

WTIO30 FMEE 190100

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

0.A WARNING NUMBER: 25/3/20172018

1.A MODERATE TROPICAL STORM 3 (BERGUITTA)

2.A POSITION 2018/01/19 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 23.2 S / 54.5 E

(TWENTY THREE DECIMAL TWO DEGREES SOUTH AND FIFTY FOUR DECIMAL FIVE DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-WEST 13 KT

3.A DVORAK ANALYSIS: 3.5/3.5/S 0.0/24 H

4.A CENTRAL PRESSURE: 982 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 45 KT

RADIUS OF MAXIMUM WINDS (RMW) :NIL

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

28 KT NE: 330 SE: 870 SW: 700 NW: 410

34 KT NE: 170 SE: 480 SW: 440 NW: 130

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 1700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/01/19 12 UTC: 24.9 S / 52.2 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

24H: 2018/01/20 00 UTC: 27.2 S / 50.4 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

36H: 2018/01/20 12 UTC: 30.0 S / 49.9 E, MAX WIND=045 KT, POST-TROPICAL DEPRESSION

48H: 2018/01/21 00 UTC: 32.3 S / 49.9 E, MAX WIND=045 KT, POST-TROPICAL DEPRESSION

60H: 2018/01/21 12 UTC: 32.6 S / 51.5 E, MAX WIND=045 KT, POST-TROPICAL DEPRESSION

72H: 2018/01/22 00 UTC: 33.0 S / 53.5 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2018/01/23 00 UTC: 35.6 S / 57.0 E, MAX WIND=045 KT, POST-TROPICAL DEPRESSION

120H: 2018/01/24 00 UTC: 37.2 S / 55.8 E, MAX WIND=040 KT, POST-TROPICAL

DEPRESSION

2.C ADDITIONAL INFORMATION:

T=3.5 CI=3.5+

THE EMBEDDED CENTER PATTERN OF BERGUITTA HAS REMAINED QUITE IMPRESSIVE OVERNIGHT. ASCAT-A AND B PASS EARLIER TONIGHT WERE HELPFUL TO ASSESS BOTH INTENSITY AND STRUCTURE OF THE STORM. ASCAT MAX WINDS OF 40-45 KT WERE USED FOR THE INTENSITY. ASCAT DATA REVEAL A BROAD AND HIGHLY ASYMMETRIC WINDFIELD, NOT VERY COMMON OF CLASSICAL TROPICAL SYSTEMS. THE CENTER STILL APPEAR ON RADAR DATA OF LA REUNION ALTHOUGH A LOSS OF DEFINITION IS NOTED.

A LITTLE AFTER THE PREVIOUS ADVISORY, THE SYSTEM STOPPED ITS WESTWARDS MOTION POTENTIALLY INFLUENCED BY REUNION ISLAND. THE GIVEN BEARING IS A MEAN OVER THE LAST 3 HOURS. LATEST RADAR FIX SUGGEST A SPEED UP OF THE FORWARD MOTION WITH A TRACK THAT IS GRADUALLY BACK ON A SOUTH-WESTWARDS BEARING OVER THE NORTHWESTERN EDGE OF THE MID-LEVEL HIGHS. FROM SATURDAY, THE SYSTEM IS EXPECTED TO MOVE MORE POLEWARDS AND BEGIN ITS EXTRATROP TRANSITION (POST-TROP PHASIS). IT APPEARS LIKELY THAT THE SYSTEM MAY MISS THE FIRST MID-LAT TROUGH TO MERGE WITHIN THE WESTERLIES. IF IT COMES TRUE, THE SYSTEM MAY MEANDERING AROUND 35S BETWEEN EARLY NEXT WEEK. MODELS SUGGEST NOW THAT THE FULL EXTRATROPICAL TRANSITION MAY NOT BE COMPLETED BY THAT TIME.