

WTIO30 FMEE 060021

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

0.A WARNING NUMBER: 25/1/20172018

1.A OVERLAND DEPRESSION 1 (AVA)

2.A POSITION 2018/01/06 AT 0000 UTC:

WITHIN 30 NM RADIUS OF POINT 19.2 S / 48.3 E

(NINETEEN DECIMAL TWO DEGREES SOUTH AND FORTY EIGHT DECIMAL THREE DEGREES EAST)

MOVEMENT : SOUTH-WEST 7 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 985 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 45 KT

RADIUS OF MAXIMUM WINDS (RMW) :NIL

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

28 KT NE: 170 SE: 330 SW: NW:

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1003 HPA / 1300 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2018/01/06 12 UTC: 20.3 S / 48.3 E, MAX WIND=040 KT, OVERLAND DEPRESSION

24H: 2018/01/07 00 UTC: 22.0 S / 48.3 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

36H: 2018/01/07 12 UTC: 24.0 S / 48.5 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

48H: 2018/01/08 00 UTC: 25.4 S / 47.9 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

60H: 2018/01/08 12 UTC: 26.2 S / 47.4 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

72H: 2018/01/09 00 UTC: 26.9 S / 47.3 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2018/01/10 00 UTC: 28.8 S / 50.0 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

120H: 2018/01/11 00 UTC: 28.0 S / 52.7 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

2.C ADDITIONAL INFORMATION:

SINCE THE LANDFALL WHICH OCCURS, THE SYSTEM TRACKS GLOBALLY SOUTHWARDS, ALONG THE EASTERN COAST. DEEP CONVECTION REMAINS OVER THE CENTER, BUT MAINLY INTO TWO LARGE PERIPHERAL BANDS EXTENDING FAR FROM THE CENTER ONE OVER THE NORTHERN PART OF THE MOZAMBIKAN CHANNEL, THE OTHER BETWEEN MADAGASCAR AND LA REUNION. IMPORTANT THUNDERSTORM RAINFALLS STRIKE THE MAIN PART OF MALAGASY, MAINLY NORTH OF 22S, BUT ALSO THREATEN THE COMOROS ARCHIPELAGO.

AFTER ITS LANDING, THE SYSTEM IS EXPECTED TO LONG THE COAST BEFORE COMING BACK TO SEA AFTER 24 TO 36 HOURS . LATER, THE ARRIVAL OF A MID LATITUDES TROUGH IN THE SOUTH SHOULD SLOW DOWN AVA, WHICH COULD TEMPORARILY MOVE EASTWARD THEN NORTHEASTWARDS AT THE END OF THE PERIOD AS A RIDGE REBUILD SOUTH OF MALAGASY. BUT CONFIDENCE IN THE LONG-TERM FORECAST IS POOR.

WHEN EXITING OVER THE OCEAN, AVA MAY ENCOUNTER VERY FAVORABLE CONDITIONS, WHETHER ATMOSPHERIC OR OCEANIC, FOR A NEW INTENSIFICATION PHASE. A SHORTEST TRACK ON MALAGASY LANDS MAY MAINTAIN MORE IMPORTANT INTENSITY IN THE SYSTEM.