



SADC-CLIMATE SERVICES CENTRE TROPICAL STORM ADVISORY

ISSUE NUMBER: 01

RELEASE DATE: 12/01/2024

RAINFALL SEASON: 2023/24

Headline: Tropical depression 02 has developed in the South-West Indian Ocean and is projected to impact Mauritius and parts of Madagascar over the next 3 to 4 days.

Analysis of model outputs from the following sources: European Centre for Medium Range Weather Forecasting (ECMWF), Joint Typhoon Warning Centre (JTWC), Regional Specialized Meteorological Centre (RSMC) La Reunion, Zoom-Earth (ICON & GFS) and the SADC Climate Services Centre WRF-GFS, show that a tropical depression named **02 has developed over the South West Indian Ocean and has recorded winds speeds of 65 km/h gusting to 80 km/h**. At 1200 Greenwich Meridian Time (GMT), it was located at 13.3 degrees South and 56.6 degrees East while moving south-westward at a speed of 15 km/h.

WARNING ZONE

The forecast track shows that the tropical cyclone will most likely make landfall over Mauritius between 15th and 16th January 2024 and thereafter veer off south-eastward into the extra-tropical waters of the Indian Ocean.

Other parts of the region likely to experience extreme precipitation during the same period include, southern Malawi, northern Namibia, southern United Republic of Tanzania, southern Zambia, southeastern Angola, east coastal South Africa, northern Mozambique and north-western Madagascar as shown in Figure 1 below.

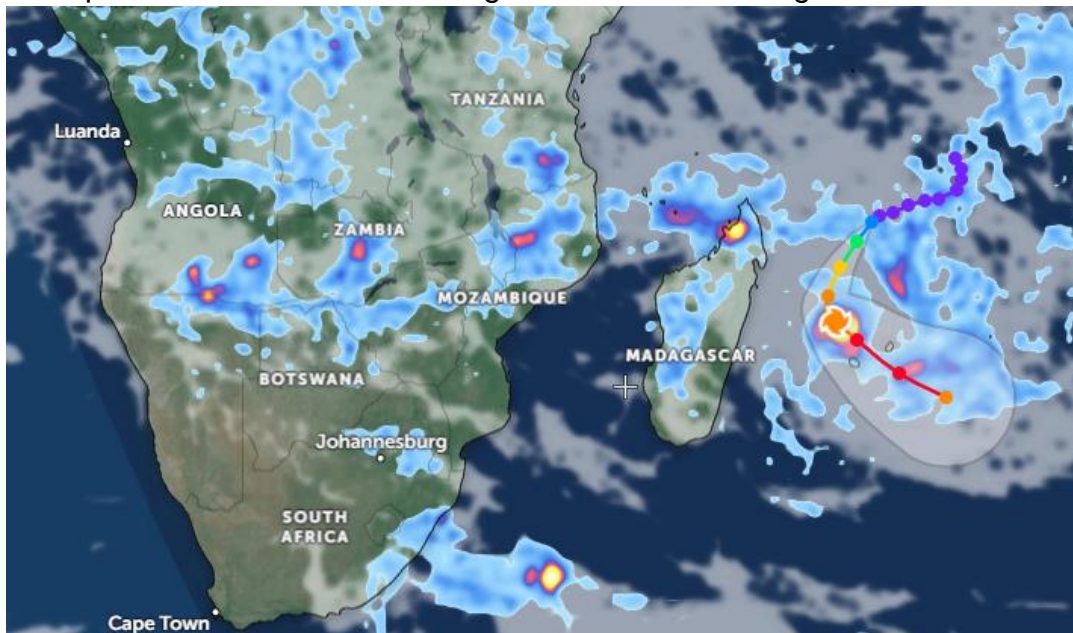


Figure 1: Heavy rainfall expected over the SADC region due to tropical disturbance 02 and other weather systems during the period of 12-15 January 2024 (Source: Zoom-Earth and JTWC (tracks))

RECOMMENDED ACTION

National Meteorological and Hydrological Services are requested to closely monitor these events and update relevant institutions such as Disaster Risk Management Agencies at Member States level to support anticipatory preparedness and response measures to protect lives and property.

Users are encouraged to consult National Meteorological and Hydrological Services in Member States for interpretation of this advisory.

NEXT ADVICE

The next advisory will be issued as and when there is a need to update information on the current evolving tropical system over the Indian Ocean, that is likely to have a direct impact on the SADC Region.

For more information contact:

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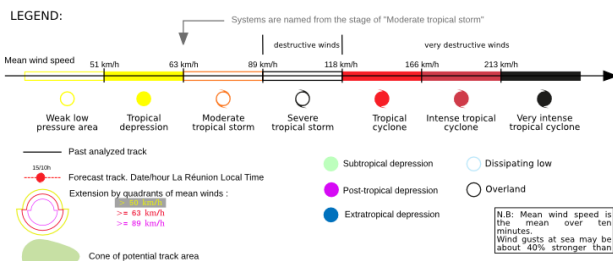
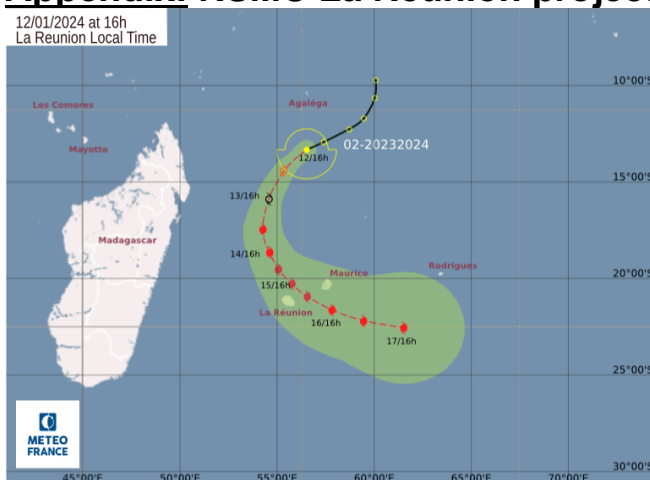
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Appendix: RSMC La Reunion projected tropical cyclone track

12/01/2024 at 16h
La Reunion Local Time



WARNING:

The potential track area depicts the track forecast uncertainty for days 1-5 of the forecast. It indicates that the entire 5-days path of the center of the tropical system for which the track forecast has been made will remain within the cone about 75% of the time.

Hence being situated outside of the uncertainty cone does not mean that there is no risk of being affected by the system, especially so since the uncertainty cone is for the storm's center and does not consider the more or less large extension of potential damaging winds or rain surrounding this center.

<https://meteofrance.re/fr/cyclone>

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