EGNOS
CH83520
E18B

ELEV AD
1998 ft
VAR 0° (2020)

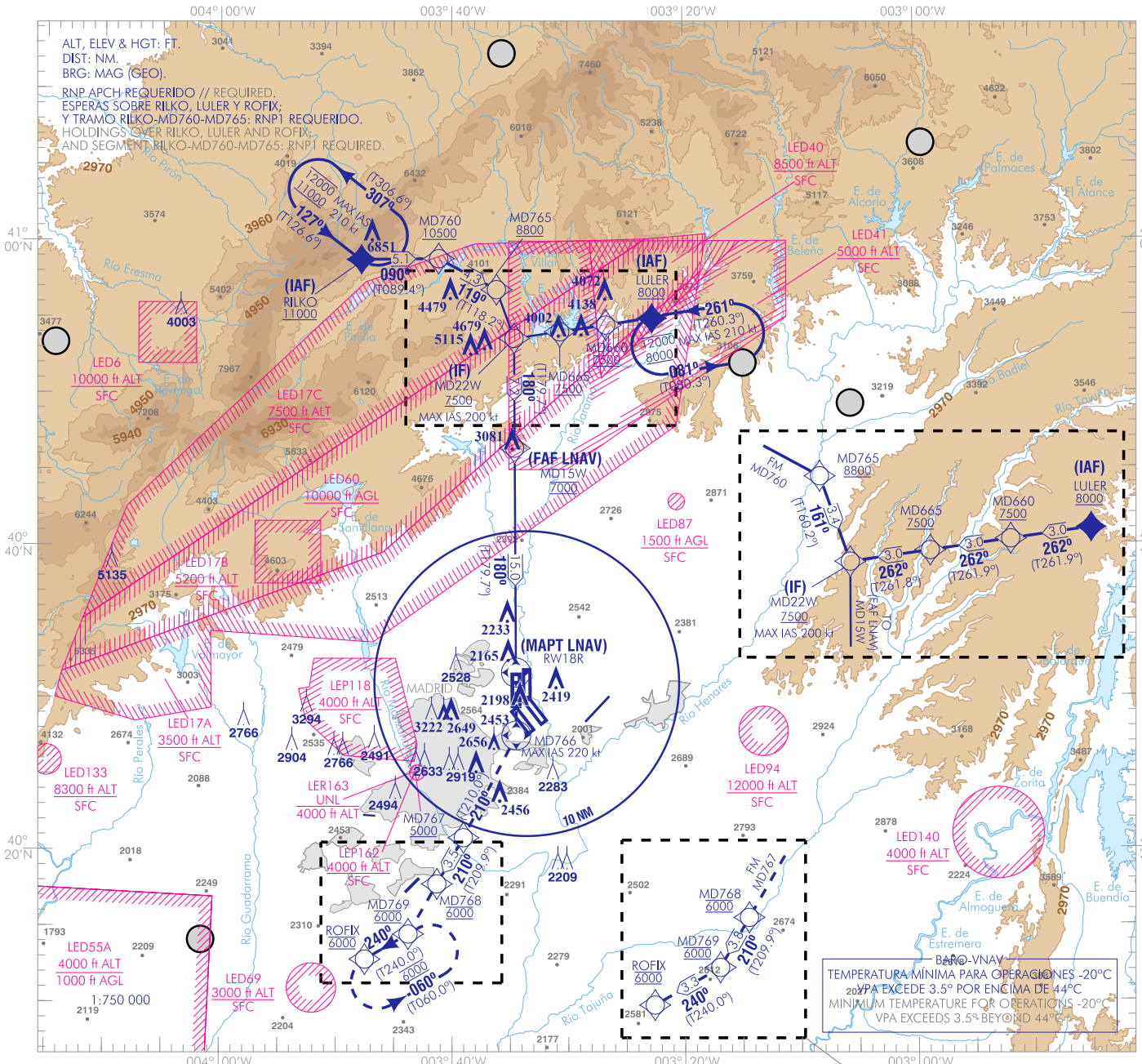
APP 134.955 C
128.700 MHz
127.100 MHz
127.505 C

TWR 118.080 C
ATIS 118.255 C

# MADRID/Adolfo Suárez Madrid-Barajas

RNP Y

## RWY 18R




**FRUSTRADA:** SUBIR EN CURSO MAGNÉTICO 180° A MD766. VIRAR A LA DERECHA IAS MAX 220 kt A MD767 EN CURSO MAGNÉTICO 210° A ALTITUD MÍNIMA 5000. A MD768 A 6000. A MD769 A 6000. VIRAR A LA DERECHA A ROFIX A 6000 PARA INTEGRARSE A LA ESPERA.

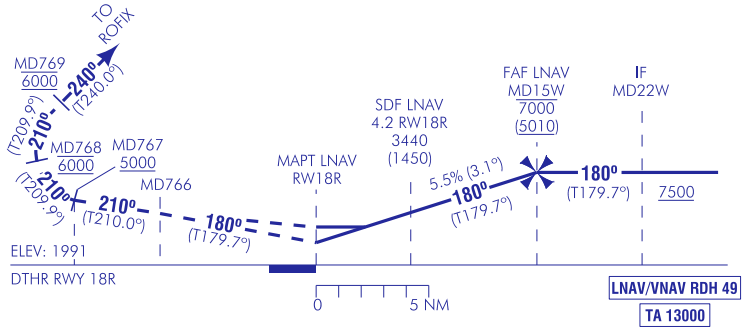
**MISSED APCH:** CLIMB ON MAGNETIC COURSE 180° TO MD766. TURN RIGHT MAX IAS 220 kt TO MD767 ON MAGNETIC COURSE 210° AT 5000 MINIMUM ALTITUDE. TO MD768 AT 6000. TO MD769 AT 6000. TURN RIGHT TO ROFIX AT 6000 TO JOIN THE HOLDING.

NOTAS:

- EN EL AREA BÁSICA ASOCIADA A LA ESPERA EN LULER Y EL TRAMO MD765-MD22W NO EXISTE SEPARACIÓN DE 1000 ft CON LA LED17C.
- NOTIFICAR A ATC SI LA FUNCIÓN FMS QUE PERMITE LA INTERCEPTACIÓN DE CURSO FINAL MEDIANTE VECTORES RADAR NO ESTÁ DISPONIBLE.
- AVISO: SE REQUIERE UNA PENDIENTE MÍNIMA DE ASCENSO EN FRUSTRADA DEL 4.5%, HASTA ALCANZAR 6000 DEBIDO A RESTRICCIONES DE ESPACIO AÉREO ÚNICAMENTE, EN CASO DE NO PODER ALCANZAR ESTA PENDIENTE COMUNICARLO AL ATC.

NOTES:

- THERE IS NO 1000 ft SEPARATION WITH LED17C IN THE BASIC AREA ASSOCIATED WITH HOLDING OVER LULER AND IN THE SEGMENT MD765-MD22W.
- REPORT ATC IF THE FMS FUNCTION ENABLING THE INTERCEPTION OF THE FINAL APPROACH HEADING AFTER RADAR VECTORS IS NOT AVAILABLE.
- WARNING: FOR MISSED APPROACH, A MINIMUM CLIMB GRADIENT OF 4.5% IS REQUIRED UP TO 6000 SOLELY DUE TO AIRSPACE RESTRICTIONS. IN THE EVENT THAT THIS GRADIENT CANNOT BE ACCOMPLISHED, INFORM ATC.




**HGT REF ELEV DTHR RWY 18R**

| OCA/H | | | A | B | C | D |
|---|---|---|---|---|---|---|
| STA | LNAV | 2.5% | 2460 (470) | | | |
| | LNAV/VNAV | 2.5% | 2350 (360) | 2360 (370) | 2380 (390) | 2380 (390) |
| | | | | | | |
| En circuito (H) sobre 1998 / Circling (H) over 1998 | | | 2720 (730) | 2860 (870) | 3280 (1290) | 3620 (1630) |

| GS | kt | 80 | 100 | 120 | 140 | 160 | 180 |
|---|---|---|---|---|---|---|---|
| FAF-THR: | min:s | | | | | | |
| FAF-MAPT: | min:s | | | | | | |
| ROD: 5.4 % | ft/min | 442 | 553 | 663 | 774 | 884 | 995 |

| ALT/HGT RWY18R FNA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 |
| 6690 (4700) | 6360 (4370) | 6030 (4030) | 5690 (3700) | 5360 (3360) | 5030 (3040) | 4700 (2710) | 4370 (2380) | 4040 (2040) | 3700 (1710) | 3370 (1380) | 3040 (1050) | 2710 (720) |

MSA
10000
ARP
25 NM

CAMBIOS: ELIMINACIÓN DE NOTA, AERÓDROMO RESTRINGIDO, OBSTÁCULOS.
CHANGES: NOTE REMOVAL, RESTRICTED AERODROME, OBSTACLES.

MADRID/Adolfo Suárez Madrid-Barajas AD

REQUISITOS DE LA BASE DE DATOS AERONÁUTICA
AERONAUTICAL DATABASE REQUIREMENTS

PROCEDIMIENTOS DE APROXIMACIÓN POR INSTRUMENTOS // INSTRUMENT APPROACH PROCEDURES

→ RNP Y RWY 18L

| COORDENADAS WAYPOINTS // WAYPOINTS COORDINATES | |
|---|---|
| WPT | COORD |
| LULER (IAF) | 40°54'50.3"N 003°22'42.0"W |
| MD15W (FAF LNAV) | 40°46'20.3"N 003°34'34.4"W |
| MD22W (IF) | 40°53'32.6"N 003°34'37.0"W |
| MD660 | 40°54'24.5"N 003°26'40.8"W |
| MD665 | 40°53'58.5"N 003°30'39.7"W |
| MD760 | 40°58'47.1"N 003°41'08.2"W |
| MD765 | 40°56'44.8"N 003°36'08.1"W |
| MD766 | 40°27'28.9"N 003°34'27.9"W |
| MD767 | 40°20'46.3"N 003°39'01.0"W |
| MD768 | 40°17'44.2"N 003°41'17.9"W |
| MD769 | 40°14'27.0"N 003°43'46.0"W |
| RILKO (IAF) | 40°58'44.1"N 003°47'48.6"W |
| ROFIX | 40°12'47.9"N 003°47'29.9"W |
| RW18R (MAPt LNAV) | 40°31'22.4"N 003°34'29.3"W |
| Aproximación final APV Baro (LNAV/VNAV) - Pendiente (Ángulo de descenso) // APV Baro final approach (LNAV/VNAV) - Slope (Descent angle) | 5.46% (3.12º) |
| Aproximación final de no precisión (LNAV) - Pendiente (Ángulo de descenso) // Non-precision final approach (LNAV) - Slope (Descent angle) | 5.46% (3.12º) |

DESCRIPCIÓN TABULAR DEL PROCEDIMIENTO
PROCEDURE TABULAR DESCRIPTION

| Número de serie Serial number | Descriptor de trayectoria Path Terminator | Identificador de punto de recorrido Waypoint identifier | Sobrevuelo Fly-over | Curso/Derrota Course/Track ºM (ºT) | Variación magnética Magnetic variation | Distancia Distance (NM) | Dirección de viraje Turn direction | Altitud Altitude (ft) | Velocidad Speed (kt) | VPA/TCH (º/ft) | Especificación de navegación Navigation specification |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **LULER (IAF)** | | | | | | | | | | | |
| 001 | IF | LULER | – | – | +0.4 | – | – | +8000 | – | – | RNP APCH |
| 002 | TF | MD660 | – | 262 (261.9) | +0.4 | 3.0 | – | +7500 | – | – | RNP APCH |
| 003 | TF | MD665 | – | 262 (261.9) | +0.4 | 3.0 | – | +7500 | – | – | RNP APCH |
| 004 | TF | MD22W | – | 262 (261.8) | +0.4 | 3.0 | – | +7500 | -200 | – | RNP APCH |
| 005 | TF | MD15W | – | 180 (179.7) | +0.4 | 7.2 | – | @7000 | – | – | RNP APCH |
| 006 | TF | RW18R | Y | 180 (179.7) | +0.4 | 15.0 | – | +2041 | – | 3.1 / 49 | RNP APCH |
| 007 | CF | MD766 | Y | 180 (179.7) | +0.4 | – | – | - | – | – | RNP APCH |
| 008 | CF | MD767 | – | 210 (210.0) | +0.4 | – | – | +5000 | -220 | – | RNP APCH |
| 009 | TF | MD768 | – | 210 (209.9) | +0.4 | 3.5 | – | @6000 | – | – | RNP APCH |
| 010 | TF | MD769 | – | 210 (209.9) | +0.4 | 3.8 | – | @6000 | – | – | RNP APCH |
| 011 | TF | ROFIX | – | 240 (240.0) | +0.4 | 3.3 | – | @6000 | – | – | RNP APCH |
| **RILKO (IAF)** | | | | | | | | | | | |
| 001 | IF | RILKO | – | - | +0.4 | - | – | +11000 | – | – | RNP 1 |
| 002 | TF | MD760 | – | 090 (089.4) | +0.4 | 5.1 | – | +10500 | – | – | RNP 1 |
| 003 | TF | MD765 | – | 119 (118.2) | +0.4 | 4.3 | – | +8800 | – | – | RNP 1 |
| 004 | TF | MD22W | – | 161 (160.2) | +0.4 | 3.4 | – | +7500 | -200 | – | RNP APCH |
| 005 | TF | MD15W | – | 180 (179.7) | +0.4 | 7.2 | – | @7000 | – | – | RNP APCH |
| 006 | TF | RW18R | Y | 180 (179.7) | +0.4 | 15.0 | – | +2041 | – | 3.1 / 49 | RNP APCH |
| 007 | CF | MD766 | Y | 180 (179.7) | +0.4 | – | – | - | – | – | RNP APCH |
| 008 | CF | MD767 | – | 210 (210.0) | +0.4 | – | – | +5000 | -220 | – | RNP APCH |
| 009 | TF | MD768 | – | 210 (209.9) | +0.4 | 3.5 | – | @6000 | – | – | RNP APCH |
| 010 | TF | MD769 | – | 210 (209.9) | +0.4 | 3.8 | – | @6000 | – | – | RNP APCH |
| 011 | TF | ROFIX | – | 240 (240.0) | +0.4 | 3.3 | – | @6000 | – | – | RNP APCH |

| CIRCUITOS DE ESPERA // HOLDING PATTERN | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Descriptor de trayectoria Path terminator | Identificador de punto de recorrido Waypoint identifier | Sobrevuelo Fly-over | Curso/Derrota Course/Track ºM (ºT) | Variación magnética Magnetic variation | Distancia/ Tiempo de alejamiento Distance/ Outbound time | Dirección de viraje Turn direction | Altitud MNM MNM altitude (ft) | Altitud MAX MAX altitude (ft) | Velocidad Speed (kt) | Especificación de navegación Navigation specification |
| HM | LULER | – | 261 (260.3) | +0.4 | 1 MIN | L | 8000 | 12000 | -210 | RNP1 |
| HM | RILKO | – | 127 (126.6) | +0.4 | 1 MIN | L | 11000 | 12000 | -210 | RNP1 |
| HM | ROFIX | – | 240 (240.0) | +0.4 | 1 MIN | L | 6000 | 6000 | – | RNP1 |