



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



WTIO30 FMEE 281227

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

0.A WARNING NUMBER: 10/7/20122013

1.A MODERATE TROPICAL STORM 7 (FELLENG)

2.A POSITION 2013/01/28 AT 1200 UTC:

WITHIN 30 NM RADIUS OF POINT 13.2 S / 58.3 E

(THIRTEEN DECIMAL TWO DEGREES SOUTH AND FIFTY EIGHT DECIMAL THREE DEGREES EAST)

MOVEMENT : WEST 8 KT

3.A DVORAK ANALYSIS: 2.5/2.5/D 0.5/12 H

4.A CENTRAL PRESSURE: 996 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 35 KT

RADIUS OF MAXIMUM WINDS (RMW) :65 KM

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

28 KT NE: 330 SE: 300 SW: 190 NW: 150

34 KT NE: 110 SE: 110 SW: 70 NW: 70

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 800 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2013/01/29 00 UTC: 13.4 S / 57.0 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

24H: 2013/01/29 12 UTC: 14.0 S / 55.5 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

36H: 2013/01/30 00 UTC: 15.1 S / 54.0 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

48H: 2013/01/30 12 UTC: 16.3 S / 52.8 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

60H: 2013/01/31 00 UTC: 17.7 S / 52.1 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

72H: 2013/01/31 12 UTC: 19.4 S / 51.7 E, MAX WIND=070 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK :

96H: 2013/02/01 12 UTC: 21.8 S / 52.0 E, MAX WIND=090 KT, INTENSE TROPICAL CYCLONE

120H: 2013/02/02 12 UTC: 23.7 S / 52.1 E, MAX WIND=085 KT, TROPICAL CYCLONE

2.C ADDITIONAL INFORMATION:

T=2.5+, CI=2.5+.

SYSTEM KEEPS ON MOVING GENERALLY WESTWARDS ON THE NORTH-WESTERN EDGE OF THE LOW LEVEL SUBTROPICAL HIGH PRESSURES.

AVAILABLE SCATTEROMETRY DATA AT 0724Z OSCAT SWATH SUGGEST A FIELD OF WIND BECOMING LESS ASSYMETRICAL, WITH ALWAYS A GOOD FEEDING MONSOON FLOW.

AVAILABLE NWP MODELS ARE IN RATHER GOOD AGREEMENT ABOUT THE FORECAST TRACK AT SHORT RANGE. SYSTEM IS EXPECTED TO KEEP A WEST-SOUTH-WESTWARDS TRACK OVER THE NEXT 24/36 HOURS.

ON THIS FORECAST TRACK, THE WEAK TO MODERATE SOUTHEASTERLY TO SOUTHERLY VERTICAL WIND-SHEAR IS EXPECTED TO LIMITED INTENSIFICATION WITHIN THE NEXT 24 TO 36 HOURS. THEN, ENVIRONMENTAL CONDITIONS IMPROVE PROGRESSIVELY IN RELATIONSHIP WITH THE WEAKENING VERTICAL WIND-SHEAR AND WITH A SECOND UPPER LEVEL OUTFLOW BUILDING POLEWARD ON AND AFTER THURSDAY. LOW LEVEL CONVERGENCE REMAINS VERY GOOD WITHIN THE SAME PERIOD, ON THE BOTH SIDES.

ENVIRONMENTAL CONDITIONS ARE THEN VERY FAVOURABLE FOR FURTHER INTENSIFICATION. HOWEVER, THE VICINITY OF THE MALGASY COASTLINE SHOULD BE A LIMITED FACTOR.

ON AND AFTER WEDNESDAY, SYSTEM IS THEN EXPECTED TO UNDERGO THE NORTHERLY STEERING INFLUENCE OF THE MID-LEVEL RIDGE IN ITS EAST AND TO TRACK SOUTHWARDS.

GIVEN ALL THE ABOVE, UNHABITANTS OF EASTERN MALAGASY COASTLINE SHOULD CLOSELY MONITOR THE PROGRESS OF THIS SYSTEM.