



South Sudan Meteorological Services

Weekly Rainfall and Temperature Outlook Monitoring and Forecast

Highlights

Last week's weather review: 15-22 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 Western Equatoria State some parts in El Renk and Maban in Upper Nile State.

Forecast for 26 August- 02 Sept. 2026

- **Heavy rainfall** amount more than 100 mm are forecast over counties in Raja in Western Bahr el Gazal State.
- **Stronger winds** of up to **09 m/s** over most parts of Eastern Equatoria

Recent Rainfall and Temperature Observations

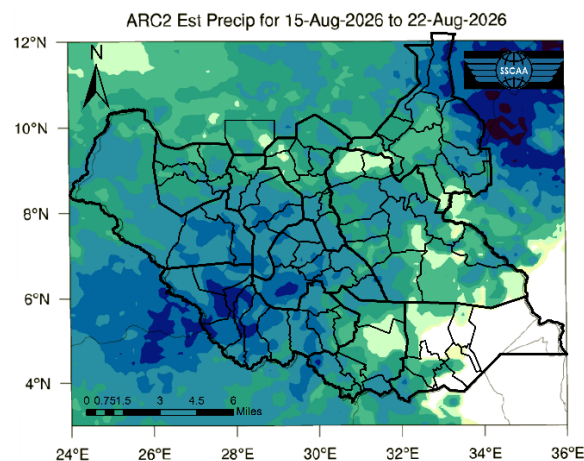


Figure 1: Past week ARC2 Estimated Rainfall(mm)

Monitoring last week's Satellite & Gauge Estimated Rainfall (mm) for 15 -22 August 2026

Indicates accumulations of highest rainfall more than 70 mm over Northwestern parts of Yei in Central Equatoria State, central of Wulu in Lake State, Central parts of Yambio, northern parts of Anzara, Northern parts of Ezo, Eastern part of Tambra, Southern parts of Nagero Counties in Western Equatoria State, and Eastern El Renk & Northeastern Maban Counties in Upper Nile 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.

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

Rainfall Forecast for 26 August to 02 September 2026

The forecast for this week (26 August- 02 September 2026) indicates Heavy rainfall of more than 100 mm over, Central and Southern parts of Raja County in Western Bahr el Gazal State. Moderate rainfall of about 50-100 mm is expected over most parts of Western Bahr el Gazal State and some parts of Western Equatorial State.

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



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

Total Rainfall (mm) for 26 August to 02 September 2026

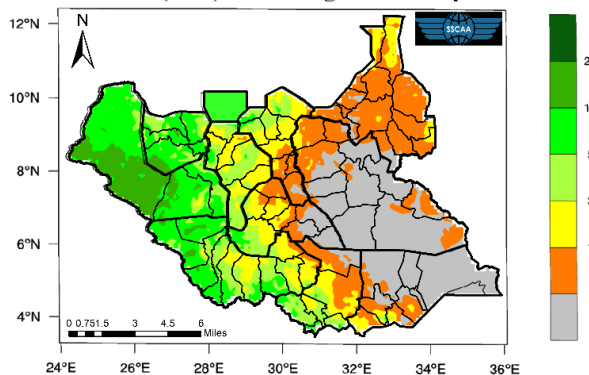


Figure 2a: Total rainfall(mm) forecast for 26 Aug- 02 Sep. 2026

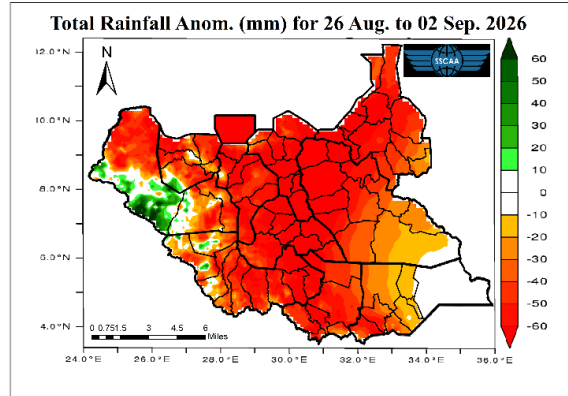


Figure 2b: Rainfall anomalies for 26 Aug-02 Sep. 2026

Mean Temperature Forecast for 26 August to 02 September 2026

The forecast for this week (26 August to 02 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, Southern parts of Lapon, and Magwi Counties in Eastern Equatorial, most parts of Juba, Kajo-Kajo, Lainya, Yei, Morobo counties in Central Equatorial State, most counties in Western Equatorial State, Wulu & Mvolo counties in Lake State, Wau & Raja counties in Western Bahr el Gazal State, and Aweil Centre County in Northern Bahr el Gazal State.

According to Figure 3b for Temperature Anomalies, warmer-than-usual temperatures are expected across South Sudan this week (26 August to 02 September 2026).

Mean Temperature (C) for 26 Aug to 02 Sep. 2026

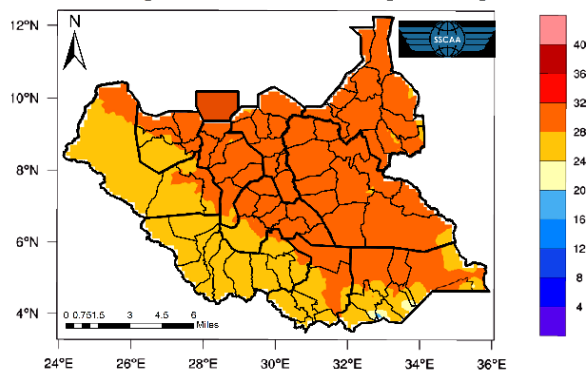


Figure 3a: Mean Temperature (°C) forecast 26/8-02/9/2026

Mean Temperature Anomalies (C) for 26 Aug. to 02 Sep. 2

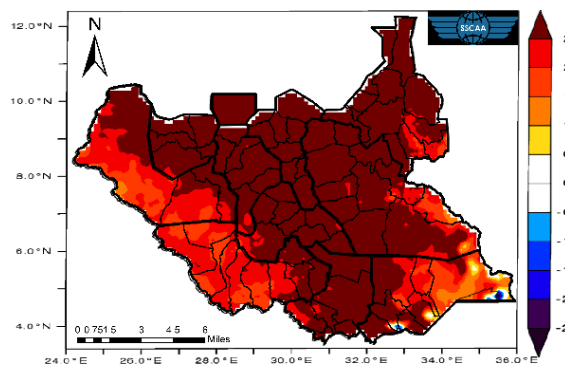


Figure 3b: Temp. Anomalies (°C) forecast 26/8-02/9/2026

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Wind (Direction and Speed) Forecast for 26 August to 02 September 2026

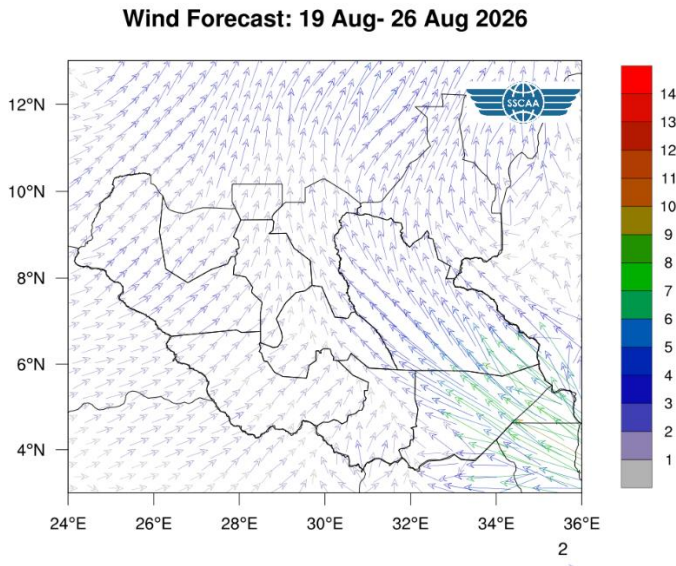


Figure 4: Wind (Direction & Speed) forecast 26/8-02/9/2026

The forecast for this week (26 August to 02 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. 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 26 August to 02 September 2026

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

The Legend is a light blue to blue colour representing Caution it indicates a moderate level of risk, which means there are potential risks ahead that you should be aware of or a warning to proceed with care and stay alert.

The second was Extreme Caution implies a higher level of risk compared with the first one (Caution), It suggests that the situation is more dangerous or precarious and requires heightened awareness and vigilance.

The last indicated by red colour was Danger, it is the most serious level of warning, indicating an imminent threat or hazard that poses a significant risk to safety or life. It signals that immediate action is necessary to avoid injury or harm.

Alerts: the above heat Stress index image for next week is expected to be the Extreme Caution level of warning, for certain days and locations as follows:

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On the 26, 27, 30, August and 01 & 02 September 2026, over Unity State, Abyei Administration Area, Warrap State, Northern Bahr el Gazal State and Upper Nile State.

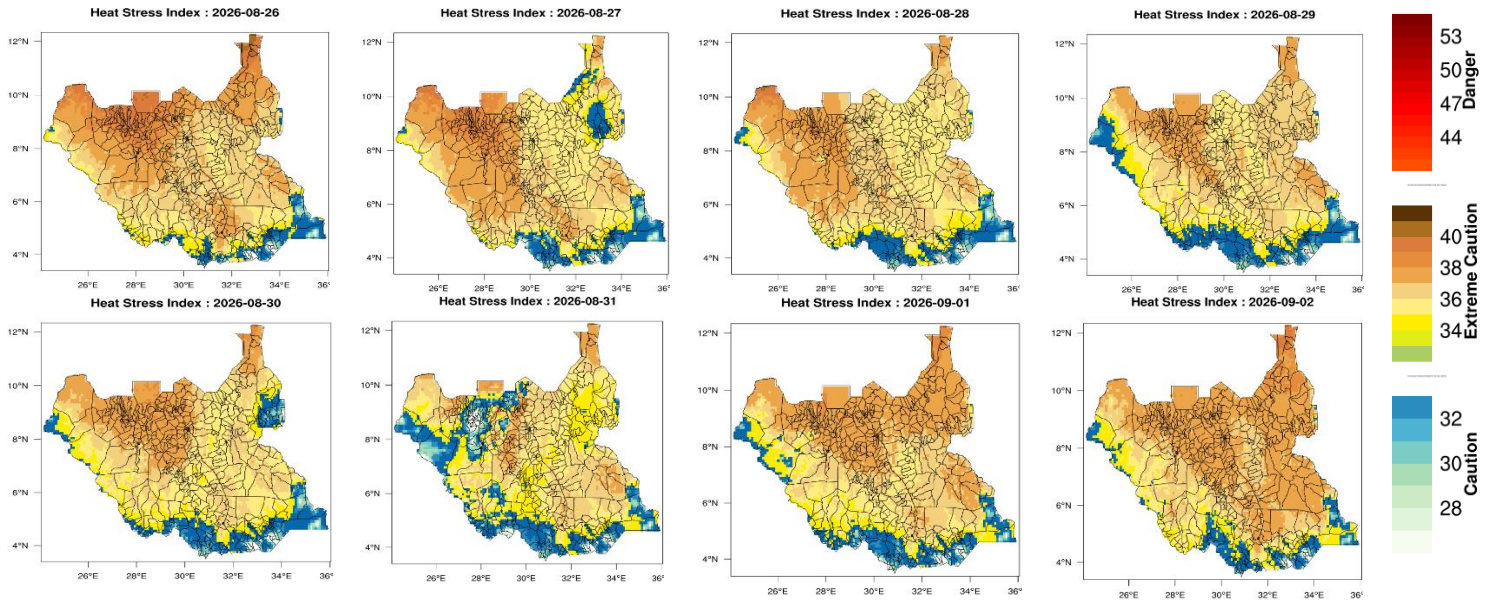


Figure 5: Heat Stress Index forecast for 26 August to 02 September 2026

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.

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