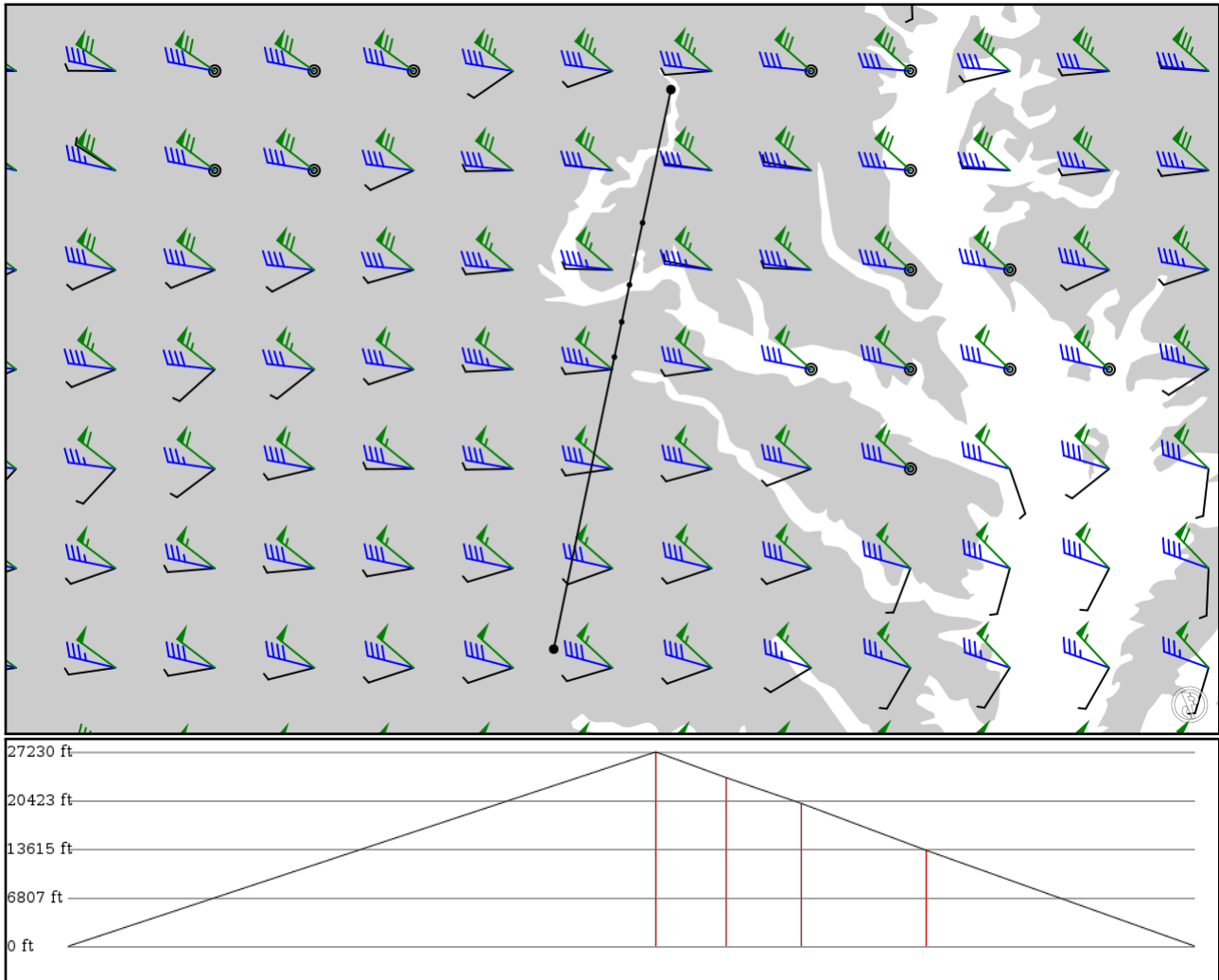


2024/05/03 2133Z

KRIC GRUBY **V376** IRONS KDCA

82.01 nm / 151.88 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: no
- Use PACOTS: no
- Use low airways: yes
- Use high airways: no

Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
KRIC APT	-	37.50473 -77.32011	0 ft 0 m	-	Richmond Intl
GRUBY FIX	-	38.20816 -77.17398	8,300 ft 2,530 m	42	-
OJAAY FIX	V376 AWY-LO	38.29263 -77.15629	7,200 ft 2,195 m	5	-
SABBI FIX	V376 AWY-LO	38.38189 -77.13756	6,100 ft 1,859 m	5	-
IRONS FIX	V376 AWY-LO	38.53110 -77.10609	4,100 ft 1,250 m	9	-
KDCA APT	-	38.85205 -77.03770	0 ft 0 m	19	Washington National

KRIC

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

Elevation: 168 ft / 51 m
Location: 37.504700 -77.320200
Magnetic Var: 10.508 W

METAR

KRIC 032054Z 06012G20KT 10SM FEW035 FEW170 BKN300 23/15 A3004 RMK AO2 SLP176 T02280150 53011

TAF

TAF AMD KRIC 031941Z 0320/0418 08014G21KT P6SM FEW040 BKN200 FM040000 09011G18KT P6SM BKN025 FM040200 09009KT P6S

Frequencies

REC - 119.15 MHz - ATIS	COM - 122.95 MHz - RICHMOND UNICOM
GND - 121.90 MHz - RICHMOND GROUND	TWR - 121.10 MHz - RICHMOND TOWER
CLD - 127.55 MHz - CLEARANCE DELIVERY	DEP - 126.40 MHz - POTOMAC DEPARTURE
DEP - 126.75 MHz - POTOMAC DEPARTURE	APP - 118.20 MHz - POTOMAC APPROACH
APP - 126.40 MHz - POTOMAC APPROACH	APP - 126.75 MHz - POTOMAC APPROACH

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
16	150 ft	9,012 ft	147.57	ASPHALT	0 ft	1,004 ft
	46 m	2,747 m	158.08		0 m	306 m
34	150 ft	9,012 ft	327.58	ASPHALT	0 ft	994 ft
	46 m	2,747 m	338.09		0 m	303 m
02	150 ft	6,620 ft	13.41	ASPHALT	0 ft	200 ft
	46 m	2,018 m	23.92		0 m	61 m
20	150 ft	6,620 ft	193.41	ASPHALT	0 ft	276 ft
	46 m	2,018 m	203.92		0 m	84 m
07	100 ft	5,180 ft	57.36	ASPHALT	0 ft	190 ft
	30 m	1,579 m	67.87		0 m	58 m
25	100 ft	5,180 ft	237.37	ASPHALT	0 ft	0 ft
	30 m	1,579 m	247.88		0 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
02	LOC-ILS	IEZD	110.90 MHz	18 nm	13.41	-	168 ft
				33 km	23.92		168 m
16	LOC-ILS	IRGJ	110.70 MHz	18 nm	147.58	-	168 ft
				33 km	158.09		168 m
34	LOC-ILS	IBNE	110.70 MHz	18 nm	327.58	-	168 ft
				33 km	338.09		168 m
02	GS	IEZD	110.90 MHz	10 nm	13.41	3.00	168 ft
				19 km	23.92		168 m
16	GS	IRGJ	110.70 MHz	10 nm	147.58	3.00	168 ft
				19 km	158.09		168 m
34	GS	IBNE	110.70 MHz	10 nm	327.58	3.00	168 ft
				19 km	338.09		168 m

KDCA

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

Elevation: 15 ft / 5 m
Location: 38.851400 -77.037700
Magnetic Var: 10.879 W

METAR

KDCA 032052Z 10011G20KT 10SM FEW060 BKN250 21/12 A3009 RMK A02 SLP188 T02060122 53004

TAF

KDCA 032044Z 0321/0424 10010G21KT P6SM FEW050 BKN250 FM040200 10008KT P6SM SCT010 BKN060 FM040400 10008KT P6SM VC

Frequencies

REC - 132.65 MHz - ATIS	COM - 122.95 MHz - UNICOM
CLD - 128.25 MHz - CLEARANCE DELIVERY	GND - 121.70 MHz - WASHINGTON GROUND
TWR - 119.10 MHz - WASHINGTON TOWER	TWR - 134.35 MHz - WASHINGTON TOWER
APP - 119.85 MHz - POTOMAC APPROACH	APP - 124.20 MHz - POTOMAC APPROACH
APP - 124.70 MHz - POTOMAC APPROACH	DEP - 118.95 MHz - POTOMAC DEPARTURE
DEP - 125.65 MHz - POTOMAC DEPARTURE	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
01	151 ft	7,183 ft	355.53	ASPHALT	0 ft	200 ft
	46 m	2,190 m	6.41		0 m	61 m
19	151 ft	7,183 ft	175.53	ASPHALT	0 ft	197 ft
	46 m	2,190 m	186.41		0 m	60 m
15	151 ft	5,205 ft	142.76	ASPHALT	0 ft	413 ft
	46 m	1,587 m	153.64		0 m	126 m
33	151 ft	5,205 ft	322.77	ASPHALT	0 ft	180 ft
	46 m	1,587 m	333.65		0 m	55 m
04	151 ft	5,009 ft	25.45	ASPHALT	203 ft	0 ft
	46 m	1,527 m	36.33		62 m	0 m
22	151 ft	5,009 ft	205.46	ASPHALT	0 ft	381 ft
	46 m	1,527 m	216.34		0 m	116 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
01	DME	IDCA	109.90 MHz	18 nm	-	-	15 ft
				33 km	-		15 m
19	DME	IVWH	108.50 MHz	18 nm	-	-	15 ft
				33 km	-		15 m
01	LOC-ILS	IDCA	109.90 MHz	18 nm	355.51	-	15 ft
				33 km	6.39		15 m
01	GS	IDCA	109.90 MHz	10 nm	355.51	3.00	15 ft
				19 km	6.39		15 m