

DECLINACIÓN MAGNÉTICA Y VARIACIÓN ANUAL DE AERÓDROMOS Y HELIPUERTOS (2020)  
MAGNETIC VARIATION AND ANNUAL CHANGE OF AERODROMES AND HELIPTS (2020)

| TIPO<br>TYPE | NOMBRE<br>NAME                                | COORDENADAS<br>COORDINATES | DECLINACIÓN MAGNÉTICA<br>MAGNETIC VARIATION | VARIACIÓN ANUAL<br>ANNUAL CHANGE |
|--------------|---|----------------------------|---|----------------------------------|
| AD           | A CORUÑA                                      | 431807N 0082238W           | 2°13'W                                      | 9.2'E                            |
| AD           | ALBACETE                                      | 385655N 0015148W           | 0°12'E                                      | 7.6'E                            |
| HEL          | ALGECIRAS                                     | 360744N 0052628W           | 0°49'W                                      | 7.6'E                            |
| AD           | ALICANTE/Alicante-Elche Miguel Hernández      | 381656N 0003329W           | 0°32'E                                      | 7.2'E                            |
| AD           | ALMERÍA                                       | 365038N 0022212W           | 0°01'E                                      | 7.2'E                            |
| AD           | ANDORRA-LA SEU D'URGELL                       | 422046N 0012453E           | 0°58'E                                      | 7.8'E                            |
| AD           | ASTURIAS                                      | 433349N 0060205W           | 1°26'W                                      | 8.9'E                            |
| AD           | BADAJOS/Talavera La Real                      | 385329N 0064917W           | 1°25'W                                      | 8.4'E                            |
| AD           | BARCELONA/Josep Tarradellas Barcelona-El Prat | 411749N 0020442E           | 1°12'E                                      | 7.5'E                            |
| AD           | BILBAO  | 431804N 0025438W           | 0°18'W                                      | 8.5'E                            |
| AD           | BURGOS/Villafría                              | 422127N 0033649W           | 0°30'W                                      | 8.4'E                            |
| AD           | CÁDIZ/Rota                                    | 363843N 0062058W           | 1°02'W                                      | 7.9'E                            |
| AD           | CASTELLÓN                                     | 401251N 0000425E           | 0°42'E                                      | 7.6'E                            |
| HEL          | CEUTA   | 355334N 0051823W           | 0°43'W                                      | 9.0'E                            |
| AD           | CIUDAD REAL                                   | 385123N 0035812W           | 0°27'W                                      | 7.9'E                            |
| HEL          | CIUDAD REAL/Almagro                           | 385712N 0034429W           | 0°21'W                                      | 7.9'E                            |
| AD           | CÓRDOBA                                       | 375031N 0045056W           | 0°40'W                                      | 7.8'E                            |
| AD           | EL HIERRO                                     | 274853N 0175313W           | 5°13'W                                      | 10.2'E                           |
| AD           | FUERTEVENTURA                                 | 282710N 0135150W           | 3°41'W                                      | 9.6'E                            |
| AD           | GIRONA  | 415403N 0024538E           | 1°23'E                                      | 7.5'E                            |
| AD           | GRAN CANARIA                                  | 275555N 0152312W           | 4°16'W                                      | 9.6'E                            |
| AD           | GRANADA/Armillá                               | 370800N 0033809W           | 0°23'W                                      | 7.5'E                            |
| AD           | GRANADA/Federico García Lorca. Granada-Jaén   | 371119N 0034638W           | 0°24'W                                      | 7.5'E                            |
| AD           | HUESCA/Pirineos                               | 420451N 0001924W           | 0°31'E                                      | 8.0'E                            |
| AD           | IBIZA   | 385222N 0012223E           | 1°03'E                                      | 7.1'E                            |
| AD           | JEREZ   | 364441N 0060336W           | 1°04'W                                      | 7.8'E                            |
| AD           | LA GOMERA                                     | 280147N 0171253W           | 4°56'W                                      | 9.6'E                            |
| AD           | LA PALMA                                      | 283735N 0174520W           | 5°06'W                                      | 10.2'E                           |
| AD           | LANZAROTE/César Manrique Lanzarote            | 285644N 0133619W           | 3°34'W                                      | 9.6'E                            |
| AD           | LEÓN  | 423519N 0053922W           | 1°10'W                                      | 8.7'E                            |
| AD           | LLEIDA/Alguaire                               | 414341N 0003207E           | 0°46'E                                      | 7.8'E                            |
| AD           | LOGROÑO                                       | 422738N 0021914W           | 0°08'W                                      | 8.3'E                            |
| HEL          | LOGROÑO/Agoncillo                             | 422715N 0021915W           | 0°08'W                                      | 8.3'E                            |
| AD           | MADRID/Adolfo Suárez Madrid-Barajas           | 402820N 0033339W           | 0°24'W                                      | 8.1'E                            |
| HEL          | MADRID/Colmenar Viejo                         | 404150N 0034548W           | 0°28'W                                      | 8.2'E                            |
| AD           | MADRID/Cuatro Vientos                         | 402214N 0034707W           | 0°27'W                                      | 8.2'E                            |
| AD           | MADRID/Getafe                                 | 401739N 0034325W           | 0°26'W                                      | 8.1'E                            |
| AD           | MADRID/Torrejón                               | 402948N 0032645W           | 0°22'W                                      | 8.1'E                            |
| AD           | MÁLAGA/Costa del Sol                          | 364030N 0042957W           | 0°33'W                                      | 7.5'E                            |
| AD           | MALLORCA/Pollensa                             | 395356N 0030556E           | 1°28'E                                      | 7.1'E                            |
| AD           | MALLORCA/Son Bonet                            | 393556N 0024210E           | 1°21'E                                      | 7.1'E                            |
| AD           | MELILLA                                       | 351647N 0025723W           | 0°05'W                                      | 9.0'E                            |
| HEL          | MELILLA                                       | 351807N 0025640W           | 0°05'W                                      | 9.0'E                            |
| AD           | MENORCA                                       | 395145N 0041307E           | 1°43'E                                      | 6.9'E                            |
| AD           | MURCIA/Aeropuerto de la Región de Murcia      | 374811N 0010729W           | 0°25'E                                      | 7.2'E                            |
| AD           | MURCIA/Alcantarilla                           | 375708N 0011351W           | 0°20'E                                      | 7.3'E                            |
| AD           | MURCIA/San Javier                             | 374630N 0004845W           | 0°34'E                                      | 7.1'E                            |
| AD           | PALMA DE MALLORCA                             | 393306N 0024420E           | 1°23'E                                      | 7.0'E                            |
| AD           | PAMPLONA                                      | 424612N 0013847W           | 0°02'E                                      | 8.2'E                            |

| TIPO<br>TYPE | NOMBRE<br>NAME                            | COORDENADAS<br>COORDINATES | DECLINACIÓN MAGNÉTICA<br>MAGNETIC VARIATION | VARIACIÓN ANUAL<br>ANNUAL CHANGE |
|--------------|---|----------------------------|---|----------------------------------|
| AD           | REUS                                      | 410851N 0011002E           | 0°59'E                                      | 7.6'E                            |
| AD           | SABADELL                                  | 413115N 0020618E           | 1°12'E                                      | 7.6'E                            |
| AD           | SALAMANCA/Matacán                         | 405707N 0053007W           | 1°04'W                                      | 8.5'E                            |
| AD           | SAN SEBASTIÁN                             | 432123N 0014726W           | 0°03'W                                      | 8.3'E                            |
| AD           | SANTANDER/Seve Ballesteros-Santander      | 432537N 0034912W           | 0°38'W                                      | 8.6'E                            |
| AD           | SANTIAGO/Rosalía de Castro                | 425347N 0082455W           | 2°09'W                                      | 9.2'E                            |
| HEL          | SERVEIS GENERALS DEL CIRCUIT DE CATALUNYA | 413426N 0021525E           | 1°15'E                                      | 7.5'E                            |
| AD           | SEVILLA                                   | 372505N 0055356W           | 0°57'W                                      | 7.9'E                            |
| HEL          | SEVILLA/EI Copero                         | 371847N 0055957W           | 0°58'W                                      | 7.9'E                            |
| AD           | SEVILLA/Morón                             | 371030N 0053658W           | 0°57'W                                      | 7.8'E                            |
| AD           | TENERIFE NORTE/Ciudad de La Laguna        | 282858N 0162030W           | 4°35'W                                      | 9.6'E                            |
| HEL          | TENERIFE NORTE/Los Rodeos                 | 282902N 0162105W           | 4°35'W                                      | 9.6' E                           |
| AD           | TENERIFE SUR                              | 280240N 0163421W           | 4°42'W                                      | 9.6'E                            |
| AD           | TERUEL                                    | 402443N 0011303W           | 0°20'E                                      | 7.8'E                            |
| AD           | VALENCIA                                  | 392922N 0002854W           | 0°35'E                                      | 7.5'E                            |
| HEL          | VALENCIA/Bétera                           | 393728N 0002820W           | 0°34'E                                      | 7.5'E                            |
| AD           | VALLADOLID/Villanubla                     | 414222N 0045107W           | 0°51'W                                      | 8.5'E                            |
| AD           | VIGO                                      | 421345N 0083739W           | 2°13'W                                      | 9.2'E                            |
| AD           | VITORIA                                   | 425258N 0024328W           | 0°16'W                                      | 8.4'E                            |
| AD           | ZARAGOZA                                  | 413958N 0010230W           | 0°18'E                                      | 8.0'E                            |

**NOTA:** Los ILS tienen la misma declinación magnética y variación anual que el aeropuerto al que sirven. //  
**NOTE:** ILS have the same magnetic variation and annual change as the airport they serve.

**DECLINACIÓN MAGNÉTICA DE TMA (2020)  
 TMA MAGNETIC VARIATION (2020)**

Esta declinación magnética es una declinación media solo utilizable en las cartas de salida y llegada normalizadas de vuelo por instrumentos de todos los aeródromos de los siguientes TMA, así como en las cartas de área de dicho TMA.

This magnetic variation is a mean variation only to be used on standard instrument departure and arrival charts of all aerodromes in the following TMA, as well as at area charts within the same TMA.

| NOMBRE<br>NAME | DECLINACIÓN MAGNÉTICA<br>MAGNETIC VARIATION |
|----------------|---|
| TMA CANARIAS   | 4°24'W                                      |
| TMA PALMA      | 1°23'E                                      |

DECLINACIÓN MAGNÉTICA Y VARIACIÓN ANUAL DE LAS AYUDAS A LA NAVEGACIÓN (2020)  
MAGNETIC VARIATION AND ANNUAL CHANGE OF NAVIGATION AIDS (2020)

| INDICADOR<br>INDICATOR | NOMBRE<br>NAME          | TIPO<br>TYPE | COORDENADAS<br>COORDINATES | DECLINACIÓN MAGNÉTICA<br>MAGNETIC VARIATION | VARIACIÓN ANUAL<br>ANNUAL CHANGE |
|------------------------|-------------------------|--------------|----------------------------|---|----------------------------------|
| ADX                    | ANDRAITX                | NDB          | 393258N 0022345E           | 1°18'E                                      | 7.1'E                            |
| AGP                    | MÁLAGA AEROPUERTO NORTE | DVOR         | 364104N 0042914W           | 0°33'W                                      | 7.5'E                            |
| AI                     | ALICANTE                | L            | 381746N 0003936W           | 0°31'E                                      | 7.2'E                            |
| AL                     | SALAMANCA               | L            | 410151N 0052649W           | 1°04'W                                      | 8.5'E                            |
| ALT                    | ALTET                   | VOR          | 381606N 0003412W           | 0°32'E                                      | 7.2'E                            |
| AM                     | ALMERÍA                 | L            | 365233N 0021424W           | 0°03'E                                      | 7.2'E                            |
| AMN                    | ALMERÍA                 | NDB          | 365054N 0022242W           | 0°01'E                                      | 7.2'E                            |
| AMR                    | ALMERÍA                 | VOR          | 364959N 0021534W           | 0°03'E                                      | 7.2'E                            |
| AOG                    | ROTA                    | TACAN        | 363852N 0062057W           | 1°02'W                                      | 7.9'E                            |
| AST                    | ASTURIAS                | NDB          | 433328N 0060142W           | 1°26'W                                      | 8.9'E                            |
| ATE                    | ALICANTE                | DVOR         | 381710N 0003512W           | 0°31'E                                      | 7.2'E                            |
| AV                     | ASTURIAS                | NDB          | 433221N 0055550W           | 1°24'W                                      | 8.9'E                            |
| B                      | BILBAO                  | L            | 432222N 0030206W           | 0°21'W                                      | 8.5'E                            |
| BAN                    | BARAHONA                | DVOR         | 411925N 0023747W           | 0°08'W                                      | 8.1'E                            |
| BBI                    | SALAMANCA               | VOR          | 410100N 0052725W           | 1°04'W                                      | 8.5'E                            |
| BCN                    | BARCELONA               | DVOR         | 411826N 0020628E           | 1°13'E                                      | 7.5'E                            |
| BGR                    | BAGUR                   | DVOR         | 415652N 0031232E           | 1°29'E                                      | 7.5'E                            |
| BLN                    | BAILÉN                  | VOR          | 380909N 0033729W           | 0°15'W                                      | 7.7'E                            |
| BLV                    | BILBAO                  | DVOR         | 431816N 0025609W           | 0°19'W                                      | 8.5'E                            |
| BRA                    | BARAJAS                 | DVOR         | 402809N 0033327W           | 0°24'W                                      | 8.1'E                            |
| BUR                    | BURGOS                  | VOR          | 422118N 0033649W           | 0°30'W                                      | 8.4'E                            |
| BX                     | LA PALMA                | NDB          | 283606N 0174525W           | 5°07'W                                      | 10.2'E                           |
| C                      | LA CORUÑA               | L            | 431926N 0082138W           | 2°13'W                                      | 9.2'E                            |
| CCS                    | CÁCERES                 | DVOR         | 393128N 0062605W           | 1°15'W                                      | 8.4'E                            |
| CDB                    | CÓRDOBA                 | DVOR         | 375049N 0045053W           | 0°40'W                                      | 7.8'E                            |
| CDP                    | CAPDEPERA               | DVOR         | 394152N 0032604E           | 1°35'E                                      | 7.0'E                            |
| CEU                    | CEUTA                   | NDB          | 355333N 0051820W           | 0°43'W                                      | 9.0'E                            |
| CJN                    | CASTEJÓN                | DVOR         | 402219N 0023241W           | 0°06'W                                      | 8.0'E                            |
| CLE                    | CALELLA                 | DVOR         | 413824N 0023805E           | 1°22'E                                      | 7.5'E                            |
| CLS                    | CALLES                  | DVOR         | 394226N 0005911W           | 0°25'E                                      | 7.6'E                            |
| CMA                    | CALAMOCHA               | VOR          | 405202N 0011753W           | 0°18'E                                      | 7.9'E                            |
| CNR                    | COLMENAR VIEJO          | DVOR         | 403846N 0034409W           | 0°27'W                                      | 8.2'E                            |
| COA                    | LA CORUÑA               | NDB          | 432155N 0081942W           | 2°13'W                                      | 9.2'E                            |
| CST                    | COSTIX                  | NDB          | 393829N 0025456E           | 1°27'E                                      | 7.0'E                            |
| CTN                    | CASTELLÓN               | DVOR         | 401308N 0000521E           | 0°42'E                                      | 7.6'E                            |
| CVT                    | CUATRO VIENTOS          | NDB          | 402204N 0034624W           | 0°27'W                                      | 8.2'E                            |
| DGO                    | DOMINGO                 | DVOR         | 422712N 0025251W           | 0°17'W                                      | 8.3'E                            |
| EAG                    | LOGROÑO                 | NDB          | 422705N 0021853W           | 0°08'W                                      | 8.3'E                            |
| EAL                    | ALMAGRO                 | NDB          | 385710N 0034517W           | 0°21'W                                      | 7.9'E                            |
| EBT                    | BÉTERA                  | NDB          | 393732N 0002819W           | 0°34'E                                      | 7.5'E                            |
| ECV                    | COLMENAR VIEJO          | NDB          | 404159N 0034546W           | 0°28'W                                      | 8.2'E                            |
| EEC                    | EL COPERO               | NDB          | 371843N 0060007W           | 0°58'W                                      | 7.9'E                            |
| EON                    | LEON                    | DVOR         | 423538N 0053846W           | 1°10'W                                      | 8.7'E                            |
| FP                     | TENERIFE NORTE          | L            | 282931N 0162210W           | 4°36'W                                      | 9.6'E                            |
| FTV                    | FUERTEVENTURA           | DVOR         | 282551N 0135152W           | 3°41'W                                      | 9.6'E                            |
| FUE                    | FUERTEVENTURA           | DME          | 282257N 0135158W           | 3°41'W                                      | 9.6'E                            |
| FV                     | FUERTEVENTURA           | NDB          | 282257N 0135158W           | 3°41'W                                      | 9.6'E                            |
| G                      | GERONA                  | NDB          | 415535N 0024613E           | 1°23'E                                      | 7.5'E                            |
| GDA                    | GRANADA                 | DVOR         | 371059N 0035927W           | 0°30'W                                      | 7.6'E                            |
| GDV                    | GRAN CANARIA            | DVOR         | 280437N 0152544W           | 4°17'W                                      | 9.2'E                            |
| GE                     | GETAFE                  | NDB          | 401159N 0035039W           | 0°27'W                                      | 8.1'E                            |
| GIR                    | GERONA                  | DVOR         | 415552N 0024619E           | 1°23'E                                      | 7.5'E                            |
| GM                     | MÁLAGA                  | L            | 364335N 0043417W           | 0°35'W                                      | 7.5'E                            |
| GR                     | GRANADA OESTE           | L            | 371118N 0035028W           | 0°26'W                                      | 7.5'E                            |

| INDICADOR<br>INDICATOR | NOMBRE<br>NAME        | TIPO<br>TYPE | COORDENADAS<br>COORDINATES | DECLINACIÓN MAGNÉTICA<br>MAGNETIC VARIATION | VARIACIÓN ANUAL<br>ANNUAL CHANGE |
|------------------------|-----------------------|--------------|----------------------------|---|----------------------------------|
| GRA                    | GRANADA               | L            | 371122N 0034040W           | 0°23'W                                      | 7.5'E                            |
| GRN                    | GERONA                | NDB          | 420130N 0024826E           | 1°23'E                                      | 7.6'E                            |
| HIE                    | EL HIERRO             | NDB          | 274858N 0175311W           | 5°13'W                                      | 10.2'E                           |
| HIG                    | SAN SEBASTIÁN         | NDB          | 432311N 0014745W           | 0°03'W                                      | 8.3'E                            |
| HIJ                    | HINOJOSA DEL DUQUE    | VOR          | 383029N 0050559W           | 0°47'W                                      | 8.0'E                            |
| HUE                    | HUESCA                | DVOR         | 420424N 0001908W           | 0°31'E                                      | 8.0'E                            |
| IBA                    | IBIZA                 | VOR          | 385206N 0012157E           | 1°02'E                                      | 7.1'E                            |
| IZA                    | IBIZA                 | NDB          | 385456N 0012813E           | 1°06'E                                      | 7.1'E                            |
| JER                    | JEREZ                 | NDB          | 365004N 0060058W           | 1°02'W                                      | 7.8'E                            |
| JOA                    | PALMA-SON SANT JOAN   | VOR          | 393353N 0024448E           | 1°23'E                                      | 7.0'E                            |
| JRZ                    | JEREZ                 | DVOR         | 364855N 0060136W           | 1°03'W                                      | 7.8'E                            |
| LGM                    | LA GOMERA             | DVOR         | 280143N 0171254W           | 4°56'W                                      | 9.6'E                            |
| LLE                    | ILERDA                | DVOR         | 414347N 0003139E           | 0°46'E                                      | 7.8'E                            |
| LPA                    | LOGROÑO               | DVOR         | 422738N 0021937W           | 0°08'W                                      | 8.3'E                            |
| LPC                    | GRAN CANARIA SUR      | DVOR         | 274943N 0152556W           | 4°18'W                                      | 9.6'E                            |
| LRA                    | LA CORUÑA             | DVOR         | 432346N 0081825W           | 2°13'W                                      | 9.2'E                            |
| LRD                    | LÉRIDA                | NDB          | 413311N 0003853E           | 0°47'E                                      | 7.7'E                            |
| LRO                    | TENERIFE-LOS RODEOS   | DVOR         | 282906N 0162106W           | 4°35'W                                      | 9.6'E                            |
| LTE                    | LANZAROTE AEROPUERTO  | DVOR         | 285653N 0133605W           | 3°35'W                                      | 9.6'E                            |
| LZ                     | LANZAROTE             | NDB          | 285719N 0133643W           | 3°34'W                                      | 9.6'E                            |
| LZR                    | LANZAROTE             | DVOR         | 290958N 0133039W           | 3°31'W                                      | 9.6'E                            |
| MAR                    | MARTÍN                | DVOR         | 370319N 0045624W           | 0°41'W                                      | 7.7'E                            |
| MEL                    | MELILLA               | DVOR         | 351650N 0025729W           | 0°05'W                                      | 9.0'E                            |
| MGA                    | MÁLAGA                | DVOR         | 364852N 0042210W           | 0°32'W                                      | 7.5'E                            |
| MHN                    | MENORCA               | DVOR         | 395149N 0041259E           | 1°43'E                                      | 6.9'E                            |
| MIA                    | MELILLA               | NDB          | 351828N 0025720W           | 0°05'W                                      | 9.0'E                            |
| MJV                    | MALLORCA              | DVOR         | 392607N 0024530E           | 1°24'E                                      | 7.0'E                            |
| MLA                    | MAELLA                | DVOR         | 410747N 0000955E           | 0°41'E                                      | 7.7'E                            |
| MLG                    | MÁLAGA AEROPUERTO SUR | DVOR         | 364043N 0043024W           | 0°33'W                                      | 7.5'E                            |
| MN                     | MENORCA               | NDB          | 395011N 0041248E           | 1°45'E                                      | 6.9'E                            |
| MRN                    | MORÓN                 | TACAN        | 371024N 0053714W           | 0°57'W                                      | 7.8'E                            |
| MRN                    | MORÓN                 | VOR          | 371030N 0053708W           | 0°57'W                                      | 7.8'E                            |
| MUR                    | MURCIA                | DVOR         | 374806N 0010715W           | 0°25'E                                      | 7.2'E                            |
| NEA                    | TABANERA DEL CERRATO  | VOR          | 420139N 0040633W           | 0°39'W                                      | 8.5'E                            |
| NUB                    | VILLANUBLA            | VOR          | 414219N 0045103W           | 0°51'W                                      | 8.5'E                            |
| NVS                    | NAVAS DEL REY         | DVOR         | 402207N 0041458W           | 0°34'W                                      | 8.2'E                            |
| PA                     | PALMA DE MALLORCA     | NDB          | 393558N 0024916E           | 1°25'E                                      | 7.0'E                            |
| PAM                    | PAMPLONA              | NDB          | 424251N 0013821W           | 0°03'E                                      | 8.2'E                            |
| PAP                    | PAMPLONA SUR          | DVOR         | 424118N 0013939W           | 0°03'E                                      | 8.2'E                            |
| PDT                    | PERALES DE TAJUÑA     | DVOR         | 401510N 0032053W           | 0°20'W                                      | 8.1'E                            |
| PND                    | PINEDO                | NDB          | 392615N 0002047W           | 0°38'E                                      | 7.5'E                            |
| POS                    | POLLENSA              | DVOR         | 395539N 0030652E           | 1°28'E                                      | 7.1'E                            |
| PP                     | PAMPLONA              | L            | 425200N 0014301W           | 0°00'W                                      | 8.3'E                            |
| PPN                    | PAMPLONA              | DVOR         | 424402N 0014207W           | 0°01'E                                      | 8.2'E                            |
| PRA                    | EL PRAT               | DVOR         | 411659N 0020455E           | 1°13'E                                      | 7.5'E                            |
| PTC                    | PORTO COLOM           | NDB          | 392538N 0031524E           | 1°33'E                                      | 6.9'E                            |
| RBO                    | ROBLEDILLO            | DVOR         | 405114N 0031448W           | 0°18'W                                      | 8.2'E                            |
| RES                    | REUS                  | VOR          | 410859N 0011016E           | 0°59'E                                      | 7.6'E                            |
| RMA                    | MÁLAGA                | NDB          | 363932N 0042836W           | 0°32'W                                      | 7.5'E                            |
| RUS                    | REUS                  | NDB          | 410852N 0010846E           | 0°59'E                                      | 7.6'E                            |
| SA                     | SANTANDER             | NDB          | 432606N 0035100W           | 0°39'W                                      | 8.6'E                            |
| SGO                    | SAGUNTO               | NDB          | 394027N 0001228W           | 0°39'E                                      | 7.5'E                            |
| SIE                    | SOMOSIERRA            | DVOR         | 410906N 0033617W           | 0°26'W                                      | 8.3'E                            |
| SLL                    | SABADELL              | DVOR         | 413111N 0020635E           | 1°12'E                                      | 7.6'E                            |
| SNR                    | SANTANDER             | DVOR         | 432659N 0035409W           | 0°40'W                                      | 8.6'E                            |
| SO                     | SANTIAGO              | L            | 425809N 0082623W           | 2°09'W                                      | 9.2'E                            |

| INDICADOR<br>INDICATOR | NOMBRE<br>NAME             | TIPO<br>TYPE | COORDENADAS<br>COORDINATES | DECLINACIÓN MAGNÉTICA<br>MAGNETIC VARIATION | VARIACIÓN ANUAL<br>ANNUAL CHANGE |
|------------------------|----------------------------|--------------|----------------------------|---|----------------------------------|
| SPP                    | SEVILLA                    | NDB          | 372505N 0054744W           | 0°56'W                                      | 7.9'E                            |
| SSJ                    | PALMA DE MALLORCA          | TACAN        | 393335N 0024400E           | 1°23'E                                      | 7.0'E                            |
| SSN                    | SAN SEBASTIÁN              | DVOR         | 431840N 0014949W           | 0°03'W                                      | 8.3'E                            |
| SSY                    | SAN SEBASTIAN DE LOS REYES | DVOR         | 403247N 0033431W           | 0°24'W                                      | 8.2'E                            |
| STG                    | SANTIAGO                   | DVOR         | 425537N 0082531W           | 2°09'W                                      | 9.2'E                            |
| SVL                    | SEVILLA                    | DVOR         | 372539N 0054544W           | 0°56'W                                      | 7.9'E                            |
| TAB                    | ALBACETE                   | TACAN        | 385645N 0015148W           | 0°12'E                                      | 7.6'E                            |
| TBC                    | BADAJOS                    | TACAN        | 385330N 0064907W           | 1°25'W                                      | 8.4'E                            |
| TBR                    | BÁRDENAS REALES            | TACAN        | 421149N 0012833W           | 0°08'E                                      | 8.1'E                            |
| TES                    | TENERIFE SUR               | NDB          | 280317N 0163346W           | 4°42'W                                      | 9.6'E                            |
| TFN                    | TENERIFE NORTE             | DVOR         | 283213N 0161608W           | 4°34'W                                      | 9.6'E                            |
| TFS                    | TENERIFE SUR               | DVOR         | 280009N 0164117W           | 4°45'W                                      | 9.6'E                            |
| TGN                    | GRAN CANARIA               | TACAN        | 275524N 0152322W           | 4°16'W                                      | 9.6'E                            |
| TGR                    | ARMILLA                    | TACAN        | 370757N 0033802W           | 0°23'W                                      | 7.5'E                            |
| TJZ                    | TORREJÓN                   | TACAN        | 402956N 0032644W           | 0°22'W                                      | 8.1'E                            |
| TLD                    | TOLEDO                     | DVOR         | 395810N 0042015W           | 0°36'W                                      | 8.2'E                            |
| TLZ                    | LANZAROTE                  | TACAN        | 285641N 0133625W           | 3°34'W                                      | 9.6'E                            |
| TON                    | TORRALBA DE ARAGÓN         | NDB          | 415540N 0003050W           | 0°26'E                                      | 8.0'E                            |
| TRL                    | ALCANTARILLA               | TACAN        | 375701N 0011348W           | 0°20'E                                      | 7.3'E                            |
| TSC                    | SALAMANCA                  | TACAN        | 405719N 0053009W           | 1°04'W                                      | 8.5'E                            |
| VAB                    | ALBACETE                   | DVOR         | 385650N 0015134W           | 0°12'E                                      | 7.6'E                            |
| VBZ                    | BADAJOS                    | DVOR         | 385324N 0064857W           | 1°25'W                                      | 8.4'E                            |
| VES                    | ASTURIAS                   | DVOR         | 433325N 0060026W           | 1°25'W                                      | 8.9'E                            |
| VFD                    | VITORIA-FORONDA            | DVOR         | 425250N 0024328W           | 0°16'W                                      | 8.4'E                            |
| VGE                    | GETAFE                     | VOR/TACAN    | 401723N 0034334W           | 0°26'W                                      | 8.1'E                            |
| VGO                    | VIGO                       | DVOR         | 421917N 0083606W           | 2°13'W                                      | 9.2'E                            |
| VI                     | VIGO NORTE                 | NDB          | 421906N 0083612W           | 2°13'W                                      | 9.2'E                            |
| VJF                    | VEJER DE LA FRONTERA       | DVOR         | 361422N 0055832W           | 0°59'W                                      | 7.7'E                            |
| VLA                    | VILLAFRANCA                | DVOR         | 412033N 0013252E           | 1°02'E                                      | 7.6'E                            |
| VLC                    | VALENCIA                   | DVOR         | 392908N 0002859W           | 0°35'E                                      | 7.5'E                            |
| VNV                    | VILLANUEVA                 | NDB          | 411238N 0014221E           | 1°06'E                                      | 7.5'E                            |
| VON                    | VIGO                       | NDB          | 421110N 0083820W           | 2°15'W                                      | 9.2'E                            |
| VR                     | GRAN CANARIA               | L            | 275125N 0152512W           | 4°17'W                                      | 9.6'E                            |
| VRA                    | VITORIA                    | VOR          | 424355N 0025156W           | 0°16'W                                      | 8.4'E                            |
| VSJ                    | SAN JAVIER                 | VOR/TACAN    | 374647N 0004846W           | 0°34'E                                      | 7.2'E                            |
| VT                     | VITORIA                    | NDB          | 424807N 0024815W           | 0°15'W                                      | 8.4'E                            |
| VTA                    | VITORIA                    | NDB          | 425541N 0024047W           | 0°17'W                                      | 8.4'E                            |
| VTB                    | VILLATOBAS                 | DVOR         | 394651N 0032750W           | 0°19'W                                      | 8.0'E                            |
| VTZ                    | TORREJÓN                   | DVOR         | 402832N 0032819W           | 0°23'W                                      | 8.1'E                            |
| YES                    | YESTE                      | DVOR         | 382139N 0022110W           | 0°02'E                                      | 7.5'E                            |
| ZAR                    | ZARAGOZA                   | VOR          | 413928N 0010151W           | 0°19'E                                      | 8.0'E                            |
| ZMR                    | ZAMORA                     | DVOR         | 413149N 0053823W           | 1°10'W                                      | 8.6'E                            |
| ZRZ                    | ZARAGOZA                   | NDB          | 414350N 0011136W           | 0°16'E                                      | 8.0'E                            |
| ZZA                    | ZARAGOZA                   | TACAN        | 414038N 0010331W           | 0°18'E                                      | 8.0'E                            |

**NOTA:** Los datos relativos a radioayudas se refieren a la declinación magnética y variación anual existentes en las coordenadas donde se sitúan dichas radioayudas. Se desconoce la declinación magnética utilizada en la alineación técnica de los VOR. //

**NOTE:** The figures relative to nav aids are the magnetic variation and annual change that exist at the coordinates where the nav aids are located. The magnetic variation used for the VOR technical alignment is unknown.

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**INTENTIONALLY BLANK**