

## RADIOAYUDAS PARA LA NAVEGACIÓN - EN RUTA

La cobertura nominal de cada radioayuda está de acuerdo con lo indicado en el Anexo 10 (VOL 1) de OACI cubriendo los niveles y distancias requeridos operacionalmente. Se indica en el apartado de observaciones cualquier diferencia con respecto al valor nominal.

Se pueden consultar las coordenadas de todas las radioayudas incluyendo las de los componentes/equipos, sin redondear, accediendo a <https://insignia.enaire.es/> en las tablas «Radioayudas» y «Equipos».

| ESTACIÓN<br>(VAR/AÑO)               | ID  | FREQ CH               | HR  | COORD<br>(ELEV)            | relevancia FRA | OBSERVACIONES  |
|-------------------------------------|-----|-----------------------|-----|----------------------------|----------------|--|
| ALBACETE<br>TACAN<br>(1°E 2025)     | TAB | CH 17X                | H24 | 385644.6N 0015148.4W (690) |                | TACAN:<br>Ministerio de Defensa.<br>Ver // See AD 2-LEAB.                      |
| ALBACETE<br>DVOR/DME<br>(1°E 2025)  | VAB | 115.80 MHz<br>CH 105X | H24 | 385649.6N 0015133.5W (690) |                | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEAB.                                 |
| ALCANTARILLA<br>TACAN<br>(1°E 2025) | TRL | CH 113X               | H24 | 375701.1N 0011348.2W (90)  |                | TACAN:<br>Ministerio de Defensa.<br>Ver // See AD 2-LERI.                      |
| ALICANTE<br>DVOR/DME<br>(1°E 2025)  | ATE | 114.65 MHz<br>CH 93Y  | H24 | 381710.2N 0003512.0W (60)  |                | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEAL.                                 |
| ALMERÍA<br>L<br>(1°E 2025)          | AM  | 284.00 kHz            | H24 | 365233.0N 0021423.6W       |                | L:<br>ENAIRES.<br>Ver // See AD 2-LEAM.  |
| ALMERÍA<br>NDB<br>(1°E 2025)        | AMN | 310.00 kHz            | H24 | 365054.1N 0022241.5W       |                | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEAM.                                      |
| ALMERÍA<br>VOR/DME<br>(1°E 2025)    | AMR | 114.10 MHz<br>CH 88X  | H24 | 364959.4N 0021533.9W (90)  | (IAD)          | (AD): LEMI, LELC<br>VOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEAM.              |
| ALTET<br>VOR/DME<br>(1°E 2025)      | ALT | 113.80 MHz<br>CH 85X  | H24 | 381605.8N 0003412.4W (60)  | (IAD)          | (AD): LEVC<br>(A): LELC, LEMI<br>VOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEAL. |
| ANDRAITX<br>NDB<br>(2°E 2025)       | ADX | 384.00 kHz            | H24 | 393258.0N 0022345.1E       | (I)            | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEPA/LESJ.                                 |
| ASTURIAS<br>NDB<br>(0° 2025)        | AV  | 387.00 kHz            | H24 | 433220.7N 0055549.9W       |                | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEAS.                                      |

| ESTACIÓN<br>(VAR/AÑO)              | ID  | FREQ<br>CH                  | HR  | COORD<br>(ELEV)                   | relevancia<br>FRA | OBSERVACIONES   |
|------------------------------------|-----|-----------------------------|-----|-----------------------------------|-------------------|---|
| ASTURIAS<br>DVOR/DME<br>(0° 2025)  | VES | 112.40<br>MHz<br>CH 71X     | H24 | 433325.4N<br>0060025.5W<br>(120)  | (I)               | DVOR/DME:<br><br>ENAIRES<br>Ver // See AD 2-LEAS.   |
| BADAJOS<br>DVOR/DME<br>(0° 2025)   | VBZ | 116.80<br>MHz<br>CH<br>115X | H24 | 385323.5N<br>0064856.8W<br>(180)  |                   | DVOR/DME:<br><br>ENAIRES<br>Ver // See AD 2-LEBZ.   |
| BAGUR<br>DVOR/DME<br>(2°E 2025)    | BGR | 112.20<br>MHz<br>CH 59X     | H24 | 415651.7N<br>0031231.9E (330)     | (I)               | DVOR/DME:<br><br>ENAIRES<br>COV 40 NM AVBL BTN:<br>- R-070/R-220 a // at 2500 ft AMSL o // or ABV;<br>- R-220/R-250 a // at 3400 ft AMSL o // or ABV;<br>- R-250/R-300 a // at 6600 ft AMSL o // or ABV.<br><br>DOR:<br>R-340 posibles oscilaciones a // possible oscillations at<br>FL100 or BLW BTN 31 NM & KANIG.  |
| BAILÉN<br>VOR/DME<br>(1°E 2025)    | BLN | 116.20<br>MHz<br>CH<br>109X | H24 | 380909.2N<br>0033729.0W<br>(540)  | (IAD)             | (AD): LEGR, LEMG<br>(A): LEZL, LEMO<br>VOR/DME:<br><br>ENAIRES<br><br>VOR:<br>COV 40 NM AVBL BTN:<br>- R-020/R-080 a // at 6000 ft AMSL,<br>- R-080/R-150 a // at 8000 ft AMSL,<br>- R-150/R-180 a // at 9000 ft AMSL,<br>- R-180/R-330 a // at 6000 ft AMSL,<br>- R-330/R-020 a // at 8000 ft AMSL,<br>- R-196 posibles oscilaciones de más de // possible<br>oscillations more than 3° BTN 30-33 NM.<br>R-004: error de marcación superior a 2° FM 29 NM a<br>FL100 (solape con VTB AVBL). // azimuth error greater<br>than 2° FM 29 NM at FL100 (AVBL VTB overlap).<br>DME:<br><br>COV 40 NM AVBL BTN:<br>- R-020/R-080 a // at 7000 ft AMSL,<br>- R-080/R-150 a // at 8000 ft AMSL,<br>- R-150/R-180 a // at 10000 ft AMSL,<br>- R-180/R-330 a // at 6000 ft AMSL,<br>- R-330/R-020 a // at 8500 ft AMSL. |
| BARAHONA<br>DVOR/DME<br>(1°E 2025) | BAN | 112.80<br>MHz<br>CH 75X     | H24 | 411924.8N<br>0023747.2W<br>(1140) | (IA)              | (A): LETO<br>DVOR/DME:<br><br>ENAIRES<br>Ver // See AD 2-LEMD.  |
| BARAJAS<br>DVOR/DME<br>(1°E 2025)  | BRA | 116.45<br>MHz<br>CH<br>111Y | H24 | 402808.9N<br>0033327.1W<br>(600)  |                   | DVOR/DME:<br><br>ENAIRES<br>Ver // See AD 2-LEMD.   |

| ESTACIÓN<br>(VAR/AÑO)                                  | ID  | FREQ<br>CH                  | HR  | COORD<br>(ELEV)                  | relevancia<br>FRA | OBSERVACIONES  |
|--|-----|-----------------------------|-----|----------------------------------|-------------------|--|
| BARCELONA<br>DVOR/DME<br>(2°E 2025)                    | BCN | 116.70<br>MHz<br>CH<br>114X | H24 | 411825.7N<br>0020628.1E (0)      | (ID)              | (D): LERS<br>DVOR/DME:<br><br>ENAIRES.<br>Ver // See AD 2-LEBL.  |
| BÁRDENAS<br>REALES<br>TACAN<br>(1°E 2025)              | TBR | CH 23X                      | H24 | 421148.8N<br>0012832.7W<br>(300) |                   | TACAN:<br><br>Ministerio de Defensa.   |
| BÉTERA<br>NDB<br>(1°E 2025)                            | EBT | 362.00<br>kHz               | H24 | 393731.9N<br>0002819.4W          |                   | NDB:<br><br>Ministerio de Defensa.<br>Ver // See AD 3-LEBT.  |
| BIARRITZ<br>BAYONNE<br>ANGLET<br>VOR/DME<br>(1°E 2025) | BTZ | 114.15<br>MHz<br>CH 88Y     |     | 432800.0N<br>0013037.0W<br>(300) |                   | VOR/DME:<br><br>Ver // See AIP Francia.  |
| BILBAO<br>DVOR/DME<br>(1°E 2025)                       | BLV | 117.65<br>MHz<br>CH<br>123Y | H24 | 431815.1N<br>0025531.3W<br>(30)  | (IAD)             | (AD): LERJ, LESO, LEXJ, LEVT<br>DVOR/DME:<br><br>ENAIRES.<br>Ver // See AD 2-LEBB.   |
| BURGOS<br>VOR/DME<br>(1°E 2025)                        | BUR | 111.40<br>MHz<br>CH 51X     | H24 | 422117.9N<br>0033648.9W<br>(900) |                   | VOR/DME:<br><br>ENAIRES.<br>Ver // See AD 2-LEBG.  |
| CÁCERES<br>DVOR/DME<br>(0° 2025)                       | CCS | 114.20<br>MHz<br>CH 89X     | H24 | 393128.2N<br>0062605.0W<br>(420) | (IAD)             | (A): LEBZ<br>(D): LEMD, LETO<br>Obligatorio para el cruce del BDRY //Compulsory for<br>BDRY crossing : ODD FL FM LECM TO LPPC FL245-<br>FL660,EVEN FL FM LPPC TO LECM FL245-FL660.<br>BDRY ATS DELEGATION<br>(LECMDLGLP)<br>DVOR/DME:<br><br>ENAIRES.<br>COV 40 NM AVBL BTN:<br>- R-010/R-160 a // at 5000 ft AMSL o // or ABV,<br>- R-160/R-010 a // at 3500 ft AMSL o // or ABV.<br>R-064 COV 113 NM a // at 9000 ft AMSL o // or ABV. |

| ESTACIÓN<br>(VAR/AÑO)                      | ID  | FREQ<br>CH               | HR                                | COORD<br>(ELEV)                | relevancia<br>FRA | OBSERVACIONES  |
|--|-----|--------------------------|-----------------------------------|--------------------------------|-------------------|--|
| CALAMOCHA<br>VOR/DME<br>(1°E 2025)         | CMA | 116.00<br>MHz<br>CH 107X | H24                               | 405202.3N<br>0011753.0W (960)  | (ID)              | (D): LEZG<br>VOR/DME:<br>ENAIRES.<br>COV 40 NM NO AVBL BTN:<br>- R-350/R-040 BLW 6000 ft AMSL.<br>- R-040/R-100 BLW 9000 ft AMSL.<br>- R-100/R-350 BLW 10000 ft AMSL.<br>VOR:<br>R-088 COV AVBL a // at FL100 TIL 49<br>NM, FL120 TIL 70 NM.<br>DME:<br>R-088 COV AVBL a // at FL100 TIL 41.5<br>NM. |
| CALELLA<br>DVOR/DME<br>(2°E 2025)          | CLE | 115.35<br>MHz<br>CH 100Y | H24                               | 413824.1N<br>0023804.9E (420)  |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEBL.   |
| CALLES<br>DVOR/DME<br>(1°E 2025)           | CLS | 117.55<br>MHz<br>CH 122Y | H24                               | 394225.8N<br>0005910.8W (570)  | (I)               | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEVC.   |
| CAPDEPERA<br>DVOR/DME<br>(2°E 2025)        | CDP | 112.90<br>MHz<br>CH 76X  | H24                               | 394151.7N<br>0032603.7E (240)  | (I)               | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEPA/LESJ.  |
| CASTEJÓN<br>DVOR/DME<br>(1°E 2025)         | CJN | 115.60<br>MHz<br>CH 103X | H24                               | 402219.1N<br>0023240.6W (1080) | (IA)              | (A): LEGT<br>DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEMD.  |
| CASTELLÓN<br>DVOR/DME<br>(1°E 2025)        | CTN | 117.05<br>MHz<br>CH 117Y | DVOR:<br>HR<br>ATS<br>DME:<br>H24 | 401307.7N 0000521.1E<br>(360)  |                   | DVOR/DME:<br>AD LECH.<br>Ver // See AD 2-LECH.   |
| CEUTA<br>DME                               | CEU | CH 124Y                  | H24                               | 355333.0N<br>0051819.0W (0)    |                   | DME:<br>ENAIRES.<br>Ver // See AD 3-GECE.  |
| COLMENAR<br>VIEJO<br>DVOR/DME<br>(0° 2025) | CNR | 117.30<br>MHz<br>CH 120X | H24                               | 403845.5N<br>0034409.0W (810)  |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEMD.   |

| ESTACIÓN<br>(VAR/AÑO)                   | ID  | FREQ<br>CH               | HR  | COORD<br>(ELEV)               | relevancia<br>FRA | OBSERVACIONES  |
|---|-----|--------------------------|-----|-------------------------------|-------------------|--|
| COLMENAR<br>VIEJO<br>NDB<br>(0° 2025)   | ECV | 319.00<br>kHz            | H24 | 404158.8N<br>0034546.1W       |                   | NDB:<br>Ministerio de Defensa.<br>Ver // See AD 3-LECV.  |
| CÓRDOBA<br>DVOR/DME<br>(0° 2025)        | CDB | 112.40<br>MHz<br>CH 71X  | H24 | 375049.8N<br>0045053.3W (90)  |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEBA.   |
| COSTIX<br>NDB<br>(2°E 2025)             | CST | 351.00<br>kHz            | H24 | 393829.0N<br>0025456.2E       |                   | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEPA/LESJ.   |
| DAKHLA<br>VOR/DME<br>(4°W 2025)         | DKH | 115.80<br>MHz<br>CH 105X |     | 234441.4N<br>0155511.4W       | (I)               | VOR/DME:<br>Ver // See AIP Marruecos.  |
| DOMINGO<br>DVOR/DME<br>(1°E 2025)       | DGO | 112.60<br>MHz<br>CH 73X  | H24 | 422711.9N<br>0025250.5W (660) | (IAD)             | (AD): LEPP<br>(D): LERJ, LEBG<br>(A): LEBB, LEZG, LESO<br>DVOR/DME:<br>ENAIRES.<br>DME:<br>R-188: FL100 COV 27 NM; FL120 COV 34<br>NM (solape con // overlap with RBO) |
| EL HIERRO<br>NDB<br>(4°W 2025)          | HIE | 376.00<br>kHz            | H24 | 274858.2N<br>0175311.0W       | (IAD)             | (AD): GCXO, GCTS, GCLP, GCLA<br>NDB:<br>ENAIRES.<br>Ver // See AD 2-GCHI.  |
| EL HIERRO<br>DME                        | HR  | 113.20<br>MHz<br>CH 79X  | H24 | 274857.8N<br>0175311.2W (30)  |                   | DME:<br>ENAIRES.<br>Ver // See AD 2-GCHI.  |
| EL PRAT<br>DVOR/DME<br>(2°E 2025)       | PRA | 114.30<br>MHz<br>CH 90X  | H24 | 411659.2N<br>0020454.7E (0)   |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEBL.   |
| FUERTEVENTURA<br>DVOR/DME<br>(3°W 2025) | FTV | 114.10<br>MHz<br>CH 88X  | H24 | 282550.8N<br>0135152.2W (0)   |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-GCFV.   |
| FUERTEVENTURA<br>DME                    | FUE | 108.00<br>MHz<br>CH 17X  | H24 | 282256.9N<br>0135158.2W (30)  |                   | DME:<br>ENAIRES.<br>Ver // See AD 2-GCFV.  |
| GERONA<br>NDB<br>(2°E 2025)             | G   | 330.00<br>kHz            | H24 | 415535.0N<br>0024612.6E       |                   | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEGE.  |
| GERONA<br>DVOR/DME<br>(2°E 2025)        | GIR | 114.10<br>MHz<br>CH 88X  | H24 | 415552.5N<br>0024618.7E (150) | (IA)              | (A): LERS<br>DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEGE.  |

| ESTACIÓN<br>(VAR/AÑO)                         | ID  | FREQ CH                  | HR       | COORD<br>(ELEV)               | relevancia<br>FRA | OBSERVACIONES   |
|---|-----|--------------------------|----------|-------------------------------|-------------------|---|
| GERONA<br>NDB<br>(2°E 2025)                   | GRN | 412.00<br>kHz            | H24      | 420129.9N 0024826.0E          |                   | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEGE. <<  |
| GETAFE<br>NDB<br>(0° 2025)                    | GE  | 421.00<br>kHz            | H24      | 401159.2N 0035039.4W          |                   | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEGT. <<  |
| GETAFE<br>DVOR/TACAN<br>(1°E 2025)            | VEG | 112.05<br>MHz<br>CH 57Y  | H24      | 401723.3N 0034334.4W<br>(630) |                   | DVOR/TACAN:<br>ENAIRES.<br>Ver // See AD 2-LEGT. <<   |
| GIBRALTAR<br>TACAN<br>(0° 2025)               | GBR | CH 83X                   |          | 360834.0N 0052033.0W          |                   | TACAN:<br>ENAIRES.  |
| GRAN CANARIA<br>DVOR/DME<br>(3°W 2025)        | GDV | 112.90<br>MHz<br>CH 76X  | H24      | 280437.5N 0152544.4W<br>(240) | (IAD)             | (AD): GCRR, GCFV, GCXO, GCTS<br>DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-GCLP. <<                                     |
| GRAN CANARIA<br>SUR<br>DVOR/DME<br>(4°W 2025) | LPC | 115.00<br>MHz<br>CH 97X  | H24      | 274942.7N 0152556.1W<br>(60)  |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-GCLP. <<   |
| GRANADA<br>DVOR/DME<br>(0° 2025)              | GDA | 113.40<br>MHz<br>CH 81X  | H24      | 371059.4N 0035927.3W<br>(600) |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEGR. <<   |
| GRANADA<br>L<br>(0° 2025)                     | GRA | 412.00<br>kHz            | HR<br>AD | 371121.7N 0034039.8W          |                   | L:<br>ENAIRES.<br>Ver // See AD 2-LEGR. <<  |
| GRANADA OESTE<br>L<br>(0° 2025)               | GR  | 285.00<br>kHz            | H24      | 371117.7N 0035027.6W          |                   | L:<br>ENAIRES.<br>Ver // See AD 2-LEGR. <<  |
| HINOJOSA DEL<br>DUQUE<br>VOR/DME<br>(0° 2025) | HIJ | 114.70<br>MHz<br>CH 94X  | H24      | 383029.3N 0050558.9W<br>(570) | (IAD)             | (AD): LEJR, LEZL, LEBZ, LEMO<br>(D): LERT<br>VOR/DME:<br>ENAIRES.<br>VOR:<br>R-026 COV 50 NM a // at 7500 ft<br>AMSL. |
| HUESCA<br>DVOR/DME<br>(1°E 2025)              | HUE | 114.55<br>MHz<br>CH 92Y  | H24      | 420424.1N 0001907.7W<br>(540) |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEHC. <<   |
| IBIZA<br>VOR/DME<br>(2°E 2025)                | IBA | 117.80<br>MHz<br>CH 125X | H24      | 385206.0N 0012157.4E<br>(0)   | (I)               | VOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEIB. <<  |

| ESTACIÓN<br>(VAR/AÑO)               | ID  | FREQ CH                  | HR  | COORD<br>(ELEV)               | relevancia<br>FRA | OBSERVACIONES  |
|-------------------------------------|-----|--------------------------|-----|-------------------------------|-------------------|--|
| IBIZA<br>NDB<br>(2°E 2025)          | IZA | 394.00<br>kHz            | H24 | 385455.7N 0012813.5E          | (I)               | NDB:<br>ENAIRE.<br>Ver // See AD 2-LEIB.                 |
| ILERDA<br>DVOR/DME<br>(2°E 2025)    | LLE | 113.60<br>MHz<br>CH 83X  | H24 | 414347.2N 0003138.6E<br>(360) |                   | DVOR/DME:<br>AD LEDA.<br>Ver // See AD 2-LEDA.           |
| JEREZ<br>NDB<br>(0° 2025)           | JER | 433.00<br>kHz            | H24 | 365004.1N 0060058.4W          |                   | NDB:<br>ENAIRE.<br>Ver // See AD 2-LEJR.                 |
| JEREZ<br>DVOR/DME<br>(0° 2025)      | JRZ | 113.00<br>MHz<br>CH 77X  | H24 | 364854.7N 0060135.5W<br>(90)  |                   | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LEJR.            |
| LA AYOUNE<br>VOR/DME<br>(3°W 2025)  | LAY | 112.10<br>MHz<br>CH 58X  |     | 270834.3N 0131304.6W          | (IA)              | (A): GCLP, GCTS<br>VOR/DME:<br>Ver // See AIP Marruecos. |
| LA CORUÑA<br>L<br>(1°W 2025)        | C   | 410.00 kHz               | H24 | 431925.2N 0082139.0W          |                   | L:<br>ENAIRE.<br>Ver // See AD 2-LECO.                   |
| LA CORUÑA<br>NDB<br>(1°W 2025)      | COA | 401.00 kHz               | H24 | 432156.1N 0081942.3W          |                   | NDB:<br>ENAIRE.<br>Ver // See AD 2-LECO.                 |
| LA CORUÑA<br>DVOR/DME<br>(1°W 2025) | LRA | 115.10<br>MHz<br>CH 98X  | H24 | 432346.2N 0081824.5W<br>(120) |                   | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LECO.            |
| LA GOMERA<br>DVOR/DME<br>(4°W 2025) | LGM | 116.00<br>MHz<br>CH 107X | H24 | 280143.5N 0171253.6W<br>(210) |                   | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-GCGM.            |
| LA PALMA<br>DME                     | BV  | 112.40<br>MHz<br>CH 71X  | H24 | 283606.3N 0174524.3W<br>(60)  |                   | DME:<br>ENAIRE.<br>Ver // See AD 2-GCLA.                 |
| LA PALMA<br>NDB<br>(4°W 2025)       | BX  | 389.00<br>kHz            | H24 | 283606.1N 0174524.6W          |                   | NDB:<br>ENAIRE.<br>Ver // See AD 2-GCLA.                 |
| LANZAROTE<br>DVOR/DME<br>(3°W 2025) | LZR | 115.20<br>MHz<br>CH 99X  | H24 | 290957.6N 0133038.6W<br>(540) | (I)               | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-GCRR.            |

| ESTACIÓN<br>(VAR/AÑO)                               | ID  | FREQ CH                  | HR       | COORD<br>(ELEV)                | relevancia<br>FRA | OBSERVACIONES   |
|---|-----|--------------------------|----------|--------------------------------|-------------------|---|
| LEÓN<br>DVOR/DME<br>(0° 2025)                       | EON | 112.00<br>MHz<br>CH 57X  | H24      | 423537.6N<br>0053846.1W (930)  |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LELN.  |
| LÉRIDA<br>NDB<br>(2°E 2025)                         | LRD | 404.00<br>kHz            | H24      | 413310.5N<br>0003852.9E        | (I)               | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEDA.   |
| LOGROÑO<br>NDB<br>(1°E 2025)                        | EAG | 399.00<br>kHz            | HR<br>AD | 422705.0N<br>0021852.9W        |                   | NDB:<br>Ministerio de Defensa.<br>Ver // See AD 3-LELO.   |
| LOGROÑO<br>DVOR/DME<br>(1°E 2025)                   | LPA | 115.45<br>MHz<br>CH 101Y | H24      | 422737.9N<br>0021936.9W (360)  | (I)               | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LERJ & AD 3-<br>LELO.  |
| MAELLA<br>DVOR/DME<br>(1°E 2025)                    | MLA | 112.10<br>MHz<br>CH 58X  | H24      | 410746.5N<br>0000954.9E (360)  | (IA)              | (A): LEZG<br>DVOR/DME:<br>ENAIRES.<br>COV 40 NM AVBL BTN:<br>- R-030/130 a // at 6000 ft AMSL o<br>// or ABV;<br>- R-130/200 a // at 8500 ft AMSL o<br>// or ABV;<br>- R-200/280 a // at 6000 ft AMSL o<br>// or ABV;<br>- R-280/030 a // at 4500 ft AMSL o<br>// or ABV. |
| MÁLAGA<br>DVOR/DME<br>(0° 2025)                     | MGA | 112.00<br>MHz<br>CH 57X  | H24      | 364851.5N<br>0042210.5W (1020) | (IAD)             | (AD): LEJR, LEGR, LEMO, LERT<br>DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEMG.  |
| MÁLAGA<br>AEROPUERTO NORTE<br>DVOR/DME<br>(0° 2025) | AGP | 117.15<br>MHz<br>CH 118Y | H24      | 364103.6N<br>0042914.4W (0)    |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEMG.  |
| MÁLAGA<br>AEROPUERTO SUR<br>DVOR/DME<br>(0° 2025)   | MLG | 113.55<br>MHz<br>CH 82Y  | H24      | 364043.5N<br>0043023.9W (30)   |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEMG.  |
| MALLORCA<br>DVOR/DME<br>(2°E 2025)                  | MJV | 113.30<br>MHz<br>CH 80X  | H24      | 392606.7N<br>0024529.9E (150)  | (ID)              | (D): LEMH<br>DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEPA/LESJ.  |

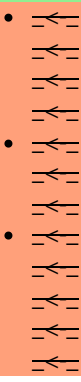
| ESTACIÓN<br>(VAR/AÑO)                            | ID  | FREQ CH                  | HR  | COORD<br>(ELEV)               | relevancia<br>FRA | OBSERVACIONES   |
|--|-----|--------------------------|-----|-------------------------------|-------------------|---|
| MARTÍN<br>DVOR/DME<br>(0° 2025)                  | MAR | 112.60<br>MHz<br>CH 73X  | H24 | 370319.1N 0045623.6W<br>(690) | (IAD)             | (AD): LEGR, LEZL<br>(A): LEJR, LEMO<br>DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEMG. <<< |
| MELILLA<br>DVOR/DME<br>(1°E 2025)                | MEL | 114.25<br>MHz<br>CH 89Y  | H24 | 351649.6N 0025729.4W<br>(60)  |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-GEML. <<<  |
| MELILLA<br>DME                                   | MLL | 117.40<br>MHz<br>CH 121X | H24 | 351826.6N 0025719.5W<br>(120) |                   | DME:<br>ENAIRES.<br>Ver // See AD 2-GEML & AD 3-<br>GEHM. <<<                             |
| MENORCA<br>DVOR/DME<br>(2°E 2025)                | MHN | 112.60<br>MHz<br>CH 73X  | H24 | 395149.0N 0041258.7E<br>(90)  | (I)               | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEMH. <<<  |
| MENORCA<br>NDB<br>(2°E 2025)                     | MN  | 344.00<br>kHz            | H24 | 395011.3N 0041247.8E          |                   | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEMH. <<<   |
| MORÓN<br>VOR/DME<br>(0° 2025)                    | MRN | 115.50<br>MHz<br>CH 102X | H24 | 371030.2N 0053708.0W<br>(90)  |                   | VOR/DME:<br>Ministerio de Defensa.<br>Ver // See AD 2-LEMO.                               |
| MORÓN<br>TACAN<br>(0° 2025)                      | MRN | CH 100X                  | H24 | 371024.1N 0053714.1W<br>(90)  |                   | TACAN:<br>Ministerio de Defensa.<br>Ver // See AD 2-LEMO.                                 |
| MURCIA<br>DVOR/DME<br>(1°E 2025)                 | MUR | 114.85<br>MHz<br>CH 95Y  | H24 | 374806.5N 0010715.4W<br>(210) |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEMI. <<<  |
| NAVAS DEL REY<br>DVOR/DME<br>(0° 2025)           | NVS | 114.95<br>MHz<br>CH 96Y  | H24 | 402207.2N 0041457.9W<br>(780) | (I)               | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEMD. <<<  |
| PALMA DE<br>MALLORCA<br>NDB<br>(2°E 2025)        | PA  | 307.50<br>kHz            | H24 | 393557.7N 0024916.2E          |                   | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEPA/LESJ. <<<  |
| PALMA-SON SANT<br>JOAN<br>DVOR/DME<br>(2°E 2025) | JOA | 117.70<br>MHz<br>CH 124X | H24 | 393352.8N 0024447.9E<br>(0)   |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEPA/LESJ. <<<                                   |

| ESTACIÓN<br>(VAR/AÑO)                          | ID  | FREQ CH                  | HR  | COORD<br>(ELEV)                | relevancia<br>FRA | OBSERVACIONES   |
|--|-----|--------------------------|-----|--------------------------------|-------------------|---|
| PAMPLONA<br>DVOR/DME<br>(1°E 2025)             | PPN | 112.30<br>MHz<br>CH 70X  | H24 | 424401.5N 0014207.2W<br>(1050) | (IAD)             | (AD): LEVT, LEBB<br>(A): LEBG<br>(D): LESO<br>DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LEPP. |
| PAMPLONA SUR<br>DVOR/DME<br>(1°E 2025)         | PAP | 113.55<br>MHz<br>CH 82Y  | H24 | 424118.2N 0013938.8W<br>(570)  |                   | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LEPP.   |
| PERALES DE<br>TAJUÑA<br>DVOR/DME<br>(1°E 2025) | PDT | 116.95<br>MHz<br>CH 116Y | H24 | 401510.5N 0032052.9W<br>(780)  | (I)               | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LEMD.   |
| POLLENSA<br>DVOR/DME<br>(2°E 2025)             | POS | 116.40<br>MHz<br>CH 111X | H24 | 395538.8N 0030652.5E<br>(360)  | (IA)              | (A): LEIB<br>DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LEPA/LESJ & AD 2-LEPO.                 |
| PORTO COLOM<br>NDB<br>(2°E 2025)               | PTC | 401.00<br>kHz            | H24 | 392538.4N 0031524.2E           | (I)               | NDB:<br>ENAIRE.<br>Ver // See AD 2-LEPA/LESJ.   |
| REUS<br>DVOR/DME<br>(2°E 2025)                 | RES | 116.85<br>MHz<br>CH 115Y | H24 | 410837.7N 0010943.1E<br>(60)   |                   | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LERS.   |
| REUS<br>NDB<br>(2°E 2025)                      | RUS | 424.00<br>kHz            | H24 | 410852.2N 0010846.1E           |                   | NDB:<br>ENAIRE.<br>Ver // See AD 2-LERS.  |
| ROBLLEDILLO<br>DVOR/DME<br>(1°E 2025)          | RBO | 113.95<br>MHz<br>CH 86Y  | H24 | 405113.9N 0031447.9W<br>(960)  | (I)               | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LEMD.   |
| ROTA<br>TACAN<br>(0° 2025)                     | AOG | CH 23X                   | H24 | 363852.3N 0062056.6W<br>(30)   |                   | TACAN:<br>Ministerio de Defensa.<br>Ver // See AD 2-LERT.                                   |
| SABADELL<br>DVOR/DME<br>(2°E 2025)             | SLL | 112.00<br>MHz<br>CH 57X  | H24 | 413111.5N 0020635.1E<br>(150)  | (I)               | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LEBL & AD 2-LELL.                                   |
| SAGUNTO<br>NDB<br>(1°E 2025)                   | SGO | 356.00<br>kHz            | H24 | 394027.1N 0001228.1W           |                   | NDB:<br>ENAIRE.<br>Ver // See AD 2-LEVC & AD 3-LEBT.  |

| ESTACIÓN<br>(VAR/AÑO)                                   | ID  | FREQ CH                  | HR  | COORD<br>(ELEV)    |            | relevancia<br>FRA | OBSERVACIONES   |
|---|-----|--------------------------|-----|--------------------|------------|-------------------|---|
| SALAMANCA<br>VOR/DME<br>(0° 2025)                       | BBI | 112.20<br>MHz<br>CH 59X  | H24 | 410100.1N<br>(900) | 0052724.6W |                   | VOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LESA.  |
| SAN JAVIER<br>VOR/TACAN<br>(1°E 2025)                   | VSJ | 113.00<br>MHz<br>CH 77X  | H24 | 374647.1N<br>(30)  | 0004845.9W | (I)               | VOR/TACAN:<br>Ministerio de Defensa.<br>Ver // See AD 2-LELC.                                     |
| SAN SEBASTIÁN<br>DME                                    | HIG | 113.20<br>MHz<br>CH 79X  | H24 | 432310.6N<br>(120) | 0014744.7W |                   | DME:<br>ENAIRE.<br>Ver // See AD 2-LESO.  |
| SAN SEBASTIÁN<br>DVOR/DME<br>(1°E 2025)                 | SSN | 117.90<br>MHz<br>CH 126X | H24 | 431840.3N<br>(240) | 0014949.4W | (I)               | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LESO.   |
| SAN SEBASTIÁN DE LOS<br>REYES<br>DVOR/DME<br>(1°E 2025) | SSY | 117.85<br>MHz<br>CH 125Y | H24 | 403247.1N<br>(600) | 0033430.7W |                   | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LEMD.   |
| SANTANDER<br>NDB<br>(0° 2025)                           | SA  | 416.00<br>kHz            | H24 | 432606.2N          | 0035059.6W |                   | NDB:<br>ENAIRE.<br>Ver // See AD 2-LEXJ.  |
| SANTANDER<br>DVOR/DME<br>(0° 2025)                      | SNR | 115.30<br>MHz<br>CH 100X | H24 | 432659.2N<br>(60)  | 0035408.7W | (IAD)             | (AD): LEBB<br>DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LEXJ.                                       |
| SANTIAGO<br>L<br>(1°W 2025)                             | SO  | 390.00<br>kHz            | H24 | 425808.8N          | 0082622.8W |                   | L:<br>ENAIRE.<br>Ver // See AD 2-LEST.  |
| SANTIAGO<br>DVOR/DME<br>(1°W 2025)                      | STG | 116.40<br>MHz<br>CH 111X | H24 | 425536.7N<br>(390) | 0082531.4W | (I)               | DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LEST.   |
| SEVILLA<br>NDB<br>(0° 2025)                             | SPP | 420.00<br>kHz            | H24 | 372505.0N          | 0054743.8W |                   | NDB:<br>ENAIRE.<br>Ver // See AD 2-LEZL.  |
| SEVILLA<br>DVOR/DME<br>(0° 2025)                        | SVL | 113.70<br>MHz<br>CH 84X  | H24 | 372539.4N<br>(120) | 0054544.0W | (IAD)             | (AD): LEMG<br>(A): LEJR, LERT, LEBZ<br>(D): LEGR<br>DVOR/DME:<br>ENAIRE.<br>Ver // See AD 2-LEZL. |

| ESTACIÓN<br>(VAR/AÑO)                              | ID  | FREQ CH                  | HR  | COORD<br>(ELEV)                | relevancia<br>FRA | OBSERVACIONES  |
|--|-----|--------------------------|-----|--------------------------------|-------------------|--|
| TABANERA DEL<br>CERRATO<br>VOR/DME<br>(0° 2025)    | NEA | 116.75<br>MHz<br>CH 114Y | H24 | 420139.4N 0040632.9W<br>(900)  | (IAD)             | (AD): LEBG, LEVT, LEVD<br>(A): LERJ<br>VOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEMD.         |
| TENERIFE - LOS<br>RODEOS<br>DVOR/DME<br>(4°W 2025) | LRO | 116.20<br>MHz<br>CH 109X | H24 | 282905.7N 0162105.6W<br>(630)  |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-GCXO & AD 3-<br>GCXM.                               |
| TENERIFE NORTE<br>DVOR/DME<br>(4°W 2025)           | TFN | 117.70<br>MHz<br>CH 124X | H24 | 283212.6N 0161607.6W<br>(1020) | (IAD)             | (AD): GCLA<br>DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-GCXO & AD 3-<br>GCXM.                 |
| TENERIFE SUR<br>DVOR/DME<br>(4°W 2025)             | TFS | 116.40<br>MHz<br>CH 111X | H24 | 280008.8N 0164116.5W<br>(30)   | (I)               | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-GCTS.   |
| TOLEDO<br>DVOR/DME<br>(0° 2025)                    | TLD | 113.20<br>MHz<br>CH 79X  | H24 | 395810.1N 0042014.6W<br>(600)  | (IA)              | (A): LETO<br>DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEMD.                                  |
| TORRALBA DE<br>ARAGÓN<br>NDB<br>(1°E 2025)         | TON | 335.00<br>kHz            | H24 | 415540.4N 0003049.8W           |                   | NDB:<br>ENAIRES.<br>NDB:<br>COV 50 NM.   |
| TORREJÓN<br>TACAN<br>(1°E 2025)                    | TJZ | CH 72X                   | H24 | 402956.0N 0032643.8W<br>(600)  |                   | TACAN:<br>Ministerio de Defensa.<br>Ver // See AD 2-LETO.                                    |
| TORREJÓN<br>DVOR/DME<br>(1°E 2025)                 | VTZ | 115.10<br>MHz<br>CH 98X  | H24 | 402832.2N 0032819.3W<br>(660)  |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LETO.   |
| VALENCIA<br>DVOR/DME<br>(1°E 2025)                 | VLC | 116.10<br>MHz<br>CH 108X | H24 | 392908.3N 0002859.0W<br>(60)   | (IA)              | (A): LEAL<br>DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEVC.                                  |
| VEJER DE LA<br>FRONTERA<br>DVOR/DME<br>(0° 2025)   | VJF | 117.80<br>MHz<br>CH 125X | H24 | 361421.6N 0055831.8W<br>(210)  | (IAD)             | (AD): LEZL, LEMO<br>(A): LEMG<br>(D): LERT<br>DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEJR. |
| VIGO<br>DVOR/DME<br>(1°W 2025)                     | VGO | 113.60<br>MHz<br>CH 83X  | H24 | 421916.7N 0083605.9W<br>(270)  |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEVX.   |

| ESTACIÓN<br>(VAR/AÑO)                        | ID  | FREQ<br>CH               | HR  | COORD<br>(ELEV)                   | relevancia<br>FRA | OBSERVACIONES   |
|--|-----|--------------------------|-----|-----------------------------------|-------------------|---|
| VIGO<br>NDB<br>(1°W 2025)                    | VON | 433.00<br>kHz            | H24 | 421109.8N<br>0083820.4W           |                   | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEVX. <<  |
| VILAFRANCA<br>DVOR/DME<br>(2°E 2025)         | VLA | 113.15<br>MHz<br>CH 78Y  | H24 | 412033.5N<br>0013251.7E (660)     |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEBL. <<   |
| VILLANUEVA<br>NDB<br>(2°E 2025)              | VNV | 380.00<br>kHz            | H24 | 411238.3N<br>0014221.1E           | (I)               | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEBL. <<  |
| VILLATOBAS<br>DVOR/DME<br>(1°E 2025)         | VTB | 112.70<br>MHz<br>CH 74X  | H24 | 394650.7N<br>0032750.5W (720)     | (ID)              | (D): LEMD, LETO, LEGT<br>DVOR/DME:<br>ENAIRES.<br>DVOR:<br>COV 60 NM.   |
| VITORIA<br>VOR/DME<br>(1°E 2025)             | VRA | 116.60<br>MHz<br>CH 113X | H24 | 424354.8N<br>0025156.1W (570)     | (ID)              | (D): LEPP<br>VOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEVT. <<   |
| VITORIA<br>NDB<br>(1°E 2025)                 | VTA | 345.00<br>kHz            | H24 | 425541.1N<br>0024046.6W           |                   | NDB:<br>ENAIRES.<br>Ver // See AD 2-LEVT. <<  |
| VITORIA<br>FORONDA<br>DVOR/DME<br>(1°E 2025) | VFD | 112.90<br>MHz<br>CH 76X  | H24 | 425250.3N<br>0024327.7W (510)     |                   | DVOR/DME:<br>ENAIRES.<br>Ver // See AD 2-LEVT. <<   |
| YESTE<br>DVOR/DME<br>(1°E 2025)              | YES | 115.20<br>MHz<br>CH 99X  | H24 | 382138.8N<br>0022110.0W<br>(1440) | (ID)              | (D): LEAL<br>DVOR/DME:<br>ENAIRES.<br>DVOR:<br>R-052: pueden aparecer oscilaciones de aguja //<br>needle oscillations may appear BTN 9 NM-13 NM<br>DME a // at FL90.<br>DME:<br>R-226: COV 68 NM a // at FL100. |

| ESTACIÓN<br>(VAR/AÑO)             | ID  | FREQ<br>CH               | HR  | COORD<br>(ELEV)               | relevancia<br>FRA | OBSERVACIONES   |
|-----------------------------------|-----|--------------------------|-----|-------------------------------|-------------------|---|
| ZAMORA<br>DVOR/DME<br>(0° 2025)   | ZMR | 117.10<br>MHz<br>CH 118X | H24 | 413148.6N<br>0053822.9W (630) | (IAD)             | (AD): LEMD, LELN, LETO, LESA, LEVD<br>DVOR/DME:<br><b>ENAIRE.</b><br><ul style="list-style-type: none"> <li>• COV a // at 40 NM AVBL BTN: <ul style="list-style-type: none"> <li>- R-060/R-280 a // at 6000 ft AMSL o // or ABV,</li> <li>- R-280/R-340 a // at 8000 ft AMSL o // or ABV,</li> <li>- R-340/R-060 a // at 7000 ft AMSL o // or ABV.</li> </ul> </li> <li>• R-353 COV a // at: <ul style="list-style-type: none"> <li>- FL130 TIL 64 NM,</li> <li>- FL140 TIL 74 NM.</li> </ul> </li> <li>• R-291 COV a // at: <ul style="list-style-type: none"> <li>- FL110 TIL 65 NM,</li> <li>- FL120 TIL 75 NM,</li> <li>- FL140 TIL 82 NM.</li> </ul> </li> <li>- Posible pérdida de señal a partir de 82 NM. // Possible loss of signal from 82 NM.</li> </ul>  |
| ZARAGOZA<br>VOR/DME<br>(1°E 2025) | ZAR | 113.00<br>MHz<br>CH 77X  | H24 | 413928.4N<br>0010151.1W (270) | (I)               | VOR/DME:<br><b>ENAIRE.</b><br>Ver // See AD 2-LEZG.   |
| ZARAGOZA<br>NDB<br>(1°E 2025)     | ZRZ | 389.00<br>kHz            | H24 | 414349.9N<br>0011136.0W       |                   | NDB:<br><b>ENAIRE.</b><br>Ver // See AD 2-LEZG.   |
| ZARAGOZA<br>TACAN<br>(1°E 2025)   | ZZA | CH 64X                   | H24 | 414037.6N<br>0010330.6W (240) |                   | TACAN:<br>Ministerio de Defensa.<br>Ver // See AD 2-LEZG.   |

RADIOAYUDAS PARA LA NAVEGACIÓN - EN RUTA