

WTIO30 FMEE 160652

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

0.A WARNING NUMBER: 5/1/20182019

1.A TROPICAL DEPRESSION 1

2.A POSITION 2018/09/16 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 11.2 S / 67.3 E

(ELEVEN DECIMAL TWO DEGREES SOUTH AND SIXTY SEVEN DECIMAL THREE  
DEGREES EAST)

MOVEMENT : WEST 9 KT

3.A DVORAK ANALYSIS: 2.0/2.5/S 0.0/24 H

4.A CENTRAL PRESSURE: 1004 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

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

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1013 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/09/16 18 UTC: 11.4 S / 64.8 E, MAX WIND=030 KT, TROPICAL DEPRESSION

24H: 2018/09/17 06 UTC: 11.5 S / 62.5 E, MAX WIND=025 KT, TROPICAL DISTURBANCE

36H: 2018/09/17 18 UTC: 10.8 S / 58.8 E, MAX WIND=025 KT, TROPICAL DISTURBANCE

48H: 2018/09/18 06 UTC: 9.3 S / 54.8 E, MAX WIND=025 KT, TROPICAL DISTURBANCE

60H: 2018/09/18 18 UTC: 7.5 S / 50.6 E, MAX WIND=020 KT, DISSIPATING

72H: 2018/09/19 06 UTC: 6.0 S / 47.0 E, MAX WIND=020 KT, DISSIPATING

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

FT=2.0 CI=2.5

LAST NIGHT, THE CLOUD PATTERN OF THE MIDGET HAS DETERIORATED DUE TO  
THE MODERATE NORTHEASTERN VERTICAL WINDSHEAR (ESTIMATED AT 20 KT BY  
THE CIMSS). THUS, TODAY, THE LOW LEVEL CIRCULATION IS PARTIALLY EXPOSED

WITH THE DEEP CONVECTION LOCATED WITHIN THE WESTERN QUADRANT. SUCCESSIVE 37GHZ MICROWAVE IMAGERIES (GCOM 2105Z THEN 0121Z WINDSAT) HAVE SHOWN THE GRADUAL DETERIORATION OF THE INTERNAL CIRCULATION. THE CURRENT INTENSITY ASSESSMENT IS IN GOOD AGREEMENT WITH THE LAST 0432Z ASCAT SWATH.

THE SYSTEM MOVES WESTWARD OVER THE NORTHERN EDGE OF THE SUBTROPICAL HIGH PRESSURES. WITH THE STRENGTHENING OF THE RIDGE OVER MADAGASCAR, THE SYSTEM IS FORECASTED TO CURVE WESTNORTHWESTWARD TOMORROW AND THEN NORTHWESTWARD TUESDAY AS IT ACCELERATES.

ENVIRONMENT CONDITIONS BECOME UNFAVOURABLE. NORTHEASTERN VERTICAL WINDSHEAR IS EXPECTED TO REMAIN MODERATE. MID-LEVEL ENVIRONMENT IS DRIER AND DRIER AND THE SYSTEM MOVES OVER WEAK OCEAN HEAT CONTENT. THUS, THE MINIMUM IS EXPECTED TO DISSIPATE FROM THE MIDDLE OF THE WEEK. HOWEVER THE ARRIVAL OF A LOW LEVEL HIGH PRESSURE CELL SOUTH OF THE SYSTEM SHOULD MAINTAIN NEAR GALE OR GALE FORCE WIND OVER THE SOUTHERN QUADRANT BY GRADIENT EFFECT IN THE BEGINNING OF THE WEEK.