

AWIO20 FMEE 221143

TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

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

DATE: 2022/09/22 AT 1200 UTC

PART 1:

WARNING SUMMARY:

Nil.

PART 2 :

TROPICAL WEATHER DISCUSSION:

The basin displays the beginnings of the return of a Near Equatorial Trough (NET) East of 75°E, with weak to moderate convective activity, concentrated mainly around a weak low level clockwise circulation located near 6°S / 88°E, according to the last MIMIC-TPW images (CIMSS).

The 0630 UTC HY2C swath shows an ill defined low level center with average maximum wind speed about 20/25kt.

The low level convergence on the equatorial side should temporarily improve from tomorrow and until the beginning of next week, improving the low level vorticity, itself favored by the circulation of an equatorial Rossby wave. These environmental conditions, together with a Ocean Heat Content (OHC), could suggest an increasing cyclogenesis phase. However, the upper shear is expected to remain strong throughout the period (low located on the northern edge of the subtropical ridge), thus hindering the potential for cyclogenesis over the next few days, despite a slightly positive signal from the EPS and GEFs ensemble models for this weekend. The deterministic models still do not suggest any potential for deepening. At most, strong breeze force wind will be reached in the southern semicircle of this weak tropical low, by gradient effect. It should also be mentioned that this low is expected to move west-southwestward for 5kt and that consequently the OHC should decrease as well.

Thus, for the next 5 days, there is no risk of formation of a moderate tropical storm.

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.