



South Sudan Meteorological Services

Weekly Rainfall and Temperature Outlook Monitoring and Forecast

Highlights

Last week's weather review:12 -19 July 2026	Forecast for 22 to 29 July 2026
• During the past week, most parts of South Sudan were in wet conditions. • Heavy rainfall, more than 70 mm was observed over (Yei), Western Equatoria State, Western Bahr el Gazal State, Western Northern Bhar el Gazal State, Abyei Administration Aera, Warrap State. And Some parts of Upper Nile	• Heavy rainfall amount more than 100 mm are forecast over Southern parts of Western Equatoria State, most parts of Lake State, some parts of Western Bahr el Gazal State, Northern Bahr el Gazal State, Warrap State. Abyei Administrative Area, Unity State, Northern parts of Upper Nile State, and Northern parts of Jonglei.

Recent Rainfall and Temperature Observations

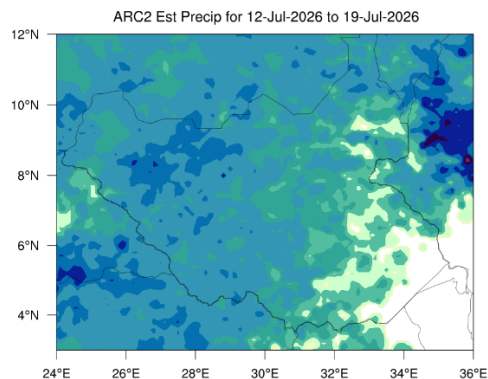


Figure 1: Past week ARC2 Estimated Rainfall(mm)

Monitoring last week's Satellite & Gauge Estimated Rainfall (mm) for 12 to 19 July 2026

Over the past week, most parts of South Sudan experienced rainfall. Indicates accumulations of moderate rainfall between 50 and 70 mm over Southern of Central Equatoria (Yei), Western Equatoria State, Western Bahr el Gazal State, Western Northern Bhar el Gazal State, Abyei Administration Aera, Warrap State. And Some parts of Upper Nile, while less than 50 mm is concentrated in most parts of the country. Using ARC2 Estimated Rainfall scripts.

Rainfall Forecast for 22 to 29 July 2026

The forecast for this week (22 to 29 July 2026) indicates Heavy rainfall of more than 100 mm over Southern parts of Western Equatorial State, most parts of Lake State, some parts of Western Bahr el Gazal State, Northern Bahr el Gazal State, Warrap State. Abyei Administrative Area, Unity State, Northern parts of Upper Nile State, and Northern parts of Jonglei State, Moderate rainfall of about 50-100 mm is expected over most parts of the Country. Light rainfall (less than 50 mm) is expected over most parts of Eastern Equatoria, Pibor Administration Area, and Sothern parts of Jonglei State.

In terms of rainfall anomalies, the usual wet-season conditions are expected across South Sudan, However, rainfall anomalies, usual dry-season conditions are expected over most parts of Eastern Equatoria, Pibor Administration Area, some parts of Jonglei State, most parts of Upper Nile State,

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Southern parts of Western Equatorial State, some parts of Western Equatorial State, and Central parts of Central Equatorial State.

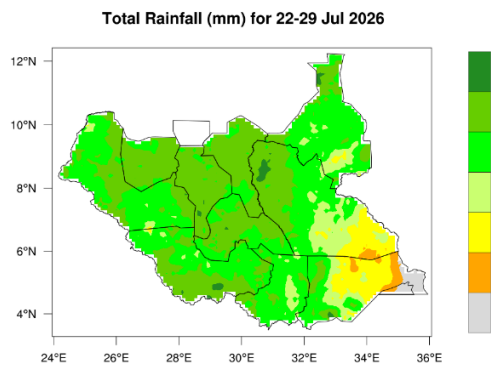


Figure 2a: Total rainfall(mm) forecast for 22 to 29 July 2026

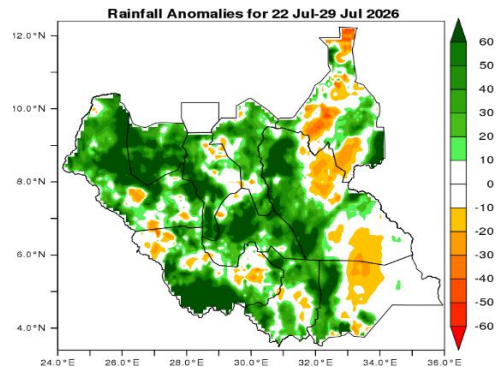


Figure 2b: Rainfall anomalies for 22 to 29 July 2026

Mean Temperature and Days with Heat Stress Forecast for 22 to 29 July 2026

The forecast for this week (22 to 29 July 2026) indicates that average temperatures are below 28 °C in most parts of South Sudan. However, that average temperature is more than 28 °C Kapoeta in Eastern Equatorial, Pibor Administration Area, and Northern Raja in Western Bahr el Gazal State.

According to Figure 3b for Temperature Anomalies, warmer-than-usual temperatures are expected across South Sudan this week (22 to 29 July 2026).

Based on the heat index in Figure 3c, forecasts indicate how many days each week the heat index falls into the extreme caution category. Show that over Western parts of Northern Bahr el Gazal State, Abyei Administration Area, Northern parts of Unity State, and some parts of Upper Nile State, experienced elevated temperatures of 36°C, which will cause heat stress, with up to 1-2 days of heat stress from 22 to 29 July 2026.

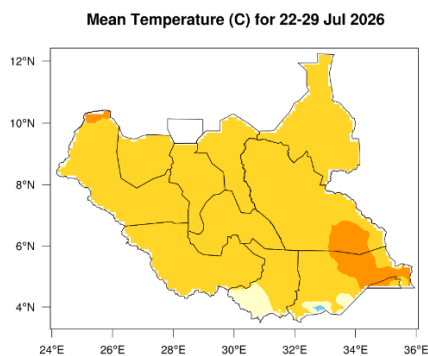


Figure 3a: Mean Temperature (°C) forecast for 22-29 July 2026

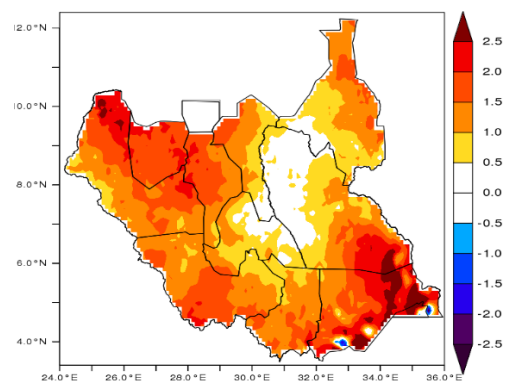


Figure 3b: Temp. Anomalies (°C) forecast for 22-29 July 2026

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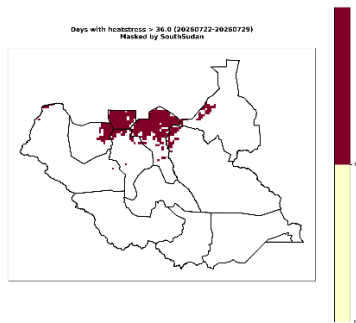
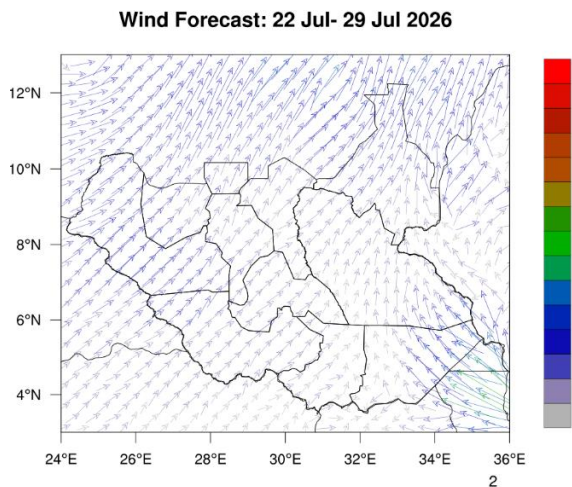


Figure3b: Day with Heat Stress Index forecast for 22 - 29 July 2026

Wind (Direction and Speed) Forecast for 22 to 29 July 2026



The forecast for this week (22 to 29 July 2026) is expected to experience predominantly light to moderate southwesterly winds (2–6 m/s), with relatively stronger winds of up to 10 m/s over parts of Eastern Equatoria. 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.

Figure 4: Wind (Direction & Speed) forecast for 22 to 29 July 2026

Heat Stress Index Forecast for 22 to 29 July 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 is 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. For more information, please get in touch with Emmanuel Qurino: equirino@yahoo.com, mobile no.: +211928812746, Aciek Thukul: aciekthukul100@gmail.com, mobile no: +211927296190, or visit our office at South Sudan Civil Aviation Headquarters



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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.

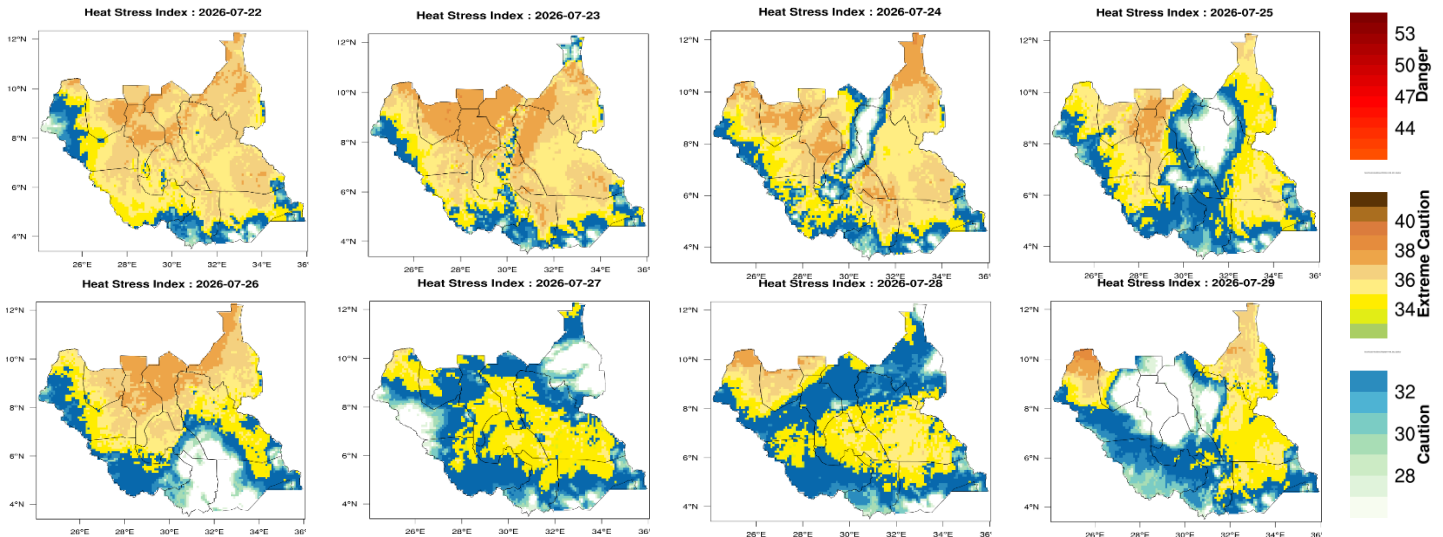


Figure 5: Heat Stress Index forecast for 22 to 29 July 2026

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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