

WTIO30 FMEE 090619

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

0.A WARNING NUMBER: 38/1/20172018

1.A POST-TROPICAL DEPRESSION 1 (EX-AVA)

2.A POSITION 2018/01/09 AT 0600 UTC:

WITHIN 10 NM RADIUS OF POINT 28.6 S / 48.3 E

(TWENTY EIGHT DECIMAL SIX DEGREES SOUTH AND FORTY EIGHT DECIMAL THREE DEGREES EAST)

MOVEMENT : SOUTH-EAST 14 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 990 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 35 KT

RADIUS OF MAXIMUM WINDS (RMW) :NIL

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

28 KT NE: 670 SE: 520 SW: 220 NW: 0

34 KT NE: 300 SE: 330 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1004 HPA / 1000 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2018/01/09 18 UTC: 30.7 S / 50.3 E, MAX WIND=035 KT, POST-TROPICAL DEPRESSION

24H: 2018/01/10 06 UTC: 33.0 S / 53.4 E, MAX WIND=035 KT, EXTRATROPICAL DEPRESSION

36H: 2018/01/10 18 UTC: 38.2 S / 59.9 E, MAX WIND=040 KT, DISSIPATING

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

OVER THE LAST 6 HOURS: THUNDERSTORM ACTIVITY REMAINS FAR AWAY FROM THE CENTER OVER THE EASTERN SEMI-CIRCLE. THE SYSTEM SHOW NOW A POST-TROPICAL CHARACTER.

EX-AVA HAS MADE A LOOP OVERNIGHT AND IS ACCELERATING SOUTH-SOUTHEASTWARDS. TODAY, THE RIDGE IS FORECASTED TO SHIFT EASTWARD AND AVA SHOULD GRADUALLY ACCELERATE SOUTHEASTWARD STEERED BY A MID-LATITUDE TROUGH ARRIVING BY ITS SOUTH-WEST. MODELS ARE NOW IN GOOD AGREEMENT IN THIS SCENARIO.

A MODERATE TO STRONG VERTICAL WESTERLY WINDSHEAR SHOULD BE GRADUALLY AFFECTING THE SYSTEM WHILE OCEAN HEAT CONTENT BECOMES INSUFFICIENT. TODAY, THE SYSTEM SHOULD BEGIN TO INTERACT WITH THE SUBTROPICAL JETSTREAK, AND SHOULD BEGIN ITS EXTRATROPICAL TRANSITION. EX-AVA'S EXTRATROPICALISATION PROCESS IS FORECASTED TO BE ACHIEVED BY WEDNESDAY.

AFTER THAT THE COUNTERCLOCKWISE CIRCULATION IS EXPECTED TO MERGE WITHIN THE COLD FRONT ASSOCIATED WITH THE MID-LAT TROUGH AND BE REACTIVATED INTO A DEEP POLAR DEPRESSION AHEAD OF AN UPPER ATMOSPHERIC DYNAMIC ASSOCIATED TO THE TROUGH.