

WTIO30 FMEE 300725

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 20/4/20232024

1.A TROPICAL CYCLONE 4 (ANGGREK)

2.A POSITION 2024/01/30 AT 0600 UTC:

WITHIN 30 NM RADIUS OF POINT 29.1 S / 72.5 E

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

MOVEMENT: SOUTH-EAST 15 KT

3.A DVORAK ANALYSIS: 4.0/5.0/W 0.5/6 H

4.A CENTRAL PRESSURE: 965 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 80 KT

RADIUS OF MAXIMUM WINDS (RMW): 24 KM

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

28 KT NE: 165 SE: 155 SW: 185 NW: 185

34 KT NE: 130 SE: 110 SW: 100 NW: 120

48 KT NE: 75 SE: 55 SW: 50 NW: 75

64 KT NE: 45 SE: 35 SW: 35 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 18 UTC: 30.7 S / 75.7 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM

28 KT NE: 270 SE: 150 SW: 175 NW: 205

34 KT NE: 140 SE: 95 SW: 110 NW: 100

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

24H: 2024/01/31 06 UTC: 32.2 S / 80.7 E, VENT MAX= 055 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 305 SE: 165 SW: 230 NW: 270

34 KT NE: 155 SE: 95 SW: 120 NW: 150

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

36H: 2024/01/31 18 UTC: 34.9 S / 88.8 E, VENT MAX= 050 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 380 SE: 185 SW: 215 NW: 315

34 KT NE: 195 SE: 110 SW: 140 NW: 165

48 KT NE: 75 SE: 35 SW: 0 NW: 55

48H: 2024/02/01 06 UTC: 41.5 S / 99.5 E, VENT MAX= 050 KT, EXTRATROPICAL

DEPRESSION

28 KT NE: 585 SE: 535 SW: 260 NW: 285
34 KT NE: 305 SE: 360 SW: 230 NW: 110
48 KT NE: 95 SE: 55 SW: 45 NW: 75

2.B LONGER-RANGE OUTLOOK:
NIL

2.C ADDITIONAL INFORMATION:
T=4.5 CI=5.0

SHORTLY AFTER 00Z, THE ANGGREK EYE PATTERN GRADUALLY DISSIPATED, COUPLED WITH WARMING CLOUD TOPS AND ASYMMETRICAL CONVECTION GRADUALLY PUSHED BACK TO THE SOUTHEAST OF THE LOW-LEVEL CENTER UNDER THE EFFECT OF STRONG NORTHWESTERLY SHEAR, WHICH HAS BEEN INCREASING OVER THE LAST 24 HOURS ACCORDING TO THE LATEST CIMSS DATA. FMEE'S SUBJECTIVE ANALYSIS PUTS THE AVERAGE WIND INTENSITY AT AROUND 80 KT; A VALUE SUPPORTED BY THE CALIBRATED ASCAT PASS AT 0444Z, WITH WINDS OF AROUND 80/85 KT MAXIMUM, WHICH REMAINS CONSISTENT WITH THE COLLAPSE OF OBJECTIVE US INTENSITY ESTIMATES SINCE THE PREVIOUS EVENING.

NO CHANGE IN THE TRACK FORECAST. ANGGREK NOW HEADING SOUTHEASTWARDS 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 SHOWING SIGNS OF WEAKENING, WHICH SHOULD INCREASE FROM TUESDAY ONWARDS AS A RESULT OF INCREASING SHEAR AND A LACK 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 LANDS0