

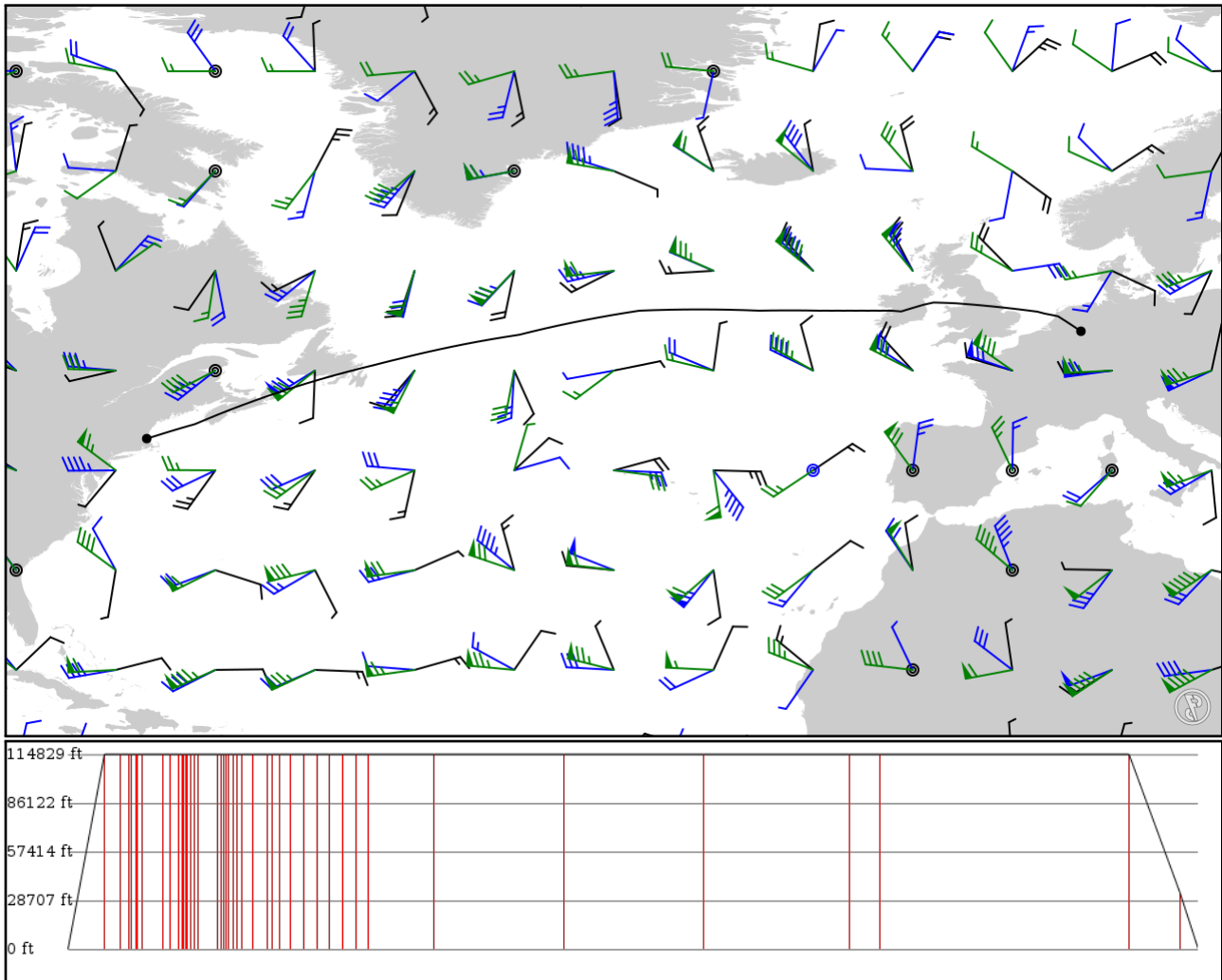
**EDDL**  
Dusseldorf

**KBOS**  
General Edward Lawrence Logan Intl

2024/05/02 0924Z

EDDL SPY **UY70** RAVLO **Y70** OTBED **L60** PENIL **M144** BAGSO **V14** DIGAN 5300N0900W 5300N01000W 5300N01100W  
5300N01200W 5300N01300W 5300N01400W MALOT **J** JOOPY **N261A** TUSKY **J575** CANAL KBOS

3135.44 nm / 5806.83 km



## Notes

Using NAT tracks from 6/9/2022

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 Type	Via	Lat Lon	Alt	Dist (nm)	Name
EDDL	-	51.28940	0 ft	-	Dusseldorf
APT	-	6.76662	0 m		
SPY	-	52.54030	35,000 ft	103	SPIJKERBOOR
VOR	-	4.85378	10,668 m		
MONIL	UY70	52.76080	35,000 ft	42	-
FIX	AWY-HI	3.74664	10,668 m		
RAVLO	UY70	52.91690	35,000 ft	23	-
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		
NISBI	L60	53.35810	35,000 ft	25	-
FIX	AWY-HI	-0.65583	10,668 m		
DOPEK	L60	53.38440	35,000 ft	9	-
FIX	AWY-HI	-0.92556	10,668 m		
ARTIX	L60	53.39500	35,000 ft	4	-
FIX	AWY-HI	-1.03583	10,668 m		
MOGMO	L60	53.41190	35,000 ft	6	-
FIX	AWY-HI	-1.21417	10,668 m		
MAMUL	L60	53.41810	35,000 ft	2	-
FIX	AWY-HI	-1.28000	10,668 m		
ADELU	L60	53.44170	35,000 ft	9	-
FIX	AWY-HI	-1.53694	10,668 m		
BOLBI	L60	53.46670	35,000 ft	9	-
FIX	AWY-HI	-1.81250	10,668 m		
SONEX	L60	53.49810	35,000 ft	13	-
FIX	AWY-HI	-2.17250	10,668 m		
PENIL	L60	53.61580	35,000 ft	53	-
FIX	AWY-HI	-3.66361	10,668 m		
BABRA	M144	53.62750	35,000 ft	10	-
FIX	AWY-HI	-3.94528	10,668 m		
GIGTO	M144	53.63360	35,000 ft	5	-
FIX	AWY-HI	-4.09750	10,668 m		
UNDUX	M144	53.64170	35,000 ft	7	-
FIX	AWY-HI	-4.31083	10,668 m		
SOPAX	M144	53.64690	35,000 ft	5	-
FIX	AWY-HI	-4.45222	10,668 m		
RAMOX	M144	53.66030	35,000 ft	13	-
FIX	AWY-HI	-4.83944	10,668 m		
OGTUG	M144	53.67000	35,000 ft	10	-
FIX	AWY-HI	-5.14722	10,668 m		
BAGSO	M144	53.68000	35,000 ft	12	-
FIX	AWY-HI	-5.50000	10,668 m		
DUB	V14	53.49940	35,000 ft	30	DUBLIN

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
VOR	AWY-LO	-6.30711	10,668 m		
PELIG	V14	53.19960	35,000 ft	40	-
FIX	AWY-LO	-7.33333	10,668 m		
ENOKU	V14	53.10110	35,000 ft	13	-
FIX	AWY-LO	-7.66083	10,668 m		
DIGAN	V14	52.93690	35,000 ft	21	-
FIX	AWY-LO	-8.19758	10,668 m		
5300N0900W	-	53.00000	35,000 ft	29	-
LATLON	-	-9.00000	10,668 m		
5300N01000W	-	53.00000	35,000 ft	36	-
LATLON	-	-10.00000	10,668 m		
5300N01100W	-	53.00000	35,000 ft	36	-
LATLON	-	-11.00000	10,668 m		
5300N01200W	-	53.00000	35,000 ft	36	-
LATLON	-	-12.00000	10,668 m		
5300N01300W	-	53.00000	35,000 ft	36	-
LATLON	-	-13.00000	10,668 m		
5300N01400W	-	53.00000	35,000 ft	36	-
LATLON	-	-14.00000	10,668 m		
MALOT	-	53.00000	35,000 ft	36	-
FIX	-	-15.00000	10,668 m		
53/20	J	53.00000	35,000 ft	180	-
LATLON	NAT	-20.00000	10,668 m		
53/30	J	53.00000	35,000 ft	361	-
LATLON	NAT	-30.00000	10,668 m		
51/40	J	51.00000	35,000 ft	388	-
LATLON	NAT	-40.00000	10,668 m		
49/50	J	49.00000	35,000 ft	403	-
LATLON	NAT	-50.00000	10,668 m		
JOOPY	J	48.50000	35,000 ft	84	-
FIX	NAT	-52.00000	10,668 m		
TUSKY	N261A	43.56500	35,000 ft	690	-
FIX	AWY-HI	-67.00000	10,668 m		
CANAL	J575	42.66900	10,100 ft	143	-
FIX	AWY-HI	-70.02270	3,078 m		
KBOS	-	42.36300	0 ft	47	General Edward Lawrence Logan Intl
APT	-	-71.00680	0 m		

## EDDL

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

Elevation: 145 ft / 44 m  
Location: 51.289400 6.766620  
Magnetic Var: 2.674 E

## METAR

EDDL 020850Z AUTO 16007KT 120V200 CAVOK 22/13 Q0998 NOSIG

## TAF

TAF EDDL 020500Z 0206/0312 08003KT CAVOK BECMG 0212/0215 24006KT TEMPO 0214/0221 16014KT TSRA BKN030CB PROB40 TEM

## 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	50.00		303 m	276 m
23R	148 ft	8,866 ft	232.70	CONCRETE	971 ft	928 ft
	45 m	2,702 m	230.03		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	50.02		145 m
05R	LOC-ILS	IDSE	110.15 MHz	18 nm	52.70	-	145 ft
				33 km	50.03		145 m
23L	LOC-ILS	IDSW	109.90 MHz	18 nm	232.70	-	145 ft
				33 km	230.03		145 m
23R	LOC-ILS	IDNW	109.30 MHz	18 nm	232.69	-	145 ft
				33 km	230.02		145 m
05L	GS	IDNE	110.95 MHz	10 nm	52.69	3.00	145 ft
				19 km	50.02		145 m
05R	GS	IDSE	110.15 MHz	10 nm	52.70	3.00	145 ft
				19 km	50.03		145 m
23L	GS	IDSW	109.90 MHz	10 nm	232.70	3.00	145 ft
				19 km	230.03		145 m
23R	GS	IDNW	109.30 MHz	10 nm	232.69	3.00	145 ft
				19 km	230.02		145 m

## KBOS

Region: UNITED STATES  
Timezone: AMERICA/NEW\_YORK  
Runways: 6

Elevation: 19 ft / 6 m  
Location: 42.363000 -71.006800  
Magnetic Var: 14.288 W

## METAR

KBOS 020854Z 18007KT 10SM OVC029 09/07 A2999 RMK A02 SLP155 T00940072 58009

## TAF

TAF AMD KBOS 020828Z 0208/0312 17004KT P6SM BKN030 FM021000 18005KT P6SM BKN015 FM021800 19009KT P6SM SCT050 FM022000 18005KT P6SM BKN030

## 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	149.56		269 m	60 m
33L	148 ft	10,092 ft	315.29	ASPHALT	0 ft	167 ft
	45 m	3,076 m	329.58		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	270.82		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 33.97	-	20 ft 20 m
15R	LOC-ILS	IMDC	110.70 MHz	18 nm 33 km	135.28 149.57	-	20 ft 20 m
22L	LOC-ILS	ILQN	110.30 MHz	18 nm 33 km	199.68 213.97	-	20 ft 20 m
27	LOC-ILS	IDGU	111.30 MHz	18 nm 33 km	256.52 270.81	-	20 ft 20 m
33L	LOC-ILS	ILIP	110.70 MHz	18 nm 33 km	315.28 329.57	-	20 ft 20 m
04R	GS	IBOS	110.30 MHz	10 nm 19 km	19.68 33.97	3.00	20 ft 20 m
15R	GS	IMDC	110.70 MHz	10 nm 19 km	135.28 149.57	3.00	20 ft 20 m
22L	GS	ILQN	110.30 MHz	10 nm 19 km	199.68 213.97	3.00	20 ft 20 m
27	GS	IDGU	111.30 MHz	10 nm 19 km	256.52 270.81	3.00	20 ft 20 m
33L	GS	ILIP	110.70 MHz	10 nm 19 km	315.28 329.57	3.00	20 ft 20 m