

Summary of Key Briefing Points
1030-1130am MST Thu Mar 3, 2016

Current Conditions as of Thu 12Z-15Z Mar 3

Tropics and Mid-latitudes

Over the Tropical Pacific:

- w-e line of isolated convection, increasing this morning, 170W-145W
- line mostly between 2-5N

Tropical Outlook

- Main convection in SPCZ----to remain very active, and eastward displaced
- Active convection expected in central/west-central FD next 1-2 days

Midlatitude Conditions/Outlook

Short Term:

- CA quiet today, rains expected late week

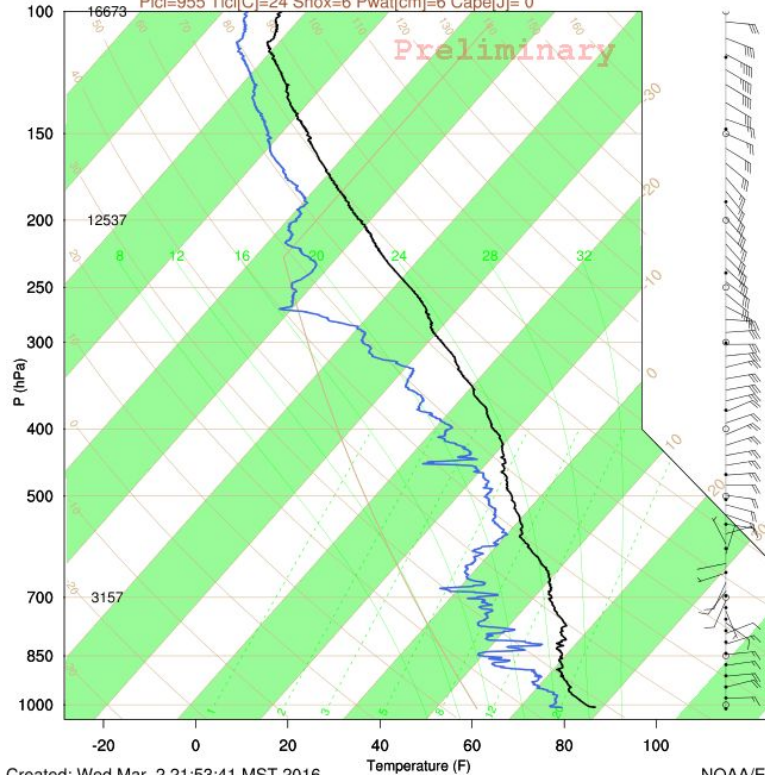
- **Medium - Long Term:**

- Heavy rains likely over weekend, Sunday especially
- Day 8-14 in EC and GFS indicate major change in the EPacific circulation, wet ALL CA likely

Yesterday Once More

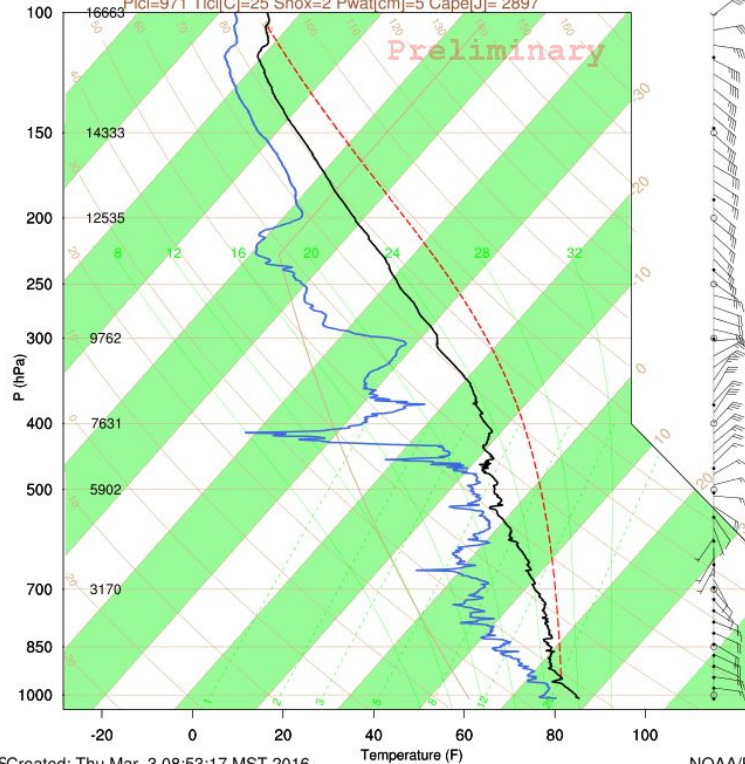
Kiritimati Is: 03/02/2016 2325Z 2.01N 157.40W

Ptcl=955 Tlcl[C]=24 Shox=6 Pwat[cm]=6 Cape[J]= 0

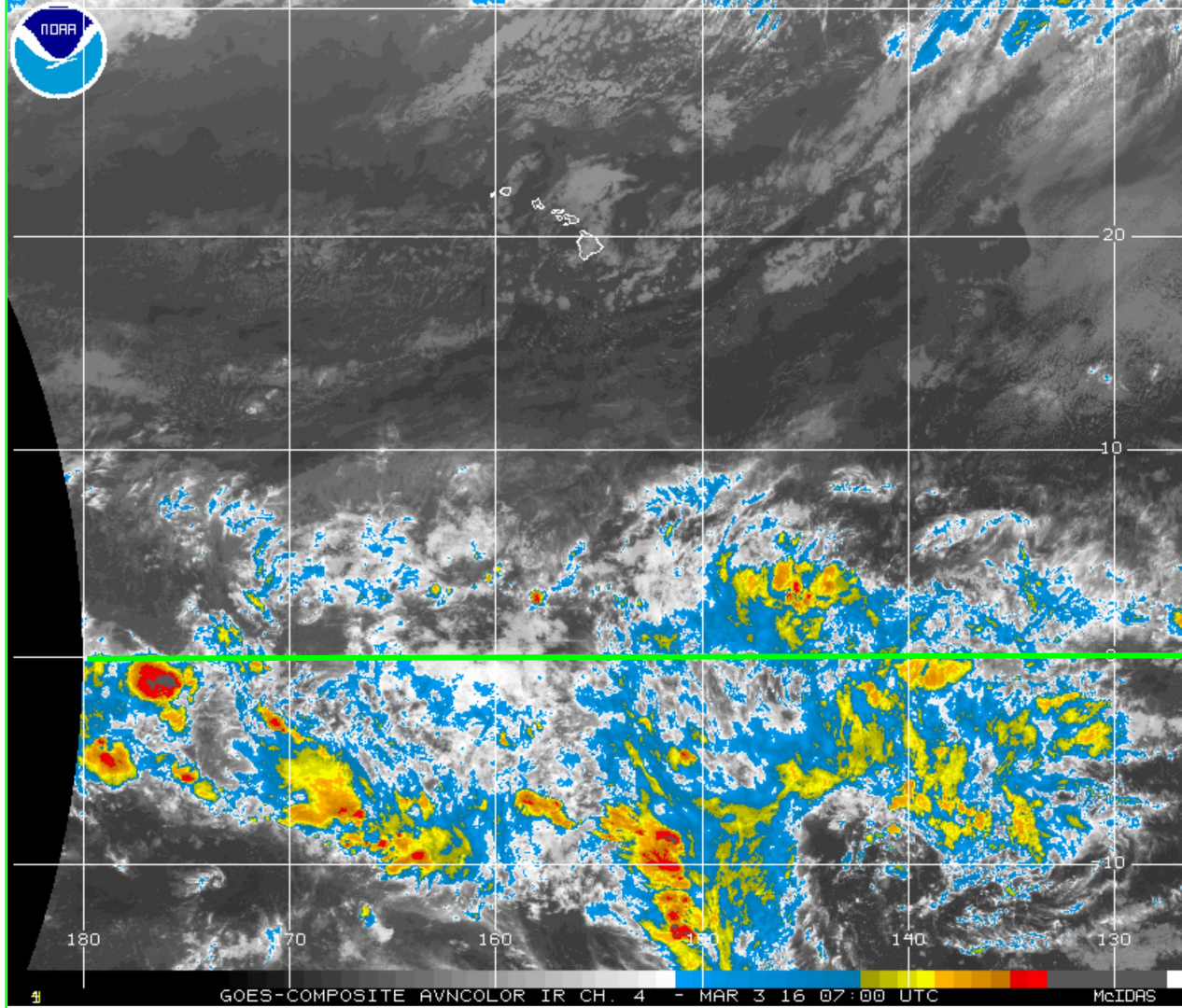


Kiritimati Is: 03/03/2016 1118Z 2.01N 157.40W

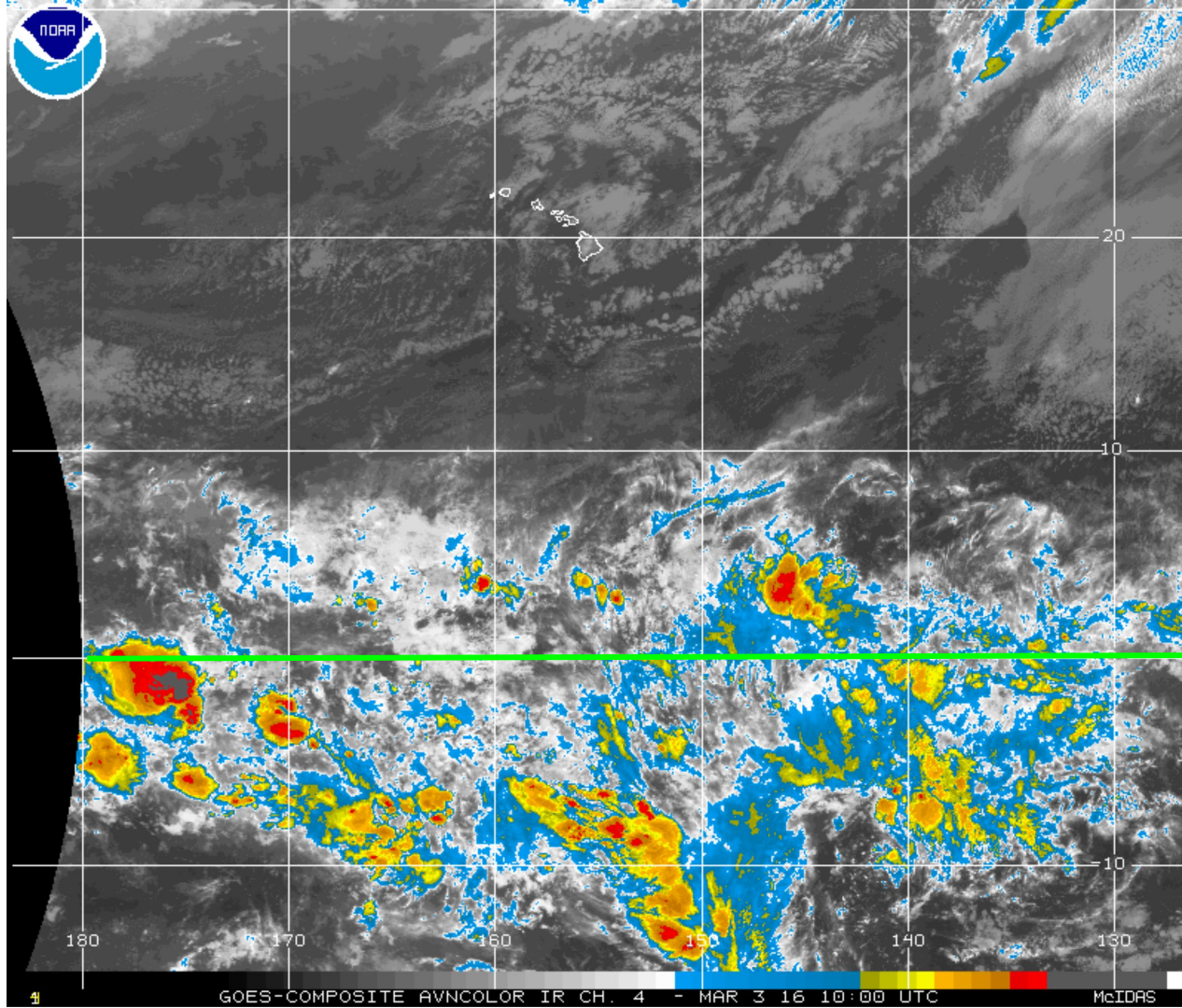
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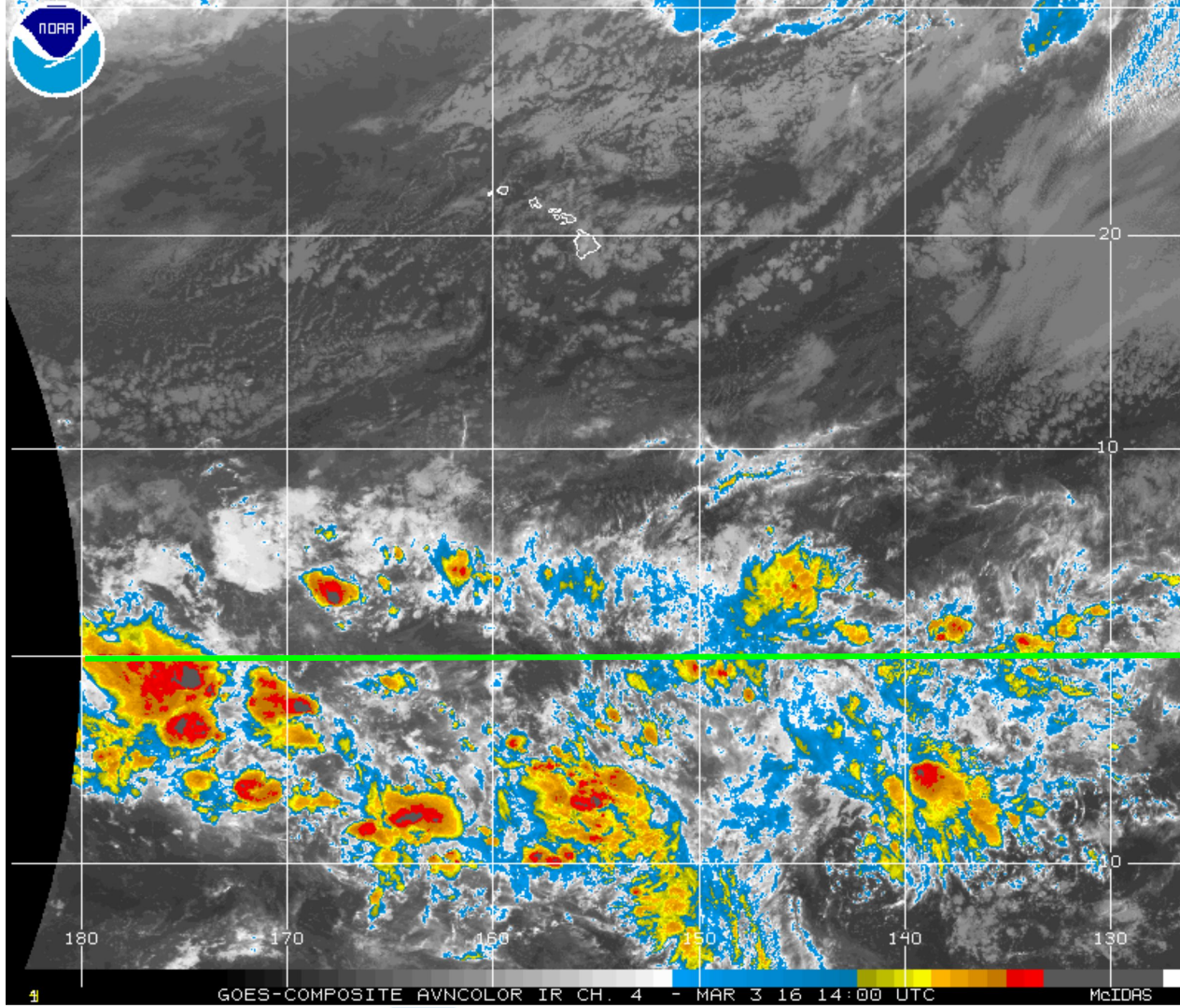
Thu 7Z



Thu 10Z



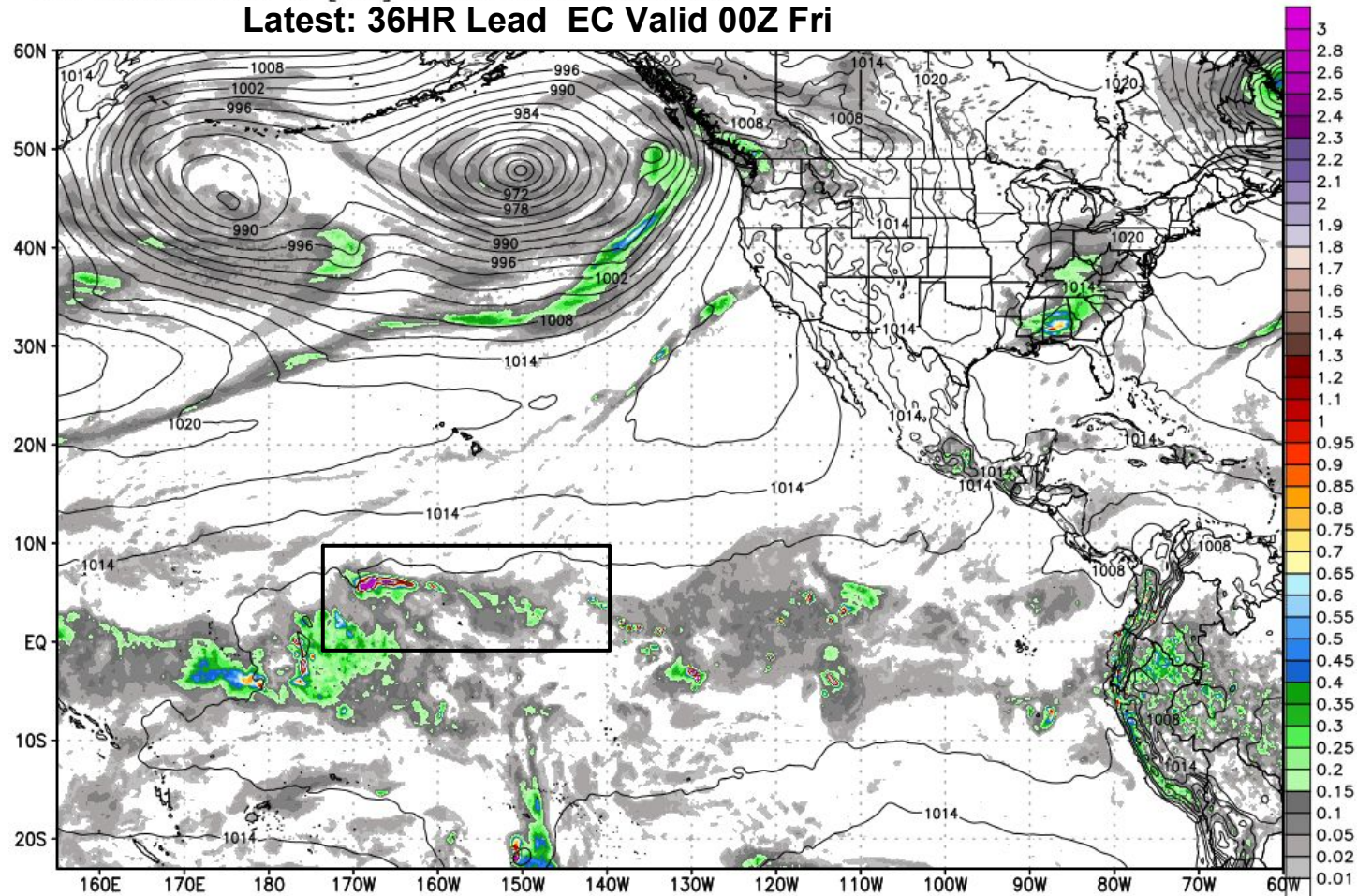
Thu 14Z



EC Fcst from 00Z Thu Initializations

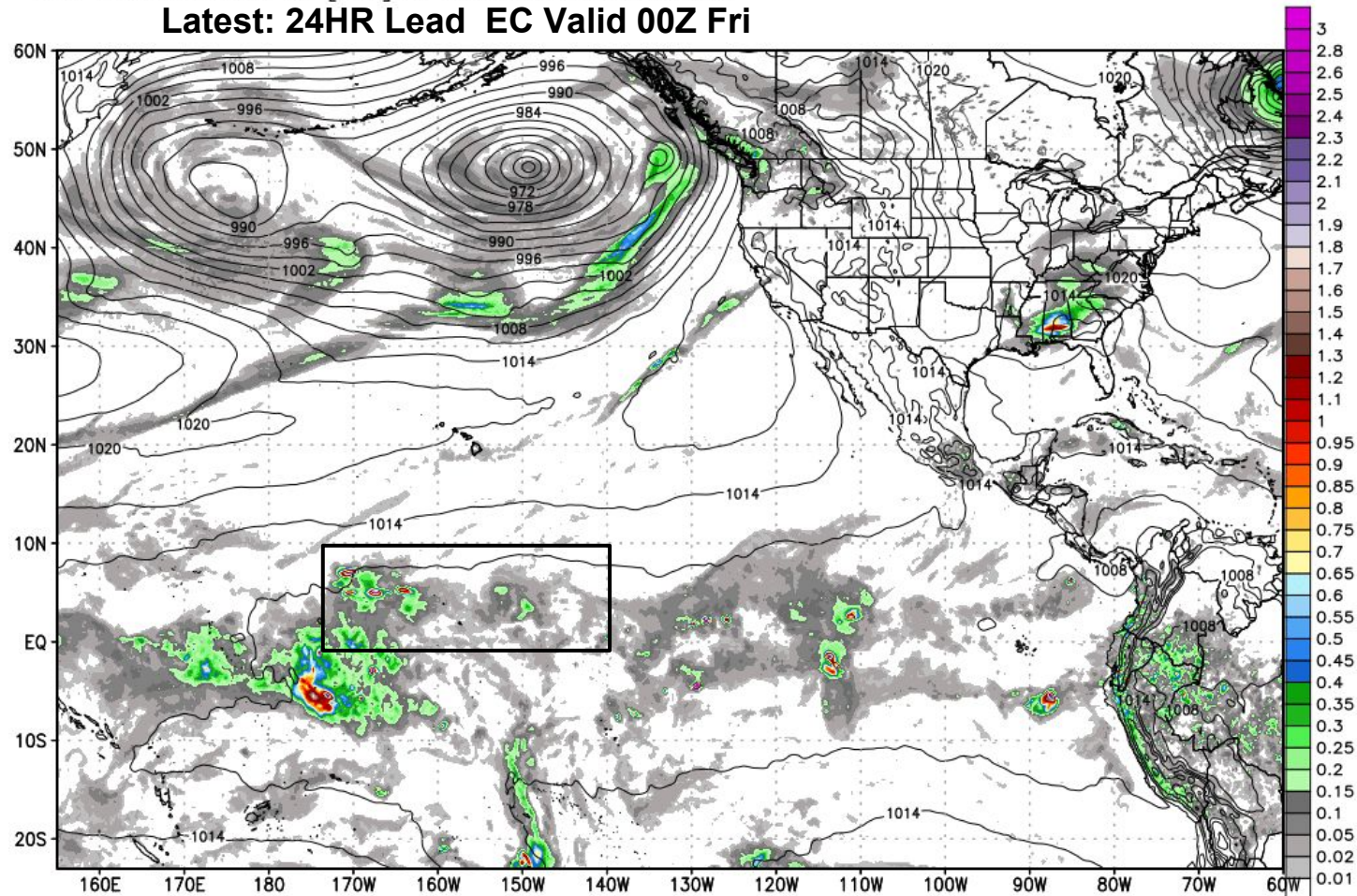
ECMWF 6-hourly Precipitation [inches] between 18Z03MAR2016 -- 00Z04MAR2016 & MSLP [hPa]
INIT: 12Z02MAR2016 fx: [036] hr --> Fri 00Z04MAR2016

Latest: 36HR Lead EC Valid 00Z Fri



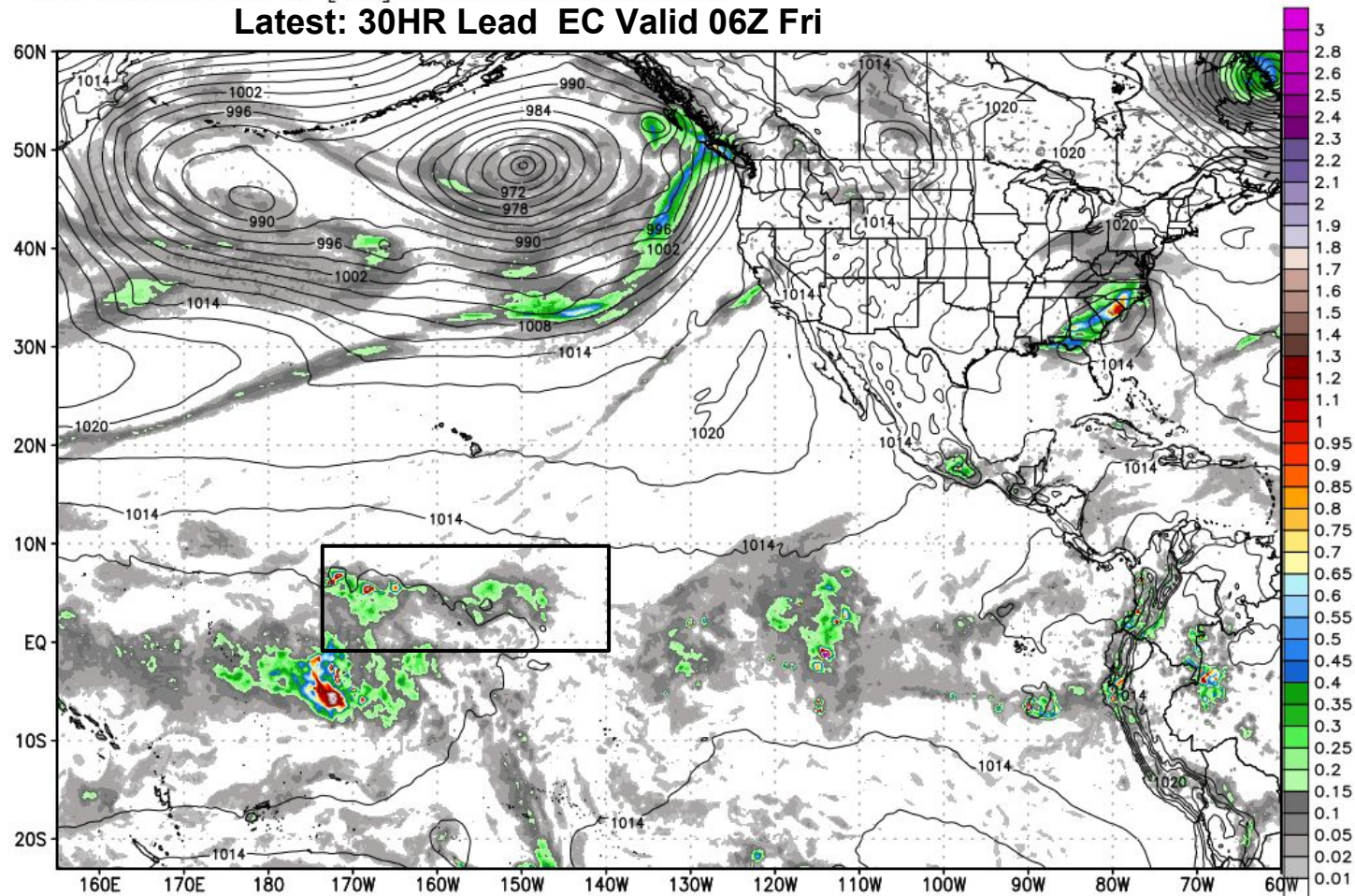
ECMWF 6-hourly Precipitation [inches] between 18Z03MAR2016 -- 00Z04MAR2016 & MSLP [hPa]
INIT: 00Z03MAR2016 fx: [024] hr --> Fri 00Z04MAR2016

Latest: 24HR Lead EC Valid 00Z Fri



ECMWF 6-hourly Precipitation [inches] between 00Z04MAR2016 -- 06Z04MAR2016 & MSLP [hPa]
INIT: 00Z03MAR2016 fx: [030] hr --> Fri 06Z04MAR2016

Latest: 30HR Lead EC Valid 06Z Fri

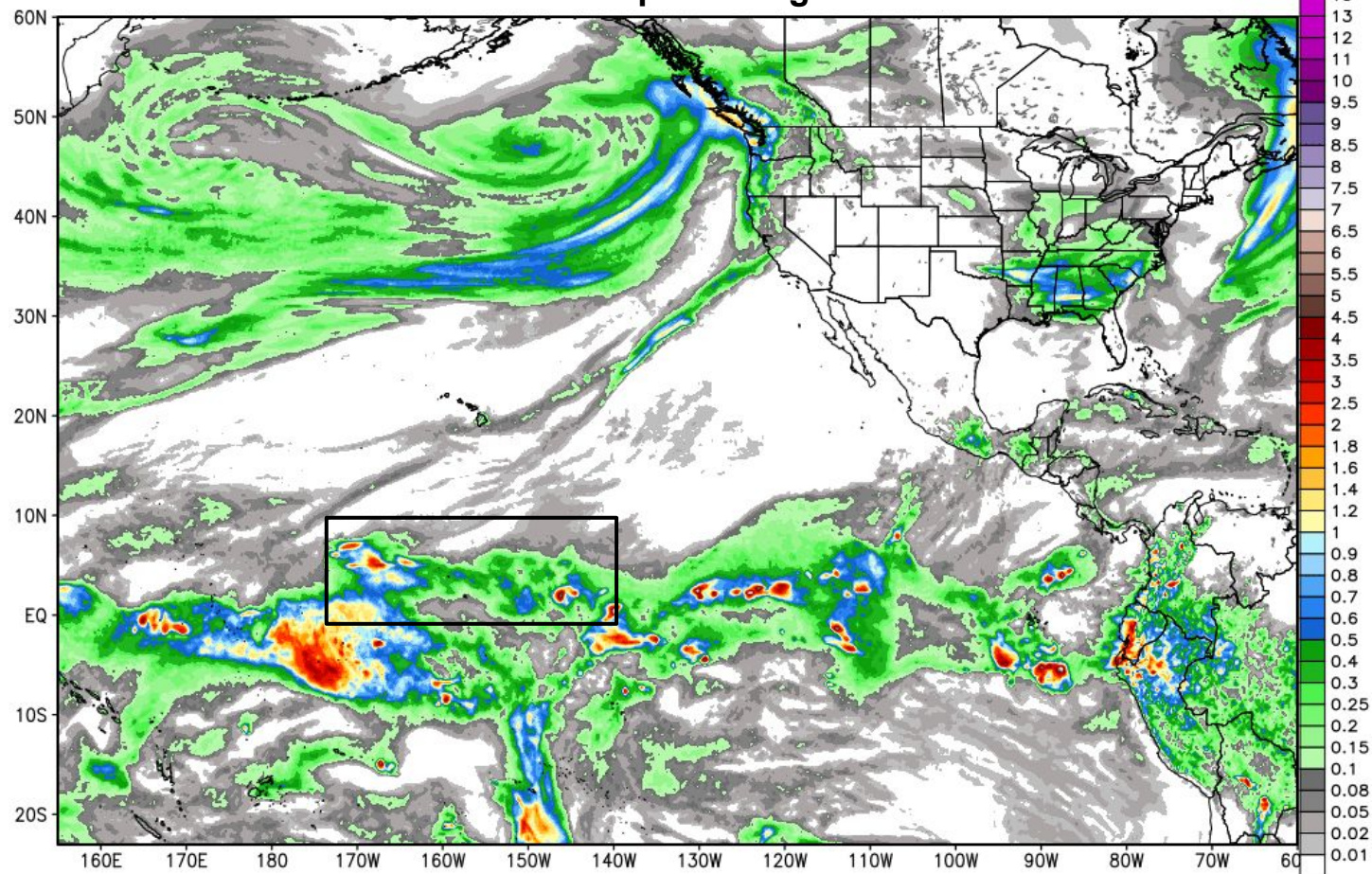


ECMWF Total Precipitation [inches] between 00Z03MAR2016 -- 06Z04MAR2016

INIT: 00Z03MAR2016 fx: [030] hr --> Fri 06Z04MAR2016

Max 9.1 in

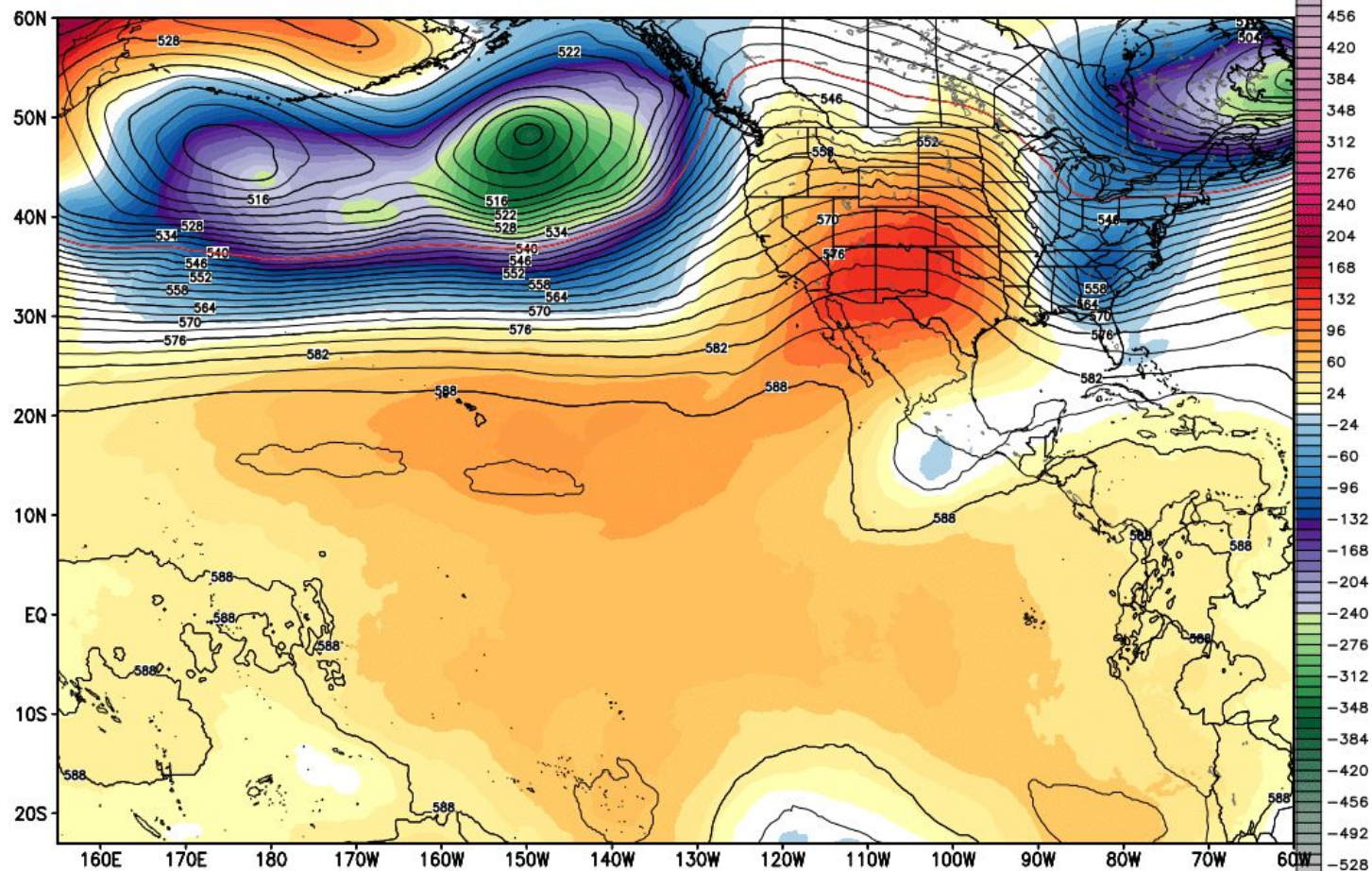
Latest GFS 30 HR Total Pcpn Ending 06Z Fri



ECMWF 500 hPa Geopotential Height [dm] & Anomaly [m]
INIT: 00Z03MAR2016 fx: [030] hr --> Fri 06Z04MAR2016

-388 | 202 m

Latest: 30HR Lead EC Valid 06Z Fri

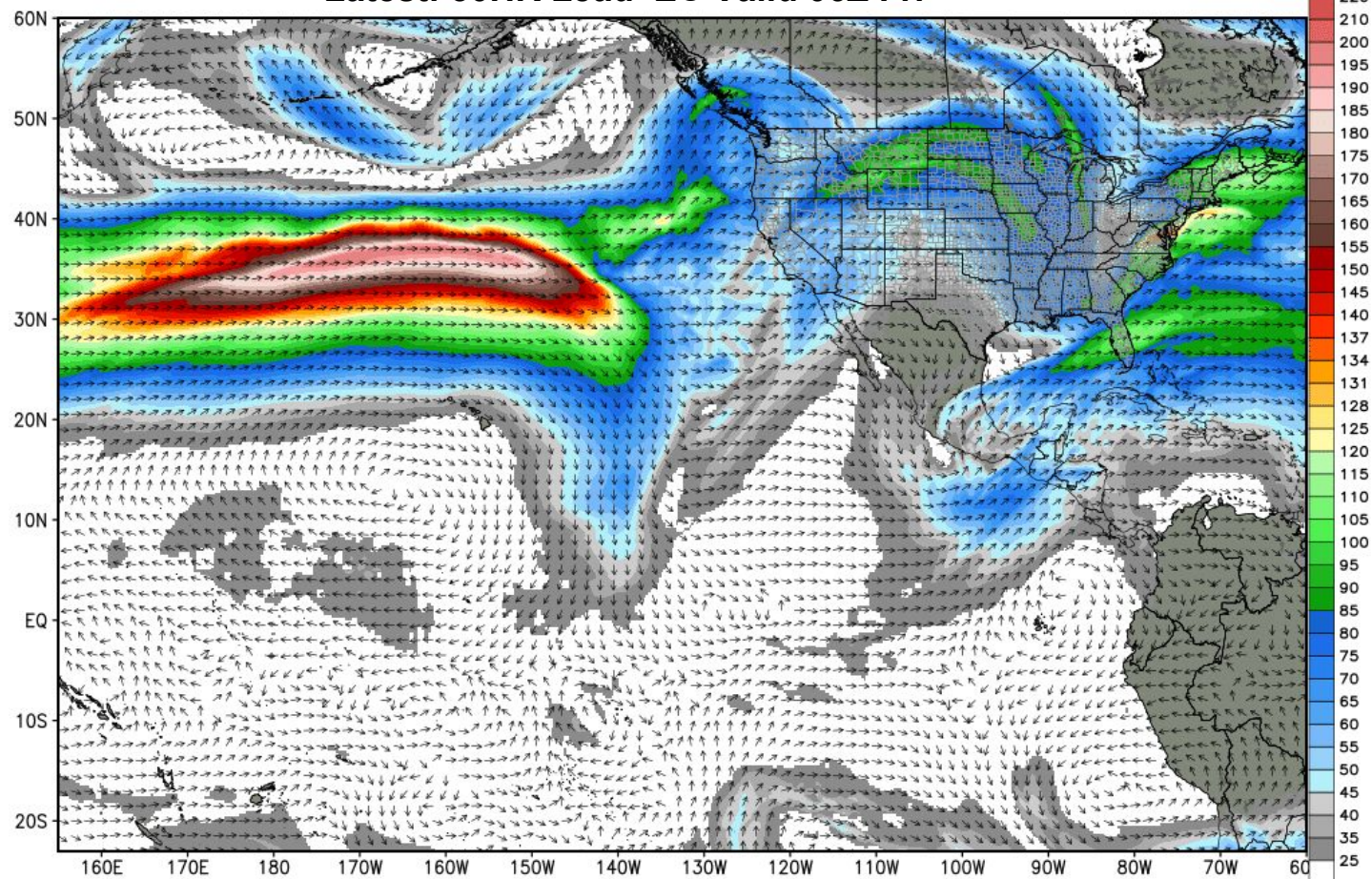


ECMWF 300 hPa Wind Speed & Vector Direction [knots]

INIT: 00Z03MAR2016 fx: [030] hr --> Fri 06Z04MAR2016

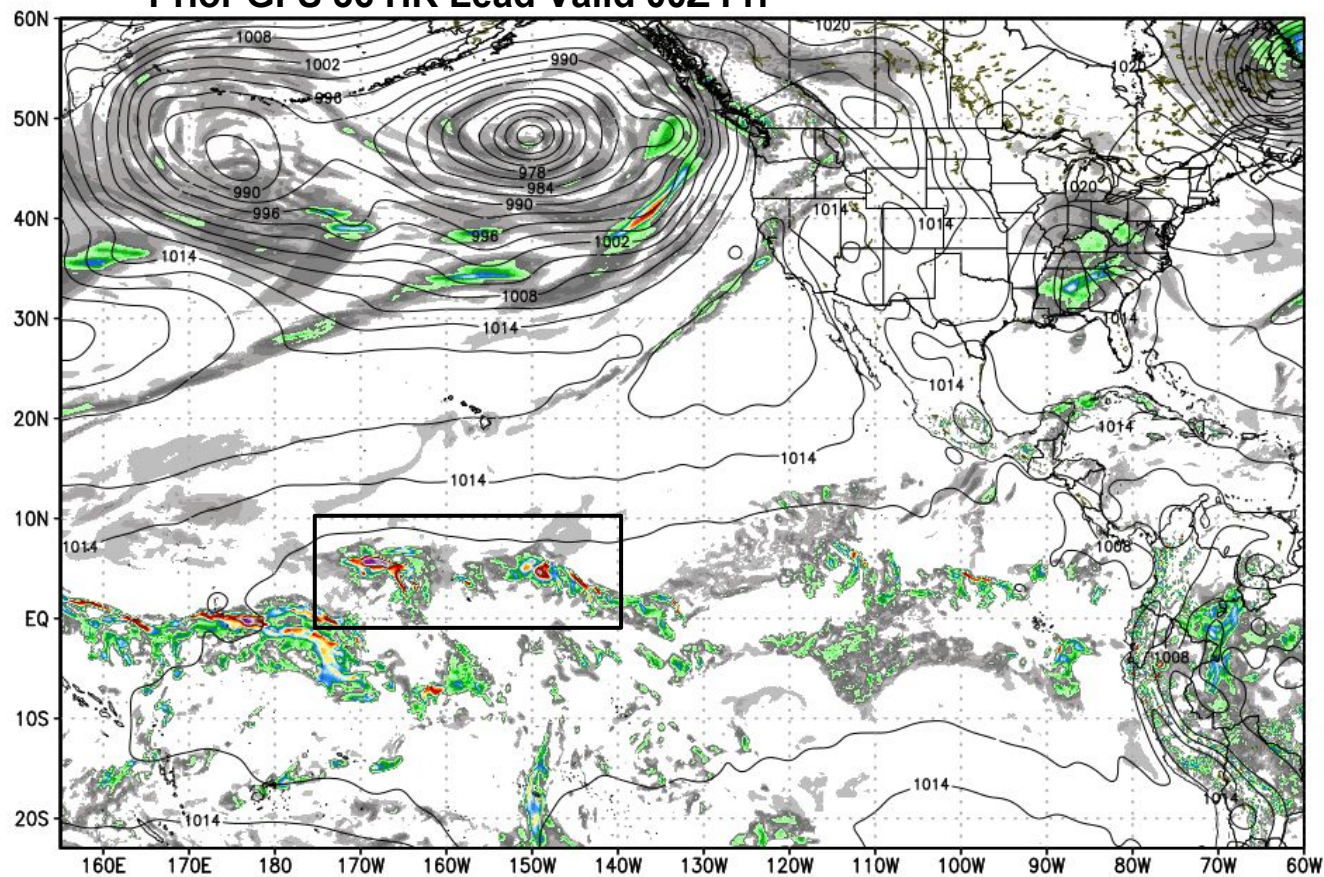
Max Wind 199.9 knots

Latest: 30HR Lead EC Valid 06Z Fri

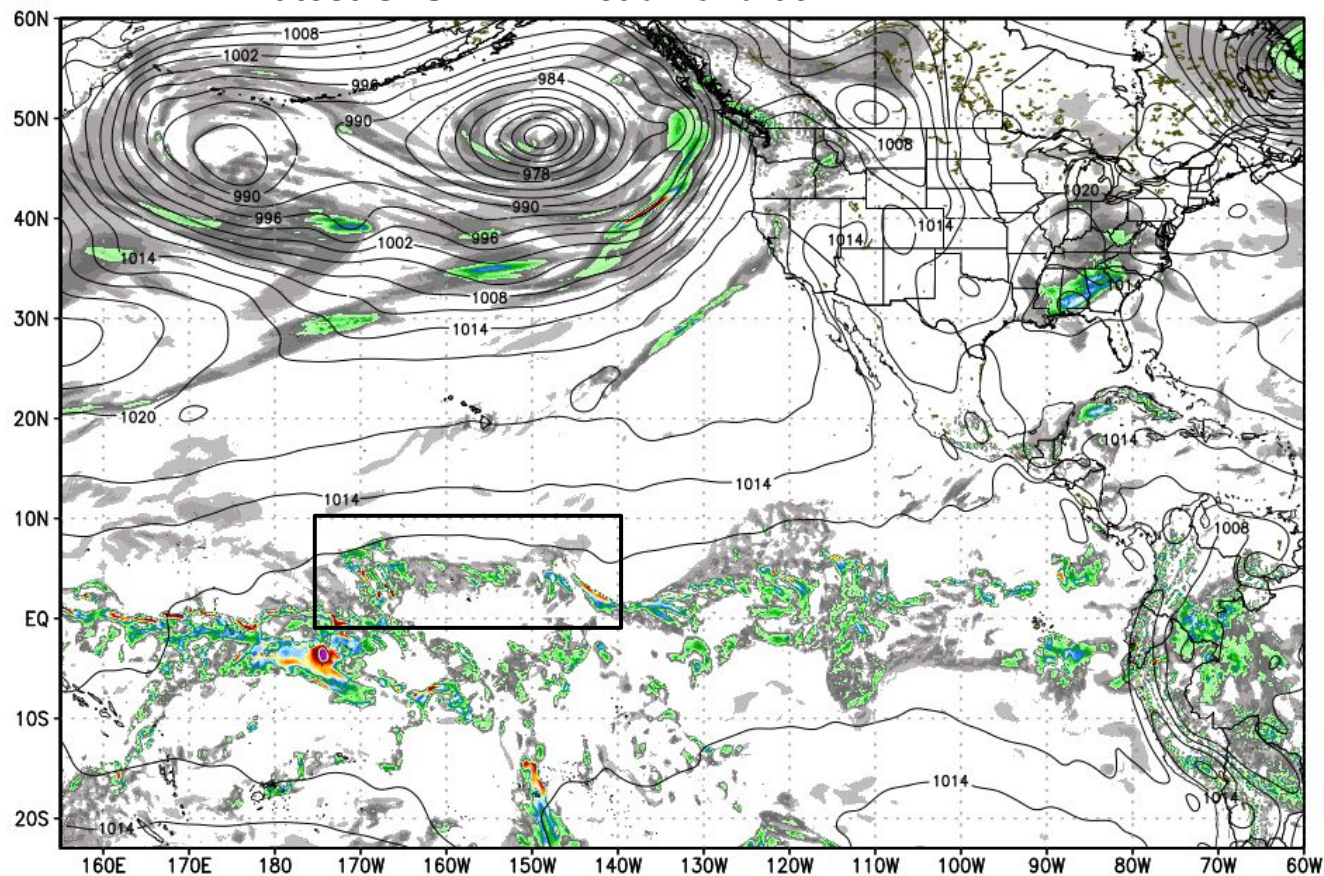


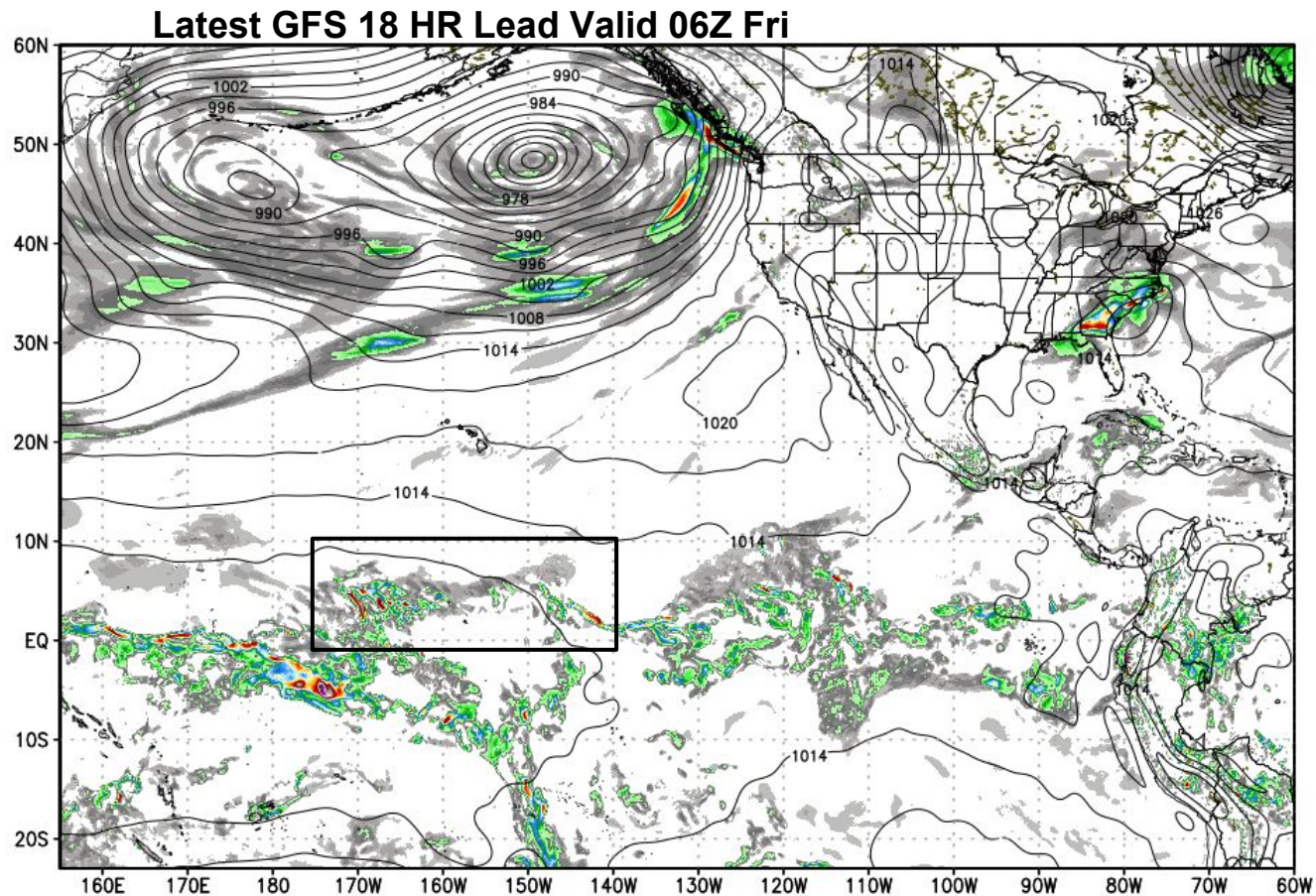
GFS Fcst from 12Z Thu Initializations

Prior GFS 36 HR Lead Valid 00Z Fri

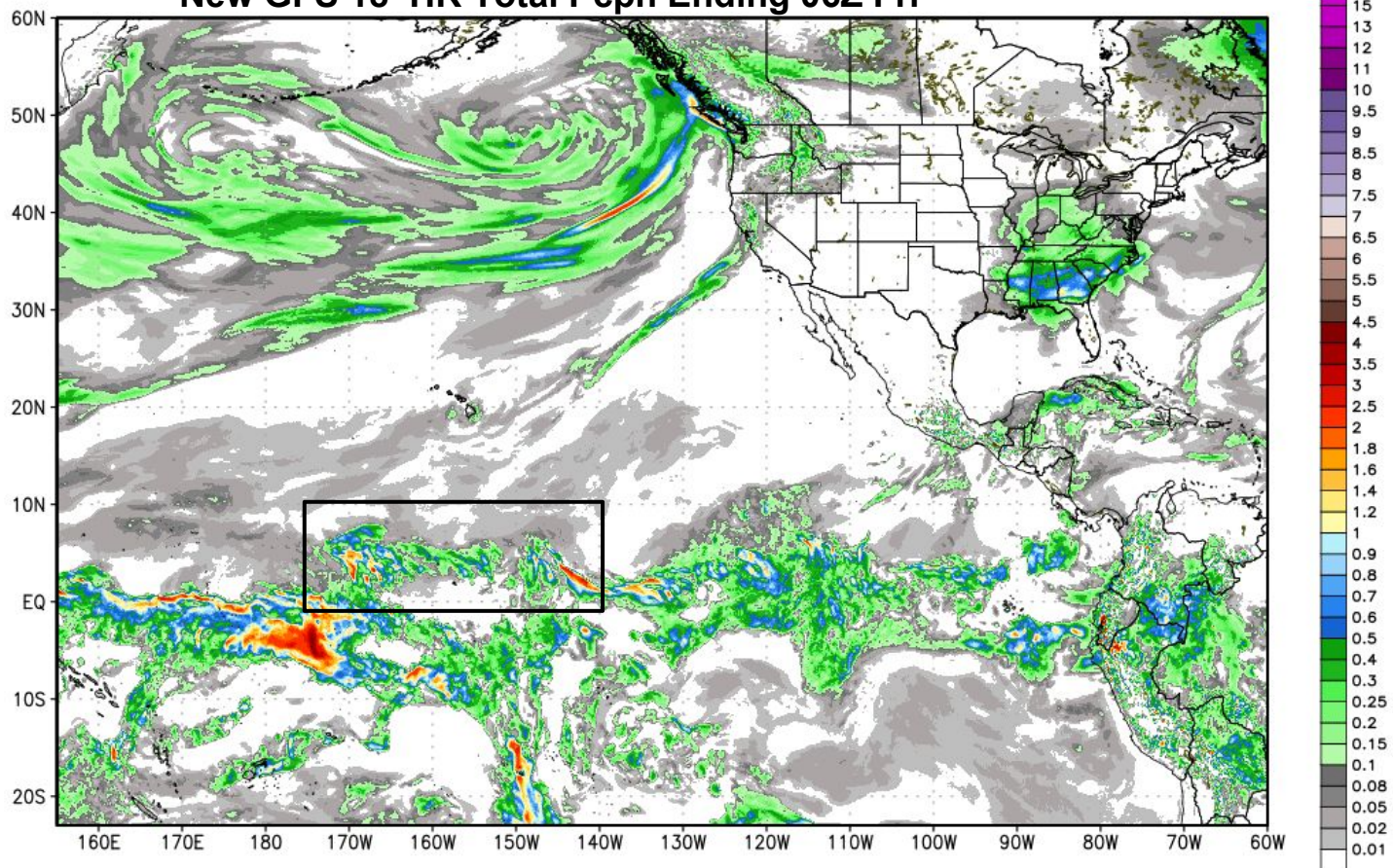


Latest GFS 12 HR Lead Valid 00Z Fri





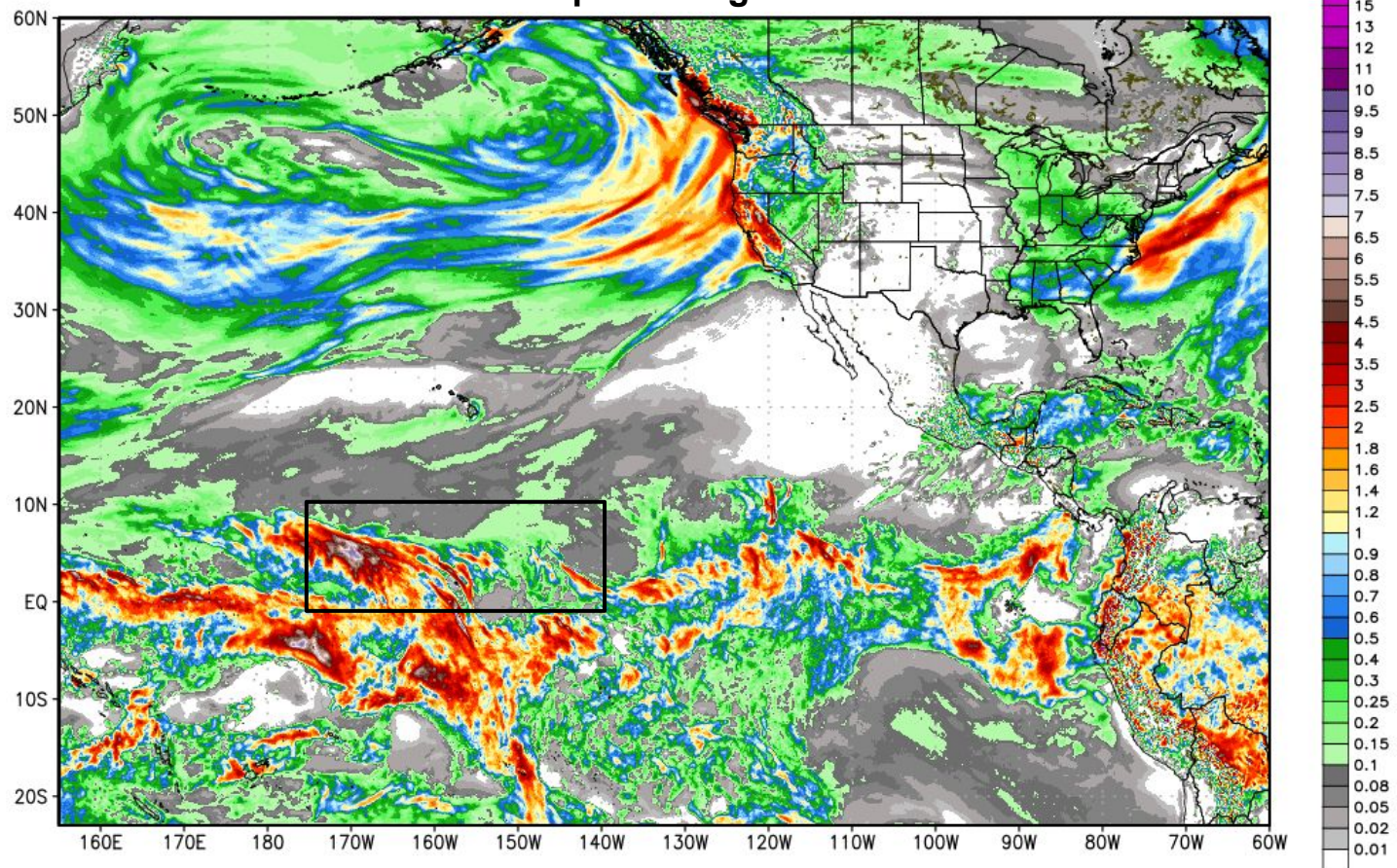
New GFS 18 HR Total Pcpn Ending 06Z Fri



NCEP GFS Accum Precip [inch]
INIT: 12Z03MAR2016 fx: [078] hr --> Sun 18Z06MAR2016

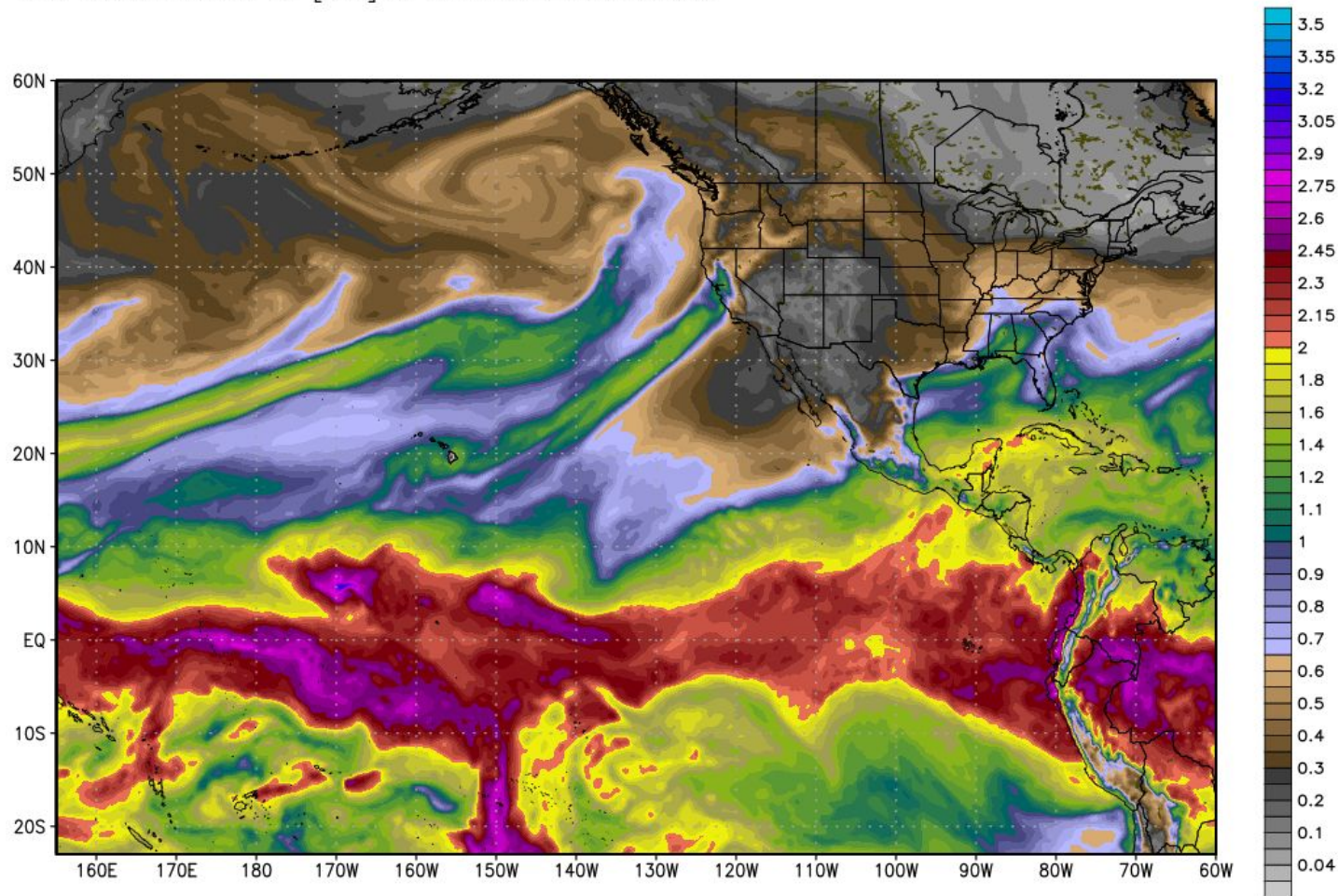
Max: 35.7 in.

New GFS 78 HR Total Pcpn Ending 18Z Sun

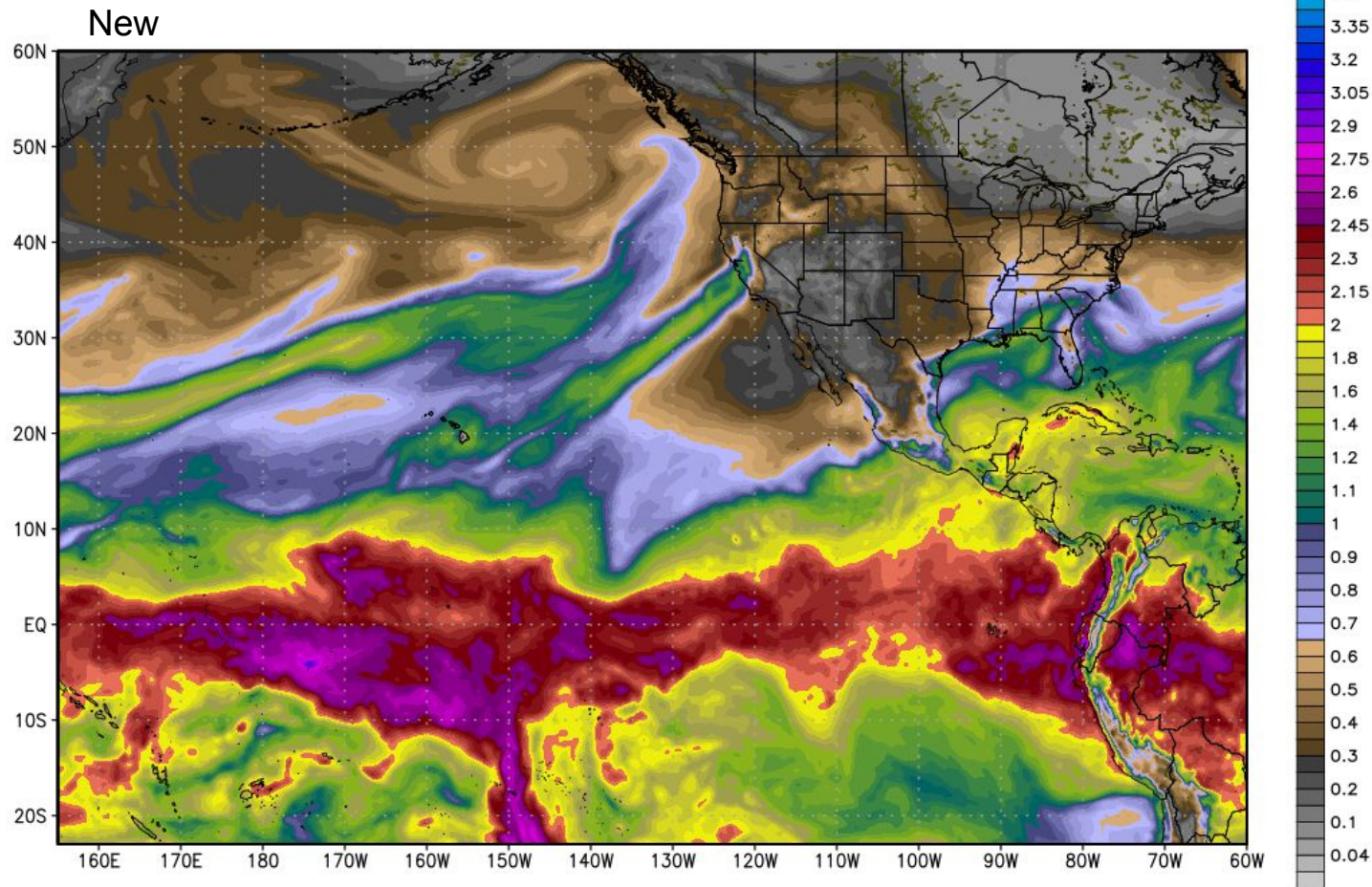


GFS PWAT

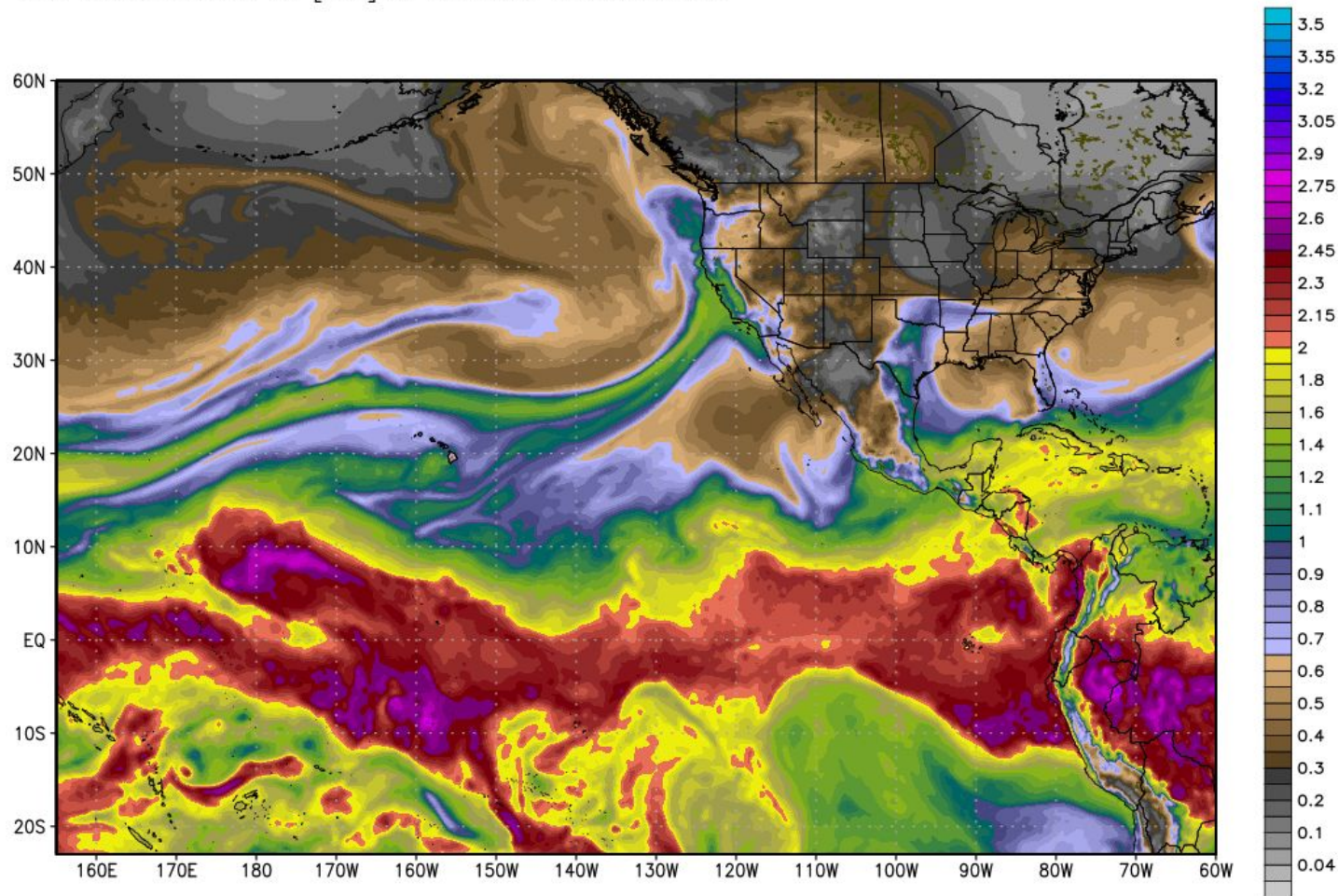
NCEP GFS Precipitable Water [inch]
INIT: 12Z02MAR2016 fx: [036] hr --> Fri 00Z04MAR2016



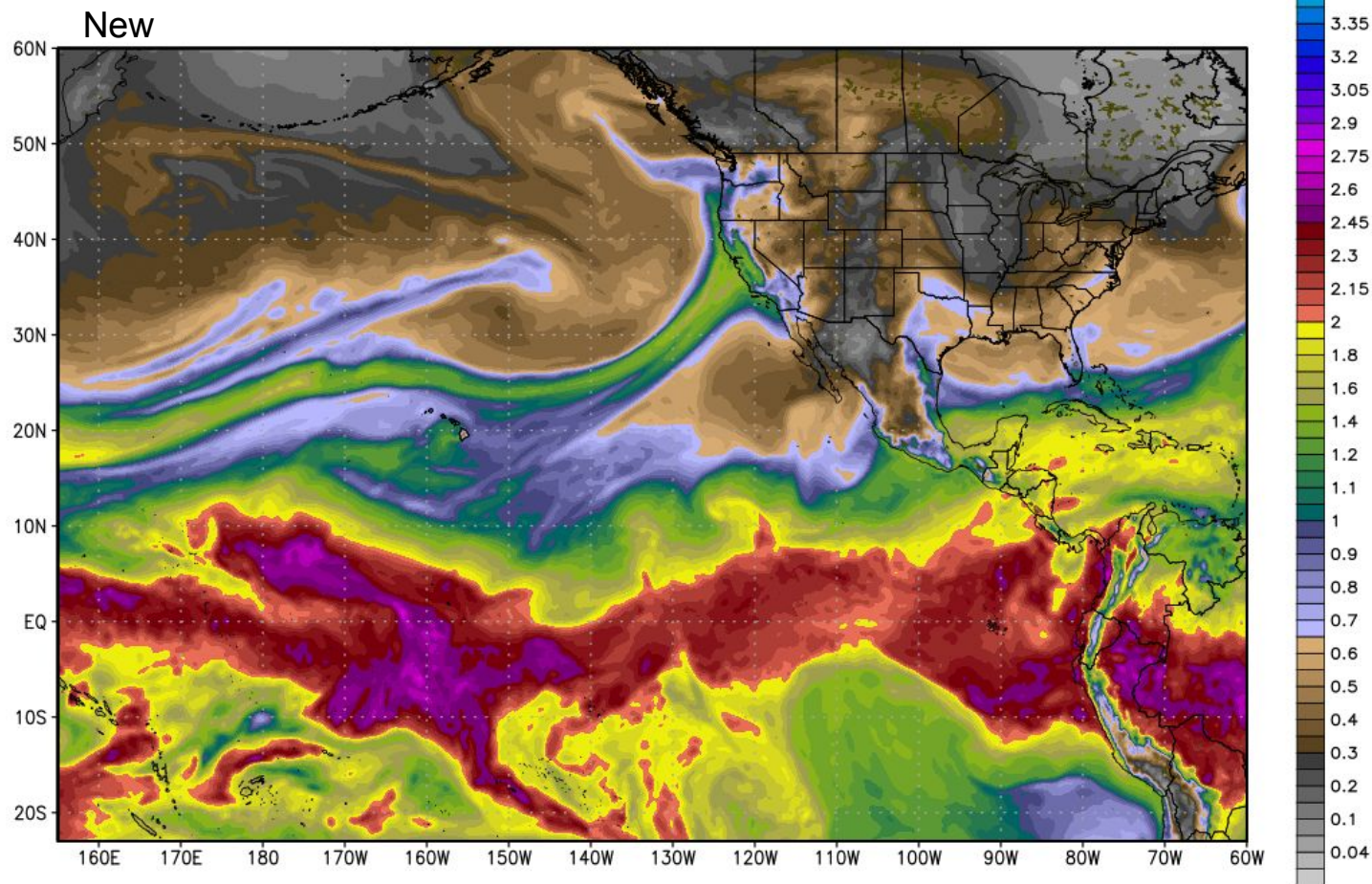
NCEP GFS Precipitable Water [inch]
INIT: 12Z03MAR2016 fx: [012] hr --> Fri 00Z04MAR2016



NCEP GFS Precipitable Water [inch]
INIT: 12Z02MAR2016 fx: [084] hr --> Sun 00Z06MAR2016



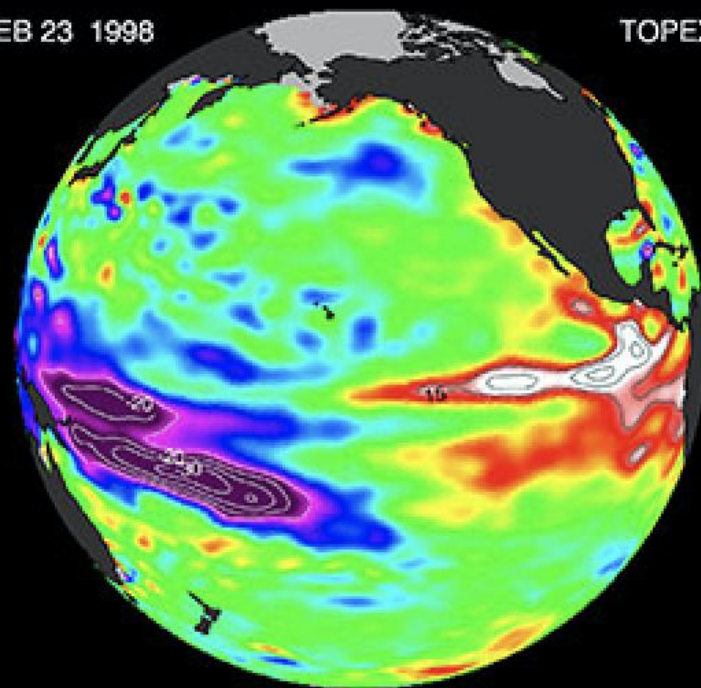
NCEP GFS Precipitable Water [inch]
INIT: 12Z03MAR2016 fx: [060] hr --> Sun 00Z06MAR2016



Getting Out of Dodge in Nick of Time?

FEB 23 1998

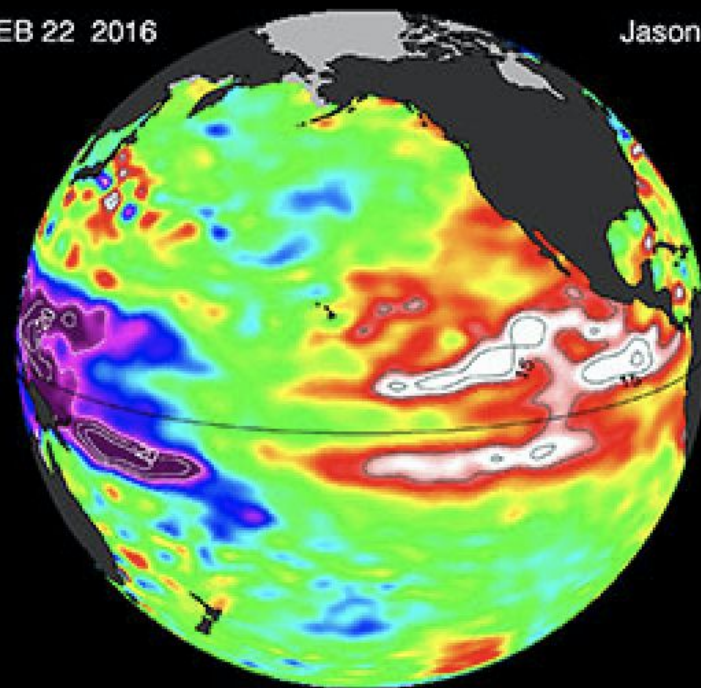
TOPEX/POS



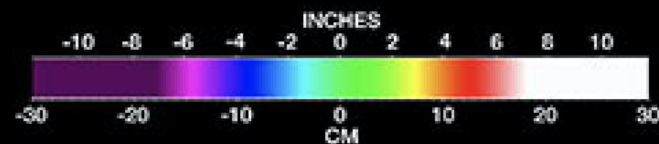
TOPEX/Poseidon 1998

FEB 22 2016

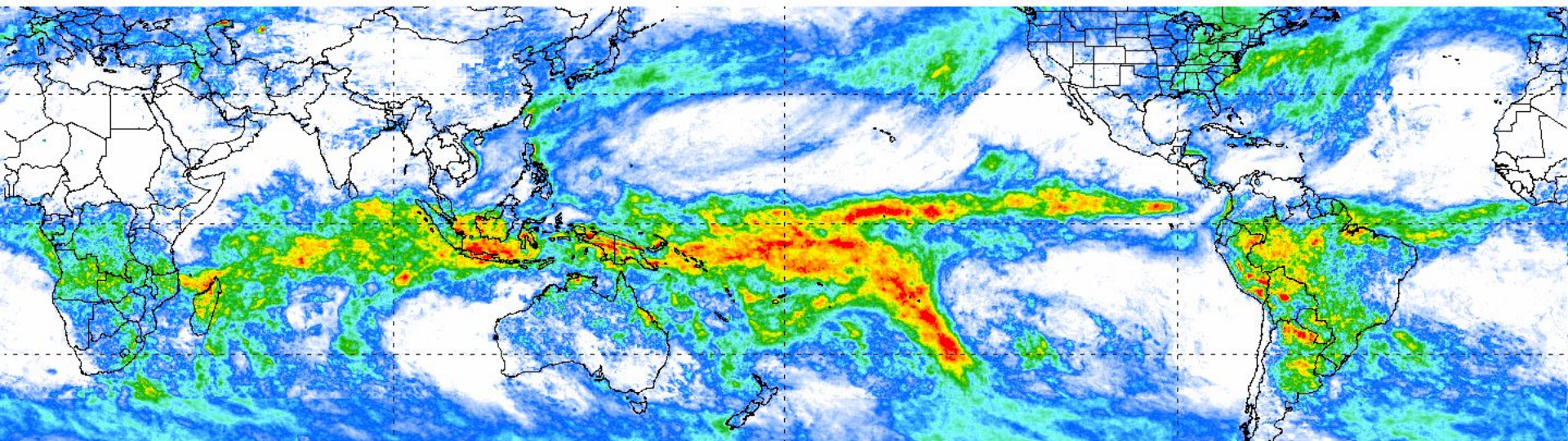
Jason-2



Jason-2 2016



Satellite Estimated February 2016 Pcpn



2 MAR 2016

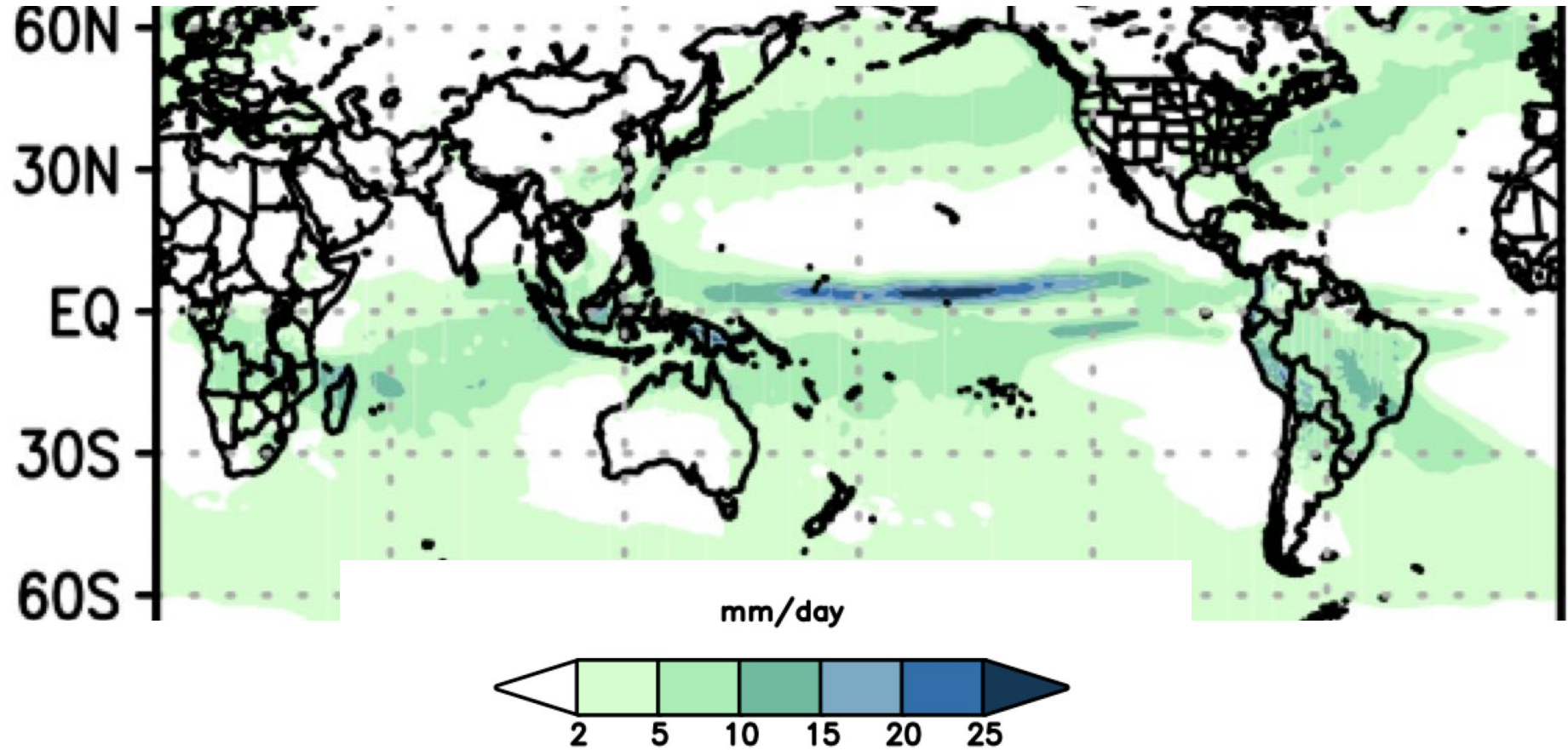
Average Rainfall
For Last 30 Days (mm/d)

0 5 10 15 20

February 2016 Monthly Pcpn
Satellite Estimate vs GEFS Initialized (>15 Day)

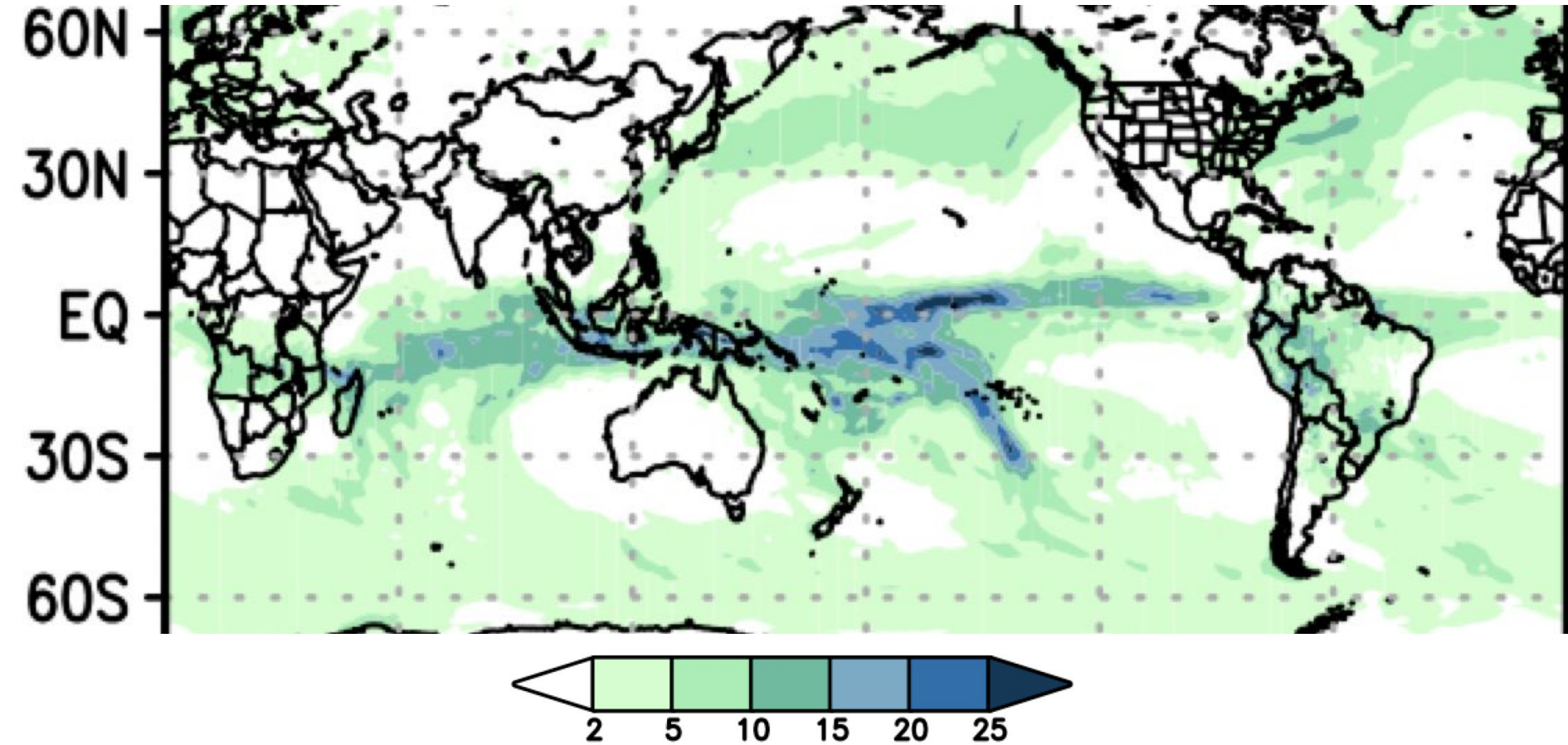
GEFS >15-Day Lead Fcsts : February 2016

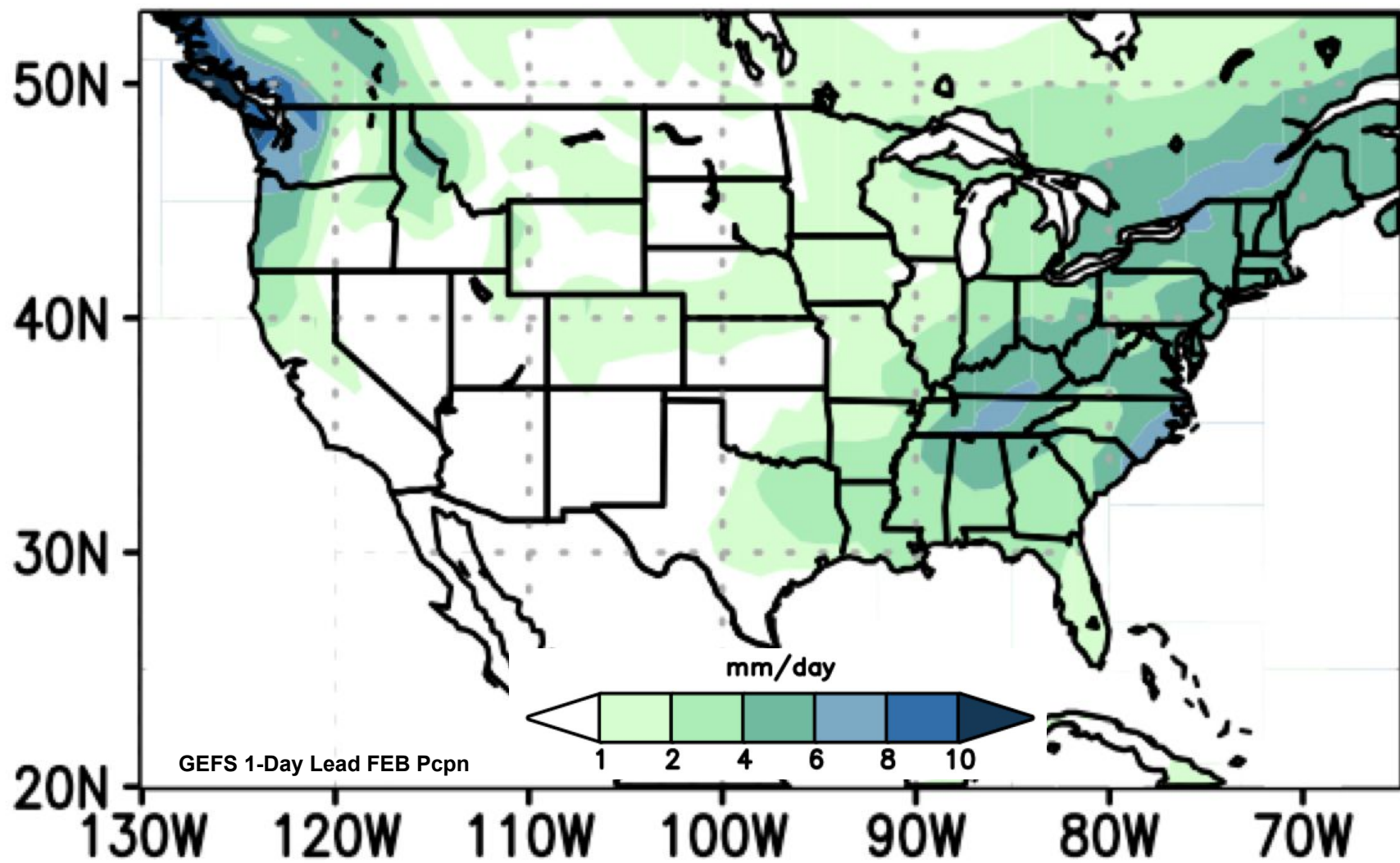
Tao Zhang and TaiYi Xu

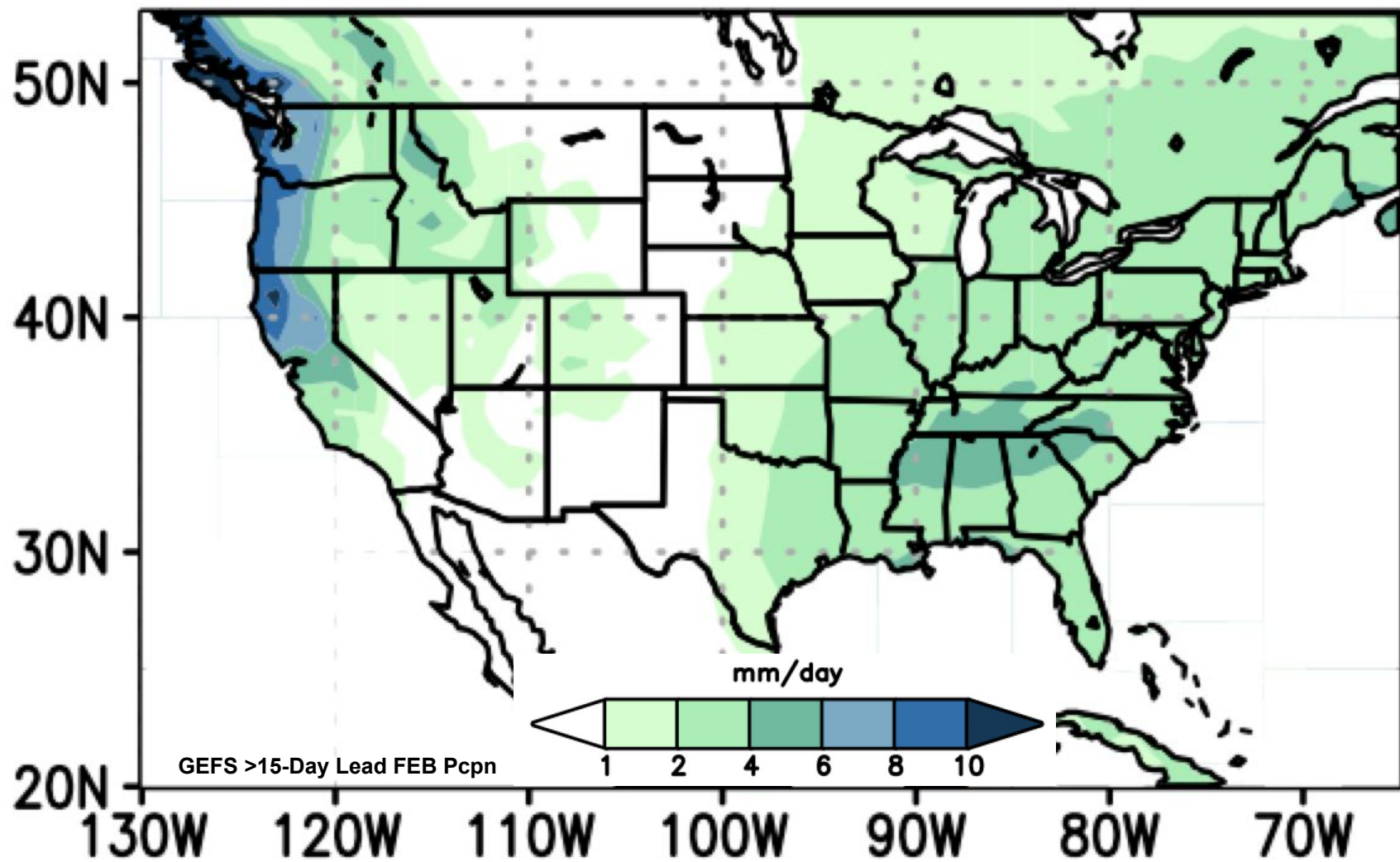


GEFS 1-Day Lead Fcsts : February 2016

Tao Zhang and TaiYi Xu



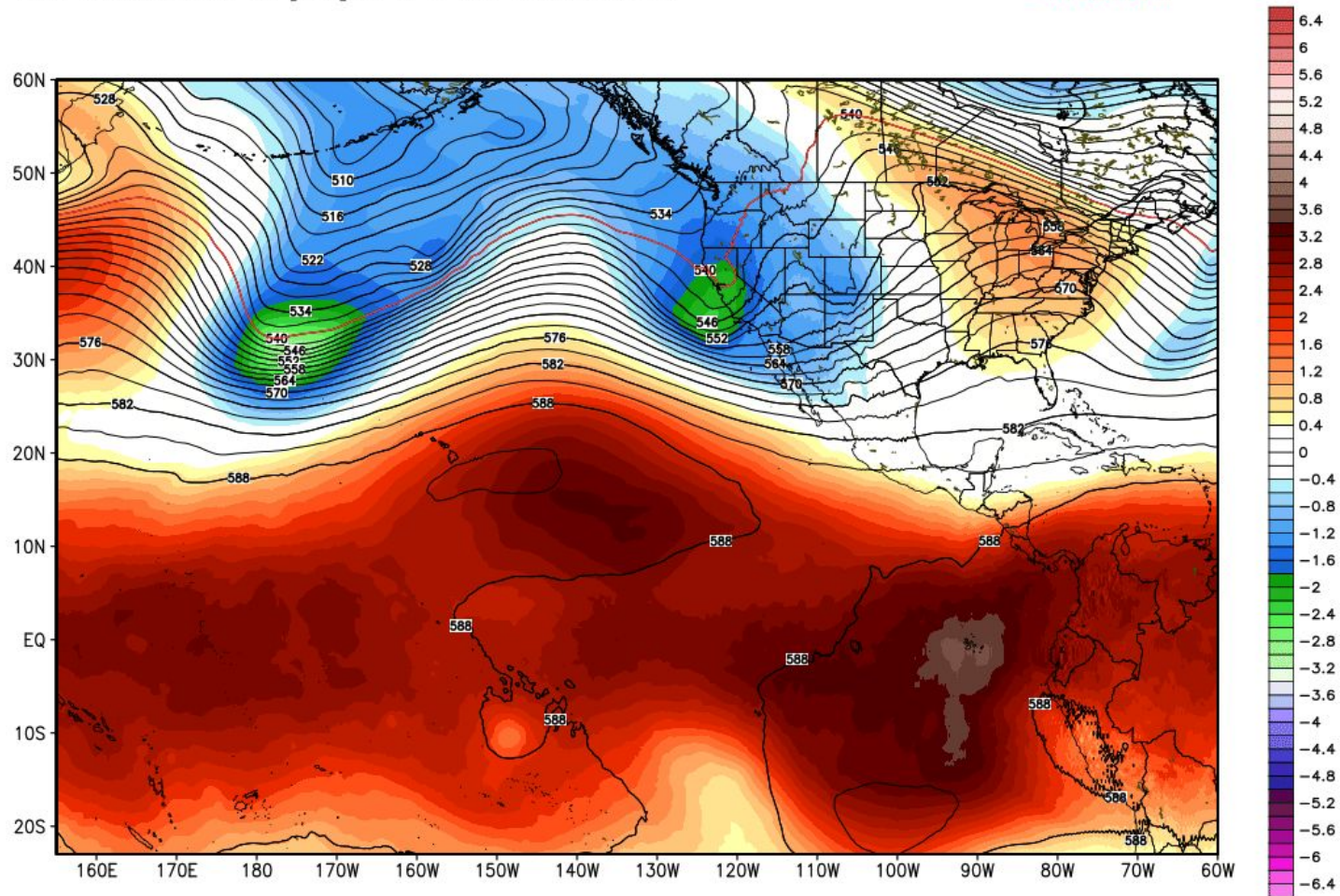




HYSPLIT: Joe Barsugli Quick-Look Analysis

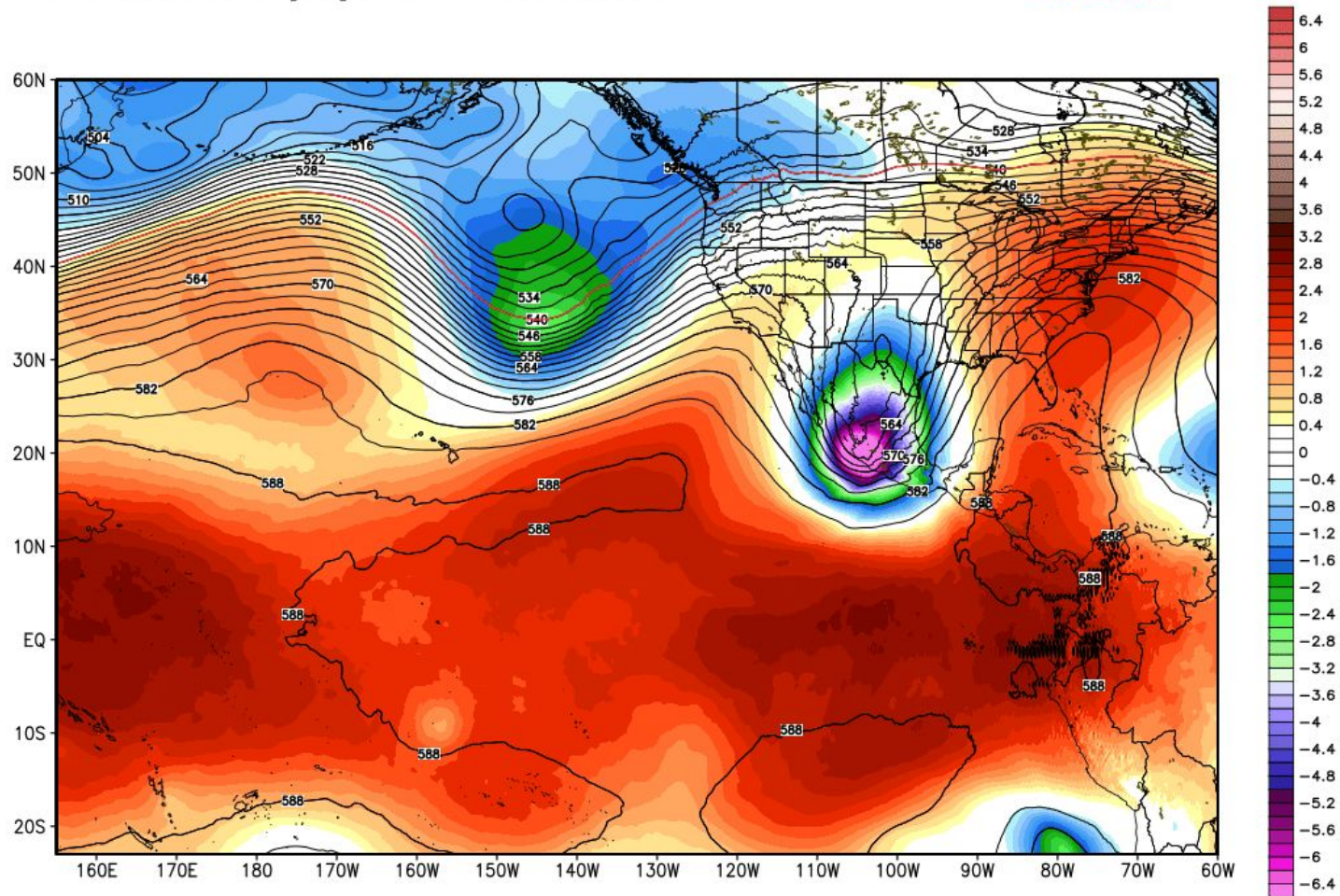
NCEP GFS [T1534] 500 hPa Geopotential Height [dm] & Normalized Anomaly [standard deviations from climo]
INIT: 12Z02MAR2016 fx: [120] hr --> Mon 12Z07MAR2016

-3.0 | 3.7 sigma



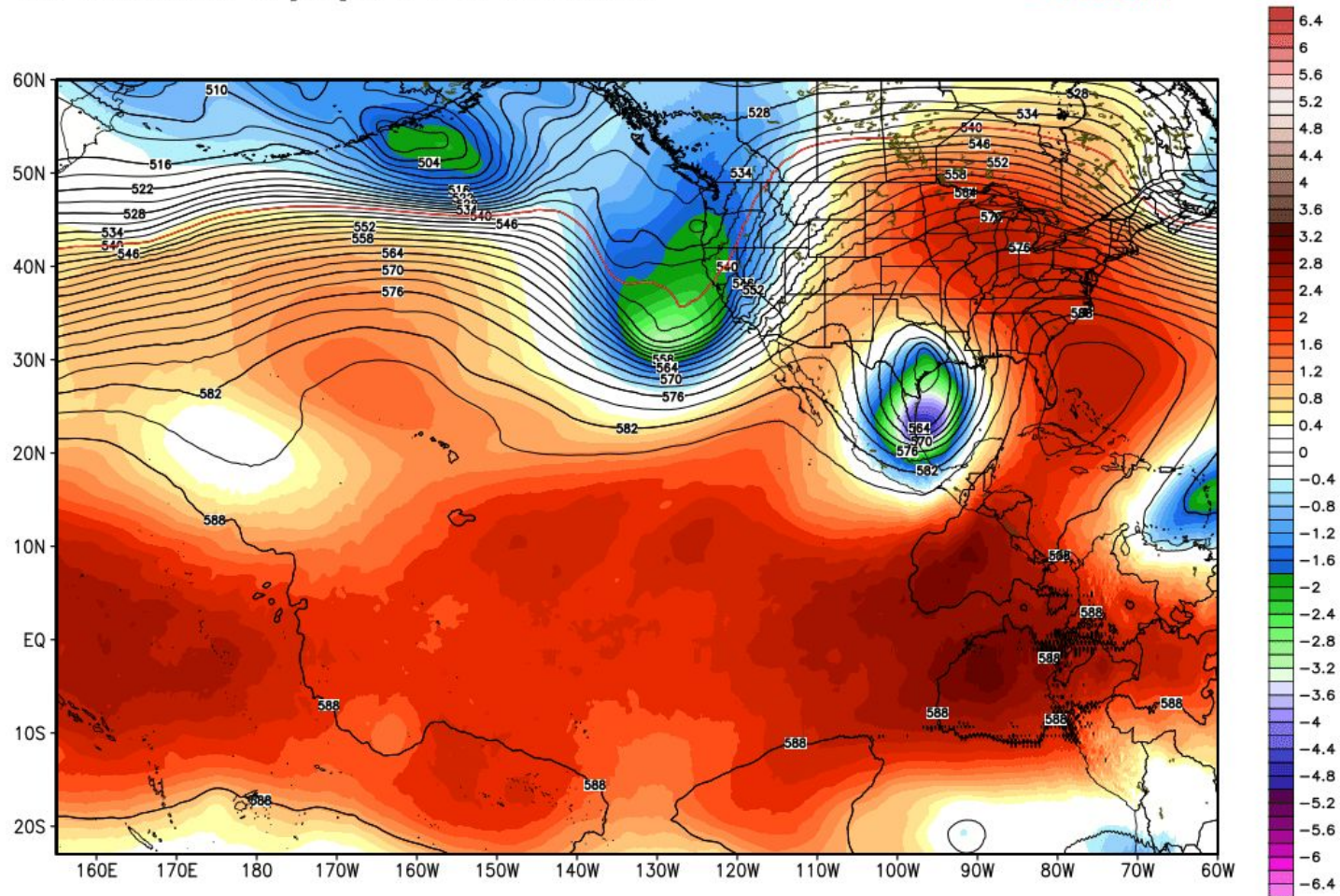
NCEP GFS [T1534] 500 hPa Geopotential Height [dm] & Normalized Anomaly [standard deviations from climo]
INIT: 12Z02MAR2016 fx: [180] hr --> Thu 00Z10MAR2016

-8.2 | 3.5 sigma



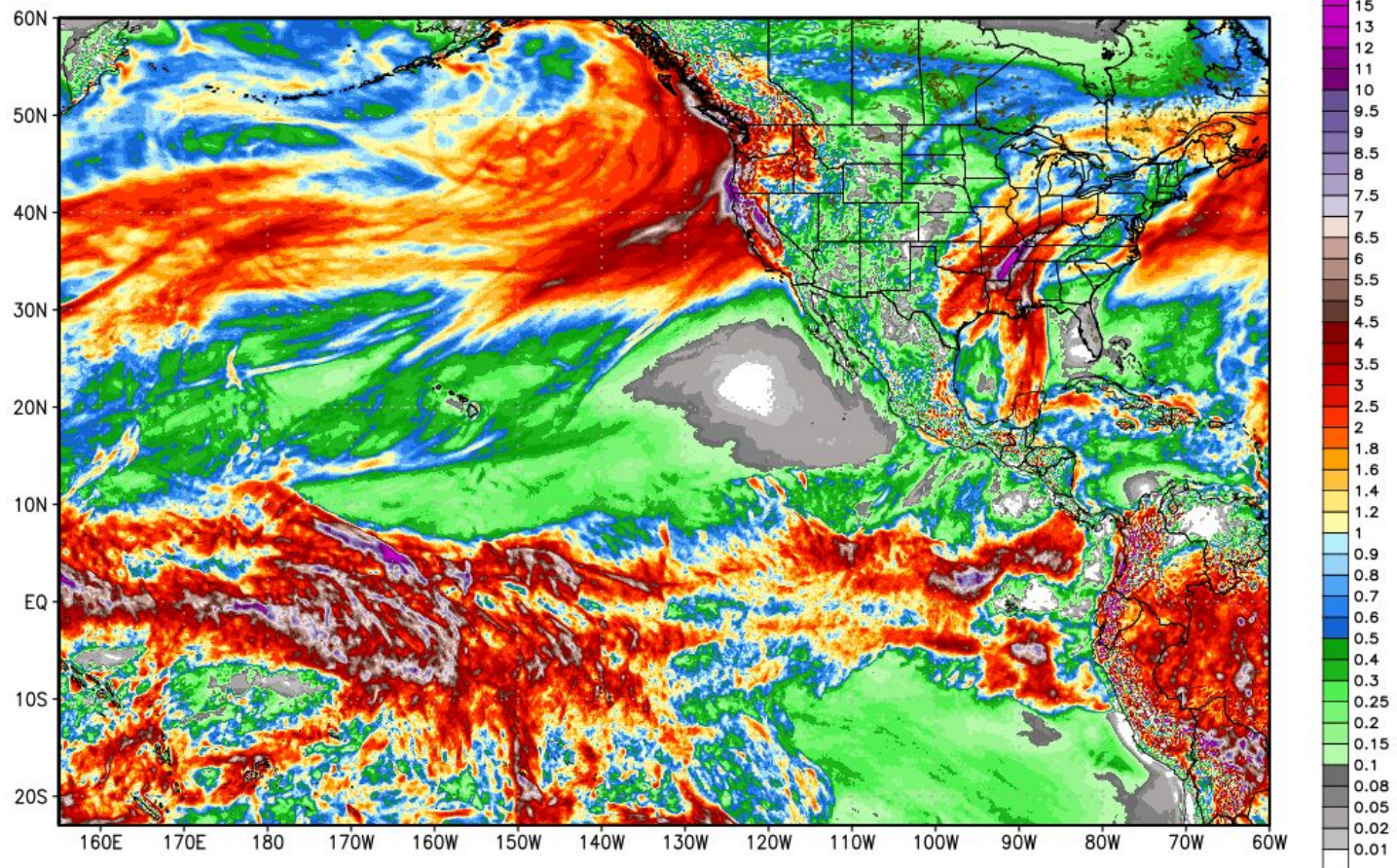
NCEP GFS [T1534] 500 hPa Geopotential Height [dm] & Normalized Anomaly [standard deviations from climo]
INIT: 12Z02MAR2016 fx: [216] hr --> Fri 12Z11MAR2016

-4.9 | 3.4 sigma



NCEP GFS Accum Precip [inch]
INIT: 12Z02MAR2016 fx: [222] hr --> Fri 18Z11MAR2016

Max: 58.0 in.



ECMWF EPS ENSEMBLE MEAN 5-day Total Precipitation [inch]

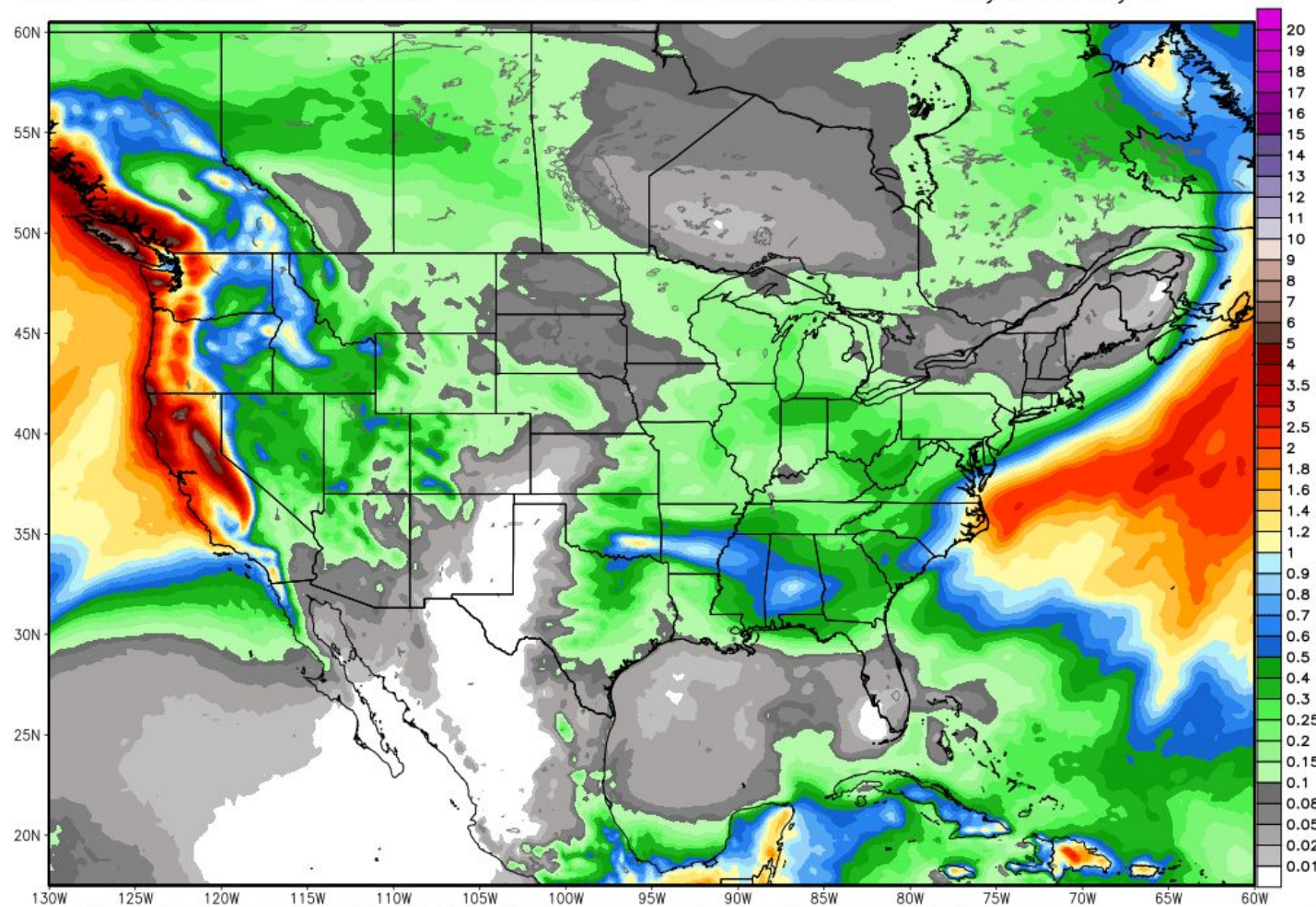
INIT: 00Z03MAR2016

TOTAL FROM

00Z03MAR2016

-- 00Z08MAR2016

Day 0 -- Day 5



Parallel | Test data for Cycle 41r2 Upgrade to HRES March 2016 | Data Copyright ECMWF | WeatherBELL

WxBell

ECMWF EPS ENSEMBLE MEAN 5-day Total Precipitation[inch]

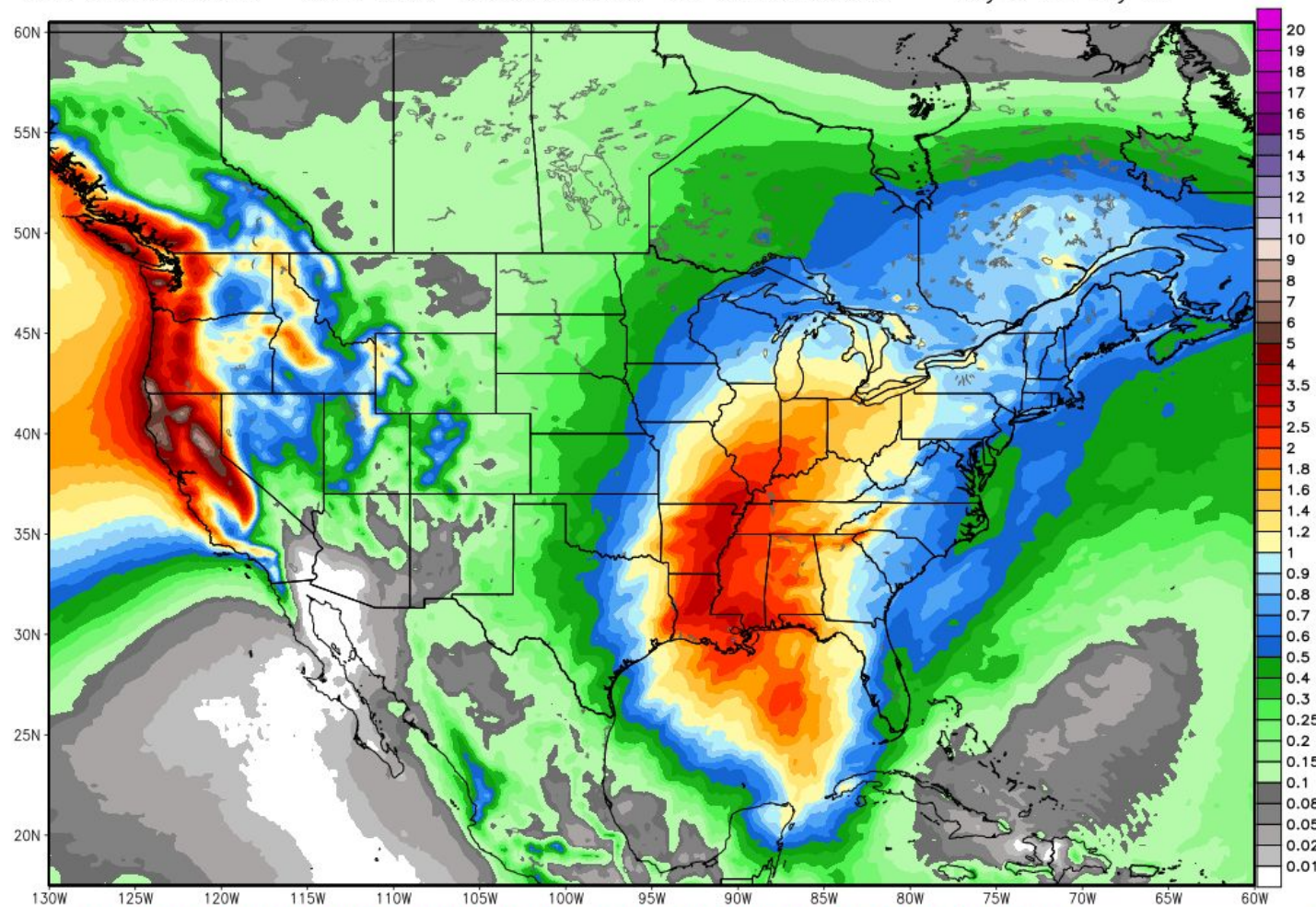
INIT: 00Z03MAR2016

TOTAL FROM

00Z09MAR2016

-- 00Z14MAR2016

Day 6 -- Day 11



Parallel | Test data for Cycle 41r2 Upgrade to HRES March 2016 | Data Copyright ECMWF | WeatherBELL

WxBell

ECMWF EPS ENSEMBLE MEAN 5-day Total Precipitation[inch]

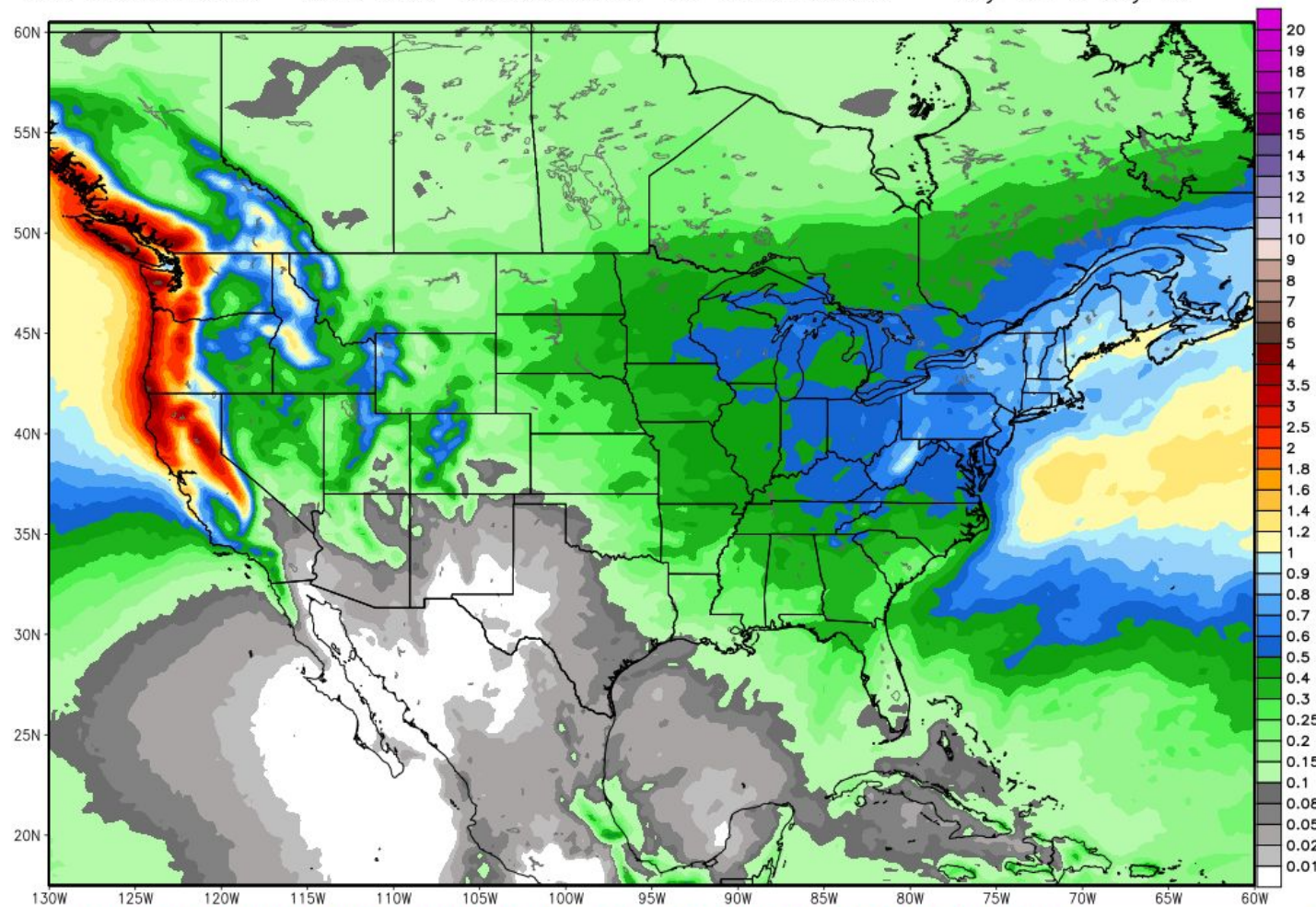
INIT: 00Z03MAR2016

TOTAL FROM

00Z13MAR2016

-- 00Z18MAR2016

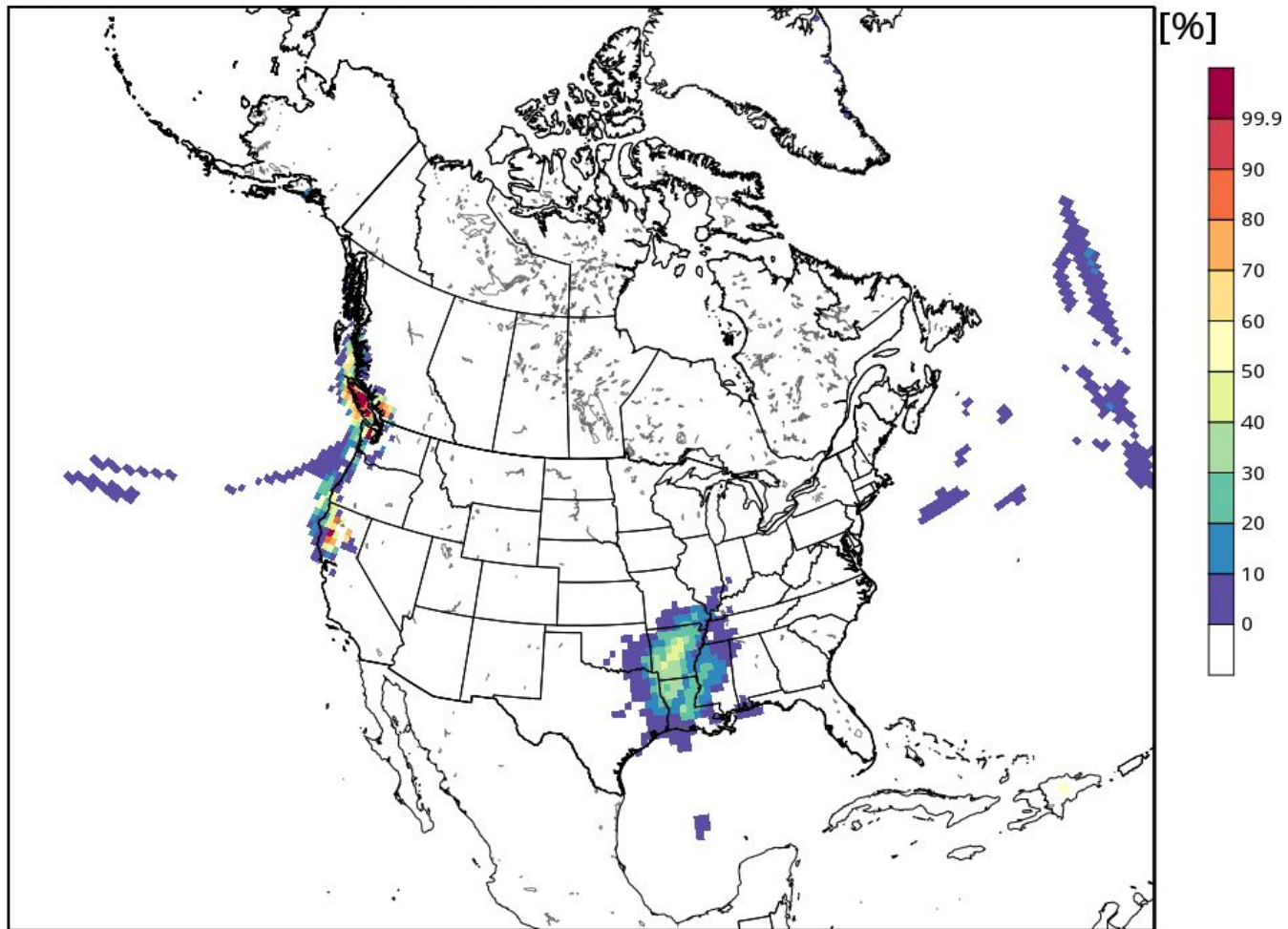
Day 10 -- Day 15



Parallel | Test data for Cycle 41r2 Upgrade to HRES March 2016 | Data Copyright ECMWF | WeatherBELL

WxBell

NCEP GEFS [T574] Probability [%] Total Precipitation $\geq 6.0^{\circ}$ inch +Ensemble Mean Contours
Init: 06Z03MAR2016 +[204] hrs Valid --> Fri 18Z11MAR2016

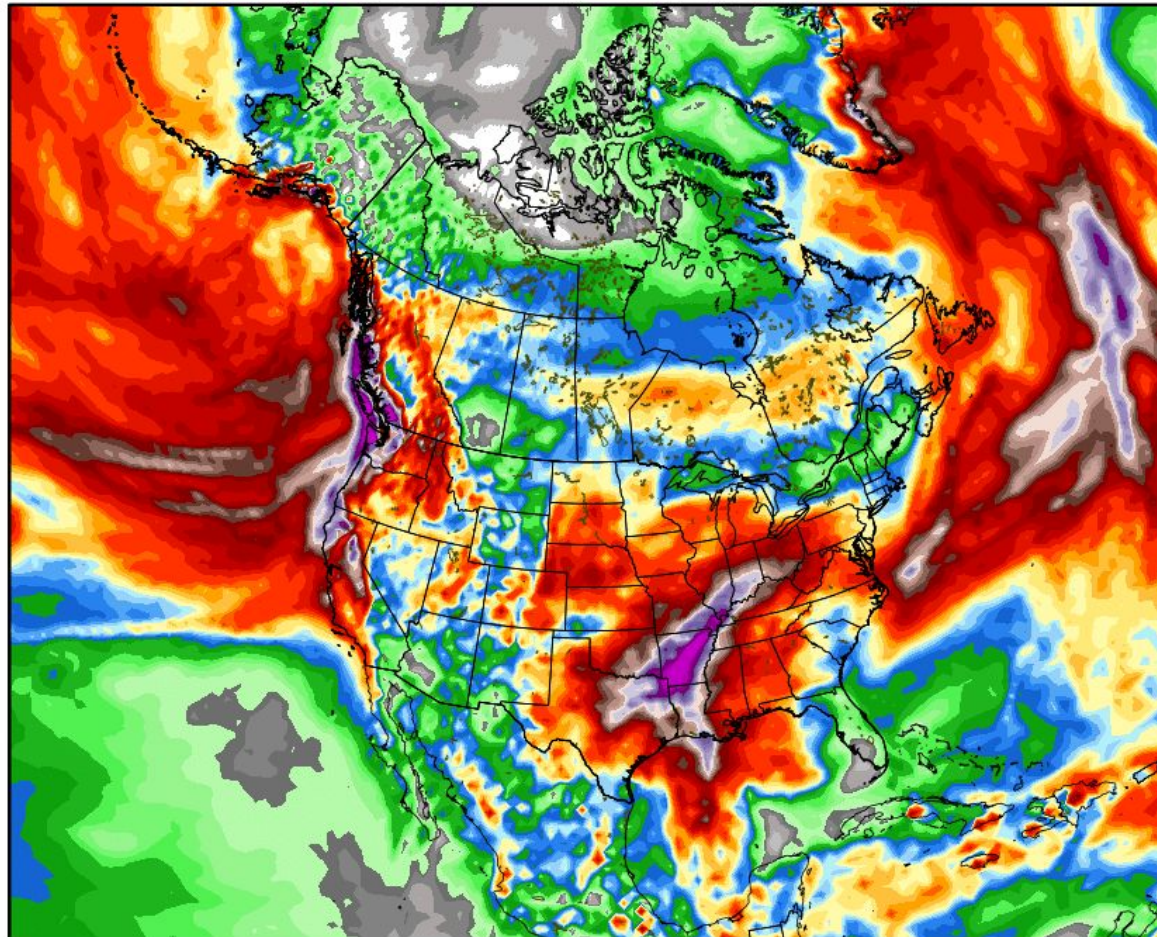


NCEP GFS Accumulated Precipitation [inches]

Init: 12Z03MAR2016 -- [384] hr --> Valid Sat 12Z19MAR2016

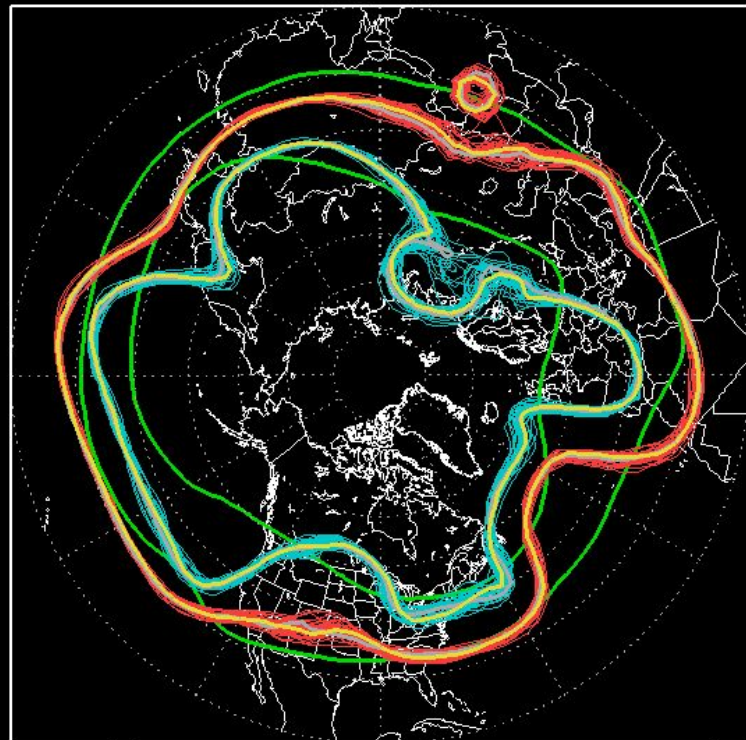
Maximum: 19.5 INCHES

12Z Thu GFS Total Pcpn 16-day Ending Sat 19 Mar



NCEP ENSEMBLE 500mb Z

072H Forecast from: 00Z Thu MAR,03 2016
Valid time: 00Z Sun MAR,06 2016



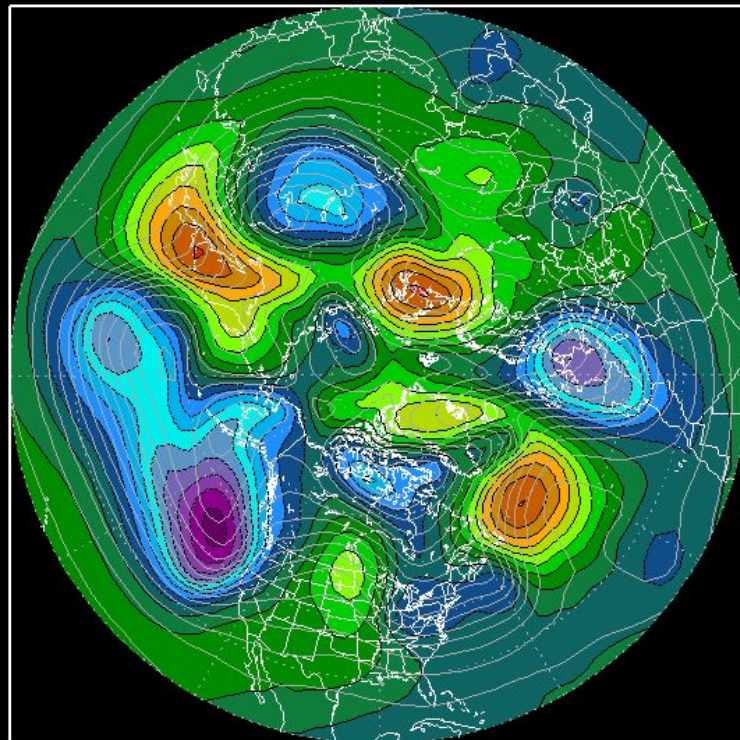
00z Runs:(21)

12z Runs:(21)

— 5460m — 5700m — Cntrl 00z — Cntrl 12z — CLIM

NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

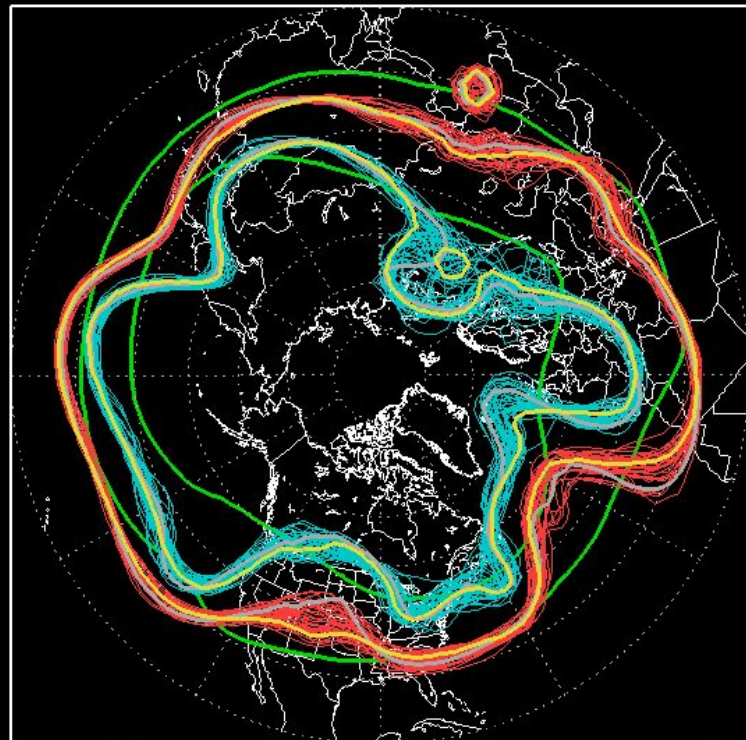
072H Forecast from: 00Z Thu MAR,03 2016
Valid time: 00Z Sun MAR,06 2016



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

NCEP ENSEMBLE 500mb Z

096H Forecast from: 00Z Wed MAR,02 2016
Valid time: 00Z Sun MAR,06 2016



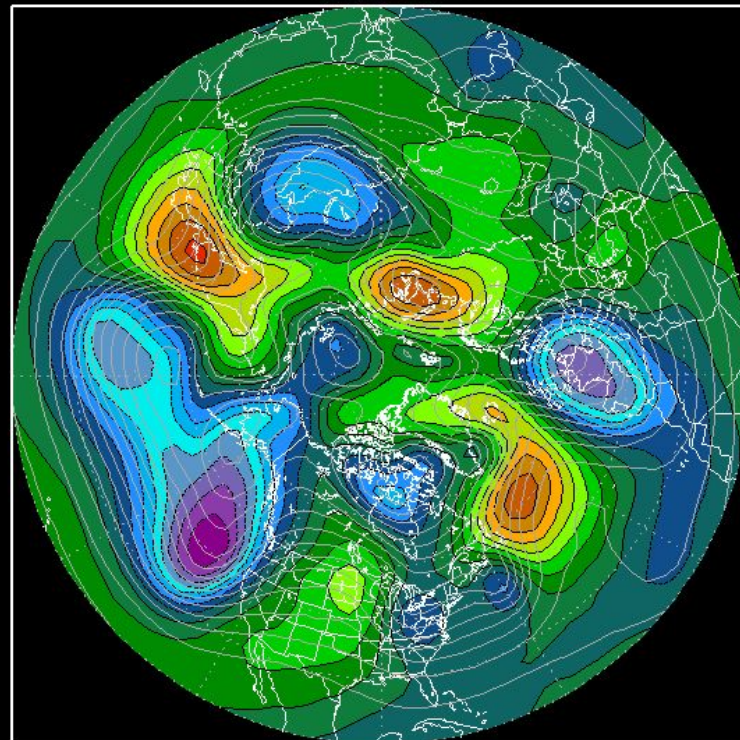
00z Runs:(21)

12z Runs:(21)

— 5460m — 5700m — Cntrl 00z — Cntrl 12z — CLIM

NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

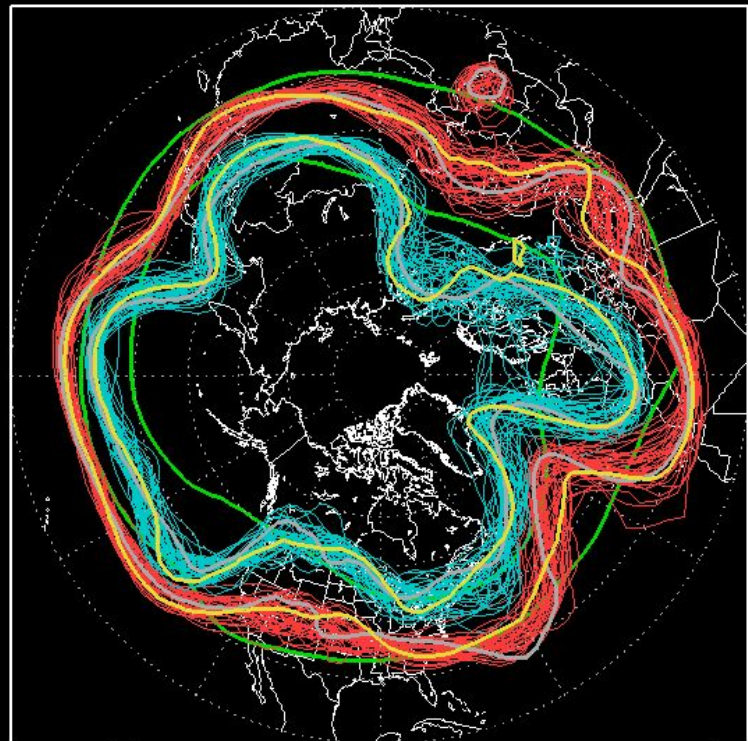
096H Forecast from: 00Z Wed MAR,02 2016
Valid time: 00Z Sun MAR,06 2016



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

NCEP ENSEMBLE 500mb Z

144H Forecast from: 00Z Mon FEB,29 2016
Valid time: 00Z Sun MAR,06 2016

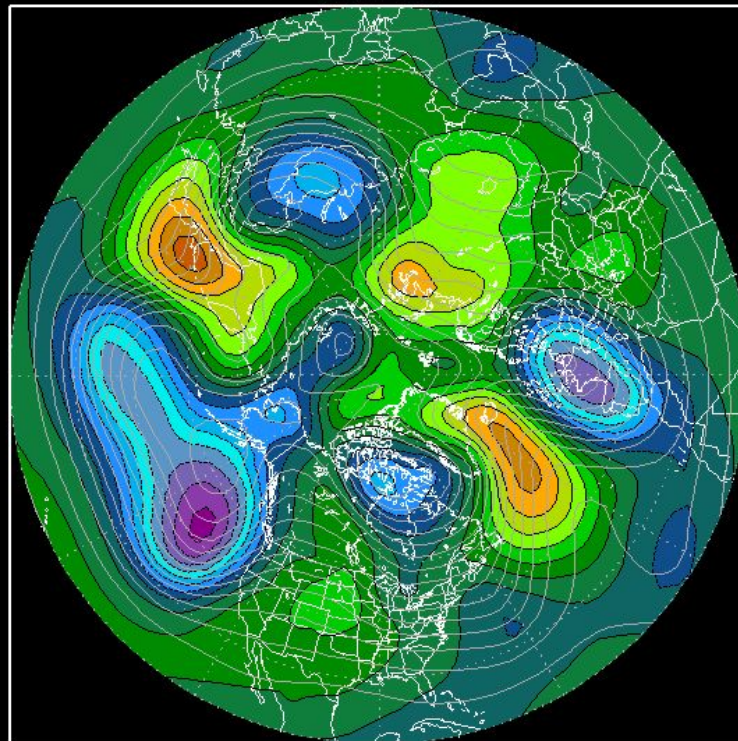


00z Runs:(21) 12z Runs:(21)

5460m 5700m Cntrl 00z Cntrl 12z CLIM

NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

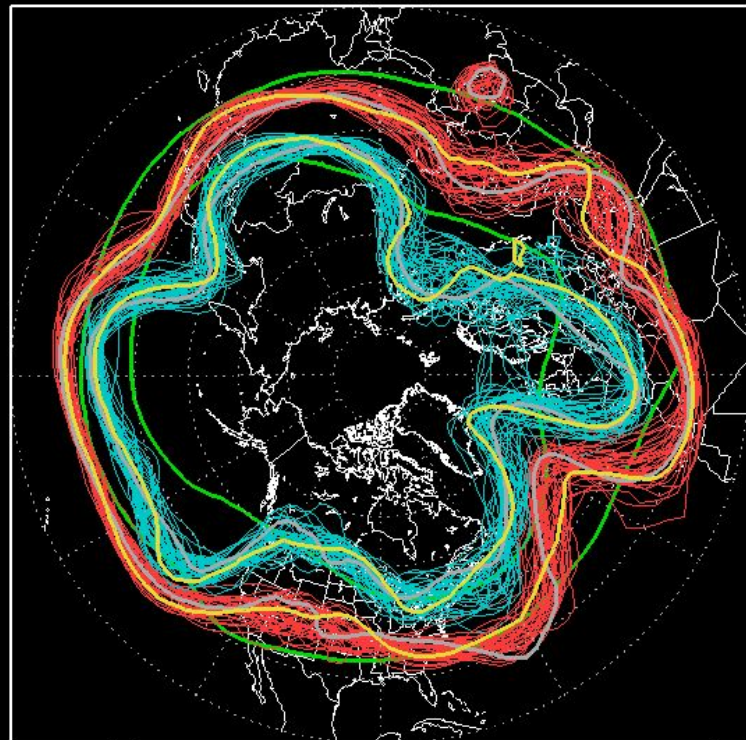
144H Forecast from: 00Z Mon FEB,29 2016
Valid time: 00Z Sun MAR,06 2016



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

NCEP ENSEMBLE 500mb Z

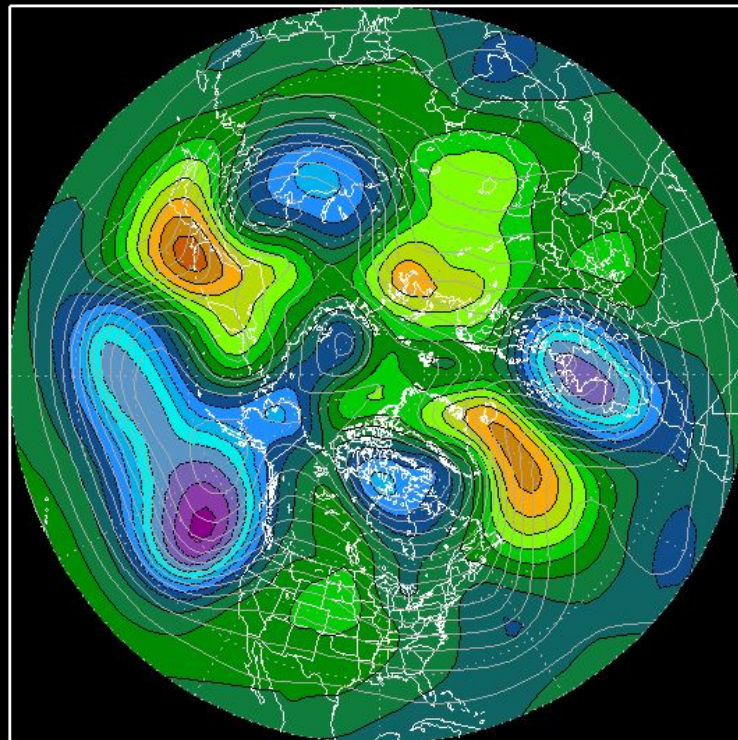
144H Forecast from: 00Z Mon FEB,29 2016
Valid time: 00Z Sun MAR,06 2016



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

NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

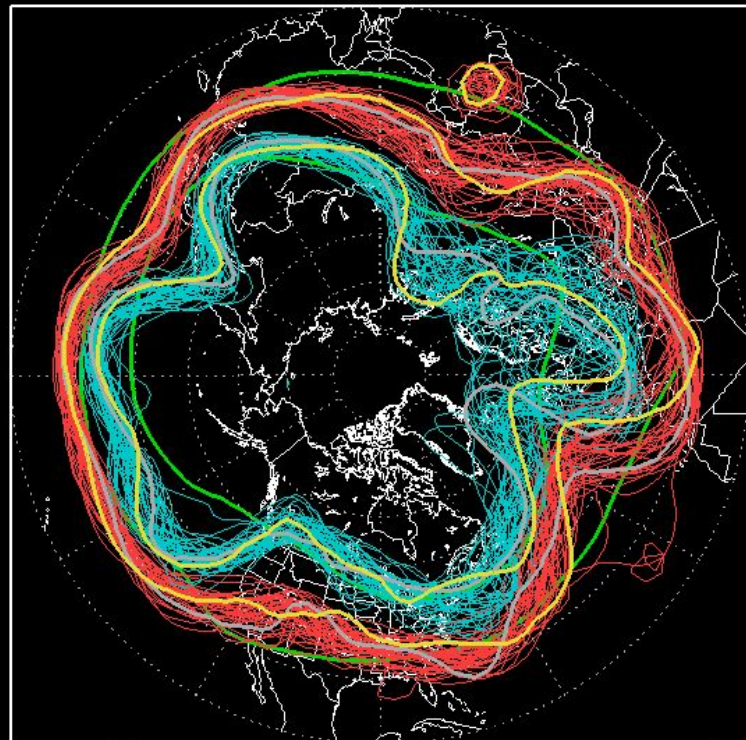
144H Forecast from: 00Z Mon FEB,29 2016
Valid time: 00Z Sun MAR,06 2016



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

NCEP ENSEMBLE 500mb Z

168H Forecast from: 00Z Sun FEB,28 2016
Valid time: 00Z Sun MAR,06 2016

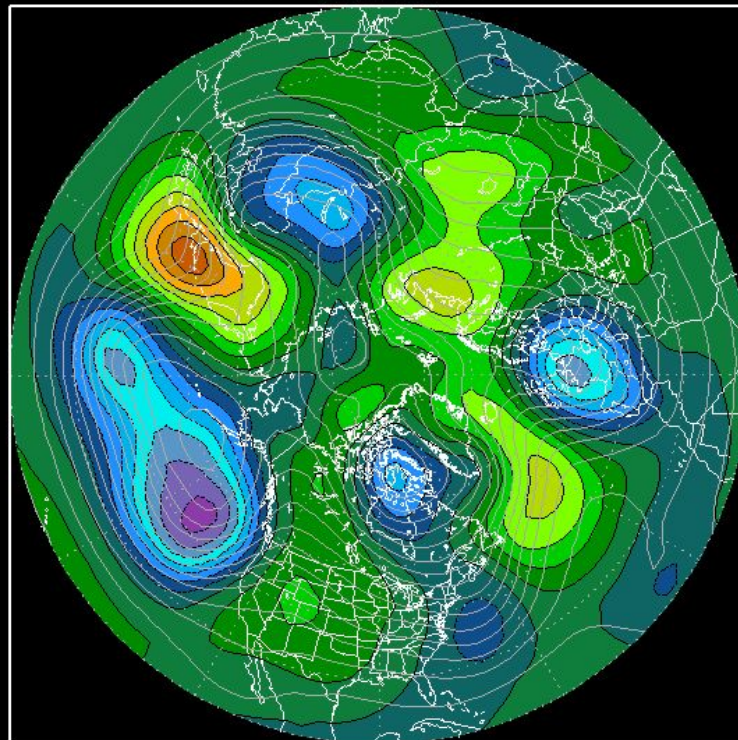


00z Runs:(21) 12z Runs:(21)

— 5460m — 5700m — Cntrl 00z — Cntrl 12z — CLIM

NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

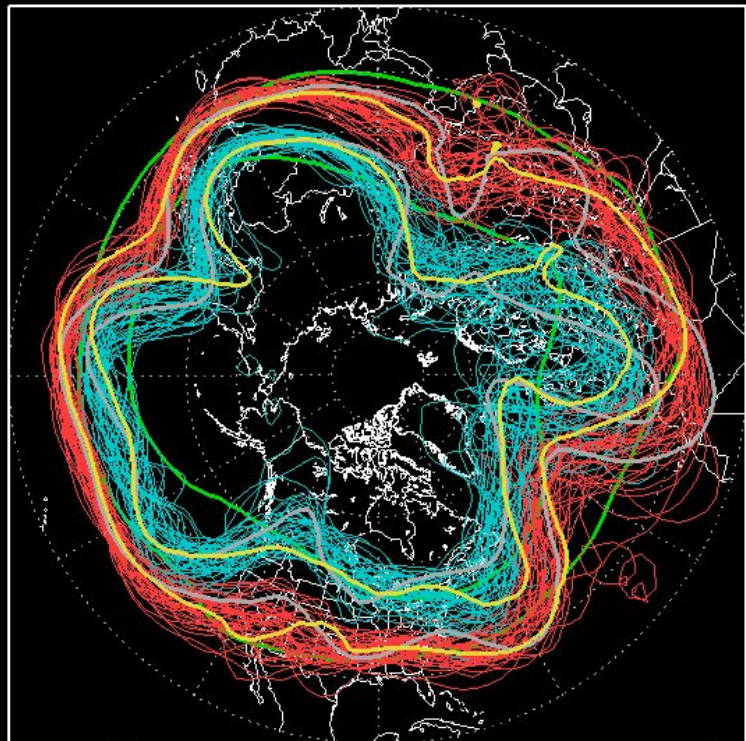
168H Forecast from: 00Z Sun FEB,28 2016
Valid time: 00Z Sun MAR,06 2016



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

NCEP ENSEMBLE 500mb Z

192H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Sun MAR,06 2016

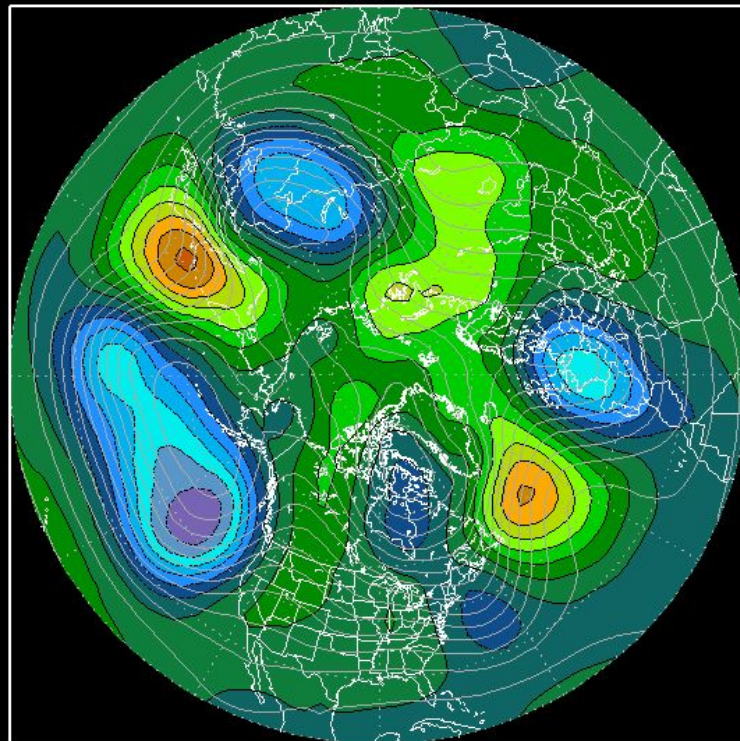


00z Runs:(21) 12z Runs:(21)

— 5460m — 5700m — Cntrl 00z — Cntrl 12z — CLIM

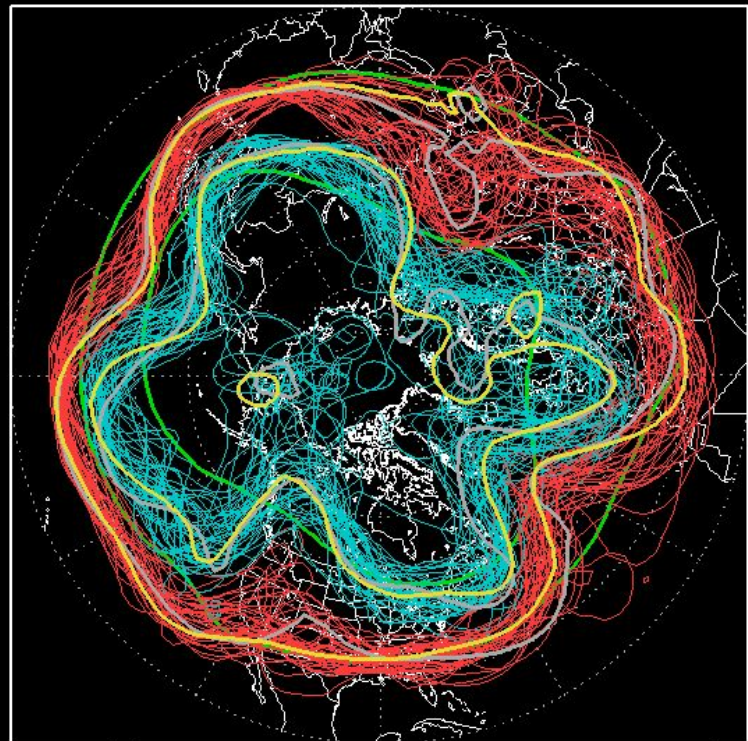
NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

192H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Sun MAR,06 2016



NCEP ENSEMBLE 500mb Z

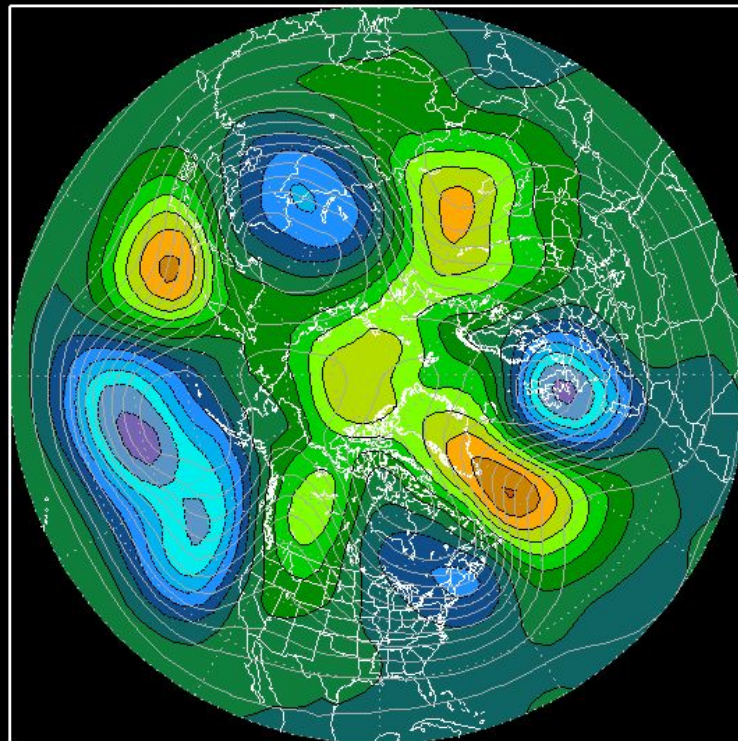
216H Forecast from: 00Z Fri FEB,26 2016
Valid time: 00Z Sun MAR,06 2016



00z Runs:(21) 12z Runs:(21)
— 5400m — 5700m — Cntrl 00z — Cntrl 12z — CLIM

NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

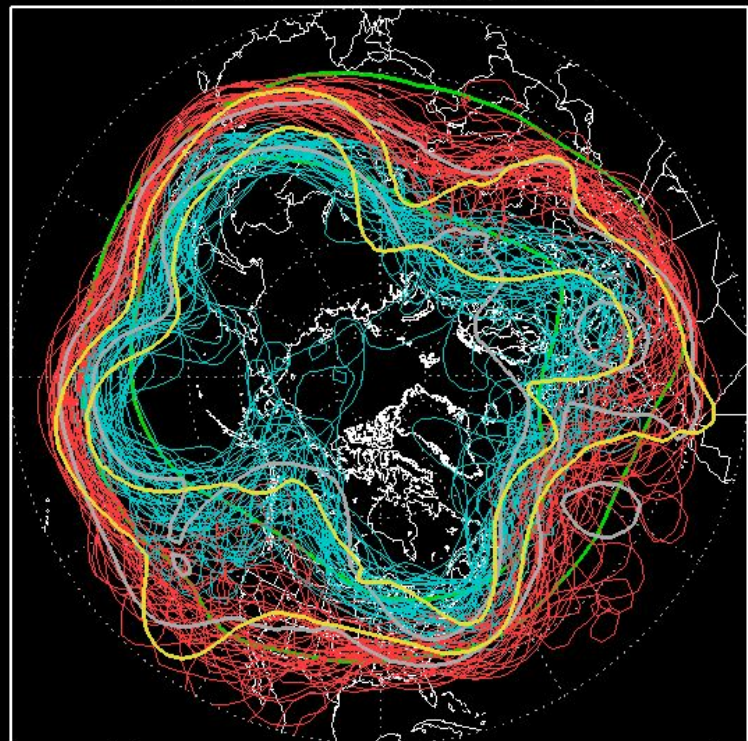
216H Forecast from: 00Z Fri FEB,26 2016
Valid time: 00Z Sun MAR,06 2016



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

NCEP ENSEMBLE 500mb Z

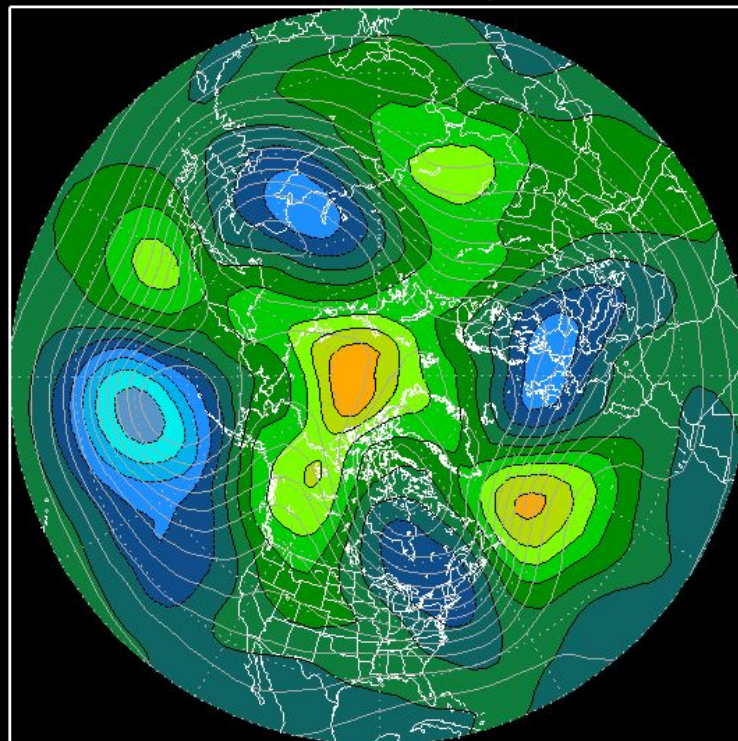
264H Forecast from: 00Z Wed FEB,24 2016
Valid time: 00Z Sun MAR,06 2016



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

NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

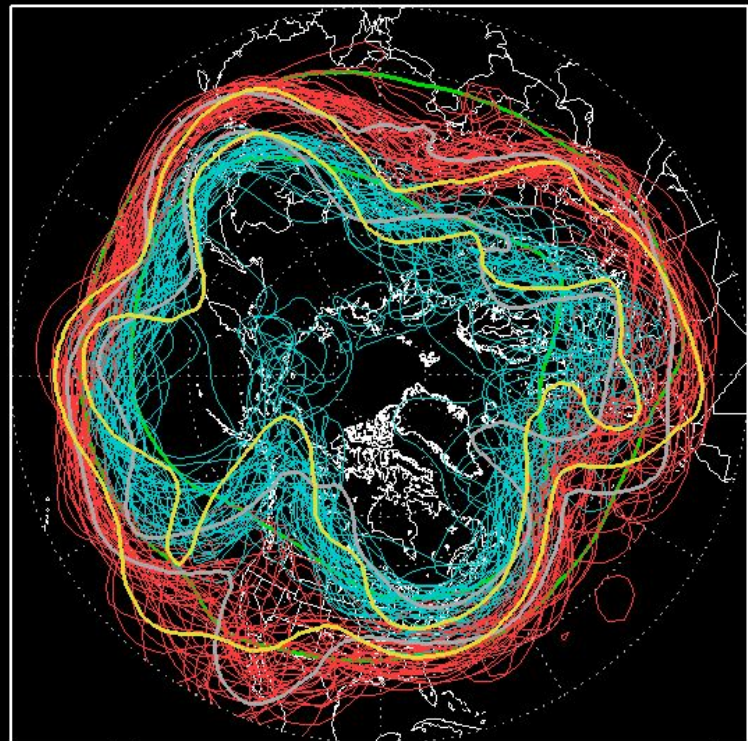
264H Forecast from: 00Z Wed FEB,24 2016
Valid time: 00Z Sun MAR,06 2016



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

NCEP ENSEMBLE 500mb Z

288H Forecast from: 00Z Tue FEB,23 2016
Valid time: 00Z Sun MAR,06 2016

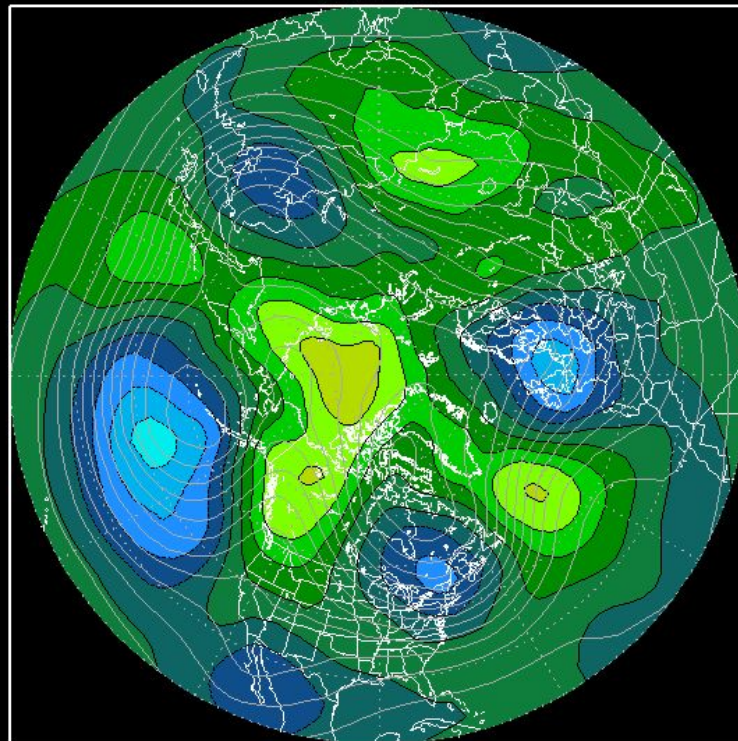


00z Runs:(21) 12z Runs:(21)

5460m 5700m Cntrl 00z Cntrl 12z CLIM

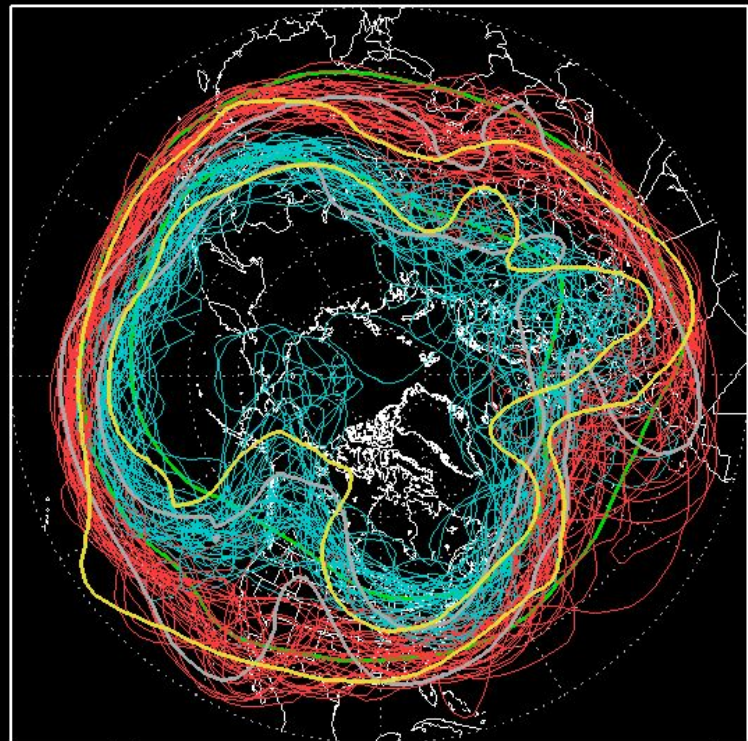
NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

288H Forecast from: 00Z Tue FEB,23 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

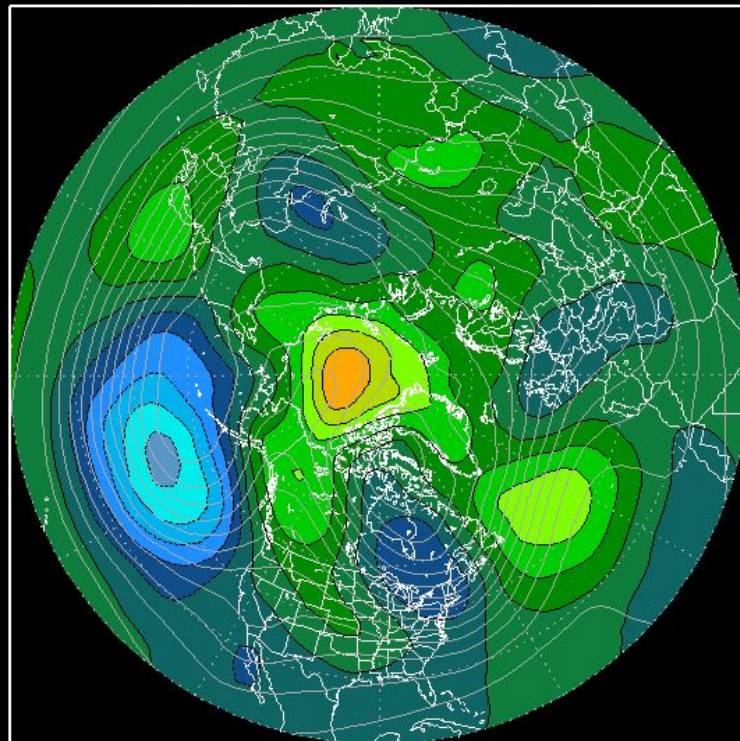


00z Runs:(21) 12z Runs:(21)

5460m 5700m Cntrl 00z Cntrl 12z CLIM

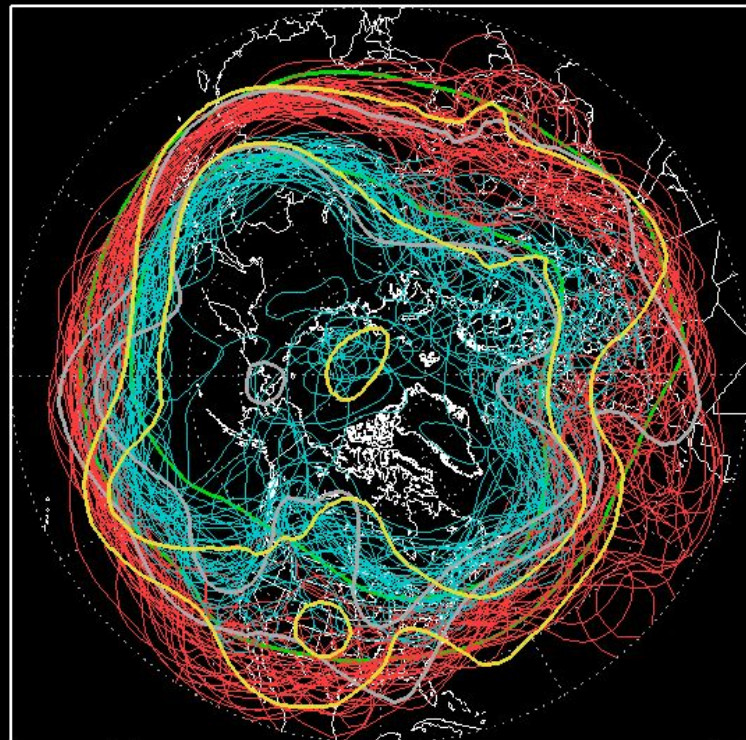
NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

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



NCEP ENSEMBLE 500mb Z

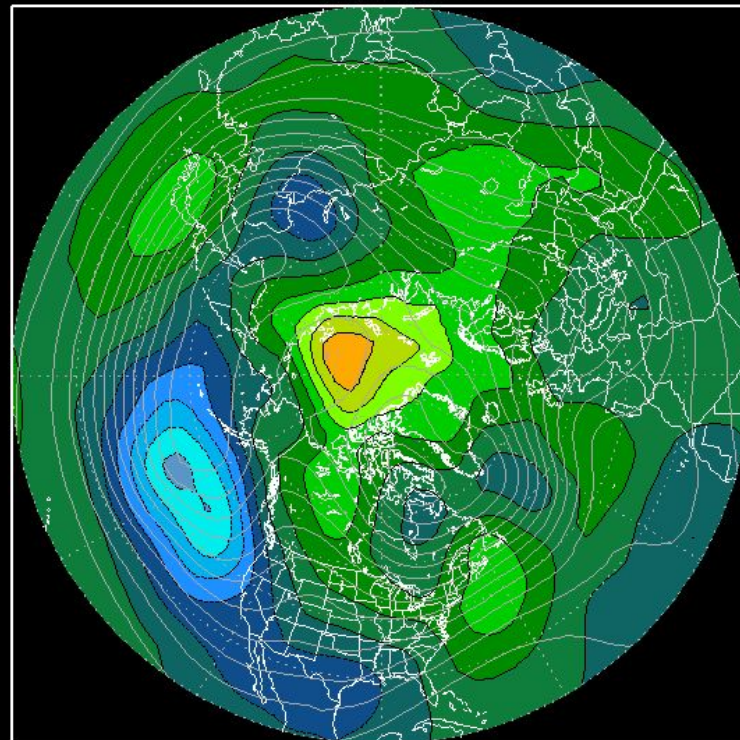
360H Forecast from: 00Z Sat FEB,20 2016
Valid time: 00Z Sun MAR,06 2016



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

NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

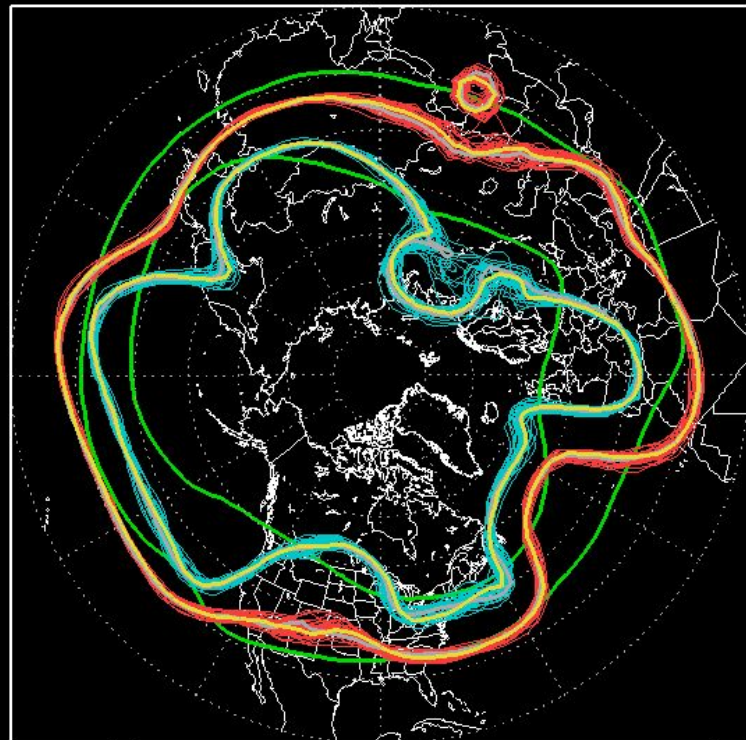
360H Forecast from: 00Z Sat FEB,20 2016
Valid time: 00Z Sun MAR,06 2016



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

NCEP ENSEMBLE 500mb Z

072H Forecast from: 00Z Thu MAR,03 2016
Valid time: 00Z Sun MAR,06 2016



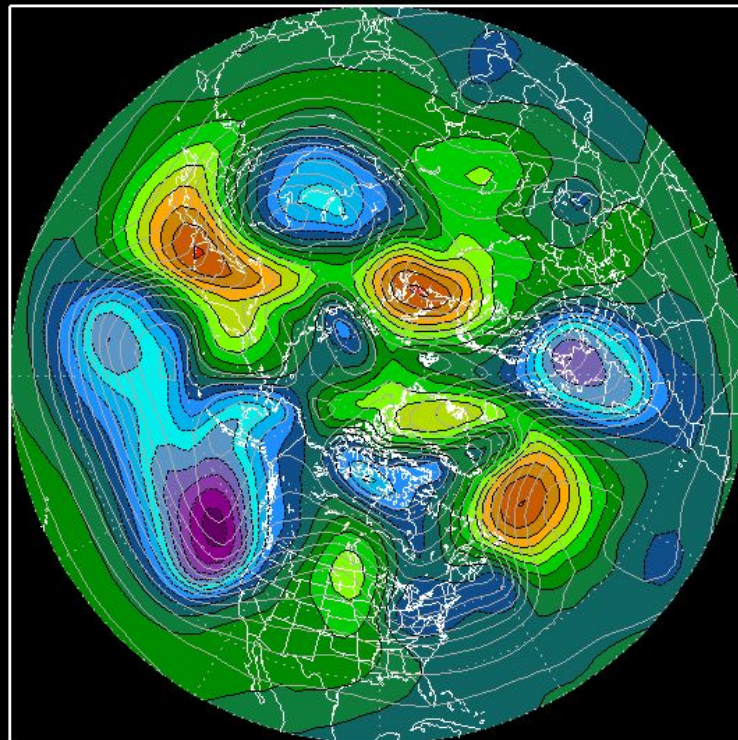
00z Runs:(21)

12z Runs:(21)

5460m 5700m Cntrl 00z Cntrl 12z CLIM

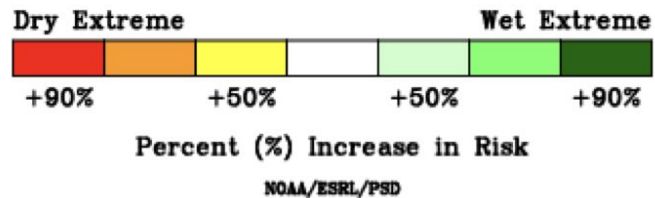
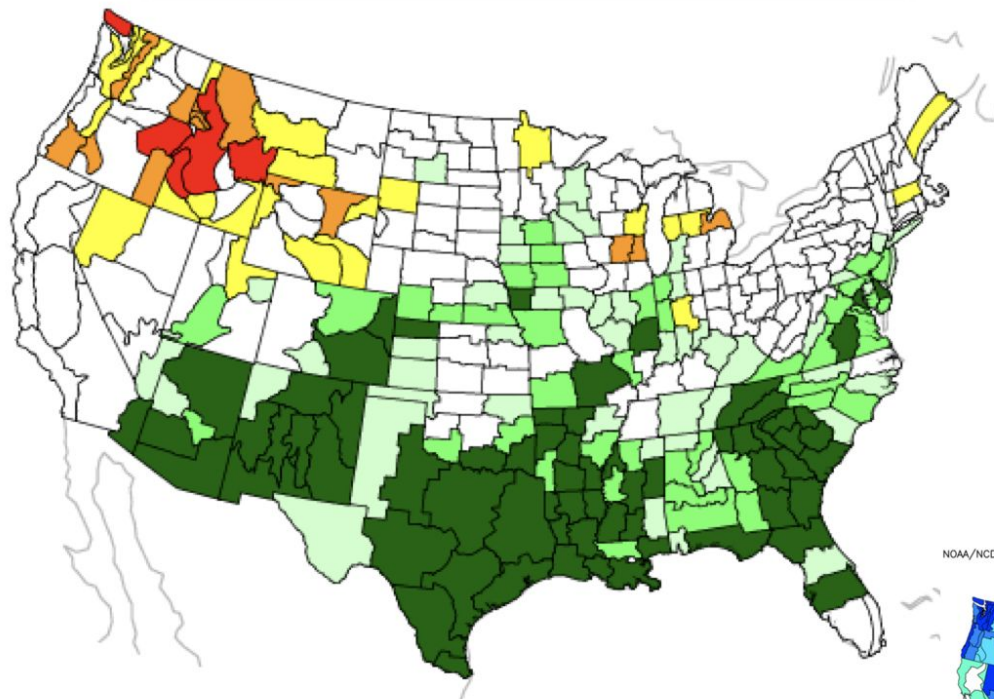
NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)

072H Forecast from: 00Z Thu MAR,03 2016
Valid time: 00Z Sun MAR,06 2016

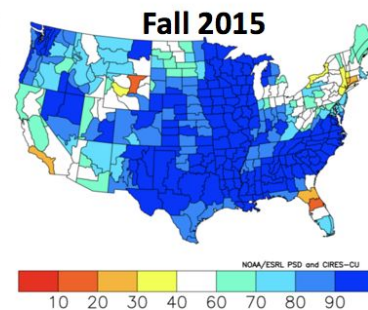


-360 -280 -200 -120 -40 40 120 200 280 360

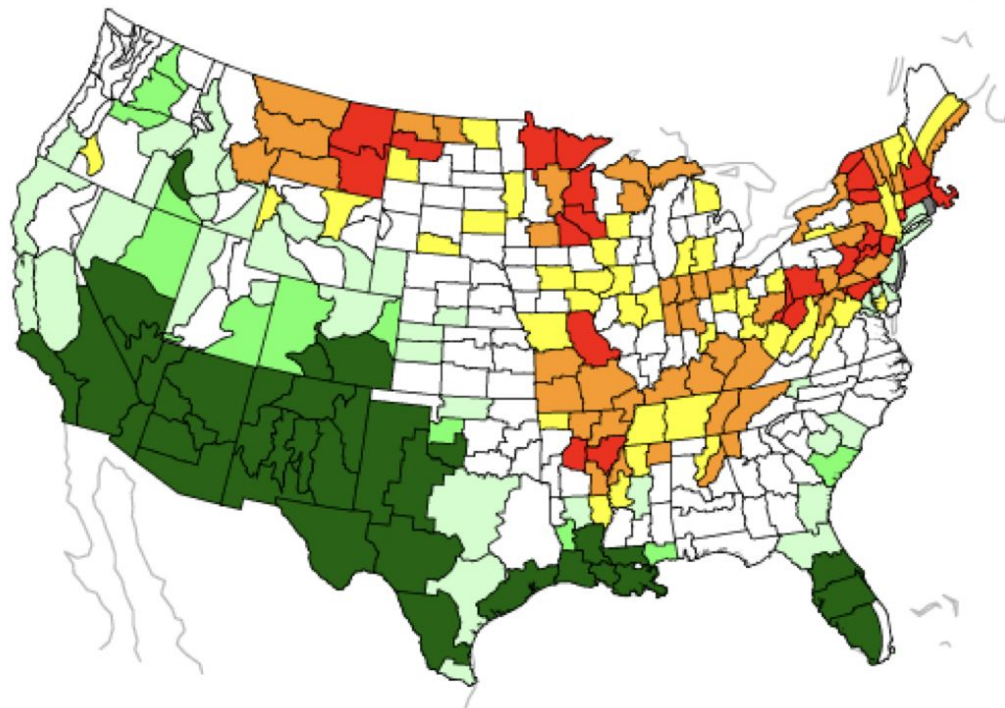
Fall Impacts of El Niño



NOAA/NCDC Climate Division Precipitation Percentile Relative to 1895–2013
Oct to Dec 2015



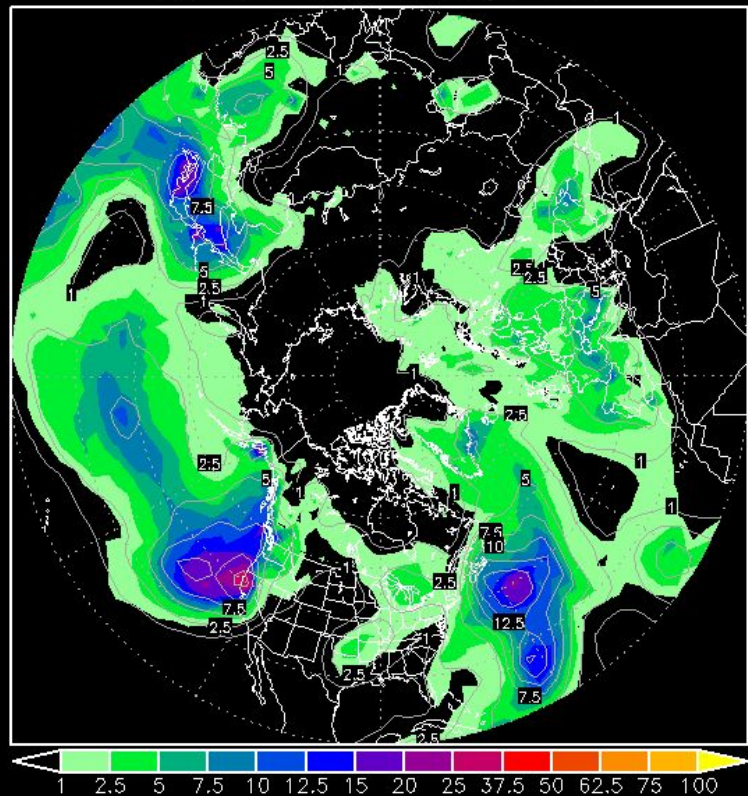
Spring Impacts of El Niño



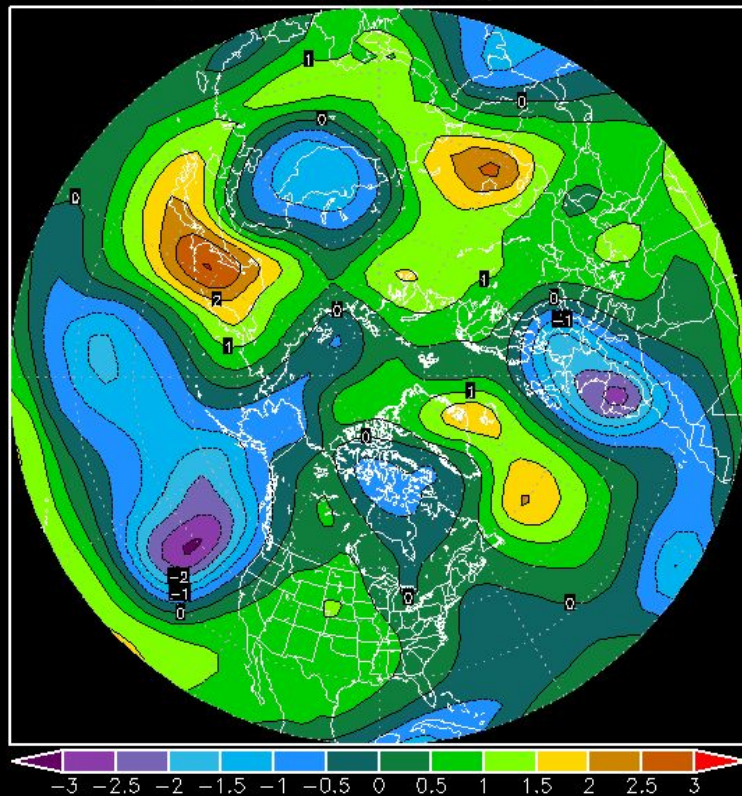
Percent (%) Increase in Risk

NOAA/ESRL/PSD

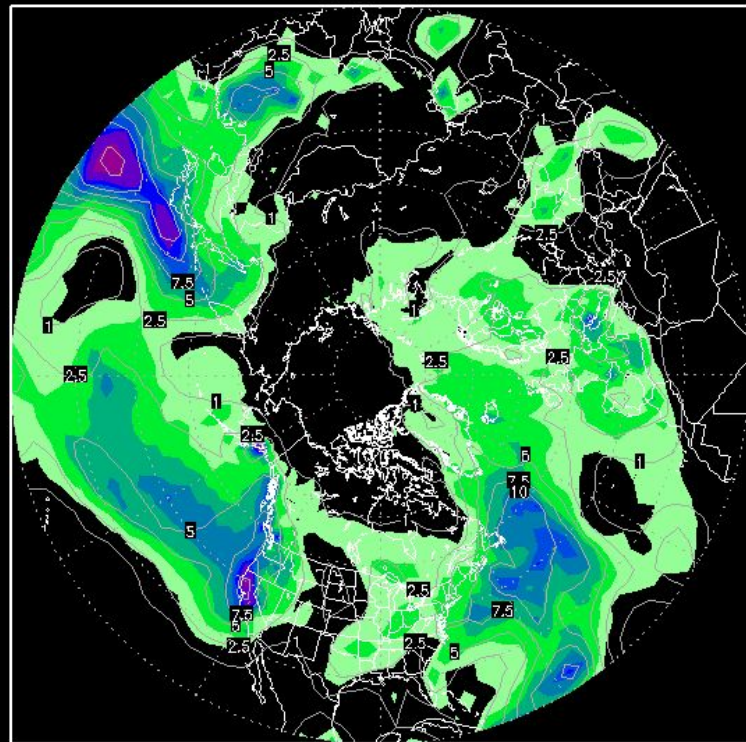
NCEP ENS MEAN PREC(color) and Std Dev(contour)
 144H Forecast from: 00Z Mon FEB,29 2016
 Valid time: 00Z Sun MAR,06 2016



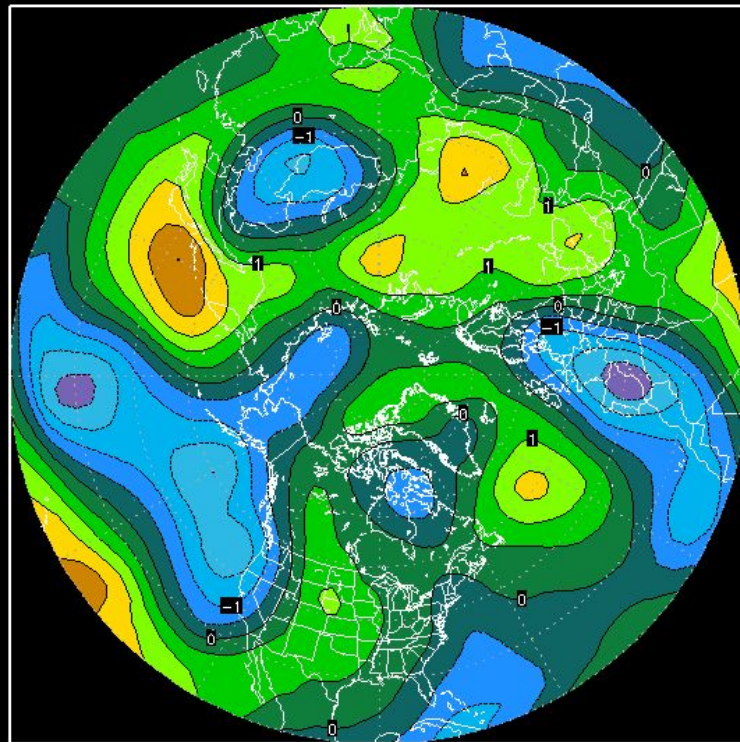
NCEP ENS. MEAN NORM. ANOM - 500mb Z(m)
 144H Forecast from: 00Z Mon FEB,29 2016
 Valid time: 00Z Sun MAR,06 2016



NCEP ENS MEAN PREC(color) and Std Dev(contour)
 168H Forecast from: 00Z Mon FEB,29 2016
 Valid time: 00Z Mon MAR,07 2016



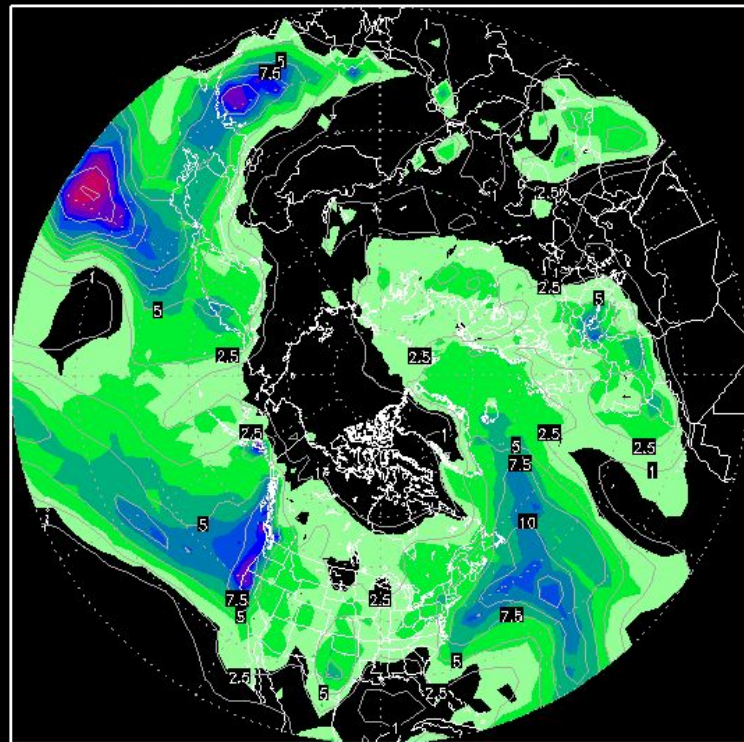
NCEP ENS. MEAN NORM. ANOM - 500mb Z(m)
 168H Forecast from: 00Z Mon FEB,29 2016
 Valid time: 00Z Mon MAR,07 2016



NCEP ENS MEAN PREC(color) and Std Dev(contour)

192H Forecast from: 00Z Mon FEB,29 2016

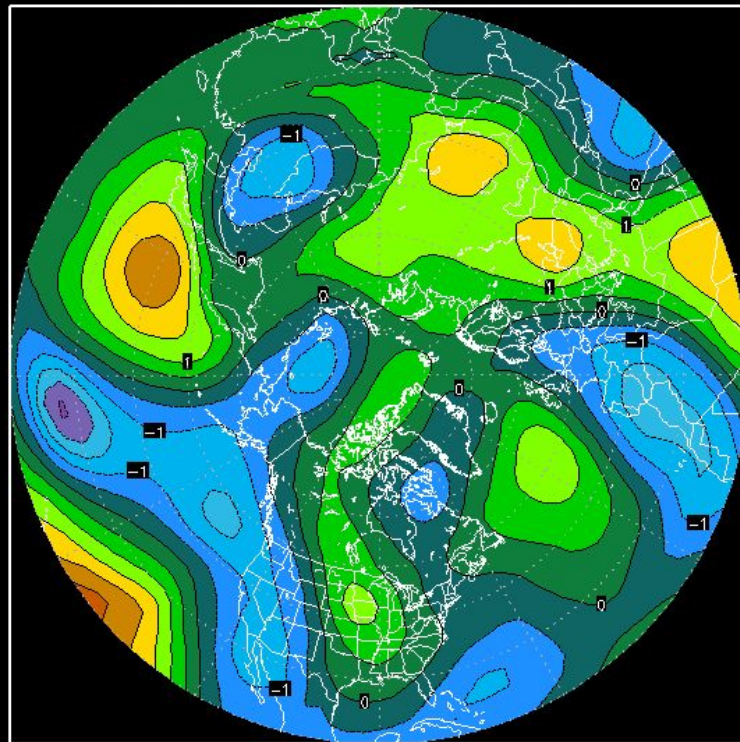
Valid time: 00Z Tue MAR,08 2016



NCEP ENS. MEAN NORM. ANOM - 500mb Z(m)

192H Forecast from: 00Z Mon FEB,29 2016

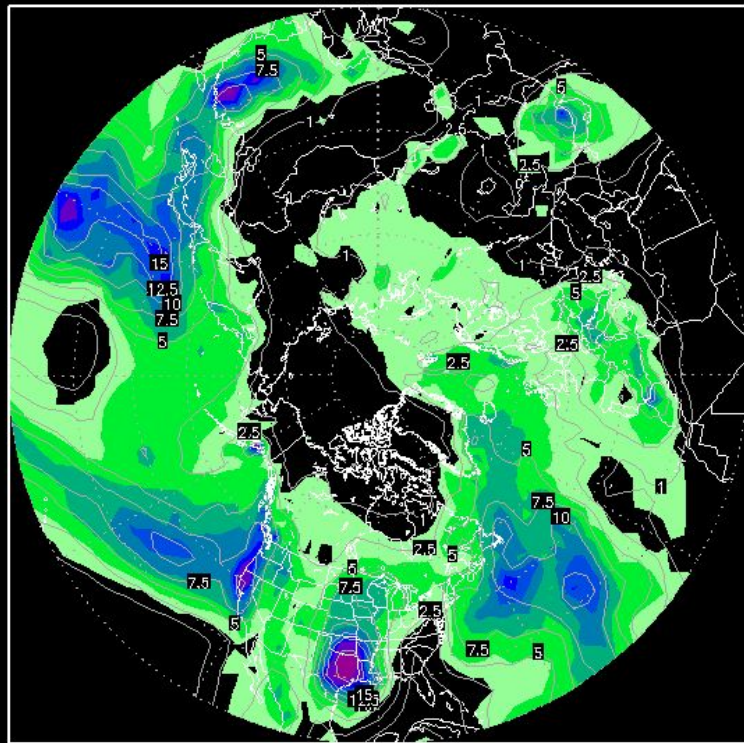
Valid time: 00Z Tue MAR,08 2016



NCEP ENS MEAN PREC(color) and Std Dev(contour)

216H Forecast from: 00Z Mon FEB,29 2016

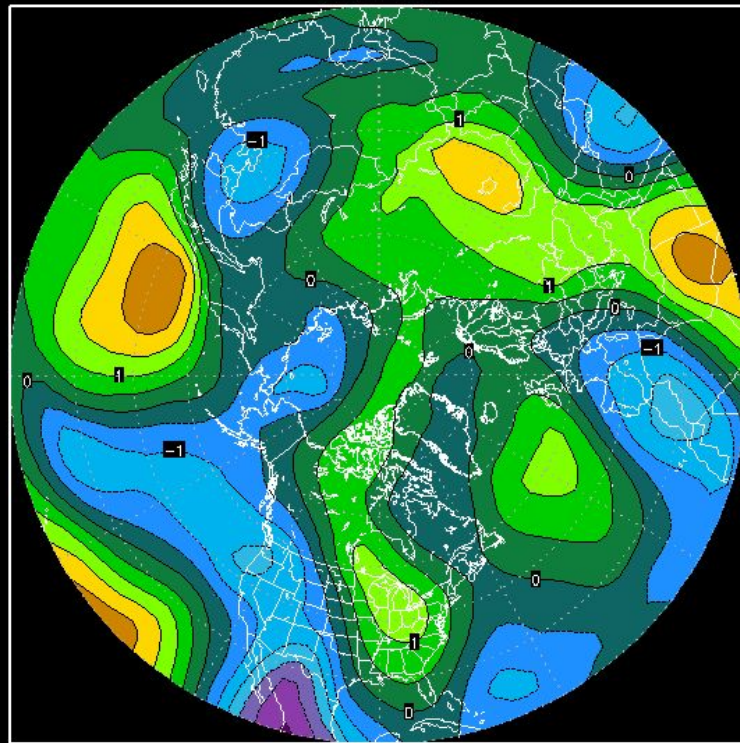
Valid time: 00Z Wed MAR,09 2016



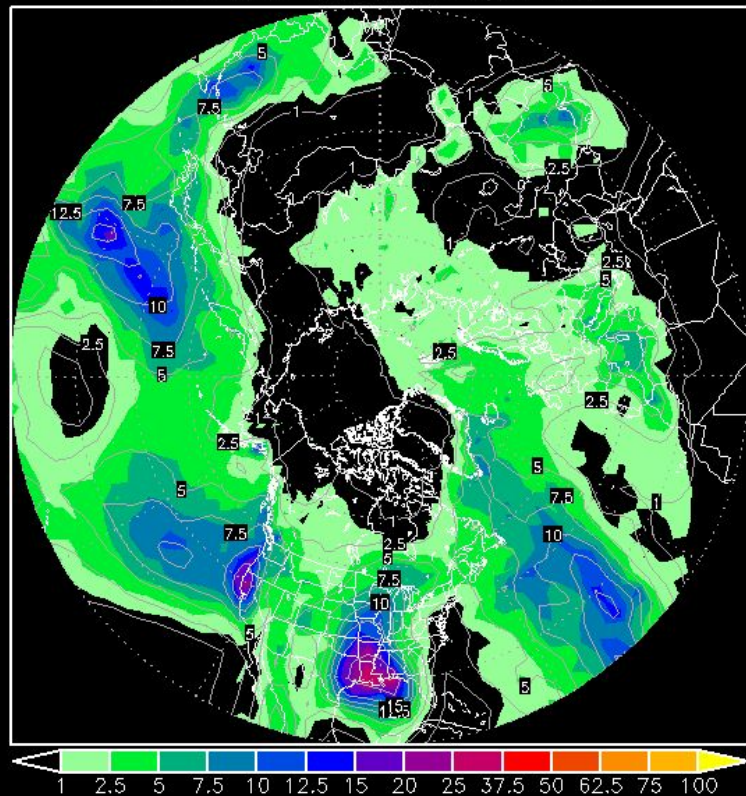
NCEP ENS. MEAN NORM. ANOM - 500mb Z(m)

216H Forecast from: 00Z Mon FEB,29 2016

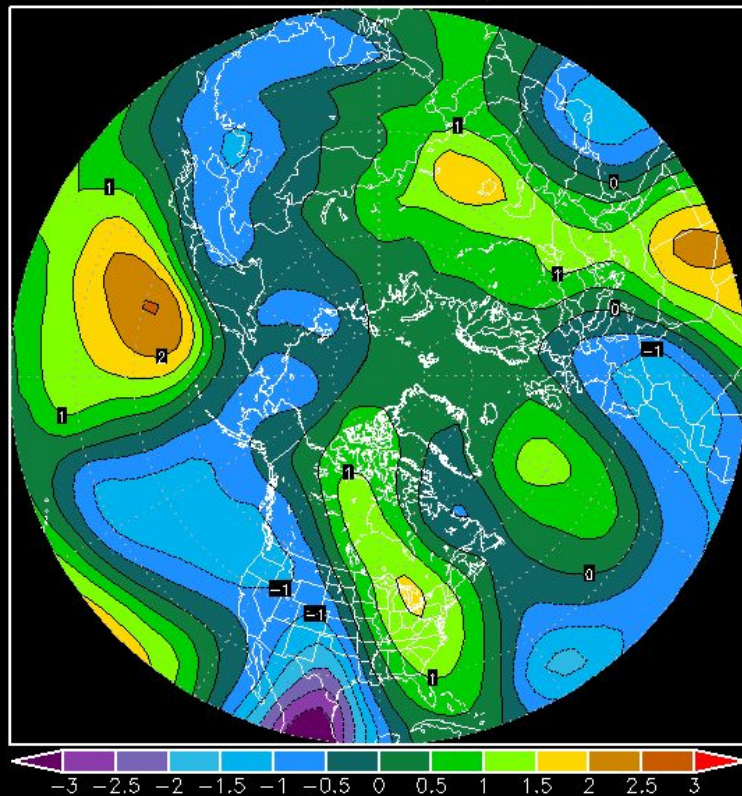
Valid time: 00Z Wed MAR,09 2016



NCEP ENS MEAN PREC(color) and Std Dev(contour)
 240H Forecast from: 00Z Mon FEB,29 2016
 Valid time: 00Z Thu MAR,10 2016



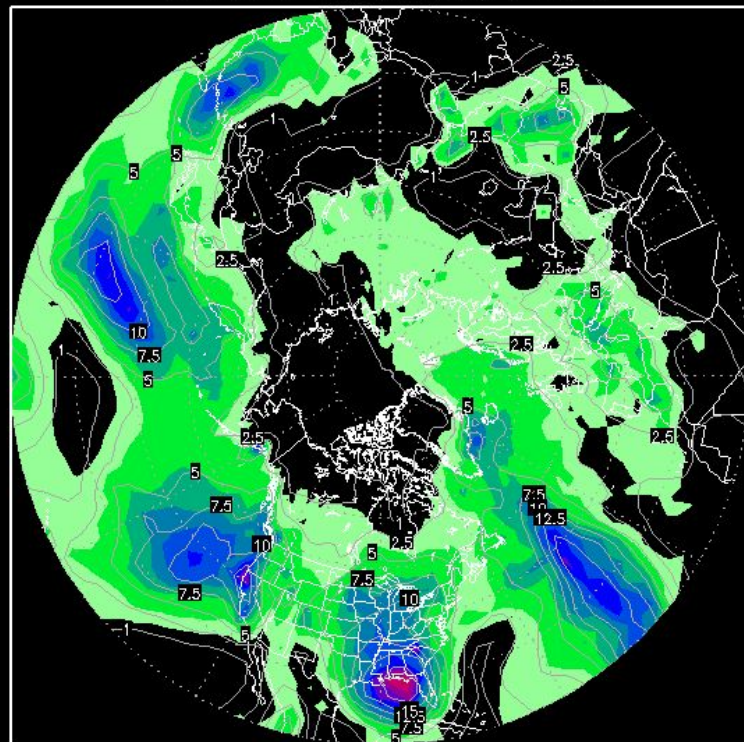
NCEP ENS. MEAN NORM. ANOM - 500mb Z(m)
 240H Forecast from: 00Z Mon FEB,29 2016
 Valid time: 00Z Thu MAR,10 2016



NCEP ENS MEAN PREC(color) and Std Dev(contour)

264H Forecast from: 00Z Mon FEB,29 2016

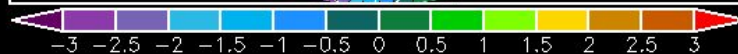
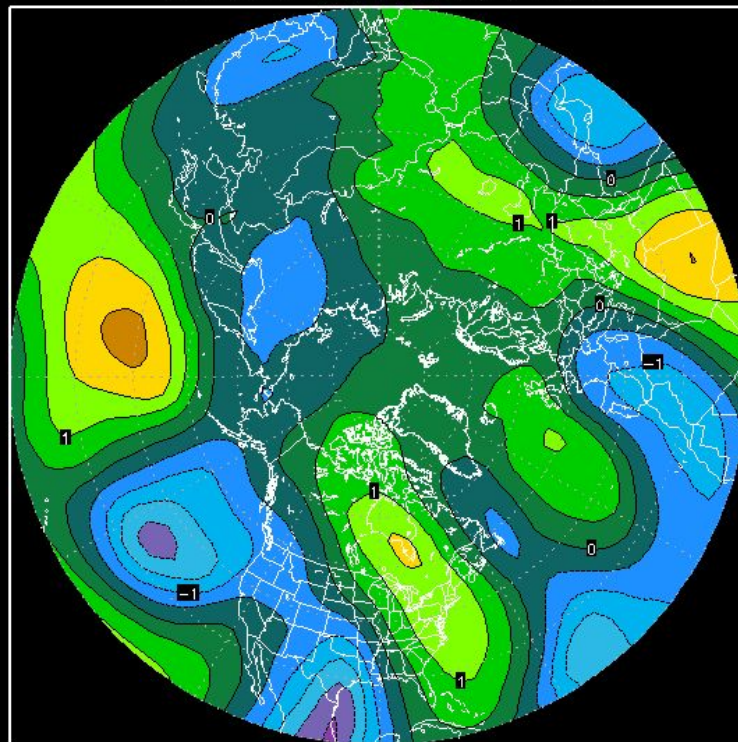
Valid time: 00Z Fri MAR,11 2016



NCEP ENS. MEAN NORM. ANOM - 500mb Z(m)

264H Forecast from: 00Z Mon FEB,29 2016

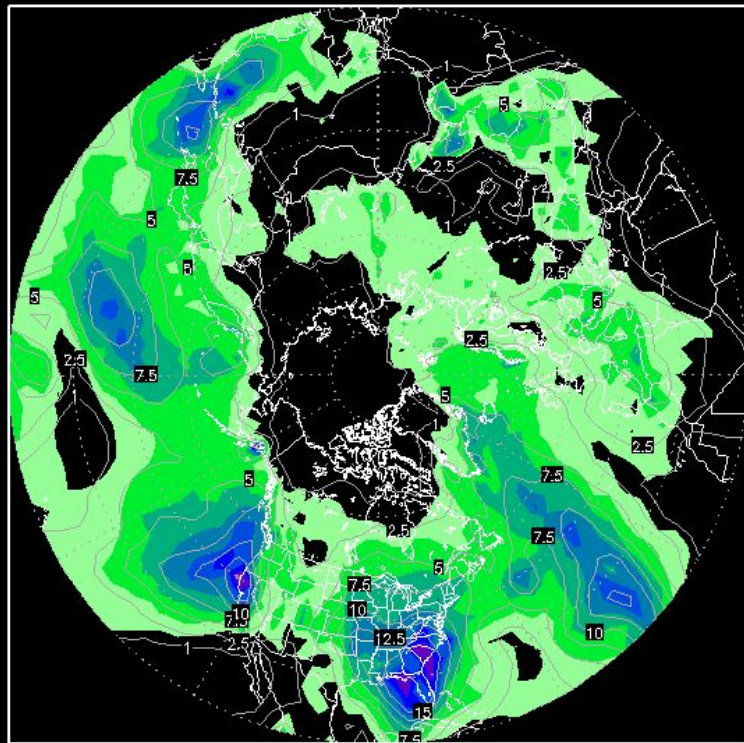
Valid time: 00Z Fri MAR,11 2016



NCEP ENS MEAN PREC(color) and Std Dev(contour)

288H Forecast from: 00Z Mon FEB,29 2016

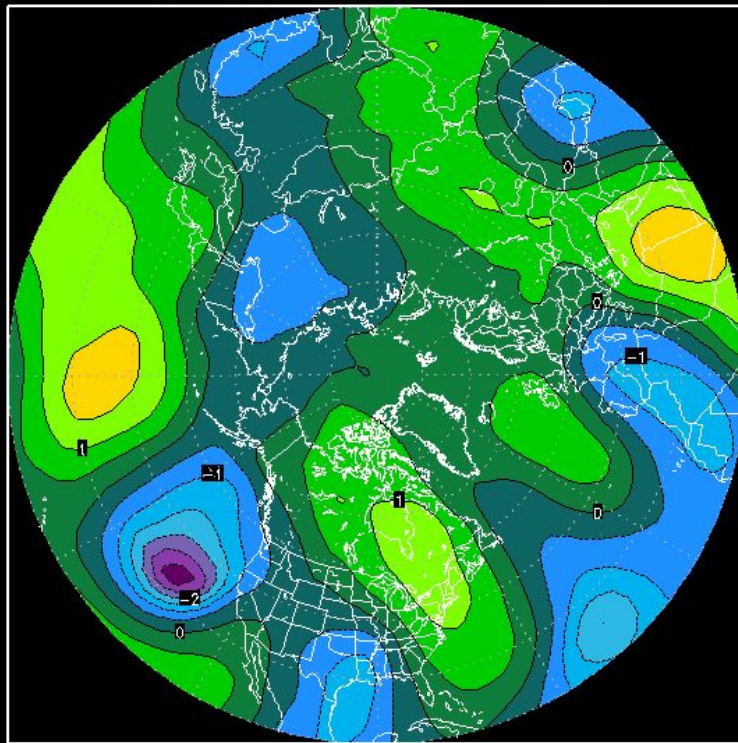
Valid time: 00Z Sat MAR,12 2016



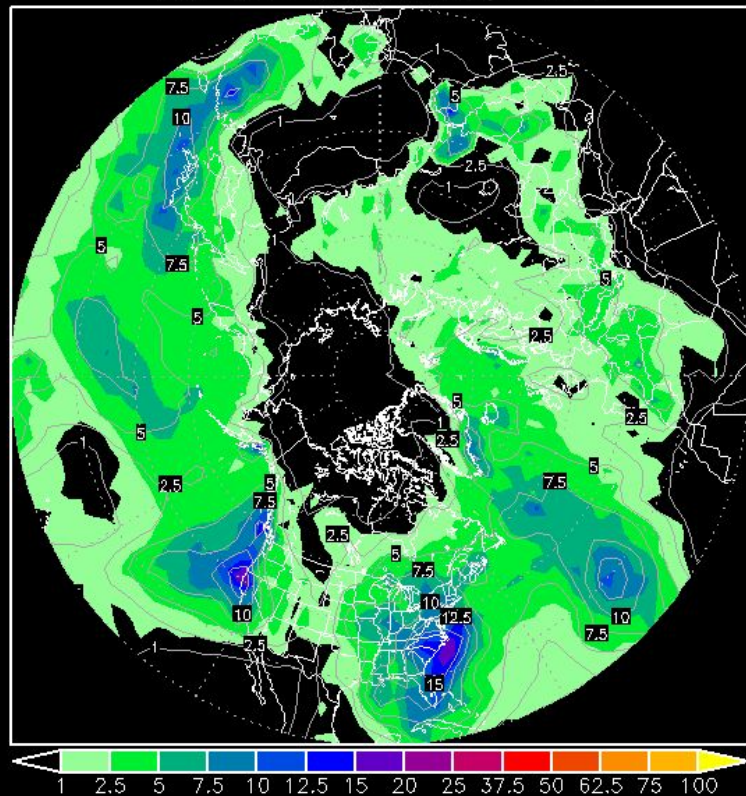
NCEP ENS. MEAN NORM. ANOM - 500mb Z(m)

288H Forecast from: 00Z Mon FEB,29 2016

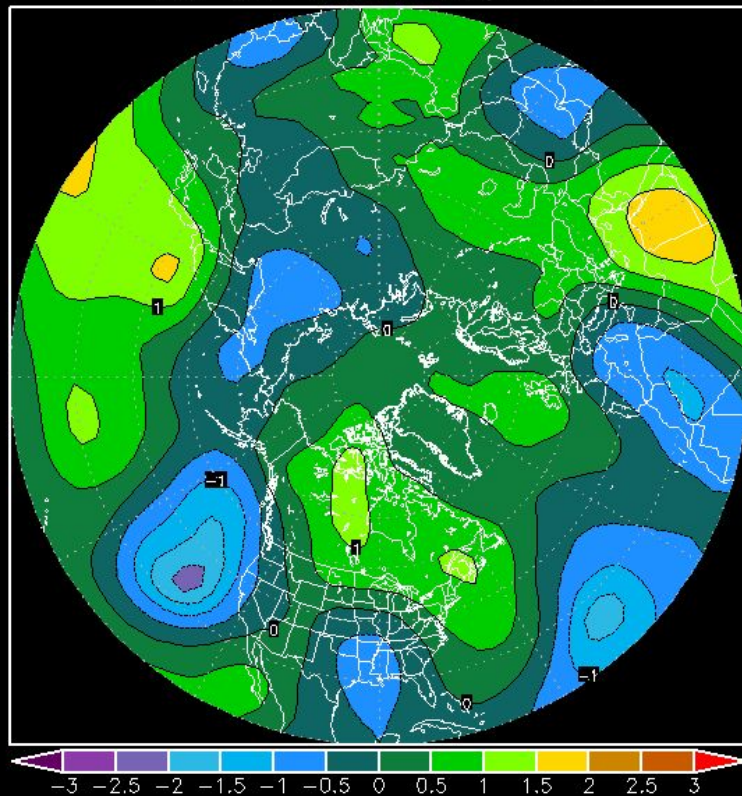
Valid time: 00Z Sat MAR,12 2016



NCEP ENS MEAN PREC(color) and Std Dev(contour)
 312H Forecast from: 00Z Mon FEB,29 2016
 Valid time: 00Z Sun MAR,13 2016



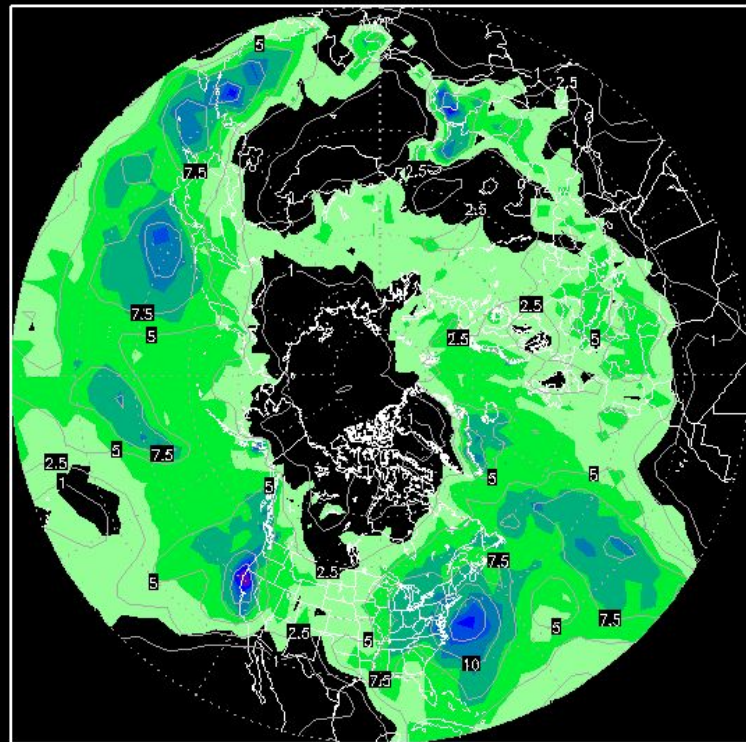
NCEP ENS. MEAN NORM. ANOM - 500mb Z(m)
 312H Forecast from: 00Z Mon FEB,29 2016
 Valid time: 00Z Sun MAR,13 2016



NCEP ENS MEAN PREC(color) and Std Dev(contour)

336H Forecast from: 00Z Mon FEB,29 2016

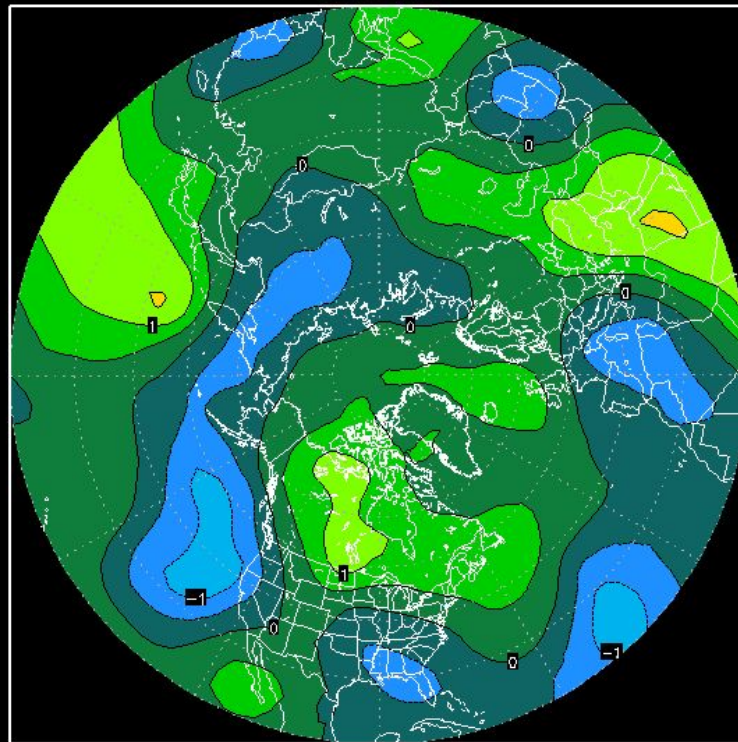
Valid time: 00Z Mon MAR,14 2016



NCEP ENS. MEAN NORM. ANOM - 500mb Z(m)

336H Forecast from: 00Z Mon FEB,29 2016

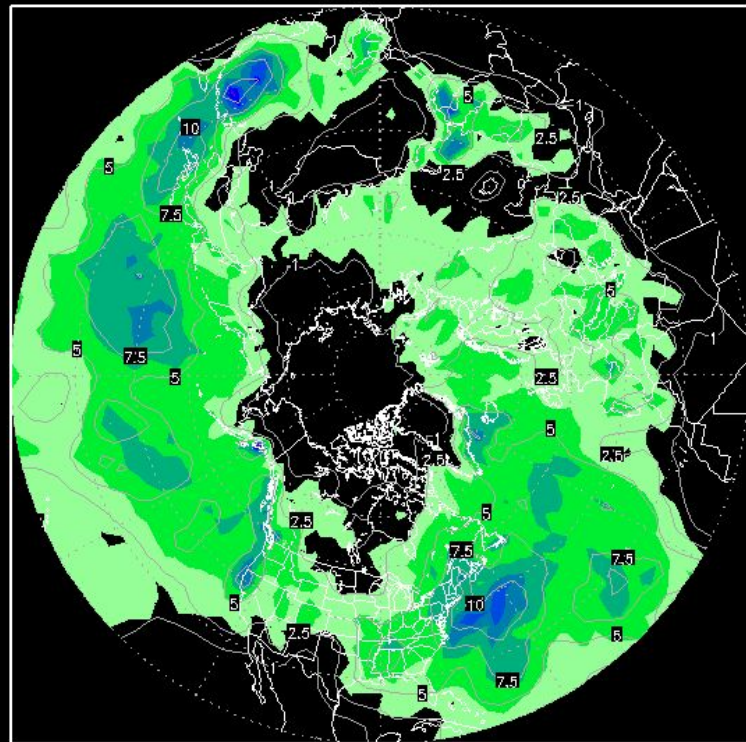
Valid time: 00Z Mon MAR,14 2016



NCEP ENS MEAN PREC(color) and Std Dev(contour)

360H Forecast from: 00Z Mon FEB,29 2016

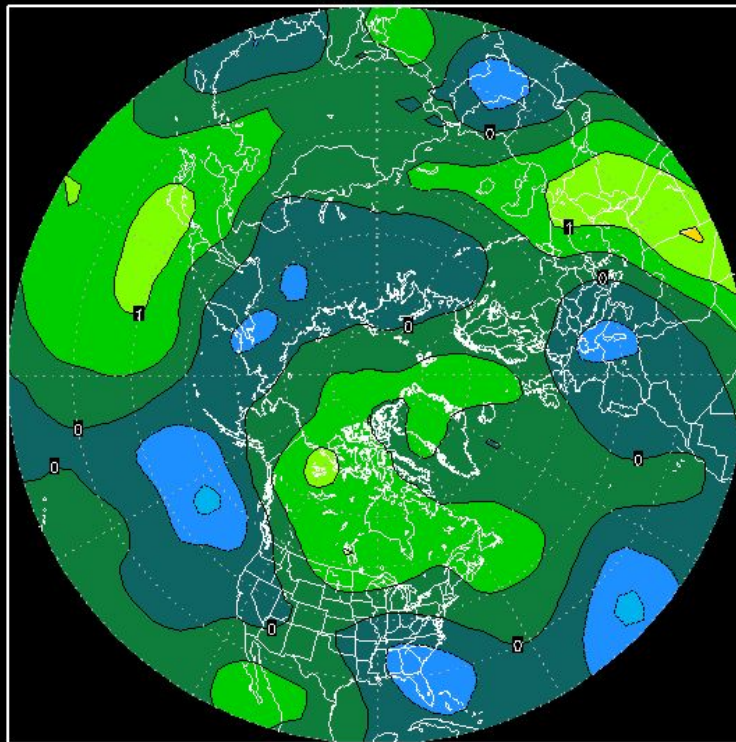
Valid time: 00Z Tue MAR,15 2016



NCEP ENS. MEAN NORM. ANOM - 500mb Z(m)

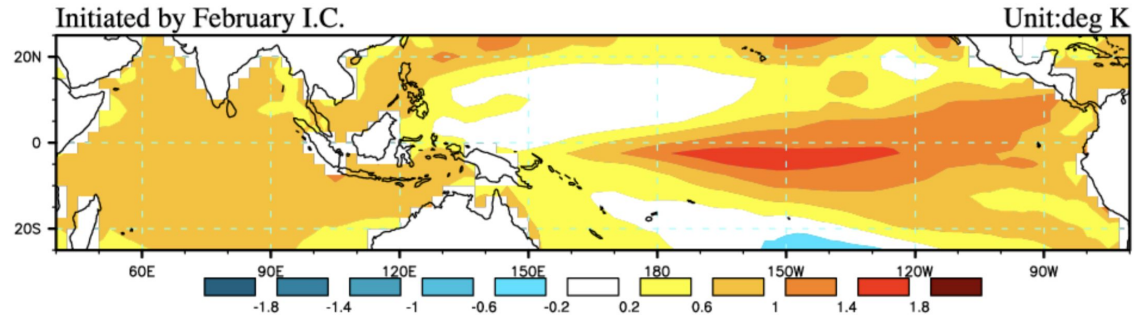
360H Forecast from: 00Z Mon FEB,29 2016

Valid time: 00Z Tue MAR,15 2016



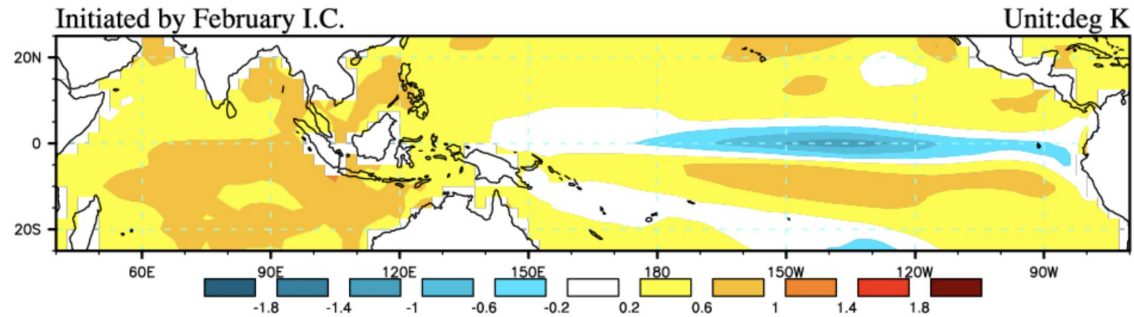
Spring 2016 Outlook: APEC NMME

SST Anomaly for MAM 2016



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SST Anomaly for JJA 2016



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Precipitation for March-May 2016

