

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

DATE: 2023/12/24 AT 1200 UTC

PART 1:
WARNING SUMMARY:

Nil.

PART 2 :
TROPICAL WEATHER DISCUSSION:

The basin has a monsoon trough configuration towards 6°S and east of 58°E. Associated convective activity is insignificant.

The eastern part of the basin continues to be under the influence of a dry MJO phase, defining unfavorable environmental conditions for cyclogenesis over the next 5 days. Although the undulatory context in the western part of the basin is less inhibiting, the potential for cyclogenesis remains just as weak.

From Friday, Kelvin and Rossby waves will cross ahead of a wet MJO over the western part of the basin. This new wave context could set up a more favorable environment for the start of next year.

The ensemble models predict from Thursday 28 a low probability of development of a moderate tropical storm in the south of the Mozambique Channel, within this crossing of waves. It would more likely be a baroclinic deepening, at the left entrance to the upper-altitude jet. The low-level circulation lacks convergence and has difficulty closing, in addition to suffering strong vertical shear during its path south of Madagascar.

Development of a moderate tropical storm is not expected for the next 5 days.

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 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.