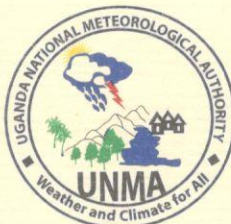


Head Office:  
Plot 21/28,  
Port Bell Road - Luzira.  
Email: [Info@unma.go.ug](mailto:Info@unma.go.ug)  
Email: [exdir@unma.go.ug](mailto:exdir@unma.go.ug)



Tel: +256 414 251 798  
Fax: +256 414 251 797  
P.O Box 7025,  
Kampala - Uganda.  
Website: [www.unma.go.ug](http://www.unma.go.ug)

## UGANDA NATIONAL METEOROLOGICAL AUTHORITY

---

Ref: FCF/102/02

5<sup>th</sup> August, 2021

### WEATHER OUTLOOK FOR AUGUST, 2021 AND REVIEW OF RAINFALL PERFORMANCE FOR JULY, 2021 OVER UGANDA

---

#### 1.0 Summary

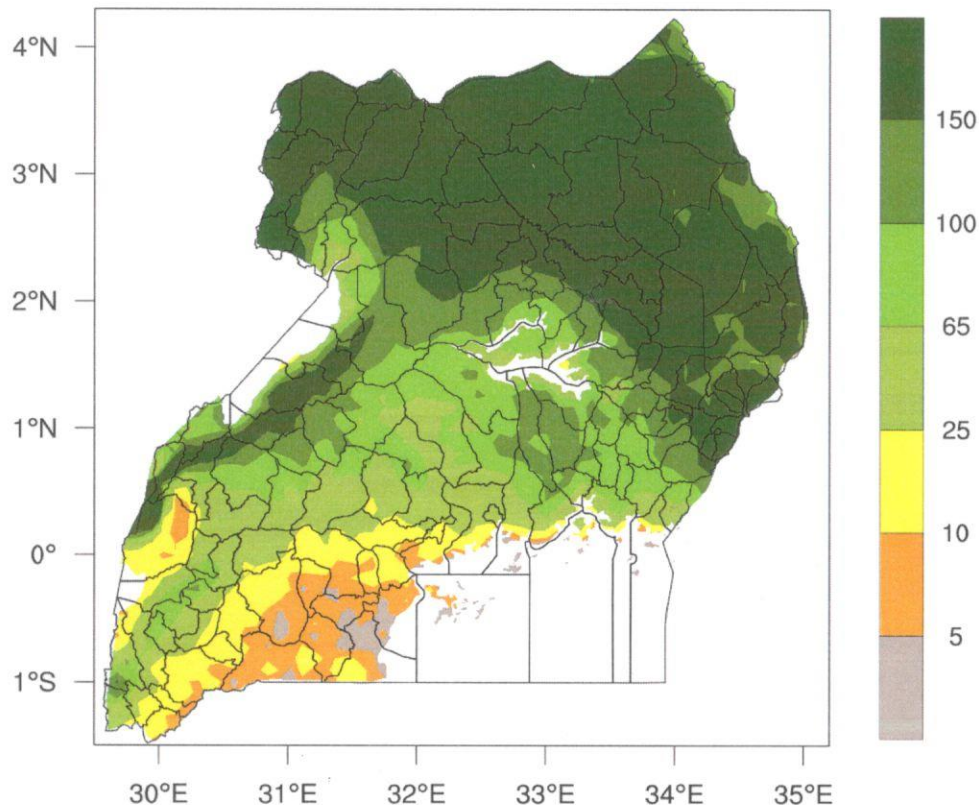
- The rainfall outlook for August indicates that areas of northern, eastern and parts of Mid-western are likely to receive enhanced rainfall while the rest of the country is likely to receive occasional rainfall.
- The month of July was generally dry characterised with suppressed rainfall over most parts of the country. However, some rainfall was registered in isolated parts of northern Uganda including Karamoja.

#### 2.0 Rainfall Outlook for August 2021

Overall, the August rainfall forecast indicates that several parts of northern, eastern and Mid-western Uganda are expected to experience near normal with slight tendency to above normal (enhanced) rainfall. The rest of the country are expected to receive occasional rainfall during the forecast period.

Generally, the month of August forms the last month of June, July and August rainfall season and is always characterised by southward movement of the rainfall belt from the north. The rainfall regime therefore, is expected to start drifting southerly from its current location in the north and that will lead to isolated outbreak of light showers over central, western, southwestern, L. Victoria basin and some parts of eastern regions whose weather conditions had been characterized by dry spell during the months of June and July, 2021. Wet conditions therefore, are expected in areas of West Nile, Acholi, Lango, Karamoja, parts of Eastern and Mid-western of Uganda. *Refer to Figure 1.*

### Rainfall Forecast (mm): for August 2021



*Figure 1: Expected Spatial rainfall distribution for August 2021*

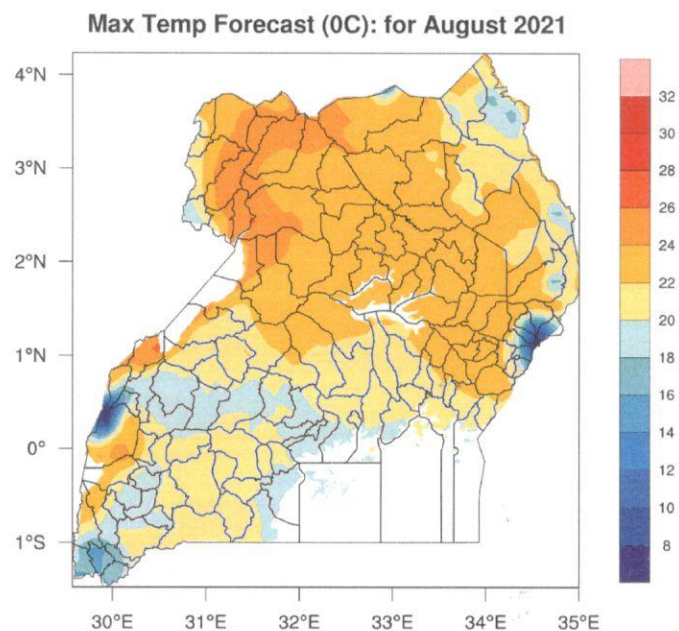
### 3.0 Temperature Forecasts for August, 2021

Overall, the temperature forecast indicates that warm temperatures are likely to be experienced during the forecast period.

#### 3.1 Maximum Temperature:

On average, the highest maximum temperatures are likely to range from 24°C to 30°C degrees centigrade (°C) in the northern parts of the country that include West Nile, Acholi, Lango, Teso, and parts of Karamoja and Bunyoro. The rest of country is expected to have temperatures in the range from 20°C to 24°C while the mountain areas of Rwenzori, Elgon and Kigezi highlands are expected to experience cooler temperatures in the range of 14°C to 18°C. The extreme Maximum temperatures however are expected along the Albert Nile valley. Refer to figure 2 below:

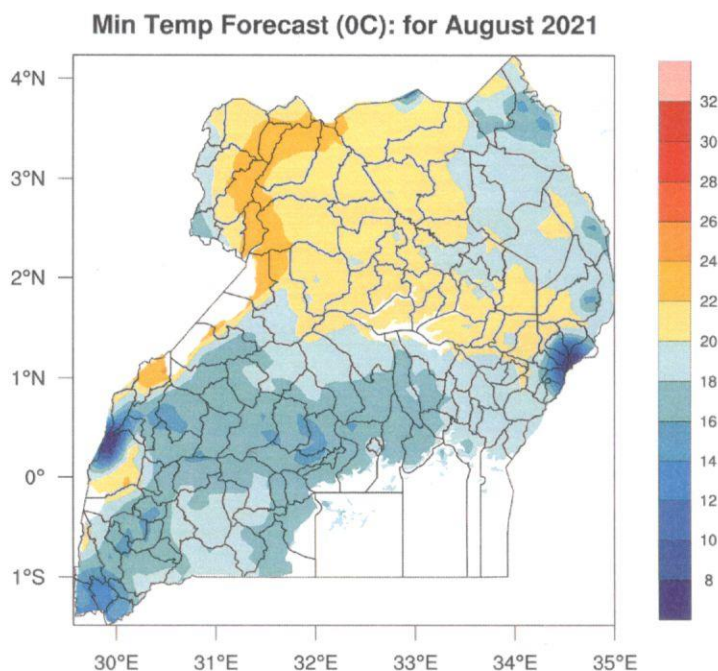




*Figure 2: Expected Spatial Maximum temperature over Uganda for August, 2021*

### 3.2 Minimum Temperature:

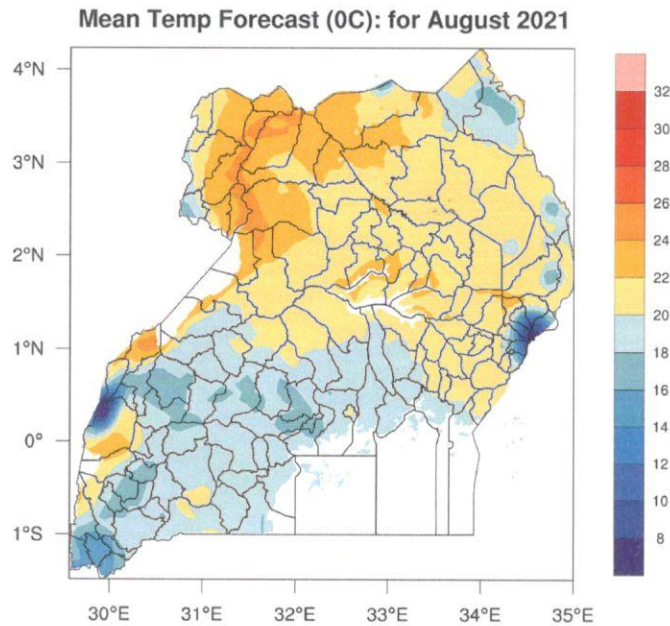
The minimum temperatures are expected to range between 14°C and 22°C over most parts of the country. Highland areas of Rwenzori, Elgon and Kigezi are likely to experience minimum temperatures ranging from 8°C to 14°C.



*Figure 3: Expected spatial minimum temperature over Uganda during August, 2021*

### 3.3 Mean Temperature:

The expected mean temperature is likely to range from 18°C to 22°C for the month of August, 2021.



**Figure 4:** *Expected mean daily temperatures over Uganda during the month of August, 2021.*

### 4.0 Potential impacts expected during August, 2021

The predicted rains over most parts of the north of the country and generally occasional rainfall in the south are expected to result into the following impacts;

- In Agricultural sector, especially in the north, farmers are advised to continue planting and weeding their crops while farmers in the south are expected to start preparation of their fields in anticipation of second rainy season.
- In pastoral areas especially in cattle corridor, the moderate rains will lead to further improvement in foliage and pasture for livestock.
- Chances of flooding are still likely in low lying areas including urban centres with poor drainage system especially in the north where rains are expected

## 5.0 Review of rainfall performance in July 2021

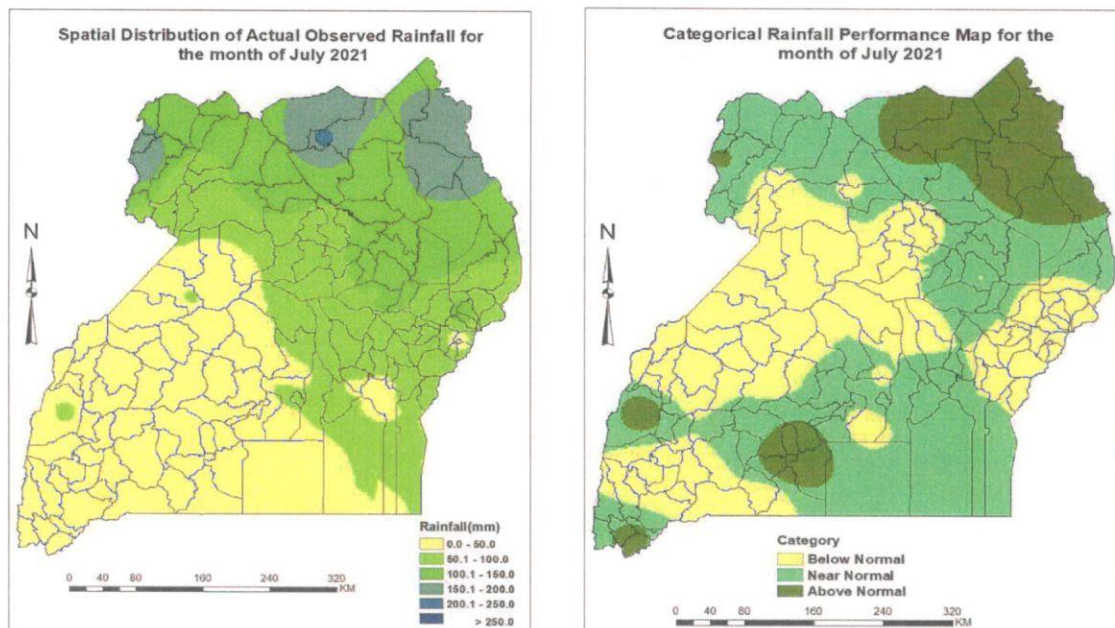
Generally, the month of July was characterised by dry conditions over most parts of the country. The dry conditions were predominant in South-western, western, central, and Eastern parts of country. The rainfall analysis for July, 2021 indicated that wet conditions were highly concentrated in northern Uganda as compared with the rest of the country.

From available records, the highest amount of rainfall during the month of July, was recorded at Kitgum station with a total of 206.3mm. This was followed by Kotido station, Arua and Atira S.S station in Serere District with amounts of about 198.1mm, 197.1mm and 141.9 mm respectively. The lowest amount of rainfall was experienced at Bushenyi station with a nil. Other stations with least amount include Kibanda in Rakai and Mbarara station with 5.3mm and 12.1mm respectively during the month of July, 2021.

In terms of temporal rainfall distribution (number of days with rainfall activity in a month), Kitgum and Kotido stations experienced the highest number of rain day activity with an observation of 15 days in the month. This was followed by Paimol station in Agago district and Arua station with totals of 13 and 12 days of rainfall respectively. The least number of rain days were reported in western region. Bushenyi station reported nill, Kibanda station reported 1 day while Kabale, Ntusi in sembabule and Kyembogo station in Kabarole district all reported 2 days of rainfall activity during the months of July 2021.

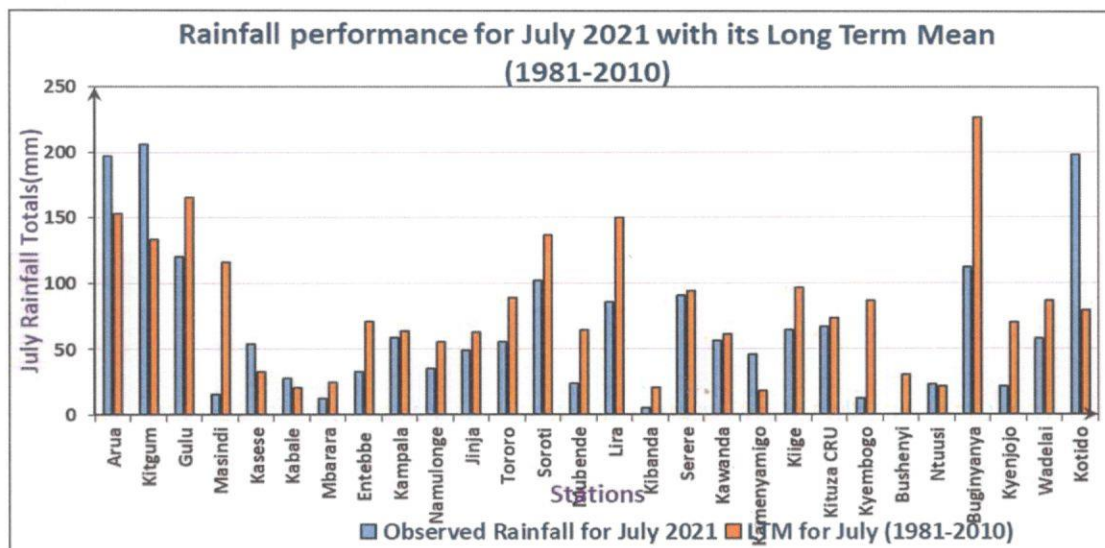
The highest maximum fall (highest amount recorded in a single day) was observed at Arua station with amount of 95.8mm on 26<sup>th</sup> July, 2021.

***Refer to Figure 2 and 3 below for further details.***



***Figure5: Spatial maps showing actual and Categorical Rainfall performance in July, 2021***





**Figure 6: Graph showing actual Observed Rainfall performance against Long Term Mean (LTM) in July, 2021**

## 5.0 Experienced impacts during July, 2021

The weather conditions experienced during the month of July impacted both positively and negatively on various sectors of the economy;

- In Agricultural sector, most farming communities in most northern parts of the country took advantage of rains and continued with their farming activities due to the continuation of rainfall;
- Flooding was experienced in some parts of the country such as Kasese district which affected many people's livelihoods;
- The poor rainfall performance in South Western Uganda impacted negatively on crop performance which is likely to have a major impact on the food security in the region;
- The dry weather conditions in South Western Uganda led to diminishing pastures and water for livestock in the region.

*NB: This outlook should be used together with the 24-hour, 10-day, and regular updates/advisories issued by UNMA.*

  
Festus Luboyera (Dr.)  
EXECUTIVE DIRECTOR

