

## DEKADAL WEATHER REVIEW

No: 3: 2018/19 cropping season

Review for October 21 - 31 and Outlook for November 1-10, 2018

### HIGHLIGHTS

- *Msimu* rainy season is expected to start between November and December, 2018 in Unimodal rainfall regime.
- Farmers are advised to make use of the expected *Msimu* rains for planting when there is enough soil moisture.
- Livestock keepers are advised to make good use of available water and pasture.

### SYNOPTIC SUMMARY DURING NOVEMBER 21-31, 2018

The northern high pressure systems (Azores and Siberian) were intensifying while the southern high pressure systems (St. Helena and Mascarene) were relaxing. There was tight gradient caused by intensification of Mascarene and subtropical low resulted into very strong winds over the entire country and precipitation of the northern coast towards northeastern highland during the first five days. Also there was meridional arm passing over the lake Victoria basin towards western part resulted into enhancement of precipitation during the second five days. Over the southwest Indian Ocean, sea surface temperatures (SSTs) were neutral to slight warm that resulted into moist southeasterly with no cyclonic activities. The southeast Atlantic Ocean (near Angola coast) SSTs were neutral which contributed the suppression of precipitation making mechanisms over the Lake Victoria basin and western sector of the country during the previous first five days.

### RAINFALL PERFORMANCE DURING OCTOBER 21-31, 2018

During the ten day (dekad) period, In bimodal areas the Vuli seasonal rainfall has continued and large areas of Pemba and Unguja isles and small area of Arusha region has received more than 50 mm of rainfall. However, in the unimodal rainfall regime few parts of Kigoma, Iringa, Rukwa, Katavi and Tabora regions have received less than 50mm of rainfall as seen in Figure 1.

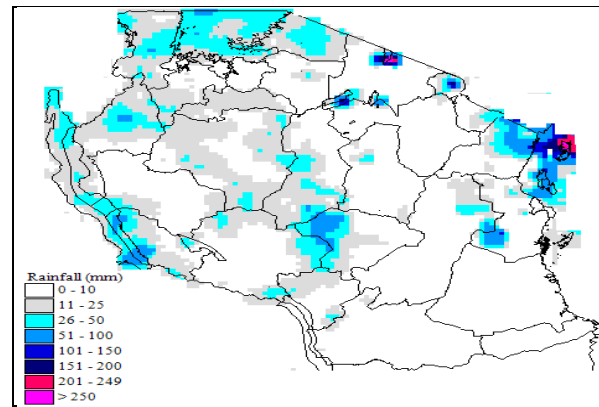


Figure 1: Total rainfall for the period of October 21 - 31, 2018.

### AGROMETEOROLOGICAL SUMMARY DURING OCTOBER 21-31, 2018

Farmers in bimodal areas continued with land preparation and planting, except in Kagera region where weeding activities on maize and beans crops were continued. Over the unimodal areas, farmers have started land preparations for the coming *msimu* rainy season which is expected to start between November and December. Water and pasture availability for livestock has improved in some part of the bimodal areas especially in Lake Zone areas as a result of ongoing Vuli season rainfall.

### HYDROLOGICAL CONDITIONS DURING OCTOBER 21 - 31, 2018

Water levels in dams and river flow discharges have silently improved across the bimodal rainfall regime as a result of ongoing Vuli season rainfall.

### EXPECTED SYNOPTIC CONDITIONS DURING NOVEMBER 1-10, 2018.

The Azores and Siberian highs are expected to intensify while the St. Helena and Mascarene highs are expected to relax and allow ITCZ to reach in our country especially over the Lake Victoria and western part of the country. Also the onshore easterly to northeasterly flow is expected over the coastal areas. SSTs are expected to be neutral to slight warm over the southwest Indian Ocean that will result into moist air and the likelihood of occurrence of cyclonic activities over the southeast of Madagascar. The southeast Atlantic Ocean (near Angola coast) SSTs is expected to be neutral to slight cold. This situation will increase westerly flow which is expected to enhance rainfall activities over the western sector of the country.

### EXPECTED WEATHER CONDITIONS DURING NOVEMBER 1-10, 2018

In view of the expected synoptic conditions, Lake Victoria Basin (Kagera, Geita, Shinyanga, Mwanza, Simiyu and Mara regions) and western regions (Kigoma, Katavi and Tabora regions) are expected to feature thundershowers over few areas.

Northern coast (Tanga, northern part of Morogoro, Pwani and Dar es Salaam regions together with isles of Unguja and Pemba), northeastern highlands (Arusha, Manyara and Kilimanjaro regions) and southwestern highlands (Rukwa, Songwe, Mbeya, Njombe and Iringa regions) are expected to feature light rain over few areas.

Central areas (Dodoma and Singida regions) are expected to feature rain showers over few areas.

Southern Coast (Mtwara and Lindi regions) and southern region (Ruvuma and Southern part of Morogoro regions) are expected to feature mainly partly cloudy conditions.

### AGROMETEOROLOGICAL OUTLOOK AND ADVISORY DURING NOVEMBER 1-10, 2018.

Over the bimodal areas generally Lake Victoria basin, northeastern highlands and northern coast, rains are expected to improve during the dekad. In unimodal areas farmers are advised to make use of the expected Msimu rains for planting when there is enough soil moisture. Livestock keepers are advised to make use of the available water and pasture sparingly. Farmers, fishers and livestock keepers are advised to consult extension officers for optimal use of this forecast and advisory.

### HYDROLOGICAL OUTLOOK AND ADVISORY DURING NOVEMBER 1-10, 2018.

Water levels in dams and river flow discharges are expected to improve mostly in bimodal areas due to ongoing Vuli rainfall season and improve silently in unimodal areas due to expected Msimu rainfall season. Water users are advised to use available water carefully.

Prepared by

**TANZANIA METEOROLOGICAL AGENCY**  
3<sup>rd</sup> Floor - Ubungo Plaza - Morogoro Road.

P.O. Box 3056 Tel. 255 - (0) 22 - 2460706-8; Fax: 255 - (0) 22 - 2460718 E-mail: (1) met@meteo.go.tz (2) agromet@meteo.go.tz; website: www.met@meteo.go.tz

Dar es Salaam UNITED REPUBLIC OF TANZANIA