Monthly Regional Focus Group Session

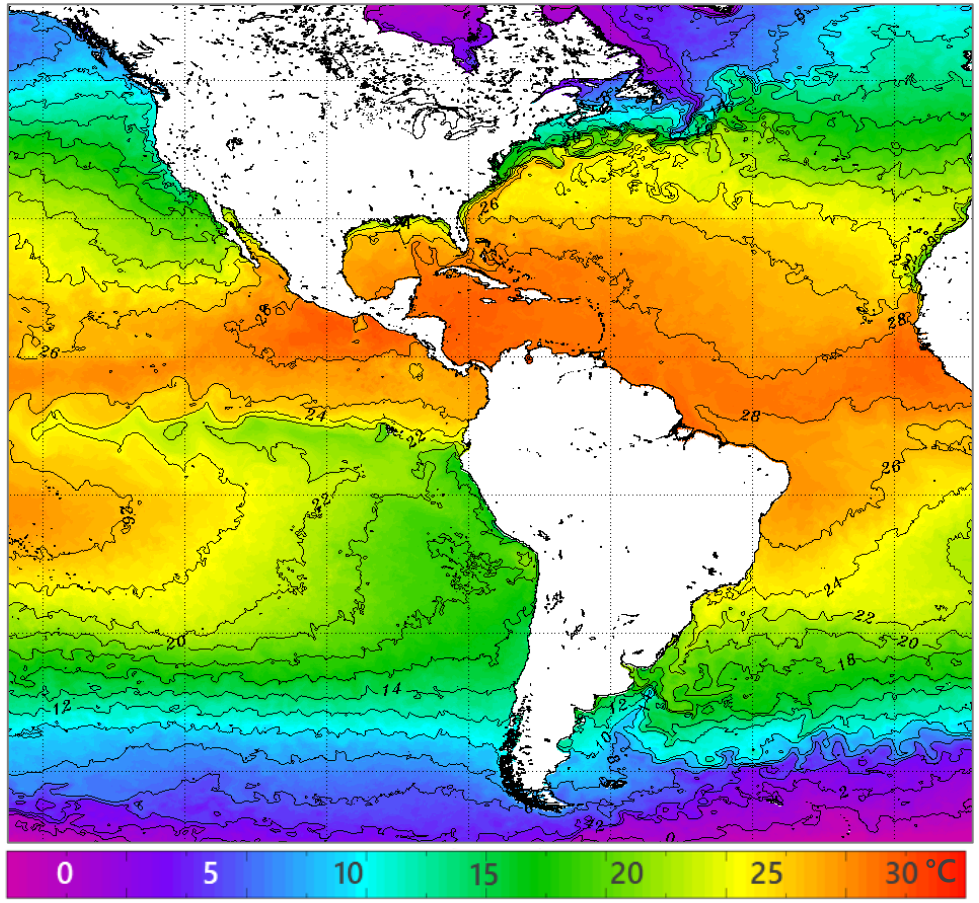
Wednesday 16 November 2022 at 16 UTC

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

Sea Surface Temperatures (SST)

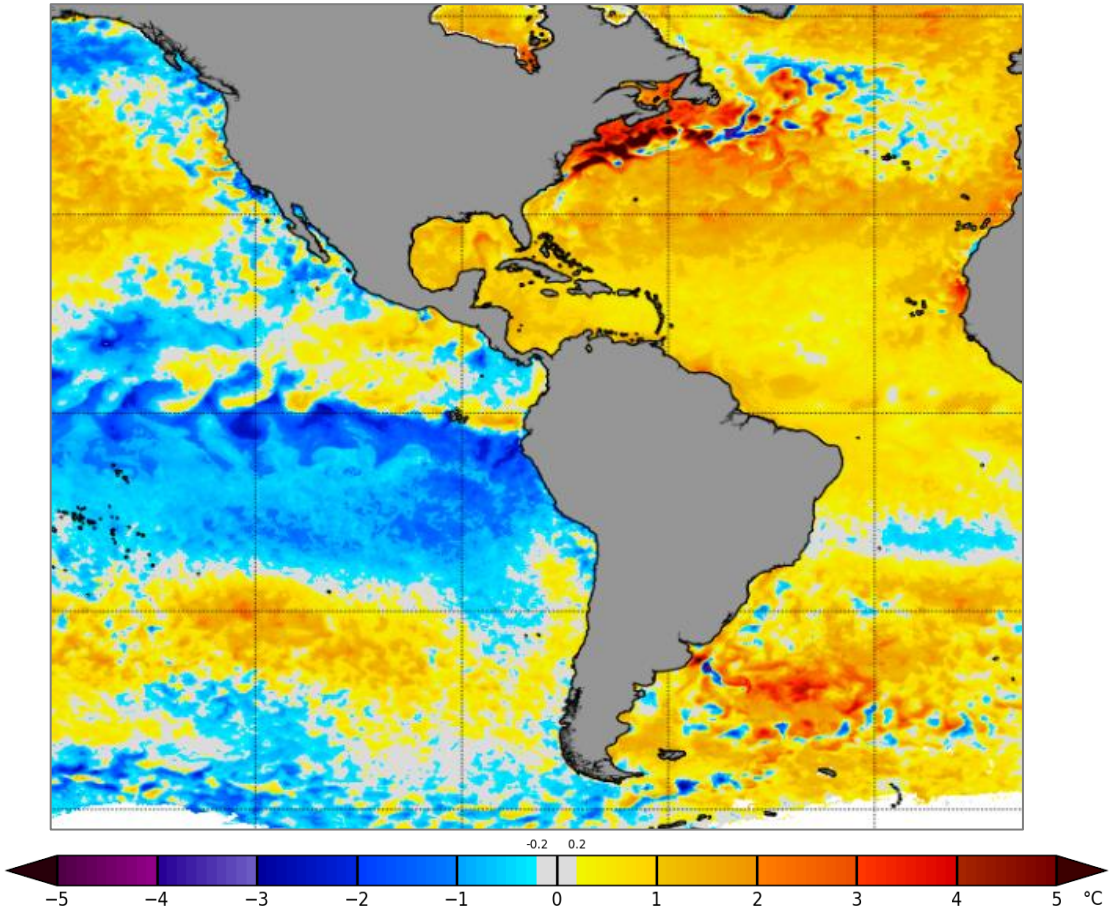
November 14th

SST



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

Anomaly

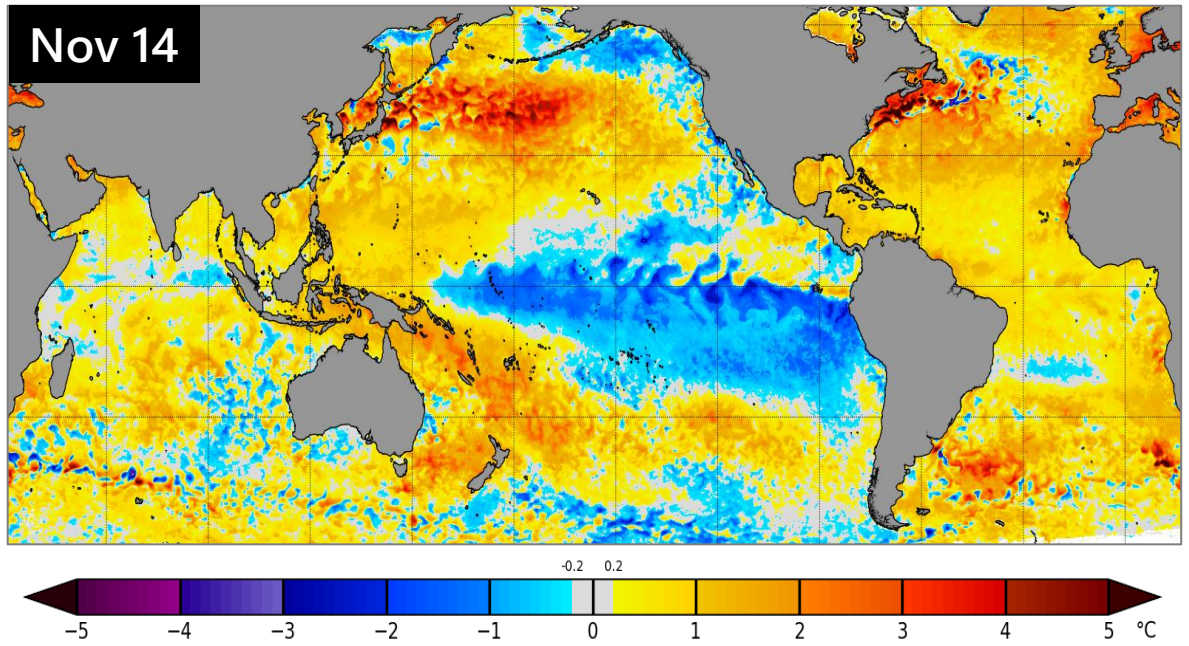


NOAA Coral Reef Watch
https://coralreefwatch.noaa.gov/product/5km/index_5km_ssta.php

Sea Temperature Anomalies in top layer

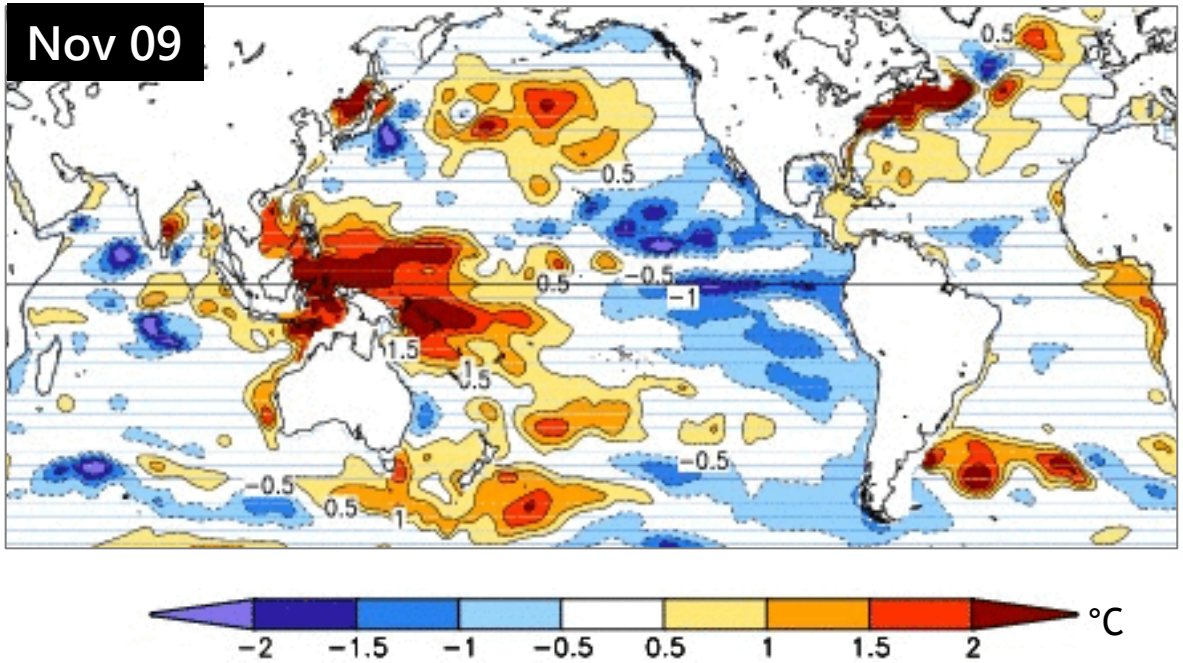
DEEP ANOMALIES LAST LONGER, THUS USEFUL FOR SUBSEASONAL FORECASTING

Surface Anomaly



NOAA Coral Reef Watch
https://coralreefwatch.noaa.gov/product/5km/index_5km_ssta.php

Top 300m-Layer Anomaly (GODAS)

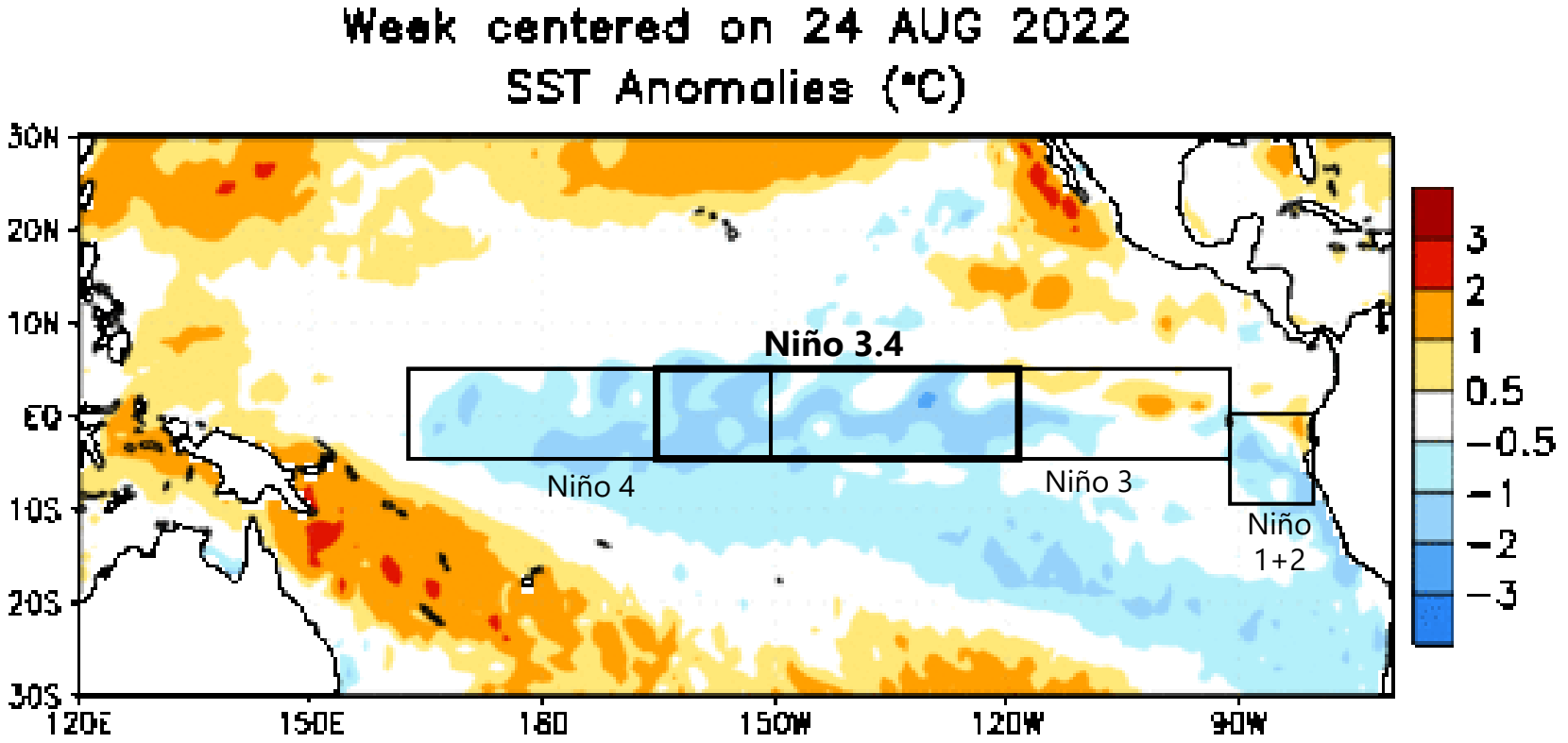


NOAA CPC
Source: CPC GODAS, https://www.cpc.ncep.noaa.gov/products/GODAS/

ENSO:

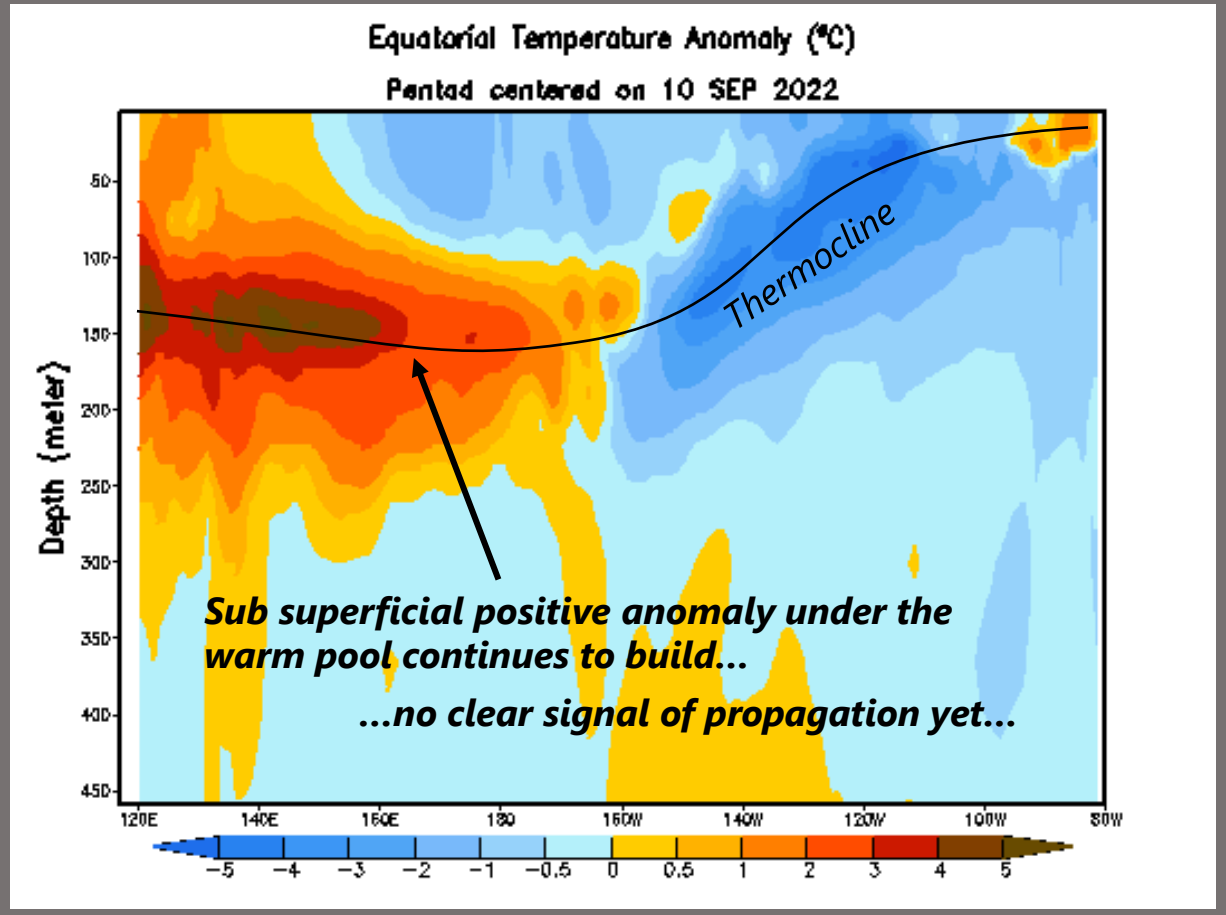
La Niña
(no changes since April)

- La Niña is present.*
- Equatorial SSTs are below average across most of the Pacific Ocean.
- The tropical Pacific atmosphere is consistent with La Niña.



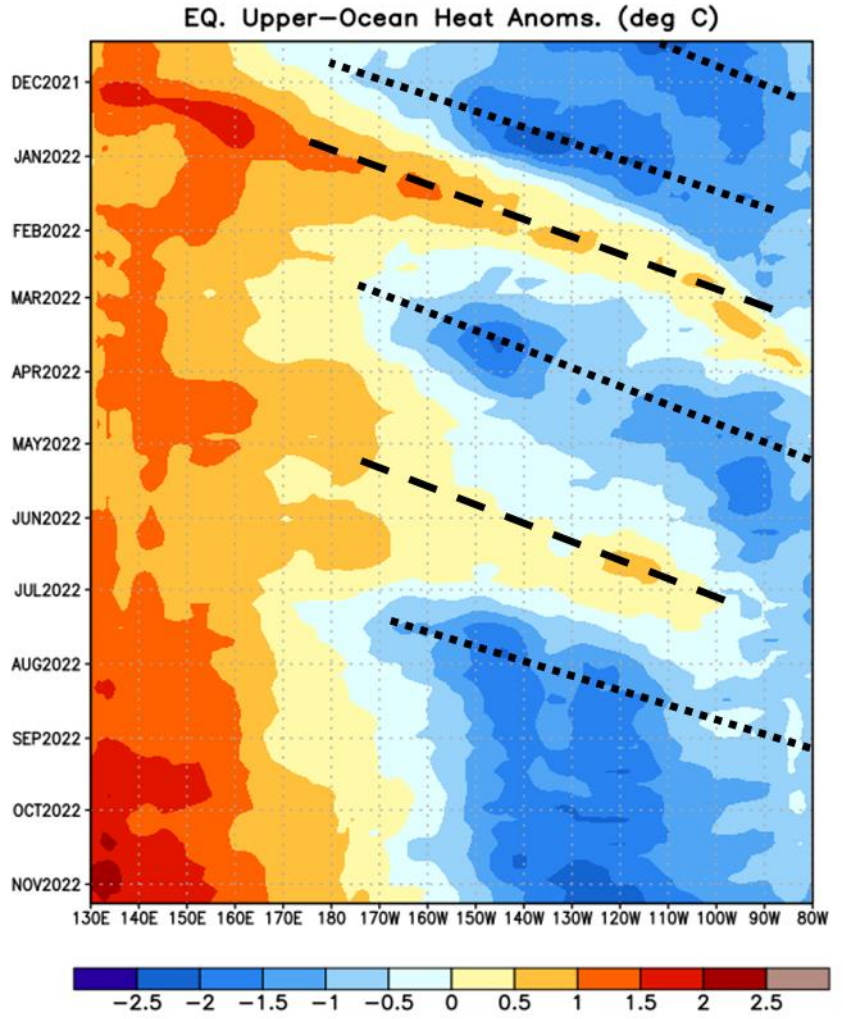
ENSO: Oceanic Kelvin Waves

Equatorial Pacific Temperature Anomaly Cross Section



Source: CPC

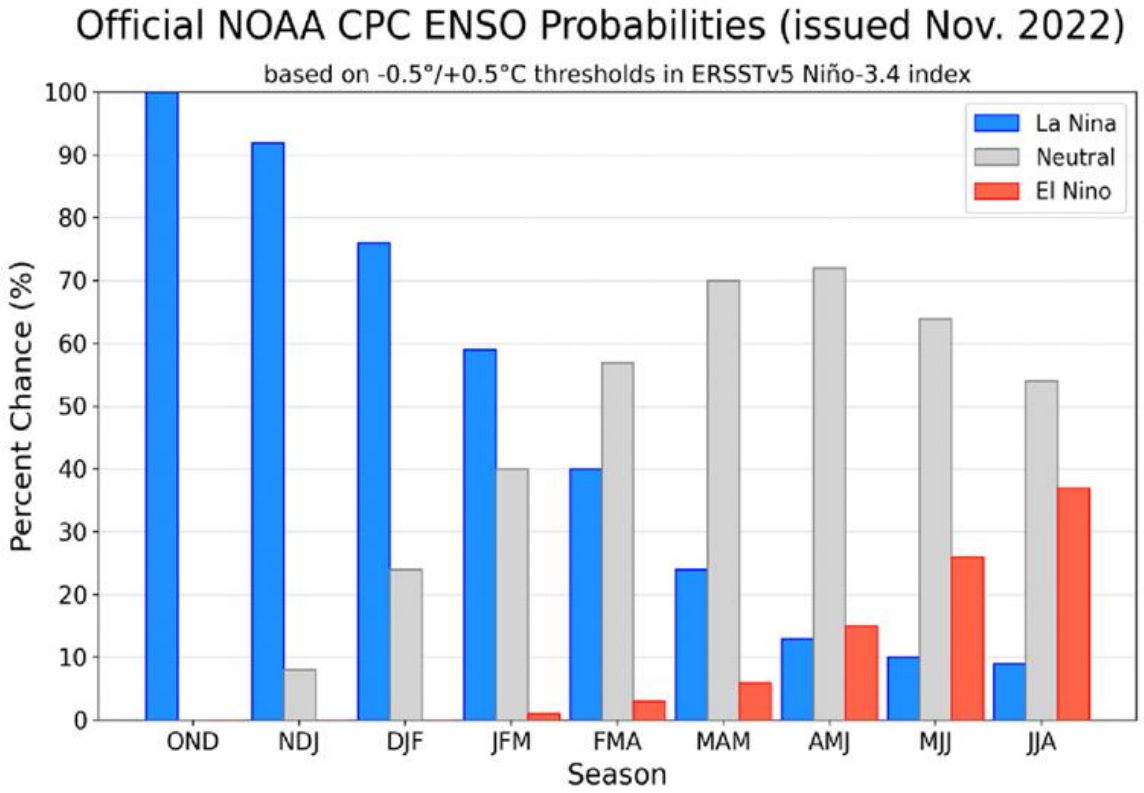
Heat Content Anomaly Hovmöller



ENSO Outlook

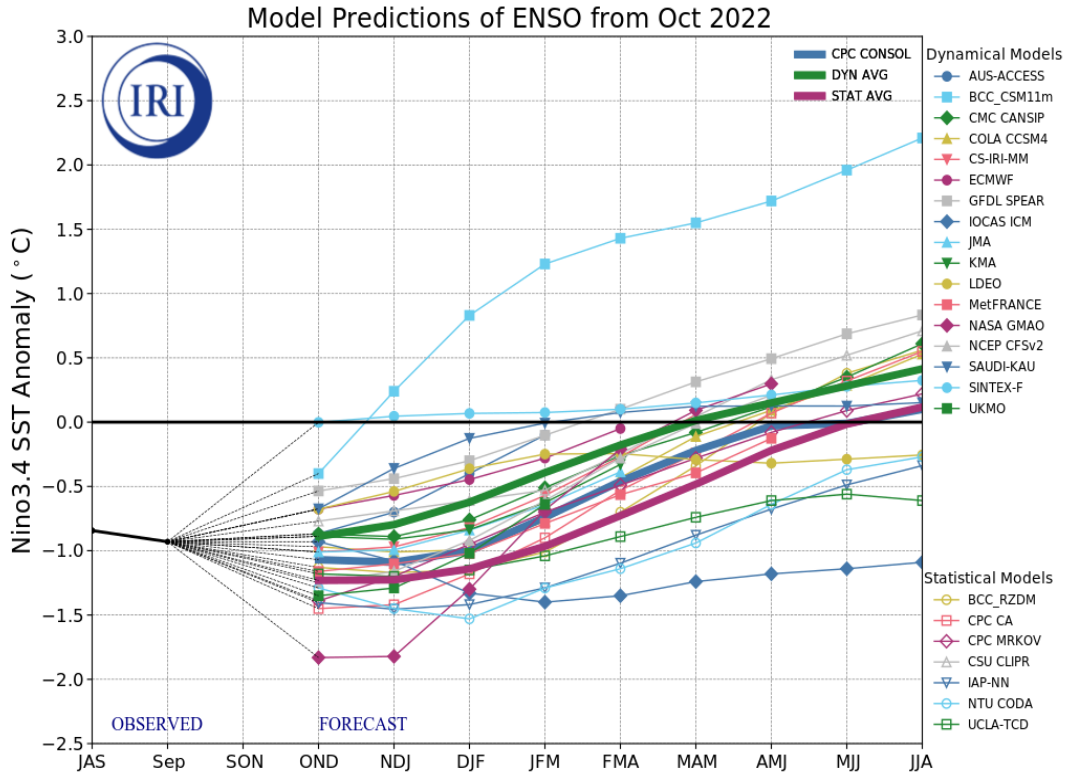
There is a 76% chance of La Niña during the Northern Hemisphere winter (December-February) 2022-23, with a transition to ENSO-neutral favored in February-April 2023 (57% chance).*

CPC Probabilistic Forecast



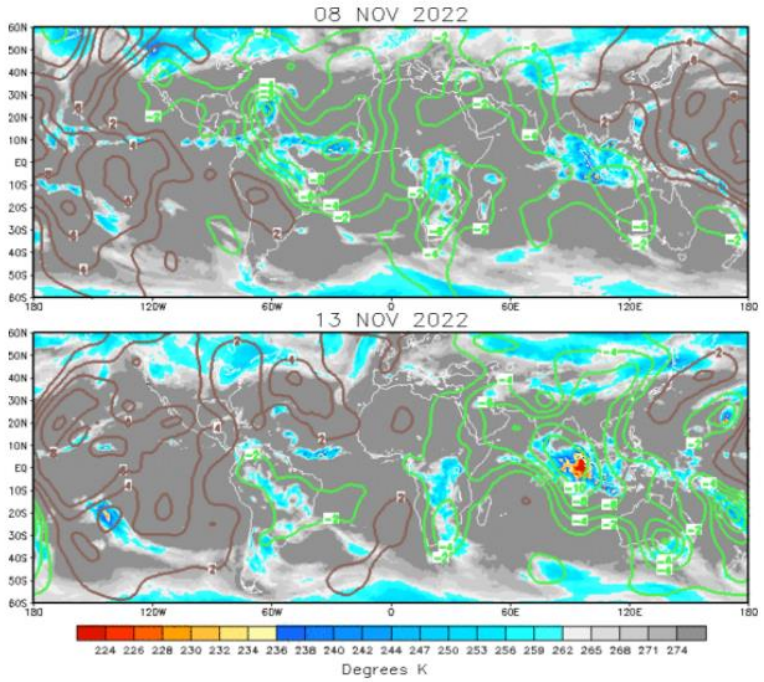
Source: CPC

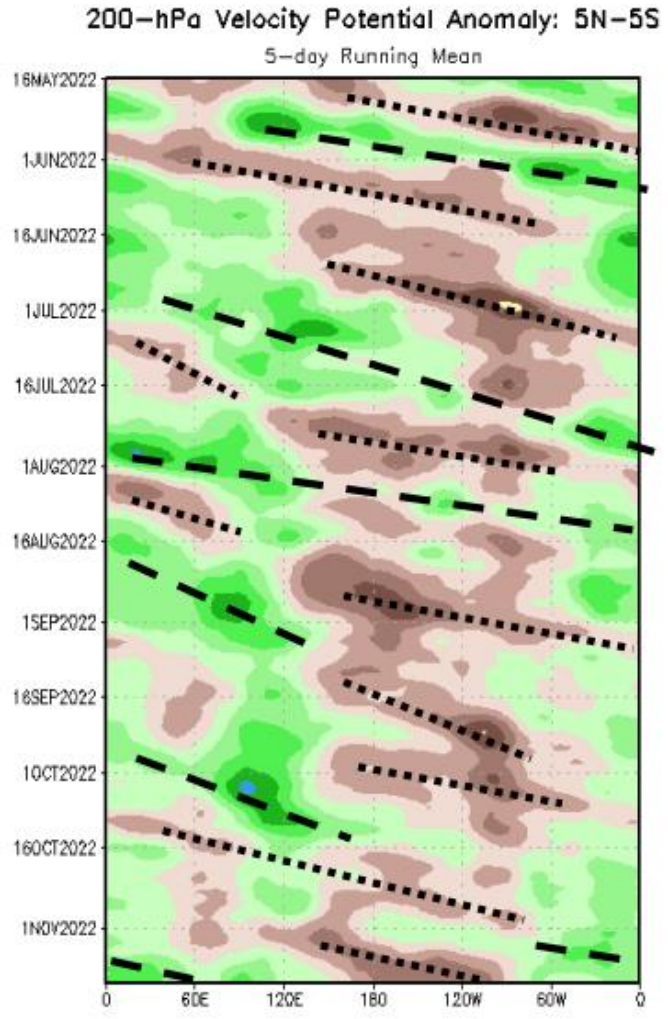
IRI/CPC Dynamic Models



Madden-Julian Oscillation (MJO)

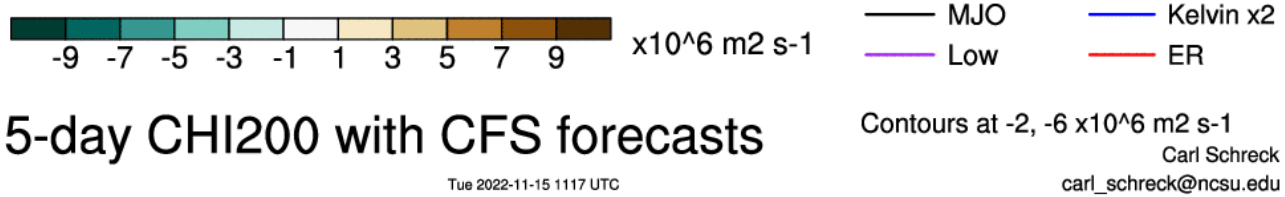
- The MJO is organizing after a period of disorganization.
- Closer to Wave-1 mode. Upper convergent region (dry) is moving into/across the Americas this week.
- Upper divergent in the Indian Ocean, likely to arrive in late November/early December.

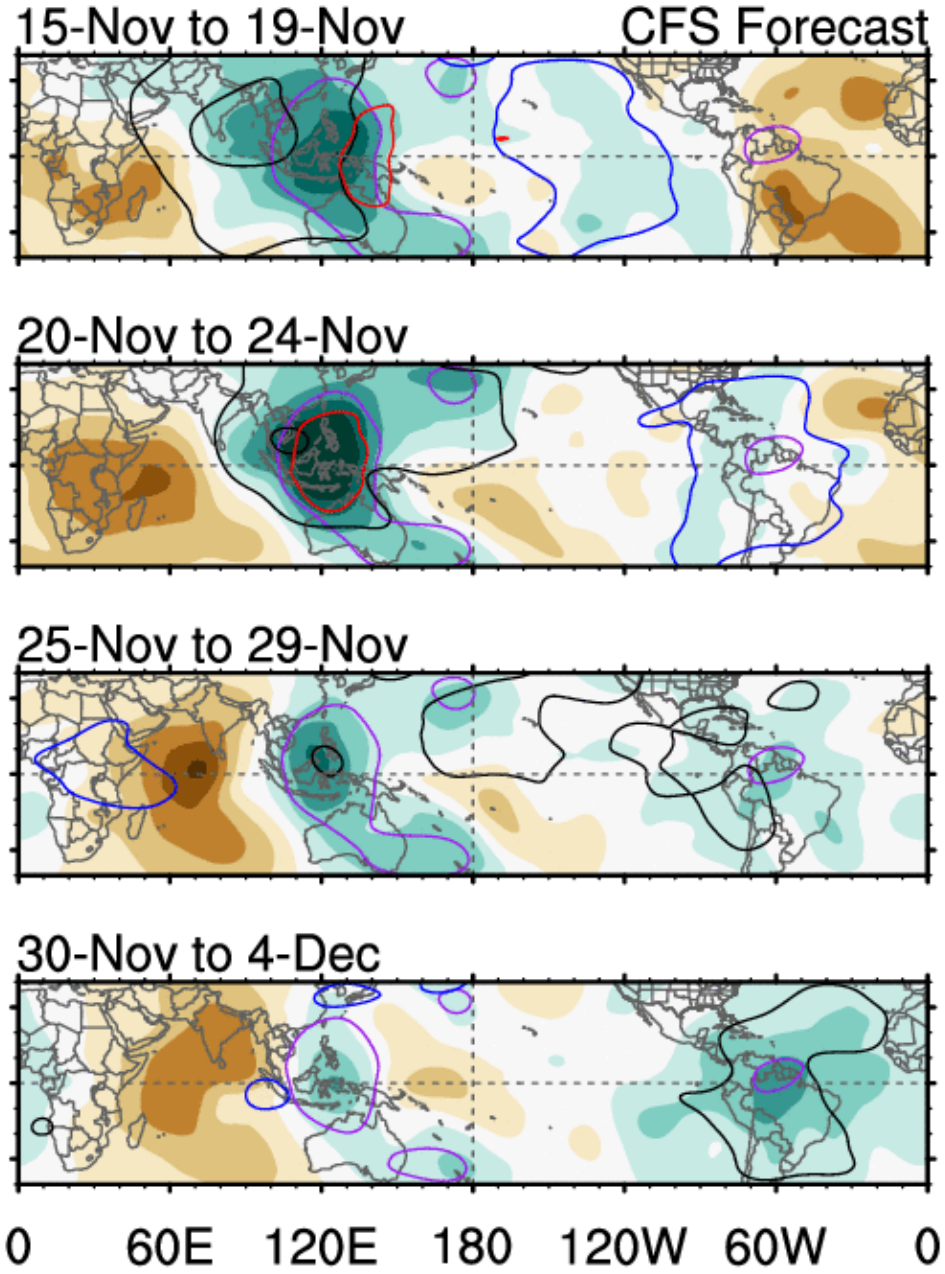




MJO Forecasts for the Americas

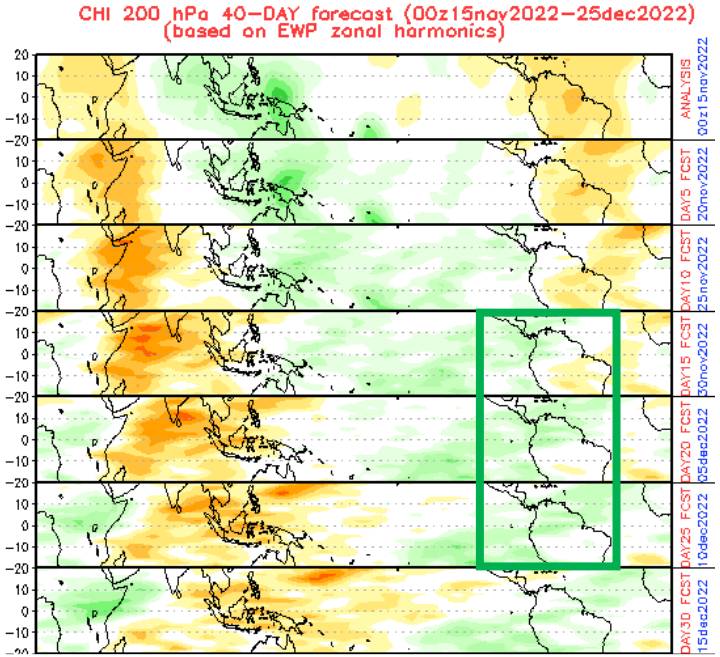
- Wet Kelvin Nov 20-24.
- Followed by wet MJO Nov 25-Dec 5.
- Areas of interest: Northern Amazon, Colombia, Venezuela, southern Caribbean, southern Central America.
- Can highlight systems that develop in central South America from Nov 25-Dec 5.



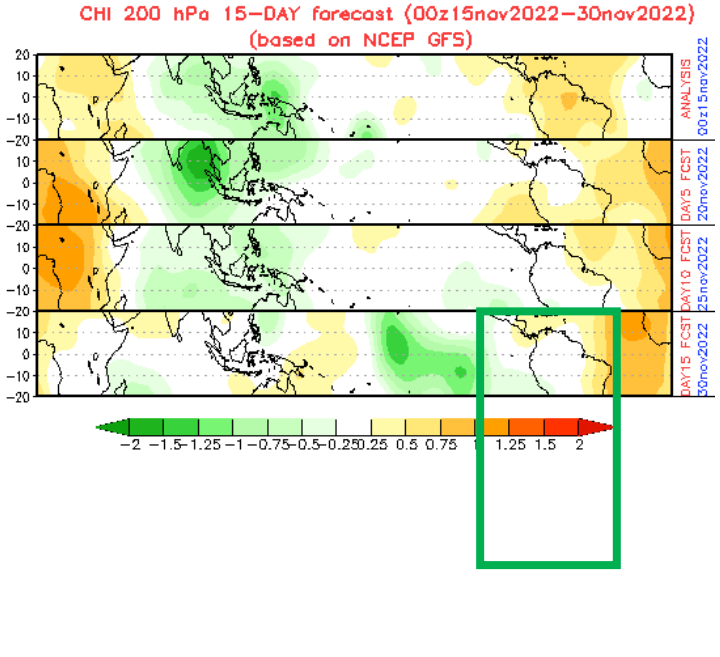


MJO Forecasts for the Americas

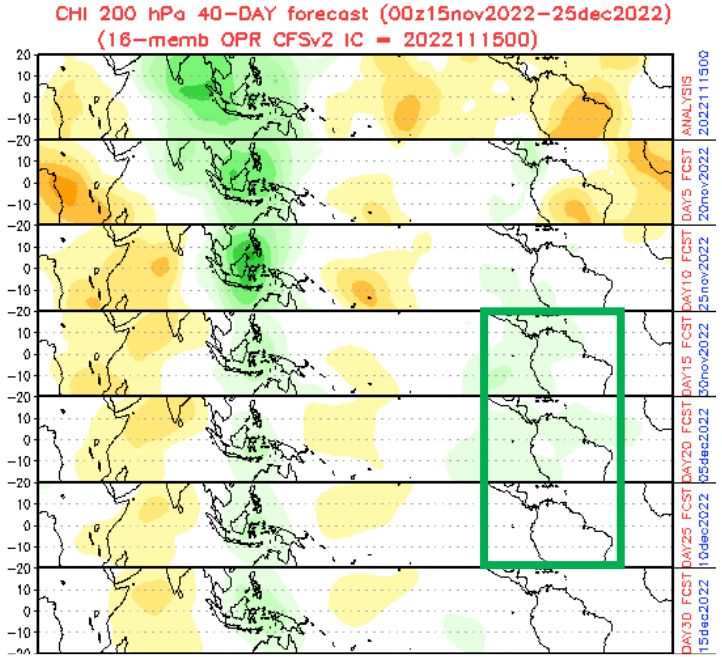
EWP



GFS



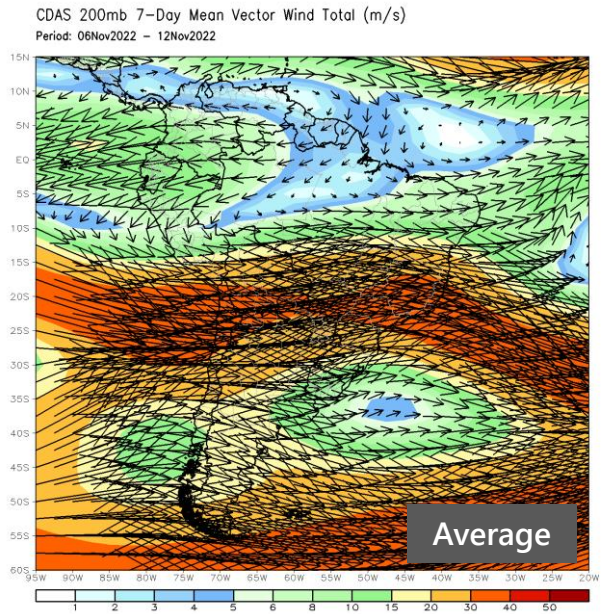
CFS

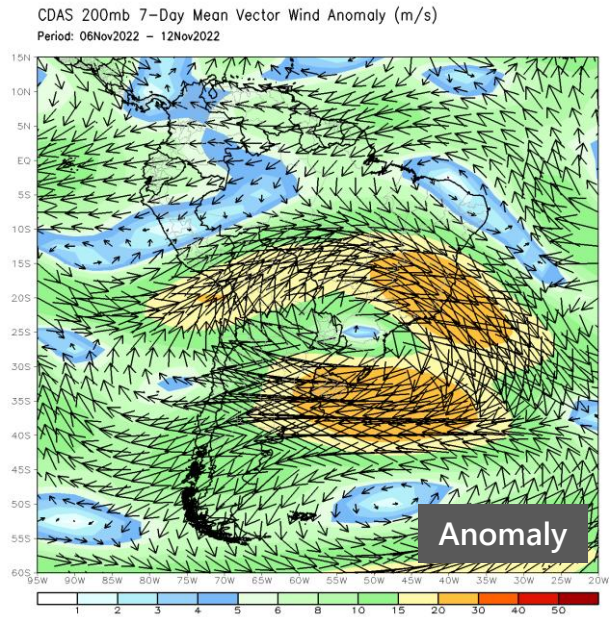


- We can consider EWP this time, propagation is improving.
- Wet: Late November/early December. Consistency among the 3 forecast tools.

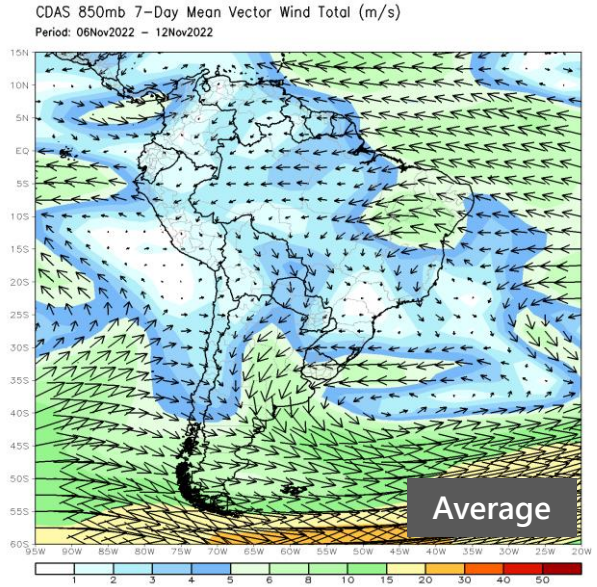
South America, Last 7 Days

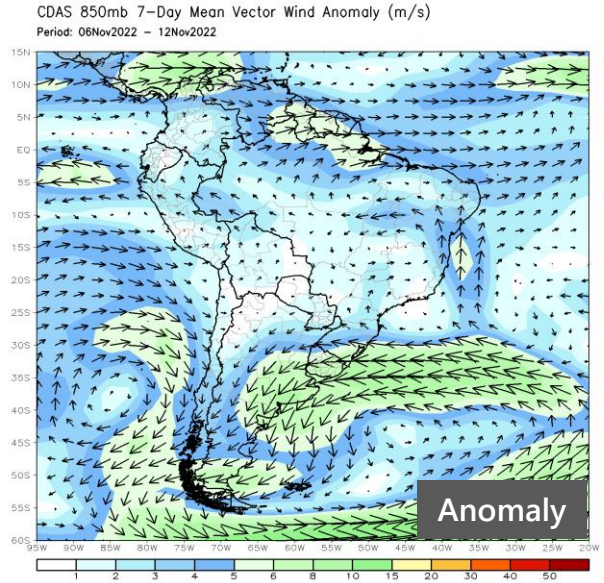
200 hPa Flow



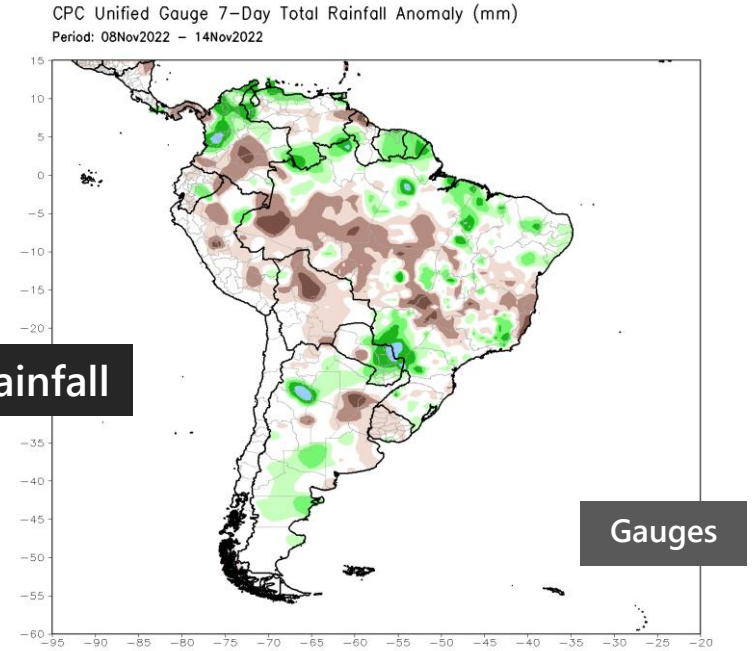


850 hPa Flow

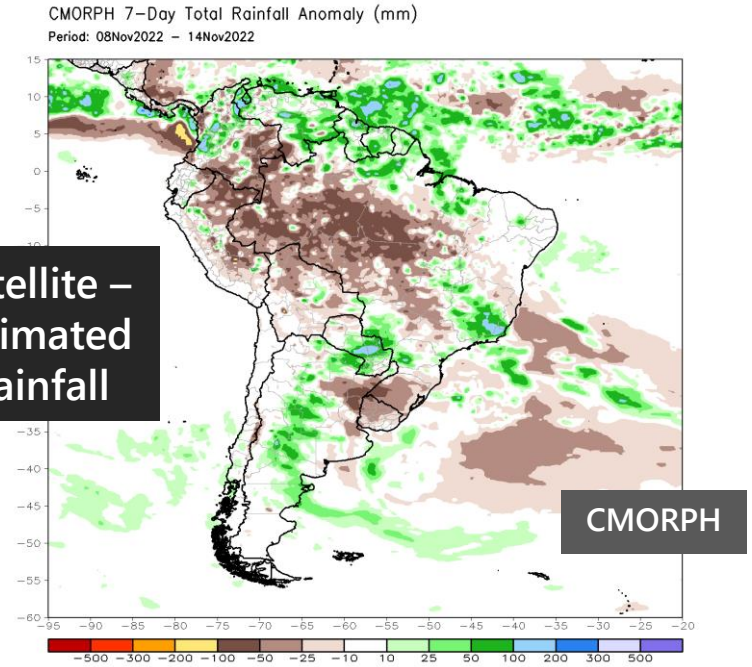




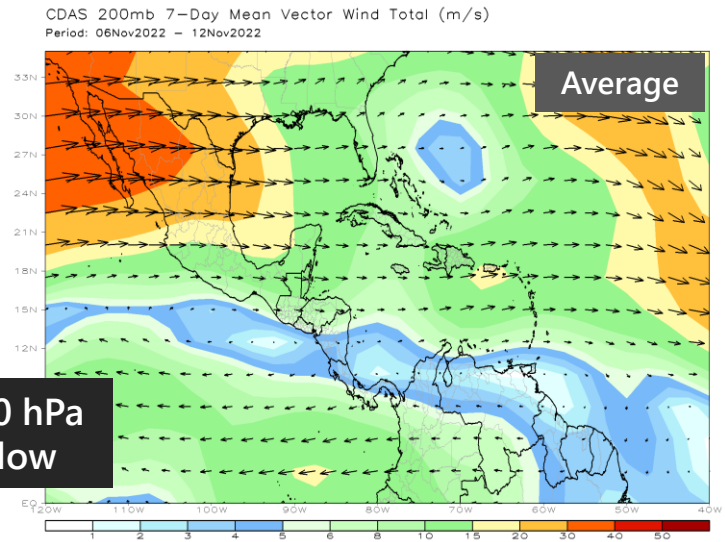
Rainfall

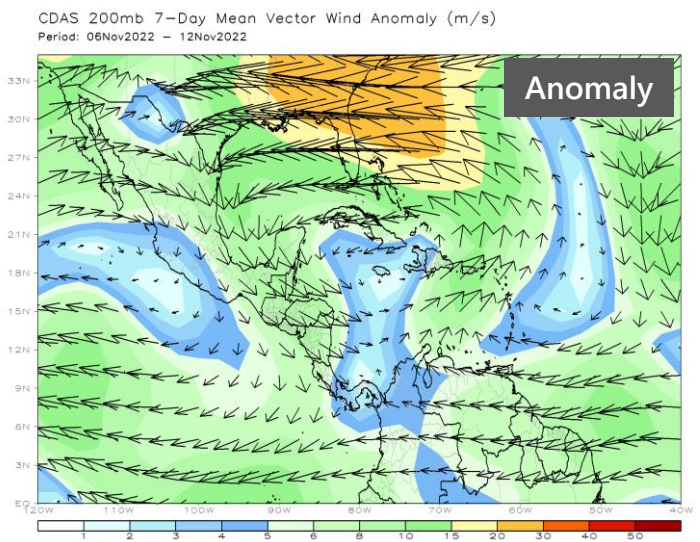


Satellite – Estimated Rainfall

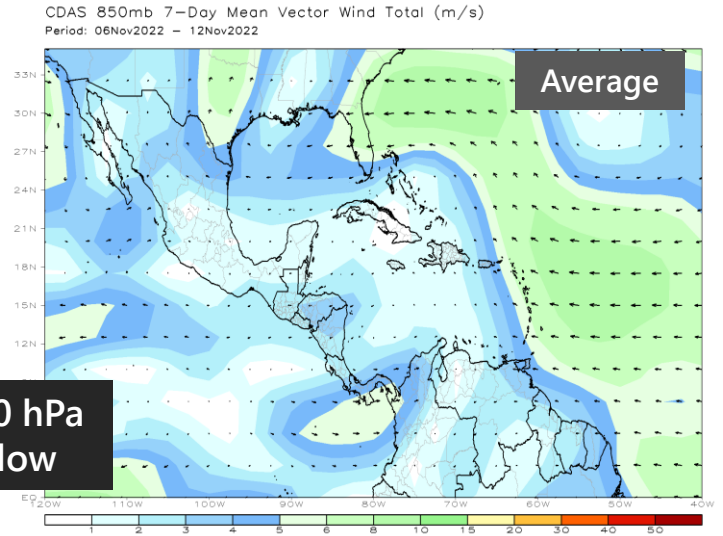


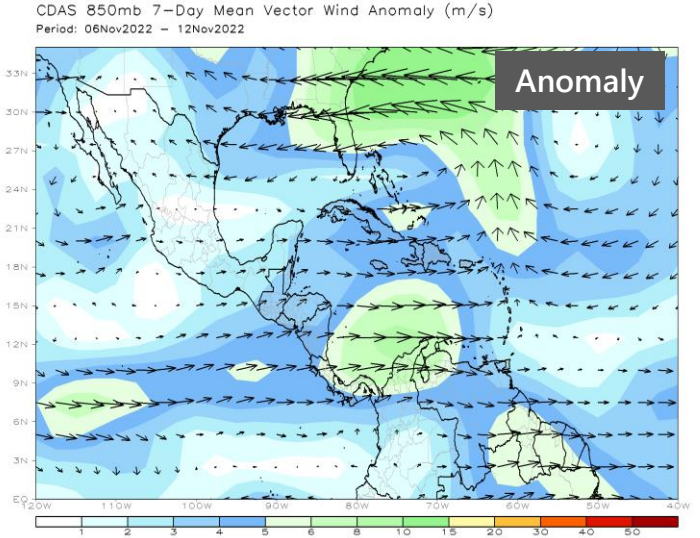
Caribbean, Central America and Mexico, Last 7 Days



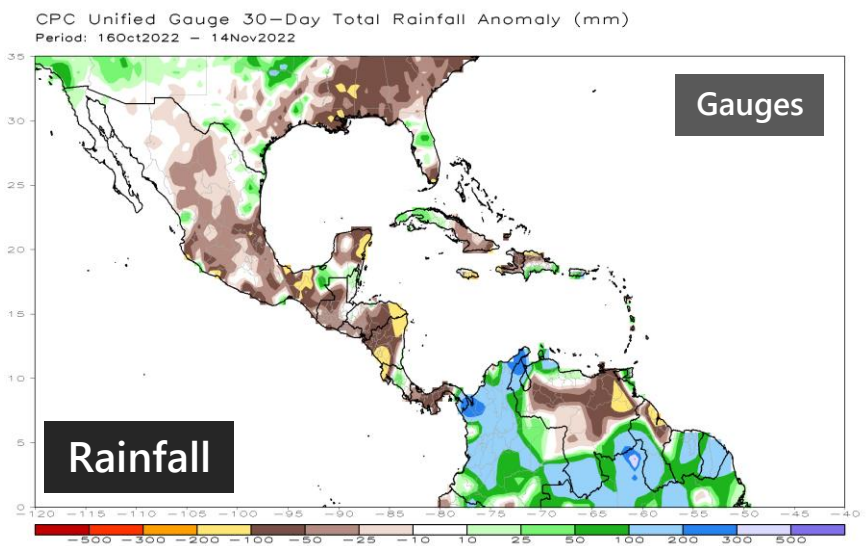


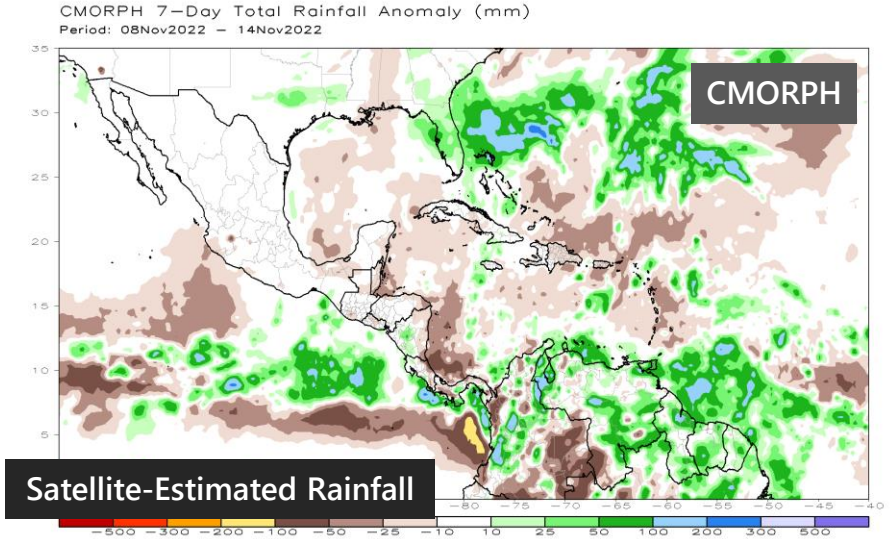
200 hPa Flow





850 hPa Flow





¡Gracias! Thank you! ¡Obrigado!

Next RFG Session: 7 December 2022 at 17:30 UTC

Recorded sessions and more information available at:
https://rammb2.cira.colostate.edu/training/rmtc/focusgroup/

Of Special Interest:

Barbados RA-IV Satellite Applications Workshop
5-8 December 2022 - English Only.

More information: https://rammb2.cira.colostate.edu/training/wmo-ra-iv-barbados-virtual-training-on-satellite-applications-december-2022/