



SOUTH SUDAN METEOROLOGICAL SERVICE

WEEKLY WEATHER OUTLOOK, MONITORING AND FORECAST

16–23 SEPTEMBER 2026

HIGHLIGHTS

TOTAL RAINFALL

100–200 mm

Forecast over selected counties in Western Equatoria, and Raja in Western Bahr el Ghazal State.

MEAN TEMPERATURE

>28°C

Average temperatures expected across most parts of South Sudan.

WIND

stronger winds of up to **9 m/s**
Expected over Eastern Equatoria.

HEAT STRESS

EXTREME CAUTION

Expected over most parts of South Sudan during the forecast period.

1. RECENT RAINFALL AND TEMPERATURE OBSERVATIONS

Monitoring for 05 to 12 September 2026 indicates that most parts of South Sudan experienced generally dry conditions. Rainfall exceeding 70 mm was observed over several counties in the western parts of the country.

Over the past week, rainfall indicates the highest accumulations, exceeding 70 mm, over Centre part of Nagero, most parts of Tambura in Western Equatoria State; Northern parts of Wau, most parts of Raja in Western Bahr el Ghazal State; and most parts of Aweil Centre in Northern Western Bahr el Ghazal State. Light rainfall of less than 30 mm was concentrated over most other parts of the country.

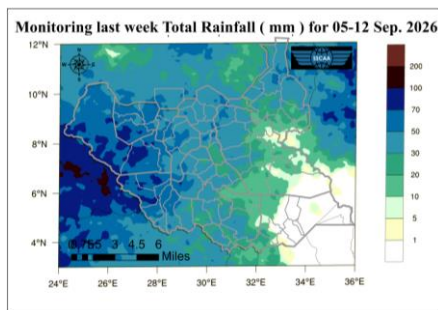


Figure 1. Satellite & gauge-estimated rainfall (mm),

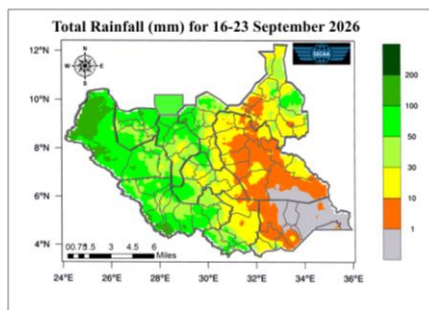


Figure 2a. Total rainfall forecast (mm)

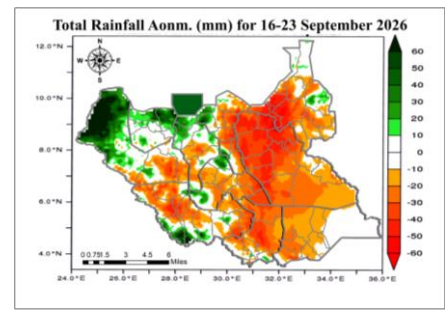


Figure 2b. Rainfall anomalies forecast (mm)

2. RAINFALL FORECAST | 16–23 SEPTEMBER 2026

Moderate rainfall of approximately 100–200 mm is forecast over Southern Ibba, Yambio & Nzara, Western parts of Ezo County in Western Equatoria State; and most parts of Raja in Western Bahr el Ghazal State.

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

In terms of rainfall anomalies, the usual wet conditions are expected over southern parts of Western Equatoria State; most parts of Raja in Western Bahr el Ghazal State; most parts of Northern Bahr el Ghazal State; the Abyei Administrative Area; and some parts of Warrap, Unity and Upper Nile State.

Near-normal seasonal conditions are expected across other areas, subject to local variations.

Forecast element	Expected condition	Main areas
Rainfall amount	100–200 mm	Ibba, Yambio, Nazara, Ezo; Raja.
Rainfall amount	<50 mm	Most other parts of South Sudan.
Rainfall anomaly	Wet conditions	Southern parts of WES, Raja in WBGs, AAA, some parts of Warrap, Unity and Upper Nile State

3. MEAN TEMPERATURE FORECAST | 16–23 SEPTEMBER 2026

Average temperatures exceeding 28°C are forecast over most parts of South Sudan during the period 16–23 September 2026.

Average temperatures less than 28°C are expected over southeastern parts of the Pibor Administrative Area; northern parts of Kapoeta East and Kapoeta South; Budi, Ikotos, Torit and Magwi counties in Eastern Equatoria State; Kajo-Keji, western parts of Juba, Lainya, Yei and Morobo counties in Central Equatoria State; most counties in Western Equatoria State; most counties in Western Bahr el Ghazal State; most counties in Northern Bahr el Ghazal State; and Maban County in Upper Nile State.

Temperature anomaly forecasts indicate warmer-than-usual temperatures across South Sudan during the forecast period.

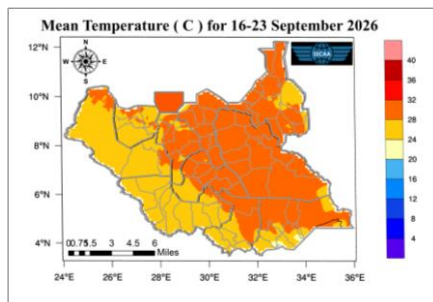


Figure 3a. Mean temperature forecast (°C).

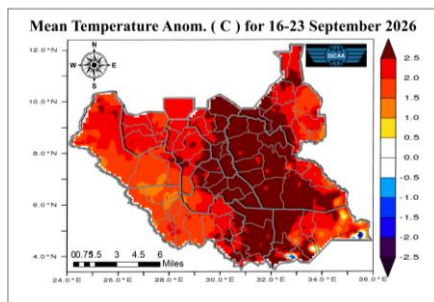


Figure 3b. Temperature anomalies forecast (°C).

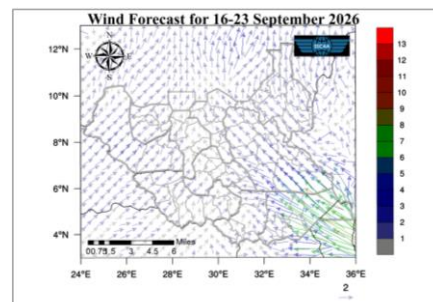


Figure 4. Wind direction and speed forecast.

4. WIND DIRECTION AND SPEED FORECAST | 16 – 23 SEPTEMBER 2026

Predominantly light to moderate southwesterly winds of 2–4 m/s are expected across most parts of South Sudan. Relatively stronger winds, reaching up to 9 m/s, are forecast over most parts of Eastern Equatoria State.

These winds are expected to support moisture transport into the country and may contribute to rainfall activity across several areas. Localized stronger wind gusts may also occur in association with thunderstorms.

5. HEAT STRESS INDEX FORECAST | 16 – 23 SEPTEMBER 2026

The Heat Stress Index categories used in this bulletin are Caution, Extreme Caution and Danger.

Alerts: The Heat Stress Index forecast indicates **Extreme Caution** conditions on selected days and across several locations in South Sudan.

Alert dates: 16, 17 and 20, 21 and 22 September 2026

Affected areas: Most payams in South Sudan.

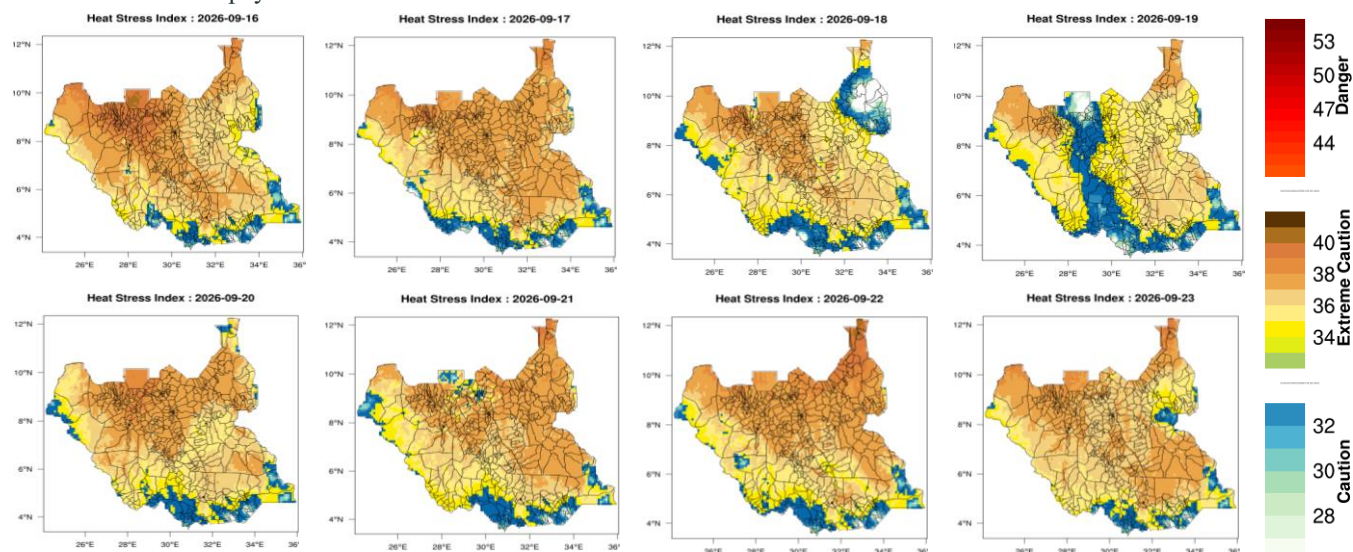


Figure 5. Heat Stress Index forecast, 16–23 September 2026.

HEAT-STRESS ALERT — EXTREME CAUTION

Reduced exposure is advised, particularly during the hottest part of the day. Vulnerable groups should be closely monitored.

6. HEAT-STRESS SAFETY ADVISORY

- Reduce prolonged exposure to high temperatures and use protective measures such as shade, cooling facilities and adequate ventilation where available.
- Closely monitor vulnerable groups, including children, older persons, people with physical disabilities and expectant mothers.
- During the hottest part of the day, remain indoors or in shaded areas where possible and drink water frequently to maintain hydration.
- Continue to monitor official meteorological advisories, particularly in areas experiencing hotter and drier conditions.
- Follow weekly updates from the South Sudan Meteorological Service for changes in heat-stress conditions.

7. SECTORAL PREPAREDNESS MESSAGE

-  **Agriculture and livestock: use the rainfall outlook to guide short-term field operations, livestock management and water planning.**
-  **Transport and infrastructure: monitor localized heavy rainfall, thunderstorms and strong wind gusts that may affect roads and exposed infrastructure.**
-  **Health: strengthen heat-risk communication and monitor vulnerable populations during Extreme Caution conditions.**
-  **Disaster risk management and emergency services: maintain readiness for localized heavy rainfall, thunderstorms, flash flooding and heat-related impacts.**

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.

CONTACT INFORMATION

South Sudan Meteorological Service | South Sudan Civil Aviation Authority

Emmanuel Qurino, Senior Meteorologist/Climate Forecaster | equirino@yahoo.com | +211 928 812 746

Aciek Thukul, Meteorologist/ Climate Data & Monitoring Assistant | aciekthukul100@gmail.com | +211 927 296 190

Website: www.meteosouthsudan.com.ss | Office: South Sudan Civil Aviation Headquarters

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SSMS • Forecast Period 16- 23 September 2026