

KSEA  
Seattle-Tacoma Intl

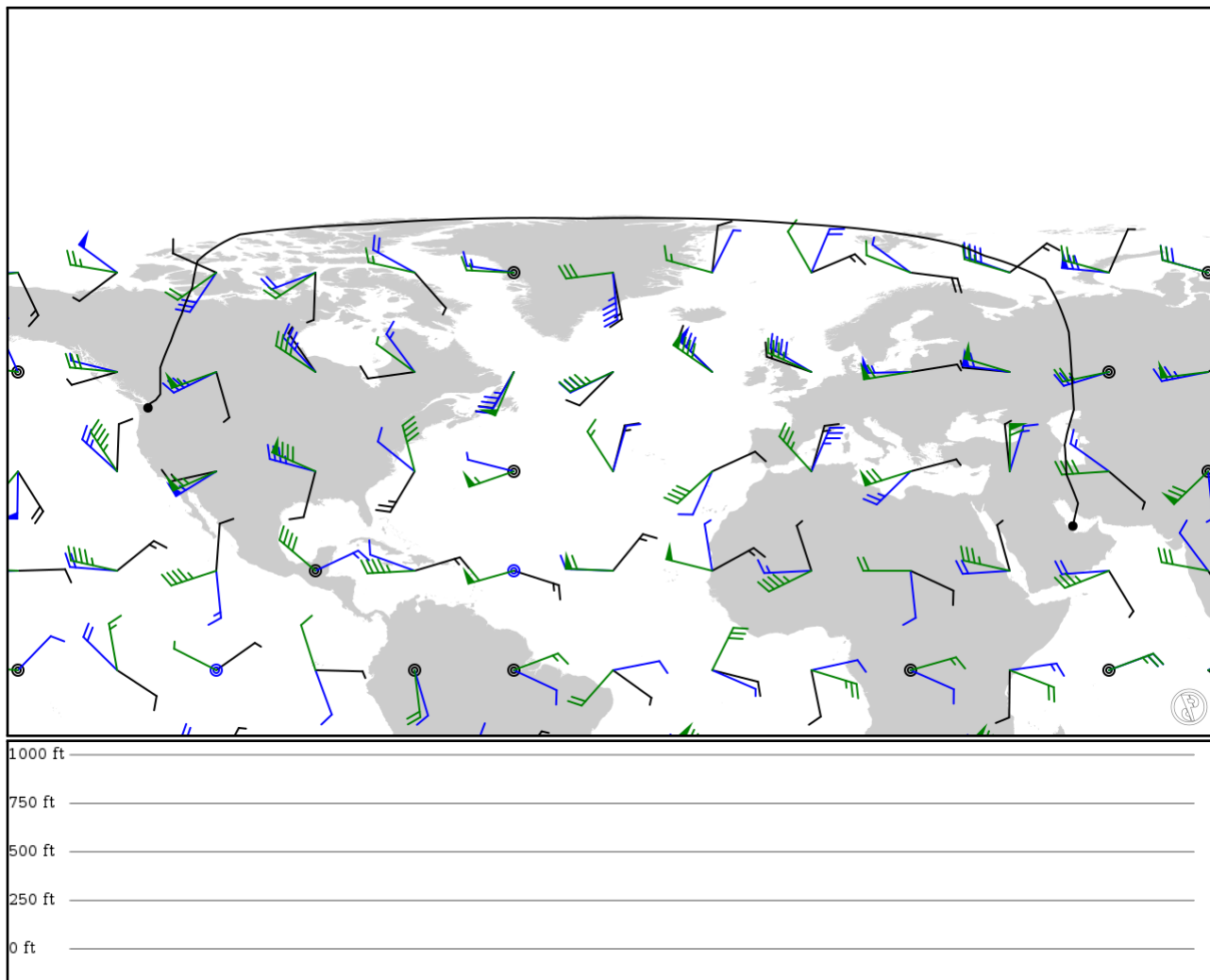
QR720

OTHH  
Hamad Intl

2024/05/20 0641Z

KSEA KSEA ALPSE IWACK 5000N12000W 5500N12000W 6000N11800W 6500N11600W 7000N11400W 7500N11300W  
8000N10500W 8200N08000W 8300N06000W 8300N04000W 8300N02000W 8200N00000E 8000N02000E 7800N03000E  
NIRUT GIMON SONIB URL ATR GASBI **N60** BAKUV **N72** SAV **UP574** SYZ KATAG **R659** VELAM **Z225** BAYAN OTHH

6585.58 nm / 12196.50 km



## Notes

Requested: KSEA KSEA ALPSE IWACK 5000N12000W 5500N12000W 6000N11800W 6500N11600W 7000N11400W 7500N11300W 8000N10500W 8200N08000W 8300N06000W 8300N04000W 8300N02000W 8200N00000E 8000N02000E 7800N03000E  
Unmatched points: VELZE T793 URIRA T762 LURIM L991 OKAMO M158 M158

## Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
KSEA	-	47.45020	0 ft	-	Seattle-Tacoma Intl
APT	-	-122.31200	0 m	-	
KSEA	-	47.45020	0 ft	0	Seattle-Tacoma Intl
APT	-	-122.31200	0 m	-	
ALPSE	-	48.16670	0 ft	44	-
FIX	-	-122.08300	0 m	-	
IWACK	-	48.93210	0 ft	67	-
FIX	-	-120.83700	0 m	-	
5000N12000W	-	50.00000	0 ft	71	-
LATLON	-	-120.00000	0 m	-	
5500N12000W	-	55.00000	0 ft	300	-
LATLON	-	-120.00000	0 m	-	
6000N11800W	-	60.00000	0 ft	307	-
LATLON	-	-118.00000	0 m	-	
6500N11600W	-	65.00000	0 ft	305	-
LATLON	-	-116.00000	0 m	-	
7000N11400W	-	70.00000	0 ft	303	-
LATLON	-	-114.00000	0 m	-	
7500N11300W	-	75.00000	0 ft	300	-
LATLON	-	-113.00000	0 m	-	
8000N10500W	-	80.00000	0 ft	317	-
LATLON	-	-105.00000	0 m	-	
8200N08000W	-	82.00000	0 ft	260	-
LATLON	-	-80.00000	0 m	-	
8300N06000W	-	83.00000	0 ft	166	-
LATLON	-	-60.00000	0 m	-	
8300N04000W	-	83.00000	0 ft	145	-
LATLON	-	-40.00000	0 m	-	
8300N02000W	-	83.00000	0 ft	145	-
LATLON	-	-20.00000	0 m	-	
8200N00000E	-	82.00000	0 ft	166	-
LATLON	-	0.00000	0 m	-	
8000N02000E	-	80.00000	0 ft	221	-
LATLON	-	20.00000	0 m	-	
7800N03000E	-	78.00000	0 ft	165	-
LATLON	-	30.00000	0 m	-	
NIRUT	-	76.00000	0 ft	137	-
FIX	-	35.00000	0 m	-	
GIMON	-	71.51690	0 ft	329	-
FIX	-	46.38000	0 m	-	
SONIB	-	61.64690	0 ft	601	-
FIX	-	50.84530	0 m	-	
URL	-	51.14870	0 ft	630	URALSK
VOR	-	51.54380	0 m	-	
ATR	-	47.14390	0 ft	240	ATYRAU
VOR	-	51.80150	0 m	-	
GASBI	-	42.43670	0 ft	288	-
FIX	-	50.47000	0 m	-	
SITON	N60	41.95750	0 ft	29	-
FIX	AWY-HI	50.38030	0 m	-	
ROPKA	N60	41.12530	0 ft	50	-
FIX	AWY-HI	50.22500	0 m	-	
BAKUV	N60	40.47250	0 ft	39	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	50.05080	0 m		
BAMAK	N72	39.80580	0 ft	40	-
FIX	AWY-HI	50.13690	0 m		
BATEV	N72	38.16810	0 ft	98	-
FIX	AWY-HI	50.23860	0 m		
UMERO	N72	37.92330	0 ft	14	-
FIX	AWY-HI	50.25390	0 m		
EGMAN	N72	37.05310	0 ft	52	-
FIX	AWY-HI	50.30750	0 m		
PAXID	N72	36.28420	0 ft	46	-
FIX	AWY-HI	50.33920	0 m		
GOLNU	N72	35.95310	0 ft	19	-
FIX	AWY-HI	50.34780	0 m		
ELIPO	N72	35.67940	0 ft	16	-
FIX	AWY-HI	50.35470	0 m		
SESBI	N72	35.53170	0 ft	8	-
FIX	AWY-HI	50.35830	0 m		
PEDAR	N72	35.14060	0 ft	23	-
FIX	AWY-HI	50.36830	0 m		
SAV	N72	35.01860	0 ft	7	SAVEH
NDB	AWY-HI	50.37140	0 m		
EGVEL	UP574	34.71610	0 ft	19	-
FIX	AWY-HI	50.50140	0 m		
PEKAM	UP574	33.48440	0 ft	78	-
FIX	AWY-HI	51.02170	0 m		
IMRAG	UP574	32.86170	0 ft	39	-
FIX	AWY-HI	51.27860	0 m		
EGPAT	UP574	32.55830	0 ft	19	-
FIX	AWY-HI	51.40250	0 m		
LOXAK	UP574	31.74830	0 ft	51	-
FIX	AWY-HI	51.72890	0 m		
OBTUX	UP574	31.37780	0 ft	23	-
FIX	AWY-HI	51.87640	0 m		
ASNIT	UP574	30.64830	0 ft	46	-
FIX	AWY-HI	52.16330	0 m		
SYZ	UP574	29.54220	0 ft	69	SHIRAZ SHAHID DASTGHAIB TACAN
DME	AWY-HI	52.58430	0 m		
KATAG	-	28.39610	0 ft	70	-
FIX	-	52.31140	0 m		
DURSI	R659	27.20530	0 ft	73	-
FIX	AWY-HI	52.02890	0 m		
MIDSI	R659	26.69500	0 ft	31	-
FIX	AWY-LO	51.91170	0 m		
SOGAN	R659	26.65420	0 ft	2	-
FIX	AWY-LO	51.90220	0 m		
ROSAN	R659	26.52480	0 ft	7	-
FIX	AWY-LO	51.87220	0 m		
DASOS	R659	26.40820	0 ft	7	-
FIX	AWY-LO	51.84530	0 m		
RABLA	R659	26.25160	0 ft	9	-
FIX	AWY-LO	51.80940	0 m		
VEDED	R659	26.09950	0 ft	9	-
FIX	AWY-LO	51.77440	0 m		
VELAM	R659	25.90730	0 ft	11	-
FIX	AWY-LO	51.72980	0 m		
GOMTO	Z225	25.70960	0 ft	14	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-LO	51.87050	0 m		
LUBAK	Z225	25.61820	0 ft 6	-	
FIX	AWY-LO	51.93550	0 m		
LABOV	Z225	25.56990	0 ft 2	-	
FIX	AWY-LO	51.92260	0 m		
BAYAN	Z225	25.49060	0 ft 7	-	
FIX	AWY-LO	51.81360	0 m		
OTHH	-	25.27450	0 ft 17	Hamad Intl	
APT	-	51.60770	0 m		

## KSEA

Region: UNITED STATES  
Timezone: AMERICA/LOS\_ANGELES  
Runways: 3

Elevation: 432 ft / 132 m  
Location: 47.450200 -122.312000  
Magnetic Var: 14.771 E

## METAR

KSEA 200553Z 24004KT 10SM FEW030 12/06 A3025 RMK AO2 SLP250 T01170061 10167 20111 52007

## TAF

KSEA 200525Z 2006/2112 VRB04KT P6SM FEW050 FM201200 19004KT P6SM FEW010 SCT015 BKN025 FM201800 22006KT P6SM FEW02

## Frequencies

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

## 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	165.58		0 m	122 m
34R	151 ft	11,904 ft	0.35	CONCRETE	0 ft	400 ft
	46 m	3,628 m	345.58		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	165.57		0 m	61 m
34L	151 ft	8,502 ft	0.34	CONCRETE	0 ft	197 ft
	46 m	2,591 m	345.57		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	165.57		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	165.57		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	345.57		422 m
34L	LOC-ILS	IBEJ	110.75 MHz	18 nm	0.34	-	433 ft
				33 km	345.57		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	165.92		425 m
16R	GS	ICJL	110.75 MHz	10 nm	180.67	3.00	410 ft
				19 km	165.90		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	345.90		360 m
34R	GS	ISEA	110.30 MHz	10 nm	0.69	2.75	355 ft
				19 km	345.92		355 m

## OTHH

Region: QATAR  
Timezone: UNKNOWN  
Runways: 2

Elevation: 13 ft / 4 m  
Location: 25.274500 51.607700  
Magnetic Var: 2.775 E

## METAR

OTHH 200600Z 32014KT CAVOK 36/11 Q1006 NOSIG

## TAF

TAF OTHH 200505Z 2006/2112 33009KT CAVOK TEMPO 2007/2016 33013G23KT TEMPO 2020/2106 24009KT

## Frequencies

REC - 126.85 MHz - ATIS	CLD - 120.87 MHz - CLEARANCE DELIVERY
TWR - 118.52 MHz - HAMAD TOWER	TWR - 118.02 MHz - HAMAD TOWER
TWR - 118.22 MHz - HAMAD TOWER	GND - 121.67 MHz - HAMAD GROUND
GND - 120.22 MHz - HAMAD GROUND	GND - 118.65 MHz - HAMAD GROUND
APP - 121.10 MHz - DOHA APPROACH	APP - 119.72 MHz - DOHA APPROACH
DEP - 119.12 MHz - DOHA DEPARTURE	

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
16L	197 ft	15,927 ft	158.28	ASPHALT	0 ft	1,017 ft
	60 m	4,855 m	155.51		0 m	310 m
34R	197 ft	15,927 ft	338.29	ASPHALT	0 ft	1,017 ft
	60 m	4,855 m	335.52		0 m	310 m
16R	197 ft	13,957 ft	158.28	ASPHALT	0 ft	1,017 ft
	60 m	4,254 m	155.50		0 m	310 m
34L	197 ft	13,957 ft	338.28	ASPHALT	0 ft	1,017 ft
	60 m	4,254 m	335.51		0 m	310 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
16L	LOC-ILS	IDE	108.70 MHz	18 nm	158.29	-	13 ft
				33 km	155.52		13 m
16R	LOC-ILS	QAT	108.10 MHz	18 nm	158.28	-	13 ft
				33 km	155.51		13 m
34L	LOC-ILS	HJJ	111.90 MHz	18 nm	338.28	-	13 ft
				33 km	335.51		13 m
34R	LOC-ILS	AZM	110.10 MHz	18 nm	338.29	-	13 ft
				33 km	335.52		13 m
16L	GS	IDE	108.70 MHz	10 nm	158.29	3.00	13 ft
				19 km	155.52		13 m
16R	GS	QAT	108.10 MHz	10 nm	158.28	3.00	13 ft
				19 km	155.51		13 m
34L	GS	HJJ	111.90 MHz	10 nm	338.28	3.00	13 ft
				19 km	335.51		13 m
34R	GS	AZM	110.10 MHz	10 nm	338.29	3.00	13 ft
				19 km	335.52		13 m