

# ENGM

Oslo Gardermoen

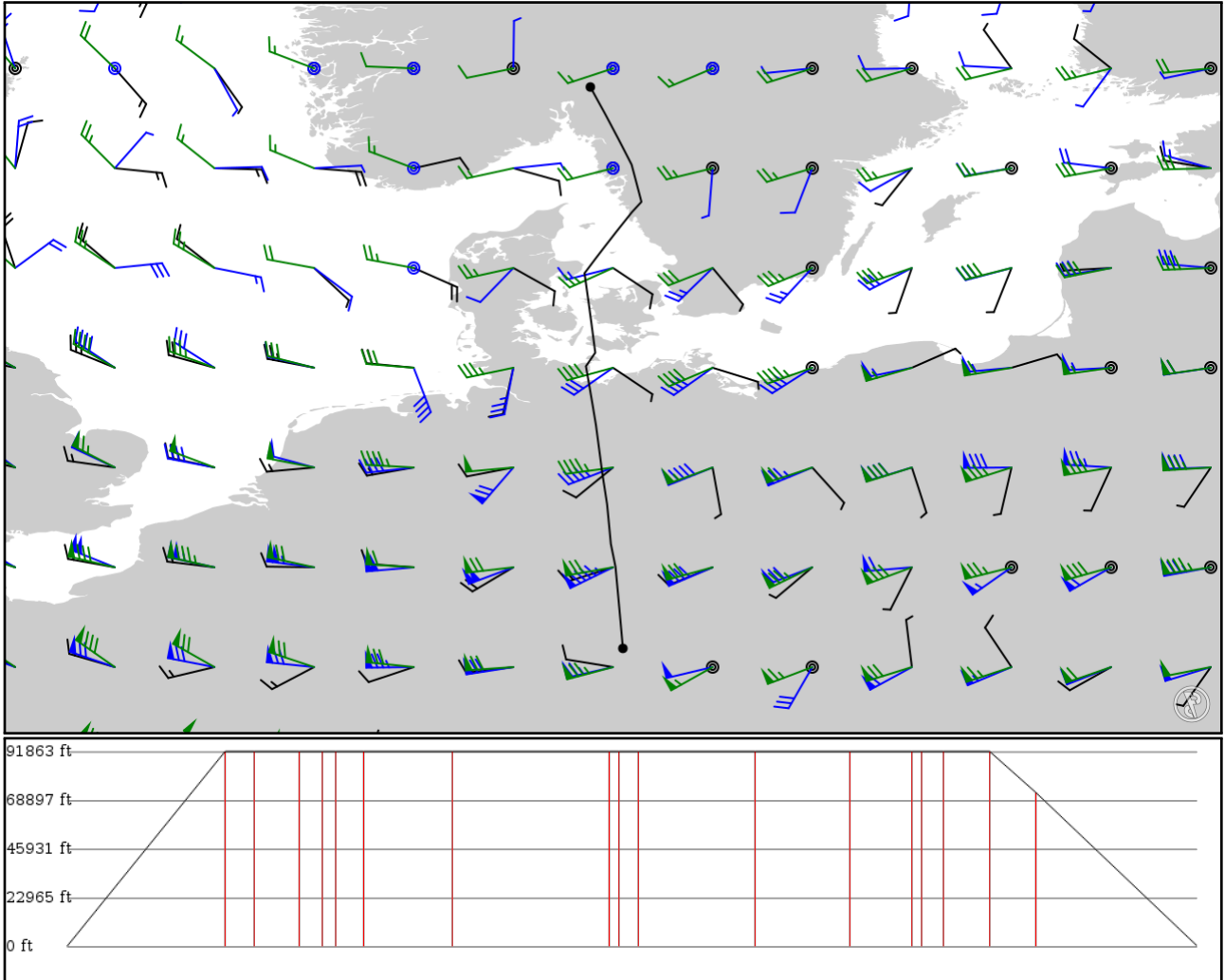
# EDDM

Muenchen International Airport Franz-Josef Strauss

2024/05/04 0850Z

ENGM LATKU **L996** LALIL **M852** GODOG **T148** LOMPU **T155** MIC **UZ730** GALMA **UM736** TABAT **T192** KULOK EDDM

726.19 nm / 1344.91 km



## Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 28000ft
- 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		
LATKU	-		58.55720	28,000 ft	101	-
FIX	-		11.97030	8,534 m		
KELIN	L996		58.24360	28,000 ft	19	-
FIX	AWY-HI		12.05420	8,534 m		
LALIL	L996		57.77350	28,000 ft	28	-
FIX	AWY-HI		12.17720	8,534 m		
ELBUX	M852		57.55520	28,000 ft	14	-
FIX	AWY-HI		11.97690	8,534 m		
GIXUN	M852		57.42120	28,000 ft	8	-
FIX	AWY-HI		11.86910	8,534 m		
VADIN	M852		57.13780	28,000 ft	18	-
FIX	AWY-HI		11.64390	8,534 m		
GODOG	M852		56.26750	28,000 ft	56	-
FIX	AWY-HI		10.97560	8,534 m		
LOMPU	T148		54.59220	28,000 ft	100	-
FIX	AWY-HI		11.20280	8,534 m		
NITLA	T155		54.50220	28,000 ft	5	-
FIX	AWY-HI		11.14060	8,534 m		
MIC	T155	54.30550	28,000 ft	12	MICHAELSDORF	
VOR	AWY-HI	11.00520	8,534 m			
NEBUN	UZ730	53.06780	28,000 ft	74	-	
FIX	AWY-HI	11.21690	8,534 m			
EMBOX	UZ730	52.05740	28,000 ft	60	-	
FIX	AWY-HI	11.34970	8,534 m			
GALMA	UZ730	51.39810	28,000 ft	39	-	
FIX	AWY-HI	11.45110	8,534 m			
SUVUT	UM736	51.29280	28,000 ft	6	-	
FIX	AWY-HI	11.46140	8,534 m			
RELKO	UM736	51.05980	28,000 ft	14	-	
FIX	AWY-HI	11.48380	8,534 m			
TABAT	UM736	50.55850	28,000 ft	30	-	
FIX	AWY-HI	11.53120	8,534 m			
KULOK	T192	50.07280	22,100 ft	29	-	
FIX	AWY-HI	11.63050	6,736 m			
EDDM	-	48.35380	0 ft	103	Muenchen International Airport Franz-Josef Strauss	
APT	-	11.78610	0 m			

## ENGM

Region: NORWAY  
Timezone: EUROPE/OSLO  
Runways: 2

Elevation: 681 ft / 208 m  
Location: 60.194500 11.098900  
Magnetic Var: 4.478 E

## METAR

ENGM 040820Z VRB02KT CAVOK 15/02 Q1015 NOSIG

## TAF

TAF ENGM 040500Z 0406/0506 01005KT CAVOK BECMG 0412/0414 13010KT BECMG 0420/0422 01005KT BECMG 0500/0502 FEW030CB

## 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	11.52		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

## EDDM

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

Elevation: 1,484 ft / 452 m  
Location: 48.353800 11.786100  
Magnetic Var: 3.939 E

## METAR

EDDM 040820Z AUTO 06004KT 030V110 9999 SCT026 15/08 Q1017 NOSIG

## TAF

TAF EDDM 040500Z 0406/0512 11004KT 9999 SCT040 BECMG 0505/0507 25007KT

## 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	79.45		0 m	0 m
26R	197 ft	13,135 ft	263.43	CONCRETE	0 ft	0 ft
	60 m	4,004 m	259.49		0 m	0 m
08R	197 ft	13,135 ft	83.37	CONCRETE	0 ft	0 ft
	60 m	4,004 m	79.43		0 m	0 m
26L	197 ft	13,135 ft	263.41	CONCRETE	0 ft	0 ft
	60 m	4,004 m	259.47		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	79.47		1,484 m
08R	LOC-ILS	IMSE	109.30 MHz	18 nm	83.39	-	1,484 ft
				33 km	79.45		1,484 m
26L	LOC-ILS	IMSW	108.30 MHz	18 nm	263.39	-	1,484 ft
				33 km	259.45		1,484 m
26R	LOC-ILS	IMNW	108.70 MHz	18 nm	263.41	-	1,484 ft
				33 km	259.47		1,484 m
08L	GS	IMNE	109.50 MHz	10 nm	83.41	3.00	1,484 ft
				19 km	79.47		1,484 m
08R	GS	IMSE	109.30 MHz	10 nm	83.39	3.00	1,484 ft
				19 km	79.45		1,484 m
26L	GS	IMSW	108.30 MHz	10 nm	263.39	3.00	1,484 ft
				19 km	259.45		1,484 m
26R	GS	IMNW	108.70 MHz	10 nm	263.41	3.00	1,484 ft
				19 km	259.47		1,484 m