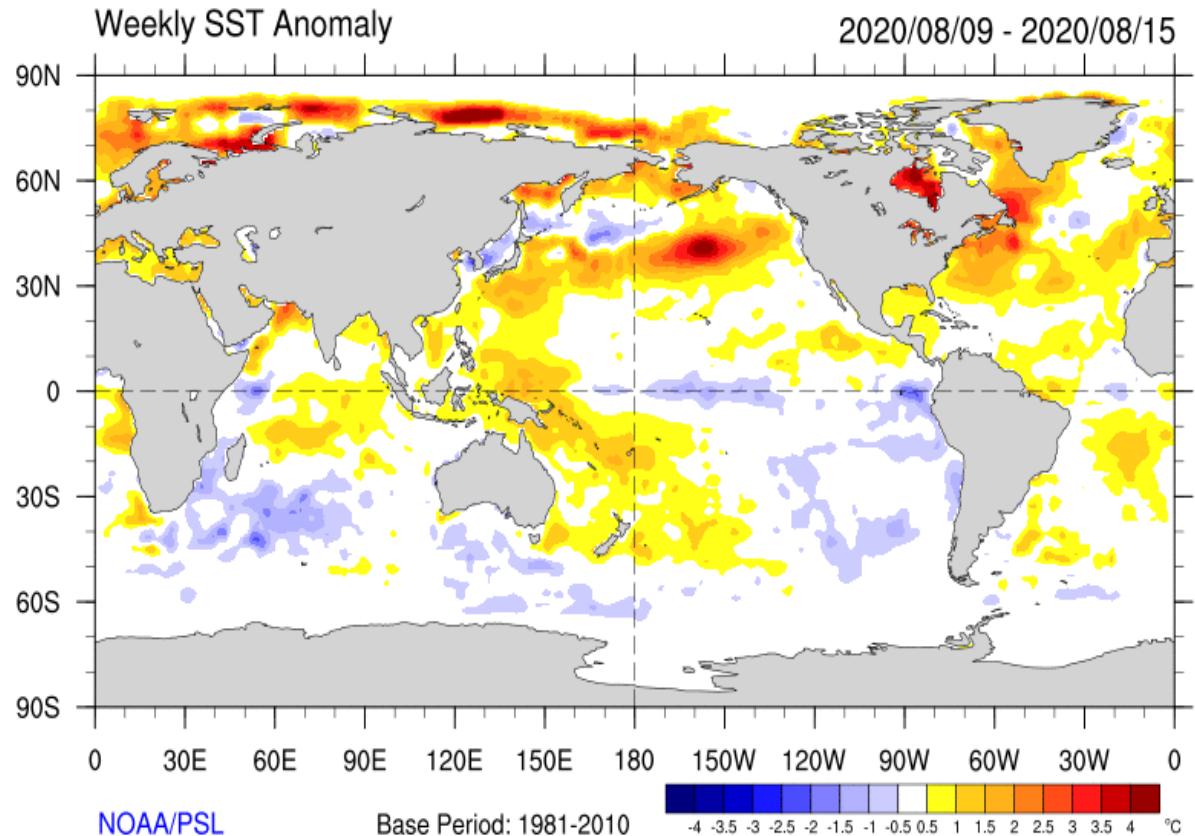
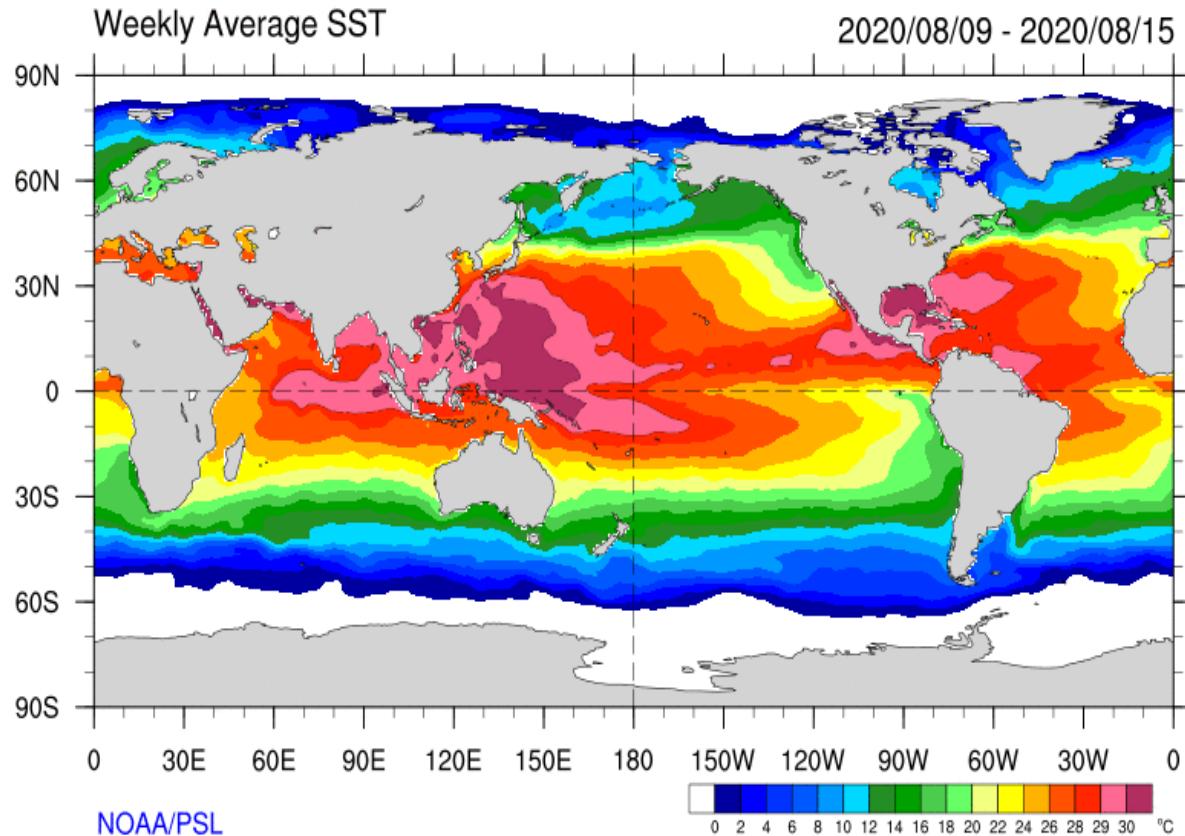




# Monthly Regional Focus Group Session

Wednesday 19 August 2020

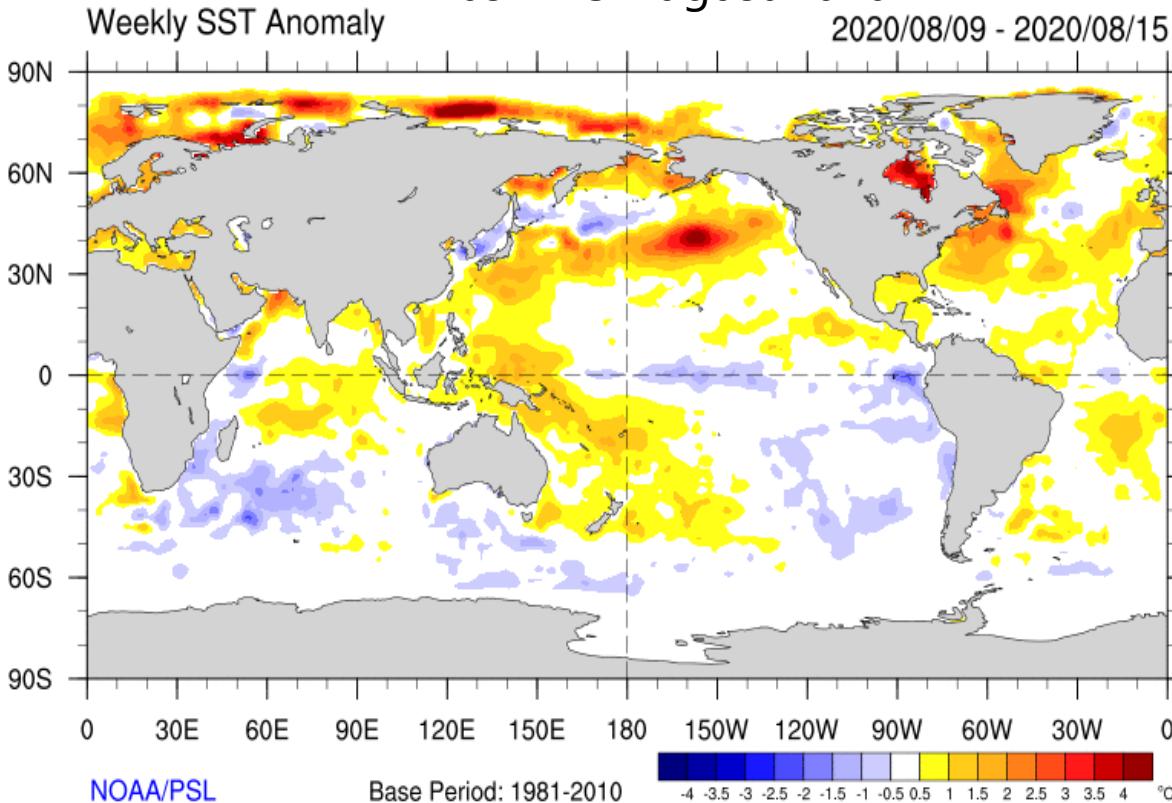
# Sea Surface Temperature Anomalies (Last Week)



# Deep Anomalies last longer:

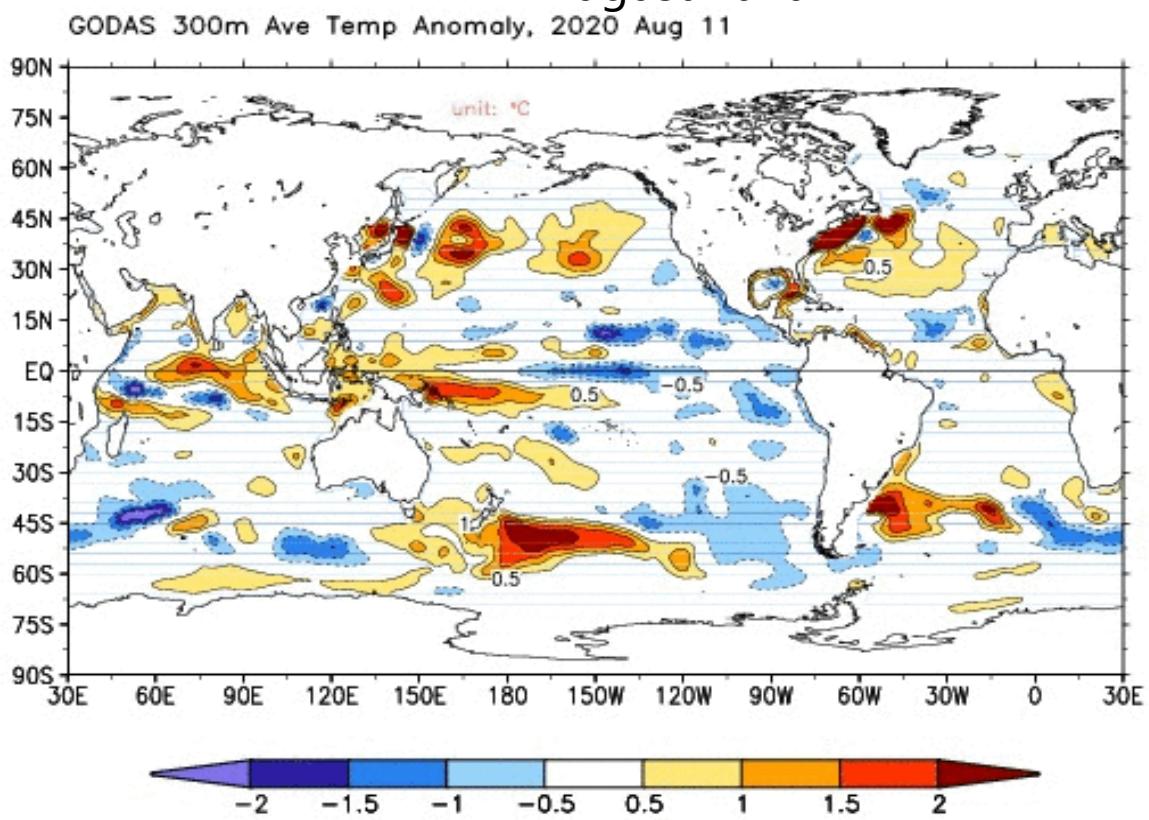
## Sea Surface Temperature Anomaly

09 – 15 August 2020



## Top 300-m Sea Temperature Anomaly

11 August 2020

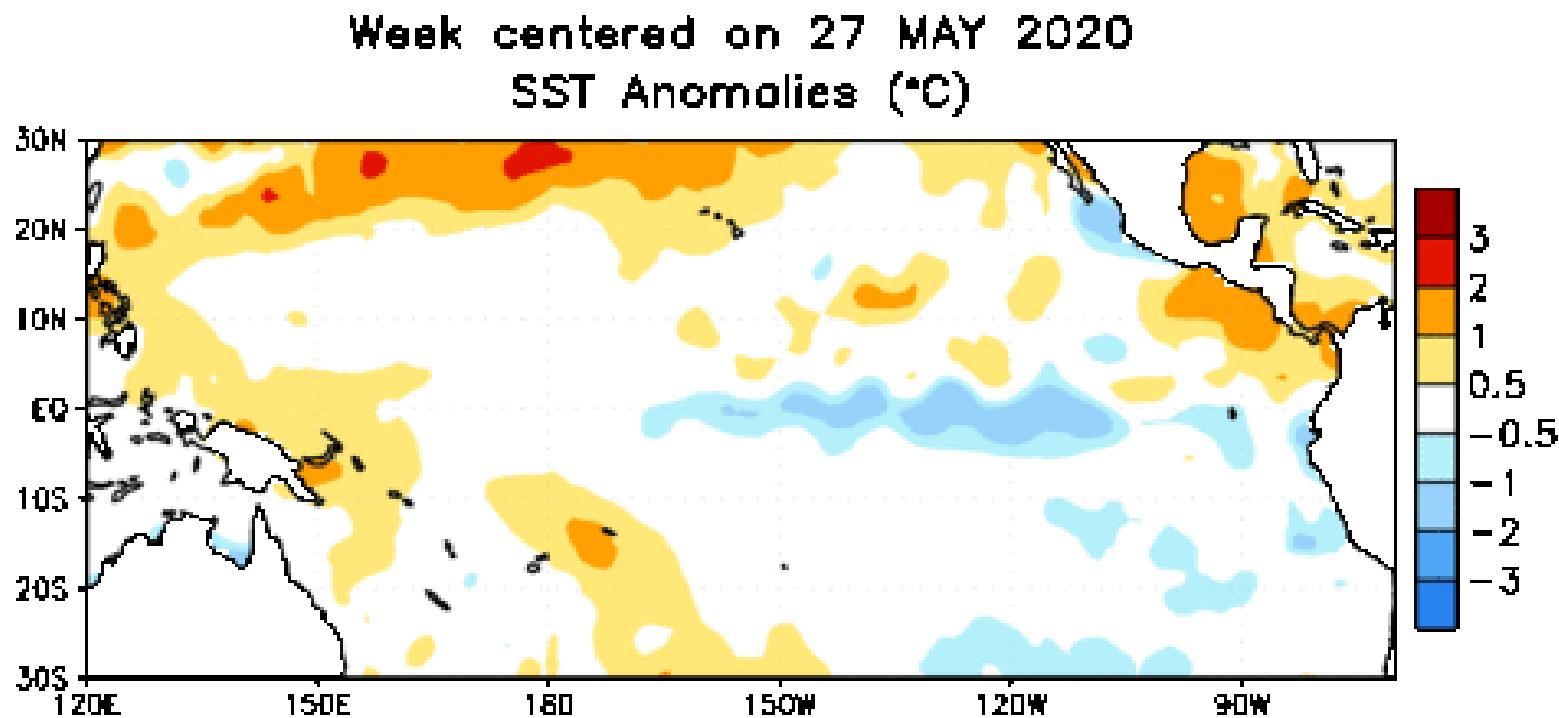


# ENSO Neutral

## La Niña Watch

- ENSO-neutral conditions are present.
- Equatorial SSTs are near-to-below average across the east-central and eastern Pacific Ocean. The tropical atmospheric circulation is consistent with ENSO-neutral.

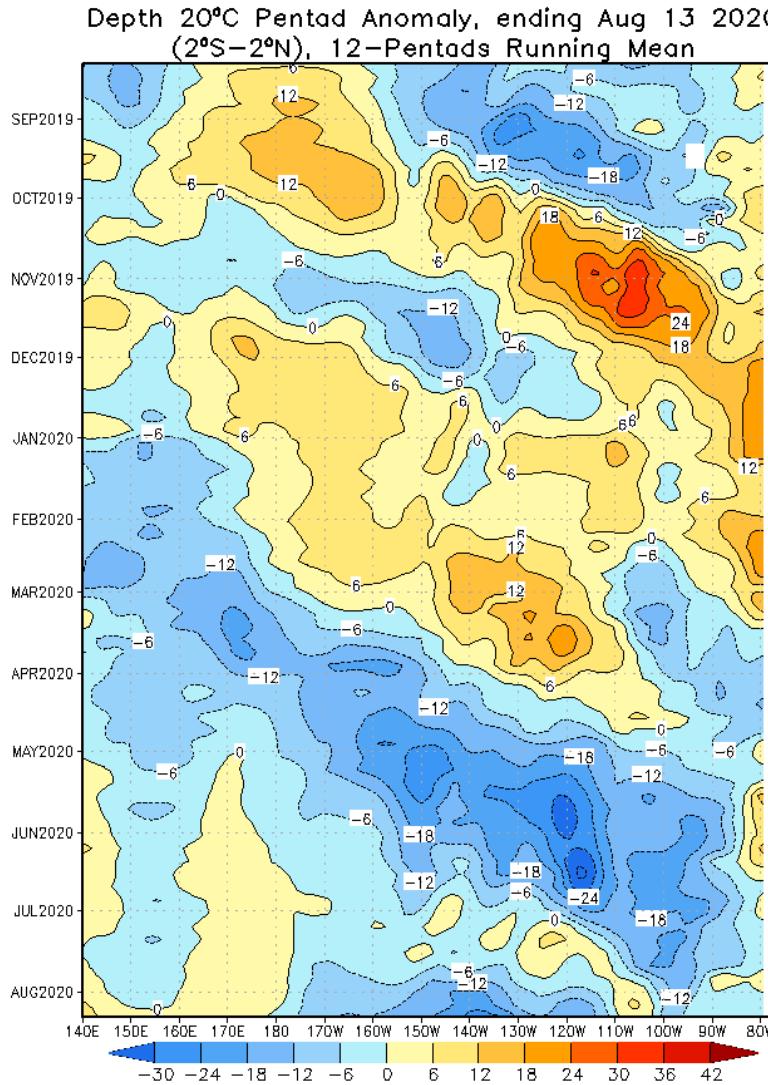
## Evolution



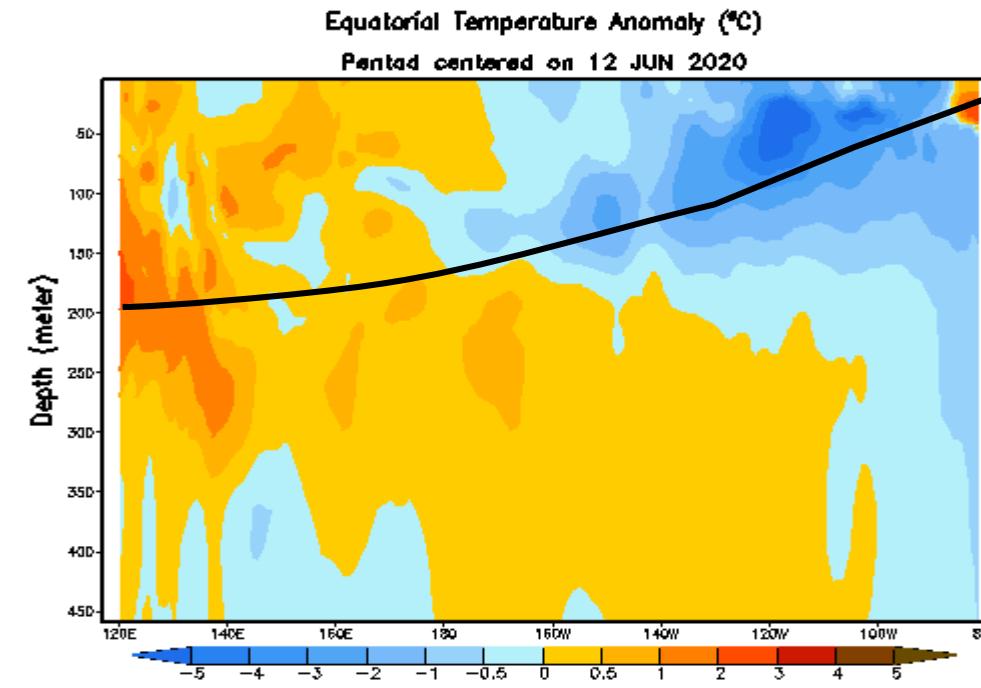
Source: CPC

# ENSO

## Hovmöller of thermocline depth anomalies



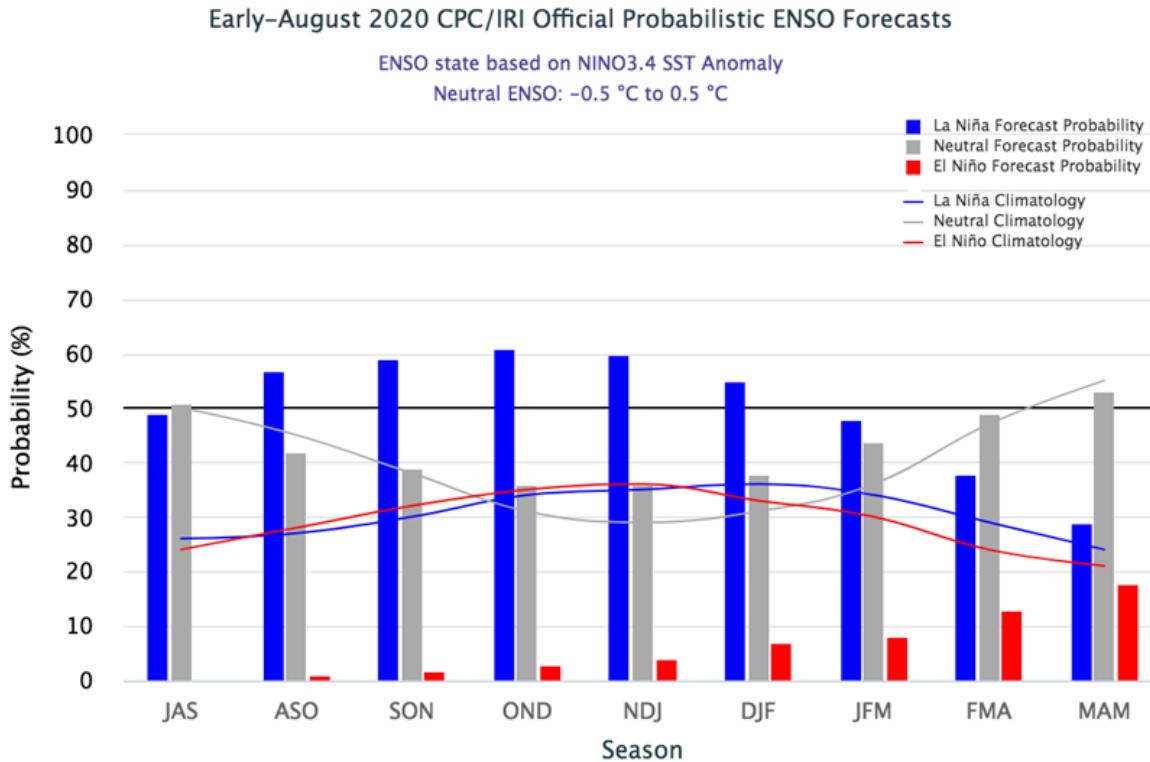
- Blues: Shallow thermocline = cooler
- Forecast: Another upwelling Kelvin wave might enhance surface cooling in September/October.



# ENSO Outlook

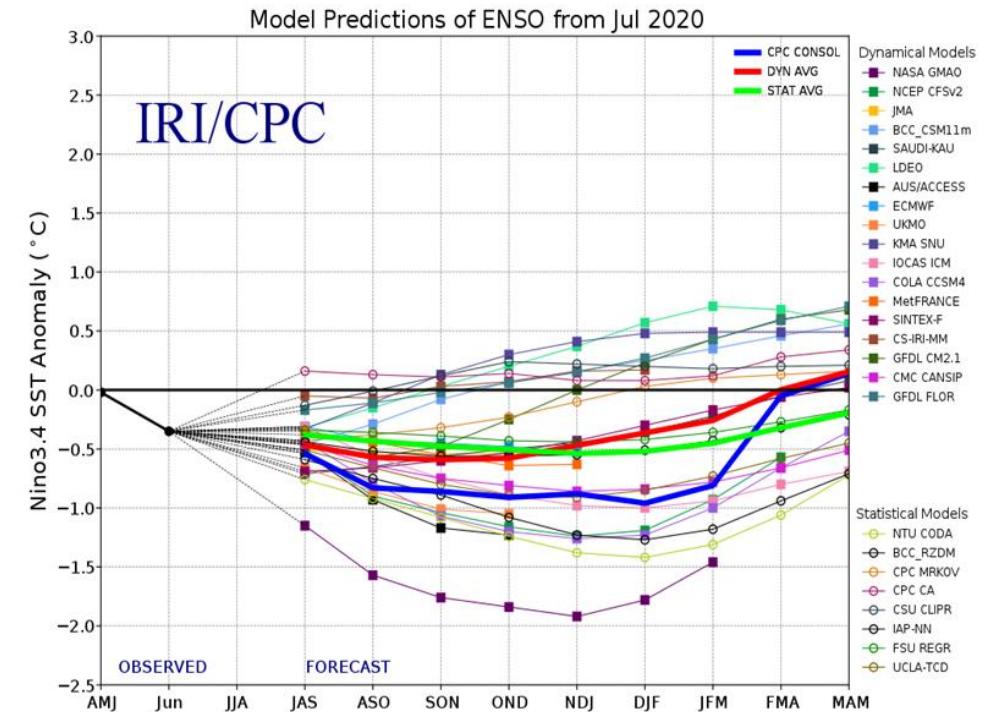
~60% chance of La Niña development during Northern Hemisphere fall 2020 and continuing through winter 2020-21 (~55% chance).\*

## CPC/IRI Probabilistic Forecast



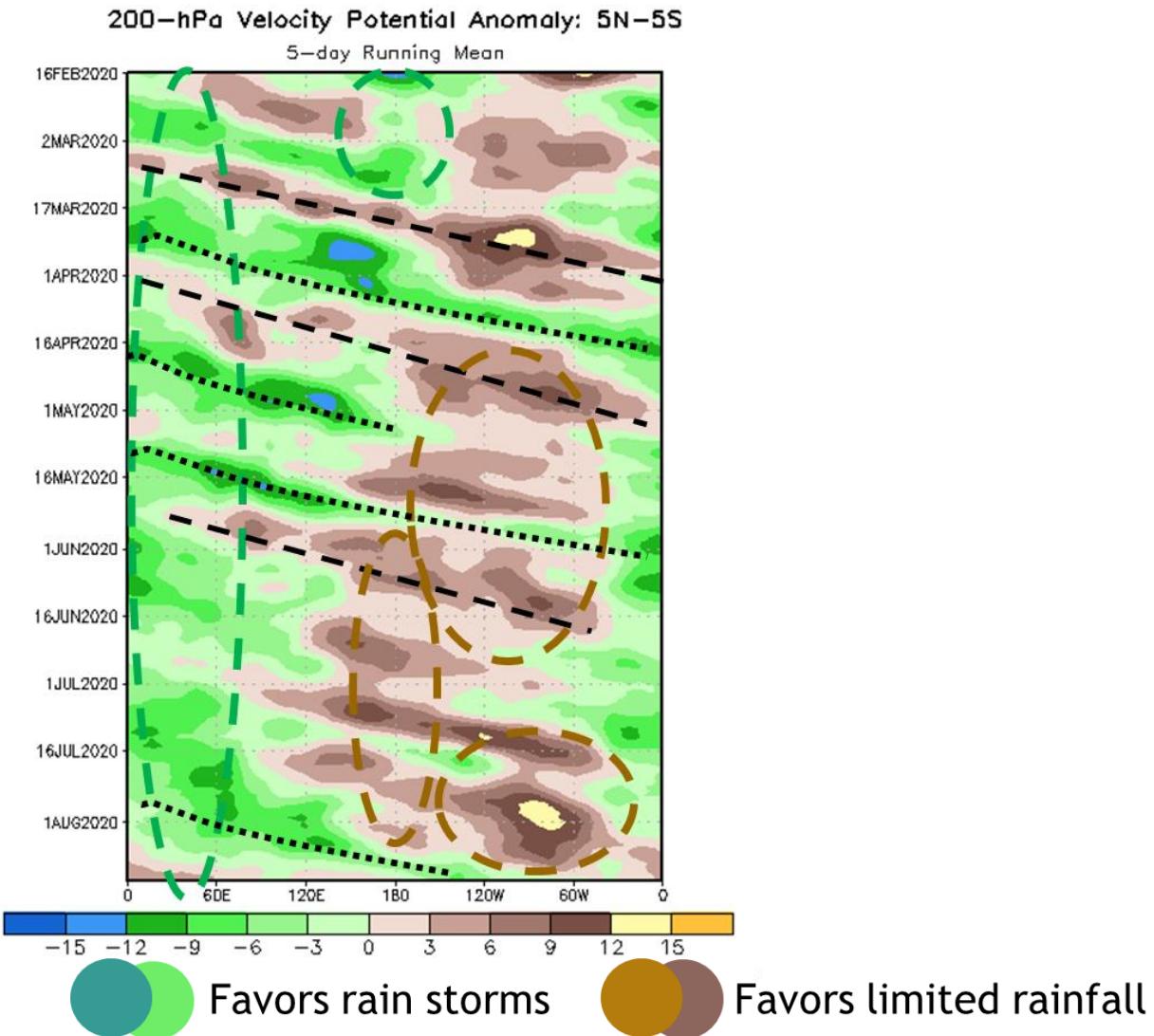
Source: CPC

## IRI/CPC Dynamic Models



Source: IRI/CPC, 20 July

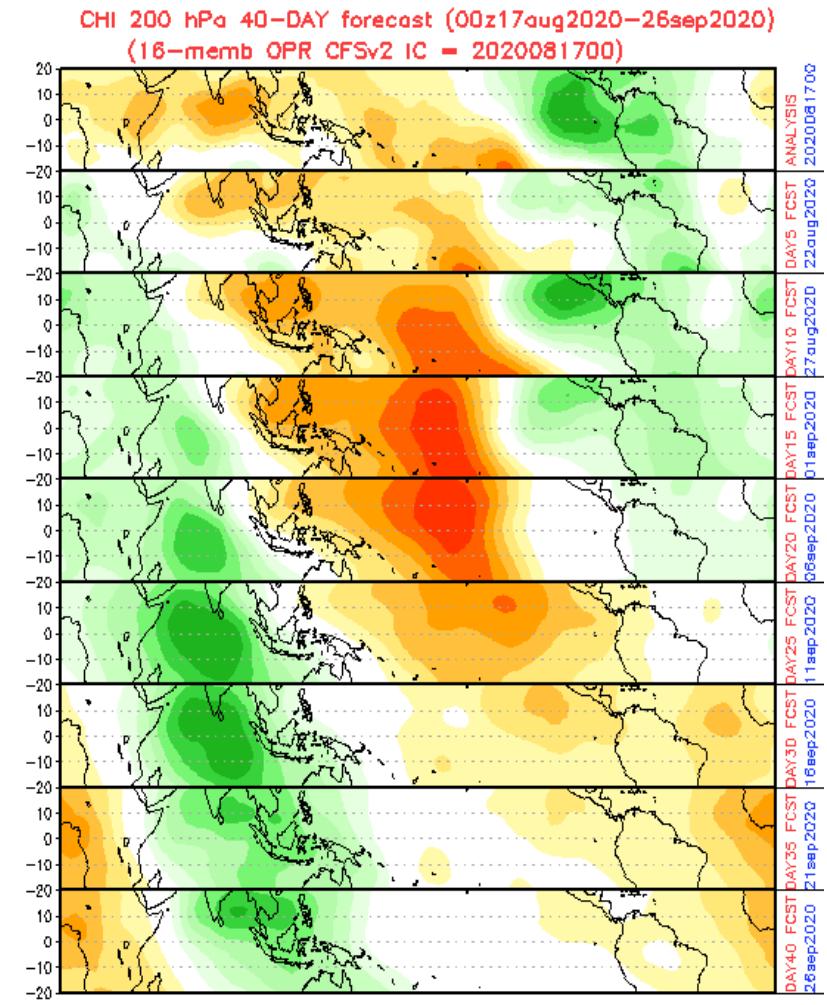
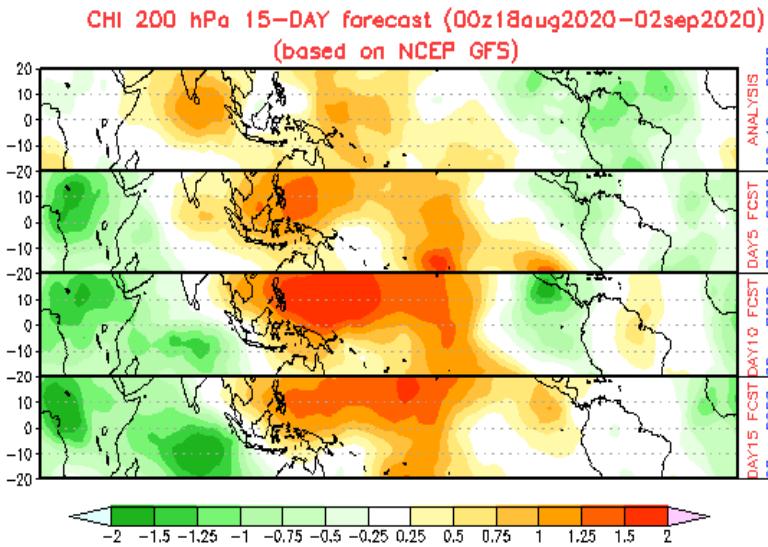
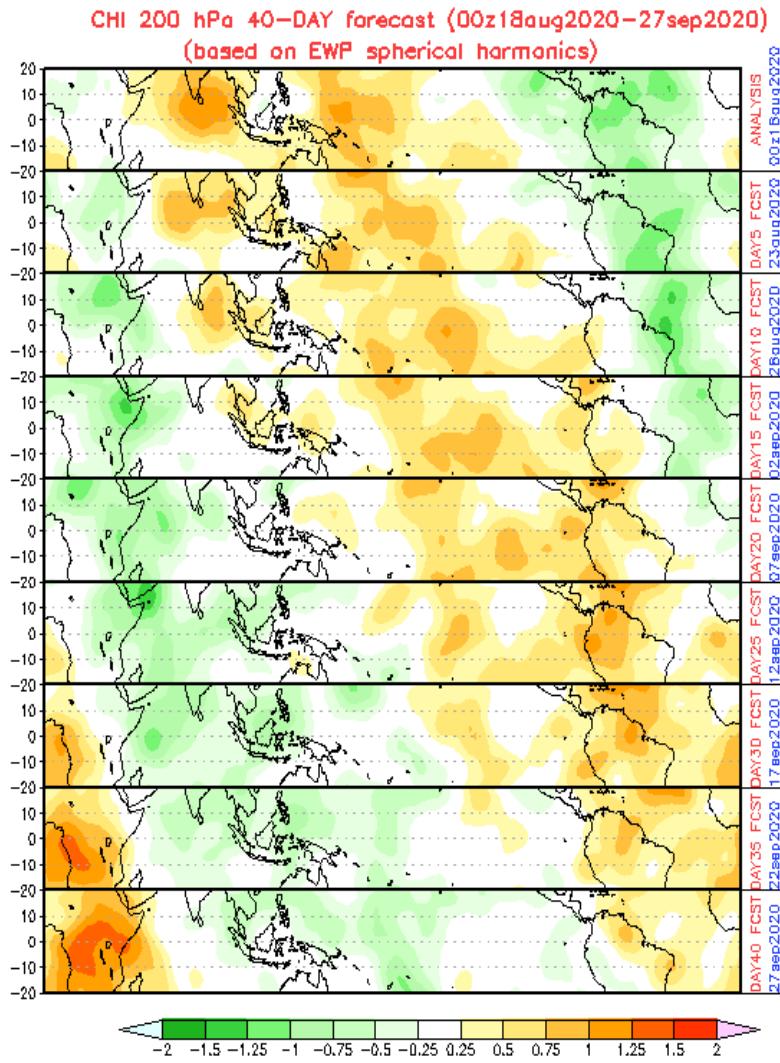
# Madden-Julian Oscillation (MJO)



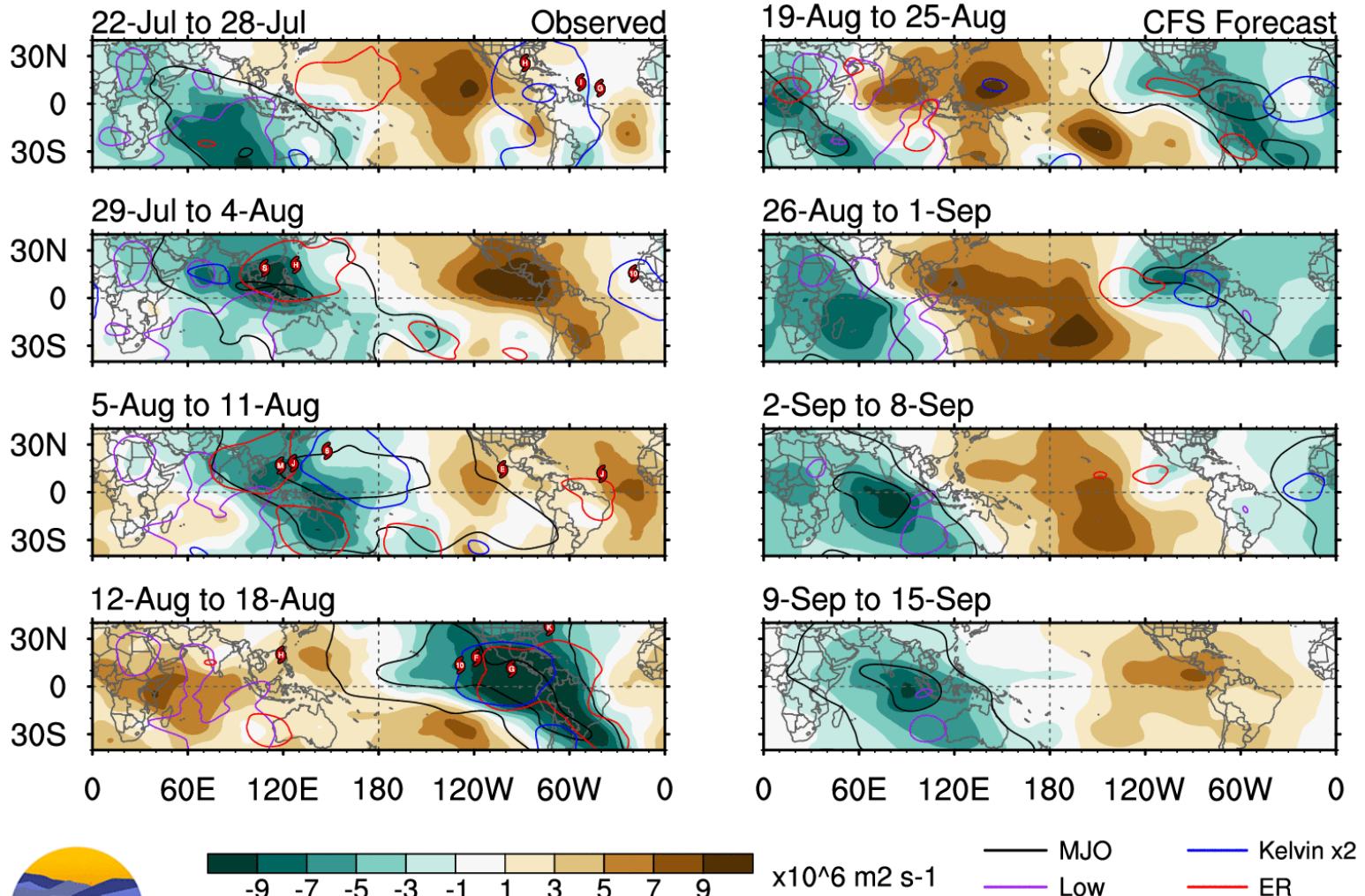
Source: CPC

Source: CPC

# MJO Forecasts



# MJO and Equatorial Tropospheric Waves CFS Forecasts



[ncics.org/mjo](http://ncics.org/mjo)

7-day CHI200 with CFS forecasts

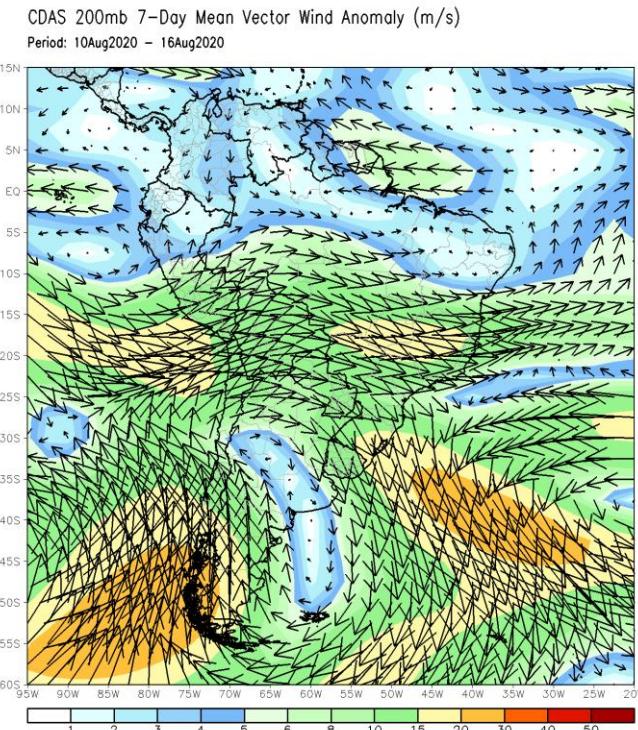
Wed 2020-08-19 1131 UTC

— MJO      — Kelvin x2  
— Low      — ER

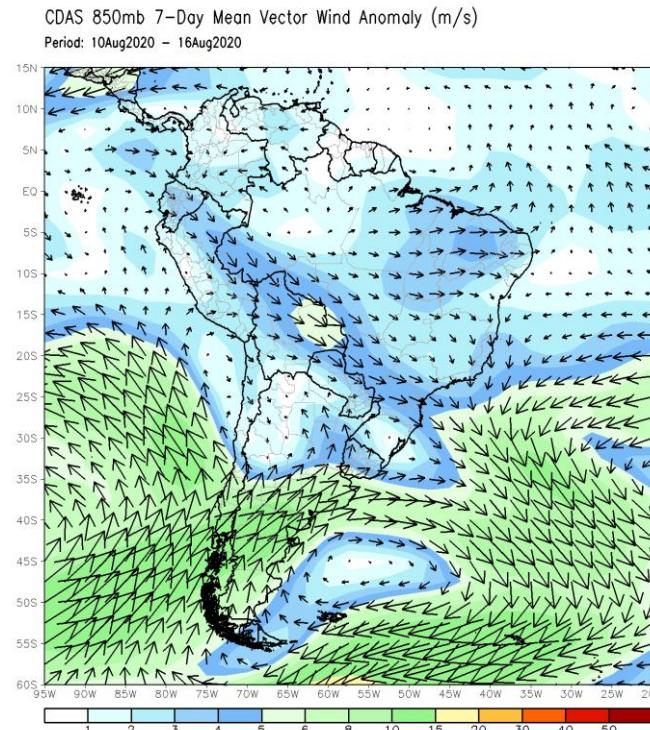
Contours at  $-2, -6 \times 10^6 \text{ m}^2 \text{ s}^{-1}$   
Carl Schreck  
[carl\\_schreck@ncsu.edu](mailto:carl_schreck@ncsu.edu)

# Last week's anomalies for South America

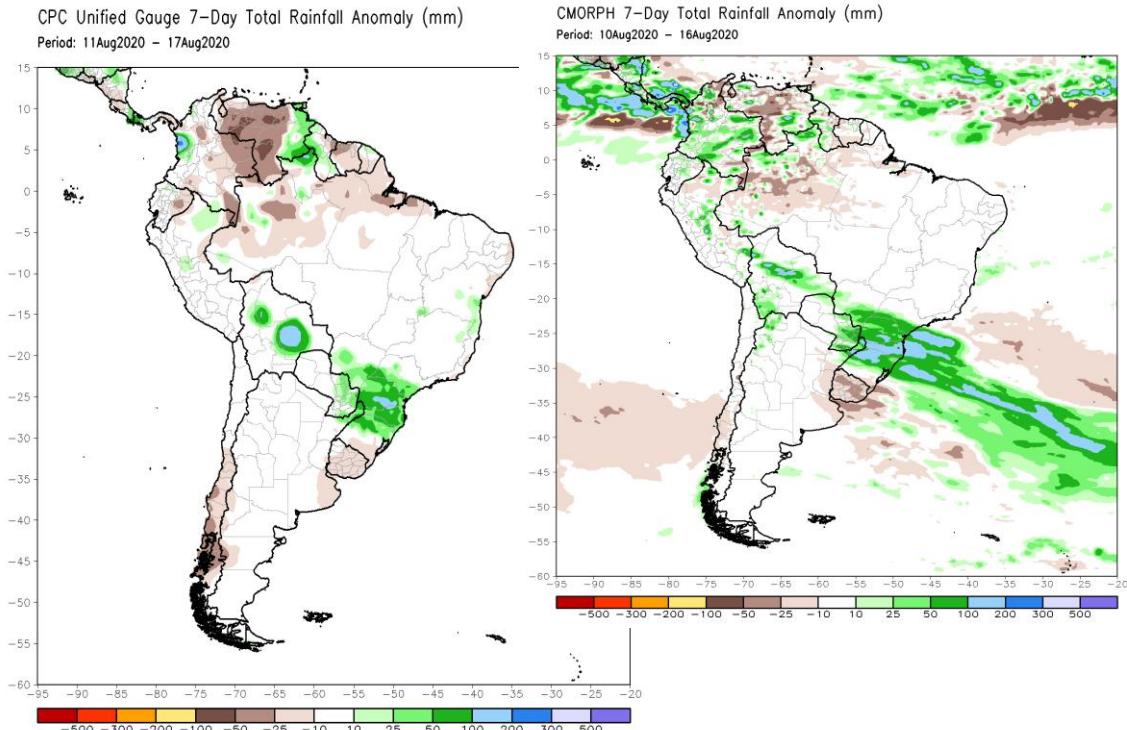
## 200 hPa Flow



## 850 hPa Flow



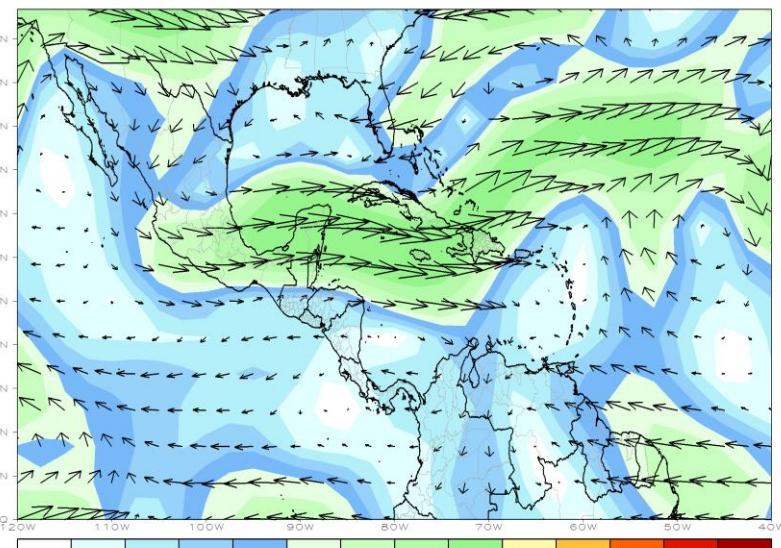
## Rainfall



# Last Week's anomalies for the Tropical Americas

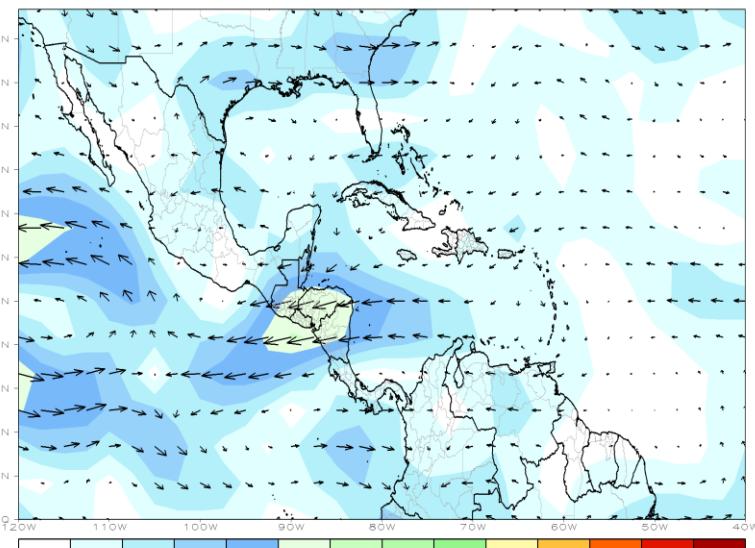
## 200 hPa Flow

CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)  
Period: 10Aug2020 – 16Aug2020



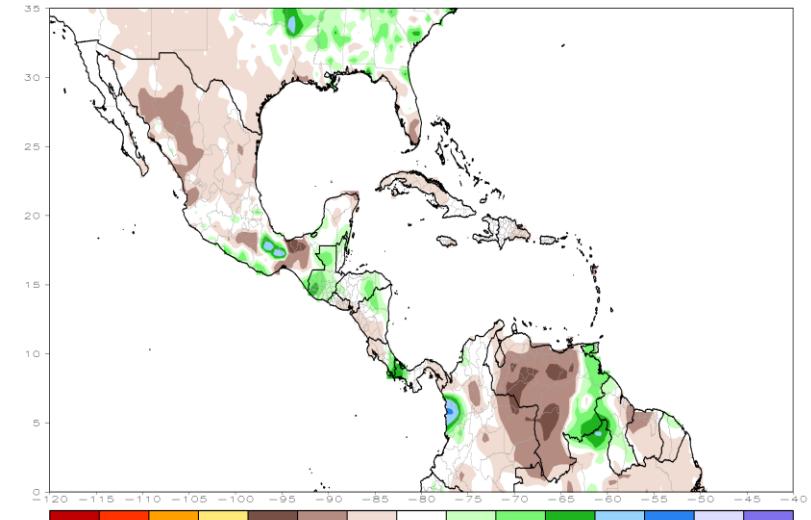
## 850 hPa Flow

CDAS 850mb 7-Day Mean Vector Wind Anomaly (m/s)  
Period: 10Aug2020 – 16Aug2020

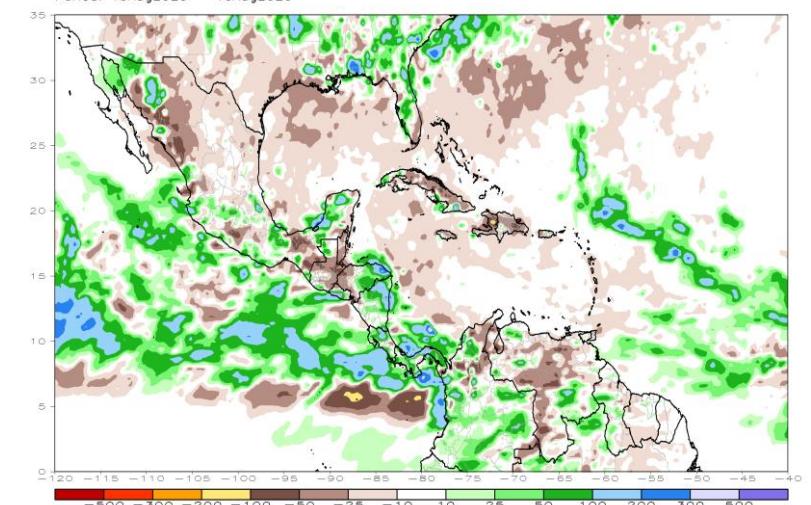


## Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)  
Period: 11Aug2020 – 17Aug2020



CMORPH 7-Day Total Rainfall Anomaly (mm)  
Period: 10Aug2020 – 16Aug2020



¡Gracias!

Thank you!