

WTIO30 FMEE 021904

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

0.A WARNING NUMBER: 3/6/20172018

1.A TROPICAL DEPRESSION 6

2.A POSITION 2018/03/02 AT 1800 UTC:

WITHIN 30 NM RADIUS OF POINT 12.6 S / 54.4 E

(TWELVE DECIMAL SIX DEGREES SOUTH AND FIFTY FOUR DECIMAL FOUR DEGREES EAST)

MOVEMENT : QUASI-STATIONARY

3.A DVORAK ANALYSIS: 2.5/2.5/D 0.5/6 H

4.A CENTRAL PRESSURE: 997 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 30 KT

RADIUS OF MAXIMUM WINDS (RMW) :NIL

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

28 KT NE: 240 SE: 110 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 900 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2018/03/03 06 UTC: 14.4 S / 54.0 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

24H: 2018/03/03 18 UTC: 16.2 S / 53.2 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

36H: 2018/03/04 06 UTC: 17.9 S / 52.1 E, MAX WIND=070 KT, TROPICAL CYCLONE

48H: 2018/03/04 18 UTC: 19.7 S / 51.7 E, MAX WIND=085 KT, TROPICAL CYCLONE

60H: 2018/03/05 06 UTC: 21.4 S / 51.9 E, MAX WIND=085 KT, TROPICAL CYCLONE

72H: 2018/03/05 18 UTC: 23.0 S / 52.5 E, MAX WIND=080 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK :

96H: 2018/03/06 18 UTC: 25.8 S / 55.0 E, MAX WIND=065 KT, POST-TROPICAL DEPRESSION

120H: 2018/03/07 18 UTC: 29.3 S / 58.1 E, MAX WIND=050 KT, POST-TROPICAL DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=2.5

A CURVED BAND ASSOCIATED WITH COLD CLOUDS TOPS HAS FORMED THIS EVENING, WHICH HAS IMPROVED THE OVERALL PATTERN OF THE SYSTEM ON SAT IMAGERY. HOWEVER, MICROWAVE IMAGERY OF THIS EVENING SHOW A LACK OF A DEFINED LOW LEVEL STRUCTURE (CF 37 GHZ CHANNEL). PARTIAL ASCAT-A DATA OF 1747Z SHOW A STILL ELONGATED WINDFIELD OVER THE WESTERN PART OF THE CIRCULATION. BASED ON ALL OF THIS, THE INTENSITY IS ASSESSED AT 30 KT IN LINE WITH ALL 18Z SUBJECTIVE DVORAK ESTIMATES.

THE ENVIRONMENT IS NOW VERY CONDUCIVE FOR INTENSIFICATION WITH LOW SHEAR, HIGH MID-LEVEL HUMIDITY AND GOOD UPPER LEVEL OUTFLOW NORTH AND SOUTH OF THE SYSTEM. THE LACK OF LOW LEVEL STRUCTURE APPEARS ARE THE ONLY LIMITING FACTOR FOR RAPID INTENSIFICATION AT PRESENT TIME. BUT SHOULD NOT LAST FOR A LONG PERIOD GIVEN THE ENVIRONMENT.

SATURDAY, THE SYSTEM IS FORECAST TO INTENSIFY RAPIDLY. IT WILL TRACK SLOWLY SOUTH-SOUTHWESTWARDS AS A RIDGE BUILDS IN THE MID LEVEL EAST OF THE SYSTEM.

ON SUNDAY, THE SYSTEM SHOULD KEEP ON INTENSIFYING, WITH ONLY ON POLAR OUTFLOW CHANNEL LEFT, TRACKING GRADUALLY SOUTHWARDS AND THEN SOUTH-EASTWARDS SUNDAY NIGHT AS THE MID LEVEL RIDGE SHIFT TO THE NORTH-EAST AND NORTH OF THE SYSTEM.

MONDAY, THE SYSTEM IS FORECAST TO START WEAKENING UNDER A STRENGTHENING WESTERLY UPPER LEVEL CONSTRAINT THAT IS EXPECTED TO INCREASE THEREAFTER AS THE SYSTEM WILL MOVE THROUGH AN INCREASINGLY MORE BAROCLINIC ENVIRONMENT.