



WAYPOINTS COORDINATES

WPT	COORD
AMTOS	425906.6N 0031336.7W
BB700	431215.6N 0023852.5W
CALCE	432145.8N 0031900.0W
DOSUL	434050.0N 0031900.0W
LUKEP	431457.5N 0024610.8W
MAPAX	434101.5N 0030238.7W
PPN	424401.5N 0014207.2W
SSN	431840.3N 0014949.4W
XIZCA	433918.1N 0024915.4W

STANDARD INSTRUMENT DEPARTURES (SID)

RUNWAY 12

NOTES APPLICABLE TO ALL SID:

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

CONTINGENCY DEPARTURE (ODP).

LEBB ONE BRAVO (LEBB1B). 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 101° up to reach 6000 ft AMSL.

Await for ATC instructions.

Minimum climb gradient of 9.0% up to 6000 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 CH 123Y	431815.4945N 0025530.9468W
DOMINGO (DGO)	112.60 MHz CH 73X	422712.2978N 0025250.1135W

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)	Navigation specification
AMTOS6B Minimum climb gradient of 7.0 % up to AMTOS.											
001	CF	LUKEP	Y	116 (116.7)	-0.7	-	-	-	-	-	RNAV1
002	DF	AMTOS	-	-	-0.7	-	R	+FL100	-210	-	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)	Navigation specification
CALCE6B Minimum climb gradient of 7.0 % up to CALCE. - DME DGO must be operational for (DME/DME/IRU).											
001	CF	LUKEP	Y	116 (116.7)	-0.7	-	-	-	-	-	RNAV1
002	DF	CALCE	-	-	-0.7	-	R	+FL080	-220	-	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)	Navigation specification
DOSUL5B Minimum climb gradient of 7.0 % up to LUKEP.											
001	CF	LUKEP	Y	116 (116.7)	-0.7	-	-	-	-	-	RNAV1
002	DF	DOSUL	-	-	-0.7	-	L	+FL100	-230	-	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)	Navigation specification
MAPAX5B Minimum climb gradient of 7.0% up to LUKEP. Minimum climb gradient of 4.0% from LUKEP up to MAPAX. - DME BLV must be operational for (DME/DME/IRU).											
001	CF	LUKEP	Y	116 (116.7)	-0.7	-	-	-	-	-	RNAV1
002	DF	MAPAX	-	-	-0.7	-	L	+FL100	-230	-	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)	Navigation specification
PPN3H Minimum climb gradient of 7.0 % up to BB700.											
001	CF	BB700	-	116 (116.7)	-0.7	-	-	-	-	-	RNAV1
002	TF	PPN	-	123 (123.8)	-0.7	50.3	-	-	-	-	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)	Navigation specification
SSN4B Minimum climb gradient of 7.0 % up to LUKEP.											
001	CF	LUKEP	Y	116 (116.7)	-0.7	-	-	-	-	-	RNAV1
002	TF	SSN	-	084 (084.5)	-0.7	41.3	-	-	-	-	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)	Navigation specification
XIZCA1B Minimum climb gradient of 7.0 % up to LUKEP. Minimum climb gradient of 4.7 % from LUKEP up to XIZCA. - DME BLV must be operational for (DME/DME/IRU).											
001	CF	LUKEP	Y	116 (116.7)	-0.7	-	-	-	-	-	RNAV1
002	DF	XIZCA	-	-	-0.7	-	L	+FL100	-230	-	RNAV1

CLOSE-IN OBSTACLES WHICH PENETRATE THE OIS

OBS	RWY	LAT	LON	HGT	ELEV
OBS	RWY	LAT	LON	HGT	ELEV
LEBB-OBS-03717-003-2024	12	431734.5N	0025241.7W	182	279
LEBB-OBS-03717-002-2024	12	431734.6N	0025241.7W	179	275
LEBB-OBS-03717-001-2024	12	431734.5N	0025241.6W	172	268
LEBB-OBS-02706-007-2024	12	431737.6N	0025309.8W	85	242
LEBB-OBS-02706-006-2024	12	431737.5N	0025308.8W	79	237
LEBB-OBS-02708-004-2024	12	431735.5N	0025310.2W	91	235
LEBB-OBS-02706-005-2024	12	431738.2N	0025310.0W	78	236
LEBB-OBS-02713-002-2024	12	431736.7N	0025310.1W	83	232
LEBB-OBS-00004-001-2024	12	431736.5N	0025307.7W	66	229
LEBB-OBS-02711-002-2024	12	431734.6N	0025309.2W	86	228
LEBB-OBS-02708-003-2024	12	431735.9N	0025310.6W	77	223
LEBB-OBS-02706-004-2024	12	431737.4N	0025308.6W	64	223
LEBB-OBS-02706-003-2024	12	431737.5N	0025308.2W	61	222
LEBB-OBS-02706-001-2024	12	431737.6N	0025309.7W	61	219
LEBB-OBS-00004-002-2024	12	431736.9N	0025307.7W	56	219
LEBB-OBS-02710-003-2024	12	431733.4N	0025309.9W	87	218
LEBB-OBS-02706-002-2024	12	431738.5N	0025310.1W	59	217
LEBB-OBS-02711-003-2024	12	431734.7N	0025310.4W	80	216
LEBB-OBS-02713-001-2024	12	431736.5N	0025308.5W	54	214
LEBB-OBS-00005-002-2024	12	431734.0N	0025308.0W	72	213
LEBB-OBS-07758-002-2024	12	431739.7N	0025307.9W	41	210
LEBB-OBS-02078-001-2024	12	431735.5N	0025310.2W	60	206
LEBB-OBS-00002-002-2024	12	431743.5N	0025312.8W	45	206
LEBB-OBS-02724-000-2024	12	431740.0N	0025313.5W	60	207
LEBB-OBS-02938-000-2024	12	431745.4N	0025320.2W	69	207
LEBB-OBS-00002-001-2024	12	431743.6N	0025313.1W	37	198
LEBB-OBS-00003-001-2024	12	431744.8N	0025316.3W	45	196
LEBB-OBS-07902-000-2024	12	431740.1N	0025317.7W	65	197
LEBB-OBS-02432-000-2024	12	431743.2N	0025321.1W	66	195
LEBB-OBS-09744-000-2024	12	431745.2N	0025319.6W	55	194
LEBB-OBS-07752-000-2024	12	431743.3N	0025320.7W	63	194
LEBB-OBS-03706-002-2024	12	431741.9N	0025315.3W	41	191
LEBB-OBS-03708-001-2024	12	431743.7N	0025314.6W	32	190
LEBB-OBS-07462-000-2024	12	431742.2N	0025322.5W	69	192
LEBB-OBS-03708-002-2024	12	431743.7N	0025314.7W	32	189
LEBB-OBS-02433-000-2024	12	431743.5N	0025321.6W	59	187
LEBB-OBS-09772-000-2024	12	431739.9N	0025322.9W	67	181
LEBB-OBS-09751-000-2024	12	431741.8N	0025322.8W	59	180
LEBB-OBS-08256-000-2024	12	431744.4N	0025325.7W	62	178
LEBB-OBS-00522-000-2024	12	431744.2N	0025328.3W	68	175
LEBB-OBS-02729-000-2024	12	431739.9N	0025326.1W	69	174
LEBB-OBS-00523-000-2024	12	431744.6N	0025328.1W	61	170
LEBB-OBS-09756-000-2024	12	431744.0N	0025330.6W	62	162
LEBB-OBS-02435-000-2024	12	431745.9N	0025322.7W	18	56
LEBB-OBS-00003-002-2024	12	432844.9N	0025316.2W	15	61

OBS	RWY	LAT	LON	HGT	ELEV
LEBB-OBS-02434-000-2024	12	431745.5N	0025320.6W	20	61

SIGNIFICANT OBSTACLES

OBS	RWY	LAT	LON	HGT	ELEV
Terrain	12	431257.7N	0023713.4W	0	2251
Terrain	12	431255.5N	0023713.4W	0	2210
Terrain	12	431339.2N	0023529.8W	0	3344
Terrain	12	431458.2N	0024940.5W	0	1222
Terrain	12	431645.2N	0024806.0W	0	7940
Terrain	12	431626.1N	0024427.6W	0	1729
Terrain	12	431440.7N	0024657.1W	0	1058
Terrain	12	431632.0N	0024425.8W	0	1824
Terrain	12	430714.5N	0024050.0W	0	3313
Terrain	12	430402.9N	0024742.8W	0	4266
Terrain	12	431201.6N	0025847.7W	0	3064
Terrain	12	431557.9N	0024312.6W	0	1803
Terrain	12	430843.3N	0024145.1W	0	3308
Terrain	12	430433.0N	0024830.6W	0	3672
Terrain	12	431033.2N	0024944.4W	0	2093
Terrain	12	430524.1N	0023049.3W	0	3671
LEBB-OBS-00011-004-2024	12	431635.6N	0025151.8W	55	403
LEBB-OBS-00518-000-2024	12	431639.6N	0024904.1W	103	871
LEBB-OBS-00600-000-2024	12	431536.7N	0024946.3W	69	752
LEBB-OBS-00603-000-2024	12	431640.0N	0024913.0W	120	872
LEBB-OBS-00607-000-2024	12	431515.5N	0024914.3W	85	939
LEBB-OBS-00608-000-2024	12	431440.9N	0024656.8W	70	1132
LEBB-OBS-00625-000-2024	12	431713.3N	0024550.5W	71	1281
LEBB-OBS-00626-000-2024	12	431730.6N	0024621.7W	92	1264
LEBB-OBS-00627-000-2024	12	431652.2N	0024514.0W	98	1293
LEBB-OBS-00630-000-2024	12	431631.4N	0024427.4W	27	1853
LEBB-OBS-00631-000-2024	12	431631.3N	0024425.7W	60	1885
LEBB-OBS-00632-000-2024	12	431628.3N	0024406.0W	4	1839
LEBB-OBS-00720-000-2024	12	431516.7N	0024913.1W	27	859
LEBB-OBS-00799-000-2024	12	431517.6N	0025030.6W	32	1426
LEBB-OBS-00800-000-2024	12	431514.6N	0025020.3W	6	1383
LEBB-OBS-00801-000-2024	12	431529.3N	0025123.3W	323	1637
LEBB-OBS-00802-000-2024	12	431455.6N	0024941.8W	37	1277
LEBB-OBS-00803-000-2024	12	431536.5N	0025155.3W	138	1686
LEBB-OBS-02586-000-2024	12	431633.1N	0025158.5W	46	431
LEBB-OBS-02591-000-2024	12	431631.6N	0025153.9W	70	457
LEBB-OBS-03009-008-2024	12	431538.7N	0025157.7W	35	1581
LEBB-OBS-03021-000-2024	12	431536.7N	0025157.2W	99	1632
LEBB-OBS-03022-000-2024	12	431535.3N	0025155.7W	77	1614
LEBB-OBS-03023-000-2024	12	431537.8N	0025157.2W	60	1612
LEBB-OBS-03025-000-2024	12	431537.1N	0025155.8W	128	1684

OBS	RWY	LAT	LON	HGT	ELEV
LEBB-OBS-03027-000-2024	12	431538.4N	0025157.4W	26	1573
LEBB-OBS-03028-000-2024	12	431537.9N	0025156.4W	89	1647
LEBB-OBS-03029-000-2024	12	431538.2N	0025156.5W	66	1621
LEBB-OBS-03030-000-2024	12	431537.4N	0025154.0W	139	1679
LEBB-OBS-03717-004-2024	12	431734.8N	0025241.5W	185	282
LEBB-OBS-04002-000-2024	12	431441.9N	0024656.2W	61	1084
LEBB-OBS-04003-000-2024	12	431639.4N	0024918.1W	28	714
LEBB-OBS-04004-000-2024	12	431442.0N	0024655.8W	51	1063
LEBB-OBS-07647-000-2024	12	431246.8N	0023439.1W	263	3047
LEBB-OBS-07648-000-2024	12	431244.4N	0023435.8W	266	3041
LEBB-OBS-07651-000-2024	12	431237.9N	0023420.2W	261	3056
LEBB-OBS-07659-000-2024	12	431237.9N	0023344.4W	266	2896
LEBB-OBS-07660-000-2024	12	431234.8N	0023343.1W	266	2828
LEBB-OBS-07661-000-2024	12	431347.1N	0023617.8W	230	3183
LEBB-OBS-07662-000-2024	12	431345.5N	0023613.0W	230	3226
LEBB-OBS-07663-000-2024	12	431344.0N	0023607.5W	230	3230
LEBB-OBS-07664-000-2024	12	431352.1N	0023617.7W	77	3058
LEBB-OBS-07673-000-2024	12	431411.6N	0023647.7W	274	2859
LEBB-OBS-07674-000-2024	12	431408.8N	0023643.5W	274	2852
LEBB-OBS-07675-000-2024	12	431403.5N	0023636.0W	274	2918
LEBB-OBS-07676-000-2024	12	431400.9N	0023632.5W	274	2959
LEBB-OBS-07677-000-2024	12	431358.5N	0023628.3W	274	3012
LEBB-OBS-07678-000-2024	12	431517.4N	0025029.5W	39	1429
LEBB-OBS-07679-000-2024	12	431517.8N	0025029.8W	54	1447
LEBB-OBS-07681-000-2024	12	431518.1N	0025032.3W	58	1422
LEBB-OBS-07682-000-2024	12	431517.4N	0025030.8W	38	1426
LEBB-OBS-07683-000-2024	12	431520.8N	0025039.7W	72	1436
LEBB-OBS-07684-000-2024	12	431523.2N	0025040.9W	82	1389
LEBB-OBS-07687-000-2024	12	431649.6N	0024510.3W	120	1310
LEBB-OBS-07688-000-2024	12	431656.2N	0024521.7W	90	1244
LEBB-OBS-07697-000-2024	12	431435.9N	0024658.4W	98	1115
LEBB-OBS-07698-000-2024	12	431434.6N	0024658.7W	98	1098
LEBB-OBS-07699-000-2024	12	431432.2N	0024700.0W	102	1041
LEBB-OBS-07700-000-2024	12	431439.8N	0024701.5W	72	1105
LEBB-OBS-07701-001-2024	12	431504.9N	0024859.6W	124	805
LEBB-OBS-07701-002-2024	12	431515.0N	0024858.1W	93	817
LEBB-OBS-07702-000-2024	12	431514.1N	0024908.0W	115	857
LEBB-OBS-07703-000-2024	12	431515.3N	0024911.3W	85	899
LEBB-OBS-07704-000-2024	12	431509.1N	0024905.7W	108	837
LEBB-OBS-07705-000-2024	12	431640.0N	0024916.4W	77	813
LEBB-OBS-07706-000-2024	12	431640.0N	0024919.0W	75	767
LEBB-OBS-07707-000-2024	12	431539.0N	0025009.1W	79	939
LEBB-OBS-07770-000-2024	12	431514.4N	0025020.3W	33	1410
LEBB-OBS-07771-000-2024	12	431535.8N	0025155.8W	19	1557
LEBB-OBS-07772-000-2024	12	431535.8N	0025156.3W	11	1547
LEBB-OBS-07774-001-2024	12	431535.6N	0025156.5W	14	1551

OBS	RWY	LAT	LON	HGT	ELEV
LEBB-OBS-07774-002-2024	12	431535.6N	0025156.6W	18	1554
LEBB-OBS-07775-000-2024	12	431535.3N	0025154.1W	44	1574
LEBB-OBS-07776-001-2024	12	431500.6N	0025202.5W	329	1484
LEBB-OBS-07776-002-2024	12	431500.5N	0025202.5W	322	1476
LEBB-OBS-08279-000-2024	12	431556.7N	0025042.7W	83	616
LEBB-OBS-08287-000-2024	12	431632.6N	0025157.7W	33	428
LEBB-OBS-08337-000-2024	12	431441.6N	0024656.4W	52	1091
LEBB-OBS-08338-000-2024	12	431638.6N	0024918.6W	50	695
LEBB-OBS-08339-000-2024	12	431441.3N	0024656.3W	44	1091
LEBB-OBS-08373-000-2024	12	431342.4N	0023543.5W	87	3361
LEBB-OBS-08374-001-2024	12	431342.2N	0023541.8W	220	3501
LEBB-OBS-08374-002-2024	12	431342.2N	0023541.8W	213	3494
LEBB-OBS-08374-003-2024	12	431342.2N	0023541.7W	148	3429
LEBB-OBS-08375-000-2024	12	431341.3N	0023539.2W	66	3371
LEBB-OBS-08917-000-2024	12	431551.2N	0025059.8W	78	779
LEBB-OBS-08933-000-2024	12	431545.0N	0025046.7W	90	798
LEBB-OBS-08982-001-2024	12	431700.8N	0024526.1W	30	1106
LEBB-OBS-08982-002-2024	12	431700.7N	0024526.0W	31	1107
LEBB-OBS-08982-003-2024	12	431702.5N	0024526.5W	38	1094
LEBB-OBS-09500-001-2024	12	431115.7N	0024333.9W	223	1636
LEBB-OBS-09713-001-2024	12	431117.1N	0024356.1W	147	1630
LEBB-OBS-09713-002-2024	12	431119.3N	0024433.8W	230	1712