

WTIO30 FMEE 090614

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 3/11/20182019

1.A TROPICAL DEPRESSION 11

2.A POSITION 2019/03/09 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 17.0 S / 40.4 E

(SEVENTEEN DECIMAL ZERO DEGREES SOUTH AND
FORTY DECIMAL FOUR DEGREES EAST)

MOVEMENT: EAST 3 KT

3.A DVORAK ANALYSIS: 2.5/2.5/D 0.5/6 H

4.A CENTRAL PRESSURE: 1000 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 30 KT

RADIUS OF MAXIMUM WINDS (RMW): 56 KM

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

28 KT NE: 150 SE: 150 SW: NW:

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1008 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/03/09 18 UTC: 16.9 S / 40.9 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

24H: 2019/03/10 06 UTC: 17.1 S / 41.6 E, VENT MAX= 045 KT, MODERATE TROPICAL
STORM

36H: 2019/03/10 18 UTC: 17.4 S / 41.5 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM

48H: 2019/03/11 06 UTC: 17.5 S / 41.2 E, VENT MAX= 065 KT, TROPICAL CYCLONE

60H: 2019/03/11 18 UTC: 17.8 S / 40.6 E, VENT MAX= 075 KT, TROPICAL CYCLONE

72H: 2019/03/12 06 UTC: 18.2 S / 39.5 E, VENT MAX= 085 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK:

96H: 2019/03/13 06 UTC: 18.8 S / 36.5 E, VENT MAX= 085 KT, TROPICAL CYCLONE

120H: 2019/03/14 06 UTC: 19.5 S / 34.0 E, VENT MAX= 040 KT, OVERLAND DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=2.5-

DURING THE NIGHT, THE SYSTEM HAS GOT OUT IN SEA NEAR THE MOZAMBIQUE
COASTLINES. ACTIVE CONVECTIVE BANDS WRAP UP AROUND THE CENTER WITH
INCREASING CURVATURE.

THE SYSTEM IS FORECASTED TO MOVE SLOWLY EASTWARD UNTIL MONDAY STEERING BY A LOW/MID NEAR-EQUATORIAL RIDGE LOCATED NORTH OF THE SYSTEM. FROM TUESDAY, THE NEAR-EQUATORIAL RIDGE IS EXPECTED TO WEAKEN WHILE THE SUBTROPICAL RIDGE IS FORECASTED TO STRENGTHEN SOUTH OF THE MOZAMBIQUE CHANNEL. THE SYSTEM SHOULD CURVE SOUTHWESTWARD THEN ACCELERATE WESTWARD STEERING BY THE SUBTROPICAL RIDGE. THE SYSTEM IS EXPECTED TO LAND AGAIN WEDNESDAY OVER MOZAMBIQUE. MODELS ARE IN GOOD AGREEMENT WITH THIS TRACK PHILOSOPHY BUT THE LONGITUDE OF THE TURN WESTWARD REMAINS UNCERTAIN.

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 SIGNIFICANT INTENSITY MAKES A LANDING OVER THE MOZAMBIQUE IS VERY HIGH.