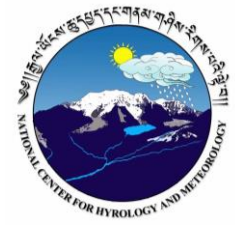




རྒྱལ་ཡོངས་ཚུ་དབྱུང་དང་གནམ་གཤིས་རིག་པའི་རྩེ་བ།  
དཔལ་ལྷན་འབྲུག་གཞུང་།  
National Center for Hydrology & Meteorology  
Royal Government of Bhutan



Issued on: 30 November 2018

**Precipitation and Temperature Outlook for 2018 Winter Season**

The National Center for Hydrology and Meteorology releases the outlook for precipitation and temperature for 2017 winter season, for the months of December 2018 to February 2019. The forecast was prepared using a statistical model (Climate Predictability Tool) with inputs such as the Global Sea Surface Temperature and Observed Data (Rainfall and Temperature) of Bhutan. For the temperature, the average of the maximum and minimum temperature was used. In addition, the outputs from the South Asian Seasonal Climate Outlook Forum (SASCOF), winter season 2018 and the seasonal probabilistic multi-model ensemble of WMO Lead Centre for Long Range Forecast were used.

**Rainfall Forecast for 2018 Winter Season**

Normal is the average rainfall for winter (DJF) of Bhutan from 1996 to 2017. The winter rainfall for Bhutan during 2018 will likely be below normal.

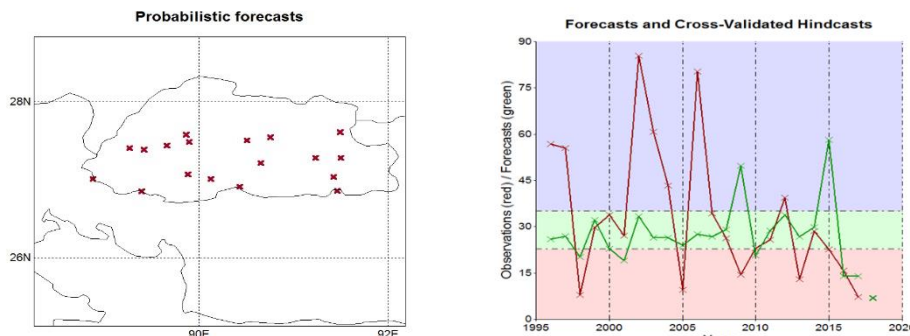


Figure 1 Graphical representation of model output showing DJF rainfall forecast (map-station wise & series-average)

**Temperature Forecast for 2018 Winter Season**

The temperature forecast for Bhutan 2018 winter season will most likely be above normal.

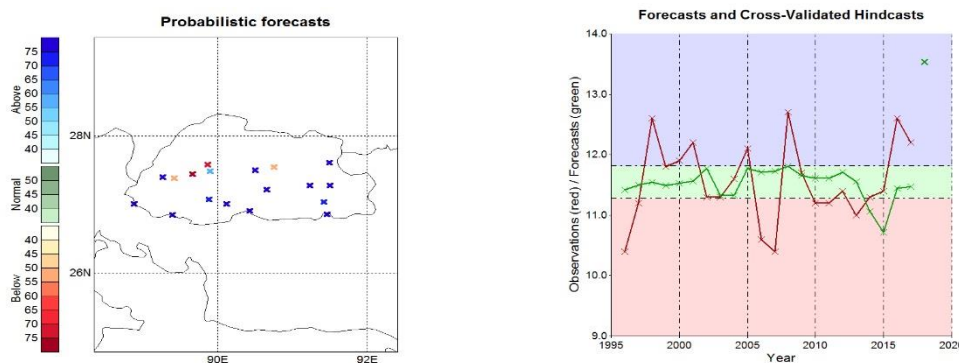


Figure 2 Graphical representation of model output showing DJF temperature forecast (map-station wise & series-average)