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**METEO FRANCE**  
Toujours un temps d'avance

WTIO30 FMEE 220613

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

0.A WARNING NUMBER: 32/2/20132014

1.A TROPICAL CYCLONE 2 (AMARA)

2.A POSITION 2013/12/22 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 22.1 S / 66.8 E

(TWENTY TWO DECIMAL ONE DEGREES SOUTH AND SIXTY SIX DECIMAL EIGHT DEGREES EAST)

MOVEMENT : SOUTH-EAST 7 KT

3.A DVORAK ANALYSIS: 4.0/5.0/W 0.5/6 H

4.A CENTRAL PRESSURE: 965 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 75 KT

RADIUS OF MAXIMUM WINDS (RMW) :41 KM

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

28 KT NE: 220 SE: 260 SW: 260 NW: 170

34 KT NE: 130 SE: 170 SW: 190 NW: 110

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

64 KT NE: 60 SE: 70 SW: 70 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2013/12/22 18 UTC: 22.2 S / 67.4 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

24H: 2013/12/23 06 UTC: 22.1 S / 67.8 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

36H: 2013/12/23 18 UTC: 21.8 S / 67.9 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

48H: 2013/12/24 06 UTC: 21.2 S / 67.9 E, MAX WIND=030 KT, TROPICAL DEPRESSION

60H: 2013/12/24 18 UTC: 20.7 S / 67.8 E, MAX WIND=030 KT, TROPICAL DEPRESSION

72H: 2013/12/25 06 UTC: 20.4 S / 66.8 E, MAX WIND=025 KT, REMNANT LOW

2.B LONGER-RANGE OUTLOOK :

96H: 2013/12/26 06 UTC: 20.8 S / 62.2 E, MAX WIND=020 KT, LOW

120H: 2013/12/27 06 UTC: 21.3 S / 59.0 E, MAX WIND=020 KT, LOW

2.C ADDITIONAL INFORMATION:

T=4.0- AND CI=5.0-

THE SYSTEM IS ON A RAPID WEAKENING TREND DUE TO AN INCREASING

NORTHWESTERLY SHEAR THAT CAUSE MID-LEVEL DRY AIR ADVECTION. THE CURRENT INTENSITY ASSESSMENT IS ON THE LOW SIDE OF ALL AVAILABLE DVORAK ANALYSIS (SAB WITH CI AT 5.5, ADT AT 5.3) BUT IS IN GOOD AGREEMENT WITH A SATCON ESTIMATE AT 23Z WITH 82 KT 1 MIN WINDS.

UNTIL SUNDAY EVENING, AMARA SHOULD KEEP A SOUTH-EASTWARDS TRACK 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. SYSTEM IS EXPECTED TO CONTINUE WEAKENING RATHER RAPIDLY UNDERGOING THE 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 STILL SOME UNCERTAINTY IN THE TIMING OF THIS RECURVING SCENARIO.