

WTIO30 FMEE 300016 CCA

*****CORRECTIVE*****

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

0.A WARNING NUMBER: 6/9/20172018

1.A SEVERE TROPICAL STORM 9 (FLAMBOYAN)

2.A POSITION 2018/04/30 AT 0000 UTC:

WITHIN 30 NM RADIUS OF POINT 14.1 S / 85.0 E

(FOURTEEN DECIMAL ONE DEGREES SOUTH AND EIGHTY FIVE DECIMAL ZERO
DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-WEST 9 KT

3.A DVORAK ANALYSIS: 3.5/3.5/W 0.5/6 H

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: 150 SE: 410 SW: 410 NW: 110

34 KT NE: 70 SE: 150 SW: 150 NW:

48 KT NE: 40 SE: 60 SW: 40 NW:

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 1500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/04/30 12 UTC: 15.6 S / 84.1 E, MAX WIND=045 KT, MODERATE TROPICAL
STORM

24H: 2018/05/01 00 UTC: 16.9 S / 83.6 E, MAX WIND=035 KT, MODERATE TROPICAL
STORM

36H: 2018/05/01 12 UTC: 18.3 S / 83.4 E, MAX WIND=035 KT, POST-TROPICAL
DEPRESSION

48H: 2018/05/02 00 UTC: 19.8 S / 83.6 E, MAX WIND=035 KT, POST-TROPICAL
DEPRESSION

60H: 2018/05/02 12 UTC: 20.8 S / 84.2 E, MAX WIND=035 KT, EXTRATROPICAL
DEPRESSION

72H: 2018/05/03 00 UTC: 22.2 S / 85.4 E, MAX WIND=030 KT, EXTRATROPICAL
DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2018/05/04 00 UTC: 28.5 S / 91.5 E, MAX WIND=035 KT, EXTRATROPICAL
DEPRESSION

2.C ADDITIONAL INFORMATION:

T=3.5- CI=3.5

ENVIRONMENTAL DRY AIR HAS REDUCED THE SIZE OF FLAMBOYAN THAT CONSISTS OF A SMALL VERY COLD CDO. 2055Z SSMI 85 GHZ MICROWAVE SHOWS THAT THE INTERNAL CORE HAS SUFFERED DURING THE LAST HOURS WITH THE EROSION OF THE MICROWAVE EYE FEATURE. DATA FROM 1604Z ASCAT SHOWED THAT STORM FORCE WINDS ARE LOCATED ESSENTIALLY WITHIN THE SOUTHEASTERN QUADRANT. SO THE INTENSITY IS ESTIMATED AT 50 KT.

DURING THE NIGHT, WITH THE WEAKENING OF THE MID TROPOSPHERE RIDGE AT SOUTH, THE SYSTEM HAS BENDED SOUTHWESWARD. FROM TUESDAY, FLAMBOYAN IS EXPECTED TO CURVE SOUTH THEN ACCELERATING SOUTHEASTWARD FROM WEDNESDAY AHEAD A MID/UPPER LEVEL TROUGH BEFORE EVACUATE TOWARD THE MID-LATITUDE. THE RSMC TRACK FORECAST IS BASED ON A MODEL CONSENSUS.

TODAY, ENVIRONMENTAL CONDITIONS BEGIN TO DETERIORATE. EQUATORWARD UPPER LEVEL DIVERGENCE BECOMES POOR BUT POLERWARD DIVERGENCE REMAINS VERY GOOD AHEAD AN UPPER LEVEL TROUGH. BUT, PROGRESSIVELY, NORTHWESTWARD VERTICAL WINDSHEAR ASSOCIATED TO THE TROUGH IS FORECASTED TO NOTICEABLY INCREASE LEADING TO A QUICK WEAKENING OF THE SYSTEM FROM MONDAY NIGHT. FROM WEDNESDAY, INTERACTING WITH THE SUBTROPICAL JETSTREAM AND EVOLVING OVER COOLER SST, THE SYSTEM SHOULD START ITS EXTRAPOLISATION PHASE AND GAIN QUICKLY FRONTAL CHARACTERISTICS.