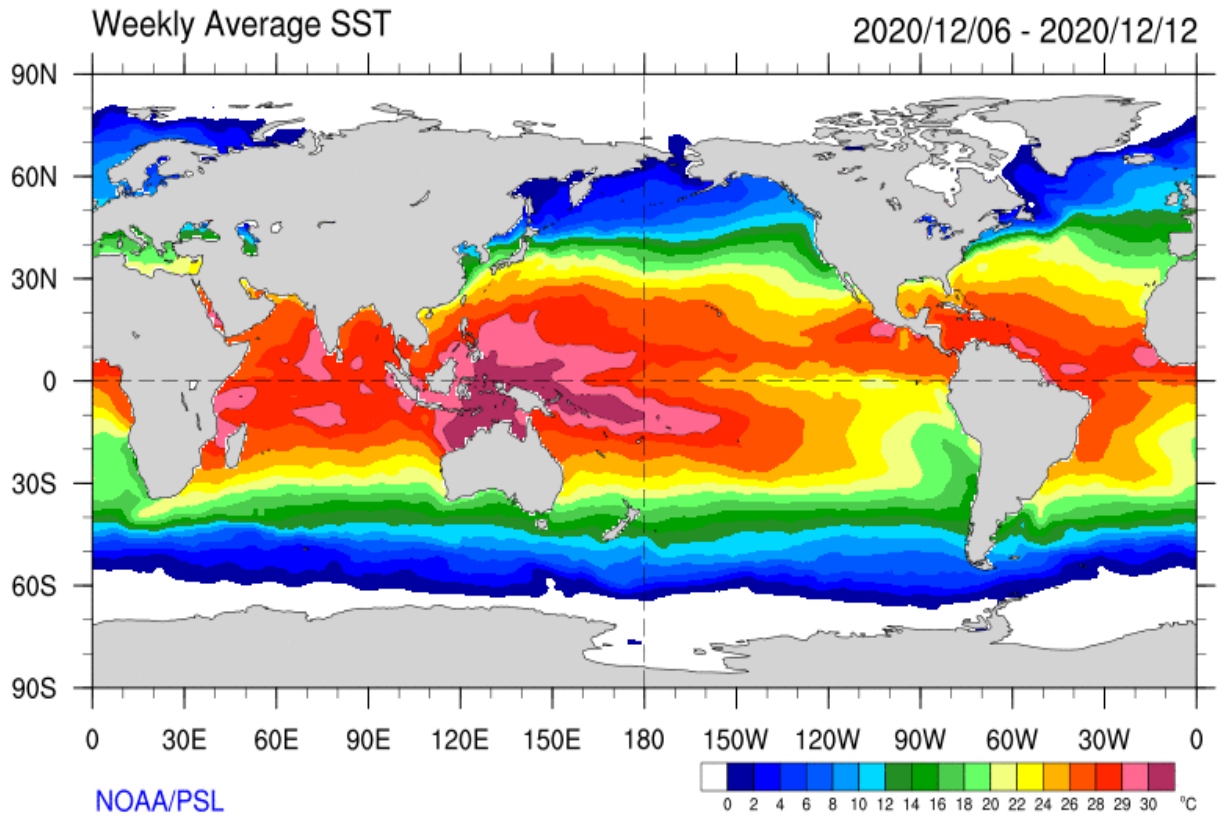
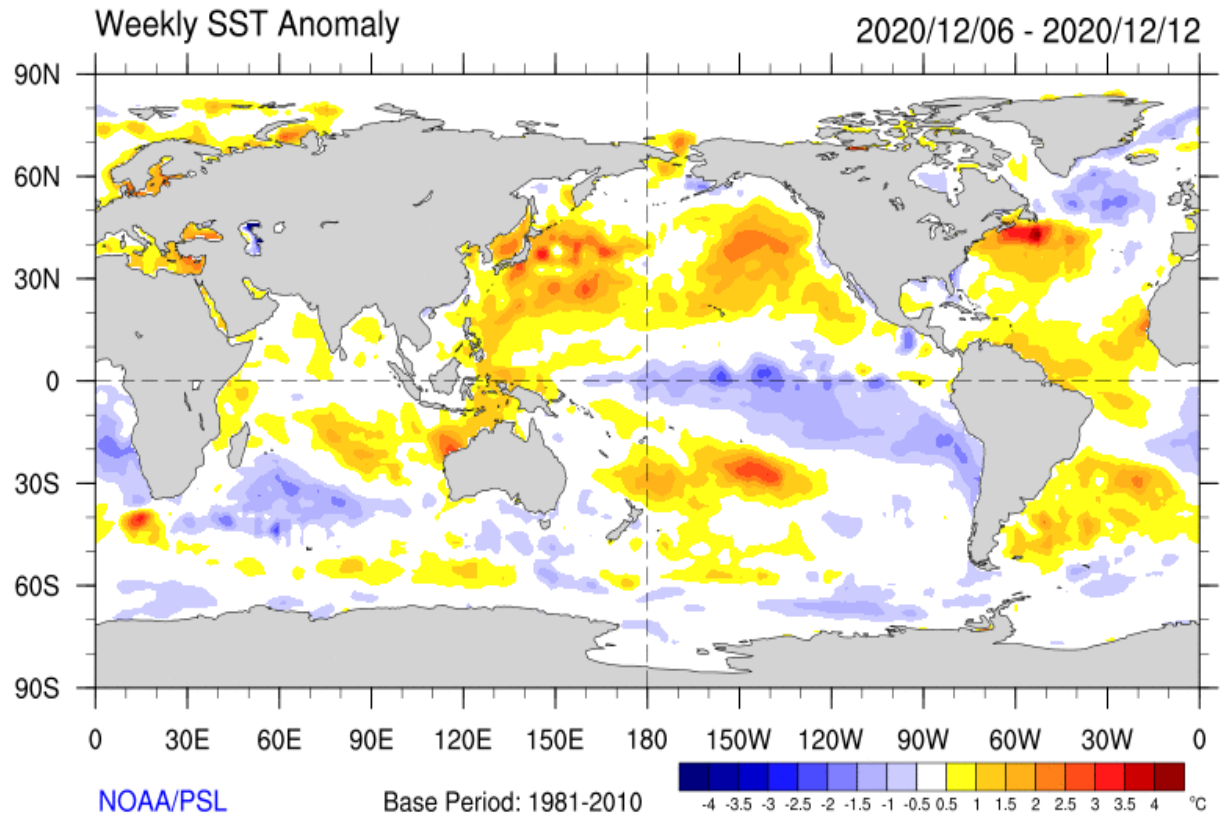
Monthly Regional Focus Group Session

Wednesday 16 December 2020

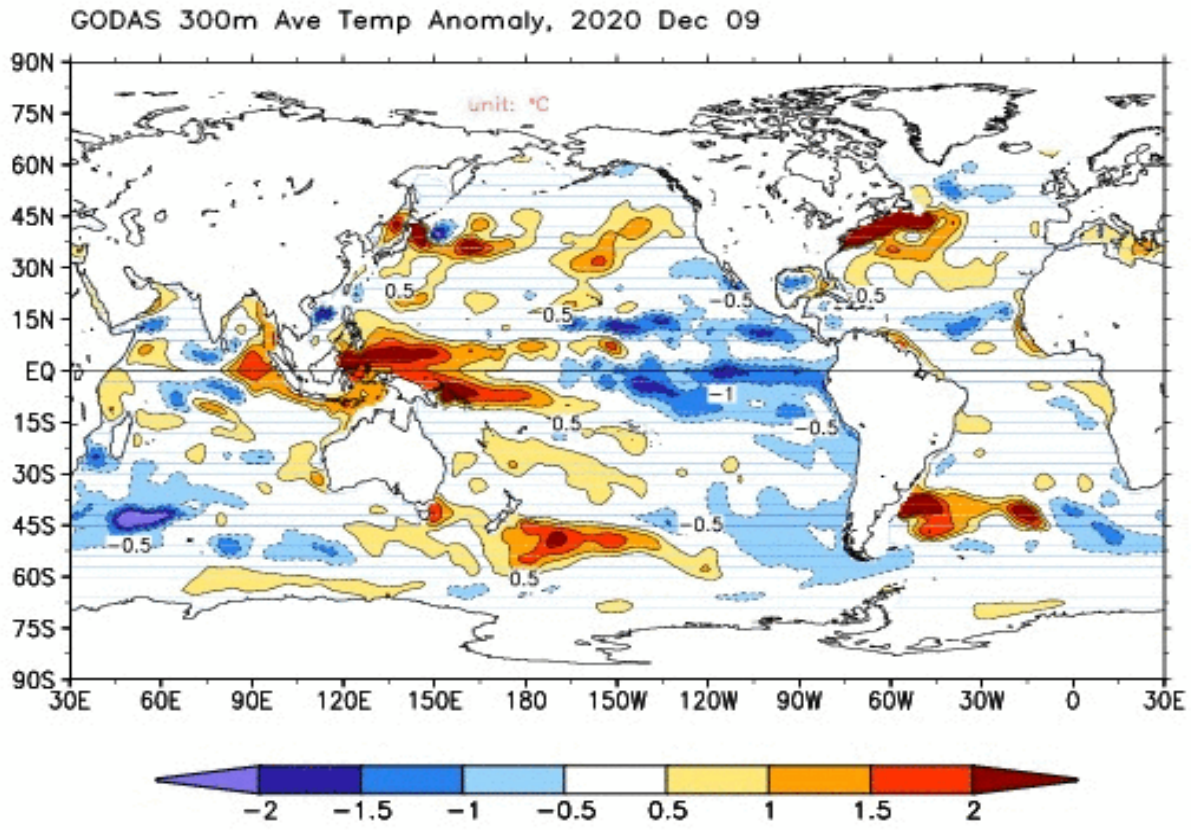
Sea Surface Temperatures (Last Week)



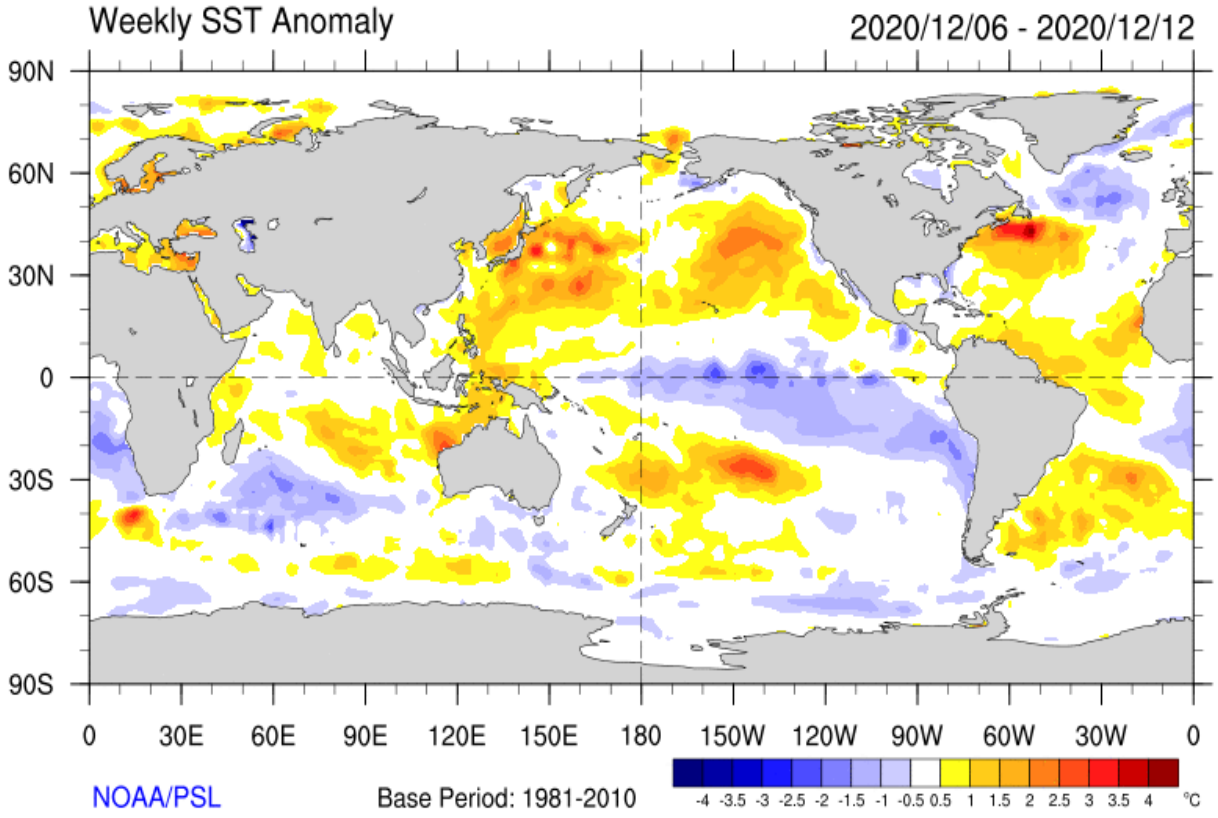


Deep Ocean Temperature Anomalies last longer:

Top 300-m Sea Temperature Anomaly



Sea Surface Temperature Anomaly



Source: GODAS, CPC

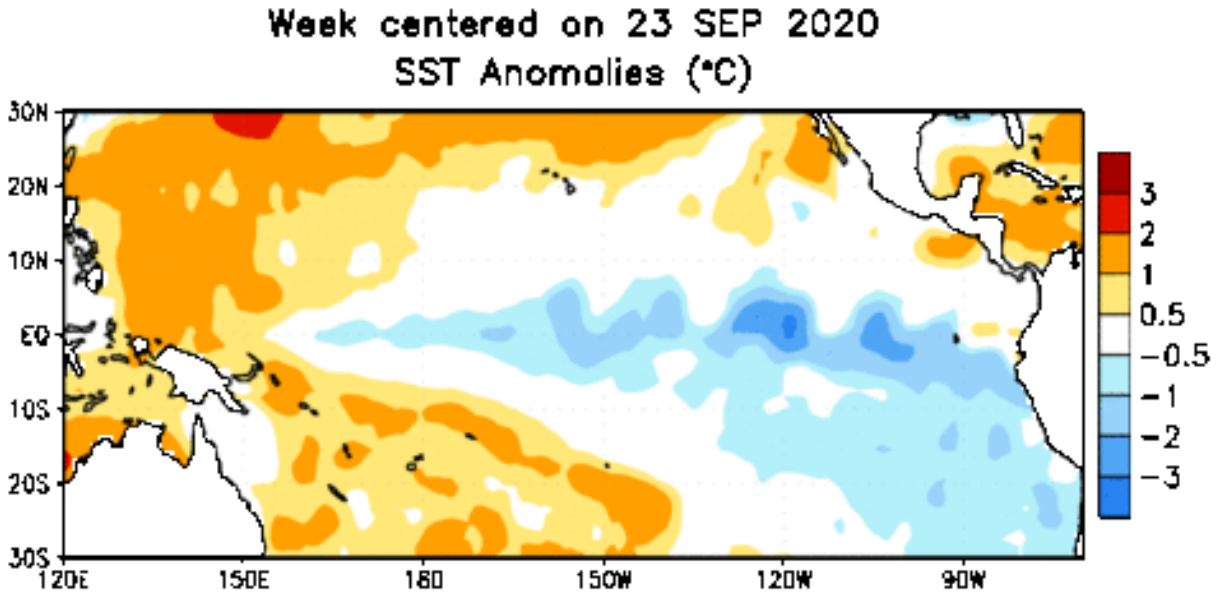
ENSO: La Niña

La Niña conditions are present.*

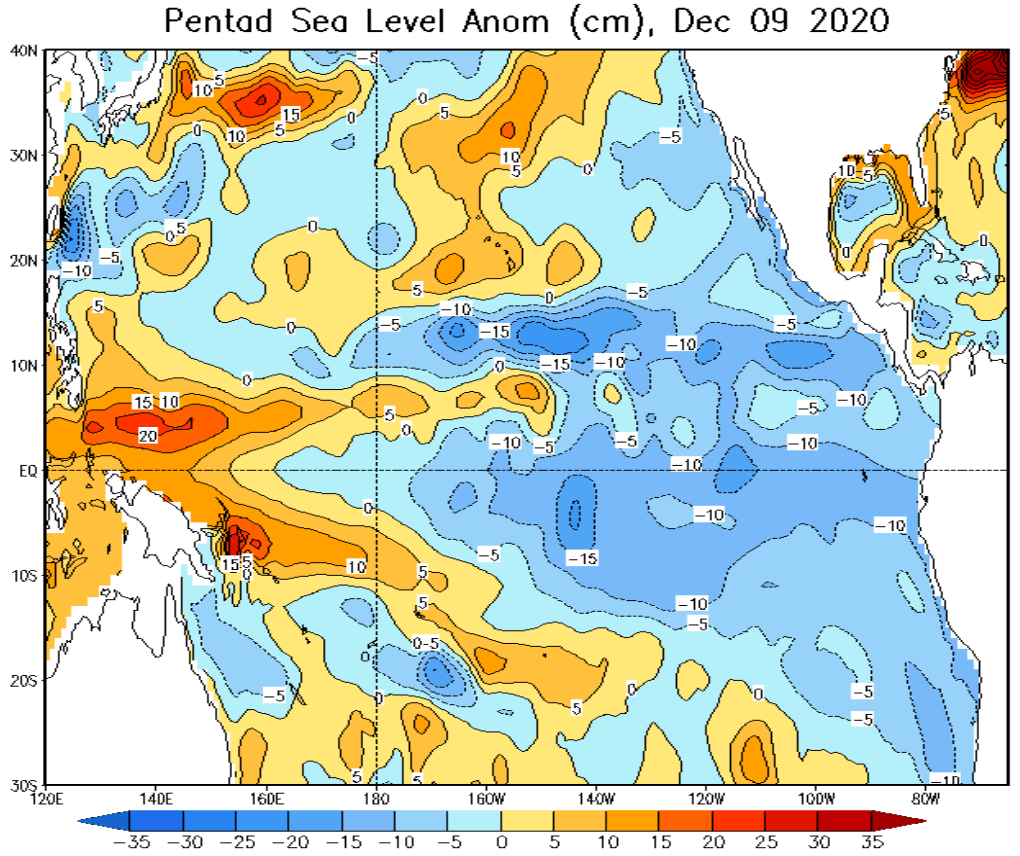
Equatorial sea surface temperatures (SSTs) are below average from the west-central to eastern Pacific Ocean.

The tropical atmospheric circulation is consistent with La Niña.

Temperature Anomalies



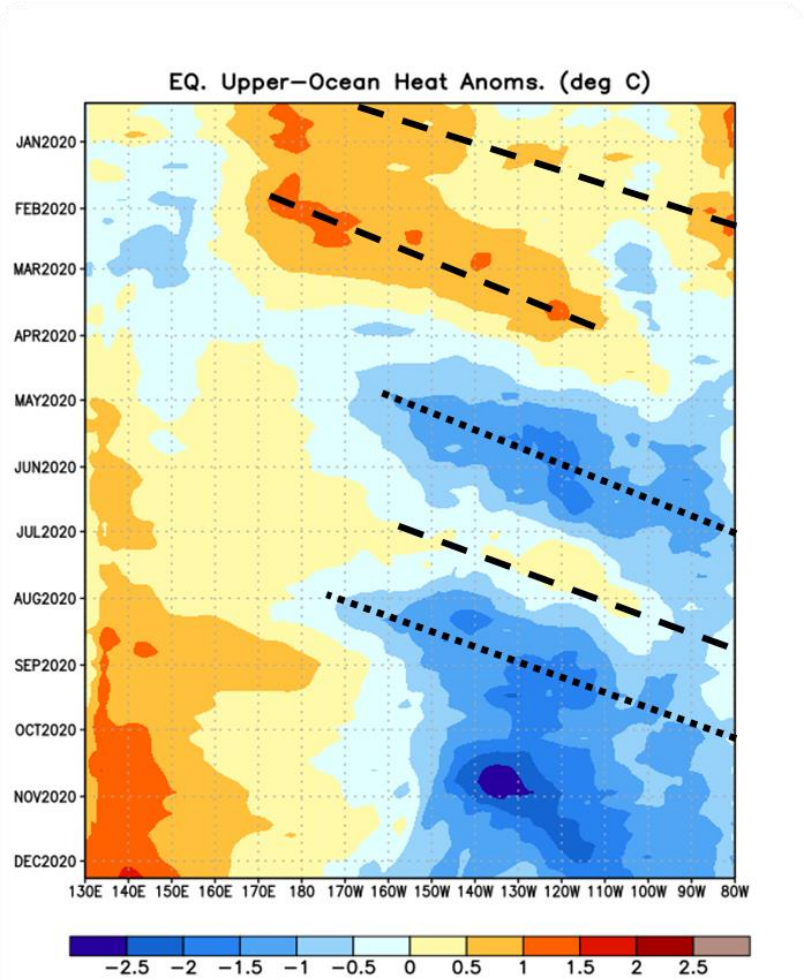
Sea Level Anomalies



Source: CPC

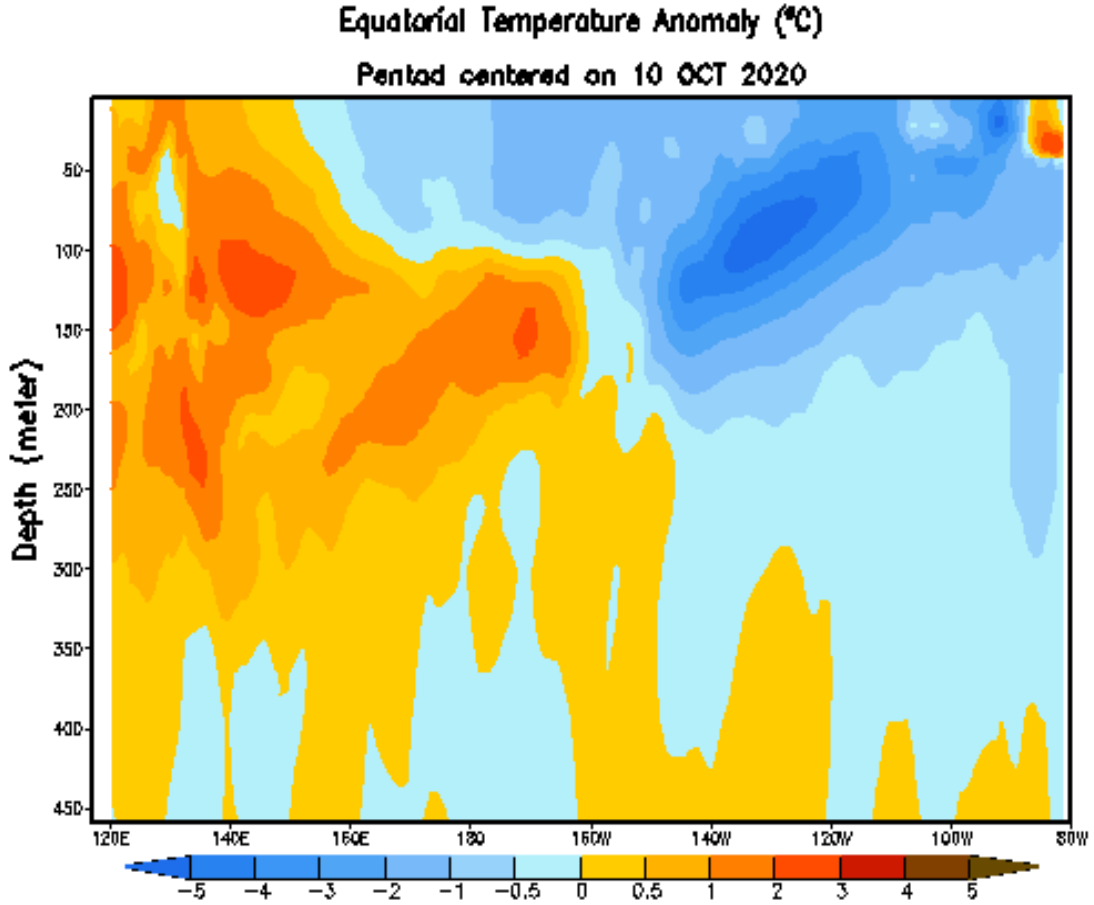
ENSO

Hovmöller: Heat Content



Source: CPC

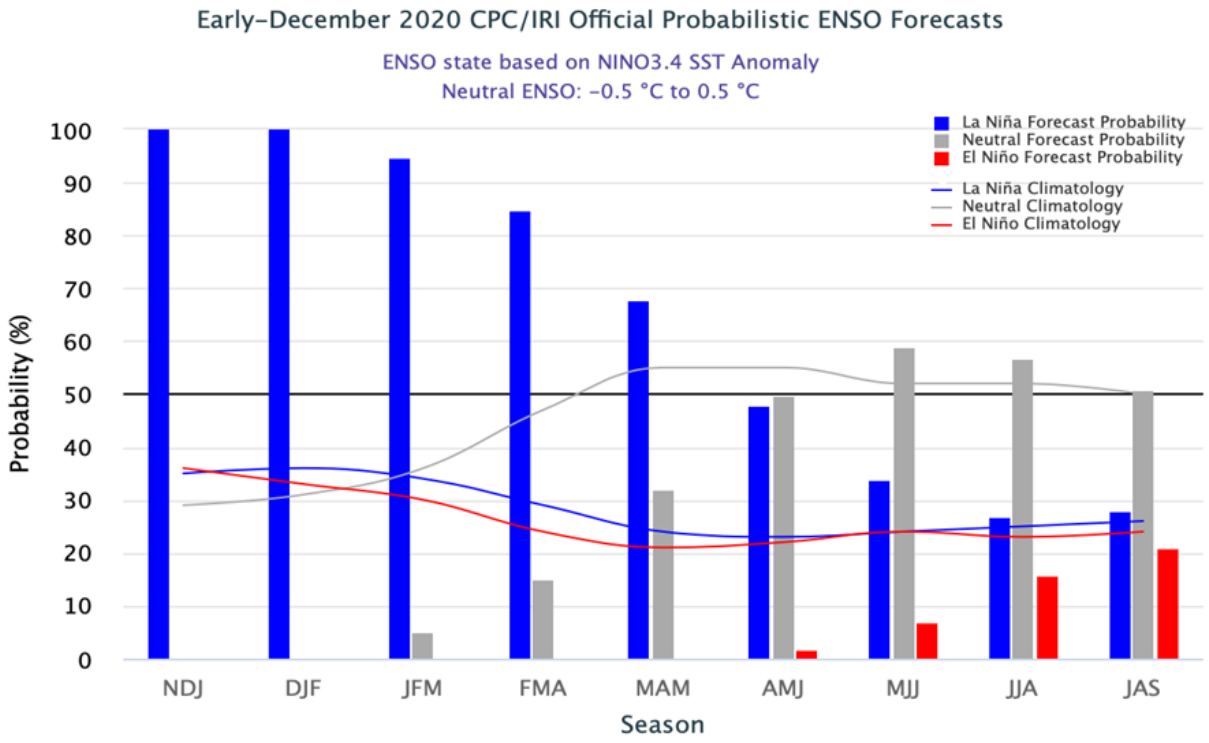
Animation: Pacific Temp. Anomaly



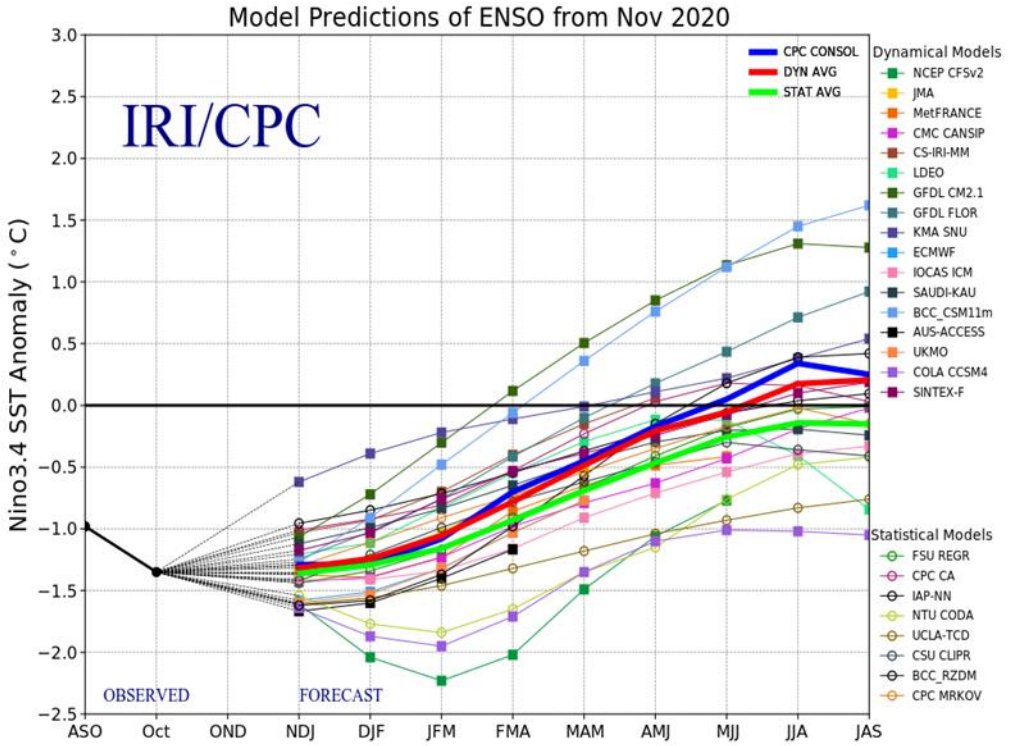
ENSO Outlook

La Niña is likely to continue through the Northern Hemisphere winter 2020-21 (~95% chance during January-March), with a potential transition during the spring 2021 (~50% chance of Neutral during April-June).*

CPC/IRI Probabilistic Forecast

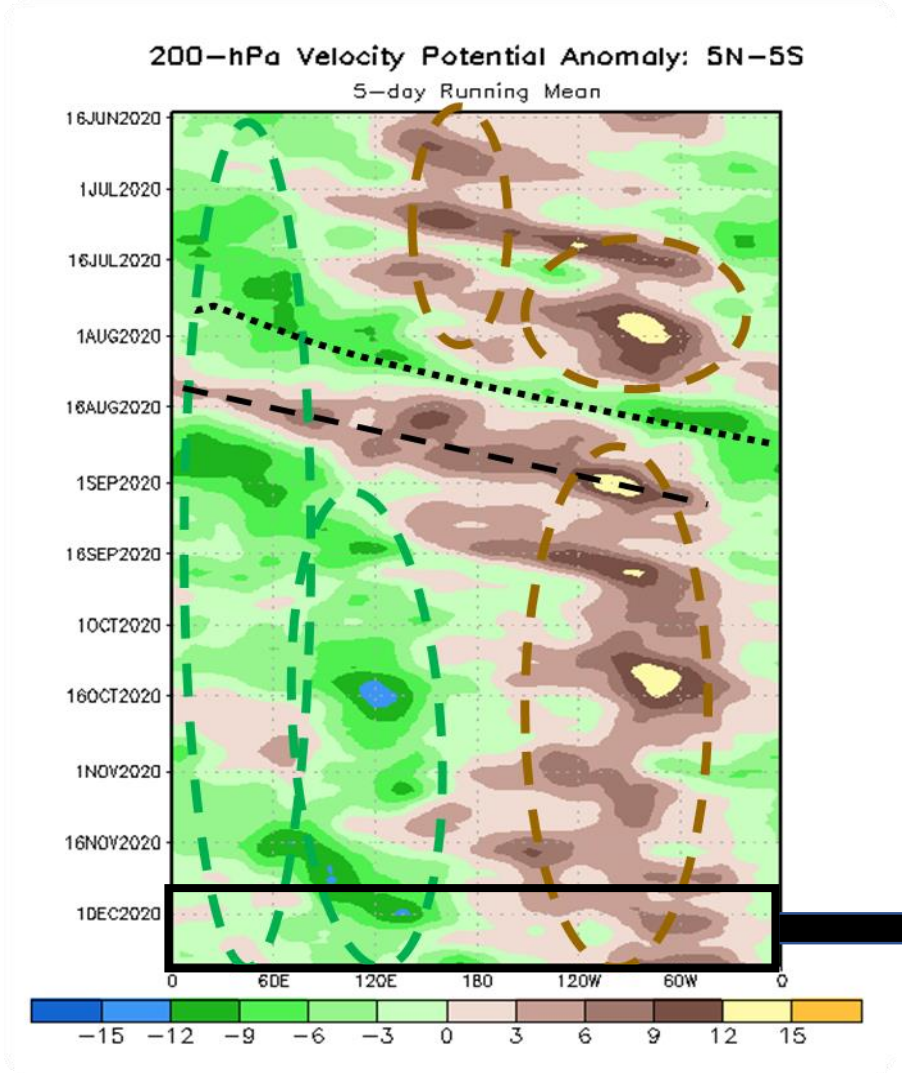


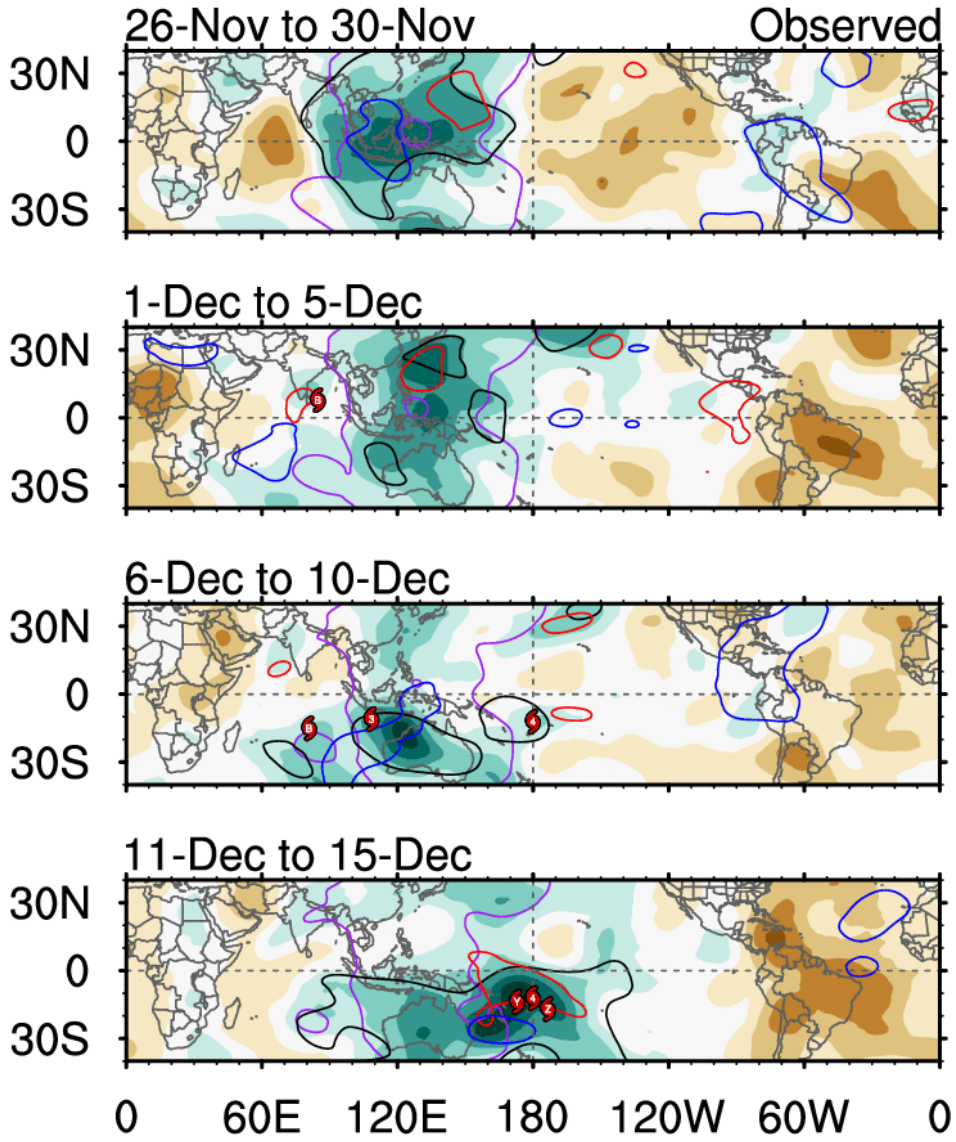
IRI/CPC Dynamic Models



Source: CPC

Madden-Julian Oscillation (MJO)





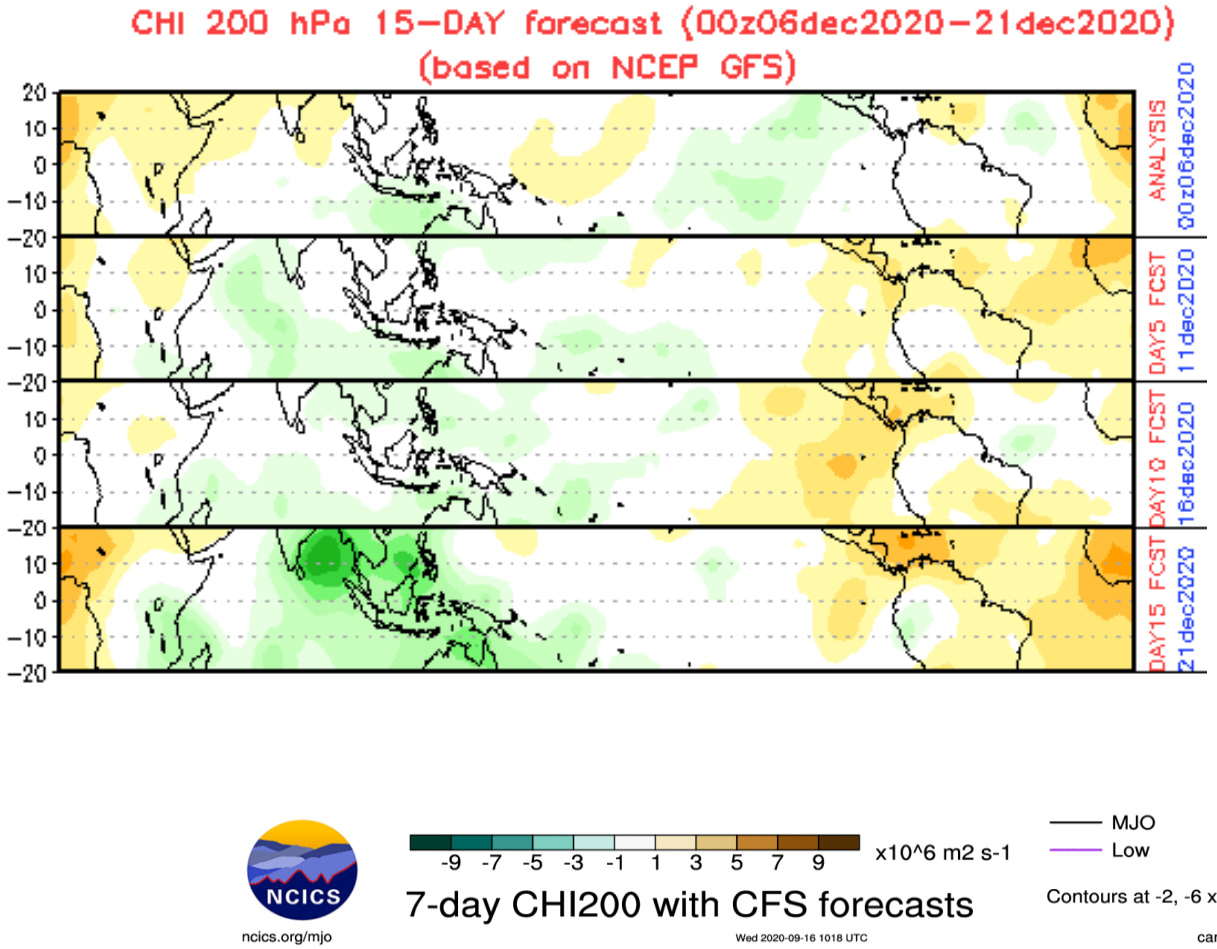
Favors rain storms

Favors limited rainfall

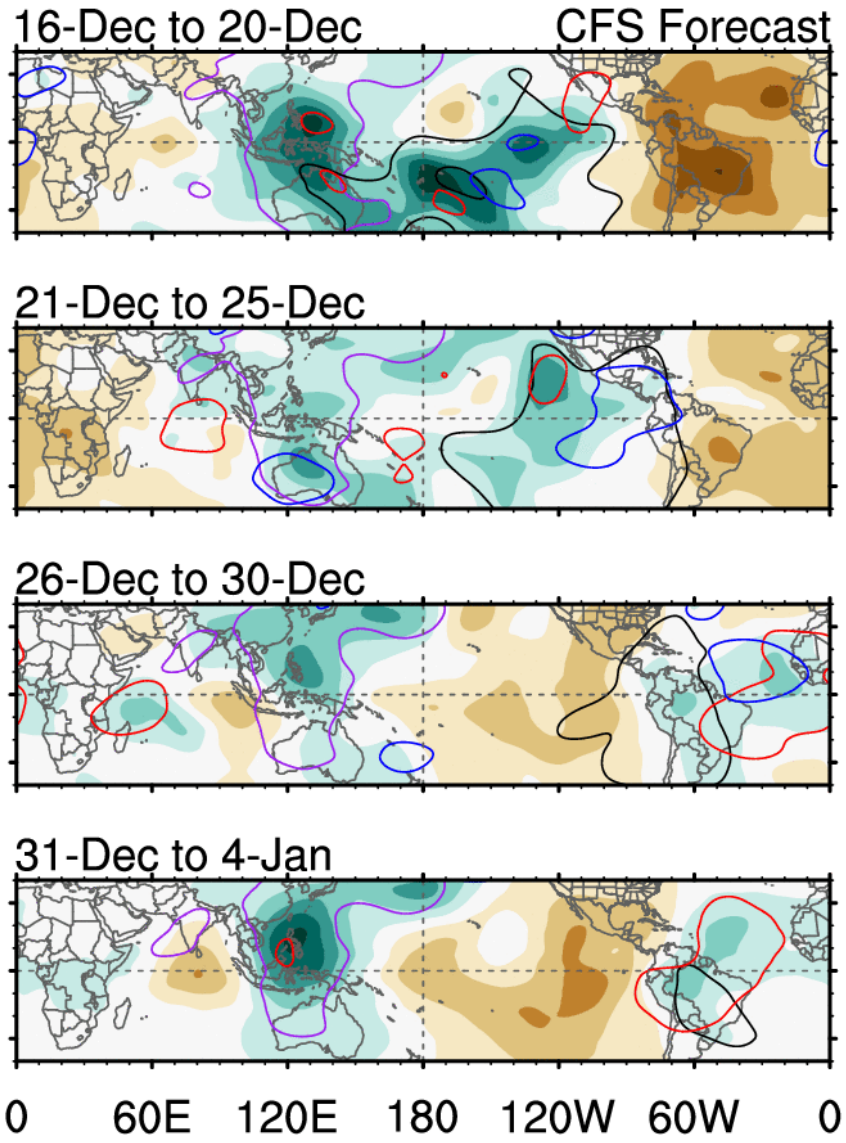
Source: CPC

MJO Forecasts

GFS

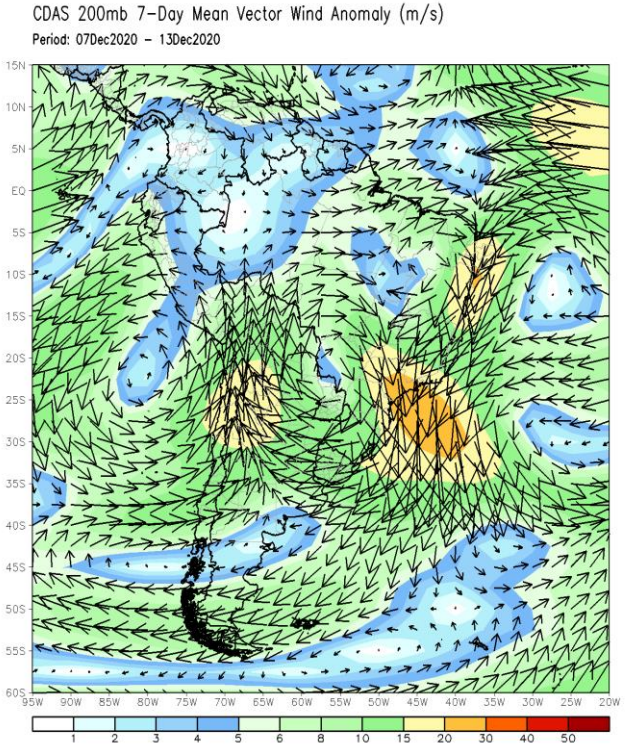


CFS

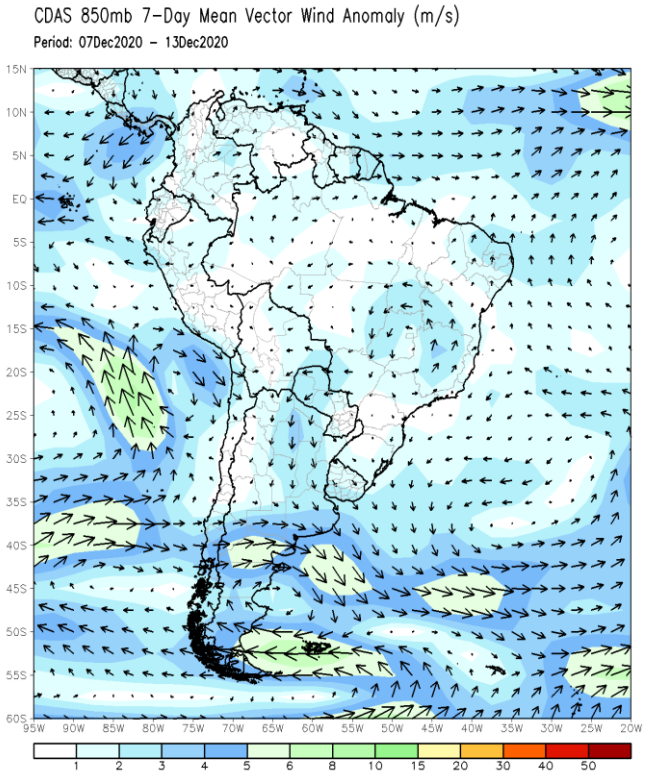


Last week's anomalies for South America

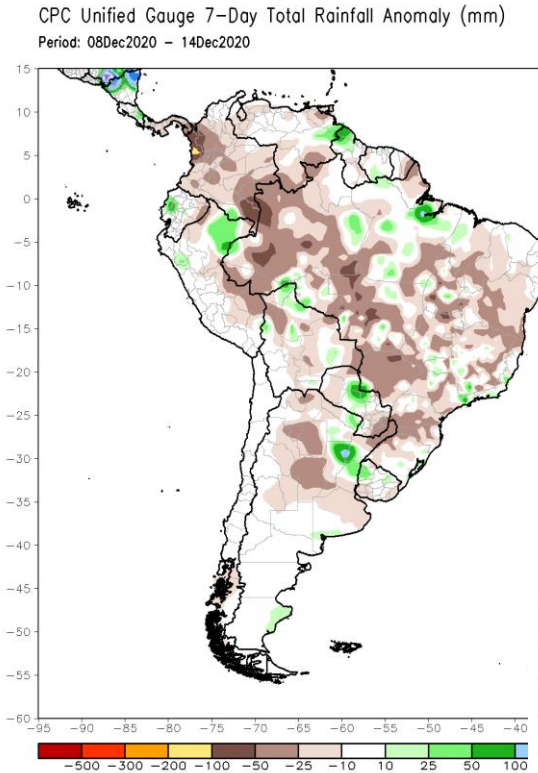
200 hPa Flow

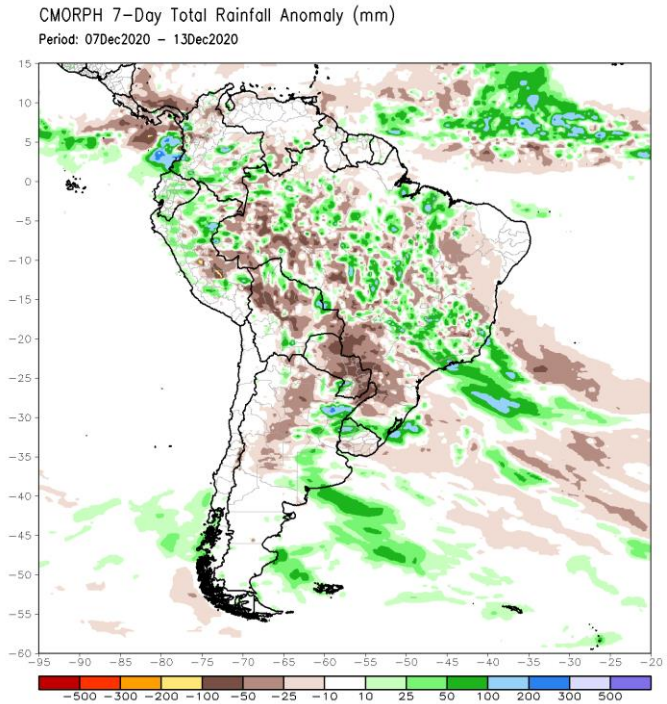


850 hPa Flow



Rainfall

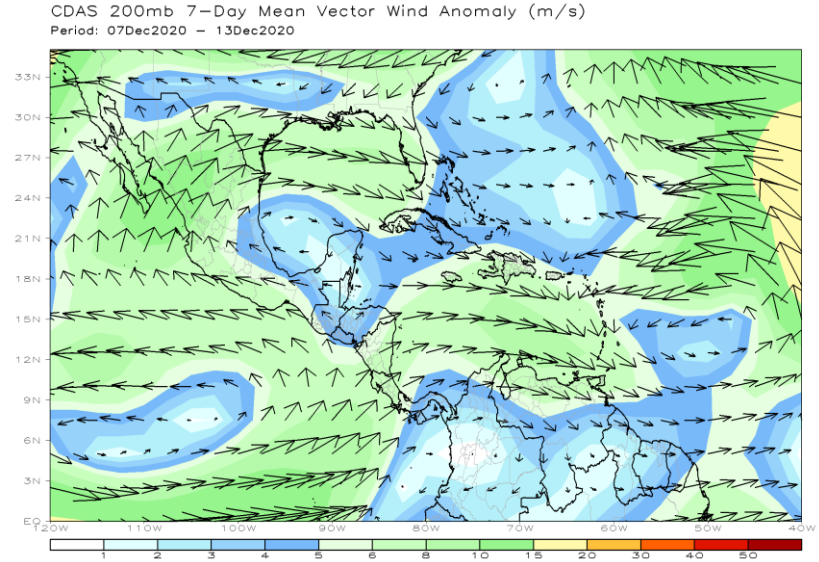




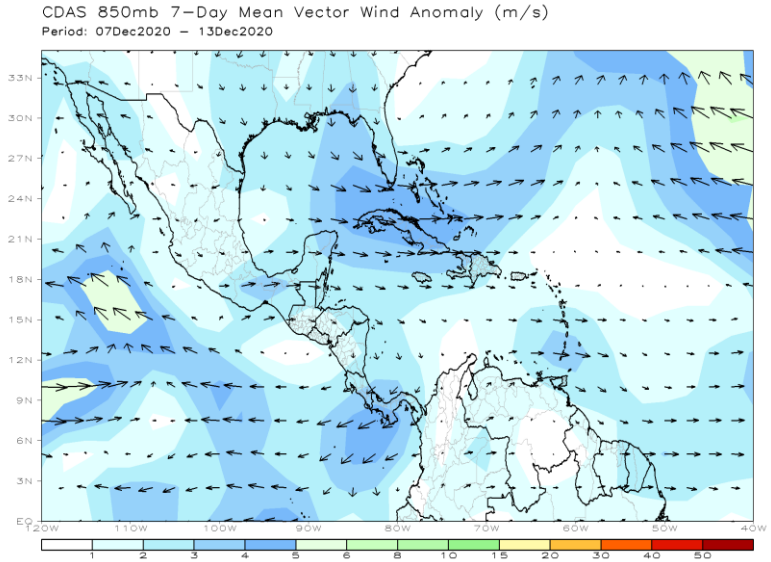
CMORPH: CPC Morphing Technique
https://www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.html

Last Week's anomalies for the Tropical Americas

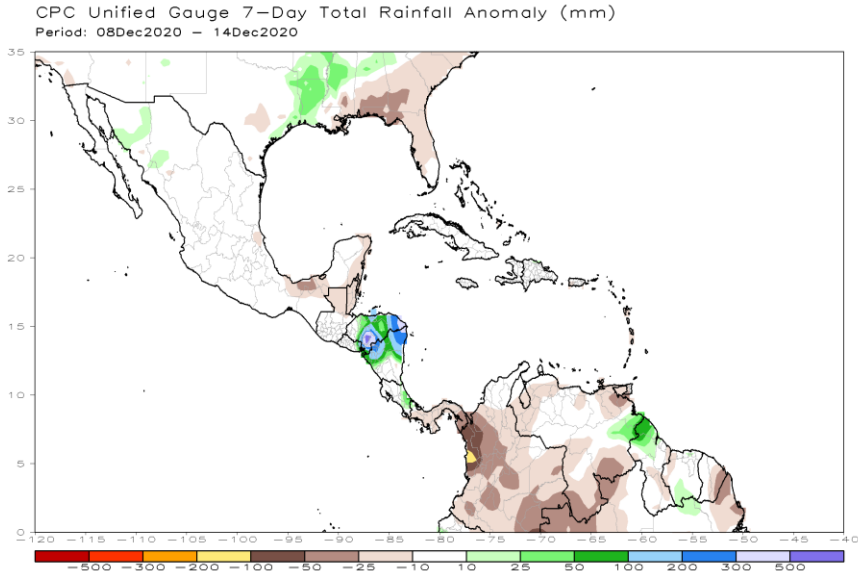
200 hPa Flow



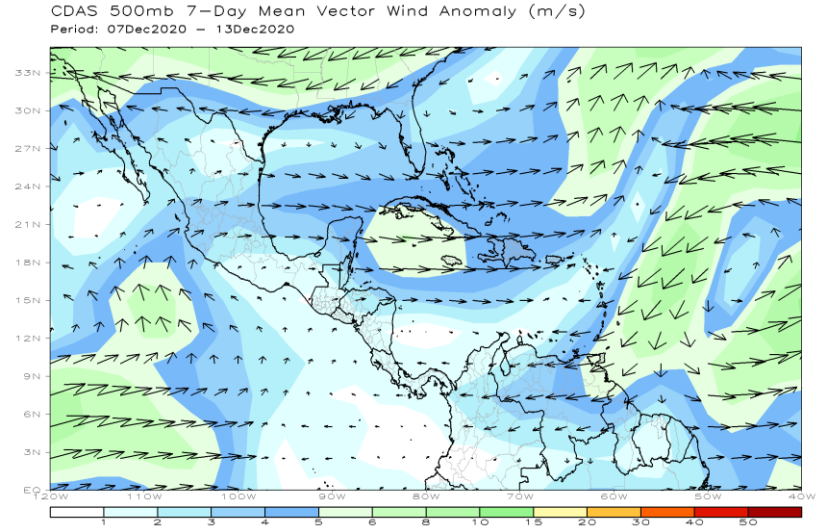
850 hPa Flow

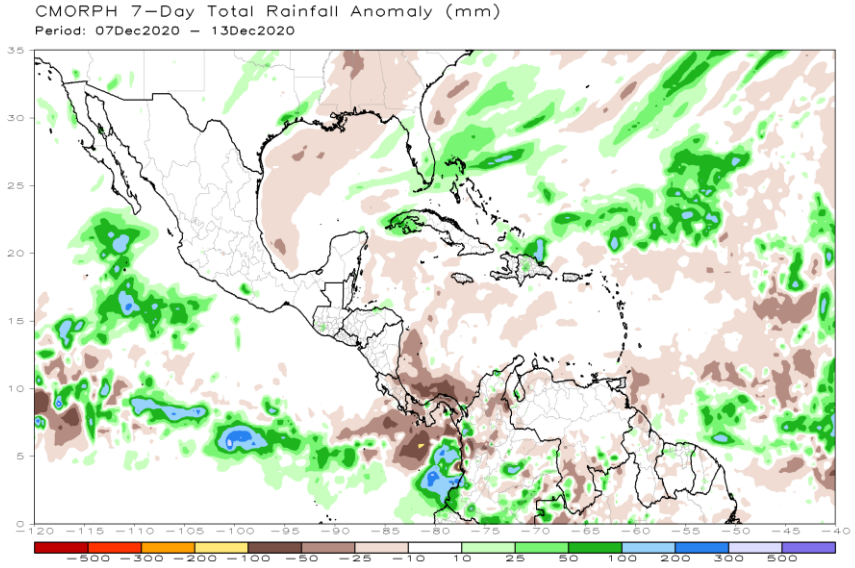


Rainfall



500 hPa Flow





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¡Gracias!

Thank you!