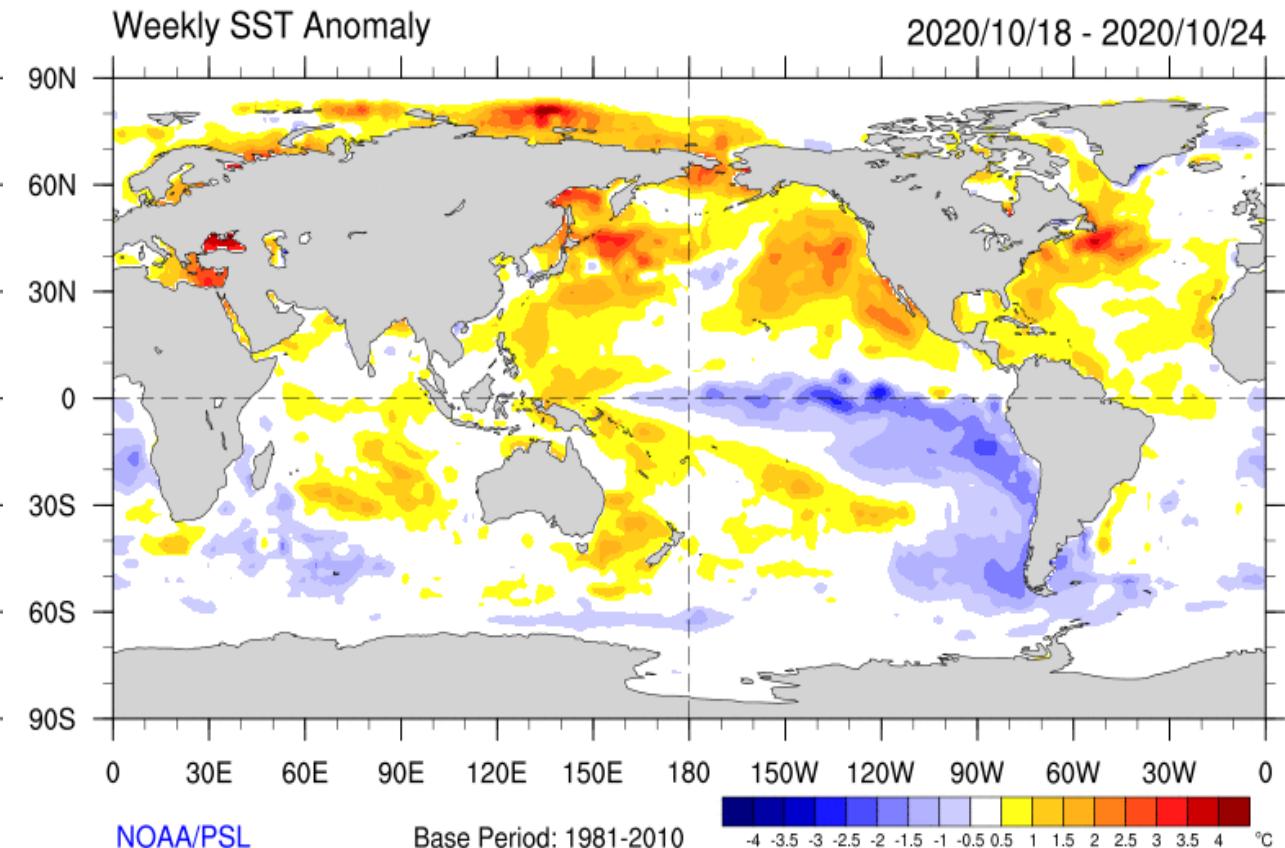
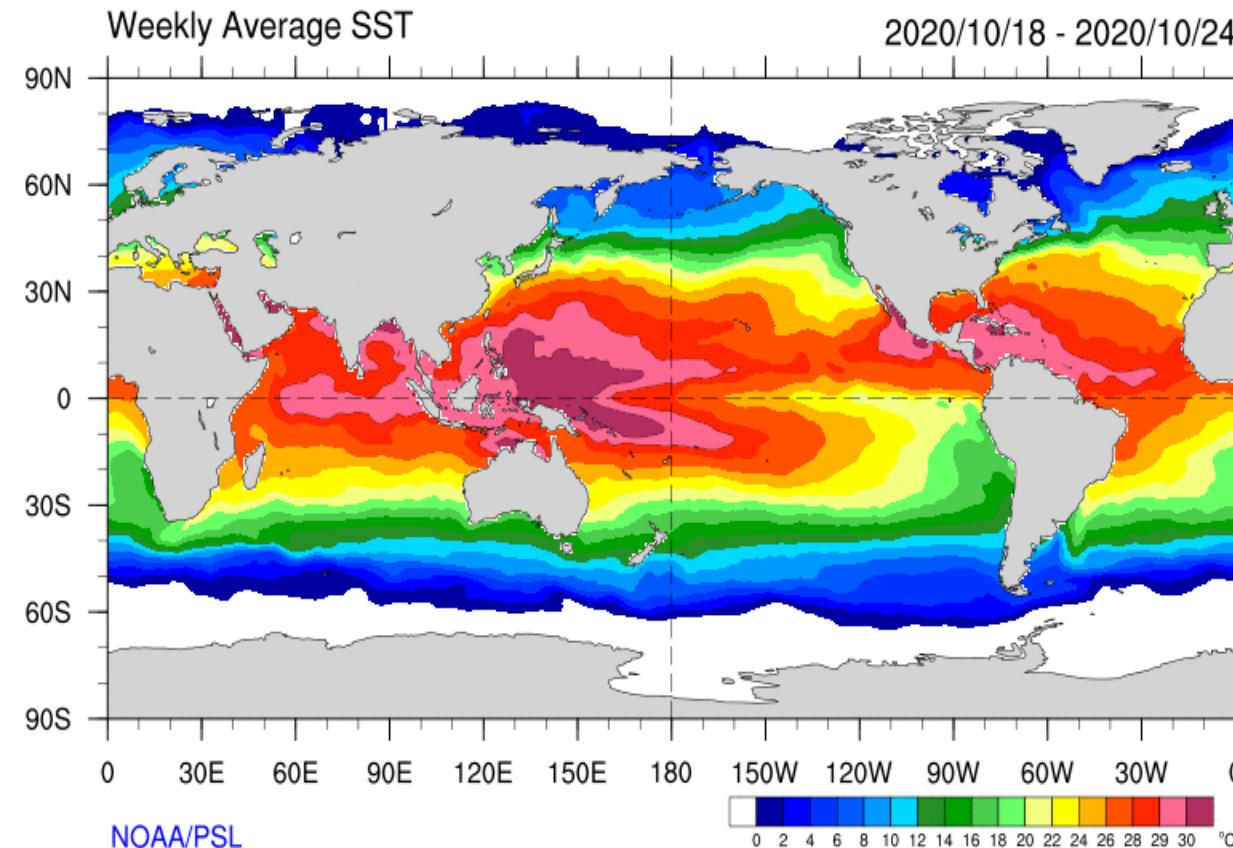




Monthly Regional Focus Group Session

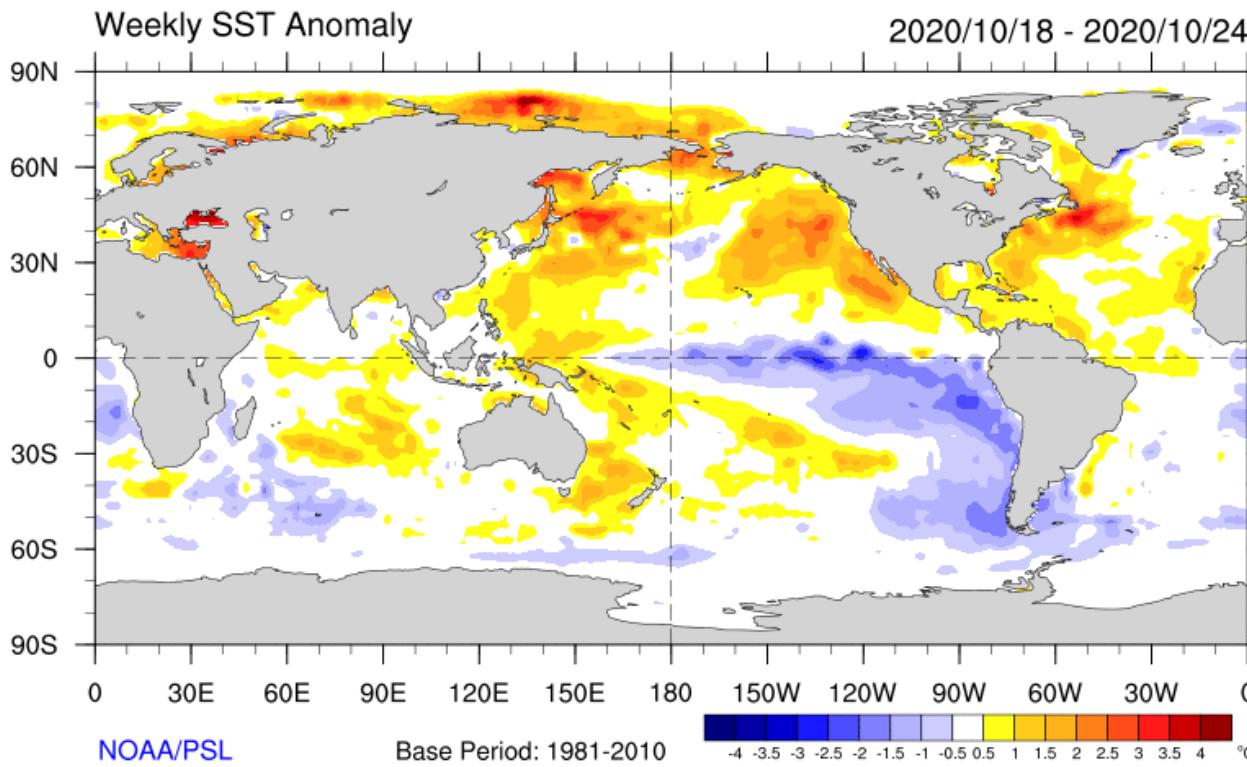
Wednesday 27 October 2020

Sea Surface Temperature Anomalies (Last Week)

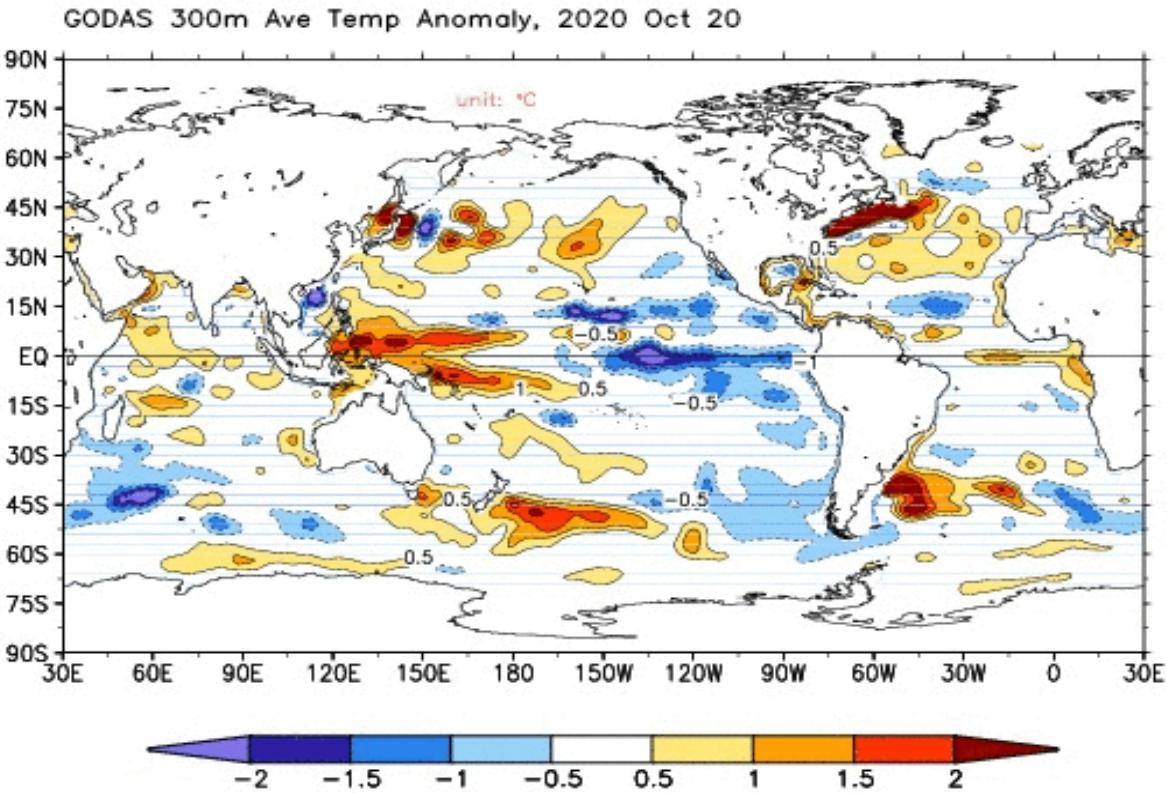


Deep Ocean Temperature Anomalies last longer:

Sea Surface Temperature Anomaly



Top 300-m Sea Temperature Anomaly



Source: GODAS, CPC

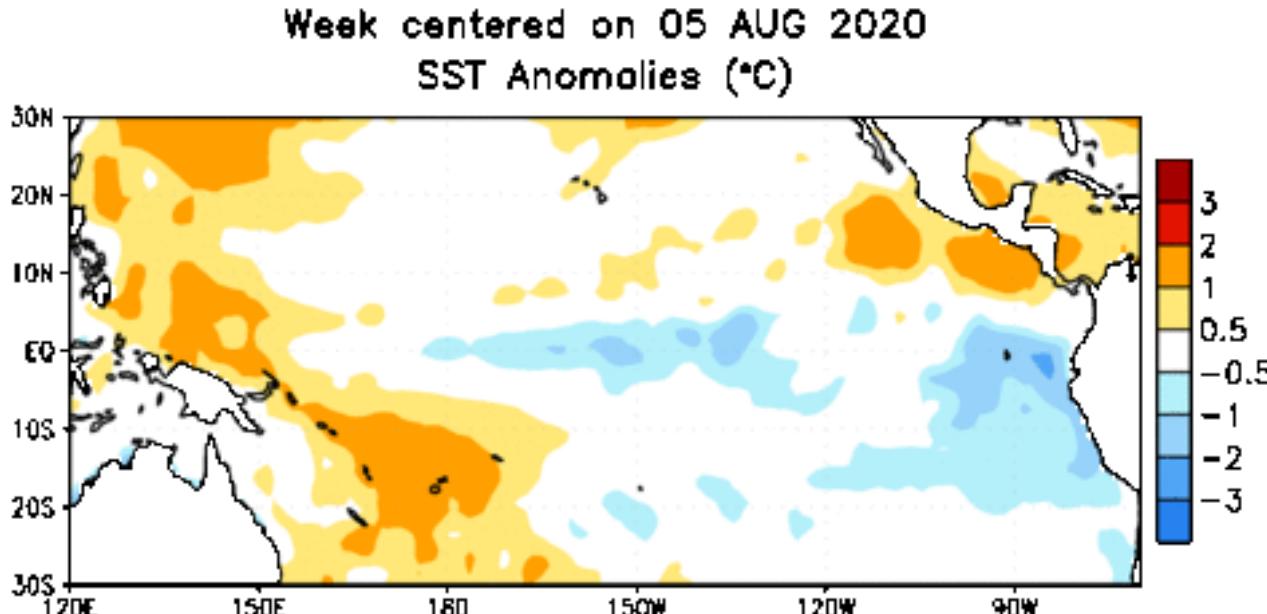
ENSO: La Niña

La Niña conditions are present.*

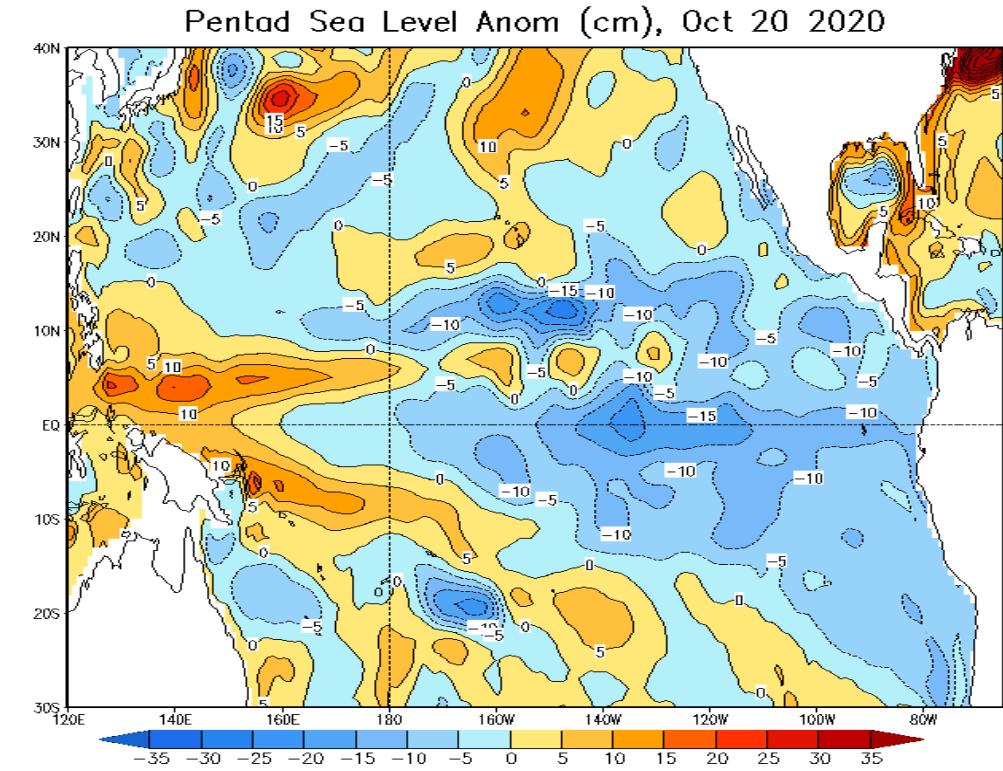
Equatorial sea surface temperatures (SSTs) are below average from the west-central to eastern Pacific Ocean.

The tropical atmospheric circulation is consistent with La Niña.

Temperature Anomalies



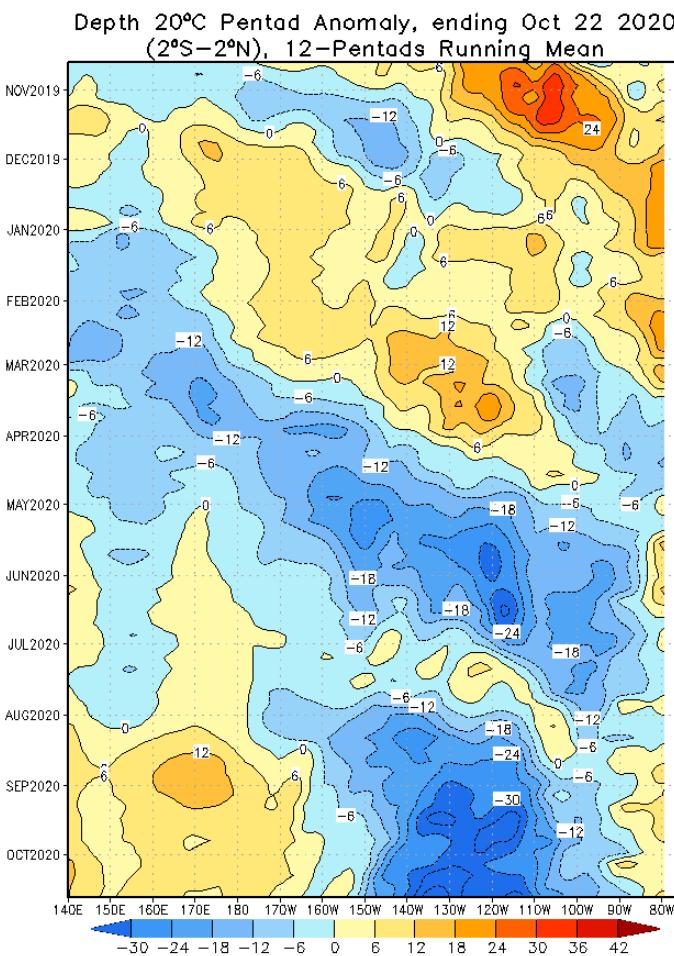
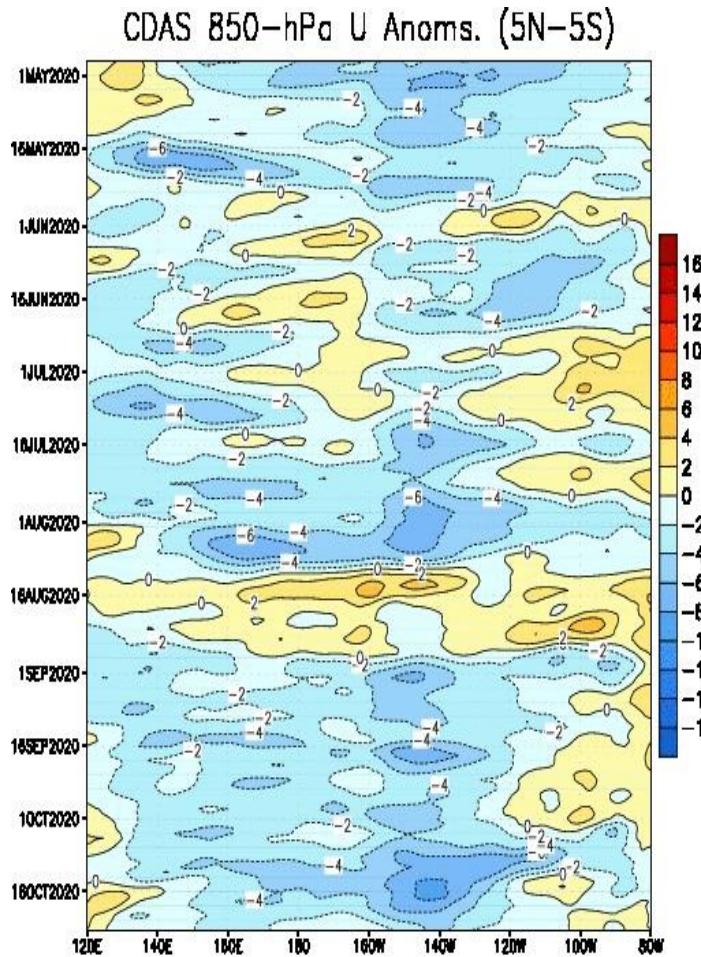
Sea Level Anomalies



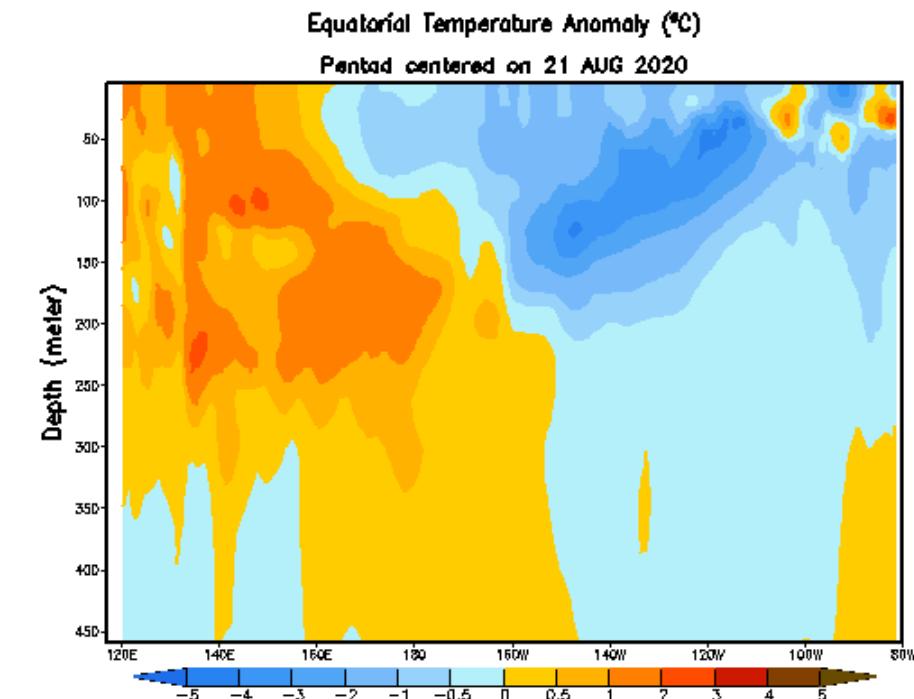
Source: CPC

ENSO

Hovmöllers: Winds, Thermocline depth



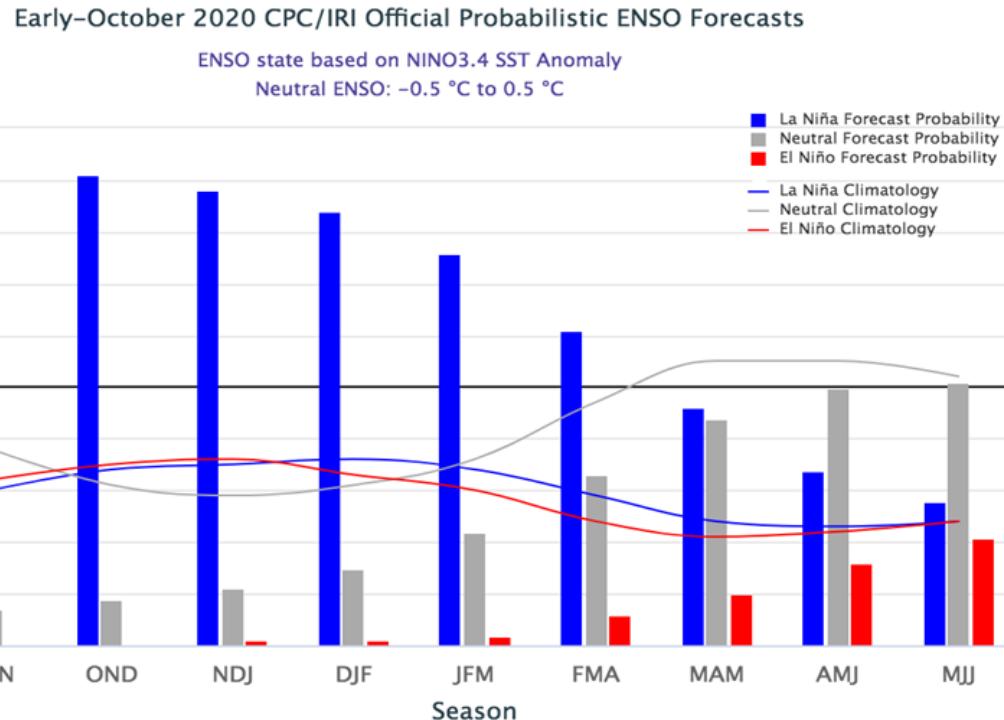
Animation: Pacific Temp. Anomaly



ENSO Outlook

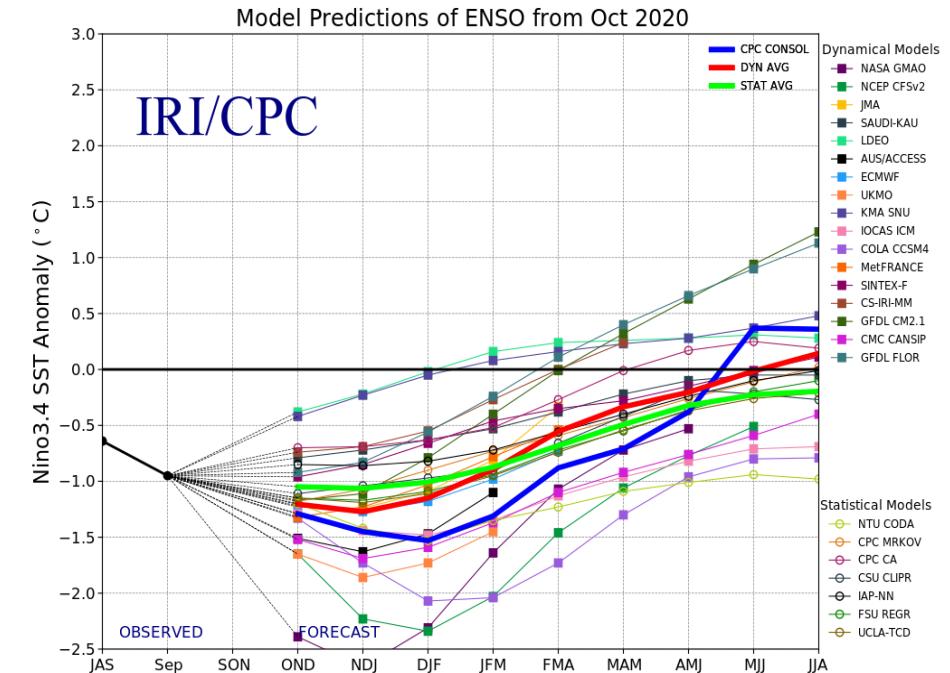
La Niña is likely to continue through the Northern Hemisphere winter 2020-21 (~85% chance) and into spring 2021 (~60% chance during February-April).*

CPC/IRI Probabilistic Forecast



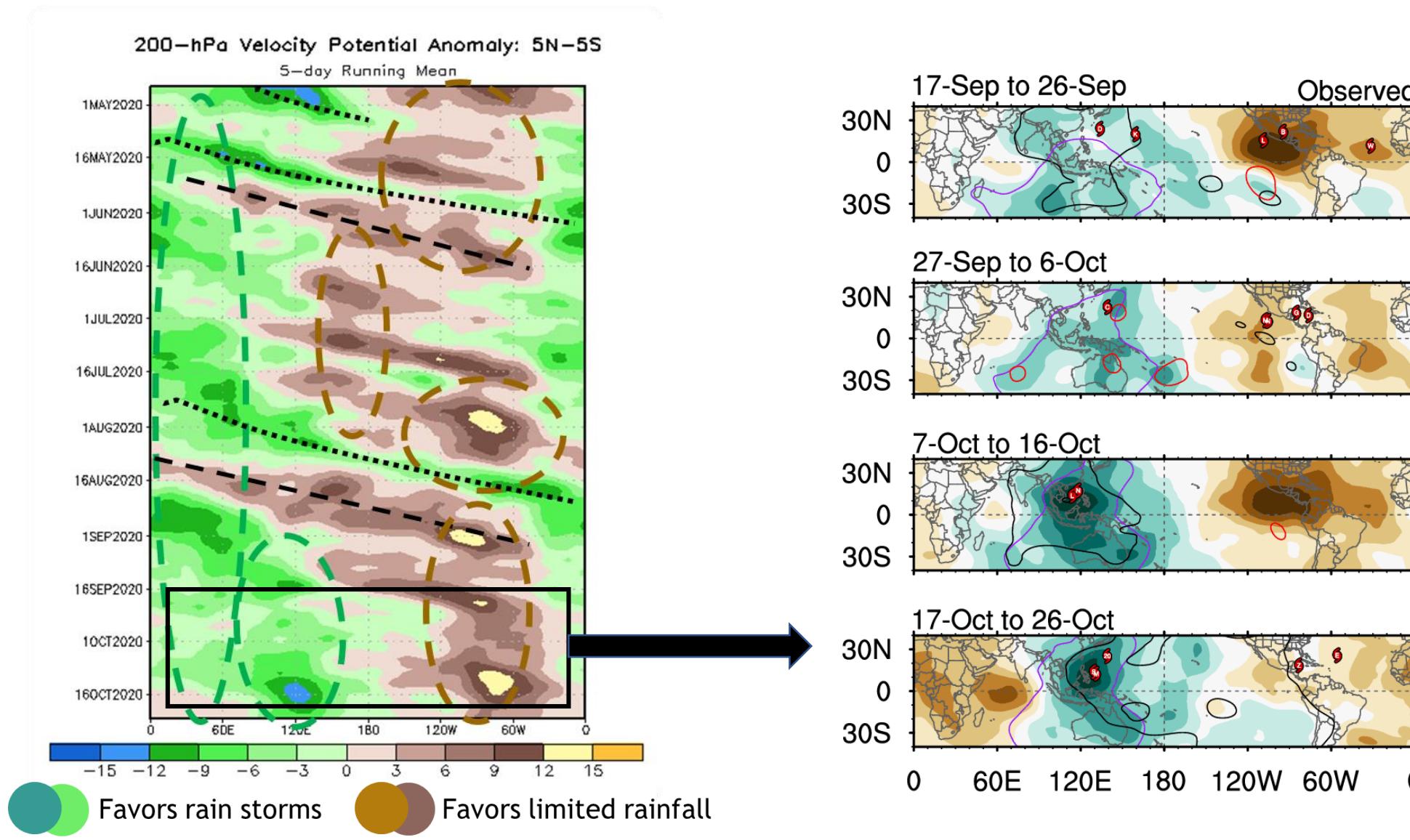
Source: CPC

IRI/CPC Dynamic Models



Source: IRI/CPC, 19 October

Madden-Julian Oscillation (MJO)



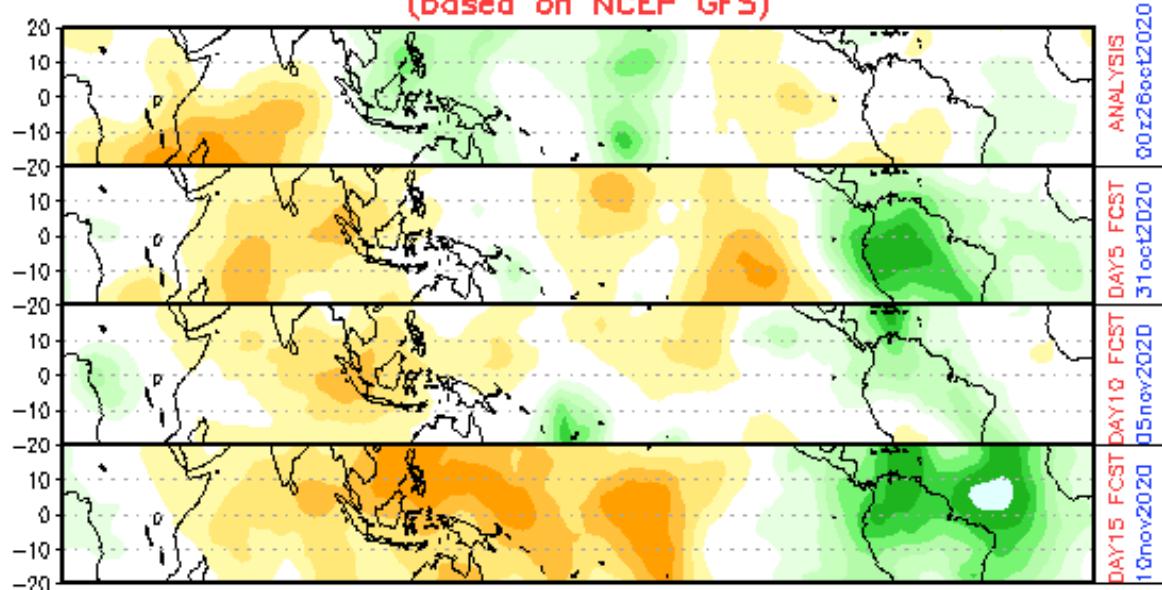
Source: CPC

MJO Forecasts

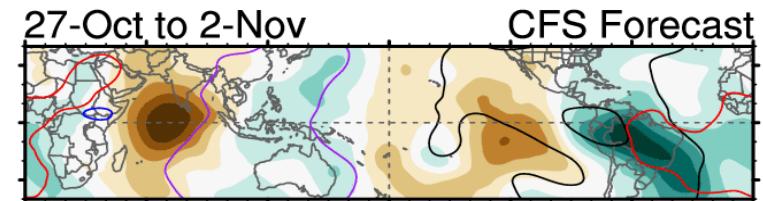
CFS

GFS

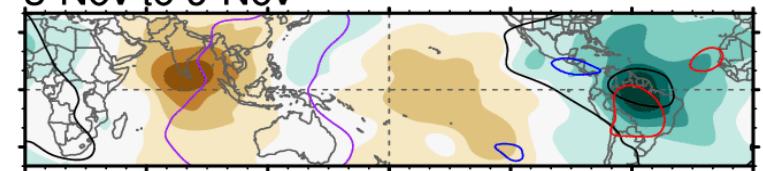
CHI 200 hPa 15-DAY forecast (00z26oct2020–10nov2020)
(based on NCEP GFS)



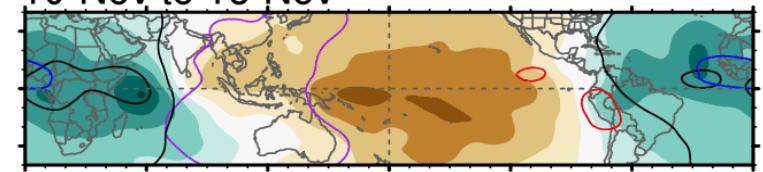
27-Oct to 2-Nov



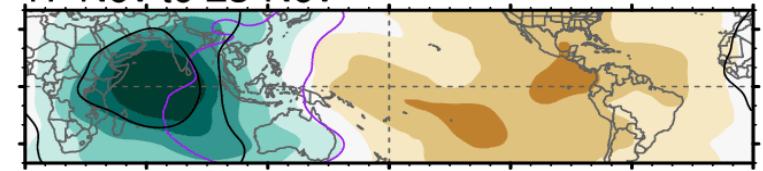
3-Nov to 9-Nov



10-Nov to 16-Nov



17-Nov to 23-Nov



0 60E 120E 180 120W 60W 0



ncics.org/mjo

MJO Kelvin x2
Low ER
-9 -7 -5 -3 -1 1 3 5 7 9 x10⁶ m² s⁻¹
Contours at -2, -6 x10⁶ m² s⁻¹
Carl Schreck
carl_schreck@ncsu.edu

7-day CHI200 with CFS forecasts

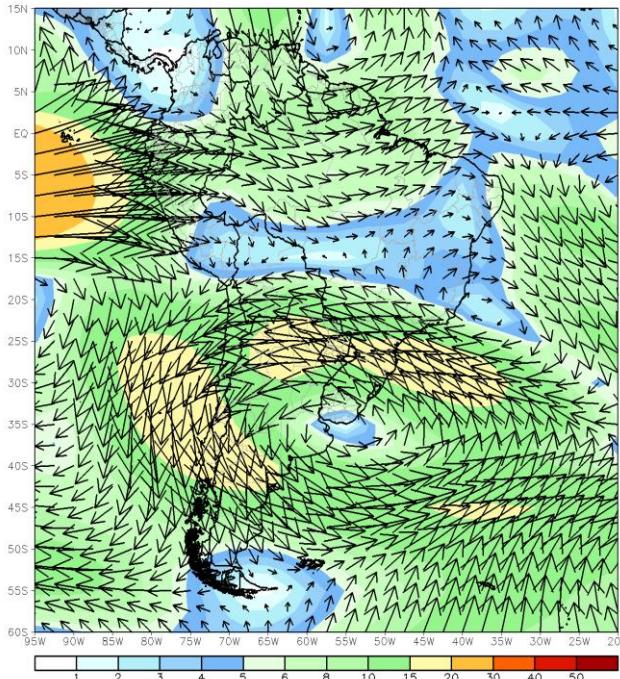
Wed 2020-09-16 1018 UTC

Last week's anomalies for South America

200 hPa Flow

CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)

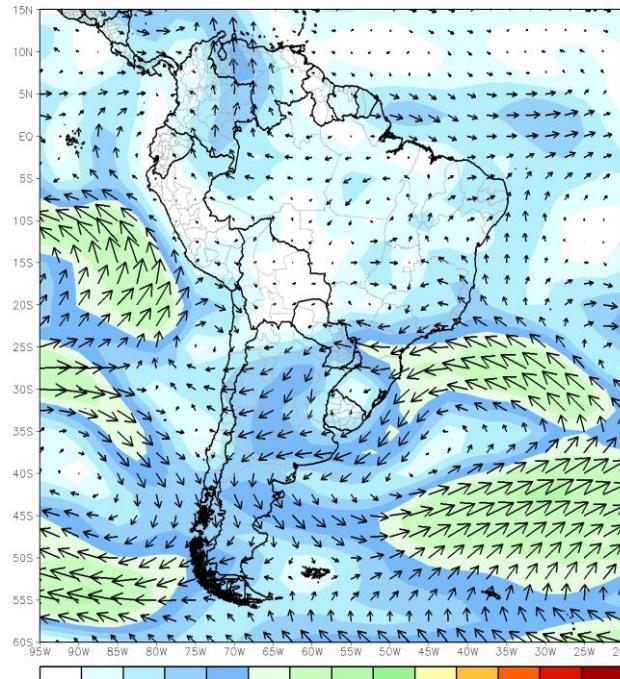
Period: 180ct2020 - 240ct2020



850 hPa Flow

CDAS 850mb 7-Day Mean Vector Wind Anomaly (m/s)

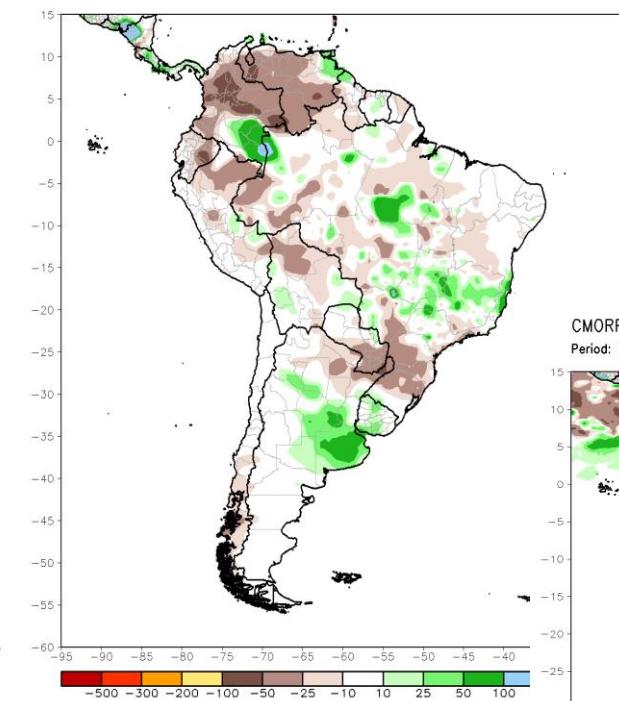
Period: 180ct2020 - 240ct2020



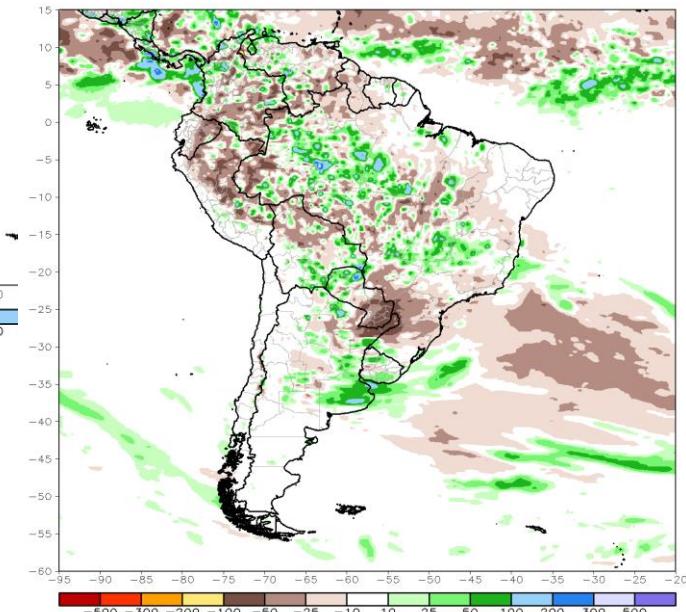
Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)

Period: 190ct2020 - 250ct2020



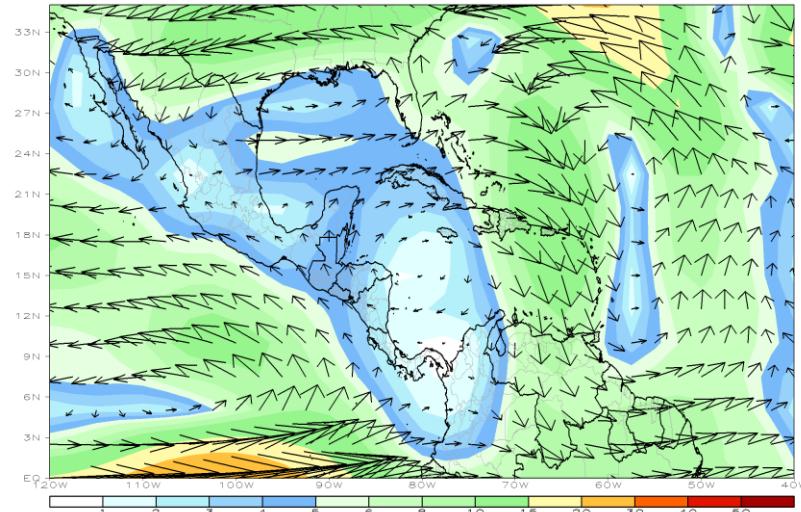
CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 180ct2020 - 240ct2020



Last Week's anomalies for the Tropical Americas

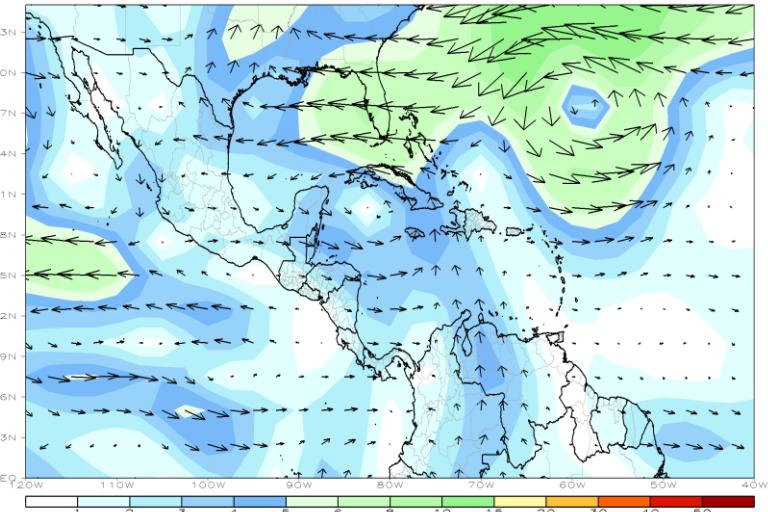
200 hPa Flow

CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 18Oct2020 – 24Oct2020



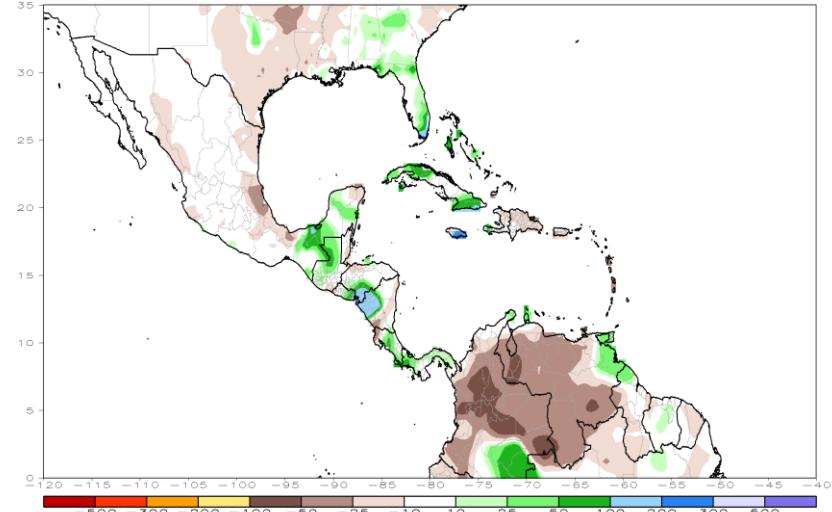
850 hPa Flow

CDAS 850mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 18Oct2020 – 24Oct2020

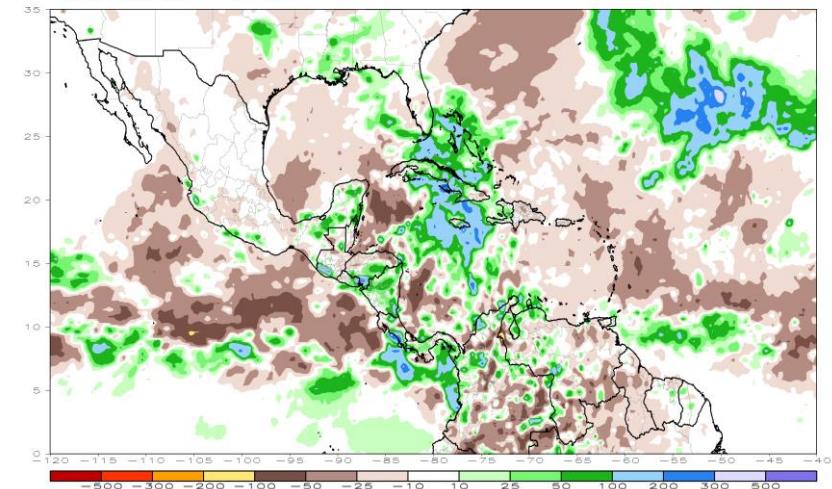


Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 19Oct2020 – 25Oct2020



CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 18Oct2020 – 24Oct2020



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

¡Gracias!

Thank you!