

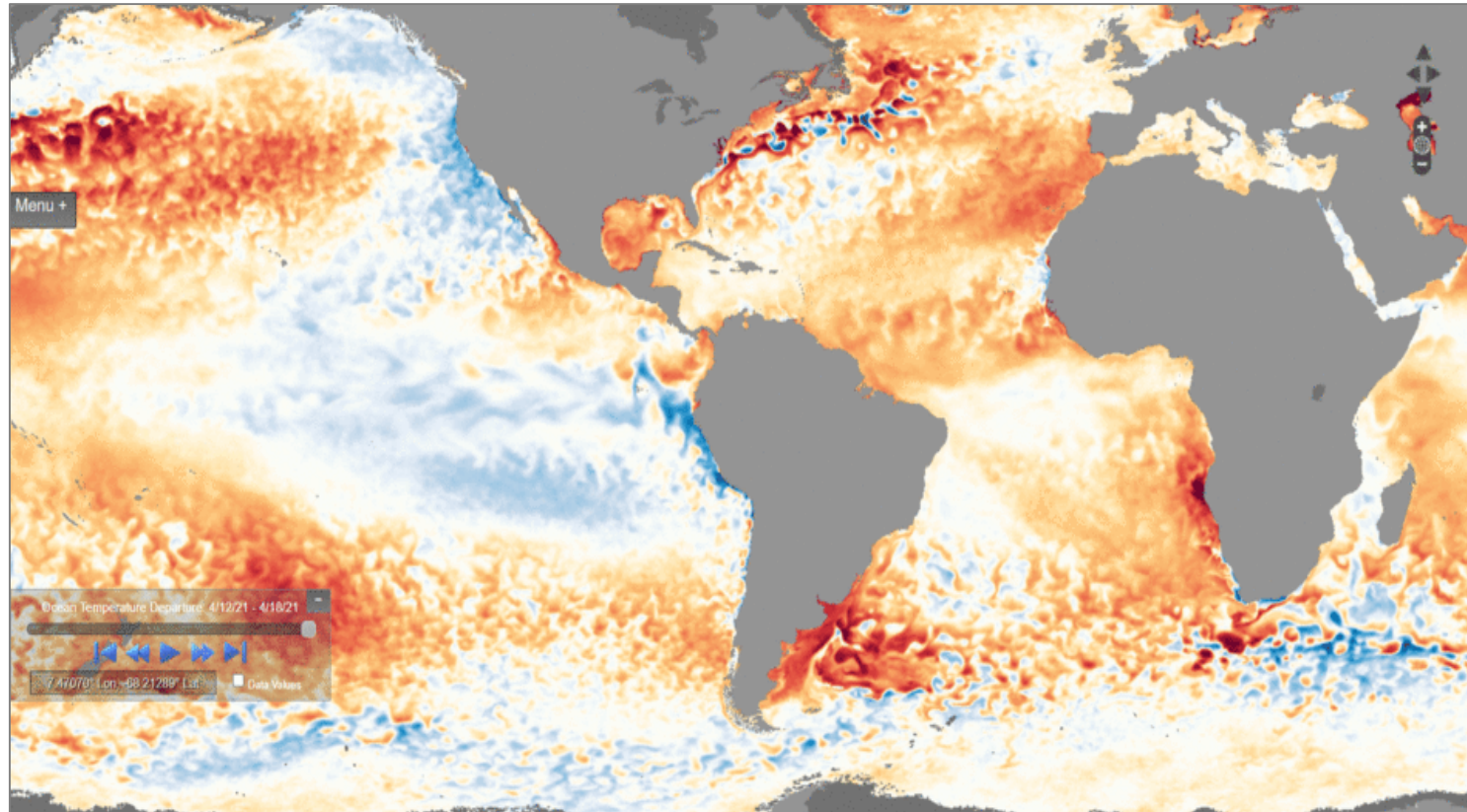


Monthly Regional Focus Group Session

Wednesday 6 May 2021

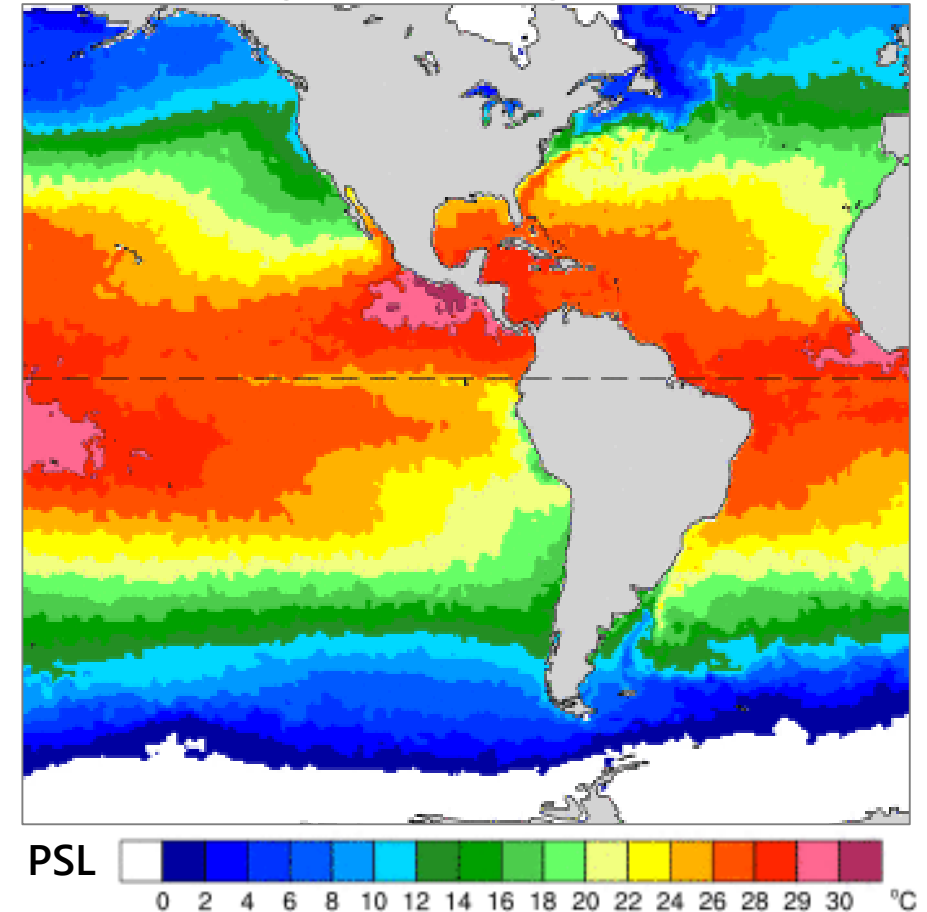
Sea Surface Temperatures

Anomaly Evolution Apr 12 – May 23



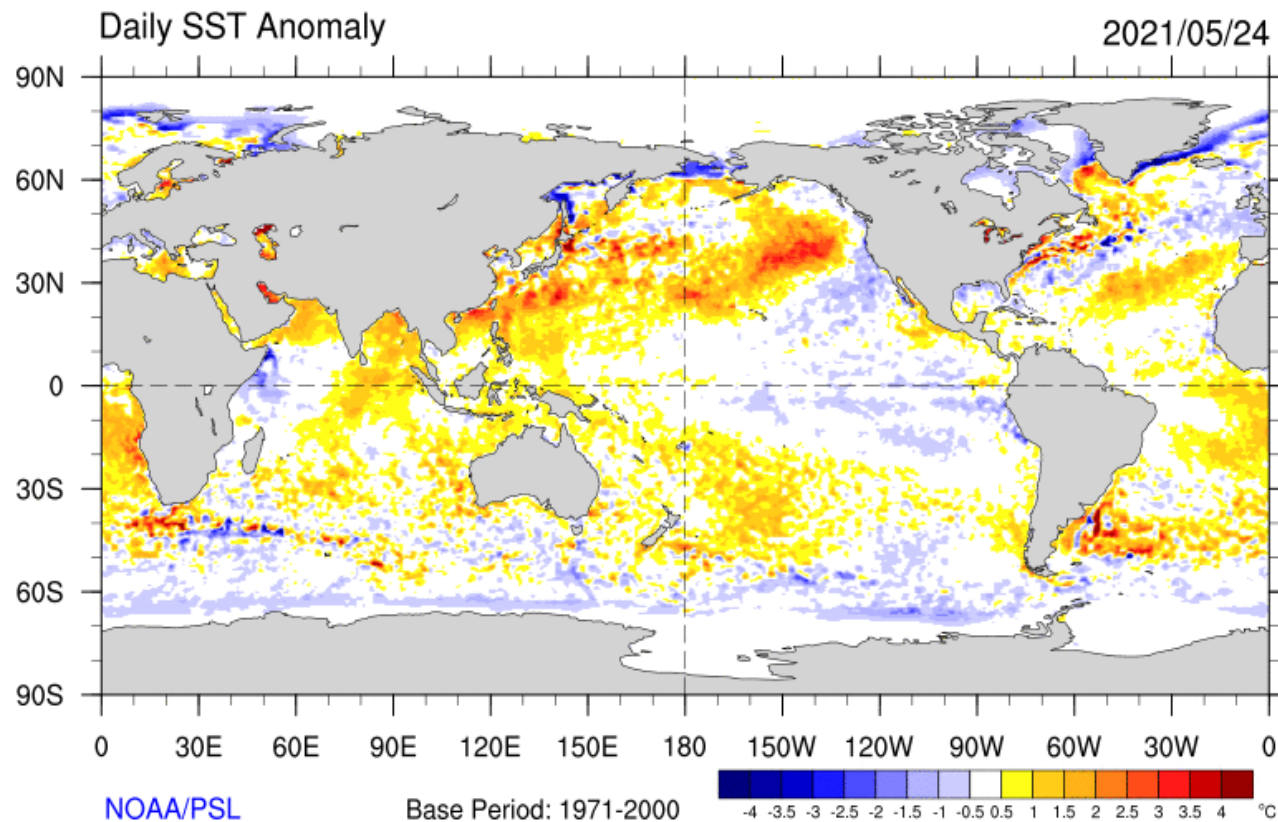
OISST, NOAA NNVL

Daily SST May 24

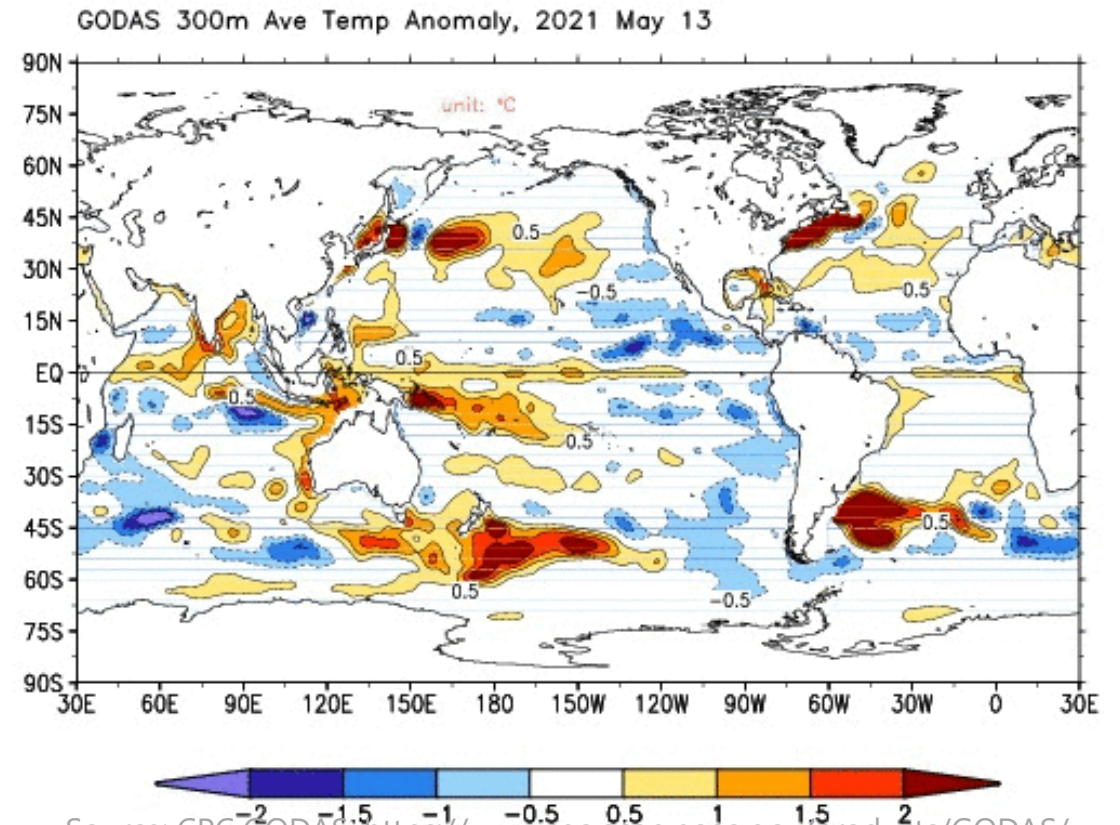


Are the anomalies deep?

Deep anomalies tend to last longer and are useful for subseasonal forecasting.



Top 300m Layer Anomaly

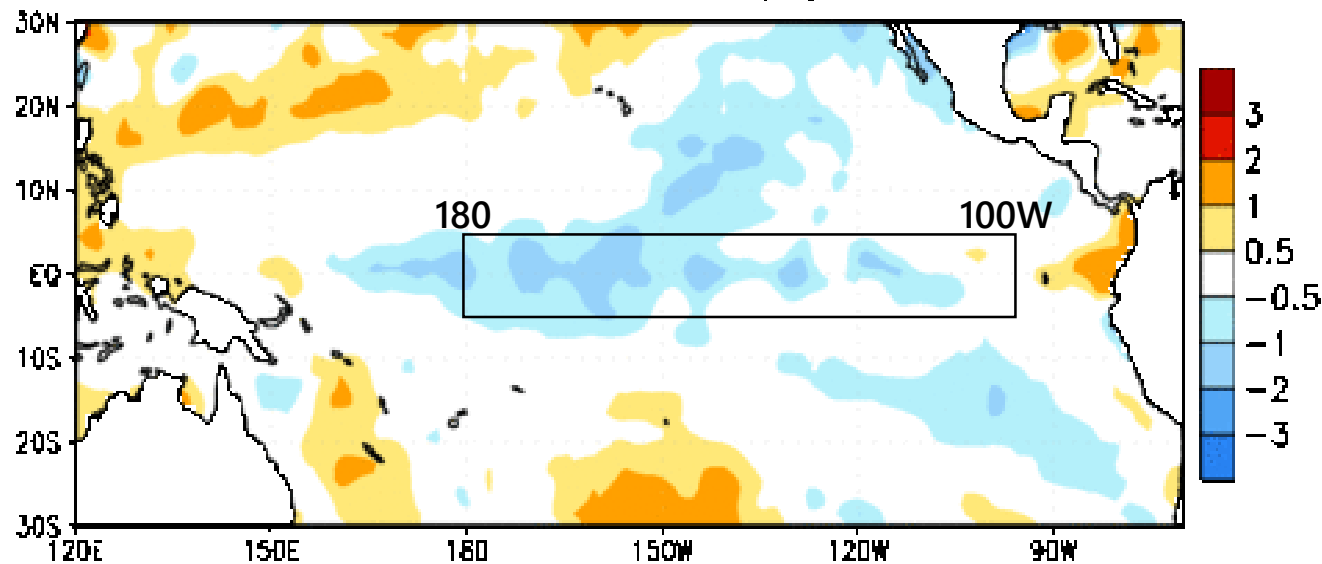


ENSO:

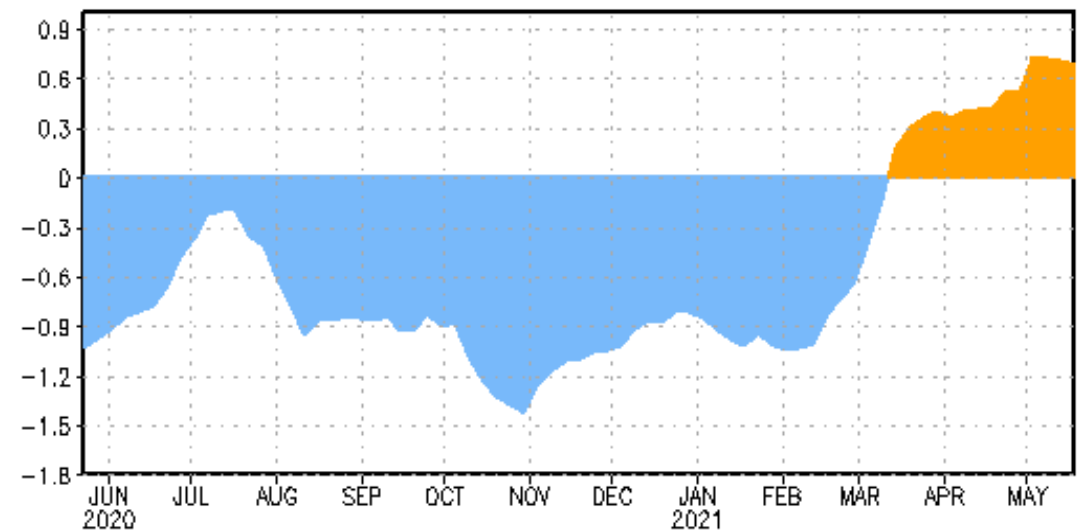
Final La Niña Advisory

- ENSO-neutral conditions are present.*
- Equatorial sea surface temperatures (SSTs) are near-to-below average over the east-central and eastern Pacific Ocean.

Week centered on 03 MAR 2021
SST Anomalies (°C)

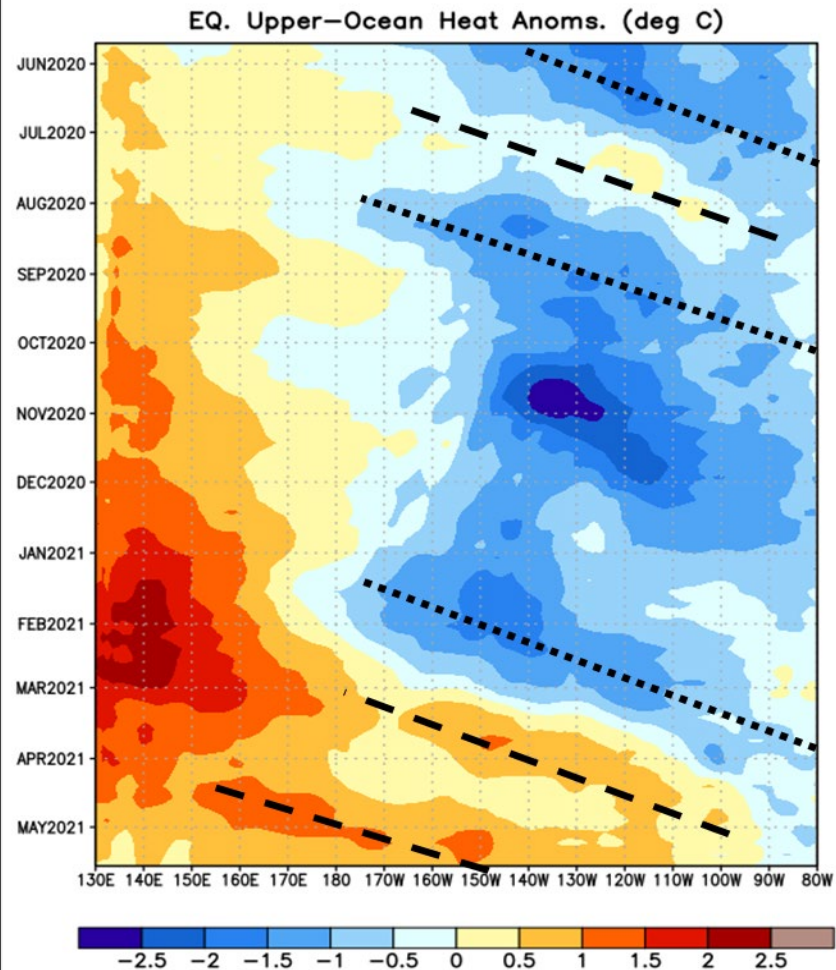


EQ. Upper-Ocean Heat Anoms. (deg C) for 180–100W

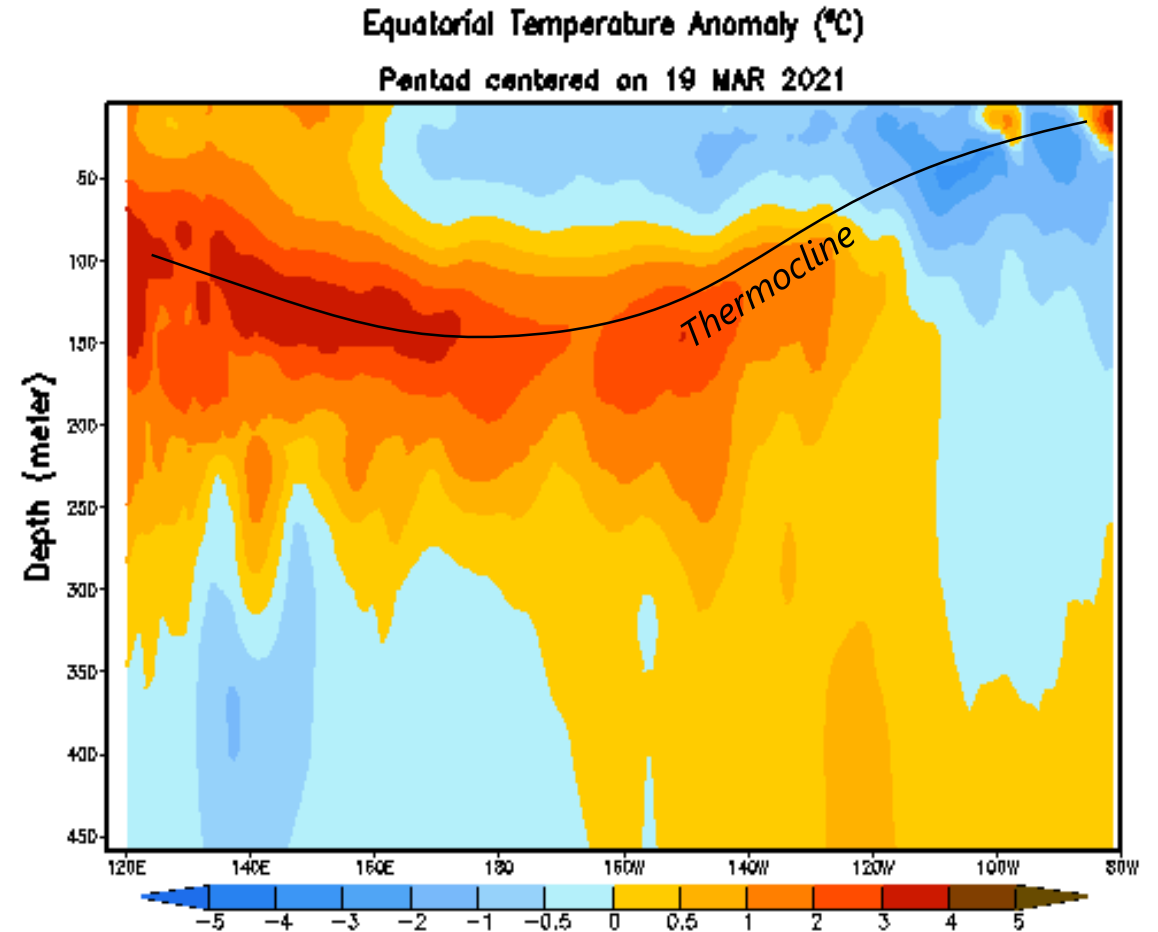


ENSO: Oceanic Kelvin Waves

Hovmöller: Heat Content



Equatorial Pacific Temp. Anomaly



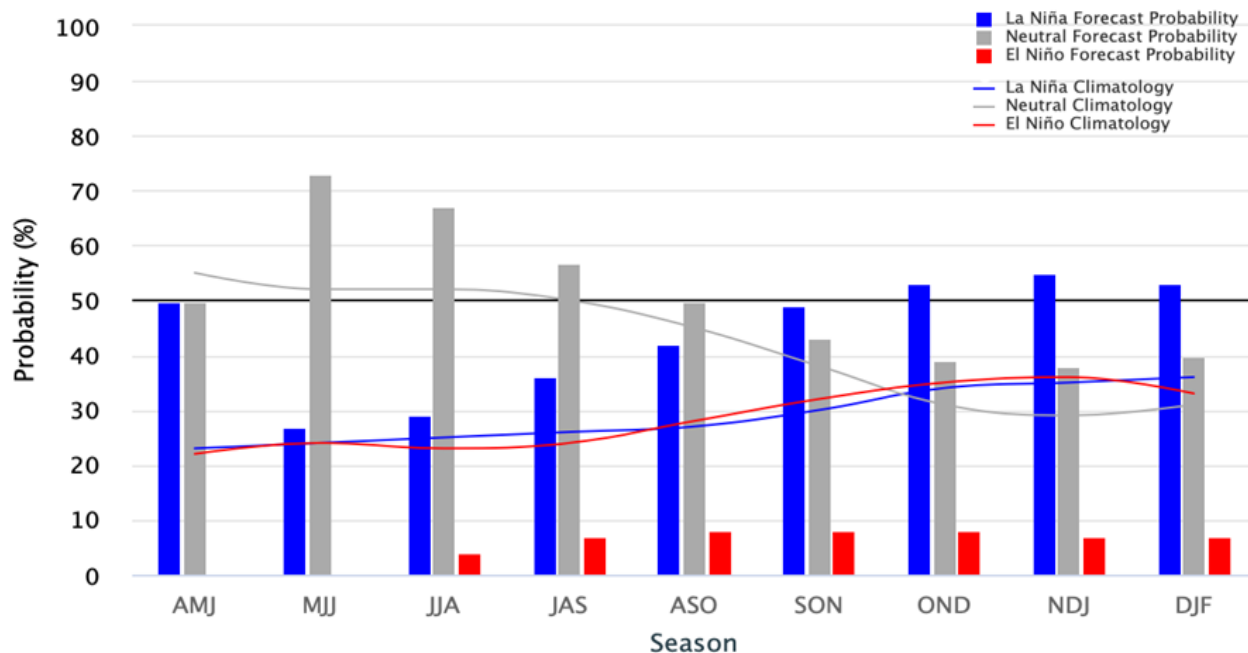
ENSO Outlook

ENSO-neutral likely to continue through the Northern Hemisphere summer (67% chance in June-August 2021).*

CPC/IRI Probabilistic Forecast

Early-May 2021 CPC/IRI Official Probabilistic ENSO Forecasts

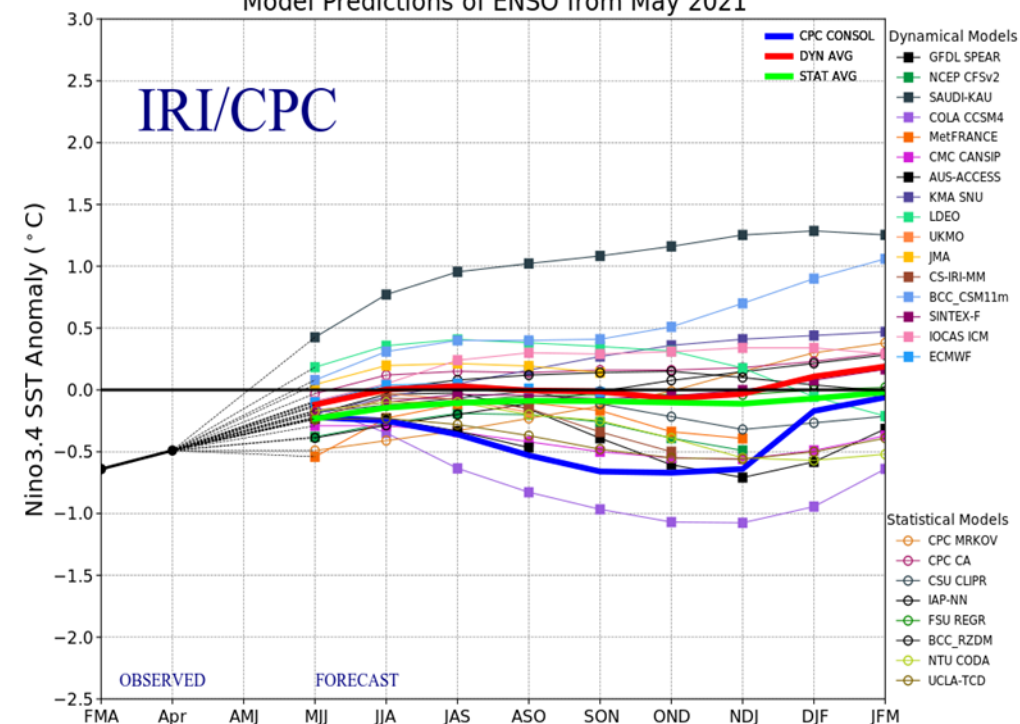
ENSO state based on NINO3.4 SST Anomaly
Neutral ENSO: -0.5°C to 0.5°C



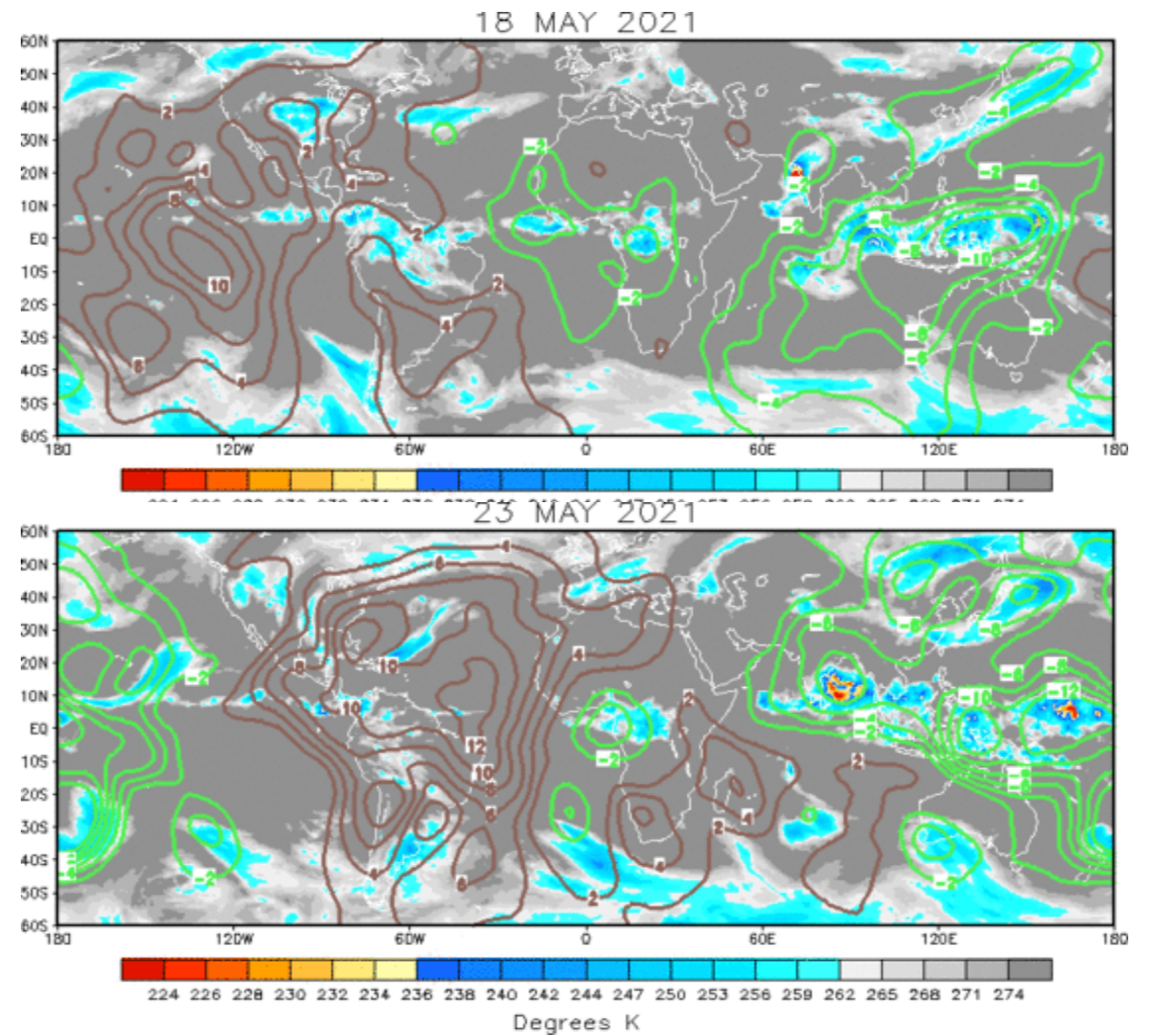
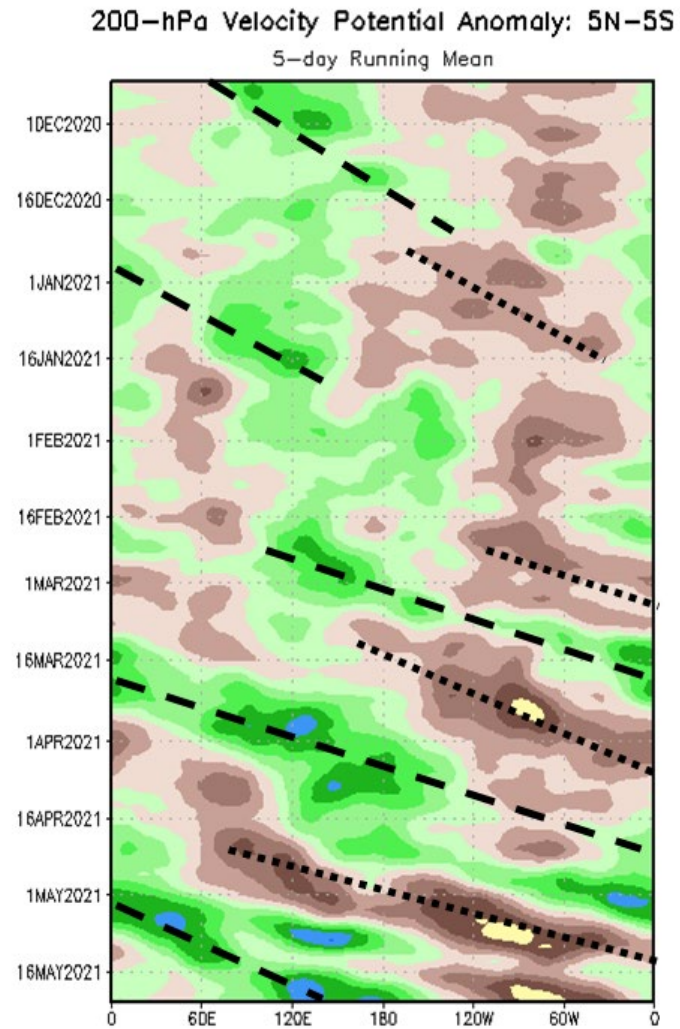
Source: CPC

IRI/CPC Dynamic Models

Model Predictions of ENSO from May 2021

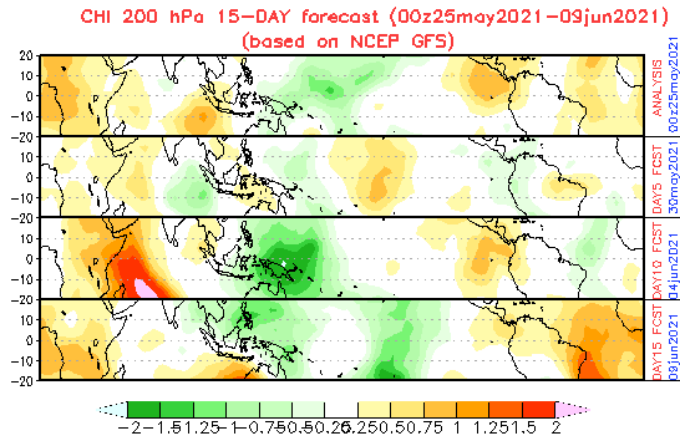


Madden-Julian Oscillation (MJO)

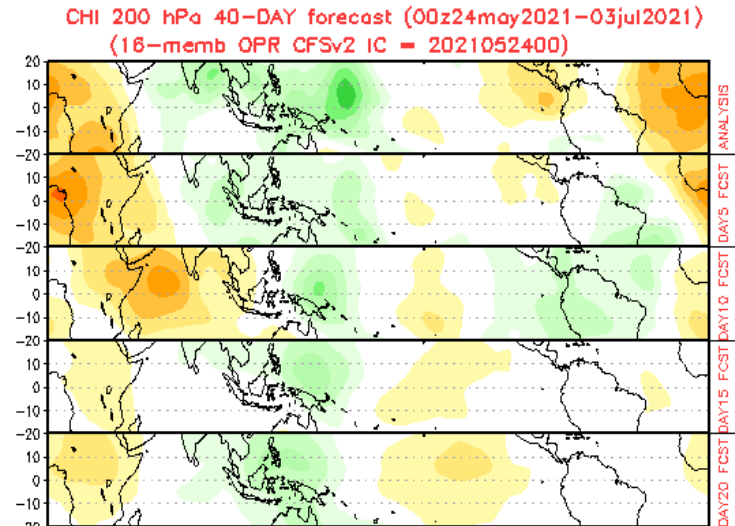


MJO Forecasts

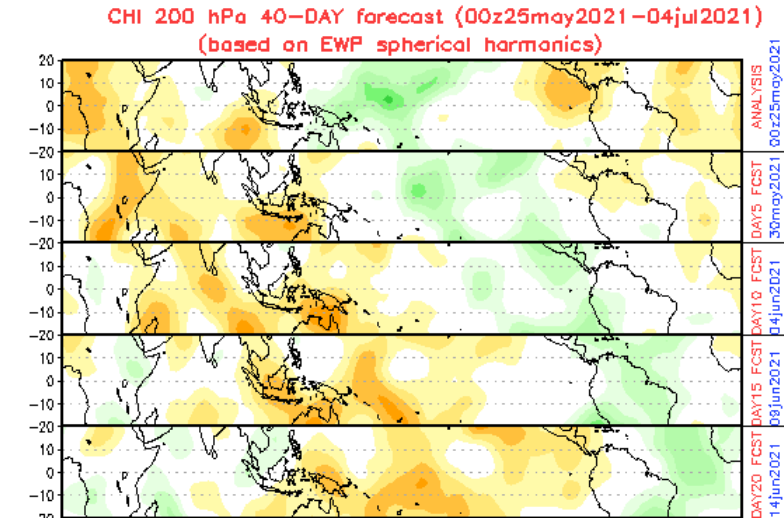
GFS



CFS



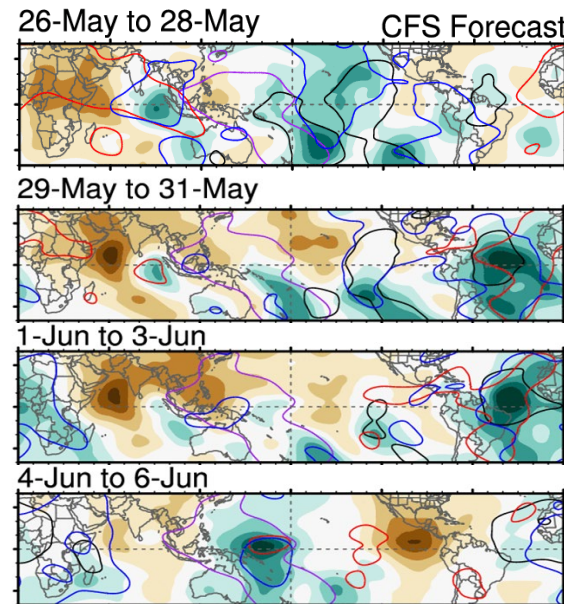
EWP



Not very organized

Upper divergent phase May 28 – June 6

Upper convergent mid June?



7-day CHI200 with CFS forecasts

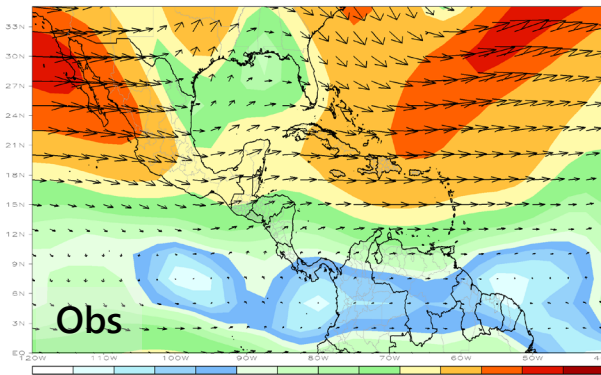
Wed 2020-09-16 1018 UTC

Contours at -2, -6 $\times 10^6 \text{ m}^2 \text{ s}^{-1}$
 MJO Kelvin x2
 Low ER
 Carl Schreck
 carl_schreck@ncsu.edu

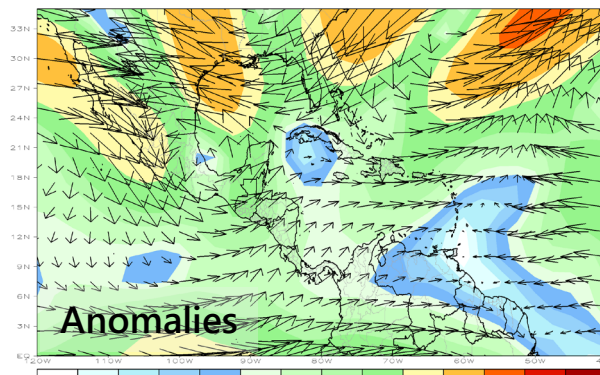
Last Week's Circulation and Rainfall – Tropical Americas

200
hPa

CDAS 200mb 7-Day Mean Vector Wind Total (m/s)
Period: 17May2021 – 23May2021

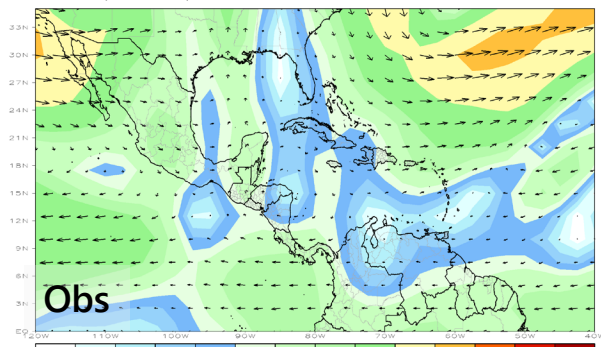


CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)
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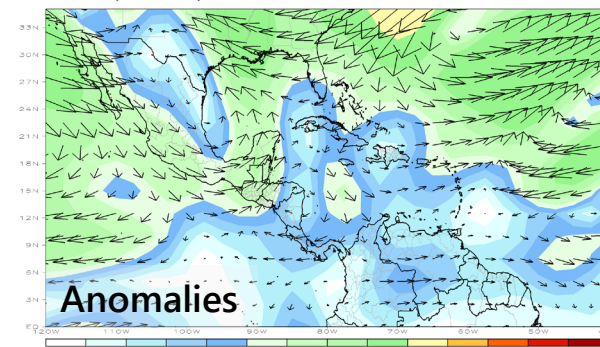


500
hPa

CDAS 500mb 7-Day Mean Vector Wind Total (m/s)
Period: 17May2021 – 23May2021

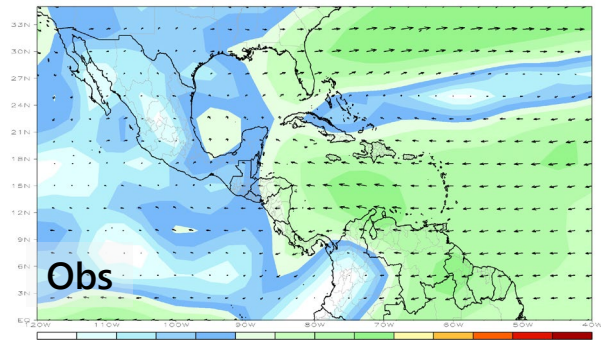


CDAS 500mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 17May2021 – 23May2021

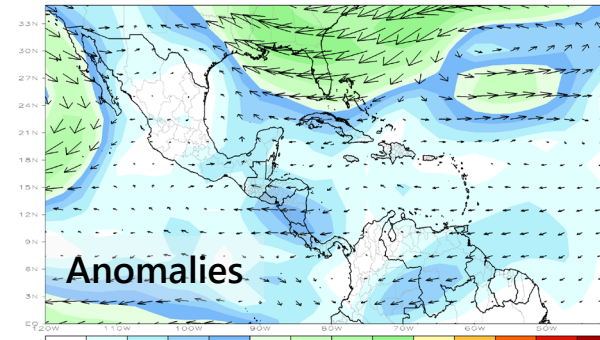


850
hPa

CDAS 850mb 7-Day Mean Vector Wind Total (m/s)
Period: 19Apr2021 – 25Apr2021

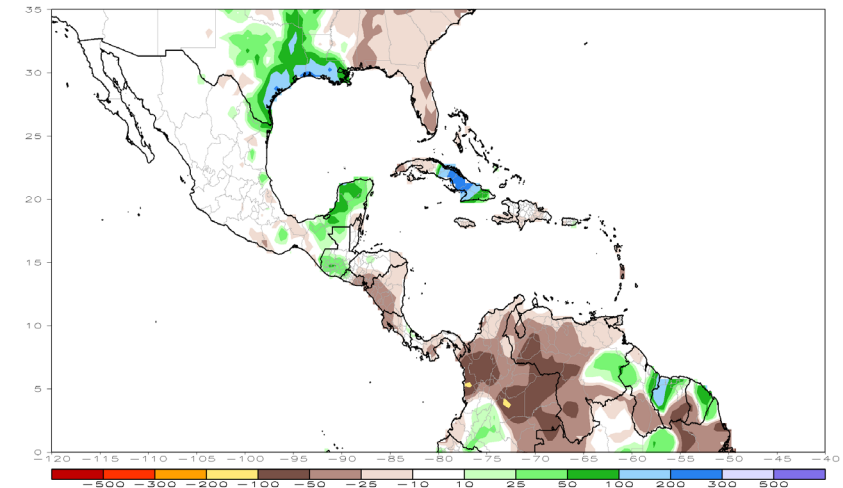


CDAS 850mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 17May2021 – 23May2021

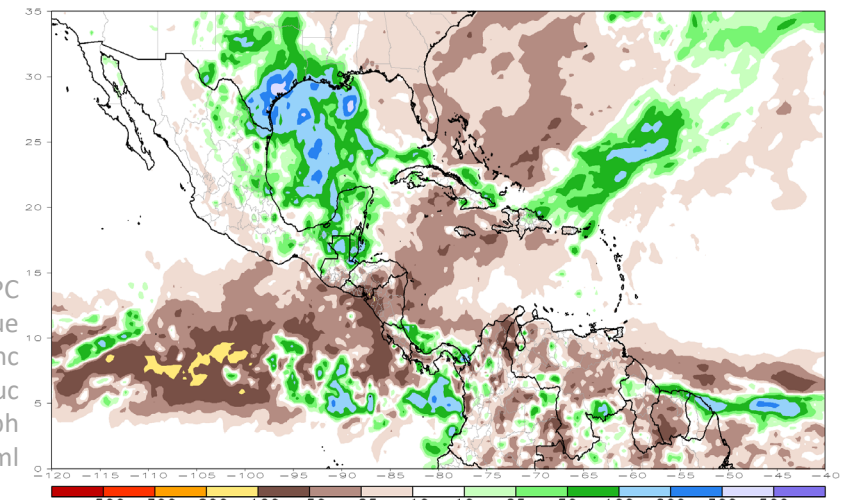


Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 18May2021 – 24May2021



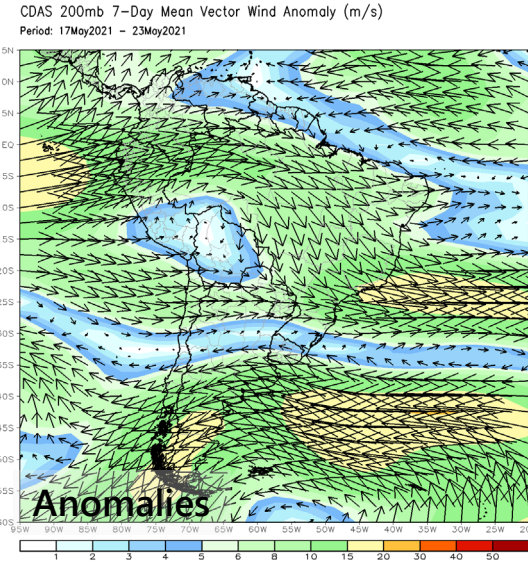
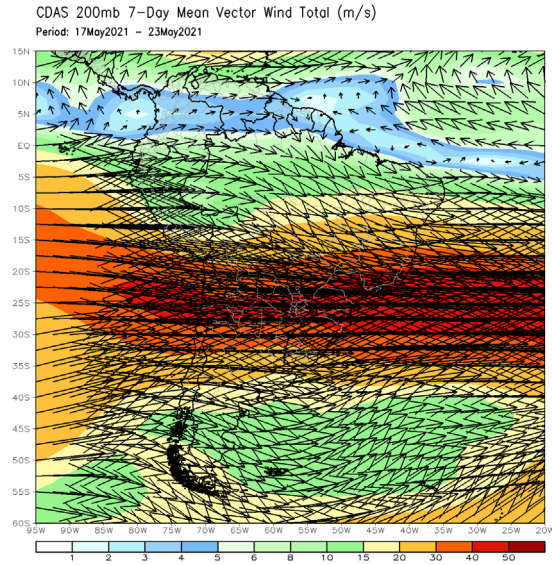
CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 18May2021 – 24May2021



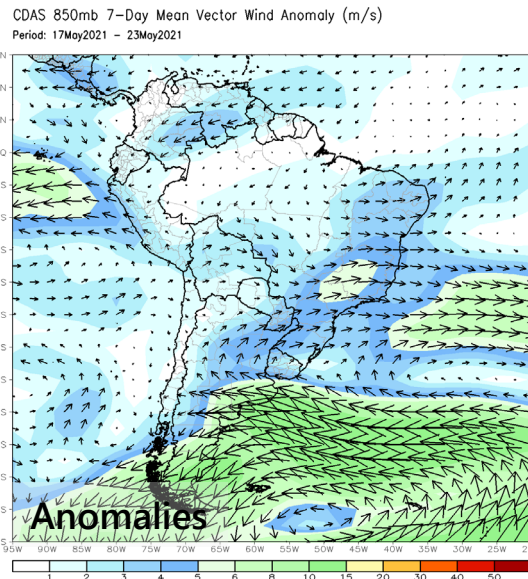
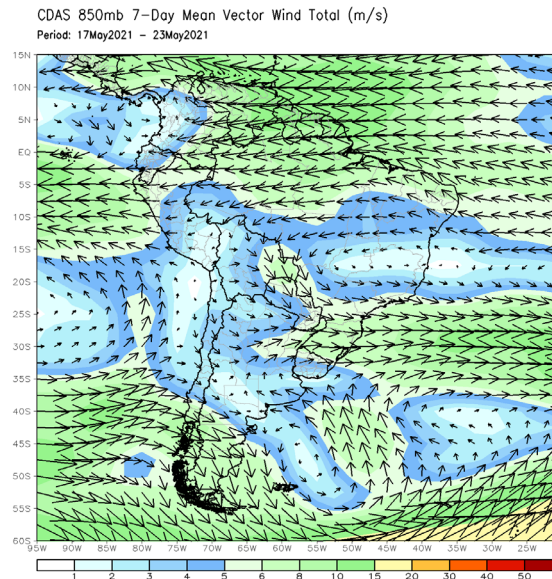
CMORPH: CPC
Morphing Technique
https://www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.html

Last Week's Circulation and Rainfall – South America

200
hPa

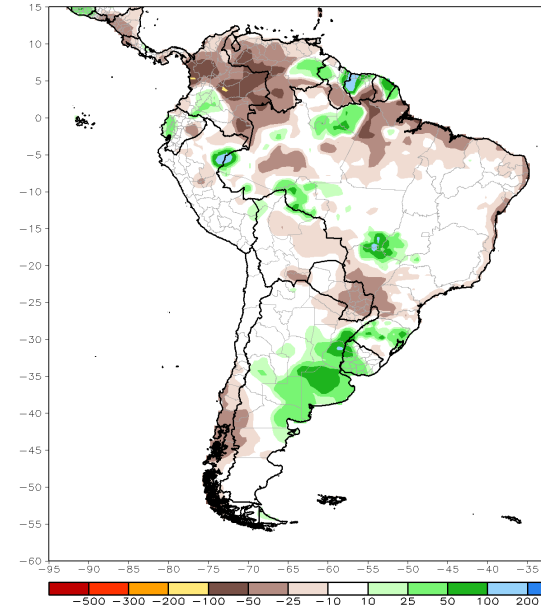


850
hPa

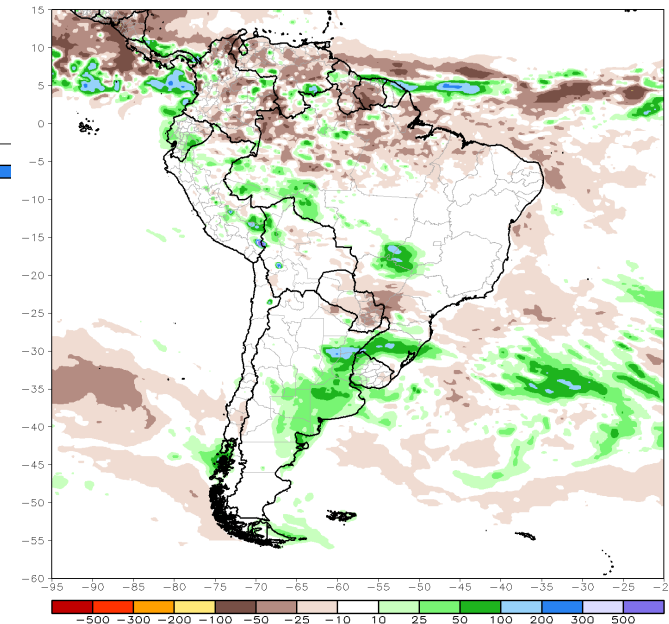


Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 18May2021 – 24May2021



CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 18May2021 – 24May2021



CMORPH: CPC Morphing Technique
https://www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.html



¡Gracias!

Thank you!