



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 15th January 2026

Time of Issue: 1215 hours IST

Subject: (i) Cold wave conditions very likely to continue over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, West Uttar Pradesh, Rajasthan, Chhattisgarh, Jharkhand and Odisha during next 2 days and abate thereafter.

(ii) Dense fog conditions very likely to continue over northwest India and Bihar during next 5 days.

(iii) Cold day conditions very likely in some pockets of Punjab and Haryana & Chandigarh during next 2 days.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 15th January, 2026:

- ❖ **Dense to very Dense fog (visibility <50 m) conditions** prevailed in most parts of Punjab; in many parts of Haryana; in some parts of Uttarakhand; and in isolated pockets of Uttar Pradesh, Himachal Pradesh; **dense fog (visibility 50-199 m) conditions** prevailed in isolated pockets of Jammu division, West Rajasthan and Tripura.
- ❖ **Visibility reported (in meters ≤ 200 m): Himachal Pradesh:** Jammu: Jammu (50); Bilaspur(20); **Uttarakhand:** Pantnagar (0 M), Laksar/Bhagwanpur/ Khatima (20), Roshnabad /Haridwar/Roorkee (30) Kashipur / Rudrapur(50); **Punjab:** Amritsar (0); Bathinda(30); Faridkot(30); Ballawal Saunkhri(10)/Gurdaspur(120); **Haryana Chandigarh & Delhi:** Ambala(50); Hisar(20)/Chandigarh(100); Karnal(60), Palam(50); **West Uttar Pradesh:** Bareilly(IAF)-(00), Bareilly-(20), Bulandsahar-(25), Shahjahanpur, Sarsawa(IAF), Ams Aligarh & Ams Moradabad-(50) Each; **East Uttar Pradesh:** Fursatganj-(20), Bahraich-(30), Hardoi-(50), Kanpur(City)-(100); **West Rajasthan:** Ganganagar(50); **Tripura:** Agartala(50)
- ❖ **Cold wave to severe cold wave conditions** prevailed in some parts of Himachal Pradesh; in isolated pocket of Uttarakhand and **Cold wave conditions** in some places over Jharkhand and in isolated pockets of Punjab, Haryana, West Uttar Pradesh and Rajasthan.
- ❖ **Severe Cold day conditions** prevailed in Uttarakhand, Haryana, Punjab and cold day conditions in isolated places over West Uttar Pradesh.
- ❖ **Ground frost conditions** have been recorded in isolated pockets over Uttarakhand.

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

- ❖ **Minimum temperatures** were **below 0°C** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **1-5°C** at many places over Himachal Pradesh, Punjab, Haryana, Chandigarh, Delhi and north Rajasthan some places over Uttar Pradesh, Uttarakhand and isolated places over Chhattisgarh; **5°-10°C** at many places over Madhya Pradesh; at a few places over Bihar, Gangetic West Bengal, Assam & Meghalaya, Saurashtra & Kutch; at isolated places over Odisha, Jharkhand, Manipur, Sub-Himalayan West Bengal & Sikkim and Chhattisgarh.
- ❖ Minimum Temperatures were below normal (-3°C to -6°C) over Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Chhattisgarh, Odisha, Saurashtra & Kutch, Jharkhand & Bihar and near normal over rest parts of the country. (refer to ANNEXURE IV)
- ❖ The **lowest minimum temperature** of 0.2°C was observed at Hissar (**Haryana**) over the plains of India.

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

- ❖ Conditions are becoming favourable for cessation of Northeast monsoon rains over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and adjoining areas of Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka during next 2 days.
- ❖ Subtropical westerly Jet Stream with core winds of the order of 125 knots at 12.6 km above mean sea level prevails over Northwest India.

- ❖ An upper air cyclonic circulation lies over Lakshadweep adjoining Southeast Arabian Sea off Kerala coast in lower tropospheric level.
- ❖ A fresh Western Disturbance seen as a trough in middle and upper tropospheric westerlies with its in middle tropospheric level runs roughly along Long. 45°E to the north of Lat. 23°N.
- ❖ Another fresh Western disturbance is likely to affect Northwest India from 19th January, 2026.

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

- ❖ Light/moderate isolated to scattered rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and isolated rainfall/snowfall over Uttarakhand during 16th-21st January and isolated rainfall over Punjab, during 18th - 20th and over Haryana, Chandigarh and West Uttar Pradesh on 18th & 19th January.

Forecast of minimum temperatures:

- ❖ Gradual rise in minimum temperatures likely over northwest India by 3-5°C during next 4 days and no significant change for subsequent 3 days.
- ❖ No significant change in minimum temperatures likely over Central India during next 24 hours; gradual rise by 2-4°C during subsequent 3 days and no significant change for subsequent 3 days.
- ❖ No significant change in minimum temperatures likely over East India during next 3 days; gradual rise by 2-3°C during subsequent 4 days.
- ❖ Gradual fall in minimum temperatures likely over Maharashtra by 2-3°C during next 2 days and thereafter gradual rise by 2-3°C during subsequent 3 days and thereafter no significant change for subsequent 2 days.
- ❖ Gradual rise in minimum temperatures likely over Gujarat State by 2-3°C during next 2 days and no significant change thereafter for subsequent 5 days.
- ❖ No significant change in minimum temperatures likely over rest parts of the country.

Dense Fog, Cold day & Cold wave Warnings:

- ❖ **Dense to very dense fog** conditions very likely to prevail in morning/night hours in isolated/some parts over Punjab, Haryana Chandigarh and Uttarakhand till 17th and **Dense fog** in isolated pockets of Punjab, Haryana Chandigarh till 22nd and Uttarakhand till 20th January 2026.
- ❖ **Dense to very dense fog** conditions very likely to prevail in morning/night hours in isolated/some parts over West Uttar Pradesh till 18th and East Uttar Pradesh till 19th; **Dense fog** in isolated pockets West Uttar Pradesh on 19th and East Uttar Pradesh on 20th January 2026.
- ❖ **Dense fog** conditions also likely during morning/night hours in isolated pockets over Jammu division, Himachal Pradesh till 17th; West Rajasthan till 16th; Sub-Himalayan West Bengal & Sikkim, Bihar till 19th; Gangetic West Bengal during 16th -19th; Assam & Meghalaya till 18th January.
- ❖ **Cold day to severe cold day** conditions likely in some pockets of Punjab, Haryana & Chandigarh on 15th and **Cold day** conditions over Punjab, Haryana & Chandigarh on 16th and West Uttar Pradesh on 15th January.
- ❖ **Cold wave conditions** very likely in some/many parts of in isolated pockets Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi and Odisha on 16th & 17th; Rajasthan, Chhattisgarh & Jharkhand on 16th January.

Weather conditions and forecast over Delhi/NCR during 15th -18th January, 2026 (ANNEXURE III) For more details, kindly refer National Weather Bulletin:

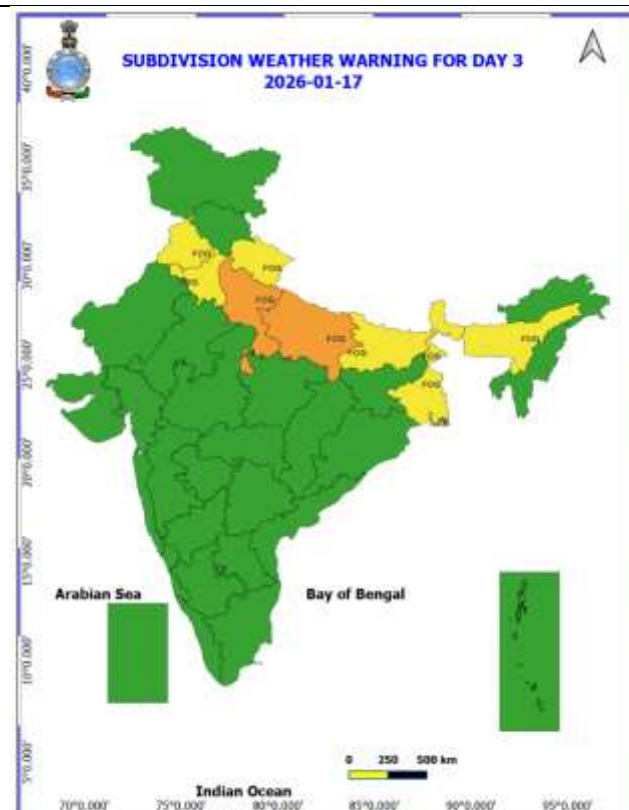
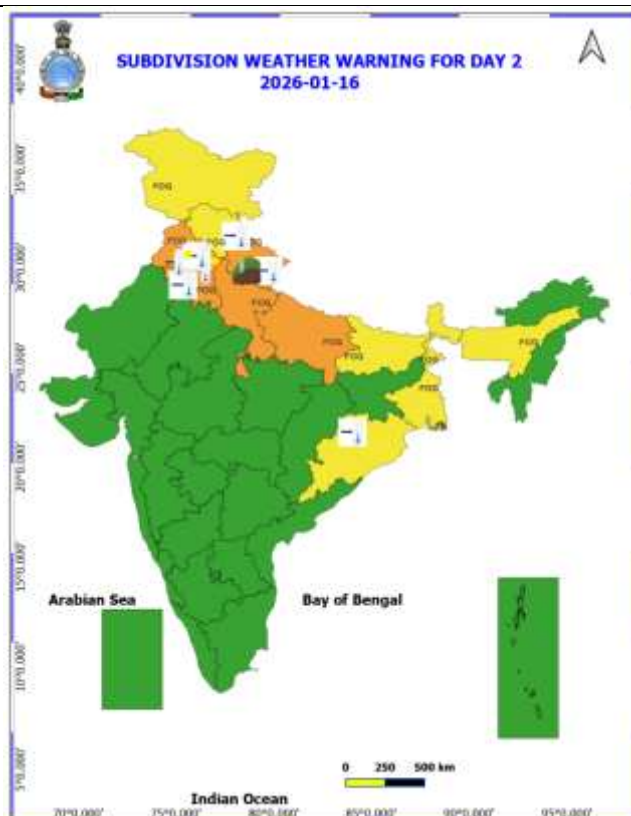
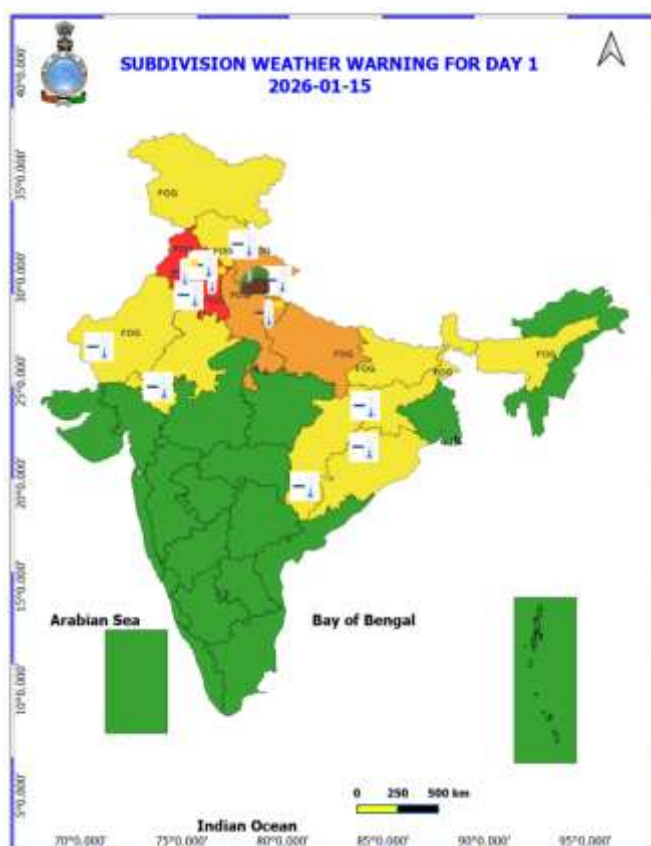
https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

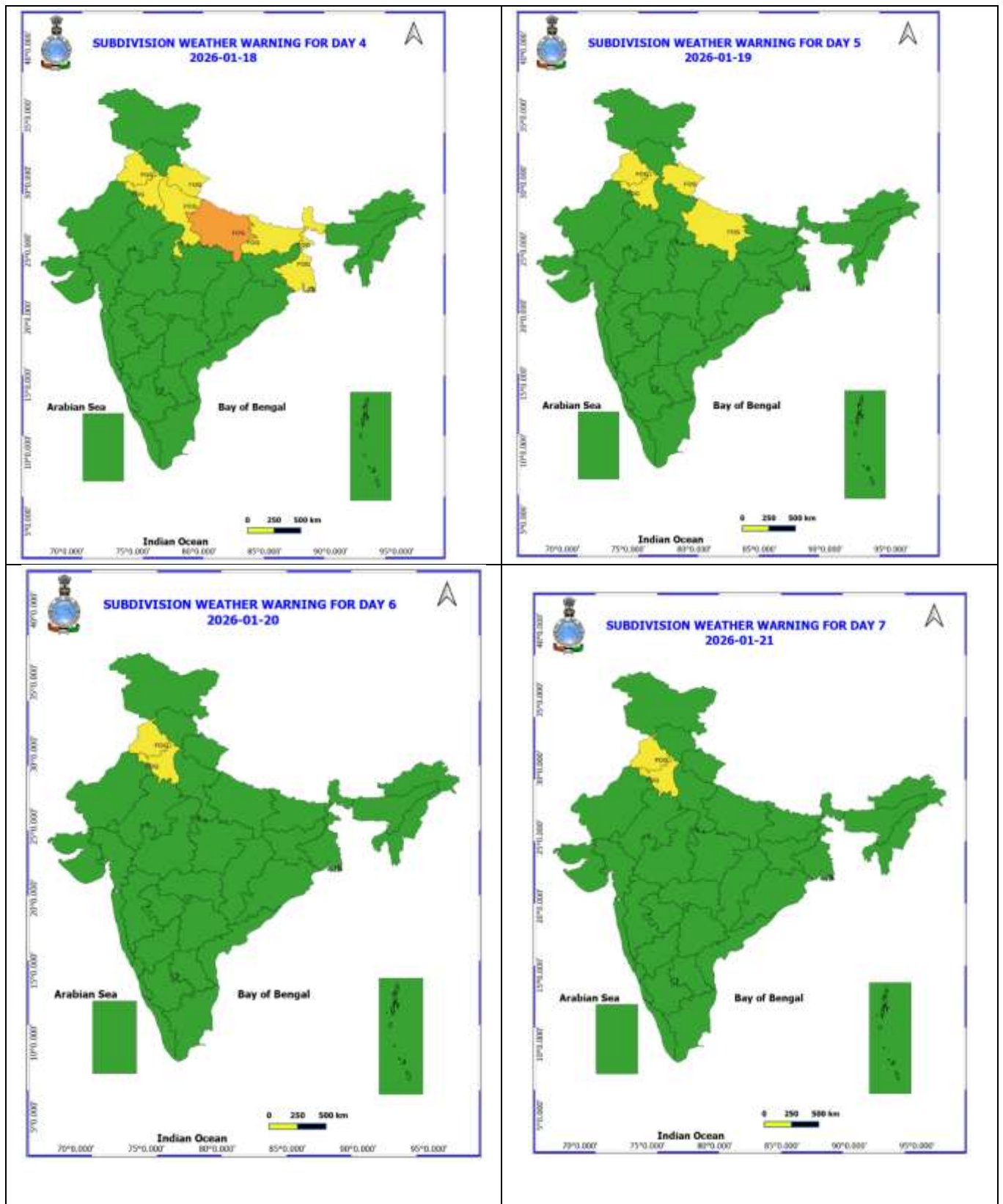
For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

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

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	15- Jan	16- Jan	17- Jan	18- Jan	19- Jan	20- Jan	21- Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
3	ASSAM & MEHGHALAYA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	ISOL	DRY	DRY	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	ISOL	ISOL	ISOL
12	UTTARAKHAND	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
13	HARYANA, CHANDIGARH & DELHI	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	SCT	SCT	SCT	SCT	SCT	SCT
16	JAMMU AND KASHMIR AND LADAKH	DRY	FWS	SCT	ISOL	SCT	SCT	SCT
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
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	DRY	DRY	DRY	DRY	DRY
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	SCT	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 MultiHazard weather warning for next five days available at <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 15th to 18th January 2026

Past Weather:

There has been fall in the minimum temperature by 1-2°C and fall in the maximum temperature by 2-3°C during the past 24 hours over Delhi. The maximum temperatures over Delhi were around 16 to 20°C and the minimum temperatures are around 02-05°C respectively. The minimum temperatures are appreciably below normal (-3.1 to -5.0) at most places and below normal (-1.6 to -3.0°C) at isolated places over Delhi. The maximum temperatures were appreciably below normal (-3.1 to -5.0) at isolated places, below normal (-1.6 to -3.0°C) at isolated places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi. Cold wave conditions have been realized at most places over Delhi. Safdarjung airport reported lowest visibility 100m from 0630 IST to 0730 IST which thereafter improved to 200m from 0800 IST of today, 15-01-2026. Palam airport reported lowest visibility 050m from 0600 IST to 0830 IST which thereafter improved to 100m from 0900 IST of today, 15-01-2026. Mainly clear sky conditions with predominant surface wind from the westerly directions with a wind speed up to 18 kmph prevailed during the past 24 hours. Mainly clear sky conditions, moderate fog at many places with wind speed reaching up to 10 kmph from the west direction prevailed over the region in the forenoon today.

Weather Forecast:

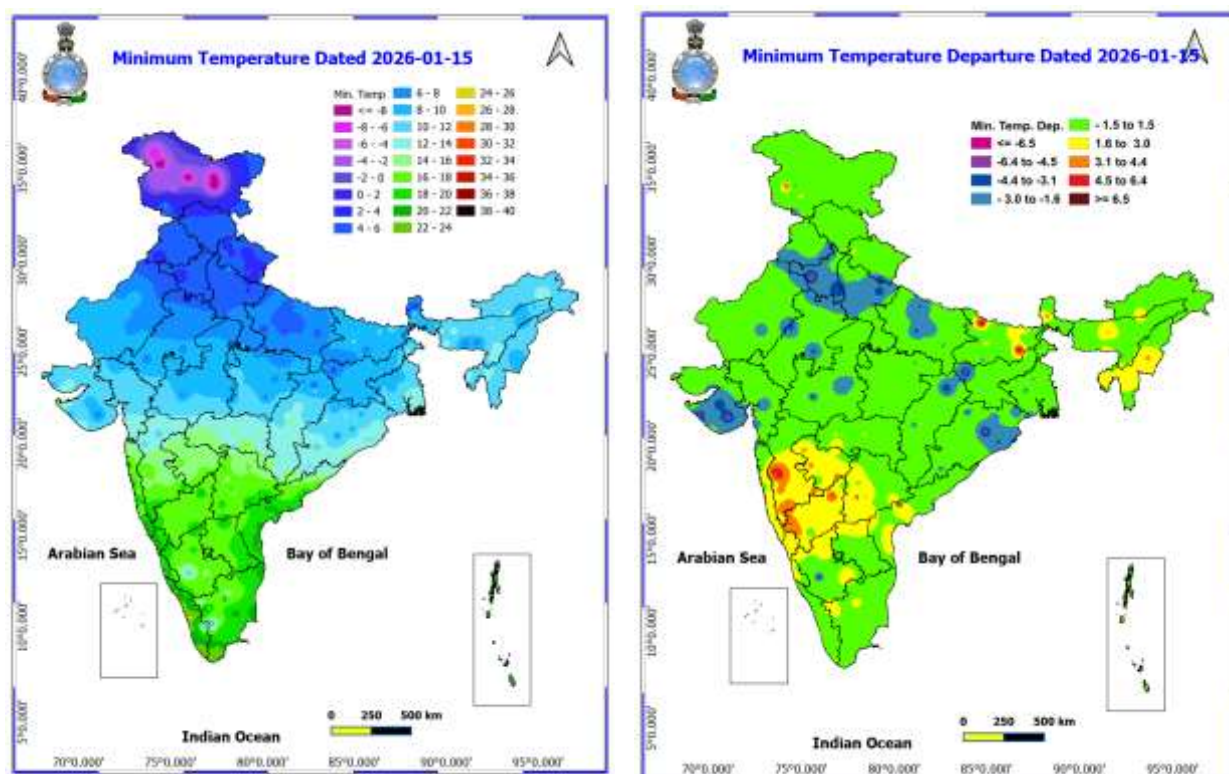
15.01.2026: Mainly clear sky. Cold day conditions at isolated places. Mist/Haze during night. The maximum temperatures are likely to be in the range of 16°C to 18°C. The maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the northwest direction, reaching up to 20 kmph during the afternoon hours. The wind speed will decrease becoming less than 10 kmph from the west direction during evening and night.

16.01.2026: Mainly clear sky becoming partly cloudy sky towards evening. Cold wave conditions at isolated places. 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 21°C to 23°C and 04°C to 06°C respectively. The minimum temperatures will be below normal (-1.6°C to -3.0°C) and the maximum temperatures will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to be from the west direction with wind speed reaching up to 10 kmph during the morning hours. The wind speed will be reaching up to 15 kmph from the northwest direction in the afternoon. The wind speed will be becoming less than 05 kmph from the southeast direction during evening and night.

17.01.2026: Partly cloudy sky. Shallow to Moderate fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 22°C to 24°C and 05°C to 07°C respectively. The minimum will be below normal (-1.6°C to -3.0°C) and the maximum temperatures will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to be from the north direction associated with calm wind reaching up to 05 kmph during morning hours. The wind is likely to be from the northeast direction with wind speed up to 08 kmph during afternoon. The wind speed will be less than 05 kmph from the east direction during evening and night.

18.01.2026: Partly cloudy sky. Shallow to Moderate fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 22°C to 24°C and 06°C to 08°C respectively. The minimum temperatures will be near normal and the maximum temperatures will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to be from the southeast direction with wind speed associated with calm wind reaching up to 5 kmph during the morning hours. The wind speed is likely to be from the southeast direction with wind reaching up to 10 kmph during afternoon hours. The wind speed will decrease gradually becoming less than 05 kmph from the southeast direction during evening and night.

ANNEXURE IV



Reported minimum temperature ($\leq 5^{\circ}\text{C}$) at 0830 hrs IST of the 15th January 2026.

STATION	STATE	MINIMUM TEMPERATURE	DEPARTURE
HISSAR	HARYANA	0.2	-6.1
PANTNAGAR	UTTARAKHAND	0.5	-4.7
SIKAR	RAJASTHAN	1	-4.6
PALAM	NEW DELHI	2.3	-5
AYANAGAR	NEW DELHI	2.7	-4.4
SAFDARJUNG	NEW DELHI	2.9	-4.5
LODHI ROAD	NEW DELHI	3.4	-2.6
FURSATGANJ	UTTAR PRADESH	3.4	-3.5
BAREILLY	UTTAR PRADESH	3.5	-4.3
DALTONGANJ	JHARKHAND	3.7	-5.1
SRI GANGANAGAR	RAJASTHAN	3.7	-1.7
CHURU	RAJASTHAN	3.7	-1.2
PILANI	RAJASTHAN	3.9	-1.7
ALIGARH	UTTAR PRADESH	4	-3

Impact expected due to dense/very dense fog in the morning hours: Dense fog conditions very likely to continue over northwest India and Bihar during next 5 days.

❖ **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/ Severe Cold wave conditions:

- ❖ Cold wave conditions very likely to continue over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, West Uttar Pradesh, Rajasthan, Chhattisgarh, Jharkhand and Odisha during next 2 days and abate thereafter.
- ❖ 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/severe cold day conditions: Cold day conditions very likely in some pockets of Punjab and Haryana & Chandigarh during next 2 days.

- ❖ 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.

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

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

Livestock / Poultry

- Keep the cattle in 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

* 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.

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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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