



༄༅། 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"



5 June, 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་སློབ་ཤེས་ལྷན་ཁག།

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 and minimum temperatures remained relatively consistent across most parts of the country throughout the week, with slight fluctuations observed on some days. Light rainfall was recorded across a few regions. The table below presents the observed real-time rainfall and temperature data from regional meteorological centres over the past week.

Station		29 May	30 May	31 May	01 Jun	02 Jun	03 Jun	04 Jun
Thimphu	Tmax (°C)	24.0	22.5	25.0	26.0	25.5	25.5	24.5
	Tmin (°C)	10.0	10.0	9.0	13.5	10.0	13.0	12.5
	Rain (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dagana	Tmax (°C)	26.5	25.0	28.0	28.0	28.0	27.0	26.5
	Tmin (°C)	15.0	18.0	17.0	18.0	17.5	18.5	18.0
	Rain (mm)	0.0	0.0	0.0	0.0	0.0	3.4	1.0
Bumthang	Tmax (°C)	23.0	21.5	25.0	25.0	26.0	24.5	22.0
	Tmin (°C)	10.5	7.0	10.5	13.0	13.0	14.0	14.5
	Rain (mm)	0.0	0.0	0.0	0.0	0.0	5.1	2.7
S/Jongkhar	Tmax (°C)	24.0	26.0	25.0	25.0	25.0	24.5	24.5
	Tmin (°C)	15.0	16.0	18.0	18.0	19.0	20.0	18.5
	Rain (mm)	0.0	0.0	0.0	0.0	0.0	0.0	12.4
Gasa	Tmax (°C)	20.0	18.5	24.5	24.0	25.0	21.0	23.0
	Tmin (°C)	9.5	10.0	9.0	10.0	11.0	13.0	13.0
	Rain (mm)	3.2	0.0	0.0	0.0	0.0	6.2	8.0



༄༅། རྒྱལ་ཡོངས་ཚུ་དབྱུང་དང་གནམ་གཤིས་རིག་པའི་ལྷེ་བ།།

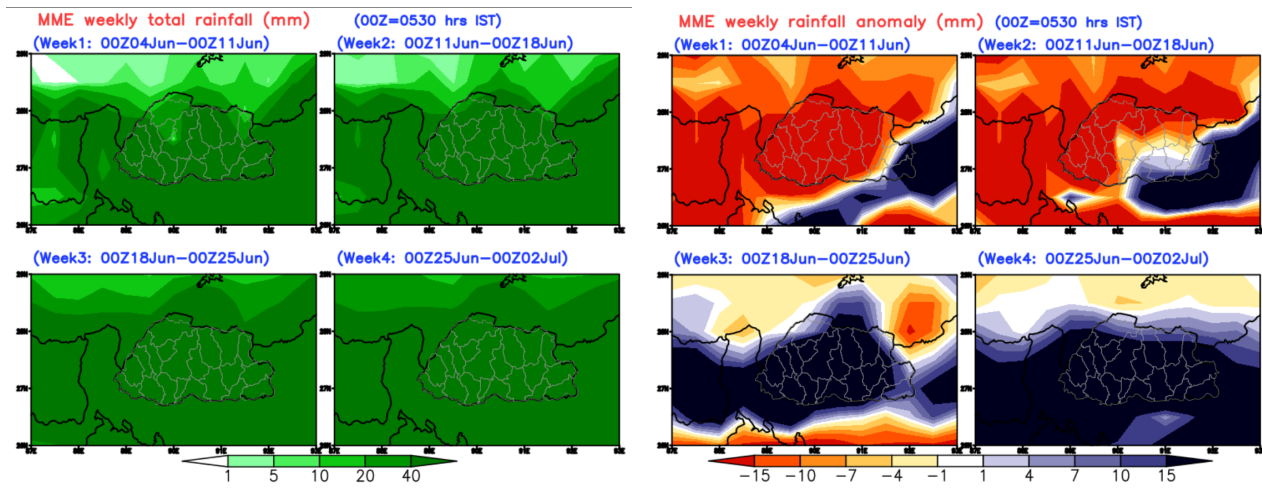
NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
THIMPHU: BHUTAN

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



Weekly forecast for Bhutan

1. Rainfall Prediction



Week 1 (05 Jun - 11 Jun) and Week 2 (12 Jun - 18 Jun)

Below-normal rainfall is expected over most parts of the country during the first two weeks, with some rainfall likely over the southeastern region in the second week.

Week 3 (19 Jun - 25 Jun) and Week 4 (26 Jun - 02 Jul)

Above-normal rainfall is likely across most parts of the country during the later weeks.



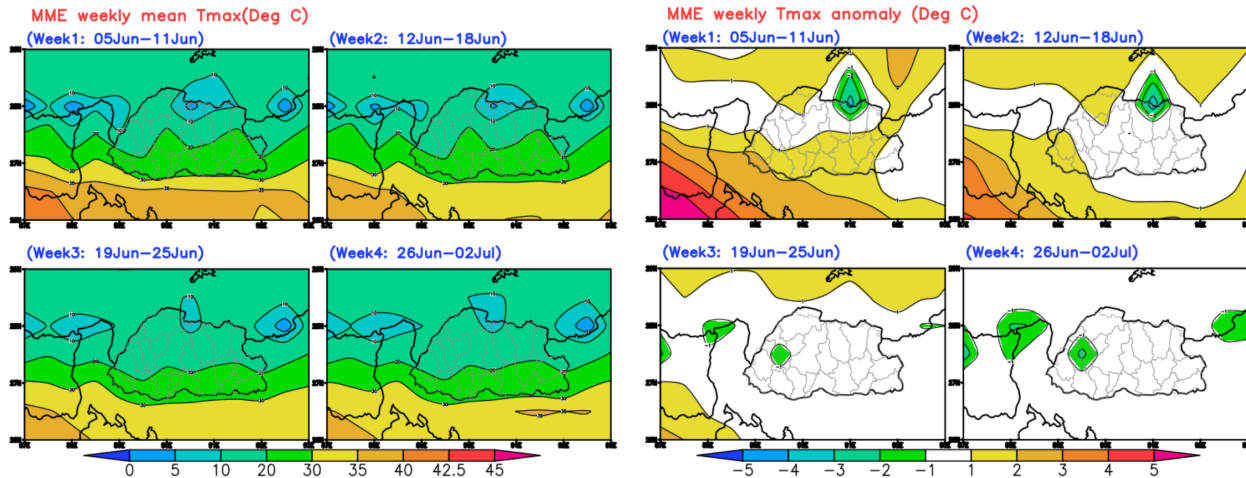
༄༅། རྒྱལ་ཡོངས་ཚུད་ཕྱད་དང་གནམ་གཤིས་རིག་པའི་སྡེ་བ།

NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
THIMPHU: BHUTAN

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



2. Maximum Temperature Prediction



Week 1 (05 Jun - 11 Jun), Week 2 (12 Jun - 18 Jun), Week 3 (19 Jun - 25 Jun) and Week 4 (26 Jun - 02 Jul)

Above-normal maximum temperatures are likely over the southern, southwestern, and some northern parts of the country during the first two weeks, before returning to near-normal conditions in the later weeks.



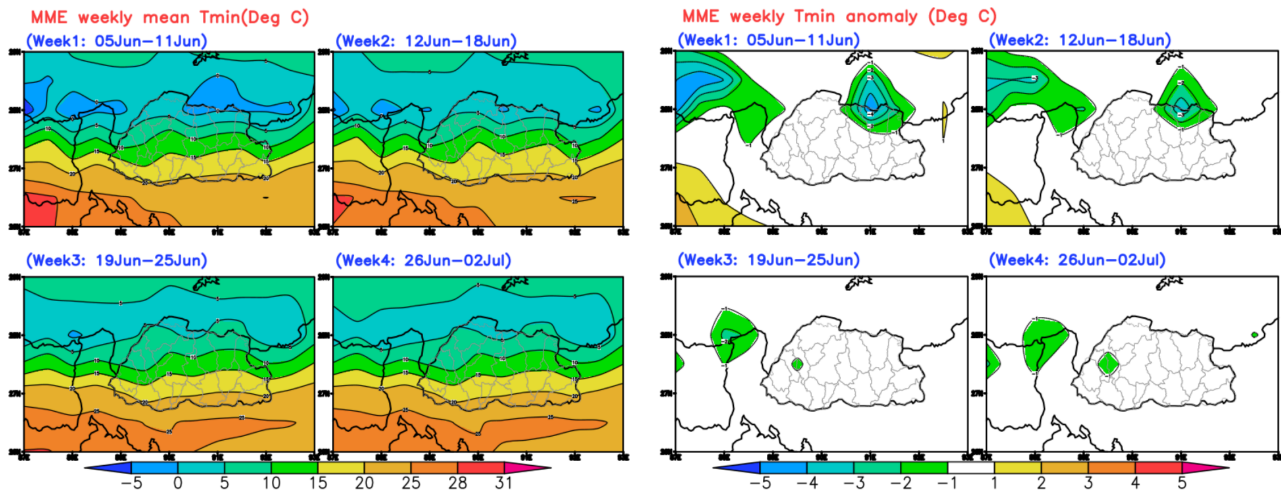
༄༅། རྒྱལ་ཡོངས་ཚུན་ཕྱད་དང་གནམ་གཤིས་རིག་པའི་སྡེ་བ།

NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
THIMPHU: BHUTAN

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



3. Minimum Temperature Prediction



Week 1 (05 Jun - 11 Jun), Week 2 (12 Jun - 18 Jun), Week 3 (19 Jun - 25 Jun) and Week 4 (26 Jun - 02 Jul)

Near-normal minimum temperatures are likely during the upcoming weeks, although some isolated areas may experience slightly below-normal minimum temperatures.

Summary

- Below-normal rainfall is expected over most parts of the country during the first two weeks, followed by above-normal rainfall across most areas in the later weeks.
- Above-normal maximum temperatures are likely over the southern, southwestern, and some northern parts of the country during the first two weeks, before returning to near-normal conditions in the later weeks.
- Near-normal minimum temperatures are likely during the upcoming weeks, although some isolated areas may experience slightly below-normal minimum temperatures.



༄༅། རྒྱལ་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”



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