

WTIO30 FMEE 050126

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 3/3/20212022

1.A MODERATE TROPICAL STORM 3 (CLIFF)

2.A POSITION 2022/02/05 AT 0000 UTC:

WITHIN 30 NM RADIUS OF POINT 19.1 S / 83.3 E

(NINETEEN DECIMAL ONE DEGREES SOUTH AND

EIGHTY THREE DECIMAL THREE DEGREES EAST)

MOVEMENT: SOUTH-WEST 4 KT

3.A DVORAK ANALYSIS: 2.5/3.0/W 0.5/6 H

4.A CENTRAL PRESSURE: 994 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: 465 SW: 405 NW: 130

34 KT NE: 0 SE: 315 SW: 260 NW: 95

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1004 HPA / 1300 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/02/05 12 UTC: 19.6 S / 82.4 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM

28 KT NE: 0 SE: 315 SW: 470 NW: 0

34 KT NE: 0 SE: 95 SW: 195 NW: 0

24H: 2022/02/06 00 UTC: 20.2 S / 80.6 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

28 KT NE: 0 SE: 260 SW: 350 NW: 0

36H: 2022/02/06 12 UTC: 20.7 S / 78.6 E, VENT MAX= 025 KT, ZONE OF DISTURBED WEATHER

48H: 2022/02/07 00 UTC: 21.3 S / 76.9 E, VENT MAX= 025 KT, ZONE OF DISTURBED WEATHER

60H: 2022/02/07 12 UTC: 22.0 S / 75.0 E, VENT MAX= 025 KT, ZONE OF DISTURBED WEATHER

72H: 2022/02/08 00 UTC: 22.9 S / 73.0 E, VENT MAX= 025 KT, ZONE OF DISTURBED WEATHER

2.B LONGER-RANGE OUTLOOK:

96H: 2022/02/09 00 UTC: 24.3 S / 69.4 E, VENT MAX= 025 KT, ZONE OF DISTURBED WEATHER

120H: 2022/02/10 00 UTC: 24.3 S / 65.9 E, VENT MAX= 020 KT, REMNANT LOW

2.C ADDITIONAL INFORMATION:

T=2.5;CI=3.0-

DURING THE LAST 6 HOURS, CLIFF'S CLOUD PATTERN HAS DETERIORATED AND THE BANDING FEATURES HAVE ALMOST GONE AS CONVECTION IS BEING CLEARLY OFFSET SOUTHWARD UNDER THE EFFECTS OF INCREASING NORTHERLY WIND SHEAR. INTENSITY IS KEPT AT 40KT BECAUSE OF THE CIRCULATION'S INERTIA BUT SHOULD SOON DECREASE.

CLIFF IS MOVING SLOWLY MOVING SOUTH-WESTWARD THIS SATURDAY THEN WILL MOVE MORE FRANKLY TO THE WEST-SOUTH-WEST WHILE ACCELERATING IN THE NEXT FEW DAYS UNDER THE COMBINED INFLUENCES OF STEERING FLOWS GENERATED BY SEVERAL RIDGES SURROUNDING THE SYSTEM ON ITS EASTERN AND SOUTHERN SECTORS. THE LOW-LEVEL SUBTROPICAL RIDGE WILL END UP BEING THE MAIN DRIVER NEXT WEEK AS THE SYSTEM SIGNIFICANTLY WEAKENS. ITS FORECAST LEAVES IT FAR FROM FROM INHABITED LANDS.

THE SHORT-LIVED WINDOW OF INTENSIFICATION WHICH ALLOWED TROPICAL STORM CLIFF TO FORM SHOULD CLOSE FAIRLY QUICKLY. FROM THIS SATURDAY ONWARDS, INCREASING NORTHWESTERLY SHEAR SHOULD FORCE INTRUSION OF DRY AIR FROM THE WESTERN SIDE OF THE SYSTEM AND SHOULD WEAKEN IT DURABLY. A REMNANT LOW SHOULD PERSIST NEXT WEEK, WITH REMAINING 20/25KT WINDS IN ITS SOUTHERN SEMI-CIRCLE BY GRADIENT EFFECT.