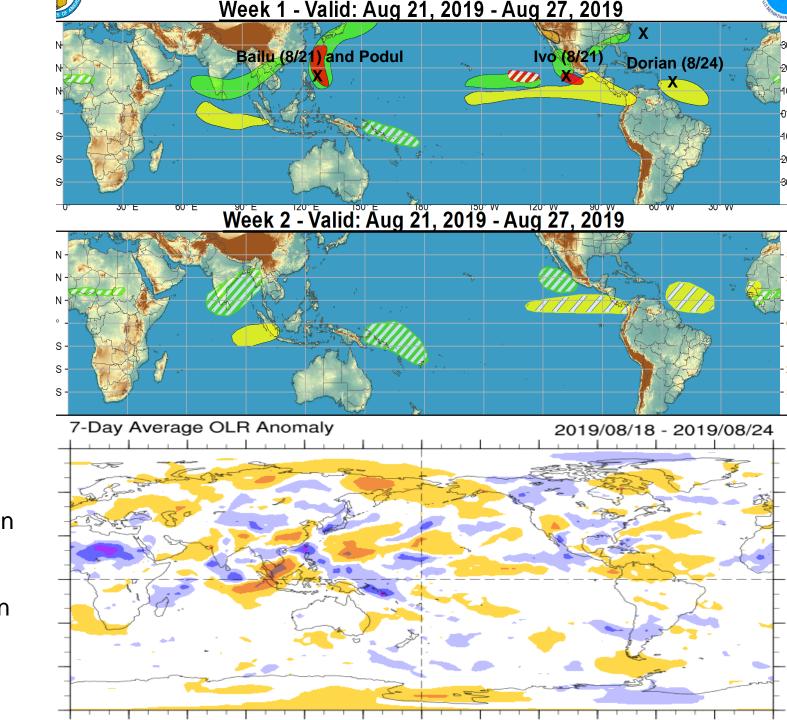
Global Tropics Hazards And Benefits Outlook 8/27/2019

Brad Pugh

<u>Outline</u>

- 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: (as of August 12, 2019 – next update on Thursday, September 12th)

- ENSO Alert System Status: <u>Final El Niño Advisory</u>
- ENSO-neutral conditions are present, and is most likely to continue through Northern Hemisphere Winter 2019-2020 (50-55% chance).

MJO and other subseasonal tropical variability:

- The MJO remains weak.
- The MJO may become more organized during Week-2 with the enhanced phase over the Maritime Continent.

Tropical cyclone development:

- Multiple tropical cyclones likely to form either east of the Philippines or the South China Sea. Will need to closely monitor any recurving TCs in the West Pacific that would affect pattern over North America.
- Peak of Atlantic hurricane season occurs in early to mid-September.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Sep 04, 2019 - Sep 10, 2019



Confidence Produced: 08/27/2019

Forecaster: Pugh

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

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.













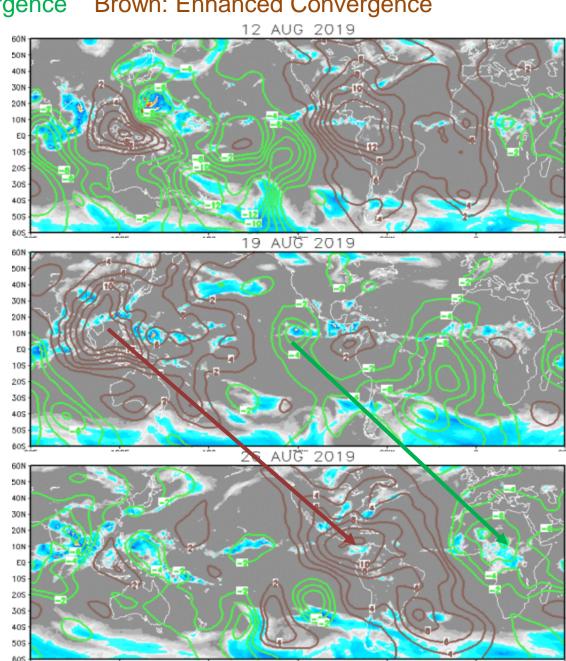
IR Satellite & 200-hpa Velocity Potential Anomalies

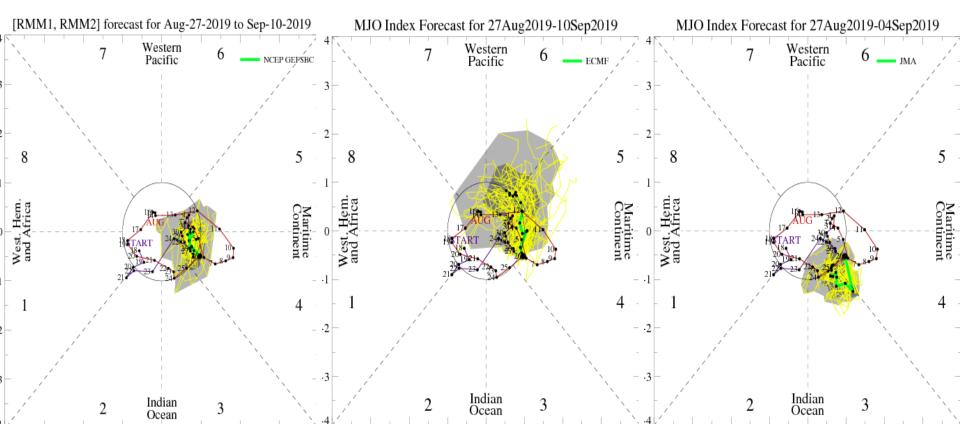
Green: Enhanced Divergence Brown: Enhanced Convergence

Incoherent pattern with more regional anomalies.

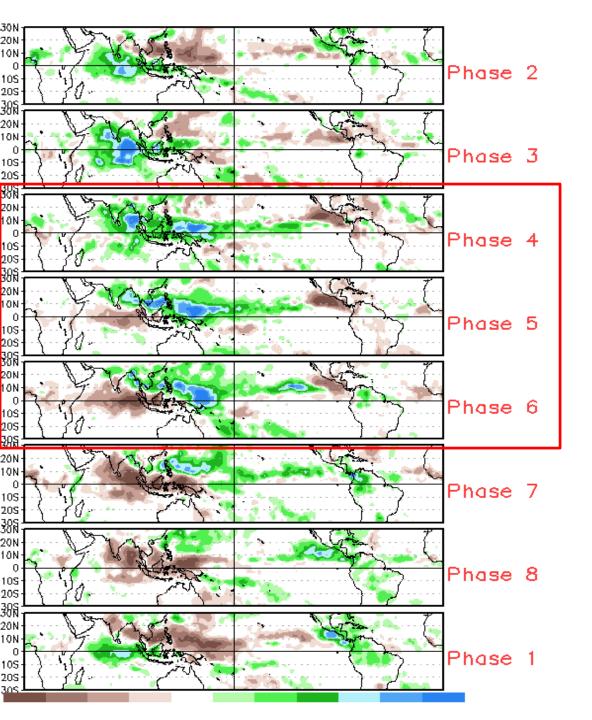
More Wave-1 pattern developed but fast eastward propagation (Kelvin wave).

Enhanced upper-level divergence overspreading Indian Ocean.

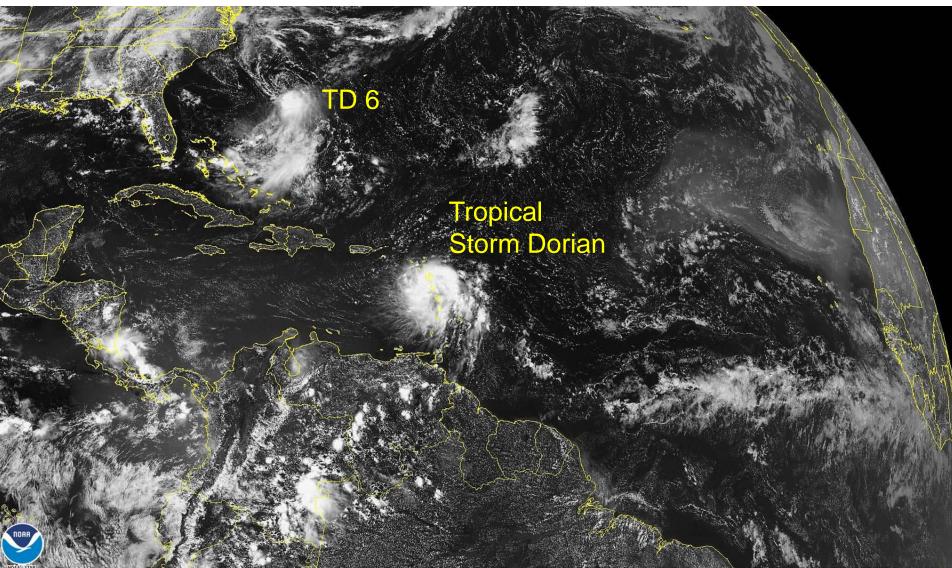




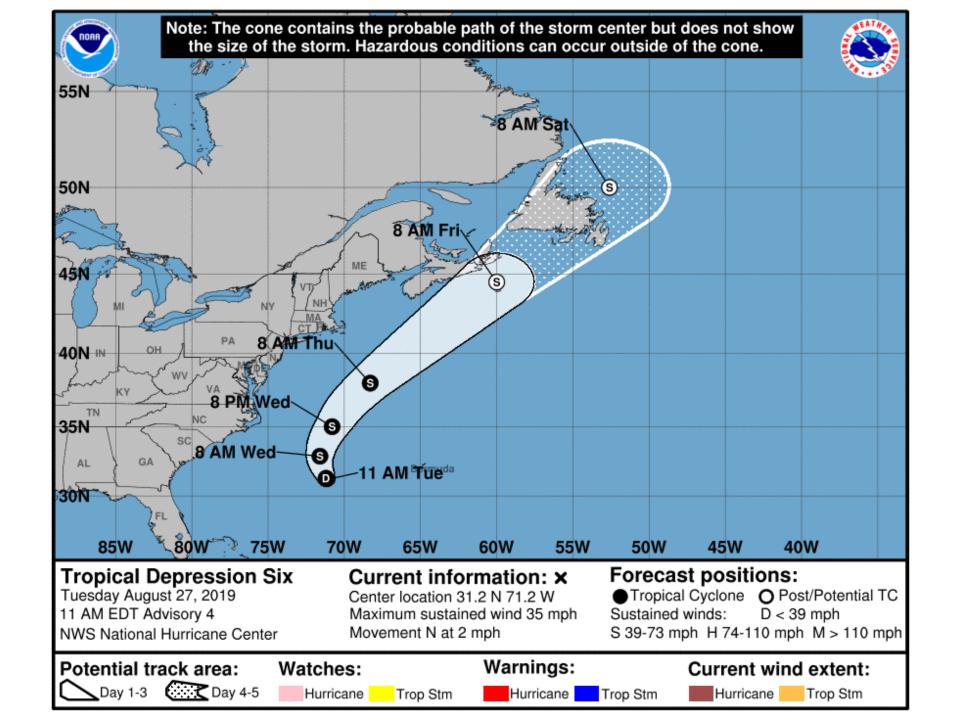
- GFS and JMA indicate a continued weak MJO.
- ECMWF ensemble mean (green line) and most of its ensemble members depict a MJO propagating east from the Maritime Continent (phases 4 and 5) to the West Pacific (phase 6).

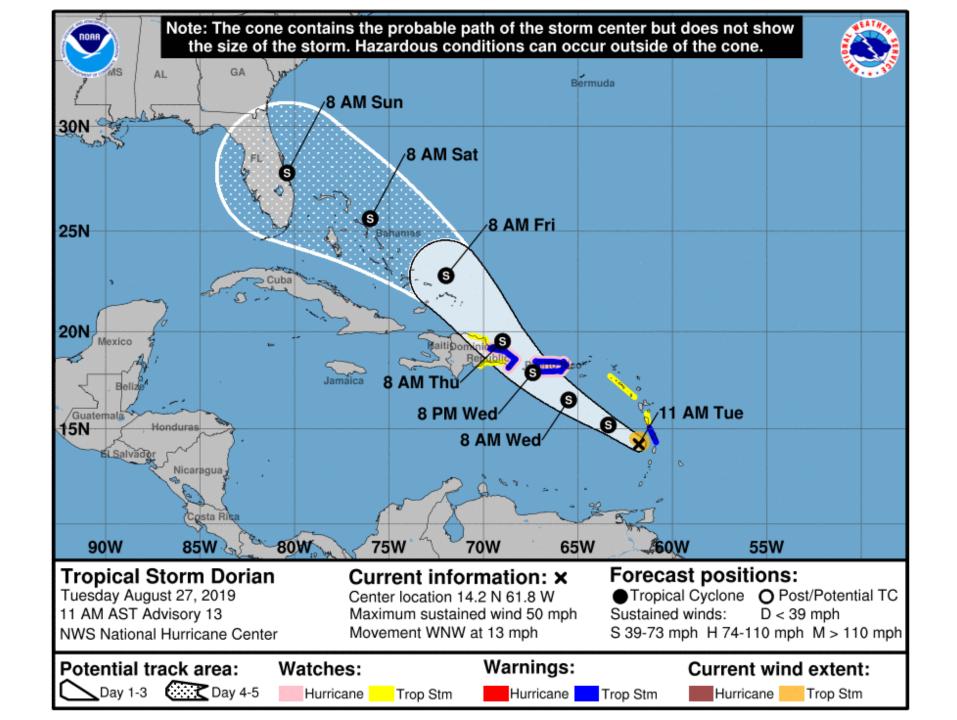


Visible Satellite Image: 1:10pm EDT



27 Aug 2019 17:10Z NOAA/NESDIS/STAR GOES-East Band 02

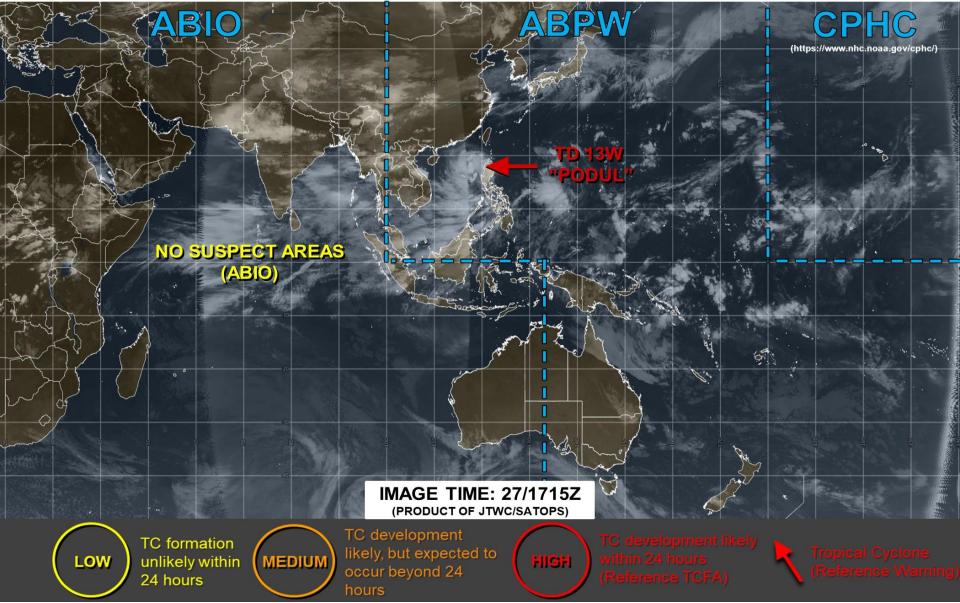




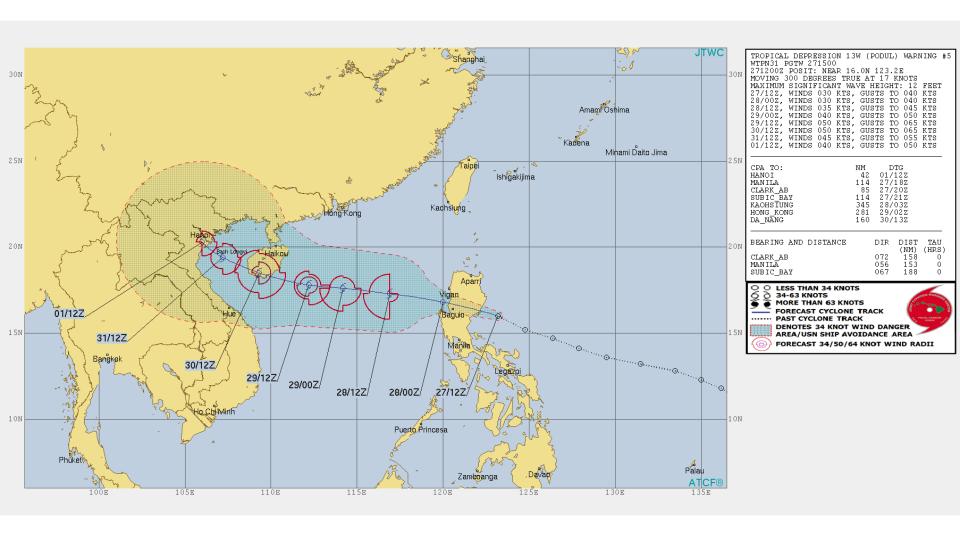


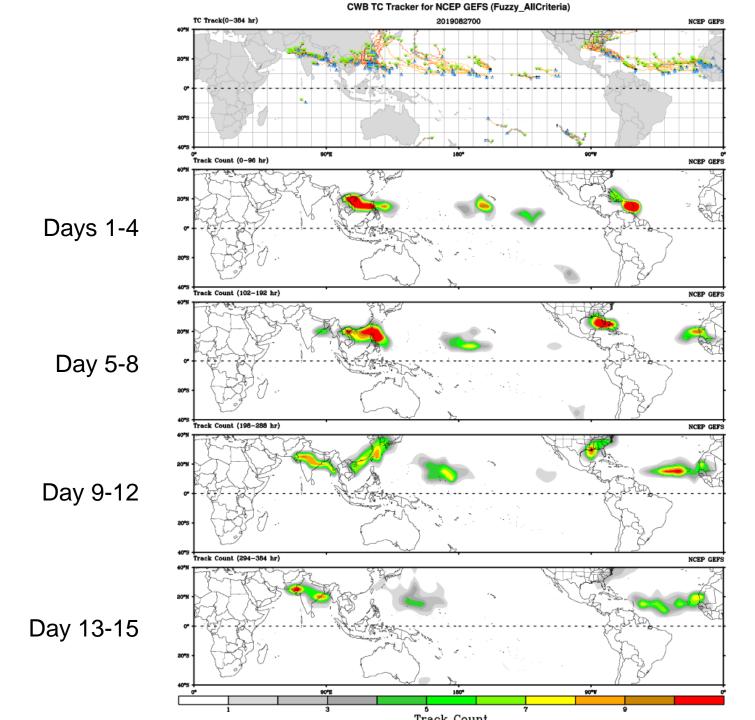
JOINT TYPHOON WARNING CENTER



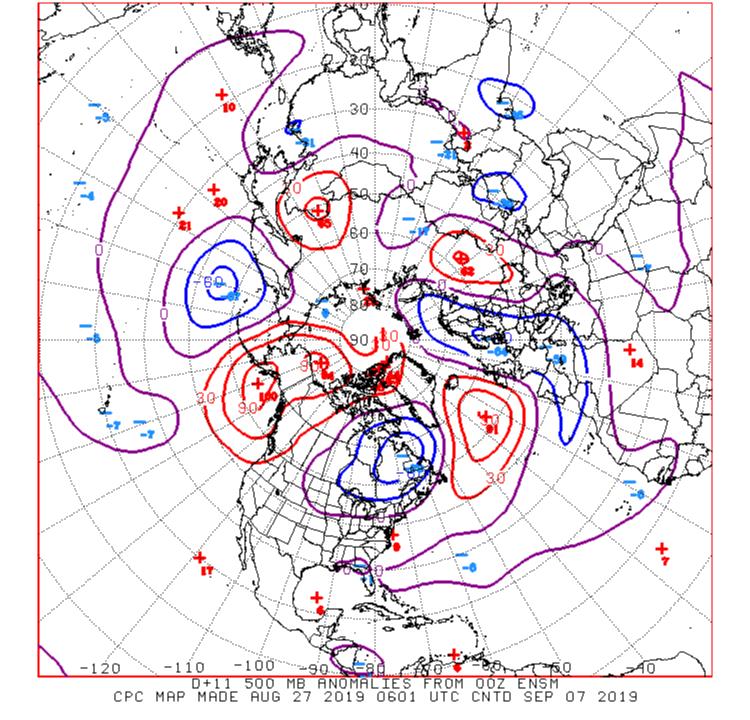


Joint Typhoon Warning Center

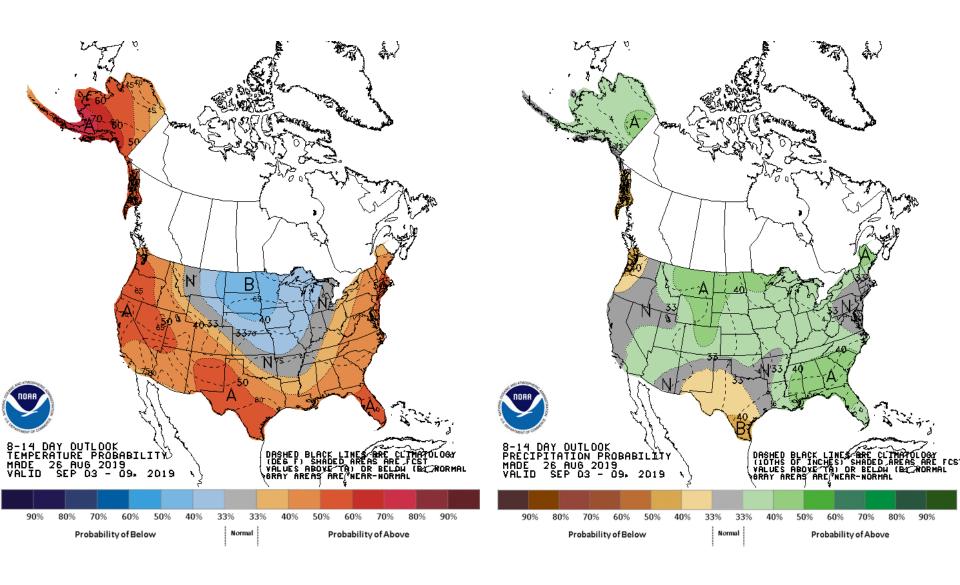




Connections to U.S. Impacts



Week 2 - Temperature and Precipitation





Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Sep 04, 2019 - Sep 10, 2019



Confidence Produced: 08/27/2019

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