



## **NATIONAL TRANSPORTATION SAFETY BOARD**

Office of Aviation Safety  
Washington, D.C. 20594

January 24, 2020

### **Attachment 7 – Accident Flight Dispatch Release**

# **OPERATIONAL FACTORS**

**DCA19CA081**

[ OFP ]

PAGE NUMBER 1 OF 8

OFP 1 4613

DISPATCH RELEASE  
COMPASS AIRLINES

13FEB2019 1736Z

IFR FLT CP 5763

KSNA/SNA

STD 1930Z

ETD 1930Z

KSEA/SEA

STA 2228Z

ETA 2211Z

AIRCRAFT TAIL NO N613CZ / E175 CF34-8E5

PERF FACTOR 0.0

DISPATCHER

PHONE

DESK

CA-

B

FO-

FA-

FA-

FA-

----- FLIGHT PLAN SUMMARY 5763 KSNA KSEA -----

|          | TIME | FUEL  |          | ALTN | TIME  | DIST | ALT | BURN |
|----------|------|-------|----------|------|-------|------|-----|------|
| BURN     | 0216 | 8760  | T/O      |      |       |      |     |      |
| ALTN     | 0049 | 2798  | DEST1    | RDM  | 0049  | 243  | 210 | 2798 |
| RESERVE  | 0045 | 2450  |          |      |       |      |     |      |
| HOLDING  | 0016 | 700   |          |      |       |      |     |      |
| MIN FUEL |      | 14708 |          |      |       |      |     |      |
| TAXI OUT | 0015 | 500   |          |      |       |      |     |      |
| MIN GATE |      | 15208 |          |      |       |      |     |      |
| CONT     | 0010 | 647   | PAX LOAD |      | 59    |      |     |      |
| TOTAL    |      | 15900 | PAYLD    |      | 12636 |      |     |      |
| LDG FUEL | 0055 | 3097  | ZFW      |      | 63366 |      |     |      |
|          |      |       | TOW      |      | 78721 |      |     |      |
|          |      |       | LDG WGT  |      | 69961 |      |     |      |
|          |      |       | RAMP WGT |      | 79221 |      |     |      |
|          |      |       |          |      |       |      |     |      |

|        | PLANNED | MAX ALLOWABLE |
|--------|---------|---------------|
| BOW    | 59      | 50730         |
| MPAYLD | 12636   | 17481         |
| MZFW   | 63366   | 70547         |
| MTOW   | 78721   | 83937         |
| MLDG   | 69961   | 75177         |
| MRMP   | 79221   | 89352         |

NO TANKERING RECOMMENDED

LOSS FOR EXTRA FUEL USD/1000 LBS. 35.83

OPERATION MODES

CLIMB 290/.75

AVG WND CMP

CLB

CRZ

DES

CRUISE 290/.78

AVG TMP CMP

P08

P01

M01

DESCENT 270/.75

AVG CRZ WIND

249 / 76

FMS ROUTE

-KSNA/20R N0455F340 HHER03 EHF DCT SHIMR DCT LKV HAWKZ7 KSEA/34R

TERRAIN CLEARANCE CHECK

DD CHECK - TERRAIN CHECK COMPLETED WITH NO LIMITATIONS  
FOR TOW UP TO 79721LBS AND CRUISE ALTITUDE  
AT OR ABOVE 8000FTDP CHECK - TERRAIN CHECK COMPLETED WITH LIMITATION  
REVERT TO ESCAPE PROCEDURE

\* DMI LIST \*\*\*\*\* REFER TO MEL/CDL FOR ALL ITEMS \*\*\*\*\*

\* NONE \*

\*\*\*\*\*

-----WEIGHT AND BALANCE-----

PAGE NUMBER 2 OF 8

BOW 50730

GTOW.....

MTOW .....

PCT MAC.....

-----DISPATCH REMARKS-----

XTRA FUEL FOR POSSIBLE HOLDING AT SEA

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PIC SIGNATURE .....

SEE FOM CHAP 8 - DISPATCH RELEASE MSG

PAGE NUMBER 3 OF 8

OFP 1 4613

DISPATCH RELEASE  
COMPASS AIRLINES

13FEB2019 1736Z

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IFR FLT CP 5763 KSNA/SNA STD 1930Z ETD 1930Z  
KSEA/SEA STA 2228Z ETA 2211Z

AIRCRAFT TAIL NO N613CZ / E175 CF34-8E5

PERF FACTOR 0.0

DISPATCHER

PHONE

DESK

CA- B

FO-

FA-

FA-

FA-

----- FLIGHT PLAN SUMMARY 5763 KSNA KSEA -----

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|----------|------|-------|----------|-------|------|------|-----|------|
| BURN     | 0216 | 8760  | T/O      |       |      |      |     |      |
| ALTN     | 0049 | 2798  | DEST1    | RDM   | 0049 | 243  | 210 | 2798 |
| RESERVE  | 0045 | 2450  |          |       |      |      |     |      |
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| MIN FUEL |      | 14708 |          |       |      |      |     |      |
| TAXI OUT | 0015 | 500   |          |       |      |      |     |      |
| MIN GATE |      | 15208 |          |       |      |      |     |      |
| CONT     | 0010 | 647   | PAX LOAD | 59    |      |      |     |      |
| TOTAL    |      | 15900 | PAYLD    | 12636 |      |      |     |      |
| LDG FUEL | 0055 | 3097  | ZFW      | 63366 |      |      |     |      |
|          |      |       | TOW      | 78721 |      |      |     |      |
|          |      |       | LDG WGT  | 69961 |      |      |     |      |
|          |      |       | RAMP WGT | 79221 |      |      |     |      |

|        | PLANNED | MAX ALLOWABLE |
|--------|---------|---------------|
| BOW    | 59      | 50730         |
| MPAYLD | 12636   | 17481         |
| MZFW   | 63366   | 70547         |
| MTOW   | 78721   | 83937         |
| MLDG   | 69961   | 75177         |
| MRMP   | 79221   | 89352         |

NO TANKERING RECOMMENDED

LOSS FOR EXTRA FUEL USD/1000 LBS. 35.83

OPERATION MODES

|         | CLB     | CRZ              | DES     |
|---------|---------|------------------|---------|
| CLIMB   | 290/.75 | AVG WND CMP H67  | T6 H9   |
| CRUISE  | 290/.78 | AVG TMP CMP P08  | P01 M01 |
| DESCENT | 270/.75 | AVG CRZ WIND 249 | / 76    |

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FMS ROUTE-KSNA/20R N0455F340 HHER03 EHF DCT SHIMR DCT LKV HAWKZ7 KSEA/34R  
-----TERRAIN CLEARANCE CHECK  
-----DD CHECK - TERRAIN CHECK COMPLETED WITH NO LIMITATIONS  
FOR TOW UP TO 79721LBS AND CRUISE ALTITUDE  
AT OR ABOVE 8000FTDP CHECK - TERRAIN CHECK COMPLETED WITH LIMITATION  
REVERT TO ESCAPE PROCEDURE  
-----\* DMI LIST \*\*\*\*\* REFER TO MEL/CDL FOR ALL ITEMS \*\*\*\*\*  
\* NONE \*  
\*\*\*\*\*

-----WEIGHT AND BALANCE-----

PAGE NUMBER 4 OF 8

BOW 50730

GTOW.....

MTOW .....

PCT MAC.....

-----DISPATCH REMARKS-----

XTRA FUEL FOR POSSIBLE HOLDING AT SEA

-----

PIC SIGNATURE .....

SEE FOM CHAP 8 - DISPATCH RELEASE MSG

COMPUTER FLIGHT PLAN

COMPASS AIRLINES

CP FLT 5763

| WP<br>STIME                   | LAT<br>LONG             | TTIME<br>TTREM | DIST<br>DTGO | IAS<br>TAS | MCH<br>G/S | MC<br>HDG  | ALT<br>IOAT | WIND<br>WCOMP  | TFB<br>MFRM  |
|-------------------------------|-------------------------|----------------|--------------|------------|------------|------------|-------------|----------------|--------------|
| KSNA/20R                      |                         | 02.16          | 921          | ---        | ---        | ---        | ---         | ---            | 14008        |
| STREL<br>002                  | N33 34.29<br>W117 53.96 | 00.02<br>02.13 | 6<br>914     | 290<br>329 | .75<br>156 | 182<br>183 | 045<br>P09  | 200031<br>H034 | 417<br>13591 |
| TOC<br>002                    | N33 30.45<br>W117 58.30 | 00.04<br>02.12 | 5<br>909     | 290<br>329 | .75<br>238 | 211<br>211 | 080<br>P06  | 226040<br>H039 | 171<br>13420 |
| DOLLF<br>000                  | N33 28.83<br>W118 00.12 | 00.04<br>02.12 | 2<br>907     | 290<br>329 | .51<br>288 | 211<br>212 | 080<br>P05  | 227040<br>H045 | 32<br>13388  |
| MIKAA<br>002                  | N33 24.58<br>W118 08.79 | 00.06<br>02.10 | 8<br>898     | 290<br>455 | .75<br>263 | 228<br>228 | 116<br>P02  | 243048<br>H038 | 233<br>13155 |
| SNYPR<br>002                  | N33 26.37<br>W118 18.00 | 00.08<br>02.08 | 8<br>890     | 290<br>455 | .75<br>310 | 271<br>266 | 142<br>M04  | 242052<br>H028 | 175<br>12980 |
| HHERO<br>002                  | N33 31.28<br>W118 29.27 | 00.10<br>02.06 | 11<br>880    | 290<br>455 | .75<br>342 | 286<br>279 | 172<br>M09  | 240050<br>T030 | 203<br>12777 |
| *** LOS ANGELES UPPER FIR *** |                         |                |              |            |            |            |             |                |              |
| KZLA                          |                         | 00.10<br>02.06 | 4<br>876     |            |            |            | 180         |                |              |
| *** OAKLAND UPPER FIR ***     |                         |                |              |            |            |            |             |                |              |
| KZOA                          |                         | 00.32<br>01.44 | 25<br>722    |            |            |            | 340         |                |              |
| CMINO<br>001                  | N33 43.90<br>W118 27.57 | 00.11<br>02.04 | 9<br>867     | 290<br>455 | .75<br>415 | 354<br>348 | 197<br>M13  | 245049<br>T017 | 188<br>12589 |
| RIDDL<br>003                  | N34 00.12<br>W118 27.59 | 00.14<br>02.02 | 16<br>851    | 290<br>455 | .75<br>418 | 348<br>341 | 223<br>M20  | 252048<br>H000 | 221<br>12368 |
| LANDO<br>008                  | N35 00.75<br>W118 36.98 | 00.22<br>01.54 | 61<br>790    | 290<br>455 | .75<br>431 | 341<br>328 | 290<br>M33  | 262109<br>H057 | 749<br>11619 |
| EHF<br>006                    | N35 29.07<br>W119 05.84 | 00.28<br>01.48 | 37<br>753    | 290<br>455 | .75<br>390 | 308<br>292 | 335<br>M43  | 252141<br>T005 | 459<br>11160 |
| TOC<br>001                    | N35 35.14<br>W119 07.97 | 00.29<br>01.47 | 6<br>746     | 290<br>455 | .75<br>446 | 332<br>312 | 340<br>M48  | 251143<br>T006 | 64<br>11096  |
| *** OAKLAND UPPER FIR ***     |                         |                |              |            |            |            |             |                |              |
| KZOA                          |                         | 00.32<br>01.44 | 25<br>722    |            |            |            | 340         |                |              |
| SHIMR<br>023                  | N38 13.99<br>W120 05.79 | 00.52<br>01.24 | 141<br>580   | 271<br>455 | .78<br>436 | 331<br>312 | 340<br>M48  | 248135<br>T044 | 1464<br>9632 |

| WP<br>STIME                                                      | LAT<br>LONG | TTIME<br>TTREM | DIST<br>DTGO | IAS<br>TAS | MCH<br>G/S | MC<br>HDG | ALT<br>IOAT | WIND<br>WCOMP | TFB<br>MFRM |      |
|------------------------------------------------------------------|-------------|----------------|--------------|------------|------------|-----------|-------------|---------------|-------------|------|
| *** SEATTLE UPPER FIR ***                                        |             |                |              |            |            |           |             |               |             |      |
| KZSE                                                             |             | 01.12          | 167          |            |            |           | 340         |               |             |      |
|                                                                  |             | 01.04          | 414          |            |            |           |             |               |             |      |
| *** DP - ENROUTE DIVERSION INFORMATION ***                       |             |                |              |            |            |           |             |               |             |      |
| DECISION POINT N4127.7 W12024.2 - SHIMR PLUS 195 NM              |             |                |              |            |            |           |             |               |             |      |
| PRIOR TO DECISION POINT - TURN BACK ALONG ROUTE JUST FLOWN       |             |                |              |            |            |           |             |               |             |      |
| TO NEAREST SUITABLE AIRPORT INCLUDING DEPARTURE - KSNA/SNA       |             |                |              |            |            |           |             |               |             |      |
| AFTER DECISION POINT - TURN LEFT AND DIVERT DIRECT TO - KMFR/MFR |             |                |              |            |            |           |             |               |             |      |
| *** DP - ENROUTE DIVERSION INFORMATION ***                       |             |                |              |            |            |           |             |               |             |      |
| DECISION POINT N4131.7 W12024.6 - SHIMR PLUS 199 NM              |             |                |              |            |            |           |             |               |             |      |
| PRIOR TO DECISION POINT - TURN LEFT AND DIVERT DIRECT TO -       |             |                |              |            |            |           |             |               |             |      |
| KMFR/MFR                                                         |             |                |              |            |            |           |             |               |             |      |
| AFTER DECISION POINT - CONTINUE ALONG FLIGHT ROUTE               |             |                |              |            |            |           |             |               |             |      |
| TO NEAREST SUITABLE AIRPORT INCLUDING DESTINATION - KSEA/SEA     |             |                |              |            |            |           |             |               |             |      |
| LKV                                                              | N42         | 29.57          | 01.23        | 90         | 271        | .78       | 342         | 340           | 234076      | 1969 |
| 031                                                              | W120        | 30.43          | 00.53        | 324        | 451        | 483       | 331         | M53           | T008        | 7663 |
| BLYTZ                                                            | N43         | 47.05          | 01.35        | 85         | 271        | .78       | 322         | 340           | 246065      | 693  |
| 012                                                              | W121        | 18.23          | 00.41        | 239        | 449        | 451       | 313         | M56           | H010        | 6970 |
| ESLEY                                                            | N45         | 17.77          | 01.48        | 100        | 271        | .78       | 321         | 340           | 267048      | 842  |
| 013                                                              | W122        | 17.20          | 00.28        | 139        | 449        | 435       | 313         | M55           | H021        | 6128 |
| BTG                                                              | N45         | 44.87          | 01.53        | 30         | 271        | .78       | 320         | 340           | 276044      | 257  |
| 005                                                              | W122        | 35.49          | 00.23        | 108        | 449        | 427       | 314         | M54           | H014        | 5871 |
| TOD                                                              | N45         | 59.51          | 01.55        | 15         | 271        | .78       | 335         | 340           | 280042      | 125  |
| 002                                                              | W122        | 39.12          | 00.21        | 94         | 451        | 435       | 330         | M54           | H012        | 5746 |
| PTERA                                                            | N46         | 05.66          | 01.56        | 6          | 270        | .75       | 335         | 310           | 278042      | 4    |
| 001                                                              | W122        | 40.65          | 00.20        | 87         | 451        | 417       | 329         | M50           | H017        | 5742 |
| KRIEG                                                            | N46         | 19.21          | 01.58        | 14         | 270        | .75       | 337         | 252           | 305034      | 13   |
| 002                                                              | W122        | 43.33          | 00.18        | 74         | 451        | 391       | 333         | M37           | H021        | 5729 |
| *** SEATTLE LOWER FIR ***                                        |             |                |              |            |            |           |             |               |             |      |
| KZSE                                                             |             | 02.00          | 12           |            |            |           | 200         |               |             |      |
|                                                                  |             | 00.16          | 62           |            |            |           |             |               |             |      |
| HAWKZ                                                            | N46         | 47.08          | 02.03        | 16         | 270        | .75       | 343         | 132           | 291021      | 61   |
| 005                                                              | W122        | 44.34          | 00.13        | 46         | 451        | 334       | 340         | M10           | T006        | 5668 |
| LIINE                                                            | N46         | 50.65          | 02.03        | 5          | 270        | .75       | 024         | 114           | 293017      | 12   |
| 000                                                              | W122        | 40.11          | 00.13        | 41         | 451        | 325       | 020         | M08           | T005        | 5656 |
| FOOTT                                                            | N46         | 54.50          | 02.04        | 5          | 270        | .75       | 028         | 097           | 290013      | 17   |
| 001                                                              | W122        | 34.82          | 00.12        | 36         | 451        | 302       | 026         | M05           | T004        | 5639 |

PAGE NUMBER 7 OF 8

| WP<br>STIME | LAT<br>LONG | TTIME<br>TTREM | DIST<br>DTGO | IAS<br>TAS | MCH<br>G/S | MC<br>HDG | ALT<br>IOAT | WIND<br>WCOMP | TFB<br>MFRM |
|-------------|-------------|----------------|--------------|------------|------------|-----------|-------------|---------------|-------------|
| GOALZ       | N46 58.95   | 02.06          | 6            | 270        | .75        | 030       | 072         | 158005        | 22          |
| 002         | W122 28.11  | 00.10          | 29           | 451        | 284        | 030       | M05         | T002          | 5617        |
| SONDR       | N47 07.43   | 02.08          | 10           | 270        | .75        | 015       | 033         | 138004        | 41          |
| 002         | W122 20.94  | 00.08          | 20           | 451        | 263        | 015       | M02         | T002          | 5576        |
| KSEA/34R    |             | -----          | -----        | ---        | ---        | ---       | ---         | ----          | 328         |
|             |             | 00.00          | 0            | ---        | ---        | ---       | ---         | ----          | 5248        |

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OPERATIONAL IMPACTS

|               |        |      |          |     |             |
|---------------|--------|------|----------|-----|-------------|
| WEIGHT CHANGE | DN 200 | TRIP | M 000074 | LBS | TIME P 0000 |
| WEIGHT CHANGE | UP 200 | TRIP | M 000049 | LBS | TIME P 0000 |
| WEIGHT CHANGE | DN 500 | TRIP | M 000092 | LBS | TIME P 0000 |
| WEIGHT CHANGE | UP 500 | TRIP | M 000030 | LBS | TIME P 0000 |
| FL CHANGE     | UP FL1 | TRIP | M 000122 | LBS | TIME P 0001 |
| FL CHANGE     | DN FL1 | TRIP | P 000124 | LBS | TIME M 0000 |
| FL CHANGE     | DN FL2 | TRIP | P 000227 | LBS | TIME P 0000 |
| SPD CHANGE    | M.79   | TRIP | P 000032 | LBS | TIME M 0001 |
| SPD CHANGE    | LRC    | TRIP | M 000275 | LBS | TIME P 0007 |

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WIND AND TEMPERATURE SUMMARY KSNA TO KSEA

| CLIMB   |         |     | T O C  |        |     | T O C  |        |     |
|---------|---------|-----|--------|--------|-----|--------|--------|-----|
| FL350   | 253/122 | M48 | FL100  | 242/45 | P03 | NO WX  | DATA   |     |
| FL310   | 259/118 | M37 | FL090  | 234/42 | P04 | NO WX  | DATA   |     |
| FL200   | 251/47  | M15 | *FL080 | 226/39 | P05 | *NO WX | DATA   |     |
| FL150   | 244/51  | M05 | FL070  | 218/37 | P06 | NO WX  | DATA   |     |
| FL100   | 242/45  | P03 | FL060  | 210/34 | P07 | NO WX  | DATA   |     |
| SHIMR   |         |     | LKV    |        |     | BLYTZ  |        |     |
| FL380   | 248/137 | M56 | FL380  | 242/82 | M57 | FL380  | 250/67 | M56 |
| FL360   | 248/138 | M54 | FL360  | 236/80 | M58 | FL360  | 246/67 | M57 |
| *FL340  | 248/135 | M50 | *FL340 | 234/76 | M56 | *FL340 | 246/65 | M56 |
| FL320   | 248/119 | M46 | FL320  | 237/68 | M51 | FL320  | 250/60 | M52 |
| FL300   | 244/95  | M43 | FL300  | 241/60 | M46 | FL300  | 253/56 | M47 |
| ESLEY   |         |     | BTG    |        |     | T O D  |        |     |
| FL380   | 266/45  | M57 | FL380  | 271/42 | M57 | FL380  | 274/42 | M57 |
| FL360   | 268/44  | M56 | FL360  | 276/41 | M56 | FL360  | 279/40 | M56 |
| *FL340  | 267/48  | M54 | *FL340 | 276/44 | M54 | *FL340 | 281/42 | M54 |
| FL320   | 263/53  | M51 | FL320  | 271/46 | M51 | FL320  | 276/44 | M51 |
| FL300   | 264/54  | M47 | FL300  | 271/47 | M47 | FL300  | 276/43 | M47 |
| DESCENT |         |     |        |        |     |        |        |     |
| FL390   | 270/42  | M57 |        |        |     |        |        |     |
| FL350   | 280/41  | M55 |        |        |     |        |        |     |
| FL310   | 279/42  | M49 |        |        |     |        |        |     |
| FL200   | 301/31  | M25 |        |        |     |        |        |     |
| FL100   | 293/14  | M05 |        |        |     |        |        |     |

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ATC FLIGHT PLAN

## [ ATC Flight Plan ]

-----  
FF KZLAZQZX

131738 KMSPCPZD

(FPL-CPZ5763-IS

-E75S/M-SDE3GRWZ/S

-KSNA1930

-N0455F340 HHER03 EHF DCT SHIMR DCT LKV HAWKZ7

-KSEA0216 KRDM

-PBN/B2B3B4C2C3D2D3 NAV/RNVD1E1A1 DOF/190213 REG/N613CZ

EET/KZOA0032 KZSE0112 OPR/COMPASS AIRLINES PER/C RMK/TCAS)

[ Additional Info ]

-----  
D I S P A T C H   B R I E F I N G   I N F O      CP5763      KSNA/KSEA

## [ Airport WX List ]

-----  
KSNA --> KSEA AX5763 / 13Feb2019  
LIDO/WEATHER SERVICE DATE : 13Feb2019 TIME : 17:42 UTC

## DEPARTURE AIRPORT:

KSNA/SNA SANTA ANA/JOHN WAYNE-ORANGE CO

SA 131653 15007KT 10SM FEW075 SCT095 OVC110 16/M01 A2996  
RMK A02 SLP144 T01561011=  
FT 131138 1312/1412 13005KT P6SM SCT120 BKN200  
FM131800 12011KT P6SM VCSH BKN050 BKN120  
FM132200 12012KT P6SM -RA BKN030 OVC050  
FM140400 14012G20KT 6SM -RA BKN030 OVC050  
FM140900 16010G18KT 4SM RA BKN020 OVC040=

## DESTINATION AIRPORT:

KSEA/SEA SEATTLE-TACOMA INTL

SA 131706 34004KT 2 1/2SM -DZ BR BKN004 OVC009 02/01 A2962  
RMK A02 P0000 T00220006=  
FT 131512 1315/1418 VRB04KT P6SM VCSH OVC004  
FM131800 VRB03KT P6SM SCT015 BKN028 OVC050  
FM132200 36006KT P6SM SCT025 BKN040  
FM140300 04007KT P6SM SCT200  
FM141100 05006KT P6SM SCT100 BKN200  
FM141700 06009KT P6SM BKN100 OVC200=

## DESTINATION ALTERNATE:

KRDM/RDM REDMOND/ROBERTS FIELD

SA 131656 11003KT 10SMSM BKN044 03/M01 A2950=  
FT 131723 1318/1418 16006KT P6SM VCSH SCT025 OVC040  
TEMPO 1319/1322 4SM -RASN BR BKN025  
FM140000 VRB05KT P6SM VCSH SCT015 OVC030  
FM141400 30008KT 2SM -FZRASN BR SCT008 OVC015  
FM141730 19011G19KT 5SM BR VCSH SCT015 BKN025=

## ESCAPE AIRPORT(S):

KMFR/MFR MEDFORD/ROGUE VALLEY INTL

SA 131653 00000KT 7SM -RA BKN004 OVC010 02/01 A2957  
RMK A02 SLP019 P0002 T00170006=  
FT 131726 1318/1418 VRB03KT P6SM -RA SCT005 SCT020 OVC040  
FM141000 VRB03KT P6SM -RA OVC020  
FM141700 15012G20KT P6SM SCT025 OVC050=

## US Convective SIGMETs:

KZOA OAKLAND UPPER FIR

SIGW

MKCW WST 131655  
CONVECTIVE SIGMET 2W  
VALID UNTIL 1855Z  
CA CSTL WTRS  
FROM 60SW ENI-80WSW SNS-210WSW SNS-220WSW PYE-60SW ENI  
DVLPG AREA EMBD TS MOV FROM 24030KT  
TOPS TO FL300.=

## US Convective SIGMETs Outlook:

KZLA LOS ANGELES UPPER FIR

SIGW

MKCW WST 131655  
OUTLOOK VALID 131855-132255  
AREA 1...FROM RBL-60NNE CZQ-SNS-60WSW RZS-150WSW  
RZS-130WSW SNS-210SW

PYE-210WSW PYE-130SW FOT-RBL  
WST ISSUANCES POSS  
REFER TO MOST RECENT ACUS01 KWNS FROM STORM  
PREDICTION CENTER FOR SYNOPSIS AND METEOROLOGICAL  
DETAILS=

SIGW

MKCW WST 131555  
OUTLOOK VALID 131755-132155  
AREA 1...FROM RBL-60NNE CZQ-SNS-60WSW RZS-150WSW  
RZS-130WSW SNS-210SW  
PYE-210WSW PYE-130SW FOT-RBL  
WST ISSUANCES POSS  
REFER TO MOST RECENT ACUS01 KWNS FROM STORM  
PREDICTION CENTER FOR SYNOPSIS AND METEOROLOGICAL  
DETAILS=

KZOA OAKLAND UPPER FIR

SIGW

MKCW WST 131655  
OUTLOOK VALID 131855-132255  
AREA 1...FROM RBL-60NNE CZQ-SNS-60WSW RZS-150WSW  
RZS-130WSW SNS-210SW  
PYE-210WSW PYE-130SW FOT-RBL  
WST ISSUANCES POSS  
REFER TO MOST RECENT ACUS01 KWNS FROM STORM  
PREDICTION CENTER FOR SYNOPSIS AND METEOROLOGICAL  
DETAILS=

SIGW

MKCW WST 131555  
OUTLOOK VALID 131755-132155  
AREA 1...FROM RBL-60NNE CZQ-SNS-60WSW RZS-150WSW  
RZS-130WSW SNS-210SW  
PYE-210WSW PYE-130SW FOT-RBL  
WST ISSUANCES POSS  
REFER TO MOST RECENT ACUS01 KWNS FROM STORM  
PREDICTION CENTER FOR SYNOPSIS AND METEOROLOGICAL  
DETAILS=

US Domestic SIGMETs:

KZOA OAKLAND UPPER FIR

WS6R

SFOR WS 131541  
SIGMET ROMEO 1 VALID UNTIL 131941  
CA NV AND CSTL WTRS  
FROM 50NNW FMG TO OAL TO 70SSE SNS TO PYE TO 50NNW FMG  
OCNL SEV TURB BLW 100  
DUE TO STG LOW LVL WNDS AND STG UDDFS AND  
LLWS  
RPTD BY ACFT  
CONDS CONTG BYD 1941Z  
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SIGMETs:

No Wx data available

AIRMETs:

No Wx data available

US AIRMETs:

KZLA LOS ANGELES UPPER FIR

WA5SMTN

SLCS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET MTN OBSCN...ID MT WY NV UT CO WA OR CA  
FROM 40SSW YQL TO HVR TO 50ESE LWT TO 30NE OCS TO  
50WSW HVE TO  
40S ILC TO 20ENE OAL TO MZB TO LAX TO 40W RZS TO FOT  
TO HQM TO  
TOU TO HUH TO 40SSW YQL  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...IFR ID MT WY NV UT CO NM  
BOUNDED BY 40NW HVR-50NNW ISN-60WSW DIK-50SSW  
BIL-30WSW BOY-  
20WNW LAR-20WNW DEN-50W ALS-40SE DVC-20WSW DTA-30E  
BVL-30NW BVL-  
30ESE ILC-50ENE FMG-40SSW FMG-40SE LKV-50SE REO-30E  
GEG-40NW HVR  
CIG BLW 010/VIS BLW 3SM PCPN/BR  
CONDS CONTG THRU 03Z

AREA 2...MTN OBSCN ID MT WY NV UT CO AZ NM WA OR  
CA  
BOUNDED BY 20NE HUH-40SSW YQL-HVR-CYS-30ENE ALS-50E  
RSK-20ESE  
OAL-20S HEC-60SSE TRM-MZB-30W RZS-PYE-FOT-70WNW  
OED-HQM-TOU-20NE  
HUH  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG THRU 03Z

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WA5TTURB1

SLCT WA 131542 AMD  
AIRMET TANGO UPDT 6 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...ID WY NV UT CO AZ NM OR CA AND CSTL WTRS  
FROM 60E DSD TO 70SW RAP TO BFF TO GLD TO 50W LBL TO  
30ESE TBE  
TO INK TO ELP TO 50S TUS TO BZA TO 20S MZB TO 220SW  
MZB TO  
140WSW FOT TO 130WNW FOT TO 60E DSD  
MOD TURB BTN FL200 AND FL400  
CONDS CONTG BYD 21Z THRU 03Z

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WA5TTURB3

SLCT WA 131542 AMD  
AIRMET TANGO UPDT 6 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...ID MT WY NV UT CO AZ NM WA OR CA  
FROM 40NNW GTF TO 60WSW RAP TO 30SSW TBE TO 40S FTI TO  
20NW ABQ  
TO 50SSW HBU TO 20W DVC TO 20ESE LAS TO 50ESE CZQ TO  
20NE SAC TO  
60N RBL TO 50S DSD TO 70ENE PDT TO 50SSW FCA TO 40NNW  
GTF  
MOD TURB BLW FL180  
CONDS CONTG BYD 21Z THRU 03Z

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WA5ZICE1

SLCZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL  
132100  
AIRMET ICE...NV AZ CA AND CSTL WTRS  
FROM 70SSW PYE TO 30WSW RZS TO 40NE LAS TO 20ESE INW  
TO SSO TO  
50S TUS TO BZA TO 20S MZB TO 220SW MZB TO 210SSW RZS  
TO 110SW RZS  
TO 70SSW PYE  
MOD ICE BTN FRZLVL AND FL240  
FRZLVL 080-110  
CONDS CONTG BYD 21Z  
ENDG 21-00Z

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WA5ZICE2

SLCZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL  
132100  
AIRMET ICE...ID MT WY NV UT CO AZ NM WA OR CA AND CSTL  
WTRS  
FROM 40E YDC TO 50WSW YXC TO 60SSW YYN TO 70NE GGW TO  
30ESE DDY  
TO HBU TO 20WNW RSK TO 20ESE INW TO 40NE LAS TO 30WSW  
RZS TO  
70SSW PYE TO 130WNW FOT TO 120WSW ONP TO 20NE HUH TO  
40E YDC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG BYD 21Z  
THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...ICE NV CA AND CSTL WTRS  
BOUNDED BY 70NW FOT-30WSW MOD-50SSW OAK-130WSW  
SNS-160W FOT-70NW  
FOT  
MOD ICE BTN FRZLVL AND FL200  
FRZLVL 070-100  
CONDS DVLPG 21-00Z  
CONDS CONTG THRU 03Z

AREA 2...ICE ID MT WY NV UT CO AZ NM WA OR CA  
AND CSTL WTRS  
BOUNDED BY 30WSW YXC-50NNW ISN-70SSW ISN-30SE  
TCS-50ESE DRK-50ENE  
LAS-40WSW EHF-60NW FOT-50SW ONP-30WSW YXC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG THRU  
03Z

FRZLVL...RANGING FROM SFC-125 ACRS AREA  
MULT FRZLVL BLW 080 BOUNDED BY 40SSW ISN-70SW  
RAP-BFF-GLD-  
40SW GLD-30WSW CZI-50E LWT-40SSW ISN  
MULT FRZLVL BLW 110 BOUNDED BY 50SW EUG-60SE EUG-50S  
LKV-  
20SSW REO-30ENE BVL-50NNE TBC-50SSW BTY-20N ENI-80WSW  
OED-  
50SW EUG  
SFC ALG 30NNW FMG-30WSW OAL-30NNW BTY-30SSW ABQ-30S

FTI-20S  
LAA-40E LAA  
080 ALG 20SE CIM-40E TBE-40WNW LBL  
080 ALG 20WSW BTY-50NNE LAS-30WSW ABQ-20SW FTI-20SSE  
CIM  
120 ALG 20N BZA-20N TUS-50SSW SSO  
120 ALG 50E ELP-20N INK

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WA6SIFR

SFOS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET IFR...WA OR CA AND CSTL WTRS  
FROM 50WSW YXC TO 50SE REO TO 40SE LKV TO 40SSW FMG TO  
40S OAL  
TO 30ENE EHF TO 20S SAC TO 30NW SNS TO 40SW RZS TO  
120WSW RZS TO  
140SW SNS TO 140WSW FOT TO 20NW FOT TO 40NE TOU TO  
50WSW YXC  
CIG BLW 010/VIS BLW 3SM PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

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WA6SMTN

SFOS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET MTN OBSCN...WA OR CA ID MT WY NV UT CO  
FROM 40SSW YQL TO HVR TO 50ESE LWT TO 30NE OCS TO  
50WSW HVE TO  
40S ILC TO 20ENE OAL TO MZB TO LAX TO 40W RZS TO FOT  
TO HQM TO  
TOU TO HUH TO 40SSW YQL  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

OTLK VALID 2100-0300Z...MTN OBSCN WA OR CA ID MT  
WY NV UT CO AZ  
NM  
BOUNDED BY 20NE HUH-40SSW YQL-HVR-CYS-30ENE ALS-50E  
RSK-20ESE  
OAL-20S HEC-60SSE TRM-MZB-30W RZS-PYE-FOT-70WNW  
OED-HQM-TOU-20NE  
HUH  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG THRU 03Z

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WA6TSTG

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET STG SFC WNDZ...CA AND CSTL WTRS  
FROM 40NW FOT TO 30S ENI TO 20NE SNS TO 40SSW RZS TO  
160SW RZS  
TO 120WSW PYE TO 100SW FOT TO 40NW FOT  
SUSTAINED SURFACE WINDS GTR THAN 30KT EXP  
CONDS CONTG BYD 21Z  
ENDG 21-00Z

LLWS POTENTIAL...OR CA ID WY NV UT AZ AND CSTL  
WTRS  
BOUNDED BY 80ESE DSD-70S BKE-50SE BOI-50ESE MLD-30S

HVE-70SSE  
ILC-BTY-40NE LAX-20W RZS-60SW OAK-60WNW ENI-80NNW  
FOT-50WNW OED-  
80ESE DSD  
LLWS EXP  
CONDS CONTG BYD 21Z THRU 03Z

OTLK VALID 2100-0300Z...TURB OR CA ID MT WY NV  
UT CO AZ NM  
BOUNDED BY 30WNW BIL-30S CZI-60W RAP-30S TBE-60NNW  
CME-20SSW ABQ-  
50S SJN-DRK-20N PGS-50ESE CZQ-20NNE SAC-80SSE  
OED-60SSW DSD-  
30ESE DSD-20NNW REO-40ESE BOI-30WSW LKT-30NNE  
DLN-30WNW BIL  
MOD TURB BLW FL180  
CONDS CONTG THRU 03Z

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WA6TTURB1

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...OR CA ID WY NV UT CO AZ NM AND CSTL WTRS  
FROM 60E DSD TO 70SW RAP TO BFF TO GLD TO 50W LBL TO  
30ESE TBE  
TO INK TO ELP TO 50S TUS TO BZA TO 20S MZB TO 220SW  
MZB TO  
140WSW FOT TO 130WNW FOT TO 60E DSD  
MOD TURB BTN FL200 AND FL400  
CONDS CONTG BYD 21Z THRU 03Z

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WA6TTURB3

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...OR CA AND CSTL WTRS  
FROM 50S DSD TO 60N RBL TO 20NE SAC TO 50ESE CZQ TO  
40SSE BTY TO  
50WNW TRM TO 130WSW MZB TO 170SW RZS TO 130SW PYE TO  
100W OED TO  
30WNW OED TO 50S DSD  
MOD TURB BLW 150  
CONDS CONTG BYD 21Z THRU 03Z

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WA6TTURB4

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...WA OR CA ID MT WY NV UT CO AZ NM  
FROM 40NNW GTF TO 60WSW RAP TO 30SSW TBE TO 40S FTI TO  
20NW ABQ  
TO 50SSW HBU TO 20W DVC TO 20ESE LAS TO 50ESE CZQ TO  
20NE SAC TO  
60N RBL TO 50S DSD TO 70ENE PDT TO 50SSW FCA TO 40NNW  
GTF  
MOD TURB BLW FL180  
CONDS CONTG BYD 21Z THRU 03Z

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WA6ZICE1

SFOZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL

132100  
AIRMET ICE...CA NV AZ AND CSTL WTRS  
FROM 70SSW PYE TO 30WSW RZS TO 40NE LAS TO 20ESE INW  
TO SSO TO  
50S TUS TO BZA TO 20S MZB TO 220SW MZB TO 210SSW RZS  
TO 110SW RZS  
TO 70SSW PYE  
MOD ICE BTN FRZLVL AND FL240  
FRZLVL 080-110  
CONDS CONTG BYD 21Z  
ENDG 21-00Z

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WA6ZICE2

SFOZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL  
132100  
AIRMET ICE...WA OR CA ID MT WY NV UT CO AZ NM AND CSTL  
WTRS  
FROM 40E YDC TO 50WSW YXC TO 60SSW YYN TO 70NE GGW TO  
30ESE DDY  
TO HBU TO 20WNW RSK TO 20ESE INW TO 40NE LAS TO 30WSW  
RZS TO  
70SSW PYE TO 130WNW FOT TO 120WSW ONP TO 20NE HUH TO  
40E YDC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG BYD 21Z  
THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...ICE CA NV AND CSTL WTRS  
BOUNDED BY 70NW FOT-30WSW MOD-50SSW OAK-130WSW  
SNS-160W FOT-70NW  
FOT  
MOD ICE BTN FRZLVL AND FL200  
FRZLVL 070-100  
CONDS DVLPG 21-00Z  
CONDS CONTG THRU 03Z

AREA 2...ICE WA OR CA ID MT WY NV UT CO AZ NM  
AND CSTL WTRS  
BOUNDED BY 30WSW YXC-50NNW ISN-70SSW ISN-30SE  
TCS-50ESE DRK-50ENE  
LAS-40WSW EHF-60NW FOT-50SW ONP-30WSW YXC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG THRU  
03Z

FRZLVL...RANGING FROM SFC-135 ACRS AREA  
MULT FRZLVL BLW 110 BOUNDED BY 50SW EUG-60SE EUG-50S  
LKV-  
20SSW REO-30ENE BVL-50NNE TBC-50SSW BTY-20N ENI-80WSW  
OED-  
50SW EUG  
SFC ALG 50WNW TOU-30SE TOU-40SW SEA-30NNW DSD-50SE  
OED-60NE  
RBL-30NNW FMG  
040 ALG 160NW FOT-120SW ONP-70SSW ONP-50ENE OED  
080 ALG 140WSW FOT-120W FOT-40W FOT-40ENE SAC-60SSW  
OAL-20WSW

BTY  
120 ALG 140SSW SNS-80SSW RZS-40ESE MZB-20N BZA  
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KZSE SEATTLE UPPER FIR

WA5SIFR

SLCS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET IFR...ID MT WY NV UT  
FROM 50WSW YXC TO 50NNW ISN TO 50W DIK TO 30SSE LWT TO  
30NNE OCS  
TO 60SW MTU TO 30NNW DTA TO 20E ILC TO 60E FMG TO 40S  
OAL TO  
40SSW FMG TO 40SE LKV TO 50SE REO TO 50WSW YXC  
CIG BLW 010/VIS BLW 3SM PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z  
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WA5SMTN

SLCS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET MTN OBSCN...ID MT WY NV UT CO WA OR CA  
FROM 40SSW YQL TO HVR TO 50ESE LWT TO 30NE OCS TO  
50WSW HVE TO  
40S ILC TO 20ENE OAL TO MZB TO LAX TO 40W RZS TO FOT  
TO HQM TO  
TOU TO HUH TO 40SSW YQL  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...IFR ID MT WY NV UT CO NM  
BOUNDED BY 40NW HVR-50NNW ISN-60WSW DIK-50SSW  
BIL-30WSW BOY-  
20WNW LAR-20WNW DEN-50W ALS-40SE DVC-20WSW DTA-30E  
BVL-30NW BVL-  
30ESE ILC-50ENE FMG-40SSW FMG-40SE LKV-50SE REO-30E  
GEG-40NW HVR  
CIG BLW 010/VIS BLW 3SM PCPN/BR  
CONDS CONTG THRU 03Z

AREA 2...MTN OBSCN ID MT WY NV UT CO AZ NM WA OR  
CA  
BOUNDED BY 20NE HUH-40SSW YQL-HVR-CYS-30ENE ALS-50E  
RSK-20ESE  
OAL-20S HEC-60SSE TRM-MZB-30W RZS-PYE-FOT-70WNW  
OED-HQM-TOU-20NE  
HUH  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG THRU 03Z  
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WA5TTURB1

SLCT WA 131542 AMD  
AIRMET TANGO UPDT 6 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...ID WY NV UT CO AZ NM OR CA AND CSTL WTRS  
FROM 60E DSD TO 70SW RAP TO BFF TO GLD TO 50W LBL TO  
30ESE TBE  
TO INK TO ELP TO 50S TUS TO BZA TO 20S MZB TO 220SW  
MZB TO

140WSW FOT TO 130WNW FOT TO 60E DSD  
MOD TURB BTN FL200 AND FL400  
CONDS CONTG BYD 21Z THRU 03Z

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WA5TTURB2

SLCT WA 131542 AMD  
AIRMET TANGO UPDT 6 FOR TURB STG WNDS AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...ID MT WY NV UT CO AZ NM WA OR CA AND  
CSTL WTRS  
FROM YDC TO 50WSW YXC TO 50NNW ISN TO 70SW RAP TO 50E  
DSD TO  
130WNW FOT TO 110WNW ONP TO 140W TOU TO YDC  
MOD TURB BTN FL180 AND FL380  
CONDS CONTG BYD 21Z THRU 03Z

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WA5TTURB3

SLCT WA 131542 AMD  
AIRMET TANGO UPDT 6 FOR TURB STG WNDS AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...ID MT WY NV UT CO AZ NM WA OR CA  
FROM 40NNW GTF TO 60WSW RAP TO 30SSW TBE TO 40S FTI TO  
20NW ABQ  
TO 50SSW HBU TO 20W DVC TO 20ESE LAS TO 50ESE CZQ TO  
20NE SAC TO  
60N RBL TO 50S DSD TO 70ENE PDT TO 50SSW FCA TO 40NNW  
GTF  
MOD TURB BLW FL180  
CONDS CONTG BYD 21Z THRU 03Z

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WA5ZICE2

SLCZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL  
132100  
AIRMET ICE...ID MT WY NV UT CO AZ NM WA OR CA AND CSTL  
WTRS  
FROM 40E YDC TO 50WSW YXC TO 60SSW YYN TO 70NE GGW TO  
30ESE DDY  
TO HBU TO 20WNW RSK TO 20ESE INW TO 40NE LAS TO 30WSW  
RZS TO  
70SSW PYE TO 130WNW FOT TO 120WSW ONP TO 20NE HUH TO  
40E YDC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG BYD 21Z  
THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...ICE NV CA AND CSTL WTRS  
BOUNDED BY 70NW FOT-30WSW MOD-50SSW OAK-130WSW  
SNS-160W FOT-70NW  
FOT  
MOD ICE BTN FRZLVL AND FL200  
FRZLVL 070-100  
CONDS DVLPG 21-00Z  
CONDS CONTG THRU 03Z

AREA 2...ICE ID MT WY NV UT CO AZ NM WA OR CA  
AND CSTL WTRS  
BOUNDED BY 30WSW YXC-50NNW ISN-70SSW ISN-30SE  
TCS-50ESE DRK-50ENE

LAS-40WSW EHF-60NW FOT-50SW ONP-30WSW YXC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG THRU  
03Z

FRZLVL...RANGING FROM SFC-125 ACRS AREA  
MULT FRZLVL BLW 080 BOUNDED BY 40SSW ISN-70SW  
RAP-BFF-GLD-  
40SW GLD-30WSW CZI-50E LWT-40SSW ISN  
MULT FRZLVL BLW 110 BOUNDED BY 50SW EUG-60SE EUG-50S  
LKV-  
20SSW REO-30ENE BVL-50NNE TBC-50SSW BTY-20N ENI-80WSW  
OED-  
50SW EUG  
SFC ALG 30NNW FMG-30WSW OAL-30NNW BTY-30SSW ABQ-30S  
FTI-20S  
LAA-40E LAA  
080 ALG 20SE CIM-40E TBE-40WNW LBL  
080 ALG 20WSW BTY-50NNE LAS-30WSW ABQ-20SW FTI-20SSE  
CIM  
120 ALG 20N BZA-20N TUS-50SSW SSO  
120 ALG 50E ELP-20N INK

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WA6SIFR

SFOS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET IFR...WA OR CA AND CSTL WTRS  
FROM 50WSW YXC TO 50SE REO TO 40SE LKV TO 40SSW FMG TO  
40S OAL  
TO 30ENE EHF TO 20S SAC TO 30NW SNS TO 40SW RZS TO  
120WSW RZS TO  
140SW SNS TO 140WSW FOT TO 20NW FOT TO 40NE TOU TO  
50WSW YXC  
CIG BLW 010/VIS BLW 3SM PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

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WA6SMTN

SFOS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET MTN OBSCN...WA OR CA ID MT WY NV UT CO  
FROM 40SSW YQL TO HVR TO 50ESE LWT TO 30NE OCS TO  
50WSW HVE TO  
40S ILC TO 20ENE OAL TO MZB TO LAX TO 40W RZS TO FOT  
TO HQM TO  
TOU TO HUH TO 40SSW YQL  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

OTLK VALID 2100-0300Z...MTN OBSCN WA OR CA ID MT  
WY NV UT CO AZ  
NM  
BOUNDED BY 20NE HUH-40SSW YQL-HVR-CYS-30ENE ALS-50E  
RSK-20ESE  
OAL-20S HEC-60SSE TRM-MZB-30W RZS-PYE-FOT-70WNW  
OED-HQM-TOU-20NE  
HUH  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG THRU 03Z

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WA6TSTG

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET STG SFC WNDZ...CA AND CSTL WTRS  
FROM 40NW FOT TO 30S ENI TO 20NE SNS TO 40SSW RZS TO  
160SW RZS  
TO 120WSW PYE TO 100SW FOT TO 40NW FOT  
SUSTAINED SURFACE WINDS GTR THAN 30KT EXP  
CONDS CONTG BYD 21Z  
ENDG 21-00Z

LLWS POTENTIAL...OR CA ID WY NV UT AZ AND CSTL  
WTRS  
BOUNDED BY 80ESE DSD-70S BKE-50SE BOI-50ESE MLD-30S  
HVE-70SSE  
ILC-BTY-40NE LAX-20W RZS-60SW OAK-60WNW ENI-80NNW  
FOT-50WNW OED-  
80ESE DSD  
LLWS EXP  
CONDS CONTG BYD 21Z THRU 03Z

OTLK VALID 2100-0300Z...TURB OR CA ID MT WY NV  
UT CO AZ NM  
BOUNDED BY 30WNW BIL-30S CZI-60W RAP-30S TBE-60NNW  
CME-20SSW ABQ-  
50S SJN-DRK-20N PGS-50ESE CZQ-20NNE SAC-80SSE  
OED-60SSW DSD-  
30ESE DSD-20NNW REO-40ESE BOI-30WSW LKT-30NNE  
DLN-30WNW BIL  
MOD TURB BLW FL180  
CONDS CONTG THRU 03Z

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WA6TTURB1

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...OR CA ID WY NV UT CO AZ NM AND CSTL WTRS  
FROM 60E DSD TO 70SW RAP TO BFF TO GLD TO 50W LBL TO  
30ESE TBE  
TO INK TO ELP TO 50S TUS TO BZA TO 20S MZB TO 220SW  
MZB TO  
140WSW FOT TO 130WNW FOT TO 60E DSD  
MOD TURB BTN FL200 AND FL400  
CONDS CONTG BYD 21Z THRU 03Z

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WA6TTURB2

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...WA OR CA ID MT WY NV UT CO AZ NM AND  
CSTL WTRS  
FROM YDC TO 50WSW YXC TO 50NNW ISN TO 70SW RAP TO 50E  
DSD TO  
130WNW FOT TO 110WNW ONP TO 140W TOU TO YDC  
MOD TURB BTN FL180 AND FL380  
CONDS CONTG BYD 21Z THRU 03Z

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WA6TTURB3

SFOT WA 131542 AMD

AIRMET TANGO UPDT 4 FOR TURB STG WNDG AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...OR CA AND CSTL WTRS  
FROM 50S DSD TO 60N RBL TO 20NE SAC TO 50ESE CZQ TO  
40SSE BTY TO  
50WNW TRM TO 130WSW MZB TO 170SW RZS TO 130SW PYE TO  
100W OED TO  
30WNW OED TO 50S DSD  
MOD TURB BLW 150  
CONDS CONTG BYD 21Z THRU 03Z

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WA6TTURB4

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDG AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...WA OR CA ID MT WY NV UT CO AZ NM  
FROM 40NNW GTF TO 60WSW RAP TO 30SSW TBE TO 40S FTI TO  
20NW ABQ  
TO 50SSW HBU TO 20W DVC TO 20ESE LAS TO 50ESE CZQ TO  
20NE SAC TO  
60N RBL TO 50S DSD TO 70ENE PDT TO 50SSW FCA TO 40NNW  
GTF  
MOD TURB BLW FL180  
CONDS CONTG BYD 21Z THRU 03Z

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WA6ZICE2

SFOZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL  
132100  
AIRMET ICE...WA OR CA ID MT WY NV UT CO AZ NM AND CSTL  
WTRS  
FROM 40E YDC TO 50WSW YXC TO 60SSW YYN TO 70NE GGW TO  
30ESE DDY  
TO HBU TO 20WNW RSK TO 20ESE INW TO 40NE LAS TO 30WSW  
RZS TO  
70SSW PYE TO 130WNW FOT TO 120WSW ONP TO 20NE HUH TO  
40E YDC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG BYD 21Z  
THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...ICE CA NV AND CSTL WTRS  
BOUNDED BY 70NW FOT-30WSW MOD-50SSW OAK-130WSW  
SNS-160W FOT-70NW  
FOT  
MOD ICE BTN FRZLVL AND FL200  
FRZLVL 070-100  
CONDS DVLPG 21-00Z  
CONDS CONTG THRU 03Z

AREA 2...ICE WA OR CA ID MT WY NV UT CO AZ NM  
AND CSTL WTRS  
BOUNDED BY 30WSW YXC-50NNW ISN-70SSW ISN-30SE  
TCS-50ESE DRK-50ENE  
LAS-40WSW EHF-60NW FOT-50SW ONP-30WSW YXC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG THRU  
03Z

FRZLVL...RANGING FROM SFC-135 ACRS AREA  
MULT FRZLVL BLW 110 BOUNDED BY 50SW EUG-60SE EUG-50S  
LKV-  
20SSW REO-30ENE BVL-50NNE TBC-50SSW BTY-20N ENI-80WSW  
OED-  
50SW EUG  
SFC ALG 50WNW TOU-30SE TOU-40SW SEA-30NNW DSD-50SE  
OED-60NE  
RBL-30NNW FMG  
040 ALG 160NW FOT-120SW ONP-70SSW ONP-50ENE OED  
080 ALG 140WSW FOT-120W FOT-40W FOT-40ENE SAC-60SSW  
OAL-20WSW  
BTY  
120 ALG 140SSW SNS-80SSW RZS-40ESE MZB-20N BZA  
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CZVR VANCOUVER FIR

WA5SIFR

SLCS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET IFR...ID MT WY NV UT  
FROM 50WSW YXC TO 50NNW ISN TO 50W DIK TO 30SSE LWT TO  
30NNE OCS  
TO 60SW MTU TO 30NNW DTA TO 20E ILC TO 60E FMG TO 40S  
OAL TO  
40SSW FMG TO 40SE LKV TO 50SE REO TO 50WSW YXC  
CIG BLW 010/VIS BLW 3SM PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z  
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WA5SMTN

SLCS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET MTN OBSCN...ID MT WY NV UT CO WA OR CA  
FROM 40SSW YQL TO HVR TO 50ESE LWT TO 30NE OCS TO  
50WSW HVE TO  
40S ILC TO 20ENE OAL TO MZB TO LAX TO 40W RZS TO FOT  
TO HQM TO  
TOU TO HUH TO 40SSW YQL  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...IFR ID MT WY NV UT CO NM  
BOUNDED BY 40NW HVR-50NNW ISN-60WSW DIK-50SSW  
BIL-30WSW BOY-  
20WNW LAR-20WNW DEN-50W ALS-40SE DVC-20WSW DTA-30E  
BVL-30NW BVL-  
30ESE ILC-50ENE FMG-40SSW FMG-40SE LKV-50SE REO-30E  
GEG-40NW HVR  
CIG BLW 010/VIS BLW 3SM PCPN/BR  
CONDS CONTG THRU 03Z

AREA 2...MTN OBSCN ID MT WY NV UT CO AZ NM WA OR  
CA  
BOUNDED BY 20NE HUH-40SSW YQL-HVR-CYS-30ENE ALS-50E  
RSK-20ESE  
OAL-20S HEC-60SSE TRM-MZB-30W RZS-PYE-FOT-70WNW  
OED-HQM-TOU-20NE

HUH  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG THRU 03Z

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WA5TTURB2

SLCT WA 131542 AMD  
AIRMET TANGO UPDT 6 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...ID MT WY NV UT CO AZ NM WA OR CA AND  
CSTL WTRS  
FROM YDC TO 50WSW YXC TO 50NNW ISN TO 70SW RAP TO 50E  
DSD TO  
130WNW FOT TO 110WNW ONP TO 140W TOU TO YDC  
MOD TURB BTN FL180 AND FL380  
CONDS CONTG BYD 21Z THRU 03Z

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WA5ZICE2

SLCZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL  
132100  
AIRMET ICE...ID MT WY NV UT CO AZ NM WA OR CA AND CSTL  
WTRS  
FROM 40E YDC TO 50WSW YXC TO 60SSW YYN TO 70NE GGW TO  
30ESE DDY  
TO HBU TO 20WNW RSK TO 20ESE INW TO 40NE LAS TO 30WSW  
RZS TO  
70SSW PYE TO 130WNW FOT TO 120WSW ONP TO 20NE HUH TO  
40E YDC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG BYD 21Z  
THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...ICE NV CA AND CSTL WTRS  
BOUNDED BY 70NW FOT-30WSW MOD-50SSW OAK-130WSW  
SNS-160W FOT-70NW  
FOT  
MOD ICE BTN FRZLVL AND FL200  
FRZLVL 070-100  
CONDS DVLPG 21-00Z  
CONDS CONTG THRU 03Z

AREA 2...ICE ID MT WY NV UT CO AZ NM WA OR CA  
AND CSTL WTRS  
BOUNDED BY 30WSW YXC-50NNW ISN-70SSW ISN-30SE  
TCS-50ESE DRK-50ENE  
LAS-40WSW EHF-60NW FOT-50SW ONP-30WSW YXC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG THRU  
03Z

FRZLVL...RANGING FROM SFC-125 ACRS AREA  
MULT FRZLVL BLW 080 BOUNDED BY 40SSW ISN-70SW  
RAP-BFF-GLD-  
40SW GLD-30WSW CZI-50E LWT-40SSW ISN  
MULT FRZLVL BLW 110 BOUNDED BY 50SW EUG-60SE EUG-50S  
LKV-  
20SSW REO-30ENE BVL-50NNE TBC-50SSW BTY-20N ENI-80WSW  
OED-

50SW EUG  
SFC ALG 30NNW FMG-30WSW OAL-30NNW BTY-30SSW ABQ-30S  
FTI-20S  
LAA-40E LAA  
080 ALG 20SE CIM-40E TBE-40WNW LBL  
080 ALG 20WSW BTY-50NNE LAS-30WSW ABQ-20SW FTI-20SSE  
CIM  
120 ALG 20N BZA-20N TUS-50SSW SSO  
120 ALG 50E ELP-20N INK

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WA6SIFR

SFOS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET IFR...WA OR CA AND CSTL WTRS  
FROM 50WSW YXC TO 50SE REO TO 40SE LKV TO 40SSW FMG TO  
40S OAL  
TO 30ENE EHF TO 20S SAC TO 30NW SNS TO 40SW RZS TO  
120WSW RZS TO  
140SW SNS TO 140WSW FOT TO 20NW FOT TO 40NE TOU TO  
50WSW YXC  
CIG BLW 010/VIS BLW 3SM PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

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WA6SMTN

SFOS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET MTN OBSCN...WA OR CA ID MT WY NV UT CO  
FROM 40SSW YQL TO HVR TO 50ESE LWT TO 30NE OCS TO  
50WSW HVE TO  
40S ILC TO 20ENE OAL TO MZB TO LAX TO 40W RZS TO FOT  
TO HQM TO  
TOU TO HUH TO 40SSW YQL  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

OTLK VALID 2100-0300Z...MTN OBSCN WA OR CA ID MT  
WY NV UT CO AZ  
NM  
BOUNDED BY 20NE HUH-40SSW YQL-HVR-CYS-30ENE ALS-50E  
RSK-20ESE  
OAL-20S HEC-60SSE TRM-MZB-30W RZS-PYE-FOT-70WNW  
OED-HQM-TOU-20NE  
HUH  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG THRU 03Z

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WA6TTURB2

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDS AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...WA OR CA ID MT WY NV UT CO AZ NM AND  
CSTL WTRS  
FROM YDC TO 50WSW YXC TO 50NNW ISN TO 70SW RAP TO 50E  
DSD TO  
130WNW FOT TO 110WNW ONP TO 140W TOU TO YDC  
MOD TURB BTN FL180 AND FL380  
CONDS CONTG BYD 21Z THRU 03Z

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WA6ZICE2

SFOZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL  
132100  
AIRMET ICE...WA OR CA ID MT WY NV UT CO AZ NM AND CSTL  
WTRS  
FROM 40E YDC TO 50WSW YXC TO 60SSW YYN TO 70NE GGW TO  
30ESE DDY  
TO HBU TO 20WNW RSK TO 20ESE INW TO 40NE LAS TO 30WSW  
RZS TO  
70SSW PYE TO 130WNW FOT TO 120WSW ONP TO 20NE HUH TO  
40E YDC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG BYD 21Z  
THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...ICE CA NV AND CSTL WTRS  
BOUNDED BY 70NW FOT-30WSW MOD-50SSW OAK-130WSW  
SNS-160W FOT-70NW  
FOT  
MOD ICE BTN FRZLVL AND FL200  
FRZLVL 070-100  
CONDS DVLPG 21-00Z  
CONDS CONTG THRU 03Z

AREA 2...ICE WA OR CA ID MT WY NV UT CO AZ NM  
AND CSTL WTRS  
BOUNDED BY 30WSW YXC-50NNW ISN-70SSW ISN-30SE  
TCS-50ESE DRK-50ENE  
LAS-40WSW EHF-60NW FOT-50SW ONP-30WSW YXC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG THRU  
03Z

FRZLVL...RANGING FROM SFC-135 ACRS AREA  
MULT FRZLVL BLW 110 BOUNDED BY 50SW EUG-60SE EUG-50S  
LKV-  
20SSW REO-30ENE BVL-50NNE TBC-50SSW BTY-20N ENI-80WSW  
OED-  
50SW EUG  
SFC ALG 50WNW TOU-30SE TOU-40SW SEA-30NNW DSD-50SE  
OED-60NE  
RBL-30NNW FMG  
040 ALG 160NW FOT-120SW ONP-70SSW ONP-50ENE OED  
080 ALG 140WSW FOT-120W FOT-40W FOT-40ENE SAC-60SSW  
OAL-20WSW  
BTY  
120 ALG 140SSW SNS-80SSW RZS-40ESE MZB-20N BZA  
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KZOA OAKLAND UPPER FIR  
WA5SIFR

SLCS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET IFR...ID MT WY NV UT  
FROM 50WSW YXC TO 50NNW ISN TO 50W DIK TO 30SSE LWT TO  
30NNE OCS  
TO 60SW MTU TO 30NNW DTA TO 20E ILC TO 60E FMG TO 40S

OAL TO  
40SSW FMG TO 40SE LKV TO 50SE REO TO 50WSW YXC  
CIG BLW 010/VIS BLW 3SM PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

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WA5SMTN

SLCS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET MTN OBSCN...ID MT WY NV UT CO WA OR CA  
FROM 40SSW YQL TO HVR TO 50ESE LWT TO 30NE OCS TO  
50WSW HVE TO  
40S ILC TO 20ENE OAL TO MZB TO LAX TO 40W RZS TO FOT  
TO HQM TO  
TOU TO HUH TO 40SSW YQL  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...IFR ID MT WY NV UT CO NM  
BOUNDED BY 40NW HVR-50NNW ISN-60WSW DIK-50SSW  
BIL-30WSW BOY-  
20WNW LAR-20WNW DEN-50W ALS-40SE DVC-20WSW DTA-30E  
BVL-30NW BVL-  
30ESE ILC-50ENE FMG-40SSW FMG-40SE LKV-50SE REO-30E  
GEG-40NW HVR  
CIG BLW 010/VIS BLW 3SM PCPN/BR  
CONDS CONTG THRU 03Z

AREA 2...MTN OBSCN ID MT WY NV UT CO AZ NM WA OR  
CA  
BOUNDED BY 20NE HUH-40SSW YQL-HVR-CYS-30ENE ALS-50E  
RSK-20ESE  
OAL-20S HEC-60SSE TRM-MZB-30W RZS-PYE-FOT-70WNW  
OED-HQM-TOU-20NE  
HUH  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG THRU 03Z

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WA5TTURB1

SLCT WA 131542 AMD  
AIRMET TANGO UPDT 6 FOR TURB STG WNDS AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...ID WY NV UT CO AZ NM OR CA AND CSTL WTRS  
FROM 60E DSD TO 70SW RAP TO BFF TO GLD TO 50W LBL TO  
30ESE TBE  
TO INK TO ELP TO 50S TUS TO BZA TO 20S MZB TO 220SW  
MZB TO  
140WSW FOT TO 130WNW FOT TO 60E DSD  
MOD TURB BTN FL200 AND FL400  
CONDS CONTG BYD 21Z THRU 03Z

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WA5TTURB3

SLCT WA 131542 AMD  
AIRMET TANGO UPDT 6 FOR TURB STG WNDS AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...ID MT WY NV UT CO AZ NM WA OR CA  
FROM 40NNW GTF TO 60WSW RAP TO 30SSW TBE TO 40S FTI TO  
20NW ABQ  
TO 50SSW HBU TO 20W DVC TO 20ESE LAS TO 50ESE CZQ TO  
20NE SAC TO

60N RBL TO 50S DSD TO 70ENE PDT TO 50SSW FCA TO 40NNW  
GTF  
MOD TURB BLW FL180  
CONDS CONTG BYD 21Z THRU 03Z

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WA5ZICE1

SLCZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL  
132100  
AIRMET ICE...NV AZ CA AND CSTL WTRS  
FROM 70SSW PYE TO 30WSW RZS TO 40NE LAS TO 20ESE INW  
TO SSO TO  
50S TUS TO BZA TO 20S MZB TO 220SW MZB TO 210SSW RZS  
TO 110SW RZS  
TO 70SSW PYE  
MOD ICE BTN FRZLVL AND FL240  
FRZLVL 080-110  
CONDS CONTG BYD 21Z  
ENDG 21-00Z

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WA5ZICE2

SLCZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL  
132100  
AIRMET ICE...ID MT WY NV UT CO AZ NM WA OR CA AND CSTL  
WTRS  
FROM 40E YDC TO 50WSW YXC TO 60SSW YYN TO 70NE GGW TO  
30ESE DDY  
TO HBU TO 20WNW RSK TO 20ESE INW TO 40NE LAS TO 30WSW  
RZS TO  
70SSW PYE TO 130WNW FOT TO 120WSW ONP TO 20NE HUH TO  
40E YDC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG BYD 21Z  
THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...ICE NV CA AND CSTL WTRS  
BOUNDED BY 70NW FOT-30WSW MOD-50SSW OAK-130WSW  
SNS-160W FOT-70NW  
FOT  
MOD ICE BTN FRZLVL AND FL200  
FRZLVL 070-100  
CONDS DVLPG 21-00Z  
CONDS CONTG THRU 03Z

AREA 2...ICE ID MT WY NV UT CO AZ NM WA OR CA  
AND CSTL WTRS  
BOUNDED BY 30WSW YXC-50NNW ISN-70SSW ISN-30SE  
TCS-50ESE DRK-50ENE  
LAS-40WSW EHF-60NW FOT-50SW ONP-30WSW YXC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG THRU  
03Z

FRZLVL...RANGING FROM SFC-125 ACRS AREA  
MULT FRZLVL BLW 080 BOUNDED BY 40SSW ISN-70SW  
RAP-BFF-GLD-  
40SW GLD-30WSW CZI-50E LWT-40SSW ISN

MULT FRZLVL BLW 110 BOUNDED BY 50SW EUG-60SE EUG-50S  
LKV-  
20SSW REO-30ENE BVL-50NNE TBC-50SSW BTY-20N ENI-80WSW  
OED-  
50SW EUG  
SFC ALG 30NNW FMG-30WSW OAL-30NNW BTY-30SSW ABQ-30S  
FTI-20S  
LAA-40E LAA  
080 ALG 20SE CIM-40E TBE-40WNW LBL  
080 ALG 20WSW BTY-50NNE LAS-30WSW ABQ-20SW FTI-20SSE  
CIM  
120 ALG 20N BZA-20N TUS-50SSW SSO  
120 ALG 50E ELP-20N INK

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WA6SIFR

SFOS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET IFR...WA OR CA AND CSTL WTRS  
FROM 50WSW YXC TO 50SE REO TO 40SE LKV TO 40SSW FMG TO  
40S OAL  
TO 30ENE EHF TO 20S SAC TO 30NW SNS TO 40SW RZS TO  
120WSW RZS TO  
140SW SNS TO 140WSW FOT TO 20NW FOT TO 40NE TOU TO  
50WSW YXC  
CIG BLW 010/VIS BLW 3SM PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

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WA6SMTN

SFOS WA 131445  
AIRMET SIERRA UPDT 2 FOR IFR AND MTN OBSCN VALID UNTIL  
132100  
AIRMET MTN OBSCN...WA OR CA ID MT WY NV UT CO  
FROM 40SSW YQL TO HVR TO 50ESE LWT TO 30NE OCS TO  
50WSW HVE TO  
40S ILC TO 20ENE OAL TO MZB TO LAX TO 40W RZS TO FOT  
TO HQM TO  
TOU TO HUH TO 40SSW YQL  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG BYD 21Z THRU 03Z

OTLK VALID 2100-0300Z...MTN OBSCN WA OR CA ID MT  
WY NV UT CO AZ  
NM  
BOUNDED BY 20NE HUH-40SSW YQL-HVR-CYS-30ENE ALS-50E  
RSK-20ESE  
OAL-20S HEC-60SSE TRM-MZB-30W RZS-PYE-FOT-70WNW  
OED-HQM-TOU-20NE  
HUH  
MTNS OBSC BY CLDS/PCPN/BR  
CONDS CONTG THRU 03Z

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WA6TSTG

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET STG SFC WNDZ...CA AND CSTL WTRS  
FROM 40NW FOT TO 30S ENI TO 20NE SNS TO 40SSW RZS TO  
160SW RZS  
TO 120WSW PYE TO 100SW FOT TO 40NW FOT  
SUSTAINED SURFACE WINDS GTR THAN 30KT EXP

CONDS CONTG BYD 21Z  
ENDG 21-00Z

LLWS POTENTIAL...OR CA ID WY NV UT AZ AND CSTL  
WTRS  
BOUNDED BY 80ESE DSD-70S BKE-50SE BOI-50ESE MLD-30S  
HVE-70SSE  
ILC-BTY-40NE LAX-20W RZS-60SW OAK-60WNW ENI-80NNW  
FOT-50WNW OED-  
80ESE DSD  
LLWS EXP  
CONDS CONTG BYD 21Z THRU 03Z

OTLK VALID 2100-0300Z...TURB OR CA ID MT WY NV  
UT CO AZ NM  
BOUNDED BY 30WNW BIL-30S CZI-60W RAP-30S TBE-60NNW  
CME-20SSW ABQ-  
50S SJN-DRK-20N PGS-50ESE CZQ-20NNE SAC-80SSE  
OED-60SSW DSD-  
30ESE DSD-20NNW REO-40ESE BOI-30WSW LKT-30NNE  
DLN-30WNW BIL  
MOD TURB BLW FL180  
CONDS CONTG THRU 03Z

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WA6TTURB1

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...OR CA ID WY NV UT CO AZ NM AND CSTL WTRS  
FROM 60E DSD TO 70SW RAP TO BFF TO GLD TO 50W LBL TO  
30ESE TBE  
TO INK TO ELP TO 50S TUS TO BZA TO 20S MZB TO 220SW  
MZB TO  
140WSW FOT TO 130WNW FOT TO 60E DSD  
MOD TURB BTN FL200 AND FL400  
CONDS CONTG BYD 21Z THRU 03Z

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WA6TTURB3

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...OR CA AND CSTL WTRS  
FROM 50S DSD TO 60N RBL TO 20NE SAC TO 50ESE CZQ TO  
40SSE BTY TO  
50WNW TRM TO 130WSW MZB TO 170SW RZS TO 130SW PYE TO  
100W OED TO  
30WNW OED TO 50S DSD  
MOD TURB BLW 150  
CONDS CONTG BYD 21Z THRU 03Z

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WA6TTURB4

SFOT WA 131542 AMD  
AIRMET TANGO UPDT 4 FOR TURB STG WNDZ AND LLWS VALID  
UNTIL 132100  
AIRMET TURB...WA OR CA ID MT WY NV UT CO AZ NM  
FROM 40NNW GTF TO 60WSW RAP TO 30SSW TBE TO 40S FTI TO  
20NW ABQ  
TO 50SSW HBU TO 20W DVC TO 20ESE LAS TO 50ESE CZQ TO  
20NE SAC TO  
60N RBL TO 50S DSD TO 70ENE PDT TO 50SSW FCA TO 40NNW  
GTF

MOD TURB BLW FL180  
CONDS CONTG BYD 21Z THRU 03Z

.=

WA6ZICE1

SFOZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL  
132100  
AIRMET ICE...CA NV AZ AND CSTL WTRS  
FROM 70SSW PYE TO 30WSW RZS TO 40NE LAS TO 20ESE INW  
TO SSO TO  
50S TUS TO BZA TO 20S MZB TO 220SW MZB TO 210SSW RZS  
TO 110SW RZS  
TO 70SSW PYE  
MOD ICE BTN FRZLVL AND FL240  
FRZLVL 080-110  
CONDS CONTG BYD 21Z  
ENDG 21-00Z

.=

WA6ZICE2

SFOZ WA 131445  
AIRMET ZULU UPDT 2 FOR ICE AND FRZLVL VALID UNTIL  
132100  
AIRMET ICE...WA OR CA ID MT WY NV UT CO AZ NM AND CSTL  
WTRS  
FROM 40E YDC TO 50WSW YXC TO 60SSW YYN TO 70NE GGW TO  
30ESE DDY  
TO HBU TO 20WNW RSK TO 20ESE INW TO 40NE LAS TO 30WSW  
RZS TO  
70SSW PYE TO 130WNW FOT TO 120WSW ONP TO 20NE HUH TO  
40E YDC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG BYD 21Z  
THRU 03Z

OTLK VALID 2100-0300Z  
AREA 1...ICE CA NV AND CSTL WTRS  
BOUNDED BY 70NW FOT-30WSW MOD-50SSW OAK-130WSW  
SNS-160W FOT-70NW  
FOT  
MOD ICE BTN FRZLVL AND FL200  
FRZLVL 070-100  
CONDS DVLPG 21-00Z  
CONDS CONTG THRU 03Z

AREA 2...ICE WA OR CA ID MT WY NV UT CO AZ NM  
AND CSTL WTRS  
BOUNDED BY 30WSW YXC-50NNW ISN-70SSW ISN-30SE  
TCS-50ESE DRK-50ENE  
LAS-40WSW EHF-60NW FOT-50SW ONP-30WSW YXC  
MOD ICE BTN FRZLVL AND FL250  
FRZLVL SFC-080  
CONDS CONTG THRU  
03Z

FRZLVL...RANGING FROM SFC-135 ACRS AREA  
MULT FRZLVL BLW 110 BOUNDED BY 50SW EUG-60SE EUG-50S  
LKV-  
20SSW REO-30ENE BVL-50NNE TBC-50SSW BTY-20N ENI-80WSW  
OED-  
50SW EUG

SFC ALG 50WNW TOU-30SE TOU-40SW SEA-30NNW DSD-50SE  
OED-60NE  
RBL-30NNW FMG  
040 ALG 160NW FOT-120SW ONP-70SSW ONP-50ENE OED  
080 ALG 140WSW FOT-120W FOT-40W FOT-40ENE SAC-60SSW  
OAL-20WSW  
BTY  
120 ALG 140SSW SNS-80SSW RZS-40ESE MZB-20N BZA  
...=

Tropical Cyclone Advisory:  
No Wx data available

Volcanic Ash SIGMETs:  
No Wx data available

Volcanic Ash Advisory:  
No Wx data available

AIRPORTLIST ENDED

## [ NOTAM ]

-----  
LIDO-NOTAM-BULLETIN INCLUDES NOTAM, COMP NOTAM AND AIP-REGULATION  
VALID: 1902131930 - 1902140149 STD(EOBT)+TRIP+ALTN+3HRS  
CPZ5763/13FEB OFP-NR: 1  
ROUTE: KSNA - KSEA ALTN:KRDM  
N0455F340 HHER03 EHF DCT SHIMR DCT LKV HAWKZ7  
=====

DEPARTURE AIRPORT  
=====

KSNA /SNA SANTA ANA/JOHN WAYNE-ORANGE CO /ESC AP - DETAILED INFO  
-----

+++++ AIRPORT ++++++

1A114/19 VALID: 13-FEB-19 1700 - 20-FEB-19 1715 EST

IRVINE FOUR DEPARTURE...

MUSEL EIGHT DEPARTURE...

DAGGETT TRANSITION NA EXCEPT FOR AIRCRAFT EQUIPPED WITH SUITABLE  
RNAV SYSTEM WITH GPS,

DAG **VORTAC U/S**

1A101/19 VALID: 08-FEB-19 1540 - 28-MAR-19 1540 EST

ANAHEIM ONE DEPARTURE ...

LAKE HUGHES TRANSITION: NOT AUTH EXC FOR ACFT EQUIPPED WITH  
SUITABLE RNAV SYSTEM WITH GPS,

LHS **VORTAC U/S**

1A1224/18 VALID: 31-DEC-18 2056 - 28-FEB-19 1415

**TWY A** WIP STEEL PLATES AT **TWY H**

1A866/18 VALID: 30-AUG-18 2001 - 11-APR-19 2001 EST

PLZZA ONE DEPARTURE (RNAV) ...

DISREGARD NOTE: THIS DEPARTURE PROCEDURE NOT AUTHORIZED FOR  
TURBO-PROP OR TURBO-JET AIRCRAFT. NOTE: THIS DEPARTURE PROCEDURE  
NOT AUTHORIZED FOR TURBO-JET AIRCRAFT. NOTE: LHS TRANSITION NOT  
AUTHORIZED FOR TURBO-PROP AIRCRAFT

1A853/17 VALID: 22-OCT-17 0650 - PERM

CPDLC DEP CLR LOGON CHANGED TO KUSA

+++++ SID/STAR ++++++

1A1181/18 VALID: 12-DEC-18 2112 - 12-DEC-20 2112 EST

IRVINE FOUR DEPARTURE...

DEPARTURE PROCEDURE NA.

1A1028/18 VALID: 23-OCT-18 1807 - 04-JUN-19 1807 EST

STAYY ONE DEPARTURE...

ATC ASSIGNED ONLY.

## =====

DESTINATION AIRPORT  
=====

KSEA /SEA SEATTLE-TACOMA INTL /ESC AP - DETAILED INFO  
-----

+++++ APPROACH PROCEDURE ++++++

1A189/19 VALID: 24-JAN-19 1227 - 31-MAR-19 1227 EST

RNAV (RNP) Z **RWY 34R**, AMDT 1A...

RNP 0.28 DA 784/ HAT 412 ALL CATS. TEMPORARY CRANE 671 MSL  
3973FT NORTHEAST OF **RWY 34C** (2017-ANM-1706-NRA), TEMPORARY CRANE  
660MSL 4337FT NORTHEAST OF **RWY 34C** (2017-ANM-1710-NRA).

1A187/19 VALID: 24-JAN-19 1227 - 31-MAR-19 1227 EST

RNAV (RNP) Z **RWY 34C**, AMDT 2A...

RNP 0.30 DA 815/ HAT 428 ALL CATS. TEMPORARY CRANE 671 MSL 3377FT  
EAST OF **RWY 34C** (2017-ANM-1706-NRA), TEMPORARY CRANE 660 MSL  
3663FT

NORTHEAST OF **RWY 34C** (2017-ANM-1710-NRA).

1A3563/18 VALID: 19-NOV-18 0800 - 16-JUL-19 0800 EST

RNAV (RNP) Z **RWY 16C**, AMDT 1A...

RNP 0.30 DA 853/ HAT 423 ALL CATS. TEMPO CRANE 634 MSL 3069FT  
EAST OF **RWY 16C** (2018-ANM-1531-NRA).

1A3562/18 VALID: 19-NOV-18 0800 - 16-JUL-19 0800 EST

RNAV (GPS) Y **RWY 16L**, AMDT 5B...

LNAV/VNAV DA 795/ HAT 363 ALL CATS. LNAV MDA 900/ HAT 468 ALL  
CATS,  
VISIBILITY CATS C/D RVR 5000. VDP 1.21 NM TO RW16L. TEMPORARY  
CRANE

634 MSL 2270FT EAST OF **RWY 16L** (2018-ANM-1531-NRA).

+++++ AIRPORT +++++

1A974/19 VALID: 12-FEB-19 2359 - 12-MAR-19 2359 EST

**ILS OR LOC RWY 16C**, AMDT 16A...

**ILS OR LOC RWY 16L**, AMDT 7A...

**ILS OR LOC RWY 16R**, AMDT 4A...

**ILS RWY 16C** (SPECIAL AUTH CAT I), AMDT 16A... **ILS RWY 16C** (SPECIAL  
AUTH CAT II AND III), AMDT 16A... **ILS RWY 16L** (SPECIAL AUTH CAT  
I),

AMDT 7A... **ILS RWY 16L**

(SPECIAL AUTH CAT II AND III), AMDT 7A... **ILS RWY 16R** (SPECIAL  
AUTH

CAT I), AMDT 4A...

**ILS RWY 16R** (SPECIAL AUTH CAT II AND III), AMDT 4A.

RADAR REQUIRED FOR PROC ENTRY EXC FOR ACFT EQUIPPED  
WITH SUITABLE RNAV SYSTEM WITH GPS,

PAE **VOR U/S**.

1A973/19 VALID: 12-FEB-19 2359 - 12-MAR-19 2359 EST

SUMMA ONE DEPARTURE...

DEPARTURE PROCEDURE TAKEOFF **RWY 34L**, 34C, 34R NOT AUTH EXCEPT FOR  
AIRCRAFT EQUIPPED WITH SUITABLE RNAV SYSTEM WITH GPS,

PAE **VOR U/S**

1A205/19 VALID: 30-JAN-19 0632 - 30-MAR-19 0800

**TWY A** SAFETY AREA NOT STD

1A3941/18 VALID: 29-DEC-18 1337 - 30-JAN-20 0800

NORTH SATELLITE TXL **CLSD** TO ACFT WINGSPAN MORE THAN  
118FT AND TAIL HGT MORE THAN 45FT NORTH SIDE

+++++ SID/STAR +++++

1A182/19 VALID: 23-JAN-19 1749 - 23-JAN-21 1749 EST

SUMMA ONE DEPARTURE...

TAKE-OFF MINIMUMS **RWY 16L**: 300-1 OR STANDARD WITH MINIMUM CLIMB OR  
425FT PER NM TO 600.

TAKE-OFF MINIMUMS **RWY 16R**: 300-1 1/4 OR STANDARD WITH MINIMUM  
CLIMB

OF 215FT PER NM TO 600.

ALL OTHER DATA REMAINS AS PUBLISHED.

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DESTINATION ALTERNATE(S)

=====

KRDM /RDM REDMOND/ROBERTS FIELD

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+++++ RUNWAY +++++

1A947/18 VALID: 27-NOV-18 0413 - PERM

**RWY 29** PAPI BEYOND 5.0NM OF **RWY** THR **UNUSABLE**

1A946/18 VALID: 27-NOV-18 0057 - PERM

**RWY 29** PAPI COMMISSIONED

1A944/18 VALID: 26-NOV-18 2209 - PERM

**RWY 11** PAPI COMMISSIONED

=====

ESCAPE AIRPORT(S)

=====

KMFR /MFR MEDFORD/ROGUE VALLEY INTL

-----

+++++ RUNWAY +++++

1A11/19 VALID: 09-JAN-19 1616 - PERM

**ILS RWY 14 OM** DECOMMISSIONED

1A10/19 VALID: 09-JAN-19 1613 - PERM

**ILS RWY 14 PUMIE LOM** DECOMMISSIONED

DA1008/19 VALID: 09-JAN-19 1616 - PERM

MFR 01/008 MFR NAV **ILS RWY 14 OM** DECOMMISSIONED 1901091616-PERM

DA1007/19 VALID: 09-JAN-19 1613 - PERM

MFR 01/007 MFR NAV **ILS RWY 14 PUMIE LOM** DECOMMISSIONED

1901091613-PERM

+++++ APPROACH PROCEDURE +++++

1A25/19 VALID: 01-FEB-19 1816 - 27-FEB-19 2100 EST

**ILS RWY 14 DME** NOT MNT

DA2001/19 VALID: 01-FEB-19 1816 - 27-FEB-19 2100

MFR 02/001 MFR NAV **ILS RWY 14 DME** NOT MNT 1902011816-1902272100EST

=====

EXTENDED AREA AROUND DEPARTURE

=====

KZLA LOS ANGELES LOWER FIR

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DA8818/16 VALID: 23-MAR-16 1538 - PERM

FDC 6/8818 FDC ...SPECIAL NOTICE...IN THE INTEREST OF NATIONAL  
SECURITY AND TO THE EXTENT PRACTICABLE, PILOTS AND UAS OPERATORS  
ARE

STRONGLY ADVISED TO AVOID THE AIRSPACE ABOVE OR IN CLOSE PROXIMITY  
TO CRITICAL INFRASTRUCTURE AND OTHER SENSITIVE LOCATIONS SUCH AS  
POWER PLANTS (NUCLEAR, HYDRO-ELECTRIC, OR COAL), DAMS, REFINERIES,  
INDUSTRIAL COMPLEXES, MILITARY FACILITIES, CORRECTIONAL AND LAW  
ENFORCEMENT FACILITIES UNLESS OTHERWISE AUTHORIZED. PILOTS AND UAS  
OPERATORS SHOULD NOT CIRCLE AS TO LOITER IN THE VICINITY OVER  
THESE

TYPES OF FACILITIES.

1603231538-PERM

KZLA LOS ANGELES UPPER FIR

-----

NIL

VCV VICTORVILLE

-----

1A47/18 VALID: 06-JUN-18 1455 - 06-MAR-19 2100 EST

VICTORVILLE **DME** VCV CH27Y **OUT OF SERVICE**

W291 EAST 121 NORTH 3030

-----

1A368/19 VALID: 12-FEB-19 1430 - 19-FEB-19 1430

W291 **ACT**, EAST OF 121 DEGREES WEST

LONGITUDE AND NORTH OF 30.5 DEGREES NORTH LATITUDE. THIS  
MAY NOT BE THE ONLY AIRSPACE ACTIVATION WITHIN W291.

OPERATORS ARE ADVISED THAT ADDITIONAL NOTAMS MIGHT EXIST  
FOR CLOSURE OF OTHER PORTIONS OF W291.

F) SFC G) FL800

1A82/19 VALID: 08-JAN-19 1430 - PERM

WARNING AREA W291 **ACT** EAST OF 121 DEGREES WEST LONGITUDE AND NORTH OF 30.5 DEGREES NORTH LATITUDE. THIS MAY NOT BE THE ONLY AIRSPACE ACTIVATION WITHIN W-291. OPERATORS ARE ADVISED THAT ADDITIONAL NOTAMS MIGHT EXIST FOR THE CLOSURE OF OTHER PORTIONS OF W-291.

F) SFC G) FL800

GPS 270NM 352119N 1163405W

-----  
1A378/19 VALID: 13-FEB-19 0800 - 13-FEB-19 2230

0800-1400, 1830-2230

GPS (NTC GPS 19-02H) (INCLUDING WAAS, GBAS, AND ADS-B) MAY NOT BE AVBL WI A 270NM RADIUS CENTERED AT 352119N1163405W

(HEC 339034) FL400-UNL,  
221NM RADIUS AT FL250,  
148NM RADIUS AT 10000FT,  
111NM RADIUS AT 4000FT AGL,  
87NM RADIUS AT 50FT AGL,

1A105/19 VALID: 13-FEB-19 0800 - 13-FEB-19 2230

0800-1400, 1830-2230

GPS (NTC GPS 19-02H) (INCLUDING WAAS, GBAS, AND ADS-B) MAY NOT BE AVBL WI A 270NM RADIUS CENTERED AT 352119N1163405W

(HEC 339034) FL400-UNL,  
221NM RADIUS AT FL250,  
148NM RADIUS AT 10000FT,  
111NM RADIUS AT 4000FT AGL,  
87NM RADIUS AT 50FT AGL,

1A62/19 VALID: 13-FEB-19 0800 - 13-FEB-19 2230

0800-1400, 1830-2230

GPS (NTC GPS 19-02H) (INCLUDING WAAS, GBAS, AND ADS-B) MAY NOT BE AVBL WI A 270NM RADIUS CENTERED AT 352119N1163405W

(HEC 339034) FL400-UNL,  
221NM RADIUS AT FL250,  
148NM RADIUS AT 10000FT,  
111NM RADIUS AT 4000FT AGL,  
87NM RADIUS AT 50FT AGL,

1A38/19 VALID: 13-FEB-19 0800 - 13-FEB-19 2230

0800-1400, 1830-2230

GPS (NTC GPS 19-02H) (INCLUDING WAAS, GBAS, AND ADS-B) MAY NOT BE AVBL WI A 270NM RADIUS CENTERED AT 352119N1163405W

(HEC 339034) FL400-UNL,  
221NM RADIUS AT FL250,  
148NM RADIUS AT 10000FT,  
111NM RADIUS AT 4000FT AGL,  
87NM RADIUS AT 50FT AGL,

1A17/19 VALID: 13-FEB-19 0800 - 13-FEB-19 2230

0800-1400, 1830-2230

GPS (NTC GPS 19-02H) (INCLUDING WAAS, GBAS, AND ADS-B) MAY NOT BE AVBL WI A 270NM RADIUS CENTERED AT 352119N1163405W

(HEC 339034) FL400-UNL,  
221NM RADIUS AT FL250,  
148NM RADIUS AT 10000FT,  
111NM RADIUS AT 4000FT AGL,  
87NM RADIUS AT 50FT AGL,

GPS 127NM 352119N 1163405W

-----  
1A379/19 VALID: 13-FEB-19 1700 - 13-FEB-19 2359

1700-1830, 2230-2359

GPS (NTC GPS 19-02M) (INCLUDING WAAS, GBAS, AND  
ADS-B) MAY NOT BE AVBL WI A 127NM RADIUS CENTERED AT  
352119N1163405W(HEC 339034) FL400-UNL,  
125NM RADIUS AT FL250,  
113NM RADIUS AT 10000FT,  
105NM RADIUS AT 4000FT AGL,  
85NM RADIUS AT 50FT AGL,

1A106/19 VALID: 13-FEB-19 1700 - 13-FEB-19 2359

1700-1830, 2230-2359

GPS (NTC GPS 19-02M) (INCLUDING WAAS, GBAS, AND  
ADS-B) MAY NOT BE AVBL WI A 127NM RADIUS CENTERED AT  
352119N1163405W(HEC 339034) FL400-UNL,  
125NM RADIUS AT FL250,  
113NM RADIUS AT 10000FT,  
105NM RADIUS AT 4000FT AGL,  
85NM RADIUS AT 50FT AGL,=====  
AREA ENROUTE DEPARTURE - DESTINATION  
=====

KZOA OAKLAND LOWER FIR

-----  
NIL

KZOA OAKLAND UPPER FIR

-----  
NIL=====  
EXTENDED AREA AROUND DESTINATION  
=====

PAE PAINE

-----  
1A585/19 VALID: 13-FEB-19 1302 - 20-FEB-19 2100 EST**VOR** PAE/PAINE FREQ 110.6 MHZ **U/S**

KZSE SEATTLE LOWER FIR

-----  
1A879/19 VALID: 10-FEB-19 1810 - 25-FEB-19 2200 EST

ADS-B, AUTO DEPENDENT SURVEILLANCE

REBROADCAST (ADS-R), TFC INFO SERVICE BCST (TIS-B), FLT INFO  
SERVICE BCST (FIS-B) SERVICES MAY NOT BE AVBL WI AN AREA DEFINED  
AS55NM RADIUS OF 450637N1201038W. AP AIRSPACE AFFECTED INCLUDES DLS,  
9S9, 3S9. SFC/5000FT

1A5808/18 VALID: 06-NOV-18 1804 - 01-MAR-19 2359

KINGSLEY APP **CLSD**

KZSE SEATTLE UPPER FIR

-----  
NIL

CZVR VANCOUVER FIR

NIL

AREA ENROUTE DESTINATION - DESTINATION ALTERNATE(S)

EXTENDED AREA AROUND DESTINATION ALTERNATE AIRPORT(S)

===== END OF LIDO-NOTAM-BULLETIN =====

[ Company NOTAM ]

=====

CREW ALERT

=====

C039/15

\*\*\*\*\*

OPS INDEX -2.60

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C025/17 COMPANY NOTAM

USE CALENDAR DATE TO INITIALIZE FMS

=====

CREW BULLETIN

=====

DISPATCH SIGNATURE

"BY ELECTRONICALLY SIGNING THIS DISPATCH RELEASE, VIA APPROVED  
OPS SPEC A025, I AM AFFIRMING MY BELIEF THAT THIS FLIGHT CAN BE  
MADE WITH SAFETY

=====

SNA OPERATIONS\_

SNA ARRIVALS MUST REPORT TRANSPONDER CODE TO

DL OPS WHEN IN RANGE.

SNA DEPARTURES USE NADP1 PER AOM 3-120.2

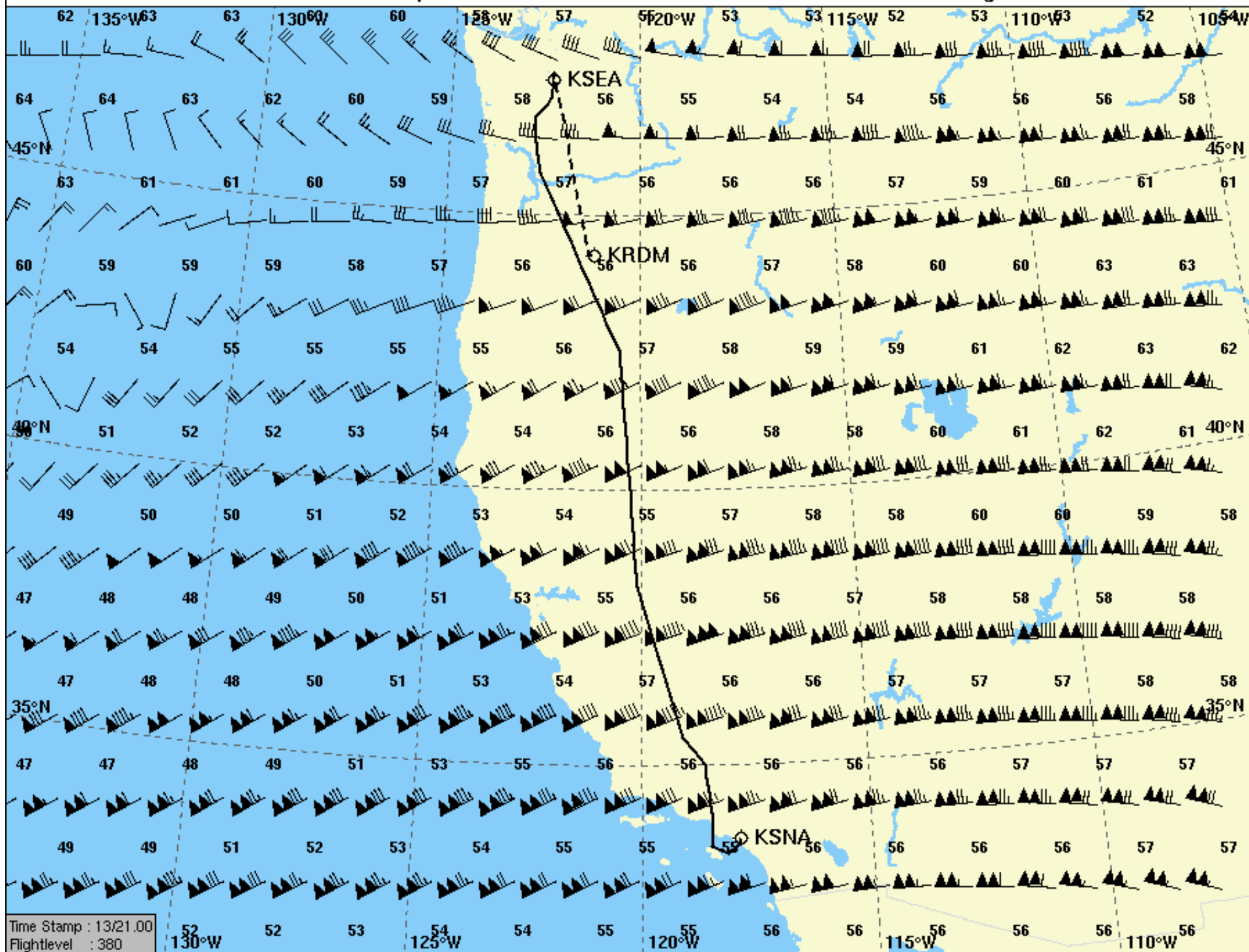
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WINTER KIT AVAILABILITY

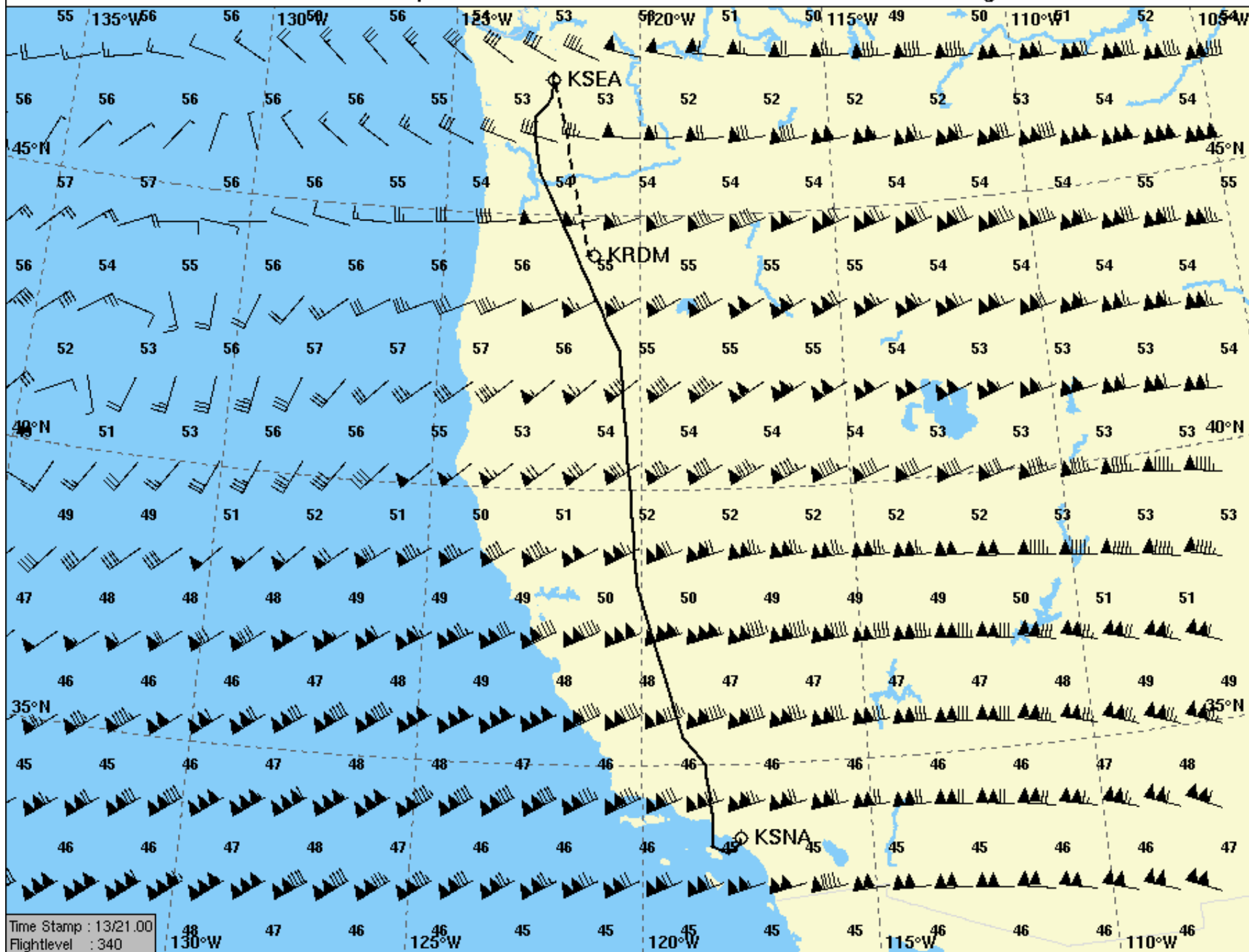
4 WINTERIZATION KITS AVAILABLE IN KSEA FOR DELTA AIRCRAFT

===== END OF LIDO-COMPANY-NOTAM-BULLETIN =====

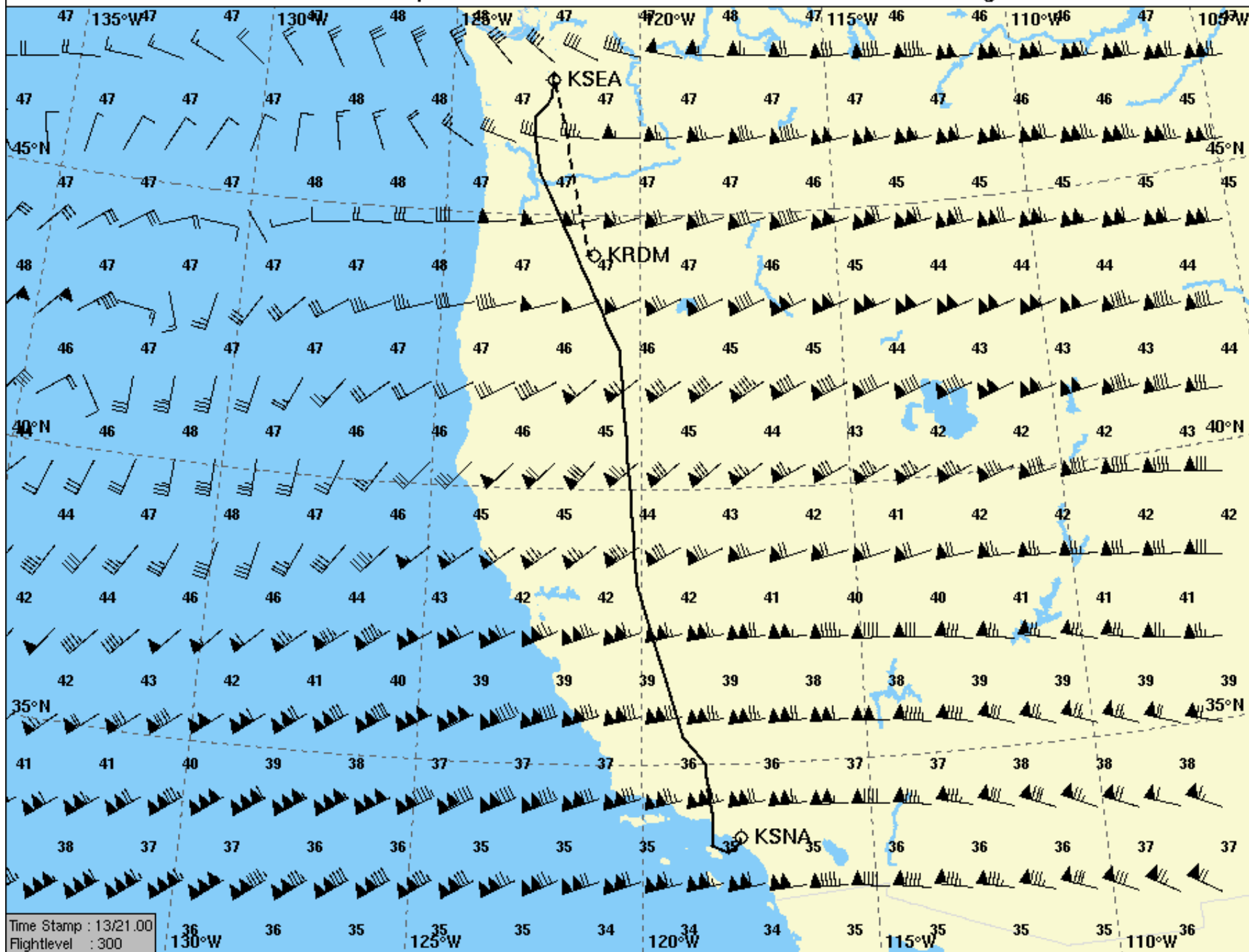
Airline:CP Flt-No.:5763 13Feb Dep:KSNA STD:131930 STA:132228 Dest:KSEA Reg:N613CZ OFP:1



Airline:CP Flt-No.:5763 13Feb Dep:KSNA STD:131930 STA:132228 Dest:KSEA Reg:N613CZ OFP:1



Airline:CP Flt-No.:5763 13Feb Dep:KSNA STD:131930 STA:132228 Dest:KSEA Reg:N613CZ OFP:1



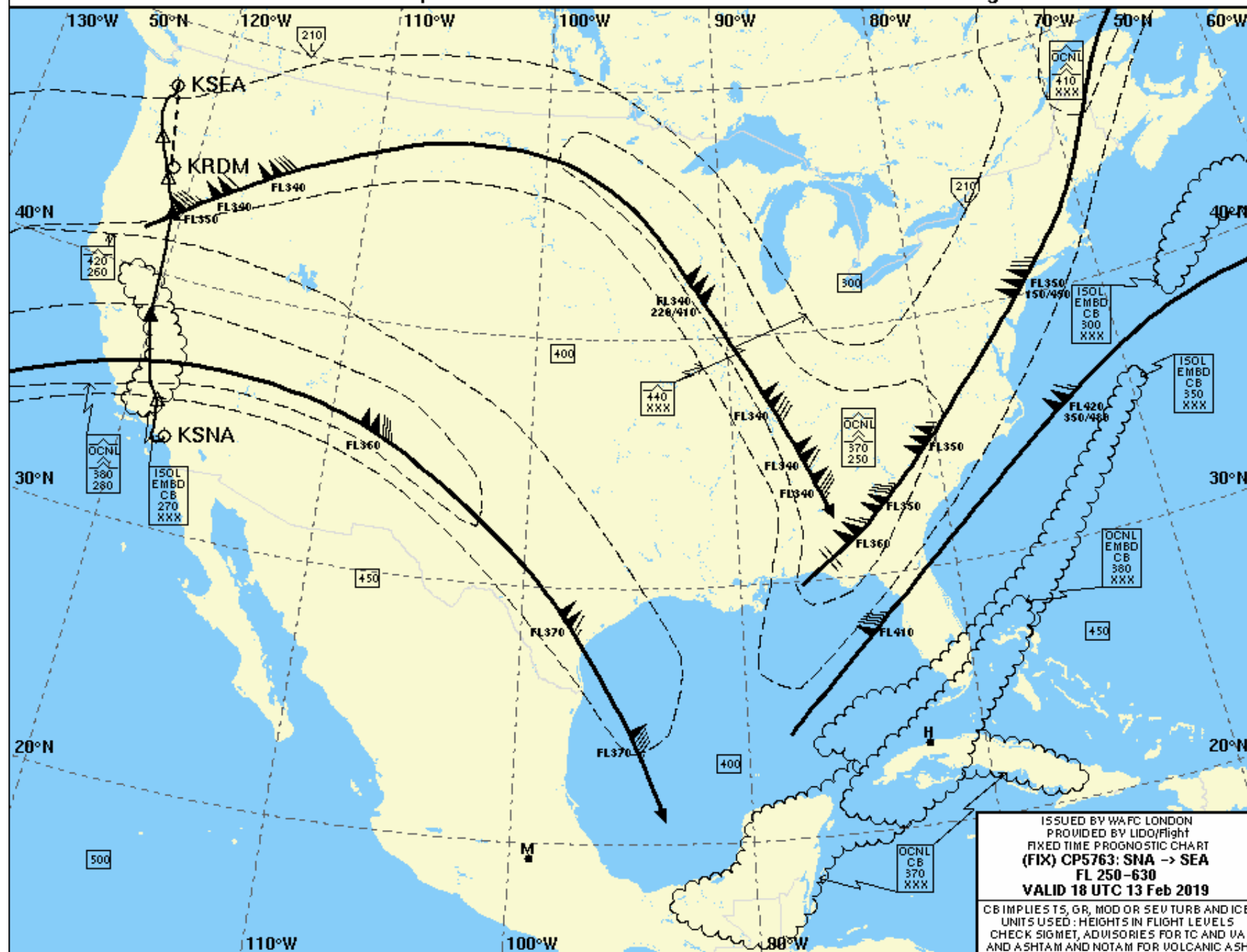
ISSUED BY WAFB LONDON  
 PROVIDED BY LIDO/flight  
 FIXED TIME PROGNOSTIC CHART  
 (ENT) CP5763: SNA -> SEA  
 FL 250-630  
 VALID 18 UTC 13 Feb 2019

CB IMPLIES TS, GR, MOD OR SEV TURB AND ICE  
 UNITS USED: HEIGHTS IN FLIGHT LEVELS  
 CHECK SIGMET, ADVISORIES FOR TC AND VA  
 AND A-SHTAM AND NOTAM FOR VOLCANIC ASH

ISSUED BY WAFC LONDON  
PROVIDED BY LIDO/Flight  
FIXED TIME PROGNOSTIC CHART  
(ENT) CP5763: SNA -> SEA  
FL 250-630  
VALID 18 UTC 13 Feb 2019

CB IMPLIES TS, GR, MOD OR SEV TURB AND ICE  
UNITS USED: HEIGHTS IN FLIGHT LEVELS  
CHECK SIGMET, ADVISORIES FOR TC AND VA  
AND ASHTAM AND NOTAM FOR VOLCANIC ASH

Airline:CP Flt-No.:5763 13Feb Dep:KSNA STD:131930 STA:132228 Dest:KSEA Reg:N613CZ OFP:1



[ official VAA/TCA ]

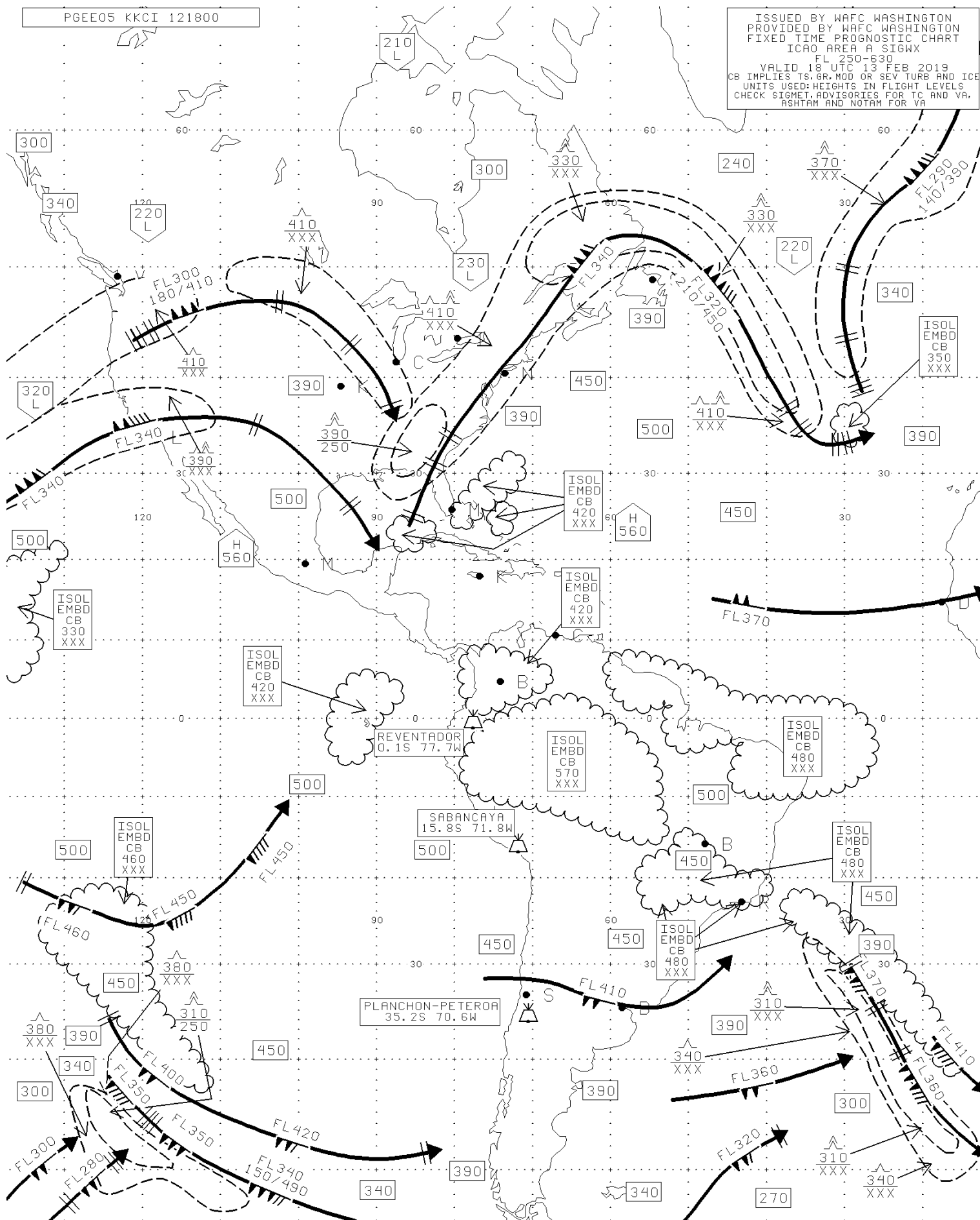
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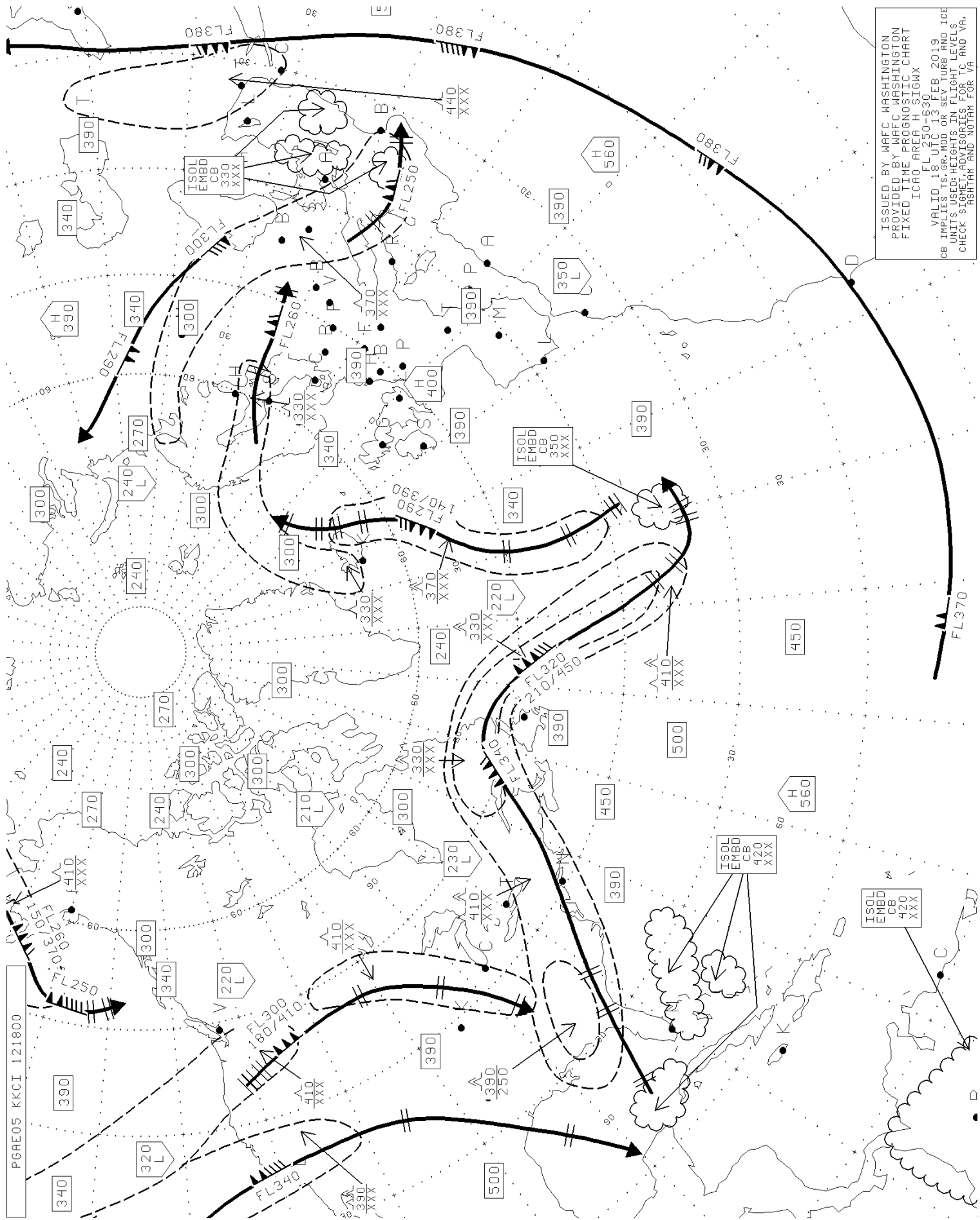
[ CDA ]

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Information not available.

|                    |
|--------------------|
| PGEE05 KKCI 121800 |
|--------------------|

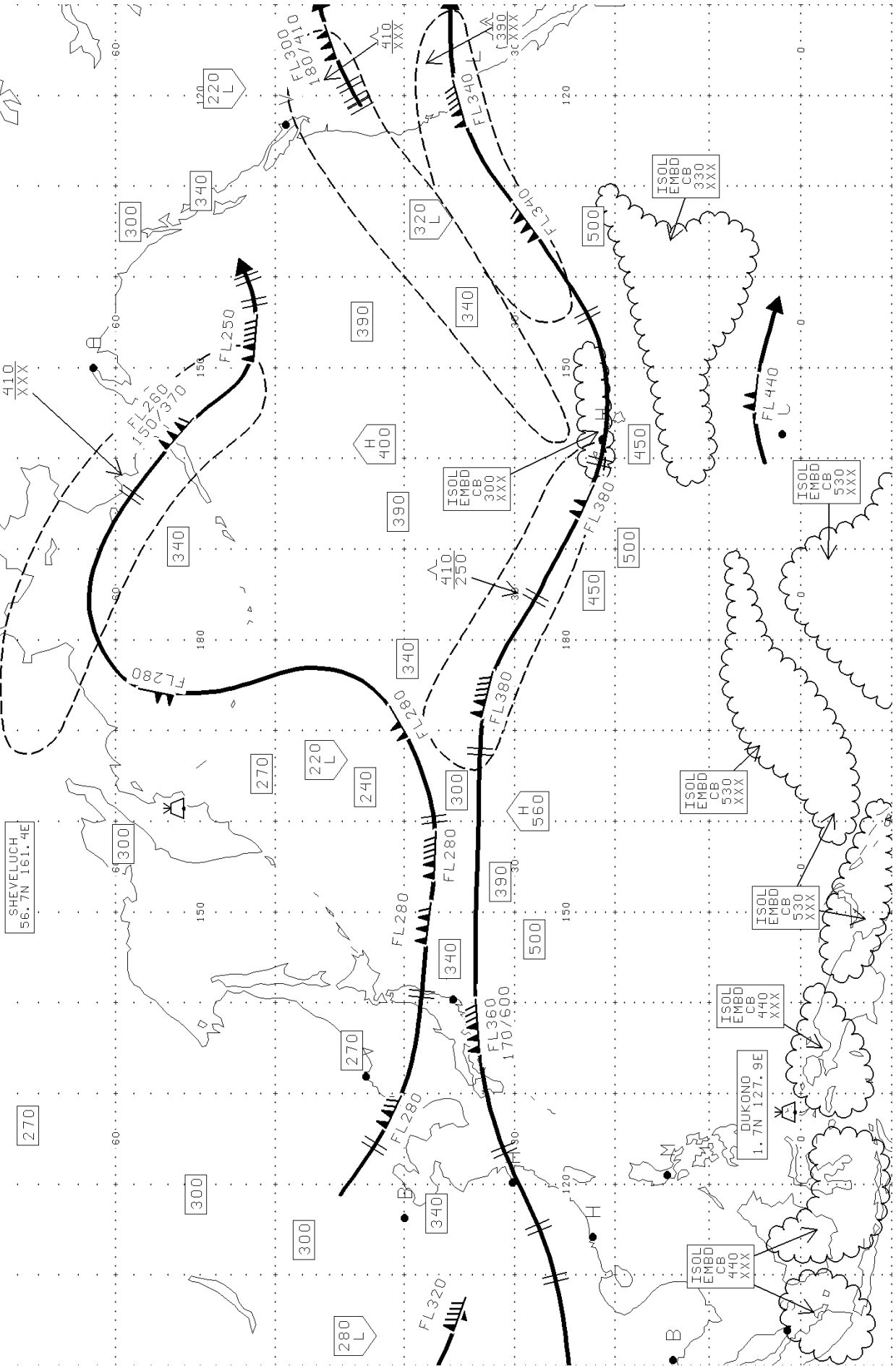
ISSUED BY WAFC WASHINGTON  
PROVIDED BY WAFC WASHINGTON  
FIXED TIME PROGNOSTIC CHART  
ICAO AREA A SIGWX  
FL 250-630  
VALID 18 UTC 13 FEB 2019  
CB IMPLIES TS, GR, MOD OR SEV TURB AND ICE  
UNITS USED: HEIGHTS IN FLIGHT LEVELS  
CHECK SIGMET, ADVISORIES FOR TC AND VA,  
ASHTAM AND NOTAM FOR VA





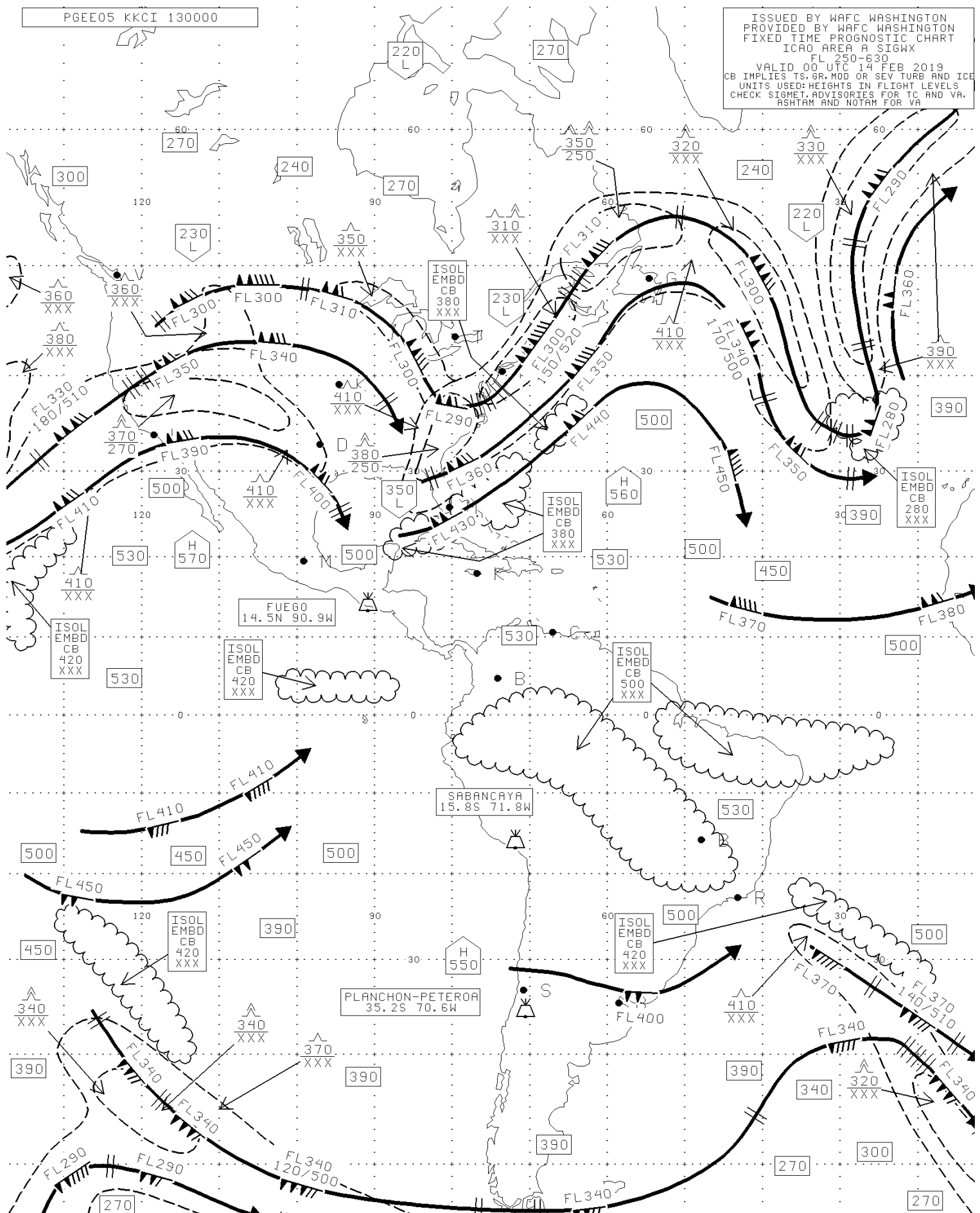
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PROVIDED BY WAFC WASHINGTON  
FIXED TIME PROGNOSTIC CHART  
ICAO AREA H SIGNX  
FL 250-630  
VALID 18 UTC 13 FEB 2019  
CB IMPLIES TS, GR, MOD OR SEV TURB AND ICE  
UNITS USED: HEIGHTS IN FLIGHT LEVELS  
CHECK SIGNIFICANT WEATHER FOR VA AND VR,  
ASHTAM AND NOTAM FOR VA

ISSUED BY WAFIC WASHINGTON  
 PROVIDED BY WAFIC WASHINGTON  
 FIXED TIME PROGNOSTIC CHART  
 ICAO AREA M SIGWX  
 VALID 18 UTC 13 FEB 2019  
 CB IMPLIES 6-GR. MO. OR SEV. URB. AND ICE  
 IMPLIES 6-GR. MO. OR SEV. URB. AND ICE  
 CHECK SIGNET RESPONSIBILITIES FOR TC AND VR,  
 RSHTAN AND NOTAM FOR VA



PGEE05 KKCI 130000

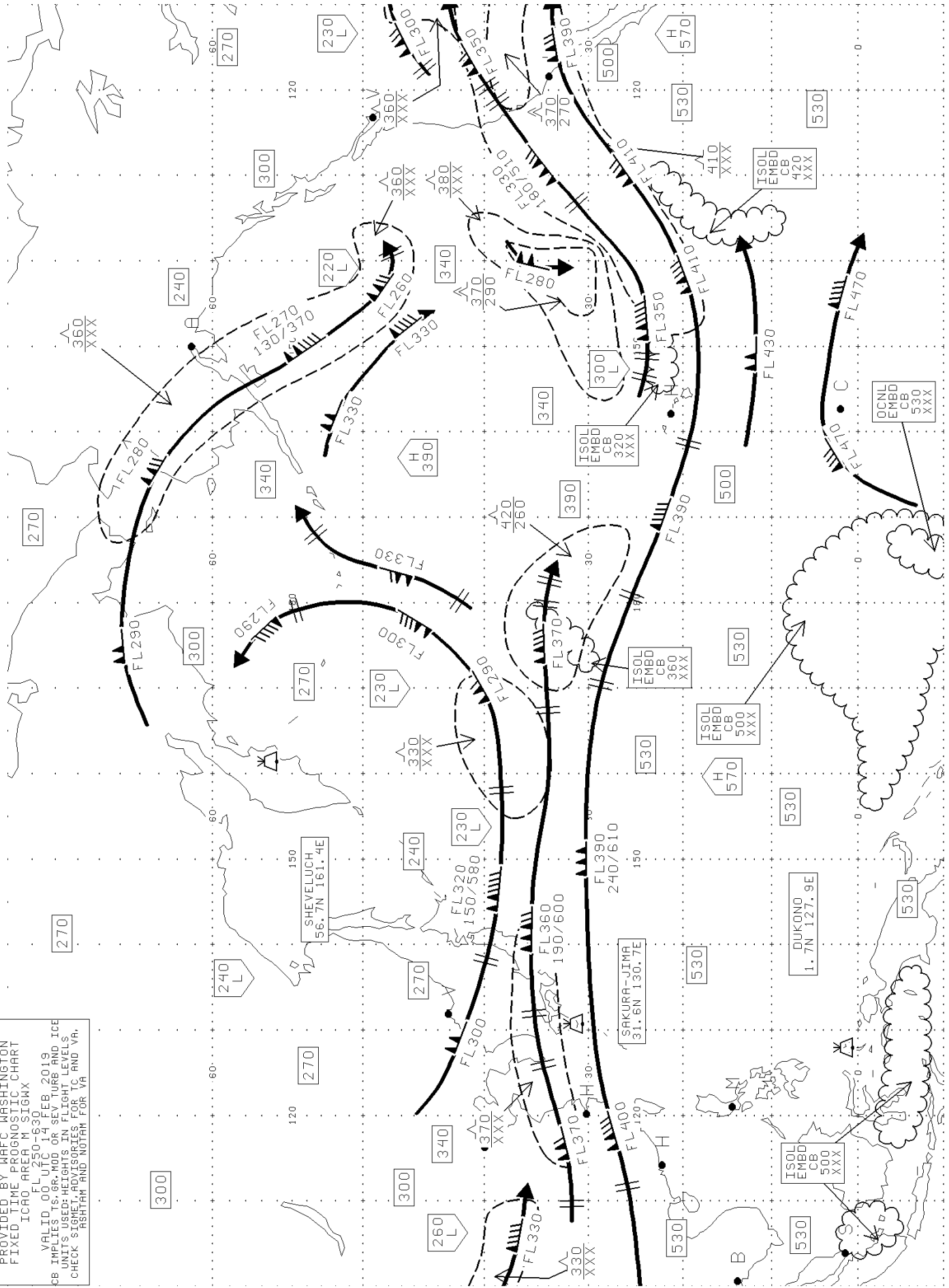
ISSUED BY WAFC WASHINGTON  
PROVIDED BY WAFC WASHINGTON  
FIXED TIME PROGNOSTIC CHART  
ICAO AREA A SIGWX  
FL 250-630  
VALID 00 UTC 14 FEB 2019  
CB IMPLIES TS, GR, MOD OR SEV TURB AND ICE  
UNITS USED: HEIGHTS IN FLIGHT LEVELS  
CHECK SIGMET ADVISORIES FOR TC AND VA,  
ASHTAM AND NOTAM FOR VA





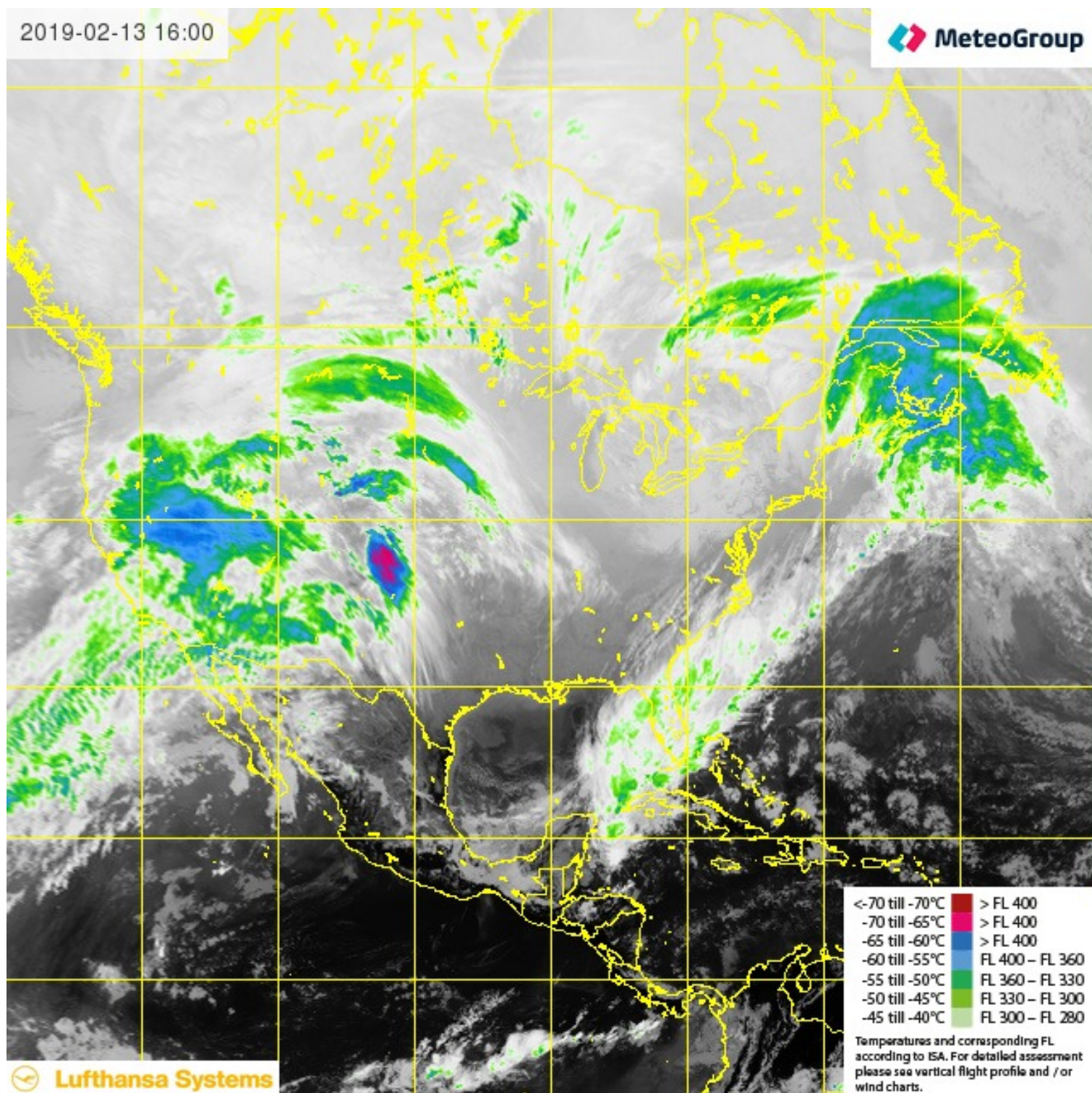
PGDE29 KKCI 130000

ISSUED BY WAFB WASHINGTON  
 PROVIDED BY WAFB WASHINGTON  
 FIXED TIME PROGNOSTIC CHART  
 ICAD AREA M SIGWX  
 FL 250-630  
 VALID 00 UTC 14 FEB 2019  
 CB IMPLIES SGR MOD OR SEV URB AND ICE  
 IMPLIES SGR MOD OR SEV URB AND ICE  
 CHECK SIGNER: HIGH SEAS FOR FLIC AND VFR  
 RSHTAM END NOTAM FOR VA



2019-02-13 16:00

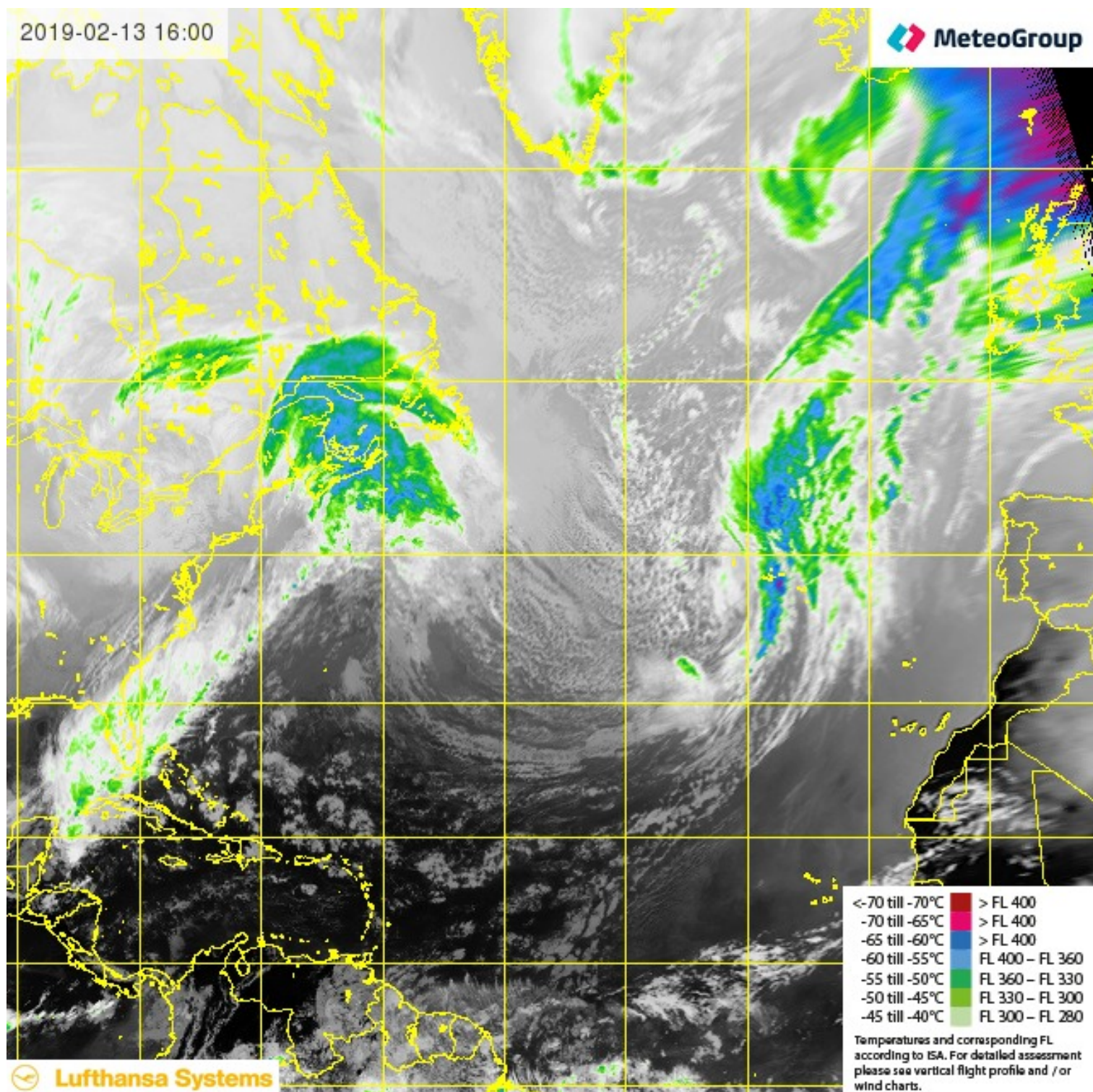
 **MeteoGroup**



**Lufthansa Systems**

2019-02-13 16:00

 **MeteoGroup**



**Lufthansa Systems**

[ SFC ]

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Information not available.

Airline:CP Flt-No.:5763 13Feb Dep:KSNA STD:131930 STA:132228 Dest:KSEA Reg:N613CZ OFP:1

[Flightlevel]

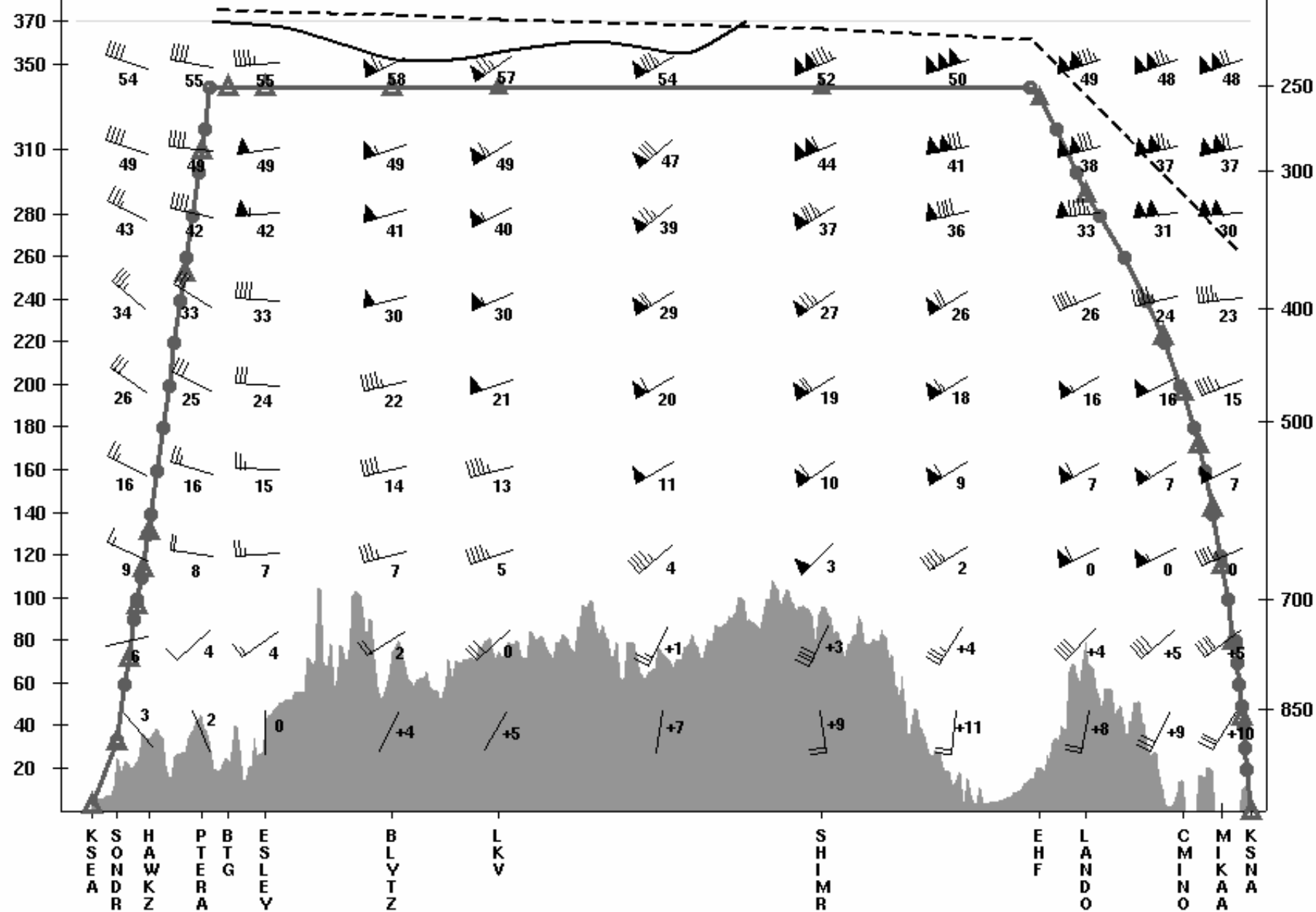
DEST  
KSEA

OFP:1

DEP  
KSNA

Vertical flight profile  
Maximum altitude  
Tropopause  
Prognosis 13/21.00

[hPa]



[ ABD File ]

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 TAKEOFF AND LANDING REPORT CPZ 5763 KSNA-KSEA 13FEB19  
 TLR-1 SEQ-120979587 13FEB19 1742Z  
 A/C N613CZ EMB-175 CF34-8E5

/// TAKEOFF DATA ///

|          |             |       |       |    |    |    |    |      |       |
|----------|-------------|-------|-------|----|----|----|----|------|-------|
| APT PRWY | POAT PWIND  | PQNH  | PMRTW | FL | V1 | VR | V2 | PTOW | MFPTW |
| KSNA20R  | 16.0 108M11 | 29.96 | 8572  | 4  | 22 | 27 | 31 | 7872 | 8393  |

RMKS NONE

-----  
 RWY OAT WIND QNH MRTW FLP V1 VR V2 PWR CNFG/COND

----- ACARS RUNWAYS -----  

|       |       |        |       |         |       |
|-------|-------|--------|-------|---------|-------|
| RWY   | ACARS | LENGTH | PMTOW | EFP     | NOTES |
| 02L   |       | 5701   | 8393  | SPECIAL |       |
| 02L/E |       | 4850   | 8016  | SPECIAL |       |
| 20R   |       | 5701   | 8393  | DT H196 |       |
| 20R/K |       | 5300   | 8310  | DT H196 |       |

----- SPECIAL ENG FAIL TAKEOFF PROCEDURES -----  

|     |         |          |    |         |      |      |
|-----|---------|----------|----|---------|------|------|
| RWY | CLB VIA | REACHING | OR | TURN    | FRA  | HOLD |
| 02L |         | 900      |    | LT H210 | 1056 |      |

----- DRY RWY - PTOW - A/I OFF -----  

|     |      |    |                   |    |     |     |     |     |
|-----|------|----|-------------------|----|-----|-----|-----|-----|
| RWY | MTOW | MT | CONFIG            | FL | V1  | VR  | V2  | VFS |
| 02L | 7872 | 32 | FLEX-T/0-2-ECS ON | 4  | 122 | 124 | 127 | 197 |
| 20R | 7872 | 35 | FLEX-T/0-1-ECS ON | 4  | 122 | 124 | 127 | 197 |

----- DRY RWY - PTOW PLUS 1000 - A/I OFF -----  

|     |      |    |                   |    |     |     |     |     |
|-----|------|----|-------------------|----|-----|-----|-----|-----|
| RWY | MTOW | MT | CONFIG            | FL | V1  | VR  | V2  | VFS |
| 02L | 7972 | 36 | FLEX-T/0-1-ECS ON | 4  | 122 | 124 | 128 | 199 |
| 20R | 7972 | 34 | FLEX-T/0-1-ECS ON | 4  | 123 | 124 | 128 | 199 |

/// LANDING DATA ///

|          |            |       |       |     |      |
|----------|------------|-------|-------|-----|------|
| APT PRWY | POAT PWIND | PQNH  | PMRLW | FLP | PLDW |
| KSEA 34R | 2.0 344M06 | 29.62 | 9038  | 6   | 6996 |

RMKS ENGINE AND WING ANTI-ICE ON  
 WET RUNWAY

-----  
 RWY OAT WIND QNH MRLW FLP VREF PWR CONFIG/CONDITION

----- ACARS RUNWAYS -----  

|     |       |        |               |
|-----|-------|--------|---------------|
| RWY | ACARS | LENGTH | NOTES         |
| 16C |       | 9426   |               |
| 16L |       | 11901  | NOTAMS 03/255 |
| 16R |       | 8500   |               |
| 34C |       | 9426   |               |
| 34L |       | 8500   |               |
| 34R |       | 11901  | NOTAMS 12/291 |

----- DRY RWY - A/I OFF - NO ICE ACCRETION -----  
 FLAP 5 / FLAP FULL  

|     |         |          |         |         |
|-----|---------|----------|---------|---------|
|     | 16C     | 16L      | 16R     | 34C     |
| OAT | 9426 FT | 11901 FT | 8500 FT | 9426 FT |

|    |             |             |             |             |
|----|-------------|-------------|-------------|-------------|
| 08 | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| 06 | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |

|         |             |             |             |             |
|---------|-------------|-------------|-------------|-------------|
| 04      | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| / 02    | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| 00      | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| -02     | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| -04     | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| HW/10KT | 0/ 0        | 0/ 0        | 0/ 0        | 0/ 0        |
| TW/10KT | 0/ 0        | 0/ 0        | 0/ 0        | 0/ 0        |
| EWAI    | 0/ 0        | 0/ 0        | 0/ 0        | 0/ 0        |
| STLPROT | 0/ 0        | 0/ 0        | 0/ 0        | 0/ 0        |
| ICING   | -498/ -905  | -498/ -905  | -498/ -905  | -498/ -905  |
| CAT II  | 0/-----     | 0/-----     | 0/-----     | 0/-----     |

|         |             |             |
|---------|-------------|-------------|
|         | 34L         | 34R         |
| OAT     | 8500 FT     | 11901 FT    |
| 08      | 9038F/9038F | 9038F/9038F |
| 06      | 9038F/9038F | 9038F/9038F |
| 04      | 9038F/9038F | 9038F/9038F |
| / 02    | 9038F/9038F | 9038F/9038F |
| 00      | 9038F/9038F | 9038F/9038F |
| -02     | 9038F/9038F | 9038F/9038F |
| -04     | 9038F/9038F | 9038F/9038F |
| HW/10KT | 0/ 0        | 0/ 0        |
| TW/10KT | 0/ 0        | 0/ 0        |
| EWAI    | 0/ 0        | 0/ 0        |
| STLPROT | 0/ 0        | 0/ 0        |
| ICING   | -498/ -905  | -498/ -905  |
| CAT II  | 0/-----     | 0/-----     |

----- WET RWY - A/I OFF - NO ICE ACCRETION -----  
 FLAP 5 / FLAP FULL

|         |             |             |             |             |
|---------|-------------|-------------|-------------|-------------|
| OAT     | 16C         | 16L         | 16R         | 34C         |
| 08      | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| 06      | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| 04      | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| / 02    | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| 00      | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| -02     | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| -04     | 9038F/9038F | 9038F/9038F | 9038F/9038F | 9038F/9038F |
| HW/10KT | 0/ 0        | 0/ 0        | 0/ 0        | 0/ 0        |
| TW/10KT | 0/ 0        | 0/ 0        | 0/ 0        | 0/ 0        |
| EWAI    | 0/ 0        | 0/ 0        | 0/ 0        | 0/ 0        |
| STLPROT | 0/ 0        | 0/ 0        | 0/ 0        | 0/ 0        |
| ICING   | -498/ -905  | -498/ -905  | -498/ -905  | -498/ -905  |
| CAT II  | 0/-----     | 0/-----     | 0/-----     | 0/-----     |

|         |             |             |
|---------|-------------|-------------|
| OAT     | 34L         | 34R         |
| 08      | 9038F/9038F | 9038F/9038F |
| 06      | 9038F/9038F | 9038F/9038F |
| 04      | 9038F/9038F | 9038F/9038F |
| / 02    | 9038F/9038F | 9038F/9038F |
| 00      | 9038F/9038F | 9038F/9038F |
| -02     | 9038F/9038F | 9038F/9038F |
| -04     | 9038F/9038F | 9038F/9038F |
| HW/10KT | 0/ 0        | 0/ 0        |
| TW/10KT | 0/ 0        | 0/ 0        |
| EWAI    | 0/ 0        | 0/ 0        |
| STLPROT | 0/ 0        | 0/ 0        |
| ICING   | -498/ -905  | -498/ -905  |
| CAT II  | 0/-----     | 0/-----     |

----- FACTORED LANDING DISTANCE -----

|         | FLAP 5 |      | FLAP FULL |       |
|---------|--------|------|-----------|-------|
| LDW     | DRY    | WET  | DRY       | WET   |
| 7200    | 4427   | 5092 | 4073      | 4684  |
| 7100    | 4379   | 5035 | 4034      | 4640  |
| 7000    | 4331   | 4981 | 3994      | 4593  |
| / 6996  | 4329   | 4979 | 3993      | 4591  |
| 6900    | 4286   | 4929 | 3954      | 4548  |
| 6800    | 4240   | 4876 | 3916      | 4503  |
| 6700    | 4192   | 4821 | 3876      | 4457  |
| HW/KT   | -24    | -27  | -23       | -26   |
| TW/KT   | 79     | 91   | 74        | 85    |
| STLPROT | 639    | 735  | 304       | 349   |
| ICING   | 570    | 656  | 287       | 330   |
| CAT II  | 1320   | 656  | -----     | ----- |

----- DEMONSTRATED LANDING DISTANCE -----

|         | FLAP 5 |      | FLAP FULL |       |
|---------|--------|------|-----------|-------|
| LDW     | DRY    | WET  | DRY       | WET   |
| 7200    | 2656   | 3055 | 2444      | 2810  |
| 7100    | 2627   | 3021 | 2421      | 2784  |
| 7000    | 2599   | 2988 | 2397      | 2756  |
| / 6996  | 2598   | 2987 | 2396      | 2755  |
| 6900    | 2571   | 2957 | 2373      | 2729  |
| 6800    | 2544   | 2925 | 2349      | 2702  |
| 6700    | 2515   | 2893 | 2325      | 2674  |
| HW/KT   | -14    | -16  | -14       | -16   |
| TW/KT   | 47     | 54   | 45        | 51    |
| STLPROT | 384    | 441  | 182       | 209   |
| ICING   | 342    | 394  | 172       | 198   |
| CAT II  | 342    | 394  | -----     | ----- |

----- MIN RQRD DIST - FLAPS 5 - NO THR REV CREDIT -----

| LDW     | 6-DRY | 5-GOOD | 4-GD/MED | 3-MEDIUM | 2-MED/PR | 1-POOR |
|---------|-------|--------|----------|----------|----------|--------|
| 7200    | 3877  | 4908   | 5712     | 6431     | 7752     | 9711   |
| 7100    | 3834  | 4842   | 5650     | 6362     | 7638     | 9618   |
| 7000    | 3792  | 4778   | 5589     | 6293     | 7526     | 9527   |
| / 6996  | 3790  | 4775   | 5587     | 6291     | 7521     | 9523   |
| 6900    | 3752  | 4717   | 5531     | 6228     | 7418     | 9440   |
| 6800    | 3711  | 4654   | 5471     | 6161     | 7308     | 9351   |
| 6700    | 3669  | 4590   | 5409     | 6092     | 7196     | 9261   |
| HW/KT   | -20   | -31    | -33      | -38      | -59      | -63    |
| TW/KT   | 65    | 108    | 107      | 126      | 212      | 218    |
| STLPROT | 505   | 745    | 686      | 750      | 1075     | 952    |
| ICING   | 454   | 671    | 619      | 677      | 973      | 861    |

----- MIN RQRD DIST - FLAPS FULL - NO THR REV CREDIT -----

| LDW     | 6-DRY | 5-GOOD | 4-GD/MED | 3-MEDIUM | 2-MED/PR | 1-POOR |
|---------|-------|--------|----------|----------|----------|--------|
| 7200    | 3533  | 4341   | 5143     | 5761     | 6604     | 8541   |
| 7100    | 3498  | 4290   | 5092     | 5705     | 6516     | 8466   |
| 7000    | 3461  | 4236   | 5039     | 5645     | 6424     | 8387   |
| / 6996  | 3460  | 4234   | 5037     | 5643     | 6420     | 8384   |
| 6900    | 3425  | 4183   | 4986     | 5586     | 6333     | 8309   |
| 6800    | 3390  | 4131   | 4934     | 5529     | 6244     | 8234   |
| 6700    | 3353  | 4078   | 4881     | 5469     | 6153     | 8156   |
| HW/KT   | -19   | -29    | -31      | -36      | -52      | -60    |
| TW/KT   | 62    | 99     | 102      | 120      | 188      | 208    |
| STLPROT | 279   | 399    | 383      | 417      | 582      | 521    |
| ICING   | 264   | 377    | 363      | 395      | 552      | 494    |

--- MIN RQRD DIST - FLAPS 5 - NO THR REV CREDIT - CAT II ----

LDW 6-DRY 5-GOOD 4-GD/MED 3-MEDIUM 2-MED/PR 1-POOR

|        |      |      |      |      |      |       |
|--------|------|------|------|------|------|-------|
| 7200   | 5748 | 5748 | 6331 | 7108 | 8724 | 10572 |
| 7100   | 5669 | 5669 | 6264 | 7034 | 8603 | 10472 |
| 7000   | 5592 | 5592 | 6198 | 6959 | 8482 | 10373 |
| / 6996 | 5589 | 5589 | 6195 | 6956 | 8477 | 10369 |
| 6900   | 5515 | 5515 | 6132 | 6885 | 8362 | 10275 |
| 6800   | 5440 | 5440 | 6066 | 6811 | 8243 | 10178 |
| 6700   | 5365 | 5365 | 5999 | 6736 | 8122 | 10080 |
| HW/KT  | -30  | -30  | -34  | -39  | -62  | -65   |
| TW/KT  | 99   | 100  | 111  | 131  | 220  | 225   |

| ----- MIN RQRD DIST - FLAPS 5 - THR REV CREDIT ----- |       |        |          |          |          |        |
|------------------------------------------------------|-------|--------|----------|----------|----------|--------|
| LDW                                                  | 6-DRY | 5-GOOD | 4-GD/MED | 3-MEDIUM | 2-MED/PR | 1-POOR |
| 7200                                                 | 3811  | 4679   | 5401     | 5986     | 6811     | 8577   |
| 7100                                                 | 3769  | 4618   | 5343     | 5922     | 6720     | 8499   |
| 7000                                                 | 3728  | 4559   | 5287     | 5860     | 6631     | 8423   |
| / 6996                                               | 3726  | 4559   | 5284     | 5858     | 6627     | 8421   |
| 6900                                                 | 3689  | 4503   | 5232     | 5800     | 6544     | 8351   |
| 6800                                                 | 3649  | 4445   | 5177     | 5739     | 6456     | 8278   |
| 6700                                                 | 3608  | 4386   | 5120     | 5676     | 6366     | 8204   |
| HW/KT                                                | -20   | -29    | -31      | -36      | -48      | -57    |
| TW/KT                                                | 64    | 99     | 103      | 120      | 165      | 204    |
| STLPROT                                              | 485   | 665    | 615      | 657      | 838      | 775    |
| ICING                                                | 436   | 599    | 555      | 593      | 757      | 700    |

| ----- MIN RQRD DIST - FLAPS FULL - THR REV CREDIT ----- |       |        |          |          |          |        |
|---------------------------------------------------------|-------|--------|----------|----------|----------|--------|
| LDW                                                     | 6-DRY | 5-GOOD | 4-GD/MED | 3-MEDIUM | 2-MED/PR | 1-POOR |
| 7200                                                    | 3480  | 4176   | 4901     | 5418     | 5977     | 7701   |
| 7100                                                    | 3446  | 4128   | 4854     | 5366     | 5904     | 7631   |
| 7000                                                    | 3410  | 4078   | 4805     | 5312     | 5828     | 7566   |
| / 6996                                                  | 3408  | 4076   | 4803     | 5310     | 5825     | 7563   |
| 6900                                                    | 3374  | 4028   | 4758     | 5258     | 5753     | 7501   |
| 6800                                                    | 3340  | 3979   | 4708     | 5206     | 5680     | 7438   |
| 6700                                                    | 3304  | 3929   | 4658     | 5152     | 5605     | 7373   |
| HW/KT                                                   | -19   | -27    | -30      | -34      | -44      | -55    |
| TW/KT                                                   | 61    | 92     | 99       | 115      | 155      | 197    |
| STLPROT                                                 | 269   | 361    | 345      | 367      | 469      | 426    |
| ICING                                                   | 255   | 342    | 329      | 348      | 444      | 402    |

| ----- MIN RQRD DIST - FLAPS 5 - THR REV CREDIT - CAT II ----- |       |        |          |          |          |        |
|---------------------------------------------------------------|-------|--------|----------|----------|----------|--------|
| LDW                                                           | 6-DRY | 5-GOOD | 4-GD/MED | 3-MEDIUM | 2-MED/PR | 1-POOR |
| 7200                                                          | 5748  | 5748   | 5956     | 6579     | 7568     | 9278   |
| 7100                                                          | 5669  | 5669   | 5894     | 6510     | 7471     | 9193   |
| 7000                                                          | 5592  | 5592   | 5831     | 6442     | 7373     | 9110   |
| / 6996                                                        | 5589  | 5589   | 5829     | 6439     | 7369     | 9107   |
| 6900                                                          | 5515  | 5515   | 5770     | 6374     | 7276     | 9028   |
| 6800                                                          | 5440  | 5440   | 5708     | 6306     | 7181     | 8946   |
| 6700                                                          | 5365  | 5365   | 5646     | 6238     | 7084     | 8865   |
| HW/KT                                                         | -30   | -30    | -32      | -37      | -49      | -58    |
| TW/KT                                                         | 99    | 99     | 107      | 124      | 170      | 209    |

END TAKEOFF AND LANDING REPORT CPZ 5763 KSNA-KSEA 13FEB19