

WTIO30 FMEE 241254

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 12/1/20212022

1.A MODERATE TROPICAL STORM 1 (ANA)

2.A POSITION 2022/01/24 AT 1200 UTC:

WITHIN 30 NM RADIUS OF POINT 16.4 S / 38.6 E

(SIXTEEN DECIMAL FOUR DEGREES SOUTH AND

THIRTY EIGHT DECIMAL SIX DEGREES EAST)

MOVEMENT: WEST 18 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 992 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: 595 SE: 405 SW: 280 NW: 0

34 KT NE: 0 SE: 295 SW: 130 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1005 HPA / 800 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/01/25 00 UTC: 16.5 S / 36.2 E, VENT MAX= 030 KT, OVERLAND DEPRESSION

28 KT NE: 555 SE: 520 SW: 465 NW: 0

24H: 2022/01/25 12 UTC: 16.4 S / 34.1 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

36H: 2022/01/26 00 UTC: 16.3 S / 31.7 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

48H: 2022/01/26 12 UTC: 16.8 S / 29.0 E, VENT MAX= 020 KT, OVERLAND DEPRESSION

60H: 2022/01/27 00 UTC: 17.1 S / 28.1 E, VENT MAX= 015 KT, OVERLAND DEPRESSION

72H: 2022/01/27 12 UTC: 17.3 S / 27.2 E, VENT MAX= 015 KT, OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK:

96H: 2022/01/28 12 UTC: 17.2 S / 25.3 E, VENT MAX= 015 KT, OVERLAND DEPRESSION

120H: 2022/01/29 12 UTC: 16.7 S / 24.4 E, VENT MAX= 015 KT, OVERLAND DEPRESSION

2.C ADDITIONAL INFORMATION:

THE SYSTEM TOUCHED THE COAST OF MOZAMBIQUE NEAR THE CITY OF ANGOCHE
AROUND 08Z. DESPITE A CONTINUATION OF THE SIGNS OF INTENSIFICATION ON

CLASSICAL SATELLITE IMAGERY JUST AFTER THE LAST ADVISORY, THE 89 GHZ AMSUB IMAGERY OF METOP-B AT 0652Z SHOWS A RATHER ILL-DEFINED CENTRAL CORE ALREADY ENCROACHING ON THE LAND. THE INTENSITY AT THE TIME OF THE LANDFALL REMAINS ESTIMATED AT 45 KT (PMIN 990 HPA).

DURING THE NEXT 48H, THE SYSTEM WILL CONTINUE A FAST MOTION IN GENERAL WESTWARD DIRECTION ON THE NORTH TO NORTHWEST FACADE OF THE LOW TO MID LEVELS HIGH GEOPOTENTIALS. ON THIS TRACK THE SYSTEM WILL CROSS SOUTHERN MALAWI TOMORROW AND THEN REACH NORTHERN ZIMBABWE ON WEDNESDAY.

FROM THURSDAY ONWARDS, WHILE A BAROMETRIC COL SITUATION IS TAKING PLACE IN THE SOUTH, THE RESIDUAL DEPRESSION OF THIS SYSTEM WILL SLOWLY EVOLVE OVER SOUTHERN ZAMBIA UNTIL THE WEEKEND. IT IS POSSIBLE THAT THE CLOCKWISE CIRCULATION OF THE SYSTEM IS STILL DEFINED BY THEN (DIVERGENCE OF APPRECIATION BETWEEN IFS WHICH MAINTAINS IT AND GFS WHICH DISSIPATES IT ALMOST TOTALLY).

EXPECTED CONSEQUENCES ON INHABITED LANDS :

- MOZAMBIQUE (AND NEIGHBORING COUNTRIES INLAND):

WINDS: ABATING NEAR THE CENTER DURING THE NEXT 6-12H. HOWEVER, STRONG WINDS GUSTING TO 80-100 KM/H ARE STILL PRESENT OVER THE COASTAL AREAS AND ARE SPREADING SOUTHWARD TO BEIRA. THEY WILL DIMINISH TOMORROW.

RAINS: FREQUENT ACCUMULATIONS OF 100/150 MM IN 24H ARE EXPECTED ALONG THE TRACK DURING THE NEXT 24-30H WITH LOCALLY 200 MM POSSIBLE ON MOUNTAINOUS AREAS. CUMULATIVE RAINFALL OF 50 TO 100 MM FOR THE NEXT 24 HOURS IN THE AREA BETWEEN QUELIMANE AND BEIRA. THESE HEAVY RAINS ARE ALSO AFFECTING A LARGE PART OF SOUTHERN MALAWI. OVER THE NEXT FEW DAYS, THEY WILL REACH NORTHERN ZIMBABWE (WEDNESDAY) THEN SOUTHERN ZAMBIA FROM THURSDAY. LOCALLY HEAVY RAINFALL WILL BE POSSIBLE DUE TO THE SLOW MOVEMENT OF THE RESIDUAL LOW.

SEA: A SURGE OF A FEW TENS OF CENTIMETERS IS POSSIBLE NEXT NIGHT WELL SOUTH OF THE IMPACT AREA TOWARDS QUELIMANE AND BEIRA WITH A STRONG AND PERSISTENT INFLOW WIND DURING THE NEXT 12 HOURS.