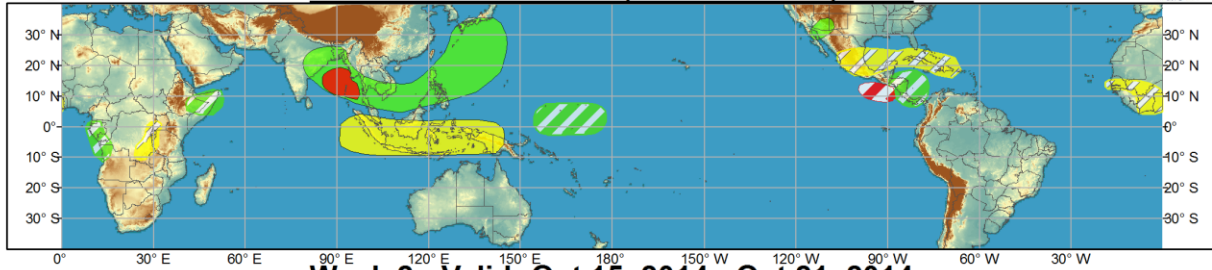




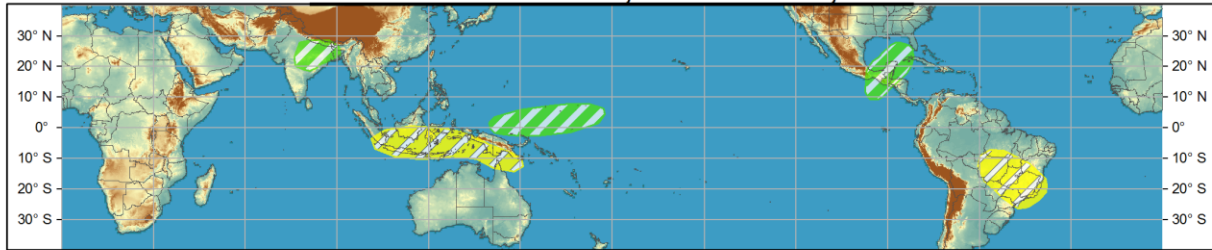
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Oct 08, 2014 - Oct 14, 2014



Week 2 - Valid: Oct 15, 2014 - Oct 21, 2014



Confidence
High Moderate

- 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.
- 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.

Produced: 10/07/2014

Forecaster: Baxter

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.



The MJO remained generally weak during the past week. The RMM index reflected a very weak signal, recently emerging as a slightly more coherent signal over the Maritime Continent and western Pacific. The CPC velocity potential index suggests a stronger enhanced convective phase over the Maritime Continent and western Pacific, but with little eastward propagation over the past week or so. Dynamical models suggest that a weak signal early in the period may become more coherent as an eastward-propagating MJO event over the Western Hemisphere. Additionally, there is some indication of two atmospheric Kelvin waves over the Maritime Continent and western Hemisphere which are forecast to propagate quickly across the Pacific and the Atlantic, respectively, during Week-1.

As of 12:30 pm on 7 Oct 2014, Tropical Storm Simon is still active over the East Pacific, and is forecast to rapidly weaken over the next day or so as it moves northeastward into the southwestern CONUS, bringing locally heavy rain. Super Typhoon Vongfong is forecast to move northward in the western Pacific over the next several days. Model guidance has been somewhat inconsistent with the forecast track of this system, and so interests in the area should monitor the latest forecasts from the Joint Typhoon Warning Center (JTWC). During the next day or so, a tropical cyclone is forecast to form in the Bay of Bengal, and is expected to track northwestward toward the Indian subcontinent. Tropical

cyclogenesis is possible late in Week-1 over the eastern Pacific, with the probabilities possibly being enhanced by an atmospheric Kelvin wave moving through the area. NHC currently has a 20% chance of formation over the next five days associated with this area. There is currently a low risk of tropical cyclone formation over the Caribbean or southern Gulf of Mexico late in Week-1 or early in Week-2. This area is climatologically favored for TC development, and any Kelvin wave activity could be helpful. However, there is significant model disagreement as the ECMWF deterministic run and its ensemble are not as supportive of development as the GEFS system. Also, any large-scale MJO signal, although weak, would not be supportive of development during Week-1.

Tropical cyclone activity is forecast to enhance odds for above-average rainfall over much of the western Pacific and Bay of Bengal during Week-1, while large scale suppression is supported by model guidance and any large-scale MJO signal farther south over the Maritime Continent. Atmospheric Kelvin wave activity is forecast to contribute to enhanced rainfall over parts of Central America during Week-1. The remnants of Tropical Storm Simon are forecast to bring locally heavy rainfall to parts of northwestern Mexico and the southwestern CONUS. A large region of compensating subsidence is forecast to extend from parts of Mexico eastward toward Cuba and Hispaniola.

Rainfall forecasts over Africa during Week-1 are based on local scale circulation features and produced by the CPC International Desk.

During Week-2, enhanced rainfall is favored over the equatorial western Pacific, consistent with above-average SSTs in that region. Lingering tropical moisture enhances the risk of above-average rainfall over parts of eastern India during Week-2. This may be of interest considering the South Asian monsoon generally breaks down in early to mid-October, so climatology is relatively low in that area. The aforementioned potential for tropical cyclone development in the Caribbean is expected to contribute at least to above-average rainfall extending northeastward to near the Florida peninsula. Below-average rainfall is favored over much of the southern Maritime Continent and parts of Brazil, largely based on good numerical model consensus.