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NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
THIMPHU: BHUTAN

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



16 October, 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.



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Observed weather over last week

Maximum temperatures remained relatively stable during the reporting period, while minimum temperatures showed a slight decline. Moderate rainfall was recorded in a few regions. The table below presents a summary of real-time rainfall and temperature observations reported by the Regional Meteorological Centres over the past week.

Station		09 Oct	10 Oct	11 Oct	12 Oct	13 Oct	14 Oct	15 Oct
Thimphu	Tmax (°C)	15	14	21.5	23	23	22	20
	Tmin (°C)	14	10.5	7	4.5	5	3	3.5
	Rain (mm)	0	6.3	0	0	0	0	0
Dagana	Tmax (°C)	20	19.5	28	29	29	28.5	28
	Tmin (°C)	15	14.5	13.5	14	14.5	14	13.5
	Rain (mm)	0.4	0	0	0	0	0	0
Bumthang	Tmax (°C)	15	12.5	21	21.5	21	21	20
	Tmin (°C)	9.5	9.5	7	9	7.5	4	3
	Rain (mm)	8.3	4.4	0	0	0	0	0
S/Jongkhar	Tmax (°C)	28.5	30	31	32.5	31.5	31	31
	Tmin (°C)	18	19.5	19	19	19	18.5	18
	Rain (mm)	0	0	0	0	0	0	0
Gasa	Tmax (°C)	13	12	17	19	19.5	20	17
	Tmin (°C)	7	7	6	6	6	6	6
	Rain (mm)	14.6	5.8	0	0	0	0	1.8



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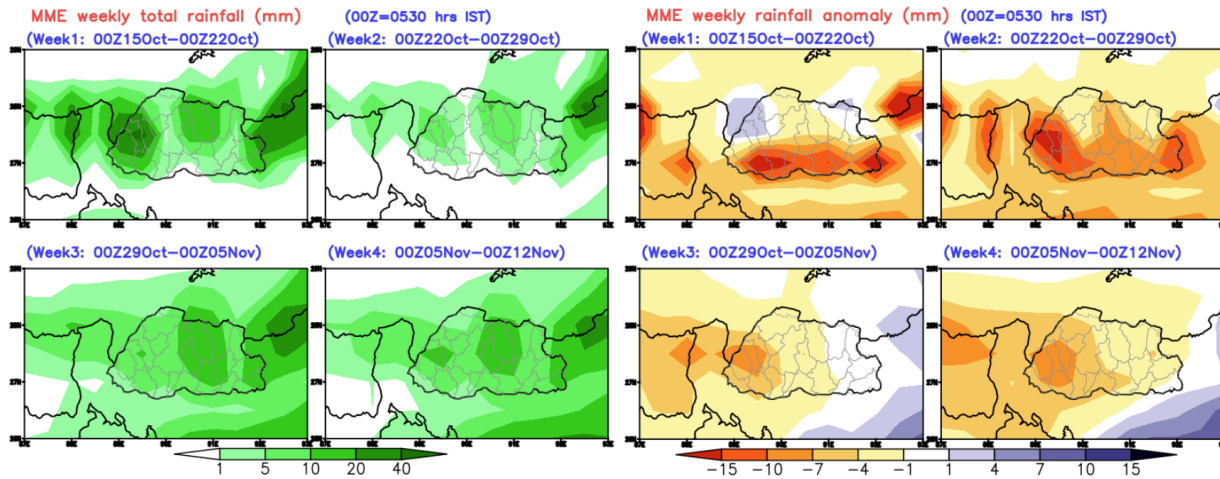
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Weekly forecast for Bhutan

1. Rainfall Prediction



Week 1 (16 Oct - 22 Oct)

Below normal rainfall is expected over the country, with above normal rainfall over isolated western parts.

Week 2 (23 Oct - 29 Oct)

Below normal rainfall is expected over the country.

Week 3 (30 Oct - 05 Nov)

Below normal rainfall is expected over the country.

Week 4 (06 Nov - 12 Nov)

Below normal rainfall is expected over the country.



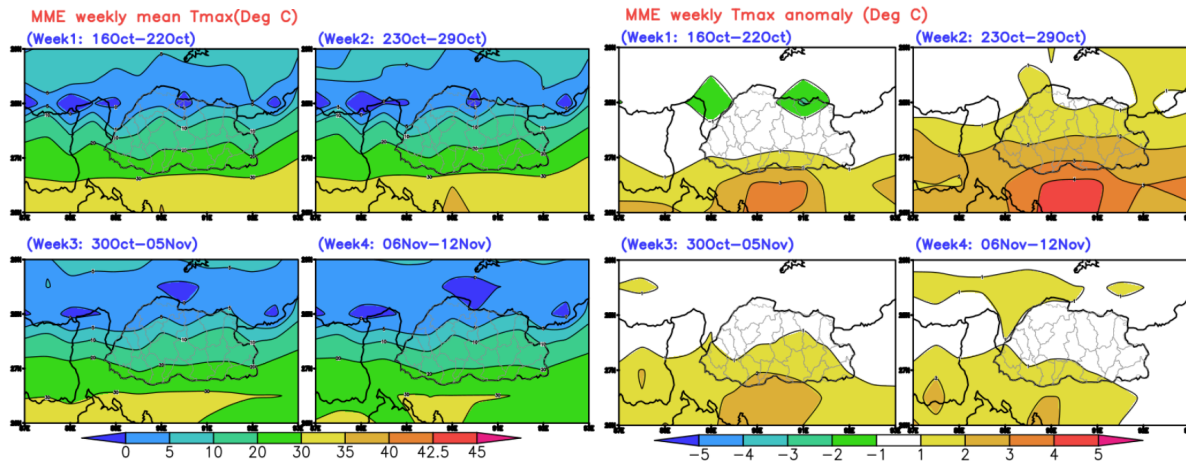
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2. Maximum Temperature Prediction



Week 1 (16 Oct - 22 Oct)

Normal temperature is expected over the country, with above normal over southern parts and below normal over isolated northern parts.

Week 2 (23 Oct - 29 Oct)

Normal temperature is expected over the country, with above normal over southern parts.

Week 3 (30 Oct - 05 Nov)

Normal temperature is expected over the country, with above normal over southern parts.

Week 4 (06 Nov - 12 Nov)

Near normal temperature is expected over the country.



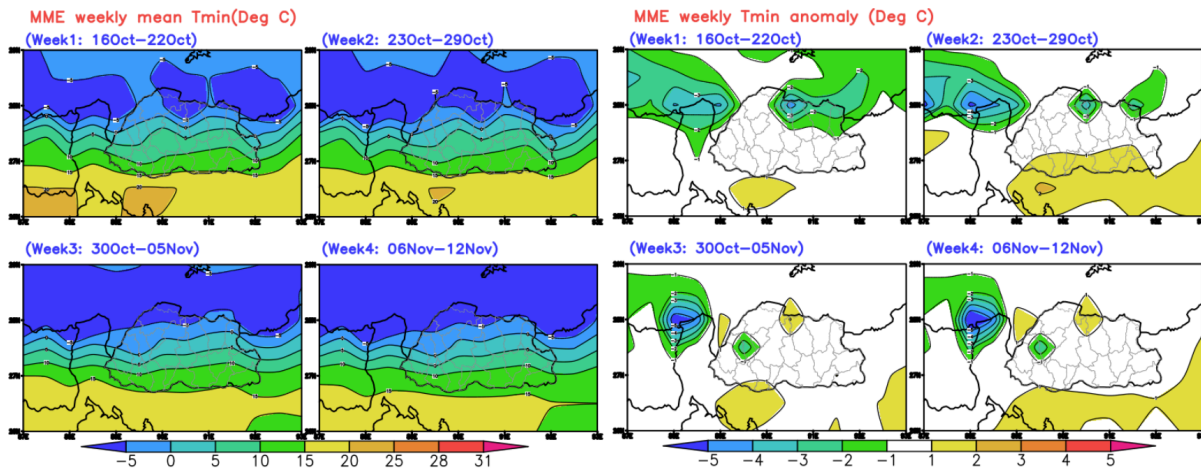
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3. Minimum Temperature Prediction



Week 1 (16 Oct - 22 Oct)

Normal temperature is expected over the country, with below normal over isolated northern and north-eastern parts.

Week 2 (23 Oct - 29 Oct)

Normal temperature is expected over the country, with above normal over southern parts and below normal over isolated northern parts.

Week 3 (30 Oct - 05 Nov)

Normal temperature is expected over the country, with below normal over isolated western parts and above normal over isolated northern parts.

Week 4 (06 Nov - 12 Nov)

Normal temperature is expected over the country, with below normal over isolated western parts and above normal over isolated northern parts.



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Summary

- Mostly below-normal rainfall is expected across the country throughout all four weeks, with isolated above-normal rainfall over western parts during the first week.
- Normal temperatures are expected across the country during the first three weeks, with above-normal temperatures over southern parts and isolated below-normal temperatures over northern parts. Near-normal temperatures are expected across the country during the fourth week.
- Normal temperatures are expected across the country throughout all four weeks, with isolated below-normal temperatures over northern, north-eastern and western parts, and above-normal temperatures over southern and isolated northern parts during certain weeks.

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