



MONTHLY RAINFALL ANALYSIS

DECEMBER 2025



GHANA METEOROLOGICAL AGENCY



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DECEMBER 2025 RAINFALL AMOUNT & FREQUENCY OVER GHANA

GMET/HYDRO/1225

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SUMMARY

December 2025 rainfall conditions across Ghana were generally above the climatological average, particularly in the southern parts of the country. Most locations recorded higher rainfall totals and increased rainfall frequency compared to the 1991 – 2020 climatological conditions. Positive rainfall anomalies were observed across much of the country, with particularly notable increases in parts of the northwestern, indicating wetter than normal conditions during the month.

Rainfall Amount Analysis for December 2025

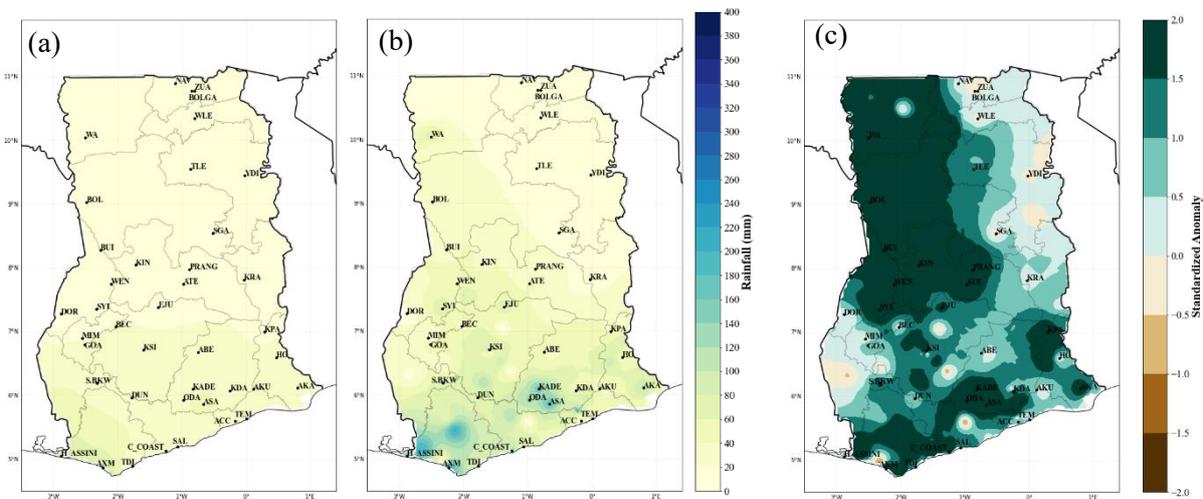


Figure 1. (a) December Rainfall Climatology (1991 – 2020), (b) December 2025 Rainfall, (c) December 2025 Rainfall Standardized Anomaly

Figure 1 illustrates the spatial distribution of rainfall across Ghana for December. Figure 1(a) presents the 1991 – 2020 climatological average, which shows that most areas in the southern part of the country typically receive rainfall amounts ranging from 30 – 90 mm, while most areas in the north record less than 10 mm. Figure 1(b) shows the observed rainfall for December 2025, indicating higher rainfall amounts (above 50 mm) across most parts of the southern zone. Notably, Axim, Elubo and Prestea recorded rainfall amounts of around 200 mm.

In the northern part of the country, rainfall amounts ranging from 10 – 40 mm were recorded in areas around Bui, Kintampo, Bole, Tamale and Tanina. **Figure 1(c)** presents the standardized rainfall anomaly for December 2025. The analysis reveals predominantly positive anomalies across most parts of the country, particularly over the western areas of northern Ghana, indicating above normal rainfall conditions.

Rainfall Frequency Analysis for December 2025

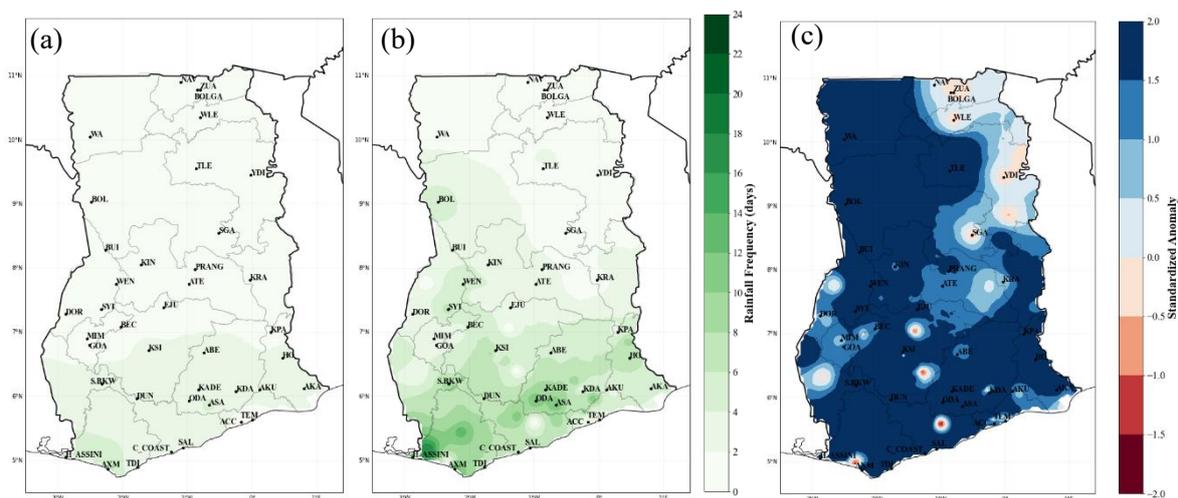


Figure 2. (a) December Rainfall Frequency Climatology (1991–2020), (b) December 2025 Rainfall Frequency, (c) Rainfall Frequency Anomaly for December 2025

Figure 2 presents the rainfall frequency distribution for December. **Figure 2(a)** shows the 1991–2020 climatological rainfall frequency, where most areas in the southern parts of the country typically record 2 – 4 rainy days, with Half Assini and Axim registering up to 6 rainy days. In contrast, rainfall frequency in the northern zone is generally 0 – 1 rainy day. **Figure 2(b)** illustrates the observed rainfall frequency for December 2025. Higher rainfall frequencies ranging from 3 – 9 rainy days were recorded across many areas in the southern zone. Notably, Axim, Elubo, Prestea, Akim Oda, Asamankese and surrounding areas recorded more than 10 rainy days. In the northern zone, most areas recorded 1 – 3 rainy days, although Bole experienced a relatively higher frequency of 5 rainy days. **Figure 2(c)** shows the standardized rainfall frequency anomaly, which indicates that positive anomalies dominated most parts of the country. However, some areas recorded negative anomalies, particularly Salaga, Walewale, Tamale, Yendi, Bolgatanga, Navrongo and Zuarungu in the north, as well as a few isolated locations in the south.