

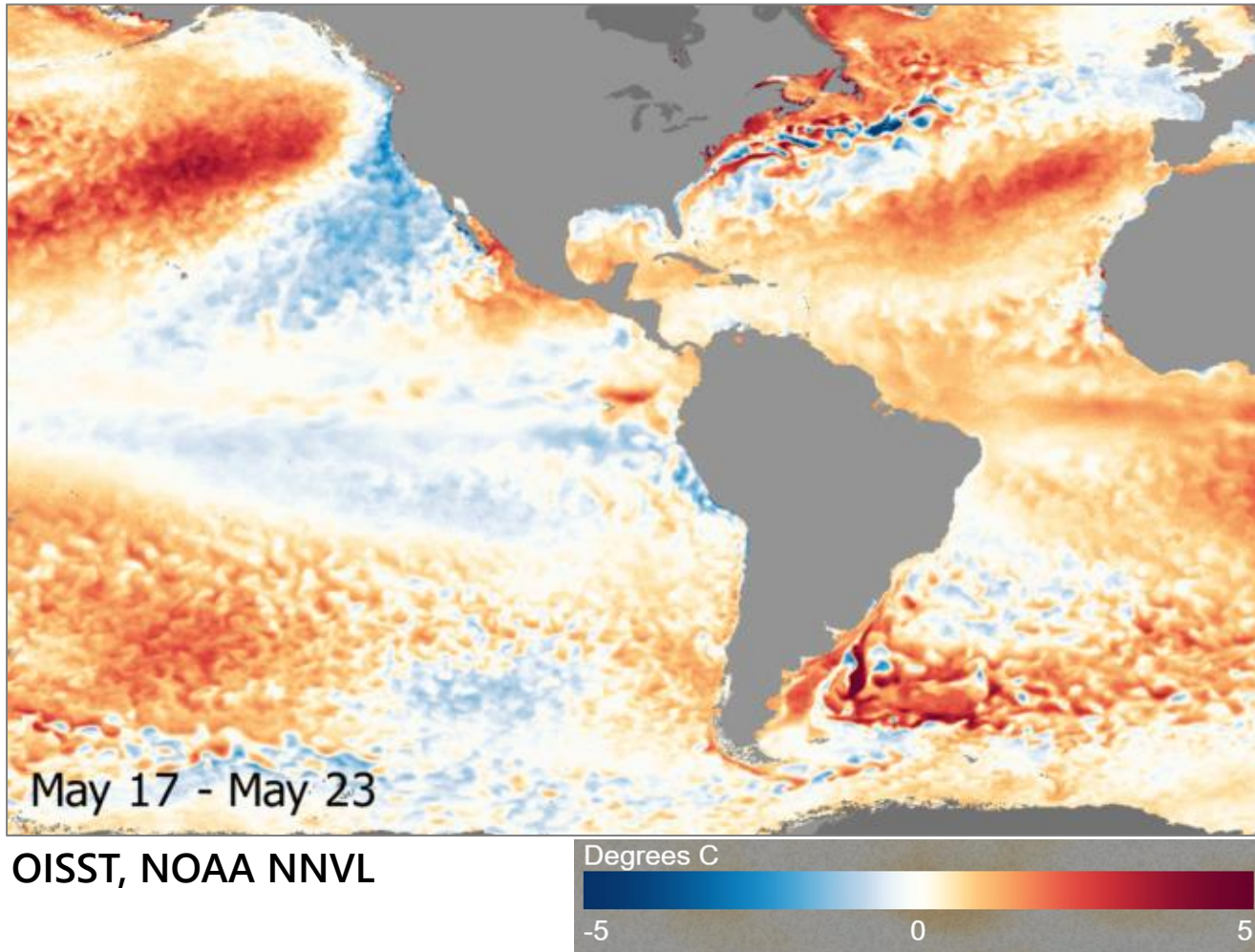


Monthly Regional Focus Group Session

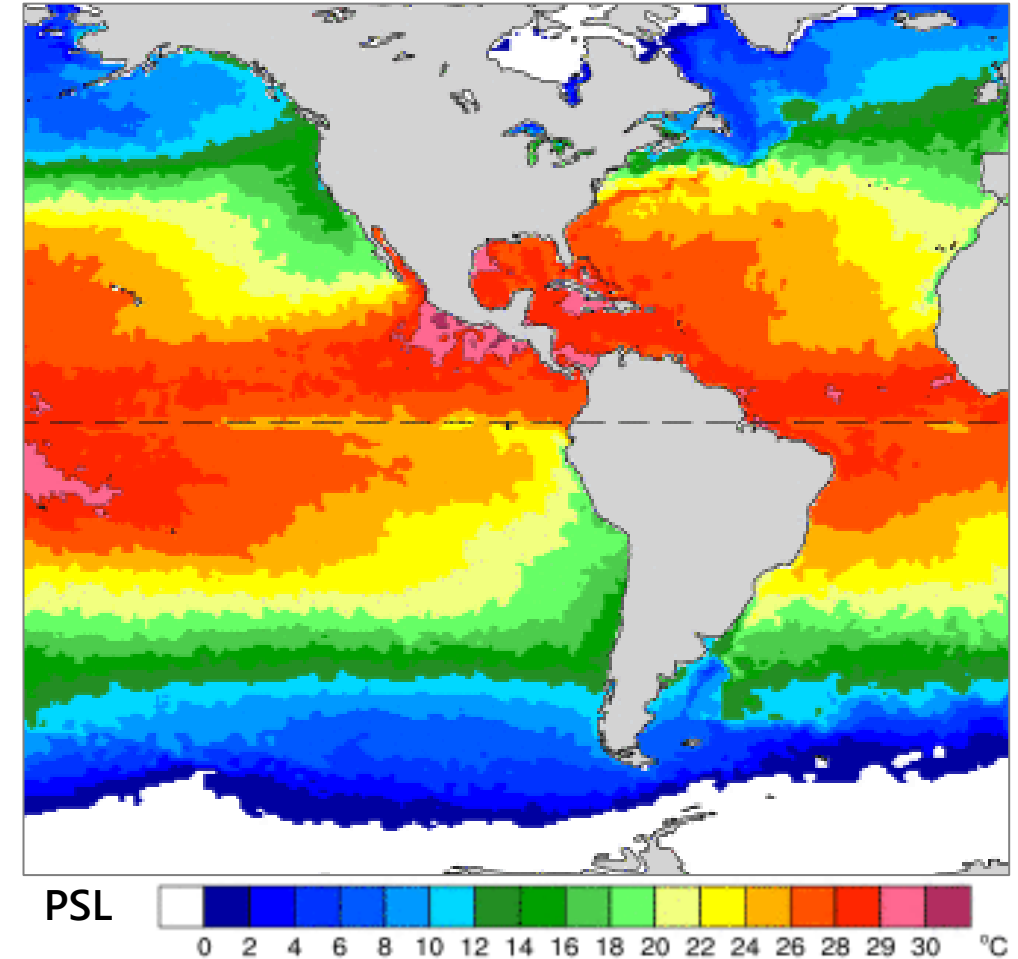
Wednesday 23 June 2021

Sea Surface Temperatures

Anomaly Evolution May 16 – June 19

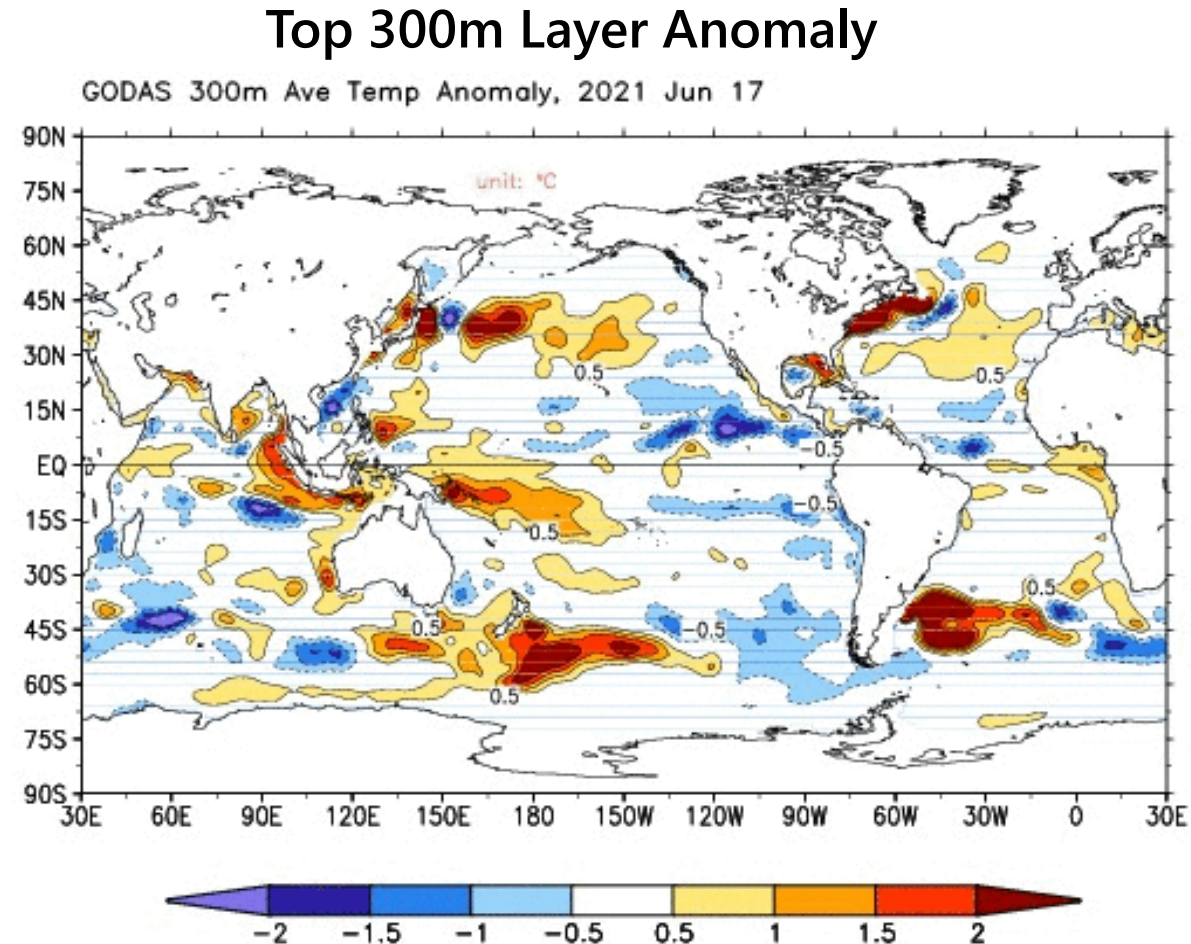
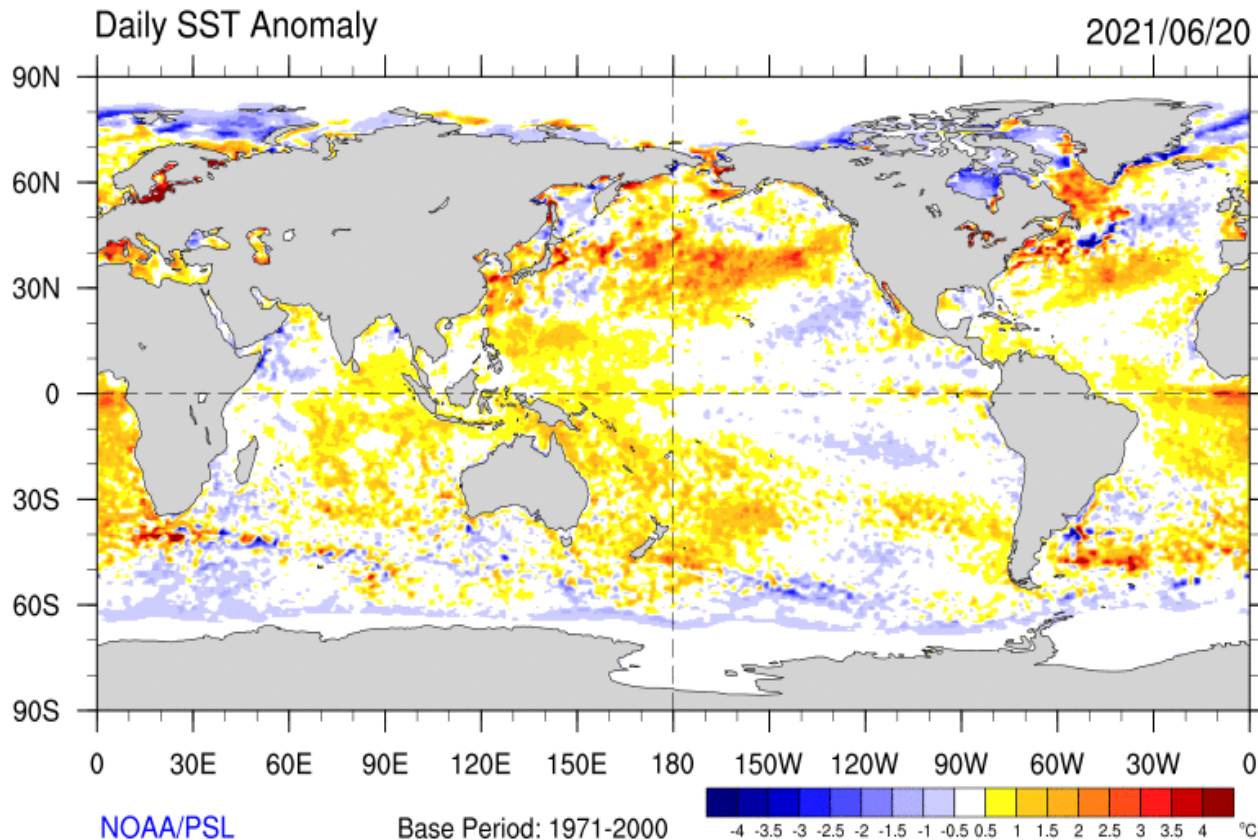


Daily SST June 20



Are the anomalies deep?

Deep anomalies tend to last longer, becoming useful for subseasonal forecasting.

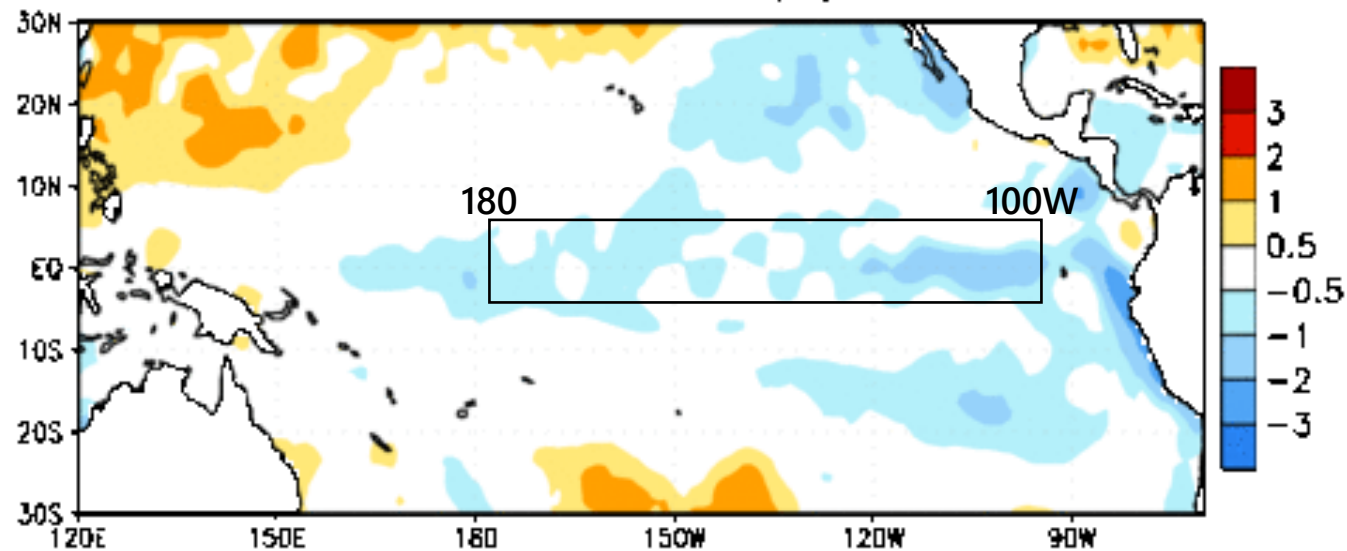


Source: CPC GODAS, <https://www.cpc.ncep.noaa.gov/products/GODAS/>

ENSO: Neutral

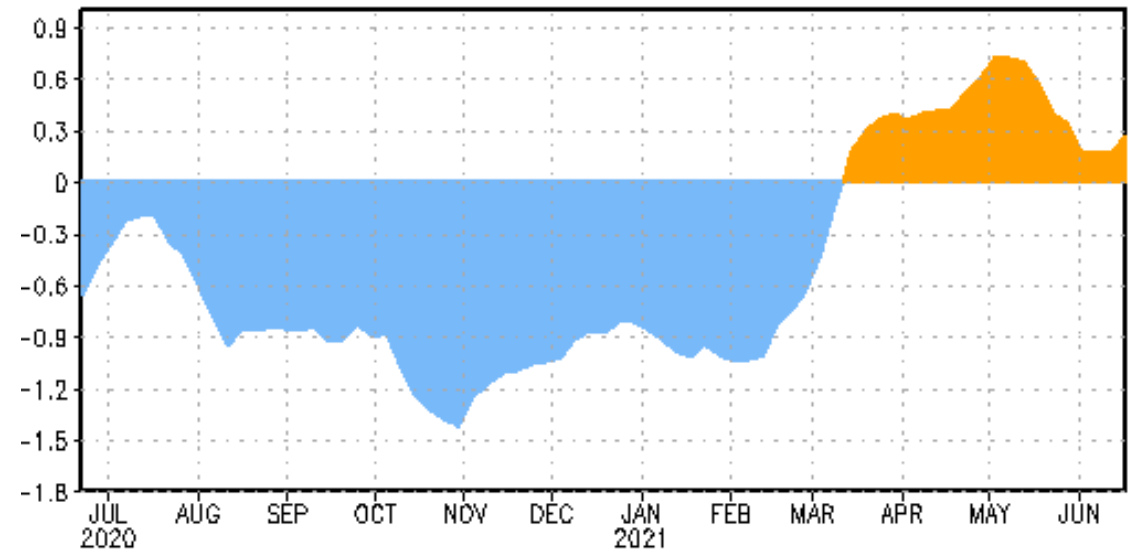
- ENSO-neutral conditions are present.*
- Equatorial sea surface temperatures (SSTs) are near average across most of the Pacific Ocean.

Week centered on 31 MAR 2021
SST Anomalies (°C)



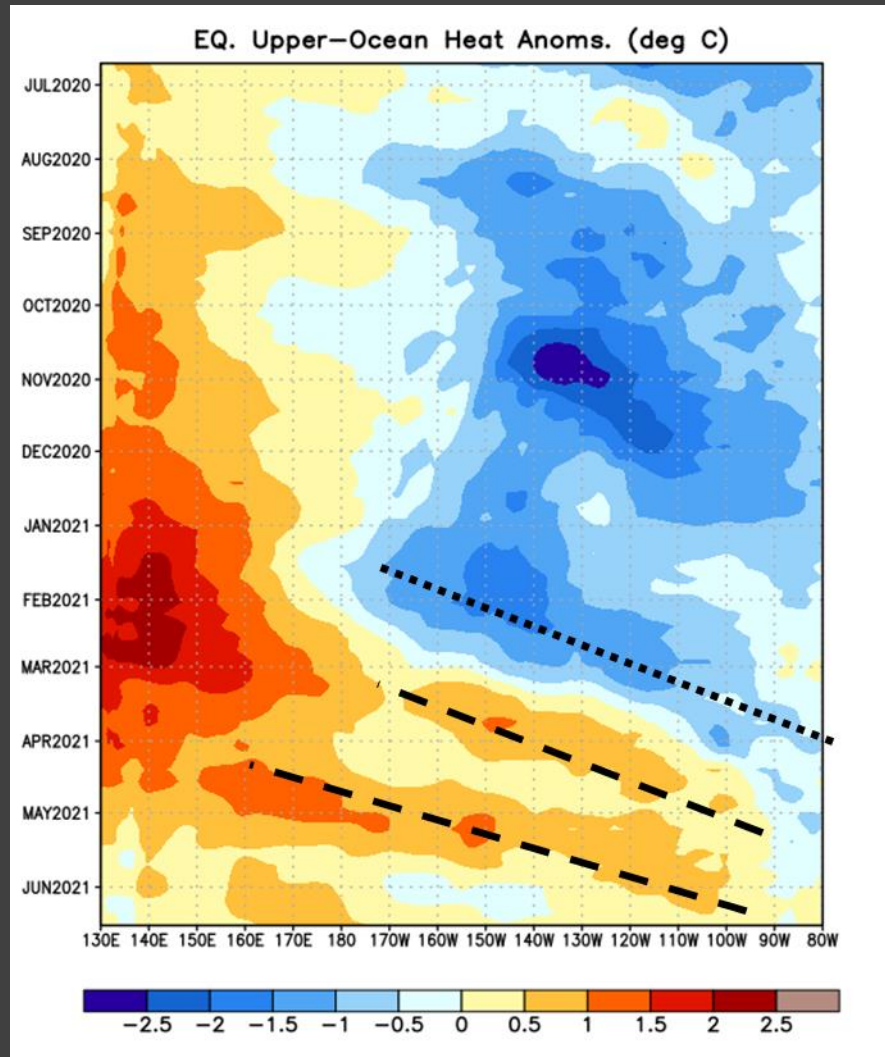
Source: CPC

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

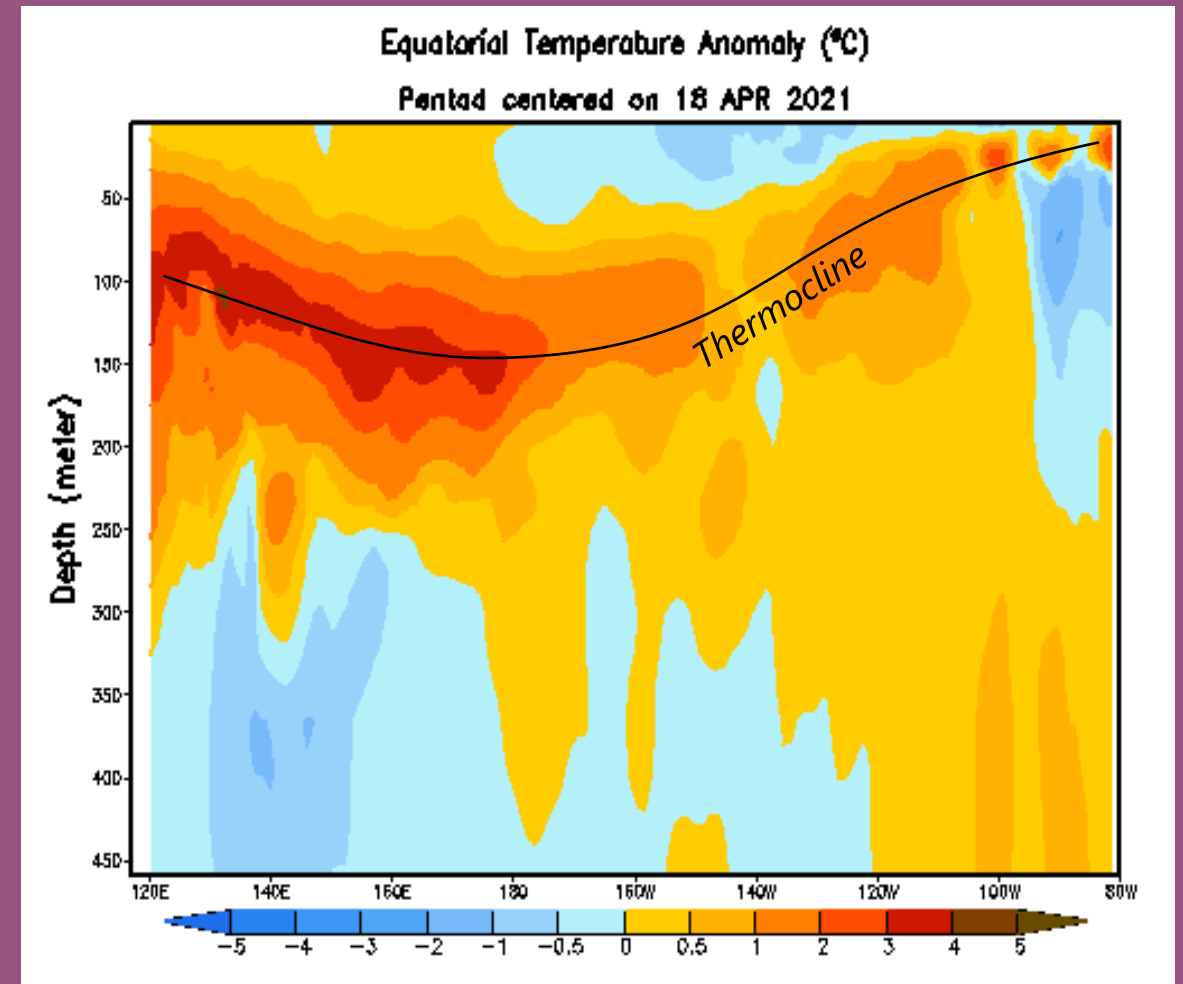


ENSO: Oceanic Kelvin Waves

Hovmöller: Heat Content



Equatorial Pacific Temp. Anomaly



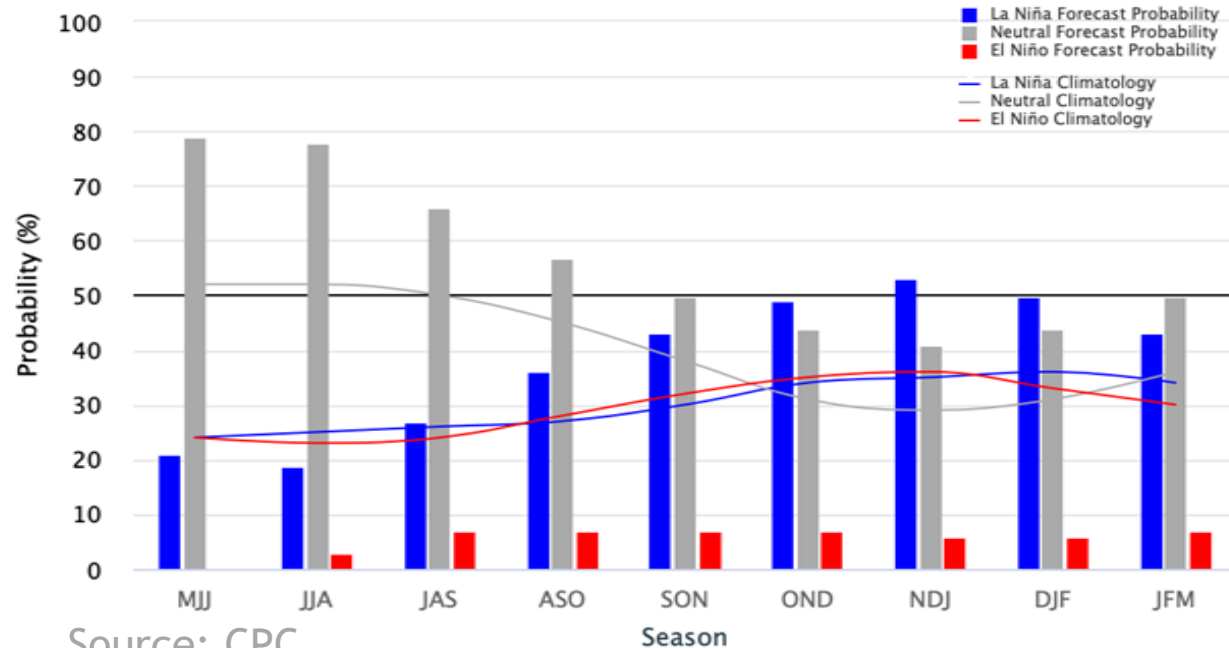
ENSO Outlook

ENSO-neutral is favored through the Northern Hemisphere summer (78% chance for the June-August season) and fall (50% chance for the September-November season).*

CPC/IRI Probabilistic Forecast

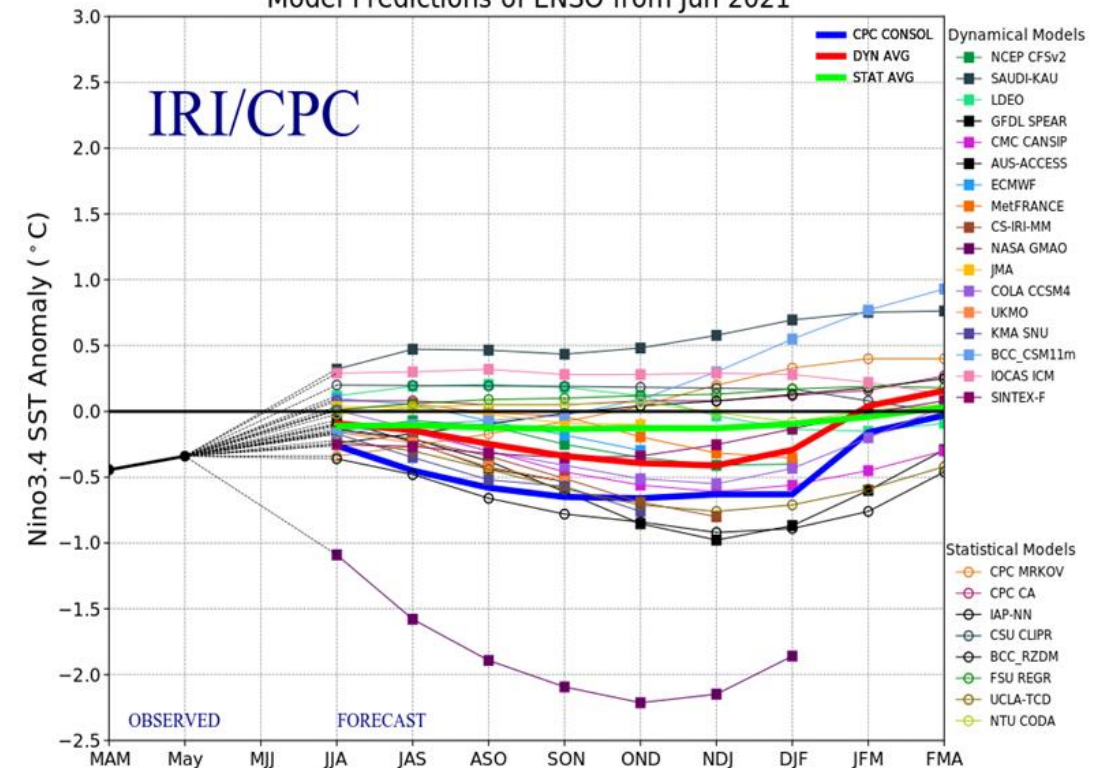
Early-June 2021 CPC/IRI Official Probabilistic ENSO Forecasts

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

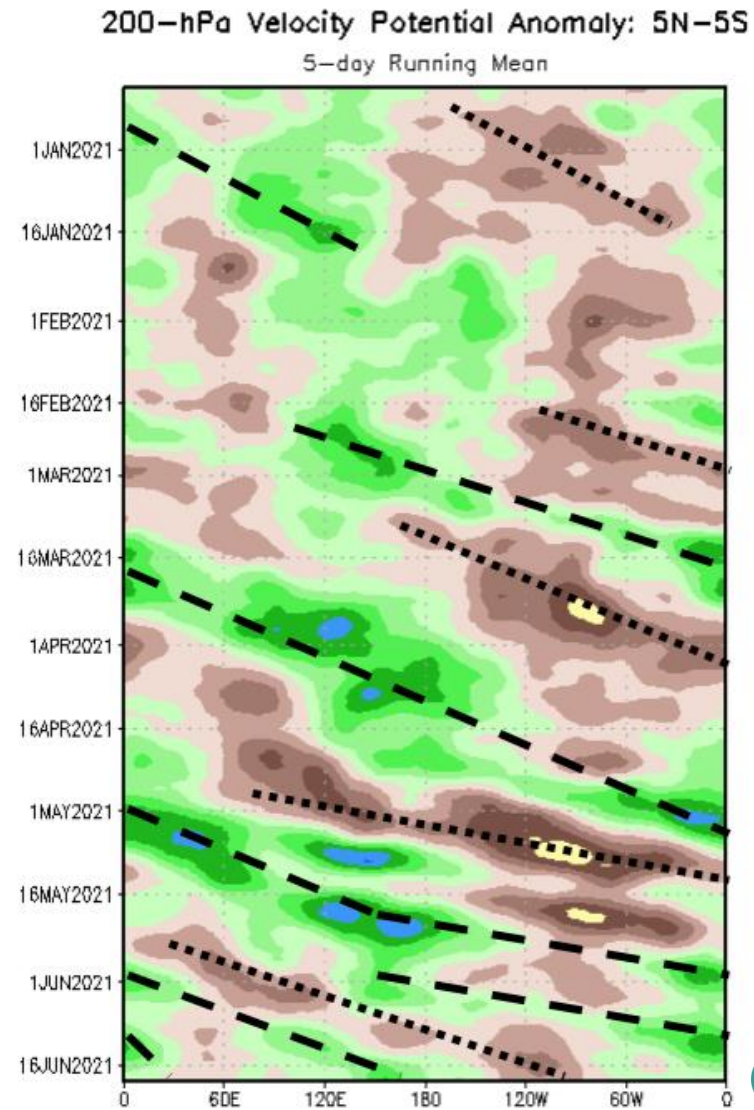


IRI/CPC Dynamic Models

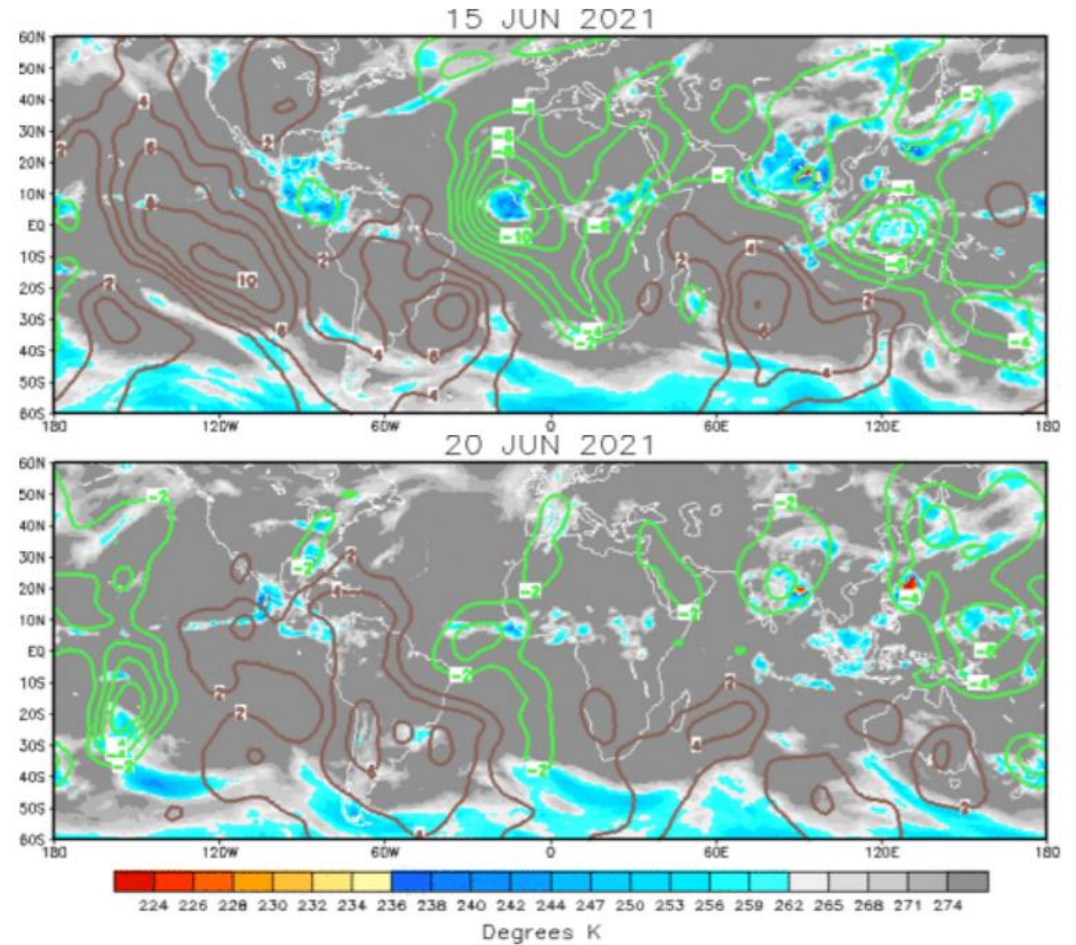
Model Predictions of ENSO from Jun 2021



Madden-Julian Oscillation (MJO)

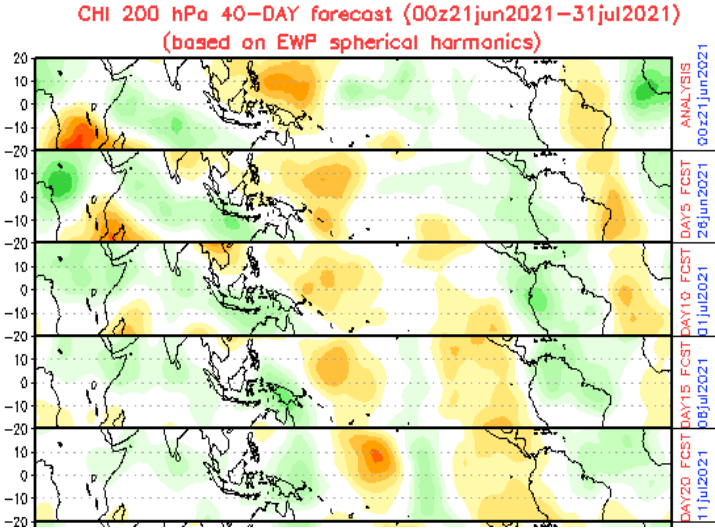


Source: CPC

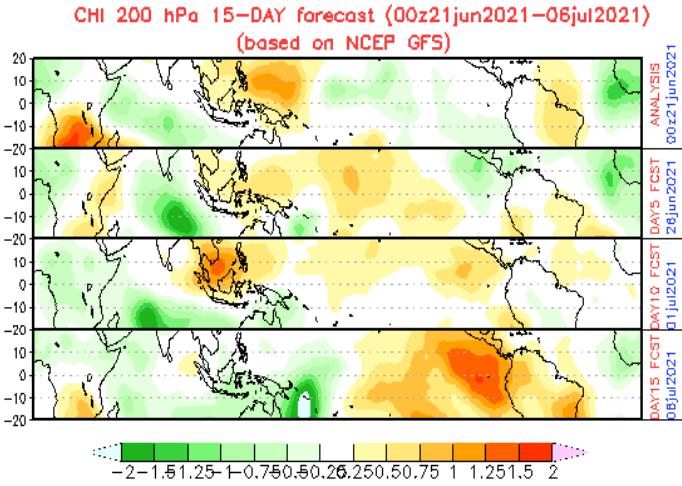


MJO Forecasts

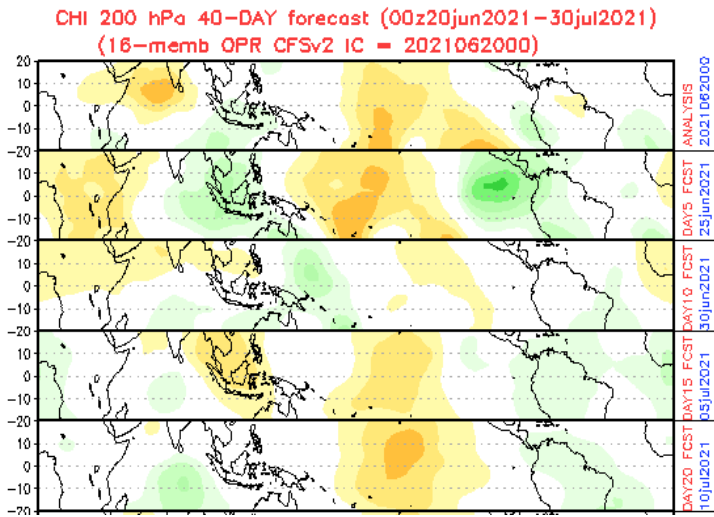
EWP



GFS

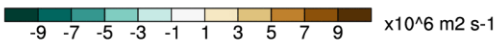
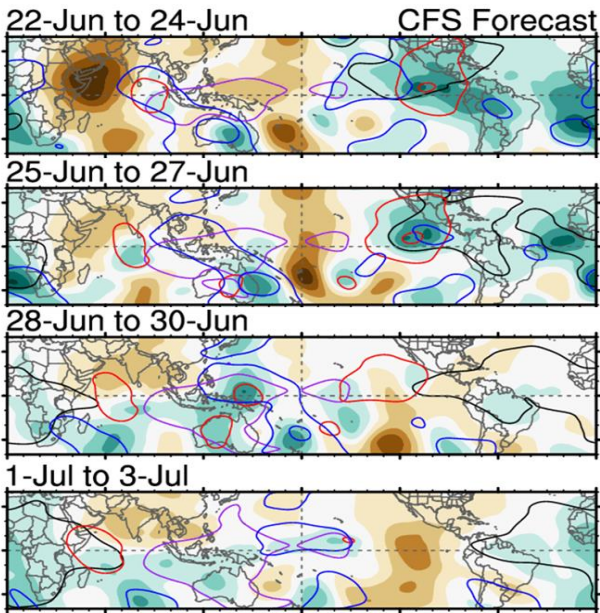


CFS

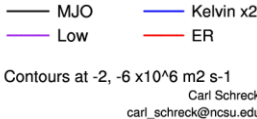


Upper divergent pulse through
the end of June

Upper convergent: early July



7-day CHI200 with CFS forecasts

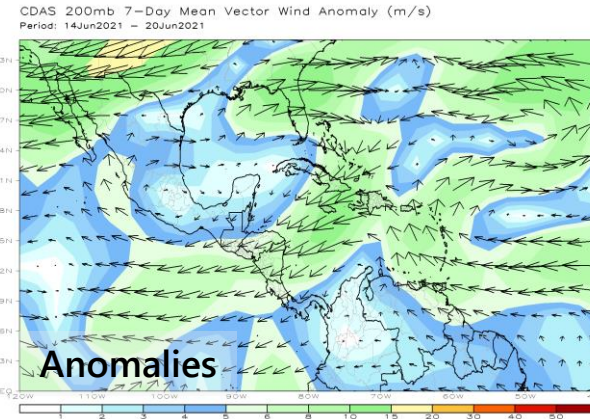
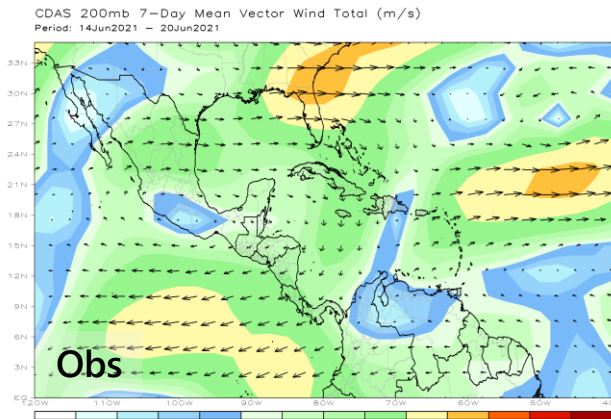


Contours at -2, -6 x10^6 m2 s^-1
Carl Schreck
carl_schreck@ncsu.edu

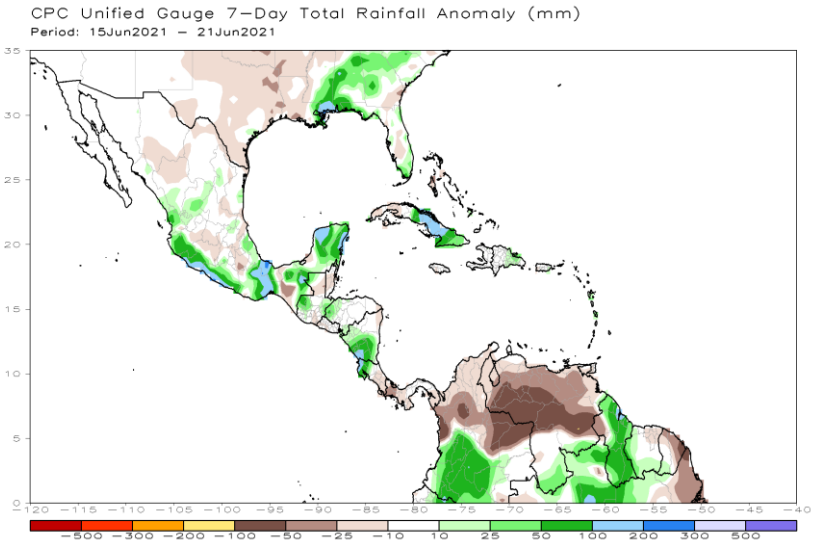
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Last Week's Circulation and Rainfall – Tropical Americas

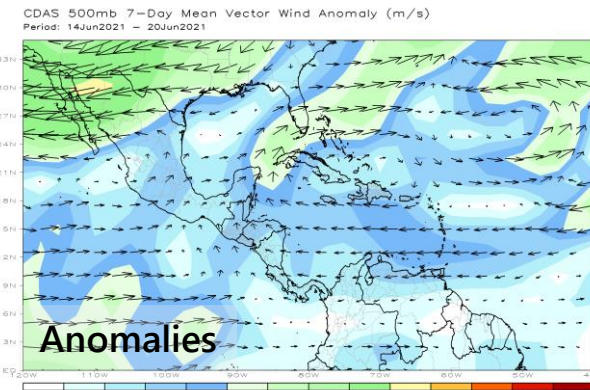
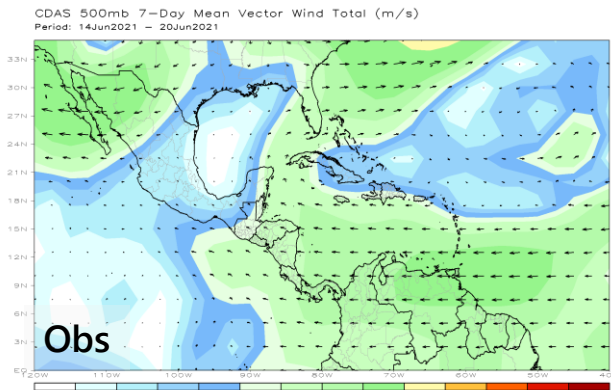
200
hPa



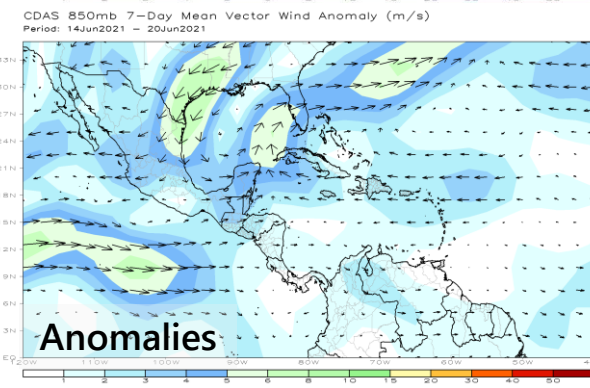
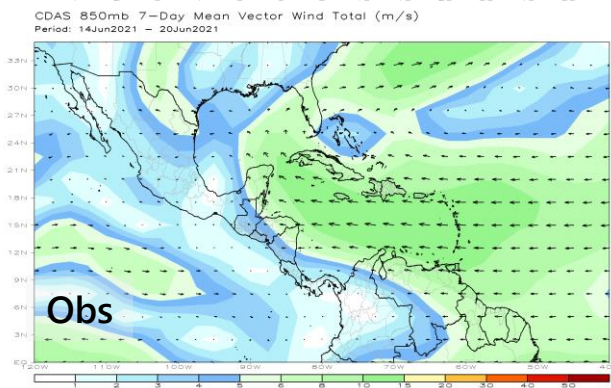
Rainfall



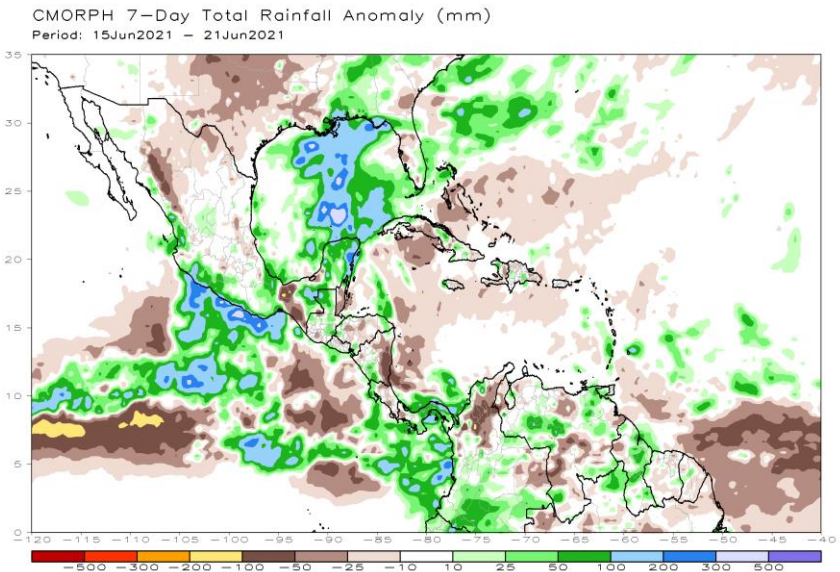
500
hPa



850
hPa

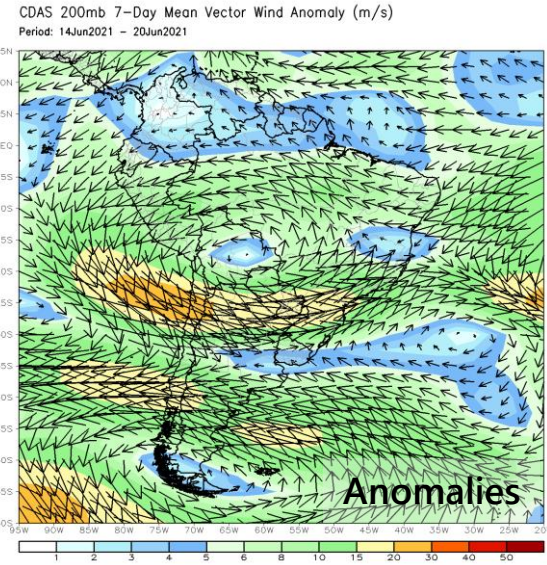
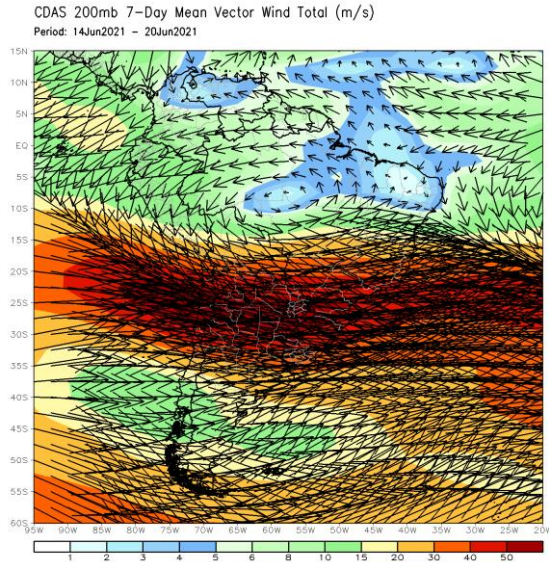


CMORPH: CPC
Morphing Technique
https://www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.html

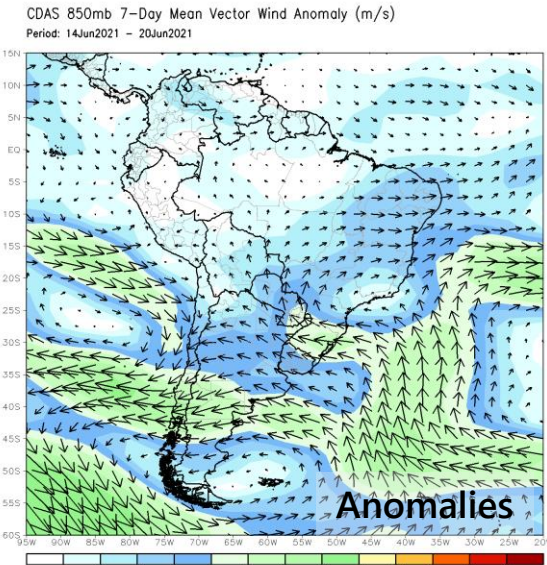
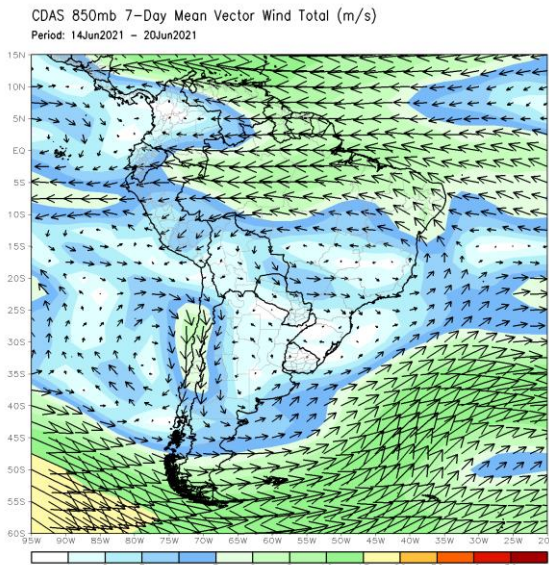


Last Week's Circulation and Rainfall – South America

200
hPa

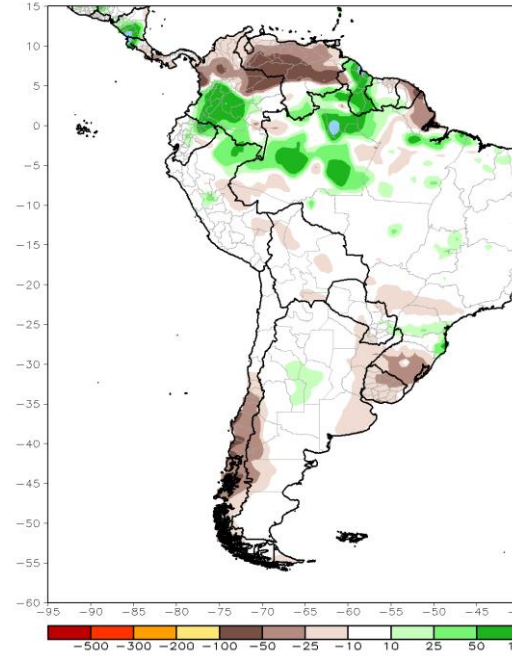


850
hPa

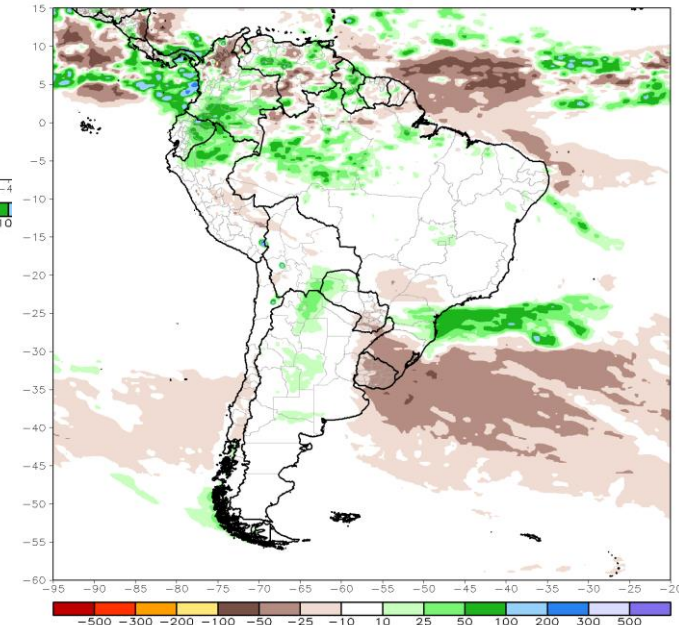


Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 15Jun2021 – 21Jun2021

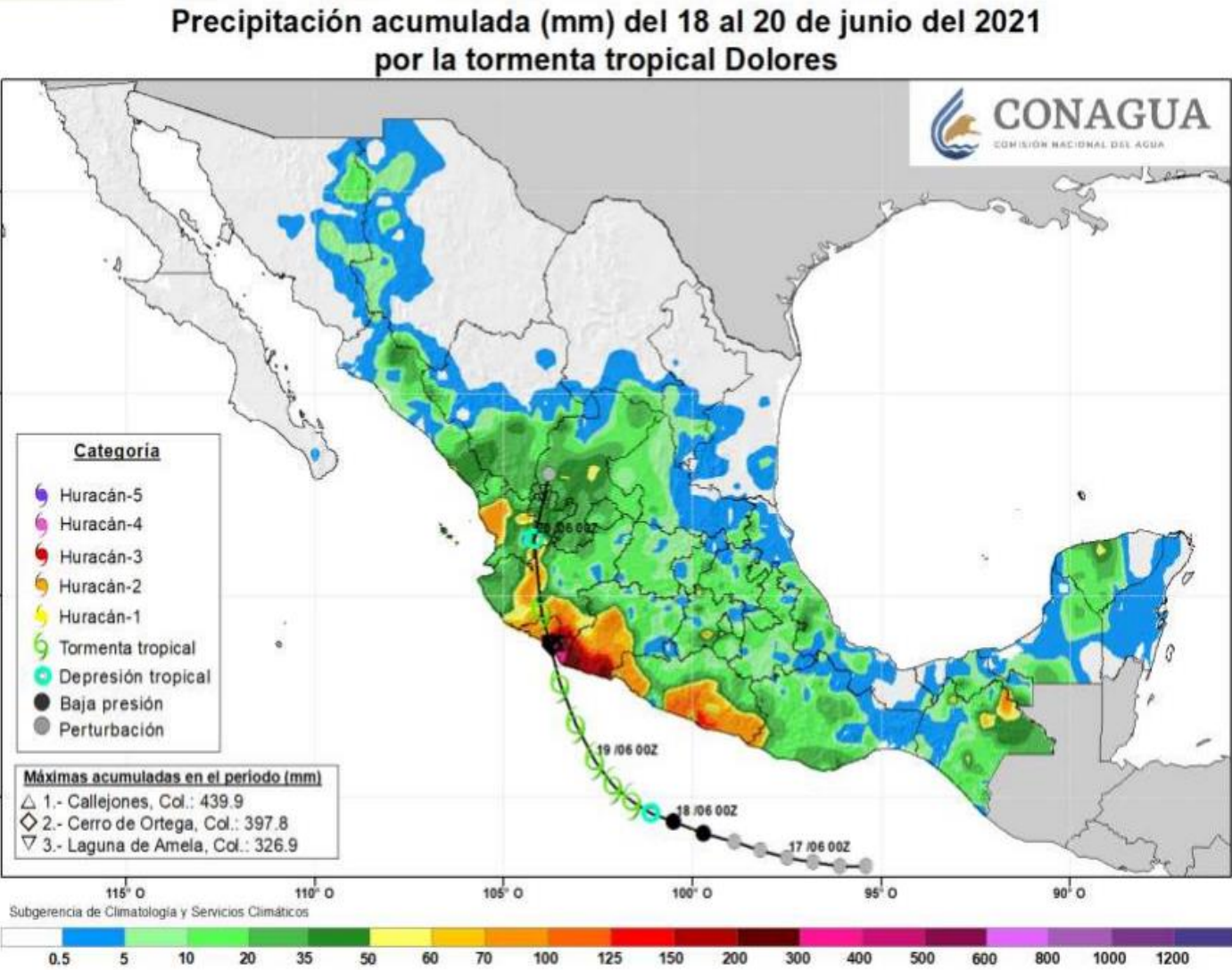
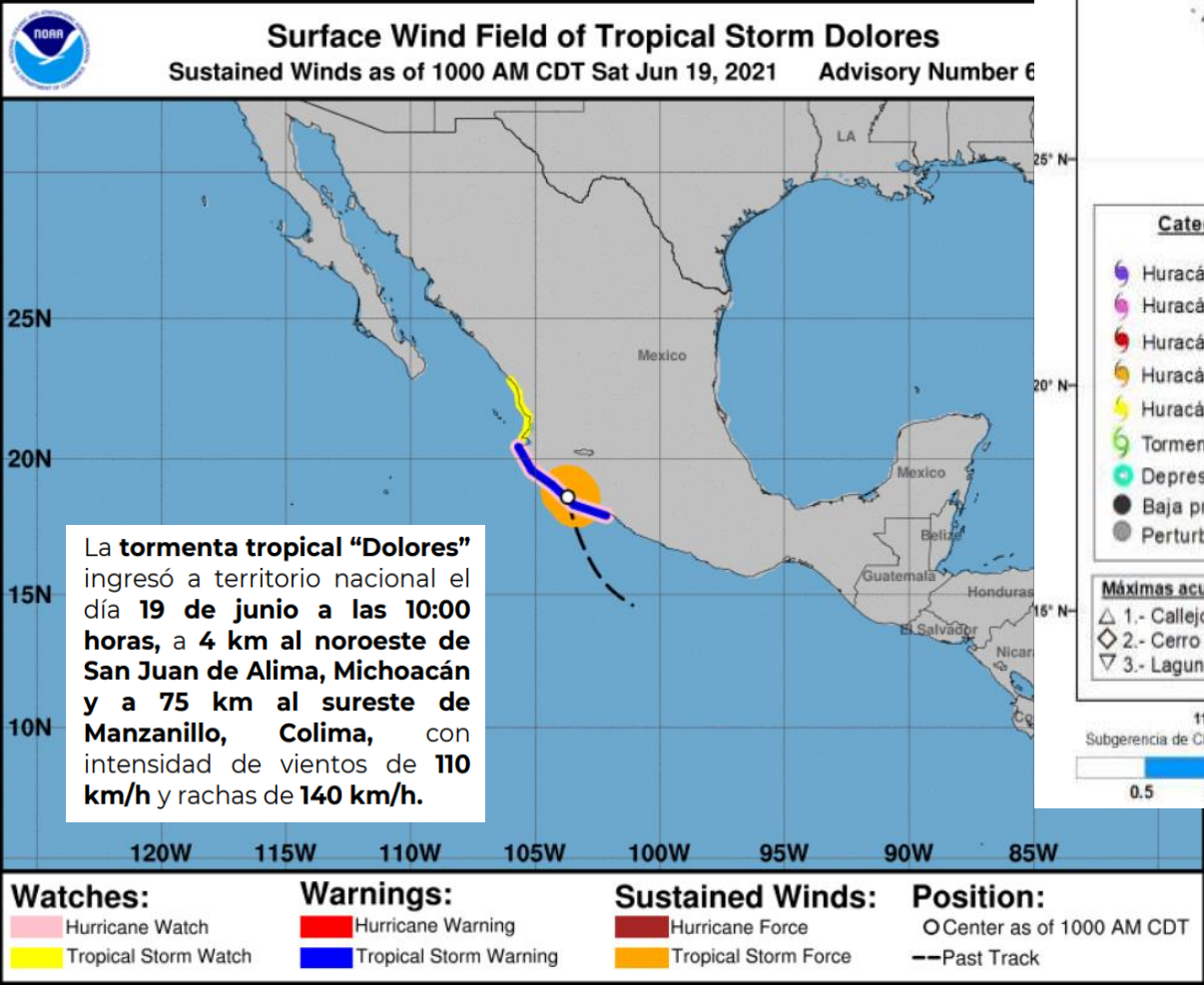


CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 15Jun2021 – 21Jun2021



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

Tropical Storm Dolores



¡Gracias!

Thank you!