

WEATHER SUMMARY FOR OCTOBER, 2022 AND WEATHER OUTLOOK FOR NOVEMBER, 2022

Highlights of weather summary for October and outlook for November, 2022:

This statement summarizes the current state of climate systems and associated weather observed during the month of October, 2022 and subsequently outlook of climate systems especially rainfall distribution and temperature for the month of November, 2022 over the country.

- a) During the month of October 2022, mainly dry conditions was observed over most areas within the country. However, occasional periods of light to moderate rains have been observed over few areas of Lake Victoria Basin and coastal belt.
- b) The month of November, 2022 is expected to mark the onset of 'Msimu' rains in unimodal areas particularly over western parts of the country. Furthermore, rains are expected to continue in bimodal areas (Northern Coast, Lake Victoria basin and North Eastern Highlands).
- c) On the other hand, below than long term average rainfall is expected over most areas with warm to hot temperatures expected to persist over some areas.

1.0 REVIEW OF OCTOBER, 2022 WEATHER.

During the month of October, 2022 warmer conditions were experienced over some areas of the country whereby the highest maximum temperature of 36.9°C was observed over Mpanda station located in Katavi region on 26th October, 2022. Similarly, other stations which reported more than 35°C includes Ibadakuli 36.5°C on 26th

October, 2022 and Tabora 35.7°C on 24th October, 2022. Generally, most parts of the country experienced dry conditions except few areas over the coastal strip and Lake Victoria Basin which received light to moderate rainfall activities. Bukoba station received 32.2 and 46.8 millimeter of rainfall on 2nd and 29th October, 2022 respectively while Kigoma reported 44.9 mm on 17th October, 2022. Similarly, other stations which reported more than 10 mm were Tanga (17.1 mm) and Pemba stations (14.1 mm) both reported on 22nd October, 2022. On the other hand, few episodes of strong wind reaching 40 km/hr at times have been experienced over few areas along the coastal belts.

2.0 OUTLOOK FOR NOVEMBER, 2022

2.1 WEATHER AND CLIMATE SYSTEMS

During the month of November, 2022 cooler than normal sea surface temperatures (SSTs) over the Central Equatorial Pacific Ocean (CEPO) are expected to persist which indicating La Niña condition throughout the month. On the other hand, cooler than normal SSTs over the western Indian Ocean and warmer than normal SSTs over the Eastern Indian Ocean is anticipated. This scenario is likely to suppress moisture advection towards the coastal areas.

Meanwhile, slight cooler than normal SSTs expected along the eastern Atlantic Ocean (off-Angola coast) coupled with cooler than average SSTs over the West Indian Ocean (east African Coast) is likely to lessen the flow of moist westerly winds from the Congo Basin towards the western areas including the south-western highlands.

2.2 WEATHER OUTLOOK FOR NOVEMBER, 2022

Generally, the month of November, 2022 marks the onset of *Msimu* rains over western part of the country. However, periods of light to moderate rains are expected in some areas of bimodal with slight enhancement during the third week of November, 2022. On the other hand, warm to hot temperatures are expected to persist over some areas of the country due to insufficient rainfall activities anticipated. 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):

Few episodes of rainfall activities are expected in few areas during November, 2022. Slightly enhancement of rainfall activities is expected during the third and fourth weeks of the month.

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

Light to moderate rains are expected in few areas during the month especially over the highgrounds. Slight enhancement of rains is expected during the third week of the month.

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

Rains are expected to continue in some areas during the month. Slight enhancement of rains is expected during the second and fourth week of November, 2022.

Western regions (Kigoma, Katavi and Tabora regions):

Rainfall activities are expected in some areas during the month. However, *Msimu* rains are expected to commence during the third and fourth week of November, 2022.

Central areas (Dodoma and Singida regions):

Mainly dry condition is expected with few episodes of light to moderate rains in few areas.

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

Slight to moderate rainfall activities are expected in some areas. However, Cool condition is expected over the high ground areas.

Southern Coast (Mtwara and Lindi regions):

Mainly dry condition is expected with few episodes of light to moderate rains in few areas.

Southern Region (Ruvuma region):

Mainly dry condition is expected with few episodes of light to moderate rains in few areas.

2.3 FURTHER OUTLOOK FOR THE MONTH OF DECEMBER, 2022.

During the month of December, 2022 *Msimu* rains are expected to commence over southern sector of the country. However, enhanced rainfall activities are expected over some areas of the country.

2.4 ADVISORY

Suppressed rainfall activities over most areas may continue to cause deficit of soil moisture. Therefore, the farmers and communities at large are advised to get and follow the advice from the extension officers on the proper use of the rains.

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.

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TANZANIA METEOROLOGICAL AUTHORITY