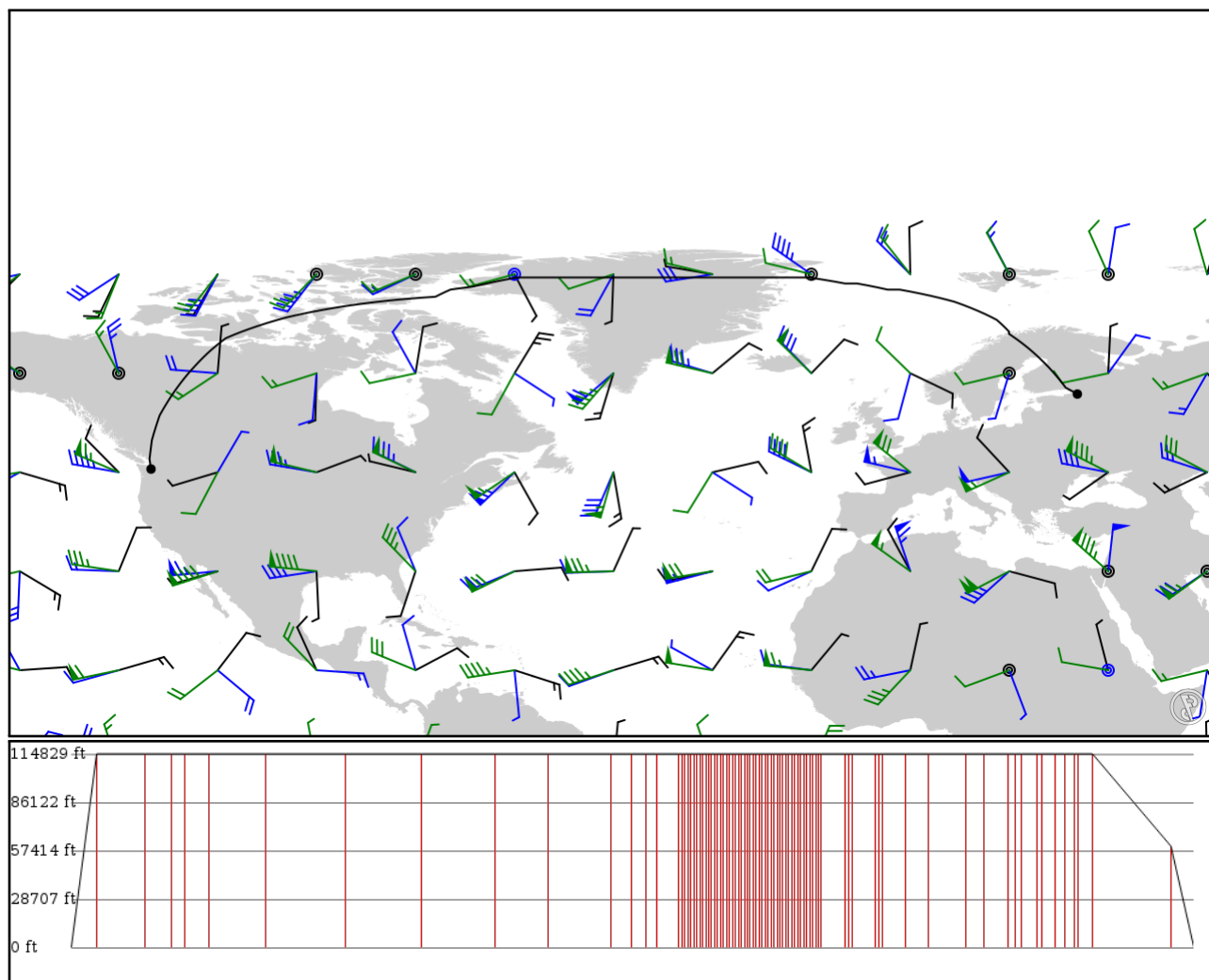


2024/05/10 2017Z

KSEA COGLE **T629** YWL **J534** YXJ **NCAL** LENIM 7700N07300W QQ 7800N06700W 7900N06200W 7900N06100W
7900N06000W 7900N05900W 7900N05800W 7900N05700W 7900N05600W 7900N05500W 7900N05400W 7900N05300W
7900N05200W 7900N05100W 7900N05000W 7900N04900W 7900N04800W 7900N04700W 7900N04600W 7900N04500W
7900N04400W 7900N04300W 7900N04200W 7900N04100W 7900N04000W 7900N03900W 7900N03800W 7900N03700W
7900N03600W 7900N03500W 7900N03400W 7900N03300W 7900N03200W 7900N03100W 7900N03000W 7900N02900W
7900N02800W 7900N02700W 7900N02600W 7900N02500W 7900N02400W 7900N02300W 7900N02200W 7900N02100W
7900N02000W 7900N01900W 7900N01800W 7900N01700W 7900N01600W 7900N01500W 7900N01400W 7800N0800W
7800N0700W 7800N0600W 7700N0100W 7700N0000E 7700N0100E 7600N0600E 7500N01000E 7300N01500E VAVAD
P600 TRO **P853** RATLA ULLI

4335.22 nm / 8028.83 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	-	47.45020	0 ft	-	Seattle-Tacoma Intl
APT	-	-122.31200	0 m		
COGLE	-	49.07580	35,000 ft	98	-
FIX	-	-122.56400	10,668 m		
YWL	T629	52.23710	35,000 ft	190	WILLIAMS LAKE
VOR	AWY-LO	-122.16900	10,668 m		
HUTON	J534	53.85690	35,000 ft	98	-
FIX	AWY-HI	-121.69000	10,668 m		
STAHL	J534	54.71670	35,000 ft	52	-
FIX	AWY-HI	-121.42000	10,668 m		
YXJ	J534	56.28420	35,000 ft	95	FORT SAINT JOHN
VOR	AWY-HI	-120.89600	10,668 m		
GOTOL	NCAL	59.74670	35,000 ft	218	-
FIX	AWY-HI	-118.78800	10,668 m		
TATMA	NCAL	64.50000	35,000 ft	304	-
FIX	AWY-HI	-115.00000	10,668 m		
110L	NCAL	69.00000	35,000 ft	294	-
FIX	AWY-HI	-110.00000	10,668 m		
100L	NCAL	72.41670	35,000 ft	284	-
FIX	AWY-HI	-100.00000	10,668 m		
MERGI	NCAL	74.33330	35,000 ft	206	-
FIX	AWY-HI	-90.00000	10,668 m		
LENIM	NCAL	75.82720	35,000 ft	241	-
FIX	AWY-HI	-75.45320	10,668 m		
7700N07300W	-	77.00000	35,000 ft	78	-
LATLON	-	-73.00000	10,668 m		
QQ	-	77.47910	35,000 ft	56	QAANAAQ
NDB	-	-69.32590	10,668 m		
7800N06700W	-	78.00000	35,000 ft	43	-
LATLON	-	-67.00000	10,668 m		
7900N06200W	-	79.00000	35,000 ft	84	-
LATLON	-	-62.00000	10,668 m		
7900N06100W	-	79.00000	35,000 ft	11	-
LATLON	-	-61.00000	10,668 m		
7900N06000W	-	79.00000	35,000 ft	11	-
LATLON	-	-60.00000	10,668 m		
7900N05900W	-	79.00000	35,000 ft	11	-
LATLON	-	-59.00000	10,668 m		
7900N05800W	-	79.00000	35,000 ft	11	-
LATLON	-	-58.00000	10,668 m		
7900N05700W	-	79.00000	35,000 ft	11	-
LATLON	-	-57.00000	10,668 m		
7900N05600W	-	79.00000	35,000 ft	11	-
LATLON	-	-56.00000	10,668 m		
7900N05500W	-	79.00000	35,000 ft	11	-
LATLON	-	-55.00000	10,668 m		
7900N05400W	-	79.00000	35,000 ft	11	-
LATLON	-	-54.00000	10,668 m		
7900N05300W	-	79.00000	35,000 ft	11	-
LATLON	-	-53.00000	10,668 m		
7900N05200W	-	79.00000	35,000 ft	11	-
LATLON	-	-52.00000	10,668 m		
7900N05100W	-	79.00000	35,000 ft	11	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
LATLON	-	-51.00000	10,668 m		
7900N05000W	-	79.00000	35,000 ft	11	-
LATLON	-	-50.00000	10,668 m		
7900N04900W	-	79.00000	35,000 ft	11	-
LATLON	-	-49.00000	10,668 m		
7900N04800W	-	79.00000	35,000 ft	11	-
LATLON	-	-48.00000	10,668 m		
7900N04700W	-	79.00000	35,000 ft	11	-
LATLON	-	-47.00000	10,668 m		
7900N04600W	-	79.00000	35,000 ft	11	-
LATLON	-	-46.00000	10,668 m		
7900N04500W	-	79.00000	35,000 ft	11	-
LATLON	-	-45.00000	10,668 m		
7900N04400W	-	79.00000	35,000 ft	11	-
LATLON	-	-44.00000	10,668 m		
7900N04300W	-	79.00000	35,000 ft	11	-
LATLON	-	-43.00000	10,668 m		
7900N04200W	-	79.00000	35,000 ft	11	-
LATLON	-	-42.00000	10,668 m		
7900N04100W	-	79.00000	35,000 ft	11	-
LATLON	-	-41.00000	10,668 m		
7900N04000W	-	79.00000	35,000 ft	11	-
LATLON	-	-40.00000	10,668 m		
7900N03900W	-	79.00000	35,000 ft	11	-
LATLON	-	-39.00000	10,668 m		
7900N03800W	-	79.00000	35,000 ft	11	-
LATLON	-	-38.00000	10,668 m		
7900N03700W	-	79.00000	35,000 ft	11	-
LATLON	-	-37.00000	10,668 m		
7900N03600W	-	79.00000	35,000 ft	11	-
LATLON	-	-36.00000	10,668 m		
7900N03500W	-	79.00000	35,000 ft	11	-
LATLON	-	-35.00000	10,668 m		
7900N03400W	-	79.00000	35,000 ft	11	-
LATLON	-	-34.00000	10,668 m		
7900N03300W	-	79.00000	35,000 ft	11	-
LATLON	-	-33.00000	10,668 m		
7900N03200W	-	79.00000	35,000 ft	11	-
LATLON	-	-32.00000	10,668 m		
7900N03100W	-	79.00000	35,000 ft	11	-
LATLON	-	-31.00000	10,668 m		
7900N03000W	-	79.00000	35,000 ft	11	-
LATLON	-	-30.00000	10,668 m		
7900N02900W	-	79.00000	35,000 ft	11	-
LATLON	-	-29.00000	10,668 m		
7900N02800W	-	79.00000	35,000 ft	11	-
LATLON	-	-28.00000	10,668 m		
7900N02700W	-	79.00000	35,000 ft	11	-
LATLON	-	-27.00000	10,668 m		
7900N02600W	-	79.00000	35,000 ft	11	-
LATLON	-	-26.00000	10,668 m		
7900N02500W	-	79.00000	35,000 ft	11	-
LATLON	-	-25.00000	10,668 m		
7900N02400W	-	79.00000	35,000 ft	11	-
LATLON	-	-24.00000	10,668 m		
7900N02300W	-	79.00000	35,000 ft	11	-

Ident Type	Via		Lat Lon	Alt	Dist (nm)		Name
LATLON	-		-23.00000	10,668 m			
7900N02200W	-		79.00000	35,000 ft	11	-	
LATLON	-		-22.00000	10,668 m			
7900N02100W	-		79.00000	35,000 ft	11	-	
LATLON	-		-21.00000	10,668 m			
7900N02000W	-		79.00000	35,000 ft	11	-	
LATLON	-		-20.00000	10,668 m			
7900N01900W	-		79.00000	35,000 ft	11	-	
LATLON	-		-19.00000	10,668 m			
7900N01800W	-		79.00000	35,000 ft	11	-	
LATLON	-		-18.00000	10,668 m			
7900N01700W	-		79.00000	35,000 ft	11	-	
LATLON	-		-17.00000	10,668 m			
7900N01600W	-		79.00000	35,000 ft	11	-	
LATLON	-		-16.00000	10,668 m			
7900N01500W	-		79.00000	35,000 ft	11	-	
LATLON	-		-15.00000	10,668 m			
7900N01400W	-		79.00000	35,000 ft	11	-	
LATLON	-		-14.00000	10,668 m			
7800N0800W	-		78.00000	35,000 ft	93	-	
LATLON	-		-8.00000	10,668 m			
7800N0700W	-		78.00000	35,000 ft	12	-	
LATLON	-		-7.00000	10,668 m			
7800N0600W	-		78.00000	35,000 ft	12	-	
LATLON	-		-6.00000	10,668 m			
7700N0100W	-		77.00000	35,000 ft	88	-	
LATLON	-		-1.00000	10,668 m			
7700N0000E	-		77.00000	35,000 ft	13	-	
LATLON	-		0.00000	10,668 m			
7700N0100E	-		77.00000	35,000 ft	13	-	
LATLON	-		1.00000	10,668 m			
7600N0600E	-		76.00000	35,000 ft	92	-	
LATLON	-		6.00000	10,668 m			
7500N01000E	-		75.00000	35,000 ft	84	-	
LATLON	-		10.00000	10,668 m			
7300N01500E	-		73.00000	35,000 ft	145	-	
LATLON	-		15.00000	10,668 m			
VAVAD	-		72.00000	35,000 ft	70	-	
FIX	-		17.00000	10,668 m			
KOMUX	P600		70.55680	35,000 ft	91	-	
FIX	AWY-HI		18.54500	10,668 m			
LOMVI	P600		70.08330	35,000 ft	29	-	
FIX	AWY-HI		19.00230	10,668 m			
TRO	P600		69.70280	35,000 ft	22		TROMSO
VOR	AWY-HI		18.99680	10,668 m			
RIXEM	P853		68.79110	35,000 ft	61	-	
FIX	AWY-HI		20.32470	10,668 m			
NOVRI	P853		68.54500	35,000 ft	16	-	
FIX	AWY-HI		20.66220	10,668 m			
EMLET	P853		67.75000	35,000 ft	53	-	
FIX	AWY-HI		21.69830	10,668 m			
SOVEV	P853	67.21330	35,000 ft	35	-		
FIX	AWY-HI	22.35440	10,668 m				
ABALA	P853	66.65820	35,000 ft	36	-		
FIX	AWY-HI	23.00000	10,668 m				
ASKEB	P853	66.40620	35,000 ft	16	-		

Ident Type	Via		Lat Lon	Alt		Dist (nm)	Name
FIX	AWY-HI	23.28270	10,668 m				
BEXUL	P853	65.59280	35,000 ft	53	-		
FIX	AWY-HI	24.15390	10,668 m				
RATLA	P853	60.85830	18,300 ft	305	-		
FIX	AWY-HI	28.33830	5,578 m				
ULLI	-	59.80030	0 ft	85	Saint Petersburg Pulkovo Intl / Fedor M. Dostoevsky		
APT	-	30.26250	0 m				

KSEA

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

Elevation: 432 ft / 132 m
Location: 47.450200 -122.312000
Magnetic Var: 14.774 E

METAR

KSEA 101953Z 01006KT 10SM SCT250 25/07 A3011 RMK A02 SLP199 T02500072

TAF

TAF KSEA 101720Z 1018/1124 36009KT P6SM SKC FM102100 33008KT P6SM SKC FM110600 03004KT P6SM SKC FM111800 33007KT P

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	165.57		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	165.90		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	345.91		355 m

ULLI

Region: RUSSIA
Timezone: EUROPE/MOSCOW
Runways: 2

Elevation: 79 ft / 24 m
Location: 59.800300 30.262500
Magnetic Var: 11.654 E

METAR

ULLI 102000Z 25003MPS 9999 SCT021CB BKN040 04/01 Q1010 R28L/290050 NOSIG

TAF

TAF ULLI 101654Z 1018/1118 33005G10MPS 6000 BKN016 TEMPO 1021/1103 3100 -SHRA BKN010 BKN016CB BECMG 1113/1114 0100

Frequencies

REC - 127.30 MHz - PULKOVO ATIS	REC - 127.40 MHz - PULKOVO ATIS
TWR - 118.70 MHz - PULKOVO TOWER	TWR - 118.10 MHz - PULKOVO TOWER
TWR - 133.50 MHz - PULKOVO TOWER	GND - 121.70 MHz - PULKOVO GROUND
GND - 119.00 MHz - PULKOVO RAMP	GND - 120.90 MHz - PULKOVO APRON
CLD - 121.90 MHz - PULKOVO DELIVERY	APP - 125.20 MHz - PETERSBURG APPROACH
APP - 119.30 MHz - PETERSBURG APPROACH	APP - 120.30 MHz - PETERSBURG KRUG RADAR
DEP - 120.30 MHz - PETERSBURG KRUG RADAR	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
10R	197 ft	12,379 ft	106.40	CONCRETE	0 ft	0 ft
	60 m	3,773 m	94.75		0 m	0 m
28L	197 ft	12,379 ft	286.46	CONCRETE	0 ft	0 ft
	60 m	3,773 m	274.80		0 m	0 m
10L	197 ft	11,132 ft	106.51	CONCRETE	0 ft	0 ft
	60 m	3,393 m	94.86		0 m	0 m
28R	197 ft	11,132 ft	286.56	CONCRETE	0 ft	0 ft
	60 m	3,393 m	274.91		0 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
10L	LOC-ILS	IPU	110.50 MHz	18 nm	106.54	-	79 ft
				33 km	94.89		79 m
10R	LOC-ILS	IPK	111.90 MHz	18 nm	106.43	-	79 ft
				33 km	94.78		79 m
28L	LOC-ILS	IPO	108.90 MHz	18 nm	286.43	-	79 ft
				33 km	274.78		79 m
28R	LOC-ILS	IPL	111.30 MHz	18 nm	286.54	-	79 ft
				33 km	274.89		79 m
10L	GS	IPU	110.50 MHz	10 nm	106.54	3.00	79 ft
				19 km	94.89		79 m
10R	GS	IPK	111.90 MHz	10 nm	106.43	3.00	79 ft
				19 km	94.78		79 m
28L	GS	IPO	108.90 MHz	10 nm	286.43	3.00	79 ft
				19 km	274.78		79 m
28R	GS	IPL	111.30 MHz	10 nm	286.54	3.00	79 ft
				19 km	274.89		79 m