

WTIO30 FMEE 200615

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

0.A WARNING NUMBER: 30/3/20172018

1.A POST-TROPICAL DEPRESSION 3 (EX-BERGUITTA)

2.A POSITION 2018/01/20 AT 0600 UTC:

WITHIN 30 NM RADIUS OF POINT 29.6 S / 50.3 E

(TWENTY NINE DECIMAL SIX DEGREES SOUTH AND FIFTY DECIMAL THREE  
DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-WEST 16 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 980 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

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

28 KT NE: 410 SE: 740 SW: 590 NW: 430

34 KT NE: 220 SE: 520 SW: 430 NW: 200

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 1000 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2018/01/20 18 UTC: 32.2 S / 49.9 E, MAX WIND=045 KT, POST-TROPICAL  
DEPRESSION

24H: 2018/01/21 06 UTC: 33.3 S / 50.9 E, MAX WIND=045 KT, POST-TROPICAL  
DEPRESSION

36H: 2018/01/21 18 UTC: 34.2 S / 53.5 E, MAX WIND=045 KT, POST-TROPICAL  
DEPRESSION

48H: 2018/01/22 06 UTC: 35.2 S / 56.1 E, MAX WIND=045 KT, POST-TROPICAL  
DEPRESSION

60H: 2018/01/22 18 UTC: 36.9 S / 58.7 E, MAX WIND=045 KT, POST-TROPICAL  
DEPRESSION

72H: 2018/01/23 06 UTC: 38.1 S / 60.0 E, MAX WIND=040 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK :

96H: 2018/01/24 06 UTC: 39.4 S / 60.9 E, MAX WIND=035 KT, FILLING UP

120H: 2018/01/25 06 UTC: 40.8 S / 61.1 E, MAX WIND=025 KT, REMNANT LOW

2.C ADDITIONAL INFORMATION:

CLOUD PATTERN REMAINS WELL DEGRADED AND DEEP CONVECTION IS LIMITED. THE TROPICAL CHARACTER CAN NOT BE MAINTAINED AND THE EX-BERGUITTA SYSTEM IS THEREFORE NOW POST-TROPICAL DEPRESSION CLASS. THE LAST 0525UTC ASCAT SWATH SHOWS A WIDE CIRCULATION WITH MAXIMUM WINDS ABOUT 40/45KT, VERY FAR FROM THE CENTER.

THE RAPID SOUTHERN TRACK IS NOW PRIMED UNDER THE INFLUENCE OF THE MID-LEVEL RIDGE PRESENT IN THE EAST BUT THE TRACK SLOWS INTO THE EVENING, STOPPED BY A LOW/MID LEVEL RIDGE MOVING SOUTH OF THE SYSTEM. NEXT, BERGUITTA IS EXPECTED TO LEAVE TROPICAL LATITUDES, SOUTH-EASTWARDS, DRIVEN BY THE PASSAGE OF A TROUGH AT SOUTH-EAST. AT LONG RANGE, THE ARRIVAL OF A NEW RIDGE AT SOUTH-WEST MAY SLOW DOWN AGAIN THE LOW.

TODAY, ENVIRONMENTAL CONDITIONS ARE LIKELY TO KEEP DETERIORATING WITH A INCREASING NORTHWESTWARD VERTICAL WINDSHEAR AHEAD AN UPPER LEVEL TROUGH. DESPITE ITS INTERACTION WITH A BAROCLINIC AREA AND THE UPPER TROUGH, EX-BERGUITTA SHOULD KEEP A SHALLOW WARM CORE AND MODERATE CONVECTION. NEXT WEEK, WITH THE DECAY OF THE BAROCLINIC FORCING, THE POST TROPICAL DEPRESSION MAY THEN FILL UP.