

WTIO30 FMEE 241811

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 3/7/20182019

1.A MODERATE TROPICAL STORM 7 (EKETSANG)

2.A POSITION 2019/01/24 AT 1800 UTC:

WITHIN 30 NM RADIUS OF POINT 26.9 S / 43.6 E

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

MOVEMENT: SOUTH-EAST 13 KT

3.A DVORAK ANALYSIS: 2.0/3.0/W 1.0/6 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): NIL

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS:

12H: 2019/01/25 06 UTC: 29.0 S / 46.0 E, VENT MAX= 030 KT, POST-TROPICAL
DEPRESSION

24H: 2019/01/25 18 UTC: 30.4 S / 48.9 E, VENT MAX= 030 KT, POST-TROPICAL
DEPRESSION

36H: 2019/01/26 06 UTC: 32.6 S / 51.9 E, VENT MAX= 040 KT, POST-TROPICAL
DEPRESSION

48H: 2019/01/26 18 UTC: 35.2 S / 55.3 E, VENT MAX= 040 KT, EXTRATROPICAL
DEPRESSION

60H: 2019/01/27 06 UTC: 39.0 S / 58.9 E, VENT MAX= 040 KT, EXTRATROPICAL
DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=2.0 CI=3.0-

1045Z AMSR2 MICROWAVE IMAGERIES SHOWED A EASTERN TILT BETWEEN LOW
LEVEL AND MID/UPPER LEVEL CIRCULATIONS THAT ATTESTS A WESTERN VERTICAL
WINDSHEAR LINKED TO THE UPPER LEVEL TROUGH. 1502Z SSMIS 85 GHZ IMAGERY

CONFIRMS THE CENTER OF THE SYSTEM MORE AT WEST THAT INDICATED IN THE PREVIOUS ADVISORY. MOREOVER, THE TRANSIT OF THE SYSTEM SOUTH OF MADAGASCAR HAS CUT THE MOIST FEEDING OF THE SYSTEM. THUS, SINCE 1400Z, DEEP CONVECTION HAS CONSIDERABLY WEAKENED. FINALLY THE LAST VISIBLE IMAGERIES OF THE DAY HAVE SHOWN THAT THE SYSTEM HAS BEGUN TO INTERACT WITH THE BAROCLINIC ZONE ASSOCIATED TO THE UPPER LEVEL TROUGH.

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 SYSTEM SHOULD QUICKLY LOOSE ITS PURELY TROPICAL CHARACTERISTICS AS IT INTERACTS WITH THE BAROCLINIC ZONE AND THE UPPER LEVEL TROUGH. A FRONTOGENESIS AND A EXTRATROPICALISATION SHOULD START TOMOROW AND ACHIEVE SUNDAY.