



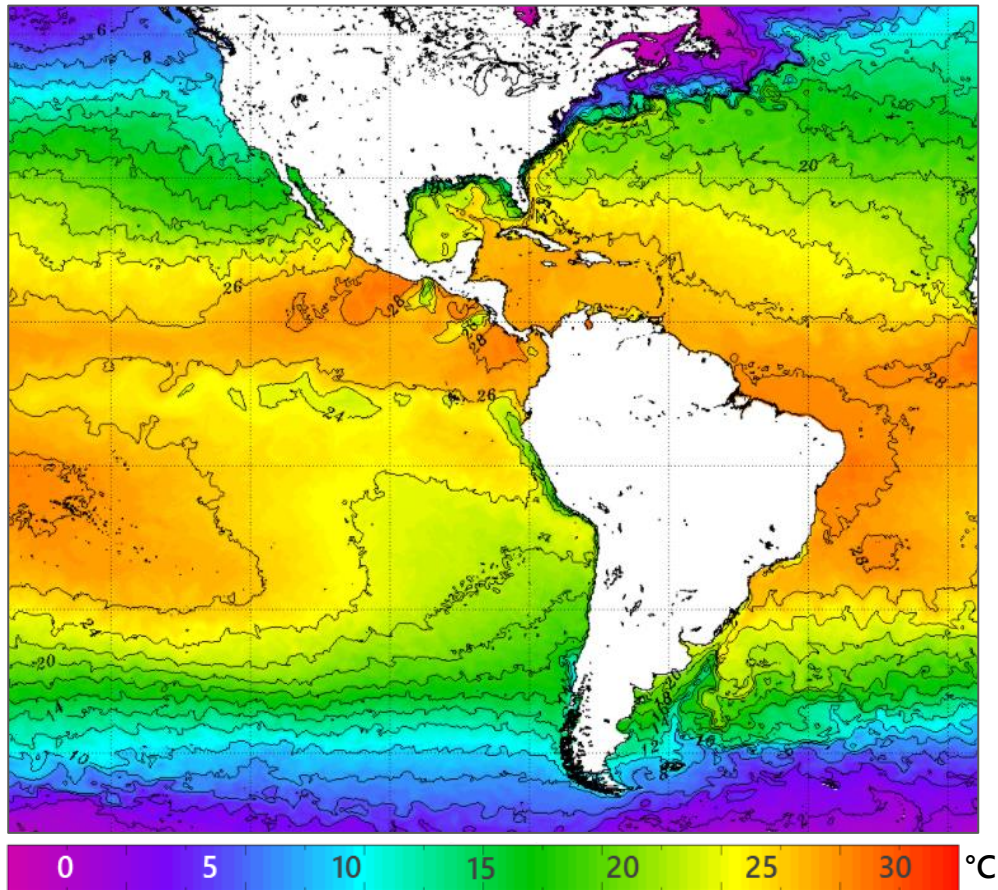
Monthly Regional Focus Group Session

Thursday 17 February 2022

<https://rammb2.cira.colostate.edu/training/rmtc/focusgroup/>

Sea Surface Temperatures

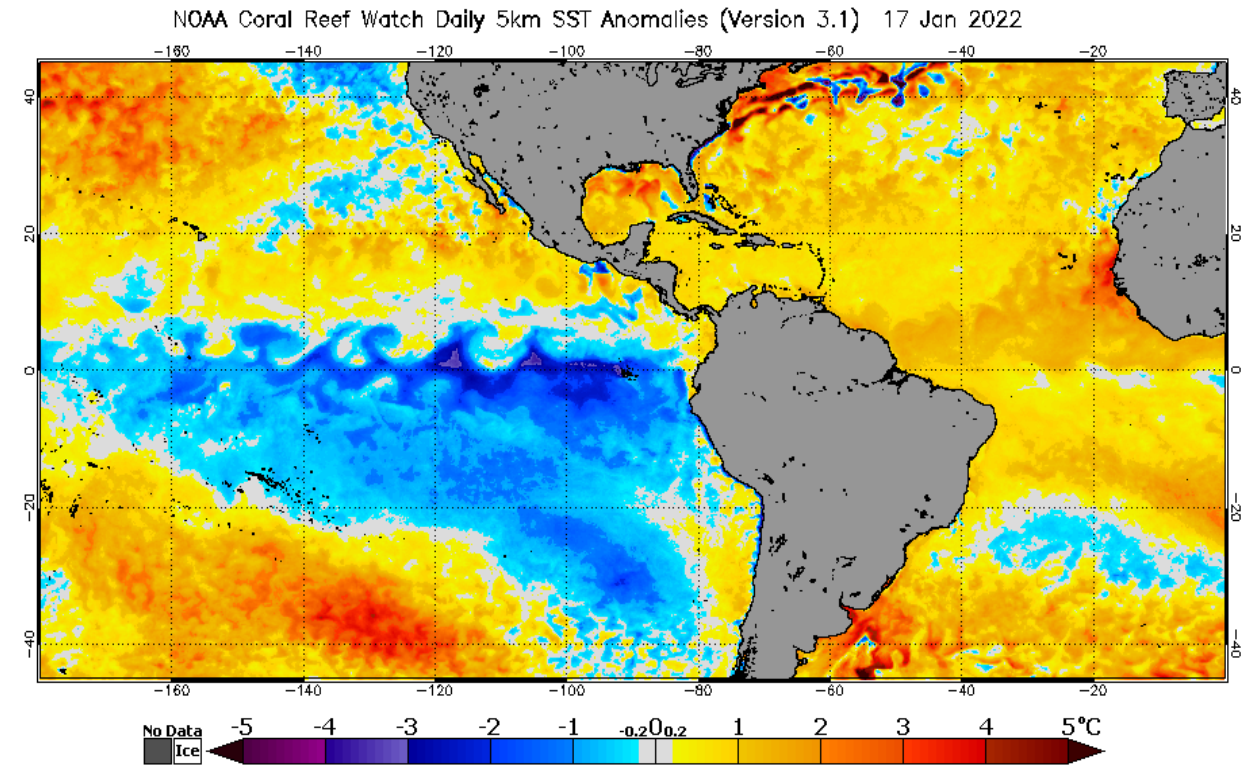
Daily SST Feb 15



NOAA OSPO

https://www.ospo.noaa.gov/data/sst/contour/global_small.c.gif

Anomaly Evolution



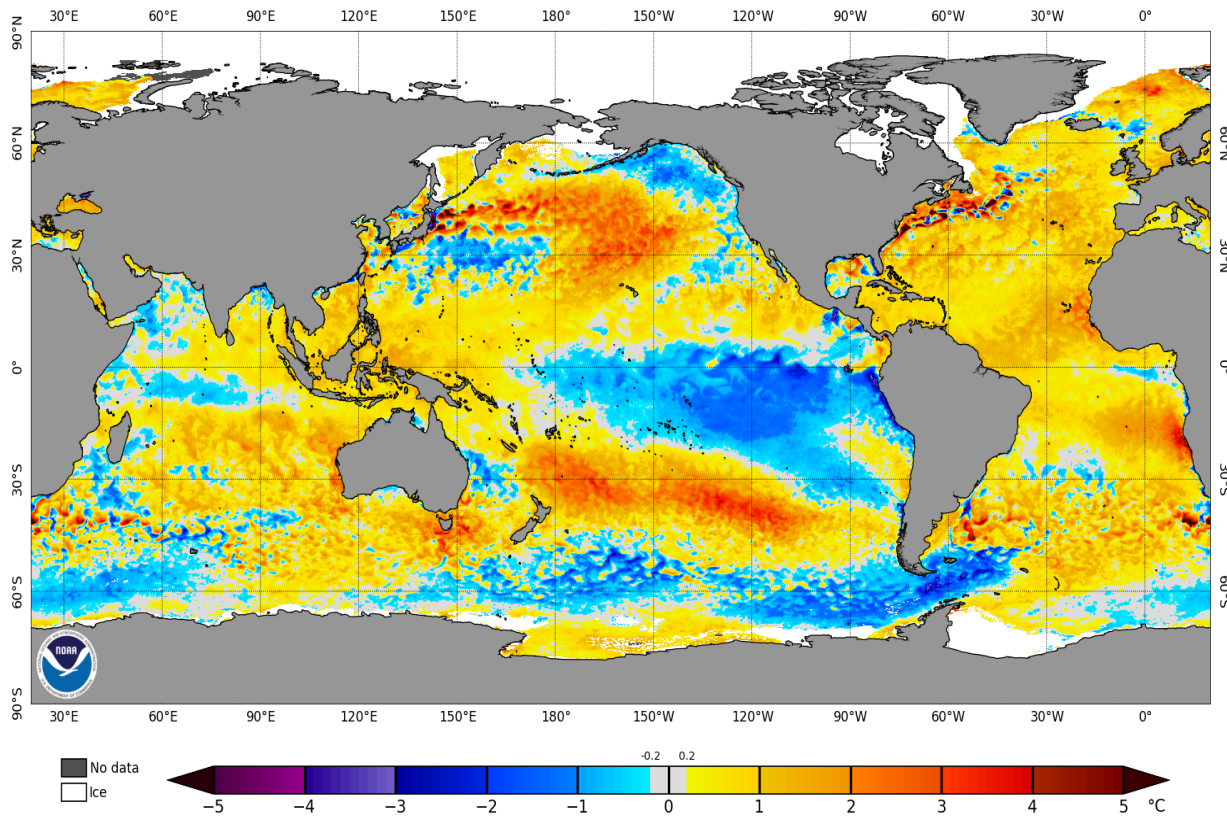
NOAA Coral Reef Watch

<https://coralreefwatch.noaa.gov/>

Are the anomalies deep?

Deep anomalies last longer, becoming useful for subseasonal forecasting.

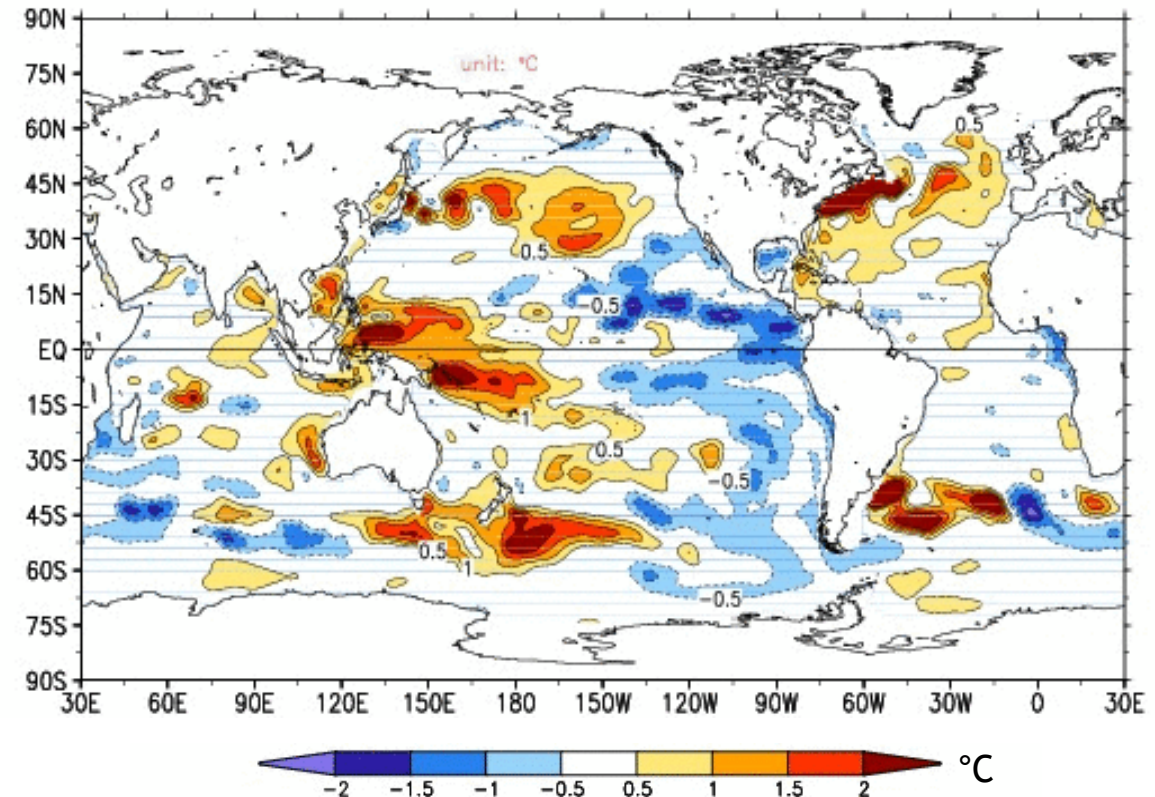
Feb 15 SST Anomalies



NOAA Coral Reef Watch

Source: https://coralreefwatch.noaa.gov/product/5km/index_5km_ssta.php

Feb 12 GODAS Top 300m Layer Anomaly

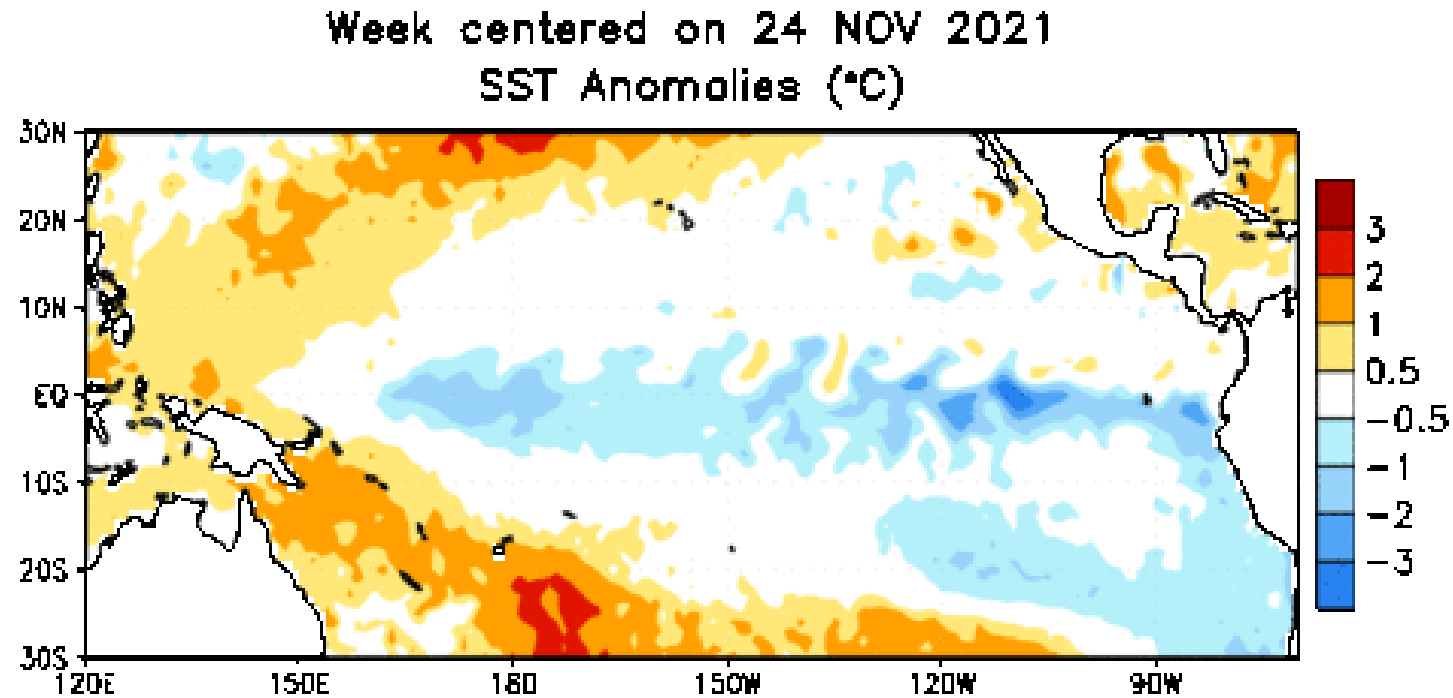


NOAA CPC

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

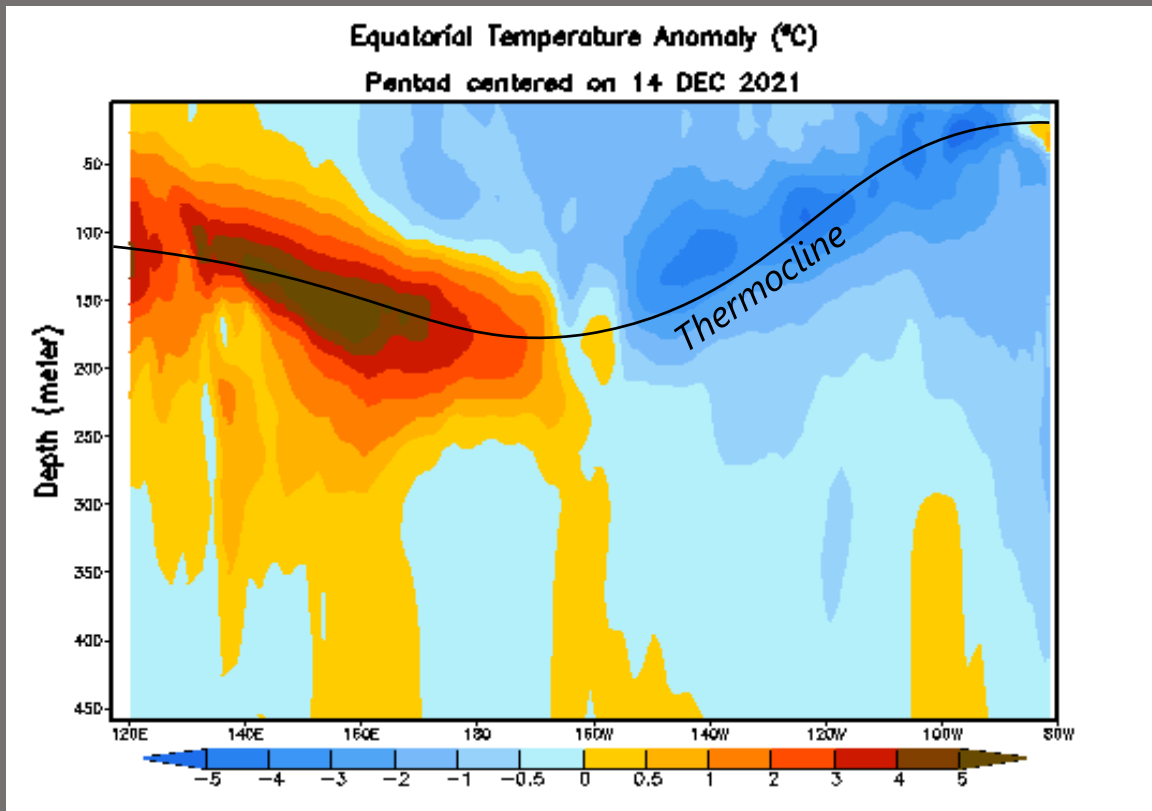
ENSO: La Niña

- ☯ La Niña is present.*
- ☯ Equatorial sea surface temperatures (SSTs) are below average across the east-central and eastern Pacific Ocean.
- ☯ The tropical Pacific atmosphere is consistent with La Niña.



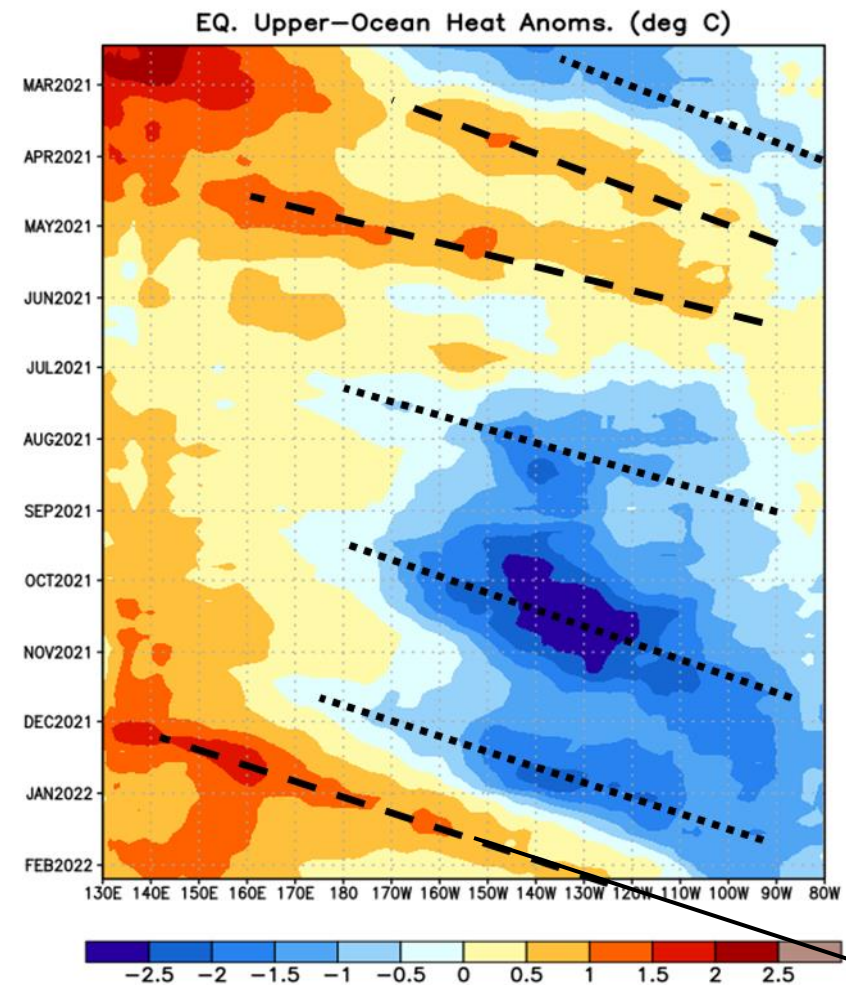
ENSO: Oceanic Kelvin Waves

Equatorial Pacific Temperature Anomaly Cross Section



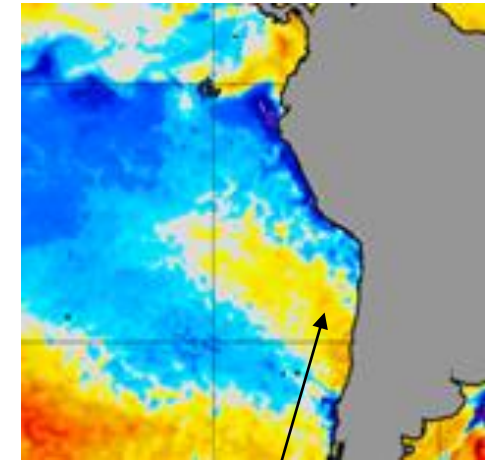
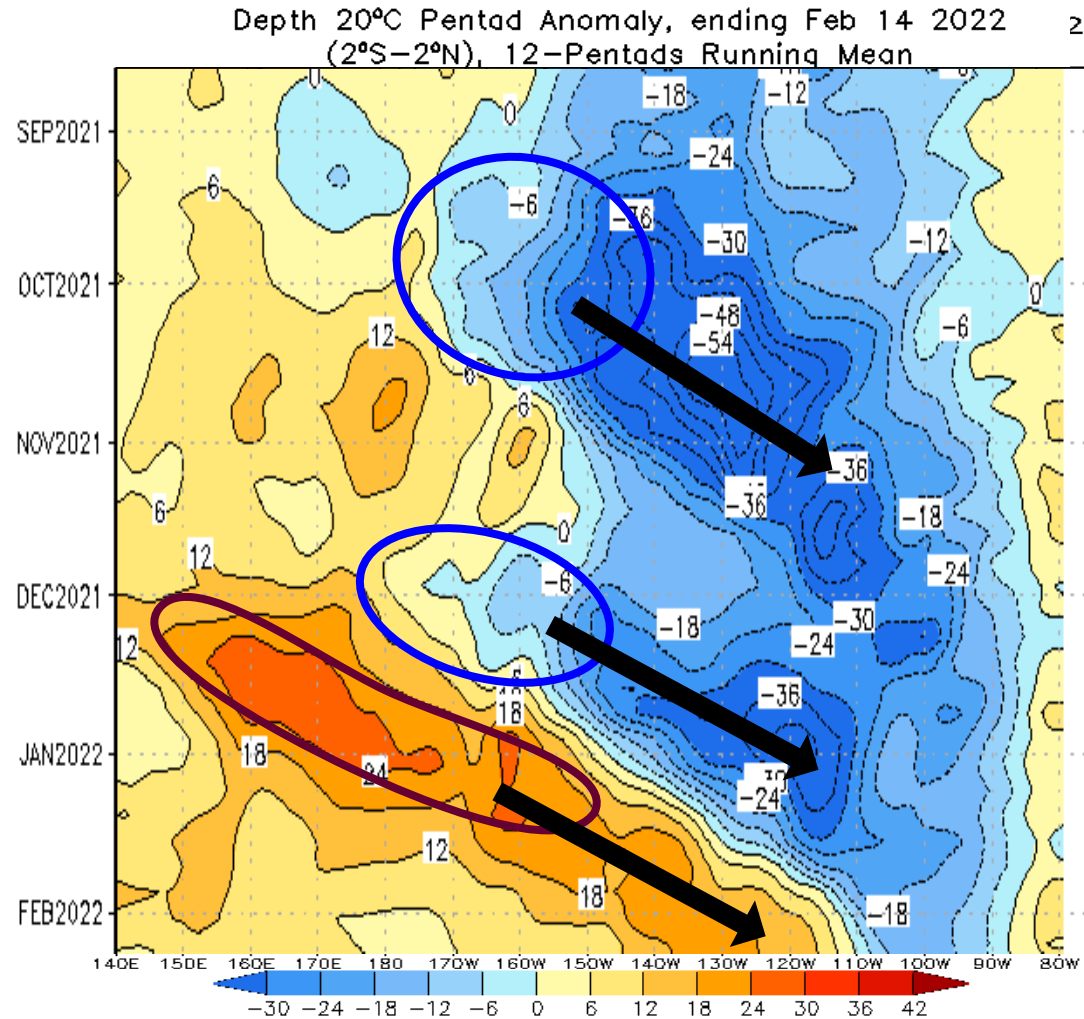
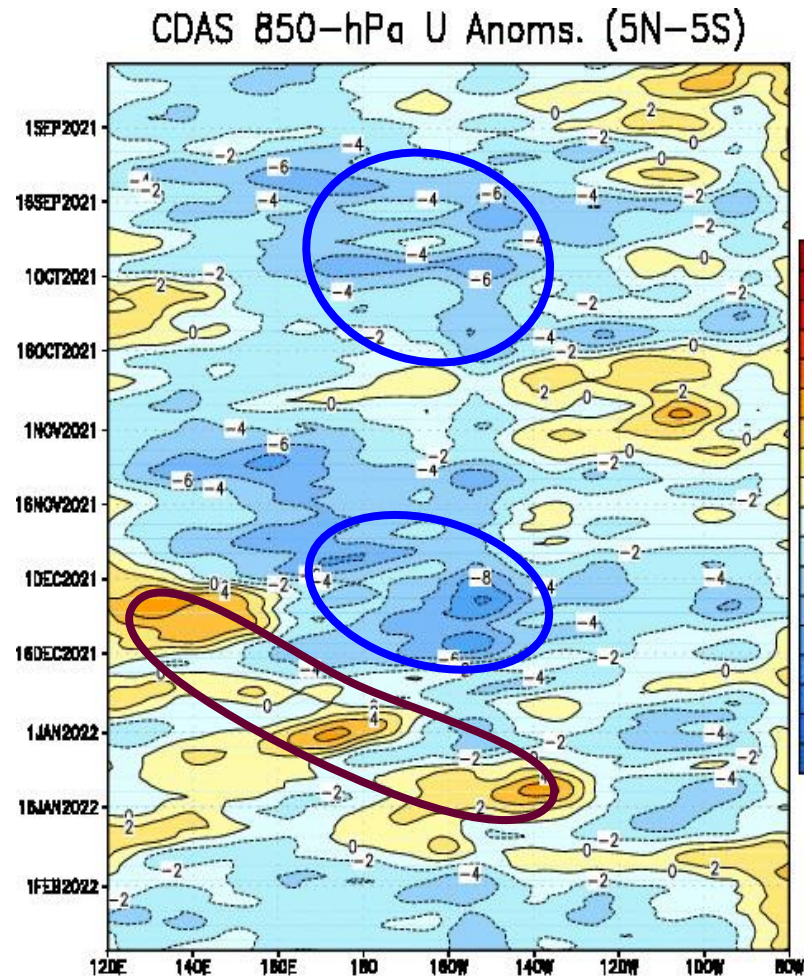
Source: CPC

Heat Content Hovmöller



Brief Warming in
South America by
Mid March.

What to monitor for warmings along the west coast of South America



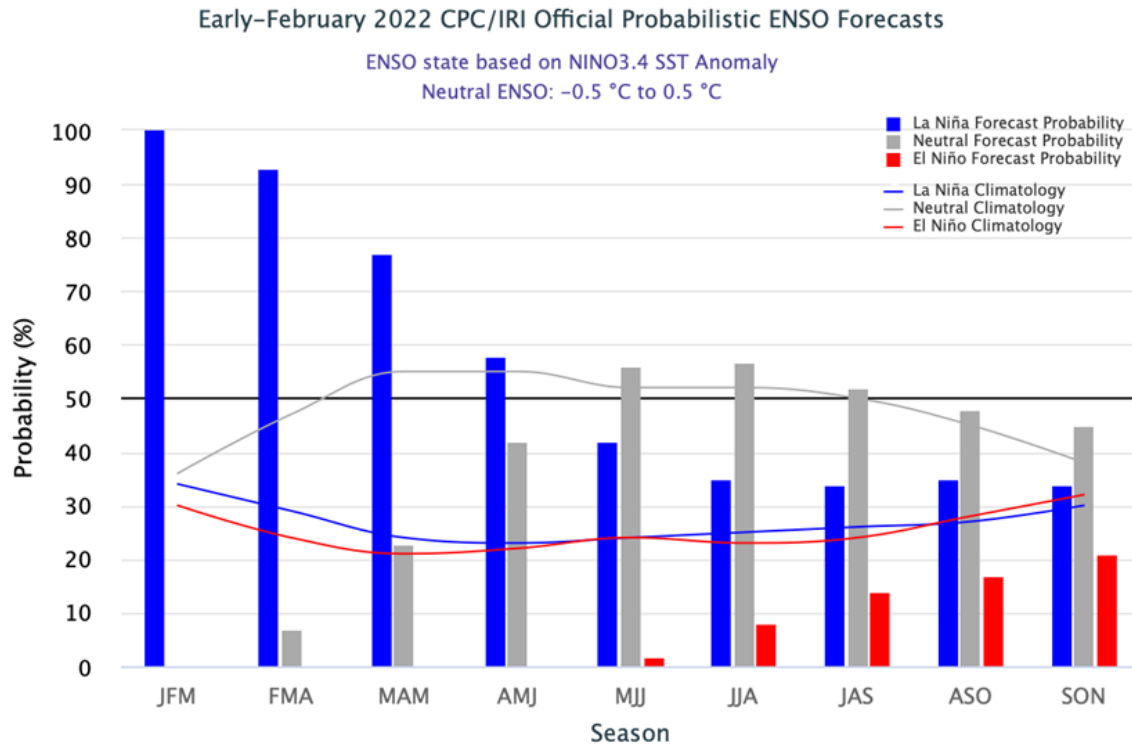
Warm Anomalies in northern Chile

- Bolivian High displaced to the SW
- NW flow anomalies at 850 and 925 hPa
- Upper divergent MJO

ENSO Outlook

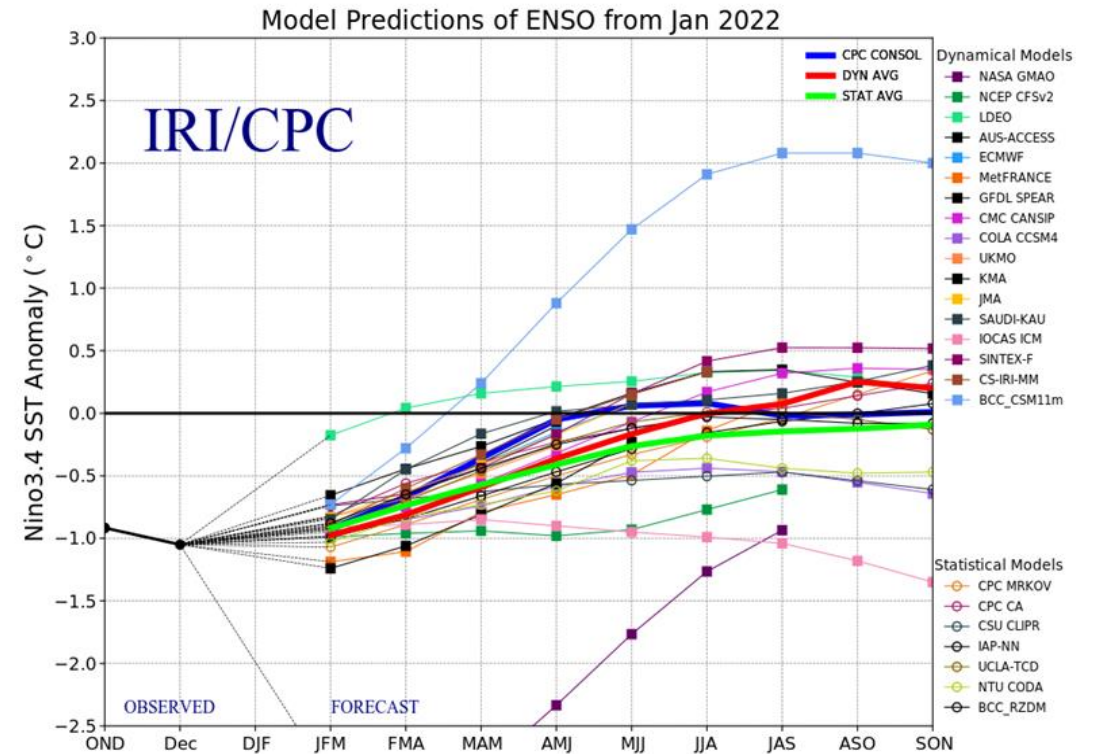
La Niña is likely to continue into the Northern Hemisphere spring (77% chance during March-May 2022) and then transition to ENSO-neutral (56% chance during May-July 2022).*

CPC/IRI Probabilistic Forecast



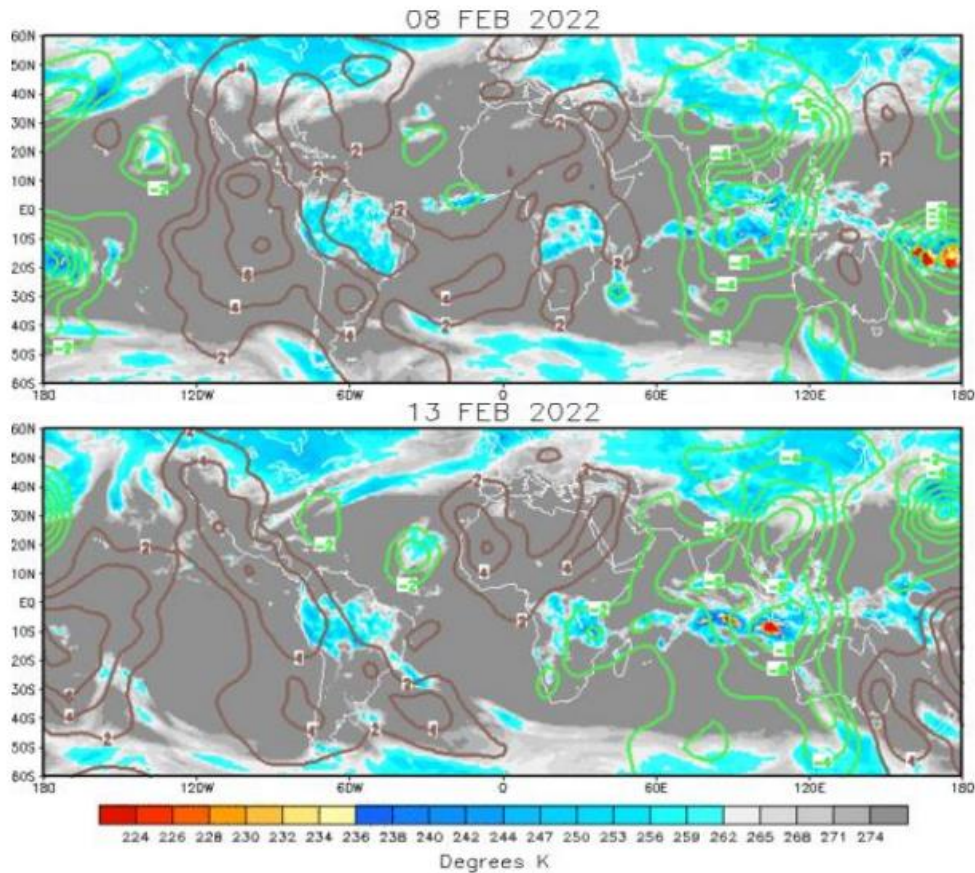
Source: CPC

IRI/CPC Dynamic Models

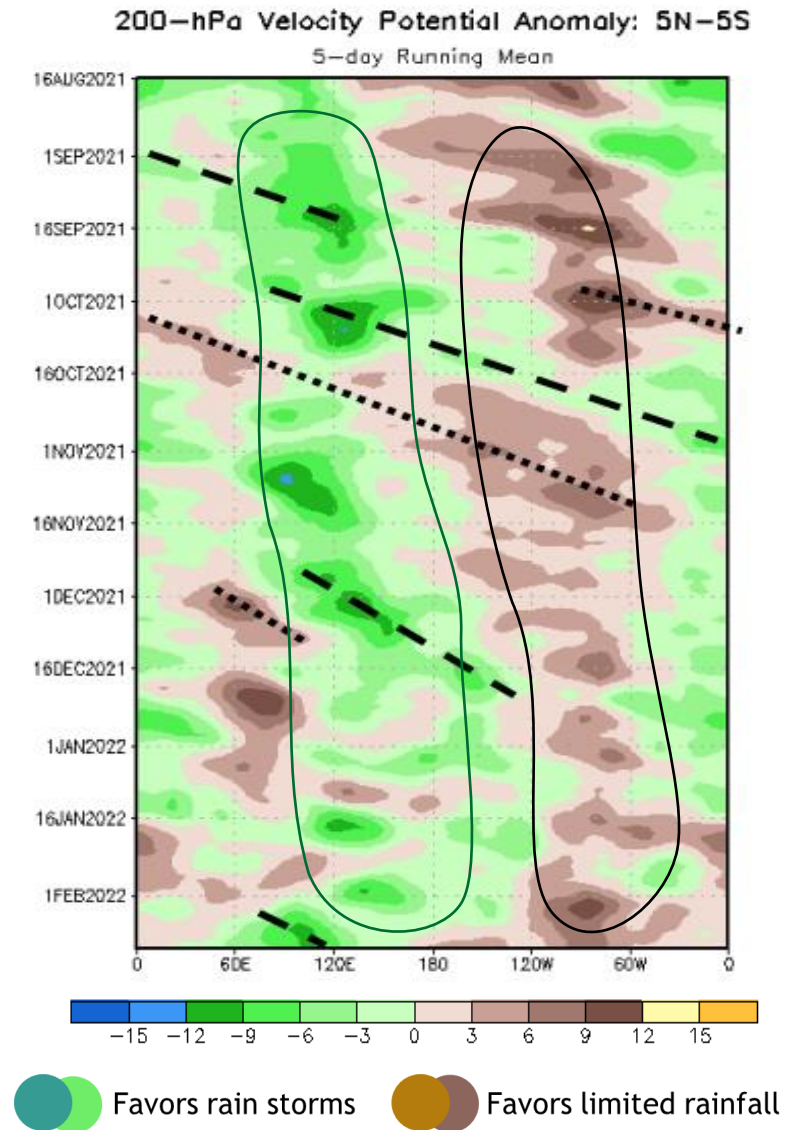


Madden-Julian Oscillation (MJO)

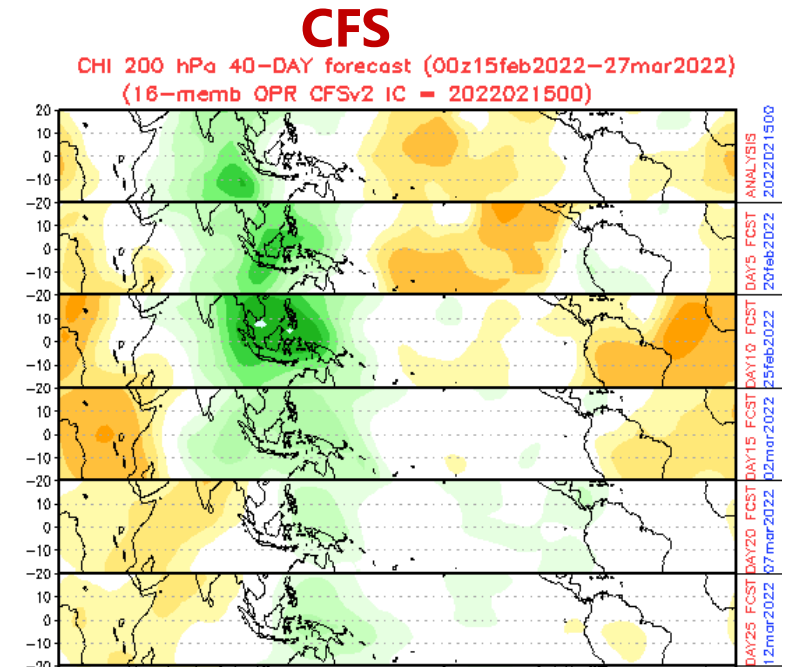
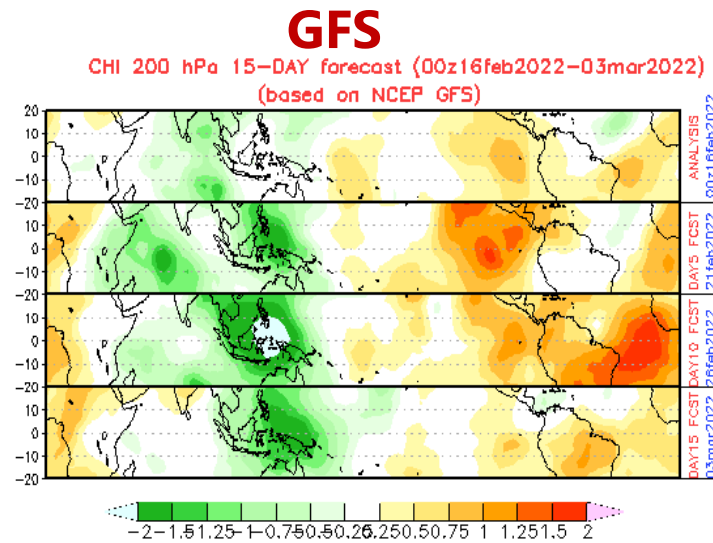
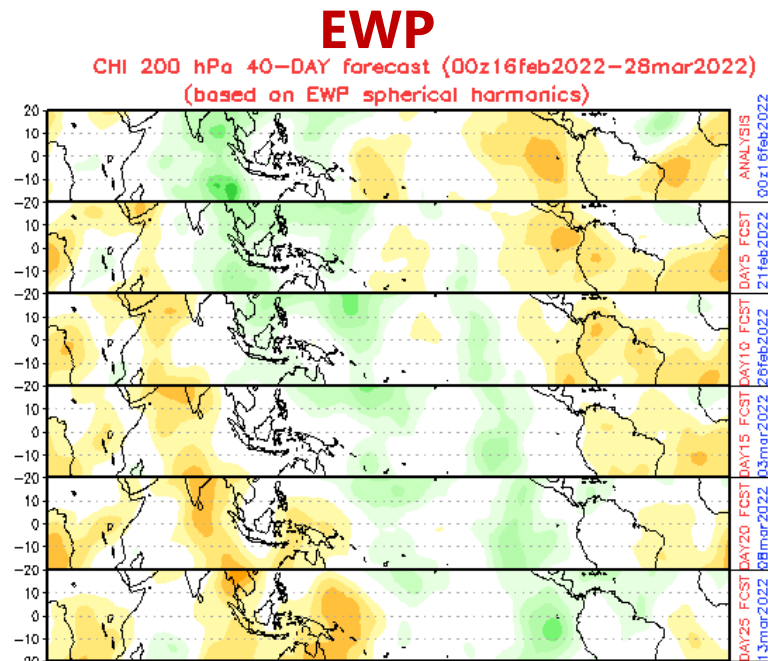
- Starting to organize into a 1-wave pattern
- Propagation is still ill-defined
- Low frequency anomalies reappearing: dry over the Americas



Source: CPC



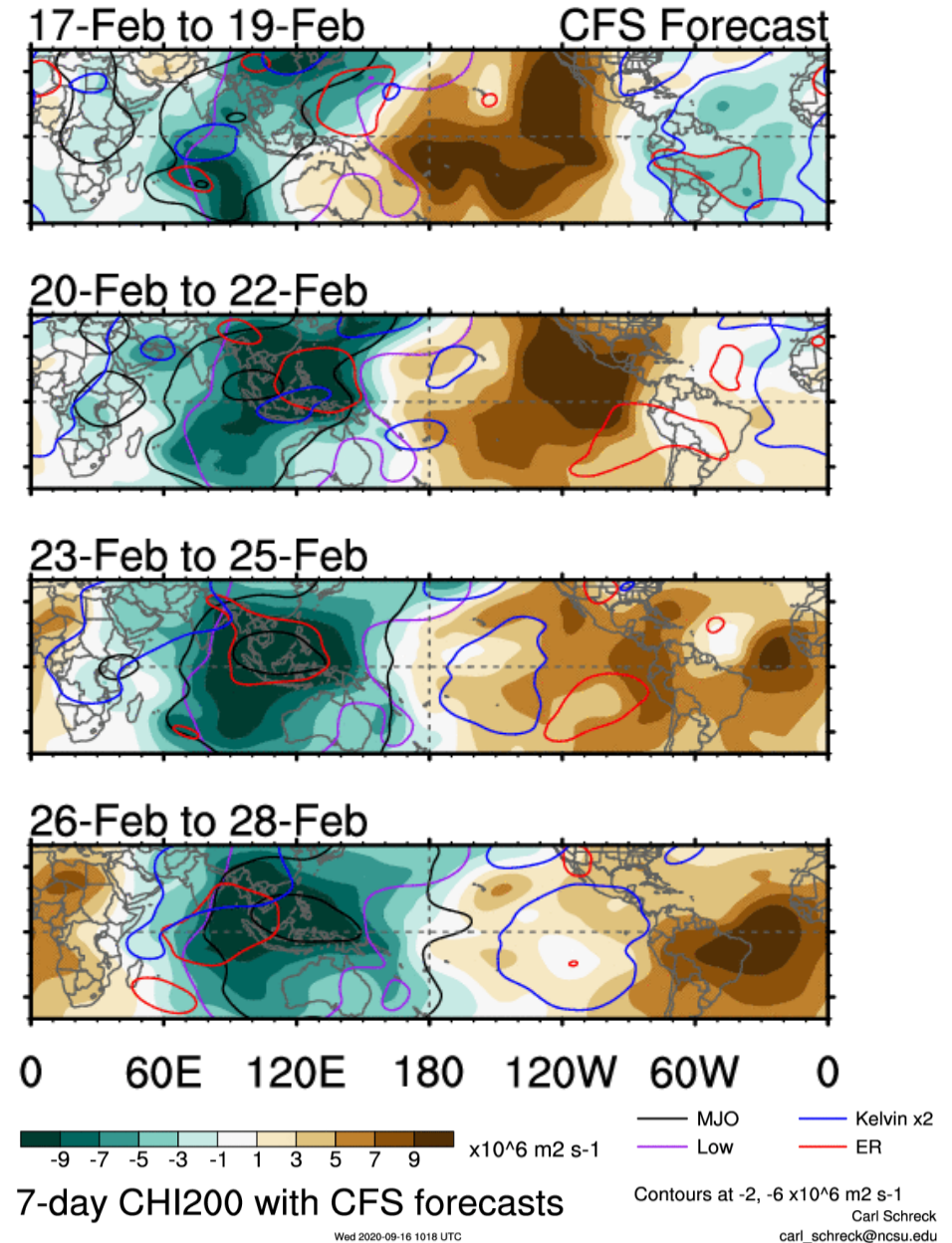
MJO Forecasts for the Americas



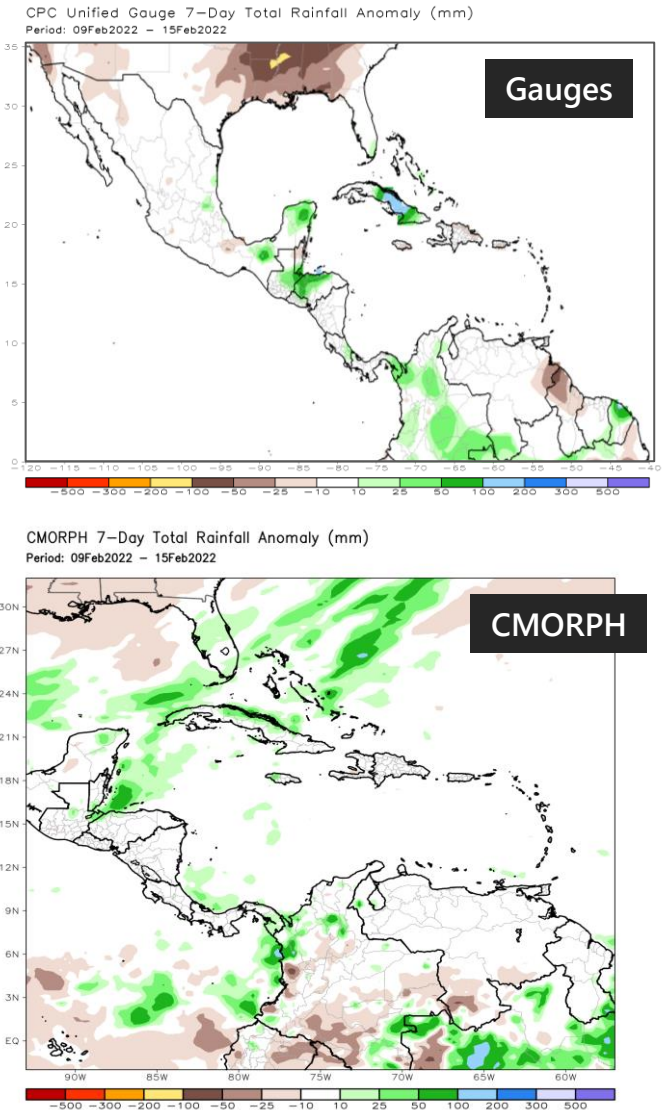
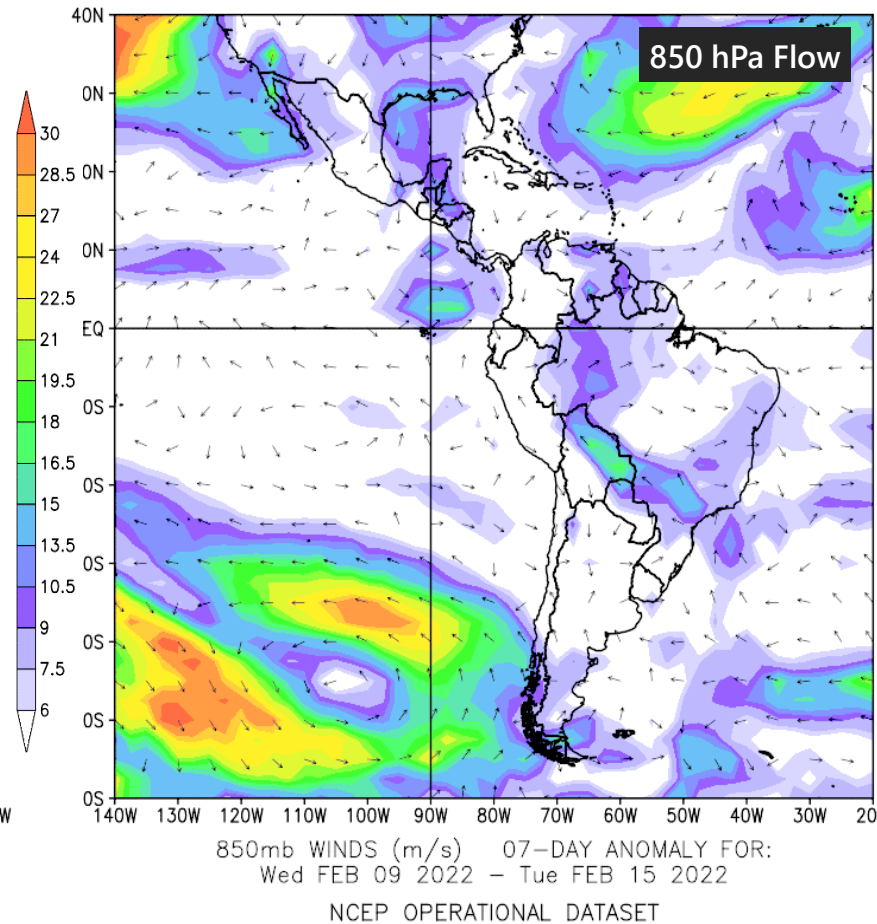
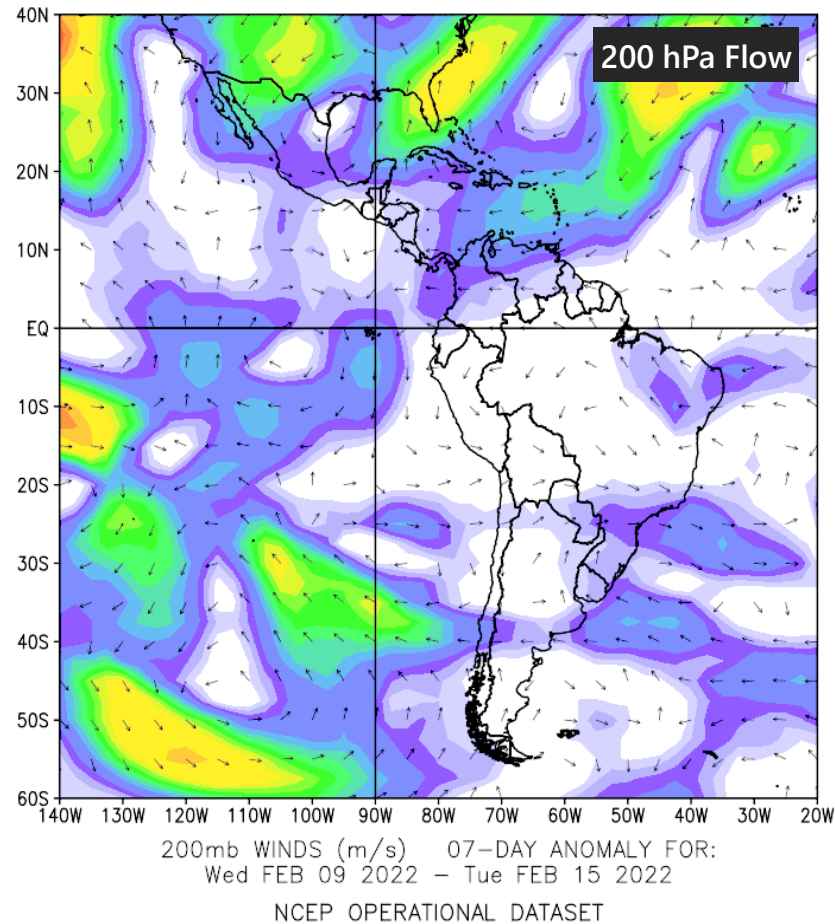
- Models agree better than last month.
- Upper convergent (dry) through early March
- Upper divergent (wetter) peaking near mid-March (potentially)

Tropospheric Equatorial Waves

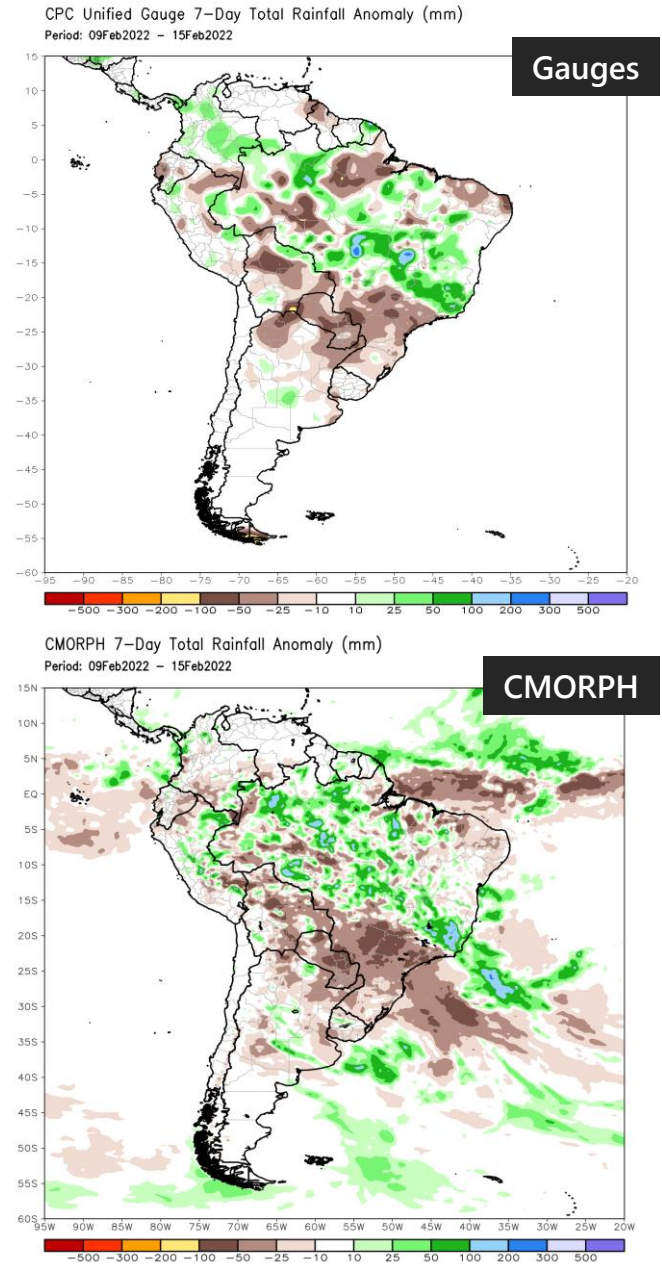
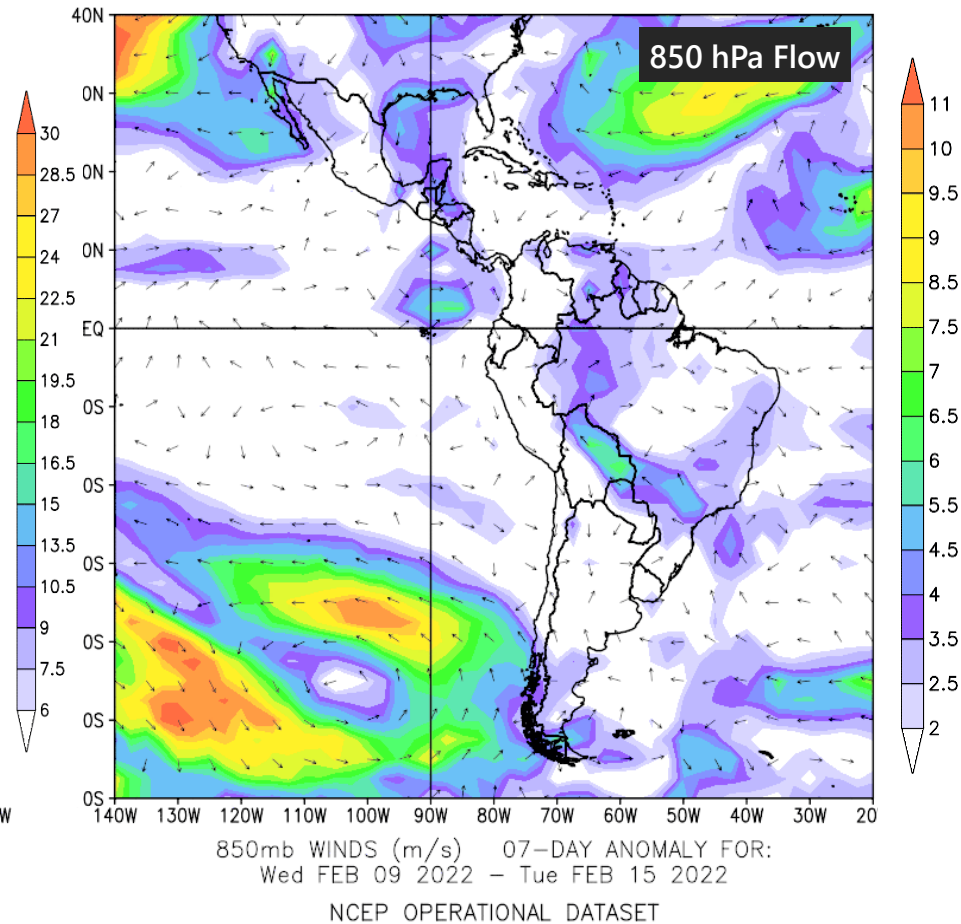
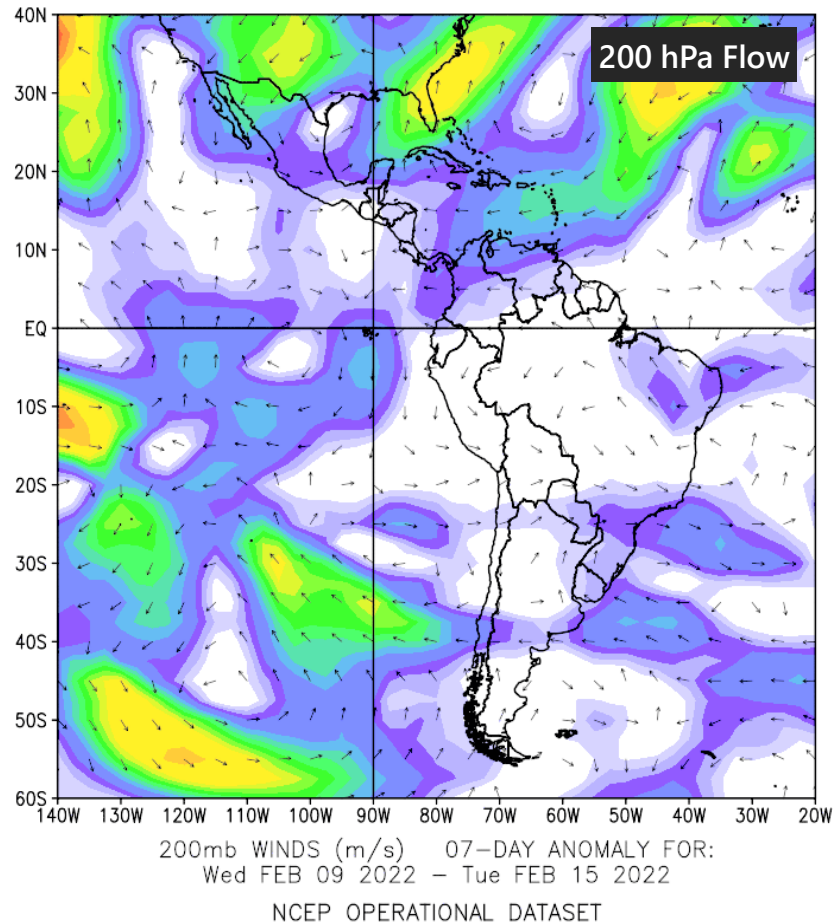
- Kelvin (wet) through Feb 19
 - Impacts mostly in South America
- Upper convergent (dry) last week of February
- Kelvin (wet) first week of March



Flow and Rainfall Anomalies, Last 7 Days



Flow and Rainfall Anomalies, Last 7 Days



¡Gracias! Thank you!

**Next session:
Wednesday 9 March at 16 UTC**

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