

AWIO20 FMEE 171112

TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

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

DATE: 17/10/2025 AT 1200 UTC

PART 1: WARNING SUMMARY

Nil.

PART 2 : TROPICAL WEATHER DISCUSSION

The Near Equatorial Trough (NET) now extends from 60°E to 890°E, undulating between 5°S and 7°S. There is moderate to strong convective activity along this NET within the disturbed zone located to the east of Diego Garcia.

A well-established Rossby wave is currently crossing the basin: the near-equatorial westerly wind anomaly is very marked. Its interaction with a Kelvin wave ahead of a wet MJO will strengthen this westerly anomaly over the next few days. The passage of a mixed Rossby-gravity wave at the very end of the week could strengthen it. The interaction between the four types of waves makes the conditions very favourable for cyclogenesis.

**Disturbed area to the east of Diego Garcia:**

A disturbed area is currently present around 6°S 78°E to the east of Diego-Garcia. The ASCAT pass at 0441Z shows winds of around 30 kt south of the centre in a large area under the convection. Over the last few hours, although convective activity has not increased significantly, the system has begun to organise itself with a clear symmetrisation.

The deterministic IFS and GFS models, as well as most of the members of their ensemble version, suggest that the system will deepen significantly to the tropical tempe stage within 12 to 24 hours.

This zone will now be monitored regularly by the CMRS.

**The likelihood of the formation of a moderate tropical storm becomes high east of Diego-Garcia in the next 48 hours.**

**10-day outlook :**

In the longer term, there is another risk to the east of the basin in a favourable context for the MJO.

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

*Very low: less than 10%    Moderate: 30% to 60%    Very high: over 90%*  
*Low: 10% to 30%            High: 60% to 90%*

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