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

0.A WARNING NUMBER: 28/2/20132014

1.A INTENSE TROPICAL CYCLONE 2 (AMARA)

2.A POSITION 2013/12/21 AT 0600 UTC:

WITHIN 10 NM RADIUS OF POINT 20.1 S / 64.3 E

(TWENTY DECIMAL ONE DEGREES SOUTH AND SIXTY FOUR DECIMAL THREE DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-EAST 4 KT

3.A DVORAK ANALYSIS: 6.5/6.5/D 0.5/6 H

4.A CENTRAL PRESSURE: 933 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 110 KT

RADIUS OF MAXIMUM WINDS (RMW) :41 KM

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

28 KT NE: 240 SE: 310 SW: 260 NW: 200

34 KT NE: 170 SE: 220 SW: 170 NW: 140

48 KT NE: 130 SE: 170 SW: 130 NW: 120

64 KT NE: 100 SE: 120 SW: 100 NW: 90

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1008 HPA / 900 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2013/12/21 18 UTC: 20.9 S / 65.2 E, MAX WIND=090 KT, INTENSE TROPICAL CYCLONE

24H: 2013/12/22 06 UTC: 21.6 S / 66.3 E, MAX WIND=065 KT, TROPICAL CYCLONE

36H: 2013/12/22 18 UTC: 22.1 S / 67.0 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

48H: 2013/12/23 06 UTC: 22.1 S / 67.3 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

60H: 2013/12/23 18 UTC: 21.8 S / 67.5 E, MAX WIND=030 KT, TROPICAL DEPRESSION

72H: 2013/12/24 06 UTC: 21.3 S / 67.4 E, MAX WIND=035 KT, LOW

2.B LONGER-RANGE OUTLOOK :

96H: 2013/12/25 06 UTC: 19.9 S / 65.5 E, MAX WIND=020 KT, DISSIPATING

2.C ADDITIONAL INFORMATION:

T=CI=6.5-

AMARA STILL SHOWS A VERY WELL SATELLITE SIGNATURE WITH A 3 HOURS AVERAGED DT AT 6.5-. THE SYSTEM IS GONE TO CLOSER TO THE RODRIGUES

ISLAND JUST AFTER 0000Z AT ABOUT 35 NM EASTWARD. NOW, IT IS GOING AWAY FROM THE ISLAND ON A SOUTH-SOUTH-EASTWARD TRACK.

WITHIN THE NEXT HOURS, AMARA MAY RECURVE CLEARLY SOUTH-EASTWARD BY ACCELERATING, IN RELATIONSHIP WITH THE WEAKENING OF THE MID-TROPOSPHERIC SUBTROPICAL HIGH PRESSURES EXISTING EASTWARD AND THE TRANSIT OF THE HIGH TO MID-LEVEL TROUGH SOUTH OF THE SYSTEM. FROM THIS AFTERNOON, IT SHOULD BEGIN TO WEAKEN BY UNDERGOING THE STRENGTHENING NORTH-WESTERLY TO WEST-NORTH-WESTERLY VERTICAL WINDSHEAR.

DURING THE NIGHT BETWEEN SUNDAY AND MONDAY, THE WEAKENING SYSTEM IS EXPECTED TO SLOW DOWN UNDER THE INFLUENCE OF A WEAK STEERING FLOW WITHIN THE MID TO LOW TROPOSPHERE. FROM TUESDAY, THE WEAKENED SYSTEM SHOULD GO BACK WESTWARD WITH THE STEERING FLOW OF THE SUBTROPICAL HIGH PRESSURES REBUILDING SOUTH OF THE MASCARENES ISLANDS. AS BRUCE SHOULD BE LOCATED TO THE SOUTH-EAST OF AMARA AT THIS TIME, THERE IS SOME UNCERTAINTY IN THE TIMING OF THIS RECURVING SCENARIO.