

EDDW

Bremen

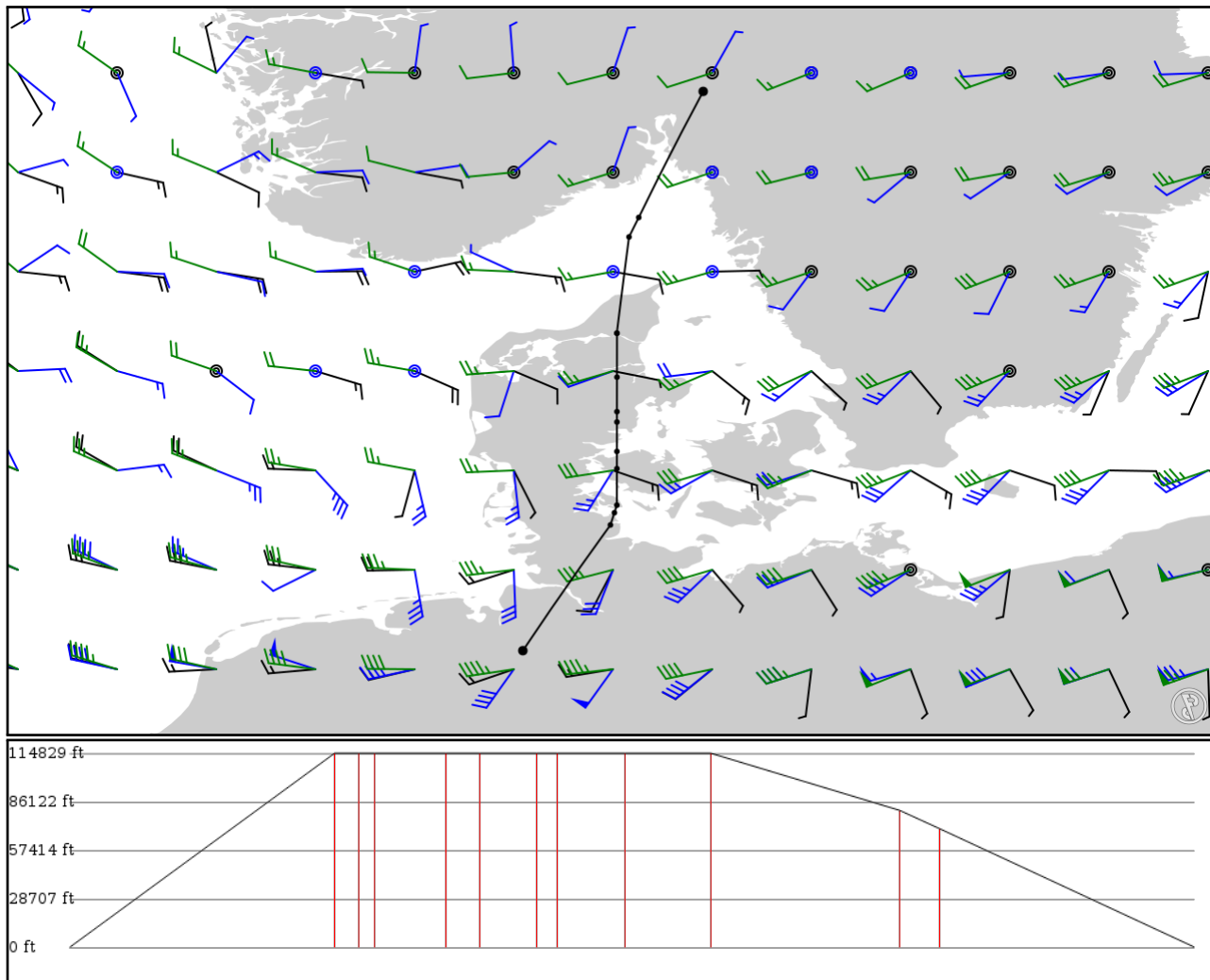
ENGM

Oslo Gardermoen

2024/05/20 0214Z

EDDW TUGDU P615 AAL AAL P615 ARTOR Z128 ESOSI ENGM

441.45 nm / 817.57 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
EDDW	-	53.04570	0 ft	-	Bremen
APT	-	8.78900	0 m		
TUGDU	-	54.65280	35,000 ft	104	-
FIX	-	9.91083	10,668 m		
ALASA	P615	54.80860	35,000 ft	9	-
FIX	AWY-HI	9.96167	10,668 m		
ALS	P615	54.90540	35,000 ft	5	ALSIE
VOR	AWY-HI	9.99338	10,668 m		
ASBIL	P615	55.37190	35,000 ft	28	-
FIX	AWY-HI	9.99389	10,668 m		
RIDSI	P615	55.59170	35,000 ft	13	-
FIX	AWY-HI	9.99417	10,668 m		
ABINO	P615	55.96830	35,000 ft	22	-
FIX	AWY-HI	9.99444	10,668 m		
LUTUS	P615	56.10080	35,000 ft	7	-
FIX	AWY-HI	9.99444	10,668 m		
RADIS	P615	56.54170	35,000 ft	26	-
FIX	AWY-HI	9.99500	10,668 m		
AAL	P615	57.10370	35,000 ft	33	AALBORG
VOR	AWY-HI	9.99558	10,668 m		
AAL	-	57.10390	35,000 ft	0	AALBORG VOR-DME
DME	-	9.99281	10,668 m		
ARTOR	P615	58.33440	24,700 ft	74	-
FIX	AWY-HI	10.14900	7,529 m		
ESOSI	Z128	58.58330	21,400 ft	15	-
FIX	AWY-HI	10.27360	6,523 m		
ENGM	-	60.19450	0 ft	99	Oslo Gardermoen
APT	-	11.09890	0 m		

EDDW

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

Elevation: 14 ft / 4 m
Location: 53.045700 8.789000
Magnetic Var: 3.305 E

METAR

EDDW 200150Z AUTO VRB02KT 4300 BR NSC 11/11 Q1010

TAF

TAF EDDW 192300Z 2000/2024 01004KT 9999 SCT025 TEMPO 2000/2006 1200 BCFG PROB40 TEMPO 2000/2005 0300 FG BKN003 BECM

Frequencies

GND - 121.75 MHz -	TWR - 125.10 MHz - INFO
TWR - 118.50 MHz -	TWR - 134.82 MHz -
APP - 124.80 MHz - RADAR	APP - 136.27 MHz - RADAR

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
05	75 ft	2,299 ft	51.50	ASPHALT	0 ft	0 ft
	23 m	701 m	48.19		0 m	0 m
23	75 ft	2,299 ft	231.51	ASPHALT	0 ft	0 ft
	23 m	701 m	228.20		0 m	0 m
09	148 ft	8,616 ft	87.78	ASPHALT	945 ft	0 ft
	45 m	2,626 m	84.48		288 m	0 m
27	148 ft	8,616 ft	267.82	ASPHALT	984 ft	0 ft
	45 m	2,626 m	264.51		300 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
09	LOC-ILS	IBRE	110.30 MHz	18 nm	87.80	-	14 ft
				33 km	84.49		14 m
27	LOC-ILS	IBRW	110.90 MHz	18 nm	267.80	-	14 ft
				33 km	264.49		14 m
09	GS	IBRE	110.30 MHz	10 nm	87.80	3.00	14 ft
				19 km	84.49		14 m
27	GS	IBRW	110.90 MHz	10 nm	267.80	3.00	14 ft
				19 km	264.49		14 m

ENGM

Region: NORWAY
Timezone: EUROPE/OSLO
Runways: 2

Elevation: 681 ft / 208 m
Location: 60.194500 11.098900
Magnetic Var: 4.485 E

METAR

ENGM 200150Z 02011KT 9999 BKN043 12/M02 Q1018

TAF

TAF ENGM 191700Z 1918/2018 04007KT CAVOK BECMG 2012/2014 17010KT

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	11.52		0 m	148 m
19L	148 ft	9,664 ft	196.02	ASPHALT	0 ft	489 ft
	45 m	2,946 m	191.53		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	191.52		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	11.51		681 m
01R	LOC-ILS	ONE	111.95 MHz	18 nm	16.04	-	681 ft
				33 km	11.55		681 m
19L	LOC-ILS	GME	110.55 MHz	18 nm	196.04	-	681 ft
				33 km	191.55		681 m
19R	LOC-ILS	GSW	111.30 MHz	18 nm	196.00	-	681 ft
				33 km	191.51		681 m
01L	GS	OBW	110.30 MHz	10 nm	16.00	3.00	681 ft
				19 km	11.51		681 m
01R	GS	ONE	111.95 MHz	10 nm	16.04	3.00	681 ft
				19 km	11.55		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	191.55		681 m
19R	GS	GSW	111.30 MHz	10 nm	196.00	3.00	681 ft
				19 km	191.51		681 m