

KBIL

Billings Logan Intl

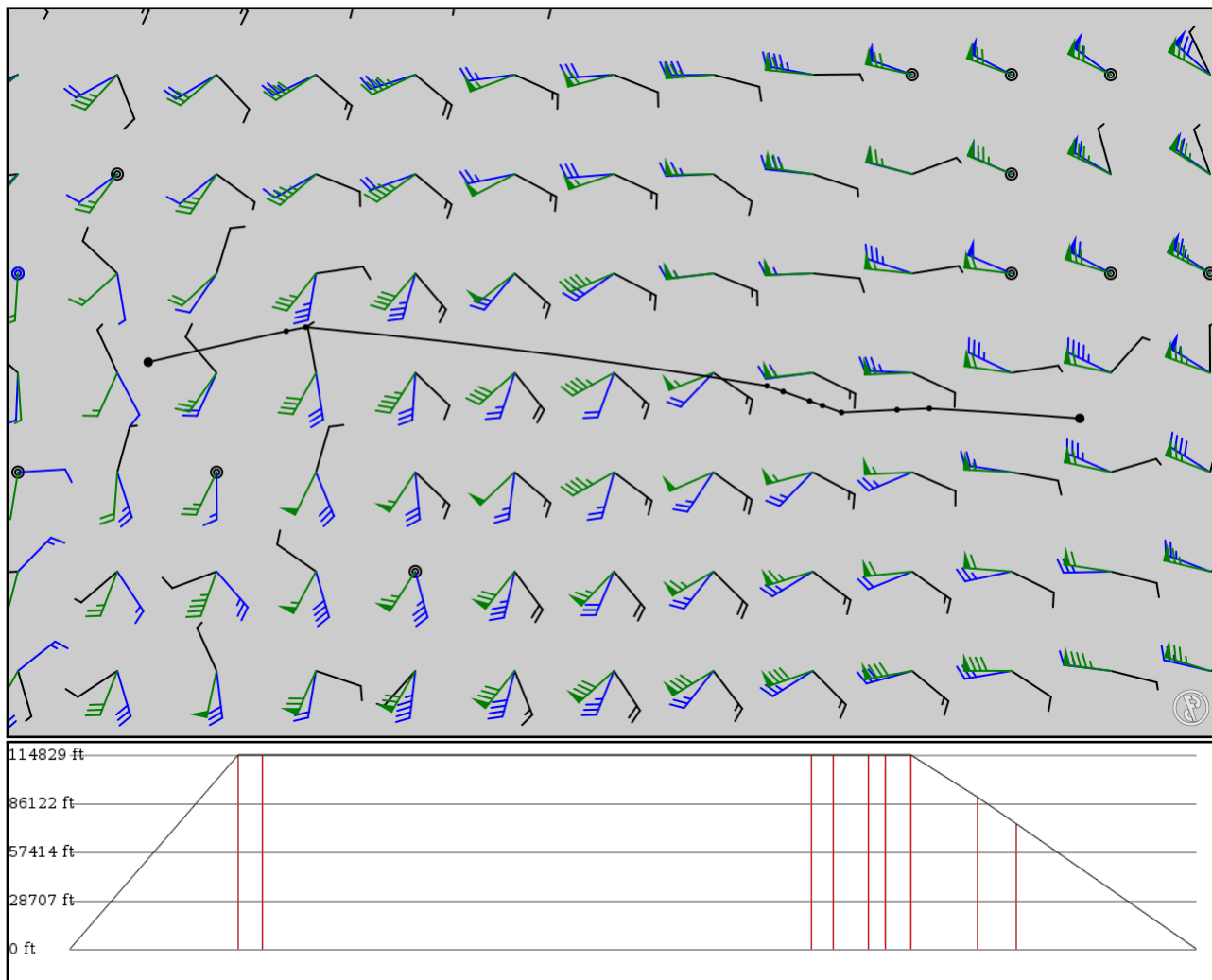
KMSP

Minneapolis St Paul International

2024/05/17 2226Z

KBIL ASHLI V2 MLS J90 ABR V24 ATY V78 ARDUE KMSP

660.76 nm / 1223.73 km



Notes

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
KBIL	-	45.80770	0 ft	-	Billings Logan Intl
APT	-	-108.54600	0 m		
ASHLI	-	46.31670	35,000 ft	99	-
FIX	-	-106.27700	10,668 m		
MLS	V2	46.38220	35,000 ft	13	MILES CITY
VOR	AWY-LO	-105.95400	10,668 m		
ABR	J90	45.41740	35,000 ft	322	ABERDEEN
VOR	AWY-HI	-98.36870	10,668 m		
FIBDA	V24	45.32410	35,000 ft	12	-
FIX	AWY-LO	-98.10260	10,668 m		
CALAG	V24	45.16890	35,000 ft	20	-
FIX	AWY-LO	-97.66560	10,668 m		
WICKA	V24	45.09360	35,000 ft	9	-
FIX	AWY-LO	-97.45560	10,668 m		
ATY	V24	44.97970	35,000 ft	14	WATERTOWN
VOR	AWY-LO	-97.14170	10,668 m		
DAWSO	V78	45.02350	27,400 ft	38	-
FIX	AWY-LO	-96.22770	8,352 m		
ARDUE	V78	45.04550	22,600 ft	22	-
FIX	AWY-LO	-95.69740	6,888 m		
KMSP	-	44.88190	0 ft	105	Minneapolis St Paul International
APT	-	-93.22200	0 m		

KBIL

Region: UNITED STATES
Timezone: AMERICA/DENVER
Runways: 3

Elevation: 3,662 ft / 1,116 m
Location: 45.807700 -108.546000
Magnetic Var: 9.953 E

METAR

KBIL 172221Z 06006KT 10SM -TSRA FEW060CB BKN090 BKN140 16/06 A2957 RMK A02 RAB20 TSB21 OCNL LTGICCG NW TS NW MOV E

TAF

TAF AMD KBIL 172147Z 1722/1818 07010KT P6SM VCTS FEW060CB BKN110 TEMPO 1722/1724 27014G22KT FM180000 31015G25KT P

Frequencies

COM - 122.95 MHz - BILLINGS UNICOM	REC - 126.30 MHz - ATIS
GND - 121.90 MHz - BILLINGS GROUND	TWR - 127.20 MHz - BILLINGS TOWER (1)
TWR - 257.80 MHz - BILLINGS TOWER (2)	DEP - 119.20 MHz - BILLINGS DEPARTURE (EAST)
APP - 119.20 MHz - BILLINGS APPROACH (EAST)	APP - 120.50 MHz - BILLINGS APPROACH (WEST)
DEP - 120.50 MHz - BILLINGS DEPARTURE (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	101.75		0 m	0 m
28L	75 ft	3,793 ft	291.71	ASPHALT	0 ft	0 ft
	23 m	1,156 m	281.76		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

KMSP

Region: UNITED STATES
Timezone: AMERICA/CHICAGO
Runways: 4

Elevation: 841 ft / 256 m
Location: 44.881900 -93.222000
Magnetic Var: 0.278 W

METAR

KMSP 172153Z 22014G25KT 10SM FEW070 SCT100 29/09 A2958 RMK A02 PK WND 23026/2103 SLP012 VIRGA N T02940089

TAF

TAF AMD KMSP 172056Z 1721/1824 19014G24KT P6SM VCSH SCT100 FM180200 17012KT P6SM SCT100 WS020/20045KT FM181400 21

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	8,008 ft	169.56	CONCRETE	0 ft	397 ft
	46 m	2,441 m	169.83		0 m	121 m
35	150 ft	8,008 ft	349.56	CONCRETE	0 ft	394 ft
	46 m	2,441 m	349.84		0 m	120 m
12L	150 ft	8,190 ft	121.42	CONCRETE	0 ft	397 ft
	46 m	2,496 m	121.69		0 m	121 m
30R	150 ft	8,190 ft	301.44	CONCRETE	203 ft	394 ft
	46 m	2,496 m	301.71		62 m	120 m
12R	200 ft	9,985 ft	121.42	CONCRETE	0 ft	1,194 ft
	61 m	3,043 m	121.70		0 m	364 m
30L	200 ft	9,985 ft	301.44	CONCRETE	0 ft	781 ft
	61 m	3,043 m	301.72		0 m	238 m
04	150 ft	11,118 ft	44.90	CONCRETE	1,660 ft	0 ft
	46 m	3,389 m	45.18		506 m	0 m
22	150 ft	11,118 ft	224.92	CONCRETE	0 ft	410 ft
	46 m	3,389 m	225.20		0 m	125 m

Approach Nav aids

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

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
30R	DME	IINN	110.70 MHz	18 nm	-	-	813 ft
				33 km	-		813 m
35	DME	IBMA	110.95 MHz	18 nm	-	-	822 ft
				33 km	-		822 m
12L	LOC-ILS	IPJL	110.70 MHz	18 nm	121.43	-	841 ft
				33 km	121.71		841 m
12R	LOC-ILS	IHKZ	110.30 MHz	18 nm	121.44	-	841 ft
				33 km	121.72		841 m
30L	LOC-ILS	IMSP	110.30 MHz	18 nm	301.44	-	841 ft
				33 km	301.72		841 m
30R	LOC-ILS	IINN	110.70 MHz	18 nm	301.43	-	841 ft
				33 km	301.71		841 m
35	LOC-ILS	IBMA	110.95 MHz	18 nm	349.56	-	841 ft
				33 km	349.84		841 m
04	LOC-LOC	IAPL	109.30 MHz	18 nm	44.92	-	841 ft
				33 km	45.20		841 m
17	LOC-LOC	ITJZ	110.95 MHz	18 nm	169.56	-	841 ft
				33 km	169.84		841 m
22	LOC-LOC	ISIJ	110.50 MHz	18 nm	224.92	-	841 ft
				33 km	225.20		841 m
12L	GS	IPJL	110.70 MHz	10 nm	121.43	3.00	841 ft
				19 km	121.71		841 m
12R	GS	IHKZ	110.30 MHz	10 nm	121.44	3.00	841 ft
				19 km	121.72		841 m
30L	GS	IMSP	110.30 MHz	10 nm	301.44	3.00	841 ft
				19 km	301.72		841 m
30R	GS	IINN	110.70 MHz	10 nm	301.43	3.00	841 ft
				19 km	301.71		841 m
35	GS	IBMA	110.95 MHz	10 nm	349.56	3.00	841 ft
				19 km	349.84		841 m