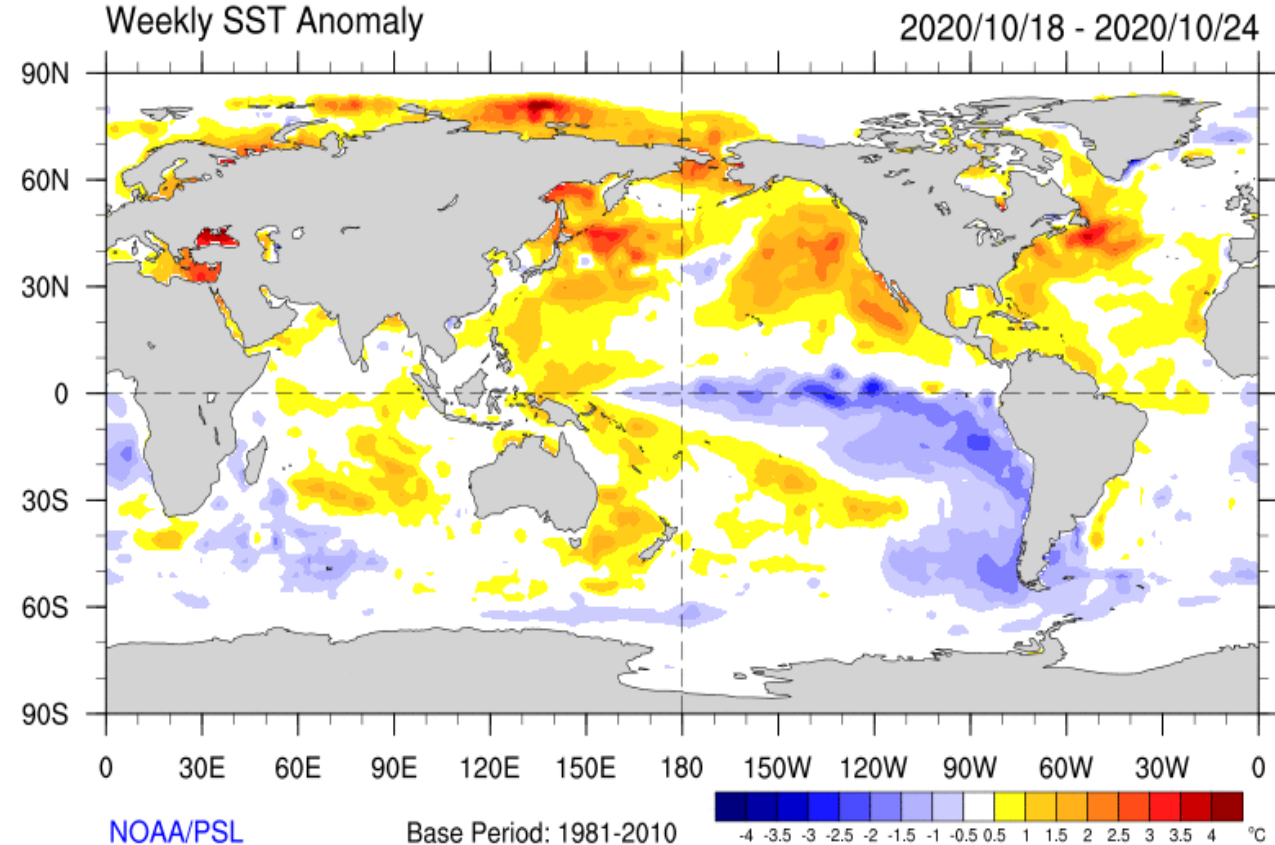
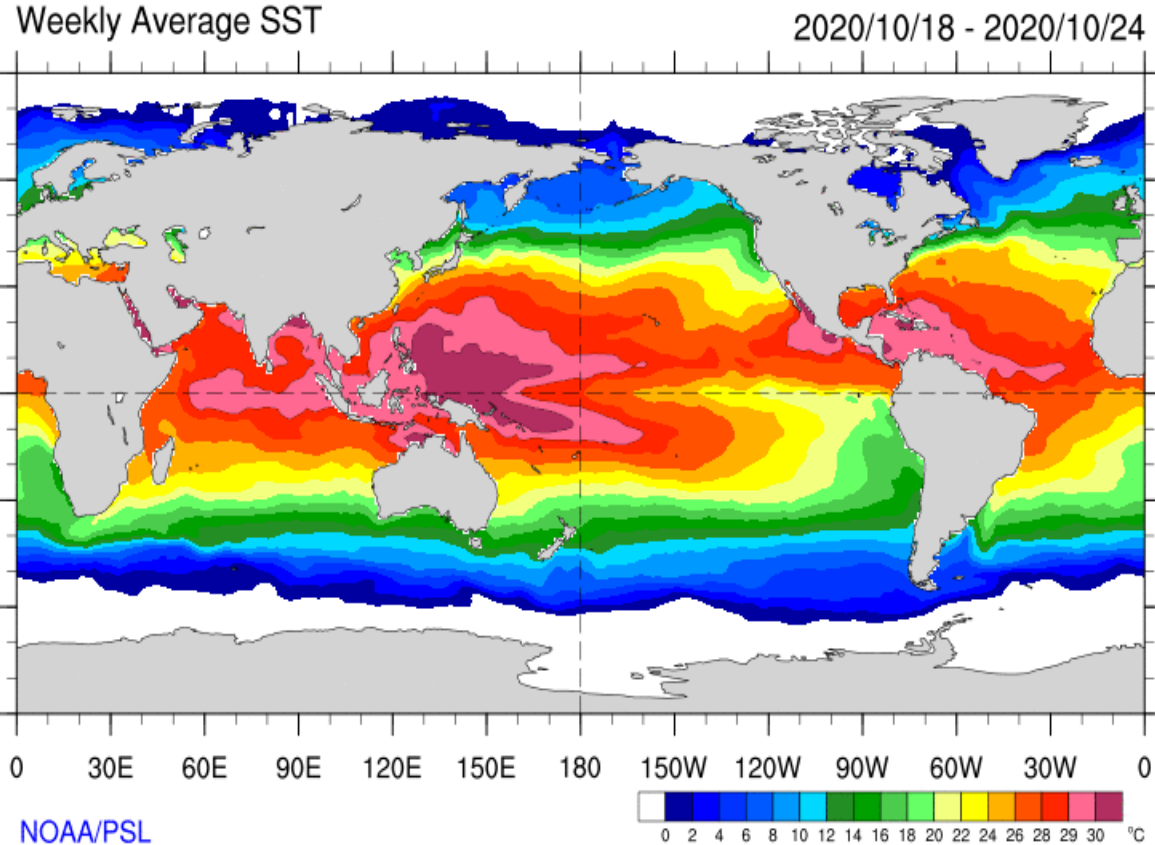


Monthly Regional Focus Group Session

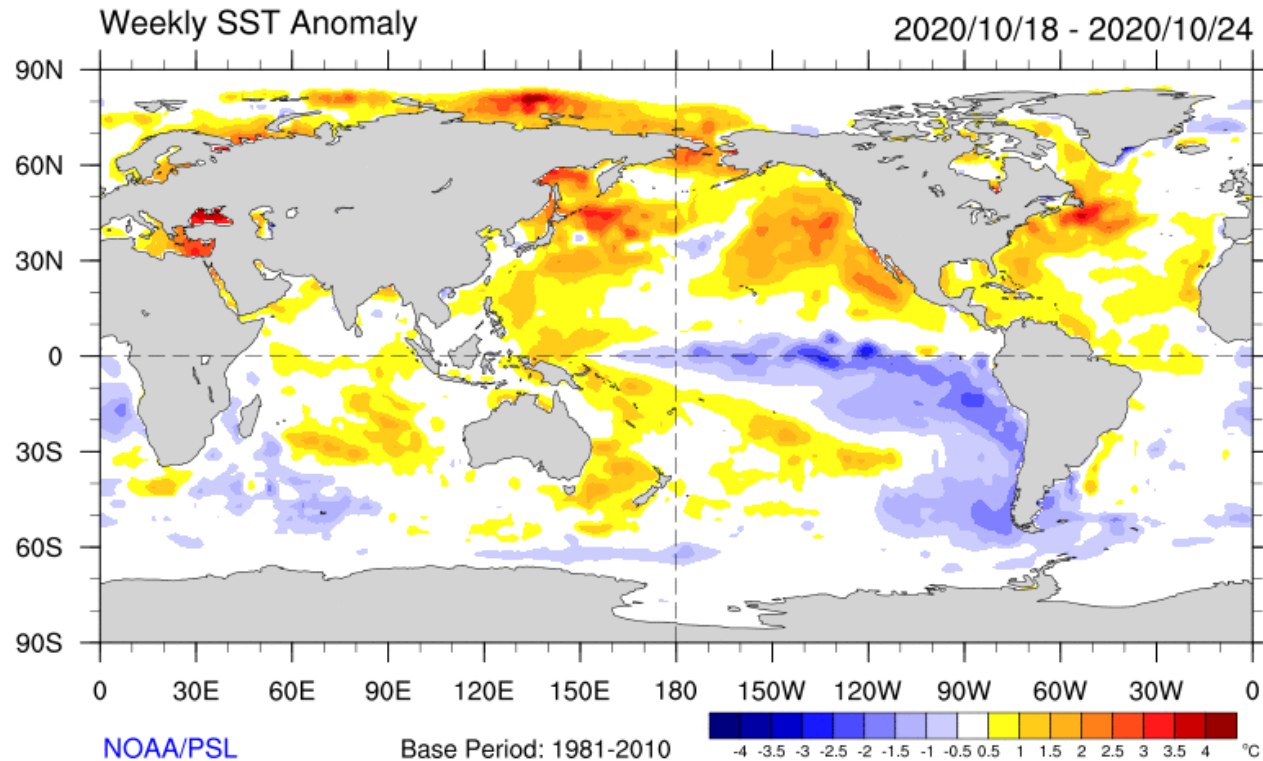
Wednesday 27 October 2020

Sea Surface Temperature Anomalies (Last Week)

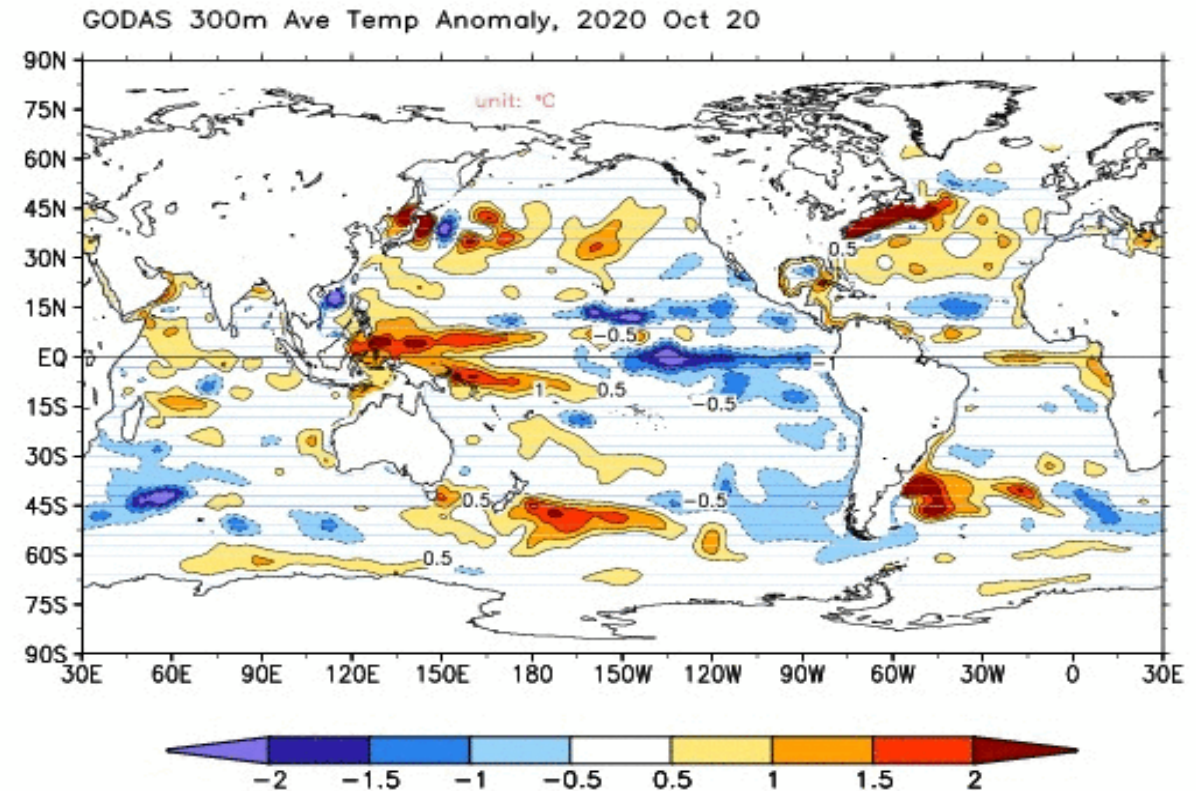


Deep Ocean Temperature Anomalies last longer:

Sea Surface Temperature Anomaly



Top 300-m Sea Temperature Anomaly



Source: GODAS, CPC

ENSO: La Niña

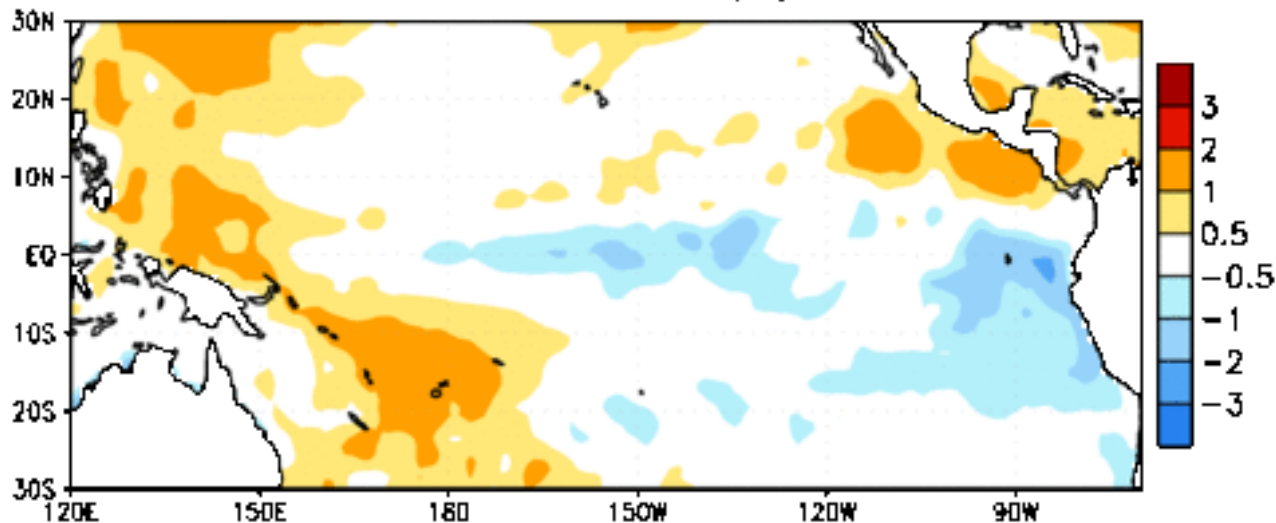
La Niña conditions are present.*

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.

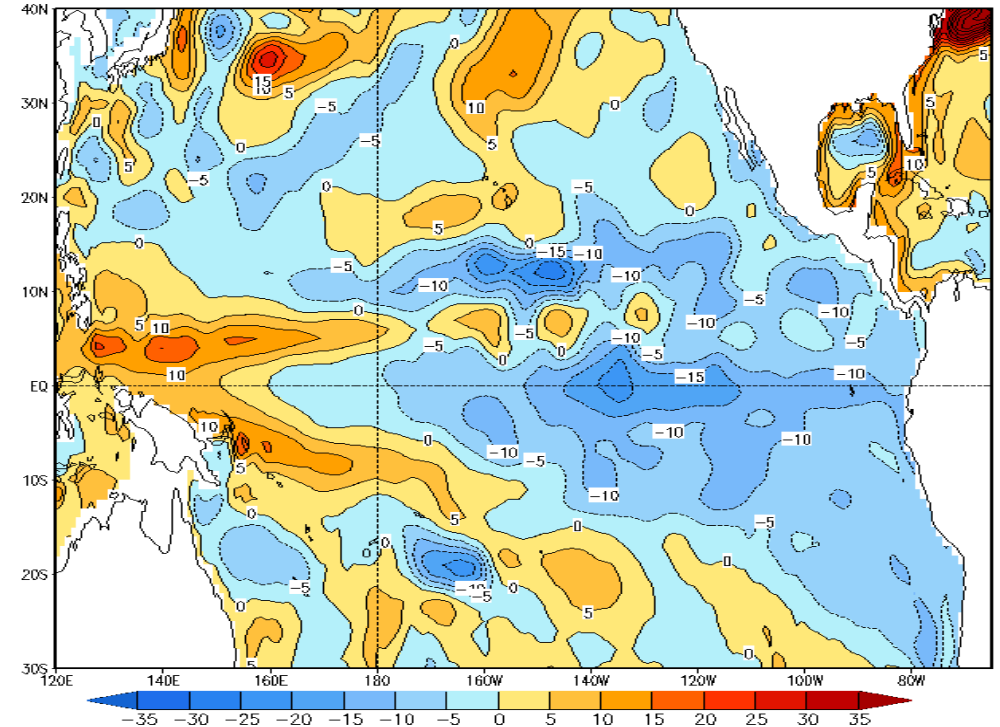
Temperature Anomalies

Week centered on 05 AUG 2020
SST Anomalies (°C)



Sea Level Anomalies

Pentad Sea Level Anom (cm), Oct 20 2020

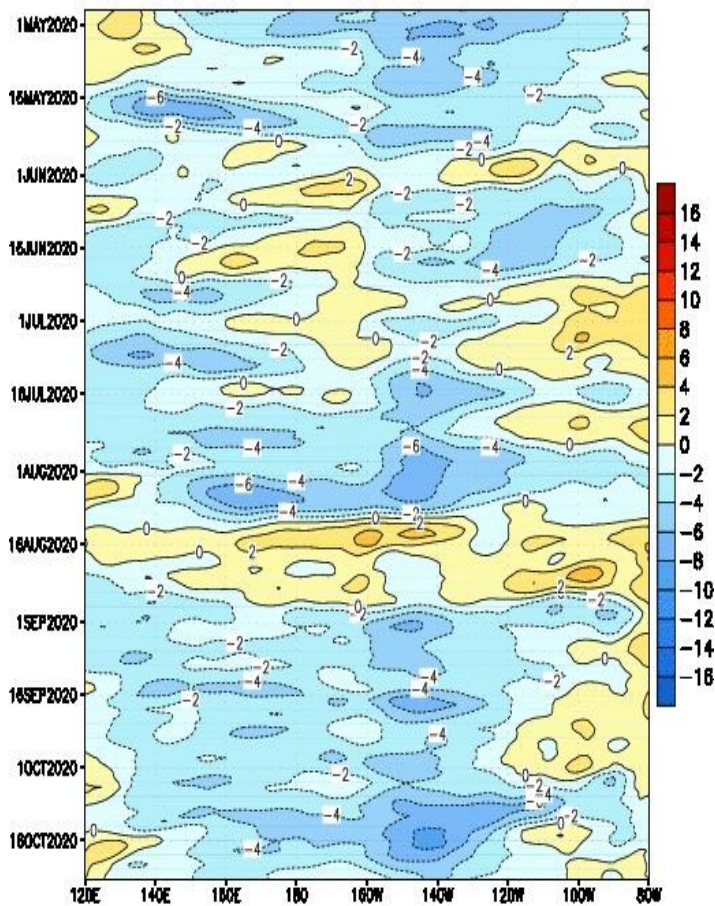


ENSO

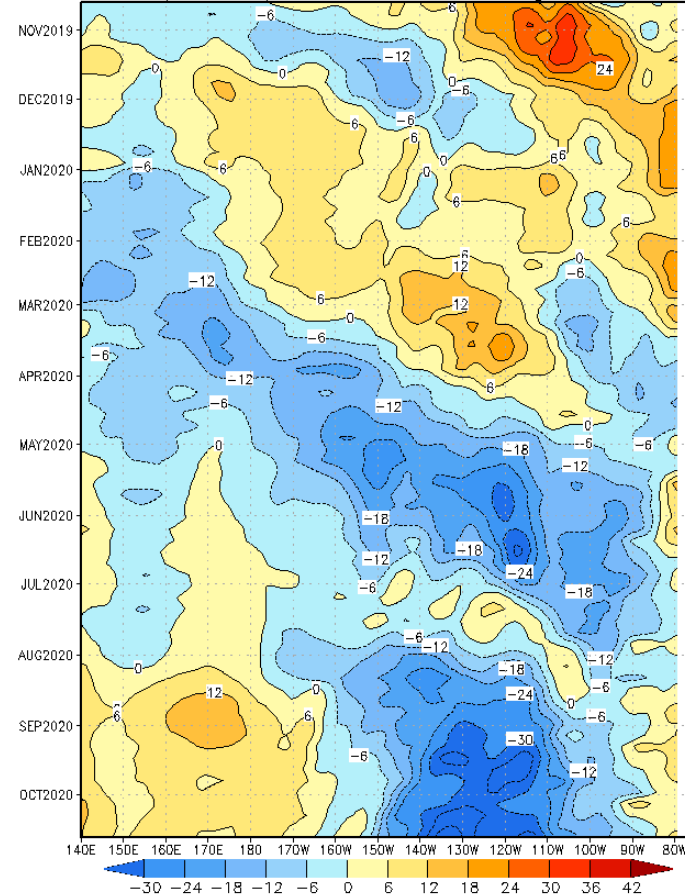
Hovmöllers: Winds, Thermocline depth

Animation: Pacific Temp. Anomaly

CDAS 850-hPa U Anoms. (5N-5S)

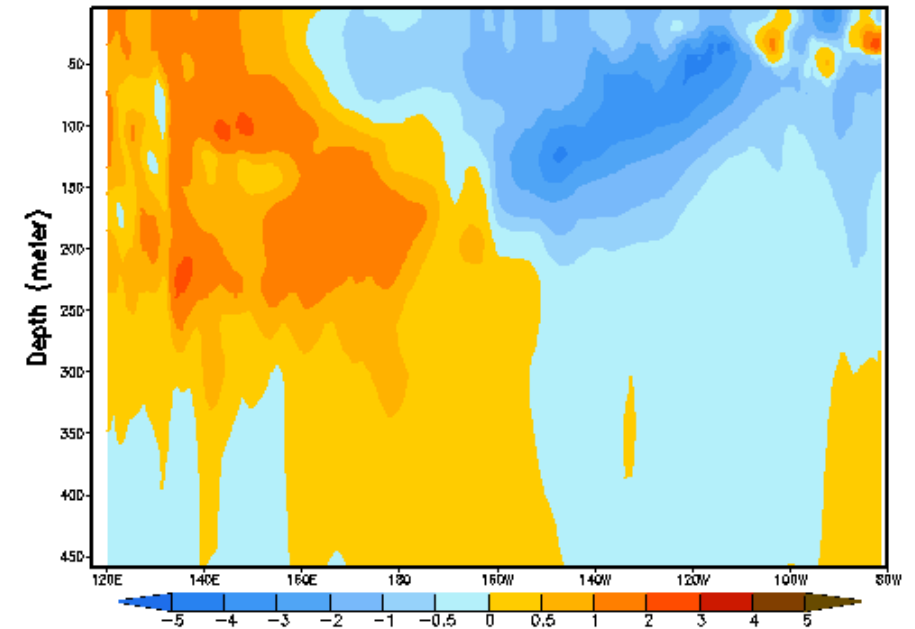


Depth 20°C Pentad Anomaly, ending Oct 22 2020
(2°S-2°N), 12-Pentads Running Mean



Equatorial Temperature Anomaly (°C)

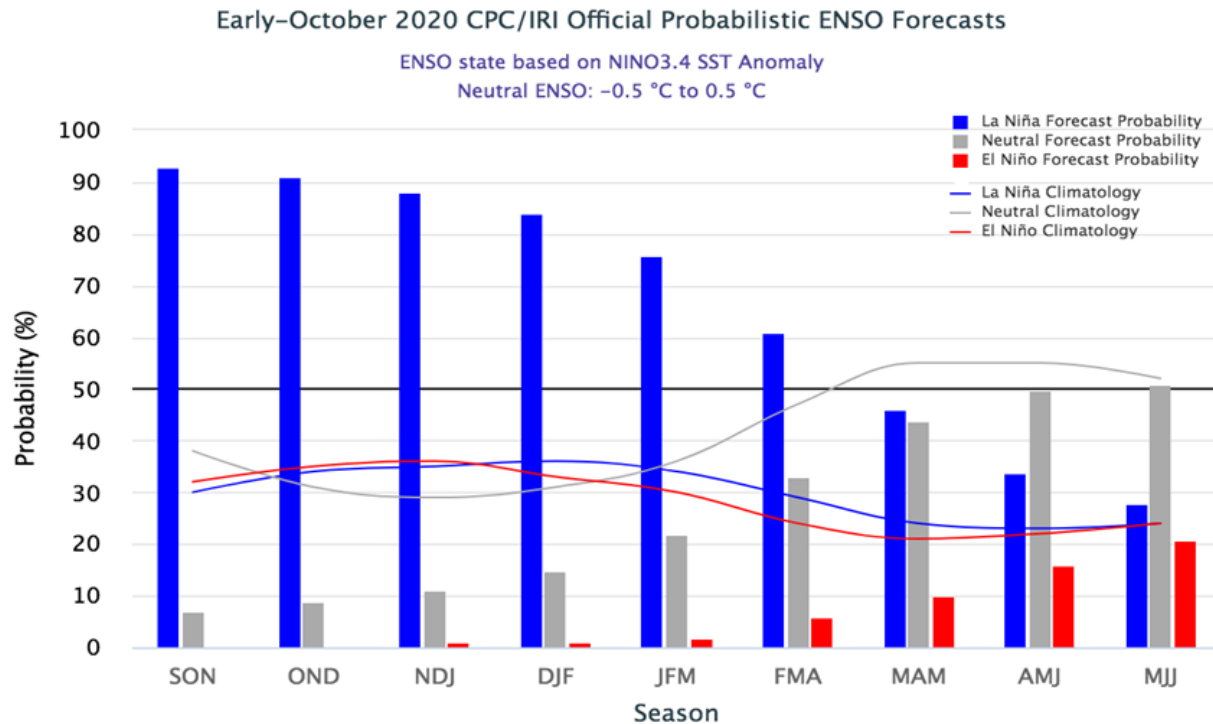
Pentad centered on 21 AUG 2020



ENSO Outlook

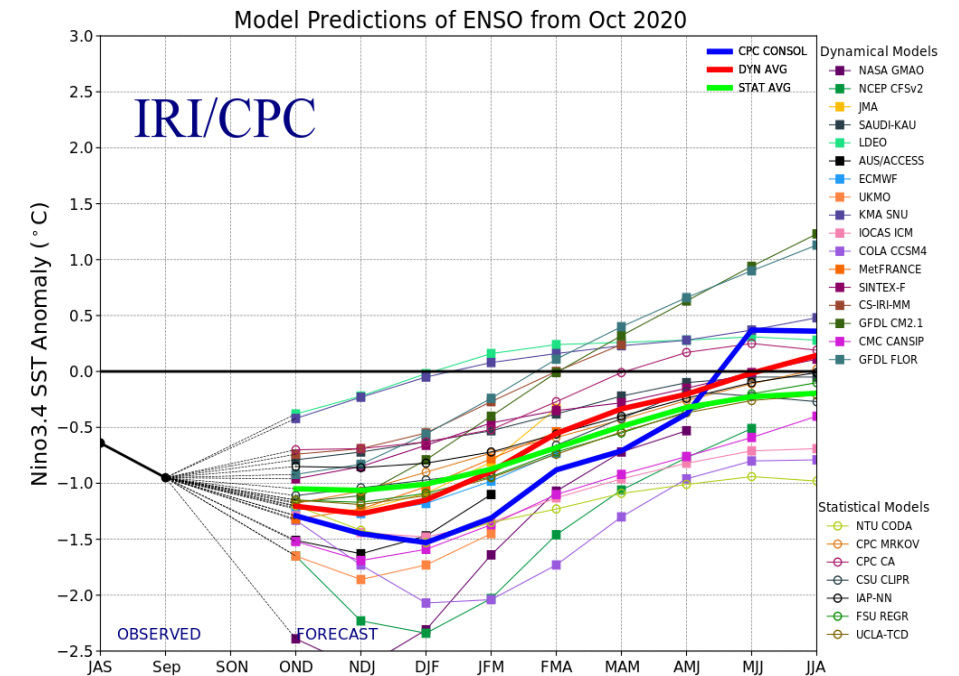
La Niña is likely to continue through the Northern Hemisphere winter 2020-21 (~85% chance) and into spring 2021 (~60% chance during February-April).*

CPC/IRI Probabilistic Forecast



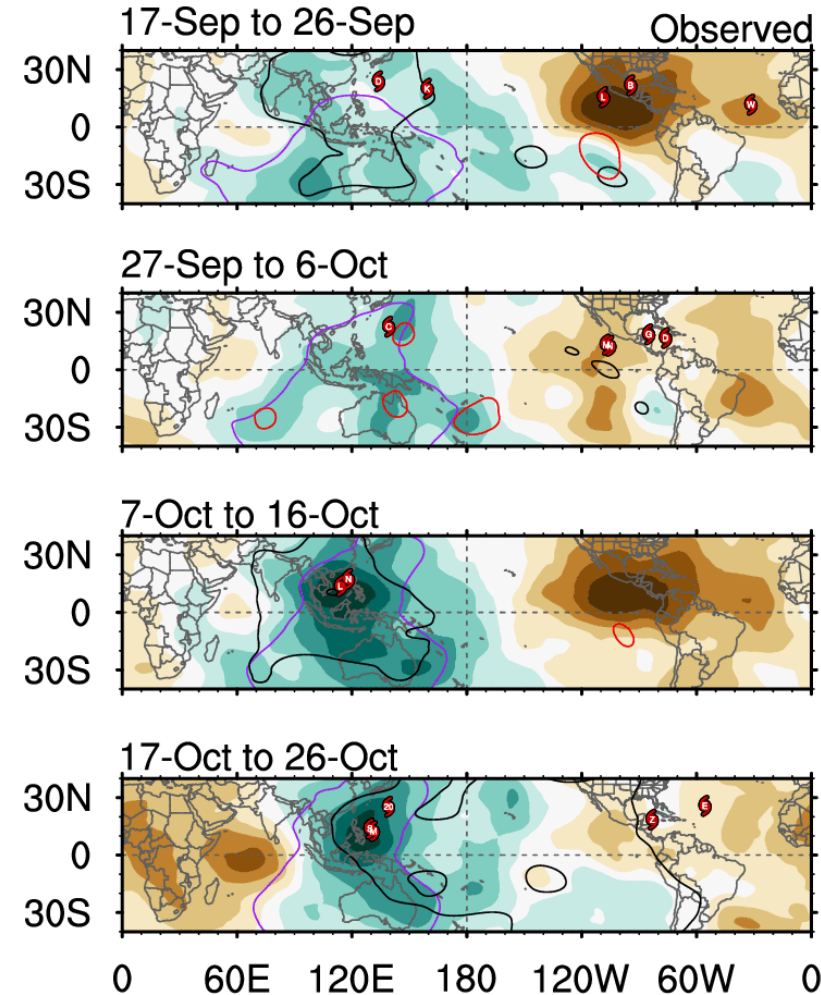
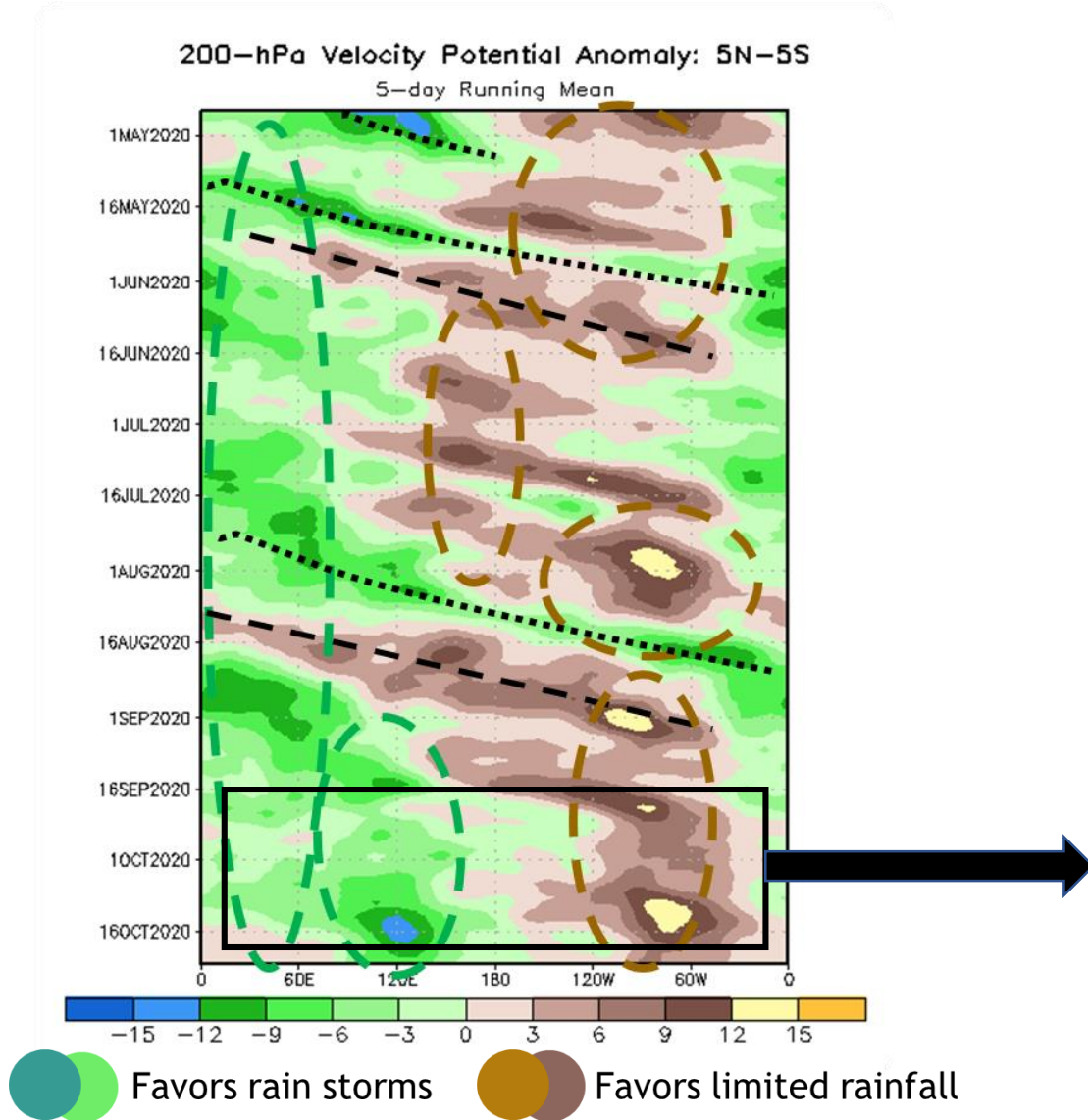
Source: CPC

IRI/CPC Dynamic Models



Source: IRI/CPC, 19 October

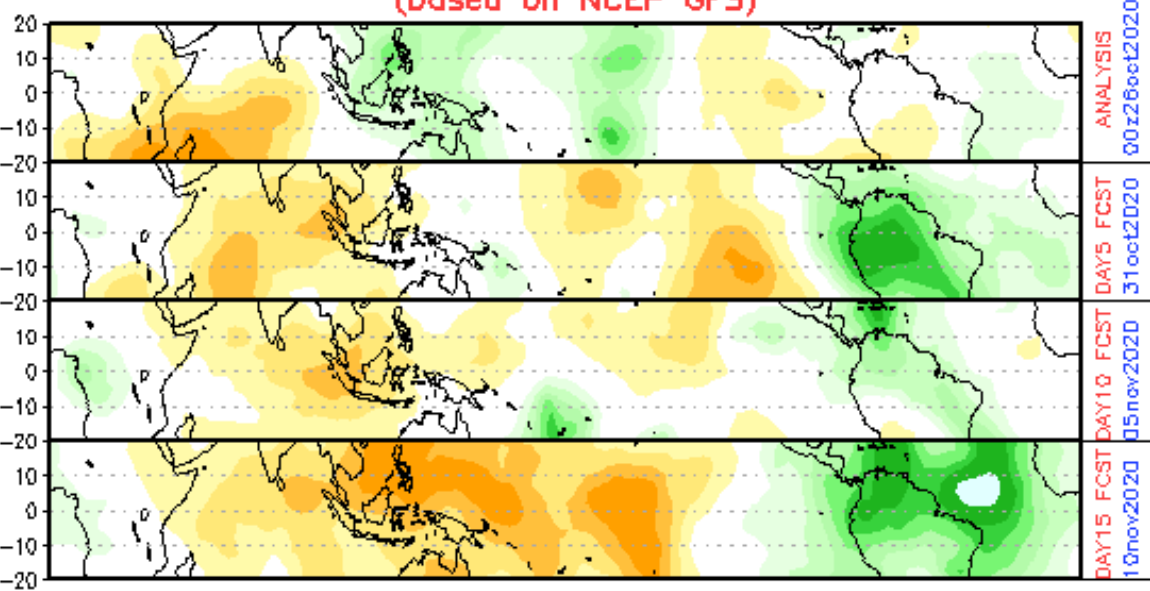
Madden-Julian Oscillation (MJO)



MJO Forecasts

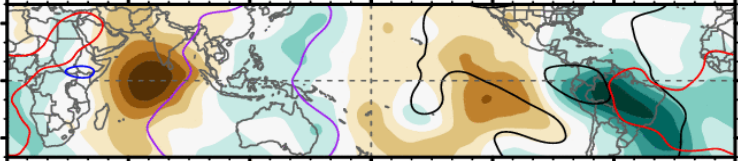
GFS

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

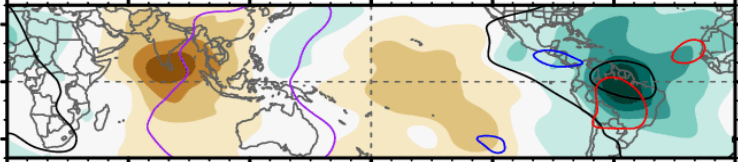


CFS

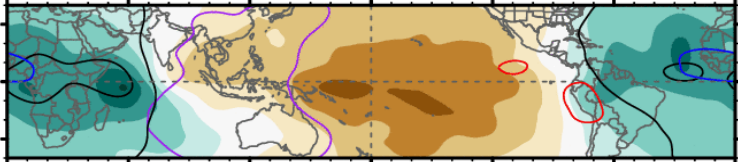
27-Oct to 2-Nov CFS Forecast



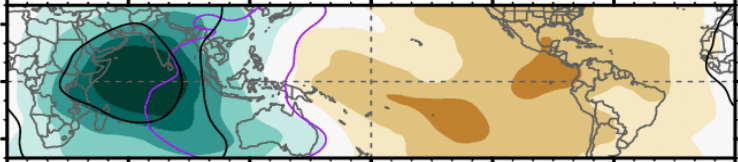
3-Nov to 9-Nov



10-Nov to 16-Nov



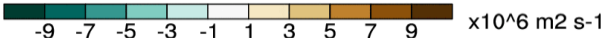
17-Nov to 23-Nov



0 60E 120E 180 120W 60W 0



ncics.org/mjo



7-day CHI200 with CFS forecasts

Wed 2020-09-16 1018 UTC

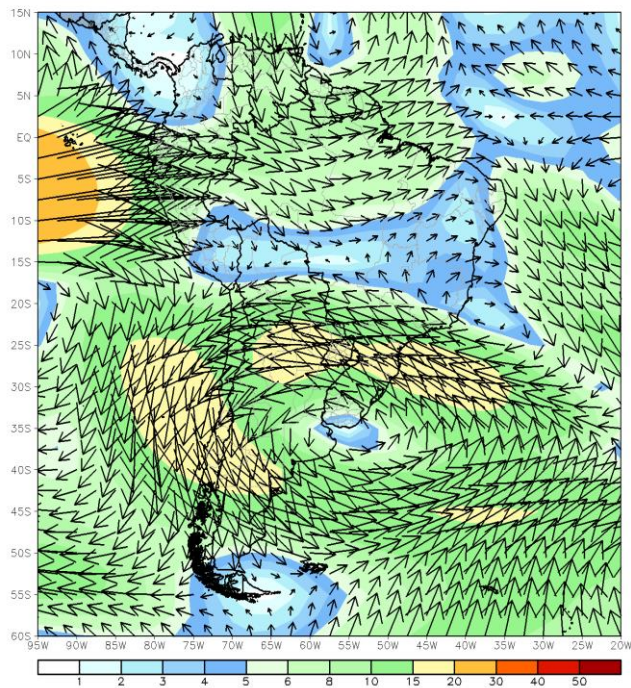
— MJO — Kelvin x2
— Low — ER

Contours at -2, -6 x10^6 m2 s-1
Carl Schreck
carl_schreck@ncsu.edu

Last week's anomalies for South America

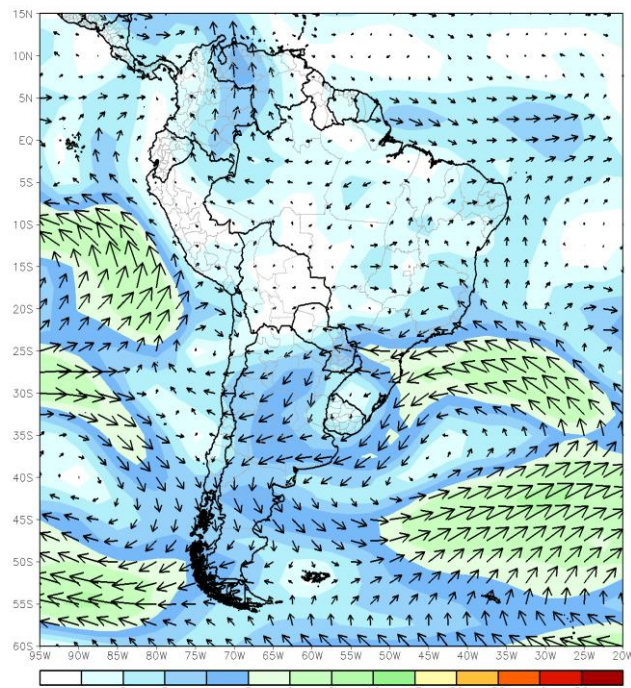
200 hPa Flow

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



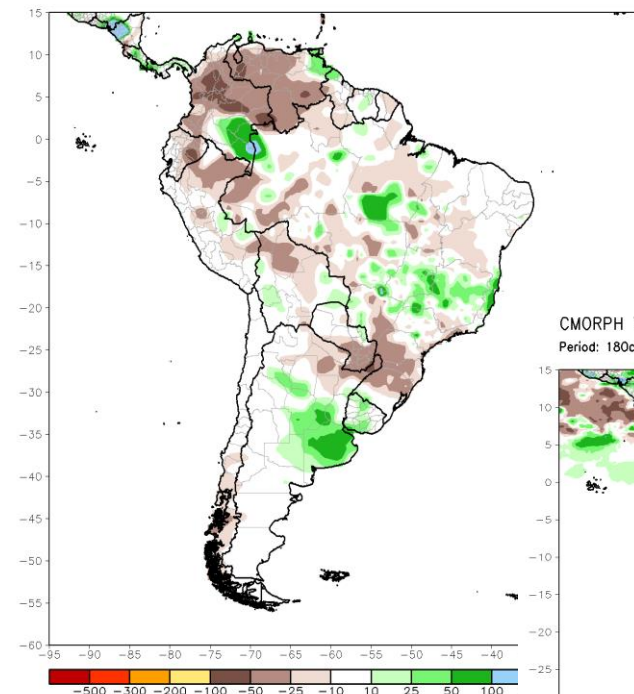
850 hPa Flow

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

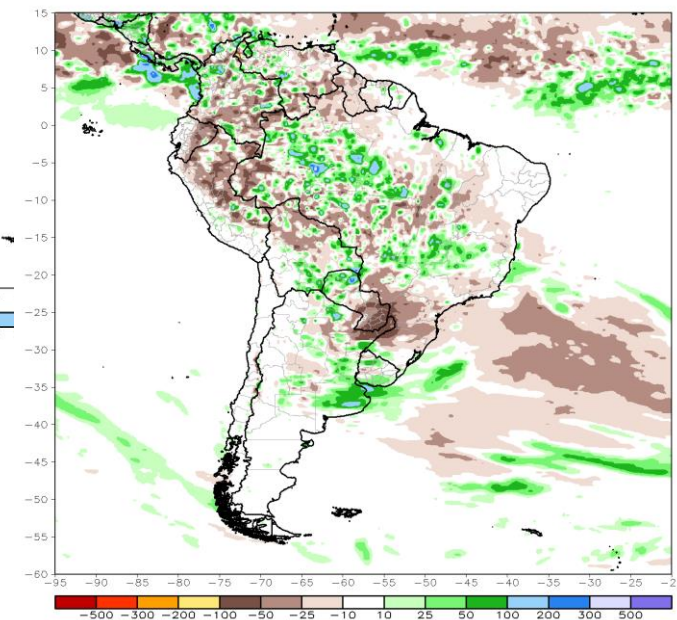


Rainfall

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



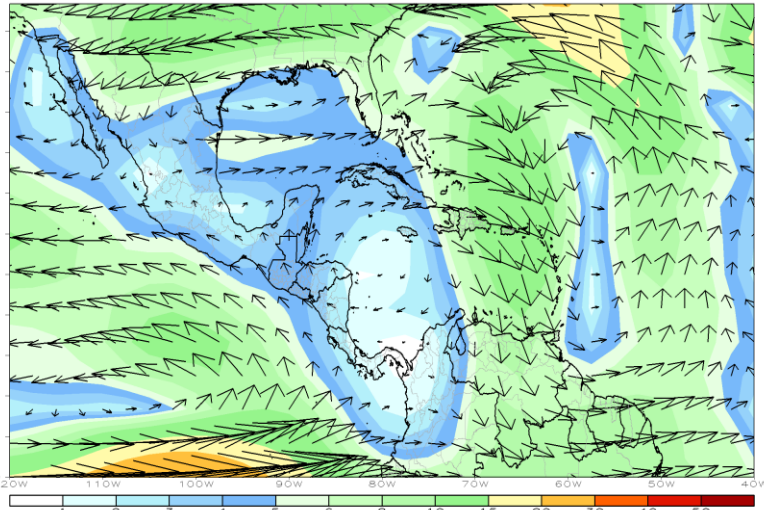
CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 18Oct2020 - 24Oct2020



Last Week's anomalies for the Tropical Americas

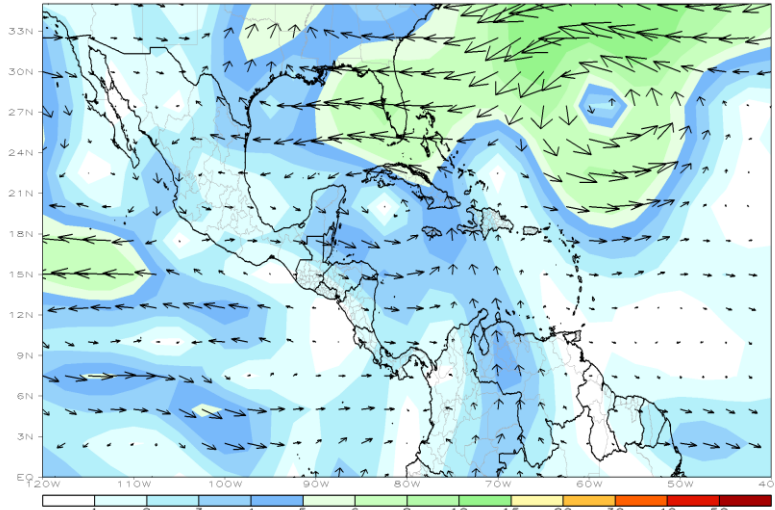
200 hPa Flow

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



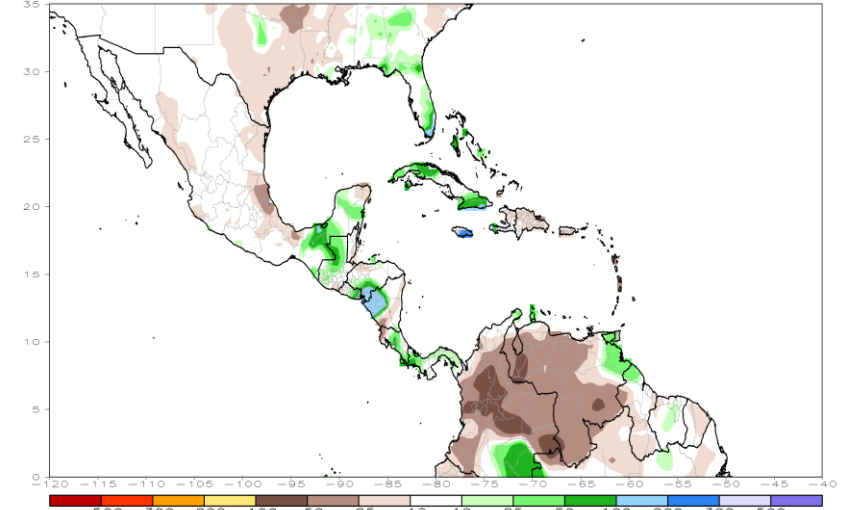
850 hPa Flow

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

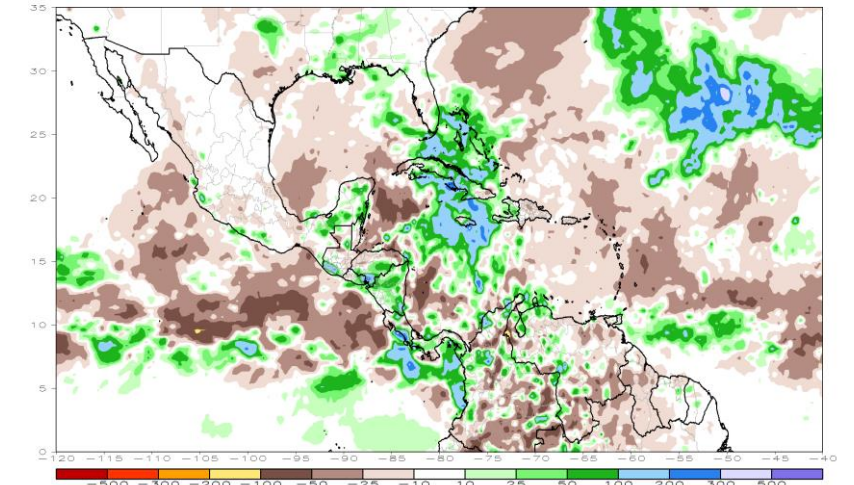


Rainfall

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!