

# KSEA

Seattle-Tacoma Intl

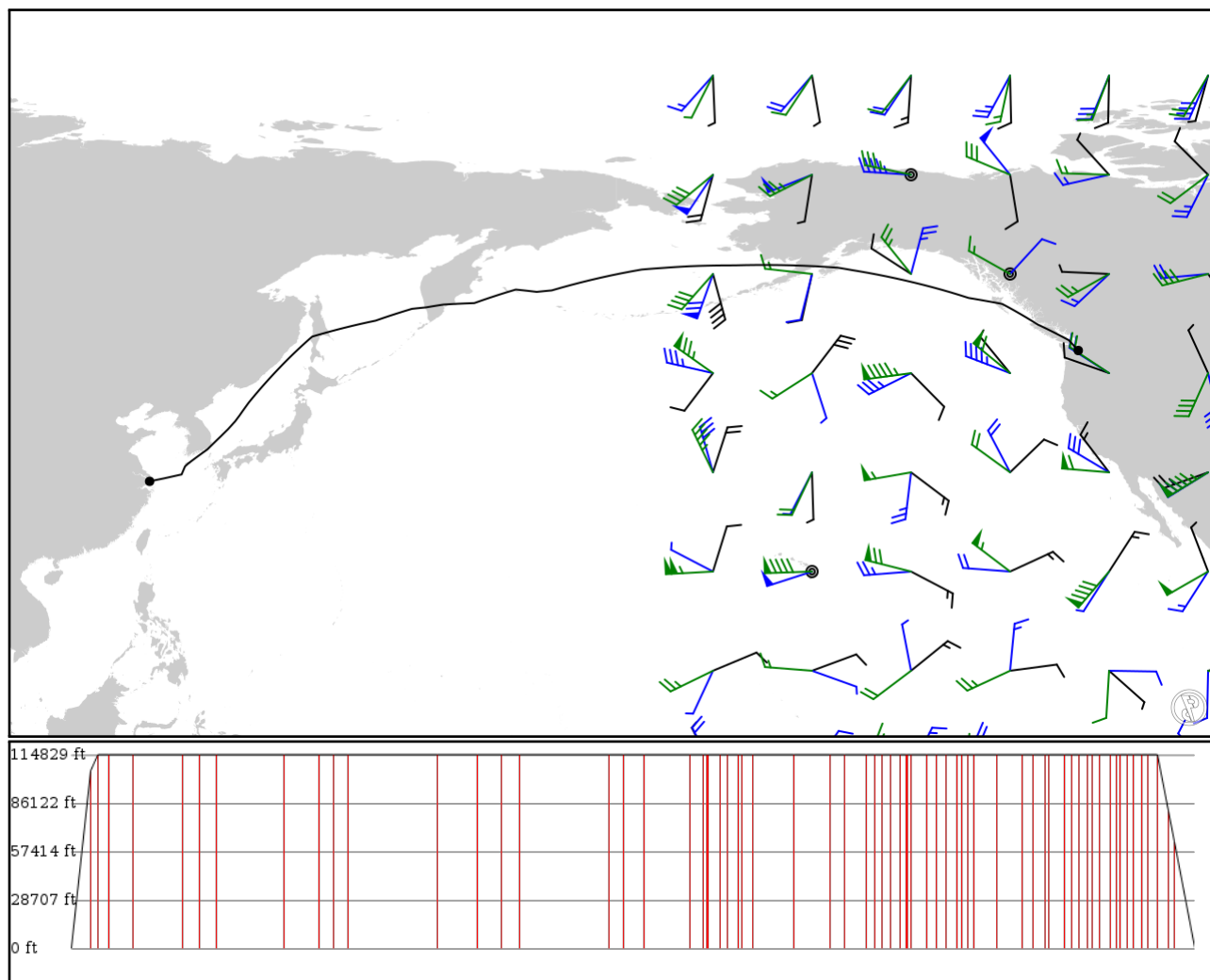
# ZSPD

Shanghai Pudong

2024/06/01 1119Z

KSEA YYJ **J502** YZT **J523** YZP **TR18** KATCH **B757** CJAYY **J123** ODK **R341** NATES KOKES **B242** DIPNA **B932** RAPAK  
**G73** UB **B915** NAMUL **R968** DITOR **B233** NULAR **B467** TENAS **A586** BEDOM PSN **A586** CJU **Z82** PANSI **Y711** PONIK  
**A593** AKARA ZSPD

5098.53 nm / 9442.48 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
KSEA APT	-	47.45020 -122.31200	0 ft 0 m	-	Seattle-Tacoma Intl
YYJ VOR	-	48.72710 -123.48400	32,100 ft 9,784 m	89	VICTORIA
ARRUE FIX	J502 AWY-HI	49.07310 -124.13000	35,000 ft 10,668 m	32	-
ROYST FIX	J502 AWY-HI	49.59140 -125.12600	35,000 ft 10,668 m	49	-
YZT VOR	J502 AWY-HI	50.68410 -127.36500	35,000 ft 10,668 m	108	PORT HARDY
YZP VOR	J523 AWY-HI	53.25220 -131.80700	35,000 ft 10,668 m	225	SANDSPIT
KALTS FIX	TR18 AWY-HI	53.62170 -133.80500	35,000 ft 10,668 m	74	-
KATCH FIX	TR18 AWY-HI	54.00000 -136.00000	35,000 ft 10,668 m	81	-
HMPTN FIX	B757 AWY-HI	56.19440 -144.00200	35,000 ft 10,668 m	304	-
GRIZZ FIX	B757 AWY-HI	57.11490 -148.50200	35,000 ft 10,668 m	158	-
CJAYY FIX	B757 AWY-HI	57.46410 -150.53100	35,000 ft 10,668 m	69	-
ODK VOR	J123 AWY-HI	57.77500 -152.34000	35,000 ft 10,668 m	61	KODIAK
CHUUK FIX	R341 AWY-HI	58.05750 -165.21500	35,000 ft 10,668 m	410	-
PUGGY FIX	R341 AWY-HI	57.95220 -170.76100	35,000 ft 10,668 m	176	-
HODDY FIX	R341 AWY-HI	57.73770 -174.16800	35,000 ft 10,668 m	109	-
OFORD FIX	R341 AWY-HI	57.53630 -176.80100	35,000 ft 10,668 m	85	-
NATES FIX	R341 AWY-HI	54.93350 171.97500	35,000 ft 10,668 m	405	-
KOKES FIX	- -	54.75000 170.10300	35,000 ft 10,668 m	65	-
DIPNA FIX	B242 AWY-HI	55.03940 167.48800	35,000 ft 10,668 m	91	-
RAPAK FIX	B932 AWY-HI	53.35670 162.31600	35,000 ft 10,668 m	207	-
TUSOM FIX	G73 AWY-HI	53.28890 160.58400	35,000 ft 10,668 m	62	-
OSTUL FIX	G73 AWY-HI	53.26860 160.16100	35,000 ft 10,668 m	15	-
PIRUT FIX	G73 AWY-HI	53.26030 159.99800	35,000 ft 10,668 m	5	-
PETIN FIX	G73 AWY-HI	53.17000 158.45400	35,000 ft 10,668 m	55	-
SAMIK FIX	G73 AWY-HI	53.03890 157.60800	35,000 ft 10,668 m	31	-
UB NDB	G73 AWY-HI	52.81640 156.26800	35,000 ft 10,668 m	50	UST-BOLSHERETSK
LEDRU	B915	52.77000	35,000 ft	17	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	155.78500	10,668 m		
NAMUL	B915	52.63830	35,000 ft	46	-
FIX	AWY-HI	154.52800	10,668 m		
ROMUK	R968	51.17190	35,000 ft	189	-
FIX	AWY-HI	150.00200	10,668 m		
BARUL	R968	50.26640	35,000 ft	159	-
FIX	AWY-HI	146.04500	10,668 m		
ARDOK	R968	49.83860	35,000 ft	68	-
FIX	AWY-HI	144.39900	10,668 m		
DITOR	R968	49.18360	35,000 ft	98	-
FIX	AWY-HI	142.08500	10,668 m		
OLUTA	B233	48.67190	35,000 ft	38	-
FIX	AWY-HI	141.50100	10,668 m		
RUTAL	B233	48.20190	35,000 ft	35	-
FIX	AWY-HI	140.98000	10,668 m		
TUTIB	B233	47.70190	35,000 ft	37	-
FIX	AWY-HI	140.43800	10,668 m		
ODONI	B233	47.12360	35,000 ft	42	-
FIX	AWY-HI	139.82600	10,668 m		
BULOD	B233	46.76190	35,000 ft	26	-
FIX	AWY-HI	139.45300	10,668 m		
TUPNA	B233	46.68190	35,000 ft	5	-
FIX	AWY-HI	139.37100	10,668 m		
NITIN	B233	46.41860	35,000 ft	19	-
FIX	AWY-HI	139.10400	10,668 m		
ERONO	B233	45.44030	35,000 ft	71	-
FIX	AWY-HI	138.13900	10,668 m		
DIRUL	B233	44.82530	35,000 ft	44	-
FIX	AWY-HI	137.55300	10,668 m		
ORTEP	B233	44.27530	35,000 ft	39	-
FIX	AWY-HI	137.04100	10,668 m		
ASMER	B233	43.55190	35,000 ft	51	-
FIX	AWY-HI	136.38100	10,668 m		
ODIBA	B233	43.24190	35,000 ft	22	-
FIX	AWY-HI	136.10300	10,668 m		
MANIT	B233	42.86500	35,000 ft	26	-
FIX	AWY-HI	135.77100	10,668 m		
LURED	B233	42.48330	35,000 ft	27	-
FIX	AWY-HI	135.43900	10,668 m		
NULAR	B233	40.98670	35,000 ft	106	-
FIX	AWY-HI	134.18300	10,668 m		
TONIN	B467	39.33330	35,000 ft	113	-
FIX	AWY-HI	133.00000	10,668 m		
KANSU	B467	38.63330	35,000 ft	48	-
FIX	AWY-HI	132.47500	10,668 m		
MALSO	B467	37.91110	35,000 ft	53	-
FIX	AWY-HI	131.81800	10,668 m		
TENAS	B467	37.63890	35,000 ft	20	-
FIX	AWY-HI	131.57400	10,668 m		
AGSUS	A586	36.75580	35,000 ft	68	-
FIX	AWY-HI	130.67900	10,668 m		
DABIK	A586	36.29530	35,000 ft	36	-
FIX	AWY-HI	130.19500	10,668 m		
BULGA	A586	35.93580	35,000 ft	28	-
FIX	AWY-HI	129.82300	10,668 m		
BEDOM	A586	35.42030	35,000 ft	40	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	129.29800	10,668 m		
PSN	-	35.12250	35,000 ft	23	BUSAN
VOR	-	128.99900	10,668 m		
TOPAX	A586	34.76540	35,000 ft	32	-
FIX	AWY-HI	128.49800	10,668 m		
GOSBO	A586	34.25470	35,000 ft	46	-
FIX	AWY-HI	127.79300	10,668 m		
MAKET	A586	33.91460	35,000 ft	30	-
FIX	AWY-HI	127.33100	10,668 m		
ATINA	A586	33.72230	35,000 ft	17	-
FIX	AWY-HI	127.07300	10,668 m		
CJU	A586	33.38460	35,000 ft	30	JEJU
VOR	AWY-HI	126.62400	10,668 m		
PANSI	Z82	33.00400	35,000 ft	31	-
FIX	AWY-HI	126.20700	10,668 m		
DOMKO	Y711	32.48000	35,000 ft	33	-
FIX	AWY-HI	125.98300	10,668 m		
PONIK	Y711	32.00580	35,000 ft	30	-
FIX	AWY-HI	125.78300	10,668 m		
SADLI	A593	31.83330	35,000 ft	41	-
FIX	AWY-HI	124.99800	10,668 m		
LAMEN	A593	31.61000	24,900 ft	52	-
FIX	AWY-HI	124.00000	7,590 m		
AKARA	A593	31.50000	19,300 ft	26	-
FIX	AWY-HI	123.50000	5,883 m		
ZSPD	-	31.14500	0 ft	90	Shanghai Pudong
APT	-	121.79300	0 m		

## KSEA

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

Elevation: 432 ft / 132 m  
Location: 47.450200 -122.312000  
Magnetic Var: 14.766 E

## METAR

KSEA 011053Z 04010KT 10SM BKN070 BKN085 OVC110 13/05 A2996 RMK A02 SLP149 T01330050

## TAF

KSEA 010851Z 0109/0212 03010KT P6SM BKN080 OVC150 FM011100 05004KT P6SM VCSH OVC030 FM012200 22008KT P6SM OVC035

## 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	165.58		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	165.58		0 m	122 m
34C	151 ft	9,428 ft	0.34	CONCRETE	0 ft	397 ft
	46 m	2,874 m	345.58		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	165.58		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	345.58		428 m
16C	GS	ISZI	111.70 MHz	10 nm	180.67	3.00	418 ft
				19 km	165.91		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	165.91		410 m
34C	GS	ITUC	111.70 MHz	10 nm	0.67	3.00	367 ft
				19 km	345.91		367 m
34L	GS	IBEJ	110.75 MHz	10 nm	0.67	3.00	360 ft
				19 km	345.91		360 m
34R	GS	ISEA	110.30 MHz	10 nm	0.69	2.75	355 ft
				19 km	345.92		355 m

## ZSPD

Region: CHINA  
Timezone: ASIA/SHANGHAI  
Runways: 5

Elevation: 13 ft / 4 m  
Location: 31.141500 121.813000  
Magnetic Var: 6.483 W

## METAR

ZSPD 011100Z 05006MPS 360V080 9999 FEW020 21/16 Q1014 NOSIG

## TAF

TAF TAF ZSPD 010303Z 0106/0212 07004MPS 5000 BR BKN015 TX26/0106Z TX25/0205Z TN17/0121Z BECMG 0206/0207 12004MPS

## Frequencies

REC - 131.45 MHz - ATIS	REC - 127.85 MHz - ATIS
TWR - 118.40 MHz - PUDONG TOWER	TWR - 118.57 MHz - PUDONG TOWER
TWR - 118.80 MHz - PUDONG TOWER	TWR - 124.35 MHz - PUDONG TOWER
TWR - 118.72 MHz - PUDONG SECONDARY TOWER	TWR - 118.32 MHz - PUDONG SECONDARY TOWER
GND - 121.62 MHz - PUDONG GROUND	GND - 121.80 MHz - PUDONG GROUND
GND - 121.87 MHz - PUDONG GROUND	GND - 121.70 MHz - PUDONG GROUND
GND - 122.70 MHz - PUDONG APRON RAMP/TAXI	GND - 122.60 MHz - PUDONG APRON RAMP/TAXI
GND - 122.65 MHz - PUDONG APRON RAMP/TAXI	GND - 122.97 MHz - PUDONG APRON RAMP/TAXI
CLD - 121.95 MHz - PUDONG CLEARANCE DELIVERY	CLD - 121.67 MHz -
APP - 121.10 MHz - SHANGHAI APPROACH	PUDONG SECONDARY CLEARANCE DELIVERY
APP - 120.30 MHz - SHANGHAI APPROACH	APP - 125.40 MHz - SHANGHAI APPROACH
APP - 125.85 MHz - SHANGHAI APPROACH	APP - 125.62 MHz - SHANGHAI APPROACH
APP - 126.65 MHz - SHANGHAI APPROACH	APP - 126.30 MHz - SHANGHAI APPROACH
APP - 121.37 MHz - SHANGHAI APPROACH	APP - 123.80 MHz - SHANGHAI APPROACH
APP - 120.65 MHz - SHANGHAI SECONDARY APPROACH	APP - 119.75 MHz - SHANGHAI SECONDARY APPROACH
APP - 124.05 MHz - SHANGHAI SECONDARY APPROACH	APP - 128.05 MHz - SHANGHAI SECONDARY APPROACH
	APP - 119.20 MHz - SHANGHAI SECONDARY APPROACH

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
15	144 ft	11,192 ft	162.14	CONCRETE	0 ft	197 ft
	44 m	3,411 m	168.62		0 m	60 m
33	144 ft	11,192 ft	342.15	CONCRETE	0 ft	194 ft
	44 m	3,411 m	348.63		0 m	59 m
16L	197 ft	12,505 ft	162.10	CONCRETE	0 ft	0 ft
	60 m	3,812 m	168.59		0 m	0 m
34R	197 ft	12,505 ft	342.11	CONCRETE	0 ft	0 ft
	60 m	3,812 m	348.59		0 m	0 m
16R	197 ft	12,505 ft	162.09	CONCRETE	0 ft	0 ft
	60 m	3,812 m	168.57		0 m	0 m
34L	197 ft	12,505 ft	342.09	CONCRETE	0 ft	0 ft
	60 m	3,812 m	348.58		0 m	0 m
17L	197 ft	13,155 ft	162.08	CONCRETE	0 ft	0 ft
	60 m	4,010 m	168.56		0 m	0 m
35R	197 ft	13,155 ft	342.08	CONCRETE	0 ft	0 ft
	60 m	4,010 m	348.57		0 m	0 m
17R	197 ft	11,183 ft	162.08	CONCRETE	0 ft	0 ft
	60 m	3,409 m	168.57		0 m	0 m
35L	197 ft	11,183 ft	342.09	CONCRETE	0 ft	0 ft
	60 m	3,409 m	348.57		0 m	0 m



## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
16R	DME	IZZ	108.70 MHz	18 nm	-	-	12 ft
				33 km	-		12 m
17L	DME	IPD	110.70 MHz	18 nm	-	-	11 ft
				33 km	-		11 m
34L	DME	IDD	108.30 MHz	18 nm	-	-	12 ft
				33 km	-		12 m
16L	LOC-ILS	IHL	111.50 MHz	18 nm	162.11	-	13 ft
				33 km	168.59		13 m
16R	LOC-ILS	IZZ	108.70 MHz	18 nm	162.09	-	13 ft
				33 km	168.57		13 m
17L	LOC-ILS	IPD	110.70 MHz	18 nm	162.08	-	13 ft
				33 km	168.56		13 m
17R	LOC-ILS	IKM	111.10 MHz	18 nm	162.09	-	13 ft
				33 km	168.57		13 m
34L	LOC-ILS	IDD	108.30 MHz	18 nm	342.09	-	13 ft
				33 km	348.57		13 m
34R	LOC-ILS	IPR	108.90 MHz	18 nm	342.11	-	13 ft
				33 km	348.59		13 m
35L	LOC-ILS	IBD	108.10 MHz	18 nm	342.09	-	13 ft
				33 km	348.57		13 m
35R	LOC-ILS	INN	111.90 MHz	18 nm	342.08	-	13 ft
				33 km	348.56		13 m
16L	GS	IHL	111.50 MHz	10 nm	162.11	3.00	13 ft
				19 km	168.59		13 m
16R	GS	IZZ	108.70 MHz	10 nm	162.09	3.00	13 ft
				19 km	168.57		13 m
17L	GS	IPD	110.70 MHz	10 nm	162.08	3.00	13 ft
				19 km	168.56		13 m
17R	GS	IKM	111.10 MHz	10 nm	162.09	3.00	13 ft
				19 km	168.57		13 m
34L	GS	IDD	108.30 MHz	10 nm	342.09	3.00	13 ft
				19 km	348.57		13 m
34R	GS	IPR	108.90 MHz	10 nm	342.11	3.00	13 ft
				19 km	348.59		13 m
35L	GS	IBD	108.10 MHz	10 nm	342.09	3.00	13 ft
				19 km	348.57		13 m
35R	GS	INN	111.90 MHz	10 nm	342.08	3.00	13 ft
				19 km	348.56		13 m