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

0.A WARNING NUMBER: 10/1/20172018
1.A TROPICAL DISTURBANCE 1

2.A POSITION 2018/01/02 AT 0600 UTC:
WITHIN 30 NM RADIUS OF POINT 16.1 S / 54.4 E
(SIXTEEN DECIMAL ONE DEGREES SOUTH AND FIFTY FOUR DECIMAL FOUR DEGREES EAST)
MOVEMENT : WEST-SOUTH-WEST 18 KT

3.A DVORAK ANALYSIS: 2.0/2.0/D 0.5/24 H

4.A CENTRAL PRESSURE: 1001 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):

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 900 KM
8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : UNKNOWN

1.B FORECASTS:
12H: 2018/01/02 18 UTC: 16.1 S / 52.8 E, MAX WIND=025 KT, TROPICAL DISTURBANCE
24H: 2018/01/03 06 UTC: 16.0 S / 51.6 E, MAX WIND=030 KT, TROPICAL DEPRESSION
36H: 2018/01/03 18 UTC: 16.1 S / 51.1 E, MAX WIND=035 KT, MODERATE TROPICAL STORM
48H: 2018/01/04 06 UTC: 16.5 S / 50.7 E, MAX WIND=040 KT, MODERATE TROPICAL STORM
60H: 2018/01/04 18 UTC: 16.8 S / 50.2 E, MAX WIND=045 KT, MODERATE TROPICAL STORM
72H: 2018/01/05 06 UTC: 17.1 S / 49.4 E, MAX WIND=040 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK :
96H: 2018/01/06 06 UTC: 18.3 S / 46.8 E, MAX WIND=025 KT, OVERLAND DEPRESSION

2.C ADDITIONAL INFORMATION:
FT=CI=2.0

DURING THE LAST NIGHT, DEEP CONVECTION HAS STRENGTHENED OVER THE CIRCULATION. GROUND LEVEL OBSERVATIONS OF TROMELIN ISLAND SUGGEST THAT A LOW LEVEL CENTRE, BETTER DEFINED HAS TRANSITED IN THE VICINITY OF THE SOUTH OF THE ISLAND AT THE END OF THE NIGHT. THIS POSITION OF THE CENTER IMPLIES AN OVERESTIMATE ACCELERATION OF THE SYSTEM.

THE SYSTEM IS FORECASTED TO MOVE TOWARDS MADAGASGAR STEERED BY THE LOW/MID TROPOSPHERIC RIDGE AXED OVER THE CENTER OF THE BASIN. HOWEVER, IT SHOULD SLOW DOWN AS A FLAT LOW CIRCULATES SOUTH OF MADAGASCAR THUS TEMPORARILY WEAKENING THE STEERING FLOW. THE LOCALIZATION AND THE TIMING OF THE LANDFALL ON THE MALAGASY COASTLINE REMAIN UNCERTAIN BECAUSE OF THE DIFFICULTY OF THE DETERMINISTIC MODELS TO ANALYZE CORRECTLY THE CENTER OF THE CIRCULATION.

THE INTENSITY FORECAST DEPENDS ON THE CAPACITY OF THE SYSTEM TO CONCENTRATE ITS CIRCULATION AROUND A CENTER WELL DEFINED. MOREOVER, THE INTENSIFICATION POTENTIAL IS NOW LIMITED BY THE PRESENCE OF THE MALAGASY COASTLINE. THIS CURRENTLY INTENSITY FORECAST IS SLIGHTLY INCREASE BECAUSE OF AN ENHANCEMENT OF THE CLOUD PATTERN.