

Seasonal Climate Outlook for JJAS 2026

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Beijing Climate Center, June 2, 2026

Outline

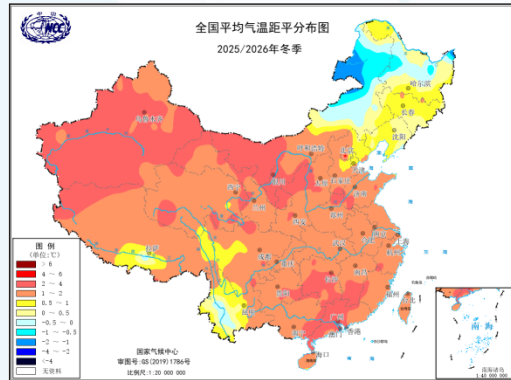


- 1. 2025/2026 winter Climate in China**
- 2. Monitoring and Outlook of ENSO**
- 3. Prediction and Diagnostic Analysis**
- 4. Outlook for JJAS 2026**

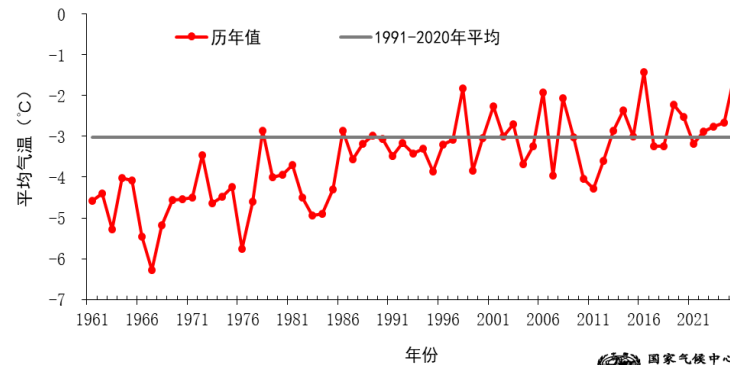
A Brief Review of Winter Climate in China

- In the winter of 2025/2026, the national mean temperature was -1.5°C , **the second highest on record since 1961 (2016/2017)**. Most regions across the country were close to or **1 to 4°C higher** than the average for the same period. Significant fluctuations between warm and cold periods.
- The national mean precipitation was 27 millimeters, which was 35% less than climatology. Since February 2026, drought has rapidly developed in South and Southwest China.

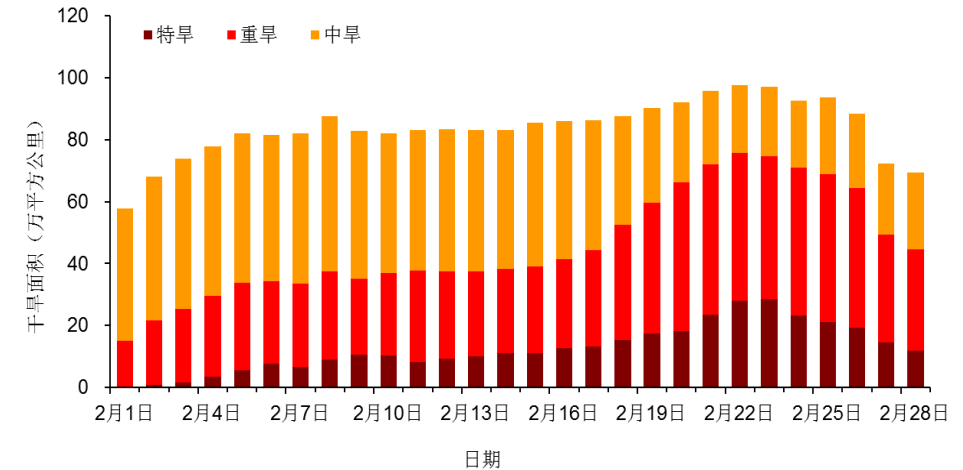
temperature anomaly



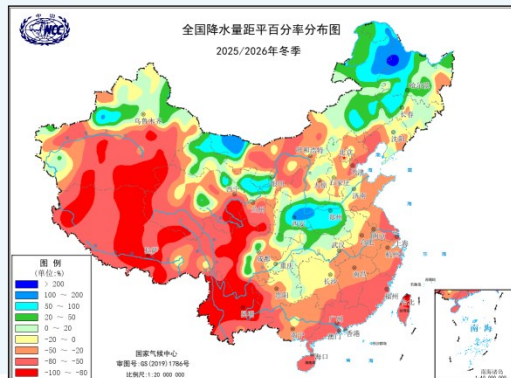
Mean temperature since 1961



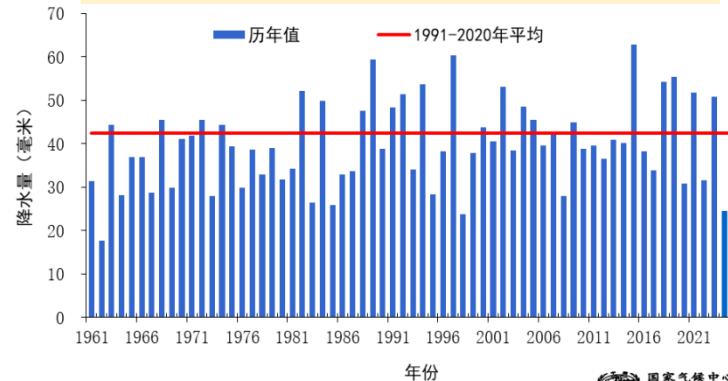
Daily variation of drought areas in Feb 2026



precipitation anomaly percentage



Mean precipitation since 1961





Outline



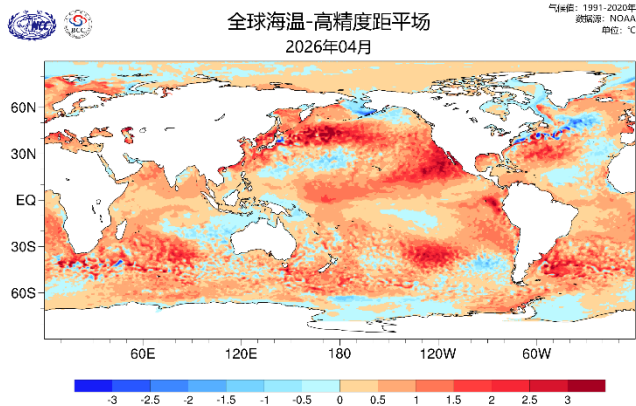
1. **2025/2026 winter Climate in China**
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Monitoring: monthly SSTA and Nino index

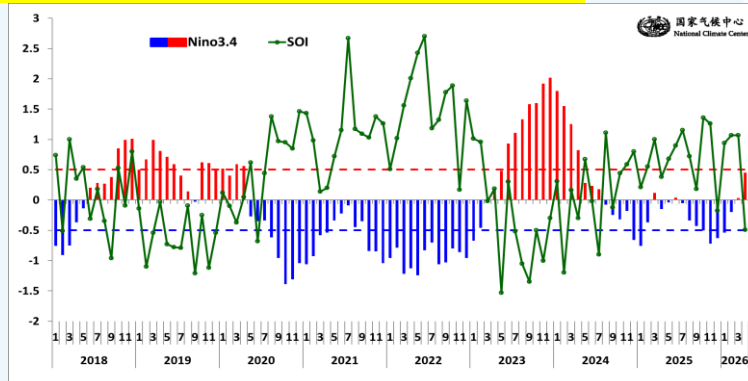


The La Niña condition in the equatorial central-eastern Pacific, which began in October 2025, weakened markedly and terminated in February 2026. Due to its short duration, it did not evolve into a La Niña event.

SSTA in April

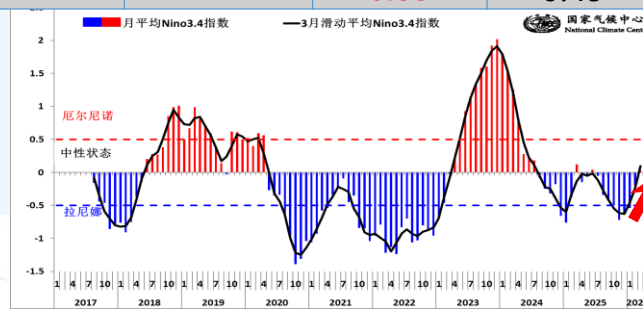


Monthly monitoring



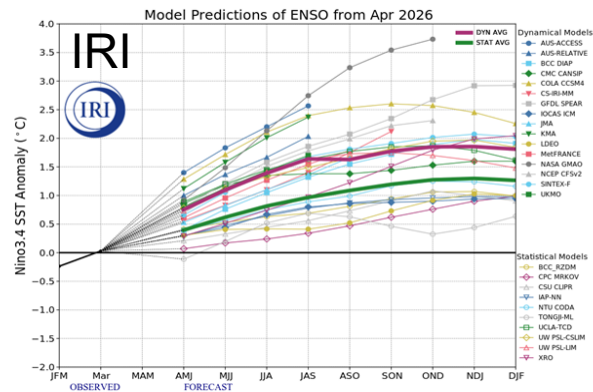
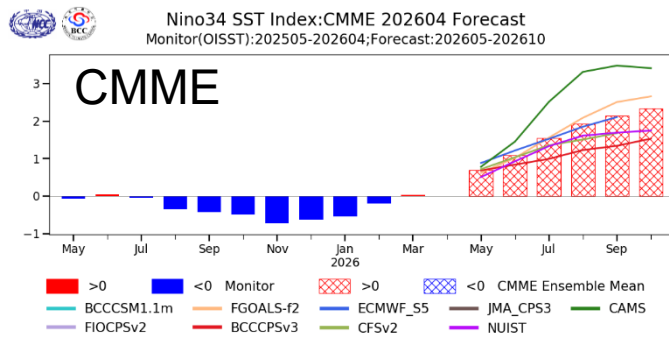
3-month running average of Niño3.4

	Niño3.4 (°C)	3 months moving average (°C)	Niño3 (°C)	Niño4 (°C)	SOI
2024.12	-0.66	-0.53	-0.38	-0.42	0.8
2025.01	-0.76	-0.60	-0.21	-0.7	0.21
2025.02	-0.37	-0.34	0.10	-0.63	0.55
2025.03	0.12	-0.13	0.54	-0.4	1
2025.04	-0.15	-0.02	-0.01	-0.18	0.38
2025.05	-0.04	-0.05	-0.21	-0.01	0.68
2025.06	0.04	-0.02	-0.03	0.23	0.9
2025.07	-0.05	-0.12	0.05	0.03	1.15
2025.08	-0.34	-0.27	-0.29	-0.07	0.72
2025.09	-0.43	-0.42	-0.42	-0.32	0.18
2025.10	-0.5	-0.55	-0.39	-0.34	1.36
2025.11	-0.72	-0.62	-0.64	-0.55	1.26
2025.12	-0.63	-0.63	-0.71	-0.24	-0.18
2026.01	-0.54	-0.46	-0.49	-0.04	0.94
2026.02	-0.20	-0.24	0.00	0.23	1.07
2026.03	0.03	0.09	0.24	0.32	1.07
2026.04	0.45		0.54	0.83	-0.49



- ✓ In April, SSTA in the equatorial central-eastern Pacific increasing rapidly, with the **Niño3.4 index reaching 0.45° C**.
- ✓ The **Niño3.4 index** from January to April 2026 was -0.54° C, -0.2° C, 0.03° C, and 0.45° C, respectively, **indicating a rapidly rising tendency**.
- ✓ The **Niño3.4 index** for the **1st to 5th pentads of May** was 1.0° C, 0.9° C, 0.98° C, 1.01° C and 0.97° C, respectively.

Prediction: Most models predict that an El Niño state start recently, with the peak Niño3.4 index likely to around 2° C or exceed 2° C.



Monitoring and Outlook of ENSO



- ✓ **Rapid development of an El Niño event**, with the **SSTA** in the central-eastern equatorial Pacific **warming to above 0.5°C during JJA 2026**.
- ✓ **The intensity** of the anticipated El Niño event **would be moderate or strong**.
- ✓ In addition, about 75% of forecasts suggest the SSTA **in the tropical Indian Ocean will also be warm in JJA 2026**.
- ✓ And 62.5% of predictions indicate **warm SSTA in the north tropical Atlantic Ocean (NTA)** for the same season.

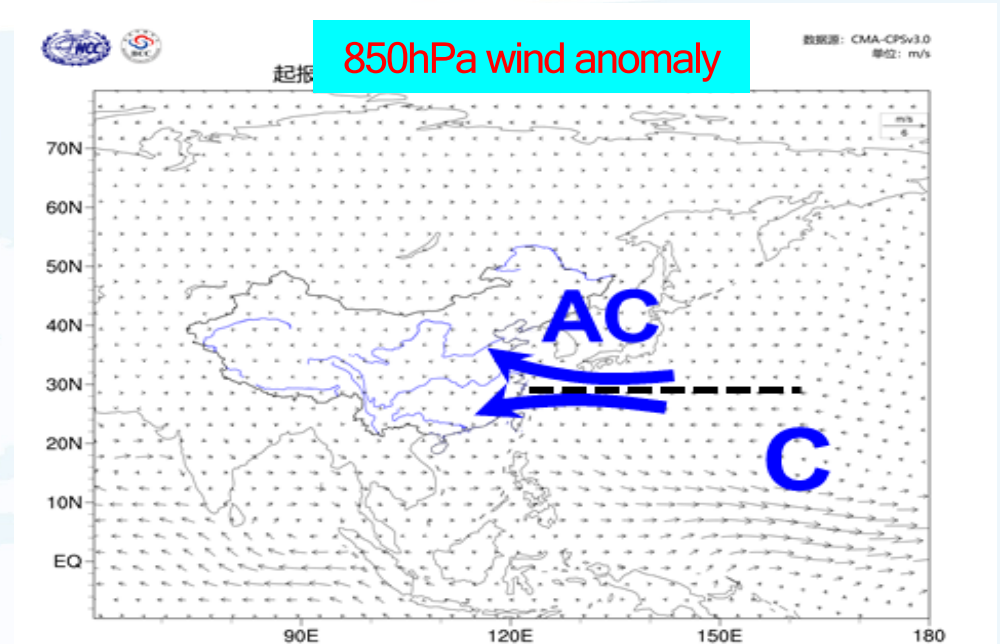
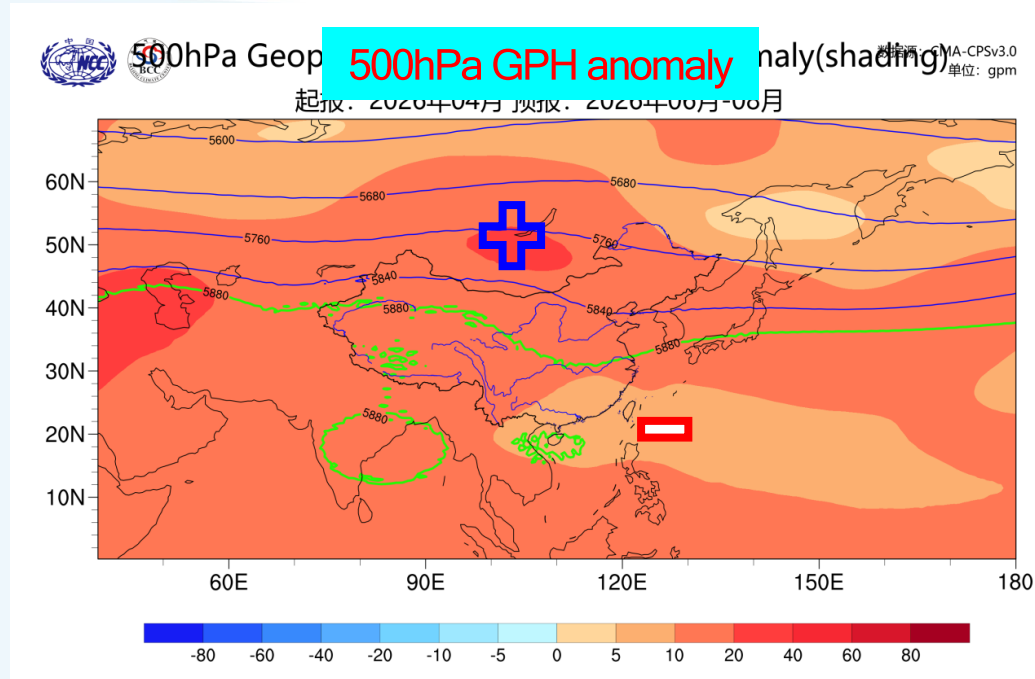


Outline



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Prediction of summer Atmospheric anomalies

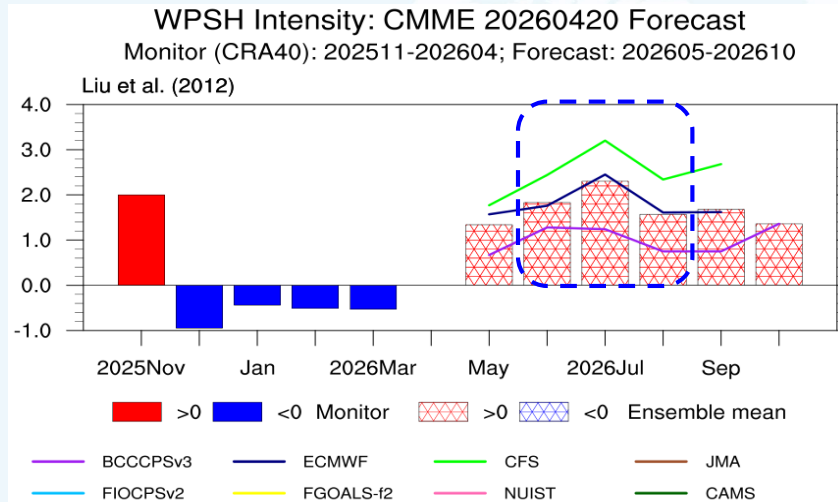


- CMA-CPSv3 predicts strong **positive height anomalies** over Lake Baikal region, **relatively low geopotential height** field over the northwestern Pacific and the Ural mountain area in the middle troposphere.
- CMA-CPSv3 predicts an **anomalous cyclonic circulation** over the western Pacific, an **anticyclonic circulation** over the Sea of Japan in the lower troposphere.
- These features indicate a **stronger East Asian summer monsoon in 2026**.

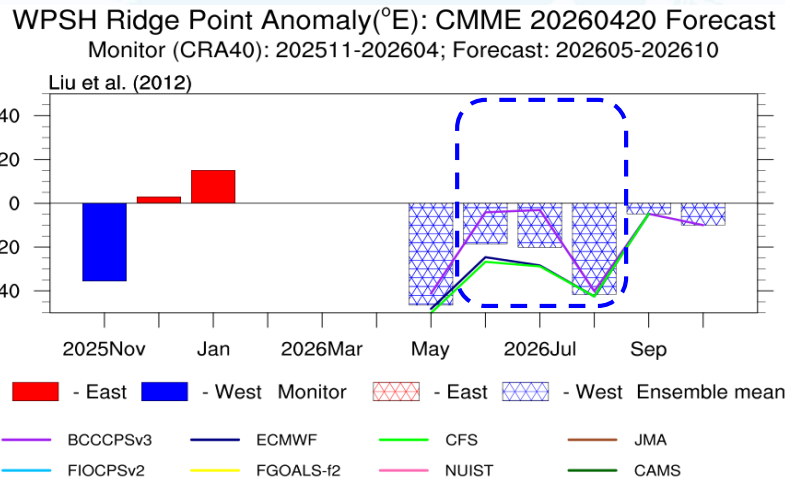
Prediction of summer WPSH



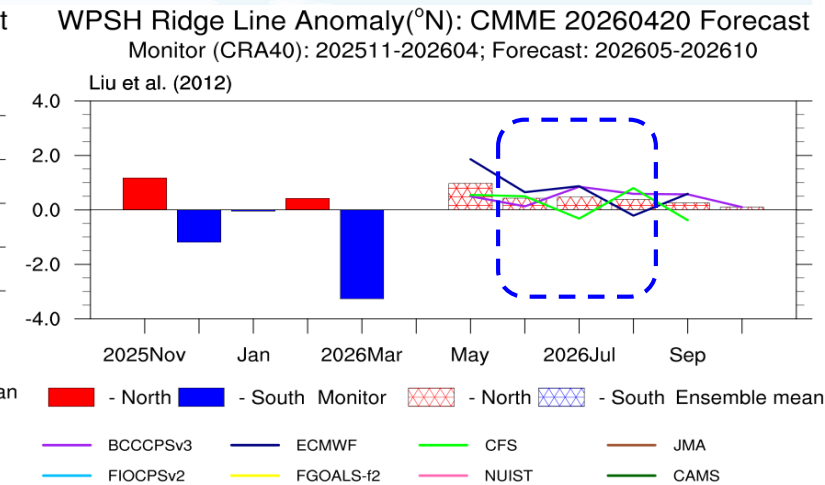
WPSH intensity index



WPSH ridge point index



WPSH ridge line index



- During summer 2026, the Western Pacific Subtropical High (WPSH) will stronger than normal.
- For July and August, WPSH is predicted to expand north-westwards than average.

Prediction of summer Precipitation



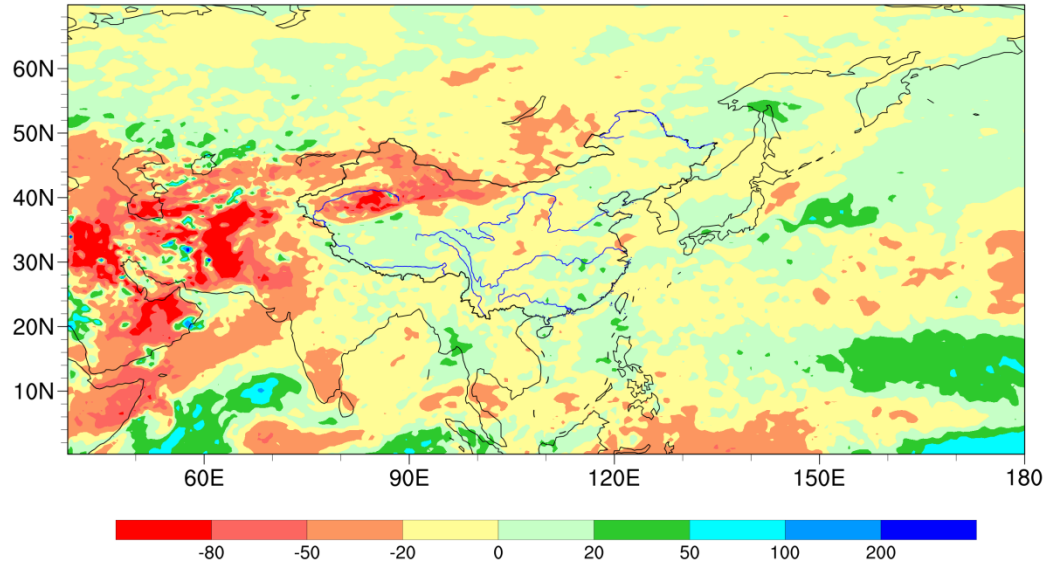
CMA-CPSv3 and CMME2.0 Started from 1st April



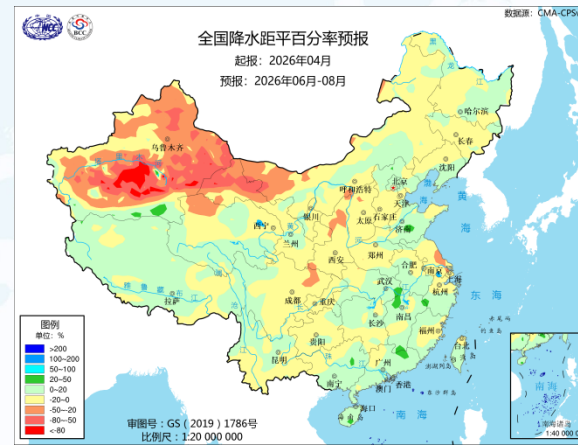
亚洲降水距平百分率预报

数据源: CMA-CPSv3.0
单位: %

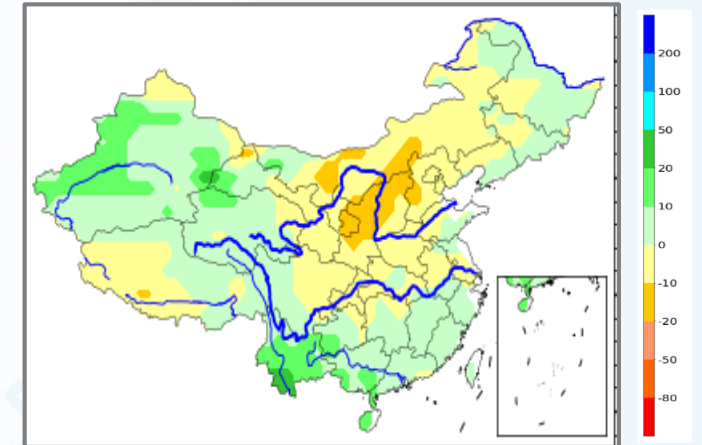
起报: 2026年04月 预报: 2026年06月-08月



CMA-CPSv3



CMME



- The CMA-CPSv3 predicts above normal precipitation over the North China, Northeast China, South China and Xizang, below normal precipitation over the Xinjiang China in summer. And below normal precipitation over the Korean Peninsula and Northern Japan.
- The CMME predicts above normal precipitation over Northeast China, most of South China, Southwest China, Xizang and Xinjiang, below normal precipitation over the North China in the summer 2026.

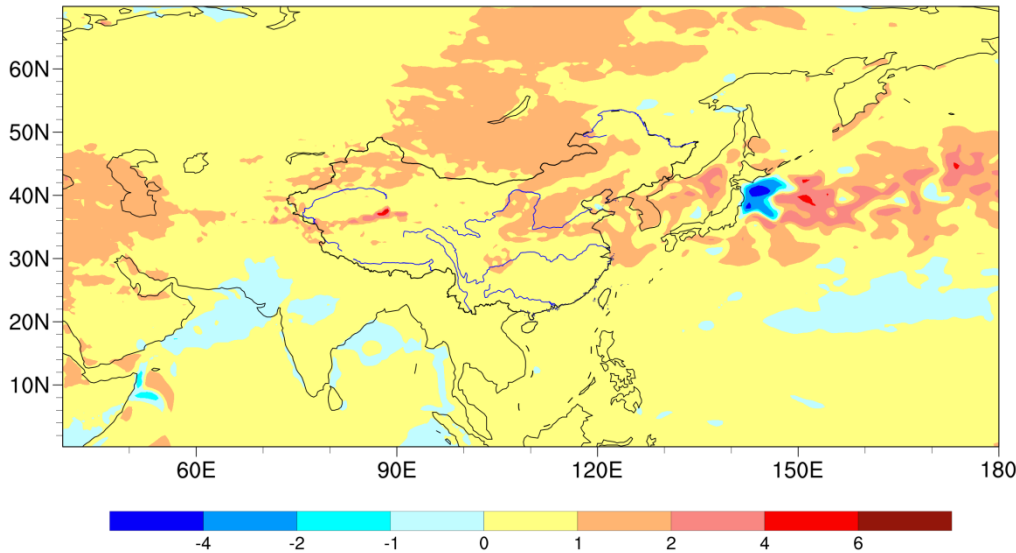
Prediction for summer 2026: Temperature

CMA-CPSv3 and CMME2.0 Started from 1st April

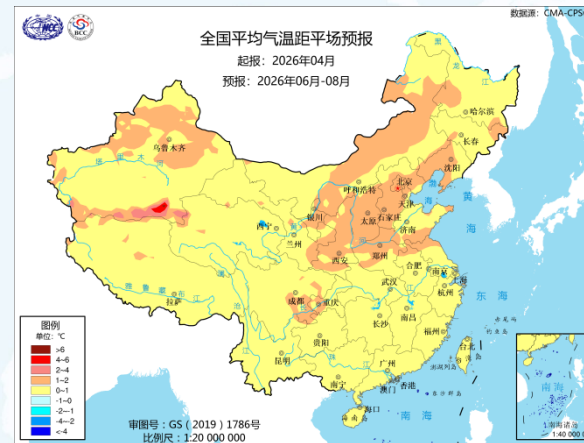


亚洲平均气温距平场预报
起报: 2026年04月 预报: 2026年06月-08月

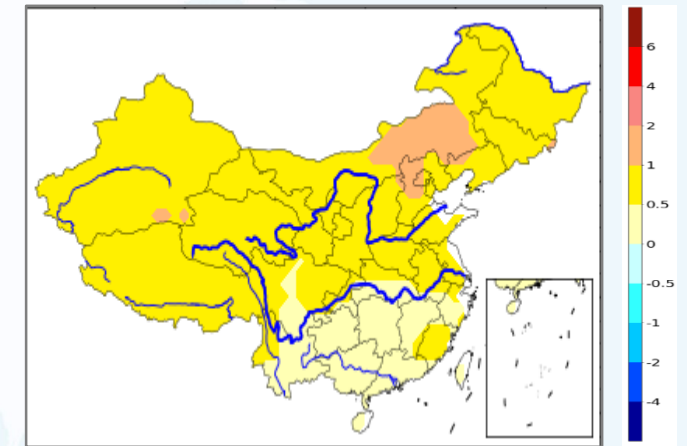
数据源: CMA-CPSv3.0
单位: °C



CMA-CPSv3



CMME



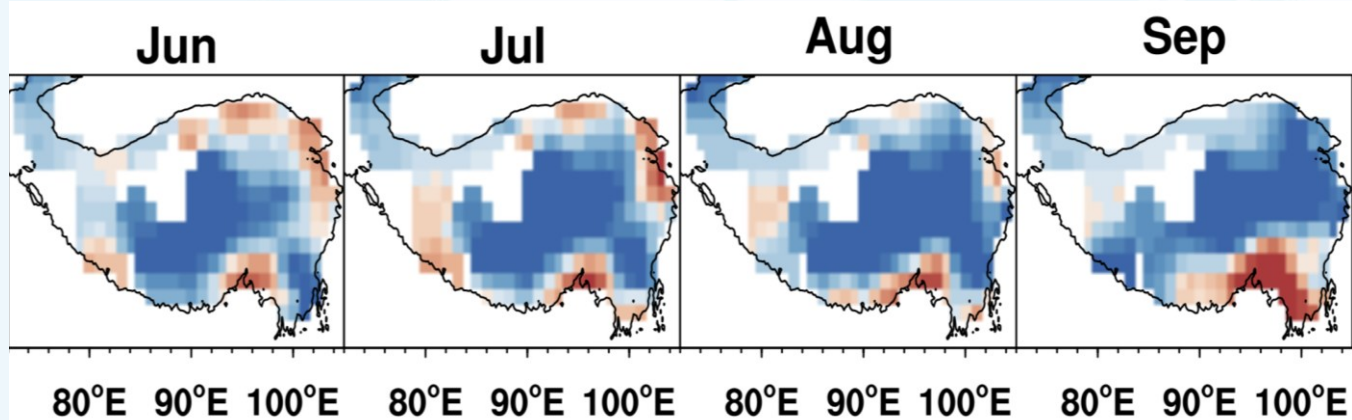
- The CMA-CPSv3 and CMME predict the temperature will be **above normal** over most Asia region in summer 2026.
- There will be continuous extreme high temperatures in the Eastern China and Xinjiang and other places.

Research and application of precipitation mechanism during flood season on the Tibet Plateau

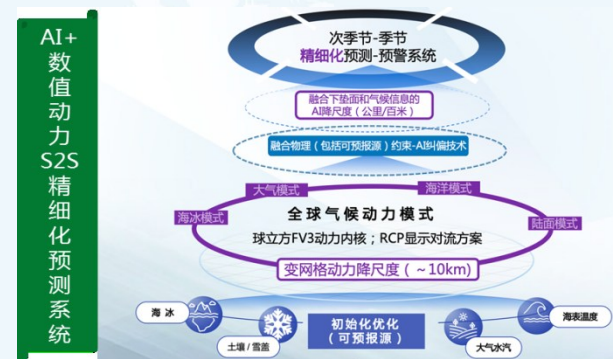
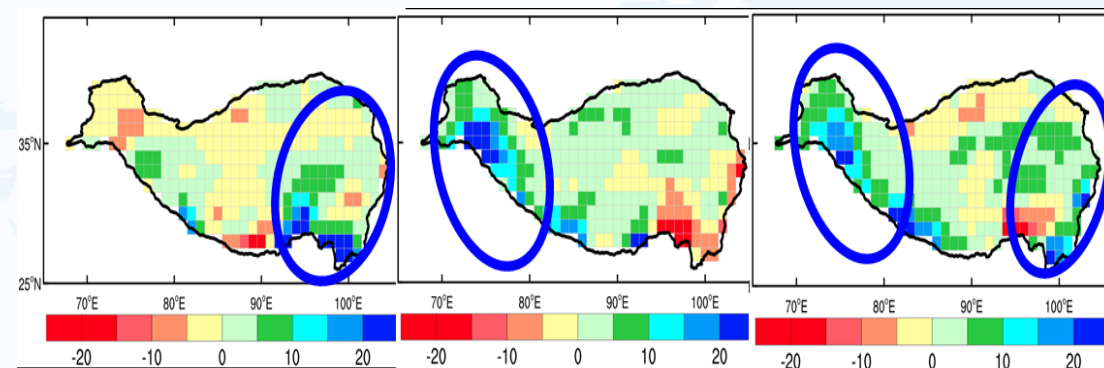


- It is expected that there will be abnormally **more precipitation** in the central and eastern parts of the plateau during this year's flood season, with **less precipitation** in the northeastern and southern edges of the plateau, while other areas will be close to normal.

Monthly rainfall over Tibet Plateau in 2026 based on evolutionary prediction method



—Dr. REN Hongli, Chinese Academy of Meteorological Sciences



—Dr. YANG Jing, Beijing Normal University



Outline

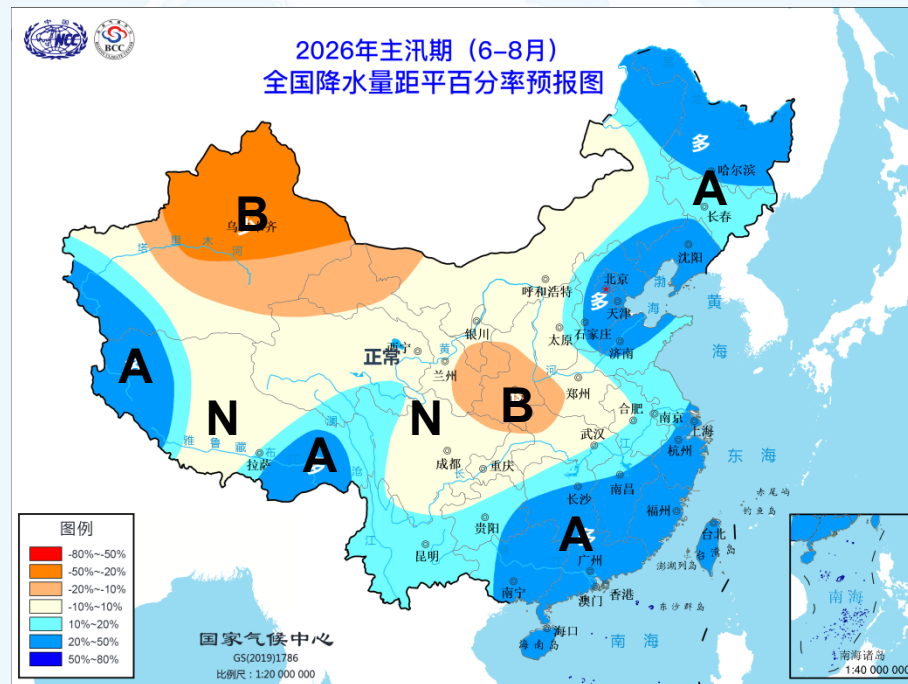


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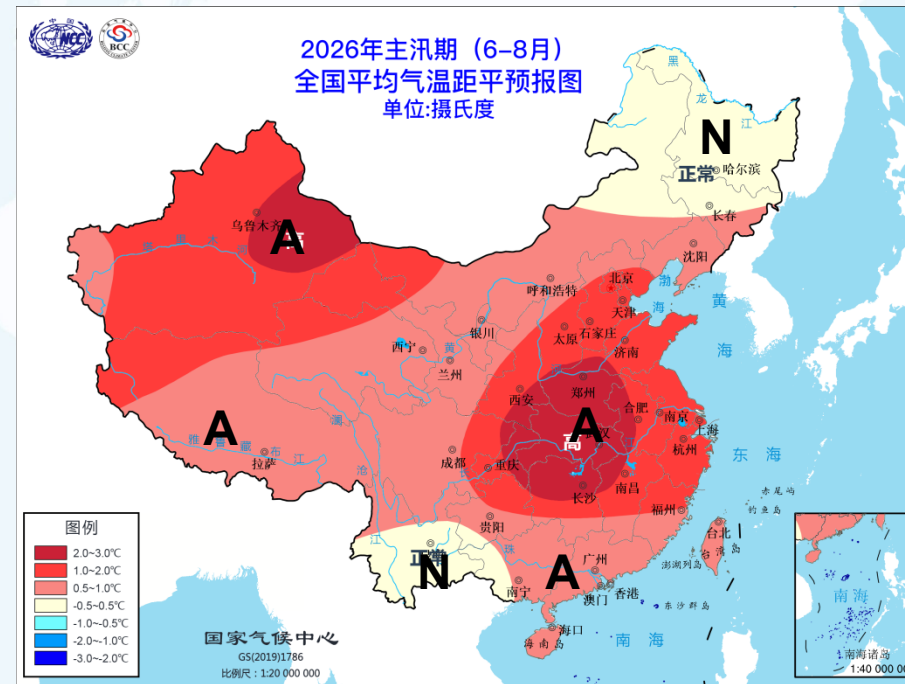
Seasonal outlook for JJA 2026 over China

- ◆ The precipitation will be **above normal** over northern and southern part of East China and southern Southwest China. **Below normal** over the middle reaches of the Yangtze River region, Northwest China and Xinjiang.
- ◆ Temperatures will be **above normal** over most parts of China. The **hot weather and heat extremes** in the coming summer will be **above normal**, but less than the value in 2022.

precipitation



temperature



A: above normal
B: below normal
N: near normal

Prediction of precipitation for JJA 2026 in Asia from **FOCRAII**



- ✓ The precipitation predictions are based on the possible influence of external forcing factors and summer monsoon circulations.
- ✓ The **deterministic consensus prediction** is illustrated in **Fig. 1A**, which was derived from the survey responses collected by BCC.
- ✓ The **probabilistic precipitation predictions** from seven dynamical models and multi-model ensemble mean (including ECMWF, NCEP, JMA, NMME, BCC, C3S, and CMME) are shown in **Fig. 1B**.

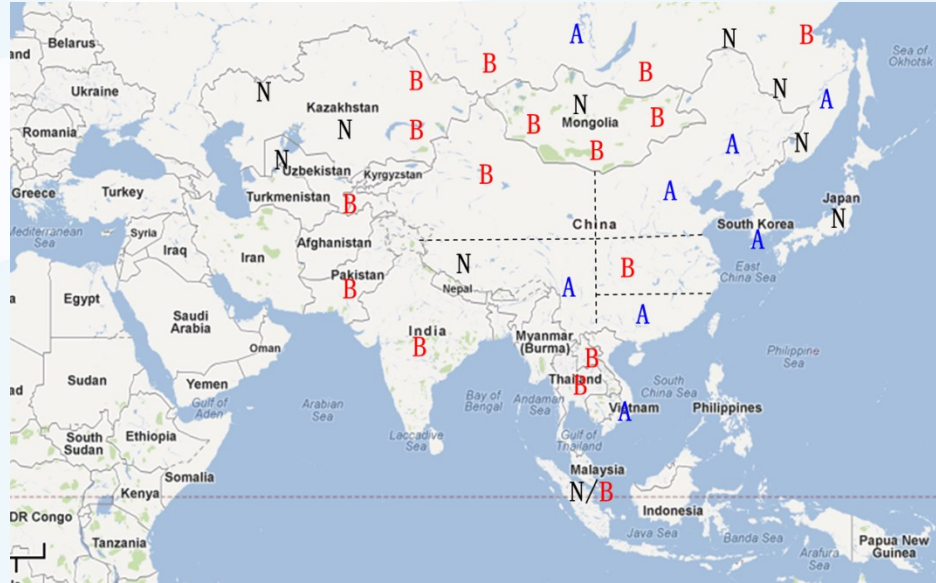


Fig. 1A Deterministic precipitation prediction for summer 2026 from feedback. (A: above normal; N: near normal; B: below normal)

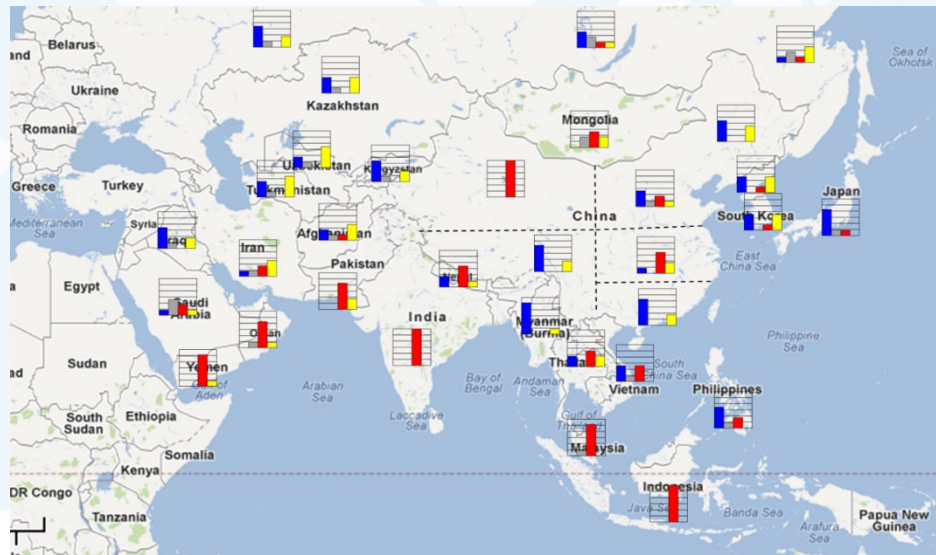


Fig. 1B Precipitation prediction from dynamical models for summer 2026. (Blue: above normal; Grey: near normal; Red: below normal; Yellow: no signal)

Prediction of temperature for JJA 2026 in Asia from **FOCRAII**



- ✓ The **deterministic temperature prediction** indicates that **temperature will be above or near normal** across most regions of Asia during the coming summer (Fig. 2A).
- ✓ The probabilistic **predictions from dynamical models show similar results** (Fig. 2B). Therefore, heatwaves may become strong in most parts of Asia, which needs to attached more attention.

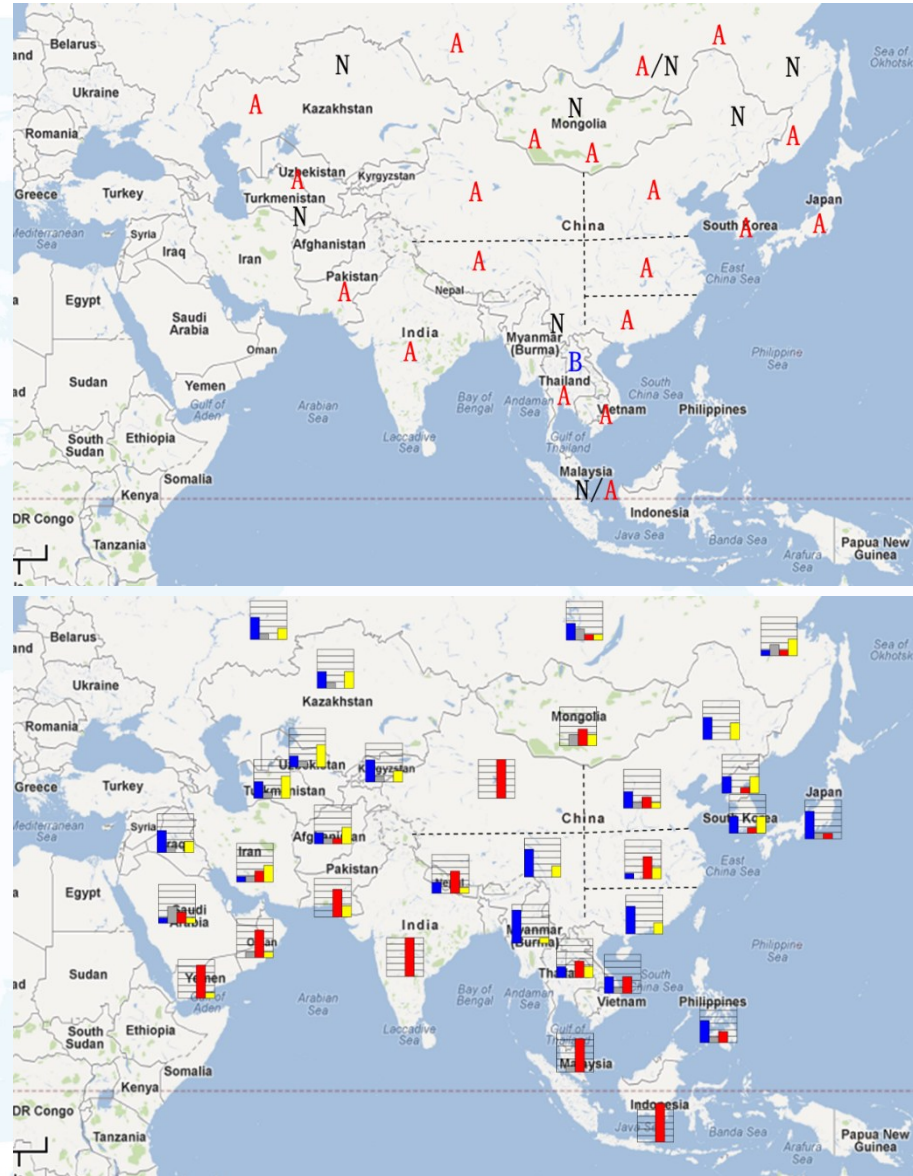


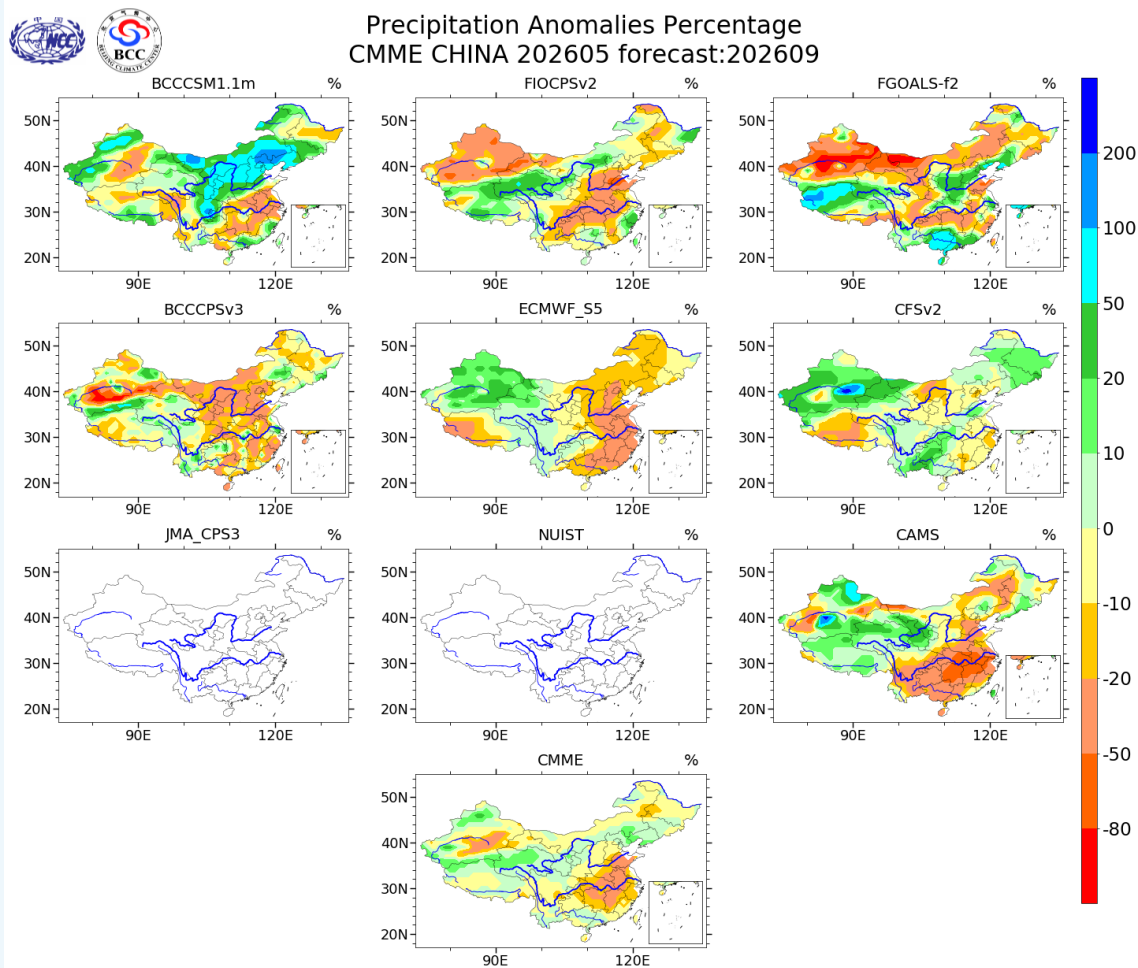
Fig. 2A The same as Fig. 1A, but for temperature.

Fig. 2B The same as Fig. 1B, but for temperature. (Red: above normal; Grey: near normal; Blue: below normal; Yellow: no signal)

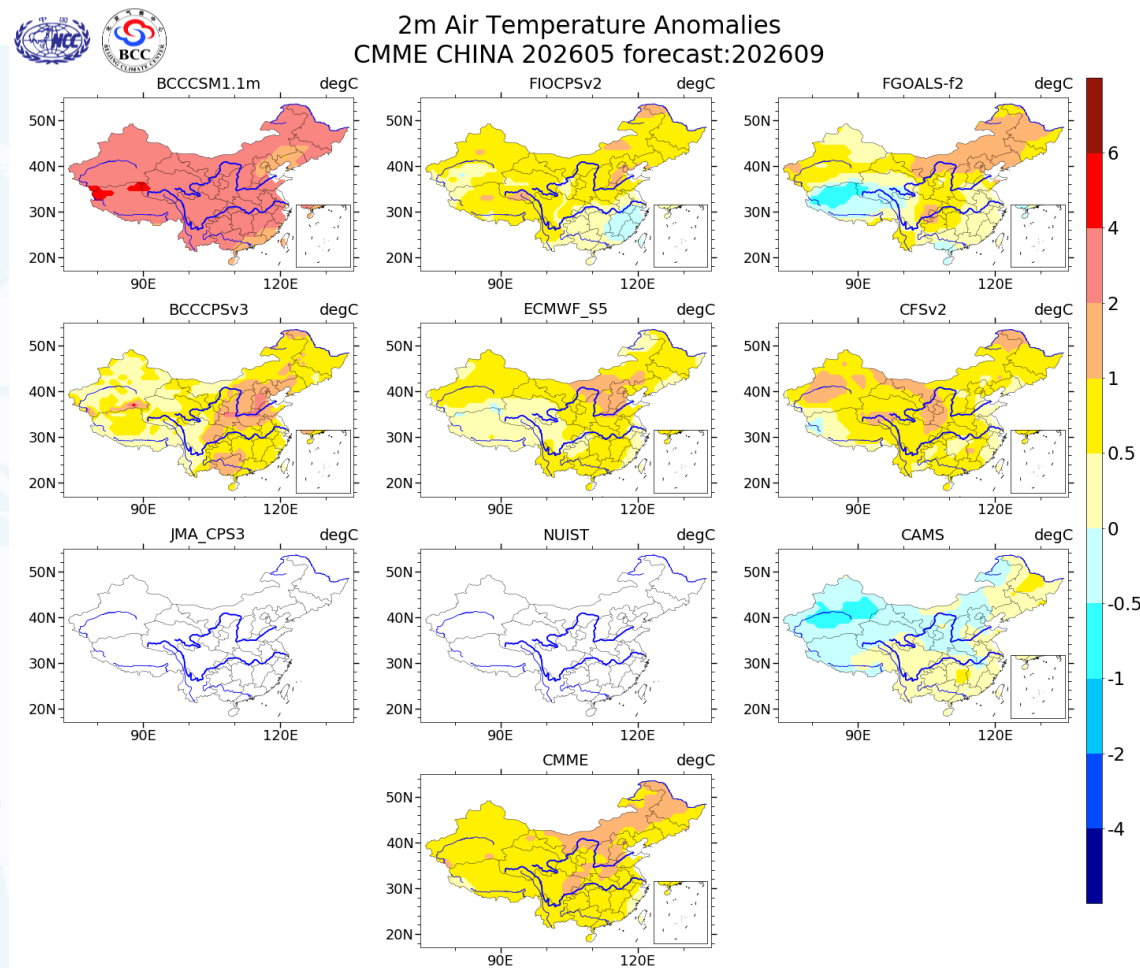
Monthly outlook of climate for Sep. 2026 over China



precipitation



temperature



- The precipitation will be **above normal** in the northern and southeastern parts of the plateau, while the rest of the areas are near normal;
- Temperatures will be **above normal** over the plateau.



国家气候中心
National Climate Centre



The 5th Session of the Third Pole Climate Forum

Thank you for your attention

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