

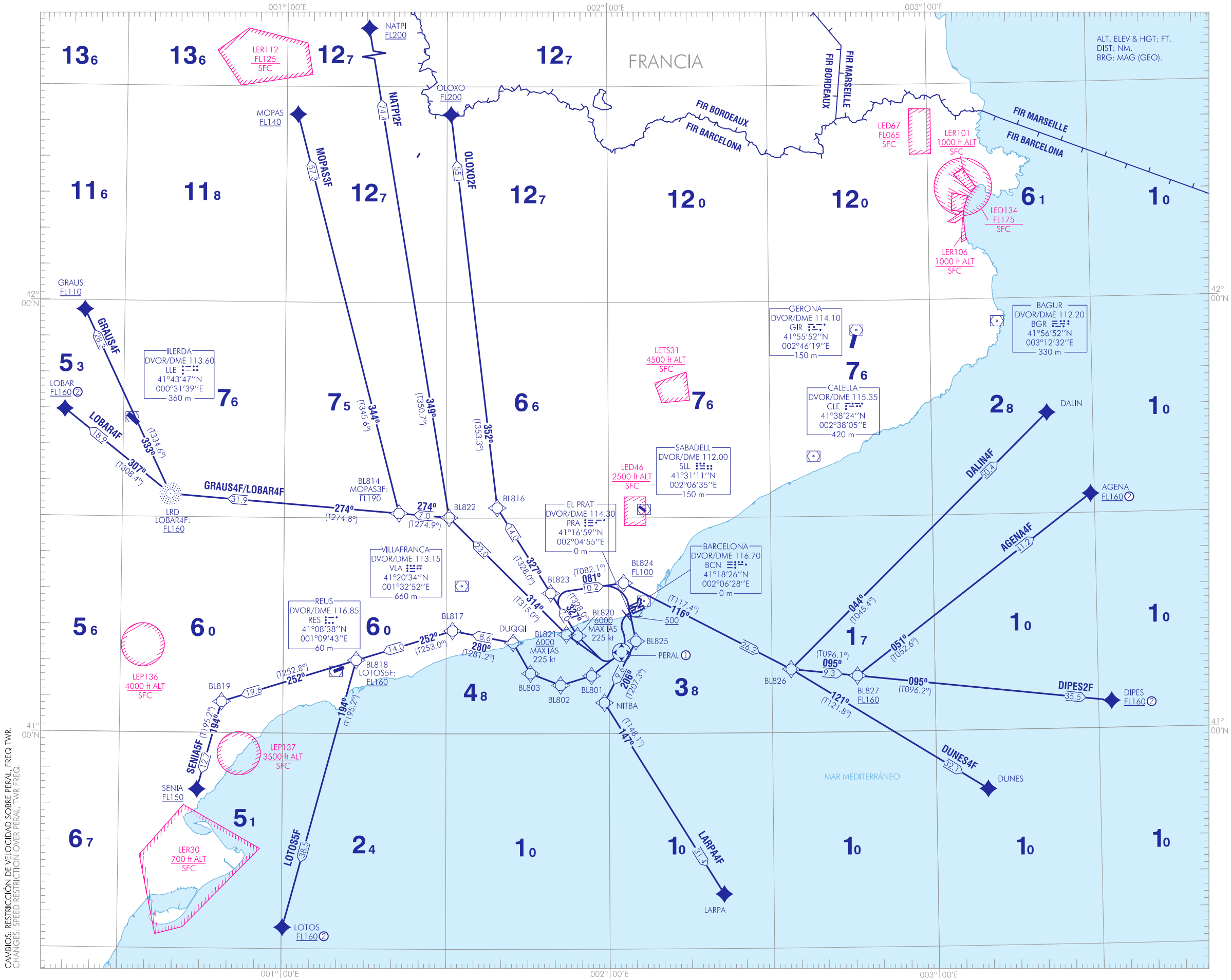
CARTA DE SALIDA NORMALIZADA  
VUELO POR INSTRUMENTOS (SID) RNAV1-OACI

TA 6000

VAR 1°E (2020)

DEP 126.505  
127.700  
TWR 118.330  
118.105

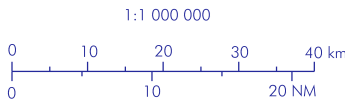
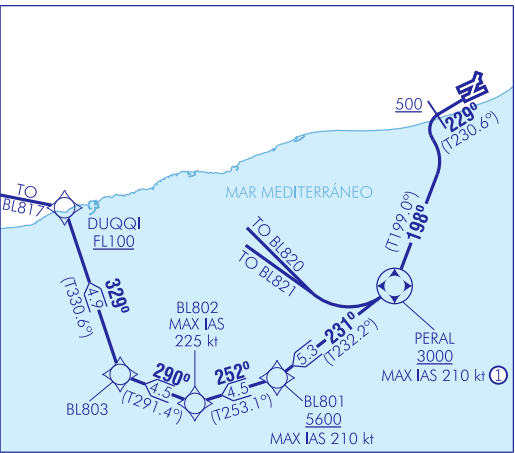
AGENA4F DALIN4F DIPES2F DUNES4F GRAUS4F LARPA4F  
LOBAR4F LOTOS5F MOPAS3F NATPI2F OLOXO2F SENIA5F



PROCEDIMIENTOS DE SALIDA  
ALTERNATIVAS  
DEPARTURE PROCEDURES  
ALTERNATIVES

NOTAS:  
① SE ESPERA QUE LAS AERONAVES TIPO C Y D CRUCEN PERAL A IAS MNM 190 KT, AVISE A ATC EN CASO DE NO CUMPLIR.  
② UNA VEZ ALCANZADA LA AEROVIA, LA MEA PODRÍA SER INFERIOR A ESTE NIVEL DE VUELO.  
- RNAV1 REQUERIDA.  
- RNAV1 (DME/DME) DME VIA CRÍTICO.  
- RNAV1 (DME/DME/IRU) SIN DME CRÍTICO.  
- LOS DME ASOCIADOS A LOS ILS NO DEBERÁN UTILIZARSE PARA ESTAS SALIDAS RNAV1.  
- NOTAS, RESTRICCIONES, OBST CERCANOS QUE VULNERAN LAS OIS: VER DESCRIPCIÓN TEXTUAL.  
- SALVO INDICACIÓN EN CONTRA DE BARCELONA TWR, UNA VEZ EN EL AIRE LLAMAR A LA FREQ DE BARCELONA APP ANTES DE CRUZAR 2000 ft. LA FREQ CORRESPONDIENTE ES LA DESCRITA EN LA SID UTILIZADA.

NOTES:  
① AIRCRAFT TYPES C AND D ARE EXPECTED TO CROSS PERAL AT MNM IAS 190 KT, ADVISE ATC IF UNABLE.  
② ONCE IN THE AIRWAY, MEA COULD BE LOWER THAN THIS LEVEL.  
- RNAV1 REQUIRED.  
- CRITICAL RNAV1 (DME/DME) DME VIA.  
- RNAV1 (DME/DME/IRU) WITHOUT CRITICAL DME.  
- DME ASSOCIATED TO ILS ARE NOT USABLE FOR THESE RNAV1 DEPARTURES.  
- NOTES, RESTRICTIONS, CLOSE-IN OBST WHICH PENETRAT THE OIS: SEE TEXTUAL DESCRIPTION.  
- UNLESS OTHERWISE INDICATED BY BARCELONA TWR, WHEN AIRBORNE CALL ON THE BARCELONA APP FREQ BEFORE CROSSING 2000 ft. THE CORRESPONDING FREQ IS THE ONE DESCRIBED IN THE SID USED.



INTENCIONADAMENTE EN BLANCO  
INTENTIONALLY BLANK

## BARCELONA/Josep Tarradellas Barcelona-El Prat AD

| COORDENADAS WAYPOINTS // WAYPOINTS COORDINATES |                            |
|------------------------------------------------|----------------------------|
| WPT                                            | COORD                      |
| AGENA                                          | 41°32'41.3"N 003°29'19.0"E |
| BL801                                          | 41°08'02.9"N 001°56'46.6"E |
| BL802                                          | 41°06'44.0"N 001°51'04.9"E |
| BL803                                          | 41°08'22.3"N 001°45'32.0"E |
| BL814                                          | 41°30'38.9"N 001°21'13.8"E |
| BL816                                          | 41°31'25.1"N 001°39'24.7"E |
| BL817                                          | 41°14'18.4"N 001°31'09.7"E |
| BL818                                          | 41°10'11.2"N 001°13'26.0"E |
| BL819                                          | 41°04'21.0"N 000°48'42.5"E |
| BL820                                          | 41°13'36.2"N 001°54'12.9"E |
| BL821                                          | 41°13'48.8"N 001°52'09.6"E |
| BL822                                          | 41°30'03.5"N 001°30'30.8"E |
| BL823                                          | 41°19'32.6"N 001°49'17.4"E |
| BL824                                          | 41°20'56.6"N 002°02'45.7"E |
| BL825                                          | 41°12'51.2"N 002°04'58.2"E |
| BL826                                          | 41°08'47.9"N 002°33'31.9"E |
| BL827                                          | 41°07'48.0"N 002°45'43.6"E |
| DALIN                                          | 41°44'01.6"N 003°21'28.4"E |
| DIPES                                          | 41°03'46.6"N 003°32'24.2"E |
| DUNES                                          | 40°51'49.5"N 003°09'27.2"E |
| DUQQI                                          | 41°12'38.3"N 001°42'21.0"E |
| GRAUS                                          | 41°58'44.5"N 000°22'35.2"E |
| LARPA                                          | 40°37'35.8"N 002°20'55.1"E |
| LOBAR                                          | 41°44'52.8"N 000°19'06.4"E |
| LOTOS                                          | 40°32'58.9"N 001°00'10.7"E |
| LRD                                            | 41°33'10.5"N 000°38'52.9"E |
| MOPAS                                          | 42°26'07.3"N 001°02'03.7"E |
| NATPI                                          | 42°43'26.0"N 001°14'08.9"E |
| NITBA                                          | 41°04'18.0"N 001°59'08.4"E |
| OLOXO                                          | 42°26'06.8"N 001°30'45.9"E |
| PERAL                                          | 41°11'18.1"N 002°02'19.2"E |
| SENIA                                          | 40°52'07.5"N 000°44'19.6"E |

## SALIDAS NORMALIZADAS POR INSTRUMENTOS (SID)

## RNAV1 - ALTERNATIVA

## PISTA 24L

## NOTAS APLICABLES A TODAS LAS SALIDAS:

- Mantener rumbo de pista hasta alcanzar 394 ft HGT.
- RNAV1 requerida.
- IAS MAX 250 kt hasta alcanzar FL100.
- AUTORIZACIÓN INICIAL ATC: subir y mantener inicialmente 6000 ft y solicitar cambio de nivel en ruta.
- SOLO USO TÁCTICO. NO PLANIFICABLE.
- Con el objeto de cumplir con lo establecido en el AIP AD 2-LEBL, casilla 21, el alabeo para el ajuste de trayectoria inicial indicado en las SID se iniciará por debajo de 500 ft. En ningún caso se sobrepasará durante el viraje la recta que une los puntos de coordenadas 41°18'25.6"N 002°06'28.1"E (DVOR BCN) y 41°16'05.4"N 002°02'00.0"E (en línea de costa), equivalente al R-234 del DVOR/DME BCN.

## STANDARD INSTRUMENT DEPARTURES (SID)

## RNAV1 - ALTERNATIVE

## RUNWAY 24L

## NOTES APPLICABLE TO ALL:

- Maintain runway heading until reaching 394 ft HGT.
- RNAV1 required, except contingency departure.
- MAX IAS 250 kt until reachg FL100.
- INITIAL ATC CLEARANCE: Climb and initially maintain 6000 ft and request flight level change en route.
- TACTICAL USE ONLY. UNPLANNABLE.
- In order to comply with AIP AD 2-LEBL ítem 21, the warp for the initial trajectory adjustment indicated in the SIDs shall be initiated below 500 ft. In no case, shall the line linking the coordinates 41°18'25.6"N 002°06'28.1"E (DVOR BCN) and 41°16'05.4"N 002°02'00.0"E (in coast line), equivalent to the R-234 of the DVOR/DME BCN, be overshoot during the turning.

DESCRIPCIÓN TABULAR DEL PROCEDIMIENTO  
PROCEDURE TABULAR DESCRIPTION

| Número de serie<br>Serial number                                                                                                                                                  | Descriptor de trayectoria<br>Path Terminator | Identificador de punto de recorrido<br>Waypoint identifier | Sobrevuelo<br>Fly-over | Curso / Derrota<br>Course/Track<br>°M(°T) | Variación magnética<br>Magnetic variation | Distancia<br>Distance (NM) | Dirección de viraje<br>Turn direction | Altitud<br>Altitude (ft) | Velocidad<br>Speed (kt) | VPA/TCH<br>(°/ft) | Especificación de navegación<br>Navigation specification |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------|------------------------|-------------------------------------------|-------------------------------------------|----------------------------|---------------------------------------|--------------------------|-------------------------|-------------------|----------------------------------------------------------|
| <b>AGENA4F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta BL820, debida a motivos operacionales. // Minimum climb gradient 8.0% up to BL820, due to operational reasons.     |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                                                                                                               | CA                                           | -                                                          | -                      | 229 (230.6)                               | -1.2                                      | -                          | -                                     | +500                     | -                       | -                 | RNAV1                                                    |
| 002                                                                                                                                                                               | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                               | -1.2                                      | -                          | -                                     | +3000                    | -210                    | -                 | RNAV1                                                    |
| 003                                                                                                                                                                               | DF                                           | BL820                                                      | -                      | -                                         | -1.2                                      | -                          | R                                     | +6000                    | -225                    | -                 | RNAV1                                                    |
| 004                                                                                                                                                                               | TF                                           | BL823                                                      | -                      | 327 (328.0)                               | -1.2                                      | 7.0                        | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 005                                                                                                                                                                               | TF                                           | BL824                                                      | -                      | 081 (082.1)                               | -1.2                                      | 10.2                       | -                                     | +FL100                   | -                       | -                 | RNAV1                                                    |
| 006                                                                                                                                                                               | TF                                           | BL826                                                      | -                      | 116 (117.4)                               | -1.2                                      | 26.2                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 007                                                                                                                                                                               | TF                                           | BL827                                                      | -                      | 095 (096.1)                               | -1.2                                      | 9.3                        | -                                     | +FL160                   | -                       | -                 | RNAV1                                                    |
| 008                                                                                                                                                                               | TF                                           | AGENA                                                      | -                      | 051 (052.6)                               | -1.2                                      | 41.2                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| <b>DALIN4F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta BL820, debida a motivos operacionales. // Minimum climb gradient 8.0% up to BL820, due to operational reasons.     |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                                                                                                               | CA                                           | -                                                          | -                      | 229 (230.6)                               | -1.2                                      | -                          | -                                     | +500                     | -                       | -                 | RNAV1                                                    |
| 002                                                                                                                                                                               | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                               | -1.2                                      | -                          | -                                     | +3000                    | -210                    | -                 | RNAV1                                                    |
| 003                                                                                                                                                                               | DF                                           | BL820                                                      | -                      | -                                         | -1.2                                      | -                          | R                                     | +6000                    | -225                    | -                 | RNAV1                                                    |
| 004                                                                                                                                                                               | TF                                           | BL823                                                      | -                      | 327 (328.0)                               | -1.2                                      | 7.0                        | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 005                                                                                                                                                                               | TF                                           | BL824                                                      | -                      | 081 (082.1)                               | -1.2                                      | 10.2                       | -                                     | +FL100                   | -                       | -                 | RNAV1                                                    |
| 006                                                                                                                                                                               | TF                                           | BL826                                                      | -                      | 116 (117.4)                               | -1.2                                      | 26.2                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 007                                                                                                                                                                               | TF                                           | DALIN                                                      | -                      | 044 (045.4)                               | -1.2                                      | 50.4                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| <b>DIPES2F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta BL820, debida a motivos operacionales. // Minimum climb gradient 8.0% up to BL820, due to operational reasons.     |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                                                                                                               | CA                                           | -                                                          | -                      | 229 (230.6)                               | -1.2                                      | -                          | -                                     | +500                     | -                       | -                 | RNAV1                                                    |
| 002                                                                                                                                                                               | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                               | -1.2                                      | -                          | -                                     | +3000                    | -210                    | -                 | RNAV1                                                    |
| 003                                                                                                                                                                               | DF                                           | BL820                                                      | -                      | -                                         | -1.2                                      | -                          | R                                     | +6000                    | -225                    | -                 | RNAV1                                                    |
| 004                                                                                                                                                                               | TF                                           | BL823                                                      | -                      | 327 (328.0)                               | -1.2                                      | 7.0                        | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 005                                                                                                                                                                               | TF                                           | BL824                                                      | -                      | 081 (082.1)                               | -1.2                                      | 10.2                       | -                                     | +FL100                   | -                       | -                 | RNAV1                                                    |
| 006                                                                                                                                                                               | TF                                           | BL826                                                      | -                      | 116 (117.4)                               | -1.2                                      | 26.2                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 007                                                                                                                                                                               | TF                                           | BL827                                                      | -                      | 095 (096.1)                               | -1.2                                      | 9.3                        | -                                     | +FL160                   | -                       | -                 | RNAV1                                                    |
| 008                                                                                                                                                                               | TF                                           | DIPES                                                      | -                      | 095 (096.2)                               | -1.2                                      | 35.5                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| <b>DUNES4F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta BL820, debida a motivos operacionales. // Minimum climb gradient 8.0% up to BL820, due to operational reasons.     |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                                                                                                               | CA                                           | -                                                          | -                      | 229 (230.6)                               | -1.2                                      | -                          | -                                     | +500                     | -                       | -                 | RNAV1                                                    |
| 002                                                                                                                                                                               | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                               | -1.2                                      | -                          | -                                     | +3000                    | -210                    | -                 | RNAV1                                                    |
| 003                                                                                                                                                                               | DF                                           | BL820                                                      | -                      | -                                         | -1.2                                      | -                          | R                                     | +6000                    | -225                    | -                 | RNAV1                                                    |
| 004                                                                                                                                                                               | TF                                           | BL823                                                      | -                      | 327 (328.0)                               | -1.2                                      | 7.0                        | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 005                                                                                                                                                                               | TF                                           | BL824                                                      | -                      | 081 (082.1)                               | -1.2                                      | 10.2                       | -                                     | +FL100                   | -                       | -                 | RNAV1                                                    |
| 006                                                                                                                                                                               | TF                                           | BL826                                                      | -                      | 116 (117.4)                               | -1.2                                      | 26.2                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 007                                                                                                                                                                               | TF                                           | DUNES                                                      | -                      | 121 (121.8)                               | -1.2                                      | 32.1                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| <b>GRAUS4F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta 5000 ft, debida a motivos operacionales. // Minimum climb gradient 8.0% up to 5000 ft, due to operational reasons. |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                                                                                                               | CA                                           | -                                                          | -                      | 229 (230.6)                               | -1.2                                      | -                          | -                                     | +500                     | -                       | -                 | RNAV1                                                    |
| 002                                                                                                                                                                               | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                               | -1.2                                      | -                          | -                                     | +3000                    | -210                    | -                 | RNAV1                                                    |
| 003                                                                                                                                                                               | DF                                           | BL821                                                      | -                      | -                                         | -1.2                                      | -                          | R                                     | +6000                    | -225                    | -                 | RNAV1                                                    |
| 004                                                                                                                                                                               | TF                                           | BL822                                                      | -                      | 314 (315.0)                               | -1.2                                      | 23.0                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 005                                                                                                                                                                               | TF                                           | BL814                                                      | -                      | 274 (274.9)                               | -1.2                                      | 7.0                        | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 006                                                                                                                                                                               | TF                                           | LRD                                                        | -                      | 274 (274.8)                               | -1.2                                      | 31.9                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 007                                                                                                                                                                               | TF                                           | GRAUS                                                      | -                      | 333 (334.6)                               | -1.2                                      | 28.3                       | -                                     | +FL110                   | -                       | -                 | RNAV1                                                    |

| Número de serie<br>Serial number                                                                                                                                                  | Descriptor de trayectoria<br>Path Terminator | Identificador de punto de recorrido<br>Waypoint identifier | Sobrevuelo<br>Fly-over | Curso/ Derrota<br>Course/Track<br>°M (°T) | Variación magnética<br>Magnetic variation | Distancia<br>Distance<br>(NM) | Dirección de viraje<br>Turn direction | Altitud<br>Altitude<br>(ft) | Velocidad<br>Speed<br>(kt) | VPA/TCH<br>(°/ft) | Especificación de navegación<br>Navigation specification |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------|------------------------|-------------------------------------------|-------------------------------------------|-------------------------------|---------------------------------------|-----------------------------|----------------------------|-------------------|----------------------------------------------------------|
| <b>LARPA4F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta BL820, debida a motivos operacionales. // Minimum climb gradient 8.0% up to BL820, due to operational reasons.     |                                              |                                                            |                        |                                           |                                           |                               |                                       |                             |                            |                   |                                                          |
| 001                                                                                                                                                                               | CA                                           | -                                                          | -                      | 229 (230.6)                               | -1.2                                      | -                             | -                                     | +500                        | -                          | -                 | RNAV1                                                    |
| 002                                                                                                                                                                               | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                               | -1.2                                      | -                             | -                                     | +3000                       | -210                       | -                 | RNAV1                                                    |
| 003                                                                                                                                                                               | DF                                           | BL820                                                      | -                      | -                                         | -1.2                                      | -                             | R                                     | +6000                       | -225                       | -                 | RNAV1                                                    |
| 004                                                                                                                                                                               | TF                                           | BL823                                                      | -                      | 327 (328.0)                               | -1.2                                      | 7.0                           | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| 005                                                                                                                                                                               | TF                                           | BL824                                                      | -                      | 081 (082.1)                               | -1.2                                      | 10.2                          | -                                     | +FL100                      | -                          | -                 | RNAV1                                                    |
| 006                                                                                                                                                                               | TF                                           | BL825                                                      | -                      | 167 (168.4)                               | -1.2                                      | 8.3                           | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| 007                                                                                                                                                                               | TF                                           | NITBA                                                      | -                      | 206 (207.3)                               | -1.2                                      | 9.6                           | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| 008                                                                                                                                                                               | TF                                           | LARPA                                                      | -                      | 147 (148.1)                               | -1.2                                      | 31.4                          | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| <b>LOBAR4F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta 5000 ft, debida a motivos operacionales. // Minimum climb gradient 8.0% up to 5000 ft, due to operational reasons. |                                              |                                                            |                        |                                           |                                           |                               |                                       |                             |                            |                   |                                                          |
| 001                                                                                                                                                                               | CA                                           | -                                                          | -                      | 229 (230.6)                               | -1.2                                      | -                             | -                                     | +500                        | -                          | -                 | RNAV1                                                    |
| 002                                                                                                                                                                               | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                               | -1.2                                      | -                             | -                                     | +3000                       | -210                       | -                 | RNAV1                                                    |
| 003                                                                                                                                                                               | DF                                           | BL821                                                      | -                      | -                                         | -1.2                                      | -                             | R                                     | +6000                       | -225                       | -                 | RNAV1                                                    |
| 004                                                                                                                                                                               | TF                                           | BL822                                                      | -                      | 314 (315.0)                               | -1.2                                      | 23.0                          | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| 005                                                                                                                                                                               | TF                                           | BL814                                                      | -                      | 274 (274.9)                               | -1.2                                      | 7.0                           | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| 006                                                                                                                                                                               | TF                                           | LRD                                                        | -                      | 274 (274.8)                               | -1.2                                      | 31.9                          | -                                     | +FL160                      | -                          | -                 | RNAV1                                                    |
| 007                                                                                                                                                                               | TF                                           | LOBAR                                                      | -                      | 307 (308.4)                               | -1.2                                      | 18.9                          | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| <b>LOTOS5F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta DUQQI, debida a motivos operacionales. // Minimum climb gradient 8.0% up to DUQQI, due to operational reasons.     |                                              |                                                            |                        |                                           |                                           |                               |                                       |                             |                            |                   |                                                          |
| 001                                                                                                                                                                               | CA                                           | -                                                          | -                      | 229 (230.6)                               | -1.2                                      | -                             | -                                     | +500                        | -                          | -                 | RNAV1                                                    |
| 002                                                                                                                                                                               | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                               | -1.2                                      | -                             | -                                     | +3000                       | -                          | -                 | RNAV1                                                    |
| 003                                                                                                                                                                               | TF                                           | BL801                                                      | -                      | 231 (232.2)                               | -1.2                                      | 5.3                           | -                                     | +5600                       | -210                       | -                 | RNAV1                                                    |
| 004                                                                                                                                                                               | TF                                           | BL802                                                      | -                      | 252 (253.1)                               | -1.2                                      | 4.5                           | -                                     | -                           | -225                       | -                 | RNAV1                                                    |
| 005                                                                                                                                                                               | TF                                           | BL803                                                      | -                      | 290 (291.4)                               | -1.2                                      | 4.5                           | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| 006                                                                                                                                                                               | TF                                           | DUQQI                                                      | -                      | 329 (330.6)                               | -1.2                                      | 4.9                           | -                                     | +FL100                      | -                          | -                 | RNAV1                                                    |
| 007                                                                                                                                                                               | TF                                           | BL817                                                      | -                      | 280 (281.2)                               | -1.2                                      | 8.6                           | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| 008                                                                                                                                                                               | TF                                           | BL818                                                      | -                      | 252 (253.0)                               | -1.2                                      | 14.0                          | -                                     | +FL160                      | -                          | -                 | RNAV1                                                    |
| 009                                                                                                                                                                               | TF                                           | LOTOS                                                      | -                      | 194 (195.2)                               | -1.2                                      | 38.5                          | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| <b>MOPAS3F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta 5000 ft, debida a motivos operacionales. // Minimum climb gradient 8.0% up to 5000 ft, due to operational reasons. |                                              |                                                            |                        |                                           |                                           |                               |                                       |                             |                            |                   |                                                          |
| 001                                                                                                                                                                               | CA                                           | -                                                          | -                      | 229 (230.6)                               | -1.2                                      | -                             | -                                     | +500                        | -                          | -                 | RNAV1                                                    |
| 002                                                                                                                                                                               | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                               | -1.2                                      | -                             | -                                     | +3000                       | -210                       | -                 | RNAV1                                                    |
| 003                                                                                                                                                                               | DF                                           | BL821                                                      | -                      | -                                         | -1.2                                      | -                             | R                                     | +6000                       | -225                       | -                 | RNAV1                                                    |
| 004                                                                                                                                                                               | TF                                           | BL822                                                      | -                      | 314 (315.0)                               | -1.2                                      | 23.0                          | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| 005                                                                                                                                                                               | TF                                           | BL814                                                      | -                      | 274 (274.9)                               | -1.2                                      | 7.0                           | -                                     | -FL190                      | -                          | -                 | RNAV1                                                    |
| 006                                                                                                                                                                               | TF                                           | MOPAS                                                      | -                      | 344 (345.6)                               | -1.2                                      | 57.3                          | -                                     | +FL140                      | -                          | -                 | RNAV1                                                    |
| <b>NATPI2F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta 5000 ft, debida a motivos operacionales. // Minimum climb gradient 8.0% up to 5000 ft, due to operational reasons. |                                              |                                                            |                        |                                           |                                           |                               |                                       |                             |                            |                   |                                                          |
| 001                                                                                                                                                                               | CA                                           | -                                                          | -                      | 229 (230.6)                               | -1.2                                      | -                             | -                                     | +500                        | -                          | -                 | RNAV1                                                    |
| 002                                                                                                                                                                               | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                               | -1.2                                      | -                             | -                                     | +3000                       | -210                       | -                 | RNAV1                                                    |
| 003                                                                                                                                                                               | DF                                           | BL821                                                      | -                      | -                                         | -1.2                                      | -                             | R                                     | +6000                       | -225                       | -                 | RNAV1                                                    |
| 004                                                                                                                                                                               | TF                                           | BL822                                                      | -                      | 314 (315.0)                               | -1.2                                      | 23.0                          | -                                     | -                           | -                          | -                 | RNAV1                                                    |
| 005                                                                                                                                                                               | TF                                           | NATPI                                                      | -                      | 349 (350.7)                               | -1.2                                      | 74.4                          | -                                     | +FL200                      | -                          | -                 | RNAV1                                                    |

| Número de serie<br>Serial number                                                                                                                                                | Descriptor de trayectoria<br>Path Terminator | Identificador de punto de recorrido<br>Waypoint identifier | Sobrevuelo<br>Fly-over | Curso / Derrota<br>Course/Track °M(°T) | Variación magnética<br>Magnetic variation | Distancia<br>Distance (NM) | Dirección de viraje<br>Turn direction | Altitud<br>Altitude (ft) | Velocidad<br>Speed (kt) | VPA/TCH<br>(°/ft) | Especificación de navegación<br>Navigation specification |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------|------------------------|----------------------------------------|-------------------------------------------|----------------------------|---------------------------------------|--------------------------|-------------------------|-------------------|----------------------------------------------------------|
| → <b>OLOX02F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta BL820, debida a motivos operacionales. // Minimum climb gradient 8.0% up to BL820, due to operational reasons. |                                              |                                                            |                        |                                        |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                                                                                                             | CA                                           | -                                                          | -                      | 229 (230.6)                            | -1.2                                      | -                          | -                                     | +500                     | -                       | -                 | RNAV1                                                    |
| → 002                                                                                                                                                                           | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                            | -1.2                                      | -                          | -                                     | +3000                    | -210                    | -                 | RNAV1                                                    |
| 003                                                                                                                                                                             | DF                                           | BL820                                                      | -                      | -                                      | -1.2                                      | -                          | R                                     | +6000                    | -225                    | -                 | RNAV1                                                    |
| 004                                                                                                                                                                             | TF                                           | BL823                                                      | -                      | 327 (328.0)                            | -1.2                                      | 7.0                        | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 005                                                                                                                                                                             | TF                                           | BL816                                                      | -                      | 327 (328.0)                            | -1.2                                      | 14.0                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 006                                                                                                                                                                             | TF                                           | OLOX0                                                      | -                      | 352 (353.3)                            | -1.2                                      | 55.1                       | -                                     | +FL200                   | -                       | -                 | RNAV1                                                    |
| → <b>SENIA5F RNAV1</b><br>Pendiente mínima de ascenso 8.0% hasta FL090, debida a motivos operacionales. // Minimum climb gradient 8.0% up to FL090, due to operational reasons. |                                              |                                                            |                        |                                        |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                                                                                                             | CA                                           | -                                                          | -                      | 229 (230.6)                            | -1.2                                      | -                          | -                                     | +500                     | -                       | -                 | RNAV1                                                    |
| → 002                                                                                                                                                                           | CF                                           | PERAL                                                      | Y                      | 198 (199.0)                            | -1.2                                      | -                          | -                                     | +3000                    | -                       | -                 | RNAV1                                                    |
| 003                                                                                                                                                                             | TF                                           | BL801                                                      | -                      | 231 (232.2)                            | -1.2                                      | 5.3                        | -                                     | +5600                    | -210                    | -                 | RNAV1                                                    |
| 004                                                                                                                                                                             | TF                                           | BL802                                                      | -                      | 252 (253.1)                            | -1.2                                      | 4.5                        | -                                     | -                        | -225                    | -                 | RNAV1                                                    |
| 005                                                                                                                                                                             | TF                                           | BL803                                                      | -                      | 290 (291.4)                            | -1.2                                      | 4.5                        | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 006                                                                                                                                                                             | TF                                           | DUQQI                                                      | -                      | 329 (330.6)                            | -1.2                                      | 4.9                        | -                                     | +FL100                   | -                       | -                 | RNAV1                                                    |
| 007                                                                                                                                                                             | TF                                           | BL817                                                      | -                      | 280 (281.2)                            | -1.2                                      | 8.6                        | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 008                                                                                                                                                                             | TF                                           | BL818                                                      | -                      | 252 (253.0)                            | -1.2                                      | 14.0                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 009                                                                                                                                                                             | TF                                           | BL819                                                      | -                      | 252 (252.8)                            | -1.2                                      | 19.6                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 010                                                                                                                                                                             | TF                                           | SENIA                                                      | -                      | 194 (195.2)                            | -1.2                                      | 12.7                       | -                                     | +FL150                   | -                       | -                 | RNAV2                                                    |

| OBSTÁCULOS CERCANOS QUE PENETRAN LA OIS // CLOSE-IN OBSTACLES WHICH PENETRATE THE OIS |     |              |               |          |           |
|---------------------------------------------------------------------------------------|-----|--------------|---------------|----------|-----------|
| OBST                                                                                  | RWY | LAT          | LONG          | HGT (ft) | ELEV (ft) |
| Árbol // Tree                                                                         | 24L | 41°16'48.7"N | 002°04'24.6"E | 27       | 34        |
| Árbol // Tree                                                                         | 24L | 41°16'48.6"N | 002°04'23.7"E | 31       | 38        |
| Árbol // Tree                                                                         | 24L | 41°16'46.7"N | 002°04'23.4"E | 46       | 49        |
| Árbol // Tree                                                                         | 24L | 41°16'47.6"N | 002°04'22.6"E | 31       | 38        |
| Árbol // Tree                                                                         | 24L | 41°16'48.1"N | 002°04'21.2"E | 37       | 40        |
| Árbol // Tree                                                                         | 24L | 41°16'43.3"N | 002°04'20.6"E | 44       | 48        |
| Árbol // Tree                                                                         | 24L | 41°16'42.7"N | 002°04'20.0"E | 54       | 58        |

| OBSTÁCULOS SIGNIFICATIVOS // SIGNIFICANT OBSTACLES |     |              |               |          |           |
|----------------------------------------------------|-----|--------------|---------------|----------|-----------|
| OBST                                               | RWY | LAT          | LONG          | HGT (ft) | ELEV (ft) |
| Terreno // Terrain                                 | 24L | 41°17'19.0"N | 001°54'29.4"E | 0        | 1883      |
| Terreno // Terrain                                 | 24L | 41°17'31.4"N | 001°54'36.2"E | 0        | 1945      |
| Terreno // Terrain                                 | 24L | 41°17'33.3"N | 001°54'50.8"E | 0        | 1909      |