SADC-CLIMATE SERVICES CENTRE

TROPICAL CYCLONE ADVISORY

ISSUE NUMBER: 09 **RELEASE DATE: 29/04/2024** **VALIDITY: 04/05/2024**

RAINFALL SEASON: 2023/24

Headline: **Tropical Storm 10-20232024 is projected to make landfall over northern parts of Madagascar as it moves southwards.**

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 10-20232024 is developing over the Southwestern Indian Ocean basin and has recorded maximum sustained surface winds around 30 km/h (15 knots) and minimum sea-level pressure is estimated to be near 1006 hPa**. The tropical system is currently expected to affect **Comoros and Madagascar** and indirectly affect **Mozambique, Seychelles and Tanzania.**

WARNING ZONE

The tropical cyclone forecast shows that **Tropical Storm 10-20232024** (Figure 1) will make direct impact over parts of **Comoros and Madagascar** and indirectly affect **Mozambique, Seychelles and Tanzania** between 29 April and 05 May 2024 (according to ECMWF). **Northern Madagascar, Comoros, and northern Mozambique** are likely to receive extreme rainfall associated with this storm.

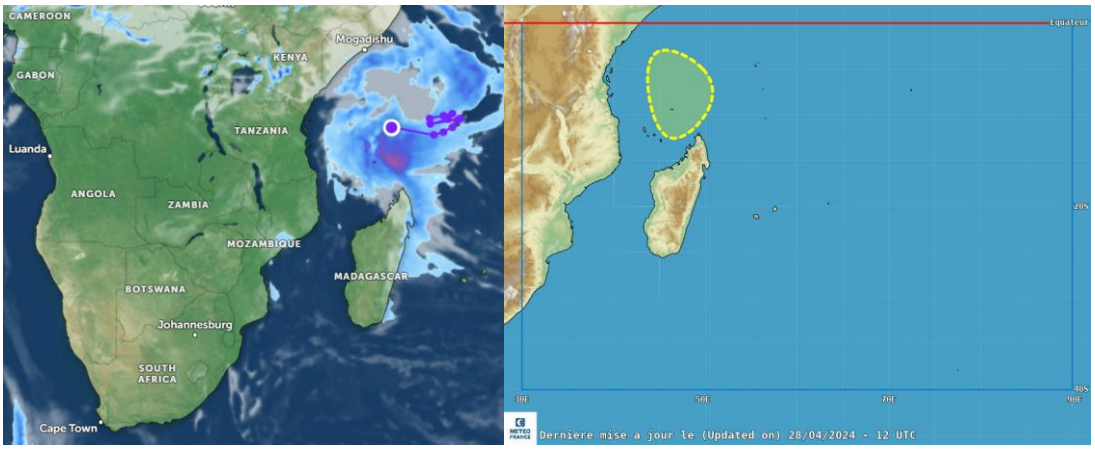

Figure 1: Heavy rainfall expected over the SADC region due to Tropical Storm (HIDAYA) and other weather systems during the period of 29 April – 05 May 2024 **(***Source: Zoom-Earth and JTWC (tracks)***) and RSMC-La Reunion projected cyclogenesis (right)**

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.

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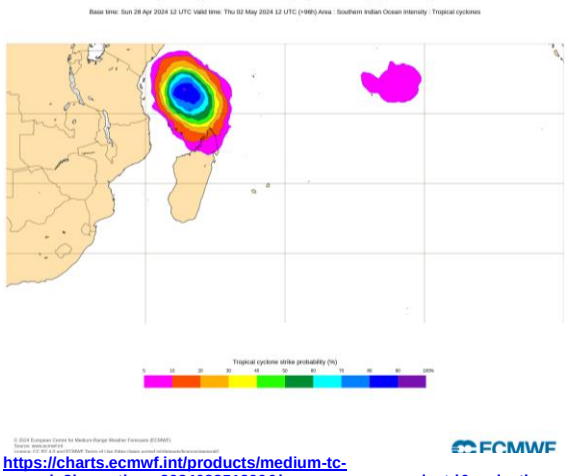
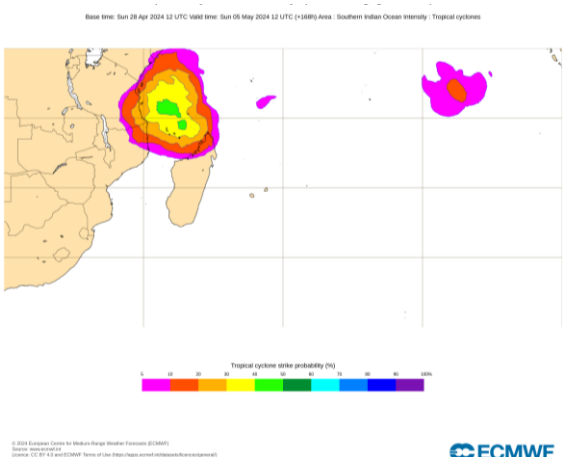
Appendix: ECMWF projected tropical cyclone cyclogenesis

29 April to 02 May 2024



29 April to 05 May 2024



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