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WTIO30 FMEE 160105
RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 4/5/20212022
1.A TROPICAL DISTURBANCE 5

2.A POSITION 2022/02/16 AT 0000 UTC:
WITHIN 20 NM RADIUS OF POINT 14.2 S / 70.7 E
(FOURTEEN DECIMAL TWO DEGREES SOUTH AND
SEVENTY DECIMAL SEVEN DEGREES EAST)
MOVEMENT: WEST 14 KT

3.A DVORAK ANALYSIS: 2.0/2.0/D 0.5/6 H

4.A CENTRAL PRESSURE: 995 HPA
5.A MAX AVERAGE WIND SPEED (10 MN): 25 KT
RADIUS OF MAXIMUM WINDS (RMW): NIL

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1003 HPA / 800 KM
8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):
12H: 2022/02/16 12 UTC: 14.1 S / 69.6 E, VENT MAX= 030 KT, TROPICAL DEPRESSION
28 KT NE: 0 SE: 0 SW: 110 NW: 0

24H: 2022/02/17 00 UTC: 14.1 S / 67.1 E, VENT MAX= 030 KT, TROPICAL DEPRESSION
28 KT NE: 0 SE: 0 SW: 110 NW: 0

36H: 2022/02/17 12 UTC: 14.2 S / 65.0 E, VENT MAX= 030 KT, TROPICAL DEPRESSION
28 KT NE: 0 SE: 0 SW: 155 NW: 0

48H: 2022/02/18 00 UTC: 14.3 S / 63.3 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM
28 KT NE: 130 SE: 175 SW: 230 NW: 130
34 KT NE: 95 SE: 85 SW: 85 NW: 100

60H: 2022/02/18 12 UTC: 14.9 S / 62.0 E, VENT MAX= 040 KT, MODERATE TROPICAL STORM
28 KT NE: 165 SE: 230 SW: 260 NW: 165
34 KT NE: 120 SE: 120 SW: 100 NW: 130

72H: 2022/02/19 00 UTC: 15.8 S / 60.6 E, VENT MAX= 045 KT, MODERATE TROPICAL STORM

28 KT NE: 205 SE: 280 SW: 250 NW: 195
34 KT NE: 140 SE: 155 SW: 100 NW: 150

2.B LONGER-RANGE OUTLOOK:
96H: 2022/02/20 00 UTC: 17.2 S / 58.7 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM
28 KT NE: 140 SE: 415 SW: 335 NW: 155
34 KT NE: 110 SE: 250 SW: 130 NW: 120
48 KT NE: 55 SE: 65 SW: 45 NW: 45

120H: 2022/02/21 00 UTC: 18.2 S / 56.8 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM
28 KT NE: 140 SE: 425 SW: 295 NW: 260
34 KT NE: 110 SE: 270 SW: 175 NW: 195
48 KT NE: 70 SE: 80 SW: 60 NW: 60

2.C ADDITIONAL INFORMATION:
T=CI=2.0

OVER THE LAST 6 HOURS, THE SYSTEM CLOUD PATTERN HAS IMPROVED SIGNIFICANTLY. WE HAVE PROGRESSIVELY SHIFTED FROM A SHEARED PATTERN TO A CURVED BAND PATTERN, WITH AN INITIALLY EXPOSED LLCC, APPROACHING AN AREA OF INTENSE CONVECTION. THE SYSTEM IS STILL UNDER AN EASTERLY CONSTRAINT AT 20/30KT ACCORDING TO CIMSS DATA. THE DVORAK ANALYSIS ALLOWS AN INCREASED INTENSITY ESTIMATE TO 20KT.

DURING THE NEXT TWO DAYS, THE SYSTEM SHOULD EVOLVE WESTWARDS, AT THE NORTHERN EDGE OF THE SUBTROPICAL RIDGE. THIS RIDGE WILL WEAKEN PROGRESSIVELY AT THE END OF THE WEEK, WHICH WILL TEND TO WEAKEN THE METEOR'S TRACK TOWARDS THE SOUTH-WEST, AND SLOW DOWN ITS COURSE AS IT APPROACHES THE MASCARENES ARCHIPELAGO FROM THIS WEEKEND.

IN TERMS OF INTENSITY, THE TROPICAL DISTURBANCE 05 IS CURRENTLY EXPERIENCING UNCONDUCIVE ENVIRONMENTAL CONDITIONS FOR A RAPID INTENSIFICATION. INDEED, PLACED AT THE NORTHERN EDGE OF THE SUBTROPICAL RIDGE, THE SYSTEM IS UNDERGOING A STRONG WINDSHEAR ALOFT, COMBINED WITH A LACK OF LOW LEVEL CONVERGENCES. THE RAPID MOVEMENT OF THE LOW IN THE DIRECTION OF THE WINDSHEAR, A BETTER LOW LEVEL CONVERGENCE AS WELL AS THE MOVING OF THE SYSTEM CLOSER TO THE RIDGE AXIS AT THE END OF THE WEEK, WILL CERTAINLY PLAY IN FAVOR OF A FUTURE INTENSIFICATION AT THE END OF THE WEEK, AS IT APPROACHES THE MASCARENE ISLANDS, UP TO THE STAGE OF A SEVERE TROPICAL STORM.

THE SYSTEM DOES NOT PRESENT AT THE MOMENT ANY THREAT FOR THE INHABITED LANDS.

** IRREGULAR WARNING DUE TO THE WEAK INTENSITY OF THE SYSTEM.**