

WEATHER SUMMARY FOR MARCH, 2023 AND WEATHER OUTLOOK FOR APRIL, 2023

Highlights of weather summary for March, 2023 and outlook for April, 2023:

This statement summarizes the current state of climate systems and associated weather observed during the month of March, 2023 and subsequently the outlook for the climate system and rainfall distribution for the month of April, 2023 over the country.

- During the first and second week of March 2023, suppression of rainfall activities was experienced over most areas of the country due to the occurrence of tropical cyclone *Freddy* followed by enhanced rains during the third and fourth week.
- For the month of April, 2023 rainfall activities are likely to continue over most areas of the country with enhanced rains over some areas.
- Near normal temperatures are likely over most areas of the country during the month of April, 2023.

1.0 WEATHER REVIEW FOR MARCH, 2023.

During the month of March 2023, most areas of the country experienced dry conditions especially during the first and second week of the month due to the occurrence of tropical cyclone *Freddy*. However, wetter conditions were observed over most areas during the third and fourth week marked the onset of *Masika* rains over most of bimodal areas. Furthermore, the presence of Intertropical Convergence Zone (ITCZ) and active phase of Madden-Julian Oscillation (MJO) over the country caused periods of heavy rains resulted into flood in some areas. The highest amount of daily rainfall during the month was recorded at Dar Port station (in Dar es Salaam region) which was 117.8 mm on the 19th March, 2023 followed by 106.7 mm and 90.2 mm which were

recorded over Arusha and Ilonga (Morogoro) on 22nd and 28th March, 2023 respectively. The stations which recorded daily rainfall of 50 mm or more are indicated in Figure 1 below;

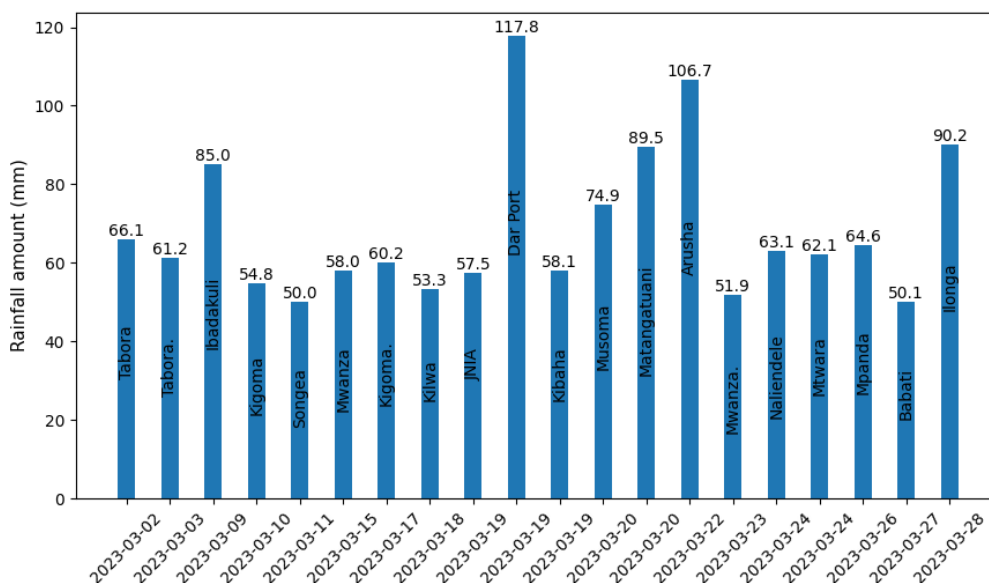


Figure 1: Rainfall amounts reaching or exceeding 50 mm reported in March, 2023

2.0 OUTLOOK FOR APRIL, 2023

2.1 WEATHER AND CLIMATE SYSTEMS

Neutral to slight warmer than normal sea surface temperature (SST) over the Central Equatorial Pacific Ocean (CEPO) is expected during April, 2023. Normal SSTs are expected over most parts of Indian Ocean likely to influence the advection of moisture influx towards the coastal areas. However, normal to slight cooler SSTs are expected off Angola coast, this condition is expected to trigger the flow of moisture rich westerly winds towards the Lake Victoria basin and western part of the country. The southern

high-pressure systems are anticipated to intensify slightly during the month allowing rainfall making mechanism (ITCZ) to continue moving gradually northwards.

2.2 WEATHER OUTLOOK FOR APRIL, 2023

Generally, periods of rains are expected over most areas of the country with slight enhancement of rainfall activities over some areas. Furthermore, cessation of *Msimu* rains is expected in some of unimodal areas towards the end of the month. On the other hand, near normal temperatures are likely over most areas of the country during the month of April, 2023. Details of the weather outlook are as follows;

Northern Coast (Tanga, Pwani, Dar es Salaam regions, northern sector of Morogoro region, Mafia, Unguja and Pemba Islands):

Rainfall activities are likely over some areas with suppressed rains anticipated over few areas between the first and second week of the month.

North Eastern Highlands (Kilimanjaro, Arusha and Manyara regions):

Rainfall activities are likely to continue over some areas with reduction of activities between the first and second weeks of the month.

Lake Victoria basin (Kagera, Geita, Shinyanga, Mwanza, Mara and Simiyu regions):

Rainfall with thunderstorm activities is likely to persist over some areas during the month of April, 2023. Slight reduction of rains is expected during the third week of the month.

Western regions (Kigoma, Katavi and Tabora regions):

Rainfall with thunderstorm activities is likely to continue over some areas during the month. However, suppressed rains are anticipated in the third week of April, 2023.

Central areas (Dodoma and Singida regions):

Light to moderate rainfall activities are expected to continue over some areas during April, 2023. Slight reduction of rains is expected during the third week of the month.

Southwestern Highlands (Rukwa, Songwe, Mbeya, Njombe, Iringa regions and Southern sector of Morogoro region):

Light to moderate rains with thunderstorm are likely over some areas during April, 2023. However, slight reduction of rainfall activities is anticipated during the second and third weeks of the month.

Southern Coast (Mtwara and Lindi regions):

Light to moderate rains are likely over some areas during the month of April, 2023 with reduction towards the end of the month.

Southern Region (Ruvuma region):

Light to moderate rains are likely over some areas during the month. Reduction of rains is expected towards the end of the month.

2.3 FURTHER OUTLOOK FOR THE MONTH OF MAY, 2023.

During the month of May, 2023 rainfall activities are expected to continue over some areas especially bimodal. On the other hand, temperatures are expected to increase mainly over areas which are likely to experience suppressed rains.

2.4 ADVISORY

Rainfall season is progressing over some areas of the country. Moreover, periods of heavy rains are anticipated. Therefore, communities living on flood prone areas or in their proximity, should continue to take appropriate measures to reduce the associated impact of expected heavy rains including floods.

Tanzania Meteorological Authority (TMA) advises all users of weather information including farmers, livestock keepers, wildlife conservation authorities, hydrological and health sectors to continue seeking and utilizing experts' advice on their relevant sectors.

Issued on 01st April, 2023 by:

TANZANIA METEOROLOGICAL AUTHORITY