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 गुवाहाटी - ७८१०१५/Guwahati - 781015

# SEASONAL WEATHER REPORT OF ASSAM

Winter Season · January – February 2026

## Significant Weather Observations

Shallow to moderate fog (*visibility 200–999 m*) prevailed over Assam on **forty-four days** during this season, while **dense fog** (*visibility 50–199 m*) occurred on **eleven days** and **very dense fog** (*visibility below 50 m*) was recorded on **three days**.

## Key Points for this Season

During this season the highest maximum temperature was recorded **33.6°C** at SILCHAR on 19.02.26 and the lowest minimum temperature was recorded **6.6°C** at NORTH LAKHIMPUR on 07.01.26 in Assam.

## Significant Synoptic Conditions

### January

- ▶ An upper air cyclonic circulation lay over Northwest Bangladesh & adjoining Sub-Himalayan West Bengal at 1.5 km above mean sea level on 2nd, moved to east Bangladesh and neighbourhood on 3rd, persisted on 4th, and became less marked on 5th. Another upper air cyclonic circulation lay over northeast Assam & neighbourhood at 3.1 km above mean sea level on 2nd, persisted on 3rd, and became less marked on 4th.
- ▶ A cyclonic circulation lay over Tripura & neighbourhood extending up to 1.5 km above mean sea level on 6th, moved to Tripura and adjoining Bangladesh on 7th, and became less marked on 8th. A cyclonic circulation lay over North East Assam and neighbourhood at 3.1 km above mean sea level on 8th, persisted on 9th, and continued between 1.5 and 3.1 km above mean sea level on 10th.
- ▶ Subtropical Westerly Jet Stream with core winds of 105 knots at 12.6 km above mean sea level prevailed over Northeast India on 11th, 100 knots on 12th, and 110 knots on 14th. Mainly easterly/north-easterly winds prevailed on 13th and 16th.
- ▶ An upper air cyclonic circulation lay over North East Assam and neighbourhood at 1.5 km above mean sea level on 15th. A cyclonic circulation lay over the same region on 18th, became less marked on 19th, and persisted on 21st and 22nd.
- ▶ Subtropical Westerly Jet Stream with core winds of 145 knots at 12.6 km above mean sea level prevailed over Northeast India on 17th and 22nd, 135 knots on 18th and 27th, 125 knots on 19th, 120 knots on 21st, and 130 knots on 25th and 29th.

- ▶ Mainly easterly/north-easterly winds prevailed on 23rd, 24th, and 31st January. A trough in westerlies with its axis at 3.1 km above mean sea level ran roughly along Long. 93°E to the north of Lat. 24°N on 26th and became less marked on 27th.
- ▶ A cyclonic circulation lay over Northeast Bihar & neighbourhood extending up to 1.5 km above mean sea level on 28th and became less marked on 29th. An upper air cyclonic circulation lay over North East Assam at 0.9 km above mean sea level on 29th and 30th, and became less marked on 31st January.

## February

- ▶ Subtropical Westerly Jet Stream with core winds of 125 knots at 12.6 km msl prevailed over Northeast India on 1st, 130 knots on 2nd–3rd, 140 knots on 4th, 125 knots on 5th & 10th, 130 knots on 6th & 11th, 120 knots on 7th, 140 knots on 9th, 130 knots on 12th–14th & 16th & 19th, 115 knots on 17th–18th, 95 knots on 20th & 22nd, 100 knots on 23rd, 105 knots on 24th, 95 knots on 25th February 2026.
- ▶ An upper air cyclonic circulation lay over northeast Assam at 1.5 km above mean sea level on 5th February, becoming less marked on 6th.
- ▶ An upper air cyclonic circulation seen over northeast Bangladesh & neighbourhood at 1.5 km on 8th, shifting to southeast Bangladesh & neighbourhood at 1.5 km on 9th–10th.
- ▶ Another lay over northeast Assam at 1.5 km on 11th; over northeast Assam at 3.1 km on 13th, persisted over northeast Assam & neighbourhood at 1.5 km on 14th, less marked on 15th.
- ▶ On 22nd, an upper air cyclonic circulation was over west Assam & neighbourhood at 3.1 km, shifting to central Assam & neighbourhood up to 1.5 km on 23rd, less marked on 24th. Further, over northeast Assam & neighbourhood at 3.1 km on 24th, then over south Assam at 1.5 km on 25th; over Gangetic West Bengal adjoining north coastal Odisha at 1.5 km on 24th, less marked on 25th February.
- ▶ The trough in lower level westerlies with axis at 1.5 km above mean sea level roughly along Lat. 93°E to north of Long. 24°N persisted on 26th.
- ▶ The upper air cyclonic circulation over northeast Assam & neighbourhood persisted at 0.9 km above mean sea level on 28th; the trough with axis at 1.5 km above mean sea level roughly along Long. 92°E to north of Lat. 23°N persisted on 28th February 2026.

## 1. Rainfall Summary of the Season

The mean rainfall during January was less than 2.5 mm, observed over Northeast Assam (Figure 1a). During February, mean rainfall below 2.5 mm was recorded over Northeast Assam and isolated pockets of Central Assam (Figure 1b). The overall seasonal distribution of rainfall across Assam was isolated.

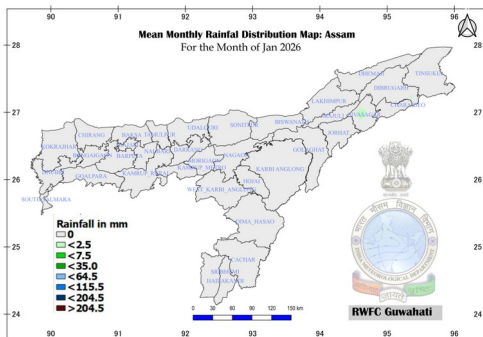


Figure 1(a) Mean rainfall — January 2026

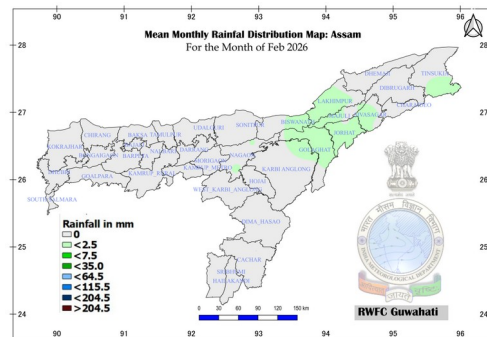


Figure 1(b) Mean rainfall — February 2026

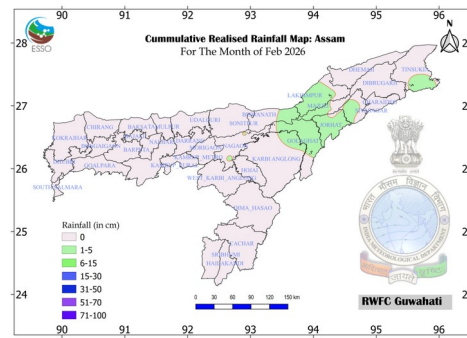
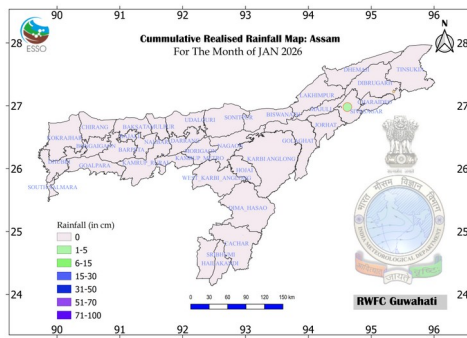


Figure 2(a) Accumulated rainfall — January 2026    Figure 2(b) Accumulated rainfall — February 2026

Accumulated rainfall of less than 5 cm was reported over Northeast Assam and isolated pockets of Central Assam during the season.

### Rainy Days

Per IMD definition, a rainy day is declared when daily rainfall exceeds 2.4 mm. No rainy days were recorded during January (Figure 3a). Fewer than five rainy days were recorded in parts of Northeast Assam during February (Figure 3b).

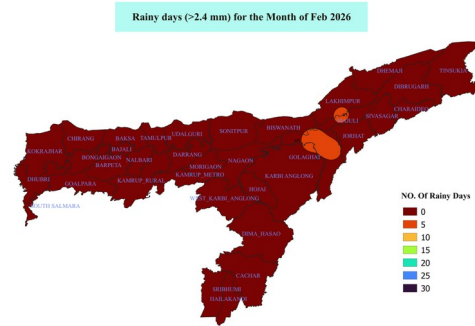
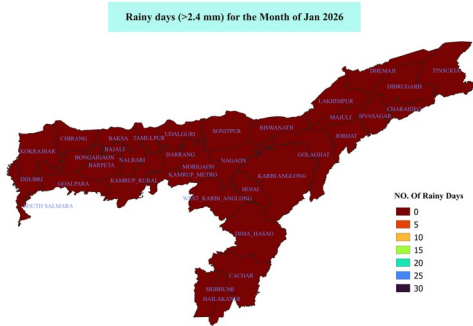


Figure 3(a) Rainy days — January 2026

Figure 3(b) Rainy days — February 2026

## 2. Temperature Summary of the Season

### 2.1 Maximum Temperature

Table 1(a): Mean monthly maximum temperature and departure from normal — January 2026

Station	Mean Temp (°C)	Departure	NO. OF DAYS WITH TEMPERATURE (°C)						
			Normal	AN	BN	AAN	ABN	MAN	MBN
Guwahati	25.9	+2.3	8	7	1	15	0	0	0
Dibrugarh	26.4	+3.5	4	6	0	17	0	4	0
Silchar	26.6	+1.0	6	16	3	3	2	0	1
Tezpur	25.2	+1.5	7	15	3	5	1	0	0
North Lakhimpur	27.3	+4.2	3	2	0	16	0	10	0
Dhubri	23.8	+0.9	8	17	1	2	2	0	1

Table 1(b): Mean monthly maximum temperature and departure from normal — February 2026

Station	Mean Temp (°C)	Departure	NO. OF DAYS WITH TEMPERATURE (°C)						
			Normal	AN	BN	AAN	ABN	MAN	MBN
Guwahati	29.3	+3.2	2	9	0	16	0	1	0
Dibrugarh	28.8	+4.8	3	3	0	7	0	15	0
Silchar	29.6	+1.8	13	10	0	5	0	0	0
Tezpur	28.6	+2.7	6	11	0	10	0	1	0
North Lakhimpur	29.1	+5.3	0	2	2	6	0	18	0
Dhubri	28.2	+1.9	10	16	0	2	0	0	0

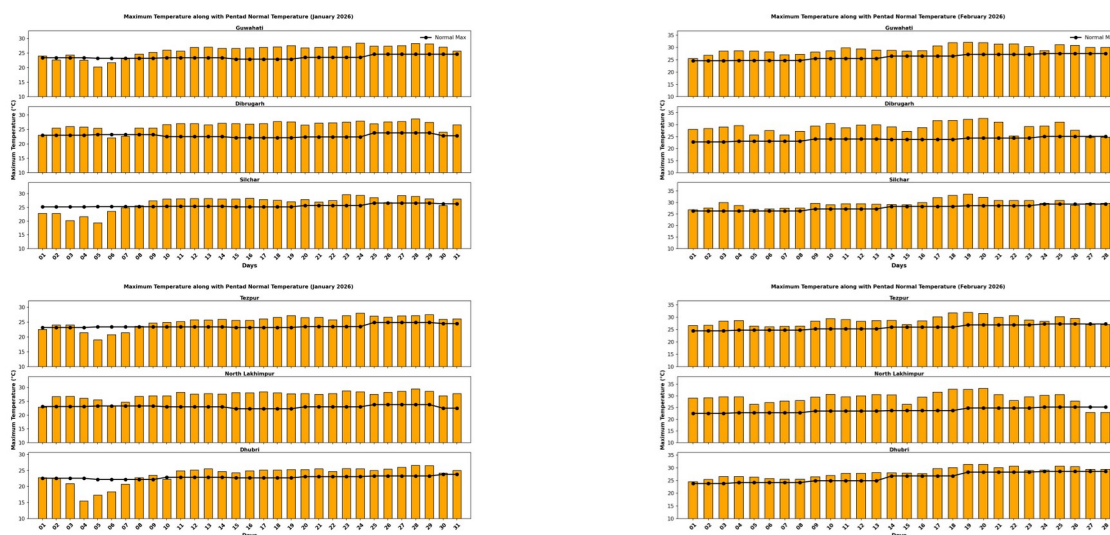


Figure 3 — Observed maximum temperatures vs. pentad normals for January & February 2026 across Assam stations. Orange bars = daily maximum temperature; black line = normal values.

## 2.2 Minimum Temperature

Table 2(a): Mean monthly minimum temperature and departure from normal — January 2026

Station	Mean Temp (°C)	Departure	NO. OF DAYS WITH TEMPERATURE (°C)						
			Normal	AN	BN	AAN	ABN	MAN	MBN
Guwahati	14.8	+2.6	2	17	0	9	0	0	0
Dibrugarh	12.8	+0.6	22	5	0	1	0	0	0
Silchar	14.2	+1.6	15	9	0	4	0	0	0
Tezpur	14.5	+0.9	20	7	0	1	0	0	0
North Lakhimpur	11.6	-0.4	18	4	6	0	0	0	0
Dhubri	16.0	+2.4	4	16	0	8	0	0	0

Table 2(b): Mean monthly minimum temperature and departure from normal — February 2026

Station	Mean Temp (°C)	Departure	NO. OF DAYS WITH TEMPERATURE (°C)						
			Normal	AN	BN	AAN	ABN	MAN	MBN
Guwahati	13.2	+2.6	5	16	0	9	0	1	0
Dibrugarh	10.2	+1.0	23	6	0	2	0	0	0

Station	Mean Temp (°C)	Departure	NO. OF DAYS WITH TEMPERATURE (°C)						
			Normal	AN	BN	AAN	ABN	MAN	MBN
Silchar	13.3	+3.0	4	11	0	15	0	1	0
Tezpur	12.3	+0.9	22	8	0	1	0	0	0
North Lakhimpur	9.3	+0.1	26	4	1	0	0	0	0
Dhubri	13.0	+1.2	16	13	1	1	0	0	0

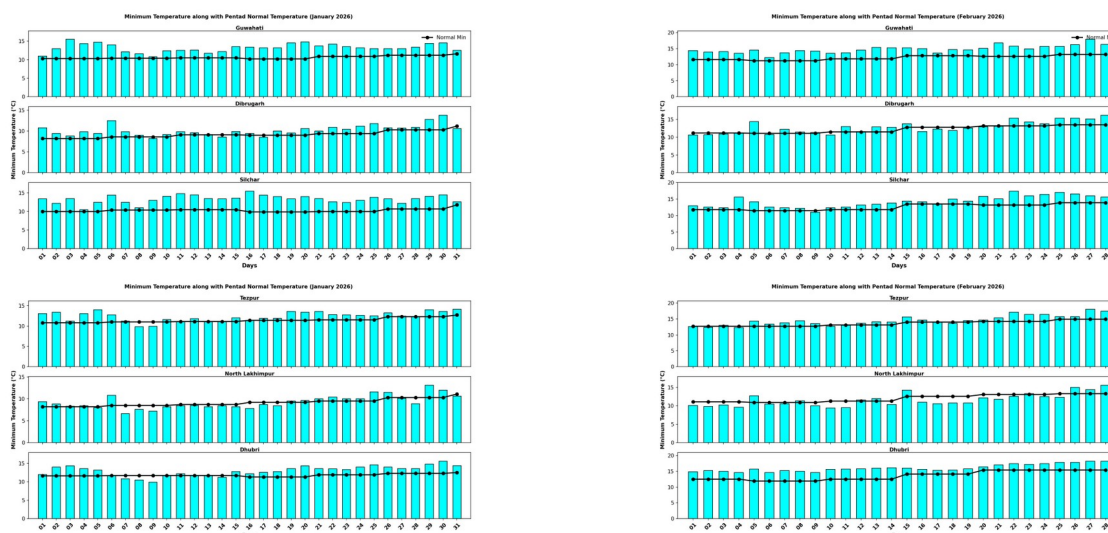


Figure 4 — Observed minimum temperatures vs. pentad normals for January & February 2026 across Assam stations. Blue bars = daily minimum temperature; black line = normal values.

**Season Extremes**  
**Highest maximum temperature:** 33.6 °C at Silchar on 19 February 2026  
**Lowest minimum temperature:** 6.6 °C at North Lakhimpur on 7 January 2026

In January, the highest anomalous maximum temperature was observed at North Lakhimpur, while the lowest was at Dhubri (Table 1a). The highest anomalous minimum temperature was at Silchar and the lowest at North Lakhimpur (Table 2a).

In February, North Lakhimpur recorded the highest anomalous maximum temperature and Dhubri the lowest (Table 1b). Guwahati had the highest anomalous minimum temperature and North Lakhimpur the lowest (Table 2b).

### 3. Fog Event Summary of the Season

Fog events were reported across multiple locations in Assam throughout the season. Table 3 provides a comprehensive daily record of fog observations, categorised by visibility range.

Table 3: Fog Observations in Assam — Winter 2026

Date	Shallow-Moderate Fog (200–999 m)	Dense Fog (50–199 m)	Very Dense Fog (<50 m)
01.01.2026	—	Tezpur, Dhubri, Jorhat, Lakhimpur	—
02.01.2026	Silchar, Lakhimpur, Jorhat	Guwahati, Dhubri, Dibrugarh	Tezpur
03.01.2026	Guwahati, Dhubri, Jorhat	—	—
04.01.2026	Jorhat, Silchar	Dhubri	—

Date	Shallow-Moderate Fog (200-999 m)	Dense Fog (50-199 m)	Very Dense Fog (<50 m)
05.01.2026	Dibrugarh, Silchar	Dhubri, Jorhat	—
06.01.2026	Tezpur, Jorhat, Lakhimpur	Dibrugarh, Dhubri	—
07.01.2026	Guwahati	Dibrugarh, Dhubri, Jorhat, Lakhimpur	Tezpur
08.01.2026	—	Dibrugarh, Dhubri, Jorhat	Tezpur
09.01.2026	Jorhat	Dibrugarh, Dhubri	—
10.01.2026	Jorhat	Jorhat	—
11.01.2026	Jorhat	Dhubri	—
12.01.2026	Dhubri, Jorhat	—	—
13.01.2026	Dhubri, Jorhat	—	—
14.01.2026	Dhubri, Jorhat	—	—
15.01.2026	Dhubri, Jorhat	—	—
16.01.2026	Jorhat	—	—
17.01.2026	Jorhat	—	—
18.01.2026	Jorhat	—	—
19.01.2026	Jorhat	—	—
21.01.2026	Jorhat	—	—
22.01.2026	Jorhat	—	—
23.01.2026	Jorhat, Dibrugarh	—	—
24.01.2026	Jorhat	—	—
25.01.2026	Jorhat, Dhubri	—	—
26.01.2026	Jorhat	—	—
27.01.2026	Jorhat	—	—
28.01.2026	Jorhat	—	—
30.01.2026	Dhubri	—	—
31.01.2026	Dhubri, Dibrugarh	Jorhat	—
01.02.2026	Dhubri, Jorhat	—	—
02.02.2026	Dhubri	—	—
03.02.2026	Dhubri	—	—
04.02.2026	Dhubri	—	—
05.02.2026	Dhubri	—	—
06.02.2026	Dhubri, Jorhat	—	—
07.02.2026	Dhubri, Jorhat	—	—
08.02.2026	Jorhat	—	—
09.02.2026	Jorhat	—	—
10.02.2026	Jorhat	—	—
12.02.2026	Jorhat	—	—
13.02.2026	Dhubri	—	—
14.02.2026	Jorhat	—	—

## 4. Thunderstorm & Lightning Summary of the Season

Thunderstorm events were reported in multiple locations across Assam as shown in Table 4.

**Table 4: Thunderstorm Events in Assam — Winter 2026**

Date	Station(s)
22.02.2026	Jorhat
23.02.2026	Jorhat
26.02.2026	Jorhat, North Lakhimpur
28.02.2026	Tezpur

## Legends

Classification of Fog	
Fog type	Visibility Range (in meters)
Shallow	500-1000
Moderate	200-500
Dense	50-200
Very Dense	Less than 50 meters

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