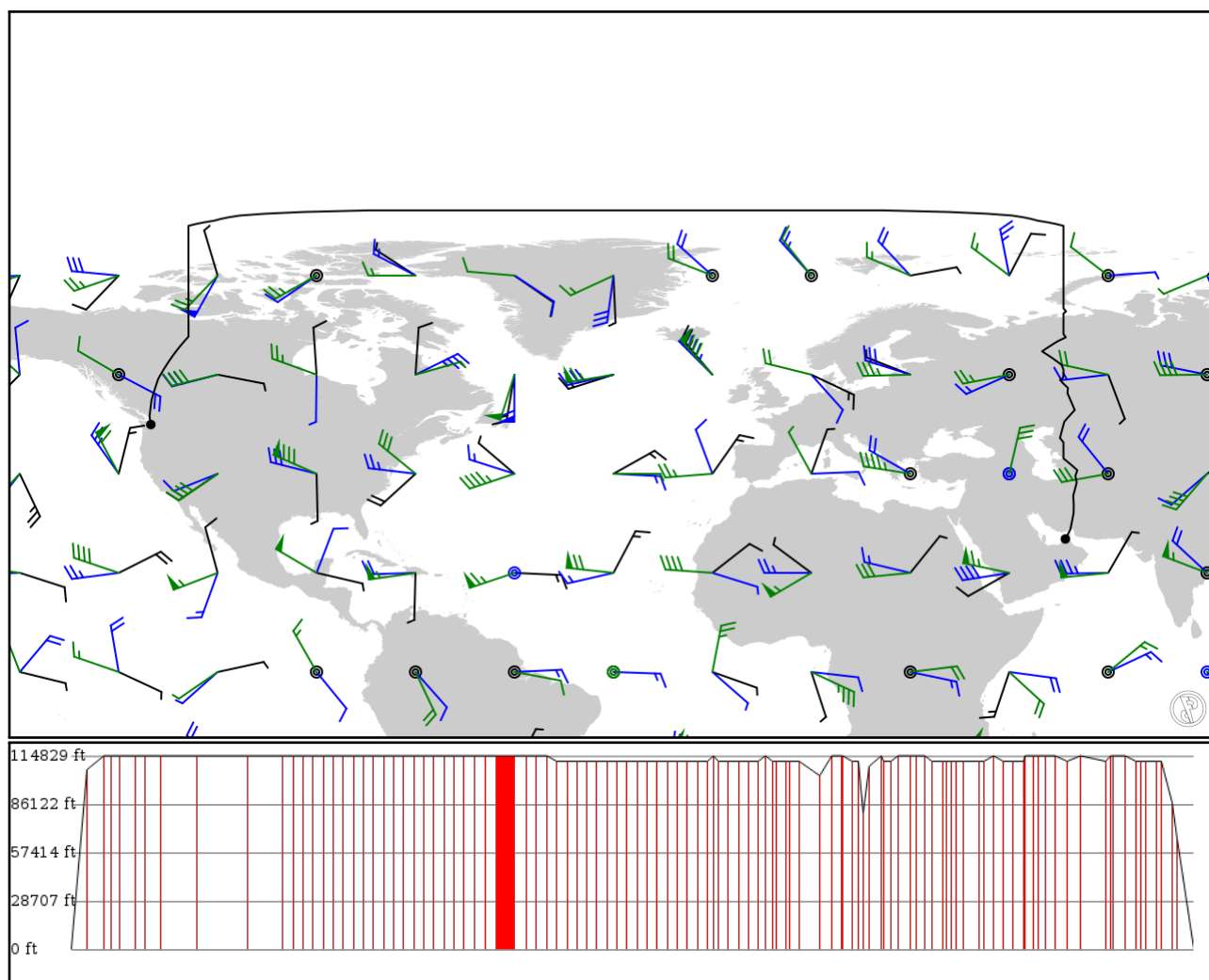


2024/05/09 0234Z

KSEA HUH04 **J534** YXJ **NCAL** TATMA 6800N11500W 6900N11500W 7000N11500W 7100N11500W 7200N11500W
7300N11500W 7400N11500W 7500N11500W 7600N11500W 7700N11500W 7800N11500W 7900N11500W 8000N11500W
8100N11500W 8200N11500W 8300N11500W 8400N11500W 8500N11500W 8600N11500W 8700N11000W 8800N10500W
8900N08000W 8900N07500W 8900N07000W 8900N06500W 8900N06000W 8900N05500W 8900N05000W 8900N04500W
8900N04000W 8900N03500W 8900N03000W 8900N02500W 8900N02000W 8900N01500W 8900N01000W 8900N0500W
8900N0000E 8900N0500E 8900N01000E 8900N01500E 8900N02000E 8800N04500E 8700N05000E 8600N05500E
8500N05500E 8400N05500E 8300N05500E 8200N05500E 8100N05500E 8000N05500E 7900N05500E 7800N05500E
7700N05500E 7600N05500E 7500N05500E 7400N05500E 7300N05500E 7200N05500E 7100N05500E 7000N05500E
IRDIS 6900N05500E 6800N05500E 6700N05500E 6600N05500E 6500N05500E DILUN **B152** UUYU **B212** LEBMI **B957**
MN 5800N05500E 5700N05500E TADOS **G351** RG **B366** VL **A360** AKB **A357** KODUM **W76** BODSI 4400N05500E
4300N05500E 4200N05500E 4100N05500E BEGLI **A87** MAMED BRD SBZ **A419** MOBET OMDB

6706.70 nm / 12420.80 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: no
- Use high airways: yes

Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
KSEA	-	47.45019	0 ft	-	Seattle Tacoma Intl
APT	-	-122.31232	0 m		
HUH04	-	49.00513	32,500 ft	93	-
FIX	-	-122.57290	9,906 m		
SEATN	J534	50.70358	35,000 ft	102	-
FIX	AWY-HI	-122.36725	10,668 m		
KAN00	J534	51.47131	35,000 ft	46	-
FIX	AWY-HI	-122.26964	10,668 m		
YWL	J534	52.23711	35,000 ft	46	WILLIAMS LAKE VOR-DME
VOR	AWY-HI	-122.16886	10,668 m		
HUTON	J534	53.85694	35,000 ft	98	-
FIX	AWY-HI	-121.69000	10,668 m		
STAHL	J534	54.71622	35,000 ft	52	-
FIX	AWY-HI	-121.41956	10,668 m		
YXJ	J534	56.28411	35,000 ft	95	FORT SAINT JOHN VOR-DME
VOR	AWY-HI	-120.89564	10,668 m		
VERKA	NCAL	59.74667	35,000 ft	218	-
FIX	AWY-HI	-118.78833	10,668 m		
TATMA	NCAL	64.50000	35,000 ft	304	-
FIX	AWY-HI	-115.00000	10,668 m		
6800N11500W	-	68.00000	35,000 ft	210	-
LATLON	-	-115.00000	10,668 m		
6900N11500W	-	69.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
7000N11500W	-	70.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
7100N11500W	-	71.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
7200N11500W	-	72.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
7300N11500W	-	73.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
7400N11500W	-	74.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
7500N11500W	-	75.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
7600N11500W	-	76.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
7700N11500W	-	77.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
7800N11500W	-	78.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
7900N11500W	-	79.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
8000N11500W	-	80.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
8100N11500W	-	81.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
8200N11500W	-	82.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
8300N11500W	-	83.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
8400N11500W	-	84.00000	35,000 ft	60	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
LATLON	-	-115.00000	10,668 m		
8500N11500W	-	85.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
8600N11500W	-	86.00000	35,000 ft	60	-
LATLON	-	-115.00000	10,668 m		
8700N11000W	-	87.00000	35,000 ft	62	-
LATLON	-	-110.00000	10,668 m		
8800N10500W	-	88.00000	35,000 ft	61	-
LATLON	-	-105.00000	10,668 m		
8900N08000W	-	89.00000	35,000 ft	70	-
LATLON	-	-80.00000	10,668 m		
8900N07500W	-	89.00000	35,000 ft	5	-
LATLON	-	-75.00000	10,668 m		
8900N07000W	-	89.00000	35,000 ft	5	-
LATLON	-	-70.00000	10,668 m		
8900N06500W	-	89.00000	35,000 ft	5	-
LATLON	-	-65.00000	10,668 m		
8900N06000W	-	89.00000	35,000 ft	5	-
LATLON	-	-60.00000	10,668 m		
8900N05500W	-	89.00000	35,000 ft	5	-
LATLON	-	-55.00000	10,668 m		
8900N05000W	-	89.00000	35,000 ft	5	-
LATLON	-	-50.00000	10,668 m		
8900N04500W	-	89.00000	35,000 ft	5	-
LATLON	-	-45.00000	10,668 m		
8900N04000W	-	89.00000	35,000 ft	5	-
LATLON	-	-40.00000	10,668 m		
8900N03500W	-	89.00000	35,000 ft	5	-
LATLON	-	-35.00000	10,668 m		
8900N03000W	-	89.00000	35,000 ft	5	-
LATLON	-	-30.00000	10,668 m		
8900N02500W	-	89.00000	35,000 ft	5	-
LATLON	-	-25.00000	10,668 m		
8900N02000W	-	89.00000	35,000 ft	5	-
LATLON	-	-20.00000	10,668 m		
8900N01500W	-	89.00000	35,000 ft	5	-
LATLON	-	-15.00000	10,668 m		
8900N01000W	-	89.00000	35,000 ft	5	-
LATLON	-	-10.00000	10,668 m		
8900N0500W	-	89.00000	35,000 ft	5	-
LATLON	-	-5.00000	10,668 m		
8900N0000E	-	89.00000	35,000 ft	5	-
LATLON	-	0.00000	10,668 m		
8900N0500E	-	89.00000	35,000 ft	5	-
LATLON	-	5.00000	10,668 m		
8900N01000E	-	89.00000	35,000 ft	5	-
LATLON	-	10.00000	10,668 m		
8900N01500E	-	89.00000	35,000 ft	5	-
LATLON	-	15.00000	10,668 m		
8900N02000E	-	89.00000	35,000 ft	5	-
LATLON	-	20.00000	10,668 m		
8800N04500E	-	88.00000	35,000 ft	70	-
LATLON	-	45.00000	10,668 m		
8700N05000E	-	87.00000	35,000 ft	61	-
LATLON	-	50.00000	10,668 m		
8600N05500E	-	86.00000	35,000 ft	62	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
LATLON	-	55.00000	10,668 m		
8500N05500E	-	85.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
8400N05500E	-	84.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
8300N05500E	-	83.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
8200N05500E	-	82.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
8100N05500E	-	81.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
8000N05500E	-	80.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
7900N05500E	-	79.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
7800N05500E	-	78.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
7700N05500E	-	77.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
7600N05500E	-	76.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
7500N05500E	-	75.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
7400N05500E	-	74.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
7300N05500E	-	73.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
7200N05500E	-	72.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
7100N05500E	-	71.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
7000N05500E	-	70.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
IRDIS	-	69.39833	35,000 ft	37	-
FIX	-	55.50833	10,668 m		
6900N05500E	-	69.00000	34,000 ft	26	-
LATLON	-	55.00000	10,363 m		
6800N05500E	-	68.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
6700N05500E	-	67.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
6600N05500E	-	66.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
6500N05500E	-	65.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
DILUN	-	64.37167	35,000 ft	39	-
FIX	-	55.46167	10,668 m		
MAMUG	B152	63.82528	34,000 ft	44	-
FIX	AWY-HI	54.32111	10,363 m		
UHT	B152	63.56056	34,000 ft	21	UKHTA VOR-DME
VOR	AWY-HI	53.79389	10,363 m		
MAKUS	B152	62.74500	34,000 ft	60	-
FIX	AWY-HI	52.49167	10,363 m		
PEKIL	B152	62.43000	34,000 ft	23	-
FIX	AWY-HI	51.99500	10,363 m		
UUYV	B152	61.64705	34,000 ft	57	SYKTYVKAR

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
APT	AWY-HI	50.84505	10,363 m		
SOLIK	B212	60.00000	31,400 ft	122	-
FIX	AWY-HI	53.33333	9,571 m		
LEBMI	B212	59.01694	35,000 ft	71	-
FIX	AWY-HI	54.64806	10,668 m		
MN	B957	58.16667	35,000 ft	52	MENDELEYEVO NDB
NDB	AWY-HI	54.97833	10,668 m		
5800N05500E	-	58.00000	35,000 ft	10	-
LATLON	-	55.00000	10,668 m		
5700N05500E	-	57.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
TADOS	-	56.49194	34,000 ft	30	-
FIX	-	54.87500	10,363 m		
NOGRI	G351	56.10028	24,600 ft	29	-
FIX	AWY-HI	54.34833	7,498 m		
DT	G351	55.47583	33,100 ft	41	DYURTYULI NDB
NDB	AWY-HI	54.89361	10,089 m		
RG	G351	54.53972	35,000 ft	65	UFA VOR-DME
VOR	AWY-HI	55.88667	10,668 m		
ITUNA	B366	54.20028	34,000 ft	20	-
FIX	AWY-HI	55.83167	10,363 m		
SOKMO	B366	53.51694	34,000 ft	41	-
FIX	AWY-HI	55.78167	10,363 m		
MAGDU	B366	52.85694	35,000 ft	41	-
FIX	AWY-HI	56.07694	10,668 m		
VL	B366	51.63333	35,000 ft	75	ZHELTOYE NDB
NDB	AWY-HI	56.60000	10,668 m		
MULTA	A360	51.07833	35,000 ft	34	-
FIX	AWY-HI	56.84500	10,668 m		
AKB	A360	50.26306	35,000 ft	50	AKTYUBINSK VOR-DME
VOR	AWY-HI	57.18389	10,668 m		
BOLGO	A357	49.66917	34,000 ft	41	-
FIX	AWY-HI	56.63333	10,363 m		
KURUL	A357	48.76361	34,000 ft	62	-
FIX	AWY-HI	55.82361	10,363 m		
BILGA	A357	48.43917	34,000 ft	22	-
FIX	AWY-HI	55.54167	10,363 m		
KODUM	A357	48.00000	34,000 ft	30	-
FIX	AWY-HI	55.16667	10,363 m		
ODPUT	W76	47.49722	34,000 ft	30	-
FIX	AWY-HI	55.02500	10,363 m		
PEMOL	W76	46.85944	34,000 ft	38	-
FIX	AWY-HI	54.84944	10,363 m		
KULAG	W76	45.25889	34,000 ft	97	-
FIX	AWY-HI	54.42667	10,363 m		
BODSI	W76	44.84278	34,000 ft	25	-
FIX	AWY-HI	54.32056	10,363 m		
4400N05500E	-	44.00000	35,000 ft	58	-
LATLON	-	55.00000	10,668 m		
4300N05500E	-	43.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
4200N05500E	-	42.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
4100N05500E	-	41.00000	34,000 ft	60	-
LATLON	-	55.00000	10,363 m		
Begli	-	40.87500	35,000 ft	7	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	-	55.01500	10,668 m		
IDRIS	A87	40.26833	35,000 ft	49	-
FIX	AWY-HI	55.75000	10,668 m		
NONIK	A87	39.86500	35,000 ft	32	-
FIX	AWY-HI	56.23167	10,668 m		
KEKAL	A87	39.36833	35,000 ft	40	-
FIX	AWY-HI	56.80833	10,668 m		
MAMED	A87	38.58000	35,000 ft	63	-
FIX	AWY-HI	57.70000	10,668 m		
BRD	-	37.48906	34,000 ft	68	BOJNORD NDB
NDB	-	57.30569	10,363 m		
SBZ	-	36.16983	35,000 ft	80	SABZEVAR VOR-DME
VOR	-	57.57097	10,668 m		
TBS	A419	33.66400	34,000 ft	154	TABAS NDB-DME
NDB	AWY-HI	56.89964	10,363 m		
GEVOR	A419	33.23750	35,000 ft	25	-
FIX	AWY-HI	56.92139	10,668 m		
SIMDU	A419	32.94667	35,000 ft	17	-
FIX	AWY-HI	56.93639	10,668 m		
DAR	A419	31.78317	35,000 ft	69	DARBAND VOR-DME
VOR	AWY-HI	56.99456	10,668 m		
ALGUV	A419	30.75194	34,000 ft	61	-
FIX	AWY-HI	56.97194	10,363 m		
KER	A419	30.25211	34,000 ft	30	KERMAN VOR-DME
VOR	AWY-HI	56.96119	10,363 m		
ALMEK	A419	29.75944	34,000 ft	30	-
FIX	AWY-HI	56.86306	10,363 m		
NANTO	A419	28.68806	34,000 ft	65	-
FIX	AWY-HI	56.65778	10,363 m		
TAVNO	A419	28.18306	34,000 ft	30	-
FIX	AWY-HI	56.55472	10,363 m		
BND	A419	27.19706	26,500 ft	60	BANDAR ABBASS VOR-DME
VOR	AWY-HI	56.36678	8,077 m		
MOBET	A419	26.73500	20,100 ft	30	-
FIX	AWY-HI	56.15222	6,126 m		
OMDB	-	25.25491	0 ft	98	DUBAI INTL
APT	-	55.36426	0 m		

KSEA

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

Elevation: 432 ft / 132 m
Location: 47.450200 -122.312000
Magnetic Var: 14.775 E

METAR

KSEA 090153Z 35012KT 10SM FEW040 SCT250 16/02 A3037 RMK A02 SLP292 T01610022

TAF

TAF KSEA 082320Z 0900/1006 36012G19KT P6SM SKC FM090500 02007KT P6SM SKC FM091800 01012G21KT P6SM SKC

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

OMDB

Region: UNITED ARAB EMIRATES
Timezone: ASIA/DUBAI
Runways: 2

Elevation: 62 ft / 19 m
Location: 25.251100 55.371100
Magnetic Var: 2.352 E

METAR

OMDB 090200Z 18004KT CAVOK 29/21 Q1006 NOSIG

TAF

TAF OMDB 082300Z 0900/1006 25008KT CAVOK BECMG 0904/0906 31014KT PROB30 0918/1005 22005KT

Frequencies

REC - 126.27 MHz - ATIS ARRIVAL	REC - 131.70 MHz - ATIS DEPARTURE
TWR - 126.77 MHz - DUBAI TOWER	TWR - 119.55 MHz - DUBAI TOWER
TWR - 118.75 MHz - DUBAI TOWER	TWR - 119.05 MHz - DUBAI TOWER
GND - 118.35 MHz - DUBAI GROUND	GND - 118.85 MHz - DUBAI GROUND
GND - 121.65 MHz - DUBAI GROUND	CLD - 120.35 MHz - CLEARANCE DELIVERY
APP - 122.50 MHz - MINHAD APPROACH	APP - 126.02 MHz - MINHAD APPROACH
APP - 120.25 MHz - DUBAI ARRIVAL	APP - 124.45 MHz - DUBAI ARRIVAL
APP - 124.90 MHz - DUBAI ARRIVAL	DEP - 126.02 MHz - DUBAI DEPARTURE
DEP - 121.02 MHz - DUBAI DEPARTURE	DEP - 126.20 MHz - DUBAI DEPARTURE
DEP - 120.25 MHz - DUBAI DEPARTURE	APP - 120.40 MHz - DUBAI RADAR
APP - 126.02 MHz - DUBAI RADAR	APP - 127.90 MHz - DUBAI DIRECT

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
12R	200 ft	14,604 ft	121.53	ASPHALT	2,352 ft	771 ft
	61 m	4,452 m	119.17		717 m	235 m
30L	200 ft	14,604 ft	301.54	ASPHALT	436 ft	0 ft
	61 m	4,452 m	299.19		133 m	0 m
12L	200 ft	14,289 ft	121.48	ASPHALT	1,496 ft	381 ft
	61 m	4,355 m	119.13		456 m	116 m
30R	200 ft	14,289 ft	301.50	ASPHALT	991 ft	377 ft
	61 m	4,355 m	299.15		302 m	115 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
12L	DME	IDBL	110.10 MHz	18 nm	-	-	62 ft
				33 km	-		62 m
30L	DME	IDBW	111.30 MHz	18 nm	-	-	41 ft
				33 km	-		41 m
30R	DME	IDBR	110.90 MHz	18 nm	-	-	44 ft
				33 km	-		44 m
12L	LOC-ILS	IDBL	110.10 MHz	18 nm	121.49	-	62 ft
				33 km	119.14		62 m
12R	LOC-ILS	IDBE	109.50 MHz	18 nm	121.54	-	62 ft
				33 km	119.19		62 m
30L	LOC-ILS	IDBW	111.30 MHz	18 nm	301.54	-	62 ft
				33 km	299.19		62 m
30R	LOC-ILS	IDBR	110.90 MHz	18 nm	301.49	-	62 ft
				33 km	299.14		62 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
12L	GS	IDBL	110.10 MHz	10 nm	121.49	3.00	62 ft
				19 km	119.14		62 m
12R	GS	IDBE	109.50 MHz	10 nm	121.54	3.00	62 ft
				19 km	119.19		62 m
30L	GS	IDBW	111.30 MHz	10 nm	301.54	3.00	62 ft
				19 km	299.19		62 m
30R	GS	IDBR	110.90 MHz	10 nm	301.49	3.00	62 ft
				19 km	299.14		62 m