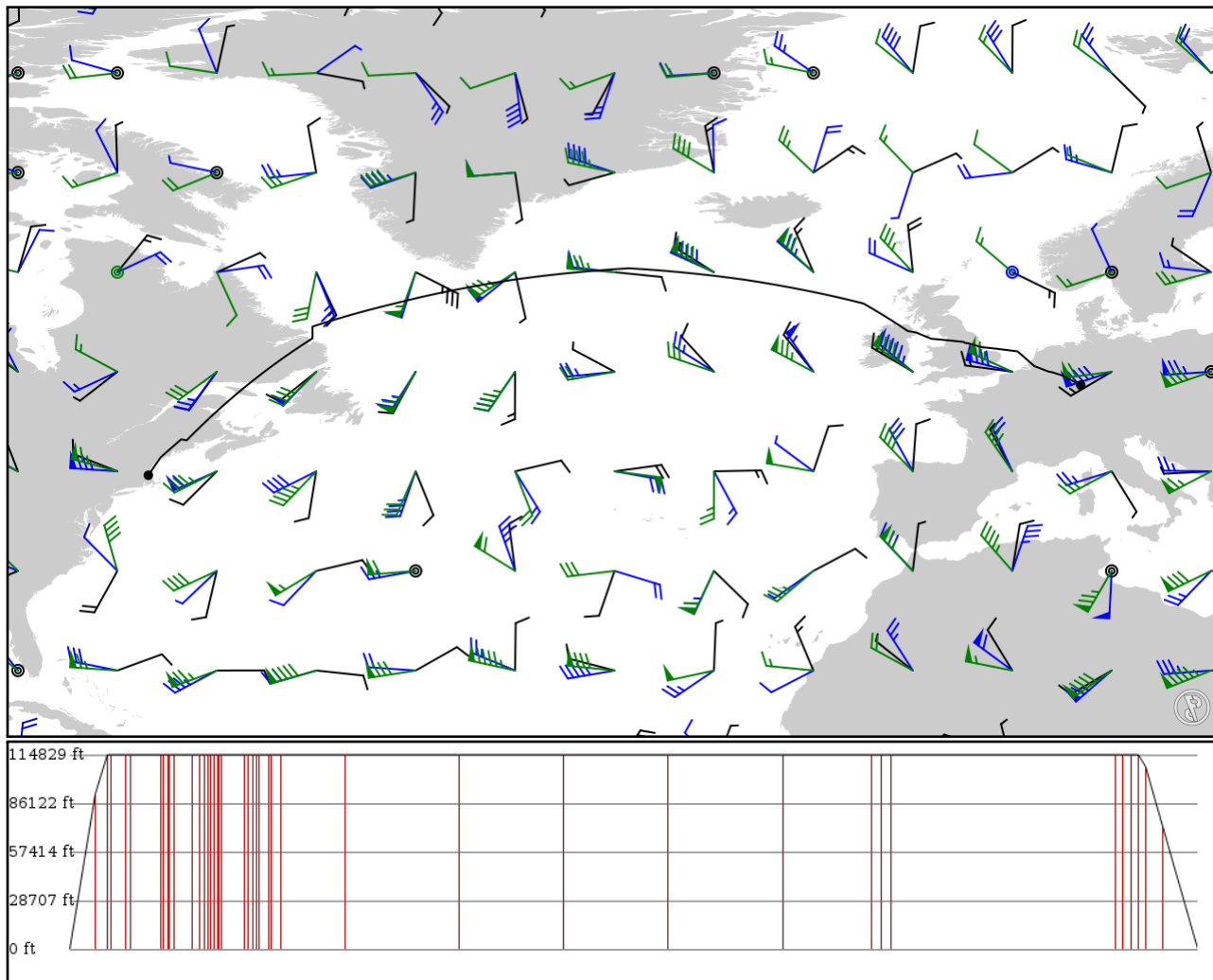


2024/06/13 1944Z

EDDF MYNDA **UZ29** TORNU **UZ291** BRED A **UZ292** RAVLO **Y70** BATLI **UY250** RIMTO **L46** REMSI **M147** ROBOP **M146**
IPSET **P6** BEL GOMUP **C** HOIST IRLOK JANJO **N556A** TOPPS LAUDS **V3** BGR **T295** BRNNS KBOS

3348.95 nm / 6202.25 km



Notes

Using NAT tracks from 12/2/2024

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
EDDF	-	50.03260	0 ft	-	Frankfurt
APT	-	8.54067	0 m		
MYNDA	-	50.86640	27,900 ft	78	-
FIX	-	6.96389	8,504 m		
TINIK	UZ29	51.14000	35,000 ft	36	-
FIX	AWY-HI	6.10056	10,668 m		
TORNU	UZ29	51.18340	35,000 ft	10	-
FIX	AWY-HI	5.83339	10,668 m		
BREDA	UZ291	51.56030	35,000 ft	43	-
FIX	AWY-HI	4.85333	10,668 m		
KUDAD	UZ292	51.66750	35,000 ft	12	-
FIX	AWY-HI	4.56761	10,668 m		
RAVLO	UZ292	52.91690	35,000 ft	91	-
FIX	AWY-HI	3.14820	10,668 m		
KUBAX	Y70	52.94280	35,000 ft	7	-
FIX	AWY-HI	2.95361	10,668 m		
BEKMO	Y70	52.98610	35,000 ft	12	-
FIX	AWY-HI	2.61944	10,668 m		
SONOL	Y70	53.00140	35,000 ft	4	-
FIX	AWY-HI	2.50000	10,668 m		
BODSO	Y70	53.05220	35,000 ft	14	-
FIX	AWY-HI	2.09472	10,668 m		
SUPEL	Y70	53.22780	35,000 ft	55	-
FIX	AWY-HI	0.59111	10,668 m		
OTBED	Y70	53.28810	35,000 ft	20	-
FIX	AWY-HI	0.03194	10,668 m		
VEGUS	Y70	53.40030	35,000 ft	15	-
FIX	AWY-HI	-0.35306	10,668 m		
SIVBU	Y70	53.46530	35,000 ft	8	-
FIX	AWY-HI	-0.57889	10,668 m		
GIPL0	Y70	53.52530	35,000 ft	8	-
FIX	AWY-HI	-0.78972	10,668 m		
GOLES	Y70	53.60810	35,000 ft	11	-
FIX	AWY-HI	-1.08333	10,668 m		
BATLI	Y70	53.64580	35,000 ft	10	-
FIX	AWY-HI	-1.36028	10,668 m		
RIMTO	UY250	53.71750	35,000 ft	5	-
FIX	AWY-HI	-1.43306	10,668 m		
HALIF	L46	53.73500	35,000 ft	5	-
FIX	AWY-HI	-1.58056	10,668 m		
GETNO	L46	53.93000	35,000 ft	68	-
FIX	AWY-HI	-3.49639	10,668 m		
REMSI	L46	53.96030	35,000 ft	11	-
FIX	AWY-HI	-3.82556	10,668 m		
UVPOK	M147	53.99440	35,000 ft	13	-
FIX	AWY-HI	-4.20972	10,668 m		
NOPKI	M147	54.08780	35,000 ft	9	-
FIX	AWY-HI	-4.43556	10,668 m		
MATUT	M147	54.17140	35,000 ft	8	-
FIX	AWY-HI	-4.63944	10,668 m		
ROBOP	M147	54.45250	35,000 ft	29	-
FIX	AWY-HI	-5.33472	10,668 m		
IPSET	M146	54.51830	35,000 ft	5	-

Ident Type	Via		Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI		-5.45250	10,668 m		
BEL	P6		54.66110	35,000 ft	28	BELFAST
VOR	AWY-LO		-6.22991	10,668 m		
GOMUP	-		57.00000	35,000 ft	189	-
FIX	-		-10.00000	10,668 m		
59/20	C		59.00000	35,000 ft	339	-
LATLON	NAT		-20.00000	10,668 m		
60/30	C		60.00000	35,000 ft	310	-
LATLON	NAT		-30.00000	10,668 m		
59/40	C		59.00000	35,000 ft	310	-
LATLON	NAT		-40.00000	10,668 m		
57/50	C		57.00000	35,000 ft	339	-
LATLON	NAT		-50.00000	10,668 m		
HOIST	C		55.03330	35,000 ft	262	-
FIX	NAT		-57.00000	10,668 m		
IRLOK	-		54.53330	35,000 ft	30	-
FIX	-		-57.00000	10,668 m		
JANJO	-		54.03330	35,000 ft	30	-
FIX	-		-57.00000	10,668 m		
TOPPS	N556A		45.34020	35,000 ft	666	-
FIX	AWY-HI		-67.73860	10,668 m		
LAUDS	-		45.41950	35,000 ft	20	-
FIX	-		-68.20750	10,668 m		
NIELD	V3		45.10260	35,000 ft	24	-
FIX	AWY-LO		-68.57530	10,668 m		
BGR	V3		44.84180	35,000 ft	20	BANGOR
VOR	AWY-LO		-68.87400	10,668 m		
ACYOG	T295	44.54690	32,800 ft	22	-	
FIX	AWY-LO	-69.21520	9,997 m			
BRNNS	T295	43.90240	22,100 ft	49	-	
FIX	AWY-LO	-69.94520	6,736 m			
KBOS	-	42.36300	0 ft	103	General Edward Lawrence Logan Intl	
APT	-	-71.00680	0 m			

EDDF

Region: GERMANY - CIVIL
Timezone: EUROPE/BERLIN
Runways: 4

Elevation: 362 ft / 110 m
Location: 50.032600 8.540670
Magnetic Var: 3.185 E

METAR

EDDF 131920Z AUTO 13005KT 100V160 CAVOK 16/06 Q1015 NOSIG

TAF

TAF EDDF 131700Z 1318/1424 19005KT CAVOK BECMG 1319/1321 VRB03KT BECMG 1406/1409 19010KT BECMG 1410/1413 BKN040 P

Frequencies

REC - 118.02 MHz - ATIS ARRIVAL
GND - 121.80 MHz - GROUND
GND - 121.70 MHz - APRON RAMP/TAXI
GND - 121.85 MHz - APRON RAMP/TAXI
TWR - 118.77 MHz - TOWER
TWR - 124.85 MHz - TOWER
TWR - 136.50 MHz - TOWER
APP - 127.27 MHz - FRANKFURT DIRECT
APP - 125.35 MHz - LANGEN RADAR
APP - 120.80 MHz - LANGEN RADAR
APP - 136.12 MHz - LANGEN RADAR

REC - 118.72 MHz - ATIS DEPARTURE
GND - 121.65 MHz - APRON RAMP/TAXI
GND - 121.95 MHz - APRON RAMP/TAXI
GND - 121.75 MHz - APRON RAMP/TAXI
TWR - 119.90 MHz - TOWER
TWR - 127.32 MHz - TOWER
CLD - 121.90 MHz - CLEARANCE DELIVERY
APP - 118.50 MHz - FRANKFURT DIRECT
APP - 126.55 MHz - LANGEN RADAR
APP - 120.15 MHz - LANGEN RADAR
APP - 119.02 MHz - LANGEN RADAR

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
07L	148 ft	9,194 ft	69.56	CONCRETE	0 ft	0 ft
	45 m	2,802 m	66.38		0 m	0 m
25R	148 ft	9,194 ft	249.59	CONCRETE	0 ft	0 ft
	45 m	2,802 m	246.41		0 m	0 m
07C	197 ft	13,134 ft	69.57	ASPHALT	0 ft	203 ft
	60 m	4,003 m	66.38		0 m	62 m
25C	197 ft	13,134 ft	249.61	ASPHALT	0 ft	935 ft
	60 m	4,003 m	246.42		0 m	285 m
07R	148 ft	13,134 ft	69.59	ASPHALT	0 ft	213 ft
	45 m	4,003 m	66.40		0 m	65 m
25L	148 ft	13,134 ft	249.63	ASPHALT	0 ft	1,775 ft
	45 m	4,003 m	246.44		0 m	541 m
18	148 ft	13,083 ft	179.64	ASPHALT	0 ft	0 ft
	45 m	3,988 m	176.45		0 m	0 m
36	148 ft	13,083 ft	359.64	ASPHALT	0 ft	121 ft
	45 m	3,988 m	356.45		0 m	37 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
07L	DME	IFNE	111.75 MHz	18 nm	-	-	357 ft
				33 km	-		357 m
25C	DME	IFCW	111.55 MHz	18 nm	-	-	364 ft
				33 km	-		364 m
25R	DME	IFNW	111.35 MHz	18 nm	-	-	357 ft
				33 km	-		357 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
07C	LOC-ILS	IFCE	110.55 MHz	18 nm	69.59	-	362 ft
				33 km	66.40		362 m
07L	LOC-ILS	IFNE	111.75 MHz	18 nm	69.58	-	362 ft
				33 km	66.39		362 m
07R	LOC-ILS	IFSE	110.95 MHz	18 nm	69.61	-	362 ft
				33 km	66.42		362 m
25C	LOC-ILS	IFCW	111.55 MHz	18 nm	249.59	-	362 ft
				33 km	246.40		362 m
25L	LOC-ILS	IFSW	111.15 MHz	18 nm	249.61	-	362 ft
				33 km	246.42		362 m
25R	LOC-ILS	IFNW	111.35 MHz	18 nm	249.58	-	362 ft
				33 km	246.39		362 m
07C	GS	IFCE	110.55 MHz	10 nm	69.59	3.00	362 ft
				19 km	66.40		362 m
07L	GS	IFNE	111.75 MHz	10 nm	69.58	3.00	362 ft
				19 km	66.39		362 m
07R	GS	IFSE	110.95 MHz	10 nm	69.61	3.00	362 ft
				19 km	66.42		362 m
25C	GS	IFCW	111.55 MHz	10 nm	249.59	3.00	362 ft
				19 km	246.40		362 m
25L	GS	IFSW	111.15 MHz	10 nm	249.61	3.00	362 ft
				19 km	246.42		362 m
25R	GS	IFNW	111.35 MHz	10 nm	249.58	3.00	362 ft
				19 km	246.39		362 m

KBOS

Region: UNITED STATES
Timezone: AMERICA/NEW_YORK
Runways: 6

Elevation: 19 ft / 6 m
Location: 42.363000 -71.006800
Magnetic Var: 14.281 W

METAR

KBOS 131854Z 12011KT 10SM FEW055 FEW090 SCT250 26/14 A2994 RMK A02 SLP139 T02560144

TAF

TAF AMD KBOS 131830Z 1319/1424 22010G17KT P6SM FEW050 TEMPO 1319/1321 15005KT FM140700 21010KT P6SM FEW250 FM1416

Frequencies

REC - 135.00 MHz - D-ATIS	COM - 122.95 MHz - UNICOM
CLD - 121.65 MHz - CLEARANCE DELIVERY	GND - 121.75 MHz - BOSTON GROUND
GND - 121.90 MHz - BOSTON GROUND	TWR - 128.80 MHz - BOSTON TOWER
TWR - 124.72 MHz - BOSTON TOWER	TWR - 132.22 MHz - BOSTON TOWER
APP - 118.25 MHz - BOSTON APPROACH	APP - 120.60 MHz - BOSTON APPROACH
APP - 127.20 MHz - BOSTON APPROACH	DEP - 133.00 MHz - BOSTON DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
15R	148 ft	10,092 ft	135.27	ASPHALT	883 ft	197 ft
	45 m	3,076 m	149.55		269 m	60 m
33L	148 ft	10,092 ft	315.29	ASPHALT	0 ft	167 ft
	45 m	3,076 m	329.57		0 m	51 m
04R	148 ft	10,012 ft	19.69	ASPHALT	1,155 ft	420 ft
	45 m	3,052 m	33.97		352 m	128 m
22L	148 ft	10,012 ft	199.69	ASPHALT	1,201 ft	200 ft
	45 m	3,052 m	213.97		366 m	61 m
04L	148 ft	7,871 ft	19.66	ASPHALT	0 ft	1,250 ft
	45 m	2,399 m	33.94		0 m	381 m
22R	148 ft	7,871 ft	199.66	ASPHALT	820 ft	200 ft
	45 m	2,399 m	213.94		250 m	61 m
09	148 ft	7,008 ft	76.51	ASPHALT	0 ft	932 ft
	45 m	2,136 m	90.79		0 m	284 m
27	148 ft	7,008 ft	256.53	ASPHALT	0 ft	161 ft
	45 m	2,136 m	270.81		0 m	49 m
14	98 ft	5,005 ft	125.76	ASPHALT	0 ft	0 ft
	30 m	1,526 m	140.04		0 m	0 m
32	98 ft	5,005 ft	305.77	ASPHALT	0 ft	801 ft
	30 m	1,526 m	320.05		0 m	244 m
15L	98 ft	2,558 ft	135.31	ASPHALT	0 ft	305 ft
	30 m	780 m	149.59		0 m	93 m
33R	98 ft	2,558 ft	315.31	ASPHALT	0 ft	59 ft
	30 m	780 m	329.59		0 m	18 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
04R	DME	IBOS	110.30 MHz	18 nm	-	-	35 ft
				33 km	-		35 m
15R	DME	IMDC	110.70 MHz	18 nm	-	-	27 ft
				33 km	-		27 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
22L	DME	ILQN	110.30 MHz	18 nm 33 km	- -	-	35 ft 35 m
27	DME	IDGU	111.30 MHz	18 nm 33 km	- -	-	28 ft 28 m
33L	DME	ILIP	110.70 MHz	18 nm 33 km	- -	-	19 ft 19 m
04R	LOC-ILS	IBOS	110.30 MHz	18 nm 33 km	19.68 33.96	-	20 ft 20 m
15R	LOC-ILS	IMDC	110.70 MHz	18 nm 33 km	135.28 149.56	-	20 ft 20 m
22L	LOC-ILS	ILQN	110.30 MHz	18 nm 33 km	199.68 213.96	-	20 ft 20 m
27	LOC-ILS	IDGU	111.30 MHz	18 nm 33 km	256.52 270.80	-	20 ft 20 m
33L	LOC-ILS	ILIP	110.70 MHz	18 nm 33 km	315.28 329.56	-	20 ft 20 m
04R	GS	IBOS	110.30 MHz	10 nm 19 km	19.68 33.96	3.00	20 ft 20 m
15R	GS	IMDC	110.70 MHz	10 nm 19 km	135.28 149.56	3.00	20 ft 20 m
22L	GS	ILQN	110.30 MHz	10 nm 19 km	199.68 213.96	3.00	20 ft 20 m
27	GS	IDGU	111.30 MHz	10 nm 19 km	256.52 270.80	3.00	20 ft 20 m
33L	GS	ILIP	110.70 MHz	10 nm 19 km	315.28 329.56	3.00	20 ft 20 m