



## Outlook for Monsoon 2021 (Jul –Sep)

### Synoptic situation:

The prevailing ENSO phase is expected to be neutral. The intensity of slightly negative SST anomalies along the equatorial Pacific is expected to persist, which corresponds to a negative Niño index; decreasing  $-0.25^{\circ}\text{C}$  to  $-0.51^{\circ}\text{C}$  during June – November 2021. In summary, based on the running 3-month mean Niño index, the ENSO outlook suggests ENSO neutral conditions with a decreasing chance from 74% to 54% during the forecast period. The Indian Ocean Dipole (IOD) forecast is in neutral phase, but will increase significantly by the end season. Based on the global and regional circulation patterns mentioned above, the outlook for the Monsoon 2021 in Pakistan is as under:

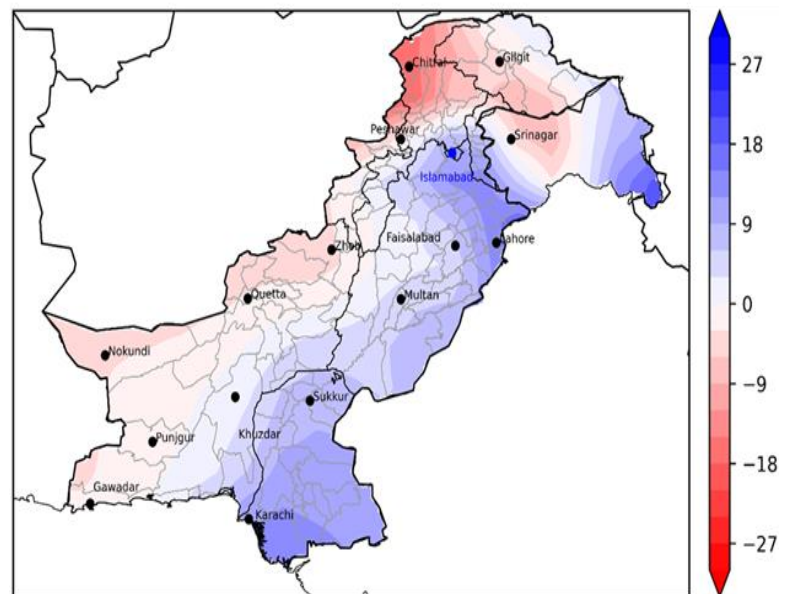
### Seasonal Outlook:

Monsoon rainfall is expected to remain **near normal during July to September 2021** in Pakistan. The eastern and upper half of Punjab, eastern Baluchistan and Kashmir are likely to receive moderately above normal rainfall, while in Sindh slightly above normal rainfall is expected during the season.

Onset of the monsoon is expected during last week of June, expected dates would be **27-30 June**.

*Area weighted normal rainfall of Pakistan during Jul - Sep is 140.8 mm.*

Seasonal Rainfall Anomaly Outlook (mm/month) JAS-2021



### Impacts:

- The extreme hydro-meteorological events over catchment areas are likely to generate riverine floods in the major rivers.
- Due to some heavy rainfall events Flash/ urban flooding in hill torrents areas and plain areas of major cities of Sindh, Punjab, AJK and KP is expected during the season.

**Note:** Keeping in view the rapid changes in climate system dynamics, the above outlook will be updated on monthly basis during the first week of each month.