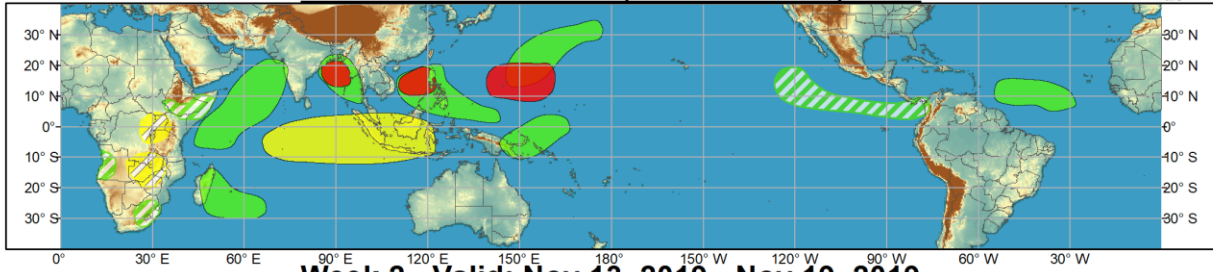




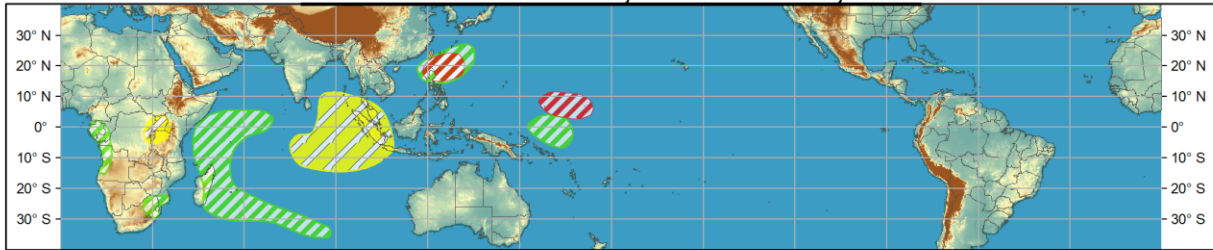
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Nov 06, 2019 - Nov 12, 2019



Week 2 - Valid: Nov 13, 2019 - Nov 19, 2019



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: 11/05/2019
Forecaster: MacRitchie

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 next two weeks are shaping up to be tropically active with important MJO, equatorial Rossby (ER) wave, and tropical cyclone activity stretching from the Indian Ocean to the Dateline. The MJO is in RMM phase 5, with the active convective part of its envelope over the Maritime Continent. Most dynamical models forecast the MJO to propagate over the Western Pacific during the next two weeks. The ECMWF weakens the MJO more than the CFS during this time, but the ensemble means from both models keep the MJO outside of the circle throughout most of the two week forecast period.

Like most strong MJO events, this one has a strong upper-level velocity potential signal. Its OLR signal is also fairly strong, especially when separated from the lower-frequency Indian Ocean Dipole (IOD). The current position of the MJO leads to enhanced ascending motion from the Maritime Continent to the central Pacific. An ER wave is forecast to move through this region during Week-1 and the superposition of these two waves is expected to lead to three distinct areas of enhanced probabilities of tropical cyclogenesis in the Bay of Bengal (currently remnants of TD 23), South China Sea (currently invest 90W), and Philippine Sea during Week-1 and areas just west of the Date Line and north of the Philippines during Week-2.

There are two active TCs in the Eastern Hemisphere. The JTWC forecasts Tropical Cyclone Maha, in the Arabian Sea, to track eastward into northwestern India. Some above normal rain and wind is possible and interested parties are encouraged to consult their local meteorological agency. Typhoon Halong in the west Pacific is forecast to interact with the jet stream and recurve over the North Pacific.

Above normal rainfall is expected in the western Indian Ocean during Weeks 1 and 2 due to the ongoing IOD event. Further east, below normal rainfall is expected over the eastern Indian Ocean due to the MJO and IOD. There are also several areas of above normal rainfall forecast throughout the western Pacific associated with the aforementioned TC activity and variability of the ITCZ. Some above normal rainfall is possible over the western Atlantic as mid-latitude frontal activity moves off the East Coast, but this is omitted from the forecast map because it isn't tropical in nature.

Forecasts of suppressed and enhanced rainfall were made based on a consensus of dynamical model guidance, tropical cyclone forecast tracks, and the anticipated state of the low frequency tropical atmosphere. Forecasts over Africa were made in consultation with the CPC International Desks and may reflect local and regional weather impacts.