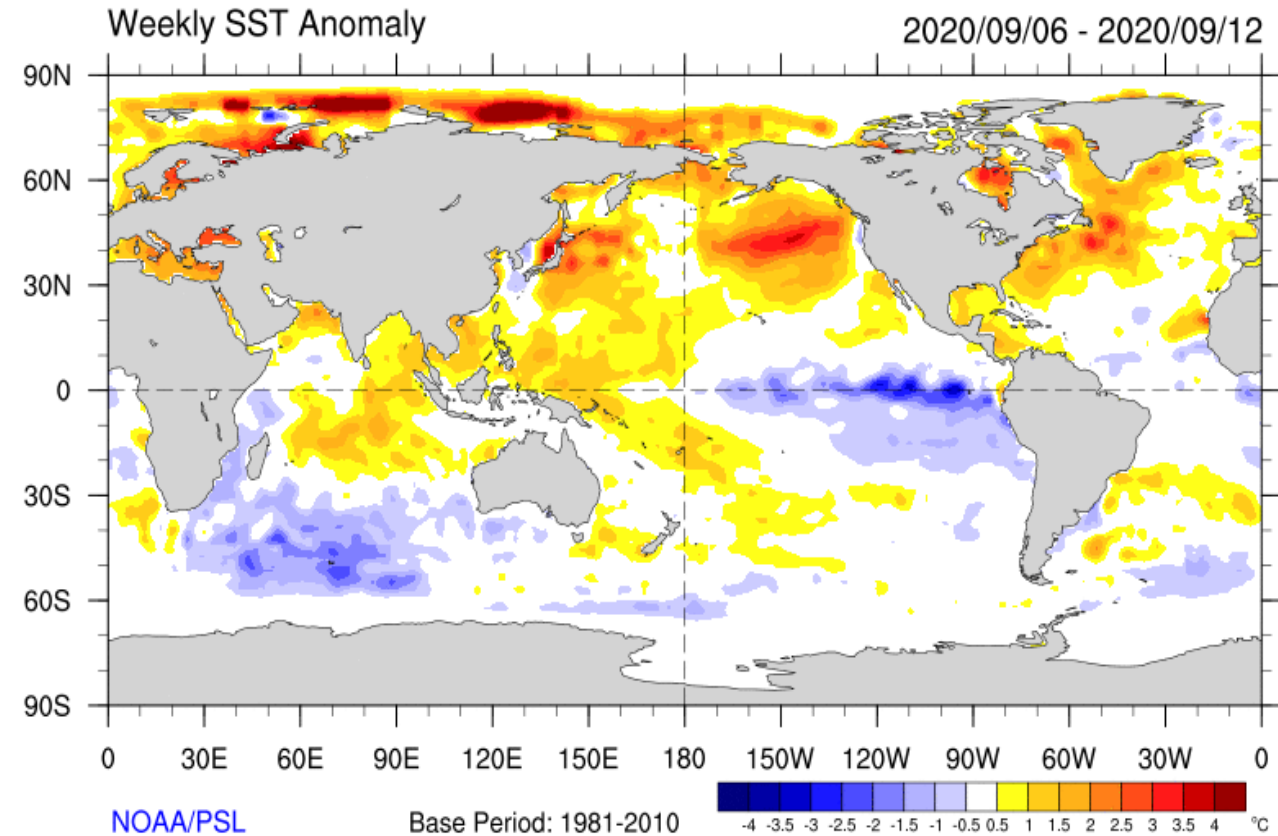
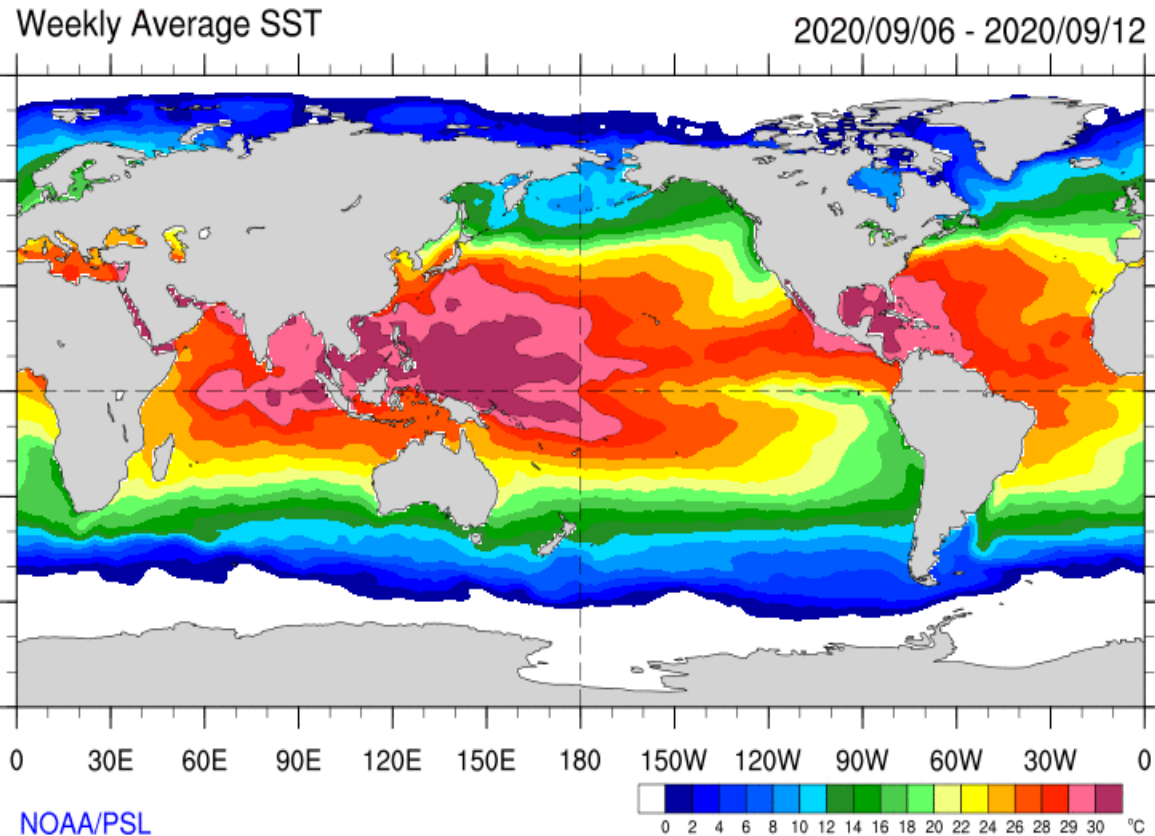




Monthly Regional Focus Group Session

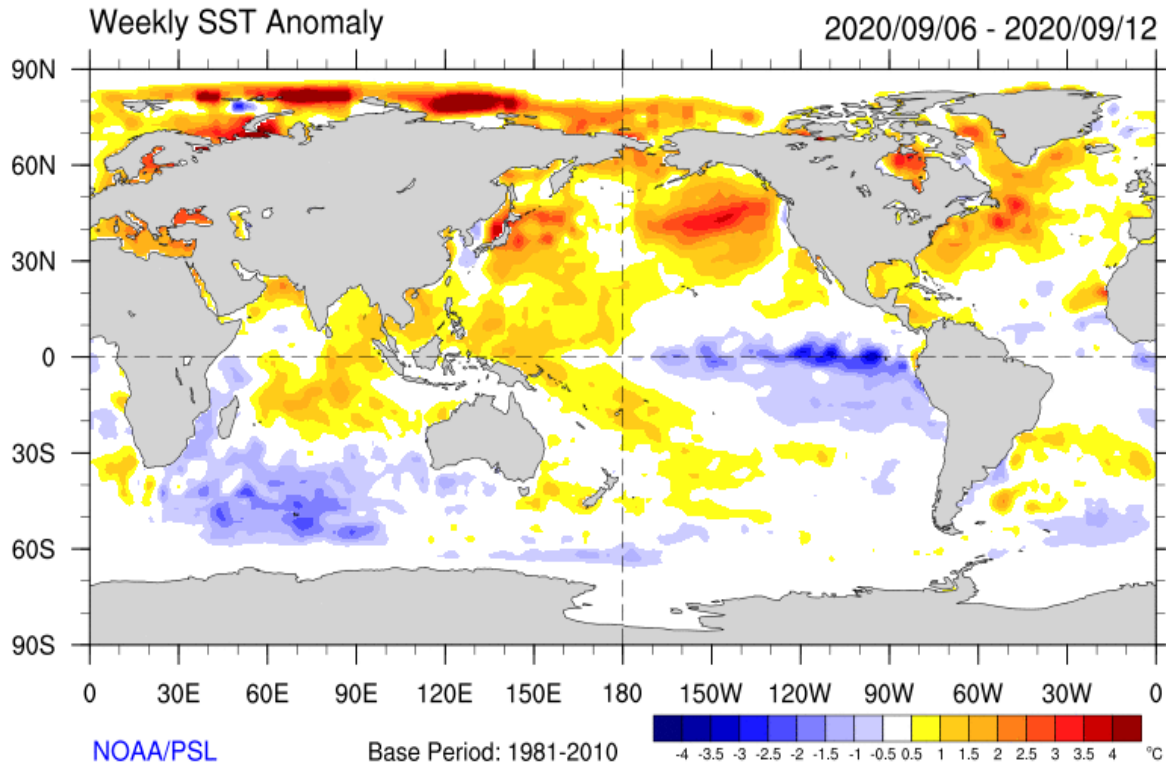
Wednesday 16 September 2020

Sea Surface Temperature Anomalies (Last Week)

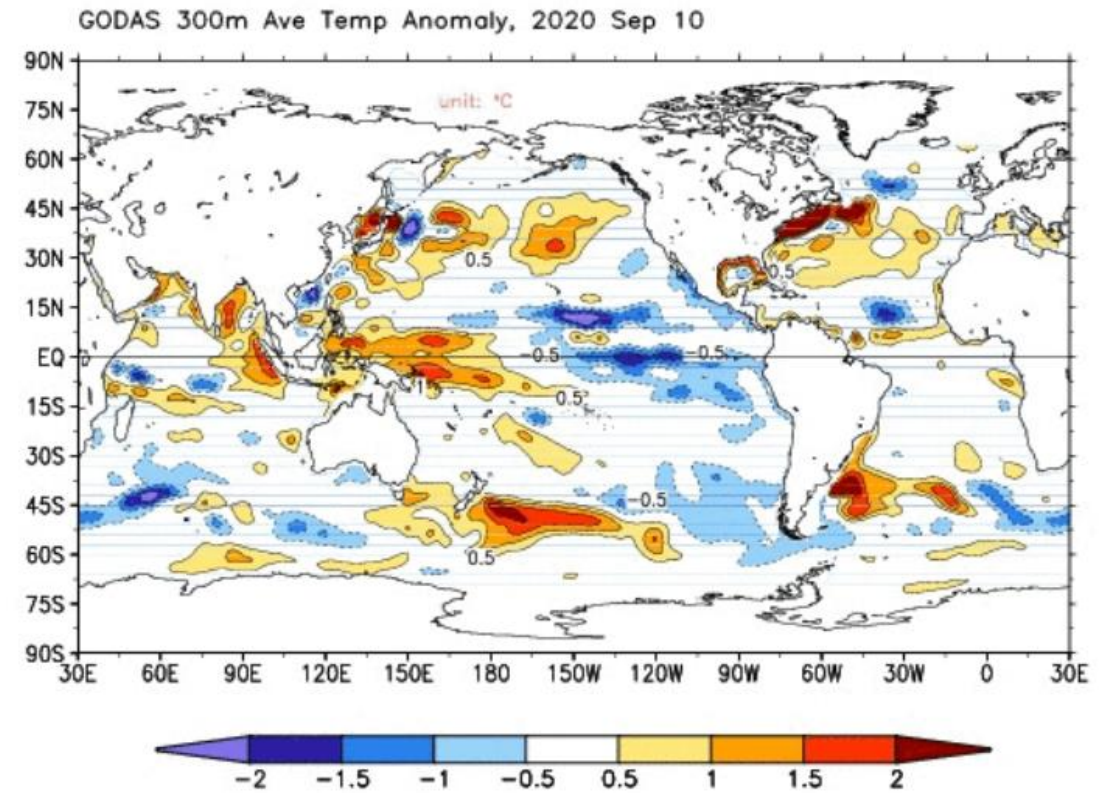


Deep Ocean Temperature Anomalies last longer:

Sea Surface Temperature Anomaly



Top 300-m Sea Temperature Anomaly



Source: GODAS, CPC

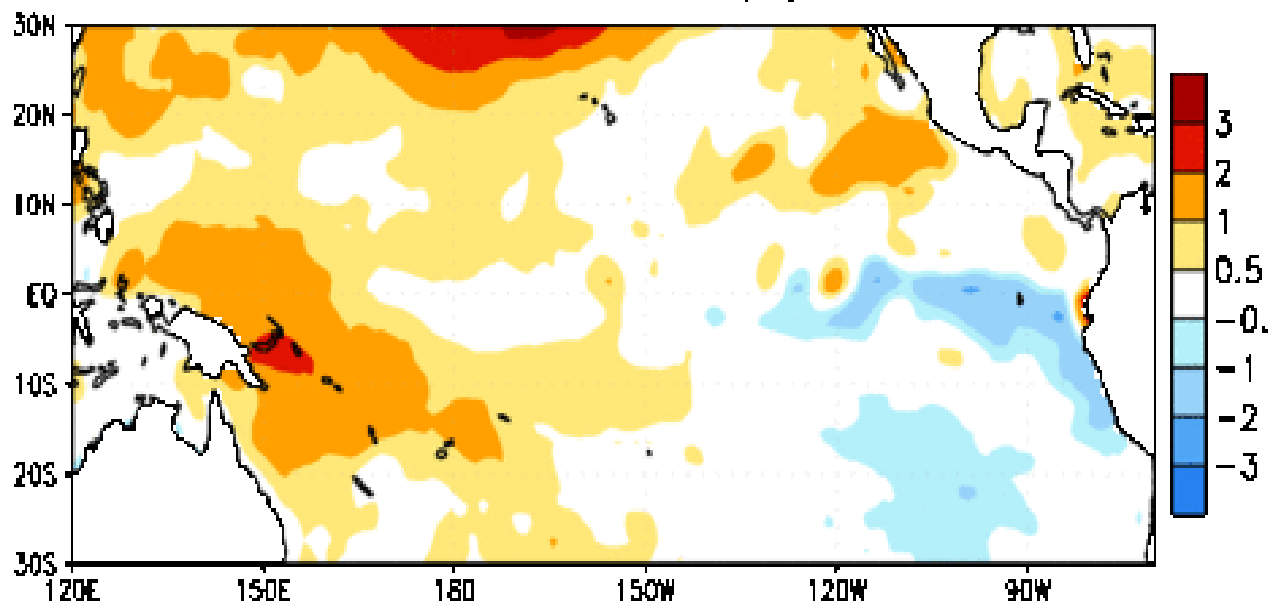
ENSO: La Niña

ENSO Alert System Status: La Niña Advisory

- La Niña conditions are present.*
- Equatorial SSTs are below average across the east-central and eastern Pacific Ocean.
- The tropical atmospheric circulation is consistent with La Niña.

Temperature Anomalies

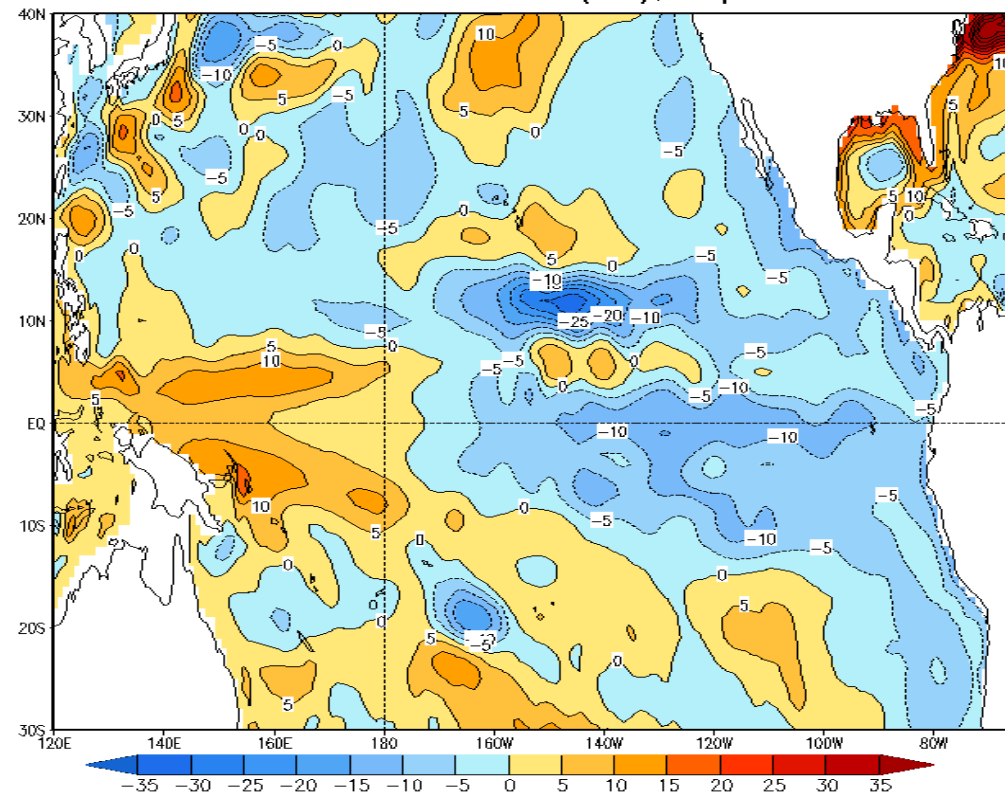
Week centered on 24 JUN 2020
SST Anomalies (°C)



Source: CPC

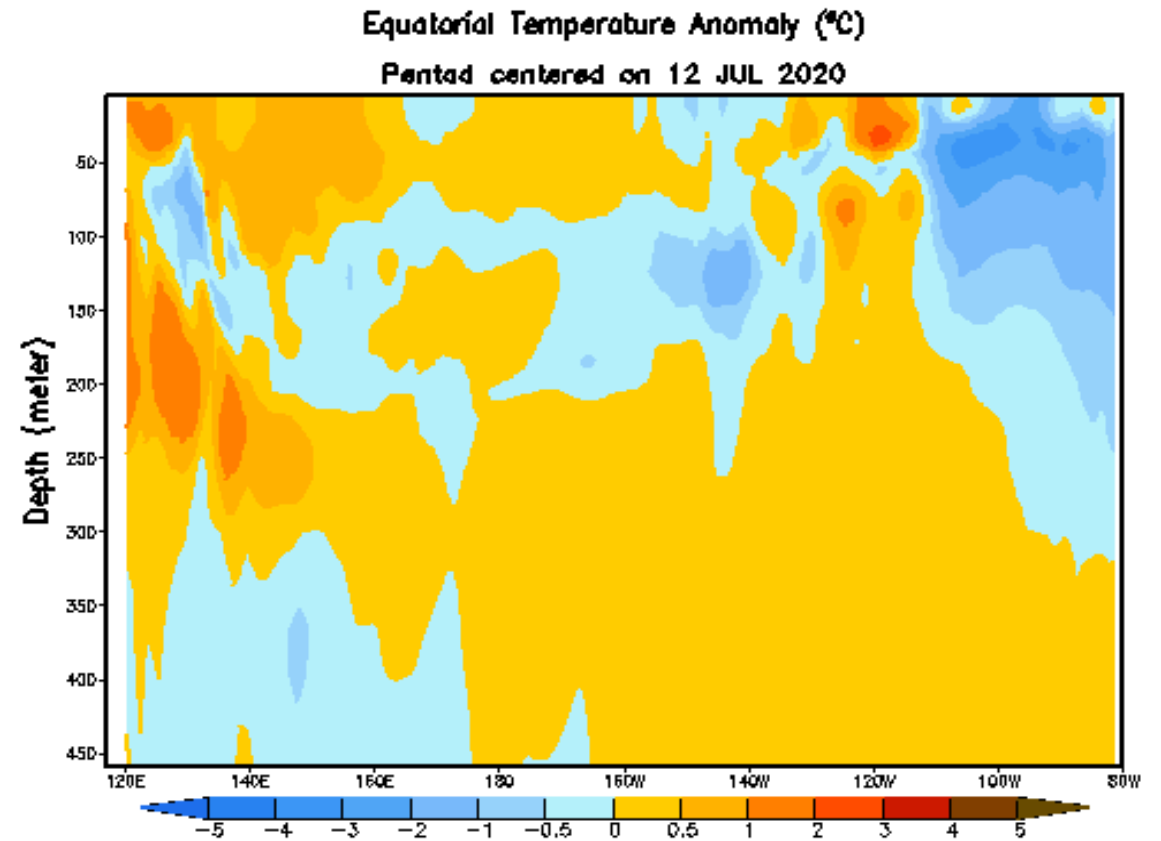
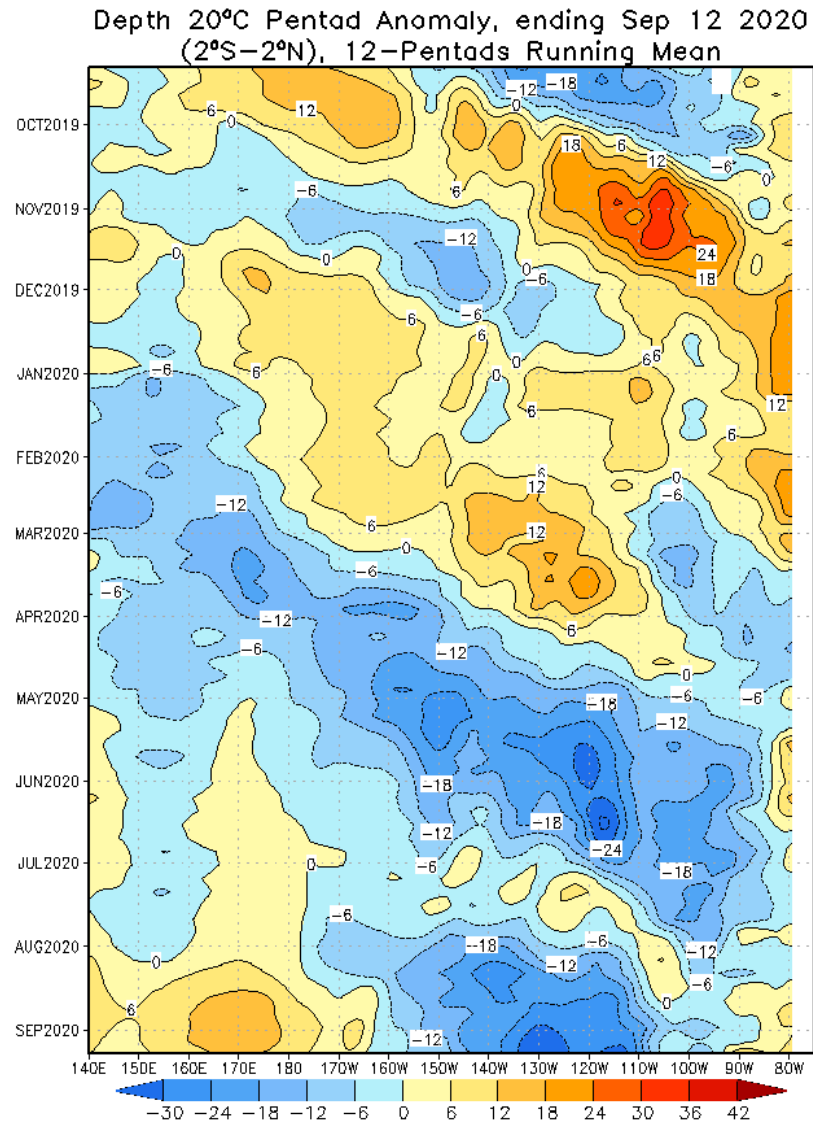
Sea Level Anomalies

Pentad Sea Level Anom (cm), Sep 10 2020



ENSO

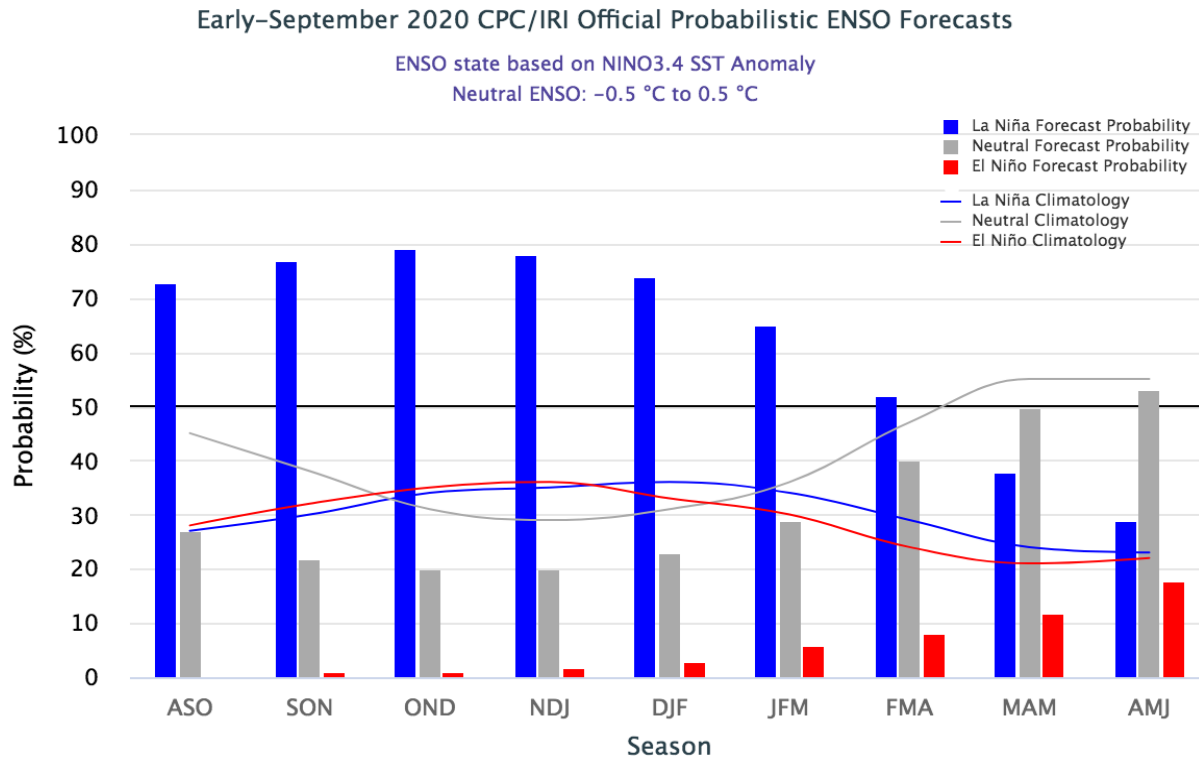
Hovmöller of thermocline depth anomalies



ENSO Outlook

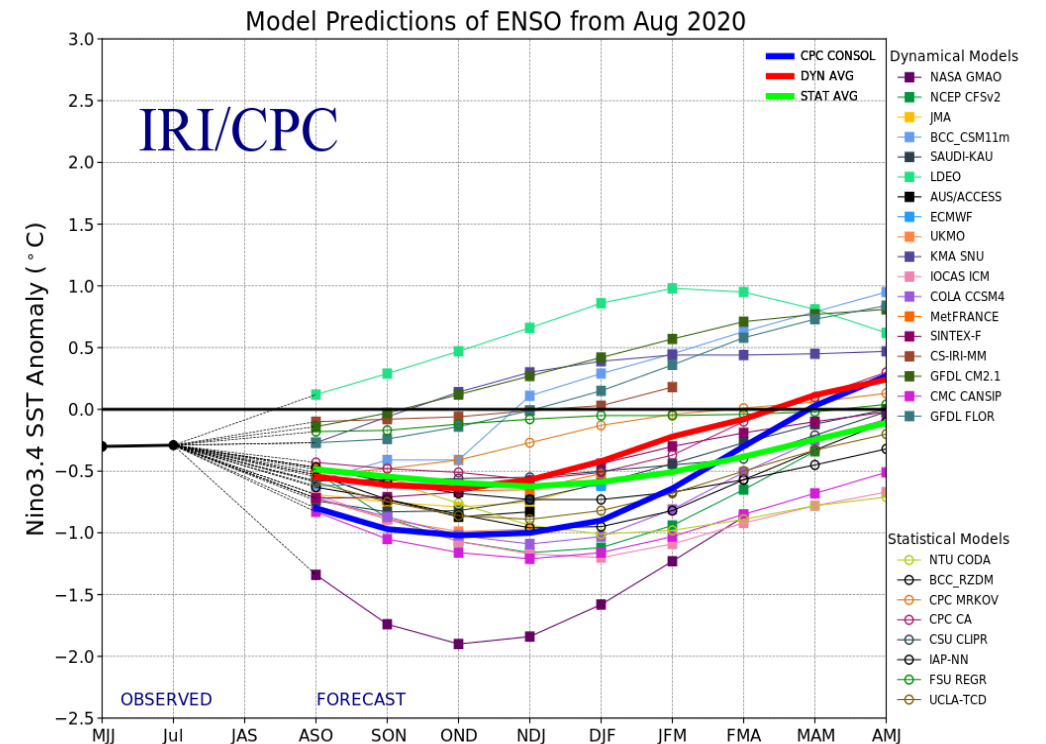
La Niña conditions are present and are likely to continue through the Northern Hemisphere winter (~75% chance).*

CPC/IRI Probabilistic Forecast



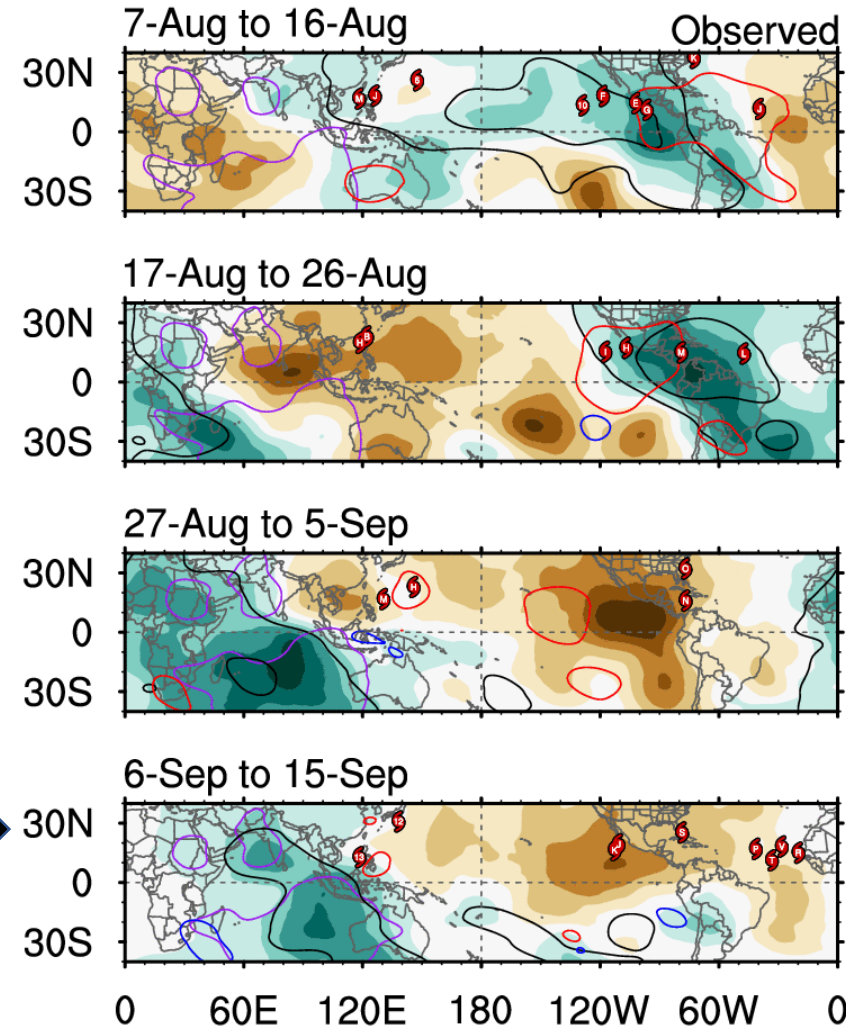
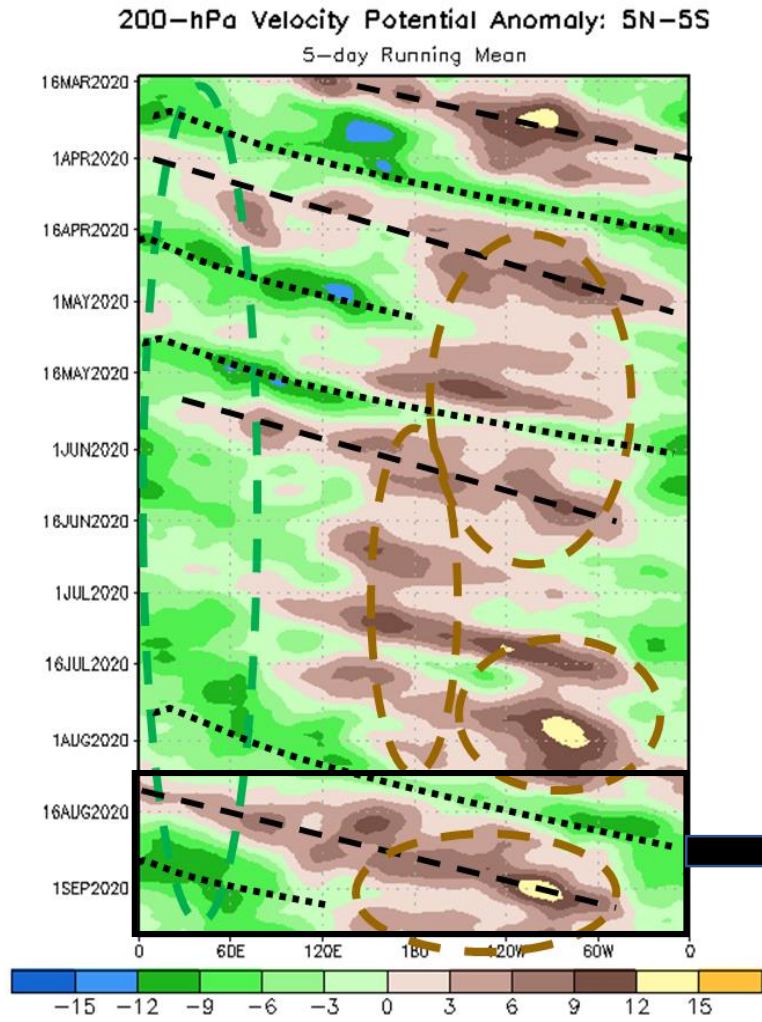
Source: CPC

IRI/CPC Dynamic Models



Source: IRI/CPC, 20 July

Madden-Julian Oscillation (MJO)

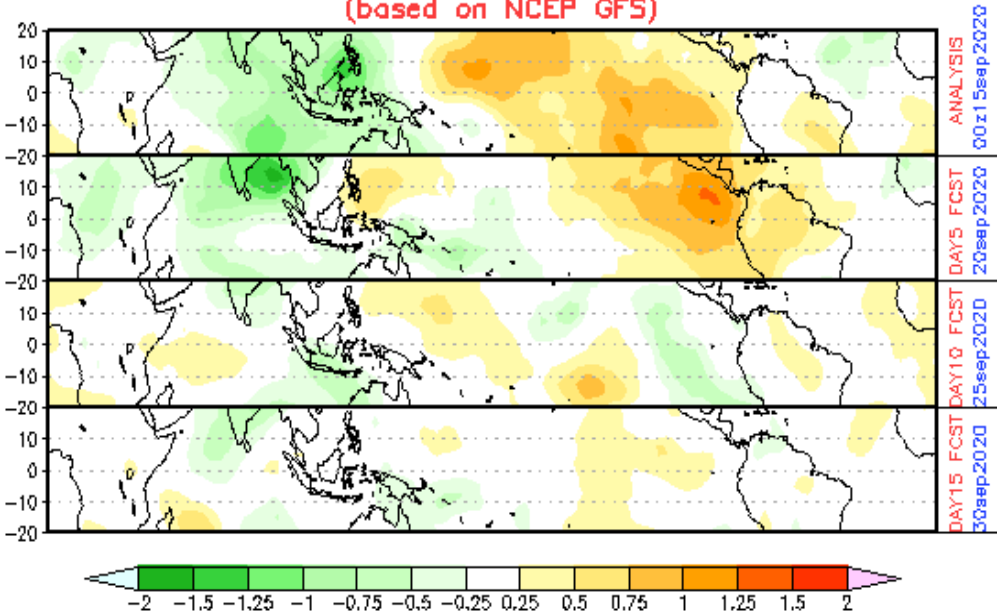


 Favors rain storms  Favors limited rainfall

MJO Forecasts

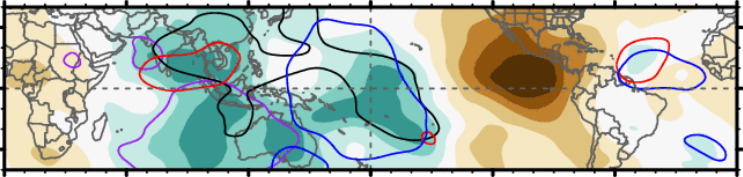
GFS

CHI 200 hPa 15-DAY forecast (00z15sep2020-30sep2020)
(based on NCEP GFS)

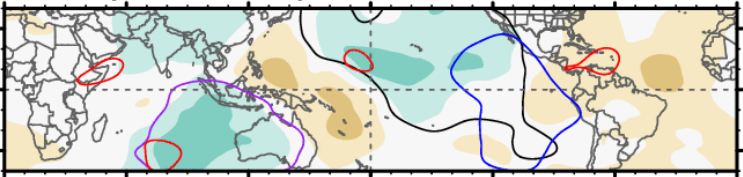


CFS

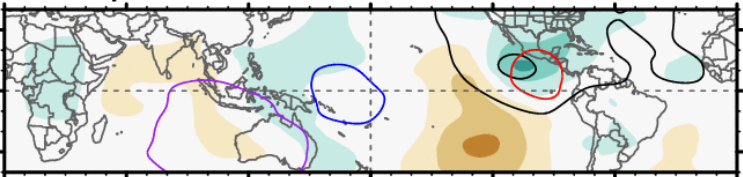
16-Sep to 22-Sep CFS Forecast



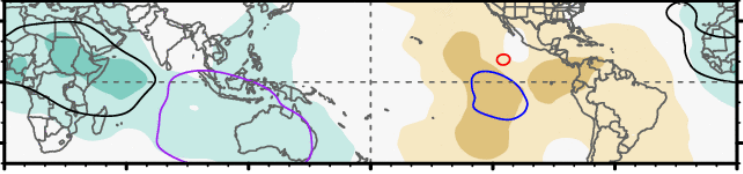
23-Sep to 29-Sep



30-Sep to 6-Oct



7-Oct to 13-Oct



0 60E 120E 180 120W 60W 0



ncics.org/mjo

-9 -7 -5 -3 -1 1 3 5 7 9 $\times 10^6 \text{ m}^2 \text{ s}^{-1}$

7-day CHI200 with CFS forecasts

Wed 2020-09-16 1018 UTC

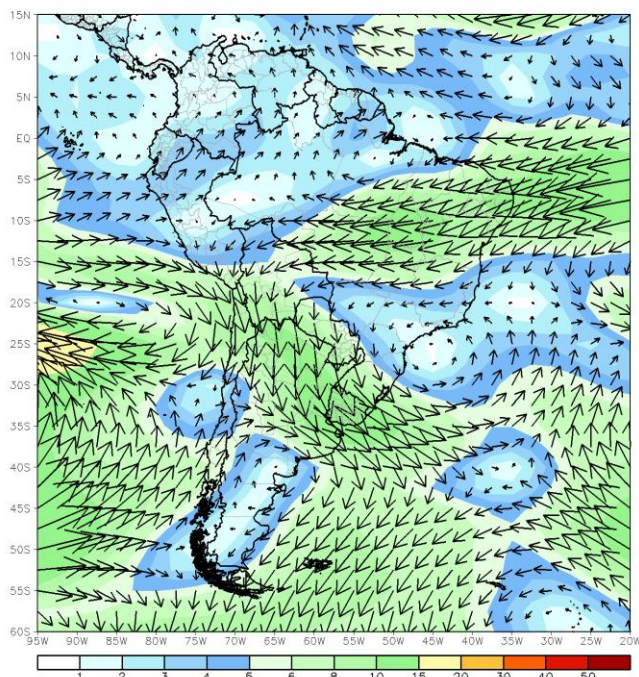
— MJO — Kelvin x2
— Low — ER

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

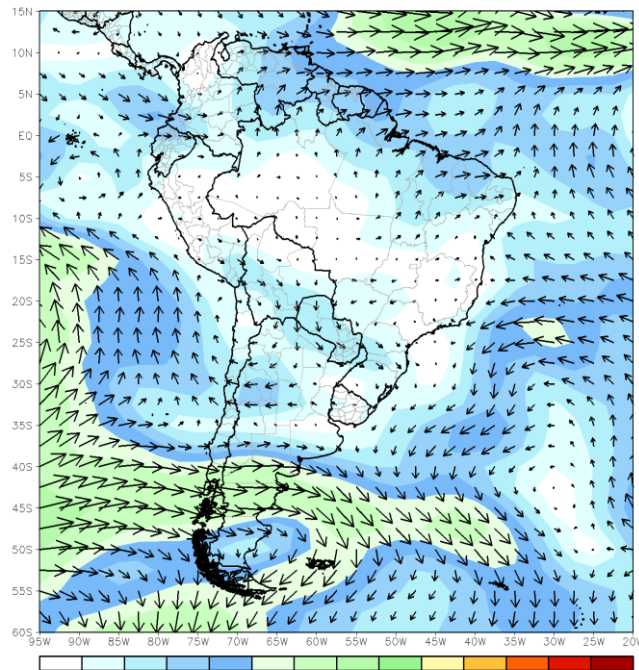
200 hPa Flow

CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 07Sep2020 - 13Sep2020



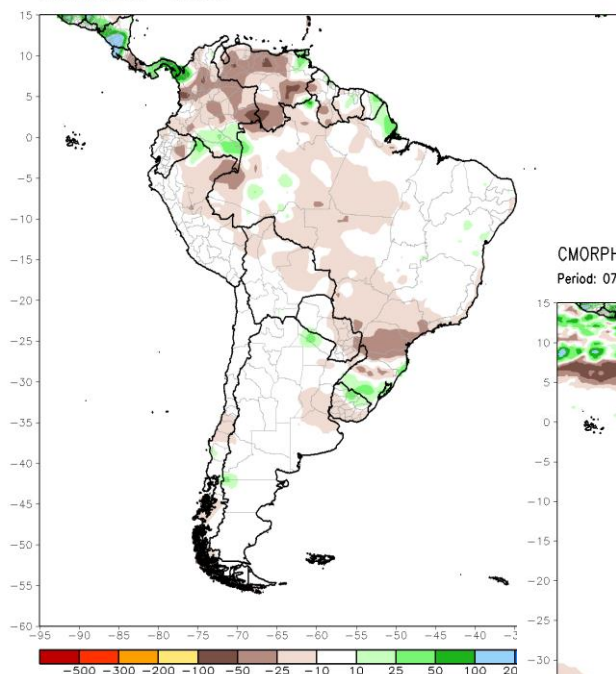
850 hPa Flow

CDAS 850mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 07Sep2020 - 13Sep2020

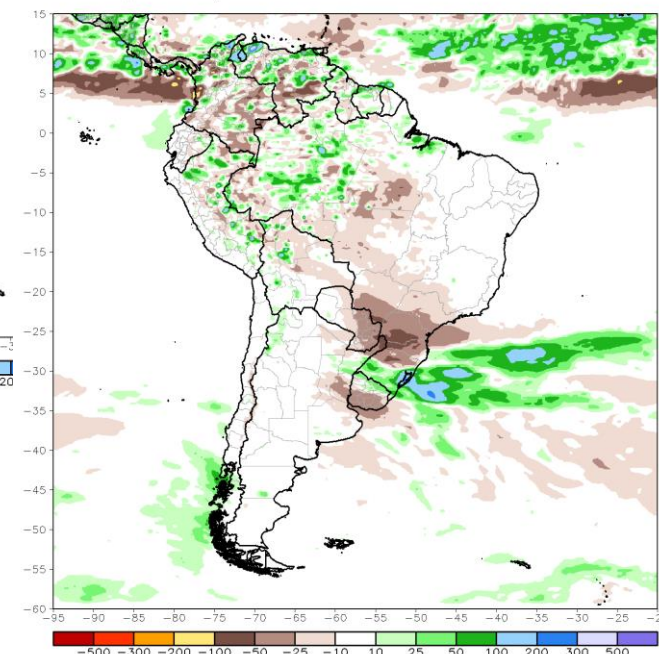


Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 08Sep2020 - 14Sep2020



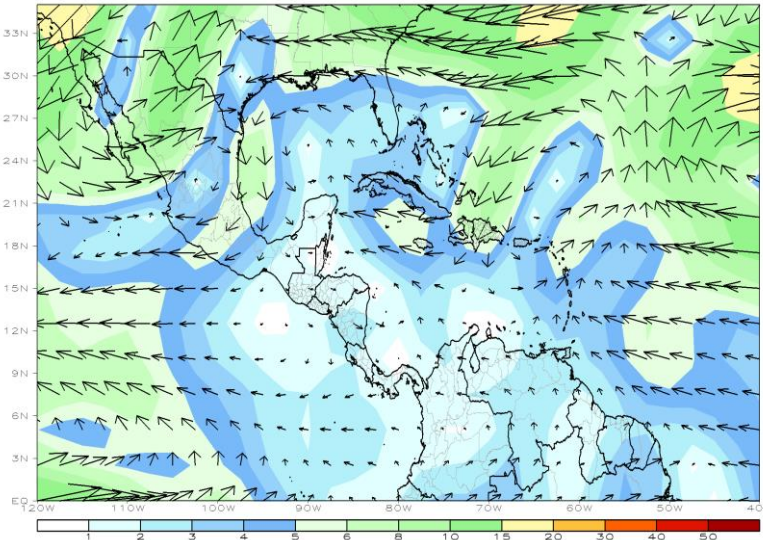
CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 07Sep2020 - 13Sep2020



Last Week's anomalies for the Tropical Americas

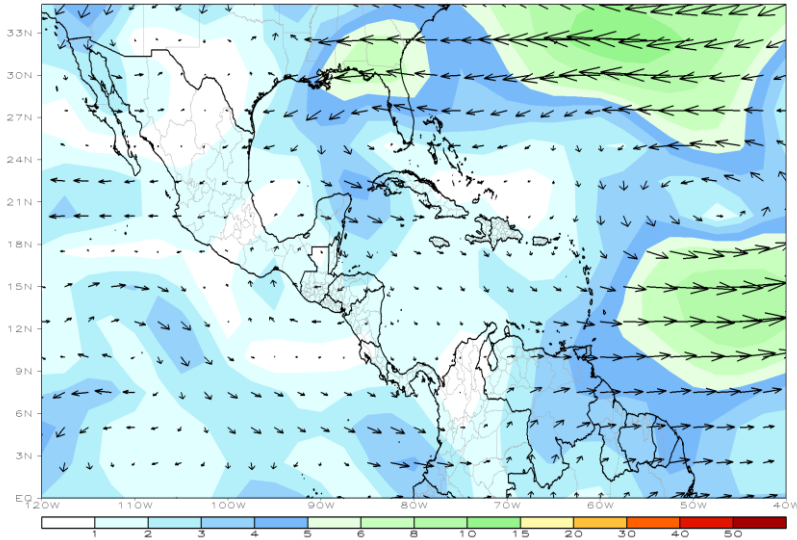
200 hPa Flow

CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 07Sep2020 - 13Sep2020



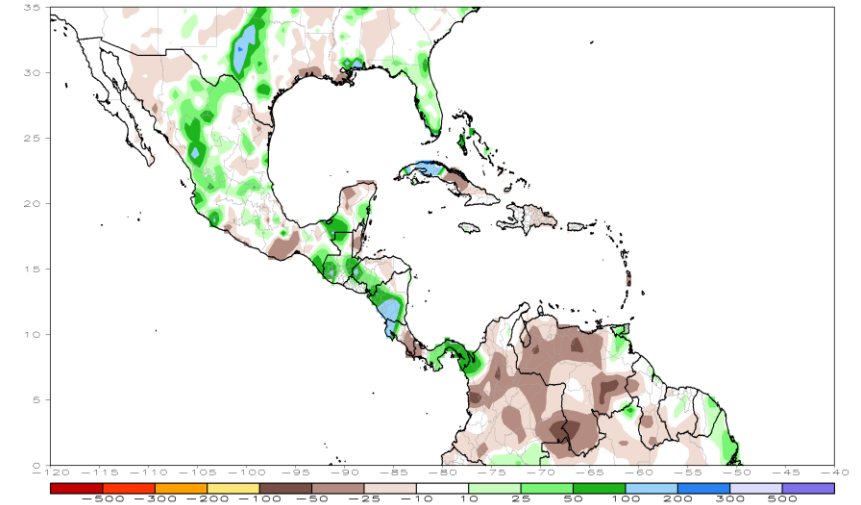
850 hPa Flow

CDAS 850mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 07Sep2020 - 13Sep2020

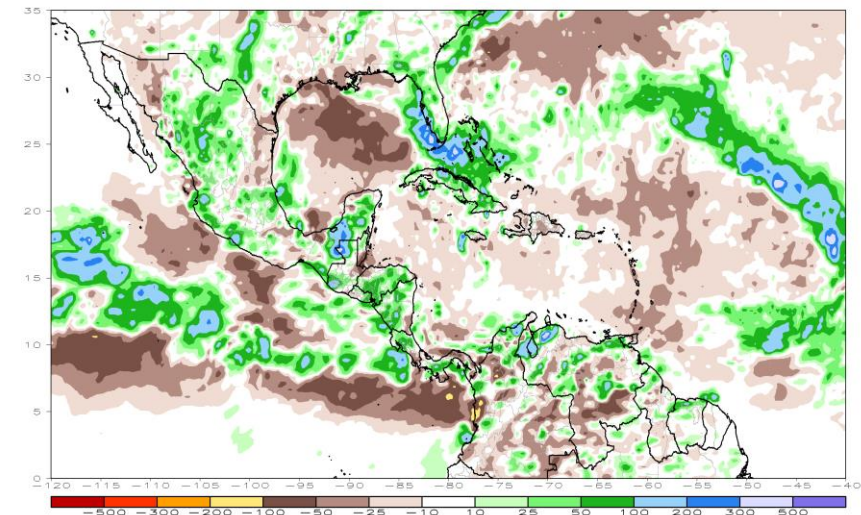


Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 08Sep2020 - 14Sep2020



CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 07Sep2020 - 13Sep2020



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

¡Gracias!

Thank you!