WTIO30 FMEE 231315
RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 8/1/20212022
1.A TROPICAL DEPRESSION 1

2.A POSITION 2022/01/23 AT 1200 UTC:
WITHIN 30 NM RADIUS OF POINT 15.3 S / 44.1 E
(FIFTEEN DECIMAL THREE DEGREES SOUTH AND
FORTY FOUR DECIMAL ONE DEGREES EAST)
MOVEMENT: WEST-NORTH-WEST 11 KT

3.A DVORAK ANALYSIS: 1.5/1.5/D 0.5/6 H

4.A CENTRAL PRESSURE: 999 HPA
5.A MAX AVERAGE WIND SPEED (10 MN): 30 KT
RADIUS OF MAXIMUM WINDS (RMW): NIL

6.A EXTENSION OF WIND BY QUADRANTS (KM):
28 KT NE: 220 SE: 165 SW: 185 NW: 185

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 900 KM
8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):
12H: 2022/01/24 00 UTC: 15.8 S / 42.2 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM
28 KT NE: 240 SE: 280 SW: 250 NW: 195
34 KT NE: 100 SE: 150 SW: 140 NW: 95

24H: 2022/01/24 12 UTC: 15.9 S / 39.5 E, VENT MAX= 030 KT, TROPICAL DEPRESSION
28 KT NE: 0 SE: 260 SW: 0 NW: 0

36H: 2022/01/25 00 UTC: 16.0 S / 37.0 E, VENT MAX= 030 KT, OVERLAND DEPRESSION
28 KT NE: 0 SE: 315 SW: 0 NW: 0

48H: 2022/01/25 12 UTC: 16.2 S / 35.0 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

60H: 2022/01/26 00 UTC: 16.2 S / 33.8 E, VENT MAX= 025 KT, OVERLAND DEPRESSION
72H: 2022/01/26 12 UTC: 16.2 S / 32.5 E, VENT MAX= 020 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:
96H: 2022/01/27 12 UTC: 16.6 S / 29.2 E, VENT MAX= 015 KT, FILLING UP

120H: 2022/01/28 12 UTC: 17.0 S / 25.8 E, VENT MAX= 015 KT, REMNANT LOW
2.C ADDITIONAL INFORMATION:


THE SYSTEM IS CURRENTLY TRACKING NORTHWESTWARD UNDER THE EFFECT OF A LOW-LEVEL EASTERLY FLOW GENERATED BY THE HIGH GEOPOTENTIALS OF THE LOW AND MIDDLE TROPOSPHERE STRENGTHENING SOUTH OF THE MOZAMBIQUE CHANNEL. NEXT WEEK, THE SYSTEM WILL HEAD TOWARDS THE MOZAMBIQUE COASTS, WHICH IT WILL REACH ON MONDAY MIDDAY. THEN, WITH THE SHIFT OF THE HIGH GEOPOTENTIALS TO THE SOUTHEAST OF MADAGASCAR, THE STEERING FLOW WILL TAKE A SLIGHT EAST-SOUTHEAST COMPONENT, TAKING THE SYSTEM LONGER INLAND FROM MOZAMBIQUE. THEN THE REMNANT LOW WILL TRACK NEAR SOUTHERN MALAWI AND NORTHERN ZIMBABWE BY MIDWEEK. THE CMRS FORECAST IS BASED ON A CONSENSUS BETWEEN THE BEST AVAILABLE GUIDANCE, WHOSE DISPERSION IS LOW COMPARED TO PREVIOUS NWP DATA, INDUCING A FAIRLY GOOD CONFIDENCE ON THE TRACK LEADING TO MOZAMBIQUE. HOWEVER, THIS CONFIDENCE IS LESS STRONG BY TUESDAY IN THE SOUTH OF MALAWI.


EXPECTED CONSEQUENCES ON THE INHABITED LANDS:

- MOZAMBIQUE (AND NEIGHBORING COUNTRIES INLAND): COASTAL GUSTS OF MORE THAN 100 KM/H POSSIBLE TODAY AND ESPECIALLY ON MONDAY WHEN THE SYSTEM LANDS BETWEEN ANGOCHE AND MOZAMBIQUE ISLAND. SIGNIFICANT RAINFALL AMOUNTS NORTH OF QUELIMANE AT FIRST THEN FURTHER INLAND TO SOUTHERN MALAWI OVERFLOWING INTO CENTRAL MOZAMBIQUE.