

Page 1

Changed chart(s) since Disc 22-2010

ADD = Added chart, REV = Revised chart, DEL = Deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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Girona, (Girona - LEGE)

ADD	BAGUR 2F, KANIG, MAMUK & S...	10-2	12 ïŸ 2010	18 ïŸ 2010
ADD	BAGUR 1L, KANIG 2K, MAMUK ...	10-2A	12 ïŸ 2010	18 ïŸ 2010
ADD	BAGUR, KANIG, MAMUK & SAB...	10-2B	12 ïŸ 2010	18 ïŸ 2010
ADD	BAGUR, KANIG & MAMUK 1DC...	10-2C	12 ïŸ 2010	18 ïŸ 2010

TERMINAL CHART NOTAMs

No Chart NOTAMs for Airport LEGE

General Info

Girona, ESP

N 41° 54.0' E 02° 45.6' Mag Var: 1.3°W

Elevation: 469'

Public, IFR, Control Tower, Customs, Landing Fee

Pattern Altitude: 1500 feet AGL

Fuel: 100LL, Jet A-1

Time Zone Info: GMT+1:00 uses DST

Runway Info

Runway 02-20 7874' x 148' asphalt

Runway 02 (16.0°M) TDZE 403'

Lights: Edge, ALS, Centerline, REIL

Runway 20 (196.0°M) TDZE 469'

Lights: Edge, ALS, Centerline, REIL, TDZ

Displaced Threshold Distance 525'

Communications InfoATIS **128.75**Girona Tower **118.5**Girona Ground Control **121.7**Girona Approach Control **120.9****Notebook Info**

LEGE/GRO
GIRONA

JEPPesen

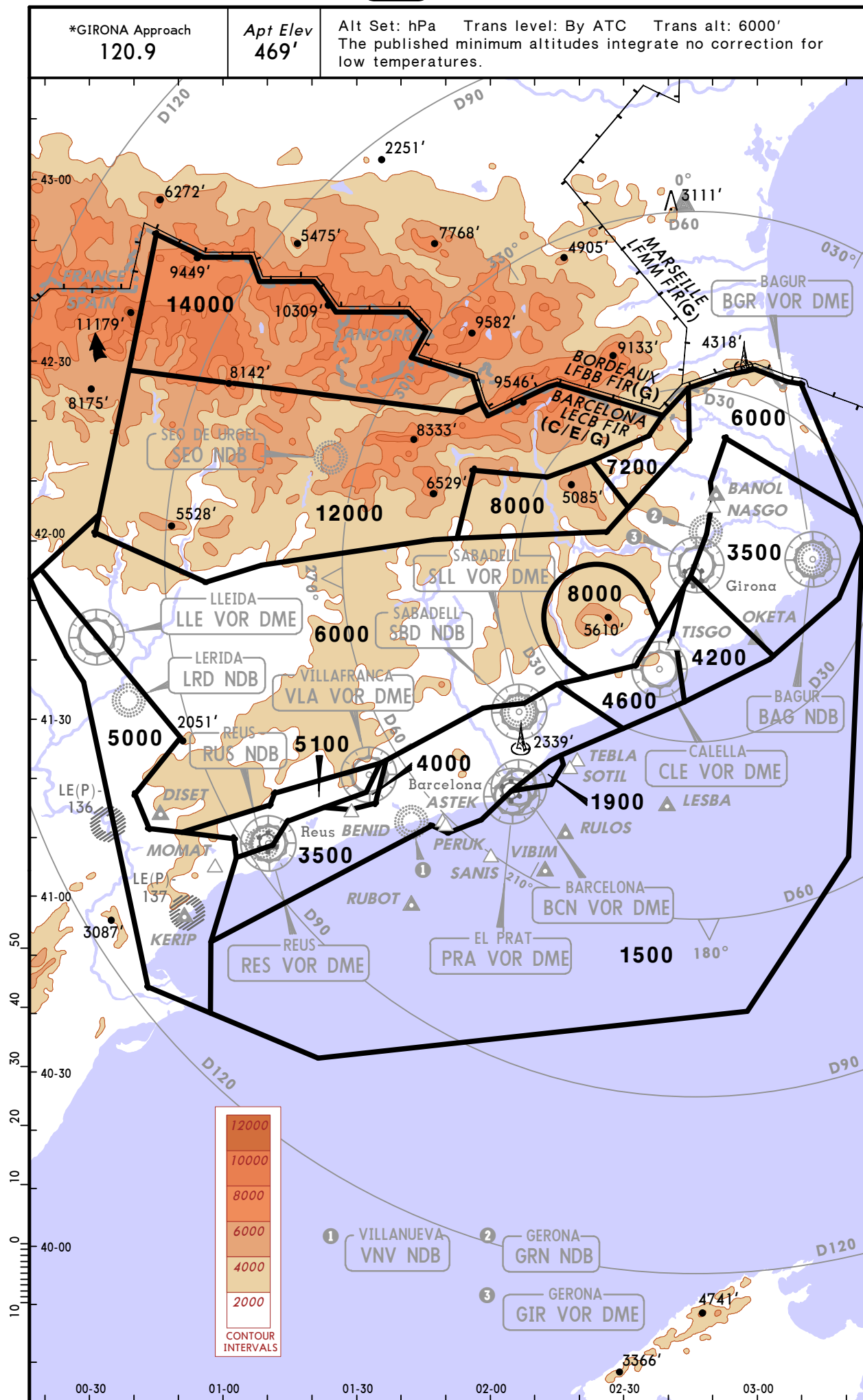
1 JAN 10

10-1R

Eff 14 Jan

RADAR MINIMUM ALTITUDES

GIRONA, SPAIN



CHANGES: Sectors revised.

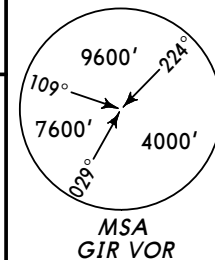
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LEGE/GRO
GIRONA

JEPPESEN
 12 NOV 10 **10-2** **Eff 18 Nov**

GIRONA, SPAIN
STAR

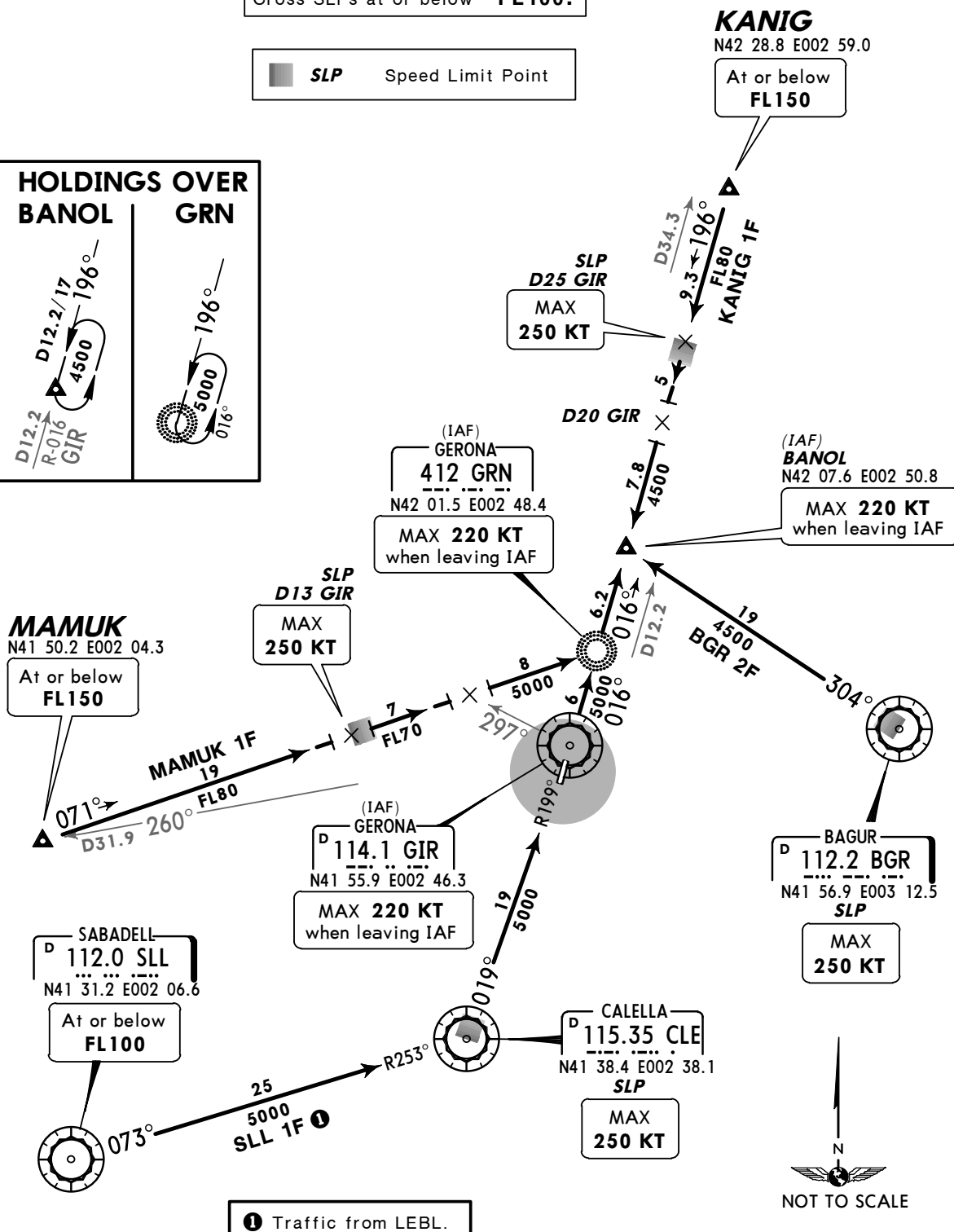
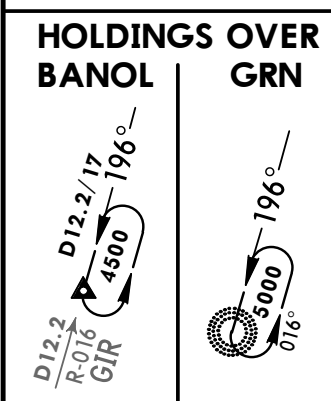
*ATIS **128.75** Apt Elev **469'** Alt Set: hPa Trans level: By ATC Trans alt: 6000'



BAGUR TWO FOXTROT (BGR 2F)
KANIG ONE FOXTROT (KANIG 1F)[KAN11F]
MAMUK ONE FOXTROT (MAMUK 1F)[MAMU1F]
SABADELL ONE FOXTROT (SLL 1F)
RWY 20 ARRIVALS

DESCENT PLANNING
 Cross SLPs at or below **FL100**.

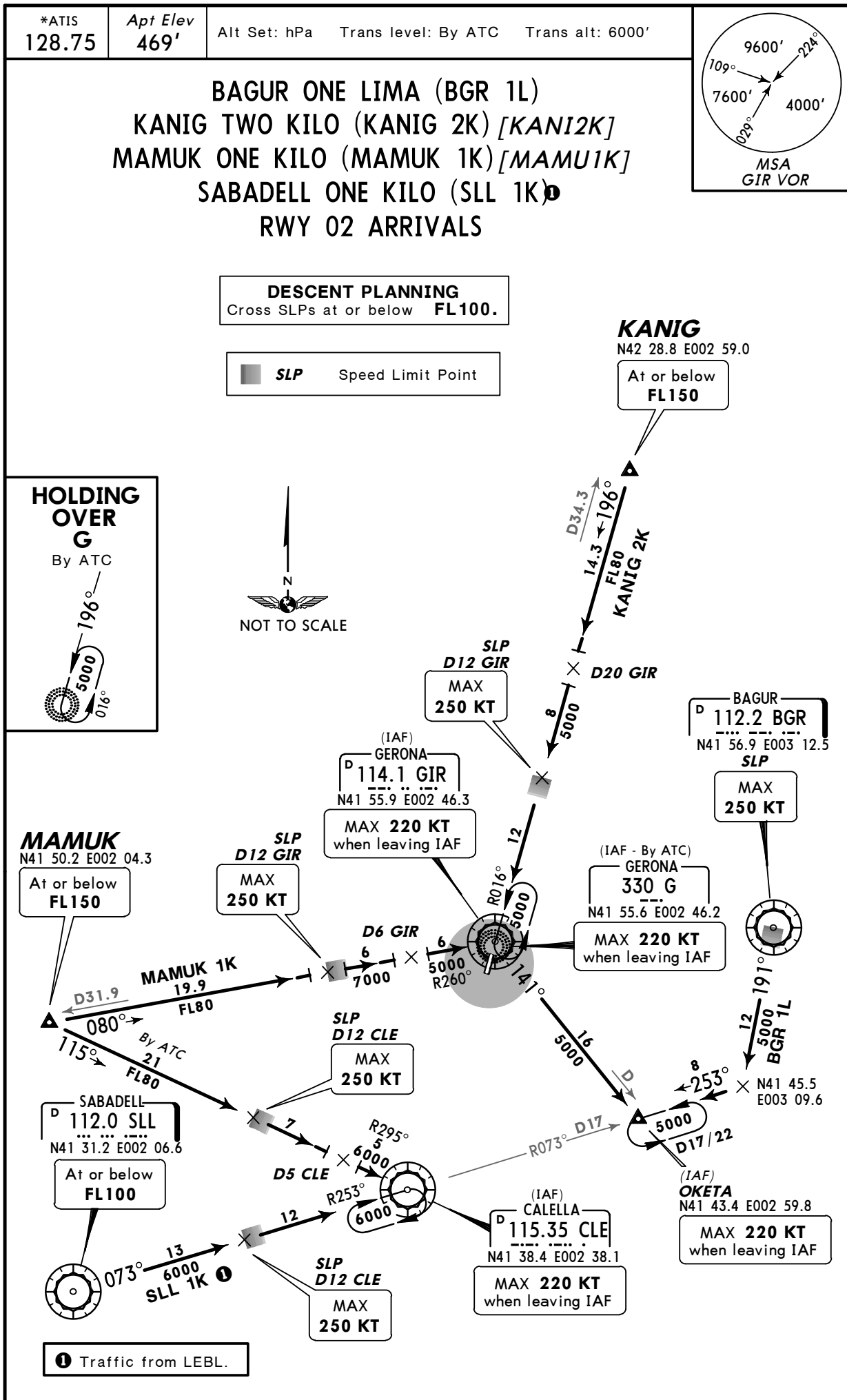
SLP Speed Limit Point



LEGE/GRO
GIRONA

JEPPESEN
 12 NOV 10 **(10-2A)** **Eff 18 Nov**

GIRONA, SPAIN
STAR

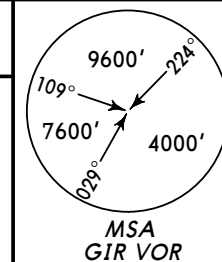


LEGE/GRO
GIRONA

JEPPESSEN
12 NOV 10 **10-2B** **Eff 18 Nov**

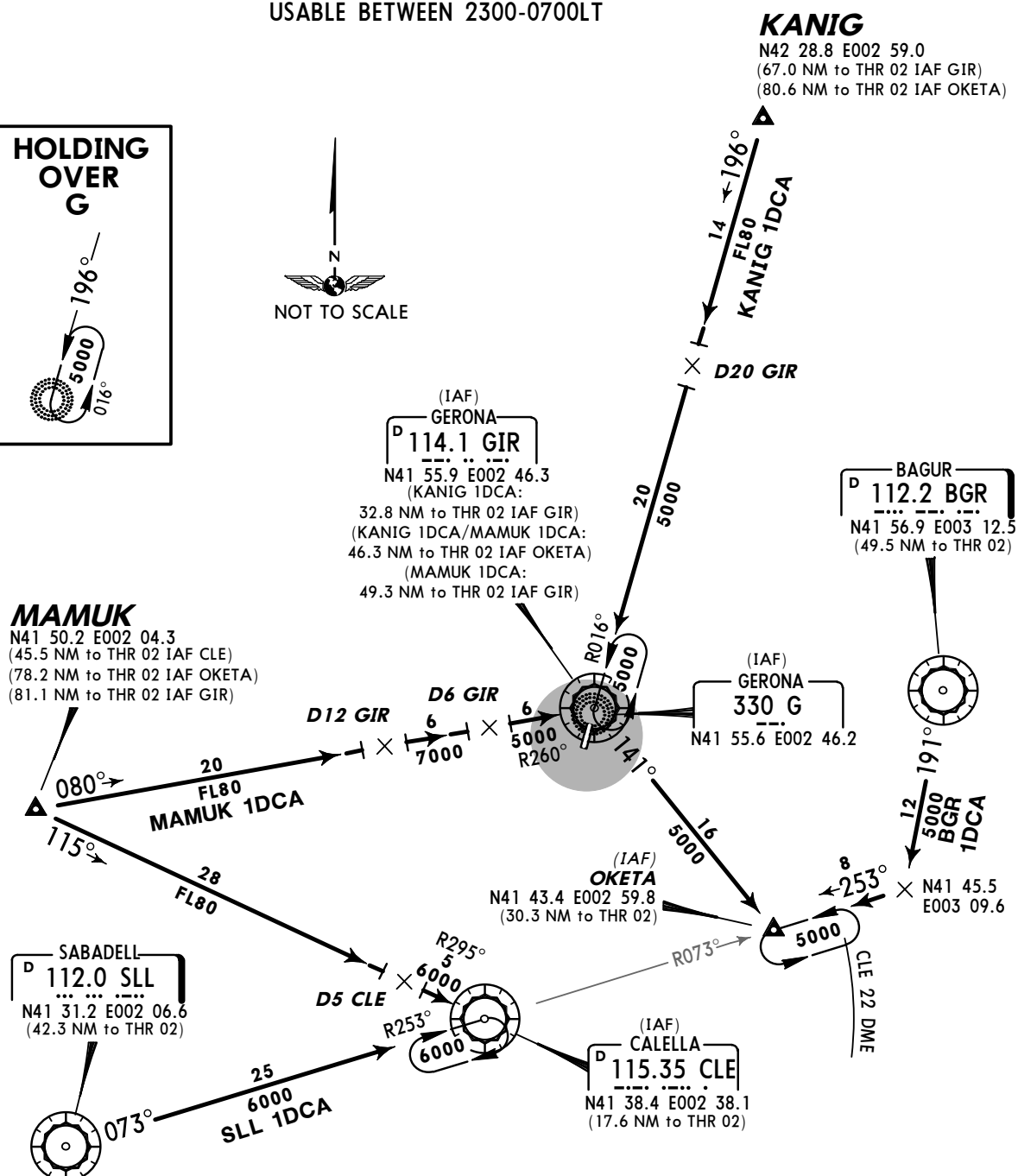
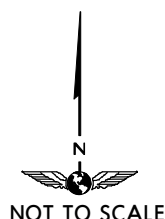
GIRONA, SPAIN
STAR

*ATIS 128.75	Apt Elev 469'	Alt Set: hPa Trans level: By ATC Trans alt: 6000'
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BAGUR ONE DELTA CHARLIE ALFA
(BGR 1DCA) [BG1DCA]
KANIG ONE DELTA CHARLIE ALFA
(KANIG 1DCA) [KA1DCA]
MAMUK ONE DELTA CHARLIE ALFA
(MAMUK 1DCA) [MA1DCA]
SABADELL ONE DELTA CHARLIE ALFA
(SLL 1DCA) [SL1DCA]
RWY 02 CONTINUOUS DESCENT ARRIVALS (CDA)
BY ATC
USABLE BETWEEN 2300-0700LT

HOLDING OVER G

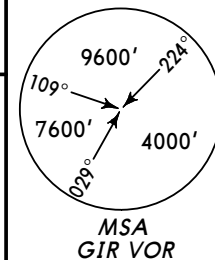


LEGE/GRO
GIRONA

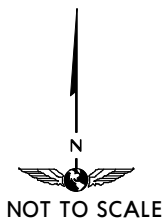
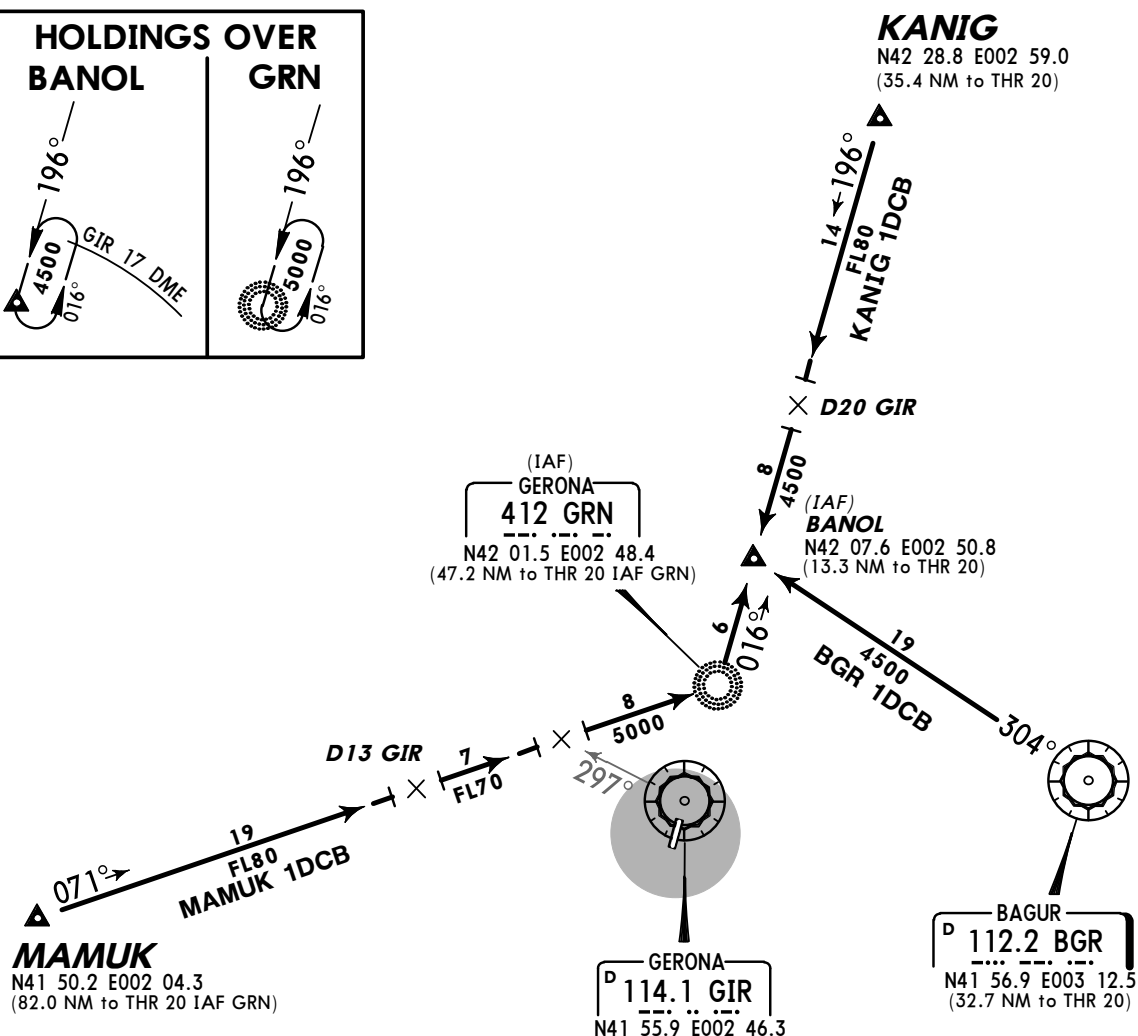
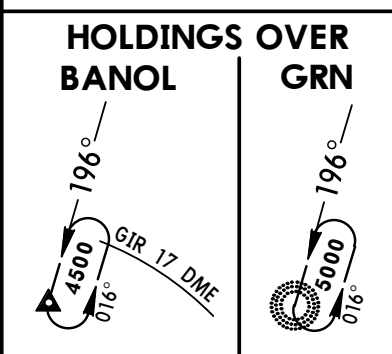
JEPPESEN
 12 NOV 10 **10-2C** **Eff 18 Nov**

GIRONA, SPAIN
STAR

*ATIS 128.75	Apt Elev 469'	Alt Set: hPa Trans level: By ATC Trans alt: 6000'
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BAGUR ONE DELTA CHARLIE BRAVO
 (BGR 1DCB) [*BG1DCB*]
KANIG ONE DELTA CHARLIE BRAVO
 (KANIG 1DCB) [*KA1DCB*]
MAMUK ONE DELTA CHARLIE BRAVO
 (MAMUK 1DCB) [*MA1DCB*]
RWY 20 CONTINUOUS DESCENT ARRIVALS (CDA)
 BY ATC
 USABLE BETWEEN 2300-0700LT



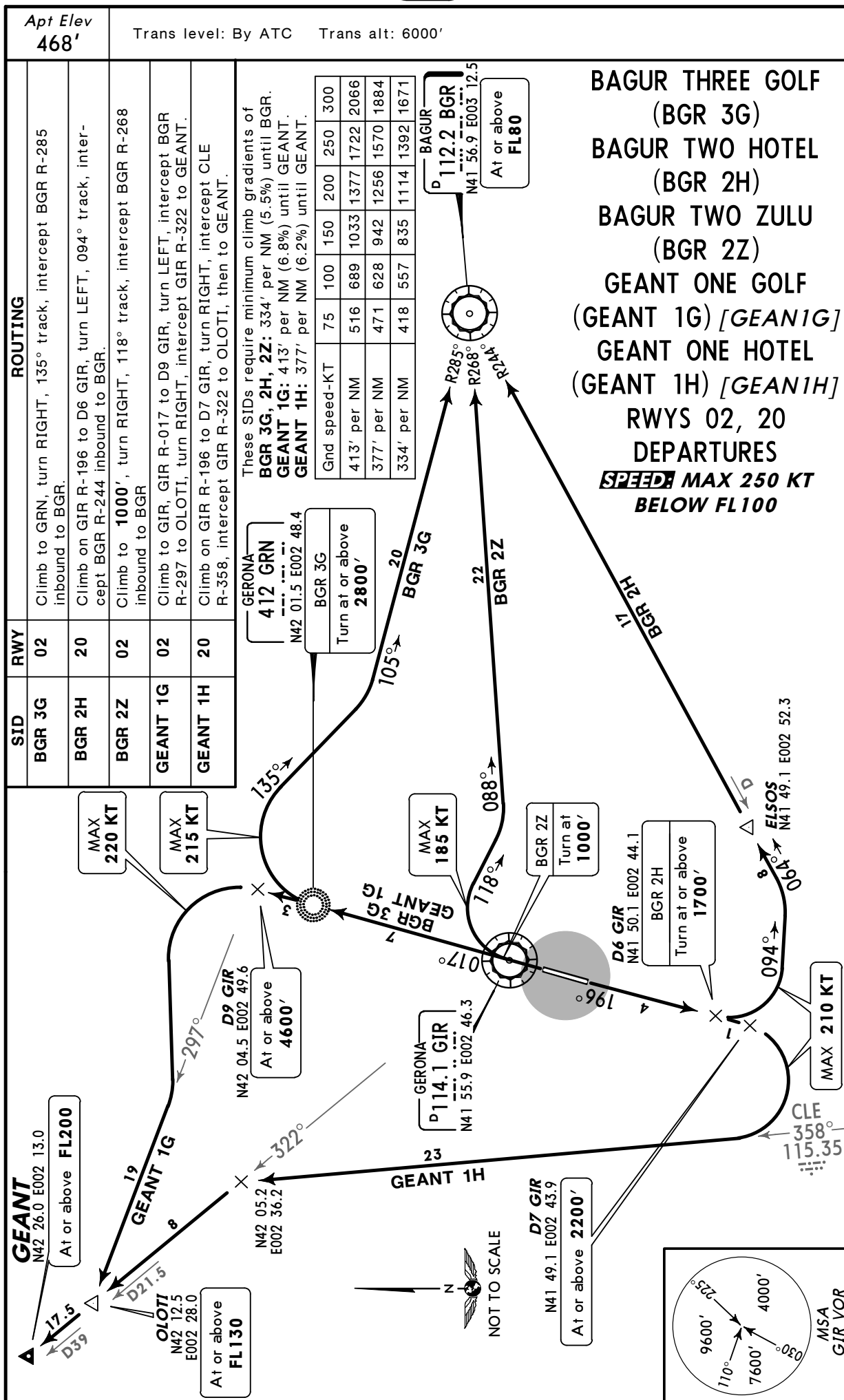
LEGE/GRO
GIRONA

GIRONA, SPAIN

14 OCT 05

10-3

Eff 27 Oct

SID

CHANGES: SIDs completely revised.

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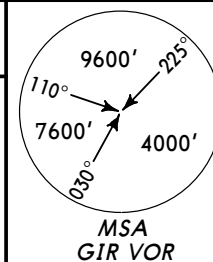
LEGE/GRO
GIRONA

JEPPESSEN
 14 OCT 05 **(10-3A)** **Eff 27 Oct**

GIRONA, SPAIN
SID

Apt Elev
 468'

Trans level: By ATC Trans alt: 6000'



MAMUK ONE GOLF (MAMUK 1G)[MAMU1G]
MAMUK ONE HOTEL (MAMUK 1H)[MAMU1H]
 RWYS 02, 20 DEPARTURES
~~SPEED~~ MAX 250 KT BELOW FL100

MAX
 215 KT



MAMUK
 N41 50.2 E002 04.3
 At or above
FL75

D8 GIR
 N42 03.6 E002 49.3
 At or above
3500'

GERONA
P114.1 GIR
 N41 55.9 E002 46.3

D16 GIR
 N41 40.7 E002 39.4
 At or above
4200'

CALELLA
P115.35 CLE
 N41 38.4 E002 38.1

These SIDs require minimum climb gradients
 of
MAMUK 1G: 340' per NM (5.6%) until leaving **4500'**.
MAMUK 1H: 273' per NM (4.5%) until leaving **FL75**.

Gnd speed-KT	75	100	150	200	250	300
340' per NM	425	567	851	1134	1418	1701
273' per NM	342	456	684	911	1139	1367

SID	RWY	ROUTING
MAMUK 1G	02	Climb on GIR R-017 to D8 GIR, turn LEFT, along GIR 10 DME arc, intercept GIR R-260 to MAMUK.
MAMUK 1H	20	Intercept and climb on GIR R-200 to D16 GIR, turn RIGHT, intercept CLE R-295 to MAMUK.

LEGE/GRO

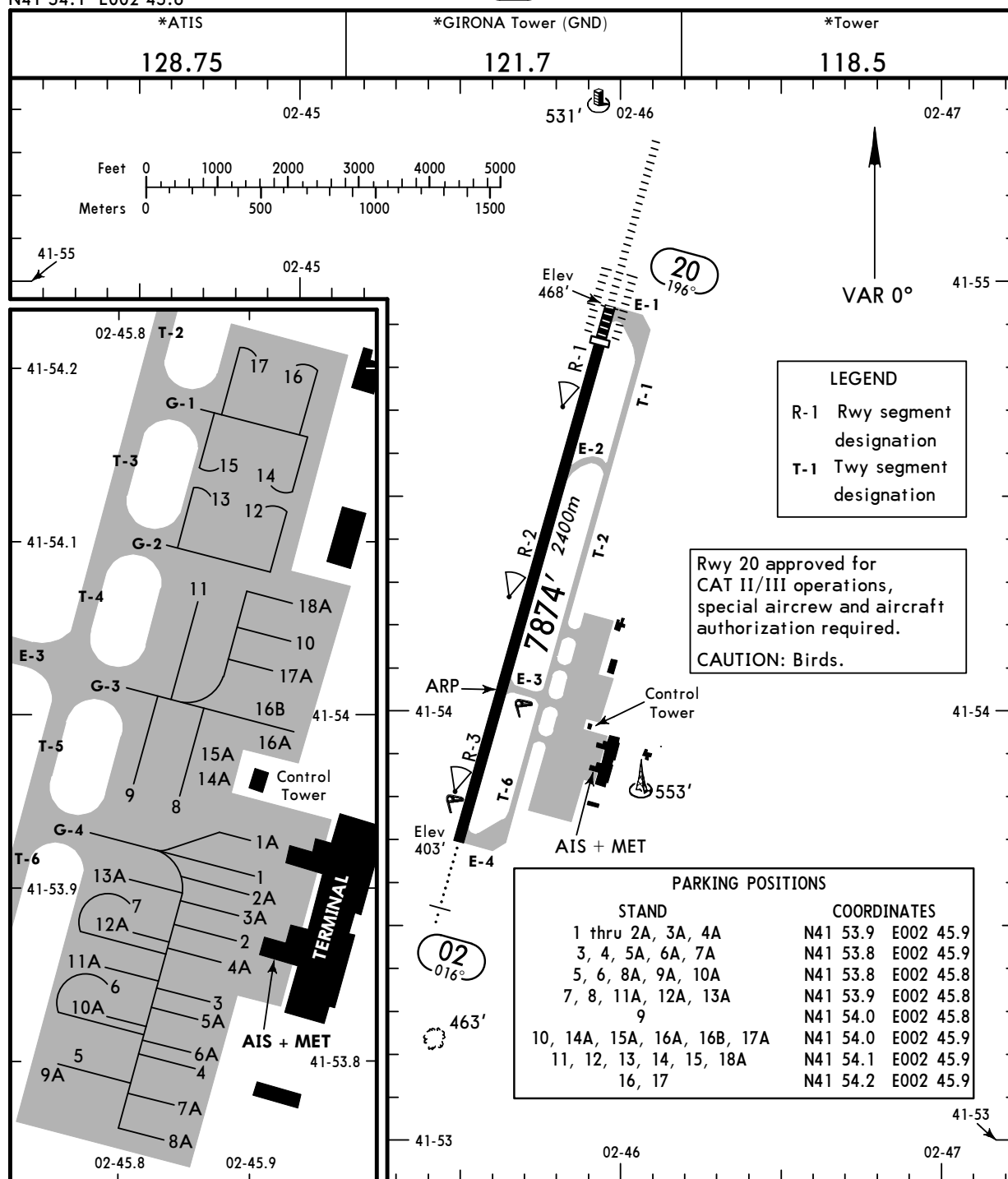
Apt Elev **469'**
N41 54.1 E002 45.6

JEPPesen

16 JUL 10 **(10-9)** Eff 29 Jul

GIRONA, SPAIN

GIRONA



ADDITIONAL RUNWAY INFORMATION

ADDITIONAL RUNWAY INFORMATION										
RWY							USABLE LENGTHS		TAKE-OFF	WIDTH
							LANDING BEYOND			
							Threshold	Glide Slope		
02	HIRL (50m) CL (15m) HIALS REIL PAPI(3.0°) RVR									148'
20	HIRL (50m) CL (15m) HIALS-II TDZ REIL ① RVR						7349' 2240m	6195' 1888m		45m

① PAPI (3.0°)

Standard

TAKE-OFF ①

	LVP must be in force				
	Approved Operators HIRL, CL & mult. RVR req	RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL
A					
B	125m	150m	200m	250m	400m
C					500m
D	150m	200m	250m	300m	

① Operators applying U.S. Ops Specs: CL required below 300m; approved guidance system required below 150m.

LEGE/GRO **JEPPESEN**
16 JUL 10 **10-9A** **Eff 29 Jul****GIRONA, SPAIN**
GIRONA**LOW VISIBILITY PROCEDURES (LVP)****GENERAL**

LVP will be applied

- when RVR of any transmissometer or same VIS is 600m or below,
- when ceiling is 250'/75m or below,
- when rapid deterioration of meteorological conditions recommends so.

Pilots will be informed about the application of LVP by ATIS or radiofrequency.

RVR values will be supplied by ATC via ATIS or radiofrequency according to the following:

- RVR ALPHA: RVR value at TDZ,
- RVR BRAVO: RVR value at rwy midpoint,
- RVR CHARLIE: RVR value at rwy end.

LVP will be cancelled

- when RVR of all transmissometers or same VIS is greater than 800m,
- when ceiling is 300'/90m,
- when the improvement tendency of meteorological conditions is strong.

GROUND MOVEMENT

When LVP is in force only one movement of an acft in the manoeuvring area will be authorized at the same time. Twys E-2 and E-3 and gate G-3 will be closed. Pilots will proceed to verify at every moment the acft position, especially in intersections, checking that taxiing is being executed under total safety conditions. In case of being disoriented or in doubt, pilots will stop the acft, immediately notify TWR and request "Follow-me" assistance.

Only one movement of an acft in the apron will be authorized at the same time. Autonomous or push-back exits from the stands will not be authorized while other acft is taxiing in the apron.

ARRIVALS

When leaving the rwy, pilots will notify:

- a) Rwy vacated.
- b) Sensitive area vacated.
- c) Twy used.

Once in the apron, acft will notify stand and frequency out.

DEPARTURES

Pilots will notify:

- a) Parking position.
- b) Push-back requests if this is the case.
- c) The start of taxiing towards gates G-1, G-2 or G-4. In case of VIS below 150m the "Follow-me" vehicle will proceed to guide the acft to the corresponding gate.
- d) Twy used.
- e) Entry in rwy.

COMMUNICATIONS FAILURE

Departing acft will continue the assigned route to its clearance limit, taking extreme caution to avoid detours, then hold position and wait for the arrival of a "Follow-me" in order to be guided to the parking position or holding bay designated.

Arriving acft will hold position in the first segment of twy where the sensible area of ILS is vacated and wait for the arrival of a "Follow-me" in order to be guided to the parking position designated.

LEGE/GRO **JEPPESEN**
9 OCT 09 **10-9X** Eff 22 Oct**JAA MINIMUMS**
GIRONA, SPAIN
GIRONA

STRAIGHT-IN RWY		A	B	C	D
02	VOR	850' (447')	850' (447')	850' (447')	850' (447')
		R1300m	R1400m	R1600m	R1800m
	ALS out	R1500m	R1500m	R1800m	R2000m
	Lctr	950' (547')	950' (547')	950' (547')	950' (547')
20		R1500m	R1500m	R1800m	R2000m
	ALS out	R1500m	R1500m	R2000m	R2000m
	CAT 3B ILS	approved	approved	approved	approved
	CAT 3A ILS	RA50' R200m	RA50' R200m	RA50' R200m	RA50' R200m
	CAT 2 ILS	604' (135')	621' (152')	633' (164')	647' (178')
		RA202'R400m	RA204'R450m	RA204'R450m	RA206'R450m
	ILS	691' (222')	703' (234')	711' (242')	722' (253')
		R600m	R600m	R600m	R650m
	ALS out	R1000m	R1000m	R1000m	R1200m
	LOC	900' (431')	900' (431')	900' (431')	900' (431')
		R900m	R1000m	R1000m	R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	VOR	930' (461')	930' (461')	930' (461')	930' (461')
		R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m
	NDB	950' (481')	950' (481')	950' (481')	950' (481')
		R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m

CIRCLE-TO-LAND	100 KT	135 KT	180 KT	205 KT
	1090' (621')	1390' (921')	1590' (1121')	2130' (1661')
	V1500m	V1600m	V2400m	V3600m

TAKE-OFF RWY 02, 20

	LVP must be in Force				RCLM (DAY only) or RL	NIL (DAY only)
	Approved Operators HIRL, CL & mult. RVR req	RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL		
A	125m	150m	200m	250m	400m	500m
B						
C						
D	150m	200m	250m	300m		

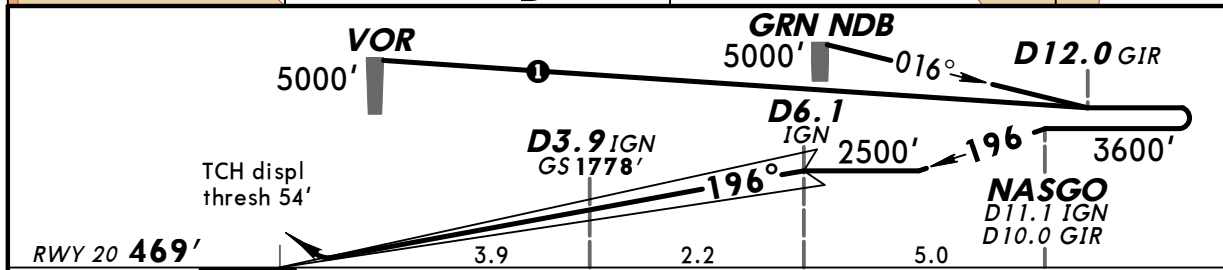
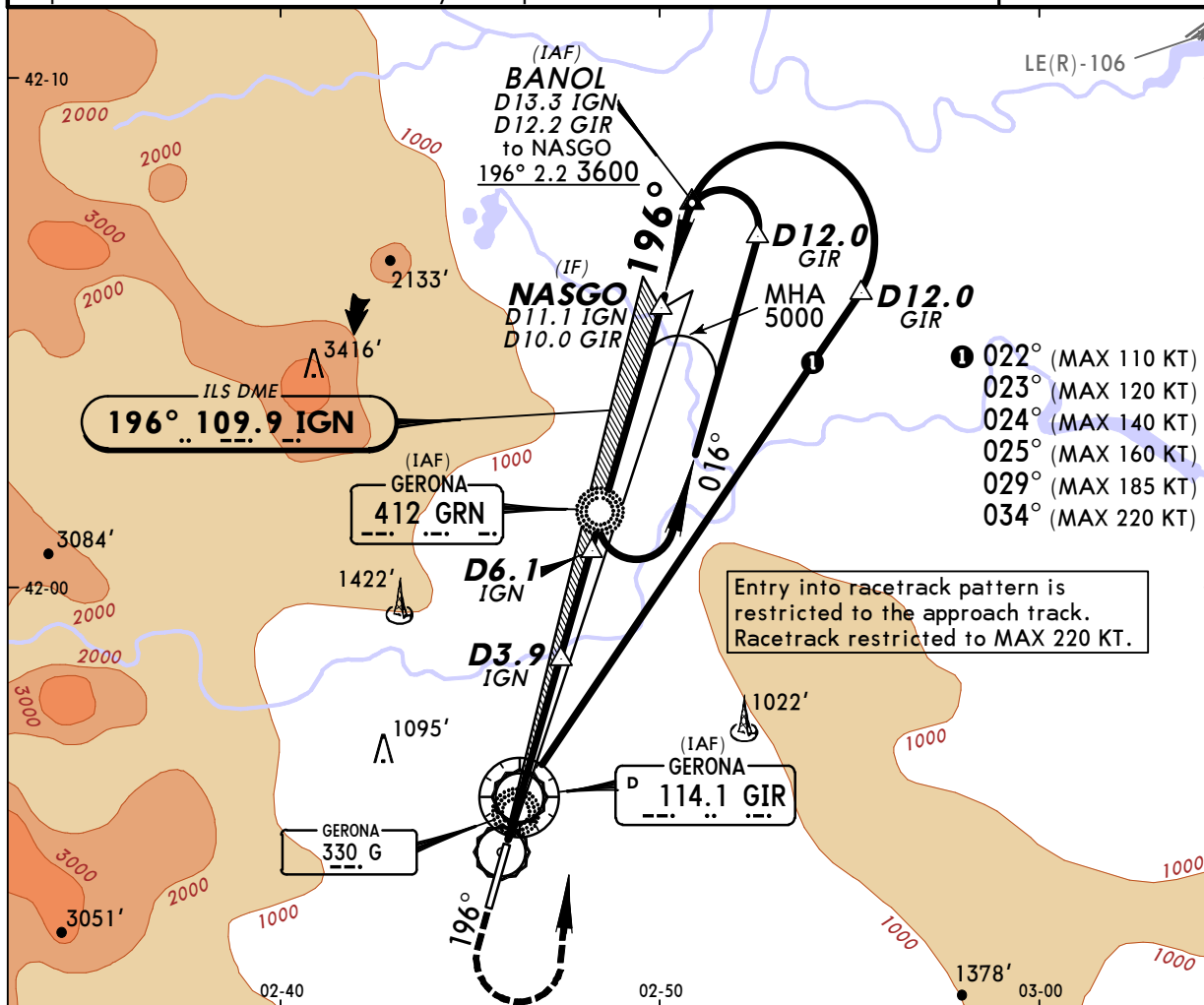
LEGE/GRO GIRONA

JEPPesen
16 JUL 10 **(11-1)** Eff 29 Jul

GIRONA, SPAIN CAT I/II ILS Rwy 20

BRIEFING STRIP

*ATIS 128.75		*GIRONA Approach 120.9		*GIRONA Tower 118.5		*Ground 121.7	
LOC IGN 109.9	Final Apch Crs 196°	GS D3.9 IGN 1778' (1309')	CAT I & II ILS Refer to Minimums		Apt Elev 469' RWY 469'	 MSA GRN NDB	
MISSED APCH: Climb on 196° from GRN NDB to 3500', then turn LEFT to GRN NDB climbing to 5000' and hold. Do not turn before passing rwy 20 displaced threshold.							
Alt Set: hPa Rwy Elev: 17 hPa Trans level: By ATC Trans alt: 6000' 1. VOR, ADF & DME required. 2. CAT II ILS: Special Aircrew & Aircraft Certification Required. 3. ILS DME reads zero at rwy 20 displaced threshold.							



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	3500'	196°
GS	3.00°	377	484	538	646	753	REIL PAPI	↑	from GRN 412

Standard	CAT II ILS	STRAIGHT-IN LANDING RWY 20	CAT I ILS	CIRCLE-TO-LAND
A RA 202' DA(H) 604'(135')	B RA 204' DA(H) 621'(152')	C RA 204' DA(H) 633'(164')	D RA 206' DA(H) 647'(178')	A: 691'(222') B: 703'(234') C: 711'(242') D: 722'(253')
A RVR 400m	B RVR 400m	C RVR 450m	D RVR 450m	Max Kts 100 135 180 205 MDA(H) 1090'(621') 1390'(921') 1590'(1121') 2130'(1661')

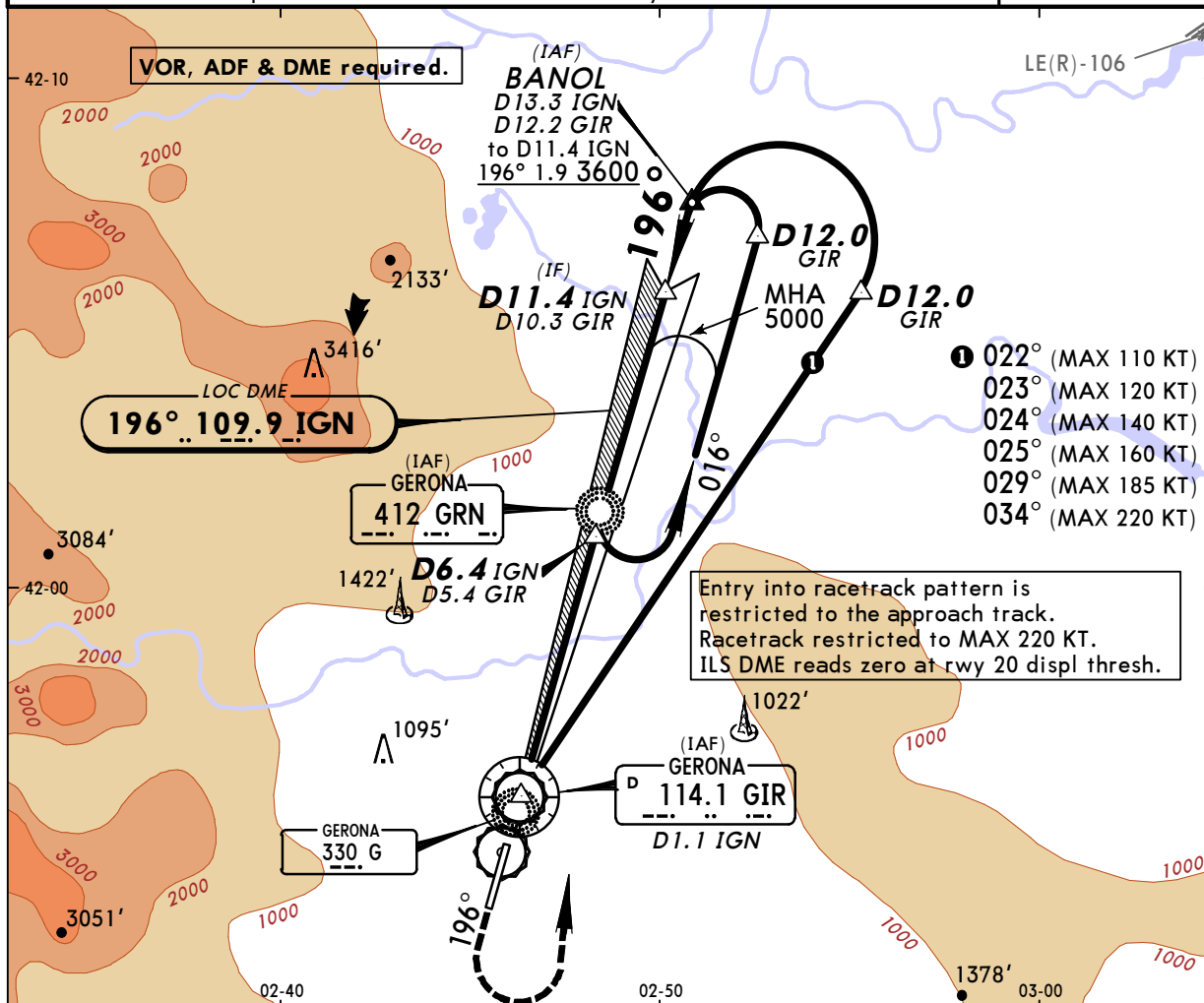
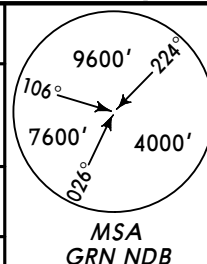
LEGE/GRO GIRONA

JEPPesen
16 JUL 10 **11-2** Eff 29 Jul

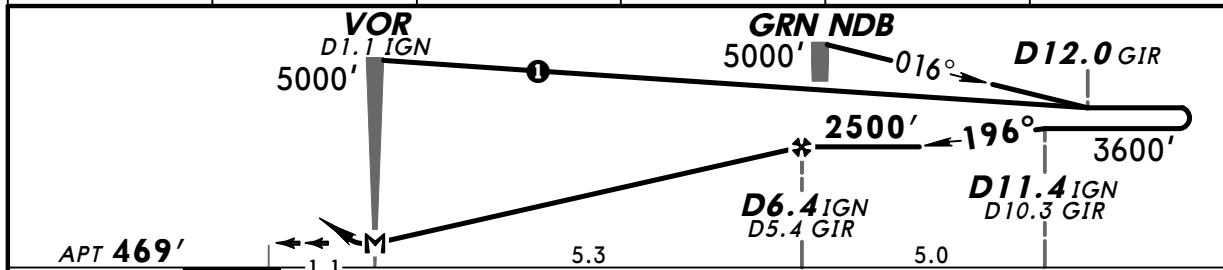
GIRONA, SPAIN LOC Rwy 20

BRIEFING STRIP

*ATIS 128.75	*GIRONA Approach 120.9	*GIRONA Tower 118.5	*Ground 121.7
LOC IGN 109.9	Final Apch Crs 196°	Minimum Alt D6.4 IGN 2500' (2031')	DA(H) 900' (431')
MISSED APCH: Climb on 196° from GRN NDB to 3500', then turn LEFT to GRN NDB climbing to 5000' and hold. Do not turn before passing MAP.			Apt Elev 469'
Alt Set: hPa	Apt Elev: 17 hPa	Trans level: By ATC	Trans alt: 6000'



IGN DME	2.0	3.0	4.0	5.0	6.0
ALTITUDE	1160'	1470'	1790'	2110'	2420'



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 2.98°	369	474	527	633	738	843
MAP at VOR/D1.1 IGN						

Standard STRAIGHT-IN LANDING RWY 20			CIRCLE-TO-LAND		
DA(H) 900' (431')					
ALS out			Max Kts	MDA(H)	VIS
RVR 1300m			100	1090' (621')	1500m
			135	1390' (921')	1600m
RVR 2000m			180	1590' (1121')	2400m
			205	2130' (1661')	3600m

LEGE/GRO
GIRONA

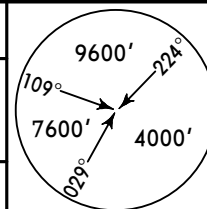
JEPPESEN
16 JUL 10 **13-1** Eff 29 Jul

GIRONA, SPAIN
VOR Rwy 02

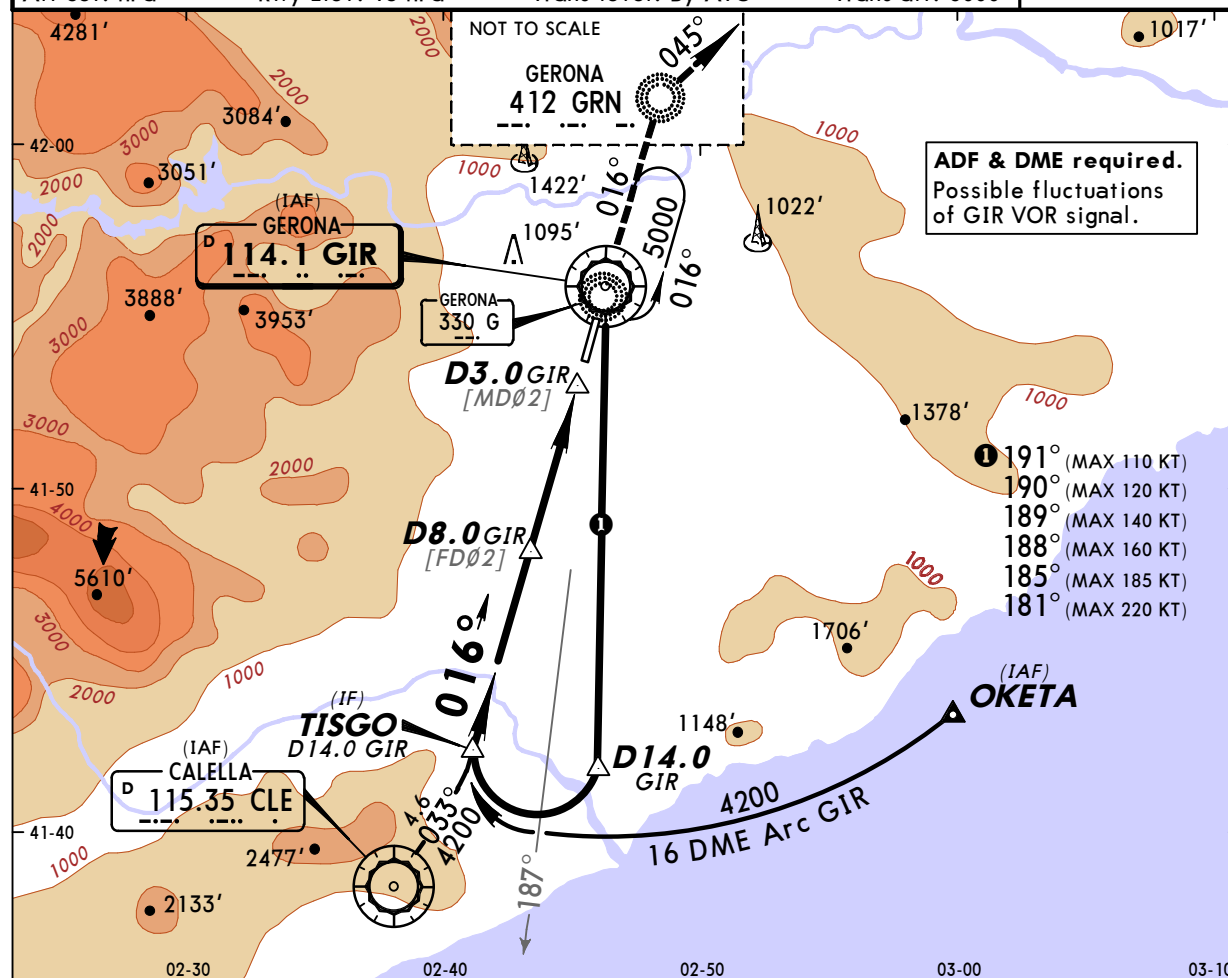
*ATIS 128.75	*GIRONA Approach 120.9	*GIRONA Tower 118.5	*Ground 121.7
VOR GIR 114.1	<i>Final Apch Crs</i> 016°	<i>Minimum Alt D8.0 GIR</i> 2500' (2097')	<i>DA(H)</i> 850' (447')
			<i>Apt Elev</i> 469' <i>RWY</i> 403'

MISSED APCH: Climb to GIR VOR. Proceed on 016° to GRN NDB. Proceed on 045° to 3500', then turn LEFT to GIR VOR climbing to 5000' and hold.

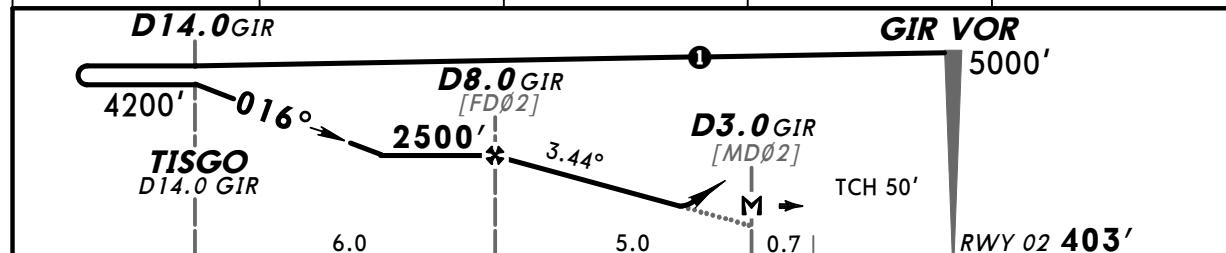
Alt Set: hPa	Rwy Elev: 15 hPa	Trans level: By ATC	Trans alt: 6000'
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MSA
GIR VOR



GIR DME	7.0	6.0	5.0	4.0
ALTITUDE	2190'	1820'	1460'	1090'



<i>Gnd speed-Kts</i>	70	90	100	120	140	160
<i>Descent Angle 3.44°</i>	426	548	609	730	852	974
<i>MAP at D3.0 GIR</i>						

HIALS REIL PAPI PAPI —	GIR 114.1 ▲
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Standard	STRAIGHT-IN LANDING RWY 02
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CIRCLE-TO-LAND

		$DA(H)$ 850' (447')			
		ALS out		Max Kts	
A	RVR 1500m			100	$MDA(H)$ 1090' (621') VIS 1500m
B				135	1390' (921') 1600m
C	RVR 1900m CMV 2100m			180	1590' (1121') 2400m
D				205	2130' (1661') 3600m

CHANGES: Bearings.

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LEGE/GRO GIRONA

JEPPESEN
16 JUL 10 **(13-2)** Eff 29 Jul

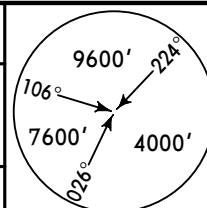
GIRONA, SPAIN VOR Rwy 20

BRIEFING STRIP

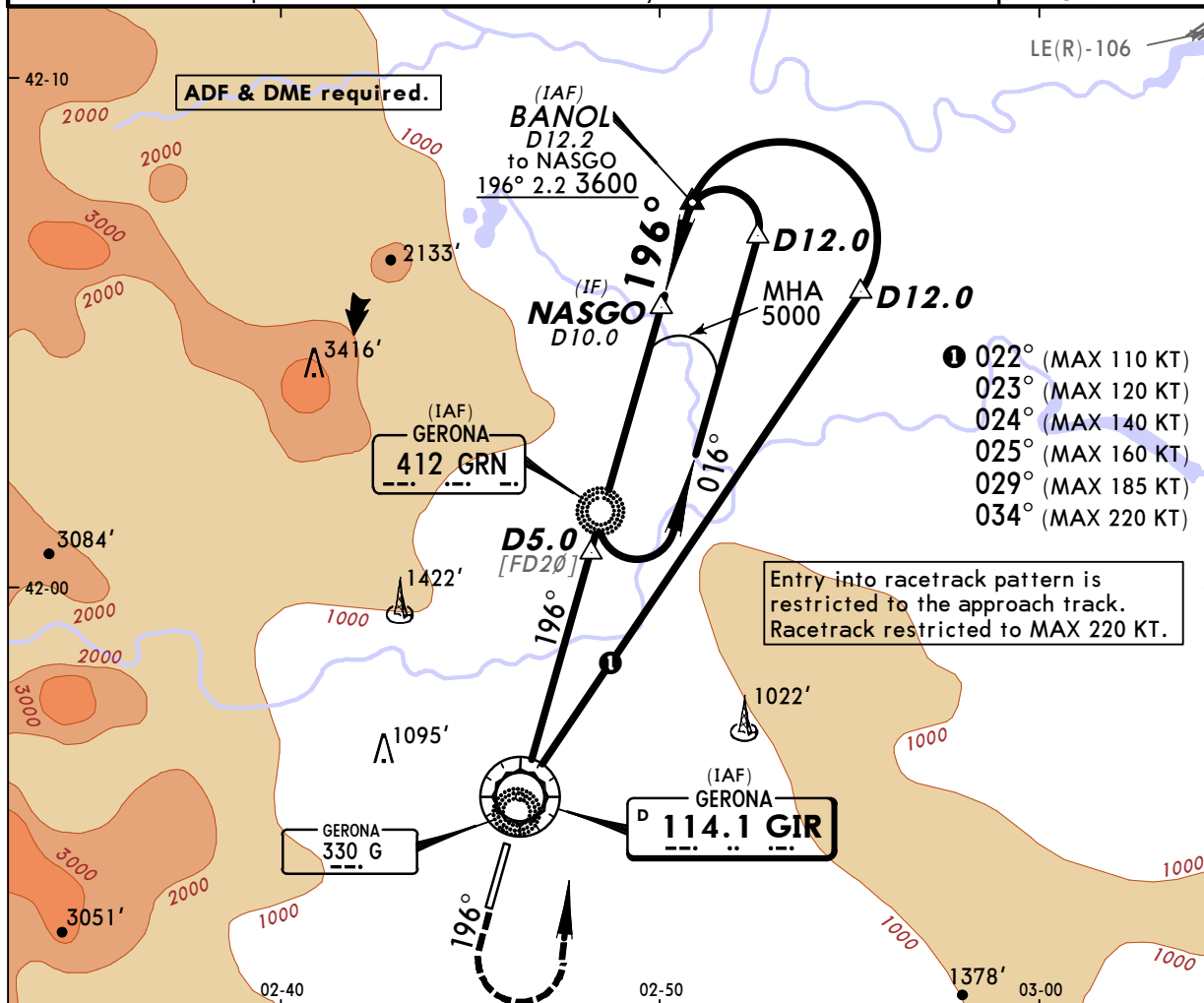
*ATIS 128.75	*GIRONA Approach 120.9	*GIRONA Tower 118.5	*Ground 121.7
VOR GIR 114.1	Final Apch Crs 196°	Minimum Alt D5.0 2500' (2031')	DA(H) 930' (461') Apt Elev 469'

MISSED APCH: Climb on R-196 to 3500', then turn LEFT to GRN NDB climbing to 5000' and hold. Do not turn before passing MAP.

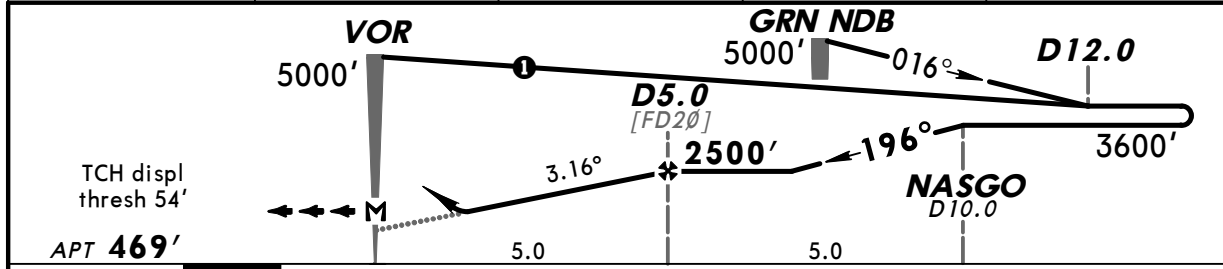
Alt Set: hPa Apt Elev: 17 hPa Trans level: By ATC Trans alt: 6000'



MSA
GRN NDB



GIR DME	1.0	2.0	3.0	4.0
ALTITUDE	1220'	1550'	1890'	2220'



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II REIL PAPI PAPI	TO DISPL THRESH 3500' GIR on 114.1 R-196
Descent Angle 3.16°	391	503	559	671	783	895		
MAP at VOR								

Standard STRAIGHT-IN LANDING RWY 20				CIRCLE-TO-LAND			
DA(H) 930' (461')				Max Kts	MDA(H)	VIS	
A B C D	RVR 1500m	ALS out		100	1090' (621')	1500m	
		RVR 1500m		135	1390' (921')	1600m	
		CMV 2200m		180	1590' (1121')	2400m	
		CMV 2200m		205	2130' (1661')	3600m	

PANS OPS 4

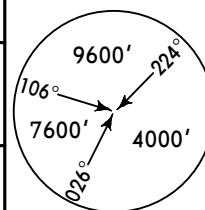
LEGE/GRO GIRONA

JEPPESEN
16 JUL 10 **(16-1)** Eff 29 Jul

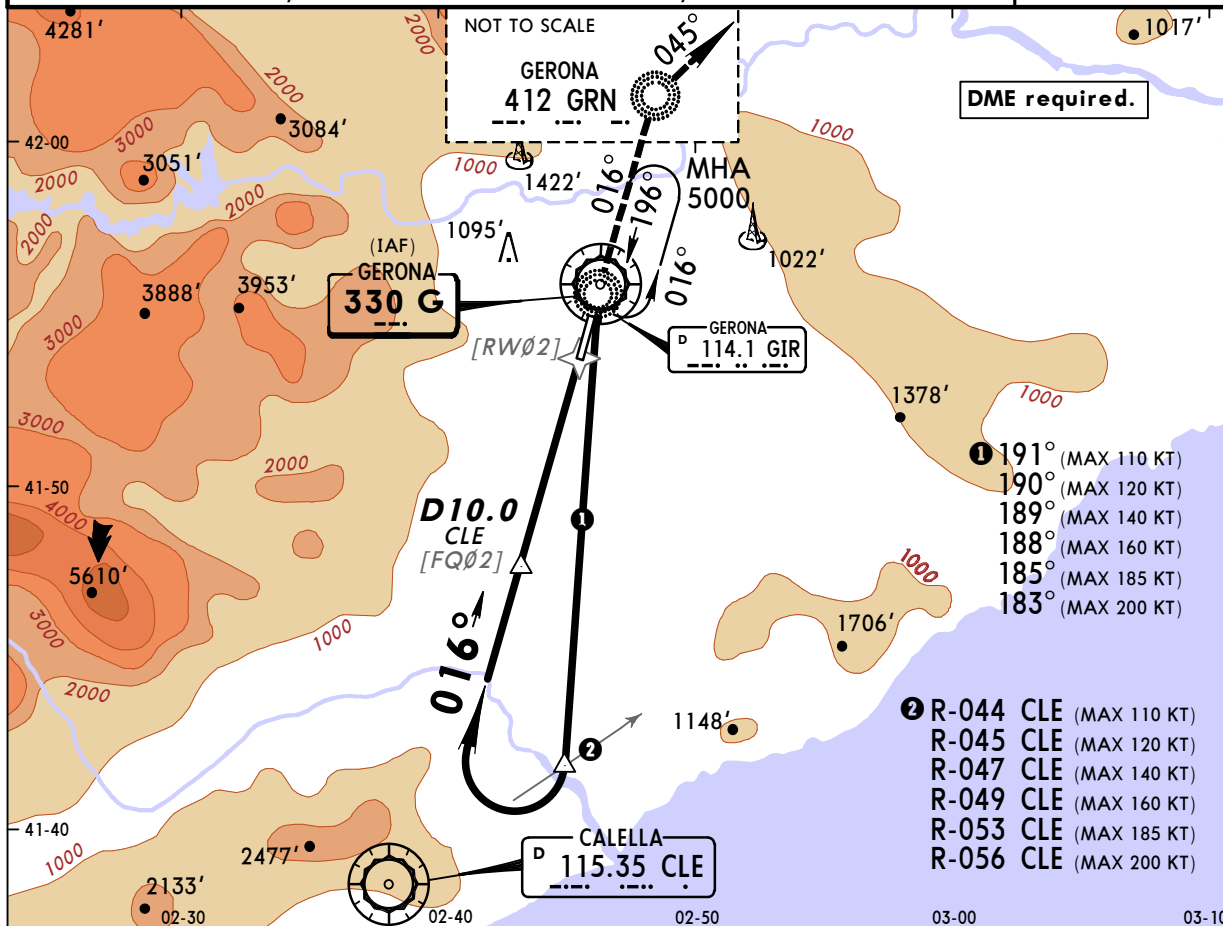
GIRONA, SPAIN Lctr Z Rwy 02

BRIEFING STRIP

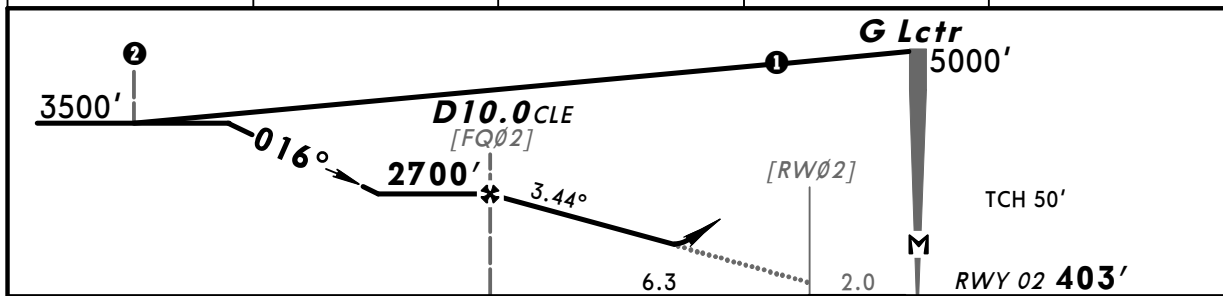
*ATIS 128.75	*GIRONA Approach 120.9	*GIRONA Tower 118.5	*Ground 121.7
Lctr G 330	Final Apch Crs 016°	Minimum Alt D10.0 CLE 2700' (2297')	DA(H) 950' (547')
			Apt Elev 469' RWY 403'
MISSED APCH: Climb on 016° to GRN NDB. Proceed on 045° from GRN NDB climbing to 3500', turn LEFT to GRN NDB, then direct to G Lctr climbing to 5000' and hold.			
Alt Set: hPa	Rwy Elev: 15 hPa	Trans level: By ATC	Trans alt: 6000'



MSA
GRN NDB



CLE DME	11.0	12.0	13.0	14.0
ALTITUDE	2340'	1970'	1610'	1240'



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.44°	426	548	609	730	852	974
MAP at G Lctr						

Standard			STRAIGHT-IN LANDING RWY 02			CIRCLE-TO-LAND		
			DA(H) 950' (547')					
			ALS out					
A	RVR 1500m				Max Kts.	MDA(H)	VIS	
B					100	1090' (621')	1500m	
C					135	1390' (921')	1600m	
D					180	1590' (1121')	2400m	
	CMV 2300m		CMV 2400m		205	2130' (1661')	3600m	

CHANGES: Bearings.

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LEGE/GRO
GIRONA

JEPPESSEN
16 JUL 10 (16-2) Eff 29 Jul

GIRONA, SPAIN
Lctr Y Rwy 02

*ATIS 128.75	*GIRONA Approach 120.9	*GIRONA Tower 118.5	*Ground 121.7
Lctr G 330	Final Apch Crs 016°	Minimum Alt D10.0 CLE 2700' (2297')	DA(H) 950' (547')
Apt Elev 469' RWY 403'			

MISSED APCH: Climb on 016° to GRN NDB. Proceed on 045° from GRN NDB climbing to 3500', then turn LEFT to GRN NDB, then direct to G Lctr climbing to 5000' and hold.

Alt Set: hPa	Rwy Elev: 15 hPa	Trans level: By ATC	Trans alt: 6000'
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MSA
GRN NDB

CLE DME	11.0	12.0	13.0	14.0
ALTITUDE	2340'	1970'	1610'	1240'

TISGO
D4.6 CLE

3700' → 016° → 2700' → 3.44° → [RWY 02]

5.4 6.3 2.0

G Lctr

TCH 50'

RWY 02 403'

Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.44°	426	548	609	730	852	974
MAP at G Lctr						

Standard

STRAIGHT-IN LANDING RWY 02

DA(H) **950'** (547')

ALS out

A	RVR 1500m	Max Kts	100
B			135
C			180
D			205

CIRCLE-TO-LAND

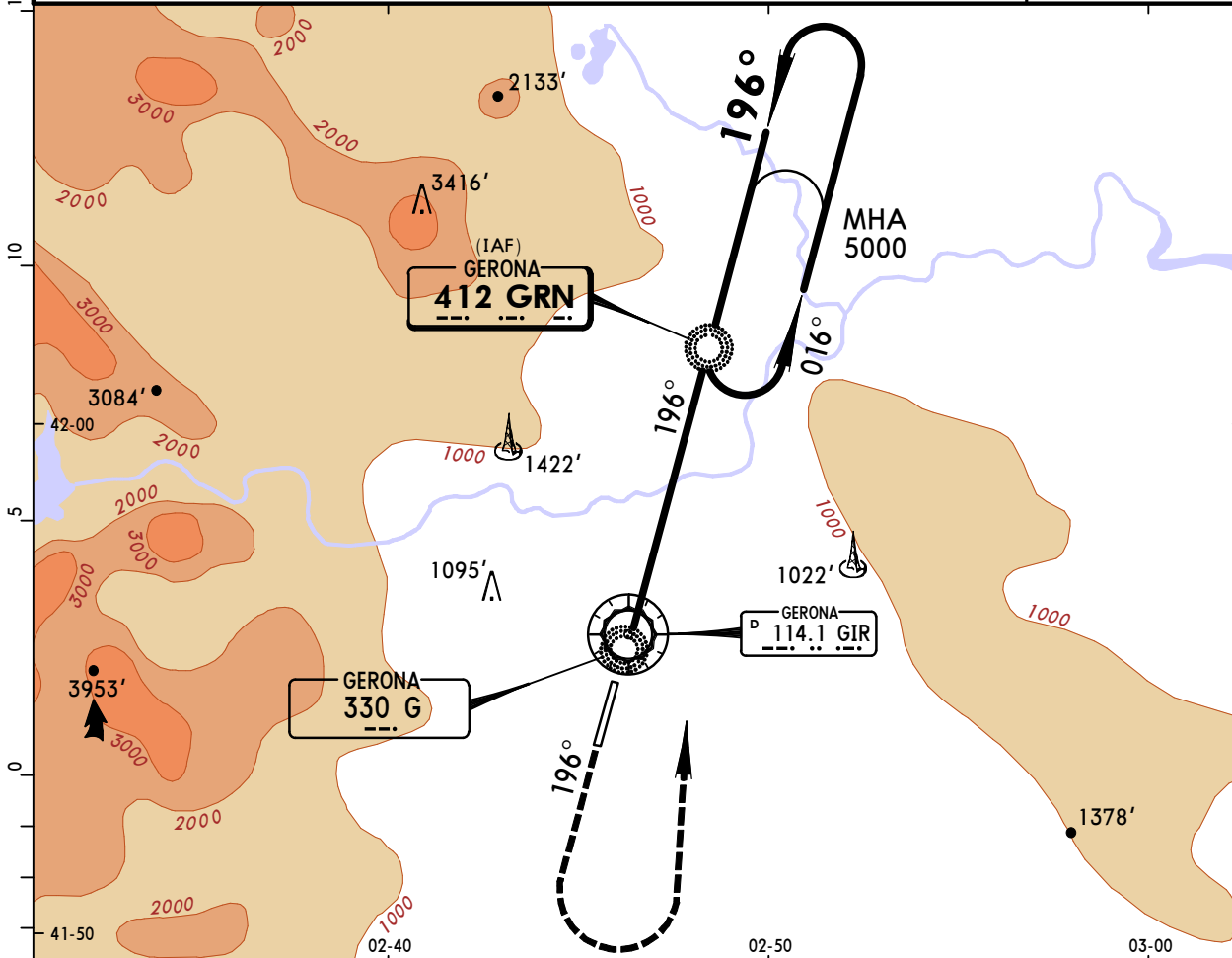
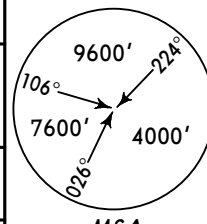
MDA(H)	VIS
1090' (621')	1500m
1390' (921')	1600m
1590' (1121')	2400m
2130' (1661')	3600m

LEGE/GRO GIRONA

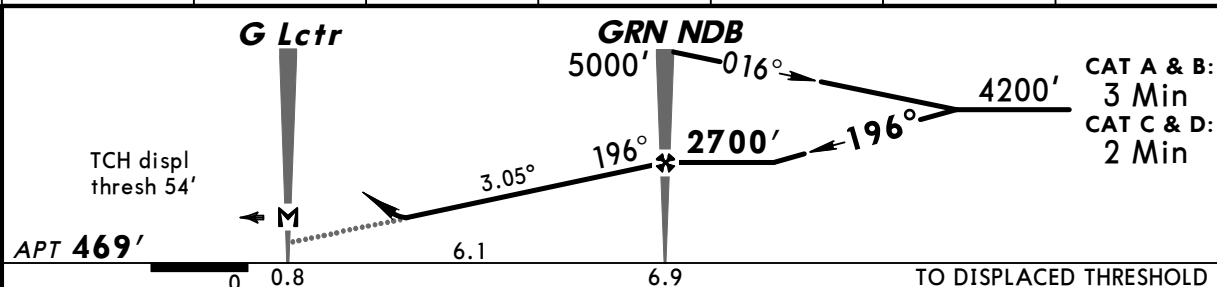
JEPPESEN
16 JUL 10 **(16-3)** Eff 29 Jul

GIRONA, SPAIN NDB Rwy 20

*ATIS 128.75	*GIRONA Approach 120.9	*GIRONA Tower 118.5	*Ground 121.7
NDB GRN 412	Final Apch Crs 196°	Minimum Alt GRN NDB 2700' (2231')	DA(H) 950' (481')
Apt Elev 469'			
MISSED APCH: Climb on 196° from GRN NDB to 3500', then turn LEFT to GRN NDB climbing to 5000' and hold. Do not turn before passing MAP.			
Alt Set: hPa	Apt Elev: 17 hPa	Trans level: By ATC	Trans alt: 6000'
1. Dual ADF required. 2. Racetrack restricted to MAX 210 KT.			



DIST to G Lctr	1.0	2.0	3.0	4.0	5.0	6.0
ALTITUDE	1050'	1380'	1700'	2020'	2350'	2670'



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.05°	378	486	540	648	755	863
MAP at G Lctr						

Standard			STRAIGHT-IN LANDING RWY 20		CIRCLE-TO-LAND	
			DA(H) 950' (481')			
			ALS out		Max Kts	
			RVR 1500m		100	1090' (621')
			CMV 2300m		135	1390' (921')
					180	1590' (1121')
					205	2130' (1661')