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METEO FRANCE

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

0.A WARNING NUMBER: 20/3/20152016

1.A POST-TROPICAL DEPRESSION 3 (EX-CORENTIN)

2.A POSITION 2016/01/25 AT 0600 UTC:

WITHIN 30 NM RADIUS OF POINT 27.2 S / 78.6 E

(TWENTY SEVEN DECIMAL TWO DEGREES SOUTH AND SEVENTY EIGHT DECIMAL SIX DEGREES EAST)

MOVEMENT : EAST 14 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 980 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 40 KT

RADIUS OF MAXIMUM WINDS (RMW) :NIL

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

28 KT NE: 650 SE: 690 SW: 690 NW: 330

34 KT NE: 330 SE: 460 SW: 430 NW: 170

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 1000 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2016/01/25 18 UTC: 26.7 S / 79.3 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

24H: 2016/01/26 06 UTC: 26.3 S / 78.6 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

36H: 2016/01/26 18 UTC: 26.6 S / 77.4 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

48H: 2016/01/27 06 UTC: 27.1 S / 76.7 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

60H: 2016/01/27 18 UTC: 27.4 S / 76.3 E, MAX WIND=035 KT, POST-TROPICAL DEPRESSION

72H: 2016/01/28 06 UTC: 27.9 S / 76.0 E, MAX WIND=030 KT, POST-TROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2016/01/29 06 UTC: 29.2 S / 75.5 E, MAX WIND=030 KT, POST-TROPICAL DEPRESSION

120H: 2016/01/30 06 UTC: 32.3 S / 74.5 E, MAX WIND=035 KT, EXTRATROPICAL SYSTEM

2.C ADDITIONAL INFORMATION:

OVERNIGHT, THE NORTH-WESTERLY SHEAR HAS TOTALLY DISORGANIZED THE VERTICAL STRUCTURE OF THE SYSTEM. AT 06Z, THE LOW LEVEL CIRCULATION CENTER IS EXPOSED ON THE SATELLITE IMAGERY. THE LAST NWP ANALYSIS SUGGEST THAT A WARM FRONT IS ALREADY DEVELOPING IN THE SOUTH-EASTERN QUADRANT OF EX-CORENTIN. IN THIS SOUTHERN SEMI-CIRCLE, WINDS MAY REACH 45KT BUT NO OBSERVATION DATA ALLOW A VALIDATION OF THIS MODEL ANALYSIS. THUS, THE SYSTEM HAS BEEN CLASSIFIED AS A POST-TROPICAL CYCLONE. 0404Z ASCAT SWATH IS PARTIALLY COVERING THE TWO HALVES OF THE CIRCULATION, BUT NOT THE CENTER. THIS DATA SHOW MAXIMUM WINDS REACHING 40KT. THE SYSTEM IS CURRENTLY MOVING OVER LOW HEAT POTENTIAL WATERS.

TODAY, UNDER THE STEERING INFLUENCE OF THE LOW TO MID-LEVEL SUBTROPICAL RIDGE STRENGTHENING IN ITS SOUTH, THE SYSTEM SHOULD SLOW DOWN AND TURN ANTI-CLOCKWISE.

TUESDAY, EX-CORENTIN SHOULD BE UNDER THE STEERING FLOW OF THE SUBTROPICAL ANTICYCLONE AND TRACK GLOBALLY WESTWARD.

FOR THE END OF THE FORECAST PERIOD, FROM WEDNESDAY, THERE IS STRONG SPREAD IN THE DETERMINISTIC AND ENSEMBLE NWP GUIDANCE. THE SYSTEM IS LIKELY TO SLOW WITH A WEAK STEERING FLOW FROM A FLAT LOW, AND THEN, REMAIN ON THE NORTHERN SIDE OF THE SUBTROPICAL ANTICYCLONE (WESTWARD MOVEMENT), OR DIP DOWN SOUTH TOWARDS A MID-LATITUDES TROUGH. AS FOR NOW, THE EXTRA-TROPICALISATION SCENARIO HAS BEEN CHOSEN.