

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

No revision activity since Disc 22-2010

TERMINAL CHART NOTAMs

No Chart NOTAMs for Airport LEBB

General Info

Bilbao, ESP

N 43° 18.1' W 02° 54.6' Mag Var: 3.2°W

Elevation: 137'

Public, IFR, Control Tower, Customs, Landing Fee

Fuel: 100LL, Jet A-1

Time Zone Info: GMT+1:00 uses DST

Runway Info

Runway 10-28 6562' x 148' asphalt

Runway 12-30 8530' x 148' concrete

Runway 10 (99.0°M) TDZE 118'

Lights: Edge, ALS

Right Traffic

Runway 12 (119.0°M) TDZE 131'

Lights: Edge, ALS, Centerline

Runway 28 (279.0°M) TDZE 131'

Lights: Edge

Runway 30 (299.0°M) TDZE 137'

Lights: Edge, ALS, Centerline, TDZ

Right Traffic

Displaced Threshold Distance 1509'

Communications InfoATIS **118.825**Bilbao Tower **118.5**Bilbao Tower **257.80** MilitaryBilbao Ground Control **121.7**Bilbao Approach Control **120.7****Notebook Info**

LEBB/BIO
BILBAO**JEPPesen**
27 JUL 07 **10-1P** Eff 2 Aug**BILBAO, SPAIN**
AIRPORT BRIEFING**1. GENERAL****1.1. ATIS**

*ATIS 118.82

1.2. NOISE ABATEMENT PROCEDURES**1.2.1. RUN-UP TESTS**

Run-up test higher than idle regime will be requested to CECOPS through SITA or fax.
Run-up tests at medium or high regime are not allowed between 2400-0600 LT.

1.3. LOW VISIBILITY PROCEDURES (LVP)**1.3.1. GENERAL**

Low visibility take-offs are authorized from RWY 30.

LVP will be applied for take-off, when RVR measurement of any transmissometer or meteorological visibility is 500m or below.

Pilots will be informed about the application of LVP by the appropriate ATIS service.

Pilots will be informed when the application of procedures is cancelled, which will take place when RVR measurements are higher than 1000 m and with a strong tendency to improve.

1.3.2. GROUND MOVEMENT

When operating in low visibility conditions, TWR will activate, besides the appropriate marking lights, all the available stop bars and the intermediate holding point lights in gates A-1, A-2 and B will open the appropriate stop bar to allow the entry of ONLY ONE ACFT, closing it as soon as the ACFT has gone over it.

Pilots will proceed to verify at every moment the ACFT position, checking that taxiing is being executed under total safety conditions. In case of being disoriented or in doubt, pilots will stop the ACFT and immediately notify TWR.

When a departing ACFT needs to return to the apron, the pilot will inform TWR and wait for new taxiing instructions.

ARRIVAL:

ACFT, that have already landed:

- notify RWY vacated, and TWY used.
- wait for taxiing instructions from TWR.

At the apron entry, ACFT must wait for the arrival of a Follow-me car in order to be guided to the assigned stand.

DEPARTURE:

From North apron:

ACFT will exit via gates A-1, A-2 or B, taxiing through TWY segments T-4, T-3 and/or T-2, T-1 and C-1, as appropriate, to RWY 30 holding point (stop bar).

From there, ACFT will enter RWY 30 to accomplish the take-off.

From South apron:

ACFT will taxi to leave the apron via TWY D-3 and will continue through TWY D-1 to RWY 12 holding point (stop bar).

From there, ACFT will enter RWY 12 to perform a complete "back track" to RWY 30.

LEBB/BIO
BILBAO

27 JUL 07

JEPPESEN

(10-1P1)

Eff 2 Aug

BILBAO, SPAIN
AIRPORT BRIEFING

1. GENERAL

1.3.3. COMMUNICATION FAILURE

Whenever an ACFT operating in the manoeuvring area experiences a communication failure, it will comply as follows:

Departing ACFT will continue by the assigned route to its clearance limit, taking extreme caution to avoid deviations. Once that point has been reached, it will hold position and wait for the arrival of a Follow-me car in order to be guided to the stand position.

1.4. PARKING INFORMATION

On stands 12 and 13 push-back required when stand 123 is occupied by ACFT larger CRJ2.

Stand 19 push-back required if stand 20 is occupied.

Stand 21 push-back required when stand 20 is occupied by ACFT larger B734.

Exit stands 1 thru 6A, 8, 11, 11A, 20, 21A, 78, 89 and 123 on North Ramp by towing.

1.5. OTHER INFORMATION

RWYs 10 and 30 right-hand circuit.

Apron South not visible from TWR.

2. ARRIVAL

2.1. SPEED RESTRICTIONS**2.2.1. SPEED ADJUSTMENTS UNDER RADAR CONTROL**

- MAX 250 KT at or below FL 120.
- MAX 210 KT when starting the turn to intercept ILS/LOC.
- MAX 180 KT when turn is completed and ACFT is established on ILS/LOC course within 20NM of the landing THR.
- MAX 160 KT when crossing 4NM to landing THR.
- ACFT with cruising speed lower than the mentioned above shall maintain cruising speed up to the adjusting fix concerned.

3. DEPARTURE

3.1. START-UP, PUSH-BACK & TAXI PROCEDURES

Request clearance to start-up engines from Tower (GND) and report:

- Type of ACFT
- Parking stand
- ATIS message received

Pilots will request clearance for push-back and/or taxi on the appropriate frequency.

3.2. SPEED RESTRICTIONS

MAX 250 KT until leaving FL 100.

LEBB/BIO
BILBAO

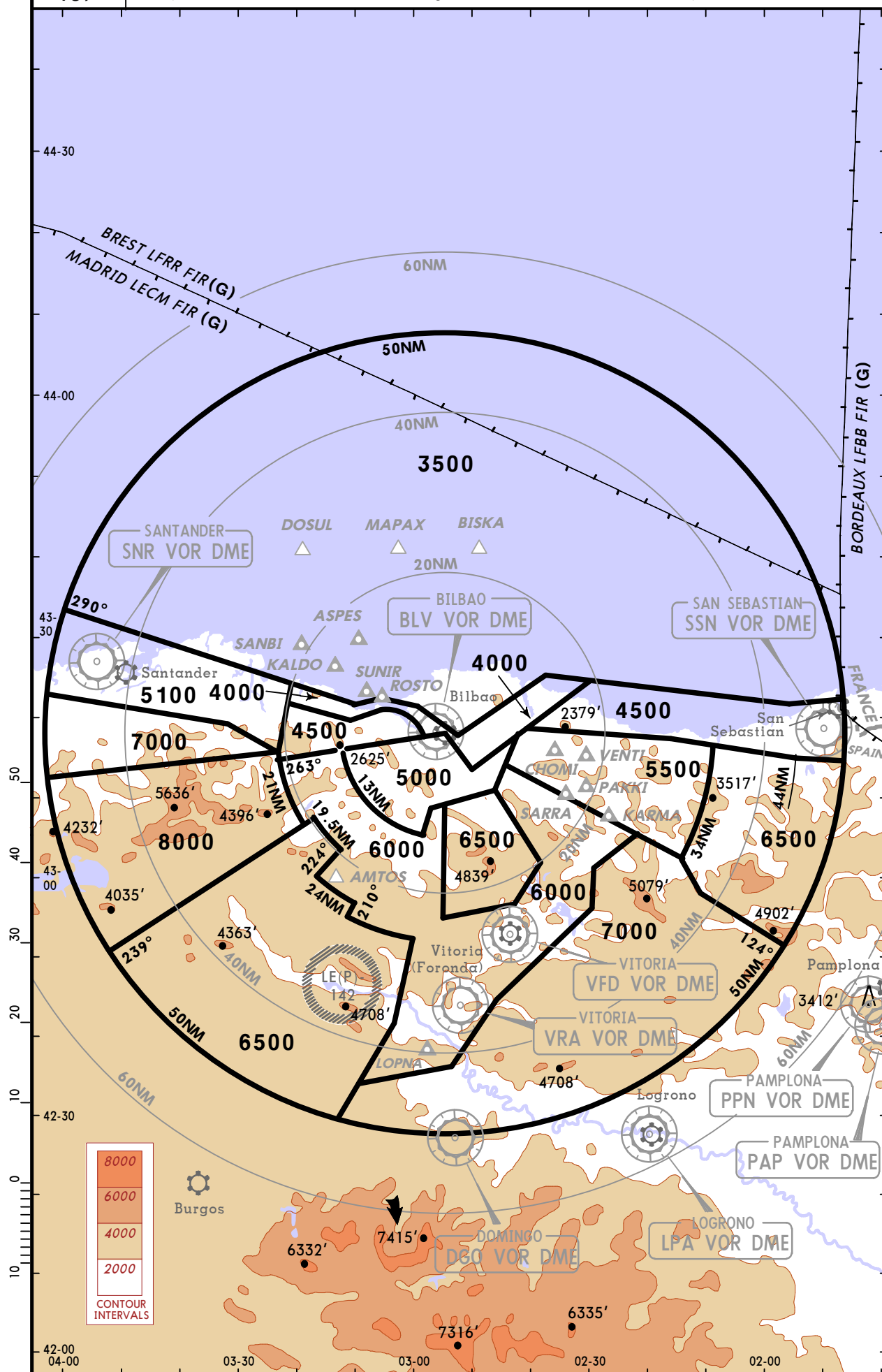
JEPPesen
23 APR 10 **(10-1R)**

BILBAO, SPAIN

RADAR MINIMUM ALTITUDES

Apt Elev
137'

Alt Set: hPa Trans level: By ATC Trans alt: 6000'
The published minimum altitudes integrate no correction for low temperatures.



CHANGES: New chart.

© JEPPesen, 2010. ALL RIGHTS RESERVED.

LEBB/BIO
BILBAO

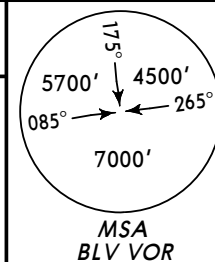
JEPPESEN
 21 NOV 08 **10-2**

BILBAO, SPAIN
STAR

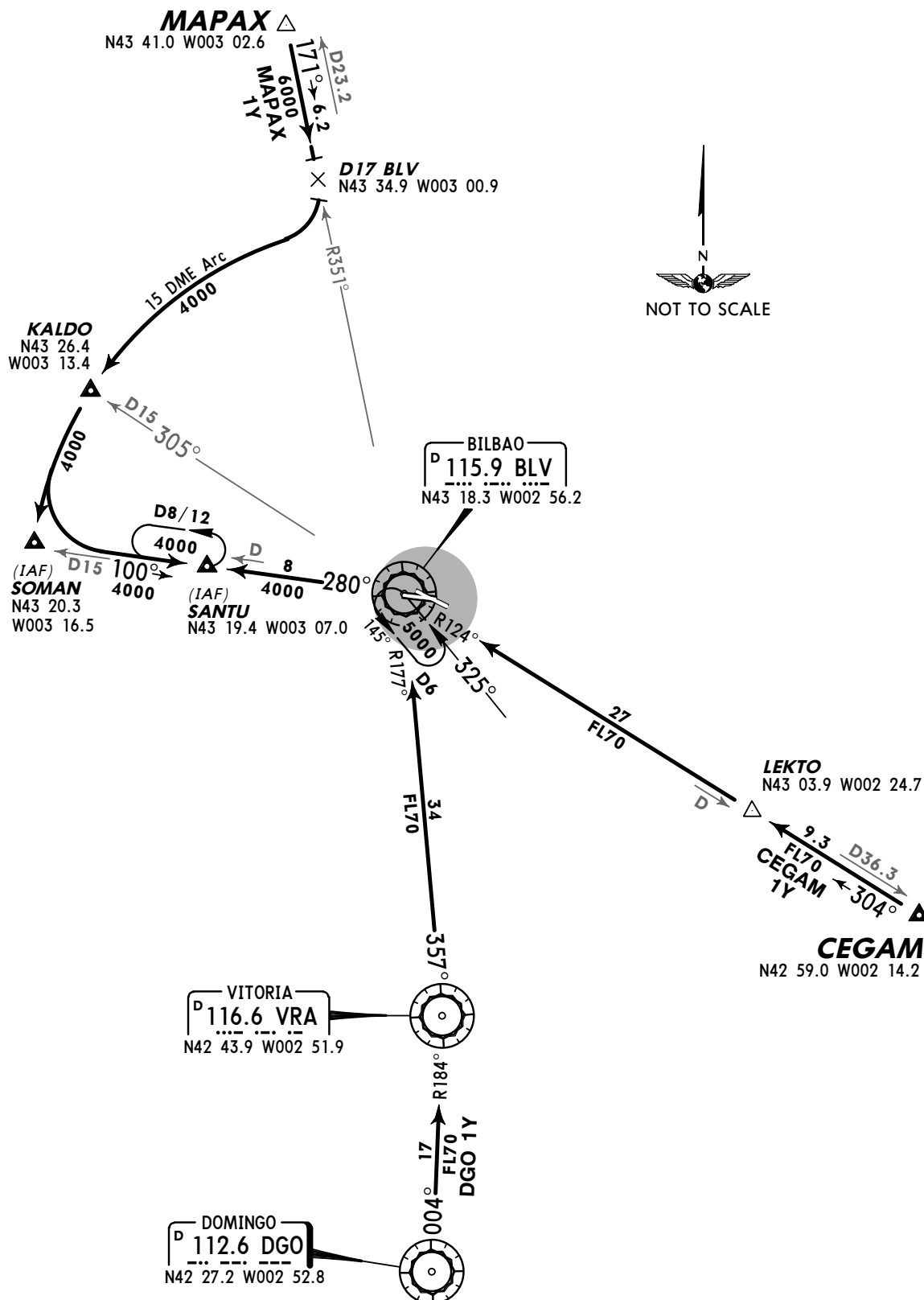
*ATIS
 118.82

Apt Elev
 137'

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



CEGAM ONE YANKEE (CEGAM 1Y) [CEGA1Y]
DOMINGO ONE YANKEE (DGO 1Y)
MAPAX ONE YANKEE (MAPAX 1Y) [MAPA1Y]
RWY 10 ARRIVALS
FROM NORTH & SOUTH



LEBB/BIO
BILBAO

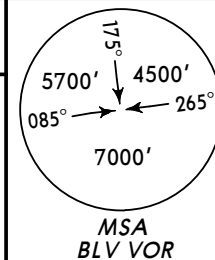
JEPPESEN
21 NOV 08 **(10-2A)**

BILBAO, SPAIN
STAR

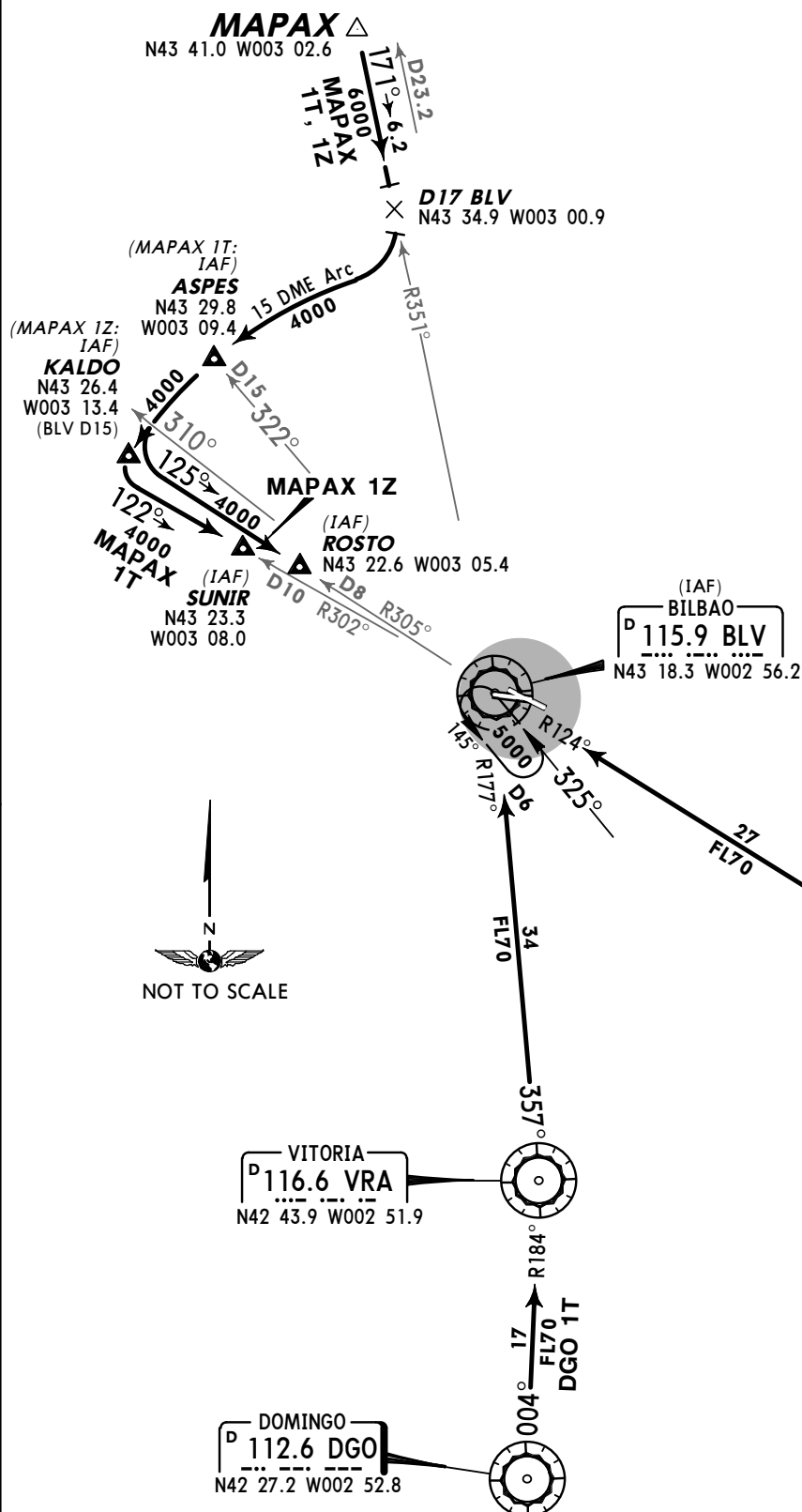
*ATIS
118.82

Apt Elev
137'

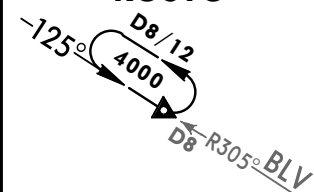
Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



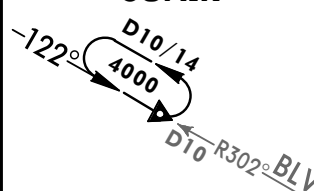
CEGAM ONE TANGO (CEGAM 1T) [CEGA1T]
DOMINGO ONE TANGO (DGO 1T)
MAPAX ONE TANGO (MAPAX 1T) [MAPA1T]
MAPAX ONE ZULU (MAPAX 1Z) [MAPA1Z]
RWY 12 ARRIVALS
FROM NORTH & SOUTH



HOLDINGS OVER ROSTO



SUNIR



NOT TO SCALE

LEBB/BIO
BILBAO

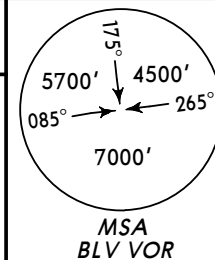
JEPPESEN
28 MAR 08 **(10-2B)**

BILBAO, SPAIN
STAR

*ATIS
118.82

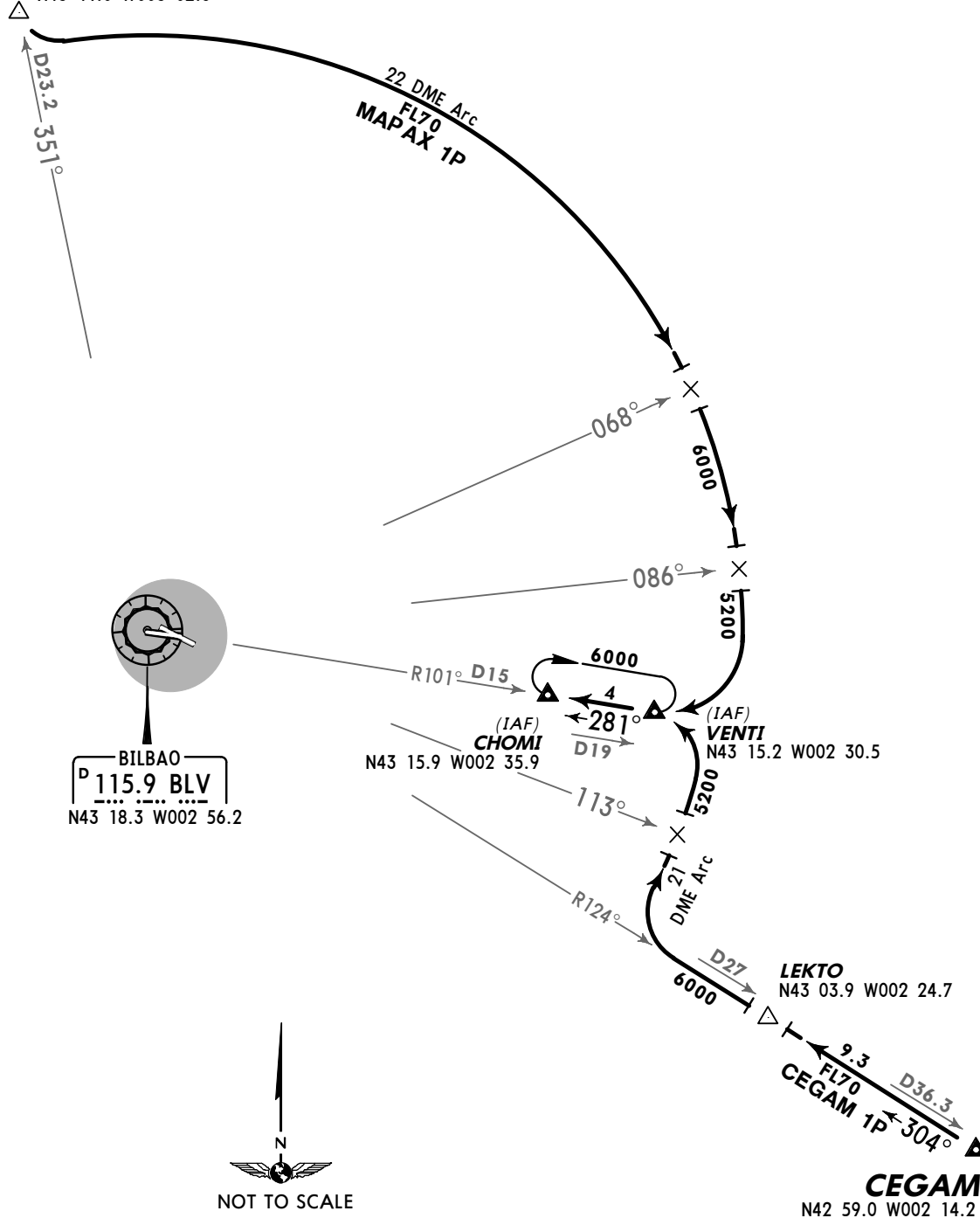
Apt Elev
137'

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



CEGAM ONE PAPA (CEGAM 1P) [CEGA1P]
MAPAX ONE PAPA (MAPAX 1P) [MAPA1P]
RWY 28 ARRIVALS
FROM NORTH & SOUTH

MAPAX
N43 41.0 W003 02.6



LEBB/BIO
BILBAO

BILBAO, SPAIN

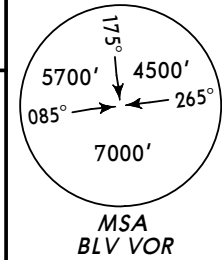
28 MAR 08 (10-2C)

STAR

*ATIS
118.82

Apt Elev
137'

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

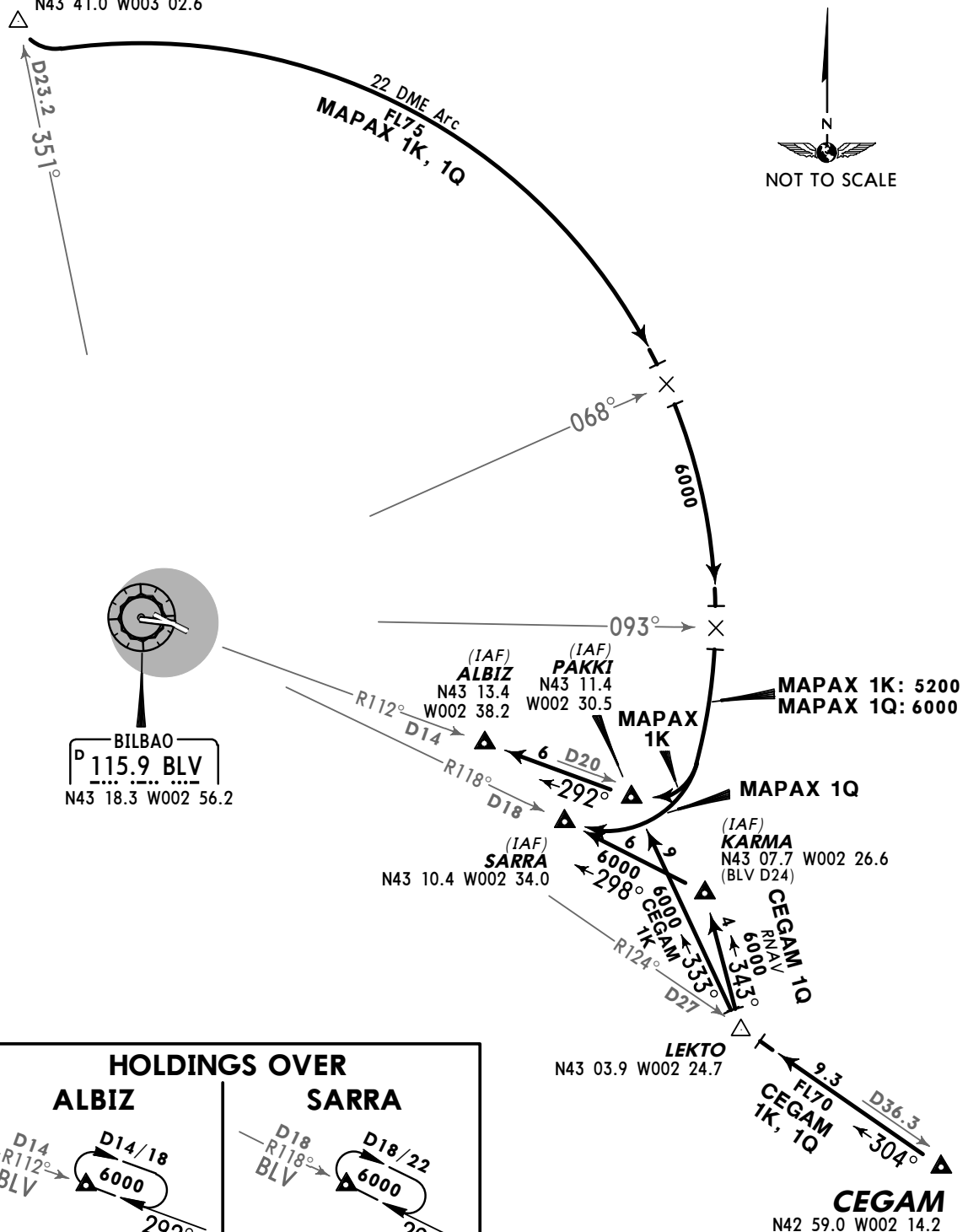


CEGAM ONE KILO (CEGAM 1K) [CEGA1K]
 MAPAX ONE KILO (MAPAX 1K) [MAPA1K]
 MAPAX ONE QUEBEC (MAPAX 1Q) [MAPA1Q]
 RWY 30 ARRIVALS

**CEGAM ONE QUEBEC (CEGAM 1Q) [CEGA1Q]
RWY 30 RNAV ARRIVAL
FROM NORTH & SOUTH**

MAPAX

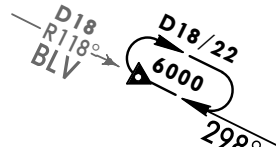
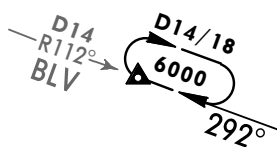
N43 41.0 W003 02.6



HOLDINGS OVER

ALBIZ

SARRA

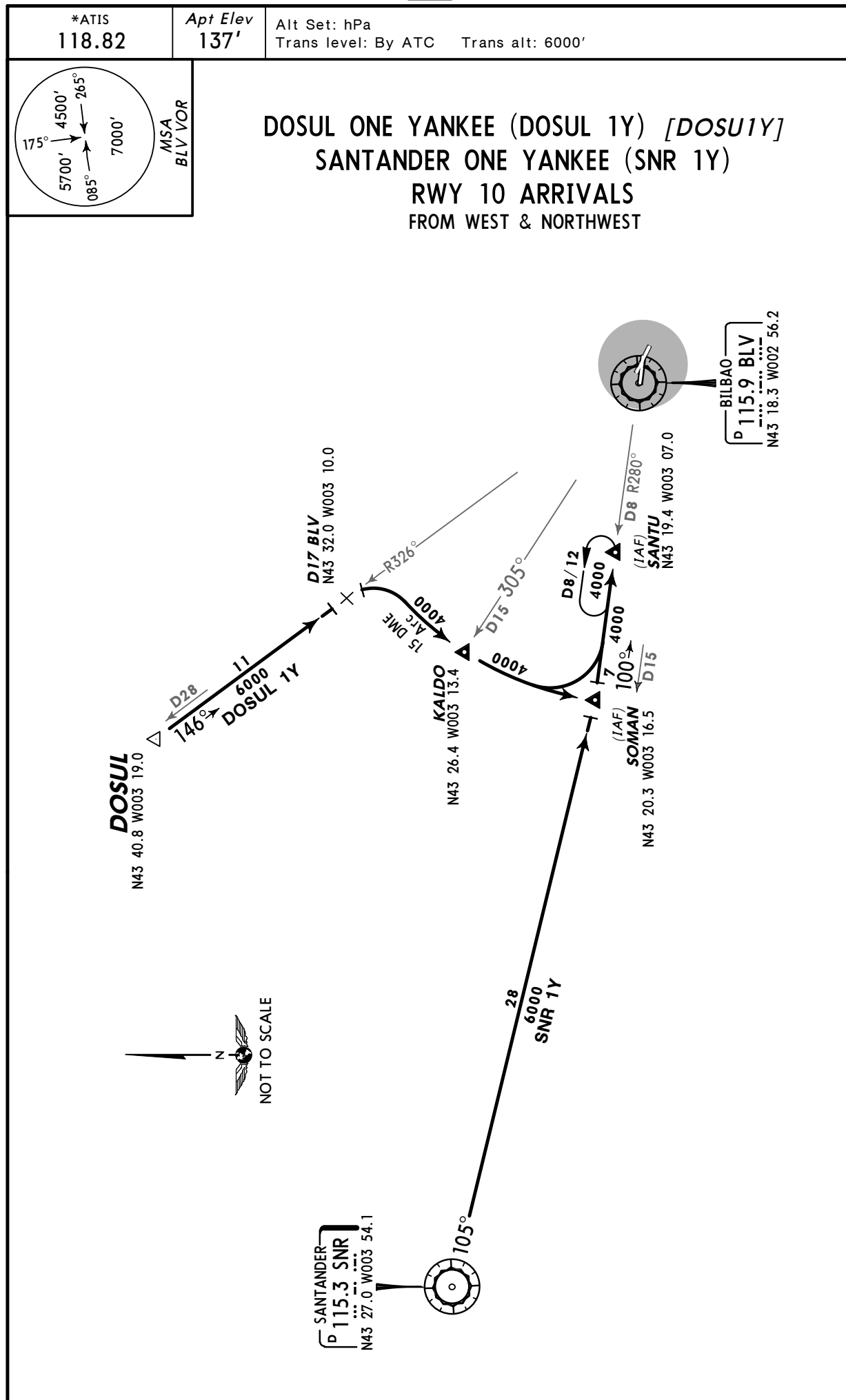


CEGAM
N42 59.0 W002 14.2

LEBB/BIO
BILBAO

JEPPESEN
 21 NOV 08 **10-2D**

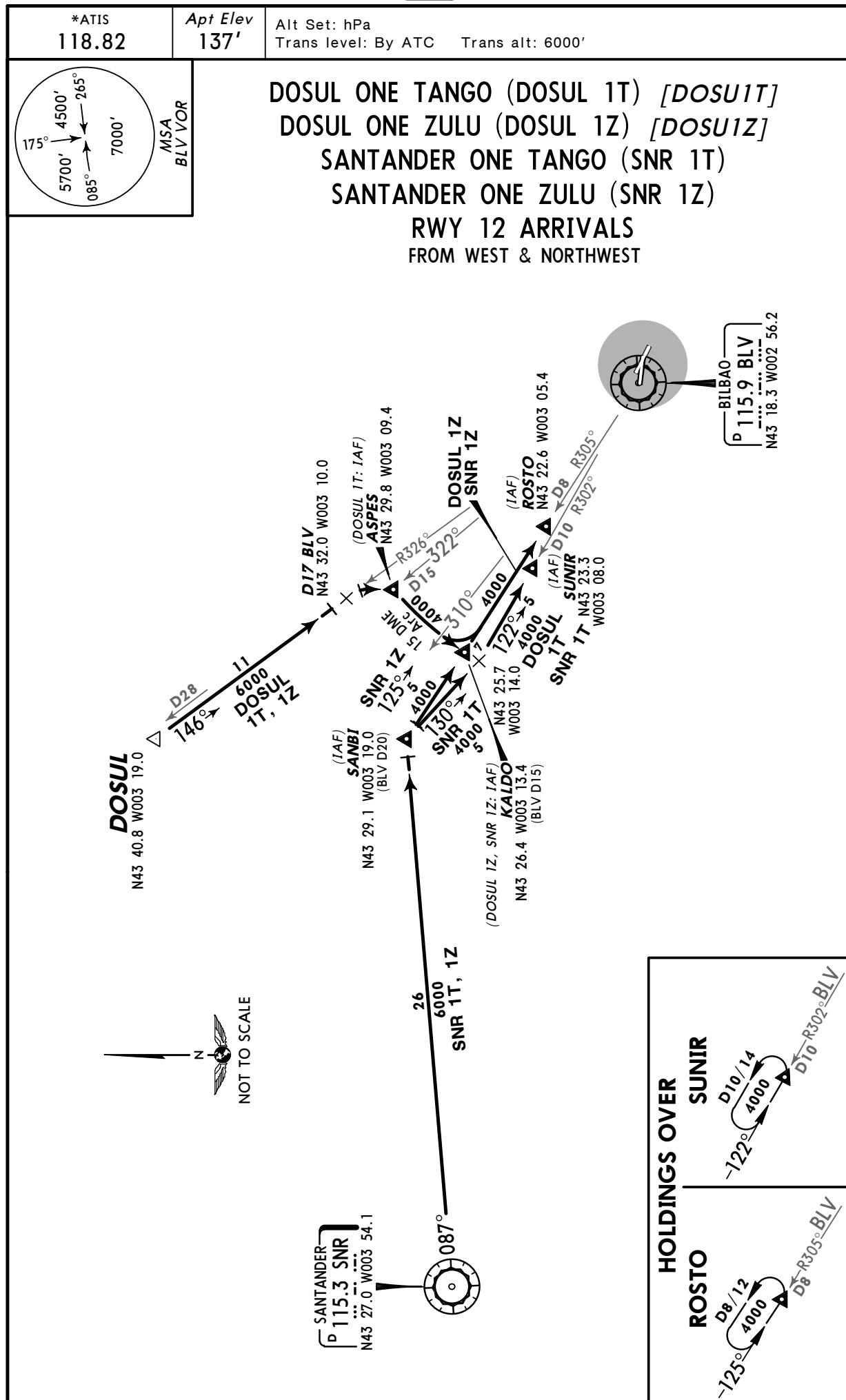
BILBAO, SPAIN
STAR



LEBB/BIO
BILBAO

JEPPESEN
 21 NOV 08 **(10-2E)**

BILBAO, SPAIN
STAR



LEBB/BIO
BILBAO

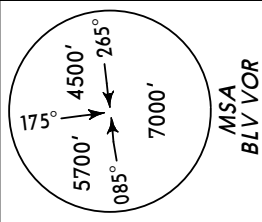
JEPPESEN
24 JUL 09 **10-2F** **Eff 30 Jul**

BILBAO, SPAIN
STAR

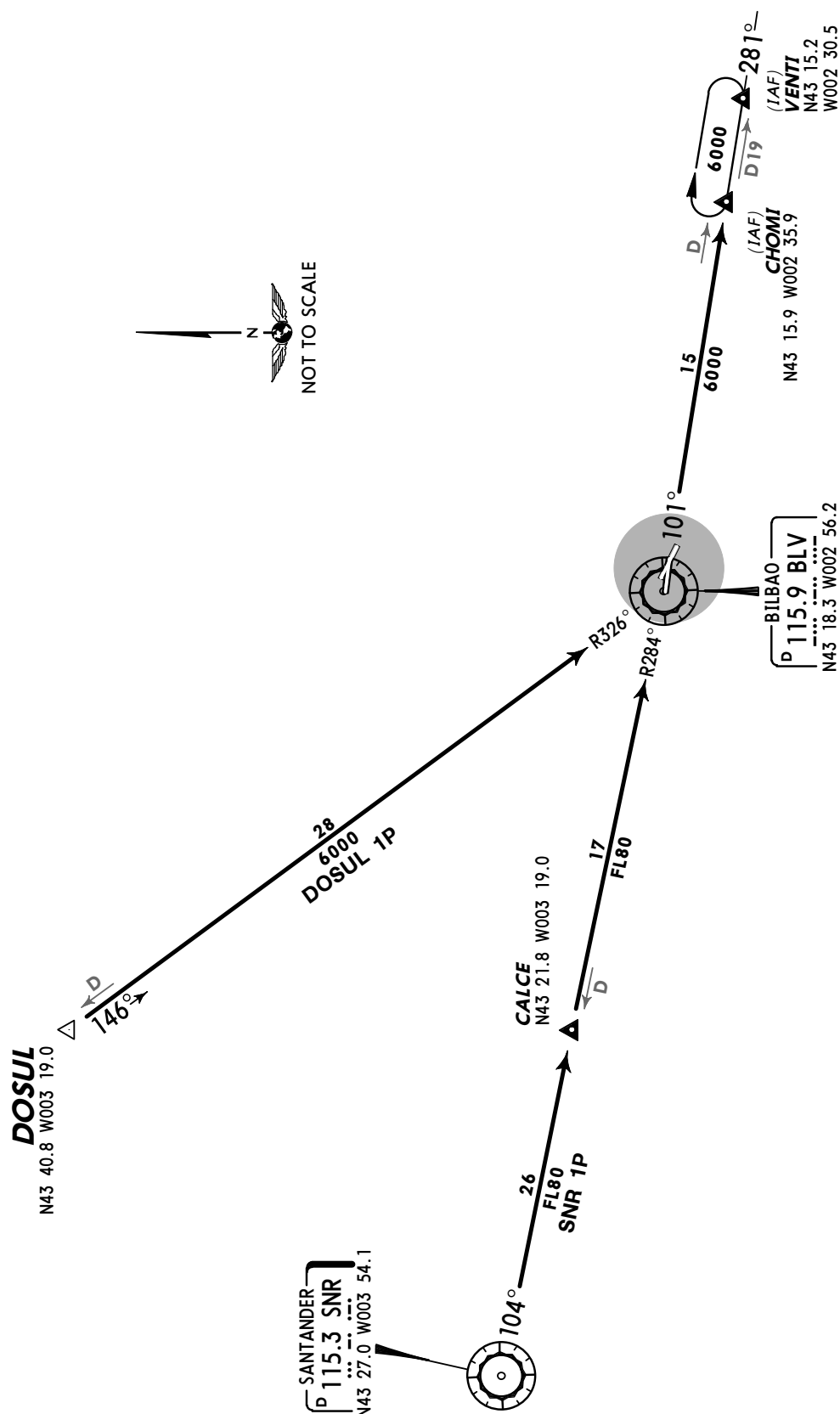
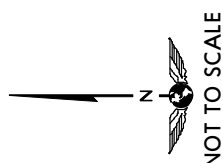
*ATIS
118.82

Apt Elev
137'

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



DOSUL ONE PAPA (DOSUL 1P) [DOSU1P]
SANTANDER ONE PAPA (SNR 1P)
RWY 28 ARRIVALS
FROM WEST & NORTHWEST
~~SPEED~~ MAX 250 KT AT OR BELOW FL120



LEBB/BIO
BILBAO

JEPPESEN
24 JUL 09 **(10-2G)** **Eff 30 Jul**

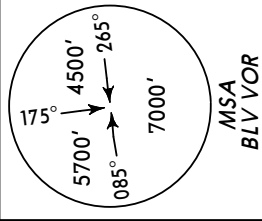
BILBAO, SPAIN

STAR

*ATIS
118.82

Apt Elev
137'

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

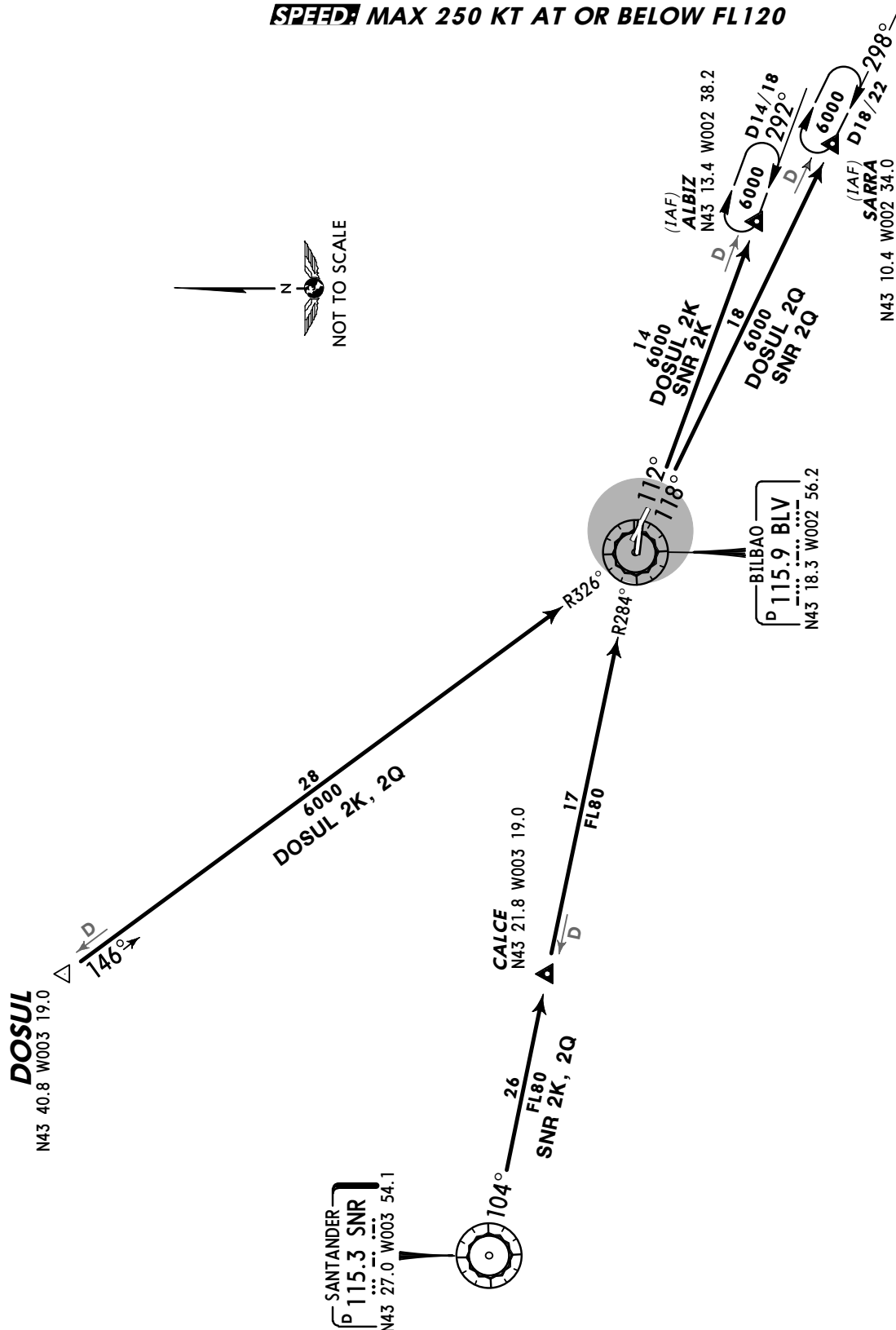


DOSUL TWO KILO (DOSUL 2K) [DOSU2K]
DOSUL TWO QUEBEC (DOSUL 2Q) [DOSU2Q]
SANTANDER TWO KILO (SNR 2K)
SANTANDER TWO QUEBEC (SNR 2Q)

RWY 30 ARRIVALS

FROM WEST & NORTHWEST

~~SPEED~~ MAX 250 KT AT OR BELOW FL120



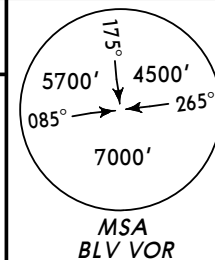
LEBB/BIO
BILBAO

JEPPESEN
28 MAR 08 **(10-3)**

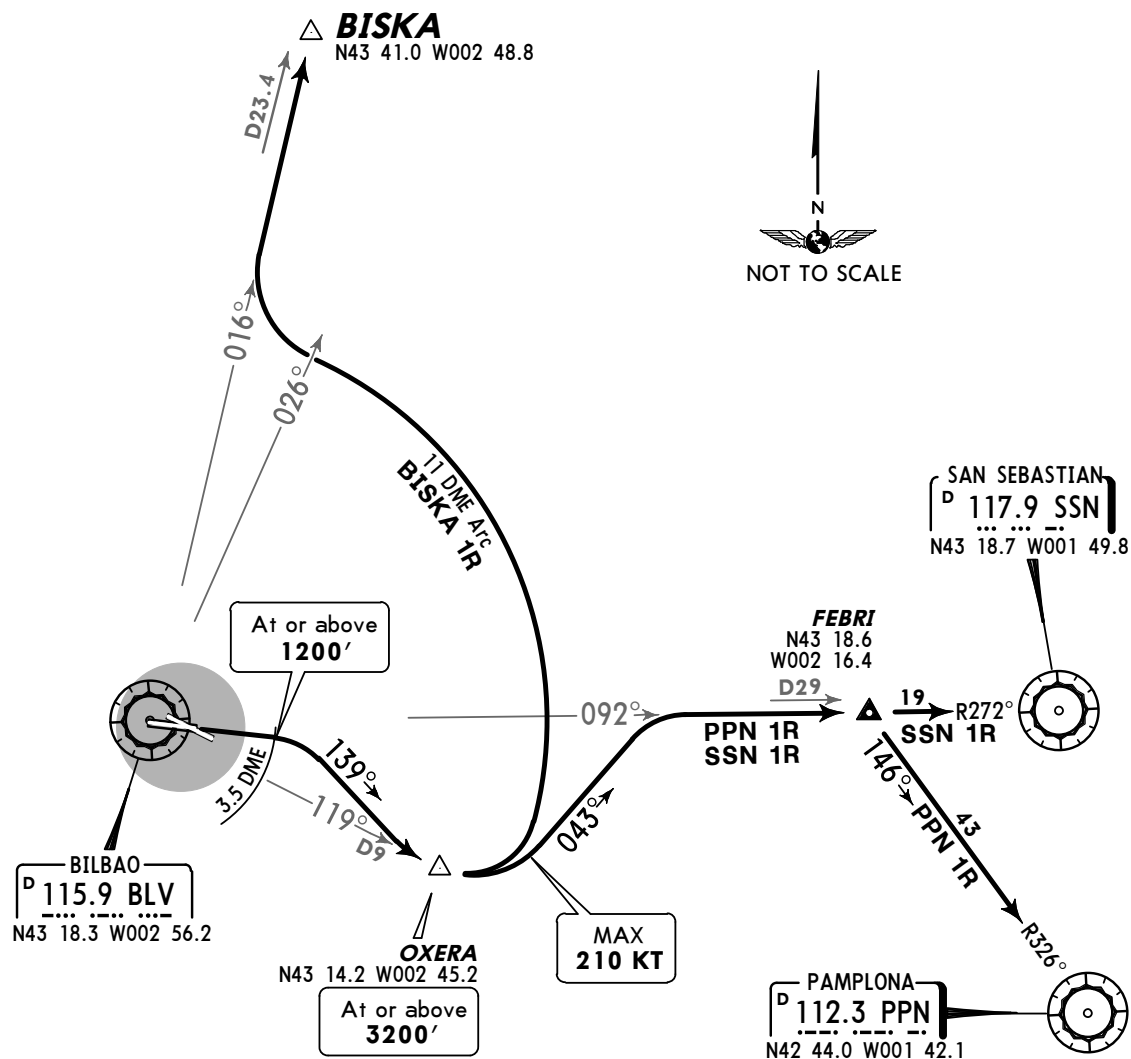
BILBAO, SPAIN
SID

Apt Elev
137'

Trans level: By ATC Trans alt: 6000'



BISKA ONE ROMEO (BISKA 1R) [BISK1R]
PAMPLONA ONE ROMEO (PPN 1R)
SAN SEBASTIAN ONE ROMEO (SSN 1R)
RWY 10 DEPARTURES
TO NORTHEAST, EAST & SOUTHEAST
~~SPEED~~ MAX 250 KT UNTIL LEAVING FL100



These SIDs require a minimum climb gradient
of
425' per NM (7%)

BISKA 1R
until leaving **3200'**
PPN 1R, SSN 1R
until leaving **5000'**

Gnd speed-KT	75	100	150	200	250	300
425' per NM	532	709	1063	1418	1772	2127

Initial climb clearance **FL80** , except ATC clearance

SID	INITIAL CLIMB/ROUTING
BISKA 1R	Climb on runway heading to BLV 3.5 DME, turn RIGHT, 139° track, intercept BLV R-119 to OXERA, turn LEFT, along BLV 11 DME arc, when passing BLV R-026 turn RIGHT, intercept BLV R-016 to BISKA.
PPN 1R	Climb on runway heading to BLV 3.5 DME, turn RIGHT, 139° track, intercept BLV R-119 to OXERA, turn LEFT, 043° track, intercept BLV R-092 to FEBRI, turn RIGHT, intercept PPN R-326 inbound to PPN.
SSN 1R	Climb on runway heading to BLV 3.5 DME, turn RIGHT, 139° track, intercept BLV R-119 to OXERA, turn LEFT, 043° track, intercept BLV R-092 via FEBRI to SSN.

CHANGES: MSA.

© JEPPESEN, 2005, 2008. ALL RIGHTS RESERVED.

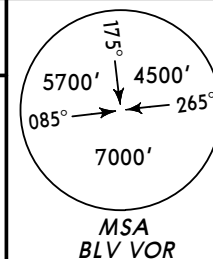
LEBB/BIO
BILBAO

JEPPESEN
28 MAR 08 **(10-3A)**

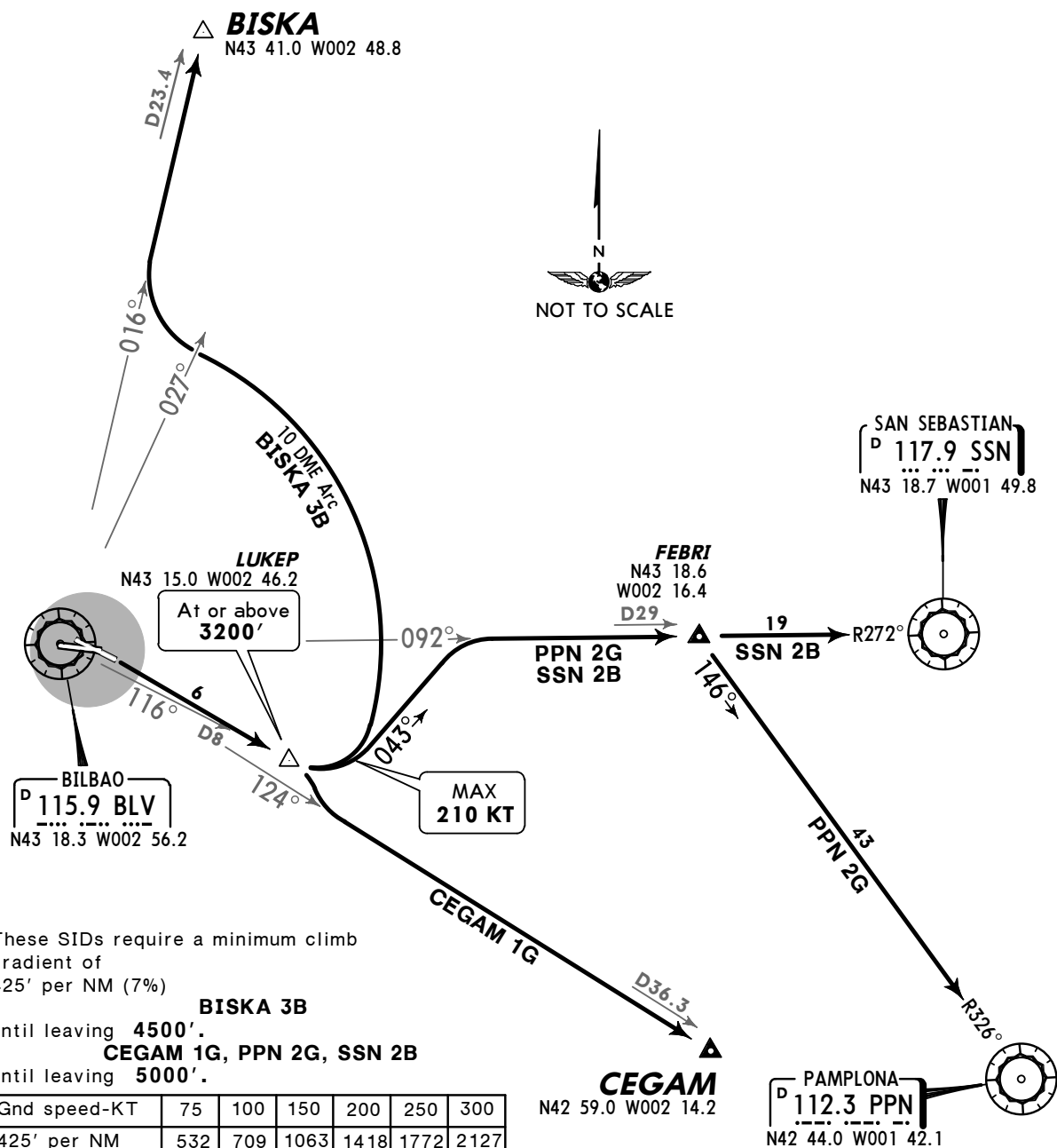
BILBAO, SPAIN
SID

Apt Elev
137'

Trans level: By ATC Trans alt: 6000'



BISKA THREE BRAVO (BISKA 3B) [BISK3B]
CEGAM ONE GOLF (CEGAM 1G) [CEGA1G]
PAMPLONA TWO GOLF (PPN 2G)
SAN SEBASTIAN TWO BRAVO (SSN 2B)
RWY 12 DEPARTURES
TO NORTHEAST, EAST & SOUTHEAST
~~SPEED~~ MAX 250 KT UNTIL LEAVING FL100



These SIDs require a minimum climb
gradient of
425' per NM (7%)

BISKA 3B
until leaving **4500'**.
CEGAM 1G, PPN 2G, SSN 2B
until leaving **5000'**.

Gnd speed-KT	75	100	150	200	250	300
425' per NM	532	709	1063	1418	1772	2127

CEGAM
N42 59.0 W002 14.2

PAMPLONA
D 112.3 PPN
N42 44.0 W001 42.1

Initial climb clearance **FL80** , except ATC clearance

SID	INITIAL CLIMB/ROUTING
BISKA 3B	Climb on runway heading to LUKEP, turn LEFT, along BLV 10 DME arc, when passing BLV R-027 turn RIGHT, intercept BLV R-016 to BISKA.
CEGAM 1G	Climb on runway heading to LUKEP, turn RIGHT, intercept BLV R-124 to CEGAM.
PPN 2G	Climb on runway heading to LUKEP, turn LEFT, 043° track, turn RIGHT, intercept BLV R-092 to FEBRI, turn RIGHT, intercept PPN R-326 inbound to PPN.
SSN 2B	Climb on runway heading to LUKEP, turn LEFT, 043° track, turn RIGHT, intercept BLV R-092 via FEBRI to SSN.

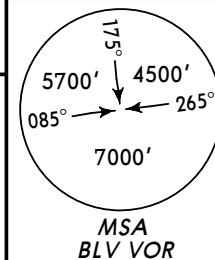
LEBB/BIO
BILBAO

JEPPESSEN
 28 MAR 08 **(10-3B)**

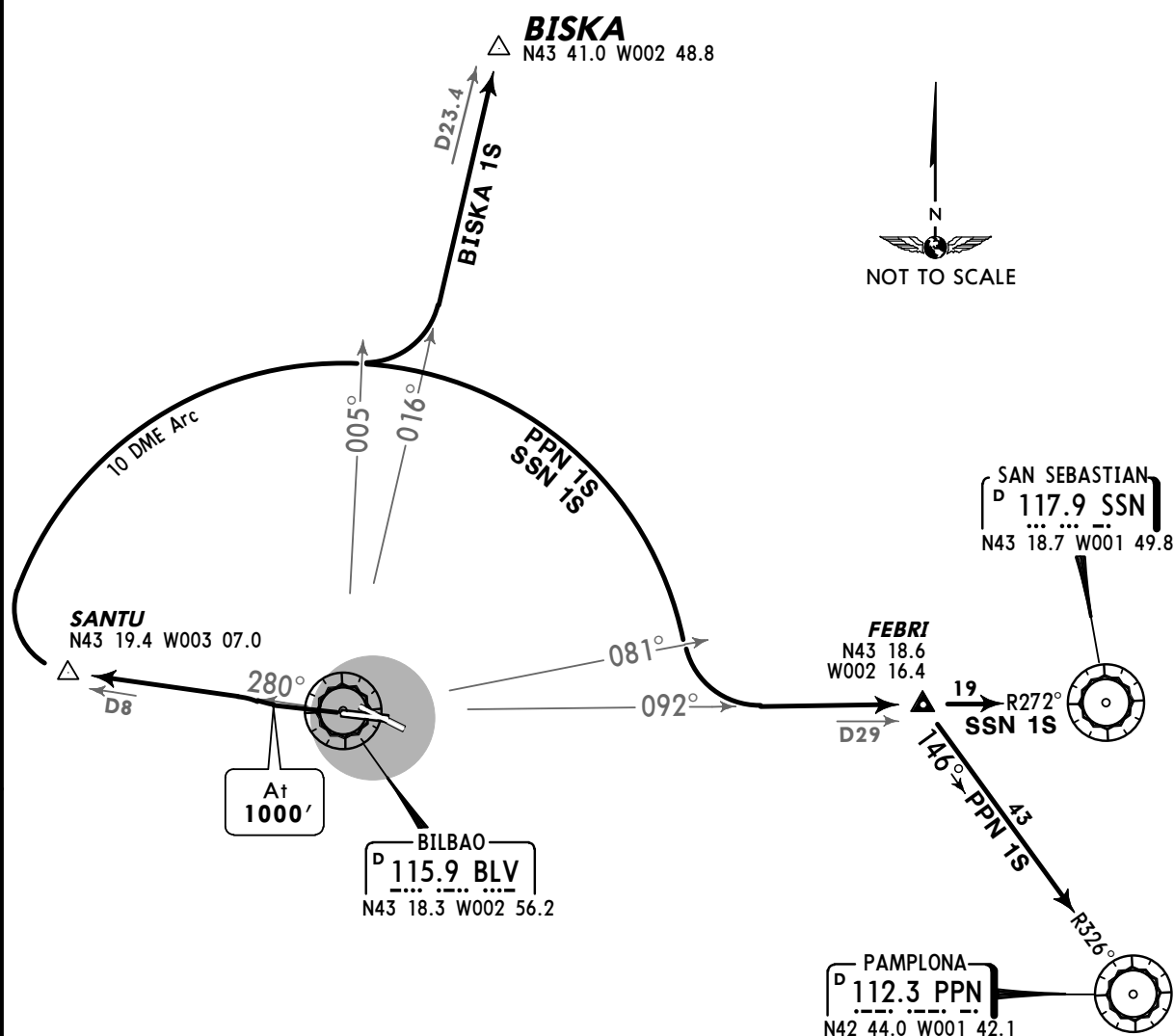
BILBAO, SPAIN
SID

Apt Elev
 137'

Trans level: By ATC Trans alt: 6000'



BISKA ONE SIERRA (BISKA 1S) [BISK1S]
PAMPLONA ONE SIERRA (PPN 1S)
SAN SEBASTIAN ONE SIERRA (SSN 1S)
RWY 28 DEPARTURES
 TO NORTHEAST, EAST & SOUTHEAST
~~SPEED~~ MAX 250 KT UNTIL LEAVING FL100



These SIDs require a minimum climb gradient
 of
 425' per NM (7%) until leaving **5000'**.

Gnd speed-KT	75	100	150	200	250	300
425' per NM	532	709	1063	1418	1772	2127

Initial climb clearance **FL80** , except ATC clearance

SID	INITIAL CLIMB/ROUTING
BISKA 1S	Climb on runway heading to 1000' , turn RIGHT, intercept BLV R-280 to SANTU, turn RIGHT, along BLV 10 DME arc, when passing BLV R-005 turn LEFT, intercept BLV R-016 to BISKA.
PPN 1S	Climb on runway heading to 1000' , turn RIGHT, intercept BLV R-280 to SANTU, turn RIGHT, along BLV 10 DME arc, when passing BLV R-081 turn LEFT, intercept BLV R-092 to FEBRI, turn RIGHT, intercept PPN R-326 inbound to PPN.
SSN 1S	Climb on runway heading to 1000' , turn RIGHT, intercept BLV R-280 to SANTU, turn RIGHT, along BLV 10 DME arc, when passing BLV R-081 turn LEFT, intercept BLV R-092 via FEBRI to SSN.

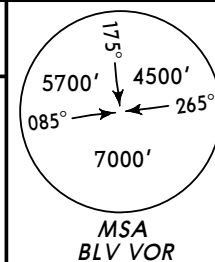
LEBB/BIO
BILBAO

JEPPESSEN
28 MAR 08 **(10-3C)**

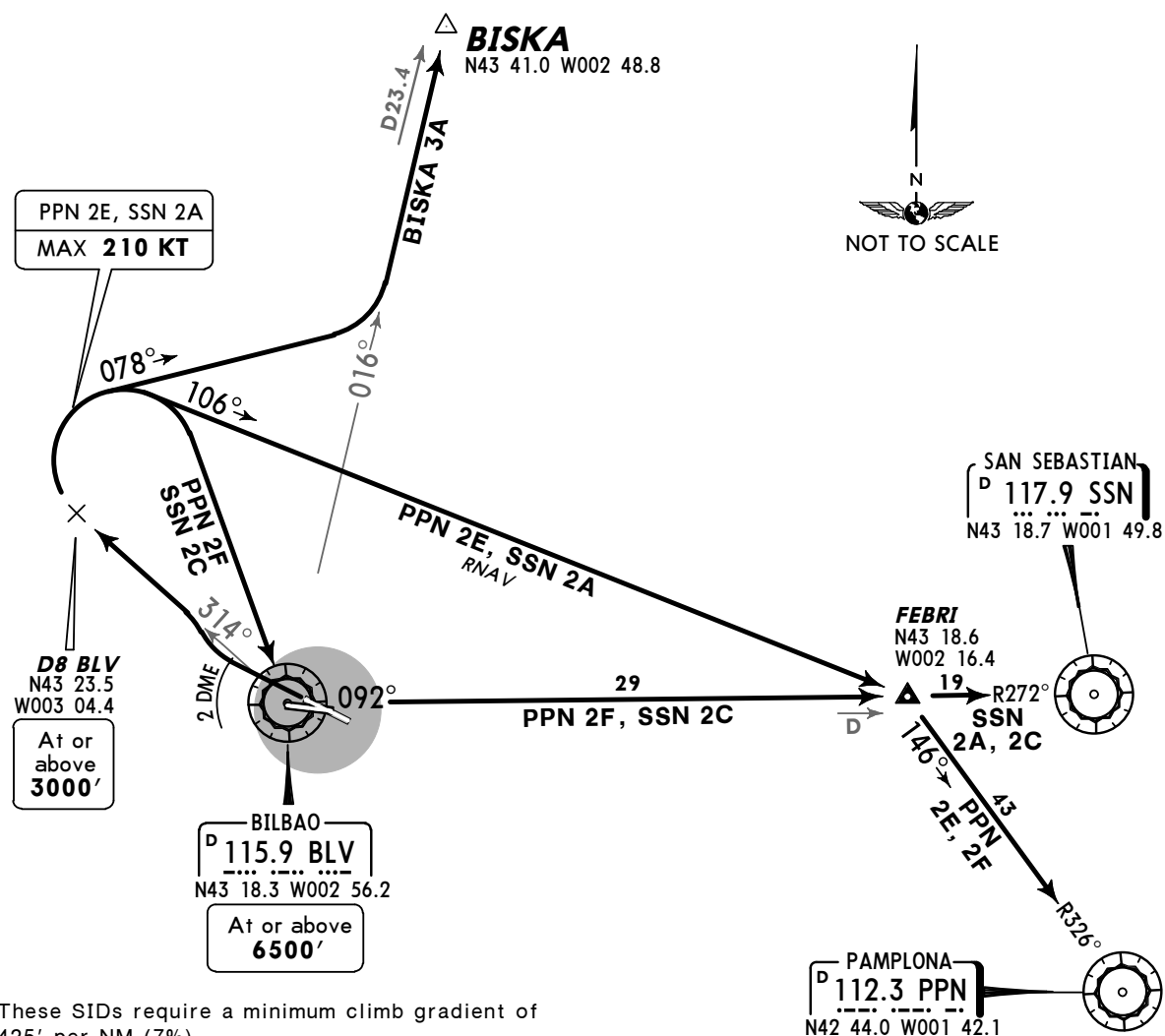
BILBAO, SPAIN
SID

Apt Elev
137'

Trans level: By ATC Trans alt: 6000'



BISKA THREE ALFA (BISKA 3A) [BISK3A]
PAMPLONA TWO ECHO (PPN 2E)
PAMPLONA TWO FOXTROT (PPN 2F)
SAN SEBASTIAN TWO ALFA (SSN 2A)
SAN SEBASTIAN TWO CHARLIE (SSN 2C)
RWY 30 DEPARTURES
TO NORTHEAST, EAST & SOUTHEAST
~~SPEED~~ MAX 250 KT UNTIL LEAVING FL100



These SIDs require a minimum climb gradient of 425' per NM (7%)

BISKA 3A
until leaving **5000'**.
PPN 2E, 2F, SSN 2A, 2C
until leaving **4000'**.

Gnd speed-KT	75	100	150	200	250	300
425' per NM	532	709	1063	1418	1772	2127

Initial climb clearance **FL80** , except ATC clearance

INITIAL CLIMB

Climb on runway heading to BLV 2 DME, turn RIGHT, intercept BLV R-314 to D8 BLV.

SID	ROUTING
BISKA 3A	At D8 BLV turn RIGHT, 078° track, intercept BLV R-016 to BISKA.
PPN 2E RNAV	At D8 BLV turn RIGHT, 106° track to FEBRI, turn RIGHT, intercept PPN R-326 inbound to PPN.
PPN 2F	At D8 BLV turn RIGHT to BLV, BLV R-092 to FEBRI, turn RIGHT, intercept PPN R-326 inbound to PPN.
SSN 2A RNAV	At D8 BLV turn RIGHT, 106° track to FEBRI, turn LEFT, intercept BLV R-092 to SSN.
SSN 2C	At D8 BLV turn RIGHT to BLV, BLV R-092 via FEBRI to SSN.

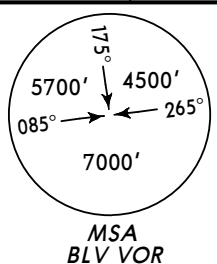
LEBB/BIO
BILBAO

JEPPESSEN
10 APR 09 (10-3D)

BILBAO, SPAIN

Apt Elev
137'

Trans level: By ATC Trans alt: 6000'

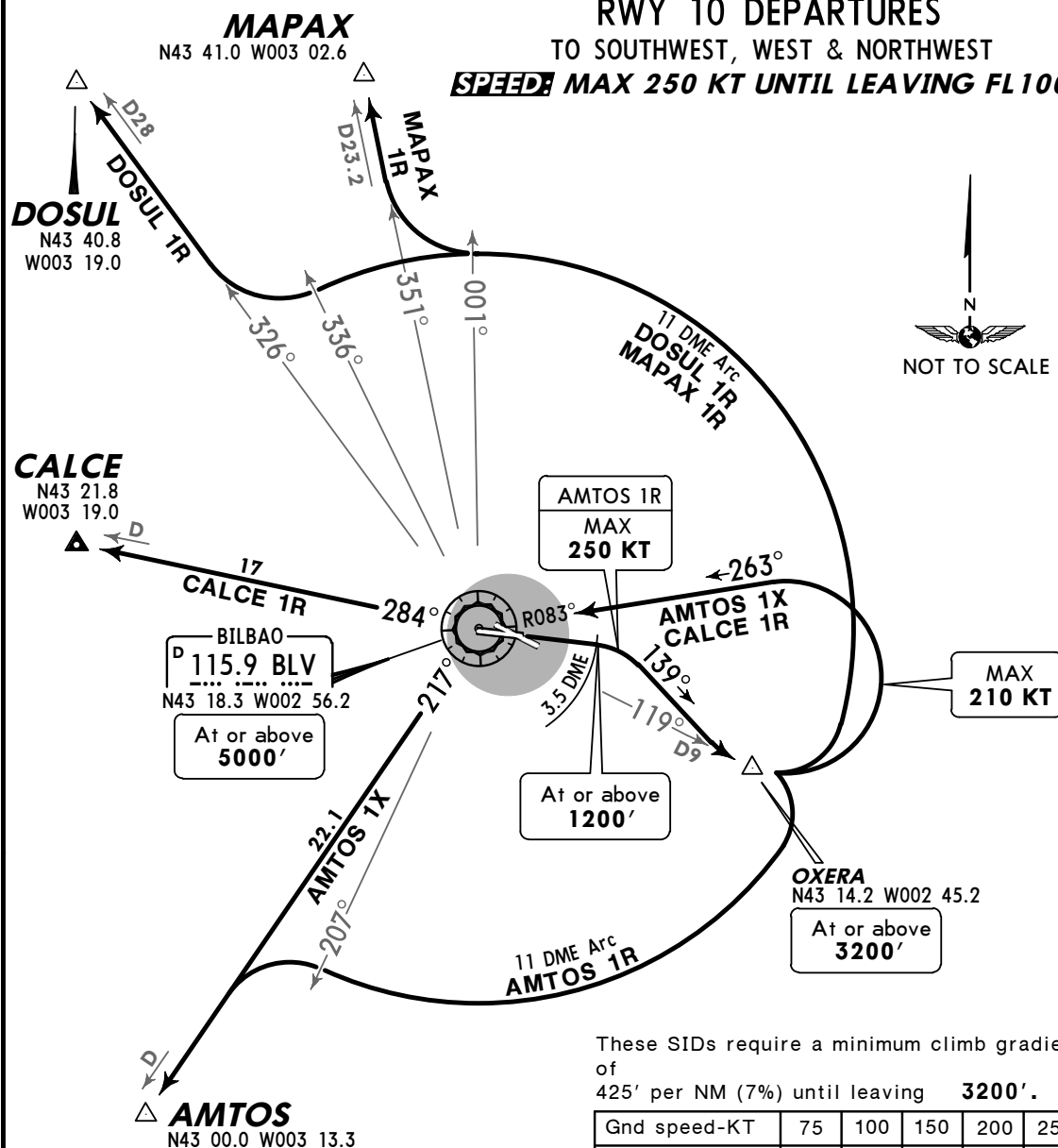


AMTOS ONE ROMEO (AMTOS 1R) [AMTO1R]
 AMTOS ONE X-RAY (AMTOS 1X) [AMTO1X]
 CALCE ONE ROMEO (CALCE 1R) [CALC1R]
 DOSUL ONE ROMEO (DOSUL 1R) [DOSU1R]
 MAPAX ONE ROMEO (MAPAX 1R) [MAPA1R]

RWY 10 DEPARTURES

TO SOUTHWEST, WEST & NORTHWEST

SPEED: MAX 250 KT UNTIL LEAVING FL100



These SIDs require a minimum climb gradient of 425' per NM (7%) until leaving **3200'**.

Gnd speed-KT	75	100	150	200	250	300
425' per NM	532	709	1063	1418	1772	2127

Initial climb clearance **FL80** , except ATC clearance

INITIAL CLIMB

Climb on runway heading to BLV 3.5 DME, turn RIGHT, 139° track, intercept BLV R-119 to OXERA.

SID	ROUTING
AMTOS 1R	At OXERA turn RIGHT, along BLV 11 DME arc, when passing BLV R-207 turn LEFT, intercept BLV R-217 to AMTOS.
AMTOS 1X	At OXERA turn LEFT, intercept BLV R-083 inbound to BLV, BLV R-217 to AMTOS.
CALCE 1R	At OXERA turn LEFT, intercept BLV R-083 inbound to BLV, BLV R-284 to CALCE.
DOSUL 1R	At OXERA turn LEFT, along BLV 11 DME arc, when passing BLV R-336 turn RIGHT, intercept BLV R-326 to DOSUL.
MAPAX 1R	At OXERA turn LEFT, along BLV 11 DME arc, when passing BLV R-001 turn RIGHT, intercept BLV R-351 to MAPAX.

CHANGES: Crossing at AMTOS withdrawn; initial climb clearance.

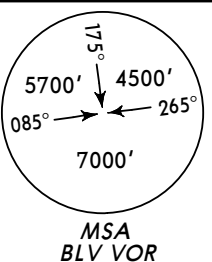
© JEPPESEN, 2005, 2009. ALL RIGHTS RESERVED.

LEBB/BIO
BILBAO

JEPPESSEN
10 APR 09 **10-3E**

BILBAO, SPAIN
SID

Apt Elev
137' Trans level: By ATC Trans alt: 6000'

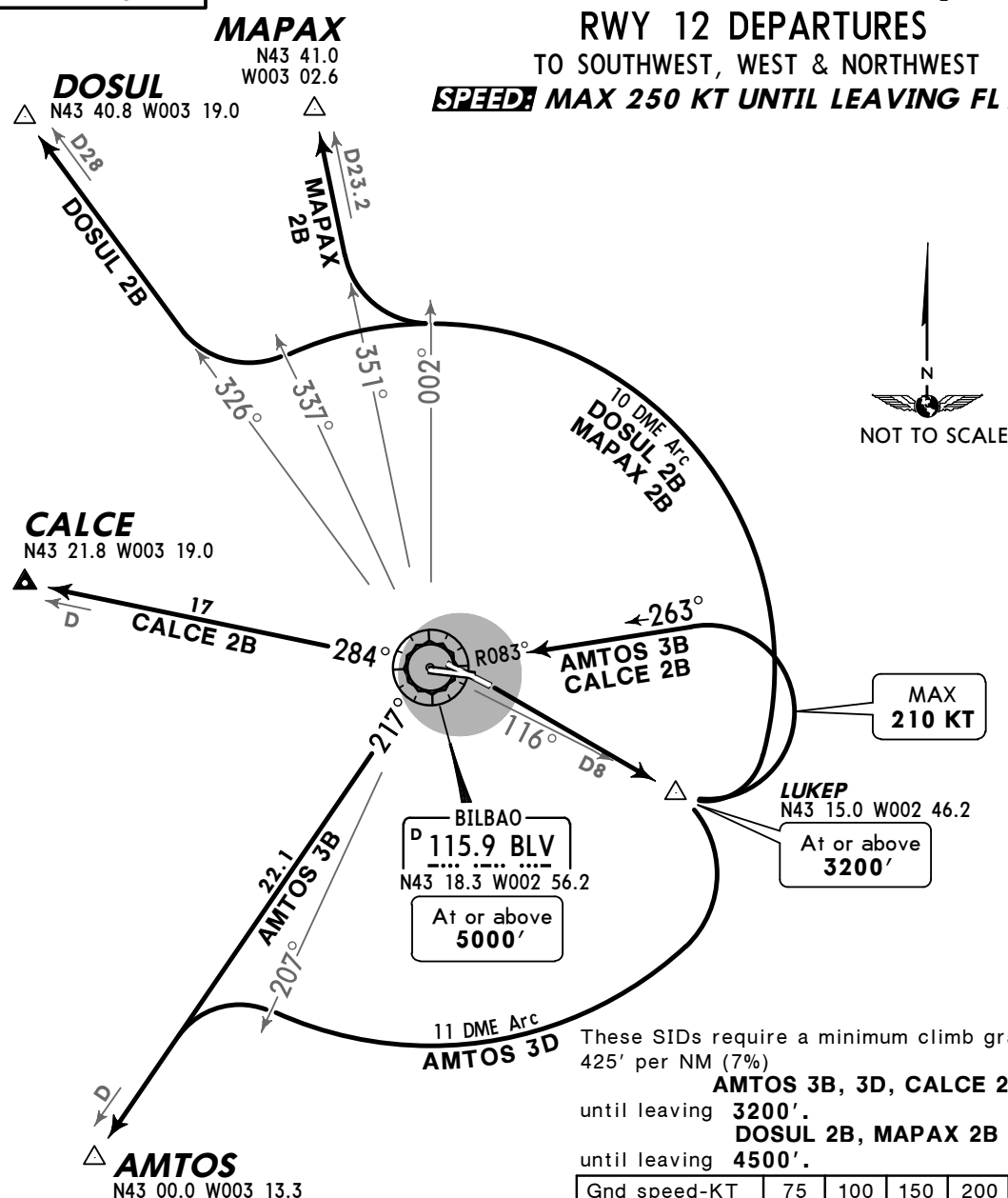


AMTOS THREE BRAVO (AMTOS 3B) [AMTO3B]
AMTOS THREE DELTA (AMTOS 3D) [AMTO3D]
CALCE TWO BRAVO (CALCE 2B) [CALC2B]
DOSUL TWO BRAVO (DOSUL 2B) [DOSU2B]
MAPAX TWO BRAVO (MAPAX 2B) [MAPA2B]

RWY 12 DEPARTURES

TO SOUTHWEST, WEST & NORTHWEST

~~SPEED~~ MAX 250 KT UNTIL LEAVING FL100



Initial climb clearance FL80 , except ATC clearance

SID	INITIAL CLIMB/ROUTING
AMTOS 3B	Climb on runway heading to LUKEP, turn LEFT, intercept BLV R-083 inbound to BLV, BLV R-217 to AMTOS.
AMTOS 3D	Climb on runway heading to LUKEP, turn RIGHT, along BLV 11 DME arc, when passing BLV R-207 turn LEFT, intercept BLV R-217 to AMTOS.
CALCE 2B	Climb on runway heading to LUKEP, turn LEFT, intercept BLV R-083 inbound to BLV, BLV R-284 to CALCE.
DOSUL 2B	Climb on runway heading to LUKEP, turn LEFT, along BLV 10 DME arc, when passing BLV R-337 turn RIGHT, intercept BLV R-326 to DOSUL.
MAPAX 2B	Climb on runway heading to LUKEP, turn LEFT, along BLV 10 DME arc, when passing BLV R-002 turn RIGHT, intercept BLV R-351 to MAPAX.

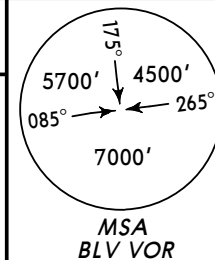
LEBB/BIO
BILBAO

JEPPESEN
10 APR 09 **10-3F**

BILBAO, SPAIN
SID

Apt Elev
137'

Trans level: By ATC Trans alt: 6000'

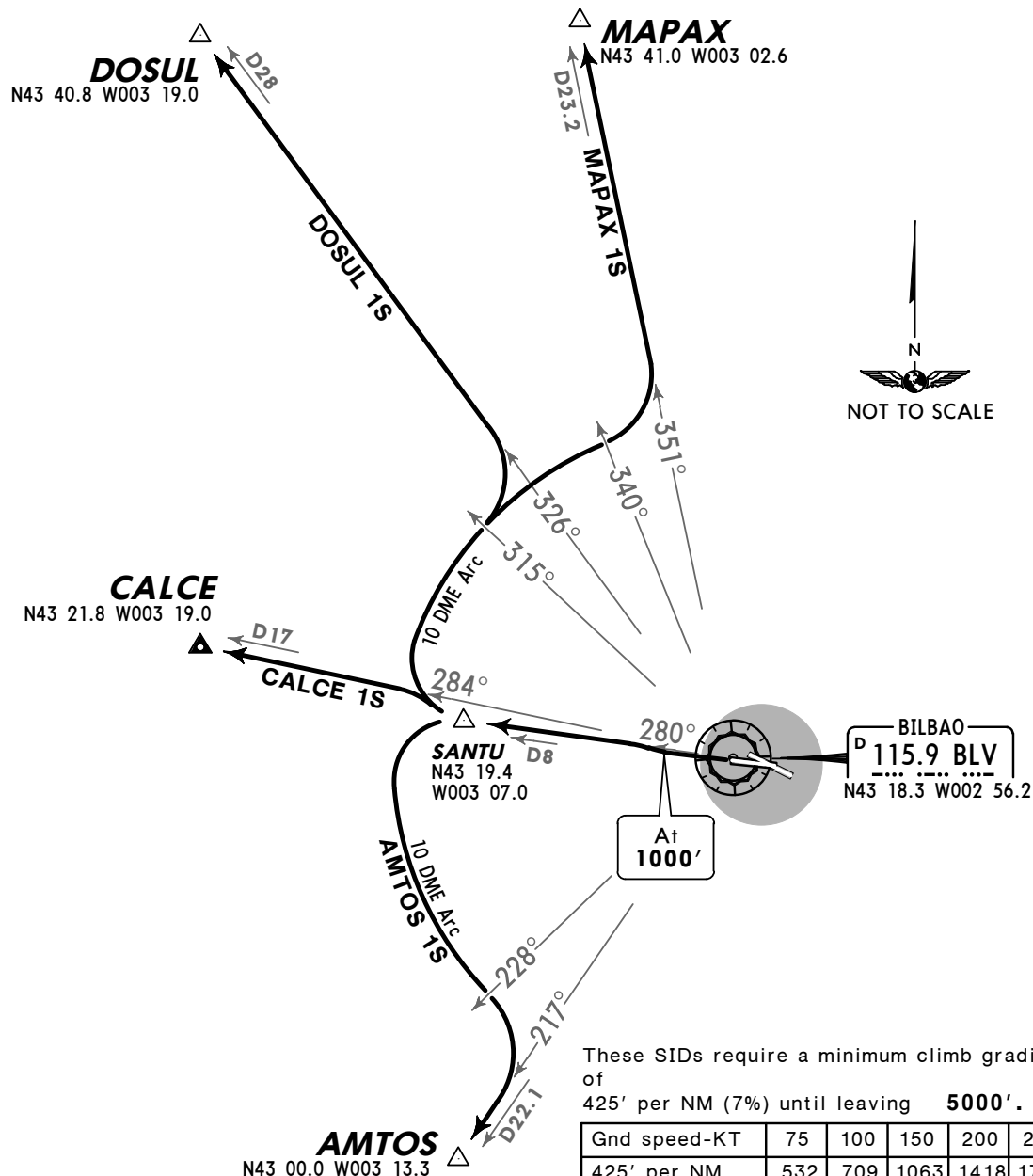


AMTOS ONE SIERRA (AMTOS 1S) [AMTO1S]
CALCE ONE SIERRA (CALCE 1S) [CALC1S]
DOSUL ONE SIERRA (DOSUL 1S) [DOSU1S]
MAPAX ONE SIERRA (MAPAX 1S) [MAPA1S]

RWY 28 DEPARTURES

TO SOUTHWEST, WEST & NORTHWEST

~~SPEED~~ MAX 250 KT UNTIL LEAVING FL100



These SIDs require a minimum climb gradient of 425' per NM (7%) until leaving **5000'**.

Gnd speed-KT	75	100	150	200	250	300
425' per NM	532	709	1063	1418	1772	2127

Initial climb clearance **FL80** , except ATC clearance

INITIAL CLIMB

Climb on runway heading to **1000'**, turn RIGHT, intercept BLV R-280 to SANTU.

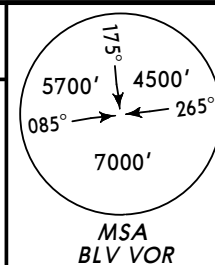
SID	ROUTING
AMTOS 1S	At SANTU turn LEFT, along BLV 10 DME arc, when passing BLV R-228 turn RIGHT, intercept BLV R-217 to AMTOS.
CALCE 1S	At SANTU turn RIGHT, intercept BLV R-284 to CALCE.
DOSUL 1S	At SANTU turn RIGHT, along BLV 10 DME arc, when passing BLV R-315 turn LEFT, intercept BLV R-326 to DOSUL.
MAPAX 1S	At SANTU turn RIGHT, along BLV 10 DME arc, when passing BLV R-340 turn LEFT, intercept BLV R-351 to MAPAX.

LEBB/BIO
BILBAO

JEPPESEN
10 APR 09 **(10-3G)**

BILBAO, SPAIN
SID

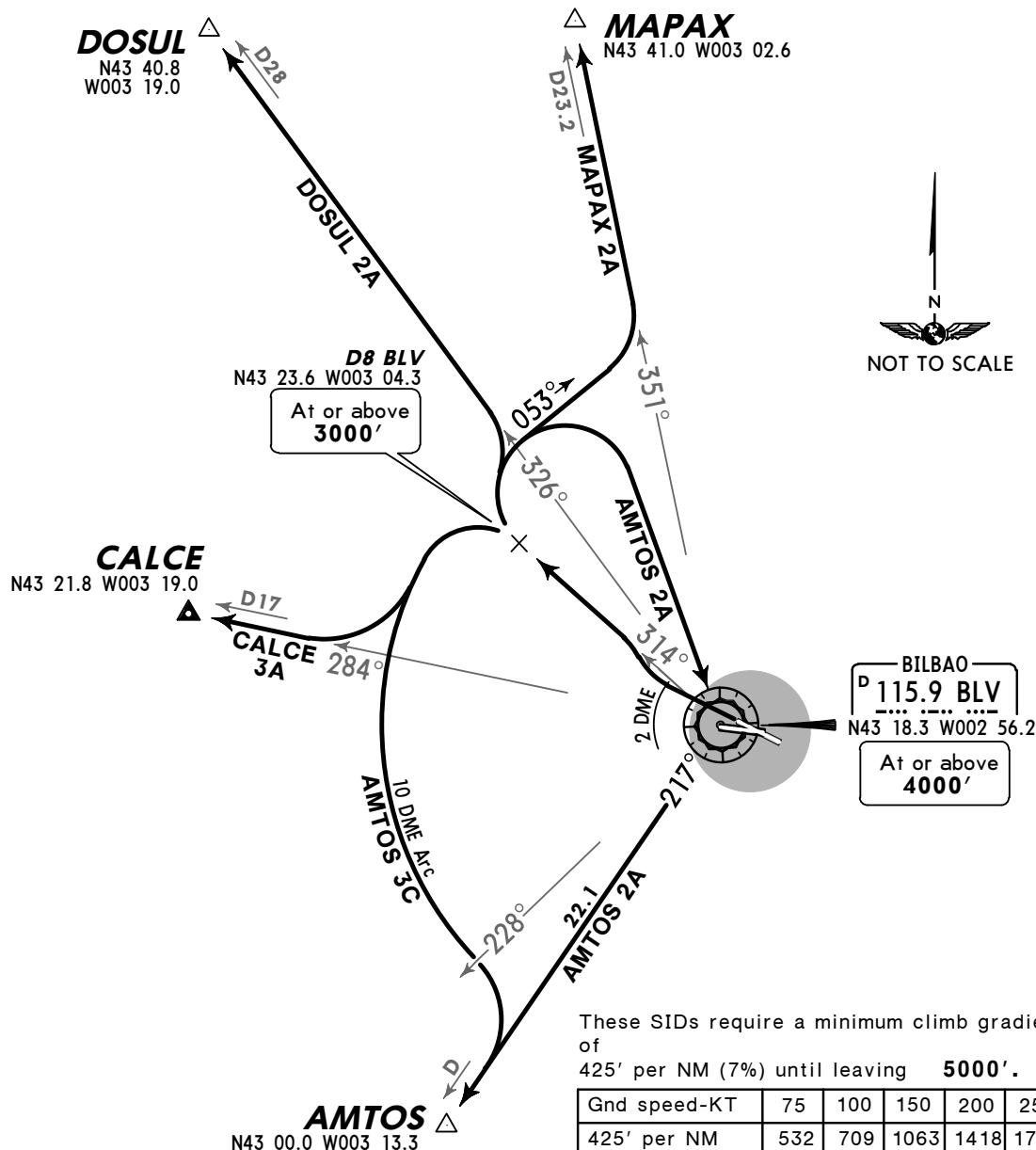
Apt Elev
137' Trans level: By ATC Trans alt: 6000'



AMTOS TWO ALFA (AMTOS 2A) [AMTO2A]
AMTOS THREE CHARLIE (AMTOS 3C) [AMTO3C]
CALCE THREE ALFA (CALCE 3A) [CALC3A]
DOSUL TWO ALFA (DOSUL 2A) [DOSU2A]
MAPAX TWO ALFA (MAPAX 2A) [MAPA2A]
RWY 30 DEPARTURES

TO SOUTHWEST, WEST & NORTHWEST

~~SPEED~~ MAX 250 KT UNTIL LEAVING FL100



Initial climb clearance **FL80** , except ATC clearance

INITIAL CLIMB

Climb on runway heading to BLV 2 DME, turn RIGHT, intercept BLV R-314 to D8 BLV.

SID	ROUTING
AMTOS 2A	At D8 BLV turn RIGHT to BLV, BLV R-217 to AMTOS.
AMTOS 3C	At D8 BLV turn LEFT, along BLV 10 DME arc, when passing BLV R-228 turn RIGHT, intercept BLV R-217 to AMTOS.
CALCE 3A	At D8 BLV turn LEFT, intercept BLV R-284 to CALCE.
DOSUL 2A	At D8 BLV turn RIGHT, intercept BLV R-326 to DOSUL.
MAPAX 2A	At D8 BLV turn RIGHT, 053° track, intercept BLV R-351 to MAPAX.

LEBB/BIO

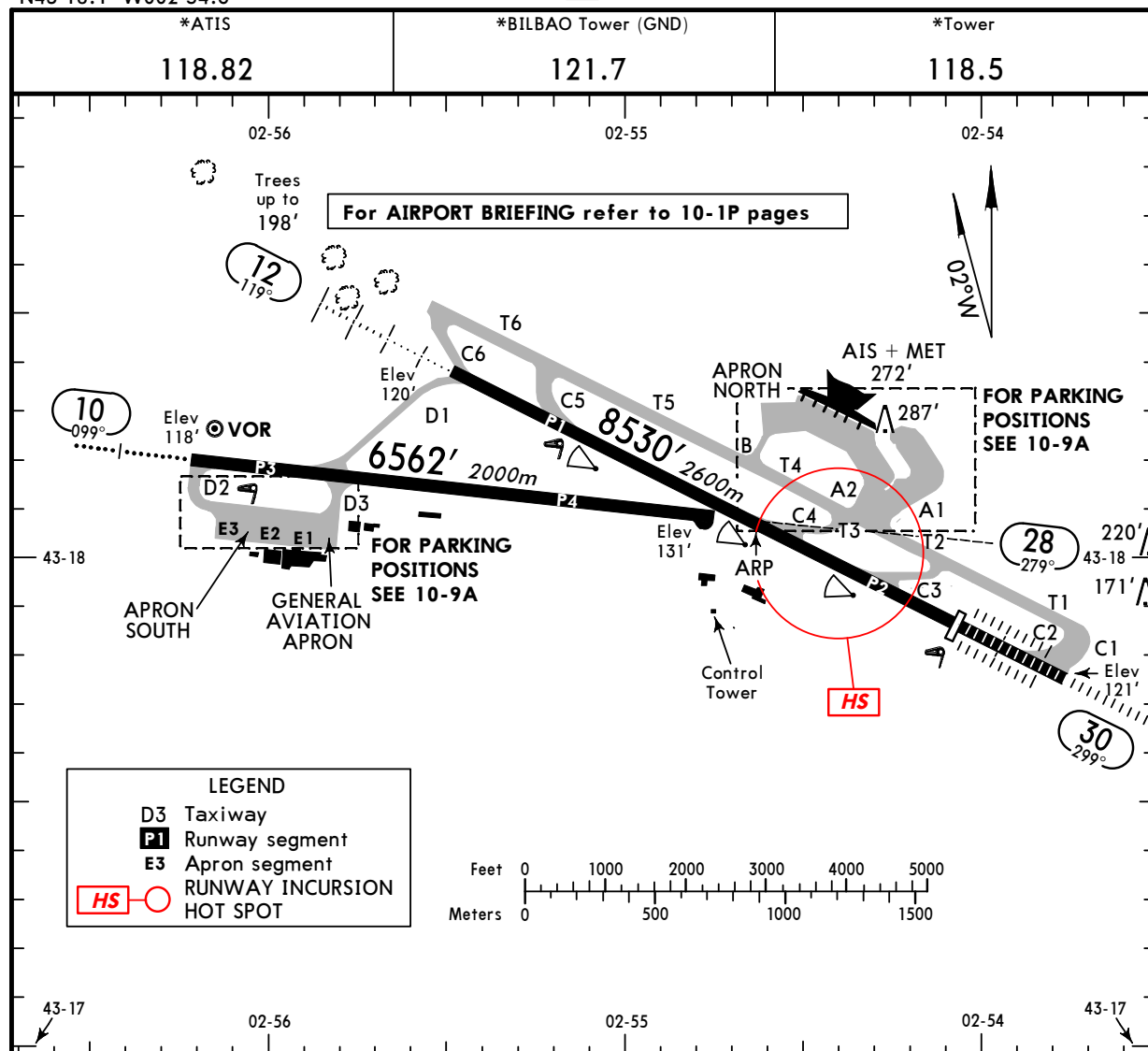
Apt Elev **137'**
N43 18.1 W002 54.6

JEPPesen

24 JUL 09 **(10-9)** Eff 30 Jul

BILBAO, SPAIN

BILBAO



ADDITIONAL RUNWAY INFORMATION					
RWY		USABLE LENGTHS		TAKE-OFF	WIDTH
		Threshold	Landing Beyond Glide Slope		
10	HIRL (60m) HIALS PAPI (3.6°)				148'
28	HIRL (60m) PAPI (3.4°)				45m
12	HIRL (50m) CL (15m) HIALS PAPI (3.1°) RVR		7558' 2304m		148'
30	HIRL (50m) CL (15m) HIALS-II TDZ PAPI (3.4°) ① RVR	7021' 2140m	6004' 1830m		45m

① HST-C5.

RUNWAY INCURSION HOT SPOT

(For information only, not to be construed as ATC instructions.)

HS CAUTION: Possible disorientation. Pay special attention to markings and ATC instructions.

Standard

TAKE-OFF ①

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

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

LEBB/BIO

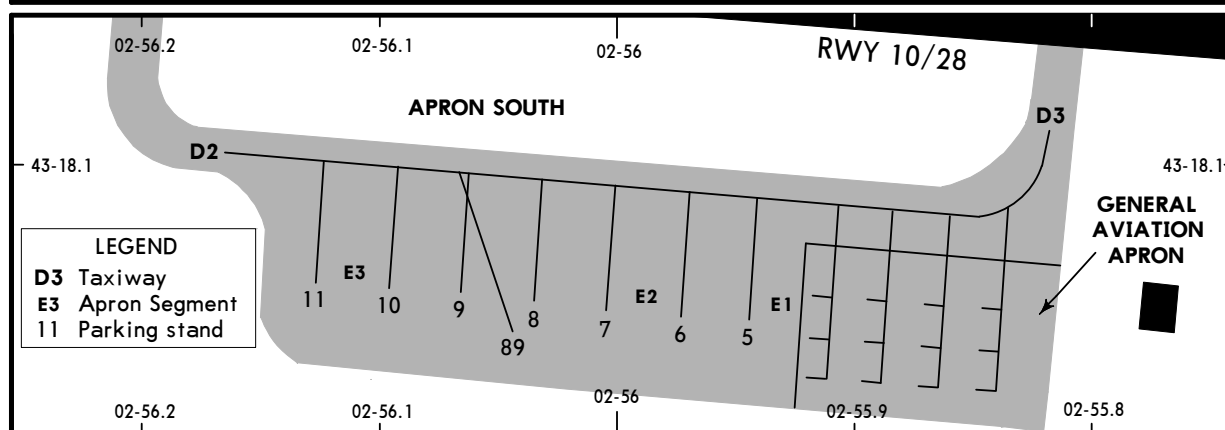
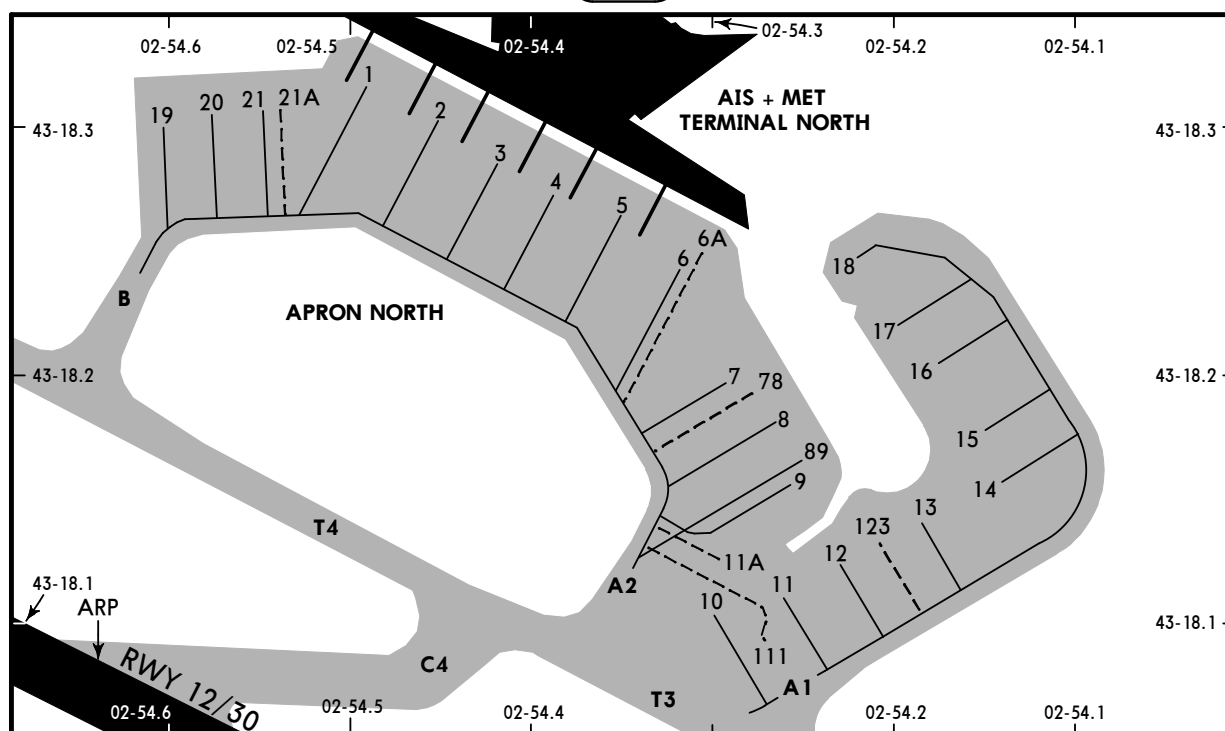
JEPPESEN

BILBAO, SPAIN

BILBAO

24 JUL 09 (10-9A)

Eff 30 Jul



INS COORDINATES

STAND No.	COORDINATES	STAND No.	COORDINATES
APRON NORTH		APRON SOUTH	
1, 2	N43 18.3 W002 54.5	111	N43 18.1 W002 54.3
3 thru 5	N43 18.3 W002 54.4	123	N43 18.1 W002 54.2
6 thru 9	N43 18.2 W002 54.3		
10 thru 11A	N43 18.1 W002 54.3		
12, 13	N43 18.1 W002 54.2		
14 thru 18	N43 18.2 W002 54.2	5	N43 18.0 W002 55.9
19, 20	N43 18.3 W002 54.6	6 thru 8	N43 18.0 W002 56.0
21, 21A	N43 18.3 W002 54.5	9 thru 11	N43 18.1 W002 56.1
78	N43 18.2 W002 54.3	89	N43 18.0 W002 56.0
89	N43 18.2 W002 54.2		

LEBB/BIO

JEPPesen
 24 JUL 09 **10-9X** **Eff 30 Jul**
JAA MINIMUMS
BILBAO, SPAIN
BILBAO

STRAIGHT-IN RWY		A	B	C	D
10	VOR	1200' (1082')	1200' (1082')	1200' (1082')	1200' (1082')
		R1500m	R1500m	R1800m	R2000m
	ALS out	R1500m	R1500m	R2000m	R2000m
12	ILS ①	594' (474')	606' (486')	614' (494')	624' (504')
		R900m	R900m	R900m	R900m
	ALS out	R1200m	R1200m	R1200m	R1200m
	ILS ②	1003' (883')	1015' (895')	1023' (903')	1033' (913')
		R900m	R900m	R900m	R900m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	1800' (1680')	1800' (1680')	1800' (1680')	1800' (1680')
		R1500m	R1500m	R1800m	R2000m
	ALS out	R1500m	R1500m	R2000m	R2000m
	VOR ①	980' (860')	980' (860')	980' (860')	980' (860')
		R1500m	R1500m	R1800m	R2000m
	ALS out	R1500m	R1500m	R2000m	R2000m
28	VOR ②	1430' (1310')	1430' (1310')	1430' (1310')	1430' (1310')
		R1500m	R1500m	R1800m	R2000m
	ALS out	R1500m	R1500m	R2000m	R2000m
	VOR	1500' (1369')	1500' (1369')	1500' (1369')	1500' (1369')
		R1500m	R1500m	R2000m	R2000m
	ILS	355' (226')	367' (238')	375' (246')	386' (257')
		R600m	R600m	R600m	R650m
	ALS out	R1000m	R1000m	R1000m	R1200m
	LOC	700' (571')	700' (571')	700' (571')	700' (571')
		R1000m	R1200m	R1200m	R1600m
	ALS out	R1500m	R1500m	R2000m	R2000m
	VOR	1750' (1621')	1750' (1621')	1750' (1621')	1750' (1621')
		R1200m	R1400m	R1400m	R1800m
	ALS out	R1500m	R1500m	R2000m	R2000m
① Missed apch climb gradient mim 5.0%. ② Missed apch climb gradient mim 2.5%.					

CIRCLE-TO-LAND	100 KT	135 KT	180 KT	205 KT
Not authorized	1710' (1573') ③④	1970' (1833')	2060' (1923')	2060' (1923')
South of airport	V1500m	V1600m	V2400m	V3600m

③ After ILS & LOC 12: 1800' (1663').

④ After VOR 30: 1750' (1613').

TAKE-OFF RWY 10, 12, 28, 30

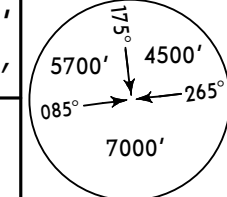
LVP must be in Force					
Approved Operators HIRL, CL & mult. RVR req	RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A					
B	125m	150m	200m	250m	400m
C					500m
D	150m	200m	250m	300m	

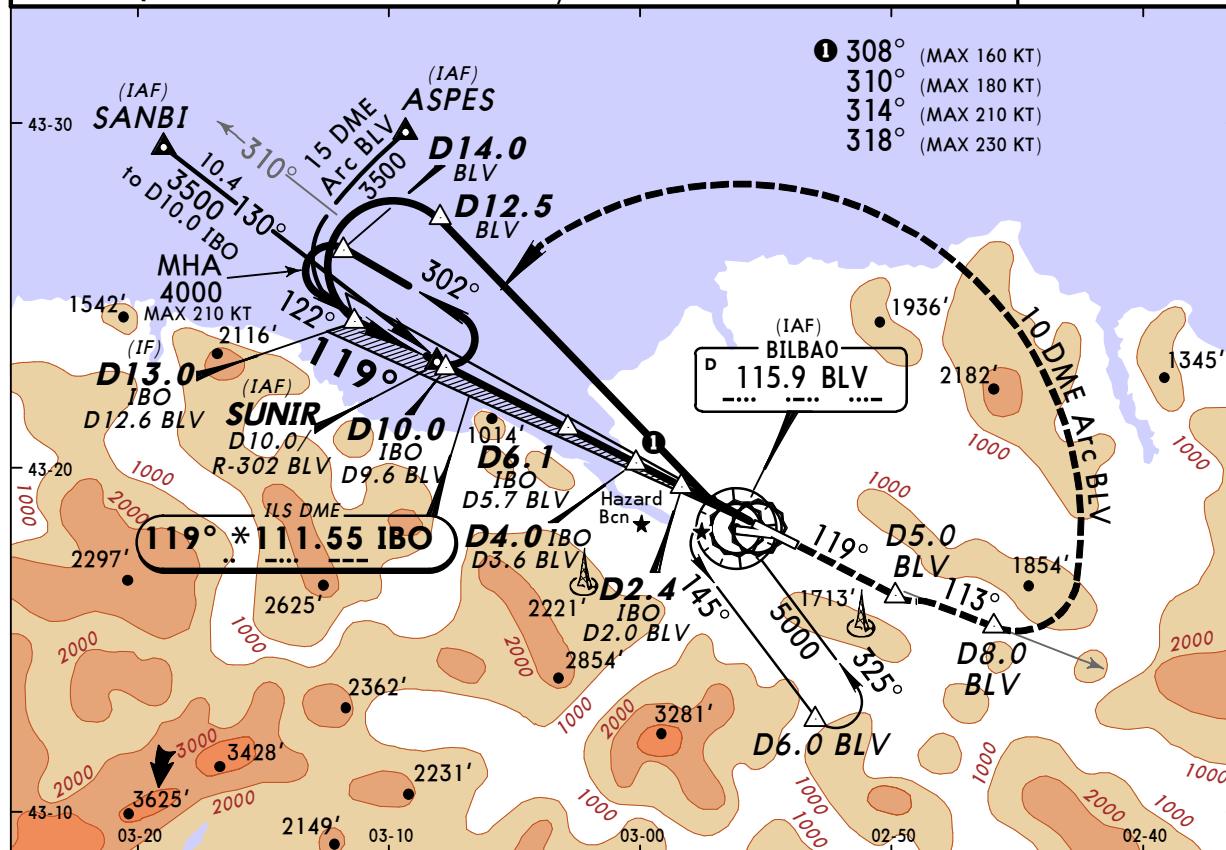
LEBB/BIO
BILBAO

JEPPesen
24 JUL 09 **(11-1)** **Eff 30 Jul**

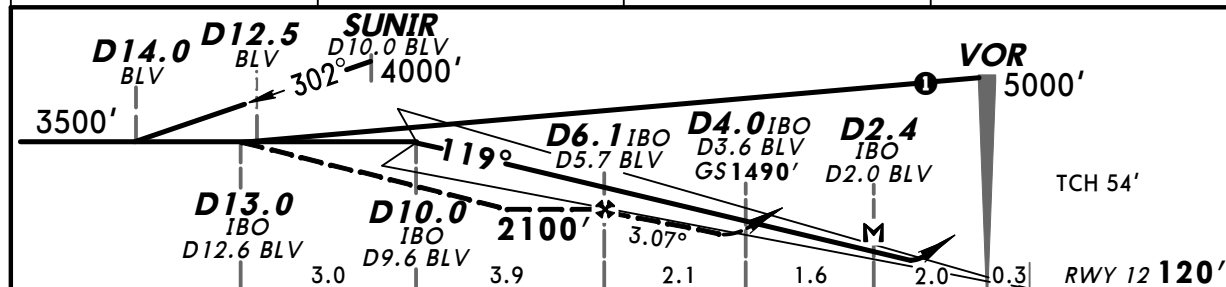
BILBAO, SPAIN
ILS or LOC Rwy 12

BRIEFING STRIP

*ATIS 118.82		*BILBAO Approach 120.7		*BILBAO Tower 118.5		*Ground 121.7	
LOC IBO *111.55	Final Apch Crs 119°	GS D4.0 IBO 1490' (1370')	ILS DA(H) Refer to Minimums	Apt Elev 137' RWY 120'	 MSA BLV VOR		
MISSED APCH: Climb to D5.0 BLV, then turn LEFT and follow R-113 to D8.0 BLV. Turn LEFT and follow 10 DME Arc BLV to SUNIR and join holding at 4000'.							
Alt Set: hPa Rwy Elev: 4 hPa Trans level: By ATC Trans alt: 6000'							
1. DME REQUIRED. 2. ILS DME reads zero at rwy 12 threshold.							



LOC (GS out)	IBO DME ALTITUDE	6.0 2130'	5.0 1800'
-----------------	---------------------	--------------	--------------



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI PAPI  D5.0 BLV
ILS GS	3.10°	389	500	556	667	778	
LOC Descent Angle	3.07°	380	489	543	652	760	
MAP at D2.4 IBO/D2.0 BLV							

Standard		STRAIGHT-IN LANDING RWY 12		LOC (GS out)		CIRCLE-TO-LAND	
DA(H) 1 5.0%		ILS 1 2.5%		DA(H) 2		Not authorized South of airport	
A: 594' (474') C: 614' (494')		C: 1023' (903')		DA(H) 1800' (1680')			
B: 606' (486') D: 624' (504')		D: 1033' (913')					
FULL/Limited	ALS out	FULL/Limited	ALS out		ALS out	Max Kts	MDA(H) VIS
A	RVR 1500m		RVR 1500m			100	1800' (1663') 5000m
B						135	1970' (1833') 5000m
C	RVR 1800m CMV 2300m				CMV 5000m	180	2060' (1923') 5000m
D	RVR 1900m CMV 2400m		CMV 2400m			205	

PANS OPS 4

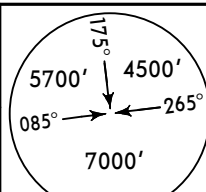
1 Missed apch climb gradient mim: 2 DA(H) A: 1003' (883'), B: 1015' (895').

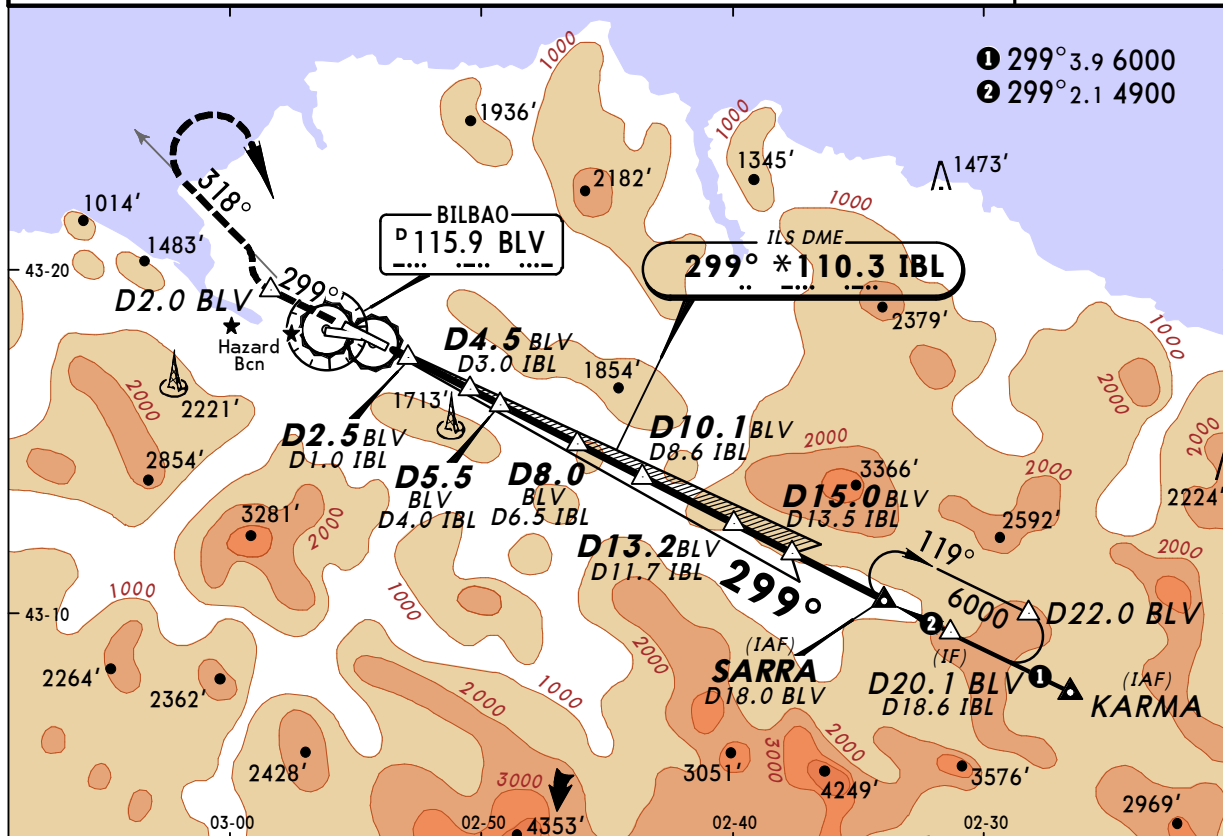
LEBB/BIO
BILBAO

JEPPesen
24 JUL 09 **11-2** **Eff 30 Jul**

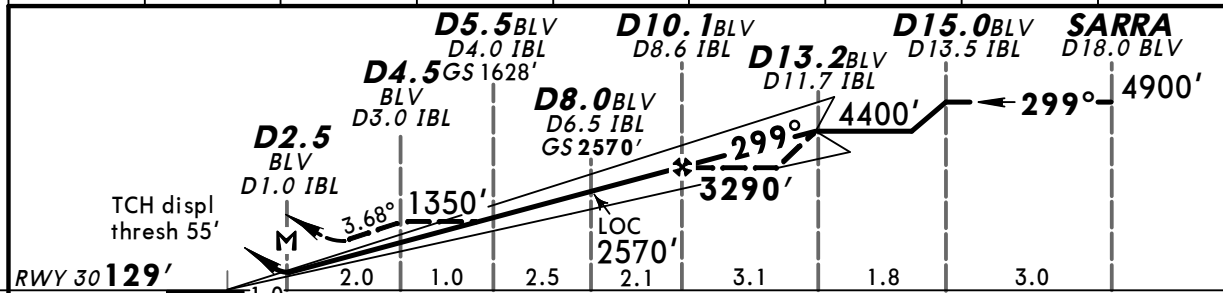
BILBAO, SPAIN
ILS or LOC Rwy 30

BRIEFING STRIP

*ATIS 118.82		*BILBAO Approach 120.7		*BILBAO Tower 118.5		*Ground 121.7	
LOC IBL *110.3	Final Apch Crs 299°	GS D8.0 BLV 2570' (2441')	ILS DA(H) Refer to Minimums	Apt Elev 137' RWY 129'			
MISSED APCH: Climb direct to D2.0 BLV after VOR, then turn RIGHT and follow R-318 BLV to 4000'. Turn RIGHT to VOR, then direct to SARRA climbing to 6000' and hold.							
Alt Set: hPa Rwy Elev: 5 hPa Trans level: By ATC Trans alt: 6000'							
1. DME REQUIRED. 2. ILS DME reads zero at rwy 30 displaced thresh.						MSA BLV VOR	



LOC (GS out)	IBL DME	2.0	3.0	4.0	5.0	6.0	7.0	8.0
	ALTITUDE	960'	1350'	1650'	2020'	2390'	2760'	3120'



Gnd speed-Kts	70	90	100	120	140	160		D2.0 BLV after VOR ↑
ILS GS	3.40°	426	548	609	731	853		
LOC Desc Angle FAF-D4.0 IBL	3.46°	429	551	612	735	857		
LOC Desc Angle after D3.0 IBL	3.68°	456	586	651	782	912		

Standard				CIRCLE-TO-LAND Not authorized South of airport	
ILS STRAIGHT-IN LANDING RWY 30					
A: 355' (226') C: 375' (246')					
B: 367' (238') D: 386' (257')					
DA(H) 700' (571')					
FULL	Limited	ALS out	ALS out	Max Kts	MDA(H) VIS
A		RVR 1200m		100	1710' (1573') 2600m
B	RVR 550m			135	1970' (1833') 2600m
C	RVR 750m		RVR 1900m	180	2060' (1923') 2600m
D	RVR 600m	RVR 1300m	CMV 2600m	205	2060' (1923') 3600m

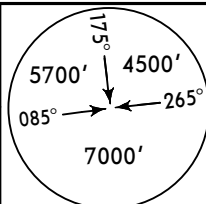
PANS OPS 4

LEBB/BIO
BILBAO

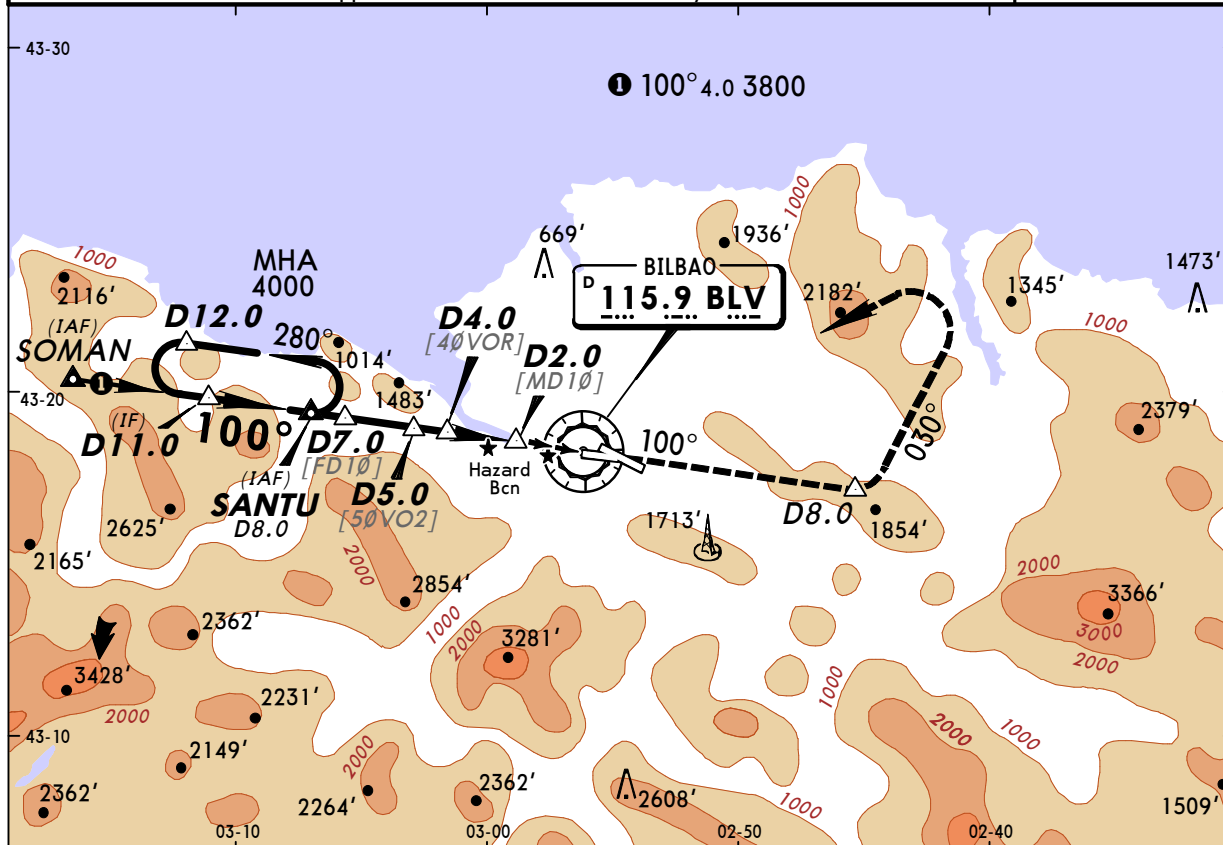
JEPPesen
24 JUL 09 **(13-1)** **Eff 30 Jul**

BILBAO, SPAIN
VOR Rwy 10

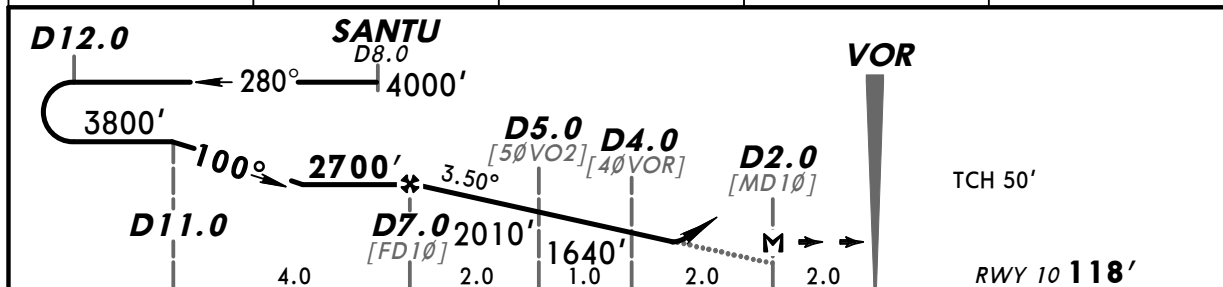
BRIEFING STRIP

*ATIS 118.82		*BILBAO Approach 120.7		*BILBAO Tower 118.5		*Ground 121.7	
VOR BLV 115.9	Final Apch Crs 100°	Minimum Alt D7.0 2700' (2582')	DA(H) 1200' (1082')	Apt Elev 137' RWY 118'			
MISSED APCH: Climb direct to VOR, follow R-100 to cross D8.0 at or above 2500'. Turn LEFT on 030° climbing to 3500'. Turn LEFT direct to VOR, then direct to SANTU climbing to 4000' and hold.							
Alt Set: hPa Rwy Elev: 4 hPa Trans level: By ATC Trans alt: 6000' 1. DME REQUIRED. 2. Final approach track offset 1° from rwy centerline.							

MSA BLV VOR



BLV DME	6.0	5.0	4.0	3.0
ALTITUDE	2380'	2010'	1640'	1270'



Gnd speed-Kts	70	90	100	120	140	160	HIALS REIL PAPI PAPI BLV 115.9
Descent Angle	3.50°	434	557	619	743	991	
MAP at D2.0							

Standard				CIRCLE-TO-LAND			
STRAIGHT-IN LANDING RWY 10				Not authorized South of airport			
DA(H) 1200' (1082')							
ALS out				Max Kts	MDA(H)	VIS	
A	RVR 1500m			100	1710' (1573')	1500m	
B				135	1970' (1833')	1600m	
C	CMV 2400m			180	2060' (1923')	2400m	
D				205	2060' (1923')	3600m	

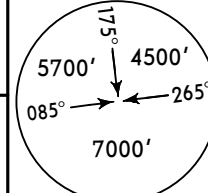
PANS OPS 4

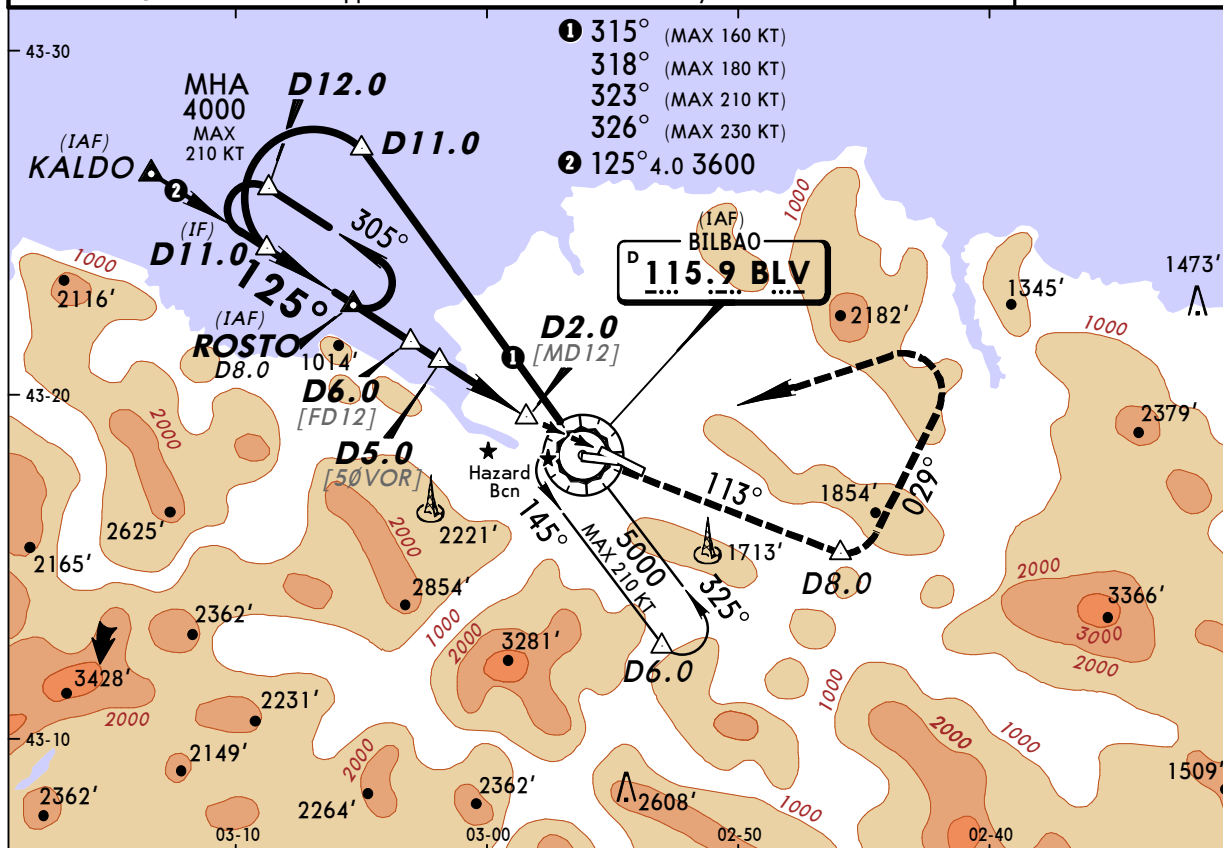
LEBB/BIO
BILBAO

JEPPESSEN
24 JUL 09 **(13-2)** **Eff 30 Jul**

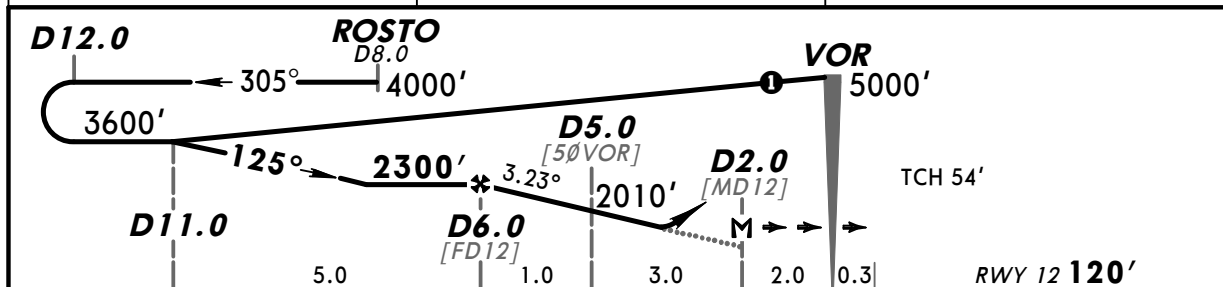
BILBAO, SPAIN
VOR Rwy 12

BRIEFING STRIP

*ATIS		*BILBAO Approach		*BILBAO Tower		*Ground	
118.82		120.7		118.5		121.7	
VOR BLV 115.9	Final Apch Crs 125°	Minimum Alt D6.0 2300' (2180')	DA(H) Refer to Minimums	Apt Elev 137' RWY 120'			
MISSED APCH: Climb direct to VOR, follow R-113 to D8.0, then turn LEFT on 029° climbing to 3500'. Turn LEFT to VOR, then direct to ROSTO climbing to 4000' and hold.							
Alt Set: hPa		Rwy Elev: 4 hPa		Trans level: By ATC			
1. DME REQUIRED.		2. Final approach track offset 6° from rwy centerline.		Trans alt: 6000'		MSA BLV VOR	



BLV DME	5.0	4.0
ALTITUDE	2010'	1670'



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI PAPI	BLV 115.9	D8.0 on 115.9	BLV 115.9
Descent Angle	3.23°	400	514	571	686	800				
MAP at D2.0										

Standard				STRAIGHT-IN LANDING RWY 12				CIRCLE-TO-LAND			
Missed apch climb gradient mim 5.0%				Missed apch climb gradient mim 2.5%				Not authorized South of airport			
DA(H) 980' (860')				DA(H) 1430' (1310')							
ALS out				ALS out							
A	RVR 1500m			CMV 5000m			Max Kts				
B							100	1710' (1573') 5000m			
C	CMV 3600m			CMV 4000m			135	1970' (1833') 5000m			
D							180	2060' (1923') 5000m			
							205				

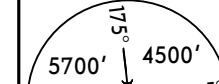
PANS OPS 4

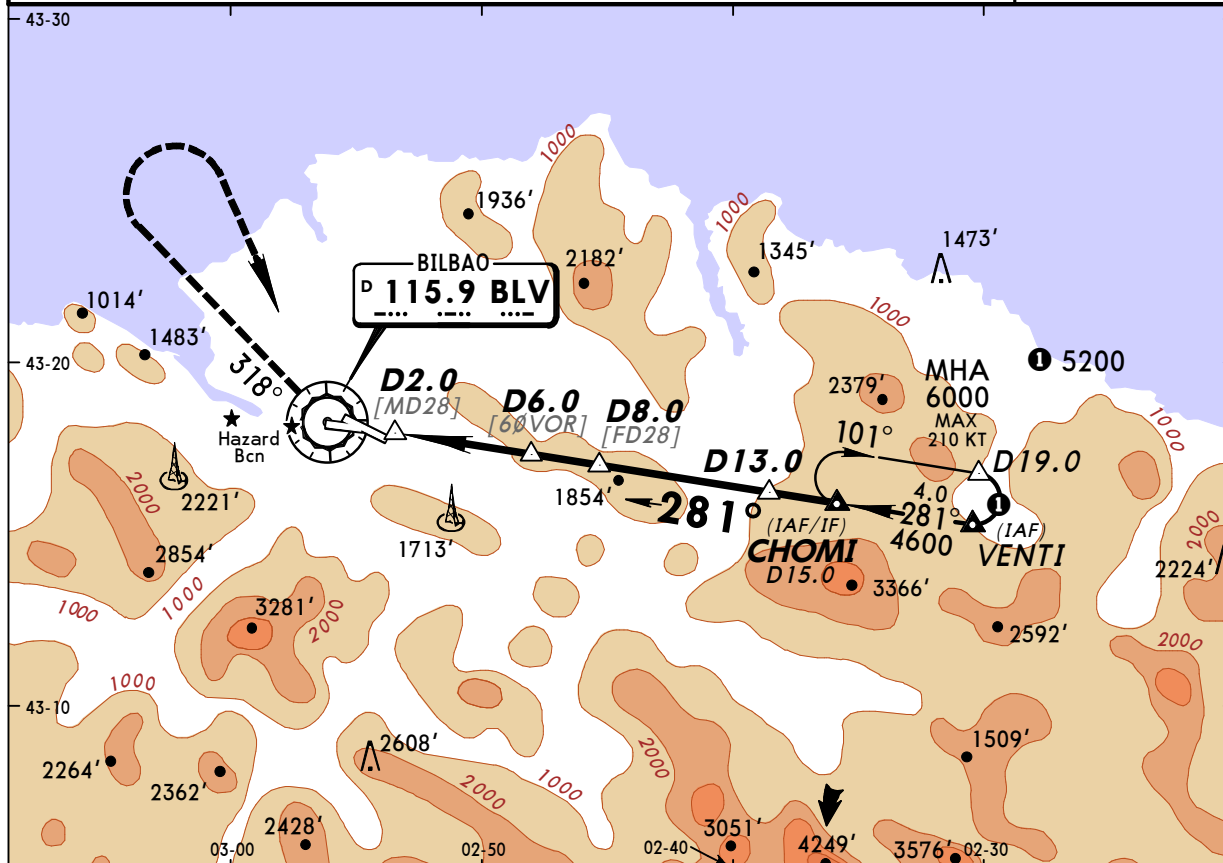
LEBB/BIO
BILBAO

JEPPesen
24 JUL 09 **(13-3)** **Eff 30 Jul**

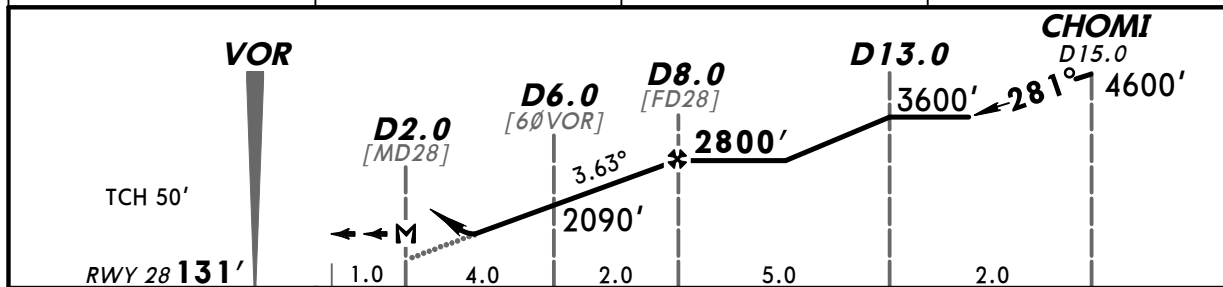
BILBAO, SPAIN
VOR Rwy 28

BRIEFING STRIP

*ATIS 118.82		*BILBAO Approach 120.7		*BILBAO Tower 118.5		*Ground 121.7	
VOR BLV 115.9	Final Apch Crs 281°	Minimum Alt D8.0 2800' (2669')	DA(H) 1500' (1369')	Apt Elev 137'	RWY 131'		
MISSED APCH: Climb direct to VOR, then follow R-318 until 4000'. Turn RIGHT to VOR, then direct to CHOMI climbing to 6000' and hold.						 MSA BLV VOR	
Alt Set: hPa Rwy Elev: 5 hPa Trans level: By ATC Trans alt: 6000' 1. DME REQUIRED. 2. Final approach track offset 2° from rwy centerline.							



BLV DME	5.0	6.0	7.0
ALTITUDE	1700'	2090'	2470'



Gnd speed-Kts	70	90	100	120	140	160		PAPI	BLV 115.9	4000'	BLV 115.9
Descent Angle	3.63°	450	578	642	771	899	1028				R-318
MAP at D2.0											

Standard		STRAIGHT-IN LANDING RWY 28		CIRCLE-TO-LAND	
				Not authorized South of airport	
		DA(H) 1500'(1369')		Max Kts	MDA(H) _____ VIS _____
A	CMV 5000m	100	1710'(1573')	5000m	
B		135	1970'(1833')	5000m	
C		180	2060'(1923') 5000m		
D		205			

PANS OPS 4

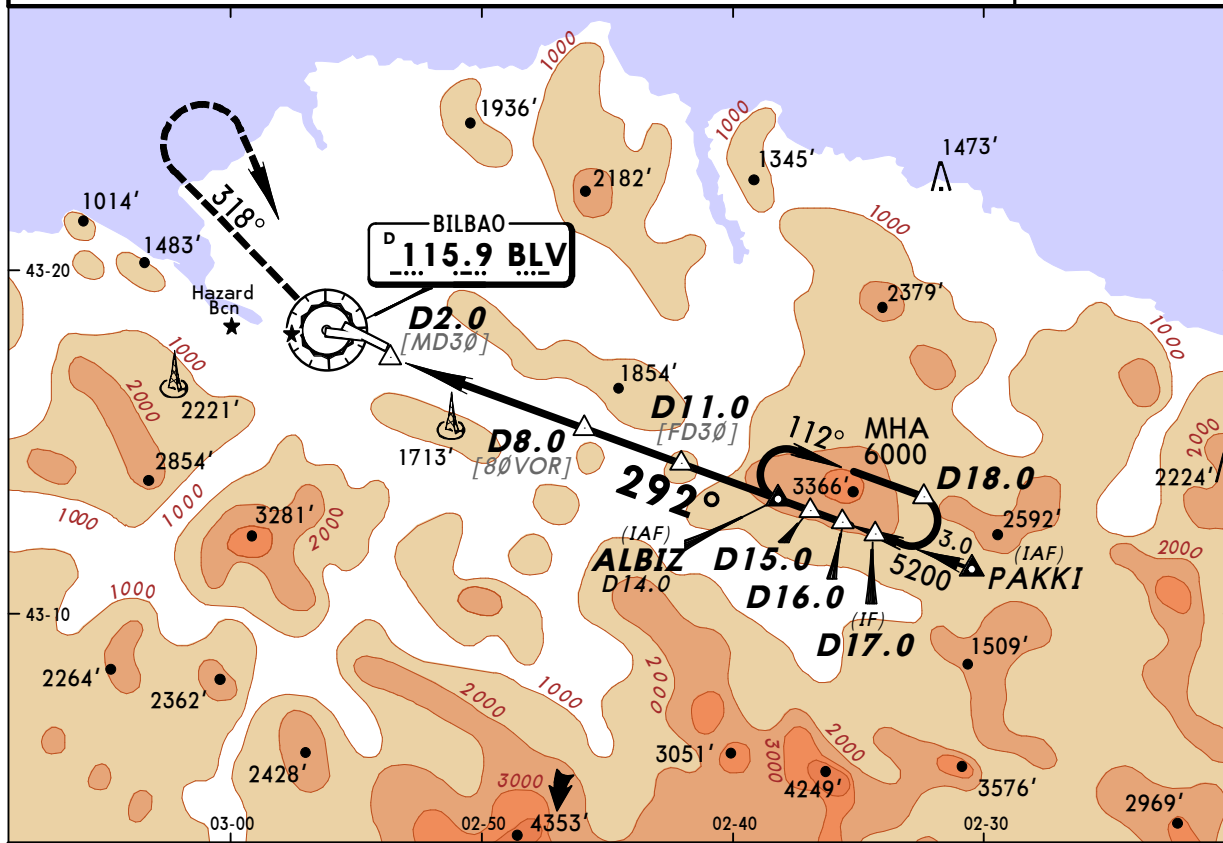
LEBB/BIO
BILBAO

JEPPesen
24 JUL 09 **(13-4)** **Eff 30 Jul**

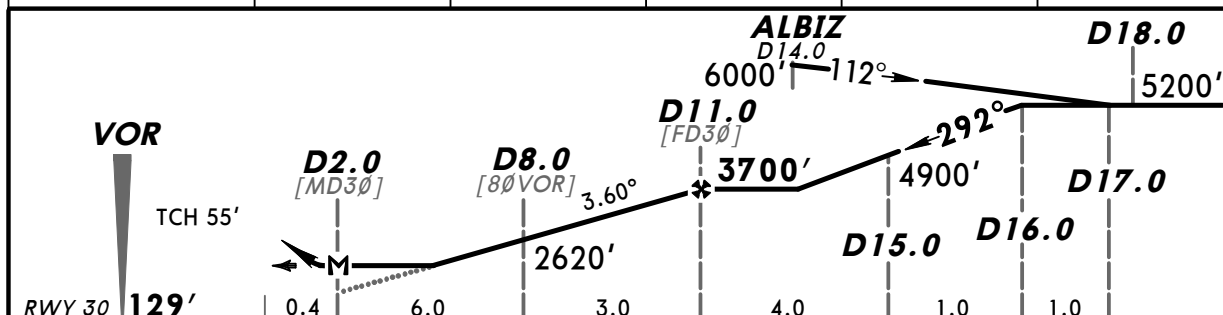
BILBAO, SPAIN
VOR Rwy 30

BRIEFING STRIP

*ATIS	*BILBAO Approach	*BILBAO Tower	*Ground
118.82	120.7	118.5	121.7
VOR BLV 115.9	Final Apch Crs 292°	Minimum Alt D11.0 3700' (3571')	DA(H) 1750' (1621')
		Apt Elev 137' RWY 129'	
MISSED APCH: Climb direct to VOR, then follow R-318 until 4000'. Turn RIGHT to VOR, then direct to ALBIZ climbing to 6000' and hold.			
Alt Set: hPa Rwy Elev: 5 hPa Trans level: By ATC Trans alt: 6000'			
1. DME REQUIRED. 2. Final approach track offset 7° from rwy centerline.			
MSA BLV VOR			



BLV DME	6.0	7.0	8.0	9.0	10.0
ALTITUDE	1860'	2240'	2620'	3000'	3380'



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle	3.60°	446	573	637	765	892
MAP at D2.0						

Standard				CIRCLE-TO-LAND			
STRAIGHT-IN LANDING RWY 30				Not authorized South of airport			
DA(H) 1750' (1621')							
ALS out							
CMV 5000m							
A				Max Kts	MDA(H)	VIS	
B				100	1750' (1613')	5000m	
C				135	1970' (1833')	5000m	
D				180	2060' (1923')	5000m	
				205			

PANS OPS 4