

## **Medium Range Weather Forecast for Bhutan**

Medium Range Weather Forecasting (MRWF) provides weather information beyond 72 hours and up to 240 hours (3-10 days). The National Center for Hydrology and Meteorology (NCHM) will issue the **MRWF** every **Friday** on the website [www.nchm.gov.bt](http://www.nchm.gov.bt), comprising of Maximum and Minimum Temperature (deg C) and 24 hour accumulated Rainfall (mm) for next 10 days.

MRWF for Bhutan is prepared with the support from the National Center for Medium Range Weather Forecasting (NCMRWF), Government of India. NCMRWF Unified Model (NCUM) global Numerical Weather Prediction (NWP) system has been used for medium-range weather prediction at NCMRWF since 2012. NCMRWF runs two NCUM models; one global model' which run at a resolution of 12 km with hybrid 4D-Var Data Assimilation(atmosphere) and Extended Kalman Filter based Land Data Assimilation and other Regional model, which runs at a resolution of 4 km with 4D- Var Data Assimilation.

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**Day/Date of issue: Friday, 16 December, 2022**

**Time of issue: 4:00 PM**

**Initial Condition : 16 December, 2022/6:00 BST**

### **Summary: Weather forecast for next 10 days**

#### **1. Temperature**

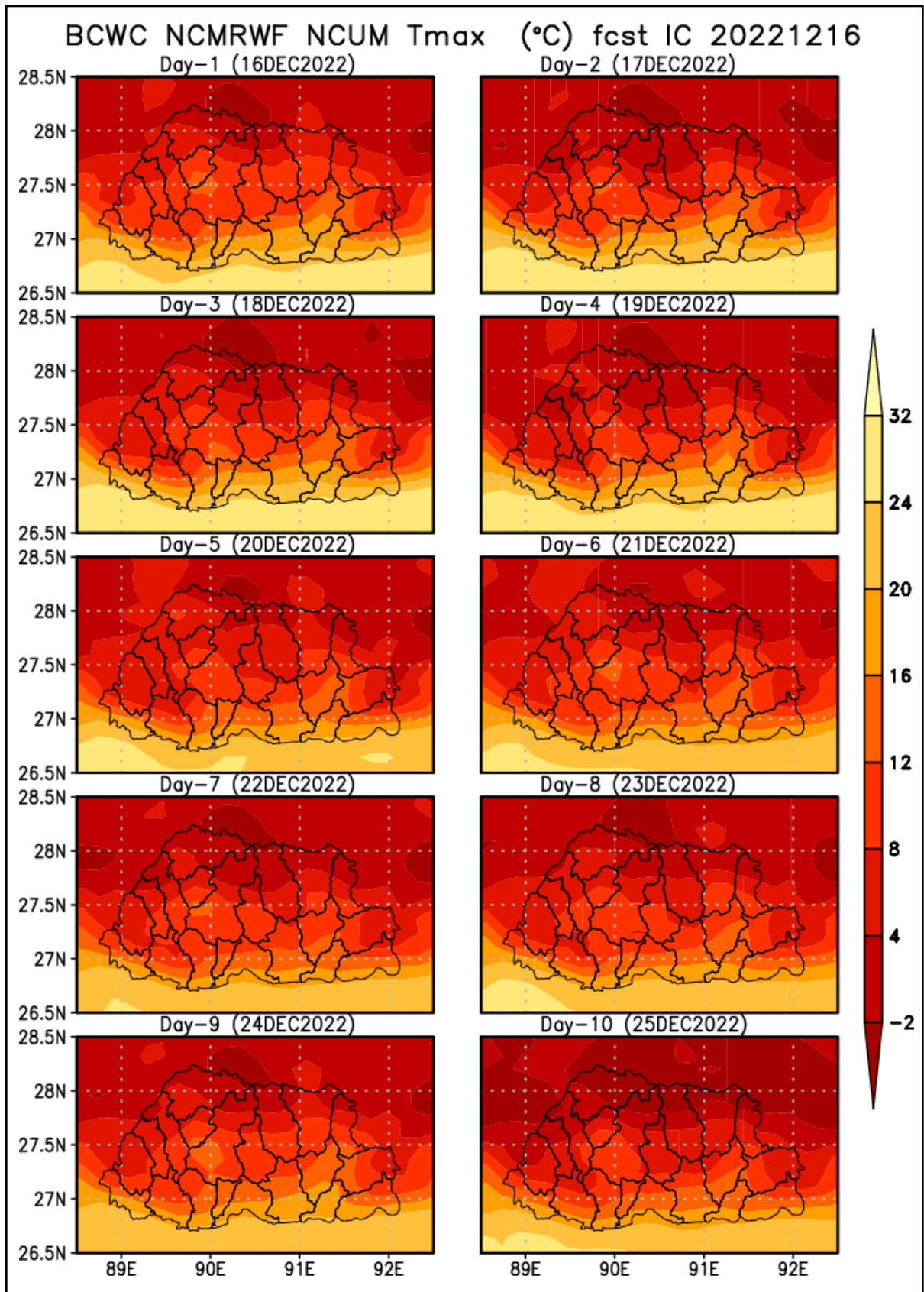
The maximum temperature across the country is likely to increase in the next 10 days. The average maximum temperature in the southern and northern parts of the country are likely to be 16 °C, and 10 °C respectively.

Similarly, the minimum temperature across the country is likely to remain the same in the next 10 days. Southern and northern parts of the country are likely to experience average minimum temperatures of 8 °C and 4°C respectively.

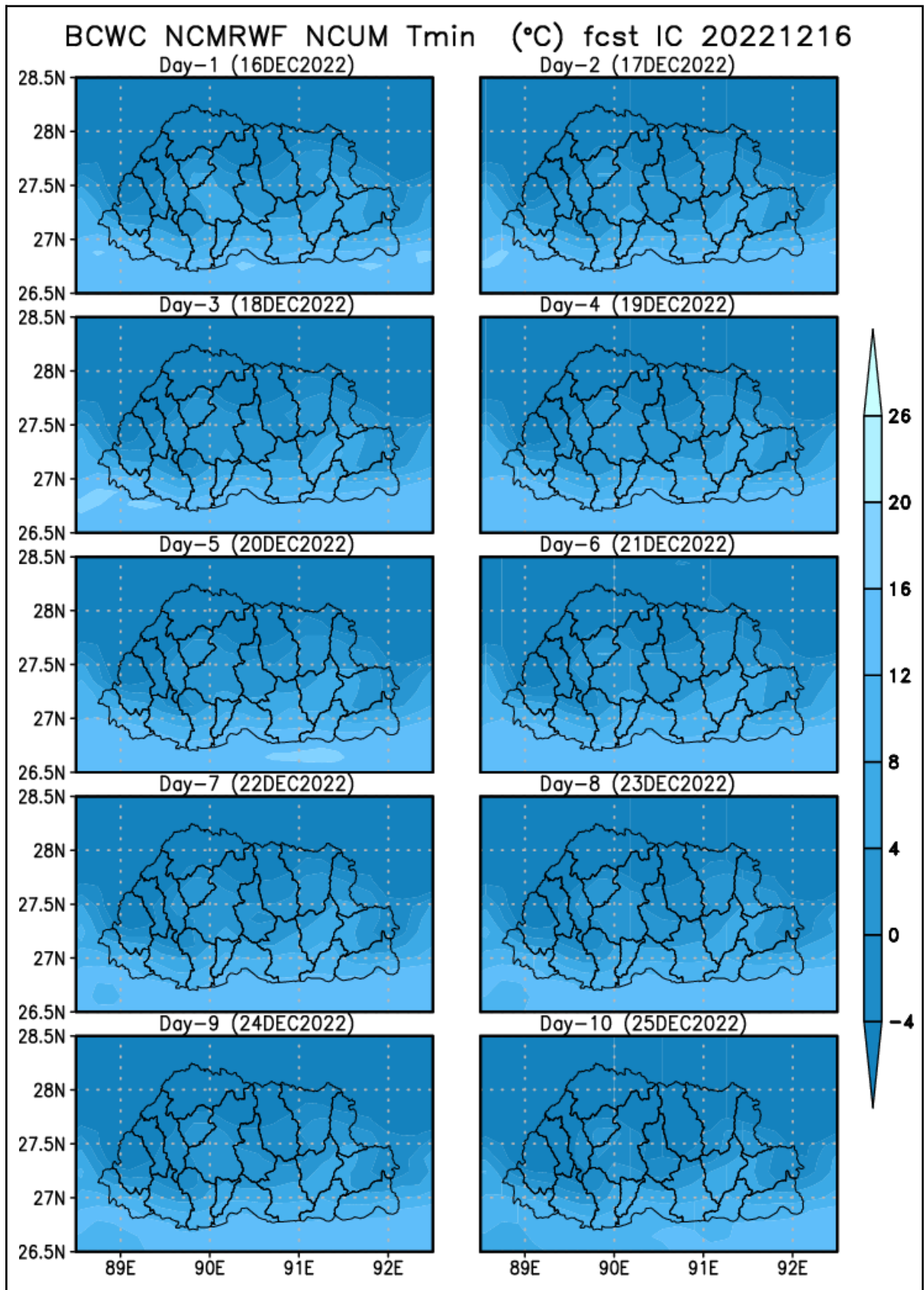
#### **2. Rainfall**

No rain over the country during the next 10 days.

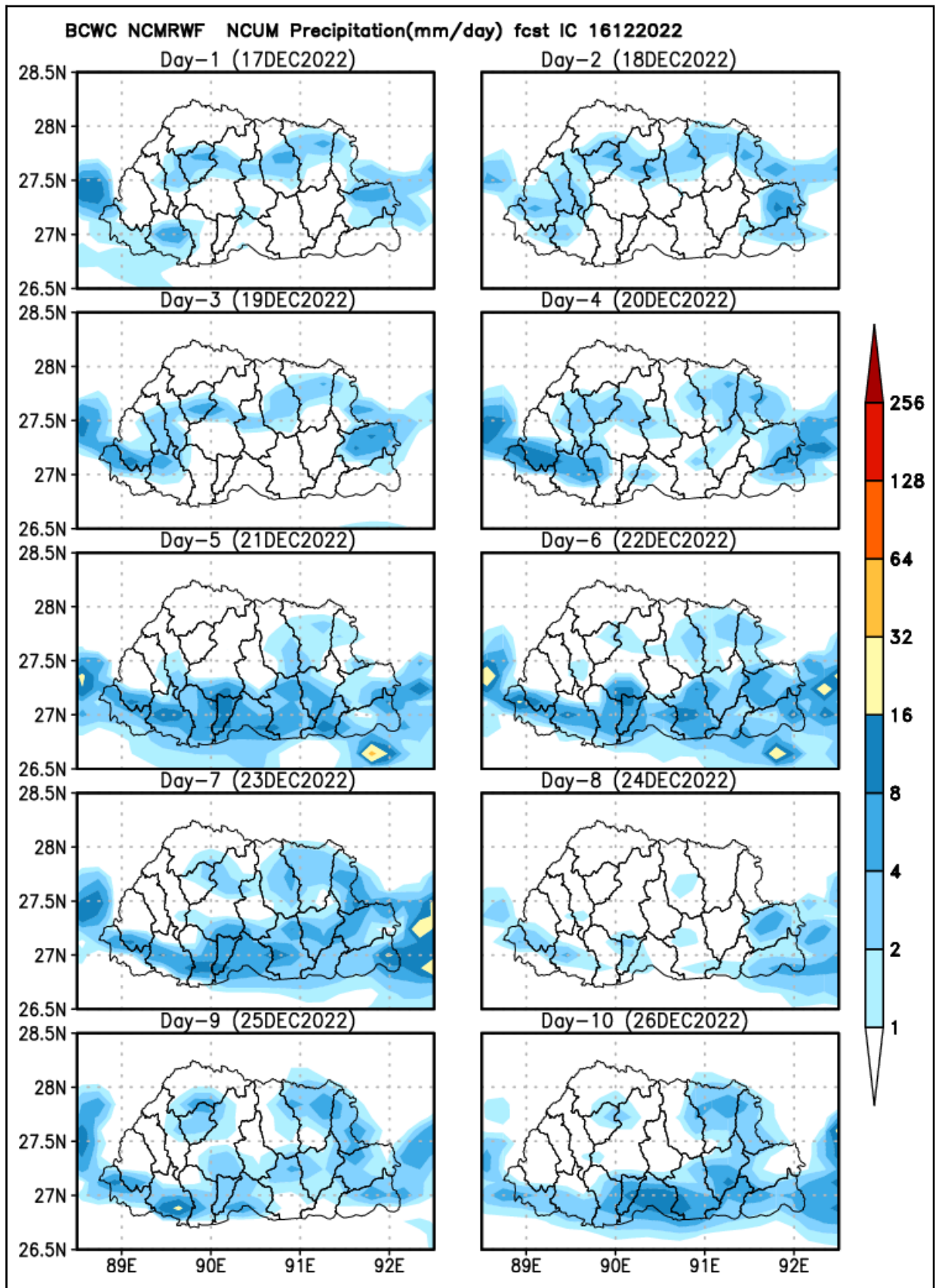
### **1. Maximum Temperature Forecast**



**2. Minimum Temperature Forecast**



### 3. Rainfall Forecast



**National Center for Hydrology and Meteorology  
Thimphu**