ZOA CWSU OPERATIONS...

- LARGEST AIRSPACE IN THE WORLD - ZAK OCEANIC / ZOA DOMESTIC
  - Volcanic Eruptions, Tropical Cyclones/Hurricanes, SEV Turb, SFO

- TURB/LLWS Case Study Offshore Flow with relatively benign surface conditions
  - RAWS, METARs and setup AFD (Aviation Forecast Discussions)

- PIREPs / Jet Stream SEV Turb Wind wind event

- CWSU Twitter feeds / MIS (Mission Impact Statements)

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KZAK - Oakland Oceanic Airspace...largest in world
Note: The cone's boundaries are the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.
NEW SFO - current cams

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Urgent PIREP FDX
Obs Time: 2019-11-13T00:20:00Z
Weather: VA
Flight level: 330
Temperature: 63
Dewpoint: 52
Rel Humidity: 68%
Temperature: 75
Dewpoint: 34
Rel Humidity: 22%
PREV DISCUSSION...AS OF 03:45 AM PST TUESDAY...THE WELL ADVERTISED OFFSHORE FLOW IS KICKING IN PRETTY SOLID OVERNIGHT. CURRENT PRESSURE GRADIENT FROM SFO-WMC IS OVER 7 MB AND IS PROJECTED TO MAX NEAR 10 MB. THE OFFSHORE FLOW GRADIENT IS RESULTING IN GUSTY WINDS OVER THE HIGHER PEAKS OF THE BAY AREA. AS OF 1 AM WINDS ACROSS THE NORTH BAY MTS AND EAST BAY HILLS ARE RANGING FROM 20-40 MPH WITH A FEW GUSTS UP TO 55 MPH FOR MT ST HELENA. ADDITIONALLY, THE OFFSHORE FLOW USHERED IN MUCH DRIER AIR AND MILDERS TEMPERATURES. THANKFULLY IT'S NOT FIRE SEASON BECAUSE RH VALUES ARE IN THE 20-30% RANGE WITH TEMPS IN THE 50S TO LOWER 60S. SATELLITE FOG PRODUCT ALSO SHOWS THE DRY AIRMASS IN PLACE WITH LITTLE IN THE WAY OF CLOUDS OR FOG. ONLY REAL DISCERNIBLE PATCH ALONG THE MONTEREY BAY COAST.
AVIATION...AS OF 3:53 AM PST TUESDAY...FOR 12Z TAFS. CLEAR SKIES AND LIGHT OFFSHORE WINDS PREVAIL ACROSS THE REGION THIS MORNING. STRONGER NORTH TO NORTHEASTERLY WINDS ARE FORECAST ALOFT WHICH MAY RESULT IN LLWS ACROSS AREA TERMINALS THIS MORNING.

VICINITY OF KSFO...VFR CONDITIONS WILL PREVAIL UNDER CLEAR SKIES AND LIGHT OFFSHORE.

SFO BRIDGE APPROACH...VFR CONDITIONS WILL PREVAIL UNDER CLEAR SKIES AND LIGHT OFFSHORE FLOW. SOME LLWS POSSIBLE ON FINAL APPROACH OVERNIGHT INTO EARLY TUESDAY.

urgent pilot report at 17:00Z: RHV UUA /OV SJC010005/TM 1700/FL026/TP P28A/TB SEVERE
urgent pilot report at 17:30Z: RHV UUA /OV RHV310007/TM 1730/FL035/TP C172/TB MOD-SEV 015-035/RM REPORTED BY MULT ACFT
FAUS21 KZOA 251749

ZOA1 CWA 251749

ZOA CWA 101 VALID UNTIL 251945

FROM 15E OAK-35SW MOD-25NW SNS-15SSW OAK-15E OAK

AREA OCNL MOD ISOL SEV TURB. 010-040. LLWS POSS. RPRTD BY MULT ACFT.

ZOA CWSU 251749Z

urgent pilot report at 18:49Z: RHV UUA /OV SJC010005/TM 1849/FL020/TP C172/TB MOD-SEV/RM DURD

urgent pilot report at 18:11Z: RHV UUA /OV SJC040007/TM 1811/FL028/TP BE35/TB MOD028
Jet Stream Forecast: valid 06Z01DEC2019 (Sun)
**AI REP UAL493**

**Obs Time:** 2019-11-30T22:37:00Z  
**Wind:** 230 at 180kt  
**Temperature:** -40°C  
**Flight level:** 300

**AI REP:** ARP UAL493 3536N 12556W 2237 F300 M40 230/180
Lenticular clouds formed this afternoon as winds increased, with roll clouds and shallow cumulus clouds observed downwind of the Carson Range as well. Winds will remain strong and gusty tonight into Saturday as our winter storm moves in.
Heads Up, Bay Area! Although the #KincadeFire isn't causing smoke issues over the Bay Area today, shifting winds tomorrow will likely cause the smoke to be directly over much of the region. Impacts to SFO may begin as early as 11am Friday.
Urgent PIREP: PANC UUA /OV 4100N 15700W /TM 1842 /FL380 /TP B772 /TB MOD-SEV 380 /RM ZOA CWSU

Urgent PIREP: PANC UUA /OV 4100N 15300W /TM 1905 /FL390 /TP B772 /TB MOD-SEV 390-360 /RM ZOA CWSU

Urgent PIREP: PANC UUA /OV 4145N 15808W /TM 2030 /FL360 /TP B77W /TB MOD-SEV /RM ZOA CWSU
RAVEN: Add 2-hours to your forecast!

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