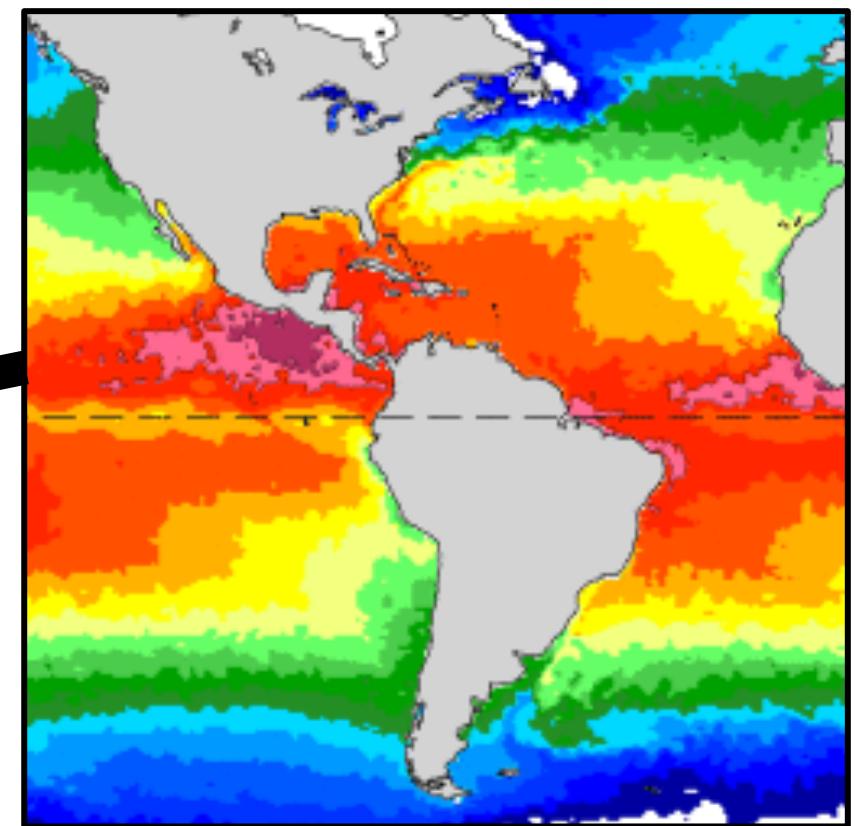
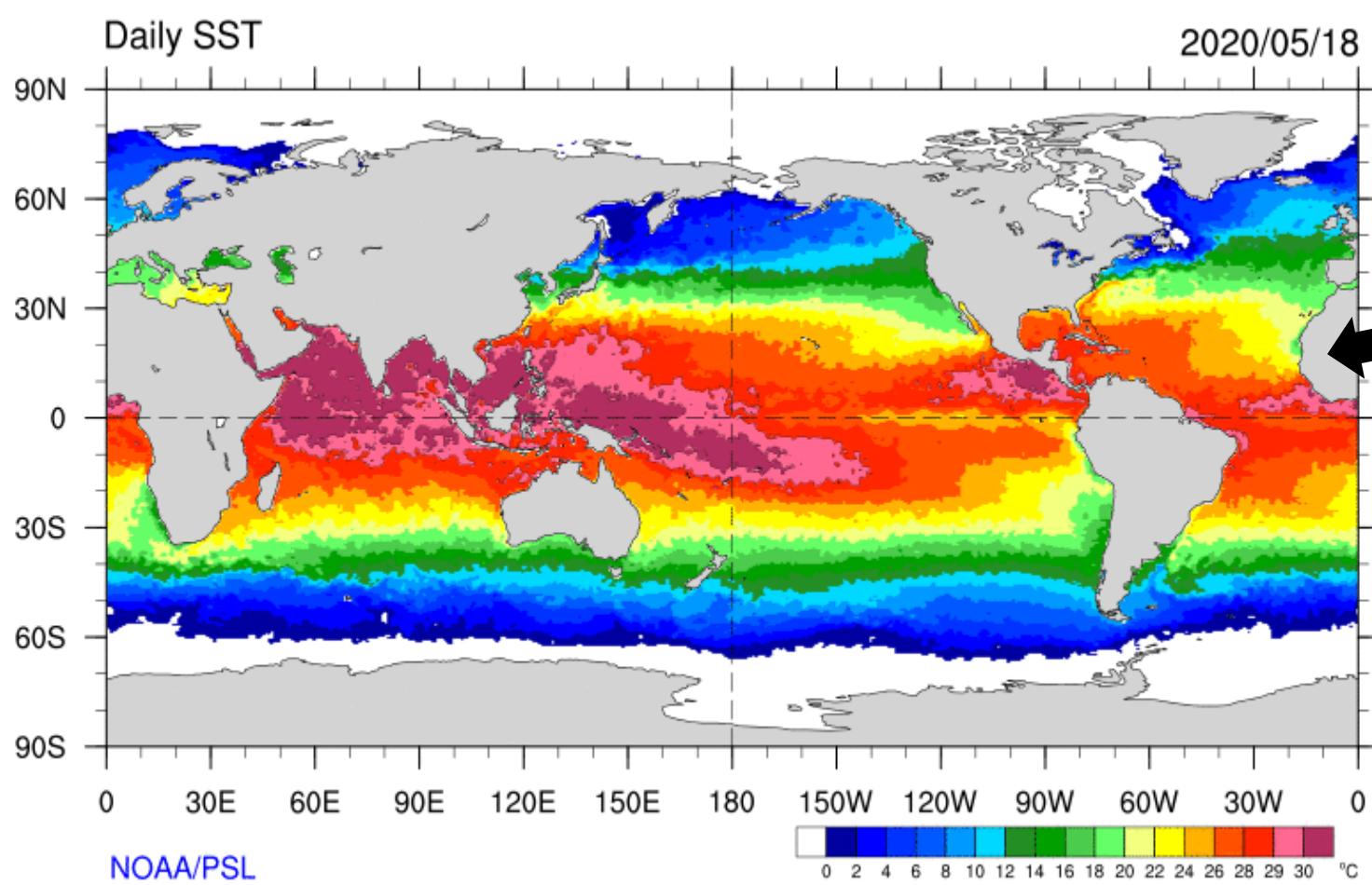




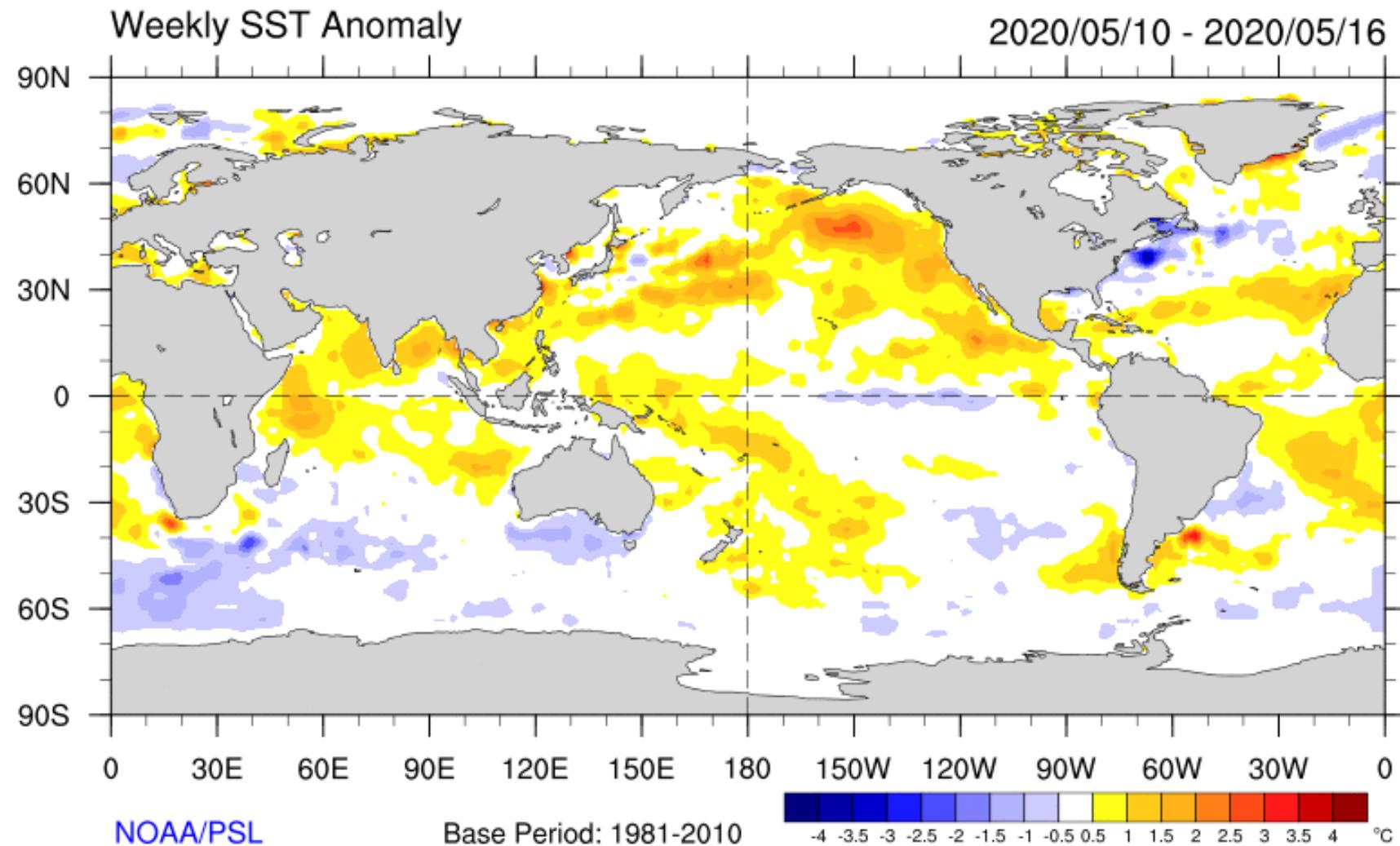
Monthly Regional Focus Group Session

Wednesday 20 May 2020

Current Sea Surface Temperatures

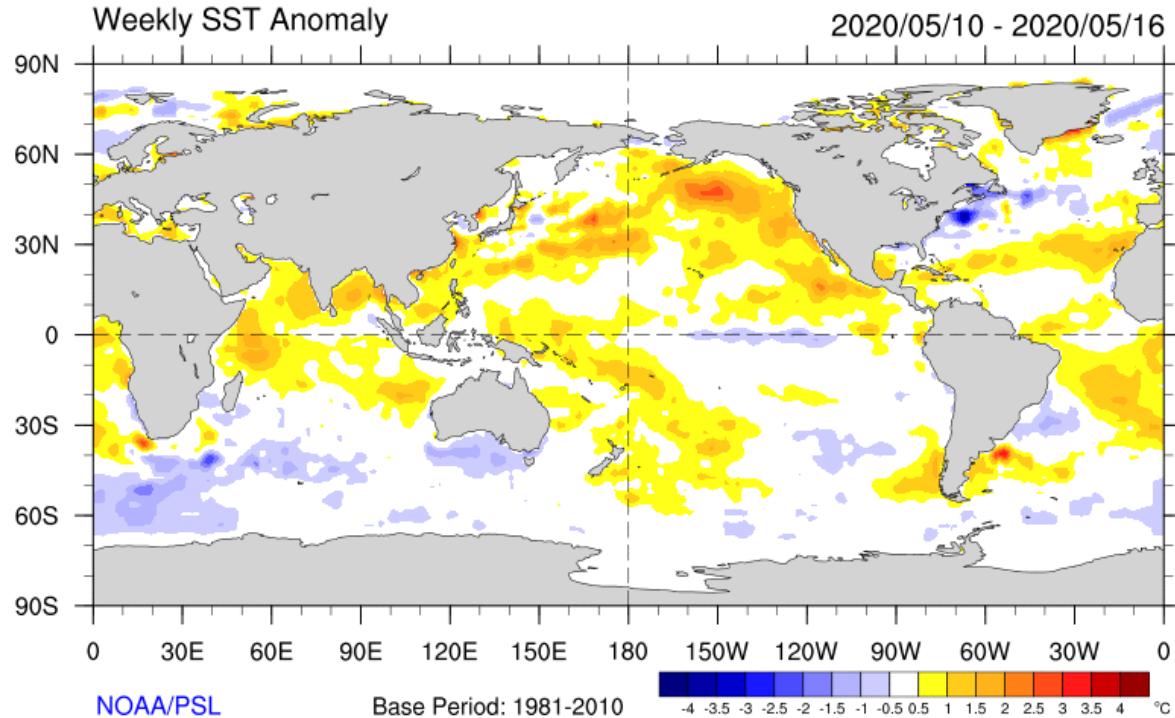


Sea Surface Temperature Anomalies (Last Week)

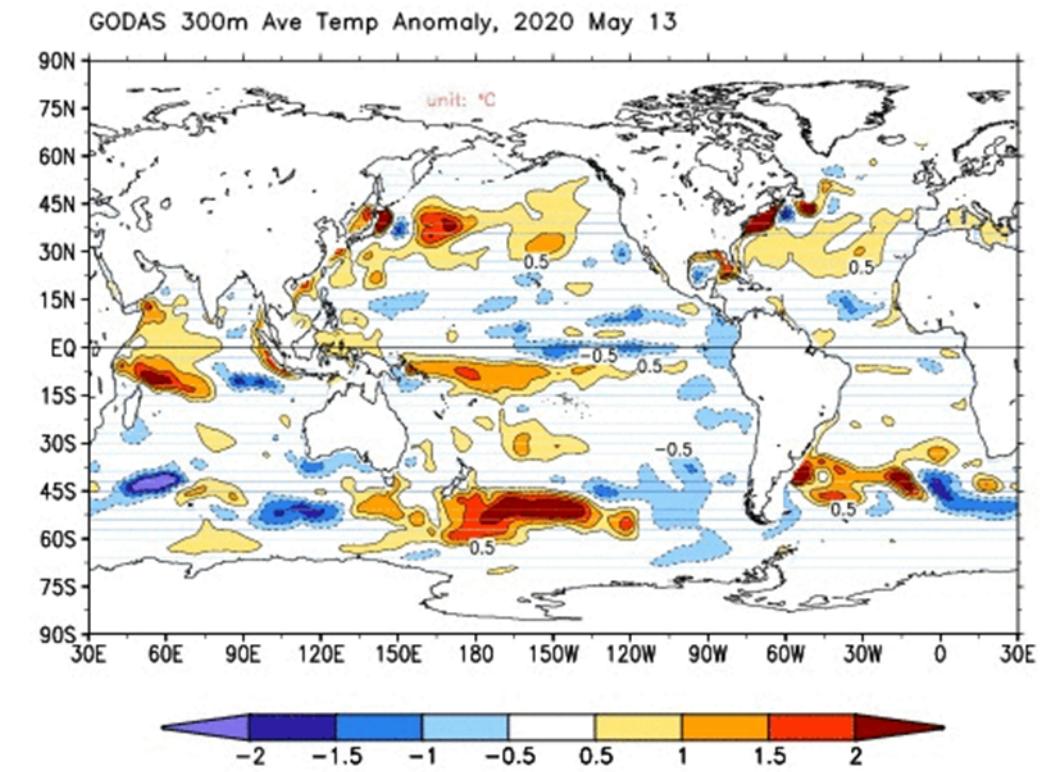


Are the Surface Anomalies Deep?

Sea Surface Temperature Anomaly
10-16 May 2020



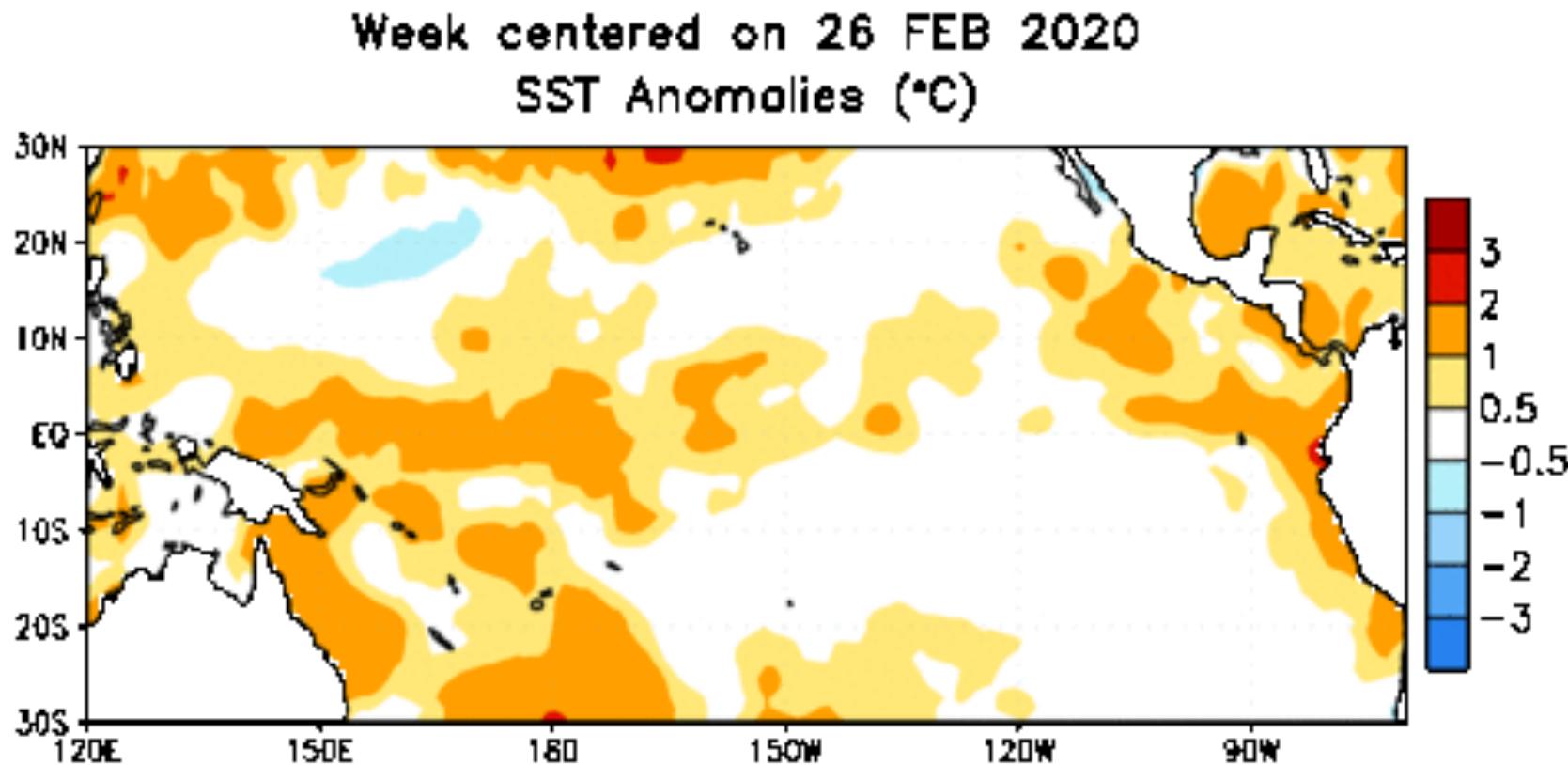
Top 300-m Sea Temperature Anomaly
13 May 2020



Source: GODAS, CPC

ENSO Neutral

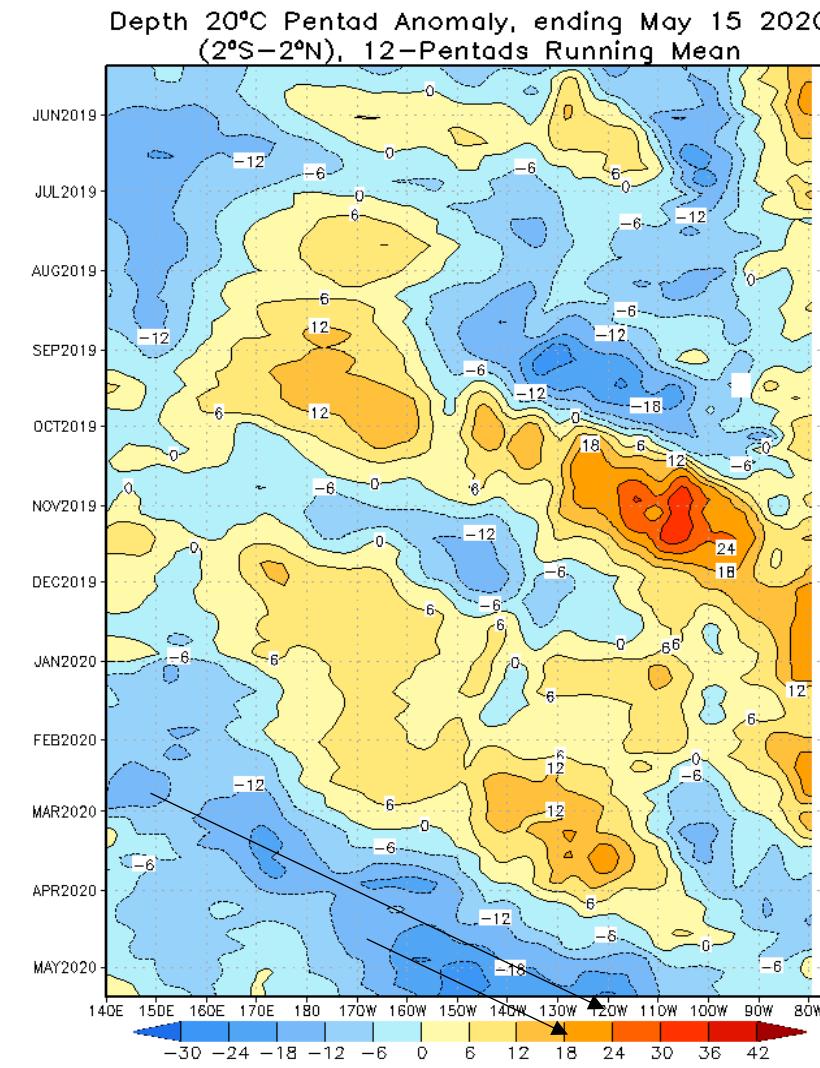
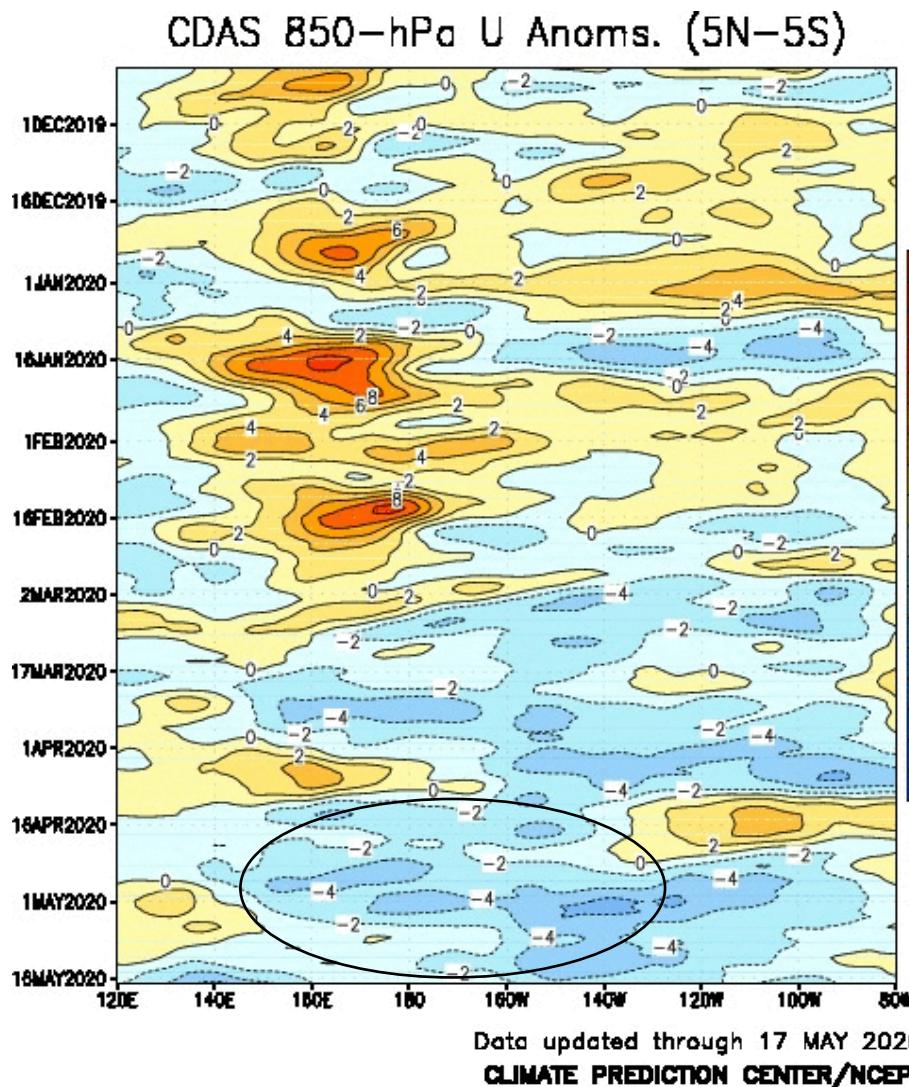
- Neutral conditions are present.
- Equatorial SSTs are near-to-above average across the Pacific.
- The tropical atmospheric circulation is generally consistent.



Source: CPC

ENSO

850 hPa Anomalous Winds and Kelvin Wave Propagation

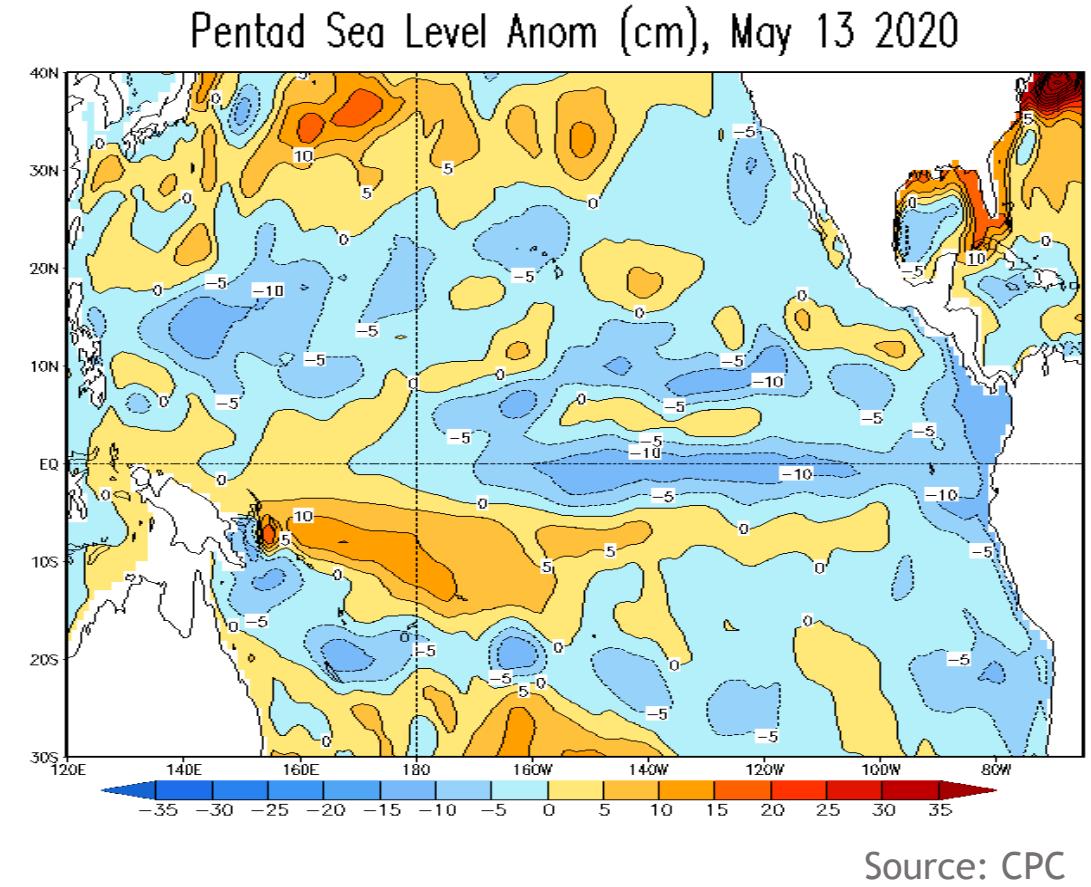
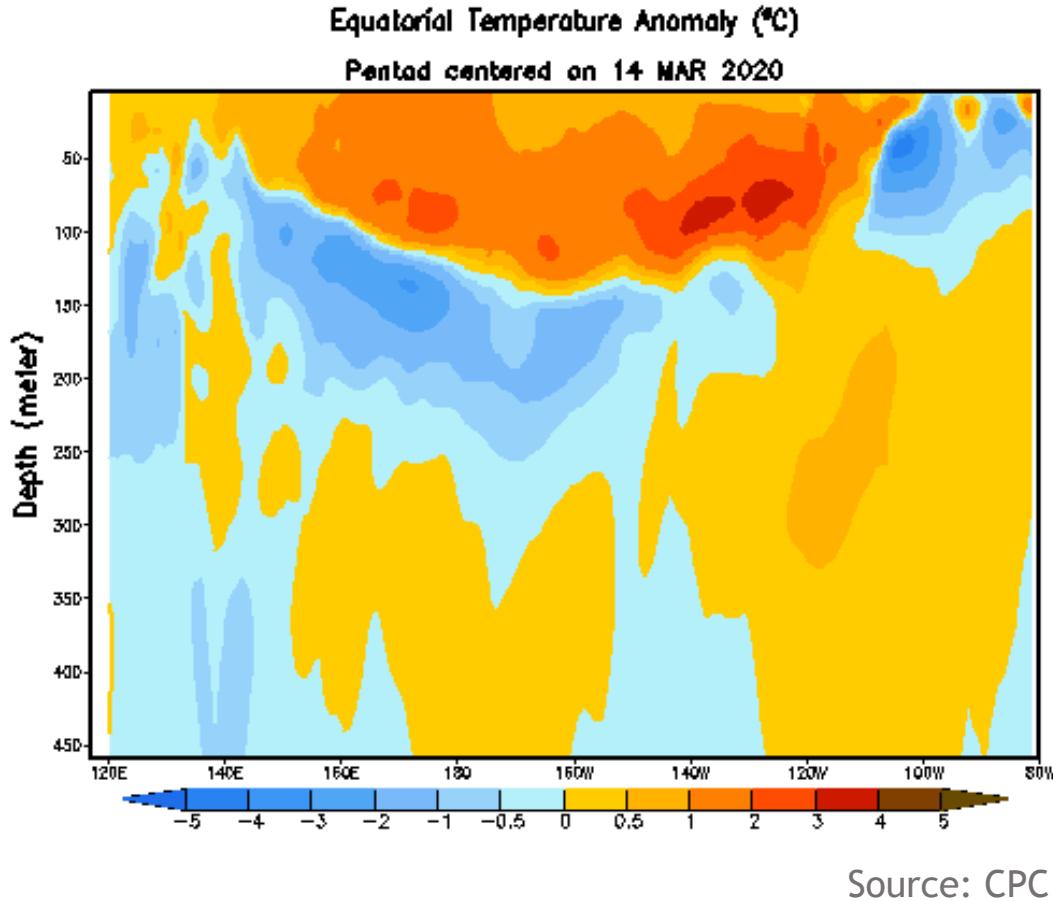


Upwelling (Cool)
Kelvin Wave arriving
in South America by
mid June.

Reinforcement of
the cooling of the
Eastern Pacific by
mid-June into July.

ENSO

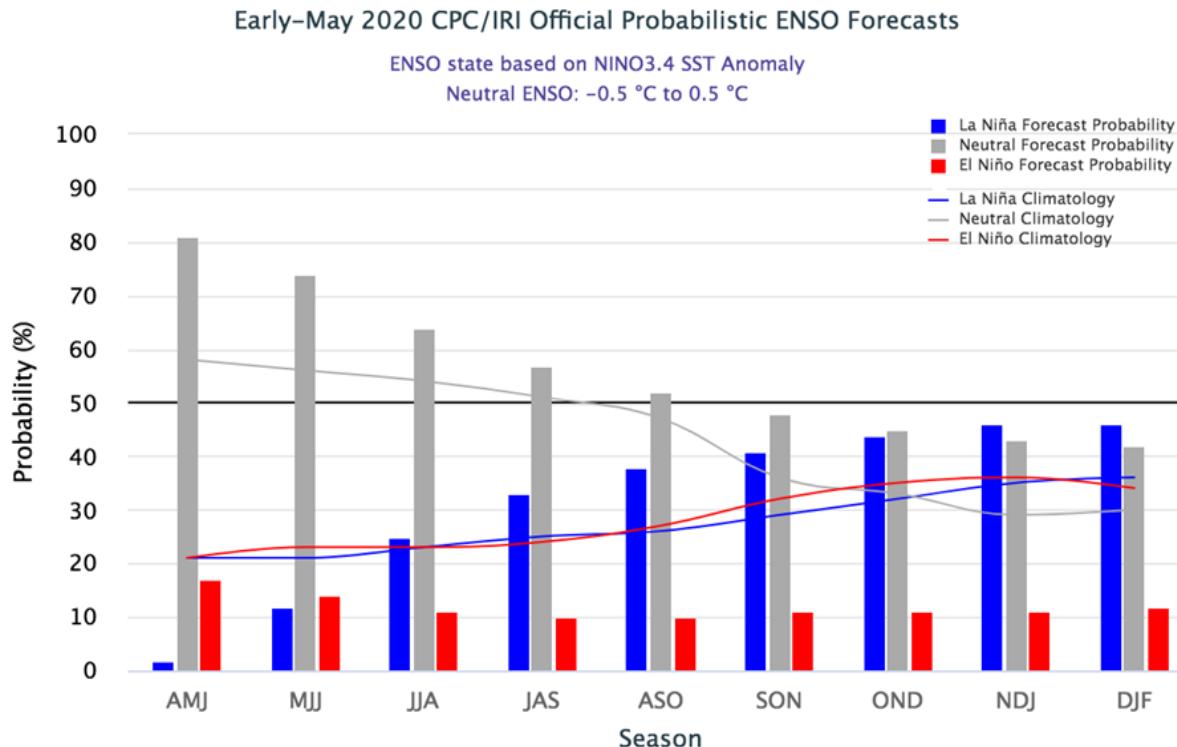
Anomalous Temperature Cross Section and Sea Level Anomalies



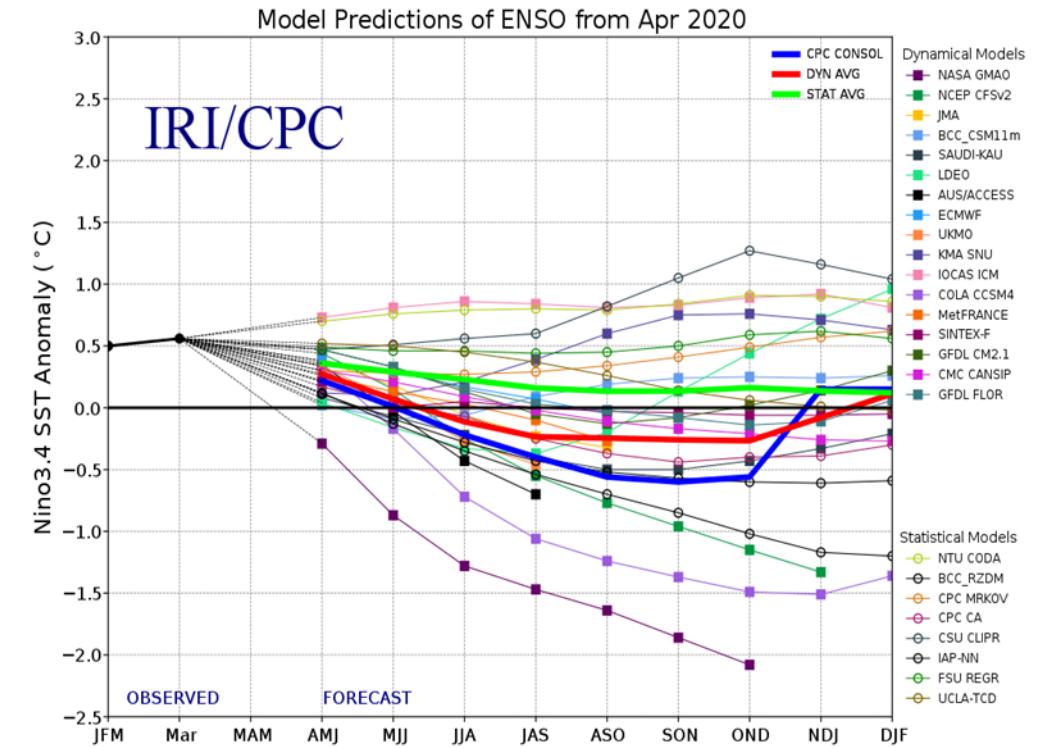
ENSO Outlook

There is a ~65% chance of ENSO-neutral during Northern Hemisphere summer 2020, with chances decreasing through the autumn (to 45-50%).*

CPC/IRI Probabilistic Forecast



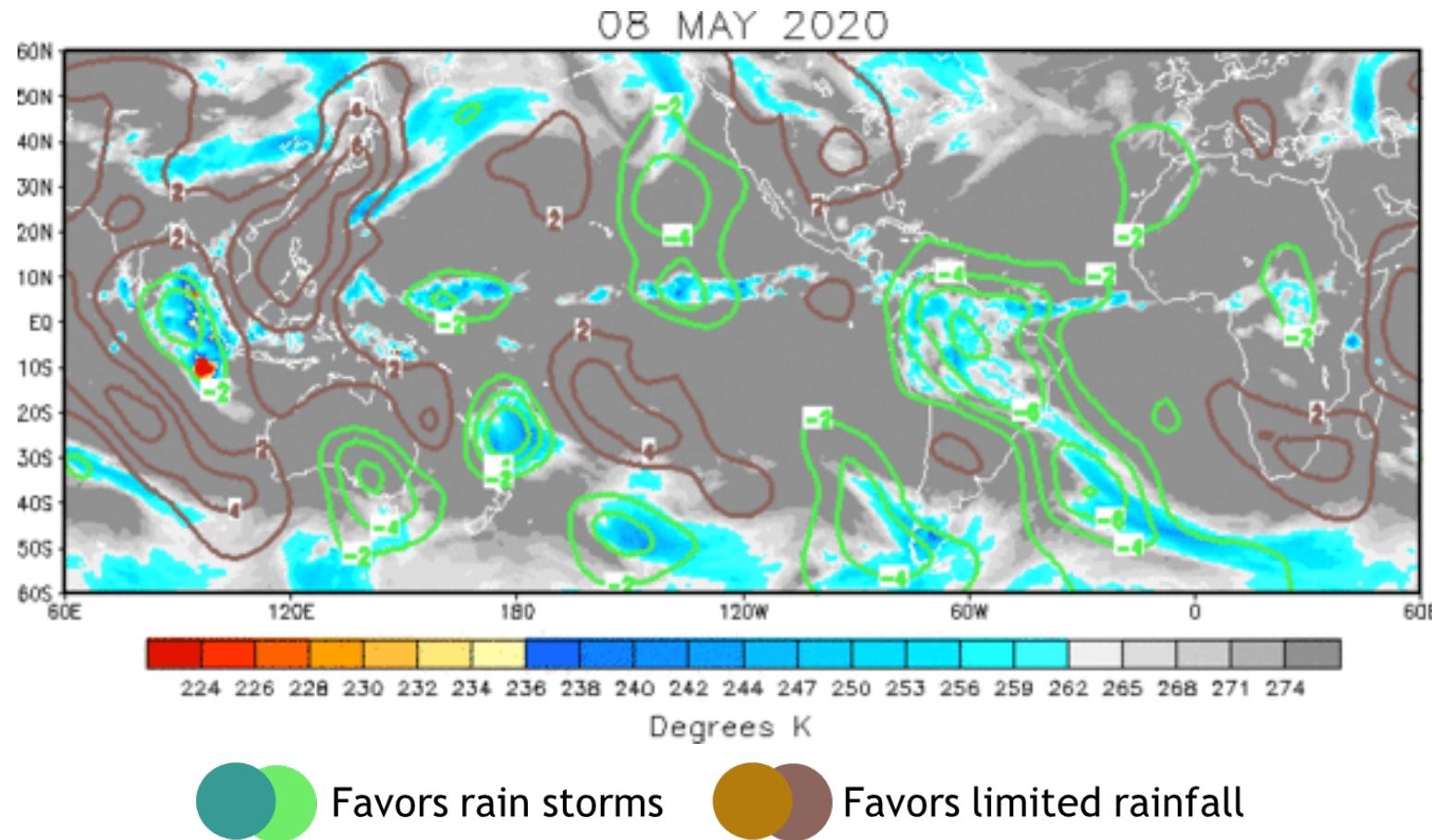
IRI/CPC Dynamic Models



Source: CPC

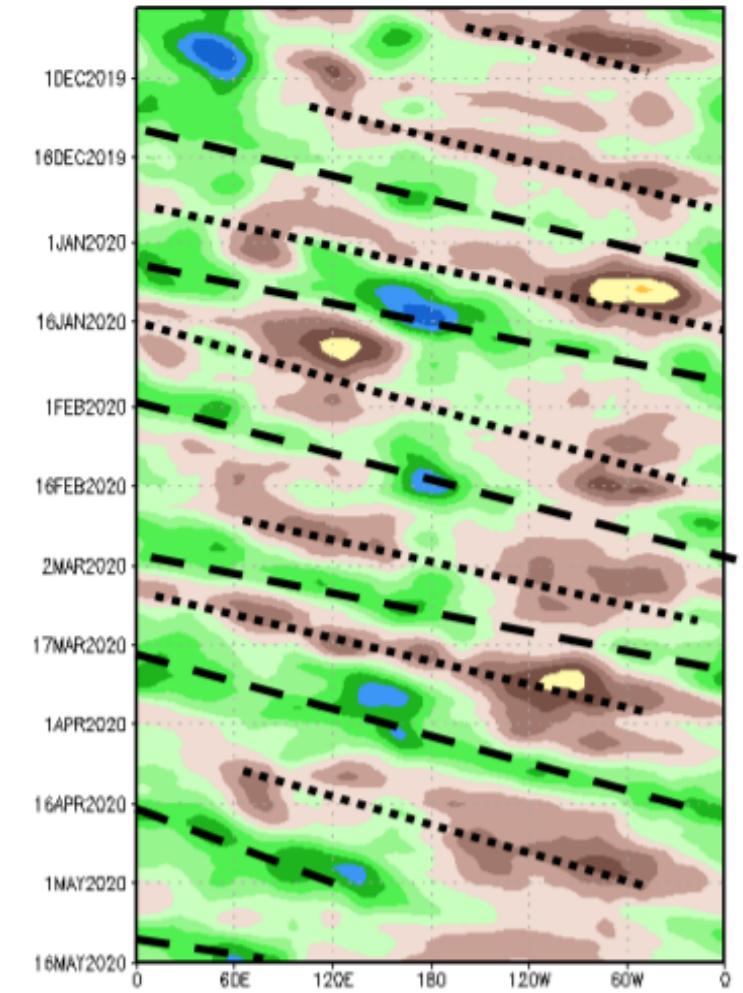
Madden-Julian Oscillation (MJO)

200 hPa Velocity Potential (CHI) and OLR Daily Anomalies



Source: CPC

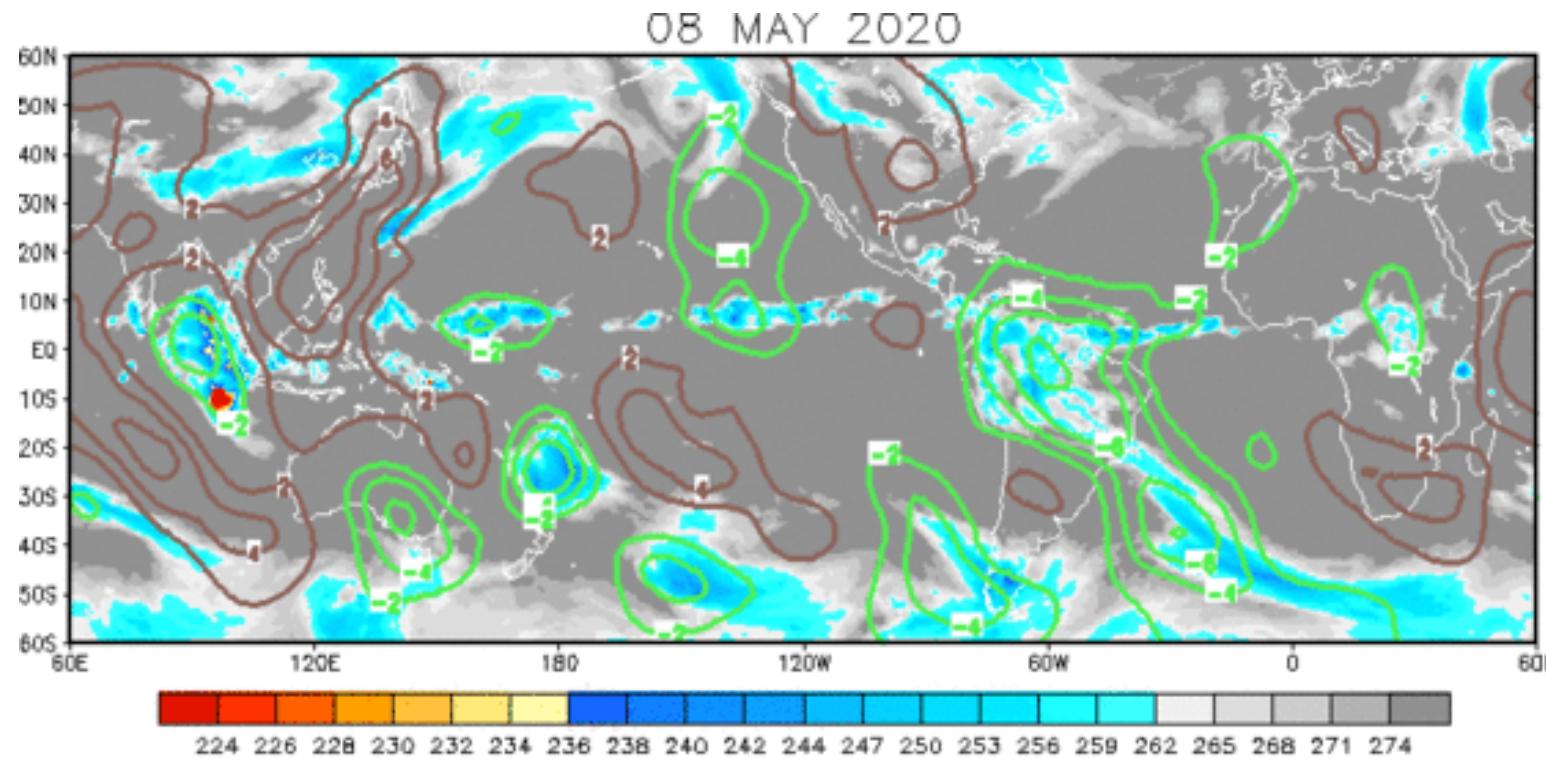
200-hPa Velocity Potential Anomaly: 5N-5S
5-day Running Mean



Source: CPC

Madden-Julian Oscillation (MJO)

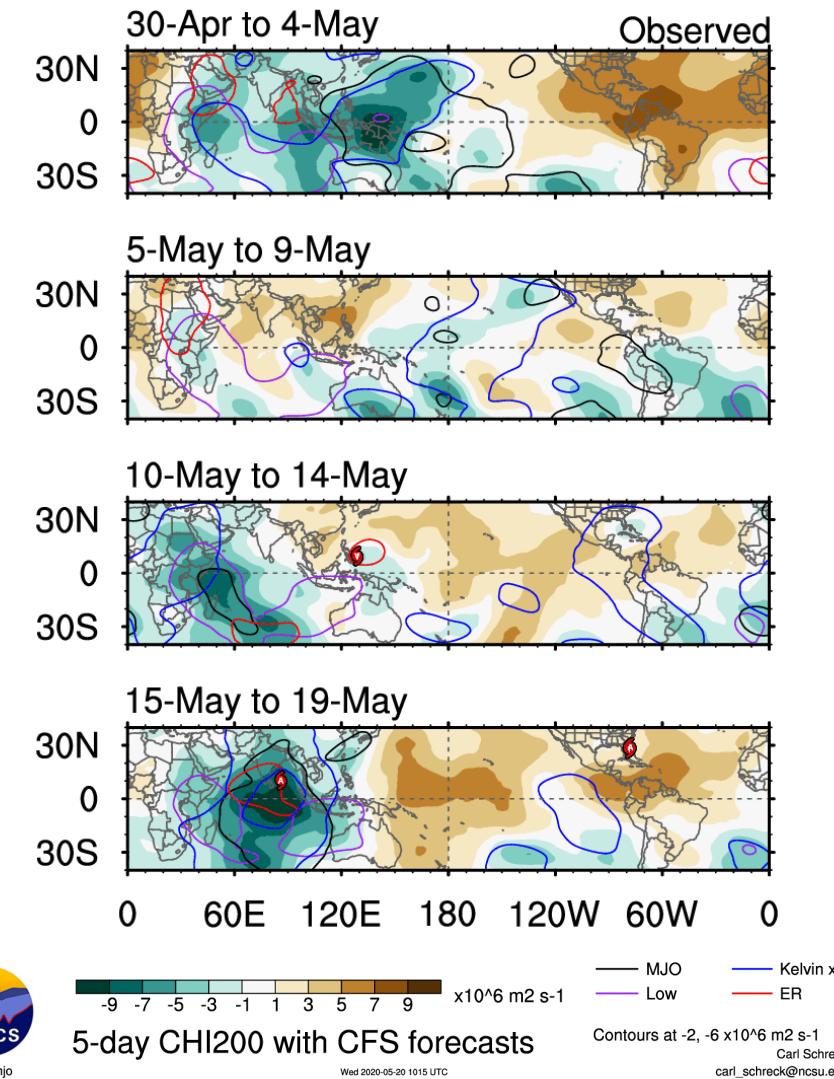
200 hPa Velocity Potential (CHI) and OLR Daily Anomalies



Favors rain storms



Favors limited rainfall

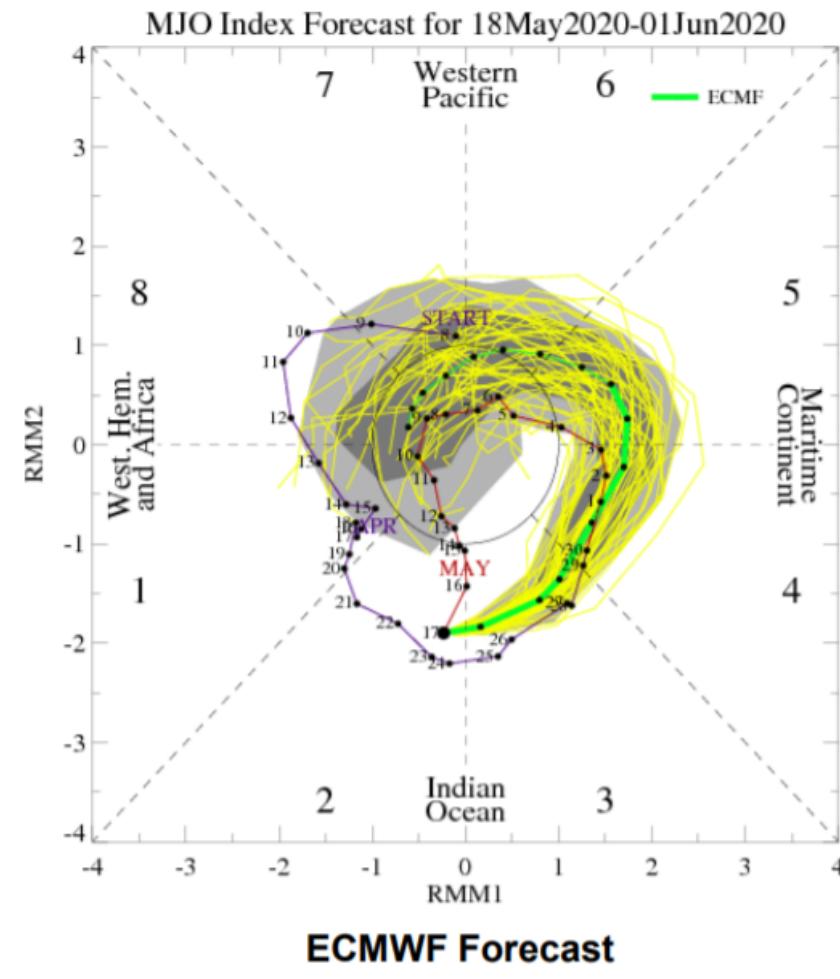
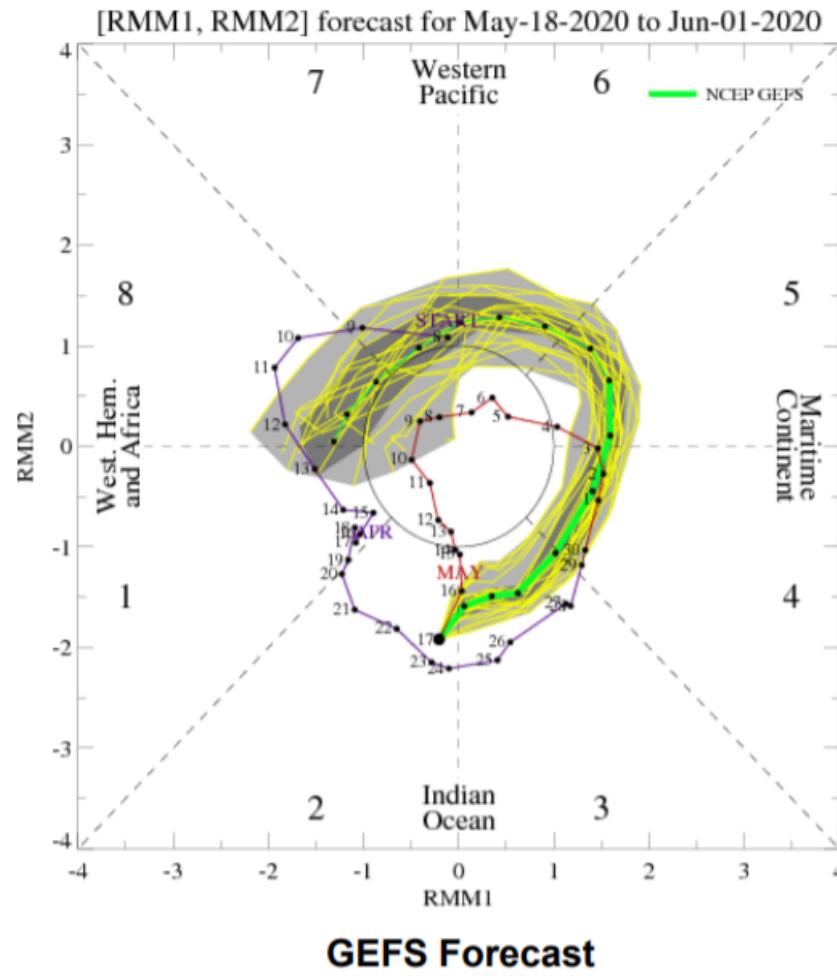


Source: NCICS

Source: CPC

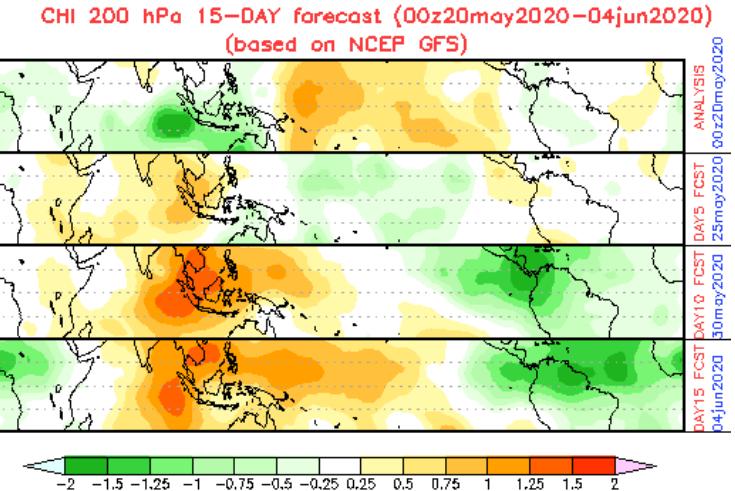
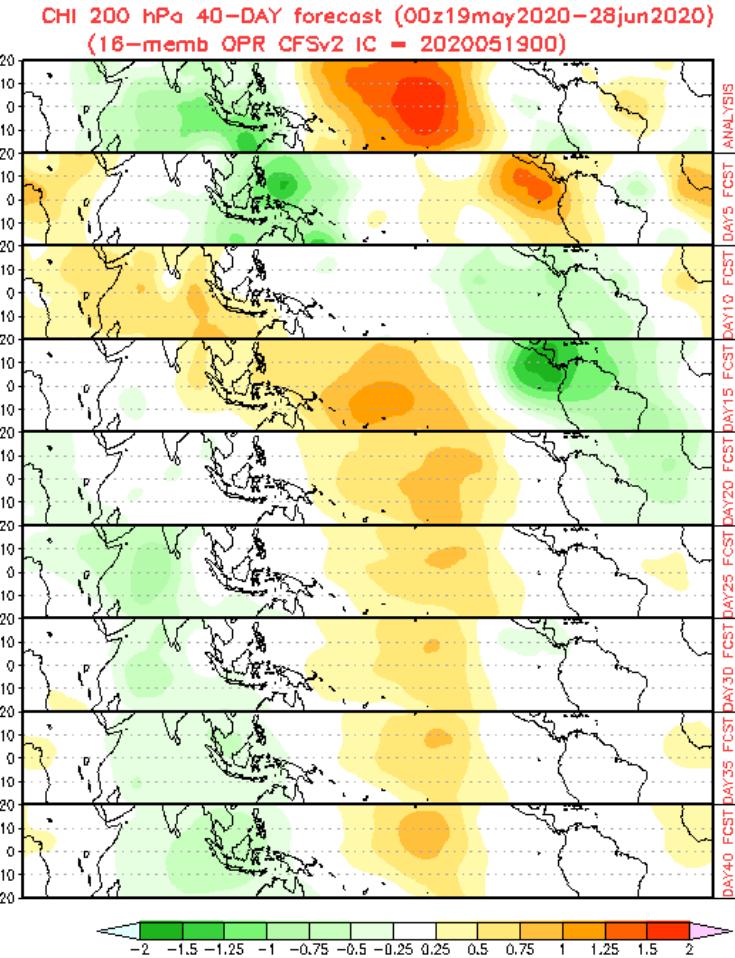
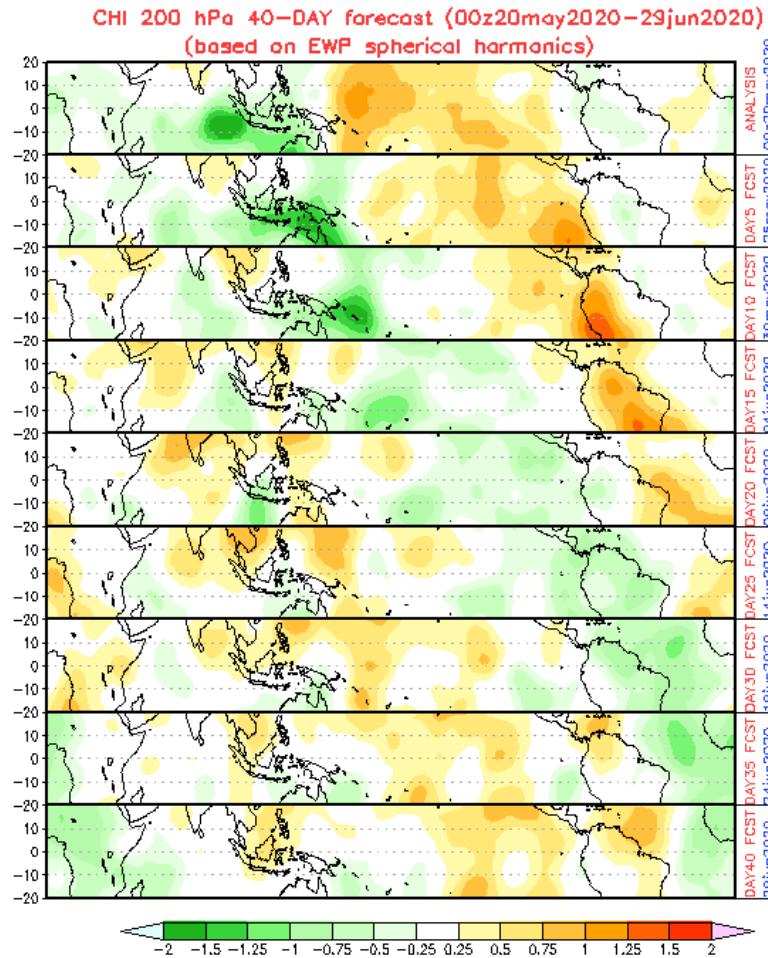
MJO Forecasts

MJO Index: Forecast Evolution



Agreement on MJO organizing, and next upper divergent phase arriving by the last week of May / first week of June.

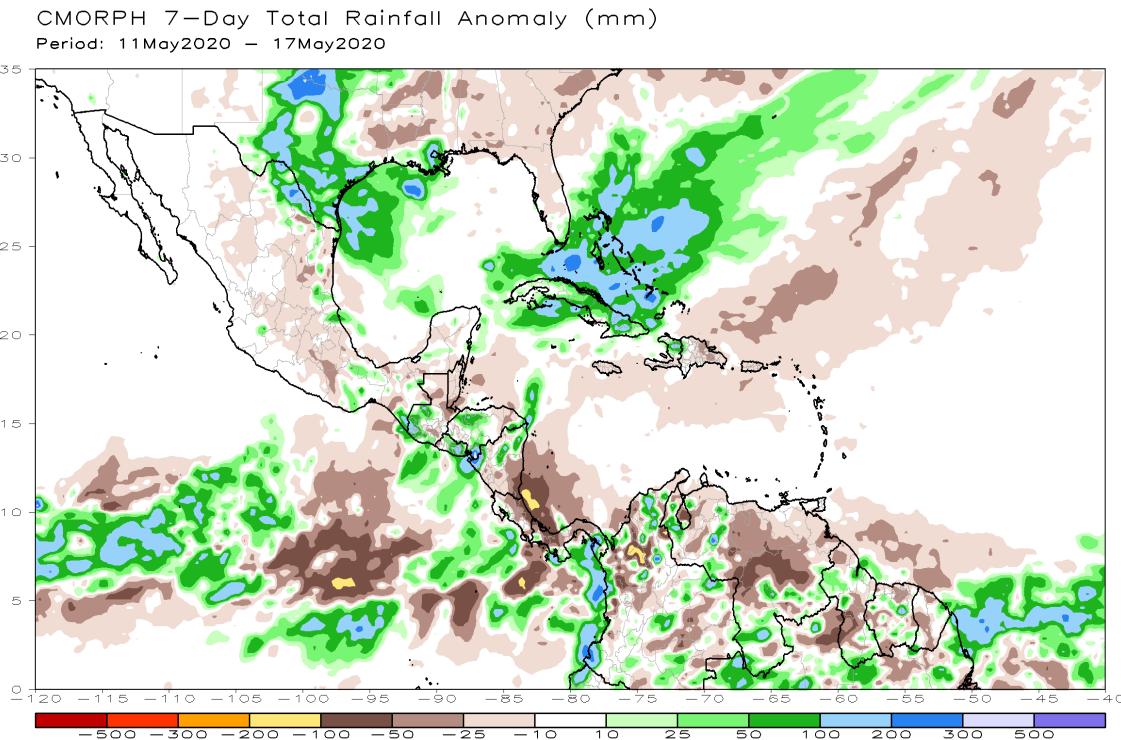
MJO Forecasts



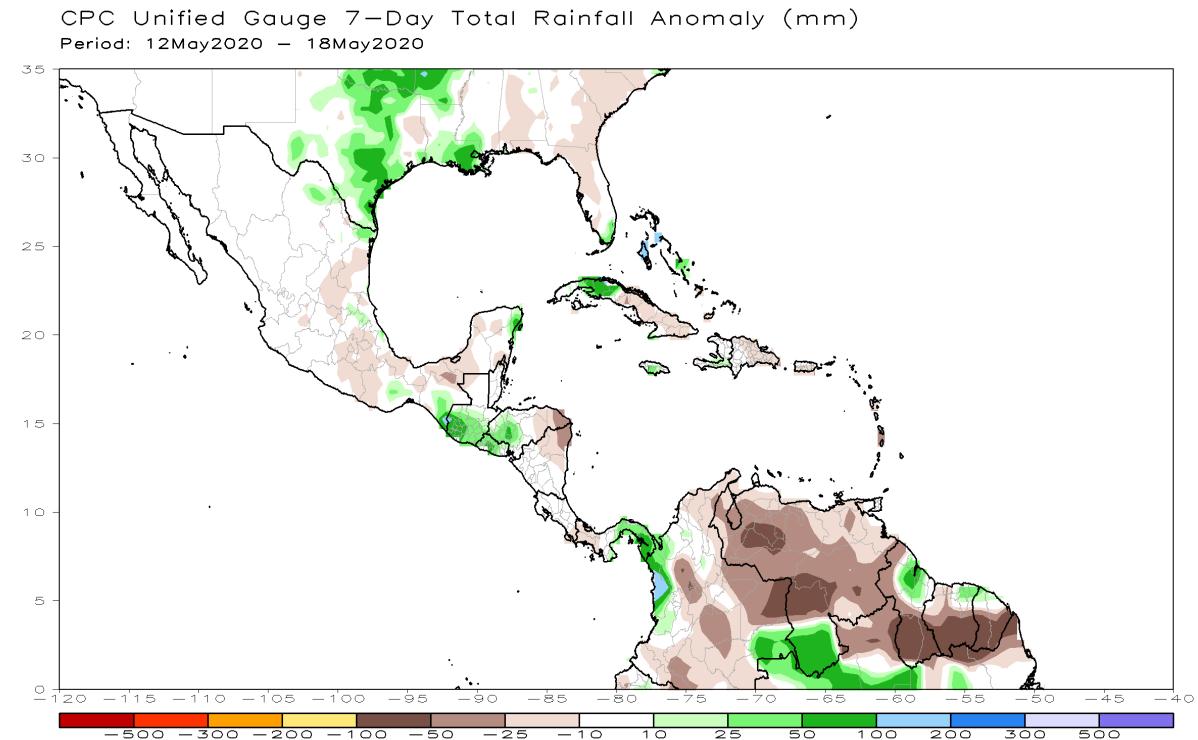
Agreement on MJO organizing, CFS also suggests upper divergent phase arriving by the end of May/first week of June.

OBSERVED: Last Week's Rainfall Anomalies

CMORPH

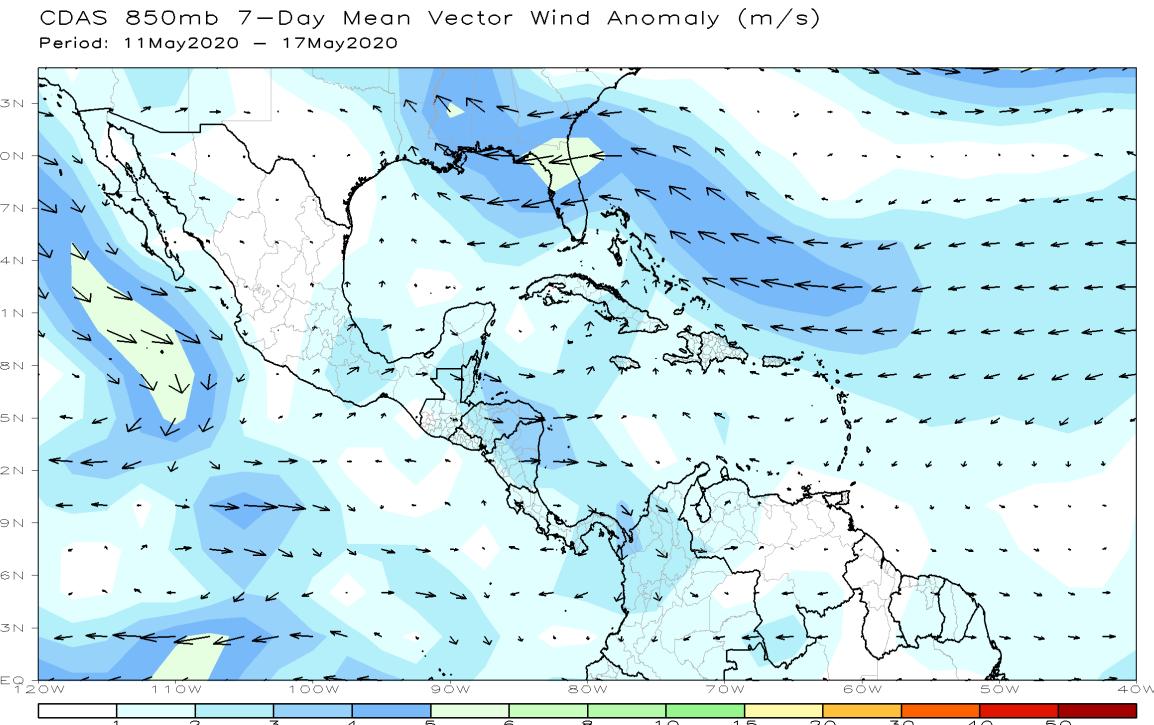


CPC Unified Analysis

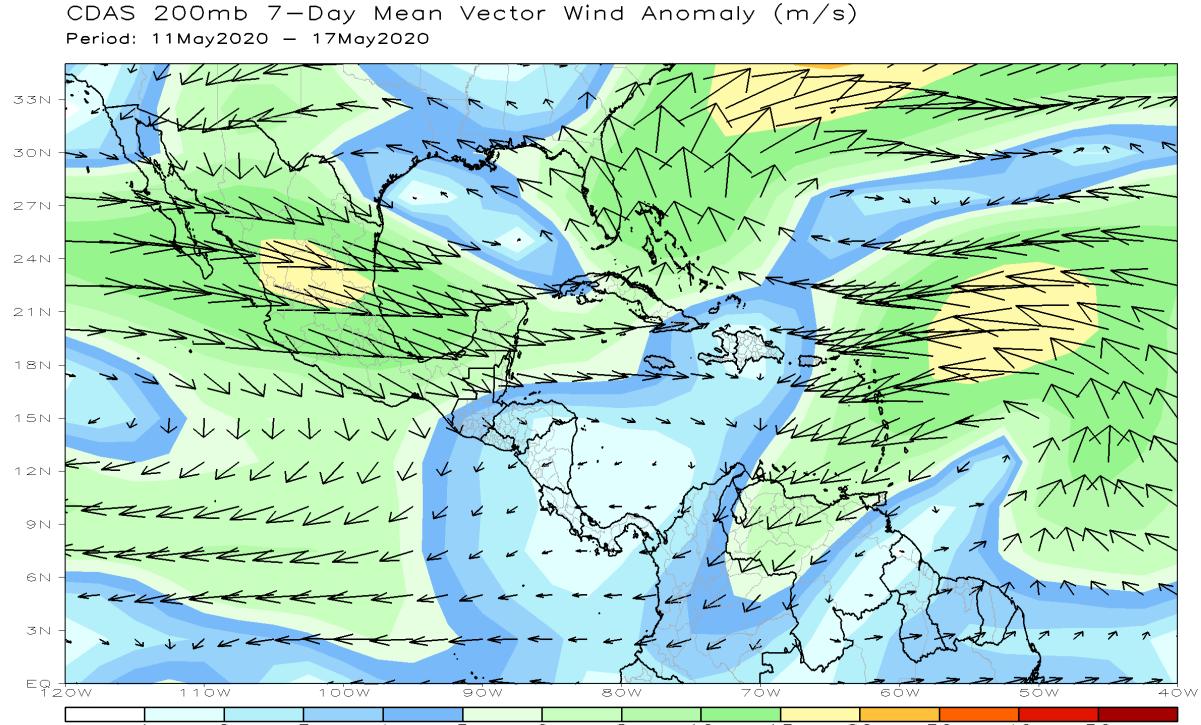


OBSERVED: Last Week's Wind Anomalies

850 hPa



200 hPa

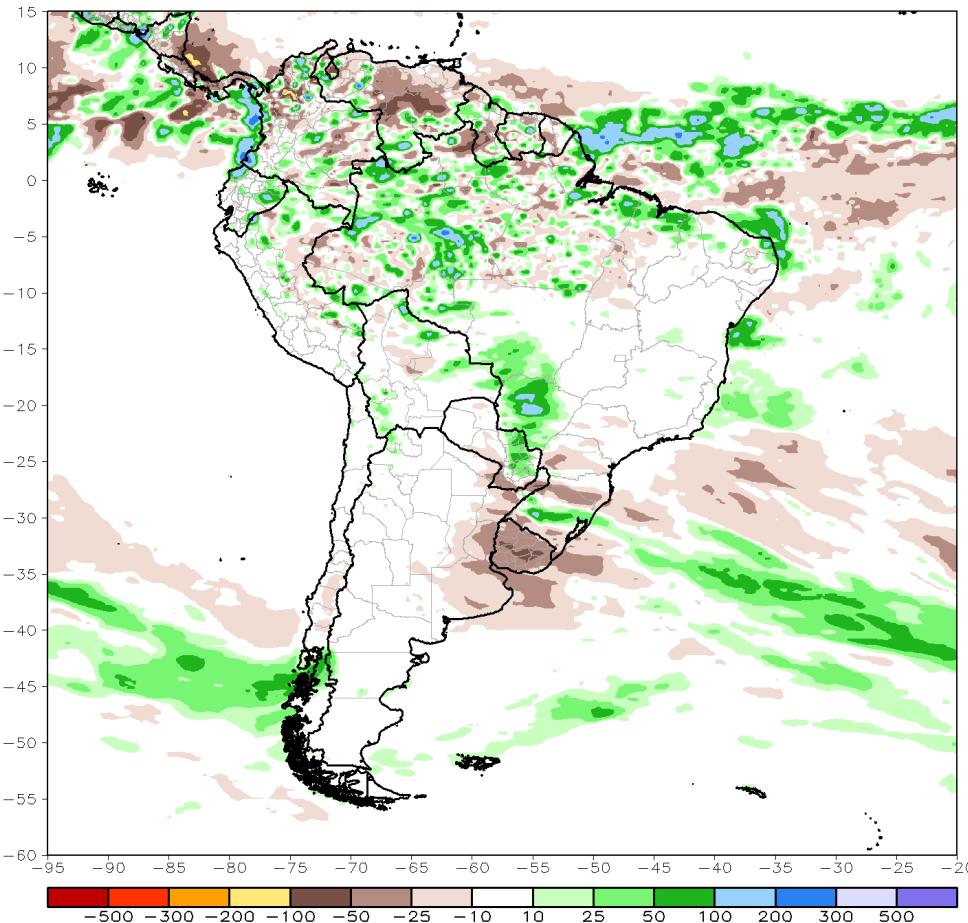


OBSERVED: Last Week's Rainfall Anomalies

CMORPH

CMORPH 7-Day Total Rainfall Anomaly (mm)

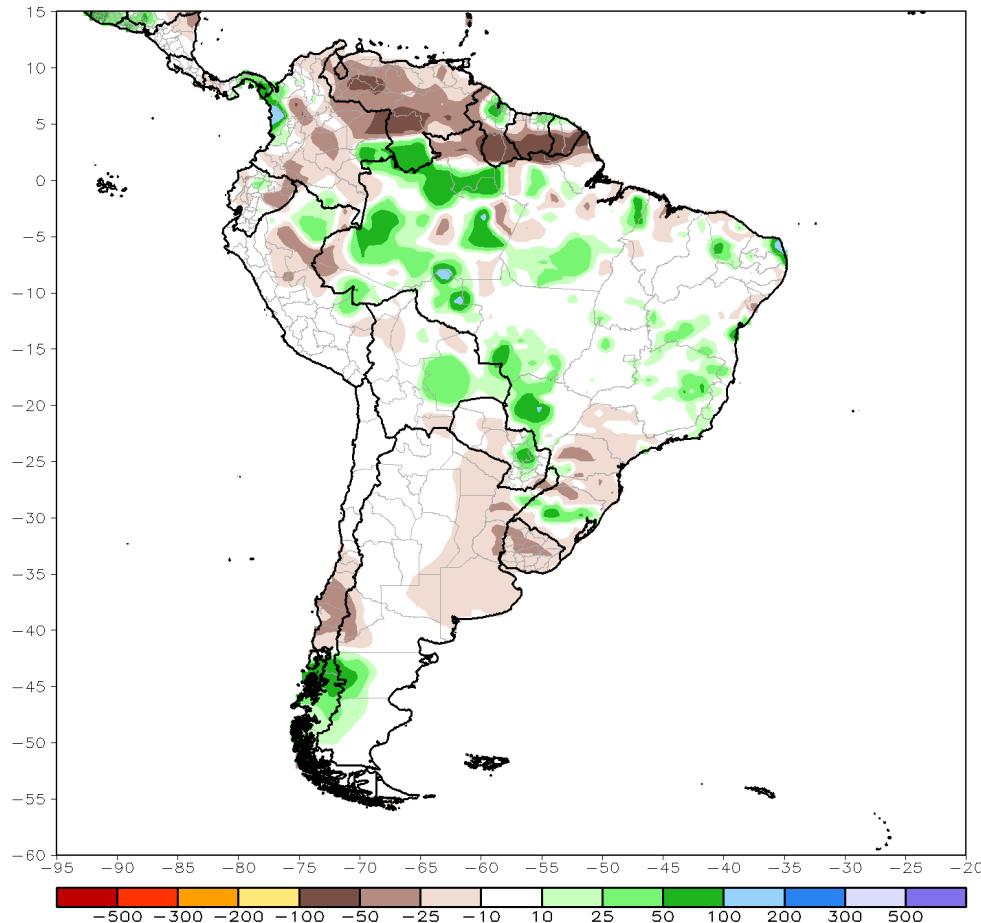
Period: 11May2020 – 17May2020



CPC Unified Analysis

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)

Period: 12May2020 – 18May2020

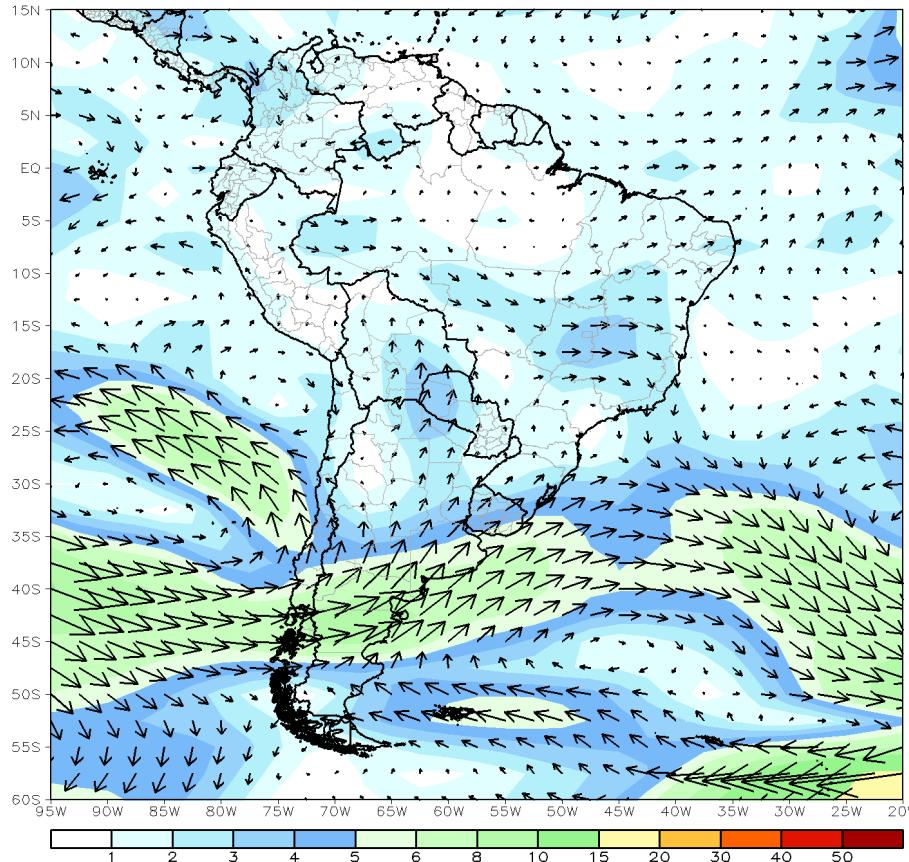


OBSERVED: Last Week's Wind Anomalies

850 hPa

CDAS 850mb 7-Day Mean Vector Wind Anomaly (m/s)

Period: 11May2020 – 17May2020



200 hPa

CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)

Period: 11May2020 – 17May2020

