

KBIL

Billings Logan Intl

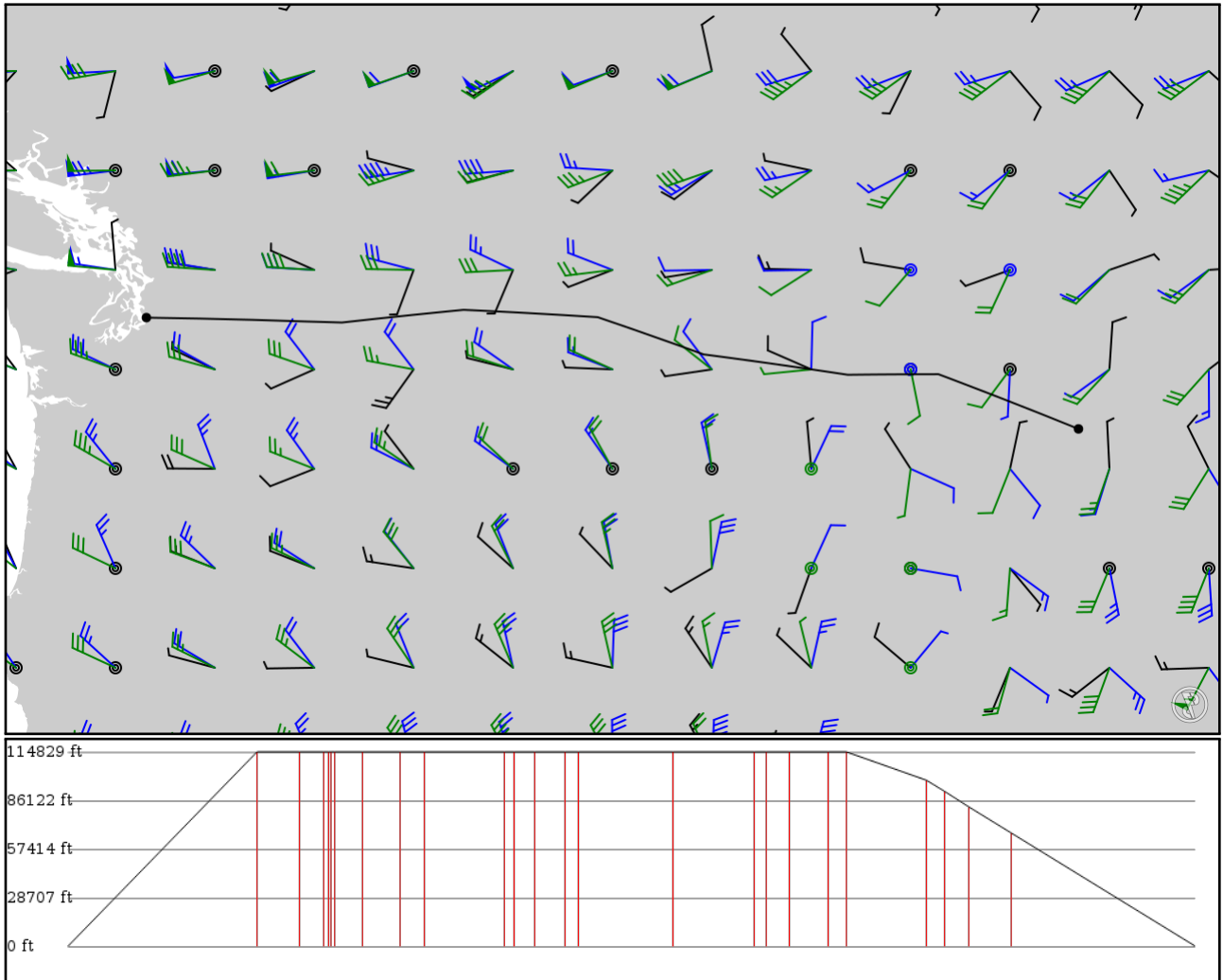
KSEA

Seattle-Tacoma Intl

2024/05/06 0325Z

KBIL YOSWO **V247** HLN **V2** GEG **V120** OZALI KSEA

587.09 nm / 1087.29 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: no
- Use PACOTS: no
- Use low airways: yes
- Use high airways: no

Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
KBIL APT	-	45.80770 -108.54600	0 ft 0 m	-	Billings Logan Intl
YOSWO FIX	-	46.61510 -110.61400	35,000 ft 10,668 m	98	-
HEXOL FIX	V247 AWY-LO	46.61360 -111.15600	35,000 ft 10,668 m	22	-
WAUTS FIX	V247 AWY-LO	46.61170 -111.45500	35,000 ft 10,668 m	12	-
FALDE FIX	V247 AWY-LO	46.61120 -111.52400	35,000 ft 10,668 m	2	-
ICUBI FIX	V247 AWY-LO	46.61100 -111.54300	35,000 ft 10,668 m	0	-
FAVOX FIX	V247 AWY-LO	46.61060 -111.59100	35,000 ft 10,668 m	1	-
HLN VOR	V247 AWY-LO	46.60680 -111.95300	35,000 ft 10,668 m	14	HELENA
RICHD FIX	V2 AWY-LO	46.67630 -112.41900	35,000 ft 10,668 m	19	-
PIXXI FIX	V2 AWY-LO	46.71910 -112.71300	35,000 ft 10,668 m	12	-
BAMBE FIX	V2 AWY-LO	46.85720 -113.70200	35,000 ft 10,668 m	41	-
SPUNK FIX	V2 AWY-LO	46.87320 -113.82100	35,000 ft 10,668 m	4	-
MSO VOR	V2 AWY-LO	46.90800 -114.08400	35,000 ft 10,668 m	10	MISSOULA
ALTON FIX	V2 AWY-LO	47.03190 -114.42800	35,000 ft 10,668 m	15	-
LIBRE FIX	V2 AWY-LO	47.08580 -114.58000	35,000 ft 10,668 m	7	-
MLP VOR	V2 AWY-LO	47.45690 -115.64600	35,000 ft 10,668 m	48	MULLAN PASS
HILIE FIX	V2 AWY-LO	47.51810 -116.69000	35,000 ft 10,668 m	42	-
HIPRR FIX	V2 AWY-LO	47.52620 -116.84000	35,000 ft 10,668 m	6	-
ROPES FIX	V2 AWY-LO	47.54140 -117.13600	35,000 ft 10,668 m	12	-
GEG VOR	V2 AWY-LO	47.56490 -117.62700	35,000 ft 10,668 m	19	SPOKANE
EPAFY FIX	V120 AWY-LO	47.54130 -117.87000	35,000 ft 10,668 m	9	-
OWOSE FIX	V120 AWY-LO	47.43700 -118.88600	29,900 ft 9,114 m	41	-
WIPES FIX	V120 AWY-LO	47.41290 -119.10800	27,900 ft 8,504 m	9	-
EPH VOR	V120 AWY-LO	47.37790 -119.42400	25,100 ft 7,650 m	13	EPHRATA
OZALI FIX	V120 AWY-LO	47.39340 -119.96300	20,400 ft 6,218 m	21	-
KSEA APT	-	47.45020 -122.31200	0 ft 0 m	95	Seattle-Tacoma Intl

KBIL

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

Elevation: 3,662 ft / 1,116 m
Location: 45.807700 -108.546000
Magnetic Var: 9.957 E

METAR

KBIL 060253Z 22006KT 10SM FEW070 BKN110 BKN220 12/07 A2947 RMK A02 SLP975 VIRGA DSNT NW-NE 60005 T01170072 56012

TAF

TAF AMD KBIL 060015Z 0600/0624 28010G24KT P6SM SCT050 BKN100 TEMPO 0600/0602 5SM -RA BR FM060200 26010KT P6SM VCSH

Frequencies

COM - 122.95 MHz - BILLINGS UNICOM	REC - 126.30 MHz - ATIS
GND - 121.90 MHz - BILLINGS GROUND	TWR - 127.20 MHz - BILLINGS TOWER (1)
TWR - 257.80 MHz - BILLINGS TOWER (2)	DEP - 119.20 MHz - BILLINGS DEPARTURE (EAST)
APP - 119.20 MHz - BILLINGS APPROACH (EAST)	APP - 120.50 MHz - BILLINGS APPROACH (WEST)
DEP - 120.50 MHz - BILLINGS DEPARTURE (WEST)	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
10L	150 ft	10,493 ft	111.77	ASPHALT	0 ft	200 ft
	46 m	3,198 m	101.82		0 m	61 m
28R	150 ft	10,493 ft	291.80	ASPHALT	0 ft	200 ft
	46 m	3,198 m	281.84		0 m	61 m
07	75 ft	5,488 ft	83.97	ASPHALT	0 ft	0 ft
	23 m	1,673 m	74.01		0 m	0 m
25	75 ft	5,488 ft	263.99	ASPHALT	0 ft	0 ft
	23 m	1,673 m	254.03		0 m	0 m
10R	75 ft	3,793 ft	111.70	ASPHALT	0 ft	0 ft
	23 m	1,156 m	101.74		0 m	0 m
28L	75 ft	3,793 ft	291.71	ASPHALT	0 ft	0 ft
	23 m	1,156 m	281.75		0 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
28R	DME	IBMO	111.50 MHz	18 nm	-	-	3,649 ft
				33 km	-		3,649 m
10L	LOC-ILS	IBIL	110.30 MHz	18 nm	111.80	-	3,492 ft
				33 km	101.85		3,492 m
28R	LOC-ILS	IBMO	111.50 MHz	18 nm	291.77	-	3,584 ft
				33 km	281.81		3,584 m
10L	GS	IBIL	110.30 MHz	10 nm	112.57	3.00	3,571 ft
				19 km	102.61		3,571 m
28R	GS	IBMO	111.50 MHz	10 nm	292.57	3.00	3,488 ft
				19 km	282.61		3,488 m

KSEA

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

Elevation: 432 ft / 132 m
Location: 47.450200 -122.312000
Magnetic Var: 14.776 E

METAR

KSEA 060253Z 21011G22KT 10SM FEW040 BKN075 BKN110 09/06 A2983 RMK A02 PK WND 22026/0204 SLP110 T00940061 51015

TAF

KSEA 060258Z 0603/0706 22012G22KT P6SM VCSH FEW040 BKN080 FM060500 19015G23KT P6SM VCSH OVC012 FM061300 22016KT 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	165.90		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