



Direction Interrégionale pour l'Océan Indien
50, Boulevard du Chaudron
97490 Sainte-Clotilde
Tél : 0262 92 11 00
Fax Exploitation : 0262 92 11 48
Fax Direction : 0262 92 11 47



METEO FRANCE

WTIO30 FMEE 171908

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

0.A WARNING NUMBER: 27/8/20152016

1.A VERY INTENSE TROPICAL CYCLONE 8 (FANTALA)

2.A POSITION 2016/04/17 AT 1800 UTC:

WITHIN 10 NM RADIUS OF POINT 9.8 S / 50.8 E

(NINE DECIMAL EIGHT DEGREES SOUTH AND FIFTY DECIMAL EIGHT DEGREES EAST)

MOVEMENT : WEST-NORTH-WEST 10 KT

3.A DVORAK ANALYSIS: 7.5/7.5/D 1.0/6 H

4.A CENTRAL PRESSURE: 910 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 135 KT

RADIUS OF MAXIMUM WINDS (RMW) :20 KM

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

28 KT NE: 110 SE: 300 SW: 370 NW: 190

34 KT NE: 80 SE: 130 SW: 180 NW: 100

48 KT NE: 60 SE: 90 SW: 110 NW: 70

64 KT NE: 60 SE: 60 SW: 70 NW: 60

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 300 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2016/04/18 06 UTC: 9.6 S / 49.5 E, MAX WIND=125 KT, VERY INTENSE TROPICAL CYCLONE

24H: 2016/04/18 18 UTC: 9.8 S / 49.0 E, MAX WIND=095 KT, INTENSE TROPICAL CYCLONE

36H: 2016/04/19 06 UTC: 10.2 S / 49.4 E, MAX WIND=085 KT, TROPICAL CYCLONE

48H: 2016/04/19 18 UTC: 10.8 S / 50.3 E, MAX WIND=085 KT, TROPICAL CYCLONE

60H: 2016/04/20 06 UTC: 11.7 S / 52.0 E, MAX WIND=090 KT, INTENSE TROPICAL CYCLONE

72H: 2016/04/20 18 UTC: 13.0 S / 53.4 E, MAX WIND=095 KT, INTENSE TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK :

96H: 2016/04/21 18 UTC: 15.5 S / 55.4 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

120H: 2016/04/22 18 UTC: 16.3 S / 56.6 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

2.C ADDITIONAL INFORMATION:

T=7.5- CI=7.5

FANTALA MADE HISTORY (THE SWIO ONE'S) THIS EVENING. THE SATELLITE PRESENTATION WAS AT 7.5 FROM 13 UTC TO 17 UTC (MET-7 IMAGERY) AND AT 7.0 SINCE 1730 UTC. 3H MEAN RAW DT IS AT 7.5 AT 16 UTC AND 1630 UTC. THE CLOUD PATTERN IS IMPRESSIVE WITH A WELL DEFINED EYE EMBEDDED WITHIN AN INCREASINGLY SYMMETRIC COLD CLOUD MASS. NEAR 15 UTC, THE EYE OF FANTALA PASSED DIRECTLY OVER THE MAIN ISLANDS OF FARQUAHR .. CURRENTLY THE EYEWALL IS PASSING JUST OFF THE SOUTH-WESTERN COASTS OF CERF AND SAINT-PIERRE ISLANDS LOCATED TO THE NORTH OF THE MAIN ISLANDS FARQUAHR.

THE SYSTEM CONTINUES ITS WEST-NORTH-WESTWARDS TRACK OVER THE NORTHERN AND NORTHEASTERN SIDE OF A HIGH GEOPOTENTIAL CELL LOCATED SOUTH OF MADAGASCAR, WITH A RIDGE AXIS OVER MADAGASCAR. TOMORROW, THIS CELL IS FORECASTED TO SHIFT PROGRESSIVELY EASTWARD AND LEAVE ROOM FOR A MID-LATITUDE TROUGH. FANTALA SHOULD BE LOCATED WITHIN A COL WITH OPPOSITE STEERING FLOWS. SO, FANTALA IS FORECAST TO BEGIN TO SLOW DOWN WITHIN THE NEXT 24 HOURS. MONDAY NIGHT, FANTALA SHOULD STOP ITS NORSTWESTWARD TRACK AND BEGIN A SHARP TURN TOWARD THE SOUTHEAST UNDER THE NORTHEASTERN STEERING FLOW OF A BUILDING MID-LEVEL NEAR-EQUATORIAL RIDGE.

GIVENT THE ONGOING TREND, THE POINT OF RECURVING HAS AGAIN SHIFT WESTWARDS ... AND IT MAY BE BE POSSIBLE THAT IT COULD EVEN BE MORE TO THE WEST ... CLOSE TO THE COSMOLEDO AND ASTOVE ISLANDS (SEYCHELLES) LOCATED TO THE EAST-SOUTH-EAST OF ALDABRA.

FROM TUESDAY, FANTALA SHOULD CONTINUE ITS SOUTHEASTWARD TRAJECTORY UNDER THE TWICE INFLUENCE OF THE NEAR-EQUATORIAL RIDGE LOCATED TO THE NORTH-EAST AND AHEAD A WIDE MID-LATITUDE TROUGH.

THE UPPER LEVEL CONDITIONS REMAIN ALWAYS CONDUCIVE UP TO TUESDAY. FANTALA TAKES BENEFIT FROM A WEAK VERTICAL WIND SHEAR. THE DIVERGENCE IS VERY GOOD AND SEVERAL FAST SHORT WAVE UPPER LEVEL TROUGH SHOULD TRANSIT SOUTH OF THE SYSTEM AND EVEN TEMPORALLY INCREASE THE POLERWARD OUTFLOW. ONLY SELF INDUCED SST COOLING AND EYEWALL REPLACEMENT CYCLE COULD WEAKEN THE SYSTEM.

WEDNESDAY, WITH THE ARRIVAL OF A DEEPER UPPER LEVEL TROUGH, THE UPPER LEVEL CONDITIONS SHOULD PROGRESSIVELY BECOME LESS FAVOURABLE WITH A GRADUAL INCREASING NORTHWESTWARD VERTICAL WIND SHEAR. FANTALA SHOULD BEGIN A WEAKENING PHASE MORE SIGNIFICANTLY UP TO THURSDAY.