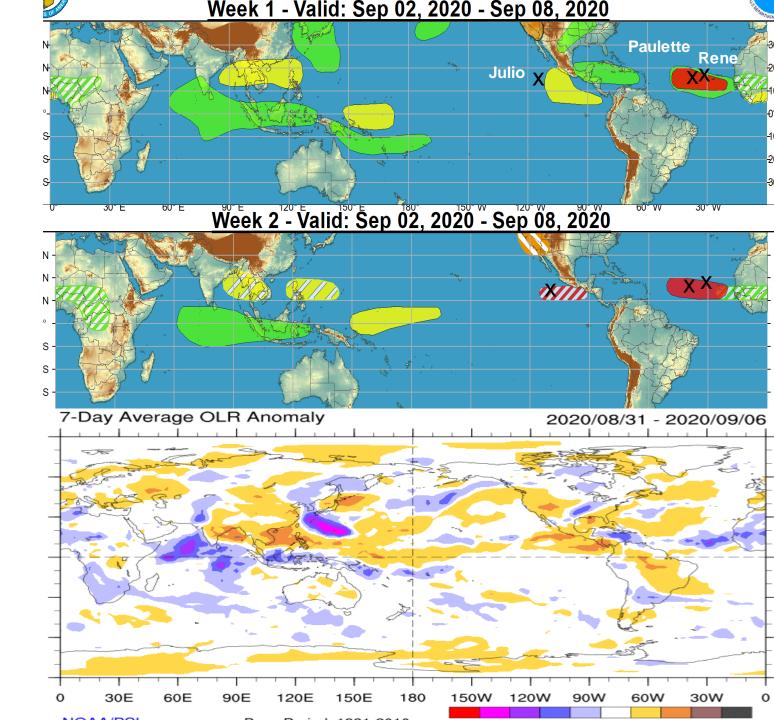
Global Tropics Hazards And Benefits Outlook 9/08/2020

Brad Pugh

Outline

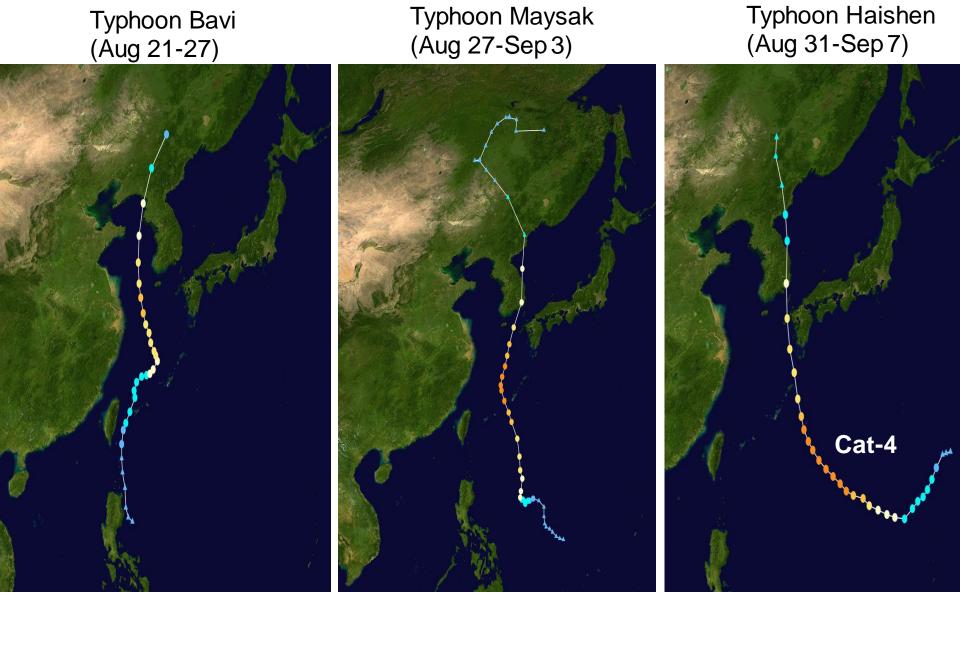
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

Outlook Review



Cool shading More clouds/rain

Warm shading Less clouds/rain



Synopsis of Climate Modes

ENSO: (August 13, 2020 Update)

ENSO Alert System Status: <u>La Niña Watch</u>

(next update September 10)

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

MJO and other subseasonal tropical variability:

- The MJO weakened during the first week of September.
- Dynamical models depict that the MJO remains weaker compared to August.
- Enhanced waves emerging from Africa, the low-frequency base state, and climatology support an active Atlantic basin into the latter half of September.



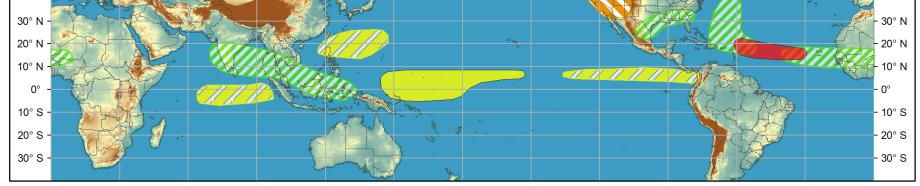
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Sep 16, 2020 - Sep 22, 2020



Produced: 09/08/2020

Forecaster: Pugh

Tropical Cyclone Formation Development of a tropical cyclone (tropical depression - TD, or greater strength).

Confidence High Moderate

Above-normal temperatures 7-day mean temperatures in the upper third of the historical range.

Below-normal temperatures 7-day mean temperatures in the lower third of the historical range.

Product is updated once per week, except from 6/1 - 11/30 for the region from 120E to 0, 0 to 40N. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.











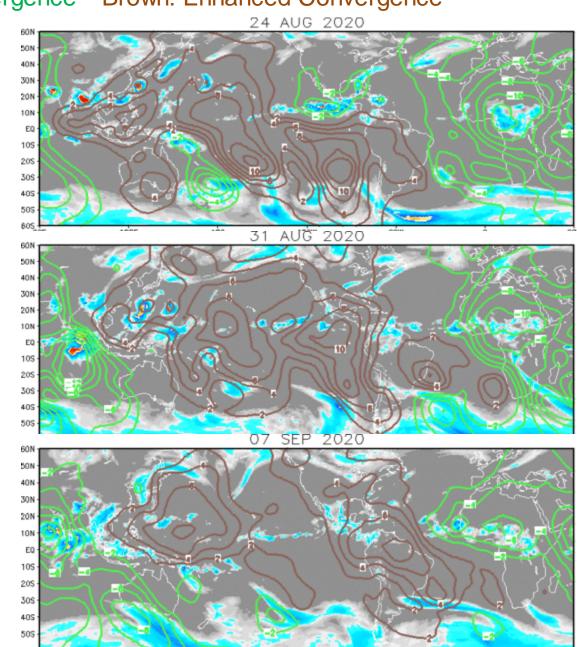


IR Satellite & 200-hpa Velocity Potential Anomalies

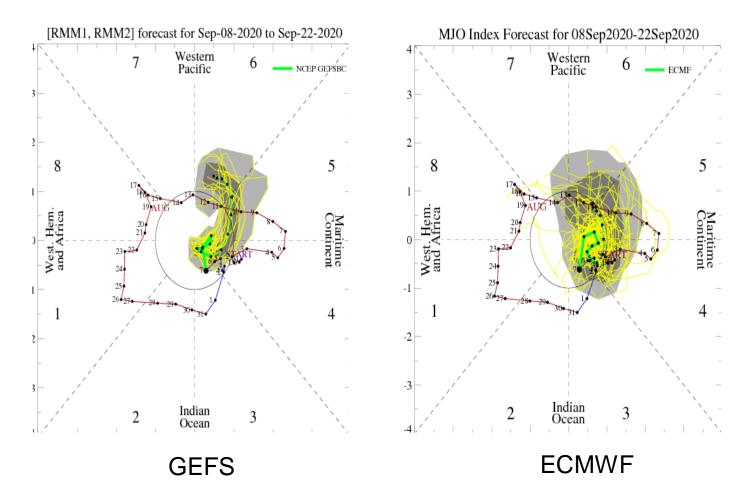
Green: Enhanced Divergence Brown: Enhanced Convergence

Coherent Wave-1 spatial pattern

More stationary pattern as the MJO weakens

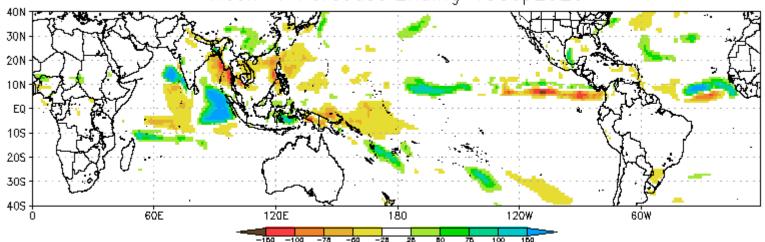


MJO Observation/Forecast

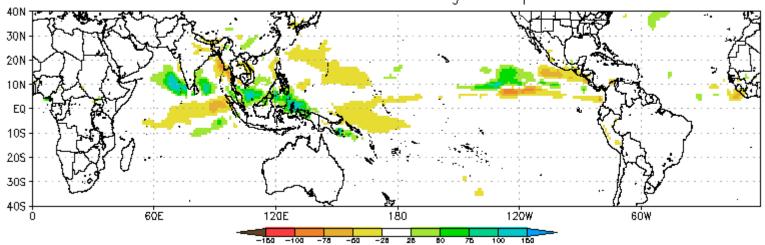


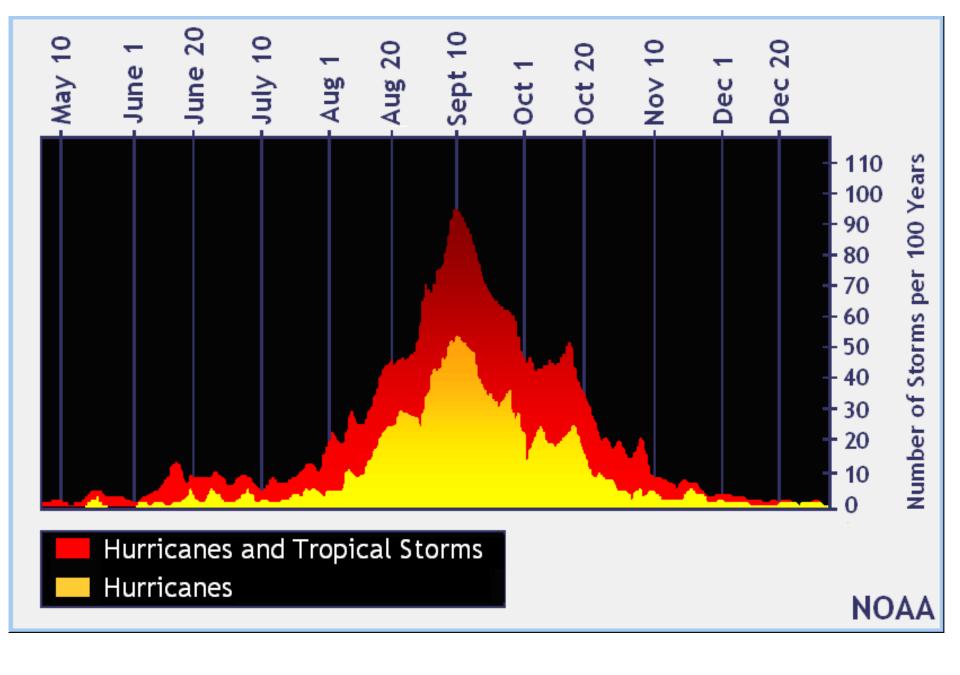
Note the amplitude of the index outside the unit circle during August Relatively weak signal during week-1

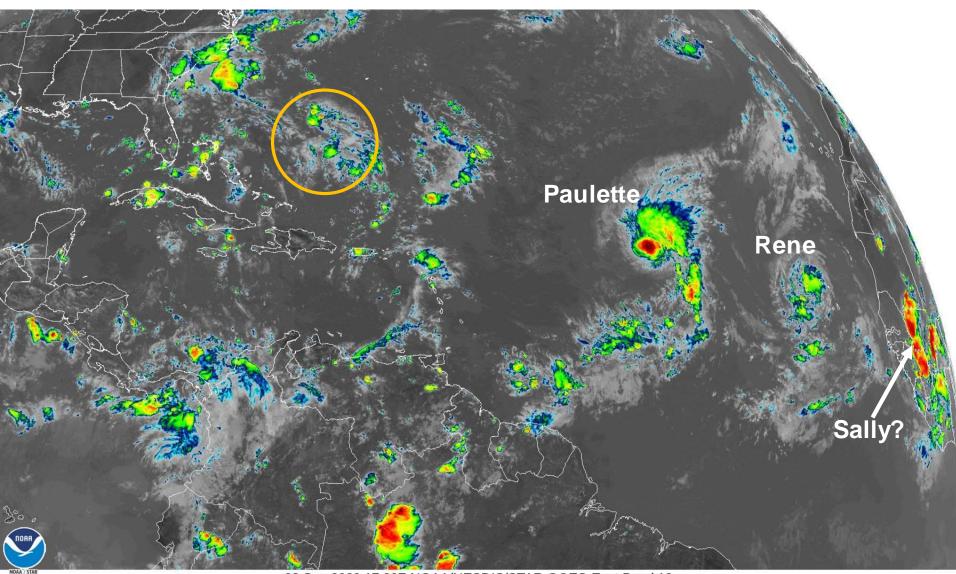
CFS Precipitation Anomalies (mm) Issued 07Sep2020 Week-1 Forecast Ending 15Sep2020



CFS Precipitation Anomalies (mm) Issued 07Sep2020 Week-2 Forecast Ending 22Sep2020







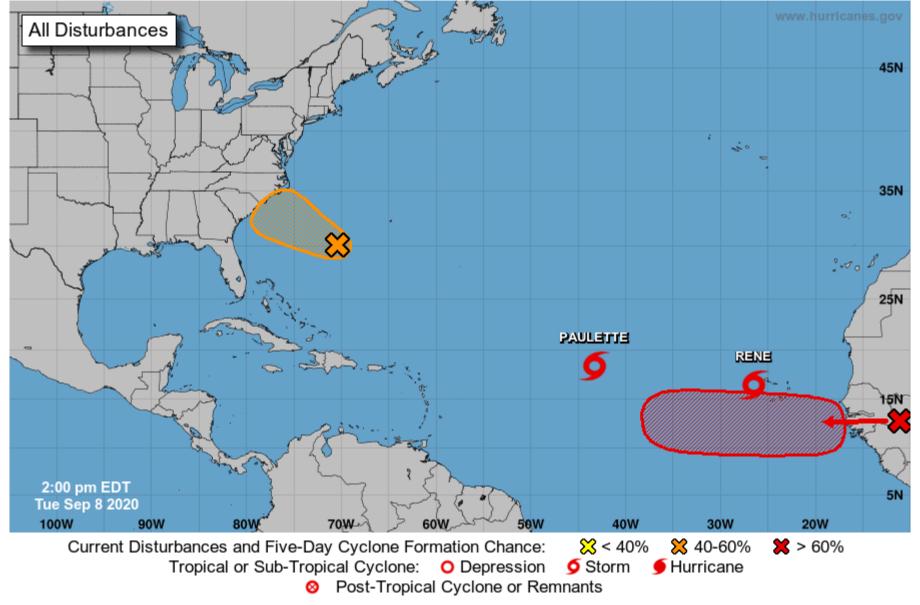
08 Sep 2020 17:30Z NOAA/NESDIS/STAR GOES-East Band 13

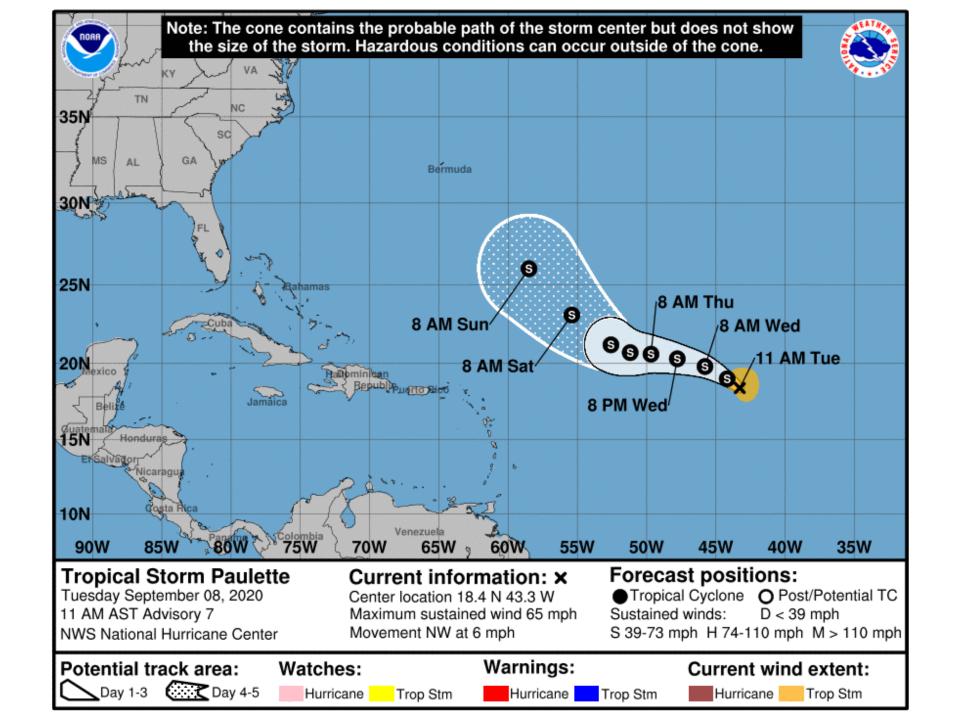


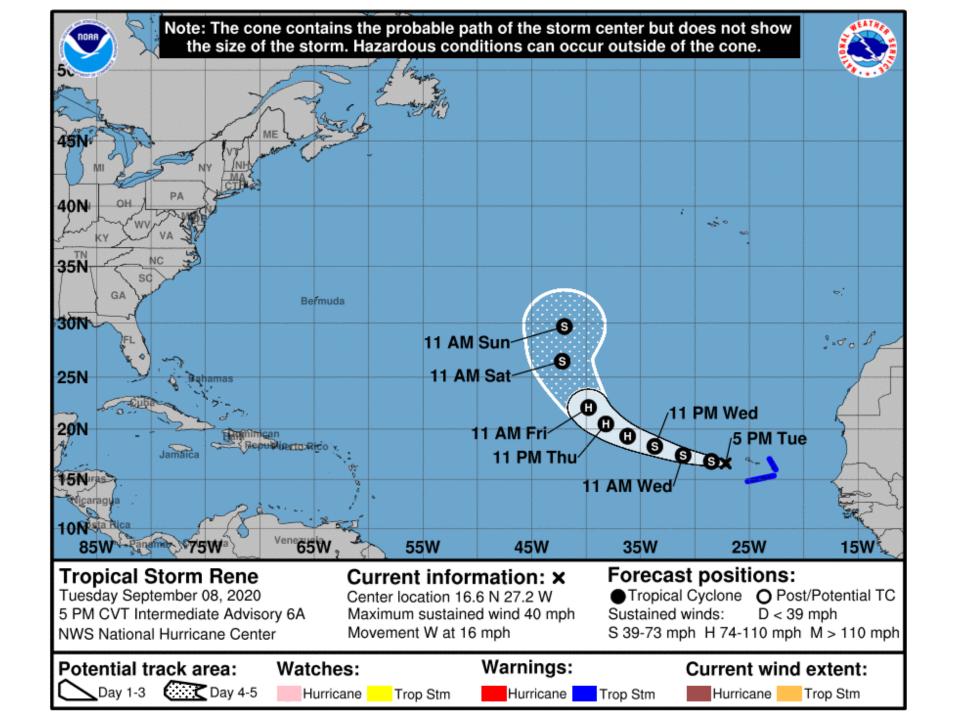
Five-Day Graphical Tropical Weather Outlook

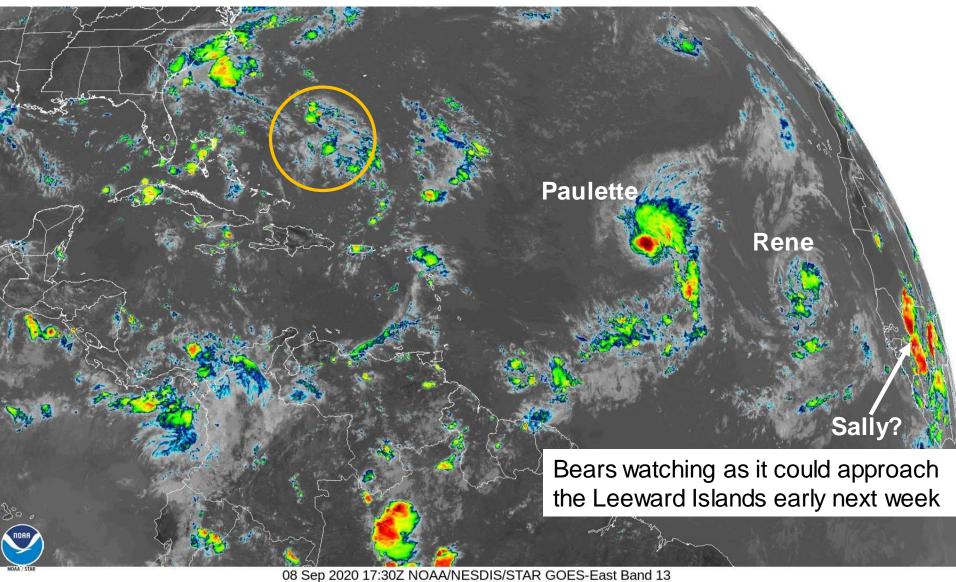


National Hurricane Center Miami, Florida

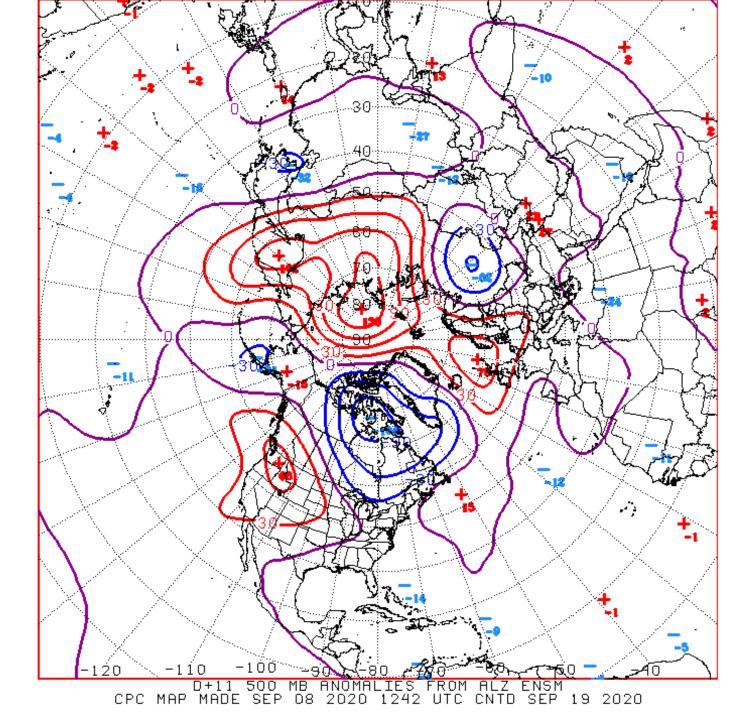




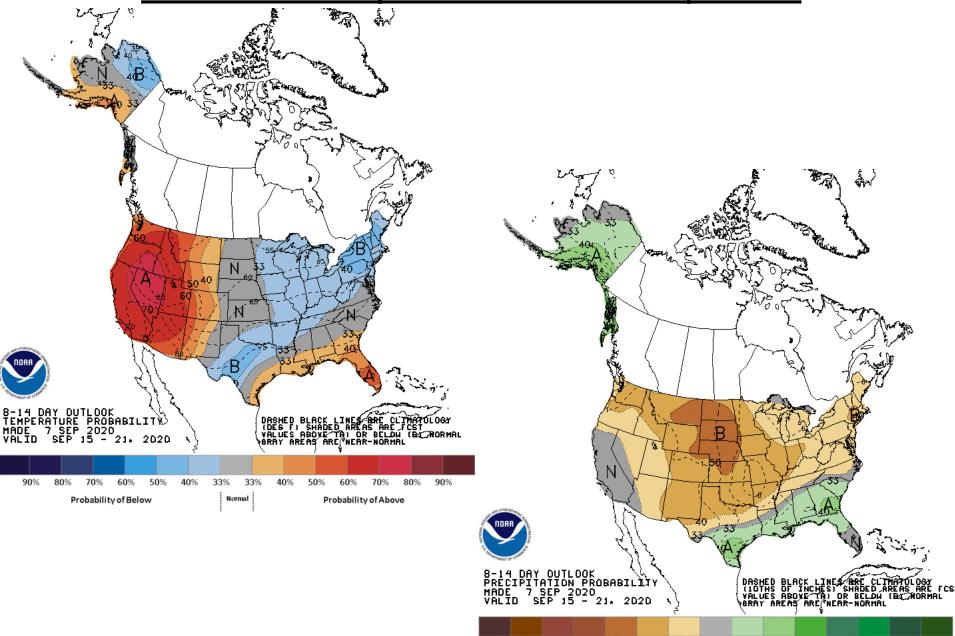




Connections to U.S. Impacts



Week 2 - Temperature and Precipitation



70%

Probability of Below

60%

Probability of Above

33%

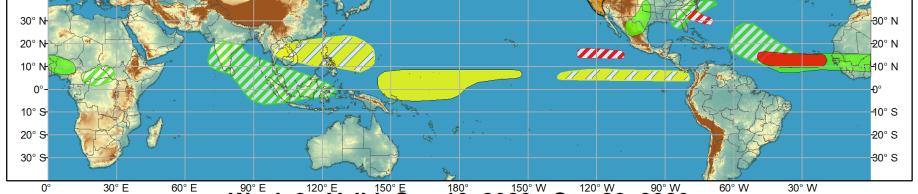
Normal



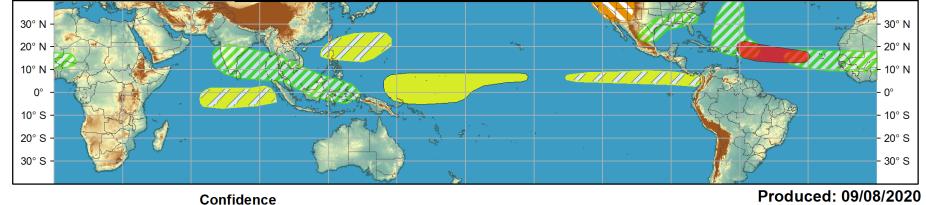
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Forecaster: Pugh

Tropical Cyclone Formation Development of a tropical cyclone (tropical depression - TD, or greater strength).

Above-average rainfall Weekly total rainfall in the upper third of the historical range.

High Moderate

Below-average rainfall Weekly total rainfall in the lower third of the historical range.

Above-normal temperatures 7-day mean temperatures in the upper third of the historical range.

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