

Summary of Key Briefing Points

1030-1130am MST Sat Feb 13, 2016

Current Conditions as of Sat 12Z-15Z February 13

Tropics and Mid-latitudes

Over the Tropical Pacific:

- Convection: An active isolated area of convection (150W-145W, 0-3N) this morning.
- Considerable cloud debris in FD this morning, residual of yesterday's convection
- Continued upper level winds 20-30kt NW winds across the east portion of FD today, to EQ
- Upper level anticyclonic circulation centered 5N, 165W
- Some stabilization of airmass in SW portion of FD: CIX Sounding 1700J Cape this morning

Tropical Outlook

- GFS EC models indicate convection to be active in the eastern portion of domain today.
- Sunday convection to be most probably in the southern/southwest portion of FD
- Convection in the FD gradually increases in coverage, during Mon-Wed period
- Subtropical convection associated with cutoff low has developed Sat 15N, 130W
- Moisture feed from the subtropical low into developing CA storm Tues next week.

Midlatitude Conditions/Outlook

Short Term:

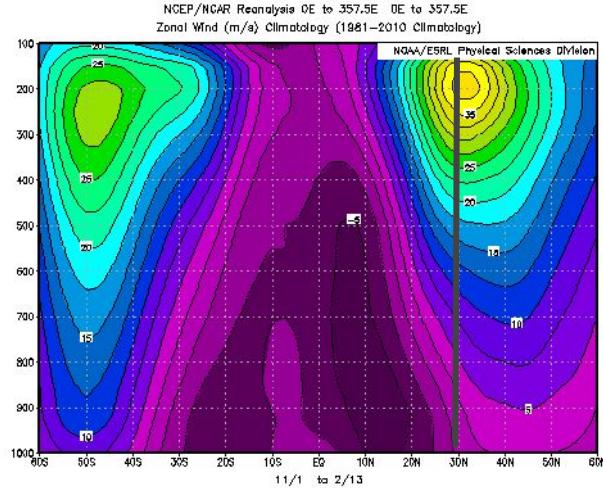
- CA to be mostly dry through Tuesday 16 Feb

Medium - Long Term:

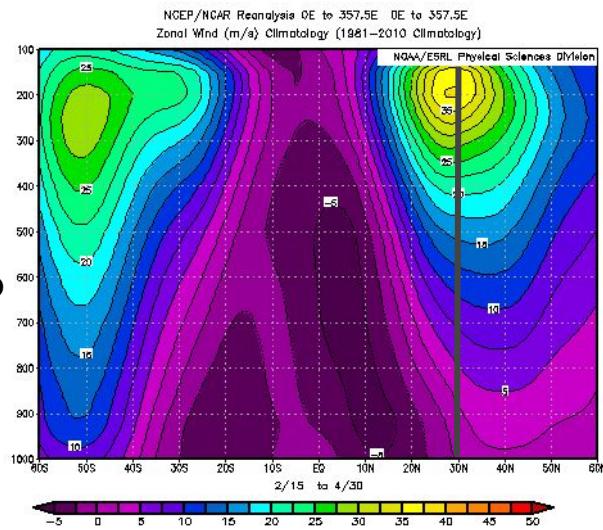
- Day 0-4 accumulated pcpn for CA shows little pcpn
- EC/GFS indicate storm for CA rains Wednesday night/Thur morning
- Model disagreement on rainn for sCAO on Thur (EC has up to 1" totals in portions of SCAL)
- Indications for strong interaction of equatorial eastcentral convection, subtropical jet and WCOAST storm for Mon-Wednesday
- Second storm for following weekend, aimed more toward Pacific NW

The Curious Incident of the Zonal Mean Zonal Wind in 2016

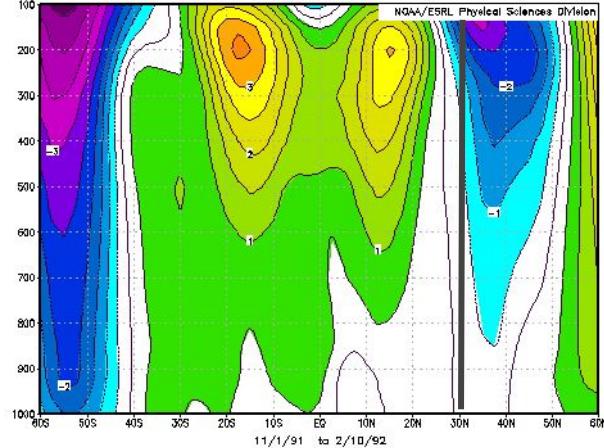
Zonal Mean U
Nov 1- Feb 13 Climo



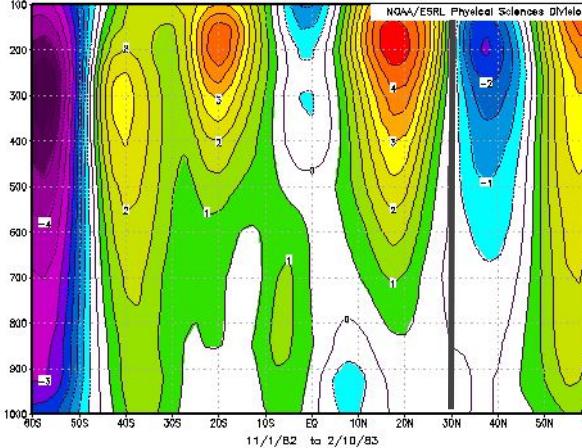
Zonal Mean U
Feb 15 - Apr 30 Climo



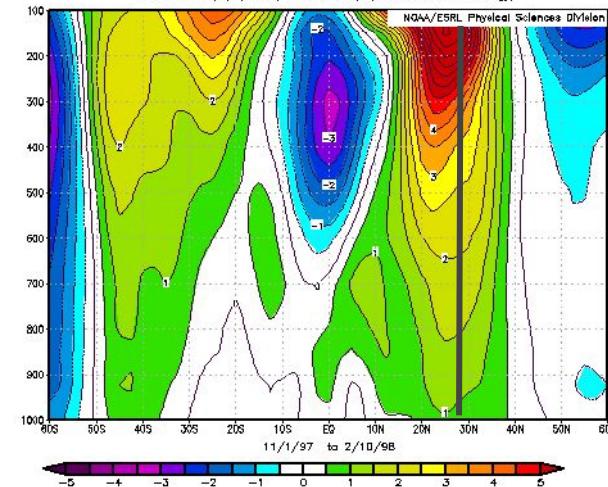
1992 NCEP/NCAR Reanalysis OE to 357.5E
Zonal Wind (m/s) Composite Anomaly (1981–2010 Climatology)



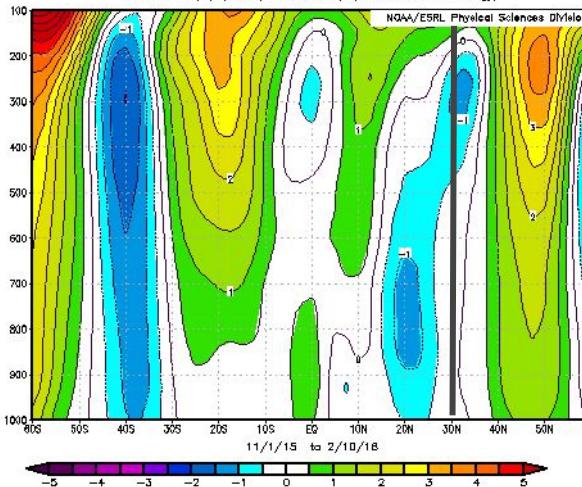
1983 NCEP/NCAR Reanalysis OE to 357.5E
Zonal Wind (m/s) Composite Anomaly (1981–2010 Climatology)



1998 NCEP/NCAR Reanalysis OE to 357.5E
Zonal Wind (m/s) Composite Anomaly (1981–2010 Climatology)

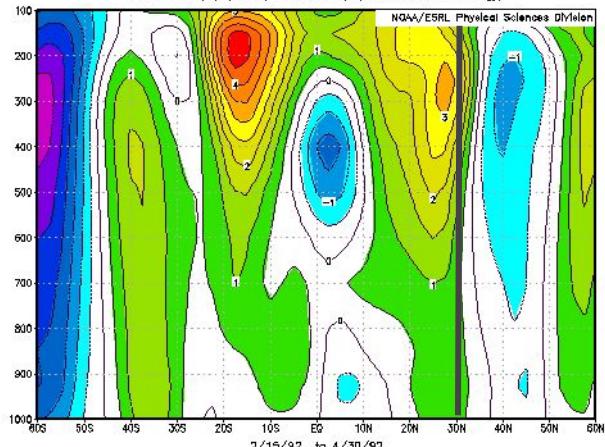


2016 NCEP/NCAR Reanalysis OE to 357.5E
Zonal Wind (m/s) Composite Anomaly (1981–2010 Climatology)



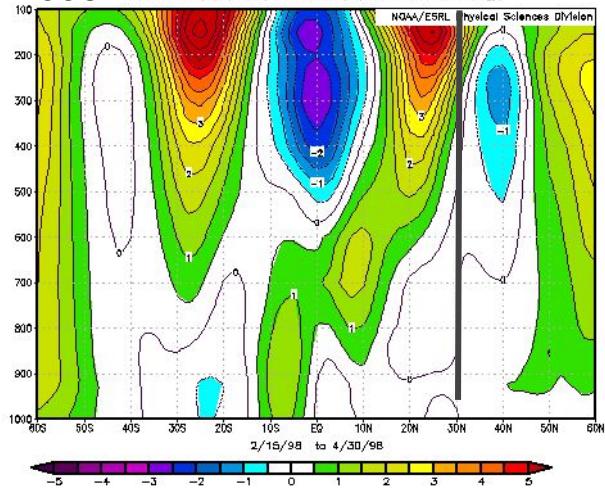
1992

NCEP/NCAR Reanalysis 0E to 357.5E
Zonal Wind (m/s) Composite Anomaly (1981–2010 Climatology)



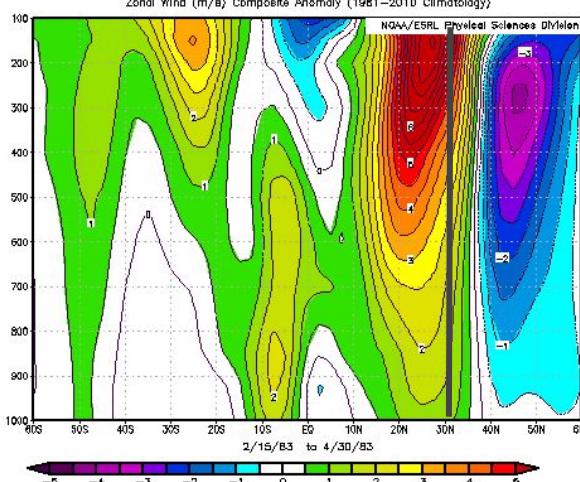
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Zonal Wind (m/s) Composite Anomaly (1981–2010 Climatology)

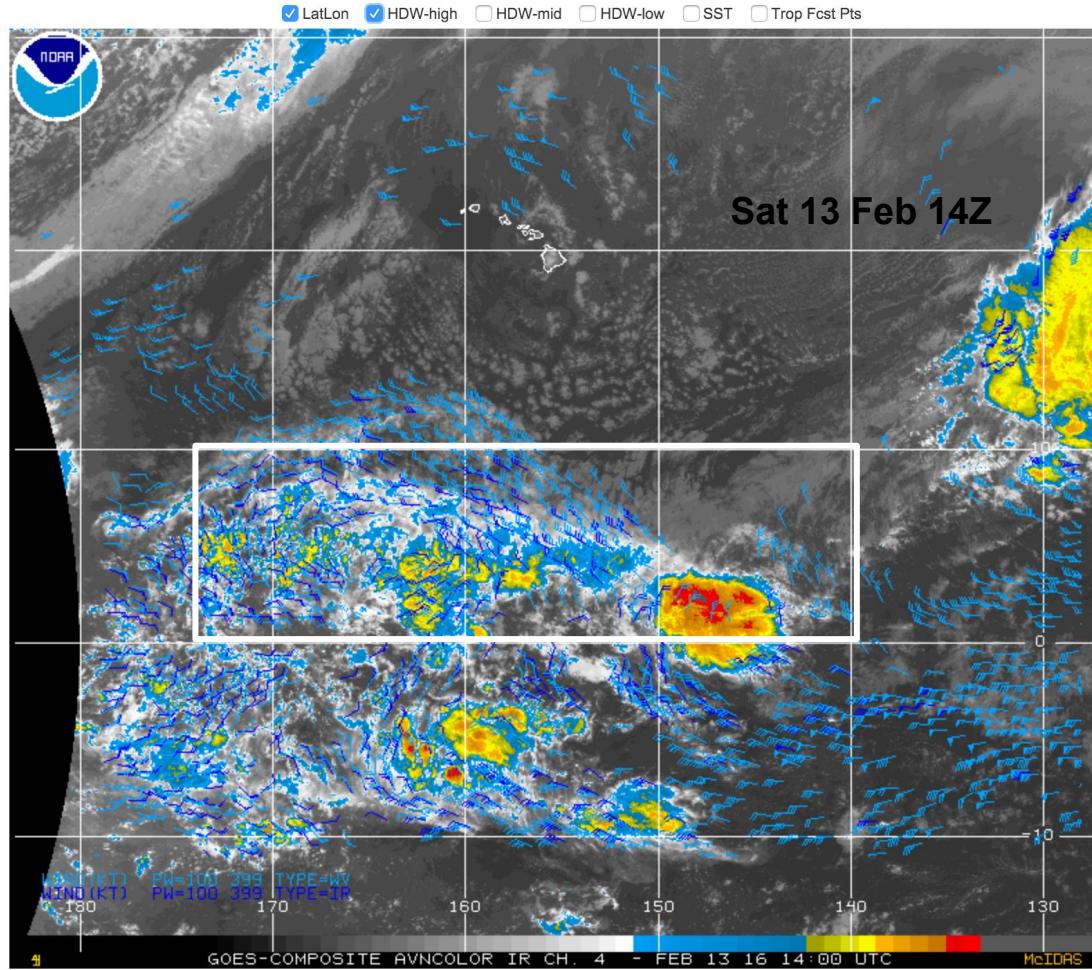


1983

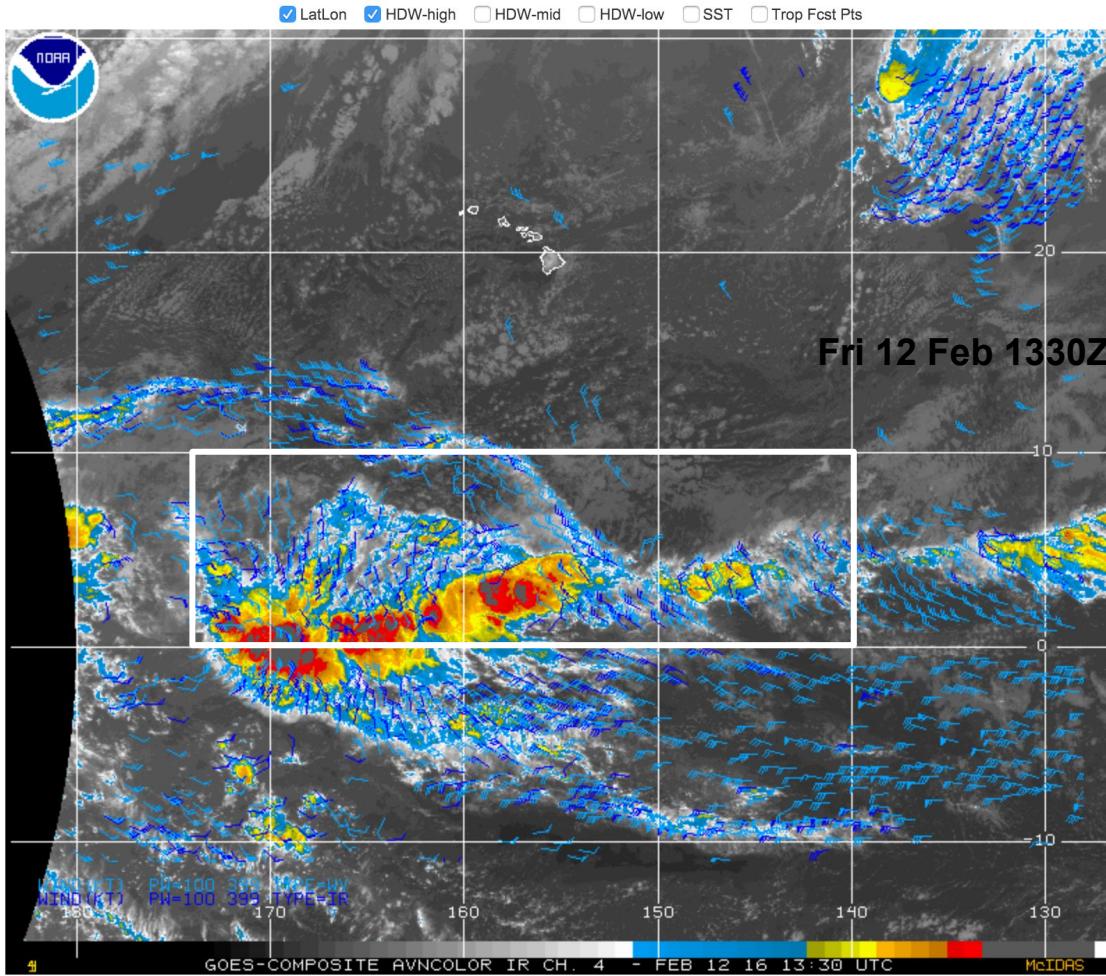
NCEP/NCAR Reanalysis 0E to 357.5E
Zonal Wind (m/s) Composite Anomaly (1981–2010 Climatology)



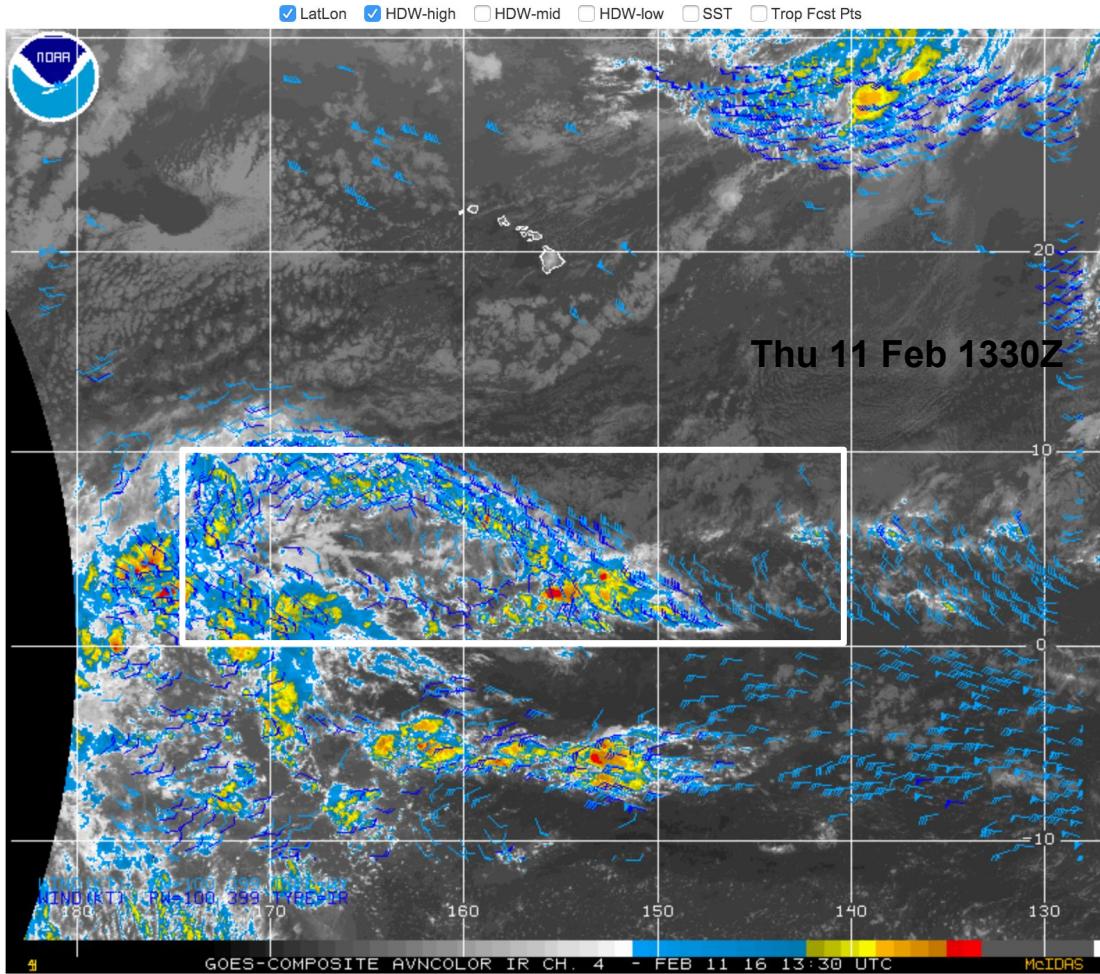
GOES Composite - El Niño Support – AVN Color Infrared Loop



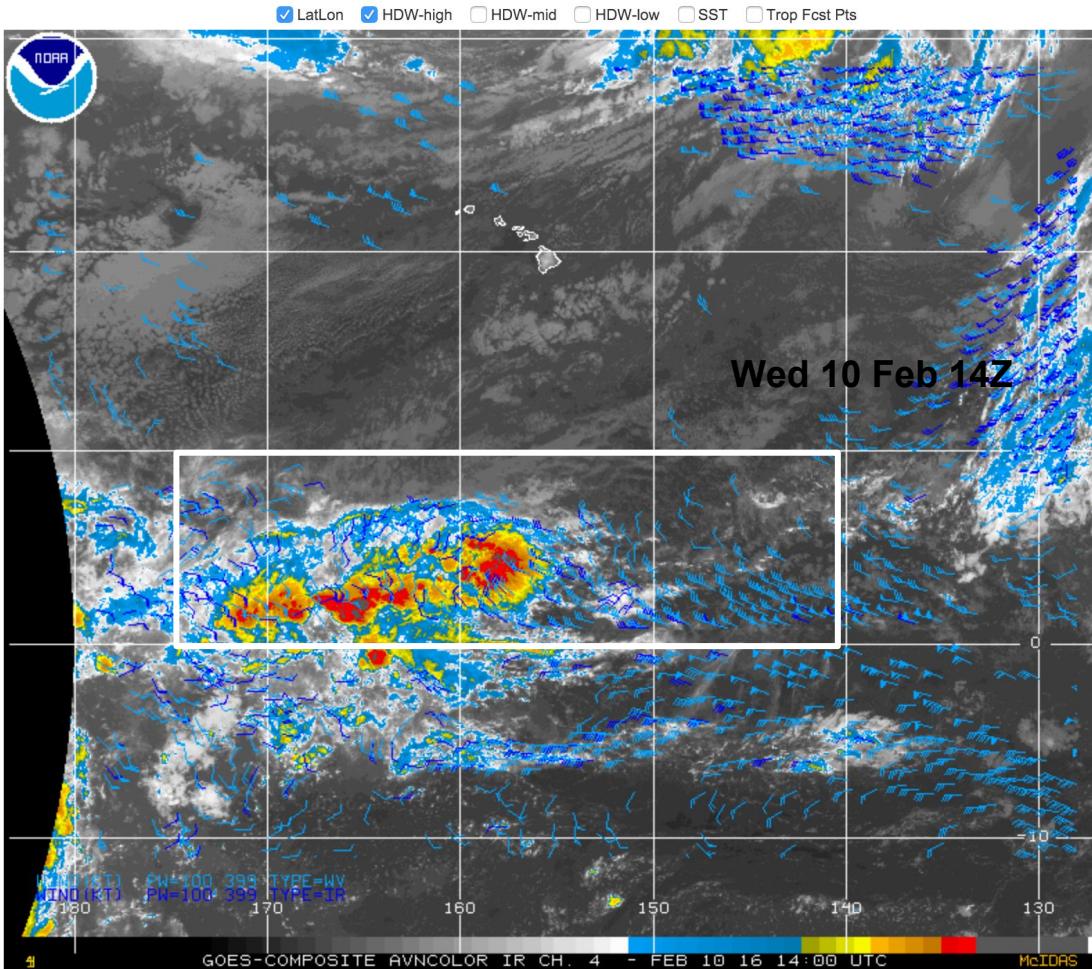
GOES Composite - El Niño Support – AVN Color Infrared Loop



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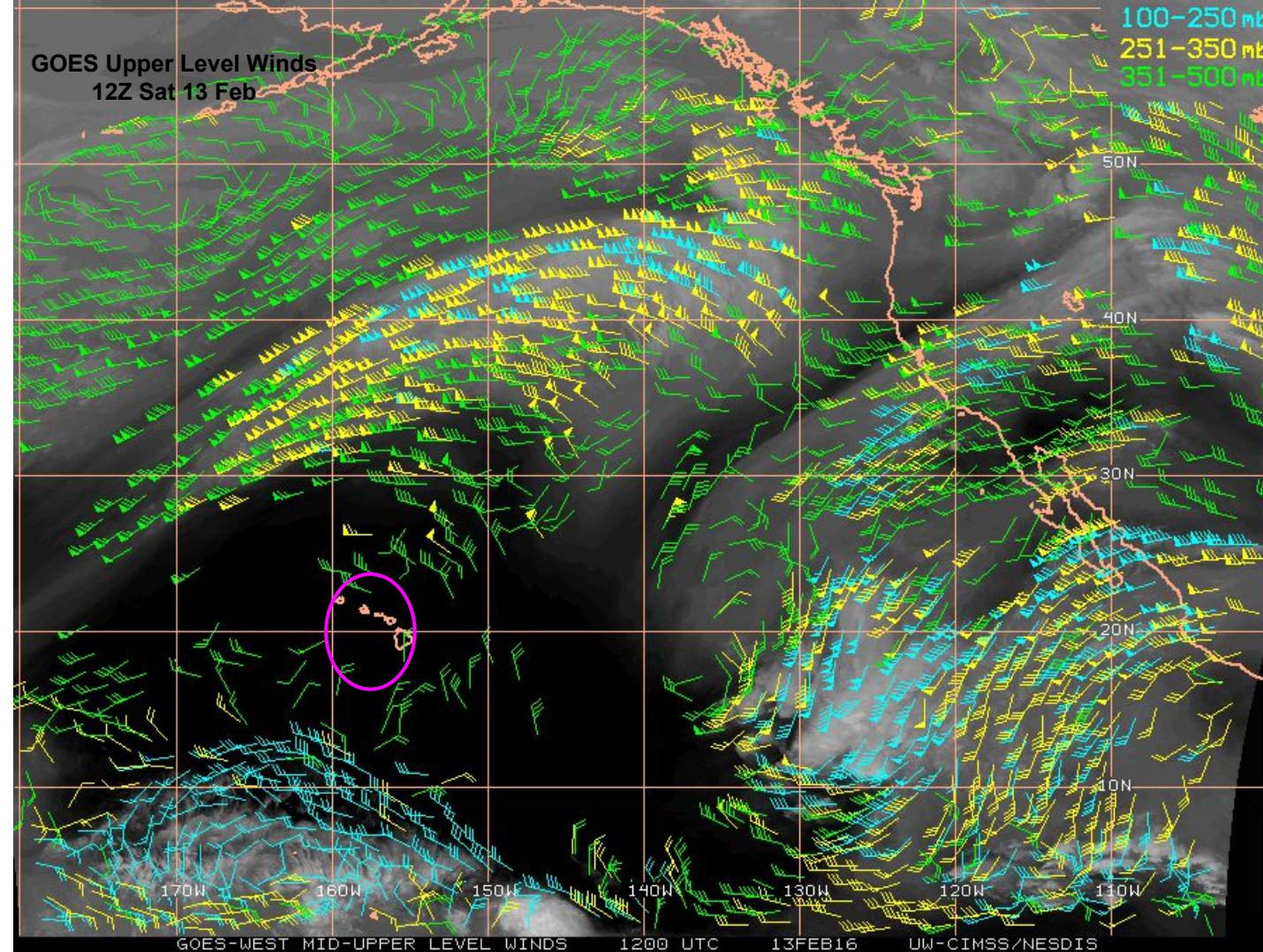
GOES Composite - El Niño Support – AVN Color Infrared Loop



GOES Upper Level Winds

12Z Sat 13 Feb

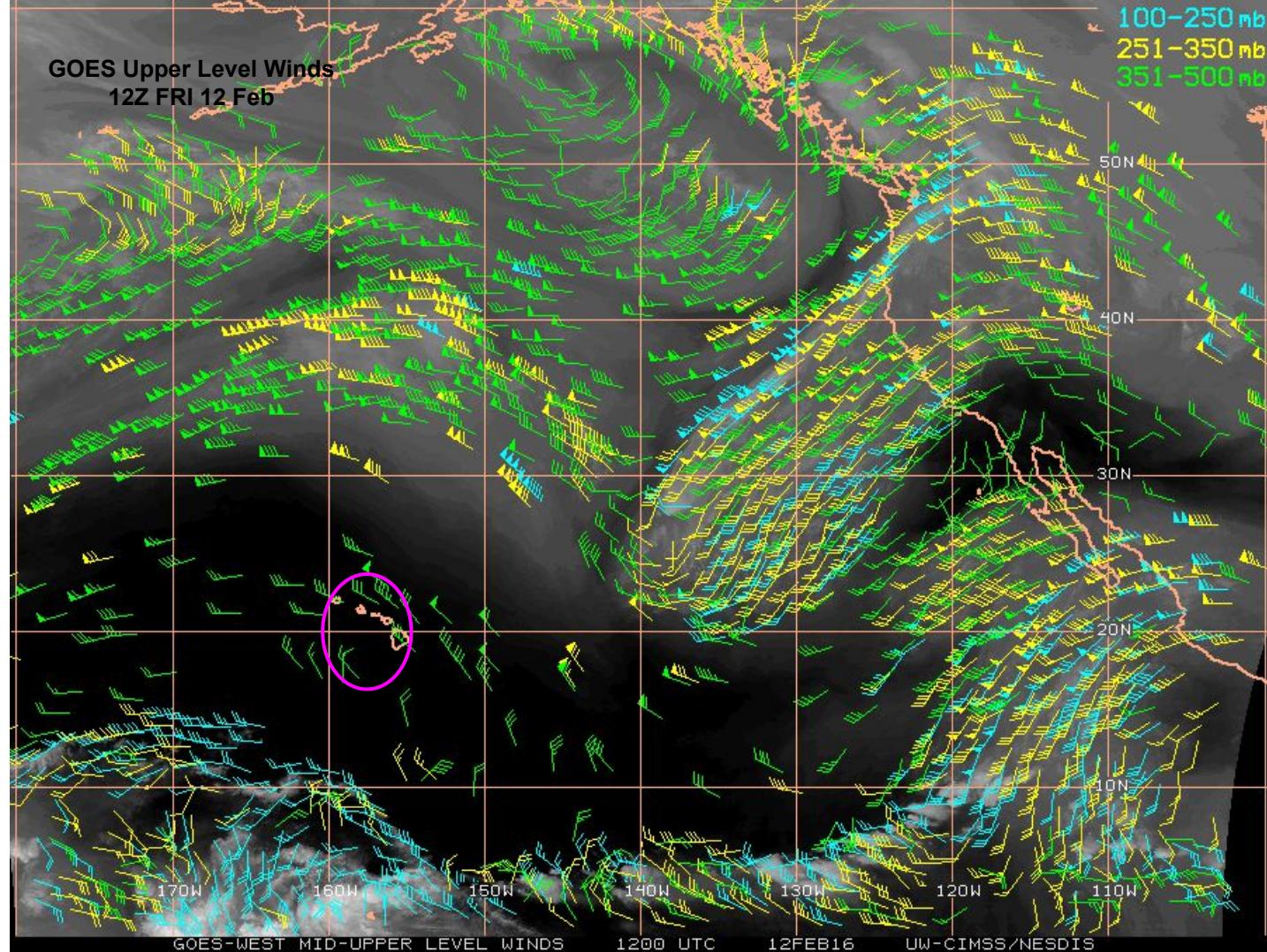
100-250 mb
251-350 mb
351-500 mb



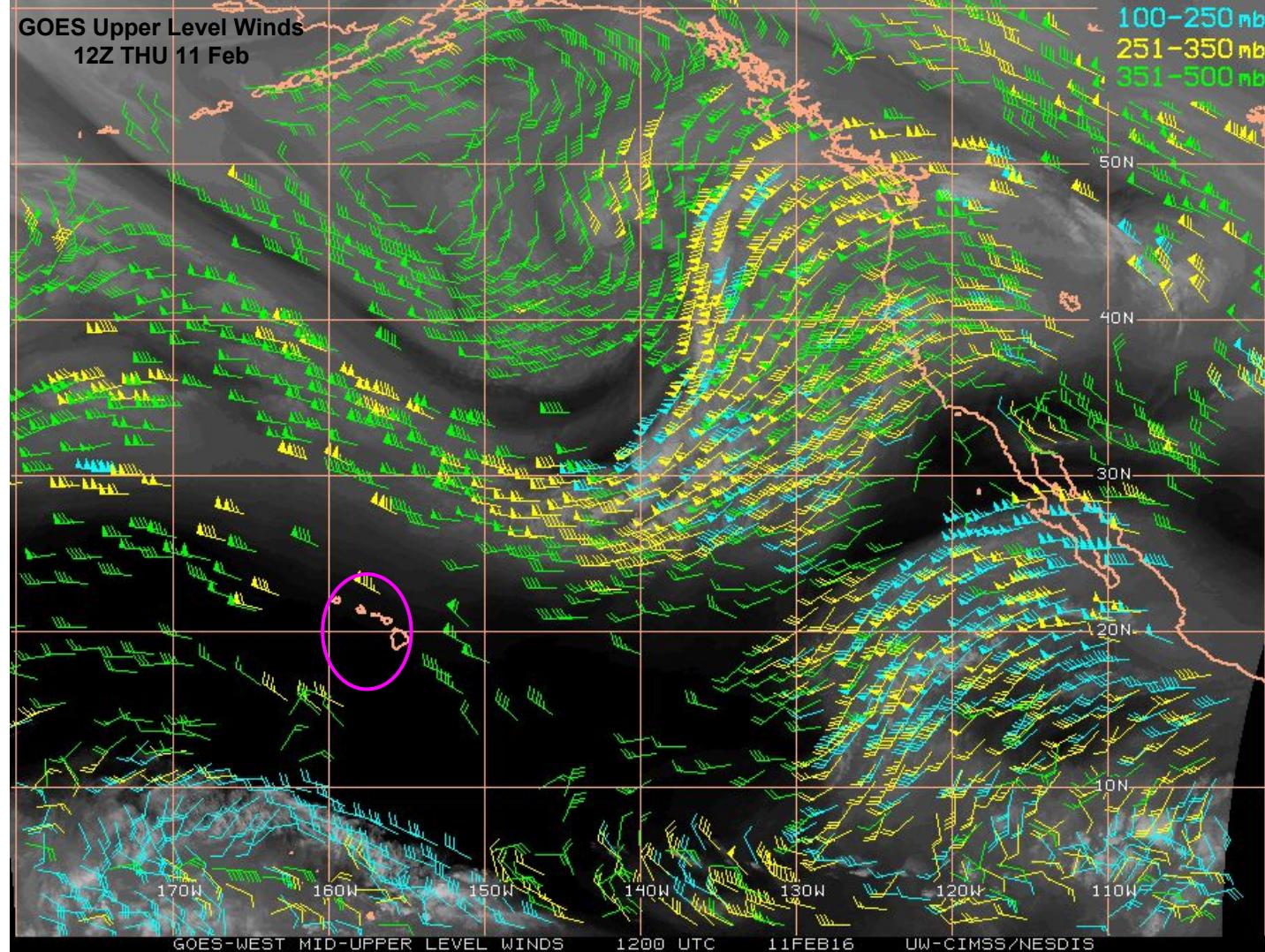
GOES Upper Level Winds

12Z FRI 12 Feb

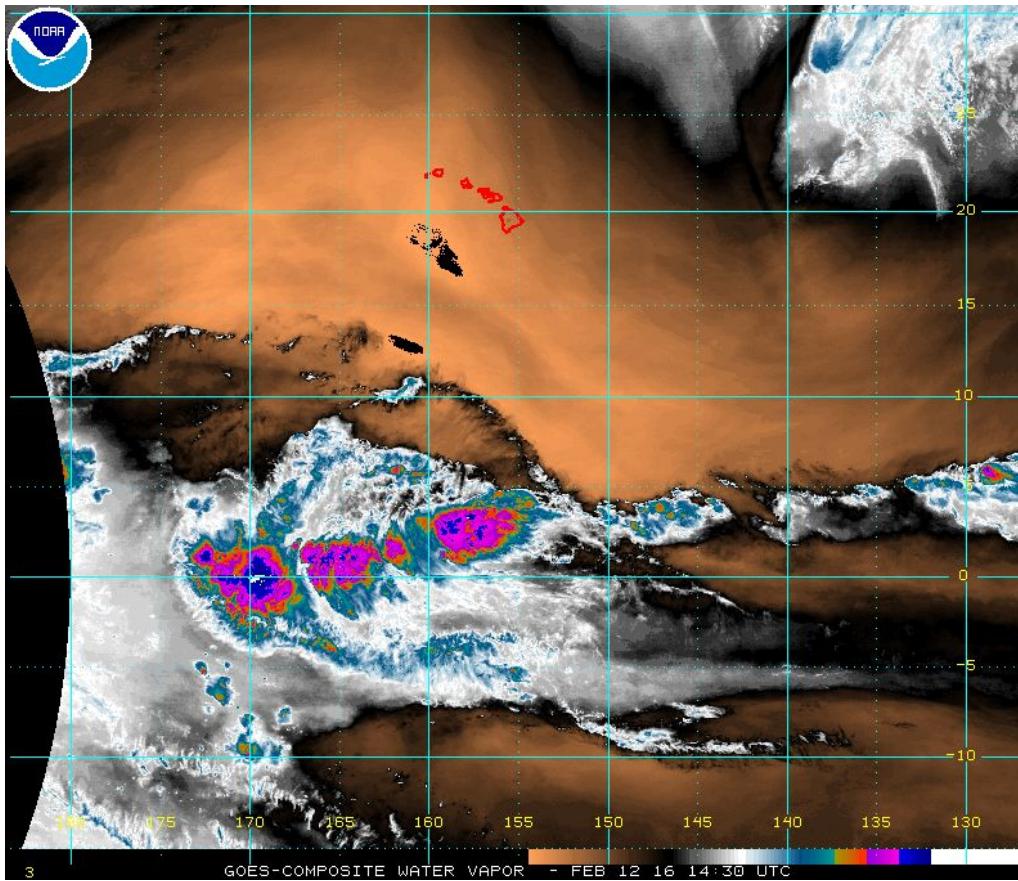
100-250 mb
251-350 mb
351-500 mb



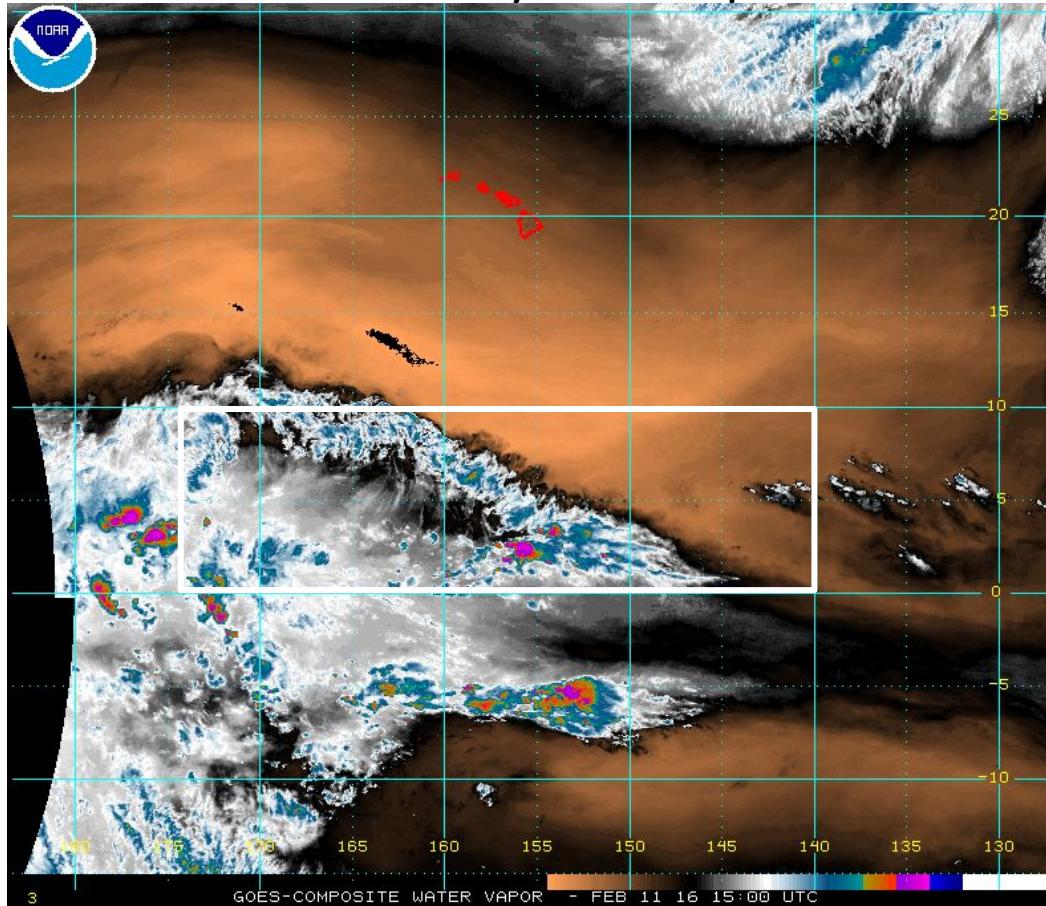
GOES Upper Level Winds
12Z THU 11 Feb



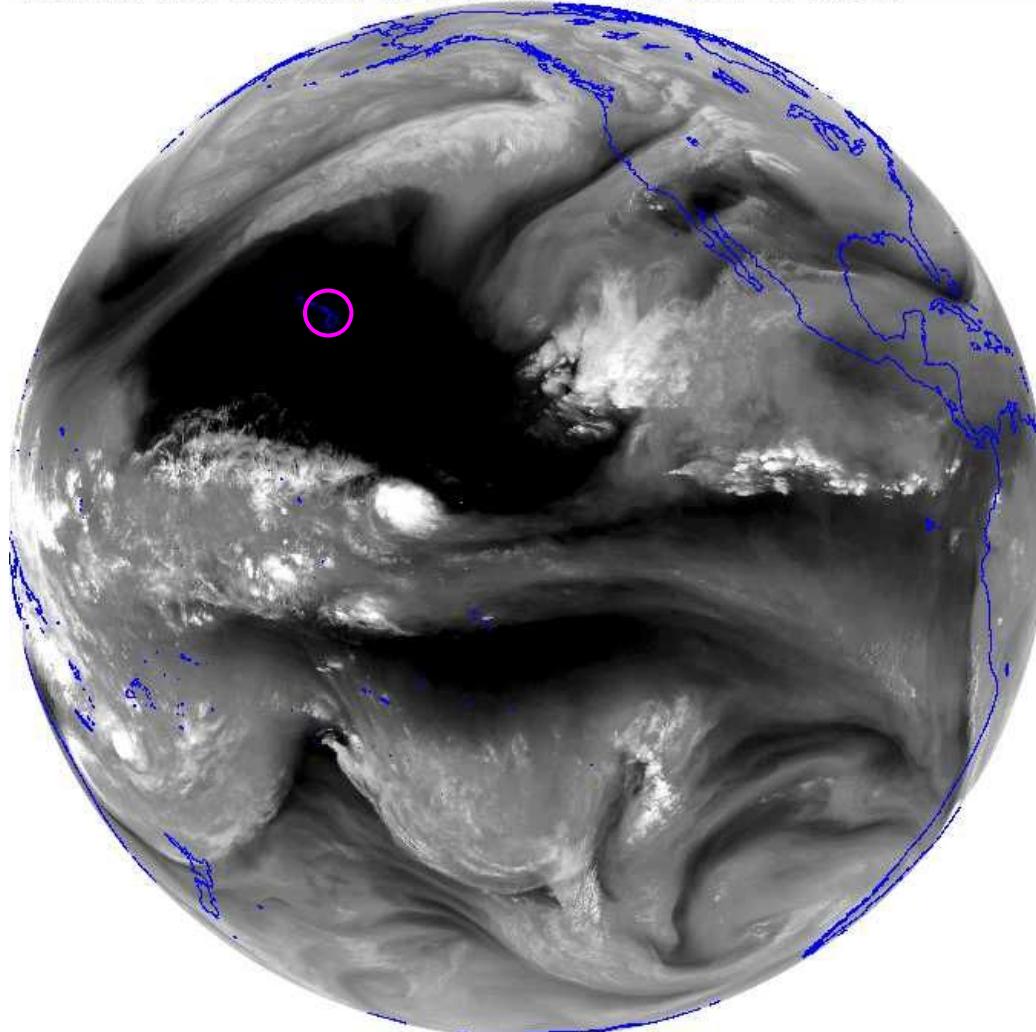
FRI 1430Z February 12 Water Vapor



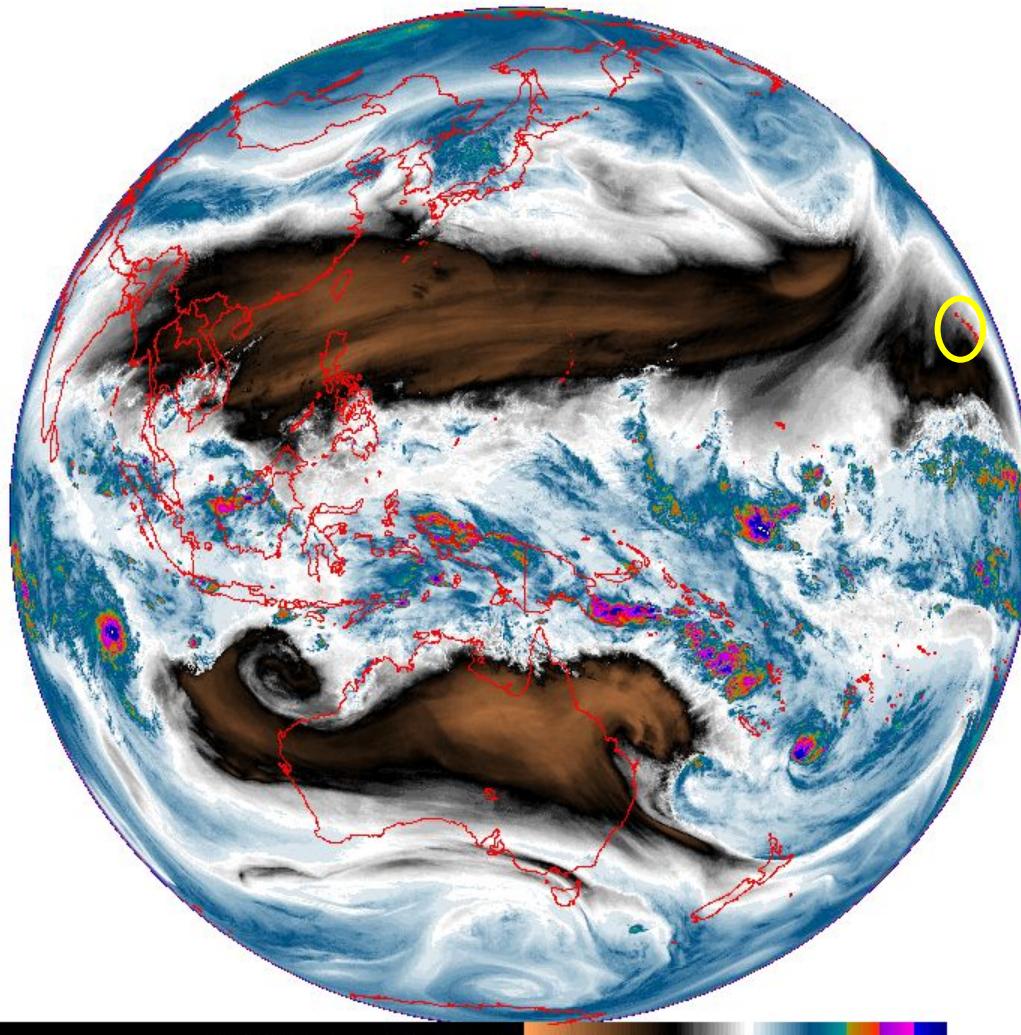
THU 15Z February 11 Water Vapor



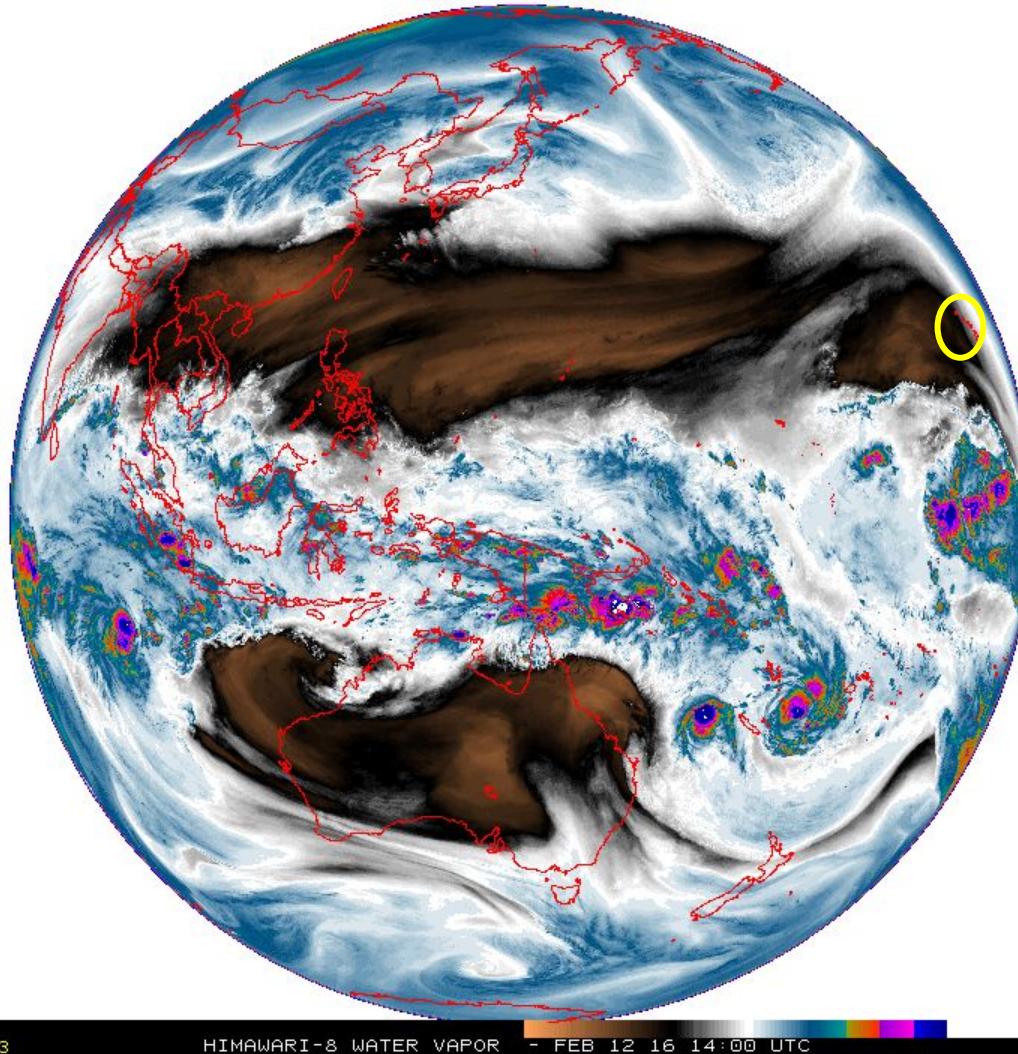
Water Vapor
12Z Sat



Sat 14Z



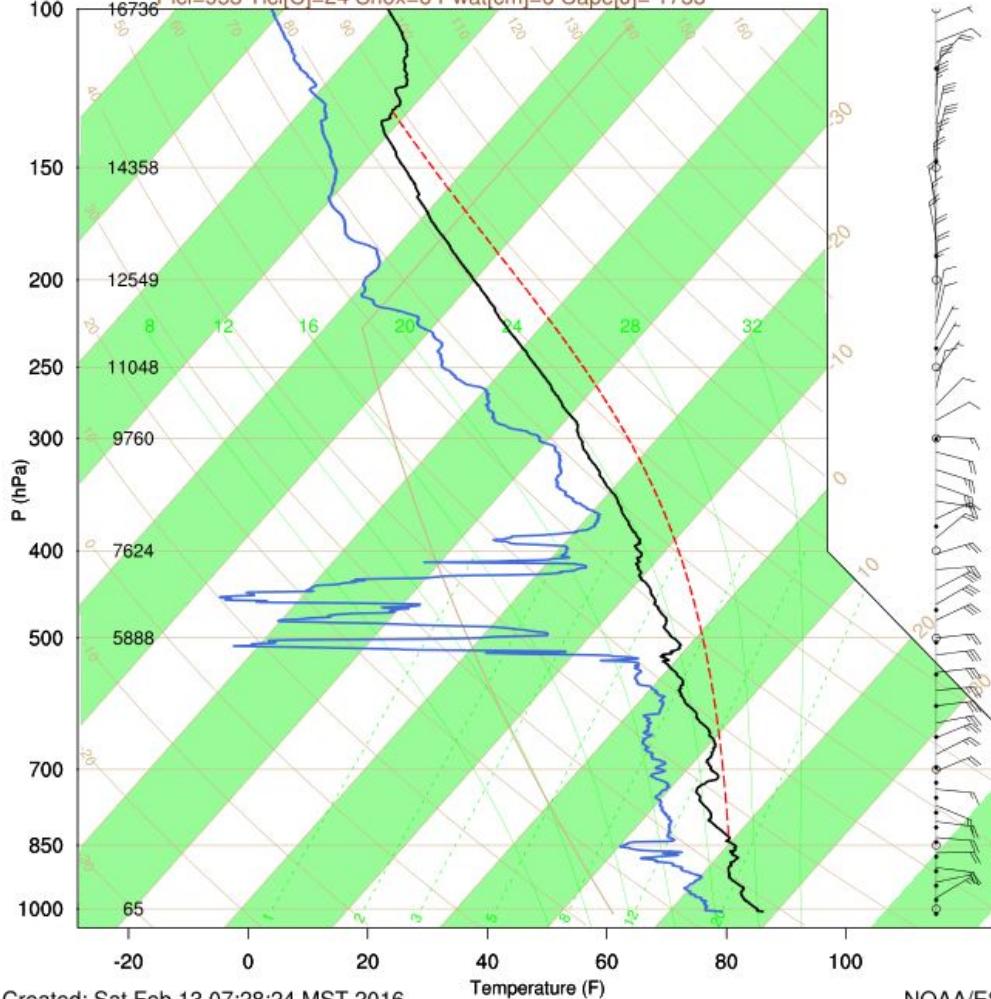
Fri 14Z



Kiritimati Is: 02/13/2016 1120Z 2.01N 157.40W

Pcl=953 TlC[C]=24 Shox=6 Pwat[cm]=6 Cape[J]= 1733

Kiritimati Sonde 1120Z Sat



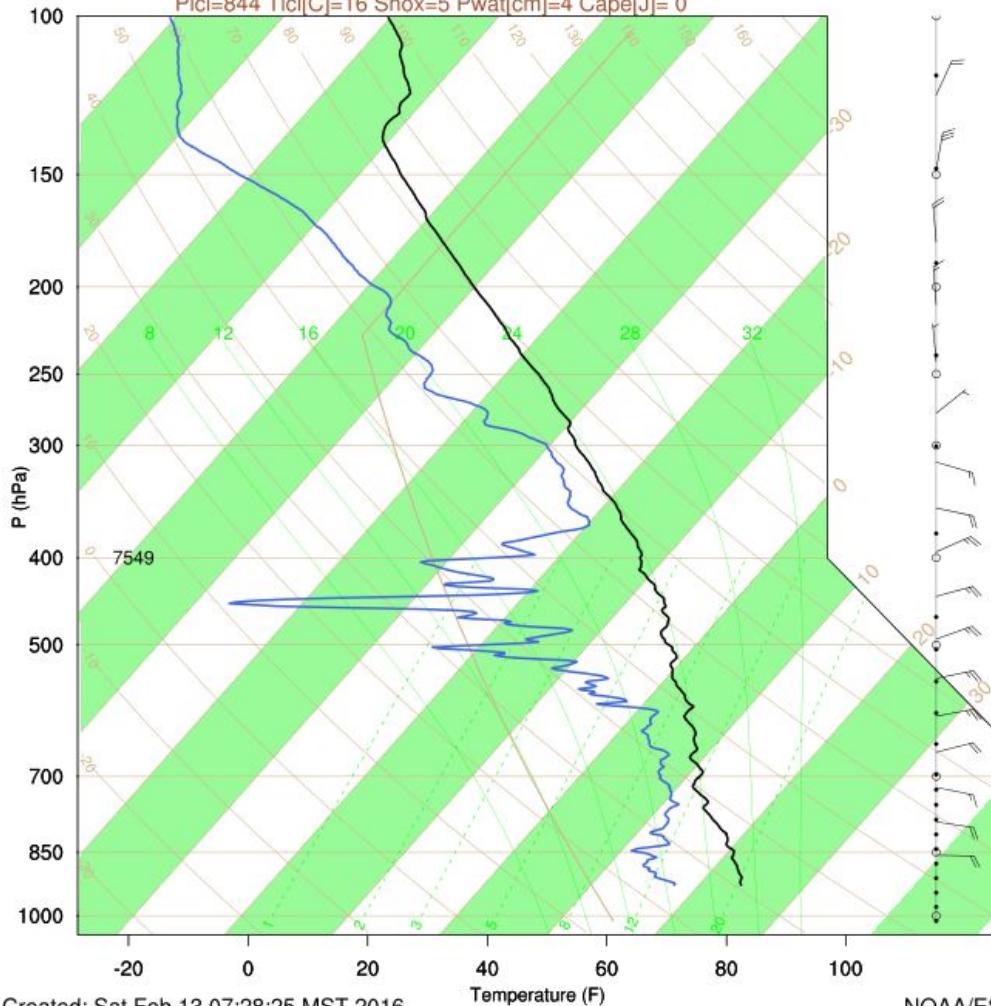
Created: Sat Feb 13 07:28:24 MST 2016

NOAA/ESRL PSD

Kiritimati Is: 02/13/2016 1120Z Downward 2.01N 157.40W

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Kiritimati Sonde 1120Z Sat



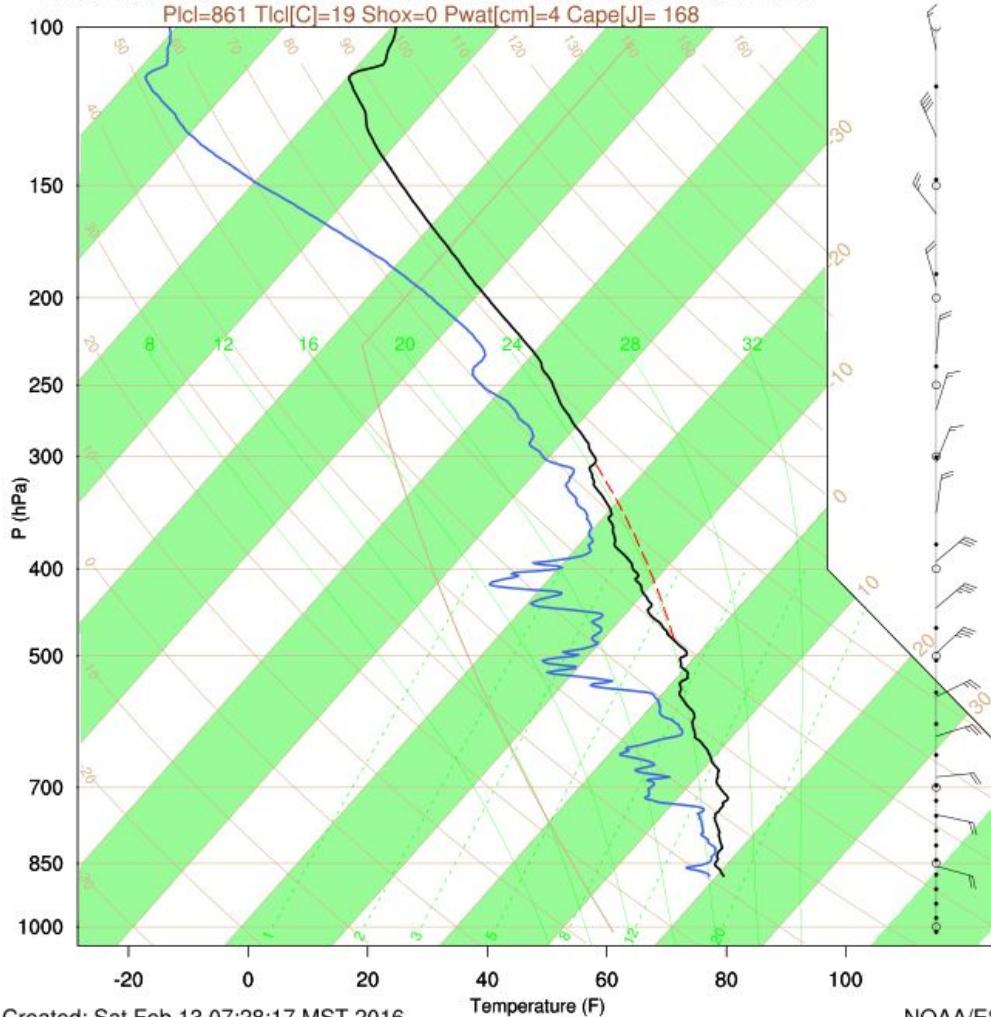
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NOAA/ESRL PSD

Kiritimati Is: 02/12/2016 1122Z Downward 2.01N 157.40W

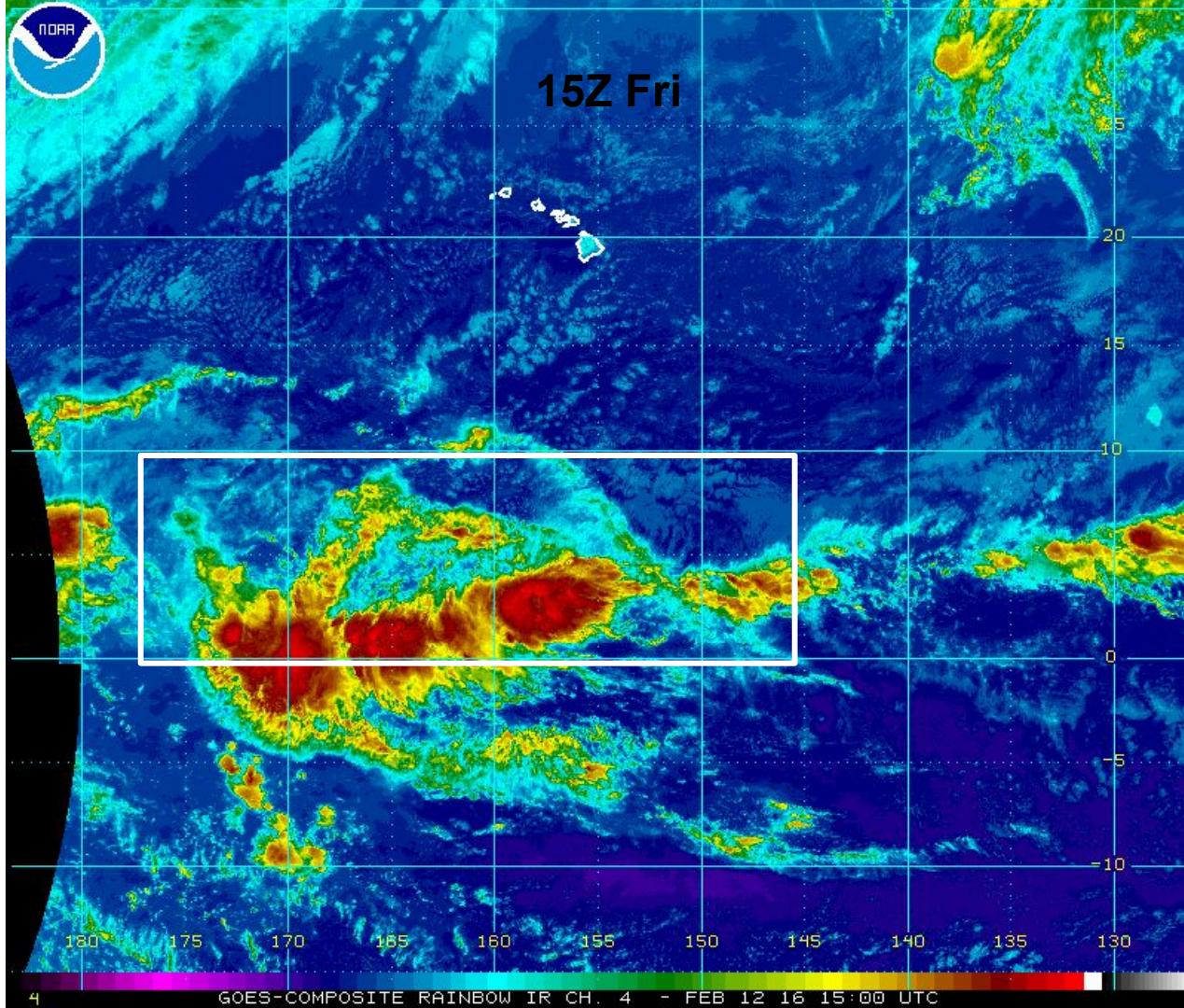
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Kiritimati Sonde 1122Z Fri



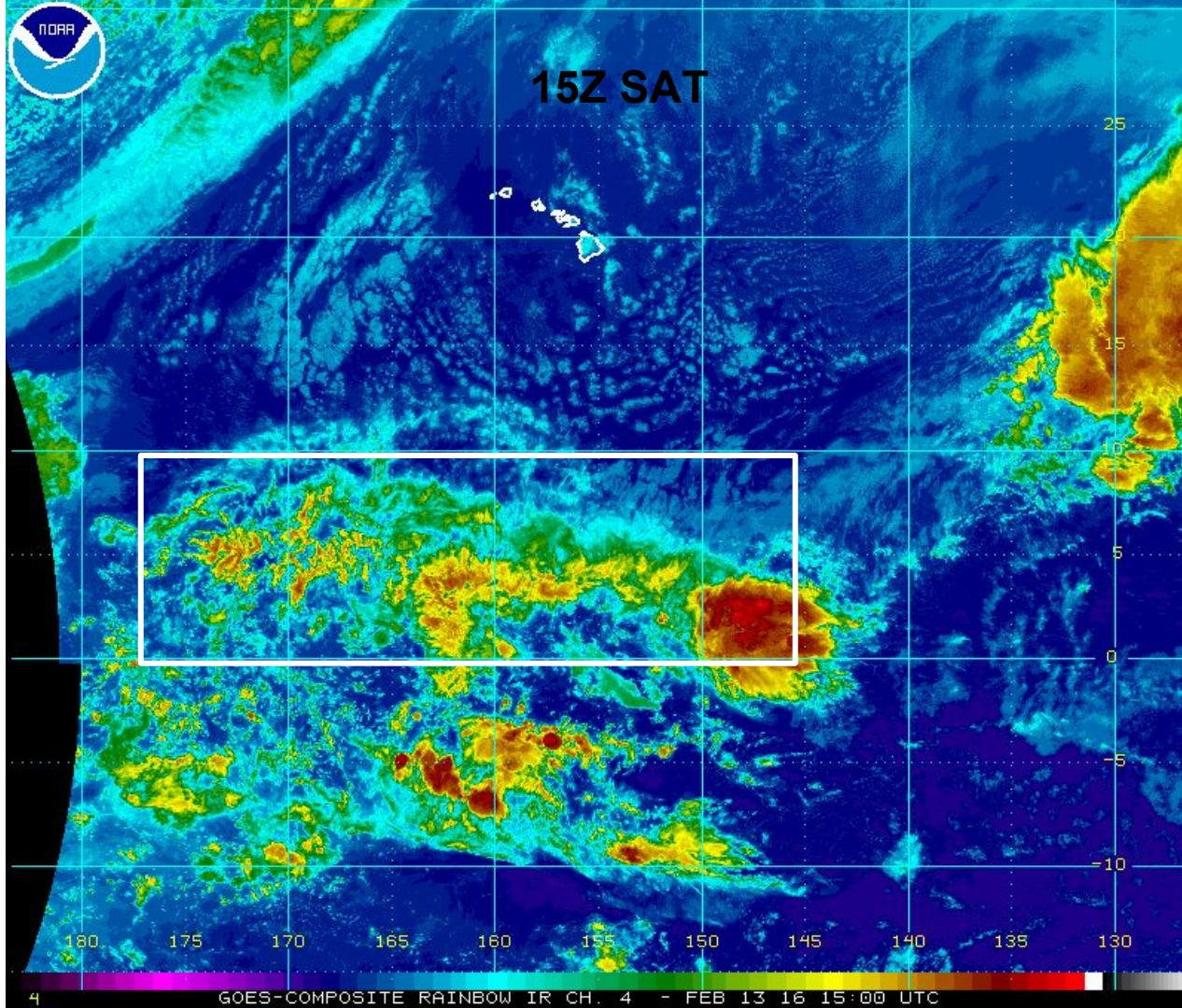


15Z Fri





15Z SAT



4

GOES-COMPOSITE RAINBOW IR CH. 4 - FEB 13 16 15:00 UTC

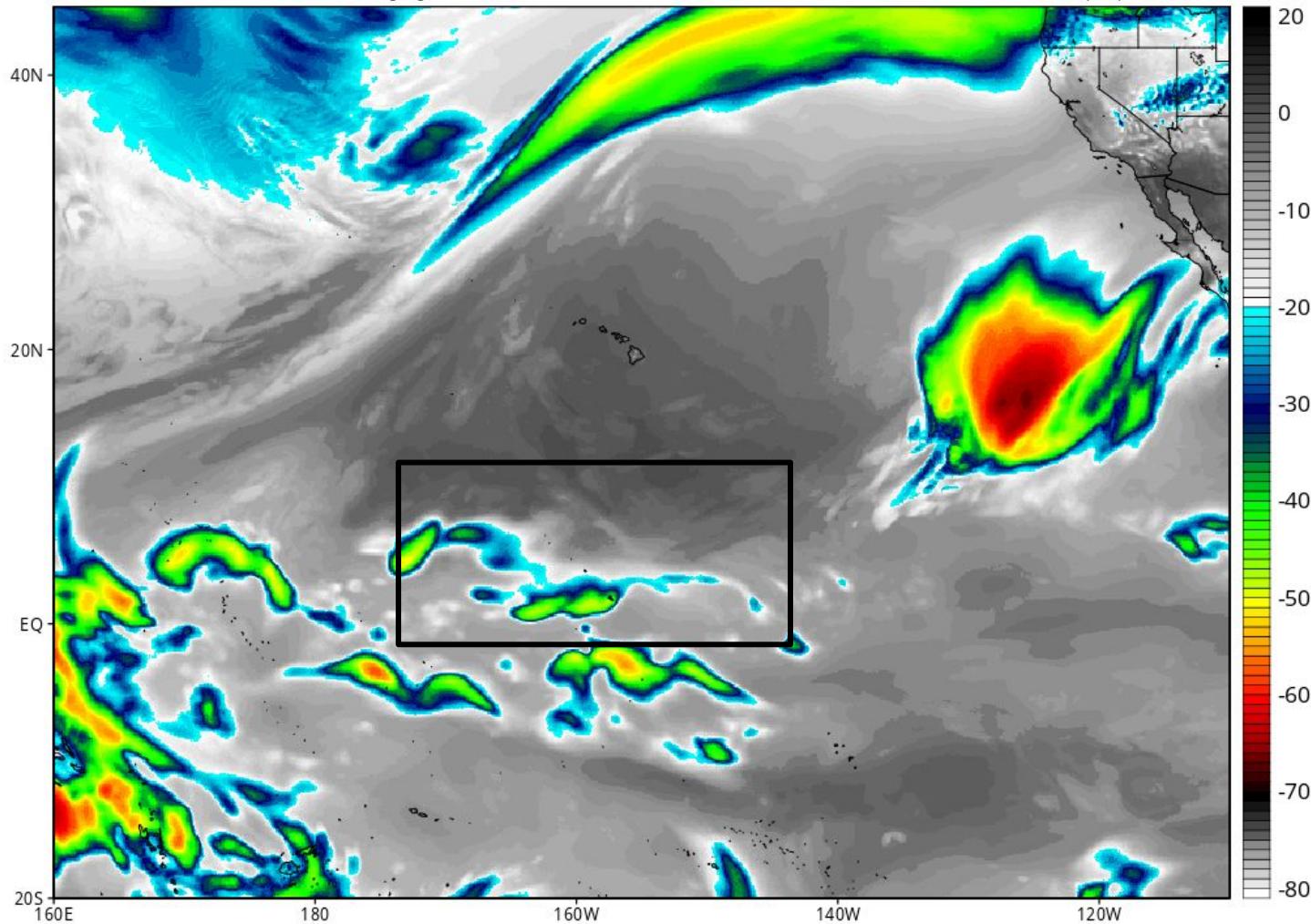
130

GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 13 2016 Forecast Hour: [12] valid at 00z Sun, Feb 14 2016

Latest GFS Valid 00Z SUN

Levi Cowan | tropicaltidbits.com

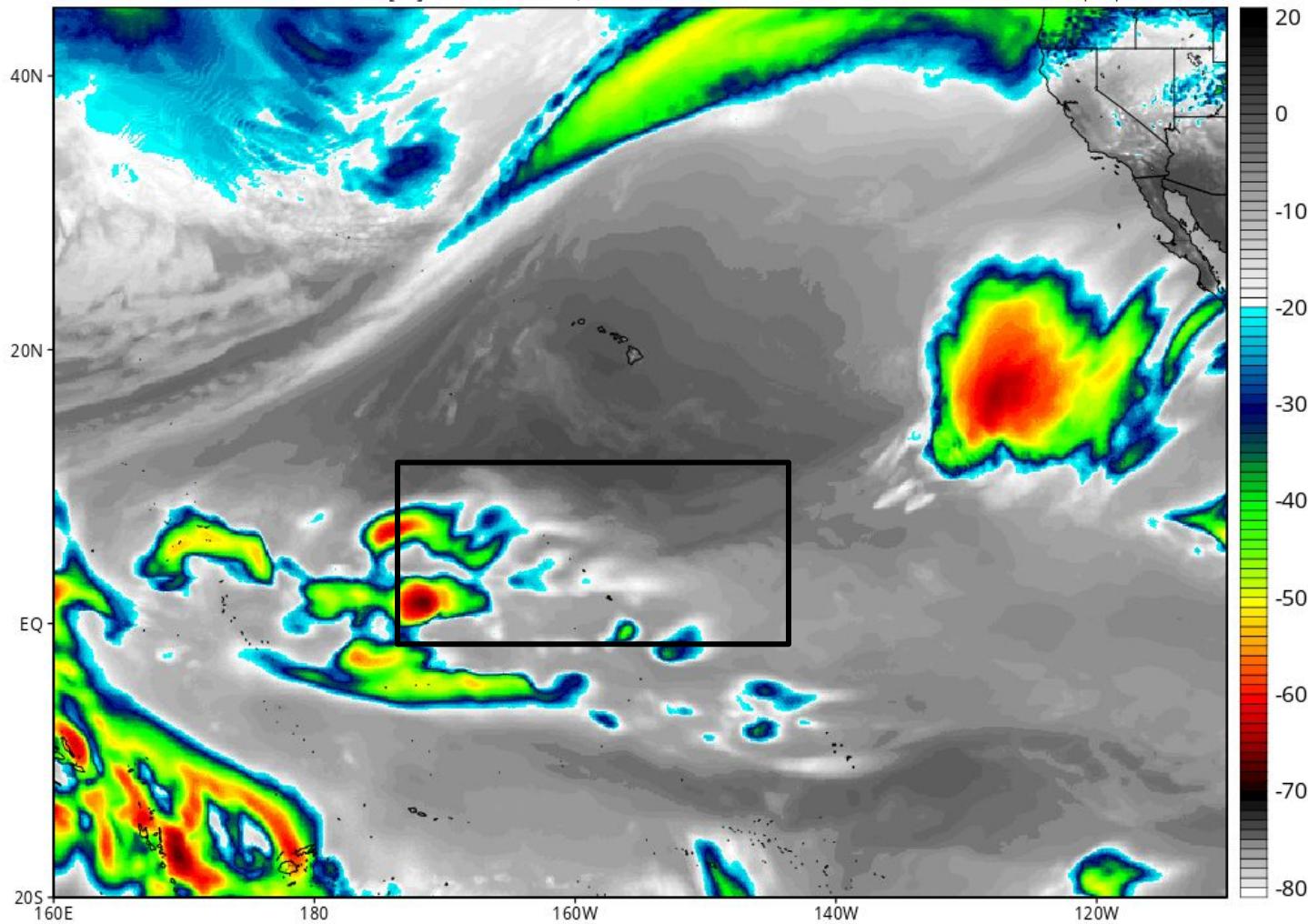


GFS Simulated IR Brightness Temperature (°C)

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Prior GFS Valid 00Z SUN

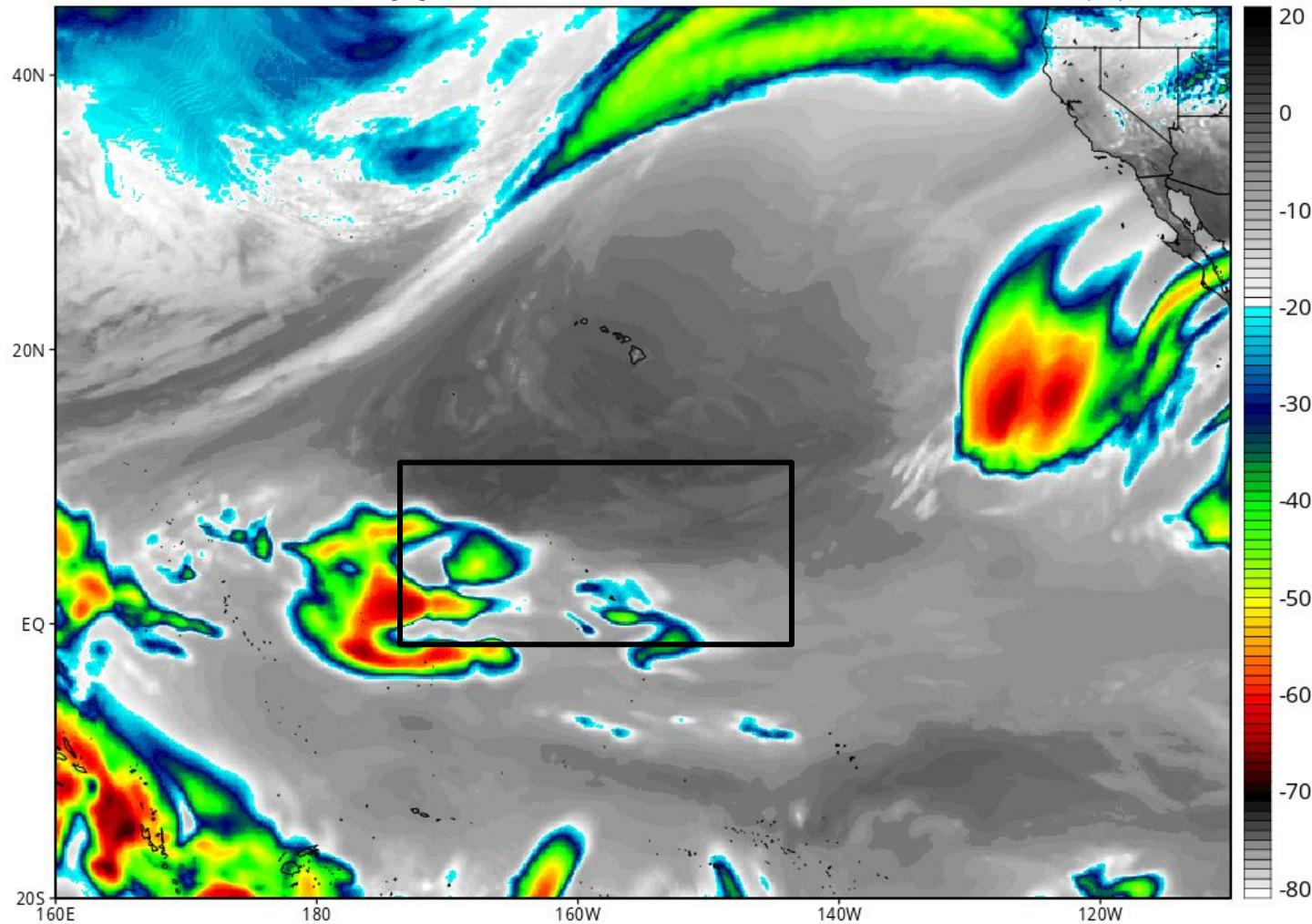
Levi Cowan | tropicaltidbits.com



GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 11 2016 Forecast Hour: [60] valid at 00z Sun, Feb 14 2016

Prior GFS Valid 00Z SUN

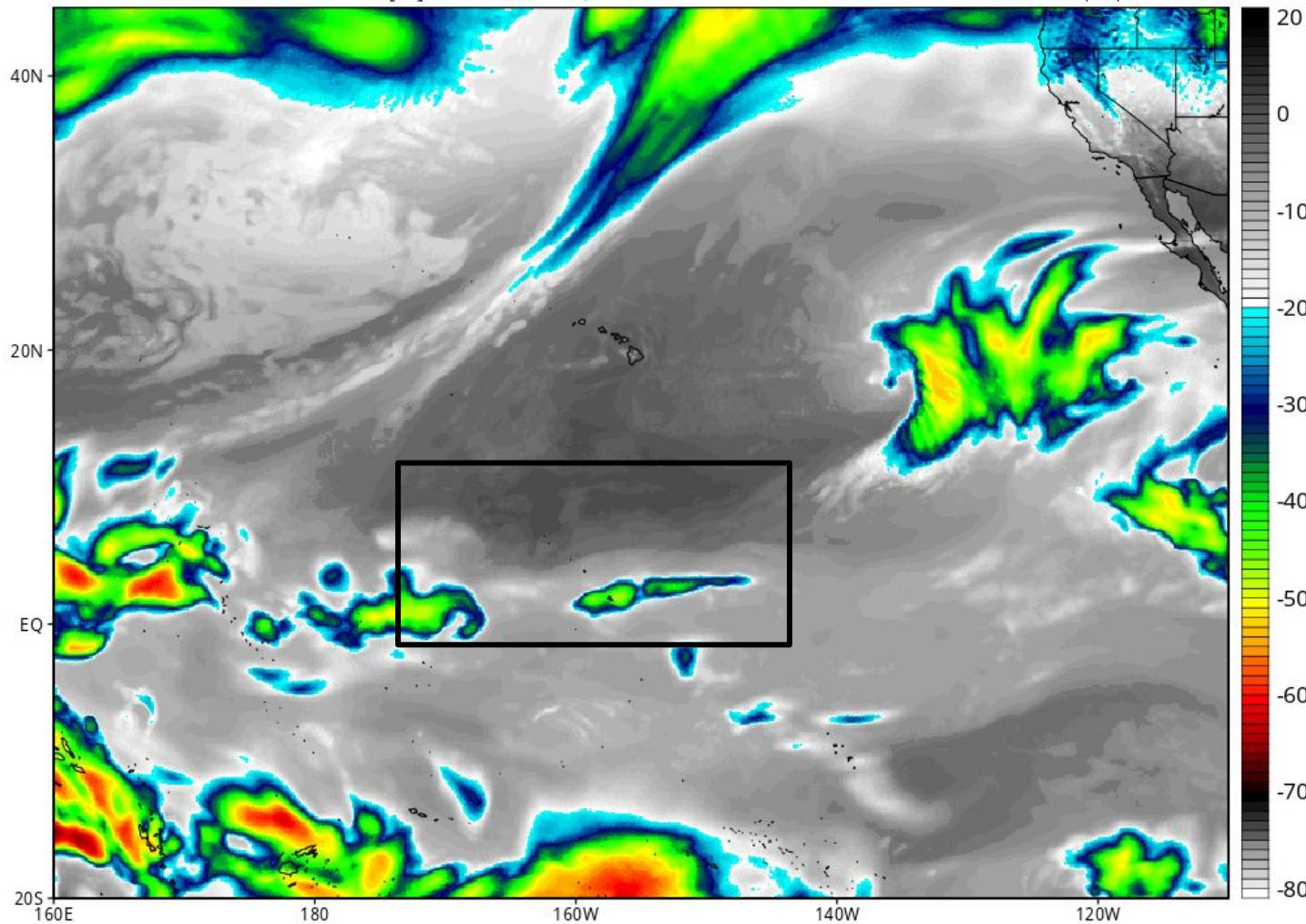


GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 13 2016 Forecast Hour: [36] valid at 00z Mon, Feb 15 2016

Latest GFS Valid 00Z MON

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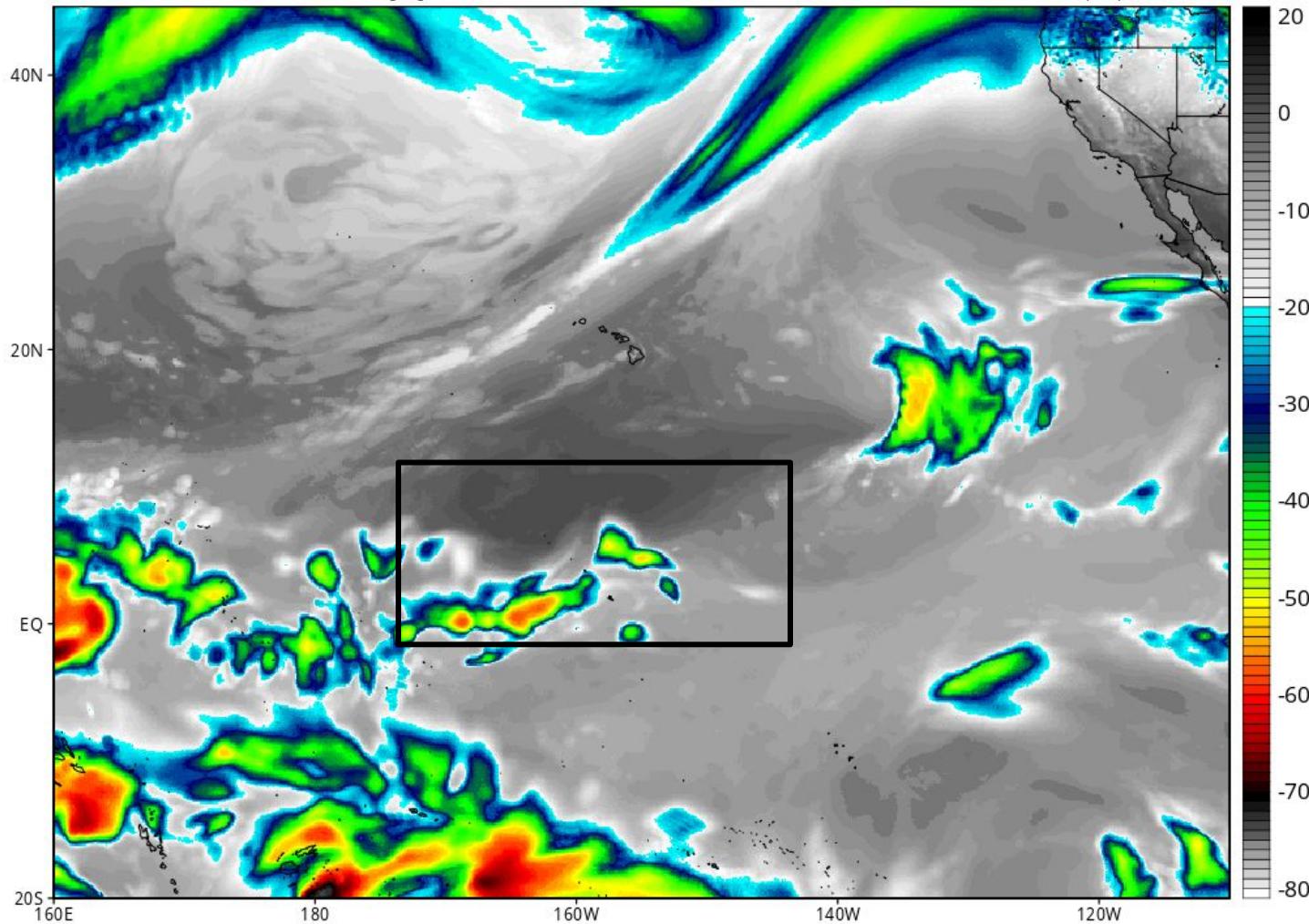


GFS Simulated IR Brightness Temperature (°C)

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Latest GFS Valid 00Z TUE

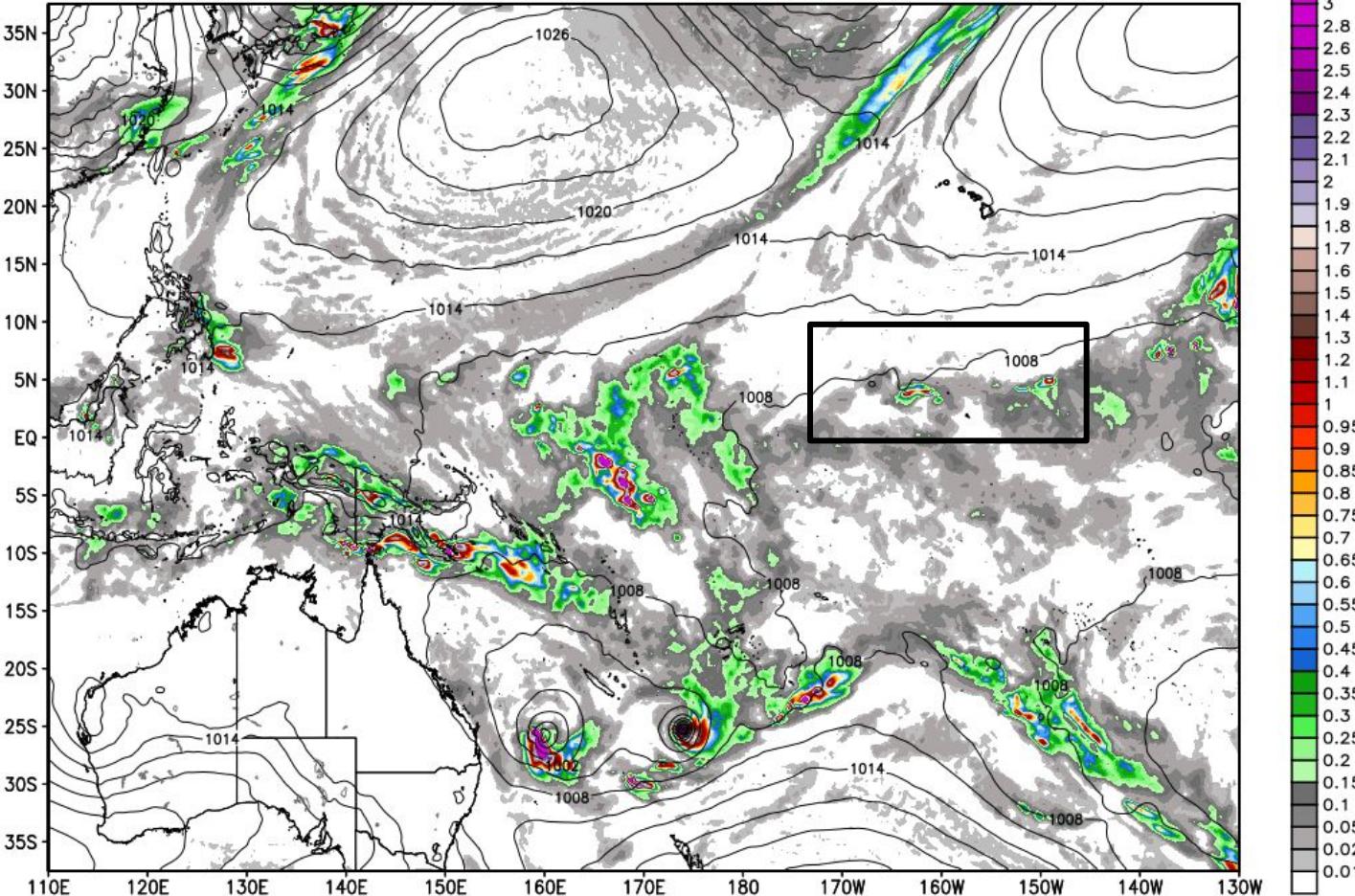
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ECMWF 6-hourly Precipitation [inches] between 18Z13FEB2016 -- 00Z14FEB2016 & MSLP [hPa]
INIT: 00Z13FEB2016 fx: [024] hr --> Sun 00Z14FEB2016

Courtesy WeatherBell

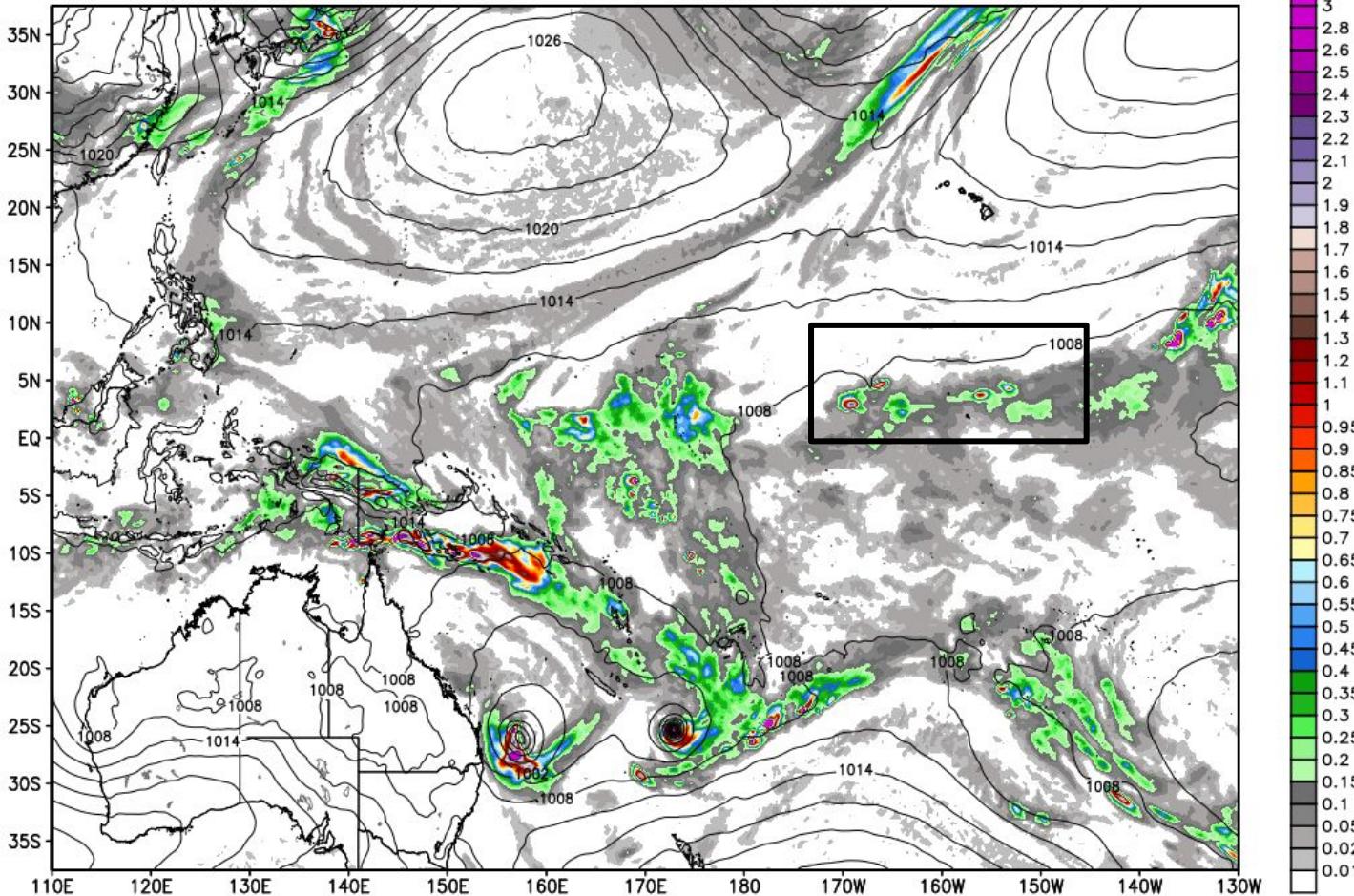
Latest 24 HR ECMWF Valid 00Z SUN Feb 14



ECMWF 6-hourly Precipitation [inches] between 18Z13FEB2016 -- 00Z14FEB2016 & MSLP [hPa]
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Courtesy WeatherBell

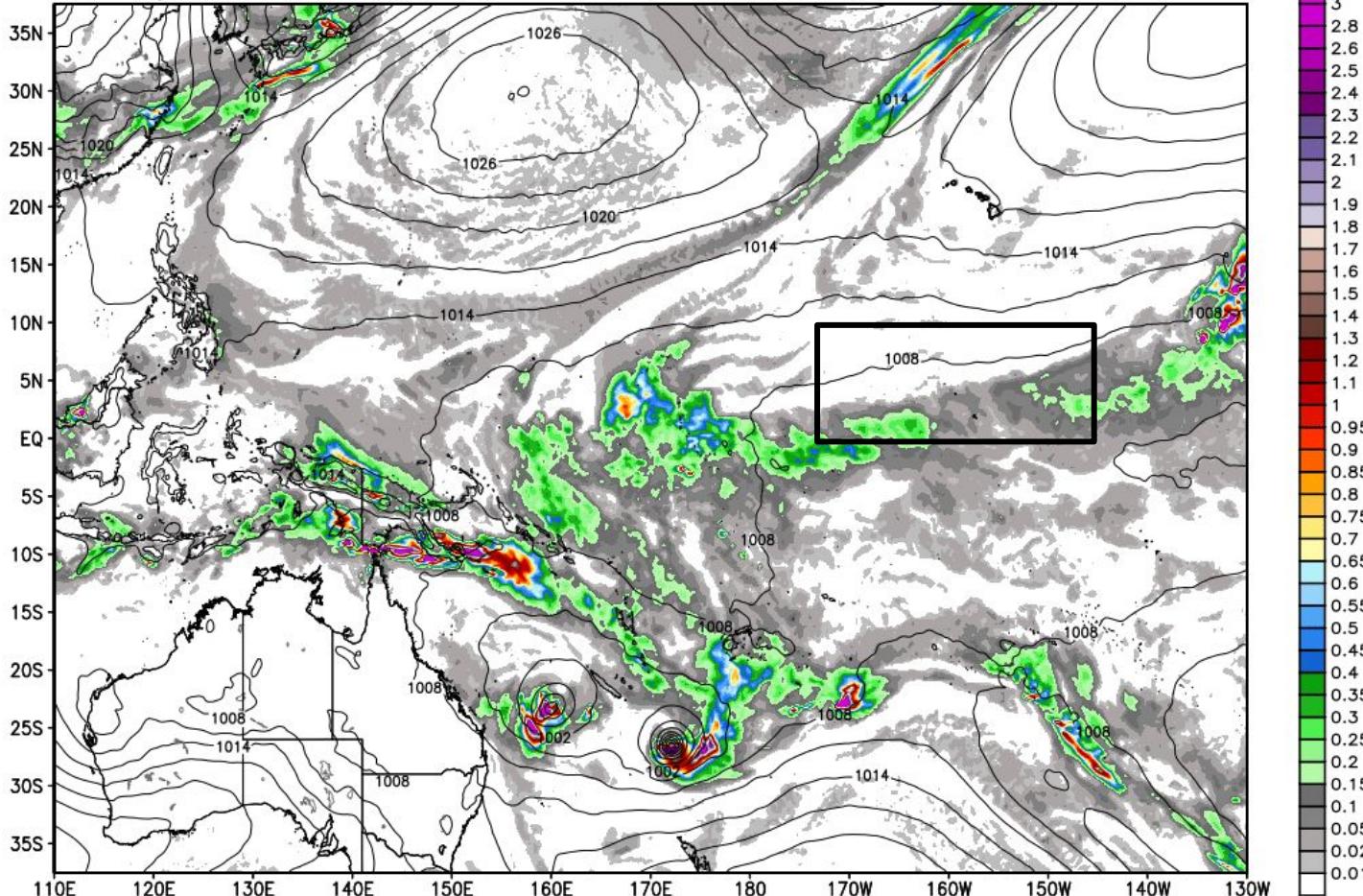
Prior 48 HR ECMWF Valid 00Z SUN Feb 14



ECMWF 6-hourly Precipitation [inches] between 18Z13FEB2016 -- 00Z14FEB2016 & MSLP [hPa]
INIT: 00Z11FEB2016 fx: [072] hr --> Sun 00Z14FEB2016

Courtesy WeatherBell

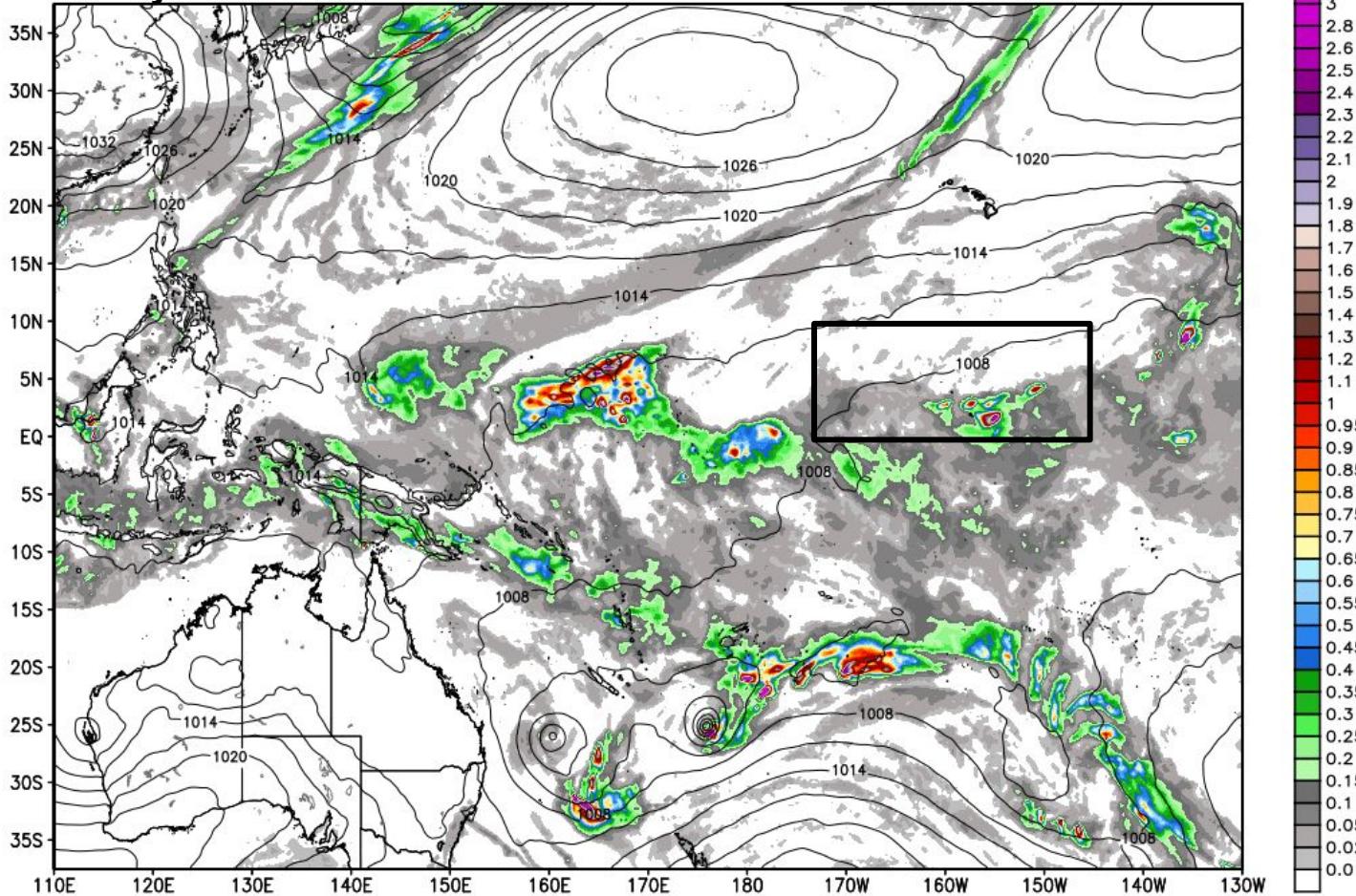
Prior 72 HR ECMWF Valid 00Z SUN Feb 14



ECMWF 6-hourly Precipitation [inches] between 18Z14FEB2016 -- 00Z15FEB2016 & MSLP [hPa]
INIT: 00Z13FEB2016 fx: [048] hr --> Mon 00Z15FEB2016

Courtesy WeatherBell

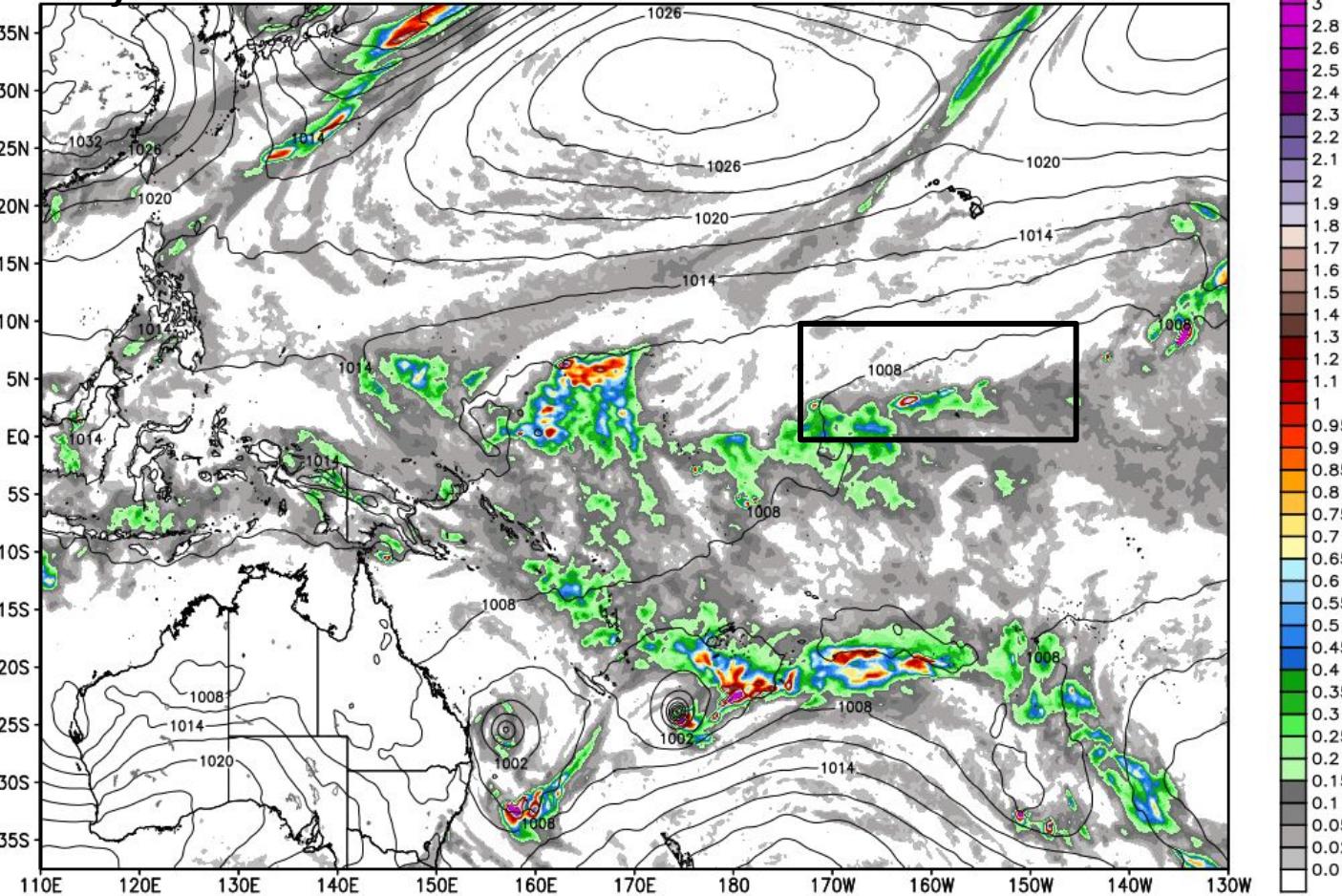
Latest 48 HR ECMWF Valid 00Z MON Feb15



ECMWF 6-hourly Precipitation [inches] between 18Z14FEB2016 -- 00Z15FEB2016 & MSLP [hPa]
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Courtesy WeatherBell

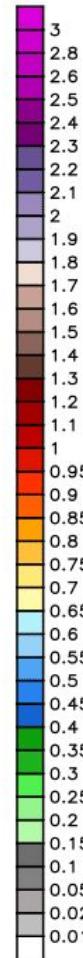
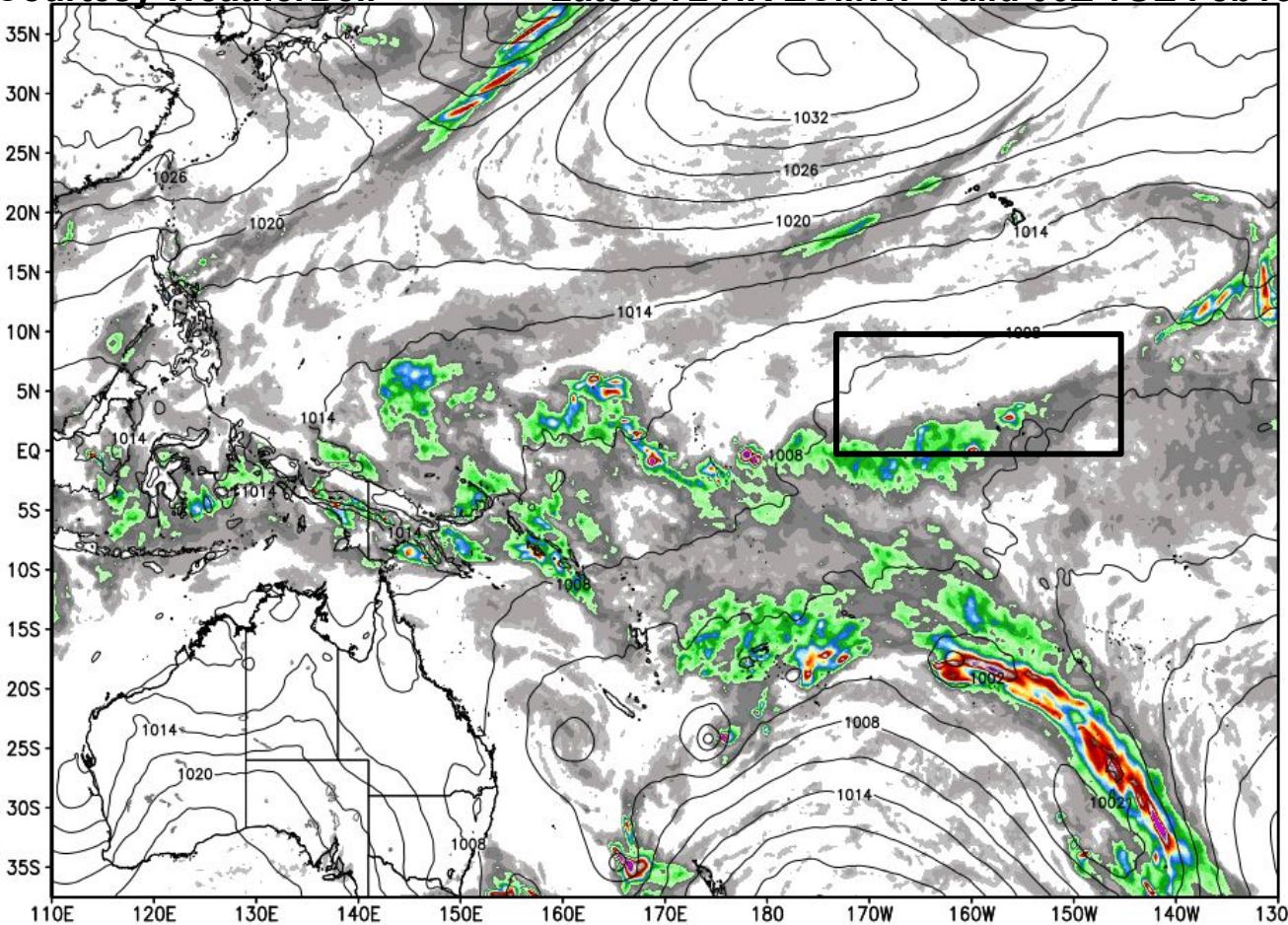
Prior 72 HR ECMWF Valid 00Z MON Feb 15



ECMWF 6-hourly Precipitation [inches] between 18Z15FEB2016 -- 00Z16FEB2016 & MSLP [hPa]
INIT: 00Z13FEB2016 fx: [072] hr --> Tue 00Z16FEB2016

Courtesy WeatherBell

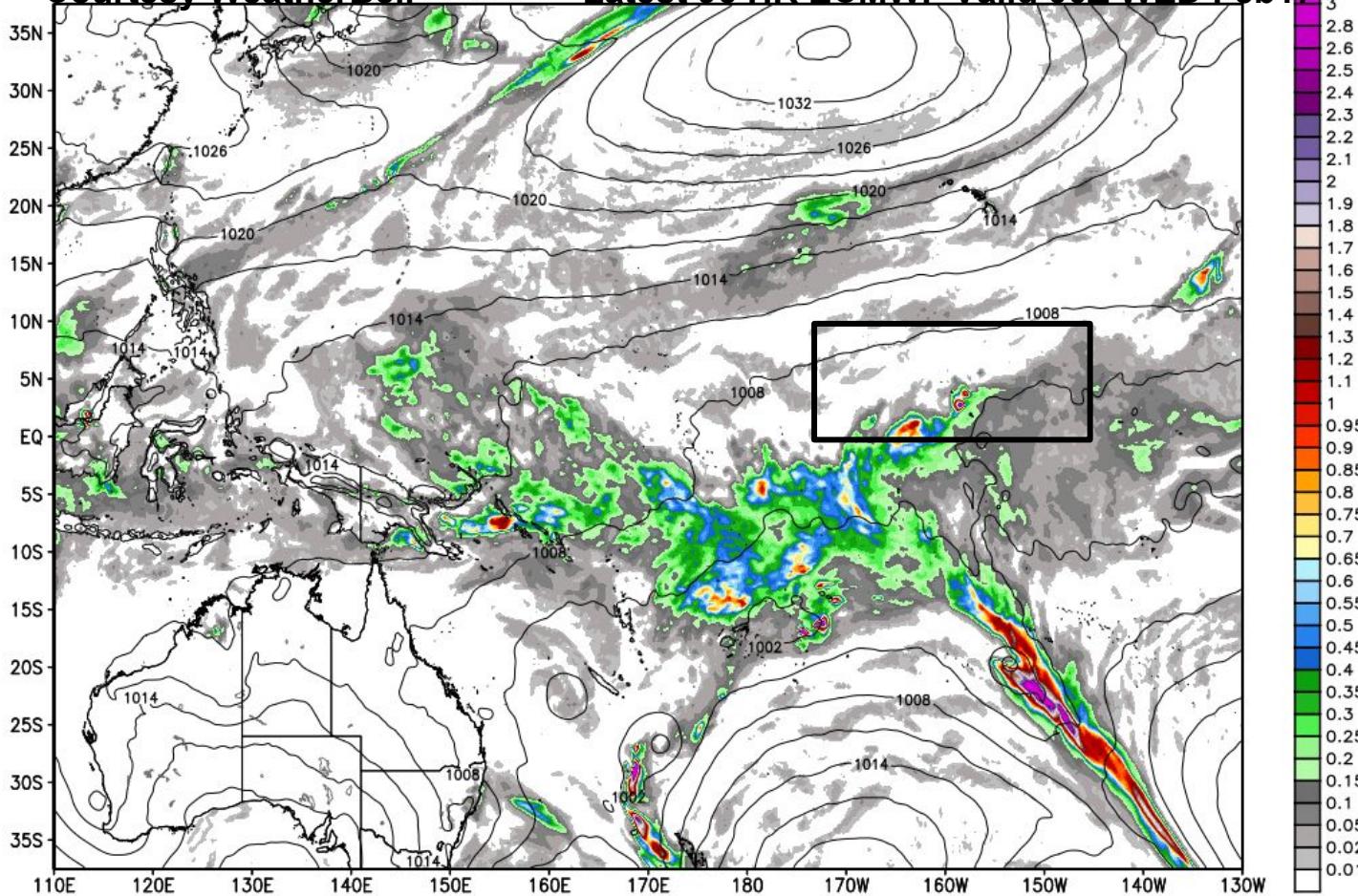
Latest 72 HR ECMWF Valid 00Z TUE Feb16



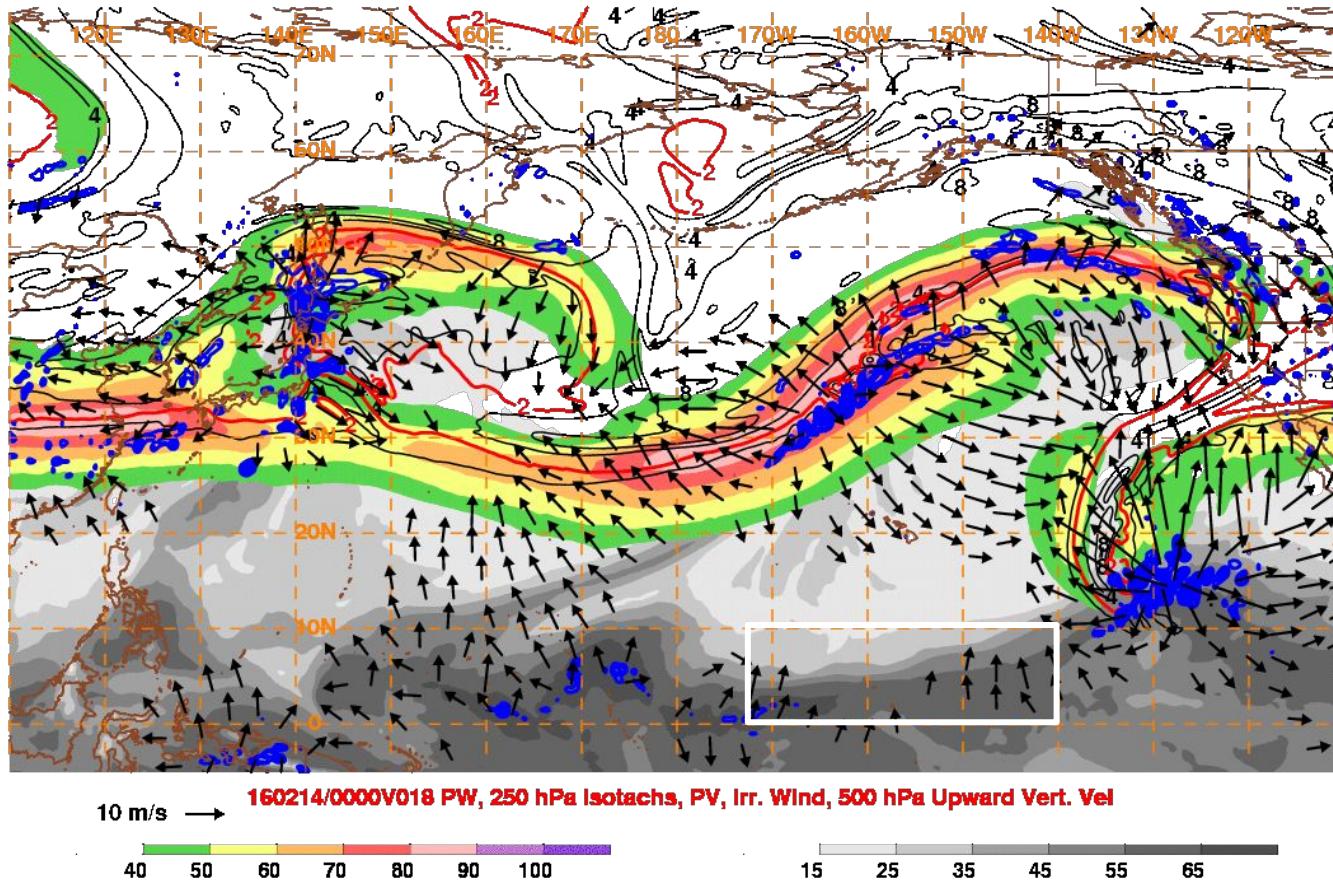
ECMWF 6-hourly Precipitation [inches] between 18Z16FEB2016 -- 00Z17FEB2016 & MSLP [hPa]
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Courtesy WeatherBell

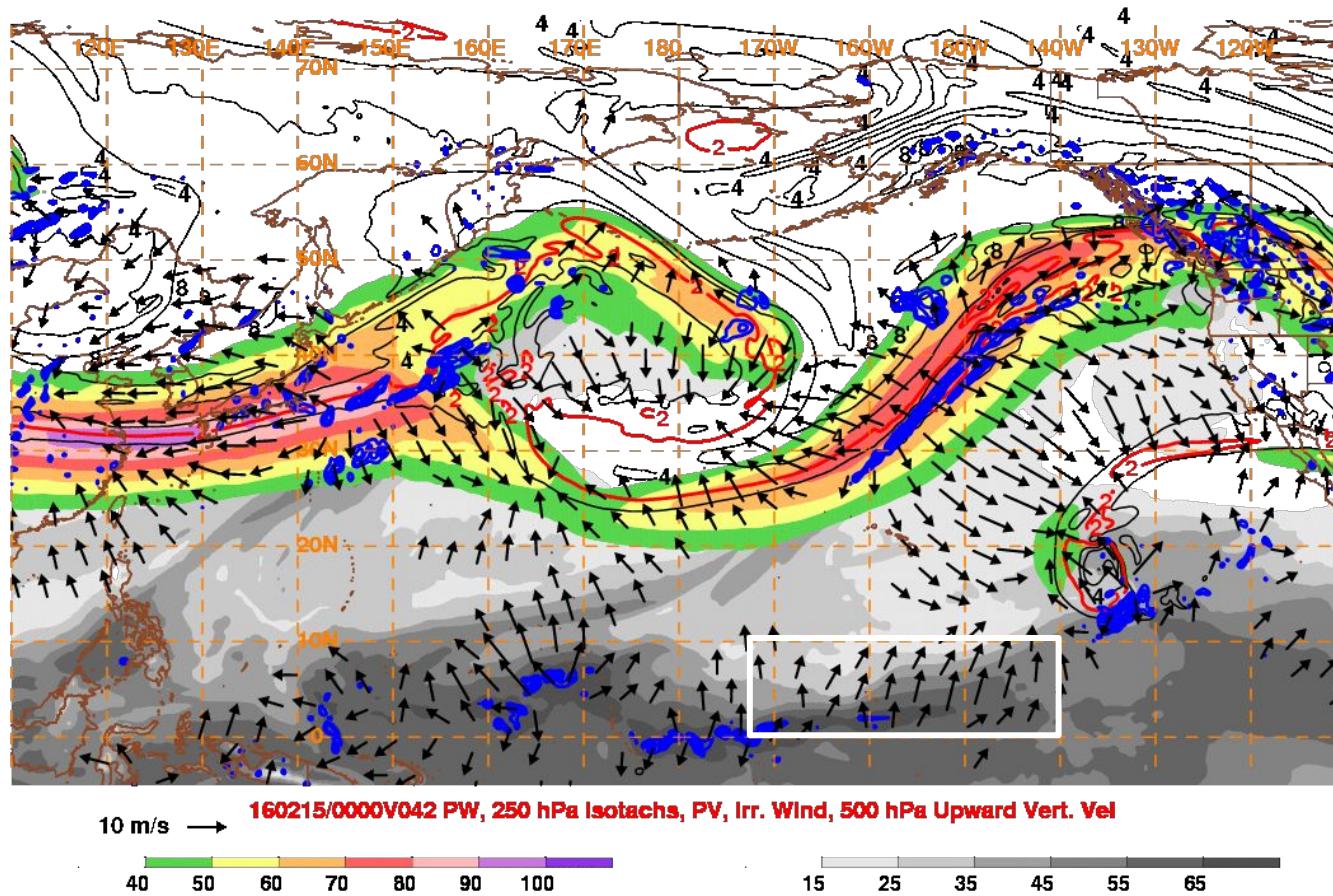
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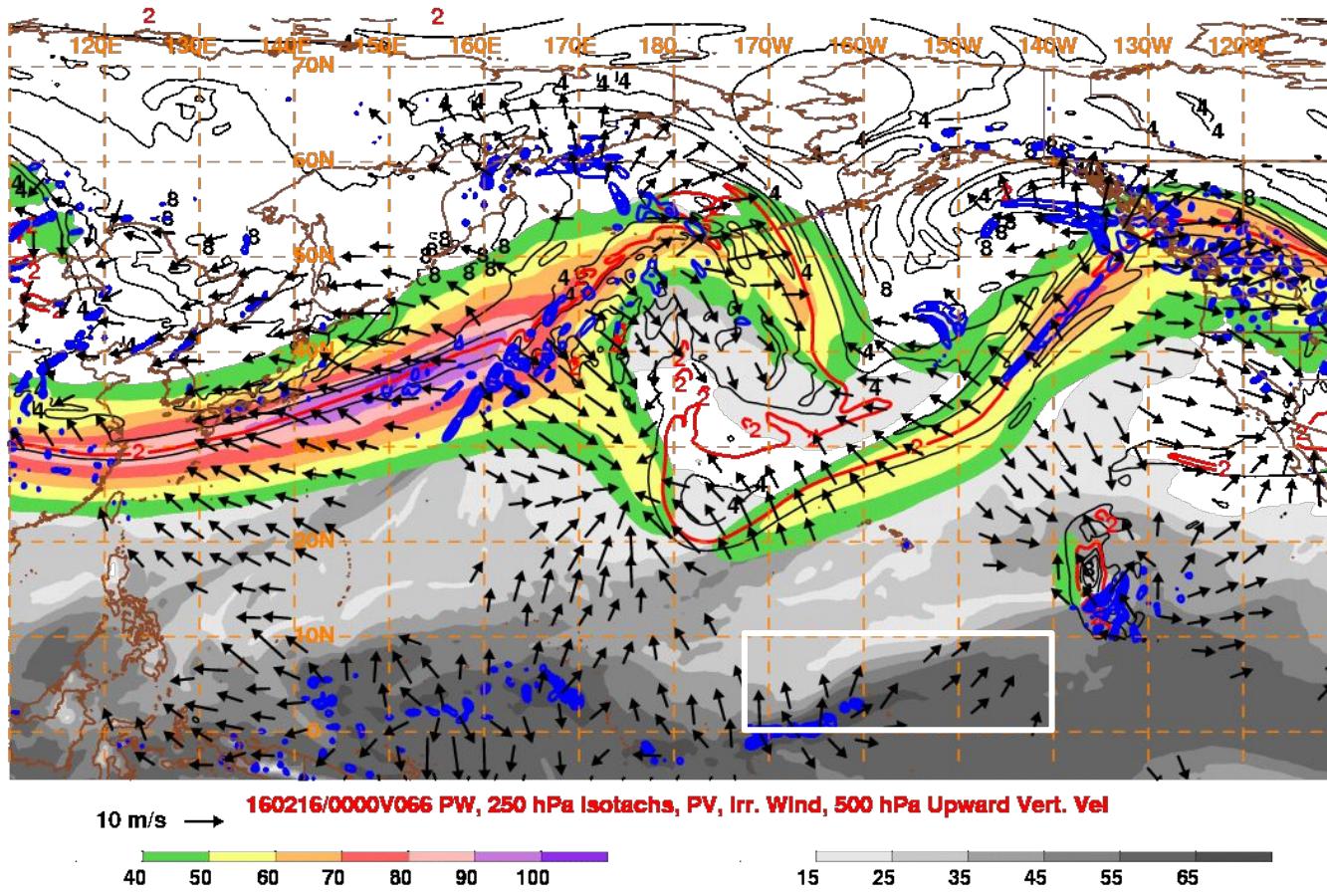
GFS 18HR FCST Valid 00Z SUN Feb 14: 200 mb DIV Wind Vectors



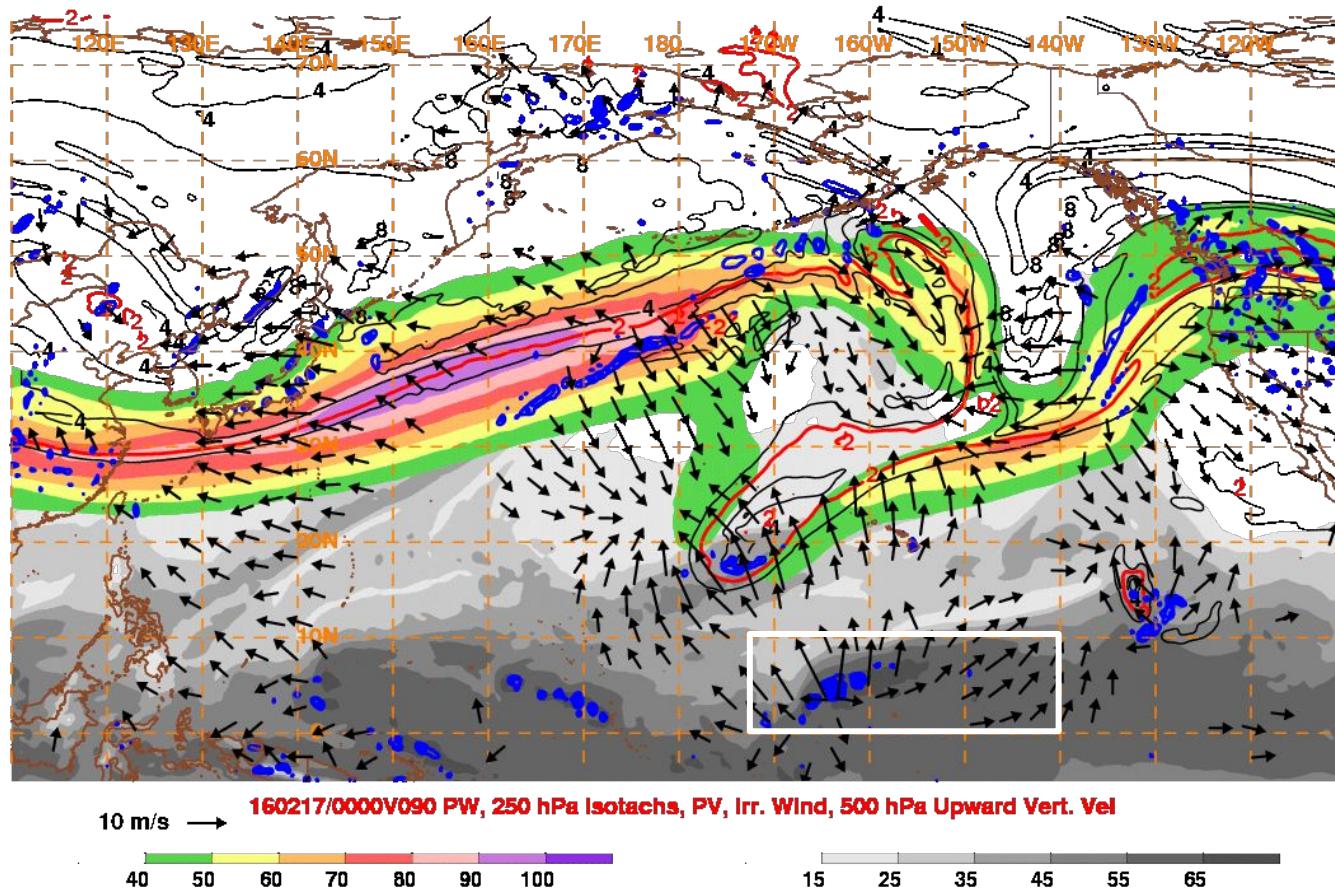
GFS 42HR FCST Valid 00Z Mon Feb 15: 200 mb DIV Wind Vectors



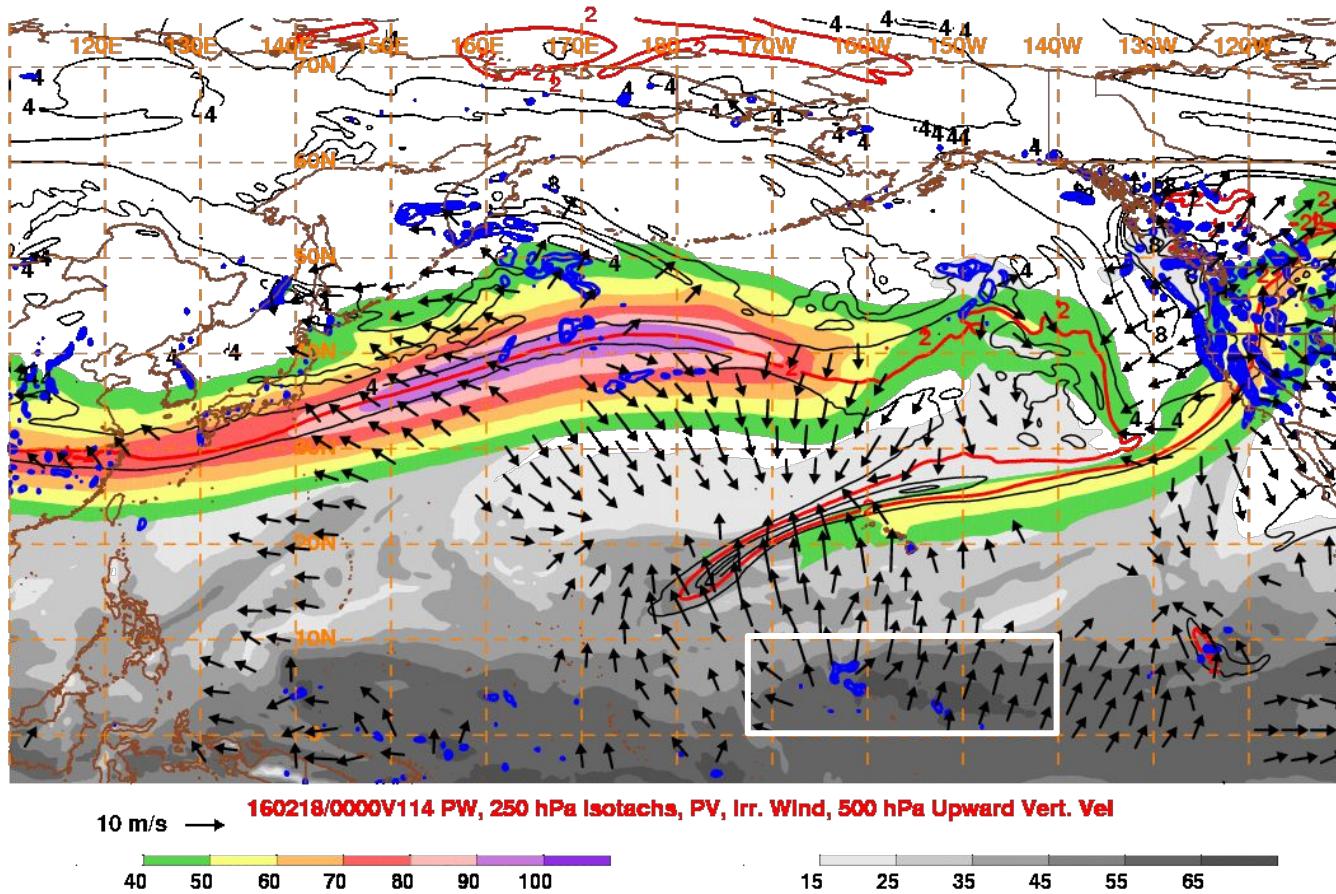
GFS 66HR FCST Valid 00Z Tue Feb 16: 200 mb DIV Wind Vectors



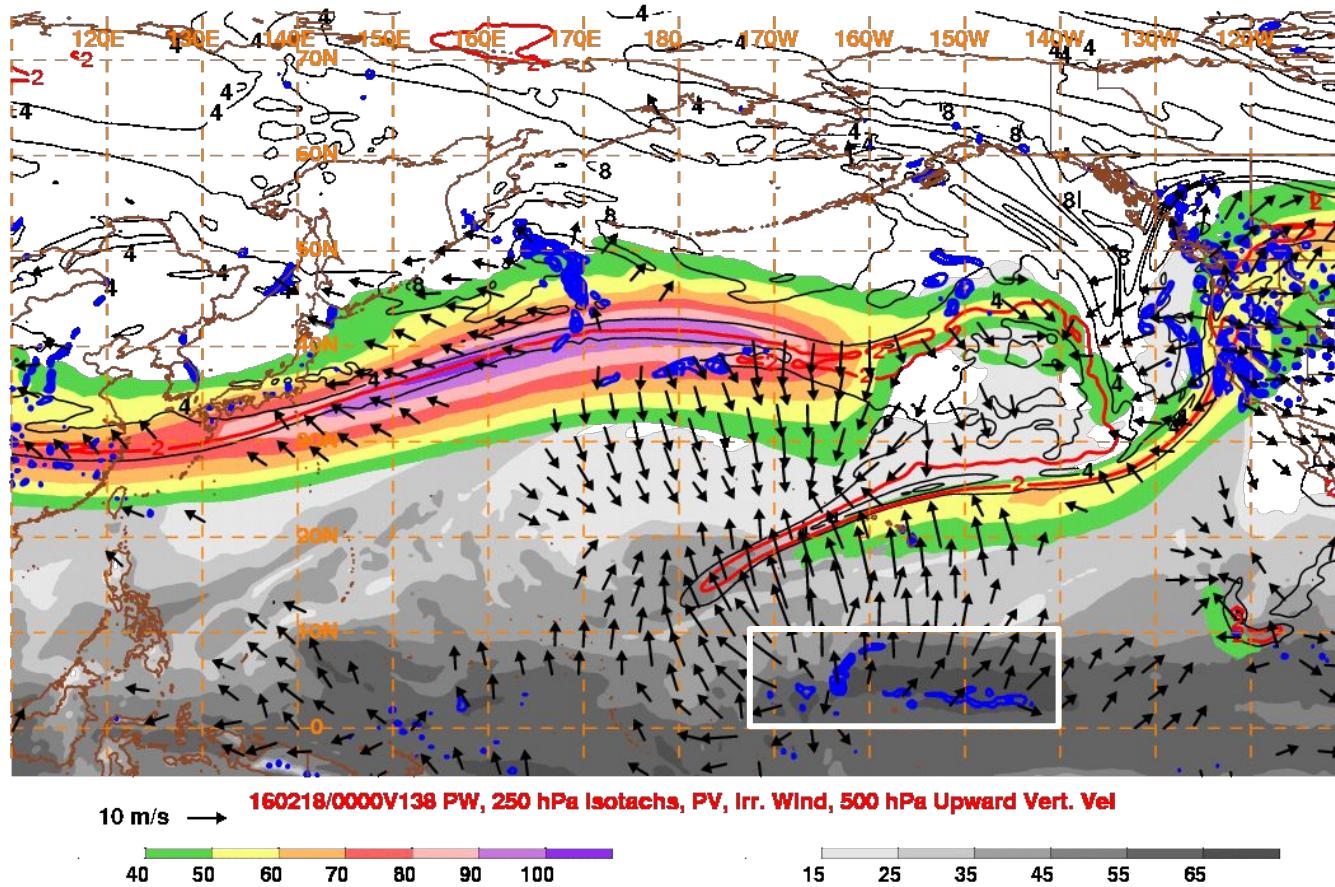
GFS 90HR FCST Valid 00Z Wed Feb 17: 200 mb DIV Wind Vectors



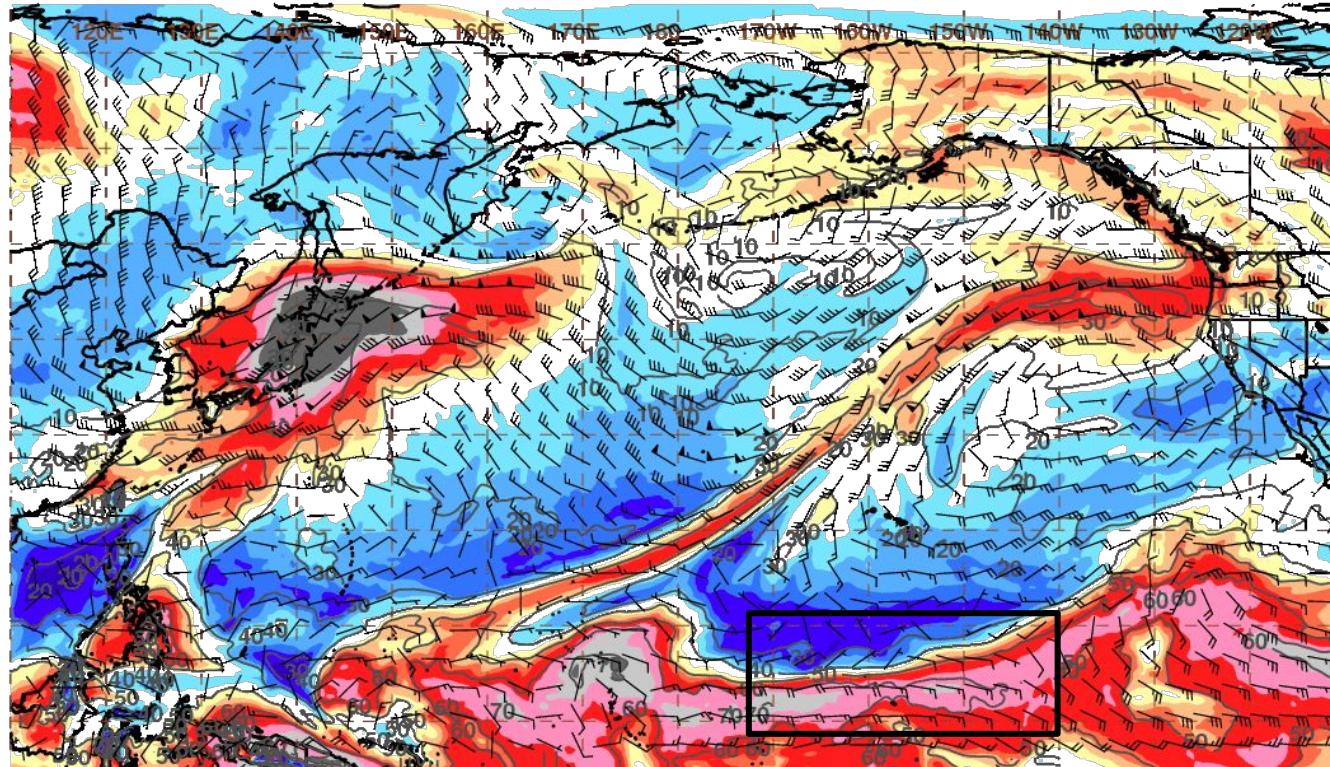
GFS 114HR FCST Valid 00Z THU Feb 18: 200 mb DIV Wind Vectors



GFS 138HR FCST Valid 00Z THU Feb 18: 200 mb DIV Wind Vectors



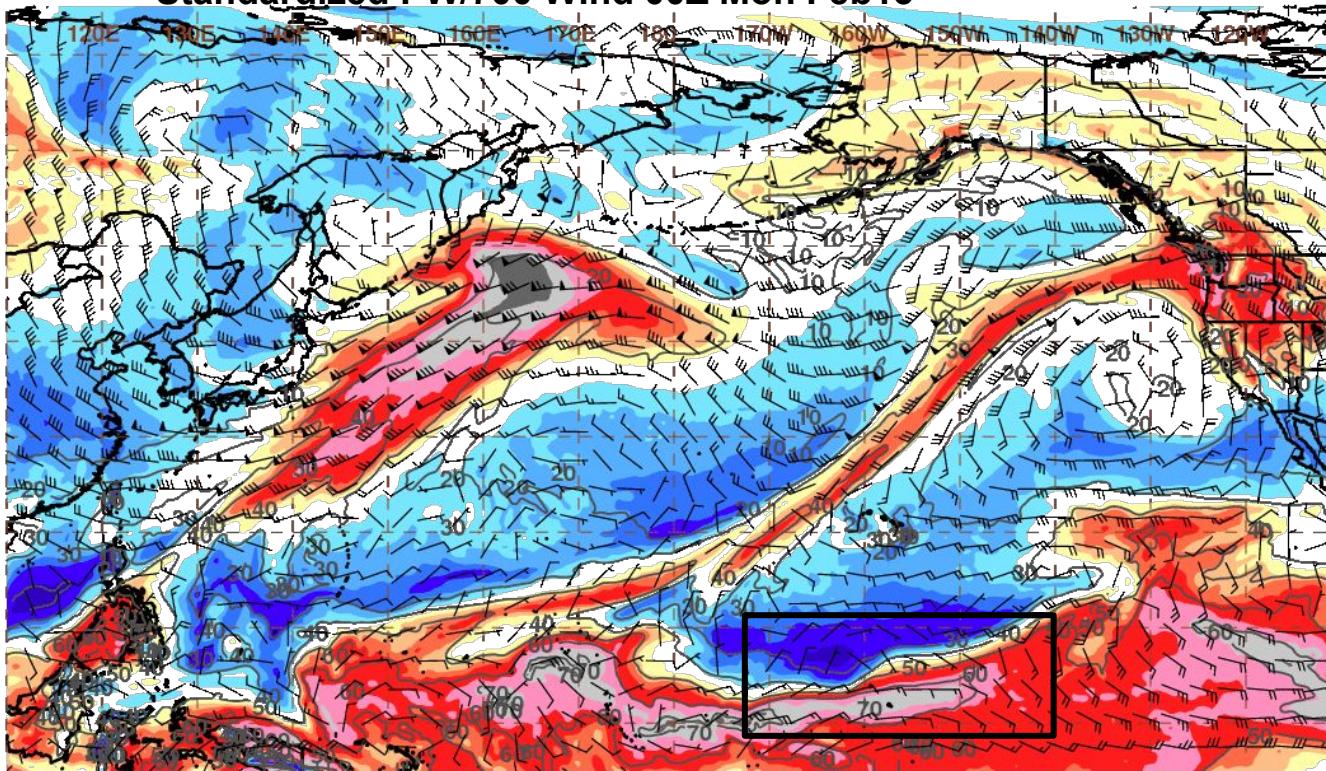
Standardized PW/700 Wind 00Z Sun Feb 14



160214/0000F018 Std. Anom of PW; 700 hPa Wind



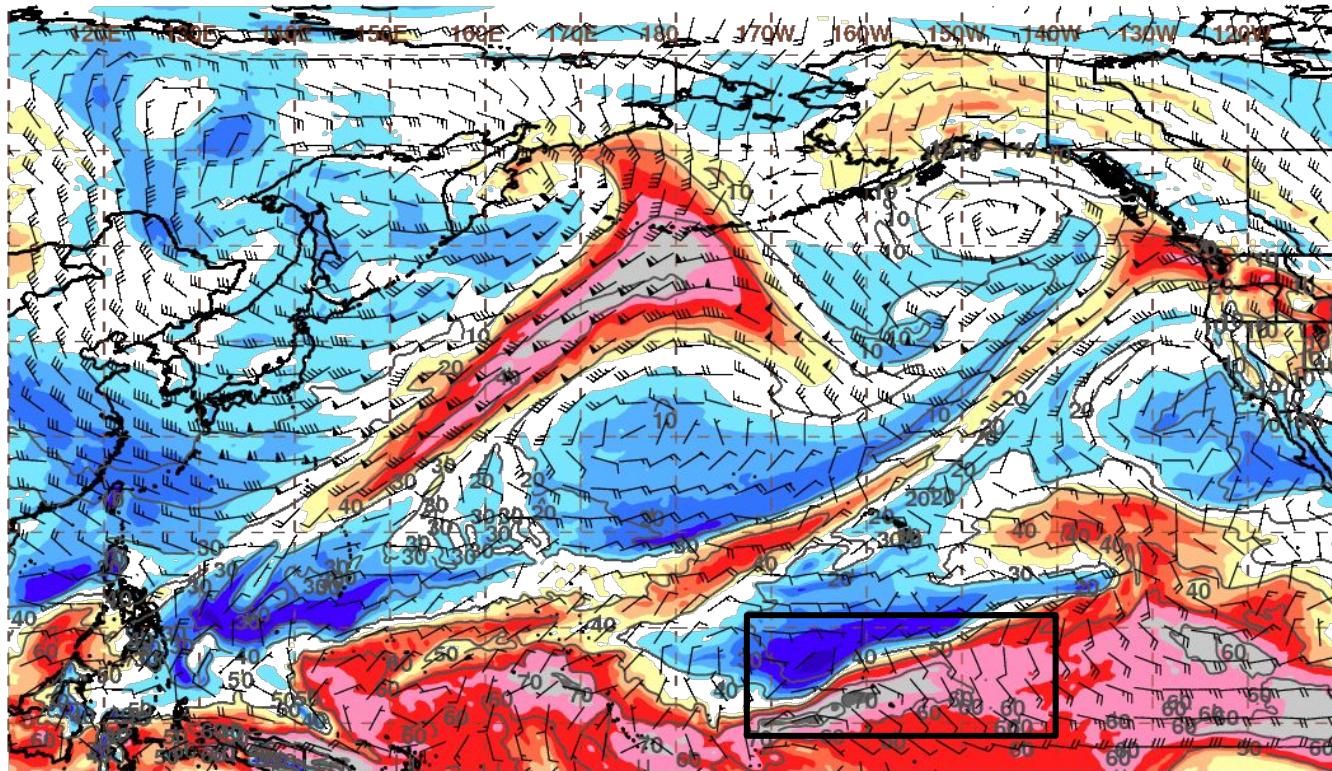
Standardized PW/700 Wind 00Z Mon Feb15



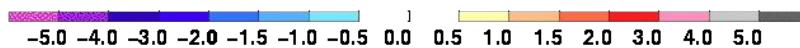
160215/0000F042 Std. Anom of PW; 700 hPa Wind



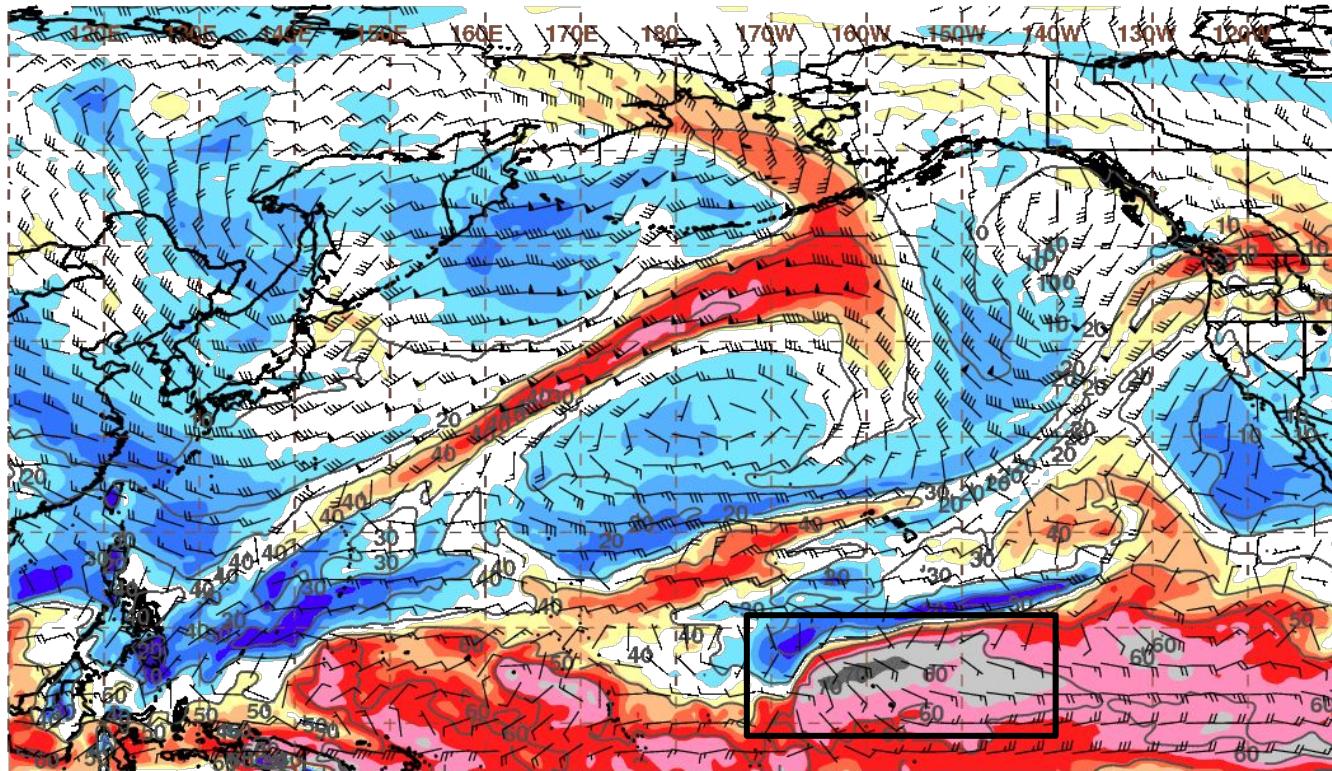
Standardized PW/700 Wind 00Z TUE Feb 16



160216/0000F066 Std. Anom of PW; 700 hPa Wind



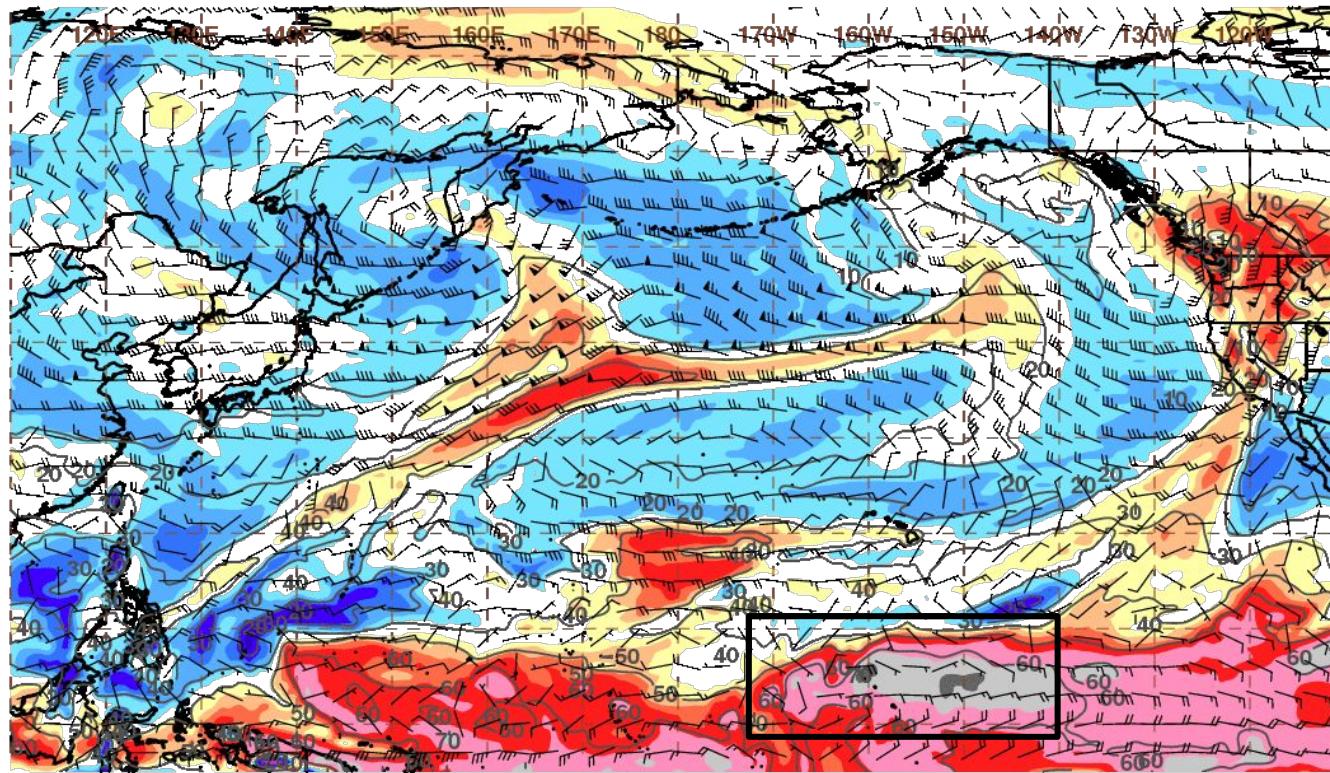
Standardized PW/700 Wind 00Z WED Feb 17



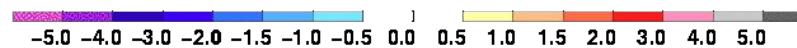
160217/0000F090 Std. Anom of PW; 700 hPa Wind



Standardized PW/700 Wind 00Z THU Feb 18

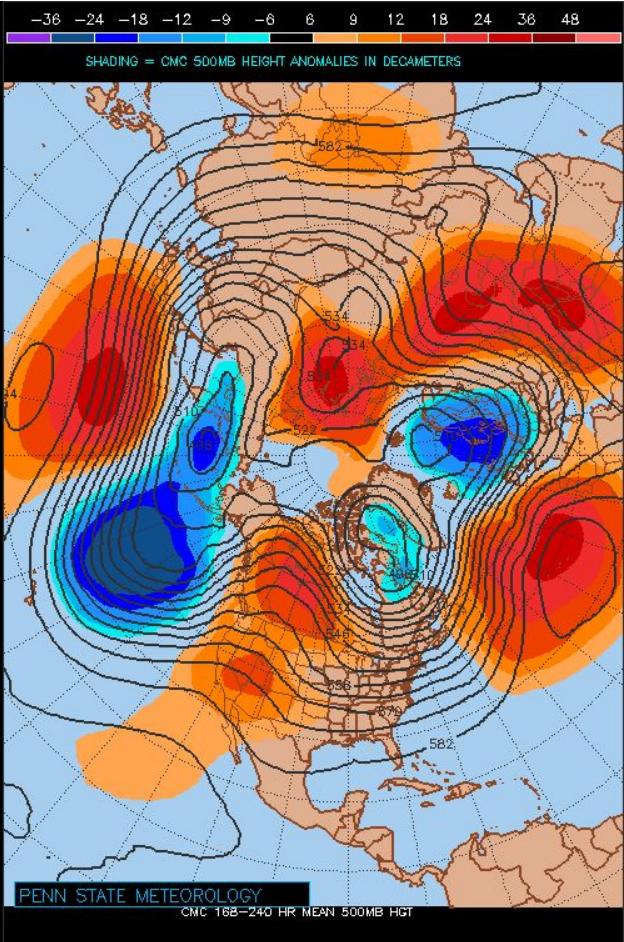
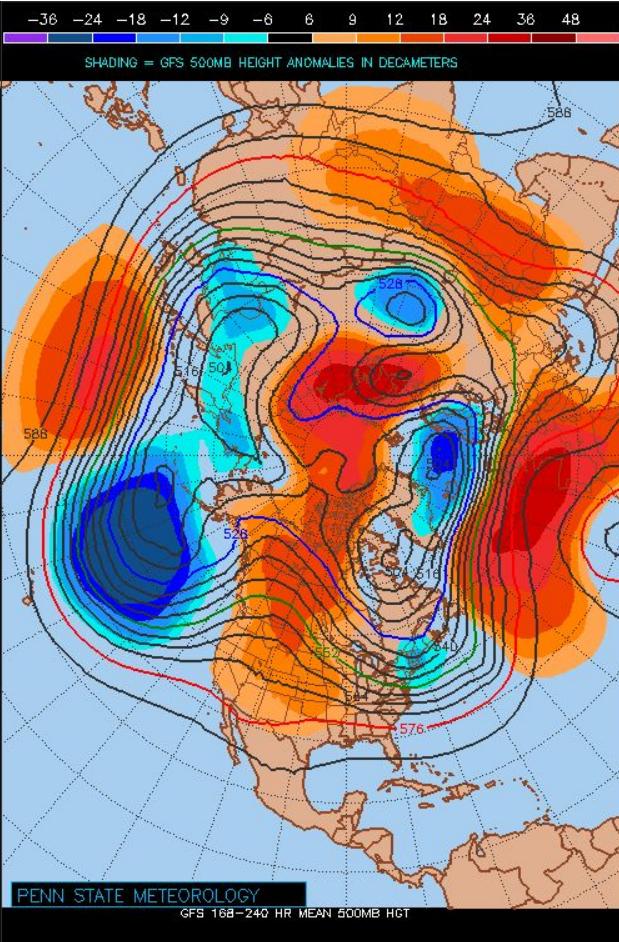
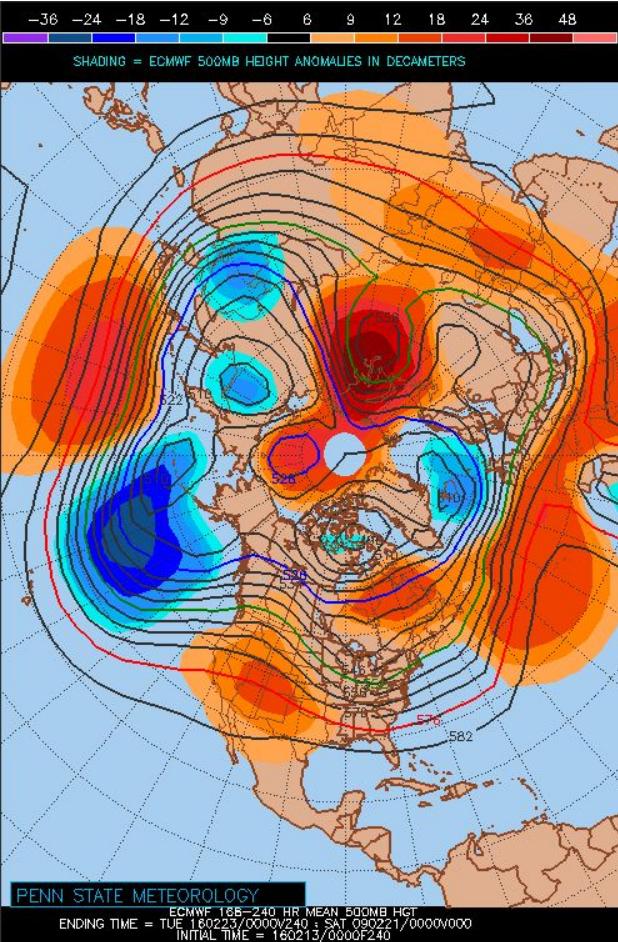


160218/0000F114 Std. Anom of PW; 700 hPa Wind

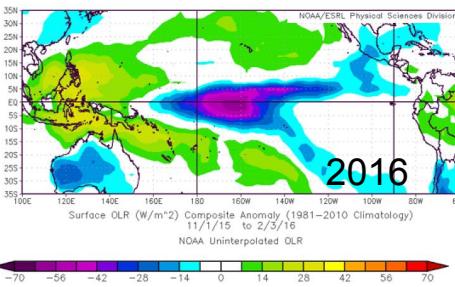
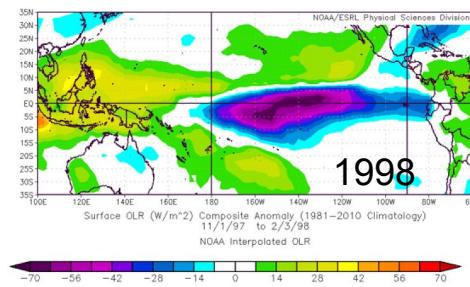
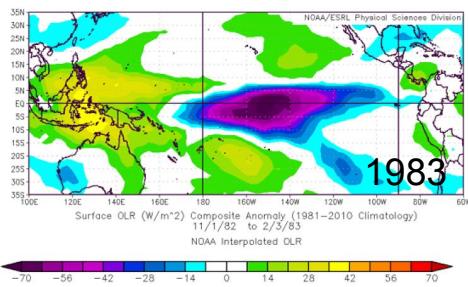
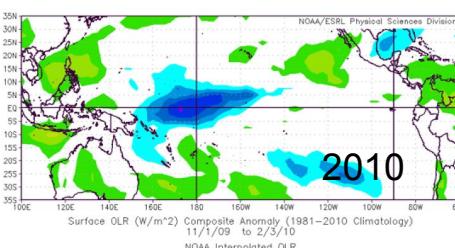
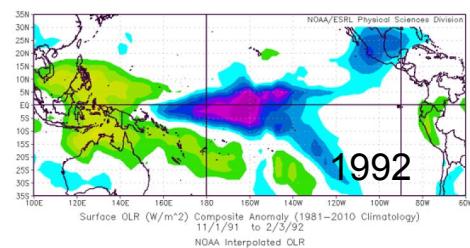
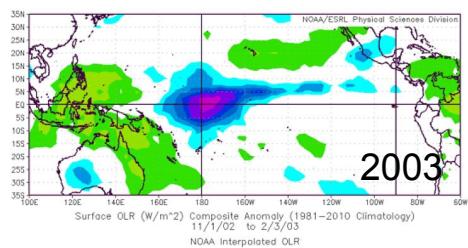
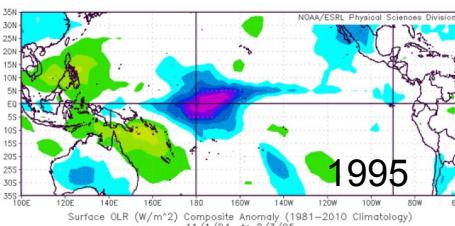
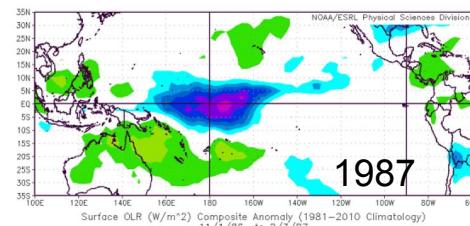
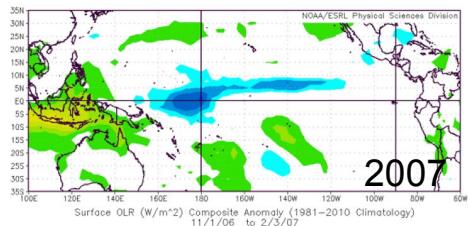


Medium - Long Range Forecast

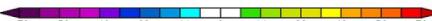
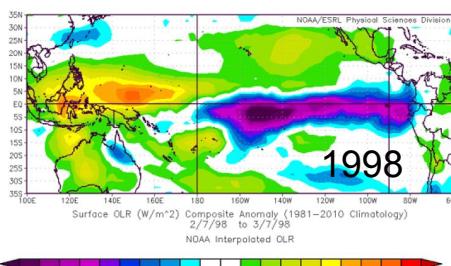
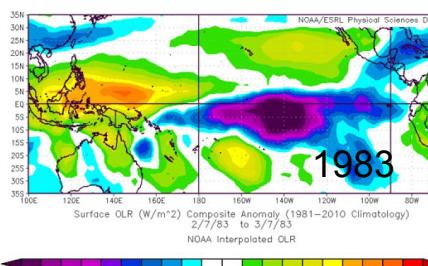
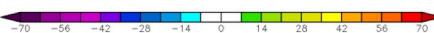
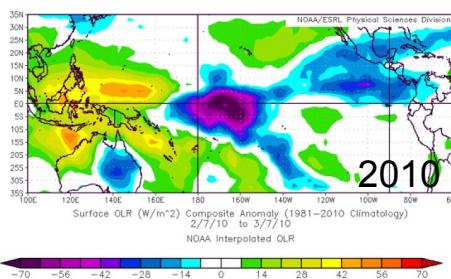
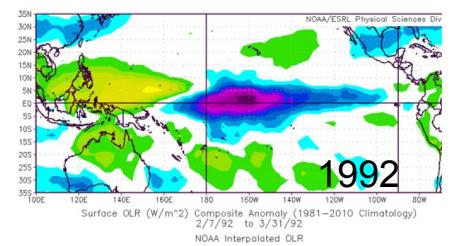
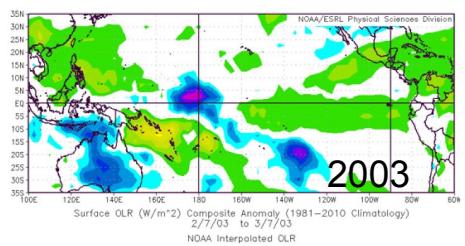
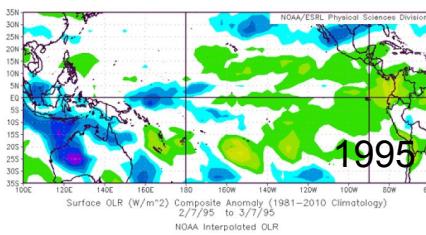
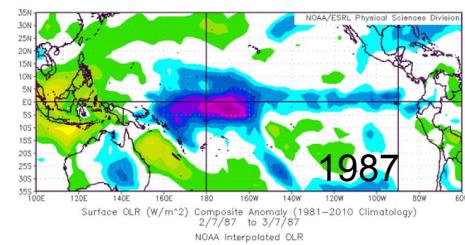
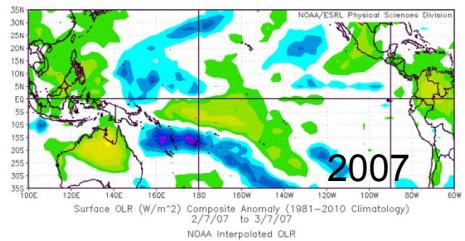
Day 7-10 Initialized 00Z SAT 13 Feb



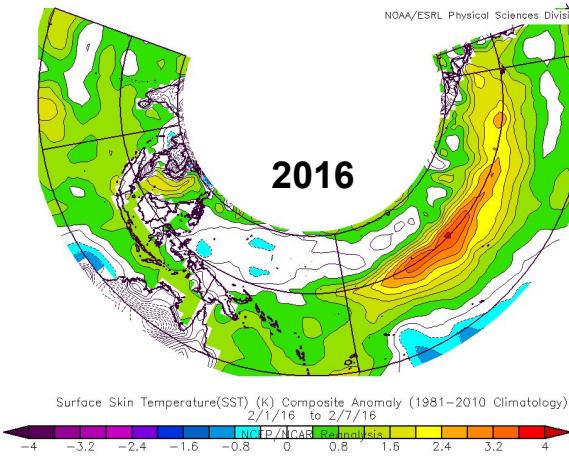
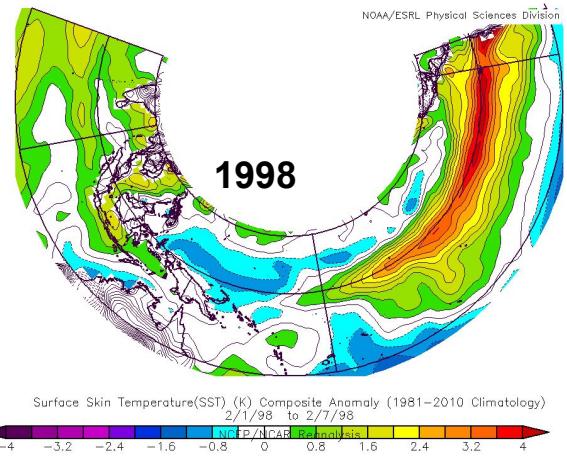
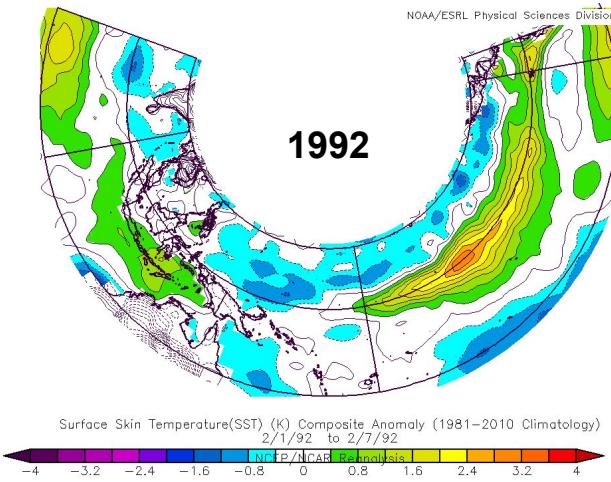
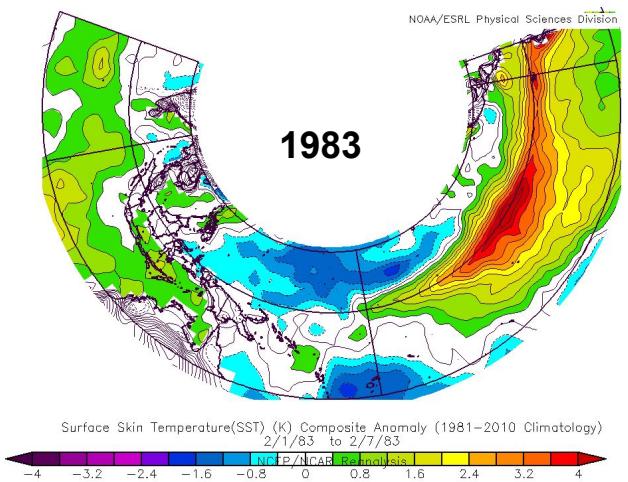
Observed OLR Anomalies : 1 Nov - 3 Feb



Observed OLR Anomalies : 7 Feb - 7 Mar



SST ANOM Feb 1-Feb 7



OLR ANOM Feb 1-Feb 7

NOAA/ESRL Physical Sciences Division

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1983

1992

1998

2016

