

WTIO30 FMEE 280728

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 5/9/20222023

1.A REMNANT LOW 9

2.A POSITION 2023/03/28 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 16.9 S / 63.7 E

(SIXTEEN DECIMAL NINE DEGREES SOUTH AND  
SIXTY THREE DECIMAL SEVEN DEGREES EAST)

MOVEMENT: SOUTH-WEST 2 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 1006 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 30 KT

RADIUS OF MAXIMUM WINDS (RMW): NIL

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

28 KT NE: 0 SE: 240 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: SHALLOW

1.B FORECASTS (WINDS RADII IN KM):

12H: 2023/03/28 18 UTC: 17.4 S / 63.0 E, VENT MAX= 025 KT, REMNANT LOW

24H: 2023/03/29 06 UTC: 17.4 S / 62.2 E, VENT MAX= 020 KT, FILLING UP

36H: 2023/03/29 18 UTC: 17.2 S / 61.3 E, VENT MAX= 020 KT, FILLING UP

48H: 2023/03/30 06 UTC: 16.8 S / 59.4 E, VENT MAX= 015 KT, DISSIPATING

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:QUADRANT

CONVECTIVE ACTIVITY ASSOCIATED WITH SYSTEM 09-20222023 REMAINS LIMITED TO THE NORTHEASTERN QUADRANT OF THE CIRCULATION, MAINLY FAR AWAY FROM THE CENTER, ALTHOUGH A RECENT LOCALIZED CONVECTIVE BURST HAS BEEN OBSERVED SINCE LAST NIGHT IN THE SOUTHEASTERN QUADRANT ABOUT 60 NM FROM THE CENTER. THE WESTERN SEMI-CIRCLE REMAINS INVADED BY MID-TROPOSPHERIC DRY AIR DRAWN BY WIND SHEAR AND THE LLCC REMAINS EXPOSED. BY INERTIA AND WITHOUT ANY SIGNIFICANT CHANGE IN THE SYSTEM'S

PATTERN, MAXIMUM WINDS REMAIN ESTIMATED AT 30KT IN THE SOUTHEASTERN QUADRANT.

AFTER A QUASI-STATIONARY PHASE UNDER THE INFLUENCE OF WEAK AND CONTRADICTORY STEERING FLOWS, THE SYSTEM IS NOW STARTING TO RESUME A SOUTH-WESTWARD TRACK IN CONNECTION WITH A STEERING FLOW MOVING DOWN TO THE LOWER LEVELS AND DRIVEN BY THE SUBTROPICAL RIDGE TO THE SOUTH-EAST. BY MID-WEEK, THE TRACK SHOULD SHIFT WESTWARD AS THE RIDGE EXTENDS TO THE SOUTH OF THE SYSTEM. ACCORDING TO THE MOST LIKELY SCENARIO, THE REMNANT LOW'S CENTER SHOULD THUS TRANSIT QUITE FAR NORTH OF THE MASCARENE ISLANDS, AT APPROXIMATELY 250 KM NORTH-WEST OF RODRIGUES, NEAR 250 TO 300 KM NORTH OF MAURITIUS AND MORE THAN 400 KM NORTH OF LA REUNION.

NO CHANGE IN THE INTENSITY FORECAST : THE MASSIVE DRY AIR INVASION ABOVE THE LOW LEVEL WARM CORE SHOULD CONTINUE AND MAINTAIN A GRADUAL WEAKENING TREND. DESPITE SLIGHTLY DECREASING WIND SHEAR IN THE COMING DAYS AND GOOD OCEANIC POTENTIAL, THE VERY POOR SURFACE CONVERGENCE AND THE PRESENCE OF VERY DRY AIR IN THE SYSTEM'S ENVIRONMENT SHOULD PREVENT ANY REINTENSIFICATION, ALTHOUGH SOME OCCASIONAL SHORT-LIVED CONVECTIVE BURSTS COULD STILL OCCUR. UNDER THESE CONDITIONS, THE SYSTEM SHOULD GRADUALLY WEAKEN BEFORE DISSIPATING WITHIN A LOW-LEVEL TROUGH AS THE CIRCULATION BECOMES MORE AND MORE ELONGATED.

THIS SYSTEM DOES NOT PRESENT ANY PARTICULAR DANGER FOR INHABITED LANDS ALTHOUGH IT COULD CAUSE MODERATELY DISTURBED WEATHER CONDITIONS OVER THE MASCARENE ARCHIPELAGO. INHABITANTS ARE HOWEVER INVITED TO REMAIN INFORMED OF THE SITUATION.

THIS WARNING IS THE LAST ABOUT THIS SYSTEM.