

WTIO30 FMEE 100100
RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 6/11/20182019

1.A MODERATE TROPICAL STORM 11 (IDAI)

2.A POSITION 2019/03/10 AT 0000 UTC:
WITHIN 20 NM RADIUS OF POINT 17.2 S / 42.3 E
(SEVENTEEN DECIMAL TWO DEGREES SOUTH AND
FORTY TWO DECIMAL THREE DEGREES EAST)
MOVEMENT: EAST-SOUTH-EAST 4 KT

3.A DVORAK ANALYSIS: 3.0/3.0/D 0.5/12 H

4.A CENTRAL PRESSURE: 992 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 40 KT
RADIUS OF MAXIMUM WINDS (RMW): 56 KM

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

28 KT NE: 170 SE: 170 SW: 130 NW: 130
34 KT NE: 130 SE: 130 SW: 90 NW: 90

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/03/10 12 UTC: 17.4 S / 42.7 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM
24H: 2019/03/11 00 UTC: 17.6 S / 42.6 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM
36H: 2019/03/11 12 UTC: 17.9 S / 42.1 E, VENT MAX= 070 KT, TROPICAL CYCLONE
48H: 2019/03/12 00 UTC: 18.3 S / 41.3 E, VENT MAX= 080 KT, TROPICAL CYCLONE
60H: 2019/03/12 12 UTC: 18.8 S / 40.3 E, VENT MAX= 085 KT, TROPICAL CYCLONE
72H: 2019/03/13 00 UTC: 19.1 S / 39.2 E, VENT MAX= 090 KT, INTENSE TROPICAL
CYCLONE

2.B LONGER-RANGE OUTLOOK:

96H: 2019/03/14 00 UTC: 19.3 S / 36.4 E, VENT MAX= 080 KT, TROPICAL CYCLONE
120H: 2019/03/15 00 UTC: 19.1 S / 34.6 E, VENT MAX= 000 , OVERLAND DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=3.0-

DURING THE LAST 6 HOURS, THE ORGANISATION OF DEEP CONVECTION NEAR THE
CENTER SEEMS TO HAVE IMPROVED, INTO A 07/08 BI PATTERN. SO THE SYSTEM HAS
BEEN NAMED IDAI AT 23Z.

SINCE 18Z THE SYSTEM HAS SLOWED DOWN, AS IT IS EXPECTED TO CURVED IN

THE DAYTIME.

TODAY, THE NEAR-EQUATORIAL RIDGE IS EXPECTED TO WEAKEN WHILE THE SUBTROPICAL RIDGE IS FORECASTED TO STRENGTHEN SOUTH OF THE MOZAMBIQUE CHANNEL. THE SYSTEM HAS BEGAN TO SLOW DOWN AND SHOULD CURVE SOUTHWARD AND THEN SOUTHWESTWARD. FROM MONDAY, THE SYSTEM SHOULD ACCELERATE WESTSOUTHWESTWARD STEERING BY THE SUBTROPICAL RIDGE. THE SYSTEM IS EXPECTED TO LAND OVER MOZAMBIQUE COASTLINES THURSDAY. MODELS ARE IN GOOD AGREEMENT WITH THIS TRACK PHILOSOPHY BUT THE LONGITUDE OF THE TURN WESTSOUTHWESTWARD REMAINS A LITTLE UNCERTAIN, WITH A DISPERSAL OF THE MODELE IN THE WESTWARDS MOTION, AND ALSO THE AREA AND TIMING OF THE LANDFALL.

ON THIS TRACK, ENVIRONMENTAL CONDITIONS ARE FAVORABLE FOR INTENSIFICATION. THE SYSTEM, SHOULD EVOLVE BENEATH THE UPPER LEVEL RIDGE WITH A WEAK VERTICAL WINDSHEAR AND A GOOD POLERWARD DIVERGENCE. OCEAN HEAT CONTENT IS VERY GOOD. IN THESE CONDITIONS, THE LIKELIHOOD THAT A MATURE SYSTEM WITH A HIGH INTENSITY LANDS OVER MOZAMBIQUE IS VERY HIGH.