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

0.A WARNING NUMBER: 12/11/20112012

1.A MODERATE TROPICAL STORM 11 (IRINA)

2.A POSITION 2012/03/01 AT 0000 UTC:

WITHIN 30 NM RADIUS OF POINT 16.7 S / 43.7 E

(SIXTEEN DECIMAL SEVEN DEGREES SOUTH AND FORTY THREE DECIMAL SEVEN DEGREES EAST)

MOVEMENT : SOUTH 2 KT

3.A DVORAK ANALYSIS: 3.0/3.5/D 0.5/24 H

4.A CENTRAL PRESSURE: 987 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 45 KT

RADIUS OF MAXIMUM WINDS (RMW) :56 KM

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

28 KT NE: 260 SE: 110 SW: 190 NW: 200

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1003 HPA / 900 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2012/03/01 12 UTC: 17.6 S / 43.4 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

24H: 2012/03/02 00 UTC: 20.0 S / 42.9 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

36H: 2012/03/02 12 UTC: 21.9 S / 41.5 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

48H: 2012/03/03 00 UTC: 22.7 S / 39.5 E, MAX WIND=065 KT, TROPICAL CYCLONE

60H: 2012/03/03 12 UTC: 23.2 S / 37.5 E, MAX WIND=075 KT, TROPICAL CYCLONE

72H: 2012/03/04 00 UTC: 23.4 S / 36.0 E, MAX WIND=085 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK :

96H: 2012/03/05 00 UTC: 24.0 S / 33.8 E, MAX WIND=000 , INLAND

120H: 2012/03/06 00 UTC: 24.1 S / 32.6 E, MAX WIND=000 , INLAND

2.C ADDITIONAL INFORMATIONS:

T=3.0+ AND CI=3.5-.

LOW LEVEL CIRCULATION CENTRE HAS TRACKED SLOWLY SOUTHWARDS DURING THE NEXT 6 HOURS. DEEP CONVECTIVE ACTIVITY ORGANIZES IN A CDO PATTERN. THE PROXIMITY TO THE COAST LIMITS FOR THE MOMENT THE INTENSIFICATION OF THE SYSTEM.

THE EQUATORWARD UPPER LEVEL OUTFLOW HAS BEEN SUBSTITUTED BY A STRONG POLEWARD ONE, PERSISTENT ON ALL THE PERIOD.

SYSTEM IS UNDERGOING TWO OPPOSITE STEERING INFLUENCES, IN MEDIUM TROPOSPHERE. THE FIRST ONE ASSOCIATED WITH AN EQUATORIAL RIDGE LOCATED NORTHWARD AND THE OTHER ONE ASSOCIATED WITH THE SUBTROPICAL RIDGE LOCATED SOUTHWARD. SO THE TRACK IS ALWAYS SLOW. THE SYSTEM SHOULD ACCELERATE TODAY SOUTH SOUTH-WESTWARDS TOWARDS A COL. ON FRIDAY AS THE SUBTROPICAL HIGHS REBUILD THE TRACK SHOULD RECURVED WEST SOUTHWESTWARDS.

THIS FAVOURABLE ENVIRONMENT SHOULD ALLOW THE SYSTEM TO REACH TROPICAL CYCLONE STAGE ON FRIDAY. AVAILABLE NWP FORECAST TRACKS ARE IN GOOD AGREEMENT TO A LANDFALL ON THE MOZAMBIQUE COASTLINE SATURDAY AFTERNOON OR ON SUNDAY MORNING. THE POTENTIAL THREATENED AREAS REMAINS DIFFICULT AT THIS RANGE TO BE PRECISELY TARGETED BUT RUNS AFTER RUNS CONCENTRATES IN A REGION BETWEEN BEIRA AND MAPUTO.