

WTIO30 FMEE 190643

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 7/12/20182019

1.A MODERATE TROPICAL STORM 12 (SAVANNAH)

2.A POSITION 2019/03/19 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 18.3 S / 85.7 E

(EIGHTEEN DECIMAL THREE DEGREES SOUTH AND
EIGHTY FIVE DECIMAL SEVEN DEGREES EAST)

MOVEMENT: WEST 8 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 1000 HPA

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

RADIUS OF MAXIMUM WINDS (RMW): 46 KM

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

28 KT NE: 170 SE: 190 SW: 190 NW: 90

34 KT NE: 90 SE: 130 SW: 130 NW:

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: SHALLOW

1.B FORECASTS:

12H: 2019/03/19 18 UTC: 18.6 S / 84.1 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

24H: 2019/03/20 06 UTC: 19.1 S / 83.0 E, VENT MAX= 030 KT, REMNANT LOW

36H: 2019/03/20 18 UTC: 19.3 S / 81.7 E, VENT MAX= 030 KT, REMNANT LOW

48H: 2019/03/21 06 UTC: 19.3 S / 81.0 E, VENT MAX= 030 KT, REMNANT LOW

60H: 2019/03/21 18 UTC: 19.4 S / 79.8 E, VENT MAX= 025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

OVER THE LAST 6 HOURS, CONVECTIVE ACTIVITY IS STILL ABSENT OVER
SAVANNAH CORE. DRY AIR AND VERTICAL WIND SHEAR SUPPRESS THE
CONVECTIVE POTENTIAL OUTSIDE OF THE MAXIMUM CONVERGENCE AREA IN THE
SOUTHEASTERN QUADRANT. HOWEVER ON VISIBLE IMAGERY, THE VORTEX IS
QUITE DEFINED AND SCATTEROMETRIC DATA SUGGEST WINDS SUPERIOR TO 35KT
IN THE SOUTH-EASTERN SEMI-CIRCLE (52KT AT 0023Z SMAP AND 40KT AT 0350Z
ASCAT C).

WITH THE WEAKENING OF SAVANNAH, THE STEERING FLOW IS RAPIDLY COMING

DOWN IN THE LOW-LEVELS WHERE THE STRENGTHENING SUBTROPICAL RIDGE IN THE SOUTH SHOULD CONTINUE TO STEER A GENERALLY WESTSOUTHWESTWARDS TRACK OVER THE NEXT COUPLE OF DAYS. THE MODEL DISPERSION IS LOW.

OVER THE NEXT DAYS, THIS WEST SOUTH WESTERLY CONSTRAINT DOES NOT WEAKEN, PREVENTING CONVECTIVE ACTIVITY FROM A SIGNIFICANT COMING BACK. THE CURRENT WEAKENING IS THUS EXPECTED TO GO ON OVER THE NEXT DAYS AND SYSTEM SHOULD BECOME A REMNANT LOW BY THURSDAY.