

LEBB

Bilbao

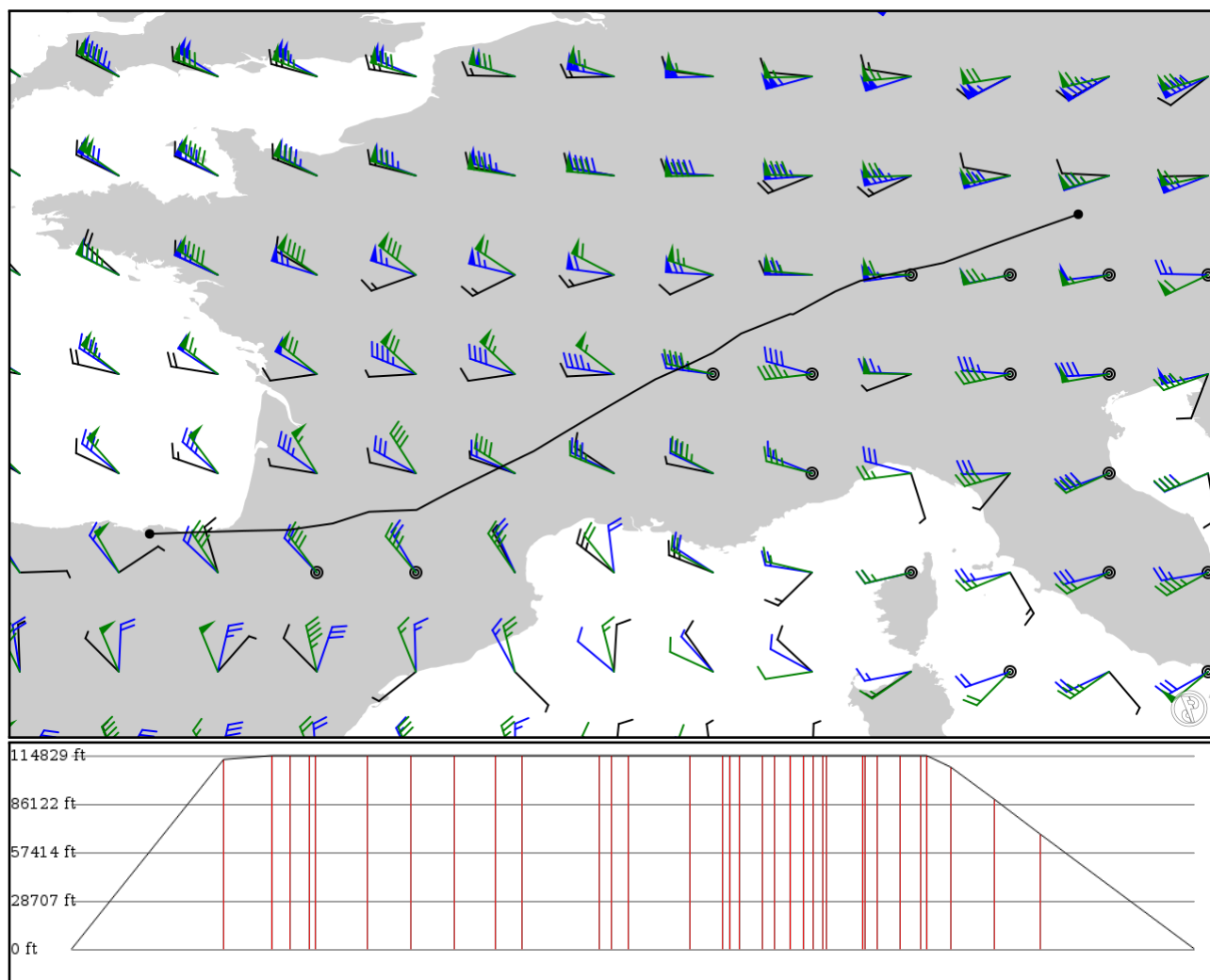
EDDM

Muenchen International Airport Franz-Josef Strauss

2024/06/08 2116Z

LEBB ORTEZ **G17** AUCHE **G5** TOU **UN871** MEN **G5** FRI **W112** TELNO **UN871** DITON **T103** NUNRI EDDM

709.35 nm / 1313.72 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: yes
- Use high airways: yes

Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
LEBB	-	43.30170	0 ft	-	Bilbao
APT	-	-2.91743	0 m		
ORTEZ	-	43.36560	34,300 ft	96	-
FIX	-	-0.71667	10,455 m		
LMB	G17	43.46670	35,000 ft	31	LEMBEYE
VOR	AWY-LO	-0.01842	10,668 m		
DISIS	G17	43.54190	35,000 ft	11	-
FIX	AWY-LO	0.21472	10,668 m		
USAKU	G17	43.62420	35,000 ft	12	-
FIX	AWY-LO	0.47222	10,668 m		
AUCHE	G17	43.65140	35,000 ft	4	-
FIX	AWY-LO	0.55833	10,668 m		
TOU	G5	43.68080	35,000 ft	32	TOULOUSE BLAGNAC
VOR	AWY-LO	1.30981	10,668 m		
GAI	UN871	43.95410	35,000 ft	27	GAILLAC
VOR	AWY-HI	1.82417	10,668 m		
MAKIL	UN871	44.20970	35,000 ft	27	-
FIX	AWY-HI	2.33972	10,668 m		
GONIM	UN871	44.45440	35,000 ft	26	-
FIX	AWY-HI	2.84222	10,668 m		
MEN	UN871	44.60840	35,000 ft	16	MENDE
VOR	AWY-HI	3.16242	10,668 m		
MINDI	G5	45.13690	35,000 ft	49	-
FIX	AWY-LO	4.04222	10,668 m		
VEROT	G5	45.21640	35,000 ft	7	-
FIX	AWY-LO	4.17722	10,668 m		
MURRO	G5	45.33290	35,000 ft	10	-
FIX	AWY-LO	4.37556	10,668 m		
LSE	G5	45.74550	35,000 ft	38	LYON SAINT EXUPERY
VOR	AWY-LO	5.09058	10,668 m		
DEPUL	G5	45.92500	35,000 ft	20	-
FIX	AWY-LO	5.49444	10,668 m		
ARGIS	G5	45.97110	35,000 ft	5	-
FIX	AWY-LO	5.59917	10,668 m		
TOKDO	G5	46.02500	35,000 ft	5	-
FIX	AWY-LO	5.71111	10,668 m		
PAS	G5	46.16370	35,000 ft	14	PASSEIRY
VOR	AWY-LO	5.99992	10,668 m		
GVA	G5	46.25390	35,000 ft	7	GENEVA
VOR	AWY-LO	6.13222	10,668 m		
PETAL	G5	46.36810	35,000 ft	9	-
FIX	AWY-LO	6.30028	10,668 m		
SPR	G5	46.46870	35,000 ft	8	ST PREX
VOR	AWY-LO	6.44806	10,668 m		
SPR06	G5	46.51860	35,000 ft	5	-
FIX	AWY-LO	6.57333	10,668 m		
SPR12	G5	46.56860	35,000 ft	5	-
FIX	AWY-LO	6.69861	10,668 m		
REVL I	G5	46.58640	35,000 ft	2	-
FIX	AWY-LO	6.74333	10,668 m		
FRI	G5	46.77760	35,000 ft	22	FRIBOURG
VOR	AWY-LO	7.22350	10,668 m		
TELNO	W112	46.77200	35,000 ft	1	-

Ident Type	Via		Lat Lon	Alt		Dist (nm)	Name
FIX	AWY-HI		7.27081	10,668 m			
KORED	UN871		46.85060	35,000 ft		7	-
FIX	AWY-HI		7.41417	10,668 m			
KONOL	UN871		46.99530	35,000 ft		13	-
FIX	AWY-HI		7.68083	10,668 m			
BERSU	UN871		47.13550	35,000 ft		13	-
FIX	AWY-HI		7.94131	10,668 m			
SUREP	UN871	47.16530	35,000 ft	3	-		
FIX	AWY-HI	8.01083	10,668 m				
DITON	UN871	47.30220	32,900 ft	15	-		
FIX	AWY-HI	8.33333	10,028 m				
KUDIS	T103	47.44110	27,100 ft	27	-		
FIX	AWY-HI	8.96694	8,260 m				
NUNRI	T103	47.58670	20,800 ft	29	-		
FIX	AWY-HI	9.65250	6,340 m				
EDDM	-	48.35380	0 ft	97	Muenchen International Airport Franz-Josef Strauss		
APT	-	11.78610	0 m				

LEBB

Region: SPAIN
Timezone: EUROPE/MADRID
Runways: 2

Elevation: 136 ft / 41 m
Location: 43.301700 -2.917430
Magnetic Var: 0.181 E

METAR

LEBB 082100Z 28006KT 250V320 9999 -RA SCT015 BKN028 18/16 Q1014 NOSIG

TAF

TAF LEBB 081700Z 0818/0918 30007KT 8000 BKN020 TX19/0914Z TN15/0905Z TEMPO 0818/0912 BKN010 PROB30 TEMPO 0820/0900

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	6,264 ft	96.65	ASPHALT	0 ft	0 ft
	45 m	1,909 m	96.47		0 m	0 m
28	148 ft	6,264 ft	276.67	ASPHALT	1,808 ft	0 ft
	45 m	1,909 m	276.49		551 m	0 m
12	148 ft	8,520 ft	116.73	ASPHALT	0 ft	194 ft
	45 m	2,597 m	116.55		0 m	59 m
30	148 ft	8,520 ft	296.75	ASPHALT	1,496 ft	187 ft
	45 m	2,597 m	296.57		456 m	57 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
12	DME	IBO	111.55 MHz	13 nm	-	-	133 ft
				24 km	-		133 m
30	DME	IBL	110.30 MHz	13 nm	-	-	132 ft
				24 km	-		132 m
12	LOC-ILS	IBO	111.55 MHz	18 nm	116.73	-	137 ft
				33 km	116.55		137 m
30	LOC-ILS	IBL	110.30 MHz	18 nm	296.73	-	137 ft
				33 km	296.55		137 m
12	GS	IBO	111.55 MHz	10 nm	116.73	3.10	137 ft
				19 km	116.55		137 m
30	GS	IBL	110.30 MHz	10 nm	296.73	3.40	137 ft
				19 km	296.55		137 m

EDDM

Region: GERMANY - CIVIL
Timezone: EUROPE/BERLIN
Runways: 2

Elevation: 1,484 ft / 452 m
Location: 48.353800 11.786100
Magnetic Var: 3.950 E

METAR

EDDM 082050Z AUTO 19004KT 150V230 9999 -RA NSC 17/16 Q1012 NOSIG

TAF

TAF EDDM 081700Z 0818/0924 26005KT 9999 SCT040 PROB30 TEMPO 0818/0903 SHRA SCT035CB BKN040 PROB30 TEMPO 0906/0908

Frequencies

REC - 123.12 MHz - MUENCHEN ATIS	COM - 122.80 MHz - MUENCHEN UNICOM
CLD - 121.72 MHz - MUENCHEN DELIVERY	GND - 121.97 MHz - MUENCHEN GROUND NORTH
GND - 121.82 MHz - MUENCHEN GROUND SOUTH	GND - 121.77 MHz - MUENCHEN APRON 1
GND - 121.70 MHz - MUENCHEN APRON 2	GND - 121.92 MHz - MUENCHEN APRON 3
TWR - 120.50 MHz - MUENCHEN TOWER SOUTH	TWR - 118.70 MHz - MUENCHEN TOWER NORTH
APP - 123.90 MHz - MUENCHEN RADAR NORTH	APP - 127.95 MHz - MUENCHEN RADAR SOUTH
APP - 128.25 MHz - MUENCHEN ARRIVAL NORTH	APP - 120.77 MHz - MUENCHEN ARRIVAL SOUTH
APP - 118.82 MHz - MUENCHEN DIRECTOR NORTH	APP - 132.30 MHz - MUENCHEN DIRECTOR SOUTH

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
08L	197 ft	13,135 ft	83.39	CONCRETE	0 ft	0 ft
	60 m	4,004 m	79.44		0 m	0 m
26R	197 ft	13,135 ft	263.43	CONCRETE	0 ft	0 ft
	60 m	4,004 m	259.48		0 m	0 m
08R	197 ft	13,135 ft	83.37	CONCRETE	0 ft	0 ft
	60 m	4,004 m	79.42		0 m	0 m
26L	197 ft	13,135 ft	263.41	CONCRETE	0 ft	0 ft
	60 m	4,004 m	259.46		0 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
08L	LOC-ILS	IMNE	109.50 MHz	18 nm	83.41	-	1,484 ft
				33 km	79.46		1,484 m
08R	LOC-ILS	IMSE	109.30 MHz	18 nm	83.39	-	1,484 ft
				33 km	79.44		1,484 m
26L	LOC-ILS	IMSW	108.30 MHz	18 nm	263.39	-	1,484 ft
				33 km	259.44		1,484 m
26R	LOC-ILS	IMNW	108.70 MHz	18 nm	263.41	-	1,484 ft
				33 km	259.46		1,484 m
08L	GS	IMNE	109.50 MHz	10 nm	83.41	3.00	1,484 ft
				19 km	79.46		1,484 m
08R	GS	IMSE	109.30 MHz	10 nm	83.39	3.00	1,484 ft
				19 km	79.44		1,484 m
26L	GS	IMSW	108.30 MHz	10 nm	263.39	3.00	1,484 ft
				19 km	259.44		1,484 m
26R	GS	IMNW	108.70 MHz	10 nm	263.41	3.00	1,484 ft
				19 km	259.46		1,484 m