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NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
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28 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.



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Observed weather over last week

Both maximum and minimum temperatures remained relatively stable throughout the week, with only minor day-to-day fluctuations observed in some areas. Moderate rainfall was recorded across several regions during the reporting period. The table below presents the real-time rainfall and temperature data collected from the Regional Meteorological Centres over the past week.

Station		21 Aug	22 Aug	23 Aug	24 Aug	25 Aug	26 Aug	27 Aug
Thimphu	Tmax (°C)	25	26	26.5	26	28	26.5	27
	Tmin (°C)	16	15	16	16.5	16	16	16
	Rain (mm)	2.8	3.9	3.8	0	11.8	0.8	1.3
Dagana	Tmax (°C)	28	29.5	29	26	29	28.5	28
	Tmin (°C)	20	19	19	19.5	19.5	19.5	19
	Rain (mm)	0	0.8	0	0	4	0	0.2
Bumthang	Tmax (°C)	24	24.5	25	24	25	23	25
	Tmin (°C)	16	15.5	16.5	16.5	16.5	17.5	17.5
	Rain (mm)	0.9	1.4	0	0	1.8	10.8	1.5
S/Jongkhar	Tmax (°C)	31	32.5	32.5	30.5	30	31.5	31.5
	Tmin (°C)	23.5	23.5	24.5	23.5	23.5	23	23
	Rain (mm)	0	0	0	14	1.4	0	0.4
Gasa	Tmax (°C)	19	21	23	21	22	20	23
	Tmin (°C)	14	14.5	15	15	15	15	15
	Rain (mm)	32.6	44	0	0.8	19	9.4	9.4



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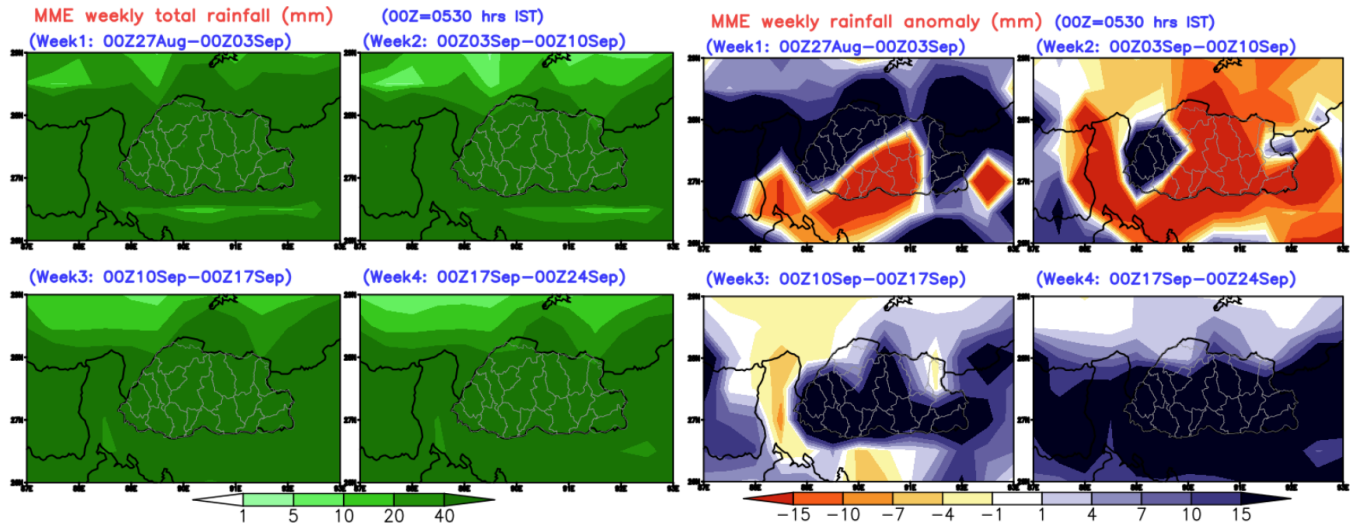
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Weekly forecast for Bhutan

1. Rainfall Prediction



Week 1 (28 Aug - 03 Sep), Week 2 (04 Sep - 10 Sep), Week 3 (11 Sep - 17 Sep) and Week 4 (18 Sep - 24 Sep)

Above-normal rainfall conditions are likely to prevail over the northern, north-eastern, and western parts during the first two weeks, while below-normal conditions are expected over some central and eastern parts during the second week. Above-normal rainfall is expected across most parts of the country during the final two weeks.



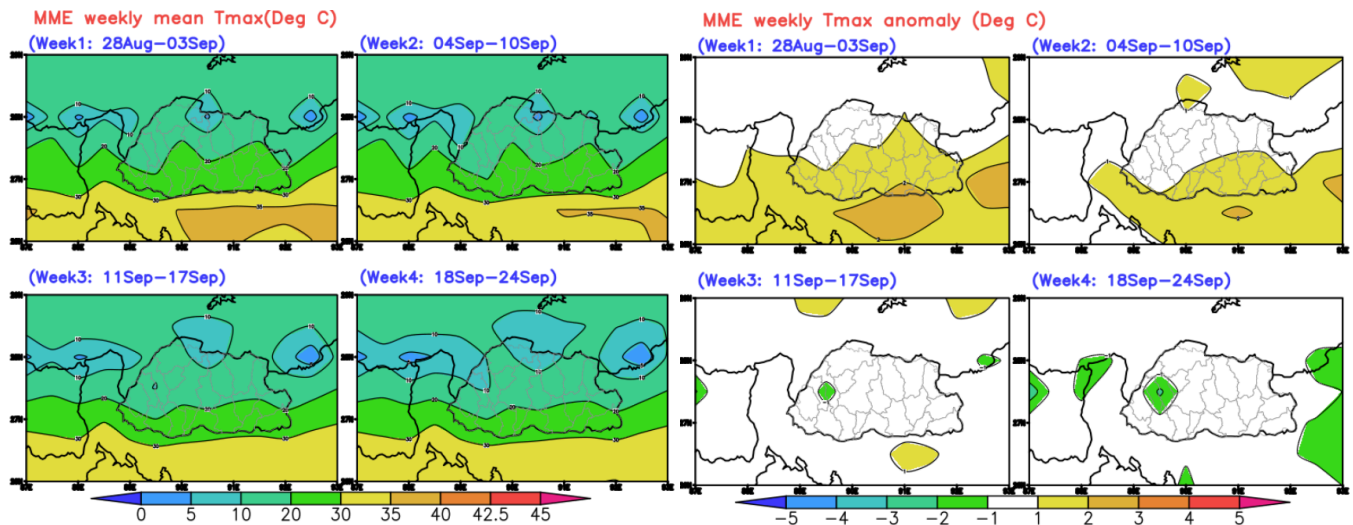
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2. Maximum Temperature Prediction



Week 1 (28 Aug - 03 Sep) and Week 2 (04 Sep - 10 Sep)

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

Week 3 (11 Sep - 17 Sep) and Week 4 (18 Sep - 24 Sep)

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



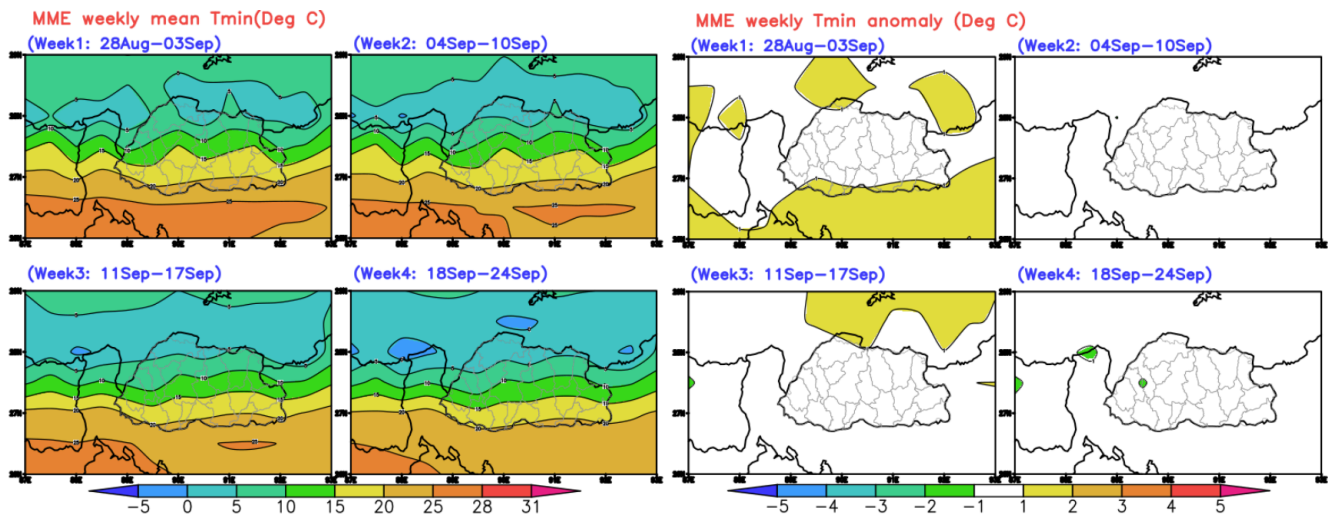
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3. Minimum Temperature Prediction



Week 1 (28 Aug - 03 Sep), Week 2 (04 Sep - 10 Sep), Week 3 (11 Sep - 17 Sep) and Week 4 (18 Sep - 24 Sep)

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

Summary

- Above-normal rainfall is likely over northern, north-eastern, and western parts during the first two weeks, with below-normal conditions over some central and eastern areas in Week 2. Above-normal rainfall is expected across most parts during the final two weeks.
- Above-normal maximum temperatures are likely over the southern belt and parts of the eastern region during the first two weeks, with near-normal conditions elsewhere and countrywide during the final two weeks.
- Minimum temperatures are expected to remain near normal over most parts of the country during the coming weeks.



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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