

WTIO30 FMEE 040630

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 11/2/20242025

1.A MODERATE TROPICAL STORM 2 (ANCHA)

2.A POSITION 2024/10/04 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 14.8 S / 68.1 E

(FOURTEEN DECIMAL EIGHT DEGREES SOUTH AND
SIXTY EIGHT DECIMAL ONE DEGREES EAST)

MOVEMENT: SOUTH-WEST 12 KT

3.A DVORAK ANALYSIS: 2.0/2.0/D 0.5/6 H

4.A CENTRAL PRESSURE: 1003 HPA

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

RADIUS OF MAXIMUM WINDS (RMW): NIL

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

28 KT NE: 0 SE: 285 SW: 165 NW: 85

34 KT NE: 0 SE: 0 SW: 120 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2024/10/04 18 UTC: 15.8 S / 66.9 E, VENT MAX= 030 KT, FILLING UP

28 KT NE: 100 SE: 285 SW: 165 NW: 0

24H: 2024/10/05 06 UTC: 16.4 S / 66.5 E, VENT MAX= 025 KT, FILLING UP

36H: 2024/10/05 18 UTC: 16.6 S / 65.7 E, VENT MAX= 025 KT, REMNANT LOW

48H: 2024/10/06 06 UTC: 16.7 S / 65.0 E, VENT MAX= 020 KT, REMNANT LOW

60H: 2024/10/06 18 UTC: 16.6 S / 64.4 E, VENT MAX= 020 KT, REMNANT LOW

72H: 2024/10/07 06 UTC: 16.3 S / 63.5 E, VENT MAX= 020 KT, REMNANT LOW

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

FT=2.0 CI=2.0

SINCE 21 UTC, INTENSE CONVECTIVE ACTIVITY HAS GRADUALLY ESTABLISHED WITHIN THE REMNANT CIRCULATION OF ANCHA. STARTING IN THE SOUTHEASTERN QUADRANT, THIS ACTIVITY HAS PROPAGATED INTO THE SOUTHWESTERN QUADRANT AS IT STRENGTHENED. THE IMPACT ON THE INTENSITY OF THE SYSTEM OF THIS EVENT HAS BEEN SIGNIFICANT AS EVIDENCED BY THE TWO ASCAT PASSES OF LAST NIGHT AND THIS MORNING. THE ASCAT-B AT 0410Z SHOWS MORE WIDESPREAD WINDS AT 30 KT WITHIN THE CIRCULATION (EXCEPT NORTHEASTERN QUADRANT) AND RELIABLE WINDS AT 35-40 KT IN THE SOUTHWESTERN QUADRANT. AS CONVECTIVE ACTIVITY CONTINUES, ANCHA IS AGAIN RECLASSIFIED AS A MODERATE TROPICAL STORM AT 06 UTC.

DESPITE THIS HITCH IN THE INTENSITY EVOLUTION, THE GENERAL PHILOSOPHY OF THE TRACK FORECAST DOES NOT CHANGE: THE SYSTEM IS CURRENTLY SURFING ON THE NORTHWESTERN EDGE OF A LOW LEVELS SUBTROPICAL RIDGE BUT THE IMMINENT ARRIVAL OF A SIGNIFICANT WEAKNESS WITHIN THIS RIDGE WILL GRADUALLY SLOW DOWN THE SOUTHWESTERN TRACK OF THE SYSTEM WITHIN A BAROMETRIC COL SITUATION. SUNDAY AND BEYOND, THE REMNANT LOW IS EXPECTED TO RESUME TOWARDS THE WEST-NORTHWEST WITHIN THE TRADE WINDS FLOW.

DESPITE YESTERDAY'S STRONG INTRUSION OF DRY AIR, ANCHA HAS TAKEN ADVANTAGE OF WEAK DEEP SHEAR AND A DECREASE IN MID-TROPOSPHERIC SHEAR TO RE-INTENSIFY (DESPITE A MORE THAN LIMITED OCEANIC POTENTIAL WITH SURFACE WATERS BARELY AT 26C). THIS INTENSIFICATION SHOULD BE SHORT-LIVED BECAUSE FROM NEXT NIGHT, IN ADDITION TO A FURTHER WEAKENING OCEANIC POTENTIAL, DEEP AND MID-TROPOSPHERIC SHEAR WILL START TO RISE AGAIN. THIS EVOLUTION SHOULD LEAD THE SYSTEM TO RE-BECOME A DEPRESSION THAT WILL FILL IN A RELATIVELY SHORT PERIOD (BY NEXT NIGHT AT THE LATEST)

NO IMPACTS ARE EXPECTED ON INHABITED LANDS.