



Weather Forecast for the month of October 2023

1. Rainfall forecast

During the month of October 2023, the amount of rainfall ranging between 50 and 250 mm is expected across the country. The expected rainfall for the month of October 2023 will be slightly above the range of Long-Term Mean (LTM) in Western and Northern Provinces while the rest of the country is expected to record rainfall within the range of LTM (the LTM rainfall for the month of October ranges between 50 and 200mm). The first dekad is expected to record below the Long Term Mean (LTM) rainfall for the dekad 1 while the remaining two subsequent dekads are expected to record above the range of LTM. The main drivers of expected rainfall in this month are positive Indian Ocean Dipole (IOD) condition and El Nino conditions in Indian and Pacific Oceans respectively.

The spatial distribution map below shows that higher amount of rainfall is expected to range between 200 and 250 mm over many parts of Nyamasheke, Rutsiro and Rubavu Districts, Western parts of Ngororero, Nyabihu and Nyamagabe Districts and northern parts of Burera, Musanze and Rusizi Districts. Rainfall ranging between 150 and 200mm is expected in the remaining parts of Western Province, Musanze and Burera Districts, northern parts of Gicumbi, Rulindo and Gakenke Districts and central parts of Nyamagabe and Nyaruguru. A reduced amount of rainfall ranging between 50 and 100 mm is expected over many parts of eastern Province and Amayaga region. The remaining parts of the country are expected to record rainfall ranging between 100 and 150 mm.

2. Wind Speed forecast

The wind speed distribution indicated by the map below for the month of October 2023 shows that strong wind speed ranging between 6m/s and 12m/s is expected across the country. Strong wind speed ranging between 6 and 8 m/s (yellow colour) is expected over central parts of the country while the rest of the country is expected to record strong wind speed ranging between 8 and 10 m/s (amber colour) except in localised areas of Karongi District where greater than 10 m/s (red colour) wind speed is expected.

3. Temperature forecast

During the month of October 2023, the mean maximum temperature is expected to range between 20°C and 32°C. Temperature ranging between 30°C and 32°C is the highest expected in this month over Many parts of Eastern Province, Kigali City, Amayaga region and southern parts of Rusizi District. Lower maximum temperature is expected to range between 20°C and 22°C in the northern parts of Nyabihu and Musanze Districts. The expected temperature will be within the range of Long Term Mean (LTM) maximum temperature for the month of October 2023.

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

