

WTIO30 FMEE 040816

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 1/11/20182019

1.A TROPICAL DEPRESSION 11

2.A POSITION 2019/03/04 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 18.1 S / 37.6 E

(EIGHTEEN DECIMAL ONE DEGREES SOUTH AND

THIRTY SEVEN DECIMAL SIX DEGREES EAST)

MOVEMENT: WEST 4 KT

3.A DVORAK ANALYSIS: 2.5/2.5/S 0.0/0 H

4.A CENTRAL PRESSURE: 1003 HPA

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

RADIUS OF MAXIMUM WINDS (RMW): 28 KM

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

28 KT NE: 80 SE: 70 SW: 90 NW: 80

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 300 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS:

12H: 2019/03/04 18 UTC: 17.8 S / 36.9 E, VENT MAX= 030 KT, OVERLAND DEPRESSION

24H: 2019/03/05 06 UTC: 17.1 S / 36.0 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=CI=2.5

RESULTING FROM AN ILL-DEFINED CLOCKWISE CIRCULATION UNTIL 24 HOURS AGO BUT FOLLOWED IN THE AWIO20 WARNING BULLETIN, THE CLOUD PATTERN OF TROPICAL DEPRESSION 11 HAS EVOLVED WELL OVER THE LAST 24 HOURS.

RECENTLY, CONVECTION NEAR THE CENTER HAS INTENSIFIED. THE 0621UTC ASCAT SWATH ALLOWS TO ESTIMATE WINDS OF 30KT, LOCALLY REACHING 35KT WHILE THE 0330UTC MICROWAVE DATA STILL DEFINE A TIMID CLOCKWISE CIRCULATION.

TROPICAL DEPRESSION 11 IS EXPECTED TO LAND QUICKLY ON THE MOZAMBICAN COAST DURING THE DAY ON MONDAY. THE RELATIVELY LATE IMPLEMENTATION OF THE CLOCKWISE CIRCULATION WILL NOT ALLOW THE SYSTEM TO INTENSIFY SIGNIFICANTLY, DESPITE THE SIGNIFICANT ENERGY POTENTIAL OF THE OCEAN.

WINDS IN THE ORDER OF 35KT MAY LOCALLY AFFECT THE SOUTHEAST QUADRANT BEFORE THE SYSTEM LANDS. THE CONVECTION ASSOCIATED WITH THIS SYSTEM WILL REMAIN QUITE STRONG, BRINGING REMARKABLE PRECIPITATION ON THE LANDING ZONE ON THE MOZAMBIKAN COAST.