

WTIO30 FMEE 140046

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 22/11/20182019

1.A INTENSE TROPICAL CYCLONE 11 (IDAI)

2.A POSITION 2019/03/14 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 19.7 S / 37.9 E

(NINETEEN DECIMAL SEVEN DEGREES SOUTH AND
THIRTY SEVEN DECIMAL NINE DEGREES EAST)

MOVEMENT: WEST-SOUTH-WEST 6 KT

3.A DVORAK ANALYSIS: 6.0/6.0/D 0.5/12 H

4.A CENTRAL PRESSURE: 940 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 105 KT

RADIUS OF MAXIMUM WINDS (RMW): 35 KM

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

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

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

48 KT NE: 130 SE: 130 SW: 110 NW: 110

64 KT NE: 90 SE: 90 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 12 UTC: 19.8 S / 36.4 E, VENT MAX= 100 KT, INTENSE TROPICAL
CYCLONE

24H: 2019/03/15 00 UTC: 19.7 S / 34.7 E, VENT MAX= 085 KT, TROPICAL CYCLONE

36H: 2019/03/15 12 UTC: 19.1 S / 32.9 E, VENT MAX= 030 KT, OVERLAND DEPRESSION

48H: 2019/03/16 00 UTC: 18.6 S / 31.4 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=6.0- CI=6.0

IDAI HAS MAINTAINED ITS WELL DEFINED LARGE EYE PATTERN OVERNIGHT WITH ONLY SOME SLIGHT WARMING OF THE CLOUD TOPS REFLECTED BY A SLOW DECREASING OF SUBJECTIVE AND OBJECTIVE T-NUMBERS. SHORTLY AFTER THE ISSUANCE OF THE PREVIOUS ADVISORY, DATA FROM A SMAP OVERPASS AT 1524Z SHOWING 105 KT MAX WINDS, WAS RECEIVED. AS THE INTENSITY HAS LIKELY BEEN

STEADY DURING THAT TIME, THE FINAL INTENSITY IS SET AT 105 KT.

A SOLID LOW TO MID-LEVEL SUBTROPICAL HIGH IS NOW LOCATED SOUTH OF THE SYSTEM WITH A STRONG RIDGE EXTENDING WESTWARDS. ON THIS PATTERN, IDAI IS EXPECTED TO CONTINUE ON ITS GENERAL WESTWARDS TRACK TODAY UNTIL LANDFALL OVER THE MOZAMBIQUE COASTS THAT IS EXPECTED IN LESS THAN 24 HOURS NOW. THE CONFIDENCE IN THE TRACK FORECAST REMAINS VERY GOOD, WITH LOW DISPERSION. ON THIS TRACK, IDAI SHOULD VERY LIKELY MAKE LANDFALL IN A 100 KM 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. HOWEVER LATEST NUMERICAL GUIDANCE SUGGEST THAT SOME EASTERLY MID-SHEAR MAY INCREASE TODAY AND THAT COULD CAUSE SOME WEAKENING TODAY BEFORE THE LANDFALL.

IDAI IS AN EXTREMELY DANGEROUS TROPICAL CYCLONE AND SHOULD REMAIN SO UNTIL THE LANDFALL. THE INHABITANTS OF THE THREATENED AREA ARE URGED TO FOLLOW OFFICIAL RECOMMENDATIONS AND MONITOR THE INFORMATION ISSUED BY THE MOZAMBIKAN NATIONAL WEATHER SERVICE.

ON THE CURRENT FORECAST TRACK AND BASED ON FORECAST WINDFIELDS FROM AROME, SOME STORM SURGE UP TO 3M50-4M IS POSSIBLE AT BEIRA REACHING 5M50-6M IN THE PUNGWE RIVER MOUTH (CAUTION: THIS VALUE DOES NOT TAKE INTO ACCOUNT THE TIDE AND THE WATER RISE FROM THE CYCLONIC SWELL). IF THE CURRENT TRACK IS CONFIRMED, THIS COULD BE A WORST CASE SCENARIO FOR THE BEIRA AREA.