



Kigali, 31<sup>st</sup> December 2023

**Weather forecast valid between 1<sup>st</sup> and 10<sup>th</sup> January 2024**

1. **Rainfall forecast:** During the first (1<sup>st</sup>) dekad of January 2024, the considerable reduction of rain is expected in Kigali City, Eastern and Northern Provinces mainly during last six days of the dekad. The amount of rainfall ranging between 10 and 120 mm is expected across the country. The expected rainfall amount will be above the range of Long-Term Mean (LTM) during the first (1<sup>st</sup>) dekad across the country except in many parts of Eastern Province, Kigali City and Northern Province where LTM rainfall is predicted. (The range of LTM varies between 10 and 60 mm). Rainy days are expected to vary between two (2) and six (6) days. Predicted rain will be expected on the following dates 1<sup>st</sup>, 3<sup>rd</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> and 9<sup>th</sup> where above LTM rainfall is predicted while the rest of the country is predicted to receive rain on 1<sup>st</sup> 2<sup>nd</sup> and 3<sup>rd</sup>. The main factor influencing the rainfall is southward migration of Inter Tropical Convergence Zone (ITCZ) moderated by local factor.

**Spatial distribution of rainfall:** Rainfall ranging between 100 and 120 mm is the highest expected over eastern parts of Rusizi and Nyamasheke, western parts of Nyamagabe and Nyaruguru Districts, southern parts of Karongi mainly in Nyungwe National Park. Rainfall ranging between 80 and 100 mm is expected in remaining parts of Rusizi, Nyamasheke, Nyamagabe, Nyaruguru and Karongi Districts. It is also predicted in many parts of Rubavu and Huye Districts. The rainfall ranging between 10 and 20 mm is the lowest amount expected over eastern parts of Nyagatare, Kayonza, Gatsibo and localized parts of Kirehe and Bugesera Districts. The rest of Eastern Province and Kigali city are expected to record rainfall ranging between 20 and 40 mm while the remaining parts of Northern, Western and Southern Provinces are expected to experience rainfall ranging between 40 and 80 mm.

2. **Forecast of wind speed:** Moderate to slightly strong wind speed ranging between 4 and 8 m/s is expected across the country. Moderate to slightly strong wind speed ranging between 6 and 8 m/s (yellow colour ) is expected in many parts of Musanze, Burera, Southern Province except parts of Muhanga District and Eastern Province except in the parts of Ngoma, Rwamagana and Kirehe Districts together with the remaining parts of the country where moderate wind speed ranging between 4 and 6 m/s (green colour) is predicted.
3. **Temperature forecast:** During the first (1<sup>st</sup>) dekad of January 2024, the average maximum temperature is expected to range between 18°C and 30°C which is slightly below the range of LTM maximum temperature of first (1<sup>st</sup>) dekad of January. Many parts of Kigali City and Bugarama valley are expected to experience higher maximum temperature ranging between 28°C and 30°C. Western parts Nyabihu and Nyamagabe and northern parts Musanze Districts are expected to experience lower maximum temperatures ranging between 18°C and 20°C.
4. **Expected Impacts:** Impacts associated with heavy and accumulated rain are likely in south western parts of the country where increased rainfall (ranging between 80 and 120 mm) is expected. Likely impacts are flooding, poor visibility during rainstorms, soil erosion and landslides in areas of high slopes. Preparedness and mitigation measures should be put in place by relevant institutions and the public to minimize impacts that may be caused by the expected rain.



For more detailed information on spatial distribution map of rainfall, maximum temperature and wind speed, please refer to the following maps below.



