



Government of Pakistan
Ministry of Aviation (Aviation Division)
Pakistan Meteorological Department
Research and Development Division
Sector: H-8/2, Islamabad

Tel: 051-9250364
Fax: 051-9250368

Dated: August 29th, 2024

Outlook for September, 2024

1. Synoptic Situation:

Based on the anticipated weak negative phase of the El Niño Southern Oscillation (weak La Niña) and the prevailing neutral phase of the Indian Ocean Dipole (IOD), the following climatic conditions are expected in Pakistan during September:

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 September 2024. In contrast, Northern Khyber Pakhtunkhwa, Kashmir and Gilgit-Baltistan may receive a slight shortfall, but still near-normal rainfall.

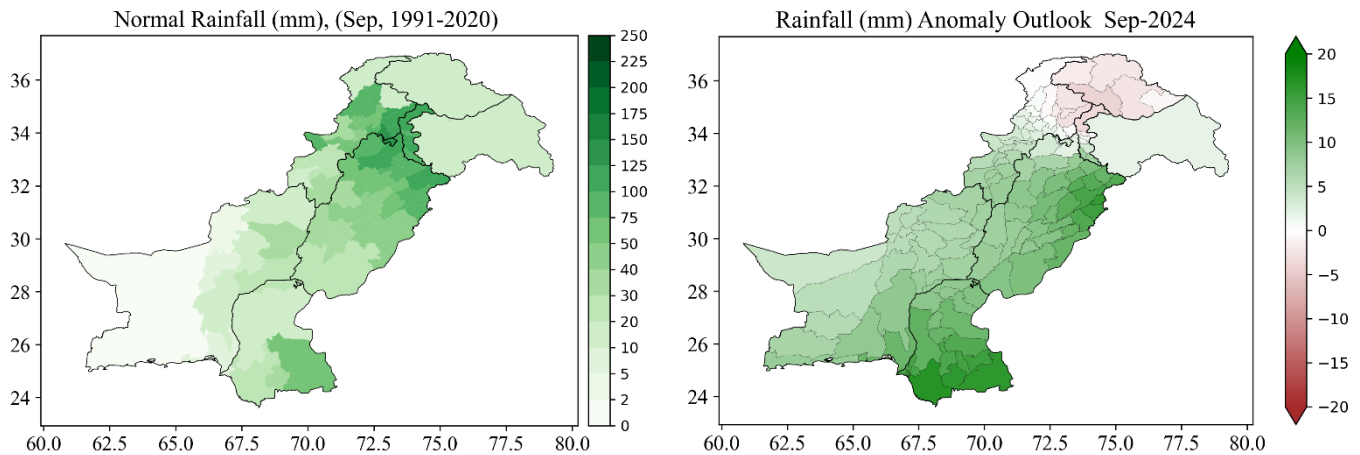


Figure 1: Normal (1991-2020) rainfall and monthly anomaly outlook for September 2024.

3. Monthly Temperature Outlook:

Daytime maximum temperatures are expected to remain **normal* to below normal** over most of the country, however, northern parts (Upper Khyber Pakhtunkhwa, Gilgit-Baltistan and Kashmir), 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

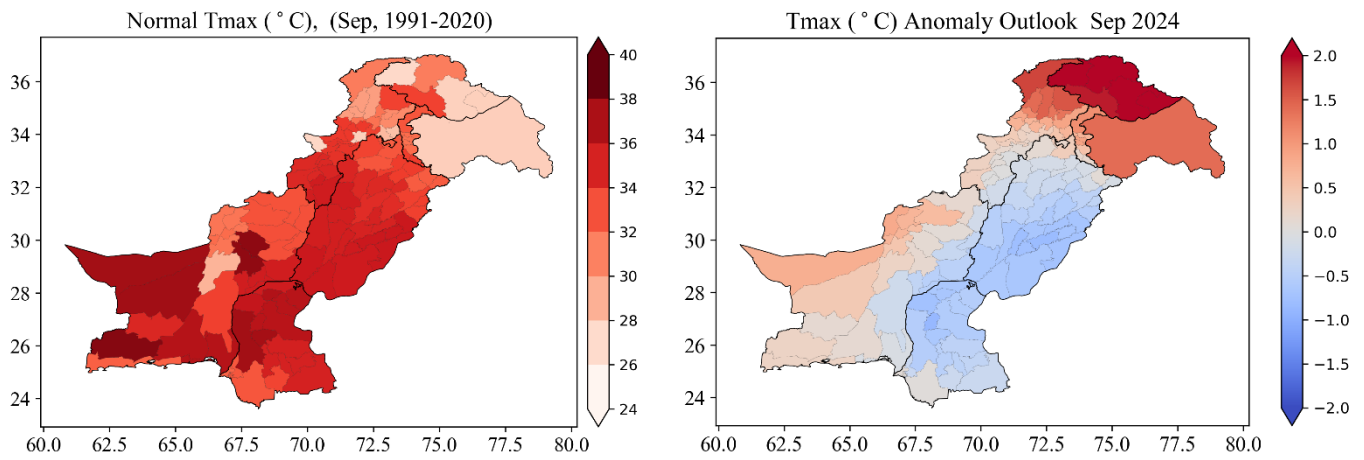


Figure 2: Normal (1991-2020) maximum temperature and monthly anomaly outlook for September 2024.

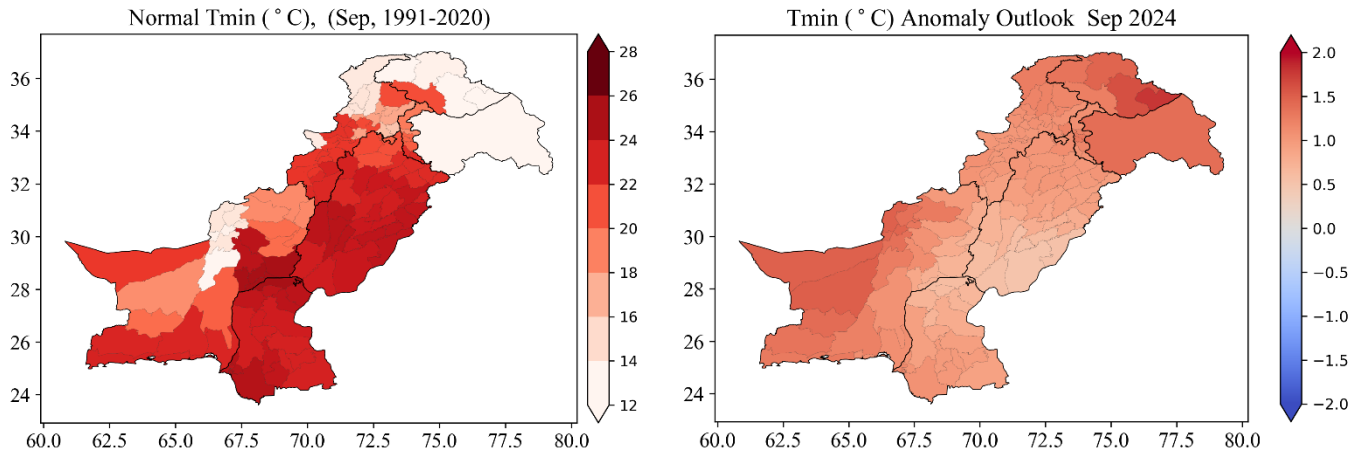


Figure 3: Normal (1991-2020) minimum temperature and monthly anomaly outlook for September 2024.

4. Impacts:

- Isolated extreme rainfall events may lead to urban flooding in the first fortnight of September.
- Although temperatures are decreasing, a short warming episode or an extreme rainfall event may still trigger GLOFs in Northern Pakistan, necessitating vigilant monitoring and disaster preparedness.
- Expected rains during the month of September may not create any adverse impact on the growth of Kharif crops.
- The near normal rainfall in September is expected therefore farmers are advised to follow periodic agro-meteorological bulletins.
- Sufficient availability in water reservoirs will provide a positive impact on irrigation and power generation.

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