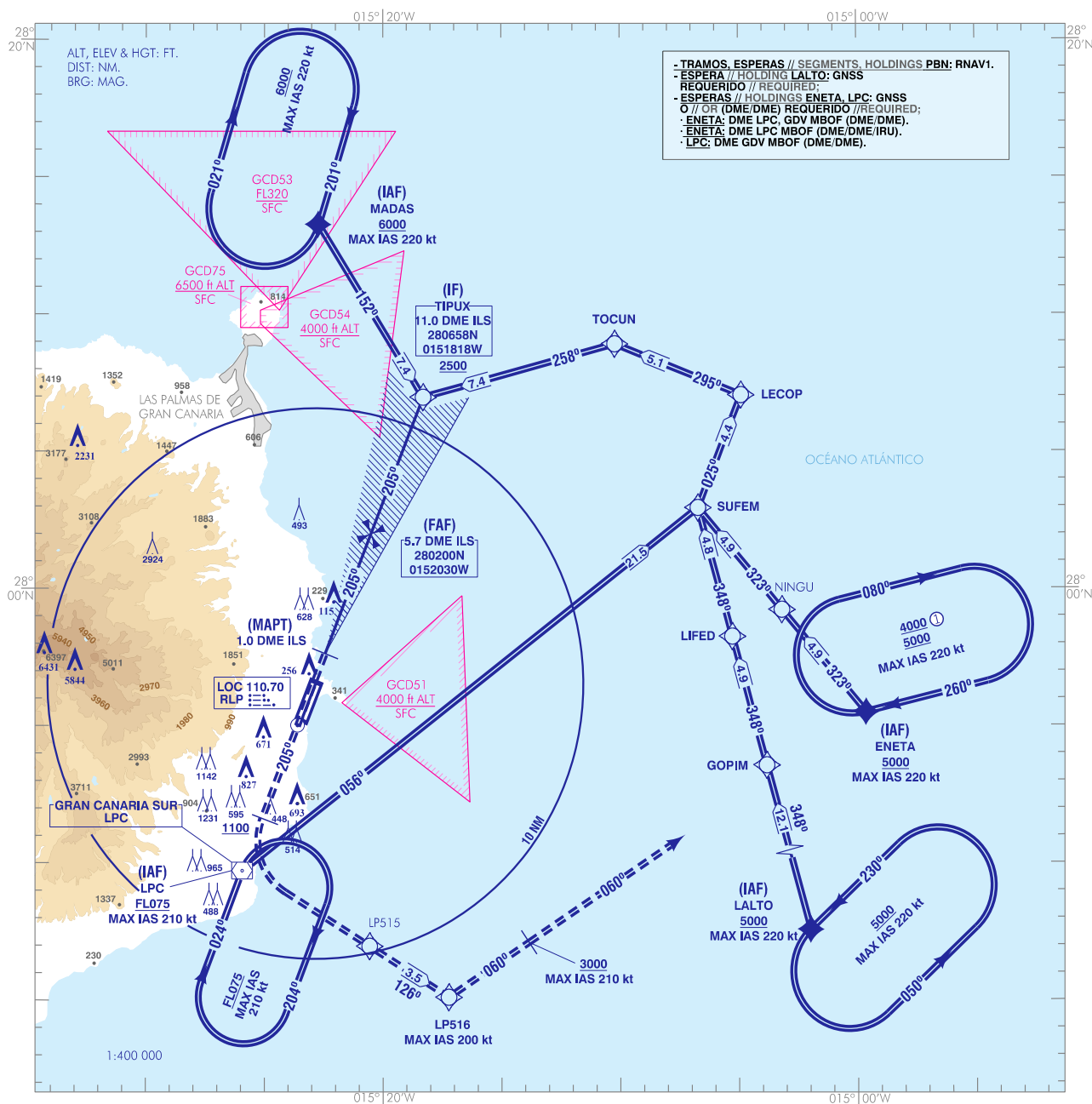


APP	124.300 MHz
TWR	118.300 MHz
GMC	121.700 MHz
ATIS	118.600 MHz

GRAN CANARIA
LOC Z
RWY 21R



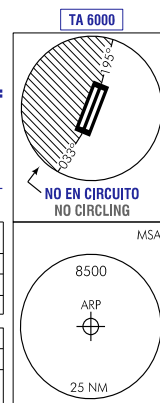
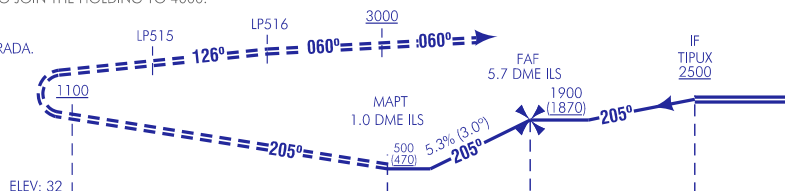
FRUSTRADA: SUBIR EN CURSO MAGNETICO 205° TO 1100 O SUPERIOR. VIRAR A LA IZQUIERDA DIRECTO A LP515. A LP516 (IAS MAX 200 kt). VIRAR A LA IZQUIERDA PARA CONTINUAR EN CURSO MAGNETICO 060° (IAS MAX 210 kt) A 3000 O SUPERIOR. CONTINUAR EN CURSO MAGNETICO 060° Y ESPERAR VECTORES RADAR.

FRUSTRADA FALLO DE COMUNICACIONES: SUBIR EN CURSO MAGNETICO 205° A 1100 O SUPERIOR. VIRAR A LA IZQUIERDA DIRECTO A LP515. A LP516 (IAS MAX 200 kt). A LP517 (IAS MAX 210 kt) A 3000. A ENETA (IAS MAX 220 kt) PARA INCORPORARSE A LA ESPERA A 4000.

MISSED APCH: CLIMB ON MAGNETIC COURSE 205° TO 1100 OR ABOVE. TURN LEFT DIRECT TO LP515. TO LP516 (MAX IAS 200 kt). TURN LEFT TO CONTINUE ON MAGNETIC COURSE 060° (MAX IAS 210 kt) TO 3000 OR ABOVE. CONTINUE ON MAGNETIC COURSE 060° AND WAIT FOR RADAR VECTORING.

MISSED APCH COMMUNICATIONS FAILURE: CLIMB ON MAGNETIC COURSE 205° TO 1100 OR ABOVE. TURN LEFT DIRECT TO LP515. TO LP516 (MAX IAS 200 kt). TO LP517 (MAX IAS 210 kt) TO 3000. TO ENETA (MAX IAS 220 kt) TO JOIN THE HOLDING TO 4000.

NOTAS:
① BAJO AUTORIZACIÓN ATC Y FRUSTRADA.
NOTES:
① UNDER ATC CLEARANCE AND MISSED APPROACH.



HGT REF ELEV THR RWY 21R		THR RWY 21R			
OCA/H		A	B	C	D
STA	2.5%	500 (470)			
En circuito (H) sobre Circling (H) over 77		990 (920)		1240 (1170)	1330 (1260)

GS		kt	80	100	120	140	160	180
FAP-THR: 5.7 NM		min:s	4:16	3:25	2:51	2:26	2:08	1:54
FAF-MAPT:		min:s	NO AUTORIZADO EL CRONOMETRAJE // TIMING NOT AUTHORIZED					
ROD: 5.3 %		f/min	426	532	639	745	852	958

ALT/HGT DME (ILS) FNA												
13	12	11	10	9	8	7	6	5	4	3	2	1
								1680 (1650)	1370 (1330)	1050 (1010)	730 (690)	

AERONAUTICAL DATABASE REQUIREMENTS

INSTRUMENT APPROACH PROCEDURES
LOC Z RWY 21R

WAYPOINTS COORDINATES

WPT	COORD
ENETA (IAF)	275529.6N 0145938.4W
GOPIM	275333.0N 0150349.2W
NINGU	275912.9N 0150310.6W
LALTO (IAF)	274153.2N 0150014.3W
LECOP	280702.3N 0150453.7W
LIFED	275814.5N 0150515.9W
LP515	274657.6N 0152033.9W
LP516	274506.0N 0151713.6W
LP517	274706.0N 0151351.0W
LPC (IAF)	274942.7N 0152556.1W
MADAS (IAF)	281315.5N 0152244.1W
SUFEM	280255.9N 0150642.7W
TIPUX (IF)	280657.6N 0151818.2W
TOCUN	280853.9N 0151013.0W

POINT	LAT	LONG	TRUE BEARING	DME DISTANCE (NM)
IF	280657.6N	0151818.2W	021.44° (LOC RLP)	11.0 DME ILS
FAF	280200.3N	0152029.9W	021.44° (LOC RLP)	5.69 DME ILS
MAPt	275737.7N	0152226.2W	021.44° (LOC RLP)	1.00 DME ILS
Non-precision final approach - Slope (Descent angle)				5.26% (3.01°)

CRITICAL DME

FACILITY (ID)	FREQ/CH	COORD
GRAN CANARIA (GDV)	112.90 MHz CH 76X	280437.6297N 0152542.8144W
GRAN CANARIA SUR (LPC)	115.00 MHz CH 97X	274943.2149N 0152555.9428W

NOTES APPLICABLE TO ALL APPROACHES:

- Initial segments, missed apch and holdings: RNAV1.
- Speed control:
 - a. MAX IAS 250 kt to FL100 or below, except military flights on operational or air defence missions or when the operational characteristics do not allow for it.
 - b. If any different instructions are not received by ATC cross:
 - MADAS, ENETA and LALTO at 220 kt,
 - TIPUX at 210 kt,
 - 9.0 DME ILS at IAS 190 kt, and
 - 4.0 DME ILS at IAS 160 kt.

c. In the event of being unable to comply with it (b), notify it to ATC at the first communication.

PROCEDURE TABULAR DESCRIPTION

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
ENETA (IAF) required. Subject to GCD51 and GCD54 activity.											
001	IF	ENETA	-	-	+3.5	-	-	+5000 (1)	-220	-	RNAV1
002	TF	NINGU	-	323 (319.9)	+3.5	4.9	-	-	-	-	RNAV1
003	TF	SUFEM	-	323 (319.8)	+3.5	4.9	-	-	-	-	RNAV1
004	TF	LECOP	-	025 (021.4)	+3.5	4.4	-	-	-	-	RNAV1
005	TF	TOCUN	-	295 (291.5)	+3.5	5.1	-	-	-	-	RNAV1
006	TF	TIPUX	-	258 (254.9)	+3.5	7.4	-	+2500	-	-	RNAV1
MISSED APCH											
001	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNAV1
002	DF	LP515	-	-	+3.5	-	-	-	-	-	RNAV1
003	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNAV1
004	CA	-	-	060 (056.3)	+3.5	-	-	+3000	-210	-	RNAV1
005	VM	-	-	060 (056.3)	+3.5	-	-	-	-	-	RNAV1
MISSED APCH COMMUNICATIONS FAILURE											
001	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNAV1
002	DF	LP515	-	-	+3.5	-	-	-	-	-	RNAV1
003	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNAV1
004	TF	LP517	-	060 (056.3)	+3.5	3.6	-	@3000	-210	-	RNAV1
005	TF	ENETA	-	060 (056.3)	+3.5	15.1	-	@4000	-220	-	RNAV1
Minimum altitude 4000 ft under ATC clearance and missed approach.											

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
LALTO (IAF) required. Subject to GCD51 and GCD54 activity.											
001	IF	LALTO	-	-	+3.5	-	-	+5000	-220	-	RNAV1
002	TF	GOPIM	-	348 (344.7)	+3.5	12.1	-	-	-	-	RNAV1
003	TF	LIFED	-	348 (344.7)	+3.5	4.9	-	-	-	-	RNAV1
004	TF	SUFEM	-	348 (344.7)	+3.5	4.8	-	-	-	-	RNAV1
005	TF	LECOP	-	025 (021.4)	+3.5	4.4	-	-	-	-	RNAV1
006	TF	TOCUN	-	295 (291.5)	+3.5	5.1	-	-	-	-	RNAV1
007	TF	TIPUX	-	258 (254.9)	+3.5	7.4	-	+2500	-	-	RNAV1
MISSED APCH											
001	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNAV1
002	DF	LP515	-	-	+3.5	-	-	-	-	-	RNAV1
003	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNAV1
004	CA	-	-	060 (056.3)	+3.5	-	-	+3000	-210	-	RNAV1
005	VM	-	-	060 (056.3)	+3.5	-	-	-	-	-	RNAV1
MISSED APCH COMMUNICATIONS FAILURE											
001	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNAV1
002	DF	LP515	-	-	+3.5	-	-	-	-	-	RNAV1
003	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNAV1
004	TF	LP517	-	060 (056.3)	+3.5	3.6	-	@3000	-210	-	RNAV1
005	TF	ENETA	-	060 (056.3)	+3.5	15.1	-	@4000	-220	-	RNAV1

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
LPC (IAF) required. Subject to GCD51 and GCD54 activity.											
001	IF	LPC	-	-	+3.5	-	-	+FL075	-210	-	RNAV1
002	TF	SUFEM	-	056 (052.2)	+3.5	21.5	-	-	-	-	RNAV1
003	TF	LECOP	-	025 (021.4)	+3.5	4.4	-	-	-	-	RNAV1
004	TF	TOCUN	-	295 (291.5)	+3.5	5.1	-	-	-	-	RNAV1
005	TF	TIPUX	-	258 (254.9)	+3.5	7.4	-	+2500	-	-	RNAV1
MISSED APCH											
001	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNAV1
002	DF	LP515	-	-	+3.5	-	-	-	-	-	RNAV1
003	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNAV1
004	CA	-	-	060 (056.3)	+3.5	-	-	+3000	-210	-	RNAV1
005	VM	-	-	060 (056.3)	+3.5	-	-	-	-	-	RNAV1
MISSED APCH COMMUNICATIONS FAILURE											
001	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNAV1
002	DF	LP515	-	-	+3.5	-	-	-	-	-	RNAV1
003	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNAV1
004	TF	LP517	-	060 (056.3)	+3.5	3.6	-	@3000	-210	-	RNAV1
005	TF	ENETA	-	060 (056.3)	+3.5	15.1	-	@4000	-220	-	RNAV1

Serial number	Path Terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navegation specification
MADAS (IAF) required. Subject to GCD51 and GCD54 activity.											
001	IF	MADAS	-	-	+3.5	-	-	+6000	-220	-	RNAV1
002	TF	TIPUX	-	152 (148.0)	+3.5	7.4	-	+2500	-	-	RNAV1
MISSED APCH											
001	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNAV1
002	DF	LP515	-	-	+3.5	-	-	-	-	-	RNAV1
003	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNAV1
004	CA	-	-	060 (056.3)	+3.5	-	-	+3000	-210	-	RNAV1
005	VM	-	-	060 (056.3)	+3.5	-	-	-	-	-	RNAV1
MISSED APCH COMMUNICATIONS FAILURE											
001	CA	-	-	205 (201.4)	+3.5	-	-	+1100	-	-	RNAV1
002	DF	LP515	-	-	+3.5	-	-	-	-	-	RNAV1
003	TF	LP516	-	126 (122.1)	+3.5	3.5	-	-	-200	-	RNAV1
004	TF	LP517	-	060 (056.3)	+3.5	3.6	-	@3000	-210	-	RNAV1
005	TF	ENETA	-	060 (056.3)	+3.5	15.1	-	@4000	-220	-	RNAV1

HOLDING PATTERN

Path terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
HM	ENETA (1)	260 (256.4)	+3.5	1	R	5000 (2)	-	-220	RNAV1
HM	LALTO (3)	230 (226.4)	+3.5	1	L	5000	-	-220	RNAV1
HM	LPC (4)	024 (021.0)	+3.5	1	R	FL075	-	-210	RNAV1

Path terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
HM	MADAS (5)	201 (197.3)	+3.5	1	R	6000	-	-220	RNAV1
(1) GNSS or (DME/DME) or (DME/DME/IRU) required; - DME LPC, GDV must be operational for (DME/DME). - DME LPC must be operational for (DME/DME/IRU). (2) Minimum altitude 4000 ft under ATC clearance and missed APCH. (3) GNSS required. (4) GNSS o (DME/DME) required; - DME LPC must be operational for (DME/DME). (5) Subject to GCD53 and GCD75 activity.									