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

0.A WARNING NUMBER: 7/9/20112012

1.A INTENSE TROPICAL CYCLONE 9 (GIOVANNA)

2.A POSITION 2012/02/10 AT 1800 UTC:

WITHIN 10 NM RADIUS OF POINT 16.1 S / 61.0 E

(SIXTEEN DECIMAL ONE DEGREES SOUTH AND SIXTY ONE DECIMAL ZERO DEGREES EAST)

MOVEMENT : SOUTH-WEST 8 KT

3.A DVORAK ANALYSIS: 6.0/6.0/D 1.5/6 H

4.A CENTRAL PRESSURE: 939 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 100 KT

RADIUS OF MAXIMUM WINDS (RMW) :15 KM

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

28 KT NE: 170 SE: 170 SW: 260 NW: 220

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

48 KT NE: 40 SE: 40 SW: 40 NW: 40

64 KT NE: 30 SE: 30 SW: 30 NW: 30

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1004 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2012/02/11 06 UTC: 17.2 S / 59.6 E, MAX WIND=110 KT, INTENSE TROPICAL CYCLONE

24H: 2012/02/11 18 UTC: 18.2 S / 58.3 E, MAX WIND=110 KT, INTENSE TROPICAL CYCLONE

36H: 2012/02/12 06 UTC: 17.6 S / 56.9 E, MAX WIND=100 KT, INTENSE TROPICAL CYCLONE

48H: 2012/02/12 18 UTC: 17.4 S / 55.0 E, MAX WIND=090 KT, INTENSE TROPICAL CYCLONE

60H: 2012/02/13 06 UTC: 17.5 S / 52.7 E, MAX WIND=080 KT, TROPICAL CYCLONE

72H: 2012/02/13 18 UTC: 17.6 S / 50.5 E, MAX WIND=070 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK :

96H: 2012/02/14 18 UTC: 18.5 S / 45.1 E, MAX WIND=020 KT, INLAND

120H: 2012/02/15 18 UTC: 20.8 S / 41.8 E, MAX WIND=030 KT, TROPICAL DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=6.0

GIOVANNA HAS UNDERGONE EXPLOSIVE DEEPENING SINCE THE AFTERNOON WITH

IMPRESSIVE MICRO-WAVE SIGNATURE OF SMALL SIZED EYEWALL. THIS RAPID INTENSIFICATION IS CURRENTLY CONTINUING.

THIS VERY FAST INTENSIFICATION MAY HAVE RESULTED IN A SHIFTING OF PREVAILING STEERING FLOW ABOVE 500HPA. WITH A MORE NORTH-SOUTH ORIENTED SHAPE OF THE WESTERN BOUNDARY OF THE UPPER HIGH RIDGE SITUATED TO THE EAST OF THE STORM. THIS MAY RESULT INTO A MORE MERIDIAN-LIKE TRAJECTORY IN THE NEXT 24 HOURS THAN INITIALLY EXPECTED, WITH A SHARPER TURN AFTERWARDS WHEN THE BAROMETRIC COL TO THE SOUTH WILL WITHDRAW TOWARDS THE EAST BY TAU 30H.

THEN THE TRACK SHOULD RECURVE WESTWARD WITH THE REBUILDING OF HIGH PRESSURES SOUTH-EAST OF MADAGASCAR.

ENVIRONMENTAL CONDITIONS SHOULD REMAIN VERY FAVOURABLE UP TO SATURDAY WITH A GOOD POLEWARD OUTFLOW CHANNEL, BUT INTENSITY SHOULD PROBABLY FLUCTUATE WITHIN THIS PERIOD.

ON SUNDAY, THE SYSTEM SHOULD LOSE ITS POLEWARD OUTFLOW CHANNEL. ON MONDAY AND AFTER, GIOVANNA SHOULD UNDERGO A WEAK TO MODERATE EASTERLY VERTICAL WIND SHEAR ON THE NORTHERN SIDE OF REBUILDING UPPER LEVEL HIGH PRESSURES. SO SYSTEM IS EXPECTED TO WEAKEN BEFORE THE LANDFALL ON THE EASTERN COAST OF MADAGASCAR, AT THE END OF NIGHT BETWEEN MONDAY AND TUESDAY. THE RESIDUAL CENTRE SHOULD COME BACK OVER SEAS IN THE MOZAMBIQUE CHANNEL ON WEDNESDAY WITHIN A FAVOURABLE ENVIRONMENT FOR REGENERATION.