

WTIO30 FMEE 010624

RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 11/9/20172018

1.A POST-TROPICAL DEPRESSION 9 (EX-FLAMBOYAN)

2.A POSITION 2018/05/01 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 17.4 S / 83.9 E

(SEVENTEEN DECIMAL FOUR DEGREES SOUTH AND EIGHTY THREE DECIMAL NINE DEGREES EAST)

MOVEMENT : SOUTH 6 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 990 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 50 KT

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

6.A EXTENSION OF WIND BY QUADRANTS (KM):

28 KT NE: 260 SE: 460 SW: 560 NW: 260

34 KT NE: 130 SE: 370 SW: 330 NW: 130

48 KT NE: 60 SE: 110 SW: 110 NW: 60

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/05/01 18 UTC: 19.3 S / 84.0 E, MAX WIND=045 KT, POST-TROPICAL DEPRESSION

24H: 2018/05/02 06 UTC: 21.3 S / 84.9 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

36H: 2018/05/02 18 UTC: 23.1 S / 85.9 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

48H: 2018/05/03 06 UTC: 25.0 S / 87.7 E, MAX WIND=035 KT, POST-TROPICAL DEPRESSION

60H: 2018/05/03 18 UTC: 27.6 S / 90.4 E, MAX WIND=030 KT, POST-TROPICAL DEPRESSION

72H: 2018/05/04 06 UTC: 30.6 S / 93.9 E, MAX WIND=035 KT, EXTRATROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2018/05/05 06 UTC: 37.1 S / 102.8 E, MAX WIND=045 KT, EXTRATROPICAL DEPRESSION

2.C ADDITIONAL INFORMATION:

OVER THE LAST 6 HOURS, CONVECTION HAS BEEN RAPIDLY SHEARED AWAY FROM THE SURFACE CIRCULATION. THE LOW LEVEL CENTER IS NOW CLEARLY EXPOSED ON THE VIS IMAGERY, WHILE THE CONVECTION IS NOW ONLY LOCATED IN THE SOUTH-EASTERN QUADRANT. THE CIRCULATION SEEMS ALREADY ELONGATED AND THE WV IMAGES SHOW DRY STRATOSPHERIC DRY AIR IN THE WEST OF THE SYSTEM, SUGGESTING AN UPPER ANOMALY LOCATED QUITE CLOSE TO THE CORE. CONSIDERING THE QUICKNESS AND MAGNITUDE OF THE CHANGES OBSERVED ON THE SAT IMAGES, EX-FLAMBOYAN HAS ALREADY BEEN CLASSIFIED AS A POST-TROPICAL SYSTEM.

THE SYSTEM UNDERGOES CURRENTLY THE DETRIMENTAL EFFECTS OF THE INCREASE OF THE VERTICAL WIND SHEAR (ANALYSED AT OVER 25KT BY CIMSS). MOREOVER, OCEANIC HEAT CONTENT IS SIGNIFICANTLY DECREASING SOUTH OF 18S. AS UPPER ANOMALIES CIRCULATE IN THE SOUTH-WEST OF THE SYSTEM, TEMPORARY REINTENSIFICATION OF THE CONVECTION ARE POSSIBLE DUE TO BAROCLINIC PROCESSES, BUT THE MAIN TREND REMAINS A DECREASE IN INTENSITY.

EX-FLAMBOYAN REMAINS ON ITS TRACK TO CIRCUMVENT THE LOW/MID-LEVEL SUBTROPICAL RIDGE LOCATED IN THE EAST WITH A GRADUAL SOUTH-EASTWARDS TURN EXPECTED DURING THE FORECAST PERIOD. FROM WEDNESDAY, THE SYSTEM SHOULD ACCELERATE AHEAD OF A DEEP MID-LATITUDES TROUGH ARRIVING FROM THE SOUTH-WEST. AT THE END OF THE TAUS, ONCE THE SYSTEM BECOMES EXTRA-TROPICAL, A PURELY BAROCLINIC REINTENSIFICATION IS FORECASTED.