

AWIO20 FMEE 221057

TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

BULLETIN FOR CYCLONIC ACTIVITY AND SIGNIFICANT TROPICAL WEATHER IN  
THE SOUTHWEST INDIAN OCEAN

DATE: 2018/04/22 AT 1200 UTC

PART 1:

WARNING SUMMARY:

Nil.

PART 2 :

TROPICAL WEATHER DISCUSSION:

The basin is in the Near Equatorial Trough (NET) configuration, centered between 10°S in the west of the basin and 5°S in the east. Convective activity is mainly concentrated within two suspect areas.

**North-North-East of Madagascar:**

The upper level clouds presents in the area limit the precise location of the circulation by the low-level clouds on the visible satellite image. At 10UTC, however, it is possible to estimate the center at 10.6°S / 50.8°E with a central pressure of 1004 hPa. The last ASCAT swath is partial and indicate a maximum wind of 20kt. The convective activity is concentrated in the southern part of the circulation which is still temporarily in environmental conditions slightly favorable to a development. Under the effect of upper level dynamics, these conditions will rapidly degrade by increasing vertical wind shear.

Over the next few days, this system should move south and south-east towards the Mascarenes islands in an environment that will not allow it to intensify. However, the rain-storm activity associated with this system will mainly concern Reunion Island from Monday evening with a possible improvement from Wednesday.

**For the next 2 days, the risk of formation of a moderate tropical storm remain low East of Madagascar.**

**East of Diego-Garcia:**

The intense rain-storm activity that has developed within the NET, in the South margin of the equatorial West flow, is maintained. The low-level circulation on the satellite imagery makes it possible to detect a center positioned towards 4.75S and 80.0E at 10UTC. This morning's ASCAT swath estimates winds of around 20-25kt near the center. Under rather favorable environmental conditions, this system should gradually develop over the next few days with good agreement of the different numerical models for development in Moderate Tropical Temperate as of Tuesday. In terms of future track, the models are not yet in agreement with a chronology on the turn towards the South-West still very changing.

**From Tuesday, the risk of formation of a moderate tropical storm remain moderate East of Diego Garcia.**

*NOTA BENE: The likelihood is an estimate of the chance of the genesis of a moderate tropical storm over the basin and within the next five days:*

Very low: less than 10%      Moderate: 30% to 50%      Very high: over 90%  
Low: 10% to 30%      High: 50% to 90%

*The Southwestern Indian Ocean basin extends from the equator to 40S and from the african coastlines to 90E.*