

WTIO30 FMEE 201904
RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 6/6/20182019

1.A TEMPETE TROPICALE MODEREE 6(DESMOND)

2.A POSITION 2019/01/20 AT 1800 UTC:

WITHIN 20 NM RADIUS OF POINT 21.5 S / 38.8 E

(TWENTY ONE DECIMAL FIVE DEGREES SOUTH AND
THIRTY EIGHT DECIMAL EIGHT DEGREES EAST)

MOVEMENT: NORTH-NORTH-WEST 9 KT

3.A DVORAK ANALYSIS: 2.0/3.0/W 1.0/6 H

4.A CENTRAL PRESSURE: 996 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 35 KT

RADIUS OF MAXIMUM WINDS (RMW): NIL

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

28 KT NE: 110 SE: 0 SW: 740 NW: 350

34 KT NE: 0 SE: 0 SW: 440 NW: 260

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS:

12H: 2019/01/21 06 UTC: 19.6 S / 37.9 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

24H: 2019/01/21 18 UTC: 18.3 S / 37.1 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

36H: 2019/01/22 06 UTC: 16.9 S / 35.9 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=2.0+ CI=3.0-

AFTER A NEAR COMPLETE COLLAPSING OF THE DEEP CONVECTION DURING THE
AFTERNOON, A NEW CLUSTER OF DEEP CONVECTION HAS FORMED THIS EVENING
JUST TO THE SOUTH OF THE LLCC (CF WINDSAT IMAGERY AT 1543Z). THE AVAILABLE
DVORAK ESTIMATES ARE DECREASING BUT THE INTENSITY REMAINS UNCHANGED
AS GALE FORCE WINDS ARE STILL EXPECTED TO BLOW WITHIN THE WESTERN
SEMI-CIRCLE.

THE SYSTEM IS SUFFERING FROM A NORTHERLY SHEAR THAT SHOULD TURN EASTERLY TOMORROW. THE RATHER DRY MID-LEVEL ENVIRONMENT IS EXPECTED TO MOISTEN TOMORROW AS THE SYSTEM NEAR THE COASTS. THEREFORE THE FORECAST INTENSITY IS NOT EXPECTED TO CHANGE MUCH UNTIL LANDFALL WITH GALE FORCE WINDS EXPECTED TO MAINTAIN WEST OF THE CENTER (ASYMMETRICAL WIND STRUCTURE)

DUE TO THE BUILDING STRONG HIGH PRESSURE FROM THE SOUTH-WEST, THE SYSTEM SHOULD CONTINUE TRACKING NORTH-NORTH-WESTWARDS. UNDER THIS TRACK THE SYSTEM IS EXPECTED TO LANDFALL NEAR THE CITY OF QUELIMANE ON LATE MONDAY OR MONDAY NIGHT. THIS TREND IS NOW HIGHLY SUGGESTED BY THE EUROPEAN ENSEMBLE FORECAST ALONG WITH THE MOST RELIABLE NUMERICAL GUIDANCE. THE CURRENT FORECAST IS BASED ON AN AVERAGE OF IFS/06Z AND GFS/UK/12Z.

HOWEVER, SOME SIGNIFICANT WEATHER IS STILL EXPECTED FOR THE COASTAL AREAS OF MOZAMBIQUE : STRONGS WINDS AND HEAVY RAINS ARE SPREADING BETWEEN INHAMBANE AND BEIRA AND ARE EXPECTED TO EXTEND NORTH OF BEIRA ON MONDAY.