

Monthly Regional Focus Group Session

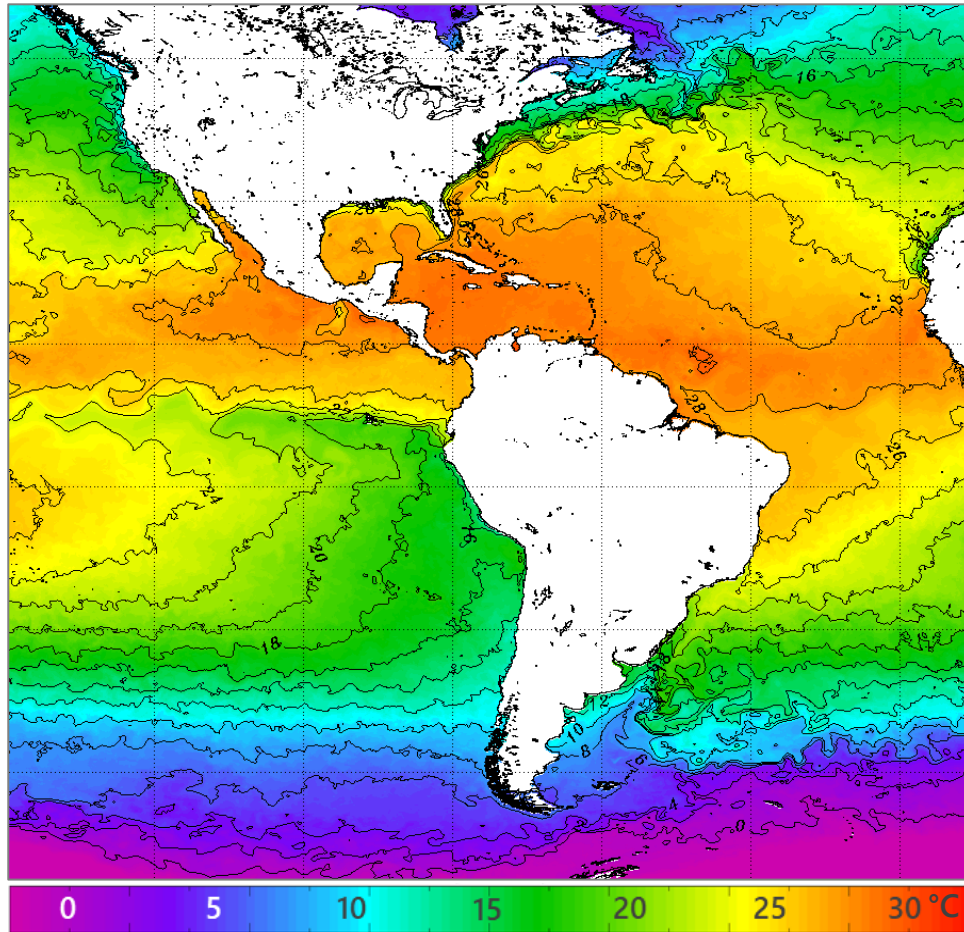
Wednesday 26 October 2022 at 15 UTC

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

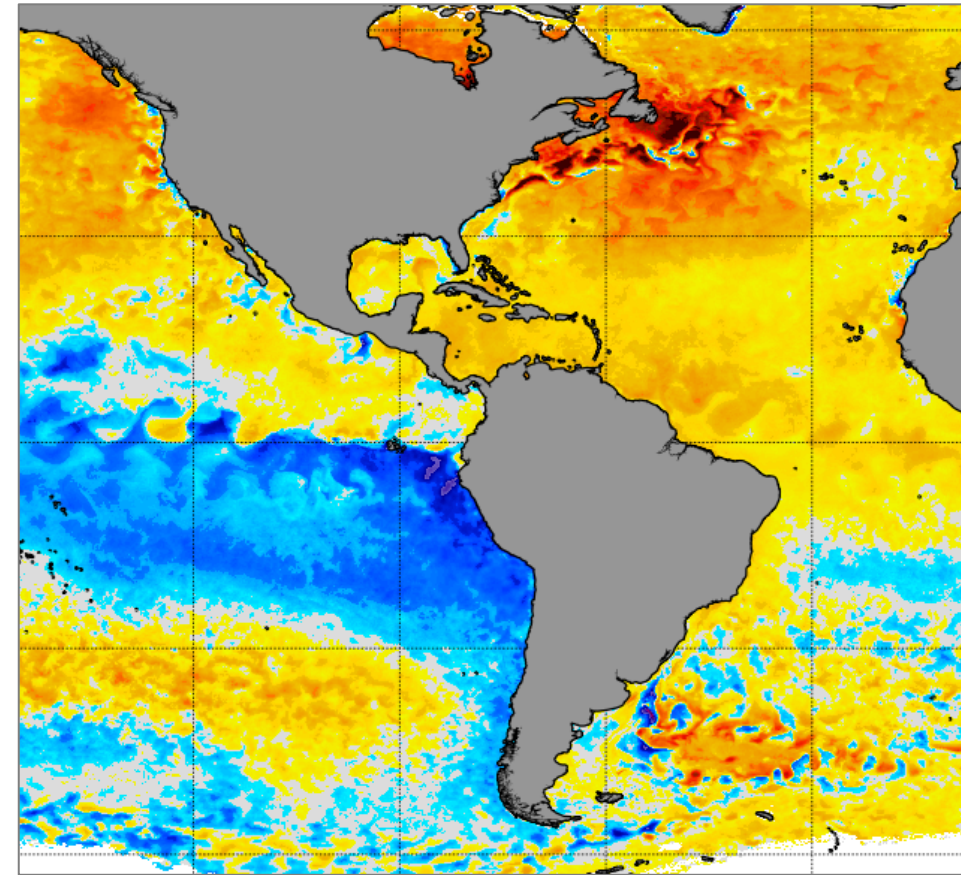
Sea Surface Temperatures (SST)

October 24th

SST



Anomaly



NOAA OSPO

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

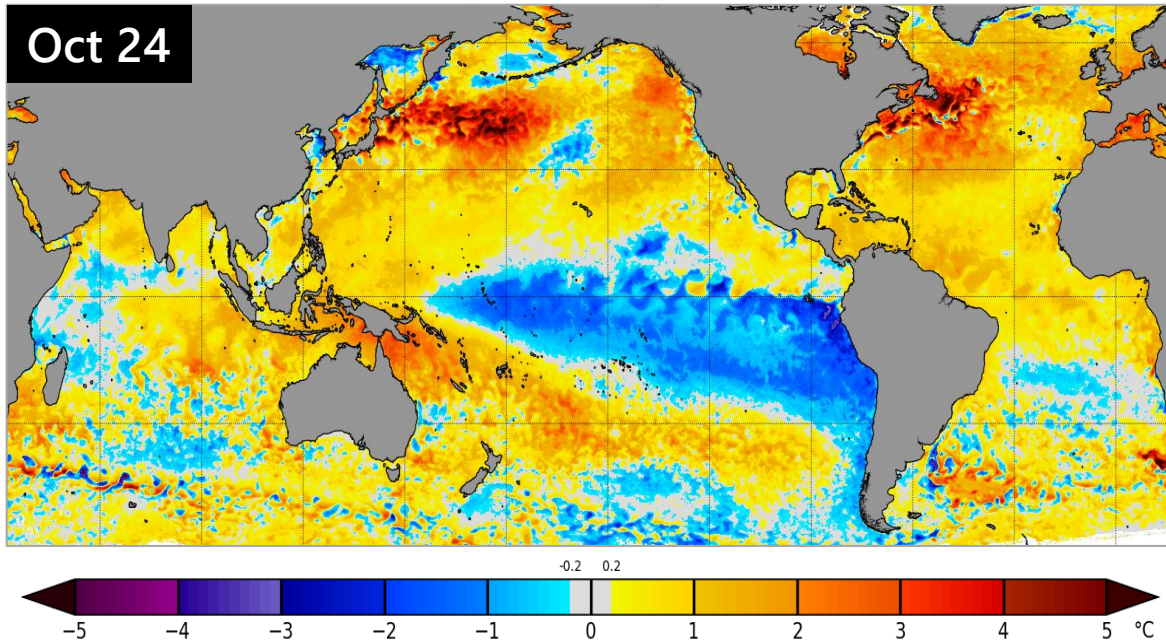
NOAA Coral Reef Watch

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

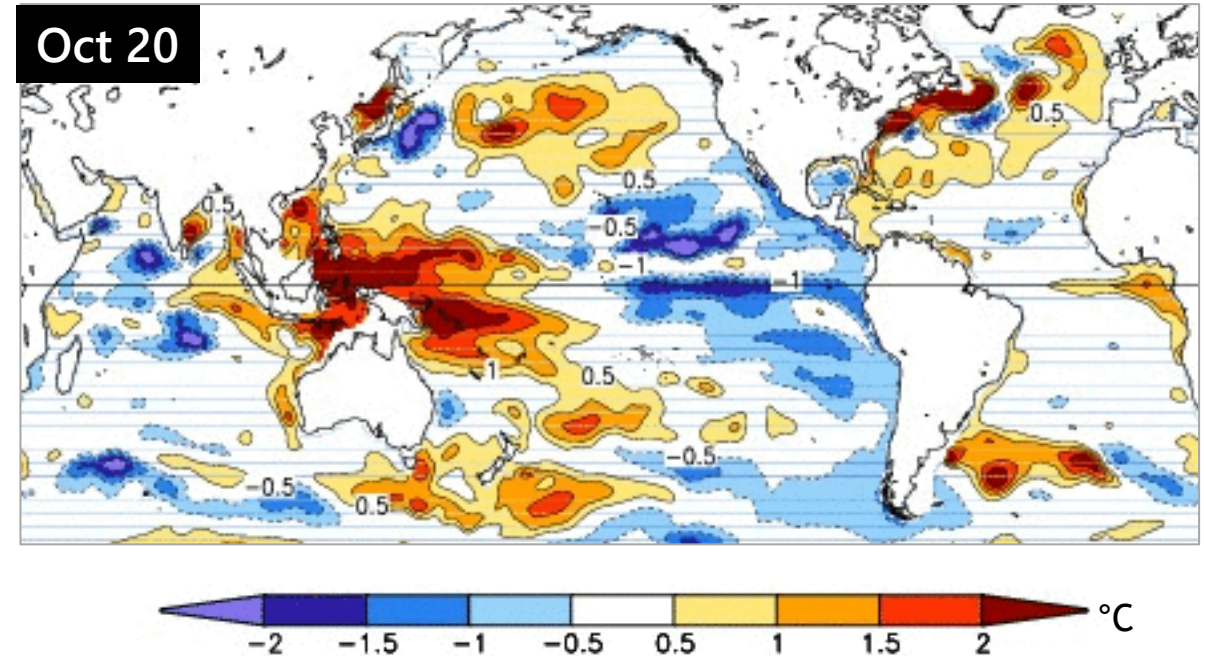
Surface Anomaly



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/>

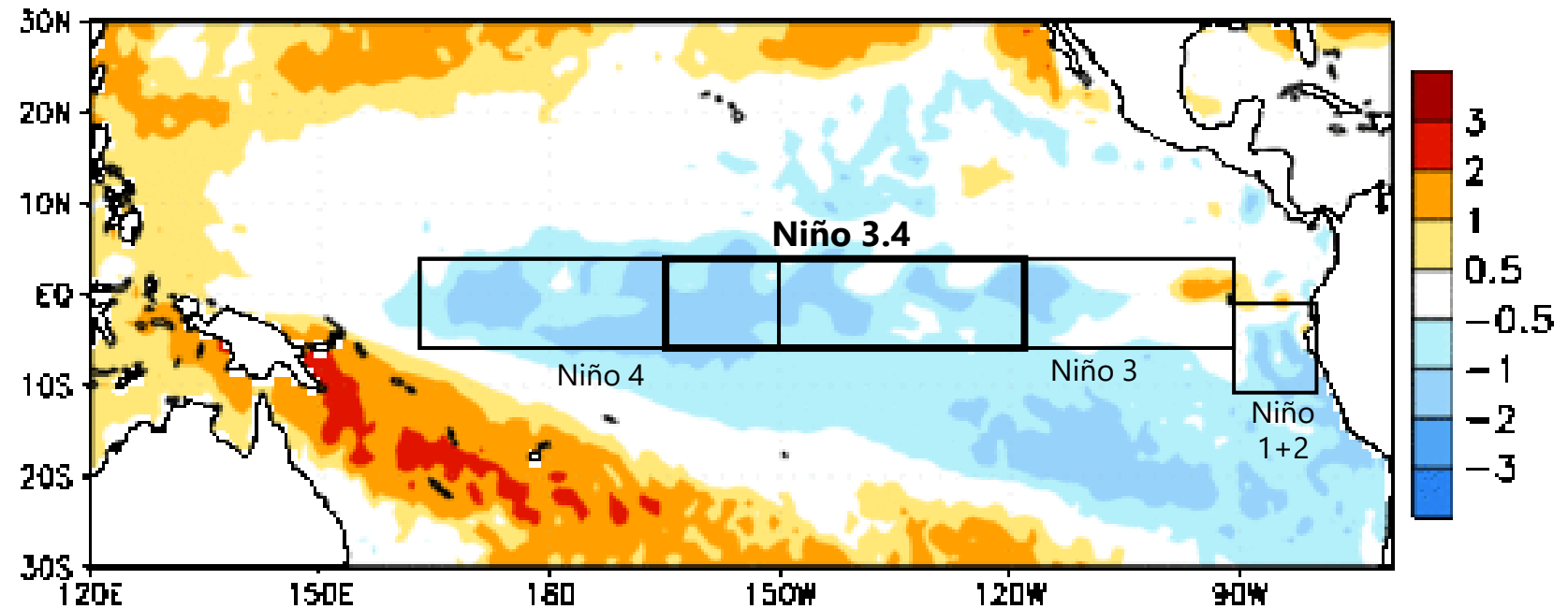
ENSO:

La Niña

(no changes since April)

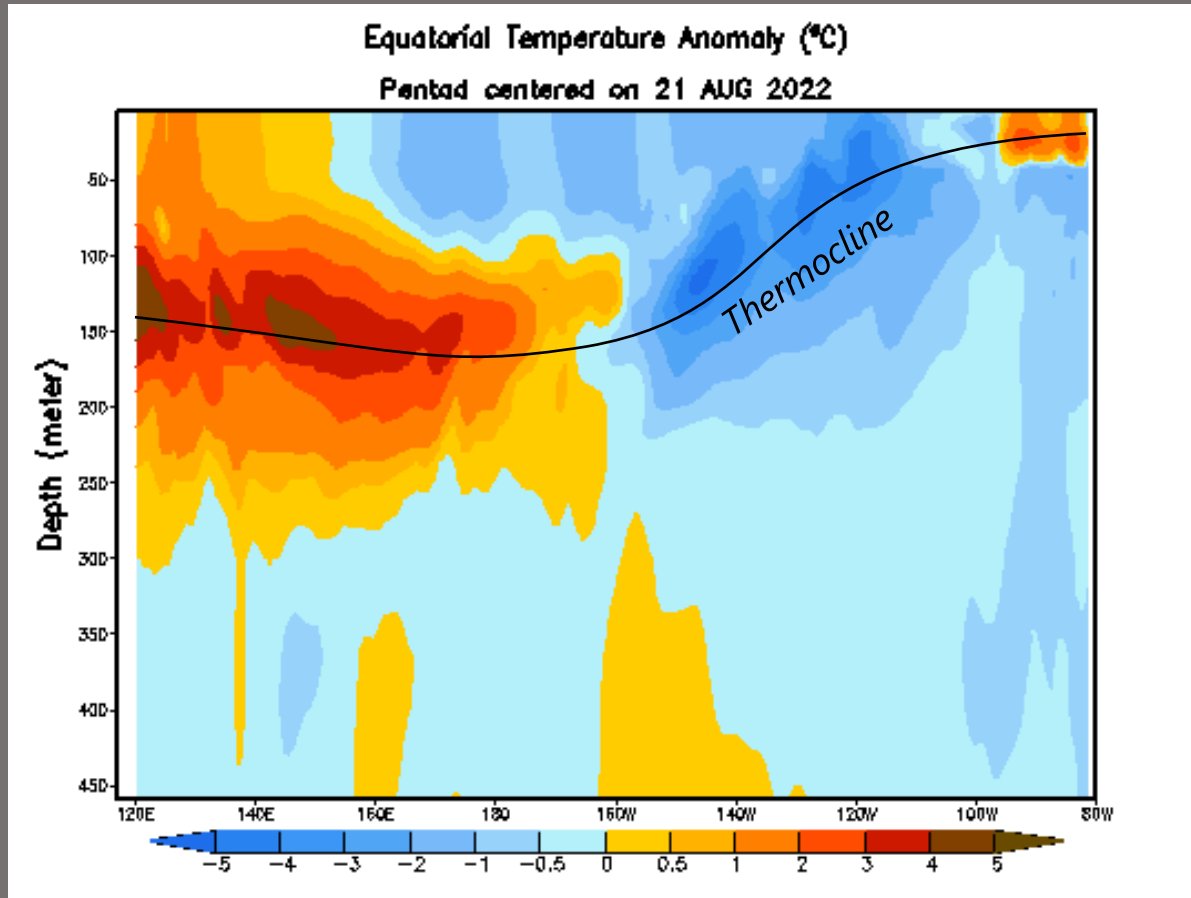
- ☉ La Niña is present.*
- ☉ Equatorial SSTs are below average across most of the Pacific Ocean.
- ☉ The tropical Pacific atmosphere is consistent with La Niña.

Week centered on 03 AUG 2022
SST Anomalies (°C)



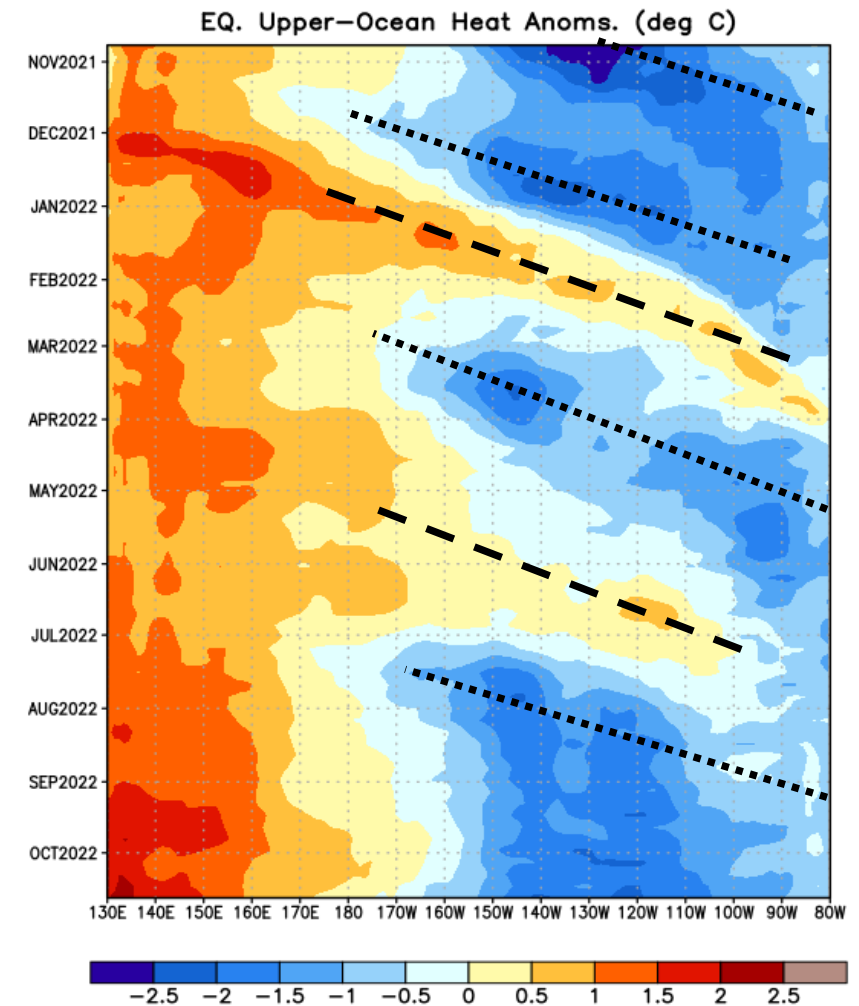
ENSO: Oceanic Kelvin Waves

Equatorial Pacific Temperature Anomaly Cross Section



Source: CPC

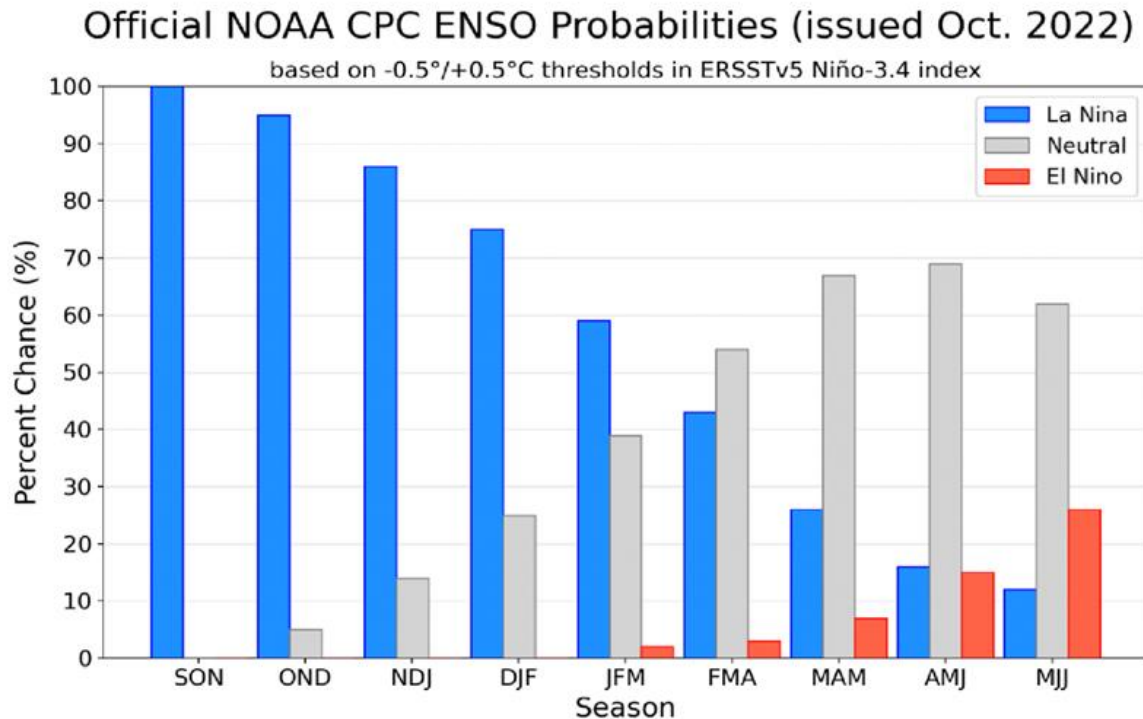
Heat Content Anomaly Hovmöller



ENSO Outlook

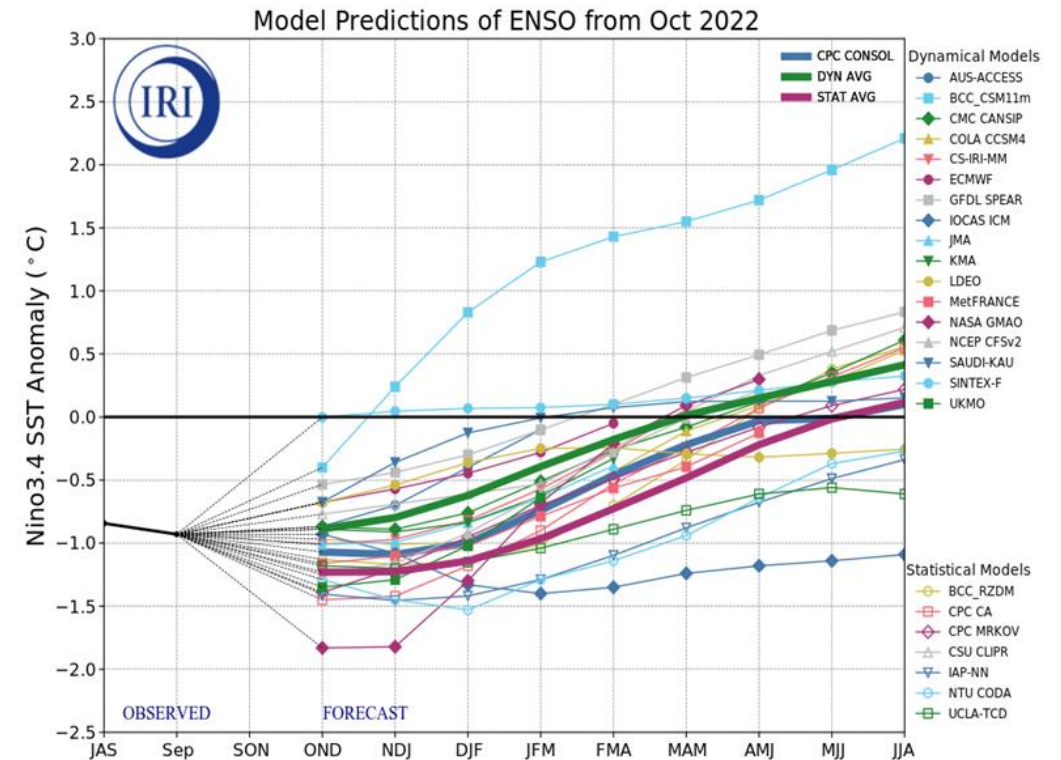
There is a 75% chance of La Niña during the Northern Hemisphere winter (December-February) 2022-23, with a 54% chance for ENSO-neutral in February-April 2023.*

CPC Probabilistic Forecast



Source: CPC

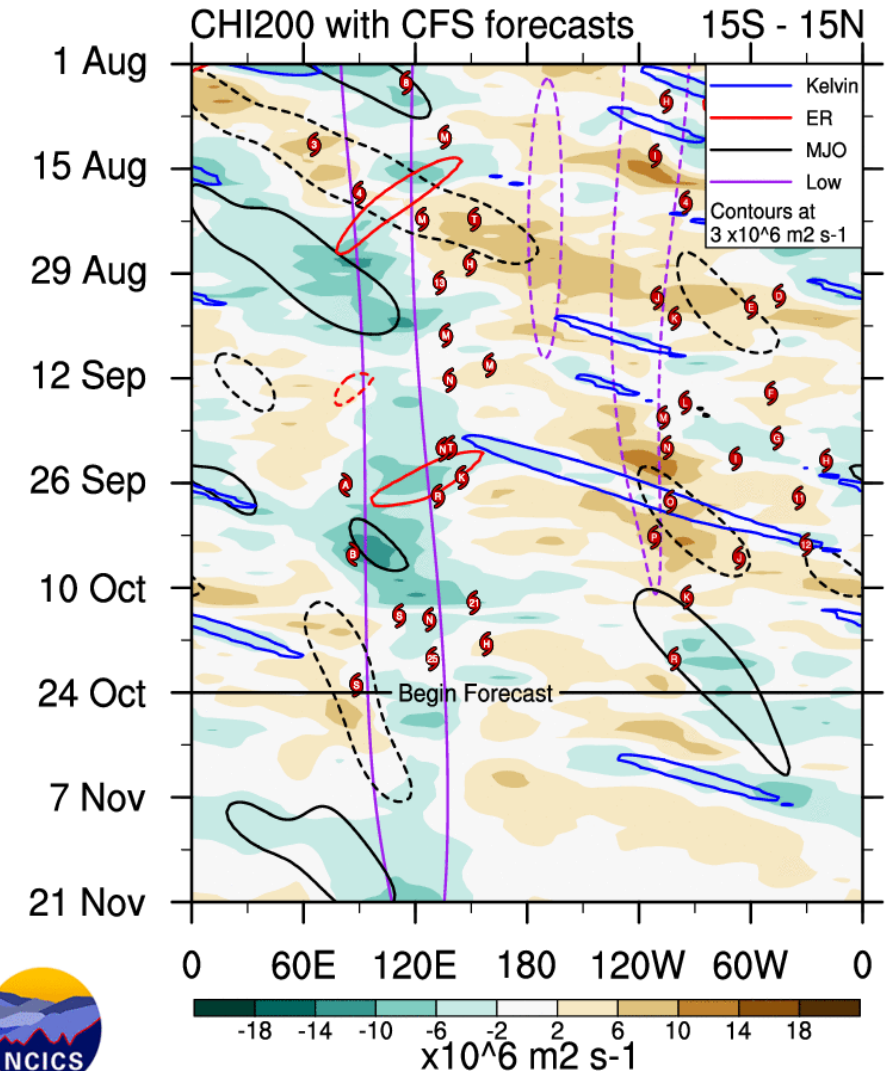
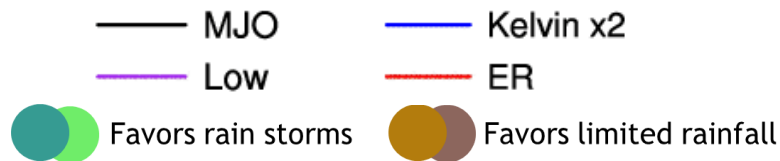
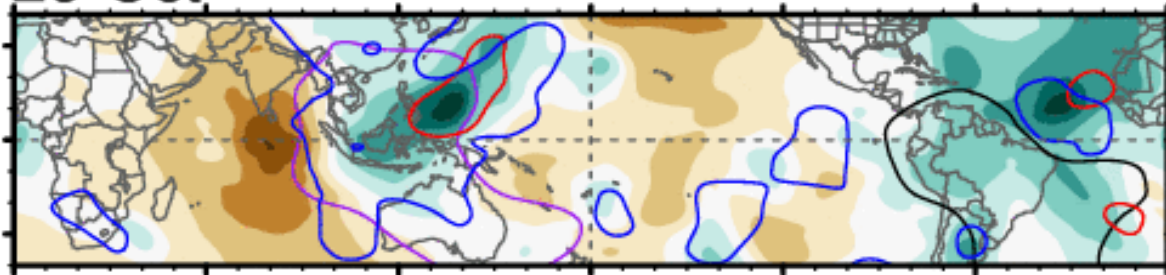
IRI/CPC Dynamic Models



Madden-Julian Oscillation (MJO)

- The MJO is disorganized. There seems to be a wave-2 pattern (wet in the Maritime Continent and Atlantic).
- Weak divergent pulse is crossing the Americas/Atlantic.
- This is highlighting convection and rainfall in South America and the central and eastern Caribbean.

26-Oct



ncics.org/mjo

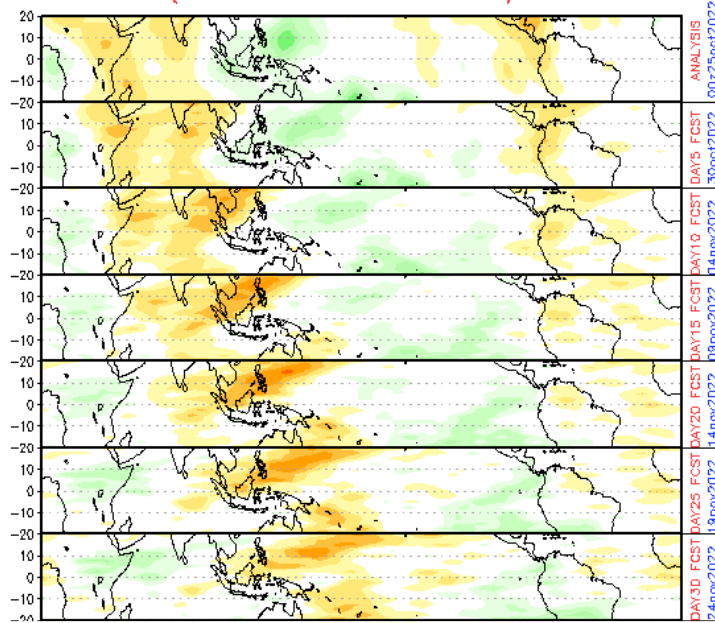
Tue 2022-10-25 1012 UTC

Carl Schreck
carl_schreck@ncsu.edu

MJO Forecasts for the Americas

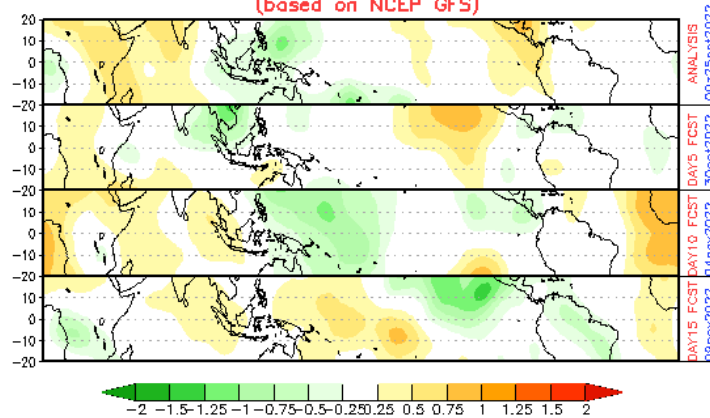
EWP

CHI 200 hPa 40-DAY forecast (00z25oct2022-04dec2022)
(based on EWP zonal harmonics)



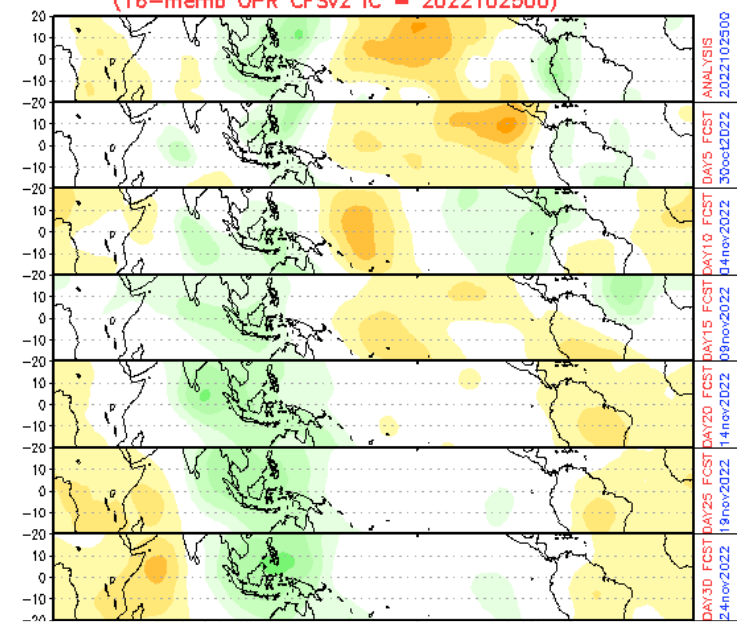
GFS

CHI 200 hPa 15-DAY forecast (00z25oct2022-09nov2022)
(based on NCEP GFS)

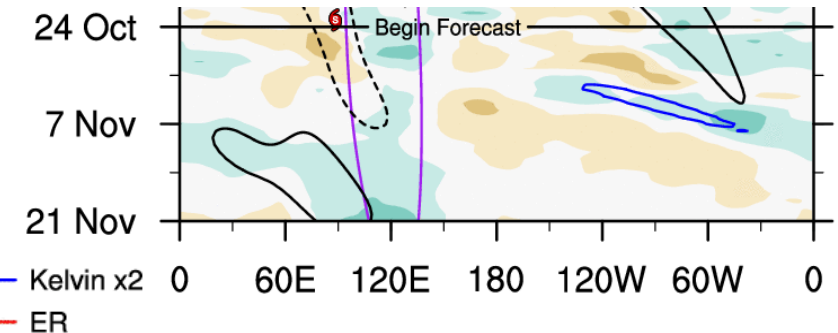


CFS

CHI 200 hPa 40-DAY forecast (00z25oct2022-04dec2022)
(16-memb OPR CFSv2 IC = 2022102500)

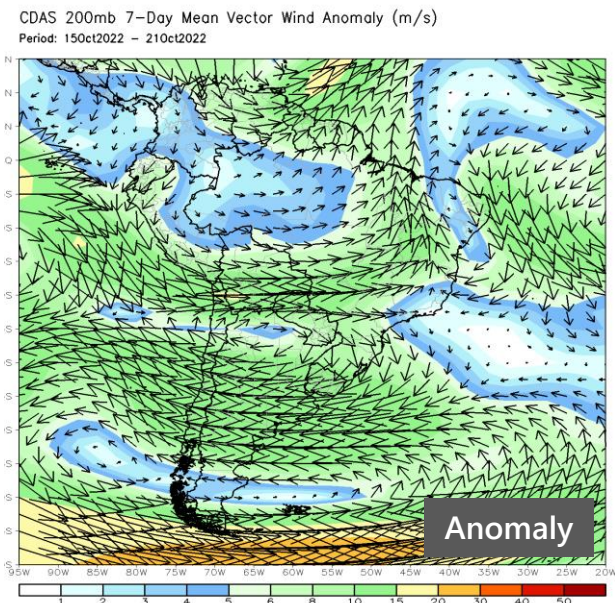
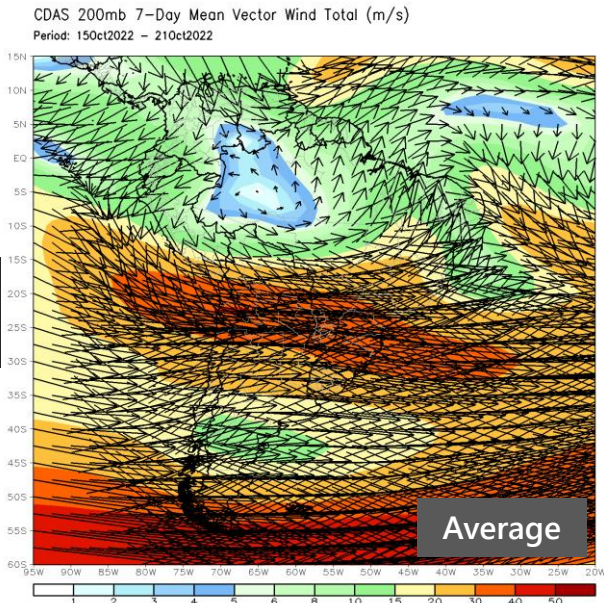


- Low confidence. Neutral to wetter through November 10. Drier after.
- Kelvin wave enhancement Nov 4-8.

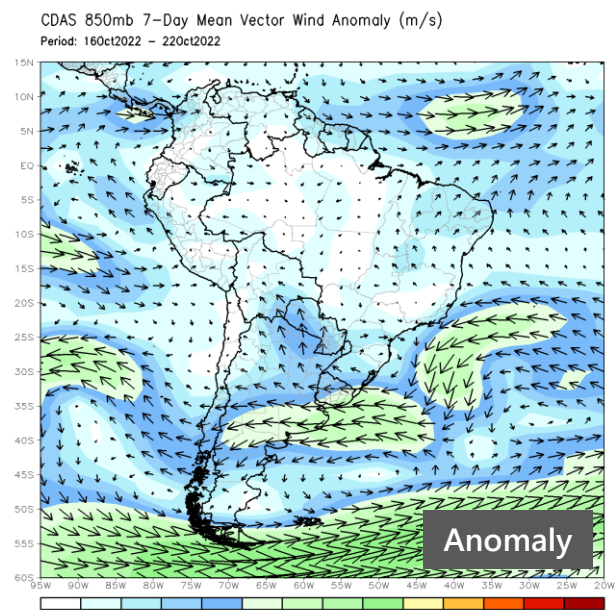
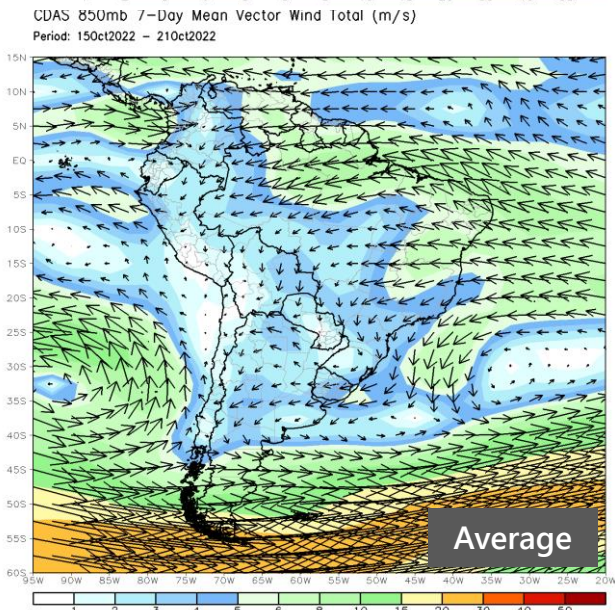


South America, Last 7 Days

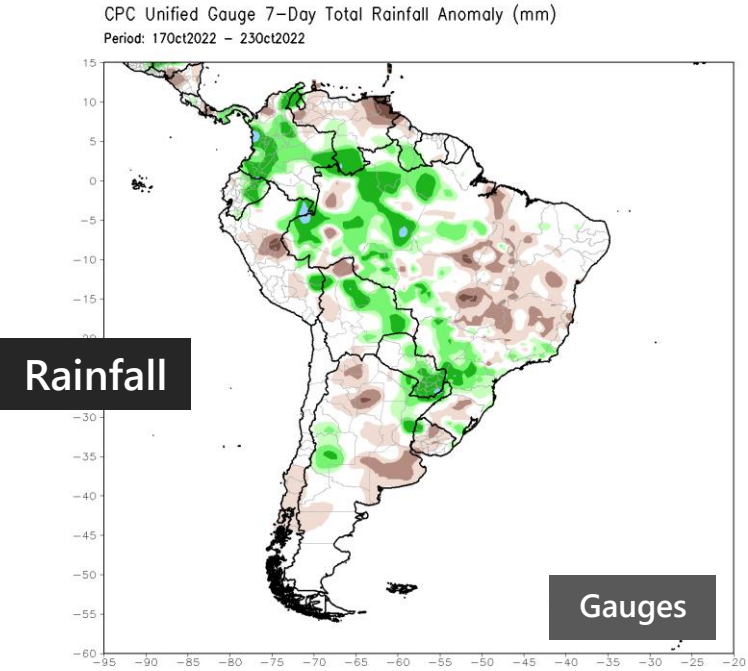
200 hPa
Flow



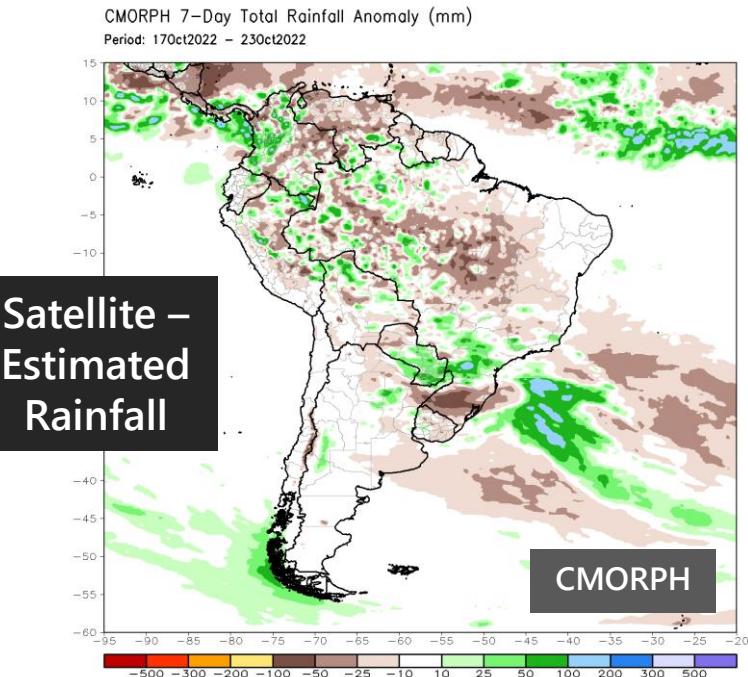
850 hPa
Flow



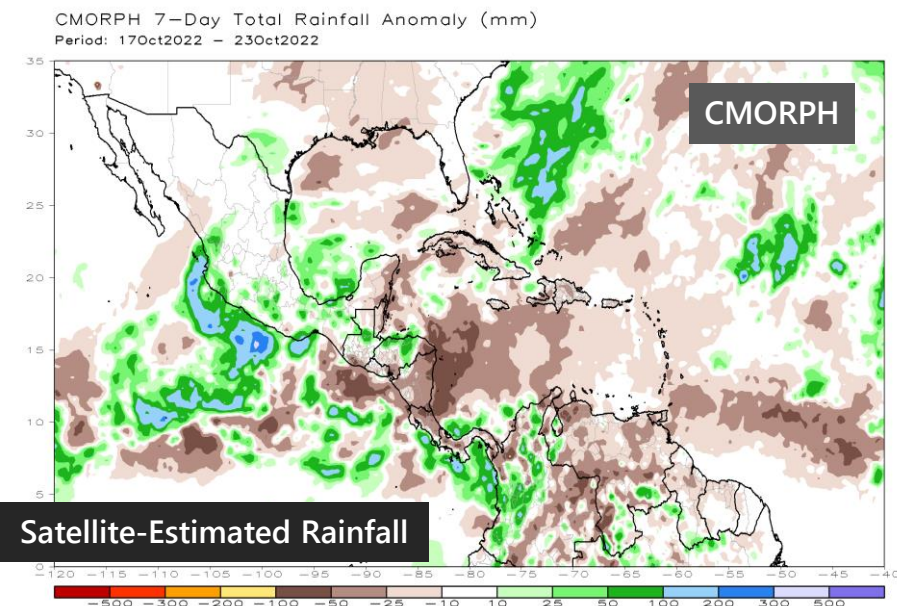
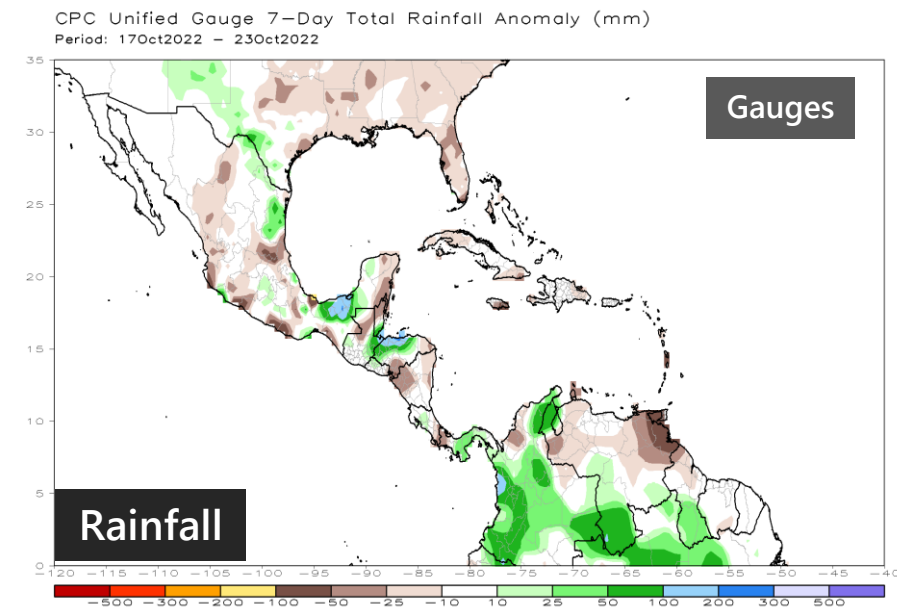
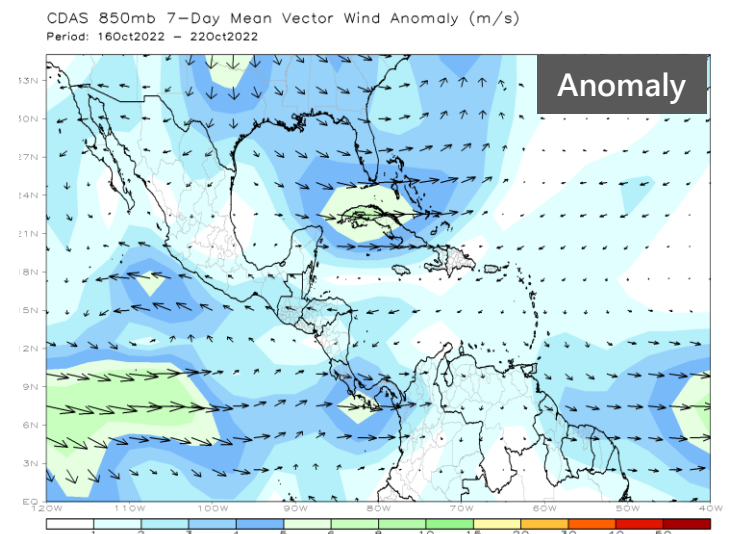
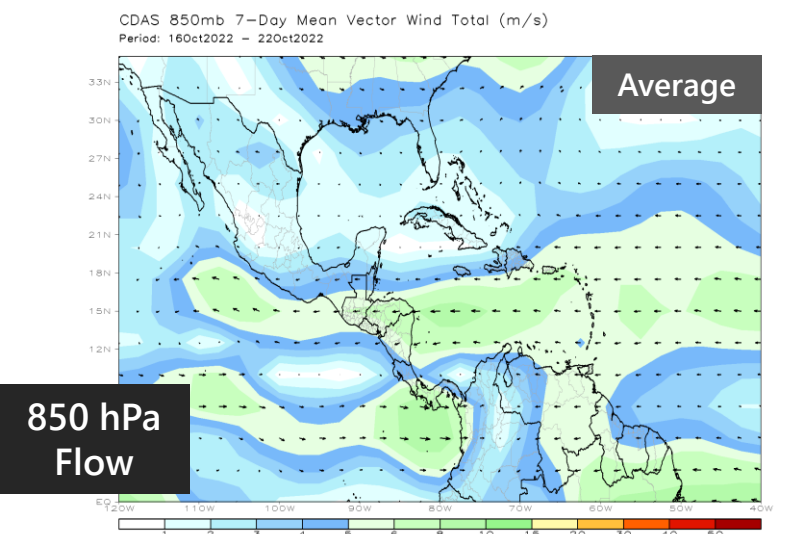
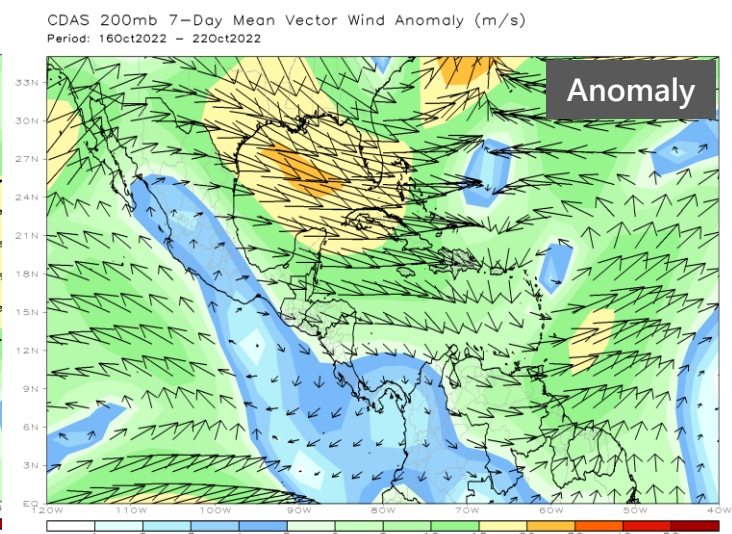
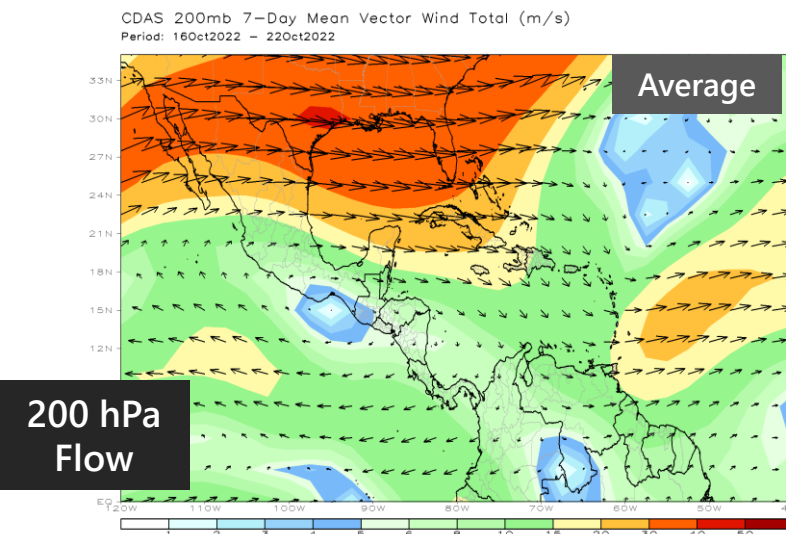
Rainfall



Satellite –
Estimated
Rainfall



Caribbean, Central America and Mexico, Last 7 Days



¡Gracias! Thank you! ¡Obrigado!

Next session: 16 November 2022 at 16 UTC

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