

AWIO20 FMEE 121111

TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

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

DATE: 2020/04/12 AT 1200 UTC

PART 1:

WARNING SUMMARY:

Nil.

PART 2 :

TROPICAL WEATHER DISCUSSION:

Despite a dry MJO phase currently crossing the basin, convection is rather frequent over the near-equatorial area. Especially within the branch of monsoon trough (MT) east tyo 65E axed from 7S to 11S from West towards East, over the Eastern half of the basin. Two suspect areas are nested within the MT.

**Area of disturbed weather, East of the basin :**

A wide clockwise circulation remains located East of the border of the basin, within the Australian area of responsibility. This morning ASCAT-A swath reveals a more circular circulation than yesterday, with max winds of about 10/15kt, reaching 20kt in the south-western semi-cercle in the trades flow and a center near 11S/92E. Convective activity is significant over the area, thanks to a good poleward divergence and a strong surface convergence fueled by moderate trade winds. This low is forecast to enter in our area of responsibility tomorrow.

Over the next days, upper conditions remain favorable to a cyclogenesis. However, the lack of equatorward convergence should most likely prevent the consolidation of the low-level circulation, or at least slow it down. Thus, some deterministic Euro runs forecast a cyclogenesis occurring next week and the analysis of the available ensemble prediction suggest also a increasing cyclogenesis signal for the next week, but t weakening at the end of the week.

**The risk of formation of a moderate tropical storm east of the basin is upgraded to low to moderate on Tuesday.**

**Suspect area south of the Chagos archipelago :**

South of the Chagos, a small clockwise circulation appeared in the western tip of the MT. This morning ASCAT-B and ASCAT-C swath reveal a weak elongated circulation near 8S/72E, with with max winds of about 15/20kt. Associated convection has strengthened, but remain fluctuating for the moment.

The lack of equatorward convergence should prevent any further development in the short term but some ensemble members suggest a more significant deepening from the middle of next week...

**The risk of formation of a moderate tropical storm South of the Chagos becomes temporary low at the begining of the week.**

*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.*