

WTIO30 FMEE 120647

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

0.A WARNING NUMBER: 15/11/20182019

1.A TROPICAL CYCLONE 11 (IDAI)

2.A POSITION 2019/03/12 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 18.4 S / 41.8 E
(EIGHTEEN DECIMAL FOUR DEGREES SOUTH AND
FORTY ONE DECIMAL EIGHT DEGREES EAST)
MOVEMENT: SOUTH-WEST 6 KT

3.A DVORAK ANALYSIS: 4.5/5.0/W 1.0/24 H

4.A CENTRAL PRESSURE: 973 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 70 KT
RADIUS OF MAXIMUM WINDS (RMW): 15 KM

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

28 KT NE: 220 SE: 220 SW: 280 NW: 240
34 KT NE: 170 SE: 170 SW: 180 NW: 160
48 KT NE: 70 SE: 80 SW: 80 NW: 60
64 KT NE: 40 SE: 60 SW: 60 NW: 40

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 1000 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/03/12 18 UTC: 19.1 S / 40.8 E, VENT MAX= 075 KT, TROPICAL CYCLONE

24H: 2019/03/13 06 UTC: 19.5 S / 39.6 E, VENT MAX= 095 KT, INTENSE TROPICAL
CYCLONE

36H: 2019/03/13 18 UTC: 19.7 S / 38.3 E, VENT MAX= 105 KT, INTENSE TROPICAL
CYCLONE

48H: 2019/03/14 06 UTC: 19.9 S / 36.9 E, VENT MAX= 105 KT, INTENSE TROPICAL
CYCLONE

60H: 2019/03/14 18 UTC: 19.7 S / 35.6 E, VENT MAX= 105 KT, INTENSE TROPICAL
CYCLONE

72H: 2019/03/15 06 UTC: 19.3 S / 34.3 E, VENT MAX= 045 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:

96H: 2019/03/16 06 UTC: 17.9 S / 33.4 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

2.C ADDITIONAL INFORMATION:

T=4.5- CI=5.0-

RECENT MW IMAGERY SHOW THAT AN ERC IS STILL UNDERWAY WITH AN ERODING INNER EYEWALL BUT A SECONDARY EYEWALL THAT HAS NOT STILL NOT ENCOMPASS THE INNER WALL. THIS SLOW EVOLUTION OF THE ERC IMPLIES HIGHER THAN USUAL UNCERTAINTY ON THE CURRENT STRENGTH OF THE SYSTEM AND THE INTENSITY FORECAST. THE FINAL INTENSITY AT 70 KT IS SLIGHTLY BELOW MOST OF THE DVORAK ESTIMATES BUT IS IN GOOD AGREEMENT WITH THE LATEST OBJECTIVE ESTIMATES (ADT, SATCON) AROUND 75-80 KT (1-MIN WINDS)

IDAI MAINTAIN A SLOW TRACK TOWARDS THE SOUTHWEST THAT IS EXPECTED TO BEND GRADUALLY WESTWARDS OVER THE NEXT 24 HOURS WITH THE STRENGTHENING INFLUENCE OF A SUBTROPICAL RIDGE LOCATED IN THE SOUTH-WEST.THERE IS STILL SOME UNCERTAINTY FOR BOTH TIMING AND LOCATION OF THE IMPACT ON THE MOZAMBIQUE COAST BUT RECENT GUIDANCE POINT IN THE VICINITY OF THE BEIRA AREA.

ALTHOUGH ENVIRONMENTAL CONDITIONS ARE EXPECTED TO REMAIN QUITE CONDUCIVE TO SUPPORT AN INTENSE SYSTEM UNTIL LANDFALL, THE INTENSITY FORECAST REMAINS CHALLENGING DUE TO THE ONGOING INNER CORE PROCESS. THE GENERAL PHILOSOPHY REMAINS THAT IDAI IS EXPECTED TO REGAIN STENTGH AND BE AN INTENSE TROPICAL CYCLONE AS IT WILL NEAR THE MOZAMBIQUE COAST IN 48-60 HOURS. MAXIMUM INTENSITY HAS BEEN REDUCED TO 105 KT ACCORDING TO LATEST INTENSITY GUIDANCE THAT LIES AROUND 90-100 KT.

IDAI SHOULD BE A VERY DANGEROUS STORM AT THE TIME OF ITS LANDFALL NOW FORECAST THURSDAY NIGHT. DANGEROUS STORM SURGE, EXCEEDING 3 METERS ARE LIKELY NEAR AND JUST TO THE SOUTH OF THE CENTER. TO THIS, WE MUST ADD A CYCLONIC SWELL ALREADY PRESENT ON THE MALAGASY AND AFRICAN COASTS WHICH WILL CONTINUE TO GROW.