



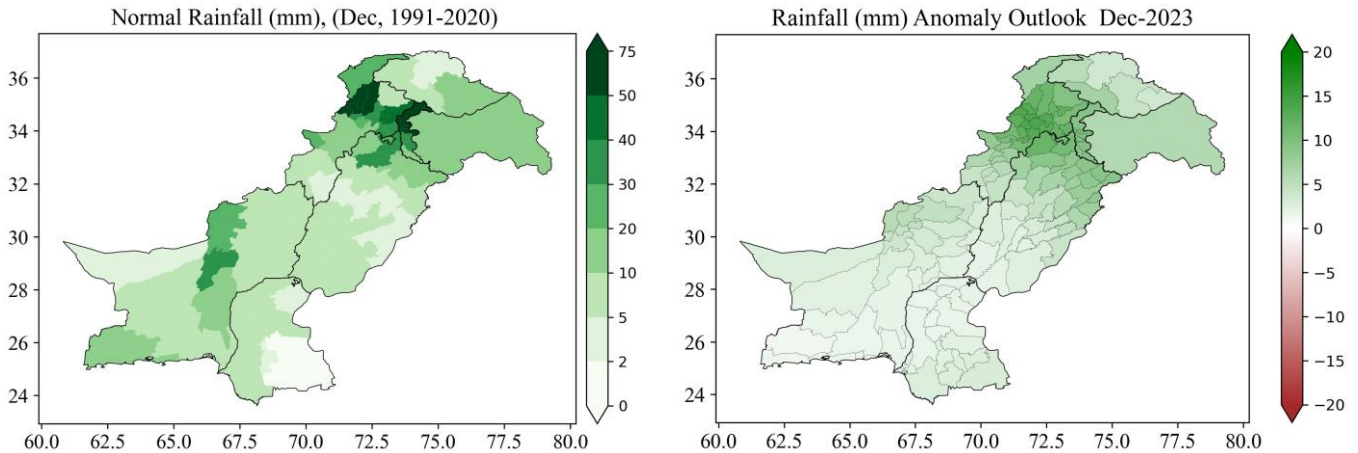
## Outlook for December 2023

### 1. Synoptic Situation:

Considering positive phases of climate indicators like El Niño Southern Oscillation (ENSO) and Indian Ocean Dipole (IOD), which are expected to persist, the climatic outlook for Pakistan in the forecast month is as follows:

### 2. Monthly Rainfall Outlook:

Overall a tendency for **normal\* to slightly above normal** rainfall is expected in most parts of the country. The northern half of the country comprising of Khyber Pakhtunkhwa, Kashmir and northern Punjab are expected to receive slightly above normal rainfall during the forecast month. Sindh, southern Punjab and most parts of Balochistan and Gilgit-Baltistan may get near normal rainfall during December 2023.

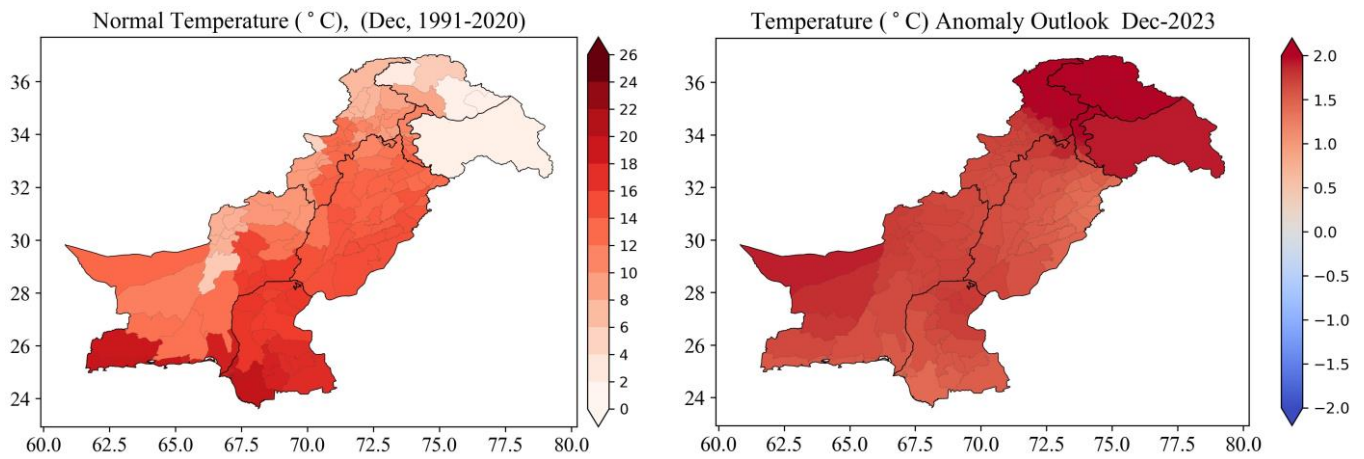


**Figure 1:** Normal (1991-2020) rainfall and monthly anomaly outlook for December 2023

### 3. Monthly Temperature Outlook:

Temperatures are expected to remain **above normal\*** nationwide, with maximum departure over Gilgit Baltistan, northern Khyber Pakhtunkhwa, Kashmir and western Balochistan.

\*Normal = 30-years (period) average climatology



**Figure 2:** Normal (1991-2020) temperature and monthly anomaly outlook for December 2023

#### 4. Impacts:

- Fog/Smog is likely to persist in the plains of Punjab and Upper Sindh during the month of December.
- Considerable amount of water would be available for standing crops and vegetables.
- Reasonable soil moisture is expected to be available for sowing and early growth of upcoming Rabi crops.
- Satisfactory amount of water for irrigation and power sectors would be available during the forecast month.

**Note:** Considering the dynamic nature of the climate system the outlook is updated monthly during the last week of each month.

\*Normal = 30-years (period) average climatology