



Government of Pakistan
Pakistan Meteorological Department
Pakistan's Monthly Climate Summary
April 2023

In brief

- National rainfall for the month of April 2023 was slightly above average (+12.5%).
- The wettest day of the month in the country was 1st April when Gujranwala (Punjab) recorded 65.0 mm rainfall, whereas Dir (KP) was the wettest place with monthly total rainfall of 191.0 mm.
- The national mean monthly temperature of April 2023 for Pakistan was 24.28 °C, being -0.26 °C slightly cooler than average of 24.54 °C.
- Daytime (maximum) temperature at country-level was 31.62 °C, being -0.12 °C slightly cooler than the country-average of 31.74 °C.
- Nighttime (minimum) temperature was 16.98 °C, being 0.18 °C slightly warmer than the country-average of 16.80 °C.
- The hottest day of the month was at Larkana (Sindh) when it recorded 44.0 °C temperature on 14th April 2023, with Mithi being the warmest place with 39.4 °C in mean monthly maximum temperature.
- The coldest temperature (-2.0°C) of the month was recorded at Kalam (KP) on 5th April 2023, which incidentally has also been the coolest place with 1.8 °C in mean monthly minimum temperature.
- The Indian Ocean Dipole (IOD) has remained in neutral phase during the month.
- The El Niño–Southern Oscillation (ENSO) remained neutral (neither La Niña nor El Niño).

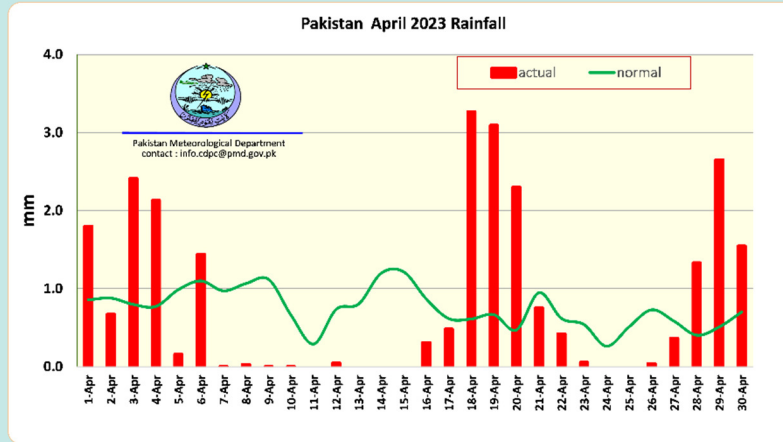
National weather extremes during April 2023

Hottest day	44.0 °C	at Larkana (Sindh) on the 14 th
Coldest day	5.5 °C	at Malam Jabba (KP) on the 1 st and 3 rd
Coldest night	-2.0 °C	at Kalam (KP) on the 5 th
Warmest night	27.0 °C	at Karachi Airport (Sindh) on the 26 th
Wettest day	65.0 mm	at Gujranwala (Punjab) on the 1 st
Wettest month	191.0 mm	at Dir (KP)

Synoptic Summary

In the month April 2023, there were four Western Disturbance (WDs) entered the country back-to-back during 1-6, 7-13, 21-23 & 25-30 April. All these spread over Upper KPK, G.B Kashmir Northern and Southern Punjab, Northwest/Northeast Balochistan, Makran Coast, Upper and Lower Sindh with moisture fed from Arabian Sea. These WDs yielded widespread rain along with Dust-thunderstorm and few hailstorms over most parts of the country during the month. Meanwhile Dry continental air prevailed during 7-13 April over most parts of the country.

Rainfall: Slightly above average as a whole in the country



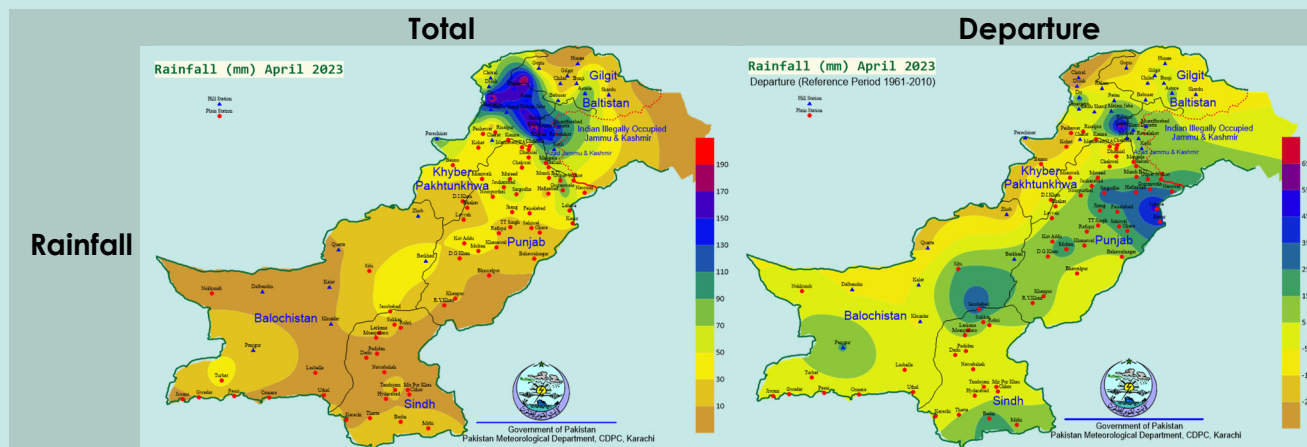
During April 2023, Pakistan experienced four light to moderate and moderate to heavy rainfall events. April 2023 rainfall was 12.5% slightly above average for Pakistan as a whole. Climatologically, the April rainfall contribution is of the order of 40.2% and only 7.6% to the Pre-Monsoon (AMJ) and annual rainfall, respectively. However, with +12.5% deviation, the April 2023 happened to be a slightly above-average rainy month for Pakistan with 25.30mm area-weighted rain against 22.50 mm average rainfall. On a regional scale, extreme above-average rainfall occurred in Sindh (9.50/+205.2%) and ranked 7th wettest April during past 63 years, Punjab with 28.80mm/+40.00%, the AJK with 101.20mm/21.00%, and Balochistan with 13.40mm/+23.70% all recorded above average Rainfall. In contrast, the other regions GB with 22.80mm/-29.80% and KPK with 65.90mm/-10.80% both witnessed below-average rainfall. The wettest day of the month in the country was 1st April when Gujranwala (Punjab) recorded 65.0 mm rainfall, whereas Dir (KP) was the wettest place with a monthly total rainfall of 191.0 mm.

April 2023 Area-Weighted Rainfall

Regions	Rank (of 63)	Normal (mm)	Average (mm)	Departure (percent)	Comment
Pakistan	41	22.5	25.3	12.5	---
Azad Jammu & Kashmir	46	83.6	101.2	21	---
Balochistan	45	10.8	13.4	23.7	---
Gilgit Baltistan	37	32.5	22.8	-29.8	---
Khyber Pakhtunkhwa	29	73.8	65.9	-10.8	---
Punjab	48	20.5	28.8	40	---
Sindh	57	3.1	9.5	205.2	7 th highest (record 26.8 mm in 1961)

[RANK RANGES FROM 1 (LOWEST) TO 63 (HIGHEST)]

April 2023 Rainfall maps



The other significant monthly-total rains were at Kalam 186.2 mm, Kakul 184.0 mm, Balakot 162.0 mm, Malamjabba 161.0 mm, Garhi Dopatta 149.9 mm, Murree 140.0 mm, Rawalakot 135.8 mm, Muzaffarabad Airport 133.0 mm, Pattan 133.0 mm, Muzaffarabad City 123.0 mm, Saidu Sharif 110.0 mm, and Astore 97.4 mm. The stations Hunza, Shaheed Benzirabad and Pasni remained absolutely dry with no rain during the month. The Dalbandin was the only station recorded traces of rainfall during the month.

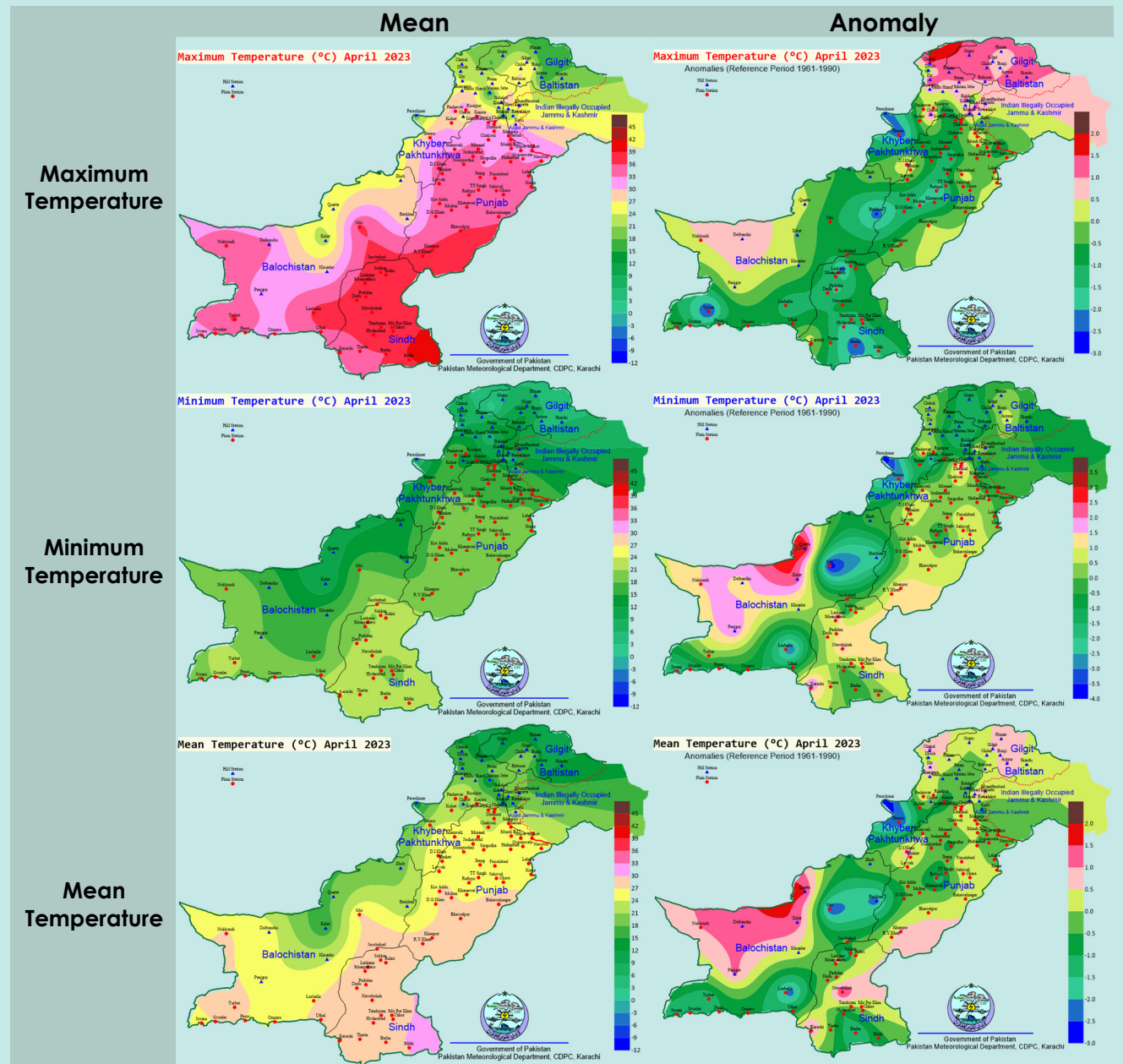
Temperatures: Remain average in most parts of the country.

Area Average Temperatures(°C) statistics in April 2023						
Regions	Maximum Temperature		Minimum Temperature		Mean Temperature	
	Actual	Anomaly	Actual	Anomaly	Actual	Anomaly
Pakistan	31.62	-0.12	16.98	0.18	24.28	-0.26
Azad Jammu & Kashmir	23.68	0.62	10.42	-0.02	16.94	0.17
Balochistan	31.63	-0.06	16.94	-0.01	24.24	-0.46
Gilgit Baltistan	21.95	1.08	8.16	-0.57	15.03	0.20
Khyber Pakhtunkhwa	27.14	0.43	13.07	-0.43	20.11	0.05
Punjab	33.75	-0.47	18.95	0.55	26.36	-0.32
Sindh	37.11	-1.00	21.79	0.64	29.44	-0.19

April 2023 was **-0.26 °C slightly cooler** than average with national mean monthly being 24.28 °C against the average 24.54 °C. The situation on a regional scale was more or less similar; Balochistan with 24.24 °C (**-0.46 °C**), KP 20.11 °C (**+0.05 °C**), Sindh 29.44 °C (**-0.19 °C**), AJK 16.94 °C (**+0.17 °C**), Punjab 26.36 °C (**-0.32 °C**) and GB with 15.03 °C (**+0.20°C**). There were variances in temperature averages, with some exhibiting **slightly warmer** while other remained **slightly cooler** than average temperatures.

April 2023 mean maximum (daytime) temperature of 31.62 °C recorded at country-level being only -0.12 °C slightly cooler than average of 31.74 °C. The average night (minimum) temperature of 16.98 °C was +0.18 °C slightly Warmer than the country-average of 16.80 °C during the month. The mean temperature anomalies of April 2023 range in +1.22 to +3.39 °C in the country. The Mean maximum temperature anomalies were -1.27 to +1.6 °C in the country with being considerably higher in GB. The hottest day of the month was at Larkana (Sindh) when it recorded 44.0 °C temperature on 14th April, while, Mithi (Tharparker distt) proved to be the warmest place with 39.4 °C average maximum temperature during the month. Kalam (KP) recorded the month's coldest night temperature of -2.0 °C on 5th April and incidentally has been the coolest place with 1.8 °C average minimum temperature.

April 2023 Temperature maps



April 2023 Monthly Averages & Normal

Station	Pressure (mb)		Temperature (°C)			Vapor (mb)	Precipitation	
	Station Level	Sea Level	Mean	Maximum	Minimum	Pressure	Total (mm)	Days
Drosh	852.6	1490.3	16.2	22.2	10.2	8.7	80.6	9
	853.6	1496.3	17.2	23.6	10.7	7.9	99.2	12
Peshawar	973.0	1010.2	24.3	31.3	17.2	16.3	25.3	8
	967.4	1007.7	23.6	30.6	16.5	15.2	50.4	9.3
Parachinar	830.2	1527.7	12.5	18.9	5.9	9.3	86.5	9
	826.5	1487.3	14.9	21.3	8.5	8.5	96.5	13.5
Rawalpindi	953.3	1010.1	23.4	29.6	17.2	12.5	42.0	8
	950.6	1007.3	22.5	30.2	15.4	13.4	63.1	9.2
Sargodha	987.6	1008.4	26.3	33.6	19.1	16.7	43.5	7
	986.0	1006.9	26.3	34.2	18.4	15.8	29.6	6.9
Jhelum	981.8	1008.2	25.6	33.6	17.5	16.5	44.2	5
	980.3	1006.8	25.4	33.0	17.8	15.1	36.0	8
Sialkot	980.2	1009.1	24.7	32.0	17.3	16.3	45.5	5
	978.0	1006.5	24.8	32.4	17.2	15.0	33.0	6.1
Zhob	856.9	1474.6	19.8	26.5	13.0	8.3	12.0	2
	856.3	1468.5	20.2	27.2	13.2	8.2	31.2	3.1
D.I.Khan	988.6	1008.0	26.8	34.2	19.3	18.9	22.0	3
	987.0	1006.5	25.9	33.5	18.5	15.8	24.1	5.6
Lahore	984.5	1008.7	26.6	33.4	19.8	15.2	67.8	4
	982.3	1006.3	27.0	34.0	20.0	14.8	22.3	6.3
Quetta	841.8	1506.5	18.2	24.9	11.4	6.1	9.0	4
	839.9	1487.3	17.0	25.3	8.6	8.8	22.2	3.9
Multan	994.1	1008.1	27.2	33.9	20.6	16.5	34.7	5
	992.4	1006.3	28.1	35.6	19.5	15.6	14.6	4
Barkhan	889.2	1485.7	21.3	27.8	14.7	9.9	41.0	7
	887.3	1480.0	23.5	29.6	17.0	9.3	37.3	3.3
Nokkundi	930.3	1004.2	27.2	34.3	20.1	5.9	4.0	1
	931.8	1008.3	25.8	34.2	18.6	10.5	2.3	0.5
Dalbandin	915.4	1492.4	25.3	33.5	17.1	7.5	0.0	0
	914.9	1488.8	24.4	31.9	14.3	8.0	5.7	1
Jacobabad	1001.4	1007.7	29.8	37.5	22.1	15.6	37.0	3
	999.4	1005.6	30.2	38.2	22.3	15.2	2.1	0.7
Khanpur	998.0	1008.0	28.4	36.7	20.0	17.0	12.1	2
	995.7	1005.8	27.7	37.1	18.4	15.3	3.1	1.1
Panjgur	900.3	1479.7	24.8	31.6	18.1	10.2	24.0	2
	901.8	1493.4	24.0	31.5	16.4	6.4	8.6	0.9
Khuzdar	877.0	1502.5	23.5	29.9	17.1	5.3	8.7	3
	873.9	1470.7	22.8	29.9	16.1	4.1	17.1	1.7
Sh. Benazirabad	1004.1	1007.4	29.9	38.5	21.3	18.0	0.0	0
	1002.7	1007.3	29.5	39.6	19.5	19.7	2.6	0.2
Jiwani	1003.0	1009.4	25.6	31.4	19.7	22.9	1.0	1
	1002.2	1008.5	26.7	31.9	21.9	22.7	4.6	0.2
Pasni	1008.9	1009.4	26.0	32.5	19.5	24.1	0.0	0
	1007.4	1008.1	26.2	33.0	20.8	21.8	1.2	0.1
Hyderabad	1002.9	1007.7	30.0	37.2	22.7	16.6	2.0	1
	1002.6	1006.6	31.0	38.8	23.0	17.7	5.1	0.4
Chhor	1006.9	1007.6	29.9	38.5	21.2	20.1	1.1	1
	1005.5	1006.1	29.9	39.6	20.2	17.3	1.6	0.3
Karachi	1006.2	1008.9	29.4	34.5	24.3	23.3	2.2	1
	1005.3	1008.0	28.5	34.5	22.5	22.2	3.2	0.2

Note: The first row against each station contains the actual values while second row for normal values

April 2023 extreme values

STATION	Mean Temperature (°C)				Temperature (°C)				Highest (mm & knots)			
	Highest	Date	Lowest	Date	Highest	Date	Lowest	Date	Rain	Date	Wind Speed	Date
Drosh	21.6	15	9.8	4	28.6	15	5.5	6	16.2	4	14	23
Peshawar	28.4	14*	19.0	3	37.3	14	13.0	6	8.0	6	10	20
Parachinar	17.3	15*	5.1	1	24.5	14*	0.0	3	27.0	3	6	30
Rawalpindi	28.9	15	17.6	1	36.2	15	12.5	2	21.0	20	24	19
Sargodha	31.1	15	19.6	1	41.0	14	14.8	4*	15.0	20	8	19*
Jhelum	30.3	17	18.7	1	39.5	14*	12.5	4	19.0	1	10	18*
Sialkot	28.9	17	16.5	1	38.1	15	11.7	2	20.0	1	10	28
Zhob	24.8	14	14.8	1	32.5	14	8.0	1	10.0	3	11	17
D.I.Khan	30.8	15	21.3	4	40.0	12*	15.0	4	12.0	18	6	19*
Lahore	31.0	17	18.3	1	39.2	15	14.5	1	57.0	1	12	18
Quetta	22.3	15	14.8	6	29.5	14*	6.5	21	4.0	30	24	17*
Multan	32.3	15	21.3	3	41.1	15	15.0	6	14.6	4	14	16*
Barkhan	26.8	15	14.5	5	33.5	14*	8.5	6	18.0	18	6	19
Nokkundi	31.8	15	23.3	18	38.5	15	15.5	4*	4.0	30	16	5
Dalbandin	29.3	15	21.8	6	37.5	15	13.0	6*	0.0	0	10	2*
Jacobabad	33.3	15*	25.5	29	43.0	14*	19.0	1	26.0	29	10	17
Khanpur	32.6	14	24.6	4	43.2	14	16.0	21	9.6	30	16	3
Panjgur	27.5	16	21.3	29	35.5	15	14.5	1	23.0	29	18	2
Khuzdar	29.0	26	21.5	1	39.5	26	15.0	1	3.6	19	8	17
Sh.Benazirabad	32.5	17	26.5	29	42.3	14	18.0	21	0.0	0	18	28
Jiwani	28.5	16	22.3	5	35.5	15*	16.0	5	1.0	30	14	3*
Pasni	28.5	23	24.0	5	36.5	10	17.0	4	0.0	0	14	13
Hyderabad	32.4	14*	25.8	29	40.4	13	20.2	6	2.0	29	24	2
Chhor	31.9	15	26.5	30	42.0	14	18.5	1*	1.1	29	16	3*
Karachi	32.0	23	26.3	30	38.5	23	21.5	6*	2.2	30	14	1

* Means value occurred multiple times

Note

Monthly Climate Summary is produced by Pakistan Meteorological Department, Climate Data Processing Centre, Karachi to provide the main features of weather events occurred in the country during the month. The summary contains detailed data information of 25 climate stations of Pakistan. The extremes & analysis is based on 110 numbers of stations. The information in the summary is based on real time data and/or electronic reports, therefore, the above results can be considered only preliminary. Climate Summaries are usually published in the first week of each month. Long term average for rainfall is for 1961-2010 (50 years) while normal period for temperature is 1961-1990 (30 years).

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