Monthly Regional Focus
Group Session

Wednesday 20 October 2021
Sea Surface Temperatures

Anomaly Evolution

Daily SST Oct 17

https://psl.noaa.gov/map/clim/sst.shtml

https://www.nnvl.noaa.gov/view/globaldata.html#SSTA
Are the anomalies deep?

Deep anomalies tend to last longer, becoming useful for subseasonal forecasting.

Top 300m Layer Anomaly


Source: NOAA/PDL, Base Period: 1971-2000

Source: https://psl.noaa.gov/map/clim/sst.shtml
ENSO: La Niña

- Status: La Niña Advisory
- La Niña conditions have developed.
- Equatorial SSTs are below average across the central and east-central Pacific Ocean.
- The tropical Pacific atmosphere is consistent with La Niña.
ENSO: Oceanic Kelvin Waves

Heat Content Hovmöller

Equatorial Pacific Temp. Anomaly

Source: CPC
La Niña is expected to continue with an 87% chance in December 2021 - February 2022.*
Madden-Julian Oscillation (MJO)

CPC Analysis:
- A stationary pattern continues since mid-August
- Wave 1 pattern has dissapeared
- Upper divergent (wet) shifting east from the dateline, slowly
- Upper convergent (dry) low frequency signal over the Americas
• Disorganized MJO, not very useful for forecasting
• Weak upper divergent pulses through the end of October.
• November is unclear, upper convergent possible.
Tropospheric Equatorial Waves

- Wet weak MJO pulse through Nov 1
- Wet Kelvin Wave Oct 25-31
- Becoming convergent (dry) on Nov?
  - Signature best defined on CFS
  - Upper convergence has been prevalent

To monitor:
- Potential Trop. Cyclone in Mexico’s Pacific (Oct 23-28)
- MCS Paraguay/NE Argentina/S Brasil (Oct 23-25)
- Intensification of Panamanian Low and Upper trough in Eastern Caribbean. Rains in Colombia/Venezuela/Guyana during weekend and next week. Confidence still low.
Last Week’s Circulation and Rainfall – Tropical Americas

CMORPH: CPC Morphing Technique
https://www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.html
Last Week’s Circulation and Rainfall – South America

200 hPa

850 hPa

Anomalies

Rainfall

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¡Gracias!
Thank you!