DEKADAL Weather Review and Outlook

1.0 WEATHER REVIEW FOR DEKAD No. 39 (21st – 31st JANUARY, 2023) AND OUTLOOK FOR DEKAD No. 40 (01st – 10th February, 2023).

1.1 WEATHER REVIEW FOR DEKAD No. 39 (21st – 31st JANUARY, 2023).

During this dekad, the northern hemisphere high-pressure systems (Azores and Siberian) maintained its strength while their counter parts the southern hemisphere high-pressure systems (St. Helena and Mascarine) slightly intensified. This condition continued to squeeze the Inter Tropical Convergence Zone (ITCZ) slightly northwards to some areas along the southern sector and western parts of the country. Sea Surface Temperatures (SSTs) over the western Indian Ocean were observed to be slightly warmer than normal and triggered the formation of tropical disturbances over the area. Low level westerly winds anomaly was observed during the first half of the dekad with much contribution in the advection of moist wind from Congo basin towards the western sector of the country. This condition had an influence on the contribution on rainfall activities over some areas of the western sector of the country, south western highland, coastal areas, southern region, central and Lake Victoria basin. Additionally, the active phase of the Madden Julian Oscillation (MJO) during this dekad had an influence on the isolated thundery activities over some areas of the country.

1.2 WEATHER SUMMARY FOR DEKAD No. 39 (21st – 31st JANUARY, 2023)

Generally, during the first half of this dekad the majority of the areas within the country experienced rain showers accompanied with isolated thunderstorms following the presence of depressions over the South West Indian Ocean. Otherwise, the remaining areas received light rain during this dekad.

2.0 WEATHER OUTLOOK FOR DEKAD No. 40 (01st – 10th February, 2023).

2.1 EXPECTED SYNOPTIC SITUATION

During this dekad, the northern hemisphere high-pressure systems (Azores and Siberian) are expected to maintain its strength while the southern hemisphere high-pressure systems (St. Helena and Mascarine) are expected to slightly intensify. This condition is expected to squeeze the ITCZ slightly northwards to some areas over the country. The SSTs over the eastern Indian Ocean is expected to be neutral condition while over the south-west Indian Ocean are expected to be neutral to slightly cooler. Low level westerly wind anomaly is expected mainly during the first half of the dekad and likely to favor moisture influx from Congo basin towards the western sector of the country. This condition will have much significant contribution on rainfall activities over some areas of the western sector of the country, south western highland, coastal areas, southern region, central and north eastern highlands during the dekad.

2.2 EXPECTED WEATHER OUTLOOK FOR DEKAD No. 40 (01st – 10th February, 2023).

Lake Victoria Basin (Kagera, Geita, Shinyanga, Mwanza, Simiyu and Mara regions): Thundershowers over few areas are expected.

Northeastern highlands (Arusha, Manyara and Kilimanjaro regions): Rain showers over few areas are expected.

Northern coast (Tanga, Northern part of Morogoro, Pwani and Dar es Salaam regions together with isles of Unguja and Pemba): Rain showers with isolated thunderstorms over few areas are expected.

Western regions (Kigoma, Katavi and Tabora regions): Thundershowers over few areas are expected.

Central areas (Dodoma and Singida regions): Rain showers with isolated cases of thunderstorms over few areas are expected.

Southwestern highlands (Rukwa, Songwe, Mbeya, Njombe and Iringa regions): Thundershowers over some areas are expected.

Southern Coast (Mtwara and Lindi regions): Rain showers with isolated cases of thunderstorms are expected.

Southern region (Ruvuma and Southern part of Morogoro regions): Thundershowers over some areas are expected.

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