AWIO20 FMEE 081143
TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

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

DATE: 2023/05/08 AT 1200 UTC

PART 1:
WARNING SUMMARY:

Nil.

PART 2 :
TROPICAL WEATHER DISCUSSION:

The basin is in a Near Equatorial Trough (NET) pattern that extends north of Madagascar, east of 50°E, between 3 and 6°S. There is moderate to strong convective activity within the NET. A low-pressure circulation is currently present around 6°S,65°E in the western part of the NET, with no significant deepening potential. The basin pattern is linked to a westerly wind surge trailing the MJO convection zone, and to a crossing between a Kelvin wave and an Equatorial Rossby wave.

In the second part of the week, this environment could lead to the formation of a closed circulation in the Indonesian area east of our area of responsibility. The beginning of this circulation, northwest of the Cocos Islands, is difficult to detect because it is very stretched and not closed with a convergence still too weak and a poorly organized convection. But the convergence is expected to strengthen in the coming days and a closer circulation could enter the area of responsibility by Saturday, with a good humid air supply and upper level divergence.
As of Friday, May 12, a few members of the IFS and GFS ensemble forecasts are predicting an entry of this circulation into the tropical depression or even moderate tropical storm (MTS) stage in the SOOI basin. This is confirmed by the deterministic GFS model. However it is necessary to wait until the beginning of the following week, around the 16th, for the deterministic IFS to try to dig a MTS.

There is a very low risk of a tropical storm forming over the eastern end of the basin from Friday 12 May, becoming low the following days.

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.