

WTIO30 FMEE 190715
RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 2/6/20182019

1.A ZONE PERTURBEE 6

2.A POSITION 2019/01/19 AT 0600 UTC:

WITHIN 60 NM RADIUS OF POINT 23.2 S / 37.0 E

(TWENTY THREE DECIMAL TWO DEGREES SOUTH AND
THIRTY SEVEN DECIMAL ZERO DEGREES EAST)

MOVEMENT: QUASI-STATIONARY.

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 1003 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 25 KT

RADIUS OF MAXIMUM WINDS (RMW): NIL

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

NIL

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 1100 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS:

12H: 2019/01/19 18 UTC: 23.6 S / 37.7 E, VENT MAX= 025 KT, ZONE OF DISTURBED WEATHER

24H: 2019/01/20 06 UTC: 22.7 S / 38.4 E, VENT MAX= 030 KT, ZONE OF DISTURBED WEATHER

36H: 2019/01/20 18 UTC: 21.1 S / 38.5 E, VENT MAX= 035 KT, ZONE OF DISTURBED WEATHER

48H: 2019/01/21 06 UTC: 20.0 S / 38.0 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM

60H: 2019/01/21 18 UTC: 19.5 S / 37.1 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM

72H: 2019/01/22 06 UTC: 19.1 S / 36.3 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

THE SYSTEM HAS NOT INTENSIFIED YET AND IN FACT THE SATELLITE PRESENTATION HAS DEGRADED COMPARED TO 24 HOURS AGO. THE ILL DEFINED LOW LEVEL CIRCULATION IS EXPOSED TO THE WEST OF THE MAIN CONVECTION. MULTIPLE LOW LEVEL VORTEX ARE SEEN ON THE VISIBLE IMAGERY. THEREFORE

THE SYSTEM IS CLASSIFIED AS A ZONE OF DISTURBED WEATHER. THE GIVEN POSITION IS A MEAN POSITION AND DO NOT FIX ONE OF THE AFOREMENTIONED VORTEX.

AS A MID-LAT TROUGH IS CURRENTLY PASSING TO THE SOUTH OF THE SYSTEM, IT IS EXPECTED TO MOVE LITTLE WITHIN A WEAK STEERING FLOW AREA. TOMORROW, BUILDING LOW TO MID LEVELS HIGHS FROM THE SOUTH-WEST IS EXPECTED TO PUSH THE SYSTEM NORTHWARDS TOWARDS THE MOZAMBIQUE COASTS. ALTHOUGH MOST OF THE NUMERICAL GUIDANCE AGREE WITH THIS GENERAL FORECAST, SOME SIGNIFICANT SPREAD EXIST AMONGST THE GUIDANCE SPECIALLY REGARDING THE FORWARD MOTION. THE CURRENT FORECAST IS BASED ON AN AVERAGE TRACK BASED ON THE LATEST AVAILABLE GUIDANCE.

THE INITIAL WEAK STRUCTURE SEEMS DUE TO ABUNDANT MID LEVEL DRY AIR PRESENT NEAR THE CENTER WITHIN THE SOUTH-WESTERN QUADRANT. THIS ADVERSE THERMODYNAMICS CONDITIONS MAY STILL AFFECT THE SYSTEM FOR THE NEXT 24 HOURS DESPITE LOW TO MODERATE SHEAR AND FAVORABLE OCEANIC CONTAINS. FROM MONDAY, THE SYSTEM MAY EVOLVE WITHIN A MORE MOIST ENVIRONMENT THAT COULD ALLOW THE STARTING OF A DEEPENING TREND. THERE IS CURRENTLY NO AGREEMENT OF THE GUIDANCE ON THAT POINT AND THE CURRENT FORECAST LIES CLOSE TO AN AVERAGE FORECAST.

OVERALL THIS IS A LOW CONFIDENCE FORECAST FOR BOTH INTENSITY AND TRACKS (AT A LESSER EXTEND)

AS STRONG HIGH PRESSURE BUILDS FROM THE SOUTH-WEST FROM SUNDAY, NEAR GALE TO GALE FORCE WINDS ACCOMPANIED WITH HEAVY RAINFALLS ARE EXPECTED WITHIN THE WESTERN SEMI-CIRCLE OF THE SYSTEM WITH OR WITHOUT DEEPENING. THIS WEATHER MAY SPREAD OVER THE MOZAMBIQUE COASTS FROM MONDAY NEAR THE BEIRA AREA.