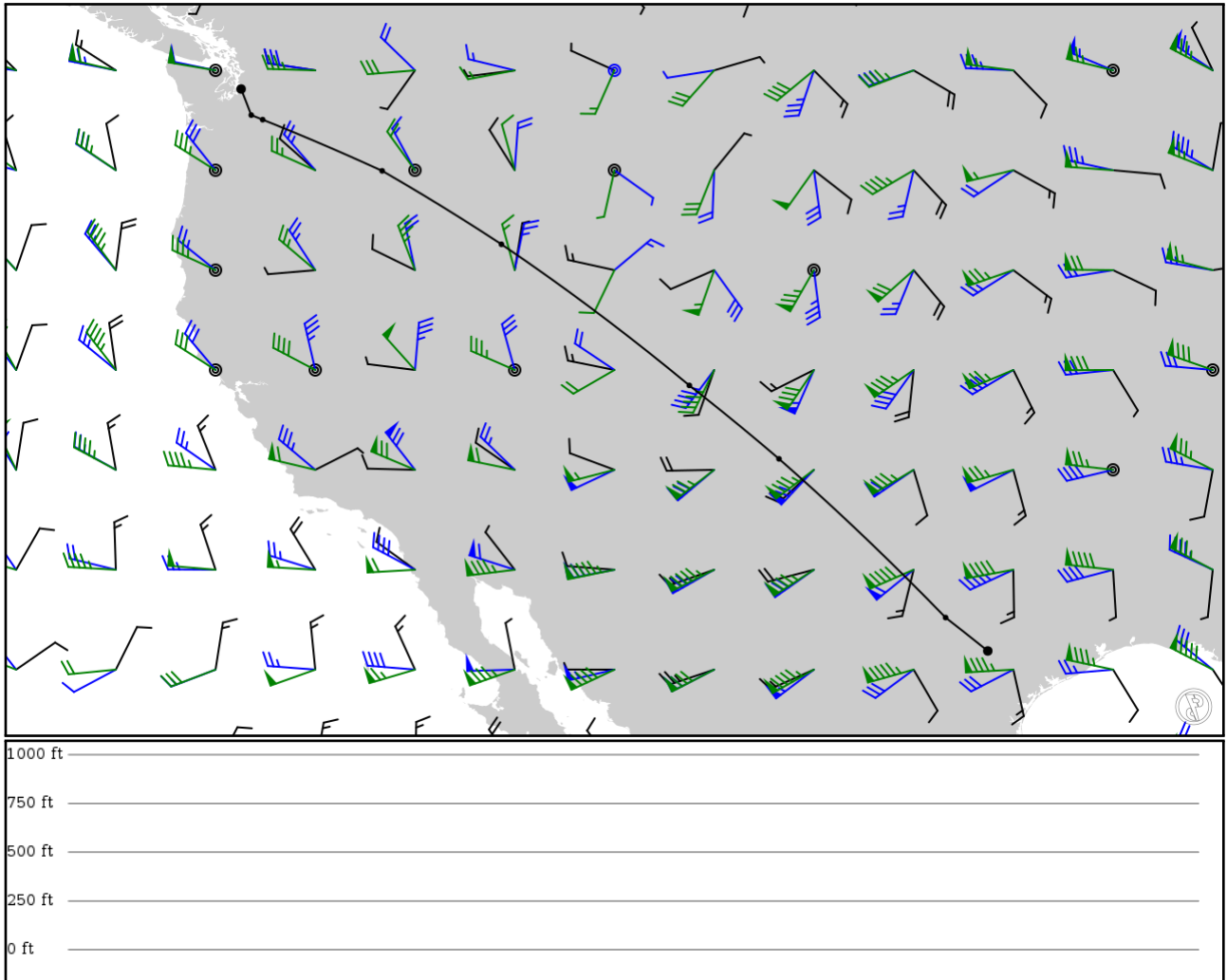


2024/05/15 0322Z

KSEA SUMMA **J54** BKE KU75M KD48S FTI JCT KSAT

1555.63 nm / 2881.03 km



Notes

Requested: KSEA SUMMA J54 BKE KU75M KD48S FTI JCT KSAT

Route

| Ident Type | Via | Lat Lon | Alt | Dist (nm) | Name |
|---------------|--------|------------|------|--------------|---------------------|
| KSEA | - | 47.45019 | 0 ft | - | Seattle Tacoma Intl |
| APT | - | -122.31232 | 0 m | | |
| SUMMA | - | 46.61786 | 0 ft | 51 | - |
| FIX | - | -121.98832 | 0 m | | |
| WANTA | J54 | 46.47329 | 0 ft | 17 | - |
| FIX | AWY-HI | -121.62363 | 0 m | | |
| BKE | J54 | 44.84061 | 0 ft | 187 | BAKER CITY VOR-DME |
| VOR | AWY-HI | -117.80786 | 0 m | | |
| KU75M | - | 42.50000 | 0 ft | 217 | - |
| FIX | - | -114.00000 | 0 m | | |
| KD48S | - | 38.00000 | 0 ft | 385 | - |
| FIX | - | -108.00000 | 0 m | | |
| FTI | - | 35.65756 | 0 ft | 196 | FORT UNION VORTAC |
| VOR | - | -105.13558 | 0 m | | |
| JCT | - | 30.59803 | 0 ft | 404 | JUNCTION VORTAC |
| VOR | - | -99.81747 | 0 m | | |
| KSAT | - | 29.53376 | 0 ft | 94 | San Antonio Intl |
| APT | - | -98.46965 | 0 m | | |

KSEA

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

Elevation: 432 ft / 132 m
Location: 47.450200 -122.312000
Magnetic Var: 14.773 E

METAR

KSEA 150253Z 36006KT 10SM FEW050 SCT250 18/06 A3017 RMK A02 SLP223 T01830061 55001

TAF

TAF AMD KSEA 150256Z 1503/1606 02010KT P6SM SCT250 FM151100 02004KT P6SM FEW045 FM160300 02006KT P6SM BKN120

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 | 165.57 | | 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 | IBEJ | 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 |

KSAT

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

Elevation: 809 ft / 247 m
Location: 29.534100 -98.469300
Magnetic Var: 3.528 E

METAR

KSAT 150251Z 12007KT 10SM CLR 24/16 A2983 RMK A02 SLP084 T02440156 53020

TAF

KSAT 150301Z 1503/1606 11006KT P6SM SKC FM151100 19005KT P6SM SCT250 FM151700 16012G22KT P6SM FEW050 SCT250 FM160

Frequencies

| | |
|--|--|
| REC - 118.90 MHz - SAN ANTONIO ATIS | COM - 122.95 MHz - SAN ANTONIO UNICOM |
| GND - 121.90 MHz - SAN ANTONIO GROUND | TWR - 119.80 MHz - SAN ANTONIO TOWER |
| APP - 124.45 MHz - SAN ANTONIO APPROACH | APP - 128.05 MHz - SAN ANTONIO APPROACH |
| APP - 118.05 MHz - SAN ANTONIO APPROACH | APP - 125.10 MHz - SAN ANTONIO APPROACH |
| DEP - 124.45 MHz - SAN ANTONIO DEPARTURE | DEP - 128.05 MHz - SAN ANTONIO DEPARTURE |
| DEP - 118.05 MHz - SAN ANTONIO DEPARTURE | DEP - 125.10 MHz - SAN ANTONIO DEPARTURE |

Runways

| Ident | Width | Length | Bearing (true) (mag) | Surface | Threshold Offset | Overrun Length |
|-------|--------|----------|-------------------------|----------|---------------------|-------------------|
| 04 | 150 ft | 8,516 ft | 40.63 | CONCRETE | 0 ft | 200 ft |
| | 46 m | 2,596 m | 37.10 | | 0 m | 61 m |
| 22 | 150 ft | 8,516 ft | 220.63 | CONCRETE | 0 ft | 400 ft |
| | 46 m | 2,596 m | 217.11 | | 0 m | 122 m |
| 13R | 150 ft | 8,507 ft | 131.75 | CONCRETE | 0 ft | 210 ft |
| | 46 m | 2,593 m | 128.22 | | 0 m | 64 m |
| 31L | 150 ft | 8,507 ft | 311.76 | CONCRETE | 0 ft | 197 ft |
| | 46 m | 2,593 m | 308.23 | | 0 m | 60 m |
| 13L | 100 ft | 5,519 ft | 131.78 | ASPHALT | 0 ft | 154 ft |
| | 30 m | 1,682 m | 128.25 | | 0 m | 47 m |
| 31R | 100 ft | 5,519 ft | 311.79 | ASPHALT | 0 ft | 0 ft |
| | 30 m | 1,682 m | 308.26 | | 0 m | 0 m |

Approach Nav aids

| Runway | Type | Ident | Frequency | Range | Bearing (true) (mag) | Slope | Elevation |
|--------|---------|-------|------------|-------|-------------------------|-------|-----------|
| 13R | DME | IANT | 110.90 MHz | 18 nm | - | - | 791 ft |
| | | | | 33 km | - | | 791 m |
| 31L | DME | IIZR | 110.90 MHz | 18 nm | - | - | 809 ft |
| | | | | 33 km | - | | 809 m |
| 04 | LOC-ILS | ISAT | 109.70 MHz | 18 nm | 40.63 | - | 809 ft |
| | | | | 33 km | 37.10 | | 809 m |
| 13R | LOC-ILS | IANT | 110.90 MHz | 18 nm | 131.76 | - | 809 ft |
| | | | | 33 km | 128.23 | | 809 m |
| 31L | LOC-ILS | IIZR | 110.90 MHz | 18 nm | 311.76 | - | 809 ft |
| | | | | 33 km | 308.23 | | 809 m |
| 04 | GS | ISAT | 109.70 MHz | 10 nm | 40.63 | 3.00 | 809 ft |
| | | | | 19 km | 37.10 | | 809 m |
| 13R | GS | IANT | 110.90 MHz | 10 nm | 131.76 | 3.00 | 809 ft |
| | | | | 19 km | 128.23 | | 809 m |
| 31L | GS | IIZR | 110.90 MHz | 10 nm | 311.76 | 3.00 | 809 ft |
| | | | | 19 km | 308.23 | | 809 m |