



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release  
Date: 29<sup>th</sup> January 2026  
Time of Issue: 1310 hours IST

**Subject: (i) Under the influence of two Western Disturbance in quick succession, light to moderate scattered/fairly widespread rainfall/snowfall likely over Western Himalayan region and light to moderate isolated/scattered rainfall over adjoining plains of northwest India and Central India during 31<sup>st</sup> January to 3<sup>rd</sup> February 2026.**

**(ii) Dense fog conditions likely during morning hours in isolated pockets over northwest & adjoining central India till 31<sup>st</sup> January.**

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 29<sup>th</sup> January, 2026:**

- ❖ **Dense to very Dense fog (visibility <50 m) conditions** prevailed in isolated pockets of Uttarakhand, Haryana, Punjab, Chandigarh, Madhya Pradesh and West Uttar Pradesh and **dense fog (visibility 50-199 m) conditions** in isolated pockets over Odisha, Punjab, East Uttar Pradesh, Rajasthan and West Madhya Pradesh.
- ❖ **Visibility reported (in meters  $\leq 200$  m):** **Odisha:** Chandbali (50); **Himachal Pradesh:** Bilaspur (50), Sundernagar (100); **Uttarakhand:** Pantnagar (00), Khatima (30), Roorkee (150); **Punjab:** Patiala (150); **Haryana & Chandigarh:** Ambala (20), Hisar (30), Karnal (30), Narnaul (10), Bhiwani (10), Chandigarh (100); **West Uttar Pradesh:** Sarsawa (IAF) & Agra IAF (00) Each, Bareilly (40), Hindon (IAF) & Najibabad (50) Each, Aligarh, Shahjahanpur & Jhansi (100) Each; **East Uttar Pradesh:** Bahraich (80), Azamgarh, Varanasi (AP) & Lucknow (AP) (100) Each, Fursatganj (200); **West Rajasthan:** Churu (90); **East Rajasthan:** Bhilwara (90), Pilani (90); **West Madhya Pradesh:** Gwalior (100)
- ❖ **Ground frost conditions** prevailed over Uttarakhand.
- ❖ **Light to moderate rainfall/snowfall occurred at many places** over Sikkim

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

- ❖ **Minimum temperatures** were 5-10°C over north-west Uttar Pradesh, Rajasthan, Madhya Pradesh, Bihar, Assam & Meghalaya, Manipur and Mizoram. It is 10°C and above for remaining parts of the country, except higher reaches of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and at isolated places of Uttarakhand, Himachal Pradesh where it was less than 0°C.
- ❖ **Minimum Temperature Departures** were above normal by (3°C to 5°C) over Haryana Chandigarh & Delhi, West Rajasthan, Marathwada, Madhya Maharashtra, Chhattisgarh, Assam & Meghalaya; by (1°C to 3°C) over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Northeast India, Maharashtra and South Peninsular India and near normal over rest parts of the country. (refer to ANNEXURE IV)
- ❖ The **lowest minimum temperature** of 2.0°C was observed at Narnaul (Haryana) over the plains of India.

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

- ❖ A fresh **Western Disturbance** seen as a **cyclonic circulation** over northeast Iran in middle tropospheric level.
- ❖ **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.
- ❖ An **upper air cyclonic circulation** lies over northeast Assam in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over southeast Arabian sea and adjoining south Kerala coast in lower tropospheric level.
- ❖ Another fresh **western disturbance** is likely to affect northwest India from 2<sup>nd</sup> February 2026.

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

- ❖ **Isolated** light/moderate rainfall **accompanied with thunderstorm, lightning** very likely over Madhya Pradesh on 01<sup>st</sup> & 02<sup>nd</sup> February and Chhattisgarh on 02<sup>nd</sup> February.
- ❖ A fresh **western disturbance** is likely to affect northwest India from the night of 30<sup>th</sup> January 2026. Under its influence, scattered to fairly widespread rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 31<sup>st</sup> January and 01<sup>st</sup> February; Himachal Pradesh, Punjab, Haryana and Chandigarh on 01<sup>st</sup> February and Uttarakhand on 01<sup>st</sup> & 02<sup>nd</sup> February. **Isolated** light rainfall with **thunderstorm, lightning** likely over Rajasthan during 31<sup>st</sup> January- 03<sup>rd</sup> February.
- ❖ **Ground frost** conditions likely to prevail over Uttarakhand on 29<sup>th</sup> & 30<sup>th</sup> January.

### Forecast of minimum temperatures:

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

### Dense Fog, Cold wave Warnings:

- ❖ **Dense to very dense fog** conditions likely during morning/night hours in some/isolated pockets over Punjab, Haryana, Chandigarh, Uttar Pradesh till 31<sup>st</sup> and **dense fog conditions** likely over isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Odisha, Sub-Himalayan West Bengal & Sikkim, Bihar till 31<sup>st</sup> January and East Uttar Pradesh till 01<sup>st</sup> February.
- ❖ **Cold wave** conditions likely in isolated pockets over Punjab, Haryana, Chandigarh on 30<sup>th</sup>-31<sup>st</sup> January.

### Fisherman Warning:

Fishermen are advised not to venture into the following areas during 29<sup>th</sup> January to 03<sup>rd</sup> February, 2026:

- **Bay of Bengal:** Along and off south Tamil Nadu and west Sri Lanka coasts, Over Gulf of Mannar, Comorin area on 29<sup>th</sup> January; many parts of Comorin area & adjoining Gulf of Mannar on 30<sup>th</sup> January.
- **Arabian Sea:** Along and off Gujarat coast on 29<sup>th</sup> January.

**Weather conditions and forecast over Delhi/NCR during 29<sup>th</sup> January-01<sup>st</sup> February, 2026 (ANNEXURE III) For more details, kindly refer National Weather Bulletin:**

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

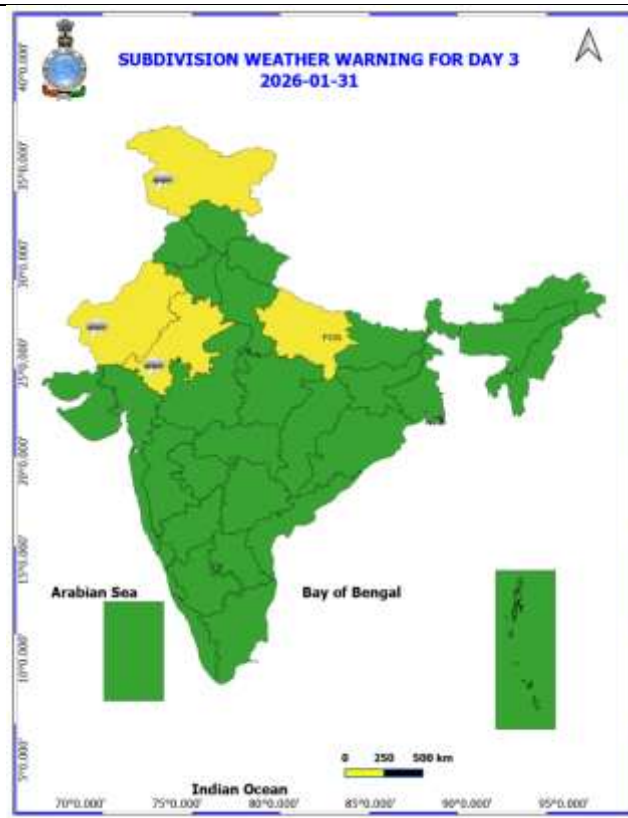
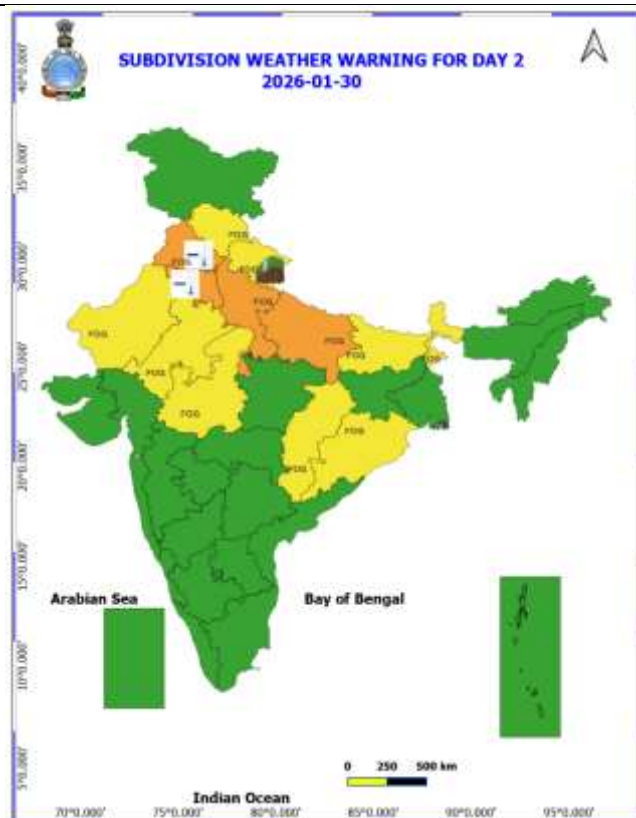
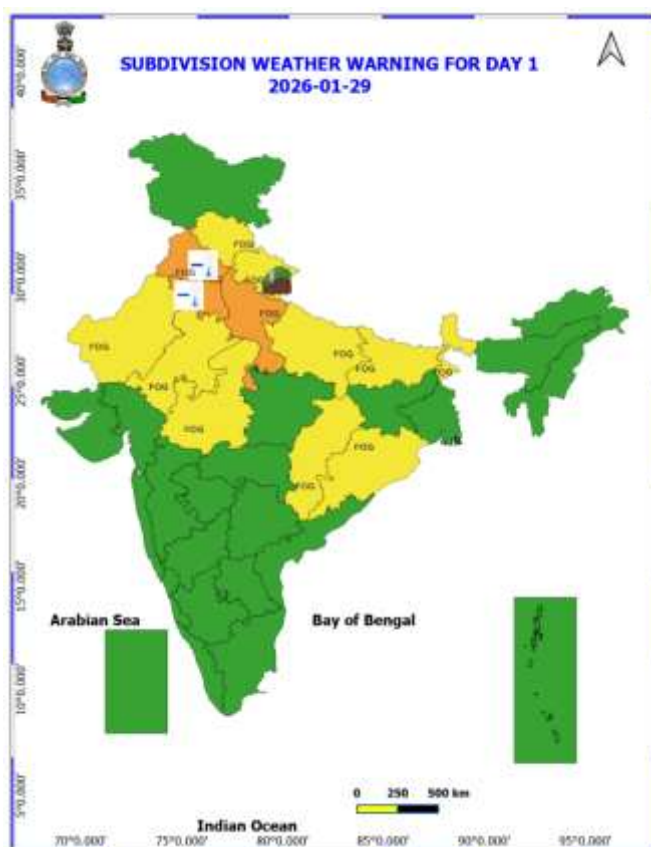
**For District wise warnings refer:** <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

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

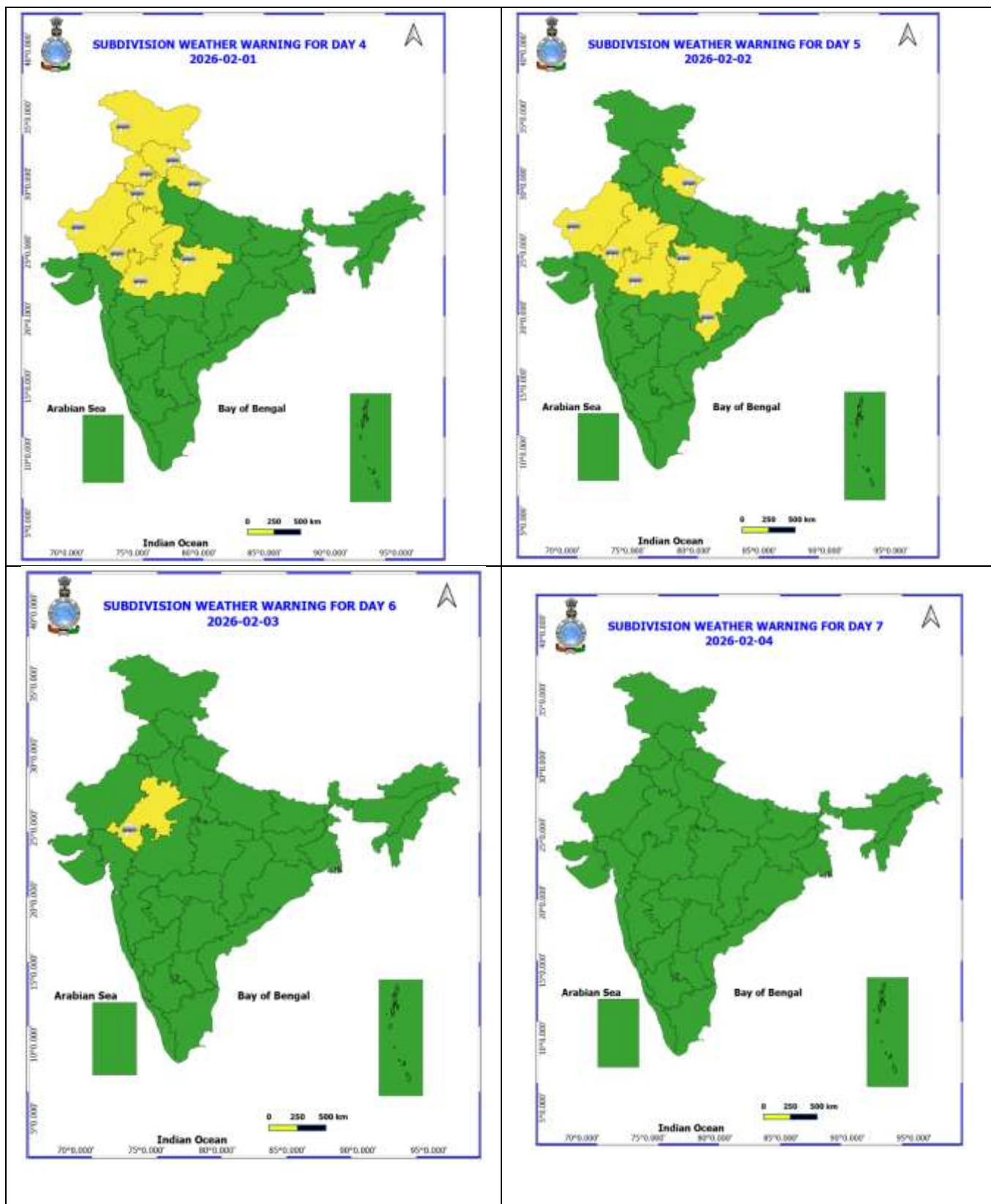
Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	29- Jan	30- Jan	31- Jan	1- Feb	2- Feb	3- Feb	4- Feb
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	DRY	DRY	DRY	ISOL
2	ARUNACHAL PRADESH	SCT	ISOL	DRY	DRY	ISOL	ISOL	ISOL
3	ASSAM & MEHGHALAYA	ISOL	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	DRY	DRY	DRY	ISOL	ISOL	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	ISOL	DRY	ISOL	ISOL
9	BIHAR	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	SCT	SCT	ISOL	DRY
12	UTTARAKHAND	DRY	DRY	ISOL	SCT	SCT	SCT	ISOL
13	HARYANA, CHANDIGARH & DELHI	DRY	DRY	ISOL	FWS	ISOL	ISOL	DRY
14	PUNJAB	DRY	DRY	ISOL	FWS	ISOL	ISOL	DRY
15	HIMACHAL PRADESH	DRY	ISOL	SCT	FWS	SCT	SCT	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	SCT	SCT	FWS	SCT	SCT	DRY
17	WEST RAJASTHAN	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	ISOL	ISOL	ISOL	ISOL	DRY
19	WEST MADHYA PRADESH	DRY	DRY	ISOL	ISOL	ISOL	ISOL	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
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	ISOL	ISOL	DRY
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
27	CHHATTISGARH	DRY	DRY	DRY	DRY	ISOL	ISOL	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	DRY	DRY	DRY	ISOL	ISOL	ISOL	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	ISOL	ISOL	ISOL	DRY
36	LAKSHADWEEP	SCT	DRY	DRY	DRY	DRY	SCT	DRY

- As the lead period increases forecast accuracy decrease.

## ANNEXURE II







- 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 29<sup>th</sup> January to 01<sup>st</sup> February 2026****Past Weather:**

There has been a fall in minimum temperatures up to 1 - 2°C and rise in maximum temperatures by 1 - 2°C during past 24 hours over Delhi. The maximum and minimum temperatures over Delhi were around 17°C to 18°C and 09°C to 11°C respectively. The minimum temperatures are above normal (1.6°C to 3.0°C) at a few places and normal (-1.5°C to 1.5°C) at remaining parts of Delhi. The maximum temperatures were markedly below normal (-5.1°C or less) at isolated places and appreciably below normal (-3.1°C to -5.0°C) over most places of Delhi. Safdarjung reported lowest visibility 500m from 0430 IST to 0530 IST, which thereafter improved to 700m at 0630 IST of today, 29.01.2026. Palam reported lowest visibility 200m from 0330 IST to 0430 IST, which thereafter improved to 300m at 0500 IST of today, 29.01.2026. Generally cloudy sky with shallow to moderate fog, and predominant surface wind from the west direction with a wind speed up to 16 kmph during the past 24 hours. Partly cloudy sky with winds speed reaching 10 kmph from the west direction prevailed over the region in the forenoon today.

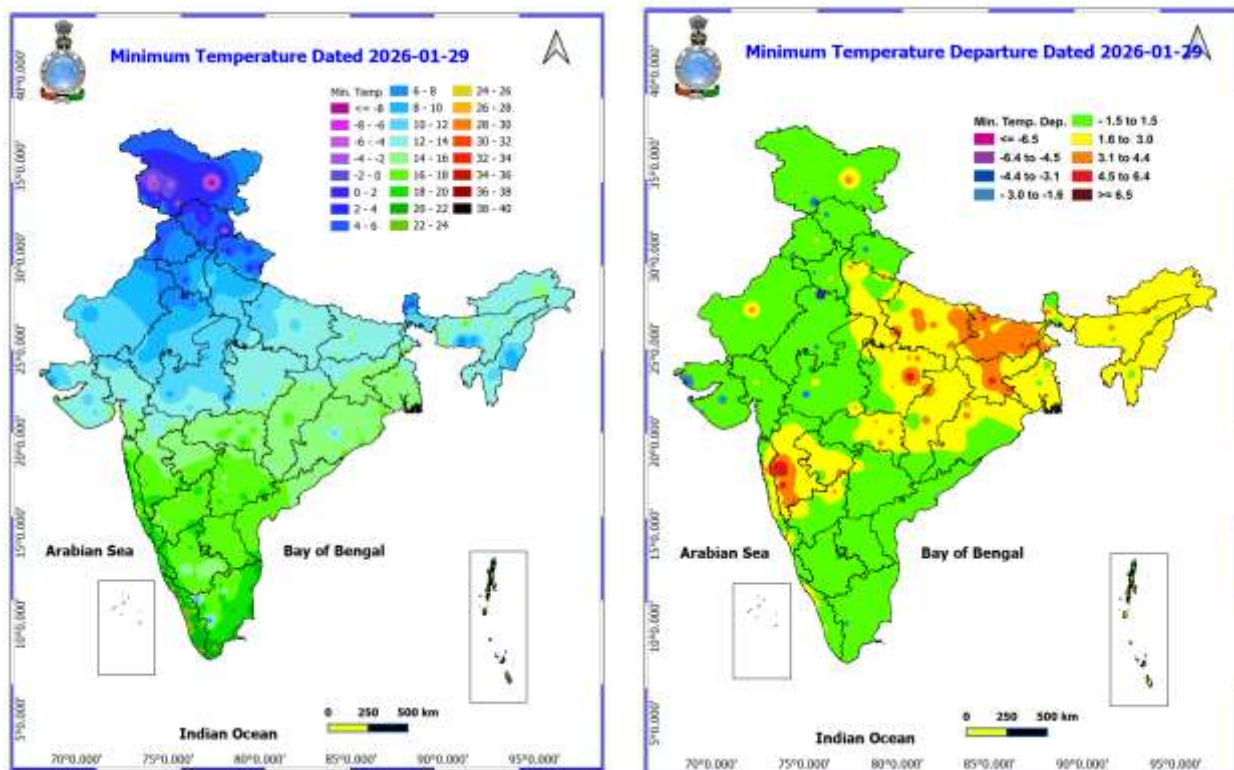
**Weather Forecast:**

**29.01.2026:** Partly cloudy sky. Mist during night. The maximum temperatures are likely to be in the range of 17°C to 19°C. Maximum temperatures will be appreciably below normal (-3.1°C to -5.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speeds less than 15kmph during the afternoon hours. The wind speed will decrease up to 10 kmph from the northwest direction during the evening and night.

**30.01.2026:** Generally cloudy sky. Shallow fog at many places with moderate fog at isolated 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 09°C to 11°C respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) and the maximum temperatures will be appreciably below normal (-3.1°C to -5.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed less than 10kmph during the morning hours. The wind speed will increase becoming up to 12kmph from the northwest direction in the afternoon hours. The wind speed will decrease up to 05kmph from the north direction during evening and night.

**31.01.2026:** Partly cloudy sky likely to become generally cloudy sky towards afternoon/evening with possibility of a spell of very light rain accompanied with thunderstorm/lightning and gusty winds speed reaching 30-40 kmph towards night. 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 19°C to 21°C and 06°C to 08°C respectively. The minimum temperatures will be below normal (-1.6°C to 3.0°C) and the maximum temperatures will be 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 up to 08kmph from the northeast direction in the afternoon. The wind speed will increase up to 10kmph from the east direction during the evening and night.

**01.02.2026:** Generally cloudy sky. One or two spells of very light to light rain accompanied with thunderstorm/lightning with gusty winds (speed 30-40 kmph) during morning to forenoon. Also, a spell of very light to light rain accompanied with thunderstorm/lightning with gusty winds (speed 30-40 kmph) during afternoon to evening hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 17°C to 19°C and 11°C to 13°C, respectively. The minimum temperatures will be appreciable above normal (3.1°C to 5.0°C) and the maximum temperatures will be appreciable below normal (-3.1°C to 5.0°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 05 kmph during the morning hours. The wind speed will increase up to 15kmph from the southeast direction in the afternoon. The wind speed will decrease becoming up to 12kmph from the northeast direction during the evening and night.



Reported minimum temperature over the plains ( $\leq 8^{\circ}\text{C}$ ) at 0830 hrs IST of the 29th January 2026.

STATION	STATE	MINIMUM TEMPERATURE ( $^{\circ}\text{C}$ )
NARNAUL	HARYANA	2.0
AMRITSAR	PUNJAB	4.7
ALWAR	RAJASTHAN	5.2
HISAR	HARYANA	5.6
PILANI	RAJASTHAN	6.0
BANASTHLI VIDYAPEETH	RAJASTHAN	6.3
CHANDIGARH	HARYANA	6.6
CHURU	RAJASTHAN	7.0
GANGANAGAR	RAJASTHAN	7.3
DHAR	MADHYA PRADESH	8.0
PATIALA	PUNJAB	8.0

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

- ❖ **Isolated** light/moderate rainfall **accompanied with thunderstorm, lightning** very likely over Madhya Pradesh on 01<sup>st</sup> & 02<sup>nd</sup> February and Chhattisgarh on 02<sup>nd</sup> February; Rajasthan during 31<sup>st</sup> January- 03<sup>rd</sup> February.
- ❖ Scattered to fairly widespread rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 31<sup>st</sup> January and 01<sup>st</sup> February; Himachal Pradesh, Punjab, Haryana and Chandigarh on 01<sup>st</sup> February and Uttarakhand on 01<sup>st</sup> & 02<sup>nd</sup> February.

#### 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 in some/isolated pockets over Punjab, Haryana, Chandigarh, Uttar Pradesh till 31<sup>st</sup> and **dense fog conditions** likely over isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Odisha, Sub-Himalayan West Bengal & Sikkim, Bihar till 31<sup>st</sup> January and East Uttar Pradesh till 01<sup>st</sup> February.

#### ❖ **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.

#### **Impact expected due to Cold Wave/ Severe Cold wave conditions:**

**Cold wave** conditions likely in isolated pockets over Punjab, Haryana, Chandigarh on 30<sup>th</sup>-31<sup>st</sup> January.

- ❖ 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 / Low Temperatures**

- In **Uttarakhand, Punjab** and **Haryana**, 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.

### **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 / Poultry**

- Keep the animals inside the shed during heavy rainfall/ Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.
- To protect from cold, keep cattle inside the sheds during night and provide dry bedding. Also keep the chicks warm by providing artificial light in the poultry sheds.

### **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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(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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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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