



Tel:051-9250364  
Fax:051-9250368

**Government of Pakistan**  
Ministry of Aviation (Aviation Division)  
**Pakistan Meteorological Department**  
Sector: H-8/2, Islamabad.

Date: 30<sup>th</sup> September, 2024

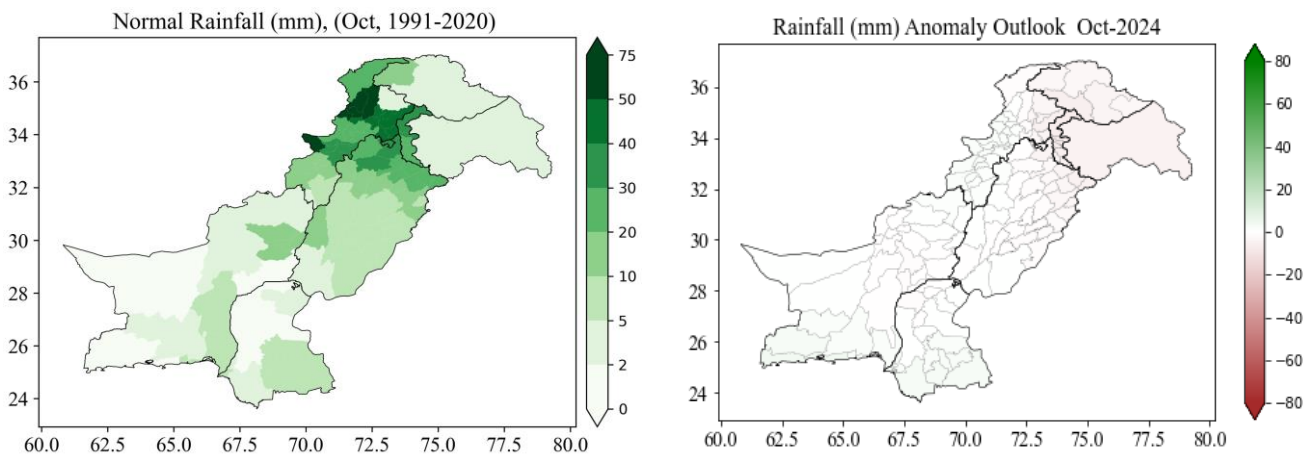
## **Outlook for October 2024**

### **1. Synoptic Situation:**

The Multi-Model Ensemble (MME) analysis indicates a trend towards below-normal Sea Surface Temperature (SST) anomalies in the equatorial region, with the onset of a La-Niña event anticipated to commence in October 2024. Forecasts suggest that SST anomalies may reach  $-0.9^{\circ}\text{C}$  in October 2024. Whereas, Indian Ocean Dipole (IOD) is in neutral phase. Incorporating these climate drivers and the forecasts from General Circulation Models (GCMs), the climatic outlook for Pakistan in the upcoming month is detailed as follows:

### **2. Monthly Rainfall Outlook:**

Overall a tendency for **near normal\*** rainfall is expected in most parts of the country. However, Gilgit Baltistan, AJK and adjoining areas of KPK are expected to receive slightly below normal rainfall during the forecast month.

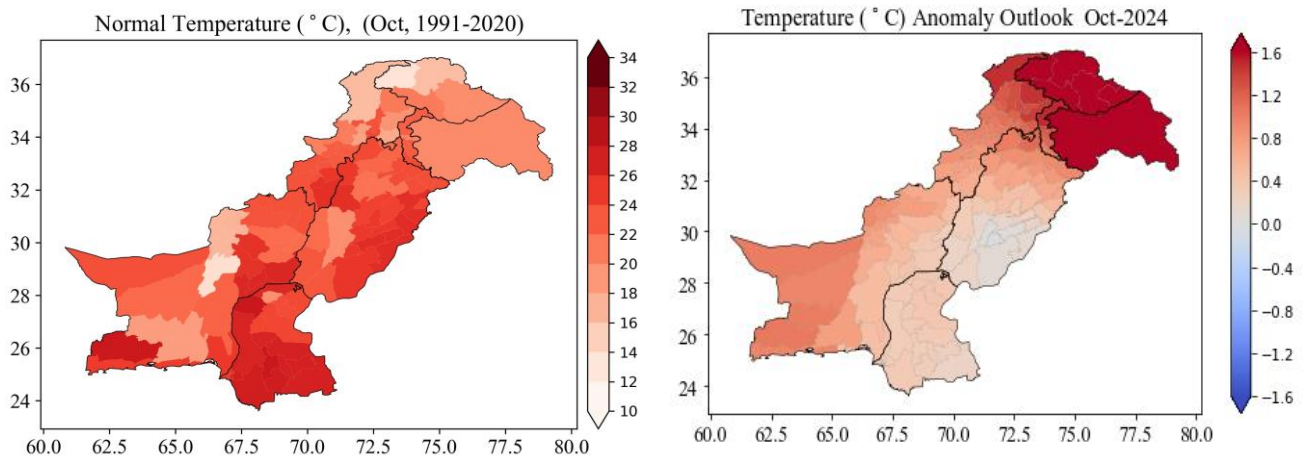


**Figure 1:** Normal (1991-2020) rainfall and monthly anomaly outlook for October 2024

### **3. Monthly Temperature Outlook:**

Temperatures are forecasted to remain slightly **above normal\*** nationwide, with maximum departure over Gilgit Baltistan and western Balochistan.

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



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

#### 4. Impacts:

- A reasonable amount of water is expected for standing crops and vegetables due to near-normal rainfall. This is beneficial for maintaining crop health and yield.
- Isolated showers / hails/ windstorm may disrupt the harvesting activities of Kharif crops.
- Warm and humid environment would support the breeding of Dengue larva in the country.
- Above-normal temperatures in upper glaciated regions may increase the risk of GLOF events at vulnerable locations.
- A decline in air quality may result in smog formation in the plains of the country.
- Near-normal rainfall alongside above-normal temperatures heightens the risk of smog formation in urban 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