

WTIO30 FMEE 091229

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

0.A WARNING NUMBER: 39/1/20172018

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

2.A POSITION 2018/01/09 AT 1200 UTC:

WITHIN 15 NM RADIUS OF POINT 30.6 S / 48.4 E

(THIRTY DECIMAL SIX DEGREES SOUTH AND FORTY EIGHT DECIMAL FOUR
DEGREES EAST)

MOVEMENT : SOUTH 15 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 991 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: 370 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1004 HPA / 1100 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2018/01/10 00 UTC: 32.3 S / 51.4 E, MAX WIND=035 KT, EXTRATROPICAL
DEPRESSION

24H: 2018/01/10 12 UTC: 39.2 S / 58.7 E, MAX WIND=035 KT, EXTRATROPICAL
DEPRESSION

36H: 2018/01/11 00 UTC: 46.0 S / 67.1 E, MAX WIND=040 KT, EXTRATROPICAL
DEPRESSION

48H: 2018/01/11 12 UTC: 49.2 S / 72.9 E, MAX WIND=035 KT, EXTRATROPICAL
DEPRESSION

60H: 2018/01/12 00 UTC: 52.3 S / 78.7 E, MAX WIND=035 KT, EXTRATROPICAL
DEPRESSION

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

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.

THE SYSTEM IS UNDERGOING A MODERATE TO STRONG VERTICAL WESTERLY WINDSHEAR WHILE OCEAN HEAT CONTENT BECOME 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.

THIS IS THE LAST WARNING ABOUT THIS SYSTEM, WHICH WILL BE CLOSELY MONITORED BY BULLETIN FQIO20 FMEE.