

WTIO30 FMEE 131839
RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 21/11/20182019

1.A INTENSE TROPICAL CYCLONE 11 (IDAI)

2.A POSITION 2019/03/13 AT 1800 UTC:
WITHIN 20 NM RADIUS OF POINT 19.6 S / 38.6 E
(NINETEEN DECIMAL SIX DEGREES SOUTH AND
THIRTY EIGHT DECIMAL SIX DEGREES EAST)
MOVEMENT: WEST-SOUTH-WEST 5 KT

3.A DVORAK ANALYSIS: 6.0/6.0/D 1.0/12 H

4.A CENTRAL PRESSURE: 945 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 100 KT
RADIUS OF MAXIMUM WINDS (RMW): 37 KM

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

28 KT NE: 220 SE: 260 SW: 260 NW: 220

34 KT NE: 180 SE: 190 SW: 190 NW: 180

48 KT NE: 110 SE: 110 SW: 110 NW: 110

64 KT NE: 80 SE: 80 SW: 80 NW: 80

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/03/14 06 UTC: 19.8 S / 37.0 E, VENT MAX= 105 KT, INTENSE TROPICAL
CYCLONE

24H: 2019/03/14 18 UTC: 19.8 S / 35.3 E, VENT MAX= 095 KT, INTENSE TROPICAL
CYCLONE

36H: 2019/03/15 06 UTC: 19.4 S / 33.6 E, VENT MAX= 035 KT, OVERLAND DEPRESSION

48H: 2019/03/15 18 UTC: 18.2 S / 32.2 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=CI=6.0

AS THE ERC IS NOW OVER, IDAI HAS DEVELOPED A WELL DEFINED LARGE EYE THIS
EVENING (EYE DIAMETER LARGER THAN 45 NM IN EIR IMAGERY). DUE TO THE
LARGE EYE CONSTRAINT IN THE DVORAK METHOD (NO POSITIVE E-NUMBER
ADJUSTMENT), STRONG DISCREPANCIES APPEAR ON THE RAW DT-NUMBER,

PENDING ON APPLYING OR NOT THE LARGE EYE CONSTRAINT (DT AT 5.5 OR 6.5). THEREFORE, THE FINAL T-NUMBER IS SET AT 6.0 AND IS BASED ON PT-NUMBER. THE FINAL INTENSITY AT 100 KT COME ALSO IN GOOD AGREEMENT BETWEEN THE ADT AT 95 KT (10-MIN WINDS) AND THE LATEST SATCON AT 105 KT (10-MIN WINDS).

IDAI'S TRACK IS STILL ON A GENERAL WESTWARDS TRACK UNDER THE INFLUENCE OF A SUBTROPICAL RIDGE LOCATED TO THE SOUTH-WEST OF THE SYSTEM. THIS GENERAL TREND SHOULD CONTINUE UNTIL LANDFALL WITH SOME POSSIBLE SLIGHT ACCELERATION OF THE FORWARD MOTION. THE CONFIDENCE IN THE TRACK FORECAST IS VERY GOOD, WITH LOW DISPERSION. ON THIS TRACK, IDAI SHOULD VERY PROBABLY LANDFALL DURING THE EVENING OR THE NIGHT FROM THURSDAY TO FRIDAY IN A 100KM AREA AROUND BEIRA.

ON IR IMAGERY, IDAI TENDS TO LOOK LIKE AN ANNULAR CYCLONE WHICH MEAN THAT THE SYSTEM SHOULD BE RATHER STEADY IN STRENGTH UNTIL LANDFALL.

IDAI IS AN EXTREMELY DANGEROUS TROPICAL CYCLONE AND SHOULD REMAIN SO AT LANDFALL. THE INHABITANTS OF THE THREATENED AREA ARE URGED TO FOLLOW OFFICIAL RECOMMENDATIONS AND MONITOR THE INFORMATION ISSUED BY THE MOZAMBICAN NATIONAL WEATHER SERVICE. THERE IS STILL ENOUGH UNCERTAINTY ON THE FINAL TRACK TO TALK ABOUT A PRECISE STORM SURGE VALUE AT BEIRA. HAVING SAID THAT, AN EXTREMELY DANGEROUS STORM SURGE, EXCEEDING 3 TO 4 METERS IS VERY LIKELY SOUTH OF THE LANDFALL POINT AND POTENTIALLY MORE IN THE PUNGWE RIVER MOUTH IF THE MAXIMUM OF STORM SURGE HIT THAT PLACE. IF THE CURRENT TRACK IS CONFIRMED, THIS COULD BE A WORST CASE SCENARIO FOR BEIRA.