

KGRB

Austin Straubel Intl

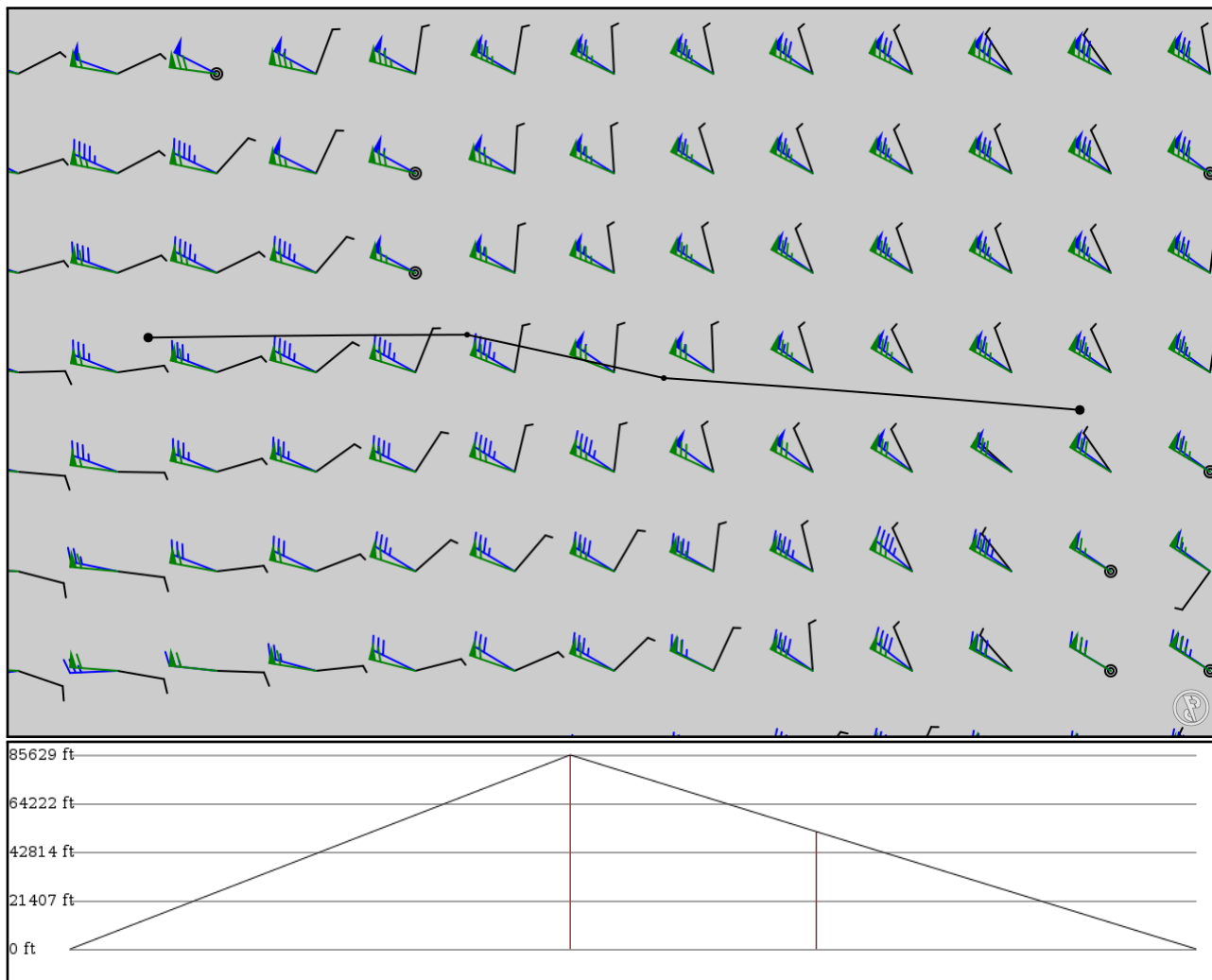
KMSP

Minneapolis St Paul Intl

2024/05/12 1809Z

KGRB BELGO V55 EAU KMSP

220.02 nm / 407.48 km



Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 35000ft
- Cruise Speed: 175kts
- 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 | - | 44.48676 -88.12923 | 0 ft 0 m | - | Austin Straubel Intl |
| BELGO FIX | - | 44.66101 -90.40355 | 26,100 ft 7,955 m | 97 | - |
| EAU DME | V55 AWY-LO | 44.89767 -91.47854 | 15,800 ft 4,816 m | 47 | EAU CLAIRE VORTAC |
| KMSP APT | - | 44.88195 -93.22201 | 0 ft 0 m | 74 | Minneapolis St Paul Intl |

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 121653Z 20010KT 10SM CLR 21/09 A2973 RMK A02 SLP069 T02110089

TAF

TAF KGRB 121720Z 1218/1318 21012G20KT P6SM SKC FM130000 22010G17KT P6SM BKN060 TEMPO 1300/1303 4SM TSRA BKN040CB

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 |

KMSP

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

Elevation: 841 ft / 256 m
Location: 44.881900 -93.222000
Magnetic Var: 0.277 W

METAR

KMSP 121653Z 24013G21KT 10SM FEW200 28/07 A2963 RMK A02 SLP030 T02780067

TAF

KMSP 121723Z 1218/1324 26012G21KT P6SM FEW250 FM122100 30012G20KT P6SM SCT250 FM122300 32009KT 6SM FU SCT250 FM13

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 |