



South Sudan Meteorological Services

Weekly Rainfall and Temperature Outlook Monitoring and Forecast

Highlights

Last week's weather review: 22 -29 August 2026

- **During the past week**, most parts of South Sudan were in wet conditions.
- **Heavy rainfall**, more than 70 mm was observed most counties in Southern and Northern parts of South Sudan.

Forecast for 02 to 09 September 2026

- **Heavy rainfall** amount more than 100 mm are forecast over counties in Raja in Western Bahr el Gazal State.
- **Heat Stress Index Forecast**, indicates that Extreme Caution levels are expected during the period 02–09 September 2026, affecting most parts of South Sudan
- Stronger **winds** of up to **09 m/s** over most parts of Eastern Equatoria, and Pibor Administrative Area.

Recent Rainfall and Temperature Observations

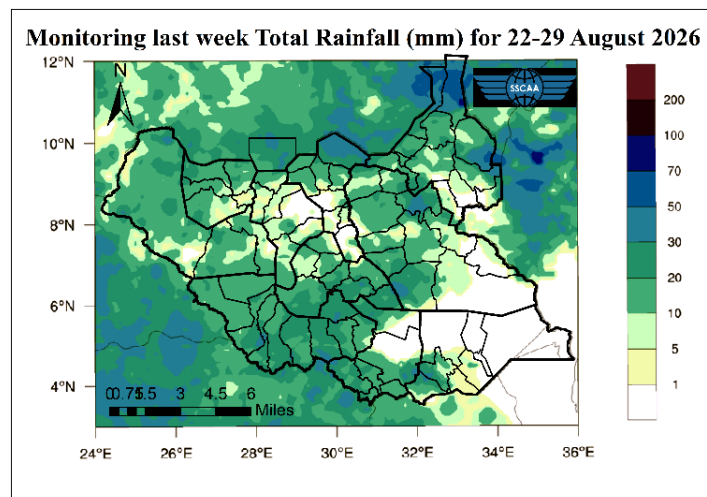


Figure 1: Past week ARC2 Estimated Rainfall(mm)

Monitoring last week's Satellite & Gauge Estimated Rainfall (mm) for 22 -29 August 2026

Over the past week, most parts of South Sudan experienced rainfall.

Indicates accumulations of highest rainfall more than 70 mm over Southeastern Juba, Northwestern parts of Yei in Central Equatoria State, South parts of Mvolo, Southern Maridi, central parts of Anzara, eastern parts of Ezo in Western Equatoria State, Northern parts of Raja in WBGs, some parts of Abyei Administrative Area, most part of Parinag in Rawang Administrative Area, Manyo El Renk & Southern Maban Counties in Upper Nile State, and central of Nyirol, western parts of Bor South in Jonglei State. Moderate rainfall between 20 and 70 mm is concentrated in most parts' country, while less than 20 mm is concentrated in most parts' Kapoeta East in Eastern Equatorial State. Using ARC2 Estimated Rainfall scripts.



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Rainfall Forecast for 02 to 09 September 2026

The forecast for this week (02 to 09 September 2026) indicates Heavy rainfall of more than 200 mm over, Central parts of Raja County in Western Bahr el Gazal State. Moderate rainfall of about 100-200 mm is expected over Maridi, Ibba, Yambio, Anzara, Ezo counties in Western Equatoria State, most parts Raja, some part of Wau in Western Bahr el Gazal State, some part of Northern Bahr el Gazal State and some parts of Upper Nile State.

Light rainfall (less than 50 mm) is expected over most parts of South Sudan.

In terms of rainfall anomalies, the usual wet-season conditions are expected over Southern parts of Western Equatoria State, and Southern parts of Raja in Western Bahr el Gazal State. However, rainfall anomalies, the usual day-season conditions are expected across South Sudan.

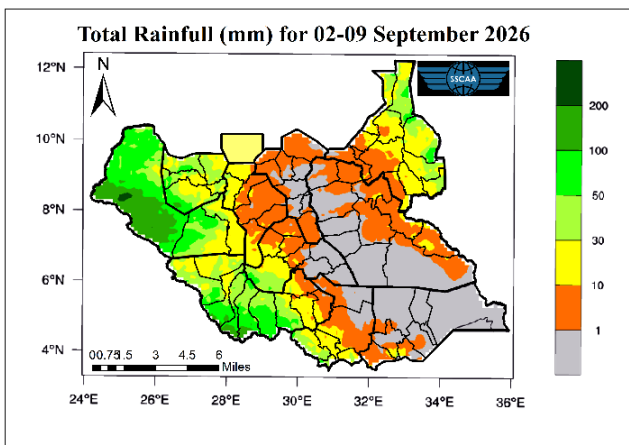


Figure 2a: Total rainfall(mm) forecast for 02-09 Sep. 2026

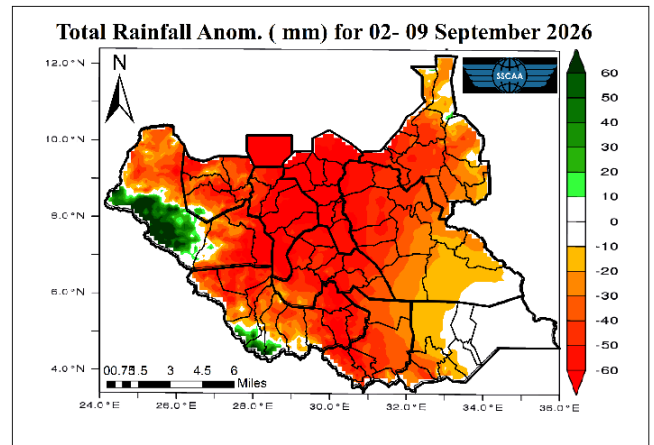


Figure 2b: Rainfall anomalies for 02-09 Sep. 2026

Mean Temperature Forecast for 02 to 09 September 2026

The forecast for this week (02 to 09 September 2026) indicates that average temperatures are more than 28 °C in most parts of South Sudan. However, that average temperature is less than 28 °C Kapoeta East & South, Budi, Ikotos, Torit, and Magwi Counties in Eastern Equatorial, most parts of Kajo-Kajo, Western parts of Juba, Lainya, Yei, Morobo counties in Central Equatorial State, most counties in Western Equatorial State, and Raja County in Western Bahr el Gazal State.

According to Figure 3b for Temperature Anomalies, warmer-than-usual temperatures are expected across South Sudan this week (02 to 09 September 2026).



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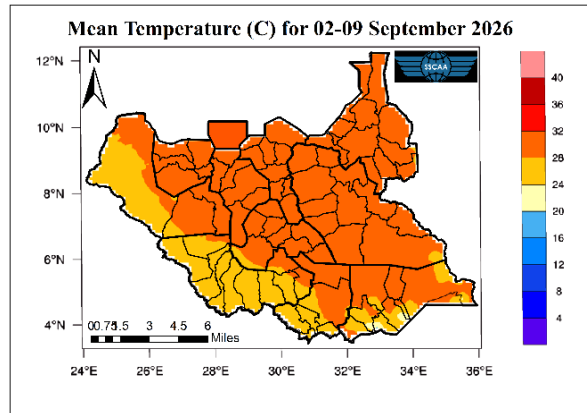


Figure 3a: Mean Temperature (°C) forecast 02-09/9/2026

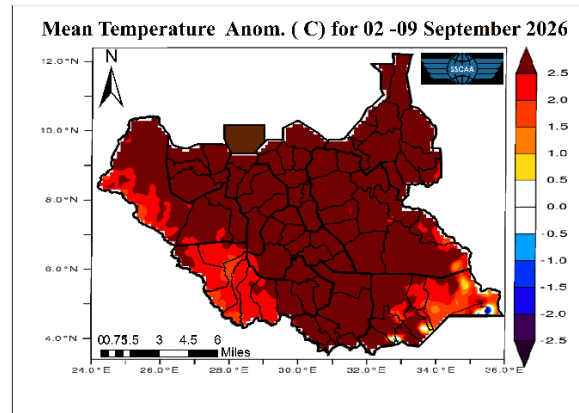


Figure 3b: Temp. Anomalies (°C) forecast 02-09/9/2026

Wind (Direction and Speed) Forecast for 02 to 09 September 2026

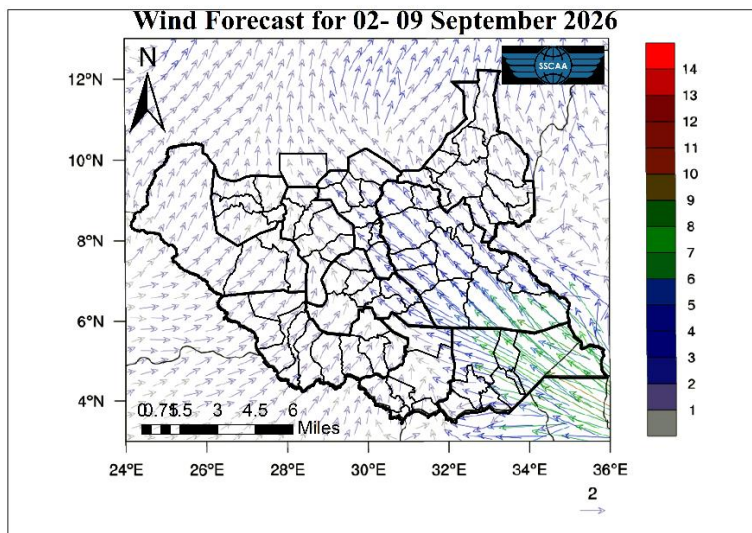


Figure 4: Wind (Direction & Speed) forecast 02-09/9/2026

The forecast for this week (02 to 09 September 2026) is expected to experience predominantly light to moderate southwesterly winds (2–4m/s), with relatively stronger winds of up to 09 m/s over most parts of Eastern Equatoria State. And Pibor Administrative Area. These winds are expected to enhance moisture transport into the country, supporting rainfall activity across many areas, while localized stronger gusts may occur in association with thunderstorms.

Heat Stress Index Forecast for 02 to 09 September 2026

According to the Heat Stress index, we have three levels of head wave (Caution, Extreme Caution and Danger)

Alerts: The above Heat Stress Index image indicates that Extreme Caution levels are expected during the period 2–9 September 2026, affecting most parts of South Sudan. These conditions may occur on several days throughout the forecast period, depending on the location.



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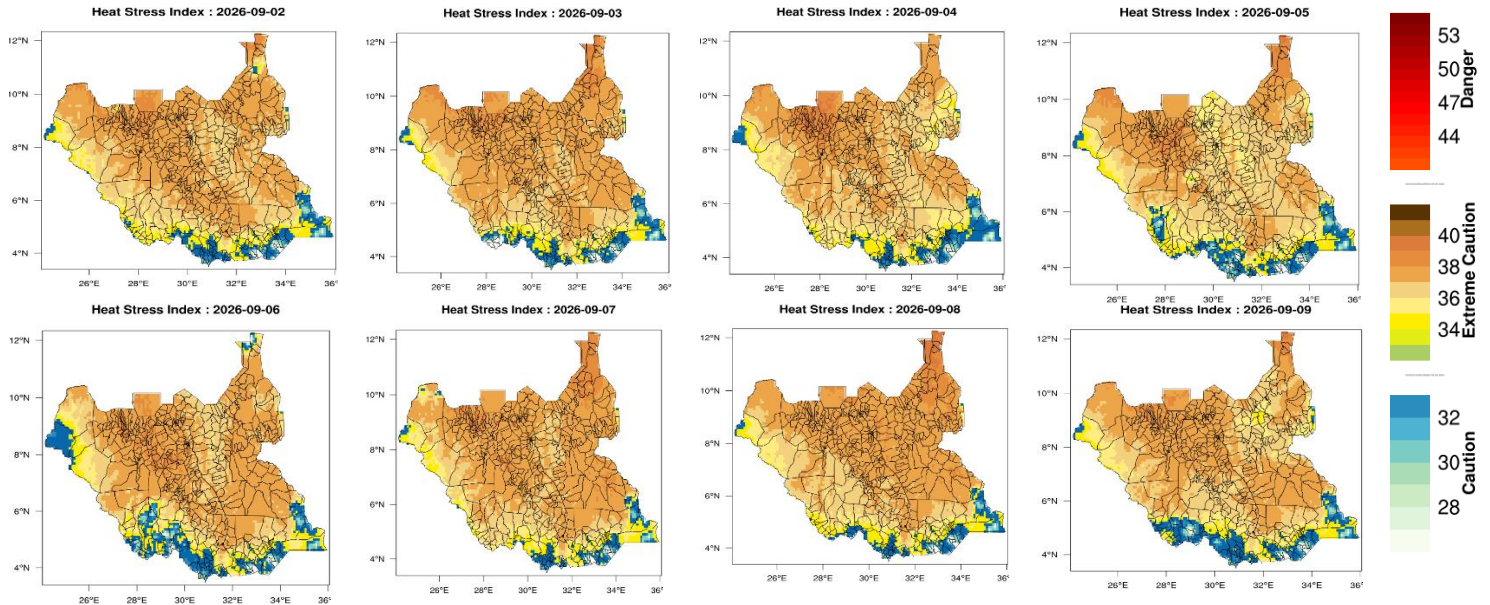


Figure 5: Heat Stress Index forecast for 02 to 09 September 2026

Thus, it is recommended that the general population adopt the following safety measures:

- Reduced exposure is necessary, along with protective measures such as cooling systems and close monitoring of vulnerable groups, including children, the elderly, people with physical disabilities, and expectant mothers.
- The average temperature is expected to be warmer; as such, you are advised to stay indoors or under trees, carry your umbrella during daytime maximums and drink water frequently.
- Stay updated on meteorological service advisories, especially in regions expecting hotter, drier conditions.
- Monitor weekly forecast updates from meteorological services.

Notes

The South Sudan Meteorological Service's Weekly Rainfall and Temperature Outlook and Monitoring provide concise, timely weather predictions essential for immediate planning and operational decisions across vital sectors such as agriculture, transportation, and emergency services. This forecast provides a detailed outlook on temperature variations, rainfall probabilities, and any impending severe weather conditions, enabling stakeholders to mitigate risks, plan agricultural activities more effectively, and ensure the safety of transportation routes. The weekly forecast is critical to improving community readiness and economic stability by accelerating short-term decision-making.