

KBIS

Bismarck Muni

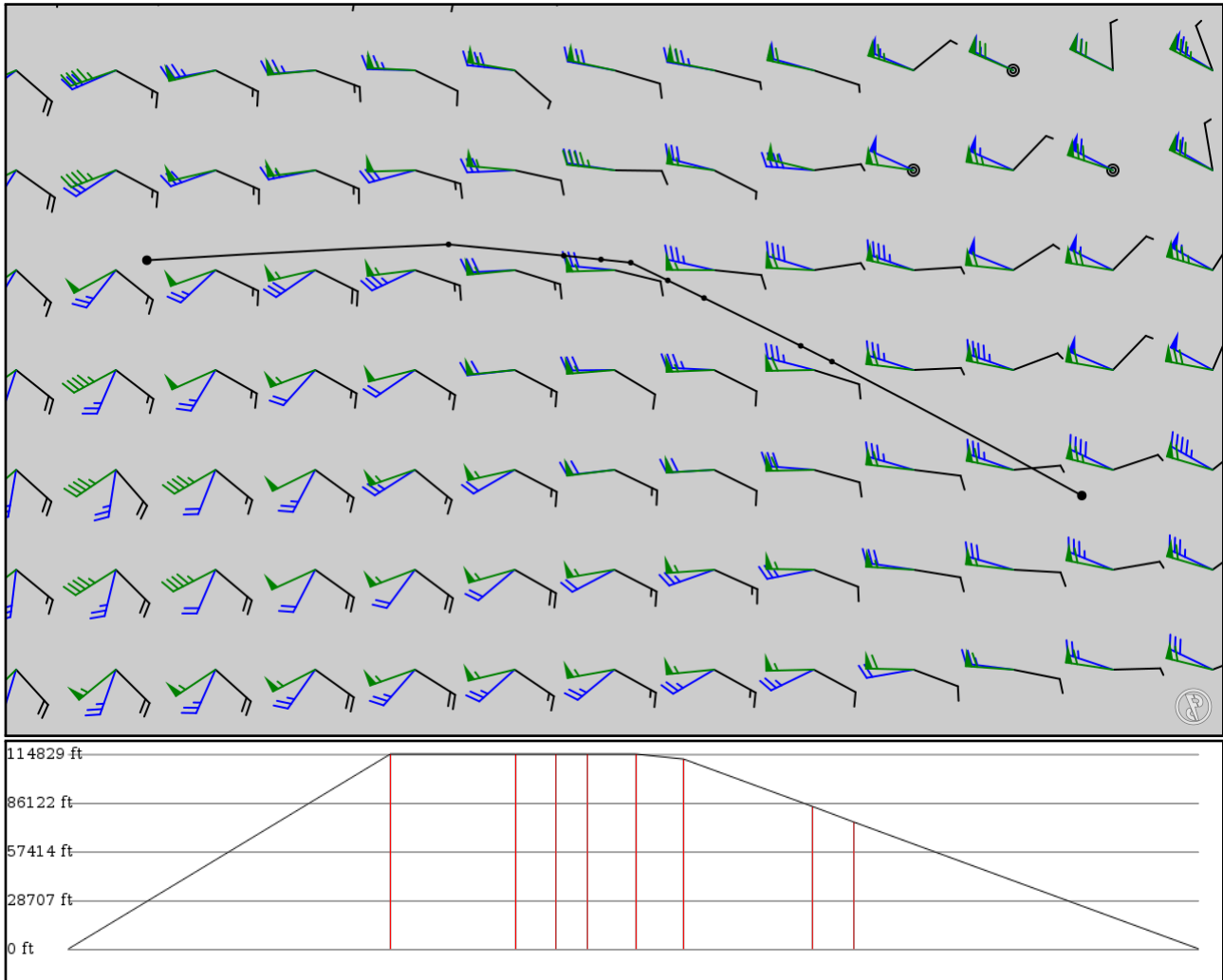
KMSP

Minneapolis-St Paul International Airport

2024/04/28 0116Z

KBIS DUXHO V2 AXN KMSP

349.85 nm / 647.91 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		Via	Lat	Alt	Dist	Name
Type			Lon		(nm)	
KBIS	-	46.77240	0 ft	-	Bismarck Muni	
APT	-	-100.74500	0 m			
DUXHO	-	46.89980	35,000 ft	100	-	
FIX	-	-98.31760	10,668 m			
CHAFE	V2	46.80940	35,000 ft	38	-	
FIX	AWY-LO	-97.39010	10,668 m			
HONET	V2	46.77860	35,000 ft	12	-	
FIX	AWY-LO	-97.09100	10,668 m			
FAR	V2	46.75330	35,000 ft	9	FARGO	
VOR	AWY-LO	-96.85130	10,668 m			
WIRDE	V2	46.61050	35,000 ft	14	-	
FIX	AWY-LO	-96.55340	10,668 m			
PANIC	V2	46.46920	34,100 ft	14	-	
FIX	AWY-LO	-96.26190	10,394 m			
TILER	V2	46.08480	25,600 ft	39	-	
FIX	AWY-LO	-95.48390	7,803 m			
AXN	V2	45.95840	22,800 ft	12	ALEXANDRIA	
VOR	AWY-LO	-95.23260	6,949 m			
KMSP	-	44.88190	0 ft	106	Minneapolis-St Paul International Airport	
APT	-	-93.22200	0 m			

KBIS

Region: UNITED STATES
Timezone: AMERICA/CHICAGO
Runways: 2

Elevation: 1,661 ft / 506 m
Location: 46.772400 -100.745000
Magnetic Var: 5.339 E

METAR

KBIS 280052Z AUTO 06013KT 10SM CLR 11/02 A3000 RMK A02 SLP165 T01060022

TAF

KBIS 272322Z 2800/2824 05011KT P6SM FEW030 FM280900 08007KT P6SM OVC050 FM281300 08009KT P6SM OVC020 FM282200 060

Frequencies

TWR - 118.30 MHz - TOWER
APP - 126.30 MHz - APPROACH/DEPARTURE
GND - 121.90 MHz - GROUND

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
03	102 ft	6,592 ft	38.97	CONCRETE	0 ft	203 ft
	31 m	2,009 m	33.63		0 m	62 m
21	102 ft	6,592 ft	218.98	CONCRETE	0 ft	200 ft
	31 m	2,009 m	213.64		0 m	61 m
13	151 ft	8,783 ft	137.66	CONCRETE	0 ft	200 ft
	46 m	2,677 m	132.32		0 m	61 m
31	151 ft	8,783 ft	317.68	CONCRETE	0 ft	200 ft
	46 m	2,677 m	312.34		0 m	61 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
13	LOC-ILS	IBZX	111.50 MHz	18 nm	137.69	-	1,644 ft
				33 km	132.35		1,644 m
31	LOC-ILS	IBIS	110.30 MHz	18 nm	317.47	-	1,650 ft
				33 km	312.13		1,650 m
13	GS	IBZX	111.50 MHz	10 nm	138.36	3.00	1,653 ft
				19 km	133.02		1,653 m
31	GS	IBIS	110.30 MHz	10 nm	318.36	3.00	1,641 ft
				19 km	313.02		1,641 m

KMSP

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

Elevation: 841 ft / 256 m
Location: 44.881900 -93.222000
Magnetic Var: 0.274 W

METAR

KMSP 280053Z 01007KT 10SM OVC029 13/07 A2991 RMK AO2 SLP129 T01280072

TAF

KMSP 272325Z 2800/2906 34008KT P6SM OVC028 FM280600 02009KT P6SM OVC022 FM281000 04010KT P6SM OVC018 FM281500 060

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	349.83		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	121.69		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	121.70		841 m
12R	LOC-ILS	IHKZ	110.30 MHz	18 nm	121.44	-	841 ft
				33 km	121.71		841 m
30L	LOC-ILS	IMSP	110.30 MHz	18 nm	301.44	-	841 ft
				33 km	301.71		841 m
30R	LOC-ILS	IINN	110.70 MHz	18 nm	301.43	-	841 ft
				33 km	301.70		841 m
35	LOC-ILS	IBMA	110.95 MHz	18 nm	349.56	-	841 ft
				33 km	349.83		841 m
04	LOC-LOC	IAPL	109.30 MHz	18 nm	44.92	-	841 ft
				33 km	45.19		841 m
17	LOC-LOC	ITJZ	110.95 MHz	18 nm	169.56	-	841 ft
				33 km	169.83		841 m
22	LOC-LOC	ISIJ	110.50 MHz	18 nm	224.92	-	841 ft
				33 km	225.19		841 m
12L	GS	IPJL	110.70 MHz	10 nm	121.43	3.00	841 ft
				19 km	121.70		841 m
12R	GS	IHKZ	110.30 MHz	10 nm	121.44	3.00	841 ft
				19 km	121.71		841 m
30L	GS	IMSP	110.30 MHz	10 nm	301.44	3.00	841 ft
				19 km	301.71		841 m
30R	GS	IINN	110.70 MHz	10 nm	301.43	3.00	841 ft
				19 km	301.70		841 m
35	GS	IBMA	110.95 MHz	10 nm	349.56	3.00	841 ft
				19 km	349.83		841 m