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WTIO30 FMEE 021322

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

0.A WARNING NUMBER: 1/6/20162017

1.A ZONE OF DISTURBED WEATHER 6

2.A POSITION 2017/03/02 AT 1200 UTC:

WITHIN 60 NM RADIUS OF POINT 11.9 S / 60.1 E

(ELEVEN DECIMAL NINE DEGREES SOUTH AND SIXTY DECIMAL ONE DEGREES EAST)

MOVEMENT : WEST-SOUTH-WEST 8 KT

3.A DVORAK ANALYSIS: 1.5/1.5/S 0.0/0 H

4.A CENTRAL PRESSURE: 1004 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 20 KT

RADIUS OF MAXIMUM WINDS (RMW) :NIL

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 1000 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2017/03/03 00 UTC: 12.1 S / 59.2 E, MAX WIND=025 KT, TROPICAL DISTURBANCE

24H: 2017/03/03 12 UTC: 12.4 S / 58.7 E, MAX WIND=030 KT, TROPICAL DEPRESSION

36H: 2017/03/04 00 UTC: 12.7 S / 58.3 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

48H: 2017/03/04 12 UTC: 13.2 S / 57.9 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

60H: 2017/03/05 00 UTC: 13.7 S / 57.5 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

72H: 2017/03/05 12 UTC: 14.2 S / 57.2 E, MAX WIND=065 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK :

96H: 2017/03/06 12 UTC: 15.2 S / 56.4 E, MAX WIND=085 KT, TROPICAL CYCLONE

120H: 2017/03/07 12 UTC: 17.9 S / 55.2 E, MAX WIND=095 KT, INTENSE TROPICAL CYCLONE

2.C ADDITIONAL INFORMATION:

THE ZONE OF DISTURBED WEATHER 6 SHOWS A LARGE CIRCULATION INSIDE OF WHICH IT IS DIFFICULT TO DEFINE A CENTER PRECISELY. THE ASCAT SWATH

ENABLES TO ESTIMATE MAXIMUM WINDS AROUND 20KT FAR FROM THE CENTER, WHICH MAY LOCALLY REACH 25KT IN THE NORTHEASTERN QUADRANT. STRONG CONVECTIVE BURSTS CONCERN THE SOUTH-WEST SEMI-CIRCLE OF THE DISTURBED AREA.

THE TRACK FORECAST IS DRIVEN BY A NORTHEASTERN RIDGE, BENDING GRADUALLY THE MOVEMENT TOWARDS THE SOUTHWEST AND THE MASCARENES ISLANDS. HOWEVER, THE DIFFERENT MODELS AND ENSEMBLE FORECAST SYSTEM ARE FLUCTUATING ON THE PHILOSOPHY OF THIS TRACK, WITH A POSSIBLE MORE WESTWARD ORIENTATION. INDEED, A 500HPA RIDGE LOCATED SOUTH OF MADAGASCAR MIGHT INFLUENCE THE TRACK FROM THE END OF THE WEEKEND. THE RECENT RUNS ARE IN AGREEMENT WITH THE FIRST SCENARIOS OF THE ECMWF'S ENSEMBLIST FORECAST. A STRONG UNCERTAINTY ON THE TRACK IS THEREFORE EXPECTED.

ENVIRONMENTAL CONDITIONS ARE ALL CONDUCTIVE FOR A SUSTAINED AND CONTINUOUS INTENSIFICATION OF THE SYSTEM. THUS, IT SHOULD REACH THE STAGE OF INTENSE TROPICAL CYCLONE AT THE END OF RANGE.