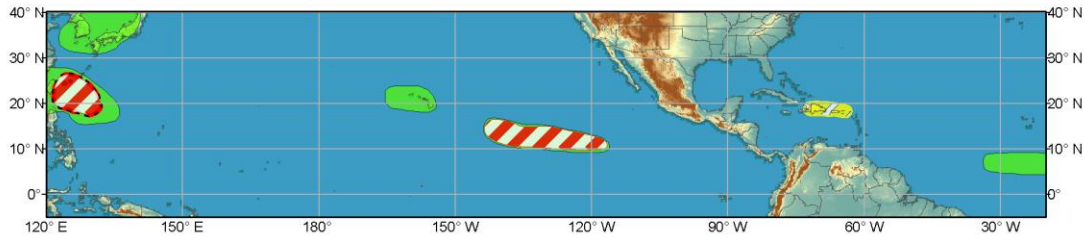




# Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



**Week 1 - Valid: Aug 25 2018 - Aug 28 2018**



**Week 2 - Valid: Aug 29 2018 - Sep 04 2018**



**Confidence**  
High Moderate

**Produced: 08/24/2018**  
**Forecaster: MacRitchie**

- Tropical Cyclone Formation** Development of a tropical cyclone (tropical depression - TD, or greater strength).
- Prior TC Formation Outlook** Tropical cyclone outlook from previous release.
- Above-average rainfall** Weekly total rainfall in the upper third of the historical range.
- 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.
- Below-normal temperatures** 7-day mean temperatures in the lower third of the historical range.

**Product is updated once per week. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.**



There have been a few important forecast changes to the GTH product today. First, the forecast area of above-average rainfall over Hawaii during Week-1 has been expanded to better match the latest guidance from the Central Pacific Hurricane Center regarding Hurricane Lane's track. There is also the possibility of some rain persisting behind Hurricane Lane as it moves westward this weekend and early next week.

Model guidance and the latest National Hurricane Center forecast now suggest that there is a moderate chance of tropical cyclone development in the East Pacific, just west of 115W during Week-1. We have indicated this in our latest forecast. We have also expanded the Week-2 forecast area of tropical cyclone development in the East Pacific to the northwest to better match the latest model guidance.

Lastly, the GFS, ECMWF, and Canadian models are hinting at the possibility of tropical cyclone development just west of the Cape Verde islands during Week-2. Since this is consistent with the climatology of African Easterly Wave activity, we have issued a moderate chance of tropical cyclone formation.

----- Original Discussion Follows: -----

The RMM index and the CPC velocity potential index both indicate that the MJO is currently inactive. Most of the GFS, ECMWF, and other models' ensemble members forecast the MJO to re-emerge over the eastern Indian Ocean or Maritime Continent during the latter part of Week-1. There is considerable spread in this forecast and confidence is low. A moderate or strong MJO during early September would probably aid El Nino development.

Typhoons Cimaron and Soulik in the northwest Pacific are expected to lead to above-average rainfall in that region and over eastern Asia. The Joint Typhoon Warning Center forecasts Typhoon Cimaron to pass over Japan on August 23 and Typhoon Soulik to pass over the Korean Peninsula on August 23-24. Model guidance suggests that another tropical cyclone could form in that area during Week-1, so a moderate risk has been posted.

There is a moderate chance of below-average rainfall over Hispanola and Puerto Rico during Week-1 as models indicate that recent dryness in that region will continue. There is also high confidence in above normal rainfall off the west coast of Africa, which is supported by strong ITCZ and easterly wave activity. Although models suggest that there is little chance that the easterly waves will turn into tropical cyclones during the forecast period, the GFS does spin up a weak tropical cyclone in early September that warrants monitoring.

The Central Pacific Hurricane Center is forecasting Hurricane Lane to track just west of the Big Island in Hawaii on August 23, so a high confidence forecast of above normal rainfall has been posted for that region. There are no indications of further tropical cyclone development in the Central Pacific at this time.

During Week-2, model guidance suggests that tropical cyclone formation is possible in the Eastern Pacific. The GFS has reduced the likelihood of this happening during the past 24 hours, so we will continue to monitor the development potential and will make any necessary changes in the Friday update. Otherwise, the tropics look fairly quiet during Week-2. Some dryness is possible over the Indian Ocean and eastern Pacific as a weak MJO develops.

Forecasts over Africa are made in consultation with the CPC international desk, and can represent local-scale conditions in addition to global-scale variability.