



ཨུམ་ཡོངས་ཚུན་ཕྱད་དང་གནམ་གཤིས་རིག་པའི་རྩེ་བ།

NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
THIMPHU: BHUTAN

"Centre of Excellence in Hydrology, Meteorology and Cryosphere Science and Services"



07 August, 2026

Extended Range Prediction for Bhutan

Background

Extended Range Prediction (ERP) for Bhutan is prepared with the support from the Indian Meteorological Department (IMD), Government of India. The model used for the system is CFSv2 coupled model (Atmospheric and Ocean model) which runs once every week (Wednesday), with the 16 Ensemble Members at the horizontal resolution of around 25 km, and the products are made available the next day (Thursday). Therefore, the ERP products for Bhutan will be generated every Friday. ERP for Bhutan is carried out for two climate variables, rainfall and temperature.

Generally, the forecast output is produced on a weekly basis for a period of a month for both the variables. The current products available from NCHM are on pilot basis which needs further studies and validation with the ground observations until the product is fully operationalized.



ཨཱ། རྒྱལ་ཡོངས་ཚུད་ཕུད་དང་གནམ་གཤིས་རིག་པའི་རྩེ་བ།

NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
THIMPHU: BHUTAN

"Centre of Excellence in Hydrology, Meteorology and Cryosphere Science and Services"



Observed weather over last week

Maximum temperatures remained relatively stable throughout the week, while minimum temperatures showed a slight increasing trend across most parts of the country, with minor day-to-day fluctuations observed in some areas. Heavy rainfall was recorded in several regions during the reporting period. The table below presents the observed real-time rainfall and temperature data collected from the Regional Meteorological Centres over the past week.

Station		31 Jul	01 Aug	02 Aug	03 Aug	04 Aug	05 Aug	06 Aug
Thimphu	Tmax (°C)	25.5	23.5	25.0	24.0	25.5	22.0	27.0
	Tmin (°C)	16.0	13.5	16.5	16.0	16.5	16.0	13.5
	Rain (mm)	0.2	1.2	2.3	3.4	26.8	5.2	0.3
Dagana	Tmax (°C)	24.5	23.5	22.5	22.0	26.5	22.5	28.0
	Tmin (°C)	19.5	19.5	19.0	20.0	20.0	20.0	18.5
	Rain (mm)	0.2	2.2	10.8	1.6	34.4	15.4	0.0
Bumthang	Tmax (°C)	23.0	20.5	24.0	22.0	23.5	20.5	24.0
	Tmin (°C)	16.0	15.5	16.0	16.0	16.0	15.5	15.5
	Rain (mm)	0.1	0.4	2.4	3.8	16.5	3.3	1.5
S/Jongkhar	Tmax (°C)	30.0	28.0	31.0	30.5	30.0	28.0	32.0
	Tmin (°C)	24.5	23.0	23.0	23.5	23.5	23.5	23.0
	Rain (mm)	5.8	4.6	1.6	0.6	54.0	1.0	0.0
Gasa	Tmax (°C)	20.0	16.0	19.0	20.0	19.5	16.5	19.0
	Tmin (°C)	15.0	15.0	14.0	15.0	14.0	15.0	14.5
	Rain (mm)	17.0	24.0	12.4	17.0	16.2	18.0	12.6



ལྷོ། རྒྱལ་ཡོངས་ཚུད་ཕྱད་དང་གནམ་གཤིས་རིག་པའི་ལྷོ་བ།

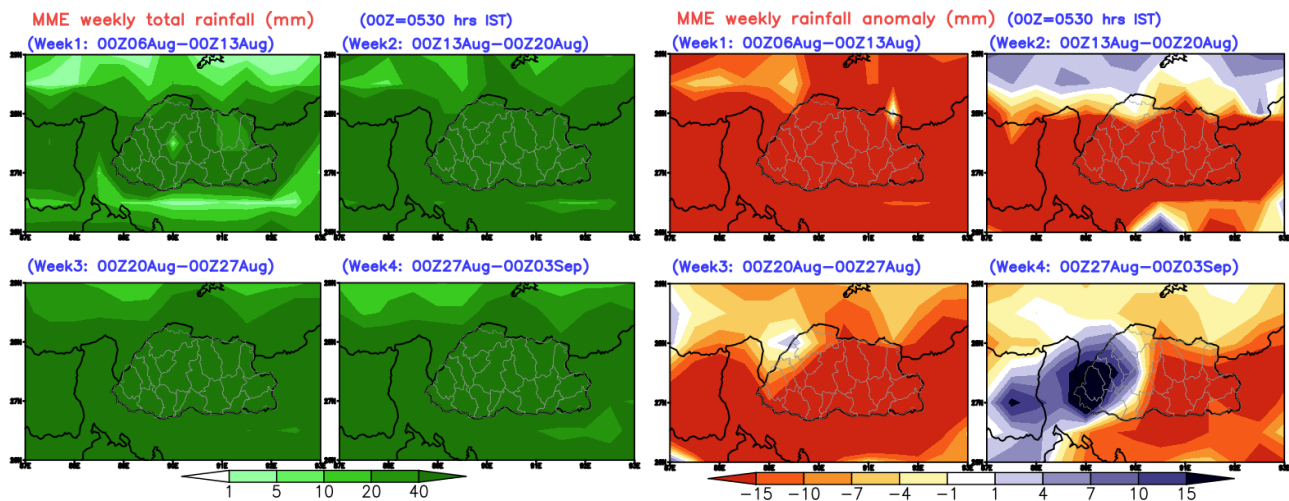
NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
THIMPHU: BHUTAN

"Centre of Excellence in Hydrology, Meteorology and Cryosphere Science and Services"



Weekly forecast for Bhutan

1. Rainfall Prediction



Week 1 (07 Aug - 13 Aug), Week 2 (14 Aug - 20 Aug) and Week 3 (21 Aug - 27 Aug)

Below-normal rainfall conditions are likely to prevail across much of the country during the first three weeks.

Week 4 (28 Aug - 3 Sep)

Above-normal rainfall is likely over the western parts of the country, while below-normal rainfall is expected across most other parts of the country during the fourth week.



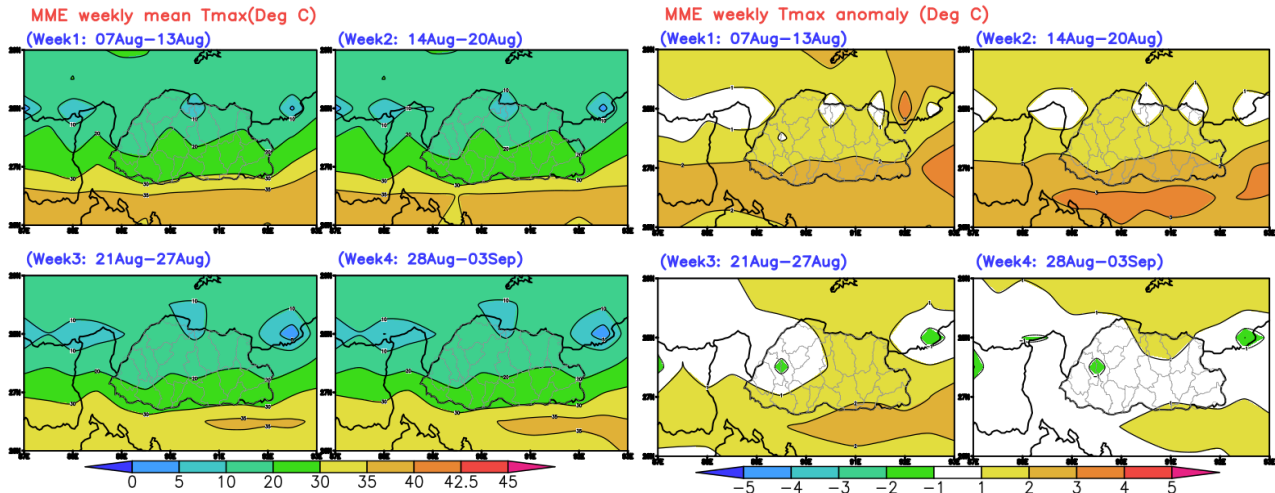
ཨཱ། རྒྱལ་ཡོངས་ཚུད་ཕྱད་དང་གནམ་གཤིས་རིག་པའི་ལྷེ་བ།

NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
THIMPHU: BHUTAN

"Centre of Excellence in Hydrology, Meteorology and Cryosphere Science and Services"



2. Maximum Temperature Prediction



Week 1 (07 Aug - 13 Aug) and Week 2 (14 Aug - 20 Aug)

Above-normal maximum temperatures are likely to prevail across the southern belt of the country over the next two weeks, while temperatures in the remaining parts of the country are expected to remain near normal.

Week 3 (21 Aug - 27 Aug) and Week 4 (28 Aug - 3 Sep)

Near-normal maximum temperatures are likely to prevail throughout the country during the final two weeks.



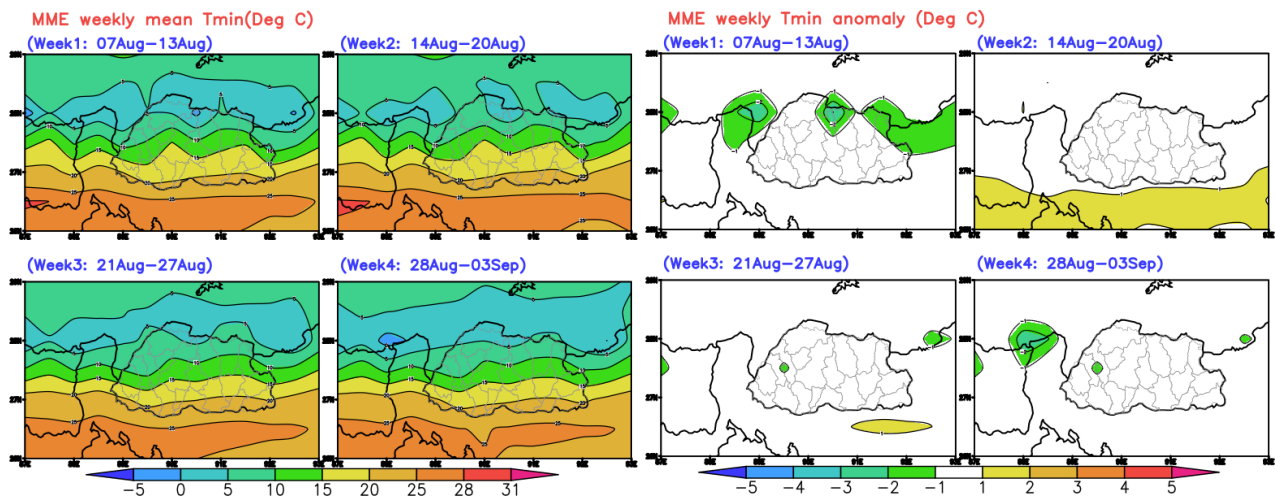
ཨཱ། རྒྱལ་ཡོངས་ཆུ་དབྱུང་དང་གནམ་གཤིས་རིག་པའི་ལྷན་ཁག།

NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
THIMPHU: BHUTAN

"Centre of Excellence in Hydrology, Meteorology and Cryosphere Science and Services"



3. Minimum Temperature Prediction



Week 1 (07 Aug - 13 Aug), Week 2 (14 Aug - 20 Aug), Week 3 (21 Aug - 27 Aug) and Week 4 (28 Aug - 3 Sep)

Minimum temperatures are expected to remain near normal over most parts of the country during the coming weeks.

Summary

- Below-normal rainfall is expected across much of the country during the first three weeks. During the fourth week, above-normal rainfall is likely over the western parts of the country, while most other regions are expected to experience below-normal rainfall.
- Above-normal maximum temperatures are expected over the southern belt of the country during the first two weeks, with near-normal maximum temperatures prevailing elsewhere and across the entire country during the final two weeks.
- Minimum temperatures are expected to remain near normal over most parts of the country during the coming weeks.



ཨཱ། རྒྱལ་ཡོངས་ཚུད་ཕྱད་དང་གནམ་གཤིས་རིག་པའི་རྩེ་བ།

NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
THIMPHU: BHUTAN

"Centre of Excellence in Hydrology, Meteorology and Cryosphere Science and Services"



Classification of rainfall for 24 Hours

No rainfall	0.0 mm
Very light rainfall	0.1 to 0.9 mm
Light rainfall	1.0 to 10.0 mm
Moderate rainfall	11.0 to 30.0 mm
Heavy rainfall	31.0 to 70.0 mm
Very heavy rainfall	71.0 to 150.0 mm
Extremely heavy rainfall	Equal or more than 151.0 mm