

# Climate Conditions and Outlook for Summer 2017

Subcommittee on Disaster Reduction

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1 June 2017

# Summary

ENSO Alert System Status: Not Active

ENSO-neutral conditions are present.\*

Equatorial sea surface temperatures (SSTs) are near-to-above average across most of the Pacific Ocean.

ENSO-neutral and El Niño are nearly equally favored during the Northern Hemisphere summer and fall 2017.\*

## **ENSO Diagnostics Discussion**

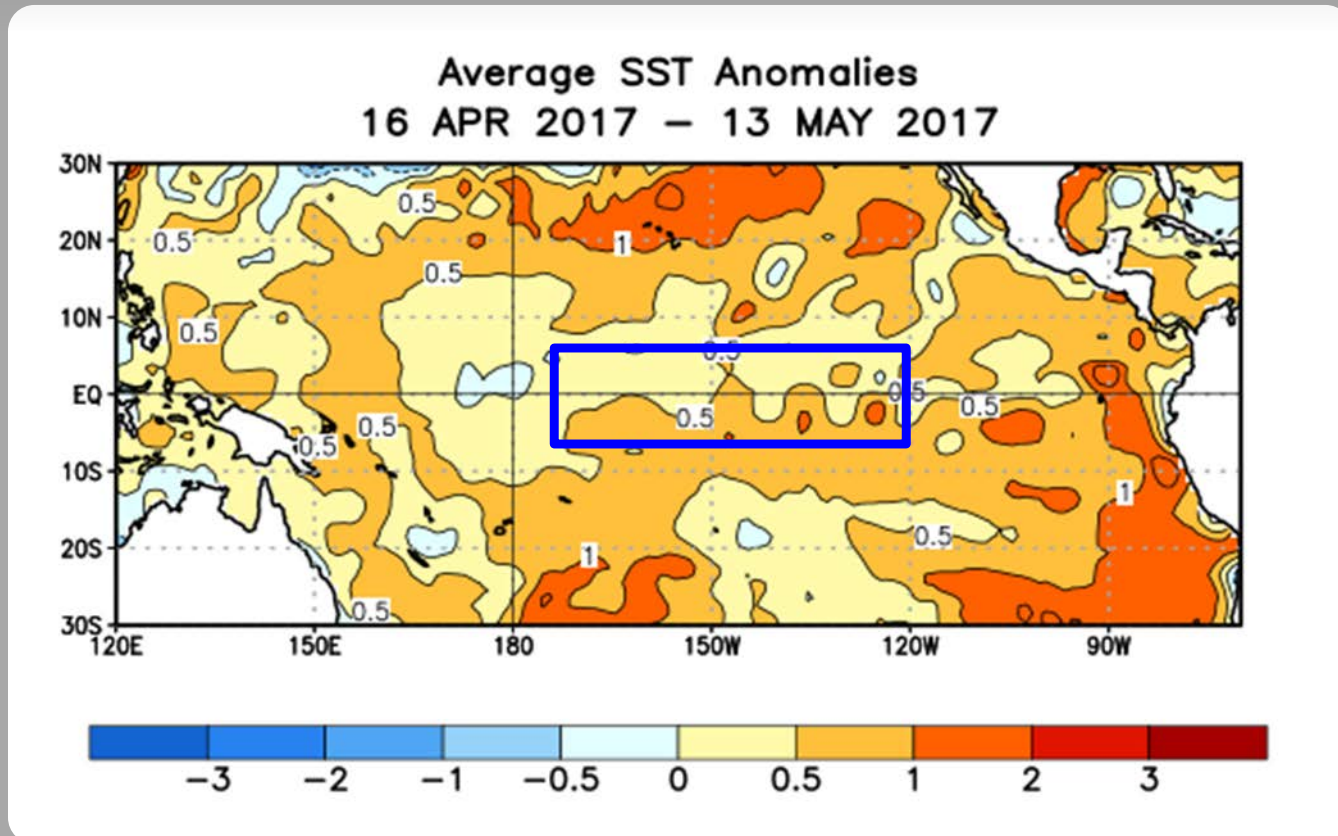
[http://www.cpc.ncep.noaa.gov/products/analysis\\_monitoring/enso\\_advisory/enso\\_disc.html](http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/enso_advisory/enso_disc.html)

**ENSO Blog** <http://www.climate.gov/news-features/department/enso-blog>

\* Note: These statements are updated once a month (2<sup>nd</sup> Thursday of each month) in association with the ENSO Diagnostics Discussion, which can be found by clicking [here](#).

# SST Departures (°C) in the Tropical Pacific During the Last Four Weeks

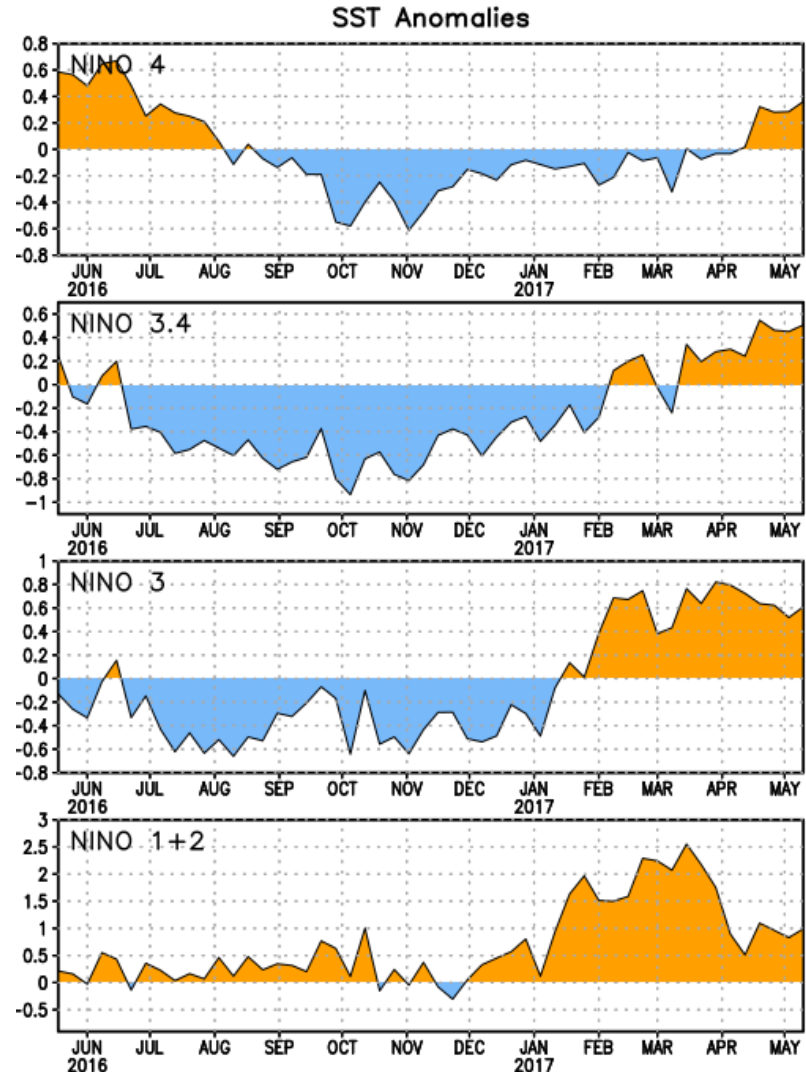
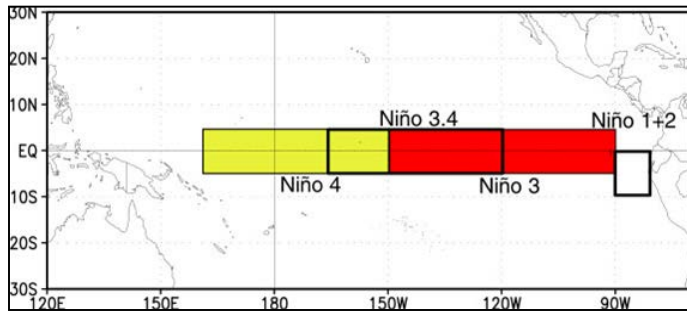
During the last four weeks, equatorial SSTs were near-average near the International Date Line, and above-average across the eastern Pacific.



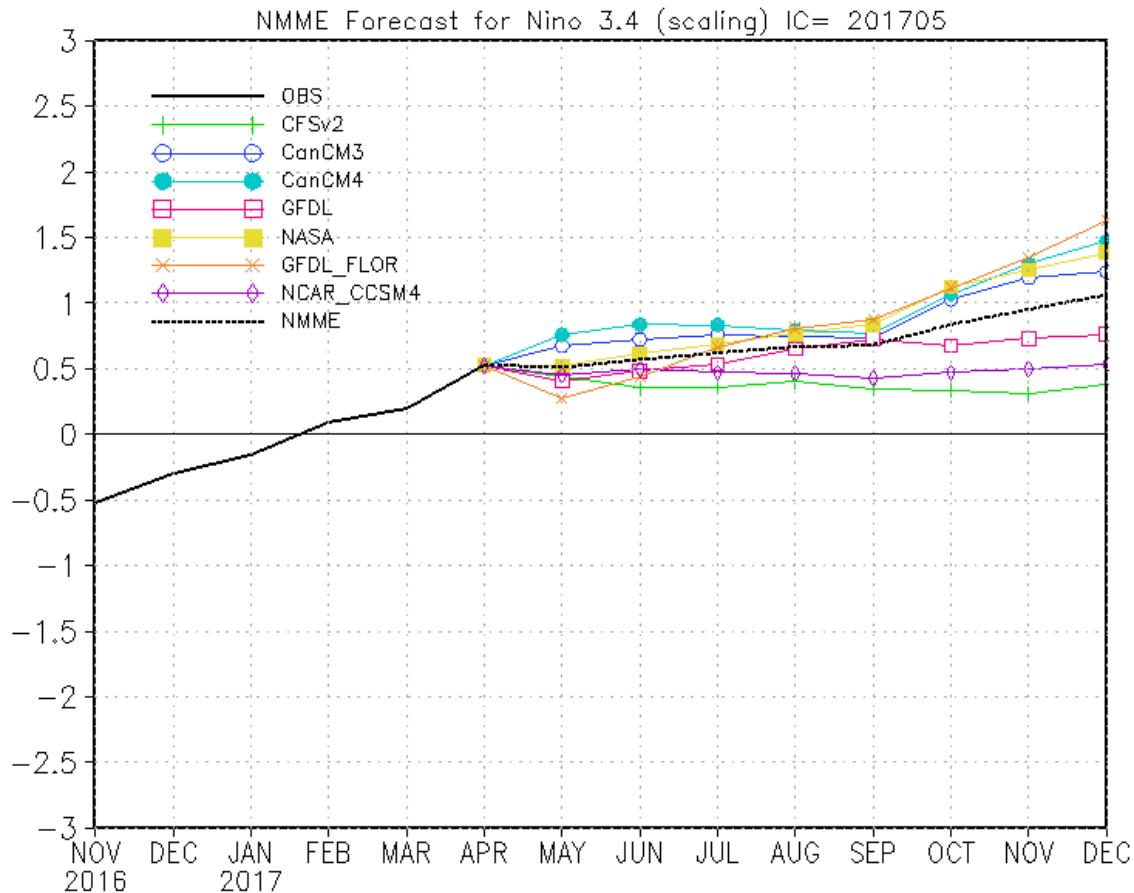
# Niño Region SST Departures (°C) Recent Evolution

The latest weekly SST departures are:

|          |       |
|----------|-------|
| Niño 4   | 0.4°C |
| Niño 3.4 | 0.5°C |
| Niño 3   | 0.6°C |
| Niño 1+2 | 1.0°C |



# North American Multi-Model Ensemble (NMME) Niño 3.4 SST Model Outlook

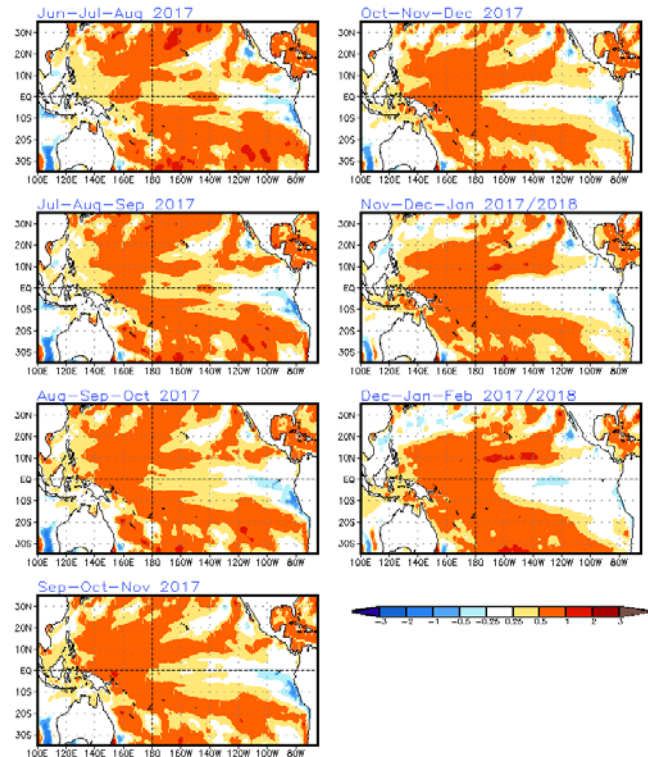
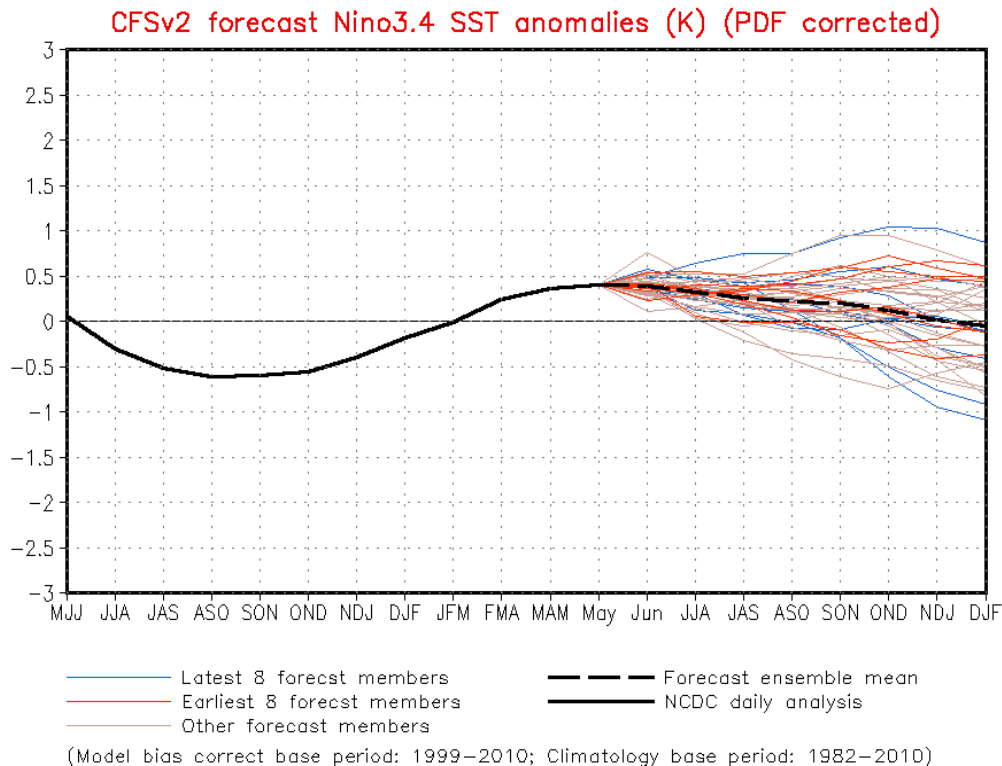


CPC/IRI forecasters are split between ENSO-neutral and El Niño.

# SST Outlook: NCEP CFS.v2 Forecast (PDF corrected)

Issued: 15 May 2017

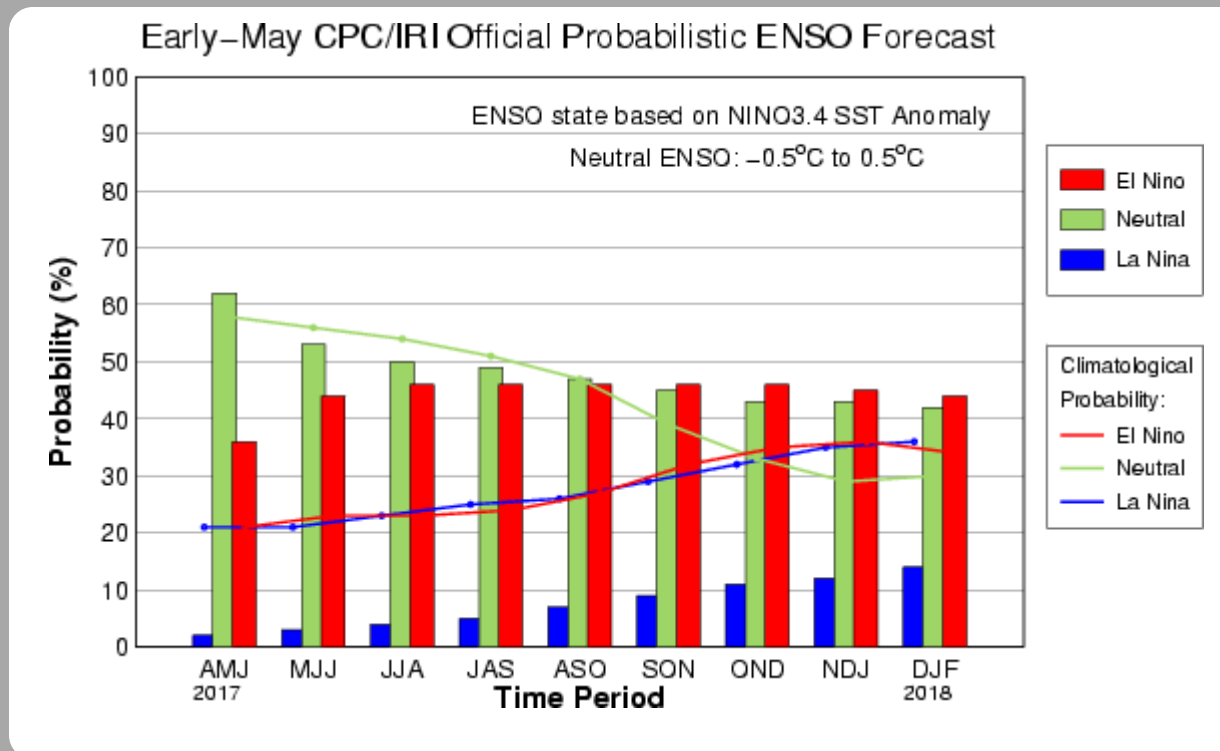
The CFS.v2 ensemble mean (black dashed line) favors ENSO-neutral to continue through 2017.



# CPC/IRI Probabilistic ENSO Outlook

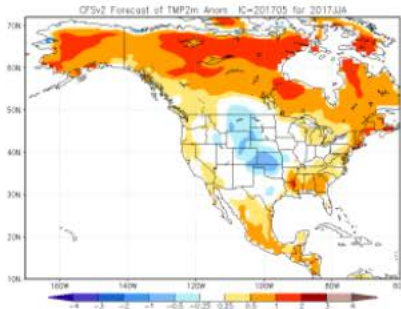
Updated: 12 May 2017

ENSO-neutral is favored through mid-2017, roughly an equal split between ENSO-neutral and El Niño during the remainder of 2017.

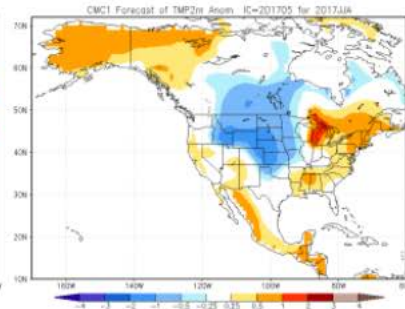


# Individual NMME Model Forecasts JJA 2017

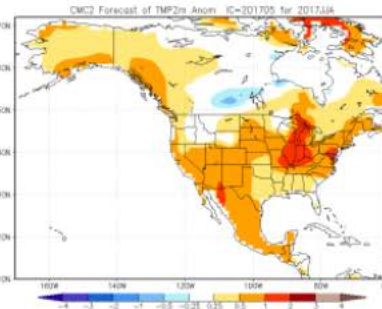
**NCEP CFSv2**



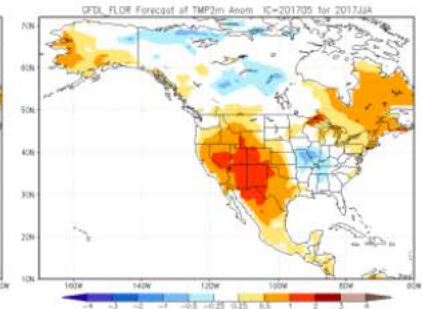
**CMC1 CanCM3**



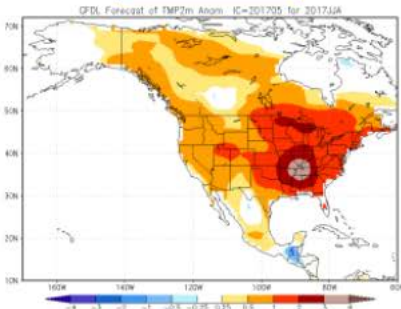
**CMC2 CanCM4**



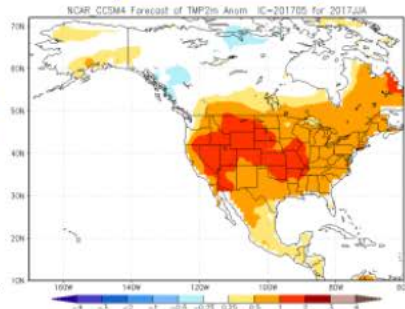
**GFDL FLOR**



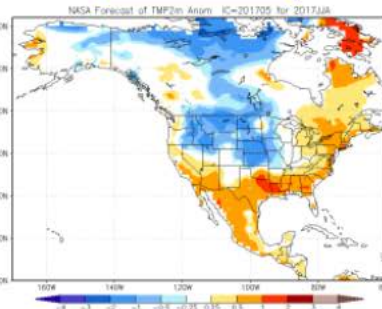
**GFDL CM2.1**



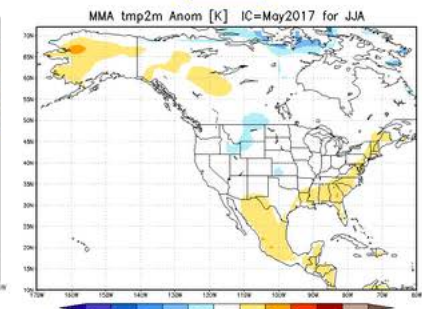
**NCAR CCSM4**



**NASA GEOS5**



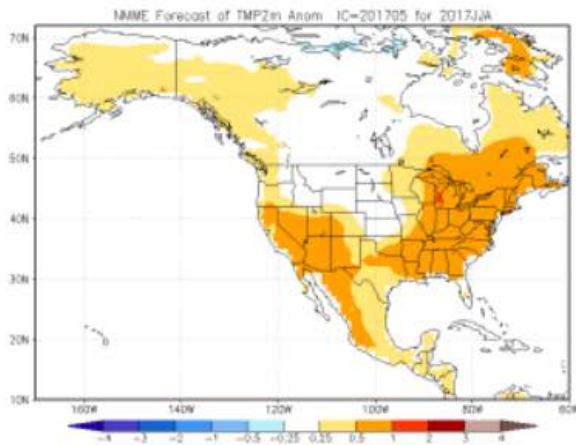
**IMME**



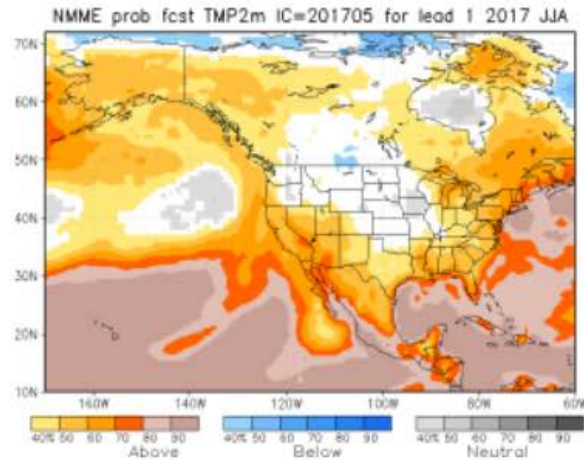


# North American Multi-Model Ensemble

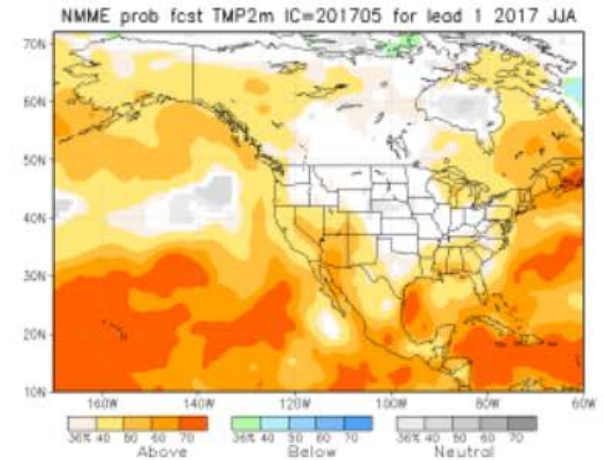
## NMME



## Prob fcst



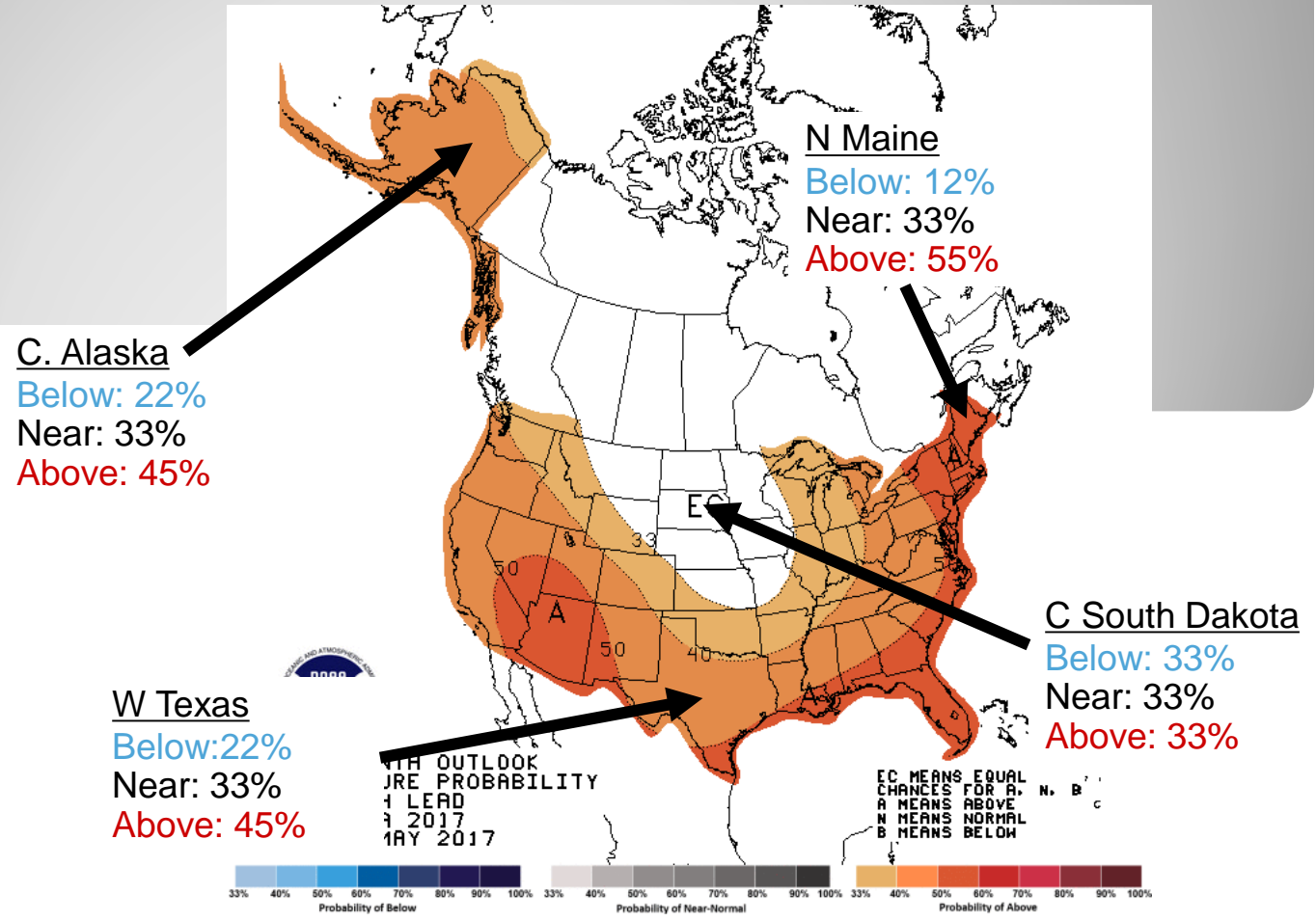
## PAC calib. prob fcst



Forecast updated May 8, 2017

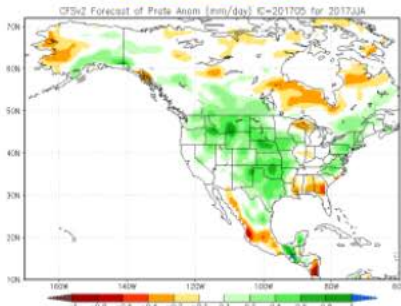


# June – August 2017 Temperature Outlook

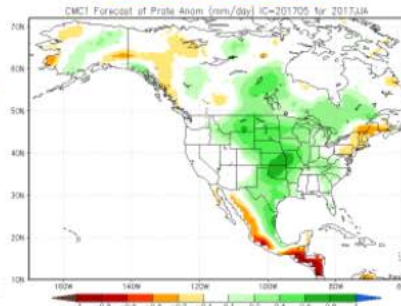


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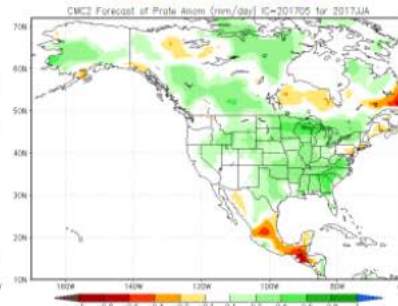
**NCEP CFSv2**



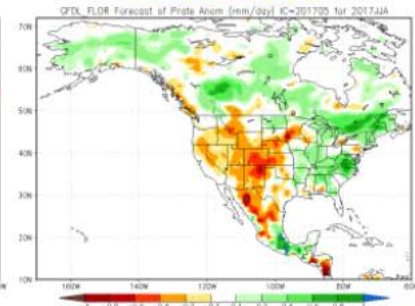
**CMC1 CanCM3**



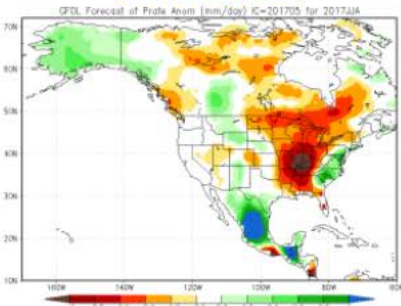
**CMC2 CanCM4**



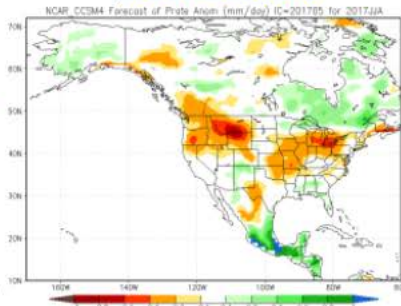
**GFDL FLOR**



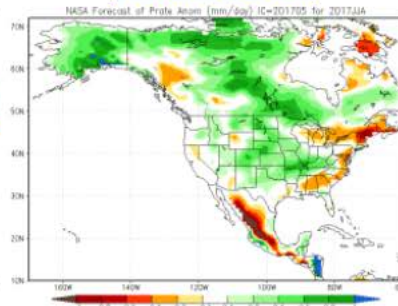
**GFDL CM2.1**



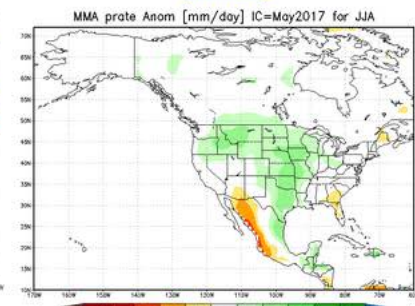
**NCAR CCSM4**



**NASA GEOS5**

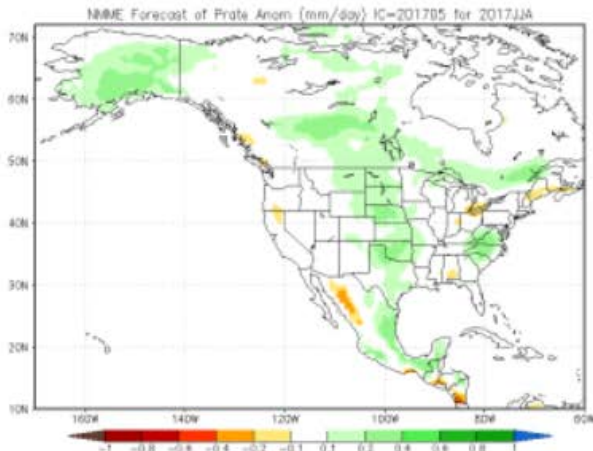


**IMME**

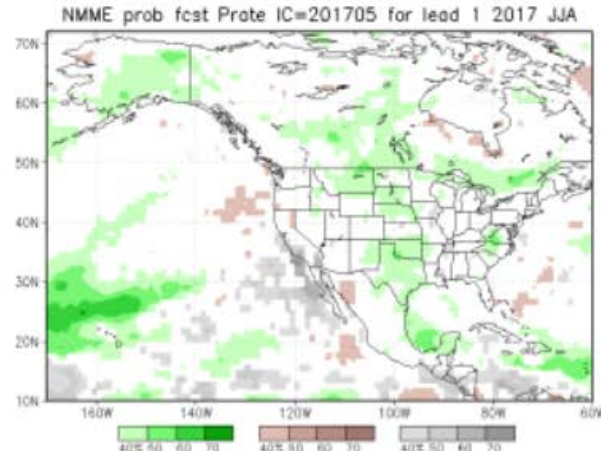


# North American Multi-Model Ensemble

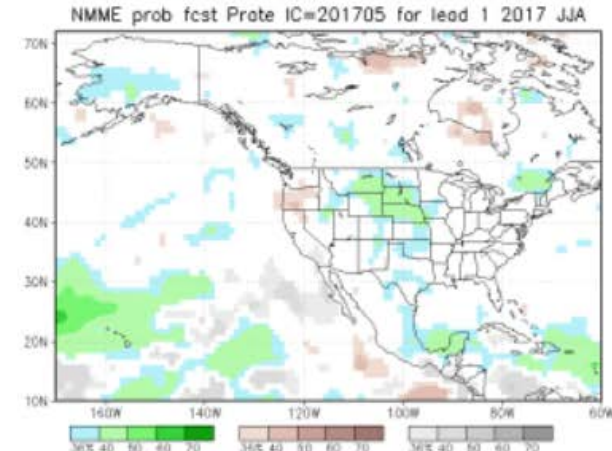
## NMME



## Prob fcst



## PAC calib. prob fcst



Forecast updated May 8, 2017



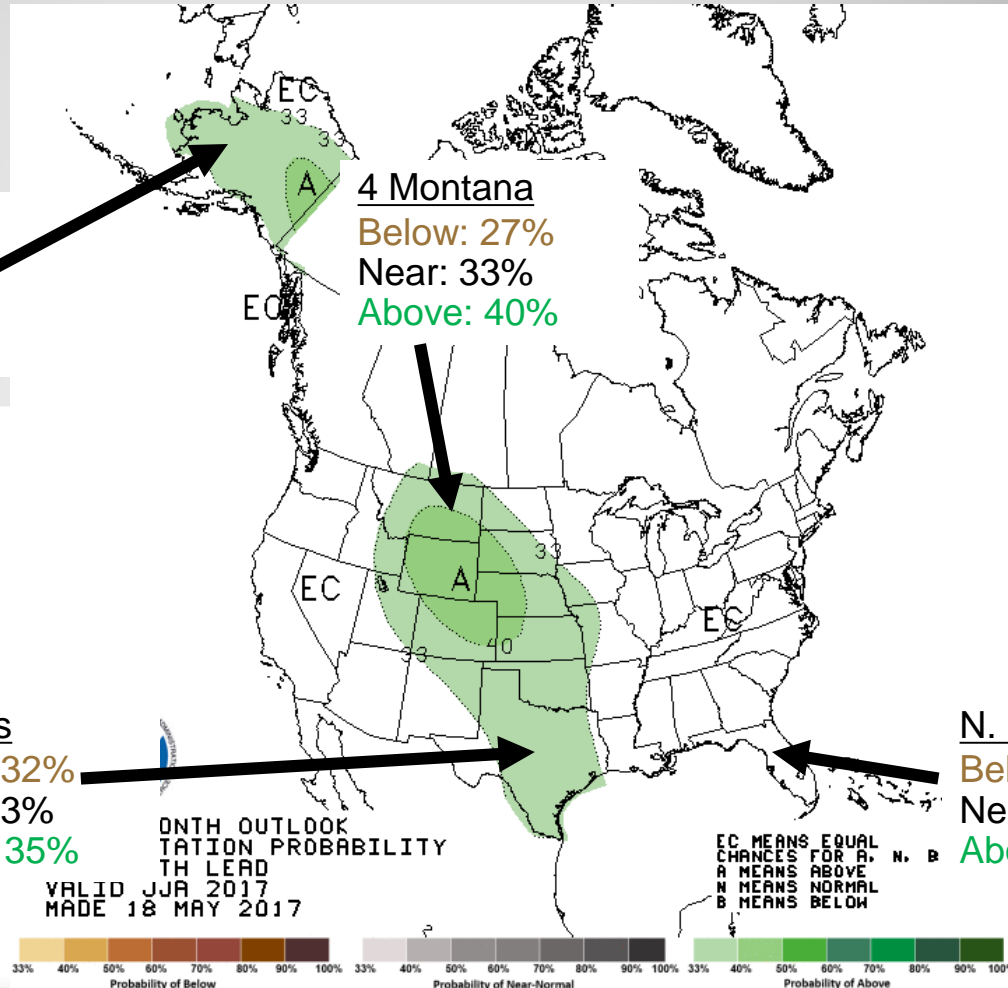
# June – August 2017 Precipitation Outlook

W. Alaska  
Below: 31%  
Near: 33%  
Above: 36%

4 Montana  
Below: 27%  
Near: 33%  
Above: 40%

C Texas  
Below: 32%  
Near: 33%  
Above: 35%

N. Florida  
Below: 33%  
Near: 33%  
Above: 33%



# Summary

- SSTs are average to weakly above average across the central and eastern equatorial Pacific Ocean.
- All atmospheric indicators over the Tropical Pacific are quite neutral.
- Temperature Outlooks for June – August favor above average temperatures over large parts of the country with the exception of the central and northern Plains.
- Precipitation Outlooks favor above median precipitation in the middle of the country from the northern Rockies extending Southeastward into Texas.