



## Monthly and Seasonal Outlook of Rainfall for Chattogram and Cox's Bazar Region, Bangladesh

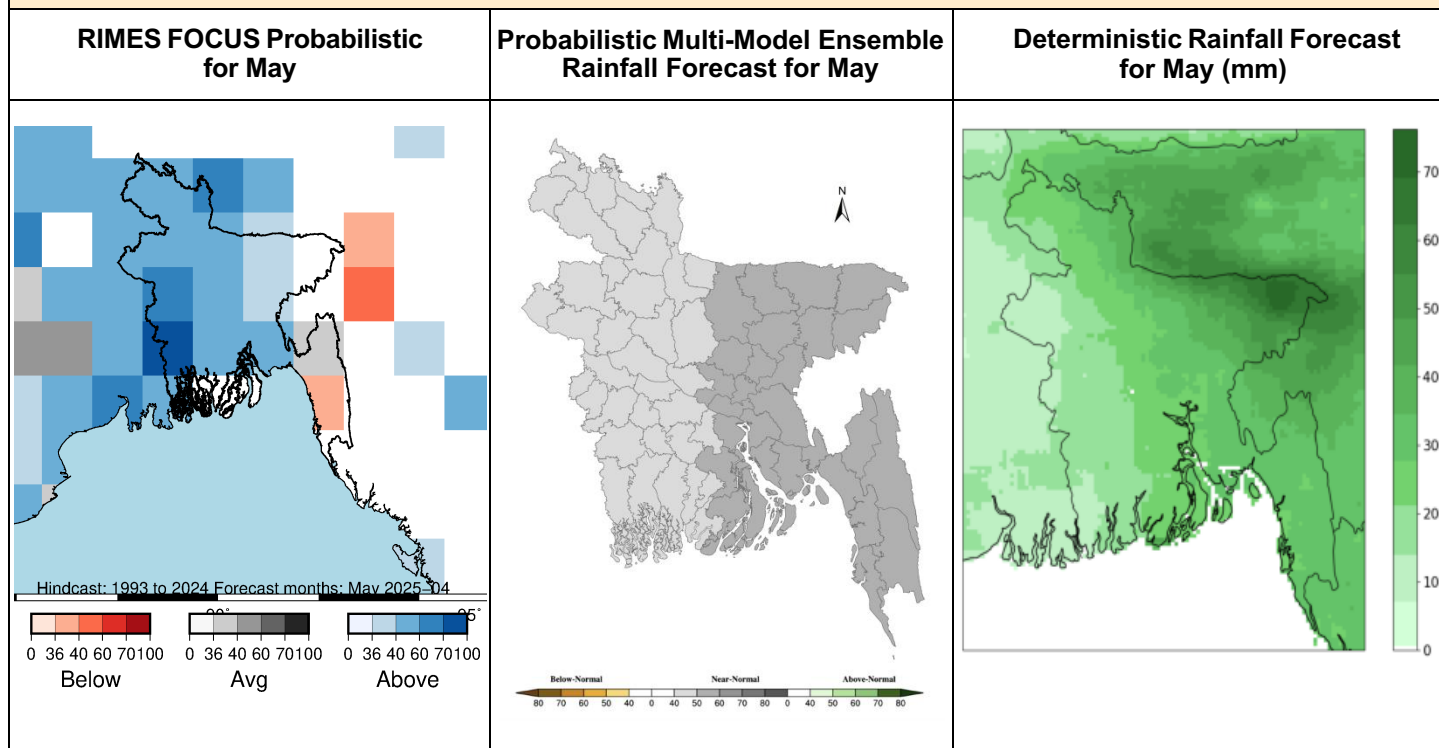
Issued on May 07, 2024  
For the Month May and May-Jun-Jul

### Observed Climate in April 2025

The cumulative rainfall for the month of March in Cox's Bazar was 157 mm and in Teknaf was 10 mm which indicates in Cox's Bazar (+29%) above normal and Teknaf (-86%) below normal rainfall during April. For reference, based on the climatology (1980-2018) the normal cumulative rainfall for the month of April is 121.8 mm in Cox's Bazar and 73 mm in Teknaf. The overall rainfall scenario was below normal (-34%) for Chattogram in the month of April.

### Outlook for May 2025

Considering World Meteorological Organization (WMO) designated global center model outputs, RIMES FOCUS probabilistic outlook, and BMD's deterministic forecast, there is a 50% chance of near normal rainfall in Cox's Bazar region during the month of May. For reference, based on the climatology (1980-2018) the normal cumulative rainfall for the month of May in Cox's Bazar is 287 mm and Teknaf is 260 mm. Overall, analyzing the available model output, it is likely to be near normal rainfall for the whole country during the month of May.

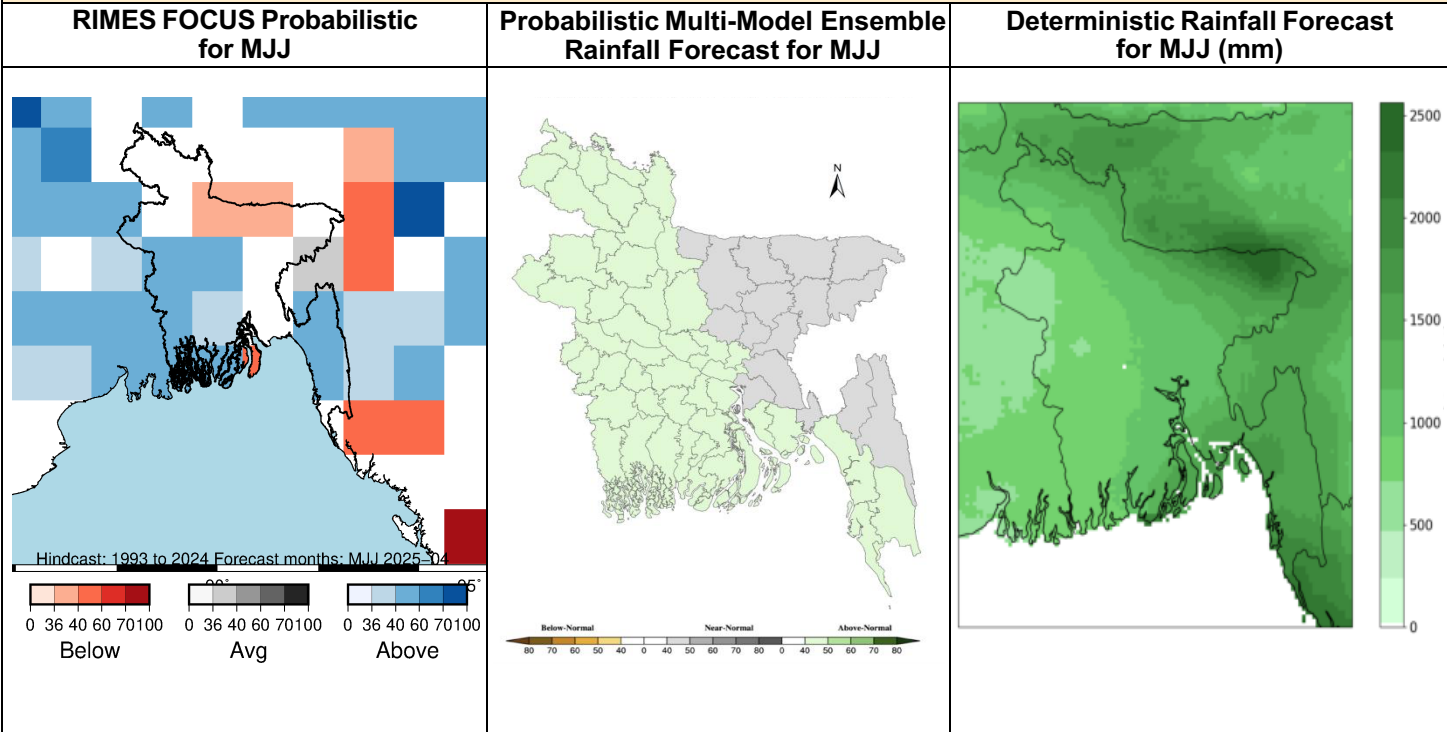


The bulletin is prepared by the Regional Integrated Multi-Hazard Early Warning System for Asia and Africa (RIMES) in collaboration with the Bangladesh Meteorological Department (BMD).

There may form 1-3 low pressures system in Bay of Bengal during May and 1-2 of them may intensify into a depression/cyclone.

Outlook for May-Jun-Jul 2025

Considering World Meteorological Organization (WMO) designated global center model outputs, RIMES FOCUS probabilistic outlook, and BMD’s deterministic forecast, it is highly likely that the month of May-June-July would bring above-normal rainfall for the Chattogram and Cox’s Bazar region. Based on the climatology (1980-2018) the normal cumulative rainfall for May-June-July in Cox’s Bazar is 2,013 mm and in Teknaf is 2,258 mm. Considering the available model output there is a 40% chance of above-normal rainfall in the Cox’s Bazar region. Overall, the whole country may receive normal to above normal rainfall during this three-month period.



Overview

The climate outlook provides a broader perspective of the possible climate for the coming month and season. This monthly and seasonal outlook (May and May-June-July) is generated by analyzing various global models and the monthly forecast of the Bangladesh Meteorological Department. In this outlook, forecast generated by the RIMES FOCUS tool is also included (which shall be tested experimentally for Bangladesh).

## Interpretation of climate outlooks

In general, the climate outlooks are presented in two different ways. But first we need to explain **Normal**. Normal in climate terms is the Long Period Average (LPA) of the rainfall over a location using 30 years or more of rainfall data (measured at a station). The average is considered as the “Normal” rainfall for the region. And seasonal climate outlook is to estimate if the season will have more than Normal, less than Normal rainfall or equivalent to normal rainfall.

### Forecast methods:

1. **Deterministic:** Deterministic forecast explains the percentage (%) departure from the Normal. If we expect 20% or less than Normal rainfall, we call it to be **Below Normal**, if we expect 20% or more, we can it **Above Normal** and anything within the  $\pm 20\%$  is called **Near Normal** rainfall for the season.

2. **Probabilistic:** The probabilistic approach explains the possibility (chance) of a certain amount of rainfall happening. For example, what is the chance of the season to be Below normal, or Normal or above Normal. If we say 45% Below normal, 30 % Normal, and 25 % Above Normal. There is a highly likely chance for the season to be Normal to Below Normal with a combined (75%) chance.

### Important Note

Below Normal rainfall does not indicate there will be no or less extreme rainfall events. There can be high-intensity rainfall within a short period of time followed by extended dry spells which may still sum up as Below Normal for the month. Users are advised to follow short and medium-range forecasts of BMD to keep track of extreme weather events. This outlook will be updated in the first week of June 2024.