



Outlook for July 2024

1. Synoptic Situation:

Considering the neutral phase of the El Niño Southern Oscillation (ENSO), which is expected to persist during the forecast month, along with the prevailing neutral phase of Indian Ocean Dipole (IOD), the climatic outlook for Pakistan in the forecast month 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 lower Sindh may get slightly above normal rainfall during July 2024.

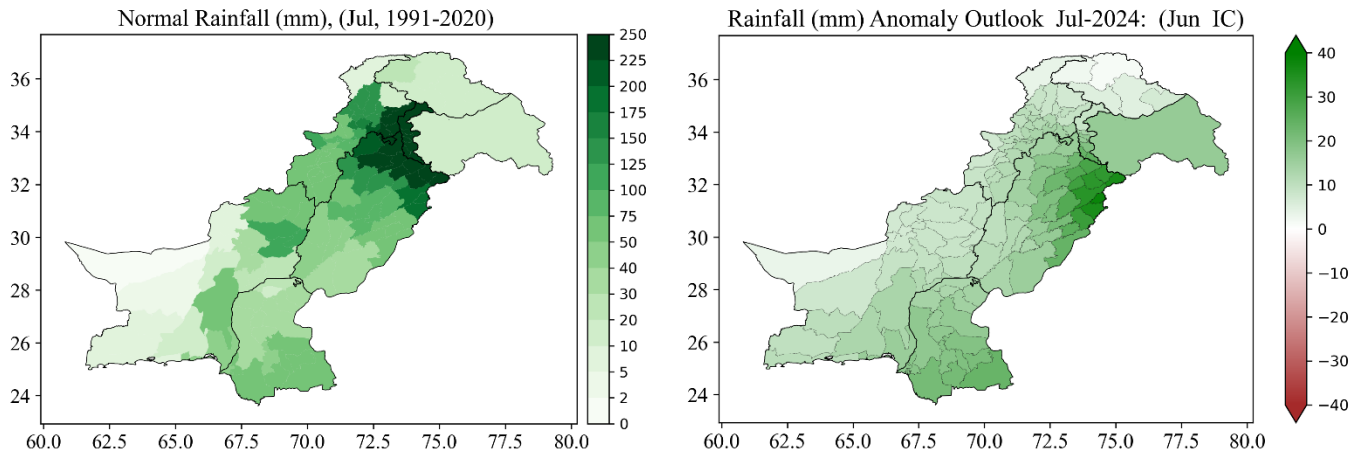


Figure 1: Normal (1991-2020) rainfall and monthly anomaly outlook for July 2024

3. Monthly Temperature Outlook:

The day time maximum temperatures are expected to remain **nearly 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 northern Khyber Pakhtunkhwa, Gilgit-Baltistan and southwestern Balochistan.

*Normal = 30-years (period) average climatology

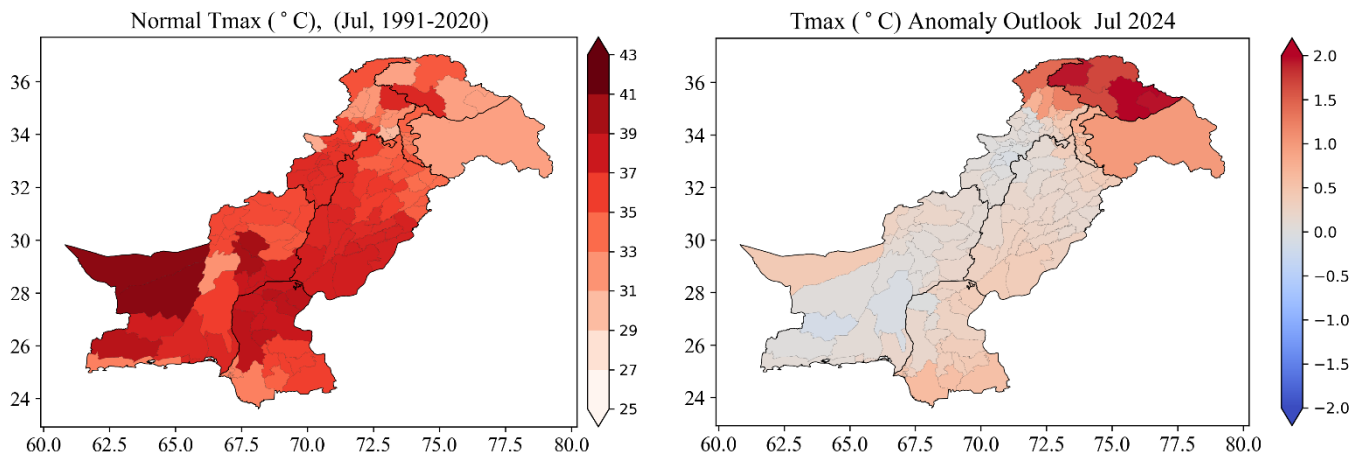


Figure 2: Normal (1991-2020) maximum temperature and monthly anomaly outlook for July 2024.

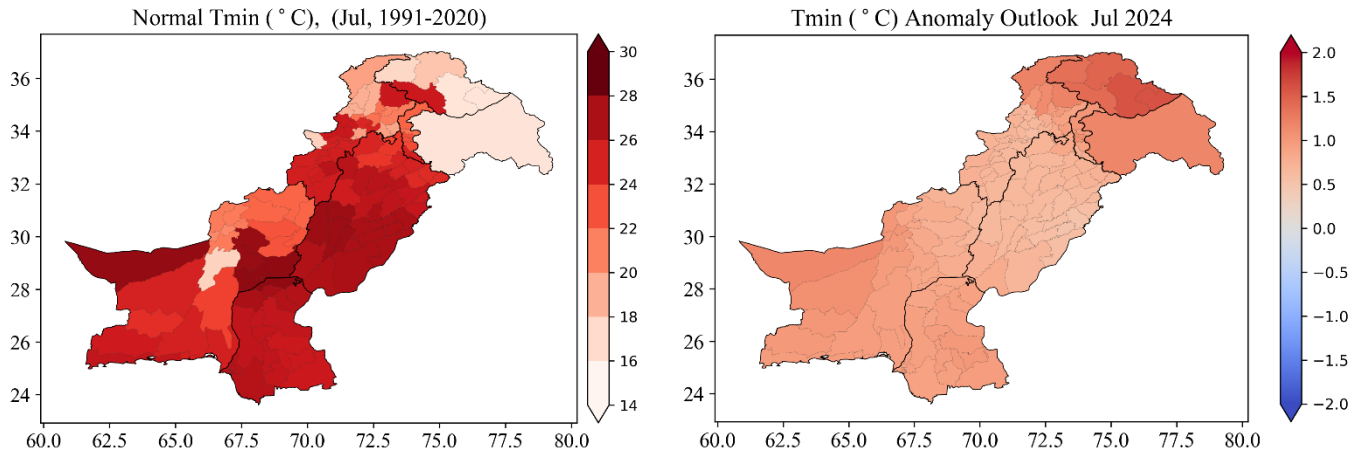


Figure 3: Normal (1991-2020) minimum temperature and monthly anomaly outlook for July 2024.

4. Impacts:

- Isolated and localized extreme rainfall events can trigger:
 - Flash flooding in mountainous areas of Punjab, AJK and KP.
 - Urban flooding in big metropolitan areas.
 - Hill torrents in Southern Punjab, and Balochistan.
- 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 can't be ruled out.
- 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.

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