



Weather Forecast for the month October 2022

1. Update on Seasonal forecast for September to December (SOND) 2022

The drivers of seasonal forecast showed the persistence of Negative Indian Ocean Dipole (IOD) and La Nina conditions in Pacific Ocean which contributed to the October to December forecast (OND) as the update of September to December (SOND). Cumulative rainfall for the coming three month (October-November-December) of SOND season are expected to be below normal with the month of October expected to be normal and subsequent two months expected to be below normal. The expected below normal rainfall during October to December 2022 rainfall season may lead to extreme weather phenomena such as localized flooding, landslides, strong wind and other related weather extremes events in some parts of the country.

2. Rainfall forecast

During the month of October 2022, the amount of rainfall ranging between 50 and 200 mm is expected across the country which falls within the range of long term mean rainfall of October in many parts of the country. Higher amount of rainfall varying between 175 and 200 mm is expected over many parts Rusizi, Nyamasheke, Rutsiro, Rubavu, Western parts of Karongi, Ngororero, Nyabihu, Northern parts of Burera and Musanze Districts. Rainfall ranging between 150 and 175 mm is forecasted in remaining parts of Karongi, Ngororero, Rusizi, Nyabihu, Musanze, Burera, western parts of Nyamagabe and Nyaruguru Districts. A reduced amount of rainfall ranging between 50 and 75 mm is expected in localized areas of Nyagatare, Kayonza and Kirehe Districts.

The spatial distribution maps shows that rainfall will decrease from West to East due to influence of local feature such as forests, lakes and topography. Expected rainfall in October 2022 will be in the range of Long Term Mean (LTM) across the country. The temporal distribution forecast shows that rainfall is evenly distributed across the month, with each dekad expected to receive rainfall in the range of LTM countrywide. (the range of LTM for the month of October is between 50 and 200 mm).

3. Wind Speed forecast

The wind speed distribution as indicated by the map below for the month of October 2022 shows moderate to strong wind ranging between 4m/s and 10m/s is expected across the country. Many parts of the country are expected to experience slightly strong winds ranging between 6 and 8 m/s (yellow colour). Strong wind ranging between 8m/s and 10m/s (amber colour) is expected in many parts of Kayonza, Gatsibo, Ruhango and Nyanza and over parts of Rwamagana, Muhanga, Huye and Gisagara Districts.

4. Temperature forecast

During the month of October 2022, the maximum temperature is expected to range between 18°C and 32°C. Parts of Kigali City, Amayaga region, Bugarama plain, Bugesera and Western parts of Ngoma District 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 the range of Long Term Mean maximum temperature for the month of October.



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

