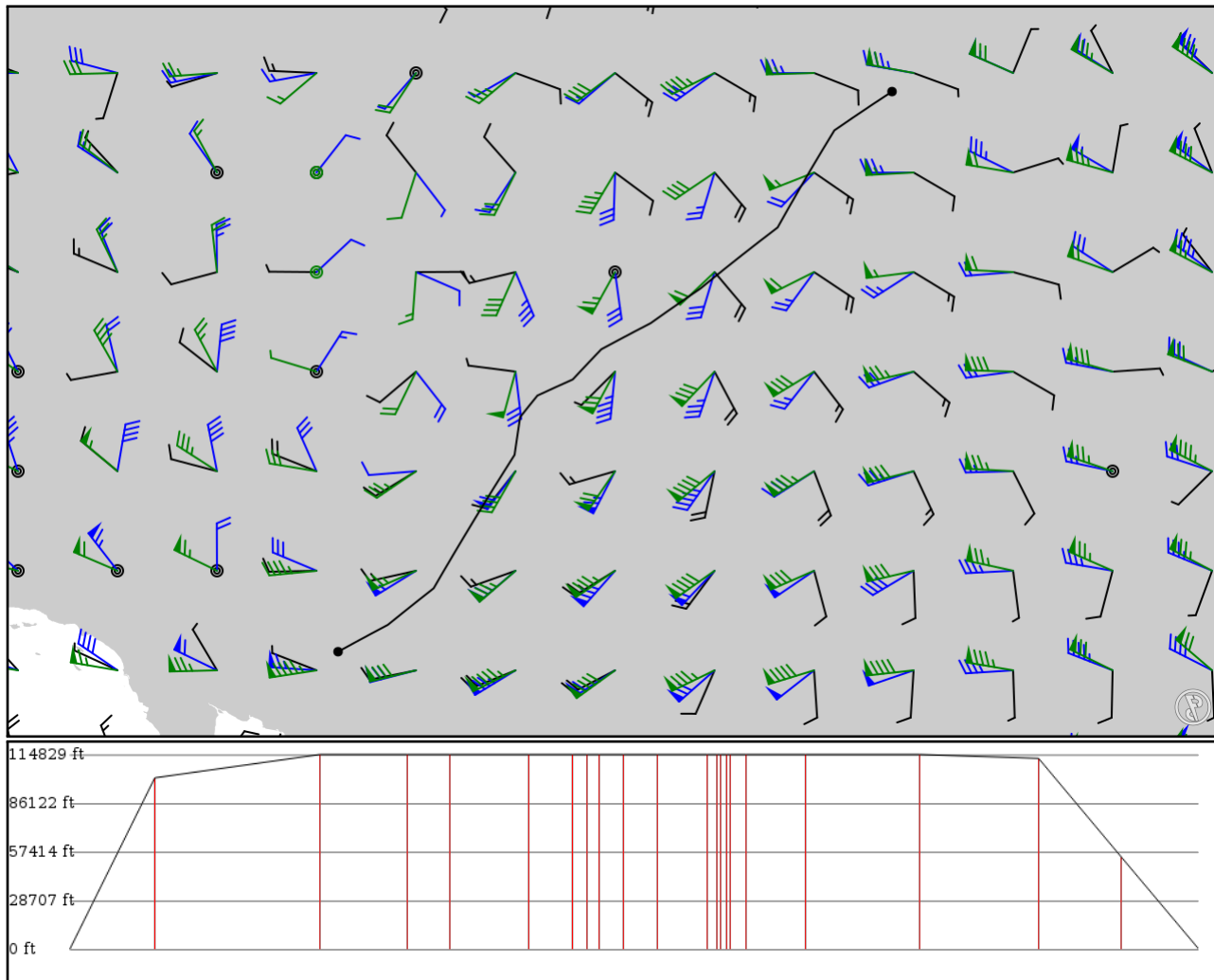


2024/06/05 1245Z

KGFK JMS **V561** PIR **T283** BFF **V81** CYS **V361** DBL **J206** HBU **J10** RSK **J161** ZUN **J102** BOLIC KIWA

1131.14 nm / 2094.88 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
KGFK APT	-	47.94640 -97.17170	0 ft 0 m	-	Grand Forks International
JMS VOR	-	46.93290 -98.67880	30,800 ft 9,388 m	86	JAMESTOWN
PIR VOR	V561 AWY-LO	44.39450 -100.16300	35,000 ft 10,668 m	164	PIERRE
WNED FIX	T283 AWY-LO	43.32060 -101.53900	35,000 ft 10,668 m	87	-
GRN NDB	T283 AWY-LO	42.80110 -102.17900	35,000 ft 10,668 m	41	GORDON
BFF VOR	T283 AWY-LO	41.89420 -103.48200	35,000 ft 10,668 m	79	SCOTTSBLUFF
ALBIN FIX	V81 AWY-LO	41.46780 -104.29400	35,000 ft 10,668 m	44	-
VIDEE FIX	V81 AWY-LO	41.33690 -104.53900	35,000 ft 10,668 m	13	-
CYS VOR	V81 AWY-LO	41.21100 -104.77300	35,000 ft 10,668 m	12	CHEYENNE
BARGR FIX	V361 AWY-LO	40.88640 -105.08300	35,000 ft 10,668 m	24	-
ALLAN FIX	V361 AWY-LO	40.42300 -105.51900	35,000 ft 10,668 m	34	-
RLG VOR	V361 AWY-LO	40.00260 -106.44200	35,000 ft 10,668 m	49	KREMMLING
FOTTY FIX	V361 AWY-LO	39.86100 -106.55700	35,000 ft 10,668 m	10	-
KIMBL FIX	V361 AWY-LO	39.80730 -106.60000	35,000 ft 10,668 m	3	-
RRIVR FIX	V361 AWY-LO	39.71930 -106.67100	35,000 ft 10,668 m	6	-
VAILE FIX	V361 AWY-LO	39.67290 -106.70800	35,000 ft 10,668 m	3	-
DBL VOR	V361 AWY-LO	39.43930 -106.89500	35,000 ft 10,668 m	16	RED TABLE (EAGLE)
HBU VOR	J206 AWY-HI	38.45210 -107.04000	35,000 ft 10,668 m	59	BLUE MESA (GUNNISON)
RSK VOR	J10 AWY-HI	36.74840 -108.09900	35,000 ft 10,668 m	114	RATTLESNAKE (FARMINGTON)
ZUN VOR	J161 AWY-HI	34.96580 -109.15500	34,300 ft 10,455 m	118	ZUNI
BOLIC FIX	J102 AWY-HI	34.01120 -110.35200	16,600 ft 5,060 m	82	-
KIWA APT	-	33.30780 -111.65500	0 ft 0 m	77	Phoenix-Mesa Gateway

## KGFK

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

Elevation: 844 ft / 257 m  
Location: 47.946400 -97.171700  
Magnetic Var: 2.639 E

## METAR

KGFK 051153Z 25011KT 10SM FEW120 BKN190 16/08 A2939 RMK AO2 SLP950 70007 T01610083 10161 20111 55008

## TAF

TAF KGFK 051120Z 0512/0612 22010KT P6SM BKN110 FM051500 26015G24KT P6SM SCT100 FM051800 28020G30KT P6SM VCSH SCT0

## Frequencies

COM - 118.40 MHz - CTAF	REC - 119.40 MHz - ATIS
GND - 124.57 MHz - GRAND FORKS GROUND	TWR - 118.40 MHz - GRAND FORKS TOWER
TWR - 120.55 MHz - GRAND FORKS TOWER	APP - 118.10 MHz - GRAND FORKS APPROACH
DEP - 118.10 MHz - GRAND FORKS DEPARTURE	CLD - 135.72 MHz - CLEARANCE DELIVERY

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
17R	150 ft	7,353 ft	180.03	ASPHALT	0 ft	197 ft
	46 m	2,241 m	177.39		0 m	60 m
35L	150 ft	7,353 ft	0.03	ASPHALT	0 ft	200 ft
	46 m	2,241 m	357.39		0 m	61 m
17L	75 ft	3,901 ft	180.05	CONCRETE	0 ft	0 ft
	23 m	1,189 m	177.41		0 m	0 m
35R	75 ft	3,901 ft	0.05	CONCRETE	0 ft	0 ft
	23 m	1,189 m	357.41		0 m	0 m
09R	60 ft	3,290 ft	90.02	CONCRETE	0 ft	0 ft
	18 m	1,003 m	87.38		0 m	0 m
27L	60 ft	3,290 ft	270.03	CONCRETE	0 ft	0 ft
	18 m	1,003 m	267.39		0 m	0 m
09L	100 ft	4,196 ft	89.99	CONCRETE	0 ft	0 ft
	30 m	1,279 m	87.35		0 m	0 m
27R	100 ft	4,196 ft	270.01	CONCRETE	0 ft	0 ft
	30 m	1,279 m	267.37		0 m	0 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
35L	DME	IGFK	109.10 MHz	18 nm	-	-	856 ft
				33 km	-		856 m
35L	LOC-ILS	IGFK	109.10 MHz	18 nm	0.03	-	844 ft
				33 km	357.39		844 m
35L	GS	IGFK	109.10 MHz	10 nm	0.03	2.76	844 ft
				19 km	357.39		844 m
17R	GS	IGFK	114.30 MHz	10 nm	180.03	3.00	844 ft
				19 km	177.39		844 m

## KIWA

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

Elevation: 1,382 ft / 421 m  
Location: 33.307800 -111.655000  
Magnetic Var: 9.583 E

## METAR

KIWA 051155Z AUTO 12006KT 10SM CLR 22/01 A2984 RMK A02 T02210015 10288 20220

## TAF

KIWA 051134Z 0512/0612 12006KT P6SM SKC FM051800 28007KT P6SM SKC FM060800 12006KT P6SM FEW250

## Frequencies

COM - 120.60 MHz - CTAF	REC - 133.50 MHz - ATIS
REC - 270.27 MHz - ATIS	CLD - 135.05 MHz - CLNC DEL
GND - 128.25 MHz -	GND - 275.80 MHz -
TWR - 120.60 MHz -	TWR - 289.40 MHz -
APP - 124.90 MHz - DEP/APP	

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
12R	151 ft	10,405 ft	135.70	CONCRETE	0 ft	994 ft
	46 m	3,171 m	126.12		0 m	303 m
30L	151 ft	10,405 ft	315.71	CONCRETE	0 ft	1,004 ft
	46 m	3,171 m	306.13		0 m	306 m
12C	151 ft	10,205 ft	135.69	ASPHALT	0 ft	1,001 ft
	46 m	3,111 m	126.11		0 m	305 m
30C	151 ft	10,205 ft	315.71	ASPHALT	0 ft	1,007 ft
	46 m	3,111 m	306.13		0 m	307 m
12L	151 ft	9,307 ft	135.72	CONCRETE	0 ft	400 ft
	46 m	2,837 m	126.13		0 m	122 m
30R	151 ft	9,307 ft	315.73	CONCRETE	0 ft	397 ft
	46 m	2,837 m	306.14		0 m	121 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
30C	LOC-ILS	IIWA	110.15 MHz	18 nm	318.06	-	1,382 ft
				33 km	308.48		1,382 m
30C	GS	IIWA	110.15 MHz	10 nm	318.88	3.00	1,382 ft
				19 km	309.29		1,382 m