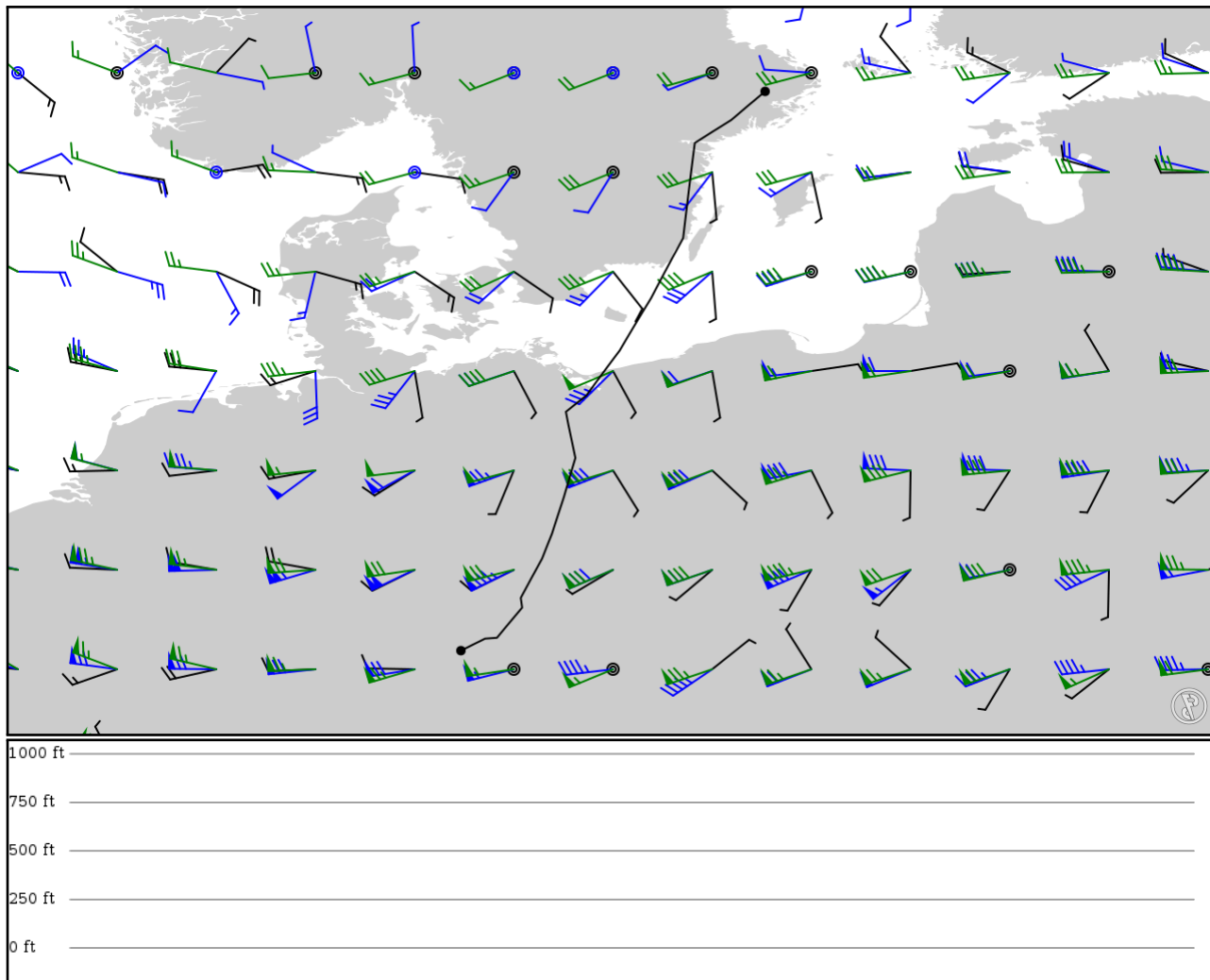


2024/05/11 0414Z

ESSA NOSLI TONSA PELUP VIBAR KAL ETRUS LUSID TILAV XELOL PESEL RAKIT RENKI GERGA TUVAK GORIG  
BESKO POGAB SISGO BEBKU MAREM DIKVA VESUB ARBER ABISI STAUB BIXEL DINOG LANDU EDDM

739.03 nm / 1368.68 km



## Notes

Requested: ESSA NOSLI TONSA PELUP VIBAR KAL ETRUS LUSID TILAV XELOL PESEL RAKIT RENKI GERGA TUVAK GORIG TUVAK GORI

## Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
ESSA	-	59.65014	0 ft	-	Stockholm Arlanda
APT	-	17.94363	0 m		
NOSLI	-	59.07278	0 ft	40	-
FIX	-	17.25811	0 m		
TONSA	-	58.60914	0 ft	36	-
FIX	-	16.52025	0 m		
PELUP	-	58.27883	0 ft	19	-
FIX	-	16.47792	0 m		
VIBAR	-	57.57814	0 ft	42	-
FIX	-	16.39064	0 m		
KAL	-	56.68539	0 ft	53	KALMAR VOR-DME
VOR	-	16.28419	0 m		
ETRUS	-	55.47344	0 ft	75	-
FIX	-	15.63483	0 m		
LUSID	-	54.91667	0 ft	35	-
FIX	-	15.29611	0 m		
TILAV	-	54.41639	0 ft	31	-
FIX	-	15.00000	0 m		
XEOL	-	54.27750	0 ft	9	-
FIX	-	14.89500	0 m		
PESEL	-	53.50778	0 ft	50	-
FIX	-	14.32583	0 m		
RAKIT	-	53.17861	0 ft	24	-
FIX	-	13.91111	0 m		
RENKI	-	52.91472	0 ft	15	-
FIX	-	13.96167	0 m		
GERGA	-	52.60250	0 ft	18	-
FIX	-	14.02806	0 m		
TUVAK	-	52.39972	0 ft	12	-
FIX	-	14.07083	0 m		
GORIG	-	52.31667	0 ft	5	-
FIX	-	14.08806	0 m		
BESKO	-	52.24556	0 ft	4	-
FIX	-	14.10306	0 m		
POGAB	-	51.84528	0 ft	24	-
FIX	-	13.98389	0 m		
SISGO	-	51.73528	0 ft	6	-
FIX	-	13.95167	0 m		
BEBKU	-	51.45694	0 ft	16	-
FIX	-	13.87056	0 m		
MAREM	-	50.71547	0 ft	45	-
FIX	-	13.62883	0 m		
DIKVA	-	50.21013	0 ft	31	-
FIX	-	13.42786	0 m		
VESUB	-	49.41926	0 ft	50	-
FIX	-	12.99742	0 m		
ARBER	-	49.22278	0 ft	11	-
FIX	-	13.02528	0 m		
ABISI	-	48.92056	0 ft	20	-
FIX	-	12.77056	0 m		
STAUB	-	48.78583	0 ft	9	-
FIX	-	12.65806	0 m		
BIXEL	-	48.69750	0 ft	6	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	-	12.58472	0 m		
DINOG	-	48.61361	0 ft	5	-
FIX	-	12.51556	0 m		
LANDU	-	48.59636	0 ft	9	-
FIX	-	12.27393	0 m		
EDDM	-	48.35379	0 ft	24	Muenchen Franz-Josef Strauss
APT	-	11.78612	0 m		

## ESSA

Region: SWEDEN  
Timezone: EUROPE/STOCKHOLM  
Runways: 3

Elevation: 138 ft / 42 m  
Location: 59.651900 17.918600  
Magnetic Var: 7.122 E

## METAR

ESSA 110350Z 00000KT CAVOK 02/01 Q1023 NOSIG

## TAF

TAF ESSA 110230Z 1103/1203 VRB03KT CAVOK

## Frequencies

REC - 119.00 MHz - ATIS	REC - 121.62 MHz - ATIS
APP - 123.75 MHz - STOCKHOLM CONTROL APPROACH	APP - 120.15 MHz - STOCKHOLM CONTROL APPROACH
APP - 126.65 MHz - STOCKHOLM CONTROL APPROACH	DEP - 123.75 MHz - STOCKHOLM CONTROL DEPARTURE
DEP - 120.15 MHz - STOCKHOLM CONTROL DEPARTURE	DEP - 126.65 MHz - STOCKHOLM CONTROL DEPARTURE
TWR - 118.50 MHz - ARLANDA TOWER	TWR - 125.12 MHz - ARLANDA TOWER
TWR - 128.72 MHz - ARLANDA TOWER	TWR - 123.10 MHz - ARLANDA TOWER
GND - 121.70 MHz - ARLANDA GROUND	GND - 121.97 MHz - ARLANDA GROUND
GND - 121.92 MHz - ARLANDA GROUND	CLD - 121.82 MHz - CLEARANCE DELIVERY

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
01L	148 ft	10,817 ft	10.38	ASPHALT	0 ft	154 ft
	45 m	3,297 m	3.25		0 m	47 m
19R	148 ft	10,817 ft	190.38	ASPHALT	0 ft	164 ft
	45 m	3,297 m	183.26		0 m	50 m
01R	148 ft	8,151 ft	10.38	ASPHALT	0 ft	223 ft
	45 m	2,484 m	3.25		0 m	68 m
19L	148 ft	8,151 ft	190.38	ASPHALT	0 ft	0 ft
	45 m	2,484 m	183.26		0 m	0 m
08	148 ft	8,180 ft	75.84	ASPHALT	0 ft	161 ft
	45 m	2,493 m	68.72		0 m	49 m
26	148 ft	8,180 ft	255.88	ASPHALT	0 ft	161 ft
	45 m	2,493 m	248.76		0 m	49 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
01L	LOC-ILS	SSA	109.90 MHz	18 nm	10.38	-	138 ft
				33 km	3.26		138 m
01R	LOC-ILS	TSA	109.35 MHz	18 nm	10.38	-	138 ft
				33 km	3.26		138 m
19L	LOC-ILS	USA	111.35 MHz	18 nm	190.38	-	138 ft
				33 km	183.26		138 m
19R	LOC-ILS	NSA	110.70 MHz	18 nm	190.38	-	138 ft
				33 km	183.26		138 m
26	LOC-ILS	ESA	110.10 MHz	18 nm	255.86	-	138 ft
				33 km	248.74		138 m
08	LOC-LOC	WSA	109.55 MHz	18 nm	75.86	-	138 ft
				33 km	68.74		138 m
01L	GS	SSA	109.90 MHz	10 nm	10.38	3.00	138 ft
				19 km	3.26		138 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
01R	GS	TSA	109.35 MHz	10 nm	10.38	3.00	138 ft
				19 km	3.26		138 m
19L	GS	USA	111.35 MHz	10 nm	190.38	3.00	138 ft
				19 km	183.26		138 m
19R	GS	NSA	110.70 MHz	10 nm	190.38	3.00	138 ft
				19 km	183.26		138 m
26	GS	ESA	110.10 MHz	10 nm	255.86	3.00	138 ft
				19 km	248.74		138 m

## EDDM

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

Elevation: 1,484 ft / 452 m  
Location: 48.353800 11.786100  
Magnetic Var: 3.941 E

## METAR

EDDM 110350Z AUTO VRB01KT 2500 0450 R08L/P2000N R08R/P2000N BCFG NCD 04/04 Q1021 TEMPO 9999

## TAF

TAF AMD EDDM 110250Z 1102/1206 VRB02KT CAVOK TEMPO 1102/1105 3000 BCFG BECMG 1107/1109 08007KT BECMG 1117/1119 VR

## 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