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WTIO30 FMEE 110023

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

0.A WARNING NUMBER: 8/11/20122013

1.A TROPICAL DEPRESSION 11 (EX-JAMALA)

2.A POSITION 2013/05/11 AT 0000 UTC:

WITHIN 30 NM RADIUS OF POINT 9.8 S / 86.9 E

(NINE DECIMAL EIGHT DEGREES SOUTH AND EIGHTY SIX DECIMAL NINE DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-EAST 5 KT

3.A DVORAK ANALYSIS: 2.0/2.5/W 0.5/6 H

4.A CENTRAL PRESSURE: 997 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :111 KM

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

28 KT NE: 170 SE: 330 SW: 280 NW: 180

34 KT NE: 0 SE: 0 SW: 0 NW: 160

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1004 HPA / 500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2013/05/11 12 UTC: 10.4 S / 87.2 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

24H: 2013/05/12 00 UTC: 10.9 S / 87.1 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

36H: 2013/05/12 12 UTC: 10.9 S / 86.5 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

48H: 2013/05/13 00 UTC: 10.9 S / 84.8 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

60H: 2013/05/13 12 UTC: 10.9 S / 82.6 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

72H: 2013/05/14 00 UTC: 11.1 S / 80.2 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2013/05/15 00 UTC: 11.2 S / 75.9 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

120H: 2013/05/16 00 UTC: 11.2 S / 73.4 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

2.C ADDITIONAL INFORMATION:

T=2.0 AND CI=2.5

JAMALA KEEPS ON SUFFERING FROM THE PERSISTENT EASTERLY VERTICAL WIND-

SHEAR.

THE LOW LEVEL CENTRE REMAINS PARTIALLY EXPOSED EAST OF THE CONVECTION.

LAST 1523Z METOP-A AND 1619Z METOP-B ASCAT SWATHS SHOWS A BROAD AREA WITH WEAK WINDS AROUND THE CENTRE AND GALE FORCE WINDS 35 KT ONLY EXISTING FAR AWAY FROM THE CENTRE IN NORTH-WESTERN QUADRANT. SYSTEM IS THEREFORE NOT MAINTAIN AT TROPICAL STORM STAGE AND IS DOWNGRADED TO TROPICAL DEPRESSION STAGE. THIS DOWNGRADE SHOULD BE ONLY TEMPORARILY.

THE SYSTEM IS EXPECTED TO TRACK UNDER THE UPPER LEVEL RIDGE AXIS ALOFT WITHIN THE NEXT FEW HOURS AND WIND-SHEAR SHOULD CLEARLY DECREASE AS THE LOW LEVEL INFLOW REMAINS EFFICIENT ESPECIALLY POLEWARD.

SYSTEM IS THEREFORE EXPECTED TO INTENSIFY AGAIN AND MAY THEN DEEPEN SIGNIFICANTLY UP TO SEVERE TROPICAL STORM STAGE.

WITHIN THE NEXT 24 HOURS, MOST OF AVAILABLE NWP MODELS SUGGEST GENERALLY A SLOW SOUTHWARD MOTION. SUNDAY, WITHIN THE LOW AND MID LEVELS, A RIDGE BUILDS SOUTH-WEST OF THE SYSTEM. JAMALA IS THEREFORE EXPECTED TO RECURVE SOUTH-WESTWARD AND PROGRESSIVELY ACCELERATE ON A WESTWARDS TRACK. IT SHOULD KEEP THIS TRACK UP TO THE END OF THE FORECAST PERIOD.

LATS ECMWF NWP RUN DOES NOT FORECAST A SIGNIFICATIVE STRENGTHENING VERTICAL WIND-SHEAR ANY-MORE BUT ONLY A WEAK STRENGTHENING OF EASTERLY TO NORTH-EASTERLY UPPER LEVEL WINDS ON AND AFTER MONDAY. LAST 12Z RUN OF ECMWF ENSEMBLE PREDICTION SYSTEM DOES NOT PURPOSE ALTERNATIVE SCENARIO ANY-MORE AND ALL THE MEMBERS RE-CURVE NOW SOUTH-WESTWARDS THEN WESTWARDS AFTER 24 HOURS LEAD TIME.