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भारत मौसम विज्ञान विभाग



INDIA METEOROLOGICAL DEPARTMENT
Climate Research and Services (CRS)

Monthly Climate Summary for August 2026

1. Monthly Rainfall Scenario (01 to 31 August, 2026)

Rainfall over the country as a whole during August 2026 was 213.3 mm, which was 16% below the Long Period Average (LPA) of 254.9 mm, making it the 17th lowest August rainfall since 1901 and the 7th lowest since 2001. Daily variation of rainfall over the country as a whole during the month of August 2026 with normal based on data of 1971-2020 is presented in Fig. 1(a).

The All India rainfall percentage departure from normal for August during 1901-2026 is presented in Fig. 1(b). The time series of All-India rainfall from 1901 to 2026 is presented in Fig. 1(c). Rainfall during August 2026 over East and Northeast India was 276.0 mm, the 9th lowest since 1901 and the 6th lowest since 2001, as shown in Fig. 1(d).

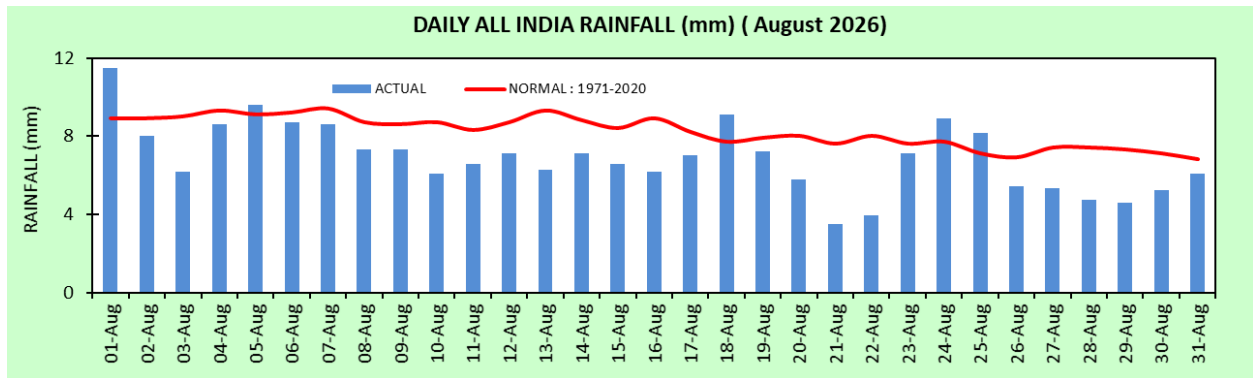


Fig.1 (a): Daily variation of rainfall over the country as a whole during August 2026.

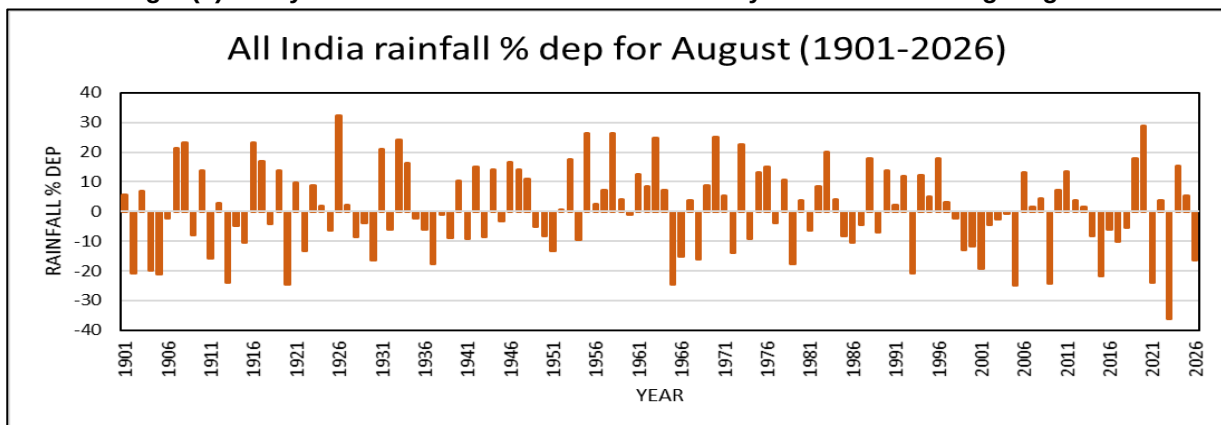


Fig. 1(b): All India monthly rainfall percentage departure from normal (1971-2020) for August from 1901-2026.

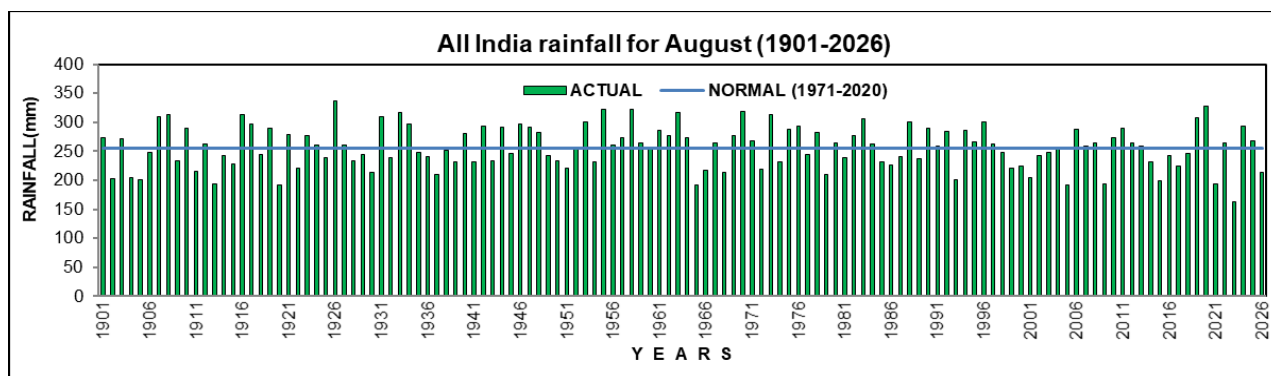


Fig. 1(c): Time series of area weighted rainfall over All India for August (1901 – 2026).

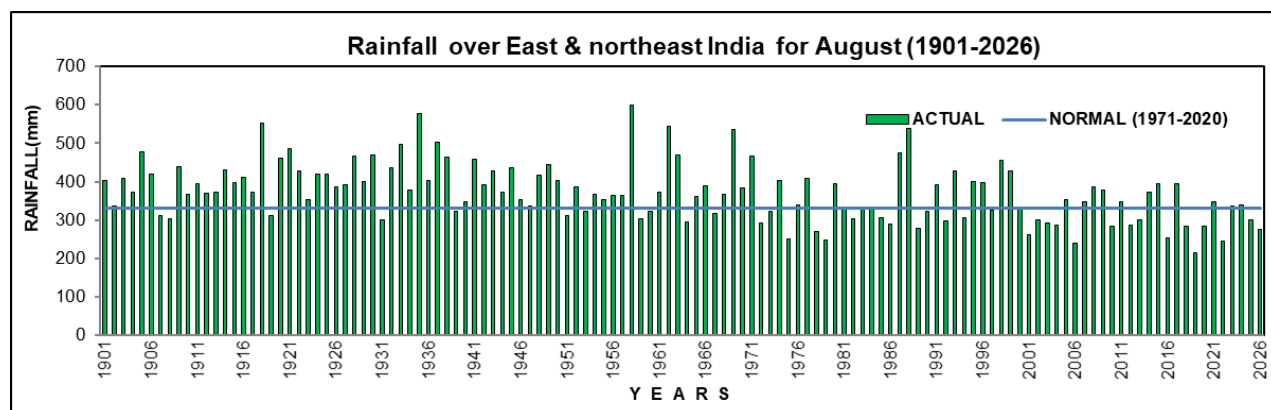


Fig. 1(d): Time series of area weighted rainfall over East & Northeast India for August (1901 – 2026).

The monthly rainfall for August 2026 is given in the table below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	213.3	254.9	-16.3
Northwest India	178.4	197.1	-9.5
Central India	258.8	308.8	-16.2
South Peninsula	139.1	190.7	-27.1
East & Northeast India	276.0	332.0	-16.9

During August 2026, 4 sub-divisions (Gangetic West Bengal, Jharkhand, East and West Uttar Pradesh) received Excess rainfall, while 12 sub-divisions received Normal rainfall, 18 sub-divisions received Deficient rainfall and 2 sub-divisions (Marathwada and Vidarbha) received Large Deficient rainfall (Fig. 2).

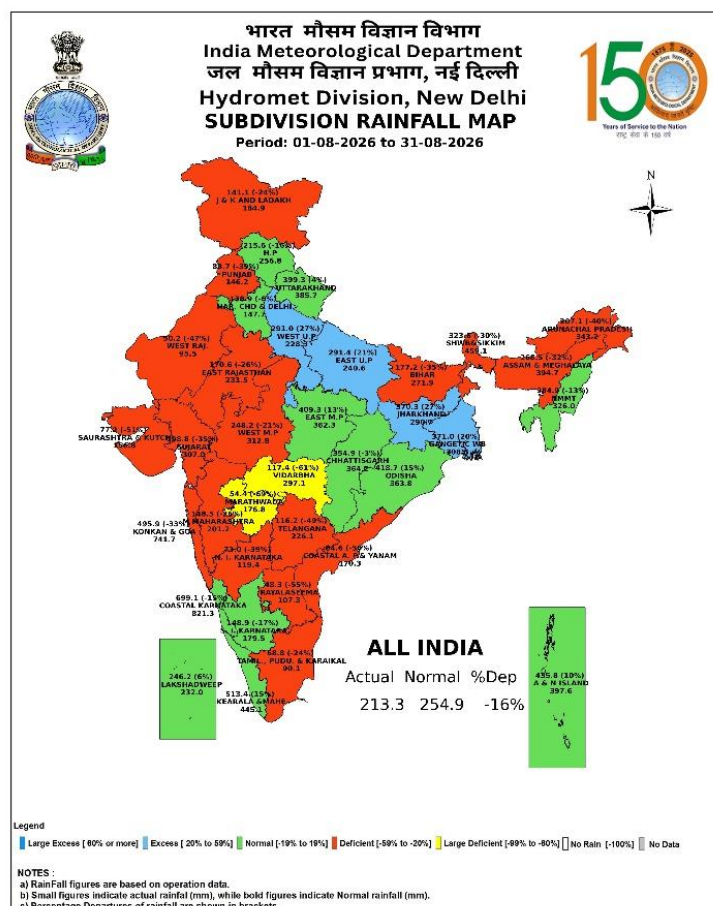


Fig. 2: Subdivision-wise rainfall distribution for August 2026.

The observed spatial distribution of rainfall during August 2026, normal rainfall based on data of 1971 to 2020 and rainfall departures from normal during August 2026 are shown in Fig. 3.

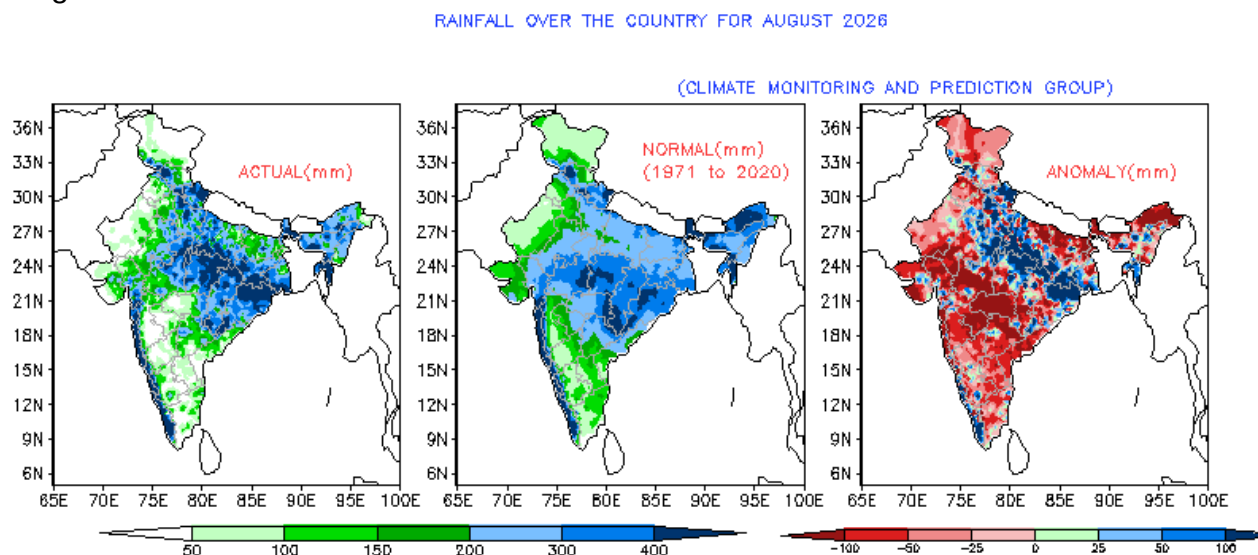


Fig. 3: Observed spatial Rainfall pattern for the month of August 2026 over India and their departure from normal (1971 to 2020 period).
Departure from normal is Anomaly = Actual Rainfall - Normal Rainfall.

2. Frequency of Heavy Rainfall Events.

The spatial distribution indicates that heavy rainfall events are widespread across most parts of the country. Very Heavy rainfall events are concentrated over central India, along west coast, north and northeast India. Extremely Heavy rainfall events are observed, primarily along the west coast and central India.

The location of occurrences of Heavy rainfall events is shown in the Fig. 4. Out of total 2367 occasions, 1883 were Heavy rainfall (64.5 to 115.5 mm) categories, 422 were Very Heavy rainfall (115.6 to 204.4 mm) categories and 62 were Extremely Heavy rainfall (>204.4 mm) categories during August 2026.

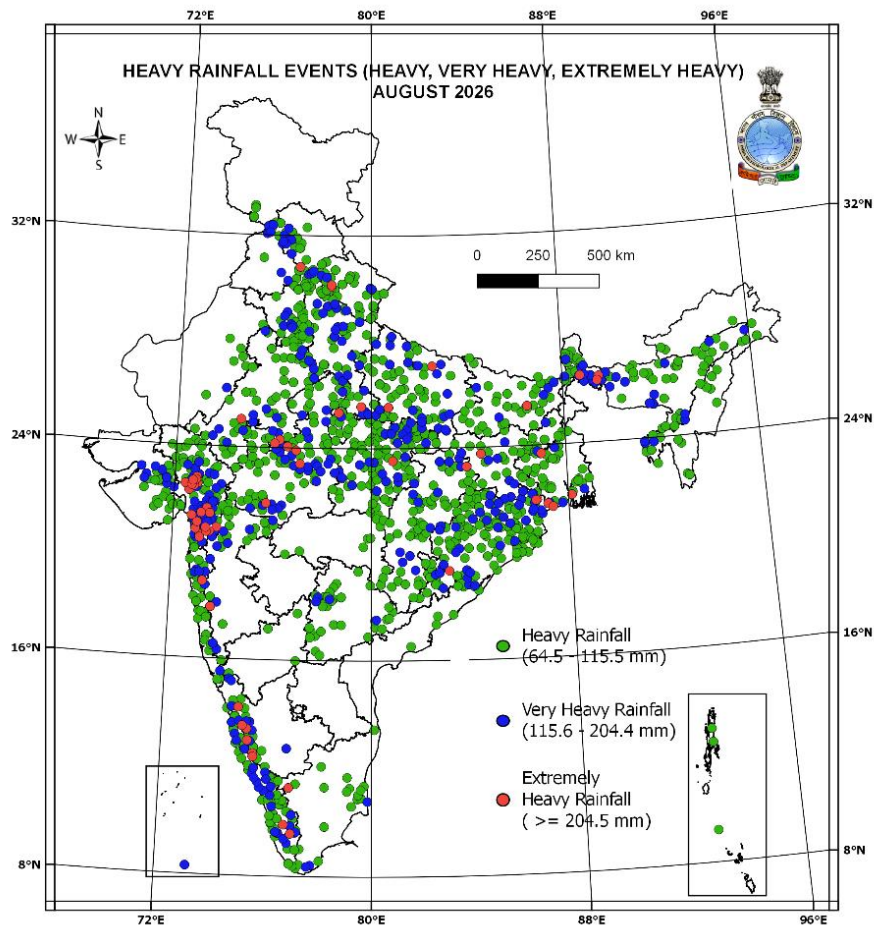


Fig 4: The location of occurrences of Heavy, Very Heavy and Extremely Heavy rainfall events in the month of August 2026.

3. Chief Synoptic weather features observed during August 2026.

Low Pressure Systems: During August 2026, seven low-pressure systems affected the Indian region. The month began with the weakening of a depression (formed during the previous month of July 2026) over southeast Rajasthan. Subsequently, a series of six low-pressure systems (LPSs) formed over the Bay of Bengal and adjoining land areas, with two intensifying into depressions and moving west-northwestward across central and northern India (Fig. 5).

1–3 August: The depression of the previous month over southeast Rajasthan weakened into an LPA and became less marked on 3 August.

7–8 August: An LPA formed over southwest Uttar Pradesh on 7 August and became less marked the following day.

8–12 August: An LPA formed over south West Bengal and north Odisha and moved west-northwestward towards north Madhya Pradesh, where it became less marked on 12 August.

12–15 August: An LPA over the North Bay of Bengal intensified into a depression over coastal West Bengal on 13 August. It subsequently weakened while moving over Jharkhand and became less marked on 15 August.

16–23 August: An LPA over the northwest Bay of Bengal intensified into a depression on 17 August and moved across Jharkhand and Bihar. It weakened over northeast Madhya Pradesh on 21 August and became less marked on 23 August.

23–29 August: An LPA developed over the northwest Bay of Bengal and moved west northwestward, becoming less marked over northeast Uttar Pradesh on 29 August.

29–31 August: Another LPA formed over the northwest Bay of Bengal on 29 August, became well marked on 30 August, and lay over Gangetic West Bengal on 31 August.

Overall, the systems during August were predominantly generated over the Bay of Bengal and followed a west-northwestward track, influencing rainfall across eastern, central and northern parts of India. There were 6 low-pressure systems formed during the month, against the climatological average of 5.38, resulting in 26 low-pressure days compared to the climatological average of 16.3 days. The details of Low-pressure systems formed in August month since 2017 are given in table below;

Year	Number of Depression	Number of Low-Pressure Systems	total	Number of Low-pressure days
2017	-	2	2	8
2018	2	2	4	8
2019	1	4	4	21
2020	-	6	6	26
2021	-	2	2	15
2022	4	-	4	19
2023	1	1	2	9
2024	3	1	4	17
2025	1	2	3	14
2026	2	4	6	26
climatology	1.6	3.7	5.38	16.3

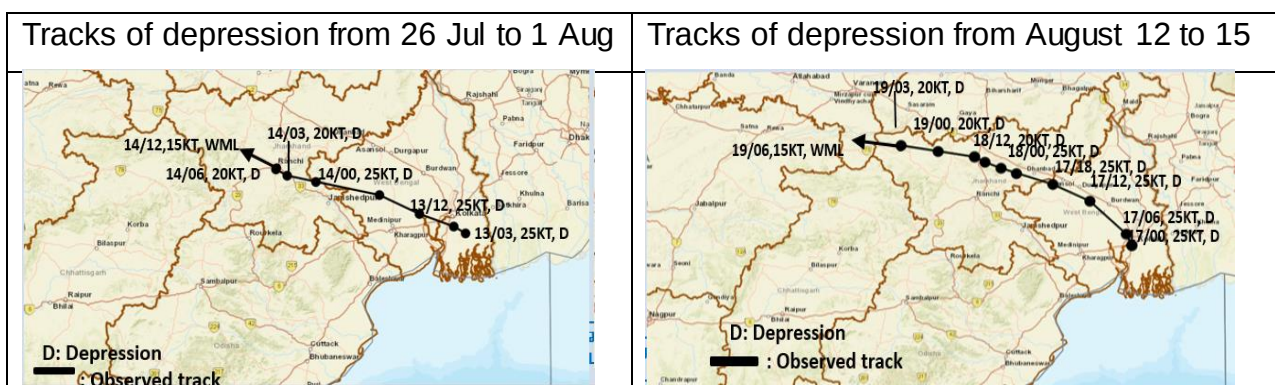


Fig. 5: Tracks of intense low-pressure systems (depressions) formed during August 2026

Western Disturbances: During August 2026, eight Western Disturbance (WD) spells affected the region, occurring during 31 July–2 August, 2–4 August, 4–8 August, 8–15 August, 16–20 August, 20–21 August, 23–26 August, and 28 August onwards. Thus, Western Disturbance activity was frequent and persistent throughout the month.

The intense rainfall events associated with western disturbances during August 2026 were mainly concentrated over eastern, east-central, and northwestern India, with comparatively less activity over West Rajasthan and Punjab. These events were primarily associated with monsoonal low-pressure systems and depressions over eastern and east-central India, as well as the interaction of Western Disturbances/westerlies with low-pressure areas and cyclonic circulations over northwest India.

There were some stations which received record rainfall (24 hours). The table below shows stations that received 24-hour record rainfall and their previous record.

24 Hours Record Rainfall				
STATION NAME	NEW	DATE	PREVIOUS	DATE
	RECORD (mm)#	(August 2026)	RECORD (mm)	
HALDIA	242.6	13-08-2026	171.8	20-08-2013
MAZBAT	144.7	05-08-2026	136.2	25-08-1977

based on real-time available data

4. Characteristics of Temperatures for the month of August 2026

The average maximum, average minimum and mean temperature for the country as a whole during August 2026 were 31.65°C, 24.35°C and 28.00°C respectively, against the normal of 31.01°C, 23.68°C and 27.34°C based on data of 1991-2020. Thus, the average maximum, average minimum and mean temperature were above normal with departure from normal of 0.65°C, 0.67°C and 0.66°C respectively for the country as a whole. The daily variation of maximum and minimum temperature departure from normal over the country as a whole for August 2026 is shown in the Fig. 6(a) and (b), respectively.

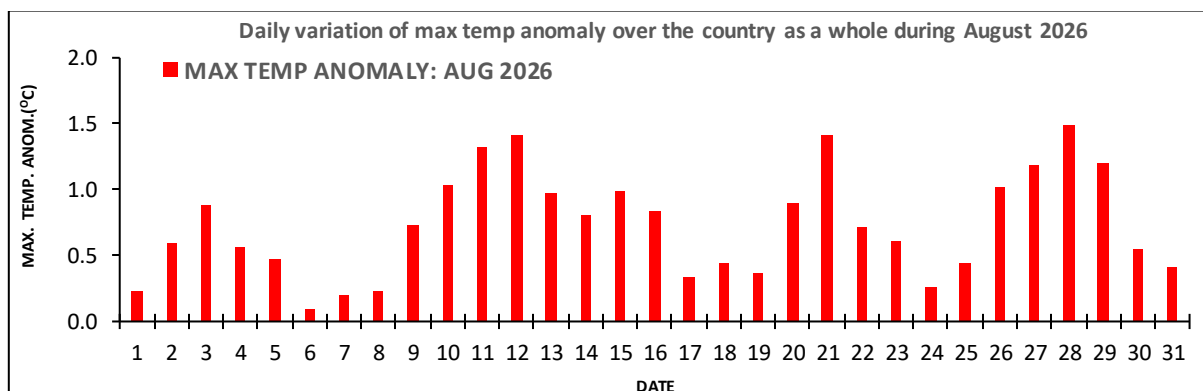


Fig. 6(a): Daily variation of maximum temperature anomaly (departure from normal) over the country as a whole for August 2026

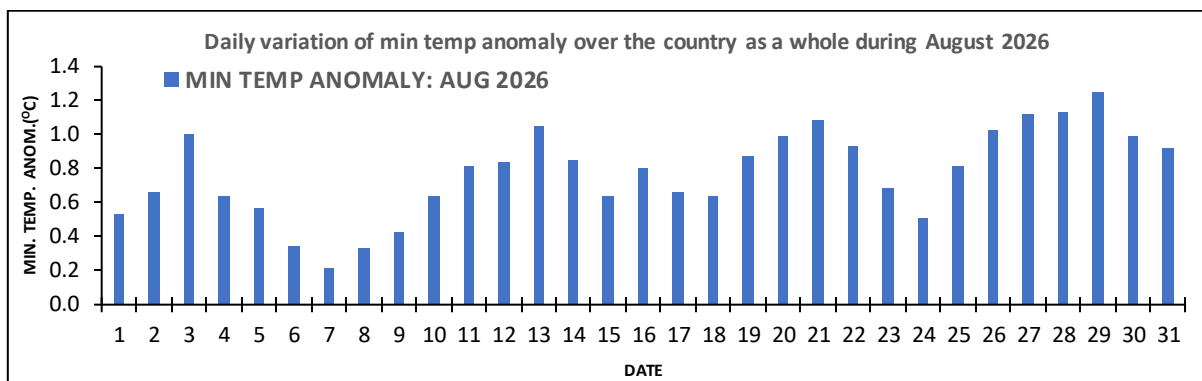


Fig. 6(b): Daily variation of minimum temperature anomaly (departure from normal) over the country as a whole for August 2026

Fig. 7 shows the time series of monthly average maximum, average minimum and mean temperature over the country as a whole for the month of August from 1901-2026. Over the country during August 2026, the average maximum temperature was the 4th highest (31.65°C with departure from normal of 0.65°C) after the years 2023 (31.87°C), 1987 (31.81°C) and 2009 (31.73°C) since 1901. The average minimum temperature was the highest at 24.35°C with departure from normal of 0.67°C since 1901 against the earlier record of 24.27°C in 2024 with departure from normal of 0.59°C. The mean temperature was the 2nd highest (28.00°C with departure from normal of 0.66°C) after the year 2023 (28.01°C) since 1901.

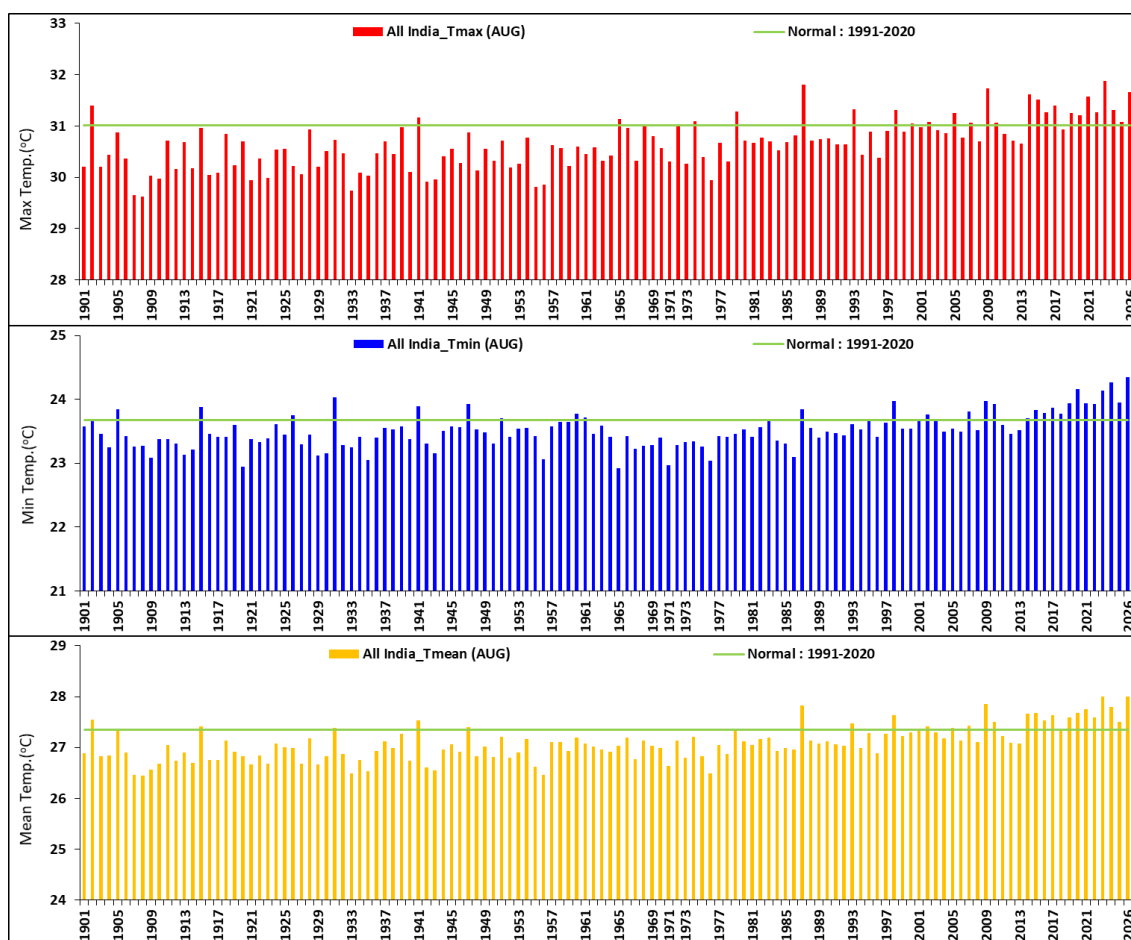


Fig. 7: Time series of monthly average maximum, average minimum and mean temperature over the country as a whole for the month of August from 1901-2026

Fig. 8 shows the time series of monthly average maximum, average minimum and mean temperature over the East & Northeast India for the month of August from 1901-2026. Over East & Northeast India during August, the average maximum temperature was the 4th highest (32.19°C with departure from normal of 1.13°C) after the years 2019 (32.50°C), 2022 (32.38°C) and 2016 (32.21°C) since 1901. The average minimum temperature was the 2nd highest (25.17°C with departure from normal of 0.72°C) after the year 2022 (25.19 °C) since 1901. The mean temperature was the 3rd highest (28.68°C with departure from normal of 0.92°C) after the years 2019 (28.79°C) and 2022 (28.78°C) since 1901.

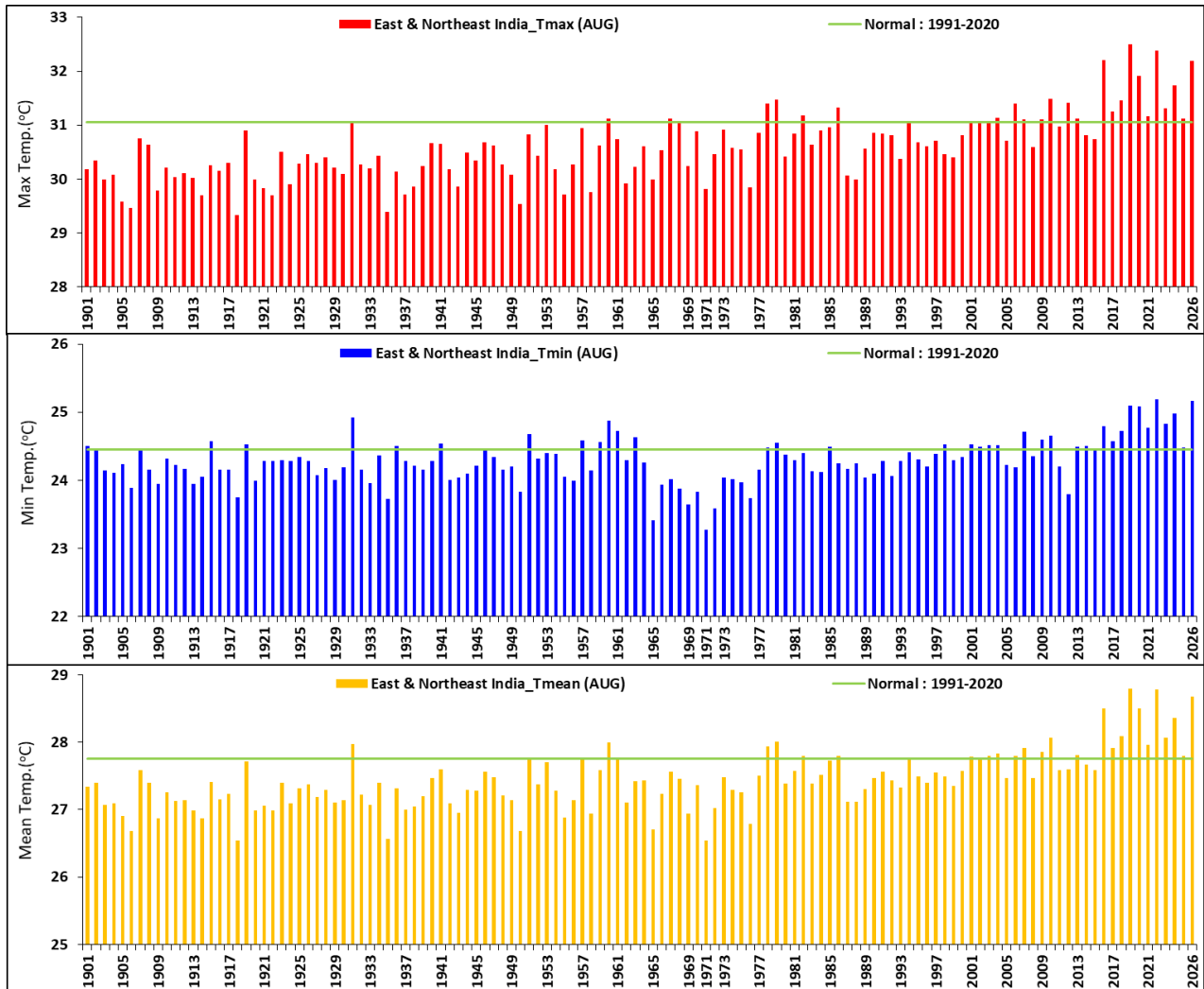


Fig. 8: Time series of monthly average maximum, average minimum and mean temperature over the East & Northeast India for the month of August 1901-2026

Fig. 9 show the time series of monthly average maximum, average minimum and mean temperature over the South Peninsular India for the month of August from 1901-2026. Over South Peninsular India during August 2026, the average maximum temperature was the 2nd highest (32.19°C with departure from normal of 1.20°C) after the year 2023 (32.88°C) since 1901. The average minimum temperature was highest at 24.25°C with departure from normal of 0.84°C since 1901 against the earlier record of 24.12°C in 2023. The mean temperature was the 2nd highest (28.22°C with departure from normal of 1.02°C) after the year 2023 (28.50°C) since 1901.

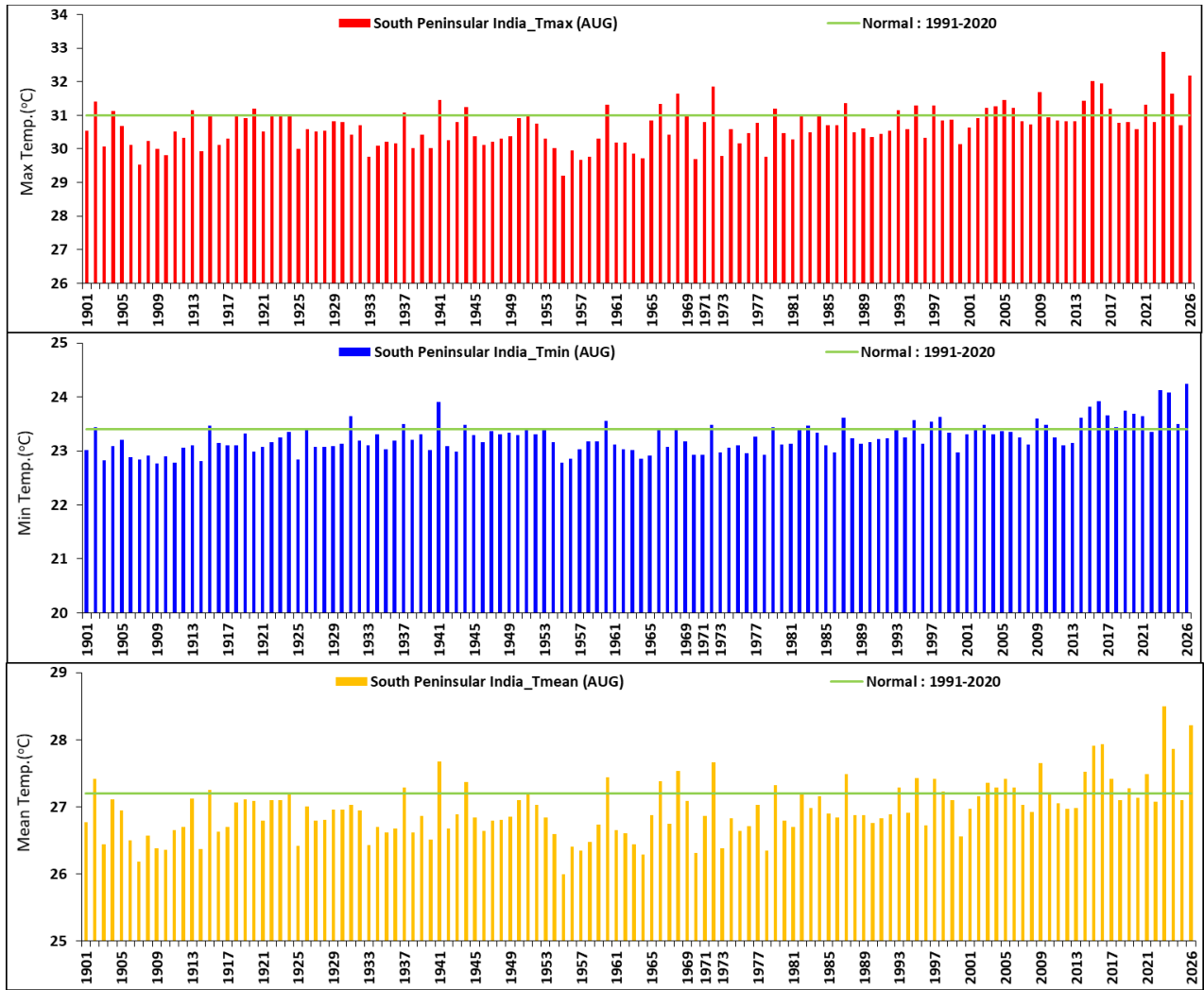


Fig. 9: Time series of monthly average maximum, average minimum and mean temperature over the South Peninsular India for the month of August from 1901-2026

Fig. 10 show the time series of monthly average minimum temperature over the Central India for the month of August from 1901-2026. Over Central India during August 2026, the average minimum temperature was the 4th highest (24.13°C with departure from normal of 0.42°C) after the years 2024 (24.26°C), 2009 (24.21°C) and 1998 (24.18°C) since 1901.

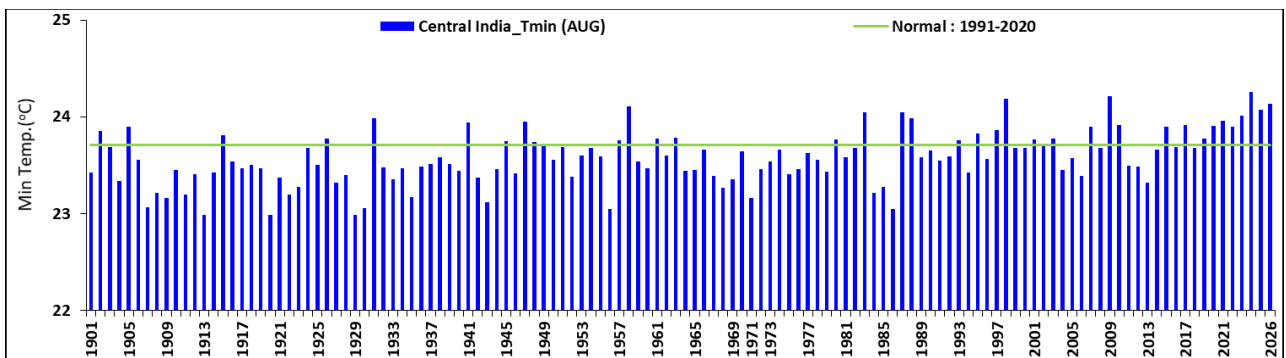


Fig. 10: Time series of monthly average minimum temperature over the Central India for the month of August from 1901-2026

Fig. 11 show the time series of monthly average minimum and mean temperature over the Northwest India for the month of August from 1901-2026. Over Northwest India during August 2026, the average minimum temperature was the 2nd highest (24.12°C with departure from normal of 0.76°C) after the year 2020 (24.23°C) since 1901. The mean temperature was the 5th highest (28.12°C with departure from normal of 0.60°C) after the years 1987 (28.58°C), 2020 (28.23°C), 2009 (28.19°C) and 1905 (28.16°C) since 1901.

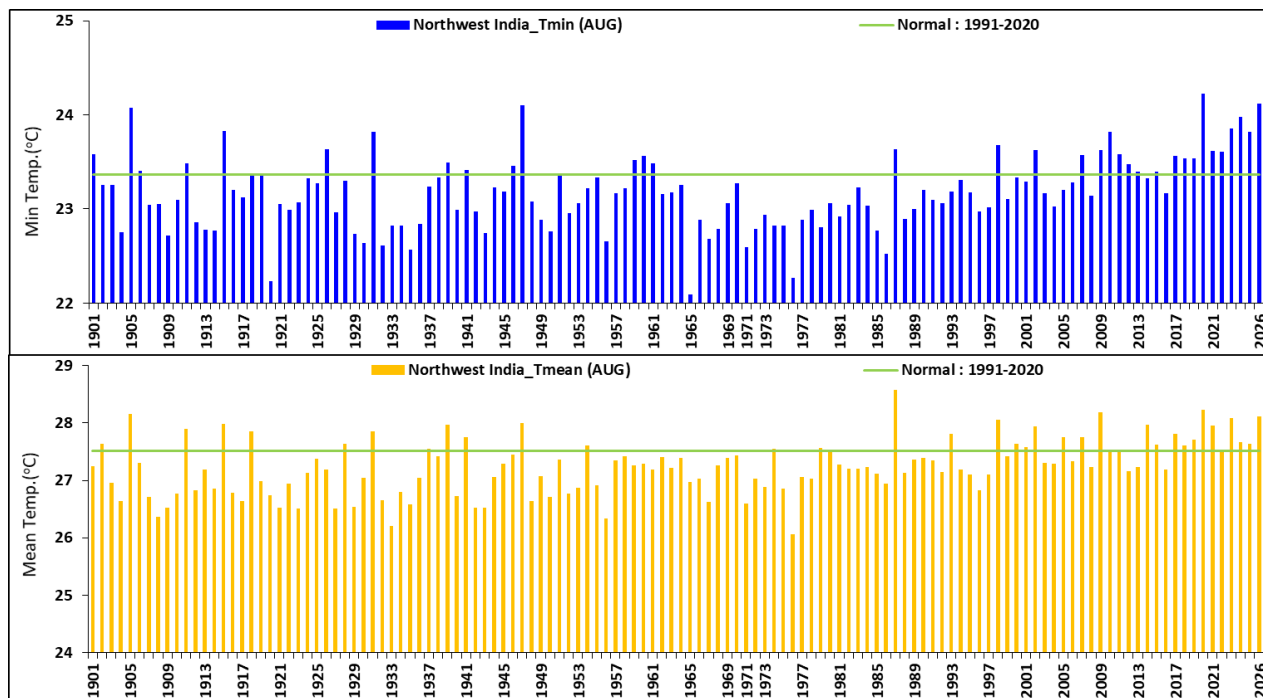


Fig. 11: Time series of monthly average minimum and mean temperature over the Northwest India for the month of August from 1901-2026

The Temperatures during August 2026 for all India and homogeneous regions with its top ranks since 1901 are given below:

AUG 2026		Max Temp (°C)	Min Temp (°C)	Mean Temp (°C)
ALL INDIA	ACTUAL	31.65	24.35	28.00
	NORMAL	31.01	23.68	27.34
	ANOMALY	0.65	0.67	0.66
	Rank since 1901	4	1	2
NORTHWEST INDIA	ACTUAL	32.11	24.12	28.12
	NORMAL	31.68	23.36	27.52
	ANOMALY	0.43	0.76	0.60
	Rank since 1901	18	2	5
EAST & NORTHEAST INDIA	ACTUAL	32.19	25.17	28.68
	NORMAL	31.06	24.45	27.76
	ANOMALY	1.13	0.72	0.92
	Rank since 1901	4	2	3
CENTRAL INDIA	ACTUAL	30.48	24.13	27.31
	NORMAL	30.33	23.71	27.02
	ANOMALY	0.15	0.42	0.29
	Rank since 1901	25	4	19
SOUTH PENINSULAR INDIA	ACTUAL	32.19	24.25	28.22
	NORMAL	30.99	23.41	27.20
	ANOMALY	1.20	0.84	1.02
	Rank since 1901	2	1	2

Note: Values are rounded off to the nearest two decimals.

Some stations ever recorded the highest maximum and lowest minimum temperature during August 2026 is given below with their previous record and date.

Highest Maximum				
STATION NAME	NEW	DATE	PREVIOUS	DATE
	RECORD (°C) #	(AUG 2026)	RECORD (°C)	
BIDAR	38	23-08-2026	36.1	16-08-1924
KAVALI	39.5 @	10-08-2026	39.5	22-08-2016
KOVILANKULAM	41	30-08-2026	40	19-08-2005
MORMUGAO	32.6 @	17-08-2026	32.6	12-08-2021
SHIMLA	27.9	12-08-2026	27.8	26-08-1951
TONDI	40.5	01-08-2026	40	03-08-2016
VELLORE	39.8	18-08-2026	39.4	04-08-1901
Lowest Minimum				
STATION NAME	NEW	DATE	PREVIOUS	DATE
	RECORD (°C) #	(AUG 2026)	RECORD (°C)	
BARABANKI	20	04-08-2026	20.6	13-08-2002
KHARGONE	16	15-08-2026	17.2	01-08-2025

Based on real-time available data

@ indicates that it equals the previous record

The five highest temperature records with corresponding top ranks since 1901 along with year of occurrence for all India, East & Northeast India, South Peninsular India (TMax, TMin and TMean), Northwest India (TMin and TMean) and Central India (TMin) are given in the tables below:

All India (August 2026)					East & Northeast India (August 2026)				
Year	TMax	Normal	Anomaly	Rank	Year	TMax	Normal	Anomaly	Rank
2023	31.87	31.01	0.86	1	2019	32.50	31.06	1.44	1
1987	31.81		0.80	2	2022	32.38		1.32	2
2009	31.73		0.72	3	2016	32.21		1.15	3
2026	31.65		0.65	4	2026	32.19		1.13	4
2014	31.61		0.60	5	2020	31.91		0.85	5

All India (August 2026)					East & Northeast India (August 2026)				
Year	TMin	Normal	Anomaly	Rank	Year	TMin	Normal	Anomaly	Rank
2026	24.35	23.68	0.67	1	2022	25.19	24.45	0.74	1
2024	24.27		0.59	2	2026	25.17		0.72	2
2020	24.16		0.49	3	2019	25.09		0.64	3
2023	24.14		0.46	4	2020	25.08		0.63	4
1931	24.03		0.36	5	2024	24.98		0.53	5

All India (August 2026)					East & Northeast India (August 2026)				
Year	TMean	Normal	Anomaly	Rank	Year	TMean	Normal	Anomaly	Rank
2023	28.01	27.34	0.66	1	2019	28.79	27.76	1.04	1
2026	28.00		0.657	2	2022	28.78		1.03	2
2009	27.85		0.51	3	2026	28.68		0.92	3
1987	27.83		0.48	4	2016	28.50		0.743	4
2024	27.79		0.45	5	2020	28.497		0.740	5

Note: Values are rounded off to the nearest two decimals.

South Peninsular India (August 2026)					Northwest India (August 2026)				
Year	TMax	Normal	Anomaly	Rank	Year	TMin	Normal	Anomaly	Rank
2023	32.88	30.99	1.89	1	2020	24.23	23.36	0.86	1
2026	32.19		1.20	2	2026	24.12		0.76	2
2015	32.01		1.02	3	1947	24.10		0.74	3
2016	31.96		0.97	4	1905	24.07		0.71	4
1972	31.85		0.86	5	2024	23.98		0.62	5

South Peninsular India (August 2026)					Northwest India (August 2026)				
Year	TMin	Normal	Anomaly	Rank	Year	TMean	Normal	Anomaly	Rank
2026	24.25	23.41	0.84	1	1987	28.58	27.52	1.06	1
2023	24.12		0.71	2	2020	28.23		0.71	2
2024	24.09		0.68	3	2009	28.19		0.67	3
2016	23.92		0.51	4	1905	28.16		0.64	4
1941	23.90		0.49	5	2026	28.12		0.60	5

South Peninsular India (August 2026)					Central India (August 2026)				
Year	TMean	Normal	Anomaly	Rank	Year	TMin	Normal	Anomaly	Rank
2023	28.50	27.20	1.30	1	2024	24.26	23.71	0.55	1
2026	28.22		1.02	2	2009	24.21		0.50	2
2016	27.94		0.74	3	1998	24.18		0.47	3
2015	27.91		0.71	4	2026	24.13		0.42	4
2024	27.87		0.67	5	1958	24.10		0.39	5

Note: Values are rounded off to the nearest two decimals.

The observed spatial temperature pattern of monthly average maximum, average minimum and mean temperature over India and their departures from normal (1991 to 2020 period) for the month of August 2026 is given in Fig. 12.

TEMPERATURE & ITS ANOMOLY FOR THE MONTH AUGUST 2026

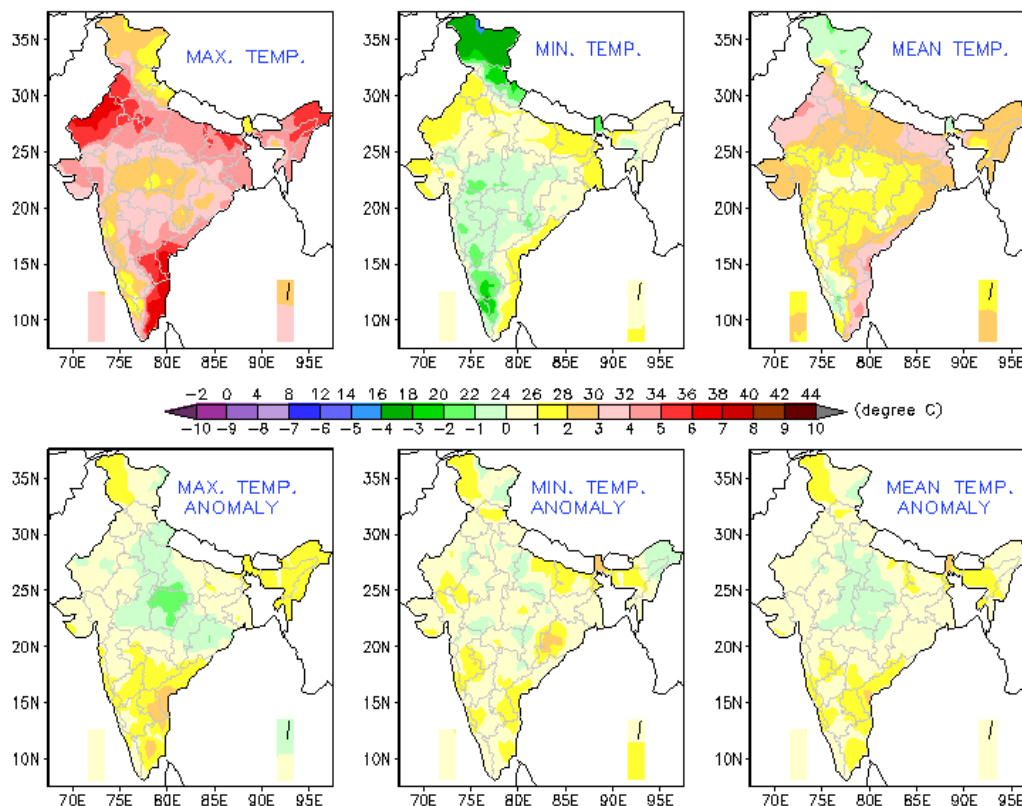


Fig. 12: Observed spatial temperature pattern of monthly average maximum, average minimum, and mean temperature over India (top three from left to right) and their departure from normal (1991 to 2020 period) for August 2026 (lower three from left to right)

5. Significant Weather Events:

During August 2026, Extremely Heavy Rainfall reported in following districts:-

Bihar: (Khagaria)

Chattisgarh: (Balrampur)

Gujarat: (Anand, Bharuch, Dangs, Kheda, Navsari, Surat, Tapi, Valsad)

Haryana: (Panchkula)

Jharkhand: (Latehar)

Karnataka: (Chikkamangaluru, Dakshin Kannada, Kodagu, Shivamoga)

Kerala: (Idukki)

Madhya Pradesh: (Khargone, Rajgarh, Sehore, Niwari, Umaria)

Maharashtra: (Raigad, Satara)

Odisha: (Balasore, Mayurbhanj, Rayagada)

Rajasthan (Chittorgarh, Jhalawar)

Tamil Nadu: (Nilgiris)

Uttar Pradesh: (Banda, Hamirpur, Siddharthnagar)

Uttarakhand: (Dehradun, Garhwal Tehri)

West Bengal: (Burdwan, Cooch Behar, East Midnapore, Jalpaiguri)