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

WTIO30 FMEE 050018

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

0.A WARNING NUMBER: 29/11/20112012

1.A SEVERE TROPICAL STORM 11 (IRINA)

2.A POSITION 2012/03/05 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 29.8 S / 34.7 E

(TWENTY NINE DECIMAL EIGHT DEGREES SOUTH AND THIRTY FOUR DECIMAL SEVEN DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-EAST 11 KT

3.A DVORAK ANALYSIS: 3.5/3.5/D 1.0/12 H

4.A CENTRAL PRESSURE: 979 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :22 KM

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

28 KT NE: 70 SE: 280 SW: 200 NW: 70

34 KT NE: 60 SE: 170 SW: 130 NW: 60

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1003 HPA / 500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2012/03/05 12 UTC: 30.2 S / 35.5 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

24H: 2012/03/06 00 UTC: 29.2 S / 36.6 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

36H: 2012/03/06 12 UTC: 28.0 S / 37.1 E, MAX WIND=030 KT, TROPICAL DEPRESSION

48H: 2012/03/07 00 UTC: 27.2 S / 37.1 E, MAX WIND=030 KT, TROPICAL DEPRESSION

60H: 2012/03/07 12 UTC: 26.4 S / 36.5 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

72H: 2012/03/08 00 UTC: 26.0 S / 35.2 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2012/03/09 00 UTC: 26.3 S / 32.7 E, MAX WIND=070 KT, TROPICAL CYCLONE

2.C ADDITIONAL INFORMATION:

T=3.5 AND CI=3.5

IRINA HAS ACCELERATED SOUTH-SOUTH-EASTWARDS OVER THE PAST 18 HOURS. RELATIVE NORTHERLY WINDSHEAR IS THEREFORE WEAKENING ALOFT AND DESPITE A WEAKENED OCEANIC HEAT CONTENT, SYSTEM ORGANIZATION HAS RAPIDLY IMPROVE FROM 1200Z TO 1800Z (REFER TO SSMI F15 04/1402Z AND SSMIS F16 04/1617E).

METEOSAT7 AND MSG2 INFRARED IMAGERY SHOWS AN EYE BETWEEN 1630Z AND 1700Z.

CONVECTION ORGANIZES NOW IN CURVED BAND PATTERN AND BETWEEN 1800Z AND 0000Z, INTENSITY KEEPS ON STABILIZING (REFER TO TRMM 1930Z).

IN RELATIONSHIP WITH THE LARGE EXTENSION OF THE STRONGEST WINDS SOUTHWARD, A 3 METERS TO 5 METERS CYCLONIC SWELL IS ALWAYS BATTERING THE AFRICAN COASTLINES FROM 26S TO 34S WITHIN THE NEXT 24 HOURS.

WITHIN THE NEXT 48 HOURS, SYSTEM IS EXPECTED TO PROGRESSIVELY UNDERGO THE STEERING INFLUENCE OF THE HIGH SUBTROPICAL PRESSURES REBUILDING IN THE SOUTHWEST AND IS THEREFORE EXPECTED TO RECURVE LEFT-HAND.

DESPITE ITS EXPECTED NORTH-EASTWARDS MOTION, IT KEEPS ON SHIFTING OVER MARGINAL OCEANIC CONTENT AND TREND IS THEREFORE TO A REGULAR WEAKENING INTENSITY.

FROM WEDNESDAY 07, ENVIRONMENT SHOULD PROGRESSIVELY IMPROVE (RISING SST AND UPPER LEVEL DIVERGENCE, WEAK WINDSHEAR) AND SYSTEM IS EXPECTED TO CONTINUE ITS LEFT-HAND LOOP MOTION TO FINALLY ADOPT A GLOBALLY WESTWARDS MOTION, THEREFORE INTENSIFYING.

THIS TRACK WILL BRING IRINA BACK CLOSER TO THE AFRICAN COASTLINE.

A LANDFALL ON THURSDAY 08 OR FRIDAY 09 REMAINS HOWEVER HYPOTHETICAL AS A NEW WEAKNESS IN THE SUBTROPICAL BELT SHOULD STEER IRINA SOUTHWARDS AGAIN (REFER TO ECMWF 0000Z AND 1200Z RUNS).

ALL INHABITANTS ALONG AFRICAN COASTLINE BETWEEN 23S AND 30S ARE STILL INVITED TO CLOSELY MONITOR THE PROGRESS OF IRINA.