



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 02nd February 2026

Time of Issue: 1320 hours

Subject: (i) Under the influence of Western Disturbance light to moderate scattered rainfall/snowfall likely over Western Himalayan region and light to moderate isolated/scattered rainfall over adjoining plains of northwest India and Central India on 02nd & 3rd February, 2026.

(ii) Dense to very dense fog conditions likely during morning/night hours at isolated/ few places over Punjab, Haryana and north Madhya Pradesh till 03rd; Uttar Pradesh till 05th February, 2026.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 02nd February, 2026:

- ❖ **Dense to very Dense fog (visibility <50 m)** conditions prevailed at a few places over Punjab, Haryana and Uttar Pradesh; in isolated pockets of East Rajasthan and **dense fog (visibility 50-199 m)** conditions in isolated pockets over Himachal Pradesh, Bihar and Odisha
- ❖ **Visibility Reported (In Meters ≤200 m):** Himachal Pradesh: Bilaspur(100); **Punjab:** Patiala (40), Halwara (50), Faridkot (100) Bhatinda (50); Haryana: Hisar (40), Karnal (70), Ambala (100), Narnaul (20), Bhiwani (10), Sirsa (<50); West Uttar Pradesh: Ams Aligarh, Sarsawa(IAF) Agra(IAF) & Hindon(IAF)-00 Each, Agra Taj-20, Aligarh-30, Moradabad-40, Muzaffarnagar & Meerut-50 Each, Bareilly-60,; East Uttar Pradesh: Gorakhpur(IAF)(0), Bahraich(40), AMS Ayodhya, AMS Kushinagar, AMS Fursatganj & Azamgarh (50) Each, AMS Chitrakoot(100); East Rajasthan: Sikar(<50),Bhilwara(>50); **Bihar:** Chapra (50); **Odisha:** Chhatrapur, Angul, Khordha (100)
- ❖ **Light to moderate rainfall/snowfall** occurred at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh
- ❖ **Light to moderate rainfall** occurred at isolated places over Uttarakhand, Punjab, Uttar Pradesh, Haryana, and East Rajasthan.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed **30-50 kmph** over Jammu & Kashmir.
- ❖ **Hailstorm** reported over Uttarakhand, West Uttar Pradesh and West Madhya Pradesh.

Temperature Conditions during past 24 hours till 0830 hours IST of today:

- ❖ **Minimum temperatures** were **0-5°C** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh and Uttarakhand **5-10°C** over plains of northwest India, Madhya Pradesh, north Chhattisgarh, Jharkhand, Sikkim, Assam, Meghalaya, Mizoram and Manipur. It was **10°C** and above for remaining parts of the country, except higher reaches of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad where it was less than **0°C**.
- ❖ **Minimum Temperature Departures** were above normal by (3°C to 5°C) over Haryana, Chandigarh, Uttar Pradesh, Rajasthan, Madhya Pradesh and Saurashtra & Kutch by (1°C to 3°C) over Western Himalayan Region, Bihar, Odisha, Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Assam & Meghalaya and Gangetic West Bengal, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands and near normal over rest parts of the country. (**refer to ANNEXURE IV**)
- ❖ The **lowest minimum temperature** of 5.8°C was observed at Bhatinda (**Punjab**) over the plains of India.

Weather Systems, Forecast and Warnings (refer to ANNEXURE I & II):

- ❖ The **Western Disturbance** as a **cyclonic circulation** lies over Punjab & adjoining Haryana in lower tropospheric level.
- ❖ A fresh **western disturbance** as a trough in middle tropospheric westerlies runs roughly between Long. 67°E / Lat. 30°N and Long. 62°E/Lat. 20°N
- ❖ **Subtropical westerly Jet Stream** with core winds of the order of 130 knots at 12.6 km above mean sea level continues to prevail over Northeast India.
- ❖ Another fresh **western disturbance** is likely to affect Western Himalayan region from the night of 05th February 2026.

Under the influence of above system, the following weather is likely:

- ❖ **Isolated to Scattered** rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 02nd and Himachal Pradesh and Uttarakhand on 02nd & 03rd February.
- ❖ **Isolated to Scattered** light rainfall with **thunderstorm, lightning** with **gusty winds speed reaching (30-40 gusting to 50 kmph)** likely over Uttar Pradesh, East Rajasthan and north Madhya Pradesh on 02nd & 03rd and over Gujarat Region on 02nd February 2026.
- ❖ **Isolated Hailstorm activity also likely** over West Uttar Pradesh, East Rajasthan and West Madhya Pradesh on 02nd February, 2026.

Forecast of minimum temperatures:

- ❖ No significant change in minimum temperatures likely over northwest, central & east India during next 7 days.
- ❖ Gradual rise in minimum temperature by 2-4°C over Maharashtra during next 3 days and no significant change thereafter.

Dense Fog, Cold day Warnings:

- ❖ **Dense to very dense fog conditions** likely during morning/night hours at isolated/ few places over Punjab till 3rd; West Uttar Pradesh till 05th; East Uttar Pradesh on 03rd & 04th and **dense fog** conditions over Punjab, Haryana Chandigarh, Rajasthan, Bihar, Odisha and north Madhya Pradesh till 04th; Sub-Himalayan West Bengal & Sikkim till 03rd February 2026.

Weather conditions and forecast over Delhi/NCR during 02nd-05th February, 2026 (ANNEXURE III) For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php>

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 02nd February to 07th February, 2026:

- ❖ **Bay of Bengal:** Comorin area during 02nd to 07th February; over parts of Gulf of Mannar adjoining to Comorin area on 03rd & 04th February; over Gulf of Mannar on 02nd, 05th & 06th February; Along and off south Tamil Nadu and west Sri Lanka coasts on 02nd, 05th & 06th February.
- ❖ **Arabian Sea:** over parts of Maldives area adjoining to Comorin area on 05th & 06th February.

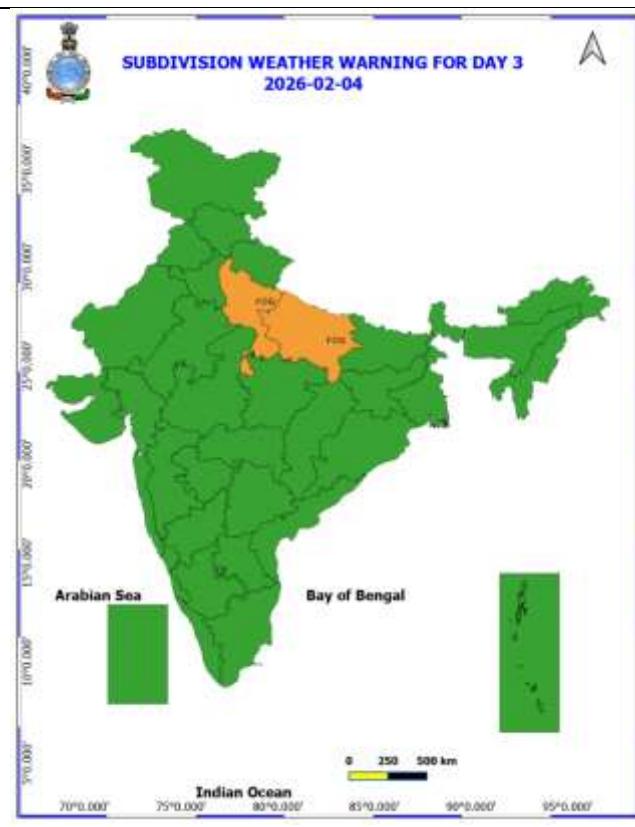
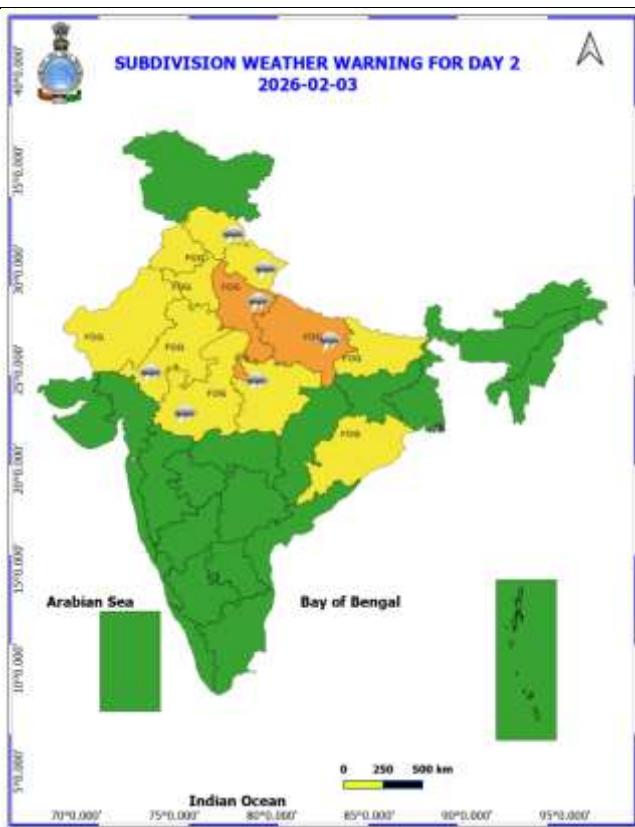
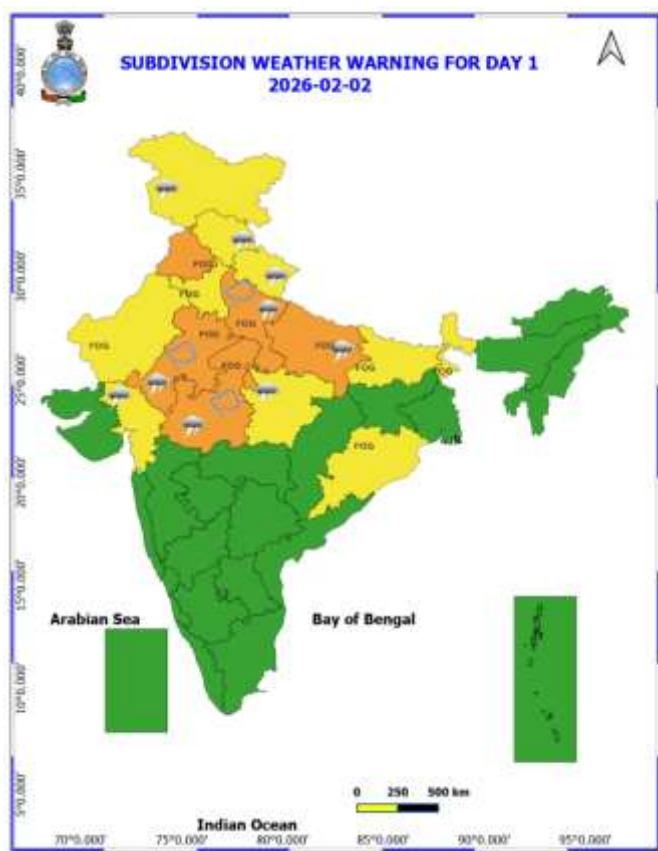
Table-1

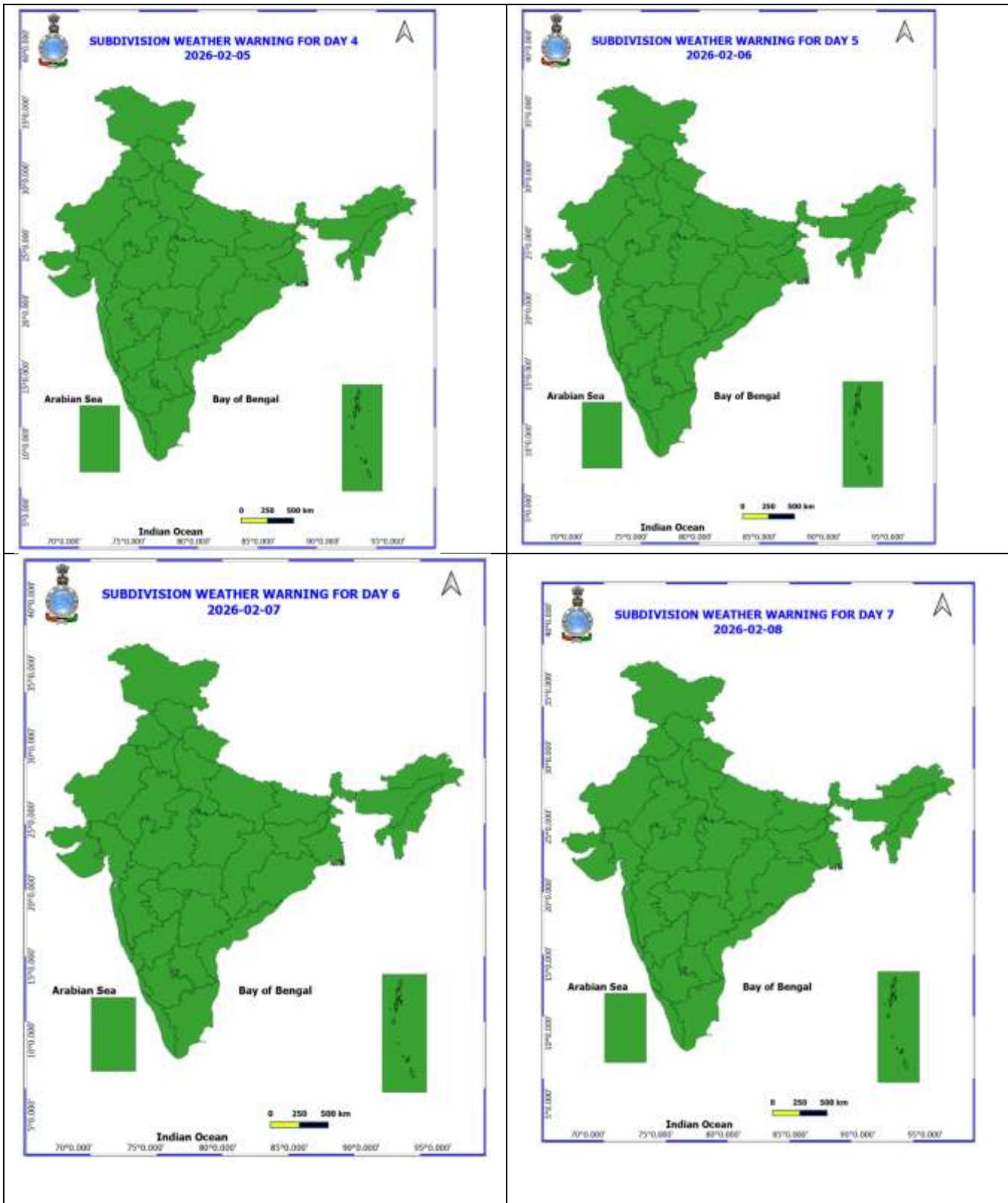
7 Days Rainfall Forecast

S.No.	Subdivision	2- Feb	3- Feb	4- Feb	5- Feb	6- Feb	7- Feb	8- Feb
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
2	ARUNACHAL PRADESH	DRY	DRY	ISOL	ISOL	DRY	ISOL	ISOL
3	ASSAM & MEHGHALAYA	DRY						
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	DRY						
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	SCT	ISOL	DRY	ISOL	DRY	DRY
13	HARYANA, CHANDIGARH & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	SCT	SCT	DRY	DRY	ISOL	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	SCT	FWS	DRY	ISOL	SCT	ISOL	DRY
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY						
27	CHHATTISGARH	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	DRY						
29	TELANGANA	DRY						
30	RAYALASEEMA	DRY						
31	TAMILNADU & PUDUCHERRY	ISOL	DRY	ISOL	ISOL	DRY	DRY	DRY
32	COSTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	DRY						
35	KERALA AND MAHE	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
36	LAKSHADWEEP	SCT	SCT	DRY	DRY	DRY	DRY	DRY

- As the lead period increases forecast accuracy decrease.

ANNEXURE II





- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Detailed district wise Multi Hazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 02nd to 05th February 2026**Past Weather:**

There has been fall in the minimum temperature upto 1°C - 2°C and appreciable rise in the maximum temperature upto 2°C - 4°C during the past 24 hours over Delhi. The maximum temperatures over Delhi were around 23°C to 25°C and the minimum temperatures are around 10°C - 13°C respectively. The minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places, above normal (1.6°C to 3.0°C) at a few places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi. The maximum temperatures were above normal (1.6°C to 3.0°C) at a few places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi. Safdarjung Airport reported lowest visibility 100m from 0330 IST to 0830 IST, which thereafter improved to 200m from 0900 IST of today, 02-02-2026. Palam Airport reported lowest visibility 100m from 0200 IST to 0930 IST, which thereafter improved to 300m from 1000 IST of today, 02-02-2026. Partly cloudy sky conditions. The winds speed reaching upto 16 kmph from the east direction prevailed over past 24 hours. Generally cloudy sky. Dense fog at many places with wind speed reaching upto 10 kmph from the west direction to be prevailed over the region in the forenoon today.

Weather Forecast:

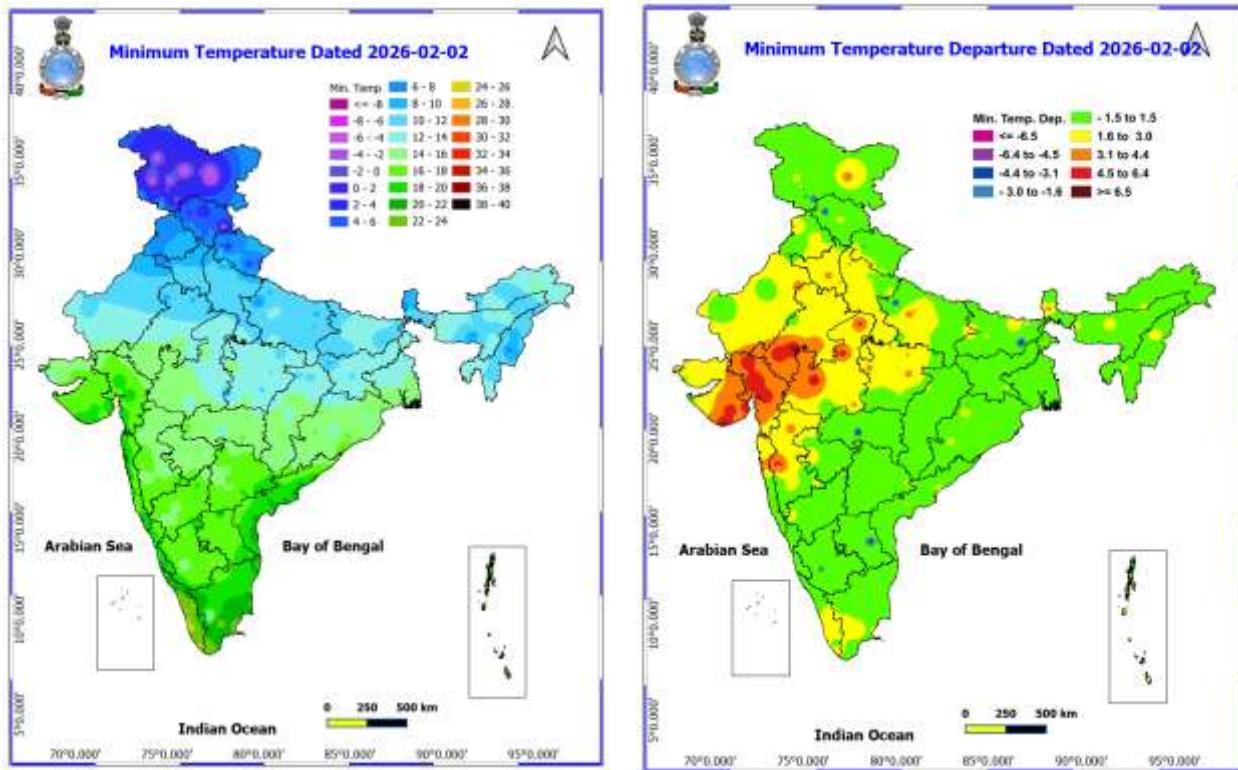
02.02.2026: Generally cloudy sky. Mist/Haze during night. The maximum temperatures are likely to be in the range of 16°C to 18°C. The maximum temperatures will be markedly below normal (-5.1°C or less) over Delhi. The predominant surface wind is likely to be from the northwest direction reaching up to 12 kmph during the afternoon hours. The wind speed will decrease becoming less than 08 kmph from the north direction during evening and night.

03.02.2026: Partly cloudy sky. Shallow to moderate fog at many places with dense fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 20°C to 22°C and 07°C to 09°C respectively. The minimum temperature will near normal and the maximum temperatures will below normal (-1.6°C to -3.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed associated with calm wind reaching up to 05 kmph during the morning hours. The wind speed will increase becoming upto 10 kmph from northwest direction during the afternoon. The wind speed will decrease becoming upto 06 kmph from the north direction during evening and night.

04.02.2026: Partly cloudy sky. Shallow fog at many places with moderate fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 20°C to 22°C and 08°C to 10°C respectively. The minimum temperature will near normal and the maximum temperatures will below normal (-1.6°C to -3.0°C) over Delhi. The predominant surface wind is likely to be from the north direction with wind speed associated with calm wind reaching up to 05 kmph during the morning hours. The wind speed will increase becoming upto 10 kmph from northwest direction during the afternoon. The wind speed will decrease becoming upto 08 kmph from the northwest direction during evening and night.

05.02.2026: Partly cloudy sky. Shallow fog at many places with moderate fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 20°C to 22°C and 08°C to 10°C respectively. The minimum temperature will near normal and the maximum temperatures will below normal (-1.6°C to -3.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed upto 10 kmph during the morning hours. The wind speed will increase becoming upto 12 kmph from northwest direction in the afternoon. The wind speed will decrease becoming upto 08 kmph from the northwest direction during evening and night.

ANNEXURE IV



Reported minimum temperature over the plains ($\leq 8^{\circ}\text{C}$) at 0830 hrs IST of the 02nd February 2026.

STATION	STATE	MINIMUM TEMPERATURE (°C)
BHATINDA	PUNJAB	5.8
AMRITSAR	PUNJAB	7.4
SABAUR	BIHAR	7.6
BULANDSHAHAR	UTTAR PRADESH	8.0
LUDHIANA	PUNJAB	8.4
SIKAR	RAJASTHAN	9.0
DALTONGANJ	JHARKHAND	9.1
SRIGANGANAGAR	RAJASTHAN	9.3
PATIALA	PUNJAB	9.4
GORAKHPUR	UTTAR PRADESH	9.4
ALWAR	RAJASTHAN	9.5
NOWGONG	MADHYA PRADESH	9.6
KARNAL	HARYANA	9.7
CHANDIGARH	HARYANA	9.8
BHAGALPUR	BIHAR	9.8
AZAMGARH	UTTAR PRADESH	9.8
AMBIKAPUR	CHHATTISGARH	9.9

Impact expected and action suggested due to isolated thunderstorm with lightning/ gusty winds and hailstorm over

- ❖ Isolated to Scattered rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 02nd and Himachal Pradesh and Uttarakhand on 02nd & 03rd February.

- ❖ **Isolated to Scattered** light rainfall with **thunderstorm, lightning** with **gusty winds speed reaching (30-40 gusting to 50 kmph)** likely over Uttar Pradesh, East Rajasthan and north Madhya Pradesh on 02nd & 03rd and over Gujarat Region on 02nd February 2026.
- ❖ **Isolated Hailstorm activity also likely** over West Uttar Pradesh, East Rajasthan and West Madhya Pradesh on 02nd February, 2026.

Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

❖ **Impact expected due to dense fog in the morning/night hours:**

Dense to very dense fog conditions likely during morning/night hours at isolated/ few places over Punjab till 3rd; West Uttar Pradesh till 05th; East Uttar Pradesh on 03rd & 04th and **dense fog** conditions over Punjab, Haryana Chandigarh, Rajasthan, Bihar, Odisha and north Madhya Pradesh till 04th; Sub-Himalayan West Bengal & Sikkim till 03rd February 2026.

❖ **Transport and Aviation:**

- May affect some airports, highways and railway routes in the areas of met- sub-division.
- Difficult driving conditions with slower journey times.
- Unless taken precautionary measures, it may lead to some road traffic collisions.

❖ **Power Sector:**

- Chances of Tripping of Power lines in the very dense fog routes.

❖ **Human Health:**

- Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
- Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
- Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Agromet advisories for likely impact of Hailstorm

- Use hail nets to protect orchards and vegetable plants in West Uttar Pradesh, East Rajasthan and West Madhya Pradesh.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Livestock

- Keep the animals inside the shed during Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.

Legends & abbreviations:

- ❖ **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District: **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- ❖ **Region wise classification of meteorological Sub-Divisions:**
 - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
 - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह

2. अरुणाचल प्रदेश

3. असम और मेघालय

4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल

7. ओडिशा

8. झारखण्ड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखण्ड

13. हरियाणा, चंडीगढ़ और दिल्ली

14. पंजाब

15. हिमाचल प्रदेश

16. जम्मू और कश्मीर और लद्दाख

17. पश्चिम राजस्थान

18. पूर्वी राजस्थान

19. पश्चिम मध्य प्रदेश

20. पूर्वी मध्य प्रदेश

21. गुजरात

22. सौराष्ट्र

23. कोकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुदुचेरी और कराईकल

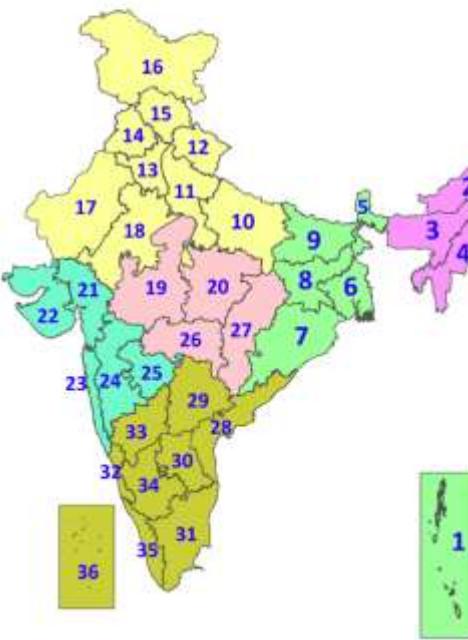
32. तटीय कर्नाटक

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

35. केरल और माहे

36. लक्षद्वीप



1. Andaman & Nicobar Islands

2. Arunachal Pradesh

3. Assam & Meghalaya

4. Nagaland, Manipur, Mizoram & Tripura

5. Sub-Himalayan West Bengal & Sikkim

6. Gangetic West Bengal

7. Odisha

8. Jharkhand

9. Bihar

10. East Uttar Pradesh

11. West Uttar Pradesh

12. Uttarakhand

13. Haryana, Chandigarh & Delhi

14. Punjab

15. Himachal Pradesh

16. Jammu & Kashmir and Ladakh

17. West Rajasthan

18. East Rajasthan

19. West Madhya Pradesh

20. East Madhya Pradesh

21. Gujarat

22. Saurashtra

23. Konkan & Goa

24. Madhya Maharashtra

25. Marathwada

26. Vidarbha

27. Chhattisgarh

28. Coastal Andhra Pradesh & Yanam

29. Telangana

30. Rayalaseema

31. Tamilnadu, Puducherry & Karaikal

32. Coastal Karnataka

33. North Interior Karnataka

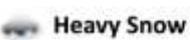
34. South Interior Karnataka

35. Kerala & Mahe

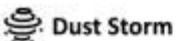
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

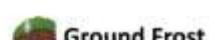
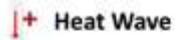
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)		
51-75	Fairly Widespread (FWS/Many Places)		
26-50	Scattered (SCT/A Few Places)		
1-25	Isolated (ISOL)		



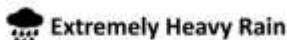
COLOUR CODED WARNING



No Warning (No Action)



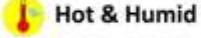
Watch (Be Aware)



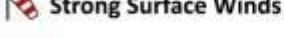
Alert (Be Prepared To Take Action)



Warning (Take Action)



Probabilistic Forecast



Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

(Service to the Nation since 1875)



DEFINITION/CRITERIA

Rain/ Snow *

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm *
Extremely Heavy: > 204.4 mm/cm *

When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .

Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

Heat Wave

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $>4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$

Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

Severe Warm Night: When minimum temperature departure $>6.4^{\circ}\text{C}$

Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$

Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions

Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{ km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres

Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)

Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.

Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)

Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed >87 kmph

Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre

Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 - 119 knots)

Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

(Service to the Nation since 1875)