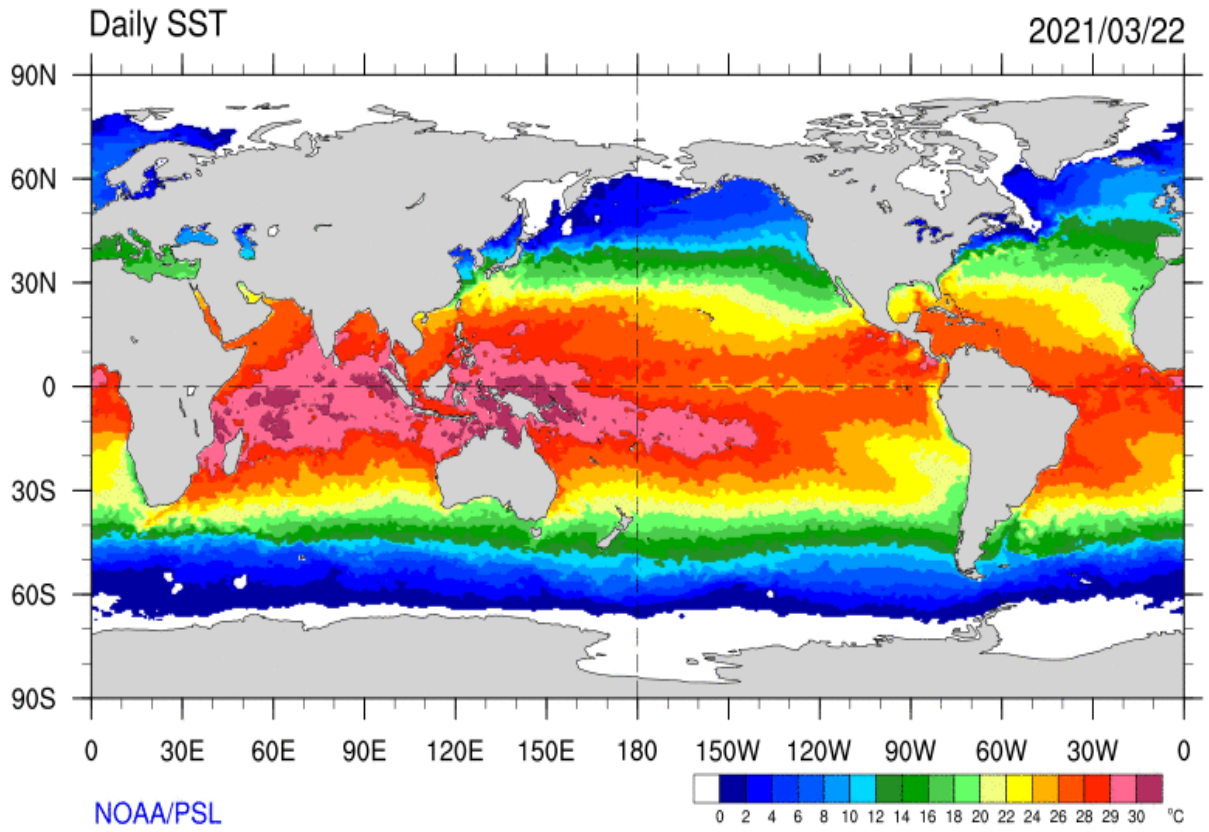
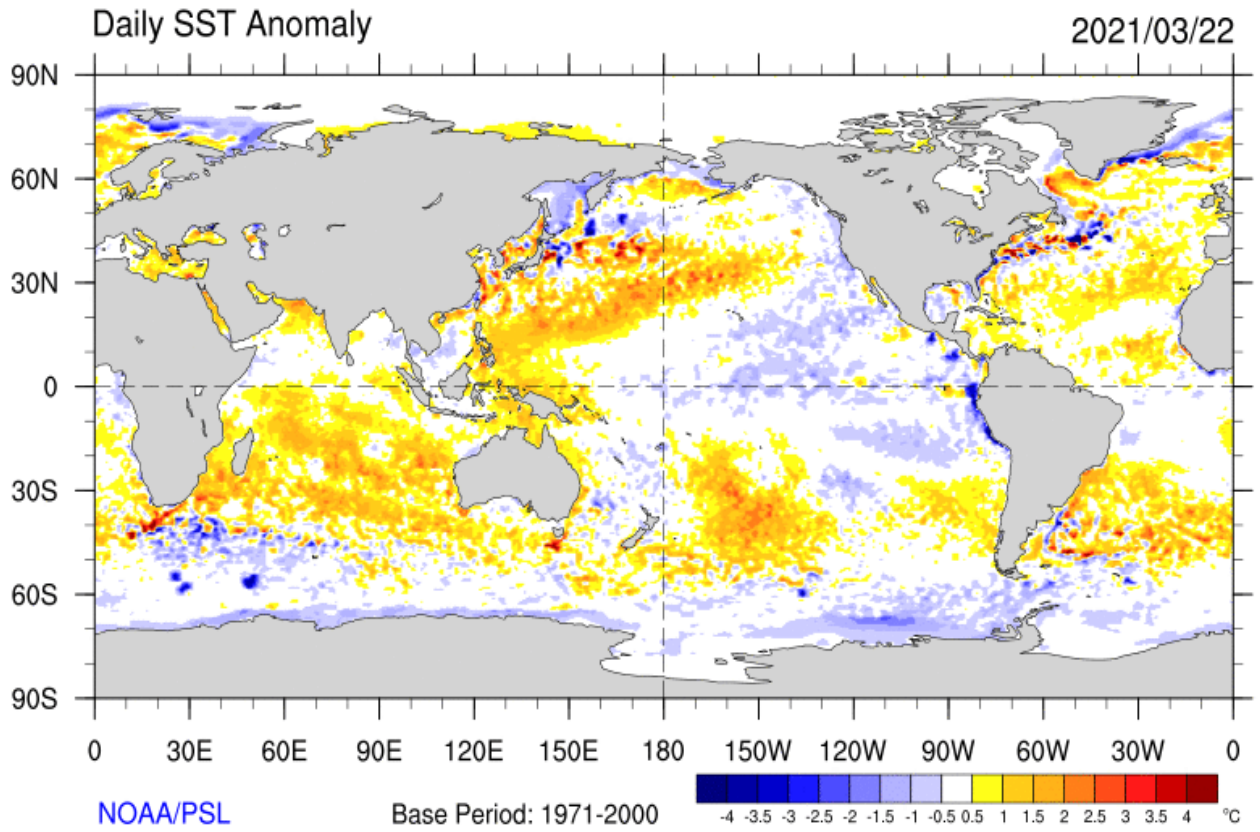
Monthly Regional Focus Group Session

Wednesday 24 March 2021

Sea Surface Temperatures (Last Week)

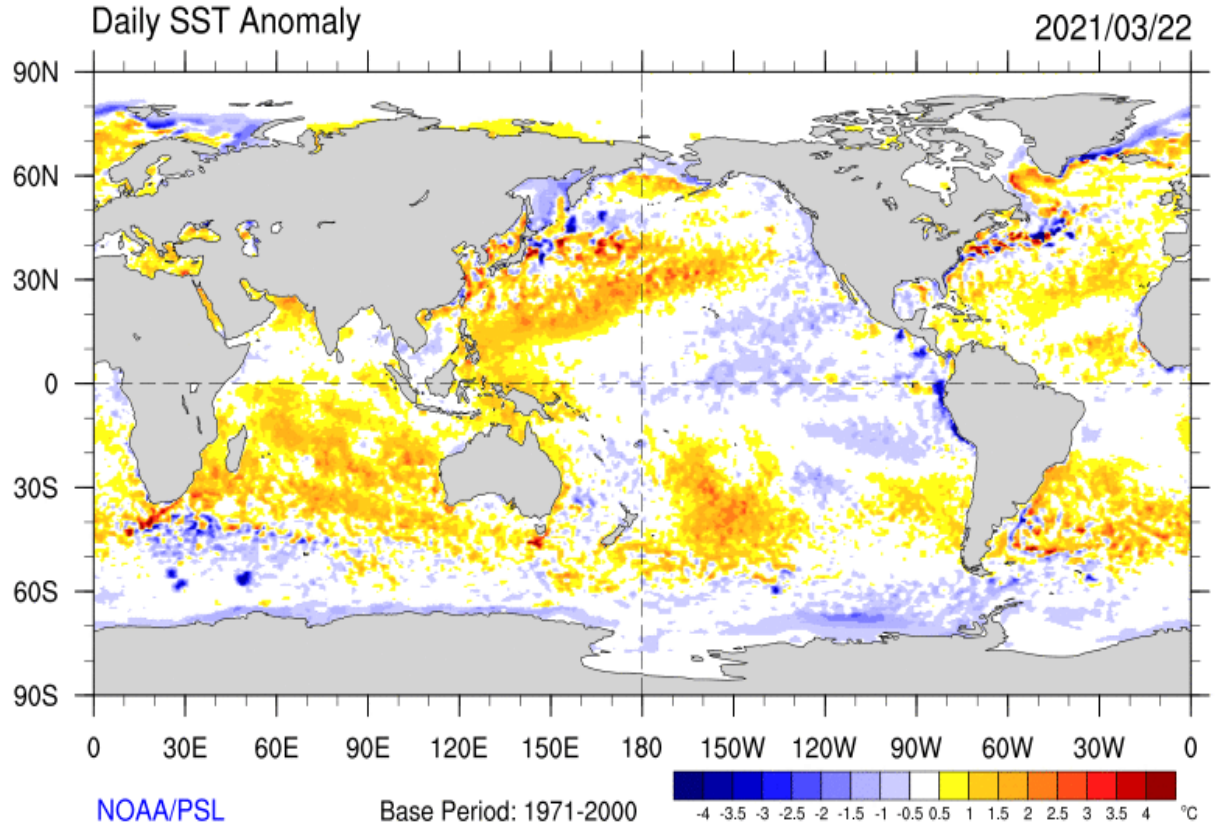




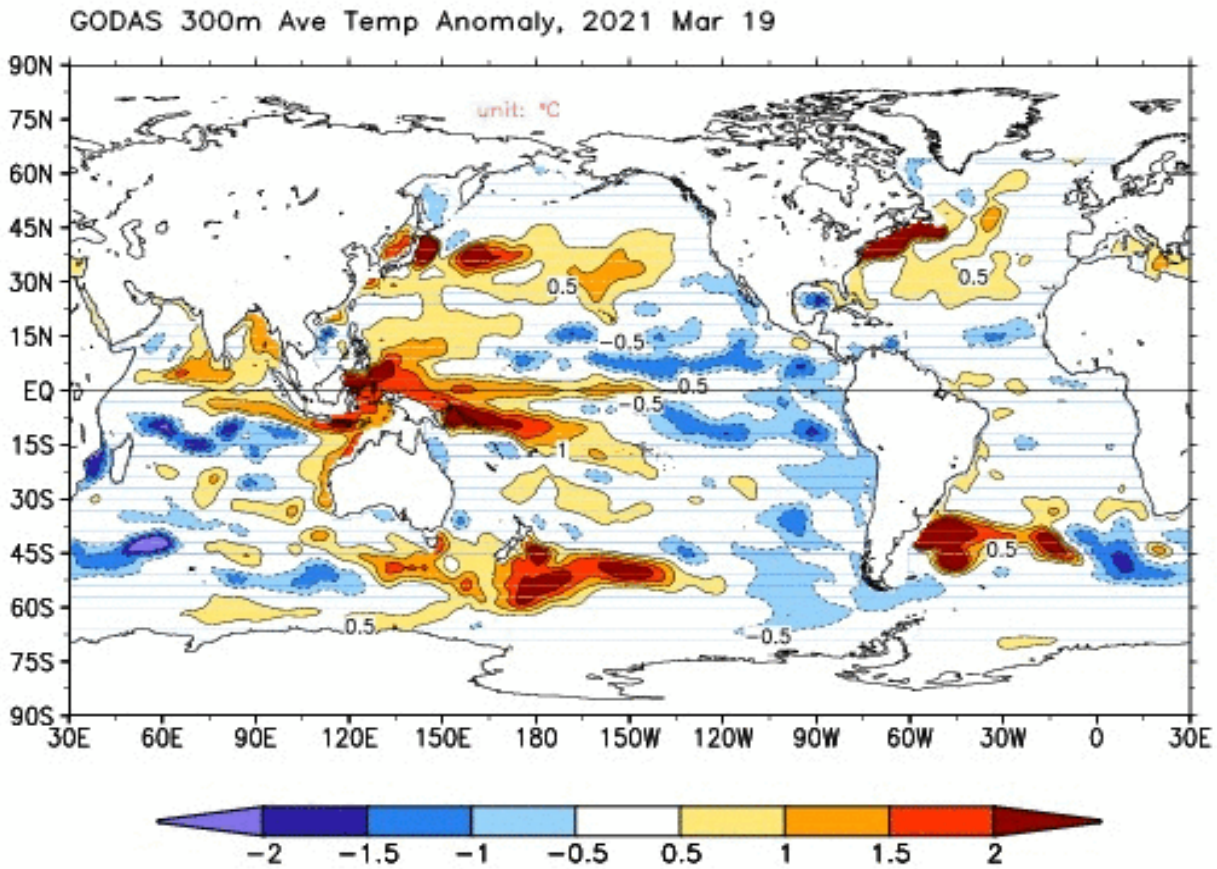
Source: https://psl.noaa.gov/map/clim/sst.shtml

Are the temperature anomalies deep?

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



Top 300m Layer Anomaly

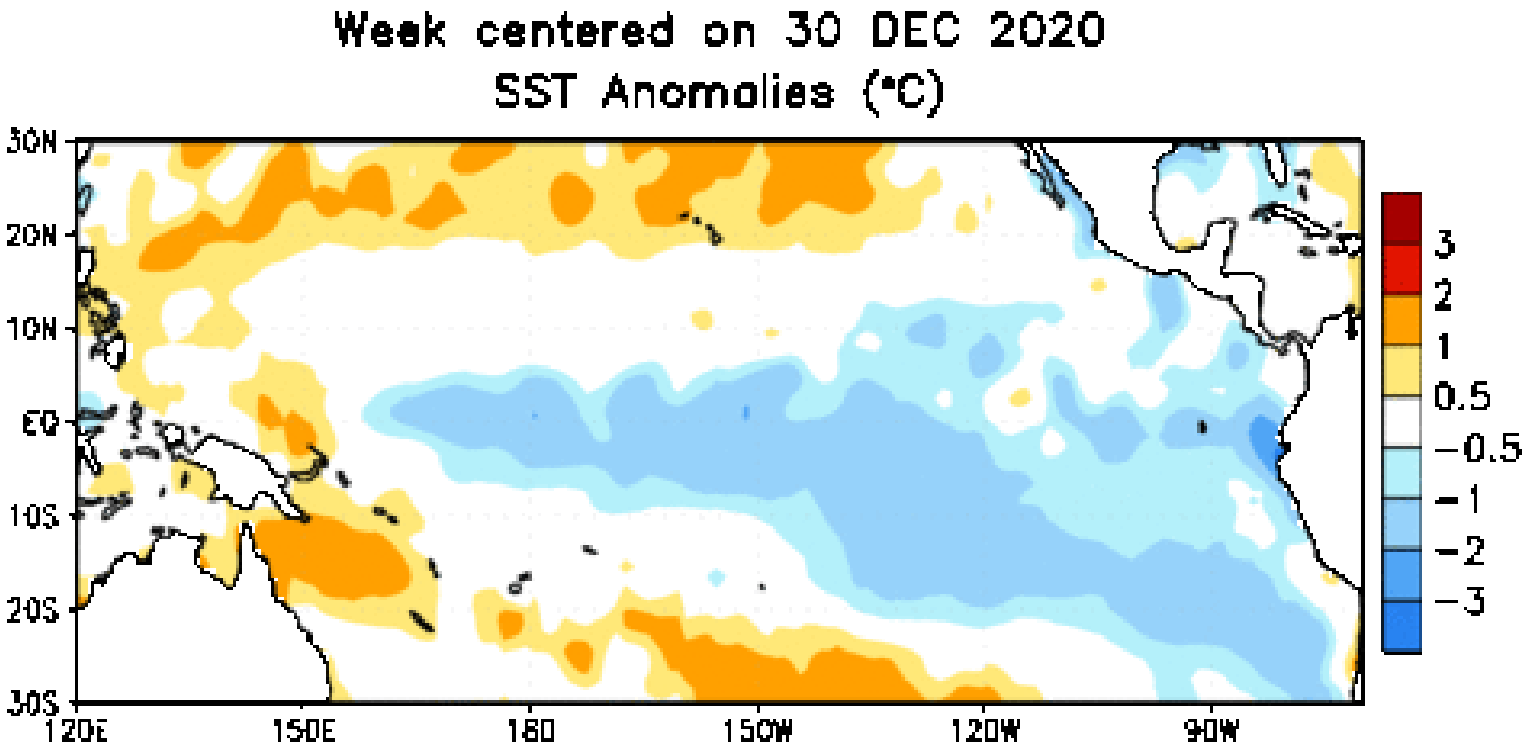


Source: CPC GODAS, https://www.cpc.ncep.noaa.gov/products/GODAS/

ENSO:

La Niña

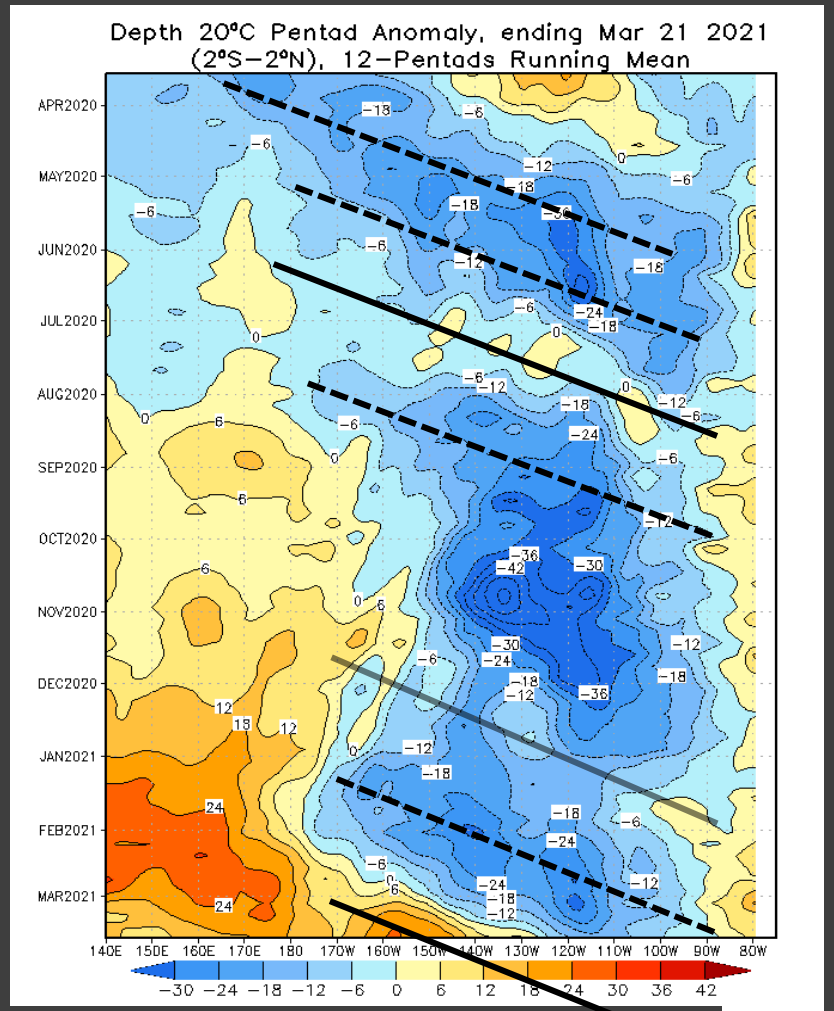
- La Niña is present.*
- Equatorial sea surface temperatures (SSTs) are below average from the west-central to eastern Pacific Ocean.
- The tropical atmospheric circulation is consistent with La Niña.



Source: CPC

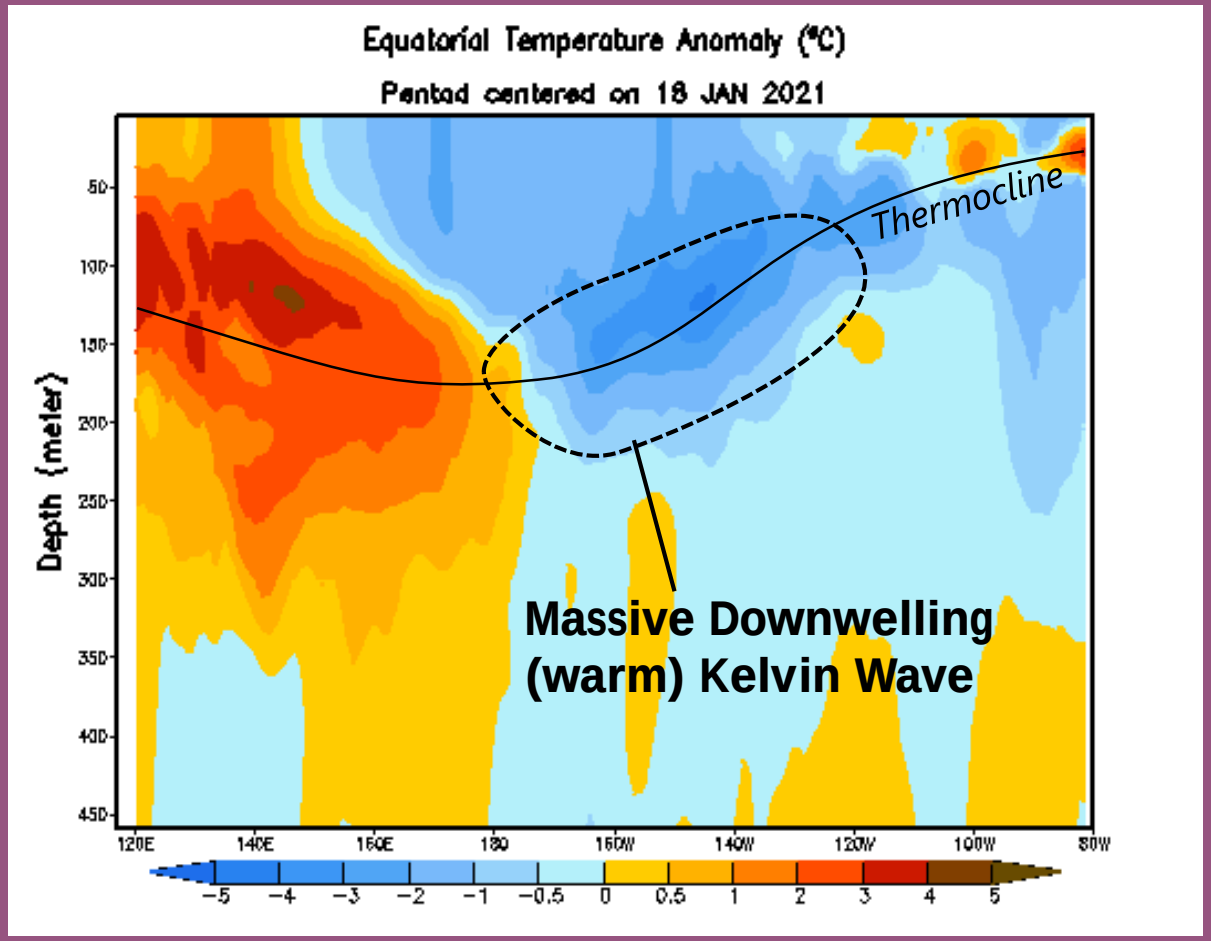
ENSO

Hovmöller: Heat Content



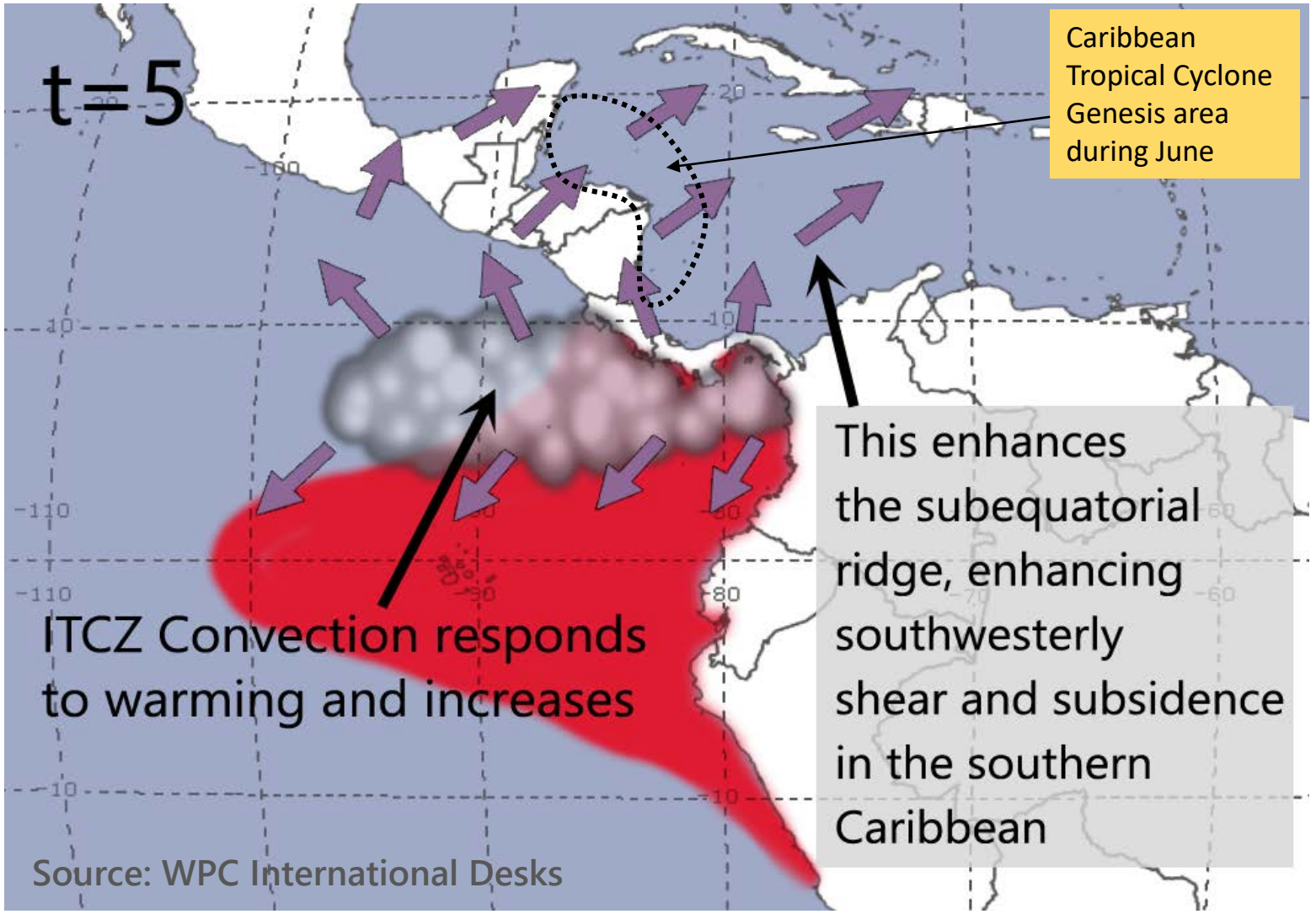
Source: CPC

Equatorial Pacific Temp. Anomaly



Potential SST Warming in May/June

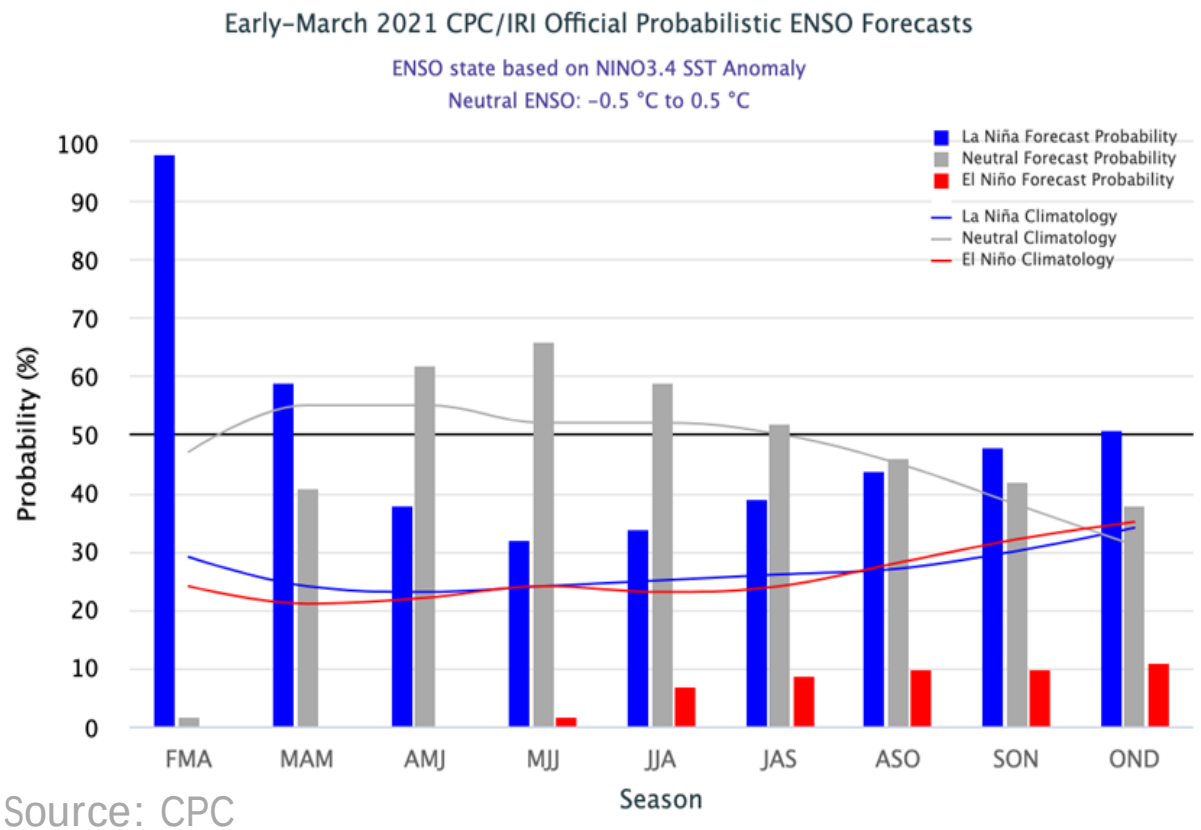
- Potential SST Warming in May/June in the Eastern Pacific
- Tends to favor more SW shear in the region where tropical ciclones form = less chance for cyclones.
- Could mean a more active Pacific season during onset.



ENSO Outlook

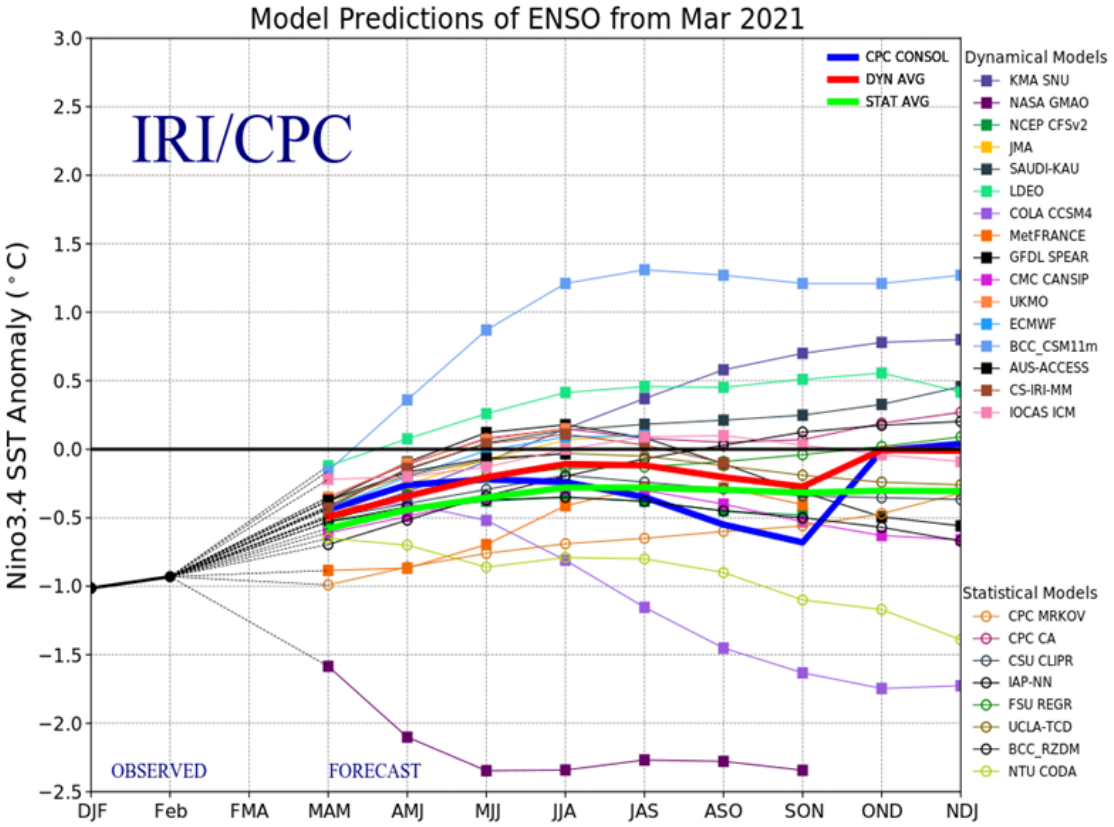
There is a ~60% chance of a transition from La Niña to ENSO-Neutral during the Northern Hemisphere spring 2021 (April-June).*

CPC/IRI Probabilistic Forecast

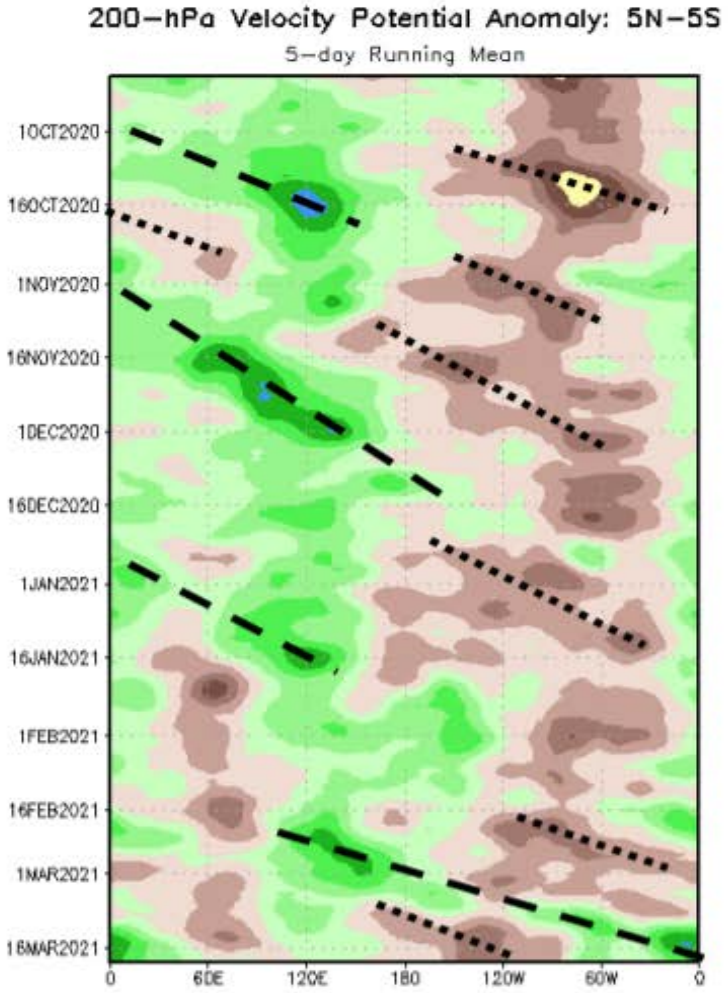


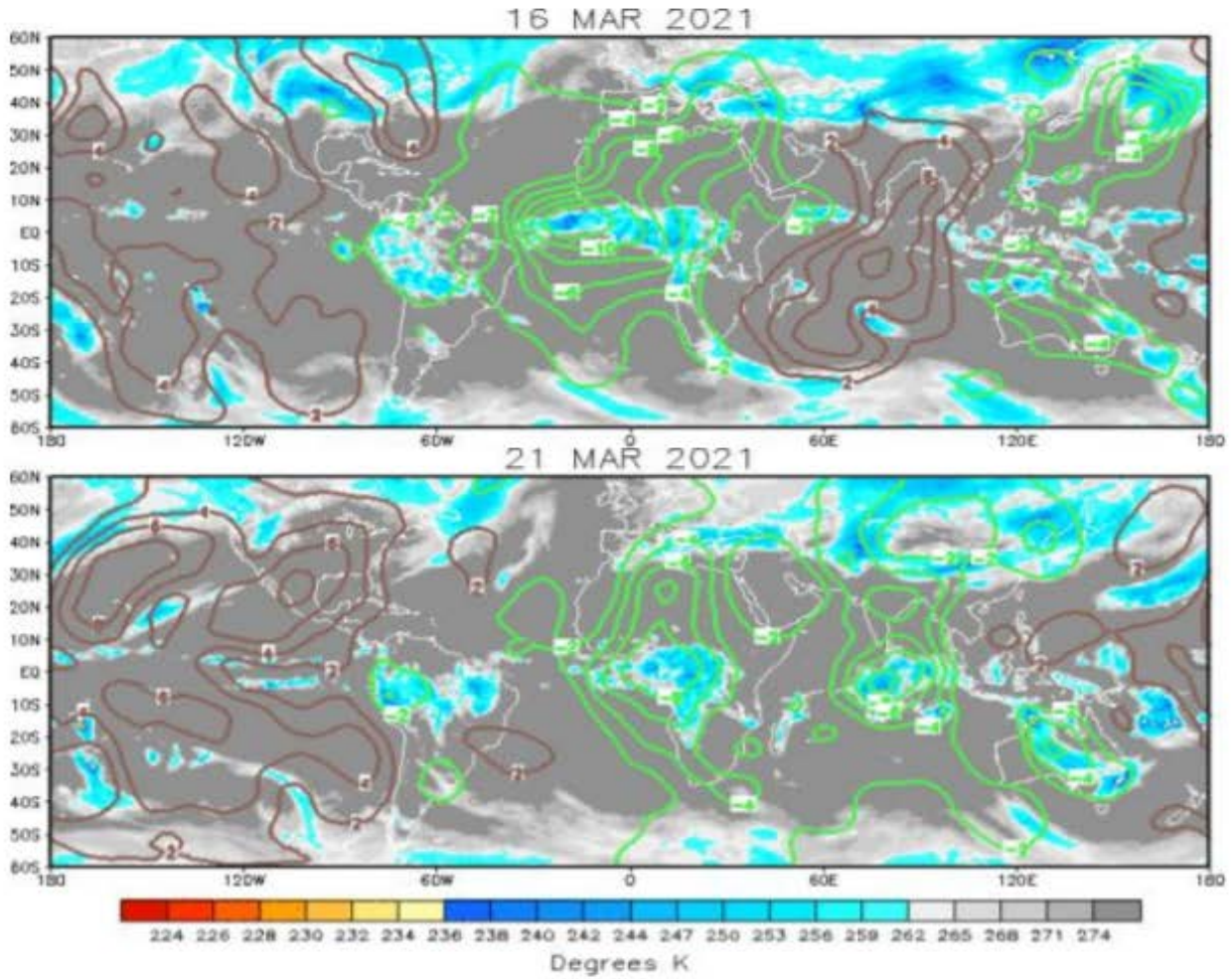
Source: CPC

IRI/CPC Dynamic Models



Madden-Julian Oscillation (MJO)





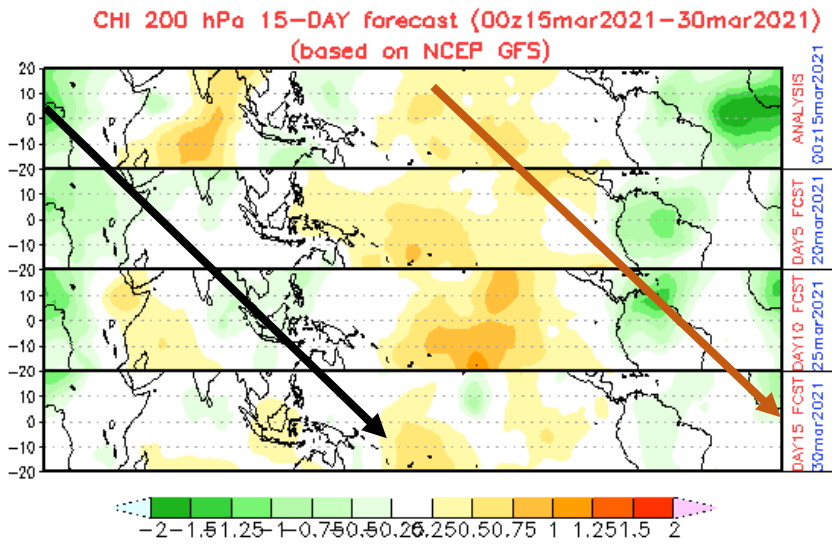
Favors rain storms

Favors limited rainfall

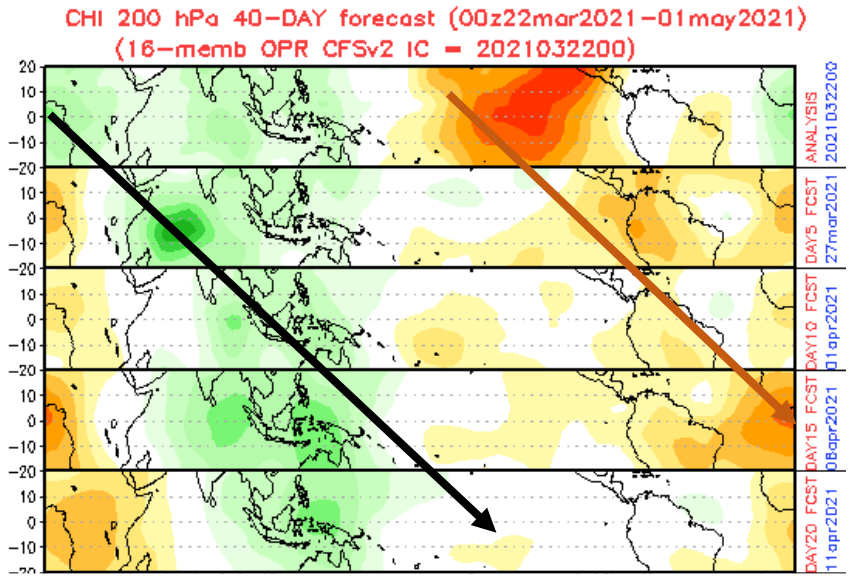
Source: CPC

MJO Forecasts

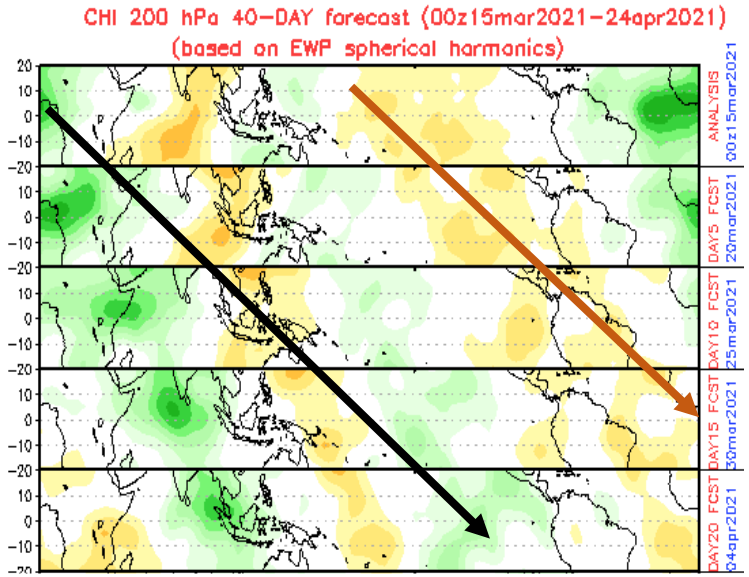
GFS

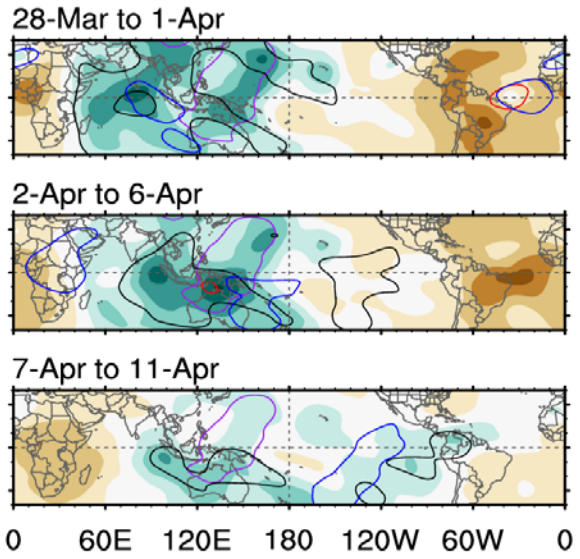


CFS

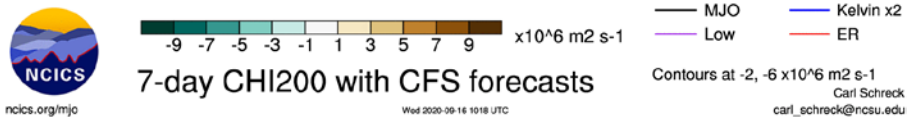


EWP



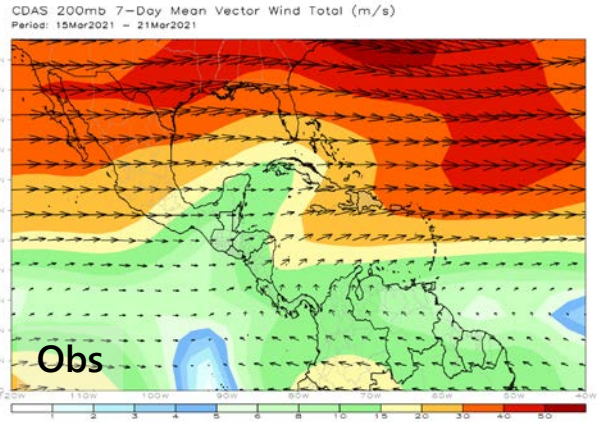


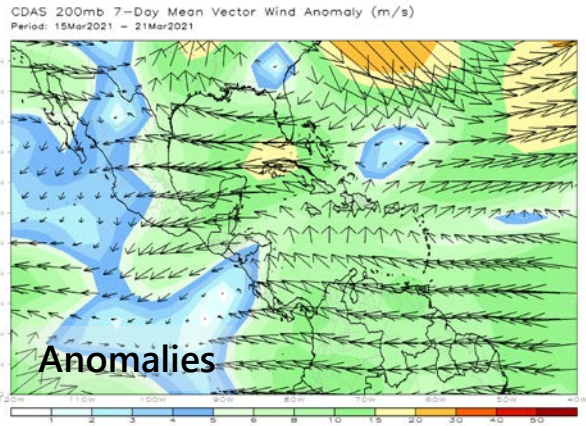
Upper divergent phase: Weak and in Mid April?



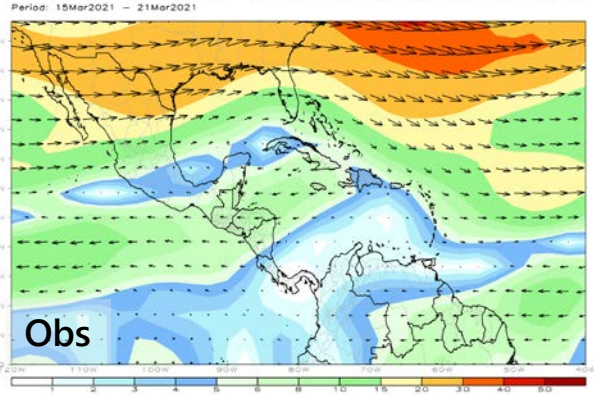
Last Week's Circulation and Rainfall – Tropical Americas

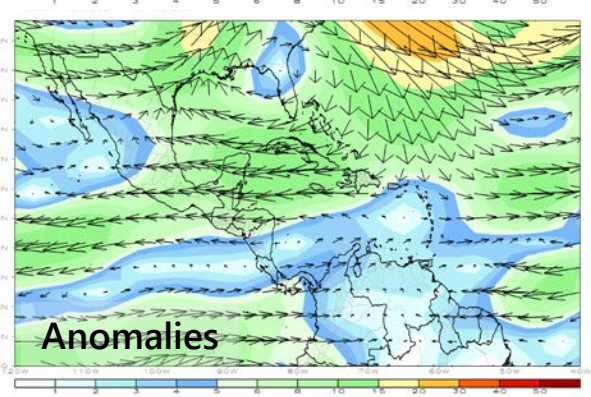
200 hPa



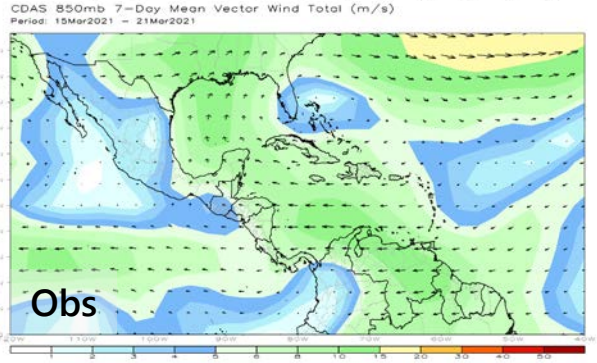


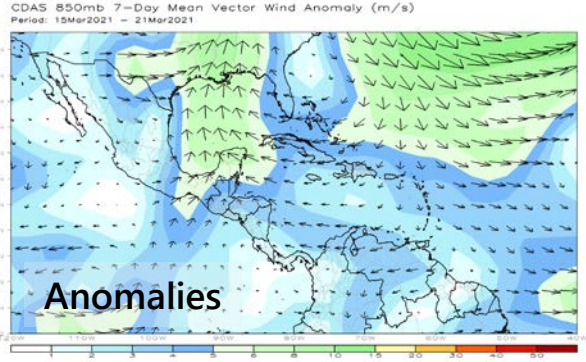
500 hPa



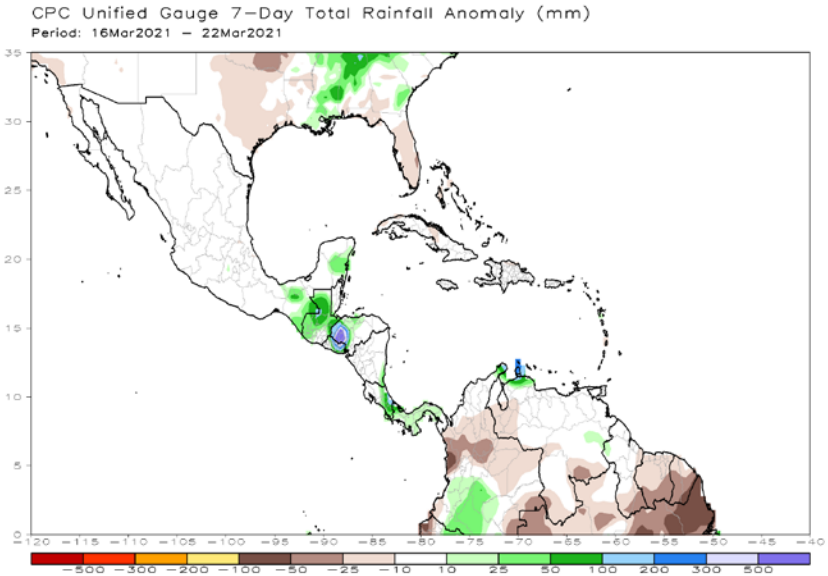


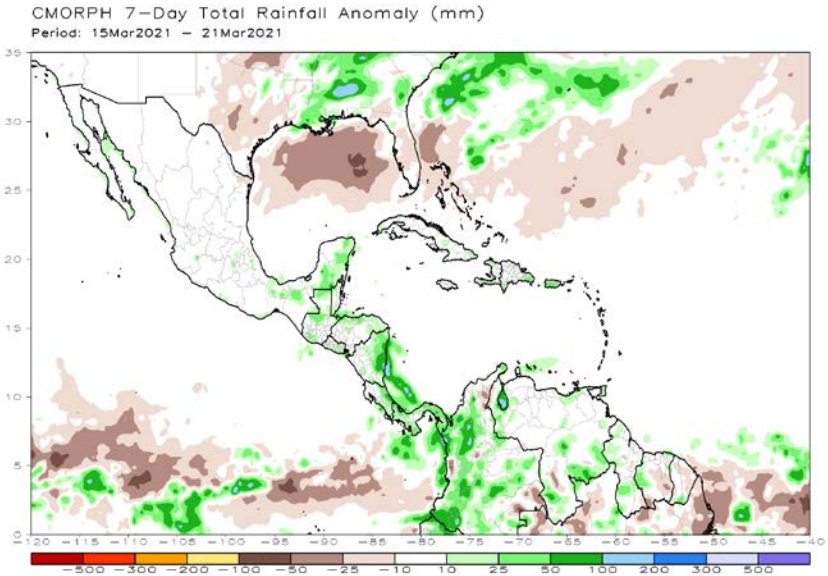
850 hPa





Rainfall

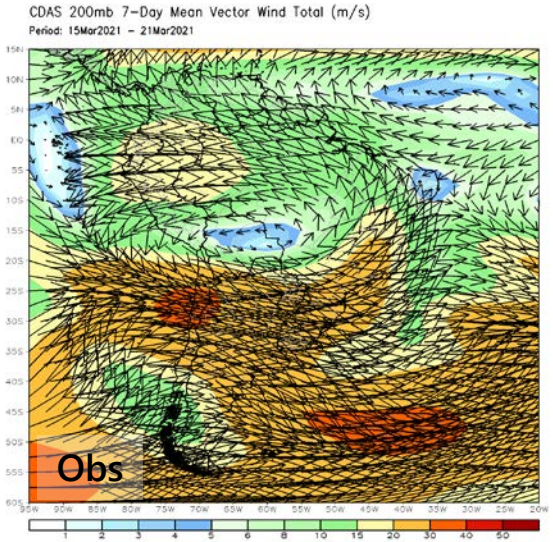


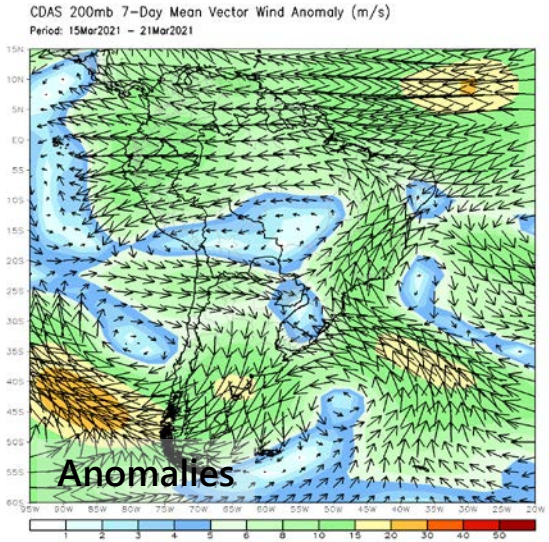


CMORPH: CPC Morphing Technique https://www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.html

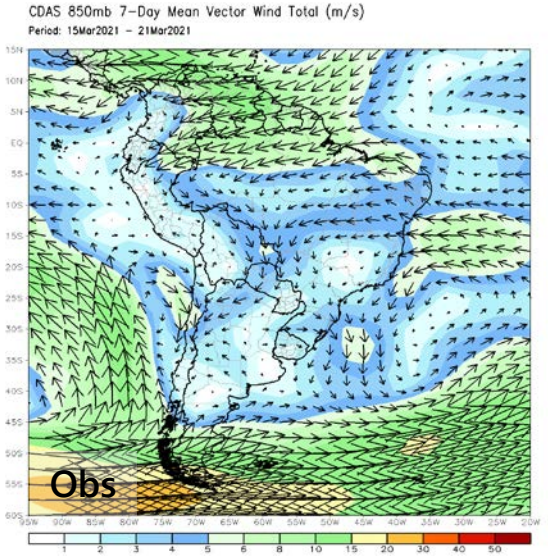
Last Week's Circulation and Rainfall – South America

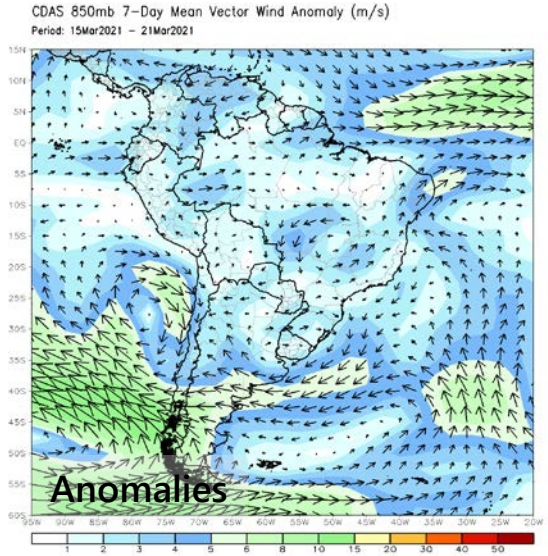
200 hPa



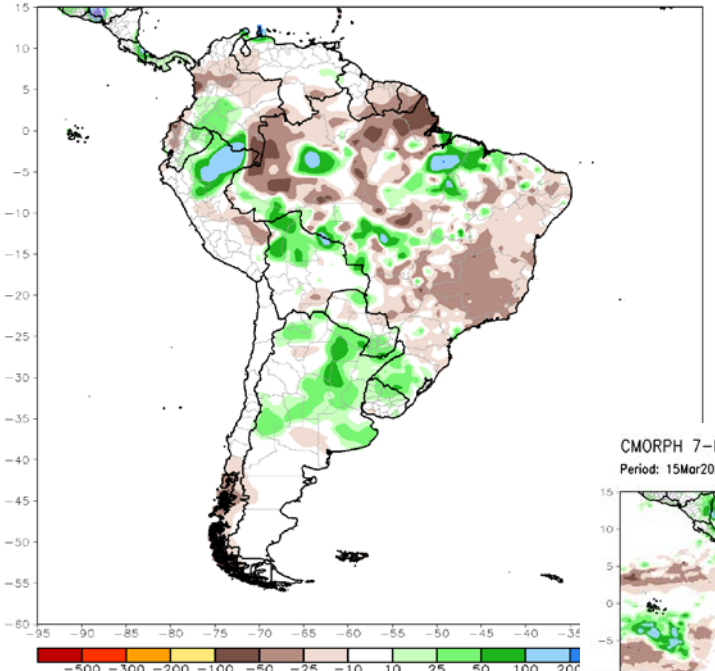


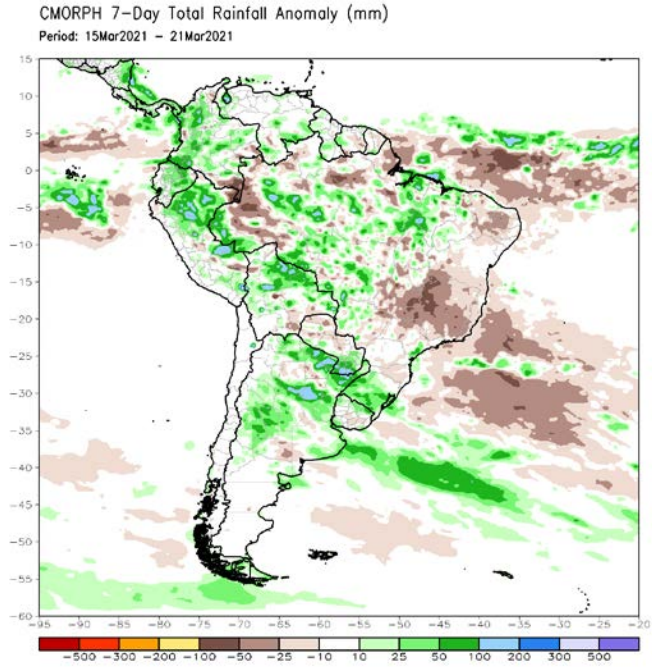
850 hPa





Rainfall





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¡Gracias!

Thank you!