

ENGM

Oslo Gardermoen

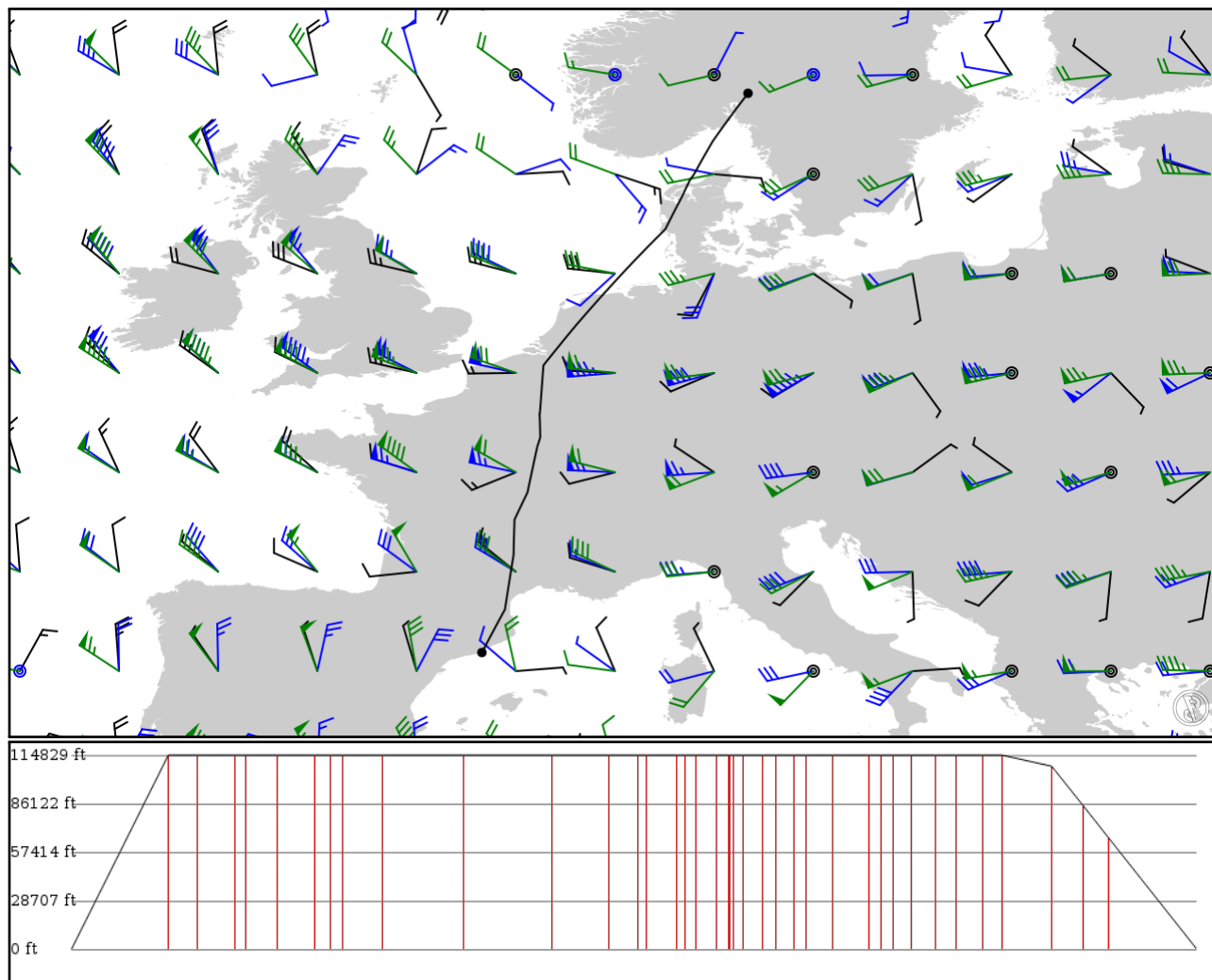
LEBL

Josep Tarradellas Barcelona-El Prat

2024/05/09 0149Z

ENGM ELKOP **P601** BAVTA **Z709** LANUL **UZ709** BARTU **UY131** MOPIL **UZ319** XERAM **Z319** SOTUS **Q763** GITAN **Y50**
REM REM **B3** VATRI **G40** TRO **B373** MOU **A27** CFA **UY27** MEN **A27** SIJAN **UY27** PPG LEBL

1198.74 nm / 2220.06 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
ENGM	-	60.19450	0 ft	-	Oslo Gardermoen
APT	-	11.09890	0 m		
ELKOP	-	58.58330	35,000 ft	103	-
FIX	-	9.90896	10,668 m		
NIROD	P601	58.07850	35,000 ft	31	-
FIX	AWY-HI	9.61678	10,668 m		
LAGUM	P601	57.45560	35,000 ft	39	-
FIX	AWY-HI	9.26833	10,668 m		
OSGAM	P601	57.26670	35,000 ft	12	-
FIX	AWY-HI	9.13333	10,668 m		
KEMEG	P601	56.72080	35,000 ft	33	-
FIX	AWY-HI	8.87250	10,668 m		
IRKAM	P601	56.07920	35,000 ft	40	-
FIX	AWY-HI	8.53944	10,668 m		
EPILO	P601	55.82780	35,000 ft	15	-
FIX	AWY-HI	8.41222	10,668 m		
BAVTA	P601	55.60310	35,000 ft	14	-
FIX	AWY-HI	8.30000	10,668 m		
LANUL	Z709	55.00000	35,000 ft	41	-
FIX	AWY-HI	7.69722	10,668 m		
KUVEK	UZ709	53.73470	35,000 ft	86	-
FIX	AWY-HI	6.50000	10,668 m		
OMORU	UZ709	52.35290	35,000 ft	94	-
FIX	AWY-HI	5.27227	10,668 m		
RUPIN	UZ709	51.46050	35,000 ft	60	-
FIX	AWY-HI	4.54052	10,668 m		
BARTU	UZ709	51.00310	35,000 ft	30	-
FIX	AWY-HI	4.17167	10,668 m		
LERVO	UY131	50.83310	35,000 ft	10	-
FIX	AWY-HI	4.15861	10,668 m		
NILEM	UY131	50.29670	35,000 ft	32	-
FIX	AWY-HI	4.11889	10,668 m		
MOFIL	UY131	50.14780	35,000 ft	8	-
FIX	AWY-HI	4.10778	10,668 m		
KENAP	UZ319	49.95860	35,000 ft	11	-
FIX	AWY-HI	4.09389	10,668 m		
XERAM	UZ319	49.59670	35,000 ft	21	-
FIX	AWY-HI	4.06722	10,668 m		
SOTUS	Z319	49.38000	35,000 ft	13	-
FIX	AWY-LO	4.05028	10,668 m		
GITAN	Q763	49.37690	35,000 ft	0	-
FIX	AWY-LO	4.03472	10,668 m		
REM	Y50	49.31160	35,000 ft	3	REIMS
VOR	AWY-LO	4.04536	10,668 m		
REM	-	49.30970	35,000 ft	0	REIMS CHAMPAGNE VORTAC
DME	-	4.04117	10,668 m		
DIKOL	B3	49.13750	35,000 ft	10	-
FIX	AWY-LO	4.04917	10,668 m		
VATRI	B3	48.79330	35,000 ft	20	-
FIX	AWY-LO	4.05833	10,668 m		
ARSIL	G40	48.56000	35,000 ft	14	-
FIX	AWY-LO	4.06167	10,668 m		
TRO	G40	48.25120	35,000 ft	18	TROYES BARBEREY

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
VOR	AWY-LO	3.96314	10,668 m		
LUREN	B373	48.02580	35,000 ft	13	-
FIX	AWY-LO	3.91389	10,668 m		
AVLON	B373	47.56000	35,000 ft	28	-
FIX	AWY-LO	3.81333	10,668 m		
NEPAP	B373	46.93390	35,000 ft	37	-
FIX	AWY-LO	3.67944	10,668 m		
MOU	B373	46.70680	35,000 ft	13	MOULINS
VOR	AWY-LO	3.63167	10,668 m		
BAKNO	A27	46.50000	35,000 ft	13	-
FIX	AWY-LO	3.53139	10,668 m		
PESAN	A27	46.19920	35,000 ft	19	-
FIX	AWY-LO	3.38722	10,668 m		
CFA	A27	45.78750	35,000 ft	26	CLERMONT FERRAND AUVERGNE
VOR	AWY-LO	3.19219	10,668 m		
MALEB	UY27	45.43080	35,000 ft	21	-
FIX	AWY-HI	3.18139	10,668 m		
MOKDI	UY27	44.95690	35,000 ft	28	-
FIX	AWY-HI	3.16694	10,668 m		
MEN	UY27	44.60840	35,000 ft	20	MENDE
VOR	AWY-HI	3.16242	10,668 m		
BRUSC	A27	43.74750	33,000 ft	52	-
FIX	AWY-LO	3.02333	10,058 m		
SIJAN	A27	43.19750	25,900 ft	33	-
FIX	AWY-LO	2.93694	7,894 m		
PPG	UY27	42.75050	20,100 ft	27	PERPIGNAN RIVESALTES
VOR	AWY-HI	2.86714	6,126 m		
LEBL	-	41.29510	0 ft	94	Josep Tarradellas Barcelona-El Prat
APT	-	2.08803	0 m		

ENGM

Region: NORWAY
Timezone: EUROPE/OSLO
Runways: 2

Elevation: 681 ft / 208 m
Location: 60.194500 11.098900
Magnetic Var: 4.480 E

METAR

ENGM 090120Z 15006KT 9999 BKN005 07/06 Q1022

TAF

TAF ENGM 082300Z 0900/0924 14007KT 9999 BKN012 TEMPO 0900/0909 BKN006 BECMG 0907/0909 20010KT BECMG 0913/0915 SCT

Frequencies

REC - 126.12 MHz - GARDERMOEN ARRIVAL INFORMATION
CLD - 121.67 MHz - GARDERMOEN DELIVERY WEST
GND - 121.75 MHz - GARDERMOEN GROUND
GND - 121.90 MHz - GARDERMOEN GROUND EAST
TWR - 120.10 MHz - GARDERMOEN TOWER
APP - 120.45 MHz - OSLO APPROACH

REC - 127.15 MHz - GARDERMOEN DEPARTURE INFORMATION
CLD - 121.92 MHz - GARDERMOEN DELIVERY EAST
GND - 121.60 MHz - GARDERMOEN GROUND WEST
TWR - 118.30 MHz - GARDERMOEN TOWER
APP - 118.47 MHz - OSLO APPROACH

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
01R	148 ft	9,664 ft	16.01	ASPHALT	0 ft	486 ft
	45 m	2,946 m	11.53		0 m	148 m
19L	148 ft	9,664 ft	196.02	ASPHALT	0 ft	489 ft
	45 m	2,946 m	191.54		0 m	149 m
01L	148 ft	11,797 ft	15.99	ASPHALT	0 ft	423 ft
	45 m	3,596 m	11.51		0 m	129 m
19R	148 ft	11,797 ft	196.01	ASPHALT	0 ft	486 ft
	45 m	3,596 m	191.53		0 m	148 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
01L	DME	OBW	110.30 MHz	18 nm	-	-	709 ft
				33 km	-		709 m
01R	DME	ONE	111.95 MHz	18 nm	-	-	723 ft
				33 km	-		723 m
19L	DME	GME	110.55 MHz	18 nm	-	-	729 ft
				33 km	-		729 m
19R	DME	GSW	111.30 MHz	18 nm	-	-	727 ft
				33 km	-		727 m
01L	LOC-ILS	OBW	110.30 MHz	18 nm	16.00	-	681 ft
				33 km	11.52		681 m
01R	LOC-ILS	ONE	111.95 MHz	18 nm	16.04	-	681 ft
				33 km	11.56		681 m
19L	LOC-ILS	GME	110.55 MHz	18 nm	196.04	-	681 ft
				33 km	191.56		681 m
19R	LOC-ILS	GSW	111.30 MHz	18 nm	196.00	-	681 ft
				33 km	191.52		681 m
01L	GS	OBW	110.30 MHz	10 nm	16.00	3.00	681 ft
				19 km	11.52		681 m
01R	GS	ONE	111.95 MHz	10 nm	16.04	3.00	681 ft
				19 km	11.56		681 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
19L	GS	GME	110.55 MHz	10 nm	196.04	3.00	681 ft
				19 km	191.56		681 m
19R	GS	GSW	111.30 MHz	10 nm	196.00	3.00	681 ft
				19 km	191.52		681 m

LEBL

Region: SPAIN
Timezone: EUROPE/MADRID
Runways: 3

Elevation: 14 ft / 4 m
Location: 41.295100 2.088030
Magnetic Var: 1.541 E

METAR

LEBL 090130Z 32004KT CAVOK 16/06 Q1019 NOSIG

TAF

TAF LEBL 082300Z 0900/0924 34006KT 9999 FEW020 TX22/0912Z TN13/0906Z BECMG 0906/0909 15007KT BECMG 0911/0913 2101

Frequencies

REC - 121.97 MHz - ATIS	REC - 118.65 MHz - ATIS
TWR - 118.32 MHz - BARCELONA TOWER	TWR - 118.10 MHz - BARCELONA TOWER
TWR - 122.82 MHz - BARCELONA TOWER	TWR - 122.10 MHz - BARCELONA TOWER
GND - 122.22 MHz - BARCELONA GROUND	GND - 121.70 MHz - BARCELONA GROUND
GND - 121.65 MHz - BARCELONA GROUND	CLD - 121.80 MHz - CLEARANCE DELIVERY
APP - 121.15 MHz - BARCELONA APPROACH	APP - 119.10 MHz - BARCELONA APPROACH
APP - 135.27 MHz - BARCELONA APPROACH	APP - 133.97 MHz - BARCELONA APPROACH
APP - 131.12 MHz - BARCELONA APPROACH	APP - 127.70 MHz - BARCELONA APPROACH
APP - 126.50 MHz - BARCELONA APPROACH	APP - 124.70 MHz - BARCELONA APPROACH
APP - 125.25 MHz - BARCELONA APPROACH	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
02	148 ft	8,307 ft	18.91	ASPHALT	0 ft	0 ft
	45 m	2,532 m	17.37		0 m	0 m
20	148 ft	8,307 ft	198.92	ASPHALT	0 ft	226 ft
	45 m	2,532 m	197.38		0 m	69 m
07R	197 ft	8,722 ft	65.48	ASPHALT	0 ft	0 ft
	60 m	2,658 m	63.94		0 m	0 m
25L	197 ft	8,722 ft	245.50	ASPHALT	0 ft	0 ft
	60 m	2,658 m	243.96		0 m	0 m
07L	197 ft	10,984 ft	65.48	ASPHALT	1,401 ft	0 ft
	60 m	3,348 m	63.94		427 m	0 m
25R	197 ft	10,984 ft	245.50	ASPHALT	0 ft	0 ft
	60 m	3,348 m	243.96		0 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
02	DME	BLT	108.75 MHz	25 nm	-	-	12 ft
				46 km	-		12 m
07L	DME	QAA	110.30 MHz	18 nm	-	-	13 ft
				33 km	-		13 m
07R	DME	BLE	110.75 MHz	18 nm	-	-	30 ft
				33 km	-		30 m
25L	DME	BLW	111.50 MHz	18 nm	-	-	14 ft
				33 km	-		14 m
25R	DME	BCA	109.50 MHz	18 nm	-	-	30 ft
				33 km	-		30 m
02	LOC-ILS	BLT	108.75 MHz	18 nm	18.92	-	14 ft
				33 km	17.38		14 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
07L	LOC-ILS	QAA	110.30 MHz	18 nm	65.50	-	14 ft
				33 km	63.96		14 m
07R	LOC-ILS	BLE	110.75 MHz	18 nm	65.50	-	14 ft
				33 km	63.96		14 m
25L	LOC-ILS	BLW	111.50 MHz	18 nm	245.50	-	14 ft
				33 km	243.96		14 m
25R	LOC-ILS	BCA	109.50 MHz	18 nm	245.50	-	14 ft
				33 km	243.96		14 m
02	GS	BLT	108.75 MHz	10 nm	18.92	3.00	14 ft
				19 km	17.38		14 m
07L	GS	QAA	110.30 MHz	10 nm	65.50	3.00	14 ft
				19 km	63.96		14 m
07R	GS	BLE	110.75 MHz	10 nm	65.50	3.00	14 ft
				19 km	63.96		14 m
25L	GS	BLW	111.50 MHz	10 nm	245.50	3.00	14 ft
				19 km	243.96		14 m
25R	GS	BCA	109.50 MHz	10 nm	245.50	3.00	14 ft
				19 km	243.96		14 m