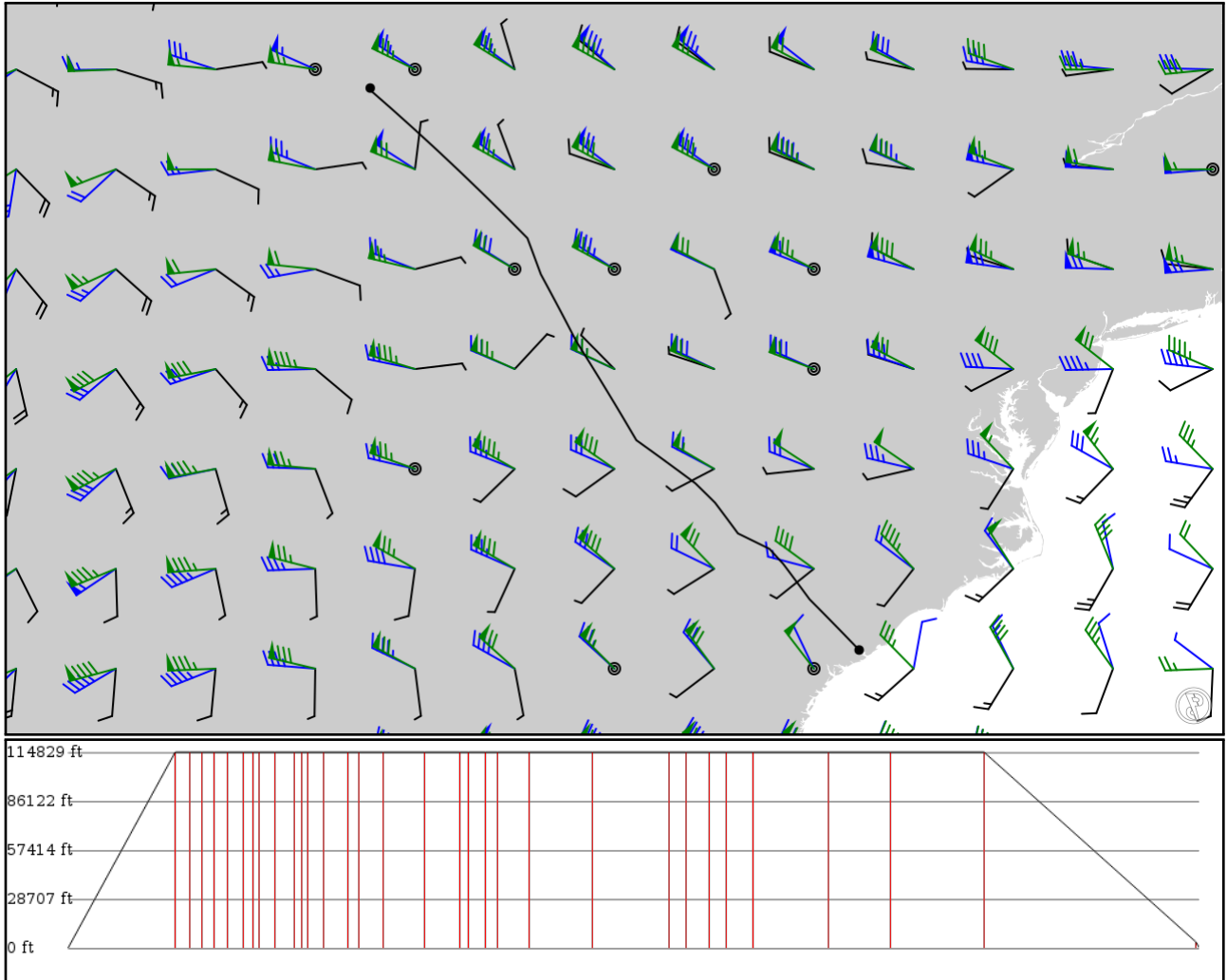


2024/05/29 0334Z

KCHS WIDER V53 SUG V185 SOT V517 LOZ V310 IIU J89 OBK J101 BAE J89 DLH KDLH

1023.13 nm / 1894.84 km



Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 35000ft
- Cruise Speed: 200kts
- 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
KCHS APT	-	32.89810 -80.04060	0 ft 0 m	-	Charleston AFB/Intl
WIDER FIX	-	34.15750 -81.27400	35,000 ft 10,668 m	97	-
BUBBA FIX	V53 AWY-LO	34.33650 -81.40610	35,000 ft 10,668 m	12	-
WILLS FIX	V53 AWY-LO	34.49540 -81.52400	35,000 ft 10,668 m	11	-
UNARM FIX	V53 AWY-LO	34.65490 -81.64270	35,000 ft 10,668 m	11	-
BUILD FIX	V53 AWY-LO	34.81960 -81.76600	35,000 ft 10,668 m	11	-
SPA VOR	V53 AWY-LO	35.03360 -81.92700	35,000 ft 10,668 m	15	SPARTANBURG
CARTT FIX	V53 AWY-LO	35.14430 -82.02800	35,000 ft 10,668 m	8	-
OBURY FIX	V53 AWY-LO	35.21630 -82.09390	35,000 ft 10,668 m	5	-
SUG VOR	V53 AWY-LO	35.40650 -82.26860	35,000 ft 10,668 m	14	SUGARLOAF MT. (ASHEVILLE)
OZONE FIX	V185 AWY-LO	35.56180 -82.58380	35,000 ft 10,668 m	18	-
RIGEL FIX	V185 AWY-LO	35.61290 -82.68810	35,000 ft 10,668 m	5	-
MUMMI FIX	V185 AWY-LO	35.66350 -82.79170	35,000 ft 10,668 m	5	-
SOT VOR	V185 AWY-LO	35.79010 -83.05240	35,000 ft 10,668 m	14	SNOWBIRD
WHINS FIX	V517 AWY-LO	36.09460 -83.27790	35,000 ft 10,668 m	21	-
TAMPI FIX	V517 AWY-LO	36.24620 -83.39100	35,000 ft 10,668 m	10	-
MIAMI FIX	V517 AWY-LO	36.55390 -83.62210	35,000 ft 10,668 m	21	-
LOZ VOR	V517 AWY-LO	37.03310 -84.11010	35,000 ft 10,668 m	37	LONDON
DOLLY FIX	V310 AWY-LO	37.40060 -84.60640	35,000 ft 10,668 m	32	-
UNCKL FIX	V310 AWY-LO	37.48140 -84.71630	35,000 ft 10,668 m	7	-
DARBY FIX	V310 AWY-LO	37.65430 -84.95340	35,000 ft 10,668 m	15	-
MAUDD FIX	V310 AWY-LO	37.78460 -85.13320	35,000 ft 10,668 m	11	-
IIU VOR	V310 AWY-LO	38.10350 -85.57740	35,000 ft 10,668 m	28	LOUISVILLE
KURTZ FIX	J89 AWY-HI	38.97220 -86.09270	35,000 ft 10,668 m	57	-
MACES FIX	J89 AWY-HI	40.00370 -86.72300	35,000 ft 10,668 m	68	-
TORIO FIX	J89 AWY-HI	40.24910 -86.87600	35,000 ft 10,668 m	16	-
BVT	J89	40.55620	35,000 ft	20	BOILER (LAFAYETTE)

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
VOR	AWY-HI	-87.06940	10,668 m		
FATOX	J89	40.80120	35,000 ft	15	-
FIX	AWY-HI	-87.19600	10,668 m		
CADIZ	J89	41.16780	35,000 ft	23	-
FIX	AWY-HI	-87.38770	10,668 m		
OBK	J89	42.22140	35,000 ft	68	NORTHBROOK
VOR	AWY-HI	-87.95160	10,668 m		
BAE	J101	43.11690	35,000 ft	55	BADGER (MILWAUKEE)
VOR	AWY-HI	-88.28430	10,668 m		
BGOSH	J89	44.26200	35,000 ft	84	-
FIX	AWY-HI	-89.43420	10,668 m		
DLH	J89	46.80220	1,100 ft	191	DULUTH
VOR	AWY-HI	-92.20290	335 m		
KDLH	-	46.84220	0 ft	2	Duluth Intl
APT	-	-92.19120	0 m		

KCHS

Region: UNITED STATES
Timezone: AMERICA/NEW_YORK
Runways: 2

Elevation: 45 ft / 14 m
Location: 32.898100 -80.040600
Magnetic Var: 8.308 W

METAR

KCHS 290256Z 24006KT 10SM FEW080 26/22 A2997 RMK A02 SLP146 T02560217 53021

TAF

TAF KCHS 282320Z 2900/2924 23006KT P6SM FEW080 FM290400 31004KT P6SM SKC FM291300 31009KT P6SM FEW250

Frequencies

REC - 124.75 MHz - CHARLESTON ATIS	COM - 122.95 MHz - CHARLESTON UNICOM
GND - 121.90 MHz - CHARLESTON GROUND	TWR - 126.00 MHz - CHARLESTON TOWER
CLD - 127.32 MHz - CLEARANCE DELIVERY	DEP - 119.30 MHz - CHARLESTON DEPARTURE
DEP - 120.70 MHz - CHARLESTON DEPARTURE	APP - 119.30 MHz - CHARLESTON APPROACH
APP - 120.70 MHz - CHARLESTON APPROACH	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
15	150 ft	9,015 ft	147.54	CONCRETE	0 ft	1,001 ft
	46 m	2,748 m	155.85		0 m	305 m
33	150 ft	9,015 ft	327.55	CONCRETE	0 ft	1,001 ft
	46 m	2,748 m	335.86		0 m	305 m
03	150 ft	7,016 ft	24.30	CONCRETE	0 ft	1,001 ft
	46 m	2,138 m	32.61		0 m	305 m
21	150 ft	7,016 ft	204.31	CONCRETE	0 ft	801 ft
	46 m	2,138 m	212.61		0 m	244 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
15	LOC-ILS	ICHS	109.70 MHz	18 nm	147.55	-	45 ft
				33 km	155.86		45 m
33	LOC-ILS	ICCI	108.90 MHz	18 nm	327.55	-	45 ft
				33 km	335.86		45 m
15	GS	ICHS	109.70 MHz	10 nm	147.55	3.00	45 ft
				19 km	155.86		45 m
33	GS	ICCI	108.90 MHz	10 nm	327.55	3.00	45 ft
				19 km	335.86		45 m

KDLH

Region: UNITED STATES
Timezone: AMERICA/CHICAGO
Runways: 2

Elevation: 1,427 ft / 435 m
Location: 46.842200 -92.191200
Magnetic Var: 1.305 W

METAR

KDLH 290255Z 03005KT 10SM SCT043 BKN050 13/07 A3016 RMK A02 RAE09 SLP219 P0000 60000 T01280072 53017

TAF

KDLH 282328Z 2900/2924 33005KT P6SM VCSH FEW040 SCT070 FM290300 04005KT P6SM SCT080 FM291000 00000KT 2SM BR FEW010

Frequencies

COM - 122.95 MHz - DULUTH TRAFFIC
GND - 121.90 MHz - DULUTH GROUND
APP - 125.45 MHz - DULUTH APPROACH

REC - 124.10 MHz - ATIS
TWR - 118.30 MHz - DULUTH TOWER
DEP - 125.45 MHz - DULUTH DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
09	150 ft	10,134 ft	92.26	CONCRETE	0 ft	400 ft
	46 m	3,089 m	93.57		0 m	122 m
27	150 ft	10,134 ft	272.29	CONCRETE	0 ft	0 ft
	46 m	3,089 m	273.60		0 m	0 m
03	150 ft	5,718 ft	31.47	ASPHALT	0 ft	0 ft
	46 m	1,743 m	32.77		0 m	0 m
21	150 ft	5,718 ft	211.47	ASPHALT	0 ft	0 ft
	46 m	1,743 m	212.78		0 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
09	LOC-ILS	IDLH	110.30 MHz	18 nm	92.28	-	1,426 ft
				33 km	93.59		1,426 m
27	LOC-ILS	IJUD	108.70 MHz	18 nm	272.28	-	1,426 ft
				33 km	273.59		1,426 m
09	GS	IDLH	110.30 MHz	10 nm	92.28	3.00	1,426 ft
				19 km	93.59		1,426 m
27	GS	IJUD	108.70 MHz	10 nm	272.28	3.00	1,426 ft
				19 km	273.59		1,426 m