MONTHLY RAINFALL ANALYSIS

JUNE 2026

GHANA METEOROLOGICAL AGENCY

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JUNE 2026 RAINFALL AMOUNT & FREQUENCY OVER GHANA

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SUMMARY

June 2026 was characterized by predominantly above normal rainfall conditions across most parts of Ghana, particularly in the southern sector, where both rainfall amounts and the number of rainy days exceeded the 1991 – 2020 climatological average. Several locations in the Greater Accra, Central, Western, Western North, Ashanti, and Volta Regions recorded exceptionally wet conditions, with rainfall totals reaching 200 – 300% of normal. In contrast, rainfall distribution in northern Ghana was more variable, with some localized areas experiencing below normal rainfall amounts and fewer rainy days.

Rainfall Amount Analysis for June 2026

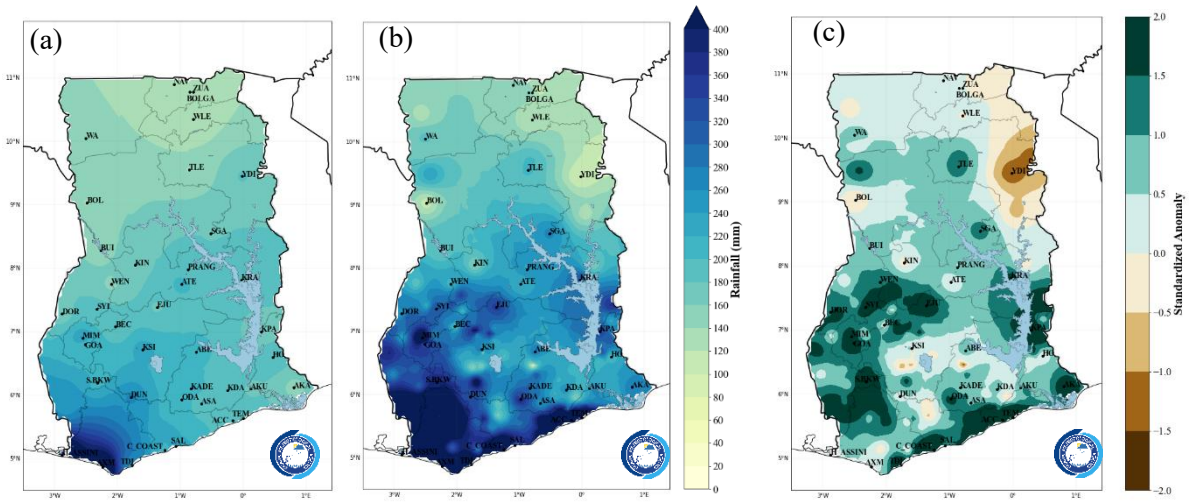

Figure 1. *(a) June Rainfall Climatology (1991 – 2020), (b) June 2026 Rainfall, (c) June 2026 Rainfall Standardized Anomaly*

Figure 1 illustrates the spatial distribution of rainfall across Ghana for June. ***Figure 1(a)*** presents the 1991 – 2020 climatological mean rainfall, showing that monthly rainfall totals typically range from 120 to 500 mm across the country, with the highest amounts occurring in the south-western parts. ***Figure 1(b)*** shows the observed rainfall distribution for June 2026, indicating that most areas in the south of the country (below Lat. 8°N) experienced above

normal rainfall. Regions including Greater Accra, Central, Western, Western North, Ashanti and Volta recorded above normal rainfall, with locations such as Accra, Tema and Cape Coast registering rainfall totals 200–300% above their climatological averages. In contrast, rainfall across the northern sector (above Lat. 8°N) was more variable, with cumulative amounts generally ranging from 90 to 250 mm. ***Figure 1(c)*** presents the standardized rainfall anomaly for June 2026, which reveals predominantly positive rainfall anomalies across most parts of the country, indicating wetter-than-normal conditions. Negative rainfall anomalies were confined to a few northern areas, particularly around Bole, Yendi and Walewale.

Rainfall Frequency Analysis for June 2026

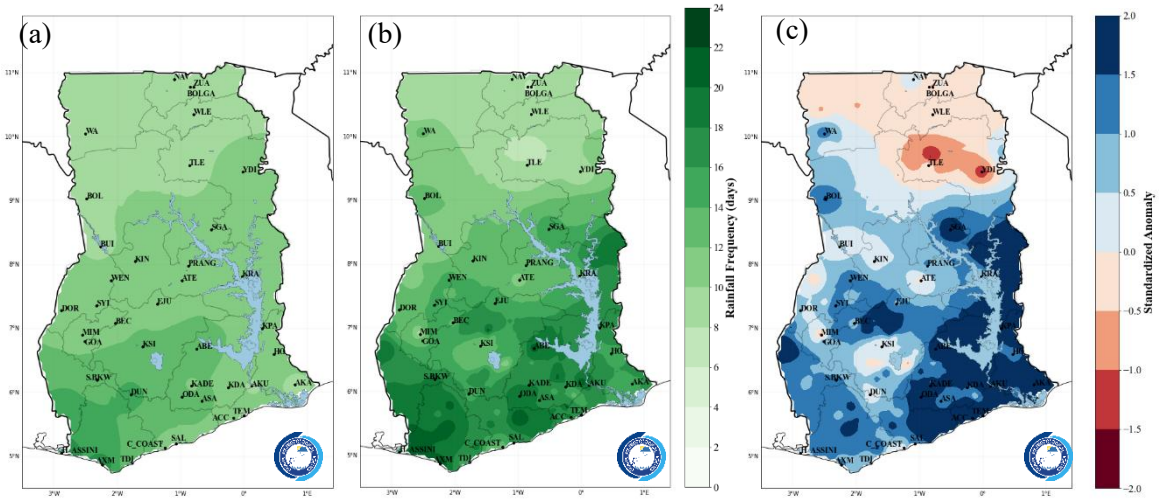

Figure 2. *(a) June Rainfall Frequency Climatology (1991–2020), (b) June 2026 Rainfall Frequency, (c) Rainfall Frequency Anomaly for June 2026*

Figure 2 presents the spatial distribution of rainfall frequency for June. ***Figure 2(a)*** shows the 1991 – 2020 climatological rainfall frequency, indicating that most parts of Ghana typically experience 8 to 17 rainy days during the month, with the southern sector generally recording more than 10 rainy days. ***Figure 2(b)*** illustrates the observed rainfall frequency for June 2026, which shows an increase in the number of rainy days across much of southern Ghana, where many stations recorded approximately 18 – 22 rainy days. In the northeastern sector, rainfall frequency ranged from 7 to 20 rainy days, reflecting greater spatial variability. ***Figure 2(c)*** presents the standardized rainfall frequency anomaly, showing predominantly positive anomalies across the southern parts of the country. Stations including Accra, Tema, Akuse, Akatsi, Kpando, Abetifi, Kade and Akim Oda experienced more rainy days than their climatological average. Conversely, negative rainfall frequency anomalies were observed across parts of northern Ghana, particularly around Yendi, Tamale, Walewale, Bolgatanga and Zuarungu, indicating fewer rainy days than normal.

JUNE 2026 RAINFALL FORECAST VERIFICATION

The forecast verification was conducted using a tercile-based categorical approach. Climatological rainfall distributions for the period 1991 – 2020 were used to derive lower and upper tercile thresholds for each station for the month of June. Observed rainfall totals for June 2026 were classified into Below Normal, Near Normal or Above Normal categories based on these thresholds. The classified observations were then compared with the issued probabilistic monthly forecast. A forecast was considered a hit when the observed category fell within the forecasted category or category range with the highest forecast probabilities; otherwise, it was classified as a miss.

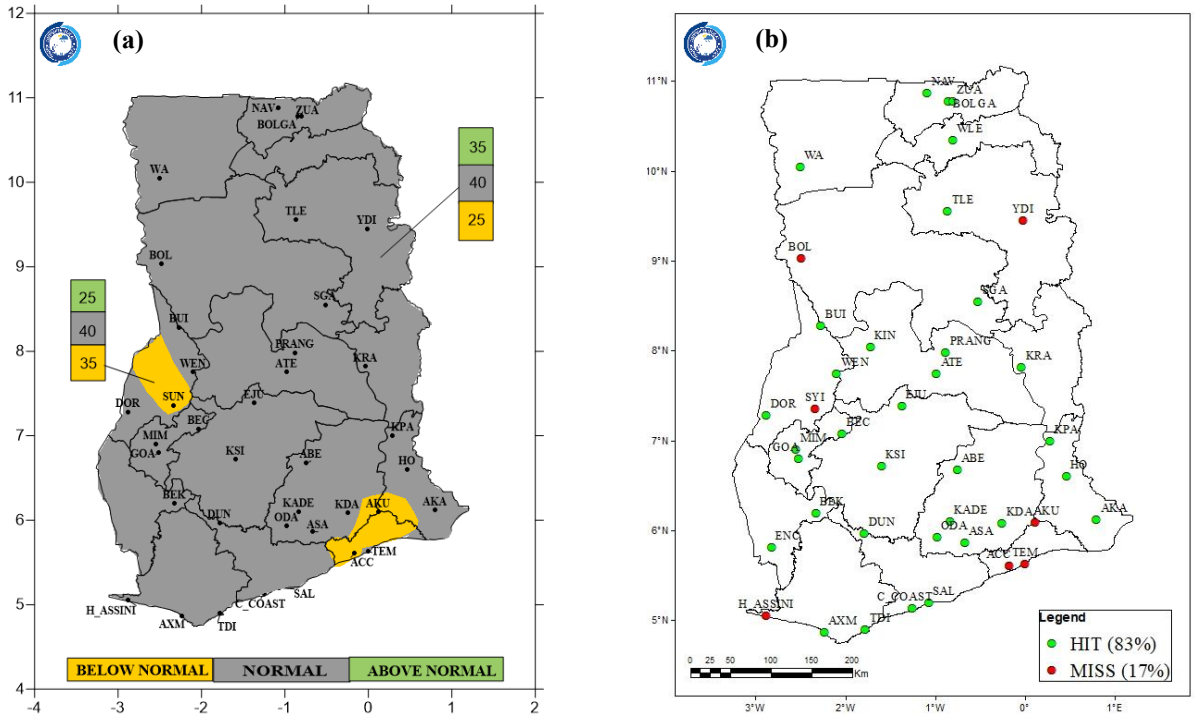

Figure 3. (a) Probabilistic rainfall forecast for June 2026. **(b)** Verification for June 2026 Rainfall Forecast

Figure 3(a) presents the probabilistic rainfall forecast for June 2026, showing the forecast probabilities (percentage chances) of rainfall occurring in the Above Normal, Near Normal, and Below Normal categories across the country. **Figure 3(b)** illustrates the results of the tercile-based categorical Hit–Miss verification of the June 2026 rainfall forecast. The verification indicates an overall Hit rate of 83% and a Miss rate of 17%, demonstrating that the forecast successfully captured the observed rainfall category at most stations across the country.