

KBOS

General Edward Lawrence Logan Intl

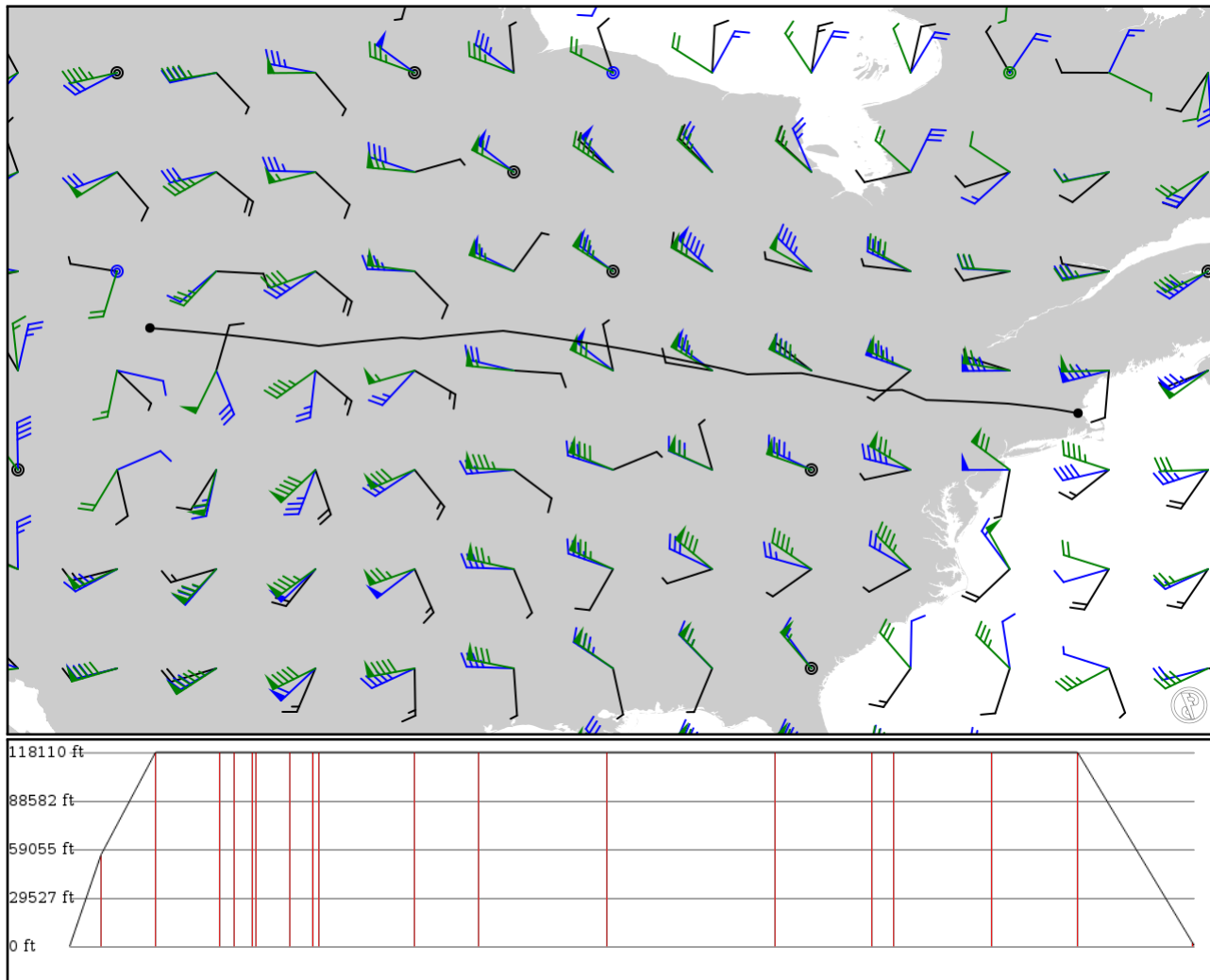
KBIL

Billings Logan Intl

2024/05/12 0954Z

KBOS GDM Q935 HANKK Q140 AHPAH Q812 WELOK Q138 DKOTA ABR J32 DPR J16 BIL KBIL

1649.65 nm / 3055.16 km



Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 36000ft
- Cruise Speed: 420kts
- Descent Rate: 1500ft/min
- Descent Speed: 250kts

Options:

- Use NATs: no
- Use PACOTS: no
- Use low airways: no
- Use high airways: yes

Route

Ident Type		Via	Lat Lon	Alt	Dist (nm)	Name
KBOS	-	42.36300	0 ft	-	General	Edward Lawrence Logan Intl
APT	-	-71.00680	0 m			
GDM	-	42.54590	17,000 ft	47	GARDNER	
VOR	-	-72.05820	5,182 m			
PONCT	Q935	42.74690	36,000 ft	78	-	
FIX	AWY-HI	-73.81340	10,973 m			
FABEN	Q935	42.85330	36,000 ft	94	-	
FIX	AWY-HI	-75.95220	10,973 m			
AUDIL	Q935	42.87190	36,000 ft	21	-	
FIX	AWY-HI	-76.44310	10,973 m			
JOSSY	Q935	42.89160	36,000 ft	26	-	
FIX	AWY-HI	-77.04360	10,973 m			
HANKK	Q935	42.89500	36,000 ft	4	-	
FIX	AWY-HI	-77.15420	10,973 m			
AHPAH	Q140	43.30530	36,000 ft	49	-	
FIX	AWY-HI	-78.12640	10,973 m			
KELTI	Q812	43.28250	36,000 ft	35	-	
FIX	AWY-HI	-78.93330	10,973 m			
AGDOX	Q812	43.28430	36,000 ft	7	-	
FIX	AWY-HI	-79.10440	10,973 m			
NOSIK	Q812	43.98330	36,000 ft	140	-	
FIX	AWY-HI	-82.19790	10,973 m			
ZOHAN	Q812	43.93250	36,000 ft	94	-	
FIX	AWY-HI	-84.38580	10,973 m			
CEWDA	Q812	44.80890	36,000 ft	186	-	
FIX	AWY-HI	-88.55000	10,973 m			
WELOK	Q812	45.69060	36,000 ft	247	-	
FIX	AWY-HI	-94.25800	10,973 m			
DKOTA	Q138	45.37140	36,000 ft	142	-	
FIX	AWY-HI	-97.62420	10,973 m			
ABR	-	45.41740	36,000 ft	31	ABERDEEN	
VOR	-	-98.36870	10,973 m			
DPR	J32	45.07820	36,000 ft	142	DUPREE	
VOR	AWY-HI	-101.71500	10,973 m			
RECAP	J16	45.44110	36,000 ft	125	-	
FIX	AWY-HI	-104.64400	10,973 m			
BIL	J16	45.80860	700 ft	168	BILLINGS	
VOR	AWY-HI	-108.62500	213 m			
KBIL	-	45.80770	0 ft	3	Billings Logan Intl	
APT	-	-108.54600	0 m			

KBOS

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

Elevation: 19 ft / 6 m
Location: 42.363000 -71.006800
Magnetic Var: 14.286 W

METAR

KBOS 120854Z 22003KT 10SM SCT140 BKN220 07/04 A2988 RMK A02 SLP117 T00720044 55001

TAF

TAF AMD KBOS 120902Z 1209/1312 24003KT P6SM FEW030 BKN250 FM121400 11007KT P6SM BKN090 FM121700 11010KT P6SM BKN0

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	329.57		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	270.82		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

KBIL

Region: UNITED STATES

Timezone: AMERICA/DENVER

Runways: 3

Elevation: 3,662 ft / 1,116 m

Location: 45.807700 -108.546000

Magnetic Var: 9.955 E

METAR

KBIL 120753Z 22008KT 10SM FEW085 14/03 A2988 RMK AO2 SLP093 T01390033 \$

TAF

KBIL 120534Z 1206/1306 30010KT P6SM SCT150 FM120700 25008KT P6SM SCT200 FM121600 36008KT P6SM SCT200 FM130000 060

Frequencies

COM - 122.95 MHz - BILLINGS UNICOM

GND - 121.90 MHz - BILLINGS GROUND

TWR - 257.80 MHz - BILLINGS TOWER (2)

APP - 119.20 MHz - BILLINGS APPROACH (EAST)

DEP - 120.50 MHz - BILLINGS DEPARTURE (WEST)

REC - 126.30 MHz - ATIS

TWR - 127.20 MHz - BILLINGS TOWER (1)

DEP - 119.20 MHz - BILLINGS DEPARTURE (EAST)

APP - 120.50 MHz - BILLINGS APPROACH (WEST)

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
10L	150 ft	10,493 ft	111.77	ASPHALT	0 ft	200 ft
	46 m	3,198 m	101.82		0 m	61 m
28R	150 ft	10,493 ft	291.80	ASPHALT	0 ft	200 ft
	46 m	3,198 m	281.85		0 m	61 m
07	75 ft	5,488 ft	83.97	ASPHALT	0 ft	0 ft
	23 m	1,673 m	74.02		0 m	0 m
25	75 ft	5,488 ft	263.99	ASPHALT	0 ft	0 ft
	23 m	1,673 m	254.03		0 m	0 m
10R	75 ft	3,793 ft	111.70	ASPHALT	0 ft	0 ft
	23 m	1,156 m	101.74		0 m	0 m
28L	75 ft	3,793 ft	291.71	ASPHALT	0 ft	0 ft
	23 m	1,156 m	281.75		0 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
28R	DME	IBMO	111.50 MHz	18 nm	-	-	3,649 ft
				33 km	-		3,649 m
10L	LOC-ILS	IBIL	110.30 MHz	18 nm	111.80	-	3,492 ft
				33 km	101.85		3,492 m
28R	LOC-ILS	IBMO	111.50 MHz	18 nm	291.77	-	3,584 ft
				33 km	281.81		3,584 m
10L	GS	IBIL	110.30 MHz	10 nm	112.57	3.00	3,571 ft
				19 km	102.62		3,571 m
28R	GS	IBMO	111.50 MHz	10 nm	292.57	3.00	3,488 ft
				19 km	282.62		3,488 m