



## **Weather Forecast for 1<sup>st</sup> to 10<sup>th</sup> December 2021**

### **1. Executive summary**

Rainfall ranging between 10 and 80 mm is expected in the next ten days. Rainfall is expected to increase from north to south due to southward migration of Inter-tropical Convergence Zone (ITCZ). Moderate rainfall ranging between 50 and 80 mm is expected in south western part of the country while depressed rainfall ranging between 10 and 30 mm is expected in most parts of Eastern Province, Kigali city and some parts of Northern Province. Rainfall ranging between 30 and 50 mm is expected in many parts of Northern Province, northern parts of Western Province and north and eastern parts of Southern Province. Rainy days are expected to vary between three (3) and six (6) with increased rainfall in first three days and decreases towards the end of forecasting period.

Strong winds with the speed ranging between 8m/s and 10m/s is expected in few parts of the country while most parts expected to have moderate winds tending to strong winds with the speed ranging between 6 and 8 m/s.

The mean maximum temperature for ten days will range between 18°C and 28°C depending on the location. The highest temperature expected is in the range of 26°C and 28°C in many parts of Kigali city, Eastern Province and Bugarama plain.

### **2. Forecast of rainfall**

Cumulative rainfall ranging between 10 and 80 mm is expected across the country during the first dekad of December 2021. Rainfall ranging between 70 and 80 mm is expected in Rusizi district. Rainfall ranging between 60 and 70 mm is expected in most parts of Nyamasheke, western part of Nyamagabe and Rubavu districts, western and southern parts of Nyaruguru district. Rainfall ranging between 50 and 60 mm is expected in Karongi district, remaining parts of Rubavu, Nyamasheke, Nyamagabe and Nyaruguru districts, western parts of Rutsiro, Ruhango, Nyanza and Huye districts, southern parts of Gisagara and Ngororero districts. Rainfall ranging between 30 and 50 mm is expected in Nyabihu, Gakenke, Rulindo, Kamonyi, Muhanga and Nyarugenge districts, southern parts of Burera, Musanze, Kirehe and Ngoma districts, western parts of Gicumbi and Bugesera districts and remaining parts of Gisagara, Huye, Nyanza and Ruhango districts. Rainfall ranging between 10 and 30 mm is expected in remaining parts of Eastern Province, Kigali City, Gicumbi, Burera and Musanze districts.

The rainfall is expected in first three days of the forecasting period and reduces towards the end, with rainy days ranging between three and six days according to location. The expected rainfall will be in the range of long term mean of 1<sup>st</sup> dekad of December in most parts of the country. The expected rainfall will be associated with thunderstorms and will result from southward migration of Inter Tropical Convergence Zone (ITCZ) within the region, which supports the enhancement of local effects in southern parts of the country.

### **3. Forecast of wind Speed**

During the first dekad of December 2021, moderate to strong winds ranging between 4m/s and 10m/s is expected across the country. The distribution map below indicates strong wind ranging between 8m/s and



10m/s in some localized parts of Ruhango and Karongi districts. Moderate wind ranging between 4m/s and 8m/s is expected in the remaining parts of the country.

#### 4. Forecast of maximum temperature

The expected maximum temperature during first dekad of December will range between 18°C and 28°C across the country. Higher values will range between 26°C and 28°C in Bugarama plain, Kigali city and many parts of Eastern Province. The areas expected to experience lower values of maximum temperature ranging between 18°C and 20°C include northern parts of Musanze, Burera, Nyabihu and Rubavu. The expected temperature is in the range of long term average across the country.

For more details on spatial distribution of rainfall, maximum temperature and wind speed, refer to the maps below.



