

WTIO30 FMEE 241303  
RSMC / TROPICAL CYCLONE CENTER / LA REUNION  
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 2/7/20182019

1.A MODERATE TROPICAL STORM 7 (EKETSANG)

2.A POSITION 2019/01/24 AT 1200 UTC:

WITHIN 21 NM RADIUS OF POINT 25.5 S / 43.2 E

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

MOVEMENT: SOUTH-EAST 14 KT

3.A DVORAK ANALYSIS: 3.0/3.0/D 0.5/6 H

4.A CENTRAL PRESSURE: 993 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 40 KT

RADIUS OF MAXIMUM WINDS (RMW): 74 KM

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

28 KT NE: 200 SE: 200 SW: 0 NW: 0

34 KT NE: 90 SE: 90 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1003 HPA / 500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/01/25 00 UTC: 27.2 S / 44.7 E, VENT MAX= 040 KT, MODERATE TROPICAL  
STORM

24H: 2019/01/25 12 UTC: 29.3 S / 46.9 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

36H: 2019/01/26 00 UTC: 31.6 S / 50.9 E, VENT MAX= 030 KT, POST-TROPICAL  
DEPRESSION

48H: 2019/01/26 12 UTC: 34.1 S / 54.5 E, VENT MAX= 030 KT, FILLING UP

60H: 2019/01/27 00 UTC: 37.2 S / 58.6 E, VENT MAX= 025 KT, FILLING UP

72H: 2019/01/27 12 UTC: 40.8 S / 63.3 E, VENT MAX= 025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=CI=3.0-

OVER THE LAST 6 HOURS, THE CONVECTION ASSOCIATED WITH THE 07-20182019  
SYSTEM HAS REMAINED WELL PRESENT, EVOLVING IN A CURVED BAND PATTERN.  
THE DVORAK ANALYSIS OF 3.0- ALLOWS TO ESTIMATE WINDS REACHING 40KT. BY  
THIS ANALYSIS, THE SYSTEM REACHED THE THRESHOLD OF MODERATE TROPICAL

STORM AND WAS NAMED EKETSANG BY THE METEOROLOGICAL SERVICE OF MADAGASCAR AT 12UTC. CONVECTION REMAINS STRONG IN THE NORTHERN PART AND EXTENDS QUITE FAR DUE TO CONVERGENCE IN THE MONSOON FLOW PRESENT IN THE CENTRAL PART OF THE MOZAMBIQUE CHANNEL.

NO CHANGE IN TERMS OF TRACK PREDICTION, THE MODELS REMAIN IN GOOD AGREEMENT. THE LOW-LEVEL TROUGH WHICH FLOWS FURTHER SOUTH INDUCES A WELL-DEFINED TRACK : EKETSANG EVACUATES QUICKLY TO THE SOUTHEAST, CAPTURED BY THE TROUGH.

THE INTENSITY OF EKETSANG IS ALMOST AT ITS MAXIMUM. DUE TO ITS DISPLACEMENT, EKETSANG IS GRADUALLY PLACED UNDER THE EFFECT OF A VERTICAL WIND SHEAR WHICH WILL LIMIT ITS INTENSIFICATION AND THEN PROMOTE ITS PROGRESSIVE WEAKENING. FROM FRIDAY EVENING ONWARDS, THE SYSTEM SHOULD EVOLVE INTO A POST-TROPICAL SYSTEM BEFORE FILLING UP AS IT MOVES TOWARDS MORE SOUTHERLY LATITUDES.