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# PORTUGAL

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DIRECÇÃO DE SEGURANÇA E DESEMPENHO OPERACIONAL  
AERONAUTICAL INFORMATION SERVICE  
APARTADO 8223  
1803-001 LISBOA CODEX

**SUP**  
**AIRAC**  
**001 / 2006**  
**10-NOV-2005**

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**EFFECTIVE DATE: 19 JANUARY 2006**

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**1. SUBJECT**

LISBOA TMA - Works in progress on LIS DVOR/DME - Equipment replacement

**2. VALIDITY**

Ending date expected on 08-JUN-2006  
If Ending Date postponement occurs, the new Ending Date will be announced  
by NOTAM

**3. TEMPORARY PROCEDURES DURING THE PERIOD OF LIS DVOR/DME INOPERABILITY:**

**3.1 OPERATIONAL NEEDS :**

- Created a new Reporting Point named **LISGU** on LIS DVOR/DME position 385316N0090946W

**3.2 OPERATIONAL RESTRICTIONS**

**1. ATS Routes Affected by deactivation of LIS DVOR/DME:**

- B60, UN870, UZ18 and Y207  
(AIP-Portugal Pages ENR 3.1-3/4, ENR 3.3-9/10, ENR 3.3-17/18,  
ENR 3.5-5/6, ENR 6.2-1/2, ENR 6.3-1/2 and ENR 6.8-1/2 are included in  
this Supplement).

**2. Procedures Affected by deactivation of LIS DVOR/DME:**

- Lisboa Standard Instrument Departures:

AD 2 - LPPT AD 2.24.7B1 - 1/2 - Standard Departure Instrument SID  
RWY 03-35 suspended, due to temporary changes on Minimum Sector  
Safe Altitude.

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**3.2 OPERATIONAL RESTRICTIONS (cont.)****2. Procedures Affected by deactivation of LIS DVOR/DME (Cont.) :****- Lisboa Standard Instrument Departures:**

AD 2 - LPPT AD 2.24.7C1 - 1/2 - Standard Departure Instrument SID RWY 21 suspended, due to temporary changes on Minimum Sector Safe Altitude.

*(New pages included on this Supplement to be temporarily in AIP-Portugal)*

**- Cascais Standard Instrument Departures:**

AD 2 - LPCS AD 2.24.7A - 1/2 - Standard Departure Instrument SID RWY 17, CAT A and B, temporary changes on Minimum Sector Altitude and Radio Communications Failure..

AD 2 - LPCS AD 2.24.7A - 1/2 - Standard Departure Instrument SID RWY 17, CAT A and B, temporary changes on Minimum Sector Altitude and Radio Communications Failure.

*(New pages included on this Supplement to be temporarily in AIP-Portugal)*

**- Lisboa FMS RNAV Departures:**

AD 2 - LPPT AD 2.24.7D1 - 1/2 - FMS RNAV Departures Routes RWY 03-35 temporary changes on Minimum Sector Altitude and Radio Communications Failure.

AD 2 - LPPT AD 2.24.7E1 - 1/2 - FMS RNAV Departures Routes RWY 21 temporary changes on Minimum Sector Altitude and Radio Communications Failure.

*(New pages included on this Supplement to be temporarily in AIP-Portugal)*

**- Lisboa Standard Instrument Arrivals:**

AD 2 - LPPT AD 2.24.9A1 - 1/2 - Standard Arrival Instrument STAR RWY 03-35 temporary changes on Minimum Sector Altitude.

AD 2 - LPPT AD 2.24.9B1 - 1/2 - Standard Arrival Instrument STAR RWY 21 temporary changes on Minimum Sector Altitude.

*(New pages included on this Supplement to be temporarily in AIP-Portugal)*

**- Lisboa FMS RNAV Arrivals:**

AD 2 - LPPT AD 2.24.9C1 - 1/2 - FMS RNAV Arrival Routes RWY 03-35 temporary changes on Minimum Sector Altitude.

AD 2 - LPPT AD 2.24.9D1 - 1/2 - FMS RNAV Departures Routes RWY 21 temporary changes on Minimum Sector Altitude.

*(New pages included on this Supplement to be temporarily in AIP-Portugal)*

**3.2 OPERATIONAL RESTRICTIONS (cont.)****2. Procedures Affected by deactivation of LIS DVOR/DME (Cont.) :**

- Lisboa Instrument Approach Procedures:

AD 2 LPPT AD 2.24.10A1 - 1/2 - Instrument Approach Chart Lisboa  
ILS RWY 03 temporary changes on Minimum Sector Altitude.

AD 2 LPPT AD 2.24.10A3 - 1/2 - Instrument Approach Chart Lisboa  
ILS 1 RWY 21 temporary changes on Minimum Sector Altitude.

AD 2 LPPT AD 2.24.10B2 - 1/2 - Instrument Approach Chart Lisboa  
ILS 2 RWY 21 temporary changes on Minimum Sector Altitude.

AD 2 LPPT AD 2.24.10B3 - 1 - Instrument Approach Chart Lisboa  
VOR/DME RWY 35 suspended;

AD 2 LPPT AD 2.24.10C1 - 1 - Instrument Approach Chart Lisboa  
NDB RWY 03 .

AD 2 LPPT AD 2.24.10C2 - 1 - Instrument Approach Chart Lisboa  
L RWY 21 suspended.

AD 2 LPPT AD 2.24.11 - 1/2 - Visual Approach Chart Lisboa.

- Lisboa Holding Procedures:

New temporary RNAV Holding Procedures ADSAD, EKMAR,  
RINOR and ETUGO instead of LISBOA DVOR/DME RDL166-DME26,  
LISBOA DVOR/DME RDL047-DME26, LISBOA DVOR/DME RDL225-DME26,  
and LISBOA DVOR/DME RDL275-DME50.

**4. Insert this Supplement pages on the AIP Portugal sub-sections:**

Cover page - AIP Binder

Other pages : ENR and AD Sections

**5. Record entry of this Supplement on AIP Portugal page GEN 0.3.****6. This Supplement contains 70 pages.**

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AIP - PORTUGAL

ENR 3.1 - 3  
30-SEP-2005

Route designator RNP type Name of significant point Co-ordinates	Track MAG VOR RDL	DIST (COP) NM	Upper Limits Lower Limits Airspace classification Minimum flight altitude (ft)	Lateral limits NM	Direction of cruising levels		Remarks Controlling unit Frequency		
					Odd	Even			
<b>B 18</b>  <b>RNP 5</b>  ▲ ESPICHEL "ESP" DVORTAC 38 25 27N 009 11 09W  △ GANSU 38 00 00N 009 49 03W  △ NARTA 36 03 23N 012 33 29W  △ RULET 34 15 06N 014 54 56W  △ RAKUN 33 33 25N 015 46 53W  ▲ PORTO SANTO "SNT" DVOR/DME 33 05 25N 016 21 02W  △ KEKOS 32 26 57N 016 13 38W  ▲ BIMBO 31 25 17N 016 01 58W									
	235° 054°	39	FL195 FL095  Class C  3000	10	↓				
	234° 053°	176							
	235° 053°	158							
	233° 053°	60							
	233° 053°	40							
	358°	39					↑		
	358°	62							
<b>B 47</b>  <b>RNP 5</b>  ▲ RIVRO 40 37 22N 006 43 22W  ▲ VISEU "VIS" DVOR / DME 40 43 24N 007 53 09W  ▲ DIRMA 40 51 06N 009 30 03W									
	281° 101°	53	FL195 FL105 Class C  9000	10	↓	↑	CDR 1, H24, FL195/105 Segment VIS/RIVRO ALTN RTE: (NVS/ZMR) ADORO / CANAR / PRT / DIRMA		
	281° 100°	74							
<b>B 60</b>  <b>RNP 5</b>  △ LISGU 38 53 16N 009 09 46W  △ OLGAR 39 11 00N 007 56 11W  ▲ PORTA 39 19 48N 007 18 09W									
	077°	60	FL195 FL095 Class C  6000	10	↓				
	078°	31							

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30-SEP-2005

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Route designator RNP type Name of significant point Co-ordinates	Track MAG VOR RDL	DIST (COP) NM	Upper Limits Lower Limits Airspace classification Minimum flight altitude (ft)	Lateral limits NM	Direction of cruising levels		Remarks Controlling unit Frequency
					Odd	Even	
<b>G 7 RNP 5</b>							
▲ ELVAR 39 13 10N 007 13 24W	248°	15					
△ BIRBA 39 06 20N 007 30 43W	248°	21	FL195 FL095	10		↓	
△ TAGUX 38 56 44N 007 54 51W	248°	37	Class C 7000				
△ ATECA 38 39 30N 008 37 21W	247°	30					
▲ ESPICHEL "ESP" DVORTAC 38 25 27N 009 11 09W							
<b>G 41 RNP 5</b>							
△ CANAR 41 23 09N 007 28 11W	210° 030°	44	FL195 FL095 Class C	10		↓	CDR 1; H24; FL195/FL095 Segment: CANAR/VIS ALTN RTE on ATC instructions; RTE MAX EXTD 2NM
▲ VISEU "VIS" DVOR/DME 40 43 24N 007 53 09W	209° 029°	69	6000			↑	
▲ FATIMA "FTM" DVOR / DME 39 39 56N 008 29 34W							
<b>G 52 RNP 5</b>							
▲ BEXAL 35 58 00N 011 26 54W	041° 222°	151					
△ LIGRA 38 00 00N 009 35 27W	042° 222°	32	FL195 FL095 Class C	10		↓	
▲ ESPICHEL "ESP" DVORTAC 38 25 27N 009 11 09W	045° 225°	58	6000				
△ MAGUM 39 10 03N 008 23 33W	049° 227°	33					
▲ NISA "NSA" DVORTAC 39 33 53N 007 54 53W	044° 225°	58	FL195 FL095 Class C			↑	
△ PINOX 40 17 26N 007 06 33W	046° 226°	27	9000				
▲ RIVRO 40 37 22N 006 43 22W							

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28-OCT-2005

Route designator RNP type Name of significant point Co-ordinates	Track MAG VOR RDL	DIST (COP) NM	Upper Limits Lower Limits Airspace classification Minimum flight altitude (ft)	Lateral limits NM	Direction of cruising levels		Remarks Controlling unit Frequency
					Odd	Even	
<b>UN 870 (RNP 5)</b>							
▲ BUSEN 38 32 42N 010 00 00W	067°	44	FL460 FL195  Class C	10	↓		CDR 1; H24; FL245/FL195 Segment: BUSEN/MAGUM ALTN RTE on ATC instructions; RTE MAX EXTD 3NM
△ LISGU 38 53 16N 009 09 46W	070°	40					
△ MAGUM 39 10 03N 008 23 33W	067°	20					
△ MOMAS 39 19 09N 008 01 00W	071°	33					
▲ PORLI 39 31 44N 007 21 59W	070°	15					
△ RODAP 39 37 57N 007 03 55W	070°	22					
▲ RAKOD 39 46 51N 006 37 43W							
<b>UN 872 RNP 5</b>							
▲ RALUS 41 56 12N 007 06 59W	211°	37	FL460 FL195  Class C	10	↓		CDR 1; H24; FL245/FL195 Segment CANAR/VIS ALTN RTE on ATC instructions; RTE MAX EXTD 5NM
△ CANAR 41 23 09N 007 28 11W	210°	44					
▲ VISEU "VIS" DVOR / DME 40 43 24N 007 53 09W	209°	19					
△ ABETO 40 25 47N 008 03 23W	208°	50					
▲ FATIMA "FTM" DVOR / DME 39 39 56N 008 29 34W	209°	81					
▲ ESPICHEL "ESP" DVORTAC 38 25 27N 009 11 09W	222° 042°	32	UNL FL195				Segment: BEXAL / ESP NB only AVBL for TFC DEST Lisboa TMA
△ LIGRA 38 00 00N 09 35 27W	222° 041°	151	Class C		↑		
▲ BEXAL 35 58 00N 011 26 54W							

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Route designator RNP type Name of significant point Co-ordinates	Track MAG VOR RDL	DIST (COP) NM	Upper Limits Lower Limits Airspace classification Minimum flight altitude (ft)	Lateral limits NM	Direction of cruising levels		Remarks Controlling unit Frequency
					Odd	Even	
<b>UN 873</b> <b>RNP 5</b>							
▲ BAROK 35 58 00N 010 01 24W							
△ SUNES 37 18 27N 009 00 00W	036° 216°	94	UNL FL195  Class C			↓	<b>CDR 1, H24, FL460/FL195 Segment: BAROK/BIRBA ALTN RTE on ATC instructions; RTE MAX EXTD 5NM.</b>  <b>Segment RODAP/BABOV NB not AVBL for TFC DEP LPPT via ZMR</b>
△ SOTEX 38 17 34N 008 13 12W	036° 217°	70	FL460 FL195  Class C	10	↑		
△ EVURA 38 39 54N 007 55 07W	037° 217°	26					
△ BIRBA 39 06 20N 007 30 43W	040° 220°	33					
▲ PORTA 39 19 48N 007 18 09W	040°	17					
△ RODAP 39 37 57N 007 03 55W	035°	21					
▲ BABOV 39 52 35N 006 52 25W	035°	17					

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Route designator RNP type Name of significant point Co-ordinates	Track MAG VOR RDL	DIST (COP) NM	Upper Limits Lower Limits Airspace classification Minimum flight altitude (ft)	Lateral limits NM	Direction of cruising levels		Remarks Controlling unit Frequency
					Odd	Even	
<b>UZ 9</b> <b>RNP 5</b> △ ORSOS 39 00 00N 010 12 32W △ NARTA 36 03 23N 012 33 29W △ GIKAR 34 09 58N 014 01 48W ▲ BIMBO 31 25 17N 016 01 58W							
	038°	209	UNL FL195 Class C	10	↑		
	039	134					
	038°	193					
<b>UZ 11</b> <b>RNP 5</b> △ DEGUN 33 25 07N 015 39 30W △ ROLAR 34 12 41N 015 12 21W △ VERAM 36 46 21N 013 40 31W							
	032°	53	UNL FL195 Class C	10	↓		
	033°	171					
<b>UZ 13</b> <b>RNP 5</b> △ DEGUN 33 25 07N 015 39 30W △ NARTA 36 03 23N 012 33 29W							
	050°	220	UNL FL195 Class C	10	↓		

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Route designator RNP type Name of significant point Co-ordinates	Track MAG VOR RDL	DIST (COP) NM	Upper Limits Lower Limits Airspace classification Minimum flight altitude (ft)	Lateral limits NM	Direction of cruising levels		Remarks Controlling unit Frequency
					Odd	Even	
<b>UZ 14 RNP 5</b>							
△ NARTA 36 03 23N 012 33 29W	238°	171	UNL FL195	10	↓		
△ ROLAR 34 12 41N 015 12 21W	236°	49	Class C				
△ LIDRO 33 40 03N 015 56 59W							
<b>UZ 15 RNP 5</b>							
△ BABEX 41 02 25N 007 05 02W	186°	44	FL460 FL195 Class C	10	↓	CDR 1,H24, FL245/FL195 Segment: BABEX/PINOX CDR 1, H24, FL250/FL195 Segment: BIRBA / BEJ ALTN RTE on ATC instructions; RTE MAX EXTD 9NM	
△ PINOX 40 17 26N 007 06 33W	199°	48					
▲ PORLI 39 31 44N 007 21 59W	199°	26					
△ BIRBA 39 06 20N 007 30 43W	203°	62					
▲ BEJA "BEJ" VORTAC 38 07 42N 007 55 36W							
<b>UZ 16 RNP 5</b>							
△ PELUS 33 26 43N 017 04 16W	060°	108	FL460 FL195	10	↓		
△ PECKY 34 31 49N 015 20 16W	063°	164	Class C				
△ NARTA 36 03 23N 012 33 29W							
<b>UZ 18 RNP 5</b>							
▲ BEXAL 35 58 00N 011 26 54W	037°	145	UNL FL195	10	↓		
△ GANSU 38 00 00N 009 49 03W	035°	062	Class C				
△ LISGU 38 53 16N 009 09 46W							

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## 3.5.2.3 LISBOA

Route designator RNP type Name of significant point Co-ordinates	Track MAG VOR RDL	DIST (COP) NM	Upper Limits Lower Limits Airspace classification Minimum flight altitude (ft)	Lateral limits NM	Direction of cruising levels		Remarks Controlling unit Frequency
					Odd	Even	
<b>Y 201</b> <b>RNP 5</b>  △ BUSEN 38 32 42N 010 00 00W  ▲ EKMAR 38 33 27N 009 31 17W							
	093°	23	FL245 FL095 Class C  3000	10		↓	
<b>Y 202</b> <b>RNP 5</b>  △ GANSU 38 00 00N 009 19 03W  ▲ EKMAR 38 33 27N 009 31 17W							
	028°	36	FL245 FL095 Class C  3000	10		↓	
<b>Y 203</b> <b>RNP 5</b>  △ LIGRA 38 00 00N 009 35 27W  ▲ EKMAR 38 33 27N 009 31 17W							
	011°	36	FL245 FL095 Class C  3000	10		↓	
<b>Y 204</b> <b>RNP 5</b>  △ NAKOS 38 00 00N 009 20 06W  ▲ EKMAR 38 33 27N 009 31 17W							
	350°	35	FL245 FL095 Class C  3000	10		↓	

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Route designator RNP type Name of significant point Co-ordinates	Track MAG VOR RDL	DIST (COP) NM	Upper Limits Lower Limits Airspace classification Minimum flight altitude (ft)	Lateral limits NM	Direction of cruising levels		Remarks Controlling unit Frequency
					Odd	Even	
<b>Y 205</b> <b>RNP 5</b>  △ TROIA 38 04 24N 008 52 45W  ▲ EKMAR 38 33 27N 009 31 17W							
	319°	42	FL245 FL095 Class C  3000	10		↓	
<b>Y 206</b> <b>RNP 5</b>  △ ESPICHEL "ESP" DVOR/DME 38 25 27N 009 11 09W  ▲ EKMAR 38 33 27N 009 31 17W							
	302°	18	FL245 FL095 Class C  3000	10		↓	
<b>Y 207</b> <b>RNP 5</b>  ▲ FATIMA "FTM" DVOR/DME 39 39 56N 008 29 34W  △ LISGU 38 53 16N 009 09 46W  △ ODLIX 38 40 44N 009 19 02W  ▲ EKMAR 38 33 27N 009 31 17W							
	219°	56	FL245 FL095 Class C	10		↓	
	215°	14	7000				
	238°	12	FL245 FL095 Class C  3000				

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ENR 3.6 - 3

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HLDG ID/FIX/WPT Coordinates	INBD TR (°MAG)	Direction of PTN	MAX IAS (KT)	MNM HLDG LVL FL/FT (MSL)	MAX HLDG LVL FL/FT (MSL)	TIME (MIN)	DIST OUBD	Controlling unit and frequency
1	2	3	4	5		6		7
HORTA/VFL HORTA DVORTAC 383109.90N 0283724.82W	58	LEFT	280KT	FL 150	FL 999	1.5MIN		
HORTA/VFL HORTA DVORTAC 383109.90N 0283724.82W	58	LEFT	230KT	5000 FT ALT	FL 140	1MIN		
HORTA/VFL HORTA DVORTAC 383109.90N 0283724.82W RDL070-DME15 VELAS Holding	250	RIGHT	230KT	5000 FT ALT	FL 090	1MIN		
LAJES/GP LAJES NDB 384659.4N 0270647.3W	336	RIGHT	230KT	4700 FT ALT	FL 140	1MIN		
LAJES/GP LAJES NDB 384659.4N 0270647.3W	0	RIGHT	280KT	FL 150	FL 999	1.5MIN		
LAJES/LM LAJES VOR 384702.2N 0270615.8W	333	RIGHT	230KT	4700 FT ALT	FL 140	1MIN		
LISBOA/LIS RNAV HOLDING ADSAD 382840.7N 0085852.3W Holding Landing RWY 03	346	RIGHT	230KT	4000FT ALT	FL 140		5NM	ADSAD Holding Flyover WYP
LISBOA/LIS RNAV HOLDING ADSAD 382840.7N 0085852.3W Holding Landing RWY 03	346	RIGHT	265KT	FL 150	FL 200		10NM	ADSAD Holding Flyover WYP
LISBOA/LIS RNAV HOLDING RINOR 391237.3N 0084727.7W Holding Landing RWY 21 <i>In Turbulance conditions there is no protection with military area</i>	227	LEFT	230KT	FL 070	FL 120		5NM	RINOR Holding Flyover WYP
LISBOA/LIS RNAV HOLDING EKMAR 383326.6N 0093117.2W Holding Landing RWY 03/21	45	LEFT	230KT	3000FT ALT	FL 140		5NM	EKMAR Holding Flyover WYP
LISBOA/LIS RNAV HOLDING EKMAR 383326.6N 0093117.2W Holding Landing RWY 03/21	45	LEFT	265KT	FL 150	FL 200		10NM	EKMAR Holding Flyover WYP
LISBOA/LIS RNAV HOLDING ETUGO 385224.3N 0101404.2W ETUGO Holding	95	RIGHT	265KT	FL150	FL 280		11NM	ETUGO Holding Flyover WYP
LISBOA/LIS LISBOA DVOR/DME 385315.66N 0090945.74W RDL 166-DME26 ADSAD Holding Landing RWY 03	346	RIGHT	230KT	4000 FT ALT	FL 140	1MIN		<b>TEMPORARY DEACTIVATED</b>

NAV Portugal, E.P.E.

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HLDG ID/FIX/WPT Coordinates	INBD TR (°MAG)	Direction of PTN	MAX IAS (KT)	MNM HLDG LVL FL/FT (MSL)	MAX HLDG LVL FL/FT (MSL)	TIME (MIN)	DIST OUBD	Controlling unit and frequency
1	2	3	4	5		6		7
LISBOA/LIS LISBOA DVOR/DME 385315.66N 0090945.74W RDL047-DME026 RINOR Holding Landing RWY 21. In turbulence conditions there is no protection with military area.	227	LEFT	230KT	FL 070	FL 120	1MIN		
TEMPORARY DEACTIVATED								
LISBOA/LIS LISBOA DVOR/DME 385315.66N 0090945.74W RDL225-DME26 EKMAR Holding Landing RWY 03/21	45	LEFT	230KT	3000 FT ALT	FL 140	1MIN		
TEMPORARY DEACTIVATED								
LISBOA/LIS LISBOA DVOR/DME 385315.66N 0090945.74W RDL225-DME26 EKMAR Holding Landing RWY 03/21	45	LEFT	265KT	FL 150	FL 200	1.5MIN		
TEMPORARY DEACTIVATED								
LISBOA/LIS LISBOA DVOR/DME 385315.66N 0090945.74W RDL166-DME26 ADSAD Holding Landing RWY 03	346	RIGHT	265KT	FL 150	FL 200	1.5MIN		
TEMPORARY DEACTIVATED								
LISBOA/LIS LISBOA DVOR/DME 385315.66N 0090945.74W RDL275-DME50 ETUGO Holding	95	RIGHT	265KT	FL 150	FL 280		13NM	
TEMPORARY DEACTIVATED								
PONTA DELGADA/MGL PONTA DELGADA NDB 374429.46N 0253502.49W	149	RIGHT	230KT	5500 FT ALT	FL 140	1MIN		
PONTA DELGADA/PD PONTA DELGADA L 374406.06N 0254030.18W	139	RIGHT	230KT	4500 FT ALT	FL 140	1MIN		
PONTA DELGADA/VMG PONTA DELGADA DVORTAC 375045.56N 0254529.33W RDL134-DME25 NAVPO Holding 1.5 min. above FL140	314	LEFT	280KT	5500 FT ALT	FL 999	1MIN		
PONTA DELGADA/VMG PONTA DELGADA DVORTAC 375045.56N 0254529.33W 1.5 min. above FL140	161	LEFT	280KT	4500 FT ALT	FL 999	1MIN		
PORTO SANTO/PST PORTO SANTO NDB 330406.63N 0162129.75W PST North Landing RWY 01	162	LEFT	230KT	3000 FT ALT	FL 140	1MIN		
PORTO SANTO/PST PORTO SANTO NDB 330406.63N 0162129.75W PST South Landing RWY 19	18	RIGHT	230KT	3000 FT ALT	FL 140	1MIN		

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NAV Portugal, E.P.E.

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ENR 3.6 - 5

AIRAC SUPP 001-2006 - EFFECT 19-JAN-2006

HLDG ID/FIX/WPT Coordinates	INBD TR (°MAG)	Direction of PTN	MAX IAS (KT)	MNM HLDG LVL FL/FT (MSL)	MAX HLDG LVL FL/FT (MSL)	TIME (MIN)	DIST OUBD	Controlling unit and frequency
1	2	3	4	5		6		7
PORTO SANTO/SNT PORTO SANTO DVOR/DME 330525.48N 0162102.28W RDL005-DME06 SNT North Landing RWY 19	185	LEFT	230KT	3000 FT ALT	FL 140	1MIN		
PORTO SANTO/SNT PORTO SANTO DVOR/DME 330525.48N 0162102.28W RDL185-DME08 SNT South Landing RWY 01	5	RIGHT	230KT	3000 FT ALT	FL 140	1MIN		
PORTO SANTO/SNT PORTO SANTO DVOR/DME 330525.48N 0162102.28W RDL273-DME40 Holding West	93	RIGHT	230KT	FL 100	FL 140	1MIN		
PORTO SANTO/SNT PORTO SANTO DVOR/DME 330525.48N 0162102.28W RDL273-DME40 Holding West	93	RIGHT	280KT	FL 150	FL 410	1.5MIN		
PORTO/PG PORTO L 410441.12N 0083811.55W	354	LEFT	230KT	3000 FT ALT	FL 120	1MIN		
PORTO/POR PORTO NDB 412053.34N 0084229.34W	174	RIGHT	280KT	FL 150	FL 999	1.5MIN		
PORTO/POR PORTO NDB 412053.34N 0084229.34W	174	RIGHT	230KT	3000 FT ALT	FL 140	1MIN		
PORTO/PRT PORTO DVOR/DME 411622.79N 0084116.19W RDL354-DME03 PRT North Landing RWY 17.	174	RIGHT	230KT	3000 FT ALT	FL 140	1MIN		
PORTO/PRT PORTO DVOR/DME 411622.79N 0084116.19W RDL174-DME12 PRT South Landing RWY 35	354	LEFT	230KT	3000 FT ALT	FL 140	1MIN		
PORTO/PRT PORTO DVOR/DME 411622.79N 0084116.19W	174	RIGHT	265KT	FL 150	FL 180	1.5MIN		
PORTO/PRT PORTO DVOR/DME 411622.79N 0084116.19W RDL270-DME53 IXUVA Holding	90	RIGHT	265KT	FL 150	FL 280		12NM	
SANTA MARIA/SMA SANTA MARIA NDB 365948.12N 0251031.86W Landing RWY 18	2	RIGHT	230KT	3500 FT ALT	FL 140	1MIN		
SANTA MARIA/VSM SANTA MARIA VOR/DME 365746.46N 0250959.01W VSM North Landing RWY 36	207	RIGHT	230KT	3500 FT ALT	FL 140	1MIN		
SANTA MARIA/VSM SANTA MARIA VOR/DME 365746.46N 0250959.01W VSM South Landing RWY 18	337	LEFT	230KT	3500 FT ALT	FL 140	1MIN		

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AIRAC SUPP 001-2006 - EFFECT 19-JAN-2006

HLDG ID/FIX/WPT Coordinates	INBD TR (°MAG)	Direction of PTN	MAX IAS (KT)	MNM HLDG LVL FL/FT (MSL)	MAX HLDG LVL FL/FT (MSL)	TIME (MIN)	DIST OUBD	Controlling unit and frequency
1	2	3	4	5		6		7
SANTA MARIA/VSM SANTA MARIA VOR/DME 365746.46N 0250959.01W VSM South Landing RWY 18	337	LEFT	280KT	FL 150	FL 999	1.5MIN		

**3.6.2 Lisboa FIR - Table of transition altitudes and levels**

Location	Transition Altitude (FT)	QNH							
		<942.2	942.2 to 959.4	959.5 to 977.1	977.2 to 995.0	995.1 to 1013.2	1013.3 to 1031.6	1031.7 to 1050.3	>1050.3
		Transition Level							
Faro AD	4000	75	70	65	60	55	50	45	40
Lisboa AD	4000	75	70	65	60	55	50	45	40
Madeira AD	5000	85	80	75	70	65	60	55	50
Porto AD	4000	75	70	65	60	55	50	45	40
Porto Santo AD	5000	85	80	75	70	65	60	55	50

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AIRAC AIP SUPP 001-2006 - EFFECT. 19-JAN-2006

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

Name of station (VAR) (VOR Declination)	ID	Frequency/ Channel	Hours of operation	Coordinates	ELEV DME antenna	Remarks
1	2	3	4	5	6	7
ARRUDA NDB	LAR	382 KHZ	H24	38 59 39.59N 009 02 25.40W		205° MAG - 12.8NM from LPPT THR RWY 21 Coverage : 50NM
BEJA VORTAC	BEJ	115.80 MHZ TACAN : CH 105X	H24	38 07 42N 007 55 36W		2.1NM from THR RWY 19R Coverage : 200NM / FL600
CAPARICA NDB	CP	389 KHZ	H24	38 38 32.25N 009 13 17.46W		Coverage: 250NM
CASCAIS DVOR/DME	CAS	114.30MHZ 1177MHZ DME CH 90X	H24	38 44 54N 009 21 43W		Coverage : 60NM Not usable : 030°/060° byd 20NM blw FL100 290°/350° byd 10NM blw FL100
ESPICHEL TACAN	ESP	1159 MHZ CH 72X	H24	38 25 27.39N 009 11 08.81W	648FT	Coverage : 203°/315° - 200NM FL500 315°/203° - 80NM FL500 Not usable : 060°/080° blw 4000FT byd 10NM
ESPICHEL DVOR	ESP	112.50 MHZ	H24	38 25 27.39N 009 11 08.81W		Coverage: 203°/315° - 200NM FL500 315°/203° - 80NM FL500 Not usable : 060°/080° blw 4000FT byd 10NM
FARO DVOR/DME	VFA	112.80 MHZ 1162 MHZ DME : CH 75X	H24	37 00 48.68N 007 58 30.03W	50FT	275°MAG-0.44NM from ARP Coverage : 200NM FL500 Not usable : 290°/070° blw 6000FT byd 40NM
FÁTIMA DME	FTM	1169 MHZ CH 82X	H24	39 39 57.88N 008 29 35.57W	686FT	
FÁTIMA DVOR	FTM	113.50 MHZ	H24	39 39 56.45N 008 29 33.54W		Coverage: 60NM FL500 Not usable : 210° / 230° Beyond      Below NM      FT AMSL ----- 35      4000 40      5000 47      6000
FLORES Flores Island (Açores) DVOR	FRS	113.30 MHZ	H24	39 27 12.92N 031 12 37.50W		Not usable : 325°/345° blw 16000FT byd 40NM
FLORES Flores Island (Acores) DME	FRS	1167 MHZ CH :80X	H24	39 27 12.91N 031 12 37.56W		
FUNCHAL DME	FUN	1020 MHZ CH 59X	H24	32 44 49.34N 016 42 20.47W	504FT	Coverage : 200NM FL500 Not usable : 240°/310° within 20NM 240°/310° byd 20NM blw 9000FT

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AIRAC AIP SUPP 001-2006 - EFFECT. 19-JAN-2006

Name of station (VAR) (VOR Declination)	ID	Frequency/ Channel	Hours of operation	Coordinates	ELEV DME antenna	Remarks
1	2	3	4	5	6	7
FUNCHAL DVOR	FUN	112.20 MHZ	H24	32 44 49.81N 016 42 19.63W		238° MAG - 3.9NM from THR RWY 23 Coverage : 200NM FL500 Not usable : 240°/310° within 20NM 240°/310° byd 20NM blw 9000FT
GRACIOSA Graciosa Island (Açores) L	GC	428 KHZ	H24	39 05 37.78N 028 01 50.90W		Coverage : 25NM
HORTA Faial Island (Açores) DVORTAC	VFL	112.70 MHZ 1161 MHZ TACAN : CH 74X	H24	38 31 09.90N 028 37 24.82W	485FT	284° MAG -3.69NM from THR RWY28 Coverage : 240NM - FL600 Tacan not usable : 010°/020° byd 10NM blw 10000FT 045°/080° byd 30NM blw 5000FT 080°/100° byd 28NM blw 5500FT 100°/140° byd 15NM blw 10000FT 140°/150° byd 40NM blw 3000FT 280°/010° byd 10NM blw 10000FT DVOR not usable : 010°/020° byd 10NM blw 10000FT 080°/140° byd 15NM blw 10000FT 280°/010° byd 10NM blw 10000FT <b>DVOR not usable below 5000FT</b>
HORTA Faial Island (Açores) L	HT	360KHZ	H24	38 31 11.50N 028 37 46.18W		284° MAG - 3.69NM from THR RWY 28 Coverage: 25NM
HORTA Faial Island (Açores) NDB	FIL	380 KHZ	H24	38 31 21.04N 028 41 09.16W		286° MAG - 1NM from THR RWY 28 Coverage: 250NM
LAJES Terceira Island (Açores) VOR (MAG. Variation: 14°W)	LM	112.30 MHZ	H24	38 47 02.2N 027 06 15.8W		040° MAG - 1.4NM from ARP Coverage : 100NM Not usable : 215°/240° byd 35NM blw 9000FT 241°/275° byd 20NM at all altitudes  Maintenance : WED 08:00/12:00
LAJES Terceira Island (Açores) TACAN	LAJ	CH 45X	H24	38 42 48.0N 027 06 55.5W	1828FT	3.3NM to field Coverage: 250NM Not usable: 270°/315° byd 40NM blw 7000FT Maintenance : FRI 08:00/10:00
LISBOA DME	LIS	1182 MHZ CH 95X	H24	38 53 14.83N 009 05 50.87W	1142FT	355° MAG - 6.178NM from THR RWY17 Coverage : 80NM FL500
LISBOA DVOR	LIS	114.80 MHZ	H24	38 53 15.66N 009 05 50.87W		355° MAG - 6.178NM from THR RWY17 Coverage : 80NM FL500
LISBOA L	LO	401 KHZ	H24	38 51 11.34N 009 05 50.87W		3.95NM from THR RWY 21 Coverage: 25NM
MONTE REAL NDB	MTL	336 KHZ	H24	39 54 27.89N 008 53 00.75W		3.9NM from LPMR THR RWY 19 Coverage : 150NM

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Name-code designator	Coordinates	ATS route or other route			Area / Remarks
		ATS route	STAR	SID	
1	2	3			4
ERLEX	40 41 34N 008 46 19W		LPPR 17/35	LPPR 17/35	TMA LPPR
ERPES <i>RVSM ENTRY / EXIT</i>	400000N 0150000W	UZ22; UZ25			BDRY FIR LISBOA / SANTA MARIA
ERTIS	37 25 00N 007 36 53W	Z222; Y105			TMA LPFR
ESAPO	41 57 47N 006 45 00W				BDRY FIR LISBOA / MADRID
ETROX	36 24 09N 024 01 28W	H104	LPAZ 18/36	LPAZ 18/36	TMA LPAZ
ETUGO	38 52 24N 010 14 04W				Contingency Holding to LPPT
EVURA	383954N 0075507W	R72; UN726; UN873			
FUNOR	32 52 01N 016 38 08W		LPMA 05/23	LPPS 01/19	
FUSUL	32 36 05N 016 39 43W		LPMA 05/23		
GAIOS	38 16 32N 008 32 35W	A44; Y210	LPPT 03/35	LPPT 03/35 LPPT 21	TMA LPPT
GALPA	342353N 0144349W	UN728; UN745 UN975			
GANBA	41 16 23N 009 03 45W		LPPR 17/35	LPPR 17/35	TMA LPPR
GANSU	38 00 00N 009 49 03W	B18; UN975; Y202; UZ18	LPPT 03/35	LPPT 03/35 LPPT 21	TMA LPPT
GENRO	37 11 35N 007 36 53W	Y105; Y106	LPFR 28		TMA LPFR
GIKAR	34 09 58N 014 01 48W	UZ9; UQ11			
GIMAL	36 45 52N 008 00 21W	Y 103	LPFR 10/28		TMA LPFR
GINSU	36 17 33N 027 38 52W	H105	LPAZ 18/36	LPAZ 18/36	TMA LPAZ
GOMOS	37 00 48N 030 03 26W	H106	LPAZ 18/36	LPAZ 18/36	TMA LPAZ
GUNTI <i>RVSM ENTRY / EXIT</i>	390000N 0150000W	UZ21; UZ23			BDRY FIR LISBOA / SANTA MARIA
HIDRA	443000N 0130000W				
IBERO	41 20 44N 007 55 11W	A43;	LPPR 17/35	LPPR 17/35	
IBIDO	405305N 0101112W	UZ27 UN728			
INBOX	38 22 06N 033 21 49W	H131			TMA LPAZ
INBUL	38 29 44N 030 00 00W	H131			
IRKID <i>RVSM ENTRY / EXIT</i>	335530N 0180409W	UL600; W3		LPMA 05/23	BDRY FIR LISBOA / SANTA MARIA
IRSAN	33 10 00N 016 30 16W	UL600; W3	LPMA 05/23 LPPS 01/19		

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Name-code designator	Coordinates	ATS route or other route			Area / Remarks
		ATS route	STAR	SID	
1	2	3			4
IXUVA	41 11 04N 009 51 09W				Contingency Holding to LPPR
KEKOS	32 26 57N 016 13 38W	B18	LPPS 01/19		TMA LPMA
KOKER	39 54 21N 033 44 02W	H142			TMA LPAZ
KOLIT	40 32 55N 033 23 21W	H141			TMA LPAZ
KOMUT <i>RVSM ENTRY / EXIT</i>	380000N 0150000W	UZ20			BDRY FIR LISBOA / SANTA MARIA
KOPAS <i>RVSM ENTRY / EXIT</i>	440000N 0130000W				BDRY SANTA MARIA / MADRID
LADOX	38 56 50N 028 01 16W	H124			MCTA LPLA
LAMDI	391221N 0105754W	UN729			
LATRU	370000N 0100000W				
LIDRO	33 40 03N 015 56 59W	R1; UN741; UZ14	LPMA 05/23 LPPS 01/19	LPPS 01/19	TMA LPMA
LIGRA	38 00 00N 009 35 27W	G52; UN872; Y203	LPPT 03/35	LPPT 21 LPPT 03	TMA LPPT
LISGU	38 53 16N 009 09 46W	B60; UN870; UZ18; Y207			
LUKAL	41 15 11N 032 21 21W	H125			TMA LPAZ
LUKIT	40 11 49N 030 00 00W	H125			
LULAS	40 53 59N 009 16 52W		LPPR 17/35	LPPR 17/35	
LUTAK <i>RVSM ENTRY / EXIT</i>	370000N 0150000W	UZ19			BDRY FIR LISBOA / SANTA MARIA
MABUT	32 43 04N 016 35 32W			LPMA 05/23	
MADAT	32 09 43N 017 05 07W	R1	LPMA 05/23 LPPS 01/19	LPMA 05/23 LPPS 01/19	TMA LPMA
MAGUM	39 10 03N 008 23 33W	UN745; UN870; UP600; UZ7; UZ218; G52; W7	LPPT 21	LPPT 21	
MALIS	41 51 20N 007 36 17W	G/UG414			TMA LPPR BDRY FIR LISBOA / MADRID
MANEL	38 39 00N 008 56 50W			LPPT 21	
MANIK	40 41 31N 008 36 58W	A5	LPPR 17/35	LPPR 17/35	TMA LPPR
MANOX <i>RVSM ENTRY / EXIT</i>	361140N 0152325W				BDRY FIR LISBOA / SANTA MARIA
MAPOR	41 36 51N 008 03 30W	G414	LPPR 17/35		
MARIM	37 25 00N 007 50 28W	Z1; W13	LPFR 28		TMA LPFR
MARUM	363720N 0132616W	UZ8			

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Name-code designator	Coordinates	ATS route or other route			Area / Remarks
		ATS route	STAR	SID	
1	2	3			4
MIMBO	413415N 0112238W	UZ29			
MINTA	37 07 44N 007 23 00W	R47;UN747	LPFR 10/28	LPFR 10/28	TMA LPFR BDRY FIR LISBOA / MADRID
MIPRU	38 16 25N 026 21 53W	H113	LPPD 12/30		MCTA LPLA
MOMAS	39 19 09N 008 01 00W	UN870; Y213; Z/UZ219		LPPT 03/35 LPPT 21	TMA LPPT
MONIS	32 49 13N 016 22 52W		LPPS 01/19		
MONUR	38 38 30N 008 59 48W			LPPT 03/35	
MORAS	39 09 50N 008 01 07W	B60		LPPT 03/35 LPPT 21	TMA LPPT
MOSEN	41 47 12N 006 33 39W	W/UW106; UZ218			BDRY FIR LISBOA / MADRID
MUDOS	433000N 0130000W				
NAKOS	38 00 00N 009 20 04W	UZ4; Y204; Y208; W8		LPPT 03 LPPT 21	TMA LPPT
NARBO	42 08 23N 008 13 42W	R72;UN726			TMA LPPR BDRY FIR LISBOA / MADRID
NARTA	36 03 23N 012 33 29W	B18; R47; UN745;UZ16 UN747;UN975; UZ13; UZ14;UZ9		LPFR 10/28	
NASAS	361932N 0125825W	UN729			
NAVIX <i>RVSM ENTRY / EXIT</i>	353114N 0161404W	T16			BDRY FIR LISBOA / SANTA MARIA
NAVPO	37 37 16N 025 18 59W		LPPD 12/30	LPPD 12/30 LPAZ 18/36	
NEGRI	385243N 0132416W	UZ21			
NELSO <i>RVSM EXIT</i>	314058N 0172725W	UN741; R1			BDRY FIR LISBOA/ SANTA MARIA / CANARIAS
NETOS	411827N 0061640W				TCP LISBOA / MADRID ACC
NIDUL	32 21 55N 017 21 11W	Z/UZ 220	LPMA 05/23	LPMA 05/23	TMA LPMA
NIKAV	33 20 55N 016 52 25W	; W3	LPMA 05/23 LPPS 01/19	LPPS 01/19	TMA LPMA
NINOS	410747N 0064638W	UN976			BDRY FIR LISBOA / MADRID
NOTMA	38 48 45N 028 03 22W	H153	LPHR 10/28	LPHR 10/28	MCTA LPLA
OBESA	363926N 0141445W	UN749			
ODEMI	37 29 51N 008 23 02W	A5; Y101	LPFR 10/28	LPFR 10/28	TMA LPFR
ODLIX	38 40 44N 009 19 02W	Y207	LPPT 03/21		

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Name-code designator	Coordinates	ATS route or other route			Area / Remarks
		ATS route	STAR	SID	
1	2	3			4
OGADU	38 31 05N 028 50 08W		LPHR 10/28		
OLDEK	38 18 56N 028 26 21W			LPHR 10/28	
OLGAR	391100N 0075611W	B60; R72			
ORSOS	390000N 0101232W	UN866; UZ9		LPPT 03/35	
ORTIS	312425N 0163325W	G851; UN728; UP621; UN975;UZ8			BDRY FIR LISBOA / CANARIAS
ORTOP	36 01 36N 007 23 00W	A5; N/UN726		LPFR 10/28	BDRY FIR LISBOA / MADRID CASABLANCA
OSLAD	35 58 00N 008 18 51W	R724; UM188		LPFR 10/28	BDRY FIR LISBOA / CASABLANCA
PARAV	405651N 0115124W	UZ27			
PASAS <i>RVSM ENTRY / EXIT</i>	450000N 0130000W				BDRY FIR SANTA MARIA / MADRID
PECKY	34 31 49N 015 20 16W	UN741; R1; UZ16			
PELUS	332643N 0170416W	UZ16; UL600 UN749			
PESAS	37 02 12N 007 23 00W	UN858			TMA LPFR BDRY FIR LISBOA / MADRID
PESUL	40 52 55N 008 06 54W	UN726; W2	LPPR 17/35	LPPR 17/35	TMA LPPR
PETEK	424044N 0120000W				BDRY FIR LISBOA / MADRID
PIGOR	392802N 0134917W	UZ22 ; UZ23; T14			
PINOX	401726N 0070633W	UZ15; G52; UN745			
PIPAS	41 43 01N 008 11 29W		LPPR 17/35		
PIREN	36 50 00N 007 23 00W	W1; UZ5			TMA LPFR BDRY FIR LISBOA / MADRID
POBAR	32 57 51N 016 09 53W			LPMA 05/23	
POBOD	39 38 28N 008 15 59W	Z/UZ 221		LPPT 03 LPPT 21	
PODEL	37 37 01N 025 41 59W			LPPD 30	
PORLI	393144N 0072159W	UN870; UZ15		LPPT 21	BDRY FIR LISBOA / MADRID
PORTA	391948N 0071809W	B60; UN873			BDRY FIR LISBOA / MADRID
RAKOD	394651N 0063743W	UL14; UN870			TCP FIR LISBOA / MADRID
RAKUN	33 33 25N 015 46 53W	B18	LPPS 01/19	LPPS 01/19	TMA LPMA
RALUS	415612N 0070659W	UN872; W/UW106			BDRY FIR LISBOA / MADRID

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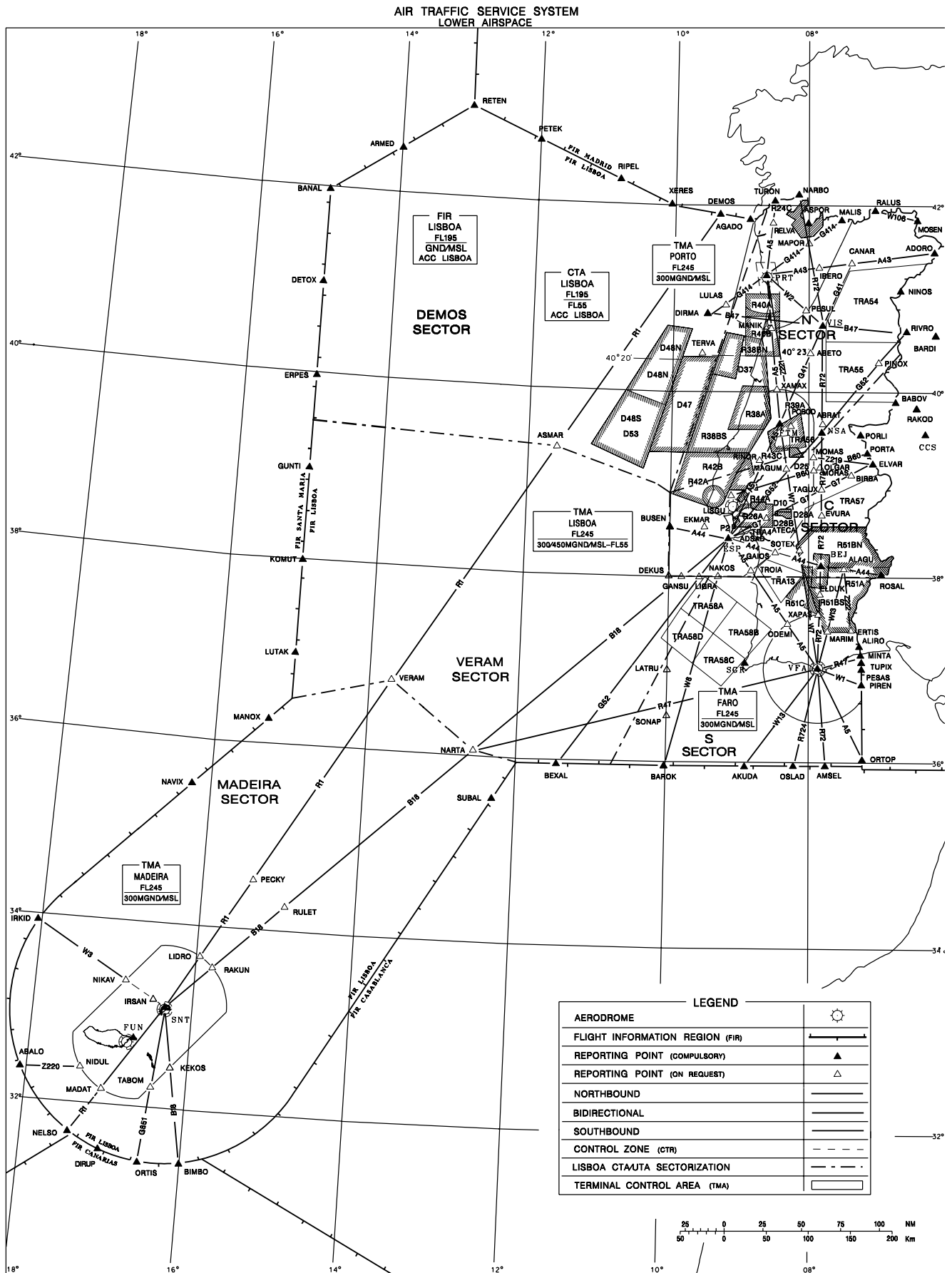
Name-code designator	Coordinates	ATS route or other route			Area / Remarks
		ATS route	STAR	SID	
1	2	3			4
REDSO	37 38 53N 025 47 43W			LPPD 12	
REGLA	38 51 19N 026 08 20W	H121			MCTA LPLA
RELVA	41 51 10N 008 35 51W	A5	LPPR 17/35		
RETEN <i>RVSM ENTRY / EXIT</i>	430000N 0130000W				BDRY FIR SANTA MARIA / MADRID
RINOR	39 12 37N 008 47 28W	Y212; Y213	LPPT 21		
RIPEL	421659N 0104858W	UP621			BDRY FIR LISBOA MADRID
RIVRO	403722N 0064322W	B47;G52; UM191;UN745			BDRY FIR LISBOA / MADRID
RODAP	393757N 0070355W	UN870; UN873; UN979			TCP FIR LISBOA MADRID
RODAS	37 46 21N 025 59 34W			LPPD 12	
RODIL	38 04 44N 027 36 24W	H101			
ROLAR	341241N 0151221W	UZ11; UZ14			
ROSAL	380117N 0070605W	A44; UM744			BDRY FIR LISBOA / MADRID
RULET	341506N 0145456W	B18; UN745; UN975			
SIPRU	39 10 48N 027 53 22W	H125			MCTA LPLA
SOLGI	38 37 30N 028 01 58W	H115; H123			MCTA LPLA
SOMUL	38 13 21N 027 19 01W	H114			
SONAP	363000N 0100000W				
SOPOP	402624N 0122312W	UZ25; T12			
SOTEX	38 17 34N 008 13 12W	UN873; UP600; UZ223; W7		LPFR 28	
SUBAL	353247N 0121845W				BDRY FIR LISBOA / CASABLANCA
SUNES	371827N 0090000W	UN873			
SUPIK	37 55 15N 026 03 34W			LPPD 12	
TABAX	380926N 0134457W	UZ20; T14			
TABOM	32 13 32N 016 27 27W	G851		LPMA 05/23 LPPS 01/19	TMA LPMA
TAGUX	385644N 0075451W	G7; UN726; R72; UN975			
TELMU	353816N 0143150W	UP621; UN741			

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Name-code designator	Coordinates	ATS route or other route			Area / Remarks
		ATS route	STAR	SID	
1	2	3			4
TENKO	304324N 0185318W	UN749			
TERVA	402500N 0093528W	UN866			
TIDVI	38 07 27N 026 09 05W			LPPD 12	
TIMTO	38 23 16N 027 19 17W	H115			
TROIA	38 04 24N 008 52 45W	A5; Y205; Y209	LPPT 21	LPPT 03 LPPT 35 LPPT 21	TMA LPPT
TUNAV	391854N 0112225W	UN728			
TUPIX	37 04 34N 007 23 00W		LPFR 10	LPFR 28	BDRY FIR LISBOA / MADRID TMA LPFR
TURON	42 04 05N 008 33 48W	A5; UP600		LPPR 17/35	TMA LPPR BDRY FIR LISBOA / MADRID
UBESO	364451N 0074850W				
ULTEM	212946N 0294800W				
USALU	37 13 20N 008 18 01W	Y 101; Y 102	LPFR 10		TMA LPFR
VABEM	363257N 0131922W	UN728/UP615			
VAGAR	38 30 07N 009 29 56W			LPPT 03/35	
VEDEL	395127N 0124012W	UZ23			
VELAS	38 39 32N 028 21 31W		LPHR 10/28		
VERAM	364621N 0134031W	UN741; R1; UZ11 T14			
XAMAX	40 01 52N 008 32 10W	A5		LPPT 03/35 LPPT 21	TMA LPPT
XANEL	392411N 0121213W	UN749			
XAPAS	37 35 50N 007 57 00W	R72; Y102	LPFR 10	LPFR 10/28	TMA LPFR
XERES	420126N 0100405W	UN 749; UP615			BDRY FIR LISBOA / MADRID
XERON	32 22 53N 016 56 37W		LPMA 05/23	LPMA 05/23	

ENR 6.2-1



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