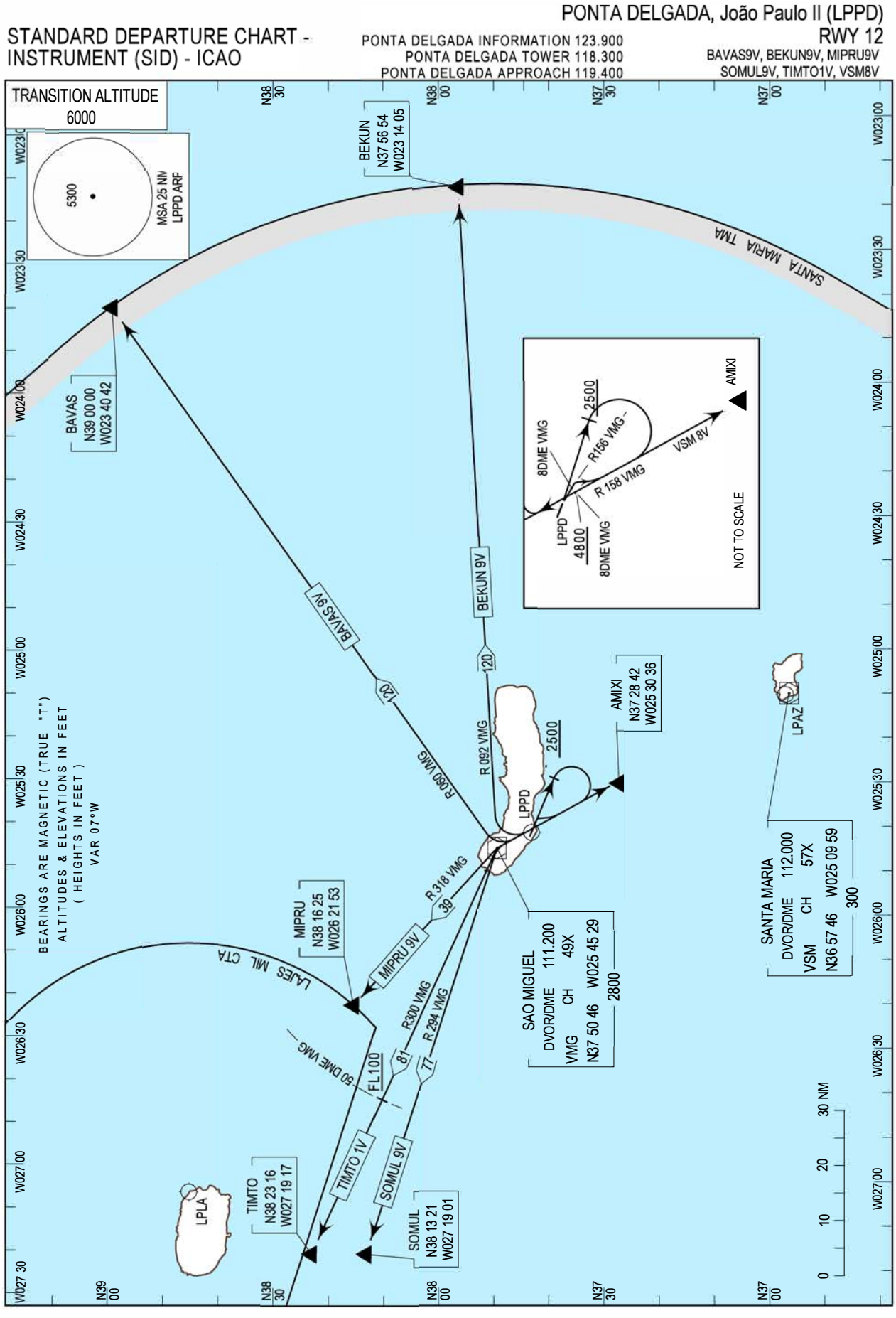

MSA Updated

Ponta Delgada STANDARD INSTRUMENT DEPARTURE (SID) RUNWAY 12		
Designator	**Route**	**Remarks**
BAVAS9V	Climb straight ahead to 2500FT, upon reaching turn right to VMG DVOR/DME on RDL158 VMG DVOR/DME; at VMG DVOR/DME turn right to proceed on RDL060 to BAVAS.	Note: Cross RDL158 DME8 VMG DVOR/DME at or above 4800FT climbing. Contact Ponta Delgada Approach, FREQ 119.400MHZ.
BEKUN9V	Climb straight ahead to 2500FT, upon reaching turn right to VMG DVOR/DME on RDL158 VMG DVOR/DME; at VMG DVOR/DME turn right to proceed on RDL092 to BEKUN.	Note: Cross RDL158 DME8 VMG DVOR/DME at or above 4800FT climbing. Contact Ponta Delgada Approach, FREQ 119.400MHZ.
MIPRU9V	Climb straight ahead to 2500FT, upon reaching turn right to VMG DVOR/DME on RDL158 VMG DVOR/DME; at VMG DVOR/DME turn left to proceed on RDL318 to MIPRU.	Note: Cross RDL158 DME8 VMG DVOR/DME at or above 4800FT climbing. Contact Ponta Delgada Approach, FREQ 119.400MHZ.
SOMUL9V	Climb straight ahead to 2500FT, upon reaching turn right to VMG DVOR/DME on RDL158 VMG DVOR/DME; at VMG DVOR/DME turn left to proceed on RDL294 to SOMUL.	Note: Cross RDL158 DME8 VMG DVOR/DME at or above 4800FT climbing. Contact Ponta Delgada Approach, FREQ 119.400MHZ.
TIMTO1V	Climb straight ahead to 2500FT, upon reaching turn right to VMG DVOR/DME on RDL158 VMG DVOR/DME; at VMG DVOR/DME turn left to proceed on RDL300 to TIMTO.	Note: Cross RDL158 DME8 VMG DVOR/DME at or above 4800FT climbing. Cross 50DME VMG DVOR/DME outbound at FL100 or above. Contact Ponta Delgada Approach, FREQ 119.400MHZ.
VSM8V	After RDL156 DME8 VMG DVOR/DME turn right to intercept VMG RDL 158 to AMIXI	Unreliable signal from VMG VOR/DME below altitude 1500 FT. Contact Ponta Delgada Approach, FREQ 119.400MHZ.

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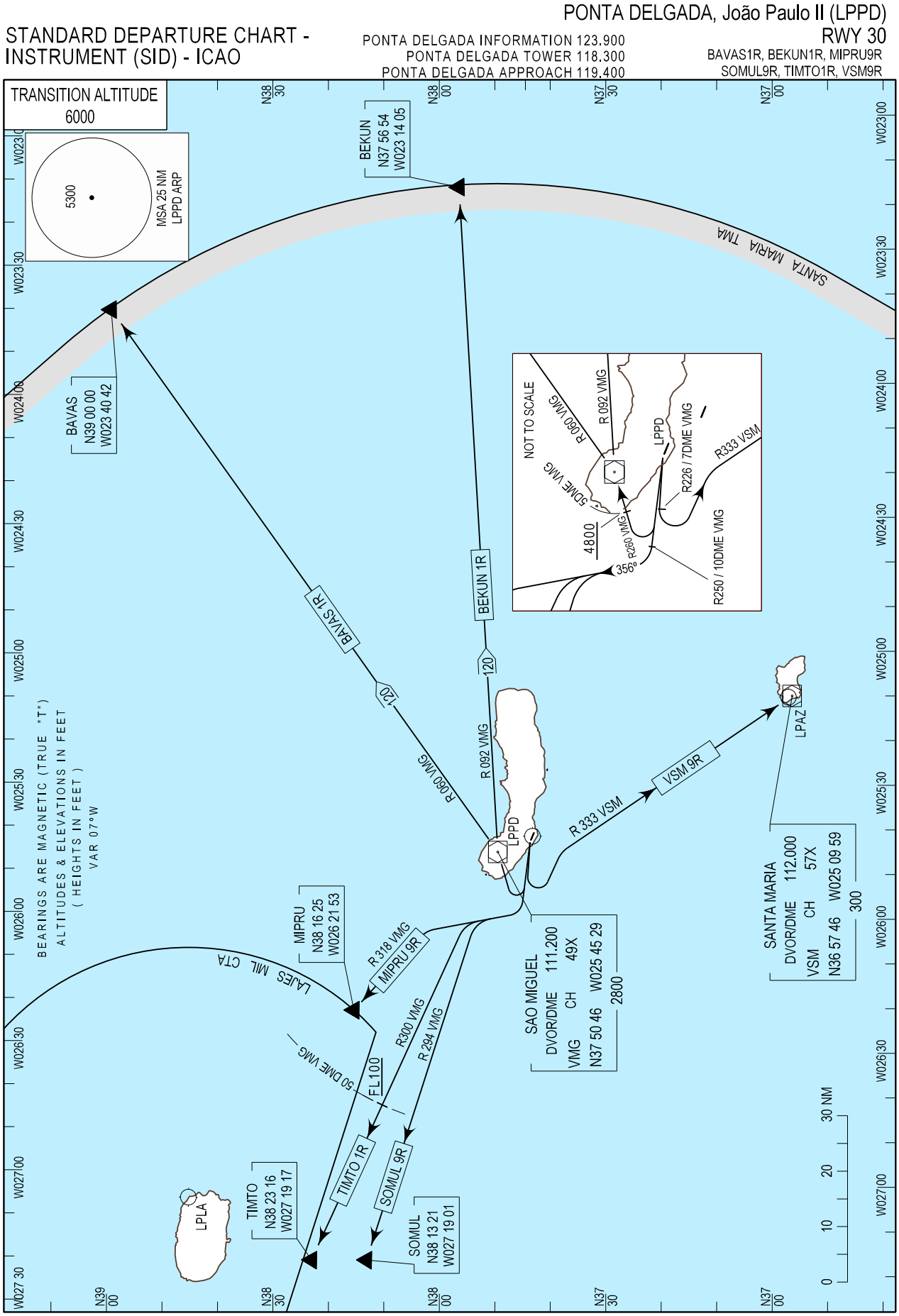

MSA Updated.

Ponta Delgada STANDARD INSTRUMENT DEPARTURE (SID) RUNWAY 30		
Designator	**Route**	**Remarks**
BAVAS1R	After departure turn left 15°. At 3000FT climbing turn right to VMG DVOR/DME on RDL260 VMG DVOR/DME. Proceed on RDL060 VMG DVOR/DME to BAVAS.	Note: Cross RDL260 DME5 VMG DVOR/DME at or above 4800FT. Contact Ponta Delgada Approach, FREQ 119.400MHZ.
BEKUN1R	After departure turn left 15°. At 3000FT climbing turn right to VMG DVOR/DME on RDL260 VMG DVOR/DME. Proceed on RDL092 VMG DVOR/DME to BEKUN.	Note: Cross RDL260 DME5 VMG DVOR/DME at or above 4800FT. Contact Ponta Delgada Approach, FREQ 119.400MHZ.
MIPRU9R	After departure turn left 15° to intercept RDL250 DME10 VMG DVOR/DME then turn right to track 356 to intercept RDL318 VMG DVOR/DME to MIPRU.	Note: After turning right to track 356 keep beyond DME5 VMG DVOR/DME. Contact Ponta Delgada Approach, FREQ 119.400MHZ.
SOMUL9R	After departure turn left 15° to intercept RDL250 DME10 VMG DVOR/DME then turn right to track 356 to intercept RDL294 VMG DVOR/DME to SOMUL.	Note: After turning right to track 356 keep beyond DME5 VMG DVOR/DME. Contact Ponta Delgada Approach, FREQ 119.400MHZ.
TIMTO1R	After departure turn left 15° to intercept RDL250 DME10 VMG DVOR/DME then turn right to track 356 to intercept RDL300 VMG DVOR/DME to TIMTO.	Note: After turning right to track 356 keep beyond DME5 VMG DVOR/DME. Cross 50DME VMG DVOR/DME outbound at FL100 or above. Contact Ponta Delgada Approach, FREQ 119.400MHZ.
VSM9R	After departure turn left 15° to intercept RDL226 DME7 VMG DVOR/DME. At 1500FT or above turn left to intercept RDL333 VSM DVOR/DME to VSM DVOR/DME.	Contact Ponta Delgada Approach, FREQ 119.400MHZ.

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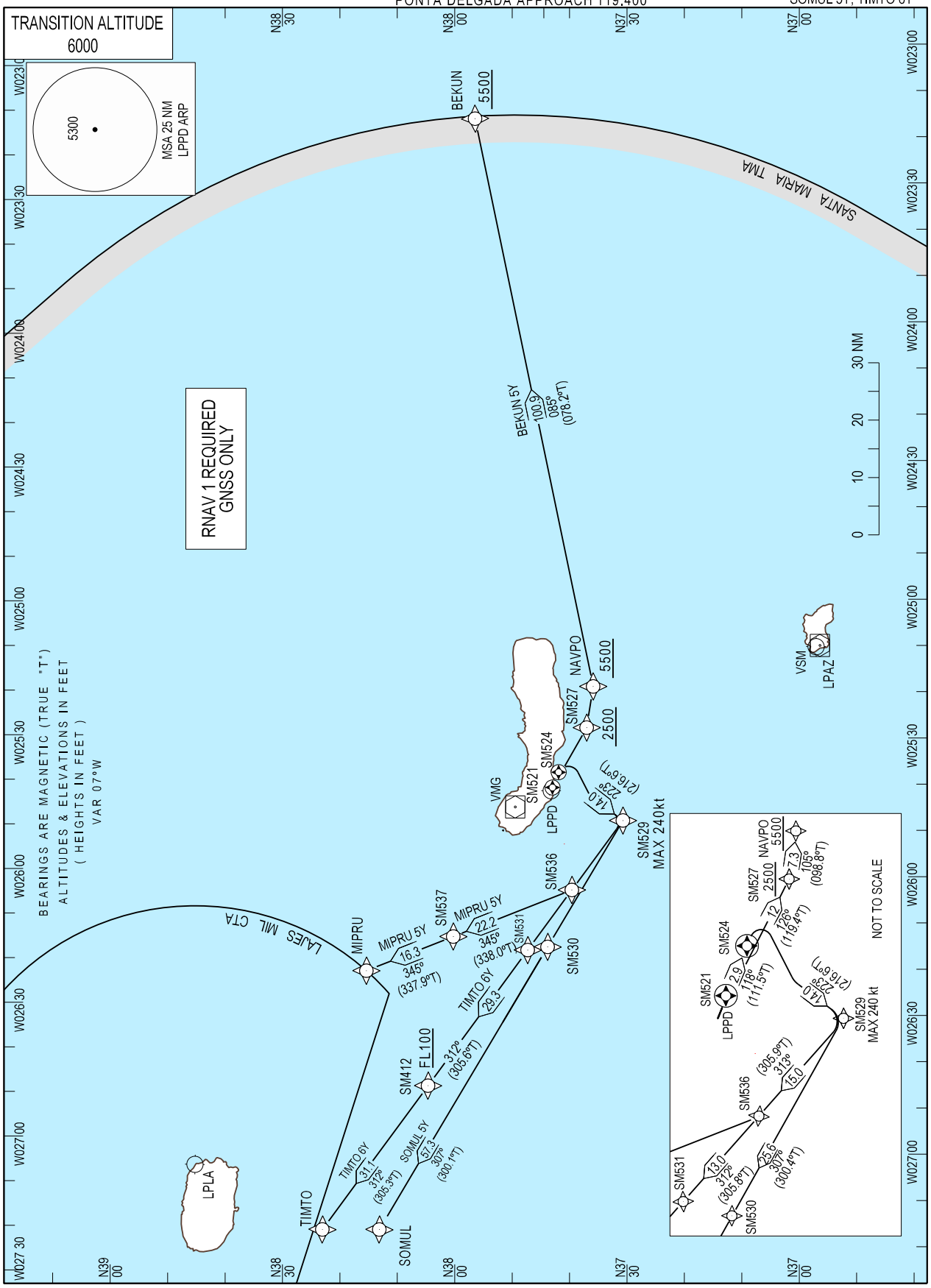
PONTA DELGADA, João Paulo II (LPPD)

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

PONTA DELGADA INFORMATION 123.900
PONTA DELGADA TOWER 118.300
PONTA DELGADA APPROACH 119.400

RNAV RWY 12
BEKUN 5Y, MIPRU 5Y
SOMUL 5Y, TIMTO 6Y



MSA Updated

SID Procedure Coding Table
Ponta Delgada SID RNAV 1 RWY 12 - BEKUN 5Y

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
BEKUN 5Y	Climb RWY heading to SM521. Turn right to SM527.Turn left to NAVPO - BEKUN.	-	Ponta Delgada APP FREQ 119.400 MHZ.	Cross NAVPO at or above 5500 FT, climbing.

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CF	SM521	YES	374418.01N 0254110.02W	119 (111.6)	-	-	-	-	RNAV 1	-
TF	SM527	-	373822.74N 0252800.56W	126 (119.4)	12.00	Right	+2500FT	-	RNAV 1	
TF	NAVPO	-	373716.0SN 0251858.94W	105 (098.8)	7.26	Left	+5500FT	-	RNAV 1	
TF	BEKUN	-	375653 77N 0231404.64W	085 (078.1)	100.94	Left	+5500FT	-	RNAV 1	

SID Procedure Coding Table
Ponta Delgada SID RNAV 1 RWY 12 - MIPRU 5Y

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
MIPRU 5Y	Climb RWY heading to SM521 - SM524. Turn right to SM529 and proceed via SM536 - SM537 - MIPRU.	-	Ponta Delgada APP FREQ 119.400 MHZ.	-

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CF	SM521	YES	374418.01N 0254110.02W	118 (111.6)	-	-	-	-	RNAV 1	-
TF	SM524	YES	374314.83N 0253748.68W	118 (111.5)	2.86	-	-	-	RNAV 1	
TF	SM529	-	373159.20N 0254818.32W	223 (216.6)	14.00	Right	-	240KT	RNAV 1	
TF	SM536	-	374046.75N 0260336.51W	313 (305.9)	15.00	Right	-	-	RNAV 1	
TF	SM537	-	380120.92N 02614072 9W	345 (338.0)	22.17	Right	-	-	RNAV 1	
TF	MIPRU	-	38162500N 0262153.43W	345 (337.9)	16.25	.	-	-	RNAV 1	

SID Procedure Coding Table
Ponta Delgada SID RNAV 1 RWY 12 - SOMUL 5Y

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
SOMUL 5Y	Climb RWY heading to SM521 - SM524. Turn right to SM529 and proceed via SM530 - SOMUL.	-	Ponta Delgada APP FREQ 119.400 MHZ.	-

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CF	SM521	YES	374418.01N 0254110.02W	118 (111.6)	-	-	-	-	RNAV 1	-
TF	SM524	YES	374314.83N 0253748.68W	118 (111.5)	2.86	-	-	-	RNAV 1	
TF	SM529	-	373159.20N 0254818.32W	223 (216.6)	14.00	Right	-	240 KT	RNAV 1	
TF	SM530	-	374453.62N 0261609.13W	307 (300.4)	25.60	Right	-	-	RNAV 1	
TF	SOMUL	-	381321.44N 0271900.99W	307 (300.1)	57.26	-	-	-	RNAV 1	

SID Procedure Coding Table
Ponta Delgada SID RNAV 1 RWY 12 - TIMTO 6Y

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
TIMTO 6Y	Climb RWY heading to SM521 - SM524. Turn right to SM529 and proceed via SM536 - SM531 - SM412 - TIMTO.	-	Ponta Delgada APP FREQ 119.400 MHZ.	-

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CF	SM521	YES	374418.01N 0254110.02W	118 (111.6)	-	-	-	-	RNAV 1	-
TF	SM524	YES	374314.83N 0253748.68W	118 (111.5)	2.86	-	-	-	RNAV 1	
TF	SM529	-	373159.20N 0254818.32W	223 (216.6)	14.00	Right	-	240 KT	RNAV 1	
TF	SM536	-	374046.75N 0260336.51W	313 (305.9)	15.00	Right	-	-	RNAV 1	
TF	SM531	-	374821.57N 0261653.85W	312 (305.8)	12.98	-	-	-	RNAV 1	
TF	SM412	-	380522.57N 0264703.56W	312 (305.6)	29.29	-	+FL100	-	RNAV 1	
TF	TIMTO	-	382316.27N 0271917.12W	312 (305.3)	31.05	-	-	-	RNAV 1	

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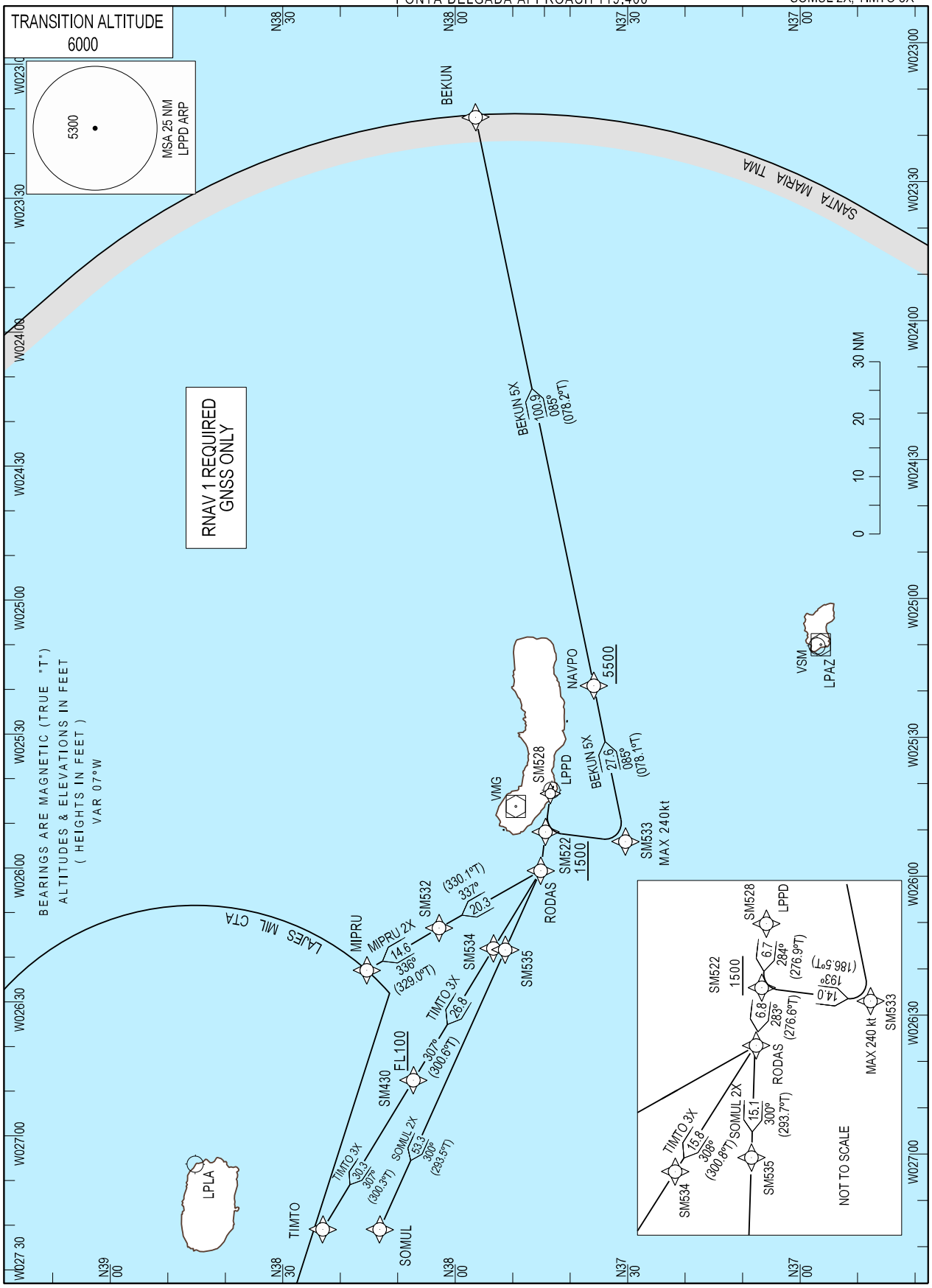
PONTA DELGADA, João Paulo II (LPPD)
RNAV RWY 30
BEKUN 5X, MIPRU 2X
SOMUL 2X, TIMTO 3X

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

PONTA DELGADA INFORMATION 123.900
PONTA DELGADA TOWER 118.300
PONTA DELGADA APPROACH 119.400



MSA Updated

SID Procedure Coding Table
Ponta Delgada SID RNAV 1 RWY 30 - BEKUN 5X

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
BEKUN 5X	After take-off proceed to SM528.Turn left to SM522 - SM533 - NAVPO - BEKUN.	-	Ponta Delgada APP FREQ 119.400 MHZ.	Cross NAVPO at or above 5500FT.

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CF	SM528	-	374445.80N 0254238.24W	298 (291.6)	-	-	-	-	RNAV 1	-
TF	SM522	-	374533.89N 0255102.25W	284 (276.9)	6.70	Left	+1500FT	-	RNAV 1	
TF	SM533	-	373138.29N 0255301.73W	193 (186.5)	14.00	Left	-	240 KT	RNAV 1	
TF	NAVPO	-	373716.0SN 0251858.94W	085 (078.1)	27.64	Left	+5500FT	-	RNAV 1	
TF	BEKUN	-	375653.77N 0231404.64W	085 (078.2)	100.94	-	-	-	RNAV 1	

SID Procedure Coding Table
Ponta Delgada SID RNAV 1 RWY 30 - MIPRU 2X

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
MIPRU 2X	After take-off proceed to SM528. Turn left to SM522 - RODAS - SM532 - MIPRU.	-	Ponta Delgada APP FREQ 119.400 MHZ.	-

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CF	SM528	-	374445.80N 0254238.24W	298 (291.6)	-	-	-	-	RNAV 1	-
TF	SM522	-	374533.89N 0255102.25W	284 (276.9)	6.70	Left	-	-	RNAV 1	
TF	RODAS	-	374620.54N 0255934.24W	283 (276.6)	6.81	-	-	-	RNAV 1	
TF	SM532	-	380355.68N 0261222.15W	337 (330.1)	20.28	Right	-	-	RNAV 1	
TF	MIPRU	-	381625.00N 0262153.43W	336 (329.0)	14.56	-	-	-	RNAV 1	

SID Procedure Coding Table
Ponta Delgada SID RNAV 1 RWY 30 - SOMUL 2X

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
SOMUL 2X	After take-off proceed to SM528. Turn left to SM522- RODAS - SM535 - SOMUL.	-	Ponta Delgada APP FREQ 119.400 MHZ.	-

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CF	SM528	-	374445.80N 0254238.24W	298 (291.6)	-	-	-	-	RNAV 1	-
TF	SM522	-	374533.89N 0255102.25W	284 (276.9)	6.70	Left	-	-	RNAV 1	
TF	RODAS	-	374620.54N 255934.24W	283 (276.6)	6.81	-	-	-	RNAV 1	
TF	SM535	-	375222.28N 0261659.50W	300 (293.7)	15.06	Right	-	-	RNAV 1	
TF	SOMUL	-	381321.44N 0271900.99W	300 (293.5)	53.29	-	-	-	RNAV 1	

SID Procedure Coding Table
Ponta Delgada SID RNAV 1 RWY 30 - TIMTO 3X

Designator	Route	After Take-off		Remarks
		Climb to ALT/FL	Contact	
TIMTO 3X	After take-off proceed to SM528.Turn left to SM522 - RODAS- SM534 - SM430 - TIMTO.	-	Ponta Delgada APP FREQ 119.400 MHZ.	-

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
CF	SM528	-	374445.80N 0254238.24W	298 (291.6)	-	-	-	-	RNAV 1	-
TF	SM522	-	374533.89N 0255102.25W	284 (276.9)	6.70	Left	-	-	RNAV 1	
TF	RODAS	-	374620.54N 0255934.24W	283 (276.6)	6.81	-	-	-	RNAV 1	
TF	SM534	-	375425.10N 0261643.51W	308 (300.8)	15.80	Right	-	-	RNAV 1	
TF	SM430	-	380801.45N 0264558.41W	307 (300.6)	26.81	-	+FL100	-	RNAV 1	
SM430	TIMTO	-	382316.27N 0271917.12W	307 (300.3)	30.33	-	-	-	RNAV 1	

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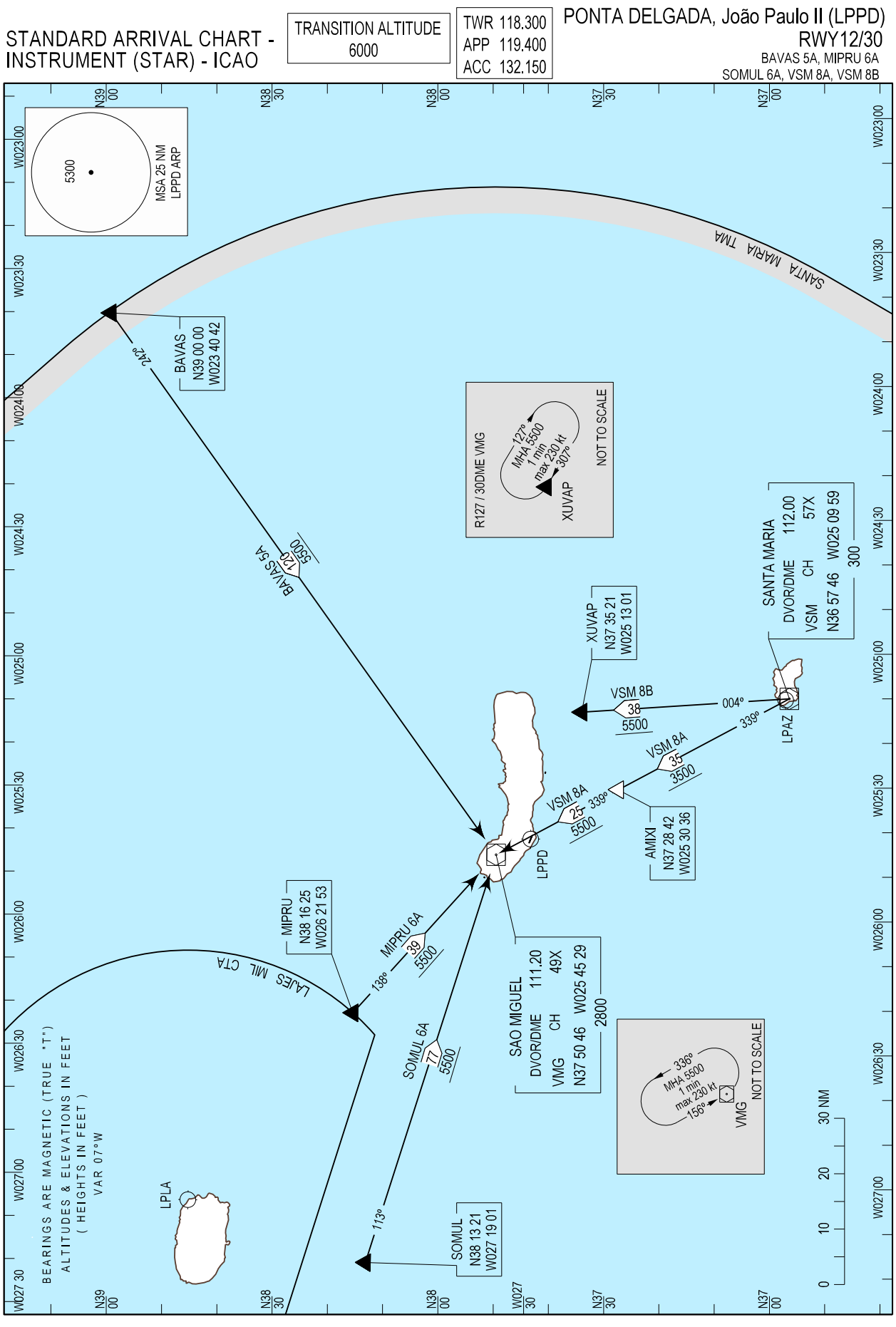

MSA Updated

STANDARD INSTRUMENT ARRIVAL (STAR) RWY 12/30

RUNWAY 10-28					
Designator	Identification Significant Points	MAG Track	DIST NM	Minimum safe ALT (FT)	Remarks
BAVAS 5A	▲ BAVAS ▲ VMG	242	120	5500	Note: Clearance limit VMG holding.
MIPRU 6A	▲ MIPRU ▲ VMG	138	39	5500	
SOMUL 6A	▲ SOMUL ▲ VMG	113	77	5500	
VSM 8A	▲ VSM Δ AMIXI ▲ VMG	339 339	35 25	3500 5500	
VSM 8B	▲ VSM ▲ XUVAP	004	38	5500	Note 1: Clearance limit XUVAP holding. Note 2: Alternative to VSM 7A.

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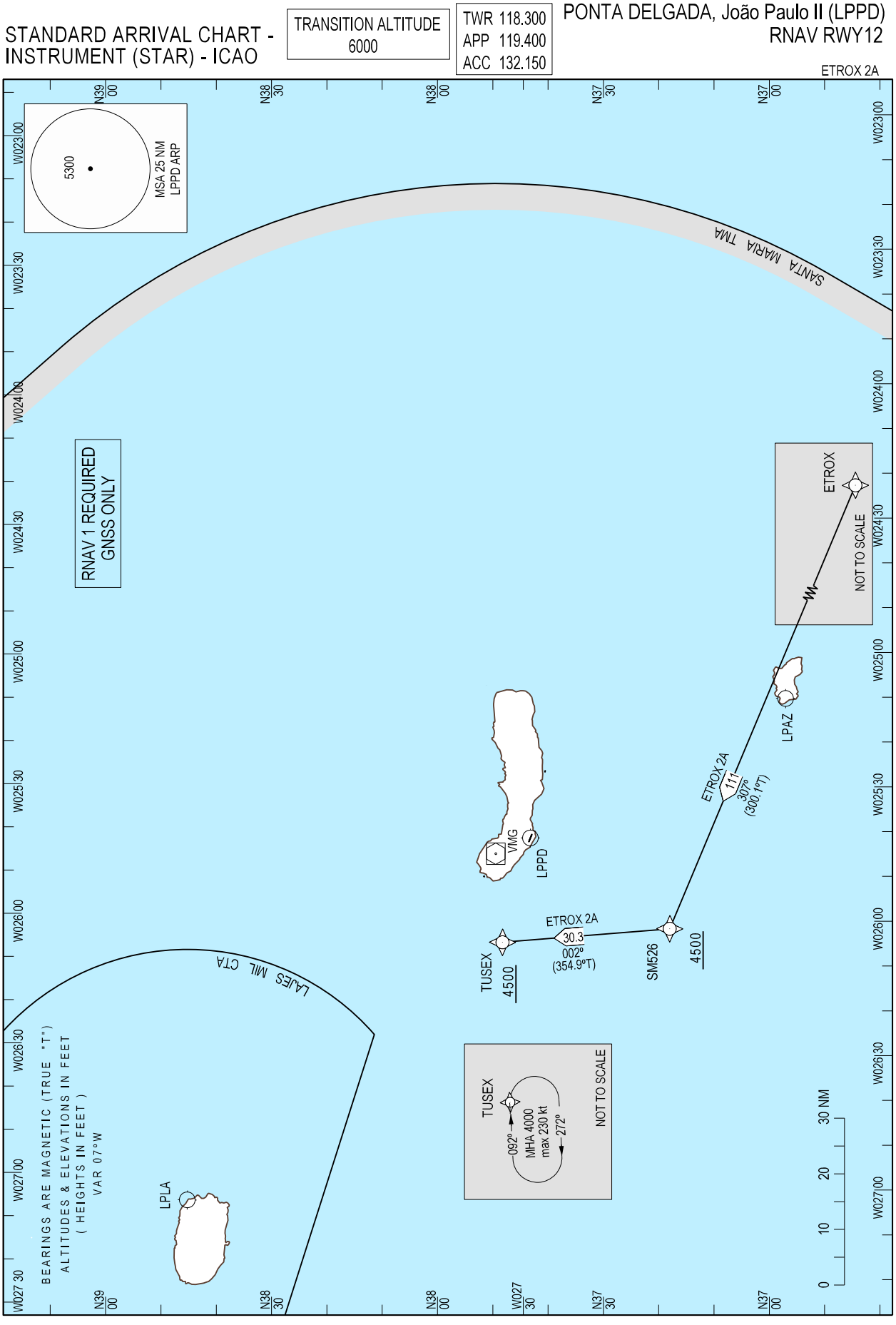

MSA Updated

Procedure Coding Table
STAR RNAV 1 ETROX 2A

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	ETROX	-	362409.22N 0240128.49W	-	-	-	+4500FT	-	RNAV 1	Clearance limit: Holding TUSEX.
TF	SM526	-	371911.58N 0260209.33W	307 (300.1)	111.35	-	+4500FT	-	RNAV 1	
TF	TUSEX	-	374925.22N 0260534. 76W	002 (354.9)	30.31	Right	+4500FT	-	RNAV 1	

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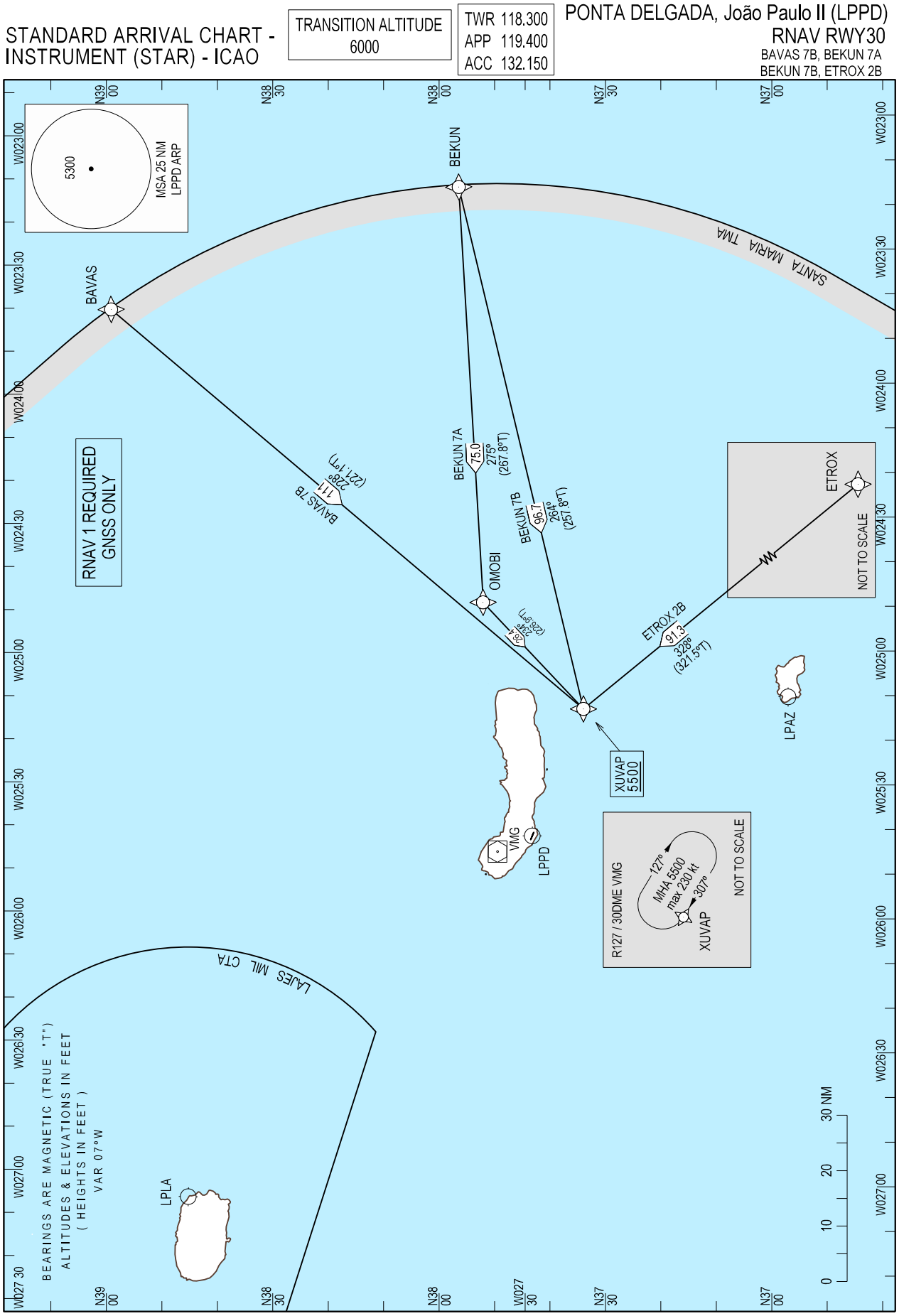

MSA Updated

Ponta Delgada STAR RNAV RWY 30
Procedure Coding Table
STAR RNAV 1 BAVAS 7B

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	BAVAS	-	390000.00N 0234042.07W	-	-	-	+5500FT	-	RNAV 1	Clearance limit: Holding XUVAP.
TF	XUVAP	-	373521.17N 0251300 .95W	228 (221.1)	111.49	-	+5500FT	-	RNAV 1	

Procedure Coding Table
STAR RNAV 1 BEKUN 7A

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	BEKUN	-	375653.77N 0231404.64W	-	-	-	+5500FT	-	RNAV 1	Clearance limit: Holding XUVAP.
TF	OMOBI	-	375326.46N 0244845.58W	275 (267.8)	75.00		+5500FT	-	RNAV 1	
TF	XUVAP	-	373521.17N 0251300 .95W	234 (226.9)	26.39	Left	+5500FT	-	RNAV 1	

Procedure Coding Table
STAR RNAV 1 BEKUN 7B

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	BEKUN	-	375653.77N 0231404.64W	-	-	-	+5500FT	-	RNAV 1	Clearance limit: Holding XUVAP.
TF	XUVAP	-	373521.17N 0251300 .95W	264 (257.8)	96.73	-	+5500FT	-	RNAV 1	

Procedure Coding Table
STAR RNAV 1 ETROX 2B

Path Terminator	Waypoint			Course/ Track MAG (True)	Dist. NM	Turn Direction	Constraints		Navigation Specification	Remarks
	Identifier	Flyover	Coordinates				Level	Speed		
IF	ETROX	-	362409.22N 0240128.49W	-	-	-	+5500FT	-	RNAV 1	Clearance limit: Holding XUVAP.
TF	XUVAP	-	373521.17N 0251300 .95W	328 (321.5)	91.33	-	+5500FT	-	RNAV 1	

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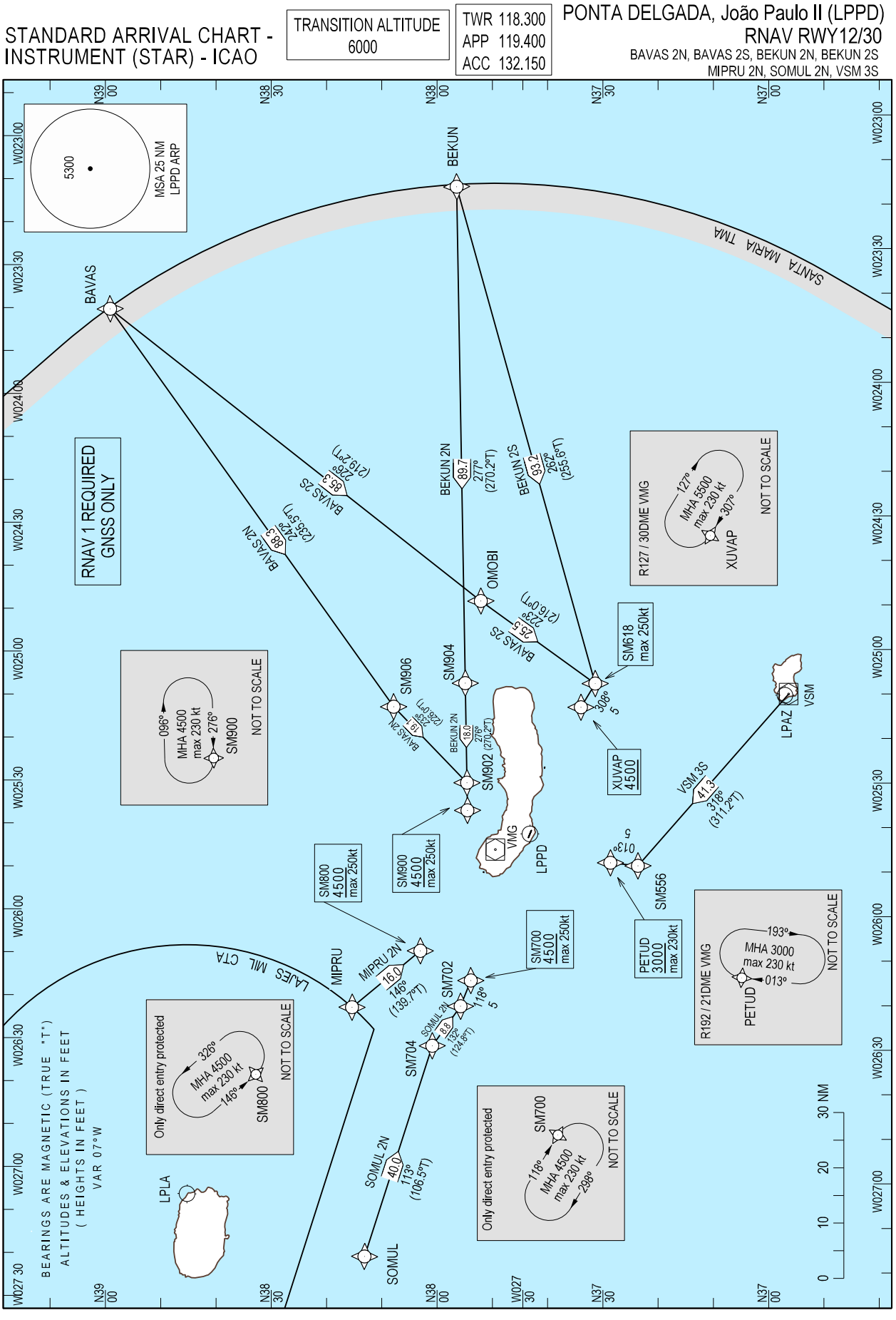

MSA Updated

STAR Procedure Coding Table
RNAV 1 - GNSS ONLY
PONTA DELGADA STAR RNAV1 BEKUN 2N

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specificatin
	Identifier	Flyover	Coordinates				Level	Speed	
IF	BEKUN	-	375654.00N 0231405.00W	-	-	-	-	-	RNAV 1
TF	SM904	-	375617.68N 0250731.26W	277 (270.2)	89.73	-	-	-	RNAV 1
TF	SM902	-	375557.23N 0253016.17W	276 (269.0)	18.00	-	-	-	RNAV 1
TF	SM900	-	375550.77N 0253635.27W	276 (268.8)	5.00	-	+4500FT	250KT	RNAV 1

PONTA DELGADA STAR RNAV1 BAVAS 2N

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specificatin
	Identifier	Flyover	Coordinates				Level	Speed	
IF	BAVAS	-	390000.00N 0234042.00W	-	-	-	-	-	RNAV 1
TF	SM906	-	380915.50N 0251255.33W	242 (235.5)	88.31	-	-	-	RNAV 1
TF	SM902	-	375557.23N 0253016.17W	233 (226.0)	19.09	Left	-	-	RNAV 1
TF	SM900	-	375550.77N 0253635.27W	276 (268.8)	5.00	Right	+4500FT	250KT	RNAV 1

PONTA DELGADA STAR RNAV1 MIPRU 2N

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specificatin
	Identifier	Flyover	Coordinates				Level	Speed	
IF	MIPRU	-	381625.00N 0262153.00W	-	-	-	-	-	RNAV 1
TF	SM800	-	380411.09N 0260847.05W	146 (139.7)	16.00	-	+4500FT	250KT	RNAV 1

PONTA DELGADA STAR RNAV1 SOMUL 2N

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specificatin
	Identifier	Flyover	Coordinates				Level	Speed	
IF	SOMUL	-	381321.00N 0271901.00W	-	-	-	-	-	RNAV 1
TF	SM704	-	380148.57N 0263028.49W	113 (106.5)	40.00	-	-	-	RNAV 1
TF	SM702		375647.29N 0262121.36W	132 (124.8)	8.78	Right	-	-	RNAV 1
TF	SM700	-	375459.80N 0261527.28W	118 (110.9)	5.00	Left	+4500FT	250KT	RNAV 1

PONTA DELGADA STAR RNAV1 BEKUN 2S

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specificatin
	Identifier	Flyover	Coordinates				Level	Speed	
IF	BEKUN	-	375654.00N 0231405.00W	-	-	-	-	-	RNAV 1
TF	SM618	-	373246.35N 0250737.60W	262 (255.6)	93.22	-	-	250KT	RNAV 1
TF	XUVAP	-	373521.17N 0251300.95W	308 (301.1)	5.00	Right	+4500FT	-	RNAV 1

PONTA DELGADA STAR RNAV1 BAVAS 2S

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specificatin
	Identifier	Flyover	Coordinates				Level	Speed	
IF	BAVAS	-	390000.00N 0234042.00W	-	-	-	-	-	RNAV 1
TF	OMOBI	-	375326.00N 0244846.00W	226 (219.2)	85.33	-	-	-	RNAV 1
TF	SM618	-	373246.35N 0250737.60W	223 (216.0)	25.50	-	-	250KT	RNAV 1
TF	XUVAP	-	373521.17N 0251300.95W	308 (301.1)	5.00	Right	+4500FT	-	RNAV 1

PONTA DELGADA STAR RNAV1 VSM 3S

Path Terminator	Waypoint			Course/Track MAG (True)	Dist NM	Turn Direction	Constraints		Navigation Specificatin
	Identifier	Flyover	Coordinates				Level	Speed	
IF	VSM	-	365746.50N 0250959.00W	-	-	-	-	-	RNAV 1
TF	SM556	-	372456.08N 0254859.26W	318 (311.2)	41.32	-	-	-	RNAV 1
TF	PETUD	-	372954.80N 0254819.90W	013 (006.0)	5.00	Right	+3000FT	230KT	RNAV 1

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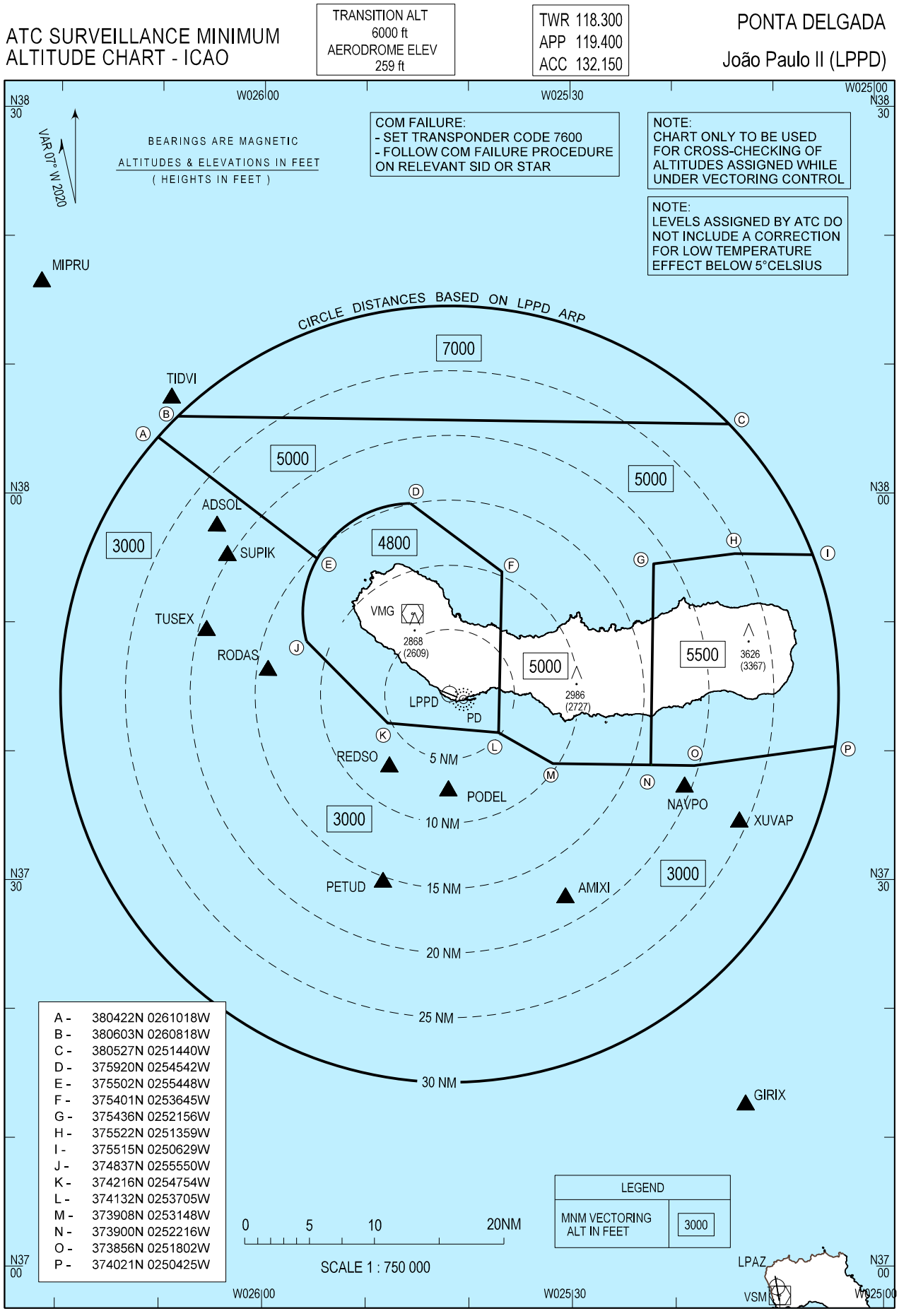

Chart updated.

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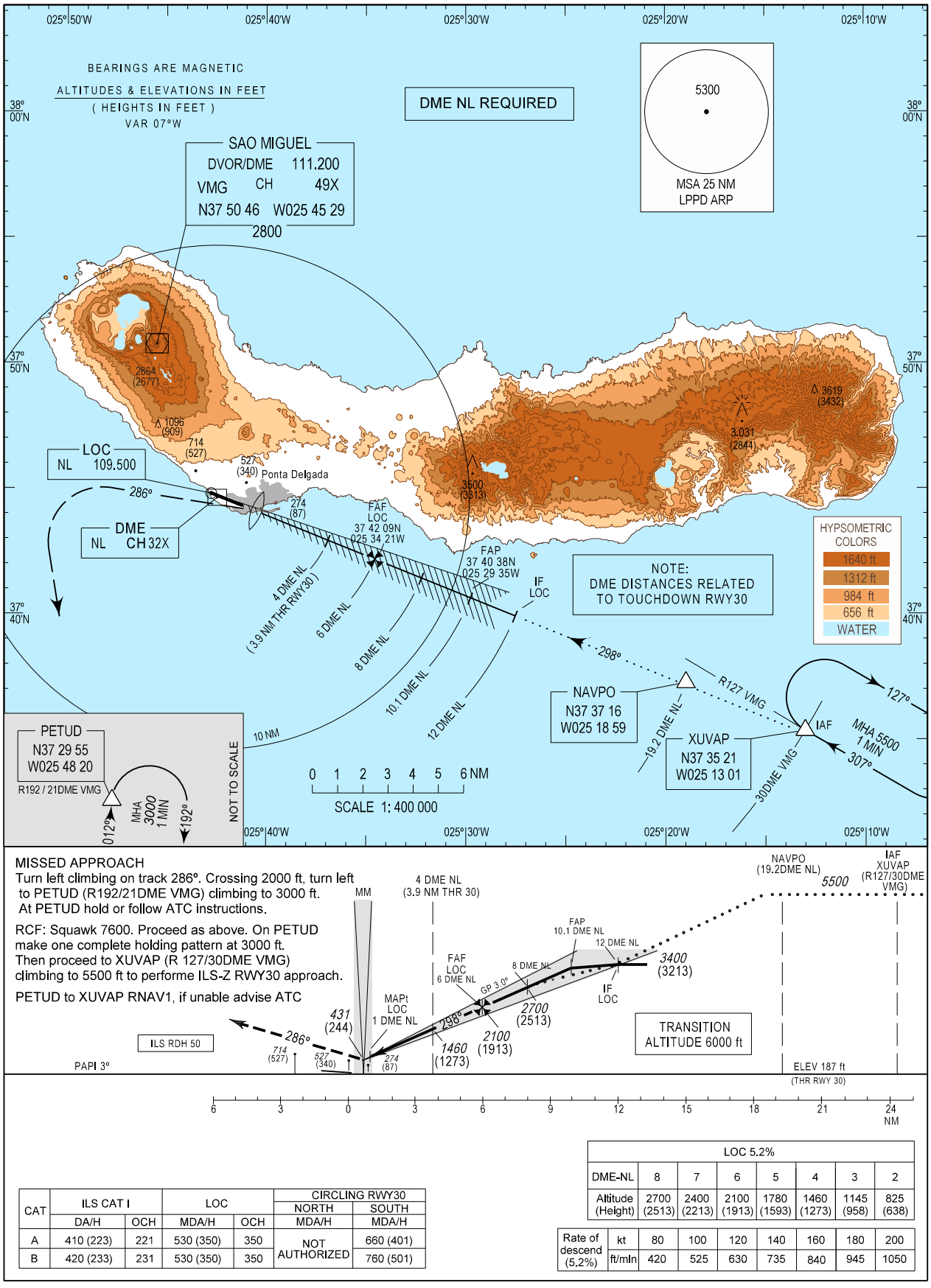
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 30 - ELEV 187 ft

ATIS 123.900
APP 119.400
TWR 118.300

PONTA DELGADA, João Paulo II (LPPD)

ILS-Z or LOC
RWY 30
CAT A-B



MISSED APPROACH
Turn left climbing on track 286°. Crossing 2000 ft, turn left to PETUD (R192/21DME VMG) climbing to 3000 ft. At PETUD hold or follow ATC instructions.

RCF: Squawk 7600. Proceed as above. On PETUD make one complete holding pattern at 3000 ft. Then proceed to XUVAP (R 127/30DME VMG) climbing to 5500 ft to performe ILS-Z RWY30 approach.

PETUD to XUVAP RNAV1, if unable advise ATC

CAT	ILS CAT I		LOC		CIRCLING RWY30	
					NORTH	SOUTH
	DA/H	OCH	MDA/H	OCH	MDA/H	MDA/H
A	410 (223)	221	530 (350)	350	NOT AUTHORIZED	660 (401)
B	420 (233)	231	530 (350)	350		760 (501)

LOC 5.2%							
DME-NL	8	7	6	5	4	3	2
Altitude (Height)	2700 (2513)	2400 (2213)	2100 (1913)	1780 (1593)	1460 (1273)	1145 (958)	825 (638)

Rate of descend (5.2%)	kt	80	100	120	140	160	180	200
	ft/mIn	420	525	630	735	840	945	1050

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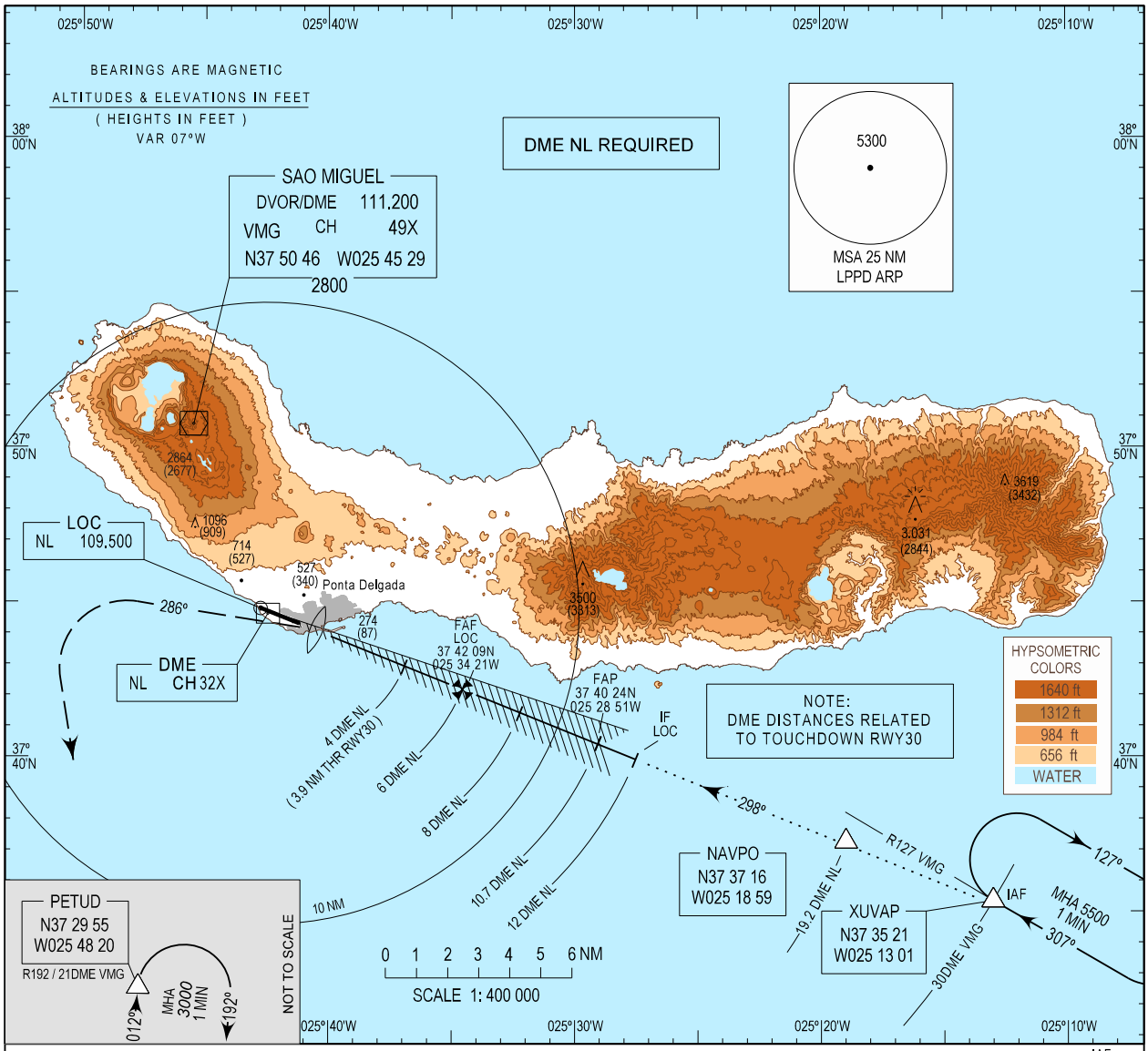
INSTRUMENT APPROACH CHART - ICAO

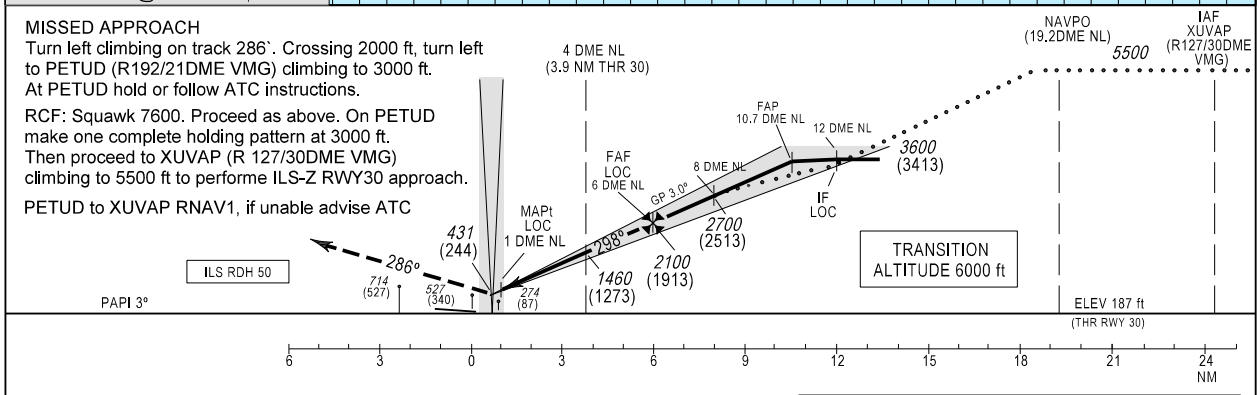
AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 30 - ELEV 187 ft

ATIS 123.900
APP 119.400
TWR 118.300

PONTA DELGADA, João Paulo II (LPPD)

ILS-Z or LOC
RWY 30
CAT C-D





CAT	ILS CAT I		LOC		CIRCLING RWY30	
					NORTH	SOUTH
	DA/H	OCH	MDA/H	OCH	MDA/H	MDA/H
C	430 (243)	241	530 (350)	350	NOT AUTHORIZED	850 (591)
D	440 (253)	251	530 (350)	350		950 (691)

LOC 5.2%							
DME-NL	8	7	6	5	4	3	2
Altitude (Height)	2700 (2513)	2400 (2213)	2100 (1913)	1780 (1593)	1460 (1273)	1145 (958)	825 (638)

Rate of descend (5.2%)	kt	100	120	140	160	180	200	220
	ft/min	525	630	735	840	945	1050	1160

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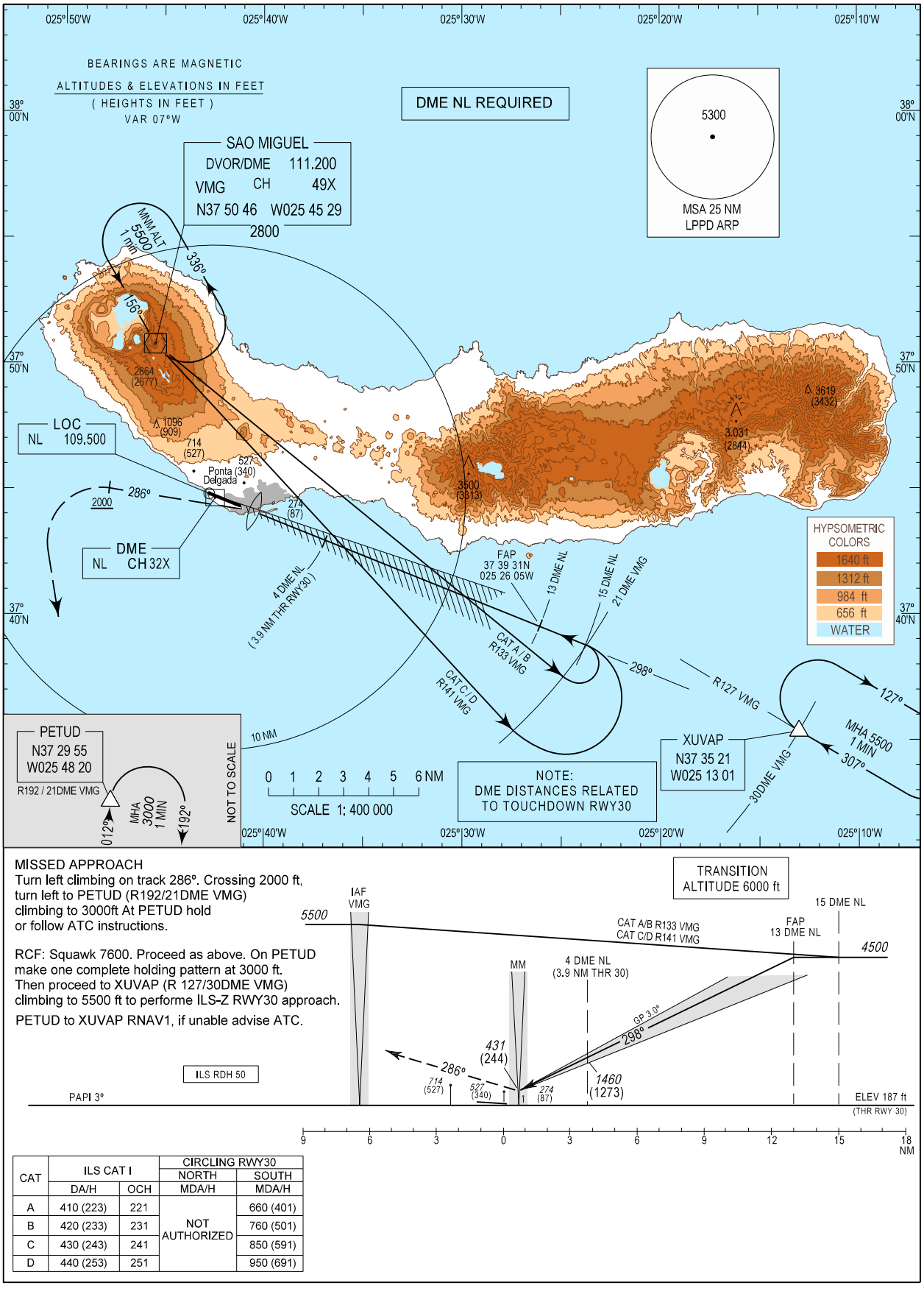
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 30 - ELEV 187 ft

ATIS 123.900
APP 119.400
TWR 118.300

PONTA DELGADA, João Paulo II (LPPD)

ILS-Y
RWY 30



MISSED APPROACH
Turn left climbing on track 286°. Crossing 2000 ft, turn left to PETUD (R192/21DME VMG) climbing to 3000ft At PETUD hold or follow ATC instructions.

RCF: Squawk 7600. Proceed as above. On PETUD make one complete holding pattern at 3000 ft. Then proceed to XUVAP (R 127/30DME VMG) climbing to 5500 ft to performe ILS-Z RWY30 approach.

PETUD to XUVAP RNAV1, if unable advise ATC.

TRANSITION ALTITUDE 6000 ft

CAT	ILS CAT I		CIRCLING RWY30	
			NORTH	SOUTH
	DA/H	OCH	MDA/H	MDA/H
A	410 (223)	221	NOT AUTHORIZED	660 (401)
B	420 (233)	231		760 (501)
C	430 (243)	241		850 (591)
D	440 (253)	251		950 (691)

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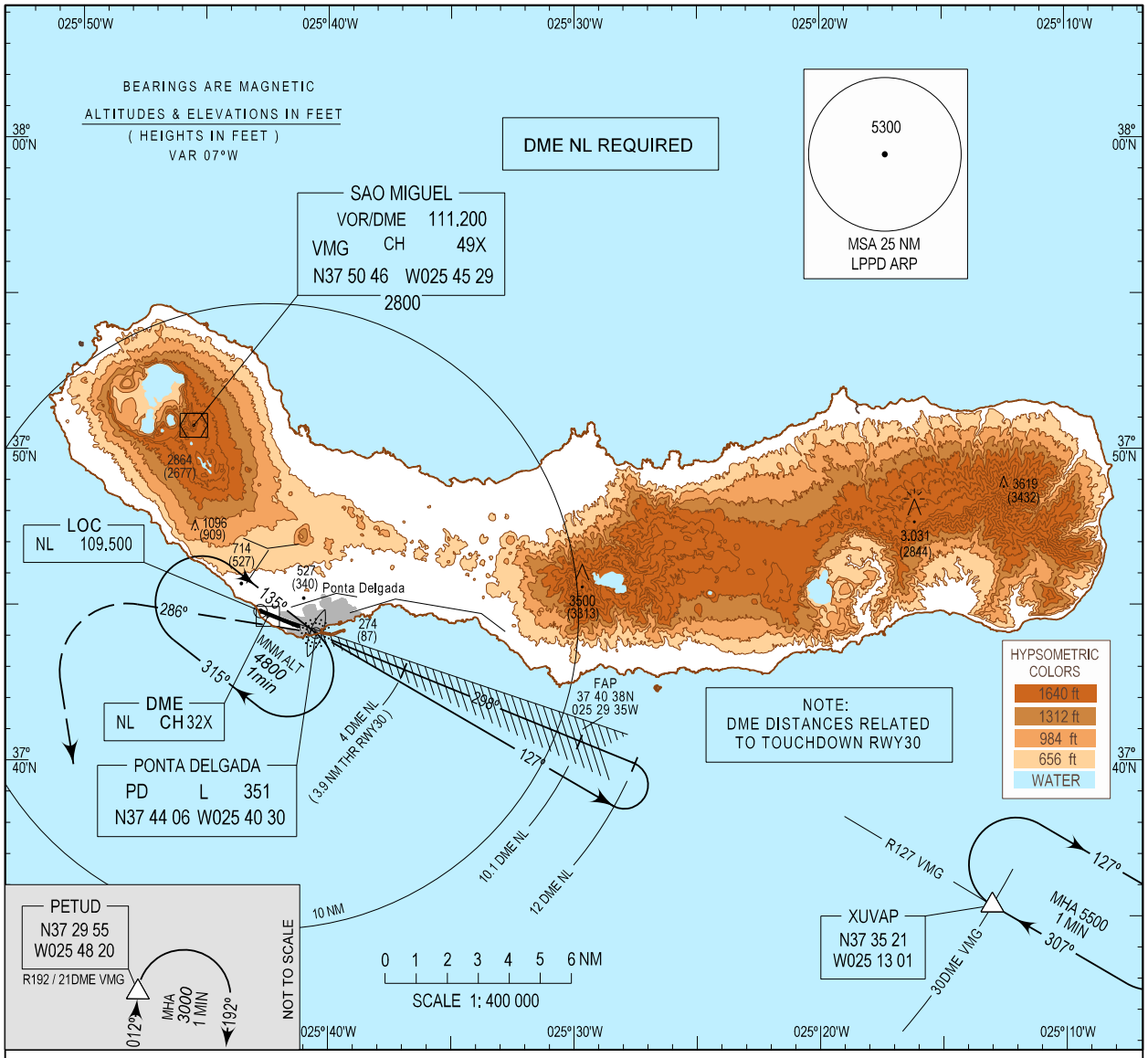
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 30 - ELEV 187 ft

ATIS 123.900
APP 119.400
TWR 118.300

PONTA DELGADA, João Paulo II (LPPD)

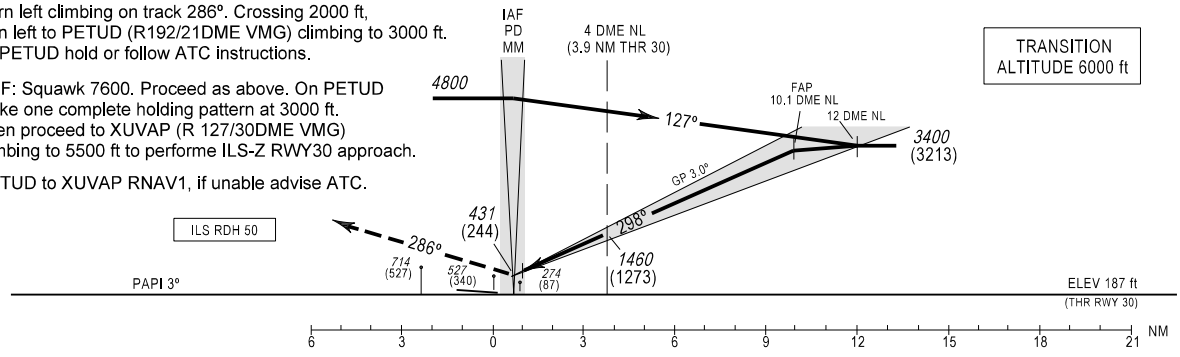
ILS-X
RWY 30
CAT A - B



MISSED APPROACH
Turn left climbing on track 286°. Crossing 2000 ft, turn left to PETUD (R192/21DME VMG) climbing to 3000 ft. At PETUD hold or follow ATC instructions.

RCF: Squawk 7600. Proceed as above. On PETUD make one complete holding pattern at 3000 ft. Then proceed to XUVAP (R 127/30DME VMG) climbing to 5500 ft to performe ILS-Z RWY30 approach.

PETUD to XUVAP RNAV1, if unable advise ATC.



TRANSITION ALTITUDE 6000 ft

CAT	ILS CAT I		CIRCLING RWY30	
			NORTH	SOUTH
	DA/H	OCH	MDA/H	MDA/H
A	410 (223)	221	NOT AUTHORIZED	660 (401)
B	420 (233)	231		760 (501)

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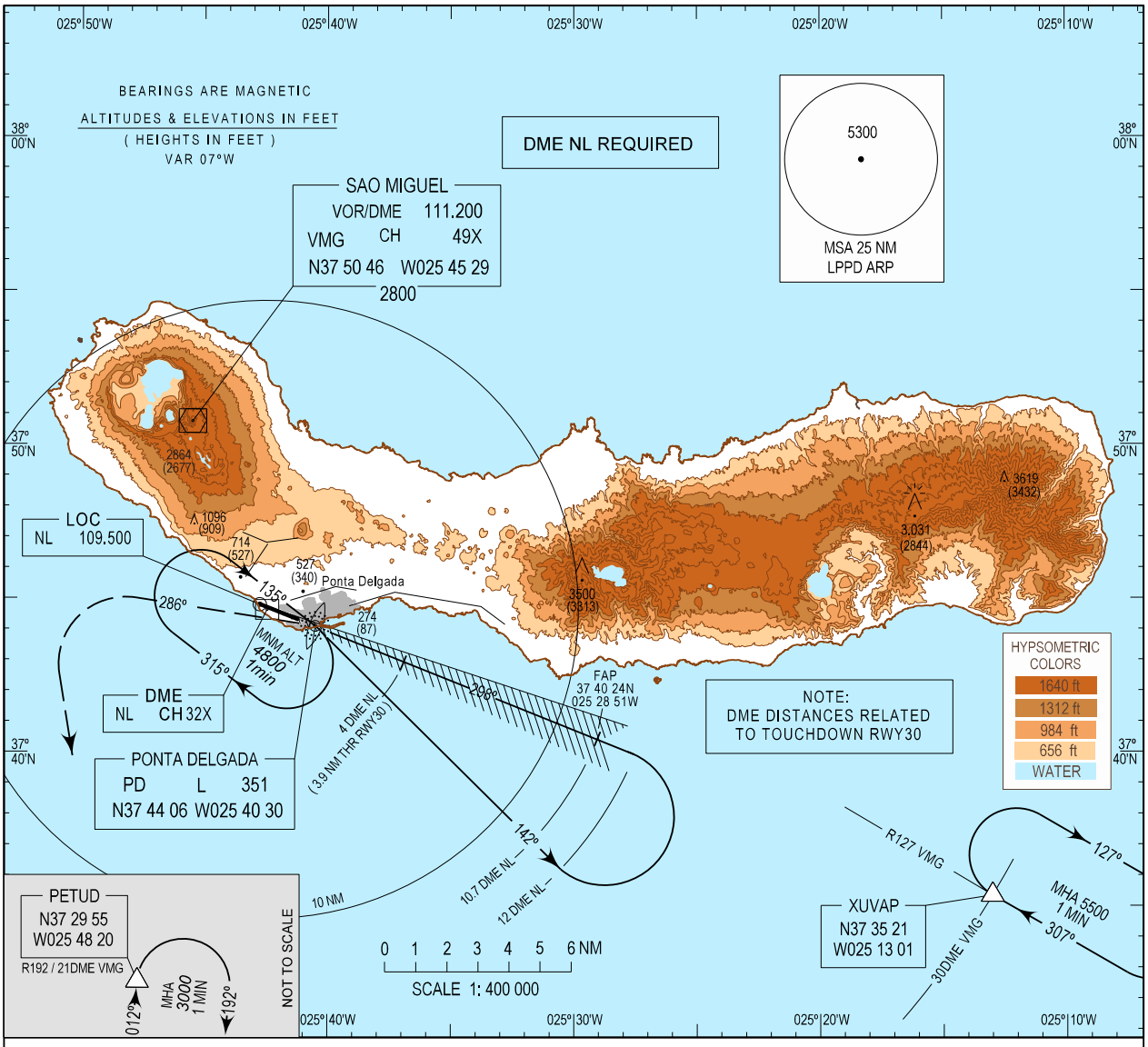
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 30 - ELEV 187 ft

ATIS 123.900
APP 119.400
TWR 118.300

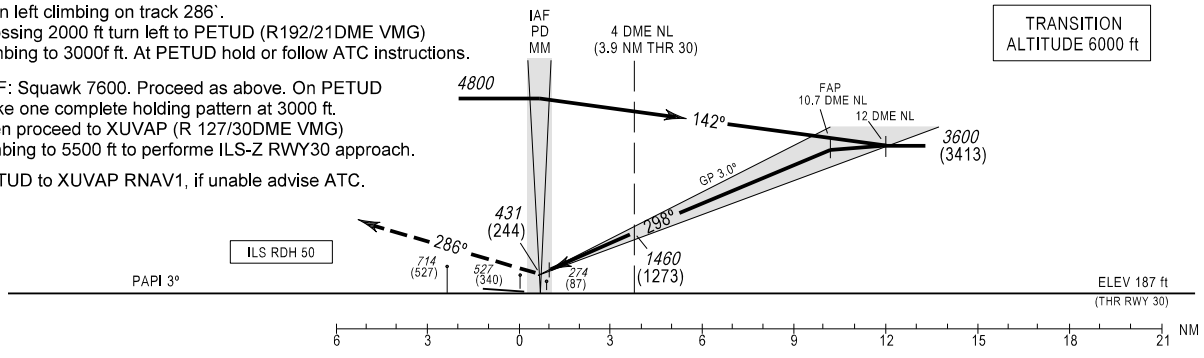
PONTA DELGADA, João Paulo II (LPPD)
ILS-X
RWY 30
CAT C - D



MISSED APPROACH
Turn left climbing on track 286`.
Crossing 2000 ft turn left to PETUD (R192/21DME VMG)
climbing to 3000f ft. At PETUD hold or follow ATC instructions.

RCF: Squawk 7600. Proceed as above. On PETUD
make one complete holding pattern at 3000 ft.
Then proceed to XUVAP (R 127/30DME VMG)
climbing to 5500 ft to performe ILS-Z RWY30 approach.

PETUD to XUVAP RNAV1, if unable advise ATC.



CAT	ILS CAT I		CIRCLING RWY30	
			NORTH	SOUTH
	DA/H	OCH	MDA/H	MDA/H
C	430 (243)	241	NOT AUTHORIZED	850 (591)
D	440 (253)	251		950 (691)

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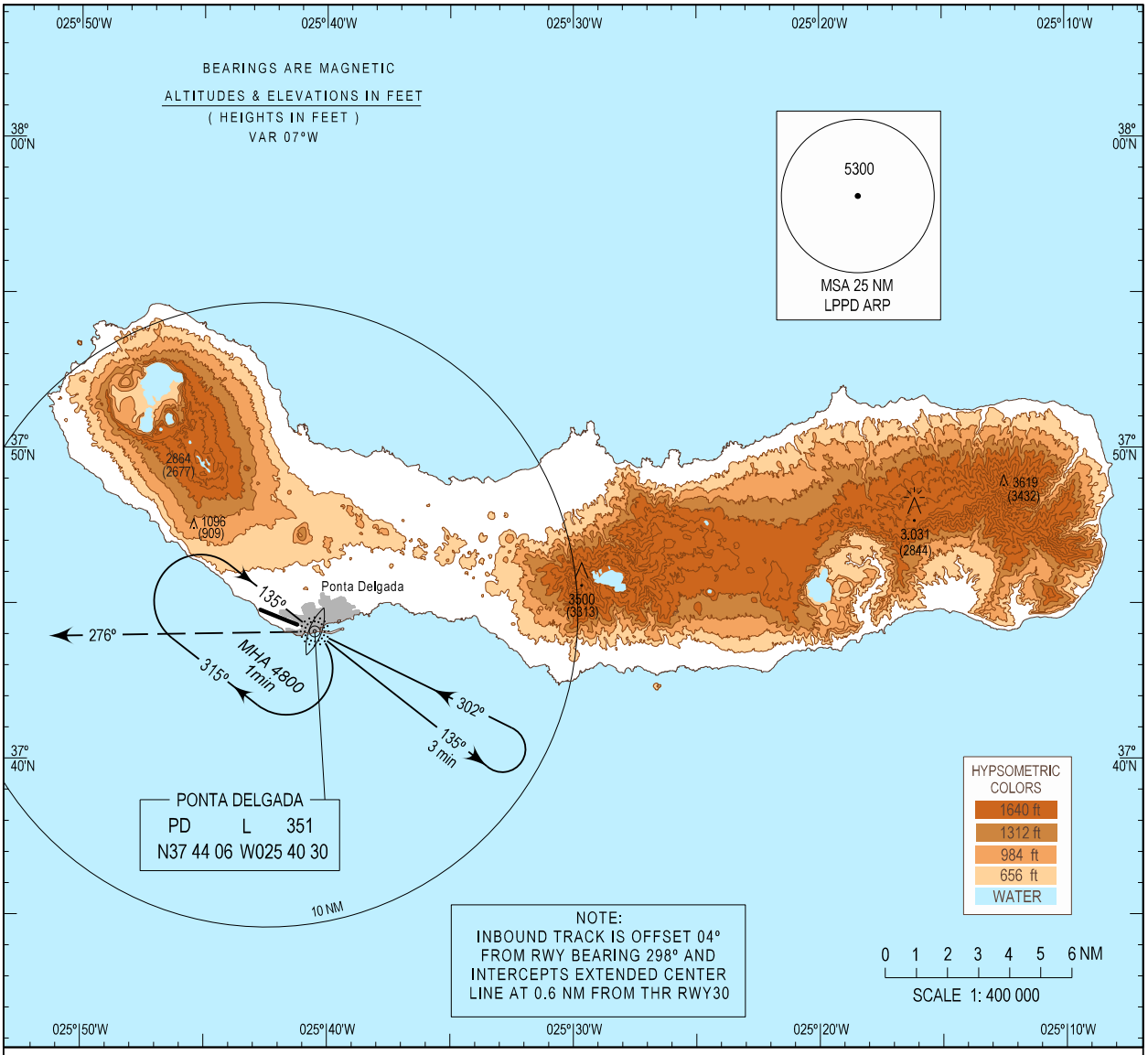
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 30 - ELEV 187 ft

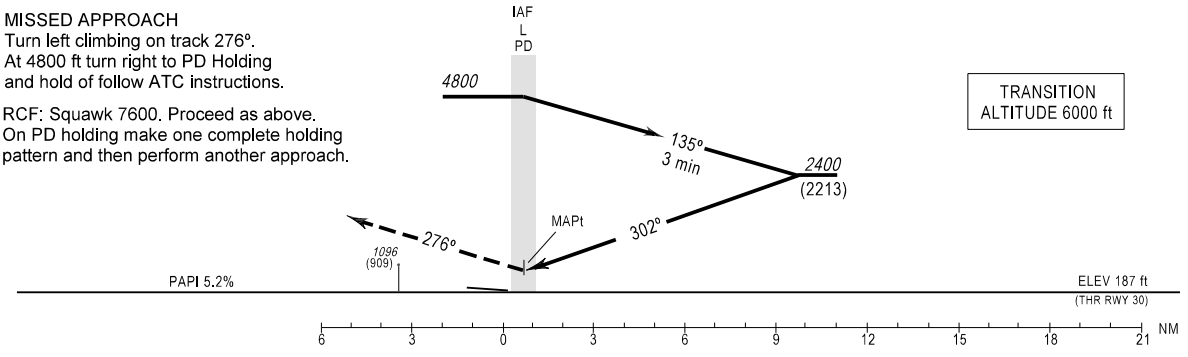
ATIS 123.900
APP 119.400
TWR 118.300

PONTA DELGADA, João Paulo II (LPPD)
LOCATOR
RWY 30
CAT A-B



MISSED APPROACH
Turn left climbing on track 276°.
At 4800 ft turn right to PD Holding
and hold of follow ATC instructions.

RCF: Squawk 7600. Proceed as above.
On PD holding make one complete holding
pattern and then perform another approach.



TRANSITION ALTITUDE 6000 ft

CAT	STRAIGHT-IN		CIRCLING RWY30	
			NORTH	SOUTH
	DA/H	OCH	MDA/H	MDA/H
A	700 (513)	513	NOT AUTHORIZED	700 (441)
B	720 (533)	533		760 (501)

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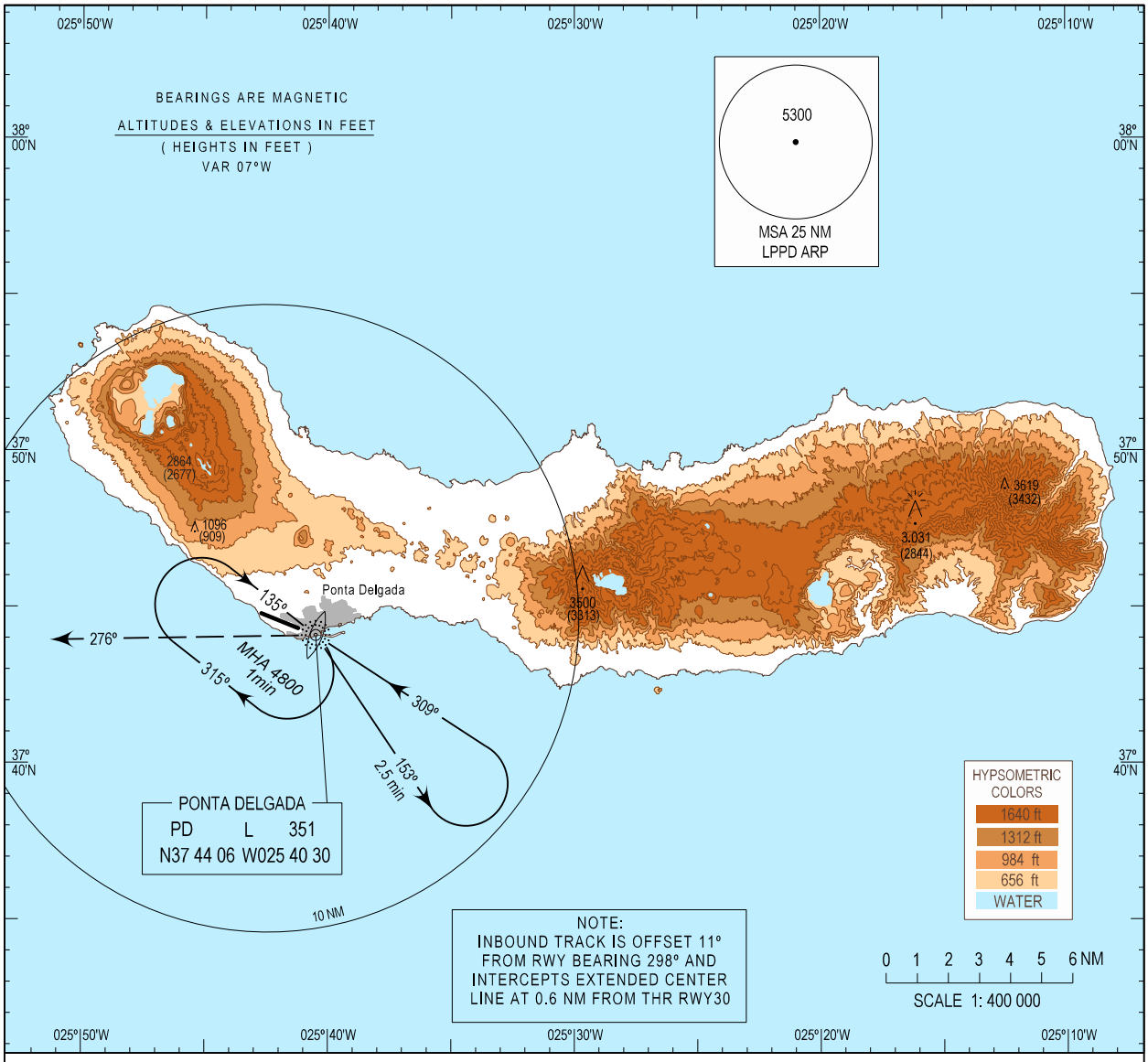
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 30 - ELEV 187 ft

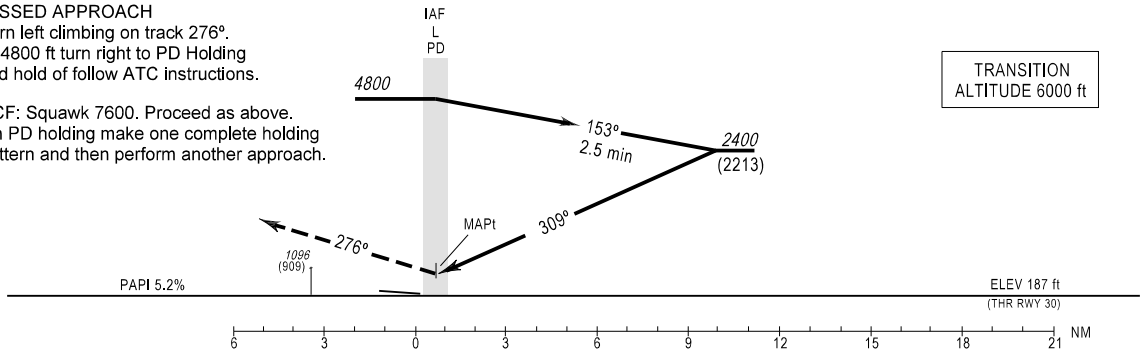
ATIS 123.900
APP 119.400
TWR 118.300

PONTA DELGADA, João Paulo II (LPPD)
LOCATOR
RWY 30
CAT C-D



MISSED APPROACH
Turn left climbing on track 276°.
At 4800 ft turn right to PD Holding
and hold of follow ATC instructions.

RCF: Squawk 7600. Proceed as above.
On PD holding make one complete holding
pattern and then perform another approach.



TRANSITION
ALTITUDE 6000 ft

CAT	STRAIGHT-IN		CIRCLING RWY30	
			NORTH	SOUTH
	DA/H	OCH	MDA/H	MDA/H
C	760 (573)	573	NOT AUTHORIZED	850 (591)
D	760 (573)	573		950 (691)

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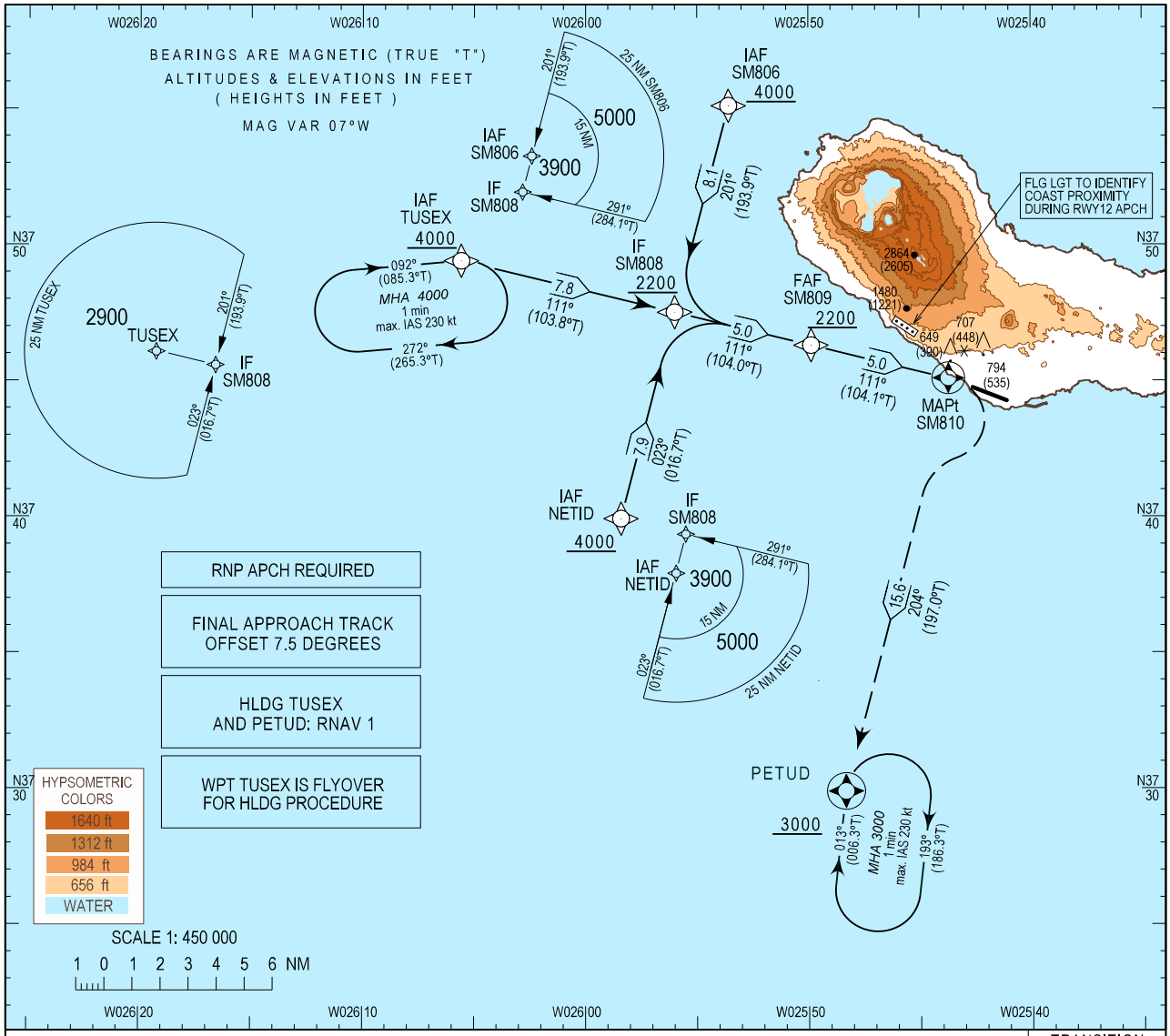
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 12 - ELEV 259 ft

ATIS 123.900
APP 119.400
TWR 118.300

PONTA DELGADA, João Paulo II (LPPD)

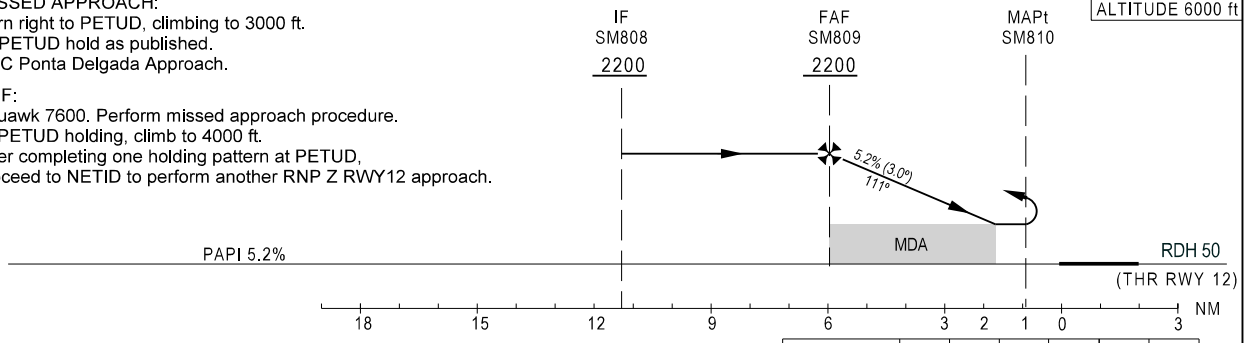
RNP Z RWY12



MISSED APPROACH:
Turn right to PETUD, climbing to 3000 ft.
At PETUD hold as published.
CTC Ponta Delgada Approach.

RCF:
Squawk 7600. Perform missed approach procedure.
At PETUD holding, climb to 4000 ft.
After completing one holding pattern at PETUD,
proceed to NETID to perform another RNP Z RWY12 approach.

TRANSITION ALTITUDE 6000 ft



CAT	LNAV		CIRCLING	
			NORTH	SOUTH
	MDA/H	OCH	MDA/H	
A	880 (621)	611	NOT AUTHORIZED	880 (621)
B				
C	960 (701)	699		960 (701)
D				

DIST THR (NM)	6	5	4	3	2	1
Altitude (height)	2200 (1941)	1910 (1651)	1590 (1331)	1270 (1011)	950 (691)	630 (371)

Speed	(kt)	80	100	120	140	160	180
	(min:sec)	4:28	3:34	2:59	2:33	2:14	1:59
RoD (3°)	(ft/min)	430	530	640	750	850	960

MAPt not defined by timing

New text inserted

Instrument Approach Procedure Coding Table											
LPPD RNP Z RWY12 (IAF1 SM806)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	SM806	IAF	No	375525.71N 0255331.02W	- -	-	-	- 4000	-	-	RNP APCH
TF	SM808	IF	No	374732.39N 0255558.29W	201 (193.9)	8.1	-	- 2200	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP Z RWY12 (IAF2 NETID)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	NETID	IAF	No	373959.25N 0255849.09W	- -	-	-	- 4000	-	-	RNP APCH
TF	SM808	IF	No	374732.39N 0255558.29W	023 (016.7)	7.9	-	- 2200	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP Z RWY12 (IAF3 TUSEX)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	TUSEX	IAF	No	374925.22N 0260534.76W	- -	-	-	- 4000	-	-	RNP APCH
TF	SM808	IF	No	374732.39N 0255558.29W	111 (103.8)	7.8	-	- 2200	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP Z RWY12 (IF-FINAL-MISSED)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	SM808	IF	No	374732.39N 0255558.29W	- -	-	-	- 2200	-	-	RNP APCH
TF	SM809	FAF/FAP	No	374619.60N 0254951.15W	111 (104.0)	5.0	-	 2200	-	-	RNP APCH
TF	SM810	MAPt	Yes	374506.36N 0254343.56W	111 (104.1)	5.0	-	- -	-	3.00° / 50 ft	RNP APCH
TF	PETUD	MAHP	Yes	372954.83N 0254819.91W	204 (197.0)	15.6	Right	 3000	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP Z RWY12 (HLDG PETUD TUSEX)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM / Time min**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
HM	PETUD	HLDG	Yes	372954.83N 0254819.91W	013 -	1 min	Right	FL140 3000	230 kt	-	RNP APCH
HM	TUSEX	HLDG	Yes	374925.22N 0260534.76W	092 -	1 min	Right	FL140 4000	230 kt	-	RNP APCH

I

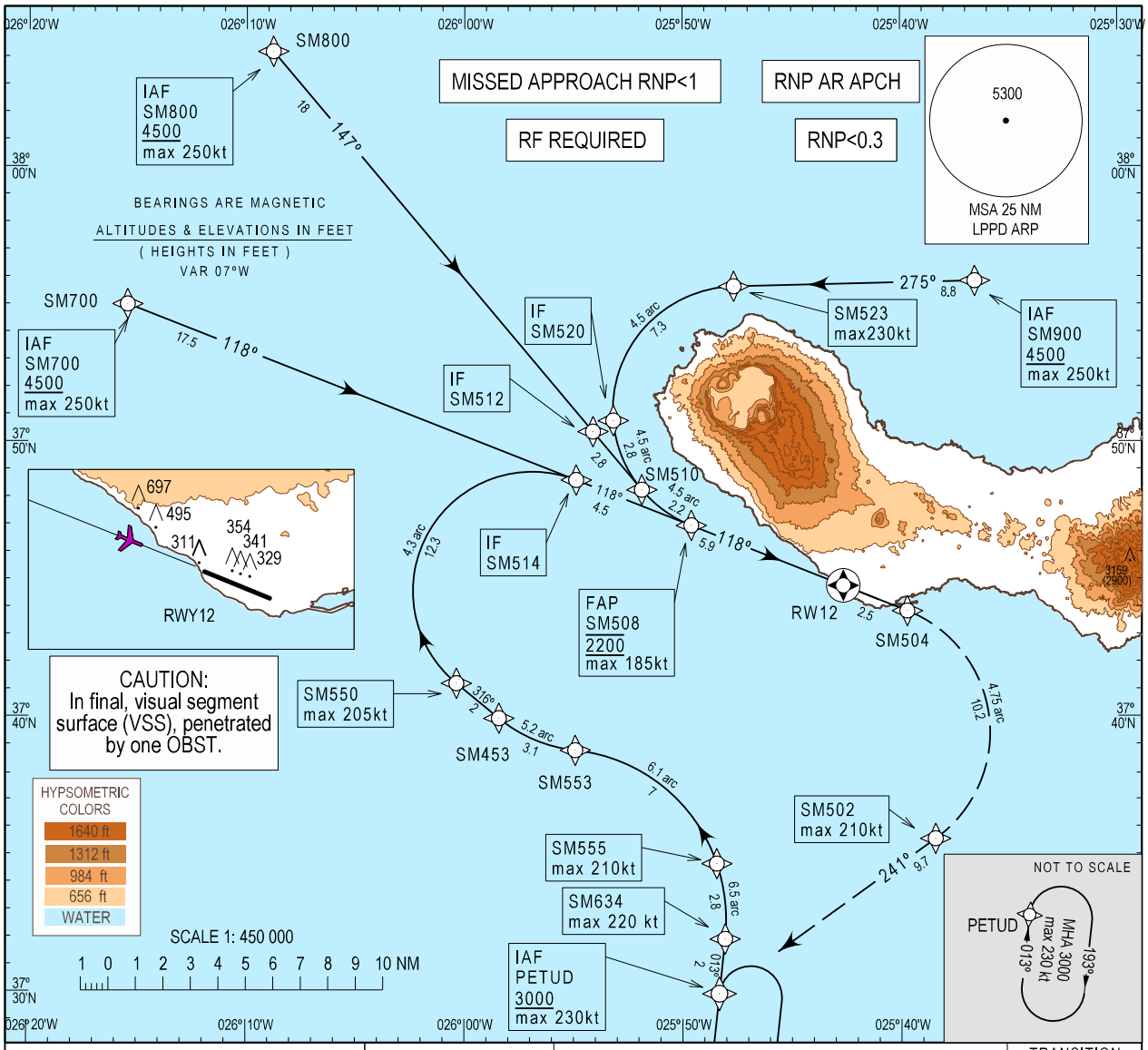
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 12 - ELEV 259 ft

ATIS 123.900
APP 119.400
TWR 118.300

PONTA DELGADA, João Paulo II (LPPD)

RNP Y RWY12 (AR)

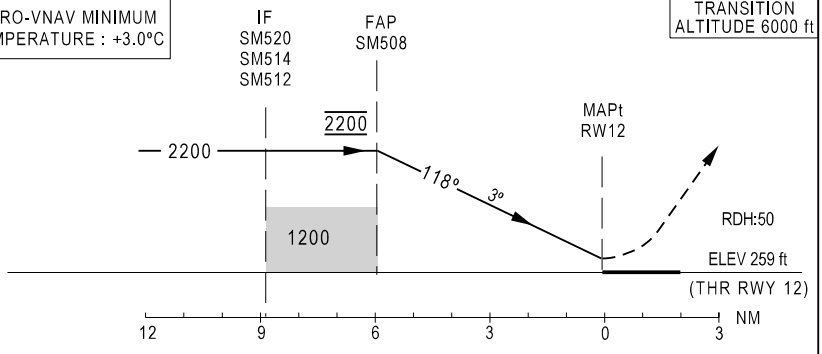


MISSED APPROACH
Climb to 3000 ft via SM504-SM502 to PETUD.
At PETUD hold or start a new approach via PETUD or follow ATC instructions.

Note: RNP 0.3 from SM504 until PETUD

RCF: Squawk 7600. Proceed as above. On PETUD make one complete holding pattern at 3000 ft and then proceed to SM453 to perform a new approach via PETUD to RWY12.

BARO-VNAV MINIMUM TEMPERATURE : +3.0°C



TRANSITION ALTITUDE 6000 ft

	CAT A		CAT B		CAT C		CAT D	
	DA(H)	OCH	DA(H)	OCH	DA(H)	OCH	DA(H)	OCH
(1) RNP 0.3	830(571)	567	840(581)	580	850(591)	588	860(601)	598
(2) RNP 0.2	630(371)	366	640(381)	378	650(381)	386	660(401)	396
(3) RNP 0.1	560(301)	240	560(301)	257	560(301)	265	560(301)	275

(1) RNP 0.3 is required until SM504
(2) RNP 0.2 is required until SM504
(3) RNP 0.1 is required until SM504

MSA Updated

Instrument Approach Procedure Coding Table
LPPD RNP Y RWY12 (AR)

Path Terminator	Waypoint				Course/ Track MAG (True)	Dist NM	Turn Direction	ARC Centre Waypoint		ARC Radius NM	Altitude	Speed	RNP Value NM	Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates				Identifier	Coordinates						
IF	SM700	IAF	-	375459.80N 0261527.28W	-	-	-	-	-	-	+4500FT	250 KT	0.3	RNP AR APCH	-
TF	SM514	IF	-	374836.13N 0255452.38W	118 (111.3)	17.51	-	-	-	-	-	-	0.3	RNP AR APCH	-
TF	SM508	-	-	374657.04N 0254935.89W	118 (111.5)	4.50	-	-	-	-	@2200FT	185KT	0.3	RNP AR APCH	-
IF	SM800	IAF	-	380411.09N 0260847.05W	-	-	-	-	-	-	+4500FT	250KT	0.3	RNP AR APCH	-
TF	SM512	IF	-	375021.89N 0255406.17W	147 (139.9)	18.04	-	-	-	-	-	-	0.3	RNP AR APCH	-
TF	SM510	-	-	374814.85N 0255151.88W	147 (140.0)	2.76	-	-	-	-	-	-	0.3	RNP AR APCH	-
RF	SM508	-	-	374657.04N 0254935.89W	-	2.24	L	SMC01	375108.42N 0254730.62W	4.50	@2200FT	185KT	0.3	RNP AR APCH	-
IF	PETUD	IAF	-	372954.83N 0254819.91W	-	-	-	-	-	-	+3000FT	230KT	0.3	RNP AR APCH	-
TF	SM634	-	-	373154.29N 0254804.13W	013 (006.0)	2.00	-	-	-	-	-	220KT	0.3	RNP AR APCH	-
RF	SM555	-	-	373438.78N 0254826.70W	-	2.78	L	SMC18	373234.84N 0255611.82W	6.50	-	210KT	0.3	RNP AR APCH	-
RF	SM553	-	-	373846.48N 0255455.01W	-	6.97	L	SMC19	373242.71N 0255542.36W	6.09	-	-	0.3	RNP AR APCH	-
RF	SM453	-	-	373956.20N 0255824.60W	-	3.05	R	SMC20	374357.18N 0255414.50W	5.20	-	-	0.3	RNP AR APCH	-
TF	SM550	-	-	374112.59N 0260021.27W	316 (309.5)	2.00	-	-	-	-	-	205KT	0.3	RNP AR APCH	-
RF	SM514	IF	-	374836.13N 0255452.38W	-	12.26	R	SMC03	374433.68N 0255652.67W	4.34	-	-	0.3	RNP AR APCH	-
TF	SM508	-	-	374657.04N 0254935.89W	118 (111.5)	4.50	-	-	-	-	@2200FT	185KT	0.3	RNP AR APCH	-
IF	SM900	IAF	-	375550.77N 0253635.27W	-	-	-	-	-	-	+4500FT	250KT	0.3	RNP AR APCH	-
TF	SM523	-	-	375538.64N 0254738.82W	275 (268.7)	8.75	-	-	-	-	-	230KT	0.3	RNP AR APCH	-
RF	SM520	IF	-	375045.86N 0255310.32W	-	7.33	L	SMC01	375108.42N 0254730.62W	4.50	-	-	0.3	RNP AR APCH	-
RF	SM510	-	-	374814.85N 0255151.88W	-	2.76	L	SMC01	375108.42N 0254730.62W	4.50	-	-	0.3	RNP AR APCH	-
RF	SM508	FAP	-	374657.04N 0254935.89W	-	2.24	L	SMC01	375108.42N 0254730.62W	4.50	@2200FT	185KT	0.3	RNP AR APCH	-
IF	SM508	FAP	-	374657.04N 0254935.89W	-	-	-	-	-	-	@2200FT	185KT	0.3/0.2/0.1	RNP AR APCH	-
TF	RW12	MAPT	Y	374445.80N 0254238.24W	118 (111.6)	5.94	-	-	-	-	-	-	0.3/0.2/0.1	RNP AR APCH	-
TF	SM504	-	-	374350.41N 0253942.48W	118 (111.6)	2.50	-	-	-	-	-	-	0.3/0.2/0.1	RNP AR APCH	-
RF	SM502	-	-	373533.08N 0253826.32W	-	10.18	R	SMC06	373925.20N 0254154.95W	4.75	-	210KT	0.3	RNP AR APCH	-
TF	PETUD	-		372954.83N 0254819.91W	241 (234.5)	9.68	-	-	-	-	+3000FT	230KT	0.3	RNP AR APCH	-
HM	PETUD	-		372954.83N 0254819.91W	-	-	R	-	-	-	+3000FT	230KT	-	RNP AR APCH	-

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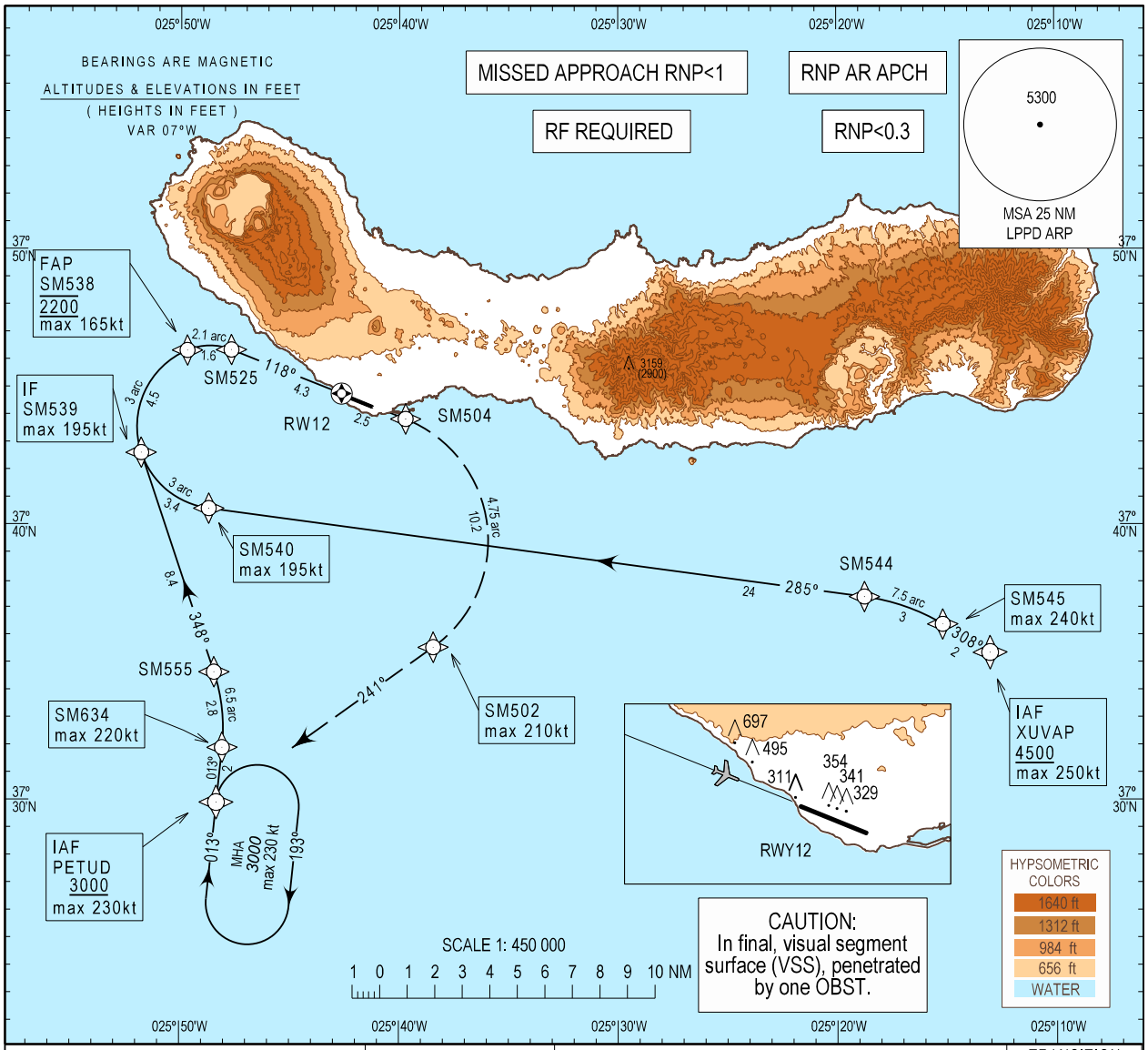
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 12 - ELEV 259 ft

ATIS 123.900
APP 119.400
TWR 118.300

PONTA DELGADA,João Paulo II (LPPD)

RNP X RWY12 (AR)



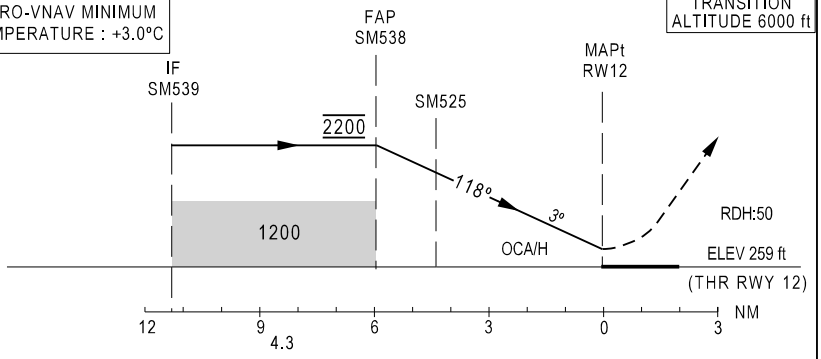
MISSED APPROACH
Climb to 3000 ft via SM504-SM502 to PETUD. At PETUD hold or start a new approach to RWY12 via PETUD or follow ATC instructions.

Note: RNP 0.3 from SM504 until PETUD

RCF: Squawk 7600. Proceed as above. On PETUD make one complete holding pattern at 3000 ft and then proceed to perform a new approach via PETUD to RWY12.

BARO-VNAV MINIMUM TEMPERATURE : +3.0°C

TRANSITION ALTITUDE 6000 ft



	CAT A		CAT B		CAT C		CAT D	
	DA(H)	OCH	DA(H)	OCH	DA(H)	OCH	DA(H)	OCH
(1) RNP 0.3	830(571)	567	840(581)	580	850(591)	588	860(601)	598
(2) RNP 0.2	630(371)	366	640(381)	378	650(381)	386	660(401)	396
(3) RNP 0.1	560(301)	240	560(301)	257	560(301)	265	560(301)	275

(1) RNP 0.3 is required until SM504
(2) RNP 0.2 is required until SM504
(3) RNP 0.1 is required until SM504

MSA Updated

Instrument Approach Procedure Coding Table																
LPPD RNP X RWY12 (AR)																
Path Terminator	Waypoint				Course/ Track MAG (True)	Dist NM	Turn Direction	ARC Centre Waypoint		ARC Radius NM	Altitude	Speed	RNP Value NM	Navigation Specification	Remarks
	Ident	Type	Flyover	Coordinates				Identifier	Coordinates						
IF	XUVAP	IAF		373521.17N 0251300.95W							+4500FT	250KT	0.3	RNP AR APCH	
TF	SM545			373623.03N 0251510.39W	308 (301.0)	2.00						240KT	0.3	RNP AR APCH	
RF	SM544			373723.01N 0251844.60W		3.03	L	SMC21	372956.65N 0252001.45W	7.50			0.3	RNP AR APCH	
TF	SM540			374035.19N 0254842.12W	285 (277.8)	24.01	L					195KT	0.3	RNP AR APCH	
RF	SM539	IF		374236.72N 0255147.63W		3.35	R	SMC04	374333.86N 0254812.48W	3.00			0.3	RNP AR APCH	
IF	PETUD	IAF		372954.83N 0254819.91W							+3000FT	230KT	0.3	RNP AR APCH	
TF	SM634			373154.29N 0254804.13W	013 (006.0)	2.00						220KT	0.3	RNP AR APCH	
RF	SM555			373438.78N 0254826.70W		2.78	L	SMC18	373234.84N 0255611.82W	6.50			0.3	RNP AR APCH	
TF	SM539	IF		374236.72N 0255147.63W	348 (341.5)	8.39	L					195KT	0.3	RNP AR APCH	
RF	SM538	FAP		374619.65N 0254941.43W		4.47	R	SMC04	374333.86N 0254812.48W	3.00	@2200FT	165KT	0.3/0.2/0.1	RNP AR APCH	
RF	SM525			374620.90N 0254740.73W		1.64	R	SMC17	374423.60N 0254839.15W	2.10		-	0.3/0.2/0.1	RNP AR APCH	
TF	RW12	MAPT	Y	374445.80N 0254238.24W	118 (111.6)	4.30						-	0.3/0.2/0.1	RNP AR APCH	
TF	SM504			374350.41N 0253942.48W	118 (111.6)	2.50						-	0.3/0.2/0.1	RNP AR APCH	
RF	SM502			373533.08N 0253826.32W		10.18	R	SMC06	373925.20N 0254154.95W	4.75		210KT	0.3	RNP AR APCH	
TF	PETUD			372954.83N 0254819.91W	241 (234.5)	9.68					+3000FT	230KT	0.3	RNP AR APCH	
HM	PETUD			372954.83N 0254819.91W			R				+3000FT	230KT	NA	RNP AR APCH	

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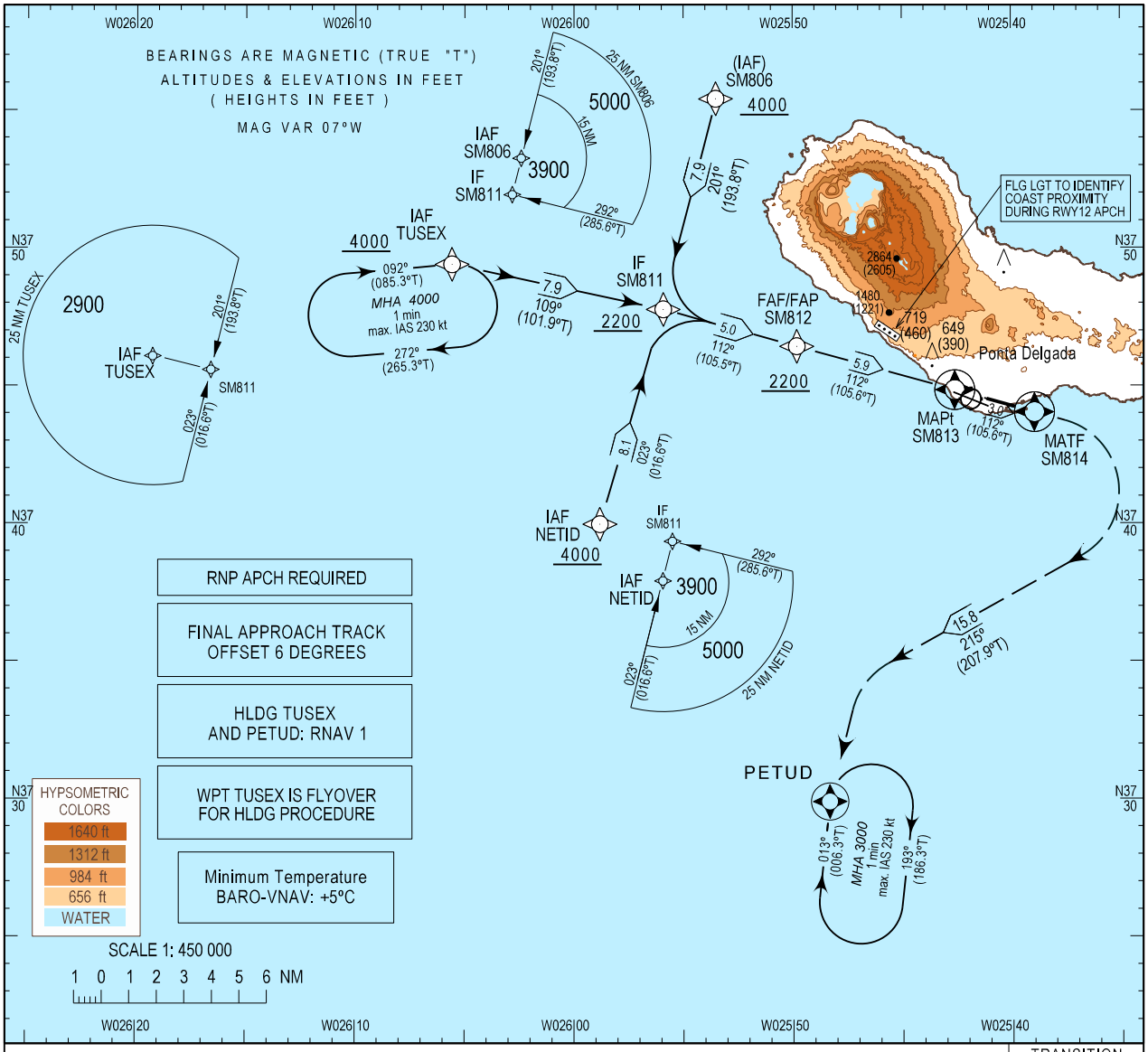
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 12 - ELEV 259 ft

ATIS 123.900
APP 119.400
TWR 118.300

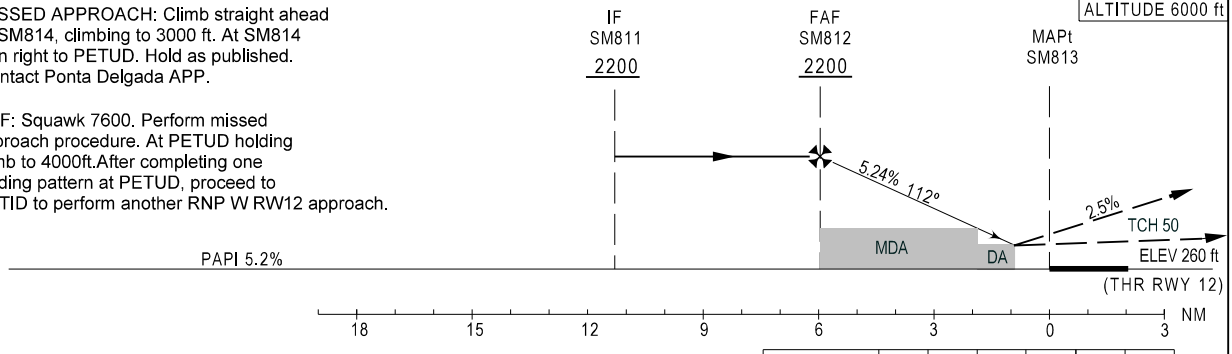
PONTA DELGADA, João Paulo II (LPPD)

RNP W RWY12



MISSED APPROACH: Climb straight ahead to SM814, climbing to 3000 ft. At SM814 turn right to PETUD. Hold as published. Contact Ponta Delgada APP.

RCF: Squawk 7600. Perform missed approach procedure. At PETUD holding climb to 4000ft.After completing one holding pattern at PETUD, proceed to NETID to perform another RNP W RW12 approach.



CAT	LNAV/VNAV		LNAV		CIRCLING	
					NORTH	SOUTH
	DA/H	OCH	MDA/H	OCH	MDA/H	
A	760 (501)	501	830 (571)	565	NOT AUTHORIZED	830 (571)
B						
C	770 (511)	506				860 (601)
D						950 (691)

DIST THR (NM)	6	5	4	3	2	1
Altitude (height)	2200 (1940)	1910 (1650)	1590 (1330)	1270 (1010)	950 (690)	630 (370)

RoD (SM812-THR)	(kt)	80	100	120	140	160	180
	(min:sec)	4:28	3:34	2:59	2:33	2:14	1:59
	(ft/min)	430	530	640	750	850	960

MAPt not defined by timing

New text inserted

Instrument Approach Procedure Coding Table											
LPPD RNP W RWY12 (IAF1 SM806)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	SM806	IAF	No	375525.71N 0255331.02W	- -	-	-	- 4000	-	-	RNP APCH
TF	SM811	IF	No	374747.02N 0255555.06W	201 (193.8)	7.9	-	- 2200	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP W RWY12 (IAF2 NETID)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	NETID	IAF	No	373959.25N 0255849.09W	- -	-	-	- 4000	-	-	RNP APCH
TF	SM811	IF	No	374747.02N 0255555.06W	023 (016.6)	8.1	-	- 2200	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP W RWY12 (IAF3 TUSEX)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	TUSEX	IAF	No	374925.22N 0260534.76W	- -	-	-	- 4000	-	-	RNP APCH
TF	SM811	IF	No	374747.02N 0255555.06W	109 (101.9)	7.9	-	- 2200	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP W RWY12 (IF-FINAL-MISSED)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
IF	SM811	IF	No	374747.02N 0255555.06W	- -	-	-	- 2200	-	-	RNP APCH
TF	SM812	FAF/FAP	No	374626.28N 0254948.90W	112 (105.5)	5.0	-	 2200	-	-	RNP APCH
TF	SM813	MAPt	Yes	374451.34N 0254235.89W	112 (105.6)	5.9	-	- -	-	3.00° / 50 ft	RNP APCH
TF	SM814	MATF	Yes	374402.73N 0253857.37W	112 (105.6)	3.0	-	- -	-	-	RNP APCH
TF	PETUD	MAHP	Yes	372954.83N 0254819.91W	215 (207.9)	16.0	Right	- 3000	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP W RWY12 (HLDG PETUD TUSEX)											
Path Terminator	**Waypoint**				**Course/Track MAG (True)**	**Dist NM / Time min**	**Turn Direction**	**Upper limit [ft]** / **Lower limit [ft]**	**Speed**	**VPA [°]/TCH [ft]**	**Navigation Specification**
	Identifier	**Type**	**Flyover**	**Coordinates**							
HM	PETUD	HLDG	Yes	372954.83N 0254819.91W	013 -	1 min	Right	FL140 3000	230 kt	-	RNP APCH
HM	TUSEX	HLDG	Yes	374925.22N 0260534.76W	092 -	1 min	Right	FL140 4000	230 kt	-	RNP APCH

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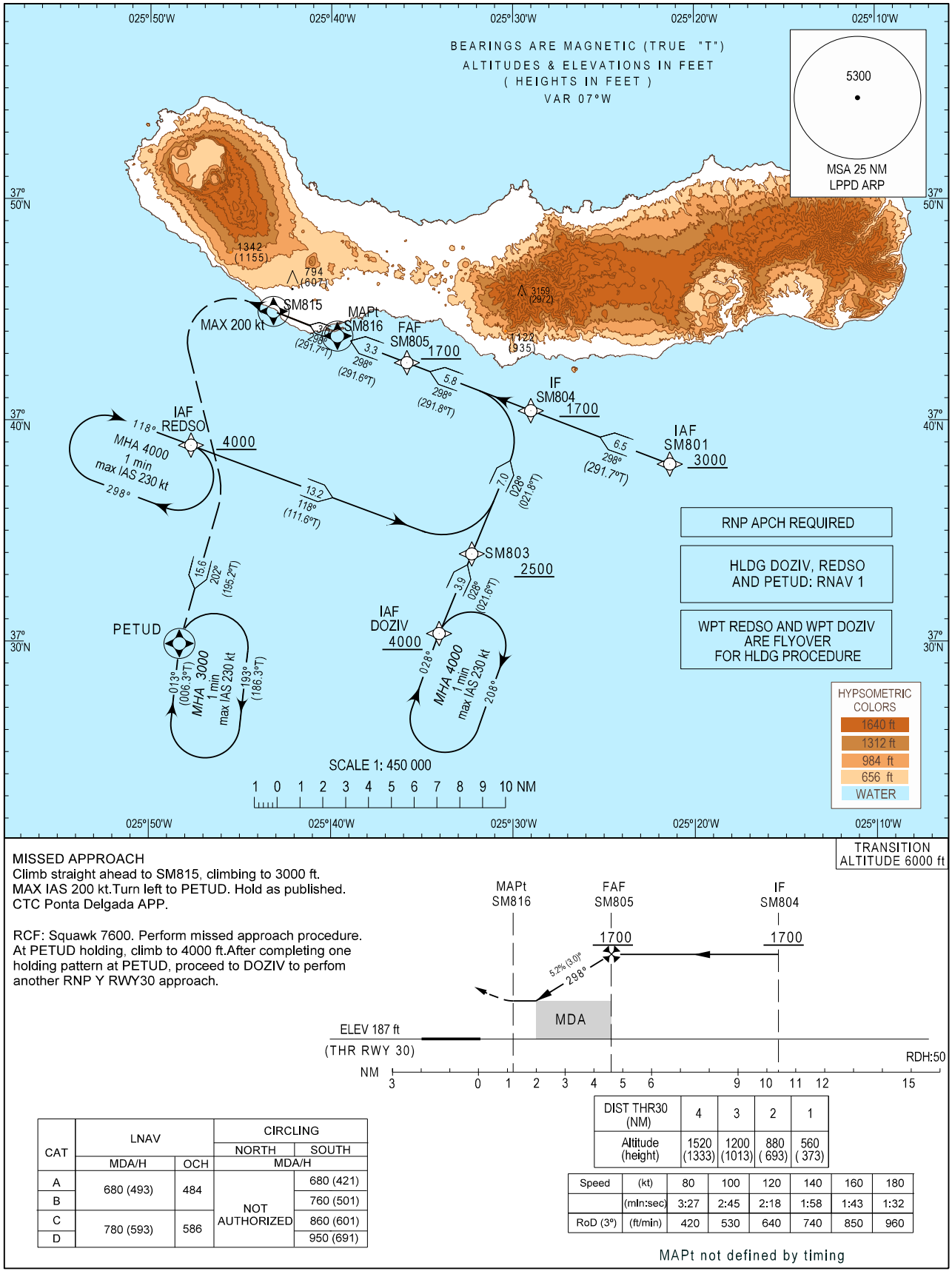
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 30 - ELEV 187 ft

ATIS 123.900
APP 119.400
TWR 118.300

PONTA DELGADA, João Paulo II (LPPD)

RNP Y RWY30



TRANSITION ALTITUDE 6000 ft

MISSED APPROACH
Climb straight ahead to SM815, climbing to 3000 ft.
MAX IAS 200 kt.Turn left to PETUD. Hold as published.
CTC Ponta Delgada APP.

RCF: Squawk 7600. Perform missed approach procedure.
At PETUD holding, climb to 4000 ft.After completing one holding pattern at PETUD, proceed to DOZIV to perfom another RNP Y RWY30 approach.

CAT	LNAV		CIRCLING	
			NORTH	SOUTH
	MDA/H	OCH	MDA/H	
A	680 (493)	484	NOT AUTHORIZED	680 (421)
B				760 (501)
C	780 (593)	586		860 (601)
D				950 (691)

DIST THR30 (NM)	4	3	2	1
Altitude (height)	1520 (1333)	1200 (1013)	880 (693)	560 (373)

Speed	(kt)	80	100	120	140	160	180
	(min:sec)	3:27	2:45	2:18	1:58	1:43	1:32
RoD (3°)	(ft/min)	420	530	640	740	850	960

MAPt not defined by timing

New text inserted

Instrument Approach Procedure Coding Table											
LPPD RNP Y RWY30 (IAF1 REDSO)											
Path Terminator	Waypoint				Course/Track MAG (True)	Dist NM	Turn Direction	Upper limit [ft] / Lower limit [ft]	Speed	VPA [°]/TCH [ft]	Navigation Specification
	Identifier	Type	Flyover	Coordinates							
IF	REDSO	IAF	No	373852.63N 0254743.33W	- -	-	-	- 4000	-	-	RNP APCH
TF	SM803	TP	No	373358.95N 0253215.55W	118 (111.6)	13.2	-	- 2500	-	-	RNP APCH
TF	SM804	IF	No	374027.04N 0252900.47W	028 (021.8)	7.0	Left	- 1700	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP Y RWY30 (IAF2 DOZIV)											
Path Terminator	Waypoint				Course/Track MAG (True)	Dist NM	Turn Direction	Upper limit [ft] / Lower limit [ft]	Speed	VPA [°]/TCH [ft]	Navigation Specification
	Identifier	Type	Flyover	Coordinates							
IF	DOZIV	IAF	No	373022.93N 0253403.26W	- -	-	-	- 4000	-	-	RNP APCH
TF	SM803	TP	No	373358.95N 0253215.55W	028 (021.6)	3.9	-	- 2500	-	-	RNP APCH
TF	SM804	IF	No	374027.04N 0252900.47W	028 (021.8)	7.0	Left	- 1700	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP Y RWY30 (IAF3 SM801)											
Path Terminator	Waypoint				Course/Track MAG (True)	Dist NM	Turn Direction	Upper limit [ft] / Lower limit [ft]	Speed	VPA [°]/TCH [ft]	Navigation Specification
	Identifier	Type	Flyover	Coordinates							
IF	SM801	IAF	No	373801.88N 0252121.53W	- -	-	-	- 3000	-	-	RNP APCH
TF	SM804	IF	No	374027.04N 0252900.47W	298 (291.7)	6.5	-	- 1700	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP Y RWY30 (IF-FINAL-MISSED)											
Path Terminator	Waypoint				Course/Track MAG (True)	Dist NM	Turn Direction	Upper limit [ft] / Lower limit [ft]	Speed	VPA [°]/TCH [ft]	Navigation Specification
	Identifier	Type	Flyover	Coordinates							
IF	SM804	IF	No	374027.04N 0252900.47W	- -	-	-	- 1700	-	-	RNP APCH
TF	SM805	FAF/FAP	No	374237.35N 0253549.92W	298 (291.8)	5.8	-	 1700	-	-	RNP APCH
TF	SM816	MAPt	Yes	374349.62N 0253939.99W	298 (291.6)	3.3	-	 	-	3.00° / 50 ft	RNP APCH
TF	SM815	MATP	Yes	374456.31N 0254311.62W	298 (291.7)	3.0	-	 	200 kt	-	RNP APCH
TF	PETUD	MAHP	Yes	372954.83N 0254819.91W	202 (195.2)	15.6	Left	 3000	-	-	RNP APCH

Instrument Approach Procedure Coding Table											
LPPD RNP Y RWY30 (HLDG PETUD REDSO DOZIV)											
Path Terminator	Waypoint				Course/Track MAG (True)	Dist NM / Time min	Turn Direction	Upper limit [ft] / Lower limit [ft]	Speed	VPA [°]/TCH [ft]	Navigation Specification
	Identifier	Type	Flyover	Coordinates							
HM	PETUD	HLDG	Yes	372954.83N 0254819.91W	013 -	1 min	Right	FL140 3000	230 kt	-	RNP APCH
HM	REDSO	HLDG	Yes	373852.63N 0254743.33W	118 -	1 min	Right	FL140 4000	230 kt	-	RNP APCH
HM	DOZIV	HLDG	Yes	373022.93N 0253403.26W	028 -	1 min	Right	FL140 4000	230 kt	-	RNP APCH

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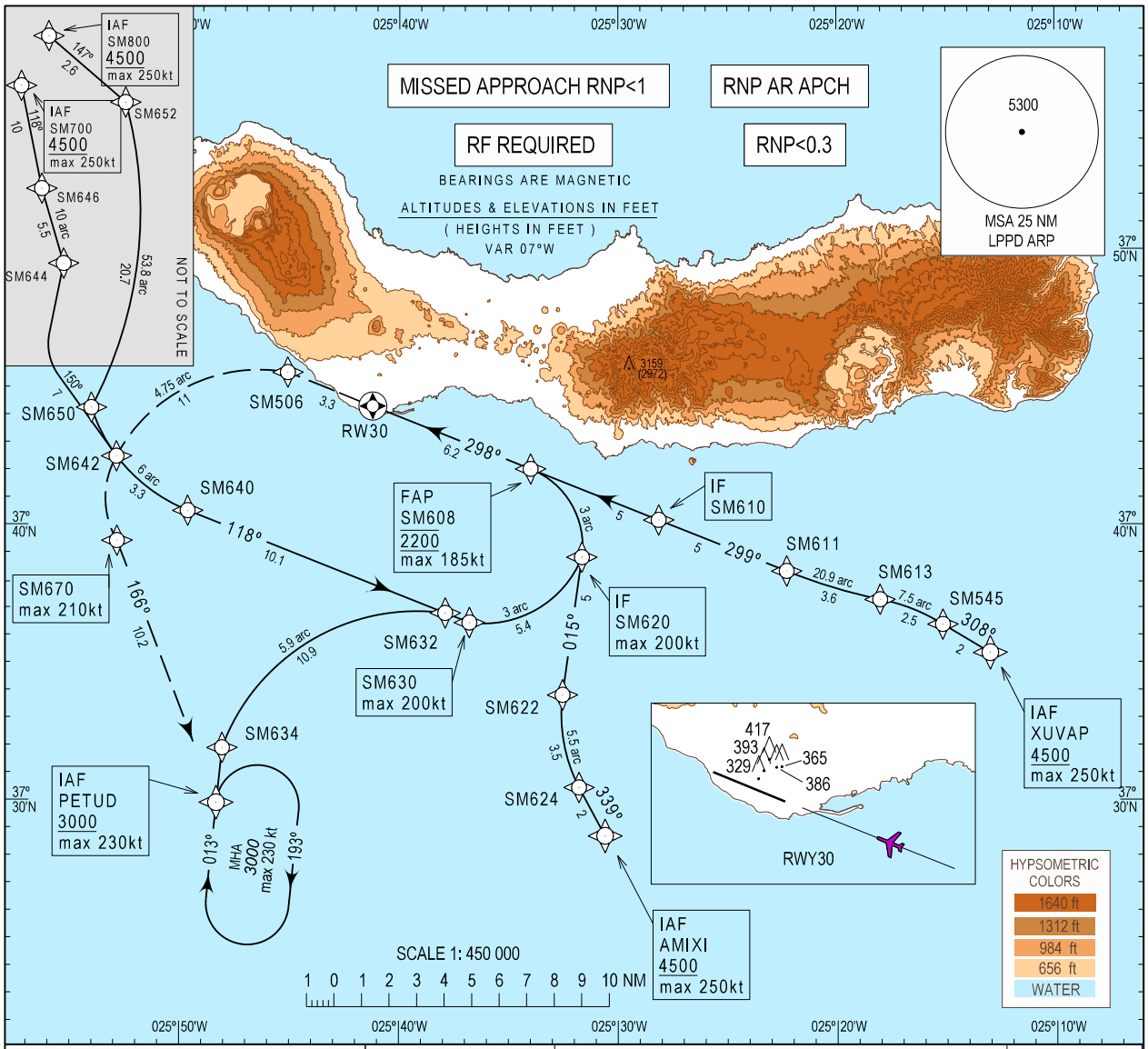
INSTRUMENT APPROACH CHART - ICAO

AD ELEV 259 ft
HEIGHTS RELATED
THR RWY 30 - ELEV 187 ft

ATIS 123.900
APP 119.400
TWR 118.300

PONTA DELGADA, João Paulo II (LPPD)

RNP RWY30 (AR)



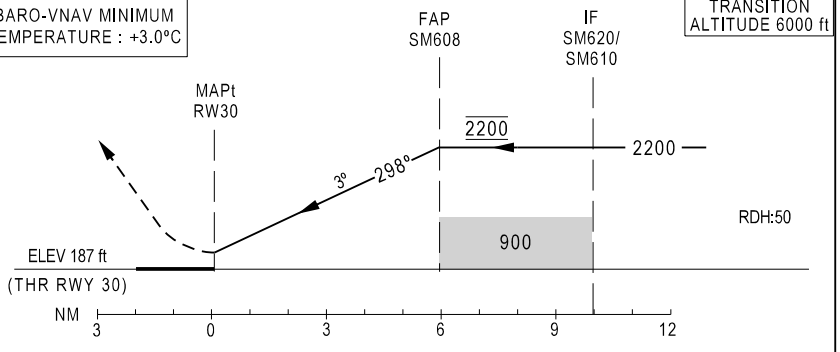
MISSED APPROACH
Climb to 3000 ft via SM506-SM670 to PETUD. At PETUD hold or start a new approach to RWY30 via PETUD or follow ATC instructions.

Note: RNP 0.3 from SM506 until PETUD

RCF: Squawk 7600. Proceed as above. On PETUD make one complete holding pattern at 3000 ft and then proceed to perform a new approach via PETUD to RWY30.

BARO-VNAV MINIMUM TEMPERATURE : +3.0°C

TRANSITION ALTITUDE 6000 ft



	CAT A		CAT B		CAT C		CAT D	
	DA(H)	OCH	DA(H)	OCH	DA(H)	OCH	DA(H)	OCH
(1) RNP 0.3	510(323)	322	530(343)	343	550(363)	362	570(383)	380
(2) RNP 0.2	490(303)	291	500(313)	312	520(333)	331	540(353)	349
(3) RNP 0.1	490(303)	234	490(303)	255	490(303)	274	490(303)	292

(1) RNP 0.3 is required until SM506
(2) RNP 0.2 is required until SM506
(3) RNP 0.1 is required until SM506

MSA Updated

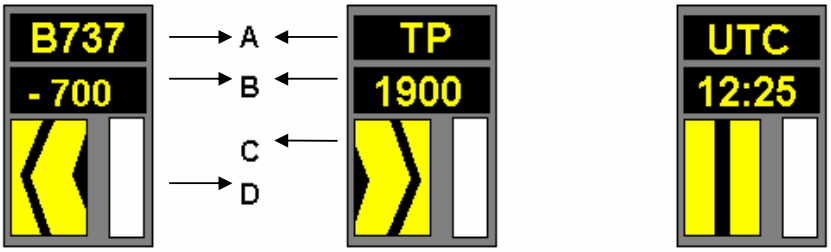
Instrument Approach Procedure Coding Table

Ponta Delgada RNP RWY30 (AR)

Path Terminator	Waypoint				Course/ Track MAG (True)	Dist NM	Turn Direction	ARC Centre Waypoint		ARC Radius NM	Altitude	Speed	RNP Value NM	Navigation Specification	Remarks
	Identifier	Type	Flyover	Coordinates				Identifier	Coordinates						
IF	SM800	IAF	-	380411.09N 0260847.05W	-	-	-	-	-	-	+4500FT	250KT	0.3	RNP AR APCH	-
TF	SM652	-	-	380212.37N 0260640.48W	147 (139.9)	2.59	-	-	-	-	-	-	0.3	RNP AR APCH	-
RF	SM650	-	-	374414.79N 0255404.89W	-	20.65	R	SMC13	372718.77N 0265819.78W	53.79	-	-	0.3	RNP AR APCH	-
RF	SM642	-	-	374229.11N 0255255.61W	-	1.99	L	SMC12	374605.94N 0254653.09W	6.00	-	-	0.3	RNP AR APCH	-
RF	SM640	-	-	374030.77N 0254939.92W	-	3.29	L	SMC12	374605.94N 0254653.09W	6.00	-	-	0.3	RNP AR APCH	-
TF	SM632	-	-	373648.16N 0253753.51W	118 (111.6)	10.06	-	-	-	-	-	-	0.3	RNP AR APCH	-
TF	SM630	-	-	373627.26N 0253647.44W	118 (111.7)	0.94	-	-	-	-	-	200KT	0.3	RNP AR APCH	-
RF	SM620	IF	-	373849.70N 0253139.21W	-	5.43	L	SMC09	373914.71N 0253523.67W	3.00	-	-	0.3	RNP AR APCH	-
RF	SM608	FAP	-	374202.13N 0253359.80W	-	3.99	L	SMC09	373914.71N 0253523.67W	3.00	@2200FT	185KT	0.3/0.2/0.1	RNP AR APCH	-
TF	RW30	MAPT	Y	374418.90N 0254112.86W	298 (291.7)	6.16	-	-	-	-	-	-	0.3/0.2/0.1	RNP AR APCH	-
TF	SM506	-	-	374532.27N 0254505.94W	298 (291.6)	3.31	-	-	-	-	-	-	0.3/0.2/0.1	RNP AR APCH	-
RF	SM670	-	-	373925.23N 0255253.52W	-	10.98	L	SMC15	374106.97N 0254718.14W	4.75	-	210KT	0.3	RNP AR APCH	-
TF	PETUD	-	-	372954.83N 0254819.91W	166 (159.1)	10.16	-	-	-	-	+3000FT	230KT	0.3	RNP AR APCH	-
HM	PETUD	-	-	372954.83N 0254819.91W	-	-	R	-	-	-	+3000FT	230KT	NA	RNP AR APCH	-
IF	SM700	IAF	-	375459.80N 0261527.28W	-	-	-	-	-	-	+4500FT	250KT	0.3	RNP AR APCH	-
TF	SM646	-	-	375121.07N 0260341.41W	118 (111.3)	10.00	-	-	-	-	-	-	0.3	RNP AR APCH	-
RF	SM644	-	-	374804.29N 0255814.23W	-	5.49	R	SMC14	374201.76N 0260817.45W	10.00	-	-	0.3	RNP AR APCH	-
TF	SM642	-	-	374229.11N 0255255.61W	150 (142.9)	6.99	-	-	-	-	-	-	0.3	RNP AR APCH	-
IF	AMIXI	IAF	-	372842.00N 0253036.00W	-	-	-	-	-	-	+4500FT	250KT	0.3	RNP AR APCH	-
TF	SM624	-	-	373027.94N 0253147.13W	339 (331.9)	2.00	-	-	-	-	-	-	0.3	RNP AR APCH	-
RF	SM622	-	-	373349.70N 0253232.15W	-	3.47	R	SMC10	373303.60N 0252541.20W	5.50	-	-	0.3	RNP AR APCH	-
TF	SM620	IF	-	373849.70N 0253139.21W	015 (008.0)	5.04	-	-	-	-	-	200KT	0.3	RNP AR APCH	-
IF	XUVAP	IAF	-	373521.17N 0251300.95W	-	-	-	-	-	-	+4500FT	250KT	0.3	RNP AR APCH	-
TF	SM545	-	-	373623.03N 0251510.39W	308 (301.0)	2.00	-	-	-	-	-	-	0.3	RNP AR APCH	-
RF	SM613	-	-	373717.09N 0251802.32W	-	2.46	L	SMC21	372956.65N 0252001.45W	7.50	-	-	0.3	RNP AR APCH	-
RF	SM611	-	-	373819.27N 0252218.03W	-	3.55	R	SMC22	375743.97N 0251228.33W	20.90	-	-	0.3	RNP AR APCH	-
TF	SM610	IF	-	374010.85N 0252808.77W	299 (291.8)	5.00	-	-	-	-	-	-	0.3	RNP AR APCH	-
TF	SM608	FAP	-	374202.13N 0253359.80W	299 (291.8)	5.00	-	-	-	-	@2200FT	185KT	0.3	RNP AR APCH	-
IF	PETUD	IAF	-	372954.83N 0254819.91W	-	-	-	-	-	-	+3000FT	230KT	0.3	RNP AR APCH	-
TF	SM634	-	-	373154.29N 0254804.13W	013 (006.0)	2.00	-	-	-	-	-	-	0.3	RNP AR APCH	-
RF	SM632	-	-	373648.16N 0253753.51W	-	10.94	R	SMC11	373116.76N 0254038.88W	5.94	-	-	0.3	RNP AR APCH	-

		RAMP / STAND	INS COORDINATES	ELEVATION (M/AMSL)	ACFT TYPE (CRITICAL)	REMARKS
5	INS Checkpoint positions	S08	411401.59N 0084017.17W	71.90	B738	Nose IN
		S09	411403.30N 0084018.64W	71.63	A332	Nose IN
		S10	411401.58N 0084016.71W	72.01	B738	Nose IN
		S11	411403.34N 0084018.49W	71.70	B767	Nose IN
		S12	411404.05N 0084021.17W	71.14	A330	Nose IN
		S20	411401.87N 0084029.05W	68.89	A321	Nose IN
		S21	411403.17N 0084029.39W	68.90	A321	Nose IN
		S22	411404.46N 0084029.73W	68.89	A321	Nose IN
		S23	411405.76N 0084030.06W	68.89	A321	Nose IN
		S24	411407.05N 0084030.40W	68.90	A321	Nose IN
		S25	411408.35N 0084030.74W	68.90	A321	Nose IN
		S30	411406.22N 0084021.79W	71.27	A332	Nose IN
		S31	411407.64N 0084019.81W	71.82	B738	Nose IN
		S32	411409.35N 0084019.42W	72.01	B757	Nose IN
		S33	411411.13N 0084019.97W	71.99	B767	Nose IN
		S34	411412.80N 0084020.49W	71.98	B757	Nose IN
		S35	411414.58N 0084020.93W	71.97	B767	Nose IN
		S36	411416.25N 0084022.14W	71.82	B738	Nose IN
		S37	411416.87N 0084024.68W	71.11	B764	Nose IN
		S38	411417.98N 0084025.21W	71.00	B738	Nose IN
		S40	411412.64N 0084032.11W	68.84	CODE C	Nose IN
		S41	411414.48N 0084032.58W	68.84	B763	Nose IN
		S42	411416.31N 0084033.06W	68.82	B77L	Nose IN
		S43	411418.57N 0084033.66W	68.64	B763	Nose IN
		S50	411419.39N 0084025.29W	71.02	B738	Nose IN
		S51	411419.43N 0084025.11W	71.16	B744	Nose IN
		S52	411420.21N 0084025.42W	71.14	B738	Nose IN
		S53	411420.94N 0084022.96W	71.93	B764	Nose IN
		S54	411422.94N 0084021.98W	72.10	B738	Nose IN
		S55	411424.66N 0084022.46W	72.03	B744	Nose IN
		S56	411423.10N 0084021.67W	72.01	B738	Nose IN
		S57	411426.18N 0084022.87W	72.03	B738	Nose IN
		S60	411423.47N 0084035.15W	68.74	A321	Nose IN
		S61	411424.70N 0084035.47W	68.72	A321	Nose IN
		S62	411425.93N 0084035.80W	68.72	A321	Nose IN
		S63	411427.16N 0084036.12W	68.70	CRJK	Nose IN
		S64	411428.39N 0084036.44W	68.73	A321	Nose IN
		S65	411429.62N 0084036.76W	68.74	A321	Nose IN
		S66	411430.85N 0084037.09W	68.73	A321	Nose IN
		S70	411427.84N 0084023.46W	71.90	B764	Nose IN
		S71	411429.46N 0084024.11W	71.75	B757	Nose IN
		S72	411430.32N 0084023.96W	72.00	A380	Nose IN
		S73	411430.93N 0084024.49W	72.00	B757	Nose IN
		T01	411410.48N 0084105.58W	62.04	B764	Nose IN
		T02	411412.62N 0084106.21W	61.69	B744	Nose IN
		T03	411415.03N 0084106.65W	61.35	B744	Nose IN
		T04	411417.20N 0084107.30W	60.99	B764	Nose IN
		W	411406.92N 0084056.09W	64.88	B762	Nose OUT
6	Remarks		NIL			

LPPR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system at aircraft stands	**AIRCRAFT PARKING AND INFORMATION SYSTEM** APIS DISPLAY  **Turn Left** **Turn Right** **On Centreline** Stands S10, S11, S12, S30, S31, S32, S33, S34, S35, S36, S37, S51, S53, S54 and S55 provided with APIS **DESCRIPTION** A – Display indicating: COMPANY, “ETD”, “UTC”, AIRCRAFT TYPE, “SLOW”, “STOP”, “OK”, “CHCK” and ”TOO/FAR” information; B – Display indicating: FLIGHT NUMBER, TIME, AIRCRAFT SERIES, “STOP”. “ON”, (Chocks) and “DOWN” information; C – Centreline beacon side-in-guidance; D – Closing-rate information. Full closing rate thermometer indicates at least 14 meters to stop position. **PILOT INSTRUCTIONS** 1 – Follow taxi lead-in line and adjust according to the directions of centreline beacon side-in guidance; 2 – Check correct ACFT type is flashing and that centreline guidance and closing rate thermometer is activated. The flight number may also be presented; 3 – Do not enter the stand if display presents STOP or wrong ACFT– type; 4 – Approx. 14 metres before STOP, flight number will disappear if this is presented; 5 - 19 M before STOP, ACFT type goes steady. If speed is to high, SLOW DOWN can be shown; 6 - Full closing rate thermometer indicates at least 14 metres to STOP. When ACFT has less than 14 metres to STOP thermometer starts to move from bottom to top; 7 - When stop position reached, display indicates STOP and if aircraft parks correctly, display indicates also OK; 8 – If aircraft overshoots the limit for correct parking, display indicates TOO/FAR. Push back might be necessary; 9 - Displays and indicators automatically shut down after some seconds. After ON BLOCK, display can indicate UTC time and CHCK ON (chocks on). 10 - After CHOCKS ON, displays departure flight number...

AD 2 AERODROMES

LPPS AD 2.

LPPS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LPPS - PORTO SANTO

LPPS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site	LAT: 330415N LONG: 0162059W Intersection Runway 36/18 with Taxiway unserviceable
2	Direction and distance of ARP from city or town	2KM (1.08NM) NNW from Porto Santo
3	Elevation/Reference temperature	104M / 340FT 25.7° C (AUG)
4	Geoid undulation at aerodrome elevation position	
5	MAG VAR/Annual change	4°W (2020) / 0.17° decreasing
6	AD Administration, address, telephone, telefax, telex, AFS	Post: ANA-SA Aeroportos de Portugal Direção dos Aeroportos da Madeira Aeroporto de Porto Santo Ilha de Porto Santo 9400 – PORTO SANTO Phone: +351 291980120 Fax: +351 291980121 AFS: LPPSYDYA Email: madeira.airports@ana.pt URL: http://www.ana.pt
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	NIL

LPPS AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	Customs: MON-SUN + HOL 07:00-23:00 (06:00-22:00) 23:00-07:00 (22:00-07:00) on request Immigration: MON-FRI 09:00-18:00 (08:00-17:00) 18:00-09:00 (17:00-08:00)on request SAT + SUN + HOL H24 on request
3	Health and sanitation	NIL
4	AIS Briefing Office	AIS available through ARO Portugal (see GEN 3.1)
5	ATS Reporting Office (ARO) *	ARO available through ARO Portugal (see GEN 3.1)
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling**	MON-SUN+HOL 09:00-13:00 (08:00-12:00) and 15:00-19:00 (14:00-18:00) MON-SUN+HOL 13:00-15:00 (12:00-14:00) and 19:00-09:00 (18:00-08:00) on request

9	Handling	Groundforce: MON-SUN+HOL 07:00-22:00 (06:00-21:00) 22:00-07:00 (21:00-06:00) on request
10	Security	H24
11	De-icing	NIL
12	Remarks	Services availability on request: for contacts see AD 2.20. *Acceptance and forwarding of FPL and associated messages is possible through AFS Station. **Fuel Service - Around 30 minutes of delay maybe expected for non-scheduled flights

LPPS AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities:	One Fork Lift (2 tons) High Lift Loader Conveyor Belt Various vehicles and Equipment
2	Fuel/oil types	FUEL: JET A1 OIL: None
3	Fuelling facilities/capacity	Hydrant system and fuel Trucks 2 Trucks capacity 36000 litres. Delivery rate 56 litres per second.
4	De-icing facilities	NIL
5	Hangar space available for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	Minor repairs only
7	Remarks	Push Back not available

LPPS AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in City
2	Restaurants	Restaurants in City
3	Transportation	Taxis
4	Medical facilities	First Aid Treatment at Aerodrome, Ambulance City Medical Centre in City H24
5	Bank and Post Office	In City
6	Tourist Office	In City
7	Remarks	NIL

LPPS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 7 - Daily 08:00-23:59 (07:00-22:59) CAT 5 - Daily 00:00-07:59 (23:00-06:59) Higher Category, up to CAT 8, available by Prior Permission Required (PPR) to Madeira Airports Director LPPSYDYA, 60 minutes prior operation, or at least 30 minutes directly to Control Tower.
2	Rescue equipment	In accordance with CAT 7 requirements established in table 5.2 of ICAO Doc. 9137-AN/898 Part I.