

KHOU

William P. Hobby Airport

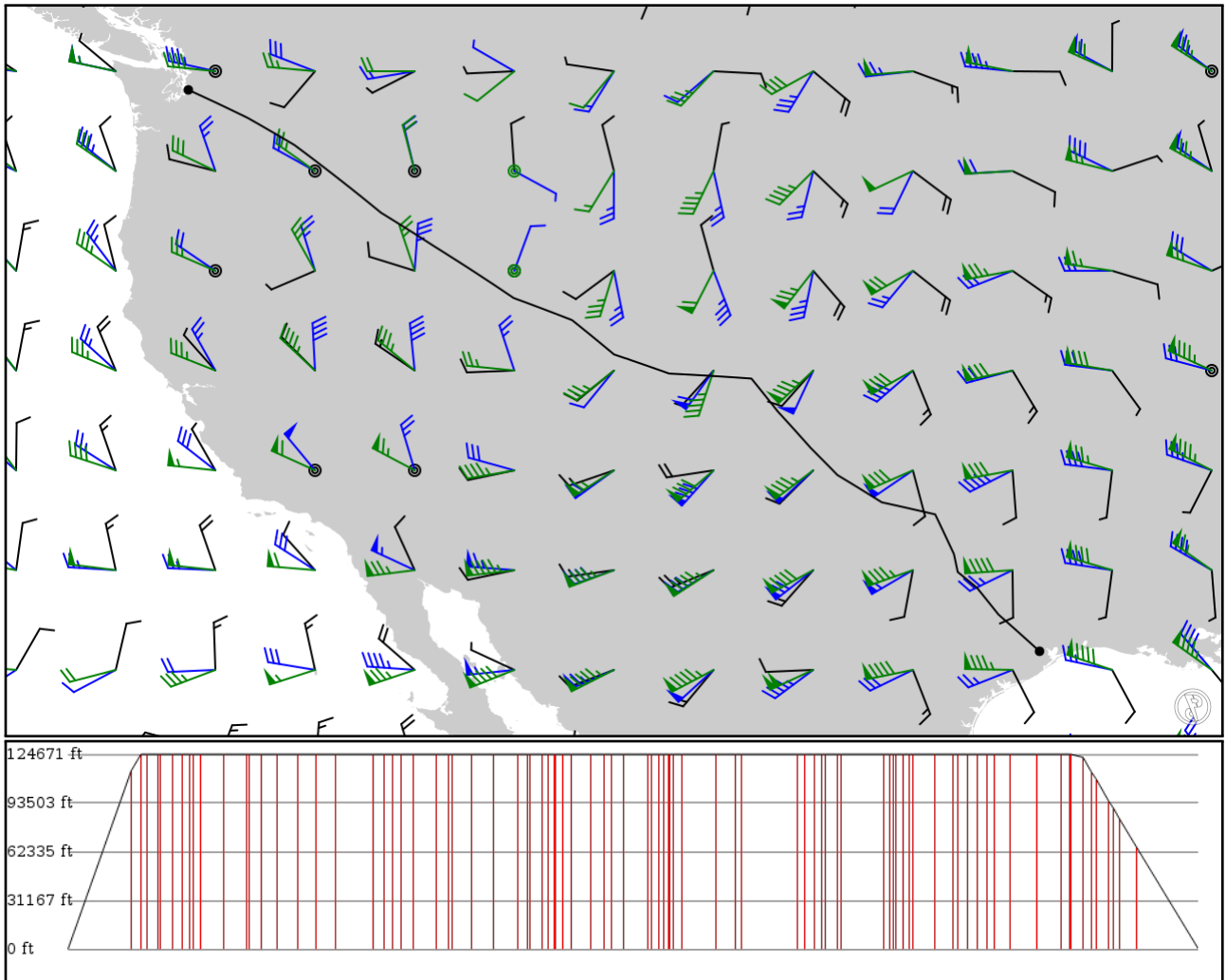
KSEA

Seattle-Tacoma Intl

2024/05/03 0433Z

KHOU GASEC **V15** ACT **V17** MQP **V568** SPS **V114** PNH **V81** PUB **V244** HBU **V484** TWF **V253** BOI **V4** SUNED **V298** YKM
KSEA

1713.19 nm / 3172.83 km



Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 38000ft
- Cruise Speed: 420kts
- Descent Rate: 1500ft/min
- Descent Speed: 250kts

Options:

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

- Use high airways: no

Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
KHOU APT	-	29.64550 -95.27910	0 ft 0 m	-	William P. Hobby Airport
GASEC FIX	-	30.81170 -96.58470	34,800 ft 10,607 m	97	-
HAMAN FIX	V15 AWY-LO	30.99410 -96.73010	38,000 ft 11,582 m	13	-
LOTTA FIX	V15 AWY-LO	31.14120 -96.84790	38,000 ft 11,582 m	10	-
SATTY FIX	V15 AWY-LO	31.36050 -97.02440	38,000 ft 11,582 m	15	-
OMOBE FIX	V15 AWY-LO	31.40650 -97.06160	38,000 ft 11,582 m	3	-
ACT VOR	V15 AWY-LO	31.66220 -97.26900	38,000 ft 11,582 m	18	WACO
IGORR FIX	V17 AWY-LO	31.82440 -97.46630	38,000 ft 11,582 m	14	-
GAINS FIX	V17 AWY-LO	31.95200 -97.62240	38,000 ft 11,582 m	11	-
BRIAN FIX	V17 AWY-LO	32.03120 -97.71950	38,000 ft 11,582 m	6	-
JEN VOR	V17 AWY-LO	32.15960 -97.87770	38,000 ft 11,582 m	11	GLEN ROSE
MQP VOR	V17 AWY-LO	32.72620 -97.99740	38,000 ft 11,582 m	34	MILLSAP (MINERAL WELLS)
MUZZO FIX	V568 AWY-LO	33.25160 -98.24350	38,000 ft 11,582 m	33	-
SHAKY FIX	V568 AWY-LO	33.30900 -98.27050	38,000 ft 11,582 m	3	-
KARYN FIX	V568 AWY-LO	33.59700 -98.40710	38,000 ft 11,582 m	18	-
SPS VOR	V568 AWY-LO	33.98730 -98.59350	38,000 ft 11,582 m	25	WICHITA FALLS
VASTY FIX	V114 AWY-LO	34.12440 -99.18880	38,000 ft 11,582 m	30	-
PEWAE FIX	V114 AWY-LO	34.24070 -99.70560	38,000 ft 11,582 m	26	-
CDS VOR	V114 AWY-LO	34.36910 -100.28900	38,000 ft 11,582 m	29	CHILDRRESS
DOGIN FIX	V114 AWY-LO	34.94780 -101.22500	38,000 ft 11,582 m	57	-
CAUDE FIX	V114 AWY-LO	35.10650 -101.48600	38,000 ft 11,582 m	15	-
PNH VOR	V114 AWY-LO	35.23510 -101.69900	38,000 ft 11,582 m	12	PANHANDLE
LANTT FIX	V81 AWY-LO	35.40550 -101.86500	38,000 ft 11,582 m	13	-
EXELL FIX	V81 AWY-LO	35.63870 -102.09500	38,000 ft 11,582 m	17	-
DHT VOR	V81 AWY-LO	36.09150 -102.54500	38,000 ft 11,582 m	34	DALHART
COYAG FIX	V81 AWY-LO	36.35040 -102.77500	38,000 ft 11,582 m	19	-
EPAYI	V81	36.43110	38,000 ft	5	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-LO	-102.84800	11,582 m		
ACAGU	V81	36.81620	38,000 ft	28	-
FIX	AWY-LO	-103.19500	11,582 m		
TBE	V81	37.25870	38,000 ft	32	TOBE
VOR	AWY-LO	-103.60000	11,582 m		
BLOOM	V81	37.79690	38,000 ft	38	-
FIX	AWY-LO	-104.02800	11,582 m		
STAXX	V81	37.98010	38,000 ft	13	-
FIX	AWY-LO	-104.17500	11,582 m		
EYULE	V81	38.05540	38,000 ft	5	-
FIX	AWY-LO	-104.23600	11,582 m		
PUB	V81	38.29430	38,000 ft	16	PUEBLO
VOR	AWY-LO	-104.42900	11,582 m		
FSHER	V244	38.30970	38,000 ft	10	-
FIX	AWY-LO	-104.64800	11,582 m		
STANO	V244	38.32230	38,000 ft	8	-
FIX	AWY-LO	-104.83000	11,582 m		
ACZES	V244	38.32640	38,000 ft	2	-
FIX	AWY-LO	-104.88900	11,582 m		
FLOOD	V244	38.34000	38,000 ft	9	-
FIX	AWY-LO	-105.09400	11,582 m		
RODDY	V244	38.35850	38,000 ft	13	-
FIX	AWY-LO	-105.37900	11,582 m		
KANON	V244	38.39590	38,000 ft	28	-
FIX	AWY-LO	-105.99200	11,582 m		
SKOTI	V244	38.42040	38,000 ft	20	-
FIX	AWY-LO	-106.42800	11,582 m		
DUFEL	V244	38.43280	38,000 ft	10	-
FIX	AWY-LO	-106.65900	11,582 m		
HBU	V244	38.45210	38,000 ft	17	BLUE MESA (GUNNISON)
VOR	AWY-LO	-107.04000	11,582 m		
ICIES	V484	38.71200	38,000 ft	37	-
FIX	AWY-LO	-107.77700	11,582 m		
BRUUK	V484	38.75270	38,000 ft	6	-
FIX	AWY-LO	-107.89400	11,582 m		
HAQHY	V484	38.82010	38,000 ft	9	-
FIX	AWY-LO	-108.08900	11,582 m		
BATTZ	V484	38.87120	38,000 ft	7	-
FIX	AWY-LO	-108.23800	11,582 m		
CESBA	V484	38.92600	38,000 ft	7	-
FIX	AWY-LO	-108.38600	11,582 m		
MIRXE	V484	38.93120	38,000 ft	1	-
FIX	AWY-LO	-108.41300	11,582 m		
AYEDY	V484	38.96370	38,000 ft	4	-
FIX	AWY-LO	-108.50900	11,582 m		
JNC	V484	39.05960	38,000 ft	14	GRAND JUNCTION
VOR	AWY-LO	-108.79300	11,582 m		
WINDO	V484	39.66770	38,000 ft	50	-
FIX	AWY-LO	-109.53000	11,582 m		
IGEHU	V484	40.02890	38,000 ft	29	-
FIX	AWY-LO	-109.97700	11,582 m		
MTU	V484	40.14910	38,000 ft	9	MYTON
VOR	AWY-LO	-110.12700	11,582 m		
PARLE	V484	40.77800	38,000 ft	84	-
FIX	AWY-LO	-111.78700	11,582 m		
TCH	V484	40.85030	38,000 ft	9	WASATCH

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
VOR	AWY-LO	-111.98200	11,582 m		
JOSIF	V484	41.02270	38,000 ft	15	-
FIX	AWY-LO	-112.23800	11,582 m		
RIDEN	V484	41.14960	38,000 ft	11	-
FIX	AWY-LO	-112.42700	11,582 m		
CAUSE	V484	41.20690	38,000 ft	5	-
FIX	AWY-LO	-112.51300	11,582 m		
HOGUP	V484	41.40240	38,000 ft	17	-
FIX	AWY-LO	-112.80800	11,582 m		
SWITZ	V484	41.47860	38,000 ft	6	-
FIX	AWY-LO	-112.92400	11,582 m		
DRYAD	V484	42.16840	38,000 ft	63	-
FIX	AWY-LO	-113.99400	11,582 m		
CEEDY	V484	42.26280	38,000 ft	8	-
FIX	AWY-LO	-114.14300	11,582 m		
WODEN	V484	42.34010	38,000 ft	7	-
FIX	AWY-LO	-114.26600	11,582 m		
FERUD	V484	42.37240	38,000 ft	2	-
FIX	AWY-LO	-114.31700	11,582 m		
TWF	V484	42.47990	38,000 ft	9	TWIN FALLS
VOR	AWY-LO	-114.48900	11,582 m		
LITKE	V253	42.58770	38,000 ft	9	-
FIX	AWY-LO	-114.65600	11,582 m		
SECAR	V253	42.64440	38,000 ft	5	-
FIX	AWY-LO	-114.74400	11,582 m		
UYEME	V253	42.65600	38,000 ft	1	-
FIX	AWY-LO	-114.76200	11,582 m		
YUWFE	V253	43.00790	38,000 ft	32	-
FIX	AWY-LO	-115.31500	11,582 m		
ALKAL	V253	43.01620	38,000 ft	0	-
FIX	AWY-LO	-115.32800	11,582 m		
CANEK	V253	43.31610	38,000 ft	27	-
FIX	AWY-LO	-115.80800	11,582 m		
ATETY	V253	43.39150	38,000 ft	6	-
FIX	AWY-LO	-115.93000	11,582 m		
BOI	V253	43.55280	38,000 ft	14	BOISE
VOR	AWY-LO	-116.19200	11,582 m		
NICPE	V4	43.73500	38,000 ft	14	-
FIX	AWY-LO	-116.41500	11,582 m		
EMETT	V4	43.91400	38,000 ft	14	-
FIX	AWY-LO	-116.63500	11,582 m		
PAYET	V4	44.06040	38,000 ft	11	-
FIX	AWY-LO	-116.81700	11,582 m		
HOVEL	V4	44.35910	38,000 ft	24	-
FIX	AWY-LO	-117.19200	11,582 m		
BKE	V4	44.84060	38,000 ft	39	BAKER CITY
VOR	AWY-LO	-117.80800	11,582 m		
LACED	V4	45.29120	38,000 ft	36	-
FIX	AWY-LO	-118.39600	11,582 m		
HEKPI	V4	45.45560	38,000 ft	13	-
FIX	AWY-LO	-118.61400	11,582 m		
PIANO	V4	45.49080	38,000 ft	2	-
FIX	AWY-LO	-118.66100	11,582 m		
PDT	V4	45.69840	37,400 ft	17	PENDLETON
VOR	AWY-LO	-118.93900	11,400 m		
CORDO	V4	45.84080	34,500 ft	13	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-LO	-119.17900	10,516 m		
LACIB	V4	45.91350	33,100 ft	6	-
FIX	AWY-LO	-119.30300	10,089 m		
AMPLE	V4	46.12230	28,900 ft	19	-
FIX	AWY-LO	-119.66100	8,809 m		
BRUKK	V4	46.19130	27,500 ft	6	-
FIX	AWY-LO	-119.78000	8,382 m		
SUNED	V4	46.29490	25,400 ft	9	-
FIX	AWY-LO	-119.96000	7,742 m		
YKM	V298	46.57020	19,900 ft	26	YAKIMA
VOR	AWY-LO	-120.44500	6,066 m		
KSEA	-	47.45020	0 ft	92	Seattle-Tacoma Intl
APT	-	-122.31200	0 m		

KHOU

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

Elevation: 46 ft / 14 m
Location: 29.646000 -95.277300
Magnetic Var: 1.701 E

METAR

KHOU 030418Z 15006KT 10SM SCT015 SCT025 SCT070 BKN250 24/22 A2981 RMK A02 T02440217

TAF

TAF AMD KHOU 030311Z 0303/0324 13007KT P6SM FEW025 SCT250 FM030400 11004KT P6SM BKN015 FM030900 11004KT P6SM VCSH

Frequencies

CLD - 125.45 MHz - CLEARANCE DELIVERY	REC - 124.60 MHz - D-ATIS
COM - 122.95 MHz - HOBBY UNICOM	GND - 121.90 MHz - HOBBY GROUND
TWR - 118.70 MHz - HOBBY TOWER	APP - 119.17 MHz - HOUSTON APPROACH
APP - 119.62 MHz - HOUSTON APPROACH	APP - 120.05 MHz - HOUSTON APPROACH
APP - 124.35 MHz - HOUSTON APPROACH	APP - 134.45 MHz - HOUSTON APPROACH
DEP - 119.70 MHz - HOUSTON DEPARTURE	DEP - 123.80 MHz - HOUSTON DEPARTURE
DEP - 134.45 MHz - HOUSTON DEPARTURE	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
04	151 ft	7,609 ft	43.82	CONCRETE	0 ft	151 ft
	46 m	2,319 m	42.12		0 m	46 m
22	151 ft	7,609 ft	223.82	CONCRETE	0 ft	151 ft
	46 m	2,319 m	222.12		0 m	46 m
13R	151 ft	7,612 ft	134.10	ASPHALT	1,037 ft	144 ft
	46 m	2,320 m	132.40		316 m	44 m
31L	151 ft	7,612 ft	314.11	ASPHALT	0 ft	151 ft
	46 m	2,320 m	312.40		0 m	46 m
13L	100 ft	5,152 ft	134.10	CONCRETE	0 ft	0 ft
	30 m	1,570 m	132.40		0 m	0 m
31R	100 ft	5,152 ft	314.10	CONCRETE	0 ft	0 ft
	30 m	1,570 m	312.40		0 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
04	DME	IHUB	109.90 MHz	18 nm	-	-	36 ft
				33 km	-		36 m
13R	DME	IPRQ	111.30 MHz	18 nm	-	-	46 ft
				33 km	-		46 m
22	DME	IOIB	109.90 MHz	18 nm	-	-	46 ft
				33 km	-		46 m
31L	DME	IUPU	111.30 MHz	18 nm	-	-	46 ft
				33 km	-		46 m
04	LOC-ILS	IHUB	109.90 MHz	18 nm	43.82	-	46 ft
				33 km	42.12		46 m
13R	LOC-ILS	IPRQ	111.30 MHz	18 nm	134.10	-	46 ft
				33 km	132.40		46 m
22	LOC-LOC	IOIB	109.90 MHz	18 nm	223.82	-	46 ft
				33 km	222.12		46 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
31L	LOC-ILS	IUPU	111.30 MHz	18 nm	314.10	-	46 ft
				33 km	312.40		46 m
04	GS	IHUB	109.90 MHz	10 nm	43.82	3.00	46 ft
				19 km	42.12		46 m
13R	GS	IPRQ	111.30 MHz	10 nm	134.10	3.00	46 ft
				19 km	132.40		46 m
31L	GS	IUPU	111.30 MHz	10 nm	314.10	3.00	46 ft
				19 km	312.40		46 m

KSEA

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

Elevation: 432 ft / 132 m
Location: 47.450200 -122.312000
Magnetic Var: 14.777 E

METAR

KSEA 030353Z 18004KT 10SM CLR 15/M04 A3002 RMK A02 SLP172 T01501039

TAF

KSEA 030257Z 0303/0406 32005KT P6SM SKC FM030800 16004KT P6SM SKC FM031500 17004KT P6SM BKN200 FM031800 23008KT P

Frequencies

REC - 118.00 MHz - SEATTLE ATIS	CLD - 128.00 MHz - SEATTLE CLEARANCE
GND - 121.70 MHz - SEATTLE GROUND	TWR - 119.90 MHz - SEATTLE TOWER
TWR - 120.95 MHz - SEATTLE TOWER	APP - 133.65 MHz - SEATTLE APPROACH
DEP - 120.10 MHz - SEATTLE DEPARTURE	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
16L	151 ft	11,904 ft	180.35	CONCRETE	0 ft	400 ft
	46 m	3,628 m	165.57		0 m	122 m
34R	151 ft	11,904 ft	0.35	CONCRETE	0 ft	400 ft
	46 m	3,628 m	345.57		0 m	122 m
16C	151 ft	9,428 ft	180.34	CONCRETE	0 ft	400 ft
	46 m	2,874 m	165.57		0 m	122 m
34C	151 ft	9,428 ft	0.34	CONCRETE	0 ft	397 ft
	46 m	2,874 m	345.57		0 m	121 m
16R	151 ft	8,502 ft	180.34	CONCRETE	0 ft	200 ft
	46 m	2,591 m	165.56		0 m	61 m
34L	151 ft	8,502 ft	0.34	CONCRETE	0 ft	197 ft
	46 m	2,591 m	345.56		0 m	60 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
16C	DME	ISZI	111.70 MHz	18 nm	-	-	470 ft
				33 km	-		470 m
16L	DME	ISNQ	110.30 MHz	18 nm	-	-	369 ft
				33 km	-		369 m
16R	DME	ICJL	110.75 MHz	18 nm	-	-	410 ft
				33 km	-		410 m
34C	DME	ITUC	111.70 MHz	18 nm	-	-	470 ft
				33 km	-		470 m
34L	DME	IB EJ	110.75 MHz	18 nm	-	-	410 ft
				33 km	-		410 m
34R	DME	ISEA	110.30 MHz	18 nm	-	-	469 ft
				33 km	-		469 m
16C	LOC-ILS	ISZI	111.70 MHz	18 nm	180.34	-	355 ft
				33 km	165.56		355 m
16L	LOC-ILS	ISNQ	110.30 MHz	18 nm	180.34	-	338 ft
				33 km	165.57		338 m
16R	LOC-ILS	ICJL	110.75 MHz	18 nm	180.34	-	410 ft
				33 km	165.56		410 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
34C	LOC-ILS	ITUC	111.70 MHz	18 nm	0.34	-	422 ft
				33 km	345.56		422 m
34L	LOC-ILS	IBEJ	110.75 MHz	18 nm	0.34	-	433 ft
				33 km	345.56		433 m
34R	LOC-ILS	ISEA	110.30 MHz	18 nm	0.34	-	428 ft
				33 km	345.57		428 m
16C	GS	ISZI	111.70 MHz	10 nm	180.67	3.00	418 ft
				19 km	165.90		418 m
16L	GS	ISNQ	110.30 MHz	10 nm	180.69	3.00	425 ft
				19 km	165.91		425 m
16R	GS	ICJL	110.75 MHz	10 nm	180.67	3.00	410 ft
				19 km	165.89		410 m
34C	GS	ITUC	111.70 MHz	10 nm	0.67	3.00	367 ft
				19 km	345.90		367 m
34L	GS	IBEJ	110.75 MHz	10 nm	0.67	3.00	360 ft
				19 km	345.89		360 m
34R	GS	ISEA	110.30 MHz	10 nm	0.69	2.75	355 ft
				19 km	345.91		355 m