

WTIO30 FMEE 271210

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 3/1/20222023

1.A MODERATE TROPICAL STORM 1 (ASHLEY)

2.A POSITION 2022/09/27 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 13.5 S / 79.9 E
(THIRTEEN DECIMAL FIVE DEGREES SOUTH AND
SEVENTY NINE DECIMAL NINE DEGREES EAST)

MOVEMENT: WEST-SOUTH-WEST 10 KT

3.A DVORAK ANALYSIS: 2.0/2.0/W 0.5/24 H

4.A CENTRAL PRESSURE: 1001 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: 220 SW: 280 NW: 0

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

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

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/09/28 00 UTC: 14.2 S / 77.0 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

28 KT NE: 0 SE: 220 SW: 215 NW: 0

34 KT NE: 0 SE: 110 SW: 110 NW: 0

24H: 2022/09/28 12 UTC: 15.3 S / 74.8 E, VENT MAX= 030 KT, FILLING UP

28 KT NE: 0 SE: 220 SW: 215 NW: 0

36H: 2022/09/29 00 UTC: 16.2 S / 72.8 E, VENT MAX= 025 KT, REMNANT LOW

48H: 2022/09/29 12 UTC: 17.0 S / 71.0 E, VENT MAX= 025 KT, REMNANT LOW

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=2.0 CI=2.0

DURING THE LAST HOURS, THE CONVECTIVE ACTIVITY OF TROPICAL STORM ASHLEY SLIGHTLY DECREASED BUT IS STILL PRESENT IN THE SOUTHWEST QUADRANT OF THE SYSTEM. WITH THE STILL MODERATE TO STRONG NORTHEASTERLY UPPER SHEAR (20KT ACCORDING TO CIMSS DATA), THE LOW LEVEL CENTER CONTINUES TO BE EXPOSED. WITHOUT ANY NEW DATA (ASCAT OR MICROWAVE), THE MAXIMUM WINDS ARE MAINTAINED AT 40KT.

IN TERMS OF TRAJECTORY, THE SUBTROPICAL RIDGE THAT WAS DRIVING THE WESTWARD FLOW IS PROGRESSIVELY SHIFTING EASTWARD AND BECOMING MORE NORTHEAST/SOUTHWEST ORIENTED. ASHLEY SHOULD THEREFORE HAVE A MORE WEST-SOUTH-WEST TO SOUTH-WEST TRAJECTORY FOR THE NEXT 48 HOURS.

IN TERMS OF INTENSITY, ASHLEY REACHED ITS PEAK IN THE LAST HOURS AND SHOULD PROGRESSIVELY WEAKEN. INDEED, THE STRONG SHEAR AND THE DRY AIR INTRUSIONS WILL FAVOUR AN EVOLUTION INTO A RESIDUAL SYSTEM WITHIN THE NEXT 48H.

ASHLEY DOES NOT THREATEN POPULATED AREAS.