



༄༅། རྒྱལ་ཡོངས་ཚུ་དབྱུང་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”*



30 January, 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.



# 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"*



## Observed weather over last week

Most of the stations across the country showed constant maximum temperature and minimum temperature throughout the week. Light rainfall was recorded in Gasa. The table below displays observed real time rain and temperature data from regional meteorological stations over the last week.

Station		23 Jan	24 Jan	25 Jan	26 Jan	27 Jan	28 Jan	29 Jan
Babesa	Tmax (°C)	16.0	17.0	15.0	15.5	16.0	14.5	17.0
	Tmin (°C)	-4.0	-3.0	-4.0	-1.0	-3.5	-2.5	-4.0
	Rain (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dagana	Tmax (°C)	21.5	21.0	20.0	19.5	21.5	21.0	21.0
	Tmin (°C)	7.0	7.0	7.0	7.0	7.5	8.5	7.5
	Rain (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chamkhar	Tmax (°C)	15.5	15.5	14.0	13.0	16.0	16.0	13.5
	Tmin (°C)	-4.0	-1.0	-1.5	-0.5	-1.5	1.5	2.0
	Rain (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deothang	Tmax (°C)	26.0	26.0	24.5	25.0	25.5	26.5	25.5
	Tmin (°C)	13.0	12.5	12.5	13.0	12.5	13.5	13.5
	Rain (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasa	Tmax (°C)	15.0	14.5	13.0	12.0	14.5	12.0	12.0
	Tmin (°C)	-1.0	1.0	-1.0	1.5	-2.0	0.0	1.0
	Rain (mm)	0.0	0.0	3.2	0.0	0.0	2.0	0.0



༄༅། རྒྱལ་ཡོངས་ཚུད་ཕྱད་དང་གནམ་གཤིས་རིག་པའི་སྡེ་བ།།

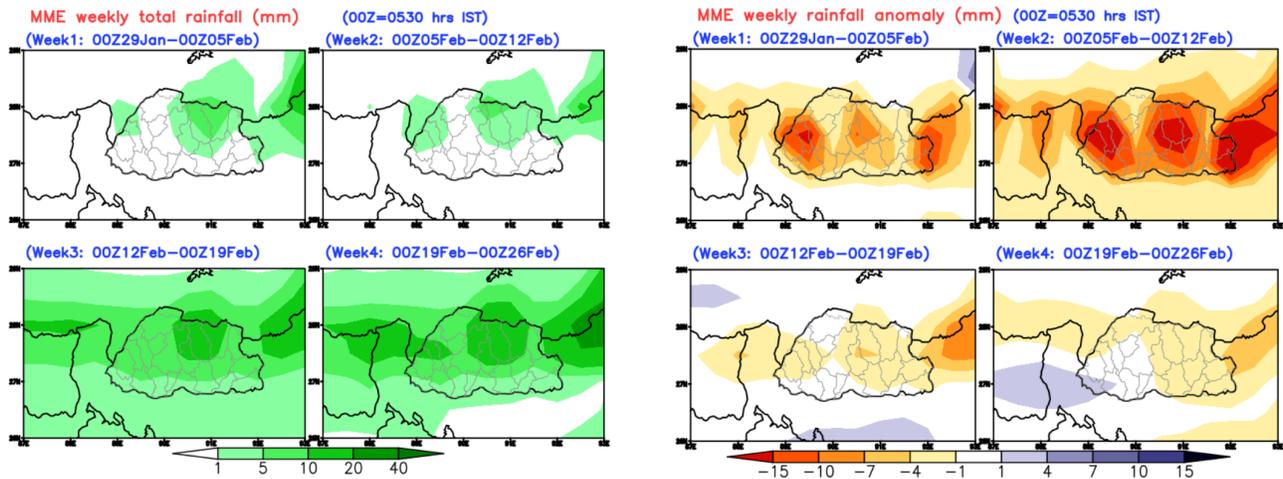
NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY  
THIMPHU: BHUTAN

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



## Weekly forecast for Bhutan

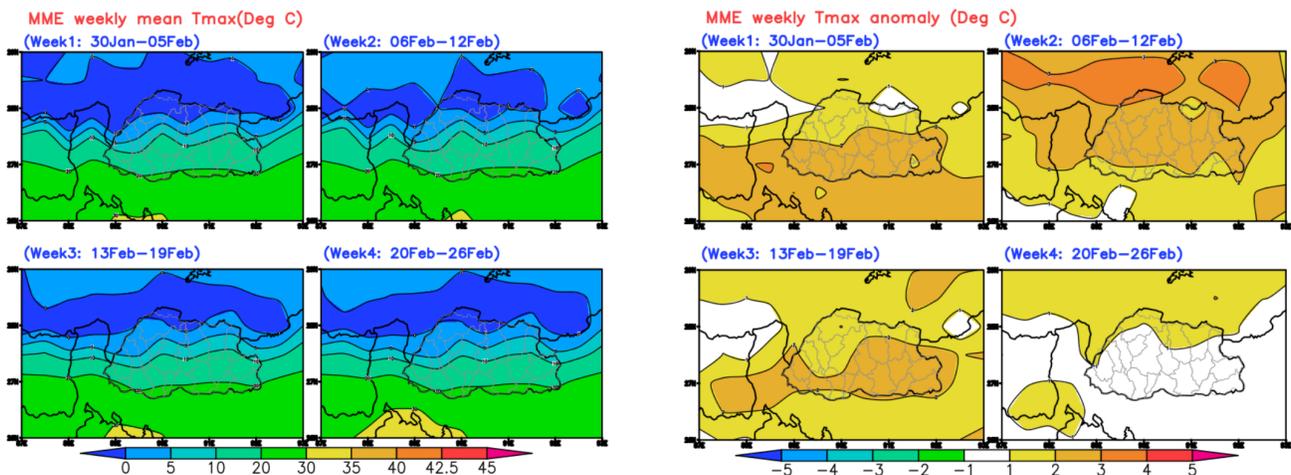
### 1. Rainfall Prediction



Week 1 (29 Jan - 05 Feb), Week 2 (05 Feb - 12 Feb), Week 3 (12 Feb - 19 Feb) and Week 4 (19 Feb - 26 Feb)

The country is expected to be dry in the next three weeks. Compared to the climatology, the country is expected to be below normal rainfall for the next four weeks.

### 2. Maximum Temperature Prediction





༄༅། རྒྱལ་ཡོངས་ཚུན་ཕྱད་དང་གནམ་གཤིས་རིག་པའི་ལྷན་ཁག།

NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY  
THIMPHU: BHUTAN

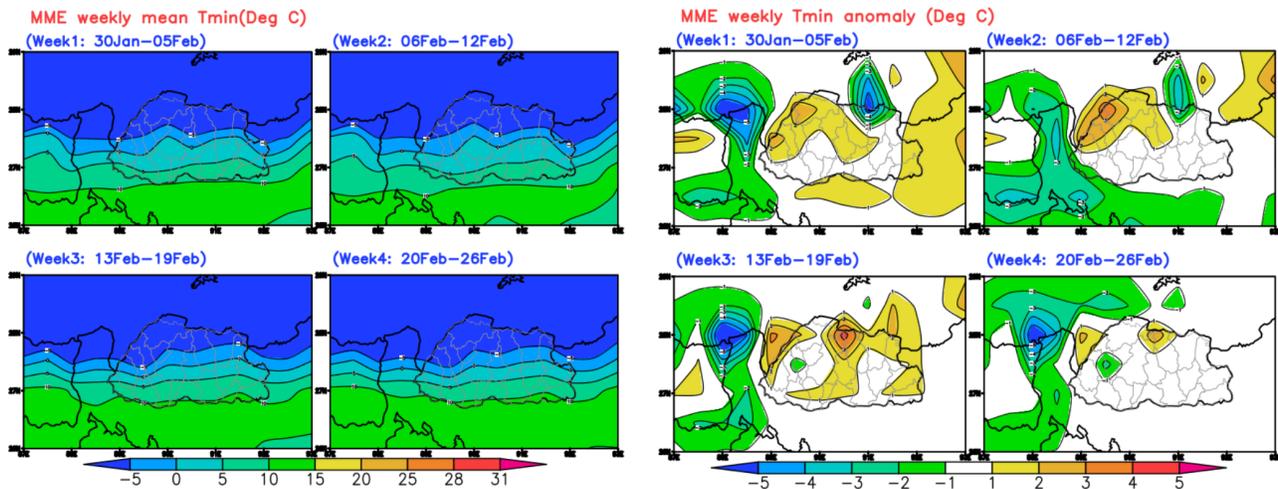
*"Centre of Excellence in Hydrology, Meteorology and Cryosphere Science and Services"*



Week 1 (29 Jan - 05 Feb), Week 2 (05 Feb - 12 Feb), Week 3 (12 Feb - 19 Feb) and Week 4 (19 Feb - 26 Feb)

Above normal maximum temperature throughout the region for the next four weeks.

### 3. Minimum Temperature Prediction



Week 1 (22 Jan - 29 Jan), Week 2 (29 Jan - 05 Feb), Week 3 (05 Feb - 12 Feb) and Week 4 (12 Feb - 19 Feb)

Above normal minimum temperature in northern parts and normal minimum temperature in the rest of the country.



༄༅། 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”*



## Summary

- The country is expected to be dry in the next three weeks. Compared to the climatology, the country is expected to be below normal rainfall for the next four weeks.
- Above normal maximum temperature throughout the region for the next four weeks.
- Above normal minimum temperature in northern parts and normal minimum temperature in the rest of the country.

## 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