



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 03rd January 2026
Time of Issue: 1300 hours IST

Subject: (i) Dense to Very dense fog conditions very likely to continue during night/morning hours over North India during next 7 days.

(ii) Cold day conditions very likely at isolated pockets over Uttarakhand on 3rd & 4th; over Uttar Pradesh, west Madhya Pradesh and Rajasthan on 3rd; over Bihar during 3rd – 5th January, 2026.

(iii) Cold wave conditions very likely in isolated pockets of Punjab, Haryana till 7th; over west Rajasthan during 5th -8th; over east Rajasthan during 4th -8th January 2026.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 03rd January, 2026:

- ❖ **Dense to very Dense fog (visibility <50 m) conditions** prevailed in many parts over Jammu, Odisha, Uttar Pradesh, west Madhya Pradesh and Punjab; **dense fog (visibility 50-199 m):** prevailed in isolated pockets of Bihar, Himachal Pradesh, East Madhya Pradesh, East Rajasthan, Uttarakhand and Manipur.
- ❖ **Visibility in meter reported (≤ 200 m):** **Jammu:** Udhampur (0m); **Punjab:** Amritsar (0m), Faridkot (30 m); Halwara, Bathinda; **Manipur:** Imphal (100m); **Odisha:** Paradeep (20m), Bhubaneswar; **Bihar:** Forbesganj(50m), Patna(100m); **Jammu:** Udhampur (0m); **Himachal Pradesh:** Kangra(50m), Sundernagar (100m); **Uttarakhand:** Khatima (75m); **East Rajasthan:** Kota (50m); **East Uttar Pradesh:** Kushinagar AP, Kanpur(IAF), Fursatganj (0m) Each, Prayagraj AP (50m), Kanpur City, Fatehgarh(80m) Each, Azamgarh, Chitrakoot AP(100 m) Each, Hardoi, Bahraich(110m) Each, Lucknow(150m); **West Uttar Pradesh:** Agra IAF(0m), Agra Taj(20m), Aligarh AP(50m), Aligarh, Jhansi(100m) Each; **West Madhya Pradesh:** Gwalior (0m), Indore (100m); **East Madhya Pradesh:** Jabalpur (50m)
- ❖ **Cold day conditions** prevailed in isolated parts of east Uttar Pradesh.

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

- ❖ An **upper air cyclonic circulation** lies over east Bangladesh and neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over northeast Assam & neighbourhood in lower tropospheric level.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order of 150 knots at 12.6 km above mean sea level continues to prevails over northwest India.
- ❖ An **upper air cyclonic circulation** lies over southeast Arabian sea and adjoining South Kerala coast in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over southeast Bay of Bengal and adjoining southwest Bay of Bengal and equatorial Indian ocean extending in lower and middle tropospheric level.

Under the influence of these systems, the following weather is likely:

- ❖ **Hailstorm activity** likely at isolated places over Meghalaya on 3rd January 2026.
- ❖ **Isolated rainfall/ snowfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 5th & 6th and over Himachal Pradesh on 6th January 2026.

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

- ❖ **Minimum temperatures** were **below 0°C** at a many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **0-5°C** over Himachal Pradesh & Uttarakhand; **5°-10°C** at a few places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, north Rajasthan, Gangetic West Bengal at isolated places over Bihar, Jharkhand,

Chhattisgarh; **10°-15°C** at many places over Odisha, at a few places over Madhya Pradesh, Saurashtra & Kutch, Assam; at isolated places over Maharashtra, Gujarat State.

- ❖ Minimum Temperatures departures were below normal (-3.0°C to -1.6°C) at isolated places over West Uttar Pradesh, Rajasthan, Saurashtra & Kutch, Gangetic West Bengal, Assam, Mizoram and Odisha. ([refer to ANNEXURE IV](#))
- ❖ The **lowest minimum temperature** of 2.8°C was observed at **Fatehpur (East Rajasthan)** over the plains of India.

Forecast of minimum temperatures:

- ❖ Gradual fall in minimum temperatures by 2-3°C likely over Northwest India during next 2 days and no significant change thereafter for subsequent 5 days.
- ❖ Gradual fall in minimum temperatures by 2-4°C likely over Central India during next 4 days and no significant change thereafter for next 3 days.
- ❖ No significant change in minimum temperature likely over East India during next 24 hours, gradual fall by 2-3°C likely during subsequent 3 days and no significant change thereafter.
- ❖ Gradual rise in minimum temperature by 2-3°C likely over Gujarat state during next 3 days and no significant change thereafter.
- ❖ No significant change in minimum temperature likely over Maharashtra and north east India.

Dense Fog, Cold day & Cold wave Warnings:

- ❖ **Dense to Very dense** fog conditions very likely to continue during night/morning hours at many/some places over Punjab, Haryana, Chandigarh till 07th; over West Uttar Pradesh till 05th; over East Uttar Pradesh till 08th; over East Rajasthan till 4th; over Odisha till 6th January, 2026.
- ❖ **Dense fog** conditions also likely during night/morning hours in isolated/ some pockets Jammu division, Assam 7 Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub Himalayan west Bengal till 6th; over Himachal Pradesh and Uttarakhand till 8th; over Punjab, Haryana, Chandigarh; west Uttar Pradesh during 6th -10th; over east Uttar Pradesh on 9th & 10th; over Rajasthan, Gangetic west Bengal, Jharkhand and Chhattisgarh till 5th; over Madhya Pradesh till 7th; over Bihar till 9th; over Odisha on 7th & 8th January 2026.
- ❖ **Cold day conditions** very likely at isolated pockets over Uttarakhand on 3rd & 4th; over Uttar Pradesh, west Madhya Pradesh and Rajasthan on 3rd; over Bihar during 3rd – 5th January, 2026.
- ❖ **Cold wave** conditions very likely in isolated pockets of Punjab, Haryana, Chandigarh & Delhi till 7th; over west Rajasthan during 5th -8th; over east Rajasthan during 4th -8th January 2026.

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 03rd January to 08th January, 2026:

➤ **Bay of Bengal:**

Over Gulf of Mannar & adjoining, some parts of Comorin area during on 03rd to 08th January; along and off Sri Lanka coast during on 03rd to 08th January; over most parts of southwest Bay of Bengal and adjoining southeast Bay of Bengal during on 03rd to 07th January; over many parts of southwest Bay of Bengal and adjoining southeast Bay of Bengal during on 07th January.

➤ **Arabian Sea:**

Along and off Somalia coast and adjoining sea areas during 03rd to 08th January.

Weather conditions and forecast over Delhi/NCR during 03rd -06th January, 2026 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

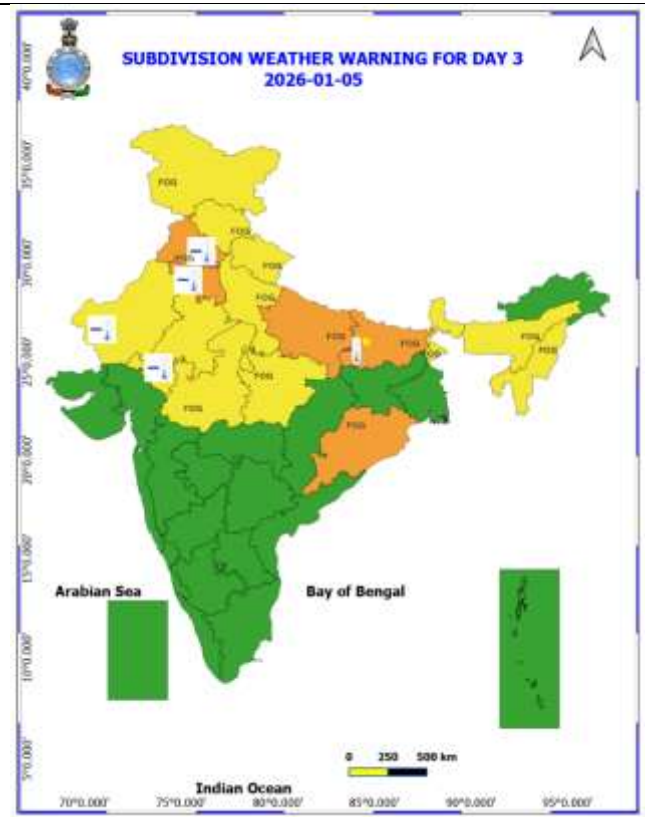
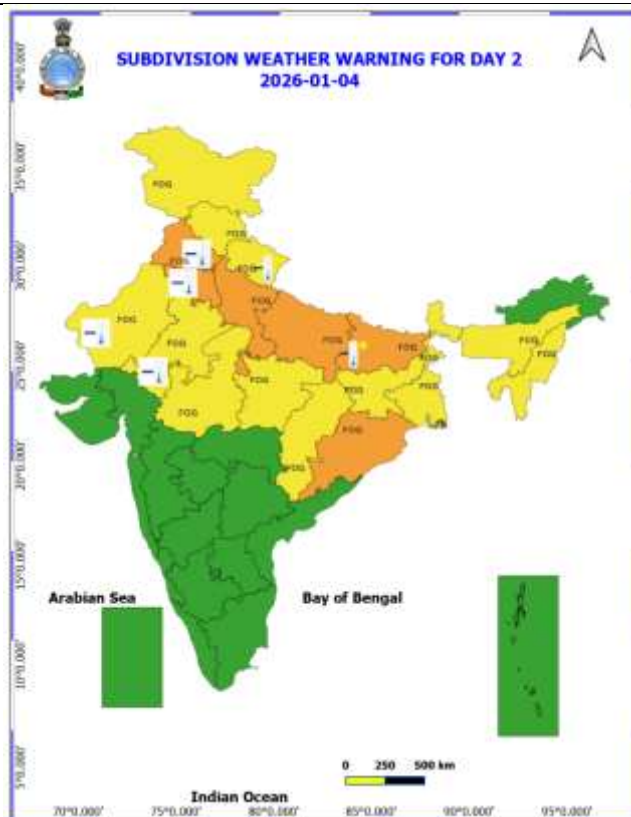
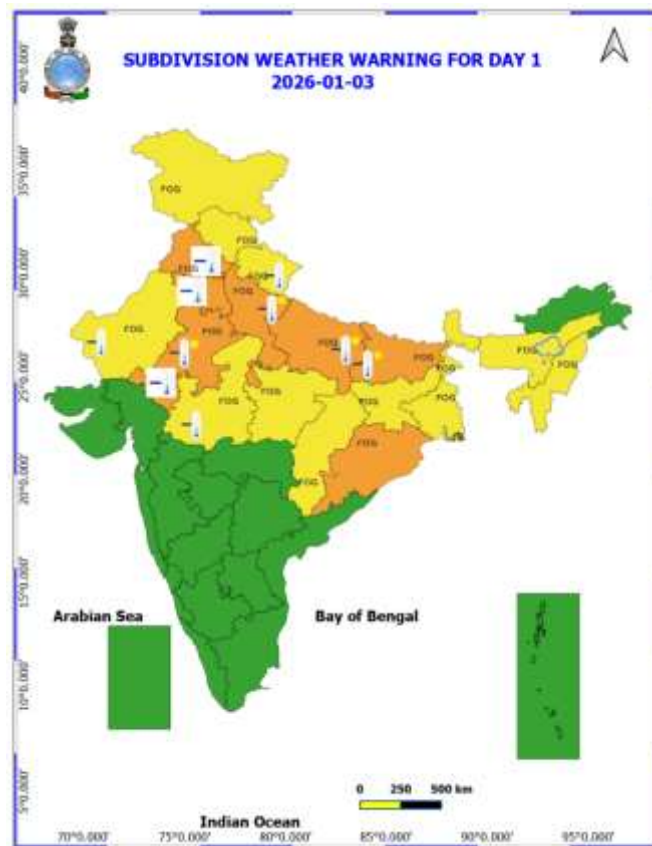
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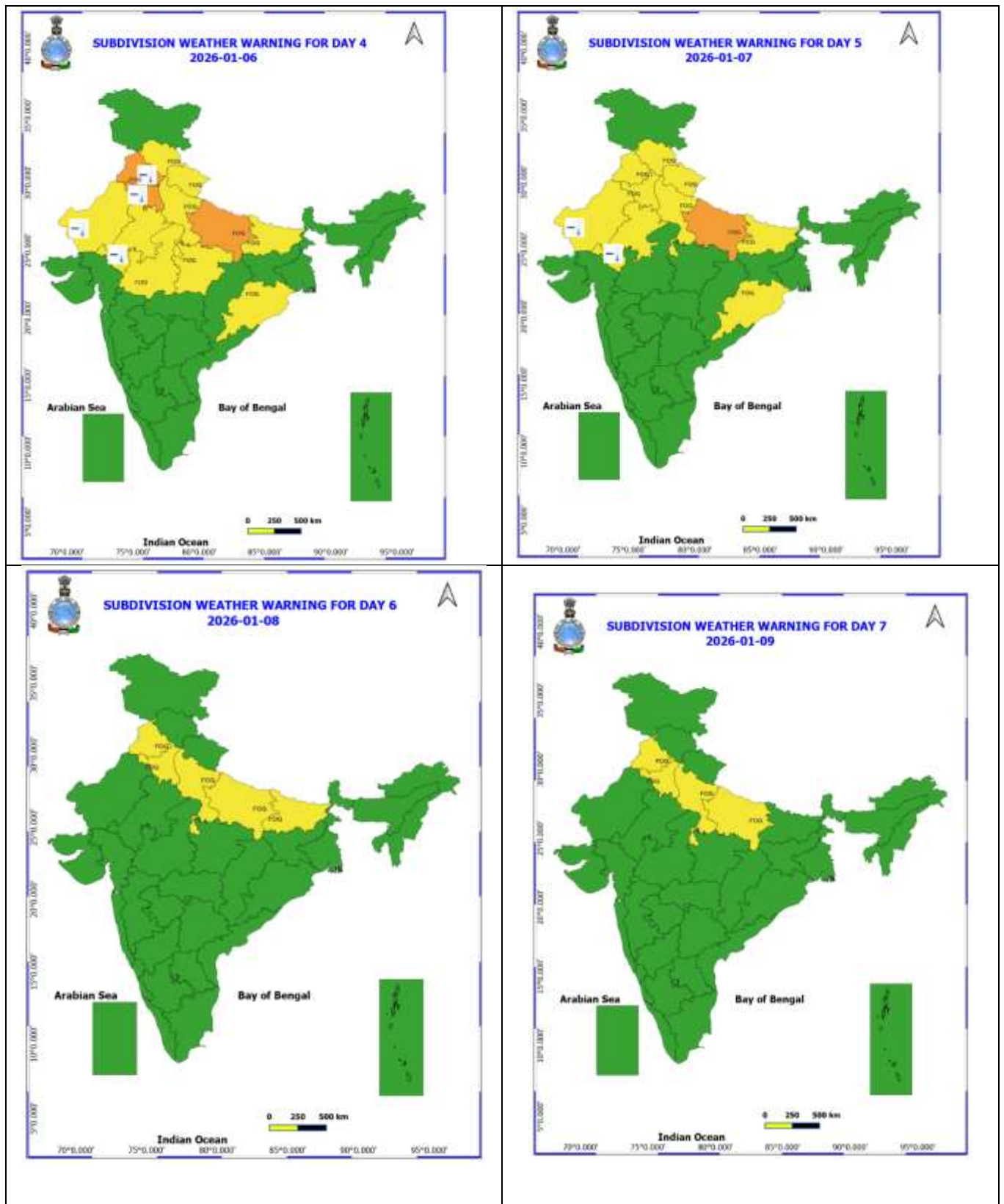
For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

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

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

- As the lead period increases forecast accuracy decrease.





- Action may be taken based on ORANGE AND REDCOLOUR 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 districtwise Multi Hazard weather warning for next five days available at <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 03rd to 06th January 2026**Past Weather:**

There has been fall in minimum temperatures upto 1°C and rise in maximum temperatures upto 2°C over the past 24 hours in Delhi. The maximum and minimum temperatures over Delhi were around 16°C to 17°C and 7°C to 9°C respectively. The minimum temperatures were above normal (1.6°C to 3.0°C) at isolated places, and normal (-1.5°C to 1.5°C) over the remaining places of Delhi. The maximum temperatures were below normal (-1.5°C to -3.0°C) over many places in Delhi. Safdarjung reported the lowest visibility 800m from 0830 IST to 0900 IST, which thereafter improved to 1200m at 0930 IST of today, 03.01.2026. Partly cloudy sky with Shallow fog, predominant surface wind from the westerly direction with a wind speed up to 16 kmph prevailed during the past 24 hours. Partly cloudy sky with wind speed reached up to 10 kmph from the west direction over the region in the forenoon today.

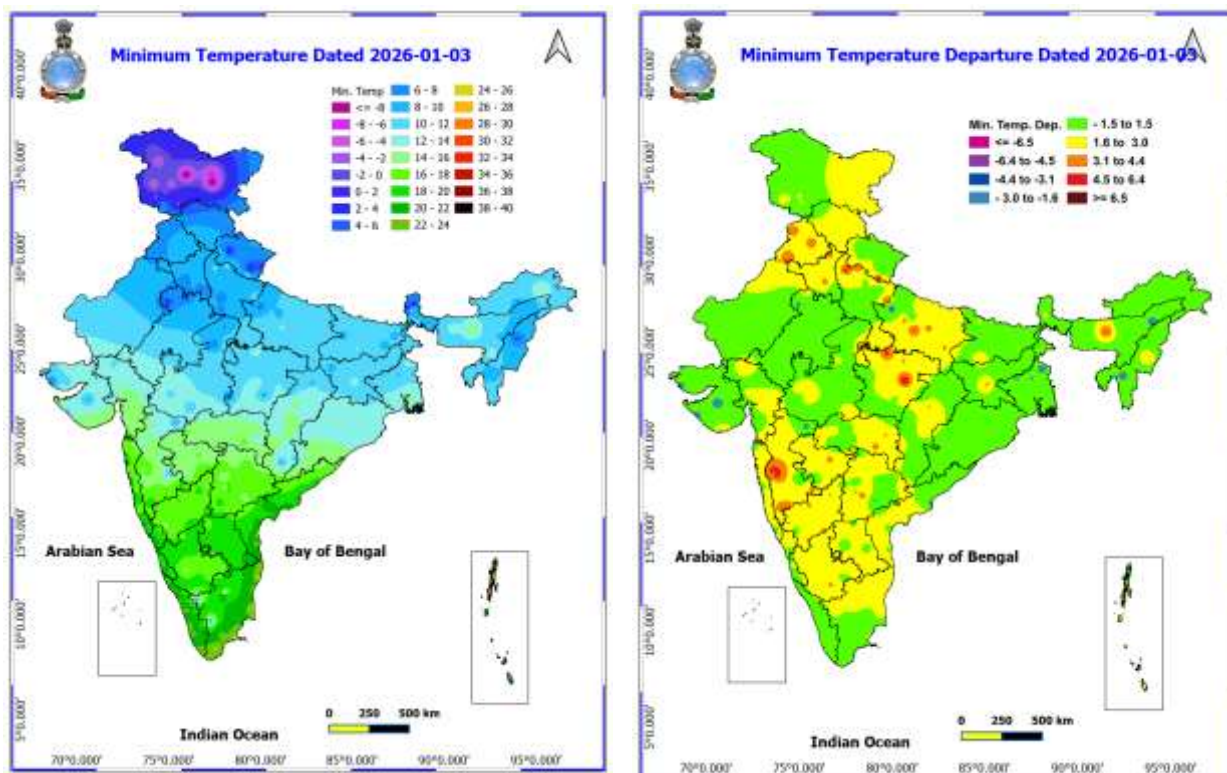
Weather Forecast:

03.01.2026: Partly cloudy sky becoming mainly clear sky towards evening/night. Shallow fog during the night. The maximum temperatures are likely to be in the range of 16°C to 18°C. Maximum temperatures will be below normal (0.3°C to 2.3°C) over Delhi. The predominant surface wind is likely to be from the west direction with wind speeds less than 15 kmph during the afternoon hours. The wind speed will decrease, becoming less than 05 kmph from the west direction during the evening and night.

04.01.2026: Mainly clear sky. Moderate fog at many places with dense fog at isolated places during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 17°C to 19°C and 6°C to 8°C, respectively. The minimum temperature will be near normal, and the maximum temperatures will be above normal (0.3°C to 2.3°C) over Delhi. The predominant surface wind is likely to be from the west direction with wind speed less than 05 kmph during the morning hours. The wind speed will increase, becoming less than 15 kmph from the northwest direction in the afternoon hours. The wind speed will decrease, becoming less than 05 kmph from the northwest direction during the evening and night.

05.01.2025: Mainly clear sky. Shallow fog at many places with moderate fog at a few places during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 18°C to 20°C and 7°C to 9°C, respectively. The minimum temperatures will be above normal (0.1°C to 2.1°C), and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the west direction with wind speeds less than 10 kmph during the morning hours. The wind speed will increase, becoming 20 kmph from the northwest direction in the afternoon. The wind speed will decrease up to 10 kmph from the northwest direction during the evening and night.

06.01.2026: Mainly clear sky. Shallow fog at many places with moderate fog at a few places during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 18°C to 20°C and 8°C to 10°C, respectively. The minimum temperatures will be above normal (0.1°C to 2.1°C), and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the west direction, with wind speeds gradually increasing to reach up to 10 kmph during the morning hours. The wind speed will increase to 15 kmph from the northwest direction in the afternoon, and then decrease to 10 kmph from the northwest direction during the evening and night.



Impact expected due to dense/very dense fog in the night/morning hours: very likely to continue during night/morning hours at many/some places over Punjab, Haryana, Chandigarh till 07th; over West Uttar Pradesh till 05th; over East Uttar Pradesh till 08th; over East Rajasthan till 4th; over Odisha till 6th January, 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.

Action suggested:

❖ **Transport and Aviation:**

- Be careful while driving or outing through any transport.
- Use fog lights during driving.
- Be in touch with airlines, railways and state transport for schedule of your journey.

❖ **Power Sector:**

- To keep ready Maintenance Team.
- Human Health: To avoid outing until unless emergency and to cover the face.

❖ **Impact expected due to Cold Wave conditions:** very likely in isolated pockets of Punjab, Haryana, Chandigarh & Delhi till 7th; over west Rajasthan during 5th -8th; over east Rajasthan during 4th -8th January 2026.

- ❖ An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- ❖ Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.

- ❖ Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- ❖ Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

Action suggested:

- ❖ Wear several layers of loose fitting, light weight; warm woollen clothing.
- ❖ Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm woollen clothing rather than one layer of heavy cloth.
- ❖ Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- ❖ Avoid or limit outdoor activities.
- ❖ Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- ❖ Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- ❖ If the affected skin area turns black, immediately consult a doctor.
- ❖ Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- ❖ Take safety measures while using electrical and gas heating devices.
- ❖ Extreme care needed for vulnerable people.
- ❖ Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- ❖ Protect livestock from cold weather.

Impact expected due to Cold Day conditions: very likely at isolated pockets over Uttarakhand on 3rd & 4th; over Uttar Pradesh, west Madhya Pradesh and Rajasthan on 3rd; over Bihar during 3rd – 5th January, 2026.

- ❖ An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- ❖ Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- ❖ Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- ❖ Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

Action suggested:

- ❖ Wear several layers of loose fitting, light weight; warm woollen clothing.
- ❖ Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm Woolen clothing rather than one layer of heavy cloth.
- ❖ Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- ❖ Avoid or limit outdoor activities.
- ❖ Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
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- ❖ Take safety measures while using electrical and gas heating devices.
- ❖ Extreme care needed for vulnerable people.
- ❖ Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- ❖ Protect livestock from cold weather.

Agromet advisories for likely impact of Cold Waves/ Ground Frost/ Low Temperatures

- In **Punjab, Haryana and Rajasthan** apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

Livestock / Poultry

- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

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.

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. झारखंड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखंड

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. कोंकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुडुचेरी और कराईकल

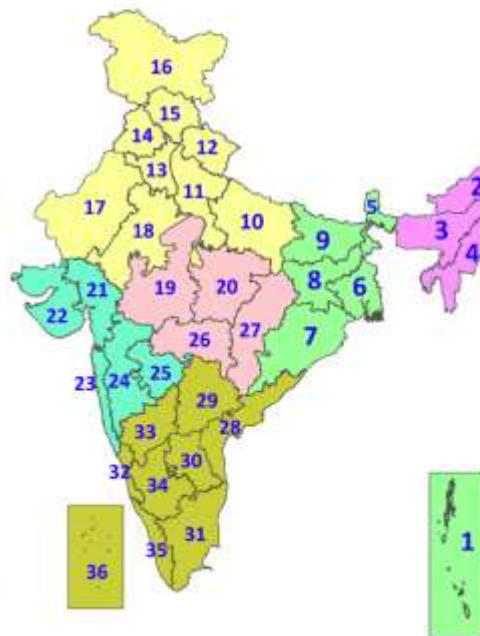
32. तटीय कर्नाटक

33. आंतरिक उत्तरी कर्नाटक

34. आंतरिक 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)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)



Fog



Heavy Snow



Cold Wave



Heavy Rain



Dust Storm



Cold Day



Very Heavy Rain



Heat Wave



Ground Frost



Extremely Heavy Rain



Warm Night



Thunder & Lightning



Hot Day



Hailstorm



Hot & Humid



Dust Raising Winds



Strong Surface Winds

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

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(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 *

Heat Wave

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 $\geq 6.5^{\circ}\text{C}$

(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 62-67 kmph

Very Severe: Wind speed > 67 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 Storm: Wind speed > 220 kmph (> 119 knots)

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