

CARTA DE APROXIMACIÓN  
POR INSTRUMENTOS-OACI

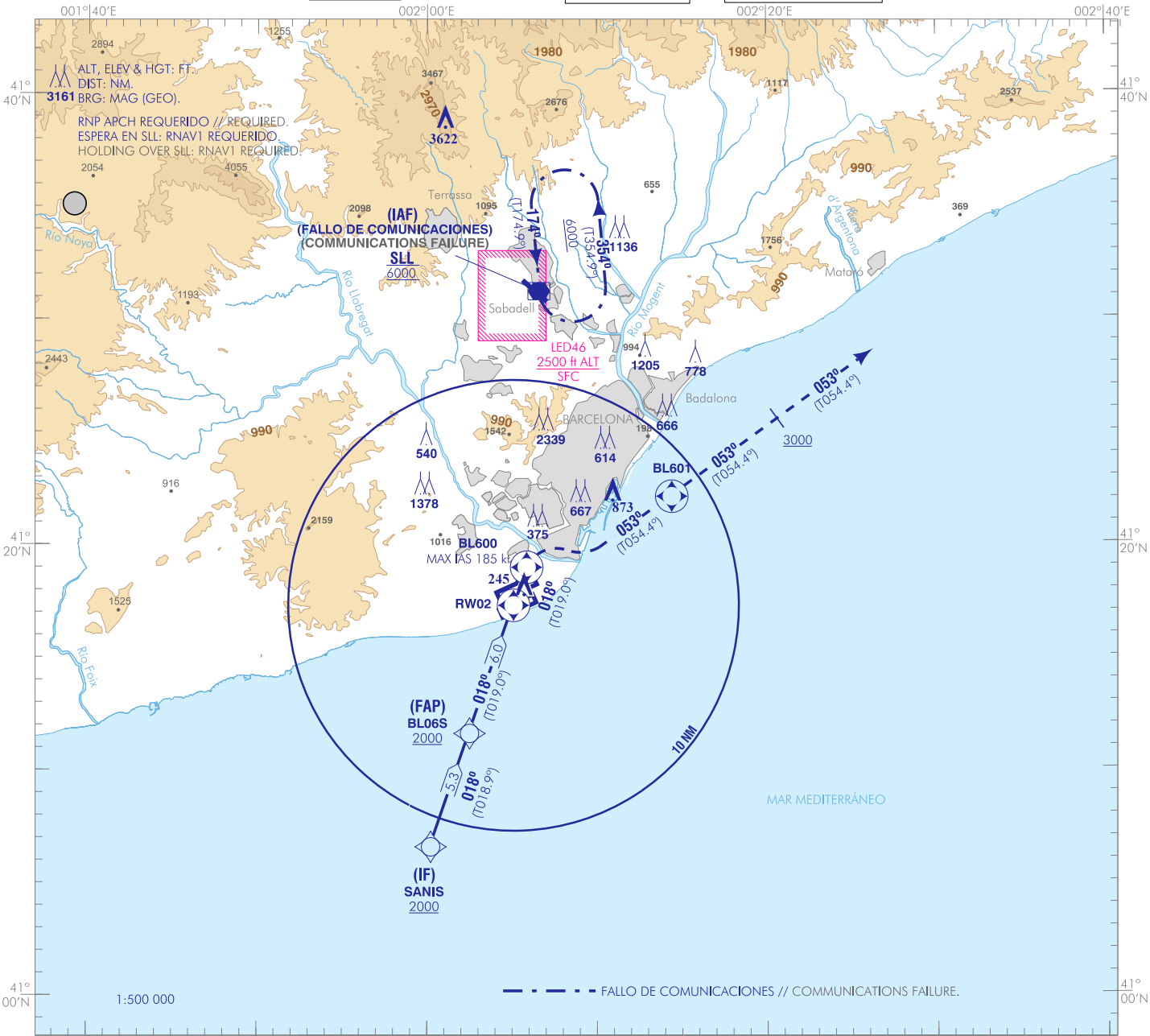
EGNOS  
CH89930  
E02A

ELEV AD  
14  
VAR 1°E (2020)

APP 119.105  
TWR 118.105  
ATIS 118.655

GMC N 121.705

RNP Z  
RWY 02 (LPV ONLY)



**FRUSTRADA:** SUBIR EN RUMBO MAGNÉTICO 018° HASTA BL600 (IAS MAX 185 kt), VIRAR A LA DERECHA HASTA BL601 EN RUMBO MAGNÉTICO 053° (IAS MAX 185 kt), ASCENSO EN DERROTA 053° A 3000 O SUPERIOR. CONTINUAR EN RUMBO MAGNÉTICO 053° Y ESPERAR VECTORES RADAR.

**FRUSTRADA FALLO DE COMUNICACIONES:** SUBIR EN RUMBO MAGNÉTICO 018° HASTA BL600 (IAS MAX 185 kt), VIRAR A LA DERECHA, HASTA BL601 EN RUMBO MAGNÉTICO 053° (IAS MAX 185 kt), ASCENSO EN DERROTA 053° A 4000 O SUPERIOR, VIRAR A LA IZQUIERDA (IAS MAX 185 kt), DIRECTO A DVOR/DME SLL A 6000 PARA INTEGRARSE A LA ESPERA.

**MISSED APCH:** CLIMB ON MAGNETIC HEADING 018° UP TO BL600 (MAX IAS 185 kt), TURN RIGHT UP TO BL601 ON MAGNETIC HEADING 053° (MAX IAS 185 kt), CLIMB ON TRACK 053° AT 3000 OR ABOVE. CONTINUE ON MAGNETIC HEADING 053° AND WAIT FOR RADAR VECTORS.

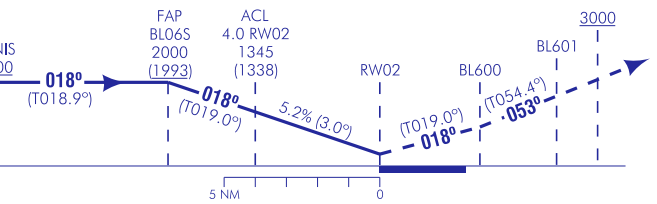
**MISSED APCH COMMUNICATIONS FAILURE:** CLIMB ON MAGNETIC HEADING 018° UP TO BL600 (MAX IAS 185 kt), TURN RIGHT TO BL601 ON MAGNETIC HEADING 053° (MAX IAS 185 kt), CLIMB ON TRACK 053° AT 4000 OR ABOVE, TURN LEFT (MAX IAS 185 kt), DIRECT TO DVOR/DME SLL AT 6000 TO JOIN TO THE HOLDING.

- NOTAS:
- SE REQUIERE UNA PENDIENTE MÍNIMA DE ASCENSO EN AMBAS FRUSTRADAS DEL 4.0 % PARA CUMPLIR SEPARACIÓN ENTRE ESPACIOS AÉREOS.
  - PARA EL TRAMO DE APROXIMACIÓN INICIAL REFERIRSE A LAS CARTAS DE TRANSICIÓN.
  - ESPEREN VECTORES RADAR PARA INTERCEPTAR EL RUMBO DE APROXIMACIÓN FINAL.
  - EL TRÁFICO EN FRUSTRADA MANTENDRÁ 3000 AL ALCANZAR, SALVO AUTORIZACIÓN ATC, POR MOTIVOS OPERACIONALES.

- NOTES:
- A MINIMUM CLIMBING GRADIENT OF 4.0% IS REQUIRED ON BOTH MISSED APPROACHES TO COMPLY WITH SEPARATION BETWEEN AIRSPACES.
  - FOR THE INITIAL APPROACH SEGMENT, REFER TO THE TRANSITION CHARTS.
  - AWAIT RADAR VECTORS TO INTERCEPT THE FINAL APPROACH HEADING.
  - TRAFFIC ON MISSED APPROACH SHALL MAINTAIN 3000 WHEN REACHING, EXCEPT ATC CLEARANCE, DUE TO OPERATIONAL REASONS.

HGT REF ELEV THR RWY 02

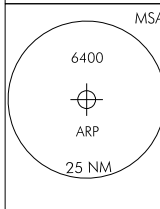
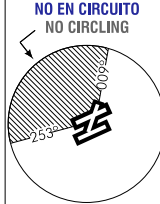
| OCA/H                                        |             | A            | B            | C              | D              |
|----------------------------------------------|-------------|--------------|--------------|----------------|----------------|
| STA                                          | LPV (CAT I) | 299<br>(292) | 311<br>(304) | 319<br>(312)   | 330<br>(323)   |
|                                              |             |              |              |                |                |
|                                              |             |              |              |                |                |
|                                              |             |              |              |                |                |
| En círculo (H) sobre<br>Circling (H) over 14 |             | 580<br>(570) | 700<br>(690) | 1080<br>(1070) | 1300<br>(1290) |



| GS              | kt     | 80   | 100  | 120  | 140  | 160  | 180  |
|-----------------|--------|------|------|------|------|------|------|
| FAP-THR: 6.0 NM | min:s  | 4:30 | 3:36 | 3:00 | 2:34 | 2:15 | 2:00 |
| FAF-MAPT:       | min:s  |      |      |      |      |      |      |
| ROD: 5.2 %      | ft/min | 425  | 531  | 637  | 743  | 849  | 955  |

| ALT/HGT RWY02 FNA |    |    |    |   |   |   |   |                |                |                |
|-------------------|----|----|----|---|---|---|---|----------------|----------------|----------------|
| 13                | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5              | 4              | 3              |
|                   |    |    |    |   |   |   |   | 1680<br>(1670) | 1350<br>(1340) | 1030<br>(1020) |

LPV RDH 51 TA 6000



CAMBIOS: CUADRO NO EN CIRCUITO, AD RESTRINGIDO.  
CHANGES: NO CIRCLING BOX, RESTRICTED AD.

BARCELONA/Josep Tarradellas Barcelona-EI Prat AD

REQUISITOS DE LA BASE DE DATOS AERONÁUTICA  
AERONAUTICAL DATABASE REQUIREMENTS

PROCEDIMIENTOS DE APROXIMACIÓN POR INSTRUMENTOS // INSTRUMENT APPROACH PROCEDURES

RNP Z RWY 02 (LPV ONLY)

| COORDENADAS WAYPOINTS // WAYPOINTS COORDINATES                                                                                                   |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| WPT                                                                                                                                              | COORD                      |
| BL06S (FAP)                                                                                                                                      | 41°11'35.3"N 002°02'30.3"E |
| BL600                                                                                                                                            | 41°18'57.2"N 002°05'51.6"E |
| BL601                                                                                                                                            | 41°22'06.0"N 002°14'24.4"E |
| RW02                                                                                                                                             | 41°17'15.9"N 002°05'05.4"E |
| SANIS (IF)                                                                                                                                       | 41°06'33.2"N 002°00'13.1"E |
| SLL (IAF FALLO DE COMUNICACIONES // COMMUNICATIONS FAILURE)                                                                                      | 41°31'12.0"N 002°06'35.1"E |
| Aproximación final de precisión (SBAS Cat. I) - Pendiente (Ángulo de descenso) // Precision final approach (SBAS Cat. I) - Slope (Descent angle) |                            |
| 5.24% (3.00°)                                                                                                                                    |                            |

| DESCRIPCIÓN TABULAR DEL PROCEDIMIENTO<br>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 °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 (°/ft) | Especificación de navegación<br>Navigation specification |
| 001                                                                     | IF                                           | SANIS                                                      | —                      | —                                     | -1.2                                      | —                          | —                                     | +2000                    | —                       | —              | RNP APCH                                                 |
| 002                                                                     | TF                                           | BL06S                                                      | —                      | 018 (018.9)                           | -1.2                                      | 5.3                        | —                                     | +2000                    | —                       | —              | RNP APCH                                                 |
| 003                                                                     | TF                                           | RW02                                                       | Y                      | 018 (019.0)                           | -1.2                                      | 6.0                        | —                                     | +58                      | —                       | 3.0/51         | RNP APCH                                                 |
| 004                                                                     | CF                                           | BL600                                                      | Y                      | 018 (019.0)                           | -1.2                                      | —                          | —                                     | —                        | -185                    | —              | RNP APCH                                                 |
| 005                                                                     | CF                                           | BL601                                                      | Y                      | 053 (054.4)                           | -1.2                                      | —                          | —                                     | —                        | -185                    | —              | RNP APCH                                                 |
| 006                                                                     | CA                                           | —                                                          | —                      | 053 (054.4)                           | -1.2                                      | —                          | —                                     | +3000                    | —                       | —              | RNP APCH                                                 |
| 007                                                                     | VM                                           | —                                                          | —                      | 053 (054.4)                           | -1.2                                      | —                          | —                                     | —                        | —                       | —              | RNP APCH                                                 |
| FRUSTRADA FALLO DE COMUNICACIONES // MISSED APCH COMMUNICATIONS FAILURE |                                              |                                                            |                        |                                       |                                           |                            |                                       |                          |                         |                |                                                          |
| 004                                                                     | CF                                           | BL600                                                      | Y                      | 018 (019.0)                           | -1.2                                      | —                          | —                                     | —                        | -185                    | —              | RNP APCH                                                 |
| 005                                                                     | CF                                           | BL601                                                      | Y                      | 053 (054.4)                           | -1.2                                      | —                          | —                                     | —                        | -185                    | —              | RNP APCH                                                 |
| 006                                                                     | CA                                           | —                                                          | —                      | 053 (054.4)                           | -1.2                                      | —                          | —                                     | +4000                    | -185                    | —              | RNP APCH                                                 |
| 007                                                                     | DF                                           | SLL                                                        | —                      | —                                     | -1.2                                      | —                          | L                                     | @6000                    | —                       | —              | RNP APCH                                                 |

| CIRCUITOS DE ESPERA // HOLDING PATTERN       |                                                            |                        |                                       |                                           |                                                                   |                                       |                                  |                                  |                         |                                                          |
|----------------------------------------------|------------------------------------------------------------|------------------------|---------------------------------------|-------------------------------------------|-------------------------------------------------------------------|---------------------------------------|----------------------------------|----------------------------------|-------------------------|----------------------------------------------------------|
| 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>Tiempo de alejamiento<br>Distance/<br>Outbound time | Dirección de viraje<br>Turn direction | Altitud MNM<br>MNM altitude (ft) | Altitud MAX<br>MAX altitude (ft) | Velocidad<br>Speed (kt) | Especificación de navegación<br>Navigation specification |
| HM                                           | SLL                                                        | —                      | 174 (174.9)                           | -1.2                                      | 1 MIN                                                             | L                                     | 6000                             | —                                | —                       | RNAV1                                                    |

| SBAS CAT I FAS DATA BLOCK                                                                                                                                                                                                |                                                |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------|
| FAS DATA BLOCK                                                                                                                                                                                                           |                                                |                |
| 1                                                                                                                                                                                                                        | OPERATION MODE                                 | 00             |
| 2                                                                                                                                                                                                                        | SERVICE PROVIDER IDENTIFIER                    | 01*            |
| 3                                                                                                                                                                                                                        | AIRPORT IDENTIFIER                             | LEBL           |
| 4                                                                                                                                                                                                                        | RUNWAY                                         | RW02           |
| 5                                                                                                                                                                                                                        | APPROACH PERFORMANCE DESIGNATOR                | 0**            |
| 6                                                                                                                                                                                                                        | ROUTE INDICATOR                                | Z              |
| 7                                                                                                                                                                                                                        | REFERENCE PATH DATA SELECTOR (RPDS)            | 00             |
| 8                                                                                                                                                                                                                        | REFERENCE PATH IDENTIFIER                      | E02A***        |
| 9                                                                                                                                                                                                                        | LANDING THRESHOLD POINT (LTP) – LATITUDE       | 411715.9310N   |
| 10                                                                                                                                                                                                                       | LANDING THRESHOLD POINT (LTP) – LONGITUDE      | 0020505.4060E  |
| 11                                                                                                                                                                                                                       | LTP HEIGHT ABOVE ELLIPSOID (HAE)               | +00511 (51.1m) |
| 12                                                                                                                                                                                                                       | FLIGHT PATH ALIGNMENT POINT (FPAP) – LATITUDE  | 411833.4600N   |
| 13                                                                                                                                                                                                                       | FLIGHT PATH ALIGNMENT POINT (FPAP) – LONGITUDE | 0020540.7800E  |
| 14                                                                                                                                                                                                                       | THRESHOLD CROSSING HEIGHT (TCH)                | 00015.40       |
| 15                                                                                                                                                                                                                       | TCH UNIT SELECTOR                              | 1              |
| 16                                                                                                                                                                                                                       | GLIDE PATH ANGLE                               | 03.00          |
| 17                                                                                                                                                                                                                       | COURSE WIDTH AT THRESHOLD                      | 105.00         |
| 18                                                                                                                                                                                                                       | LENGTH OFFSET                                  | 0000           |
| 19                                                                                                                                                                                                                       | HORIZONTAL ALERT LIMIT (HAL)                   | 40.0           |
| 20                                                                                                                                                                                                                       | VERTICAL ALERT LIMIT (VAL)                     | 35.0           |
| 21                                                                                                                                                                                                                       | PRECISION APPROACH PATH POINT CRC REMINDER     | C64E4370       |
| NON - FAS DATA BLOCK                                                                                                                                                                                                     |                                                |                |
| 22                                                                                                                                                                                                                       | ICAO CODE                                      | LE             |
| 23                                                                                                                                                                                                                       | LTP ORTHOMETRIC HEIGHT                         | +00020 (2.0m)  |
| 24                                                                                                                                                                                                                       | FPAP ORTHOMETRIC HEIGHT                        | +00036 (3.6m)  |
| <b>NOTAS // NOTES:</b><br>*: Este valor “01” identifica a EGNOS como proveedor de servicio. // This value “01” identifies EGNOS as service provider.<br>**: LPV.<br>***: “E” se refiere a EGNOS. // “E” refers to EGNOS. |                                                |                |

**INTENCIONADAMENTE EN BLANCO**  
**INTENTIONALLY BLANK**