



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 161917

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

0.A WARNING NUMBER: 6/6/20152016

1.A TROPICAL CYCLONE 6 (EMERAUDE)

2.A POSITION 2016/03/16 AT 1800 UTC:

WITHIN 20 NM RADIUS OF POINT 10.5 S / 84.4 E

(TEN DECIMAL FIVE DEGREES SOUTH AND EIGHTY FOUR DECIMAL FOUR DEGREES EAST)

MOVEMENT : WEST-NORTH-WEST 2 KT

3.A DVORAK ANALYSIS: 5.0/5.0/D 2.5/24 H

4.A CENTRAL PRESSURE: 967 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 80 KT

RADIUS OF MAXIMUM WINDS (RMW) :9 KM

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

28 KT NE: 60 SE: 80 SW: 80 NW: 80

34 KT NE: 50 SE: 60 SW: 60 NW: 60

48 KT NE: 40 SE: 40 SW: 40 NW: 40

64 KT NE: 20 SE: 20 SW: 20 NW: 20

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1008 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2016/03/17 06 UTC: 10.5 S / 84.1 E, MAX WIND=090 KT, INTENSE TROPICAL CYCLONE

24H: 2016/03/17 18 UTC: 10.7 S / 84.0 E, MAX WIND=090 KT, INTENSE TROPICAL CYCLONE

36H: 2016/03/18 06 UTC: 10.8 S / 84.8 E, MAX WIND=110 KT, INTENSE TROPICAL CYCLONE

48H: 2016/03/18 18 UTC: 11.3 S / 86.1 E, MAX WIND=110 KT, INTENSE TROPICAL CYCLONE

60H: 2016/03/19 06 UTC: 11.7 S / 87.3 E, MAX WIND=110 KT, INTENSE TROPICAL CYCLONE

72H: 2016/03/19 18 UTC: 12.3 S / 88.2 E, MAX WIND=105 KT, INTENSE TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK :

96H: 2016/03/20 18 UTC: 14.3 S / 88.9 E, MAX WIND=085 KT, TROPICAL CYCLONE

120H: 2016/03/21 18 UTC: 15.7 S / 86.4 E, MAX WIND=070 KT, TROPICAL CYCLONE

2.C ADDITIONAL INFORMATION:

T=5.0- CI=5.0+

THE SYSTEM HAS SHOWN A FAIRLY WELL DEFINED EYE PATTERN DURING A FEW HOURS JUST AFTER 12 UTC. SINCE THAT TIME, THE PATTERN IS LITTLE LESS DEFINED WITH A COOLING EYE ASSOCIATED WITH A THICKENING OF THE UPPER LEVEL CLOUDS. THE CURRENT INTENSITY IS BASED ON SUBJECTIVE DVORAK ANALYSIS THAT IS IN GOOD AGREEMENT AT 18Z.

EMERAUDE IS AN EXTREMELY COMPACT SYSTEM AS PORTRAYED BY ASCAT-A DATA OF 1625Z.

EMERAUDE IS STILL DRIFTING GENERALLY WESTWARDS BUT IS STILL EXPECTED TO TURN GRADUALLY EASTWARDS UNDER THE STEERING FLOW OF A NEAR EQUATORIAL RIDGE BUILDING IN ITS NORTH-EAST. DURING THE WEEK-END, THE TRACK SHOULD TURN SOUTHWARDS THEN SOUTHWESTWARDS AS A STR SHOULD GRADUALLY BUILD SOUTH OF THE SYSTEM. GLOBAL MODELS ARE NOT IN GOOD AGREEMENT AND DIFFER SOMETIMES STRONGLY ON WHEN AND WHERE THE TRACK SHOULD CHANGE. THE CURRENT FORECAST IS BASED ON A MEAN TRACK BETWEEN THE MAIN NUMERICAL MODELS GFS, UK AND THE EURO.

ON THIS TRACK, ENVIRONMENTAL CONDITIONS WILL REMAIN MOSTLY CONDUCIVE DURING MOST OF THE FORECAST PERIOD, UNDER AN UPPER LEVEL RIDGE AND WITH AN EVEN BETTER UPPER LEVEL DIVERGENCE POLEWARDS DUE TO THE REMOTE EFFECT OF A TRANSIENT UPPER LEVEL TROUGH THURSDAY AND FRIDAY. THE ENVIRONMENT COULD BE A LITTLE LESS CONDUCIVE LATER THIS WEEK-END ESSENTIALLY DUE TO AN INCREASE IN NORTHERLY VWS. THE FORECAST INTENSITY IS REDUCED A LITTLE COMPARED TO THE PREVIOUS ONE DUE TO THE FACT THAT ON THE CURRENT FORECAST TRACK, THE SYSTEM COULD PASS OVER SELF-INDUCED COOL WATERS. MOREOVER, THE INTERNAL DYNAMICS, SUCH AS EYEWALL REPLACEMENT CYCLE, COULD REDUCE THE INTENSIFICATION RATE. GIVEN THE SMALL SIZE OF THE SYSTEM, RAPID VARIATION (INCLUDING RAPID INTENSIFICATION AND RAPID DECAY) ARE LIKELY, BRINGING UNCERTAINTIES IN THE FORECAST.