

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

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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No revision activity since Disc 22-2010

TERMINAL CHART NOTAMs

Chart NOTAMs for Airport LEZG

Type: Terminal

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

Lndg beyond GS raised to 8976ft (2736m).

Type: Terminal

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

(10-9) PAPI-L rwy 30R angle chgd to 3°.

General Info

Zaragoza, ESP

N 41° 40.0' W 01° 02.5' Mag Var: 2.4°W

Elevation: 863'

Public, IFR, Control Tower, Rotating Beacon, Customs, Landing Fee

Pattern Altitude: 1137 feet AGL

Fuel: 100LL, Jet A-1

Time Zone Info: GMT+1:00 uses DST

Runway Info

Runway 12L-30R 9948' x 148' asphalt

Runway 12R-30L 12198' x 148' asphalt

Runway 12L (122.0°M) TDZE 823'

Lights: Edge, ALS, REIL

Stopway Distance 984'

Runway 12R (122.0°M) TDZE 834'

Lights: Edge, ALS, REIL

Right Traffic

Stopway Distance 984'

Runway 30L (302.0°M) TDZE 863'

Lights: Edge

Stopway Distance 984'

Runway 30R (302.0°M) TDZE 834'

Lights: Edge, ALS, REIL

Right Traffic

Stopway Distance 607'

Communications Info

Zaragoza Tower **139.3** Military

Zaragoza Tower **122.1**

Zaragoza Tower **396.90** Military

Zaragoza Tower **300.05** Military

Zaragoza Tower **259.07** Military

Zaragoza Tower **257.80** Military

Zaragoza Ground Control **118.1**

Zaragoza Approach Control **127.05** TCA

Zaragoza Approach Control **363.67** TCA Military

Zaragoza Approach Control **119.3** TCA

Zaragoza Approach Control **125.0**

Zaragoza Approach Control **313.50** TCA Military

Zaragoza Approach Control **296.75** TCA Military

Zaragoza GCA Radar **123.3** Military

Zaragoza GCA Radar **122.5** Military

Zaragoza GCA Radar **385.40** Military

Zaragoza GCA Radar **375.57** Military

Zaragoza GCA Radar **369.30** Military

Zaragoza GCA Radar **344.00** Military

Zaragoza GCA Radar **260.97** Military

Notebook Info

LEZG/ZAZ
ZARAGOZA

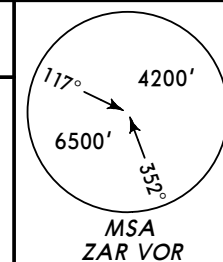
JEPPESEN
23 APR 10 **10-2** **Eff 6 May**

ZARAGOZA, SPAIN

STAR

Apt Elev
863'

Alt Set: hPa Trans level: By ATC Trans alt: 6000'



ALEPO ONE ALFA (ALEPO 1A) [ALEP1A]
CALAMOCHA ONE ALFA (CMA 1A)
RWY 12 ARRIVALS
CALAMOCHA ONE BRAVO (CMA 1B)
RWYS 12, 30 ARRIVALS
CALAMOCHA ONE CHARLIE (CMA 1C)
RWY 30 ARRIVAL

ALEPO
N42 20.6
W001 57.8

ALEPO 1A
D58.6-317°
50
5000

(IAF)
ZARAGOZA
389 ZRZ
N41 43.8 W001 11.6

(IAF)
ZARAGOZA
113.0 ZAR
N41 39.5 W001 01.9

(IAF)
ZARAGOZA
348 ZZA
N41 35.9 W000 52.7



FESTA
N41 26.5 W001 06.3

CMA 1A
18
5000
318°

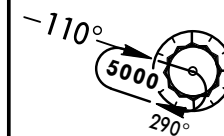
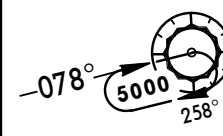
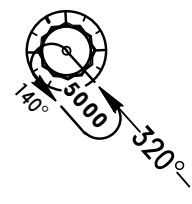
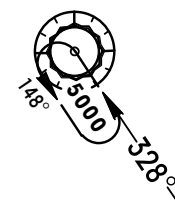
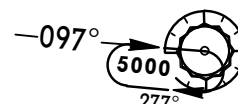
CMA 1B
13.4
5000
R196°

CMA 1C
14
5000
049°

CALAMOCHA
116.0 CMA
N40 52.0 W001 17.9

CMA 1A, 1B, 1C
36
FL70
016°

HOLDINGS OVER ZAR



LEZG/ZAZ
ZARAGOZA

23 APR 10

JEPPESEN

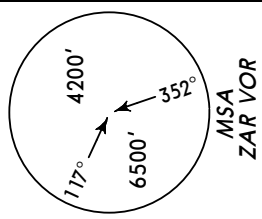
Eff 6 May

ZARAGOZA, SPAIN

STAR

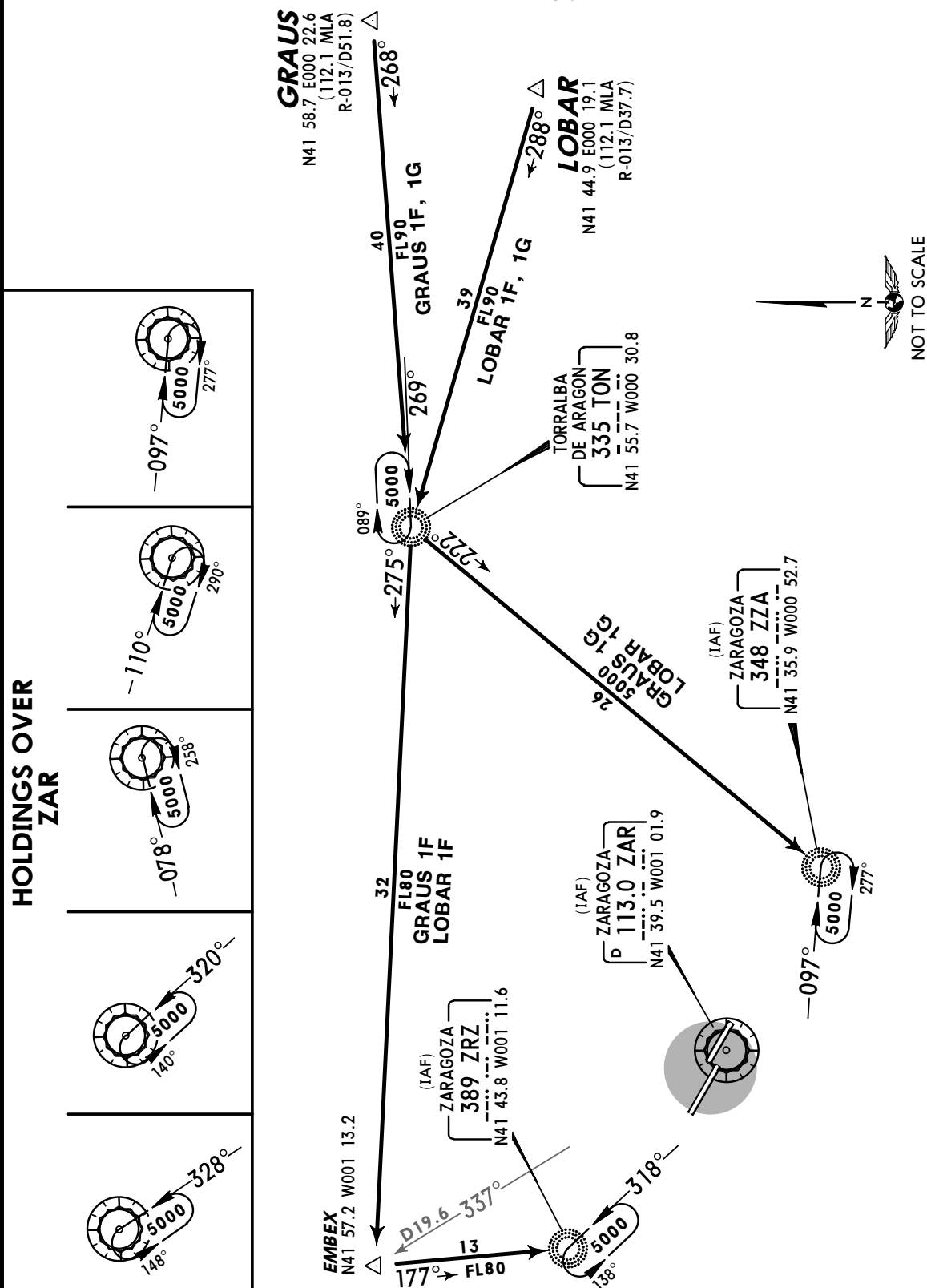
Apt Elev
863'

Alt Set: hPa Trans level: By ATC Trans alt: 6000'



GRAUS ONE FOXTROT (GRAUS 1F) [GRAU1F]
 LOBAR ONE FOXTROT (LOBAR 1F) [LOBA1F]
 RWY 12 ARRIVALS

GRAUS ONE GOLF (GRAUS 1G) [GRAU1G]
 LOBAR ONE GOLF (LOBAR 1G) [LOBA1G]
 RWY 30 ARRIVALS



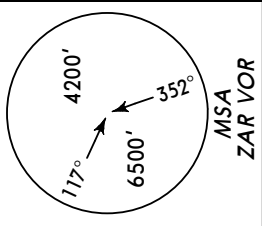
LEZG/ZAZ
ZARAGOZA

JEPPESEN
 23 APR 10 **10-2B** Eff 6 May

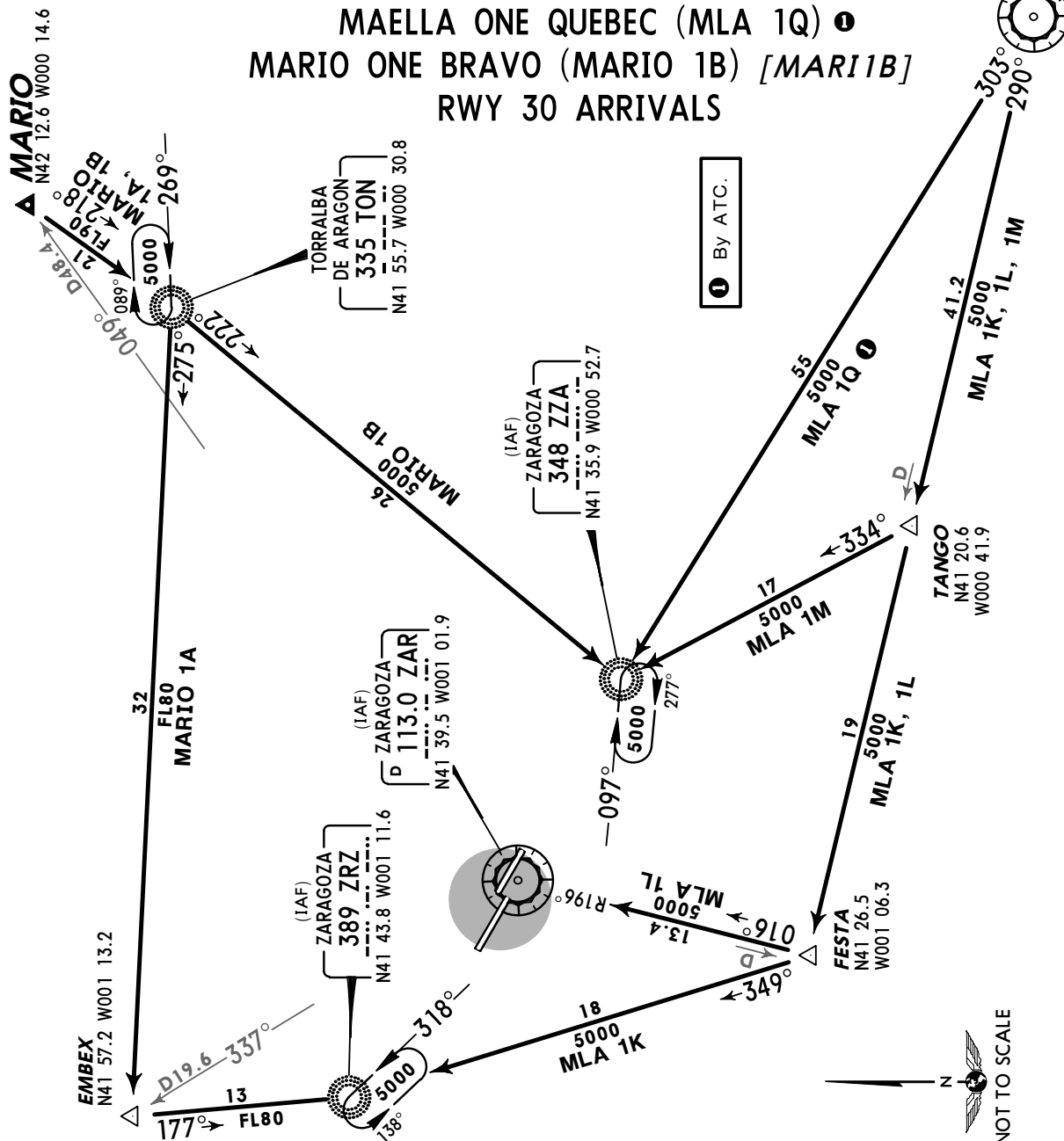
ZARAGOZA, SPAIN
STAR

Apt Elev
863'

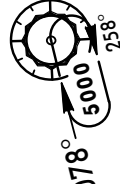
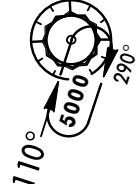
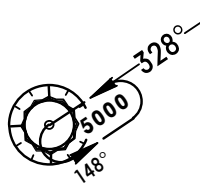
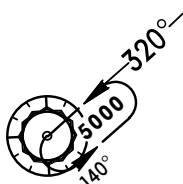
Alt Set: hPa Trans level: By ATC Trans alt: 6000'



MAELLA ONE LIMA (MLA 1L)
RWYS 12, 30 ARRIVALS
MAELLA ONE KILO (MLA 1K)
MARIO ONE ALFA (MARIO 1A) [MARIO 1A]
RWY 12 ARRIVALS
MAELLA ONE MIKE (MLA 1M)
MAELLA ONE QUEBEC (MLA 1Q) ①
MARIO ONE BRAVO (MARIO 1B) [MARIO 1B]
RWY 30 ARRIVALS



**HOLDINGS
 OVER
 ZAR**



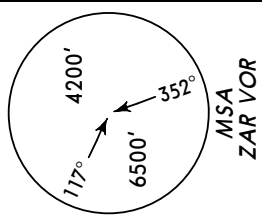
LEZG/ZAZ
ZARAGOZA

JEPPESSEN
 23 APR 10 **10-2C** **Eff 6 May**

ZARAGOZA, SPAIN
STAR

Apt Elev
863'

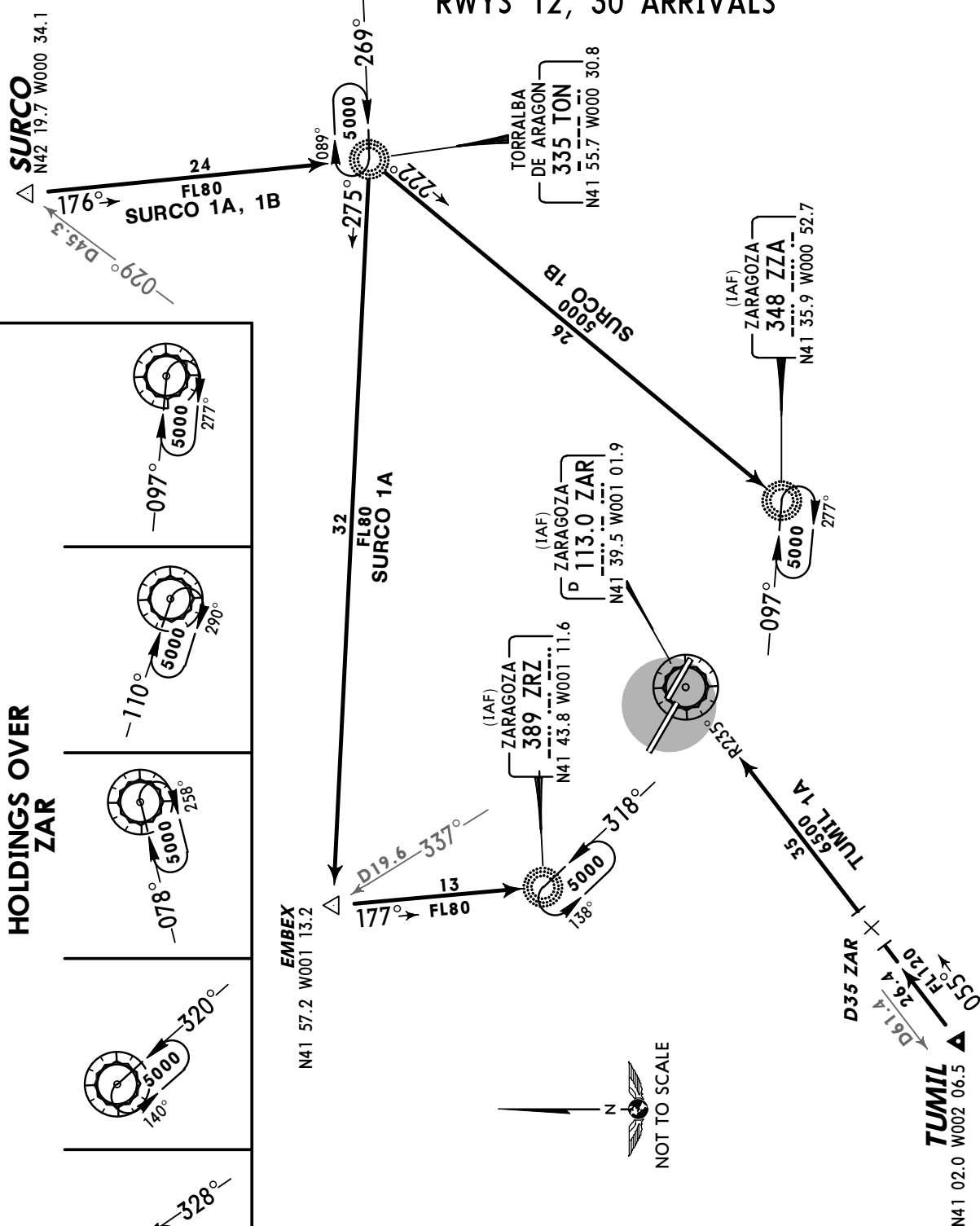
Alt Set: hPa Trans level: By ATC Trans alt: 6000'



SURCO ONE ALFA (SURCO 1A) [SURC1A]
RWY 12 ARRIVAL

SURCO ONE BRAVO (SURCO 1B) [SURC1B]
RWY 30 ARRIVAL

TUMIL ONE ALFA (TUMIL 1A) [TUMI1A]
RWYS 12, 30 ARRIVALS



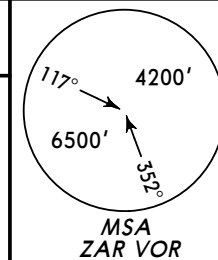
LEZG/ZAZ
ZARAGOZA

JEPPESEN
 1 JUL 05 **10-3** **Eff 7 Jul**

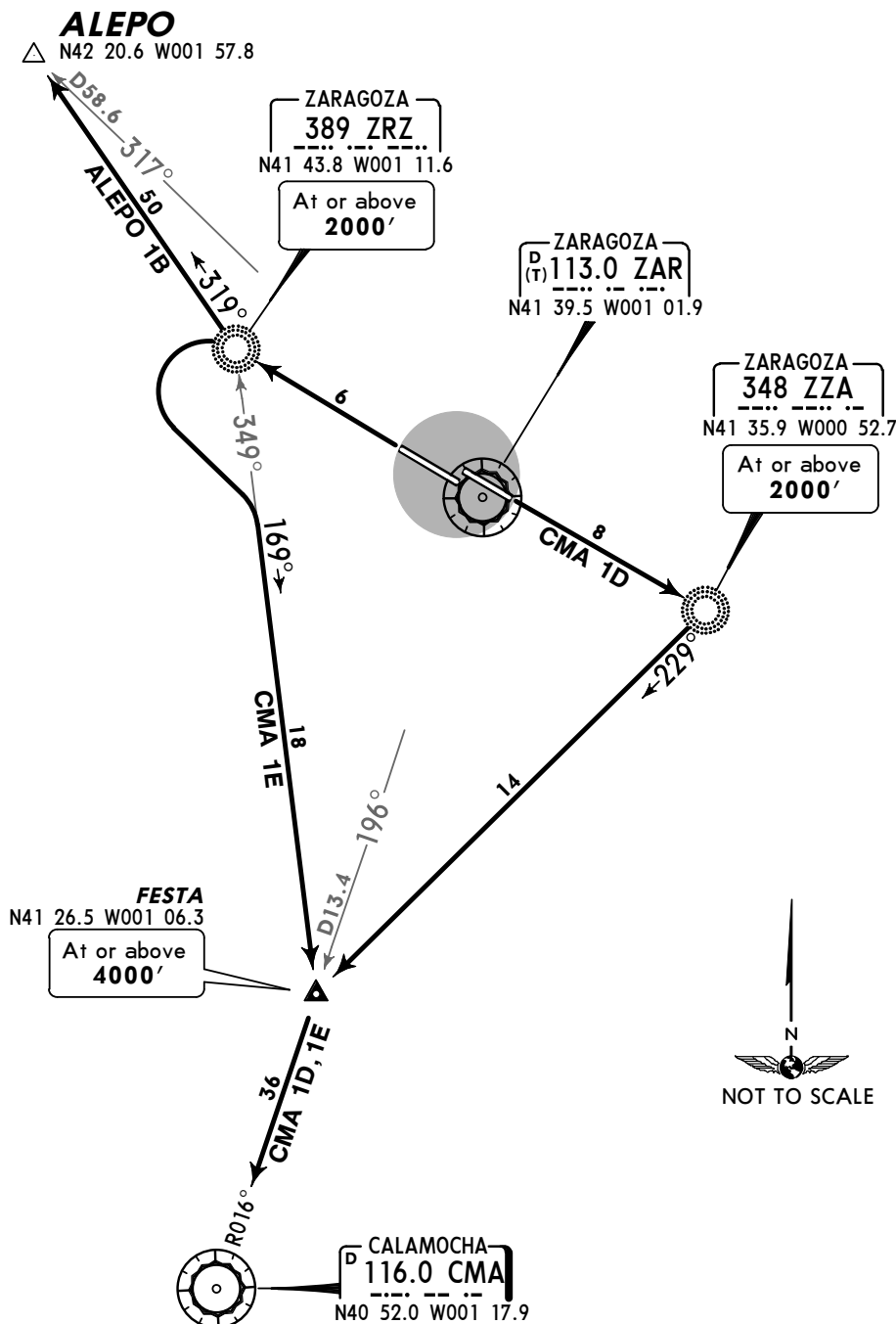
ZARAGOZA, SPAIN
SID

Apt Elev
863'

Trans level: By ATC Trans alt: 6000'



ALEPO ONE BRAVO (ALEPO 1B) [ALEP1B]
CALAMOCHA ONE DELTA (CMA 1D)
CALAMOCHA ONE ECHO (CMA 1E)
RWYS 30, 12 DEPARTURES



SID	RWY	INITIAL CLIMB/ROUTING
ALEPO 1B	30	On runway heading to ZRZ, 319° bearing to ALEPO.
CMA 1D	12	On runway heading to ZZA, turn RIGHT, 229° bearing to FESTA, turn LEFT, intercept CMA R-016 inbound (ZAR R-196 outbound) to CMA.
CMA 1E	30	On runway heading to ZRZ, turn LEFT, intercept 169° bearing from ZRZ to FESTA, turn RIGHT, intercept CMA R-016 inbound (ZAR R-196 outbound) to CMA.

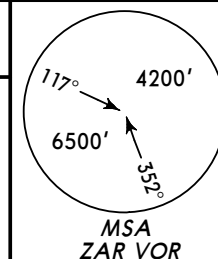
LEZG/ZAZ
ZARAGOZA

JEPPESEN
1 JUL 05 **(10-3A)** **Eff 7 Jul**

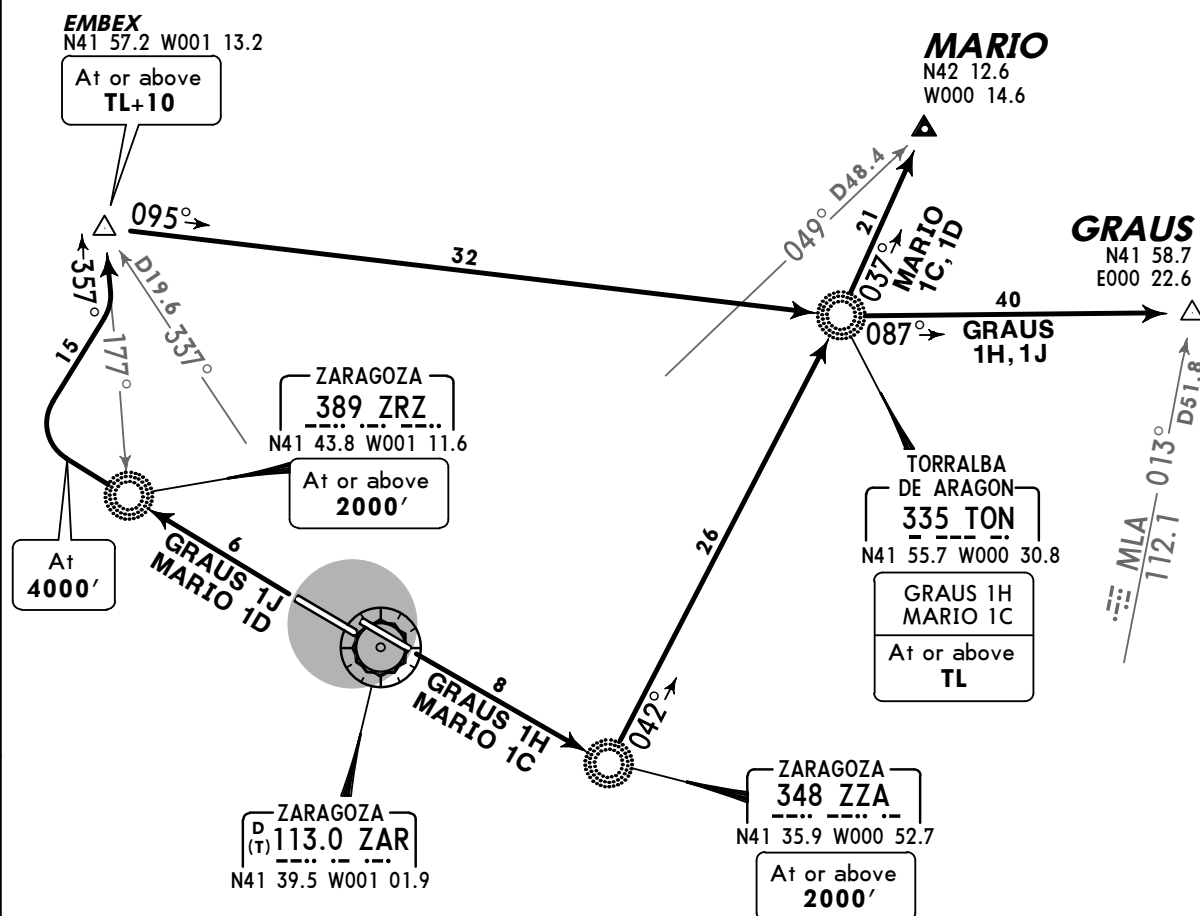
ZARAGOZA, SPAIN
SID

Apt Elev
863'

Trans level: By ATC Trans alt: 6000'



GRAUS ONE HOTEL (GRAUS 1H) [GRAU1H]
GRAUS ONE JULIETT (GRAUS 1J) [GRAU1J]
MARIO ONE CHARLIE (MARIO 1C) [MARI1C]
MARIO ONE DELTA (MARIO 1D) [MARI1D]
RWYS 12, 30 DEPARTURES



SID	RWY	INITIAL CLIMB
GRAUS 1H, MARIO 1C	12	On runway heading to ZZA, turn LEFT, 042° bearing to TON.
GRAUS 1J, MARIO 1D	30	On runway heading to ZRZ, continue on heading until passing 4000', turn RIGHT, intercept 357° bearing from ZRZ to EMBEX.
SID	ROUTING	
GRAUS 1H	At TON turn RIGHT, 087° bearing to GRAUS.	
GRAUS 1J	At EMBEX turn RIGHT, 095° bearing to TON, turn LEFT, 087° bearing to GRAUS.	
MARIO 1C	At TON turn LEFT, 037° bearing to MARIO.	
MARIO 1D	At EMBEX turn RIGHT, 095° bearing to TON, turn LEFT, 037° bearing to MARIO.	

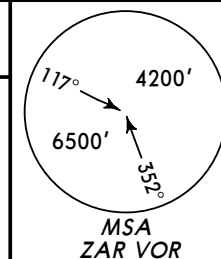
LEZG/ZAZ
ZARAGOZA

JEPPesen
1 JUL 05 **10-3B** **Eff 7 Jul**

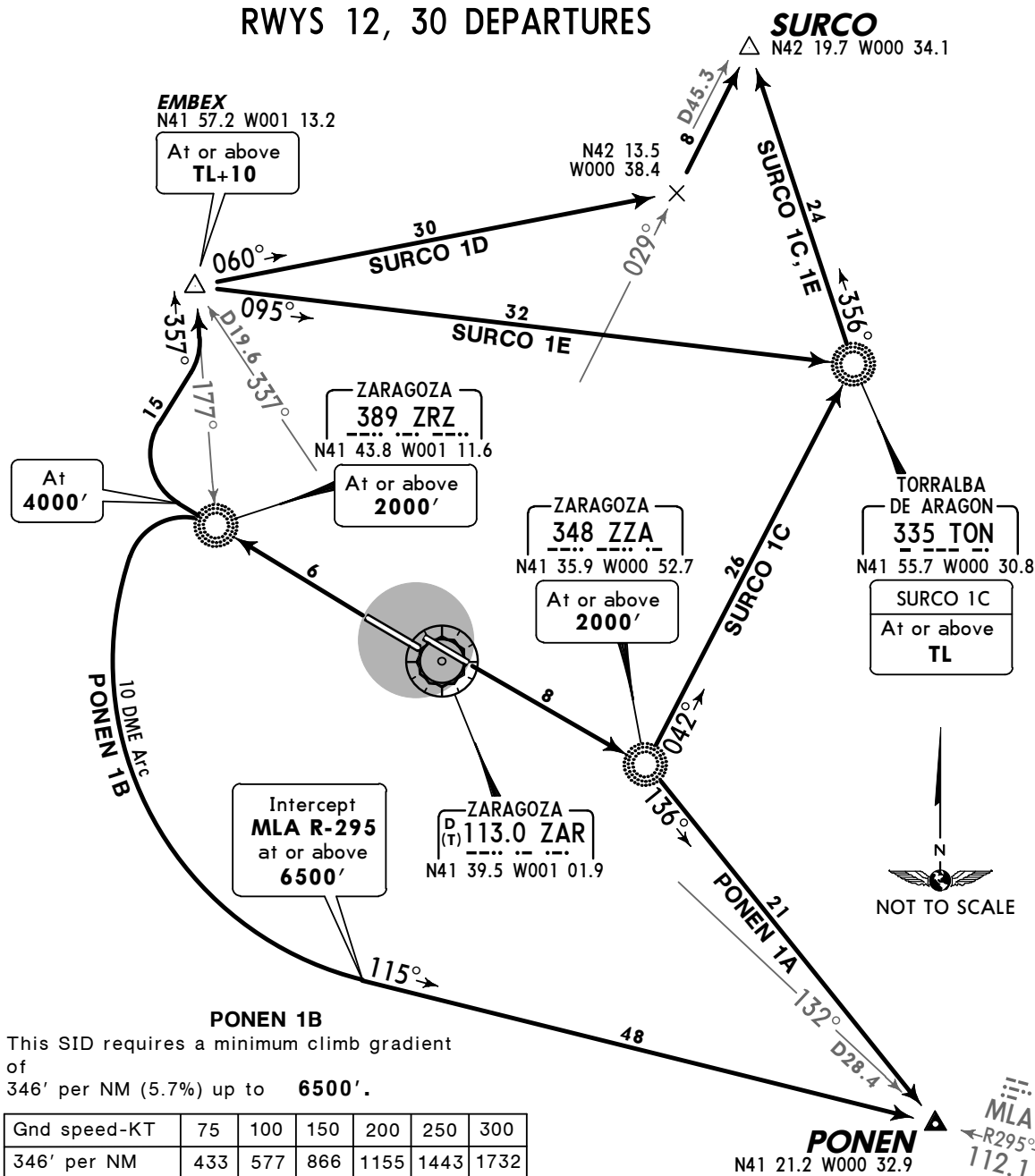
ZARAGOZA, SPAIN
SID

Apt Elev
863'

Trans level: By ATC Trans alt: 6000'



PONEN ONE ALFA (PONEN 1A) [PONE1A]
PONEN ONE BRAVO (PONEN 1B) [PONE1B]
SURCO ONE CHARLIE (SURCO 1C) [SURC1C]
SURCO ONE DELTA (SURCO 1D) [SURC1D]
SURCO ONE ECHO (SURCO 1E) [SURC1E]
RWYS 12, 30 DEPARTURES



PONEN 1B
This SID requires a minimum climb gradient
of
346' per NM (5.7%) up to **6500'**.

Gnd speed-KT	75	100	150	200	250	300
346' per NM	433	577	866	1155	1443	1732

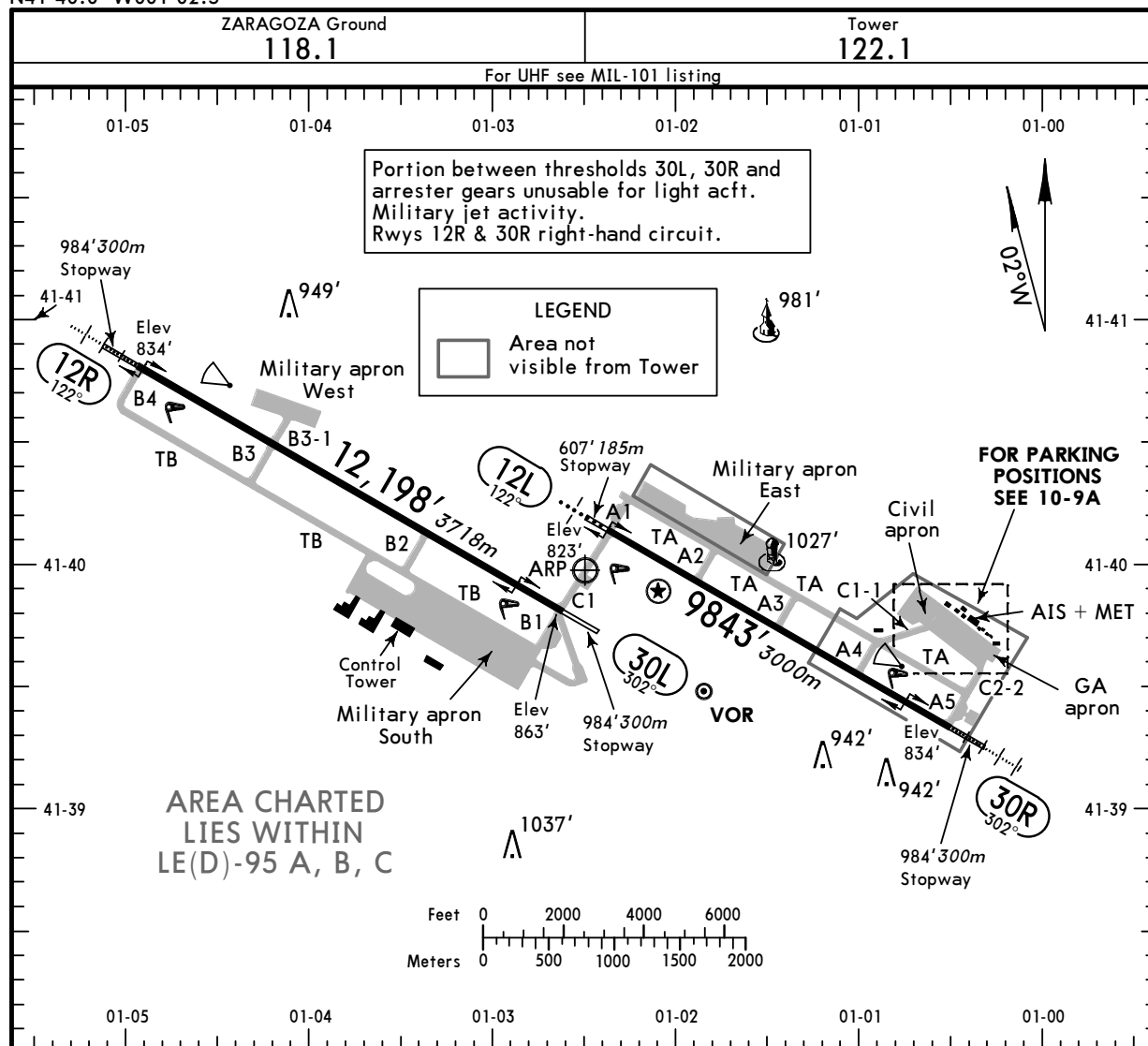
SID	RWY	INITIAL CLIMB/ROUTING
PONEN 1A	12	On runway heading to ZZA, 136° bearing to PONEN.
PONEN 1B	30	On runway heading to ZRZ, turn LEFT, along ZAR 10 DME arc, intercept MLA R-295 inbound to PONEN.
SURCO 1C	12	On runway heading to ZZA, turn LEFT, 042° bearing to TON, turn LEFT, 356° bearing to SURCO.
SURCO 1D	30	On runway heading to ZRZ, continue on heading until passing 4000' , turn RIGHT, intercept 357° bearing from ZRZ to EMBEX, turn RIGHT, 060° track, intercept ZAR R-029 to SURCO.
SURCO 1E		On runway heading to ZRZ, continue on heading until passing 4000' , turn RIGHT, intercept 357° bearing from ZRZ to EMBEX, turn RIGHT, 095° bearing to TON, turn LEFT, 356° bearing to SURCO.

LEZG/ZAZ

Apt Elev **863'**
N41 40.0 W001 02.5

JEPPESEN
20 FEB 09 **(10-9)**

ZARAGOZA, SPAIN
ZARAGOZA



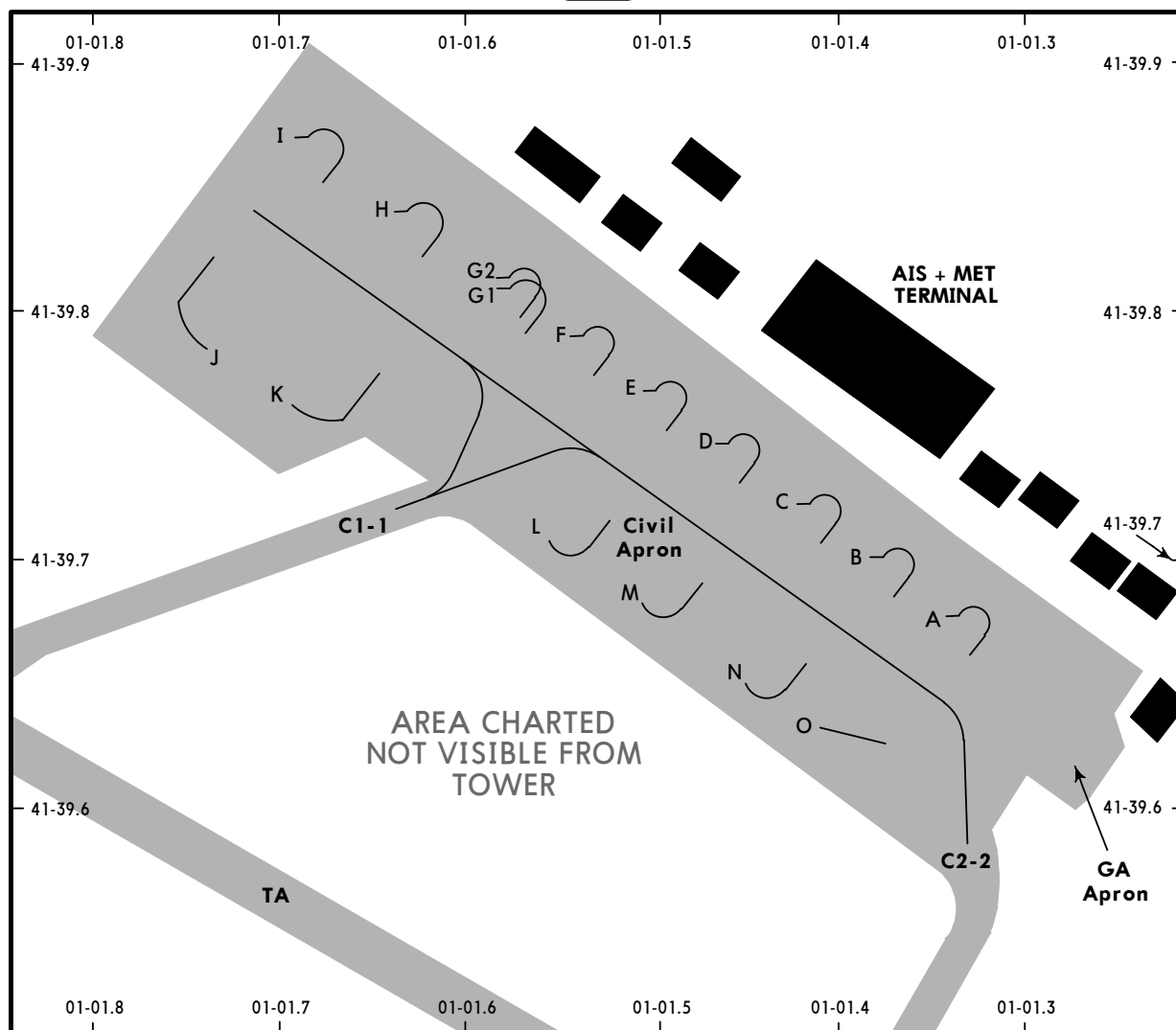
ADDITIONAL RUNWAY INFORMATION					
RWY			USABLE LENGTHS		WIDTH
			Threshold	TAKE-OFF	
12L	HIRL (60m) SSALS REIL PAPI-L (angle 2.5°)				148'
30R	HIRL (60m) HIALS LDIN REIL PAPI-L (2.5°) RVR			7645' 2330m	45m
12R	HIRL (60m) HIALS LDIN REIL PAPI-L (3.0°) RVR				148'
30L	HIRL (60m) PAPI-L (angle 3.0°)				45m

Standard			
TAKE-OFF 1			
All Rwys			
LVP must be in Force			
RCLM (DAY only) or RL		RCLM (DAY only) or RL	
NIL (DAY only)			
A			
B	250m	400m	500m
C			
D	300m		
1 Operators applying U.S. Ops Specs: CL required below 300m.			

LEZG/ZAZ

JEPPESSEN
20 FEB 09 **(10-9A)**

ZARAGOZA, SPAIN
ZARAGOZA



STAND No.	COORDINATES	STAND No.	COORDINATES
A thru C	N41 39.7 W001 00.4	O	N41 39.6 W001 00.4
D	N41 39.7 W001 00.5		
E	N41 39.8 W001 00.5		
F thru G2	N41 39.8 W001 00.6		
H	N41 39.8 W001 00.7		
I	N41 39.9 W001 00.7		
J	N41 39.8 W001 00.8		
K	N41 39.8 W001 00.7		
L	N41 39.7 W001 00.6		
M, N	N41 39.7 W001 00.5		

LOW VISIBILITY PROCEDURES (LVP)

Rwys 12L/30R are authorized for take-off in low visibility conditions. During LVP the taxiing of only one acft will be authorized in the manoeuvring area at the same time. Pilots will be informed about the application of LVP by Tower. On civ apron acft will be guided by follow-me until the equivalent threshold. When disorientated or in doubt, pilots will stop the acft and will immediately notify to Tower.

LVP will be applied when:

- RVR value or
- general vis is 600m or below if the RVR is out of service

The LVP will be cancelled when RVR is 1000m or above at least 10 Min and the improvement tendency of MET-conditions is strong.

ENTRIES TO RUNWAY

- Rwy 12L: for civ acft only through C1-1, TA until A1; for mil acft only through TA until A1.
- Rwy 30R: for civ acft only through C2-2, and A5; for mil acft only through TA until A5.

COMMUNICATIONS FAILURE

Departing acft must continue by the assigned route to its clearance limit, taking extreme caution to avoid detours. Once at this point it will hold and wait for a follow-me in order to be guided to the stand or holding position designated by the appropriate authority.

LEZG/ZAZ **JEPPesen**

8 JAN 10

10-9X**Eff 14 Jan****JAA MINIMUMS****ZARAGOZA, SPAIN****ZARAGOZA**

STRAIGHT-IN RWY		A	B	C	D
12L	PAR	1023' (200')	1023' (200')	1023' (200')	1023' (200')
		ceil 100' - 800m	ceil 100' - 800m	ceil 100' - 800m	ceil 100' - 800m
	<i>ALS out</i>	ceil 100' - 1000m	ceil 100' - 1000m	ceil 100' - 1000m	ceil 100' - 1000m
	ASR	1330' (507')	1330' (507')	1330' (507')	1330' (507')
		ceil 400' - 2000m	ceil 400' - 2000m	ceil 400' - 2000m	ceil 400' - 2000m
12R	VOR	1330' (496')	1330' (496')	1330' (496')	1330' (496')
		R1400m	R1500m	R1600m	R1800m
	<i>ALS out</i>	R1500m	R1500m	R2000m	R2000m
	NDB Z	1330' (496')	1330' (496')	1330' (496')	1330' (496')
		R1400m	R1500m	R1600m	R1800m
	<i>ALS out</i>	R1500m	R1500m	R2000m	R2000m
	NDB Y	1430' (596')	1430' (596')	1430' (596')	1430' (596')
		R1400m	R1500m	R1600m	R1800m
	<i>ALS out</i>	R1500m	R1500m	R2000m	R2000m
	ASR	1340' (506')	1340' (506')	1340' (506')	1340' (506')
		ceil 500' - 2400m	ceil 500' - 2400m	ceil 500' - 2400m	ceil 500' - 2400m
30L	ASR	1470' (607')	1470' (607')	1470' (607')	1470' (607')
		ceil 600' - 2800m	ceil 600' - 2800m	ceil 600' - 2800m	ceil 600' - 2800m
30R	ILS	1069' (235')	1081' (247')	1089' (255')	1100' (266')
		R700m	R700m	R800m	R800m
	<i>ALS out</i>	R1000m	R1000m	R1200m	R1200m
	LOC	1300' (466')	1300' (466')	1300' (466')	1300' (466')
		R1400m	R1500m	R1600m	R1800m
	<i>ALS out</i>	R1500m	R1500m	R2000m	R2000m
	PAR	1034' (200')	1034' (200')	1034' (200')	1034' (200')
		ceil 100' - 700m	ceil 100' - 700m	ceil 100' - 700m	ceil 100' - 700m
	<i>ALS out</i>	ceil 100' - 1000m	ceil 100' - 1000m	ceil 100' - 1000m	ceil 100' - 1000m
	VOR	1330' (496')	1330' (496')	1330' (496')	1330' (496')
		R1400m	R1500m	R1600m	R1800m
	<i>ALS out</i>	R1500m	R1500m	R2000m	R2000m
	Lctr	1570' (736')	1570' (736')	1570' (736')	1570' (736')
		R1500m	R1500m	R1800m	R2000m
	<i>ALS out</i>	R1500m	R1500m	R2000m	R2000m
	ASR	1340' (506')	1340' (506')	1340' (506')	1340' (506')
		ceil 500' - 2000m	ceil 500' - 2000m	ceil 500' - 2000m	ceil 500' - 2000m

CIRCLE-TO-LAND ❶	100 KT	135 KT	180 KT	205 KT
	1500' (637') ❷	1610' (747')	2600' (1737')	2600' (1737')
	V1500m	V1600m	V2400m	V3600m

❶ After PAR 12L/30R and ASR all rwys: NOT APPLICABLE.

❷ After Lctr rwy 30R: 1570' (707').

TAKE-OFF RWY 12L/R, 30L/R

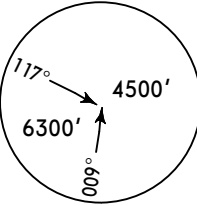
LVP must be in Force			
	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A	250m	400m	500m
B			
C			
D	300m		

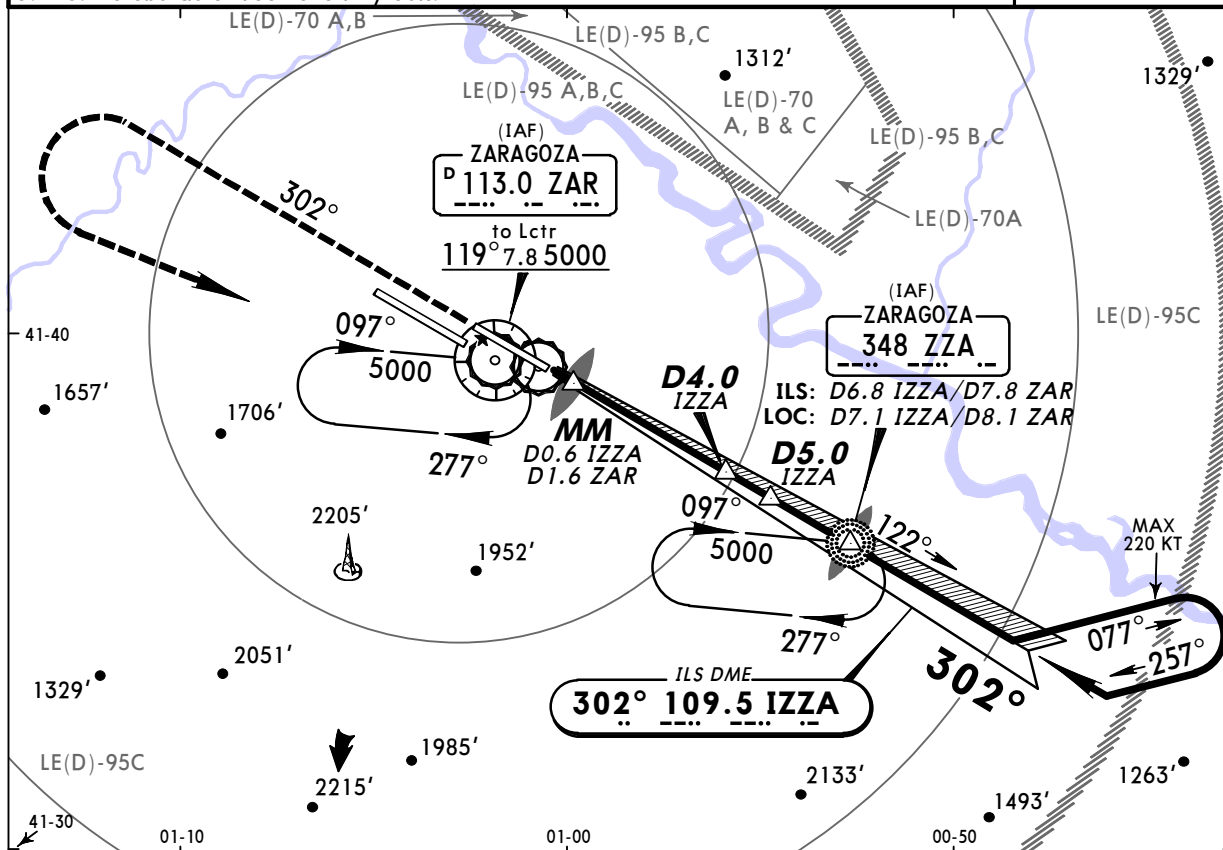
LEZG/ZAZ
ZARAGOZA

JEPPESEN
23 APR 10 **(11-1)** Eff 6 May

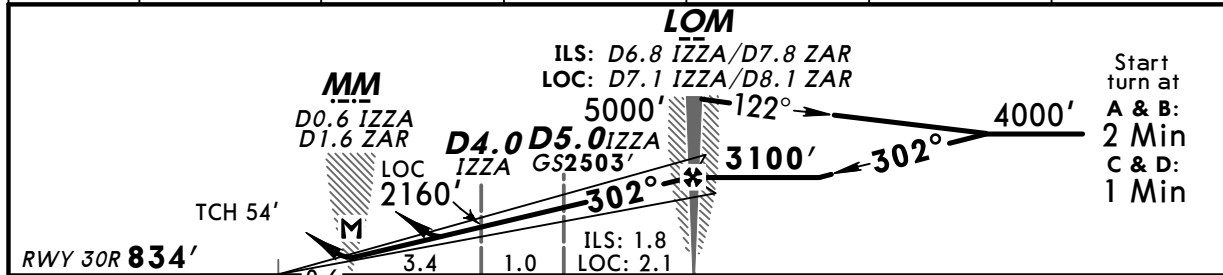
ZARAGOZA, SPAIN
ILS or LOC Rwy 30R

BRIEFING STRIP

ZARAGOZA Approach 119.3 127.05 125.0			ZARAGOZA Tower 122.1		Ground 118.1
For UHF see MIL-101 listing					
LOC IZZA 109.5	Final Apch Crs 302°	GS D5.0 IZZA 2503' (1669')	ILS DA(H) Refer to Minimums	Apt Elev 863' RWY 834'	
MISSED APCH: Climb on runway heading to 3000', then turn LEFT to Lctr climbing to 5000' and hold.					
Alt Set: hPa Rwy Elev: 30 hPa Trans level: By ATC Trans alt: 6000'					
1. ADF, VOR and DME required. 2. ILS DME reads zero at rwy 30R threshold. 3. ILS: No obstacle free zone rwy 30R.					
					MSA ZZA Lctr



LOC (GS out)	IZZA DME	2.0	3.0	4.0	5.0	6.0
	ALTITUDE	1530'	1840'	2160'	2480'	2800'



Gnd speed-Kts	70	90	100	120	140	160
ILS GS or LOC Descent angle 3.00°	377	484	538	646	753	861
MAP at MM/D0.6 IZZA/D1.6 ZAR						

Standard				STRAIGHT-IN LANDING RWY 30R		CIRCLE-TO-LAND	
ILS				LOC (GS out)			
A: 1069' (235') C: 1089' (255')				DA(H) 1300' (466')			
B: 1081' (247') D: 1100' (266')							
FULL/Limited		ALS out		ALS out		Max Kts	MDA(H) VIS
A		RVR 1200m		RVR 1500m		100	1500' (637') 1500m
B	RVR 800m					135	1610' (747') 1600m
C		RVR 1300m				180	2400' (1537') 2400m
D	RVR 900m			RVR 1800m	CMV 2200m	205	2600' (1737') 3600m

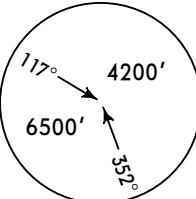
PANS OPS 4

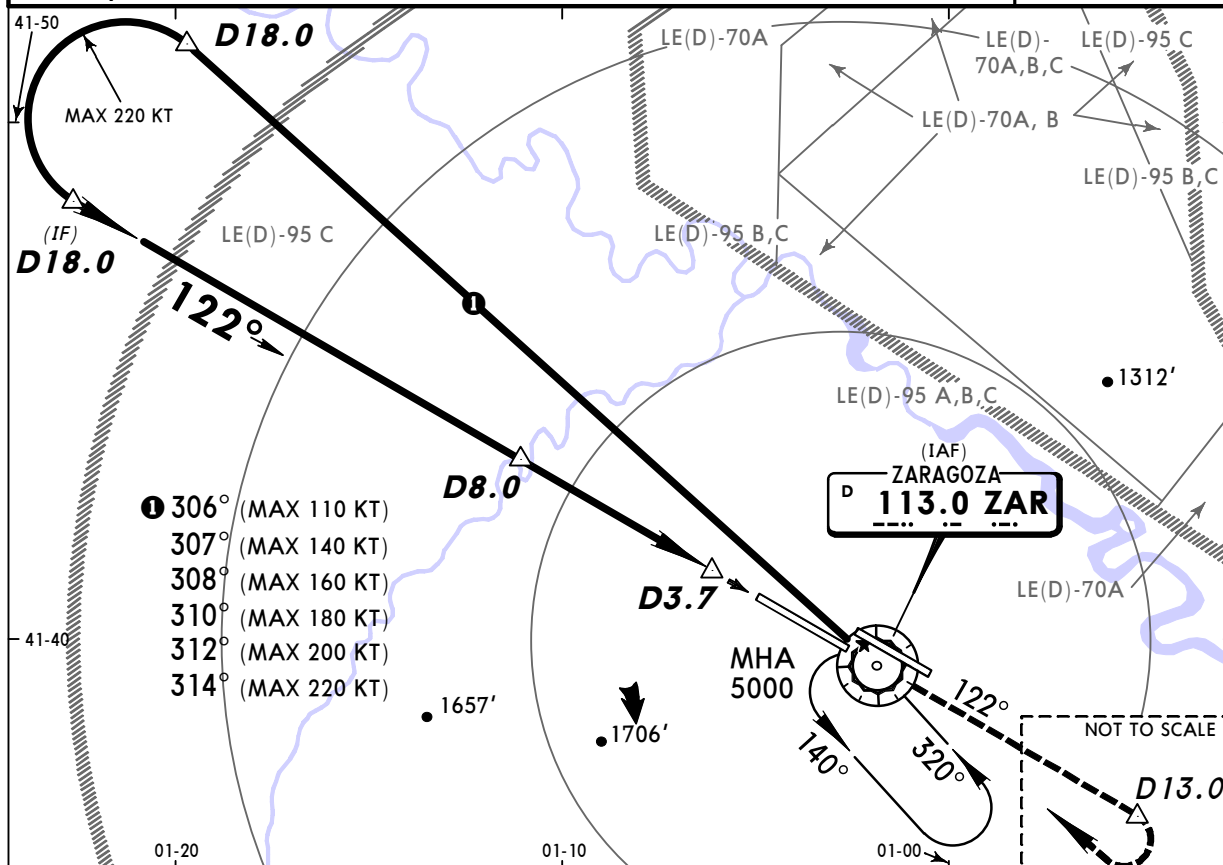
LEZG/ZAZ
ZARAGOZA

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23 APR 10 **(13-1)** Eff 6 May

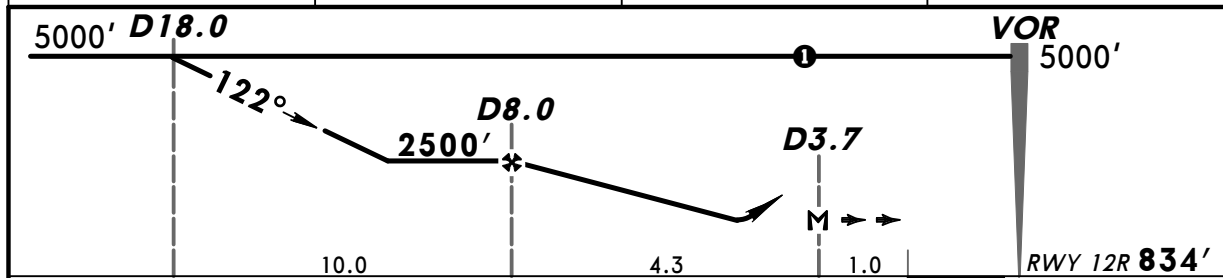
ZARAGOZA, SPAIN
VOR Rwy 12R

BRIEFING STRIP

ZARAGOZA Approach 119.3 127.05 125.0			ZARAGOZA Tower 122.1		Ground 118.1	
For UHF see MIL-101 listing						
VOR ZAR 113.0	Final Apch Crs 122°	Minimum Alt D8.0 2500' (1666')	DA(H) 1330' (496')	Apt Elev 863' RWY 834'		
MISSED APCH: Climb on R-302 inbound to VOR. Climb on R-122 to D13.0, then turn RIGHT climbing to VOR to 5000' and hold.						
Alt Set: hPa Rwy Elev: 30 hPa Trans level: By ATC Trans alt: 6000'						
DME required.						
MSA ZAR VOR						



ZAR DME	7.0	6.0	5.0
ALTITUDE	2240'	1930'	1610'



Gnd speed-Kts	70	90	100	120	140	160	HIALS	ZAR 113.0	ZAR 113.0	D13.0	ZAR 113.0
Descent angle	3.00°	372	478	531	637	743	849	REIL	on R-302	on	on R-122
MAP at D3.7								PAPI			

Standard				CIRCLE-TO-LAND			
STRAIGHT-IN LANDING RWY 12R							
DA(H) 1330' (496')							
ALS out				Max Kts	MDA(H)	VIS	
A	RVR 1500m			100	1500' (637')	1500m	
B				135	1610' (747')	1600m	
C	RVR 1800m			180	2600' (1737')	2400m	
D	CMV 2300m			205	2600' (1737')	3600m	

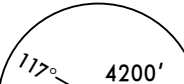
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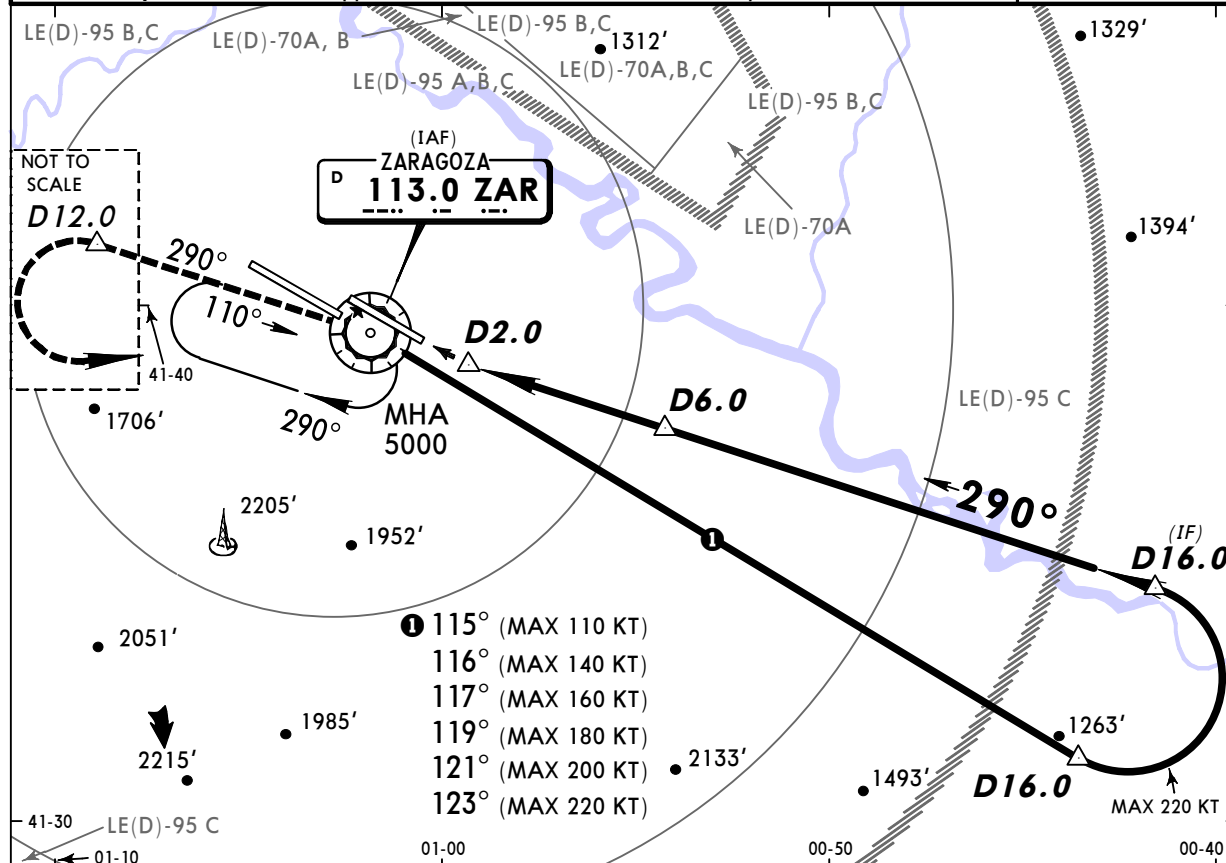
LEZG/ZAZ
ZARAGOZA

JEPPESEN
23 APR 10 **(13-2)** Eff 6 May

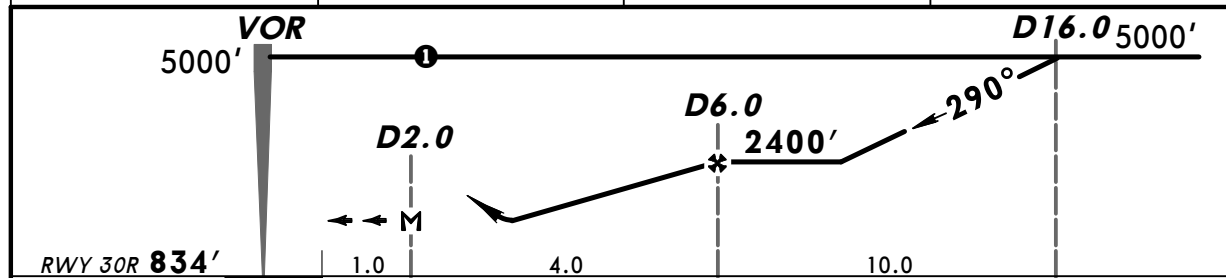
ZARAGOZA, SPAIN
VOR Rwy 30R

BRIEFING STRIP

ZARAGOZA Approach 119.3 127.05 125.0			ZARAGOZA Tower 122.1		Ground 118.1	
For UHF see MIL-101 listing						
VOR ZAR 113.0	Final Apch Crs 290°	Minimum Alt D6.0 2400' (1566')	DA(H) 1330' (496')	Apt Elev 863' RWY 834'		
MISSED APCH: Climb on R-110 inbound to VOR. Climb on R-290 to D12.0, then turn LEFT climbing to VOR to 5000' and hold.						
Alt Set: hPa Rwy Elev: 30 hPa Trans level: By ATC Trans alt: 6000'						
1. DME required. 2. Final approach track offset 12° from runway centerline.						



ZAR DME	3.0	4.0	5.0
ALTITUDE	1510'	1830'	2140'



Gnd speed-Kts	70	90	100	120	140	160	HIALS	ZAR 113.0 on R-110	ZAR 113.0 on R-290
Descent angle	3.00°	372	478	531	637	743	849	REIL	
MAP at D2.0								PAPI	

Standard				CIRCLE-TO-LAND			
STRAIGHT-IN LANDING RWY 30R				CIRCLE-TO-LAND			
DA(H) 1330' (496')							
ALS out				Max Kts	MDA(H)	VIS	
A	RVR 1500m			100	1500' (637')	1500m	
B				135	1610' (747')	1600m	
C	RVR 1800m			180	2600' (1737')	2400m	
D	CMV 2300m			205	2600' (1737')	3600m	

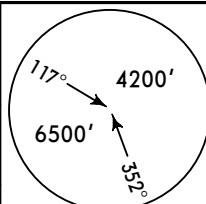
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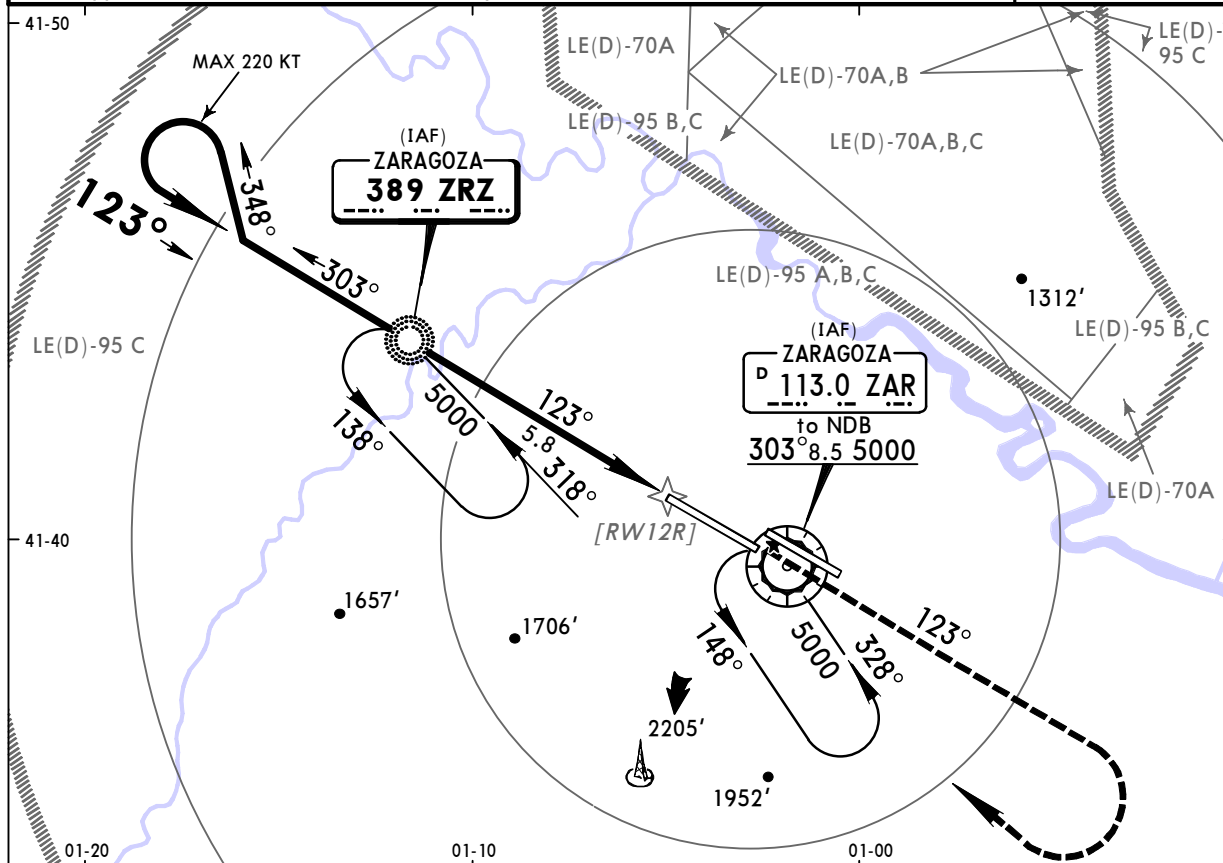
LEZG/ZAZ
ZARAGOZA

JEPPesen
23 APR 10 **(16-1)** Eff 6 May

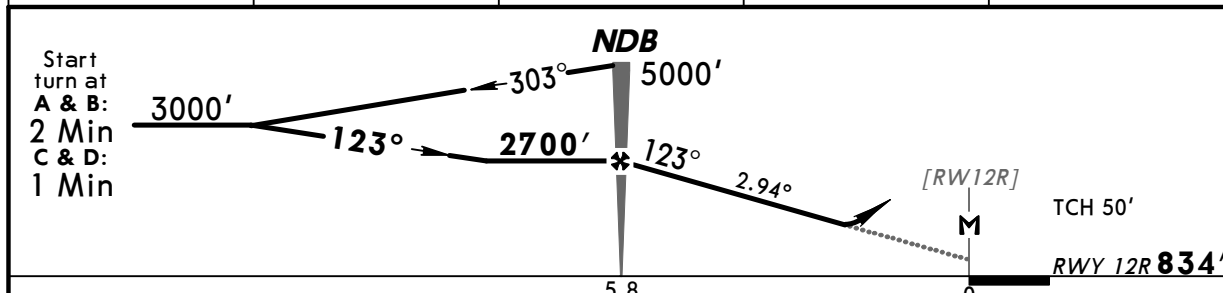
ZARAGOZA, SPAIN
NDB Z Rwy 12R

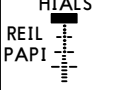
BRIEFING STRIP

ZARAGOZA Approach 119.3 127.05 125.0			ZARAGOZA Tower 122.1		Ground 118.1
For UHF see MIL-101 listing					
NDB ZRZ 389	Final Apch Crs 123°	Minimum Alt NDB 2700' (1866')	DA(H) 1330' (496')	Apt Elev 863' RWY 834'	
MISSED APCH: Climb on track 123° to 4000', then turn RIGHT (MAX 220 KT) climbing to NDB to 5000' and hold.					
Alt Set: hPa Rwy Elev: 30 hPa Trans level: By ATC Trans alt: 6000' Final approach track offset 1° from runway centerline.					



ZAR DME	8.0	7.0	6.0	5.0
ALTITUDE	2550'	2240'	1930'	1620'



Gnd speed-Kts	70	90	100	120	140	160		4000'	on 123°
Descent angle	2.94°	364	468	520	624	728			
NDB to MAP	5.8	4:58	3:52	3:29	2:54	2:29			

Standard STRAIGHT-IN LANDING RWY 12R				CIRCLE-TO-LAND			
DA(H) 1330' (496')							
ALS out				Max Kts	MDA(H)	VIS	
A	RVR 1500m			100	1500' (637')	1500m	
B				135	1610' (747')	1600m	
C				180	2600' (1737')	2400m	
D	RVR 1800m	CMV 2300m		205	2600' (1737')	3600m	

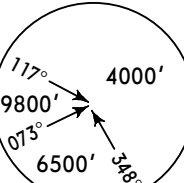
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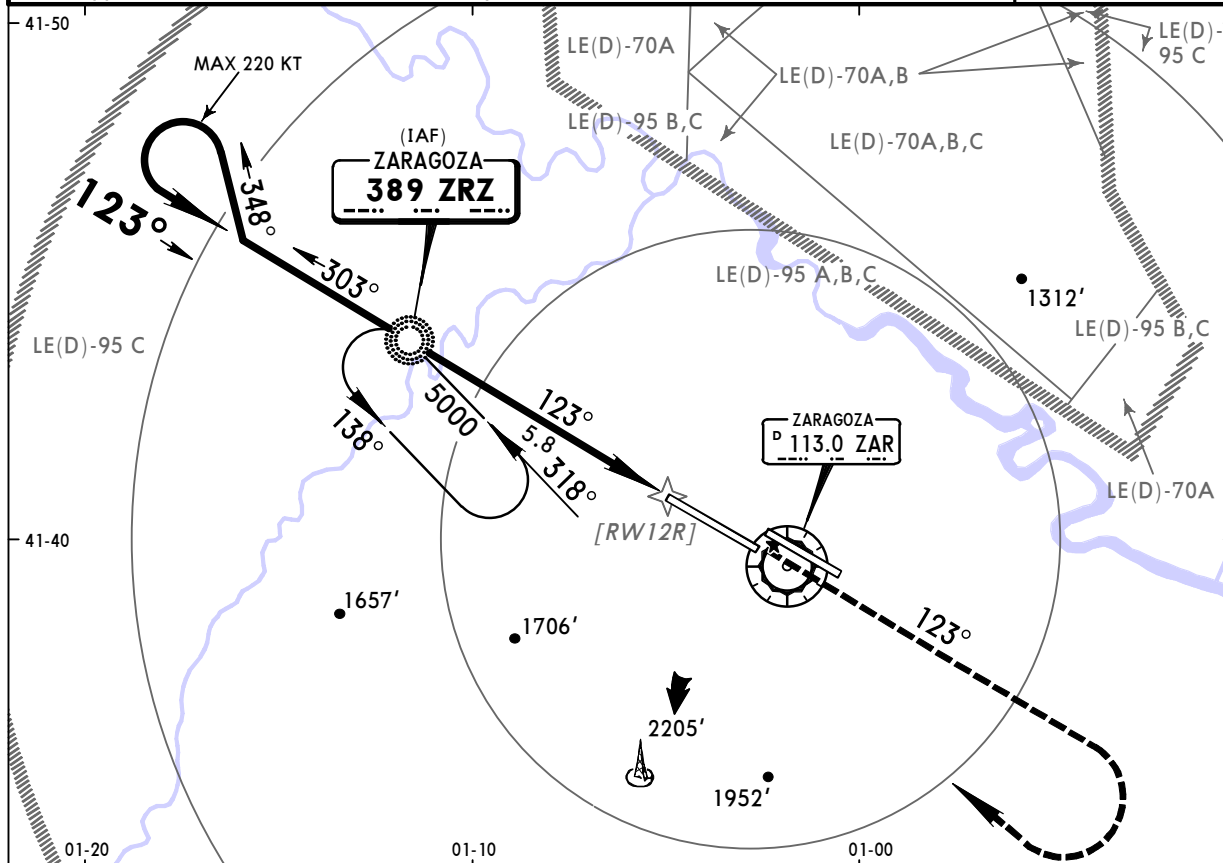
LEZG/ZAZ
ZARAGOZA

JEPPesen
23 APR 10 **(16-2)** Eff 6 May

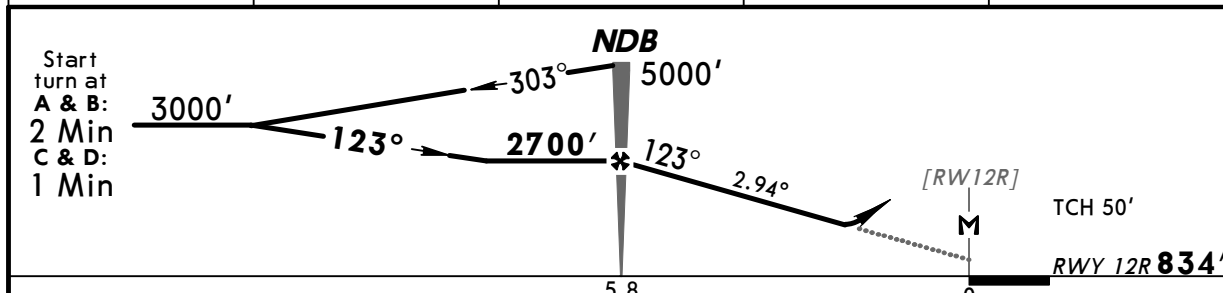
ZARAGOZA, SPAIN
NDB Y Rwy 12R

BRIEFING STRIP

ZARAGOZA Approach 119.3 127.05 125.0			ZARAGOZA Tower 122.1		Ground 118.1		
For UHF see MIL-101 listing							
NDB ZRZ 389	Final Apch Crs 123°	Minimum Alt NDB 2700' (1866')	DA(H) 1430' (596')	Apt Elev 863'	RWY 834'		
MISSED APCH: Climb on track 123° to 4000', then turn RIGHT (MAX 220 KT) climbing to NDB to 5000' and hold.							
Alt Set: hPa			Rwy Elev: 30 hPa		Trans level: By ATC		Trans alt: 6000'
Final approach track offset 1° from runway centerline.							
MSA ZRZ NDB							



ZAR DME	8.0	7.0	6.0	5.0
ALTITUDE	2550'	2240'	1930'	1620'



<i>Gnd speed-Kts</i>	70	90	100	120	140	160
<i>Descent angle</i> 2.94°	364	468	520	624	728	832
<i>NDB to MAP</i> 5.8	4:58	3:52	3:29	2:54	2:29	2:10

REIL
PAPI

HIALS

Standard STRAIGHT-IN LANDING RWY 12R			CIRCLE-TO-LAND		
DA(H) 1430' (596')					
ALS out			Max Kts	MDA(H)	VIS
RVR 1500m			100	1500' (637')	1500m
			135	1610' (747')	1600m
CMV 2300m			180	2600' (737')	2400m
CMV 2400m			205	2600' (737')	3600m

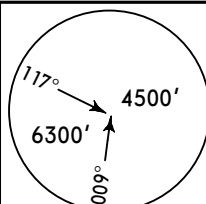
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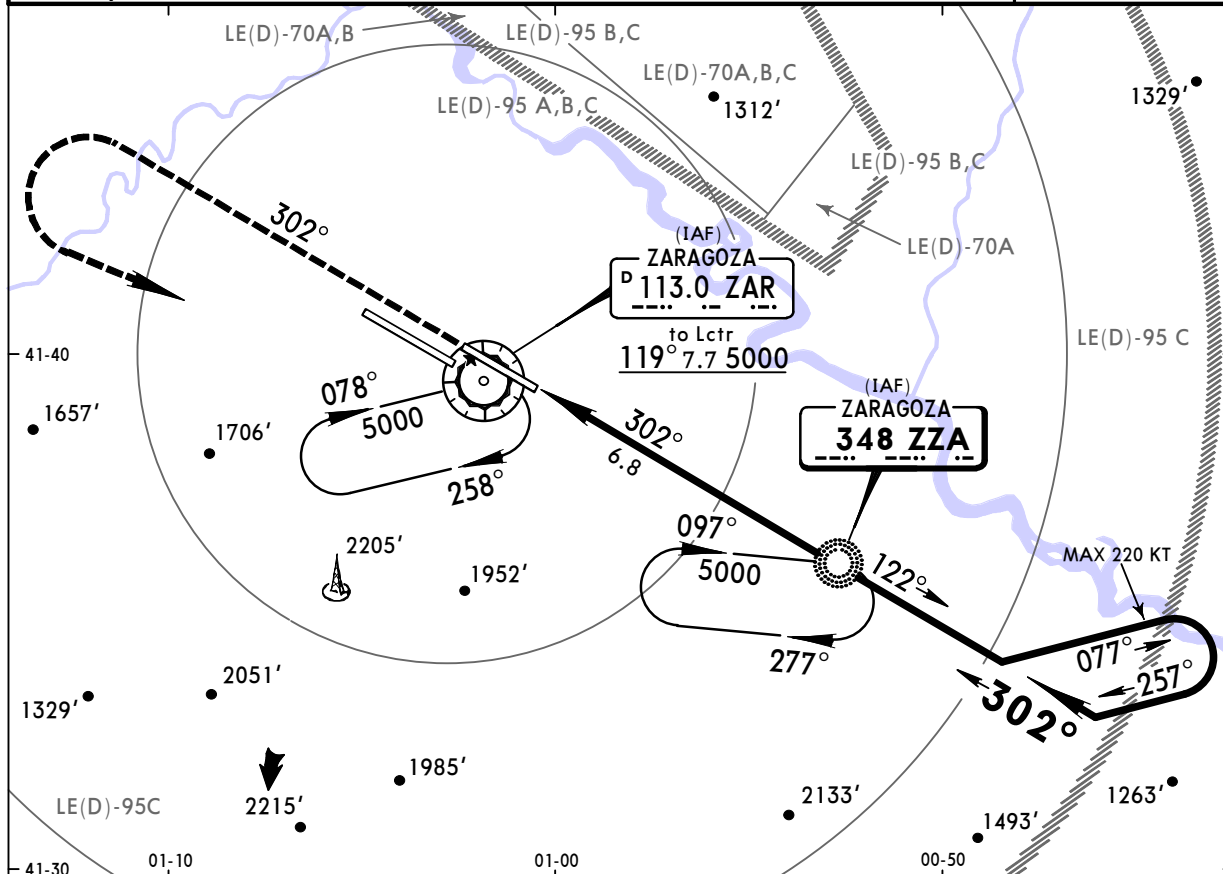
LEZG/ZAZ
ZARAGOZA

JEPPESEN
23 APR 10 **(16-3)** Eff 6 May

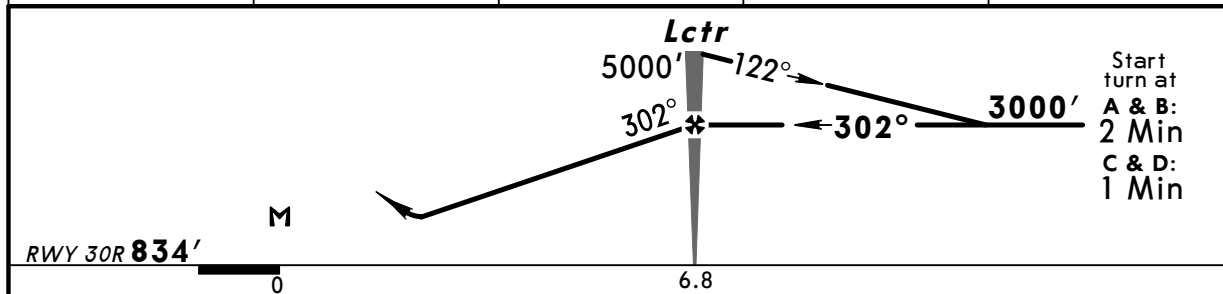
ZARAGOZA, SPAIN
Lctr Rwy 30R

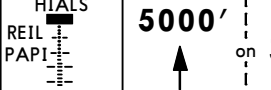
BRIEFING STRIP

ZARAGOZA Approach 119.3 127.05 125.0			ZARAGOZA Tower 122.1		Ground 118.1	
For UHF see MIL-101 listing						
Lctr ZZA 348	Final Apch Crs 302°	Minimum Alt Lctr 3000' (2166')	DA(H) 1570' (736')	Apt Elev 863' RWY 834'		
MISSED APCH: Climb on track 302° to 5000', then turn LEFT (MAX 185 KT) to Lctr and hold.						
Alt Set: hPa		Rwy Elev: 30 hPa	Trans level: By ATC	Trans alt: 6000'		
DME required.						



ZAR DME	4.0	5.0	6.0	7.0
ALTITUDE	1830'	2150'	2460'	2780'



Gnd speed-Kts	70	90	100	120	140	160	
Descent angle	3.00°	372	478	531	637	743	
Lctr to MAP	6.8	5:50	4:32	4:05	3:24	2:55	

Standard				STRAIGHT-IN LANDING RWY 30R				CIRCLE-TO-LAND			
				DA(H) 1570' (736')							
				ALS out							
A	RVR 1500m				Max Kts	MDA(H)		VIS			
B					100	1600' (737')		1500m			
C					135	1610' (747')		1600m			
D	CMV 2400m				180	2600' (1737')		2400m			
					205	2600' (1737')		3600m			

PANS OPS 4

LEZG/ZAZ
ZARAGOZA

20 FEB 09

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(18-1)

PAR Rwy 12L, 30R or ASR all Rwy

ZARAGOZA, SPAIN

BRIEFING STRIP™

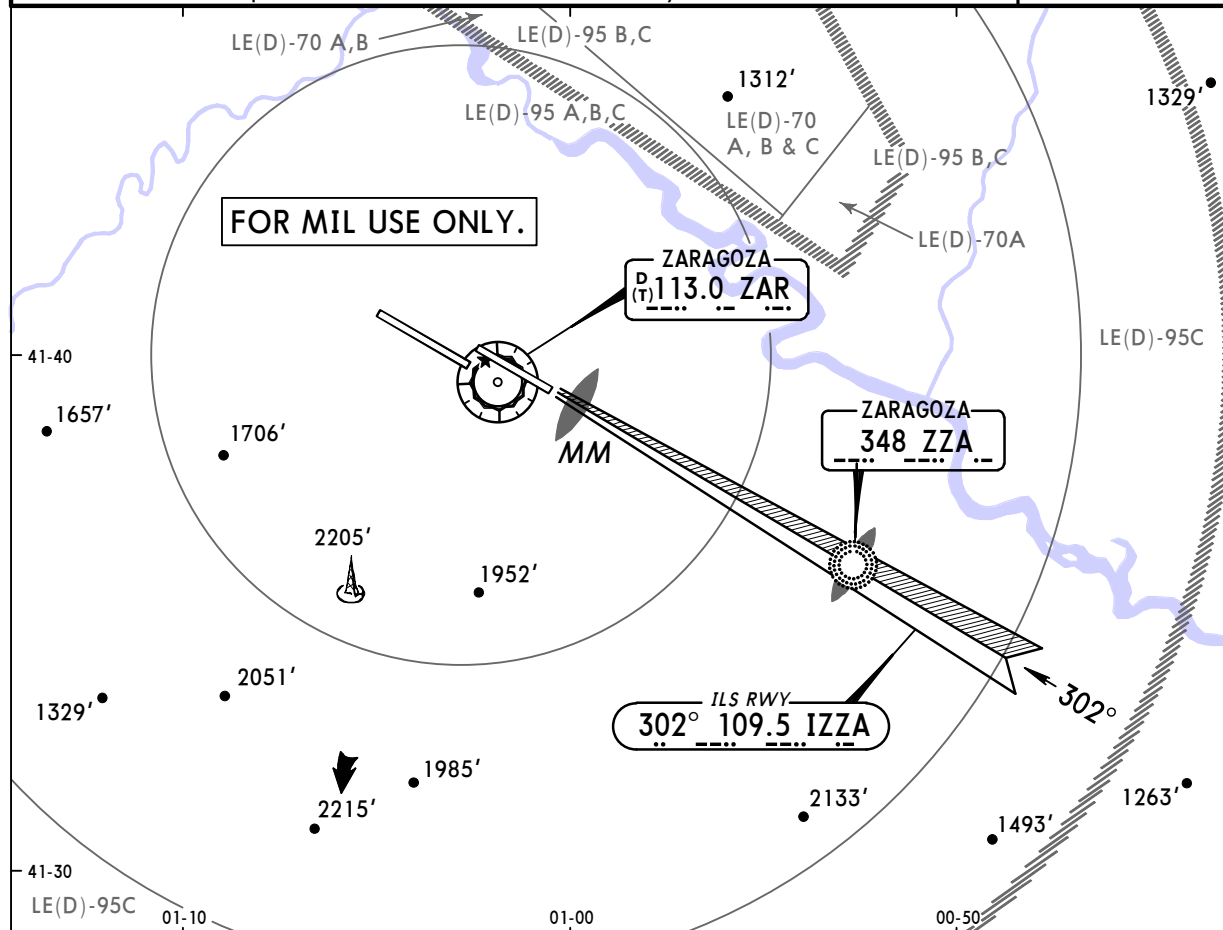
ZARAGOZA Approach	ZARAGOZA GCA (ASR/PAR)	ZARAGOZA Tower	Ground
119.3 127.05 125.0	122.5 123.3	122.1	118.1

For UHF see MIL-101 listing

RADAR	Final Apch Crs By ATC	Minimum Alt No FAF	DA(H)/MDA(H) Refer to Minimums	Apt Elev 863' RWY - See below
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MISSED APCH: As directed by RADAR CONTROLLER.

Alt Set: hPa	Apt Elev: 30 hPa	Trans level: By ATC	Trans alt: 6000'	MSA ZAR VOR
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RWY	12L	12R	30L	30R
ELEV	823'	834'	863'	834'

Rwy 12L, 30R
PAR TCH 42'

Gnd speed-Kts	70	90	100	120	140	160		
PAR 12L, 30R GS	2.50°	315	405	450	539	629	719	

Lighting -
Refer to
Airport ChartRefer to
Missed Apch
above

Standard

STRAIGHT-IN LANDING

CEILING REQUIRED

PAR 12L DA(H) 1023'(200')		PAR 30R DA(H) 1034'(200')		ASR 12L MDA(H) 1330'(507')		ASR 12R MDA(H) 1340'(506')		ASR 30L MDA(H) 1470'(607')		ASR 30R MDA(H) 1340'(506')	
ALS out		ALS out		ALS out		ALS out		ALS out		ALS out	
A				400' - 2100m	400' - 2600m	500' - 2400m	500' - 2600m	600' - 3000m	500' - 2100m	500' - 2600m	
B	100' - VIS 800m	100' - 1200m	100' - 750m	100' - 1200m	400' - 2300m	400' - 2800m	500' - 2800m	600' - 3200m	500' - 2300m	500' - 2800m	
C											
D											

PANS OPS 4

CHANGES: Minimums.

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