



South Sudan Meteorological Services

Weekly Rainfall and Temperature Outlook Monitoring and Forecast

Highlights

Last week's weather review: 03 to 10 May 2026

- **During the past week**, most parts of South Sudan were in wet conditions.
- **Heavy rainfall**, more than 70 mm was observed over of Western Equatorial State, Central Equatorial, Eastern Equatorial, and Pibor Administration Area.

Forecast for 27 May to 03 June 2026

- **Heavy rainfall** (more than 100 mm) over most parts of the Western and Central Equatoria.
- **The Heat Stress Index** on 31st May and 01st June 2026 is expected to reach the most serious warning level, with temperatures exceeding 40 °C, necessitating immediate action over Northern states of South Sudan.

Recent Rainfall and Temperature Observations

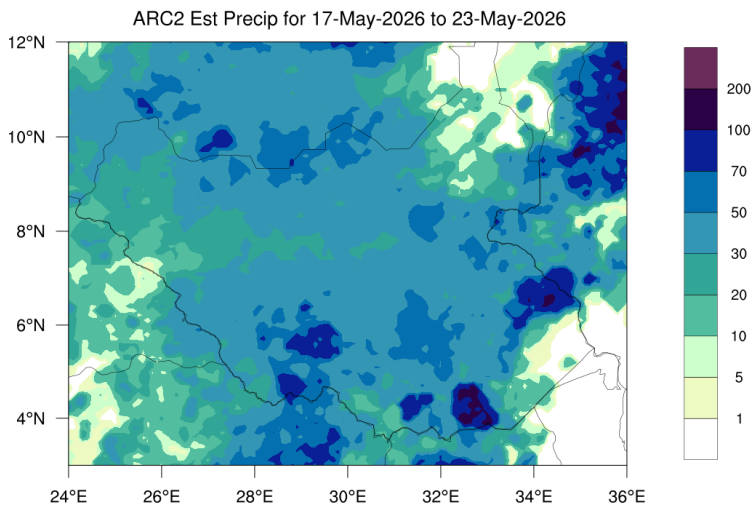


Figure 1: Past week ARC2 Estimated Rainfall(mm)

Monitoring last week's Satellite & Gauge Estimated Rainfall (mm) for 27 May to 03 2026

Over the past week, most parts of South Sudan experienced rainfall. Indicates accumulations **Havey rainfall** between (**70 and 100 mm**) over Western Equatorial State, Central Equatorial, Eastern Equatorial, and Southeastern Pibor Administration Area. While **less than 50 mm** is concentrated in most parts of the country. Using ARC2 Estimated Rainfall scripts.

Rainfall Forecast for 27 May to 03 June 2026

The forecast for this week (27 May to 03 June 2026) indicates **Heavy rainfall of** more than 100 mm over some parts of Western Equatoria State and the western parts of Central Equatoria State. **Moderate rainfall** of about 50-100 mm is expected in Western and Central Equatoria. While **Light rainfall** (less than 50 mm) is expected over most parts of the Country.

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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In terms of rainfall anomalies, the usual dry-season conditions are expected across South Sudan, with rainfall less than 10 mm. However, rainfall anomalies, the usual wet-season conditions are expected over Western Equatoria State and Central Equatoria State.

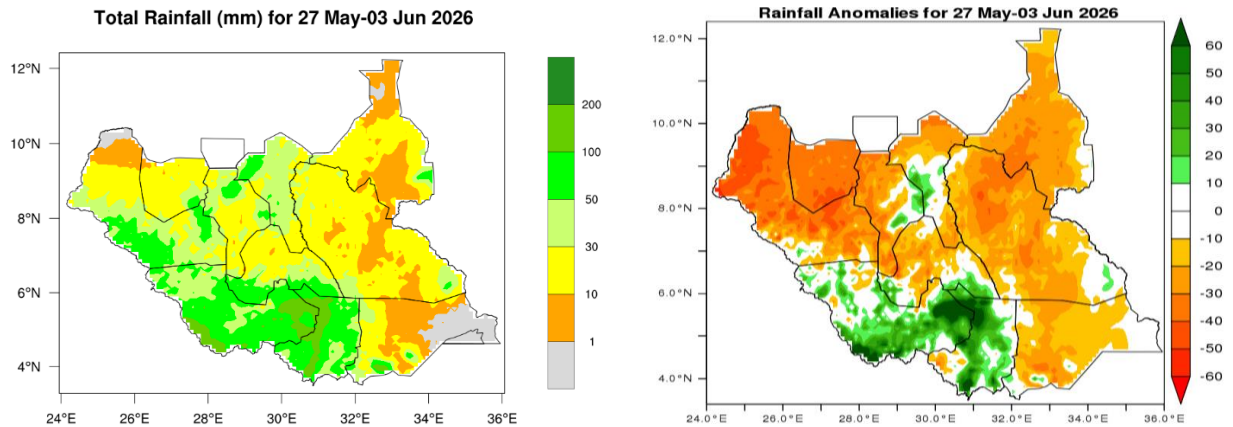


Figure 2a: Total rainfall(mm) forecast for 27/05 to 03/06/2026 **Figure2b:** Rainfall anomalies for 27/05 to 03/06/ 2026

Mean Temperature and Days with Heat Stress Forecast for 27 May to 03 June 2026

The forecast for this week (27 May to 03 June 2026) indicates that average temperatures are below 32 °C in most parts of South Sudan, while remaining above 32 °C in the northern & central parts of Upper Nile State, northern parts of Northern Bahr el Gazal State, and the northern parts of Western Bahr el Gazal State.

According to Figure 3b for Temperature Anomalies, warmer-than-usual temperatures are expected across South Sudan this week (27 May to 03 June 2026).

Based on the heat index in Figure 3c, forecasts indicate the number of days within the respective week when the heat index falls into the extreme caution category. Show that the Northern parts of the Upper Nile State, Abyei Administration Area, Warrap State and most parts of Northern Bahr el Gazal State experienced elevated temperatures of 38°C, which will cause heat stress, with up to 5-7 days of heat stress from 27 May to 03 June 2026.

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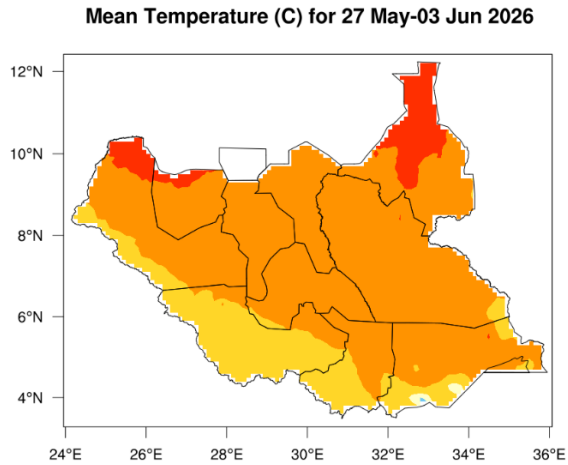


Figure 3a: Mean Temperature (°C) forecast for 27/05 to 03/06/2026

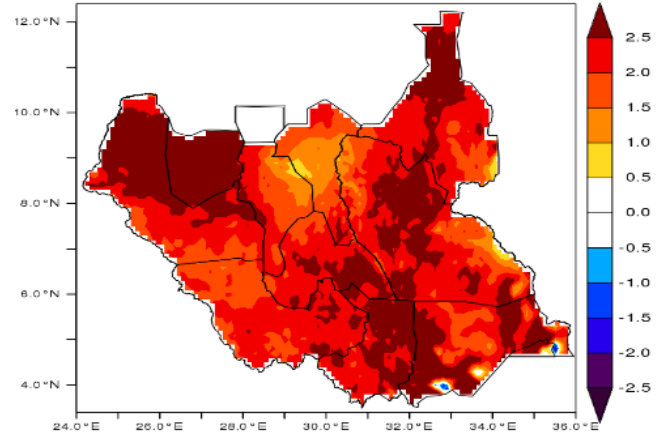


Figure3b: Temp. Anomalies (°C) forecast for 27/05 to 03/06/2026

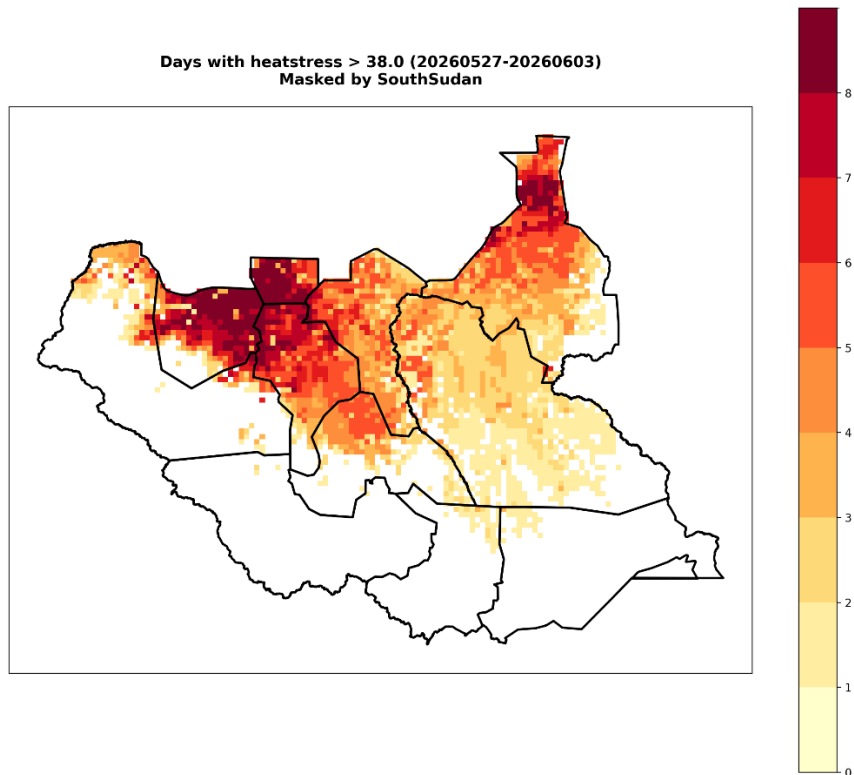


Figure3b: Day with Heat Stress Index forecast for 27/05 to 03/06/2026

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Heat Stress Index Forecast for 27 May to 03 June 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, which indicates a moderate level of risk, meaning there are potential risks ahead that you should be aware of or a warning to proceed with care and stay alert.

The second, 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 in red, 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.

Important Note: the above heat Stress index image for next week is expected to be the most serious level of warning, and immediate action is necessary. It will be as follows:

- On 31st May and 01st June 2026, over Jonglei State, Upper Nile, Unity State, Abyei Administration Area, Warrap State, and Northern Bahr el Gazal State.

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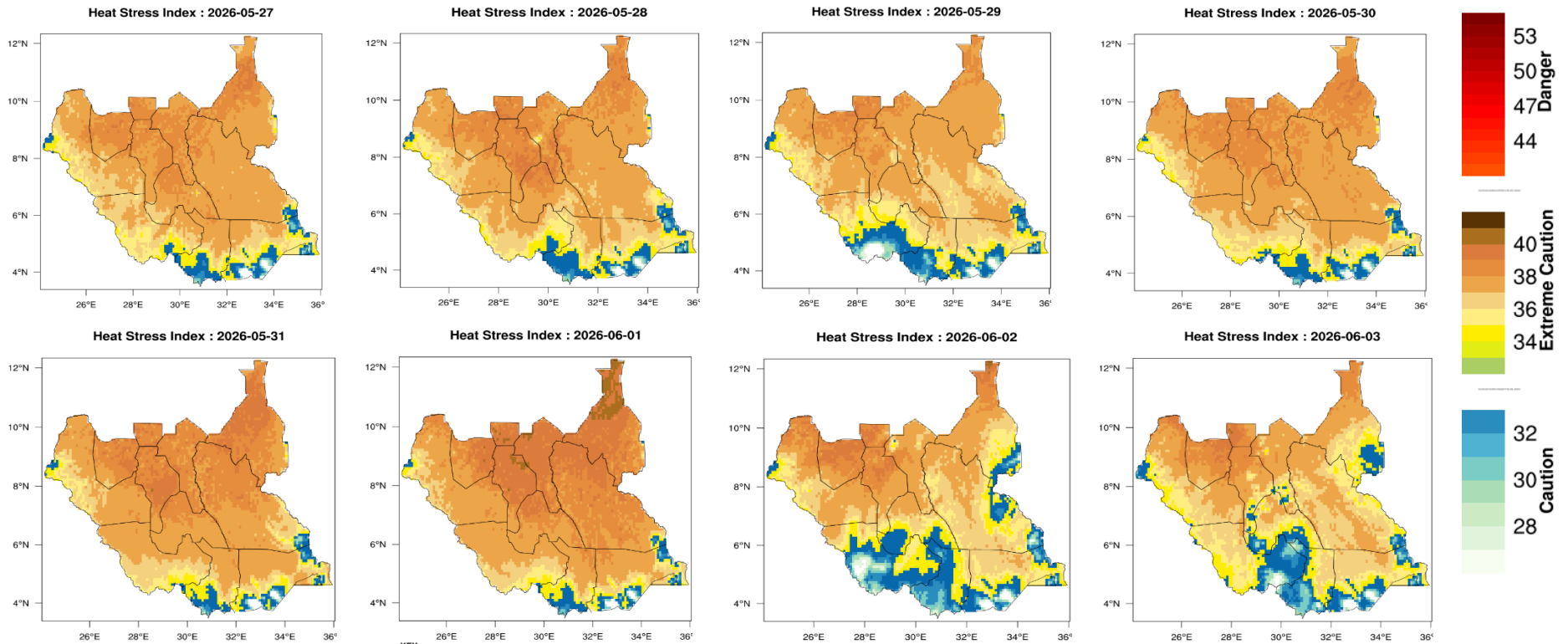


Figure 4: Heat Stress Index forecast for 27/05 to 03/06/2026

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

- Reduced exposure is necessary, together with protective measures such as cooling systems and close monitoring of vulnerable groups, including children, the elderly, the physically challenged, 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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