

AWIO20 FMEE 261220

TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

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

DATE: 2017/02/26 AT 1200 UTC

PART 1:

WARNING SUMMARY:

Nil.

PART 2 :

TROPICAL WEATHER DISCUSSION:

The trans-equatorial flow is established over much part of the basin, except temporarily today over the far eastern part of the basin. It feeds a monsoon trough (MT) defined east of 60E and between 7°S and 9°S. Deep convective activity within the MT remains locally strong but fluctuating without any suspect area at present time. Strong thunderstorm activity exist over the equatorial Indian ocean (east of 80°E) associated with an enhancement of low to mid level equatorial westerlies. Elsewhere, the convective activity is also locally strong over the northern Mozambique Channel but also without any suspect area.

Areas north of 10°S are under moderate to strong vertical easterly windshear conditions. The upper level ridge is defined east of 60°E around 15°S.

A noticeable activity from tropical waves (mainly MJO and Equatorial Rossby) is developing over the tropical Indian ocean. This background generally enhance the potential for tropical cyclogenesis. Currently there is no unanimous signal from the NWP product. UKMO, NAVGEM and IFS (model from ECMWF) suggest that a cyclogenesis is likely during the second part of next week. Arpège and GFS show no development during this period. The ensemble forecast from IFS give some credit to the "developing scenario" with a slight increase of its signal compare to yesterday.

On this basis, a low, associated with a large clockwise circulation, may form this week between Agaléga and the Chagos archipelago around 10°S. Within an easterly sheared environment, development should be slow to occur potentially not before the end of the week as the system is expected to move in a general west-south-westwards direction and move closer to the upper level ridge.

Amongst forecast fields from the "developers" numerical guidance, there is a clear signal of a Monsoon Low wind structure, characterized by a large clockwise circulation with the strongest winds located relatively far away from the center.

For the next 5 days, the likelihood of development of a moderate tropical storm becomes low from Friday.

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 50%	Very high:	over 90%
Low:	10% to 30%	High:	50% to 90%		

The Southwestern Indian Ocean basin extends from the equator to 40S and from the african coastlines to 90E.