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**METEO FRANCE**

WTIO30 FMEE 120045

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

0.A WARNING NUMBER: 11/4/20152016

1.A MODERATE TROPICAL STORM 4 (DAYA)

2.A POSITION 2016/02/12 AT 0000 UTC:

WITHIN 30 NM RADIUS OF POINT 29.3 S / 56.3 E

(TWENTY NINE DECIMAL THREE DEGREES SOUTH AND FIFTY SIX DECIMAL THREE DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-EAST 17 KT

3.A DVORAK ANALYSIS: 2.0/2.5/W 0.5/24 H

4.A CENTRAL PRESSURE: 993 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :NIL

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

28 KT NE: 430 SE: 480 SW: 0 NW: 110

34 KT NE: 110 SE: 220 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1000 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2016/02/12 12 UTC: 33.1 S / 57.7 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

24H: 2016/02/13 00 UTC: 37.5 S / 60.3 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

36H: 2016/02/13 12 UTC: 41.4 S / 65.7 E, MAX WIND=040 KT, EXTRATROPICAL SYSTEM

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

T=2.0+ CI=2.5+

THE CLOUD PATTERN IS A SHEAR PATTERN WITH THE CENTER LOCATED ON THE WESTERN EDGE OF THE DEEP CONVECTION ON IR IMAGERY. MW (AMSU-B OF 1805Z,

2220Z AND SSMI AT 2208Z) REVEAL AN EXPOSED CENTER. PREVIOUS VERY PARTIAL ASCAT DATA SUGGEST THAT SOME MINIMAL GALE FORCE WINDS IS STILL EXISTING WITHIN THE EASTERN SEMI-CIRCLE.

THE ENVIRONMENTAL CONDITIONS BECOME REALLY UNFAVOURABLE WITH COOL SST AND STRONG VWS ASSOCIATED WITH INCREASING WESTERLIES. THE POST-TROPICAL STATUS IS EXPECTED LATER TODAY AND LIKELY WITHIN THE NEXT 6 HOURS.

THE EVACUATION OF THE SYSTEM TOWARDS THE MID-LATITUDE IS STEERED BY BOTH A CUT-OFF LOW IN THE SOUTH-WEST AND A HIGH GEOPOTENTIAL AREA IN THE EAST. UNDER THE JOINED INFLUENCE OF THESE TWO SYNOPTIC STRUCTURES, THE AVAILABLE NWP MODELS STILL FORECAST SIMILAR SOUTH-EAST TRACKS WITH MORE SPREAD THIS WEEK-END DUE TO DIFFERENT FORWARD MOTION .

LAST WARNING ON THIS SYSTEM. PLEASE REFER TO FQIO20 BULLETIN ISSUED TWICE DAILY (06 UTC AND 18 UTC) FOR FURTHER INFORMATION.