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**METEO FRANCE**

WTIO30 FMEE 101900

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

0.A WARNING NUMBER: 8/2/20152016

1.A TROPICAL DEPRESSION 2

2.A POSITION 2015/12/10 AT 1800 UTC:

WITHIN 30 NM RADIUS OF POINT 15.3 S / 69.7 E

(FIFTEEN DECIMAL THREE DEGREES SOUTH AND SIXTY NINE DECIMAL SEVEN DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-WEST 5 KT

3.A DVORAK ANALYSIS: 2.5/2.5/S 0.0/12 H

4.A CENTRAL PRESSURE: 998 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 30 KT

RADIUS OF MAXIMUM WINDS (RMW) :83 KM

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

28 KT NE: 170 SE: 170 SW: NW:

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 1300 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2015/12/11 06 UTC: 15.9 S / 69.0 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

24H: 2015/12/11 18 UTC: 16.9 S / 68.0 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

36H: 2015/12/12 06 UTC: 18.1 S / 67.0 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

48H: 2015/12/12 18 UTC: 19.6 S / 66.0 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

60H: 2015/12/13 06 UTC: 21.3 S / 65.1 E, MAX WIND=030 KT, TROPICAL DEPRESSION

72H: 2015/12/13 18 UTC: 23.2 S / 64.3 E, MAX WIND=030 KT, POST-TROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2015/12/14 18 UTC: 26.7 S / 66.1 E, MAX WIND=025 KT, LOW

120H: 2015/12/15 18 UTC: 28.5 S / 70.6 E, MAX WIND=020 KT, LOW

2.C ADDITIONAL INFORMATION:

FT=2.5- CI=2.5

DEEP CONVECTION HAS BECAME VERY WEAK AT THE END OF THE AFTERNOON. LOW LEVEL CONVERGENCE HAS SEEMED BE DISRUPTED BY A DRIER AIR MASS WRAPING AROUND THE SYSTEM (CIMSS TPW PRODUCT AND 1515Z VAPOR SSMIS MICROWAVE IMAGERY

SINCE THIS EVENING, A FRAGMENTED DEEP CONVECTION BANDING HAS TRIED TO BUILD SOUTH AND WEST TO THE SYSTEM.

THE SYSTEM IS EXTENDING BY A TROPICAL PLUME AHEAD THE SUBTROPICAL JET TOWARD THE SOUTHEAST ONTO THE MID-LATITUDE.

1725Z ASCAT SWATH CONFIRMS THE CURRENT INTENSITY AND SHOWS STRONGEST WINDS FATHER FAR OF THE CENTER.

THE SYSTEM IS CURRENTLY TRACKING WESTSOUTHWESTWARD, STEERED BY A LOW TO MID LEVELS FLOW, NORTH OF A HIGH GEOPOTENTIAL CELL. OVER THE NEXT 24 HOURS, THE TRACK SHOULD BEND SOUTHWESTWARD. INDEED, WITH A LIGHT INTENSIFICATION FORECAST, THE STEERING FLOW SHOULD GO UP ABOVE 700HPA AND BE DRIVEN BY A RIDGE IN THE EAST AND A GEOPOTENTIAL WEAKNESS IN THE SOUTH. AVAILABLE NWP AND ENSEMBLE FORECAST SPREAD HAS DECREASED, THE OFFICIAL SCENARIO IS CLOSE TO A CONSENSUS OF GFS AND ECMWF.

THE SYSTEM IS CURRENTLY UNDER THE UPPER LEVEL RIDGE BUT VERTICAL WINDSHEAR SHOULD REMAINS NORTHEASTWARD TO NORTHWARD ABOUT 15 KT. FROM SATURDAY, WINDSHEAR SHOULD BECOME NORTHWESTWARD AHEAD A NEW UPPER LEVEL TROUGH AND SHOULD GRADUALLY STRENGTHEN. THUS, THE SYSTEM SHOULD NOT EXCEED THE MODERATE TROPICAL STORM STAGE. SUNDAY EVOLVING SOUTH OF 20S, WITH THE INCREASE IN WIND SHEAR AND THE LACK OF OCEANIC CONTENT, THE SYSTEM SHOULD WEAKEN QUICKLY.