LEMD
Barajas

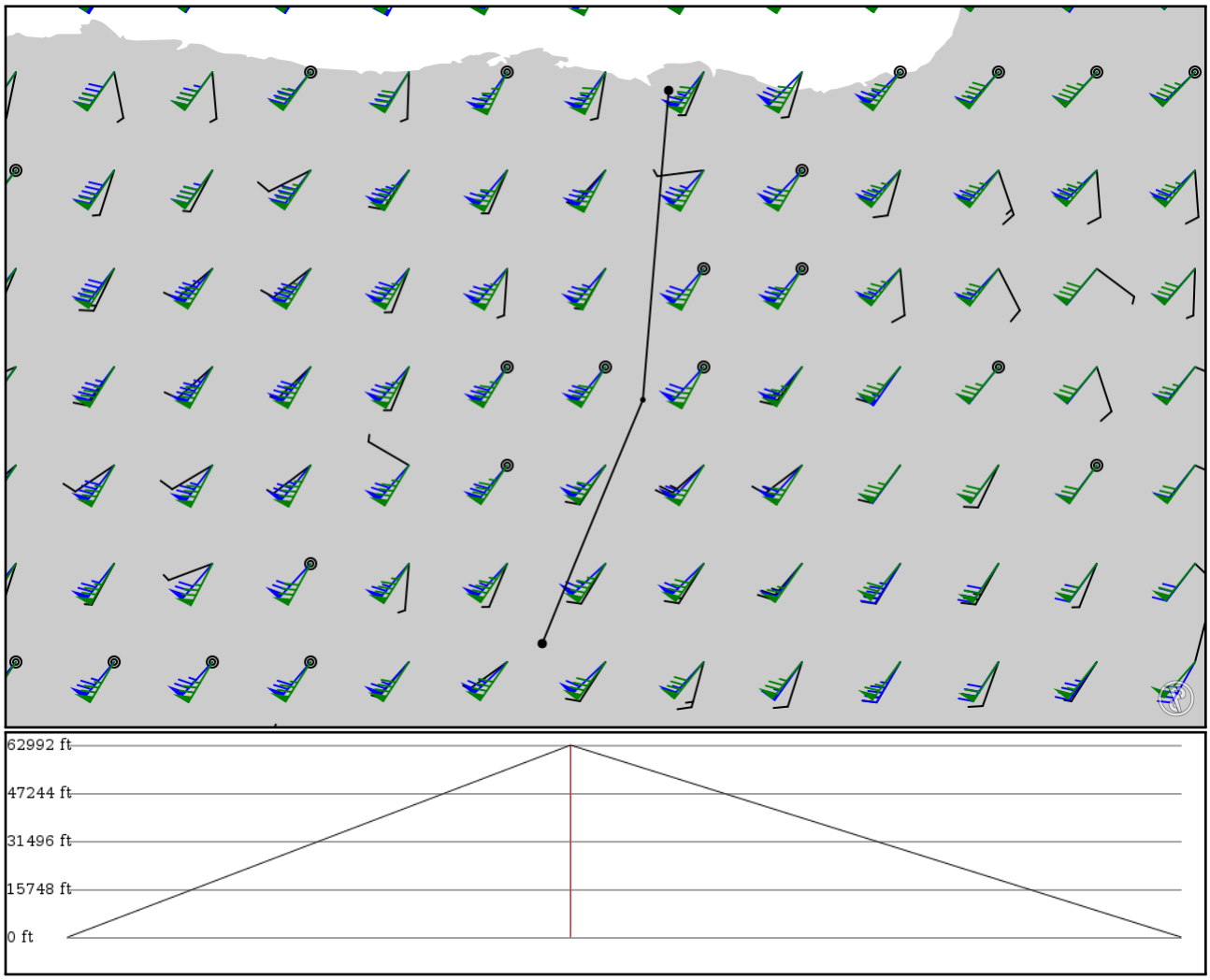
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LEBB
Bilbao

2024/03/29 0551Z

LEMD GASMO LEBB

172.54 nm / 319.54 km



Notes

Basic altitude profile:
- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 35000ft
- Cruise Speed: 420kts
- Descent Rate: 1500ft/min
- Descent Speed: 250kts

Options:
- Use NATs: yes
- Use PACOTS: yes
- Use low airways: no
- Use high airways: yes

Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
LEMD APT	–	40.49045 -3.56061	0 ft 0 m	–	Barajas
GASMO FIX	–	41.72948 -3.04875	19,200 ft 5,852 m	77	–
LEBB APT	–	43.30169 -2.91766	0 ft 0 m	94	Bilbao

LEMD

Region: SPAIN
Timezone: EUROPE/MADRID
Runways: 4

Elevation: 1,998 ft / 609 m
Location: 40.495300 -3.560200
Magnetic Var: 0.065 E

METAR

LEMD 290530Z 18007KT 6000 DZ BKN007 BKN040 08/07 Q0997 NOSIG

TAF

TAF TAF LEMD 282300Z 2900/3006 22014KT 9999 SCT020 SCT040 TX14/2918Z TN05/3000Z PROB30 TEMPO 2900/2922 4000 RA PR

Frequencies

REC - 130.85 MHz - ATIS DEPARTURE
TWR - 120.65 MHz - BARAJAS TOWER
TWR - 119.50 MHz - BARAJAS TOWER
GND - 121.75 MHz - BARAJAS GROUND
GND - 121.70 MHz - BARAJAS APRON
GND - 121.85 MHz - BARAJAS APRON
CLD - 130.35 MHz - CLEARANCE DELIVERY
APP - 127.50 MHz - MADRID APPROACH
APP - 134.00 MHz - MADRID APPROACH
APP - 127.10 MHz - MADRID APPROACH
APP - 118.75 MHz - MADRID APPROACH
DEP - 131.17 MHz - MADRID DEPARTURE
APP - 134.95 MHz - MADRID DIRECT

REC - 118.25 MHz - ATIS ARRIVAL
TWR - 120.15 MHz - BARAJAS TOWER
TWR - 118.15 MHz - BARAJAS TOWER
GND - 123.15 MHz - BARAJAS GROUND
GND - 123.25 MHz - BARAJAS APRON
GND - 123.00 MHz - BARAJAS APRON
CLD - 130.00 MHz - CLEARANCE DELIVERY
APP - 136.10 MHz - MADRID APPROACH
APP - 130.80 MHz - MADRID APPROACH
APP - 124.00 MHz - MADRID APPROACH
APP - 118.40 MHz - MADRID APPROACH
DEP - 124.22 MHz - MADRID DEPARTURE
APP - 128.70 MHz - MADRID DIRECT

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
14R	197 ft 60 m	13,097 ft 3,992 m	142.31 142.24	ASPHALT	0 ft 0 m	0 ft 0 m
32L	197 ft 60 m	13,097 ft 3,992 m	322.32 322.26	ASPHALT	3,041 ft 927 m	0 ft 0 m
18R	197 ft 60 m	13,723 ft 4,183 m	179.75 179.69	ASPHALT	2,644 ft 806 m	0 ft 0 m
36L	197 ft 60 m	13,723 ft 4,183 m	359.75 359.69	ASPHALT	0 ft 0 m	0 ft 0 m
14L	197 ft 60 m	11,494 ft 3,504 m	142.31 142.25	ASPHALT	0 ft 0 m	0 ft 0 m
32R	197 ft 60 m	11,494 ft 3,504 m	322.33 322.27	ASPHALT	1,627 ft 496 m	0 ft 0 m
18L	197 ft 60 m	11,494 ft 3,503 m	179.76 179.70	ASPHALT	1,621 ft 494 m	0 ft 0 m
36R	197 ft 60 m	11,494 ft 3,503 m	359.76 359.70	ASPHALT	0 ft 0 m	0 ft 0 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
18L	DME	IML	111.50 MHz	18 nm 33 km	- -	-	1,916 ft 1,916 m
18R	DME	IMR	110.70 MHz	18 nm 33 km	- -	-	1,986 ft 1,986 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
32L	DME	MAA	109.90 MHz	18 nm	– –	–	1,998 ft 1,998 m
32R	DME	MBB	109.10 MHz	18 nm 33 km	– –	–	1,998 ft 1,998 m
18L	LOC-ILS	IML	111.50 MHz	18 nm 33 km	179.76 179.70	–	1,998 ft 1,998 m
18R	LOC-ILS	IMR	110.70 MHz	18 nm 33 km	179.75 179.69	–	1,998 ft 1,998 m
32L	LOC-ILS	MAA	109.90 MHz	18 nm 33 km	322.32 322.26	–	1,998 ft 1,998 m
32R	LOC-ILS	MBB	109.10 MHz	18 nm 33 km	322.33 322.27	–	1,998 ft 1,998 m
18L	GS	IML	111.50 MHz	10 nm 19 km	179.76 179.70	3.00	1,998 ft 1,998 m
18R	GS	IMR	110.70 MHz	10 nm 19 km	179.75 179.69	3.00	1,978 ft 1,978 m
32L	GS	MAA	109.90 MHz	10 nm 19 km	322.32 322.26	3.00	1,998 ft 1,998 m
32R	GS	MBB	109.10 MHz	10 nm 19 km	322.33 322.27	3.00	1,998 ft 1,998 m

LEBB

Region: SPAIN
Timezone: EUROPE/MADRID
Runways: 2

Elevation: 136 ft / 41 m
Location: 43.301700 -2.917430
Magnetic Var: 0.157 E

METAR

LEBB 290530Z 19005KT 150V250 CAVOK 12/06 Q0994 NOSIG

TAF

TAF LEBB 282300Z 2900/2924 20009KT 9999 FEW015 TX14/2915Z TN08/2924Z PROB40 TEMPO 2908/2911 20015G25KT PROB40 TEM

Frequencies

TWR - 118.50 MHz - BILBAO TOWER
APP - 120.70 MHz - BILBAO APPROACH
GND - 121.70 MHz - BILBAO GROUND
REC - 118.82 MHz - ATIS

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
10	148 ft 45 m	6,264 ft 1,909 m	96.65 96.50	ASPHALT	0 ft 0 m	0 ft 0 m
28	148 ft 45 m	6,264 ft 1,909 m	276.67 276.51	ASPHALT	1,808 ft 551 m	0 ft 0 m
12	148 ft 45 m	8,520 ft 2,597 m	116.73 116.58	ASPHALT	0 ft 0 m	194 ft 59 m
30	148 ft 45 m	8,520 ft 2,597 m	296.75 296.60	ASPHALT	1,496 ft 456 m	187 ft 57 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
12	DME	IBO	111.55 MHz	13 nm 24 km	- -	-	133 ft 133 m
30	DME	IBL	110.30 MHz	13 nm 24 km	- -	-	132 ft 132 m
12	LOC-ILS	IBO	111.55 MHz	18 nm 33 km	116.73 116.57	-	137 ft 137 m
30	LOC-ILS	IBL	110.30 MHz	18 nm 33 km	296.73 296.57	-	137 ft 137 m
12	GS	IBO	111.55 MHz	10 nm 19 km	116.73 116.57	3.10	137 ft 137 m
30	GS	IBL	110.30 MHz	10 nm 19 km	296.73 296.57	3.40	137 ft 137 m