AWIO20 FMEE 291140
TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

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

DATE: 29/07/2025 AT 1200 UTC

PART 1: WARNING SUMMARY

Nil.

PART 2 : TROPICAL WEATHER DISCUSSION

The basin remains in winter pattern. Convective activity is almost absent in the near-equatorial latitudes.

At present, the circulation of a Kelvin wave over the eastern part of the basin is inducing a surge of equatorial westerlies, favoring the development of a Near Equatorial Talweg (NET) pattern east of 70E during this week. In this situation, low-level vorticity could strengthen and favor the emergence of a low level precursor over the center of the basin, or even in the Indonesian AoR.

A weak low-layer vortex can be detected around 6.5S/75.9E. The 0330TU ASCAT-C and the 0630TU Oceansat-3 show an elongated, ill-defined low level center with maximum wind speed around 15/20kt in the southern semicircle. Despite a good mid-tropospheric moist, this vortex is undergoing strong ENE upper-level shear, as well as a lack of low-level convergence. Between now and Thursday, these poor conditions will persist, and will be combined with intrusions of dry air aloft, which will last until the end of the week. The latest deterministic guidance does not suggest a significant deepening of this minimum. Ensemble models do suggest a few outliers, but these are too few in number to suggest a risk of a moderate tropical storm development.

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

10-day outlook :
In the longer term, over the first week of August, in the wake of the Kelvin wave and ahead of a moist MJO phase, low-level convergence within the NET could strengthen a bit more. A very slight risk of cyclogenesis could then emerge in the vicinity of 90E.

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.