

WTIO30 FMEE 080639

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

0.A WARNING NUMBER: 34/1/20172018

1.A MODERATE TROPICAL STORM 1 (AVA)

2.A POSITION 2018/01/08 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 25.3 S / 48.8 E

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

MOVEMENT : SOUTH 8 KT

3.A DVORAK ANALYSIS: 2.5/2.5/D 1.0/6 H

4.A CENTRAL PRESSURE: 988 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

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

28 KT NE: 200 SE: 170 SW: NW:

34 KT NE: 90 SE: 70 SW: NW:

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1005 HPA / 1500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/01/08 18 UTC: 27.3 S / 47.7 E, MAX WIND=040 KT, MODERATE TROPICAL
STORM

24H: 2018/01/09 06 UTC: 29.5 S / 48.0 E, MAX WIND=045 KT, MODERATE TROPICAL
STORM

36H: 2018/01/09 18 UTC: 31.5 S / 49.3 E, MAX WIND=040 KT, MODERATE TROPICAL
STORM

48H: 2018/01/10 06 UTC: 33.9 S / 51.7 E, MAX WIND=030 KT, POST-TROPICAL
DEPRESSION

60H: 2018/01/10 18 UTC: 36.0 S / 55.8 E, MAX WIND=030 KT, POST-TROPICAL
DEPRESSION

72H: 2018/01/11 06 UTC: 37.4 S / 61.8 E, MAX WIND=030 KT, EXTRATROPICAL
DEPRESSION

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

SINCE THIS NIGHT, DEEP CONVECTION HAS RE-BUILT AND HAS MAINTAINED NEAR THE CENTER, LOCATED ESSENTIALLY WITHIN THE EASTERN SEMI-CIRCLE. 0515Z PARTIAL ASCAT SHOWS AGAIN GALE WINDS OVER THE EASTERN SEMI-CIRCLE.

STEERED BY A MID-LATITUDE TROUGH TO ITS SOUTH, EX-AVA MOVES SOUTHWARD. THE SYSTEM IS FORECASTED TO SLOW DOWN TODAY BEFORE RE-ACCELERATE PROGRESSIVELY SOUTHEASTWARD FROM TOMOROW. MODELS ARE NOW IN GOOD AGREEMENT IN THIS TRACK.

AVA SEEMS START A NEW CYCLE OF INTENSIFICATION. ENVIRONNEMENTAL CONDITIONS ARE EXPECTED TO REMAIN CONDUCIVE DURING THE NEXT 24 HOURS WITH A GOOD LEVEL UPPER DIVERGENCE, A WEAK VERTICAL WINDSHEAR BUT WITH AN OCEANIC HEAT CONTENT (OHC) THAT STARTS TO BECOME WEAK. FROM THURSDAY, A MODERATE TO STRONG VERTICAL WESTERN WINDSHEAR SHOULD AFFECT THE SYSTEM WHILE OHC WILL BECOME TOO INSUFFICIENT. AVA SHOULD BEGIN TO INTERACT WITH THE SUBTROPICAL JETSTREAK, EVOLVE PROGRESSIVELY IN WARM SECLUSION AND CONCLUDE ITS EXTRATROPICALISATION PROCESS FROM THURSDAY EVACUATING TOWARDS THE MID-LATITUDES.