

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

| ACT | PROCEDURE IDENT | INDEX | REV DATE | EFF DATE |
|-----|-----------------|-------|----------|----------|
|-----|-----------------|-------|----------|----------|

**No revision activity since Disc 22-2010**

# **TERMINAL CHART NOTAMs**

## **Chart NOTAMs for Airport LEPP**

**Type:** Terminal

**Effectivity:** Temporary

**Begin Date:** Immediately

**End Date:** Until Further Notice

(10-3G) Amend text of NOLSA and TURPO 1C to read "...passing PPN R-315 turn LEFT...".

**General Info**

Pamplona, ESP

N 42° 46.2' W 01° 38.8' Mag Var: 2.7°W

Elevation: 1505'

Public, IFR, Control Tower, Customs availble on a restrcted basis,

Landing Fee

Fuel: 100LL, Jet, Jet A-1

Time Zone Info: GMT+1:00 uses DST

**Runway Info**

Runway 15-33 7890' x 148' asphalt

Runway 15 (153.0°M) TDZE 1468'

Lights: Edge, ALS, Centerline, REIL

Stopway Distance 262'

Runway 33 (333.0°M) TDZE 1501'

Lights: Edge, ALS, Centerline, REIL

Displaced Threshold Distance 1640'

Stopway Distance 656'

**Communications Info**Pamplona Tower **118.2**Pamplona Ground Control **121.7****Notebook Info**

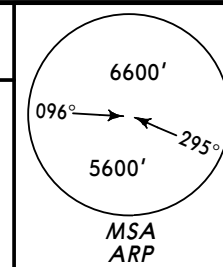
**LEPP/PNA**  
**PAMPLONA**

**JEPPesen**  
 9 OCT 09 **10-3** **Eff 22 Oct**

**PAMPLONA, SPAIN**  
**RNAV SID**

Apt Elev  
**1504'**

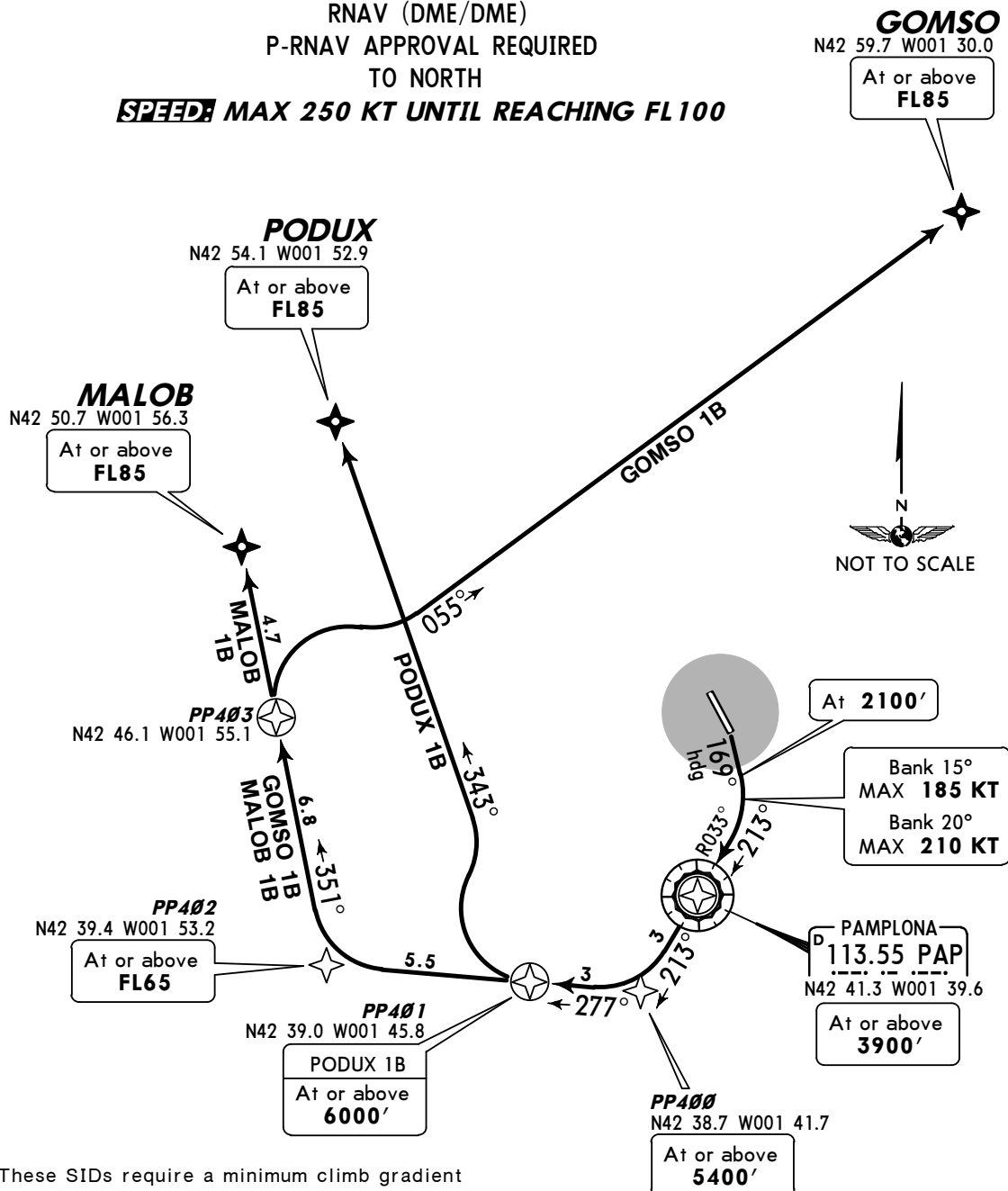
Trans level: By ATC Trans alt: 6000'



**GOMSO ONE BRAVO (GOMSO 1B) [GOMS1B]**  
**MALOB ONE BRAVO (MALOB 1B) [MALO1B]**  
**PODUX ONE BRAVO (PODUX 1B) [PODU1B]**  
**RWY 15 RNAV DEPARTURES**

**RNAV (DME/DME)**  
**P-RNAV APPROVAL REQUIRED**  
**TO NORTH**

**~~SPEED~~ MAX 250 KT UNTIL REACHING FL 100**



These SIDs require a minimum climb gradient of 486' per NM (8%) until leaving 5000' due to airspace restrictions and DME coverage.

| Gnd speed-KT | 75  | 100 | 150  | 200  | 250  | 300  |
|--------------|-----|-----|------|------|------|------|
| 486' per NM  | 608 | 810 | 1215 | 1620 | 2025 | 2430 |

Turns before DER are not permitted.

#### INITIAL CLIMB

Climb on 169° heading to 2100', turn RIGHT, intercept PAP R-033 inbound to PAP.

| SID             | ROUTING                                                                |
|-----------------|------------------------------------------------------------------------|
| <b>GOMSO 1B</b> | PAP (3900'+) - PP400 (5400'+) - PP402 (FL65+) - PP403 - GOMSO (FL85+). |
| <b>MALOB 1B</b> | PAP (3900'+) - PP400 (5400'+) - PP402 (FL65+) - MALOB (FL85+).         |
| <b>PODUX 1B</b> | PAP (3900'+) - PP400 (5400'+) - PP401 (6000'+) - PODUX (FL85+).        |

CHANGES: New procedure at this airport.

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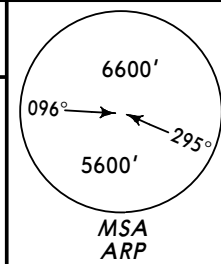
**LEPP/PNA**  
**PAMPLONA**

**JEPPESEN**  
 9 OCT 09 **(10-3A)** **Eff 22 Oct**

**PAMPLONA, SPAIN**  
**RNAV SID**

Apt Elev  
**1504'**

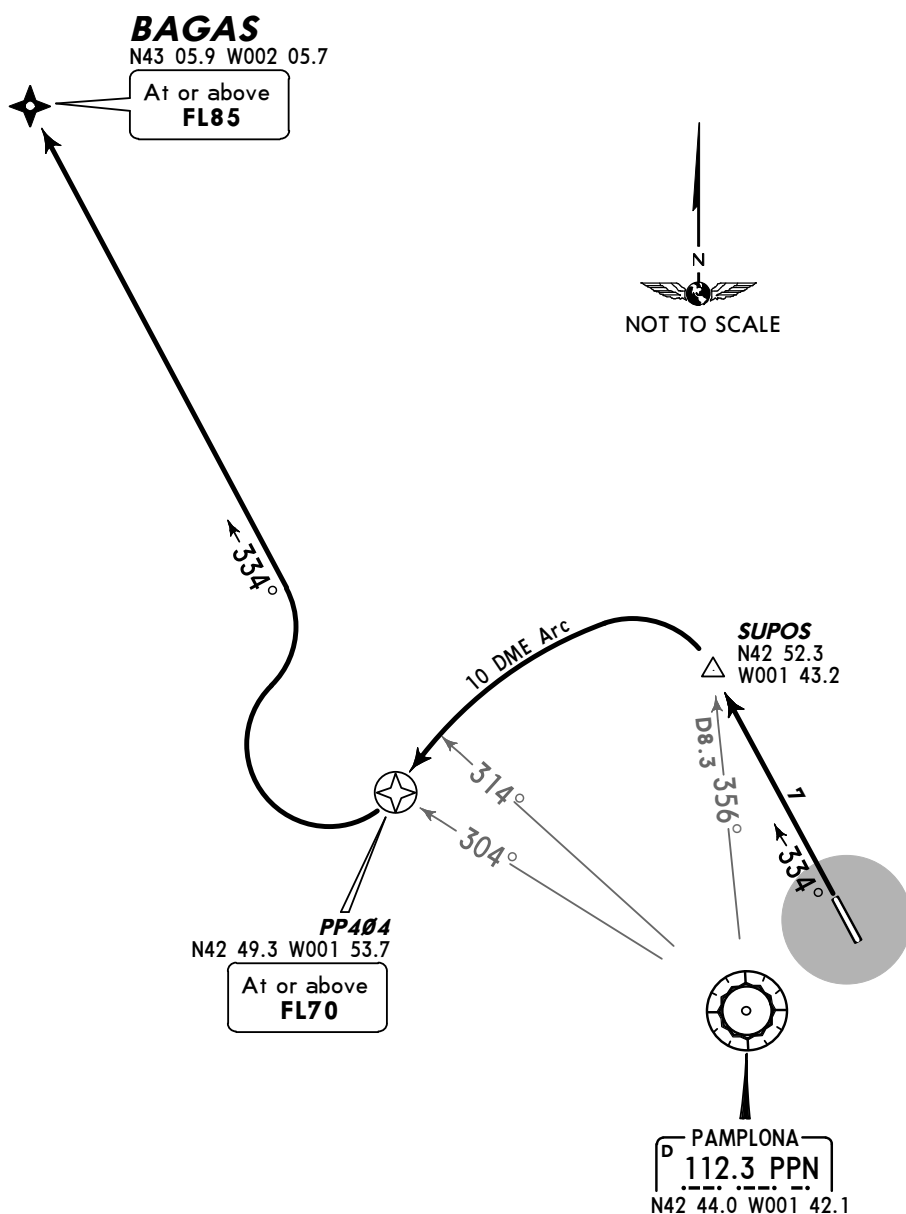
Trans level: By ATC Trans alt: 6000'



**BAGAS ONE DELTA (BAGAS 1D) [BAGA1D]**  
**RWY 33 RNAV DEPARTURE**

RNAV (DME/DME)  
 P-RNAV APPROVAL REQUIRED  
 TO NORTH

***SPEED: MAX 250 KT UNTIL REACHING FL100***



This SID requires a minimum climb gradient  
 of  
 365' per NM (6%) until leaving **FL70**.

| Gnd speed-KT | 75  | 100 | 150 | 200  | 250  | 300  |
|--------------|-----|-----|-----|------|------|------|
| 365' per NM  | 456 | 608 | 911 | 1215 | 1519 | 1823 |

**INITIAL CLIMB/ROUTING**

Climb on runway heading to SUPOS, turn LEFT, along PPN 10 DME arc to PP404 **(FL70+) - BAGAS (FL85+)**.

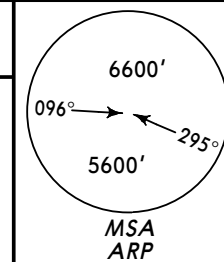
**LEPP/PNA**  
**PAMPLONA**

**JEPPESEN**  
9 OCT 09 **(10-3B)** **Eff 22 Oct**

**PAMPLONA, SPAIN**  
**RNAV SID**

Apt Elev  
**1504'**

Trans level: By ATC    Trans alt: 6000'



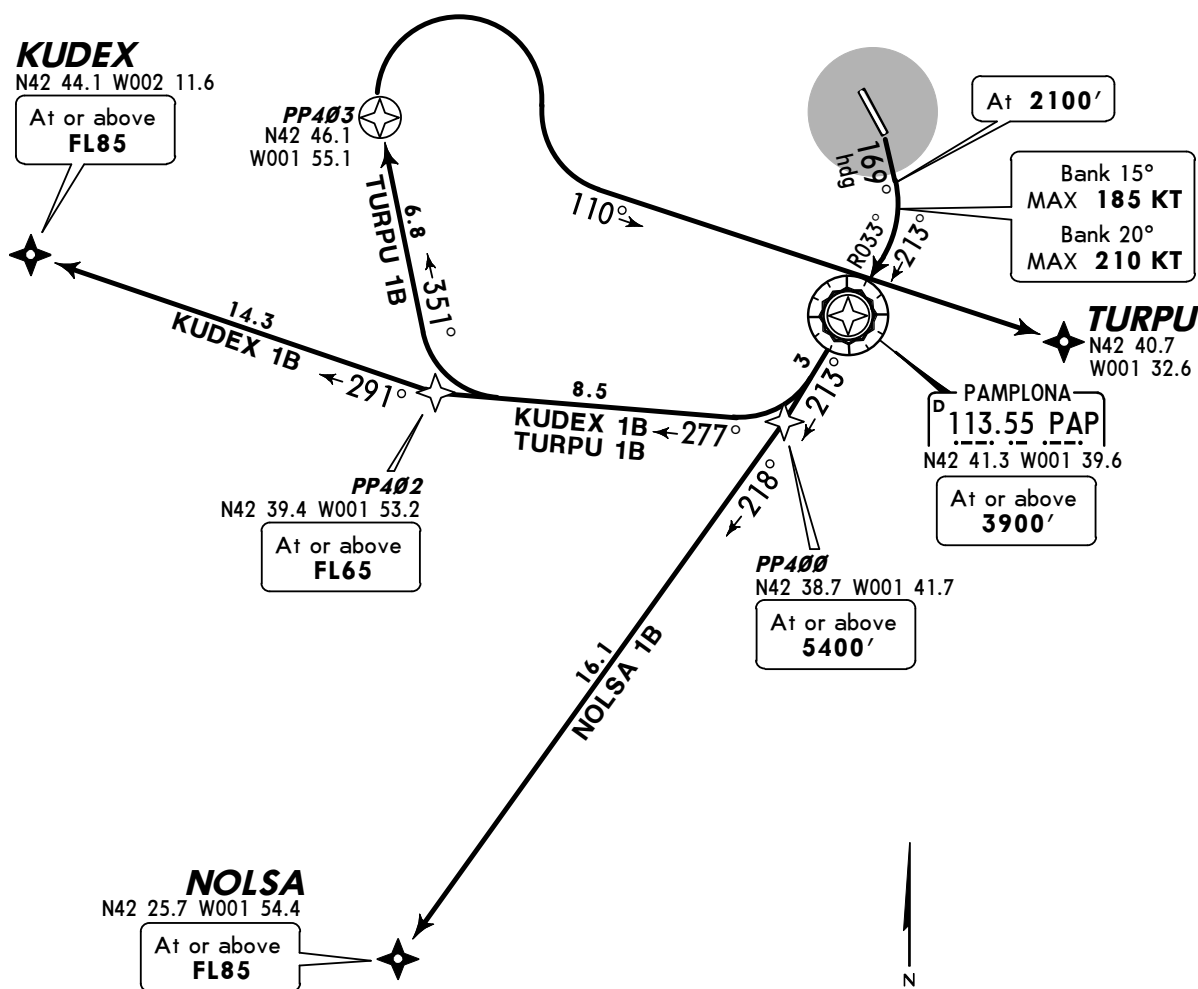
**KUDEX ONE BRAVO (KUDEX 1B) [KUDEX 1B]**  
**NOLSA ONE BRAVO (NOLSA 1B) [NOLSA 1B]**  
**TURPU ONE BRAVO (TURPU 1B) [TURPU 1B]**

**RWY 15 RNAV DEPARTURES**

RNAV (DME/DME)

P-RNAV APPROVAL REQUIRED  
TO SOUTH & WEST

**~~SPEED~~ MAX 250 KT UNTIL REACHING FL 100**



These SIDs require a minimum climb gradient of 486' per NM (8%) until leaving **5000'** due to airspace restrictions and DME coverage.

| Gnd speed-KT | 75  | 100 | 150  | 200  | 250  | 300  |
|--------------|-----|-----|------|------|------|------|
| 486' per NM  | 608 | 810 | 1215 | 1620 | 2025 | 2430 |

Turns before DER are not permitted.

**INITIAL CLIMB**

Climb on 169° heading to **2100'**, turn RIGHT, intercept PAP R-033 inbound to PAP.

| SID             | ROUTING                                                        |
|-----------------|----------------------------------------------------------------|
| <b>KUDEX 1B</b> | PAP (3900'+) - PP400 (5400'+) - PP402 (FL65+) - KUDEX (FL85+). |
| <b>NOLSA 1B</b> | PAP (3900'+) - PP400 (5400'+) - NOLSA (FL85+).                 |
| <b>TURPU 1B</b> | PAP (3900'+) - PP400 (5400'+) - PP402 (FL65+) - PP403 - TURPU. |

CHANGES: New procedure at this airport.

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**LEPP/PNA**  
**PAMPLONA**

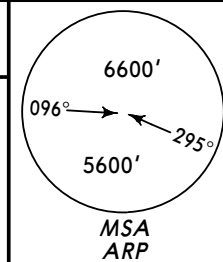
**JEPPESEN**  
9 OCT 09 (10-3C) Eff 22 Oct

## PAMPLONA, SPAIN

**RNAV SID**

Apt Elev  
1504'

Trans level: By ATC      Trans alt: 6000'



**KUDEX ONE DELTA (KUDEX 1D)** [*KUDE1D*]

**NOLSA ONE DELTA (NOLSA 1D)** [*NOLS1D*]

**TURPU ONE DELTA (TURPU 1D)**  $[TURP1D]$

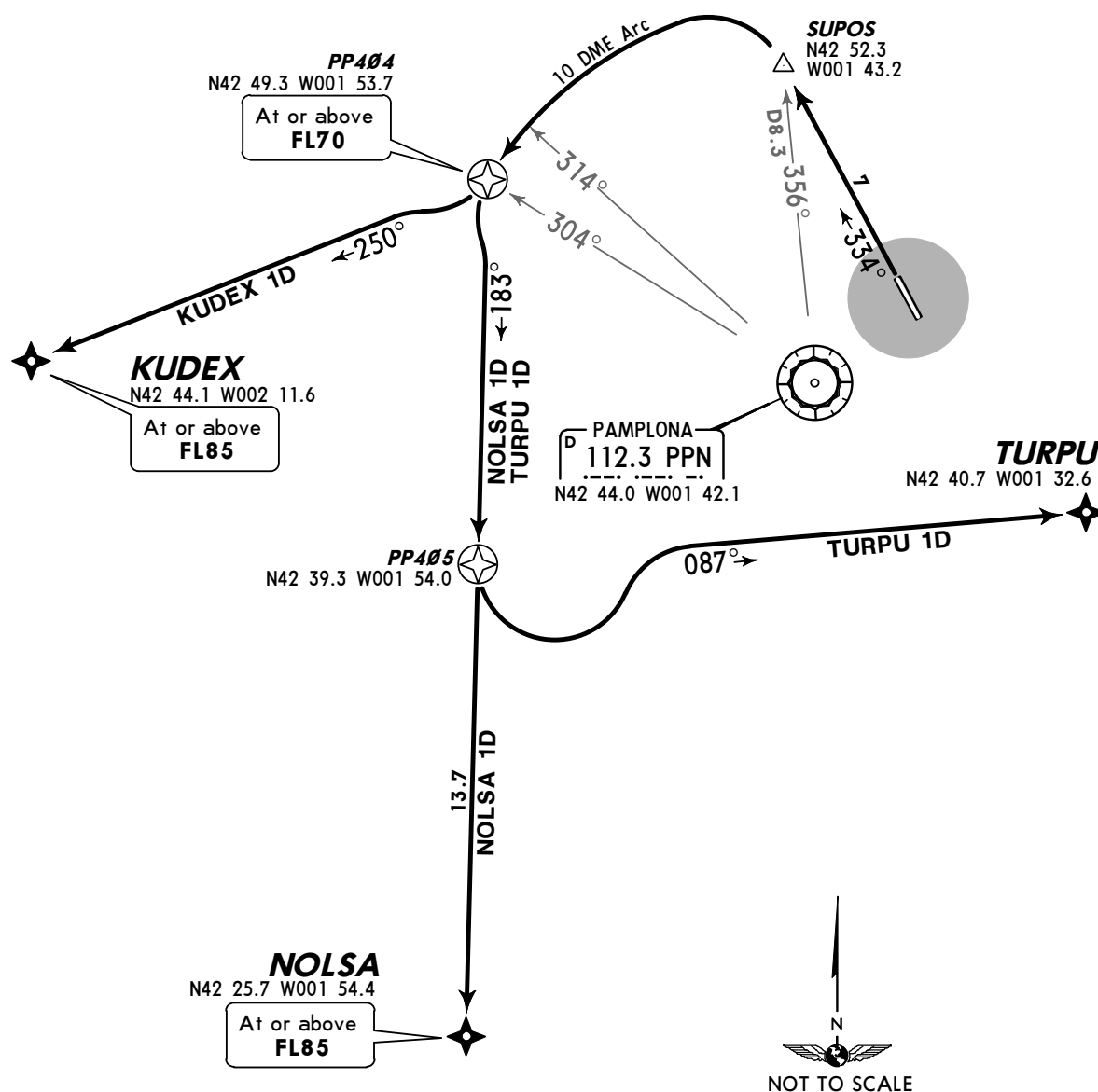
## RWY 33 RNAV DEPARTURES

RNAV (DME/DME)

**P-RNAV APPROVAL REQUIRED**

TO SOUTH & WEST

***SPEED: MAX 250 KT UNTIL REACHING FL 100***



These SIDs require a minimum climb gradient of 365' per NM (6%) until leaving **FL70**.

|              |     |     |     |      |      |      |
|--------------|-----|-----|-----|------|------|------|
| Gnd speed-KT | 75  | 100 | 150 | 200  | 250  | 300  |
| 365' per NM  | 456 | 608 | 911 | 1215 | 1519 | 1823 |

## INITIAL CLIMB

Climb on runway heading to SUPOS, turn LEFT, along PPN 10 DME arc to PP404.

| SID      | ROUTING                        |
|----------|--------------------------------|
| KUDEX 1D | PP404 (FL70+) - KUDEX (FL85+). |
| NOLSA 1D | PP404 (FL70+) - NOLSA (FL85+). |
| TURPU 1D | PP404 (FL70+) - PP405 - TURPU. |

**CHANGES:** New procedure at this airport.

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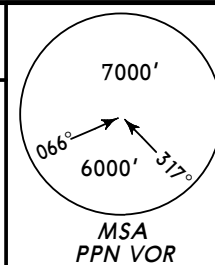
**LEPP/PNA**  
**PAMPLONA**

**JEPPESEN**  
 9 OCT 09 **(10-3D)** **Eff 22 Oct**

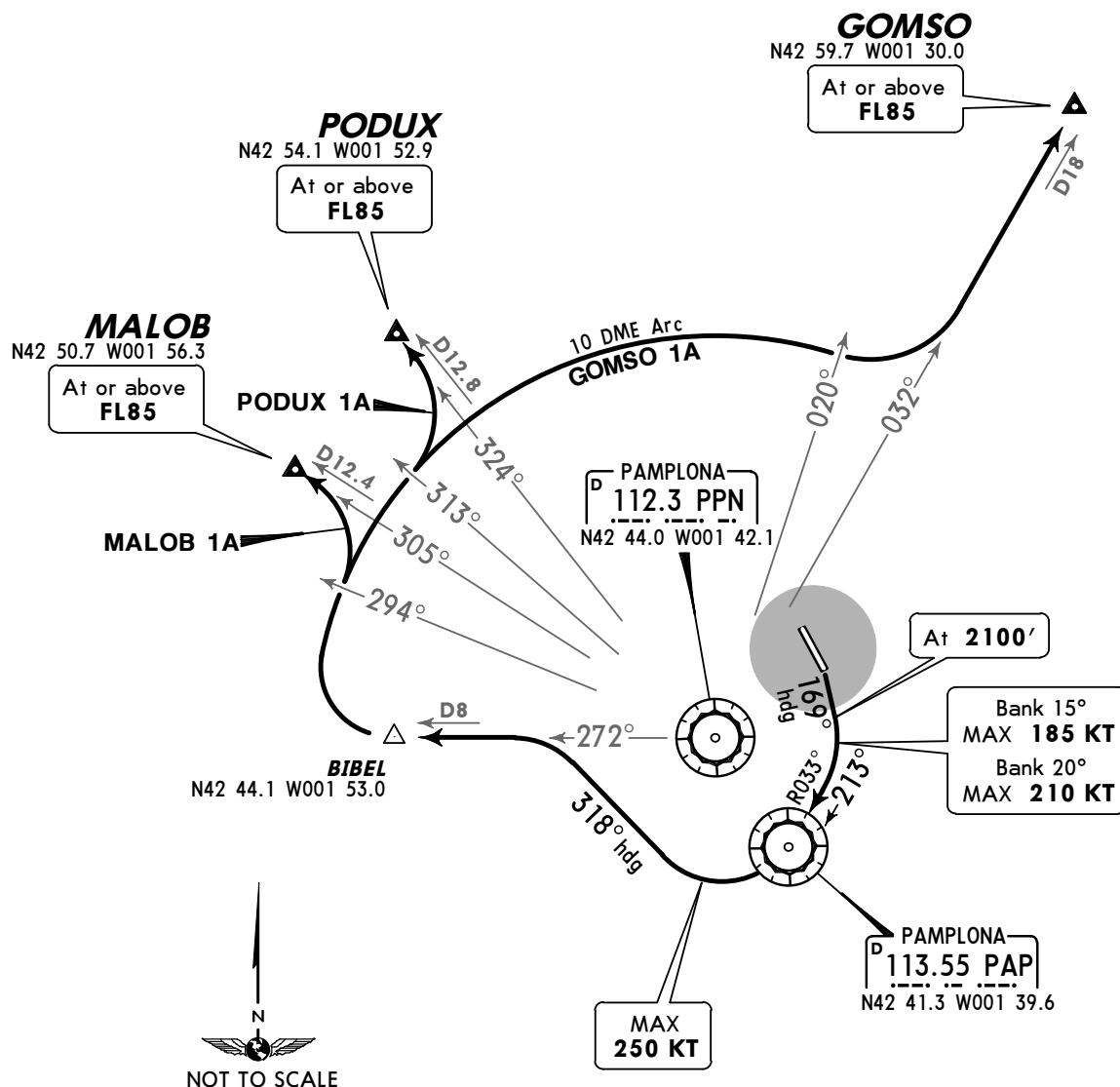
**PAMPLONA, SPAIN**  
**SID**

Apt Elev  
**1504'**

Trans level: By ATC Trans alt: 6000'



**GOMSO ONE ALFA (GOMSO 1A) [GOMS1A]**  
**MALOB ONE ALFA (MALOB 1A) [MALO1A]**  
**PODUX ONE ALFA (PODUX 1A) [PODU1A]**  
**RWY 15 DEPARTURES**  
**TO NORTH**



These SIDs require a minimum climb gradient of 486' per NM (8%) until leaving **5000'**.

| Gnd speed-KT | 75  | 100 | 150  | 200  | 250  | 300  |
|--------------|-----|-----|------|------|------|------|
| 486' per NM  | 608 | 810 | 1215 | 1620 | 2025 | 2430 |

Turns before DER are not permitted.

#### INITIAL CLIMB

Climb on 169° heading to **2100'**, turn RIGHT, intercept PAP R-033 inbound to PAP, turn RIGHT, 318° heading, intercept PPN R-272 to BIBEL, turn RIGHT, along PPN 10 DME arc.

| SID             | ROUTING                                                         |
|-----------------|-----------------------------------------------------------------|
| <b>GOMSO 1A</b> | When passing PPN R-020 turn LEFT, intercept PPN R-032 to GOMSO. |
| <b>MALOB 1A</b> | When passing PPN R-294 turn LEFT, intercept PPN R-305 to MALOB. |
| <b>PODUX 1A</b> | When passing PPN R-313 turn LEFT, intercept PPN R-324 to PODUX. |

CHANGES: New procedure at this airport.

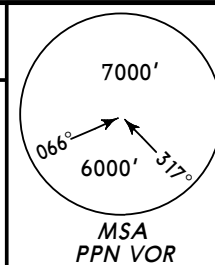
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**LEPP/PNA**  
**PAMPLONA**

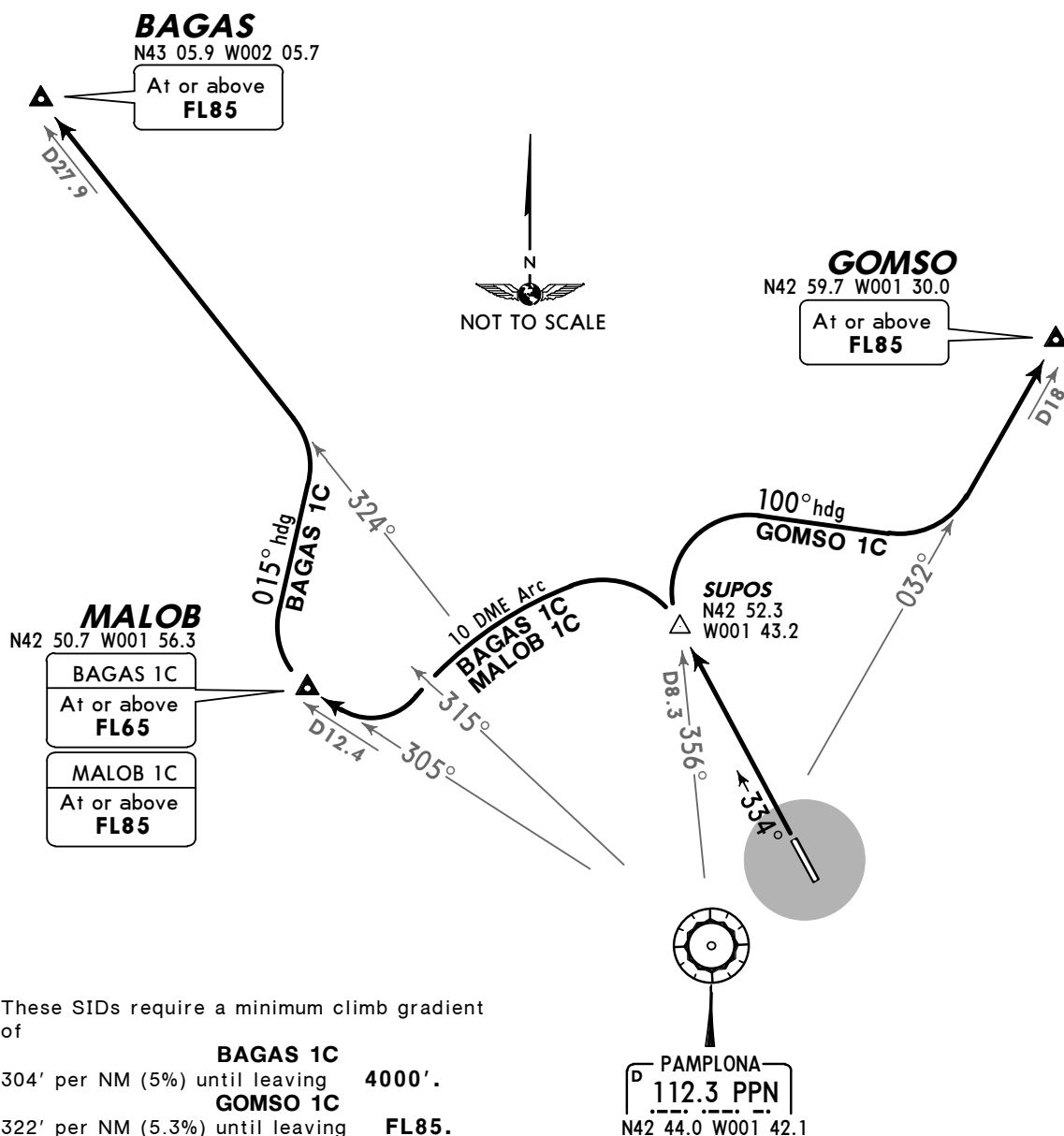
**JEPPESEN**  
 9 OCT 09 **(10-3E)** **Eff 22 Oct**

**PAMPLONA, SPAIN**  
**SID**

Apt Elev  
**1504'** Trans level: By ATC Trans alt: 6000'



**BAGAS ONE CHARLIE (BAGAS 1C) [BAGA1C]**  
**GOMSO ONE CHARLIE (GOMSO 1C) [GOMS1C]**  
**MALOB ONE CHARLIE (MALOB 1C) [MALO1C]**  
**RWY 33 DEPARTURES**  
**TO NORTH**



These SIDs require a minimum climb gradient of

**BAGAS 1C**  
 304' per NM (5%) until leaving **4000'**.  
**GOMSO 1C**  
 322' per NM (5.3%) until leaving **FL85**.  
**MALOB 1C**  
 383' per NM (6.3%) until leaving **FL85**.

| Gnd speed-KT | 75  | 100 | 150 | 200  | 250  | 300  |
|--------------|-----|-----|-----|------|------|------|
| 383' per NM  | 479 | 638 | 957 | 1276 | 1595 | 1914 |
| 322' per NM  | 403 | 537 | 805 | 1073 | 1342 | 1610 |
| 304' per NM  | 380 | 506 | 760 | 1013 | 1266 | 1519 |

| SID             | ROUTING                                                                                                                                                                                     |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BAGAS 1C</b> | Climb on runway heading to SUPOS, turn LEFT, along PPN 10 DME arc, when passing PPN R-315 turn RIGHT, intercept PPN R-305 to MALOB, turn RIGHT, 015° heading, intercept PPN R-324 to BAGAS. |
| <b>GOMSO 1C</b> | Climb on runway heading to SUPOS, turn RIGHT, 100° heading, intercept PPN R-032 to GOMSO.                                                                                                   |
| <b>MALOB 1C</b> | Climb on runway heading to SUPOS, turn LEFT, along PPN 10 DME arc, when passing PPN R-315 turn RIGHT, intercept PPN R-305 to MALOB.                                                         |

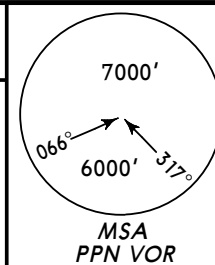
**LEPP/PNA**  
**PAMPLONA**

**JEPPESEN**  
 9 OCT 09 **10-3F** **Eff 22 Oct**

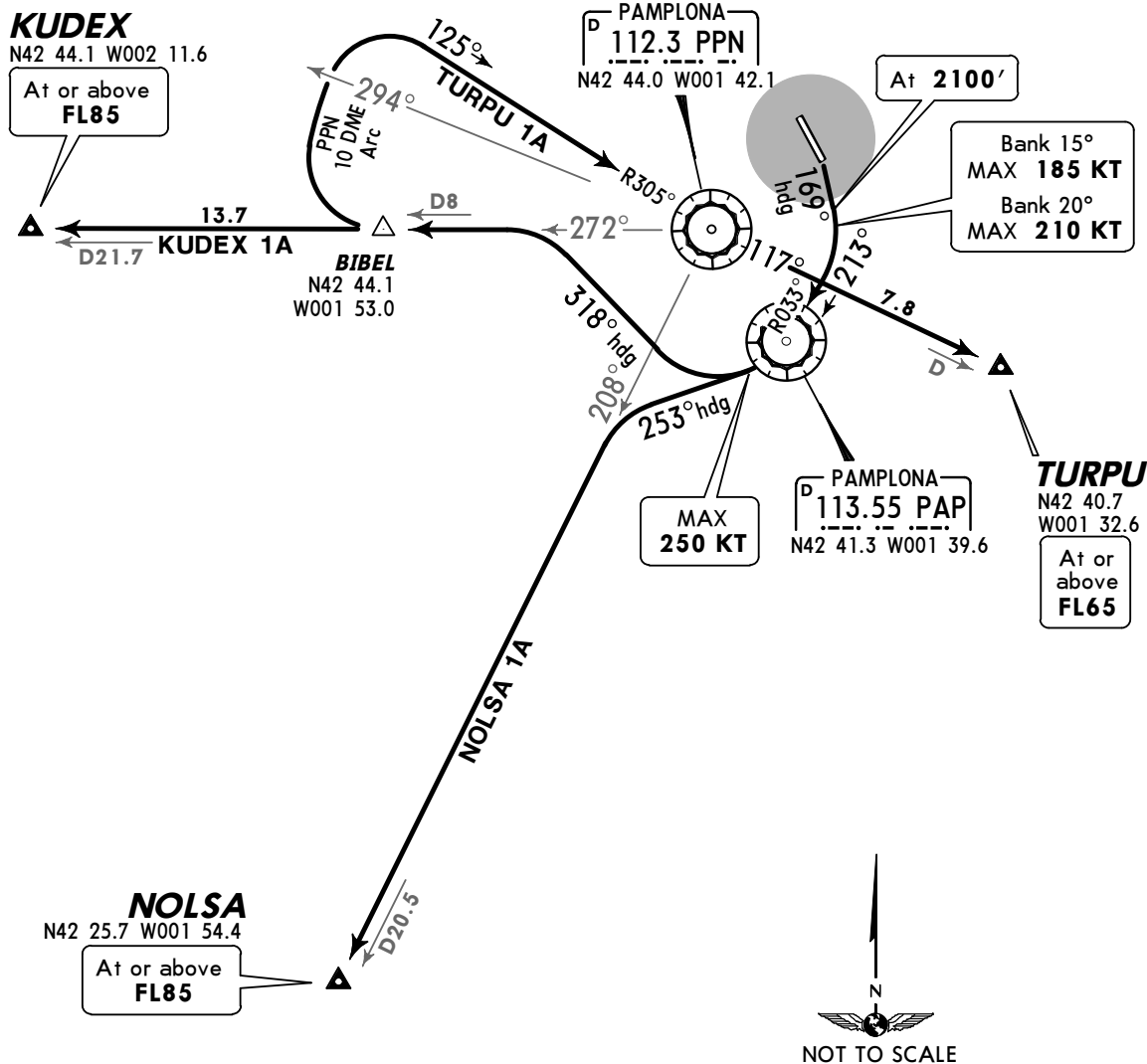
**PAMPLONA, SPAIN**  
**SID**

Apt Elev  
**1504'**

Trans level: By ATC Trans alt: 6000'



**KUDEX ONE ALFA (KUDEX 1A) [KUDEX1A]**  
**NOLSA ONE ALFA (NOLSA 1A) [NOLSA1A]**  
**TURPU ONE ALFA (TURPU 1A) [TURP1A]**  
**RWY 15 DEPARTURES**  
**TO SOUTH & WEST**



These SIDs require a minimum climb gradient of 486' per NM (8%) until leaving **5000'**.

| Gnd speed-KT | 75  | 100 | 150  | 200  | 250  | 300  |
|--------------|-----|-----|------|------|------|------|
| 486' per NM  | 608 | 810 | 1215 | 1620 | 2025 | 2430 |

Turns before DER are not permitted.

| SID             | ROUTING                                                                                                                                                                                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>KUDEX 1A</b> | Climb on 169° heading to <b>2100'</b> , turn RIGHT, intercept PAP R-033 inbound to PAP, turn RIGHT, 318° heading, intercept PPN R-272 via BIBEL to KUDEX.                                                                                                                    |
| <b>NOLSA 1A</b> | Climb on 169° heading to <b>2100'</b> , turn RIGHT, intercept PAP R-033 inbound to PAP, turn RIGHT, 253° heading, intercept PPN R-208 to NOLSA.                                                                                                                              |
| <b>TURPU 1A</b> | Climb on 169° heading to <b>2100'</b> , turn RIGHT, intercept PAP R-033 inbound to PAP, turn RIGHT, 318° heading, intercept PPN R-272 to BIBEL, turn RIGHT, along PPN 10 DME arc, when passing PPN R-294 turn RIGHT, intercept PPN R-305 inbound to PPN, PPN R-117 to TURPU. |

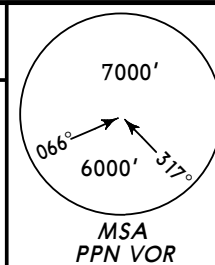
**LEPP/PNA**  
**PAMPLONA**

**JEPPESEN**  
 9 OCT 09 **(10-3G)** **Eff 22 Oct**

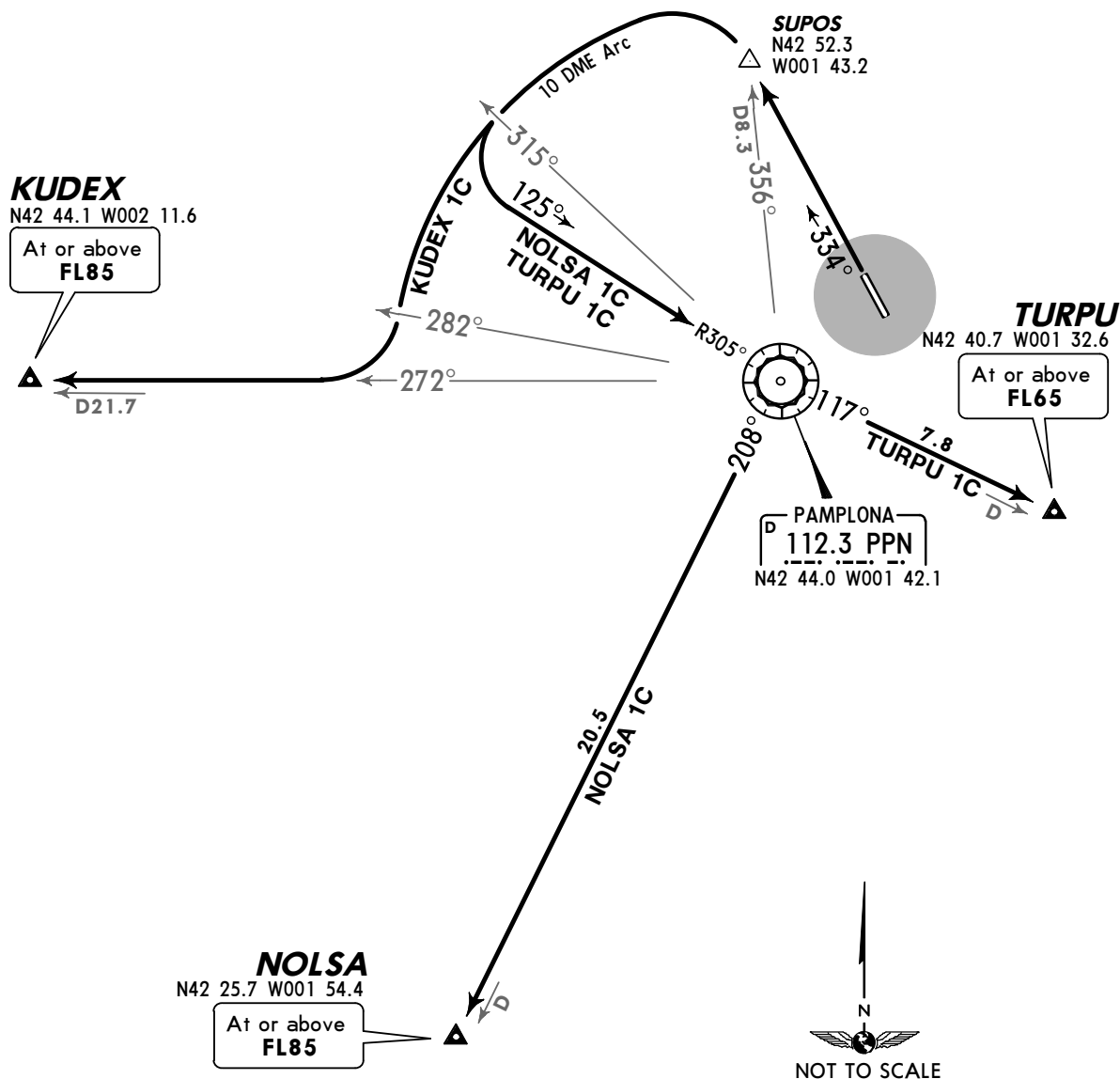
**PAMPLONA, SPAIN**  
**SID**

Apt Elev  
**1504'**

Trans level: By ATC Trans alt: 6000'



**KUDEX ONE CHARLIE (KUDEX 1C) [KUDEX1C]**  
**NOLSA ONE CHARLIE (NOLSA 1C) [NOLSA1C]**  
**TURPU ONE CHARLIE (TURPU 1C) [TURPU1C]**  
**RWY 33 DEPARTURES**  
**TO SOUTH & WEST**



These SIDs require a minimum climb gradient  
 of  
 304' per NM (5%) until leaving **4000'**.

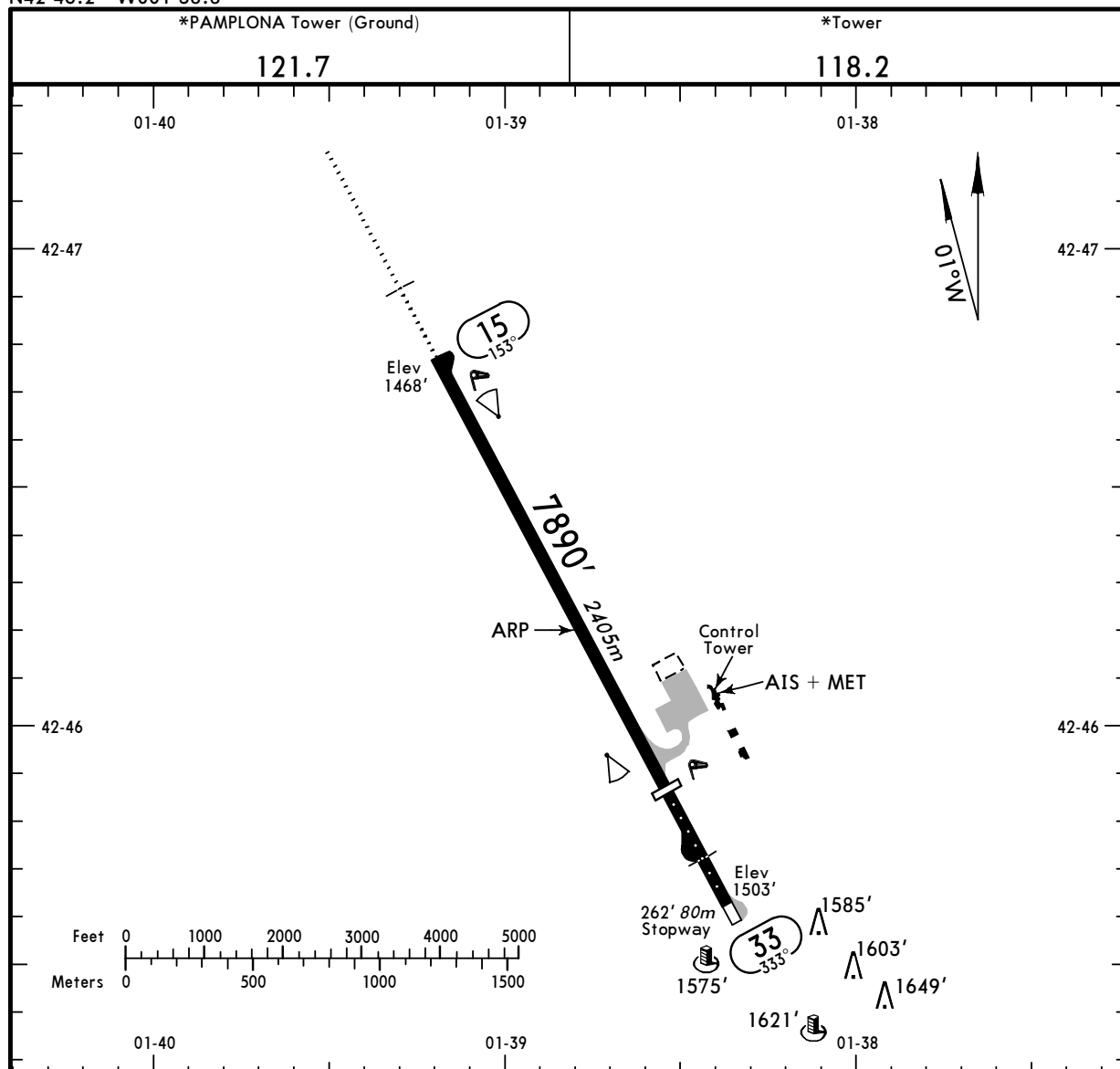
| Gnd speed-KT | 75  | 100 | 150 | 200  | 250  | 300  |
|--------------|-----|-----|-----|------|------|------|
| 304' per NM  | 380 | 506 | 760 | 1013 | 1266 | 1519 |

| SID             | ROUTING                                                                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>KUDEX 1C</b> | Climb on runway heading to SUPOS, turn LEFT, along PPN 10 DME arc, when passing PPN R-282 turn RIGHT, intercept PPN R-272 to KUDEX.                           |
| <b>NOLSA 1C</b> | Climb on runway heading to SUPOS, turn LEFT, along PPN 10 DME arc, when passing PPN R-315 turn RIGHT, intercept PPN R-305 inbound to PPN, PPN R-208 to NOLSA. |
| <b>TURPU 1C</b> | Climb on runway heading to SUPOS, turn LEFT, along PPN 10 DME arc, when passing PPN R-315 turn RIGHT, intercept PPN R-305 inbound to PPN, PPN R-117 to TURPU. |

**LEPP/PNA**  
Apt Elev **1505'**  
N42 46.2 W001 38.8

**JEPPESSEN**  
15 OCT 10 **(10-9)** **Eff 21 Oct**

**PAMPLONA, SPAIN**  
**PAMPLONA**



| ADDITIONAL RUNWAY INFORMATION |                                                |                |             |             |       |  |
|-------------------------------|------------------------------------------------|----------------|-------------|-------------|-------|--|
| RWY                           |                                                | USABLE LENGTHS |             |             | WIDTH |  |
|                               |                                                | LANDING BEYOND |             | TAKE-OFF    |       |  |
|                               |                                                | Threshold      | Glide Slope |             |       |  |
| 15                            | HIRL (50m) CL (30m) HIALS REIL PAPI (3.4°) RVR |                | 6979' 2127m | 7234' 2205m | 148'  |  |
| 33                            | HIRL (50m) CL (30m) HIALS LDIN REIL PAPI ① RVR | 6250' 1905m    |             |             | 45m   |  |
|                               |                                                |                |             |             |       |  |
|                               |                                                |                |             |             |       |  |
|                               |                                                |                |             |             |       |  |

① (angle 3.0°, MEHT 24')

**Standard**

**TAKE-OFF ①**

|   | LVP must be in force      |         |                          |                          |                   |
|---|---------------------------|---------|--------------------------|--------------------------|-------------------|
|   | RL, CL<br>& mult. RVR req | RL & CL | RCLM (DAY only)<br>or RL | RCLM (DAY only)<br>or RL | NIL<br>(DAY only) |
| A |                           |         |                          |                          |                   |
| B | 150m                      | 200m    | 250m                     | 400m                     | 500m              |
| C |                           |         |                          |                          |                   |
| D | 200m                      | 250m    | 300m                     |                          |                   |

① Operators applying U.S. Ops Specs: CL required below 300m.

**LEPP/PNA** **JEPPESEN**  
15 OCT 10 **(10-9A)** **Eff 21 Oct****PAMPLONA, SPAIN**  
**PAMPLONA****LOW VISIBILITY PROCEDURES (LVP)****1. General**

LVP will be applied when RVR is 550m or below.

Pilots will be informed by ATC service implicated about the application and cancellation of LVP.

ATC will cancel the procedure when the visibility becomes higher than 800m.

**2. Ground Movement**

Pilots must verify acft position at all times, checking that taxiing is being executed under total safety conditions. In case of being disoriented or in doubt, pilots must stop the acft immediately and notify ATC.

- Arrivals: Acft that have already landed will report "Runway vacated".

At the apron entry, acft must wait for the arrival of a "Follow-me" vehicle in order to be guided to the assigned stand and notify Tower "Follow-me in sight".

- Departures: Pilots will request clearance for engines start-up or taxiing instructions, notifying stand position.

Usually, when the RVR/visibility is lower than 550m, only one acft at a time will be authorized to taxi in the manoeuvring area.

In case of a departing acft that must return to the apron, the pilot will inform tower and wait for taxiing instructions.

**3. Communication Failure**

Departing acft: In case of communication failure, the acft will continue by the assigned route to its clearance limit, taking extreme caution to avoid detours. Once the point has been reached, it will maintain the position and wait for the arrival of a "Follow-me" vehicle in order to be guided to the stand position.

**OPERATIONAL AVAILABILITY**

The operational availability of ILS X or LOC X Rwy 15 (11-3), VOR A Rwy 33 (13-1), VOR B Rwy 33 (13-2), VOR C Rwy 33 (13-3) and VOR D Rwy 33 (13-4) is limited to a previous real approach in VMC or an approved simulator.

**LEPP/PNA**  
**PAMPLONA**

**JEPPESEN**  
15 OCT 10  
Eff 21 Oct (11-1)

**PAMPLONA, SPAIN**  
● ILS Z or LOC Z Rwy 15

BRIEFING STRIP

Approach Control through Tower  
\*PAMPLONA Tower  
118.2

\*Ground  
121.7

LOC  
IPN  
\*109.7

Final  
Apch Crs  
153°

GS  
D5.9 IPN  
3699' (2231')

ILS  
DA(H)  
Refer to  
Minimums

Apt Elev 1505'  
RWY 1468'

MISSED APCH: Climb on 153° to D1.6 IPN/R-074 PPN, then turn LEFT (CAT C: MAX 175 KT, CAT D: MAX 185 KT) to cross PP Lctr at or above 4000'. Climb to 5000' and join holding.

7000'

065°

6000'

316°

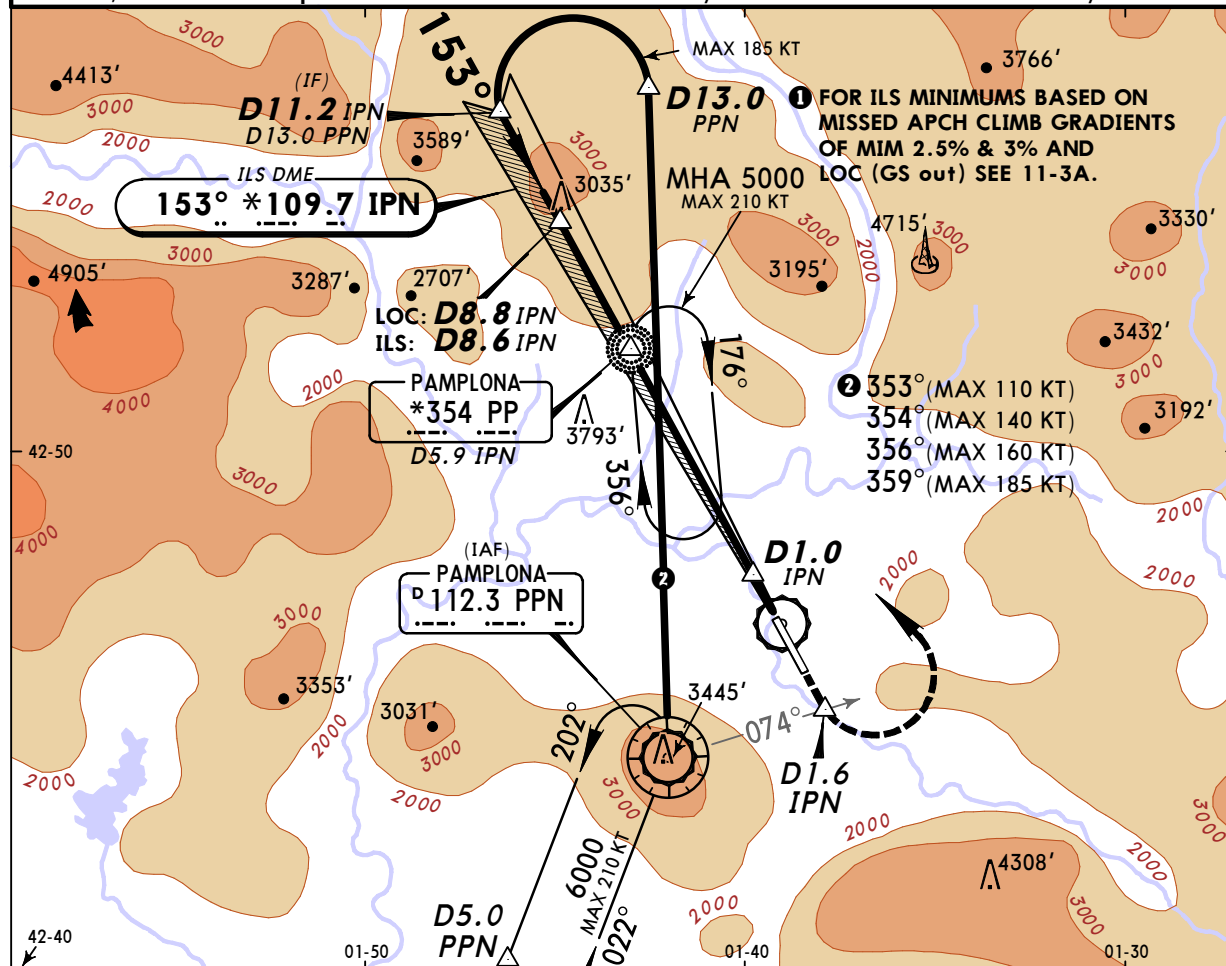
MSA  
PPN VOR

Alt Set: hPa  
1. VOR, DME & ADF required.

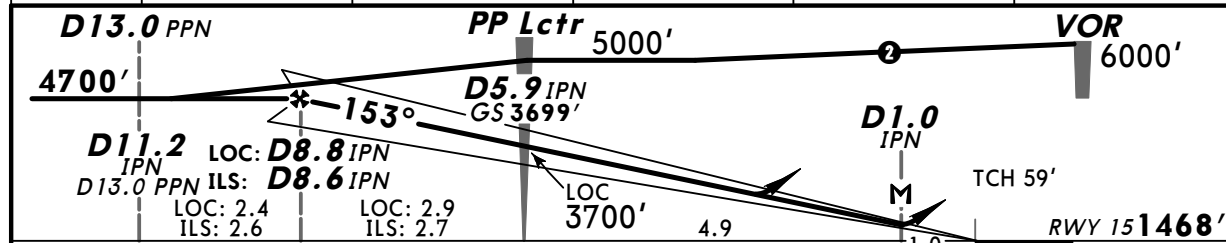
Rwy Elev: 53 hPa  
2. ILS DME reads zero at rwy 15 threshold.

Trans level: By ATC  
3. ILS: No OFZ rwy 15.

Trans alt: 6000'



| LOC<br>(GS out) | IPN DME<br>ALTITUDE | 8.0   | 7.0   | 6.0   | 5.0   |
|-----------------|---------------------|-------|-------|-------|-------|
|                 |                     | 4460' | 4090' | 3730' | 3360' |



|                          |       |     |     |     |     |     |     |
|--------------------------|-------|-----|-----|-----|-----|-----|-----|
| <i>Gnd speed-Kts</i>     | 70    | 90  | 100 | 120 | 140 | 160 |     |
| <i>ILS GS</i>            | 3.40° | 426 | 548 | 609 | 731 | 853 | 974 |
| <i>LOC Descent Angle</i> | 3.46° | 429 | 551 | 612 | 735 | 857 | 980 |
| <i>MAP at D1.0 IPN</i>   |       |     |     |     |     |     |     |

| Standard                                                              |           |         |           | Circle-to-Land after ILS   |                     |
|-----------------------------------------------------------------------|-----------|---------|-----------|----------------------------|---------------------|
| STRAIGHT-IN LANDING RWY 15                                            |           |         |           | Not authorized West of rwy |                     |
| ILS                                                                   |           |         |           |                            |                     |
| Missed apch climb gradient mim 4.5%                                   |           |         |           |                            |                     |
| DA(H) A: 1810' (342') C: 1830' (362') B: 1822' (354') D: 1870' (402') |           |         |           |                            |                     |
| FULL                                                                  |           | Limited | ALS out   | Max Kts                    | MDA(H) VIS          |
| A                                                                     | RVR 900m  |         | RVR 1500m | 100                        | 3100' (1595') 1500m |
| B                                                                     |           |         |           | 135                        | 3100' (1595') 1600m |
| C                                                                     | RVR 1000m |         | RVR 1700m | 180                        | 3620' (2115') 2400m |
| D                                                                     | RVR 1200m |         | RVR 1900m | 205                        | 4700' (3195') 3600m |

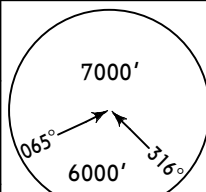
PANS OPS 4

**LEPP/PNA**  
**PAMPLONA**

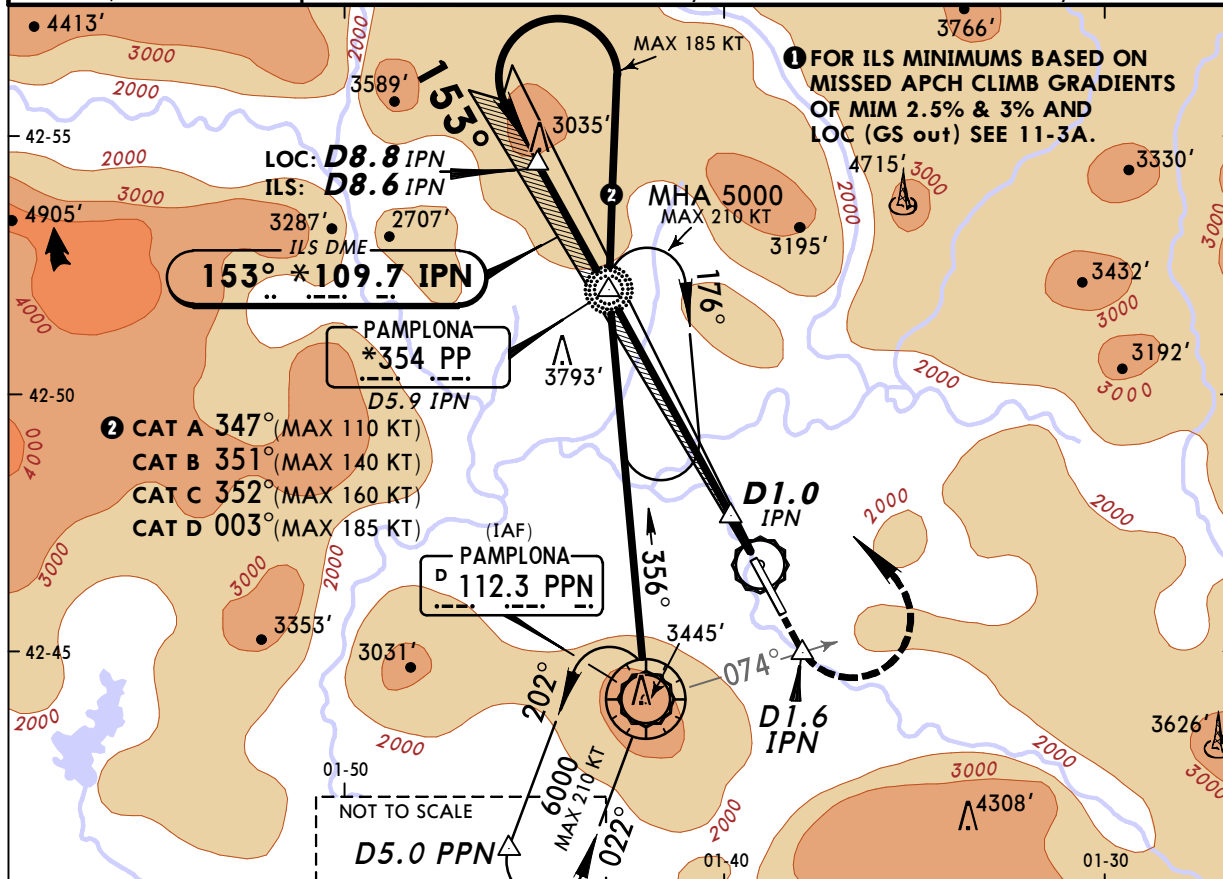
**JEPPesen**  
15 OCT 10  
Eff 21 Oct (11-2)

**PAMPLONA, SPAIN**  
● ILS Y or LOC Y Rwy 15

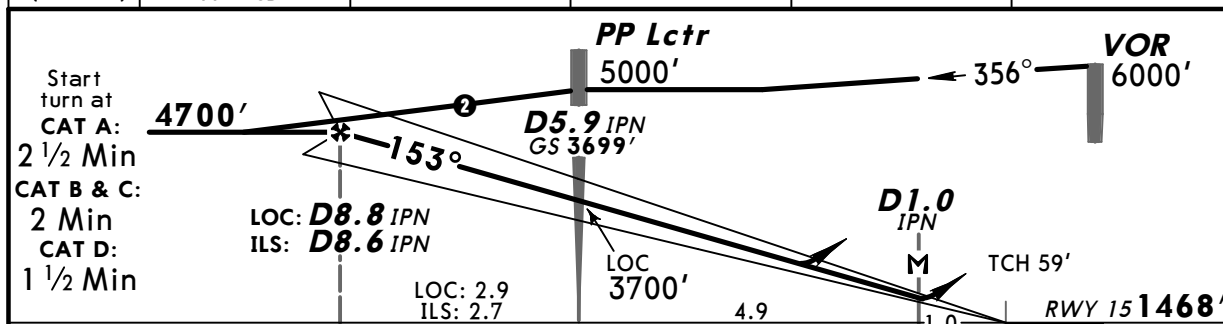
BRIEFING STRIP

|                                                                                                                                                                              |                          |                                 |                                      |                             |                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------|--------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------|
| Approach Control through Tower<br>*PAMPLONA Tower<br>118.2                                                                                                                   |                          |                                 | *Ground<br>121.7                     |                             | <br>MSA<br>PPN VOR |
| LOC<br>IPN<br>*109.7                                                                                                                                                         | Final<br>Apt Crs<br>153° | GS<br>D5.9 IPN<br>3699' (2231') | ILS<br>DA(H)<br>Refer to<br>Minimums | Apt Elev 1505'<br>RWY 1468' |                                                                                                       |
| MISSED APCH: Climb on 153° to D1.6 IPN/R-074 PPN, then turn LEFT (CAT C: MAX 175 KT, CAT D: MAX 185 KT) to cross PP Lctr at or above 4000'. Climb to 5000' and join holding. |                          |                                 |                                      |                             |                                                                                                       |
| Alt Set: hPa      Rwy Elev: 53 hPa      Trans level: By ATC      Trans alt: 6000'                                                                                            |                          |                                 |                                      |                             |                                                                                                       |
| 1. VOR, DME & ADF required. 2. ILS DME reads zero at rwy 15 threshold. 3. ILS: No OFZ rwy 15.                                                                                |                          |                                 |                                      |                             |                                                                                                       |

Alt Set: hPa Rwy Elev: 53 hPa Trans level: By ATC Trans alt: 6000'  
 1. VOR, DME & ADF required. 2. ILS DME reads zero at rwy 15 threshold. 3. ILS: No OFZ rwy 15.



| LOC<br>(GS out) | IPN DME<br>ALTITUDE | 8.0   | 7.0   | 6.0   | 5.0   |
|-----------------|---------------------|-------|-------|-------|-------|
|                 |                     | 4460' | 4090' | 3730' | 3360' |



|                   |       |     |     |     |     |     |     |      |     |             |
|-------------------|-------|-----|-----|-----|-----|-----|-----|------|-----|-------------|
| Gnd speed-Kts     | 70    | 90  | 100 | 120 | 140 | 160 |     |      | 1.0 |             |
| ILS GS            | 3.40° | 426 | 548 | 609 | 731 | 853 | 974 | REIL |     | HIALS       |
| LOC Descent Angle | 3.46° | 429 | 551 | 612 | 735 | 857 | 980 | PAPI |     | PAPI        |
| MAP at D1.0 IPN   |       |     |     |     |     |     |     |      |     | D1.6        |
|                   |       |     |     |     |     |     |     |      |     | IPN on 153° |

| Standard                                                              |           |         |  | CIRCLE-TO-LAND after ILS   |  |
|-----------------------------------------------------------------------|-----------|---------|--|----------------------------|--|
| STRAIGHT-IN LANDING RWY 15                                            |           |         |  | Not authorized West of rwy |  |
| ILS                                                                   |           |         |  |                            |  |
| Missed apch climb gradient mim 4.5%                                   |           |         |  |                            |  |
| DA(H) A: 1810' (342') C: 1830' (362') B: 1822' (354') D: 1870' (402') |           |         |  |                            |  |
| FULL                                                                  |           | Limited |  | ALS out                    |  |
| A                                                                     | RVR 900m  |         |  | RVR 1500m                  |  |
| B                                                                     |           |         |  |                            |  |
| C                                                                     | RVR 1000m |         |  | RVR 1700m                  |  |
| D                                                                     | RVR 1200m |         |  | RVR 1900m                  |  |

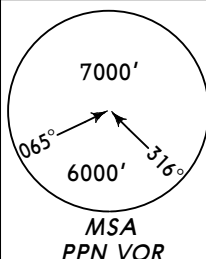
PANS OPS 4

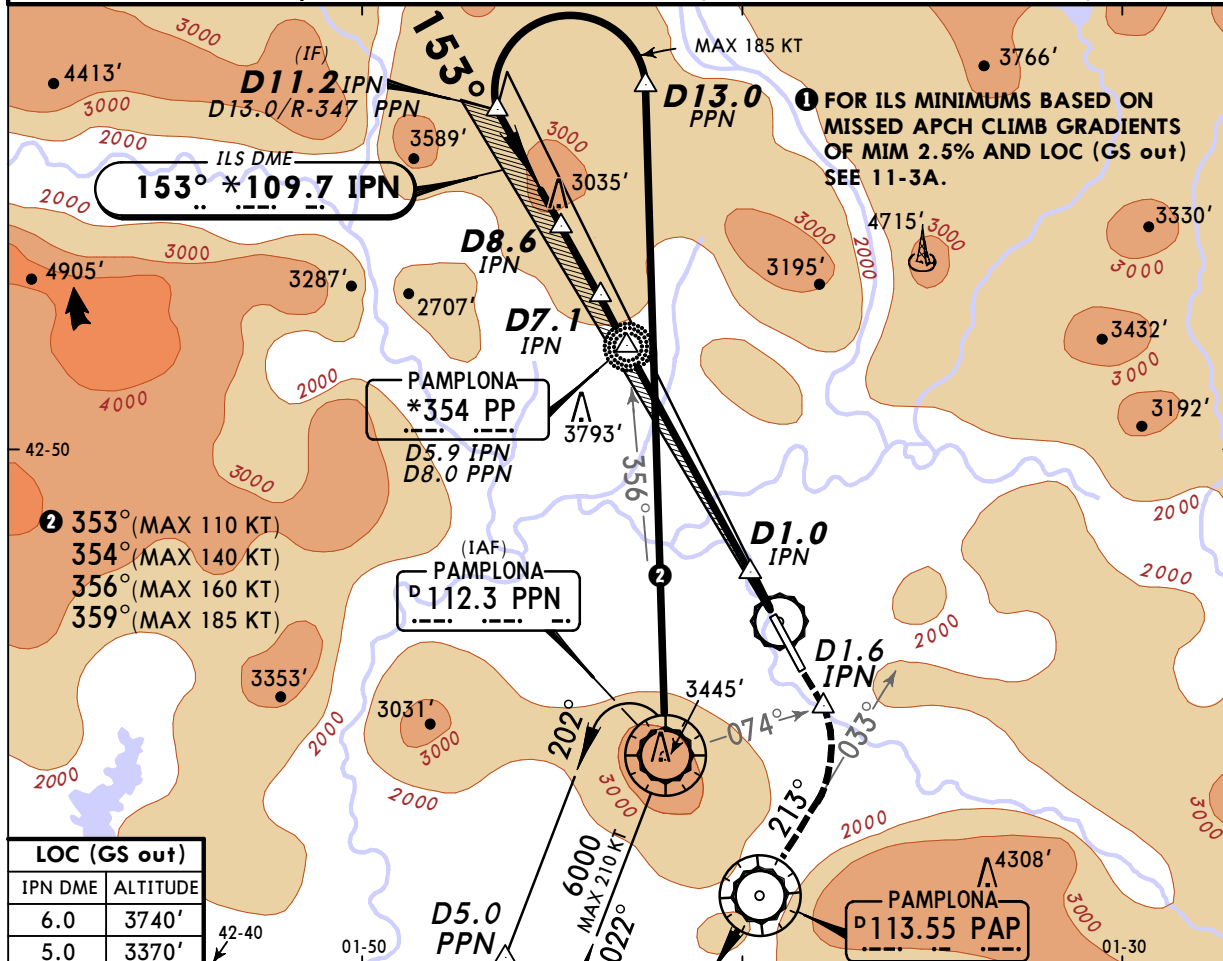
**LEPP/PNA**  
**PAMPLONA**

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15 OCT 10  
Eff 21 Oct (11-3)

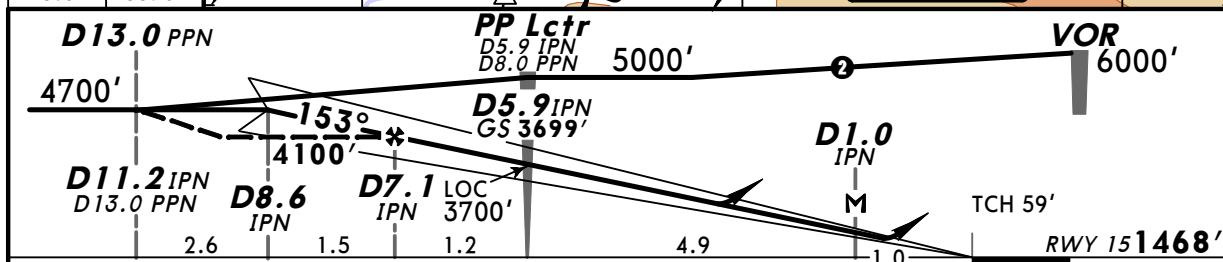
**PAMPLONA, SPAIN**  
● ILS X or LOC X Rwy 15

BRIEFING STRIP

|                                                                                                                                                                                                                                                          |                           |                                 |                                      |                             |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------|--------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|
| Approach Control through Tower<br>*PAMPLONA Tower 118.2                                                                                                                                                                                                  |                           |                                 | *Ground<br>121.7                     |                             |  |
| LOC<br>IPN<br>*109.7                                                                                                                                                                                                                                     | Final<br>Apch Crs<br>153° | GS<br>D5.9 IPN<br>3699' (2231') | ILS<br>DA(H)<br>Refer to<br>Minimums | Apt Elev 1505'<br>RWY 1468' |                                                                                     |
| MISSED APCH: Climb on 153° to D1.6 IPN/R-074 PPN, then turn RIGHT (CAT C: MAX 160 KT, CAT D: MAX 185 KT) to intercept R-033 inbound to PAP VOR. Climb on R-213 PAP to 4500', then turn RIGHT (MAX 185 KT) to PPN VOR climbing to 6000' and join holding. |                           |                                 |                                      |                             |                                                                                     |
| Alt Set: hPa Rwy Elev: 53 hPa Trans level: By ATC Trans alt: 6000'<br>1. VOR, DME & ADF required. 2. ILS DME reads zero at rwy 15 threshold. 3. ILS: No OFZ rwy 15.                                                                                      |                           |                                 |                                      |                             |                                                                                     |



| LOC (GS out) |          |
|--------------|----------|
| IPN DME      | ALTITUDE |
| 6.0          | 3740'    |
| 5.0          | 3370'    |



| <i>Gnd speed-Kts</i>           | 70  | 90  | 100 | 120 | 140 | 160 |
|--------------------------------|-----|-----|-----|-----|-----|-----|
| <i>ILS GS</i> 3.40°            | 426 | 548 | 609 | 731 | 853 | 974 |
| <i>LOC Descent Angle</i> 3.48° | 431 | 554 | 616 | 739 | 862 | 985 |
| <i>MAP at D1.0 IPN</i>         |     |     |     |     |     |     |

|                           |                     |
|---------------------------|---------------------|
| HIALS<br>REIL PAPI - PAPI | D1.6<br>IPN on 153° |
|---------------------------|---------------------|

PANS OPS 4

| Standard STRAIGHT-IN LANDING RWY 15                                                                             |           |           | CIRCLE-TO-LAND after ILS   |                     |
|-----------------------------------------------------------------------------------------------------------------|-----------|-----------|----------------------------|---------------------|
| Missed apch climb gradient mim 4.5%<br>A: 1669' (201') C: 1689' (221')<br>DA(H) B: 1681' (213') D: 2162' (694') |           |           | Not authorized West of rwy |                     |
| FULL                                                                                                            | Limited   | ALS out   | Max Kts                    | MDA(H) VIS          |
| A                                                                                                               |           |           | 100                        | 3100' (1595') 1500m |
| B                                                                                                               | RVR 550m  | RVR 750m  | 135                        | 3100' (1595') 1600m |
| C                                                                                                               |           | RVR 1200m | 180                        | 3620' (2115') 2400m |
| D                                                                                                               | CMV 2400m |           | 205                        | 4700' (3195') 3600m |

**LEPP/PNA**  
PAMPLONA **JEPPESEN**  
15 OCT 10 **11-3A** **Eff 21 Oct****PAMPLONA, SPAIN****ILS Z Rwy 15 MINIMUMS**  
**ILS Y Rwy 15 MINIMUMS****MISSED APCH CLIMB GRADIENT MIM 3.0%**

| <b>Standard</b> STRAIGHT-IN LANDING RWY 15 |                        |                        |         |
|--------------------------------------------|------------------------|------------------------|---------|
| ILS                                        |                        |                        |         |
| DA(H)                                      | A: <b>2129'</b> (661') | C: <b>2151'</b> (683') |         |
|                                            | B: <b>2142'</b> (674') | D: <b>2195'</b> (727') |         |
|                                            | FULL                   | Limited                | ALS out |
| A                                          | RVR 1500m              |                        |         |
| B                                          |                        |                        |         |
| C                                          | CMV 2400m              |                        |         |
| D                                          |                        |                        |         |

**MISSED APCH CLIMB GRADIENT MIM 2.5%**

| <b>Standard</b> STRAIGHT-IN LANDING RWY 15 |                        |                        |         |
|--------------------------------------------|------------------------|------------------------|---------|
| ILS                                        |                        |                        |         |
| DA(H)                                      | A: <b>2266'</b> (798') | C: <b>2288'</b> (820') |         |
|                                            | B: <b>2279'</b> (811') | D: <b>2330'</b> (862') |         |
|                                            | FULL                   | Limited                | ALS out |
| A                                          | RVR 1500m              |                        |         |
| B                                          |                        |                        |         |
| C                                          | CMV 2400m              |                        |         |
| D                                          |                        |                        |         |

**ILS X Rwy 15 MINIMUMS****MISSED APCH CLIMB GRADIENT MIM 2.5%**

| <b>Standard</b> STRAIGHT-IN LANDING RWY 15 |                        |                         |           |
|--------------------------------------------|------------------------|-------------------------|-----------|
| ILS                                        |                        |                         |           |
| DA(H)                                      | A: <b>2069'</b> (601') | C: <b>2089'</b> (621')  |           |
|                                            | B: <b>2081'</b> (613') | D: <b>2785'</b> (1317') |           |
|                                            | FULL                   | Limited                 | ALS out   |
| A                                          | RVR 1500m              |                         |           |
| B                                          |                        |                         |           |
| C                                          | CMV 2200m              |                         | CMV 2400m |
| D                                          | CMV 2400m              |                         |           |

**LOC (GS out) Z, Y, X Rwy 15 MINIMUMS**

| <b>Standard</b> STRAIGHT-IN LANDING RWY 15 |                      | CIRCLE-TO-LAND after LOC (GS out) |                            |
|--------------------------------------------|----------------------|-----------------------------------|----------------------------|
| LOC (GS out)                               |                      | Not authorized West of rwy        |                            |
| DA(H)                                      | <b>3100'</b> (1632') | Max Kts                           | MDA(H) VIS                 |
|                                            | ALS out              |                                   |                            |
| A                                          | CMV 5000m            | 100                               | <b>3140'</b> (1635') 5000m |
| B                                          |                      | 135                               |                            |
| C                                          |                      | 180                               | <b>3620'</b> (2115') 5000m |
| D                                          |                      | 205                               | <b>4700'</b> (3195') 5000m |

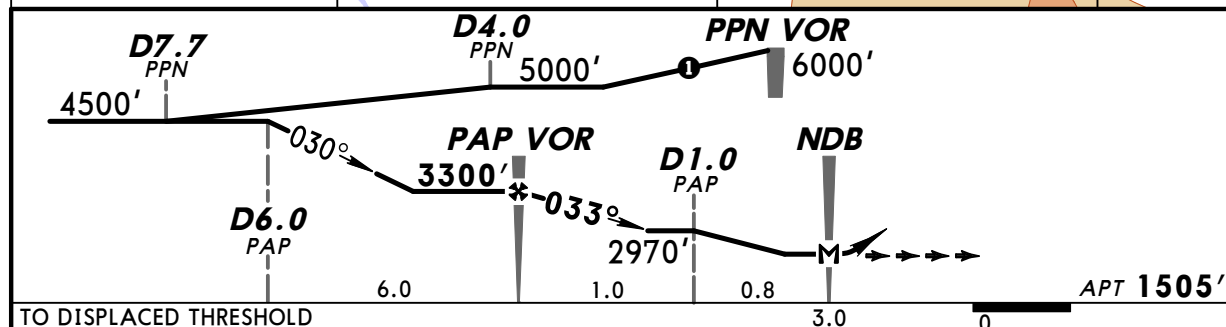
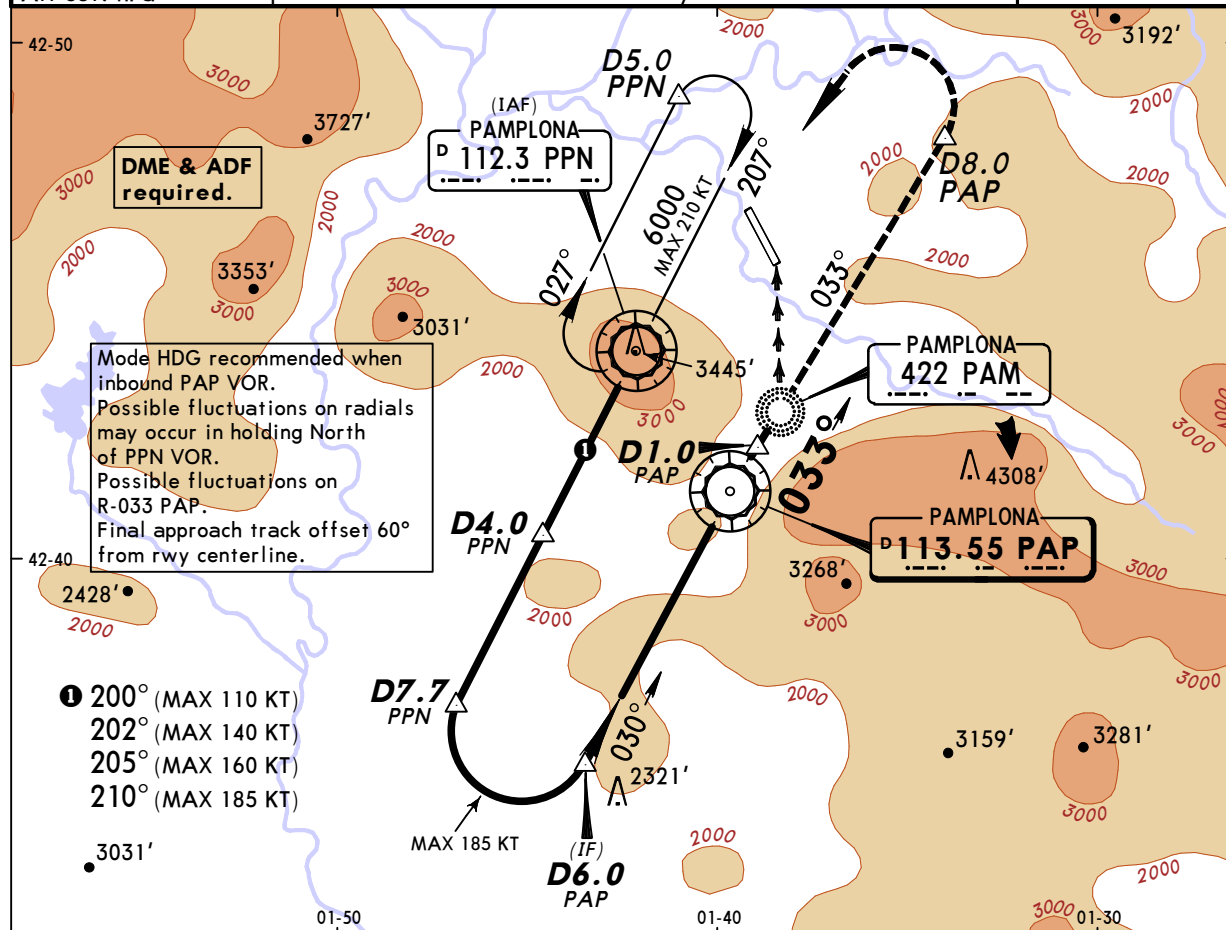
**LEPP/PNA**  
**PAMPLONA**

**JEPPESSEN**  
15 OCT 10 **Eff 21 Oct** **(13-1)** **CAT A, B & C**

PAMPLONA, SPAIN  
VOR A Rwy 33

**BRIEFING STRIP™**

|                                                                                                                                                                  |                                  |                                                |                                |                         |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|--------------------------------|-------------------------|-------------|
| Approach Control through Tower<br>*PAMPLONA Tower<br><b>118.2</b>                                                                                                |                                  |                                                |                                | *Ground<br><b>121.7</b> |             |
| VOR<br>PAP<br><b>113.55</b>                                                                                                                                      | Final<br>Apch Crs<br><b>033°</b> | Minimum Alt<br>PAP VOR<br><b>3300' (1795')</b> | MDA(H)<br>Refer to<br>Minimums | Apt Elev <b>1505'</b>   |             |
| MISSED APCH: Climb on R-033 PAP VOR to 4300' or D8.0 PAP,<br>whichever is earlier, then climbing turn LEFT (MAX 185 KT) to<br>PPN VOR and join holding at 6000'. |                                  |                                                |                                |                         |             |
| Alt Set: hPa                                                                                                                                                     | Apt Elev: 54 hPa                 | Trans level: By ATC                            | Trans alt: 6000'               |                         | MSA PPN VOR |

[illegible]

| Standard | STRAIGHT-IN LANDING |
|----------|---------------------|
|----------|---------------------|

CIRCLE-TO-LAND  
Not authorized West of rwy

|   |                | Missed apch climb<br>gradient mim 4.5% |                            | Missed apch climb<br>gradient mim 2.5% |  |
|---|----------------|----------------------------------------|----------------------------|----------------------------------------|--|
|   |                | Max<br>Kts.                            | <i>MDA(H)</i> <i>VIS</i>   | <i>MDA(H)</i> <i>VIS</i>               |  |
| A | NOT AUTHORIZED | 100                                    | <b>2500'</b> (995') 1500m  | <b>3300'</b> (1795') 1500m             |  |
| B |                | 135                                    | <b>2600'</b> (1095') 1600m | <b>3300'</b> (1795') 1600m             |  |
| C |                | 180                                    | <b>3100'</b> (1595') 2400m | <b>3300'</b> (1795') 2400m             |  |
| D |                | D                                      | NOT APPLICABLE             |                                        |  |

**1** Remain within 3.5 NM.

**CHANGES:** MSA. Bearings.

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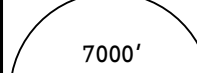
## PANS OPS 4

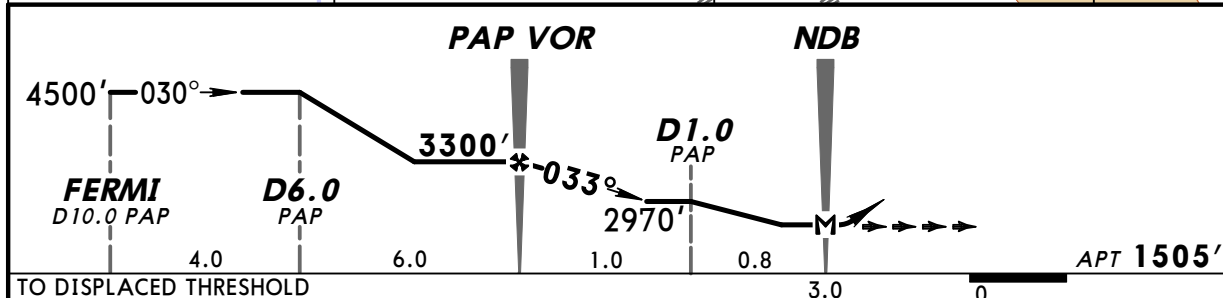
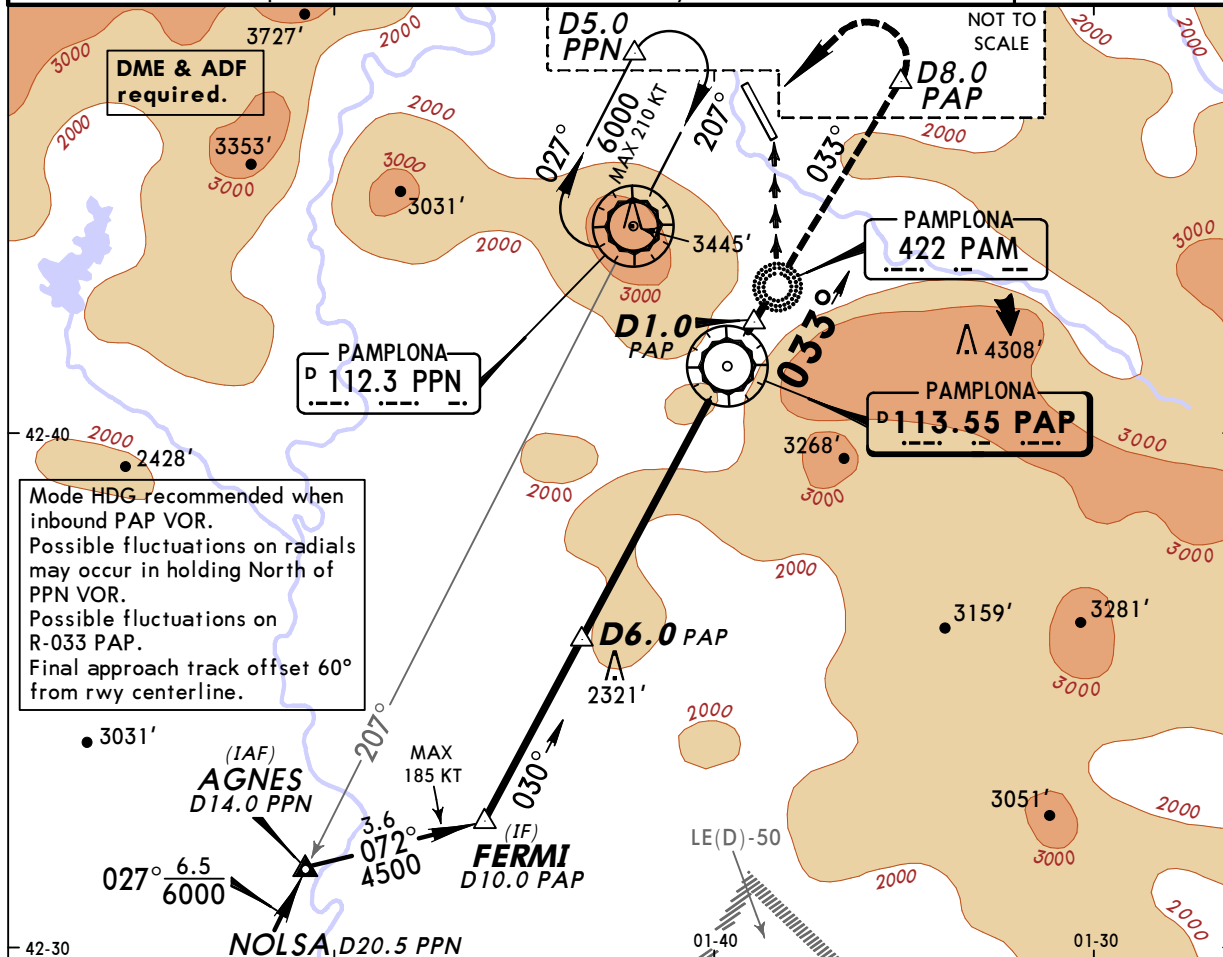
**LEPP/PNA**  
**PAMPLONA**

**JEPPesen**  
15 OCT 10  
Eff 21 Oct (13-2) CAT A, B & C

**PAMPLONA, SPAIN**  
**VOR B Rwy 33**

BRIEFING STRIP

|                                                                                                                                                            |                           |                                         |                                |                  |                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------|--------------------------------|------------------|-------------------------------------------------------------------------------------|
| Approach Control through Tower<br>*PAMPLONA Tower<br>118.2                                                                                                 |                           |                                         |                                | *Ground<br>121.7 |                                                                                     |
| VOR<br>PAP<br>113.55                                                                                                                                       | Final<br>Apch Crs<br>033° | Minimum Alt<br>PAP VOR<br>3300' (1795') | MDA(H)<br>Refer to<br>Minimums | Apt Elev 1505'   |  |
| MISSED APCH: Climb on R-033 PAP VOR to 4300' or D8.0 PAP, whichever is earlier, then climbing turn LEFT (MAX 185 KT) to PPN VOR and join holding at 6000'. |                           |                                         |                                |                  |                                                                                     |
| Alt Set: hPa                                                                                                                                               |                           | Apt Elev: 54 hPa                        | Trans level: By ATC            | Trans alt: 6000' |                                                                                     |
| MSA PPN VOR                                                                                                                                                |                           |                                         |                                |                  |                                                                                     |



|                        |  |  |  |                                   |                      |
|------------------------|--|--|--|-----------------------------------|----------------------|
| TO DISPLACED THRESHOLD |  |  |  | Lighting - Refer to Airport Chart |                      |
|                        |  |  |  | PAP <b>113.55</b>                 | D8.0 PAP             |
|                        |  |  |  | R-033                             | whichever is earlier |

| Standard |                | STRAIGHT-IN LANDING |       | CIRCLE-TO-LAND                      |                                     |
|----------|----------------|---------------------|-------|-------------------------------------|-------------------------------------|
|          |                |                     |       | Not authorized West of rwy          |                                     |
|          |                |                     |       | Missed apch climb gradient min 4.5% | Missed apch climb gradient min 2.5% |
| Max Kts  |                | MDA(H)              | VIS   | MDA(H)                              | VIS                                 |
| 100      | NOT AUTHORIZED | 2500' (995')        | 1500m | 3300' (1795')                       | 1500m                               |
| 135      |                | 2600' (1095')       | 1600m | 3300' (1795')                       | 1600m                               |
| 180      |                | 3100' (1595')       | 2400m | 3300' (1795')                       | 2400m                               |
| D        |                | NOT APPLICABLE      |       |                                     |                                     |

Remain within 3.5 NM.

CHANGES: MSA. Bearings.

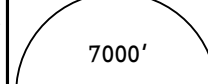
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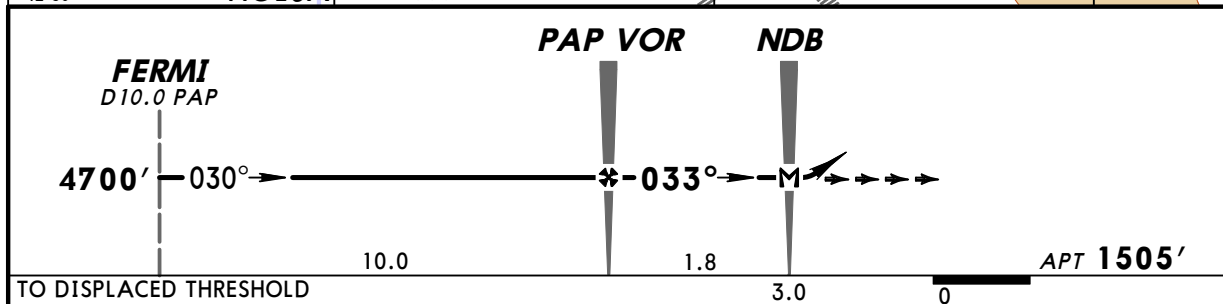
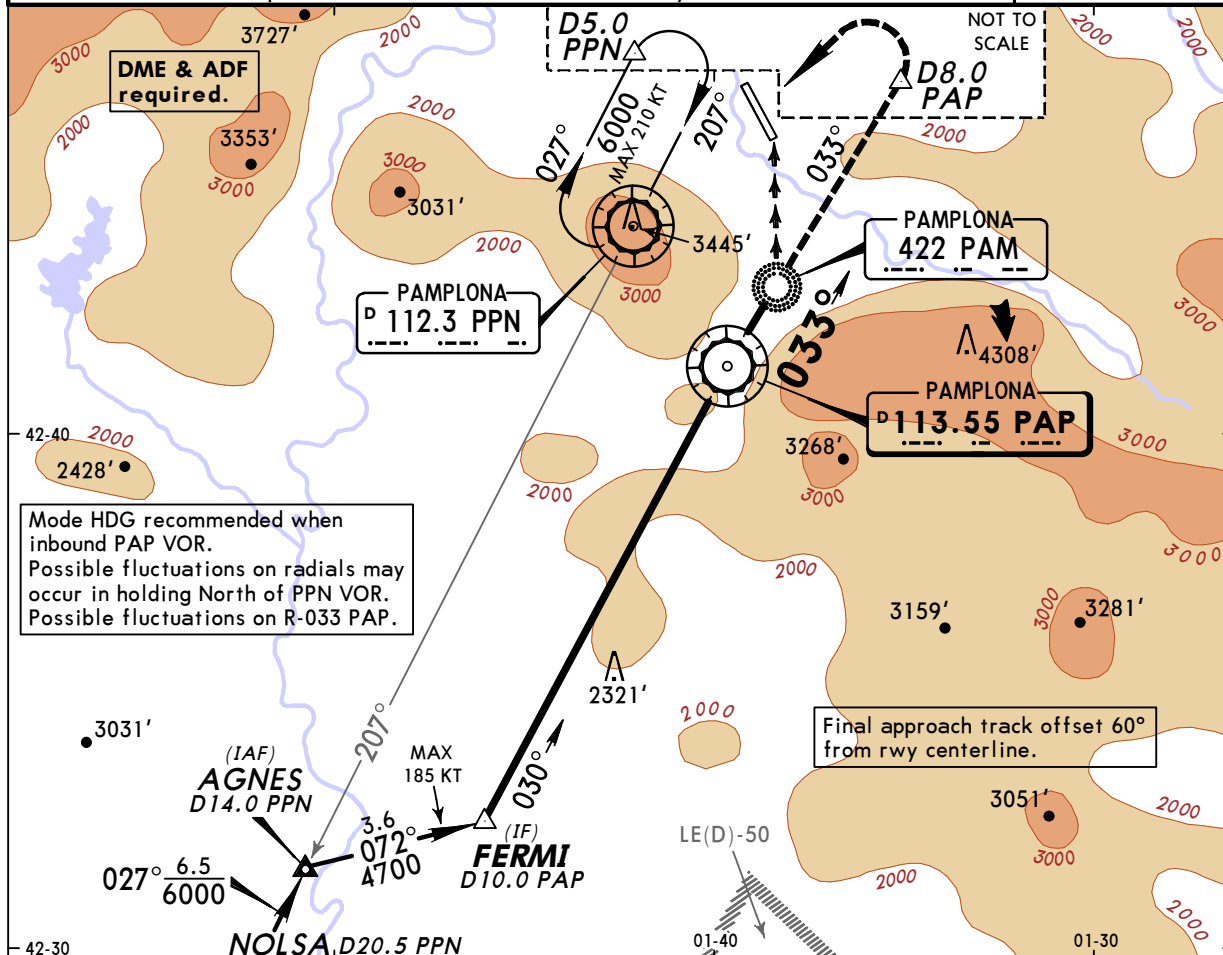
**LEPP/PNA**  
**PAMPLONA**

**JEPPESSEN**  
15 OCT 10  
Eff 21 Oct (13-3) CAT D

**PAMPLONA, SPAIN**  
**VOR C Rwy 33**

BRIEFING STRIP

|                                                                                                                             |                           |                                         |                         |                  |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------|-------------------------|------------------|-------------------------------------------------------------------------------------|
| Approach Control through Tower<br>*PAMPLONA Tower<br>118.2                                                                  |                           |                                         |                         | *Ground<br>121.7 |                                                                                     |
| VOR<br>PAP<br>113.55                                                                                                        | Final<br>Apch Crs<br>033° | Minimum Alt<br>PAP VOR<br>4700' (3195') | MDA(H)<br>4700' (3195') | Apt Elev 1505'   |  |
| MISSED APCH: Climb on R-033 PAP VOR to D8.0 PAP, then climbing turn LEFT (MAX 185 KT) to PPN VOR and join holding at 6000'. |                           |                                         |                         |                  |                                                                                     |
| Alt Set: hPa                                                                                                                |                           | Apt Elev: 54 hPa                        | Trans level: By ATC     | Trans alt: 6000' |                                                                                     |
| MSA PPN VOR                                                                                                                 |                           |                                         |                         |                  |                                                                                     |



|                        |  |  |  |                                   |  |          |            |
|------------------------|--|--|--|-----------------------------------|--|----------|------------|
| TO DISPLACED THRESHOLD |  |  |  | Lighting - Refer to Airport Chart |  | D8.0 PAP | PAP 113.55 |
| MAP at NDB             |  |  |  |                                   |  | ↑        | R-033      |

| Standard |                | STRAIGHT-IN LANDING |  | CIRCLE-TO-LAND             |                              |
|----------|----------------|---------------------|--|----------------------------|------------------------------|
|          |                |                     |  | Not authorized West of rwy |                              |
|          |                |                     |  | Max<br>Kts                 | _____ MDA(H) _____ VIS _____ |
| A        | NOT AUTHORIZED |                     |  | A                          | NOT APPLICABLE               |
| B        |                |                     |  | B                          |                              |
| C        |                |                     |  | C                          |                              |
| D        |                |                     |  | 205                        |                              |
|          |                |                     |  | 4700' (3195')              | 3600m                        |

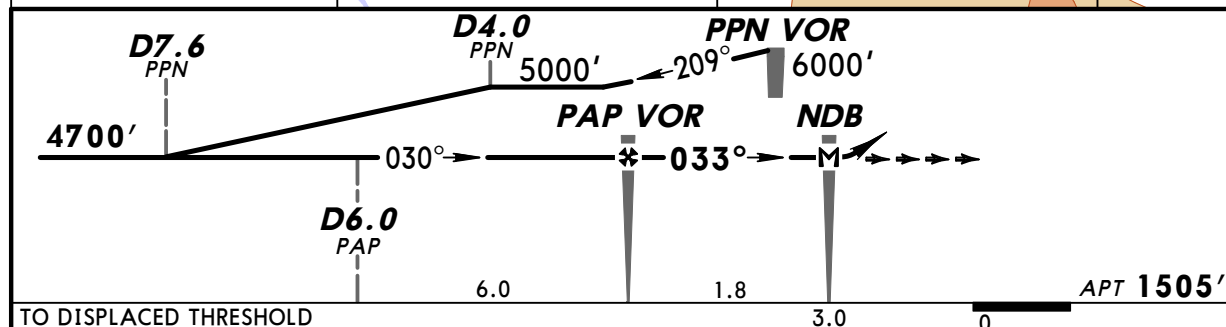
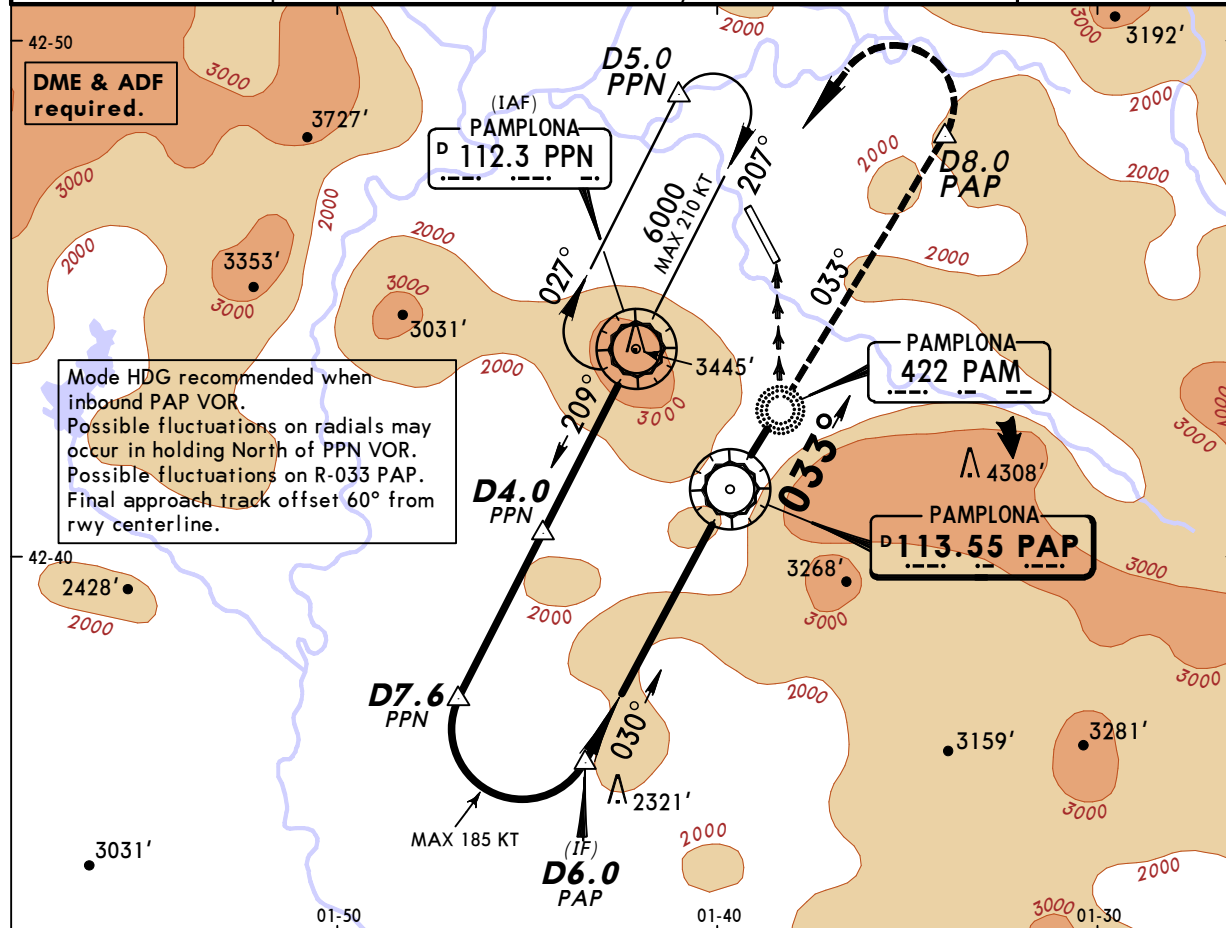
**LEPP/PNA**  
**PAMPLONA**

**JEPPESEN**  
15 OCT 10  
Eff 21 Oct 13-4 CAT D

**PAMPLONA, SPAIN**  
**VOR D Rwy 33**

BRIEFING STRIP

|                                                                                                                                    |                                  |                                                |                                |                       |  |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|--------------------------------|-----------------------|--|
| Approach Control through Tower<br>*PAMPLONA Tower<br>118.2                                                                         |                                  |                                                |                                | *Ground<br>121.7      |  |
| VOR<br>PAP<br><b>113.55</b>                                                                                                        | Final<br>Apch Crs<br><b>033°</b> | Minimum Alt<br>PAP VOR<br><b>4700'</b> (3195') | MDA(H)<br><b>4700'</b> (3195') | Apt Elev <b>1505'</b> |  |
| <b>MISSED APCH:</b> Climb on R-033 PAP VOR to D8.0 PAP, then climbing turn LEFT (MAX 185 KT) to PPN VOR and join holding at 6000'. |                                  |                                                |                                |                       |  |
| Alt Set: hPa                                                                                                                       | Apt Elev: 54 hPa                 | Trans level: By ATC                            | Trans alt: 6000'               | MSA PPN VOR           |  |



|                        |  |  |  |  |                                   |  |                   |
|------------------------|--|--|--|--|-----------------------------------|--|-------------------|
| TO DISPLACED THRESHOLD |  |  |  |  | Lighting - Refer to Airport Chart |  | D8.0 PAP on R-033 |
| MAP at NDB             |  |  |  |  |                                   |  |                   |

|          |  |  |  |                     |  |  |  |                            |  |  |  |
|----------|--|--|--|---------------------|--|--|--|----------------------------|--|--|--|
| Standard |  |  |  | STRAIGHT-IN LANDING |  |  |  | CIRCLE-TO-LAND             |  |  |  |
|          |  |  |  |                     |  |  |  | Not authorized West of rwy |  |  |  |
|          |  |  |  |                     |  |  |  | Max Kts. MDA(H) VIS        |  |  |  |
|          |  |  |  |                     |  |  |  | A NOT APPLICABLE           |  |  |  |
|          |  |  |  |                     |  |  |  | B NOT APPLICABLE           |  |  |  |
|          |  |  |  |                     |  |  |  | C NOT APPLICABLE           |  |  |  |
|          |  |  |  |                     |  |  |  | D 205 4700' (3195') 3600m  |  |  |  |

PANS OPS 4