FEBRUARY 2026

CLIMATE BULLETIN

DEKAD 3, FEBRUARY (21-28)

GMET/CLIMATE/030226 FORM337

2/1/2026

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SUMMARY

- **Rainfall:**
  - Most areas received high rainfall (>20.0 mm).
  - Akim Oda received the highest rainfall of 76.5 mm
  - The northern sector reported less or no rainfall.
  - Forest zone: Highest rainy days (5 days).
  - Transition area to northern parts: Least or no rainy days (1 day).
- **Rainfall Anomalies:**
  - Deficit rainfall across most regions in transition and north.
  - Surplus rainfall in specific areas – forested areas and coastline.
- **Temperatures:**
  - **Maximum:**
    - Elevated in Northern and Transition zones.
    - The maximum of the Maximum temperature of 39.1°C was recorded in Tamale.
    - Relatively cooler temperatures along the coast and in select forested areas.
  - **Minimum:**
    - Warmer in Northeastern regions, Transitional zone, and Coastal areas.
    - Cooler in Transition areas and certain forested areas.
    - The minimum of the Minimum temperature was recorded in Bole in the Forest zone, reaching 21.5°C.

OBSERVED CLIMATE DRIVERS

INTERTROPICAL FRONT

Also known as the Intertropical Convergence Zone (ITCZ) is a critical meteorological feature that significantly influences weather patterns in West Africa, including Ghana. The ITF is a boundary zone where the warm, moist air from the Atlantic Ocean (southwesterly monsoon winds) meets the hot, dry air from the Sahara Desert (northeasterly Harmattan winds). This convergence leads to the formation of clouds and precipitation, making it a key driver of the rainy season in West Africa. The northward movement of the ITF during March-July brings the rainy season to Ghana.

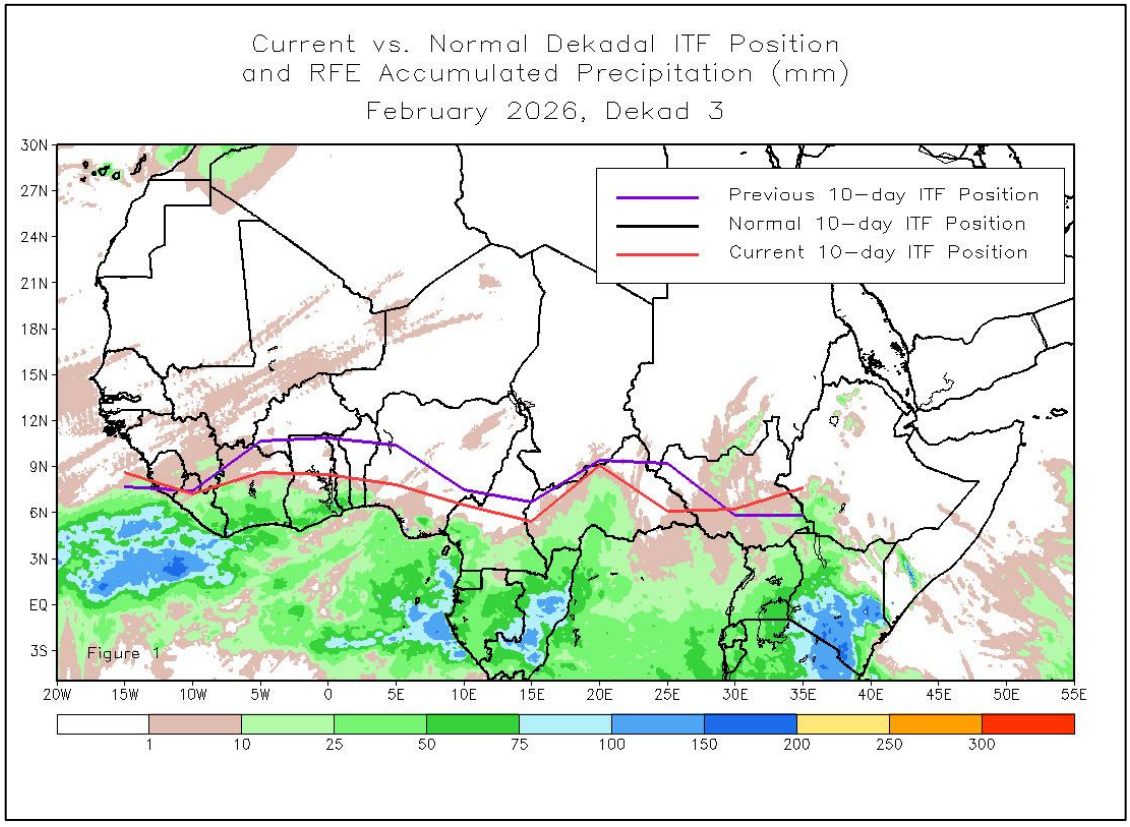

Figure 1. Current ITF position for February 3rd Dekad, 2026

Between February 21 and 28, the current Inter-Tropical Front (ITF) moved southward compared to its previous location. Specifically, the current ITF was located at approximately 8.5N in the northern sector of the country which is south of its previous position at 10.9N. *Figure 1* displays the current position of the ITF during the *3rd* dekad of February and its previous position during the 2nd dekad of February. Similarly, *Table 1* below also shows the evolving ITF's position of Ghana, located between 5W and 5E.

DEKAD	5W	0	5E
January 1	10.7	9.0	6.6
January 2	6.4	6.6	9.4
January 3	6.5	6.5	7.6
February 1	9.3	10.2	9.6
February 2	10.7	10.9	10.4
February 3	8.6	8.5	7.8

Table 1. Dekadal evolution of the ITF position over Ghana 2026.

MADDEN-JULIAN OSCILLATION (MJO)

MJO is a tropical disturbance that moves eastward around the globe, influencing weather patterns, including rainfall and temperature, in various regions. The MJO has phases (1-8), with each phase corresponding to its location over the tropics. Its position and strength can have significant implications for weather in Ghana, particularly during the West African monsoon season.

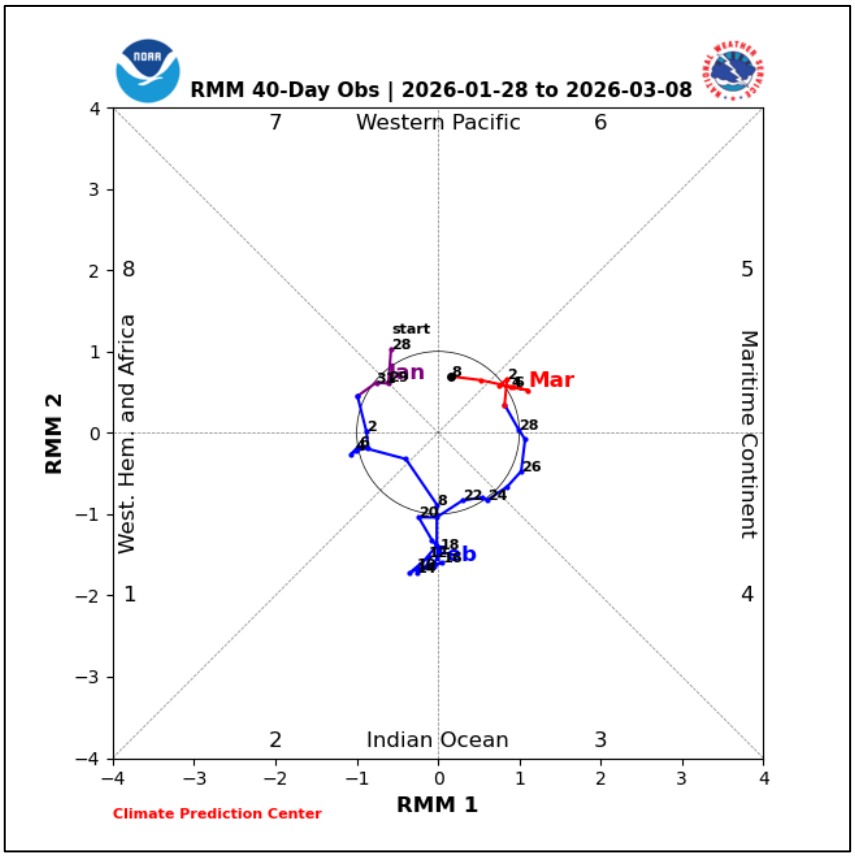

Figure 2. Current MJO position as of February 3rd Dekad, 2026

From *figure 2*, the MJO was primarily in phase 2 (Indian ocean) transitioning toward phase 3 (Maritime Continent. This phase suppressed convection activities over West Africa with reduced rainfall probability, where the MJO's signal is weak (i.e. closer to the unit circle).

1.0 RAINFALL AND TEMPERATURE DISTRIBUTION

1.1 RAINFALL

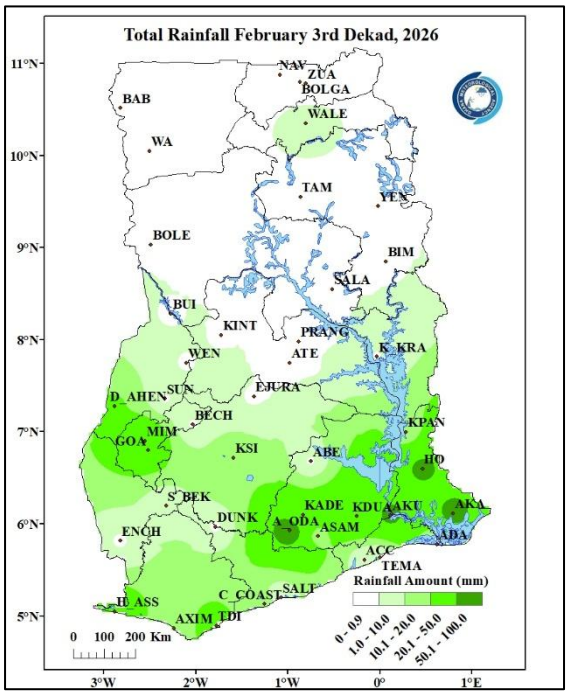

Figure 3a: Total Rainfall February 3rd Dekad, 2026

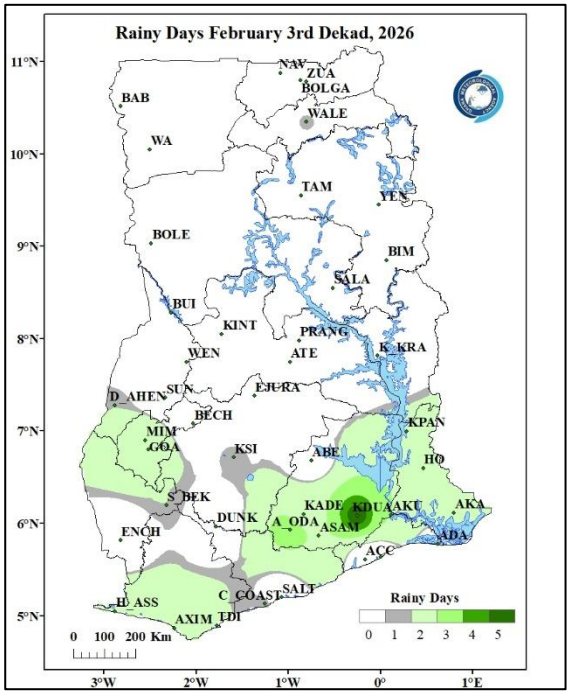

Figure 3b: Rainy Days February 3rd Dekad, 2026

Figure 3a illustrates the rainfall distribution across Ghana during the third eight-day period of February. The Southern station Akim Oda recorded the highest rainfall amount with a total of 76.5 mm. In contrast, some areas in the Northern region such as Salaga, Bolgatanga, Bole and Tamale experienced no rainfall during the period.

Figure 3b also illustrates the frequency of rainy days during the specified period. Almost all areas in the transition zone to the Northern sector did not record a rainy day, except for Walewale, which experienced 1 rainy day. The forested areas like Akim Oda and Koforidua saw up to 5 rainy days recorded.

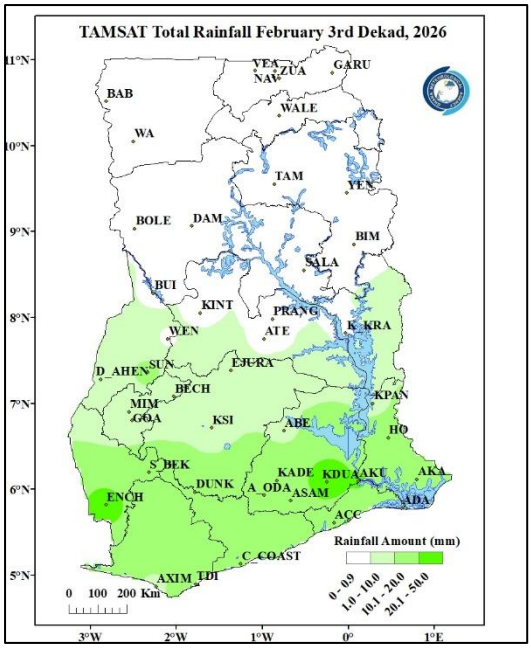

Figure 4. TAMSAT Total Rainfall February 3rd Dekad, 2026

Figure 4 presents the total rainfall derived from the TAMSAT rainfall estimate. The data indicates spatial consistencies, with rainfall amounts slightly underestimated in the southern sector.

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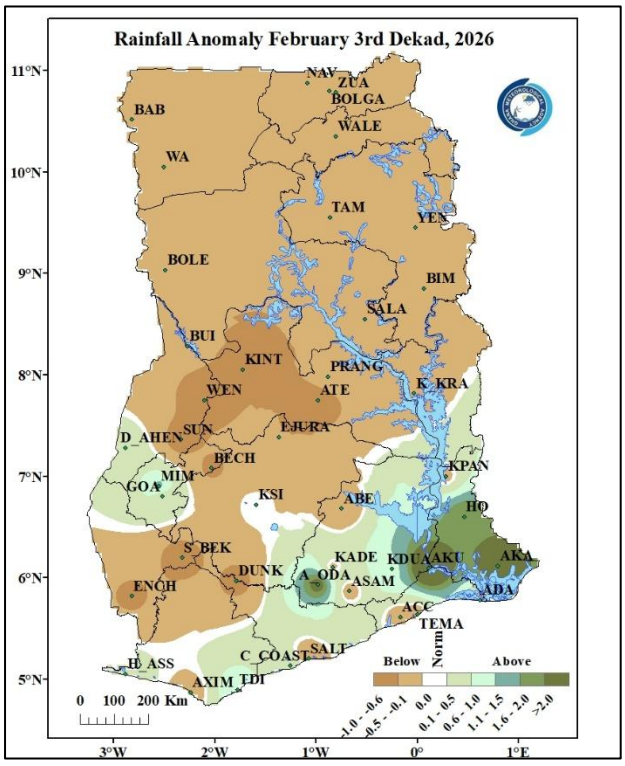


Figure 5: Rainfall Anomaly for February 3rd Dekad, 2026

Figure 5 also highlights areas with deviations from normal rainfall. Most areas from the forest to the northern sector of the country experienced below-normal rainfall (e.g. Ho, Enchi, Kade, Abetifi, and Salaga, Tamale, and Wa). However, some areas in the forest and coastal zones, Saltpond, Ho, Goaso Bechem, Takoradi, Kintampo experienced normal to above normal rainfall.

1.1 TEMPERATURE

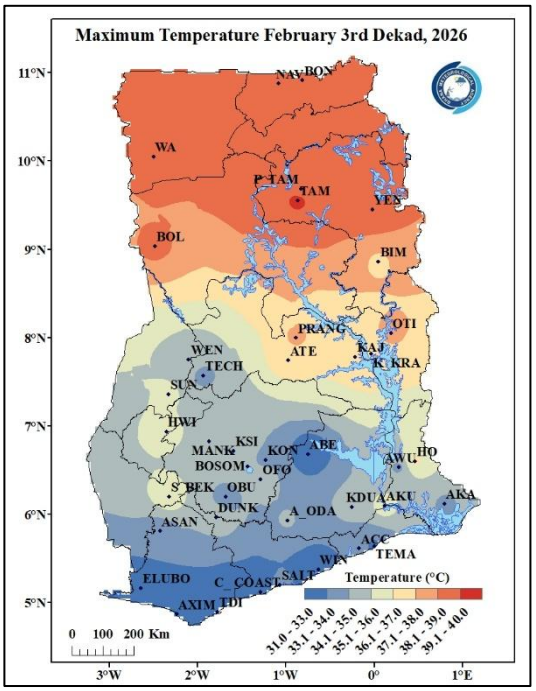


Figure 6a. Maximum Temperature February 3rd Dekad, 2026.

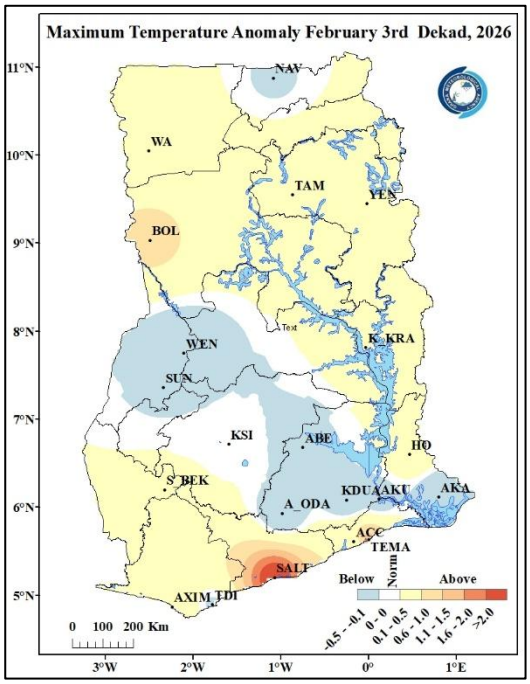


Figure 6b. Maximum Temperature Anomaly February 3rd Dekad, 2026.

Figure 6a displays the distribution of average daytime temperatures across the country. The northern belt recorded higher temperatures, ranging from 36.1°C to 40.0°C. The highest temperature of 39.1°C was recorded in Tamale, while the lowest temperature of 31.7°C was observed in Cape coast. In the transition zone, temperatures ranged between 34.1°C and 37.0.0°C. In contrast, the southern sector, including Abetifi, Accra, Saltpond, and Axim experienced relatively cooler temperatures ranging from 31.0°C to 36.0°C. Temperature were relative cooler during this dekad.

Maximum Temperature Anomaly is represented in *figure 6b* above. Areas spanning from the eastern portions of the forest, transition to the northern sector experienced normal to above-normal temperatures. However, in the Southern half, places like Kumasi, Akim Oda, Abetifi, and Akatsi experienced normal to below-normal temperatures during the period.

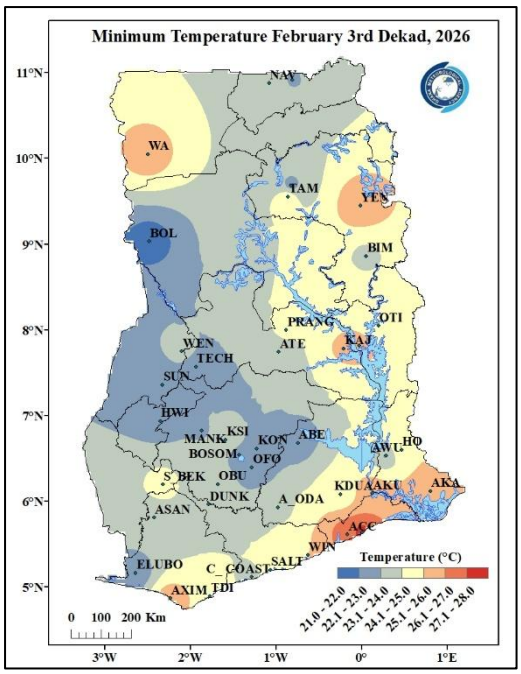


Figure 7a. Minimum Temperature February 3rd Dekad, 2026

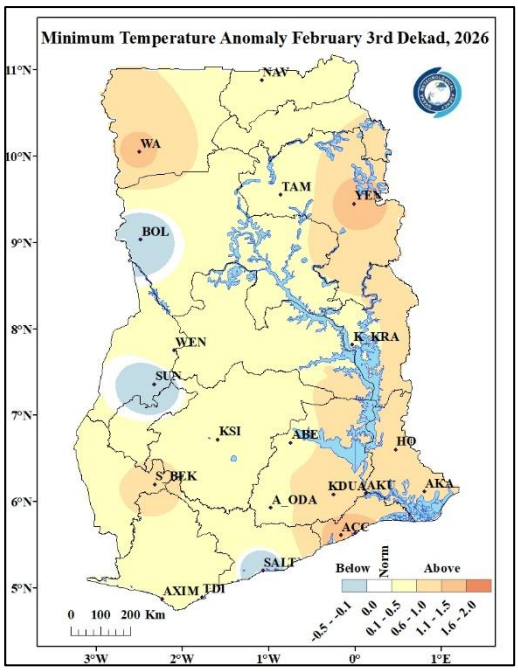


Figure 7b. Minimum Temperature Anomaly 3rd Dekad, 2026

In *Figure 7a*, the average nighttime temperatures varied across different regions. The eastern fringes of the country, including Yendi, Akatsi, Accra and Kete Krachi, experienced relatively warmer temperatures, with average values ranging from 24.1°C to 28.0°C. Similarly, along the coastal areas, including Axim, Takoradi, and Winneba, the average nighttime temperatures ranged from 23.1°C to 27.0°C. Some parts of the transition zone, such as Sunyani, and some areas in the north, like Bole, the average temperature values were between 21.1°C to 24.0°C. The lowest average nighttime temperature was recorded in Bole in the forest zone, reaching 21.5°C.

In *figure 7b*, we see the Minimum Temperature Anomaly. Except for Sunyani, Bole, Saltpond and its environs that experienced normal to below-normal nighttime temperatures, above-normal temperatures dominated the rest of the country indicating increased nighttime temperatures during the period.

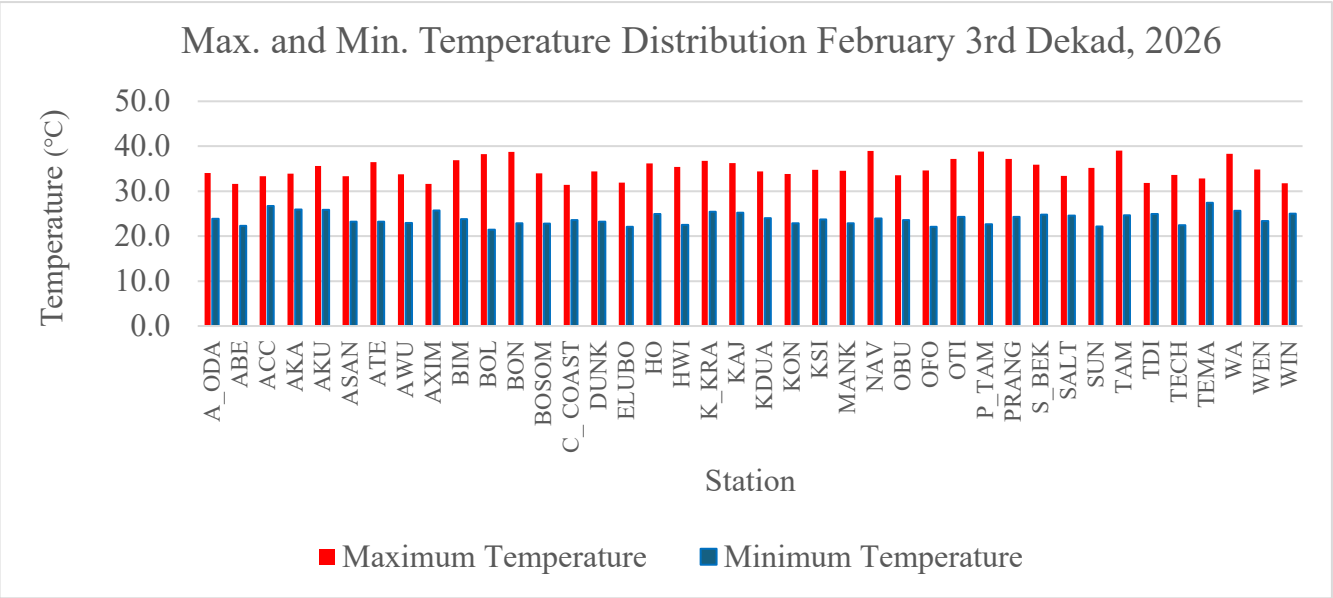
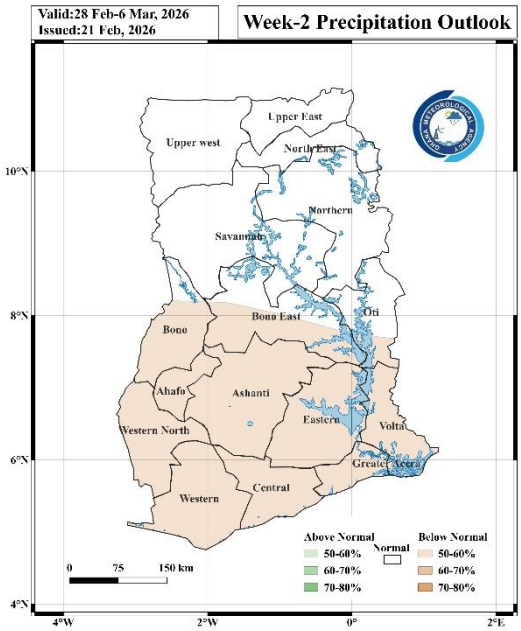
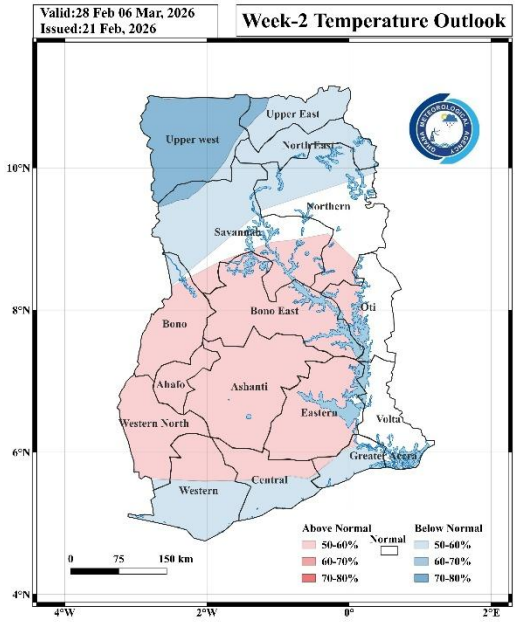


Figure 8. Max. and Min. Temperature Distribution for February 3rd Dekad, 2026

2.0 RAINFALL AND TEMPERATURE OUTLOOK 28TH FEBRUARY – 6TH MARCH 2026

For the coming week, rainfall is projected to be below-normal in the southern sector, including some areas in the transition zone. Temperatures are expected to increase to above-normal in the forested and transition areas, whiles the rest of the northern sector and the coastal strip will be normal to below-normal.





3.0 ADVISORIES

1. **Health Sector**
    - Increased temperatures may lead to dehydration and heat stress.
    - Be cautious of heat-related illnesses, especially for vulnerable groups (elderly, children, and those with chronic illnesses) due to high daytime temperatures particularly in the Northern belt.

2. **Water Resources Management Sector**
    - Conserve water and use it efficiently, especially in regions with little or no rainfall (Northern sector).

3. **General Public**
    - Normal to Above-Normal Temperatures (Nationwide). The public should limit outdoor activities during peak heat hours (11 am to 4 pm).
    - The use of fans or air conditioning where available to stay cool
    - Stay hydrated, avoid prolonged sun exposure, and wear light clothing.
    - Stay updated on weather forecasts from the Ghana Meteorological Agency.

4.0 APPENDIX

4.1 TABLE OF STATIONS

STATIONS	Abrevation	STATIONS	Abrevation	STATIONS	Abrevation
Abetifi	ABE	Bui	BUI	Salaga	SALA
Accra	ACC	Cape Coast	C. COAST	Saltpond	SALT
Ada	ADA	Damongo	DAM	Sefwi Bekwai	S. BEK
Agona Kwanyako	AG. KWA	Dorma Ahenkro	D. AHEN	Sefwi Wiawso	S. WIAW
Agona Swedro	AG. SWE	Duayaw Nkwanta	D. NKWA	Sunyani	SUNY
Akatsi	AKA	Dunkwa	DUNK	Techiman	TECH
Akim Oda	AK. ODA	Goaso	GOA	Tafo	TAFO
Akropong Akwapim	A. Akwap	Ho	HO	Takoradi	TADI
Akuse	AKU	Kade	KADE	Tamale	TAMA
Asamankese	ASAM	Kete Krachi	K. KRA	Tarkwa	TARK
Asankragwa	ASANK	Kintampo	KINT	Tema	TEMA
Atebubu	ATE	Koforidua	KOF	Twifo Praso	T. PRA
Atieku	ATIEKU	Kpando	KPAN	Vea Dam	VEA
Axim	AXIM	Kumasi	KSI	Wa	WA
Babile	BABILE	Manga Bawku	M. BAWKU	Walewale	WALE
Bechem	BECH	Mim	MIM	Wamfie	WAMF
Bibiani	BIB	Navrongo	NAV	Wassaw Akropong	W. AKR
Bimbila	BIMB	Nsoatre	NSOA	Wenchi	WEN
Bole	BOLE	Obuasi	OBUASI	Winneba	WINN
Bolgatanga	BOLGA	Pong Tamale	P. TAM	Yendi	YEN
Bompata	BOMPA	Prang	PRANG	Zuarungu	ZUA
Breman Asikuma	B. ASIK				

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