

AWIO20 FMEE 271051

TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

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

DATE: 2013/12/27 AT 1200 UTC

PART 1:

WARNING SUMMARY:

Nil

PART 2 :

TROPICAL WEATHER DISCUSSION:

The transequatorial monsoon inflow is established from the African coastlines to 90E. Over the Indian Ocean, the monsoon inflow undulates along a 09S/53E - 08S/70S -05S/90ES axis. The convective activity within the ITCZ is mainly located north of the trough, and more active, but yet fluctuating west of 65E and east of 85E.

Over the Mozambique Channel, the monsoon inflow goes down up to 15S, but the convective activity, that has concerned the Comoros archipelago and Mayotte, has decreased.

Area of cyclogenese north-west of Magalasy :

Inversely, the convective activity should increase between the Seychelles and the North-East of Madagascar within the next 2 days due to good lower levels inflow equatorward and weak upper level wind-shear. The available NWP models develop a closed clockwise circulation in this area from Saturday, and deepen it on Sunday. Monday, as the residual circulation of ex-Amara disappears, the trades flow strengthen in the south of the area, producing a good inflow southward.

Residual vortex of System nr 02-20132014 (Ex-AMARA) :

The low level vortex is totally exposed at 1000Z near 21.8S/62.7E

- 10 min maximum winds are estimated at 10/15 kt, locally 20 kt in the southern sector due to the gradient effect.

- Estimated MSLP 1010 hPa

- Movement westward 11 kt under the easterly steering influence of the subtropical ridge.

This low is expected to fill during the next 36 hours.

The likelihood that a Tropical Depression develops over our basin is very low until Friday, low Saturday and becomes moderate from Sunday North-East of Madagascar, and important on Monday due to the cyclogenesis north-east of Madagascar.

NOTA BENE: The likelihood is an estimate of the chance of the genesis of a tropical depression 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.