



## Weather Forecast for the month September 2022

### 1. Rainfall forecast

During the month of September 2022, the amount of rainfall ranging between 50 and 200 mm is expected across the country. Higher amount of rainfall varying between 175 and 200 mm is expected in some parts of Rubavu, Rutsiro, Nyamasheke and Burera Districts while rainfall ranging between 150 and 175 mm is forecasted in remaining parts of Nyamasheke, Rutsiro, Rubavu and Burera, in western parts of Nyamagabe, Nyaruguru, Karongi, Ngororero, Nyabihu and Nyagatare Districts, in northern parts of Gakenke and Gicumbi Districts and eastern parts of Rusizi, Nyagatare and Gatsibo Districts. A reduced amount of rainfall ranging between 50 and 75 mm is expected in localized areas of Nyaruguru, Gisagara, Ngoma and Kirehe Districts.

The spatial distribution maps shows that rainfall will decrease from North to South and this is due to approach of Inter-Tropical Convergence Zone (ITCZ) in its southward migration. Expected rainfall in September 2022 will be slightly above the range of Long Term Mean (LTM) in some parts of the country while many parts are expected to record rainfall within the range of LTM. The temporal distribution forecast shows that rainfall is well distributed across the month, with the first dekad being in the range of LTM in many parts of the country, the second dekad is expected to be slightly above the range of LTM and the third dekad expected to be in the range of LTM (the range of LTM for the month of September ranges between 50 and 200 mm). The main influencing drivers of the rainfall is southward migration of ITCZ which is approaching northern parts of the country.

### 2. Wind Speed forecast

The wind speed distribution as indicated by the map below for the month of September 2022 shows that there is increase in wind speed in most parts of the country. These strong winds are associated with rainfall onset which is predicted to start in the month September. Moderate to slightly strong winds ranging between 4m/s and 8m/s is expected across the country. Many parts of the country are expected to experience slightly strong wind ranging between 6 and 8 m/s (yellow colour). Strong wind ranging between 8m/s and 10m/s is expected in many parts of Western Province, Nyamagabe, Nyagatare, Gatsibo and Kirehe Districts and some localized parts of Nyaruguru, Nyanza, Kamonyi, Bugesera, Musanze and Burera Districts. Very strong wind ranging between 10 and 12 m/s is expected over many parts of Karongi and Rutsiro Districts and in localized parts of Nyamasheke, Rubavu and Gatsibo Districts.

### 3. Temperature forecast

During the month of September 2022, the maximum temperature is expected to range between 18°C and 32°C. Kigali City, Amayaga region, Bugarama plain, Bugesera, Western parts of Ngoma and southern parts of Rwamagana Districts are expected to experience higher temperature ranging between 29°C and 32°C while parts of Birunga National Park and its surrounding are expected to receive lower temperatures ranging between 18°C and 21°C. The expected temperature will be in above the range of Long Term Mean maximum temperature for the month of September.

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

