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

Issued on June 07, 2025

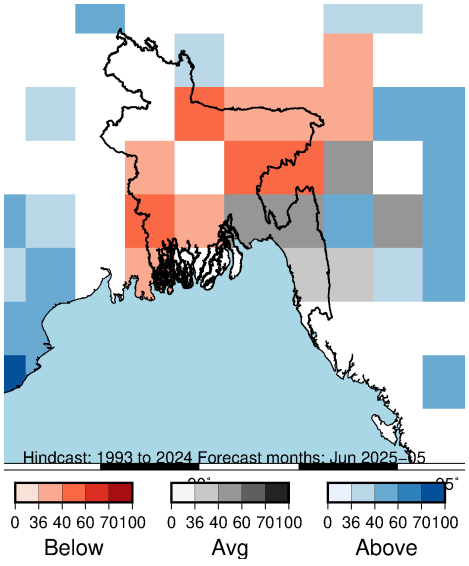
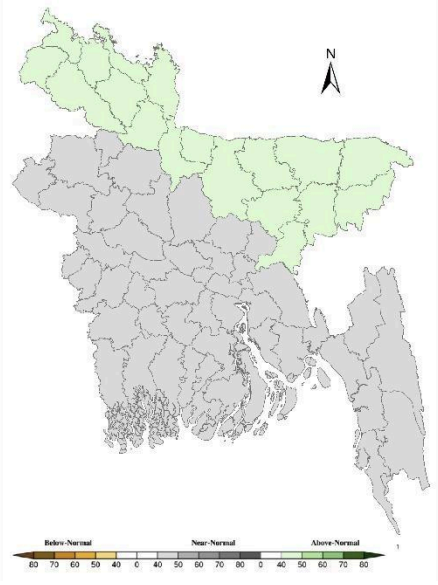
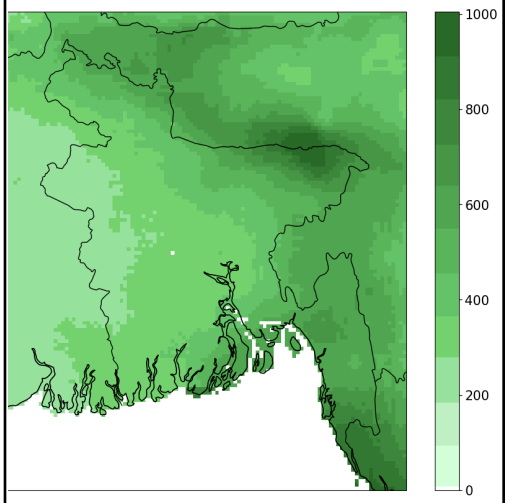
For the Month June and Jun-Jul-Aug

Observed Climate in May 2025

The cumulative rainfall for the month of May in Cox's Bazar was 526 mm and in Teknaf was 68 mm which indicates in Cox's Bazar (83%) above normal and Teknaf (74%) below normal rainfall during May. For reference, based on the climatology (1980-2018) the normal cumulative rainfall for the month of May is 287 mm in Cox's Bazar and 260 mm in Teknaf. The overall rainfall scenario was above normal (50%) for Chattogram in the month of May.

Outlook for June 2025

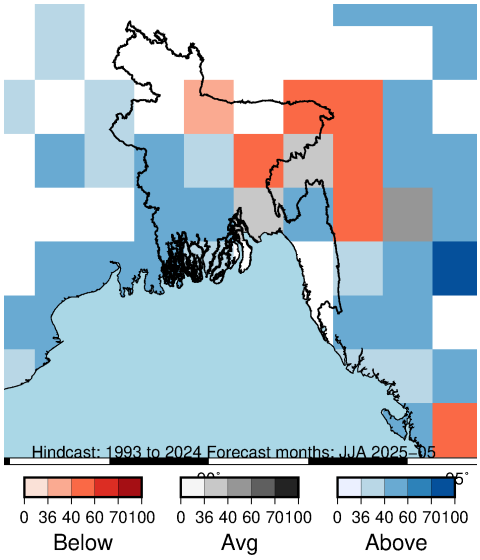
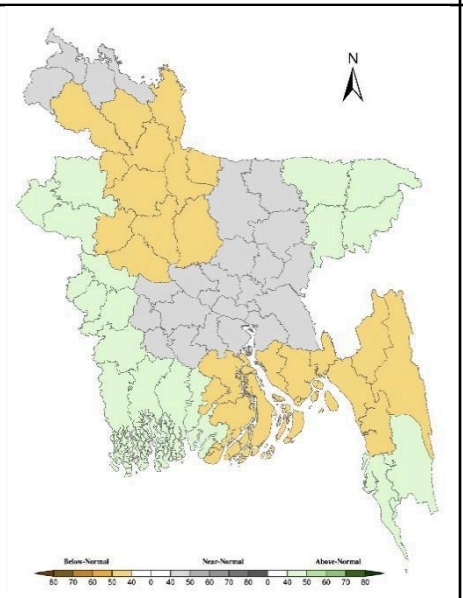
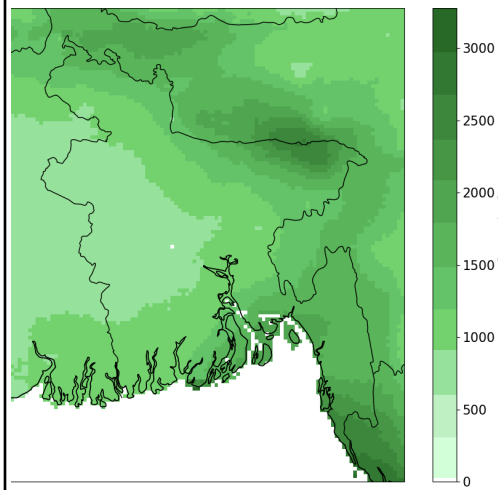
Considering World Meteorological Organization (WMO) designated global center model outputs, RIMES FOCUS probabilistic outlook, and BMD's deterministic forecast, there is a 40% chance of near normal rainfall in Cox's Bazar region during the month of June. For reference, based on the climatology (1980-2018) the normal cumulative rainfall for the month of June in Cox's Bazar is 802 mm and Teknaf is 968 mm. Overall, analyzing the available model output, it is likely to be near normal to above normal rainfall for the whole country during the month of June.

RIMES FOCUS Probabilistic for June	Probabilistic Multi-Model Ensemble Rainfall Forecast for June	Deterministic Rainfall Forecast for June
		

There may form 1-2 low pressures system in Bay of Bengal during June and one of them may intensify into monsoon depression.

Outlook for June-July-August 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 June-July-August would bring above-normal rainfall for the Chattogram and Cox's Bazar region. Based on the climatology (1980-2018) the normal cumulative rainfall for June-July-August in Cox's Bazar is 2,394 mm and in Teknaf is 2896.7 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 rainfall during this three-month period.

RIMES FOCUS Probabilistic Forecast for JJA	Probabilistic Multi-Model Ensemble Rainfall Forecast for JJA	Deterministic Rainfall Forecast for JJA
		

Overview

The climate outlook provides a broader perspective of the possible climate for the coming month and season. This monthly and seasonal outlook (June and June-July-August) 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 szmore 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 ±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

Near 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 dry spells which may sum up as Near 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 July 2025.