KIAD
Washington Dulles Intl

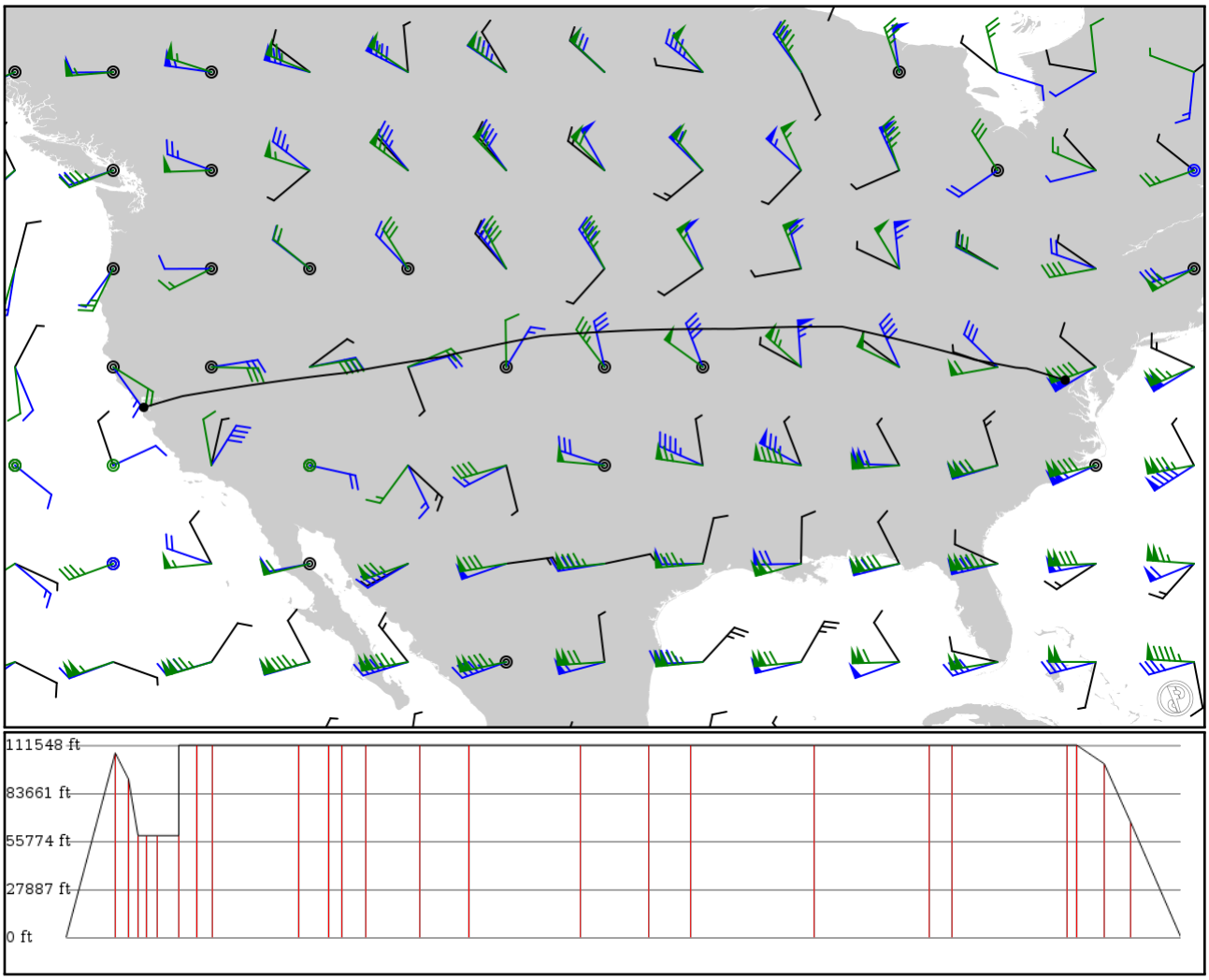
-

KSFO
San Francisco Intl

2024/03/19 0217Z

KIAD BAABY **J162** MGW **V144** ZZV **J30** JOT **J146** IOW **J10** OBH **J100** EKR **J84** MELTS KSFO

2109.60 nm / 3906.98 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
KIAD APT	–	38.94771 -77.46086	0 ft 0 m	–	Washington Dulles Intl
BAABY FIX	–	39.51634 -79.34599	32,600 ft 9,936 m	94	–
MGW VOR	J162 AWY-HI	39.55669 -79.86039	28,000 ft 8,534 m	23	MORGANTOWN VORTAC
ABDAL FIX	V144 AWY-LO	39.63864 -80.27658	18,000 ft 5,486 m	19	–
BURGS FIX	V144 AWY-LO	39.69852 -80.58639	18,000 ft 5,486 m	14	–
BEALL FIX	V144 AWY-LO	39.78515 -81.04320	18,000 ft 5,486 m	21	–
ZZV VOR	V144 AWY-LO	39.94086 -81.89261	18,000 ft 5,486 m	40	ZANESVILLE VOR-DME
OTMAN FIX	J30 AWY-HI	39.94700 -81.90433	34,000 ft 10,363 m	0	–
APE VOR	J30 AWY-HI	40.15106 -82.58831	34,000 ft 10,363 m	33	APPLETON VORTAC
TRAKK FIX	J30 AWY-HI	40.30899 -83.17160	34,000 ft 10,363 m	28	–
WHETT FIX	J30 AWY-HI	41.16018 -86.58415	34,000 ft 10,363 m	163	–
MOPER FIX	J30 AWY-HI	41.43126 -87.78678	34,000 ft 10,363 m	56	–
JOT VOR	J30 AWY-HI	41.54642 -88.31842	34,000 ft 10,363 m	24	JOLIET VORTAC
VORIN FIX	J146 AWY-HI	41.54800 -89.33638	34,000 ft 10,363 m	45	–
IOW DME	J146 AWY-HI	41.51896 -91.61325	34,000 ft 10,363 m	102	IOWA CITY VORTAC
DSM VOR	J10 AWY-HI	41.43761 -93.64856	34,000 ft 10,363 m	91	DES MOINES VORTAC
OBH VOR	J10 AWY-HI	41.37572 -98.35358	34,000 ft 10,363 m	211	WOLBACH VORTAC
ELJAY FIX	J100 AWY-HI	41.22510 -101.22146	34,000 ft 10,363 m	129	–
SNY VOR	J100 AWY-HI	41.09667 -102.98300	34,000 ft 10,363 m	80	SIDNEY VORTAC
EKR VOR	J100 AWY-HI	40.06742 -107.92494	34,000 ft 10,363 m	233	MEEKER VOR-DME
DTA VOR	J84 AWY-HI	39.30222 -112.50556	34,000 ft 10,363 m	216	DELTA VORTAC
PAWLY FIX	J84 AWY-HI	39.19714 -113.43983	34,000 ft 10,363 m	43	–
MVA VOR	J84 AWY-HI	38.56531 -118.03286	34,000 ft 10,363 m	218	MINA VORTAC
BABIT FIX	J84 AWY-HI	38.51148 -118.38457	34,000 ft 10,363 m	16	–
SONNY FIX	J84 AWY-HI	38.33575 -119.48453	30,700 ft 9,357 m	52	–
MELTS FIX	J84 AWY-HI	38.16558 -120.48856	20,400 ft 6,218 m	48	–
KSFO APT	–	37.61867 -122.37501	0 ft 0 m	95	San Francisco Intl

KIAD

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

Elevation: 312 ft / 95 m
Location: 38.947700 -77.460900
Magnetic Var: 10.662 W

METAR

KIAD 190152Z 31011G21KT 10SM FEW050 03/M10 A2990 RMK AO2 PK WND 30029/0055 SLP128 T00281100

TAF

TAF KIAD 182320Z 1900/2006 32020G30KT P6SM FEW050 SCT250 FM190200 31013G21KT P6SM FEW250 FM190400 30011KT P6SM SC

Frequencies

COM - 122.95 MHz - UNICOM
CLD - 135.70 MHz - CLEARANCE DELIVERY
GND - 121.90 MHz - DULLES GROUND
TWR - 120.25 MHz - DULLES TOWER
APP - 120.45 MHz - POTOMAC APPROACH
APP - 128.52 MHz - POTOMAC APPROACH
DEP - 125.05 MHz - POTOMAC DEPARTURE
REC - 134.85 MHz - D-ATIS
GND - 121.62 MHz - DULLES GROUND
TWR - 120.10 MHz - DULLES TOWER
TWR - 134.42 MHz - DULLES TOWER
APP - 126.10 MHz - POTOMAC APPROACH
DEP - 126.65 MHz - POTOMAC DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
01L	151 ft 46 m	9,408 ft 2,868 m	0.64 11.30	CONCRETE	0 ft 0 m	404 ft 123 m
19R	151 ft 46 m	9,408 ft 2,868 m	180.64 191.30	CONCRETE	0 ft 0 m	404 ft 123 m
01C	151 ft 46 m	11,510 ft 3,508 m	0.65 11.31	CONCRETE	0 ft 0 m	407 ft 124 m
19C	151 ft 46 m	11,510 ft 3,508 m	180.65 191.31	CONCRETE	0 ft 0 m	43 ft 13 m
01R	151 ft 46 m	11,510 ft 3,508 m	0.66 11.33	CONCRETE	0 ft 0 m	43 ft 13 m
19L	151 ft 46 m	11,510 ft 3,508 m	180.66 191.33	CONCRETE	0 ft 0 m	387 ft 118 m
12	151 ft 46 m	10,513 ft 3,204 m	110.71 121.37	CONCRETE	0 ft 0 m	20 ft 6 m
30	151 ft 46 m	10,513 ft 3,204 m	290.73 301.39	CONCRETE	0 ft 0 m	387 ft 118 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
01R	DME	IIAD	110.10 MHz	18 nm 33 km	- -	-	314 ft 314 m
19L	DME	ISGC	110.10 MHz	18 nm 33 km	- -	-	314 ft 314 m
19R	DME	IISU	110.75 MHz	18 nm 33 km	- -	-	313 ft 313 m
01C	LOC-ILS	IOSZ	111.30 MHz	18 nm 33 km	0.65 11.31	-	312 ft 312 m
01R	LOC-ILS	IIAD	110.10 MHz	18 nm 33 km	0.67 11.33	-	312 ft 312 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
12	LOC-ILS	IAJU	109.30 MHz	18 nm 33 km	110.74 121.40	-	312 ft 312 m
19C	LOC-ILS	IDLX	111.30 MHz	18 nm 33 km	180.65 191.31	-	312 ft 312 m
19L	LOC-ILS	ISGC	110.10 MHz	18 nm 33 km	180.67 191.33	-	312 ft 312 m
19R	LOC-ILS	IISU	110.75 MHz	18 nm 33 km	180.58 191.24	-	312 ft 312 m
01L	LOC-ILS	IOIU	110.75 MHz	18 nm 33 km	0.58 11.24	-	312 ft 312 m
01C	GS	IOSZ	111.30 MHz	10 nm 19 km	0.65 11.31	3.00	312 ft 312 m
01R	GS	IIAD	110.10 MHz	10 nm 19 km	0.67 11.33	3.00	312 ft 312 m
12	GS	IAJU	109.30 MHz	10 nm 19 km	110.74 121.40	3.00	312 ft 312 m
19C	GS	IDLX	111.30 MHz	10 nm 19 km	180.65 191.31	3.00	312 ft 312 m
19L	GS	ISGC	110.10 MHz	10 nm 19 km	180.67 191.33	3.00	312 ft 312 m
19R	GS	IISU	110.75 MHz	10 nm 19 km	180.58 191.24	3.00	312 ft 312 m
01L	GS	IOIU	110.75 MHz	10 nm 19 km	0.58 11.24	3.00	312 ft 312 m

KSFO

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

Elevation: 13 ft / 4 m
Location: 37.618500 -122.375000
Magnetic Var: 12.857 E

METAR

KSFO 190156Z 29019KT 10SM FEW010 FEW200 13/10 A3004 RMK AO2 SLP171 T01330100

TAF

TAF KSFO 182320Z 1900/2006 28011KT P6SM SKC FM190600 27006KT 3SM BR SCT002 BKN010 FM191400 28014KT P6SM SKC

Frequencies

REC - 113.70 MHz - D-ATIS
REC - 118.85 MHz - D-ATIS
CLD - 118.20 MHz -
SAN FRANCISCO CLEARANCE DELIVERY
TWR - 120.50 MHz - SAN FRANCISCO TOWER
APP - 128.32 MHz - NORCAL APPROACH
APP - 133.95 MHz - NORCAL APPROACH
DEP - 135.10 MHz - NORCAL DEPARTURE

REC - 115.80 MHz - D-ATIS
COM - 122.95 MHz - UNICOM
GND - 121.80 MHz - SAN FRANCISCO GROUND
APP - 134.50 MHz - NORCAL APPROACH
APP - 128.57 MHz - NORCAL APPROACH
DEP - 120.90 MHz - NORCAL DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
10L	200 ft 61 m	11,859 ft 3,615 m	117.90 105.04	ASPHALT	0 ft 0 m	876 ft 267 m
28R	200 ft 61 m	11,859 ft 3,615 m	297.92 285.06	ASPHALT	302 ft 92 m	318 ft 97 m
10R	200 ft 61 m	11,371 ft 3,466 m	117.90 105.04	ASPHALT	0 ft 0 m	748 ft 228 m
28L	200 ft 61 m	11,371 ft 3,466 m	297.92 285.06	ASPHALT	305 ft 93 m	322 ft 98 m
01R	200 ft 61 m	8,665 ft 2,641 m	27.71 14.85	ASPHALT	564 ft 172 m	404 ft 123 m
19L	200 ft 61 m	8,665 ft 2,641 m	207.72 194.86	ASPHALT	0 ft 0 m	443 ft 135 m
01L	200 ft 61 m	7,664 ft 2,336 m	27.71 14.85	ASPHALT	643 ft 196 m	469 ft 143 m
19R	200 ft 61 m	7,664 ft 2,336 m	207.72 194.86	ASPHALT	0 ft 0 m	446 ft 136 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
19L	DME	ISIA	108.90 MHz	18 nm 33 km	- -	-	24 ft 24 m
28L	DME	ISFO	109.55 MHz	18 nm 33 km	- -	-	22 ft 22 m
28R	DME	IGWQ	111.70 MHz	18 nm 33 km	- -	-	17 ft 17 m
28R	DME	IFNP	110.75 MHz	18 nm 33 km	- -	-	13 ft 13 m
19L	LOC-ILS	ISIA	108.90 MHz	18 nm 33 km	207.72 194.86	-	13 ft 13 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
28L	LOC-ILS	ISFO	109.55 MHz	18 nm 33 km	297.91 285.05	-	13 ft 13 m
28R	LOC-ILS	IGWQ	111.70 MHz	18 nm 33 km	297.91 285.05	-	13 ft 13 m
19L	GS	ISIA	108.90 MHz	10 nm 19 km	207.72 194.86	3.00	13 ft 13 m
28L	GS	ISFO	109.55 MHz	10 nm 19 km	297.91 285.05	2.85	13 ft 13 m
28R	GS	IGWQ	111.70 MHz	10 nm 19 km	297.91 285.05	3.00	13 ft 13 m