

AWIO20 FMEE 151207

TROPICAL CYCLONE CENTER / RSMC LA REUNION / METEO-FRANCE

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

DATE: 2016/07/15 AT 1200 UTC

PART 1:

WARNING SUMMARY:

Nil.

PART 2 :

TROPICAL WEATHER DISCUSSION:

The South West Indian Ocean is still in a Near Equatorial Trough (NET) pattern axed east of 55E between 2S and 8S.

Over the last 24 hours, convective activity remained fluctuating related to the diurnal cycle.

However south of the Chagos archipelago, it starts to consolidate near the center of the clockwise circulation associated with the area of disturbed weather monitored for several days.

Area of disturbed weather, south of the Chagos

Since yesterday, the cloud pattern is always well visible intermittently north of the main deep convection, due to a strong easterly vertical wind shear(reaching 30/40kt according to CIMSS data of 06utc).

The center yet difficult to precisely depict on SSMIS micro-waves data of 0208utc or on satellite imagery due to lack of low level organisation near the center. it main be estimated near 8.3S/69.5E, with a pression of 1004 hPa, and winds about 15/20kt.

The last ASCAT swath (0529Z) is not centred over the center, but show however a wide area of winds about 30kt locally 35kt extending from 10S to 20S between 60E and 75E, due to the gradient effect with the subtropical highs. The polar low level convergence may increase today and tomorrow as the anticyclonic cell shift eastward.

The most available numerical guidances (CEP, GFS, UKMO) and the ECMWF prediction ensemble, forecast a track oriented towards the west-south-west on the north-western edge of the subtropical ridge during the next three days, then a recurved track towards South-West or South depending on the model .

however the NWP maintain a strong vertical wind shear on the system until saturday. A small intensification window of 24 hours can be forecast, as the system becomes closer the axis of the upper level ridge, with a weakening of the upper level constraint, and remains over SST quite enough.

Up to Monday, the oceanic potential should become unfavorable to significant development.

However, in the neighborhood of this system, even if quite weak, may induce significant degradation of weather conditions on the Mascarene archipelago from Monday.

For the next five days, the potential of development of a tropical depression is moderate to high up to Monday and then moderate.

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.