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LPPC FIR - MILITARY EXERCISE REAL THAW 2023

1. PURPOSE

With effect from February 27th to March 09th, 2023, the REAL THAW 2023 (RT23) MILITARY EXERCISE will take place in Portuguese airspace. REAL THAW 2023 will take place at Airbase 11 LPBJ (Beja), where the majority of the assets will be based and from where missions will be flown simulating a Deployable Operating Base, towards assigned airspace. Air operations will be mainly developed in the Southwest part of Portugal.

2. AIRSPACE

REAL THAW 2023 will take place in the following areas (see Appendix 1):

APOLO

412305N 0062327W-ALONG PORTUGUESE/SPANISH BORDER UNTIL 395404N 0065404W-395358N
0074506W-404352N 0074505W-411804N 0072233W-412305N 0062327W

GND - FL280

AQUARIUS

394000N 0082000W-394000N 0080000W-392000N 0074500W-391825N 0074500W-391825N 0082130W-
392301N 0082130W-392301N 0082658W-392533N 0082941W-393055N 0082705W-394000N 0082000W

GND - FL140

JUPITER

395400N 0074500W-395337N 0065359W-ALONG PORTUGUESE/SPANISH BORDER UNTIL 394000N
0070150W-394000N 0074500W-395400N 0074500W

GND - FL245

TAURUS

394000N 0080000W-394000N 0073200W-ALONG PORTUGUESE/SPANISH BORDER UNTIL 390600N
0070500W-385100N 0074500W-392000N 0074500W-394000N 0080000W

GND - FL190

TIGER 1L

373000N 0095500W-373000N 0083600W-372600N 0083000W-370000N 0083000W-364045N 0083415W-
360500N 0091000W-360500N 0111000W-373000N 0095500W (EXCEPT AREA WITH 9.3KM RADIUS
CENTRED AT 370858N 0083502W, GND-5000FT AGL, PORTIMÃO AD-LPPM)

SFC - FL200

TIGER 1H

373000N 0095500W-373000N 0083600W-372600N 0083000W-370000N 0083000W-364045N 0083415W-
360500N 0091000W-360500N 0111000W-373000N 0095500W

SFC - FL430

TIGER 2

380000N 0123000W-380000N 0105000W-373000N 0105500W-360500N 0111000W-360500N 0123000W-380000N 0123000W
SFC - FL290

TIGER 3

380000N 0123000W-380000N 0080000W-360500N 0080000W-360500N 0123000W-380000N 0123000W
FL430 - UNL

TIGER 4

364000N 0083500W-ALONG FARO TMA BORDER UNTIL 362500N 0080000W-360500N 0080000W-360500N 0091000W-364000N 0083500W
SFC - FL210

TIGER 5

390600N 0070500W-ALONG PORTUGUESE/SPANISH BORDER UNTIL 374000N 0072800W- 375500N 0073700W-381000N 0074500W-385100N 0074500W-390600N 0070500W
GND-FL310 (COMAO: GND-FL140)

TIGER 6

385100N 0074500W-381500N 0074500W-381500N 0081337W-382055N 0081604W-383255N 0080256W-384400N 0080300W-385100N 0074500W (EXCEPT AREA WITH 9.3KM RADIUS CENTRED AT 383147N 0075331W, GND-5000FT AGL, ÉVORA AD-LPEV)
GND-FL200 (COMAO: GND-FL140)

TIGER 7L

380000N 0105000W-380000N 0090000W-374000N 0085200W-373000N 0083600W-373000N 0105500W-380000N 0105000W
SFC - FL190

TIGER 7H

380000N 0105000W-380000N 0090000W-374000N 0085200W-373000N 0083600W-373000N 0105500W-380000N 0105000W
SFC - FL430

TIGER 8L

373000N 0105500W-373000N 0095500W-360500N 0111000W-373000N 0105500W
SFC - FL250

TIGER 8H

373000N 0105500W-373000N 0095500W-360500N 0111000W-373000N 0105500W
SFC - FL430

TIGER 9

380000N 0090000W-374000N 0085200W-373000N 0083600W-373000N 0095500W-380000N 0090000W
SFC - FL140

TIGER NORTH

382055N 0081604W-381500N 0081337W-381500N 0074500W-381000N 0074500W-375500N 0073700W-375500N 0082500W-374000N 0085200W-380000N 0090000W-382055N 0081604W
SFC - FL140

TIGER SOUTH

375500N 0082500W-375500N 0073700W-374000N 0072800W-ALONG PORTUGUESE/SPANISH BORDER
UNTIL 373000N 0072900W-372600N 0083000W-373000N 0083600W-374000N 0085200W-375500N
0082500W
SFC - FL090

D10

384915N 0085320W-384915N 0084050W-384437N 0084050W-384355N 0084305W-384355N 0084835W-
384544N 0085320W-384915N 0085320W
GND-FL240

T2 AAR N

380000N 0123000W-380000N 0113000W-370000N 0113000W-370000N 0123000W-380000N 0123000W
FL180 OR FL230

T2 AAR S

370000N 0123000W-370000N 0113000W-360500N 0113000W-360500N 0123000W-370000N 0123000W
FL180 OR FL230

T2 AEW

44.4KM RADIUS CENTRED AT 370000N 0120000W
FL290

REAL THAW 2023 will use the following transit corridors (TC):

9.3KM WIDTH	
TC61 L	384530N 0075818W - 391930N 0081615W GND - 2000 FT AMSL
TC61 H	384530N 0075818W - 391930N 0081615W GND - 5000 FT AMSL
3.7KM WIDTH	
TC10	(A)380448N 0075554W-(B)385018N 0081130W-(C)385541N 0082724W-(D)385324N 0085212W-(E)384801N 0085214W-(F)384654N 0084148W-(G)384824N 0081642W- (H)381130N 0080700W 1000 FT AMSL - 3000 FT AMSL The following altitudes are to be used within TC10: Between points A-C, 1000 FT AMSL/3000 FT AMSL. Between points D-E, 1000 FT AMSL/2000 FT AMSL. Between points F-H, 1000 FT AMSL/3000 FT AMSL.
MASS DIVERT ROUTES (MDR)	
MDR 1	382200N 0081400W-383500N 0083500W 3000 FT AMSL - 5000 FT AMSL
MDR2	402346N 0083005W-393244N 0083144W-384440N 0080300W FL100-FL110

MDR3	402346N 0085905W-375822N 0092417W FL170-FL190
MDR 4 (SPANISH AIRSPACE)	382200N 0071600W-383327N 0064643W FL100-FL120
MDR 5A (SPANISH AIRSPACE)	380117N 0070605W-374007N 0061754W-372539N 0054545W-372232N 0053123W FL280-FL290
MDR 5B (SPANISH AIRSPACE)	380117N 0070605W-374007N 0061754W-372539N 0054545W-365705N 0054104W FL280-FL290
MDR 6	404400N 0083005W-395400N 0074500W FL120-FL140

3. REAL THAW 2023 PLANNING SCHEDULE

Date	Time span / OPS Scenario	Areas and Corridors
27 FEB	10:15 - 13:30 (SHADOW wave)	TIGER NORTH, TIGER SOUTH, TIGER 5, TIGER 6, TAURUS, AQUARIUS, D10, TC10 and TC61 L/H
	14:30 - 17:00 (COMAO wave)	TIGER NORTH, TIGER SOUTH, TIGER1L, TIGER1H, TIGER 2, TIGER 3, TIGER 4, TIGER 5, TIGER 6, TIGER 7L, TIGER 7H, TIGER 8L, TIGER 8H, TAURUS, AQUARIUS, JUPITER, APOLO and TC61 L/H
28 FEB (continuous VUL-SHADOW wave)	09:00 - 23:59	TIGER NORTH, TIGER SOUTH, TIGER 5, TIGER 6, TAURUS, AQUARIUS, D10, TC10 and TC61 L/H
01 MAR (continuous VUL-SHADOW wave)	09:00 - 23:00	TIGER NORTH, TIGER SOUTH, TIGER 5, TIGER 6, TAURUS, AQUARIUS, D10, TC10 and TC61 L/H
02 MAR	09:00 - 13:30 (SHADOW wave)	TIGER NORTH, TIGER SOUTH, TIGER 5, TIGER 6, TAURUS, AQUARIUS, D10, TC10 and TC61 L/H
	14:45 - 17:00 (COMAO wave)	TIGER NORTH, TIGER SOUTH, TIGER1L, TIGER1H, TIGER 2, TIGER 3, TIGER 4, TIGER 5, TIGER 6, TIGER 7L, TIGER 7H, TIGER 8L, TIGER 8H, TAURUS, AQUARIUS, JUPITER, APOLO and TC61 L/H
03 MAR	10:15 - 13:30 (SHADOW wave)	TIGER NORTH, TIGER SOUTH, TIGER 5, TIGER 6, TAURUS, AQUARIUS, D10, TC10 and TC61 L/H
	14:30 - 17:00 (COMAO wave)	TIGER NORTH, TIGER SOUTH, TIGER1L, TIGER1H, TIGER 2, TIGER 3, TIGER 4, TIGER 5, TIGER 6, TIGER 7L, TIGER 7H, TIGER 8L, TIGER 8H, TAURUS, AQUARIUS, JUPITER, APOLO and TC61 L/H

Date	Time span / OPS Scenario	Areas and Corridors
06 MAR	10:15 - 13:30 (SHADOW wave)	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 5, TIGER 6, TIGER 9, TAURUS, AQUARIUS, D10, TC10 and TC61 L/H
	13:30 - 14:30	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 9
	14:30 - 17:00 (COMAO wave)	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 1H, TIGER 2, TIGER 3, TIGER 4, TIGER 5, TIGER 6, TIGER 7L, TIGER 7H, TIGER 8L, TIGER 8H, TAURUS, AQUARIUS, JUPITER, APOLO and TC61 L/H
07 MAR	10:15 - 13:30 (SHADOW wave)	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 5, TIGER 6, TIGER 9, TAURUS, AQUARIUS, D10, TC10 and TC61 L/H
	13:30-14:30	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 9
	14:30 - 17:00 (COMAO wave)	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 1H, TIGER 2, TIGER 3, TIGER 4, TIGER 5, TIGER 6, TIGER 7L, TIGER 7H, TIGER 8L, TIGER 8H, TAURUS, AQUARIUS, JUPITER, APOLO and TC61 L/H
08 MAR	10:15 - 13:30 (SHADOW wave)	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 5, TIGER 6, TIGER 9, TAURUS, AQUARIUS, D10, TC10 and TC61 L/H
	13:30 -14:30	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 9
	14:30 - 17:00 (COMAO wave)	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 1H, TIGER 2, TIGER 3, TIGER 4, TIGER 5, TIGER 6, TIGER 7L, TIGER 7H, TIGER 8L, TIGER 8H, TAURUS, AQUARIUS, JUPITER, APOLO, D10, TC10 and TC61 L/H
09 MAR	10:15 - 13:30 (SHADOW wave)	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 5, TIGER 6, TIGER 9, TAURUS, AQUARIUS, D10, TC10 and TC61 L/H
	13:30 -14:30	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 9
	14:30 - 17:00 (COMAO wave)	TIGER NORTH, TIGER SOUTH, TIGER 1L, TIGER 1H, TIGER 2, TIGER 3, TIGER 4, TIGER 5, TIGER 6, TIGER 7L, TIGER 7H, TIGER 8L, TIGER 8H, TAURUS, AQUARIUS, JUPITER, APOLO and TC61 L/H

4. SPECIAL INFORMATION

Mass Divert Routes (MDR) were created aiming to minimize the impact on GAT and ATC units. All Mass Divert Routes will be activated on a tactical basis only in case of need of a Mass Divert Scenario (see Appendix 1).

5. AFFECTED FACILITIES

Operators can only use the aerodromes, heliports and ultralights runways listed, outside REAL THAW 2023 activity time.

AERODROMES

CASTELO BRANCO (LPCB), ARP 395054N 0072630W, within lateral limits of JUPITER.

FERREIRA DO ALENTEJO (LPFA), ARP 380221N 0080615W, within lateral limits of TIGER NORTH.
SEIA (LPSE), ARP 402712N 0074130W, within lateral limits of APOLO.

HELIPORTS

ABRANTES HOSPITAL (LPAB), ARP 392722N 0081159W, within lateral limits of AQUARIUS.
AGUIAR DA BEIRA, ARP 404903N 0073211W, within lateral limits of APOLO.
BARLAVENTO ALGARVIO HOSPITAL (LPBA), ARP 370924N 0083227W, within lateral limits of buffer area for LPPM.
BEJA (LPPJ), ARP 380329N 0075231W, within lateral limits of TIGER NORTH.
COVILHÃ HOSPITAL (LPCL), 401603N 0072929W, within lateral limits of APOLO.
ÉVORA HOSPITAL (LPER), ARP 383405N 0075409W, within lateral limits of LPEV buffer area.
GUARDA HOSPITAL (LPGA), 403147N 0071641W, within lateral limits of APOLO.
HERDADE DA BRAVA (LPHB), ARP 374143N 0073714W, within lateral limits of TIGER SOUTH.
LAGOS, ARP 370715N 0084035W, within lateral limits of buffer area for LPPM.
MONCHIQUE, ARP 371912N 0083308W, within lateral limits of TIGER 1.
SARDOAL (LPSD), ARP 393233N 0080937W, within lateral limits of AQUARIUS.
SINES (LPSI), ARP 375718N 0085246W, within lateral limits of TIGER NORTH.
TOMAR HOSPITAL (LPTH), ARP 393638N 0082343W, within lateral limits of AQUARIUS.

ULTRALIGHTS RUNWAYS

ALENTEJO AIR PARK, 372756N 0084414W, within lateral limits of TIGER 1.
BEJA, 380337N 0075239W, within lateral limits of TIGER NORTH.
CABEÇO DA VACA, 402040N 0065848W, within lateral limits of APOLO.
CAMPINHO, 382133N 0072757W, within lateral limits of TIGER 5.
HERDADE DA LAMEIRA, 391640N 0074621W, within lateral limits of AQUARIUS and TAURUS.
HERDADE DA ZAMBUJEIRA, 374015N 0080726W, within lateral limits of TIGER SOUTH.
LAGOS, 370719N 0084044W, within lateral limits of buffer area for LPPM.
VALADAS, 394055N 0081511W, within lateral limits of AQUARIUS.
VALDONAS, 393527N 0082217W, within lateral limits of AQUARIUS.

6. PERMISSIONS

Special permissions apply to LPPM, LPEV and LPSO aerodromes:

PORTIMÃO (LPPM)

Buffer area, 9.3KM radius centred at 370858N 0083502W (AD ARP), was created to protect LPPM AD and ATZ; and the entry/exit, to/from East of LPPM AD. This area is within lateral limits of TIGER 1, from SFC up to 5000 FT AMSL. Military aircraft shall not enter this area.

ÉVORA (LPEV)

Buffer area, 9.3KM radius centred at 383147N 0075331W (AD ARP), was created to allow civil aircraft entry/exit, to/from West of Évora AD. This area is within lateral limits of TIGER 6, from GND up to 5000FT AMSL. Military aircraft shall not enter this area.

In addition, AC1 - LPEV access corridor 383150N 0075955W - 383152N 0080414W with 1NM width, from 4000FT AMSL to 5000FT AMSL, was created. During RT23 activity time, corridor only available for traffic to/ from LPSO with LPEV as alternate, if LPSO closed.

PONTE DE SÔR (LPSO)

Corridors TC61L/H, allow GAT traffic to/from the West and approaches to LPSO. AQUARIUS and TAURUS

affect LPSO ATZ and TRMZ, not permitting instrument approaches for RWY 21.

7. SPECIAL PROCEDURES

Due to the nature of the activities, taking place within REAL THAW 2023 areas, airspace users who are not involved in REAL THAW 2023 shall not use these areas during their activity time.

Operators can only use the aerodromes, heliports and ultralight runways listed above outside REAL THAW 2023 activity time.

Emergency, Firefighting, Public Service Obligation Flights, Medic Evacuation and Search and Rescue aircraft, will be able to cross any REAL THAW 2023 area without delays or changes to their flight path/altitude, prior coordination with Lisboa Information.

Emergency, Fire Fighting, Medical Evacuation and Search and Rescue aircraft are exempted of applied restrictions to affected facilities, requiring prior coordination with Lisboa Information.

8. TEMPORARILY SUSPENDED AREAS/ACTIVITIES

The following Aerial Sporting and Recreational activities (reference AIP PORTUGAL ENR 5.5.2) will be temporarily suspended, during the following periods:

Date	Time span	Affected Areas
FEB 27,28	11:00 – 14:00 and 15:00 – 18:00	ÉVORA AD (LPEV) PJE and GLIDER: 5KM radius centred at 383147N 0075331W, within lateral limits of TIGER 6.
MAR 01-03, 06-09		PROENÇA-A-NOVA (LPPN) PJE: 5NM radius centred at 394352N 0075229W, within lateral limits of TAURUS and JUPITER. PORTIMÃO (LPPM) PJE: 3NM radius centred at 370858N 0083502W, within lateral limits of TIGER 1.

9. COMPULSORY REROUTING

The following compulsory routes are created to ensure safety and to improve planning criteria for all airspace users during activation of REAL THAW 2023 Scenarios. These routes shall be implemented 45 minutes prior to scheduled areas activation.

RAD and EU Restrictions have been implemented with compulsory rerouteing and must be taken into account for planning purposes.

FLIGHT PLANS WILL BE REJECTED BY EU REAL THAW 2023 RESTRICTIONS which have been implemented to protect the active areas and airspace users.

Two new reporting points were created:

IZENI - FLY BY POINT - 380826.53N 0110221.08W

ROKTE - FLY BY POINT - 363457.71N 0082019.17W

10. ATC RESTRICTIONS

LPPC FIR boundary points that will not be available during RT23 are:

TIGGI, BAROK, ADILI, TAKAV due to TIGER 1 area.

AGADIR ACC will have only 4 coordination points available with Lisboa ACC:

BEXAL, AKUDA, OSLAD and AMSEL.

Traffic en-route between AGADIR ACC and Lisboa ACC areas of responsibility has to be rerouted at least 45 minutes in advance prior the beginning of the exercise, ensuring that traffic will avoid the reserved areas.

LISBOA TMA reporting points that will not be available during RT23 are:

NAKOS, LIGRA, GANSU, DEKUS due to TIGER 7 and TIGER 9 areas.

ADINO, ARDID, BARDI, RIVRO, NETOS, BABEX, ABRAT, PINOX, NINOS **NOT AVAILABLE** FOR TRAFFIC AT OR BELOW FL280 DUE TO APOLO AREA.

PORTA AND ELVAR **NOT AVAILABLE** FOR TRAFFIC AT OR BELOW FL190 DUE TO TAURUS AREA.

TROIA AND GAIOS **NOT AVAILABLE** FOR TRAFFIC AT OR BELOW FL140 DUE TO TIGER NORTH AREA.

LASIB/ROSAL **AVAILABLE** FOR TRAFFIC AT OR ABOVE FL330 DUE TO TIGER 5 AREA.

10.1. PORTO TMA

BARDI, RIVRO, CCS **NOT AVAILABLE** FOR TRAFFIC ARR LPPR DUE TO APOLO AREA. TFC ARR LPPR MUST FILE VIA ADORO CANAR DUE TO APOLO AREA.

BARDI, RIVRO, CCS **NOT AVAILABLE** FOR TRAFFIC DEP LPPR DUE TO APOLO AREA. TFC DEP LPPR MUST FILE VIA BELDU DUE TO APOLO AREA.

10.2. LISBOA TMA

10.2.1. DEPARTURES FROM LPPT/LPCS

To BEXAL **must file via** IZENI - BEXAL, available between FL310 and FL410, due to TIGER 1, TIGER 2, TIGER 3 areas.

To AKUDA or OSLAD or AMSEL **must file via** TROIA - ODEMI - VFA, available between FL230 and FL410, due to TIGER 1, TIGER 3, TIGER 4 areas.

LASIB/ROSAL **NOT AVAILABLE** FOR TRAFFIC DEP LPPT OR LPCS DUE TO TIGER 5 AREA.

10.2.2. ARRIVALS TO LPPT/LPCS

From BEXAL or MADEIRA SECTOR **must file via** IZENI, available between FL320 and FL400, due to TIGER 1, TIGER 2, TIGER 3 areas.

From AKUDA or OSLAD or AMSEL **must file via** VFA - ODEMI - TROIA, available between FL220 and FL400, due to TIGER 1, TIGER 3, TIGER 4 areas.

LASIB/ROSAL **NOT AVAILABLE** FOR TRAFFIC ARR LPPT OR LPCS DUE TO TIGER 5 AREA.

TFC ARR LPPT OR LPCS AT OR BELOW FL280 **MUST FILE VIA** ADORO - CANAR - VIS - INBOM DUE TO APOLO AREA.

10.3. ON ROUTE

10.3.1. ON ROUTE SOUTHBOUND, LEAVING LISBOA ACC AND ENTERING AGADIR ACC VIA:

BEXAL **must file via** IZENI - BEXAL, available between FL310 and FL410.

OSLAD **must file via** ODPAK - VFA - OSLAD, available between FL330 and FL410.

AMSEL **must file via** ALAGU - AMSEL, available between FL330 and FL410.

10.3.2. ON ROUTE NORTHBOUND, LEAVING AGADIR ACC AND ENTERING LISBOA ACC VIA:

BEXAL **must file** BEXAL - IZENI, available between FL320 and FL400.

AKUDA **must file** AKUDA - ROKTE - SOTEX, available between FL220 and FL400.

OSLAD **must file** OSLAD - VFA - ODPAK, available between FL220 and FL400.

AMSEL **must file** AMSEL - ALAGU, available between FL220 and FL400.

10.4. FARO TMA

TFC DEP LPFR via NON RNAV SID XAPAS9E, ODEMI9U or XAPAS9U or via RNAV SID ODEMI1V, SOTEX1V, EVURA1V, ODEMI3G or ALAGU3F **must cross** 20 DME VFA VOR at FL100 or above DUE TO TIGER SOUTH. If unable to comply, pilot must advise ATC.

SID ALAGU3F **not available** during SHADOW Scenario due to TIGER5 AREA.

11. ATM MEASURES

During REAL THAW 2023 activities, Lisboa FMP may apply ATFCM regulations in order to handle in a safe way the military constraint. Further information may be requested to Lisboa FMP.

Real unavailability of ATS route segments and airspace concerned will be notified via AUP at D-1 and via UUP. All FUA restrictions will be available on NOP Portal.

Flight plans will be rejected by EU REAL THAW 2023 restrictions which have been implemented to protect the active areas and airspace users.

12. CONTACTS

In the interest of flight safety, for additional information, the following contacts are available:

Before exercise:

LISBOA FMP +351 218435361 / +351 218553323

During exercise:

LISBOA INFORMATION +351 218553462 / +351 218422804

NAV E.P.E. LISBOA +351 218495087 / +351 218553641

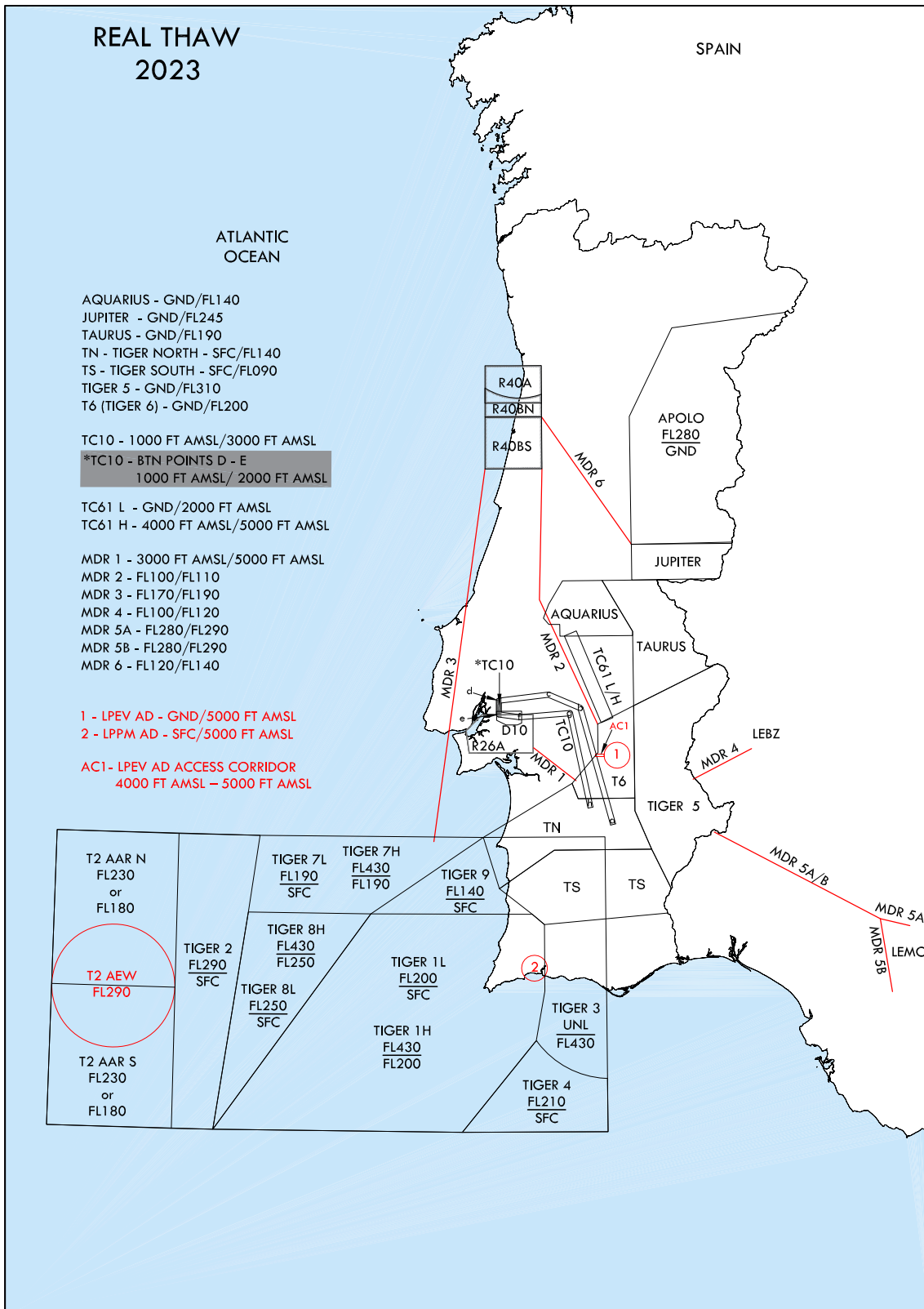
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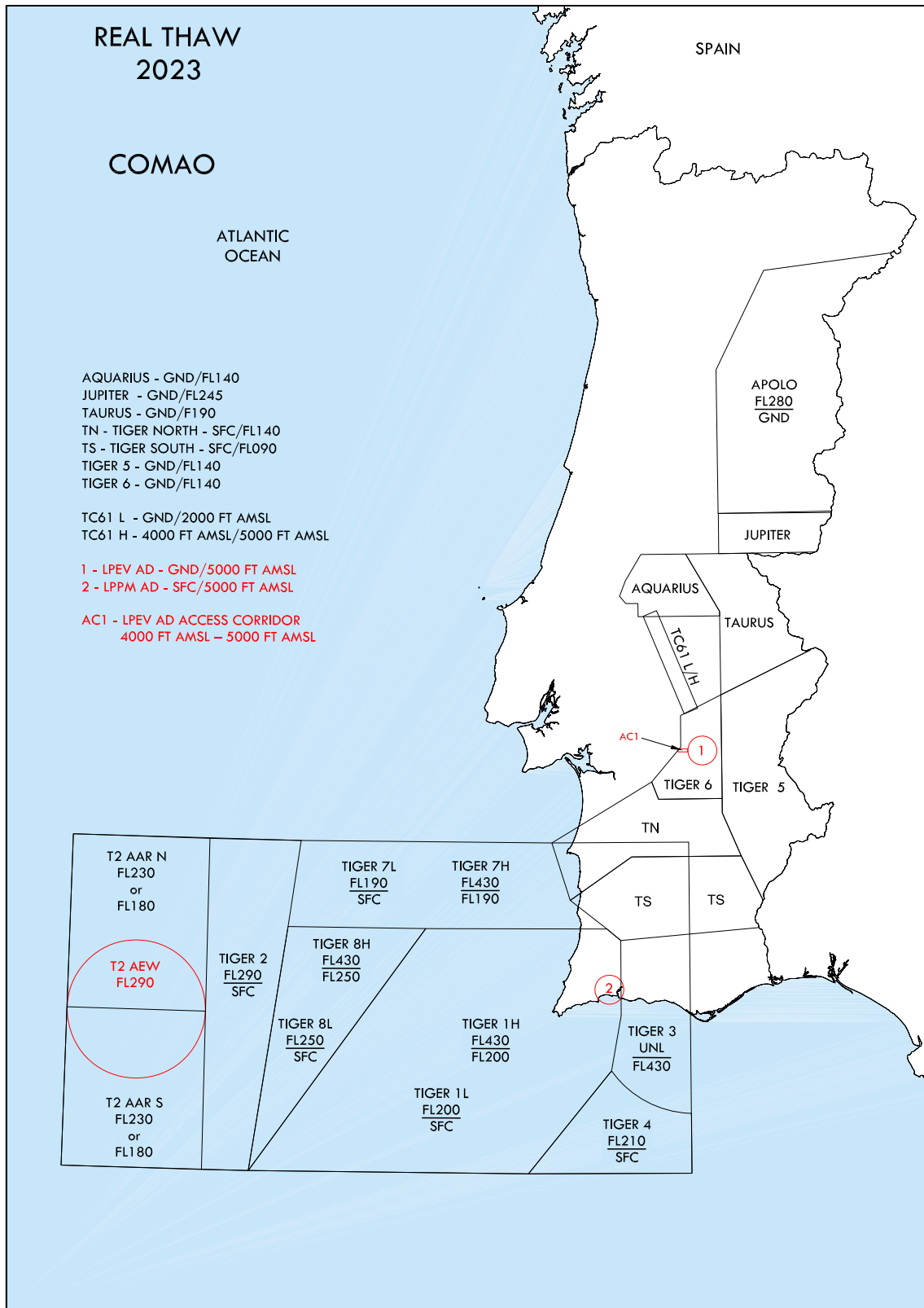
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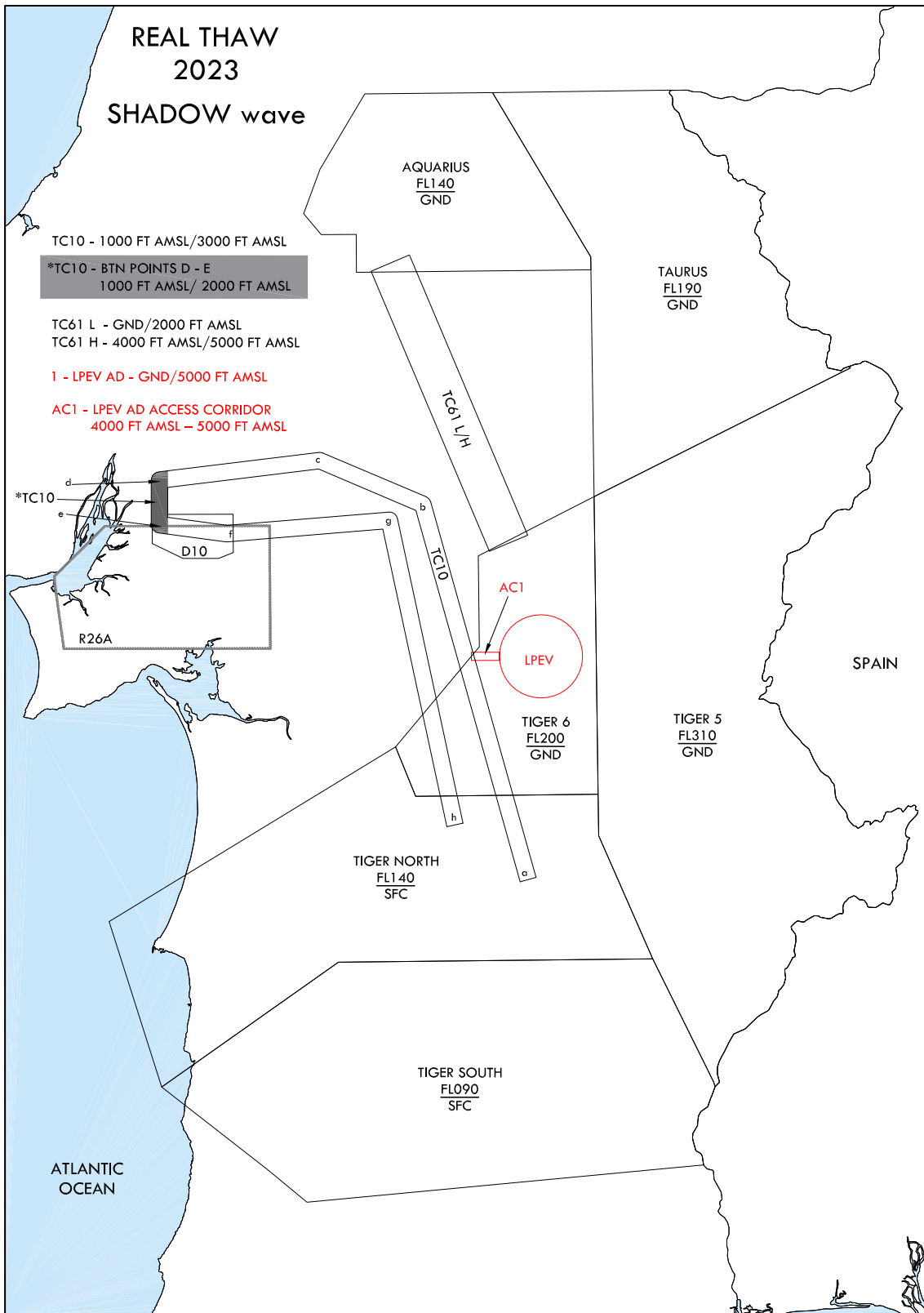
This Supplement is valid from 27-FEB-2023 until 09-MAR-2023.

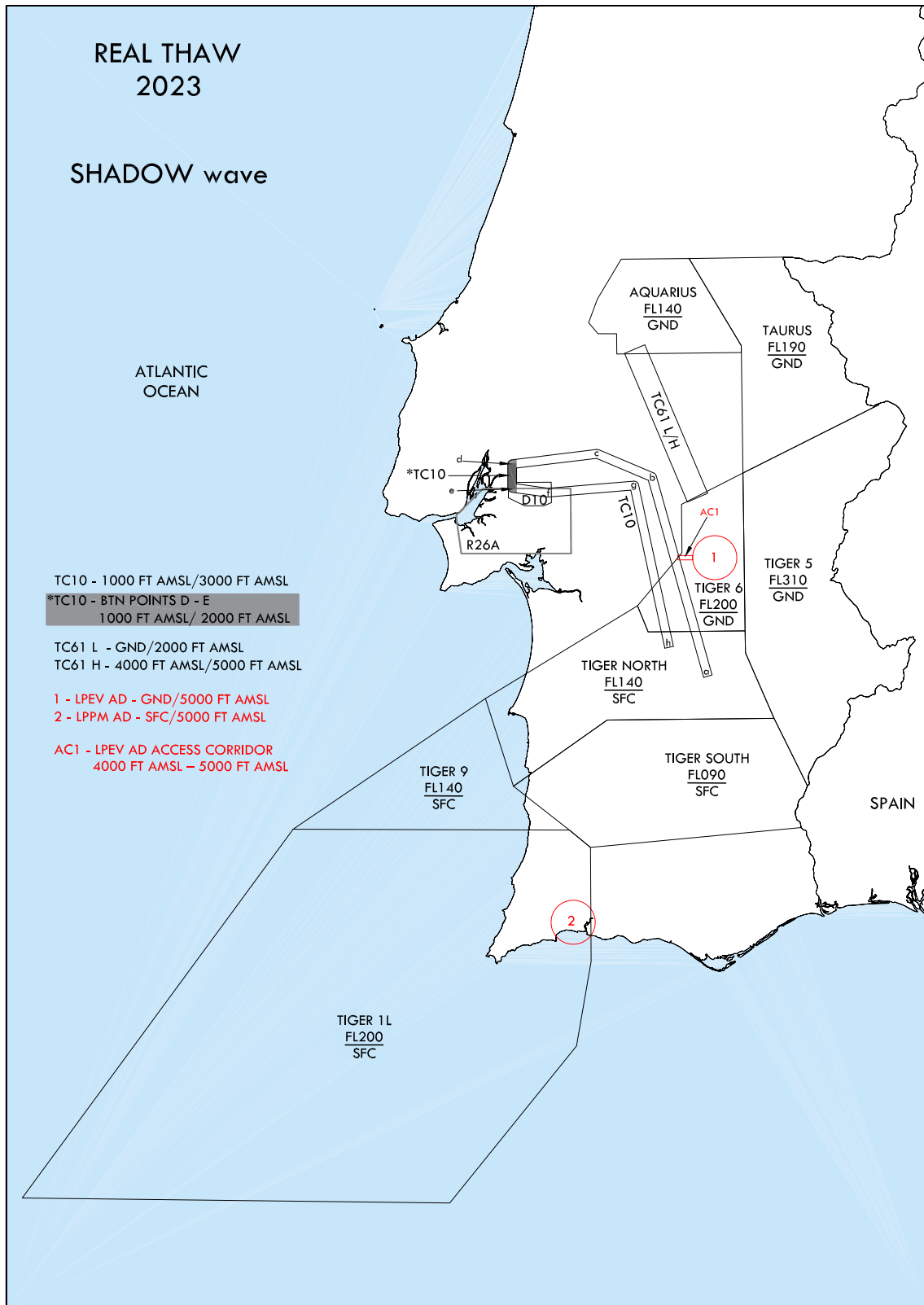
14. APPENDIX

Appendix to this supplement comprises 4 charts.









END OF SUPPLEMENT

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