

WTIO30 FMEE 270708

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 2/1/20222023

1.A MODERATE TROPICAL STORM 1 (ASHLEY)

2.A POSITION 2022/09/27 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 13.1 S / 80.8 E

(THIRTEEN DECIMAL ONE DEGREES SOUTH AND
EIGHTY DECIMAL EIGHT DEGREES EAST)

MOVEMENT: 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: 165 SW: 335 NW: 150

34 KT NE: 0 SE: 100 SW: 220 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: 2022/09/27 18 UTC: 13.7 S / 78.6 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

28 KT NE: 0 SE: 215 SW: 285 NW: 0

34 KT NE: 0 SE: 0 SW: 140 NW: 0

24H: 2022/09/28 06 UTC: 14.6 S / 75.9 E, VENT MAX= 030 KT, FILLING UP

28 KT NE: 0 SE: 130 SW: 230 NW: 0

36H: 2022/09/28 18 UTC: 15.5 S / 73.9 E, VENT MAX= 025 KT, REMNANT LOW

48H: 2022/09/29 06 UTC: 16.5 S / 71.7 E, VENT MAX= 020 KT, REMNANT LOW

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

OVER THE LAST FEW HOURS, CONVECTIVE ACTIVITY MAINTAINED MAINLY IN THE

SOUTH WESTERN QUADRANT IN RELATION WITH A DEEP NORTHEASTERLY SHEAR STILL MODERATE TO STRONG (20KT ACCORDING TO CIMSS DATA). A LARGE PART OF THE LOW LEVEL CIRCULATION IS EXPOSED. NEVERTHELESS, THE SYSTEM MOVEMENT IN THE SAME DIRECTION AS SHEAR AS WELL AS THE CONVECTIVE ACTIVITY ALLOWED THE INTENSIFICATION OF THE SYSTEM. LAST NIGHT'S AND THIS MORNING'S ASCAT SWATHS SHOW THE PRESENCE OF GALE FORCE WINDS, ESPECIALLY IN THE SOUTH WESTERN QUADRANT. THE SYSTEM HAS BEEN NAMED ASHLEY BY THE MAURITIAN METEOROLOGICAL SERVICE.

IN TERMS OF TRACK, ASHLEY IS MOVING ON THE EDGE OF THE SUBTROPICAL RIDGE GENERATING A WESTWARD MOVEMENT CURRENTLY. WITH THE EASTWARD SHIFT OF THESE HIGH PRESSURES, THE SYSTEM SHOULD RESUME A WEST-SOUTHWESTWARD TRACK.

ASHLEY SEEMS TO HAVE REACHED ITS PEAK INTENSITY AND SHOULD WEAKEN IN THE NEXT FEW HOURS, STILL UNDER THE UNFAVORABLE INFLUENCE OF THE STRONG SHEAR AND DRY AIR INTRUSIONS. THE SYSTEM SHOULD EVOLVE INTO A RESIDUAL SYSTEM BY THE END OF THE WEEK.