



South Sudan Meteorological Services

Weekly Rainfall and Temperature Outlook Monitoring and Forecast

Highlights

Last week's weather review: 29 August to 05 September 2026

- **During the past week**, most parts of South Sudan were in dry conditions.
- **Moderate rainfall**, more than 30 mm was observed most counties in Western parts of South Sudan.

Forecast for 09 to 16 September 2026

- **Moderate rainfall** amount more than 100 mm are forecast over counties in Ezo, Raja, Wau, Jur river, and Aweil counties.
- **Heat Stress Index Forecast**, indicates that Extreme Caution levels are expected during the period 09–16 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

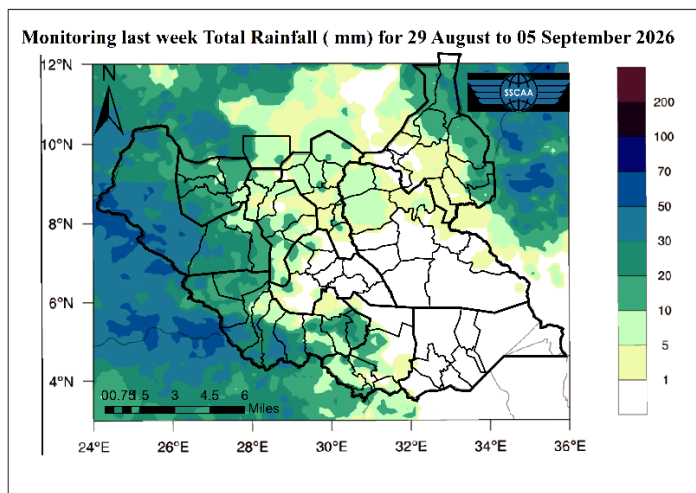


Figure 1: Past week ARC2 Estimated Rainfall(mm)

Monitoring last week's Satellite & Gauge Estimated Rainfall (mm) for 29 August to 05 September 2026

Over the past week, some parts of South Sudan experienced rainfall. Indicates accumulations of highest rainfall more than 30 mm over South parts of Yambio, central parts of Anzara, eastern parts of Ezo, and some parts of Tambura in Western Equatoria State, most parts of Raja in WBGs, and central parts El Renk county in Upper Nile State. Light rainfall less than 30mm is concentrated in most parts' country. Using ARC2 Estimated Rainfall scripts.

Rainfall Forecast for 09 to 16 September 2026

The forecast for this week (09 to 16 September 2026) indicates Moderate rainfall of about 100-200 mm is expected over Ezo counties in Western Equatoria State, most parts Raja, western part of Wau, and Southern parts of Jur river counties in Western Bahr el Gazal State, and southern part of Aweil center, southern parts of Aweil east in Northern Bahr el Gazal State.



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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 most parts of Raja, Wau and Jur river in Western Bahr el Gazal State, most parts of Northern Bahr el Gazal State, Abyei Administrative Area, and some parts of upper Nile State. However, rainfall anomalies, the usual day-season conditions are expected across South Sudan.

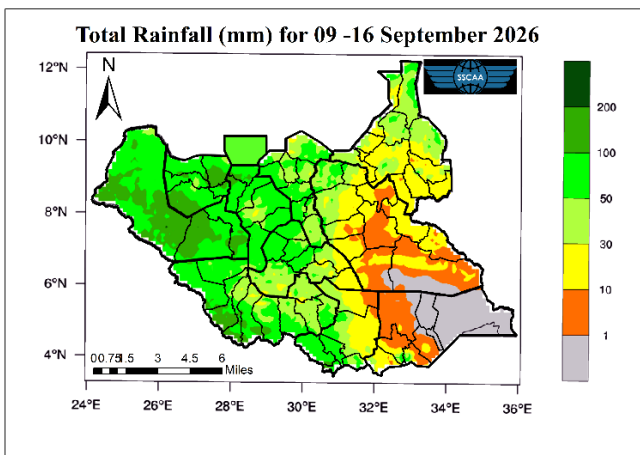


Figure 2a: Total rainfall(mm) forecast for 09 - 16 Sep. 2026

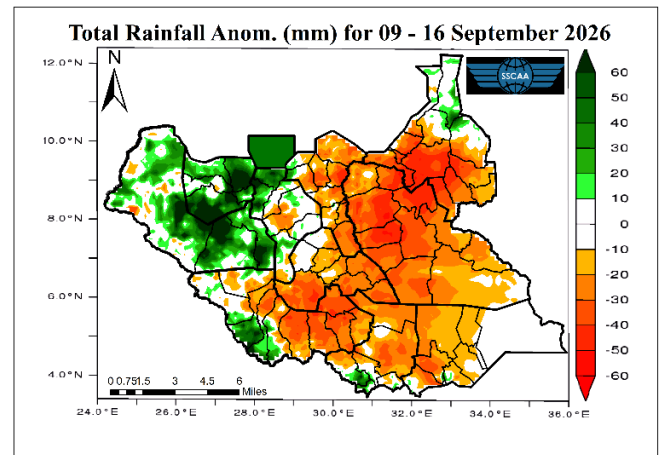


Figure 2b: Rainfall anomalies for 09- 16 Sep. 2026

Mean Temperature Forecast for 09 to 16 September 2026

The forecast for this week (09 to 16 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 in southeastern parts of Pibor Administrative Area, Northern parts of Kapoeta East & South, Budi, Ikotos, Torit, and Magwi Counties in Eastern Equatorial, Kajo-Kajo, most parts of Juba, Lainya, Yei, Morobo counties in Central Equatorial State, most counties in Western Equatorial State, most counties in Western Bahr el Gazal State, most counties in Northern Bahr el Gazal, most counties in Warrap, some parts in Northern Jonglei State, and Maban county in Upper Nile State.

According to Figure 3b for Temperature Anomalies, warmer-than-usual temperatures are expected across South Sudan this week (09 to 16 September 2026).



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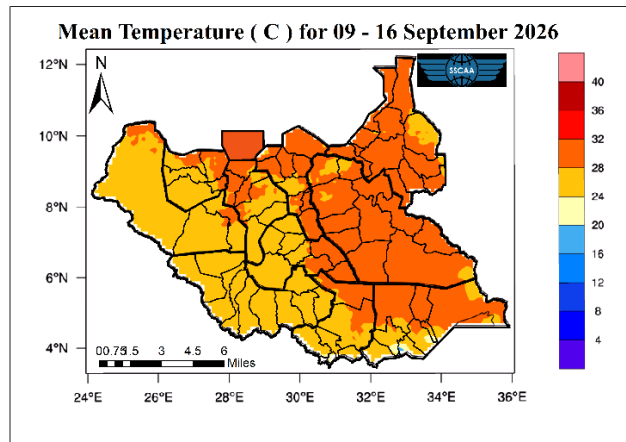


Figure 3a: Mean Temperature (°C) forecast 09-16/9/2026

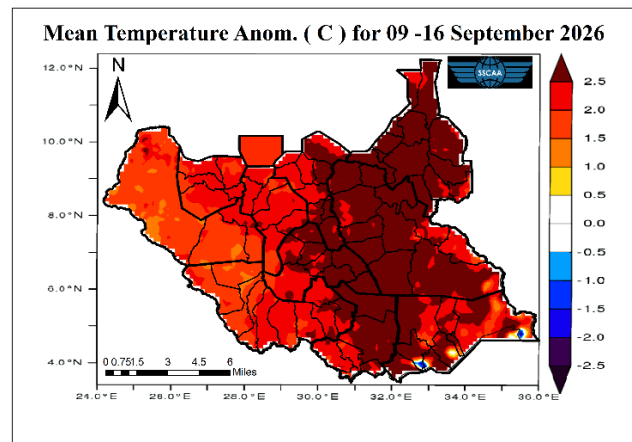


Figure 3b: Temp. Anomalies (°C) forecast 09-16/9/2026

Wind (Direction and Speed) Forecast for 09 to 16 September 2026

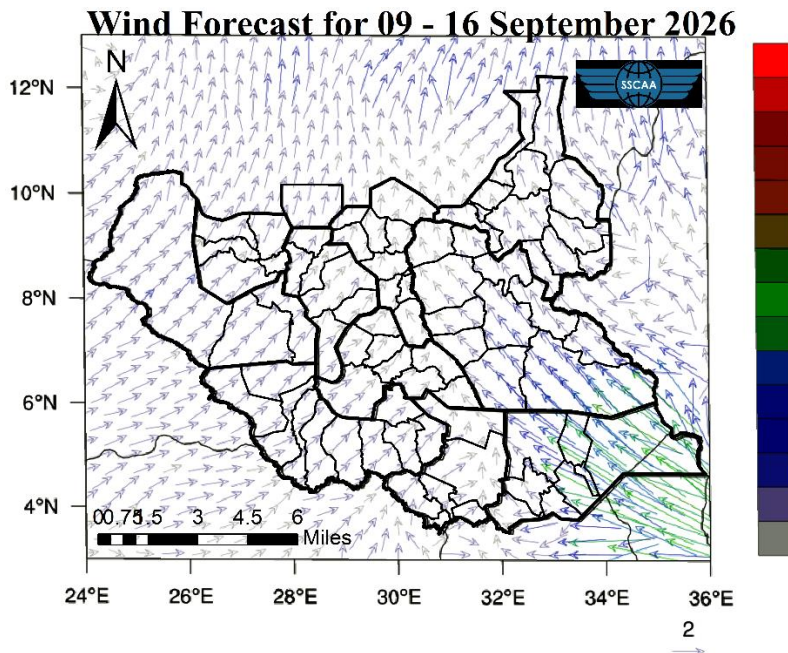


Figure 4: Wind (Direction & Speed) forecast 09-16/9/2026

The forecast for this week (09 to 16 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 09 to 16 September 2026

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

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Alerts: The above Heat Stress Index image indicates that Extreme Caution levels are expected during the period 09–16 September 2026, affecting most parts of South Sudan. These conditions may occur on several days throughout the forecast period, depending on the location.

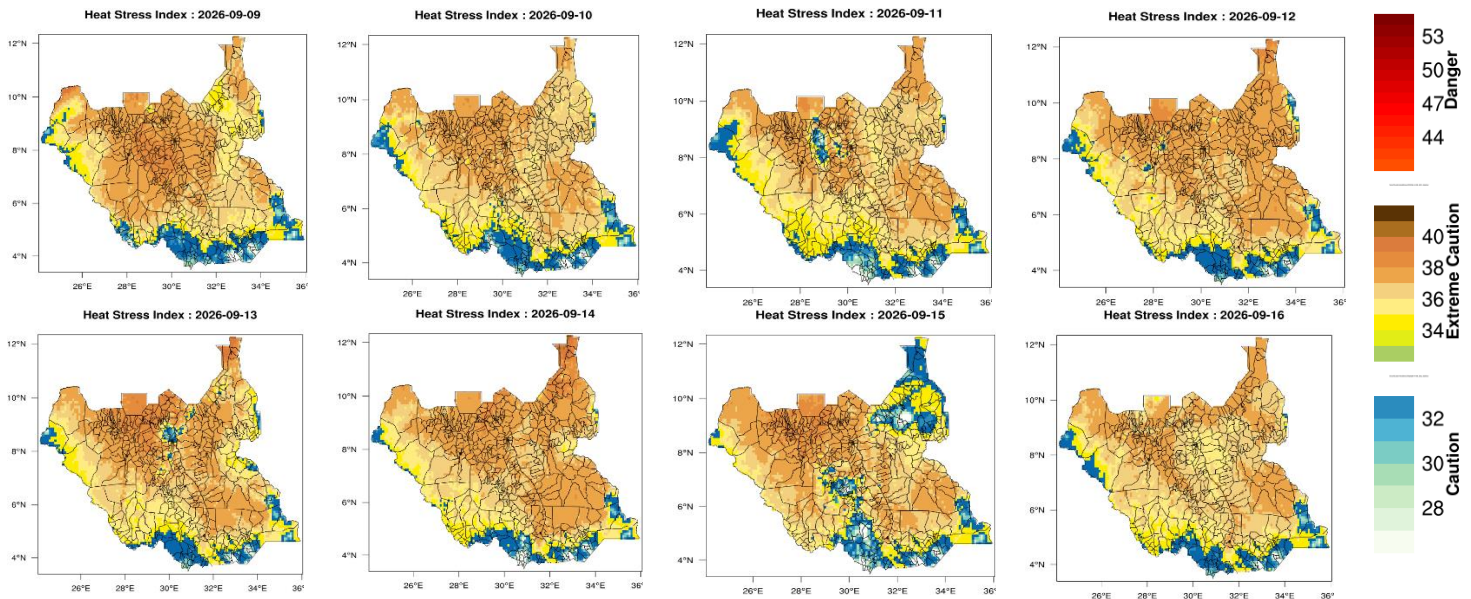


Figure 5: Heat Stress Index forecast for 09 to 16 September 2026

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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