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गुवाहाटी - ७८१०१५/Guwahati - 781015

Monthly Weather Report of Assam April 2026

Significant Weather Observations

- This month 11 days heavy rainfall events with thunderstorm occurred in Assam.
- From 19th, 20th and 27th April very heavy rainfall events have been observed over Assam.

Key Points for the Month

During this month the highest maximum temperature was recorded **34.9 °C** at NORTH LAKHIMPUR on 24.04.26 and the lowest minimum temperature was recorded **15.2 °C** at DIBRUGARH on 11.04.26 in Assam.

Significant Synoptic Conditions

- ❖ An Upper Air Cyclonic Circulation Persisted over central Assam on 2nd, shifted to northeast Assam on 3rd, became less marked on 4th. Re-emerged over central Assam with a westerly trough aloft on 7th, persisted on 8th–9th, shifted to northeast Assam on 10th, seen as a trough on 11th, moved away eastwards on 12th. Re-appeared over central Assam on 13th, became less marked on 14th. A circulation over east Assam on 19th shifted to northeast Assam on 20th, became less marked on 21st, re-appeared on 22nd and became less marked on 23rd. A circulation over central Assam at 3.1 km was noted on 27th.
- ❖ Subtropical Westerly Jet Stream Prevailed over Northeast India on 2nd, shifted to Central & East India on 5th, East India on 6th, returned to Northeast India on 7th. Seen at 90–110 knots over Central & Northeast India on 22nd, 90–120 knots on 23rd, weakening to 80–90 knots on 24th, 80 knots on 25th, and 60–75 knots on 27th.
- ❖ Circulation over East Bihar became less marked on 2nd. One over Sub-Himalayan West Bengal appeared on 3rd, became less marked on 4th. Re-appeared on 21st, became less marked on 22nd. Another appeared on 28th, merged with the east-west trough on 29th.
- ❖ A trough from northwest Bihar to Manipur across Sub-Himalayan West Bengal, North Bangladesh, Meghalaya, and Southeast Assam appeared on 4th, became less marked on 5th. Another from northwest Uttar Pradesh to Manipur appeared on 8th–9th, became less marked on 10th. Subsequent troughs ran from northeast Uttar Pradesh/Bihar to Manipur, persisting through 11th–14th, becoming less marked on 14th. Troughs continued recurrently through 15th–20th across Bihar, Gangetic West Bengal, Bangladesh, and Assam at 0.9–1.5 km. On 27th–29th, troughs ran from northwest/southeast Uttar Pradesh to Manipur/Nagaland across Bihar, Jharkhand, north Gangetic West Bengal, Bangladesh, and south Assam.
- ❖ A trough from interior Odisha to Gulf of Mannar was active 10th–12th, becoming insignificant for Northeast region on 12th. Another from south Assam to south Tamil Nadu appeared on 14th, became insignificant for Northeast on 15th. A trough along Long. 89°E north of Lat. 23°N appeared on 14th, moved eastwards on 16th. North-south trough from east Bihar to southwest Madhya Pradesh persisted on 21st, became less marked on 22nd.
- ❖ Circulation over Chhattisgarh appeared on 4th, shifted to north Odisha, became less marked on 5th. Re-appeared over Chhattisgarh on 8th. Circulation over Odisha persisted on 7th–9th, merged with north-south trough on 10th. Over north Odisha on 12th, became less marked on 13th. Over northeast Bihar on 13th, shifted to Jharkhand/Gangetic West Bengal on 14th. Over east Bihar on 25th, shifted to northeast Jharkhand on 26th.
- ❖ Circulation over Bangladesh appeared on 9th, became less marked on 10th. Over northeast Bangladesh on 18th, persisted through 20th, became less marked on 21st. Re-appeared on 23rd, became less marked on 24th. Persisted on 27th, merged with east-west trough on 28th. Re-appeared extending upto 5.8 km on 29th.
- ❖ Trough along Long. 93°E appeared on 6th at 1.5 km, strengthened with circulation over central Assam on 7th. Various troughs along Long. 89°E, 90°E, 92°E, and 93°E at 1.5–5.8 km were observed between 22nd and 29th, with axes shifting and weakening progressively.
- ❖ Circulation over North Chhattisgarh appeared on 21st, became less marked on 22nd. Trough from north Bihar to south Chhattisgarh appeared on 17th, became less marked on 18th.

1. Rainfall Summary of the Month

During April, the mean rainfall across most parts of Assam remained below 35 mm, while isolated pockets in Northeast Assam recorded relatively higher amounts, with the mean reaching up to 64.5 mm (Figure 1). The observed monthly distribution of rainfall over Assam is wide spread.

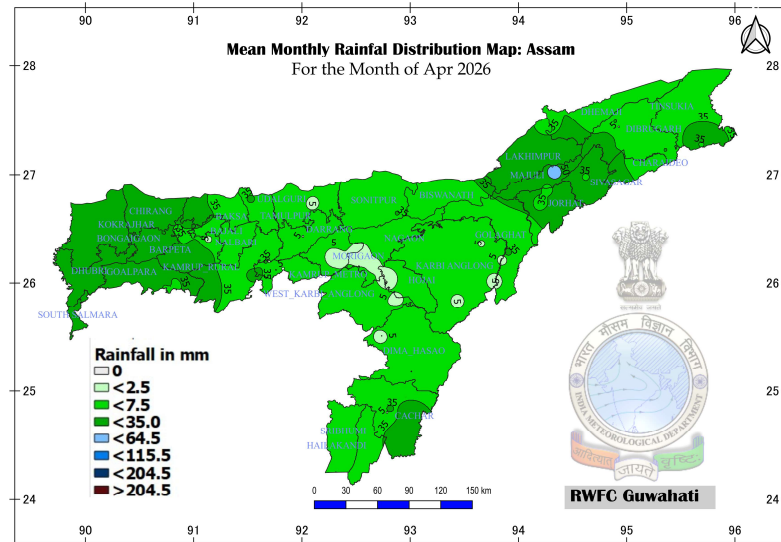


Figure 1 Spatial distribution of mean rainfall over Assam in the month of April 2026.

The accumulated rainfall of 1 cm to 50 cm has been reported over Assam. The highest rainfall observed over West and South Assam.

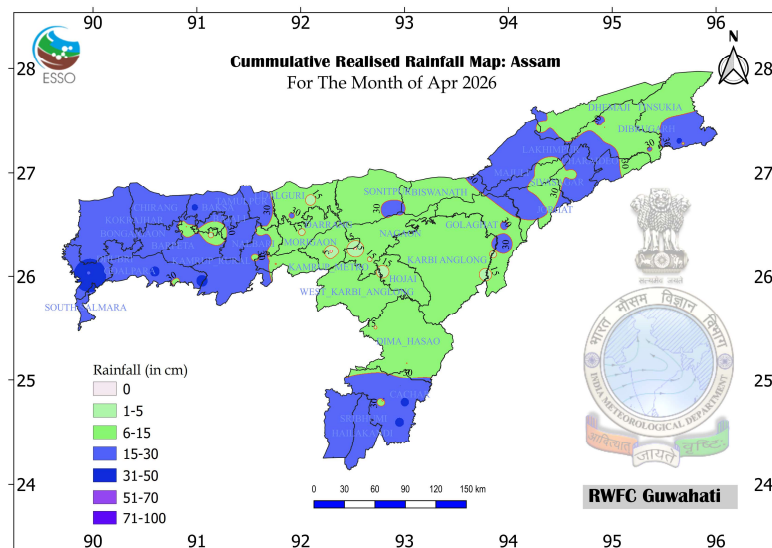


Figure 2 Spatial distribution of accumulated rainfall over Assam in the month of April 2026

1.1 Rainy Days

As per IMD definition for rainy days when daily rainfall is more than 2.4 mm, it is declared as rainy day. West Assam, South Assam and isolated pockets of Northeast Assam recorded a higher frequency of rainy days, ranging between 15 and 20 days. In contrast, Central Assam and parts of West Assam experienced comparatively fewer rainy days, with the count ranging from 5 to 10 days.

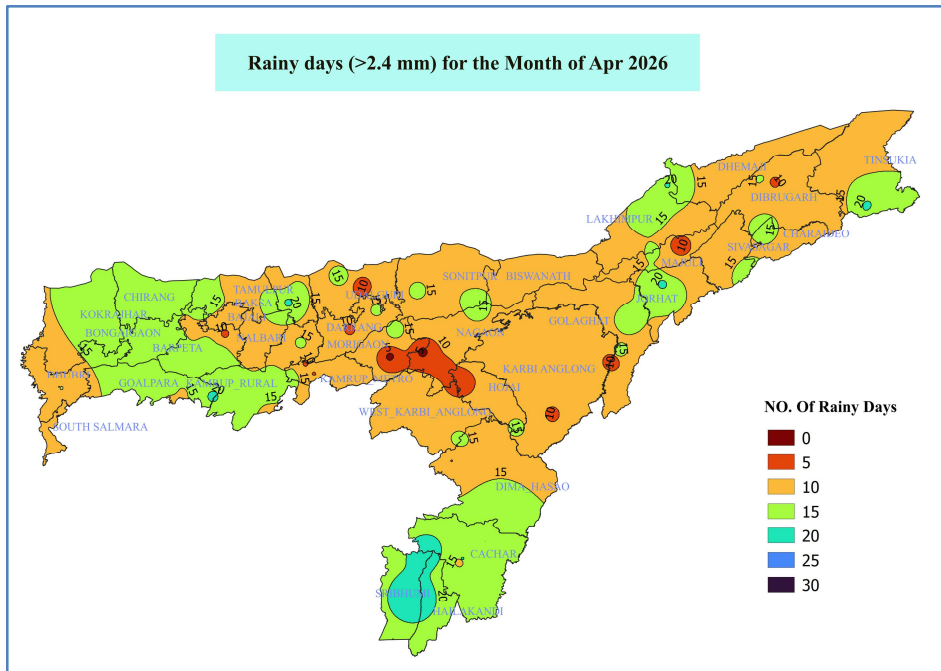


Figure 3 Spatial distributions of rainy days in the month of April 2026

Criteria of declaring a day as rainy has been given in the end of this report under legends section.

1.2 Heavy to Extremely Heavy Rainfall Activity

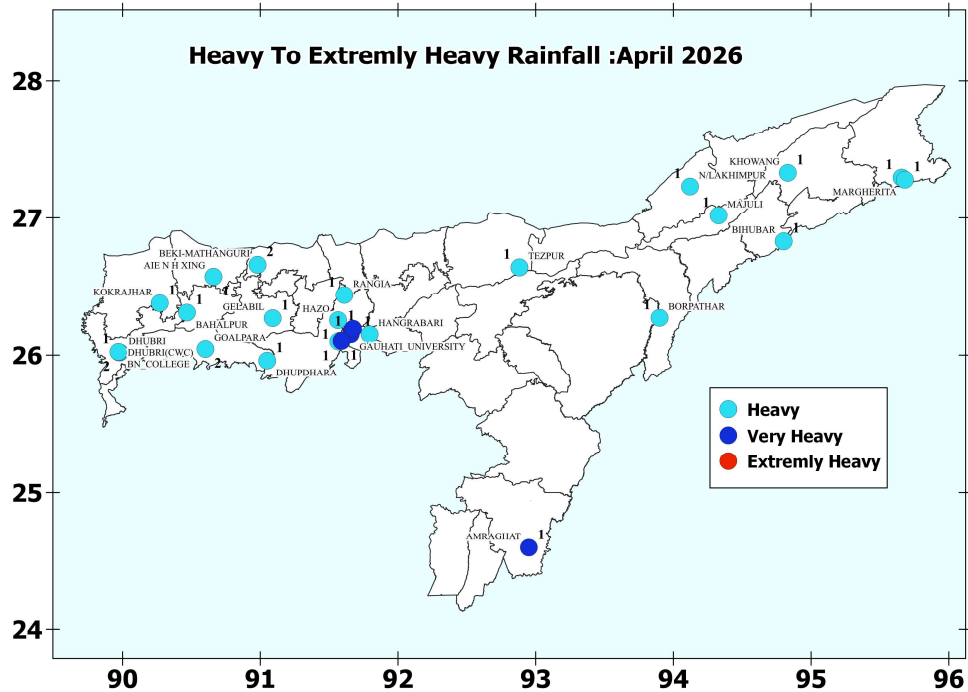


Figure 4 Spatial distribution of heavy to very heavy rainfall over Assam in the month of April. The labels on each station represent the number of event (days) and shaded circles shows the category of the rainfall (mm) during the event.

Over South and West Assam 4 very heavy rainfall events have been noted. Total 24 events of heavy rainfall have been observed as shown in figure 4.

2. Temperature Summary of the month

2.1 Maximum Temperature

Table 1 Mean monthly maximum temperature and their departure from normal

Station	Mean Maximum Temperature (°C)	Departure From Normal	NO. OF DAYS WITH MAXIMUM TEMPERATURE (°C)						
			Normal	AN	BN	AAN	ABN	MAN	MBN
Guwahati	30.6	-0.3	12	5	7	3	2	0	1
Dibrugarh	26.9	-0.8	9	1	4	3	4	4	5
Silchar	30.8	-1.6	15	2	5	1	3	0	4
Tezpur	29.3	-0.9	8	6	8	2	4	0	2
North Lakhimpur	28.1	+0.2	9	2	6	3	5	4	1
Dhubri	29.5	-1.7	12	2	6	1	5	0	4

During this month the highest maximum temperature was recorded 34.9 °C at NORTH LAKHIMPUR on 24.04.26 and the lowest minimum temperature was recorded 15.2 °C at DIBRUGARH on 11.04.26 in Assam.

The highest (lowest) anomalous maximum temperature was observed over Dhubri (North Lakhimpur) stations as shown in Table 1. The highest (lowest) anomalous minimum temperature was observed over Guwahati (Dibrugarh) stations in this month as shown in Table 2



Figure 3 Comparison of the observed maximum temperatures and the pentad normal temperatures for April 2026 across Assam. Each subplot shows the daily maximum temperature in orange bars, while the black line indicates the normal values for the respective periods.

2.2 Minimum Temperature

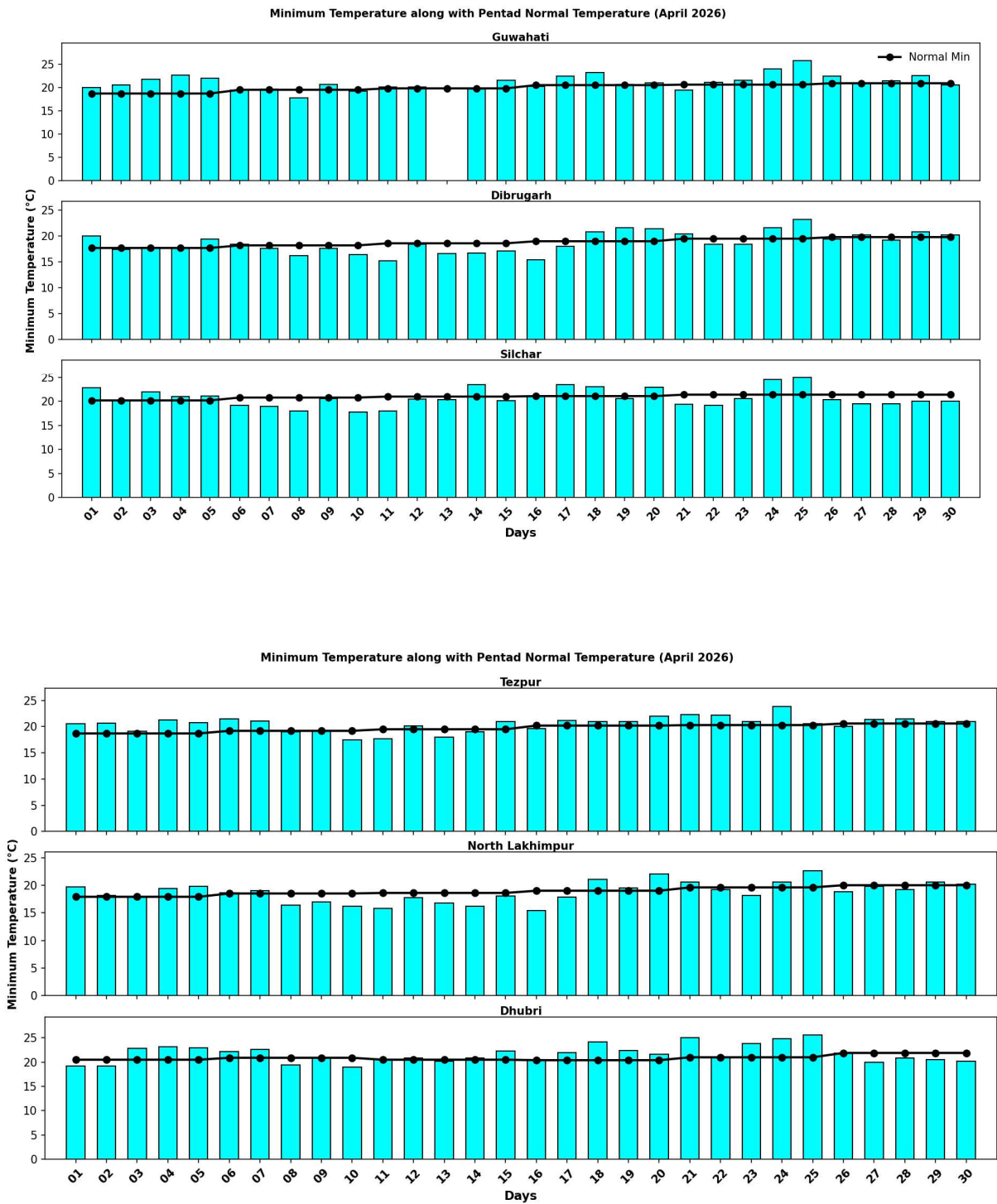


Figure 4 Comparison of the observed minimum temperatures and pentad normal temperatures for April 2026 across Assam. Each subplot shows the daily minimum temperature in blue bars, while the red line indicates the normal values for the respective periods.

Station	Mean Minimum Temperature (°C)	Departure From Normal	NO. OF DAYS WITH MINIMUM TEMPERATURE (°C)						
			Normal	AN	BN	AAN	ABN	MAN	MBN
Guwahati	21.1	+1.1	18	5	1	4	0	1	0
Dibrugarh	18.7	-0.1	17	6	4	1	2	0	0
Silchar	20.8	-0.2	13	6	9	2	0	0	0
Tezpur	20.5	+0.8	18	9	2	1	0	0	0
North Lakhimpur	18.7	-0.2	19	5	5	0	1	0	0
Dhubri	21.7	+0.8	15	8	3	4	0	0	0

Table 2 Mean monthly minimum temperatures and their departures from normal

3.Special Weather Event Summary of the Month.

3.1 Thunderstorm Events:

Thunderstorm events were reported in multiple locations across Assam as shown in Table 3

Table 3: Thunderstorm events in Assam (April 2026)

Date	Station
01.03.2026	Guwahati, Dhubri, Jorhat
02.03.2026	Guwahati, Tezpur, Silchar, Jorhat, Dhubri, Lakhimpur
03.03.2026	Jorhat
04.04.2026	Guwahati, Silchar, Jorhat
05.04.2026	Tezpur, Silchar, Jorhat
06.04.2026	Dibrugarh, Silchar, Jorhat
07.04.2026	Guwahati, Tezpur, Silchar, Jorhat, Dibrugarh
08.04.2026	Guwahati, Silchar, Jorhat, Lakhimpur
09.04.2026	Guwahati
10.04.2026	Guwahati, Tezpur, Jorhat, Lakhimpur
11.04.2026	Guwahati

Date	Station
13.04.2026	Dibrugarh, Jorhat, Silchar
14.04.2026	Jorhat
15.04.2026	Silchar, Dibrugarh
16.04.2026	Guwahati, Tezpur, Dhubri, Jorhat
17.04.2026	Tezpur, Dhubri
18.04.2026	Silchar, Dhubri
19.04.2026	Guwahati, Tezpur, Jorhat, Dhubri
22.04.2026	Guwahati, Tezpur, Jorhat, Dhubri, Lakhimpur
23.04.2026	Guwahati, Tezpur, Jorhat, Lakhimpur, Silchar
25.04.2026	Jorhat, Tezpur, Lakhimpur
26.04.2026	Guwahati, Tezpur, Jorhat, Dhubri, Lakhimpur, Silchar
27.04.2026	Guwahati, Dhubri, Silchar
28.04.2026	Dhubri, Silchar
29.04.2026	Guwahati, Tezpur, Dhubri, Silchar
30.04.2026	Guwahati, Dhubri

3.2 Hail Storm Events:

Two hailstorm events were reported during the month — one at Thiu on 08 April 2026 (as per media report) and another at Guwahati on 23 April 2026.

Legends

Spatial rainfall distribution:

% Stations reporting Rainfall	Category
76-100	Widespread (WS/ most places)
51-75	Fairly Widespread (FWS/ many places)
26-50	Scattered (SCT/ few places)
1 -25	Isolated (ISOL/ one or two places)
No Rain	Dry

Rainfall intensity:

24-hr accumulated rainfall (cm/day)	Category
Upto 1	Light rain
2-6	Moderate rain
7-11	Heavy rain
12-20	Very heavy rain
≥ 21	Extremely heavy rain

Description of rainfall with respect to normal:

Rainfall percentage departure from normal	Category
≥ +60%	Large excess
+20% to +59%	Excess
-19% to +19%	Normal
-20% to -59%	Deficient
≤ -60%	Largely deficient