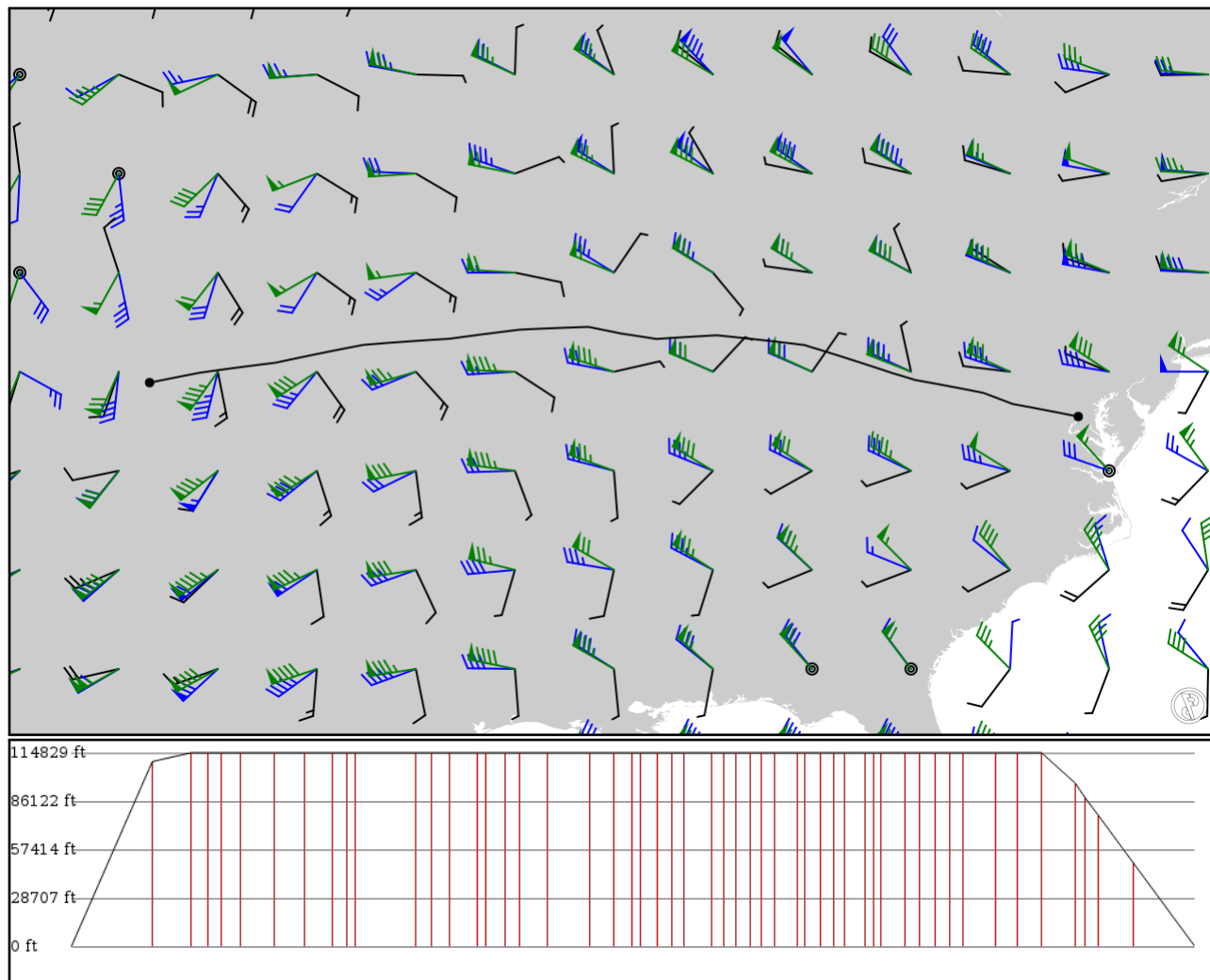


2024/06/06 2226Z

KDCA ESL V144 MAPPS V156 MZV V8 IOW V6 NASAL V294 DSM V6 GRI V8 AKO KDEN

1296.06 nm / 2400.30 km



Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 10000ft
- Cruise Speed: 420kts
- Descent Rate: 1500ft/min
- Descent Speed: 250kts

Options:

- Use NATs: yes
- Use PACOTS: yes
- Use low airways: yes
- Use high airways: no

Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
KDCA APT	-	38.85205 -77.03770	0 ft 0 m	-	Washington National
ESL VOR	-	39.22550 -78.98950	33,400 ft 10,180 m	93	KESSEL VOR-DME
MGW VOR	V144 AWY-LO	39.55669 -79.86039	35,000 ft 10,668 m	45	MORGANTOWN VORTAC
ABDAL FIX	V144 AWY-LO	39.63864 -80.27658	35,000 ft 10,668 m	19	-
BURGS FIX	V144 AWY-LO	39.69852 -80.58639	35,000 ft 10,668 m	14	-
BEALL FIX	V144 AWY-LO	39.78515 -81.04320	35,000 ft 10,668 m	21	-
ZZV VOR	V144 AWY-LO	39.94086 -81.89261	35,000 ft 10,668 m	40	ZANESVILLE VOR-DME
APE VOR	V144 AWY-LO	40.15106 -82.58831	35,000 ft 10,668 m	34	APPLETON VORTAC
GUNNE FIX	V144 AWY-LO	40.36376 -83.23287	35,000 ft 10,668 m	32	-
ZEDIN FIX	V144 AWY-LO	40.46881 -83.55686	35,000 ft 10,668 m	16	-
BUZZI FIX	V144 AWY-LO	40.53441 -83.76099	35,000 ft 10,668 m	10	-
FWA VOR	V144 AWY-LO	40.97907 -85.18806	35,000 ft 10,668 m	70	-
TELEY FIX	V144 AWY-LO	41.02531 -85.56800	35,000 ft 10,668 m	17	-
CLEFT FIX	V144 AWY-LO	41.08110 -86.04147	35,000 ft 10,668 m	21	-
DENAM FIX	V144 AWY-LO	41.15962 -86.73926	35,000 ft 10,668 m	31	-
MAPPS FIX	V144 AWY-LO	41.18165 -86.94240	35,000 ft 10,668 m	9	-
LUCIT FIX	V156 AWY-LO	41.23234 -87.42372	35,000 ft 10,668 m	21	-
EON VOR	V156 AWY-LO	41.26964 -87.79106	35,000 ft 10,668 m	16	PEOTONE VORTAC
MOTIF FIX	V156 AWY-LO	41.22959 -88.50099	35,000 ft 10,668 m	32	-
BDF VOR	V156 AWY-LO	41.15972 -89.58786	35,000 ft 10,668 m	49	BRADFORD VORTAC
JPAUL FIX	V156 AWY-LO	41.25088 -90.17298	35,000 ft 10,668 m	26	-
MZV VOR	V156 AWY-LO	41.32092 -90.63822	35,000 ft 10,668 m	21	MOLINE VORTAC
BUFAL FIX	V8 AWY-LO	41.36525 -90.85178	35,000 ft 10,668 m	9	-
CHOLS FIX	V8 AWY-LO	41.45207 -91.27871	35,000 ft 10,668 m	19	-
IOW DME	V8 AWY-LO	41.51896 -91.61325	35,000 ft 10,668 m	15	IOWA CITY VORTAC
WELMA FIX	V6 AWY-LO	41.50858 -91.93020	35,000 ft 10,668 m	14	-
NASAL	V6	41.48212	35,000 ft	32	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-LO	-92.64099	10,668 m		
SINGR	V294	41.46856	35,000 ft	14	-
FIX	AWY-LO	-92.96558	10,668 m		
PROPS	V294	41.45596	35,000 ft	13	-
FIX	AWY-LO	-93.25900	10,668 m		
DSM	V294	41.43761	35,000 ft	17	DES MOINES VORTAC
VOR	AWY-LO	-93.64856	10,668 m		
MIDLE	V6	41.40577	35,000 ft	11	-
FIX	AWY-LO	-93.91128	10,668 m		
BRIDJ	V6	41.36482	35,000 ft	14	-
FIX	AWY-LO	-94.23894	10,668 m		
LYMAN	V6	41.28980	35,000 ft	26	-
FIX	AWY-LO	-94.82832	10,668 m		
PSFIC	V6	41.26732	35,000 ft	7	-
FIX	AWY-LO	-94.99785	10,668 m		
EYNOR	V6	41.21496	35,000 ft	17	-
FIX	AWY-LO	-95.38920	10,668 m		
OVR	V6	41.16717	35,000 ft	15	OMAHA VORTAC
VOR	AWY-LO	-95.73686	10,668 m		
GRETT	V6	41.14983	35,000 ft	12	-
FIX	AWY-LO	-96.02265	10,668 m		
YUTAN	V6	41.11733	35,000 ft	22	-
FIX	AWY-LO	-96.52706	10,668 m		
HUSKR	V6	41.10165	35,000 ft	10	-
FIX	AWY-LO	-96.75846	10,668 m		
DWELL	V6	41.08979	35,000 ft	7	-
FIX	AWY-LO	-96.92950	10,668 m		
ITBEW	V6	41.04662	35,000 ft	27	-
FIX	AWY-LO	-97.53075	10,668 m		
GRASI	V6	41.01720	35,000 ft	16	-
FIX	AWY-LO	-97.90345	10,668 m		
GRI	V6	40.98403	35,000 ft	18	GRAND ISLAND VORTAC
VOR	AWY-LO	-98.31478	10,668 m		
ADRUM	V8	40.91797	35,000 ft	16	-
FIX	AWY-LO	-98.65892	10,668 m		
POOLS	V8	40.85032	35,000 ft	16	-
FIX	AWY-LO	-99.00511	10,668 m		
TOKKU	V8	40.69244	35,000 ft	36	-
FIX	AWY-LO	-99.79114	10,668 m		
FIMER	V8	40.58050	35,000 ft	25	-
FIX	AWY-LO	-100.33049	10,668 m		
HCT	V8	40.45407	35,000 ft	28	HAYES CENTER VORTAC
DME	AWY-LO	-100.92357	10,668 m		
ATCAY	V8	40.35093	29,500 ft	38	-
FIX	AWY-LO	-101.74386	8,992 m		
ASHBY	V8	40.31724	26,900 ft	11	-
FIX	AWY-LO	-102.00151	8,199 m		
OGLIE	V8	40.27433	23,700 ft	14	-
FIX	AWY-LO	-102.32339	7,224 m		
AKO	V8	40.15556	15,100 ft	39	AKRON VOR-DME
VOR	AWY-LO	-103.17972	4,602 m		
KDEN	-	39.86098	0 ft	70	Denver Intl
APT	-	-104.67189	0 m		

KDCA

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

Elevation: 15 ft / 5 m
Location: 38.851400 -77.037700
Magnetic Var: 10.880 W

METAR

KDCA 062152Z 22015G22KT 10SM SCT035CB SCT120 BKN150 BKN250 29/21 A2953 RMK A02 SLP000 CB VC N-NE MOV SE T02940211

TAF

TAF AMD KDCA 062120Z 0621/0724 20013G20KT P6SM FEW050 SCT110 BKN150 FM062300 24008G16KT P6SM VCTS BKN050CB FM0701

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

KDEN

Region: UNITED STATES
Timezone: AMERICA/DENVER
Runways: 6

Elevation: 5,429 ft / 1,655 m
Location: 39.861000 -104.672000
Magnetic Var: 7.386 E

METAR

KDEN 062153Z 07007KT 10SM FEW110 FEW150 31/06 A3010 RMK A02 SLP116 T03060056

TAF

KDEN 062055Z 0621/0724 08007KT P6SM FEW130 FM070100 13009KT P6SM FEW080 SCT130 FM070600 19013KT P6SM FEW120 FM071

Frequencies

REC - 134.02 MHz - D-ATIS	COM - 122.95 MHz - UNICOM
CLD - 118.75 MHz - CLEARANCE DELIVERY	GND - 121.85 MHz - DENVER GROUND
GND - 127.50 MHz - DENVER GROUND	TWR - 132.35 MHz - DENVER TOWER
TWR - 133.30 MHz - DENVER TOWER	TWR - 128.75 MHz - DENVER TOWER
TWR - 135.30 MHz - DENVER TOWER	APP - 119.30 MHz - DENVER APPROACH
APP - 120.35 MHz - DENVER APPROACH	DEP - 126.10 MHz - DENVER DEPARTURE
DEP - 127.05 MHz - DENVER DEPARTURE	DEP - 128.25 MHz - DENVER DEPARTURE
DEP - 128.45 MHz - DENVER DEPARTURE	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
16R	200 ft	16,016 ft	180.50	CONCRETE	0 ft	410 ft
	61 m	4,882 m	173.11		0 m	125 m
34L	200 ft	16,016 ft	0.50	CONCRETE	0 ft	410 ft
	61 m	4,882 m	353.11		0 m	125 m
16L	151 ft	12,013 ft	180.51	CONCRETE	0 ft	413 ft
	46 m	3,662 m	173.13		0 m	126 m
34R	151 ft	12,013 ft	0.51	CONCRETE	0 ft	394 ft
	46 m	3,662 m	353.12		0 m	120 m
17R	151 ft	12,013 ft	180.53	CONCRETE	0 ft	413 ft
	46 m	3,662 m	173.14		0 m	126 m
35L	151 ft	12,013 ft	0.53	CONCRETE	0 ft	400 ft
	46 m	3,662 m	353.14		0 m	122 m
17L	151 ft	12,013 ft	180.54	CONCRETE	0 ft	404 ft
	46 m	3,662 m	173.16		0 m	123 m
35R	151 ft	12,013 ft	0.54	CONCRETE	0 ft	400 ft
	46 m	3,662 m	353.16		0 m	122 m
07	151 ft	12,013 ft	90.50	CONCRETE	0 ft	377 ft
	46 m	3,662 m	83.11		0 m	115 m
25	151 ft	12,013 ft	270.52	CONCRETE	0 ft	374 ft
	46 m	3,662 m	263.14		0 m	114 m
08	151 ft	12,013 ft	90.54	CONCRETE	0 ft	367 ft
	46 m	3,662 m	83.15		0 m	112 m
26	151 ft	12,013 ft	270.56	CONCRETE	0 ft	400 ft
	46 m	3,662 m	263.18		0 m	122 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
07	DME	IDZG	111.55 MHz	18 nm	-	-	5,352 ft
				33 km	-		5,352 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
08	DME	IFUI	108.90 MHz	18 nm 33 km	- -	-	5,345 ft 5,345 m
16L	DME	ILTT	111.10 MHz	18 nm 33 km	- -	-	5,347 ft 5,347 m
16R	DME	IDQQ	111.90 MHz	18 nm 33 km	- -	-	5,311 ft 5,311 m
17L	DME	IBXP	110.15 MHz	18 nm 33 km	- -	-	5,328 ft 5,328 m
17R	DME	IACX	108.50 MHz	18 nm 33 km	- -	-	5,390 ft 5,390 m
25	DME	IERP	111.55 MHz	18 nm 33 km	- -	-	5,352 ft 5,352 m
26	DME	IJOY	108.90 MHz	18 nm 33 km	- -	-	5,300 ft 5,300 m
34L	DME	IDXU	111.90 MHz	18 nm 33 km	- -	-	5,311 ft 5,311 m
34R	DME	IOUF	111.10 MHz	18 nm 33 km	- -	-	5,349 ft 5,349 m
35L	DME	IAQD	108.50 MHz	18 nm 33 km	- -	-	5,421 ft 5,421 m
35R	DME	IDPP	110.15 MHz	18 nm 33 km	- -	-	5,360 ft 5,360 m
07	LOC-ILS	IDZG	111.55 MHz	18 nm 33 km	90.51 83.12	-	5,431 ft 5,431 m
08	LOC-ILS	IFUI	108.90 MHz	18 nm 33 km	90.55 83.16	-	5,431 ft 5,431 m
16L	LOC-ILS	ILTT	111.10 MHz	18 nm 33 km	180.51 173.12	-	5,431 ft 5,431 m
16R	LOC-ILS	IDQQ	111.90 MHz	18 nm 33 km	180.50 173.11	-	5,431 ft 5,431 m
17L	LOC-ILS	IBXP	110.15 MHz	18 nm 33 km	180.53 173.14	-	5,431 ft 5,431 m
17R	LOC-ILS	IACX	108.50 MHz	18 nm 33 km	180.53 173.14	-	5,431 ft 5,431 m
25	LOC-ILS	IERP	111.55 MHz	18 nm 33 km	270.51 263.12	-	5,431 ft 5,431 m
26	LOC-ILS	IJOY	108.90 MHz	18 nm 33 km	270.55 263.16	-	5,431 ft 5,431 m
34L	LOC-ILS	IDXU	111.90 MHz	18 nm 33 km	0.50 353.11	-	5,431 ft 5,431 m
34R	LOC-ILS	IOUF	111.10 MHz	18 nm 33 km	0.51 353.12	-	5,431 ft 5,431 m
35L	LOC-ILS	IAQD	108.50 MHz	18 nm 33 km	0.53 353.14	-	5,431 ft 5,431 m
35R	LOC-ILS	IDPP	110.15 MHz	18 nm 33 km	0.53 353.14	-	5,431 ft 5,431 m
07	GS	IDZG	111.55 MHz	10 nm 19 km	90.51 83.12	3.00	5,431 ft 5,431 m
08	GS	IFUI	108.90 MHz	10 nm 19 km	90.55 83.16	3.00	5,431 ft 5,431 m
16L	GS	ILTT	111.10 MHz	10 nm 19 km	180.51 173.12	3.00	5,431 ft 5,431 m
16R	GS	IDQQ	111.90 MHz	10 nm 19 km	180.50 173.11	3.00	5,431 ft 5,431 m
17L	GS	IBXP	110.15 MHz	10 nm 19 km	180.53 173.14	3.00	5,431 ft 5,431 m
17R	GS	IACX	108.50 MHz	10 nm 19 km	180.53 173.14	3.00	5,431 ft 5,431 m
25	GS	IERP	111.55 MHz	10 nm 19 km	270.51 263.12	3.00	5,431 ft 5,431 m
26	GS	IJOY	108.90 MHz	10 nm	270.55	3.00	5,431 ft

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
				19 km	263.16		5,431 m
34L	GS	IDXU	111.90 MHz	10 nm	0.50	3.00	5,431 ft
				19 km	353.11		5,431 m
34R	GS	IOUF	111.10 MHz	10 nm	0.51	3.00	5,431 ft
				19 km	353.12		5,431 m
35L	GS	IAQD	108.50 MHz	10 nm	0.53	3.00	5,431 ft
				19 km	353.14		5,431 m
35R	GS	IDPP	110.15 MHz	10 nm	0.53	3.00	5,431 ft
				19 km	353.14		5,431 m