



## Outlook for August 2024

### 1. Synoptic Situation:

Considering the neutral phase of the El Niño Southern Oscillation (ENSO), which is expected to shift to a weak negative phase (La Niña) at the end of the month, along with the prevailing neutral phase of Indian Ocean Dipole (IOD), the climatic outlook for Pakistan in the month August is as follows:

### 2. Monthly Rainfall Outlook:

Overall a tendency for **near normal\*** rainfall is expected in most parts of the country. However, northeastern Punjab and southeastern Sindh may get slightly above normal rainfall during August 2024.

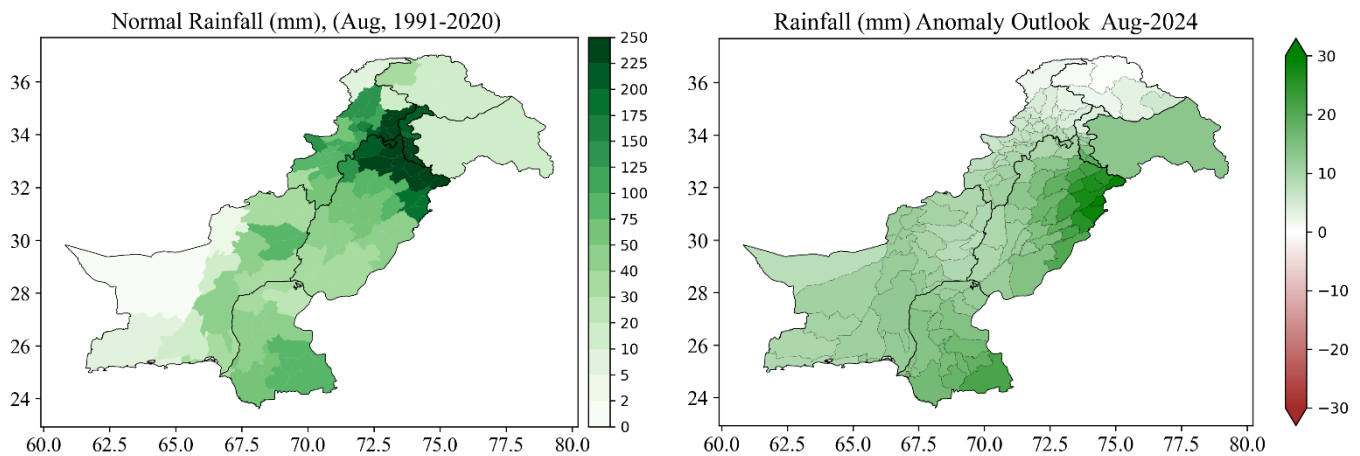
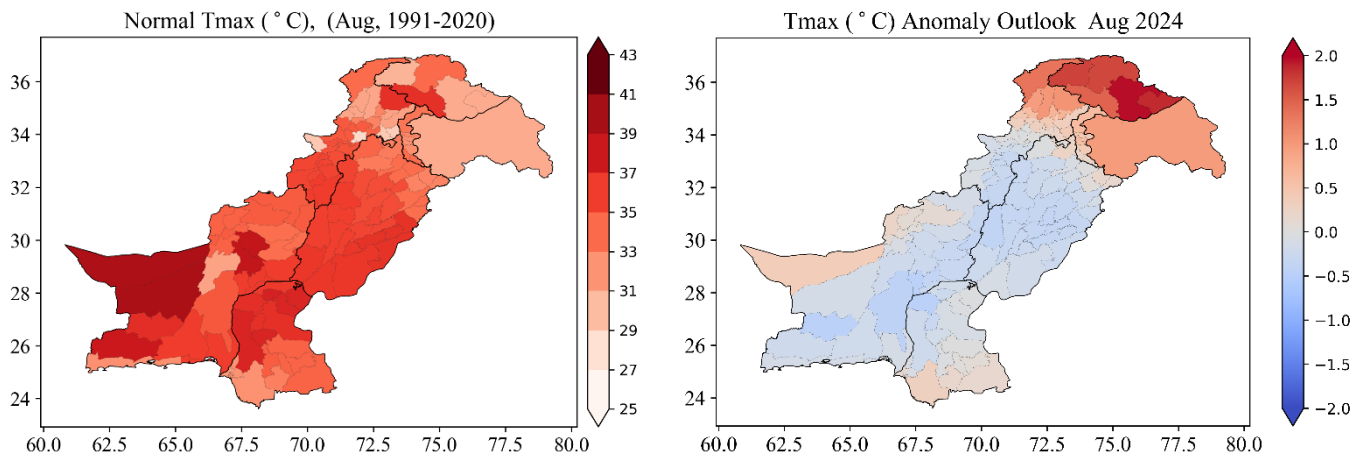


Figure 1: Normal (1991-2020) rainfall and monthly anomaly outlook for August 2024

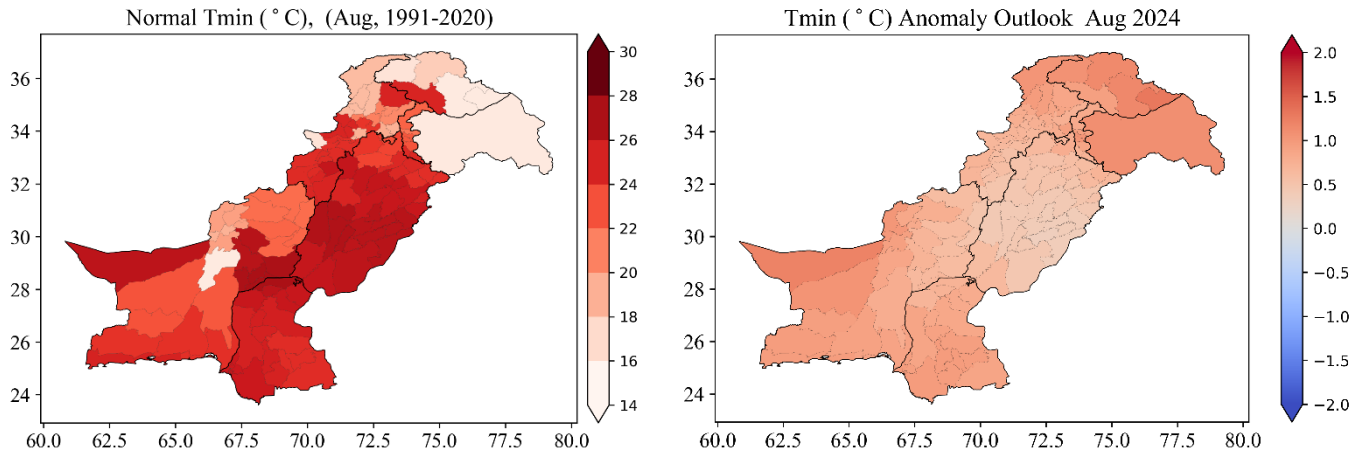
### 3. Monthly Temperature Outlook:

The day time maximum temperatures are expected to remain **normal\* to below normal** over most of the country, however, northern parts (Upper Khyber Pakhtunkhwa and Gilgit-Baltistan), will remain warmer than normal. Concurrently, warmer than normal minimum temperatures are expected nationwide with maximum departure over Gilgit-Baltistan and southwestern Balochistan.

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



**Figure 2:** Normal (1991-2020) maximum temperature and monthly anomaly outlook for August 2024.



**Figure 3:** Normal (1991-2020) minimum temperature and monthly anomaly outlook for August 2024.

#### 4. Impacts:

- Isolated and localized extreme rainfall events can trigger:
  - Flash flooding in mountainous areas of Punjab, Azad Jammu and Kashmir, and Khyber Pakhtunkhwa.
  - Urban flooding in big metropolitan areas.
  - Hill torrents in Southern Punjab, and Balochistan.
  - Inundation of urban areas in the southeastern parts of Sindh.
- Above normal temperatures in mountainous areas of Upper Khyber Pakhtunkhwa, Gilgit-Baltistan, and Kashmir may accelerate snowmelt, increasing inflow in Upper Indus and Kabul Rivers, along with chance of Glacial Lake Outburst Floods (GLOFs).
- Due to extreme hydro-meteorological events over catchments, riverine floods are expected in major rivers of the country.
- Current atmospheric conditions may trigger dust storms and thunderstorms posing risks to crops, buildings, and infrastructure in the region.
- Sufficient water availability for irrigation and power sectors will be a good impact.
- Dengue outbreak due to stagnant water is likely in inundated areas.

**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