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

0.A WARNING NUMBER: 16/11/20112012

1.A SEVERE TROPICAL STORM 11 (IRINA)

2.A POSITION 2012/03/02 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 21.7 S / 42.3 E

(TWENTY ONE DECIMAL SEVEN DEGREES SOUTH AND FORTY TWO DECIMAL THREE DEGREES EAST)

MOVEMENT : SOUTH-WEST 10 KT

3.A DVORAK ANALYSIS: 3.5/3.5/D 1.0/24 H

4.A CENTRAL PRESSURE: 981 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 50 KT

RADIUS OF MAXIMUM WINDS (RMW) :19 KM

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

28 KT NE: 110 SE: 130 SW: 130 NW: 110

34 KT NE: 70 SE: 70 SW: 70 NW: 70

48 KT NE: 30 SE: 30 SW: 30 NW: 30

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 0 / 0 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2012/03/02 12 UTC: 23.3 S / 40.2 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

24H: 2012/03/03 00 UTC: 23.9 S / 37.8 E, MAX WIND=070 KT, TROPICAL CYCLONE

36H: 2012/03/03 12 UTC: 24.1 S / 35.6 E, MAX WIND=070 KT, TROPICAL CYCLONE

48H: 2012/03/04 00 UTC: 24.1 S / 34.4 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

60H: 2012/03/04 12 UTC: 25.1 S / 33.2 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

72H: 2012/03/05 00 UTC: 25.1 S / 32.4 E, MAX WIND=030 KT, INLAND

2.B LONGER-RANGE OUTLOOK :

96H: 2012/03/06 00 UTC: 23.5 S / 32.3 E, MAX WIND=020 KT, DISSIPATING

2.C ADDITIONAL INFORMATION:

T=CI=3.5+

CLOUD PATTERN HAS CLEARLY IMPROVED WITHIN THE PAST 6 HOURS AND LAST IR IMAGERY DISPLAYS CONVECTION WRAPPING 1 ON LOG 10 SPIRAL.

SYSTEM IS TRACKING SOUTHWESTWARD TOWARDS A WEAKNESS IN THE MID-

TROPOSPHERIC SUBTROPICAL HIGH PRESSURE.

THROUGH TAU 48, THE TRACK IS EXPECTED TO RECURVE PROGRESSIVELY WEST-SOUTH-WESTWARD WITH THE REBUILDING OF THE SUBTROPICAL HIGH PRESSURES FROM THE WEST.

ON SUNDAY, WITH A TROUGH TRANSITING IN ITS SOUTH, THE SYSTEM SHOULD TEMPORARILY TRACK MORE SOUTH-WESTWARD.

ENVIRONMENTAL CONDITIONS ARE GOOD : SST FAVOURABLE, WEAK UPPER LEVEL WINDSHEAR UNDER UPPER LEVEL HIGH PRESSURES AND ESTABLISHED POLEWARD OUTFLOW THROUGH TAU 36.

IRINA IS ALSO EXPECTED TO KEEP ON DEEPENING.

IT SHOULD APPROACH AT 120 TO 150 KM SOUTH OF EUROPA THIS MORNING, PROBABLY AT THE STAGE OF SEVERE TROPICAL STORM.

BEYOND, AS IT SHOULD KEEP ON DEEPENING, IT SHOULD MAKE A LANDFALL AT THE STAGE OF MATURE TROPICAL CYCLONE ON SATURDAY AFTERNOON, ON THE MOZAMBIQUE COASTLINE, PROBABLY BETWEEN POMENE AND MAPUTO.

ON SUNDAY, IT SHOULD TEMPORARILY COME BACK OVER WATER IN THE BAY OF MAPUTO.

NWP MODELS ARE IN GOOD AGREEMENT FOR INLAND DISSIPATION AT THE BEGINNING OF NEXT WEEK.