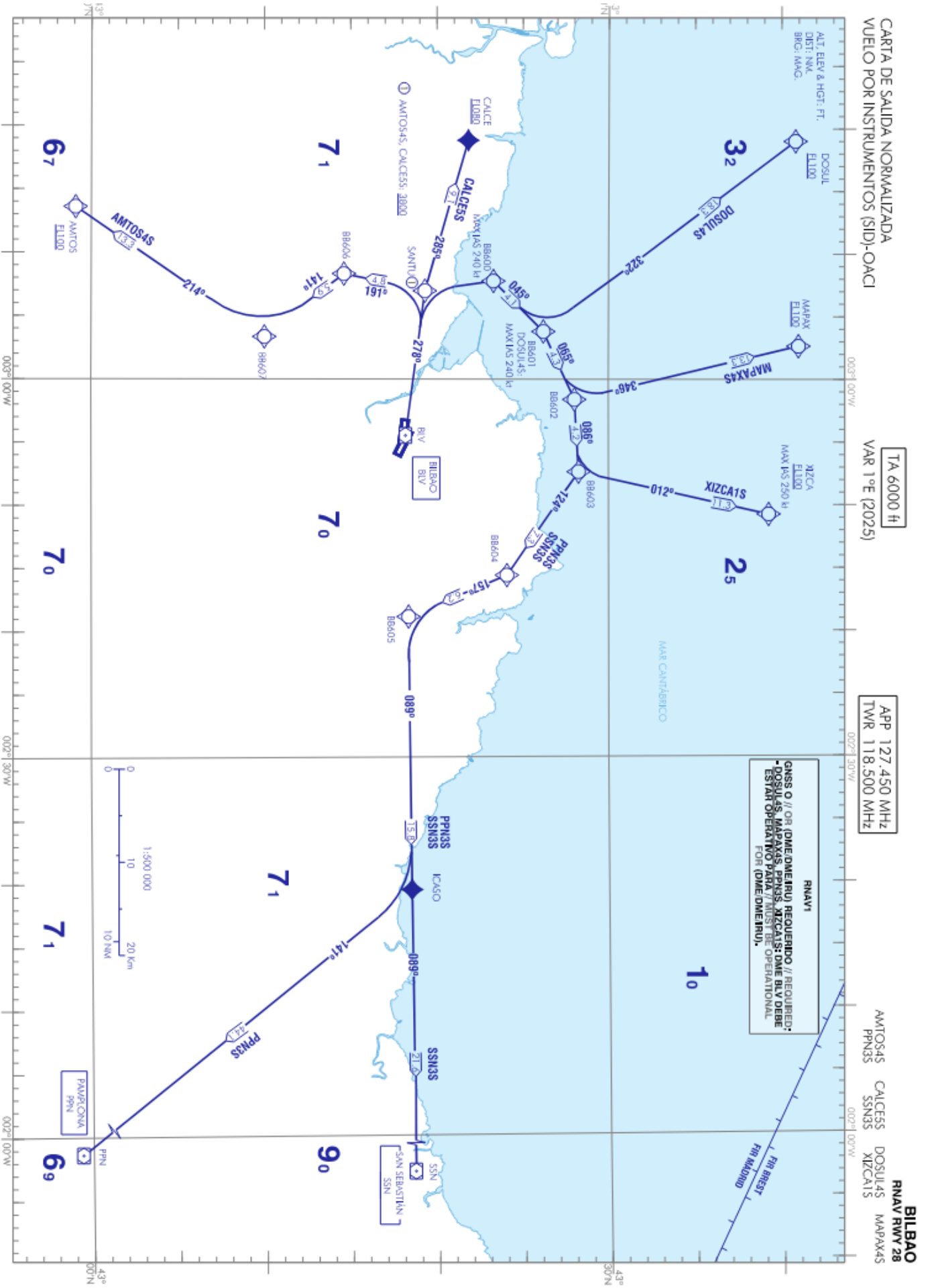




NEW CHART.

CHANGES:

WAYPOINTS COORDINATES

| WPT   | COORD                |
|-------|----------------------|
| AMTOS | 425906.6N 0031336.7W |
| BB600 | 432320.2N 0030747.3W |
| BB601 | 432614.2N 0030347.0W |
| BB602 | 432802.4N 0025822.7W |
| BB603 | 432816.9N 0025237.9W |
| BB604 | 432407.5N 0024424.9W |
| BB605 | 431825.2N 0024108.2W |
| BB606 | 431440.2N 0030820.8W |
| BB607 | 431003.6N 0030321.1W |
| CALCE | 432145.8N 0031900.0W |
| DOSUL | 434050.0N 0031900.0W |
| ICASO | 431833.6N 0021928.3W |
| MAPAX | 434101.5N 0030238.7W |
| PPN   | 424401.5N 0014207.2W |
| SANTU | 431922.1N 0030700.3W |
| SSN   | 431840.3N 0014949.4W |
| XIZCA | 433918.1N 0024915.4W |

STANDARD INSTRUMENT DEPARTURES (SID)

RUNWAY 28

NOTES APPLICABLE TO ALL SID:

- RNAV1.
- GNNS or (DME/DME/IRU) required.
- SPEED CONTROL:
  - MAX IAS 250 kt below FL100.

CONTINGENCY DEPARTURE (ODP).

LEBB ONE SIERRA (LEBB1S). TACTICAL USE ONLY. UNPLANNED.

Departing aircraft without RNAV1 operational approval that intend to follow an RNAV1-exclusive departure routing shall notify Bilbao TWR by voice as soon as possible and will be instructed to proceed in accordance with this contingency departure

Climb on magnetic heading 291° up to reach 4500 ft AMSL.

Turn following for ATC instructions.

Minimum climb gradient of 6.7% up to 4500 ft AMSL.

In case of communication failure, proceed according to the established in section ENR 1.8, item “Air ground Communication Failure” in AIP ESPAÑA.

CRITICAL DME

| FACILITY (ID) | FREQ/CH                | COORD                      |
|---------------|------------------------|----------------------------|
| BILBAO (BLV)  | 117.650 MHz<br>CH 123Y | 431815.4945N 0025530.9468W |

PROCEDURE TABULAR DESCRIPTION

| Serial number                                                                                                                               | Path Terminator | Waypoint identifier | Fly-over | Course/Track °M (°T) | Magnetic variation | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | VPA/TCH (°/ft) | Navegation specification |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------|----------|----------------------|--------------------|---------------|----------------|---------------|------------|----------------|--------------------------|
| <div>AMTOS4S</div> <div>Minimum climb gradient of 7.7% up to SANTU.</div> <div>Minimum climb gradient of 7.0% from SANTU up to AMTOS.</div> |                 |                     |          |                      |                    |               |                |               |            |                |                          |
| 001                                                                                                                                         | CF              | SANTU               | -        | 278 (278.5)          | -0.7               | -             | -              | +3800         | -          | -              | RNAV1                    |
| 002                                                                                                                                         | TF              | BB606               | -        | 191 (191.8)          | -0.7               | 4.8           | -              | -             | -          | -              | RNAV1                    |
| 003                                                                                                                                         | TF              | BB607               | -        | 141 (141.6)          | -0.7               | 5.9           | -              | -             | -          | -              | RNAV1                    |
| 004                                                                                                                                         | TF              | AMTOS               | -        | 214 (214.5)          | -0.7               | 13.3          | -              | +FL100        | -          | -              | RNAV1                    |
| <div>CALCE5S</div> <div>MINIMUM CLIMB GRADIENT OF 7.7% UP TO CALCE.</div>                                                                   |                 |                     |          |                      |                    |               |                |               |            |                |                          |
| 001                                                                                                                                         | CF              | SANTU               | -        | 278 (278.5)          | -0.7               | -             | -              | +3800         | -          | -              | RNAV1                    |
| 002                                                                                                                                         | TF              | CALCE               | -        | 285 (285.4)          | -0.7               | 9.1           | -              | +FL080        | -          | -              | RNAV1                    |
| <div>DOSUL4S</div> <div>Minimum climb gradient of 7.0% up to DOSUL.</div>                                                                   |                 |                     |          |                      |                    |               |                |               |            |                |                          |
| 001                                                                                                                                         | CF              | SANTU               | -        | 278 (278.5)          | -0.7               | -             | -              | -             | -          | -              | RNAV1                    |
| 002                                                                                                                                         | TF              | BB600               | -        | 351 (351.8)          | -0.7               | 4.0           | -              | -             | -          | -              | RNAV1                    |
| 003                                                                                                                                         | TF              | BB601               | -        | 045 (045.2)          | -0.7               | 4.1           | -              | -             | -240       | -              | RNAV1                    |
| 004                                                                                                                                         | TF              | DOSUL               | -        | 322 (322.9)          | -0.7               | 18.3          | -              | +FL100        | -          | -              | RNAV1                    |
| <div>MAPAX4S</div> <div>Minimum climb gradient of 7.0% up to MAPAX.</div> <div>- DME BLV must be operational fo (DME/DME/IRU).</div>        |                 |                     |          |                      |                    |               |                |               |            |                |                          |
| 001                                                                                                                                         | CF              | SANTU               | -        | 278 (278.5)          | -0.7               | -             | -              | -             | -          | -              | RNAV1                    |
| 002                                                                                                                                         | TF              | BB600               | -        | 351 (351.8)          | -0.7               | 4.0           | -              | -             | -240       | -              | RNAV1                    |
| 003                                                                                                                                         | TF              | BB601               | -        | 045 (045.2)          | -0.7               | 4.1           | -              | -             | -          | -              | RNAV1                    |
| 004                                                                                                                                         | TF              | BB602               | -        | 065 (065.4)          | -0.7               | 4.3           | -              | -             | -          | -              | RNAV1                    |
| 005                                                                                                                                         | TF              | MAPAX               | -        | 346 (346.6)          | -0.7               | 13.3          | -              | +FL100        | -          | -              | RNAV1                    |
| <div>PPN3S</div> <div>Minimum climb gradient of 7.0% up to ICASO.</div> <div>- DME BLV must be operational fo (DME/DME/IRU).</div>          |                 |                     |          |                      |                    |               |                |               |            |                |                          |
| 001                                                                                                                                         | CF              | SANTU               | -        | 278 (278.5)          | -0.7               | -             | -              | -             | -          | -              | RNAV1                    |
| 002                                                                                                                                         | TF              | BB600               | -        | 351 (351.8)          | -0.7               | 4.0           | -              | -             | -240       | -              | RNAV1                    |
| 003                                                                                                                                         | TF              | BB601               | -        | 045 (045.2)          | -0.7               | 4.1           | -              | -             | -          | -              | RNAV1                    |
| 004                                                                                                                                         | TF              | BB602               | -        | 065 (065.4)          | -0.7               | 4.3           | -              | -             | -          | -              | RNAV1                    |
| 005                                                                                                                                         | TF              | BB603               | -        | 086 (086.6)          | -0.7               | 4.2           | -              | -             | -          | -              | RNAV1                    |
| 006                                                                                                                                         | TF              | BB604               | -        | 124 (124.7)          | -0.7               | 7.3           | -              | -             | -          | -              | RNAV1                    |
| 007                                                                                                                                         | TF              | BB605               | -        | 157 (157.2)          | -0.7               | 6.2           | -              | -             | -          | -              | RNAV1                    |
| 008                                                                                                                                         | TF              | ICASO               | -        | 089 (089.4)          | -0.7               | 15.8          | -              | -             | -          | -              | RNAV1                    |
| 009                                                                                                                                         | TF              | PPN                 | -        | 141 (141.4)          | -0.7               | 44.1          | -              | -             | -          | -              | RNAV1                    |
| <div>SSN3S</div> <div>Minimum climb gradient of 7.0% up to ICASO.</div> <div>- DME BLV must be operational fo (DME/DME/IRU).</div>          |                 |                     |          |                      |                    |               |                |               |            |                |                          |
| 001                                                                                                                                         | CF              | SANTU               | -        | 278 (278.5)          | -0.7               | -             | -              | -             | -          | -              | RNAV1                    |

| Serial number                                                                                                                        | Path Terminator | Waypoint identifier | Fly-over | Course/Track °M (°T) | Magnetic variation | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | VPA/TCH (°/ft) | Navegation specification |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------|----------|----------------------|--------------------|---------------|----------------|---------------|------------|----------------|--------------------------|
| 002                                                                                                                                  | TF              | BB600               | -        | 351 (351.8)          | -0.7               | 4.0           | -              | -             | -240       | -              | RNAV1                    |
| 003                                                                                                                                  | TF              | BB601               | -        | 045 (045.2)          | -0.7               | 4.1           | -              | -             | -          | -              | RNAV1                    |
| 004                                                                                                                                  | TF              | BB602               | -        | 065 (065.4)          | -0.7               | 4.3           | -              | -             | -          | -              | RNAV1                    |
| 005                                                                                                                                  | TF              | BB603               | -        | 086 (086.6)          | -0.7               | 4.2           | -              | -             | -          | -              | RNAV1                    |
| 006                                                                                                                                  | TF              | BB604               | -        | 124 (124.7)          | -0.7               | 7.3           | -              | -             | -          | -              | RNAV1                    |
| 007                                                                                                                                  | TF              | BB605               | -        | 157 (157.2)          | -0.7               | 6.2           | -              | -             | -          | -              | RNAV1                    |
| 008                                                                                                                                  | TF              | ICASO               | -        | 089 (089.4)          | -0.7               | 15.8          | -              | -             | -          | -              | RNAV1                    |
| 009                                                                                                                                  | TF              | SSN                 | -        | 089 (089.5)          | -0.7               | 21.6          | -              | -             | -          | -              | RNAV1                    |
| <div>XIZCA1S</div> <div>Minimum climb gradient of 7.0% up to XIZCA.</div> <div>- DME BLV must be operational fo (DME/DME/IRU).</div> |                 |                     |          |                      |                    |               |                |               |            |                |                          |
| 001                                                                                                                                  | CF              | SANTU               | -        | 278 (278.5)          | -0.7               | -             | -              | -             | -          | -              | RNAV1                    |
| 002                                                                                                                                  | TF              | BB600               | -        | 351 (351.8)          | -0.7               | 4.0           | -              | -             | -240       | -              | RNAV1                    |
| 003                                                                                                                                  | TF              | BB601               | -        | 045 (045.2)          | -0.7               | 4.1           | -              | -             | -          | -              | RNAV1                    |
| 004                                                                                                                                  | TF              | BB602               | -        | 065 (065.4)          | -0.7               | 4.3           | -              | -             | -          | -              | RNAV1                    |
| 005                                                                                                                                  | TF              | BB603               | -        | 086 (086.6)          | -0.7               | 4.2           | -              | -             | -          | -              | RNAV1                    |
| 006                                                                                                                                  | TF              | XIZCA               | -        | 012 (012.5)          | -0.7               | 11.3          | -              | +FL100        | -250       | -              | RNAV1                    |

SIGNIFICANT OBSTACLES

| OBS                     | RWY | LAT       | LON        | HGT (ft) | ELEV (ft) |
|-------------------------|-----|-----------|------------|----------|-----------|
| Terrain                 | 28  | 431739.3N | 0030303.9W | 0        | 1331      |
| Terrain                 | 28  | 432004.6N | 0030346.4W | 0        | 1465      |
| Terrain                 | 28  | 431717.3N | 0030603.1W | 0        | 2002      |
| Terrain                 | 28  | 431822.5N | 0030905.2W | 0        | 2050      |
| Terrain                 | 28  | 431715.0N | 0030601.1W | 0        | 2003      |
| Terrain                 | 28  | 431822.5N | 0030905.4W | 0        | 2051      |
| Terrain                 | 28  | 431536.3N | 0030406.4W | 0        | 2674      |
| Terrain                 | 28  | 431659.3N | 0030406.5W | 0        | 1612      |
| Terrain                 | 28  | 431208.2N | 0025846.2W | 0        | 3277      |
| Terrain                 | 28  | 431703.2N | 0030219.3W | 0        | 1693      |
| LEBB-OBS-00497-005-2024 | 28  | 432044.8N | 0030441.1W | 233      | 1014      |
| LEBB-OBS-00500-022-2024 | 28  | 432024.2N | 0030418.5W | 170      | 1339      |
| LEBB-OBS-00674-005-2024 | 28  | 431828.6N | 0025802.5W | 46       | 346       |
| LEBB-OBS-00674-006-2024 | 28  | 431825.8N | 0025758.6W | 47       | 346       |
| LEBB-OBS-00674-007-2024 | 28  | 431821.9N | 0025753.1W | 56       | 341       |
| LEBB-OBS-00674-008-2024 | 28  | 431818.2N | 0025748.1W | 65       | 313       |
| LEBB-OBS-00677-000-2024 | 28  | 431815.9N | 0025750.4W | 29       | 307       |
| LEBB-OBS-00678-001-2024 | 28  | 431817.1N | 0025751.7W | 27       | 322       |
| LEBB-OBS-00678-002-2024 | 28  | 431818.6N | 0025751.7W | 26       | 324       |
| LEBB-OBS-00678-003-2024 | 28  | 431819.9N | 0025752.7W | 25       | 323       |
| LEBB-OBS-00679-000-2024 | 28  | 431818.5N | 0025755.1W | 22       | 342       |
| LEBB-OBS-00681-001-2024 | 28  | 431819.0N | 0025758.4W | 20       | 359       |
| LEBB-OBS-00681-002-2024 | 28  | 431818.7N | 0025757.9W | 26       | 363       |
| LEBB-OBS-00682-000-2024 | 28  | 431824.5N | 0025801.3W | 28       | 353       |
| LEBB-OBS-00686-000-2024 | 28  | 431755.5N | 0030442.6W | 14       | 1172      |
| LEBB-OBS-00689-000-2024 | 28  | 431759.3N | 0030411.6W | 0        | 1044      |
| LEBB-OBS-00691-000-2024 | 28  | 431753.9N | 0030358.7W | 0        | 1141      |

| OBS                     | RWY | LAT       | LON        | HGT (ft) | ELEV (ft) |
|-------------------------|-----|-----------|------------|----------|-----------|
| LEBB-OBS-00696-001-2024 | 28  | 431800.0N | 0030436.9W | 23       | 1077      |
| LEBB-OBS-00696-002-2024 | 28  | 431759.9N | 0030436.9W | 23       | 1079      |
| LEBB-OBS-00698-000-2024 | 28  | 431751.9N | 0030521.0W | 42       | 1239      |
| LEBB-OBS-00700-000-2024 | 28  | 431754.1N | 0030620.4W | 76       | 1381      |
| LEBB-OBS-00795-000-2024 | 28  | 432003.8N | 0030345.2W | 6        | 1485      |
| LEBB-OBS-00796-001-2024 | 28  | 432003.6N | 0030346.0W | 164      | 1629      |
| LEBB-OBS-00796-002-2024 | 28  | 432003.6N | 0030346.0W | 159      | 1624      |
| LEBB-OBS-00796-003-2024 | 28  | 432003.6N | 0030346.0W | 144      | 1608      |
| LEBB-OBS-00816-000-2024 | 28  | 431718.4N | 0030244.3W | 169      | 1613      |
| LEBB-OBS-00820-000-2024 | 28  | 432020.9N | 0030408.4W | 94       | 1321      |
| LEBB-OBS-02287-000-2024 | 28  | 431811.4N | 0025752.8W | 35       | 310       |
| LEBB-OBS-02296-000-2024 | 28  | 431809.9N | 0025749.7W | 66       | 306       |
| LEBB-OBS-02350-000-2024 | 28  | 431816.1N | 0025755.1W | 26       | 334       |
| LEBB-OBS-02351-000-2024 | 28  | 431816.3N | 0025756.4W | 27       | 343       |
| LEBB-OBS-02359-000-2024 | 28  | 431823.7N | 0025802.4W | 26       | 346       |
| LEBB-OBS-03072-000-2024 | 28  | 431821.6N | 0025753.4W | 18       | 316       |
| LEBB-OBS-03073-001-2024 | 28  | 431822.9N | 0025757.8W | 26       | 332       |
| LEBB-OBS-03073-002-2024 | 28  | 431822.2N | 0025758.0W | 24       | 342       |
| LEBB-OBS-03074-000-2024 | 28  | 431822.3N | 0025758.9W | 29       | 347       |
| LEBB-OBS-03075-000-2024 | 28  | 431822.2N | 0025757.8W | 25       | 341       |
| LEBB-OBS-03078-001-2024 | 28  | 431820.5N | 0025760.0W | 23       | 354       |
| LEBB-OBS-03078-002-2024 | 28  | 431820.7N | 0025759.9W | 25       | 355       |
| LEBB-OBS-03080-001-2024 | 28  | 431819.6N | 0025757.7W | 26       | 363       |
| LEBB-OBS-03080-002-2024 | 28  | 431819.0N | 0025756.9W | 26       | 361       |
| LEBB-OBS-03081-000-2024 | 28  | 431819.0N | 0025753.9W | 24       | 336       |
| LEBB-OBS-03082-000-2024 | 28  | 431817.6N | 0025753.2W | 21       | 325       |
| LEBB-OBS-03084-000-2024 | 28  | 431816.3N | 0025752.5W | 29       | 316       |
| LEBB-OBS-03086-000-2024 | 28  | 431817.3N | 0025750.6W | 23       | 308       |
| LEBB-OBS-03087-000-2024 | 28  | 431817.6N | 0025751.2W | 25       | 317       |
| LEBB-OBS-03089-000-2024 | 28  | 431817.7N | 0025750.0W | 23       | 307       |
| LEBB-OBS-03090-000-2024 | 28  | 431818.7N | 0025750.5W | 26       | 310       |
| LEBB-OBS-07602-000-2024 | 28  | 432017.5N | 0030401.3W | 94       | 1330      |
| LEBB-OBS-07621-000-2024 | 28  | 431752.5N | 0030437.1W | 31       | 1252      |
| LEBB-OBS-07622-000-2024 | 28  | 431756.3N | 0030435.5W | 24       | 1159      |
| LEBB-OBS-07624-000-2024 | 28  | 431803.9N | 0030419.9W | 77       | 1032      |
| LEBB-OBS-07627-000-2024 | 28  | 431802.7N | 0030350.2W | 0        | 1049      |
| LEBB-OBS-07686-000-2024 | 28  | 431823.1N | 0025758.2W | 31       | 337       |
| LEBB-OBS-07708-001-2024 | 28  | 431821.1N | 0025759.8W | 27       | 355       |
| LEBB-OBS-07708-002-2024 | 28  | 431820.3N | 0025758.9W | 27       | 362       |
| LEBB-OBS-07708-003-2024 | 28  | 431819.6N | 0025757.8W | 29       | 366       |
| LEBB-OBS-07708-004-2024 | 28  | 431818.8N | 0025756.7W | 29       | 363       |
| LEBB-OBS-07709-000-2024 | 28  | 431819.9N | 0025757.6W | 24       | 356       |
| LEBB-OBS-07710-000-2024 | 28  | 431818.8N | 0025757.0W | 35       | 372       |
| LEBB-OBS-07714-000-2024 | 28  | 431819.0N | 0025759.4W | 24       | 362       |
| LEBB-OBS-07715-000-2024 | 28  | 431819.4N | 0025758.5W | 29       | 368       |
| LEBB-OBS-07717-000-2024 | 28  | 431821.9N | 0025759.9W | 29       | 355       |

| OBS                     | RWY | LAT       | LON        | HGT (ft) | ELEV (ft) |
|-------------------------|-----|-----------|------------|----------|-----------|
| LEBB-OBS-07718-000-2024 | 28  | 431824.5N | 0025759.1W | 31       | 341       |
| LEBB-OBS-07719-000-2024 | 28  | 431825.8N | 0025800.2W | 30       | 339       |
| LEBB-OBS-07722-000-2024 | 28  | 431820.0N | 0025759.4W | 31       | 369       |
| LEBB-OBS-07723-000-2024 | 28  | 431819.4N | 0025759.9W | 27       | 365       |
| LEBB-OBS-07725-000-2024 | 28  | 431817.5N | 0025749.7W | 30       | 312       |
| LEBB-OBS-07727-002-2024 | 28  | 431810.6N | 0025754.9W | 37       | 319       |
| LEBB-OBS-08300-000-2024 | 28  | 432003.2N | 0030345.0W | 28       | 1495      |
| LEBB-OBS-08435-000-2024 | 28  | 431541.0N | 0030538.3W | 39       | 1385      |
| LEBB-OBS-09944-000-2024 | 28  | 431809.2N | 0025749.6W | 71       | 305       |
| LEBB-OBS-09946-000-2024 | 28  | 431819.1N | 0025756.0W | 34       | 361       |
| LEBB-OBS-10085-000-2024 | 28  | 431811.1N | 0025749.8W | 67       | 308       |