

WTIO30 FMEE 051827

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

0.A WARNING NUMBER: 15/6/20172018

1.A TROPICAL CYCLONE 6 (DUMAZILE)

2.A POSITION 2018/03/05 AT 1800 UTC:

WITHIN 20 NM RADIUS OF POINT 22.9 S / 52.1 E

(TWENTY TWO DECIMAL NINE DEGREES SOUTH AND FIFTY TWO DECIMAL ONE
DEGREES EAST)

MOVEMENT : SOUTH-EAST 9 KT

3.A DVORAK ANALYSIS: 5.0/5.5/W 0.5/12 H

4.A CENTRAL PRESSURE: 960 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 85 KT

RADIUS OF MAXIMUM WINDS (RMW) :46 KM

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

28 KT NE: 460 SE: 500 SW: 370 NW: 280

34 KT NE: 280 SE: 330 SW: 260 NW: 190

48 KT NE: 190 SE: 200 SW: 190 NW: 110

64 KT NE: 110 SE: 110 SW: 110 NW: 90

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 1300 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/03/06 06 UTC: 24.5 S / 53.2 E, MAX WIND=075 KT, TROPICAL CYCLONE

24H: 2018/03/06 18 UTC: 25.9 S / 54.4 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

36H: 2018/03/07 06 UTC: 27.5 S / 55.4 E, MAX WIND=050 KT, POST-TROPICAL
DEPRESSION

48H: 2018/03/07 18 UTC: 28.9 S / 56.1 E, MAX WIND=050 KT, POST-TROPICAL
DEPRESSION

60H: 2018/03/08 06 UTC: 30.1 S / 57.8 E, MAX WIND=045 KT, POST-TROPICAL
DEPRESSION

72H: 2018/03/08 18 UTC: 32.7 S / 60.4 E, MAX WIND=045 KT, POST-TROPICAL
DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2018/03/09 18 UTC: 40.0 S / 63.8 E, MAX WIND=050 KT, EXTRATROPICAL
DEPRESSION

2.C ADDITIONAL INFORMATION:

T=5.0- CI=5.5-

OVER THE LAST SIX HOURS, DUMAZILE CLOUD PATTERN BARELY EVOLVED. RAW DVORAK ANALYSIS ARE MOSTLY OSCILLATING BETWEEN 4.5 AND 5.0. THE CONSECUTIVE MICRO-WAVE IMAGES EXHIBIT THE UNDERGOING DETERIORATION OF THE INTERNAL STRUCTURE IN THE NORTH-WESTERN SEMI-CIRCLE. THIS EVOLUTION IS COHERENT WITH THE INCREASE OF THE NORTH-WESTERLY VERTICAL WIND SHEAR, ANALYSED AT 15Z AROUND 15KT BY CIMSS.

THE SYSTEM IS EXPECTED TO KEEP ON ITS TRACK SOUTH-EASTWARD CIRCUMVENTING THE MID-LEVEL RIDGE. THURSDAY EVENING, A MID-LATITUDES TROUGH CIRCULATING IN THE SOUTH SHOULD ALLOW A QUICK EVACUATION. THE MODEL DISPERSION REMAINS RATHER WEAK, WHICH GIVES A GOOD CONFIDENCE IN THIS TRACK FORECAST. THE UNCERTAINTY INCREASES FOR THE END OF THE FORECAST PERIOD, WHEN THE SYSTEM IS TAKEN AWAY BY THE MID-LATITUDES WESTERLIES.

TONIGHT, THE ARRIVAL OF AN UPPER TROUGH FROM THE WEST WILL DRIVE THE STRENGTHENING WESTERLY TO NORTHWESTERLY UPPER CONSTRAINT. THIS SIGNIFICANT DETERIORATION OF THE ENVIRONMENTAL CONDITIONS SHOULD ACCELERATE THE WEAKENING TOMORROW. WITHIN A MORE AND MORE BAROCLINIC ENVIRONMENT, OVER COOLER WATERS SOUTH OF 27S, THE SYSTEM SHOULD BEGIN TO GAIN EXTRA-TROPICAL FEATURES FROM WEDNESDAY.