

WTIO30 FMEE 291815

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 18/4/20232024

1.A INTENSE TROPICAL CYCLONE 4 (ANGGREK)

2.A POSITION 2024/01/29 AT 1800 UTC:

WITHIN 20 NM RADIUS OF POINT 26.4 S / 70.9 E

(TWENTY SIX DECIMAL FOUR DEGREES SOUTH AND
SEVENTY DECIMAL NINE DEGREES EAST)

MOVEMENT: SOUTH 13 KT

3.A DVORAK ANALYSIS: 5.5/5.5/W 0.5/24 H

4.A CENTRAL PRESSURE: 956 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 90 KT

RADIUS OF MAXIMUM WINDS (RMW): 20 KM

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

28 KT NE: 165 SE: 185 SW: 140 NW: 110

34 KT NE: 110 SE: 120 SW: 100 NW: 75

48 KT NE: 75 SE: 75 SW: 60 NW: 55

64 KT NE: 45 SE: 45 SW: 45 NW: 35

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):

12H: 2024/01/30 06 UTC: 28.8 S / 72.3 E, VENT MAX= 075 KT, TROPICAL CYCLONE

28 KT NE: 240 SE: 195 SW: 155 NW: 165

34 KT NE: 120 SE: 110 SW: 130 NW: 95

48 KT NE: 65 SE: 75 SW: 65 NW: 45

64 KT NE: 45 SE: 45 SW: 45 NW: 35

24H: 2024/01/30 18 UTC: 30.5 S / 75.4 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM

28 KT NE: 260 SE: 165 SW: 165 NW: 185

34 KT NE: 130 SE: 95 SW: 110 NW: 100

48 KT NE: 55 SE: 55 SW: 55 NW: 45

36H: 2024/01/31 06 UTC: 31.9 S / 80.6 E, VENT MAX= 055 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 295 SE: 155 SW: 250 NW: 240

34 KT NE: 150 SE: 95 SW: 120 NW: 140

48 KT NE: 65 SE: 55 SW: 45 NW: 45

48H: 2024/01/31 18 UTC: 34.8 S / 88.6 E, VENT MAX= 055 KT, POST-TROPICAL

DEPRESSION

28 KT NE: 370 SE: 165 SW: 215 NW: 305
34 KT NE: 185 SE: 100 SW: 140 NW: 175
48 KT NE: 75 SE: 55 SW: 35 NW: 65

60H: 2024/02/01 06 UTC: 41.4 S / 99.2 E, VENT MAX= 055 KT, EXTRATROPICAL
DEPRESSION

28 KT NE: 490 SE: 230 SW: 110 NW: 220
34 KT NE: 270 SE: 140 SW: 85 NW: 85
48 KT NE: 95 SE: 65 SW: 65 NW: 35

2.B LONGER-RANGE OUTLOOK:
NIL

2.C ADDITIONAL INFORMATION:
T=5.5- CI=5.5+

OVER THE LAST 6 HOURS, ANGGREK HAS MAINTAINED A WELL-DEFINED EYE PATTERN, BUT CLOUD TOPS HAVE WARMED SLIGHTLY, PROBABLY IN CONNECTION WITH THE DECREASING OCEANIC POTENTIAL SOUTH OF 25S. THE CLOUD MASS TENDS TO BECOME MORE ASYMMETRICAL AND EXPANDING SOUTHWARD DUE TO INCREASING WIND SHEAR. INTENSITY IS ESTIMATED AT 90KT, IN LINE WITH AVAILABLE SUBJECTIVE AND OBJECTIVE ESTIMATES AND CONSISTENT WITH THE 1643Z ASCAT-C PASS.

NO CHANGE IN THE TRACK FORECAST. ANGGREK IS STARTING A SOUTHEASTWARD TURN DUE TO A NORTH-WESTERLY FLOW DRIVEN JOINTLY BY A TROUGH TO THE WEST OF THE SYSTEM AND BY THE RIDGE TO THE EAST. BY MID-WEEK, IT SHOULD ACCELERATE FURTHER TOWARDS THE SOUTHERN LATITUDES WHILE MERGING INTO THE RAPID MID-LATITUDES STORM TRACK.

ANGGREK IS BEGINNING TO SHOW SIGNS OF WEAKENING, WHICH SHOULD INCREASE FROM TUESDAY ONWARDS AS A RESULT OF INCREASING SHEAR AND A RAPID DROP IN OCEAN HEAT CONTENT. UNDER THE EFFECT OF ACTIVE BAROCLINIC PROCESSES, IT SHOULD GRADUALLY LOSE ITS TROPICAL CHARACTERISTICS FROM WEDNESDAY ONWARDS, BUT STILL RETAIN SIGNIFICANT INTENSITY, THUS BECOMING A POWERFUL EXTRATROPICAL STORM BY THURSDAY WITH WINDS REMAINING ABOVE STORM STRENGTH.

ANGGREK DOES NOT THREAT INHABITED LANDS.