

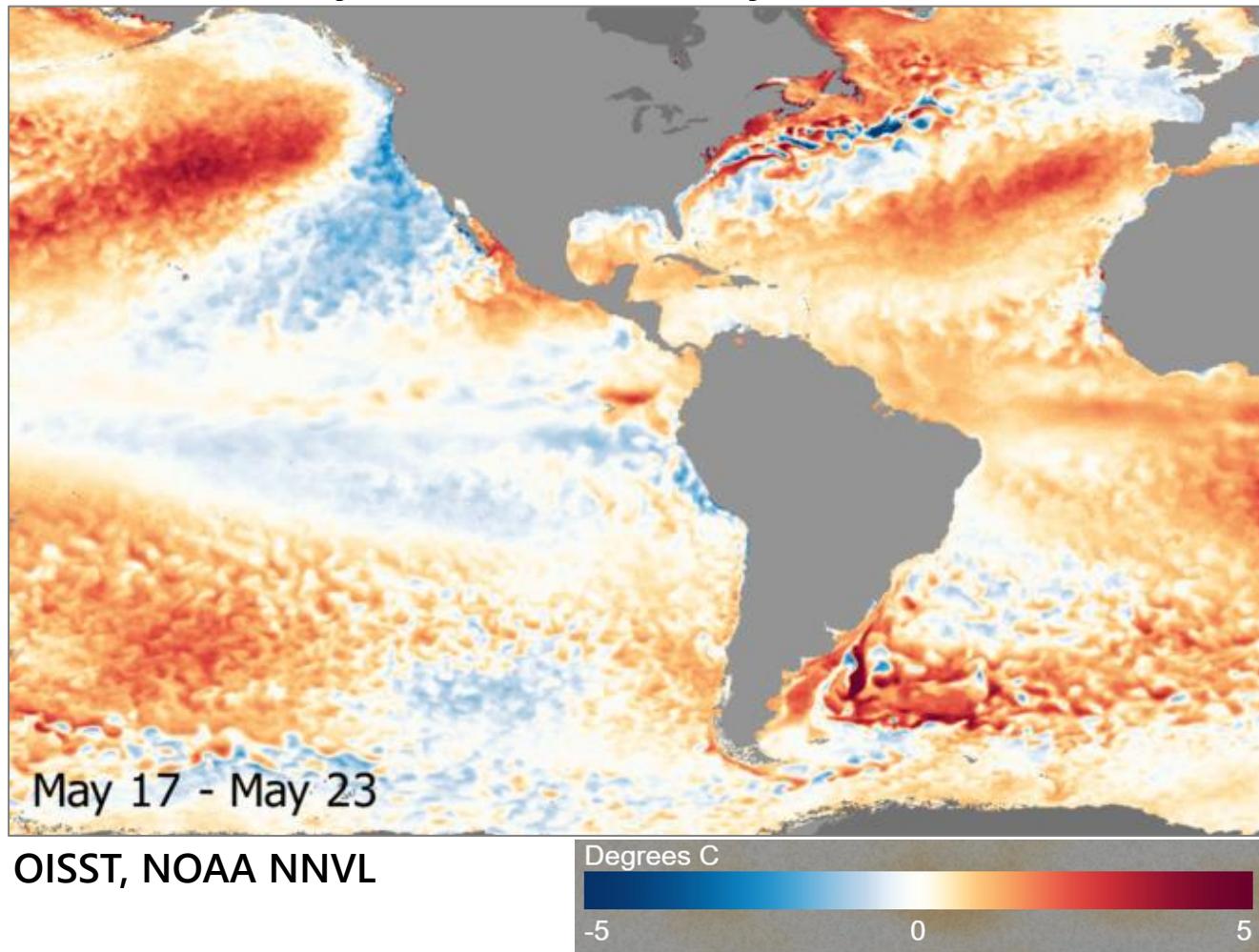


Monthly Regional Focus Group Session

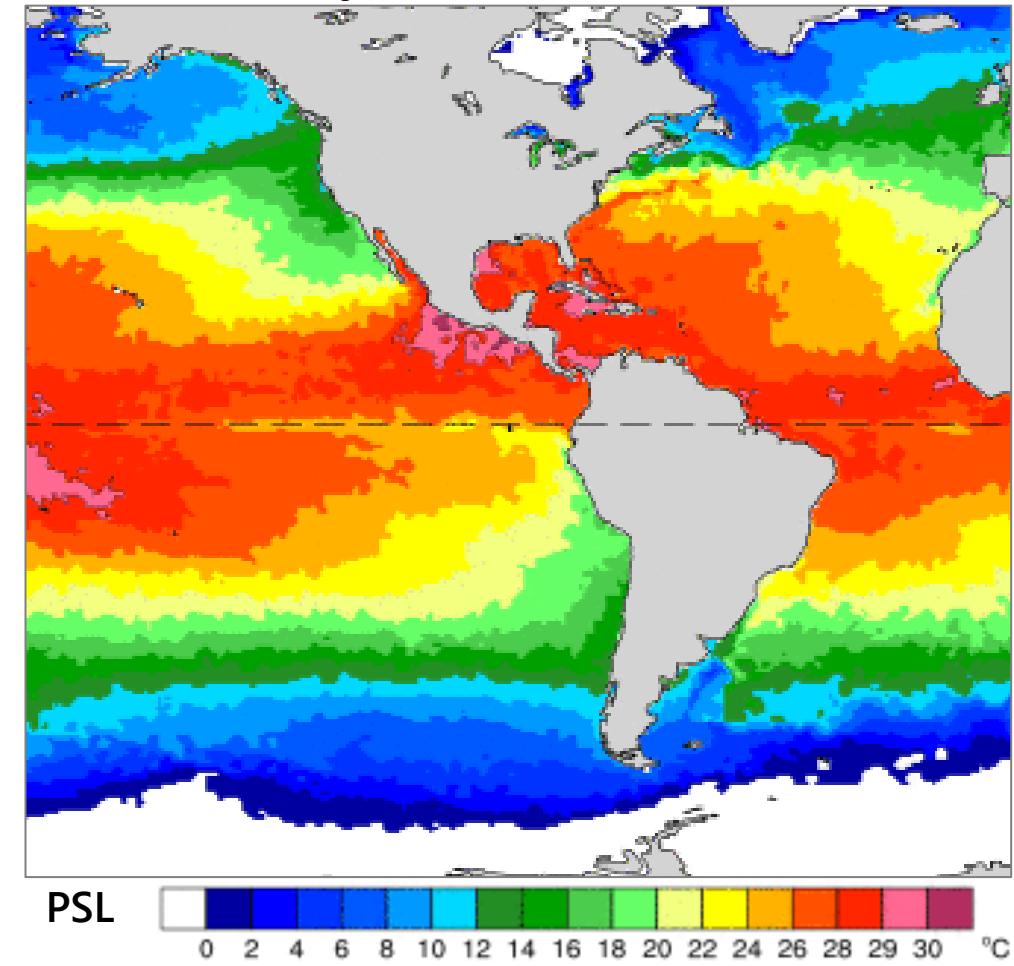
Wednesday 23 June 2021

Sea Surface Temperatures

Anomaly Evolution May 16 – June 19

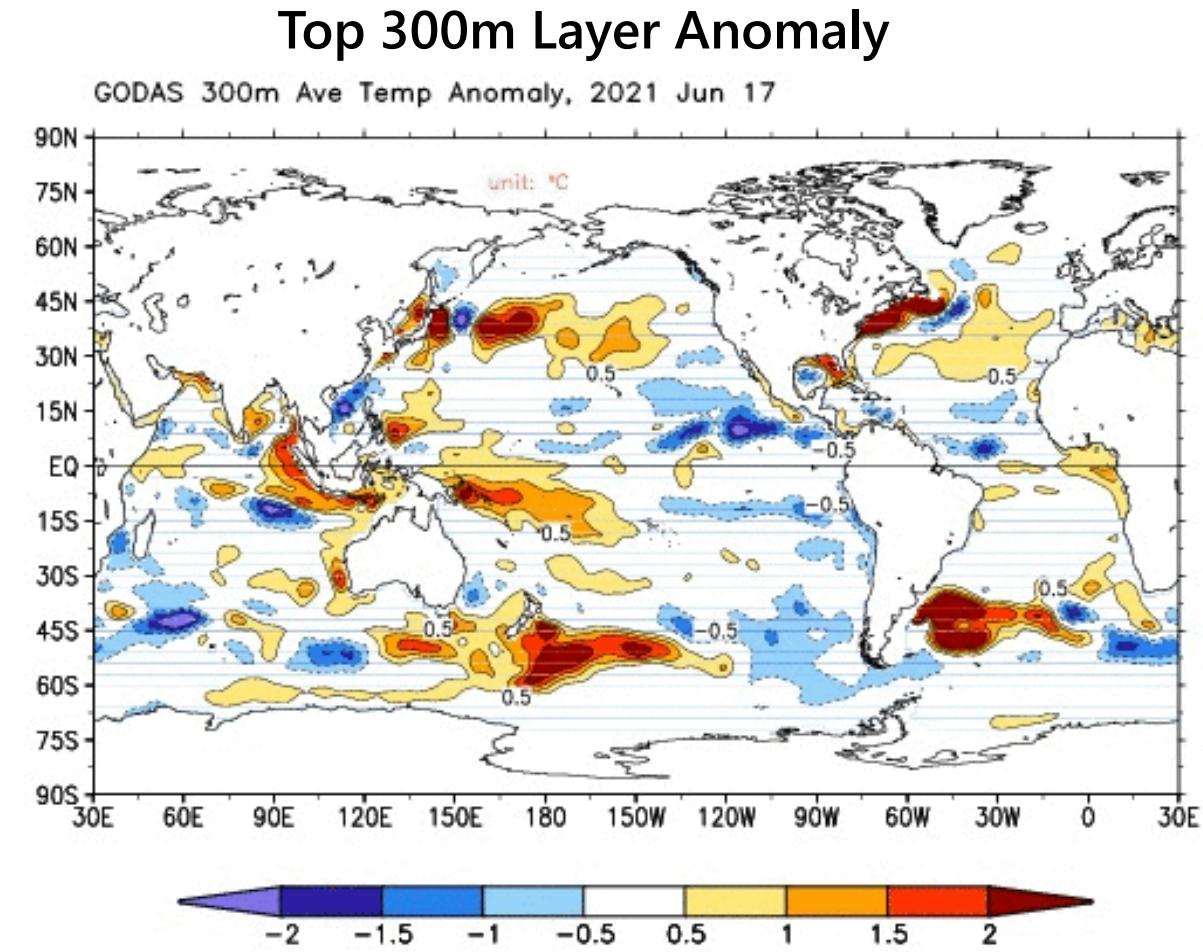
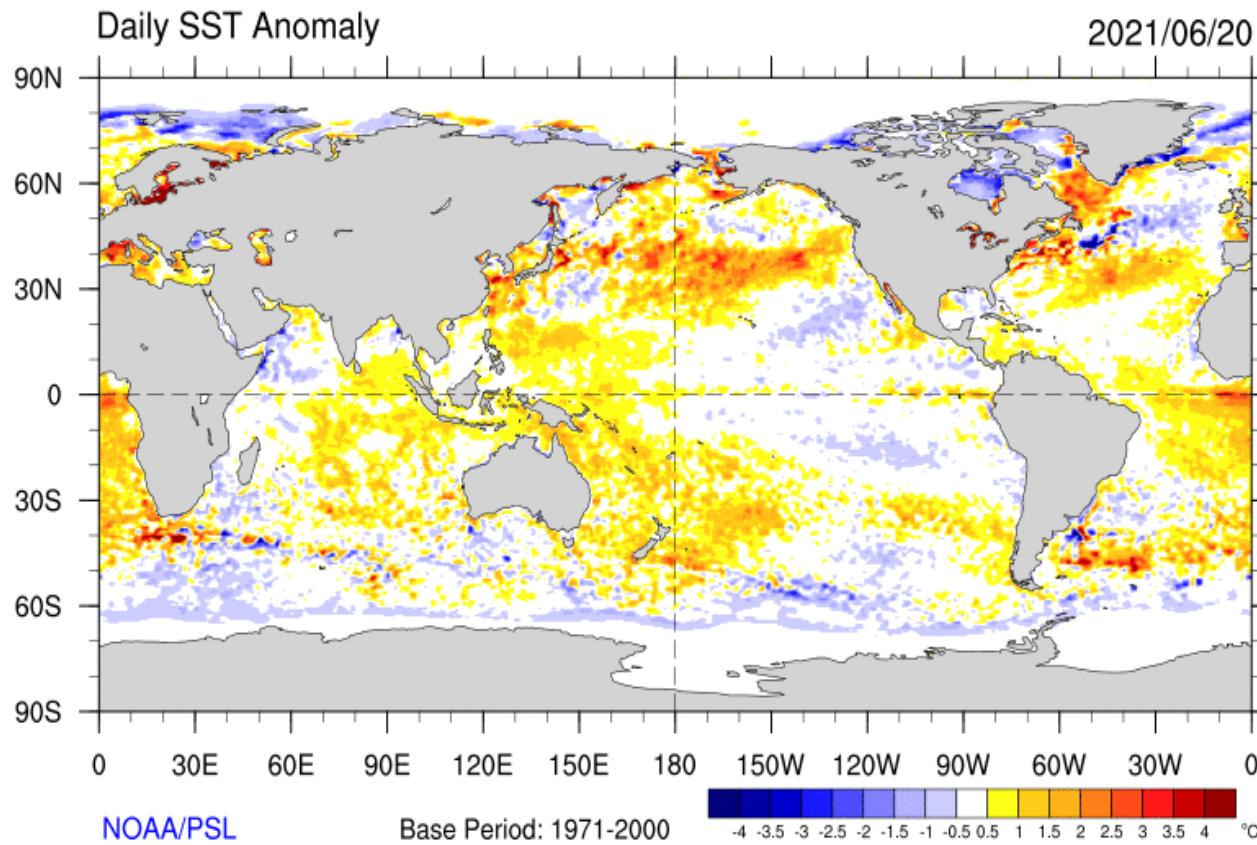


Daily SST June 20



Are the anomalies deep?

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



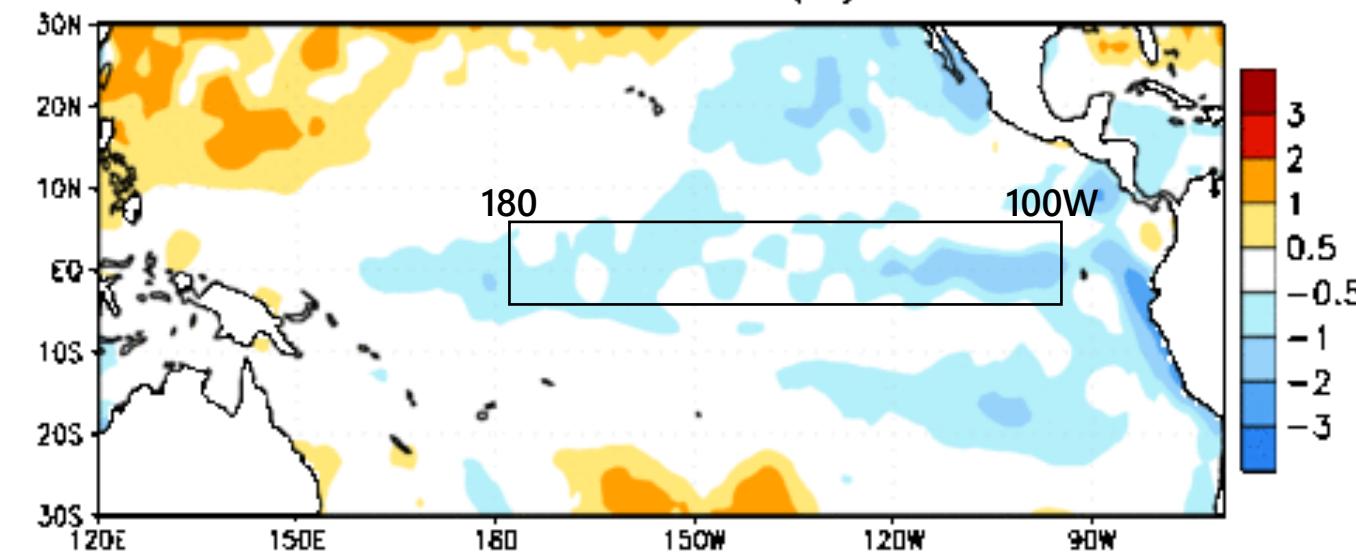
Source: CPC GODAS, <https://www.cpc.ncep.noaa.gov/products/GODAS/>

ENSO: Neutral

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

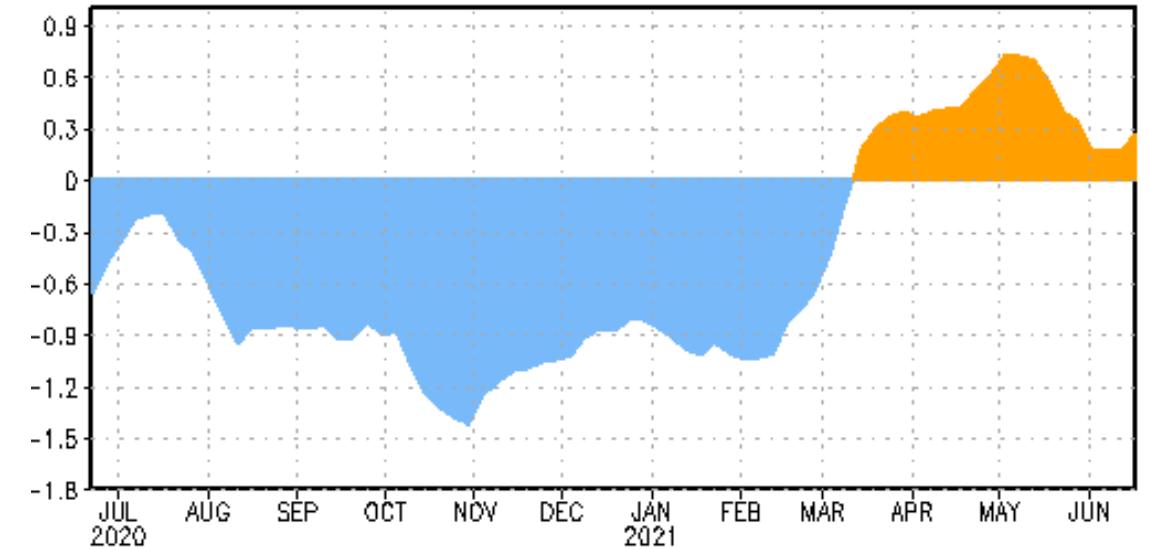
Week centered on 31 MAR 2021

SST Anomalies (°C)



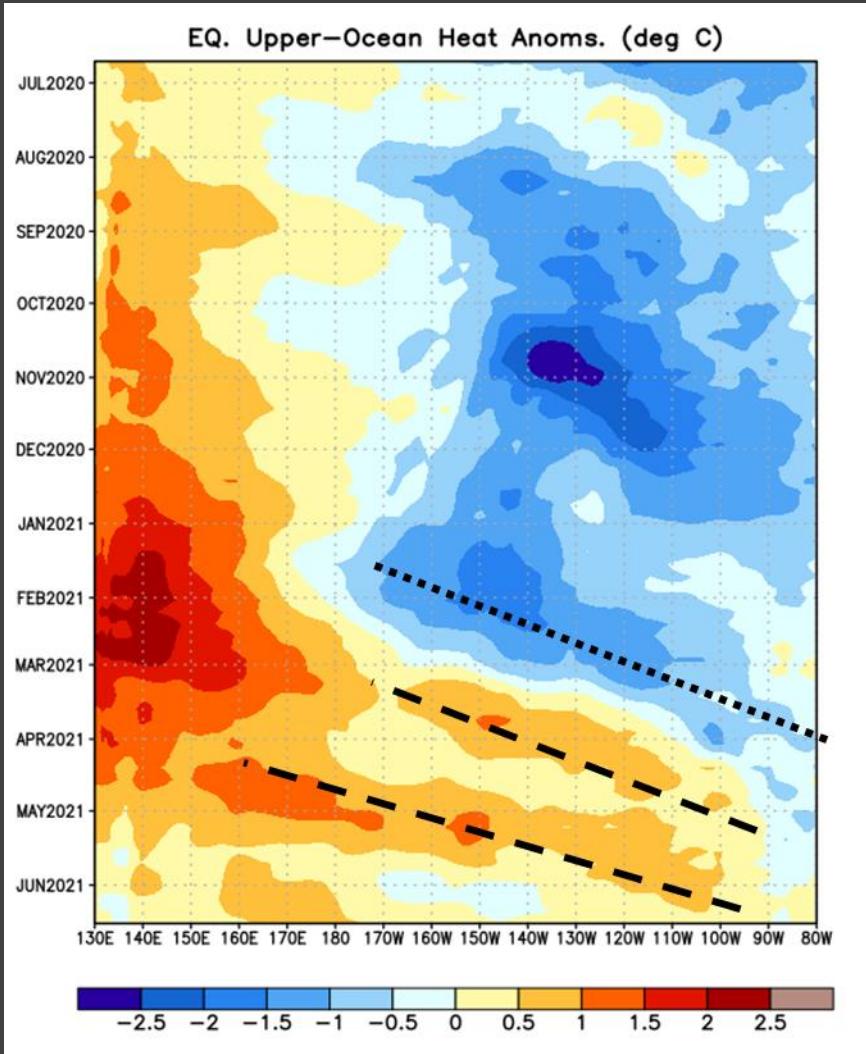
Source: CPC

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

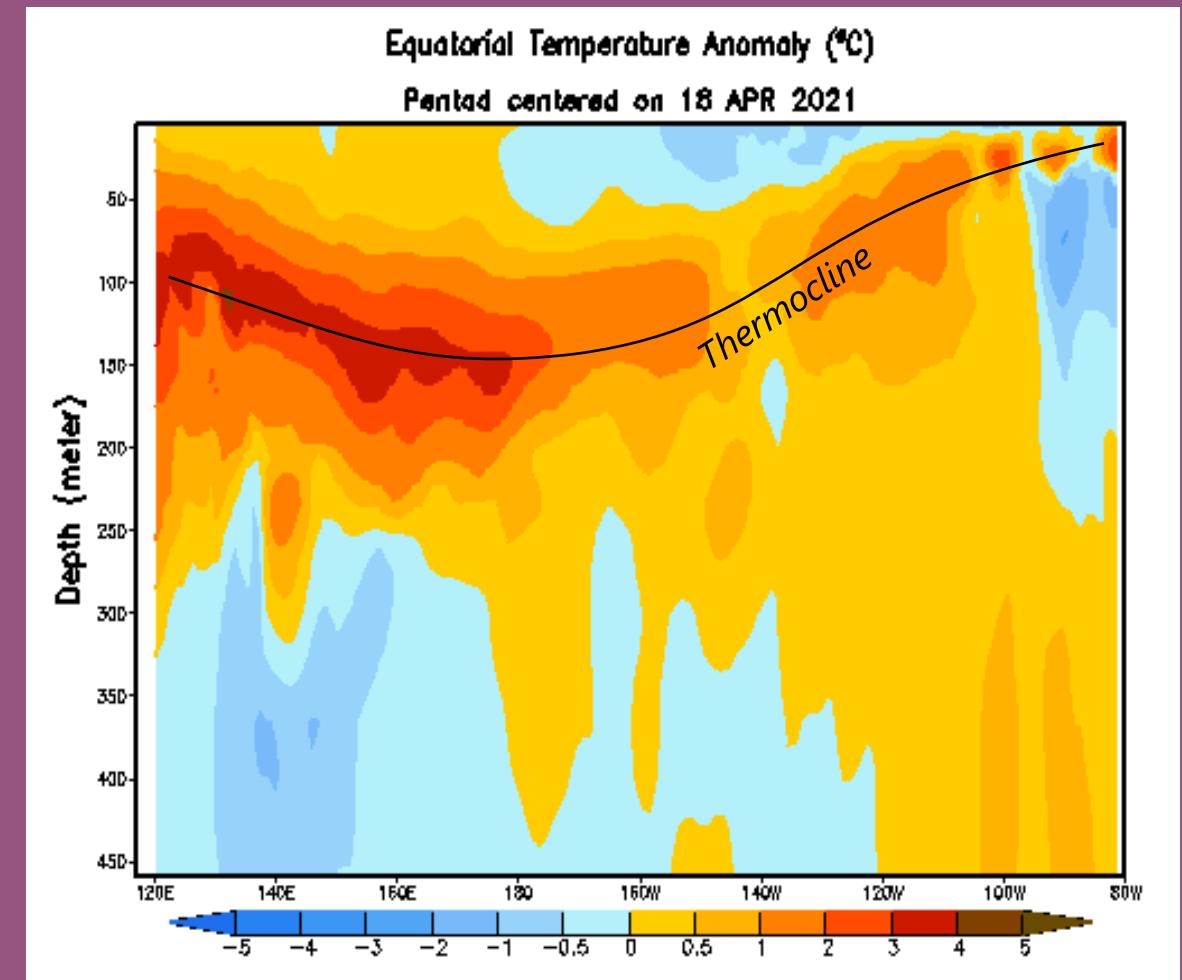


ENSO: Oceanic Kelvin Waves

Hovmöller: Heat Content



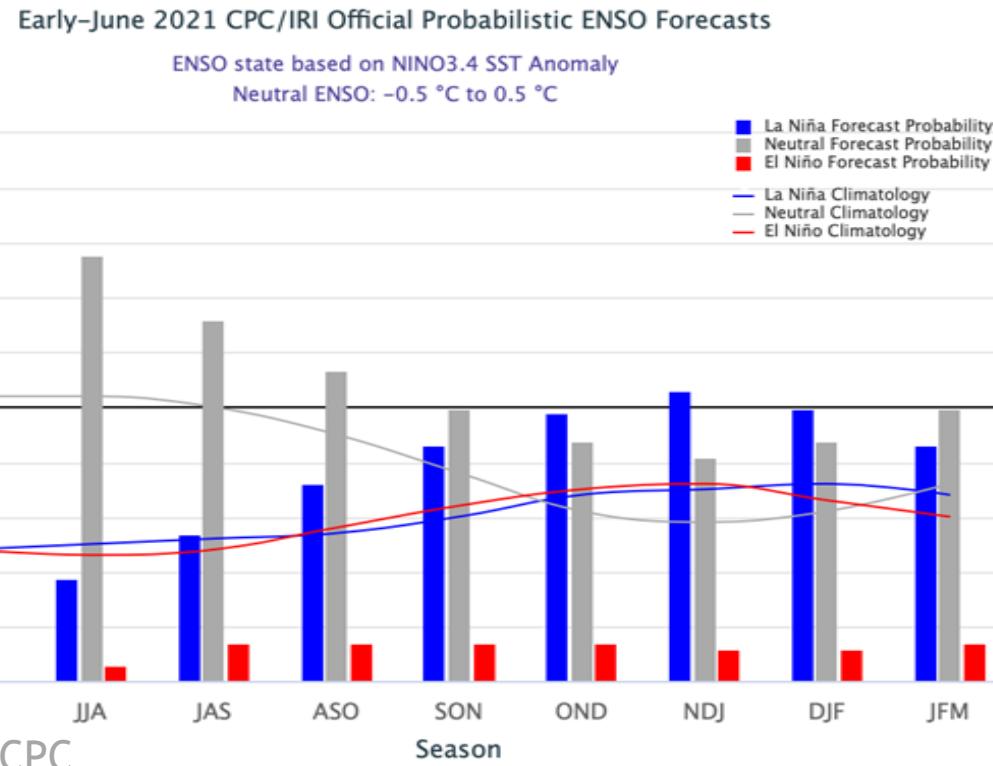
Equatorial Pacific Temp. Anomaly



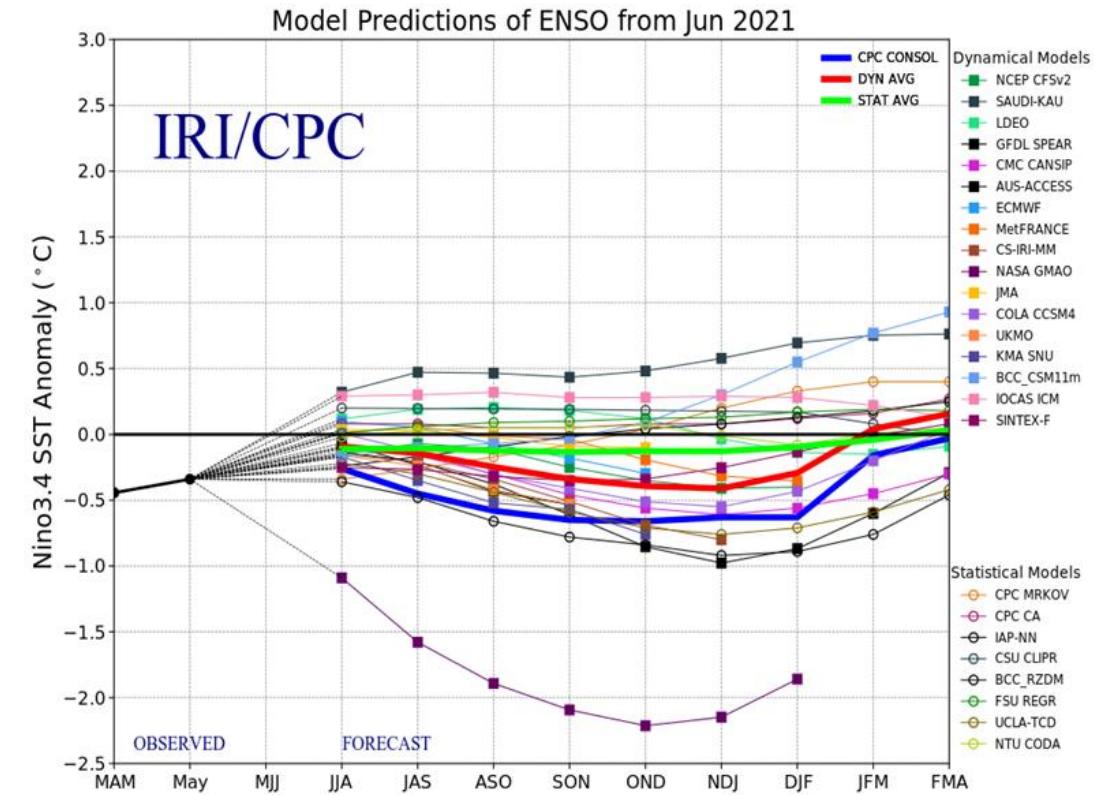
ENSO Outlook

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).*

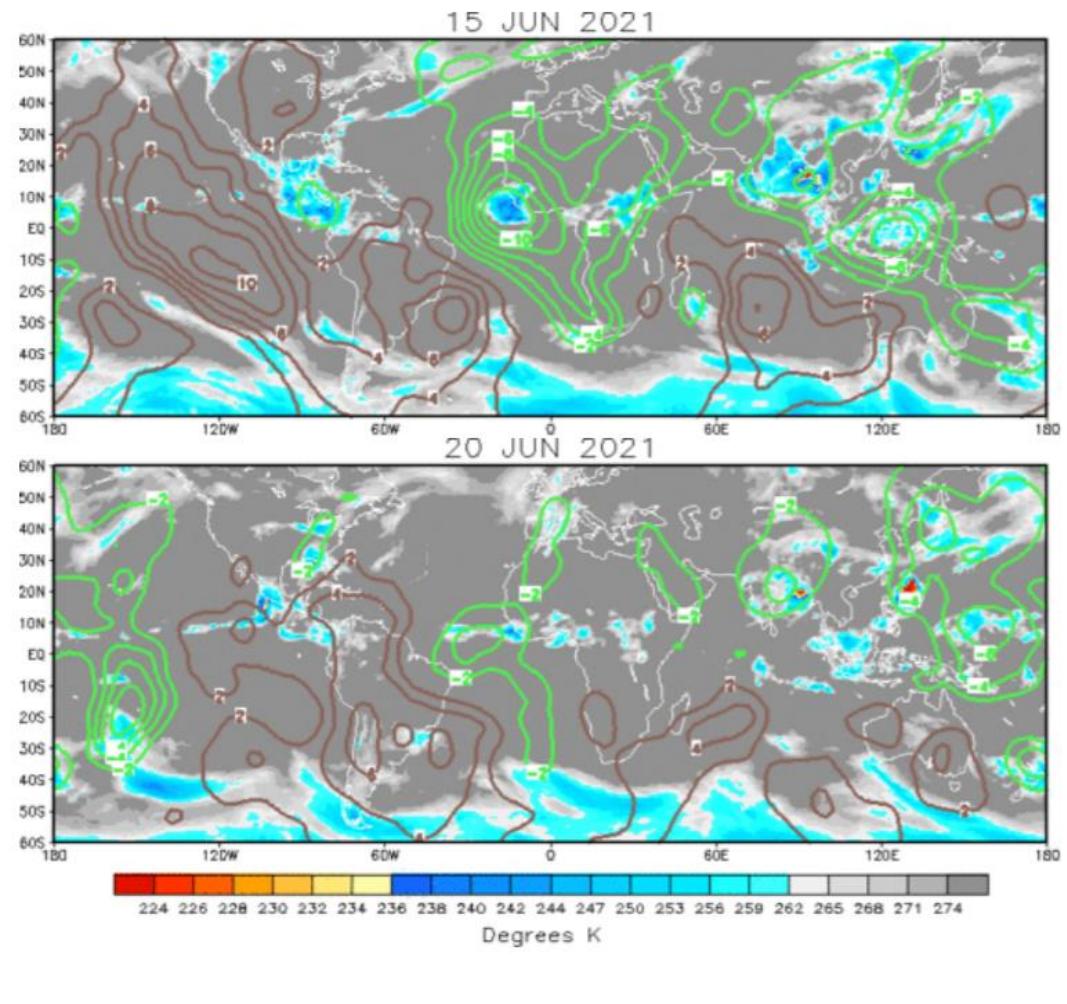
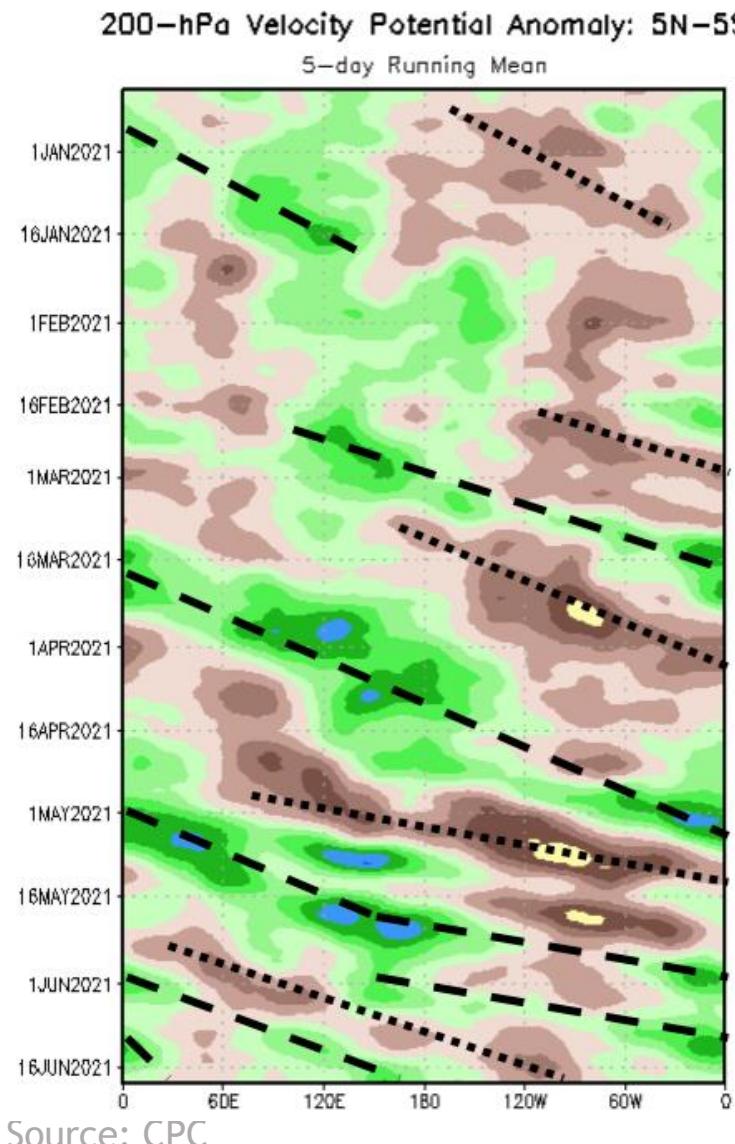
CPC/IRI Probabilistic Forecast



IRI/CPC Dynamic Models



Madden-Julian Oscillation (MJO)

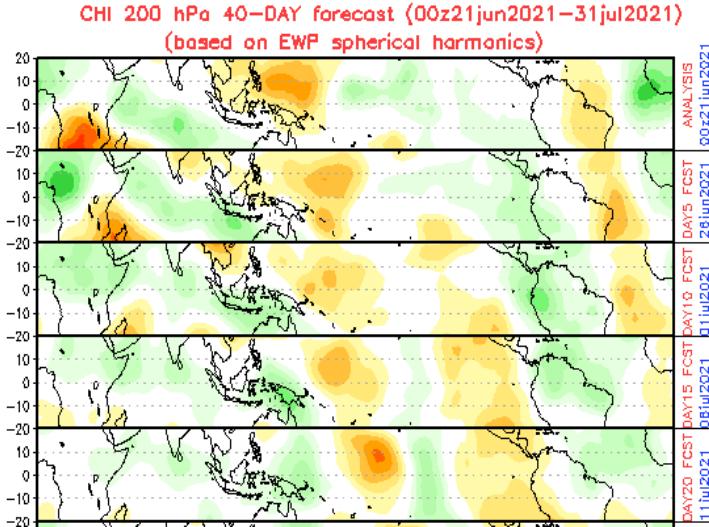


Favors rain storms

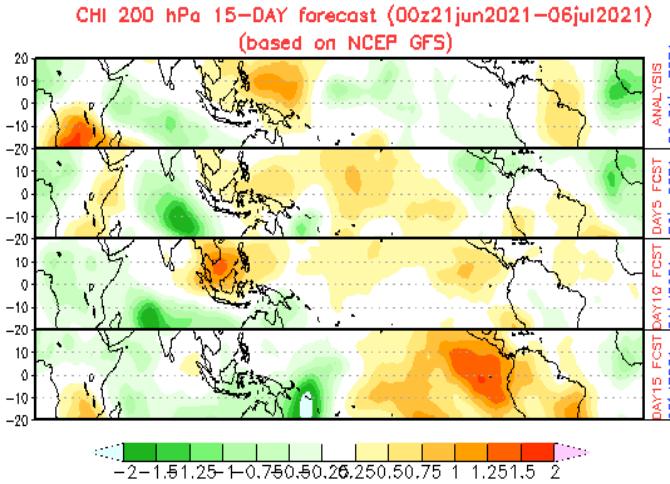
Favors limited rainfall

MJO Forecasts

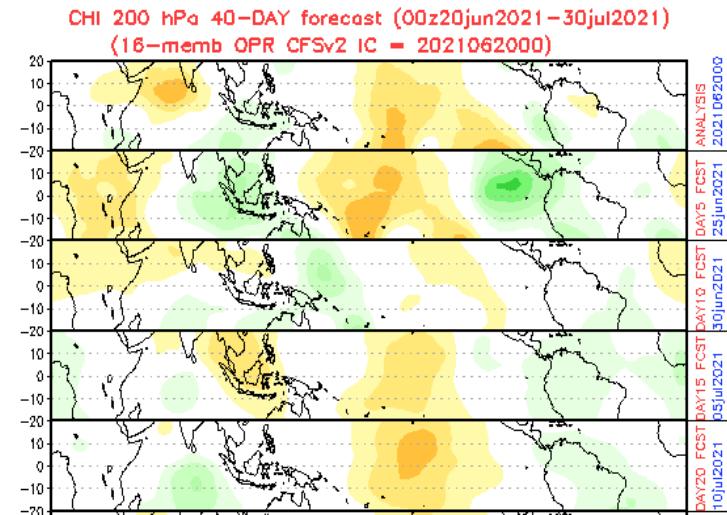
EWP



GFS



CFS

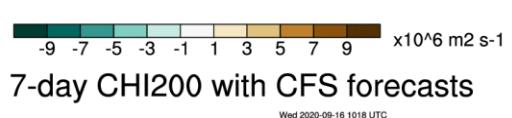


Upper divergent pulse through
the end of June

Upper convergent: early July



ncics.org/mjo

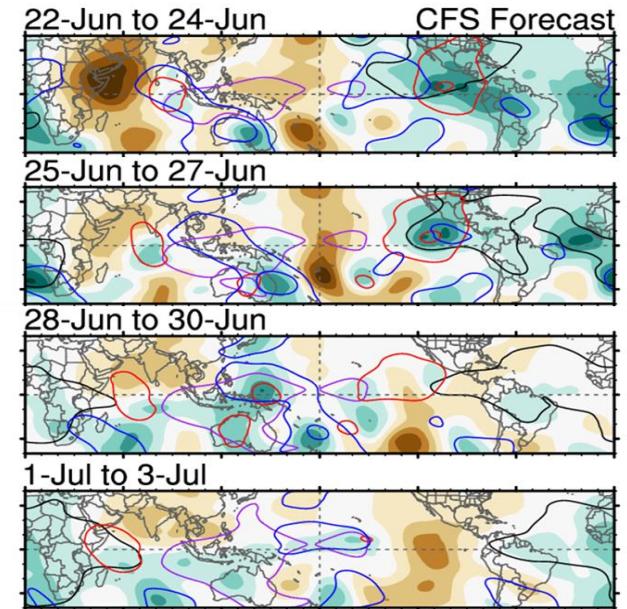


MJO
Low
ER

Kelvin x2

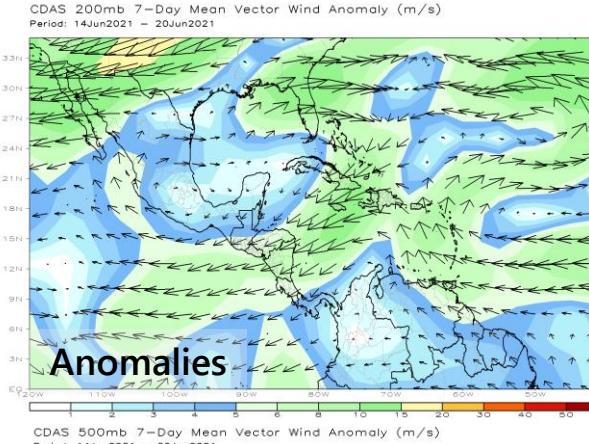
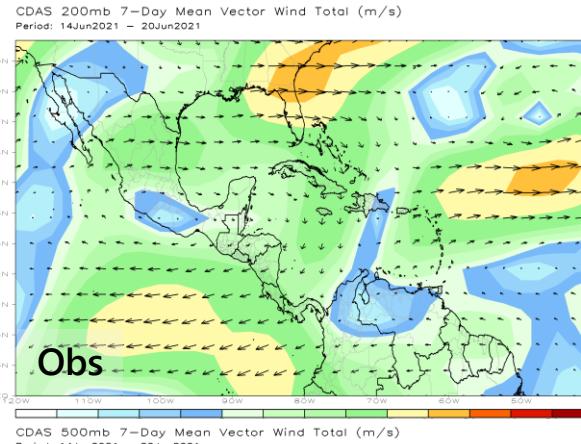
Contours at -2, -6 x10^6 m^2 s^-1

Carl Schreck
carl_schreck@ncsu.edu

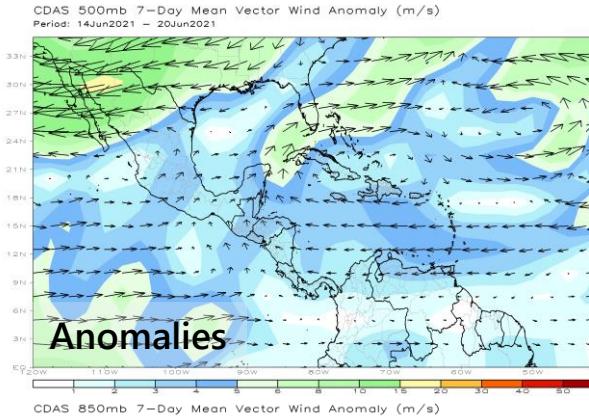
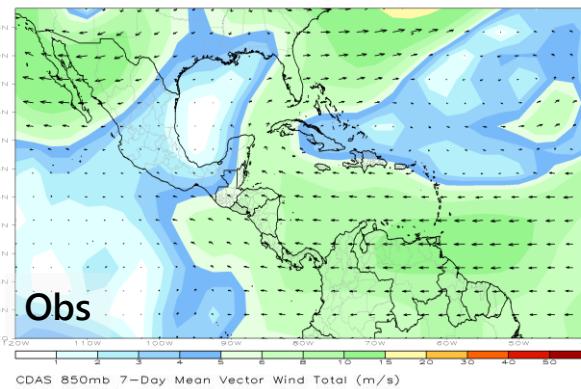


Last Week's Circulation and Rainfall – Tropical Americas

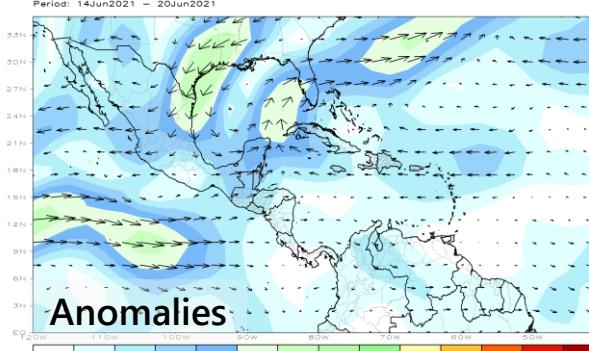
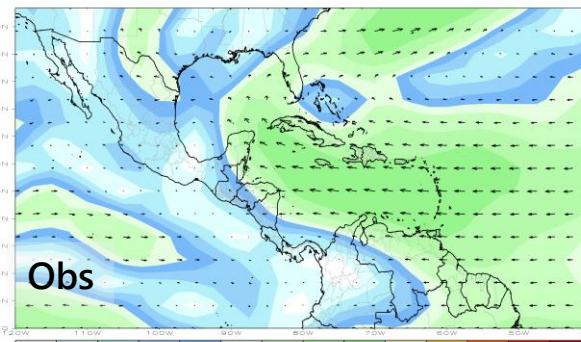
200
hPa



500
hPa

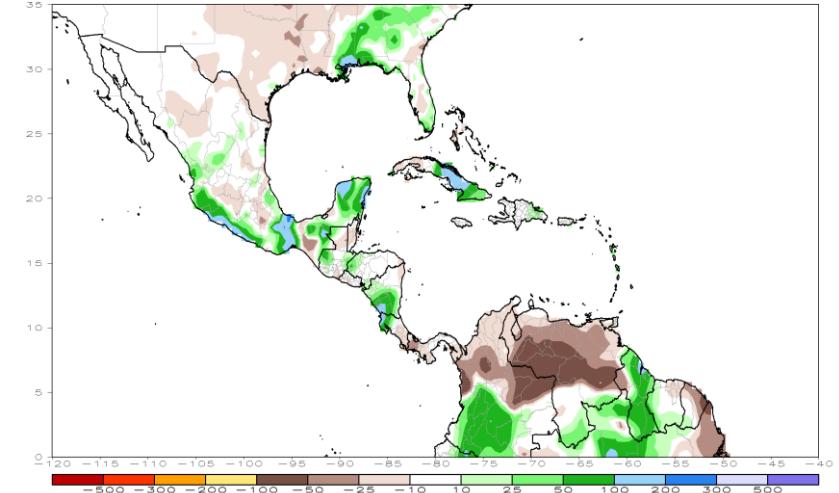


850
hPa

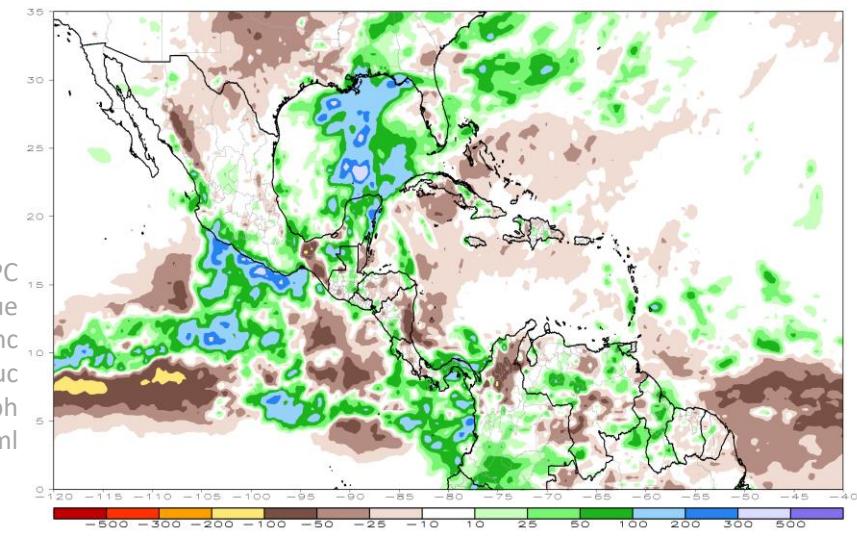


Rainfall

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



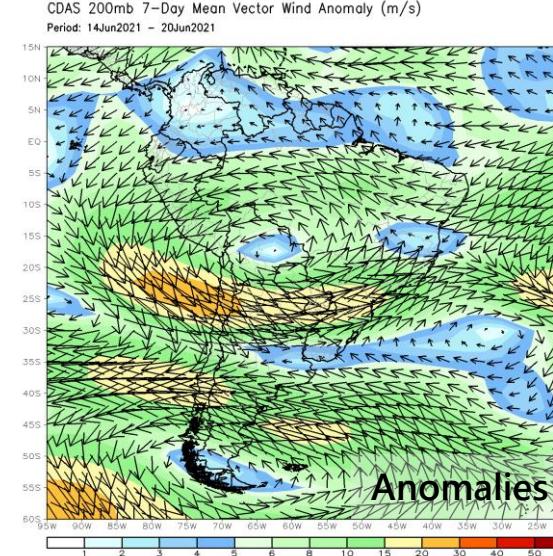
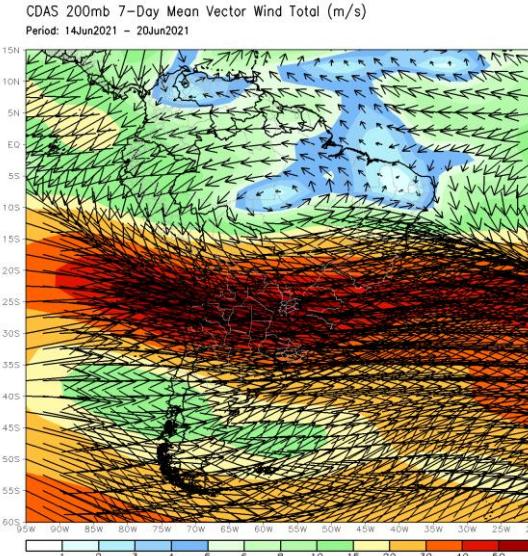
CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 15Jun2021 – 21Jun2021



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

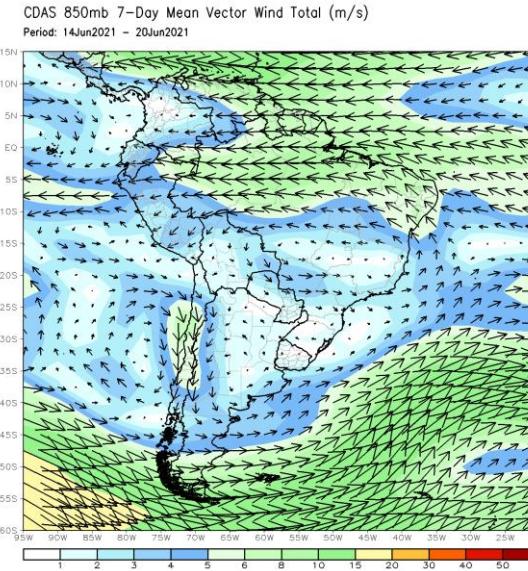
Last Week's Circulation and Rainfall – South America

200
hPa



Anomalies

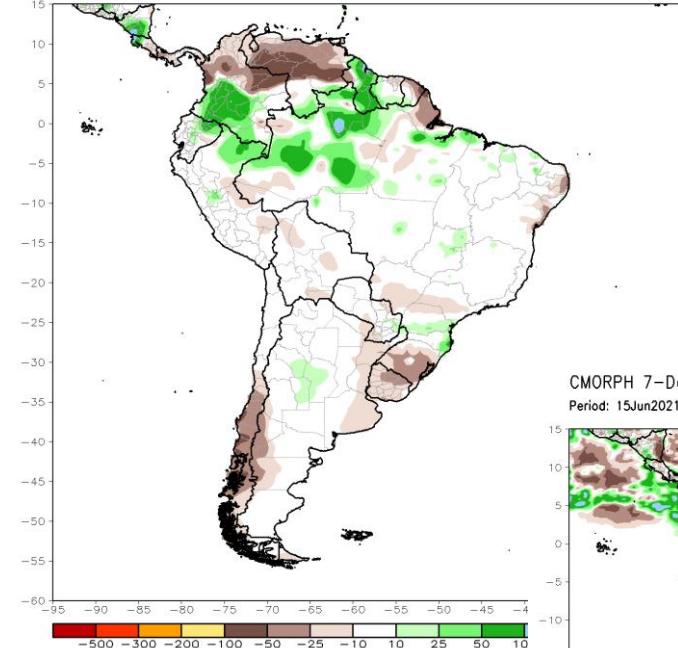
850
hPa



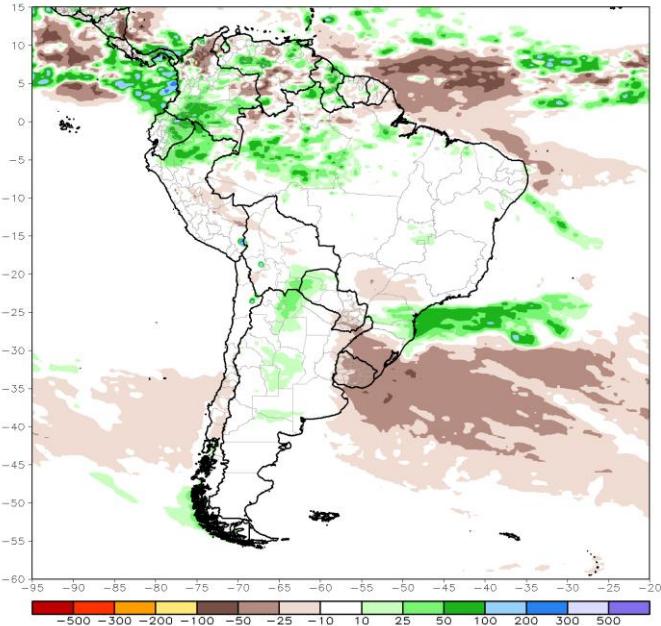
Anomalies

Rainfall

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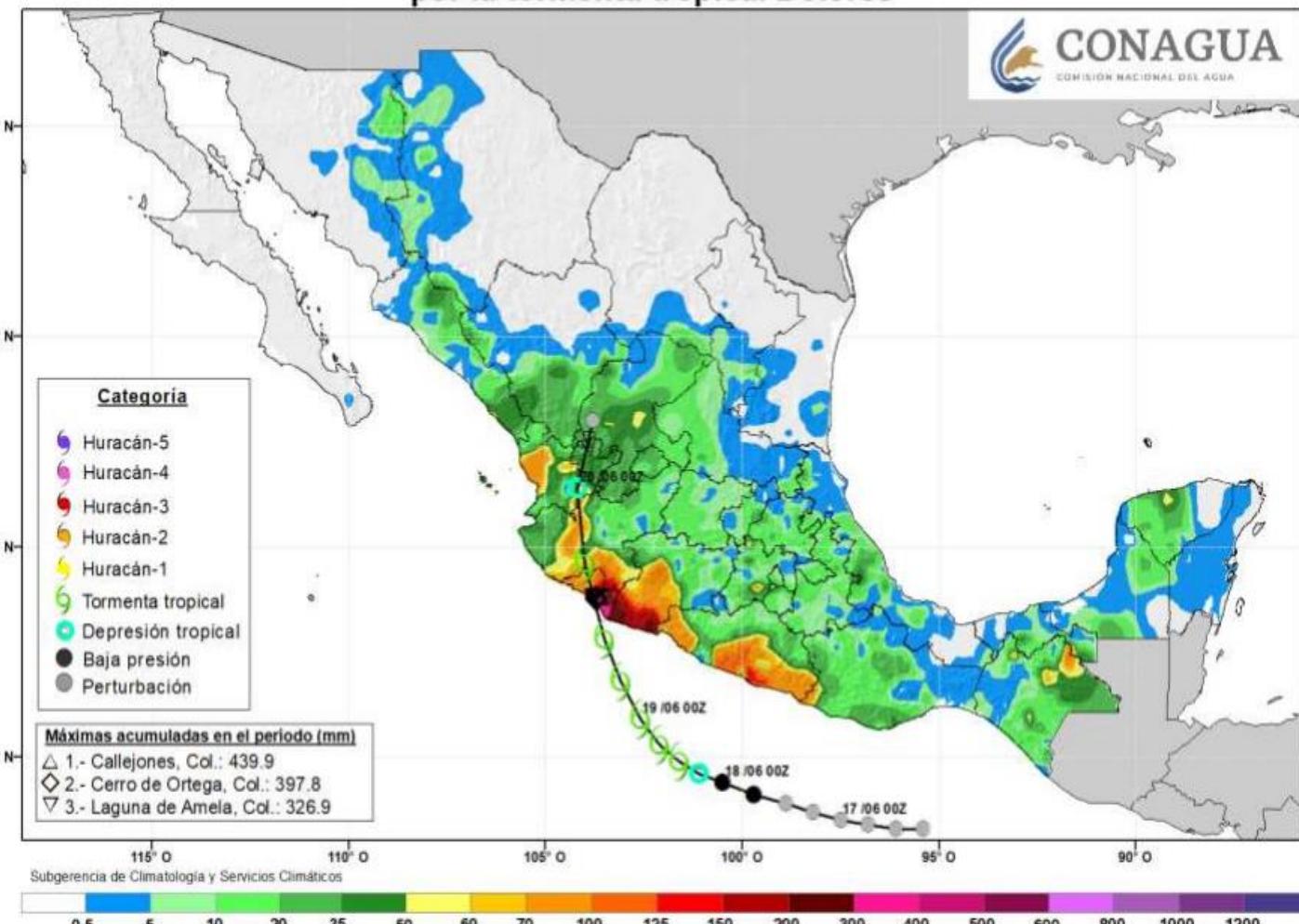
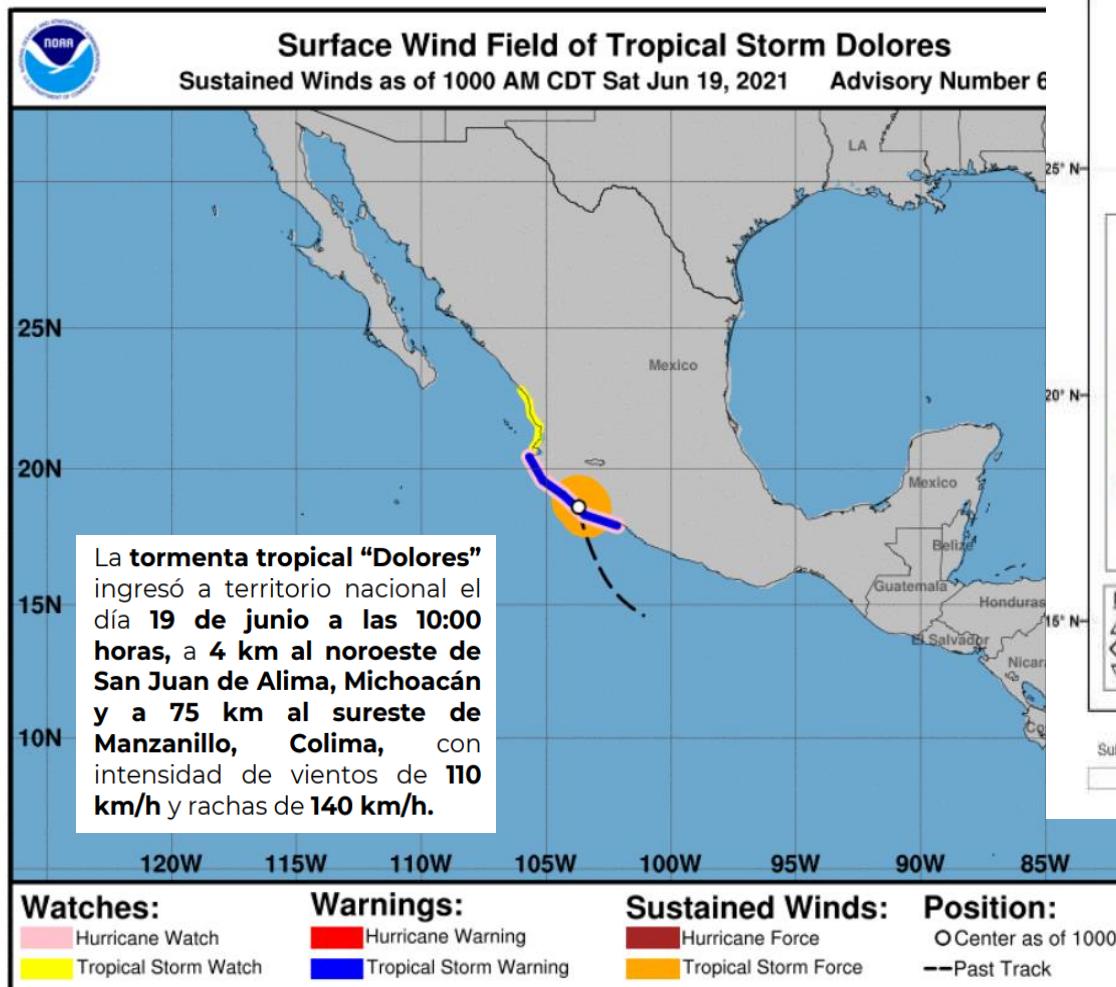
CMORPH 7-Day Total Rainfall Anomaly (mm)
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CMORPH: CPC Morphing Technique
https://www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.html

Tropical Storm Dolores

Precipitación acumulada (mm) del 18 al 20 de junio del 2021
por la tormenta tropical Dolores



¡Gracias!

Thank you!