



REPUBLIC OF KENYA

MINISTRY OF ENVIRONMENT, CLIMATE CHANGE & FORESTRY

KENYA METEOROLOGICAL DEPARTMENT

Dagoretti Corner, Ngong Road, P. O. Box 30259-00100, GPO, Nairobi, Kenya

Telephone: +254 (0) 20 38567880-7, +254 724 255 153-4

E-mail: director@meteo.go.ke, info@meteo.go.ke Website: http://www.meteo.go.ke

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SEVEN-DAY WEATHER FORECAST VALID FROM 31 OCTOBER TO 6 NOVEMBER 2023

HIGHLIGHTS

Forecast for 31 October to 6 November 2023

- Rainfall is expected to continue over most parts of the country.
- Isolated storms are likely to occur in some parts of the Highlands East and West of the Rift Valley, the South-eastern lowlands, the Coast, North-western and North-eastern Kenya.

Weather Review for 23 to 29 October 2023

- Rainfall continued to be recorded in most parts of the country.
- Isolated storms occurred in a number of Counties including Kitui, Tharaka Nithi, Embu, Isiolo, Meru and Marsabit.
- Day-time (maximum) temperatures increased over most parts of the country.
- Night-time (minimum) temperatures increased over some stations including Kitui, Mombasa and Suba and decreased over others like Nyahururu, Narok and Kabarak.

1 FORECAST FOR 31 OCTOBER TO 6 NOVEMBER 2023

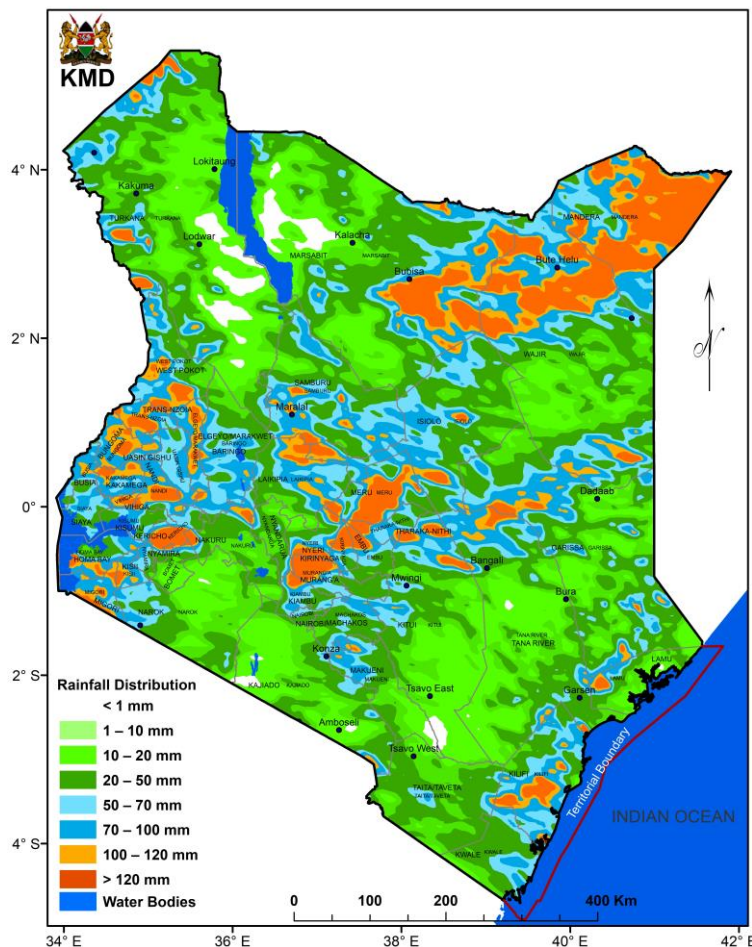


FIG 1: FORECASTED SEVEN-DAY TOTAL RAINFALL FOR 31 OCTOBER TO 6 NOVEMBER 2023

Rainfall is expected to continue over most parts of the country as depicted by **Figure 1**. Isolated storms are likely to occur in some parts of the Highlands East and West of the Rift Valley, the South-eastern lowlands, the Coast, North-western and North-eastern Kenya.

Moderate average daytime (maximum) temperatures of between 20°C and 30°C are expected over much of the Highlands East and West of the Rift Valley and the South-eastern lowlands as depicted by **Figure 2**. The same areas will also experience moderate average night-time (minimum) temperatures of between 10°C and 20°C as depicted by **Figure 3**.

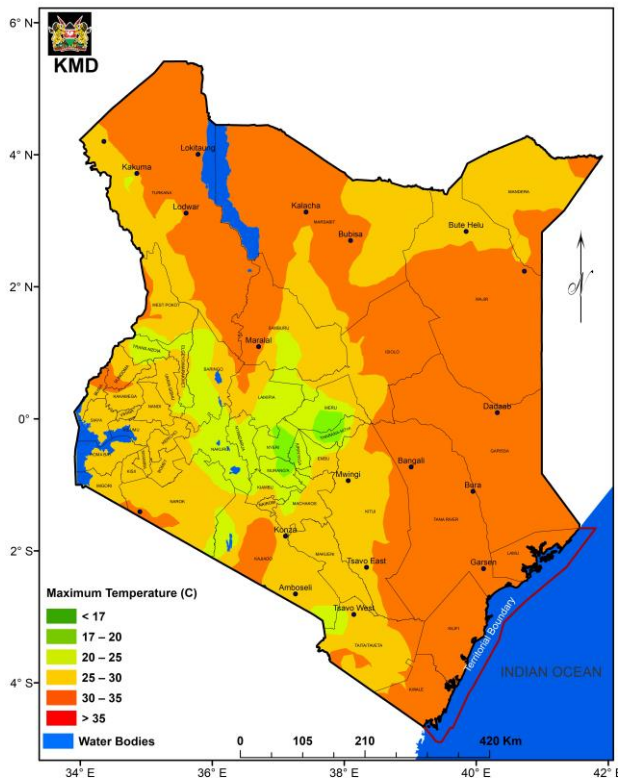


FIG 2: FORECASTED AVERAGE MAXIMUM TEMPERATURES FOR 31 OCTOBER TO 6 NOVEMBER 2023

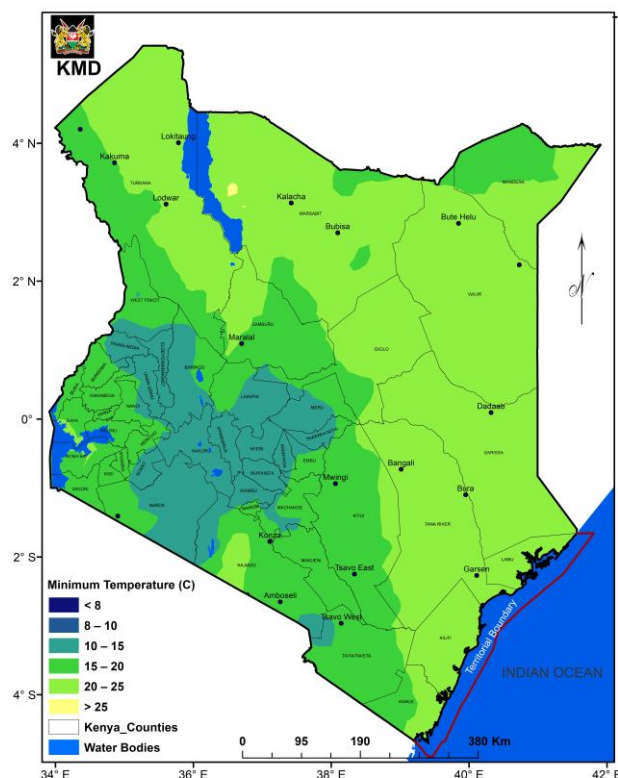


FIG 3: FORECASTED AVERAGE MINIMUM TEMPERATURES FOR 31 OCTOBER TO 6 NOVEMBER 2023

1.1 DETAILED REGIONAL FORECAST FOR 31 OCTOBER TO 6 NOVEMBER 2023

1.1.1 The Highlands West of the Rift Valley, the Lake Victoria Basin and the Rift Valley (*Kisii, Nyamira, Nandi, Kericho, Bomet, Kakamega, Vihiga, Bungoma, Siaya, Kisumu, Homabay, Busia, Migori, Narok, Baringo, Nakuru, Trans-Nzoia, Uasin-Gishu, Elgeyo-Marakwet and West-Pokot Counties*):

Morning rains as well as afternoon and night showers and thunderstorms are expected over few places occasionally spreading to several places.

In Kisumu maximum (day-time) temperatures will be as high as 30°C with minimum temperatures of up to 17°C.

For Kericho maximum (day-time) temperatures will rise to 28°C while minimum (night-time) temperatures will drop to 09°C.

1.1.2 North-western Kenya (*Turkana and Samburu Counties*):

Morning rains as well as afternoon and night showers and thunderstorms are expected over few places occasionally spreading to several places.

Lodwar will experience high maximum (day-time) temperatures of up to 36°C and nights will also be warm with minimum temperatures approaching 20°C.

Maralal will be cooler with maximum (day-time) temperatures rising to 26°C while minimum (night-time) temperatures will go down to 12°C.

1.1.3 The Highlands East of the Rift Valley (including Nairobi County) (*Nyandarua, Laikipia, Nyeri, Kirinyaga, Murang'a, Kiambu, Meru, Embu, Tharaka-Nithi and Nairobi Counties*):

Morning rains as well as afternoon and night showers are expected over few places occasionally spreading to several places.

Maximum (day-time) temperatures will rise to 29°C in Thika while minimum (night-time) temperatures will be as low as 15°C.

Nyahururu will be generally cool with maximum (day-time) temperatures not exceeding 26°C and minimum (night-time) temperatures dropping to 06°C.

1.1.4 North-eastern Kenya (*Marsabit, Mandera, Wajir, Garissa and Isiolo Counties*):

Morning rains as well as afternoon and night showers are expected over few places occasionally spreading to several places.

Garissa will experience high maximum (day-time) temperatures of up to 36°C and minimum (night-time) temperatures approaching 24°C.

Marsabit will be cooler with maximum (day-time) temperatures rising to 26°C while minimum (night-time) temperatures will be as low as 16°C.

1.1.5 The South-eastern lowlands (*Machakos, Kitui, Makueni, Kajiado and Taita-Taveta Counties*):

Morning rains as well as afternoon and night showers are expected over few places occasionally spreading to several places.

In Voi maximum (day-time) temperatures will rise to 32°C while minimum (night-time) temperatures will be as low as 20°C.

Machakos will experience moderate maximum (day-time) temperatures of up to 26°C with minimum (night-time) temperatures dropping to 14°C.

1.1.6 The Coast (*Mombasa, Tana-River, Kilifi, Lamu and Kwale Counties*):

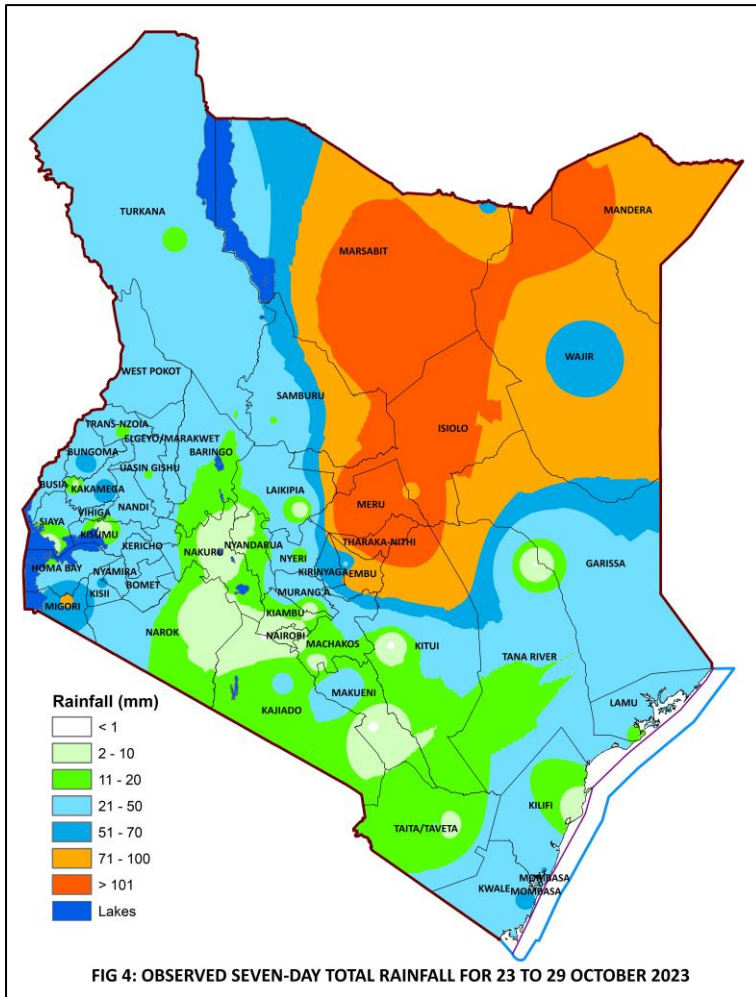
Morning, afternoon and night showers are expected over few places occasionally spreading to several places.

In Lamu, maximum (day-time) temperatures will be as high as 32°C while minimum (night-time) temperatures will drop to 23°C.

Maximum (day-time) temperatures will rise to 31°C in Mtwapa with minimum (night-time) temperatures of up to 23°C.

1.2 WEATHER REVIEW FOR 23 TO 29 OCTOBER 2023

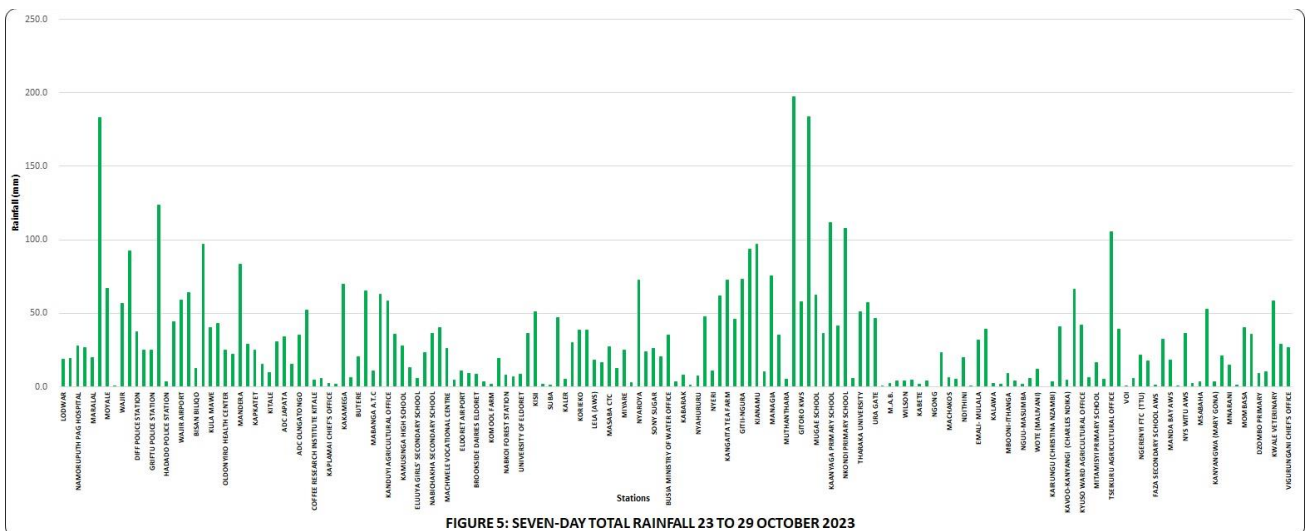
1.2.1 Rainfall Review



Rainfall continued to be recorded in most parts of the country as depicted by **Figures 4 & 5**.

Isolated storms occurred in a number of Counties including Kitui, Tharaka Nithi, Embu, Isiolo, Meru and Marsabit.

Comparing the 16 to 22 October 2023 and the 23 to 29 October 2023 periods, it is noted that there was an increase in rainfall amounts over North Eastern Kenya and a decrease over the Highlands West of the Rift Valley and the Lake Victoria Basin.



The highest seven-day rainfall total (197.6mm) was recorded at Meru Meteorological Station. Other stations that recorded significant rainfall totals during the review period are shown in **Table 1**.

TABLE 1: STATIONS WITH SIGNIFICANT SEVEN-DAY RAINFALL TOTALS		
STATION	COUNTY	SEVEN-DAY TOTAL RAINFALL (mm)
LOWER CHURE SECONDARY SCHOOL RAINFALL STATION	MERU	184.0
MARSABIT METEOROLOGICAL STATION	MARSABIT	183.1
GURAR RAINFALL STATION	WAJIR	123.8
KAANYAGA PRIMARY SCHOOL RAINFALL STATION	THARAKA NITHI	111.9
NKONDI PRIMARY SCHOOL RAINFALL STATION	THARAKA NITHI	107.5
TSEIKURU AGRICULTURAL OFFICE RAINFALL STATION	KITUI	105.4
KINNA RAINFALL STATION	ISIOLO	97.2
KIANAMU RAINFALL STATION	EMBU	97.0
BUTE RAINFALL STATION	WAJIR	92.5
MANDERA METEOROLOGICAL STATION	MANDERA	83.3

The rainfall station at Tseikuru Agricultural Office in Kitui County recorded the highest amount of rainfall within 24-hours: 105.4mm on 25 October 2023. Other stations that recorded very heavy rainfall (more than 50mm within 24 hours) are shown in **Table 2**.

TABLE 2: STATIONS THAT RECORDED VERY HEAVY RAINFALL			
STATION	COUNTY	AMOUNT (mm)	DATE
KAANYAGA PRIMARY SCHOOL RAINFALL STATION	THARAKA NITHI	87.6	25 October 2023
KIANAMU RAINFALL STATION	EMBU	82.8	25 October 2023
KASAFARI RAINFALL STATION	EMBU	80.0	25 October 2023
LOWER CHURE SECONDARY SCHOOL RAINFALL STATION	MERU	75.8	29 October 2023
KINNA RAINFALL STATION	ISIOLO	72.1	29 October 2023
MERU METEOROLOGICAL STATION	MERU	71.8	29 October 2023
GITII-NGURA RAINFALL STATION	EMBU	65.7	25 October 2023
MANAGIA RAINFALL STATION	EMBU	64.5	25 October 2023
GITORO KWS RAINFALL STATION	MERU	58.0	29 October 2023
MARSABIT METEOROLOGICAL STATION	MARSABIT	55.6	24 October 2023

1.2.2 Temperature Review

Comparing the 16 to 22 October 2023 and the 23 to 29 October 2023 periods, it is noted that day-time (maximum) temperatures increased over most parts of the country. Night-time (minimum) temperatures increased over some stations including Kitui, Mombasa and Suba and decreased over others like Nyahururu, Narok and Kabarak.

Lodwar Meteorological Station recorded the highest daily maximum temperature: 37.8°C on 24 October 2023 while Nyahururu Meteorological Station recorded the lowest daily minimum temperature: 5.8°C on 28 October 2023. Garissa Meteorological Station recorded the highest seven-day average maximum temperature: 36.5°C while Nyahururu Meteorological Station recorded the lowest seven-day average minimum temperature: 6.7°C (see **Figure 6**).

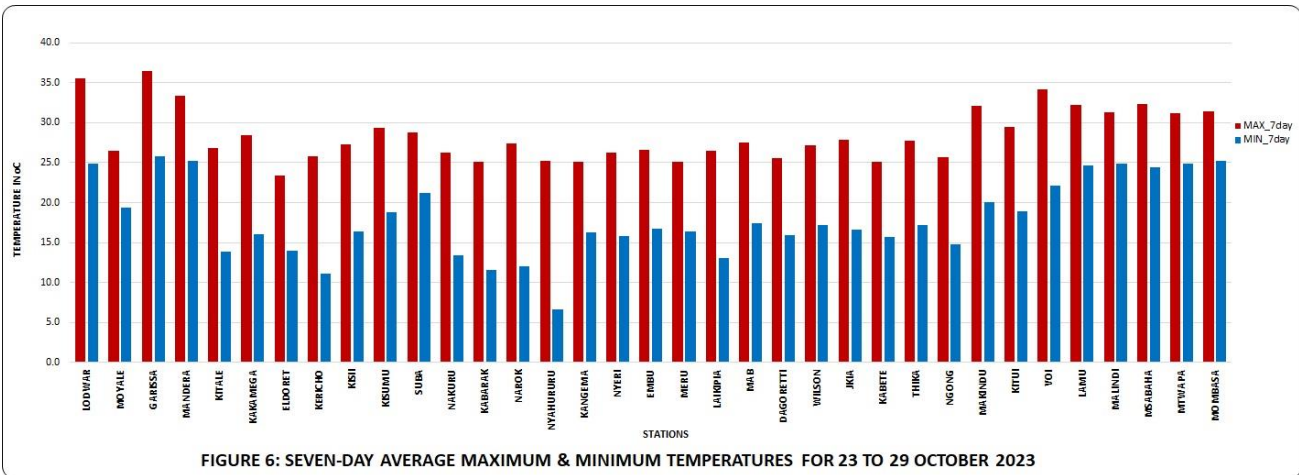


FIGURE 6: SEVEN-DAY AVERAGE MAXIMUM & MINIMUM TEMPERATURES FOR 23 TO 29 OCTOBER 2023

N.B: This forecast should be used in conjunction with the daily (24-hour) and five-day forecasts issued by this Department. County specific forecasts are available from the offices of respective County Directors of Meteorology.

KEY OF SCIENTIFIC WORDS USED

24-hour rainfall categories	
Range	Category
<5mm	Light
5-20mm	Moderate
20-50mm	Heavy
>50mm	Very heavy

Rainfall coverage	
Term	Meaning
Most places	Between 66% and 100%
Several places	Between 33% and 66%
Few places	Less than 33%

Kennedy Thiong'o
For DIRECTOR OF METEOROLOGICAL SERVICES