

Summary of Key Briefing Points
1030-1130am MST MON February 8, 2016

Current Conditions as of MON 12Z-15Z February 8

Tropics and Mid-latitudes

Over the Tropical Pacific:

- Convection: Active in region 170W-140W, 5-10N, associated with frontal-like forcing
- Satellite upper level winds show 20-30kt WSW winds to about 6N in region 170W-140W

Tropical Outlook

- GFS and EC broadly consistent in a gradual return of precipitation in the 0-10N, 140W-Dateline region over next few days

Midlatitude Conditions/Outlook

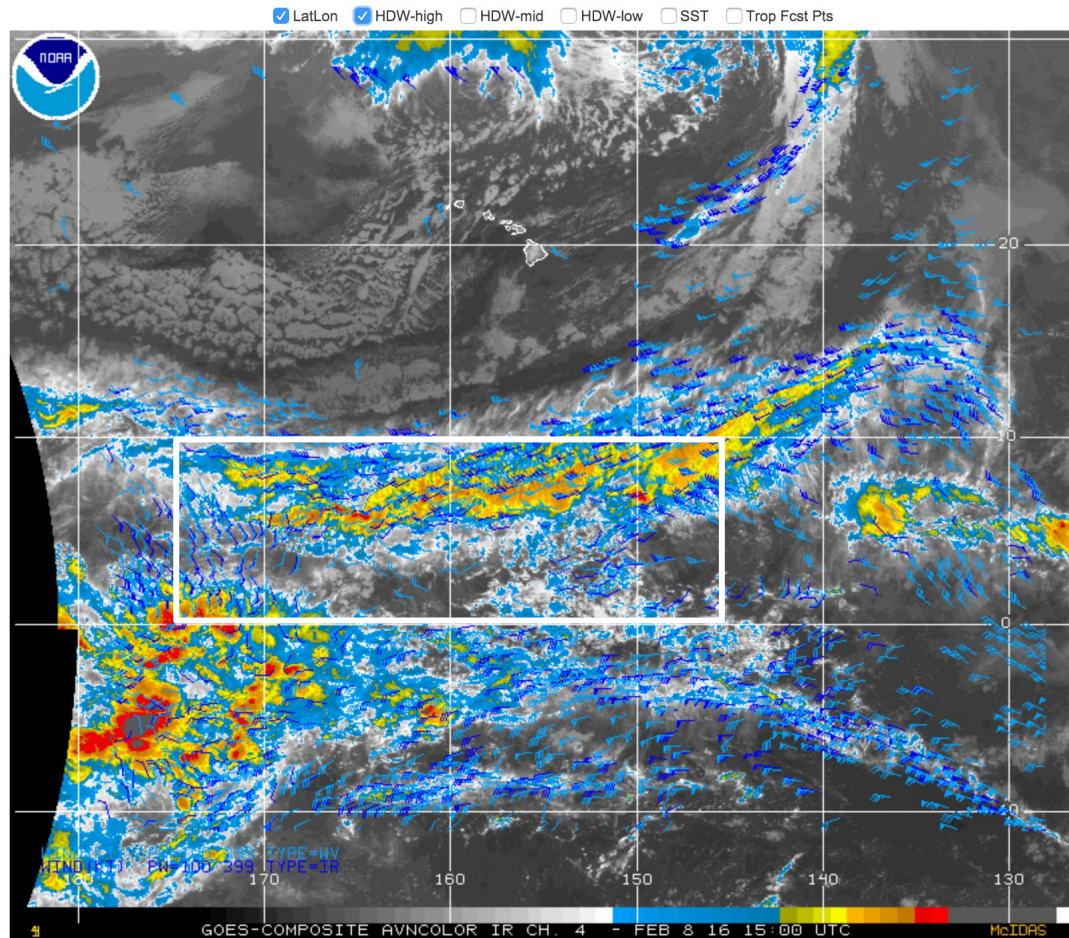
Short Term:

- CA mostly quiet

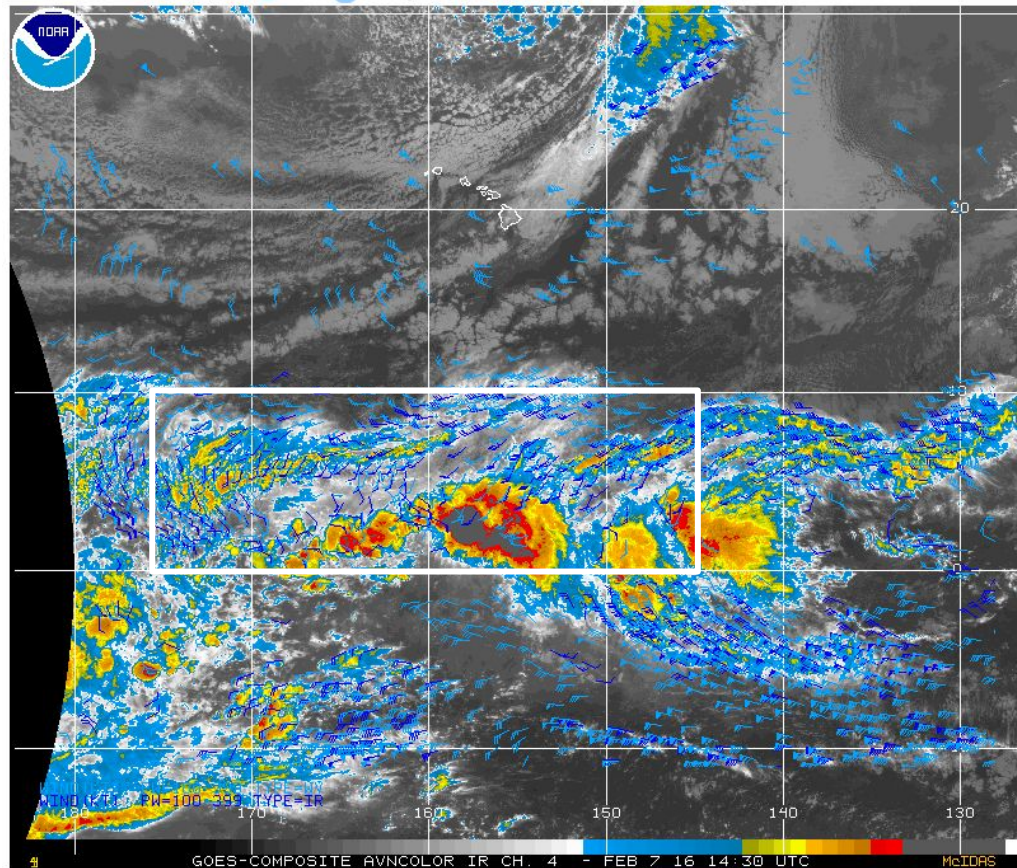
Medium - Long Term:

- Day 0-7 accumulated pcpn for CA shows little pcpn

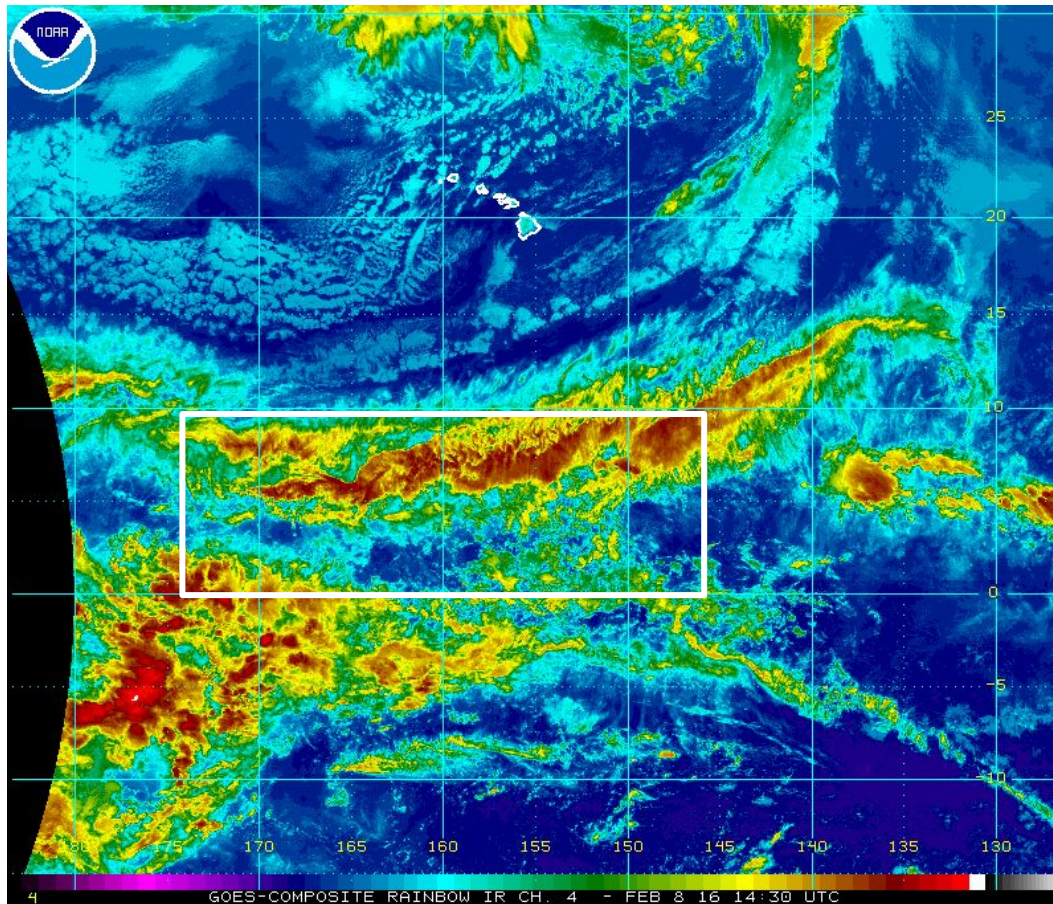
MON 15Z February 8 Enhanced IR + Upper Level Winds



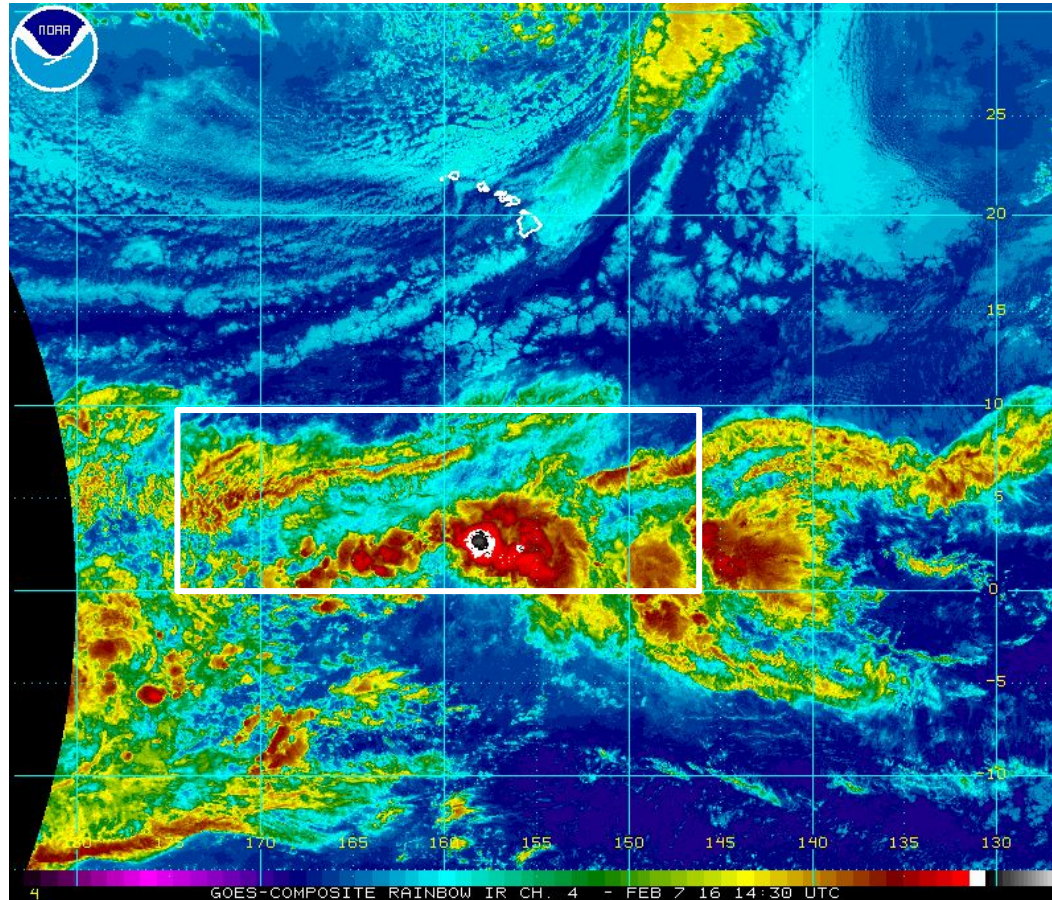
SUN 14:30Z February 7 Enhanced IR + Upper Level Winds



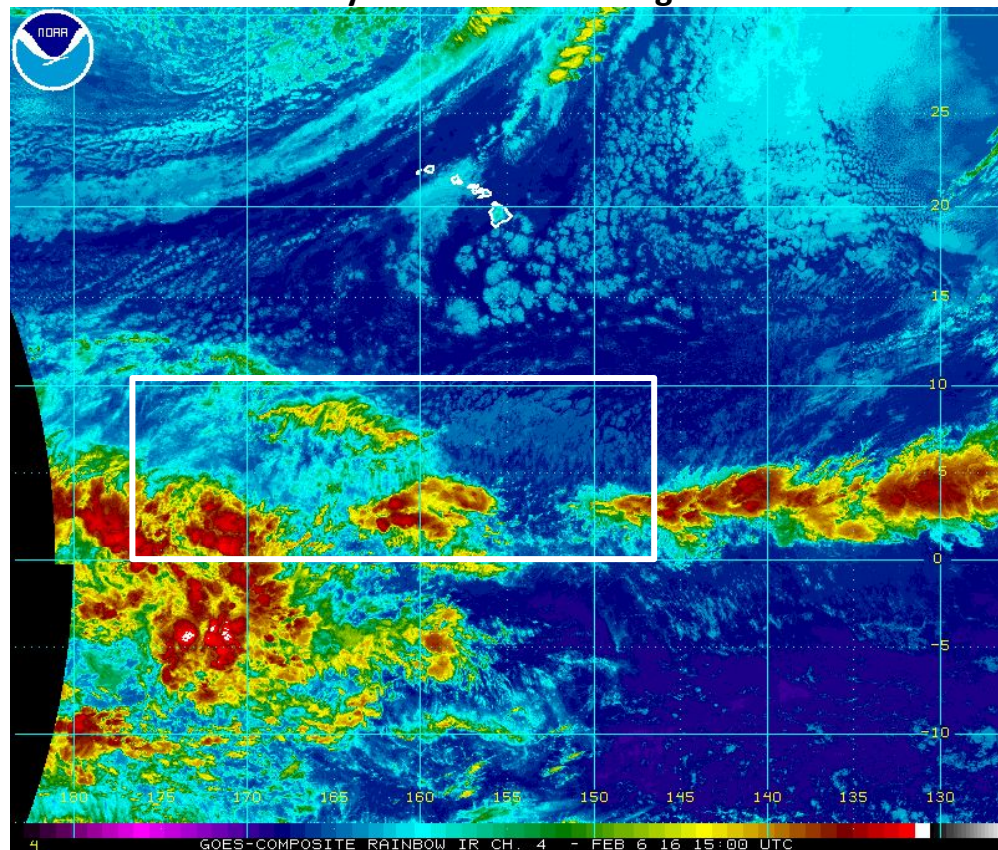
MON 14:30Z February 8 Enhanced IR Image



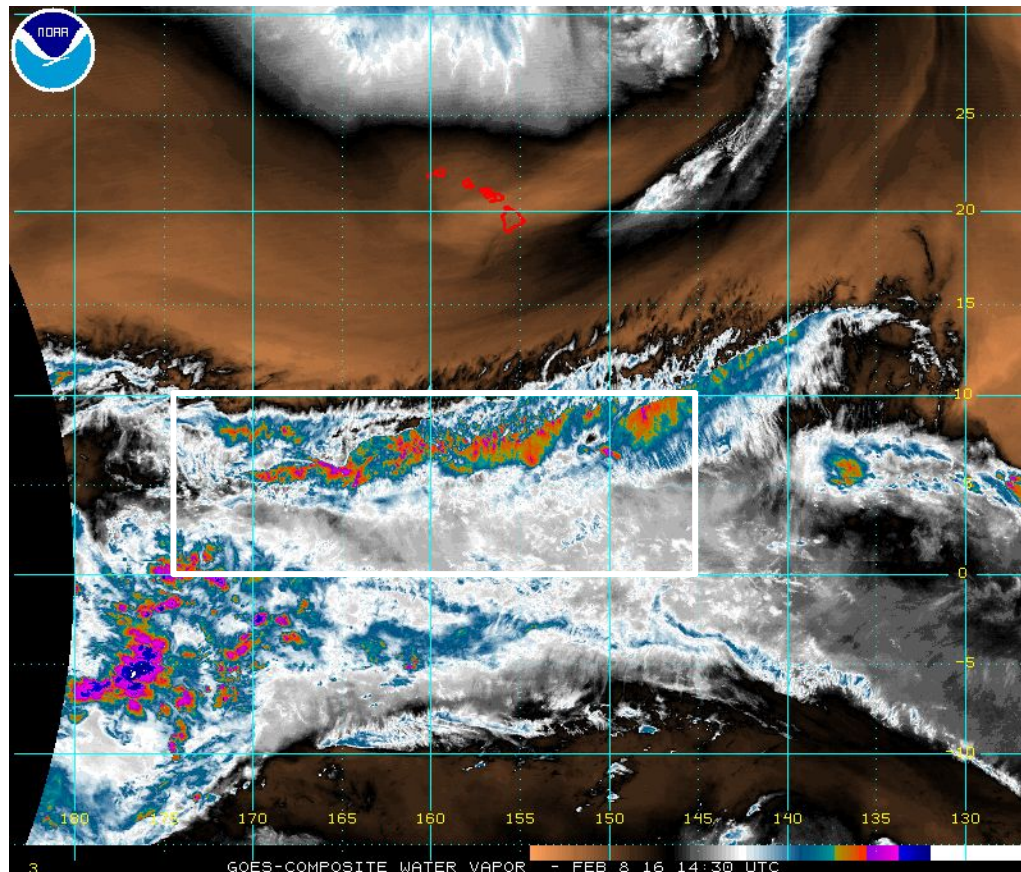
SUN 14:30Z February 7 Enhanced IR Image



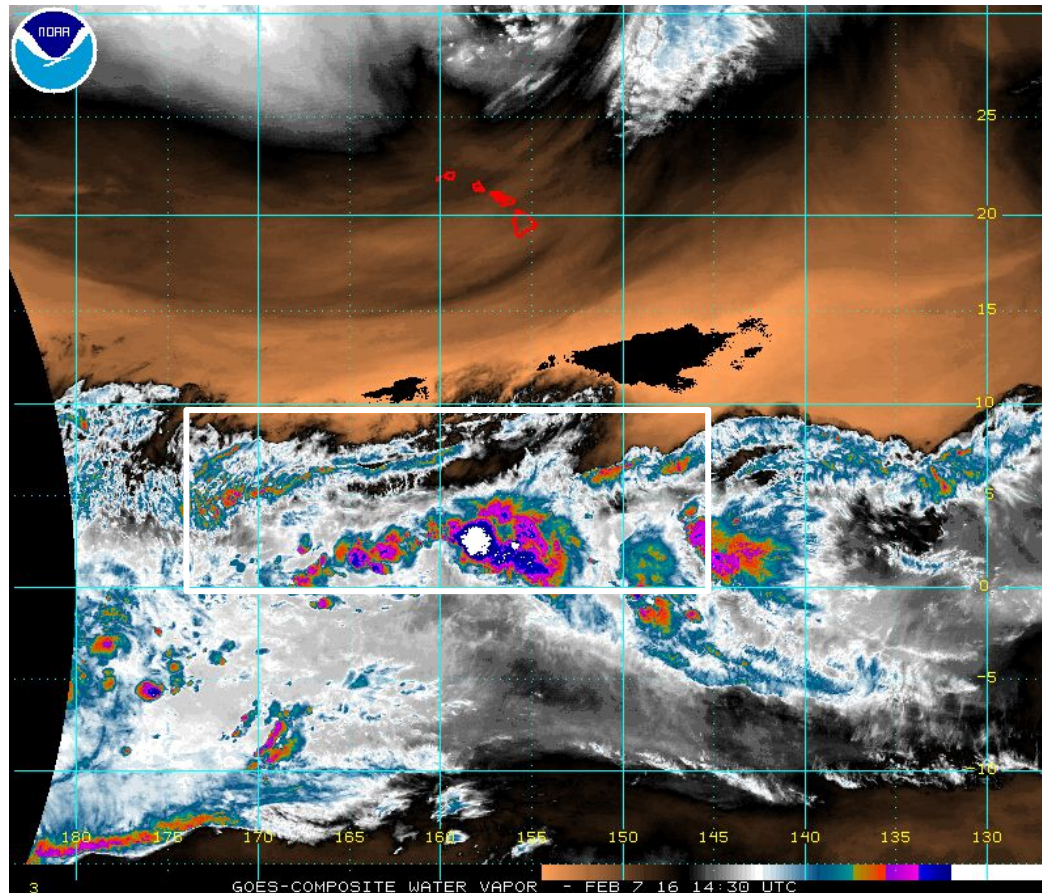
SAT 15Z February 6 Enhanced IR Image



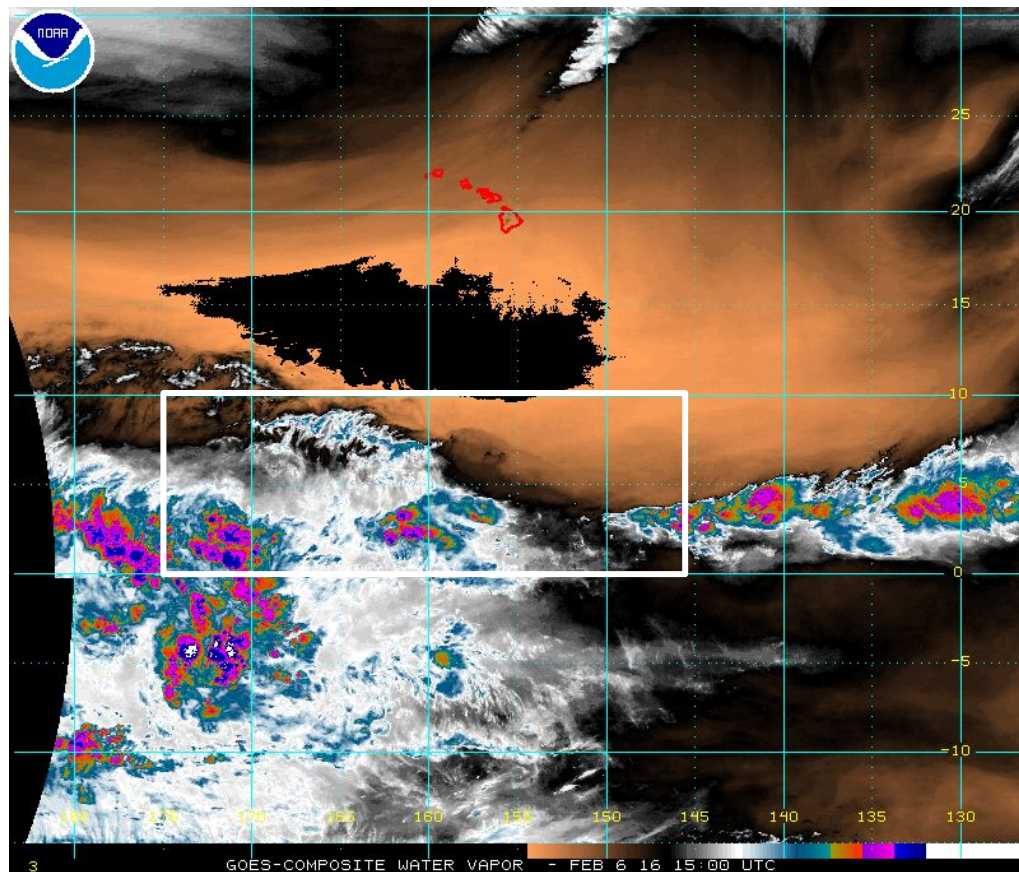
MON 14:30Z February 8 Water Vapor



SUN 14:30Z February 7 Water Vapor

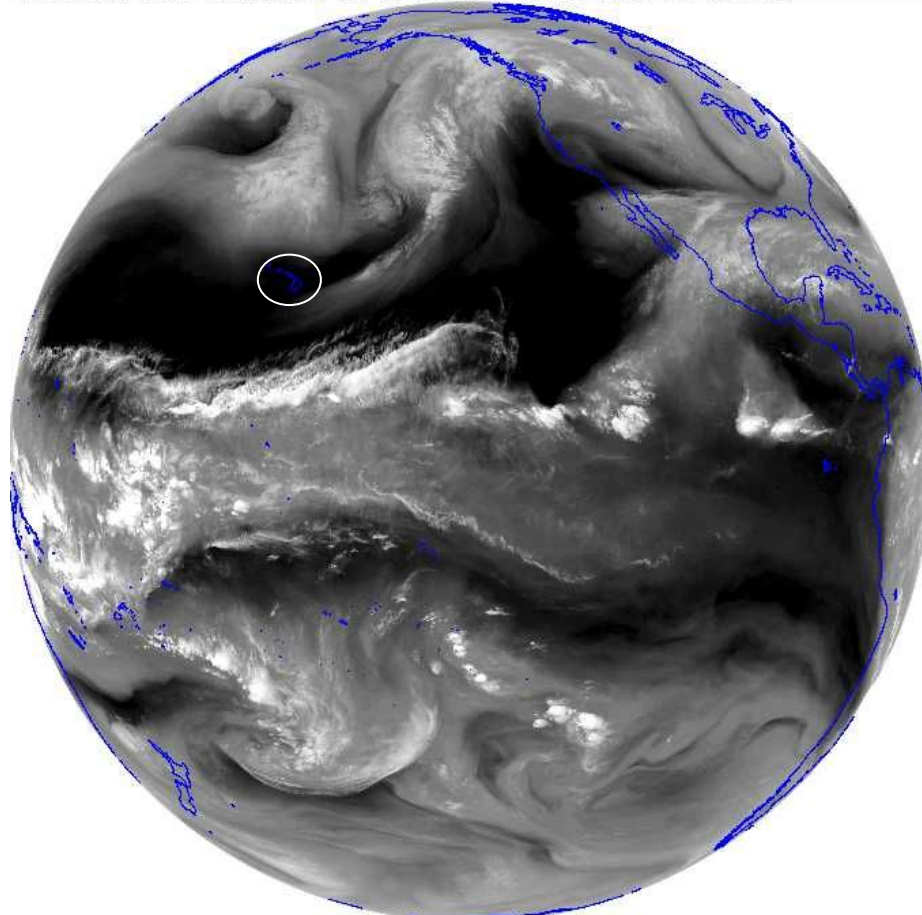


SAT 15Z February 6 Water Vapor



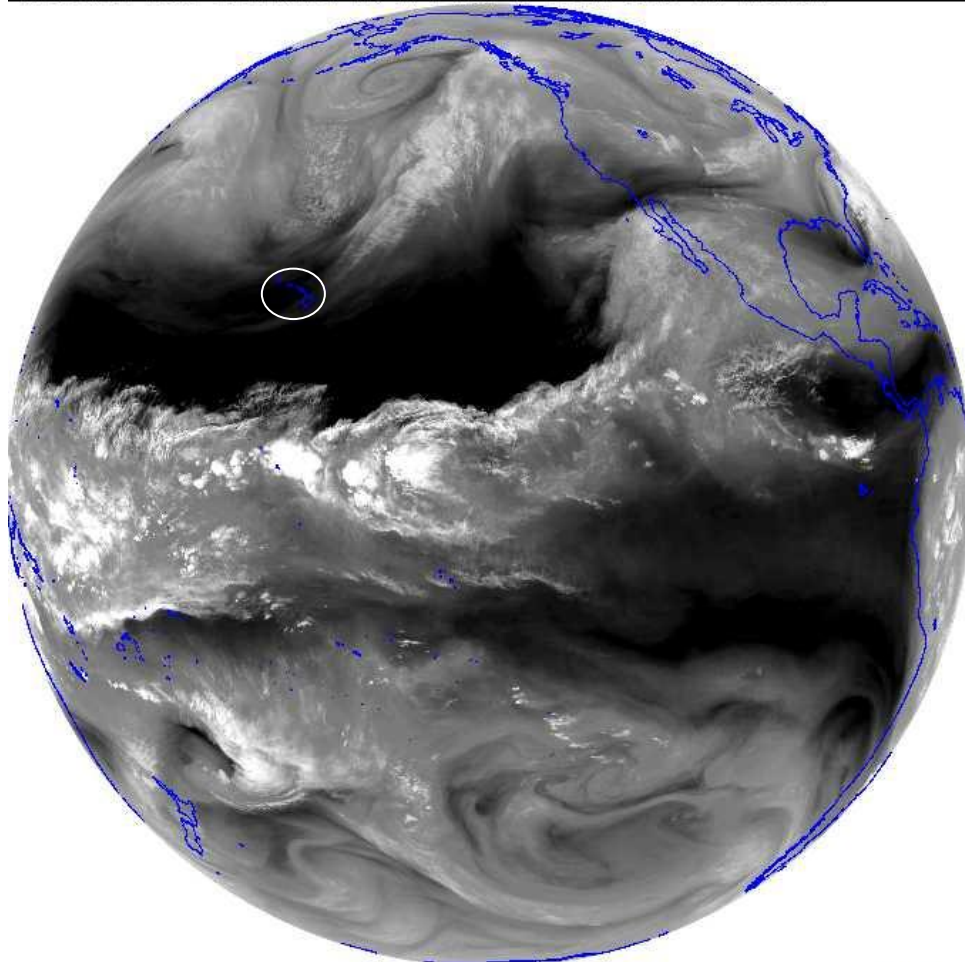
MON 15Z February 8 GOES West Water Vapor Image

GOES WEST FULL DISK WATER VAPOR 8 FEB 16 15:00 SSEC: UW-MADISON

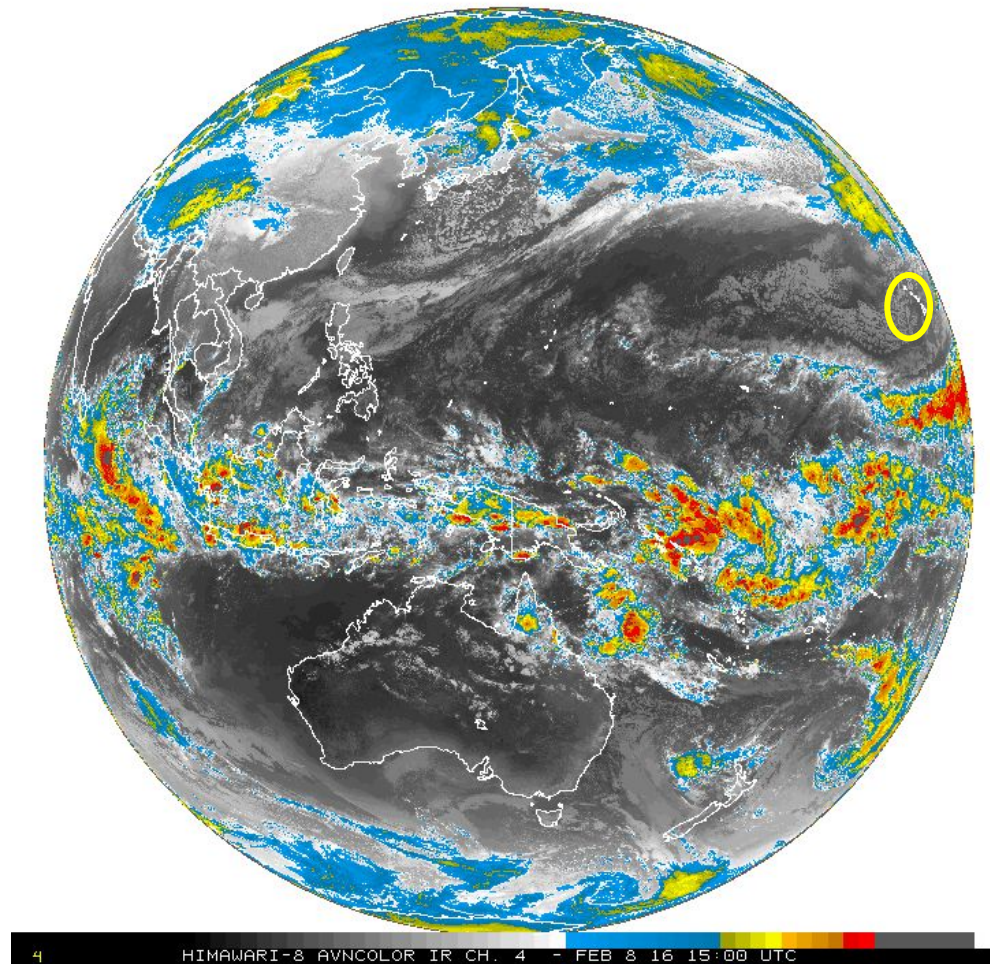


SUN 12Z February 7 GOES West Water Vapor Image

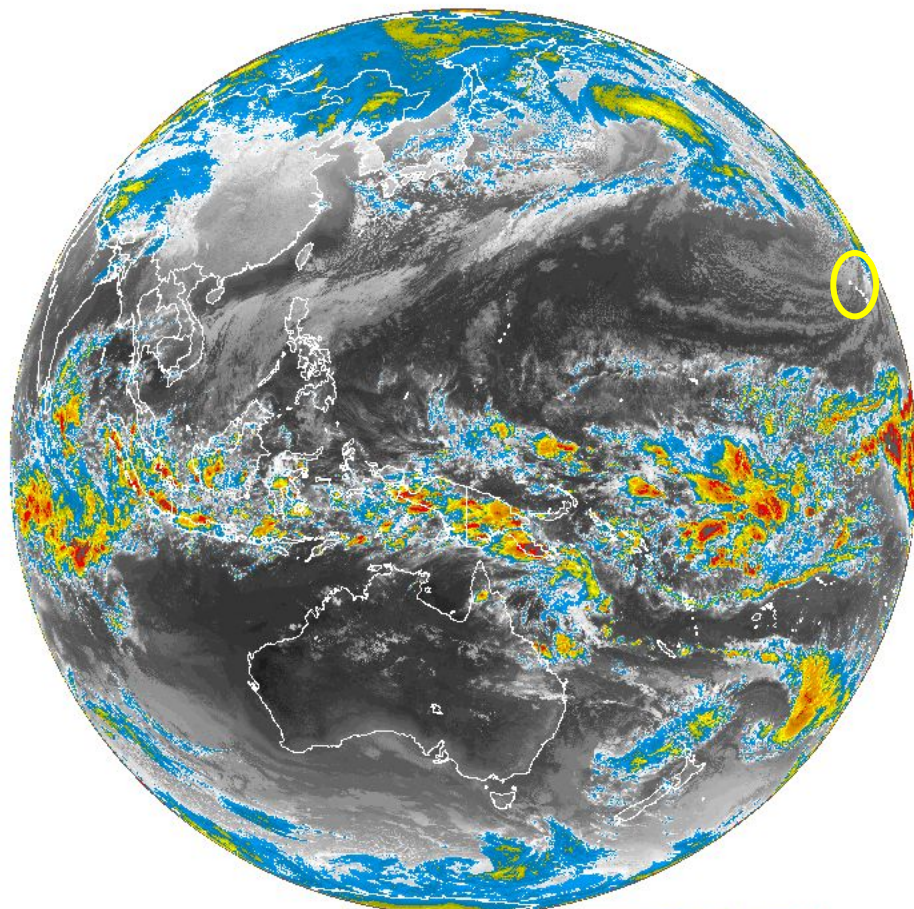
GOES WEST FULL DISK WATER VAPOR 7 FEB 16 12:00 SSEC: UW-MADISON



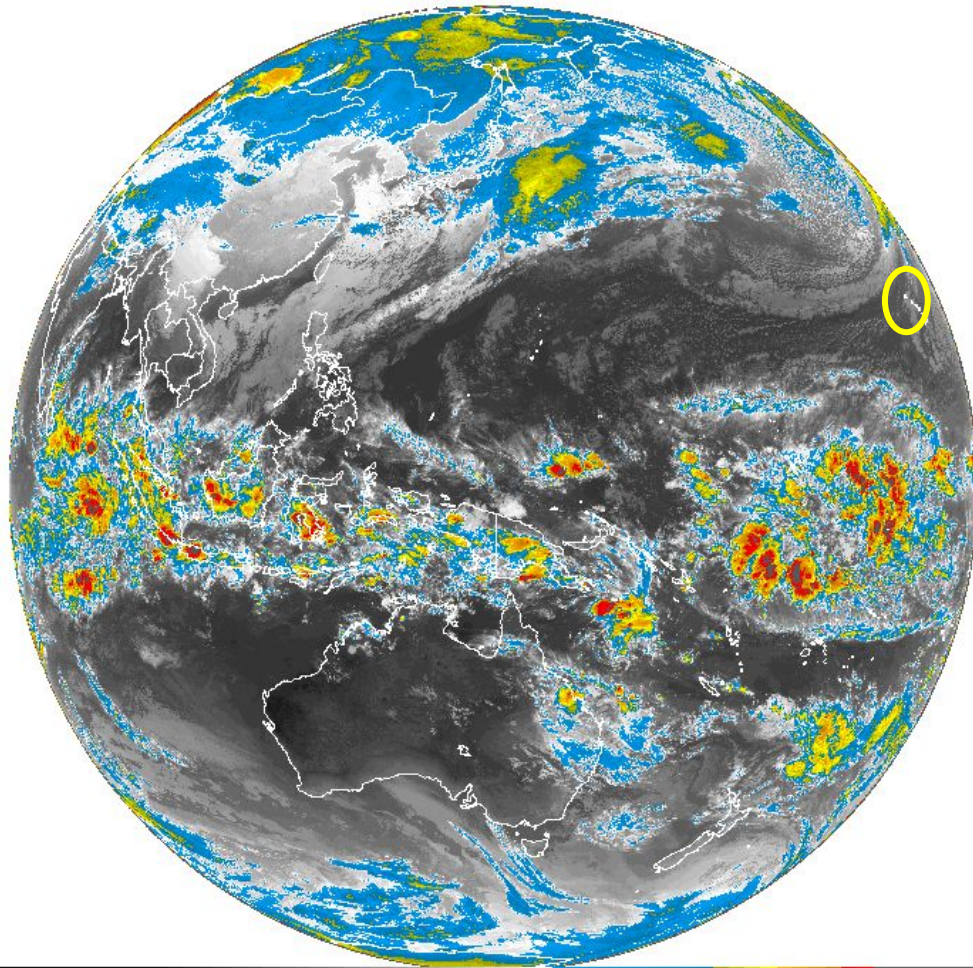
MON 15Z February 8 GOES West Pacific



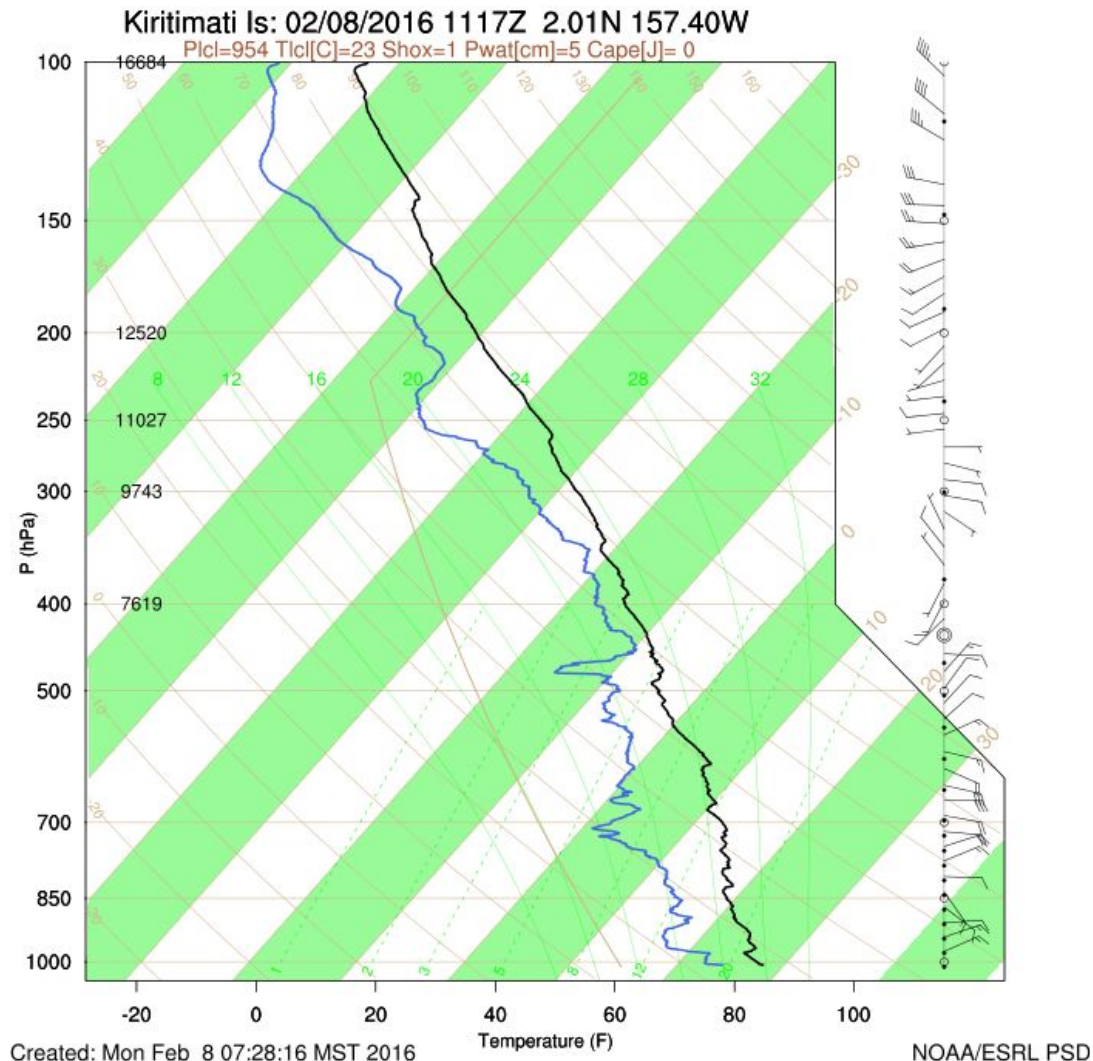
SUN 14:30Z February 7 GOES West Pacific



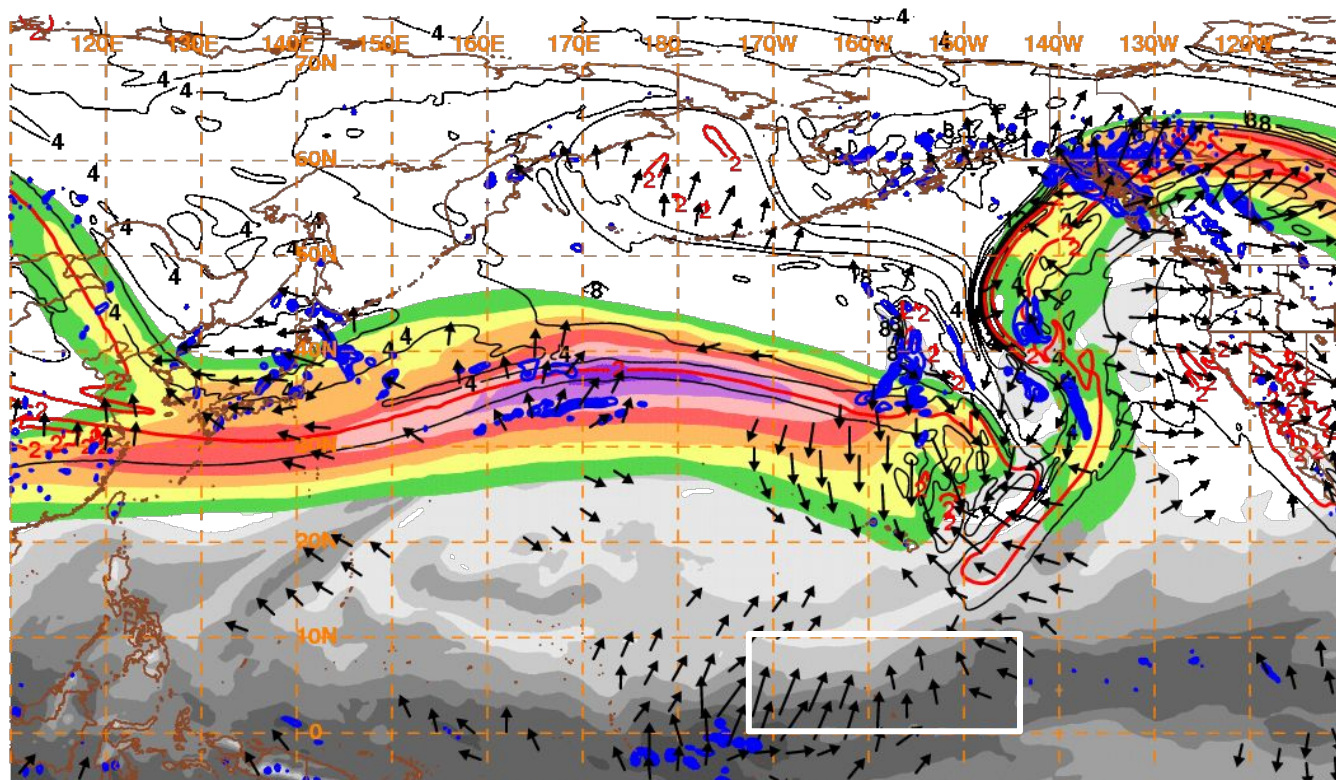
SAT 14Z February 6 GOES West Pacific



Kiritimati Sonde: 1117Z
Mon Feb 8



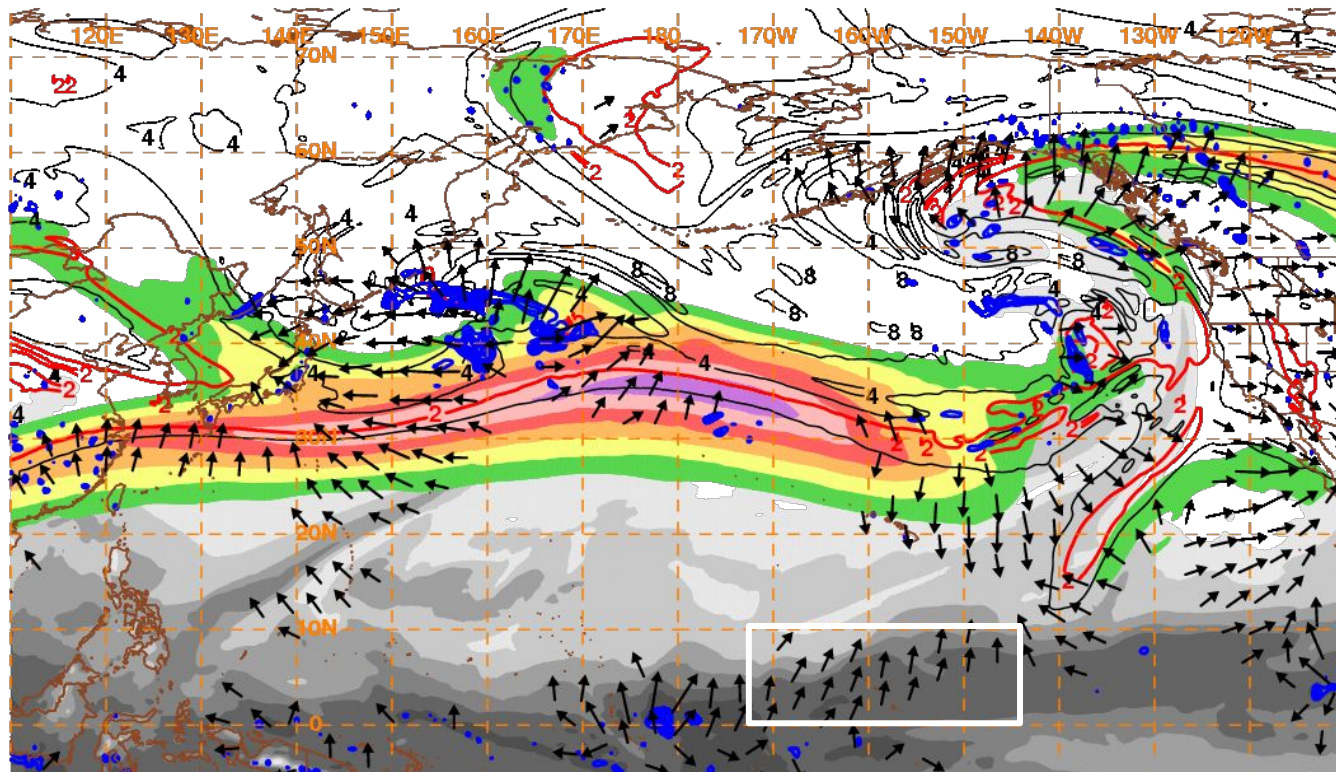
GFS 18HR FCST Valid 00Z TUE Feb 9: 200 mb DIV Wind Vectors



10 m/s → 160209/0000V018 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel



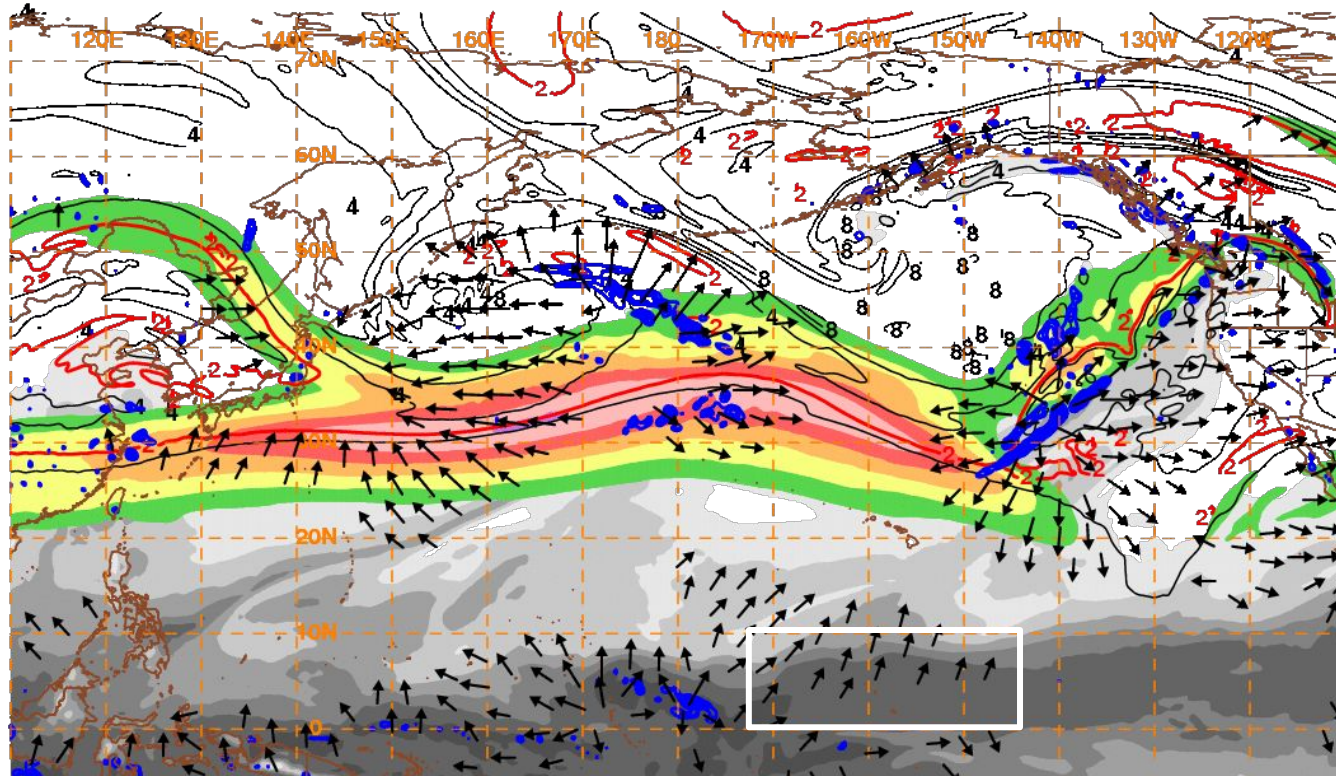
GFS 42HR FCST Valid 00Z TUE Feb 9: 200 mb DIV Wind Vectors



10 m/s → **160210/0000V042 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel**



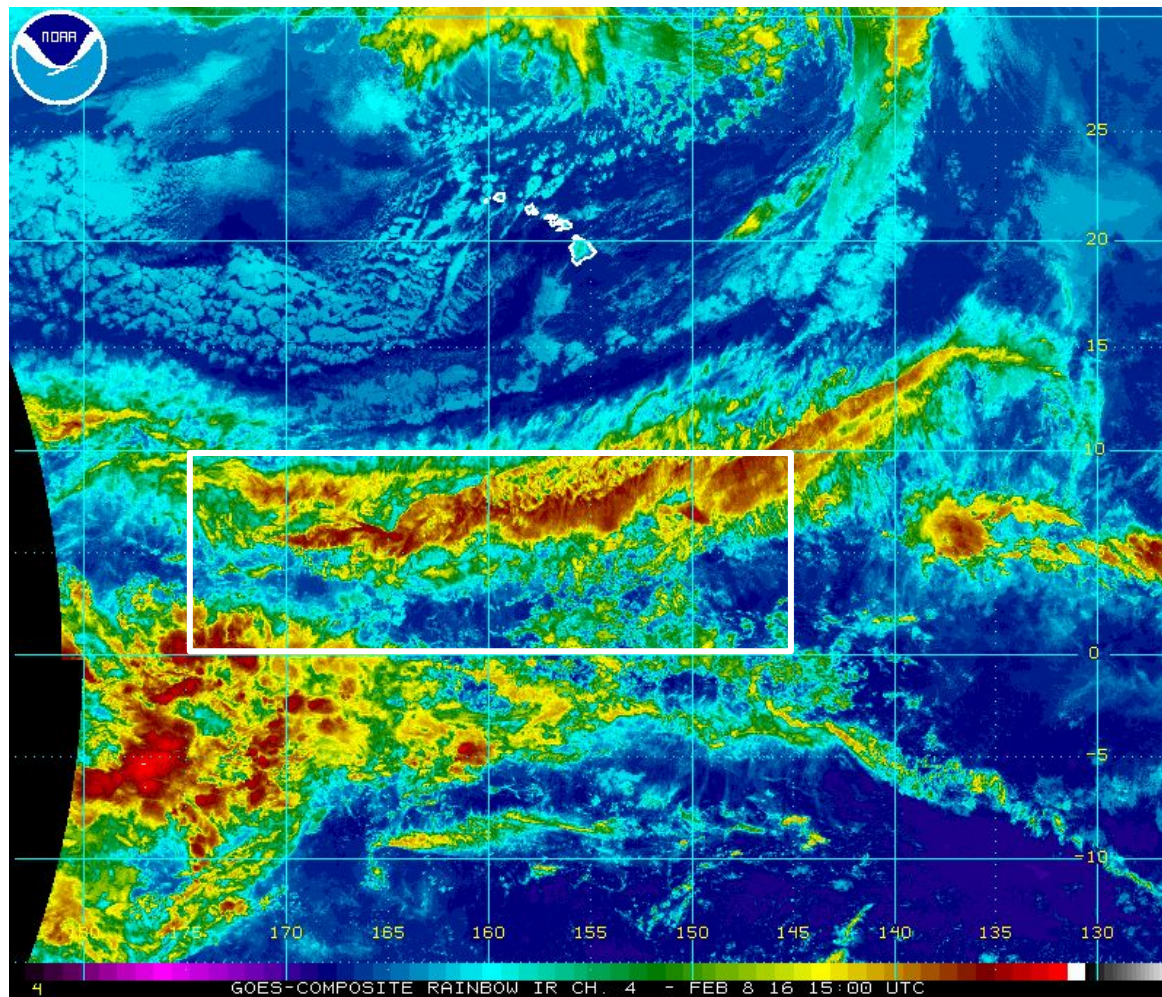
GFS 66HR FCST Valid 00Z WED Feb 10: 200 mb DIV Wind Vectors



10 m/s → 160211/0000V066 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel



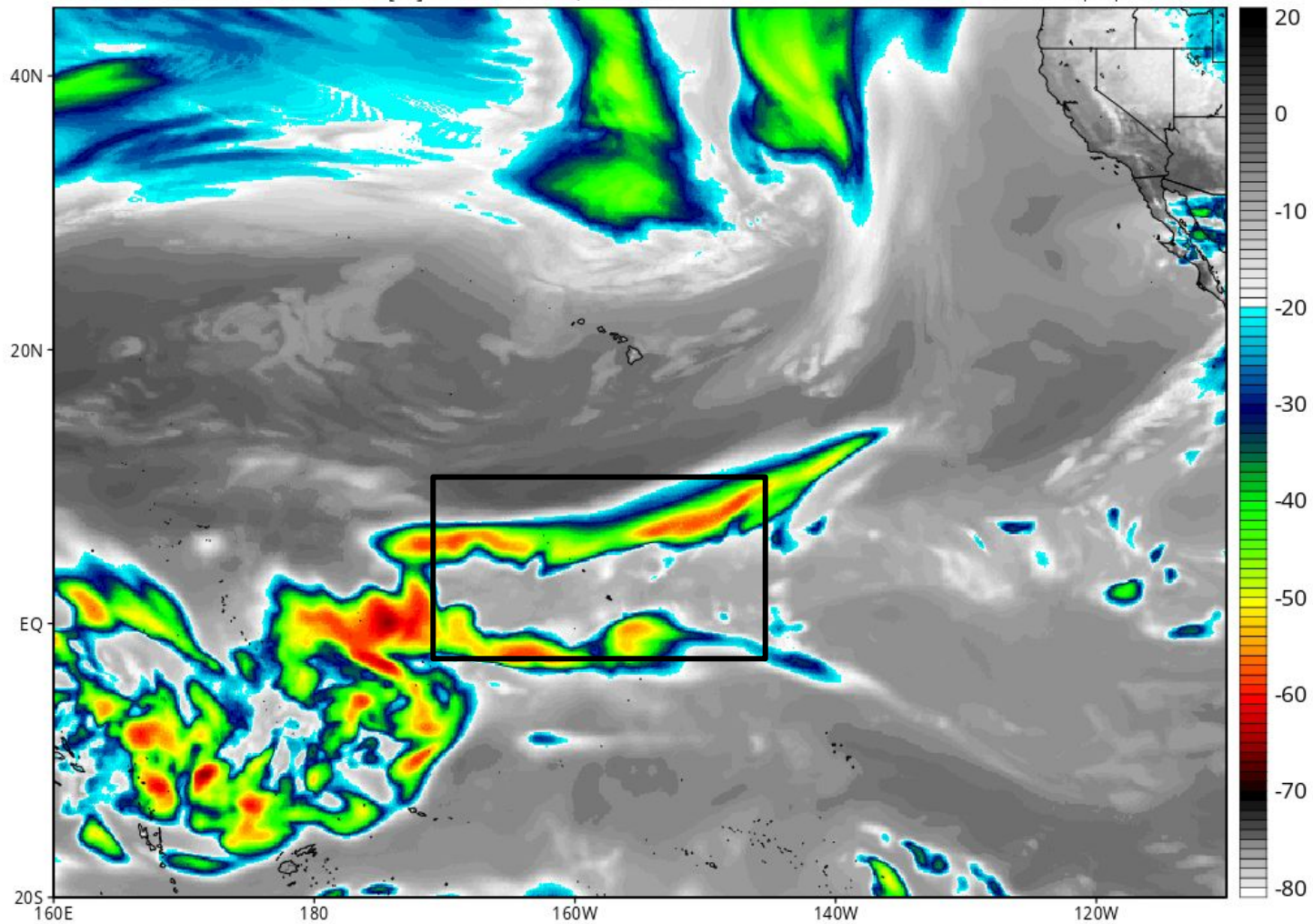
MON 15Z February 8 Enhanced IR Image



GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 08 2016 Forecast Hour: [12] valid at 00z Tue, Feb 09 2016

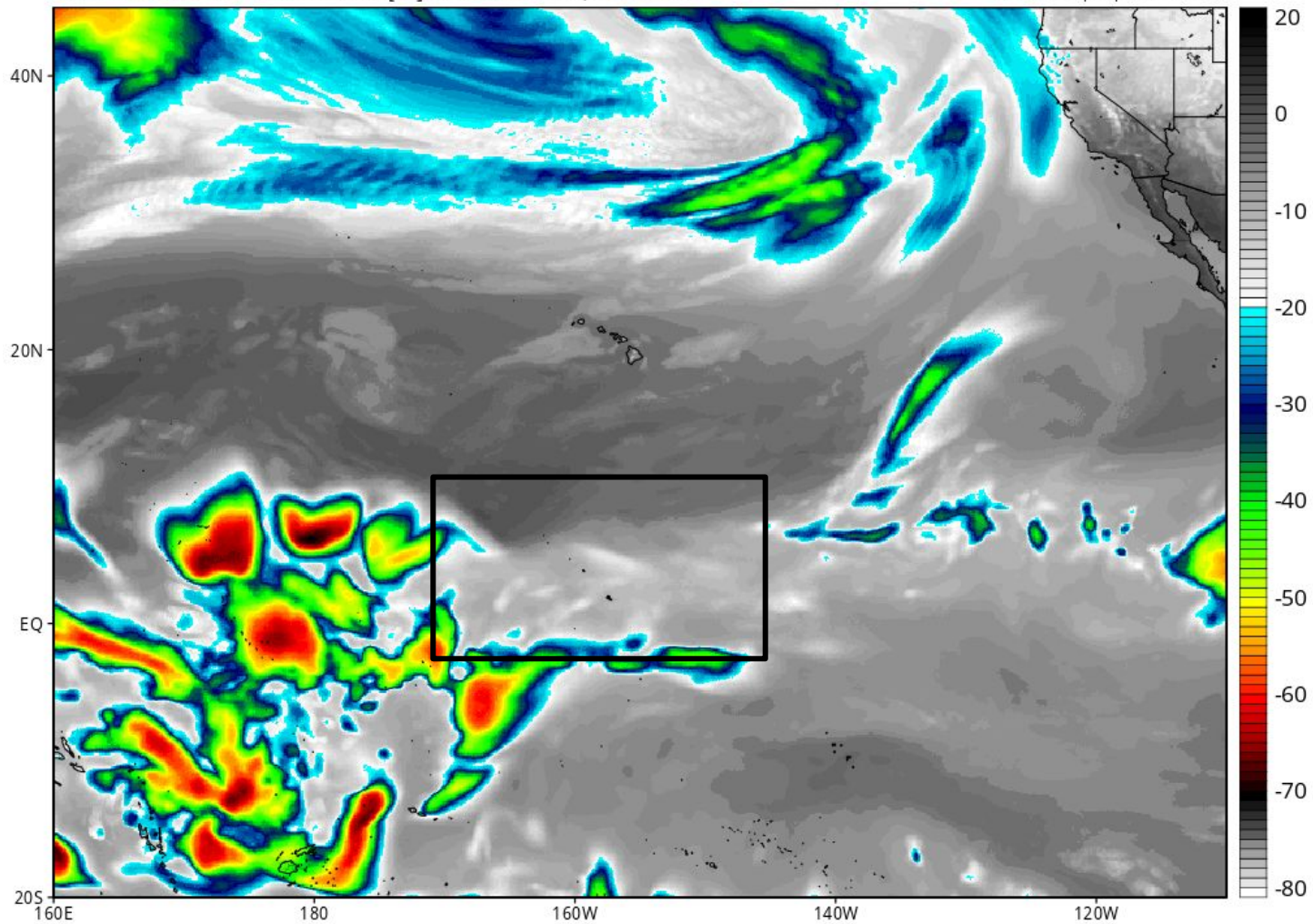
Levi Cowan | tropicaltidbits.com



GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 08 2016 Forecast Hour: [36] valid at 00z Wed, Feb 10 2016

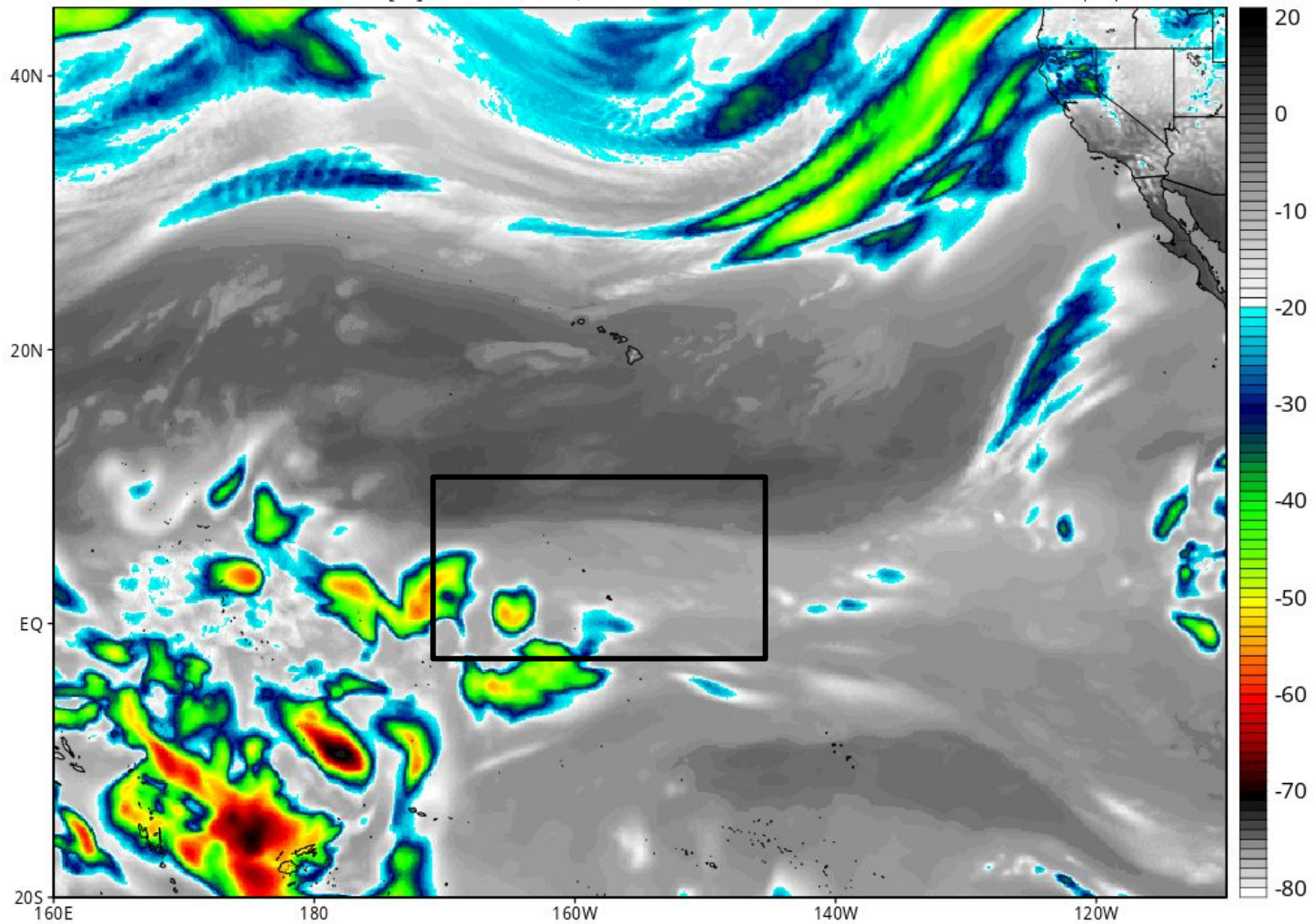
Levi Cowan | tropicaltidbits.com



GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 08 2016 Forecast Hour: [60] valid at 00z Thu, Feb 11 2016

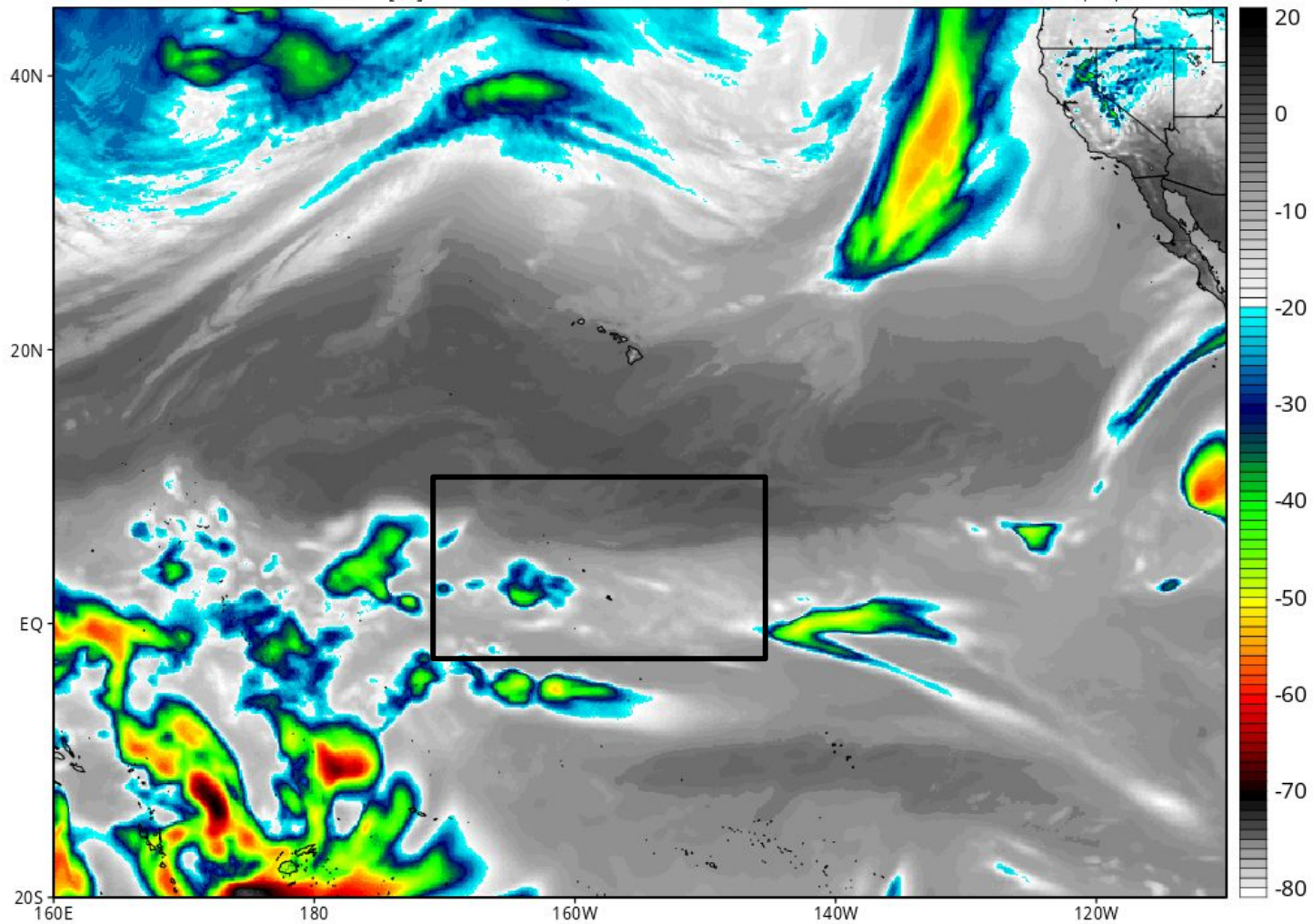
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GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 08 2016 Forecast Hour: [84] valid at 00z Fri, Feb 12 2016

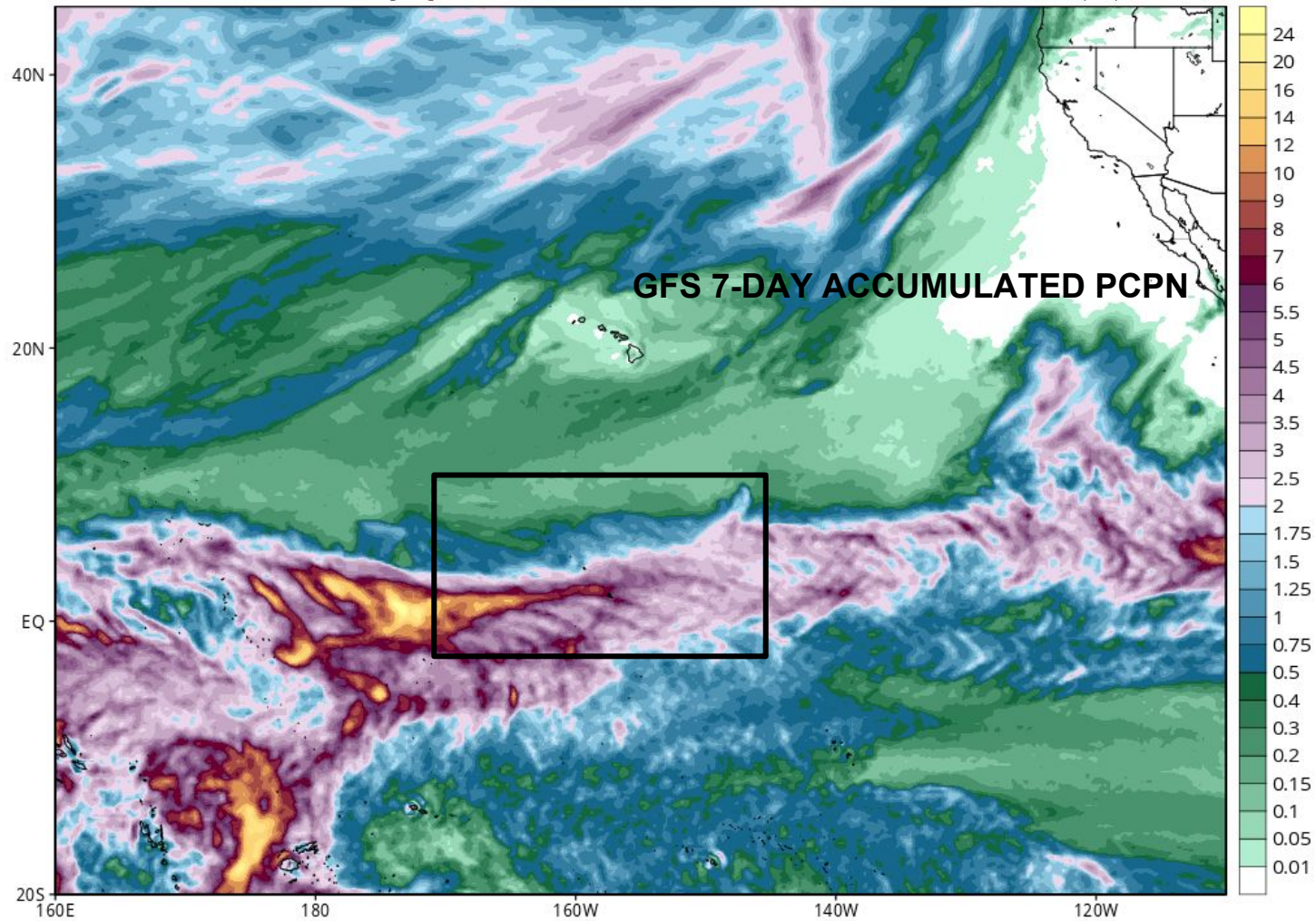
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GFS Total Accumulated Precipitation (inches) from 06z08Feb2016 to 00z15Feb2016

Init: 06z Feb 08 2016 Forecast Hour: [162] valid at 00z Mon, Feb 15 2016

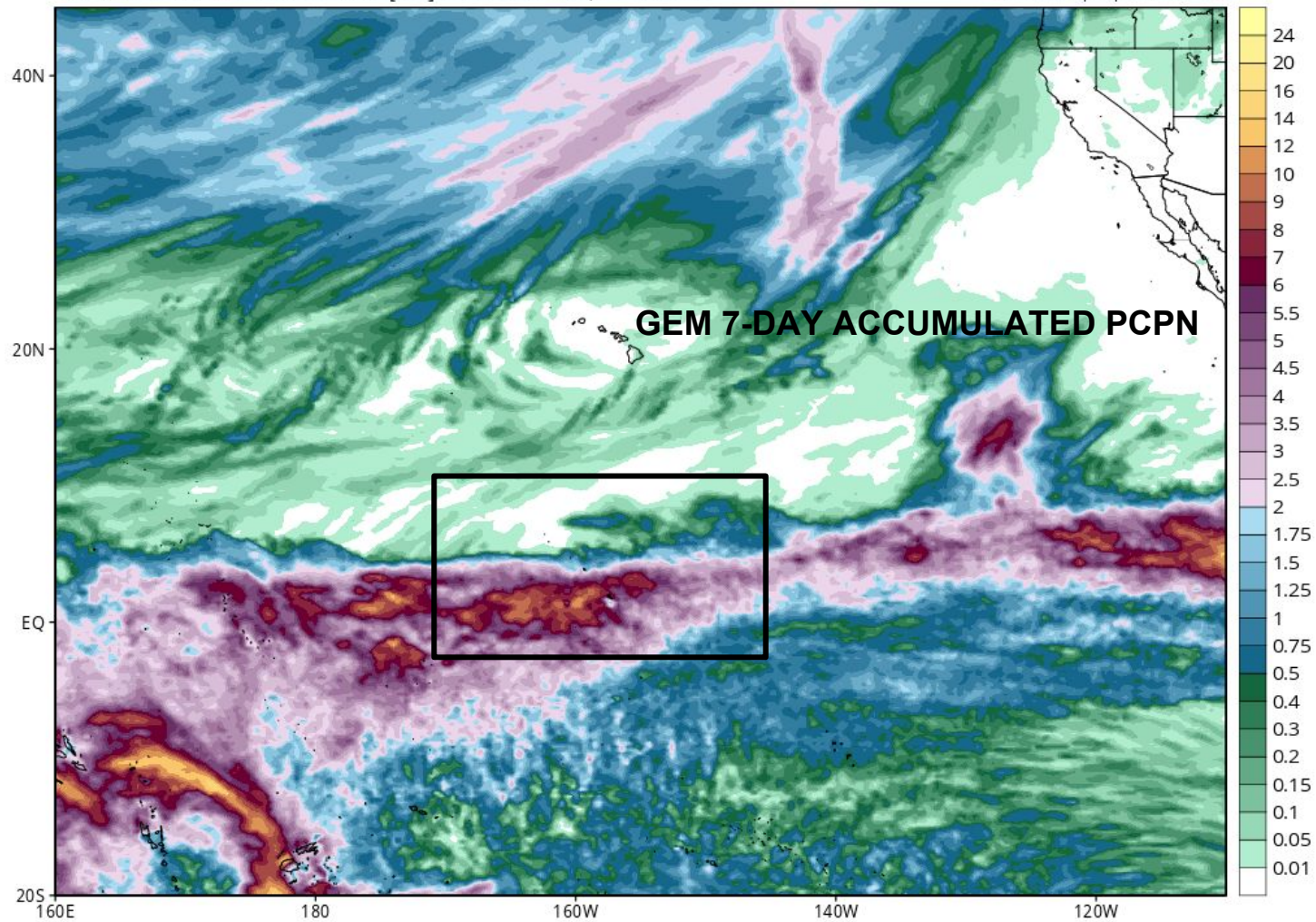
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GEM Total Accumulated Precipitation (inches) from 00z08Feb2016 to 18z14Feb2016

Init: 00z Feb 08 2016 Forecast Hour: [162] valid at 18z Sun, Feb 14 2016

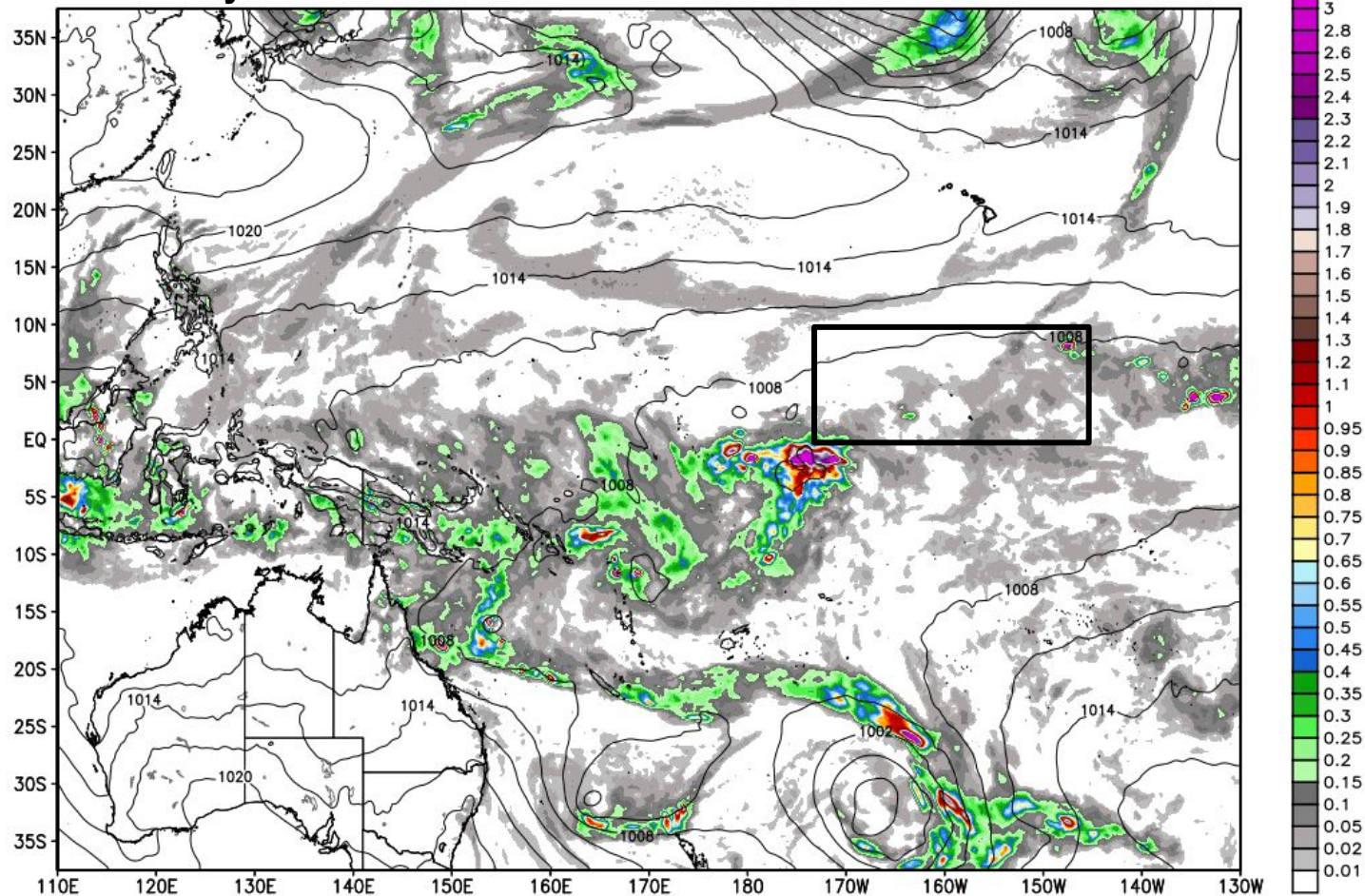
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ECMWF 6-hourly Precipitation [inches] between 18Z08FEB2016 -- 00Z09FEB2016 & MSLP [hPa]
INIT: 00Z08FEB2016 fx: [024] br T> Tue 00Z09FEB2016

Courtesy WeatherBell

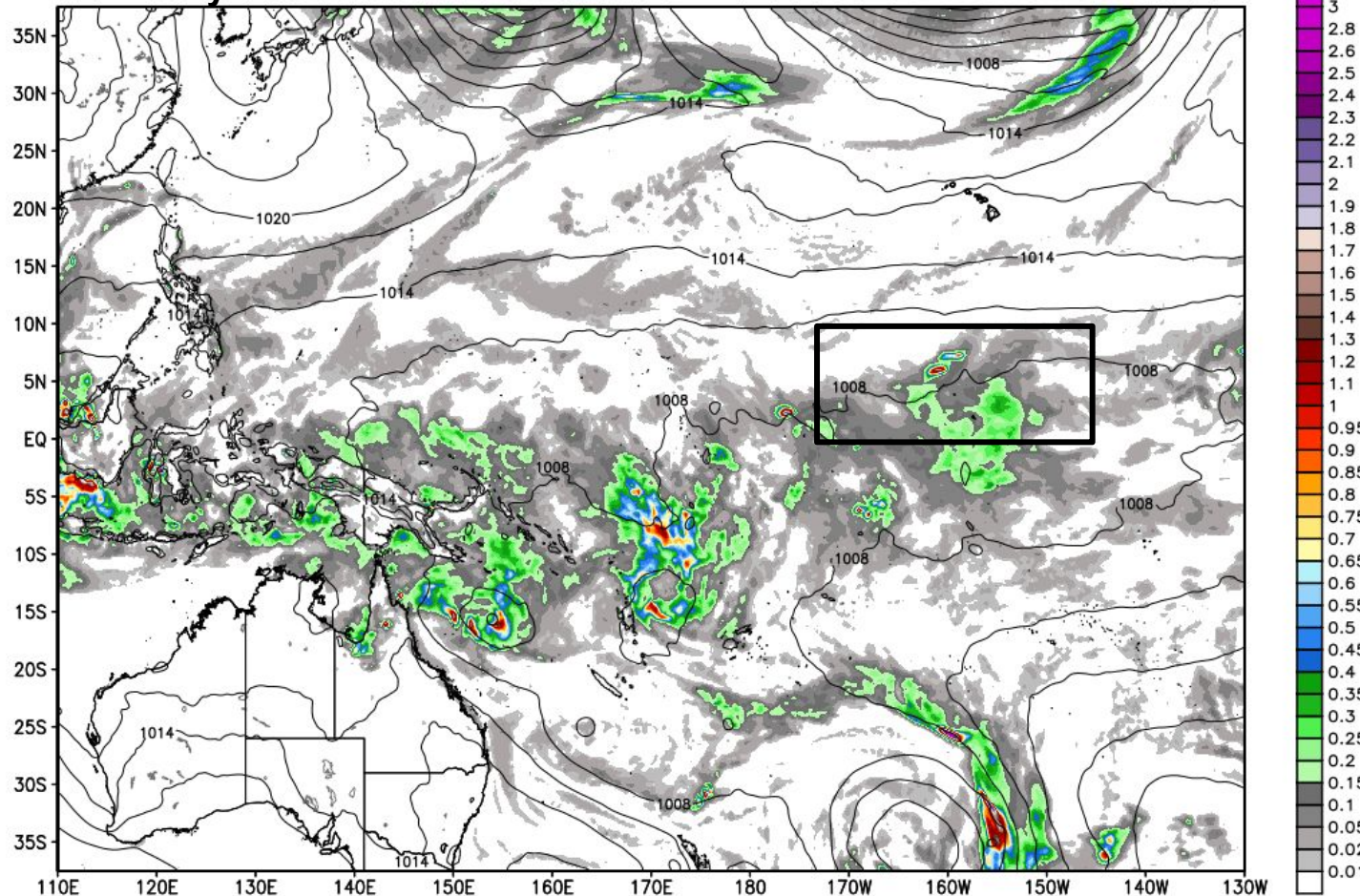
Latest ECMWF Valid 00Z Tue Feb 9



ECMWF 6-hourly Precipitation [inches] between 18Z09FEB2016 -- 00Z10FEB2016 & MSLP [hPa]
INIT: 00Z08FEB2016 fx: [048] hr --> Wed 00Z10FEB2016

Courtesy WeatherBell

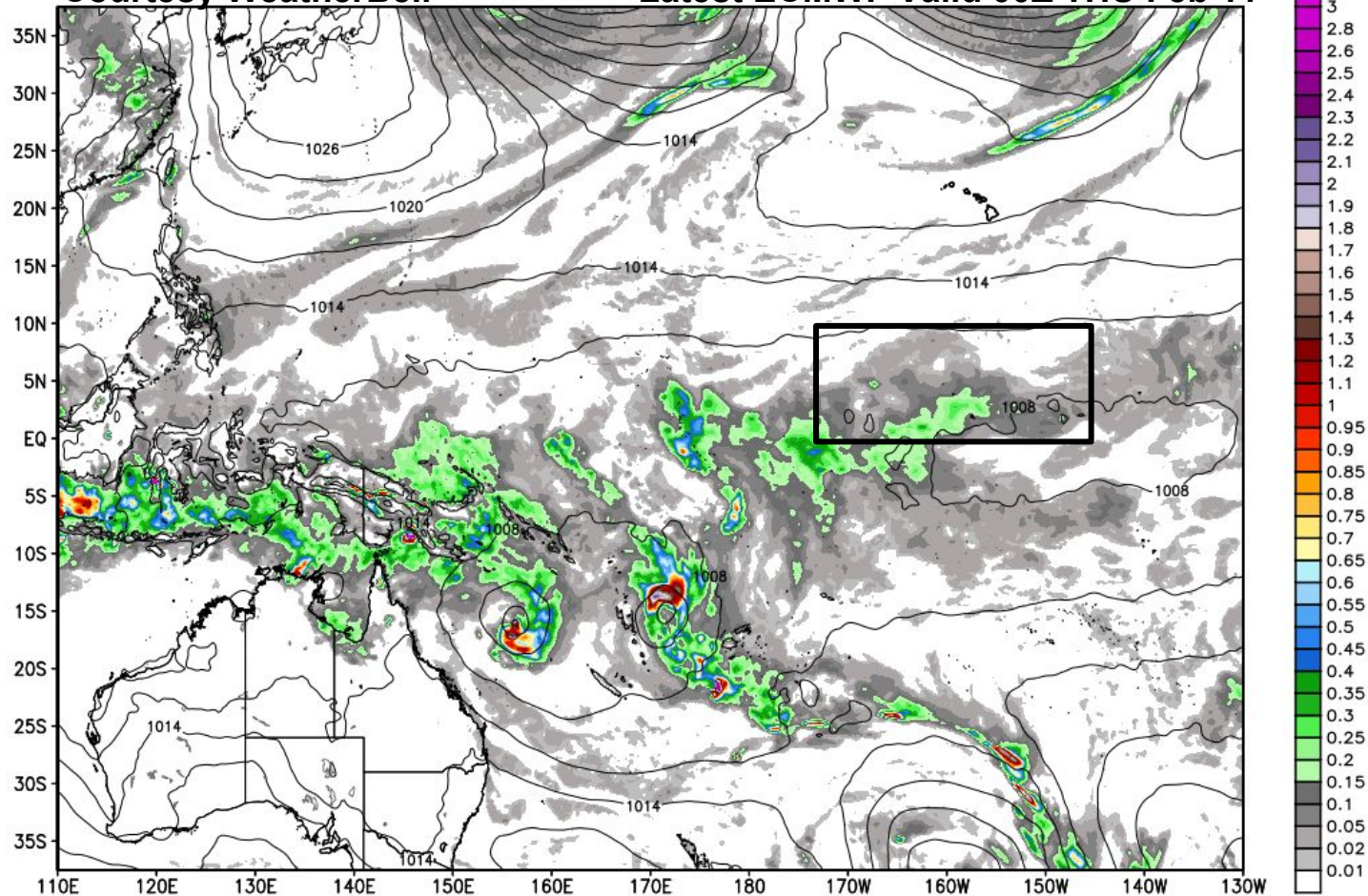
Latest ECMWF Valid 00Z WED Feb 10



ECMWF 6-hourly Precipitation [inches] between 18Z10FEB2016 -- 00Z11FEB2016 & MSLP [hPa]
INIT: 00Z08FEB2016 fx: [072] hr --> Thu 00Z11FEB2016

Courtesy WeatherBell

Latest ECMWF Valid 00Z THU Feb 11



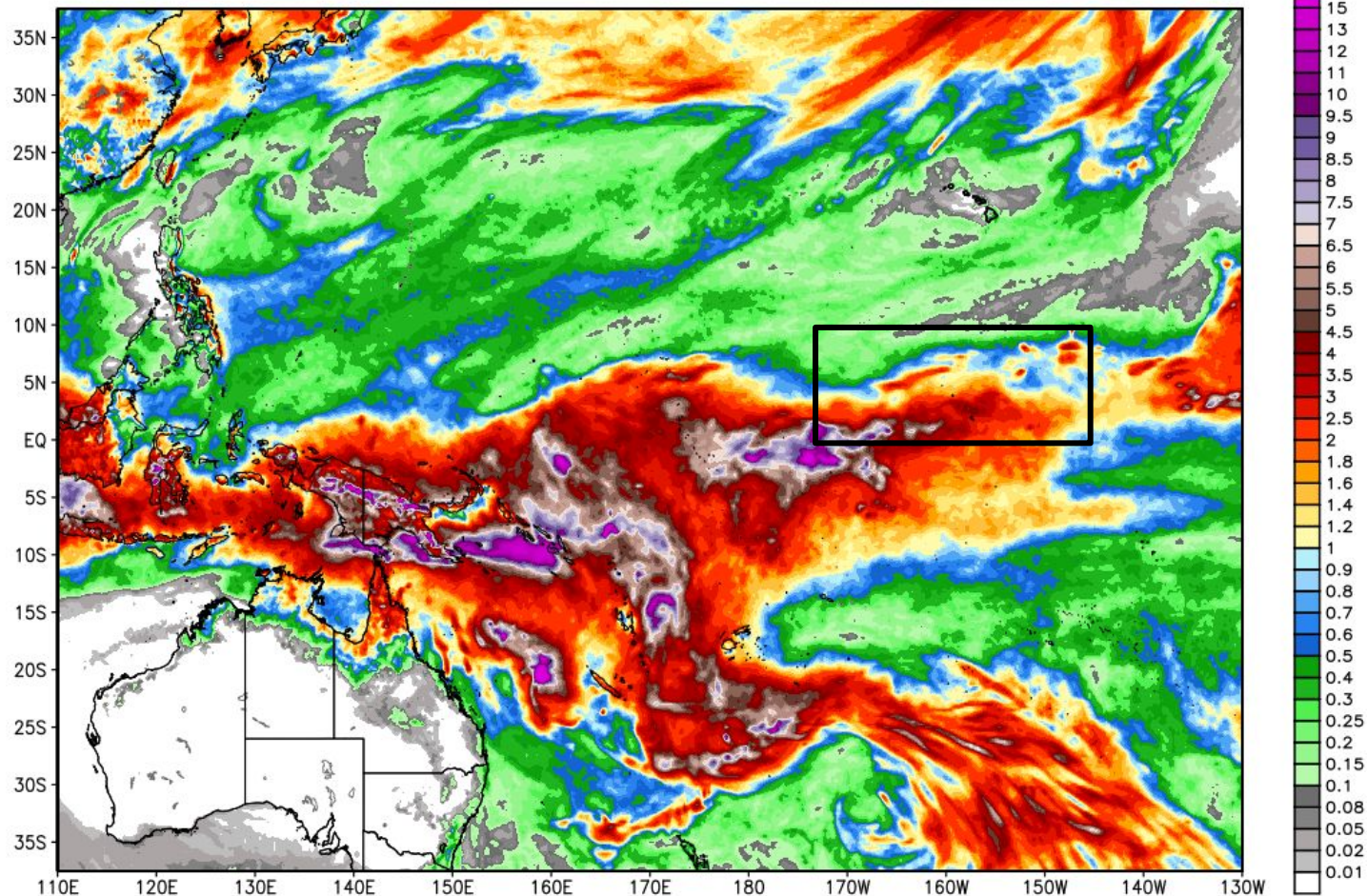
ECMWF Total Precipitation [inches] between 00Z08FEB2016 -- 00Z15FEB2016

INIT: 00Z08FEB2016 0: [168] hr --> Mon 00Z15FEB2016

Courtesy WeatherBell

Latest ECMWF 7-Day PCPN Ending Feb 16

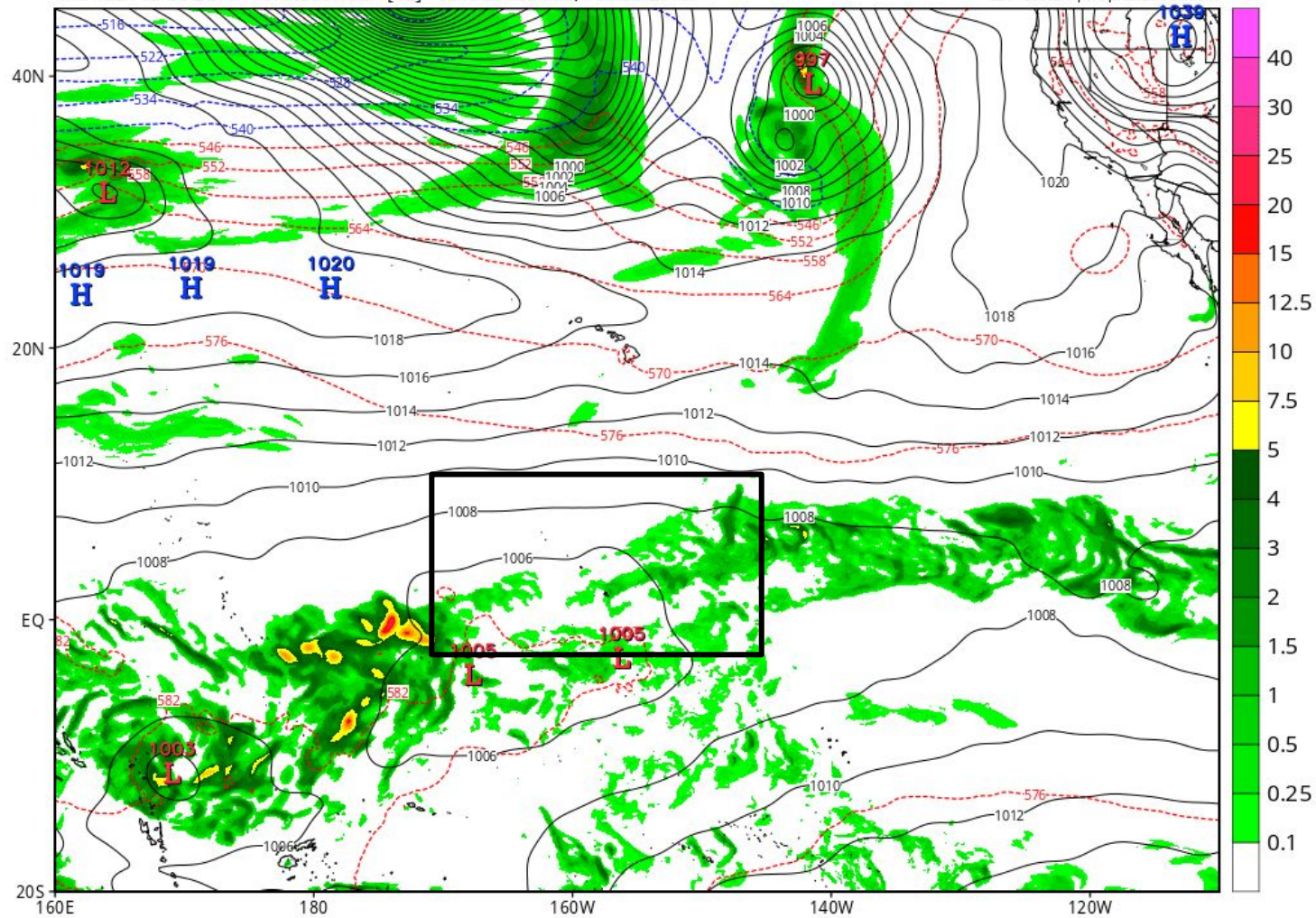
Max 30.6 in



GFS 6-hour Averaged Precip Rate (mm/hr), MSLP (hPa) & 1000-500mb Thickness (dam)

Init: 12z Feb 08 2016 Forecast Hour: [12] valid at 00z Tue, Feb 09 2016

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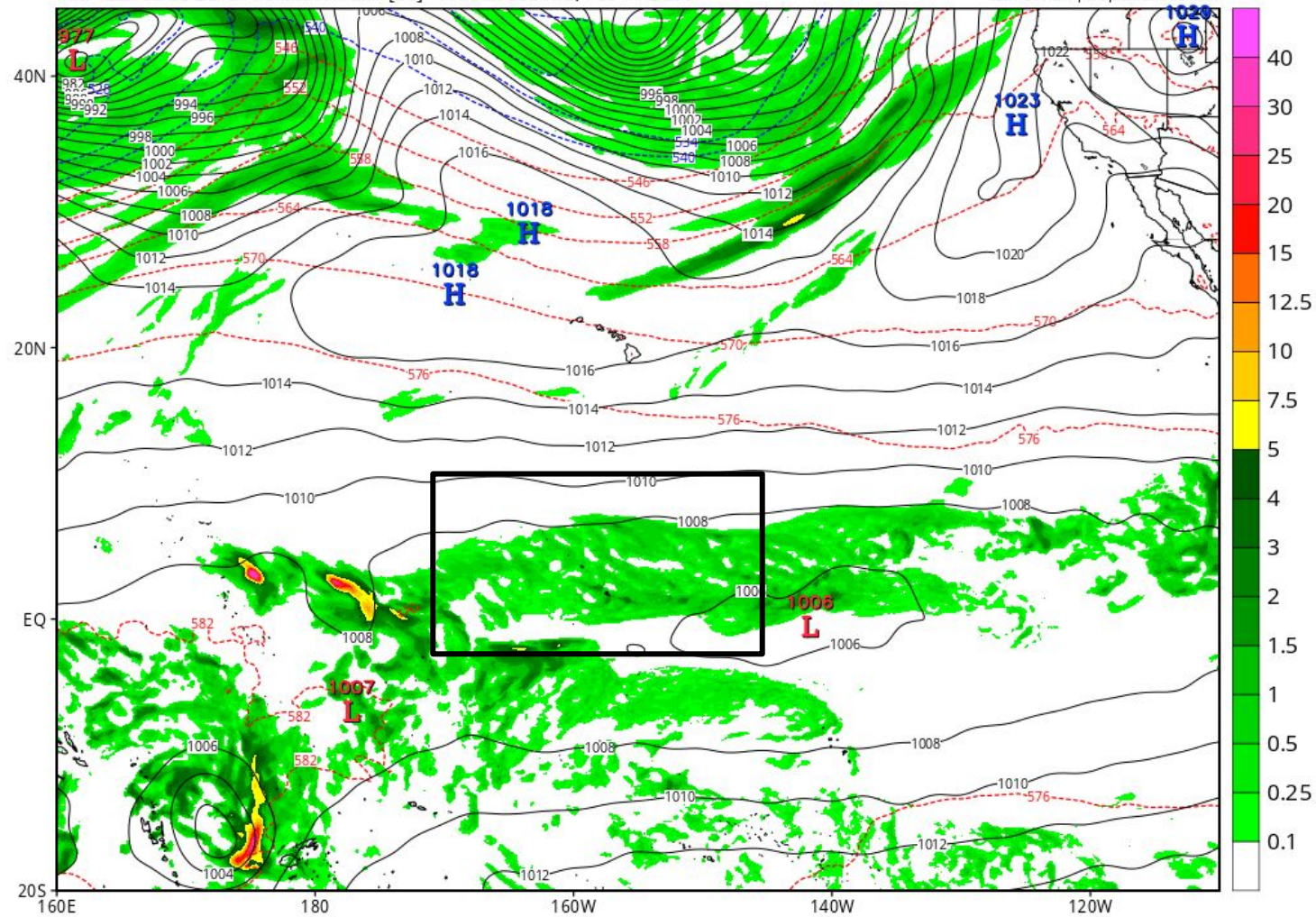
Init: 12z Feb 08 2016 Forecast Hour: [36] valid at 00z Wed, Feb 10 2016

Figure 1 is a map of the tropical Pacific region, showing sea level pressure (SLP) contours, wind vectors, and rainfall intensity. The map covers the area from 20°S to 40°N latitude and 120°E to 120°W longitude. High-pressure systems (H) are labeled over the North Pacific and the South Pacific. Low-pressure systems (L) are labeled over the equatorial Pacific. A black box highlights a region of interest in the central equatorial Pacific. A color bar on the right indicates rainfall intensity in mm day⁻¹, ranging from 0.1 to 40.

GFS 6-hour Averaged Precip Rate (mm/hr), MSLP (hPa) & 1000-500mb Thickness (dam)

Init: 12z Feb 08 2016 Forecast Hour: [60] valid at 00z Thu, Feb 11 2016

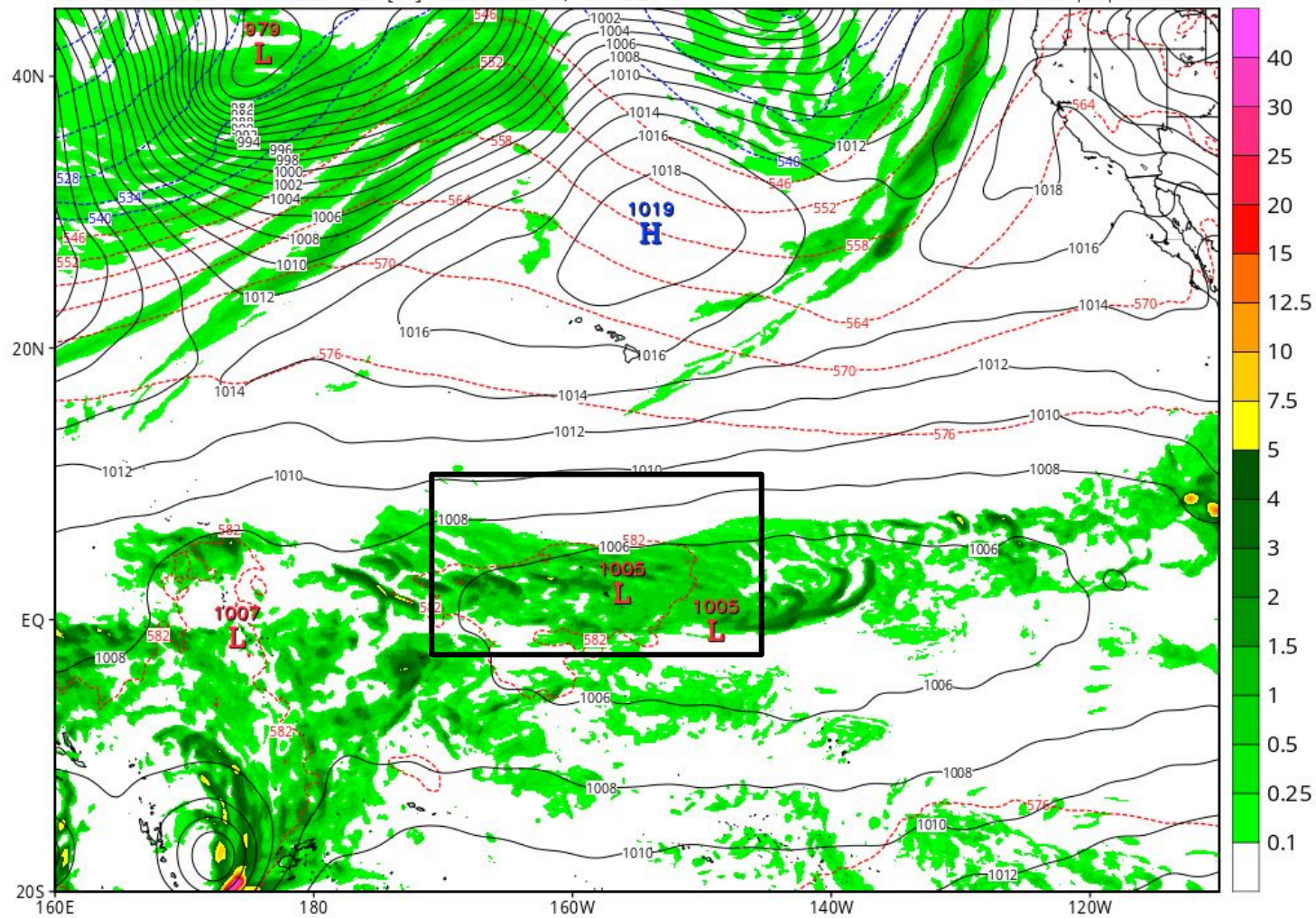
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GFS 6-hour Averaged Precip Rate (mm/hr), MSLP (hPa) & 1000-500mb Thickness (dam)

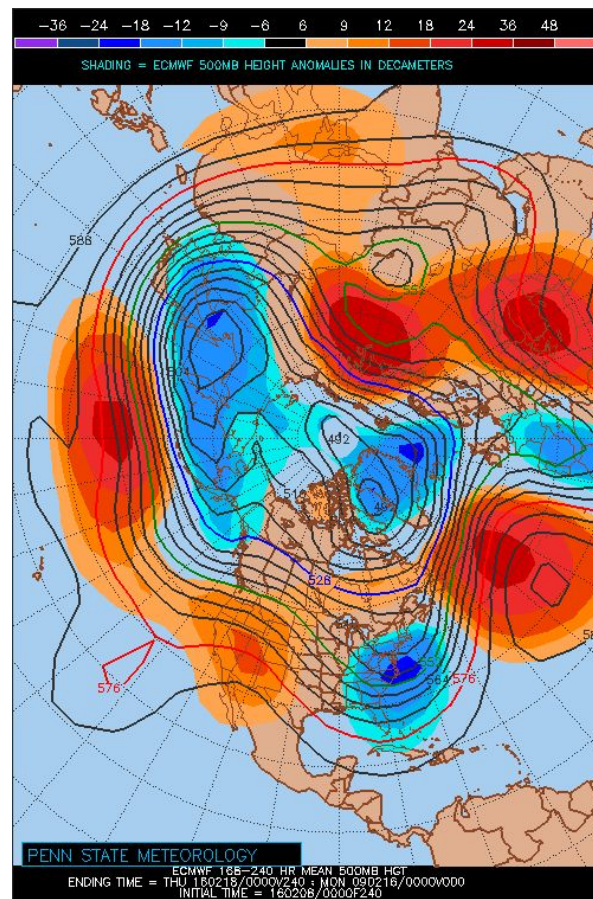
Init: 12z Feb 08 2016 Forecast Hour: [84] valid at 00z Fri, Feb 12 2016

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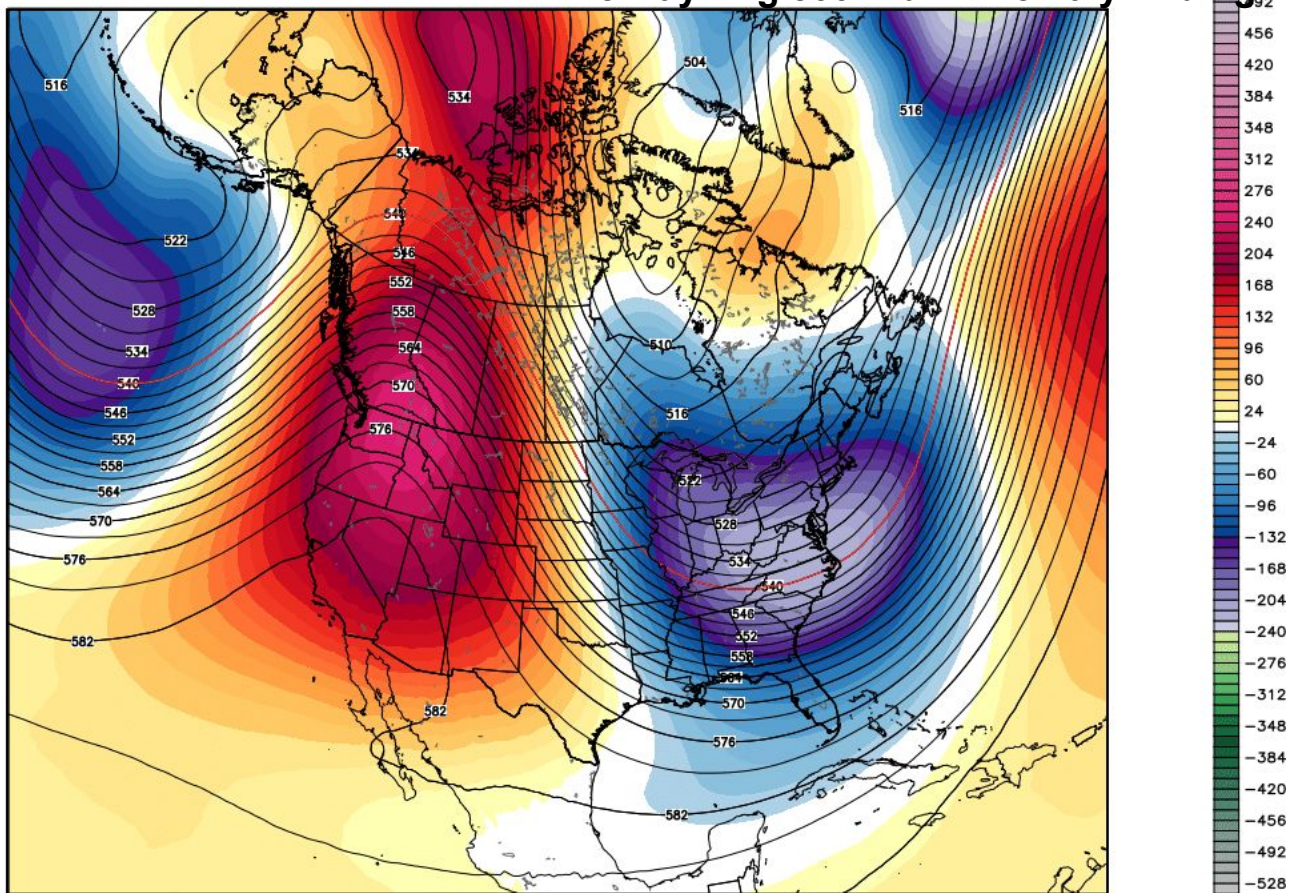
Medium - Long Range Forecast

Day 7-10 Initialized 00Z MON 8 Feb



ECMWF 500 hPa Geopotential Height [dm] & Anomaly [m] fx: [120] hr --> Sat 00Z13FEB2016
INIT: 00Z08FEB2016 5-day Mean between 00Z08FEB2016 & 00Z13FEB2016 Day 0 = Day 5

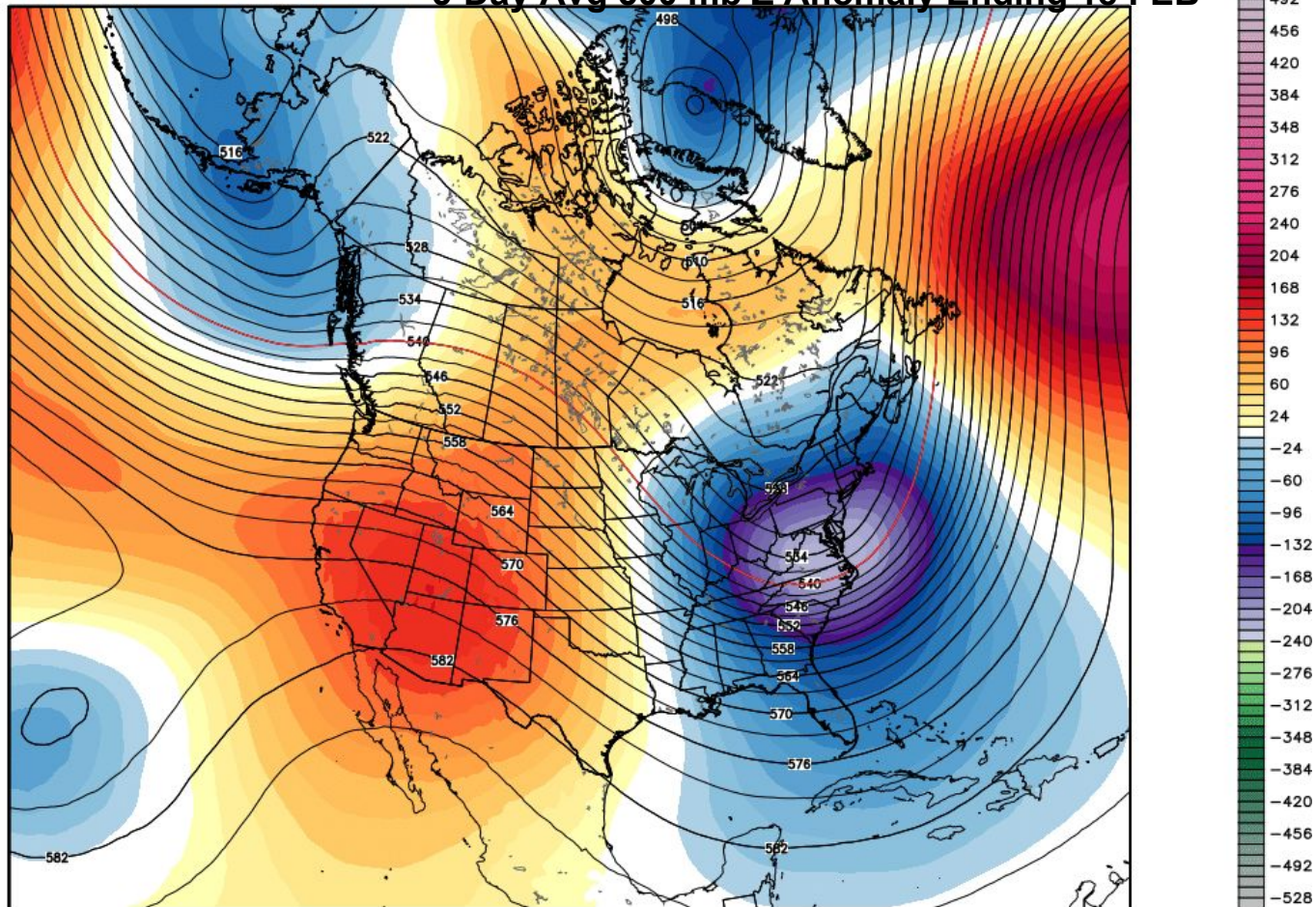
5-Day Avg 500 mb Z Anomaly Ending 13 FEB



-313 | 258 m

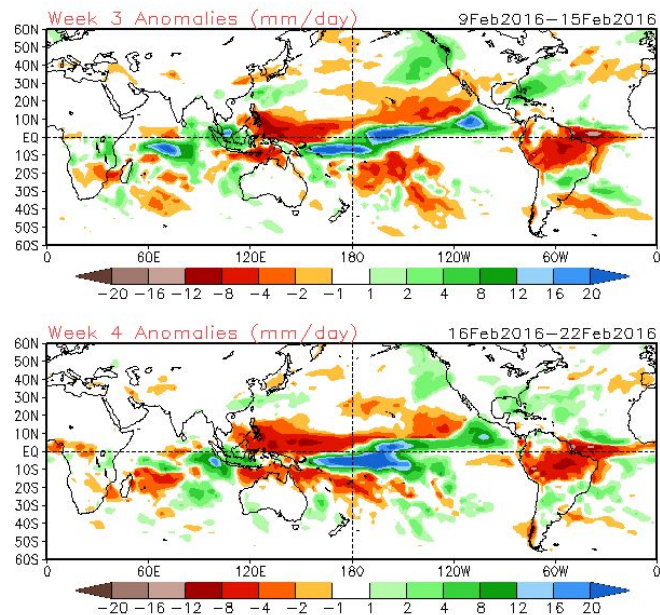
ECMWF 500 hPa Geopotential Height [dm] & Anomaly [m] fx: [240] hr --> Thu 00Z18FEB2016
INIT: 00Z08FEB2016 5-day Mean between 00Z13FEB2016 & 00Z18FEB2016 Day 5 - Day 10

5-Day Avg 500 mb Z Anomaly Ending 18 FEB

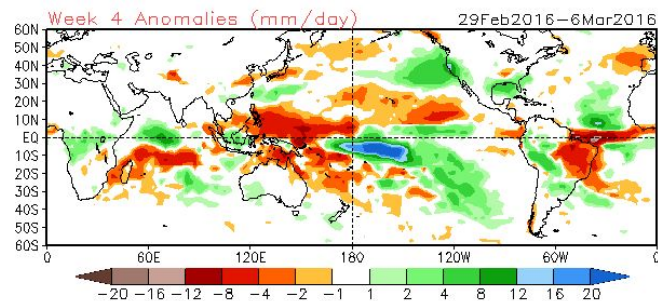
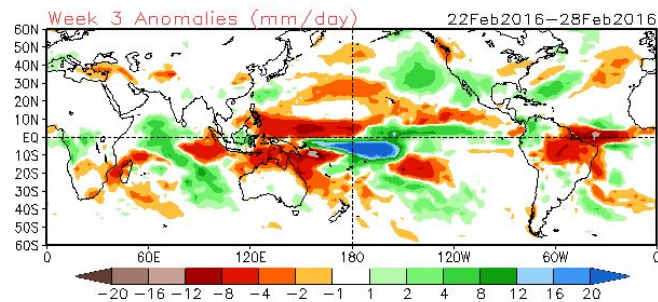


-368 | 365 m

CFSv2 Weeks 3 & 4 Precipitation
16 Member Ensemble Mean Forecast from 25Jan2016



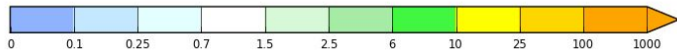
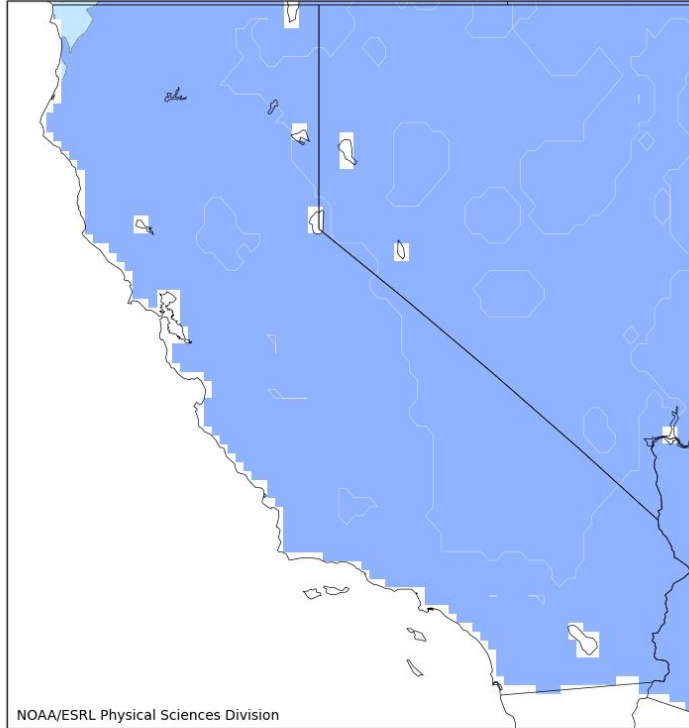
CFSv2 Weeks 3 & 4 Precipitation
16 Member Ensemble Mean Forecast from 07Feb2016



Medium - Long Range Forecast

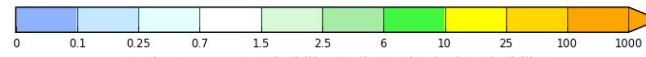
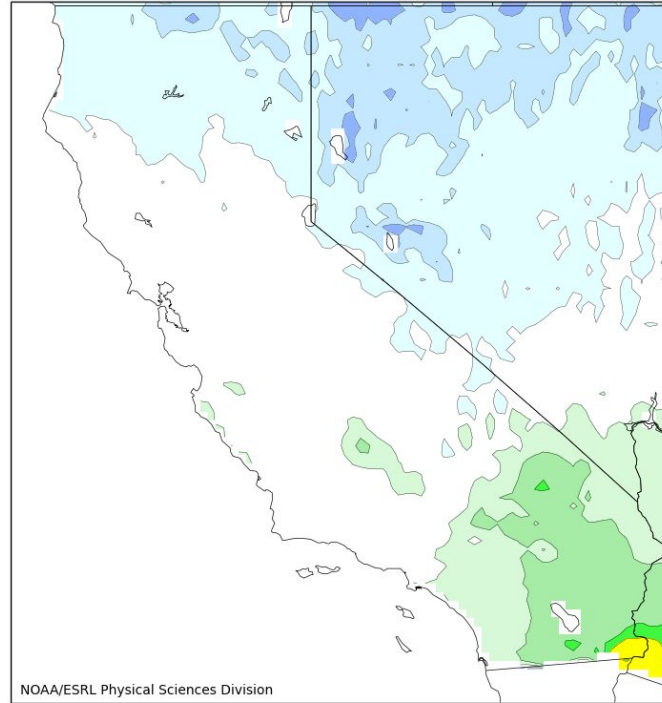
ESRL-Calibrated Reforecast Pcpn : Day 0-7 and 8-15 Day Fcst *(from the 00Z MON 8 FEB ensembles of the experimental reforecast system)*

000-168hr fcst from 00Z Mon Feb 08. Valid 00Z Mon Feb 08 - 00Z Mon Feb 15
Ratio. Forecast/Climo Prob of Precip > 50mm. CSGD.



Ratio: Forecast Probability / Climatological Probability

198-360hr fcst from 00Z Mon Feb 08. Valid 06Z Tue Feb 16 - 00Z Tue Feb 23
Ratio. Forecast/Climo Prob of Precip > 50mm. CSGD.



Ratio: Forecast Probability / Climatological Probability