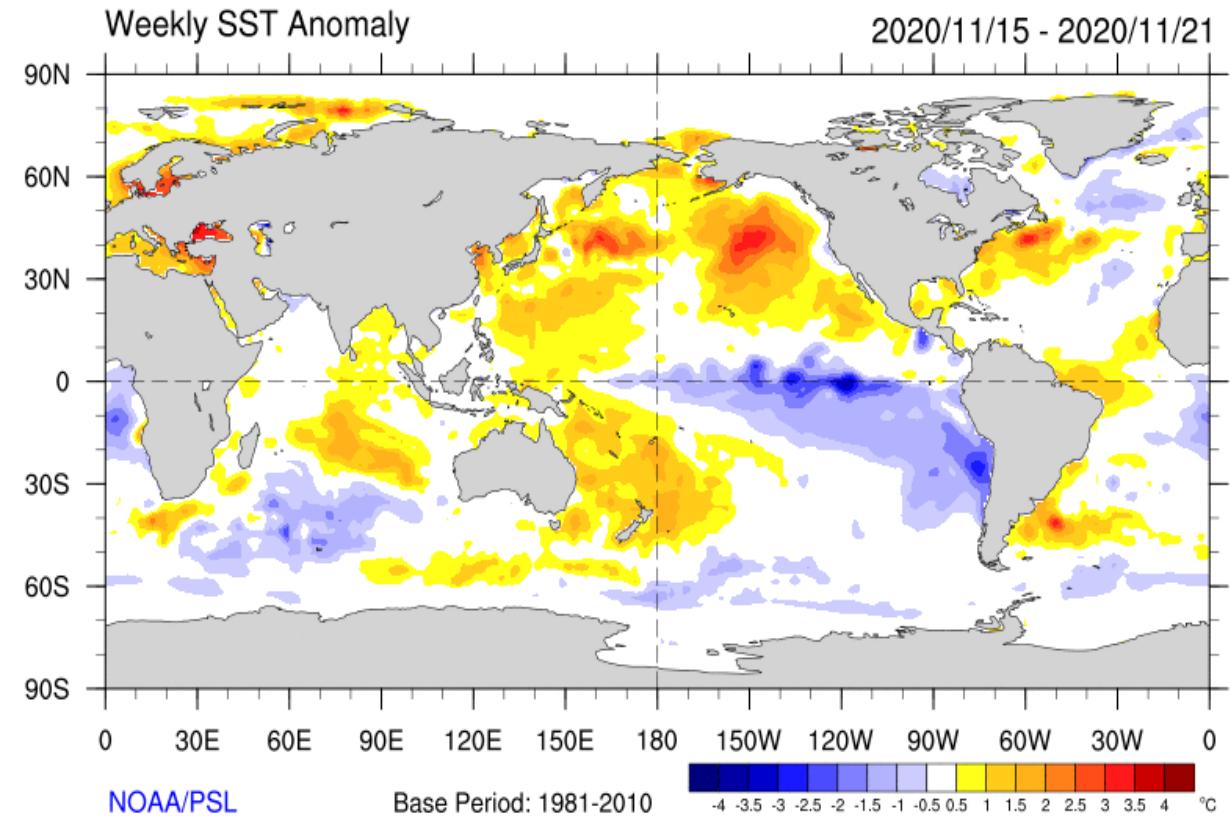
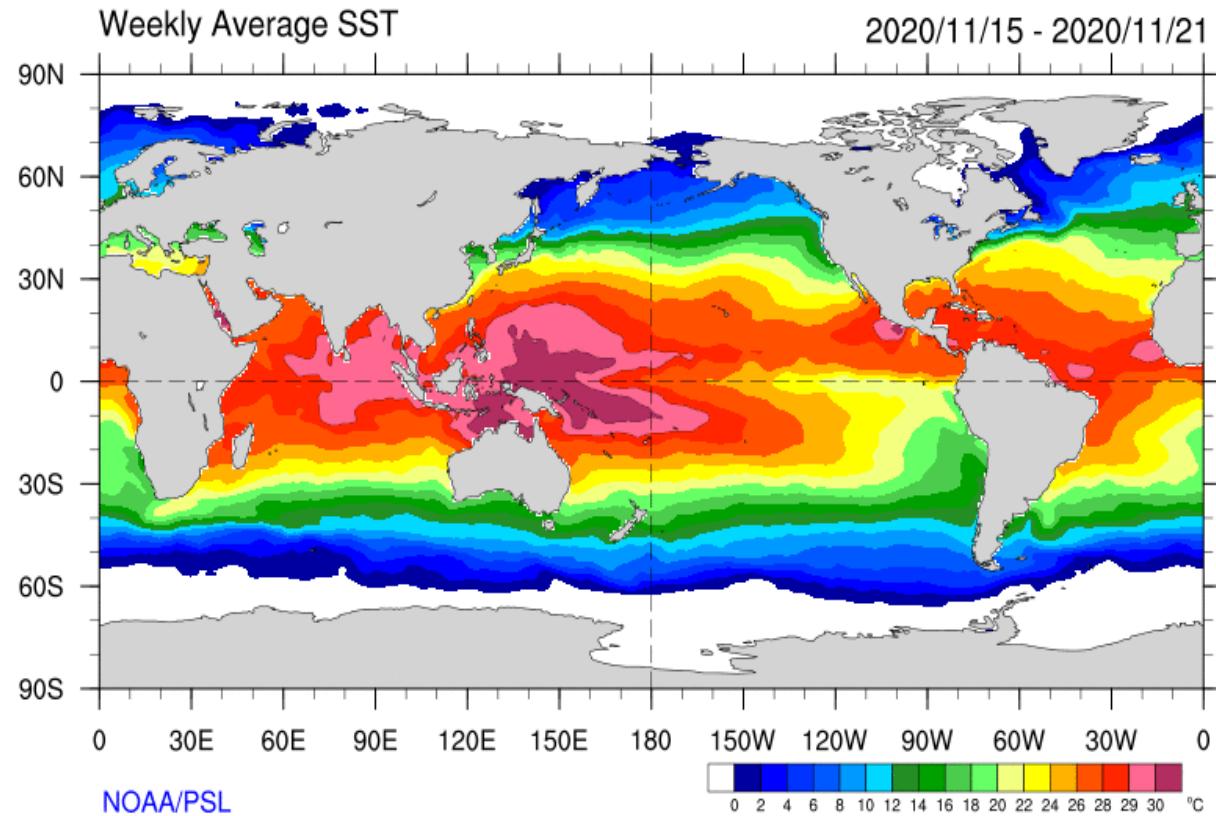




Monthly Regional Focus Group Session

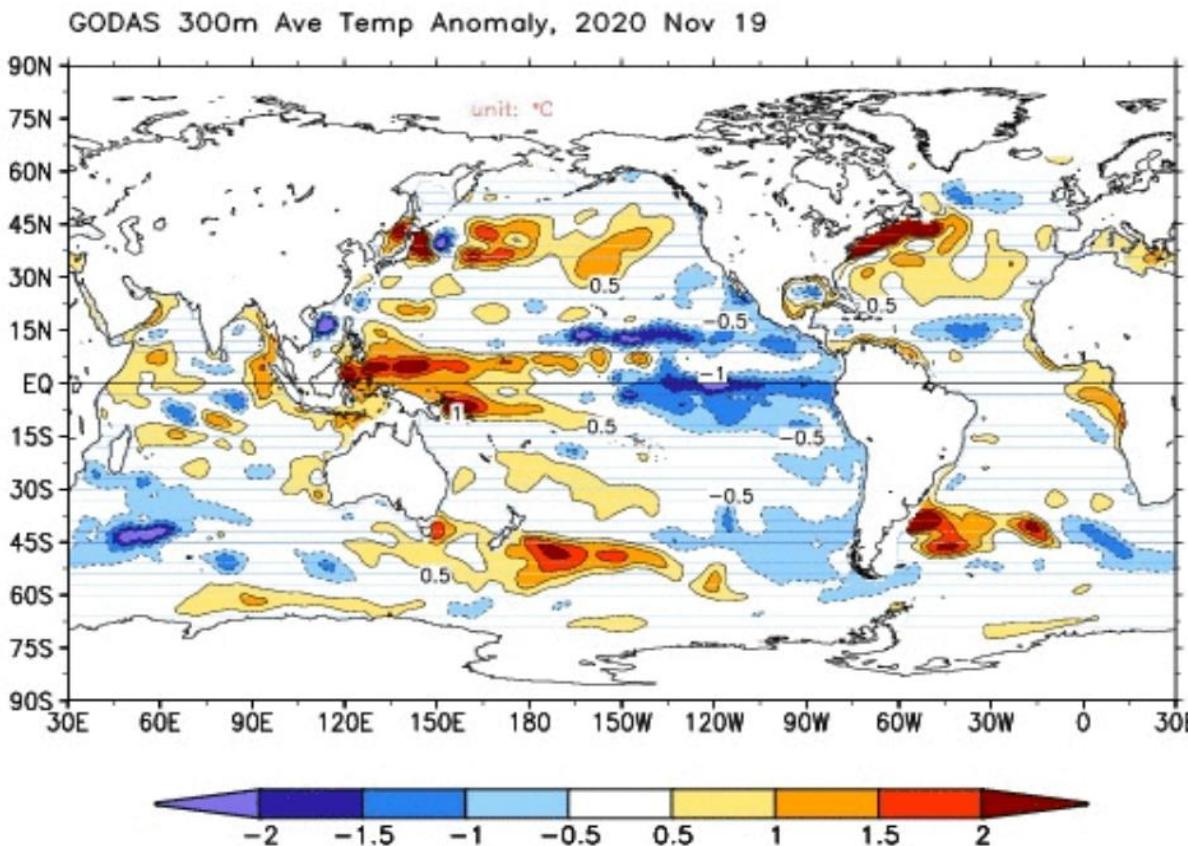
Wednesday 25 November 2020

Sea Surface Temperatures (Last Week)

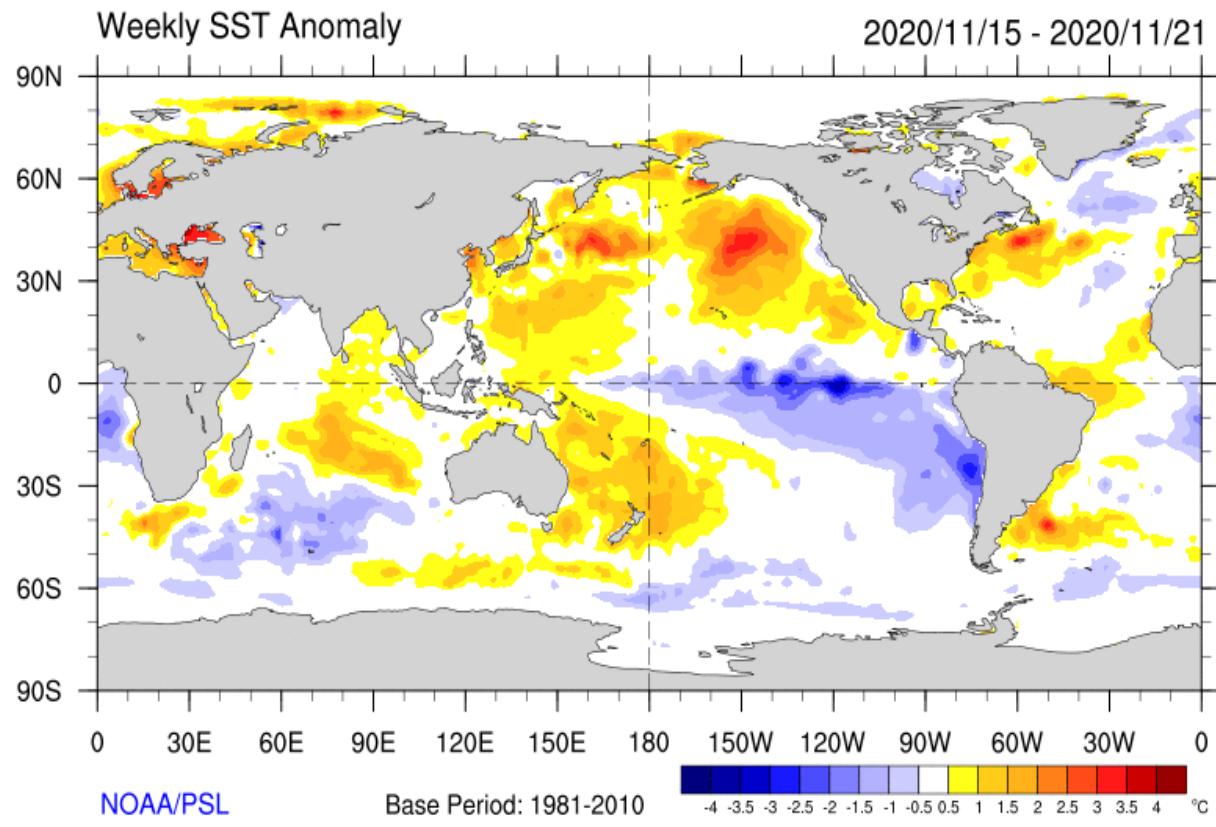


Deep Ocean Temperature Anomalies last longer:

Top 300-m Sea Temperature Anomaly



Sea Surface Temperature Anomaly



Source: GODAS, CPC

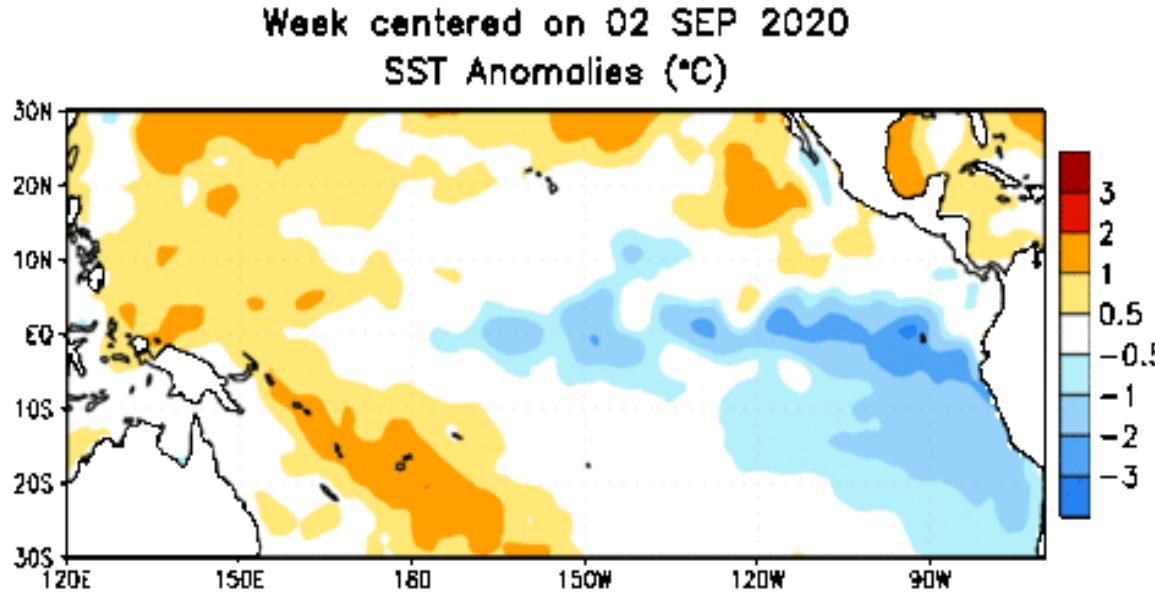
ENSO: La Niña

La Niña conditions are present.*

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

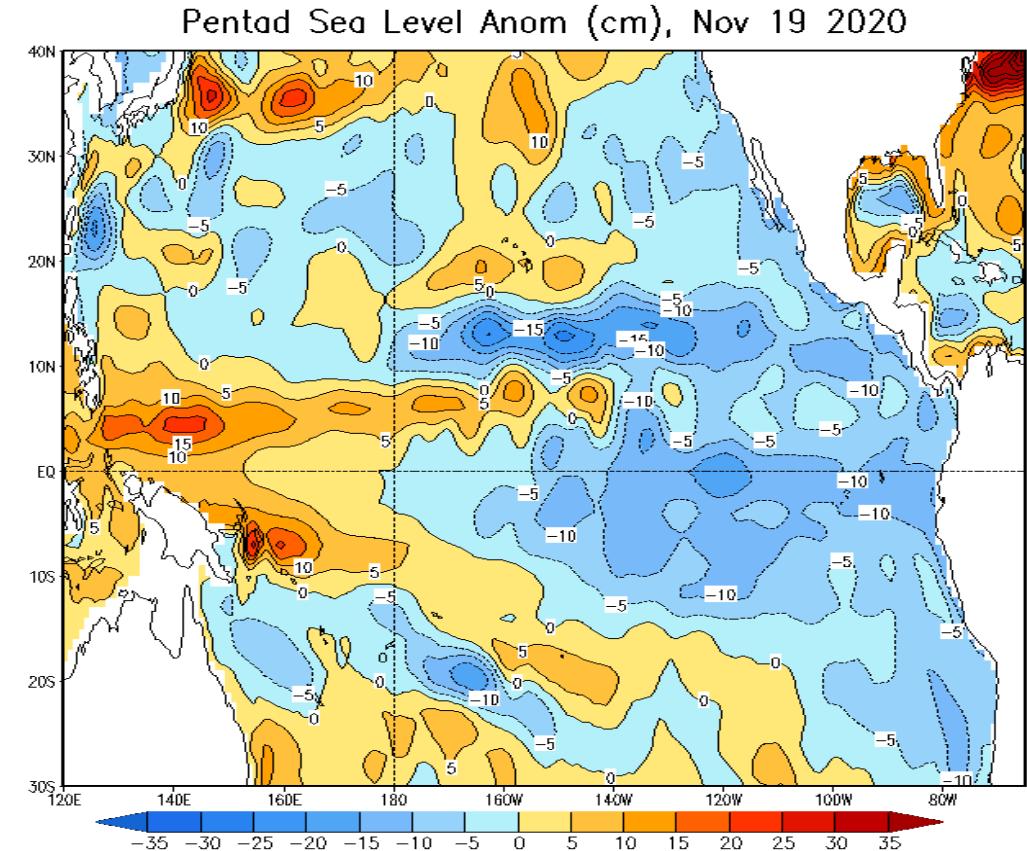
The tropical atmospheric circulation is consistent with La Niña.

Temperature Anomalies



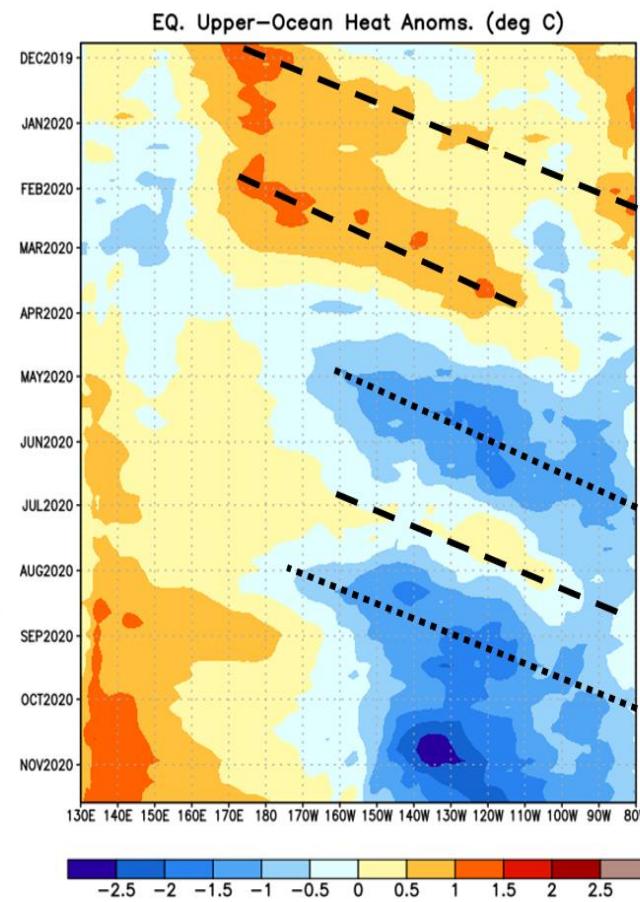
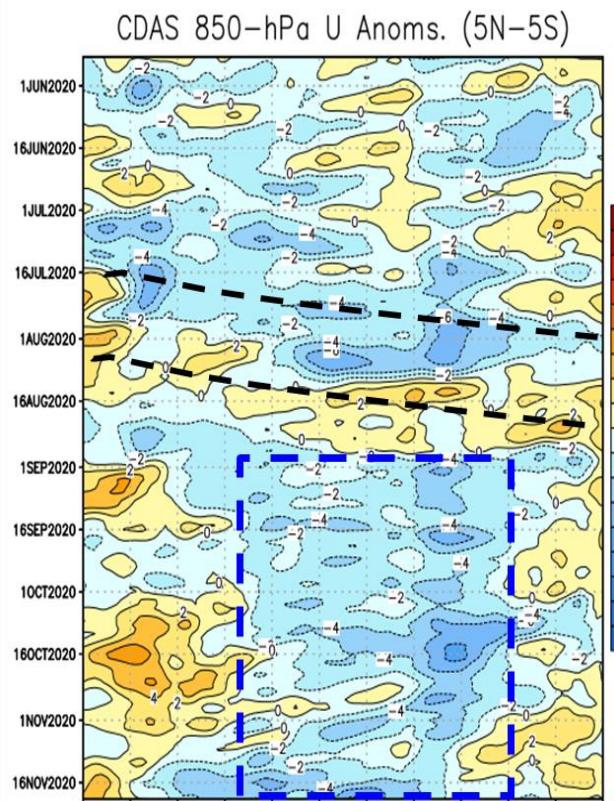
Source: CPC

Sea Level Anomalies

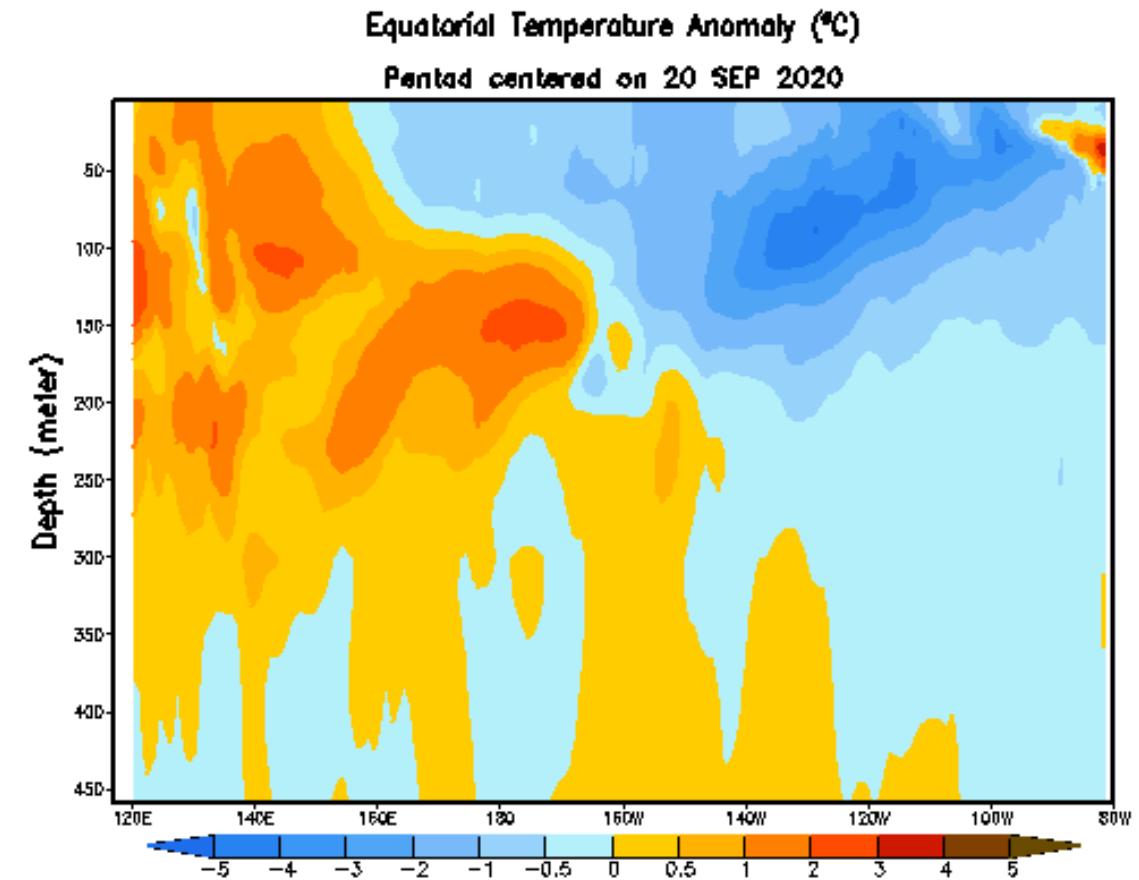


ENSO

Hovmöllers: 850 hPa Winds, Heat Content



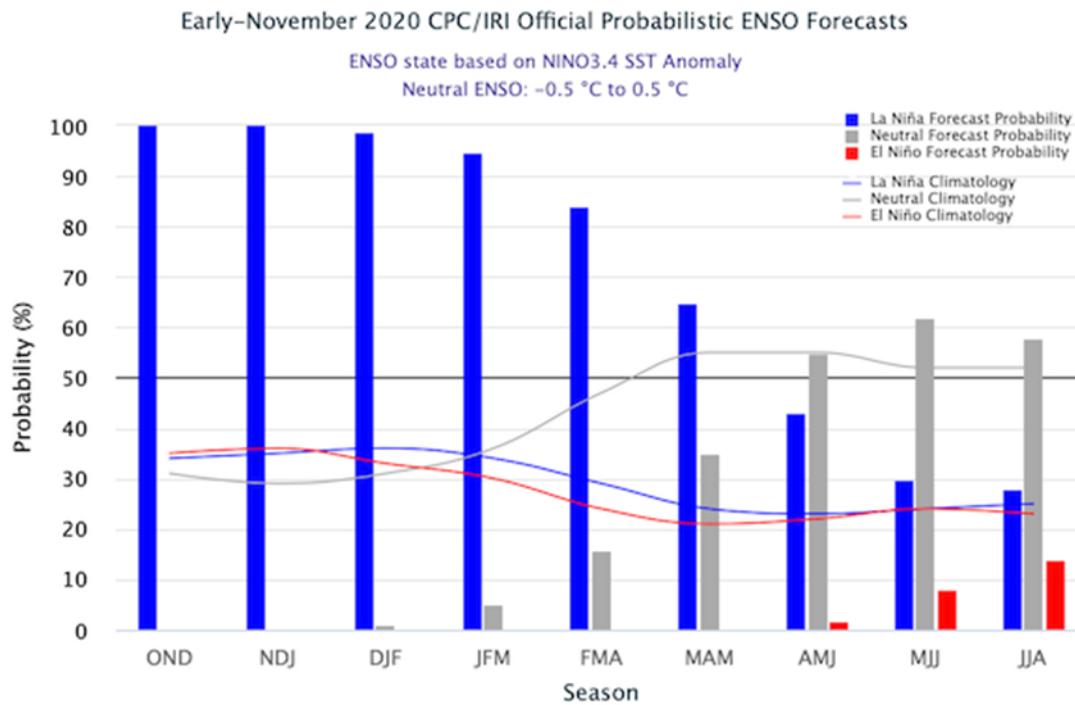
Animation: Pacific Temp. Anomaly



ENSO Outlook

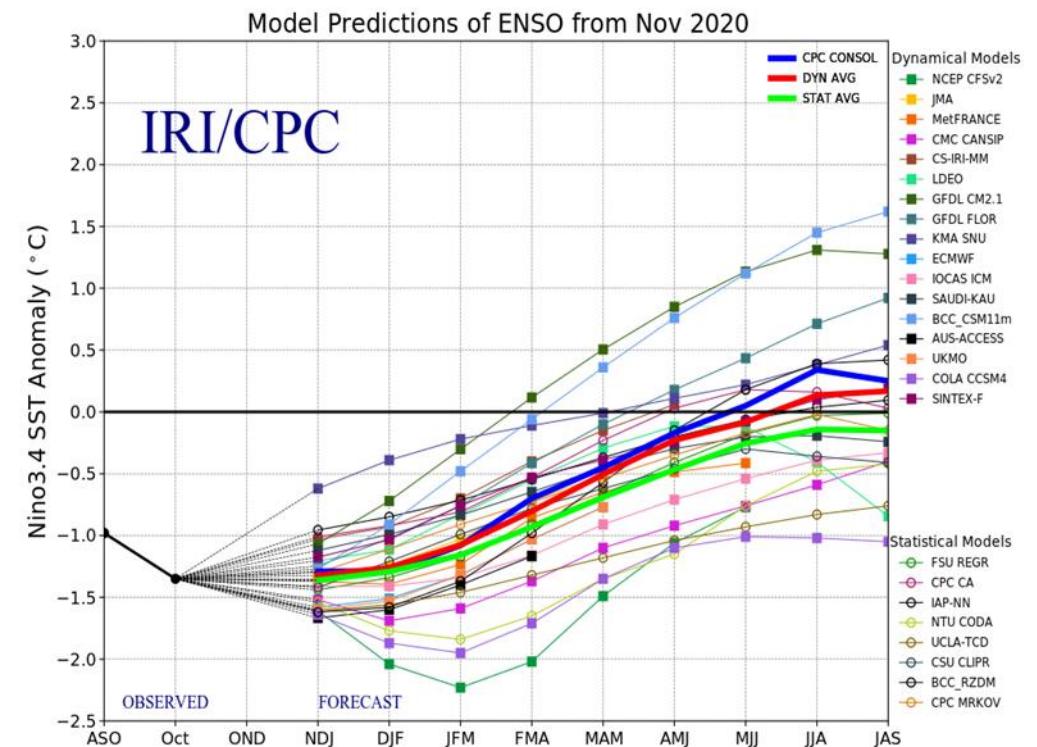
La Niña is likely to continue through the Northern Hemisphere winter 2020-21 (~95% chance during January-March) and into spring 2021 (~65% chance during March-May).*

CPC/IRI Probabilistic Forecast



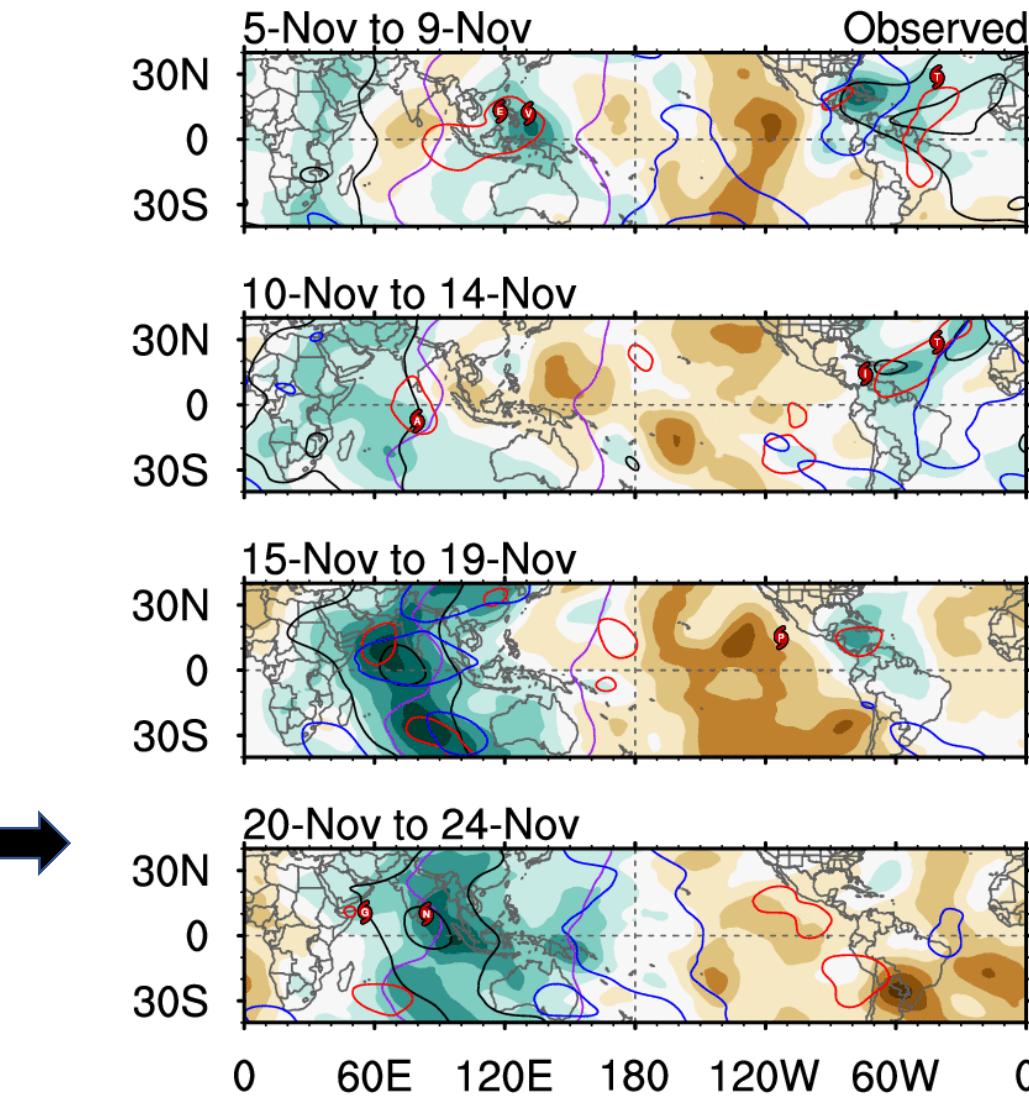
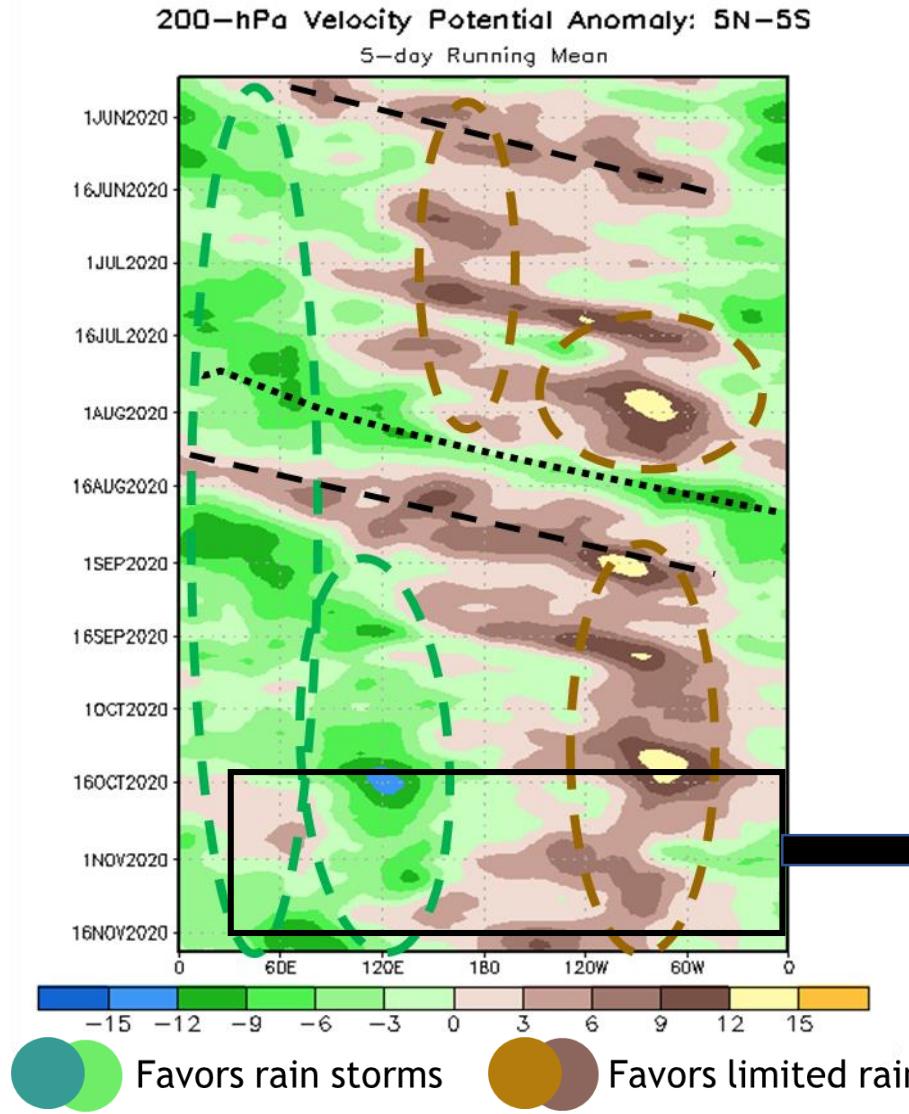
Source: CPC

IRI/CPC Dynamic Models



Source: IRI/CPC, 19 October

Madden-Julian Oscillation (MJO)

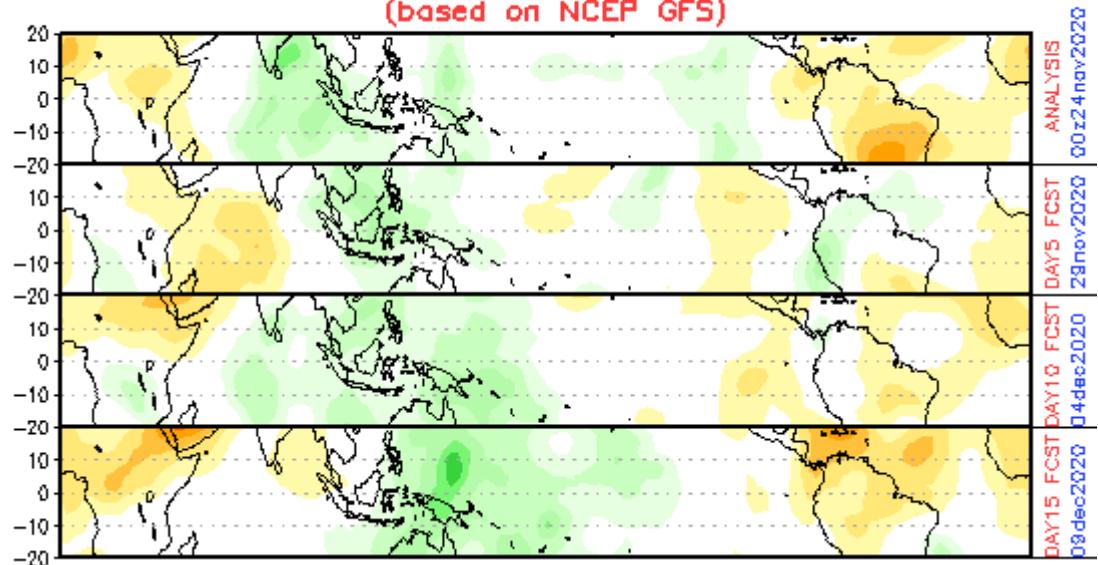


MJO Forecasts

CFS

GFS

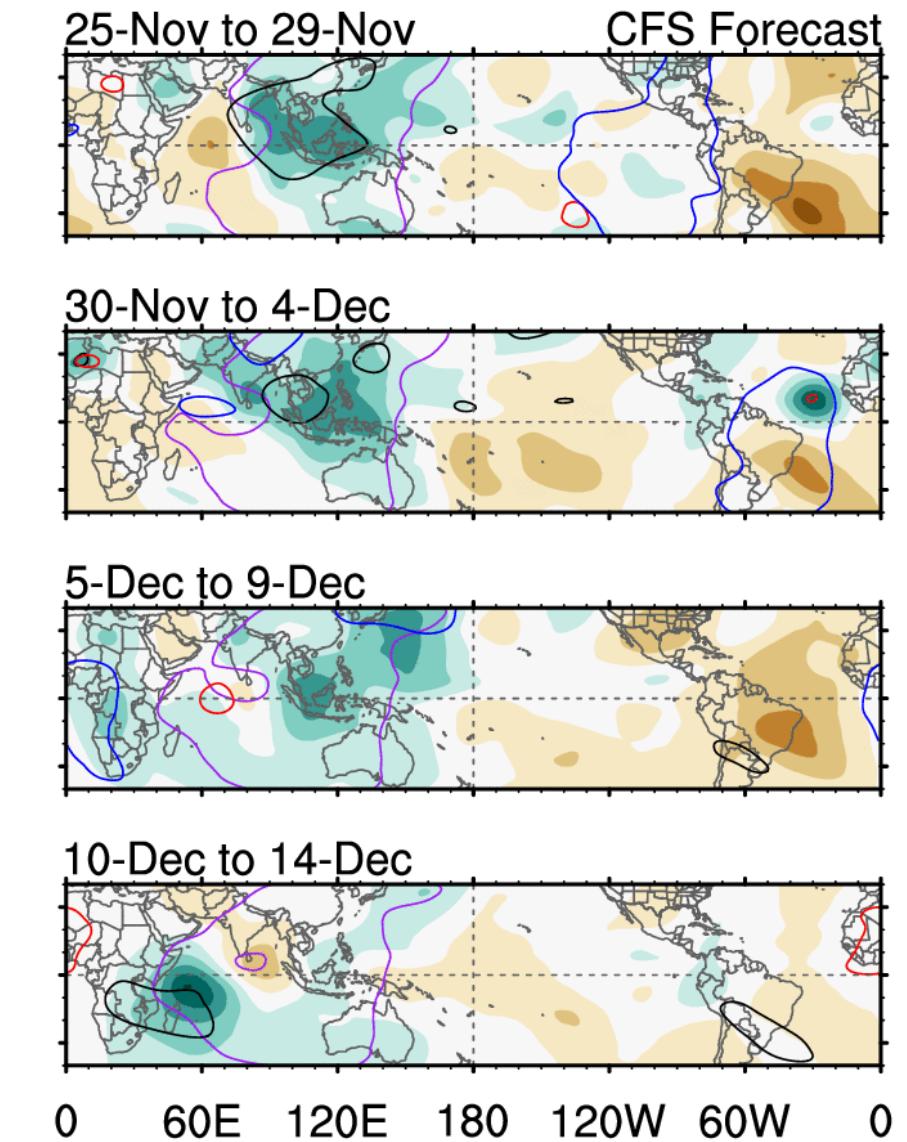
CHI 200 hPa 15-DAY forecast (00z24nov2020–09dec2020)
(based on NCEP GFS)



ncics.org/mjo

7-day CHI200 with CFS forecasts
Wed 2020-09-16 1018 UTC

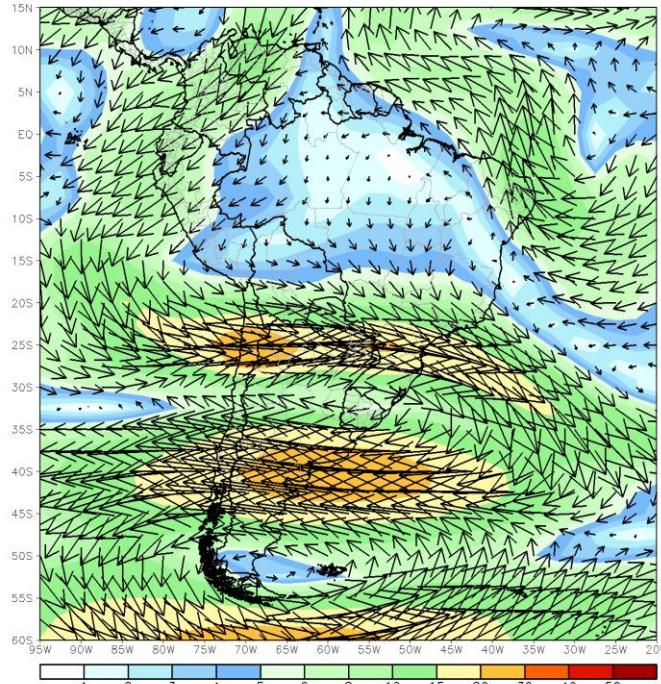
MJO
Low
Contours at $-2, -6 \times 10^6 \text{ m}^2 \text{ s}^{-1}$
Carl Schreck
carl_schreck@ncsu.edu



Last week's anomalies for South America

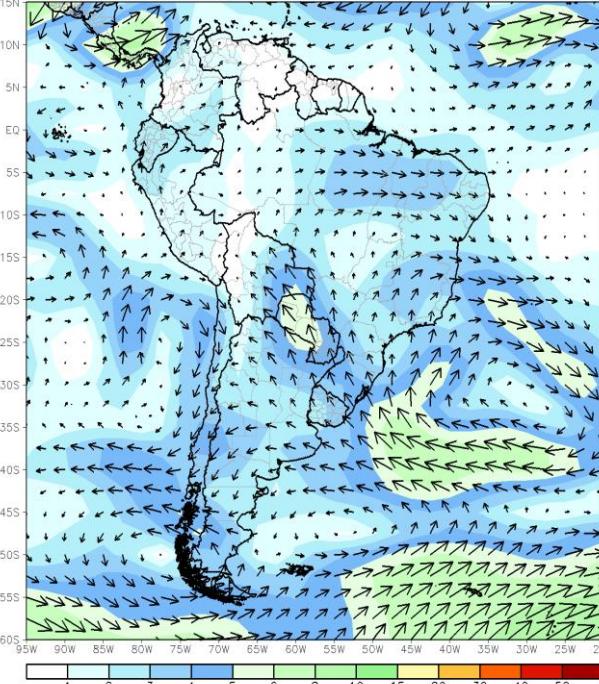
200 hPa Flow

CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 16Nov2020 – 22Nov2020



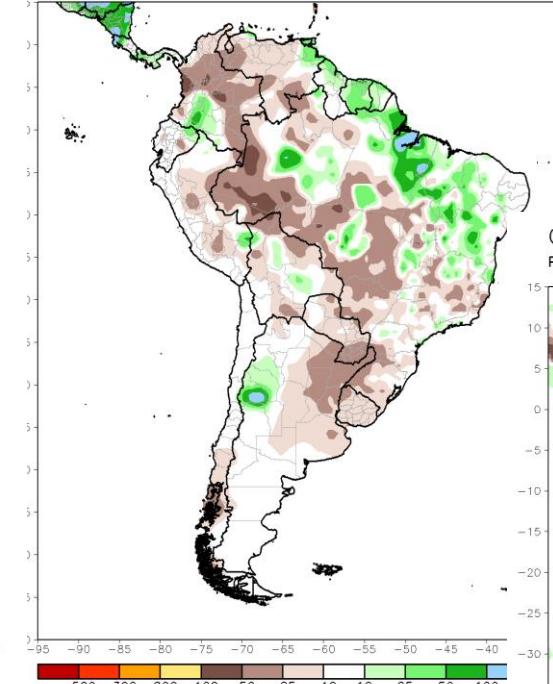
850 hPa Flow

CDAS 850mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 16Nov2020 – 22Nov2020

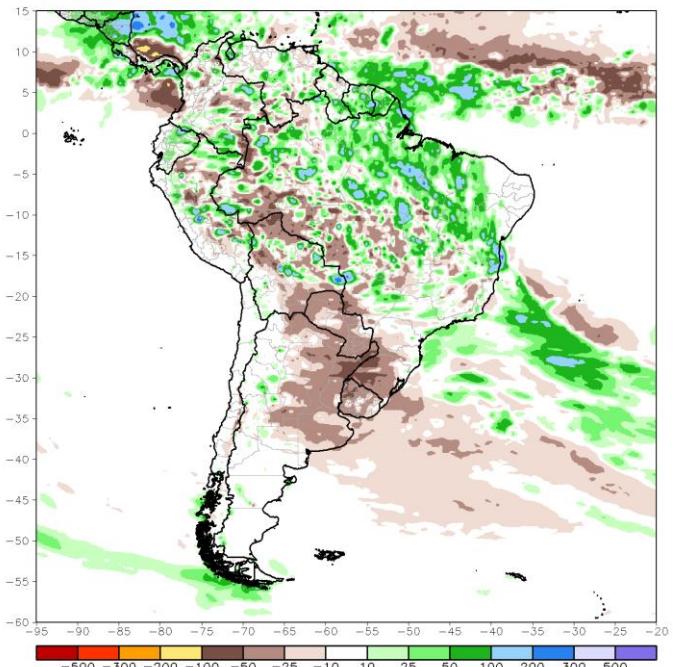


Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 17Nov2020 – 23Nov2020



CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 16Nov2020 – 22Nov2020

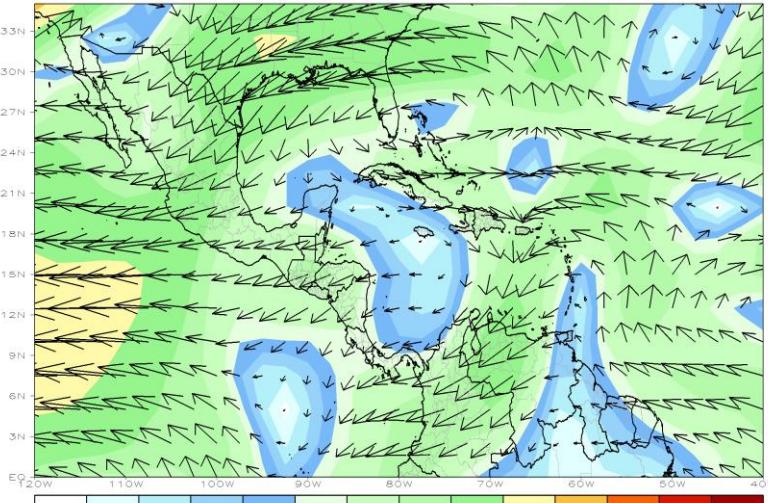


CMORPH: CPC Morphing Technique
https://www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.html

Last Week's anomalies for the Tropical Americas

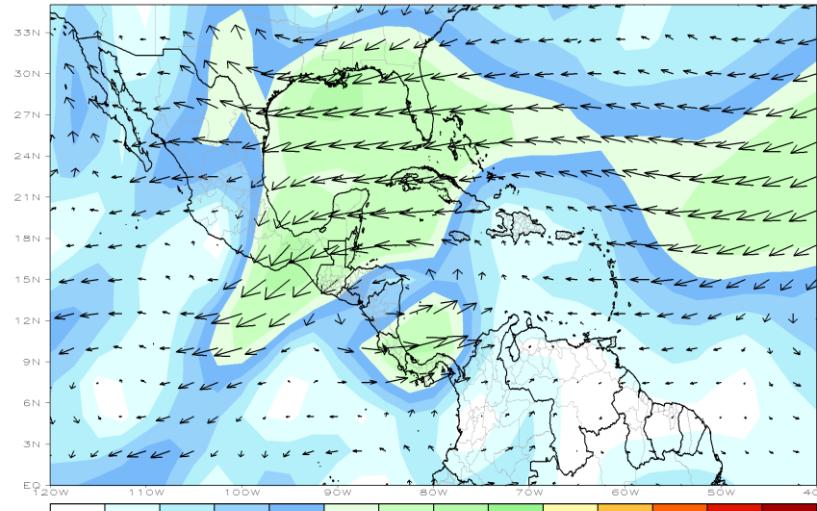
200 hPa Flow

CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 16Nov2020 – 22Nov2020



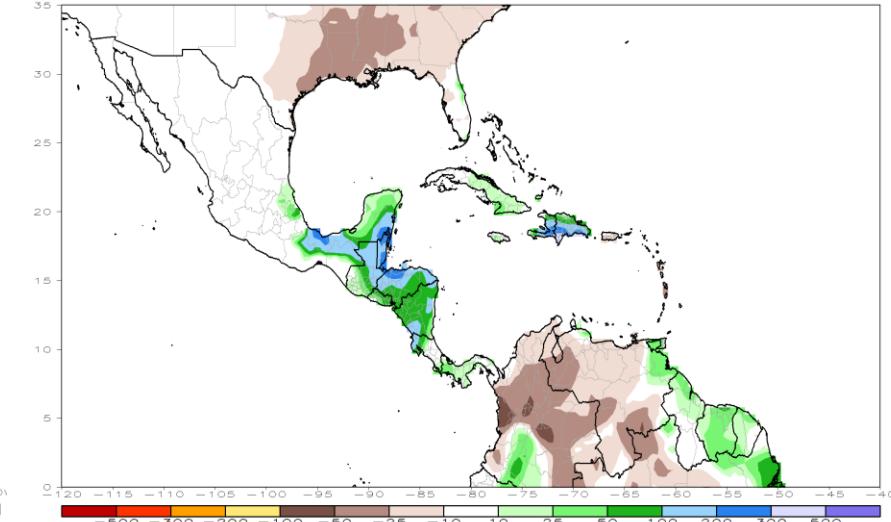
850 hPa Flow

CDAS 850mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 16Nov2020 – 22Nov2020

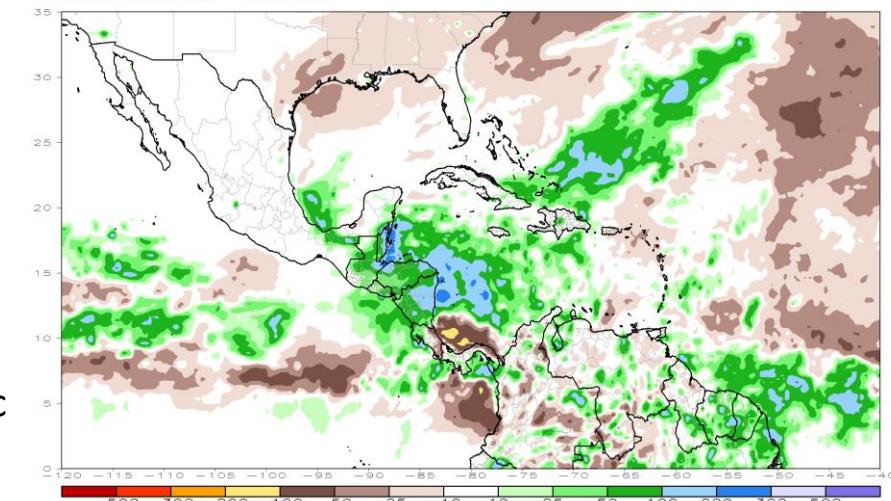


Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 17Nov2020 – 23Nov2020



CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 16Nov2020 – 22Nov2020



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¡Gracias!

Thank you!