

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

DATE: 04/08/2025 AT 1200 UTC

PART 1: WARNING SUMMARY

Nil.

PART 2 : TROPICAL WEATHER DISCUSSION

A short Near Equatorial Trough (NET) is present over the eastern half of the basin, with the presence of two broad clockwise circulations: one around 66E/05S and the second around 91E/05S, to the immediate east of our AoR. Convective activity is weak to moderate along the northern edge of these low level precursors.

Equatorial westerlies are currently favored by the establishment of a wet MJO phase over the basin, but also by a Kelvin wave over the eastern part of the basin.

West of Diego-Garcia :

The 0130TU HY-2B swath depicts a broad, rather ill-defined low-level structure, with winds averaging 15 to 20kt (very slightly more under the convection given the 0530TU partial ASCAT-C swath). Convective activity is sparse and rather moderate, with rather unorganized clusters far from the center, according to the 2054TU AMSR-2 image.

The analysis shows that the environment remains very unfavorable, with almost no equatorial low level convergence and a powerful NE windshear aloft, coupled with dry air in the middle troposphere from Thursday onwards.

Deterministic models do not suggest any significant deepening of this precursor. The European Ensemble Forecast (EPS) does, however, suggest a few members deepening to storm strength from tomorrow, Tuesday.

For the next 5 days, there remains a very slight risk of a moderate tropical storm forming from tomorrow, Tuesday, west of Diego-Garcia.

On the easternmost parts of the basin :

To the east of the basin in the Indonesian AoR, another closed low level circulation is present with weak to moderate convective activity, to the immediate west of the assumed low-level center. The latest ASCAT-C passes from 0330Z and HY-2C from 0430TU measure winds of 25kts in the southwest semicircle, partly under the convection. This precursor is set to slide southwards towards the Australian zone of responsibility over the next few days, with little potential for development, given the lack of convergence on the equatorial side and the altitude constraint.

Models are struggling to suggest a deepening to the storm stage, with the exception of the EPS, which is proposing rare members considering the possible moderate tropical storm stage, from tomorrow onwards, over the far east of our basin.

For the next 5 days, there is a very low risk of tropical storm formation from Tuesday in this area.

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.