

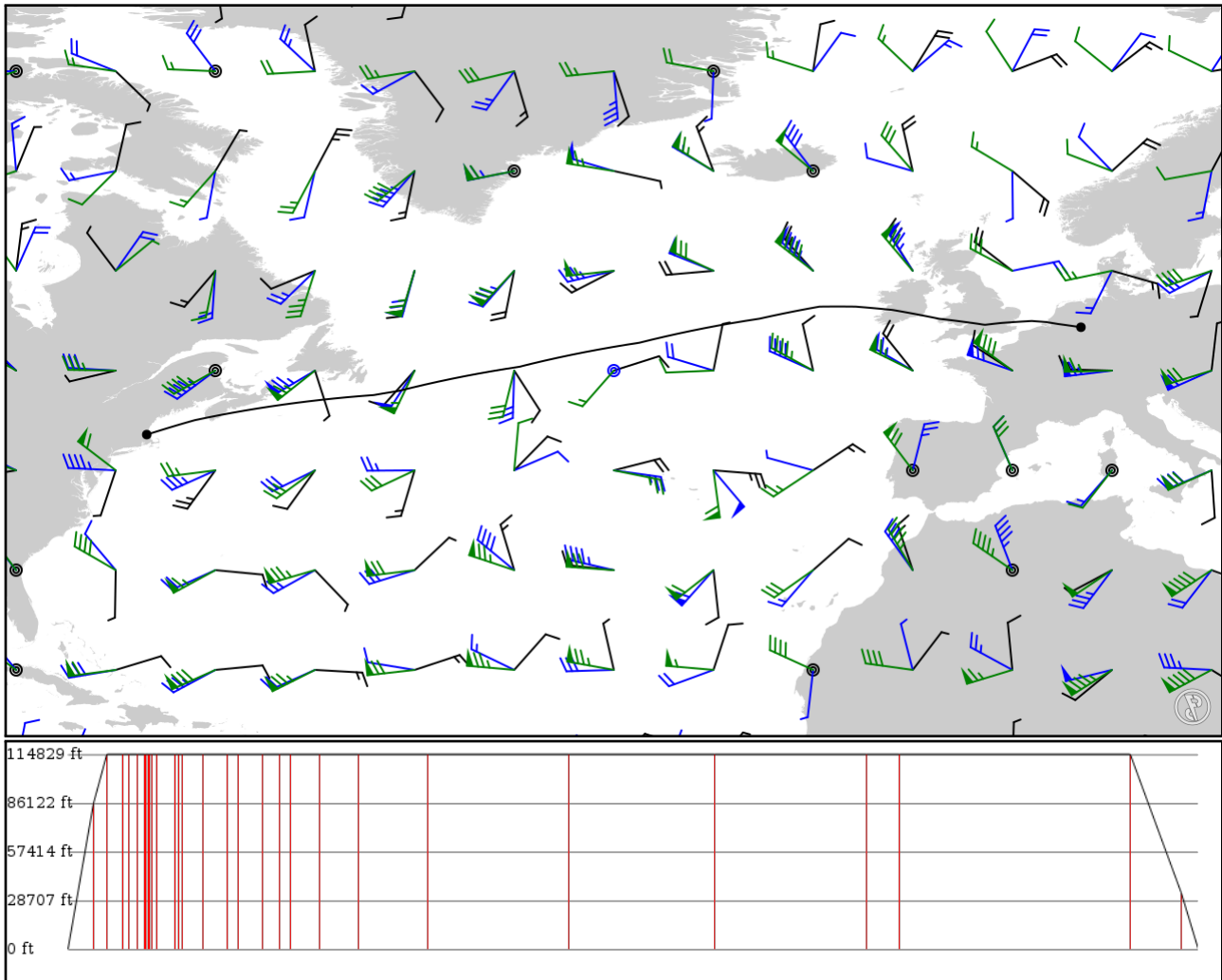
EDDL
Duesseldorf

KBOS
Boston Logan Intl

2024/05/20 1239Z

EDDL BREDA **UZ291** REFSO **L980** LOGAN **UL980** TRIPO **L980** LAM **UL179** CPT **L9** KENET **UL9** BASET **UL18** DIKAS
UL9 STU **L9** ABAGU **UL9** MALOT +52.000_--20.000 **C** +46.000_--50.000 BANCS **N76A** TUSKY **J575** CANAL KBOS

3173.46 nm / 5877.25 km



Notes

Using NAT tracks from 7/11/2017

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
EDDL	-	51.28942	0 ft	-	Duesseldorf
APT	-	6.76664	0 m		
BREDA	-	51.56029	26,200 ft	73	-
FIX	-	4.85333	7,986 m		
HSD	UZ291	51.72272	35,000 ft	38	HAAMSTEDE VOR
VOR	AWY-HI	3.85818	10,668 m		
REFSO	UZ291	51.80957	35,000 ft	44	-
FIX	AWY-HI	2.66691	10,668 m		
XAMAN	L980	51.78476	35,000 ft	16	-
FIX	AWY-LO	2.22423	10,668 m		
LOGAN	L980	51.74750	35,000 ft	22	-
FIX	AWY-LO	1.61194	10,668 m		
TRIPO	UL980	51.71306	35,000 ft	19	-
FIX	AWY-HI	1.08278	10,668 m		
SABER	L980	51.70389	35,000 ft	4	-
FIX	AWY-LO	0.94944	10,668 m		
MANGO	L980	51.69278	35,000 ft	5	-
FIX	AWY-LO	0.79056	10,668 m		
BRASO	L980	51.68528	35,000 ft	4	-
FIX	AWY-LO	0.68333	10,668 m		
WESUL	L980	51.67083	35,000 ft	7	-
FIX	AWY-LO	0.48611	10,668 m		
LAM	L980	51.64611	35,000 ft	12	LAMBOURNE VOR-DME
VOR	AWY-LO	0.15167	10,668 m		
CPT	UL179	51.49167	35,000 ft	52	COMPTON VOR-DME
VOR	AWY-HI	-1.21972	10,668 m		
KENET	L9	51.52056	35,000 ft	8	-
FIX	AWY-LO	-1.45500	10,668 m		
BASET	UL9	51.56389	35,000 ft	9	-
FIX	AWY-HI	-1.71000	10,668 m		
DIKAS	UL18	51.77694	35,000 ft	59	-
FIX	AWY-HI	-3.25917	10,668 m		
STU	UL9	51.99472	35,000 ft	67	STRUMBLE VOR-DME
VOR	AWY-HI	-5.04028	10,668 m		
SLANY	L9	52.15861	35,000 ft	31	-
FIX	AWY-LO	-5.84222	10,668 m		
ABAGU	L9	52.50333	35,000 ft	69	-
FIX	AWY-LO	-7.64667	10,668 m		
SHA	UL9	52.72101	35,000 ft	47	SHANNON VOR-DME
VOR	AWY-HI	-8.88521	10,668 m		
UNBEG	UL9	52.80500	35,000 ft	31	-
FIX	AWY-HI	-9.73000	10,668 m		
BURAK	UL9	53.00000	35,000 ft	83	-
FIX	AWY-HI	-12.00000	10,668 m		
MALOT	UL9	53.00000	35,000 ft	108	-
FIX	AWY-HI	-15.00000	10,668 m		
+52.000_--20.000	-	52.00000	35,000 ft	192	-
LATLON	-	-20.00000	10,668 m		
+50.000_--30.000	C	50.00000	35,000 ft	396	-
LATLON	NAT	-30.00000	10,668 m		
+48.000_--40.000	C	48.00000	35,000 ft	411	-
LATLON	NAT	-40.00000	10,668 m		
+46.000_--50.000	C	46.00000	35,000 ft	426	-

Ident Type LATLON	Via	Lat Lon	Alt	Dist (nm)	Name
	NAT	-50.00000	10,668 m		
BANCS FIX	-	45.65000 -52.10333	35,000 ft 10,668 m	90	-
TUSKY FIX	N76A AWY-HI	43.56500 -67.00000	35,000 ft 10,668 m	648	-
CANAL FIX	J575 AWY-HI	42.66903 -70.02271	10,100 ft 3,078 m	143	-
KBOS APT	-	42.36306 -71.00696	0 ft 0 m	47	Boston Logan Intl

EDDL

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

Elevation: 145 ft / 44 m
Location: 51.289400 6.766620
Magnetic Var: 2.681 E

METAR

EDDL 201220Z AUTO 06004KT 340V120 9999 SCT034 BKN048 20/12 Q1011 NOSIG

TAF

TAF EDDL 201100Z 2012/2118 VRB03KT 9999 SCT020 PROB30 TEMPO 2104/2107 3000 BCFG BECMG 2108/2111 03006KT BECMG 2114/2117 4000

Frequencies

REC - 123.77 MHz - ATIS	CLD - 121.77 MHz - CLEARANCE DELIVERY
GND - 121.90 MHz - GROUND	GND - 121.60 MHz - GROUND
GND - 121.67 MHz - GROUND	TWR - 118.30 MHz - TOWER
TWR - 124.35 MHz - TOWER	APP - 128.55 MHz - LANGEN RADAR
APP - 121.35 MHz - LANGEN RADAR	APP - 128.50 MHz - LANGEN RADAR
APP - 128.65 MHz - DUSSELDORF DIRECTOR	DEP - 133.77 MHz - DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
05R	148 ft	9,851 ft	52.68	CONCRETE	984 ft	659 ft
	45 m	3,003 m	50.00		300 m	201 m
23L	148 ft	9,851 ft	232.71	CONCRETE	984 ft	702 ft
	45 m	3,003 m	230.03		300 m	214 m
05L	148 ft	8,866 ft	52.68	CONCRETE	994 ft	906 ft
	45 m	2,702 m	49.99		303 m	276 m
23R	148 ft	8,866 ft	232.70	CONCRETE	971 ft	928 ft
	45 m	2,702 m	230.02		296 m	283 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
05L	LOC-ILS	IDNE	110.95 MHz	18 nm	52.69	-	145 ft
				33 km	50.01		145 m
05R	LOC-ILS	IDSE	110.15 MHz	18 nm	52.70	-	145 ft
				33 km	50.02		145 m
23L	LOC-ILS	IDSW	109.90 MHz	18 nm	232.70	-	145 ft
				33 km	230.02		145 m
23R	LOC-ILS	IDNW	109.30 MHz	18 nm	232.69	-	145 ft
				33 km	230.01		145 m
05L	GS	IDNE	110.95 MHz	10 nm	52.69	3.00	145 ft
				19 km	50.01		145 m
05R	GS	IDSE	110.15 MHz	10 nm	52.70	3.00	145 ft
				19 km	50.02		145 m
23L	GS	IDSW	109.90 MHz	10 nm	232.70	3.00	145 ft
				19 km	230.02		145 m
23R	GS	IDNW	109.30 MHz	10 nm	232.69	3.00	145 ft
				19 km	230.01		145 m

KBOS

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

Elevation: 19 ft / 6 m
Location: 42.363000 -71.006800
Magnetic Var: 14.285 W

METAR

KBOS 201154Z 03005KT 10SM FEW009 BKN012 BKN025 14/11 A3007 RMK A02 SLP181 70004 T01390111 10139 20111 53006

TAF

TAF KBOS 201120Z 2012/2118 04005KT P6SM OVC025 FM201800 09005KT P6SM SCT015 BKN040 FM202100 11007KT P6SM SCT050 FM210100 11007KT P6SM SCT050

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	213.98		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	213.95		250 m	61 m
09	148 ft	7,008 ft	76.51	ASPHALT	0 ft	932 ft
	45 m	2,136 m	90.80		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	140.05		0 m	0 m
32	98 ft	5,005 ft	305.77	ASPHALT	0 ft	801 ft
	30 m	1,526 m	320.06		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	329.60		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