

WTIO30 FMEE 131237

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

0.A WARNING NUMBER: 20/11/20182019

1.A TROPICAL CYCLONE 11 (IDAI)

2.A POSITION 2019/03/13 AT 1200 UTC:

WITHIN 15 NM RADIUS OF POINT 19.5 S / 39.0 E  
(NINETEEN DECIMAL FIVE DEGREES SOUTH AND  
THIRTY NINE DECIMAL ZERO DEGREES EAST)  
MOVEMENT: WEST 5 KT

3.A DVORAK ANALYSIS: 5.5/5.5/D 1.0/12 H

4.A CENTRAL PRESSURE: 962 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 85 KT  
RADIUS OF MAXIMUM WINDS (RMW): 46 KM

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

28 KT NE: 260 SE: 260 SW: 260 NW: 240  
34 KT NE: 190 SE: 190 SW: 190 NW: 170  
48 KT NE: 130 SE: 130 SW: 130 NW: 130  
64 KT NE: 90 SE: 90 SW: 90 NW: 90

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 00 UTC: 19.7 S / 37.5 E, VENT MAX= 100 KT, INTENSE TROPICAL  
CYCLONE

24H: 2019/03/14 12 UTC: 19.8 S / 36.1 E, VENT MAX= 105 KT, INTENSE TROPICAL  
CYCLONE

36H: 2019/03/15 00 UTC: 19.6 S / 34.7 E, VENT MAX= 090 KT, INTENSE TROPICAL  
CYCLONE

48H: 2019/03/15 12 UTC: 18.9 S / 33.5 E, VENT MAX= 045 KT, OVERLAND DEPRESSION

60H: 2019/03/16 00 UTC: 18.4 S / 32.9 E, VENT MAX= 030 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=CI=5.5-

OVER THE LAST SIX HOURS, IDAI CLOUD PATTERN SLOWLY IMPROVED ESPECIALLY  
ON THE LATEST IMAGES. THE EYEWALL REPLACEMENT CYCLE HAS ENTERED ITS

FINAL PART WITH THE NEARLY DISAPPEARING OF THE FIRST EYE VISIBLE UP TO 10Z IN INFRARED. 1046Z AMSR2 SWATH SHOW THAT THE FIRST EYEWALL IS ALMOST VANISHED. THE OUTER EYEWALL ON THE CONTRARY HAS AN IMPRESSIVE SIGNATURE IN 89GHZ AND SHRINK SIGNIFICANTLY. THIS FACTS TESTIFY THAT A DEEPENING PHASE CLEARLY STARTED. INITIAL INTENSITY WAS THUS UPGRADED, IN AGREEMENT WITH THE LATEST RAW DVORAK ESTIMATES. FOR INFORMATION, A SMAP SWATH AT 0315Z SHOWED MAXIMAL WINDS REACHING 88KT.

IDAI'S TRACK BEGAN TO BEND WESTSWARDS UNDER THE INFLUENCE OF A SUBTROPICAL RIDGE LOCATED TO THE SOUTH-WEST OF THE SYSTEM. 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.

GIVEN THE IMMINENCE OF THE ERC END, INTENSE TROPICAL CYCLONE STATUS WILL LIKELY BE REACH OVERNIGHT. THE ENVIRONMENT IS CONDUCIVE FOR SUCH AN INTENSITY UP TO THE LANDFALL. NOR MICROWAVE DATA OR CIMSS MPERC SUGGEST CURRENTLY A NEW ERC.

IDAI IS AN EXTREMELY DANGEROUS SYSTEM 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. A DANGEROUS STORM SURGE, EXCEEDING 3 METERS IS LIKELY SOUTH OF THE LANDFALL. IF THE CURRENT TRACK IS CONFIRMED, THE SURGE COULD BECOME MUCH MORE IMPORTANT ON BEIRA AREA, WHICH IS SOUTH OF THE LANDFALL. POTENTIALLY ASSOCIATED WITH THE HIGH TIDE, THE SURGE COULD REACH 4M ON THE COASTLINE AND 7 TO 8M IN THE PUNGWE RIVER MOUTH (CAUTION: THIS VALUE DOES NOT TAKE INTO ACCOUNT THE TIDE AND THE SEA LEVEL RISE DUE TO THE CYCLONIC SWELL).