



SADC-CLIMATE SERVICES CENTRE

TROPICAL CYCLONE ADVISORY

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RAINFALL SEASON: 2023/24

Headline: Tropical depression 08 (FILIPO) formed on 02 March 2024 and moved westwards towards the northern tip of Madagascar where it resulted in heavy downpours but didn't result in any reported destruction of property and no loss of life. Tropical depression 08 is projected to become a tropical cyclone over the next 7 days and will most likely make landfall over central Mozambique, affecting parts of eastern Zimbabwe, northeastern South Africa and Eswatini.

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 8 (FILIPO)** has developed over the **Southwestern Indian Ocean basin** and has recorded winds speeds of **45 km/h gusting to 50 km/h**. The tropical system is currently expected to affect **Mozambique** and indirectly impact **Eswatini and South Africa**.

WARNING ZONE

The tropical cyclone forecast track shows that FILIPO (Figure 1) will make direct impact over **Mozambique**, and indirectly affect **Eswatini and South Africa** from 10 to 13 March 2024 (according to ECMWF (figure 1 right)) 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, Zambia, Malawi, Tanzania, Mozambique, South Africa, and Eswatini** as shown in Figure 1 below.

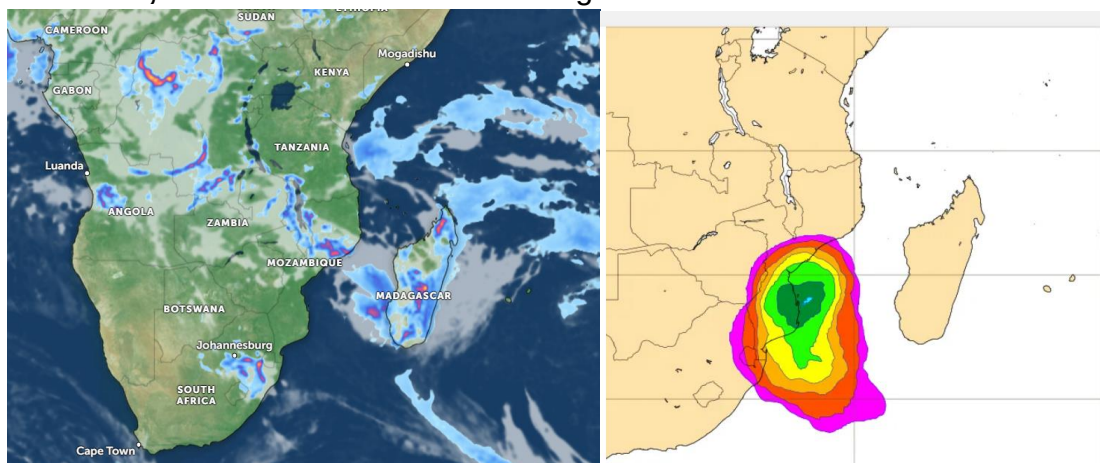


Figure 1: Heavy rainfall expected over the SADC region due to Tropical Depression (FILIPO) and other weather systems during the period of 09-13 March 2024 (Source: Zoom-Earth and JTWC (tracks)) and ECMWF tropical cyclone activity plot

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)

SADC Secretariat

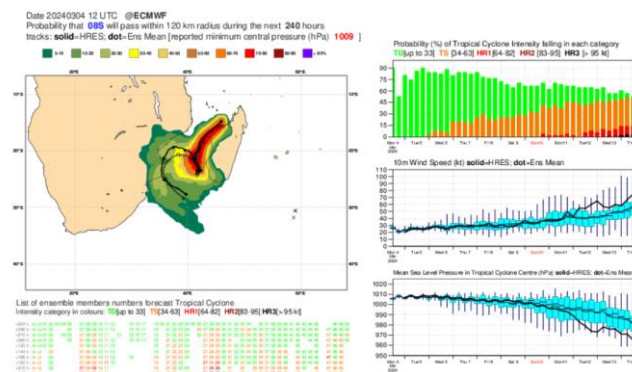
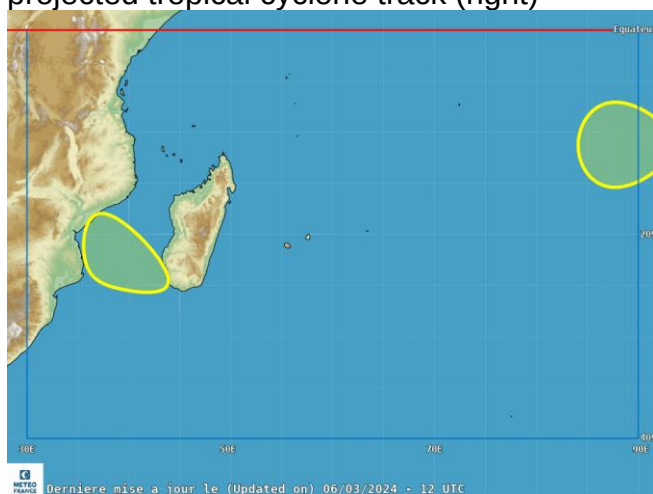
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Appendix: RSMC La Reunion projected Cyclogenesis zone (left) and ECMWF projected tropical cyclone track (right)



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

https://charts.ecmwf.int/products/cyclone?base_time=202403041200&product=tc_strike_probability&unique_id=08S_08S_2024