



South Sudan Meteorological Services

Weekly Rainfall and Temperature Outlook Monitoring and Forecast

Highlights

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

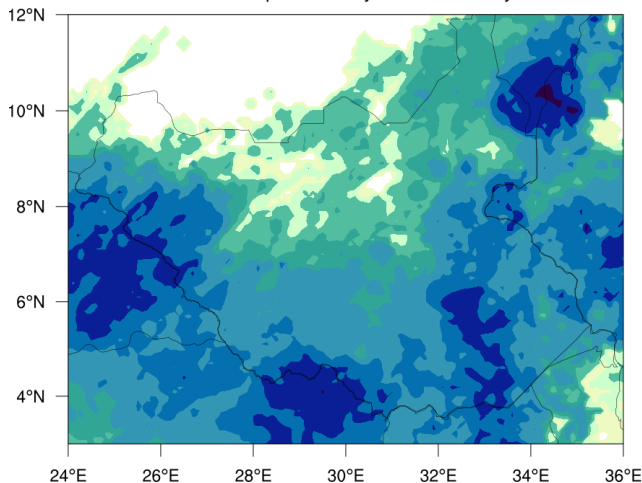
- **During the past week**, most parts of South Sudan were in wet conditions.
- **Moderate rainfall**, more than 50 mm was observed over of Western Equatorial State, Central Equatorial, Eastern Equatorial, Pibor Administration Area, Southeast parts of Upper Nile and Southern parts of Western Bahr el Gazal State

Forecast for 13 to 20 May 2026

- **Moderate rainfall** (more than 50 mm) over most parts of the South Sudan.
- **The Heat Stress Index** on 13th, 16th, 18th, and 20th May 2026 is expected to reach the most serious warning level, with temperatures exceeding 40 °C, necessitating immediate action over most states of South Sudan.

Recent Rainfall and Temperature Observations

ARC2 Est Precip for 03-May-2026 to 10-May-2026



Monitoring last week's Satellite & Gauge Estimated Rainfall (mm) for 03 to 10 May 2026

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

Figure 1: Past week ARC2 Estimated Rainfall(mm)

Rainfall Forecast for 13- 20 May 2026

The forecast for this week (13- 20 May 2026) indicates **Heavy rainfall** of more than 100 mm over Western Equatoria State, some parts of Central Equatoria State, Eastern Equatoria State, Northern parts of Jonglei State, Central parts of Upper Nile State, and Southern parts of Bahr el Gazal State. **Moderate rainfall** of about 50 mm to 100 mm is expected over most parts of the Country. While **Light rainfall** (less than 50 mm) is expected over Eastern Equatoria State, Northern parts of Upper Nile State, most parts of Unity State, Abyei Administration Area, Northern Bahr el Gazal State, some parts of Warrap State, and northern parts of Western Bahr el Gazal State.

For more information, please contact 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

Weekly Rainfall and Temperature Outlook Monitoring and Forecast

In terms of rainfall anomalies, the usual dry-season conditions are expected across South Sudan, with rainfall less than 10 mm. However, the rainfall anomalies, the usual wet-season conditions are expected over some parts of the Western Equatoria State, some parts of Central Equatoria State, Eastern Equatoria State, Northern parts of Jonglei State, Central parts of Upper Nile State, Southern parts of Northern Bahr el Gazal State, and Southern parts of Western Bahr el Gazal State.

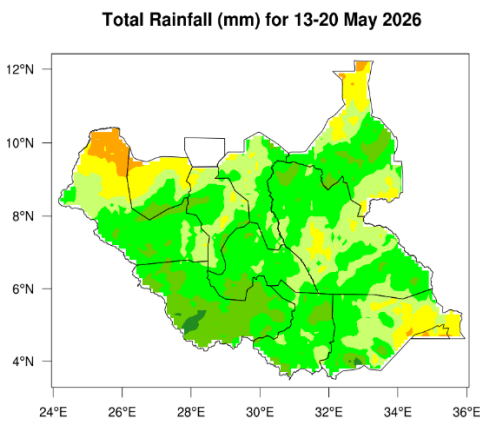


Figure 2a: Total rainfall(mm) forecast for 13-20 May 2026

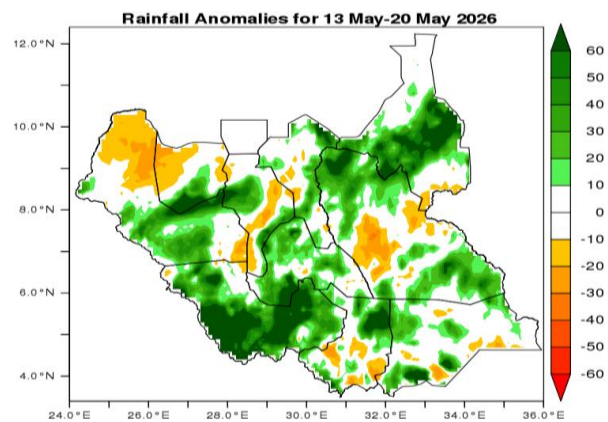


Figure 2b: Rainfall anomalies for 13-20 May 2026

Mean Temperature and Days with Heat Stress Forecast for 13-20 May 2026

The forecast for this week (13-20 May 2026) indicates that average temperatures are below 32 °C in most parts of South Sudan, while remaining above 32 °C in the northern parts of Upper Nile 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 (13-20 May 2026). expect the southern parts of Jonglei and the southern parts of Upper Nile State to experience colder-than-usual temperatures.

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 most parts of the Central and Northern part of South Sudan experienced elevated temperatures of 38°C, which will cause heat stress, with up to 3-7 days of heat stress from 13-20 May 2026.



South Sudan Meteorological Services

Weekly Rainfall and Temperature Outlook Monitoring and Forecast

Mean Temperature (C) for 13-20 May 2026

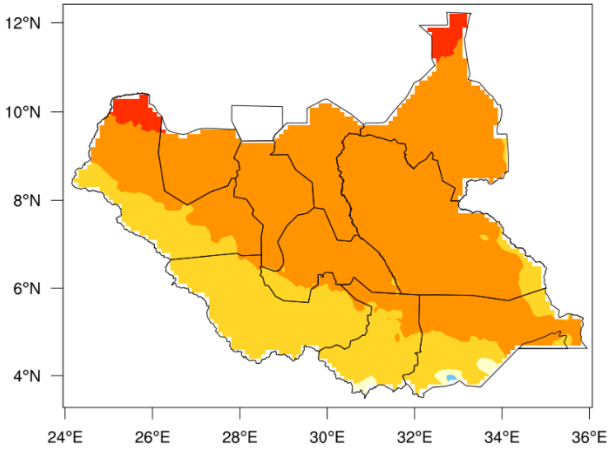


Figure 3a: Mean Temperature (°C) forecast for 13-20 May 2026

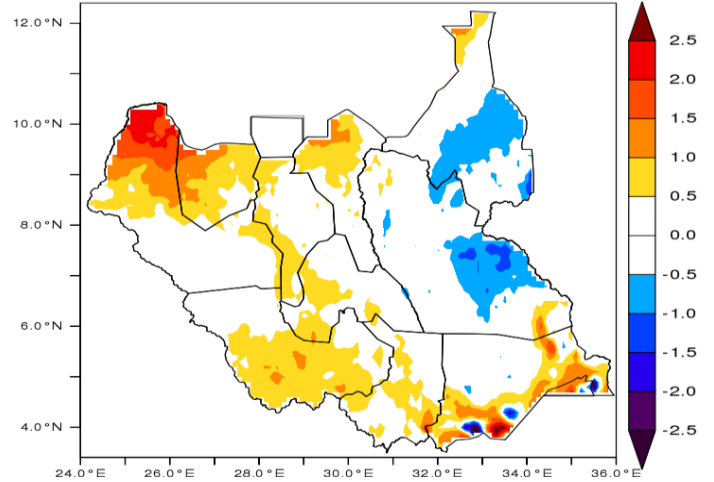


Figure3b: Temp. Anomalies (°C) forecast for 13-20 May 2026

Days with heatstress > 38.0 (20260513-20260520)
Masked by SouthSudan

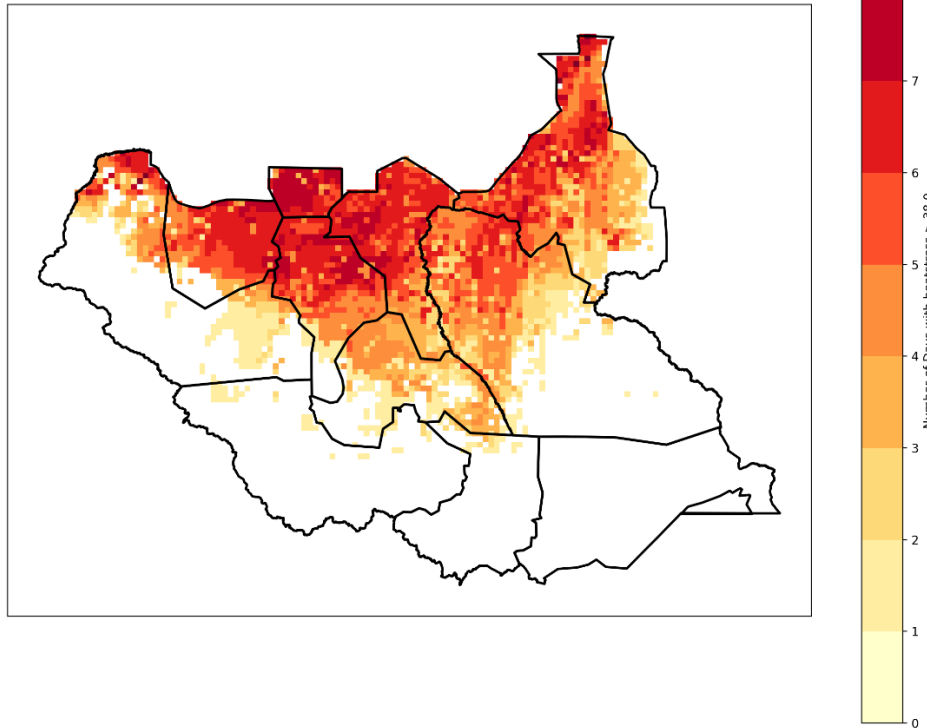


Figure3b: Day with Heat Stress Index forecast for 13 to 20 May 2026

For more information, please contact 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



Weekly Rainfall and Temperature Outlook Monitoring and Forecast

Heat Stress Index Forecast for 13-20 May 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 13th, 16th, 18th and 20th May 2026, over Jonglei State, Upper Nile, Unity State, Abyei Administration Area, Warrap State, and Northern Bahr el Gazal State.

Weekly Rainfall and Temperature Outlook Monitoring and Forecast

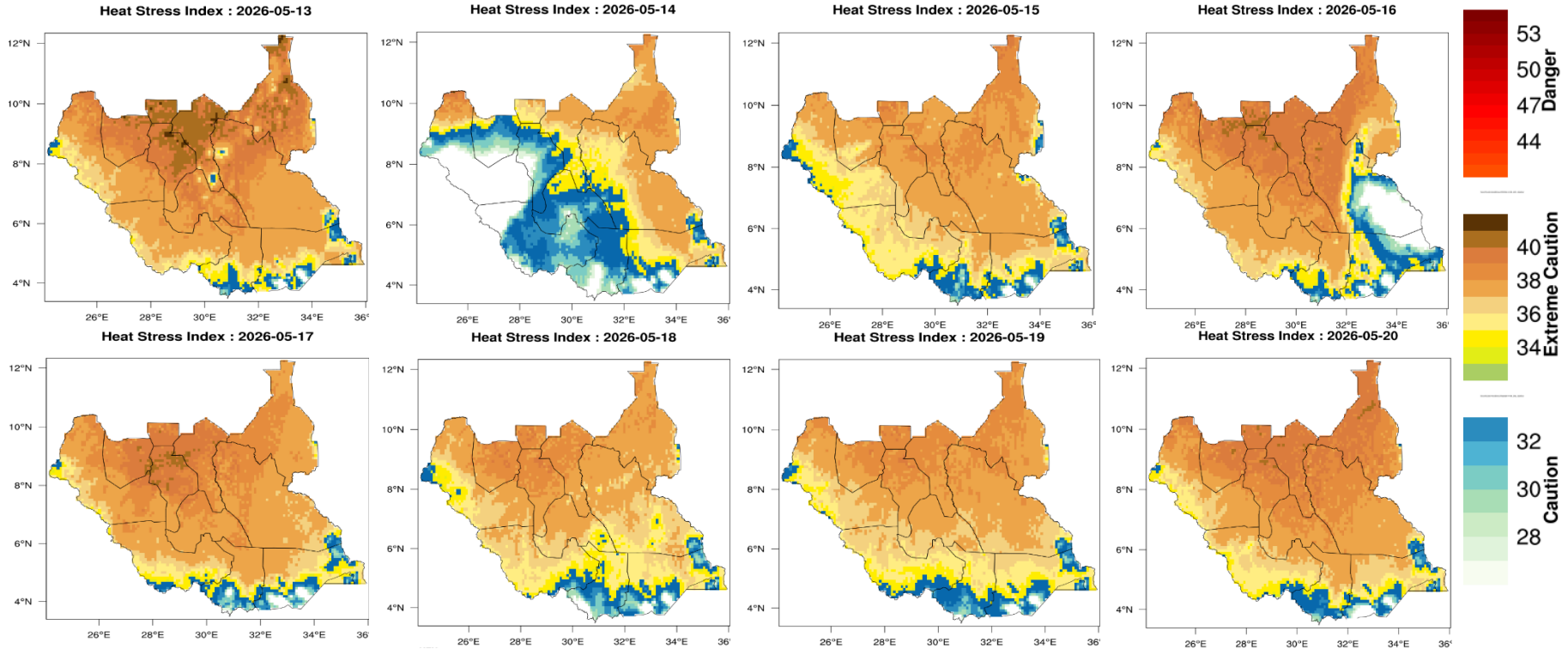


Figure 4: Heat Stress Index forecast for 13-20 May 2026

For more information, please contact 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



South Sudan Meteorological Services

Weekly Rainfall and Temperature Outlook Monitoring and Forecast

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.

For more information, please contact 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