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

0.A WARNING NUMBER: 1/8/20122013

1.A TROPICAL DEPRESSION 8

2.A POSITION 2013/02/11 AT 0600 UTC:

WITHIN 21 NM RADIUS OF POINT 12.6 S / 82.3 E

(TWELVE DECIMAL SIX DEGREES SOUTH AND EIGHTY TWO DECIMAL THREE DEGREES EAST)

MOVEMENT : WEST 8 KT

3.A DVORAK ANALYSIS: 2.5/2.5/S 0.0/0 H

4.A CENTRAL PRESSURE: 997 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :NIL

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

28 KT NE: 40 SE: 240 SW: 190 NW: 70

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1005 HPA / 1100 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2013/02/11 18 UTC: 13.9 S / 80.8 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

24H: 2013/02/12 06 UTC: 15.3 S / 79.6 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

36H: 2013/02/12 18 UTC: 16.9 S / 78.8 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

48H: 2013/02/13 06 UTC: 18.0 S / 78.2 E, MAX WIND=065 KT, TROPICAL CYCLONE

60H: 2013/02/13 18 UTC: 19.6 S / 77.8 E, MAX WIND=075 KT, TROPICAL CYCLONE

72H: 2013/02/14 06 UTC: 21.5 S / 78.3 E, MAX WIND=085 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK :

96H: 2013/02/15 06 UTC: 25.3 S / 80.5 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

120H: 2013/02/16 06 UTC: 27.2 S / 83.2 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

2.C ADDITIONAL INFORMATION:

T=CI=2.5-

CONVECTION HAS CONSOLIDATED DURING LAST NIGHT,AND SHOWS NOW A BANDING PATTERN. INTENSIFICATION IS CONFIRMED BY THE LAST SSMIS DATA OF

0227Z AND BUOY DATA 53006 (-2HPA EN 8 HOURS).

THE SYSTEM IS TRACKING WEST SOUTHWESTWARDS ON THE NORTHERN EDGE OF THE LOW LEVELS RIDGE, IT IS EXPECTED TO TRACK SOUTHWESTWARDS AS A RIDGE BUILDS IN THE EAST OF THE SYSTEM AT MIDDLE LEVEL. ON WEDNESDAY AND BEYOND, THE SYSTEM IS FORECAST TO RECURVE EAST OF 75E UNDER THE COMBINED EFFECT OF THE RIDGE IN THE EAST AND AN ARRIVAL THROUGH IN THE SOUTHWEST.

ON THIS TRACK, CONDITIONS ARE FAVOURABLE TO INTENSIFICATION, WITH THE WEAKENING EASTERLY TO NORTHEASTERLY CONSTRAINT ON MONDAY, THEN UNDER THE RIDGE AXIS ON TUESDAY. ENERGETIC POTENTIAL IS GOOD UP TO 20S. ON THURSDAY AND BEYOND THE SYSTEM UNDERGO A STRENGTHENING NORTH-WESTERLY VERTICAL WIND SHEAR.