



Outlook for October-November-December (OND), 2024

1. Synoptic Situation:

A moderate La Niña condition is projected to develop by October 2024, while the Indian Ocean Dipole is expected to remain neutral. Model outputs indicate a decrease in equatorial sea surface temperature anomalies, from -0.9°C in October to -1.2°C by December. This cooling trend may impact regional precipitation patterns and temperatures.

2. Seasonal Outlook (Rainfall):

As per seasonal outlook **normal*** to **slightly below normal** rainfall is expected in western and upper parts of the country i.e., Khyber Pakhtunkhwa, Gilgit-Baltistan and Balochistan along with upper Punjab and adjoining Kashmir, due to prevailing La Niña conditions. However, there are chances of slightly above normal rainfall along the coastal areas of Pakistan.

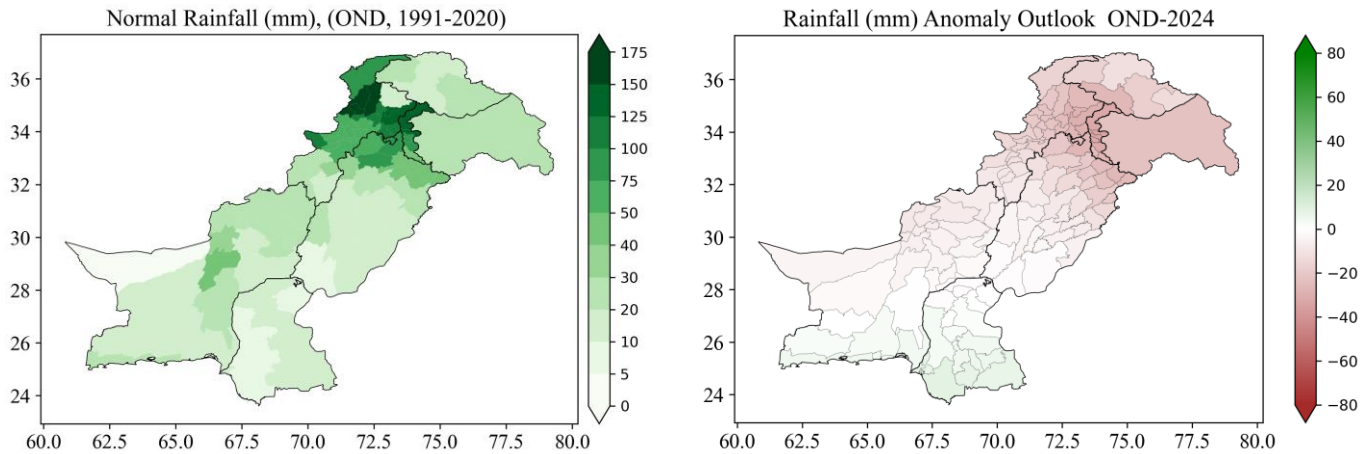


Figure 1: Normal (1991-2020) rainfall and monthly anomaly outlook for OND 2024.

3. Seasonal Temperature Outlook:

Temperatures are expected to remain **above normal*** nationwide. The southwestern parts of Balochistan, upper Khyber Pakhtunkhwa and Gilgit-Baltistan are expected to experience above-normal temperatures. While the Sindh, Punjab and Eastern Balochistan temperatures may be near normal during the forecast season (OND 2024).

*Normal = 30-years (period) average climatology

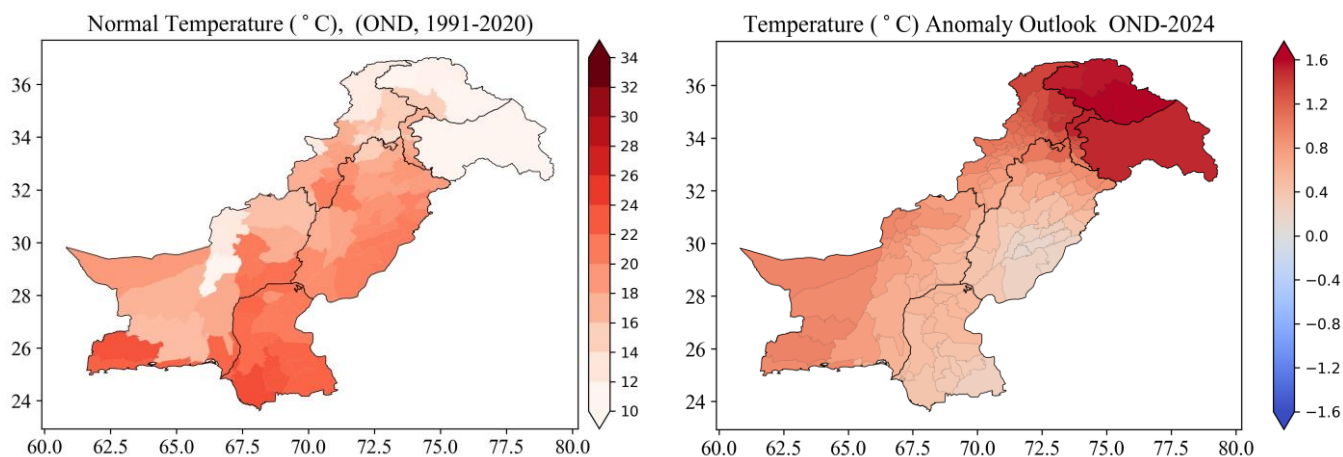


Figure 2: Normal (1991-2020) temperature and monthly anomaly outlook for OND 2024.

4. Impacts:

- Below normal rainfall in key agricultural areas may lead to reduced water availability for irrigation. Therefore, the reliance on supplementary irrigation could increase costs and would deplete water resources.
- Less than normal rainfall may cause inadequate soil moisture levels for sowing Rabi crops, thus farmer should remain vigilant for cultivation and consult periodic agriculture bulletin of PMD.
- Isolated showers / hails/ windstorm may disrupt the harvesting activities of Kharif crops, particularly in the northwestern parts of the country.
- The expected temperature and humidity conditions would be favourable for dengue outbreak in major cities particularly in the central and southern parts of the country during October and November.
- Due to less rainfall spells, thick foggy condition are expected to develop in plain areas of the country.

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