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NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
THIMPHU: BHUTAN

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



25 September, 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 exhibited an upward trend over the past week, while minimum temperatures remained largely stable, with only minor day-to-day fluctuations in some areas. Heavy rainfall was recorded in a few regions during the reporting period. The table below summarizes real-time rainfall and temperature observations collected from the Regional Meteorological Centres over the past week.

Station		18 Sep	19 Sep	20 Sep	21 Sep	22 Sep	23 Sep	24 Sep
Thimphu	Tmax (°C)	21	23	23.5	23	22.5	21.5	15
	Tmin (°C)	14	12	15	11.5	13.5	14.5	12.5
	Rain (mm)	0	0	0.5	0	0	15.8	15
Dagana	Tmax (°C)	22	27	28	25	29	24.5	22
	Tmin (°C)	18	16.5	18	18.5	19	18.5	18
	Rain (mm)	2.2	0	0	0	4.6	6	7.4
Bumthang	Tmax (°C)	18	23	24	20.5	20.5	18.5	18
	Tmin (°C)	15	13	11.5	12.5	15	14	12.5
	Rain (mm)	0.9	1.5	0.3	1.7	1.6	11.6	0.6
S/Jongkhar	Tmax (°C)	27.5	32.5	27.5	32	34	29.5	32
	Tmin (°C)	21	21	22	22	22.5	21	21.5
	Rain (mm)	64.8	0	10.8	0	32.8	0	0
Gasa	Tmax (°C)	16	19	21	19	16	16	12.5
	Tmin (°C)	12	12	10	13	13	12.5	12
	Rain (mm)	13.6	5.6	8.4	5.6	14.8	34.2	24.2



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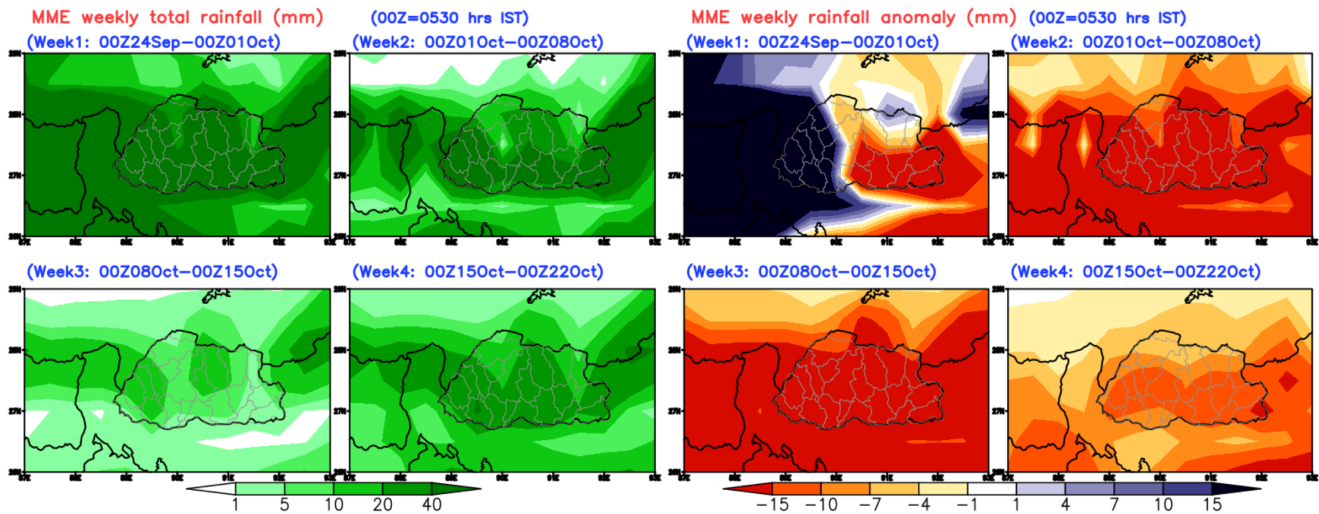
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Weekly forecast for Bhutan

1. Rainfall Prediction



Week 1 (25 Sep - 01 Oct)

Below normal rainfall is expected over the country, with above normal rainfall over western, south-western and isolated north-eastern parts.

Week 2 (02 Oct - 08 Oct)

Below normal rainfall is expected over the country.

Week 3 (09 Oct - 15 Oct)

Below normal rainfall is expected over the country.

Week 4 (16 Oct - 22 Oct)

Near normal rainfall is expected over the country, with below normal rainfall over the south-eastern and south-western parts.



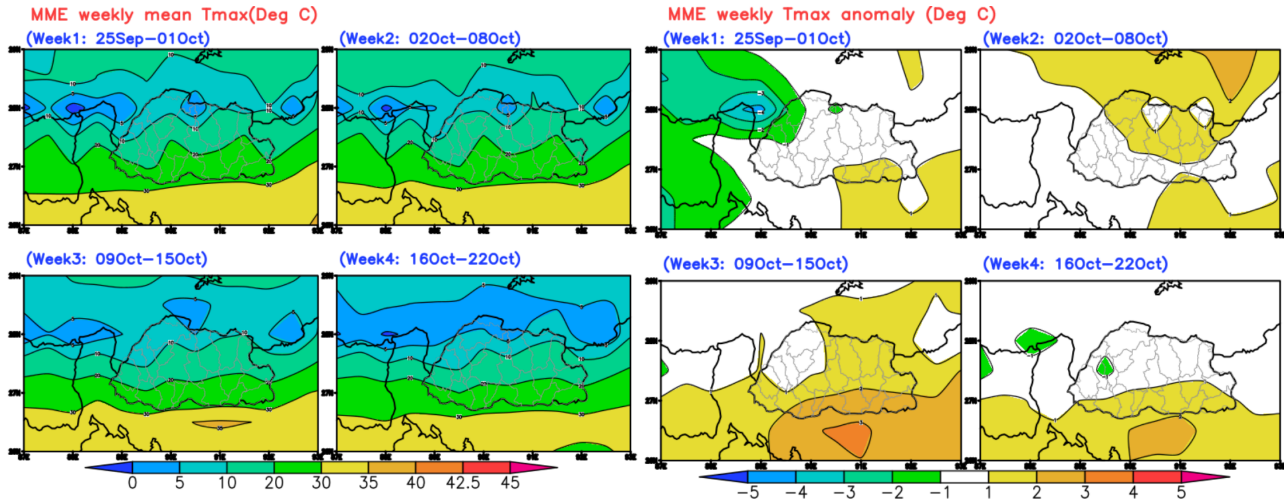
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2. Maximum Temperature Prediction



Week 1 (25 Sep - 01 Oct)

Near normal temperature is expected over the country, with below normal temperature over the isolated north-western parts.

Week 2 (02 Oct - 08 Oct)

Normal temperature is expected over the country.

Week 3 (09 Oct - 15 Oct)

Above normal temperature is expected over the southern parts of the country, with normal temperature over the rest of the places.

Week 4 (16 Oct - 22 Oct)

Normal temperature is expected over the country, with below normal temperature over isolated western parts of the country.



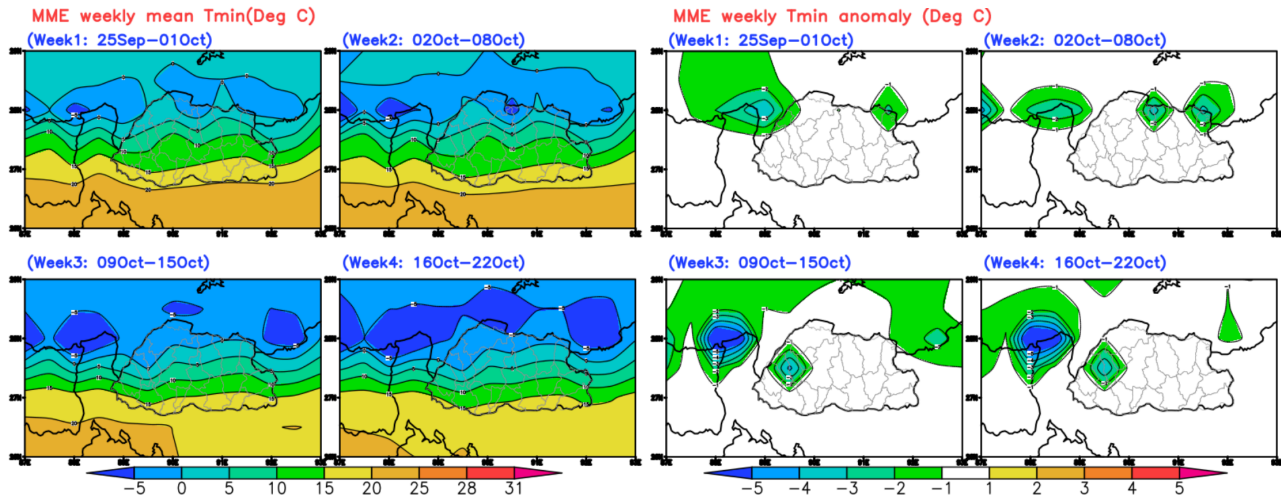
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3. Minimum Temperature Prediction



Week 1 (25 Sep - 01 Oct)

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

Week 2 (02 Oct - 08 Oct)

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

Week 3 (09 Oct - 15 Oct)

Normal temperature is expected over the country, with below normal temperature over isolated western parts of the country.

Week 4 (16 Oct - 22 Oct)

Normal temperature is expected over the country, with below normal temperature over isolated western parts of the country.



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Summary

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

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