

WTIO30 FMEE 050022

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

0.A WARNING NUMBER: 12/6/20172018

1.A TROPICAL CYCLONE 6 (DUMAZILE)

2.A POSITION 2018/03/05 AT 0000 UTC:

WITHIN 25 NM RADIUS OF POINT 20.1 S / 50.7 E

(TWENTY DECIMAL ONE DEGREES SOUTH AND FIFTY DECIMAL SEVEN DEGREES EAST)

MOVEMENT : SOUTH 8 KT

3.A DVORAK ANALYSIS: 5.0/5.0/D 0.5/6 H

4.A CENTRAL PRESSURE: 965 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 75 KT

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

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

28 KT NE: 460 SE: 460 SW: 330 NW: 220

34 KT NE: 220 SE: 280 SW: 220 NW: 150

48 KT NE: 140 SE: 170 SW: 140 NW: 110

64 KT NE: 70 SE: 80 SW: 70 NW: 60

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 1100 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/03/05 12 UTC: 22.2 S / 50.9 E, MAX WIND=085 KT, TROPICAL CYCLONE

24H: 2018/03/06 00 UTC: 23.8 S / 51.6 E, MAX WIND=080 KT, TROPICAL CYCLONE

36H: 2018/03/06 12 UTC: 25.4 S / 52.8 E, MAX WIND=065 KT, TROPICAL CYCLONE

48H: 2018/03/07 00 UTC: 26.9 S / 53.8 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

60H: 2018/03/07 12 UTC: 28.6 S / 55.1 E, MAX WIND=050 KT, POST-TROPICAL
DEPRESSION

72H: 2018/03/08 00 UTC: 30.0 S / 56.9 E, MAX WIND=045 KT, POST-TROPICAL
DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2018/03/09 00 UTC: 35.6 S / 61.1 E, MAX WIND=045 KT, POST-TROPICAL
DEPRESSION

120H: 2018/03/10 00 UTC: 46.2 S / 66.8 E, MAX WIND=045 KT, EXTRATROPICAL
DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=5.0-

OVER THE LAST 6 HOURS, THE CURVED BAND CLOSED ITSELF AROUND THE CIRCULATION CENTER AND A WARM SPOT APPEARED IN THE MIDDLE OF VERY COLD CLOUD TOPS. ON THE LAST IR IMAGES, THE EYE PATTERN TENDS TO BECOME CLEARER.

AS DUMAZILE CIRCUMVENTS THE WESTERN REGION OF A MID-LEVEL RIDGE, ITS HAS BENT SOUTH OVERNIGHT AND SHOULD CONTINUE TO TURN SOUTH-SOUTH-EASTWARD TODAY. 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.

THE UPPER DIVERGENCE IS STILL EXCELLENT. DUMAZILE WILL TRACK WITHIN VERY CONDUCTIVE CONDITIONS FOR ITS INTENSIFICATION UNTIL THIS AFTERNOON. TONIGHT, THE ARRIVAL OF AN UPPER TROUGH FROM THE WEST WILL DRIVE A STRENGTHENING WESTERLY TO NORTHWESTERLY WINDSHEAR CONSTRAINT OVER THE SYSTEM. THIS SIGNIFICANT DEGRADATION OF THE ENVIRONMENTAL CONDITIONS SHOULD INITIATE THE WEAKENING PHASE OF THE METEOR AND CONTINUE TUESDAY AND WEDNESDAY. WITHIN A MORE AND MORE BAROCLINIC ENVIRONMENT AND OVER COOLER WATERS SOUTH OF 27S, THE SYSTEM SHOULD BEGIN ITS POST-TROPICAL TRANSITION DURING THE MIDDLE OF NEXT WEEK.