

WTIO30 FMEE 300036

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 19/4/20232024

1.A TROPICAL CYCLONE 4 (ANGGREK)

2.A POSITION 2024/01/30 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 27.9 S / 71.5 E

(TWENTY SEVEN DECIMAL NINE DEGREES SOUTH AND
SEVENTY ONE DECIMAL FIVE DEGREES EAST)

MOVEMENT: SOUTH-SOUTH-EAST 15 KT

3.A DVORAK ANALYSIS: 4.5/5.5/W 1.0/6 H

4.A CENTRAL PRESSURE: 961 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 85 KT

RADIUS OF MAXIMUM WINDS (RMW): 24 KM

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

28 KT NE: 165 SE: 155 SW: 140 NW: 120

34 KT NE: 120 SE: 110 SW: 100 NW: 85

48 KT NE: 85 SE: 75 SW: 60 NW: 65

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

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 12 UTC: 30.0 S / 74.0 E, VENT MAX= 065 KT, TROPICAL CYCLONE

28 KT NE: 240 SE: 155 SW: 175 NW: 165

34 KT NE: 120 SE: 95 SW: 110 NW: 85

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

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

24H: 2024/01/31 00 UTC: 31.3 S / 78.0 E, VENT MAX= 055 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 270 SE: 155 SW: 230 NW: 215

34 KT NE: 140 SE: 95 SW: 140 NW: 110

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

36H: 2024/01/31 12 UTC: 33.1 S / 84.9 E, VENT MAX= 055 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 325 SE: 120 SW: 215 NW: 270

34 KT NE: 165 SE: 65 SW: 110 NW: 155

48 KT NE: 65 SE: 45 SW: 35 NW: 55

48H: 2024/02/01 00 UTC: 38.0 S / 94.7 E, VENT MAX= 055 KT, EXTRATROPICAL
DEPRESSION
28 KT NE: 425 SE: 240 SW: 150 NW: 260
34 KT NE: 215 SE: 155 SW: 120 NW: 165
48 KT NE: 55 SE: 55 SW: 35 NW: 0

60H: 2024/02/01 12 UTC: 45.3 S / 105.6 E, VENT MAX= 055 KT, EXTRATROPICAL
DEPRESSION
28 KT NE: 555 SE: 315 SW: 240 NW: 415
34 KT NE: 315 SE: 205 SW: 185 NW: 230
48 KT NE: 120 SE: 85 SW: 85 NW: 95

2.B LONGER-RANGE OUTLOOK:
NIL

2.C ADDITIONAL INFORMATION:
T=4.5 CI=5.5

OVER THE LAST 6 HOURS, ANGGREK'S EYE PATTERN HAS CONTINUED TO
DETERIORATE SLIGHTLY WITH WARMING CLOUD TOPS AND A MORE
ASYMMETRICAL STRUCTURE DUE TO INCREASING WIND SHEAR. THE INNER CORE
REMAINS QUITE STRONG THOUGH, AS THE 2012Z AMSR2 PASS SHOWS. INTENSITY IS
DECREASED AT 85KT, IN LINE WITH SUBJECTIVE DVORAK ANALYSIS AND
AVAILABLE OBJECTIVE INTENSITY ESTIMATES.

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 A RIDGE TO THE EAST. BY MID-WEEK, IT SHOULD
ACCELERATE 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.