Summary of Key Briefing Points

1030-1130am MST Tuesday February 2, 2016

Current Conditions as of Tuesday 12Z-15Z February 2

Tropics and Mid-latitudes

Over the Tropical Pacific:

- Convection: An area of active Convection in region 165W-157W, 1-4°N this morning.
- Convection developed on SW corner of flight domain overnight, intensifying
- Isolated Convection is also appearing this morning 155W, 5N.
- Cloud track upper level winds indicate strong poleward 170W-160W, 4-7°N.
- Light (~10 kt)upper level easterlies south of 8N
- Upper level northwesterly 10-20kt in NE corner of domain to 7N, 155-150W suppressing convection there
- Water vapor image at 14Z Tues shows dry intrusion to 6N in 160W-150W band.

Tropical Outlook

- Convection for Tuesday aftn HNLT to be active mainly west of 155W, and south of 5N.
 - ---- Confidence is high based on EC/GFS model agreement
 - ---- Confidence is high based on consistency of forecasts among successive Initializations
 - ----- Convection to be more active in a zonal band between 3N-5N, 165W to 155W Tues aftn HNLT
- By 00Z Thu 4 FEB (Wednesday aftn HNLT), convection to remain active 167W-157W, mostly north of EQ.
 - ---- New EC fcst continues to indicate convection in SW quadrant of mission region Wed aftn HNL time.
 - ----- Convection may extend to 5S near 160W

- Convection to diminish and be weak by 00Z Fri (2PM Thu HNLT).
 - --- in summary, the indication from Tues forecasts is for active convection Tues aftn in SW quadrant of FD
 - --- Convection to reduce considerably by Thursday, and perhaps stay inactive Fri/Sat per EC guidance.

Midlatitude Conditions/Outlook

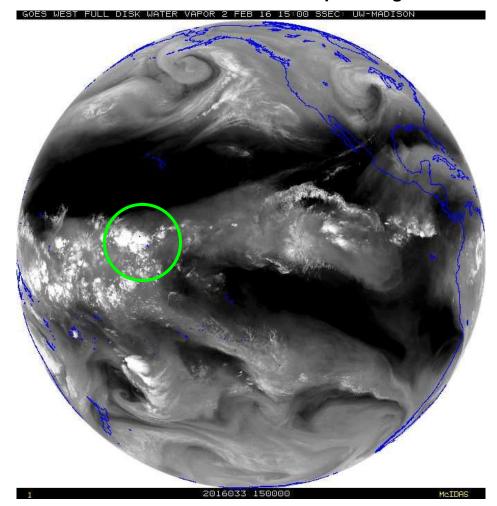
Short Term:

- CA mostly quiet
- Weak frontal rains in north mid-week, otherwise dry
- 8-station NSierra index on 1 Feb is 121%, 5-station CSierra index is 124%, Tulare Basin Index: 128%

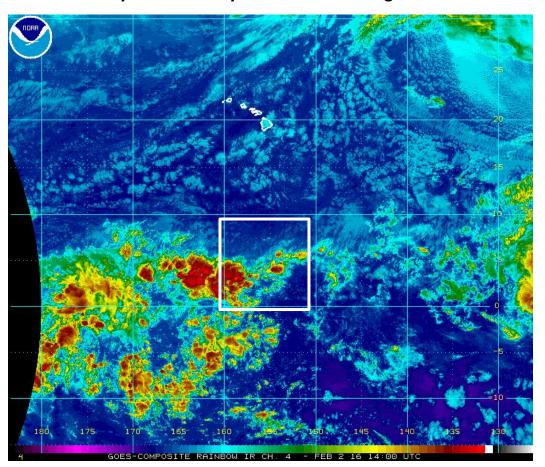
Medium - Long Term:

- Day 0-7 accumulated pcpn for CA shows little pcpn
- CPC 6-10 day (Feb 7-11) pcpn probabilities have high probabilities of below normal statewide
- Days 7 -10 fcsts from 00 TUE 2 Feb runs indicate sharp WCOASt Ridge
 ----confidence high (strong model agreement) that Tue 9 Feb thru Fri 12 Feb to be quiet in CA and NE Pacific
- Day 8-15 Calibrated Pcpn for CA (00Z Mon fcst) indicates a change, with above normal risks for >2" rainfall in region from SFO to SAN.
 - --- confidence low given poor model performance in prior long lead predictions.

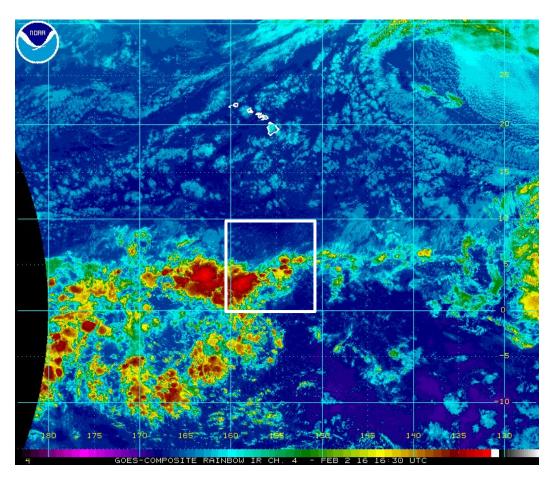
15Z Tue 2 Feb Water Vapor Image

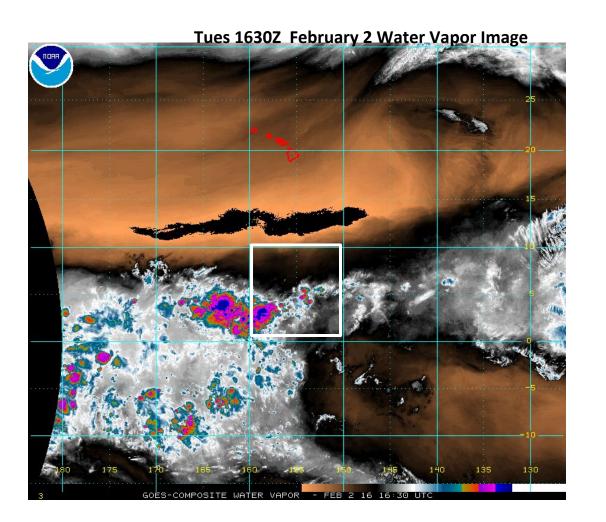


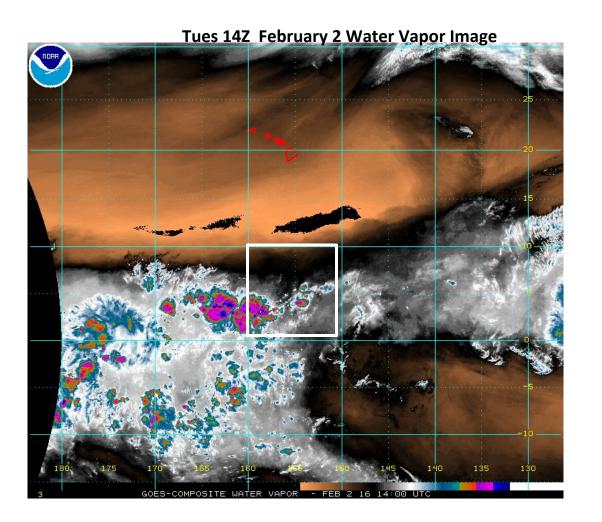
Tuesday 14Z February 2 Enhanced IR Image

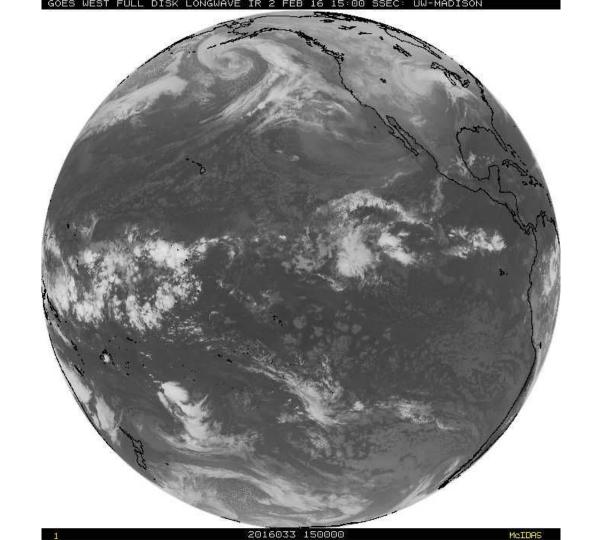


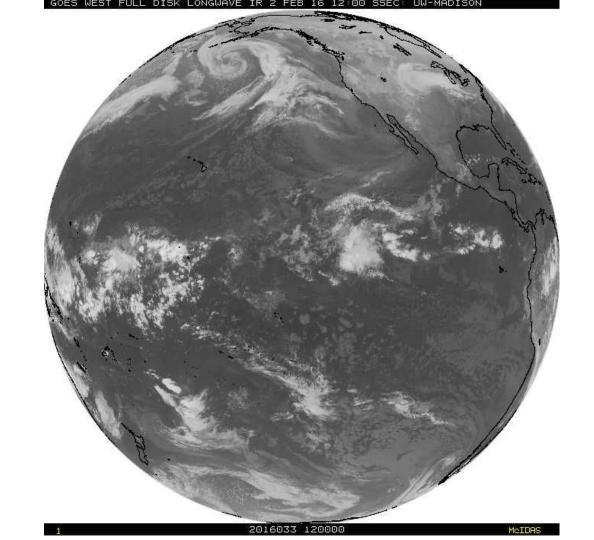
Tues 1630Z February 2 Enhanced IR Image

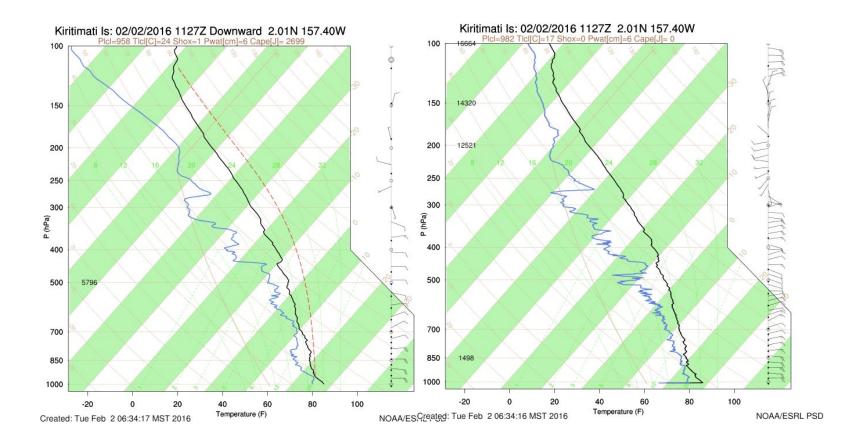


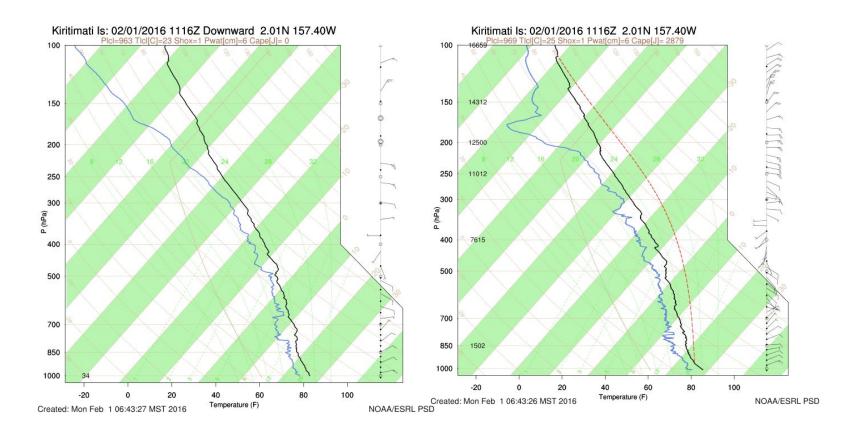




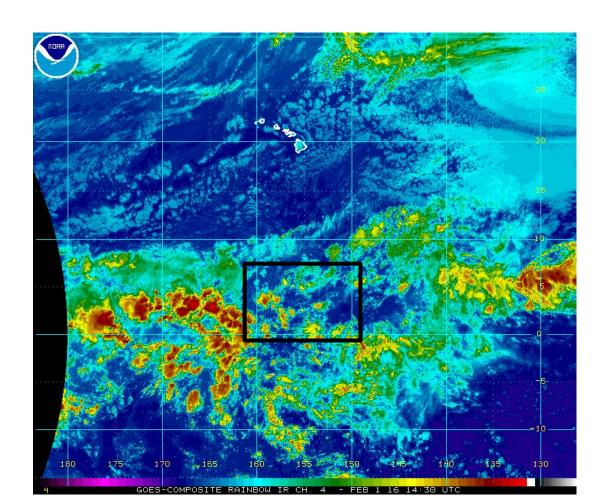




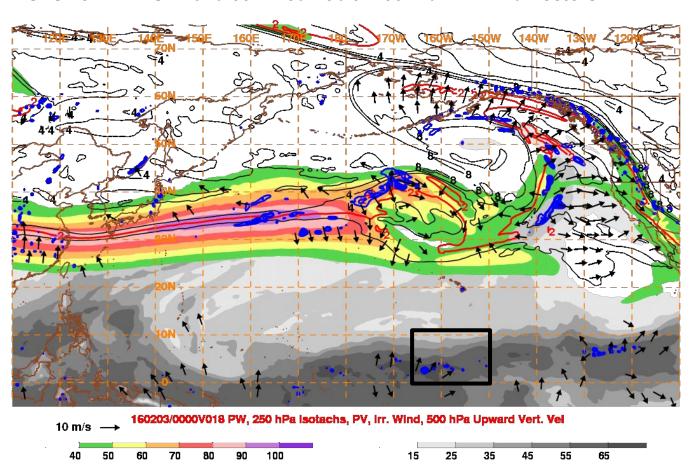




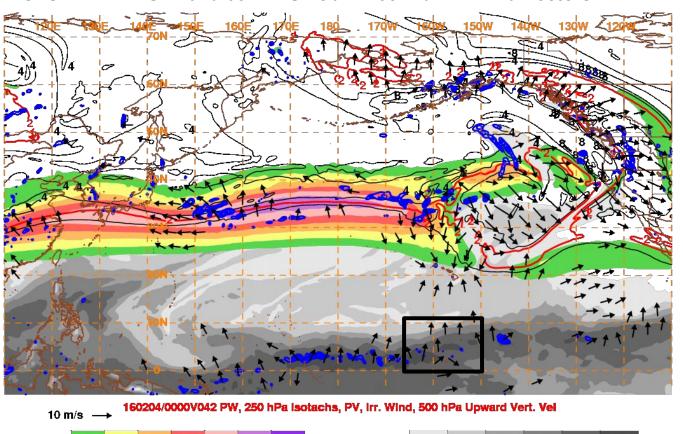
Mon 1430Z February 1 Enhanced IR Image



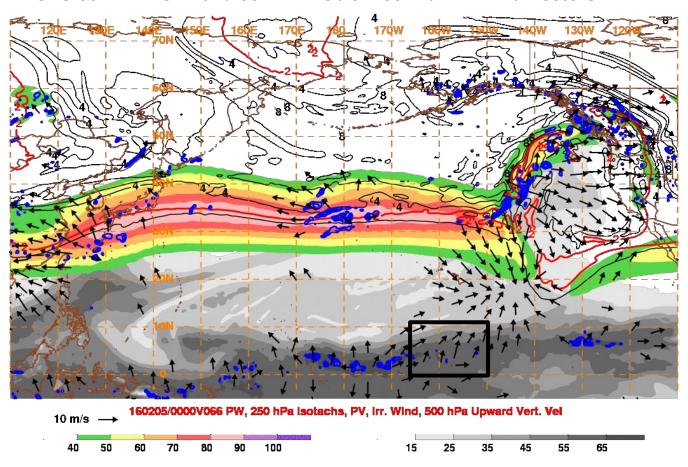
GFS 18 HR FCST Valid 00Z Wed Feb 3: 200 mb DIV Wind Vectors



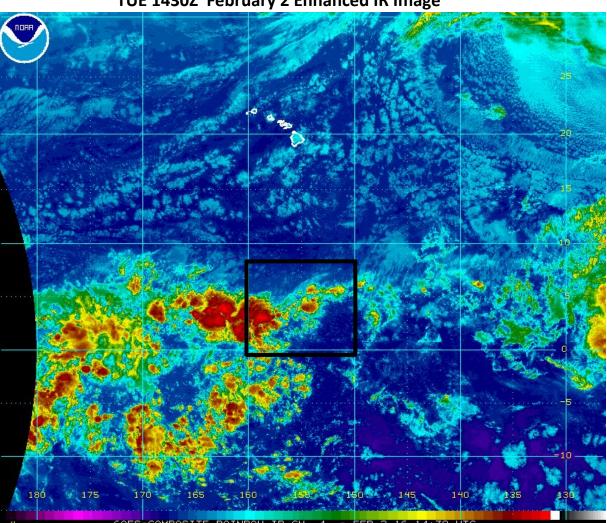
GFS 42 HR FCST Valid 00Z THU Feb 4: 200 mb DIV Wind Vectors

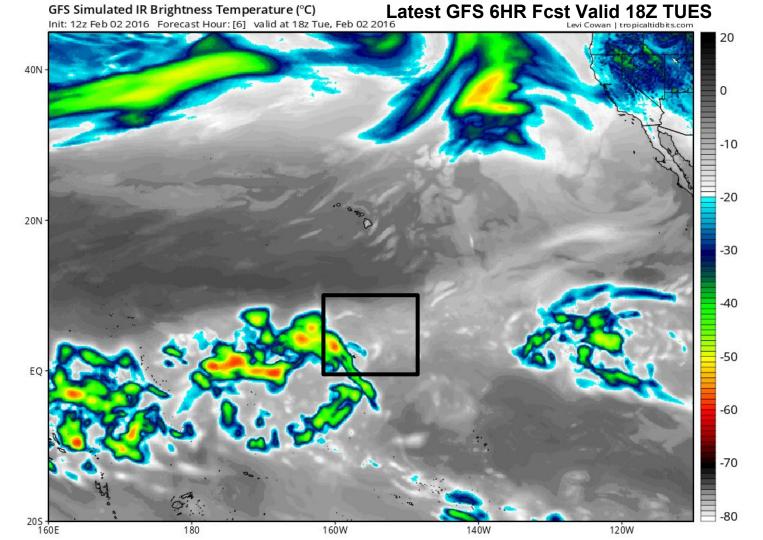


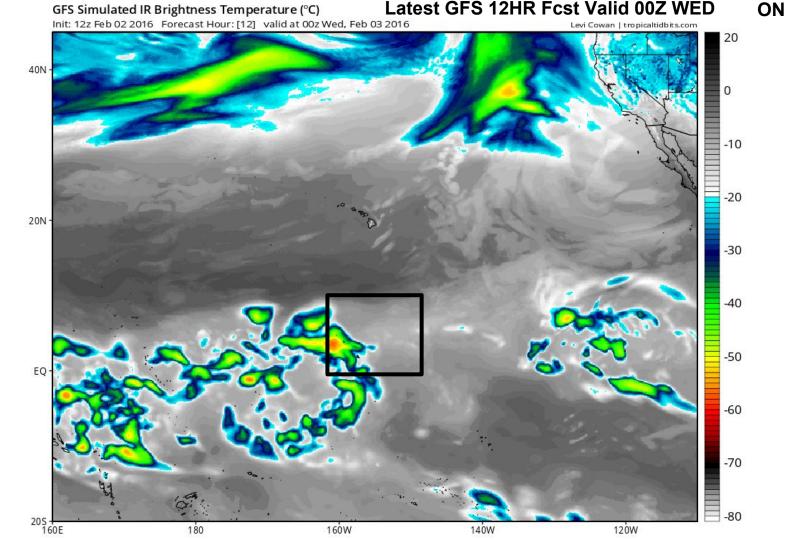
GFS 66 HR FCST Valid 00Z FRI Feb 5: 200 mb DIV Wind Vectors

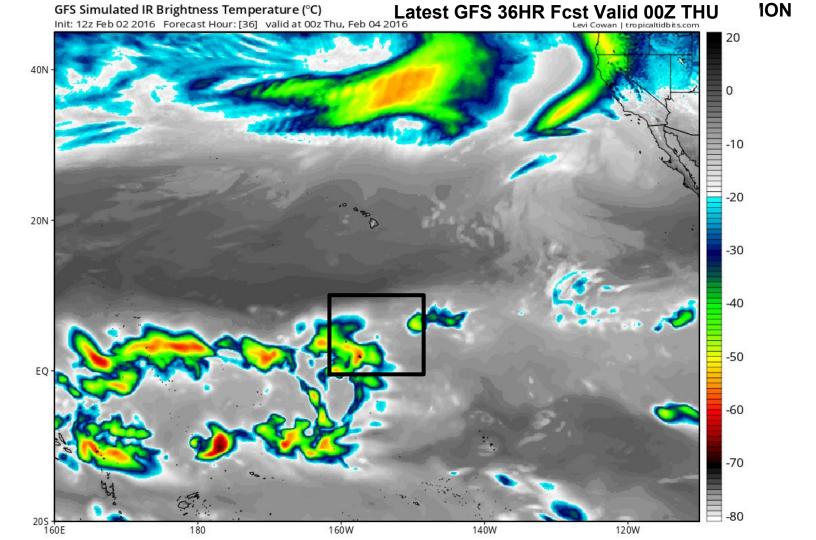


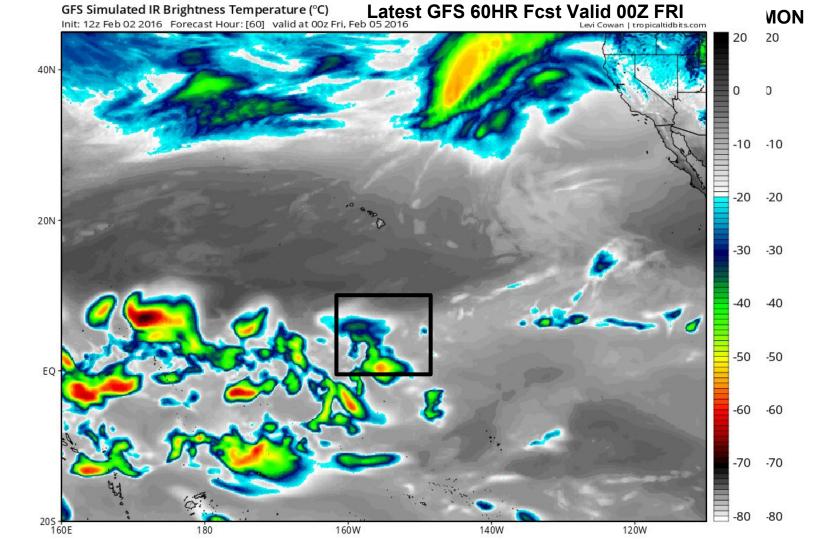
TUE 1430Z February 2 Enhanced IR Image

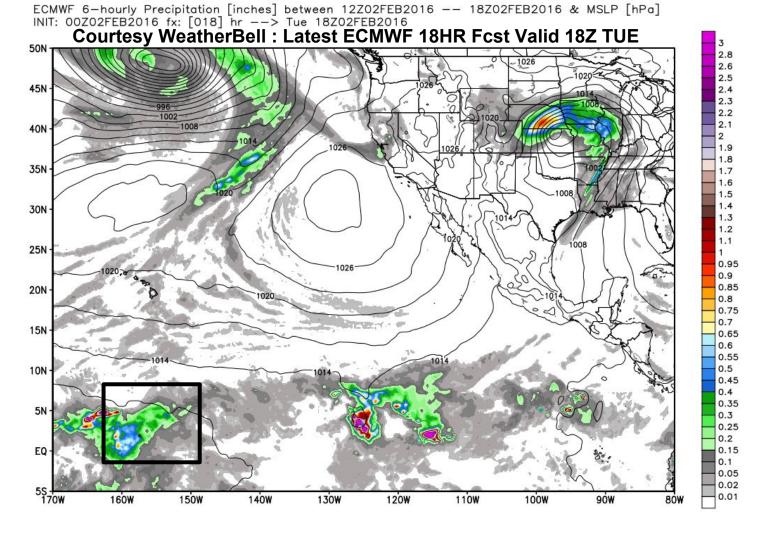


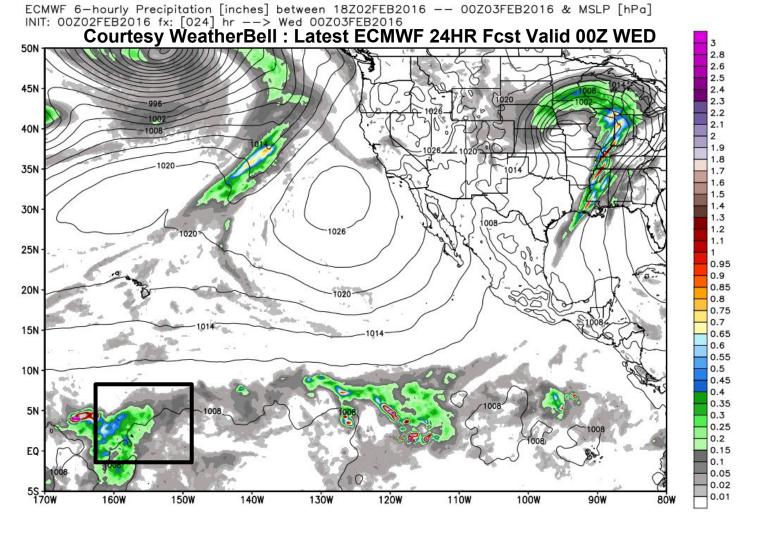




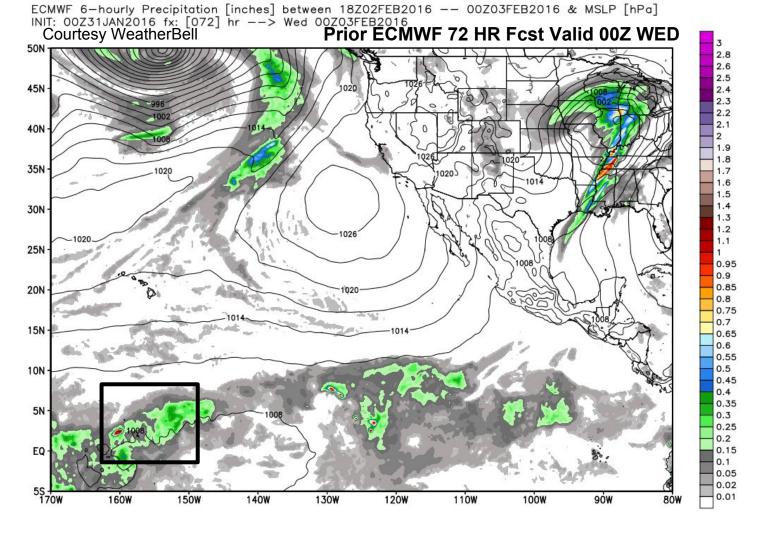








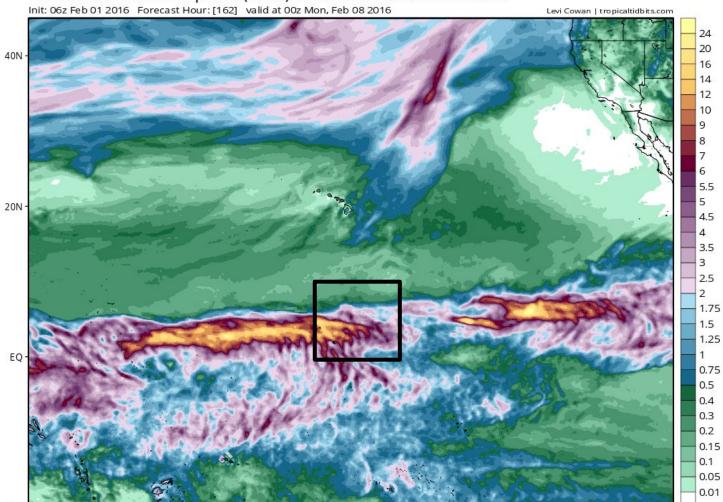
ECMWF 6-hourly Precipitation [inches] between 18Z02FEB2016 - 00Z03FEB2016 & MSLP [hPa] INIT: 00Z01FEB2016 fx: [048] hr - Wed 00Z03FEB2016 Courtesy of WeatherBell PRIOR ECMWF 48HR Fcst Valid 00Z WED 3 2.8 2.6 2.5 45N -2.4 2.3 2.2 2.1 40N 2 1.9 1026 1.8 35N 1.7 1.6 1.5 1.4 30N 1.3 1.2 1.1 25N 0.95 0.9 0.85 20N 0.8 0.75 0.7 15N 0.65 0.6 0.55 10N 0.5 0.45 0.4 0.35 5N 0.3 0.25 0.2 EQ 0.15 0.1 0.05 0.02 55 -0.01 140W 120W 160W 150W 130W 110W 100W 9ÓW 80W



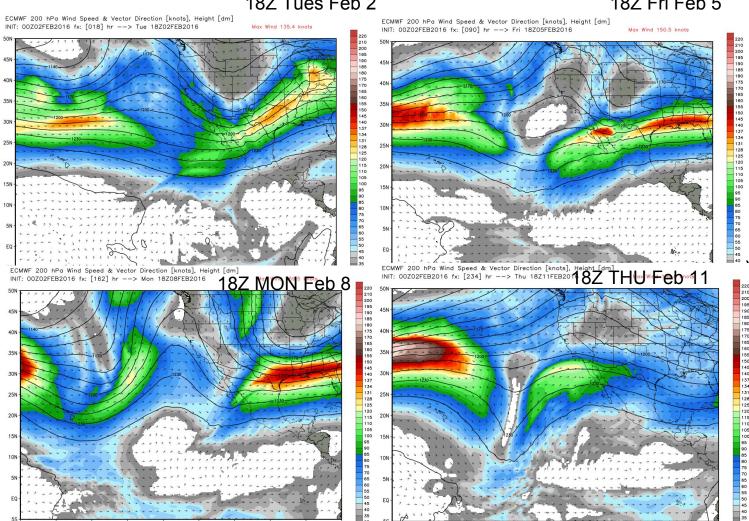
ECMWF 6-hourly Precipitation [inches] between 18Z03FEB2016 - 00Z04FEB2016 & MSLP [hPa] INIT: 00Z02FEB2016 fx: [048] hr - Thu 00Z04FEB2016 Courtesy WeatherBell: Latest ECMWF 48 HR Fcst Valid 00Z THU 50N 7 2.8 2.6 2984-2.5 45N -2.4 2.3 2.2 2.1 40N 2 1.9 1.8 35N 1.7 1.6 1.5 1.4 30N -1.3 1.2 1.1 25N 0.95 0.9 0.85 20N 0.8 0.75 0.7 15N 0.65 0.6 0.55 10N 0.5 0.45 0.4 0.35 5N -0.3 0.25 0.2 EQ 0.15 0.1 0.05 0.02 55 -170W 0.01 160W 150W 140W 130W 120W 110W 100W 9ÓW

ECMWF 6-hourly Precipitation [inches] between 18Z04FEB2016 -- 00Z05FEB2016 & MSLP [hPa] INIT: 00Z02FEB2016 fx: [072] hr --> Fri 00Z05FEB2016 Courtesy WeatherBell: Latest ECMWF 72 HR Fcst Valid 00Z FRI 50N T 2.8 2.6 2.5 45N 2.4 2.3 2.2 -1008 2.1 40N 2 026 1.9 1.8 35N 1.7 1.6 1.5 1.4 30N 1.3 1026 1.2 1.1 25N 0.95 0.9 0.85 20N 0.8 0.75 0.7 15N 0.65 0.6 0.55 10N -0.5 0.45 0.4 0.35 5N 0.3 0.25 0.2 EQ. 0.15 0.1 **1008** 0.05 0.02 55 -0.01 160W 150W 140W 130W 120W 110W 100W 9ÓW

GFS Total Accumulated Precipitation (inches) from 06z01Feb2016 to 00z08Feb2016



18Z Fri Feb 5

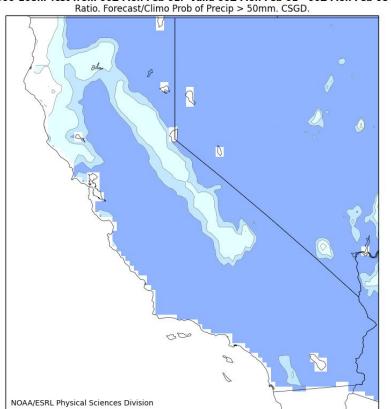


Medium - Long Range Forecast

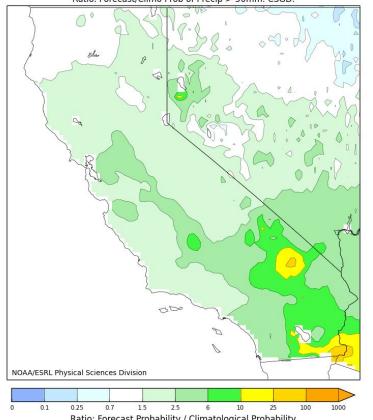
ESRL-Calibrated Reforecast Pcpn: Day 0-7 and 8-15 Day Fcst

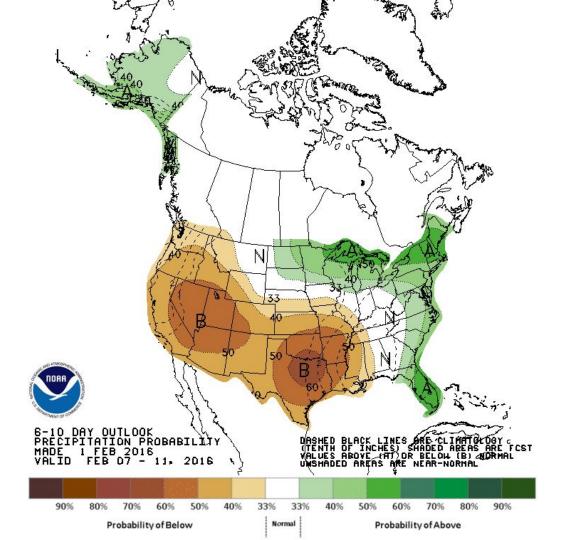
(from the OOZ MON 1 FEB ensembles of the experimental reforecast system)

000-168hr fcst from 00Z Mon Feb 01. Valid 00Z Mon Feb 01 - 00Z Mon Feb 08



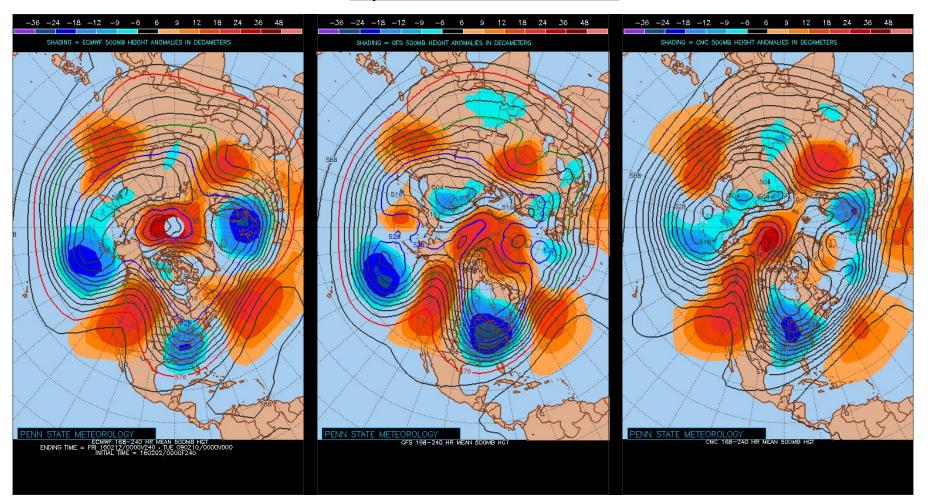
198-360hr fcst from 00Z Mon Feb 01. Valid 06Z Tue Feb 09 - 00Z Tue Feb 16 Ratio. Forecast/Climo Prob of Precip > 50mm. CSGD.

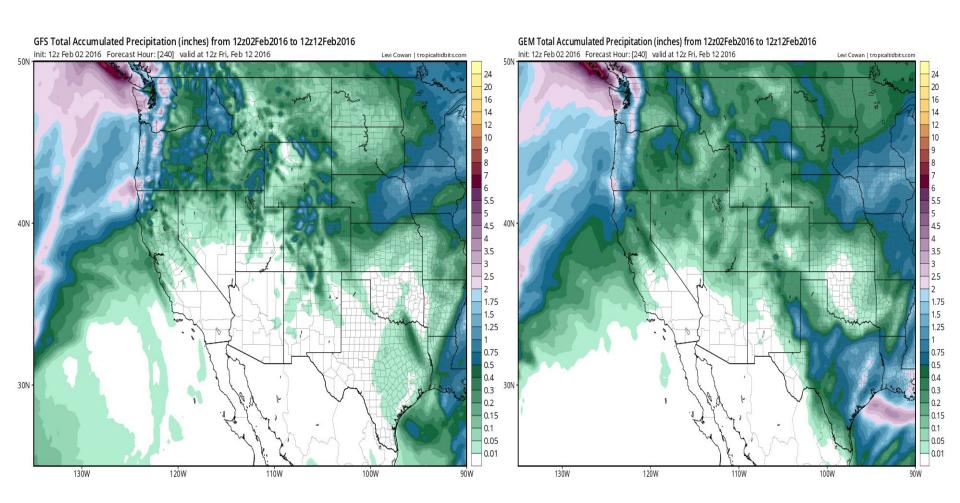




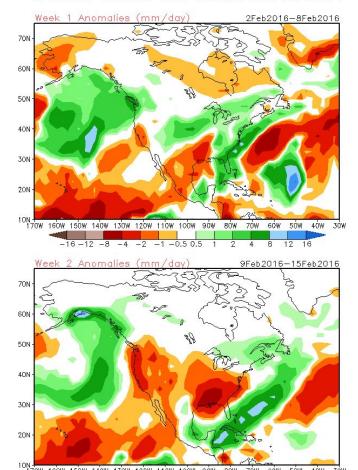
Medium - Long Range Forecast

Day 7-10 Initialized 00Z TUES 2 Feb





CFSv2 Weeks 1 & 2 Precipitation 16 Member Ensemble Mean Forecast from 01Feb2016



-16-12-8-4-2-1-0.50.5 1 2 4 8 12 16

CFSv2 Weeks 1 & 2 Precipitation 16 Member Ensemble Mean Forecast from 25Jan2016

