



SADC-CLIMATE SERVICES CENTRE TROPICAL CYCLONE ADVISORY

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RAINFALL SEASON: 2023/24

Headline: Tropical Storm 09-20232024 (GAMANE) is projected to make landfall over parts of Madagascar and Mauritius as it moves southwards and later becoming an extra-tropical cyclone.

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 Storm 09-20232024 (GAMANE)** has developed over the **Southwestern Indian Ocean basin** and has recorded winds speeds of **55 km/h gusting to 70 km/h**. The tropical system is currently expected to affect **Madagascar and Mauritius** and indirectly affect **Mozambique**.

WARNING ZONE

The tropical cyclone forecast track shows that **GAMANE** (Figure 1) will make direct impact over **Madagascar and Mauritius** and indirectly affect **Mozambique** between 25 and 31 March 2024 (according to RSMC La Reunion) and thereafter move southward towards the extra tropics.

Other parts of the region likely to experience extreme precipitation during the same period include, parts of **Angola, DRC, Lesotho, Mozambique, Tanzania, and South Africa** as shown in Figure 1 below.

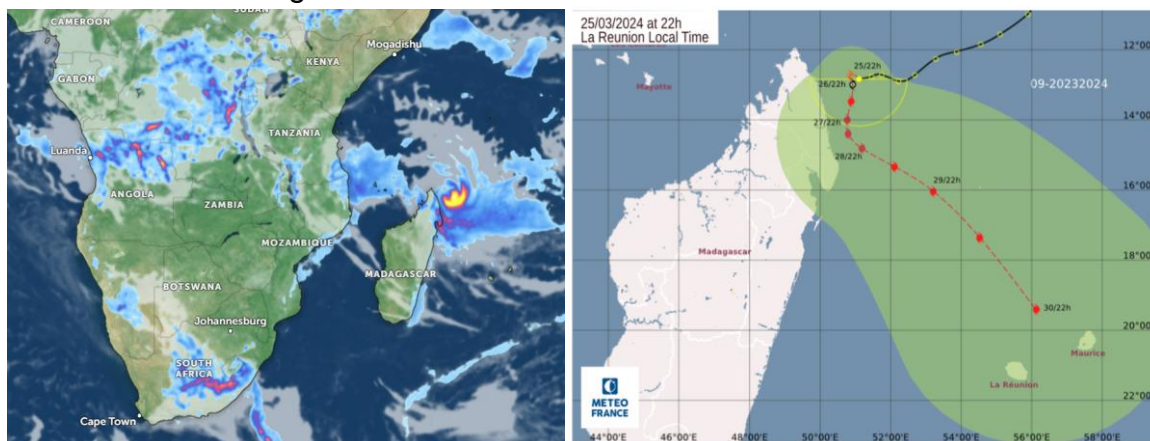


Figure 1: Heavy rainfall expected over the SADC region due to Tropical Storm (GAMANE) and other weather systems during the period of 25 – 31 March 2024 (Source: Zoom-Earth and JTWC (tracks)) and RSMC-La Reunion projected track (right)

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 action, preparedness and response measures to protect lives and property.

Users are strongly encouraged to consult the National Meteorological and Hydrological Services (NMHSs) in Member States for interpretation of this advisory and local warnings and alerts.

NEXT ADVICE

The next advisory will be issued as and when there is an evolution of tropical systems over the **Southwestern Indian Ocean basin** (*which extends from the equator to 40S and from the African coastlines to 90E*), that are likely to have a direct impact on SADC Member States.

For more information contact:

SADC Climate Services Centre (SADC-CSC)

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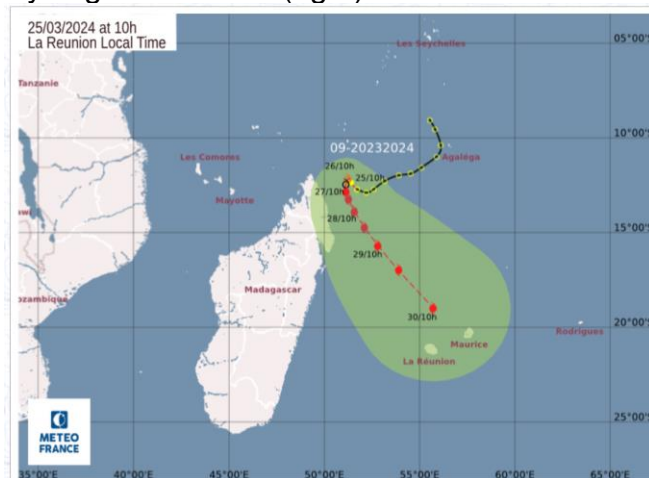
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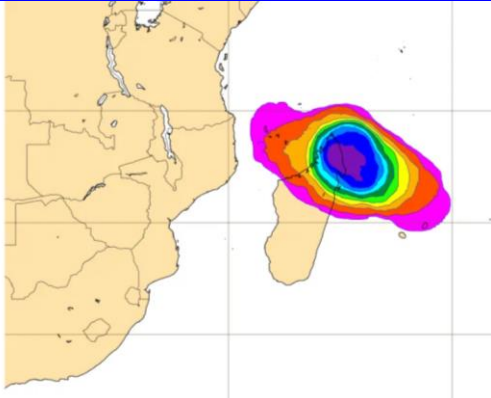
Website: csc.sadc.int

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Appendix: RSMC La Reunion projected tropical cyclone track (left) and Cyclogenesis zone (right)



http://www.meteo.fr/temps/dontom/La_Reunion/webcmrs9.0/anglais/index.html



https://charts.ecmwf.int/products/medium-tc-genesis?base_time=202403251200&layer_name=genesis_td&projection=opencharts_sin&valid_time=202403291200

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