

Summary of Key Briefing Points
1030-1130am MST Mon Feb 22, 2016

Current Conditions as of Mon 12Z-15Z February 22

Tropics and Mid-latitudes

Over the Tropical Pacific:

- Activity 0-8N 160W-167W
- Isolated complex near 1N, 153W
- Mid-latitude cyclone wrapping up n. of HI
 - connection to tropical outflow in east part of FD (suggested in latest WV image)
- Strong radial outflow from convective complex 160W-167W.
- Large scale anticyclone 130W-160W, centered near 5N

Tropical Outlook

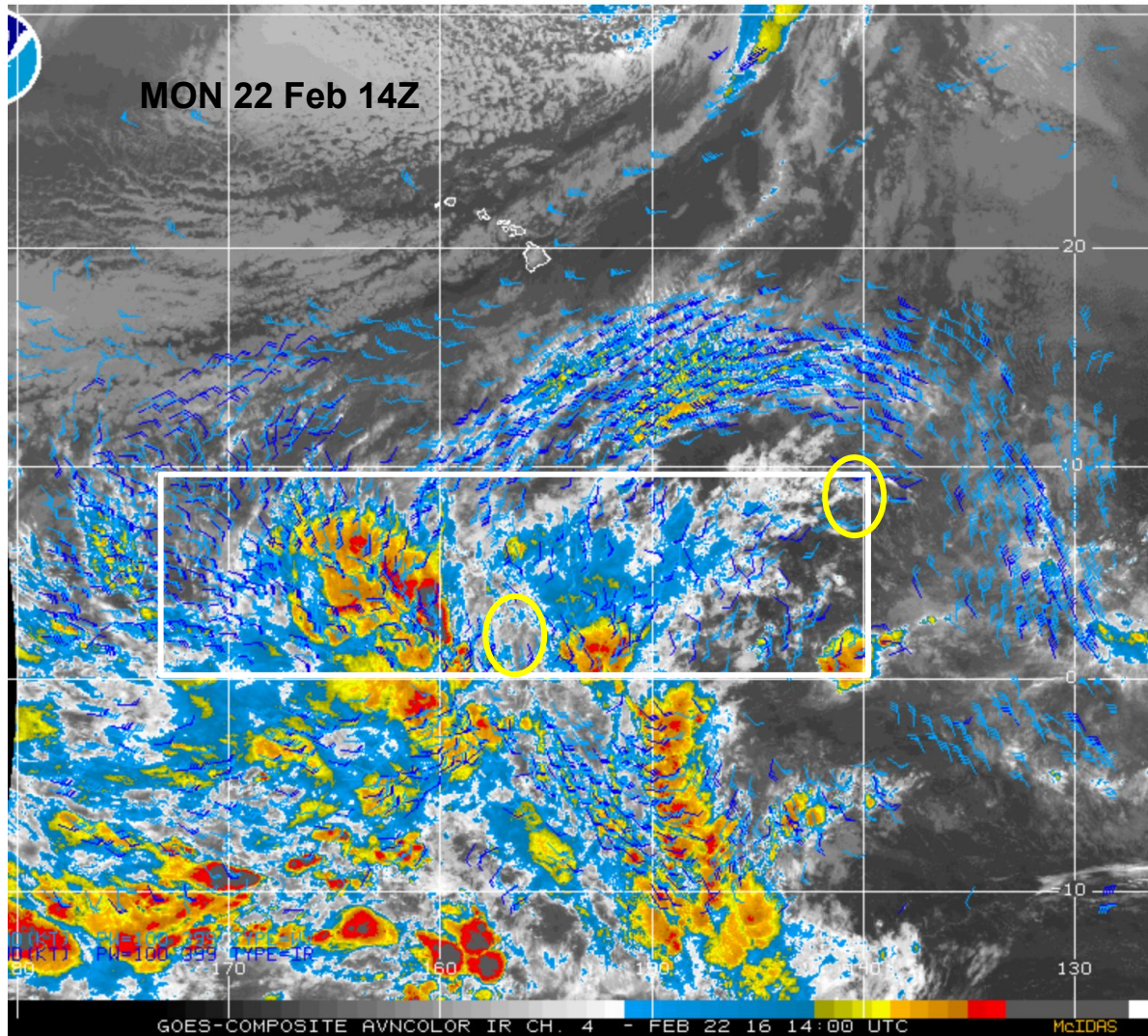
- EC model indicates Mon MCC near 160, 5N to remain the active element
- EC indicates much quieter convection in the region Tuesday

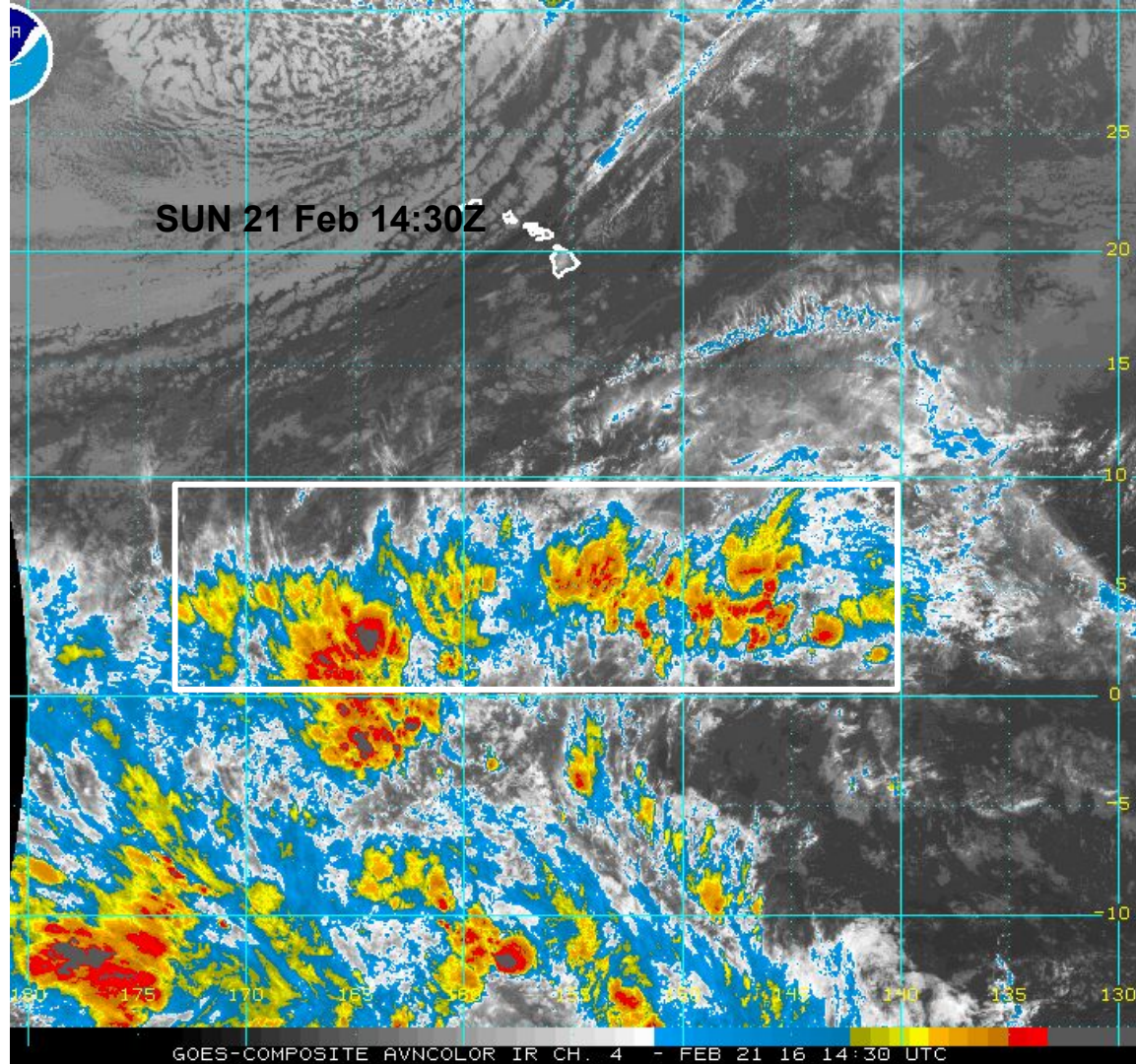
Midlatitude Conditions/Outlook

Short Term:

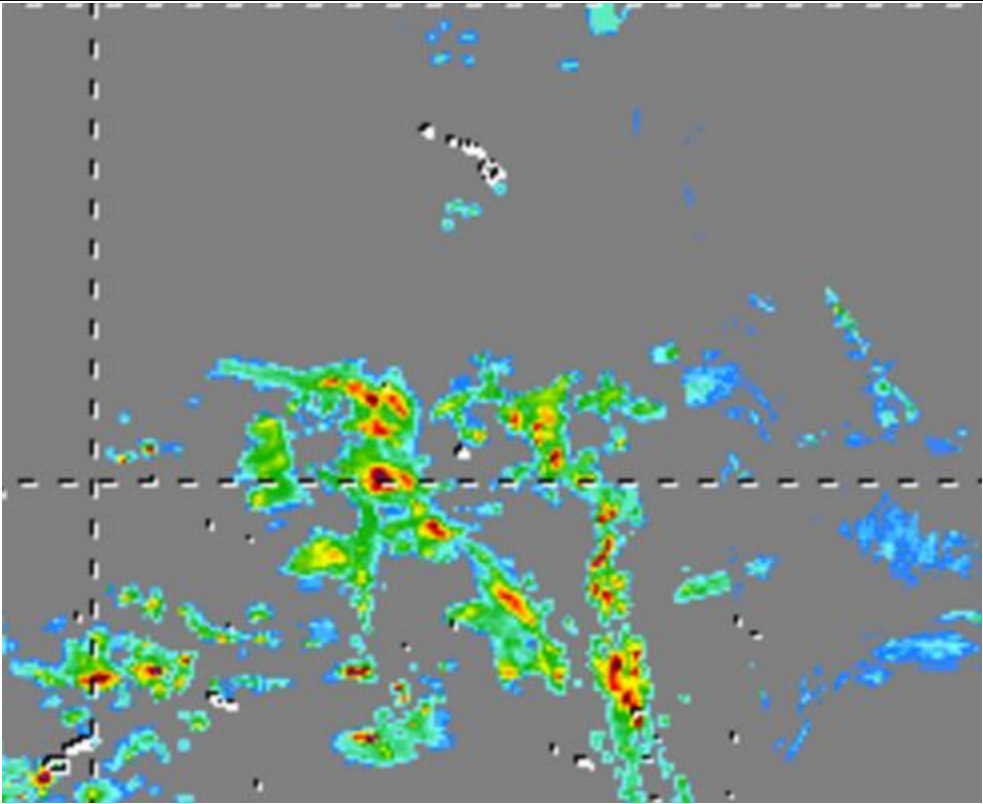
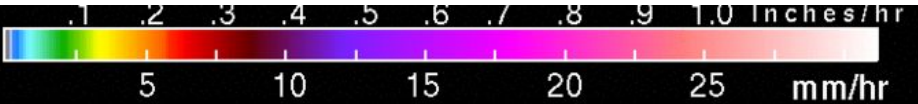
- CA quiet
- **Medium - Long Term:**
- Divergence among models for a possible CAL storm next weekend
 - EC suggesting central-southern CA may see precip next Sunday
 - No such indication in GFS
- No appreciable CA pcprn expected over the next 7-10 days
- Another east coast storm W-TH - bears watching
- Week 2-3 in EC and GFS indicate major change in the Pacific circulation

MON 22 Feb 14Z

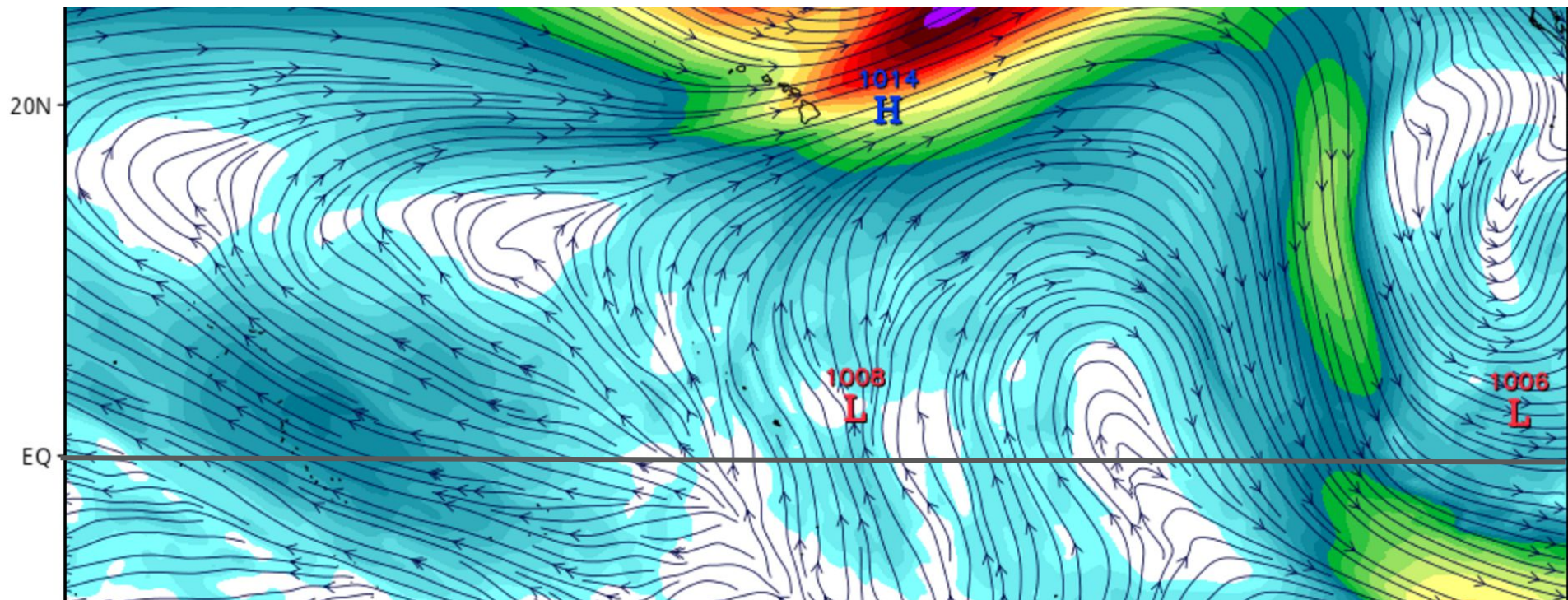




22 FEB 2016 0900 UTC

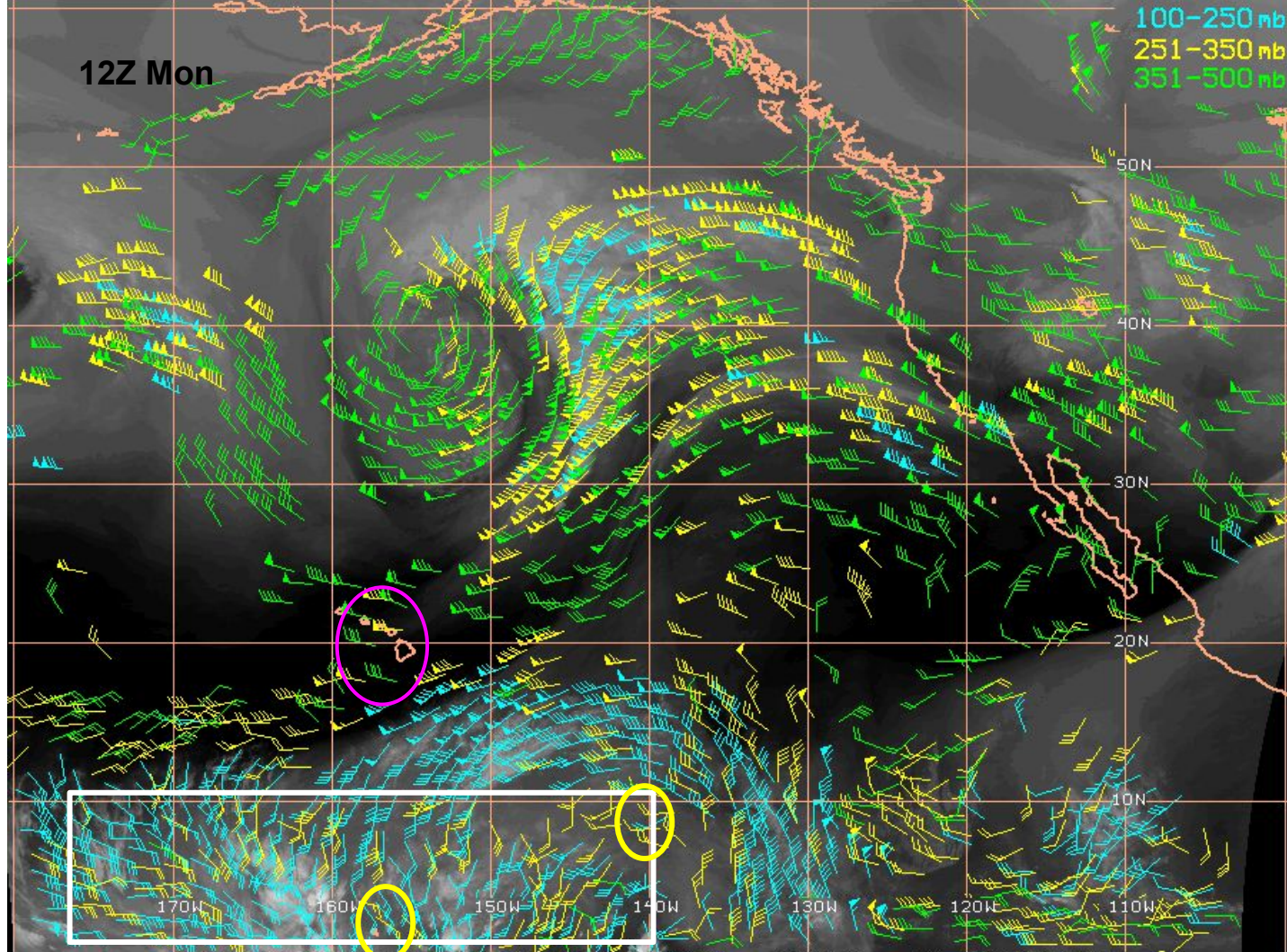


12Z Mon 22Feb GFS 200 mb: 6 Hr Fcst



12Z Mon

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



GOES-WEST MID-UPPER LEVEL WINDS

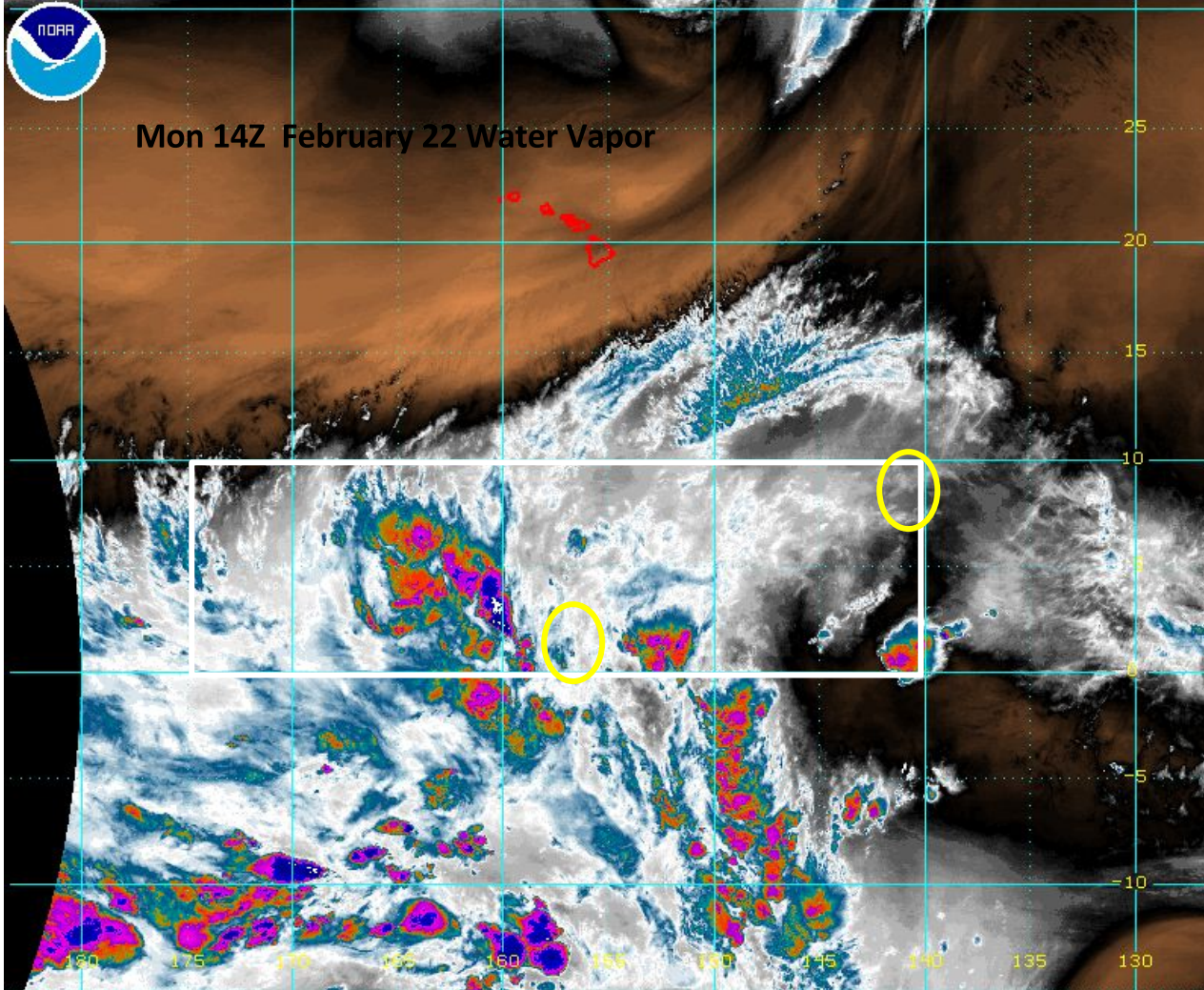
1200 UTC

22FEB16

UW-CIMSS/NESDIS

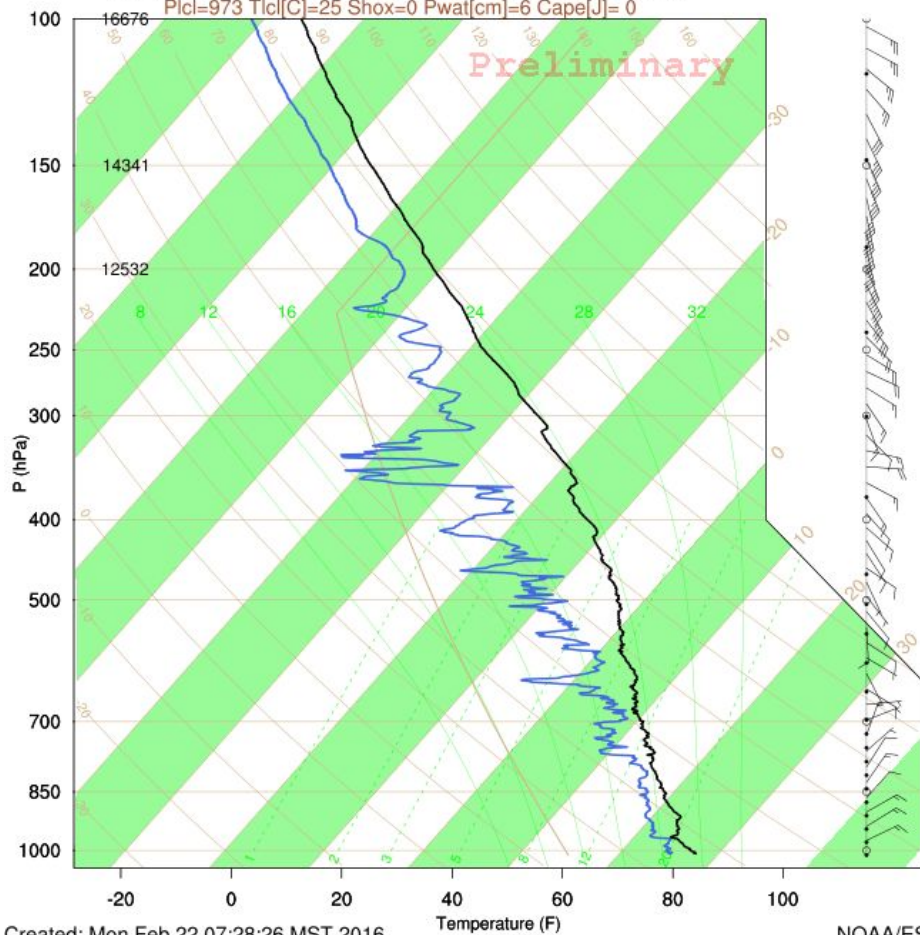


Mon 14Z February 22 Water Vapor



Kiritimati Is: 02/22/2016 1126Z 2.01N 157.40W

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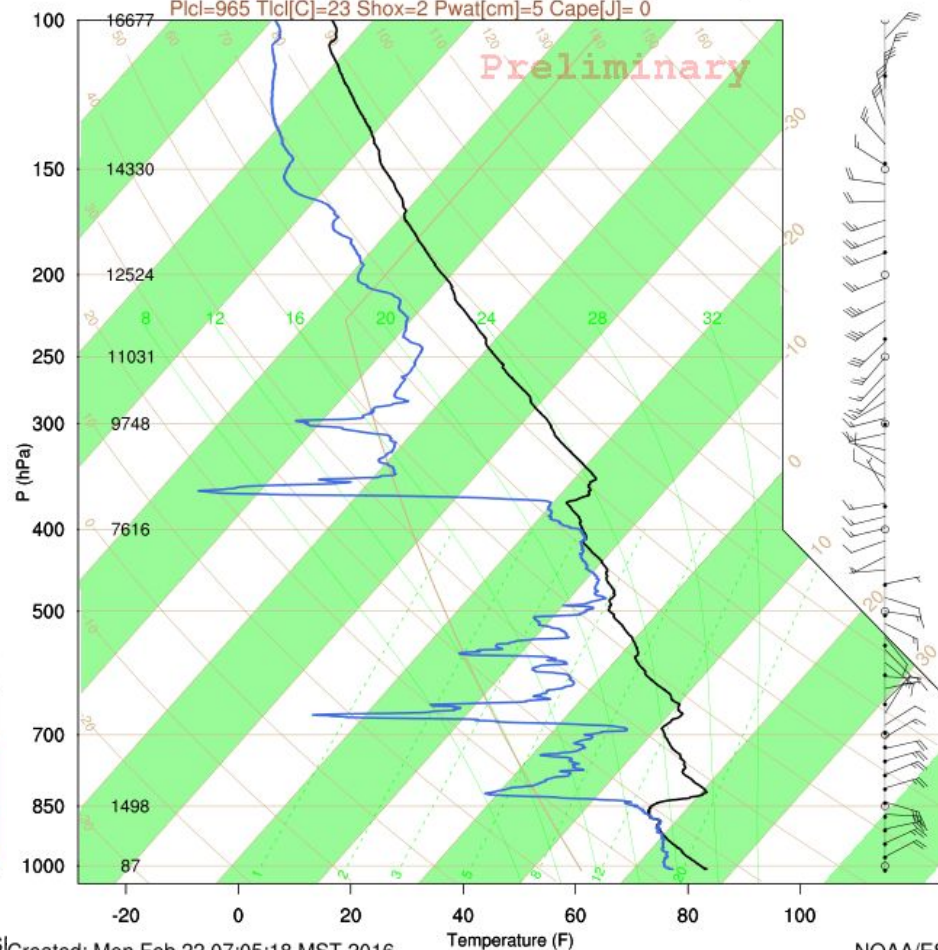


Created: Mon Feb 22 07:28:26 MST 2016

NOAA/ESR

Ronald H. Brown: 02/22/2016 1112Z (8.95N,140.19W)

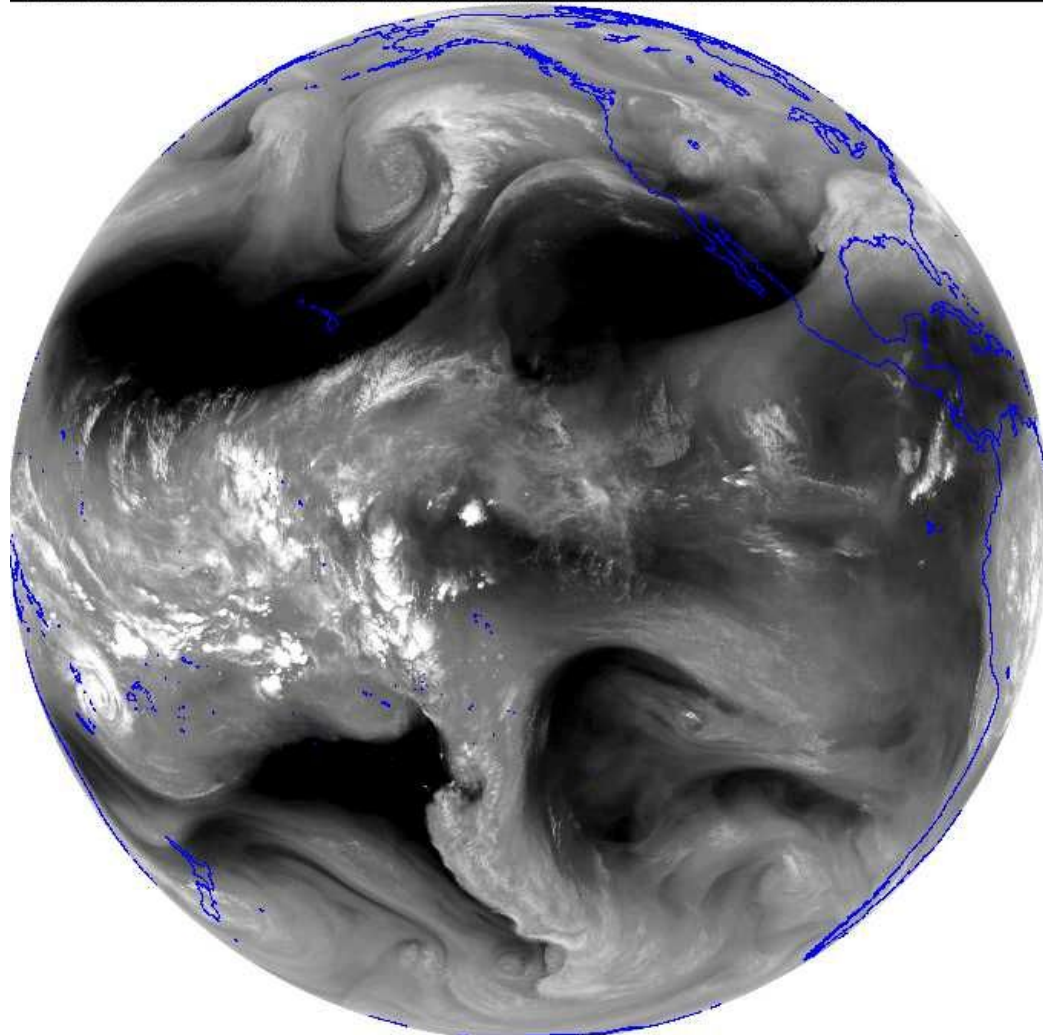
Ptcl=965 Tlcl[C]=23 Shox=2 Pwat[cm]=5 Cape[J]= 0



Created: Mon Feb 22 07:05:18 MST 2016

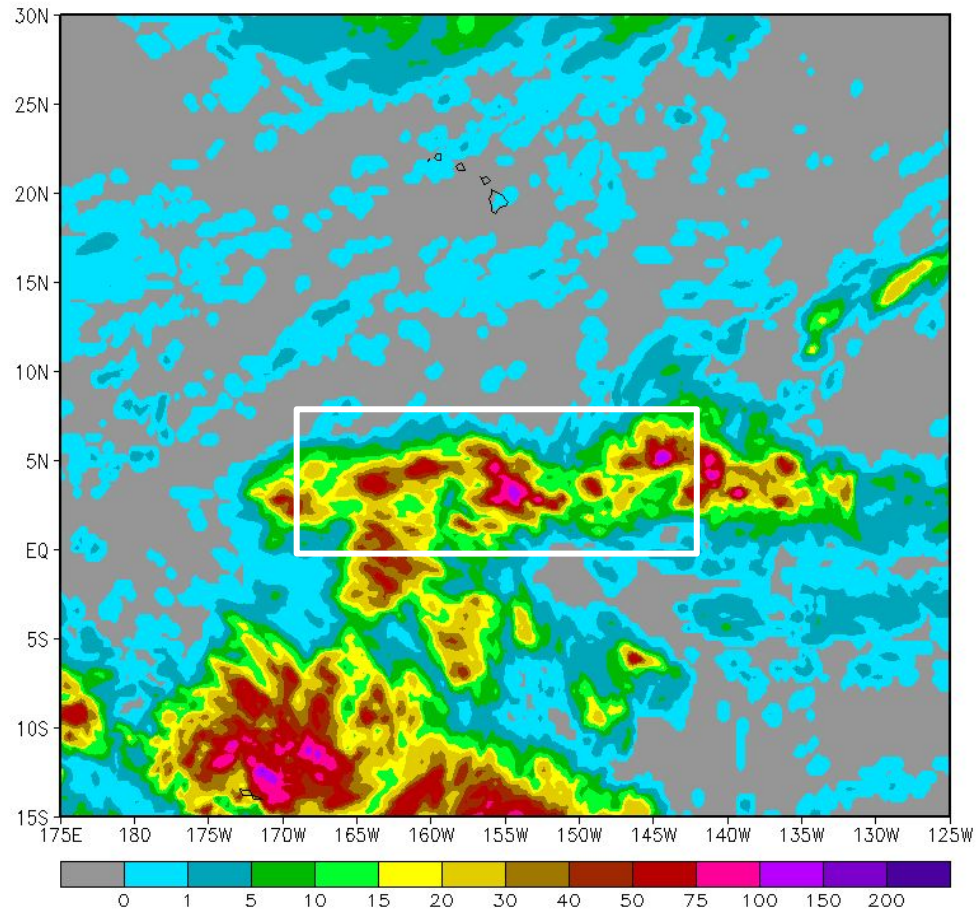
NOAA/ESR P

MON 12Z IR



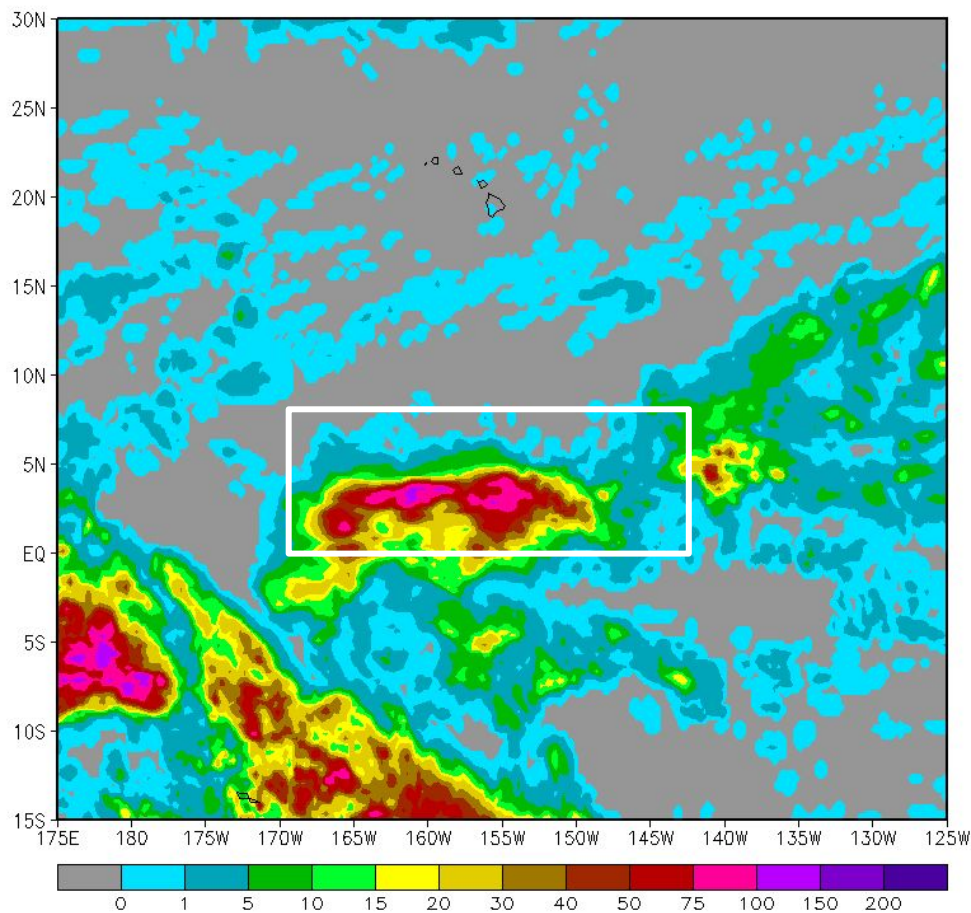
CMORPH 24 HR Precip Ending 21 Feb 12Z

CMORPH 24-hour Rainfall Accumulation (mm)
(20Feb2016 12Z - 21Feb2016 12Z)



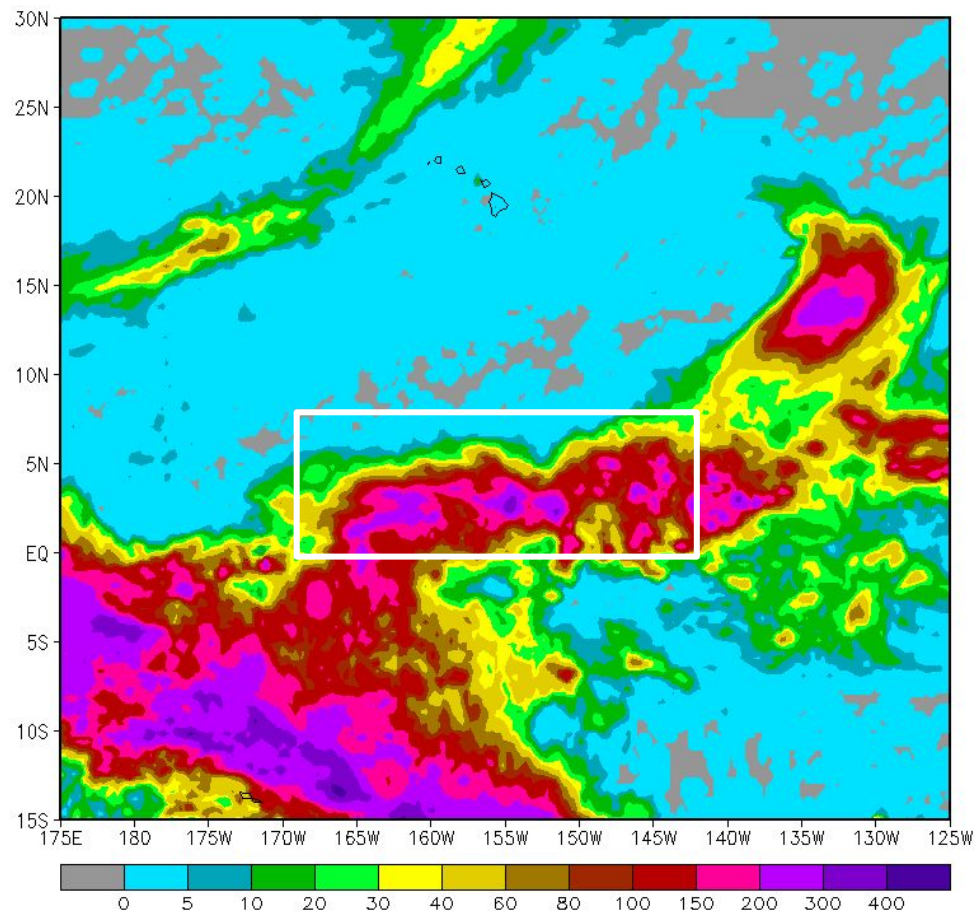
CMORPH 24 HR Precip Ending 20 Feb 12Z

CMORPH 24-hour Rainfall Accumulation (mm)
(19Feb2016 12Z – 20Feb2016 12Z)

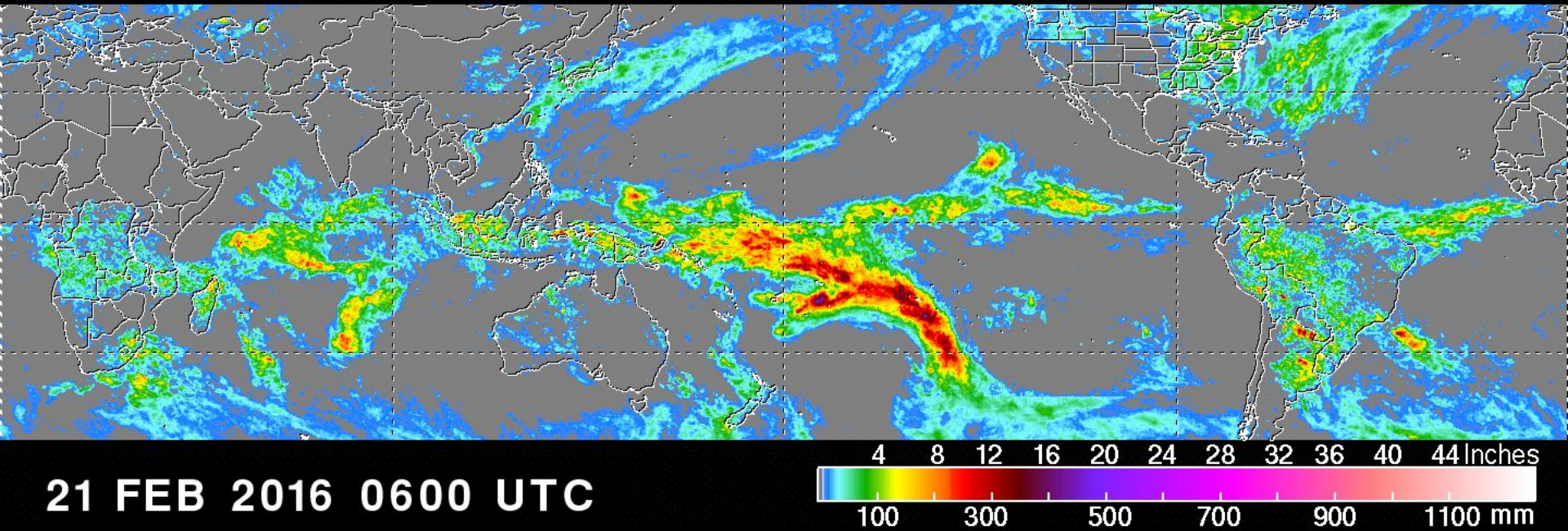


CMORPH 7 Da Precip Ending 21 Feb 12Z

CMORPH 7-day Rainfall Accumulation (mm)
(14Feb2016 12Z – 21Feb2016 12Z)



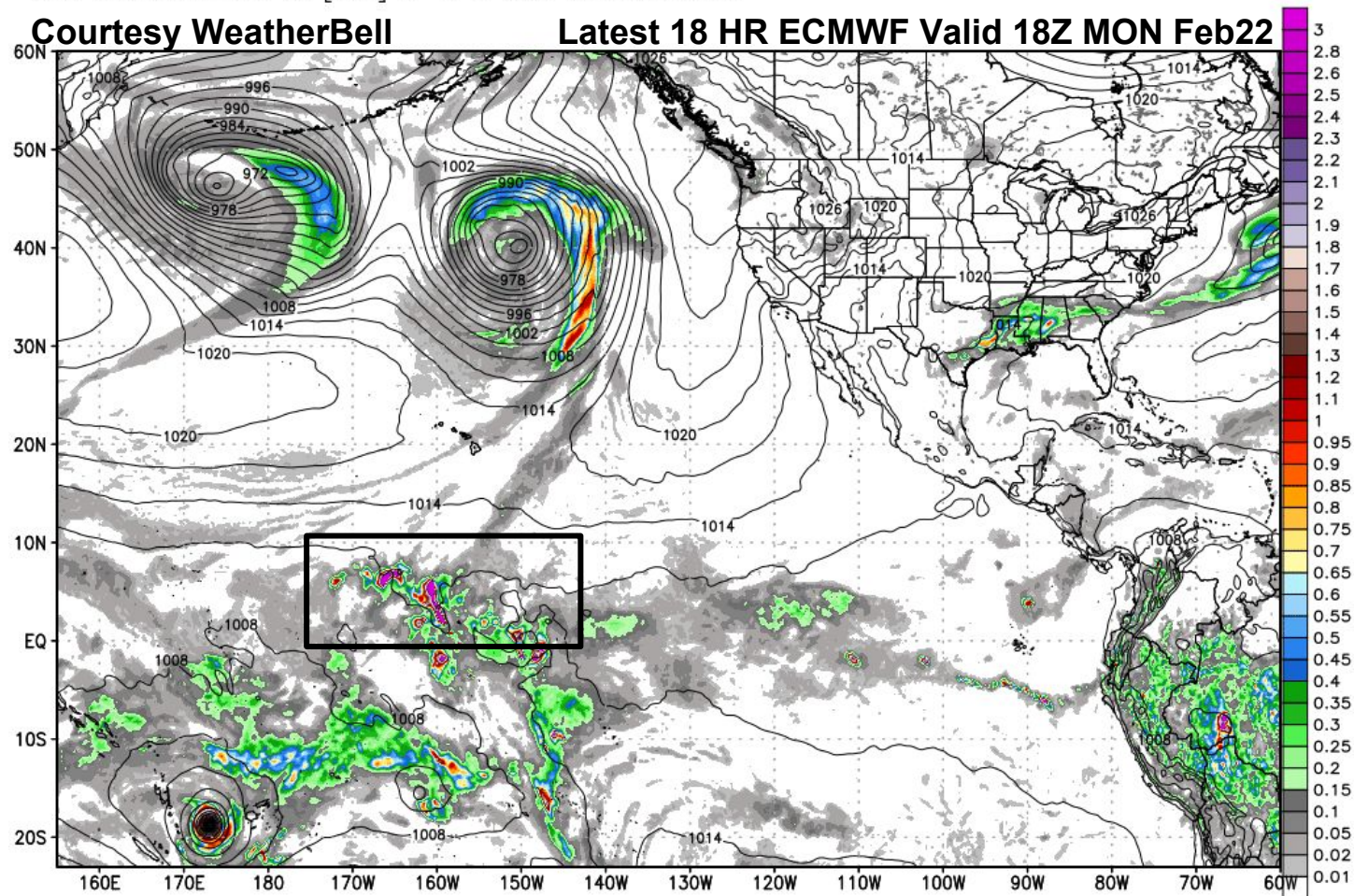
GPM 7 Day Accumulation Ending 06Z 21 Feb



ECMWF 6-hourly Precipitation [inches] between 12Z22FEB2016 -- 18Z22FEB2016 & MSLP [hPa]
INIT: 00Z22FEB2016 fx: [018] hr --> Mon 18Z22FEB2016

Courtesy WeatherBell

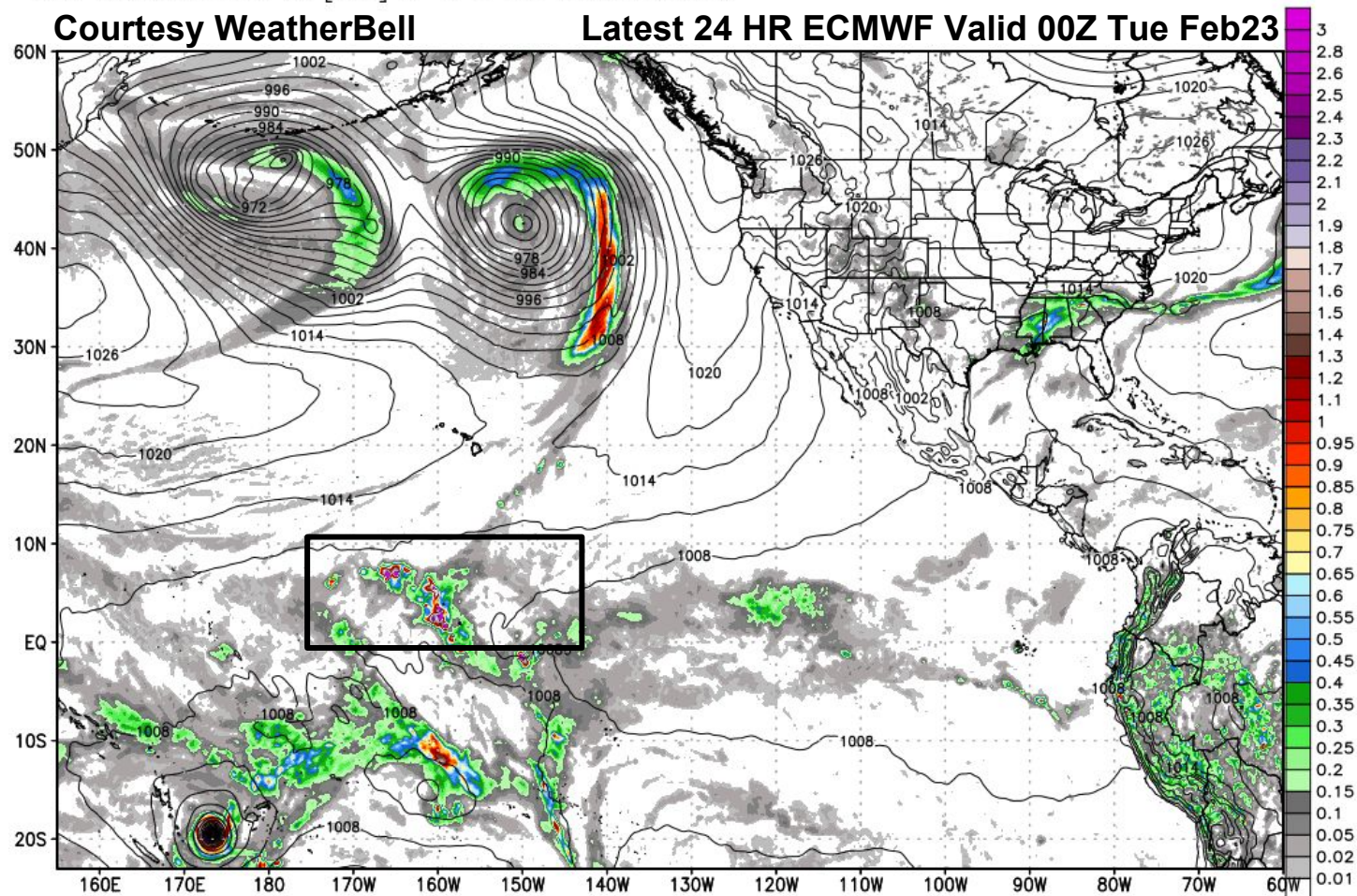
Latest 18 HR ECMWF Valid 18Z MON Feb22



ECMWF 6-hourly Precipitation [inches] between 18Z22FEB2016 -- 00Z23FEB2016 & MSLP [hPa]
INIT: 00Z22FEB2016 fx: [024] hr --> Tue 00Z23FEB2016

Courtesy WeatherBell

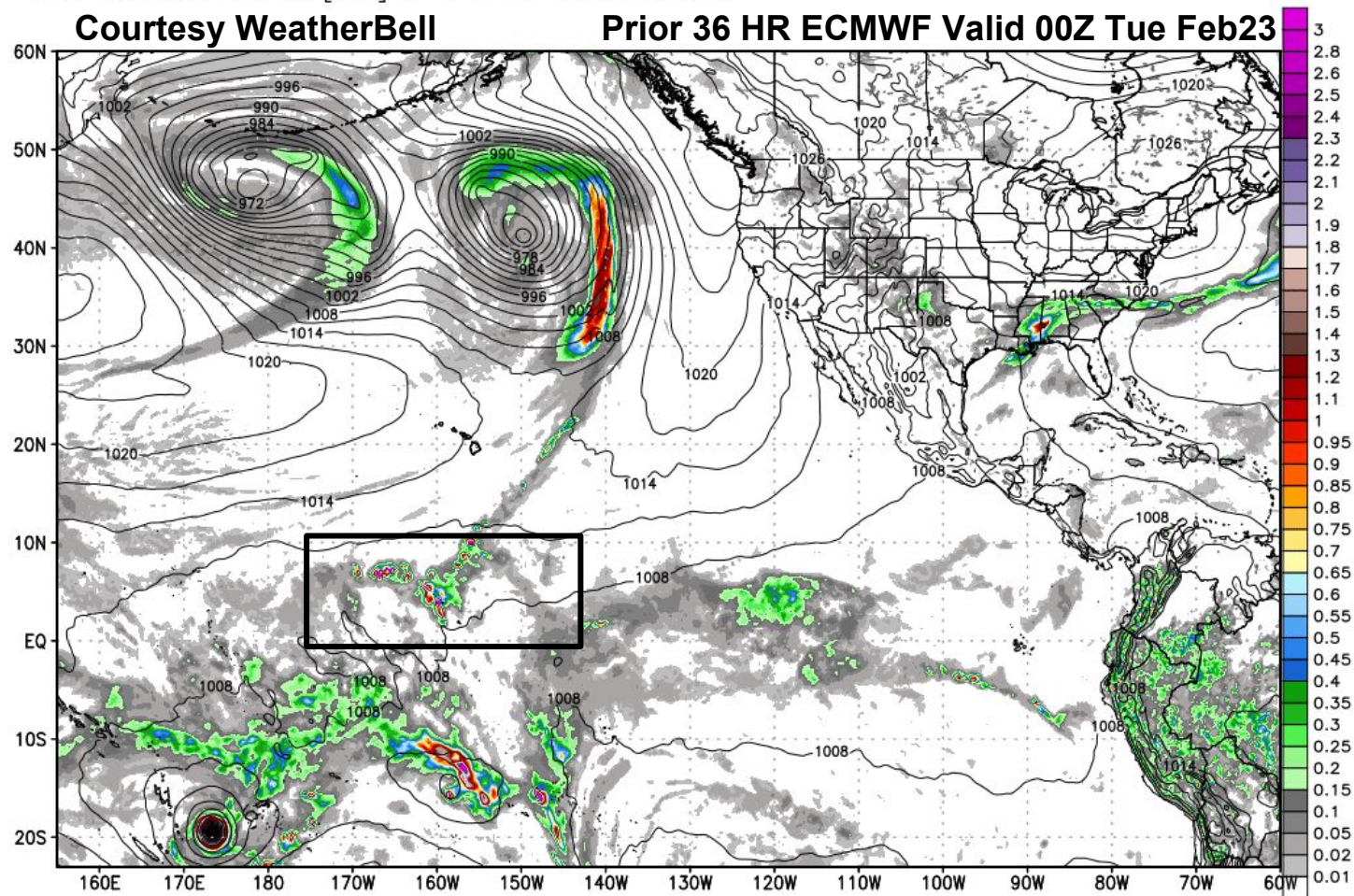
Latest 24 HR ECMWF Valid 00Z Tue Feb23



ECMWF 6-hourly Precipitation [inches] between 18Z22FEB2016 -- 00Z23FEB2016 & MSLP [hPa]
INIT: 12Z21FEB2016 fx: [036] hr --> Tue 00Z23FEB2016

Courtesy WeatherBell

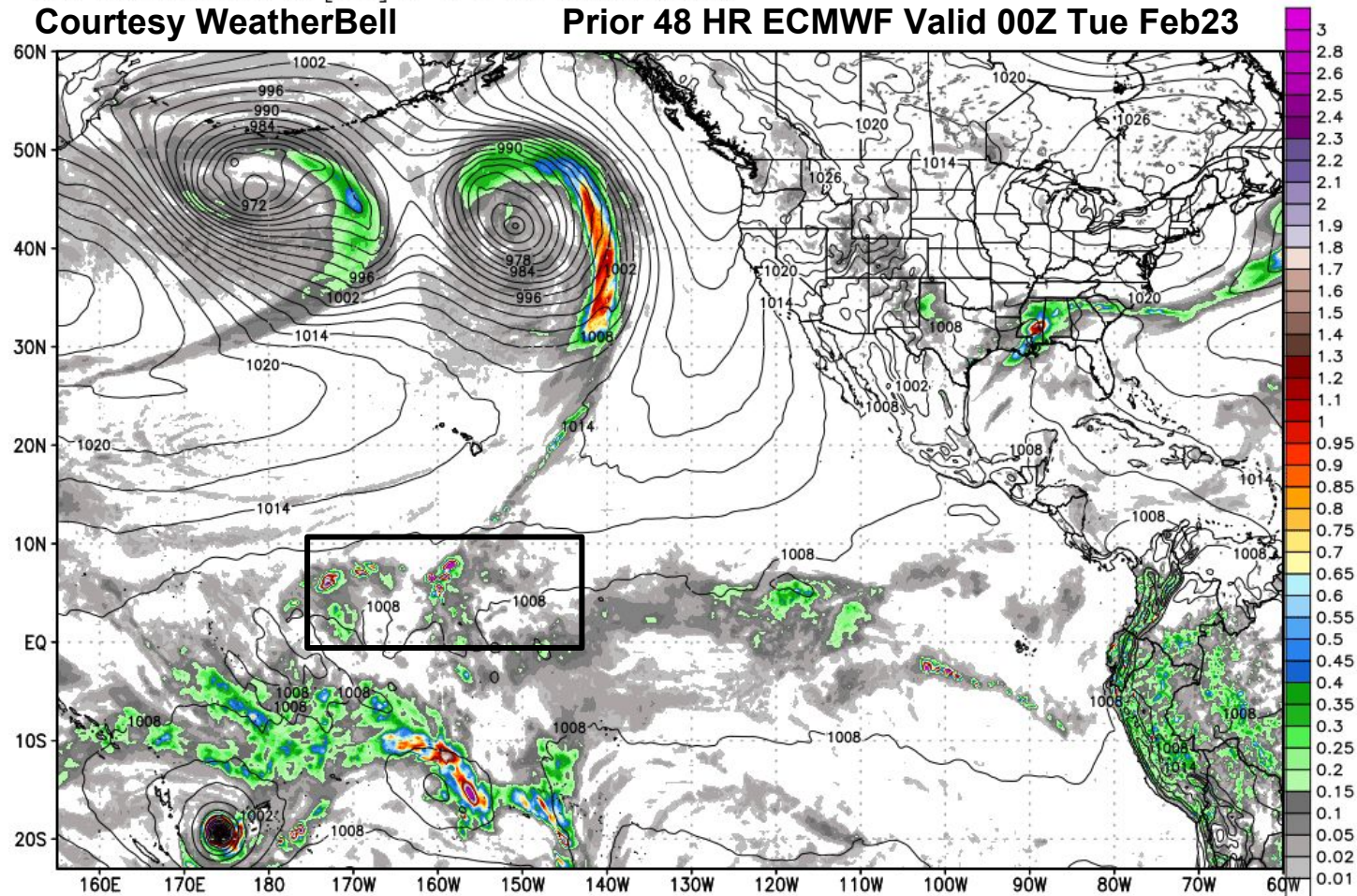
Prior 36 HR ECMWF Valid 00Z Tue Feb23



ECMWF 6-hourly Precipitation [inches] between 18Z22FEB2016 -- 00Z23FEB2016 & MSLP [hPa]
INIT: 00Z21FEB2016 fx: [048] hr --> Tue 00Z23FEB2016

Courtesy WeatherBell

Prior 48 HR ECMWF Valid 00Z Tue Feb23



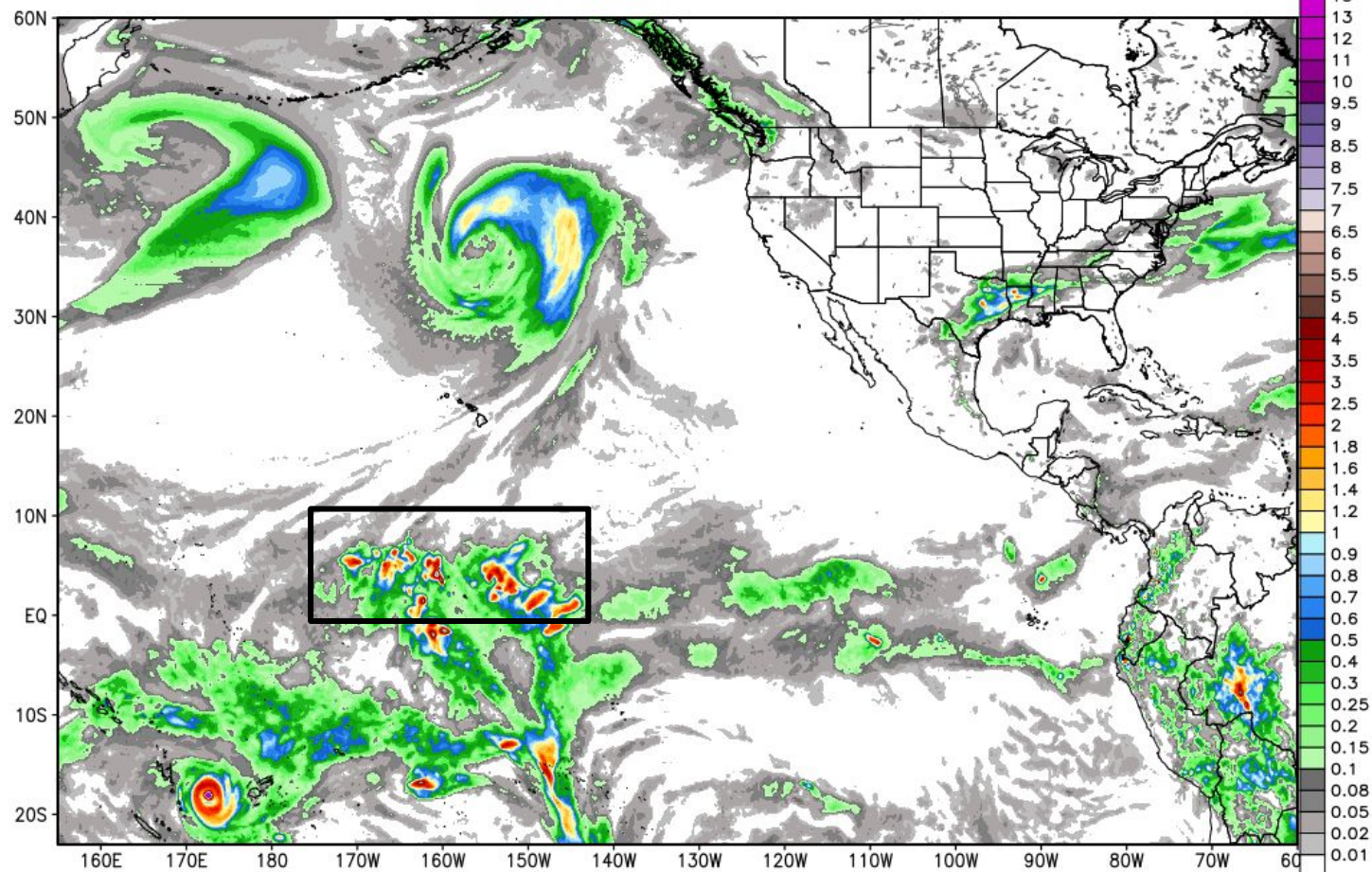
ECMWF Total Precipitation [inches] between 00Z22FEB2016 -- 12Z22FEB2016

INIT: 00Z22FEB2016 fx: [012] hr --> Mon 12Z22FEB2016

Max 18.0 in

Total PCPN

Latest 12 HR GFS END 12Z MON Feb22

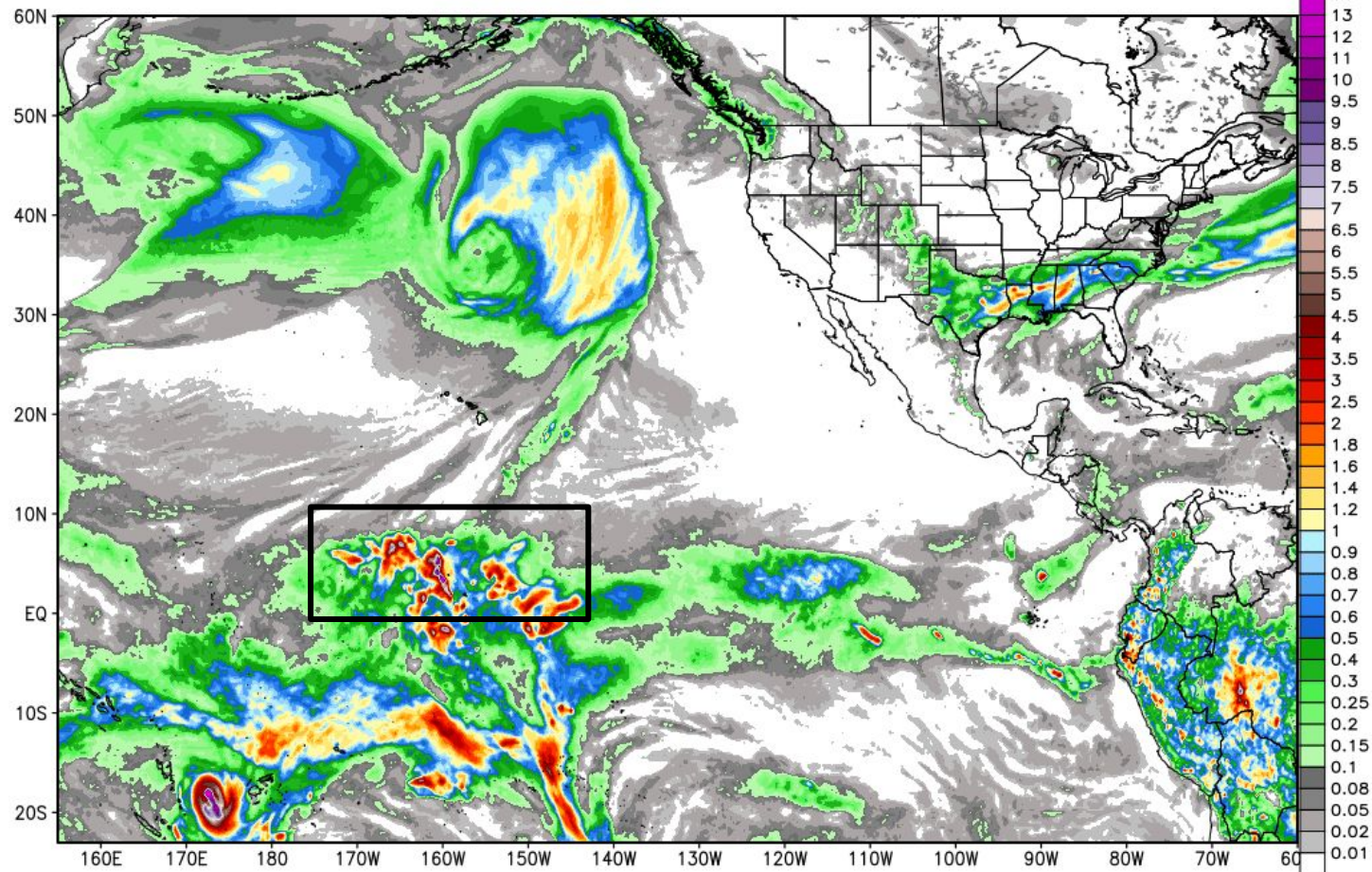


ECMWF Total Precipitation [inches] between 00Z22FEB2016 -- 06Z23FEB2016
INIT: 00Z22FEB2016 fx: [030] hr --> Tue 06Z23FEB2016

Max 21.4 in

Total PCPN

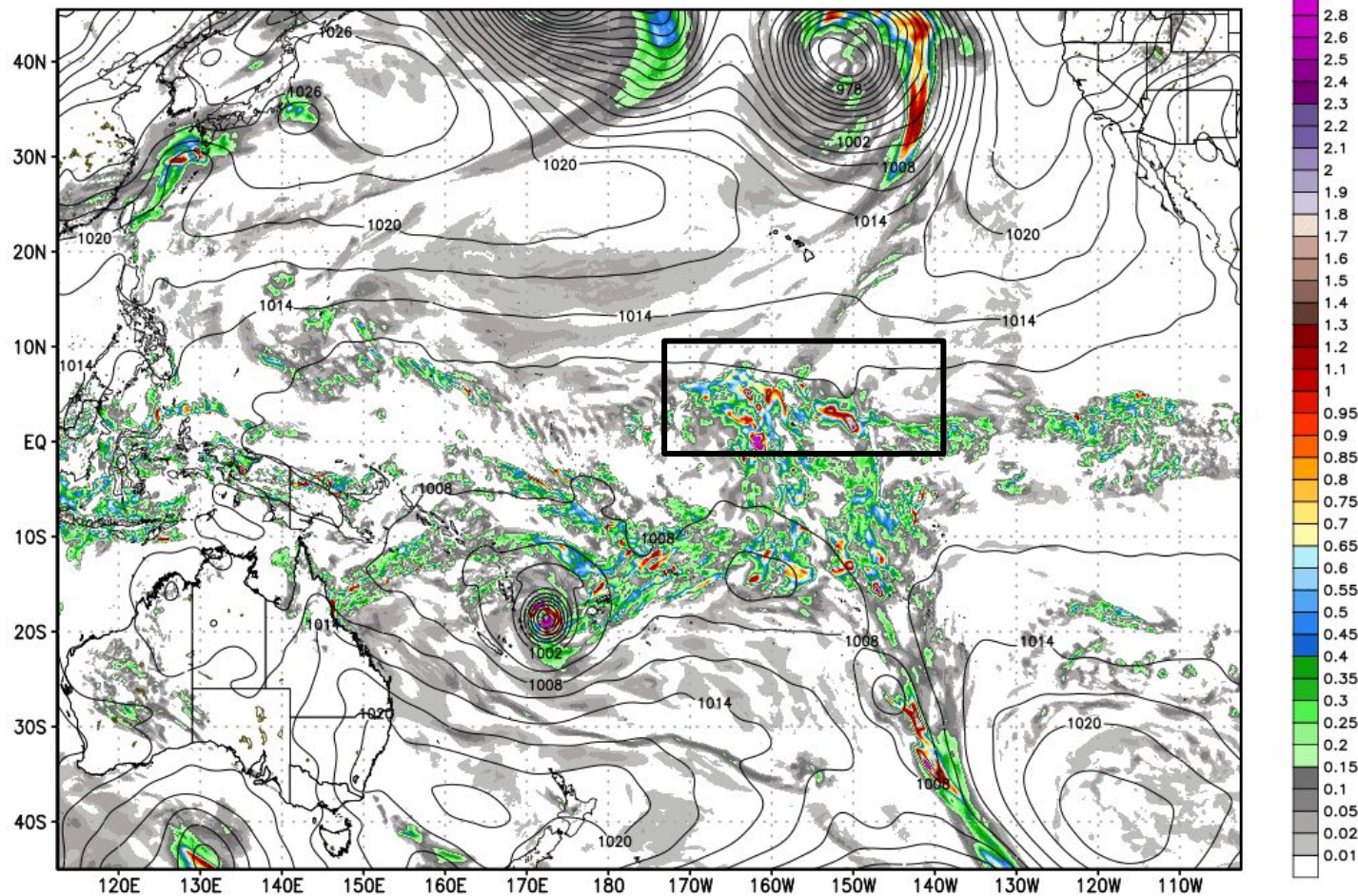
Latest 30 HR GFS END 06Z TUE Feb23



NCEP GFS 6-hourly Precipitation [inch] & MSLP [hPa]
INIT: 12Z22FEB2016 fx: [006] hr --> Mon 18Z22FEB2016

Max: 6.6 in.

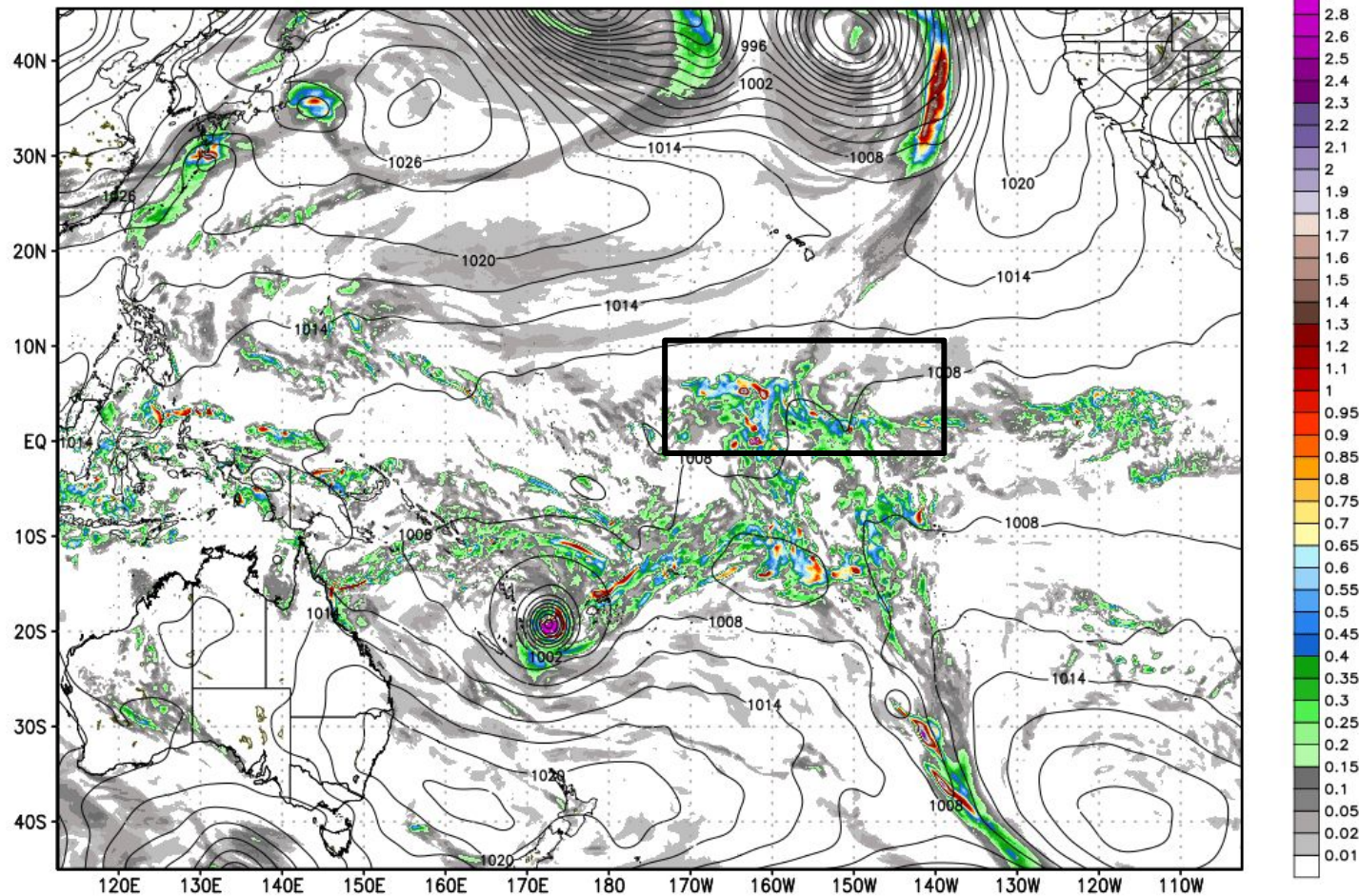
GFS 6HR Valid 18Z MON 22 Feb



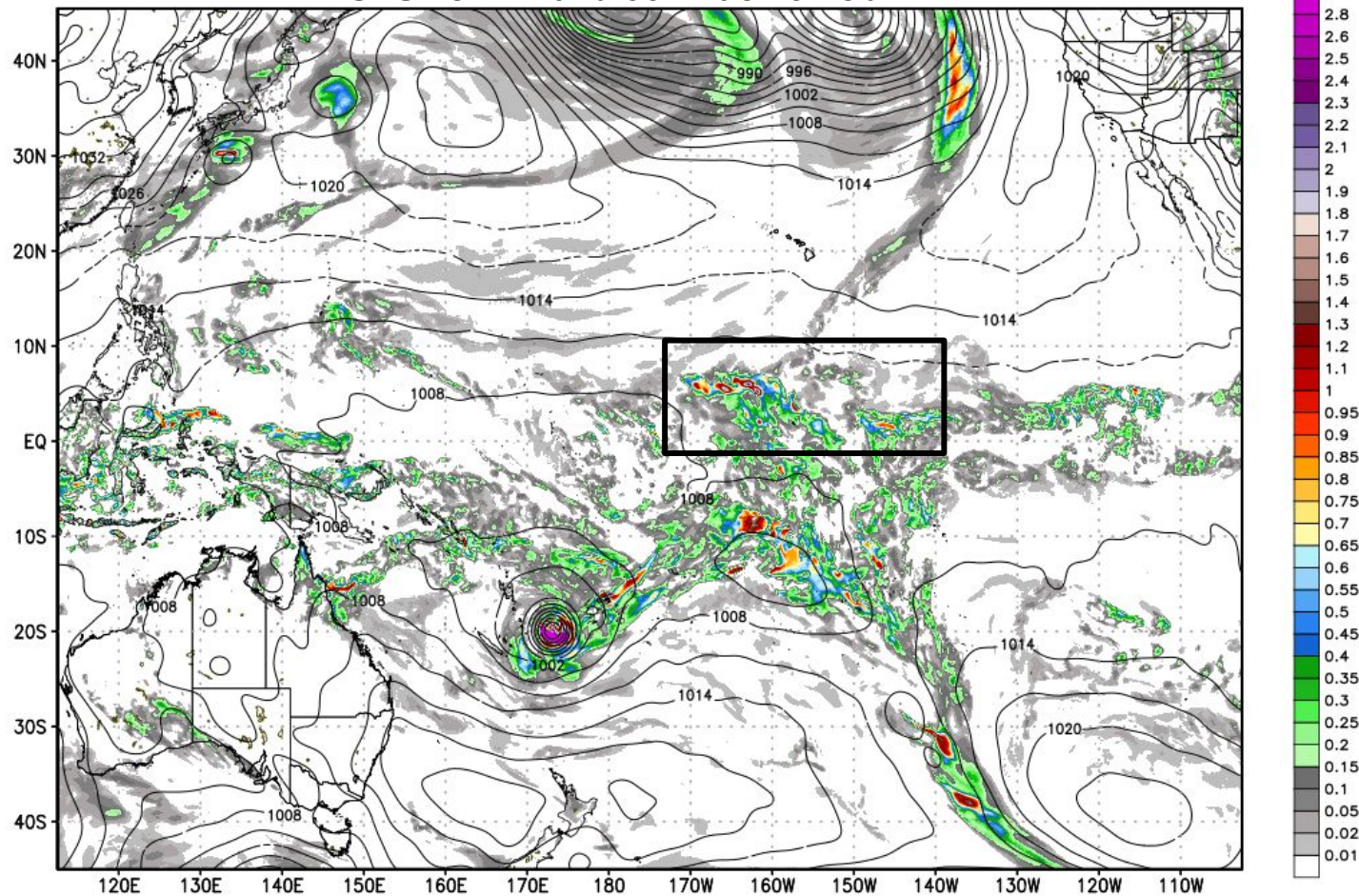
NCEP GFS 6-hourly Precipitation [inch] & MSLP [hPa]
INIT: 12Z22FEB2016 fx: [012] hr --> Tue 00Z23FEB2016

Max: 5.9 in.

GFS 12HR Valid 00Z Tue 23 Feb



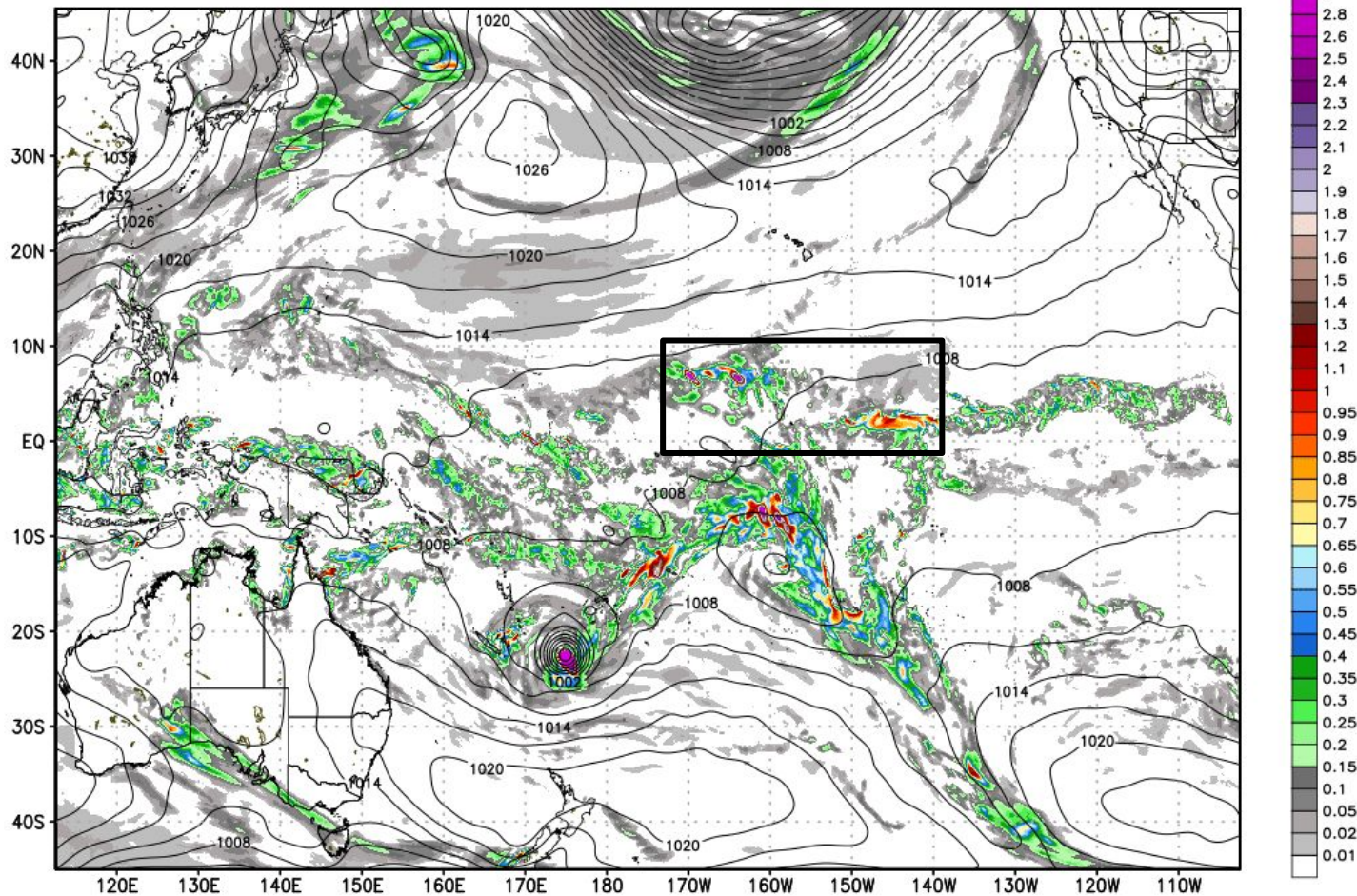
GFS 18HR Valid 06Z Tue 23 Feb



NCEP GFS 6-hourly Precipitation [inch] & MSLP [hPa]
INIT: 12Z22FEB2016 fx: [036] hr --> Wed 00Z24FEB2016

Max: 11.7 in.

GFS 36HR Valid 00Z WED 24 Feb

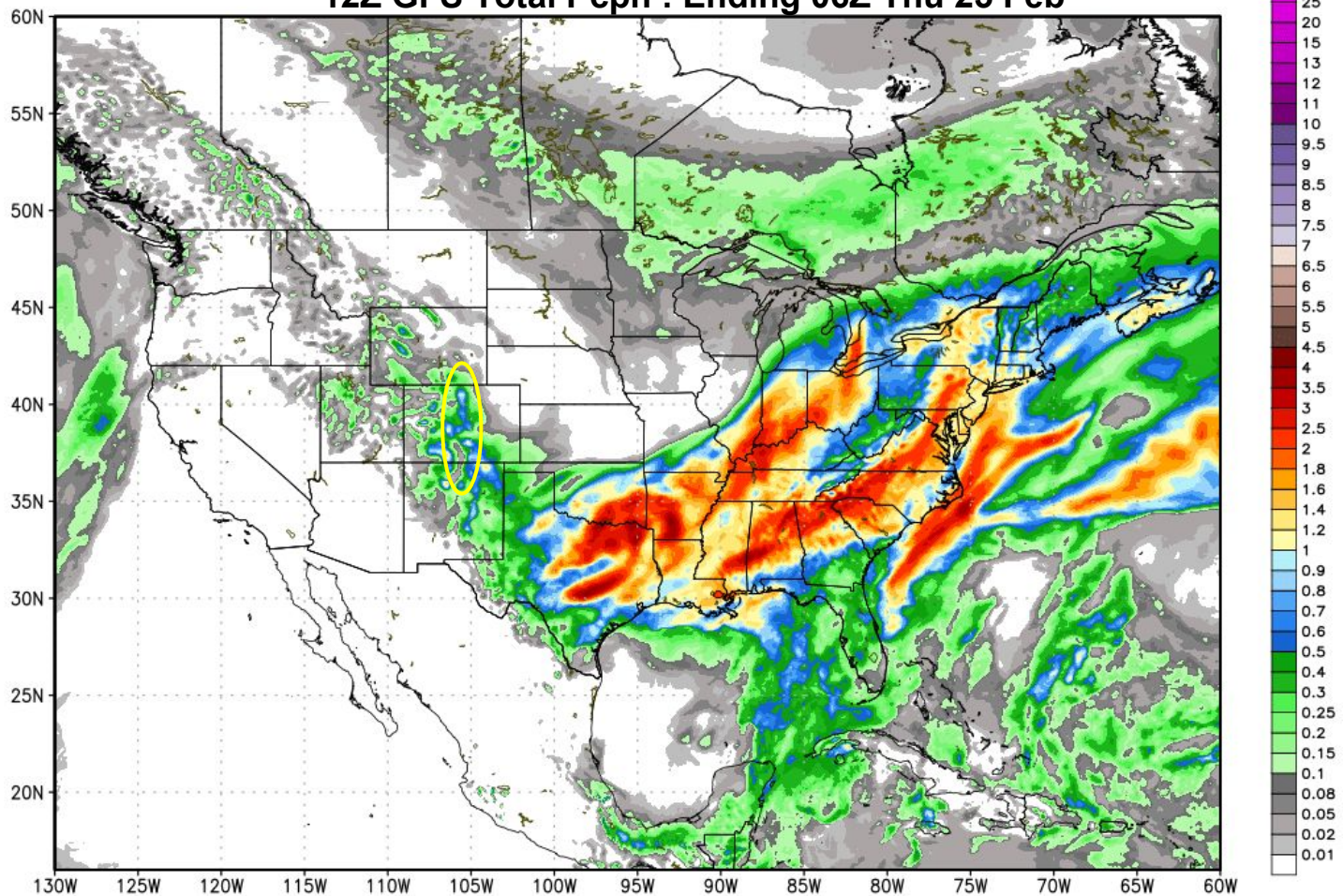


NCEP GFS Accum Precip [inch]

INIT: 12Z22FEB2016 fx: [066] hr --> Thu 06Z25FEB2016

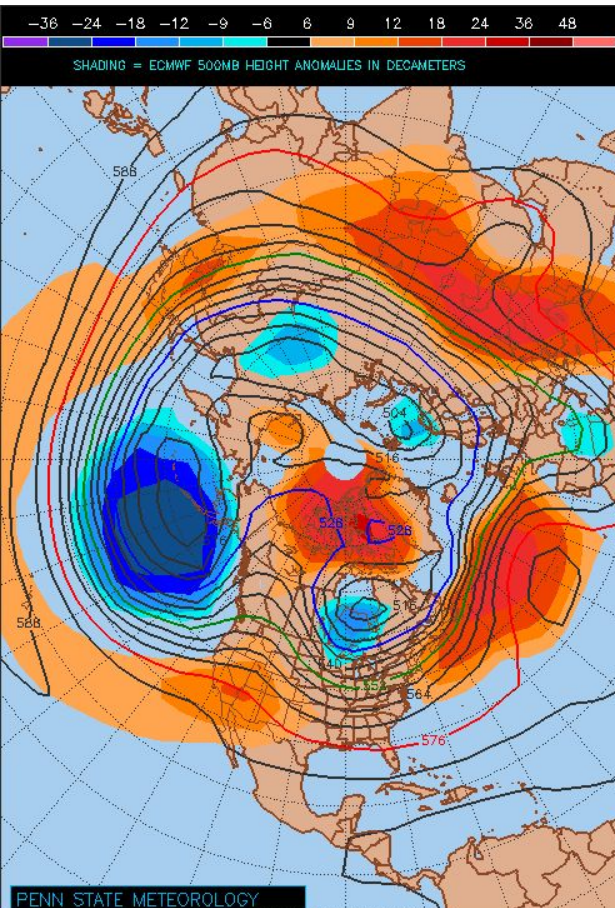
Max: 4.3 in.

12Z GFS Total Pcpn : Ending 06Z Thu 25 Feb

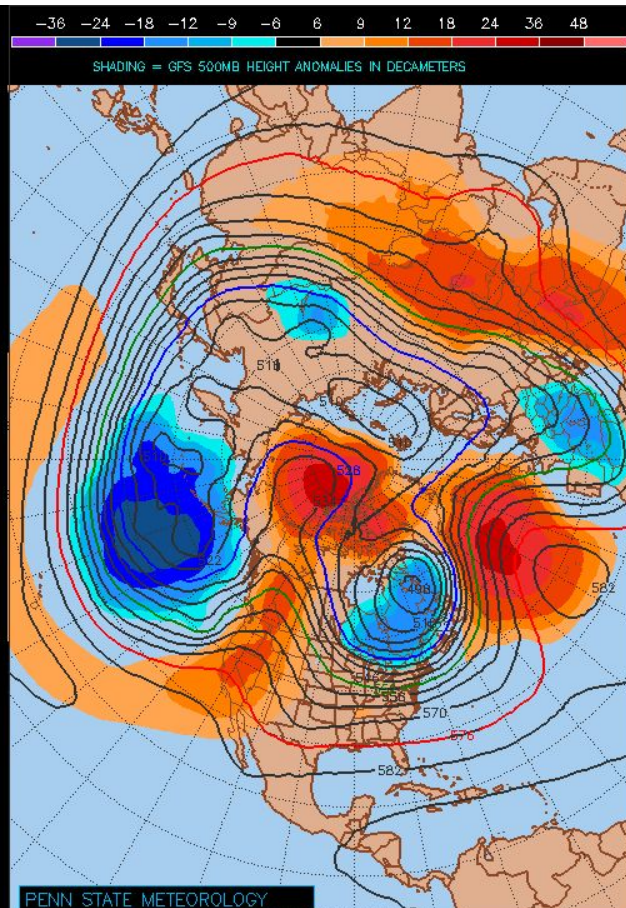


Medium - Long Range Forecast

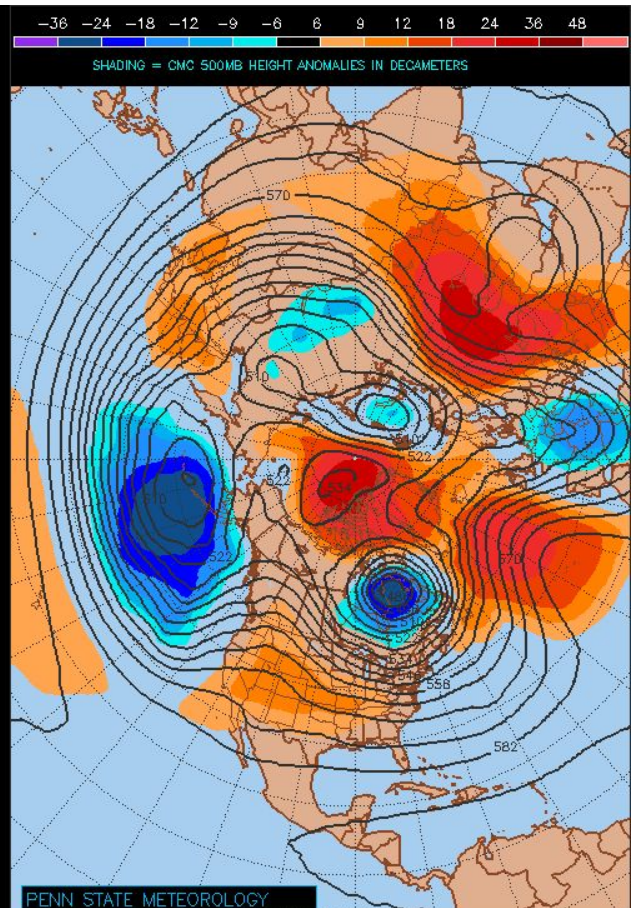
Day 7-10 Initialized 00Z SAT 20 Feb



ECMWF 168-240 HR MEAN 500MB HGT
ENDING TIME = THU 160300/0000Z240 SUN 080301/0000V000
INITIAL TIME = 160222/0000F240



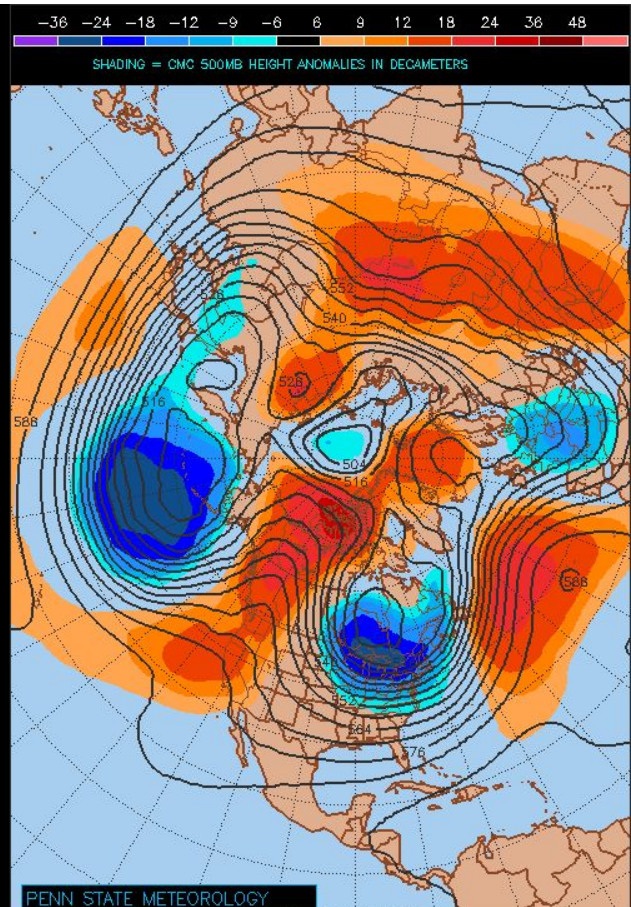
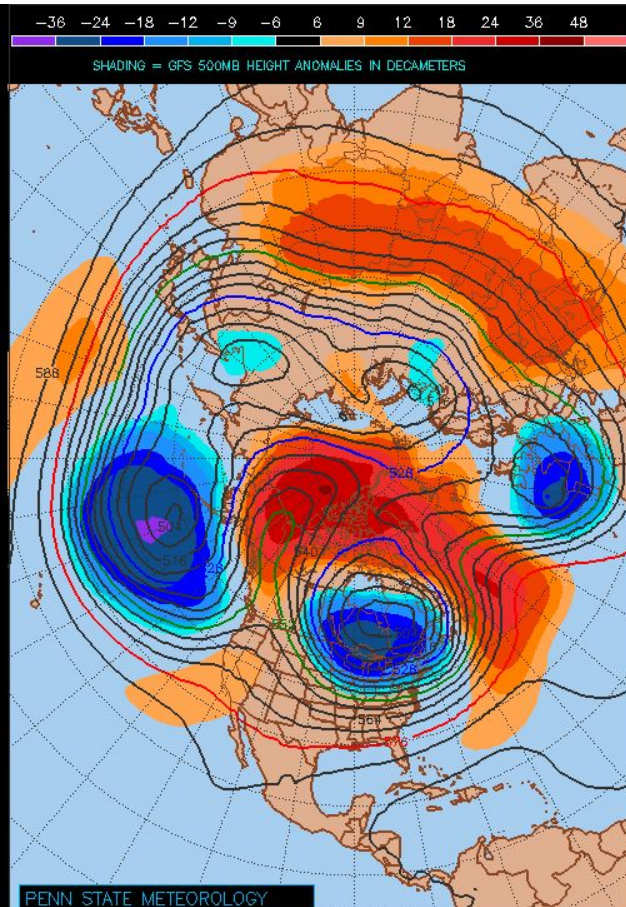
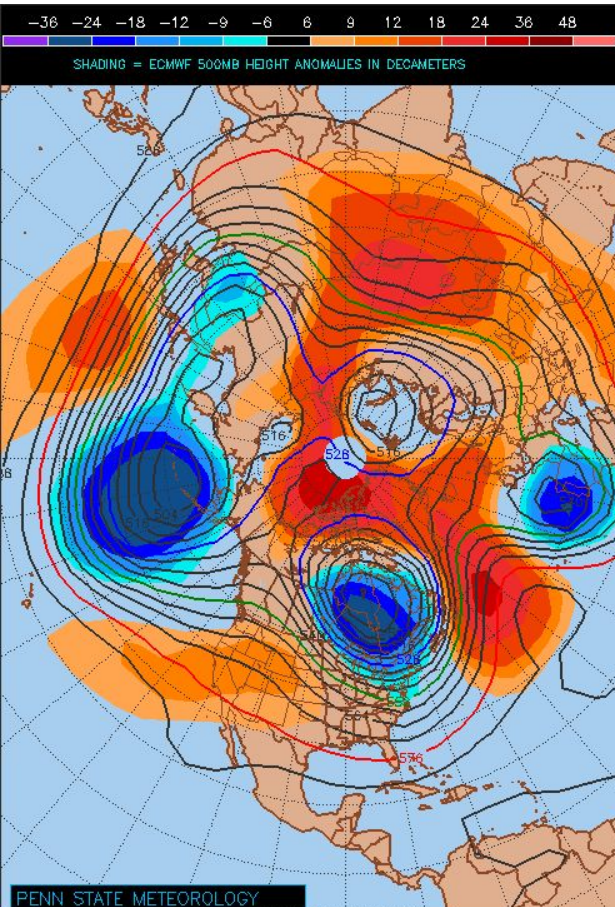
GFS 168-240 HR MEAN 500MB HGT



CMC 168-240 HR MEAN 500MB HGT

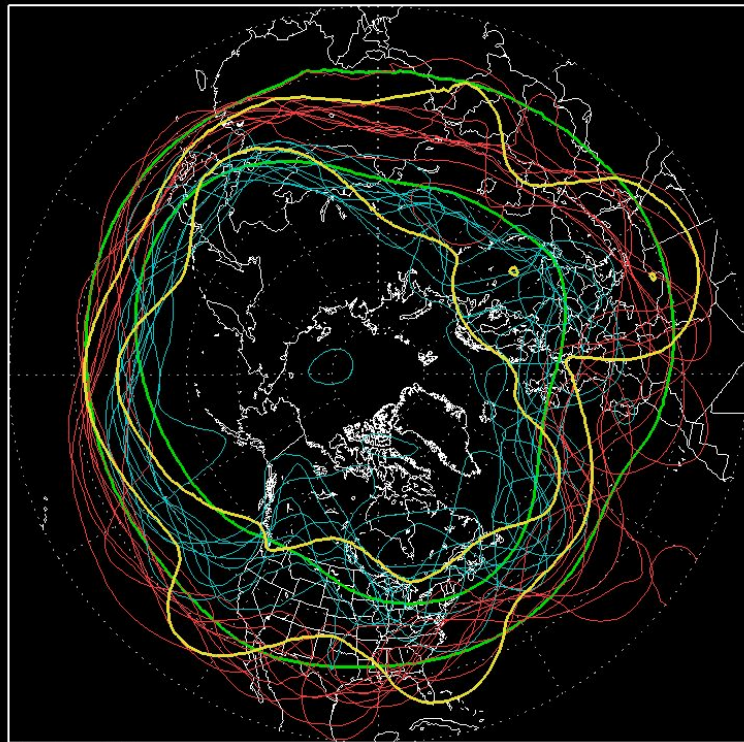
Medium - Long Range Forecast

Day 7-10 Initialized 00Z MON 22 Feb



500mb HEIGHT SPAG, ESRL/PSD

360H Forecast from: 00Z Sat FEB 20 2016
Valid time: 00Z Sun MAR 06 2016

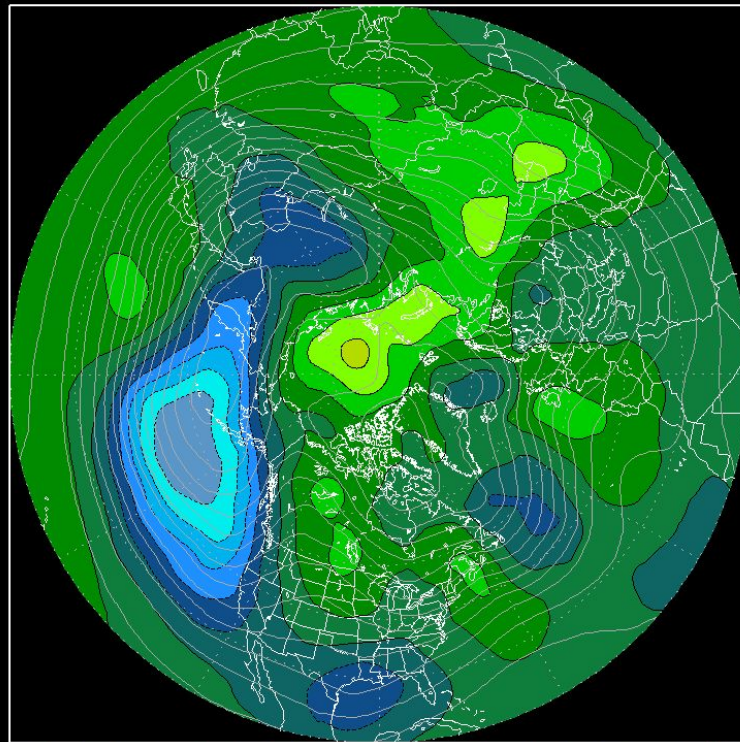


00z Runs:(11)

— 5460m — 5700m — Control 00z — CLIM

500mb HEIGHT ANOMALY(m), ESRL/PSD

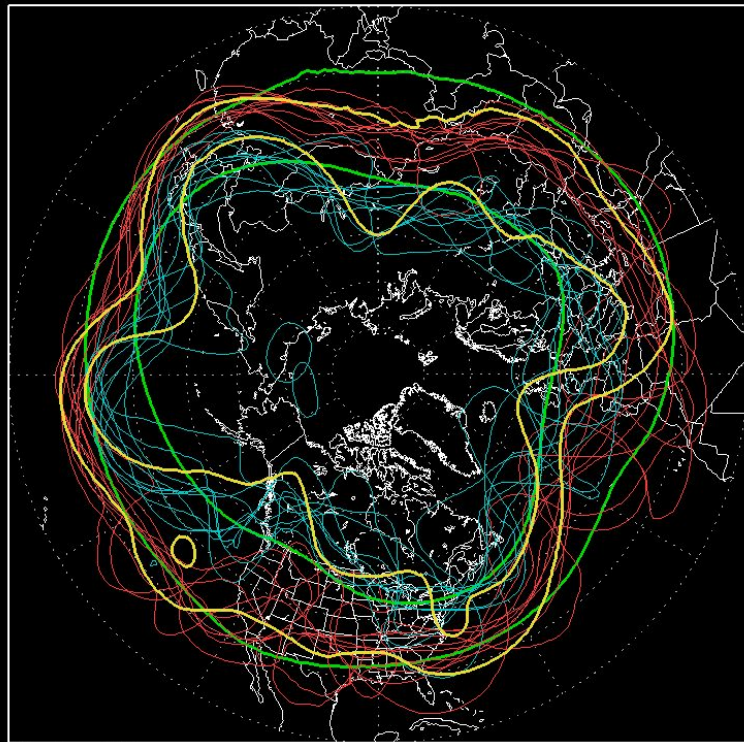
360H Forecast from: 00Z Sat FEB 20 2016
Valid time: 00Z Sun MAR 06 2016



-360 -280 -200 -120 -40 40 120 200 280 360

500mb HEIGHT SPAG, ESRL/PSD

312H Forecast from: 00Z Mon FEB 22 2016
Valid time: 00Z Sun MAR 06 2016

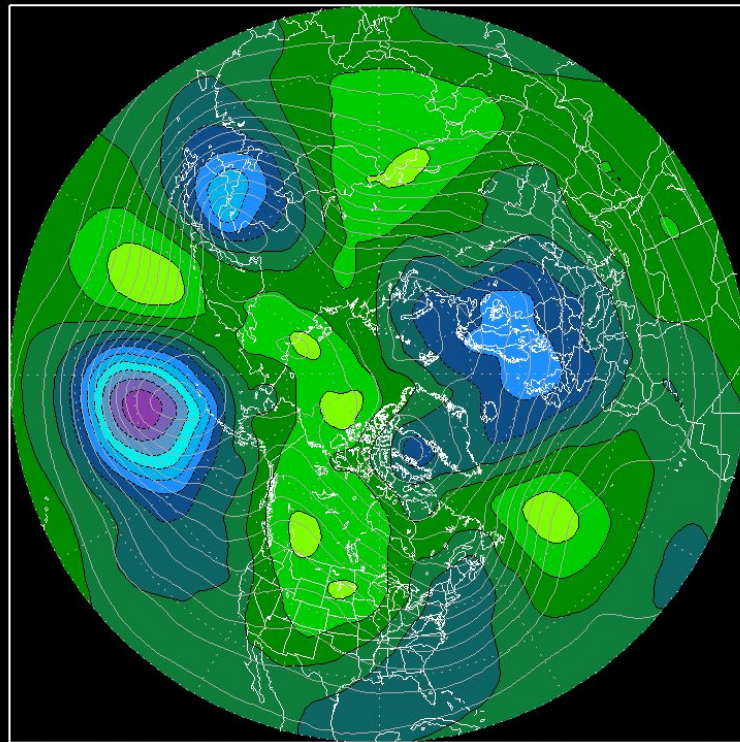


00z Runs:(11)

— 5460m — 5700m — Control 00z — CLIM

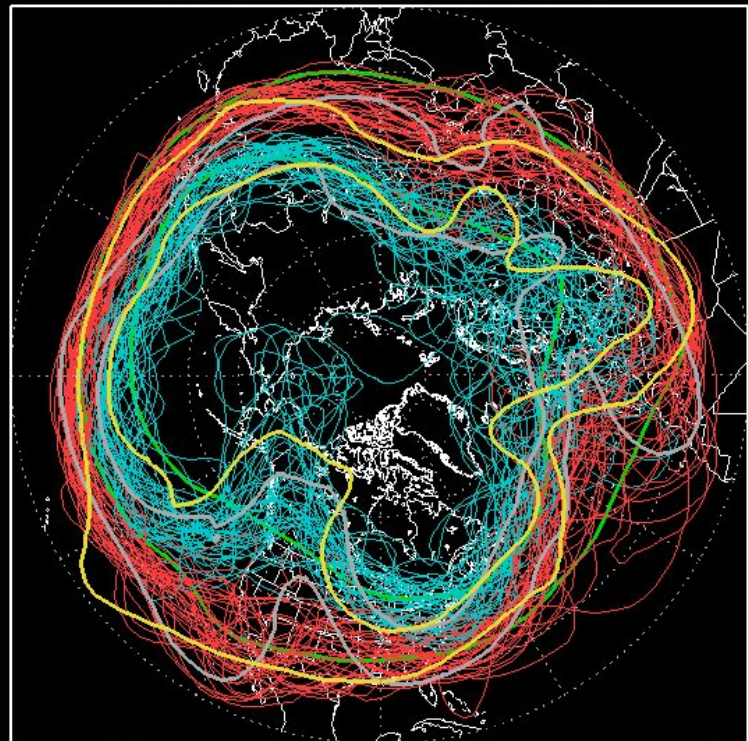
500mb HEIGHT ANOMALY(m), ESRL/PSD

312H Forecast from: 00Z Mon FEB 22 2016
Valid time: 00Z Sun MAR 06 2016



NCEP ENSEMBLE 500mb Z

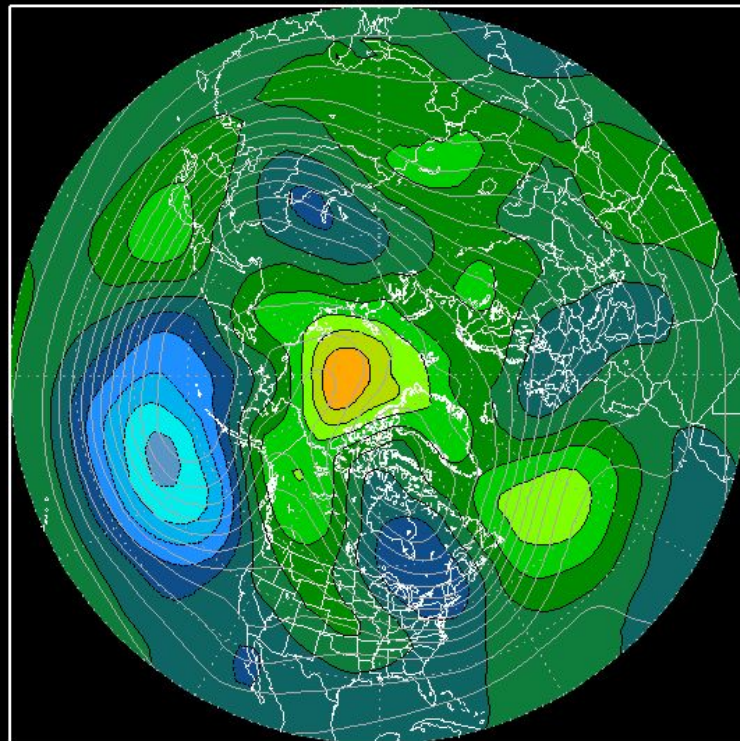
312H Forecast from: 00Z Mon FEB,22 2016
Valid time: 00Z Sun MAR,06 2016



00z Runs:(21) 12z Runs:(21)
— 5460m — 5700m — Cntrl 00z — Cntrl 12z — CLIM

NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

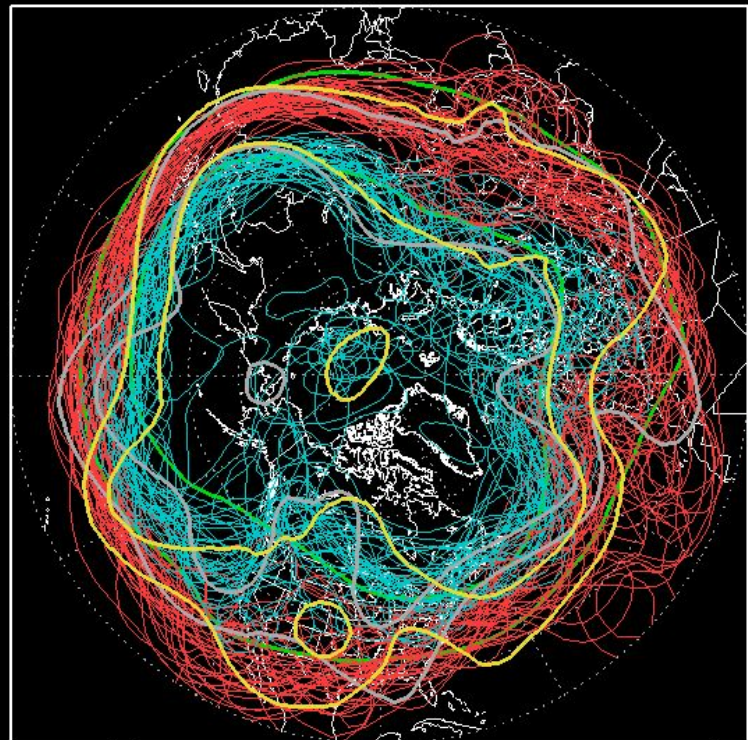
312H Forecast from: 00Z Mon FEB,22 2016
Valid time: 00Z Sun MAR,06 2016



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NCEP ENSEMBLE 500mb Z

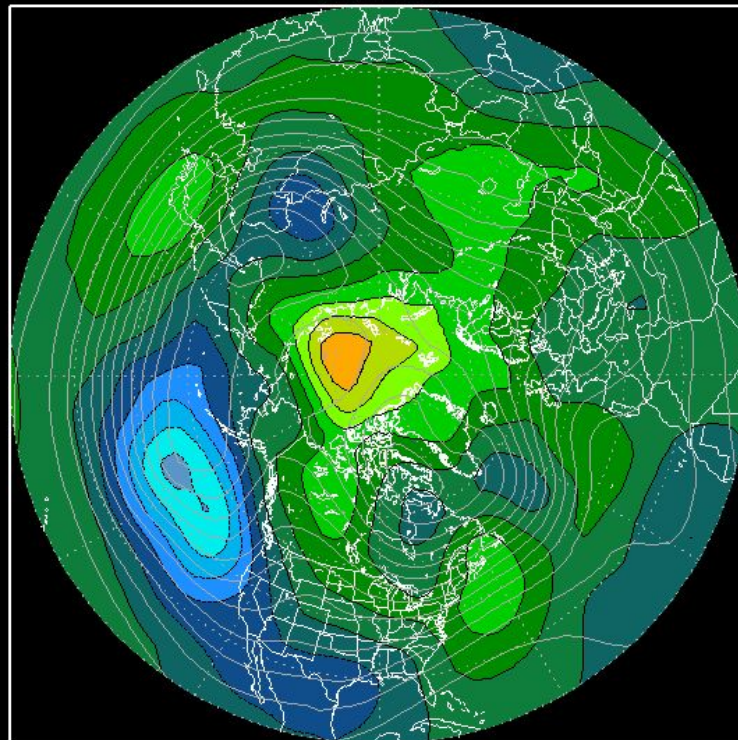
360H Forecast from: 00Z Sat FEB,20 2016
Valid time: 00Z Sun MAR,06 2016



00z Runs:(21) 12z Runs:(21)
5460m 5700m Cntrl 00z Cntrl 12z CLIM

NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

360H Forecast from: 00Z Sat FEB,20 2016
Valid time: 00Z Sun MAR,06 2016

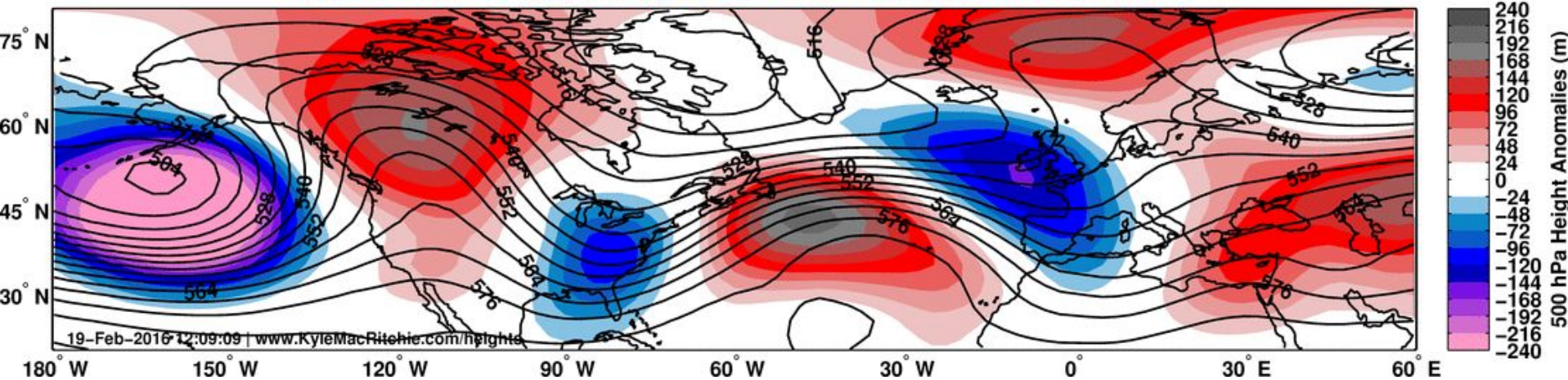


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The Curious Incident of the Zonal Mean Zonal Wind in 2016

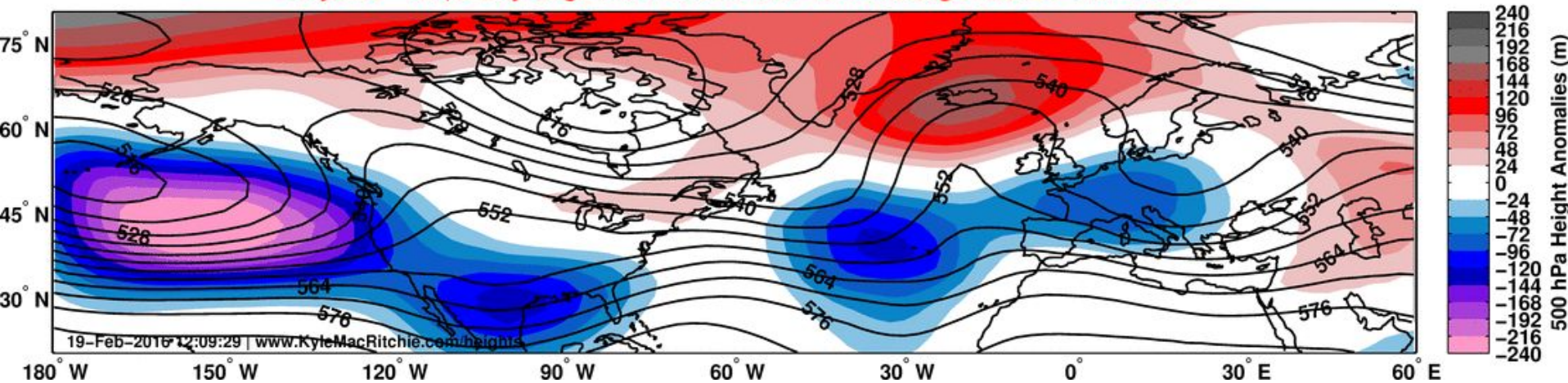
CFS (Ens. Mean) 500 hPa Hgts Anoms & Total | North America/Europe | Run at Fri 19-Feb-2016 00z

Days 6 - 10 | 5 Day Avg. Valid: Wed 24-Feb-2016 through Sun 28-Feb-2016



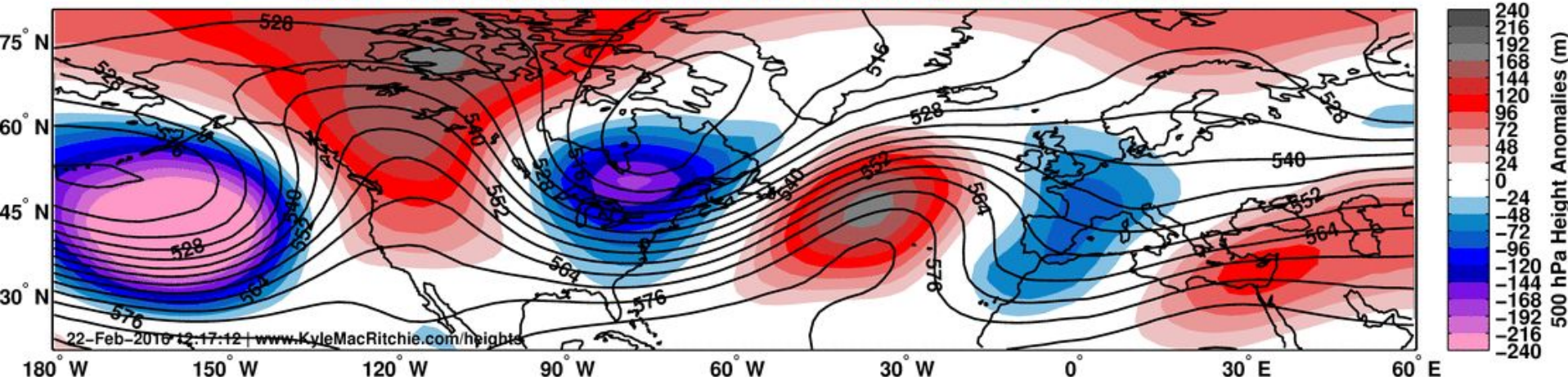
CFS (Ens. Mean) 500 hPa Hgts Anoms & Total | North America/Europe | Run at Fri 19-Feb-2016 00z

Days 16 - 20 | 5 Day Avg. Valid: Sat 05-Mar-2016 through Wed 09-Mar-2016



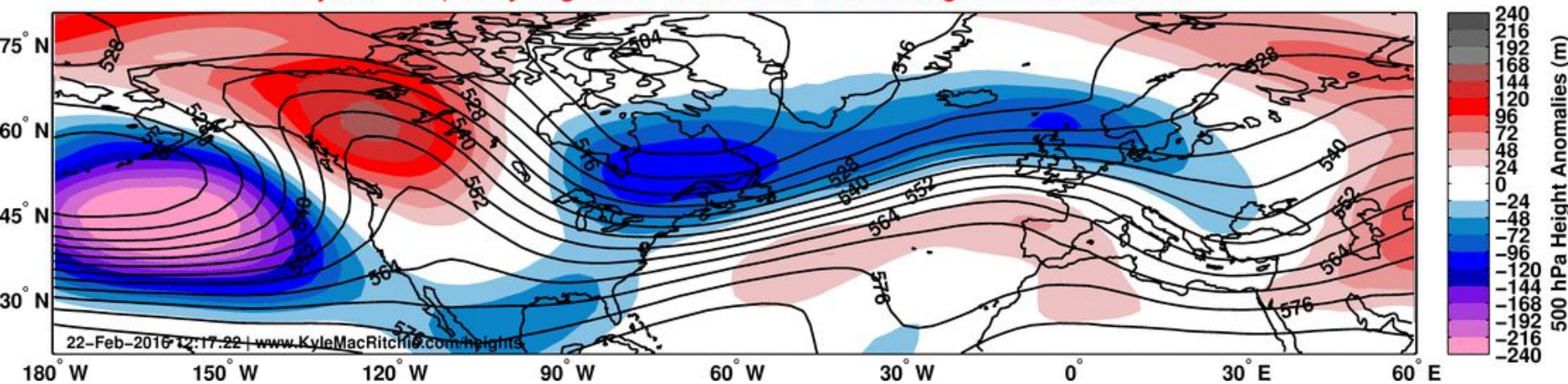
CFS (Ens. Mean) 500 hPa Hgts Anoms & Total | North America/Europe | Run at Mon 22-Feb-2016 00z

Days 6 - 10 | 5 Day Avg. Valid: Sat 27-Feb-2016 through Wed 02-Mar-2016



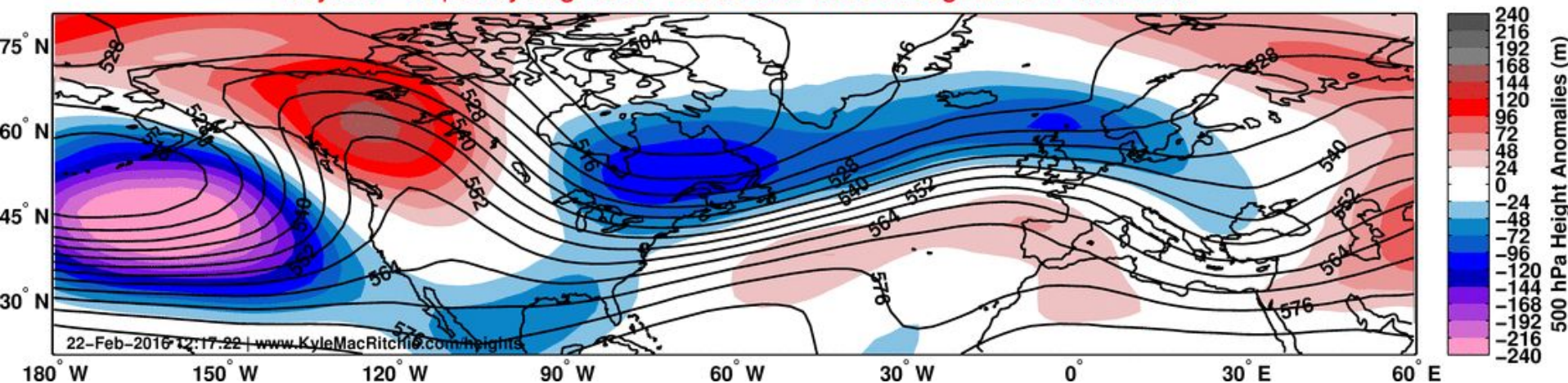
CFS (Ens. Mean) 500 hPa Hgts Anoms & Total | North America/Europe | Run at Mon 22-Feb-2016 00z

Days 11 - 15 | 5 Day Avg. Valid: Thu 03-Mar-2016 through Mon 07-Mar-2016



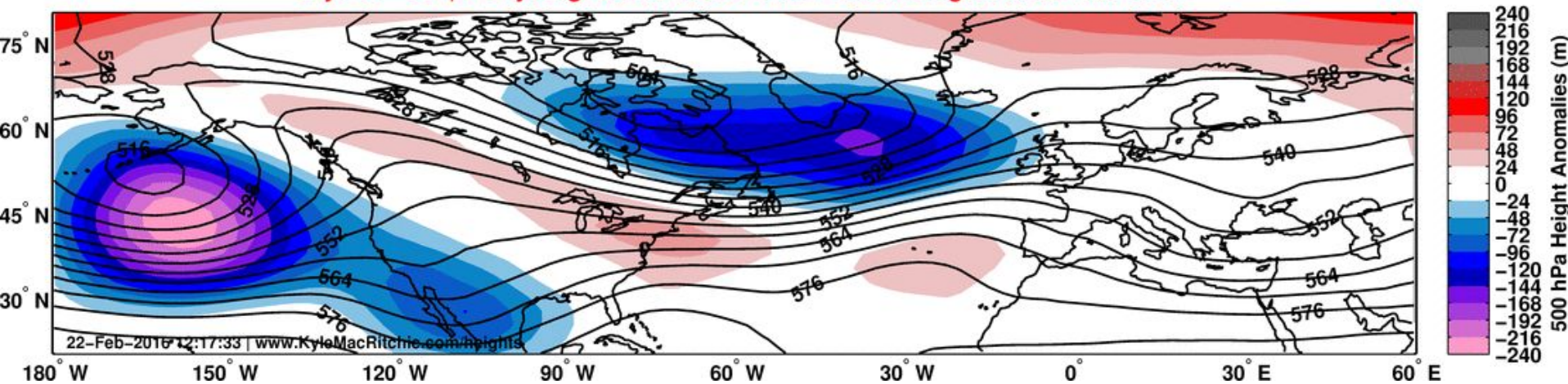
CFS (Ens. Mean) 500 hPa Hgts Anoms & Total | North America/Europe | Run at Mon 22-Feb-2016 00z

Days 11 – 15 | 5 Day Avg. Valid: Thu 03-Mar-2016 through Mon 07-Mar-2016

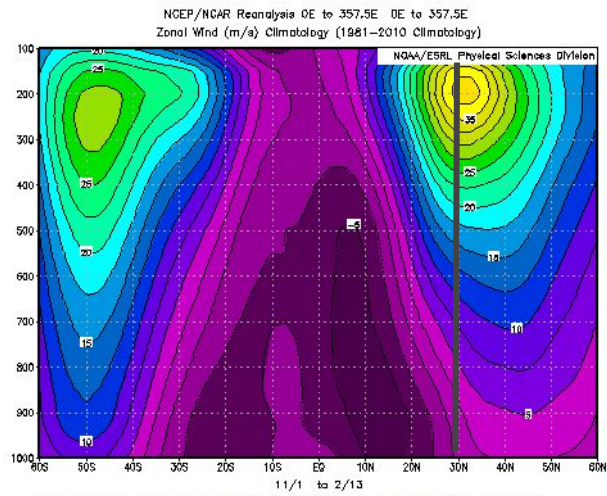


CFS (Ens. Mean) 500 hPa Hgts Anoms & Total | North America/Europe | Run at Mon 22-Feb-2016 00z

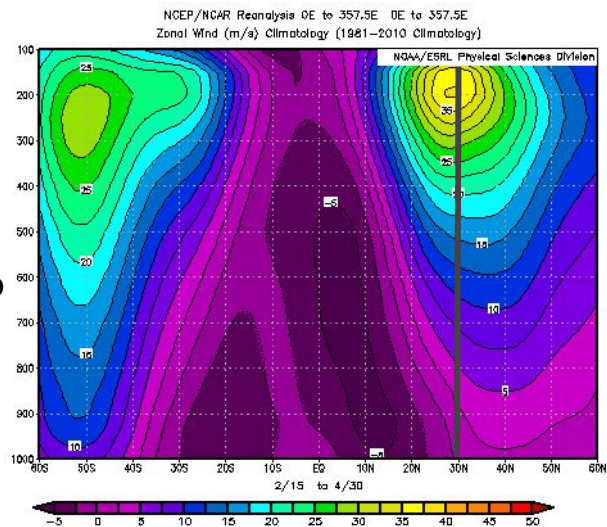
Days 16 – 20 | 5 Day Avg. Valid: Tue 08-Mar-2016 through Sat 12-Mar-2016

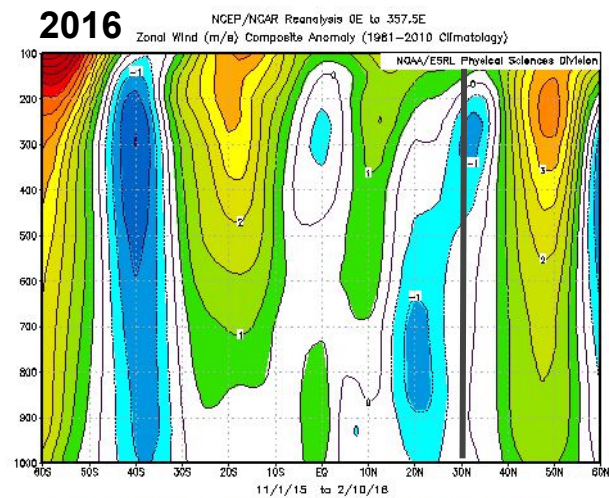
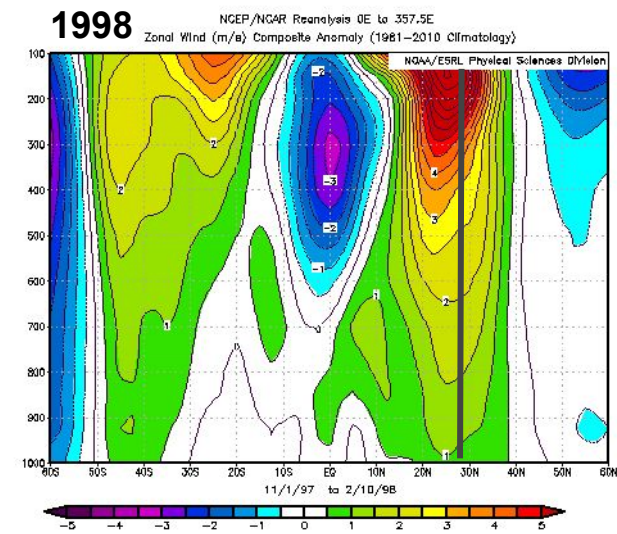
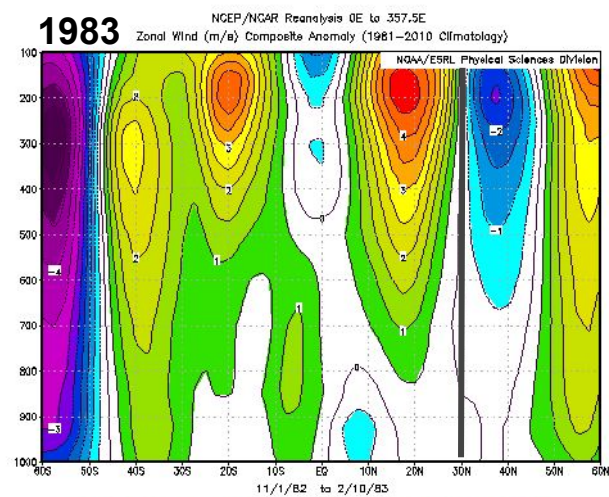
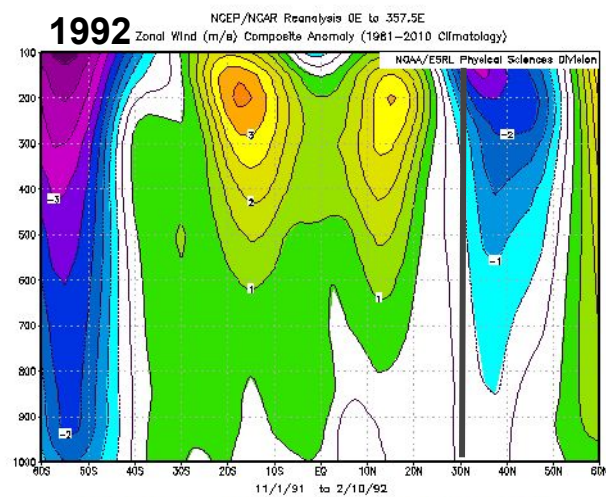


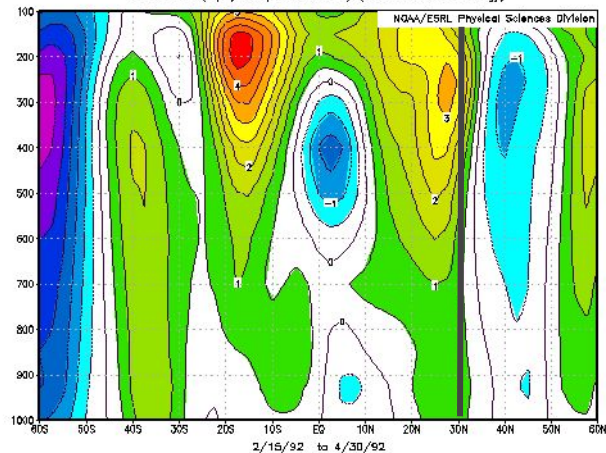
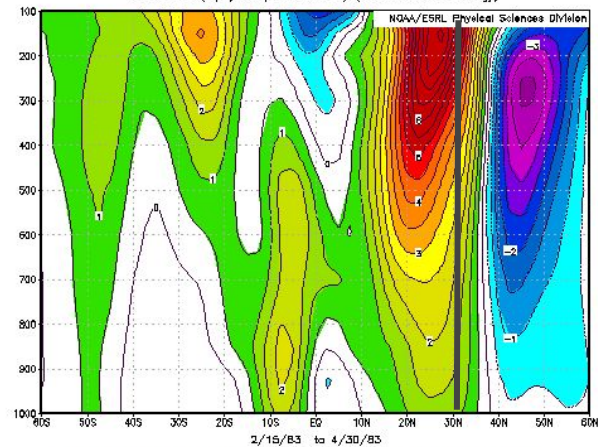
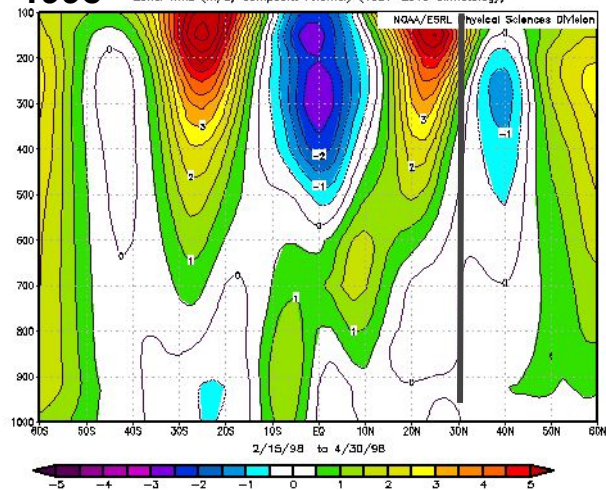
Zonal Mean U Nov 1- Feb 13 Climo



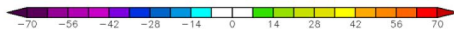
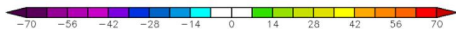
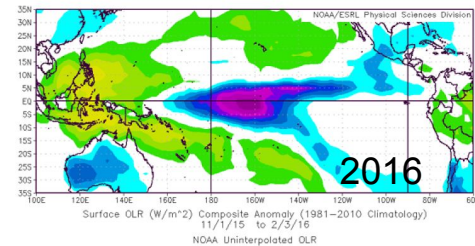
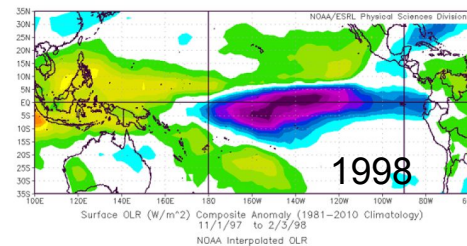
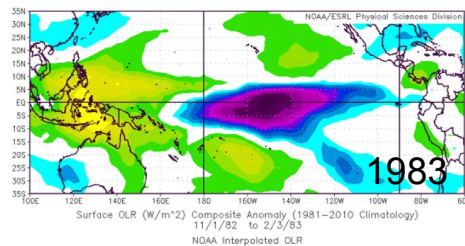
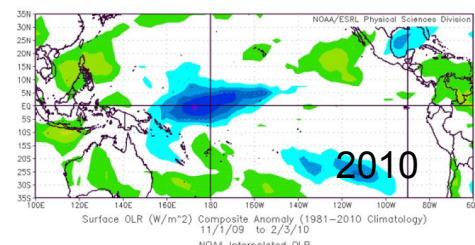
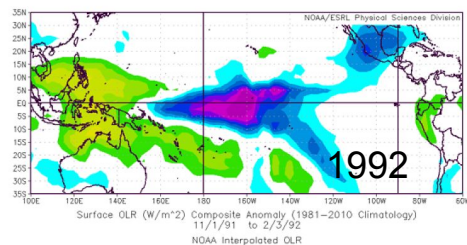
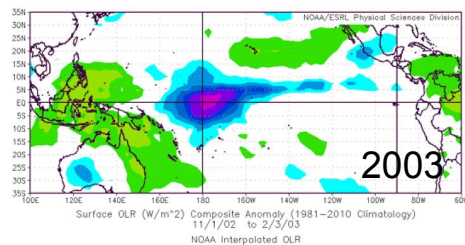
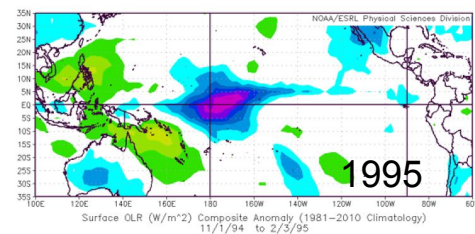
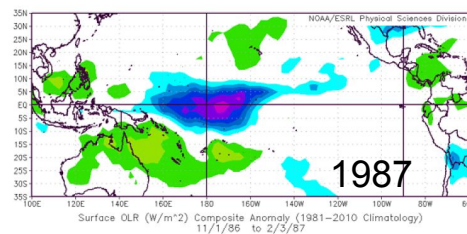
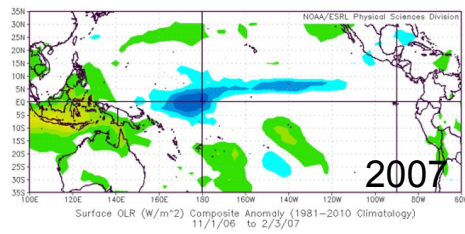
Zonal Mean U Feb 15 - Apr 30 Climo



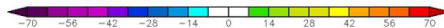
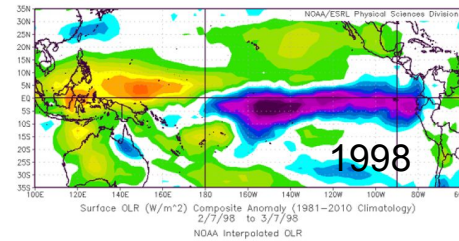
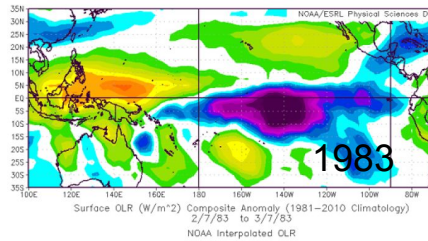
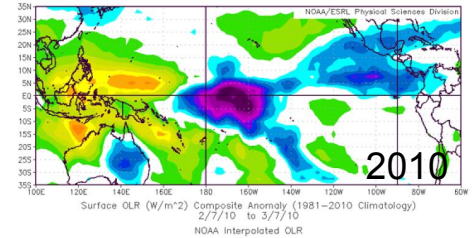
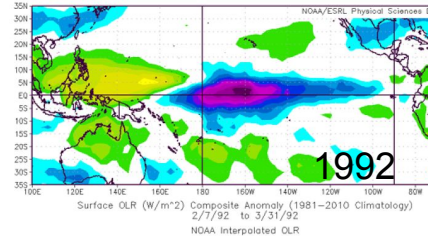
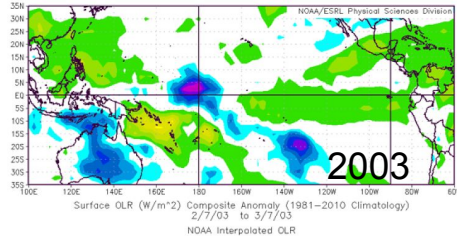
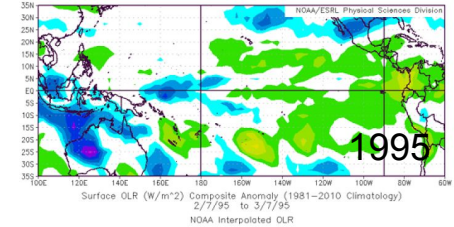
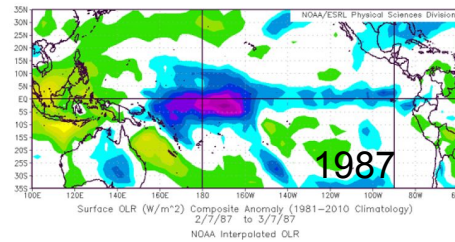
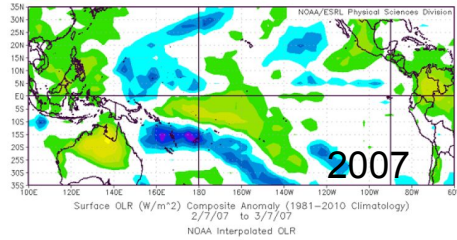


1992NGEP/NGAR Reanalysis 0E to 357.5E
Zonal Wind (m/s) Composite Anomaly (1981–2010 Climatology)**1983**NGEP/NGAR Reanalysis 0E to 357.5E
Zonal Wind (m/s) Composite Anomaly (1981–2010 Climatology)**1998**NGEP/NGAR Reanalysis 0E to 357.5E
Zonal Wind (m/s) Composite Anomaly (1981–2010 Climatology)

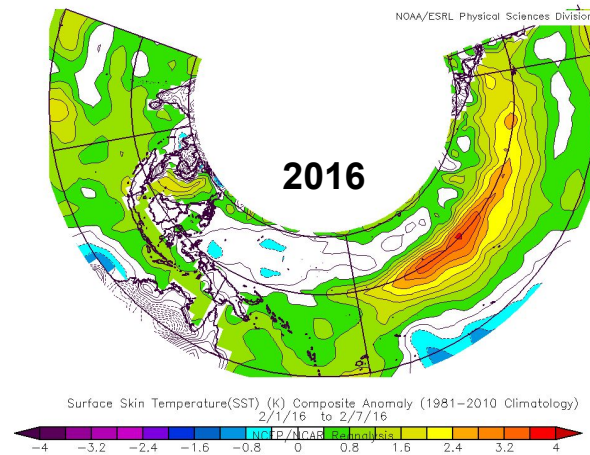
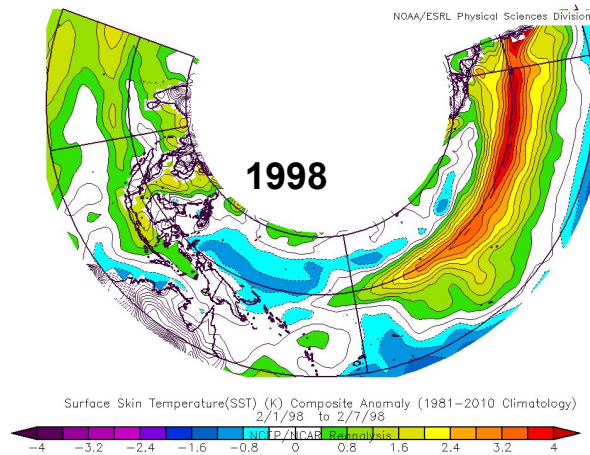
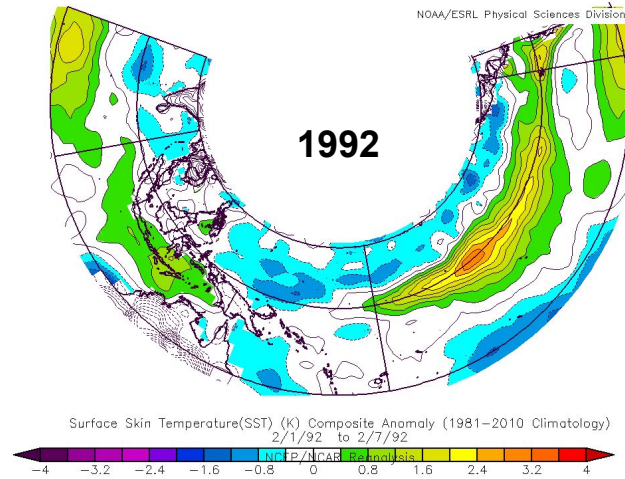
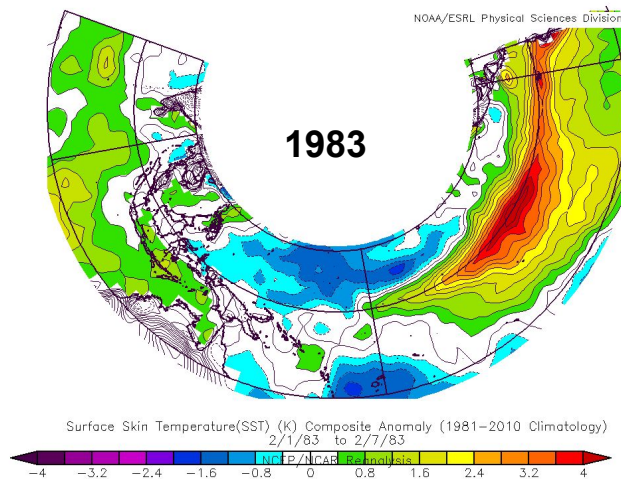
Observed OLR Anomalies : 1 Nov - 3 Feb

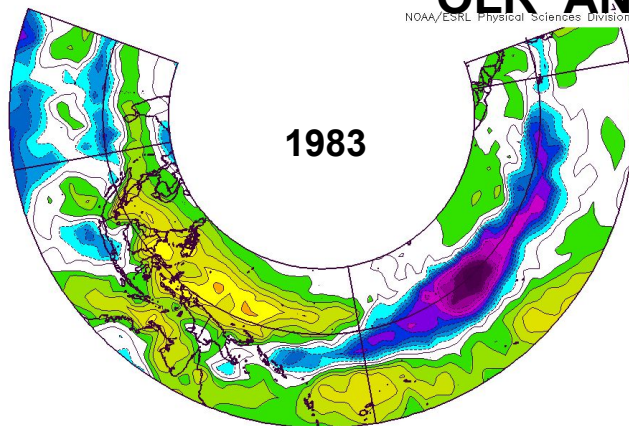


Observed OLR Anomalies : 7 Feb - 7 Mar

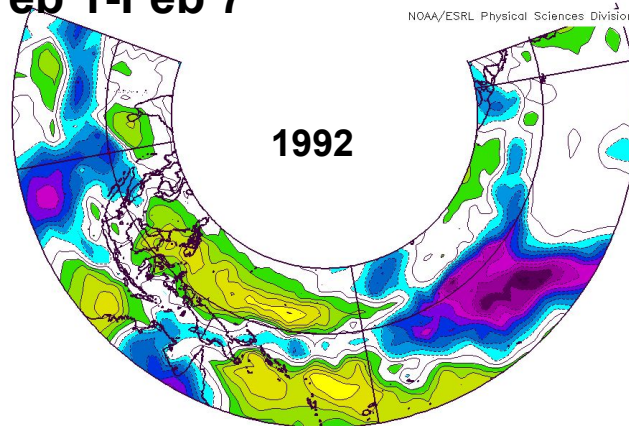
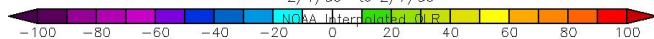


SST ANOM Feb 1-Feb 7

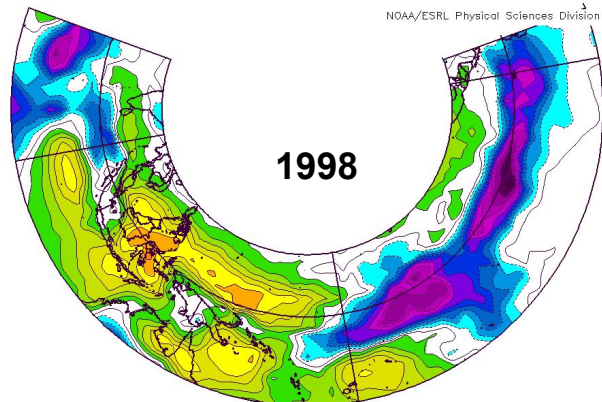
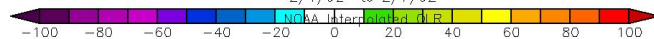




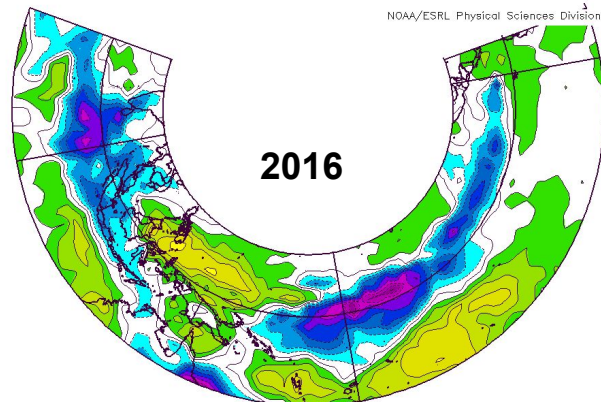
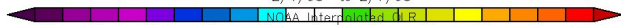
Surface OLR (W/m^2) Composite Anomaly (1981–2010 Climatology)
2/1/83 to 2/7/83



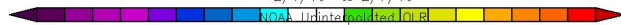
Surface OLR (W/m^2) Composite Anomaly (1981–2010 Climatology)
2/1/92 to 2/7/92



Surface OLR (W/m^2) Composite Anomaly (1981–2010 Climatology)
2/1/98 to 2/7/98



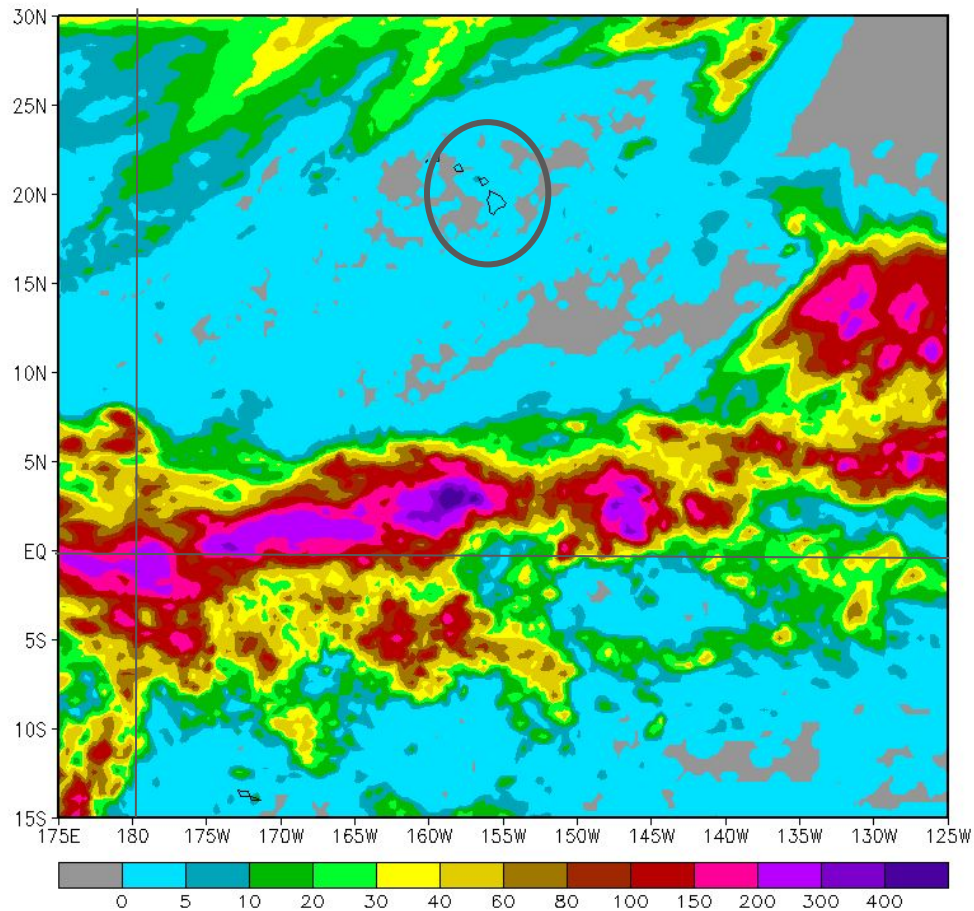
Surface OLR (W/m^2) Composite Anomaly (1981–2010 Climatology)
2/1/16 to 2/7/16



CMORPH 7-day Rainfall Accumulation (mm)
(08Feb2016 12Z - 15Feb2016 12Z)

CMORPH: 7-Day

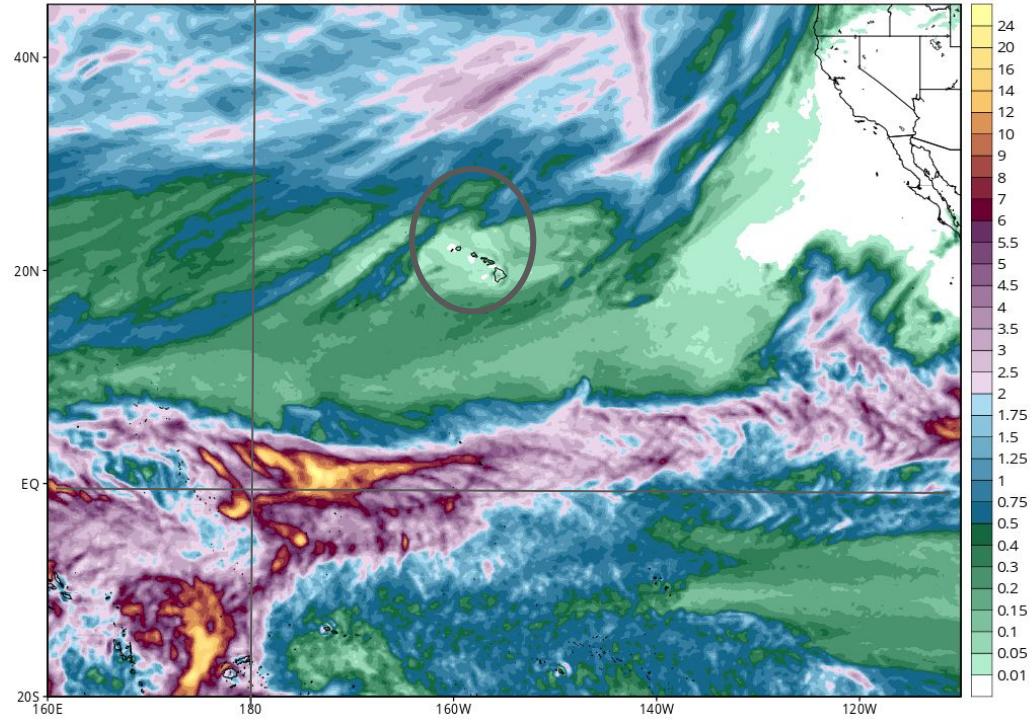
8 - 15 Feb



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

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

Levi Cowan | tropicaltidbits.com



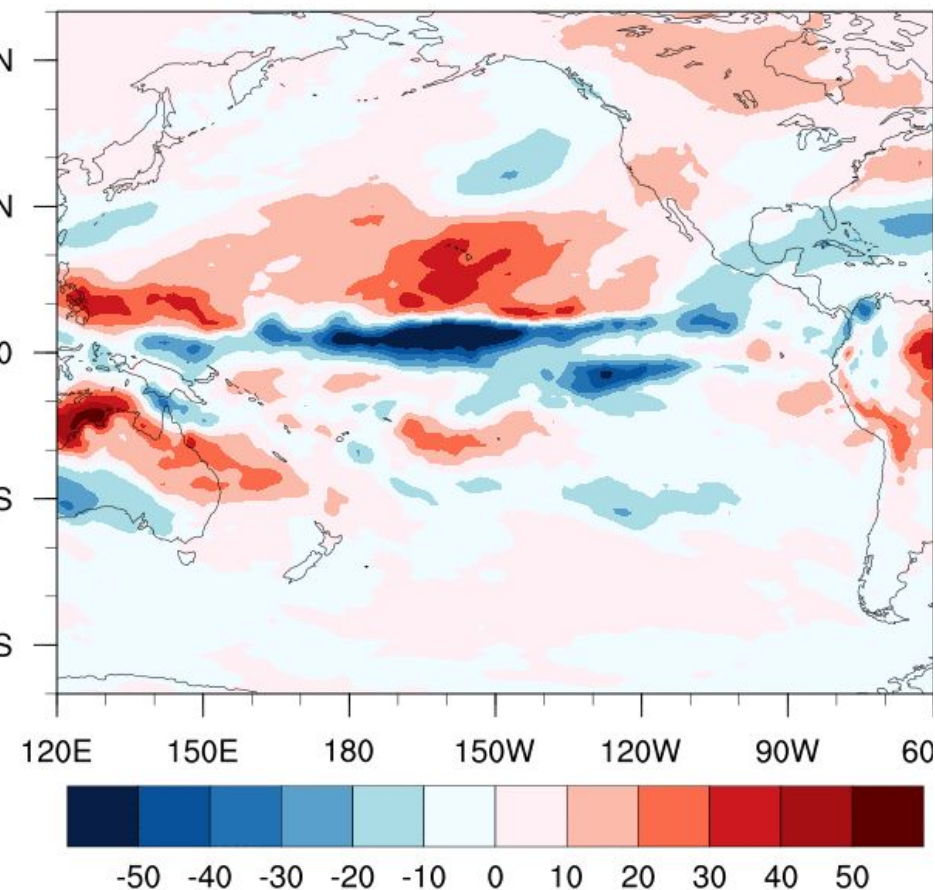
Initial Condition Dependency of the El Niño Signal

Day 23-30 Comparison (Analyzed SST - Climo SST)

OLR

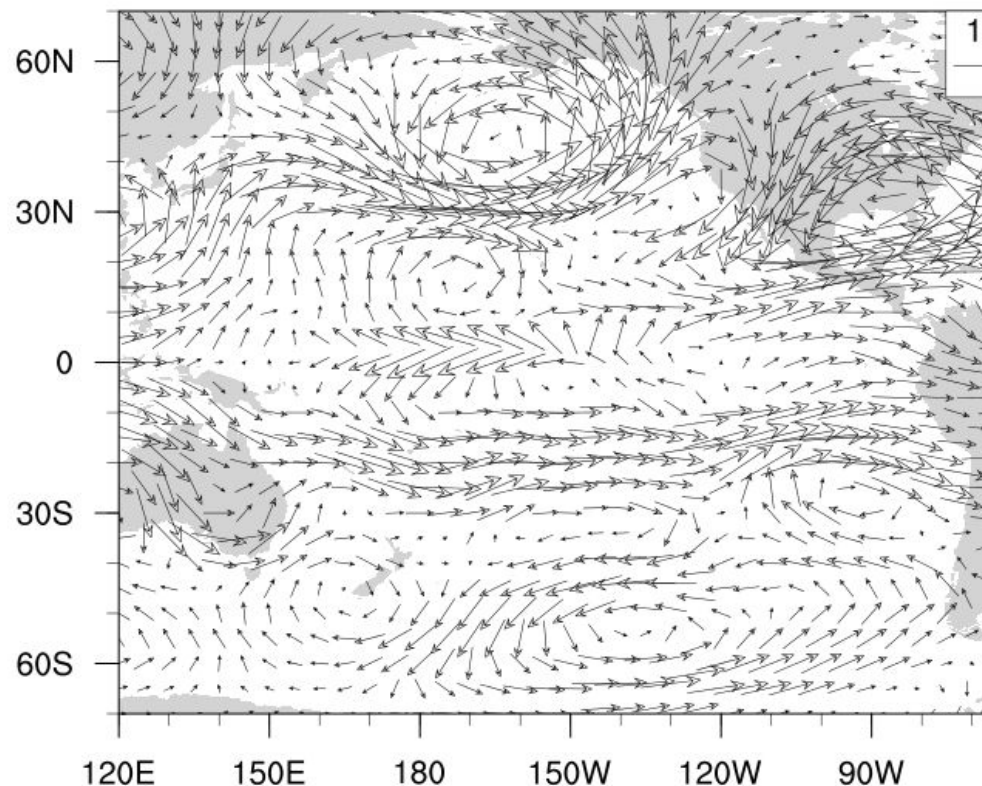
2016/02/21-2016/02/29

W m-2



Day 23-30 Comparison (Analyzed SST - Climo SST)

200 hPa Wind Vectors 2016/02/21-2016/02/29

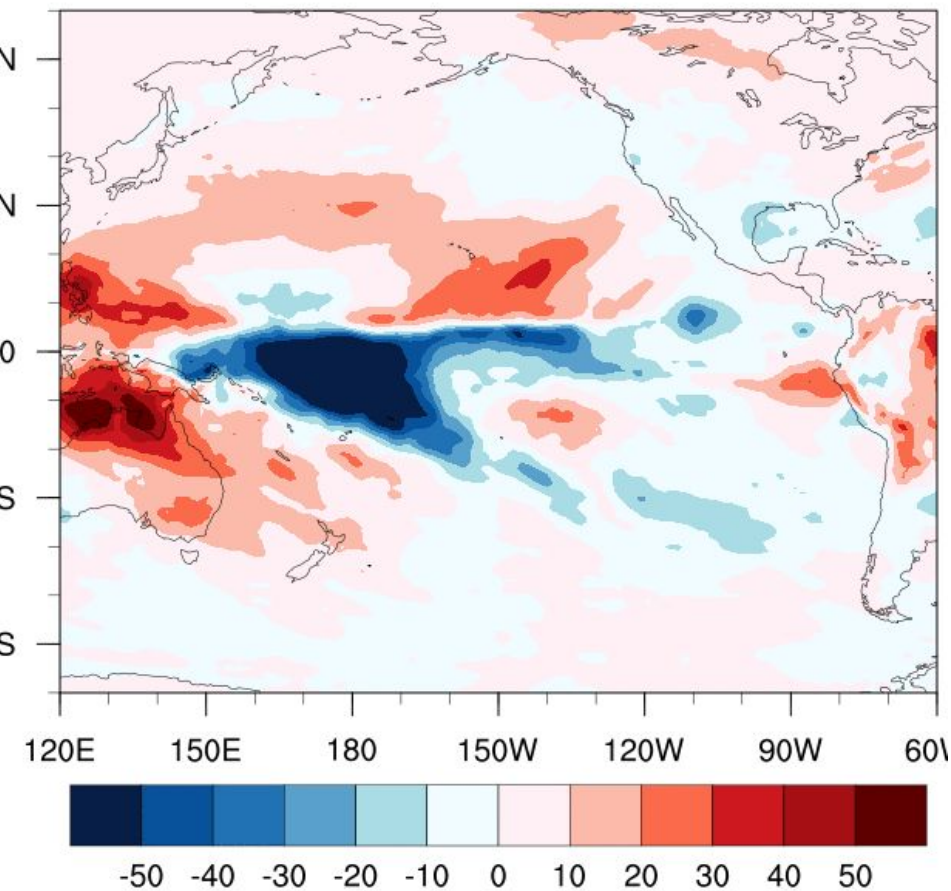


Day 15-22 Comparison (Analyzed SST - Climo SST)

OLR

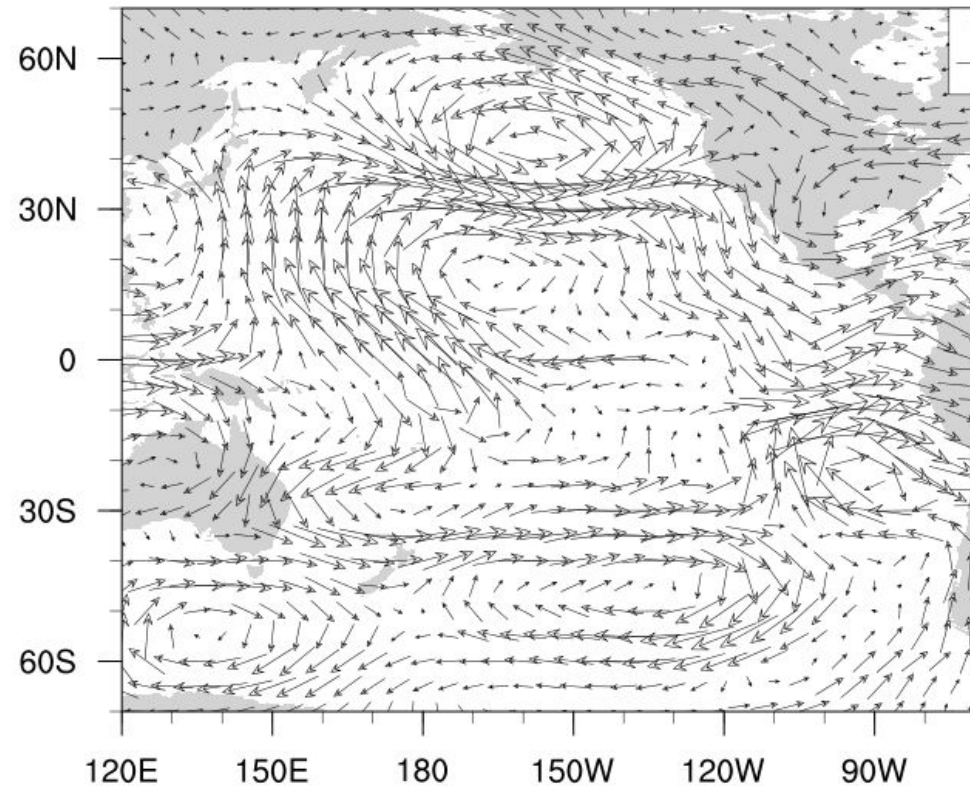
2016/02/21-2016/02/29

W m⁻²



Day 15-22 Comparison (Analyzed SST - Climo SS

200 hPa Wind Vectors 2016/02/21-2016/02/29

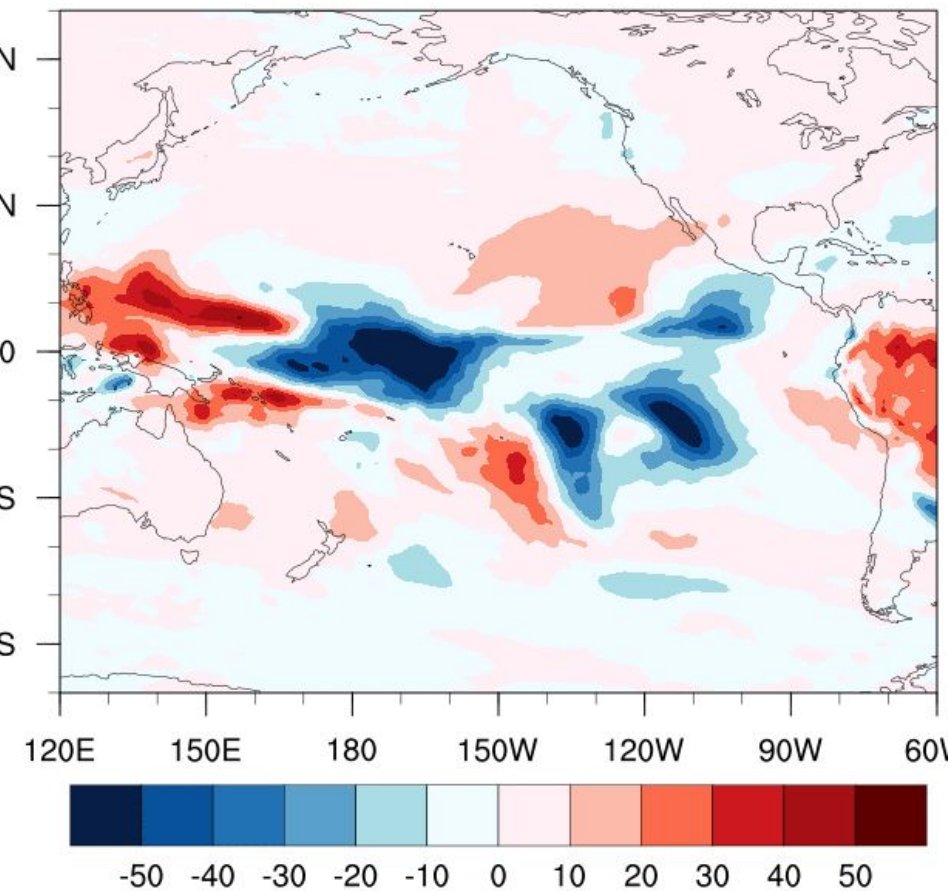


Day 8-14 Comparison (Analyzed SST - Climo SST)

OLR

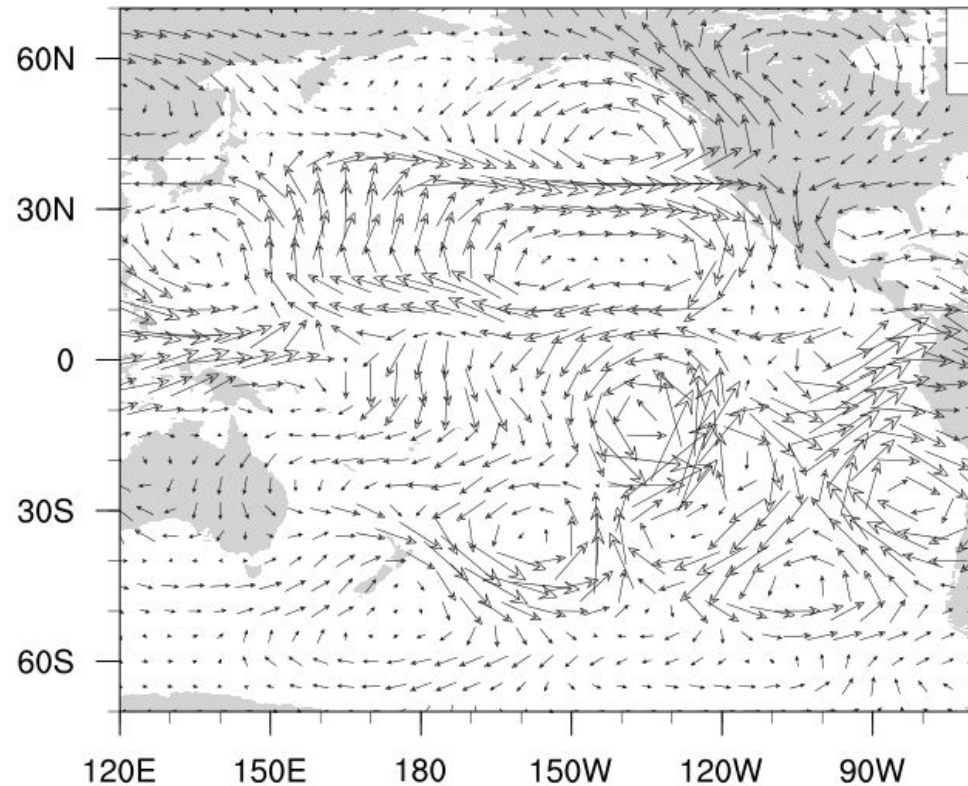
2016/02/22-2016/02/29

W m⁻²



Day 8-14 Comparison (Analyzed SST - Climo SST)

200 hPa Wind Vectors 2016/02/22-2016/02/29

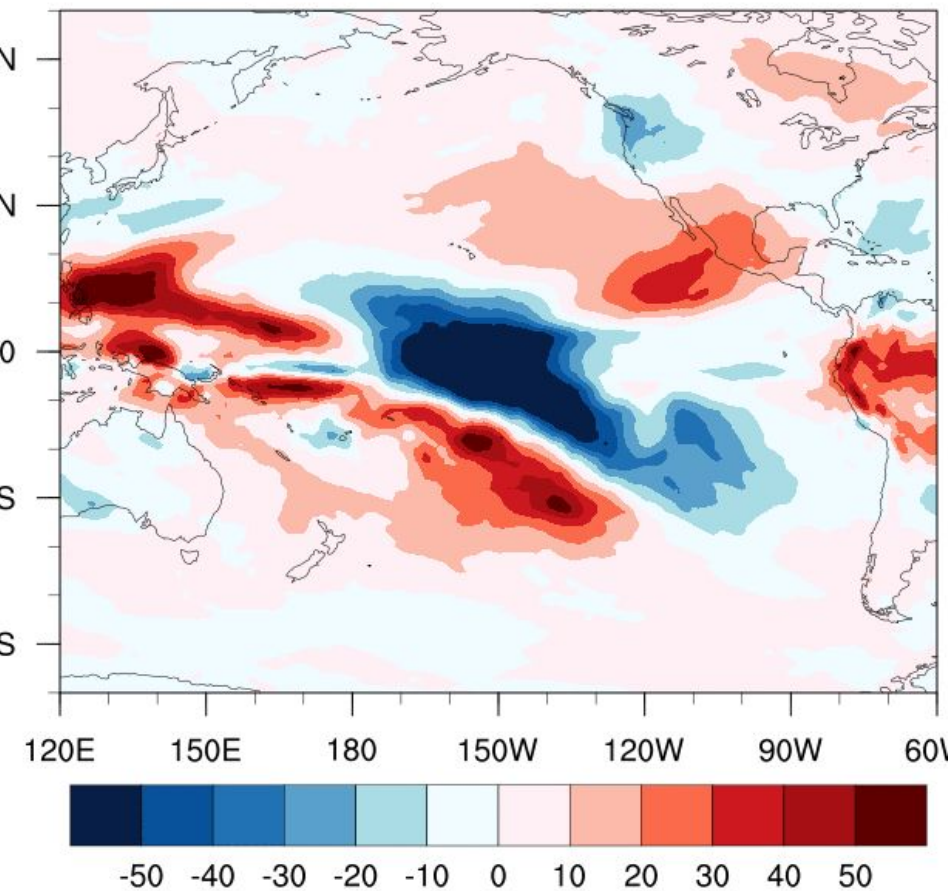


Day 15-22 Comparison (Analyzed SST - Climo SST)

OLR

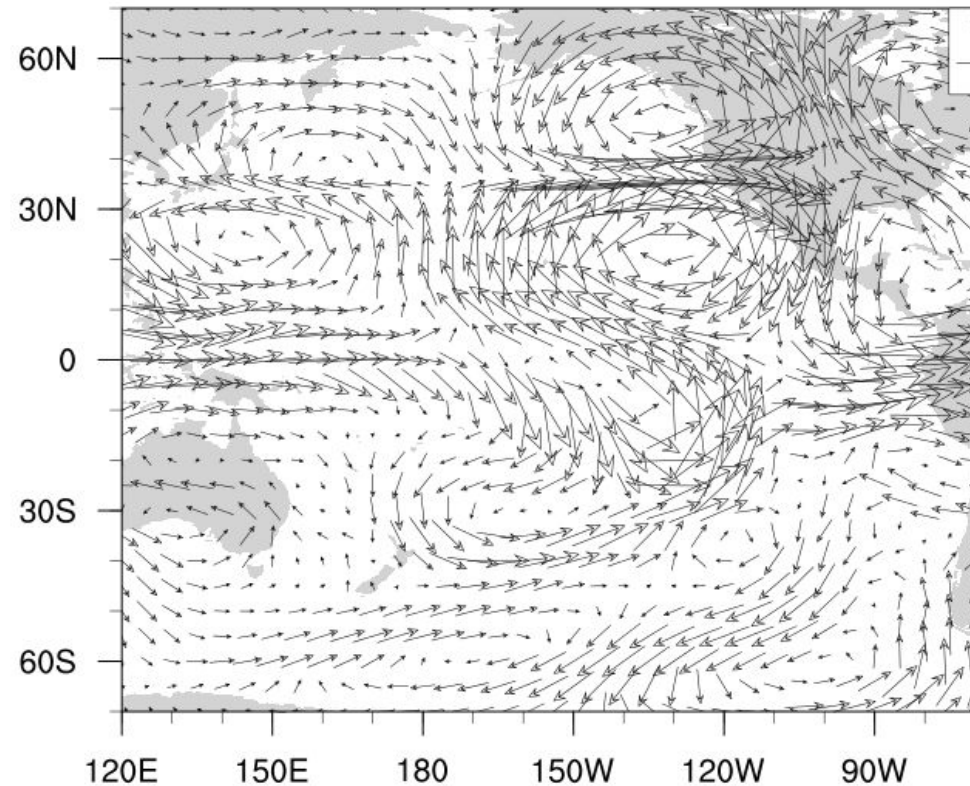
2016/02/29-2016/03/08

W m⁻²



Day 15-22 Comparison (Analyzed SST - Climo SS

200 hPa Wind Vectors 2016/02/29-2016/03/08

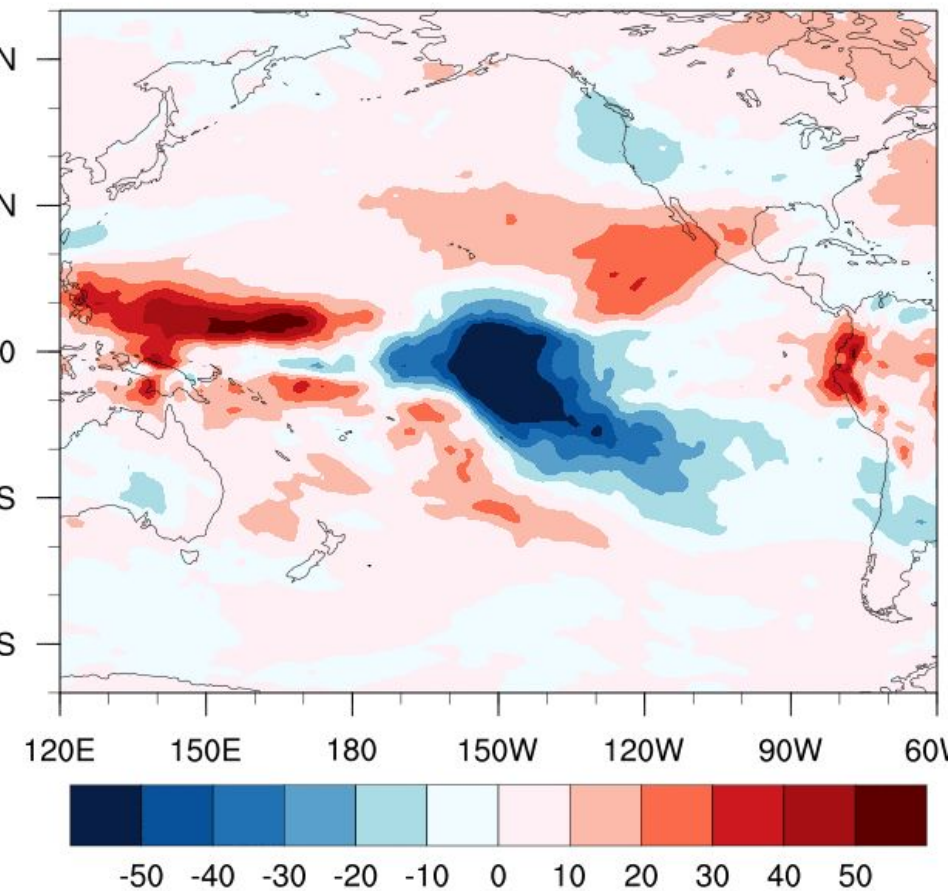


Day 23-30 Comparison (Analyzed SST - Climo SST)

OLR

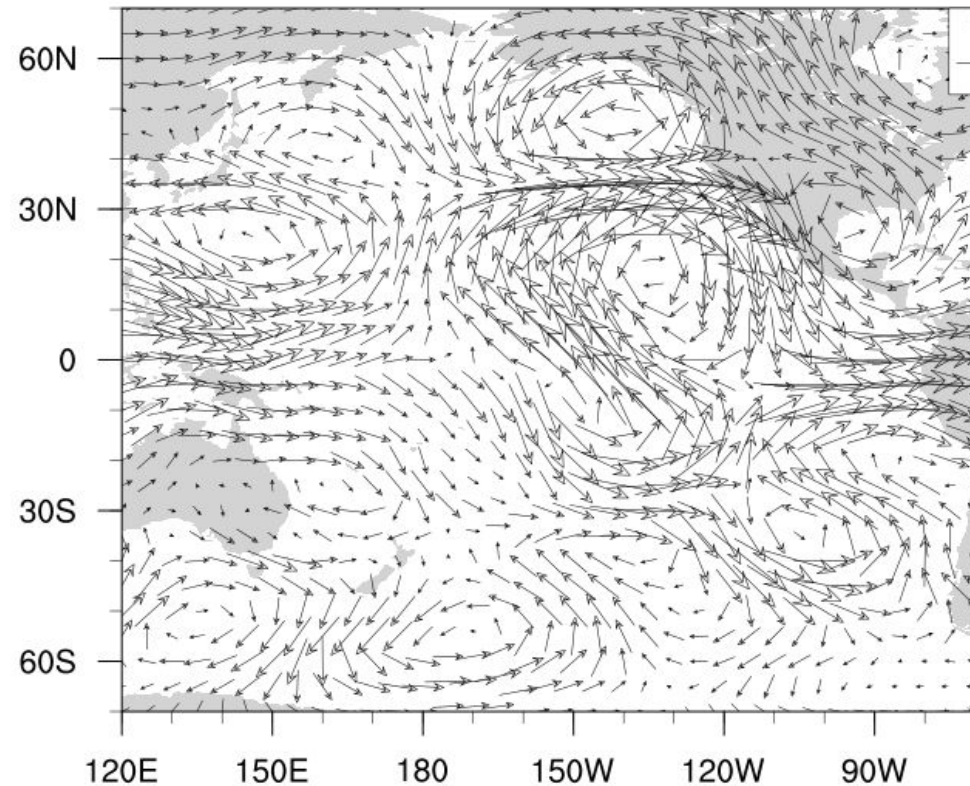
2016/03/08-2016/03/16

W m-2



Day 23-30 Comparison (Analyzed SST - Climo SS

200 hPa Wind Vectors 2016/03/08-2016/03/16

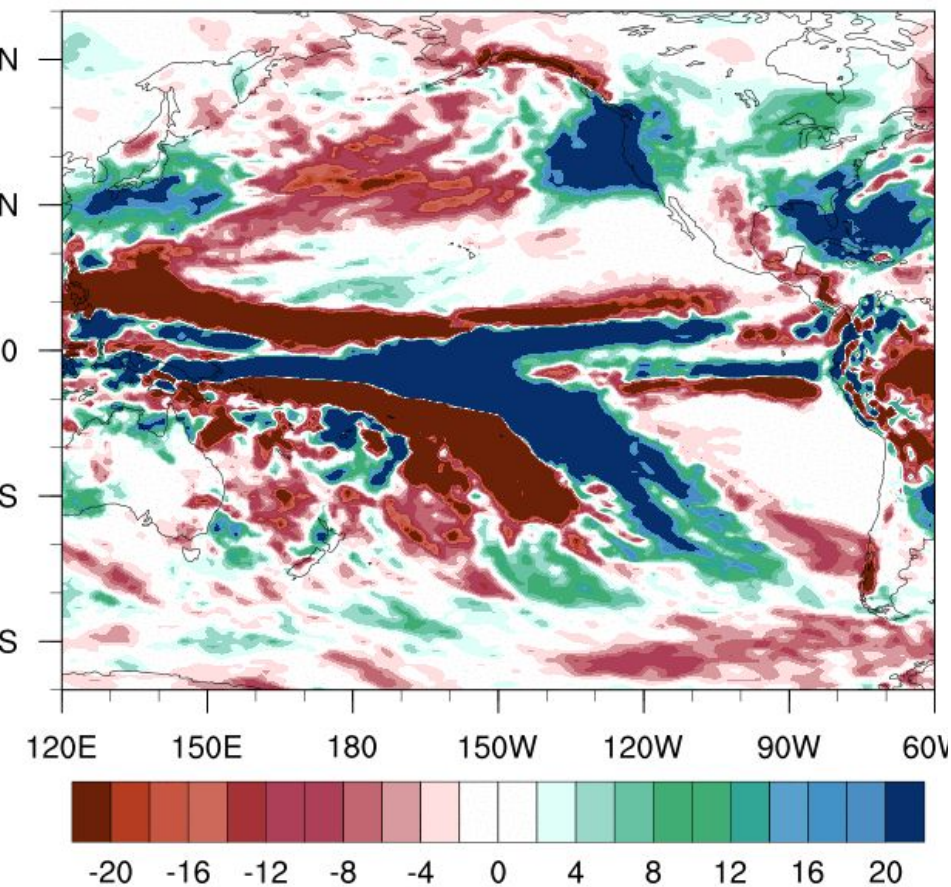


Day 15-22 Comparison (Analyzed SST - Climo SST)

Precipitation

2016/02/29-2016/03/08

mm



Day 23-30 Comparison (Analyzed SST - Climo SST)

Precipitation

2016/03/08-2016/03/16

