



DEKADAL Weather Review and Outlook

1.0 WEATHER REVIEW FOR DEKAD No. 48 (21st – 30th APRIL, 2023) AND OUTLOOK FOR DEKAD No. 49 (01st –10th MAY, 2023)

1.1 WEATHER REVIEW FOR DEKAD No. 48 (21st – 30th APRIL, 2023)

During this dekad, the southern high-pressure systems (St. Helena and Mascarene) revealed insignificant changes while the northern high-pressure systems (Azores and Siberia) relaxed. This scenario confined the intertropical convergence zone (ITCZ) over the northern sector of the country. Sea Surface Temperatures (SSTs) over the south west Indian ocean (SWIO) were slight warmer than normal, with an overall positive impact in advecting moist maritime wind towards the coastal areas. The central equatorial Pacific Ocean (CEPO) observed slight warmer than normal SSTs. This condition strengthened the rainfall making mechanism within the country. On the other hand, SSTs over the eastern Atlantic Ocean (off Angola coast) were warmer than normal with less contribution in the advection of moist westerly wind from Congo basin towards the western sector of the country.

1.2 WEATHER SUMMARY FOR DEKAD No. 48 (21st – 30th APRIL, 2023)

The above weather systems favored thundershowers over the Lake Victoria Basin, west, coastal belt and northeastern highland. Other areas experienced light to moderate rainshowers.

2.0 WEATHER OUTLOOK FOR DEKAD No. 49 (01st – 10th MAY, 2023)

2.1 EXPECTED SYNOPTIC SITUATION

During this period, the southern high-pressure systems (St. Helena and Mascarene) are expected to intensify while the northern high-pressure systems (Azores and Siberia) are expected to relax. This situation is expected to allow the ITCZ to move further north of the country. SSTs over the SWIO are expected to be neutral to slight warmer than normal, this scenario is expected to have

less impact in the advection of moist maritime wind from the ocean towards the coastal areas. Over the central equatorial Pacific Ocean SSTs are expected to be slight warmer. On the other hand, SSTs over the eastern Atlantic Ocean (off Angola coast) are expected to be warmer than normal, the scenario which will have minimal contribution in transferring moist westerly wind from Congo basin towards the western sector of the country.

2.2 EXPECTED WEATHER OUTLOOK FOR DEKAD No. 49 (01st – 10th MAY, 2023)

Lake Victoria Basin (Kagera, Geita, Shinyanga, Mwanza, Simiyu and Mara regions): Rains with isolated thunderstorms are expected.

Northeastern highlands (Arusha, Manyara and Kilimanjaro regions): Mainly dry condition is expected.

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

Western regions (Kigoma, Katavi and Tabora regions): Rains with isolated thunderstorms are expected.

Central areas (Dodoma and Singida regions): Dry condition is expected.

Southwestern highlands (Rukwa, Songwe, Mbeya, Njombe and Iringa regions): Dry condition is expected.

Southern Coast (Mtwara and Lindi regions): Mainly dry condition is expected.

Southern region (Ruvuma and Southern part of Morogoro regions): Dry condition is expected.

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