

AWIO20 FMEE 041130

TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

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

DATE: 2021/02/04 AT 1200 UTC

PART 1:

WARNING SUMMARY:

Nil.

PART 2 :

TROPICAL WEATHER DISCUSSION:

The basin is in a well-defined monsoon trough (MT) pattern along 10S. Convection is mainly located on the equatorial side of the MT, within the slowing area of the monsoon flow. While the system nb 09 merged with the Western tip of the MT, a new clockwise circulation developed South-East of the Chagos.

A well-defined surface circulation appeared as a low-level clouds vortex on this morning sat animations, near 11.45S/81E at 06Z. This circulation begins to concentrate significant convective activity, while benefiting from conducive conditions currently : a nice monsoon feed in the low-levels and a good upper divergence aloft. Max winds are estimated at 20kt on each side of the circulation.

However, the environment is expected to become more neutral with decreasing low-level convergence and upper divergence. The available guidance also have mixed feelings about this environment and do not translate it as a deepening in every model run. The ensemble prediction illustrate this uncertainty with a moderate risk of cyclogenesis.

The risk of formation of a moderate tropical storm becomes moderate from Sunday South-East of the Chagos.

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.