KMSP

Minneapolis-St Paul International Airport

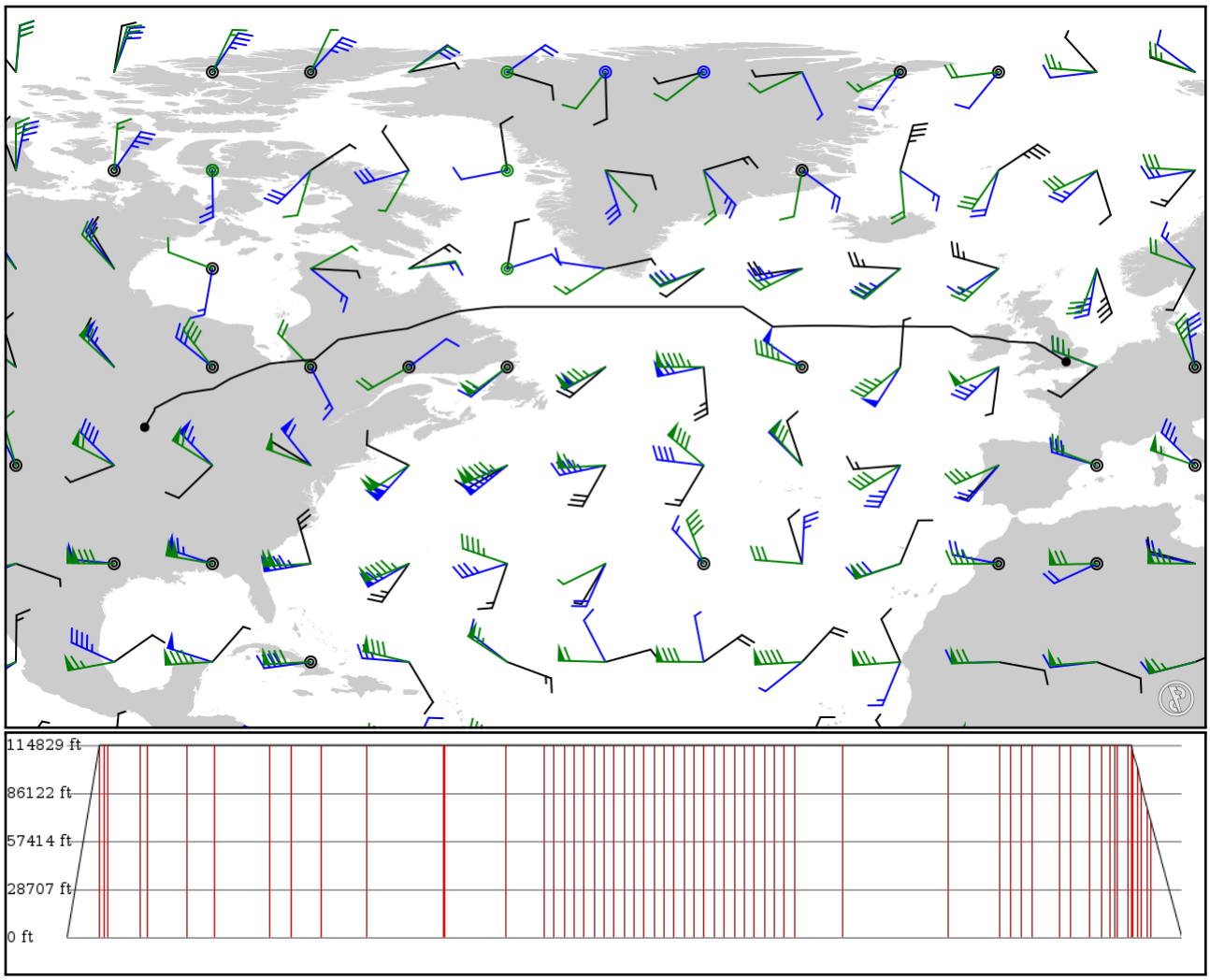
EGLL

London Heathrow

2024/03/19 1149Z

KMSP BARUM **V13** DLH **J533** YQT **V242** YSP **V6** YMO MO **AR24** K8 **BR18** YFM **RR23** KR YKL **J548** YDP BOKTO 5700N05700W 5700N05600W 5700N05500W 5700N05400W 5700N05300W 5700N05200W 5700N05100W 5700N05000W 5700N04900W 5700N04800W 5700N04700W 5700N04600W 5700N04500W 5700N04400W 5700N04300W 5700N04200W 5700N04100W 5700N04000W 5700N03900W 5700N03800W 5700N03700W 5700N03600W 5700N03500W 5700N03400W 5700N03300W 55/30 **S** NETKI 5500N01300W 5500N01200W 5400N01000W 5400N0900W OLAPO **L149** DUB **L975** LIFFY **Q36** EPOXI **UL15** KEPAD **UL151** TELBA EGLL

3642.25 nm / 6745.44 km



Notes

Using NAT tracks from 27/7/2022

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	Via	Lat	Alt	Dist	Name
Type		Lon		(nm)	
KMSP	-	44.88190	0 ft	-	Minneapolis-St Paul International Airport
APT	-	-93.22200	0 m		
BARUM	-	46.52850	35,000 ft	106	-
FIX	-	-92.25140	10,668 m		
DAYAR	V13	46.55410	35,000 ft	1	-
FIX	AWY-LO	-92.24680	10,668 m		
DLH	V13	46.80220	35,000 ft	15	DULUTH
VOR	AWY-LO	-92.20290	10,668 m		
VURLY	J533	46.92280	35,000 ft	11	-
FIX	AWY-HI	-91.98350	10,668 m		
MPCEG	J533	48.00680	35,000 ft	105	-
FIX	AWY-HI	-89.92820	10,668 m		
YQT	J533	48.25390	35,000 ft	24	THUNDER BAY
VOR	AWY-HI	-89.43720	10,668 m		
YSP	V242	48.74340	35,000 ft	127	MARATHON
VOR	AWY-LO	-86.32760	10,668 m		
YAN	V6	49.77810	35,000 ft	92	AMESON
VOR	AWY-LO	-84.59110	10,668 m		
YMO	V6	51.29140	35,000 ft	177	MOOSONEE
VOR	AWY-LO	-80.60720	10,668 m		
MO	-	51.28220	35,000 ft	0	MOOSONEE
NDB	-	-80.62790	10,668 m		
YKQ	AR24	51.48710	35,000 ft	71	WASKAGANISH (FORT RUPERT)
NDB	AWY-LO	-78.74490	10,668 m		
K8	AR24	51.68900	35,000 ft	98	NEMISCAU
NDB	AWY-LO	-76.13430	10,668 m		
YFM	BR18	53.71130	35,000 ft	150	LA GRANDE-4
NDB	AWY-LO	-73.70300	10,668 m		
KR	RR23	54.79930	35,000 ft	250	SQUAW (SHEFFERVILLE)
NDB	AWY-LO	-66.80360	10,668 m		
YKL	-	54.81450	35,000 ft	1	SCHEFFERVILLE
VOR	-	-66.75490	10,668 m		
YDP	J548	56.53380	35,000 ft	200	NAIN
NDB	AWY-HI	-61.69180	10,668 m		
BOKTO	-	56.96670	35,000 ft	124	-
FIX	-	-58.00000	10,668 m		
5700N05700W	-	57.00000	35,000 ft	32	-
LATLON	-	-57.00000	10,668 m		
5700N05600W	-	57.00000	35,000 ft	32	-
LATLON	-	-56.00000	10,668 m		
5700N05500W	-	57.00000	35,000 ft	32	-
LATLON	-	-55.00000	10,668 m		
5700N05400W	-	57.00000	35,000 ft	32	-
LATLON	-	-54.00000	10,668 m		
5700N05300W	-	57.00000	35,000 ft	32	-
LATLON	-	-53.00000	10,668 m		
5700N05200W	-	57.00000	35,000 ft	32	-
LATLON	-	-52.00000	10,668 m		
5700N05100W	-	57.00000	35,000 ft	32	-
LATLON	-	-51.00000	10,668 m		
5700N05000W	-	57.00000	35,000 ft	32	-
LATLON	-	-50.00000	10,668 m		
5700N04900W	-	57.00000	35,000 ft	32	-

Ident	Via	Lat	Alt	Dist	Name
Type		Lon		(nm)	
LATLON	-	-49.00000	10,668 m		
5700N04800W	-	57.00000	35,000 ft	32	-
LATLON	-	-48.00000	10,668 m		
5700N04700W	-	57.00000	35,000 ft	32	-
LATLON	-	-47.00000	10,668 m		
5700N04600W	-	57.00000	35,000 ft	32	-
LATLON	-	-46.00000	10,668 m		
5700N04500W	-	57.00000	35,000 ft	32	-
LATLON	-	-45.00000	10,668 m		
5700N04400W	-	57.00000	35,000 ft	32	-
LATLON	-	-44.00000	10,668 m		
5700N04300W	-	57.00000	35,000 ft	32	-
LATLON	-	-43.00000	10,668 m		
5700N04200W	-	57.00000	35,000 ft	32	-
LATLON	-	-42.00000	10,668 m		
5700N04100W	-	57.00000	35,000 ft	32	-
LATLON	-	-41.00000	10,668 m		
5700N04000W	-	57.00000	35,000 ft	32	-
LATLON	-	-40.00000	10,668 m		
5700N03900W	-	57.00000	35,000 ft	32	-
LATLON	-	-39.00000	10,668 m		
5700N03800W	-	57.00000	35,000 ft	32	-
LATLON	-	-38.00000	10,668 m		
5700N03700W	-	57.00000	35,000 ft	32	-
LATLON	-	-37.00000	10,668 m		
5700N03600W	-	57.00000	35,000 ft	32	-
LATLON	-	-36.00000	10,668 m		
5700N03500W	-	57.00000	35,000 ft	32	-
LATLON	-	-35.00000	10,668 m		
5700N03400W	-	57.00000	35,000 ft	32	-
LATLON	-	-34.00000	10,668 m		
5700N03300W	-	57.00000	35,000 ft	32	-
LATLON	-	-33.00000	10,668 m		
55/30	-	55.00000	35,000 ft	156	-
LATLON	-	-30.00000	10,668 m		
55/20	S	55.00000	35,000 ft	344	-
LATLON	NAT	-20.00000	10,668 m		
RESNO	S	55.00000	35,000 ft	172	-
FIX	NAT	-15.00000	10,668 m		
NETKI	S	55.00000	35,000 ft	34	-
FIX	NAT	-14.00000	10,668 m		
5500N01300W	-	55.00000	35,000 ft	34	-
LATLON	-	-13.00000	10,668 m		
5500N01200W	-	55.00000	35,000 ft	34	-
LATLON	-	-12.00000	10,668 m		
5400N01000W	-	54.00000	35,000 ft	92	-
LATLON	-	-10.00000	10,668 m		
5400N0900W	-	54.00000	35,000 ft	35	-
LATLON	-	-9.00000	10,668 m		
OLAPO	-	53.78030	35,000 ft	61	-
FIX	-	-7.29461	10,668 m		
DUB	L149	53.49940	35,000 ft	38	DUBLIN
VOR	AWY-LO	-6.30711	10,668 m		
LIFFY	L975	53.48010	35,000 ft	28	-
FIX	AWY-LO	-5.50000	10,668 m		
RULAV	Q36	53.43720	35,000 ft	12	-

Ident	Via	Lat	Alt	Dist	Name
Type		Lon		(nm)	
FIX	AWY-HI	-5.16694	10,668 m		
ABGEP	Q36	53.42750	35,000 ft	10	-
FIX	AWY-HI	-4.86111	10,668 m		
ALAVA	Q36	53.39530	35,000 ft	31	-
FIX	AWY-HI	-3.97139	10,668 m		
NOSLO	Q36	53.38170	35,000 ft	11	-
FIX	AWY-HI	-3.64500	10,668 m		
EPOXI	Q36	53.33310	33,600 ft	7	-
FIX	AWY-HI	-3.45500	10,241 m		
AMPIT	UL15	53.19420	30,900 ft	12	-
FIX	AWY-HI	-3.19250	9,418 m		
RISLA	UL15	53.03080	27,700 ft	14	-
FIX	AWY-HI	-2.88667	8,443 m		
KEPAD	UL15	52.80970	23,500 ft	19	-
FIX	AWY-HI	-2.47889	7,163 m		
TELBA	UL151	52.66440	21,200 ft	10	-
FIX	AWY-HI	-2.31861	6,462 m		
EGLL	-	51.47120	0 ft	99	London Heathrow
APT	-	-0.46088	0 m		

KMSP

Region: UNITED STATES
Timezone: AMERICA/CHICAGO
Runways: 4
Elevation: 841 ft / 256 m
Location: 44.881900 -93.222000
Magnetic Var: 0.266 W

METAR

KMSP 191053Z 30010KT 10SM SCT250 02/M09 A2965 RMK AO2 SLP049 T00221094

TAF

KMSP 190900Z 1909/2012 26012G20KT P6SM FEW250 FM191100 30015G24KT P6SM SCT150 FM191700 31019G29KT P6SM BKN050 FM1

Frequencies

DEP - 132.97 MHz - MINNEAPOLIS DEPARTURE
DEP - 125.75 MHz - MINNEAPOLIS DEPARTURE
DEP - 124.70 MHz - MINNEAPOLIS DEPARTURE
APP - 126.95 MHz - MINNEAPOLIS APPROACH
APP - 119.30 MHz - MINNEAPOLIS APPROACH
APP - 118.72 MHz - MINNEAPOLIS APPROACH
TWR - 126.70 MHz - MINNEAPOLIS TOWER
TWR - 123.95 MHz - MINNEAPOLIS TOWER
TWR - 123.67 MHz - MINNEAPOLIS TOWER
GND - 133.57 MHz - MINNEAPOLIS GROUND
GND - 127.92 MHz - MINNEAPOLIS GROUND
GND - 121.90 MHz - MINNEAPOLIS GROUND
GND - 121.80 MHz - MINNEAPOLIS GROUND
REC - 120.80 MHz - MINNEAPOLIS D-ATIS
REC - 135.35 MHz - MINNEAPOLIS D-ATIS
COM - 122.95 MHz - MINNEAPOLIS UNICOM
CLD - 133.20 MHz - MINNEAPOLIS CLEARANCE DELIVERY

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
17	150 ft 46 m	8,008 ft 2,441 m	169.56 169.82	CONCRETE	0 ft 0 m	397 ft 121 m
35	150 ft 46 m	8,008 ft 2,441 m	349.56 349.83	CONCRETE	0 ft 0 m	394 ft 120 m
12L	150 ft 46 m	8,190 ft 2,496 m	121.42 121.68	CONCRETE	0 ft 0 m	397 ft 121 m
30R	150 ft 46 m	8,190 ft 2,496 m	301.44 301.70	CONCRETE	203 ft 62 m	394 ft 120 m
12R	200 ft 61 m	9,985 ft 3,043 m	121.42 121.69	CONCRETE	0 ft 0 m	1,194 ft 364 m
30L	200 ft 61 m	9,985 ft 3,043 m	301.44 301.71	CONCRETE	0 ft 0 m	781 ft 238 m
04	150 ft 46 m	11,118 ft 3,389 m	44.90 45.17	CONCRETE	1,660 ft 506 m	0 ft 0 m
22	150 ft 46 m	11,118 ft 3,389 m	224.92 225.19	CONCRETE	0 ft 0 m	410 ft 125 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
12L	DME	IPJL	110.70 MHz	18 nm 33 km	- -	-	813 ft 813 m
12R	DME	IHKZ	110.30 MHz	18 nm 33 km	- -	-	841 ft 841 m
17	DME	ITJZ	110.95 MHz	18 nm 33 km	- -	-	822 ft 822 m
30L	DME	IMSP	110.30 MHz	18 nm 33 km	- -	-	841 ft 841 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
30R	DME	IINN	110.70 MHz	18 nm 33 km	– –	–	813 ft 813 m
35	DME	IBMA	110.95 MHz	18 nm 33 km	– –	–	822 ft 822 m
12L	LOC-ILS	IPJL	110.70 MHz	18 nm 33 km	121.43 121.70	–	841 ft 841 m
12R	LOC-ILS	IHKZ	110.30 MHz	18 nm 33 km	121.44 121.71	–	841 ft 841 m
30L	LOC-ILS	IMSP	110.30 MHz	18 nm 33 km	301.44 301.71	–	841 ft 841 m
30R	LOC-ILS	IINN	110.70 MHz	18 nm 33 km	301.43 301.70	–	841 ft 841 m
35	LOC-ILS	IBMA	110.95 MHz	18 nm 33 km	349.56 349.83	–	841 ft 841 m
04	LOC-LOC	IAPL	109.30 MHz	18 nm 33 km	44.92 45.19	–	841 ft 841 m
17	LOC-LOC	ITJZ	110.95 MHz	18 nm 33 km	169.56 169.83	–	841 ft 841 m
22	LOC-LOC	ISIJ	110.50 MHz	18 nm 33 km	224.92 225.19	–	841 ft 841 m
12L	GS	IPJL	110.70 MHz	10 nm 19 km	121.43 121.70	3.00	841 ft 841 m
12R	GS	IHKZ	110.30 MHz	10 nm 19 km	121.44 121.71	3.00	841 ft 841 m
30L	GS	IMSP	110.30 MHz	10 nm 19 km	301.44 301.71	3.00	841 ft 841 m
30R	GS	IINN	110.70 MHz	10 nm 19 km	301.43 301.70	3.00	841 ft 841 m
35	GS	IBMA	110.95 MHz	10 nm 19 km	349.56 349.83	3.00	841 ft 841 m

EGLL

Region: UNITED KINGDOM
Timezone: EUROPE/LONDON
Runways: 2

Elevation: 83 ft / 25 m
Location: 51.471200 -0.460881
Magnetic Var: 0.357 E

METAR

EGLL 191120Z AUTO 21012KT 170V250 9999 OVC013 12/09 Q1016

TAF

TAF EGLL 190459Z 1906/2012 21010KT 9999 SCT012 BKN018 TEMPO 1906/1912 7000 -RADZ BKN010 PROB40 TEMPO 1907/1912 BKN

Frequencies

REC - 128.07 MHz - HEATHROW INFORMATION
CLD - 121.97 MHz - HEATHROW DELIVERY
GND - 121.85 MHz - HEATHROW GROUND
TWR - 118.50 MHz - HEATHROW TOWER
TWR - 124.47 MHz - HEATHROW TOWER
APP - 120.40 MHz - HEATHROW DIRECTOR
APP - 125.62 MHz - HEATHROW RADAR
DEP - 120.52 MHz - HEATHROW DEPARTURE

REC - 121.92 MHz - HEATHROW INFORMATION
GND - 121.70 MHz - HEATHROW GROUND
GND - 121.90 MHz - HEATHROW GROUND
TWR - 118.70 MHz - HEATHROW TOWER
APP - 119.72 MHz - HEATHROW DIRECTOR
APP - 134.97 MHz - HEATHROW DIRECTOR
APP - 127.52 MHz - HEATHROW RADAR

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
09L	164 ft 50 m	12,770 ft 3,892 m	89.66 89.30	ASPHALT	1,007 ft 307 m	0 ft 0 m
27R	164 ft 50 m	12,770 ft 3,892 m	269.70 269.35	ASPHALT	0 ft 0 m	177 ft 54 m
09R	164 ft 50 m	11,975 ft 3,650 m	89.68 89.32	ASPHALT	1,004 ft 306 m	0 ft 0 m
27L	164 ft 50 m	11,975 ft 3,650 m	269.72 269.37	ASPHALT	0 ft 0 m	95 ft 29 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
09L	DME	IAA	110.30 MHz	18 nm 33 km	- -	-	89 ft 89 m
09R	DME	IBB	109.50 MHz	18 nm 33 km	- -	-	84 ft 84 m
27L	DME	ILL	109.50 MHz	18 nm 33 km	- -	-	84 ft 84 m
27R	DME	IRR	110.30 MHz	18 nm 33 km	- -	-	89 ft 89 m
09L	LOC-ILS	IAA	110.30 MHz	18 nm 33 km	89.68 89.32	-	83 ft 83 m
09R	LOC-ILS	IBB	109.50 MHz	18 nm 33 km	89.70 89.34	-	83 ft 83 m
27L	LOC-ILS	ILL	109.50 MHz	18 nm 33 km	269.70 269.34	-	83 ft 83 m
27R	LOC-ILS	IRR	110.30 MHz	18 nm 33 km	269.68 269.32	-	83 ft 83 m
09L	GS	IAA	110.30 MHz	10 nm 19 km	89.68 89.32	3.00	83 ft 83 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
09R	GS	IBB	109.50 MHz	10 nm	89.70	3.00	83 ft
				19 km	89.34		83 m
27L	GS	ILL	109.50 MHz	10 nm	269.70	3.00	83 ft
				19 km	269.34		83 m
27R	GS	IRR	110.30 MHz	10 nm	269.68	3.00	83 ft
				19 km	269.32		83 m