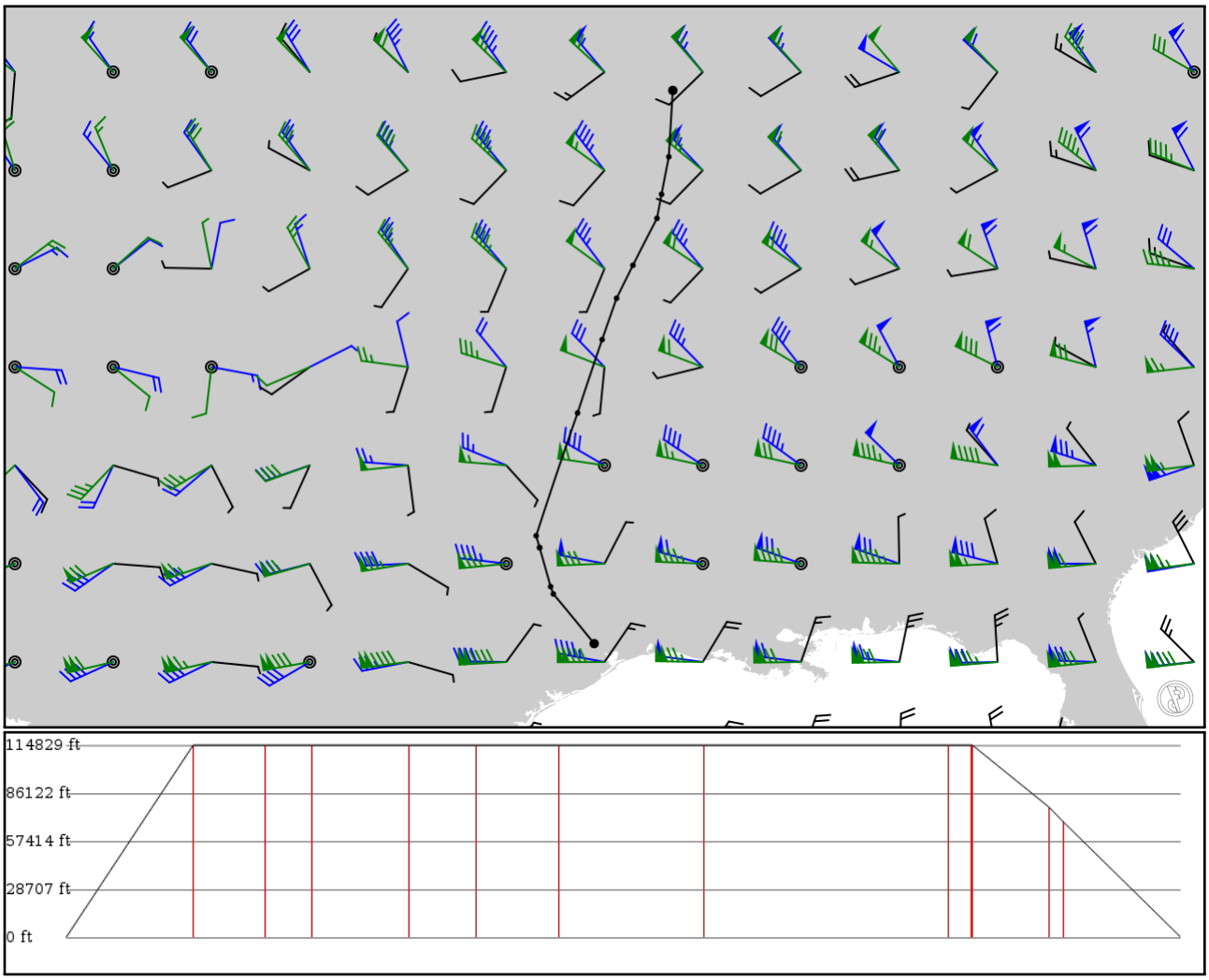
KMSP – KIAH

Minneapolis-St Paul International Airport — George Bush Intercontinental

2024/03/19 0552Z

KMSP MCW **J25** TUL **J87** HOOTZ KIAH

940.12 nm / 1741.11 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: no
- Use high airways: yes

Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
KMSP APT	– –	44.88190 -93.22200	0 ft 0 m	–	Minneapolis-St Paul International Airport
MCW VOR	– –	43.09480 -93.32990	35,000 ft 10,668 m	107	MASON CITY
JORDY FIX	J25 AWY-HI	42.08650 -93.52580	35,000 ft 10,668 m	61	–
DSM VOR	J25 AWY-HI	41.43760 -93.64860	35,000 ft 10,668 m	39	DES MOINES
BACNN FIX	J25 AWY-HI	40.17350 -94.29680	35,000 ft 10,668 m	81	–
MCI VOR	J25 AWY-HI	39.28530 -94.73710	35,000 ft 10,668 m	57	KANSAS CITY
DOSOA FIX	J25 AWY-HI	38.17070 -95.12680	35,000 ft 10,668 m	69	–
TUL VOR	J25 AWY-HI	36.19630 -95.78810	35,000 ft 10,668 m	122	TULSA
CVE VOR	J87 AWY-HI	32.89030 -96.90400	35,000 ft 10,668 m	206	COWBOY (DALLAS)
TANBE FIX	J87 AWY-HI	32.57490 -96.81330	35,000 ft 10,668 m	19	–
CHMPZ FIX	J87 AWY-HI	32.56580 -96.81060	35,000 ft 10,668 m	0	–
TORNN FIX	J87 AWY-HI	31.52040 -96.51470	23,700 ft 7,224 m	64	–
HOOTZ FIX	J87 AWY-HI	31.32290 -96.44070	21,000 ft 6,401 m	12	–
KIAH APT	– –	29.98540 -95.34120	0 ft 0 m	98	George Bush Intercontinental

KMSP

Region: UNITED STATES
Timezone: AMERICA/CHICAGO
Runways: 4
Elevation: 841 ft / 256 m
Location: 44.881900 -93.222000
Magnetic Var: 0.266 W

METAR

KMSP 190453Z 23013G27KT 10SM CLR 02/M14 A2978 RMK AO2 PK WND 23027/0447 SLP095 T00221144

TAF

TAF AMD KMSP 190257Z 1903/2006 25011KT P6SM SCT150 FM190400 23016G26KT P6SM SCT250 WS020/27050KT FM190800 29012G2

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 46 m	8,008 ft 2,441 m	169.56 169.82	CONCRETE	0 ft 0 m	397 ft 121 m
35	150 ft 46 m	8,008 ft 2,441 m	349.56 349.83	CONCRETE	0 ft 0 m	394 ft 120 m
12L	150 ft 46 m	8,190 ft 2,496 m	121.42 121.68	CONCRETE	0 ft 0 m	397 ft 121 m
30R	150 ft 46 m	8,190 ft 2,496 m	301.44 301.70	CONCRETE	203 ft 62 m	394 ft 120 m
12R	200 ft 61 m	9,985 ft 3,043 m	121.42 121.69	CONCRETE	0 ft 0 m	1,194 ft 364 m
30L	200 ft 61 m	9,985 ft 3,043 m	301.44 301.71	CONCRETE	0 ft 0 m	781 ft 238 m
04	150 ft 46 m	11,118 ft 3,389 m	44.90 45.17	CONCRETE	1,660 ft 506 m	0 ft 0 m
22	150 ft 46 m	11,118 ft 3,389 m	224.92 225.19	CONCRETE	0 ft 0 m	410 ft 125 m

Approach Navaids

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

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
30R	DME	IINN	110.70 MHz	18 nm 33 km	– –	–	813 ft 813 m
35	DME	IBMA	110.95 MHz	18 nm 33 km	– –	–	822 ft 822 m
12L	LOC-ILS	IPJL	110.70 MHz	18 nm 33 km	121.43 121.70	–	841 ft 841 m
12R	LOC-ILS	IHKZ	110.30 MHz	18 nm 33 km	121.44 121.71	–	841 ft 841 m
30L	LOC-ILS	IMSP	110.30 MHz	18 nm 33 km	301.44 301.71	–	841 ft 841 m
30R	LOC-ILS	IINN	110.70 MHz	18 nm 33 km	301.43 301.70	–	841 ft 841 m
35	LOC-ILS	IBMA	110.95 MHz	18 nm 33 km	349.56 349.83	–	841 ft 841 m
04	LOC-LOC	IAPL	109.30 MHz	18 nm 33 km	44.92 45.19	–	841 ft 841 m
17	LOC-LOC	ITJZ	110.95 MHz	18 nm 33 km	169.56 169.83	–	841 ft 841 m
22	LOC-LOC	ISIJ	110.50 MHz	18 nm 33 km	224.92 225.19	–	841 ft 841 m
12L	GS	IPJL	110.70 MHz	10 nm 19 km	121.43 121.70	3.00	841 ft 841 m
12R	GS	IHKZ	110.30 MHz	10 nm 19 km	121.44 121.71	3.00	841 ft 841 m
30L	GS	IMSP	110.30 MHz	10 nm 19 km	301.44 301.71	3.00	841 ft 841 m
30R	GS	IINN	110.70 MHz	10 nm 19 km	301.43 301.70	3.00	841 ft 841 m
35	GS	IBMA	110.95 MHz	10 nm 19 km	349.56 349.83	3.00	841 ft 841 m

KIAH

Region: UNITED STATES
Timezone: AMERICA/CHICAGO
Runways: 5

Elevation: 98 ft / 30 m
Location: 29.985400 -95.341200
Magnetic Var: 1.746 E

METAR

KIAH 190453Z 01005KT 10SM FEW160 SCT250 13/02 A3027 RMK AO2 SLP249 T01280017

TAF

KIAH 190246Z 1903/2006 01005KT P6SM BKN250 FM191600 09006KT P6SM SCT100

Frequencies

REC - 124.05 MHz - D-ATIS
CLD - 128.10 MHz - CLEARANCE DELIVERY
GND - 121.70 MHz - HOUSTON GROUND
TWR - 120.72 MHz - HOUSTON TOWER
TWR - 135.15 MHz - HOUSTON TOWER
APP - 120.05 MHz - HOUSTON APPROACH
DEP - 126.67 MHz - HOUSTON DEPARTURE
DEP - 133.60 MHz - HOUSTON DEPARTURE

REC - 122.95 MHz - UNICOM
GND - 119.95 MHz - HOUSTON GROUND
GND - 118.57 MHz - HOUSTON GROUND
TWR - 125.35 MHz - HOUSTON TOWER
TWR - 127.30 MHz - HOUSTON TOWER
APP - 124.35 MHz - HOUSTON APPROACH
DEP - 132.25 MHz - HOUSTON DEPARTURE
DEP - 127.12 MHz - HOUSTON DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
15R	151 ft 46 m	10,010 ft 3,051 m	152.07 150.33	CONCRETE	0 ft 0 m	407 ft 124 m
33L	151 ft 46 m	10,010 ft 3,051 m	332.08 330.33	CONCRETE	0 ft 0 m	407 ft 124 m
15L	151 ft 46 m	12,013 ft 3,662 m	152.08 150.33	CONCRETE	0 ft 0 m	413 ft 126 m
33R	151 ft 46 m	12,013 ft 3,662 m	332.09 330.34	CONCRETE	0 ft 0 m	413 ft 126 m
08L	151 ft 46 m	9,008 ft 2,746 m	89.94 88.20	CONCRETE	0 ft 0 m	387 ft 118 m
26R	151 ft 46 m	9,008 ft 2,746 m	269.96 268.21	CONCRETE	0 ft 0 m	387 ft 118 m
08R	151 ft 46 m	9,412 ft 2,869 m	89.96 88.21	CONCRETE	0 ft 0 m	384 ft 117 m
26L	151 ft 46 m	9,412 ft 2,869 m	269.97 268.22	CONCRETE	0 ft 0 m	384 ft 117 m
09	151 ft 46 m	10,009 ft 3,051 m	89.95 88.21	CONCRETE	0 ft 0 m	387 ft 118 m
27	151 ft 46 m	10,009 ft 3,051 m	269.97 268.22	CONCRETE	0 ft 0 m	387 ft 118 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
08L	DME	IBZU	111.55 MHz	18 nm 33 km	- -	-	90 ft 90 m
08R	DME	IIAH	109.70 MHz	18 nm 33 km	- -	-	109 ft 109 m
09	DME	IUYO	110.90 MHz	18 nm 33 km	- -	-	100 ft 100 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
26L	DME	IJYV	109.70 MHz	18 nm 33 km	– –	–	109 ft 109 m
26R	DME	IOND	111.55 MHz	18 nm 33 km	– –	–	84 ft 84 m
27	DME	IGHI	110.90 MHz	18 nm 33 km	– –	–	100 ft 100 m
08L	LOC-ILS	IBZU	111.55 MHz	18 nm 33 km	89.95 88.20	–	98 ft 98 m
08R	LOC-ILS	IIAH	109.70 MHz	18 nm 33 km	89.96 88.21	–	98 ft 98 m
09	LOC-ILS	IUYO	110.90 MHz	18 nm 33 km	89.96 88.21	–	98 ft 98 m
15R	LOC-ILS	ILKM	111.15 MHz	18 nm 33 km	152.08 150.33	–	98 ft 98 m
26L	LOC-ILS	IJYV	109.70 MHz	18 nm 33 km	269.96 268.21	–	98 ft 98 m
26R	LOC-ILS	IOND	111.55 MHz	18 nm 33 km	269.95 268.20	–	98 ft 98 m
27	LOC-ILS	IGHI	110.90 MHz	18 nm 33 km	269.96 268.21	–	98 ft 98 m
33R	LOC-ILS	ICDG	111.90 MHz	18 nm 33 km	332.09 330.34	–	98 ft 98 m
08L	GS	IBZU	111.55 MHz	10 nm 19 km	89.95 88.20	3.00	98 ft 98 m
08R	GS	IIAH	109.70 MHz	10 nm 19 km	89.96 88.21	3.00	98 ft 98 m
09	GS	IUYO	110.90 MHz	10 nm 19 km	89.96 88.21	3.00	98 ft 98 m
15R	GS	ILKM	111.15 MHz	10 nm 19 km	152.08 150.33	3.00	98 ft 98 m
26L	GS	IJYV	109.70 MHz	10 nm 19 km	269.96 268.21	3.00	98 ft 98 m
26R	GS	IOND	111.55 MHz	10 nm 19 km	269.95 268.20	3.00	98 ft 98 m
27	GS	IGHI	110.90 MHz	10 nm 19 km	269.96 268.21	3.00	98 ft 98 m
33R	GS	ICDG	111.90 MHz	10 nm 19 km	332.09 330.34	3.00	98 ft 98 m