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

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

Top 300m-Layer Anomaly (GODAS)

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

NOAA CPC
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

Sub superficial positive anomaly under the warm pool continues to build...
...no clear signal of propagation yet...

Source: CPC
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).*
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.

5-day CHI200 with CFS forecasts

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MJO Forecasts for the Americas

- 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

Gauges

Satellite – Estimated Rainfall

CMORPH

CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 08Jun2022 – 14Jun2022

CMORPH 7-Day Total Rainfall Anomaly (mm)
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CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 08Jun2022 – 14Jun2022

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 08Jun2022 – 14Jun2022

200 hPa Flow

Average

Anomaly

850 hPa Flow

Average

Anomaly
Caribbean, Central America and Mexico, Last 7 Days
¡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.