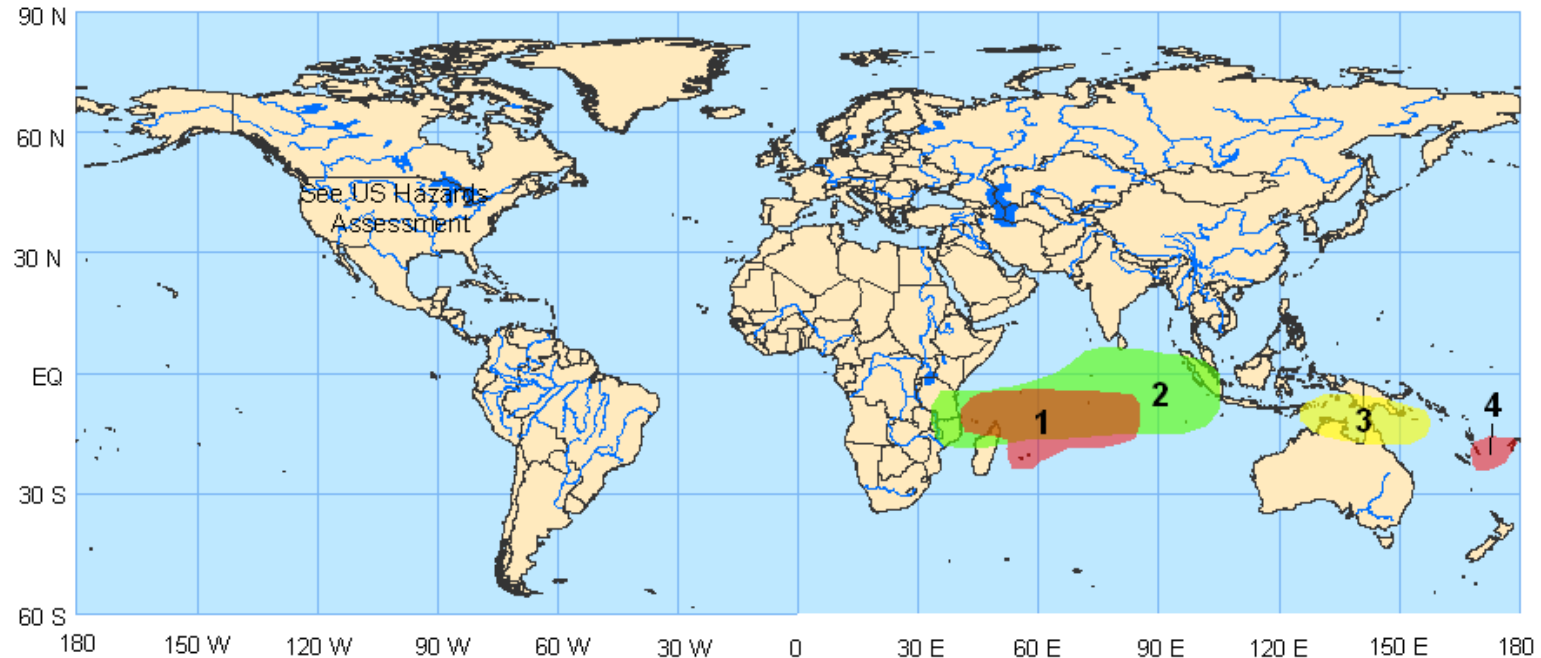


Experimental Global Tropics  
Hazards/Benefits Assessment

Update prepared by:  
Climate Prediction Center / NCEP  
January 28, 2008



**1. Favorable conditions exist for tropical cyclogenesis across the western Indian Ocean.** The enhanced phase of the MJO is expected to contribute to active convection in this region and will result in a greater chance for low-level westerly flow, upper-level divergence, and other factors favorable for tropical development. Sea surface temperatures are above average and numerical weather forecast guidance and statistical tropical cyclone development tools favor further genesis in this region.

**Confidence: High Tropical Cyclone Gula** will impact the waters east of Madagascar and possibly the Mascarene Islands with very strong winds, heavy rainfall, and high seas.

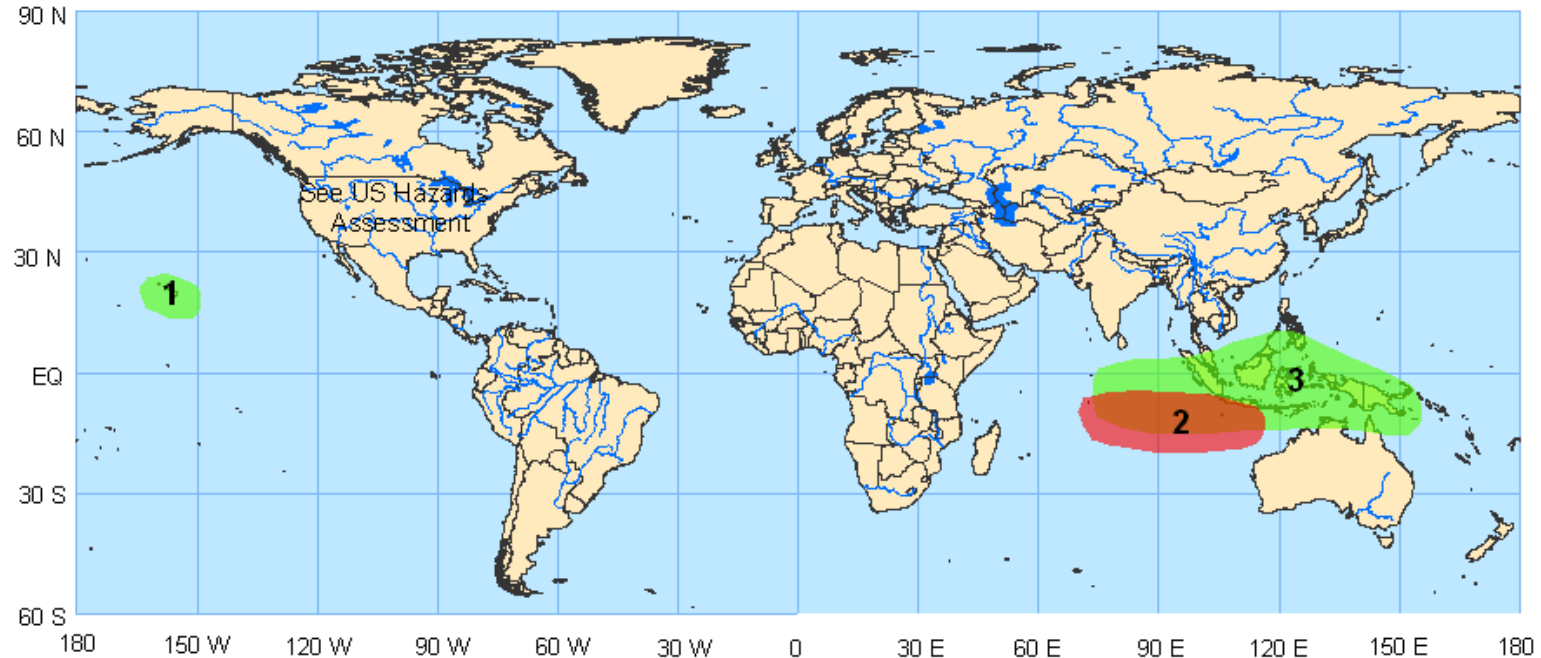
**2. An increased chance for above-average rainfall for much of the equatorial Indian Ocean and parts of southeast Africa.** The enhanced phase of the MJO along with the ongoing La Nina is expected to result in wet conditions across this area during the period. **Confidence: High**

**3. An increased chance for below-average rainfall for eastern Indonesia and northern Australia.** The exiting suppressed phase of the MJO is expected to continue dry conditions across this area especially early during the period. Numerical weather forecast guidance also supports suppressed convection in this region. **Confidence: Moderate**

**4. Tropical Cyclone Gene** will impact Fiji and possibly Vanuatu, New Caledonia and nearby waters across the southwest Pacific with strong winds, heavy rains, and high seas.

Issued: 1/28

## Week 2 Outlook – Valid: February 5 – 11, 2008



**1. An increased chance for above-average rainfall for the Hawaiian Islands and nearby waters.** The expected phase of the MJO and the ongoing La Nina favor the return of wet conditions to this region during the period. **Confidence: Moderate**

**2. Favorable conditions exist for tropical cyclogenesis for the eastern Indian Ocean.** The enhanced phase of the MJO and enhanced convection associated with the ongoing La Nina is expected to contribute to a greater chance for low-level westerly flow and other factors favorable for tropical development. Sea surface temperatures are above average in this area and statistical tropical cyclone development tools favor genesis in this region during the period. **Confidence: High**

**3. An increased chance for above-average rainfall for much of the Maritime Continent.** The enhanced phase of the MJO and the ongoing La Nina are expected to support a favorable large-scale environment for convection and rainfall. Above average sea surface temperatures in some areas will also contribute to enhanced rainfall. **Confidence: High**

**Please note:** Confidence estimates are subjective in nature and are not based on an objective scheme. The estimates are given to provide additional information to the user.