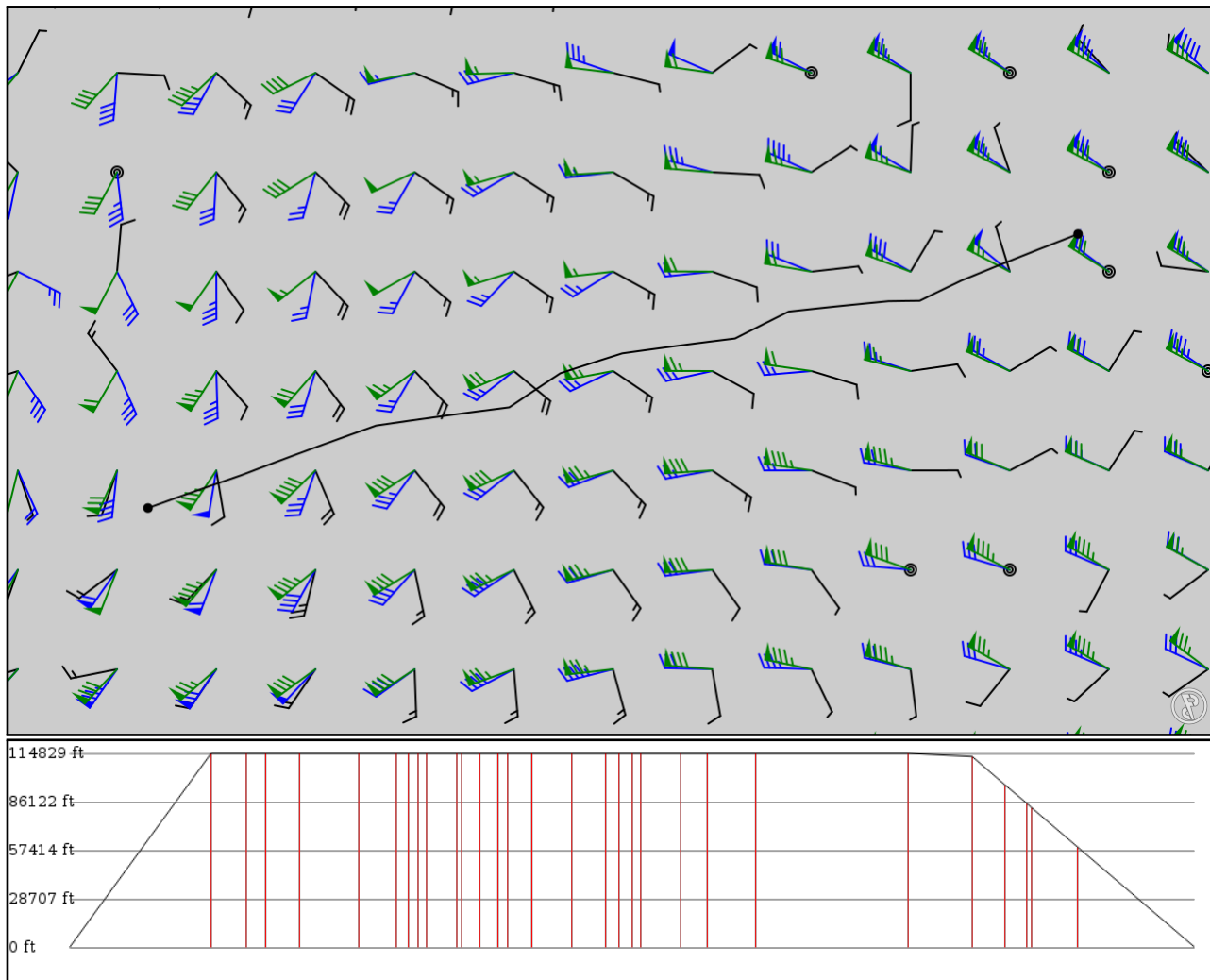


2024/05/10 1708Z

KGRB HILRO WITOL QUEST V398 UKN V138 FOD V100 SUX V219 OBH J10 LBF V80 AKO KAPA

816.06 nm / 1511.35 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
KGRB APT	-	44.48480 -88.12950	0 ft 0 m	-	Austin Straubel Intl
HILRO FIX	-	43.65170 -90.22490	35,000 ft 10,668 m	103	-
WITOL FIX	-	43.41540 -90.71570	35,000 ft 10,668 m	25	-
QUEST FIX	-	43.28790 -90.97490	35,000 ft 10,668 m	13	-
UKN VOR	V398 AWY-LO	43.28010 -91.53740	35,000 ft 10,668 m	24	WAUKON
FOYDE FIX	V138 AWY-LO	43.18430 -92.49930	35,000 ft 10,668 m	42	-
WOTVI FIX	V138 AWY-LO	43.11720 -93.12740	35,000 ft 10,668 m	27	-
MCW VOR	V138 AWY-LO	43.09480 -93.32990	35,000 ft 10,668 m	8	MASON CITY
KEFIG FIX	V138 AWY-LO	43.02950 -93.46190	35,000 ft 10,668 m	6	-
ZUTIG FIX	V138 AWY-LO	42.97350 -93.57480	35,000 ft 10,668 m	5	-
TICUV FIX	V138 AWY-LO	42.77160 -93.97810	35,000 ft 10,668 m	21	-
KADCO FIX	V138 AWY-LO	42.73390 -94.05280	35,000 ft 10,668 m	3	-
FOD VOR	V138 AWY-LO	42.61110 -94.29480	35,000 ft 10,668 m	12	FORT DODGE
BABYA FIX	V100 AWY-LO	42.57540 -94.58410	35,000 ft 10,668 m	12	-
MONKS FIX	V100 AWY-LO	42.55500 -94.74770	35,000 ft 10,668 m	7	-
NEMAH FIX	V100 AWY-LO	42.50480 -95.13960	35,000 ft 10,668 m	17	-
CUSHO FIX	V100 AWY-LO	42.42090 -95.77100	35,000 ft 10,668 m	28	-
SUX VOR	V100 AWY-LO	42.34450 -96.32360	35,000 ft 10,668 m	24	SIOUX CITY
DECGA FIX	V219 AWY-LO	42.27930 -96.53040	35,000 ft 10,668 m	9	-
GEGGE FIX	V219 AWY-LO	42.22030 -96.71610	35,000 ft 10,668 m	8	-
PENDE FIX	V219 AWY-LO	42.18070 -96.83970	35,000 ft 10,668 m	5	-
OFK VOR	V219 AWY-LO	41.98790 -97.43460	35,000 ft 10,668 m	28	NORFOLK
ERGUC FIX	V219 AWY-LO	41.77320 -97.76020	35,000 ft 10,668 m	19	-
OBH VOR	V219 AWY-LO	41.37570 -98.35360	35,000 ft 10,668 m	35	WOLBACH
LBF VOR	J10 AWY-HI	41.04870 -100.74700	35,000 ft 10,668 m	109	NORTH PLATTE
UYOGI FIX	V80 AWY-LO	40.71460 -101.68100	34,400 ft 10,485 m	46	-
HOLYO	V80	40.54230	29,300 ft	23	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-LO	-102.15200	8,931 m		
NACIK	V80	40.42880	26,000 ft	15	-
FIX	AWY-LO	-102.45700	7,925 m		
CITMU	V80	40.40310	25,200 ft	3	-
FIX	AWY-LO	-102.52600	7,681 m		
AKO	V80	40.15560	18,100 ft	33	AKRON
VOR	AWY-LO	-103.18000	5,517 m		
KAPA	-	39.57010	0 ft	84	Centennial
APT	-	-104.84800	0 m		

KGRB

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

Elevation: 695 ft / 212 m
Location: 44.484800 -88.129500
Magnetic Var: 4.271 W

METAR

KGRB 101553Z 10SM BKN032 OVC040 14/06 A2990 RMK A02 SLP127 T01440061

TAF

TAF AMD KGRB 101426Z 1014/1112 VRB05KT P6SM BKN050 FM101600 26006KT P6SM SCT050 FM102200 22009KT P6SM BKN080 FM110000 25010KT

Frequencies

REC - 124.10 MHz - ATIS	COM - 118.70 MHz - CTAF
CLD - 121.75 MHz - CLEARANCE DELIVERY	GND - 121.90 MHz - GREEN BAY GROUND
TWR - 118.70 MHz - GREEN BAY TOWER	APP - 119.40 MHz - GREEN BAY APPROACH
DEP - 126.55 MHz - GREEN BAY DEPARTURE	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
18	150 ft	8,708 ft	179.93	CONCRETE	499 ft	0 ft
	46 m	2,654 m	184.20		152 m	0 m
36	150 ft	8,708 ft	359.93	CONCRETE	0 ft	0 ft
	46 m	2,654 m	4.20		0 m	0 m
06	150 ft	7,707 ft	59.83	CONCRETE	0 ft	0 ft
	46 m	2,349 m	64.10		0 m	0 m
24	150 ft	7,707 ft	239.84	CONCRETE	0 ft	0 ft
	46 m	2,349 m	244.12		0 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
06	DME	IGRB	109.50 MHz	18 nm	-	-	698 ft
				33 km	-		698 m
06	LOC-ILS	IGRB	109.50 MHz	18 nm	59.84	-	695 ft
				33 km	64.11		695 m
36	LOC-ILS	ISGZ	109.90 MHz	18 nm	359.93	-	695 ft
				33 km	4.20		695 m
06	GS	IGRB	109.50 MHz	10 nm	59.84	3.00	695 ft
				19 km	64.11		695 m
36	GS	ISGZ	109.90 MHz	10 nm	359.93	3.00	695 ft
				19 km	4.20		695 m

KAPA

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

Elevation: 5,884 ft / 1,793 m
Location: 39.570100 -104.848000
Magnetic Var: 7.462 E

METAR

KAPA 101553Z 26005KT 10SM FEW017 SCT049 BKN060 09/M01 A3033 RMK A02 SLP255 T00941006

TAF

TAF AMD KAPA 101242Z 1013/1112 02005KT P6SM VCSH BKN015 BKN080 FM101600 04005KT P6SM VCSH FEW020 SCT035 BKN070 FM110000 03005KT P6SM VCSH FEW020 SCT035 BKN070

Frequencies

REC - 120.30 MHz - ATIS
CLD - 128.60 MHz - CLEARANCE DELIVERY
TWR - 118.90 MHz - CENTENNIAL TOWER
DEP - 132.75 MHz - DENVER DEPARTURE
COM - 122.95 MHz - UNICOM
GND - 121.80 MHz - CENTENNIAL GROUND
APP - 132.75 MHz - DENVER APPROACH

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
17L	100 ft	10,015 ft	177.97	ASPHALT	0 ft	200 ft
	30 m	3,053 m	170.50		0 m	61 m
35R	100 ft	10,015 ft	357.97	ASPHALT	610 ft	194 ft
	30 m	3,053 m	350.50		186 m	59 m
17R	75 ft	7,009 ft	177.98	ASPHALT	0 ft	151 ft
	23 m	2,137 m	170.52		0 m	46 m
35L	75 ft	7,009 ft	357.98	ASPHALT	0 ft	151 ft
	23 m	2,137 m	350.52		0 m	46 m
10	75 ft	4,791 ft	110.99	ASPHALT	400 ft	151 ft
	23 m	1,460 m	103.53		122 m	46 m
28	75 ft	4,791 ft	291.00	ASPHALT	171 ft	148 ft
	23 m	1,460 m	283.54		52 m	45 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
35R	DME	IAPA	111.30 MHz	18 nm	-	-	5,773 ft
				33 km	-		5,773 m
35R	LOC-ILS	IAPA	111.30 MHz	18 nm	357.97	-	5,884 ft
				33 km	350.51		5,884 m
35R	GS	IAPA	111.30 MHz	10 nm	357.97	3.00	5,884 ft
				19 km	350.51		5,884 m