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NATIONAL CENTRE FOR HYDROLOGY AND METEOROLOGY
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31 July, 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 throughout the week, while minimum temperatures showed a slight increasing trend across most parts of the country, with minor day-to-day fluctuations observed in some areas. Heavy rainfall was recorded in several regions during the reporting period. The table below presents the observed real-time rainfall and temperature data collected from the Regional Meteorological Centres over the past week.

Station		24 Jul	25 Jul	26 Ju;	27 Jul	28 Jul	29 Jul	30 Jul
Thimphu	Tmax (°C)	25.0	27.0	26.5	26.0	26.5	27.0	23.0
	Tmin (°C)	13.5	15.5	15.0	15.0	15.5	16.0	17.0
	Rain (mm)	2.7	0.0	0.0	0.0	0.0	0.0	4.2
Dagana	Tmax (°C)	27.5	28.0	28.5	26.5	26.0	26.0	25.0
	Tmin (°C)	18.0	19.5	19.0	18.5	19.0	19.0	19.0
	Rain (mm)	0.0	0.0	0.5	3.4	0.2	0.5	4.0
Bumthang	Tmax (°C)	24.5	25.5	25.5	24.0	24.0	25.0	21.0
	Tmin (°C)	15.5	16.0	16.5	15.5	15.0	14.5	15.0
	Rain (mm)	3.0	0.0	0.0	3.1	0.0	0.3	6.6
S/Jongkhar	Tmax (°C)	28.0	32.5	32.5	32.0	31.5	30.5	28.5
	Tmin (°C)	23.0	22.5	23.5	23.5	24.0	23.5	23.0
	Rain (mm)	5.8	0.0	0.0	10.6	34.8	55.0	74.2
Gasa	Tmax (°C)	24.0	23.0	21.0	22.0	20.0	21.0	22.0
	Tmin (°C)	14.0	14.0	13.0	14.0	14.0	14.0	14.0
	Rain (mm)	16.2	2.2	2.4	4.4	11.6	5.0	33.2



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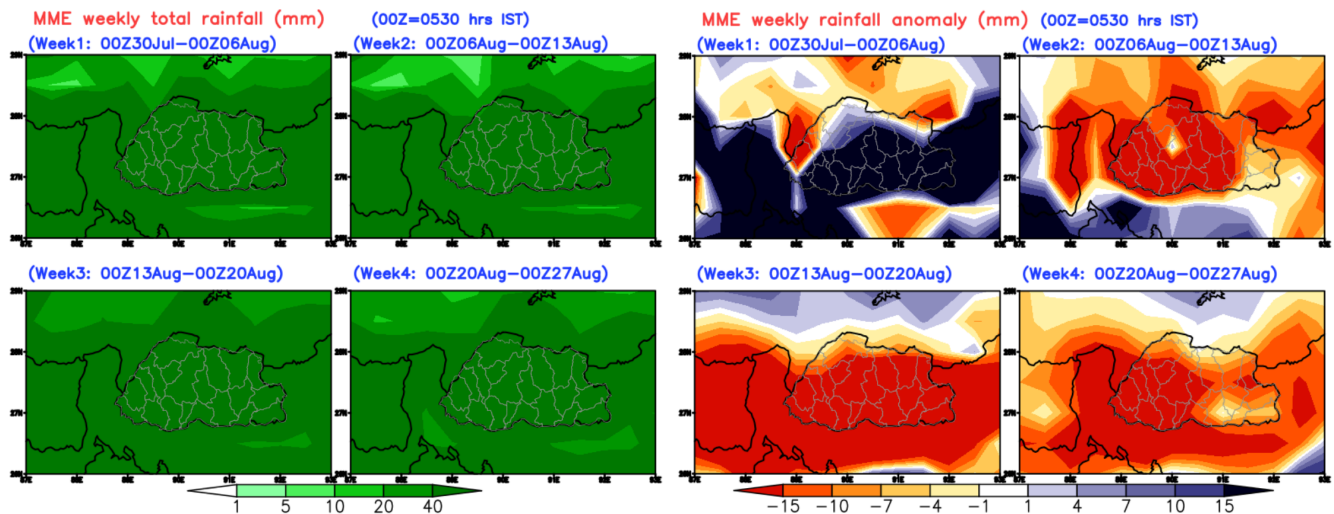
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Weekly forecast for Bhutan

1. Rainfall Prediction



Week 1 (31 Jul - 06 Aug)

Above-normal rainfall conditions are likely to prevail across much of the country during the first week.

Week 2 (07 Aug - 13 Aug), Week 3 (14 Jul - 20 Aug) and Week 4 (21 Aug - 27 Aug)

Below-normal rainfall is likely over most parts of the country during the second, third and fourth weeks.



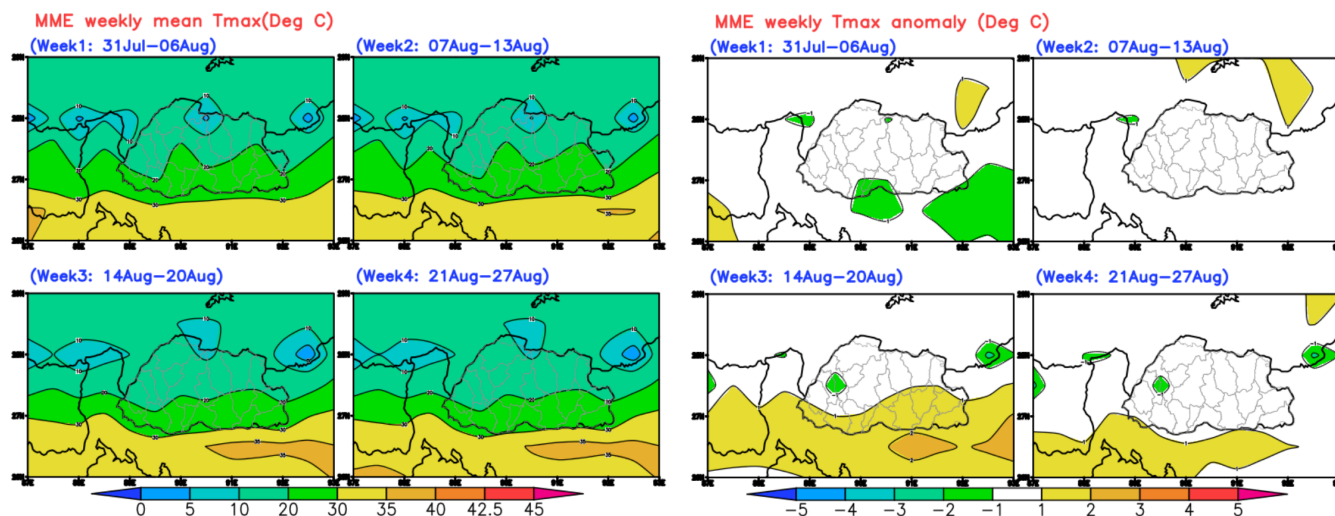
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2. Maximum Temperature Prediction



Week 1 (31 Jul - 06 Aug), Week 2 (07 Aug - 13 Aug), Week 3 (14 Jul - 20 Aug) and Week 4 (21 Aug - 27 Aug)

Near-normal maximum temperatures are likely to prevail across most parts of the country over the coming weeks, with southern regions expected to experience above-normal temperatures toward the end of the week.



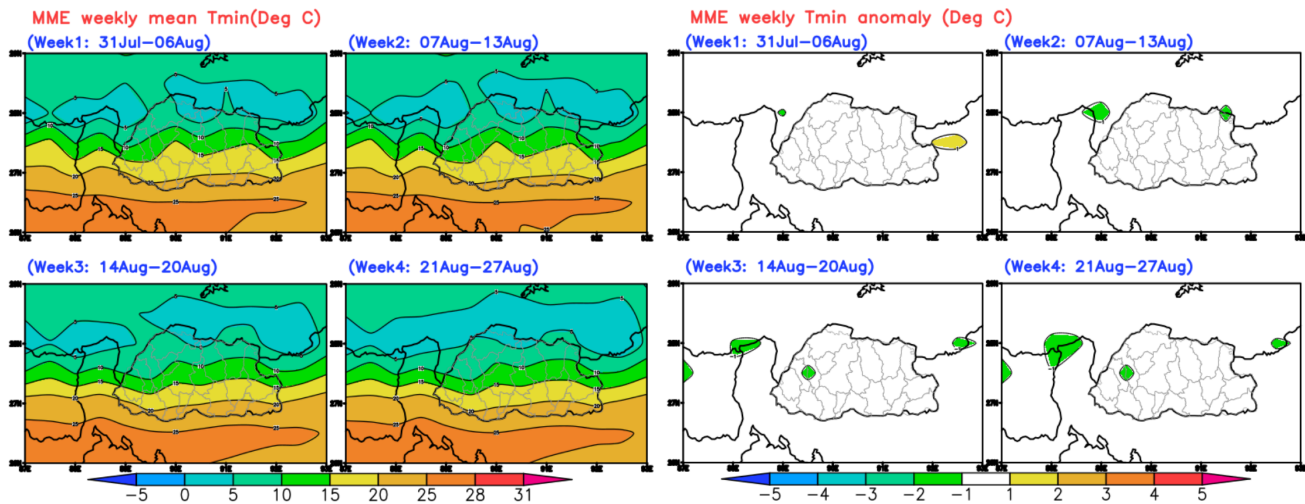
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3. Minimum Temperature Prediction



Week 1 (31 Jul - 06 Aug), Week 2 (07 Aug - 13 Aug), Week 3 (14 Jul - 20 Aug) and Week 4 (21 Aug - 27 Aug)

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

Summary

- Above-normal rainfall is likely across much of the country in the first week, with below-normal rainfall expected over most parts of the country during the remaining three weeks.
- Near-normal maximum temperatures are likely to prevail across most parts of the country over the coming weeks, with southern regions expected to experience above-normal temperatures toward the end of the week.
- 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