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

0.A WARNING NUMBER: 21/9/20112012

1.A INTENSE TROPICAL CYCLONE 9 (GIOVANNA)

2.A POSITION 2012/02/14 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 19.0 S / 48.8 E

(NINETEEN DECIMAL ZERO DEGREES SOUTH AND FORTY EIGHT DECIMAL EIGHT DEGREES EAST)

MOVEMENT : WEST 12 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 945 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 90 KT

RADIUS OF MAXIMUM WINDS (RMW) :19 KM

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

28 KT NE: 260 SE: 300 SW: 220 NW: 140

34 KT NE: 220 SE: 210 SW: 130 NW: 110

48 KT NE: 160 SE: 90 SW: 70 NW: 50

64 KT NE: 90 SE: 60 SW: 50 NW: 40

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1002 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : UNKNOWN

1.B FORECASTS:

12H: 2012/02/14 12 UTC: 20.4 S / 45.3 E, MAX WIND=025 KT, INLAND

24H: 2012/02/15 00 UTC: 21.4 S / 42.8 E, MAX WIND=030 KT, TROPICAL DEPRESSION

36H: 2012/02/15 12 UTC: 22.7 S / 40.8 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

48H: 2012/02/16 00 UTC: 23.8 S / 39.3 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

60H: 2012/02/16 12 UTC: 24.1 S / 38.7 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

72H: 2012/02/17 00 UTC: 24.8 S / 37.9 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2012/02/18 00 UTC: 26.1 S / 36.7 E, MAX WIND=070 KT, TROPICAL CYCLONE

120H: 2012/02/19 00 UTC: 26.4 S / 37.9 E, MAX WIND=065 KT, TROPICAL CYCLONE

2.C ADDITIONAL INFORMATION:

GIOVANNA HAS MADE LANDFALL NEAR ANDOVORANTO MONDAY 13 AT ABOUT 2200Z.

GUSTS HAS PROBABLY EXCEED 120 KM/H IN AN AREA FROM NOSY-VARIKA IN THE SOUTH TO SAINTE-MARIE ISLAND IN THE NORTH, 150 KM/H FROM MAHANORO IN THE SOUTH TO TOAMASINA IN THE NORTH AND 200 KM/H FROM VAOMANDRY IN THE SOUTH UP TO 50 KM IN THE NORTH OF ANDOVORANTO.

COASTAL FLOODING HAVE PROBABLY OCCURED IN THE SOUTH OF THE LANDFALL UP TO 50 KM SOUTH OF ANDOVORANTO IN RELATIONSHIP WITH THE COMBINED EFFECT OF A STORM SURGE ESTIMATED AT 2.5 TO 3.0 METERS AND A MORE THAN 12M HIGH CYCLONIC SWELL.

THIS AREA HAS PROBABLY UNDERGO WITHIN THE SAME TIME GUSTS FROM 200 TO 250 KM/H

GIOVANNA SHOULD BE BACK OVER SEA IN THE MOZAMBIQUE CHANNEL LATE TUESDAY OR EARLY WEDNESDAY WITHIN A FAVOURABLE ATMOSPHERIC ENVIRONMENT WITH A DECREASING EASTERLY SHEAR AS THE SYSTEM WILL MOVE CLOSER TO AN UPPER LEVEL RIDGE. LATEST ECMWF RUN SUGGESTS A RAPID RE-INTENSIFICATION THAT IS REFLECTED BY THE OFFICIAL RSMC FORECAST. ON AND AFTER TAU 84 SYSTEM IS EXPECTED TO RECURVE SOUTHWARDS THEN SOUTHEASTWARDS TOWARDS A MID-LATITUDES TROUGH TRANSITING IN ITS SOUTH.