

KRDU

Raleigh Durham Intl

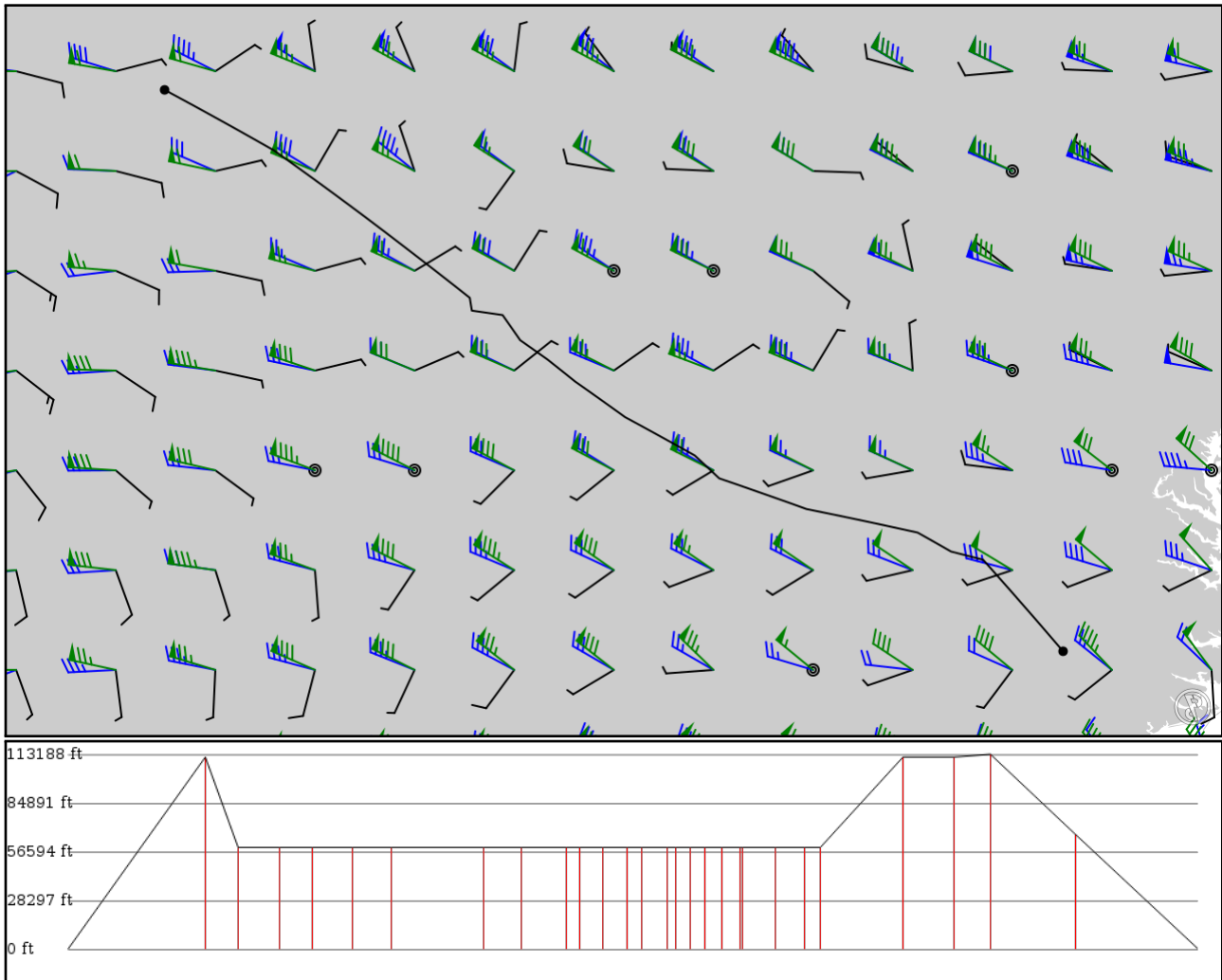
KMSP

Minneapolis St Paul Intl

2024/05/23 0610Z

KRDU ROA **V258** BKW **V478** FLM **V517** CVG **V97** SHB **V51** BVT **V399** YIXCI **V128** KENLA **V24** EON **V171** JOT **J30**
ODI KMSP

880.81 nm / 1631.26 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
KRDU APT	-	35.87586 -78.78560	0 ft 0 m	-	Raleigh Durham Intl
ROA VOR	-	37.34347 -80.07039	34,000 ft 10,363 m	107	ROANOKE VORTAC
ZOOMS FIX	V258 AWY-LO	37.47562 -80.58519	18,000 ft 5,486 m	25	-
BKW VOR	V258 AWY-LO	37.78031 -81.12344	18,000 ft 5,486 m	31	BECKLEY VORTAC
BIVDY FIX	V478 AWY-LO	37.89469 -81.64894	18,000 ft 5,486 m	25	-
CELLI FIX	V478 AWY-LO	38.02826 -82.27828	18,000 ft 5,486 m	30	-
ECB VOR	V478 AWY-LO	38.15836 -82.91006	18,000 ft 5,486 m	30	NEWCOMBE VORTAC
FLM VOR	V478 AWY-LO	38.64950 -84.31064	18,000 ft 5,486 m	72	FALMOUTH VOR-DME
CVG VOR	V517 AWY-LO	39.01597 -84.70333	18,000 ft 5,486 m	28	CINCINNATI VORTAC
MILAN FIX	V97 AWY-LO	39.35611 -85.31684	18,000 ft 5,486 m	35	-
TARNE FIX	V97 AWY-LO	39.45674 -85.50068	18,000 ft 5,486 m	10	-
SHB VOR	V97 AWY-LO	39.63256 -85.82431	18,000 ft 5,486 m	18	SHELBYVILLE VORTAC
ZAVNE FIX	V51 AWY-LO	39.84233 -86.11665	18,000 ft 5,486 m	18	-
ZIPPY FIX	V51 AWY-LO	39.97259 -86.29964	18,000 ft 5,486 m	11	-
AZHUP FIX	V51 AWY-LO	40.20164 -86.62398	18,000 ft 5,486 m	20	-
OCKEL FIX	V51 AWY-LO	40.27859 -86.72006	18,000 ft 5,486 m	6	-
ZOFRI FIX	V51 AWY-LO	40.41200 -86.88744	18,000 ft 5,486 m	11	-
BVT VOR	V51 AWY-LO	40.55611 -87.06933	18,000 ft 5,486 m	11	BOILER VORTAC
ERNEY FIX	V399 AWY-LO	40.70379 -87.27769	18,000 ft 5,486 m	12	-
YIXCI FIX	V399 AWY-LO	40.86647 -87.50891	18,000 ft 5,486 m	14	-
KENLA FIX	V128 AWY-LO	40.89629 -87.52964	18,000 ft 5,486 m	2	-
EON VOR	V24 AWY-LO	41.26964 -87.79106	18,000 ft 5,486 m	25	PEOTONE VORTAC
MEDAN FIX	V171 AWY-LO	41.34098 -88.28523	18,000 ft 5,486 m	22	-
JOT VOR	V171 AWY-LO	41.54642 -88.31842	18,000 ft 5,486 m	12	JOLIET VORTAC
COTON FIX	J30 AWY-HI	42.31992 -89.31223	34,000 ft 10,363 m	64	-
BRIBE FIX	J30 AWY-HI	42.79833 -89.94036	34,000 ft 10,363 m	39	-
SIBER	J30	43.13468	34,500 ft	28	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	-90.39268	10,516 m		
ODI	J30	43.91233	20,300 ft	66	NODINE VORTAC
VOR	AWY-HI	-91.46753	6,187 m		
KMSP	-	44.88195	0 ft	95	Minneapolis St Paul Intl
APT	-	-93.22201	0 m		

KRDU

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

Elevation: 435 ft / 133 m
Location: 35.875900 -78.785600
Magnetic Var: 9.443 W

METAR

KRDU 230551Z 23004KT 10SM FEW250 22/16 A2999 RMK AO2 SLP149 T02220161 10272 20222 58003

TAF

KRDU 230527Z 2306/2406 22005KT P6SM SCT250 FM232100 26008KT P6SM VCTS SCT050CB BKN150 TEMPO 2322/2401 30010G20KT

Frequencies

REC - 123.80 MHz - ATIS	CLD - 120.10 MHz - CLEARANCE DELIVERY
GND - 121.70 MHz - RALEIGH GROUND	GND - 121.90 MHz - RALEIGH GROUND
GND - 130.17 MHz - RAMP CONTROL TERMINAL 2	TWR - 119.30 MHz - RALEIGH TOWER
TWR - 127.45 MHz - RALEIGH TOWER	APP - 127.67 MHz - RALEIGH APPROACH
DEP - 132.35 MHz - RALEIGH DEPARTURE	DEP - 125.30 MHz - RALEIGH DEPARTURE
COM - 122.95 MHz - RALEIGH UNICOM	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
14	98 ft	3,573 ft	135.28	ASPHALT	0 ft	0 ft
	30 m	1,089 m	144.72		0 m	0 m
32	98 ft	3,573 ft	315.28	ASPHALT	0 ft	0 ft
	30 m	1,089 m	324.72		0 m	0 m
05R	151 ft	7,507 ft	45.02	ASPHALT	0 ft	197 ft
	46 m	2,288 m	54.46		0 m	60 m
23L	151 ft	7,507 ft	225.03	ASPHALT	0 ft	197 ft
	46 m	2,288 m	234.47		0 m	60 m
05L	151 ft	10,010 ft	45.02	CONCRETE	0 ft	197 ft
	46 m	3,051 m	54.47		0 m	60 m
23R	151 ft	10,010 ft	225.04	CONCRETE	0 ft	194 ft
	46 m	3,051 m	234.48		0 m	59 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
05L	DME	IGKK	109.10 MHz	18 nm	-	-	411 ft
				33 km	-		411 m
23R	DME	IDMP	111.70 MHz	18 nm	-	-	435 ft
				33 km	-		435 m
05L	LOC-ILS	IGKK	109.10 MHz	18 nm	45.03	-	435 ft
				33 km	54.47		435 m
05R	LOC-ILS	IRDU	109.50 MHz	18 nm	45.03	-	435 ft
				33 km	54.47		435 m
23L	LOC-ILS	ILEI	108.50 MHz	18 nm	225.03	-	435 ft
				33 km	234.47		435 m
23R	LOC-ILS	IDMP	111.70 MHz	18 nm	225.03	-	435 ft
				33 km	234.47		435 m
05L	GS	IGKK	109.10 MHz	10 nm	45.03	3.00	435 ft
				19 km	54.47		435 m
05R	GS	IRDU	109.50 MHz	10 nm	45.03	3.00	435 ft
				19 km	54.47		435 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
23L	GS	ILEI	108.50 MHz	10 nm	225.03	3.00	435 ft
				19 km	234.47		435 m
23R	GS	IDMP	111.70 MHz	10 nm	225.03	3.00	435 ft
				19 km	234.47		435 m

KMSP

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

Elevation: 841 ft / 256 m
Location: 44.881900 -93.222000
Magnetic Var: 0.279 W

METAR

KMSP 230553Z 23005KT 10SM CLR 15/08 A2982 RMK A02 SLP095 T01500078 10211 20150 402220117 51009

TAF

KMSP 230539Z 2306/2412 22005KT P6SM FEW150 FM231600 20007KT P6SM SCT120 FM240800 13008KT P6SM BKN080 FM241000 130

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	169.84		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	121.70		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