



Kigali, 2nd December 2023

Weather Forecast for the month of December 2023

1. Rainfall forecast

During the month of December 2023, the amount of rainfall ranging between 100 and 300 mm is expected across the country. The expected rainfall in the month of December 2023 will be above the range of Long-Term Mean (LTM) countrywide. The first and third dekad of December are expected to record rainfall above the LTM while second Dekad is expected to receive rainfall in the range of LTM. The main drivers are positive Indian Ocean Dipole (IOD) El Nino conditions in Pacific Ocean and southward movement of Intertropical Convergence Zone (ITCZ) respectively.

The spatial distribution map shows expected higher amount of rainfall ranging between 250 and 300 mm over many parts of Rusizi, Nyamasheke, Nyamagabe, Nyaruguru Districts, western parts of Huye and Nyanza District, western and southern parts of Karongi District and northern parts of Burera District. Rainfall ranging between 200 and 250mm is expected in Northern Province, except in southern parts of Gakenke, Rulindo and Gicumbi, and in the remaining parts of Western and Southern Provinces, except in Muhanga, Kamonyi and in eastern parts of Ruhango and Nyanza Districts, which are expected to receive rainfall ranging between 150 and 200. The same amount of rainfall (150-200 mm) is also expected over Kigali City, southern parts of Eastern Province (Ngoma, Kirehe, Bugesera, southern parts of Kayonza and western parts of Gatsibo and Nyagatare). The remaining parts of Eastern Province are expected to receive rainfall ranging between 100 and 150 mm.

2. Wind Speed forecast

The wind speed distribution indicated by the map for the month of December 2023 shows that moderate to strong wind speed ranging between 4m/s and 8m/s is expected across the country. Strong wind speed ranging between 6 and 8 m/s (yellow colour) is expected over Kigali city, in most parts Eastern and Southern Provinces, Burera, Musanze, Nyabihu and Rubavu Districts; southern parts of Gicumbi, Rulindo and Muhanga Districts. Moderate wind speed ranging between 4 and 6 m/s is expected in Nyagatare Districts and in remaining parts of Northern and Western Provinces.

3. Temperature forecast

During the month of December 2023, the mean maximum temperature is expected to range between 18°C and 28°C. Temperature ranging between 26°C and 28°C is the highest expected in the month of December 2023 over Many parts of Eastern Province, Kigali City, Amayaga region and southern parts of Rusizi District. Lower maximum temperature is expected to range between 18°C and 20°C in the most parts of Nyabihu and Musanze Districts, and in eastern parts of Rubavu District. The expected temperature will be within the range of Long-Term Mean (LTM) maximum temperature for the month of December 2023.

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

