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

WTIO30 FMEE 040036

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

0.A WARNING NUMBER: 25/11/20112012

1.A MODERATE TROPICAL STORM 11 (IRINA)

2.A POSITION 2012/03/04 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 25.7 S / 34.3 E

(TWENTY FIVE DECIMAL SEVEN DEGREES SOUTH AND THIRTY FOUR DECIMAL  
THREE DEGREES EAST)

MOVEMENT : WEST 3 KT

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

4.A CENTRAL PRESSURE: 985 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

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

28 KT NE: 110 SE: 650 SW: 410 NW: 110

34 KT NE: 60 SE: 110 SW: 130 NW: 60

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

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2012/03/04 12 UTC: 27.5 S / 34.4 E, MAX WIND=045 KT, MODERATE TROPICAL  
STORM

24H: 2012/03/05 00 UTC: 29.3 S / 35.1 E, MAX WIND=045 KT, MODERATE TROPICAL  
STORM

36H: 2012/03/05 12 UTC: 30.1 S / 35.9 E, MAX WIND=045 KT, MODERATE TROPICAL  
STORM

48H: 2012/03/06 00 UTC: 29.7 S / 37.1 E, MAX WIND=045 KT, MODERATE TROPICAL  
STORM

60H: 2012/03/06 12 UTC: 28.8 S / 37.5 E, MAX WIND=040 KT, MODERATE TROPICAL  
STORM

72H: 2012/03/07 00 UTC: 27.6 S / 37.5 E, MAX WIND=035 KT, MODERATE TROPICAL  
STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2012/03/08 00 UTC: 26.5 S / 36.2 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

120H: 2012/03/09 00 UTC: 26.2 S / 33.3 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

2.C ADDITIONAL INFORMATION:

T=3.0 CI=3.5-

THE EYE FEATURE SEEN ON 85/91 HZ MW IMAGERY IS NOT CONSOLIDATING. AMSUB METOP IMAGERY SHOW THIS FEATURE LOCATED TO THE SOUTH OF THE ESTIMATED CENTER GIVEN BY THE ASCAT WINDS. THE SYSTEM IS STILL ON ITS WESTWARDS MOTION AND CONTINUE TO SLOW DOWN. ALL GUIDANCE ARE NOW IN AGREEMENT TO MAKE IRINA SHIFT SOUTHWARDS LATER TODAY ON THE WESTERN EDGE OF THE THE SUBTROPICAL HIGH PRESSURES LOCATED SOUTH OF MADAGASCAR. IF IRINA MAINTAIN ITS CURRENT MOTION, IT COULD MAKE LANDFALL NEAR MAPUTO LATER TODAY. THIS POSSIBILITY, SUGGESTED BY NONE OF THE GUIDANCE, APPEARS AS A VERY LOW PROBABILITY EVENT.

ASSOCIATED WITH THE LARGE FETCH IN THE SOUTHERN SEMI-CIRCLE, A 4 METERS TO 6 METERS CYCLONIC SWELL IS BATTERING THE AFRICAN COASTLINES FROM 24S TO 33S AND SHOULD PERSIST TODAY.

MONDAY, THE SYSTEM IS EXPECTED TO GRADUALLY RECURVE SOUTHEASTWARDS TOWARDS A POLAR TROUGH TRANSITING BETWEEN THE TWO SUBTROPICAL HIGH PRESSURES AREAS. THE ONE LOCATED TO THE EAST IS MOVING EASTWARDS AWAY AND A NEW ONE IS REBUILDING TO THE SOUTHWEST OF IRINA.

TUESDAY AND AFTER, IRINA COULD TRACK NORTHWARDS THEN WESTWARDS UNDER THE STEERING INFLUENCE OF THIS REBUILDING SUBTROPICAL HIGHS.

ALONG IRINA'S SOUTHWARDS MOTION, ENVIRONMENTAL CONDITIONS ARE NEUTRAL (IMPROVING UPPER LEVEL DIVERGENCE TO THE SOUTH, MARGINAL SST) AND THE SYSTEM IS THEREFORE NOT EXPECTED TO INTENSIFY SIGNIFICANTLY.

TUESDAY, UPPER LEVEL CONDITIONS SHOULD DETERIORATE WITH AN INCREASE IN WESTERLY SHEAR.

ON AND AFTER WEDNESDAY 07, AS SYSTEM RECURVES NORTHWESTWARDS THEN WESTWARDS, ENVIRONMENTAL CONDITIONS COULD BECOME BACK FAVOURABLE FOR INTENSIFICATION. THERE IS A STRONG UNCERTAINTY ON THIS ASPECT OF THE FORECAST AND AN ALTERNATE SCENARIO THAT MAY BECOME THE MAIN ONE LATER ON, COULD BE THAT THE SYSTEM WILL NOT RECOVERED FROM THE EXPECTED DETERIORATION OF ENVIRONMENTAL CONDITIONS ON TUESDAY AND COULD THEN TRACK NORTHWESTWARDS AS A WEAKENING SYSTEM.

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