

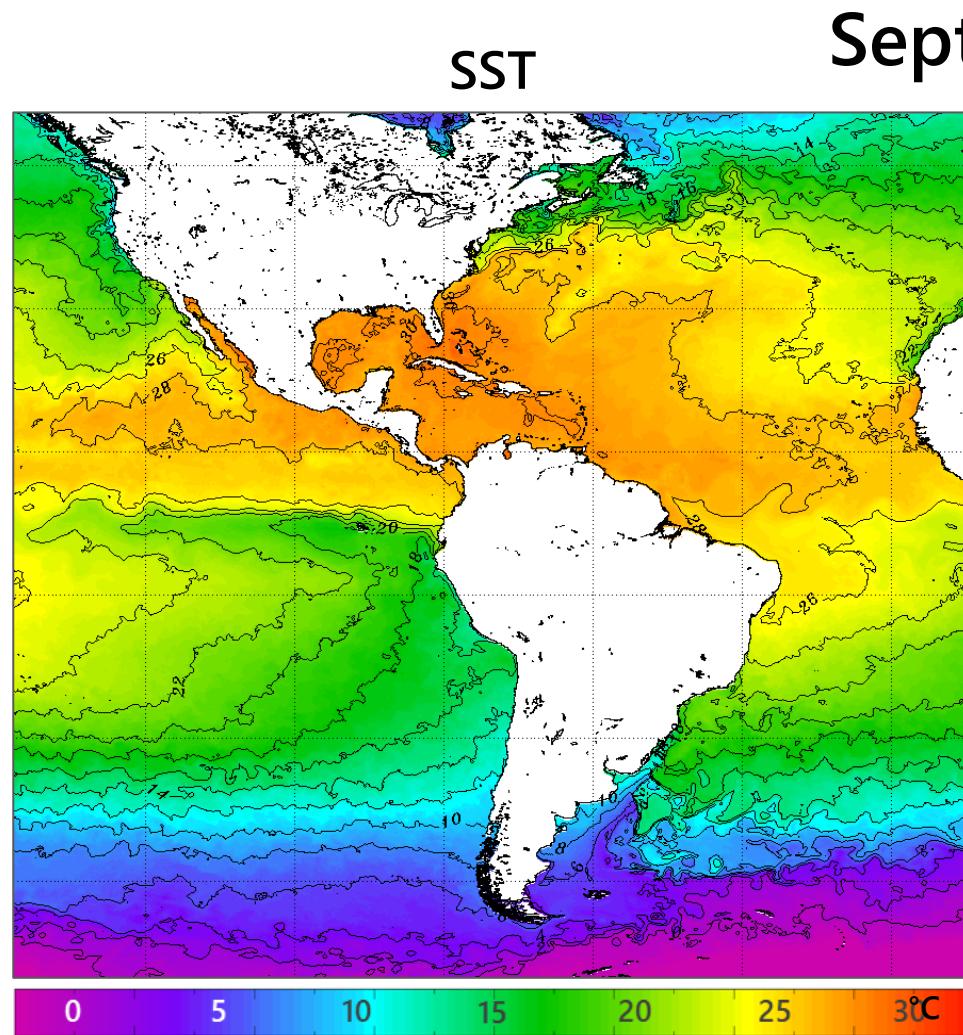


Monthly Regional Focus Group Session

Wednesday 14 September 2022 at 15 UTC

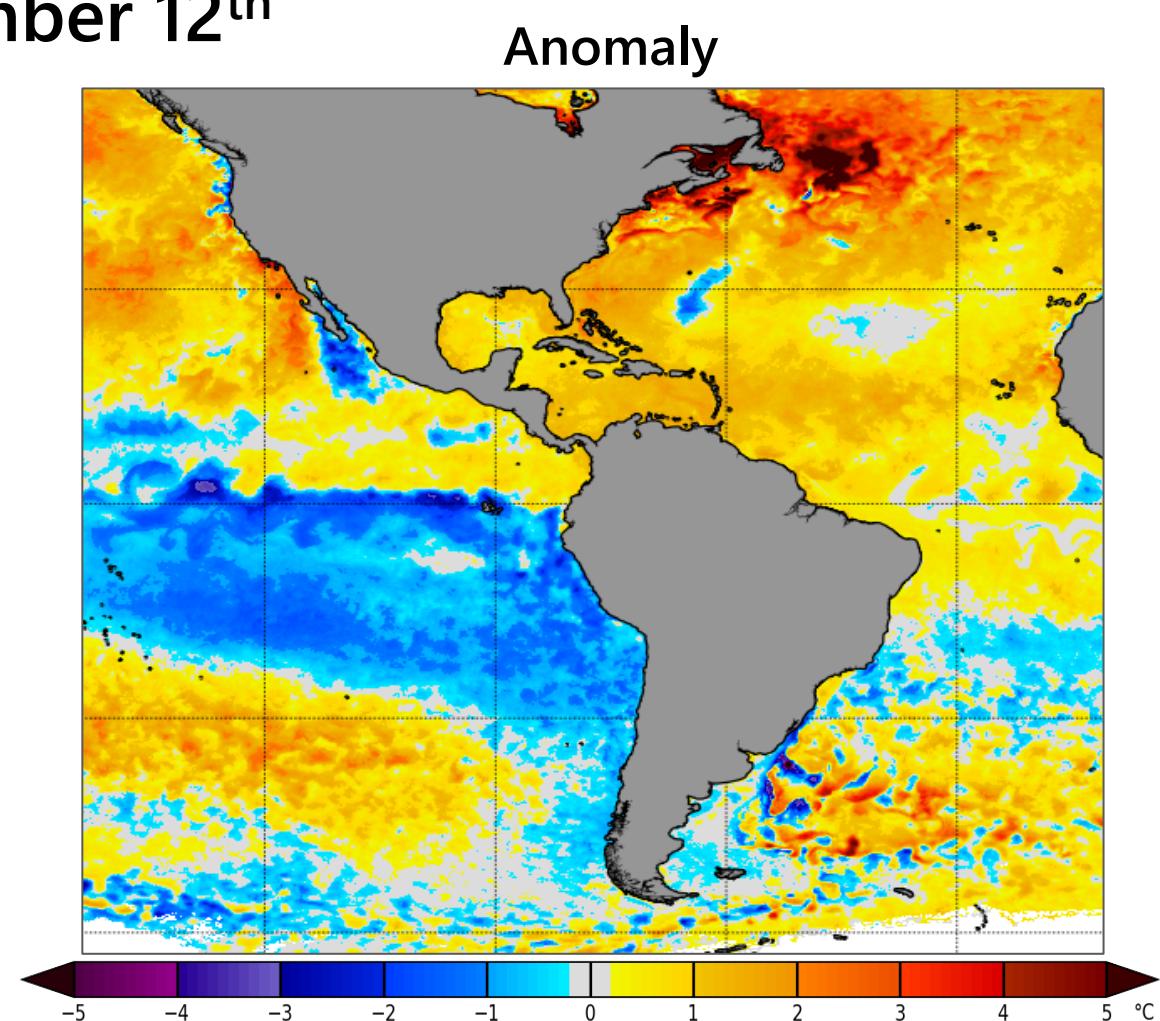
<https://rammb2.cira.colostate.edu/training/rmtc/focusgroup/>

Sea Surface Temperatures (SST)



NOAA OSPO

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



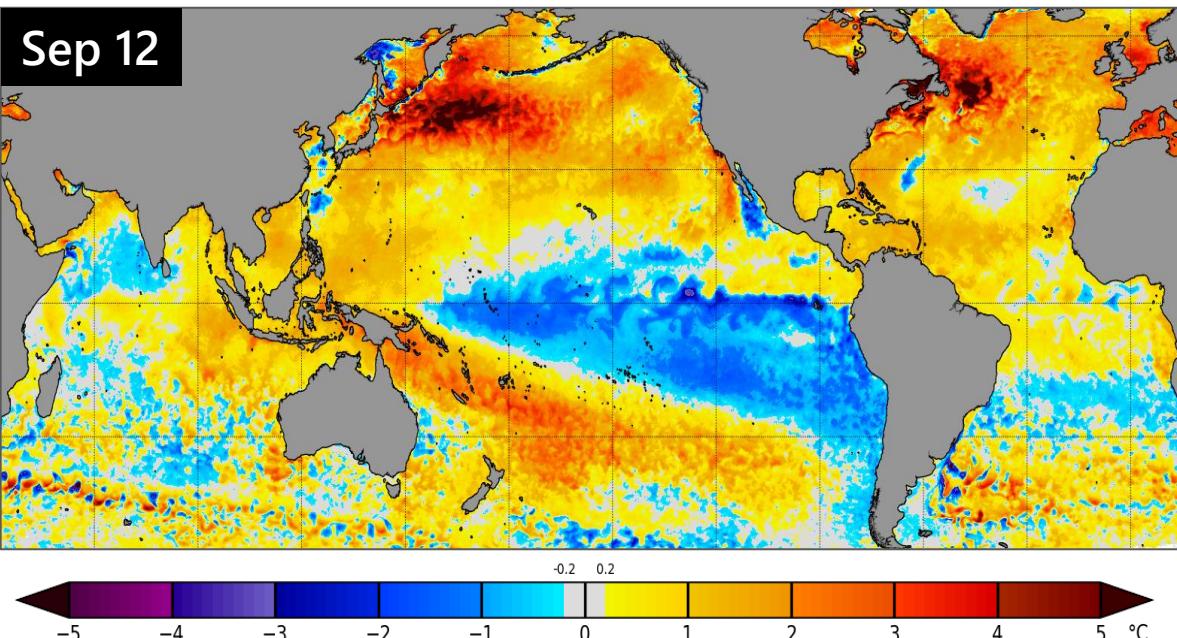
NOAA Coral Reef Watch

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

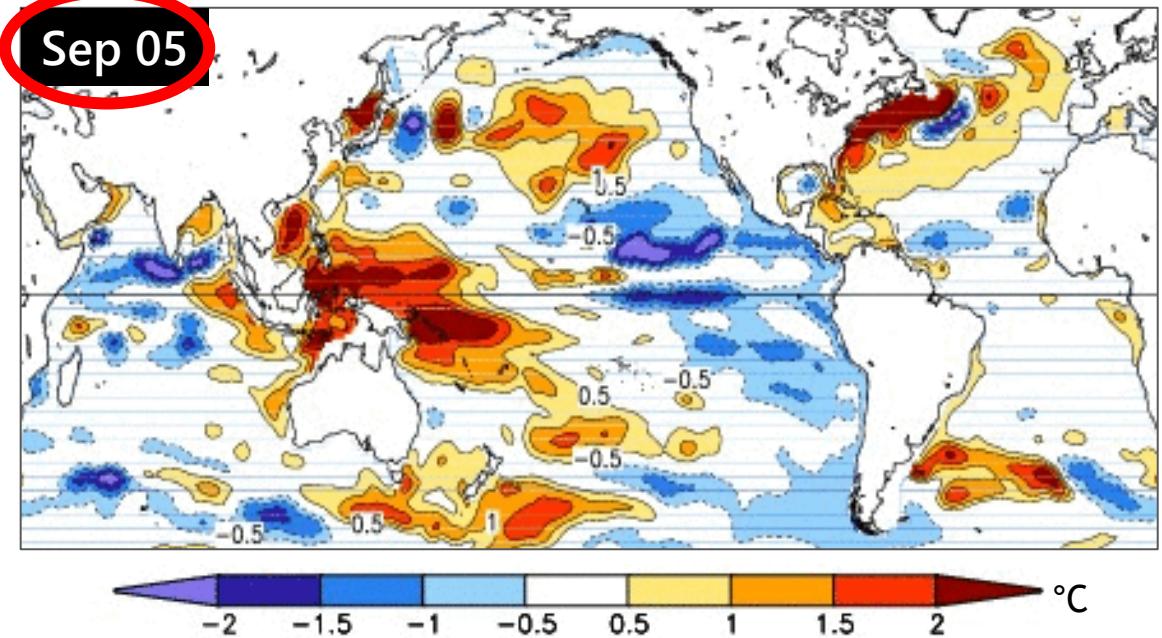
Surface Anomaly



NOAA Coral Reef Watch

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

Top 300m-Layer Anomaly (GODAS)



NOAA CPC

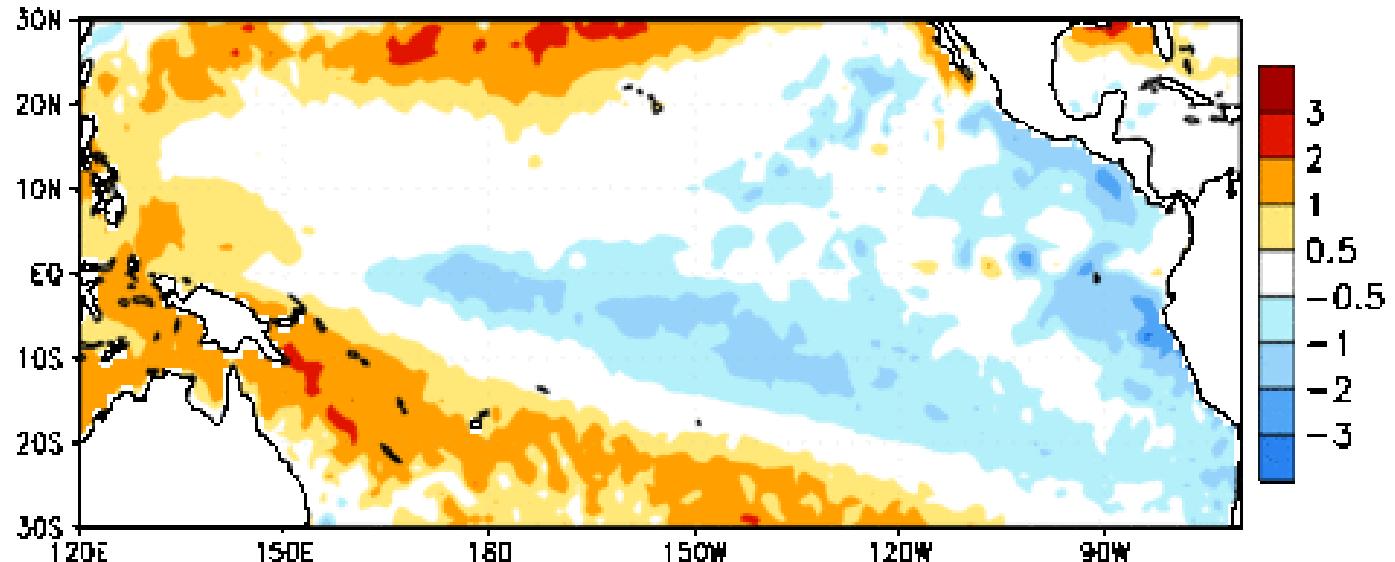
Source: CPC GODAS, <https://www.cpc.ncep.noaa.gov/products/GODAS/>

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 22 JUN 2022
SST Anomalies (°C)

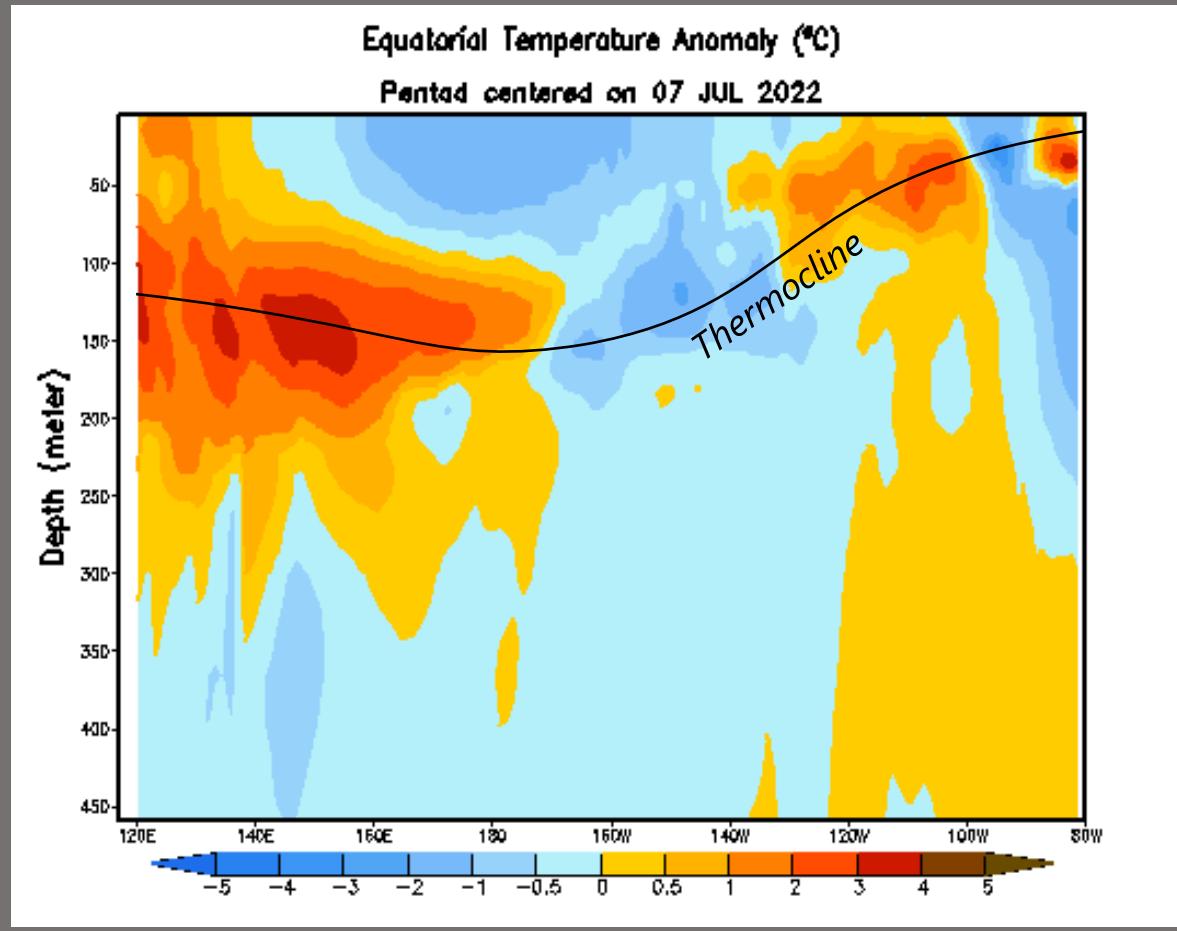


ONI

Year	DJF	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ
2019	0.7	0.7	0.7	0.7	0.5	0.5	0.3	0.1	0.2	0.3	0.5	0.5
2020	0.5	0.5	0.4	0.2	-0.1	-0.3	-0.4	-0.6	-0.9	-1.2	-1.3	-1.2
2021	-1.0	-0.9	-0.8	-0.7	-0.5	-0.4	-0.4	-0.5	-0.7	-0.8	-1.0	-1.0
2022	-1.0	-0.9	-1.0	-1.1	-1.0	-0.9	-0.8					

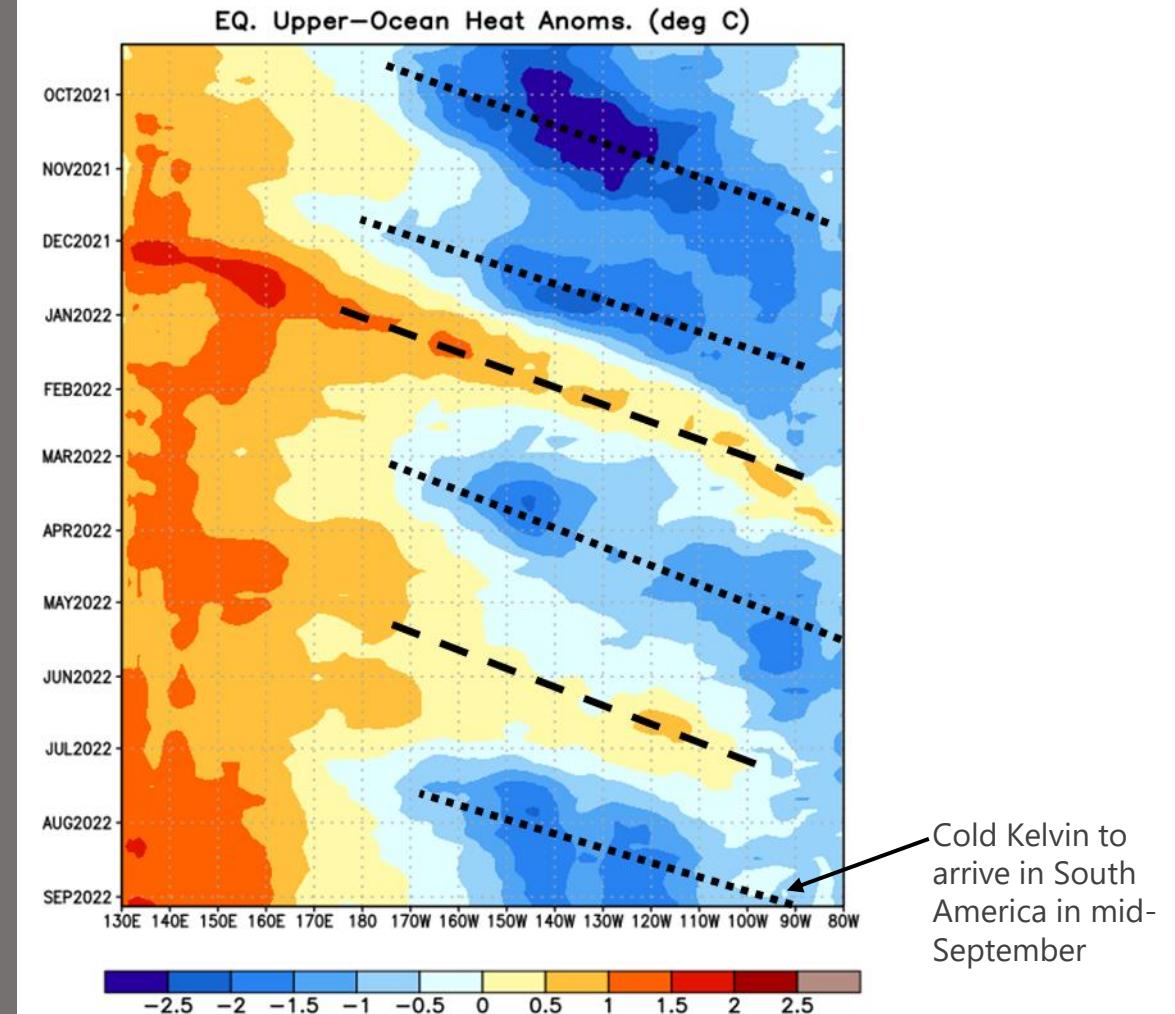
ENSO: Oceanic Kelvin Waves

Equatorial Pacific Temperature Anomaly Cross Section



Source: CPC

Heat Content Hovmöller

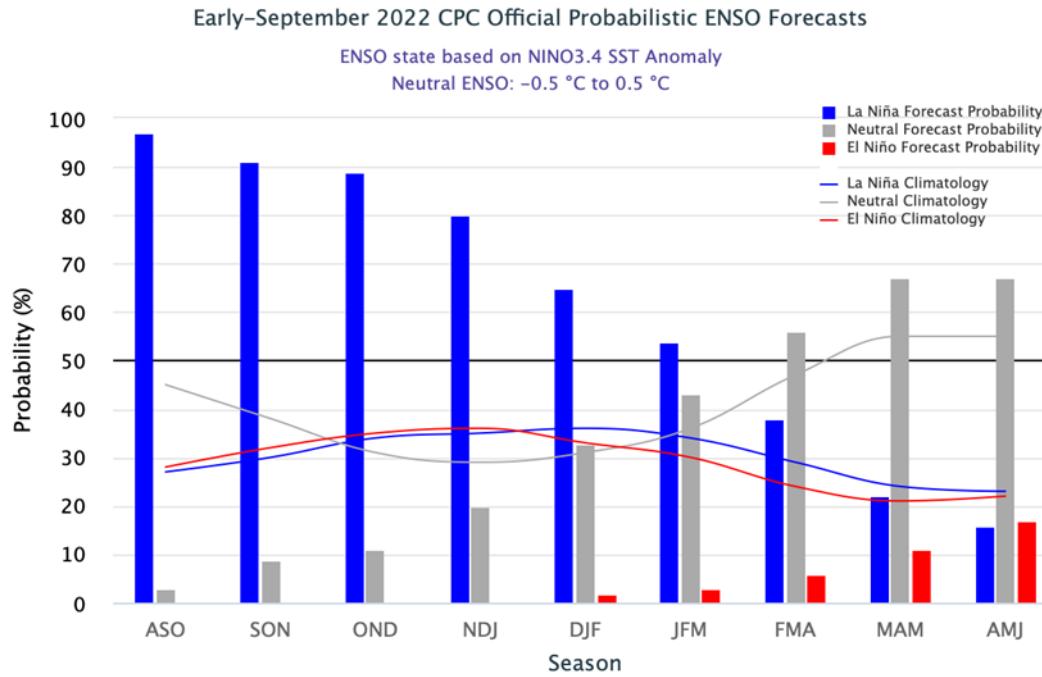


Cold Kelvin to arrive in South America in mid-September

ENSO Outlook

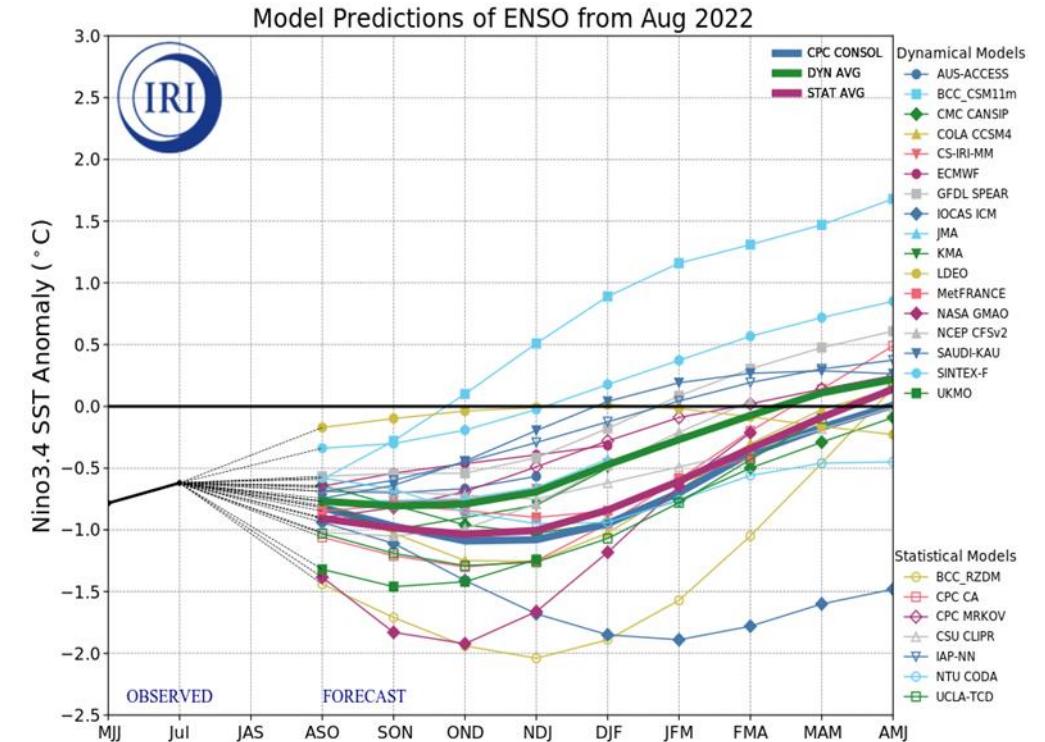
La Niña is favored to continue through Northern Hemisphere winter 2022-23, with a 91% chance in September-November, decreasing to a 54% chance in January-March 2023.*

CPC/IRI Probabilistic Forecast



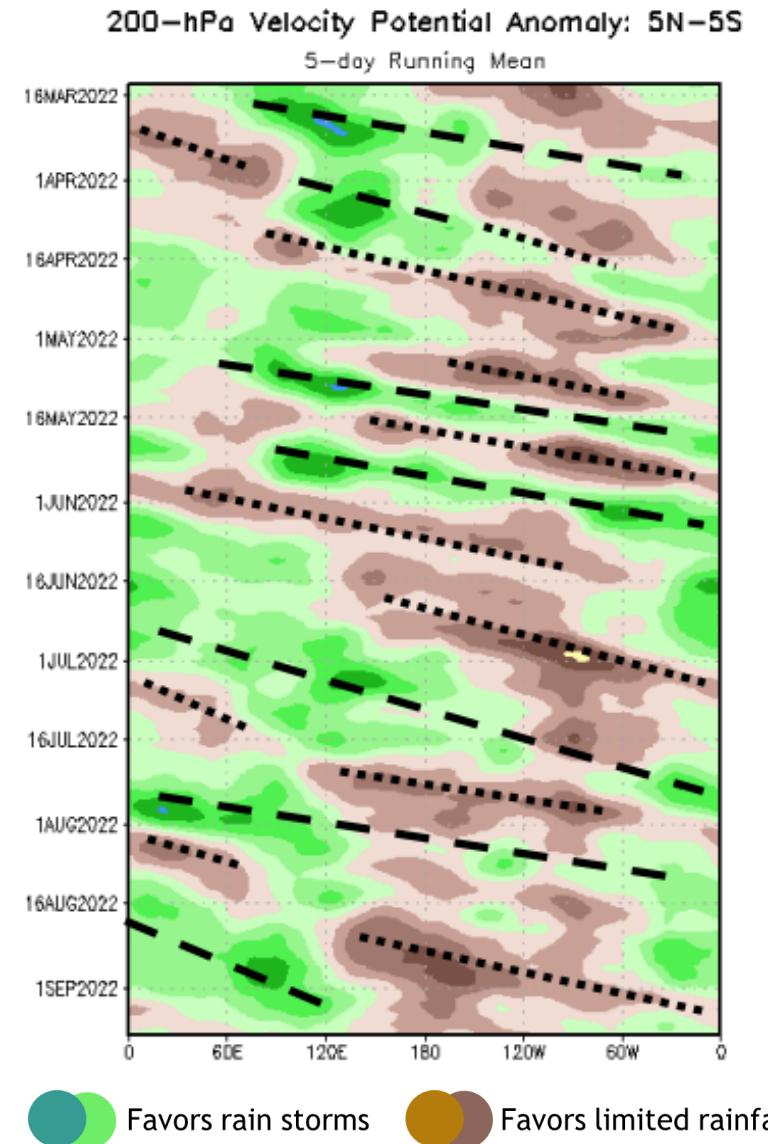
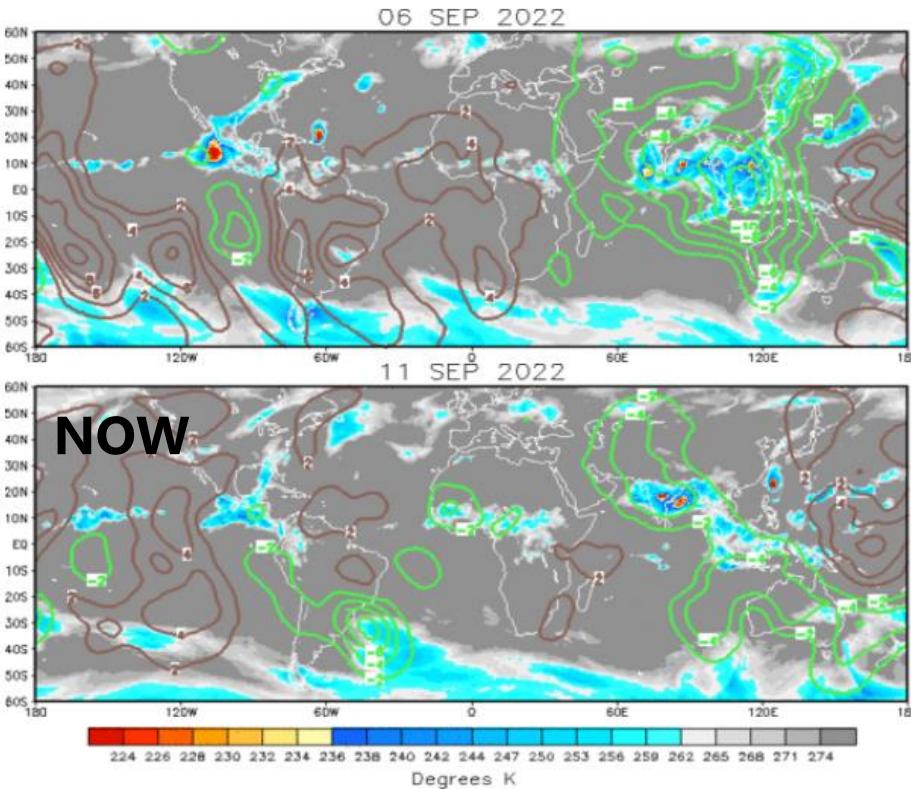
Source: CPC

IRI/CPC Dynamic Models



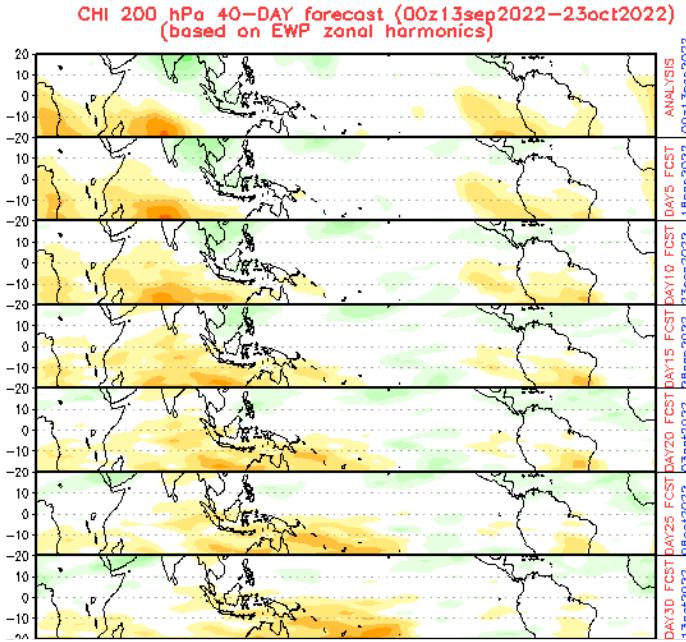
Madden-Julian Oscillation (MJO)

- The MJO is extremely disorganized.
- The incoherent pattern is a challenge for forecasting.
- Wet conditions tend to persist in the Maritime Continent.

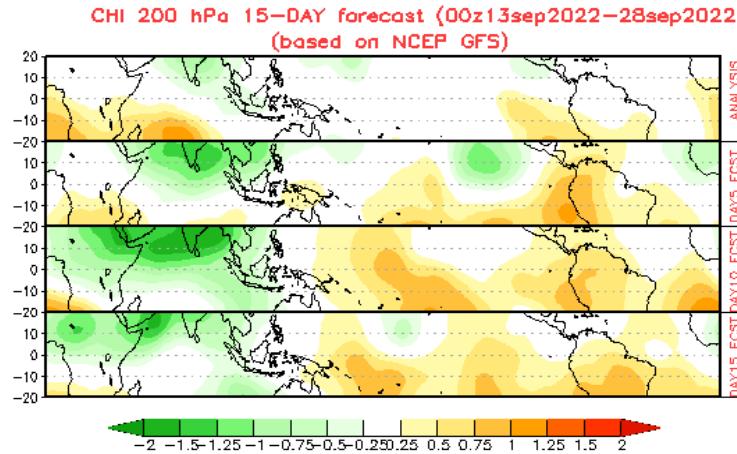


MJO Forecasts for the Americas

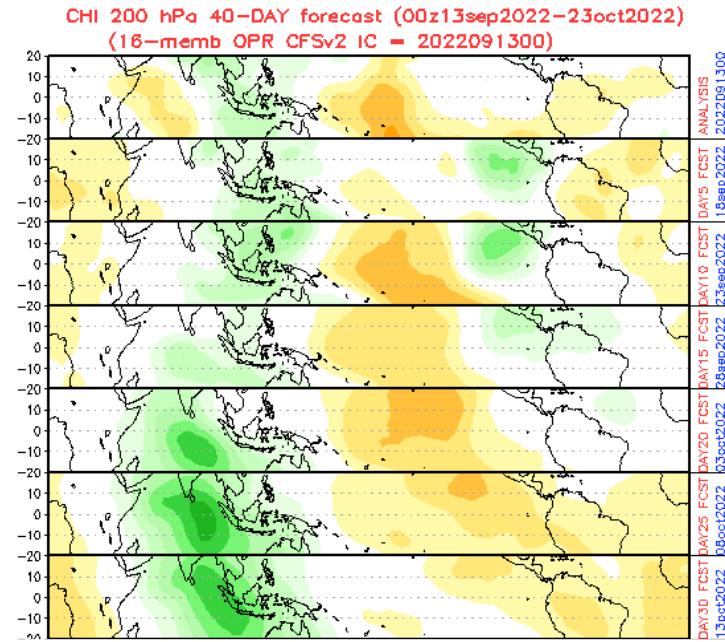
EWP



GFS

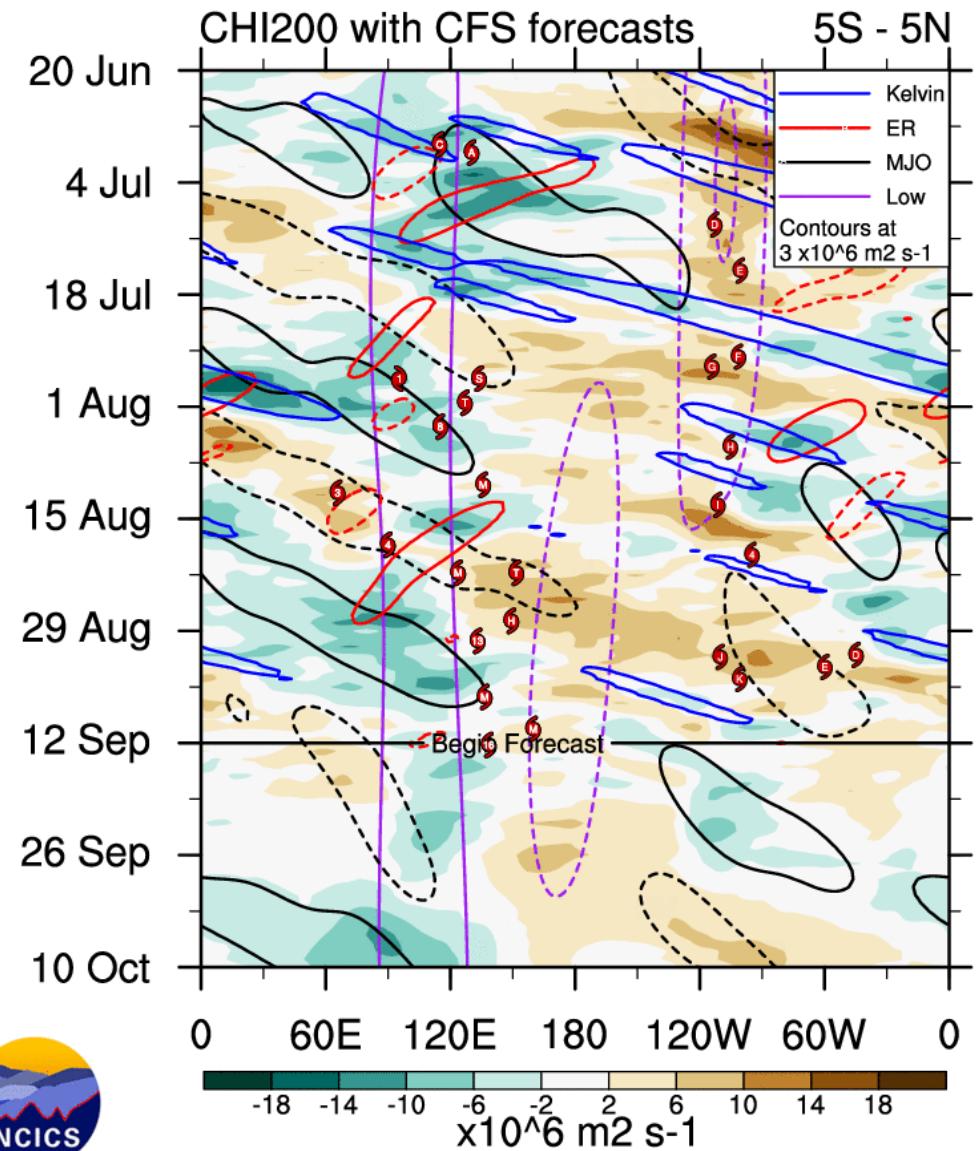
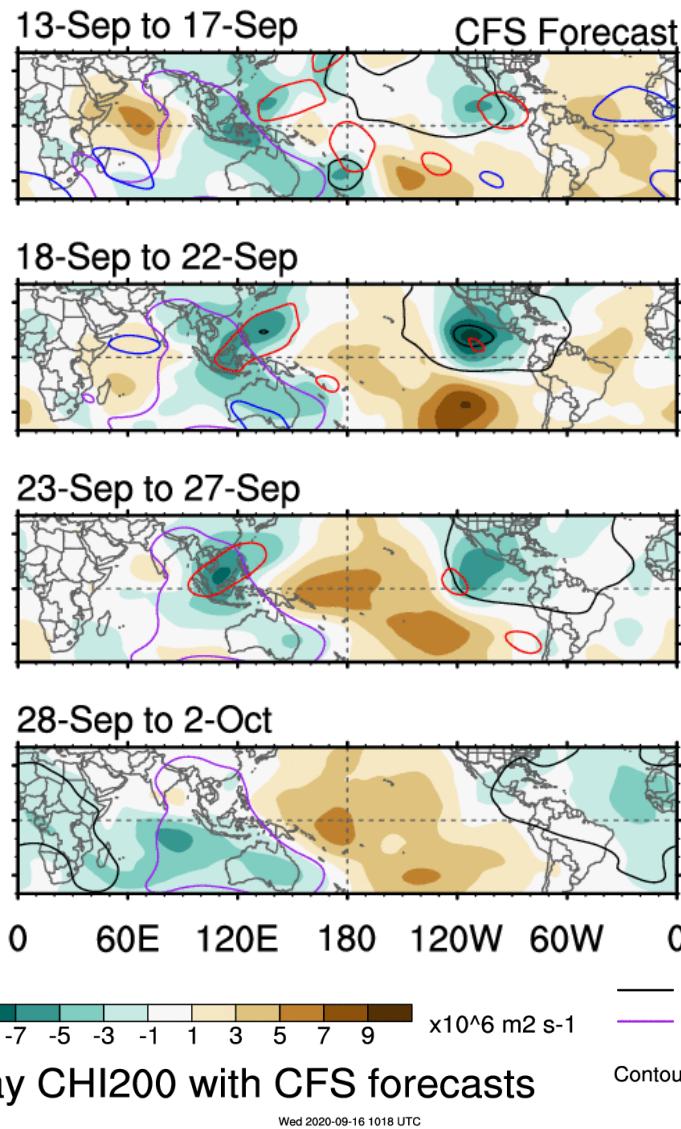


CFS



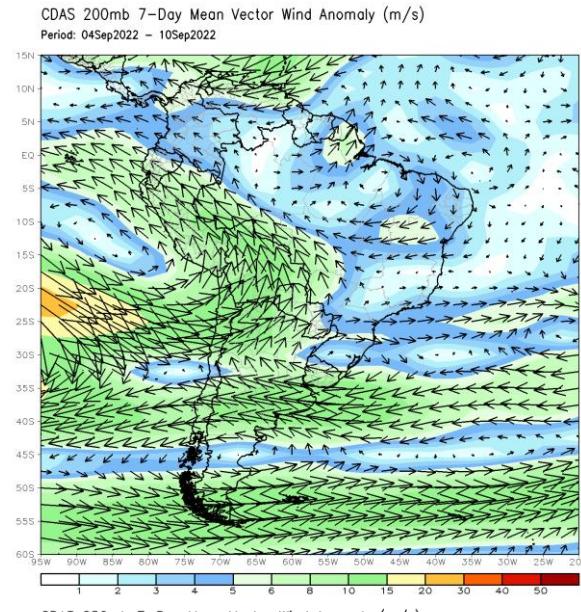
- Not coherent, hard to forecast.
- A few divergent pulses from Sep 16 through Sep 26
- Convergent again in early October?

Tropospheric Equatorial Waves

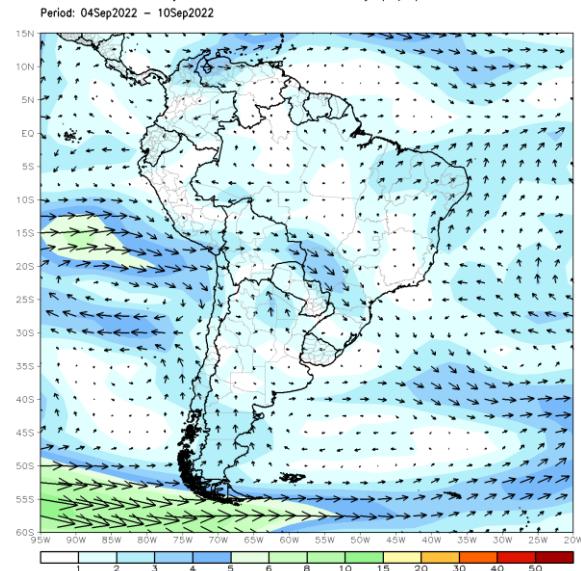


Flow and Rainfall Anomalies, Last 7 Days

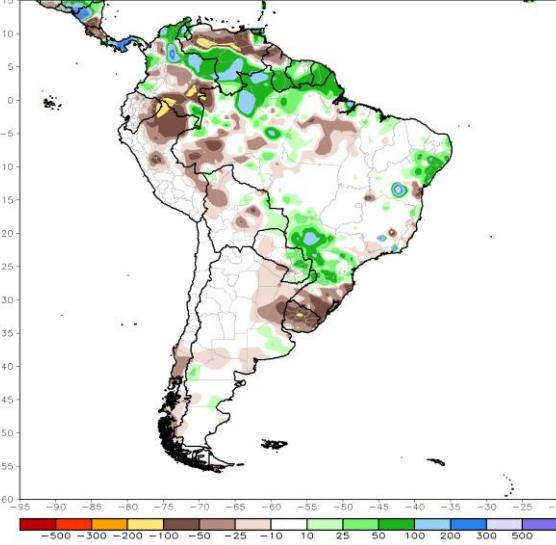
200 hPa Flow Anomalies



850 hPa Flow Anomalies

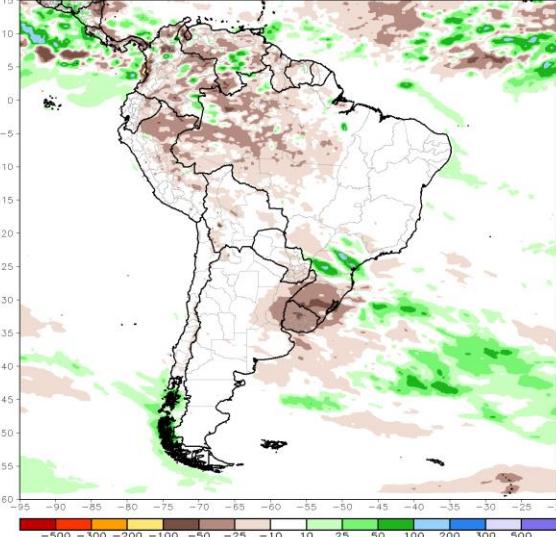


CPC Unified Gauge 30-Day Total Rainfall Anomaly (mm)
Period: 14Aug2022 – 12Sep2022



Gauges

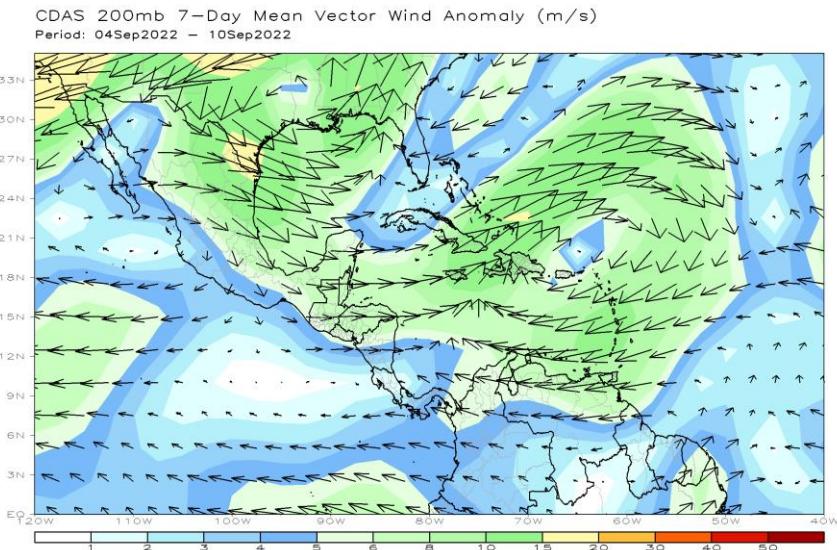
CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 05Sep2022 – 11Sep2022



CMORPH

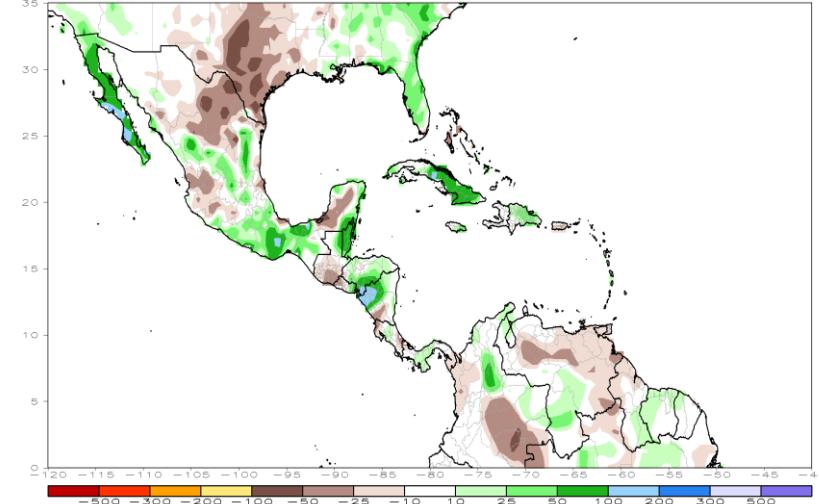
Flow and Rainfall Anomalies, Last 7 Days

200 hPa Flow Anomalies

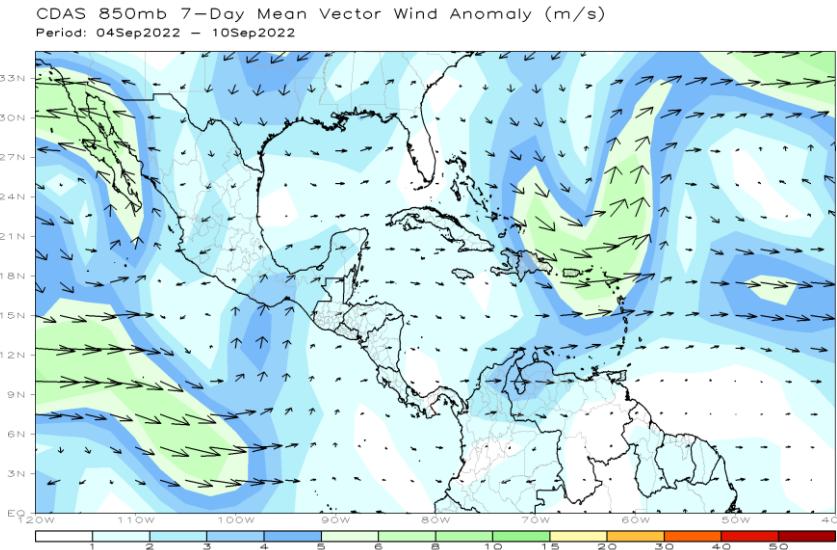


Gauges

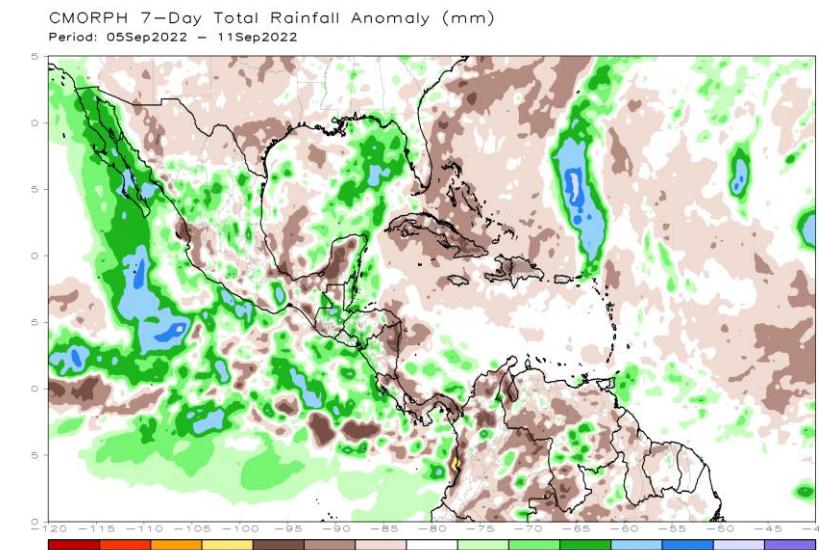
CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 06Sep2022 – 12Sep2022



850 hPa Flow Anomalies



CMORPH



¡Gracias!
Thank you!
¡Obrigado!

Next session: To be discussed

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