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MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY
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Biometeorological Services Division

WEEKLY BIOMETEOROLOGICAL BULLETIN (6TH MAY–12TH MAY 2025)

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PREAMBLE

Biometeorology is an interdisciplinary science of interactions between atmospheric processes and living organisms - plants, animals and human-beings. The Biometeorological Services Division collects, analyzes and interprets Meteorological and Health data in liaison with partners in the Health Sector for advisory development.

The weather information provided is aimed at guiding residents to identify and recognize the likelihood of occurrence of weather-related health diseases according to the issued advisories and take necessary action.

Summary

Heavy rainfall can cause flooding and water contamination, leading to the water-borne diseases such as cholera and typhoid fever. Mosquitoes and other insects that carry diseases such as dengue fever, malaria and Zika virus thrive in warm and humid conditions, which can be created by heavy rainfall. Rain can lead to increase in respiratory illnesses and pneumonia due to dampness and mold growth.

REVIEW FOR PREVIOUS WEEK (28TH APRIL – 4TH MAY, 2025)

1.1 Rainfall

This section lists stations recorded more than **50mm** total rainfall in the last **7 days**. Stations such as **Kangema, Kisii, Marsabit, Kakamega** and **Kisumu** recorded total weekly rainfall above **50mm**. This is shown in Table 1 below.

Table 1:

Station	Total weekly rainfall amounts
Kangema Met	226.8mm
Kisii Met	81.4mm
Marsabit Met	77.0mm
Kakamega Met	73.4mm
Kisumu Met	53.5mm

1.2 High Temperatures

This section lists stations that recorded average temperatures exceeding **35°C** in the last **7 days**. Station such as **Mandera** recorded average weekly temperatures exceeding **35°C** as shown in Table 2 below.

Table 2:

Station	Average weekly maximum temperature
Mandera Met	37.4°C

1.3 Low Temperatures

This section lists stations that recorded average temperatures below **10°C** in the last **7 days.** Station such as **Nyandarua (Nyahururu)** recorded lower temperatures. The station recorded an average weekly temperature below 10°C as shown in Table 3 below.

Table 3:

Station	Average weekly minimum temperature.
Nyahururu Met	7.8°C

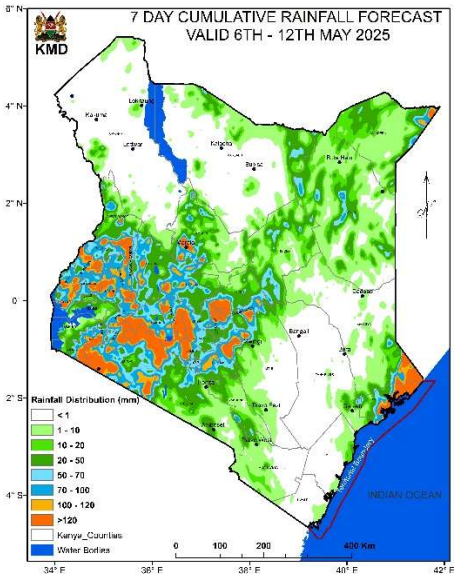
1.4 High Winds

This section list stations that recorded winds with speeds of more than **25 knots (12.9 metres per sec)** in the last 7 days. This was recorded in **Marsabit** Met station.

2.0 FORECAST FOR (29TH APRIL– 5TH MAY, 2025)

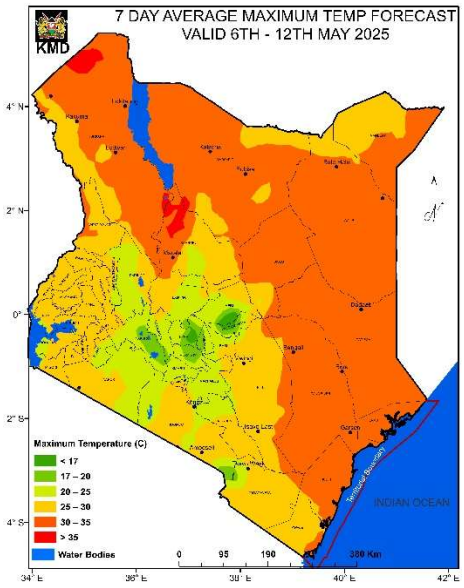
Rainfall

Rainfall amounts exceeding **50mm** is to be expected over some parts of **Mandera, Wajir, Isiolo, Samburu, Laikipia, Machakos, Nairobi, Nyandarua, Makueni, Kajiado, Kericho, Nyamira, Kisii, Migori, Homabay, Kisumu, Kericho, Uasin gishu, Elgeyo Marakwet, Transnzoia, West Pokot, Bungoma, Kakamega, Busia, Vihiga, Nandi, Siaya, Bomet, Narok, Nakuru, Kiambu, Murang'a, Kirinyaga, Meru** and **Lamu** counties during the forecast period of Tuesday 6th May 2025 to Monday 12th May 2025.



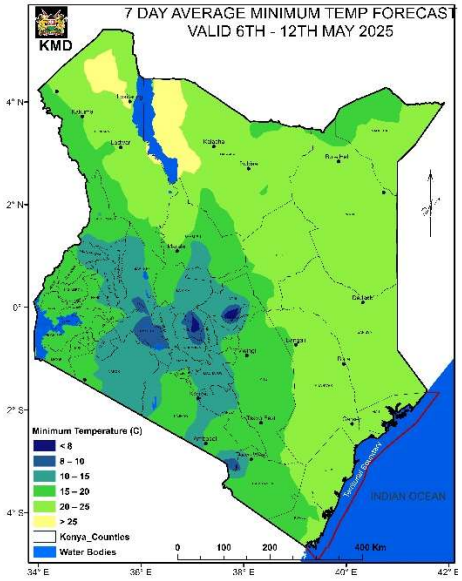
High Temperature

Temperatures exceeding **35°C** is to be expected in parts of **Samburu** and **Turkana (Lodwar)** Counties during the forecast period of Tuesday 6th May 2025 to Monday 12th May 2025.



Low Temperature

Temperature of less than **10°C** is expected over Counties like **Nakuru, Nyeri, Murang'a, Nyandarua (Nyahururu), Meru, Tharaka Nithi and Kirinyaga** during the forecast period of Tuesday 6th May 2025 to Monday 12th May 2025.



Winds

Winds of more than **25 knots (12.9m/s)** are expected over parts of **Marsabit County** during the forecast period of Tuesday 6th May 2025 to Monday 12th May 2025.

3.0 Meteorological Advisory on Weather-Related Risks

Residents are encouraged to monitor the following weather conditions and their potential impacts:

1. Rainfall

- Forecast: Some areas are expected to receive more than **50 mm** of rainfall during the week.
- Implications: Increased risk of **flooding** in low-lying areas and along riverbanks. Higher likelihood of **waterborne diseases** due to contaminated water sources.
- Recommendation:

1. Use clean, boiled, or treated water for drinking and cooking.
2. Stay Informed: Keep up with updates from the Kenya Meteorological Department regarding rainfall forecasts and advisories.

2. High Temperatures

Forecast: Anticipated temperatures may **exceed 35°C** in several counties.
Implications: High temperatures can lead to heat stress and dehydration.
Recommendations: Limit outdoor activities during peak heat hours (10 AM - 4 PM). Stay hydrated by drinking plenty of water. Dress in light, breathable clothing and seek shade or air-conditioned spaces when possible.

3. Cold Weather Conditions

Forecast: Some areas may experience temperatures **below 10°C**.
Implications: Increased cases of **respiratory diseases** such as **flu, pneumonia**, and **asthma** attacks. Children, the elderly, and individuals with chronic illnesses are at higher risk.
Recommendations: Dress warmly and limit exposure to cold, especially for vulnerable populations.

4. Strong Winds

Forecast: Winds **exceeding 25 knots (12.9 m/s)** are expected in specific regions.
Implications: High winds can lead to dust storms, reduced visibility, and potential property damage.
Recommendations. Be aware of potential **respiratory** issues due to airborne particles.

Conclusion

Residents are encouraged to take proactive measures to safeguard themselves and their communities against the anticipated weather conditions. For accurate and timely updates, this advisory should be used in conjunction with the daily forecasts issued by the Kenya Meteorological Department.
Stay Safe and Informed.

Dr Gikungu
DIRECTOR OF KENYA METEOROLOGICAL DEPARTMENT