



# TANZANIA METEOROLOGICAL AGENCY



## DEKADAL WEATHER REVIEW

No. 3 2007/08 Cropping Season

September 21-30, 2007

### SYNOPTIC SITUATION

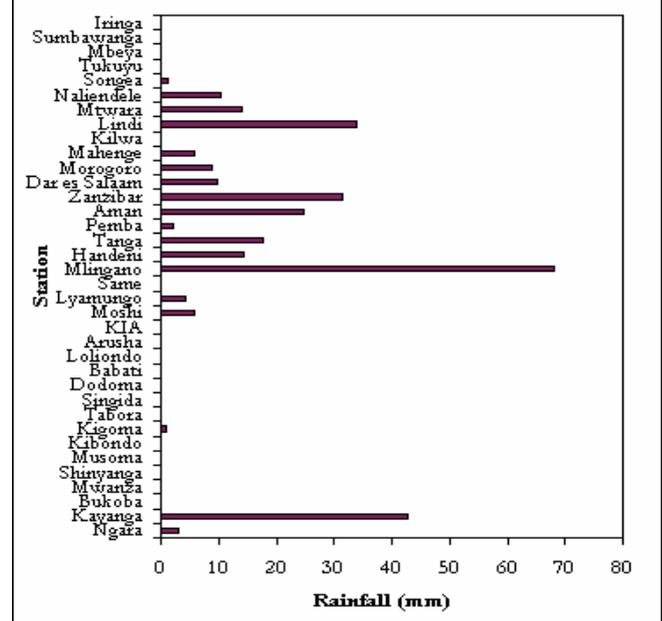
During the dekad, Southern Hemisphere systems (the St. Helena, the Mascarene anticyclones, and the East African ridge) continued to relax, hence influencing a southeasterly to easterly flow to the country at low levels. At times a northeasterly flow dominated the medium levels, mainly over northern parts of our country. The Near Equatorial Trough (NET) persisted over Northwest Indian Ocean together with warm SSTs which contributed to rain showers over the northern coast. A weak trough observed over Lake Victoria basin was dominant but due to unavailability of enough moisture, there were no activities over the area. The Azores and Siberian anticyclones were slightly strong, but more intensification was observed at Siberian anticyclone, although the Inter Tropical Convergence Zone (ITCZ) continued to be located over the northern hemisphere.

### RAINFALL SUMMARY

Dry conditions continued over much of the country except over some places of the coastal belt and Islands of Zanzibar and Pemba, and Kagera region (Karagwe district) where occasional light rains were reported as indicated in the figure below. The highest amount of rainfall during the 10-day period was 68.1 mm measured at Mlingano station followed by Kayanga in Karagwe district 42.8 mm, and Lindi 33.9 mm. Most of the stations reported rainfall amounts not exceeding 10 mm.

Rainfall activities were mainly over bimodal rainfall areas while the unimodal sector was generally dry.

September 21-30, 2007 Rainfall Amounts



### IMPACT ASSESSMENT

#### Agrometeorological and Crop Summary

A few areas experienced increased supply of soil moisture during the dekad. Most farmers were engaged in seasonal farming preparations including the collection of farming gear as well as planting activities that were carried out in parts of Kagera and Mara regions.

The slightly replenished soil moisture over these areas has enhanced regeneration of pastures as well as setting good conditions for land preparations for the next *vuli* season.

Root crops (cassava and sweet potatoes) at various growth stages were generally progressing well over most parts of the country, while market supply for both crops was good.

Pasture conditions and water availability for livestock and wildlife were decreasing in supply over the northern, northeastern highlands, western, southern and central areas as the dry season continued.

**Hydrometeorological Summary**

Water levels in rivers, lakes and dams in the bimodal rainfall areas are expected to benefit from the onset of the *vuli* rains. Water for domestic and industrial purposes should be used sparingly.

**Environmental Summary**

Temperatures are increasing while windy conditions are declining. Fire hazards (bush and wildfires in particular) are still rampant in the dry areas of the country.

A southeasterly flow is expected to be a dominant flow over the entire country, mainly over low levels, with a slight diffluent pattern over southern areas, which is expected to be more pronounced at the beginning of dekad. The NET will remain dominant feature over the northwest Indian Ocean, pointing towards extreme northern coast. The Azores and Siberian anticyclones in the Northern Hemisphere are expected to continue intensifying, hence pushing the ITCZ southwards.

**EXPECTED WEATHER DURING OCTOBER 1 – 10, 2007**

**EXPECTED SYNOPTIC SYSTEMS DURING OCTOBER 1 – 10, 2007**

During this dekad, the Southern Hemisphere Systems (the St. Helena, the Mascarene anticyclones, and the East African ridge) are expected to continue relaxing.

Lake Victoria Basin and Western areas (Kigoma) are expected to receive showers and thunderstorms over few areas. Northern coast and Northeastern highlands are expected to feature rain showers over few areas, where southern coast is expected to be mainly dry. Central, Southwestern highlands, Southern region and Western (Tabora) areas are expected to feature partly cloudy conditions with sunny periods

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