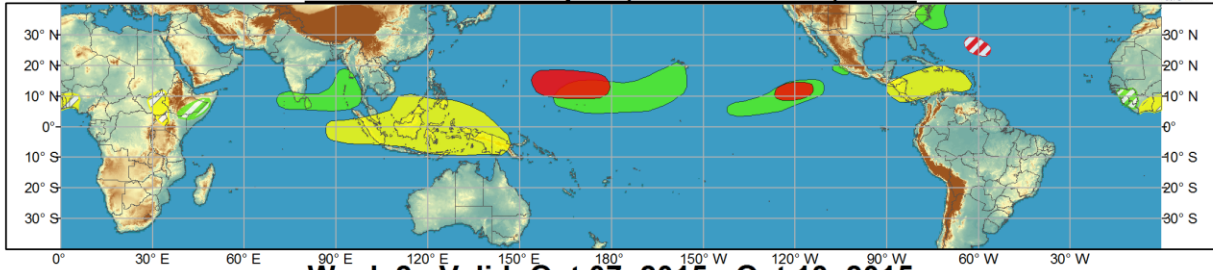




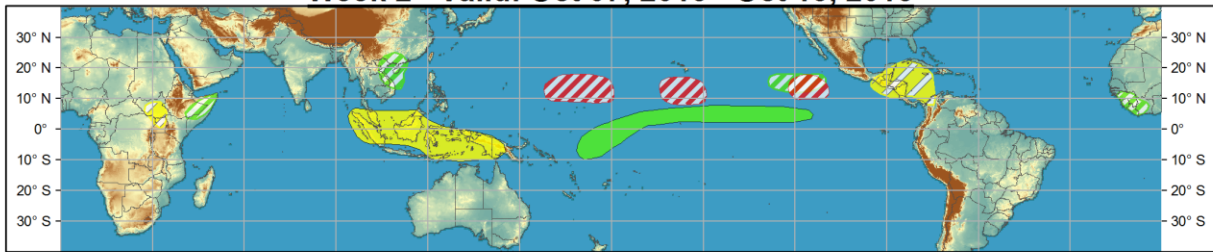
# Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



## Week 1 - Valid: Sep 30, 2015 - Oct 06, 2015



## Week 2 - Valid: Oct 07, 2015 - Oct 13, 2015



Produced: 09/29/2015

Forecaster: Rosencrans

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.

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 ongoing, strong El Niño continues to remain the major contributor to large scale tropical convective anomalies. The Wheeler-Hendon RMM MJO index indicates no MJO signal, while the CPC Velocity Potential index features a pattern consistent with the background state.

Most dynamical models depict little to no signal over the next 2 weeks, with the GEFS being the exception. The GEFS depicts a westward moving signal over the central Pacific, moving to the western Pacific by Week-2. The signal is not related to MJO activity, and likely related to tropical cyclone activity over the central and western Pacific.

Tropical Storm Joaquin developed over the western Atlantic, and is forecast to move northward, potentially having a major impact on the CONUS from the Mid-Atlantic to the Northeast. Tropical Storm Niala formed south of Hawaii while Hurricane Marty developed near the southern coast of Mexico. Typhoon Dujuan developed over the west Pacific and made landfall along the east coast of Taiwan, bringing heavy rains to the island.

During Week-1, tropical cyclone formation odds are increased over the West Pacific, from about 155E to the Date Line, 10N - 20N. Over the East Pacific, tropical cyclone formation is likely near 120W, while over the Atlantic, the odds of formation are slightly enhanced near 60W. Some models have a weak signal for tropical cyclone development over the Bay of Bengal during Week-1. The climatological peak is later October through early December, and the signal is weak, so no specific hazard is depicted. The central and eastern Pacific are the areas with the highest odds of formation during Week-2.

Patterns of anomalous rainfall during the upcoming week are based on ENSO and dynamical models, which indicate above average rains over Southern India, the Central Pacific including the southernmost islands of Hawaii, and the East Pacific due to tropical cyclone activity. Below average rainfall is forecast over the Maritime Continent and the Caribbean, consistent with ENSO conditions. Some of the signal over the East Pacific is also being derived from statistical tools indicating the passage of a Kelvin Wave during Week-1. Above-average rainfall favored for parts of the East Coast and western Atlantic is related to Tropical Storm Joaquin and anomalous easterly flow/moisture.

During Week-2, below average rains are likely over the Maritime Continent and Caribbean, although there is less certainty over the Caribbean as the Kelvin wave over the East Pacific late in Week-1 could mitigate some ENSO impacts. CFS and GFS models both indicate heavy rains near Vietnam, but the European Center models do not, so the area is highlighted for above average rains, but with a lower confidence. Over the central and eastern Pacific, above average rains would be consistent with the ENSO state and forecast tropical cyclone activity.

Forecasts for Africa are done in collaboration with CPC's Africa Desk and based on model forecast guidance and regional scale anomaly features.