

WTIO30 FMEE 161829

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

0.A WARNING NUMBER: 16/3/20172018

1.A TROPICAL CYCLONE 3 (BERGUITTA)

2.A POSITION 2018/01/16 AT 1800 UTC:

WITHIN 21 NM RADIUS OF POINT 18.3 S / 60.7 E

(EIGHTEEN DECIMAL THREE DEGREES SOUTH AND SIXTY DECIMAL SEVEN
DEGREES EAST)

MOVEMENT : WEST-SOUTH-WEST 5 KT

3.A DVORAK ANALYSIS: 4.5/4.5/S 0.0/6 H

4.A CENTRAL PRESSURE: 965 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 75 KT

RADIUS OF MAXIMUM WINDS (RMW) :28 KM

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

28 KT NE: 130 SE: 560 SW: 560 NW: 170

34 KT NE: 90 SE: 240 SW: 240 NW: 130

48 KT NE: 60 SE: 70 SW: 90 NW: 60

64 KT NE: 50 SE: 50 SW: 50 NW: 50

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

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/01/17 06 UTC: 19.0 S / 59.4 E, MAX WIND=075 KT, TROPICAL CYCLONE

24H: 2018/01/17 18 UTC: 20.1 S / 58.3 E, MAX WIND=070 KT, TROPICAL CYCLONE

36H: 2018/01/18 06 UTC: 21.2 S / 56.1 E, MAX WIND=065 KT, TROPICAL CYCLONE

48H: 2018/01/18 18 UTC: 22.5 S / 53.9 E, MAX WIND=065 KT, TROPICAL CYCLONE

60H: 2018/01/19 06 UTC: 23.6 S / 52.3 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

72H: 2018/01/19 18 UTC: 25.3 S / 51.0 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2018/01/20 18 UTC: 30.7 S / 48.9 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

120H: 2018/01/21 18 UTC: 32.5 S / 47.6 E, MAX WIND=040 KT, POST-TROPICAL

DEPRESSION

2.C ADDITIONAL INFORMATION:

T=4.5 CI=4.5

OVER THE PAST SIX HOURS, THE CONVECTION AROUND THE CENTER OF
BERGUITTA IS MORE DISSYMETRIC AND FLUCTUATING. THE EYE CONFIGURATION

CLOUD DON'T APPEAR, MAINLY BY THE INTRUSION OF DRY AIR THAT WRAPS AND PENETRE BY THE SEMI-CIRCLE SOUTH OF THE CIRCULATION. THE DEEP CONVECTION ARE MORE ACTIVE IN THE NORTHERN PART OF BERGUITTA ON THE LATEST INFRARED DATA. THE INTENSITY REMAINS GLOBALLY STATIONARY SINCE THE LAST 6 HOURS.

THE WEAKENING OF THE RIDGE SITUATED SOUTH OF BERGUITTA NOW IMPOSES A TRACK SOUTHWESTWARD. SO THE CENTER OF BERGUITTA TRANSIT IN THE IMMEDIATE PROXIMITY OF MAURITIUS IN THE EARLY EVENING OF WEDNESDAY AND OF THE REUNION ISLAND TO 12 HOURS LATER. WITH DIRECT IMPACT OR VERY REDUCED DISTANCES FROM THE ISLAND, MONITORING THE CENTER WILL BE LIKELY DISTURBED BY OROGRAPHIC EFFECTS. ALTHOUGH THE RELIEF OF THE ISLANDS COULD TEMPORARILY WEAKEN THE CYCLONE, LOCAL ACCELERATION EFFECTS OF THE WIND ARE EXPECTED DURING THE PASSAGE NEAREST OF THE COASTS. AFTER THE PASSAGE TO THE NEAREST OF THE ISLANDS, BERGUITTA WILL CONTINUE TRACKING SOUTHWESTWARD BEFORE TRACKING SOUTHWARDS. LATER, HIGH PRESSURE FURTHER SOUTH SHOULD SLOW DOWN THE MOVING OF BERGUITTA, IF WE FOLLOW THE IFS MODEL SCENARIO.

INFORMATIONS FROM THE OCEANIC MODEL OF MERCATOR-OCEAN ALLOWS THE OCEANIC POTENTIAL TO REMAIN SUFFICIENT NORTH OF THE 21S BUT STARTS TO MISS SOUTH OF 22S. ADDING TO A MODERATE NORTHEASTERLY VERTICAL WINDSHEAR FORECAST TO INCREASE END OF THE PERIOD, THE SYSTEM IS EXPECTED TO WEAKEN VERY SLOWLY UNTIL FRIDAY, DESPITE A GOOD POLAR OUTFLOW CHANNEL.

HOWEVER THE WEAKENING OF THE LAST 12 HOURS BERGUITTA REMAIN A VERY DANGEROUS SYSTEM WHICH IS FORECAST TO MOVE CLOSER MAURICE AND REUNION ISLANDS AT A SIGNIFICANT INTENSITY. INHABITANTS ARE INVITED TO MONITOR CLOSELY THE EVOLUTION OF THIS SYSTEM IN THE NEXT DAYS.