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METEO FRANCE
Toujours un temps d'avance

WTIO30 FMEE 111212

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

0.A WARNING NUMBER: 9/6/20132014

1.A TROPICAL CYCLONE 6 (COLIN)

2.A POSITION 2014/01/11 AT 1200 UTC:

WITHIN 10 NM RADIUS OF POINT 16.6 S / 79.7 E

(SIXTEEN DECIMAL SIX DEGREES SOUTH AND SEVENTY NINE DECIMAL SEVEN DEGREES EAST)

MOVEMENT : SOUTH-WEST 9 KT

3.A DVORAK ANALYSIS: 5.5/5.5/D 1.0/6 H

4.A CENTRAL PRESSURE: 967 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 85 KT

RADIUS OF MAXIMUM WINDS (RMW) :26 KM

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

28 KT NE: 220 SE: 220 SW: 170 NW: 170

34 KT NE: 90 SE: 130 SW: 110 NW: 90

48 KT NE: 60 SE: 70 SW: 70 NW: 60

64 KT NE: 50 SE: 50 SW: 50 NW: 50

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1008 HPA / 800 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2014/01/12 00 UTC: 17.7 S / 78.5 E, MAX WIND=085 KT, TROPICAL CYCLONE

24H: 2014/01/12 12 UTC: 19.1 S / 76.9 E, MAX WIND=080 KT, TROPICAL CYCLONE

36H: 2014/01/13 00 UTC: 20.7 S / 75.5 E, MAX WIND=075 KT, TROPICAL CYCLONE

48H: 2014/01/13 12 UTC: 23.2 S / 73.6 E, MAX WIND=070 KT, TROPICAL CYCLONE

60H: 2014/01/14 00 UTC: 25.2 S / 72.6 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

72H: 2014/01/14 12 UTC: 27.4 S / 72.3 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2014/01/15 12 UTC: 33.0 S / 77.1 E, MAX WIND=045 KT, EXTRATROPICAL SYSTEM

120H: 2014/01/16 12 UTC: 40.3 S / 91.6 E, MAX WIND=035 KT, EXTRATROPICAL SYSTEM

2.C ADDITIONAL INFORMATION:

T=CI=5.5-

THIS SYSTEM OF SMALL SIZE, HAS GONE THROUGH A RAPID INTENSIFICATION DURING THE LAST 6 HOURS. AN EYE ALSO OF SMALL SIZE VISIBLE SINCE 06UTC HAS QUICKLY WARMED UP. INTENSITY AT 00UTC, AND 06UTC HAS BEEN REVIEWED RESPECTIVELY AT 3.5 AND 4.0. DUE TO THE SIZE OF THE SYSTEM, THE CONSTRAINTS

RULES OF 1.0 IN 6 HOURS HAS BEEN BROKEN.

THE SYSTEM IS TRACKING SOUTH-WESTWARD, ON THE NORTH-WESTERN EDGE OF THE MID-TROPOSPHERIC HIGH PRESSURES. DURING THE NEXT DAYS, IT IS EXPECTED TO CONTINUE ON THIS REGULAR TRACK. FROM TUESDAY 14, THE TRACK SHOULD RECURVE SOUTHWARD THEN SOUTH-EASTWARD TOWARDS A POLAR TROUGH IN ITS SOUTH. THE AVAILABLE NWP MODELS ARE IN GOOD AGREEMENT FOR THIS FORECAST TRACK. ECMWF ENSEMBLE MODEL SHOWS A VERY GOOD CONFIDENCE FOR THIS TRACK.

ON THIS FORECAST TRACK, THE WIND-SHEAR CONSTRAINT IS EXPECTED TO REMAIN WEAK WEST OF THE UPPER LEVEL RIDGE. THE POLAR OUTFLOW CHANNEL SHOULD ALWAYS BENEFIT TO THE SYSTEM FOR THE NEXT HOURS, AS THE SST BEGIN TO WEAKEN TO BECOME MARGINAL TOMORROW.

THUS THE SYSTEM IS EXPECTED TO SLIGHTLY INTENSIFY UNTIL SUNDAY. FROM MONDAY, ENVIRONMENTAL CONDITIONS WILL DEGRADE WITH COLDER SST AND THE STRENGTHENING NORTH-WESTERLY WIND-SHEAR. THE SYSTEM MAY BEGIN TO WEAKEN AND THEN UNDERGO A EXTRA-TROPICAL TRANSITION TUESDAY AND WEDNESDAY.