ENGM
Oslo Gardermoen

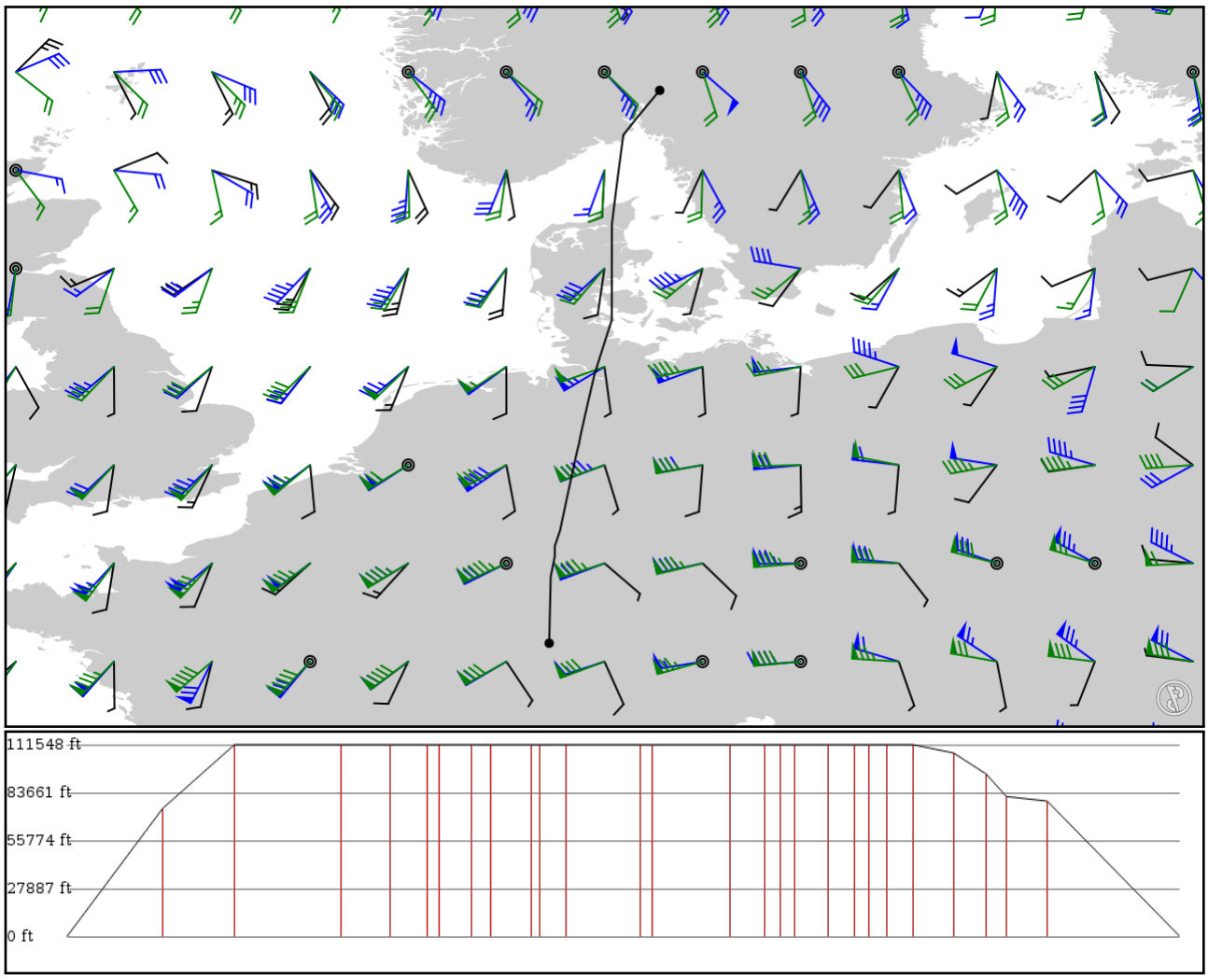
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LSZH
Zurich

2024/03/29 0624Z

ENGM TOR **UP615** ALS **UM852** EKERN **UP615** LBE **UL126** WRB **UN850** KRH LSZH

773.98 nm / 1433.41 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 APT	–	60.19451 11.09900	0 ft 0 m	–	Oslo Gardermoen
TOR VOR	–	59.16911 10.25927	22,700 ft 6,919 m	66	TORP VOR-DME
ARTOR FIX	UP615 AWY-HI	58.33444 10.14889	34,000 ft 10,363 m	50	–
AAL VOR	UP615 AWY-HI	57.10372 9.99558	34,000 ft 10,363 m	74	AALBORG VOR-DME
RADIS FIX	UP615 AWY-HI	56.54167 9.99500	34,000 ft 10,363 m	33	–
LUTUS FIX	UP615 AWY-HI	56.10083 9.99444	34,000 ft 10,363 m	26	–
ABINO FIX	UP615 AWY-HI	55.96833 9.99444	34,000 ft 10,363 m	7	–
RIDSI FIX	UP615 AWY-HI	55.59167 9.99417	34,000 ft 10,363 m	22	–
ASBIL FIX	UP615 AWY-HI	55.37194 9.99389	34,000 ft 10,363 m	13	–
ALS VOR	UP615 AWY-HI	54.90541 9.99338	34,000 ft 10,363 m	28	ALSIE VOR
ALASA FIX	UM852 AWY-HI	54.80861 9.96167	34,000 ft 10,363 m	5	–
EKERN FIX	UM852 AWY-HI	54.50583 9.86389	34,000 ft 10,363 m	18	–
LBE VOR	UP615 AWY-HI	53.65420 9.59506	34,000 ft 10,363 m	52	ELBE VOR-DME
ESTAD FIX	UL126 AWY-HI	53.52528 9.56472	34,000 ft 10,363 m	7	–
TIMEN FIX	UL126 AWY-HI	52.63222 9.35889	34,000 ft 10,363 m	54	–
ROBEG FIX	UL126 AWY-HI	52.23362 9.26962	34,000 ft 10,363 m	24	–
PIROT FIX	UL126 AWY-HI	52.05333 9.23694	34,000 ft 10,363 m	10	–
LARBU FIX	UL126 AWY-HI	51.88556 9.19305	34,000 ft 10,363 m	10	–
WRB VOR	UL126 AWY-HI	51.50570 9.11091	34,000 ft 10,363 m	23	WARBURG VOR-DME
RANAX FIX	UN850 AWY-HI	51.20722 9.04611	34,000 ft 10,363 m	18	–
EDEGA FIX	UN850 AWY-HI	51.03472 9.00778	34,000 ft 10,363 m	10	–
AMETU FIX	UN850 AWY-HI	50.83306 8.96444	34,000 ft 10,363 m	12	–
SOGMI FIX	UN850 AWY-HI	50.52750 8.89917	34,000 ft 10,363 m	18	–
BOMBI FIX	UN850 AWY-HI	50.05667 8.80028	32,500 ft 9,906 m	28	–
GIGET FIX	UN850 AWY-HI	49.70111 8.67917	28,800 ft 8,778 m	21	–
ABUKA FIX	UN850 AWY-HI	49.46528 8.67917	24,800 ft 7,559 m	14	–
KRH	UN850	48.99294	24,000 ft	28	KARLSRUHE VOR-DME

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
VOR	AWY-HI	8.58424	7,315 m		
LSZH	-	47.46349	0 ft	91	Zurich
APT	-	8.54996	0 m		

ENGM

Region: NORWAY
Timezone: EUROPE/OSLO
Runways: 2

Elevation: 681 ft / 208 m
Location: 60.194500 11.098900
Magnetic Var: 4.461 E

METAR

ENGM 290550Z 12003KT 070V160 2600 -RA BR OVC003 03/03 Q0986 TEMPO 1200 -DZ BR

TAF

TAF ENGM 290500Z 2906/3006 17008KT 9999 SCT003 BKN008 PROB40 2906/2909 0500 -DZ FG VV001 TEMPO 2909/2918 1200 -RAD

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 45 m	9,664 ft 2,946 m	16.01 11.55	ASPHALT	0 ft 0 m	486 ft 148 m
19L	148 ft 45 m	9,664 ft 2,946 m	196.02 191.56	ASPHALT	0 ft 0 m	489 ft 149 m
01L	148 ft 45 m	11,797 ft 3,596 m	15.99 11.53	ASPHALT	0 ft 0 m	423 ft 129 m
19R	148 ft 45 m	11,797 ft 3,596 m	196.01 191.55	ASPHALT	0 ft 0 m	486 ft 148 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
01L	DME	OBW	110.30 MHz	18 nm 33 km	- -	-	709 ft 709 m
01R	DME	ONE	111.95 MHz	18 nm 33 km	- -	-	723 ft 723 m
19L	DME	GME	110.55 MHz	18 nm 33 km	- -	-	729 ft 729 m
19R	DME	GSW	111.30 MHz	18 nm 33 km	- -	-	727 ft 727 m
01L	LOC-ILS	OBW	110.30 MHz	18 nm 33 km	16.00 11.54	-	681 ft 681 m
01R	LOC-ILS	ONE	111.95 MHz	18 nm 33 km	16.04 11.58	-	681 ft 681 m
19L	LOC-ILS	GME	110.55 MHz	18 nm 33 km	196.04 191.58	-	681 ft 681 m
19R	LOC-ILS	GSW	111.30 MHz	18 nm 33 km	196.00 191.54	-	681 ft 681 m
01L	GS	OBW	110.30 MHz	10 nm 19 km	16.00 11.54	3.00	681 ft 681 m
01R	GS	ONE	111.95 MHz	10 nm 19 km	16.04 11.58	3.00	681 ft 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	191.58		681 m
19R	GS	GSW	111.30 MHz	10 nm	196.00	3.00	681 ft
				19 km	191.54		681 m

LSZH

Region: SWITZERLAND
Timezone: EUROPE/ZURICH
Runways: 3

Elevation: 1,416 ft / 432 m
Location: 47.463500 8.549950
Magnetic Var: 3.111 E

METAR

LSZH 290550Z 23006KT 190V250 CAVOK 04/02 Q0999 NOSIG

TAF

TAF LSZH 290525Z 2906/3012 32003KT CAVOK TX18/2915Z TN03/2906Z TN07/3005Z PROB40 TEMPO 2910/2913 31008KT BECMG 29

Frequencies

REC - 125.72 MHz - ATIS
GND - 118.15 MHz - ZURICH GROUND
GND - 121.75 MHz - ZURICH APRON
GND - 121.85 MHz - ZURICH APRON
TWR - 118.10 MHz - ZURICH TOWER
TWR - 119.70 MHz - ZURICH TOWER
APP - 135.22 MHz - ZURICH APPROACH
APP - 120.75 MHz - ZURICH FINAL
GND - 121.90 MHz - ZURICH GROUND
GND - 119.75 MHz - ZURICH GROUND
GND - 121.70 MHz - ZURICH APRON
GND - 121.97 MHz - ZURICH APRON
TWR - 120.22 MHz - ZURICH TOWER
APP - 118.00 MHz - ZURICH ARRIVAL
APP - 125.32 MHz - ZURICH FINAL
DEP - 125.95 MHz - ZURICH DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
16	197 ft 60 m	12,181 ft 3,713 m	155.03 151.92	CONCRETE	0 ft 0 m	62 ft 19 m
34	197 ft 60 m	12,181 ft 3,713 m	335.05 331.94	CONCRETE	1,542 ft 470 m	49 ft 15 m
14	197 ft 60 m	10,816 ft 3,297 m	137.29 134.18	CONCRETE	492 ft 150 m	75 ft 23 m
32	197 ft 60 m	10,816 ft 3,297 m	317.31 314.20	CONCRETE	0 ft 0 m	82 ft 25 m
10	197 ft 60 m	8,196 ft 2,498 m	95.99 92.88	CONCRETE	0 ft 0 m	62 ft 19 m
28	197 ft 60 m	8,196 ft 2,498 m	276.02 272.91	CONCRETE	0 ft 0 m	276 ft 84 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
14	DME	IKL	108.30 MHz	18 nm 33 km	- -	-	1,460 ft 1,460 m
16	DME	IZH	110.50 MHz	18 nm 33 km	- -	-	1,400 ft 1,400 m
28	DME	IZW	109.75 MHz	18 nm 33 km	- -	-	1,416 ft 1,416 m
34	DME	IZS	110.75 MHz	18 nm 33 km	- -	-	1,410 ft 1,410 m
14	LOC-ILS	IKL	111.75 MHz	18 nm 33 km	137.31 134.20	-	1,417 ft 1,417 m
16	LOC-ILS	IZH	110.50 MHz	18 nm 33 km	155.05 151.94	-	1,417 ft 1,417 m
28	LOC-ILS	IZW	109.75 MHz	18 nm 33 km	276.01 272.90	-	1,417 ft 1,417 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
34	LOC-ILS	IZS	110.75 MHz	18 nm	335.06	-	1,417 ft
				33 km	331.95		1,417 m
14	GS	IKL	111.75 MHz	10 nm	137.31	3.00	1,417 ft
				19 km	134.20		1,417 m
16	GS	IZH	110.50 MHz	10 nm	155.05	3.00	1,417 ft
				19 km	151.94		1,417 m
28	GS	IZW	109.75 MHz	10 nm	276.01	3.30	1,417 ft
				19 km	272.90		1,417 m
34	GS	IZS	110.75 MHz	10 nm	335.06	3.30	1,417 ft
				19 km	331.95		1,417 m