



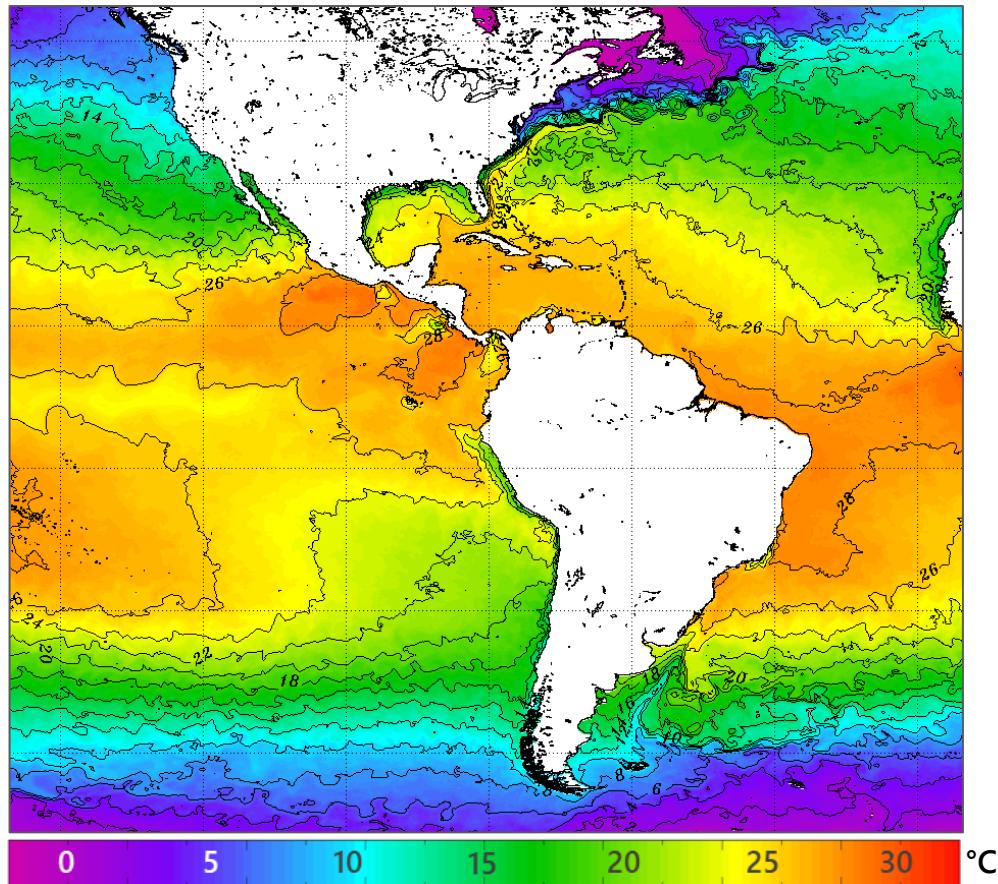
Monthly Regional Focus Group Session

Wednesday 9 March 2022

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

Sea Surface Temperatures

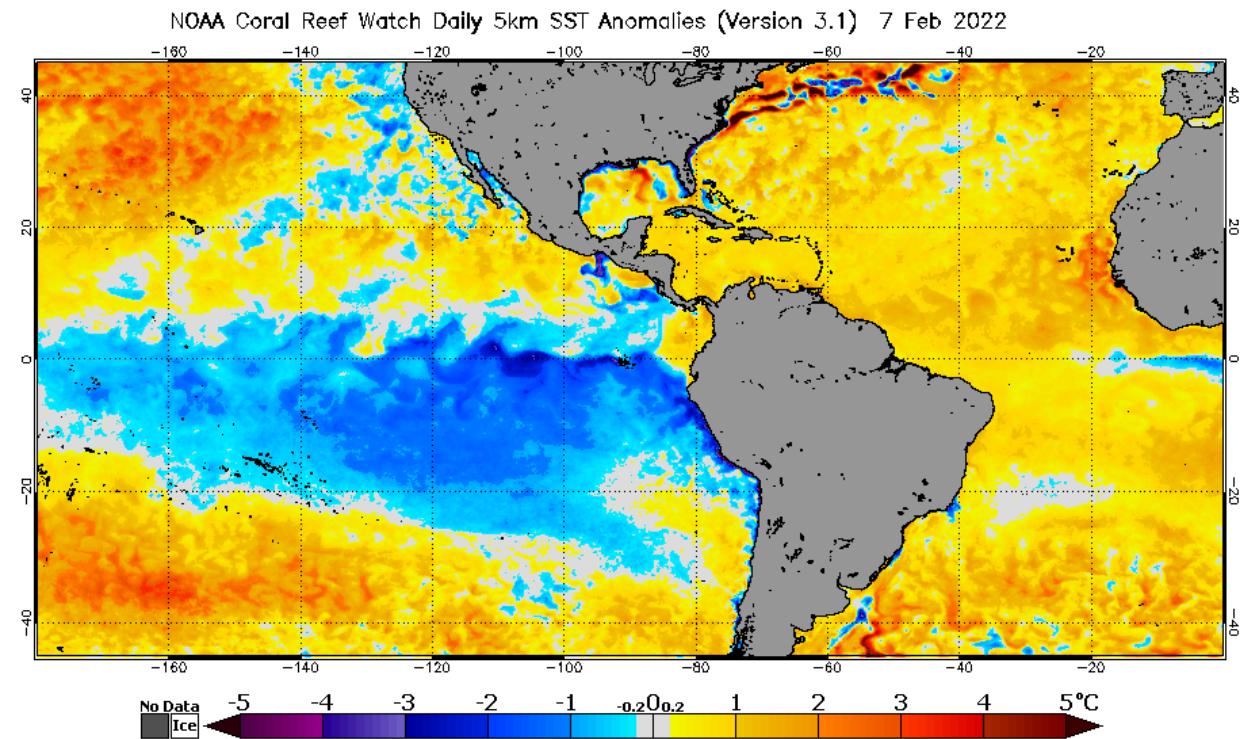
Daily SST Mar 07



NOAA OSPO

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

Anomaly Evolution



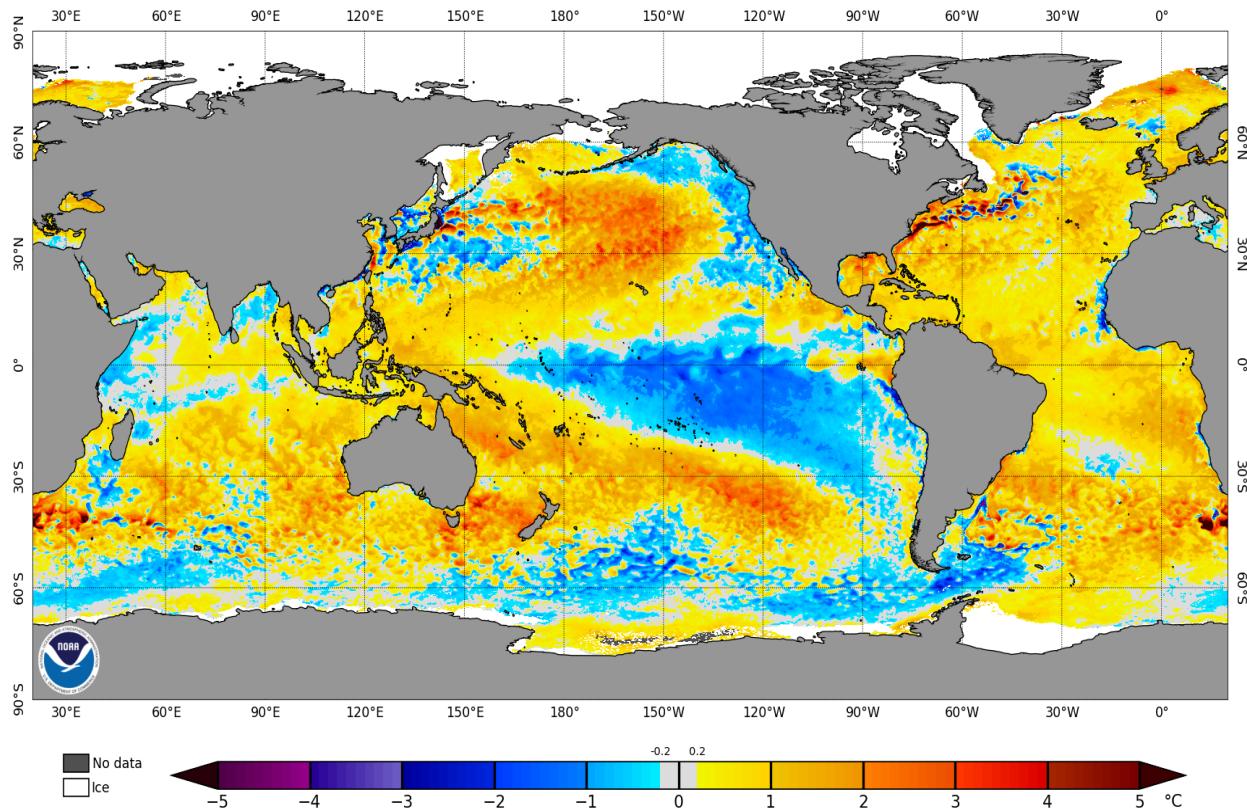
NOAA Coral Reef Watch

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

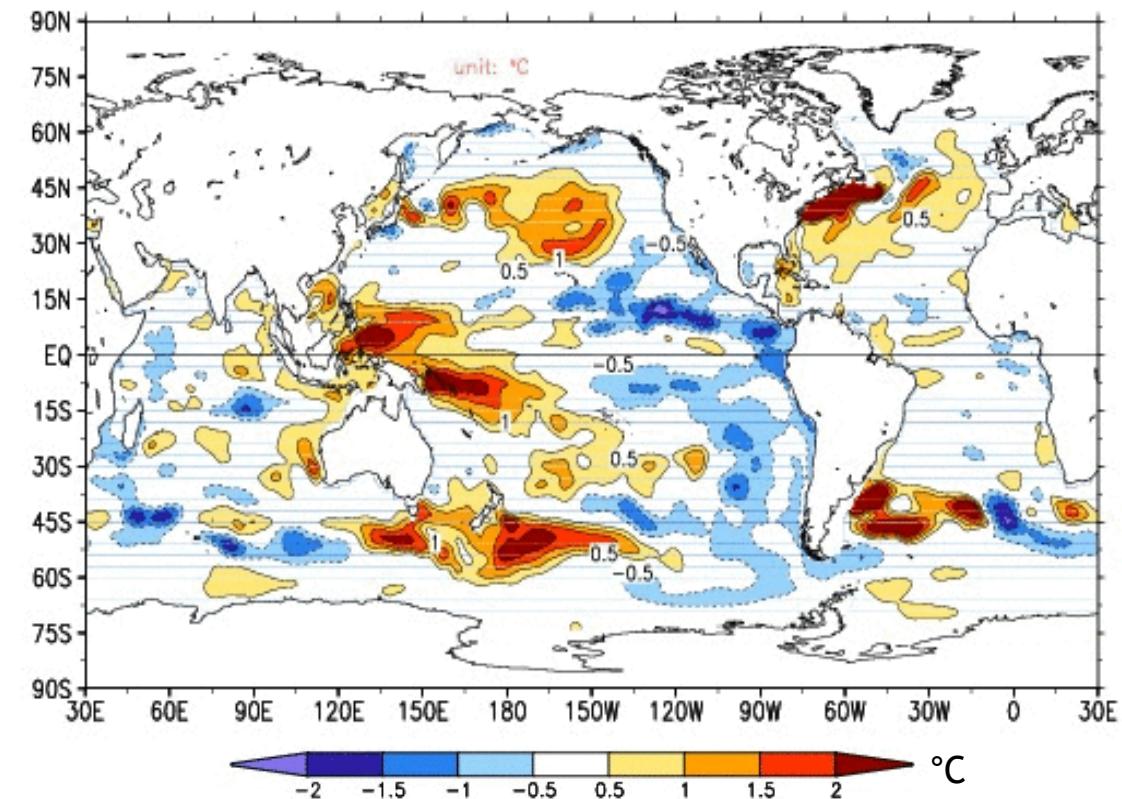
Are the anomalies deep?

Deep anomalies last longer, becoming useful for subseasonal forecasting.

Mar 07 SST Anomalies

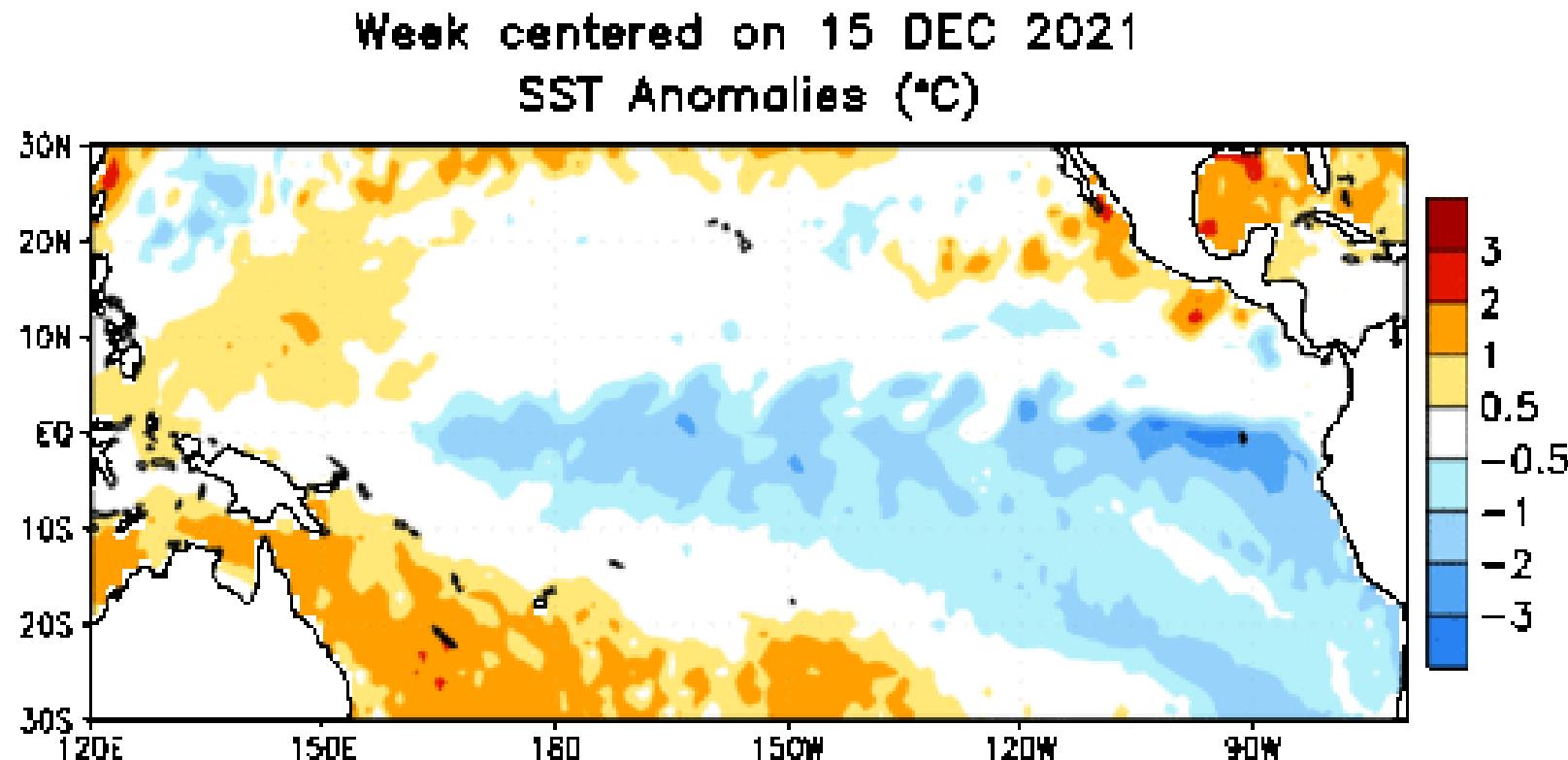


Mar 04 Top 300m Layer Anomaly (GODAS)



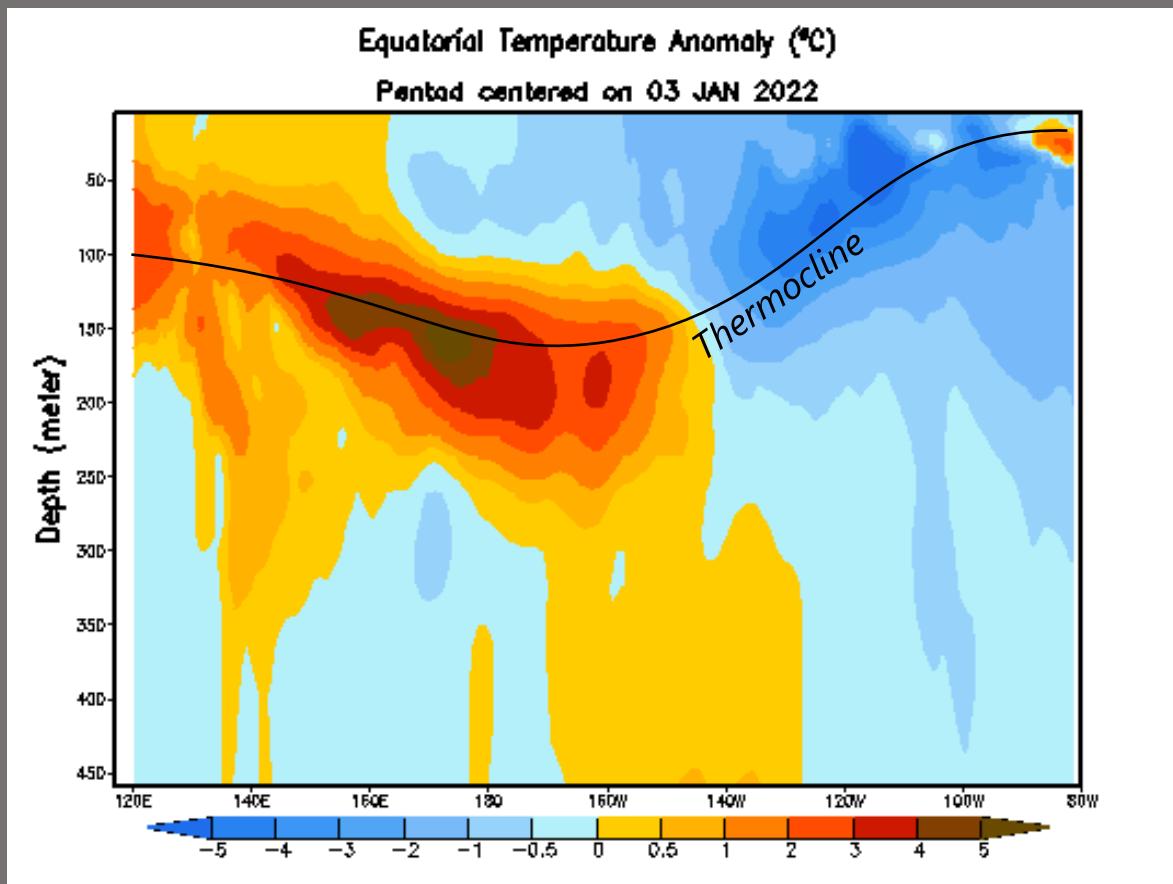
ENSO: La Niña

- ❖ 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.



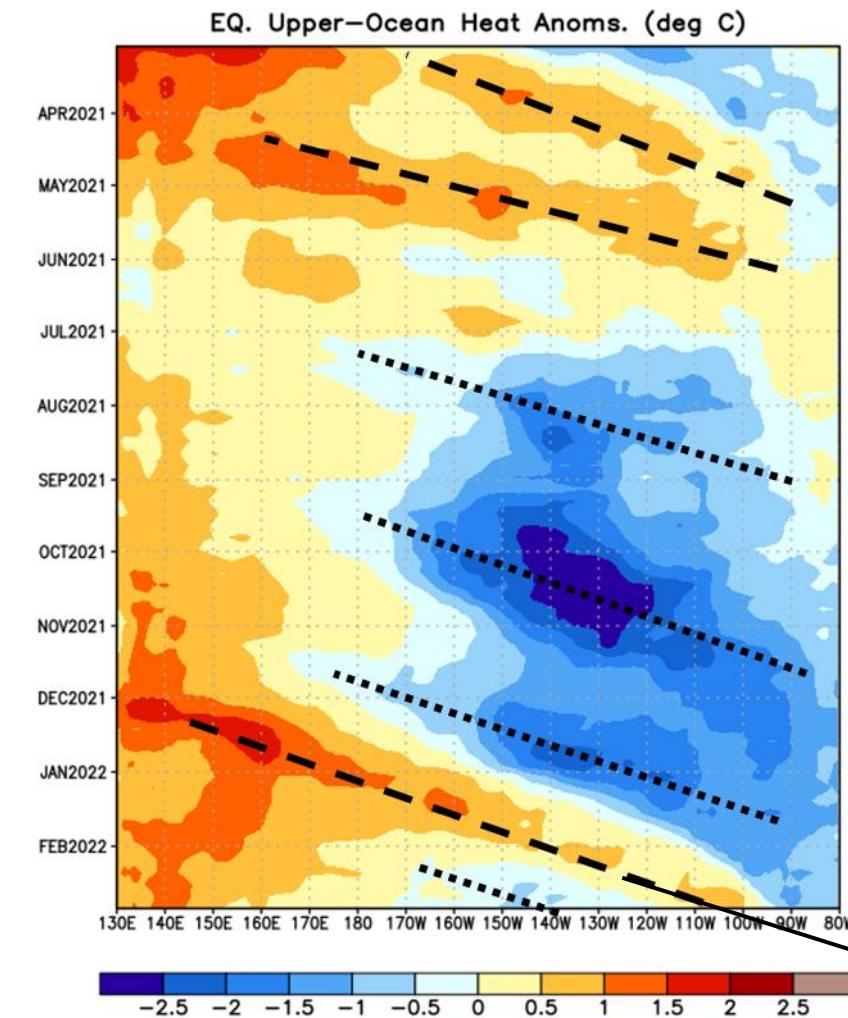
ENSO: Oceanic Kelvin Waves

Equatorial Pacific Temperature Anomaly Cross Section



Source: CPC

Heat Content Hovmöller

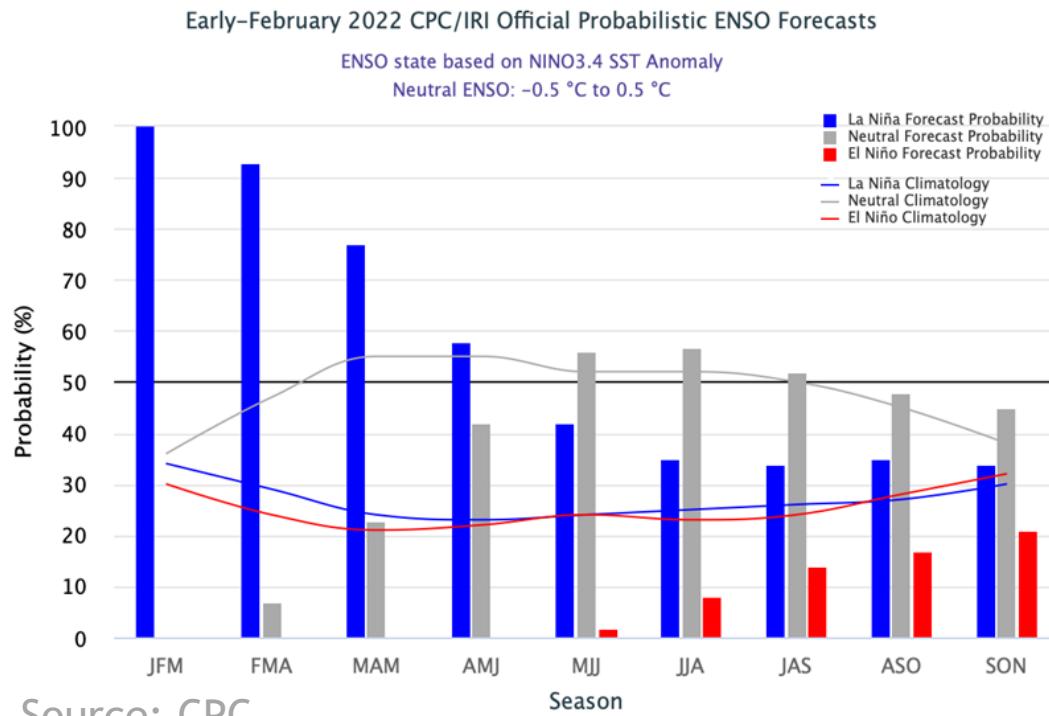


Brief Warming in
South America by
Late March.

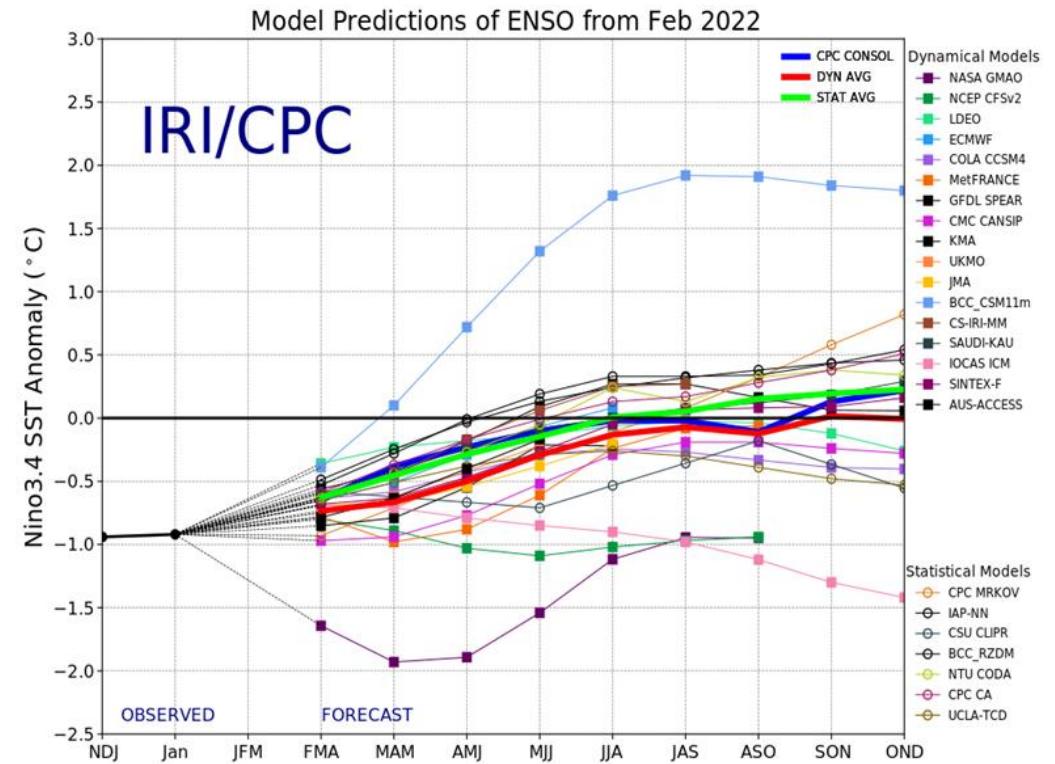
ENSO Outlook

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

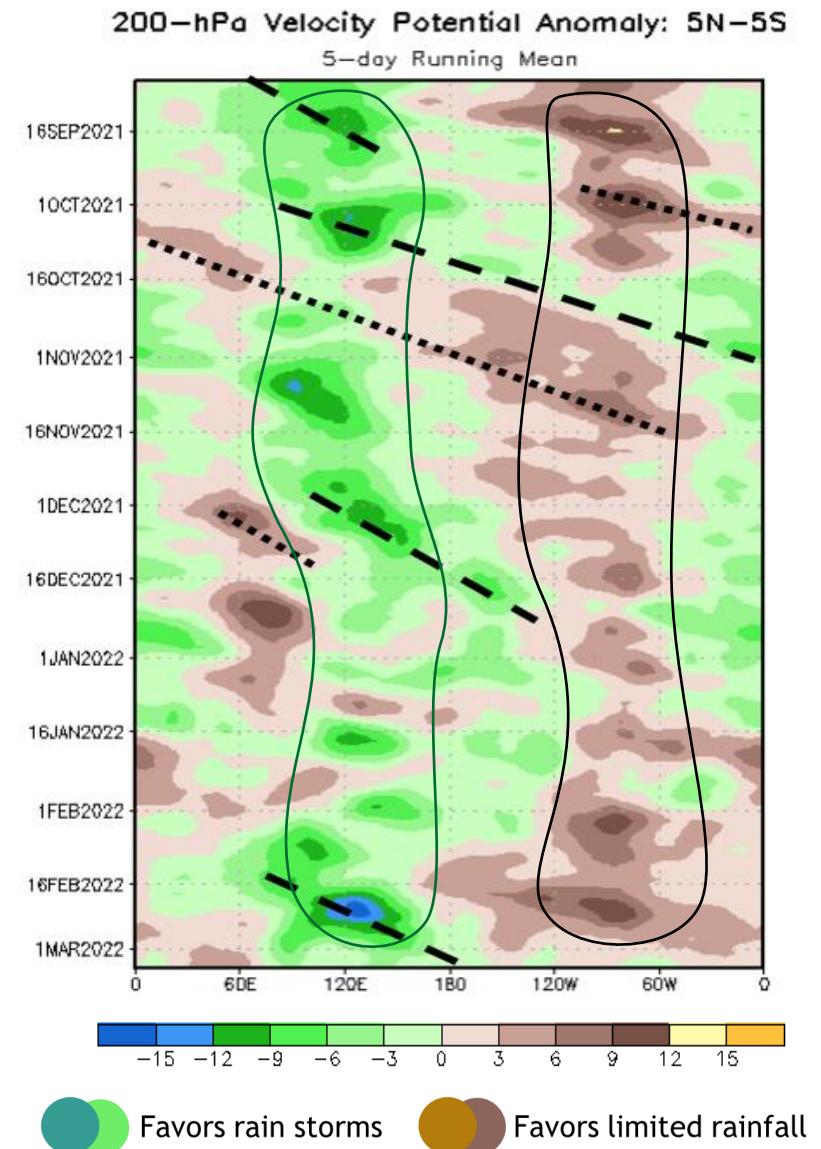
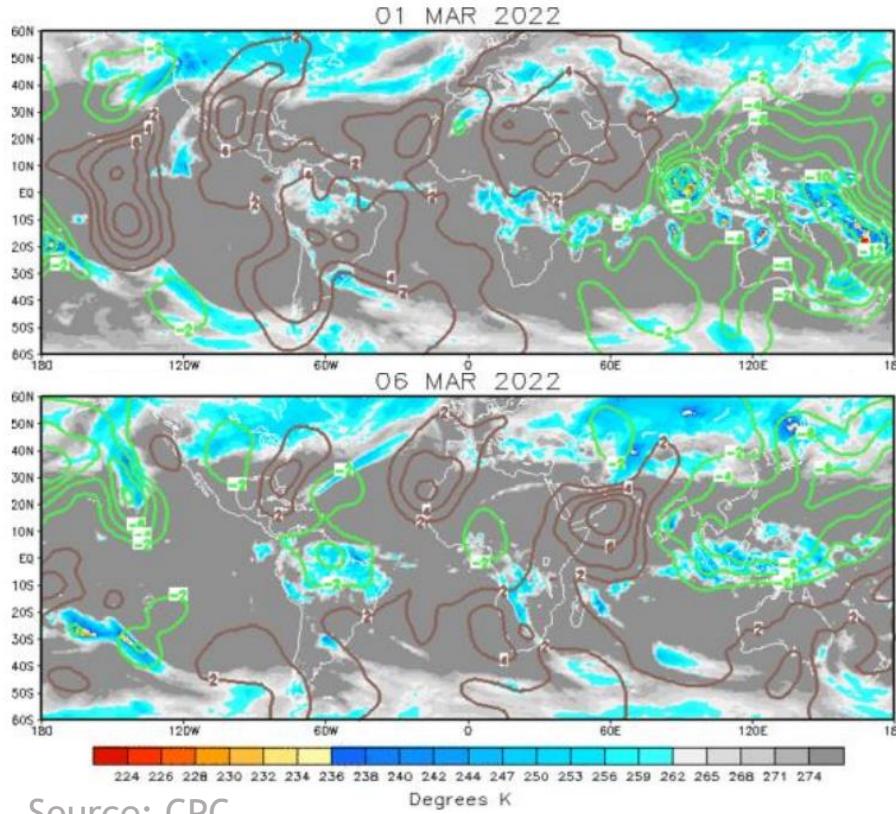


IRI/CPC Dynamic Models



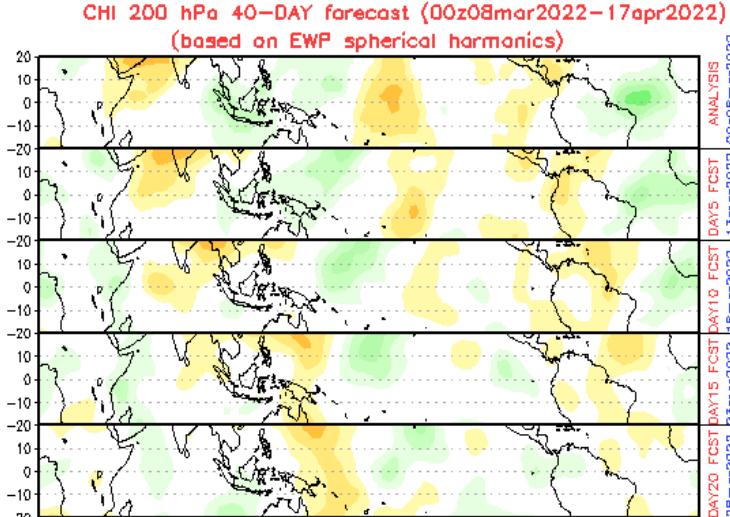
Madden-Julian Oscillation (MJO)

- Better organized than during the last two months, when Rossby Wave influence was prevalent.
- La Niña Low-frequency signal still dominant.
- Weak wet pulse crossing the Americas, now over the Atlantic.

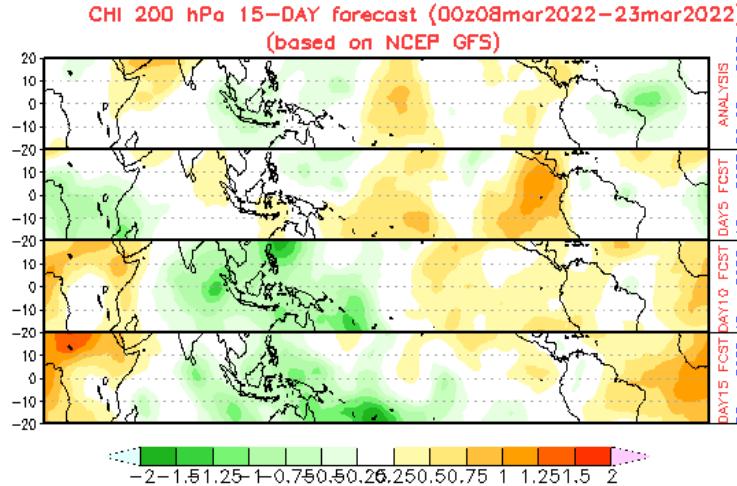


MJO Forecasts for the Americas

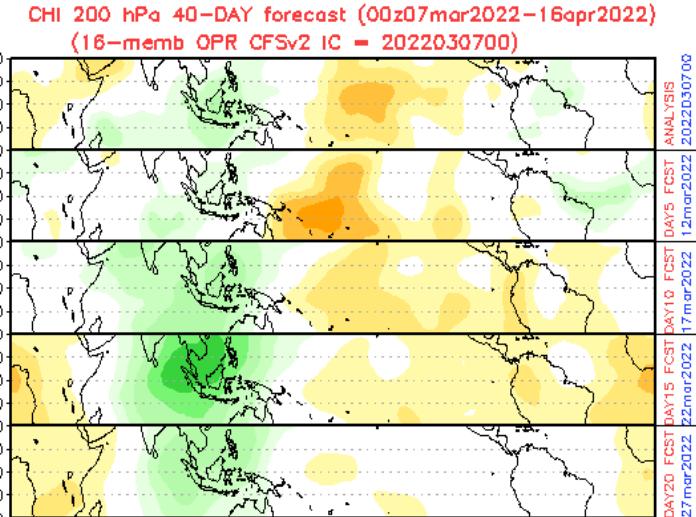
EWP



GFS



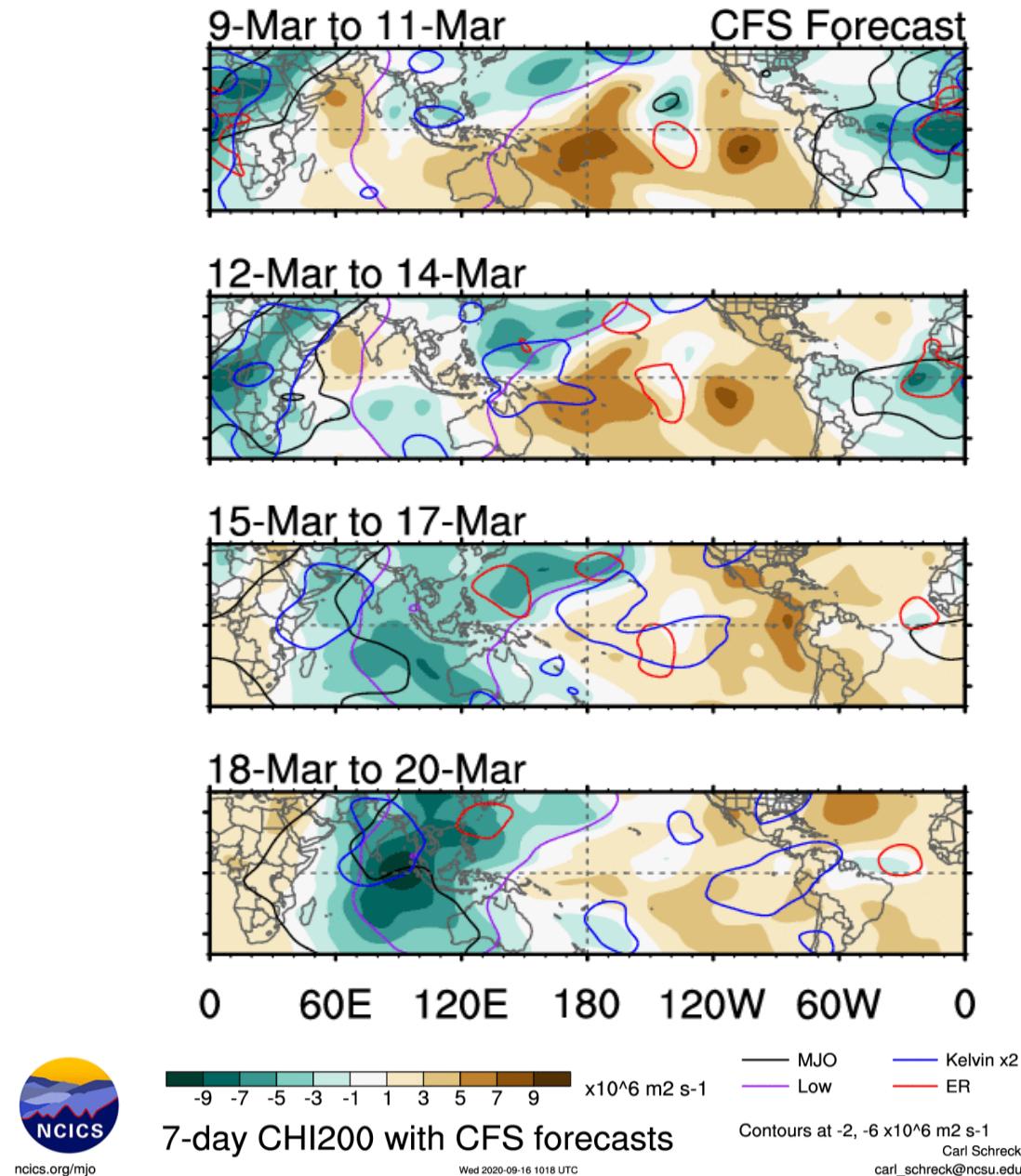
CFS



- Drier the rest of March
- Potentially wetter by the first week of April

Tropospheric Equatorial Waves

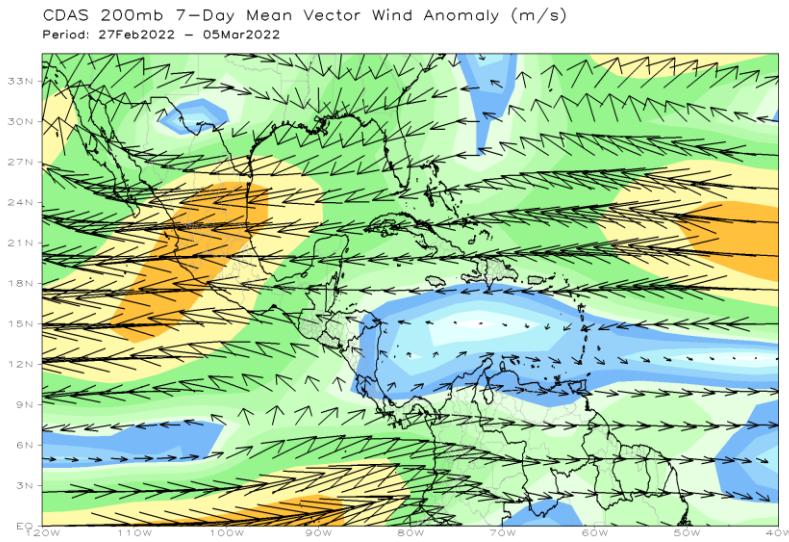
- Wet MJO: Guianas/N Brasil
 - Through March 12/13
- Upper convergent (dry): Rest of the month
- Next Kelvin (wet): March 18-23, equatorial South America
 - Limited influence due to dry MJO



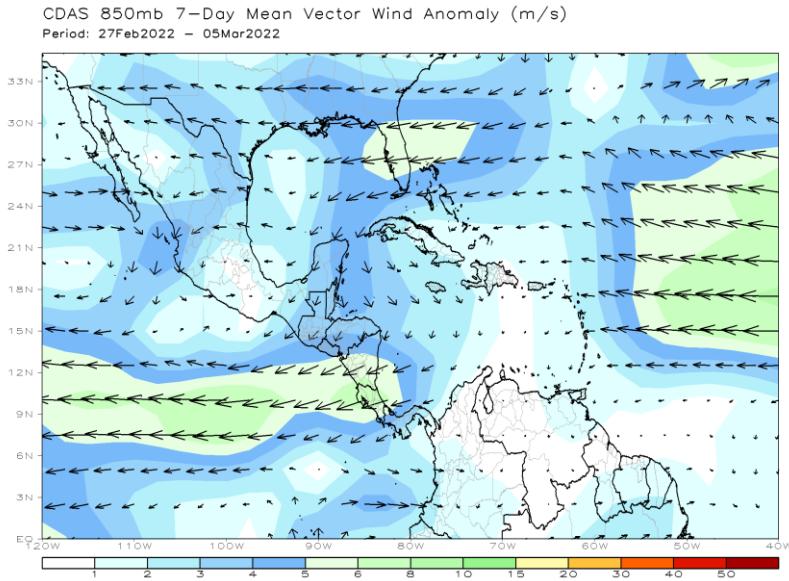
ncics.org/mjo

Flow and Rainfall Anomalies, Last 7 Days

200 hPa Flow Anomalies

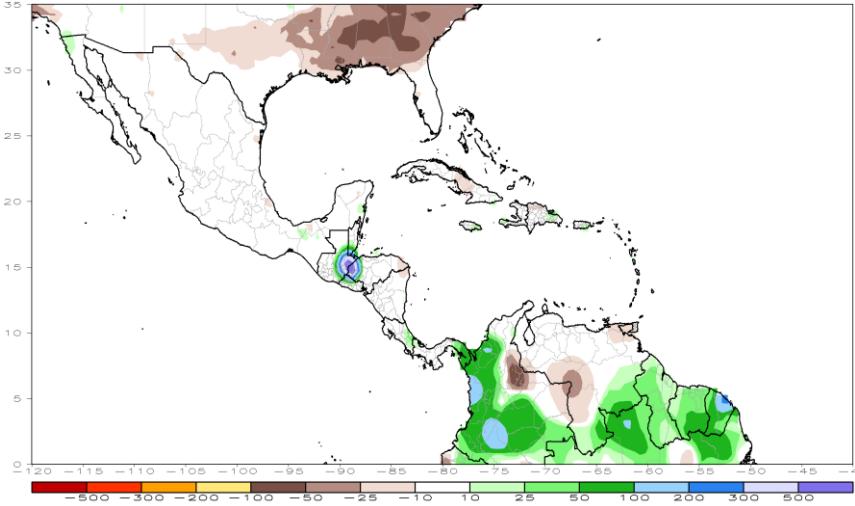


850 hPa Flow Anomalies



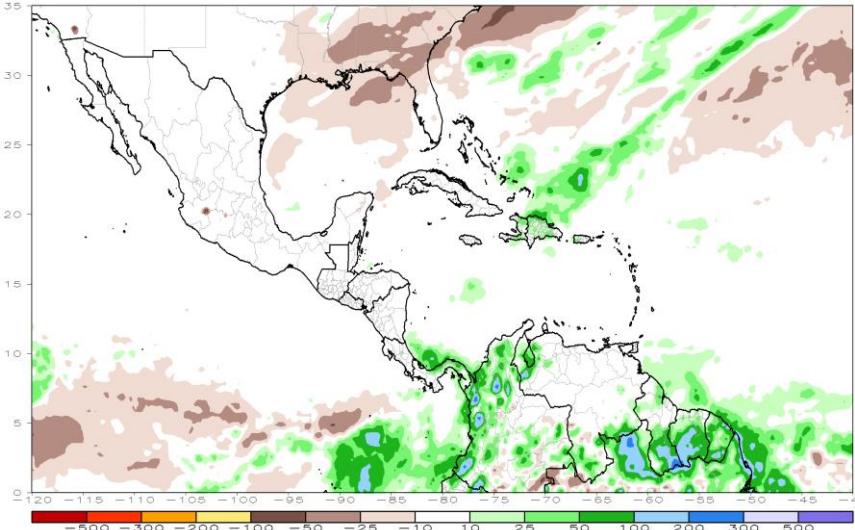
Gauges

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 01Mar2022 – 07Mar2022



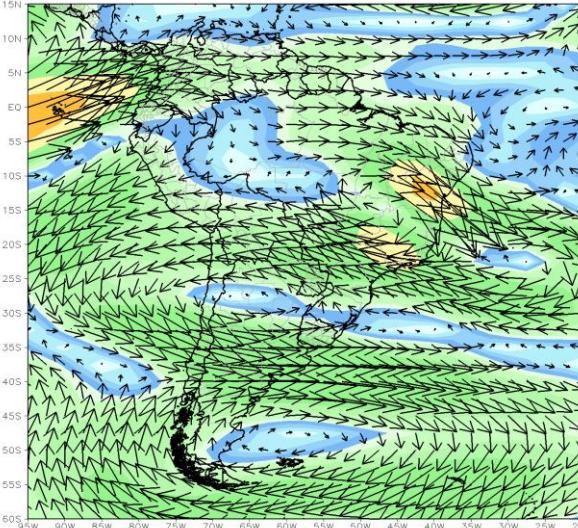
CMORPH

CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 01Mar2022 – 07Mar2022



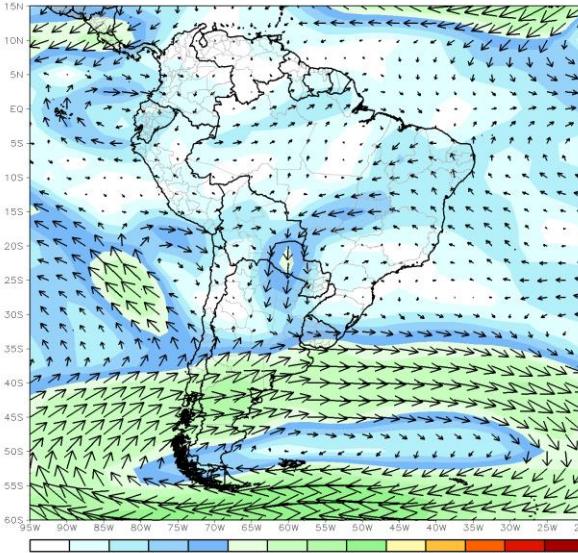
Flow and Rainfall Anomalies, Last 7 Days

CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 27Feb2022 – 05Mar2022



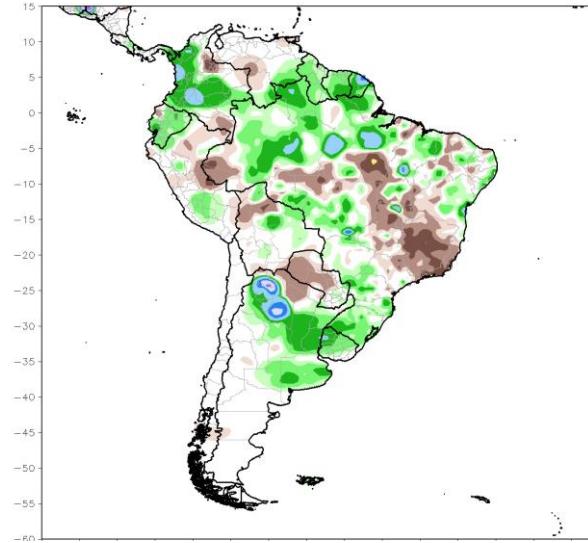
200 hPa Flow Anomalies

CDAS 850mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 27Feb2022 – 05Mar2022



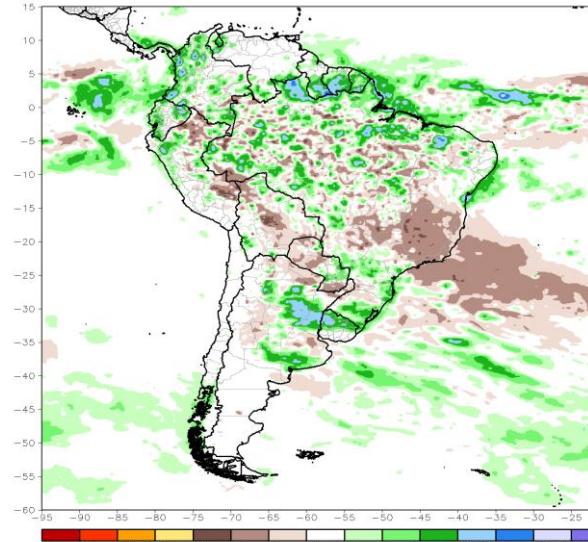
850 hPa Flow Anomalies

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 01Mar2022 – 07Mar2022



Gauges

CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 01Mar2022 – 07Mar2022



CMORPH

¡Gracias! Thank you!

**Next session:
Mid-April, to be defined soon**

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