Monthly Regional Focus
Group Session

Wednesday 28 April 2021
Sea Surface Temperatures

Anomaly Evolution Feb - April 25

SST April 18-24

Source: https://psl.noaa.gov/map/clim/sst.shtml
Are the anomalies deep?

*Deep anomalies tend to last longer and are useful for subseasonal forecasting.*

La Niña

- La Niña is present.*
- Equatorial sea surface temperatures (SSTs) are below average from the west-central to eastern Pacific Ocean.
- The tropical atmospheric circulation is consistent with La Niña.

Source: CPC
ENSO: Oceanic Kelvin Waves

Hovmöller: Heat Content

Equatorial Pacific Temp. Anomaly

Source: CPC
A transition from La Niña to ENSO-Neutral is likely in the next month or so, with an 80% chance of ENSO-neutral during May-July 2021.*
Madden-Julian Oscillation (MJO)

Source: CPC

Favors rain storms
Favors limited rainfall

7-day CHI200 with CFS forecasts

Contours at -2, -6 x10^6 m2 s^-1
Carl Schreck
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MJO Forecasts

Upper divergent phase now

Upper convergent through most of May
Last Week’s Circulation and Rainfall – Tropical Americas

200 hPa
Obs
Anomalies

500 hPa
Obs
Anomalies

850 hPa
Obs
Anomalies

Rainfall

Last Week’s Circulation and Rainfall – South America

Rainfall

CMORPH: CPC Morphing Technique
https://www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.html
¡Gracias!
Thank you!