



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 280637

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

0.A WARNING NUMBER: 9/7/20122013

1.A MODERATE TROPICAL STORM 7 (FELLENG)

2.A POSITION 2013/01/28 AT 0600 UTC:

WITHIN 30 NM RADIUS OF POINT 13.0 S / 59.6 E

(THIRTEEN DECIMAL ZERO DEGREES SOUTH AND FIFTY NINE DECIMAL SIX DEGREES EAST)

MOVEMENT : WEST-NORTH-WEST 7 KT

3.A DVORAK ANALYSIS: 2.5/2.5/D 0.5/24 H

4.A CENTRAL PRESSURE: 998 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :46 KM

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

28 KT NE: 310 SE: 280 SW: 90 NW: 130

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

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

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2013/01/28 18 UTC: 13.4 S / 57.1 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

24H: 2013/01/29 06 UTC: 13.8 S / 55.1 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

36H: 2013/01/29 18 UTC: 14.4 S / 53.7 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

48H: 2013/01/30 06 UTC: 15.4 S / 52.4 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

60H: 2013/01/30 18 UTC: 16.4 S / 51.6 E, MAX WIND=065 KT, TROPICAL CYCLONE

72H: 2013/01/31 06 UTC: 18.5 S / 51.0 E, MAX WIND=075 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK :

96H: 2013/02/01 06 UTC: 21.6 S / 50.3 E, MAX WIND=095 KT, INTENSE TROPICAL CYCLONE

120H: 2013/02/02 06 UTC: 24.1 S / 50.5 E, MAX WIND=090 KT, INTENSE 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.
THIS NIGHT AVAILABLE SCATTEROMETRY DATA ARE VERY PARTIAL BUT 0442Z
ASCAT SWATH SUGGEST HOWEVER THAT GALE FORCE WINDS EXIST IN THE
EASTERN SEMI-CIRCLE. LOW LEVEL CIRCULATION HAS IMPROVE ON LAST TRMM
DATA 0224Z.SO THE SYSTEM HAS BEEN NAMED.

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 36/48 HOURS.

ON THIS FORECAST TRACK, THE MODERATE EAST-SOUTHEASTERLY VERTICAL
WIND-SHEAR IS EXPECTED TO LIMITED INTENSIFICATION WITHIN THE NEXT 12
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.