

AWIO20 FMEE 191257

TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

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

DATE: 2019/03/19 AT 1200 UTC

PART 1:

WARNING SUMMARY:

Warnings WTIO20 and WTIO30 FMEE 007/12 issued at 06Z on Moderate Tropical Storm  
SAVANNAH. Next warnings at 12Z.

PART 2 :

TROPICAL WEATHER DISCUSSION:

The monsoon flow is established east of 50°E. It feeds a Monsoon Trough (MT) pattern axed along 12-13°S where a suspect area is located South-West of the Chagos archipelago. Elsewhere, the thunderstorm activity is located near the Mozambican coastlines associated with EX-IDAI remnants.

**Overland depression EX- IDAI :**

A low level vortex can be seen on the last images near 19.6S 34.6E at 10Z. Convective activity is mainly located overseas, in the eastern semi-circle. Last ASCAT swaths show that maximum winds are reaching up to 20kt. This low is expected to dissipate by Friday, while still bringing heavy rains over the central Mozambique.

**Suspect area South-West of the Chagos archipelago :**

Within the MT an area of concentrated thunderstorm activity is still located between 10-13°S and 55-70°E. Last ASCAT swaths show a broad trough with probably a more pronounced circulation near 62E. In the next days, environmental conditions appear conducive for the intensification of this system (good monsoon feeding and upper divergence first at north than on the poleward side). Only a westerly constraint increasing from Sunday may limit its potential.

Numerical guidance is becoming to converge toward a consensus. Indeed, last main model runs suggest a cyclogenesis east of 60E. Later, due to the presence of a ridge at its north-east and the lack of high geopotentials at south, a southward then southward track is likely. Rodrigues island appears much more threatened for now than the other islands of the Mascarene Archipelago. On the fastness of the deepening, there are still some inconsistencies, with IFS and its ensemble slower than the others. This scenario may be too cautious given the recent Arôme runs (coupled with IFS) and the imperfect analysis.

**The risk of formation of a moderate tropical storm North of the Mascarenes archipelago becomes moderate on Thursday and high from Friday.**

**Moderate Tropical Storm SAVANNAH :**

**Position at 10Z :** 18.3S / 85.3E

**10mn Max Winds :** 40 kt

**Min. Pressure :** 1000 hPa

**Motion :** West, 7 kt

*For further information, please refer to technical bulletins WTIO20 and WTIO30 issued at 06Z and followings.*

*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.*