

AWIO20 FMEE 121232

TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

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

DATE: 2018/03/12 AT 1200 UTC

PART 1:

WARNING SUMMARY:

Nil.

PART 2 :

TROPICAL WEATHER DISCUSSION:

Monsoon flow is well established over the whole width of the basin. Convection is strong mainly between 50E and 70E on the two sides of the monsoon trough (MT) axed from 12S to 13S west towards east, between 55E and 90E.

The large scale context is also conducive for cyclogenesis with a strong Equatorial Rossby wave crossing the basin from East to West over the next days. Furthermore, an active MJO phase is still located over the Western half of our basin.

Thus, two suspect areas are visible in the MT.

**Suspect area in the South-East of the Chagos archipelago :**

This morning sat images showed a small low-level cloud vortex suggesting a rather ill-defined clockwise circulation, located near 12.6S/82.6E. The associated convection is fluctuating and strongly North-Easterly to Northerly sheared.

Mid-tropospheric dry air and a increasing Northerly windshear should limit the intensity of this system (at least for the next 5 days).

**For the next 5 days, the risk of development of a moderate tropical storm in the South-East of the Chagos comes back low on Wednesday.**

**Suspect area in the North-East of Madagascar :**

Available observation data of this morning suggest an elongated closed clockwise circulation in this area near 12S and 59E with a minimum of 1006hPa (according Ascat-A of 0605utc).

The system is located in a moderate South-easterly sheared environment on the edge of the upper level ridge.

during the first part of the week, the upper environment becomes more conducive, with a weakening vertical wind shear, an upper divergence becoming excellent on Tuesday and an improving equatorial convergence.

In the middle of the week, there is now a high risk of development of a moderate tropical storm North-east of Madagascar (between 10S and 15S from 50E to 60E).

**For the next 5 days, the risk of development of a moderate tropical storm in the North-East of Madagascar is weak on Tuesday becomes moderate Wednesday and high on Thursday.**

*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:*

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

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