



Direction Interrégionale de La Réunion
BP 4
97491 Ste Clotilde Cedex
Tel: 0262 92 11 00
Fax exploitation: 0262 92 11 48
Fax direction: 0262 92 11 47



METEO FRANCE
Toujours un temps d'avance

WTIO30 FMEE 180050

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

0.A WARNING NUMBER: 37/9/20112012

1.A SEVERE TROPICAL STORM 9 (GIOVANNA)

2.A POSITION 2012/02/18 AT 0000 UTC:

WITHIN 15 NM RADIUS OF POINT 26.5 S / 43.2 E

(TWENTY SIX DECIMAL FIVE DEGREES SOUTH AND FORTY THREE DECIMAL TWO DEGREES EAST)

MOVEMENT : SOUTH-EAST 4 KT

3.A DVORAK ANALYSIS: 4.0/4.0/D 0.5/6 H

4.A CENTRAL PRESSURE: 978 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 55 KT

RADIUS OF MAXIMUM WINDS (RMW) :52 KM

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

28 KT NE: 190 SE: 220 SW: 220 NW: 170

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

48 KT NE: 80 SE: 80 SW: 80 NW: 80

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1005 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2012/02/18 12 UTC: 26.6 S / 44.8 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

24H: 2012/02/19 00 UTC: 26.2 S / 46.7 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

36H: 2012/02/19 12 UTC: 25.8 S / 49.0 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

48H: 2012/02/20 00 UTC: 25.5 S / 50.3 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

60H: 2012/02/20 12 UTC: 25.3 S / 51.2 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

72H: 2012/02/21 00 UTC: 25.2 S / 51.9 E, MAX WIND=030 KT, TROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2012/02/22 00 UTC: 25.0 S / 53.2 E, MAX WIND=020 KT, DISSIPATING

2.C ADDITIONAL INFORMATIONS:

T=4.0 CI=4.0

GIOVANNA KEEPS ON INTENSIFYING AND NOW SHOW A RAGGED EYE PATTERN WITH A RAUW MANUAL DT AT 4.5. PRESENT INTENSITY ESTIMATION IS BASED ON DT 6 HOURS AVERAGE (DT INTERPOLATED DURING MET7 ECLIPSE PERIOD ACCORDING TO MSG IMAGERY). UPPER LEVEL DIVERGENCE IS EXCELLENT TO THE SOUTH WITH ENHANCED OUTFLOW ON THE NORTHERN EDGE OF THE SUBTROPICAL

RIDGE BUT RATHER LIMITED TO THE NORTH.

GIOVANNA IS STILL LOCATED BETWEEN TWO MID LEVEL HIGHS GENERATING CONTRADICTORY STEERING FLOWS OVER THE SYSTEM. TOMORROW, THE EASTERN RIDGE IS LIKELY TO SHIFT GRADUALLY EASTWARDS AND GIOVANNA SHOULD BE STEERED BY AN WESTERLY TO WESTNORTHWESTERLY FLOW ON THE SOUTHEASTERN BORDER OF THE MID LEVEL HIGHS LOCATED OVER SOUTH AFRICA AND ON THE NORTHERN EDGE OF THE MIDLAT WESTERLIES. ON THIS PATTERN, THE SYSTEM SHOULD GRADUALLY ACCELERATE ON A EASTWARDS TO EASTNORTHEASTWARDS TRACK. BEYOND SUNDAY NIGHT, GUIDANCE ARE STILL IN POOR AGREEMENT WITH TWO POSSIBILITIES: A CONTINUING EASTWARDS TRACK OR A RATHER SHARP NORTHWARDS TURN ALONG THE SOUTHEASTERN COASTS OF MADAGASCAR. LATEST ECMWF ENSEMBLE OUTPUT GIVE A STRONGER WEIGHT TO THE EASTWARDS SOLUTION ... SO IS THE CURRENT FORECAST.

ENVIRONMENTALS CONDITIONS SHOULD CONTINUE TO IMPROVE TODAY WITH A BETTER OUTFLOW EQUATORWARD. THE INTENSITY FORECAST IS A LITTLE BIT MORE AGGRESSIVE BUT COULD BE SOMEWHAT CONSERVATIVE AS IT REMAINS BELOW THE ALADIN AND ECMWF SOLUTION THAT BRING GIOVANNA TO THE TROPICAL CYCLONE LEVEL ...

MONDAY AND AFTER, ENVIRONMENTAL CONDITIONS ARE EXPECTED TO DETERIORATE WITH LOWER UPPER LEVEL DIVERGENCE, STRONGER SHEAR AND A LOW TO MID-LEVEL DRY AIR INTRUSION FROM THE SOUTHWEST ASSOCIATED TO A SURGE OF SUBTROPICAL HIGH PRESSURE.

INHABITANTS OF SOUTHERN MALAGASY AREAS ARE INVITED TO CLOSELY FOLLOW THE PROGRESS OF THIS SYSTEM: IF THE CURRENT FORECAST LEAVE THE SYSTEM MORE OFFSHORE THAN PREVIOUSLY, A LANDFALL OF GIOVANNA, MAINLY OVER COASTAL AREAS BETWEEN CAP SAINTE-MARIE AND FORT-DAUPHIN , STILL CANNOT BE RULED OUT SATURDAY NIGHT OR SUNDAY ! REGARDLESS OF THIS POTENTIAL LANDFALL, WEATHER CONDITIONS SHOULD DETERIORATE OVER THIS AREA LATER TODAY OR TONIGHT WITH STRONG WINDS (GUSTS UP TO 100 KM/H) AND HEAVY RAINS SPELLS.