

WTIO30 FMEE 141843

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 25/11/20182019

1.A INTENSE TROPICAL CYCLONE 11 (IDAI)

2.A POSITION 2019/03/14 AT 1800 UTC:

WITHIN 20 NM RADIUS OF POINT 19.8 S / 35.6 E

(NINETEEN DECIMAL EIGHT DEGREES SOUTH AND
THIRTY FIVE DECIMAL SIX DEGREES EAST)

MOVEMENT: WEST 6 KT

3.A DVORAK ANALYSIS: 5.0/5.5/D 0.5/6 H

4.A CENTRAL PRESSURE: 955 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 90 KT

RADIUS OF MAXIMUM WINDS (RMW): 37 KM

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

28 KT NE: 220 SE: 280 SW: 260 NW: 220

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

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 / 500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/03/15 06 UTC: 19.4 S / 34.1 E, VENT MAX= 045 KT, OVERLAND DEPRESSION

24H: 2019/03/15 18 UTC: 18.5 S / 32.3 E, VENT MAX= 030 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=5.0- CI=5.5

IDAI CLOUD PATTERN IMPROVED OVER THE LAST HOUR WITH A MUCH COLDER
CONVECTIVE BELT AROUND THE EYE. DVORAK ESTIMATES ARE AROUND 5.0
WHETHER THE SIZE OF THE EYE IS TAKEN INTO ACCOUNT. GIVEN THIS TREND,
INTENSITY WAS MAINTAINED TO 90KT.

TODAY MICROWAVE DATA, SHOW THAT A SECOND EYEWALL REPLACEMENT CYCLE
HAD STARTED LATE LAST NIGHT, WHICH COULD EXPLAIN THE WEAKENING PHASE.
SINCE, THE OUTER EYEWALL ENTERED INLAND IN THE NORTH-WESTERN

QUADRANT. THE CYCLE PROBABLY STOPPED WHILE INTERACTING WITH THE LANDMASS, AND SO HELPED PARTIALLY AT LEAST IN THE VISUAL IMPROVEMENT.

A 18Z, IDAI CENTER IS LOCATED 75KM EAST OF BEIRA. AND THE COASTLINE 40KM NORTH OF BEIRA ENTERED THE EYE. THE CYCLONE STARTED TO BEND WEST-NORTH-WESTWARD AND IS EXPECTED TO KEEP THAT DIRECTION WHILE MOVING INLAND.

IDAI IS AN EXTREMELY DANGEROUS TROPICAL CYCLONE . THE INHABITANTS OF THE THREATENED AREA ARE URGED TO FOLLOW OFFICIAL RECOMMENDATIONS AND MONITOR THE INFORMATION ISSUED BY THE MOZAMBICAN NATIONAL WEATHER SERVICE.

WITH THE CHANGE OF DIRECTION, WEST-NORTH-WESTWARDS, THE WORST CASE SCENARIO IS VERY LIKELY. LAST FORECAST STILL SUGGEST A LIFE-THREATENING STORM SURGE UP TO 3M50-4M ON THE COASTLINE AND MORE THAN 6M IN THE PUNGWE RIVER MOUTH (CAUTION: THIS VALUE DOES NOT TAKE INTO ACCOUNT THE TIDE AND THE WATER RISE FROM THE CYCLONIC SWELL). THIS PEAK WILL PROBABLY BE ASSOCIATED WITH THE HIGH TIDE LATER TONIGHT.