

WTIO30 FMEE 021230

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 13/5/20232024

1.A ZONE OF DISTURBED WEATHER 5

2.A POSITION 2024/02/02 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 20.4 S / 69.3 E

(TWENTY DECIMAL FOUR DEGREES SOUTH AND  
SIXTY NINE DECIMAL THREE DEGREES EAST)

MOVEMENT: SOUTH-EAST 8 KT

3.A DVORAK ANALYSIS: 1.5/2.5/W 1.0/12 H

4.A CENTRAL PRESSURE: 1000 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: 280 SE: 335 SW: 480 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 900 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2024/02/03 00 UTC: 22.8 S / 71.4 E, VENT MAX= 030 KT, POST-TROPICAL  
DEPRESSION

28 KT NE: 280 SE: 335 SW: 390 NW: 0

24H: 2024/02/03 12 UTC: 26.9 S / 74.0 E, VENT MAX= 035 KT, POST-TROPICAL  
DEPRESSION

28 KT NE: 350 SE: 405 SW: 280 NW: 185

34 KT NE: 165 SE: 165 SW: 0 NW: 0

36H: 2024/02/04 00 UTC: 32.1 S / 76.5 E, VENT MAX= 040 KT, EXTRATROPICAL  
DEPRESSION

28 KT NE: 520 SE: 630 SW: 370 NW: 260

34 KT NE: 280 SE: 295 SW: 260 NW: 165

48H: 2024/02/04 12 UTC: 36.1 S / 77.8 E, VENT MAX= 045 KT, EXTRATROPICAL  
DEPRESSION

28 KT NE: 575 SE: 610 SW: 480 NW: 345

34 KT NE: 305 SE: 315 SW: 280 NW: 205

60H: 2024/02/05 00 UTC: 39.4 S / 80.3 E, VENT MAX= 045 KT, EXTRATROPICAL  
DEPRESSION

28 KT NE: 665 SE: 650 SW: 445 NW: 370  
34 KT NE: 295 SE: 390 SW: 315 NW: 205

72H: 2024/02/05 12 UTC: 41.5 S / 84.6 E, VENT MAX= 045 KT, EXTRATROPICAL  
DEPRESSION

28 KT NE: 555 SE: 595 SW: 445 NW: 405  
34 KT NE: 295 SE: 370 SW: 315 NW: 280

2.B LONGER-RANGE OUTLOOK:  
NIL

2.C ADDITIONAL INFORMATION:  
T=1.5 CI=2.5

AFTER ITS TEMPORARY INTENSIFICATION ON THURSDAY NIGHT, THE SYSTEM HAS NOW CLEARLY BROKEN UP THIS FRIDAY BETWEEN 06 AND 12UTC. DUE TO INCREASING WEST-NORTH-WESTERLY SHEAR AND MASSIVE DRY AIR ADVECTION FROM THE WEST, DEEP CONVECTION IS NOW LOCATED MORE 100 NM EAST OF AN EXPOSED AND ELONGATED LOW-LEVEL CENTER, BROKEN UP INTO SEVERAL SMALL SECONDARY VORTICES. DUE TO INERTIA, THE INTENSITY IS LEFT AT 30KT AND THE SYSTEM IS CLASSIFIED AS A ZONE OF DISTURBED WEATHER. ITS DESTRUCTURATION AND ASYMMETRIZATION SEEM TO SHOW THAT IT IS BEGINNING TO LOSE ITS FULLY TROPICAL CHARACTERISTICS.

THE SYSTEM IS MOVING SOUTHEASTWARD THEN SOUTH-SOUTHEASTWARD, STEARED BY A MID-TROPOSPHERE TROUGH TO ITS SOUTH-WEST THEN WEST. IT WILL THEREFORE GRADUALLY LEAVE THE TROPICAL DOMAIN AND EXIT TOWARDS THE SOUTHERN MID-LATITUDES BY SUNDAY EVENING, PASSING CLOSE TO THE ISLAND OF AMSTERDAM.

IN TERMS OF INTENSITY, INCREASING WIND SHEAR AND INTERACTION WITH AN UPPER TROUGH SHOULD MAKE THE SYSTEM BECOME POST-TROPICAL OVERNIGHT, THEN IT SHOULD INTENSIFY THROUGH BAROCLINIC PROCESSES FROM SATURDAY ONWARDS WHILE BECOMING EXTRATROPICAL BY SUNDAY AND MONDAY, WITH WINDS ABOVE GALE INTENSITY AND A WIDENING OF THE AREA OF STRONG WINDS.

EXPECTED IMPACTS ON AMSTERDAM ISLAND :

- GALE FORCE WINDS (35-40KT LIKELY, TEMPORARILY 45KT POSSIBLE) FROM SUNDAY 06UTC UNTIL MONDAY 06UTC.
- WAVE HEIGHTS OF 4 TO 6 METERS ON SUNDAY AND UNTIL MONDAY MORNING (PEAK ON SUNDAY EVENING).

LAST BULLETIN ISSUED BY RSMC LA REUNION ON THIS SYSTEM, UNLESS RE-INTENSIFICATION. FURTHER INFORMATION ON THIS SYSTEM WILL BE AVAILABLE IN THE DAILY BULLETIN ON TROPICAL WEATHER CONDITIONS OVER THE SOUTHWEST INDIAN OCEAN ISSUED AT 12Z (AWIO20 FMEE).