



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 04<sup>th</sup> February 2026

Time of Issue: 1320 hours

**Subject: (i) Under the influence of two Western Disturbances, isolated to scattered rainfall/snowfall likely over Western Himalayan region on 05<sup>th</sup> & 06<sup>th</sup> and 9<sup>th</sup> & 10<sup>th</sup> February respectively.**

**(ii) Dense to very dense fog conditions likely during morning/night hours at isolated/ few places over Himachal Pradesh, Uttarakhand, plains of northwest India and west Madhya Pradesh till 06<sup>th</sup> February, 2026.**

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 04<sup>th</sup> February, 2026:**

- ❖ **Dense to very Dense fog (visibility <50 m)** conditions prevailed at many places over Haryana and West Uttar Pradesh; at a few places over East Uttar Pradesh; in isolated pockets of Punjab and Himachal Pradesh and **dense fog (visibility 50-199 m)** conditions in isolated pockets over East Delhi, Meghalaya, Jharkhand, Chandigarh, East Rajasthan, Bihar and Uttarakhand.
- ❖ **Visibility Reported (In Meters  $\leq 200$  m): Himachal Pradesh:** Bilaspur(30), Sundernagar(100); **Punjab:** Adampur (<50), Amritsar (50) Patiala (50), Bhatinda AMFU (80); **Haryana:** Hisar (30), Narnaul (60) Karnal (30), Ambala (0), Chandigarh AP(<50), Bhiwani (10), Narnaul (20); **West Uttar Pradesh:** Agra(IAF), Hindon(IAF) & Sarsawa(0) Each, Agra(Taj)(20), Aligarh(30), Najibabad, Muzaffarnagar & Meerut(50) Each, Bareilly(90), AMS Aligarh(100), Jhansi(150); **East Uttar Pradesh:** Prayagraj(IAF) & Kanpur(IAF)(0) Each, Kanpur(City)(10), Barabanki & Prayagraj(20) Each, Fatehpur & Sultanpur(30) Each, Ams Kushinagar, Azamgarh, Ayodhya & Fursatganj(50) Each, Hardoi(80), Ams Ayodhya, Fatehgarh & Lucknow(AP)(100) Each; **West Madhya Pradesh:** Gwalior, Datia (<50); **East Madhya Pradesh:** Rewa(<50); **Uttarakhand:** Roorkee(100), Haridwar(100), Bhagwanpur(100), Khatima(75); **Meghalaya:** Barapani(50); **East Rajasthan:** Bhilwara (100); **Jharkhand:** Daltonganj (150); **Bihar:** Gaya (100);
- ❖ **Light to moderate rainfall/snowfall** occurred at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand
- ❖ **Light to moderate rainfall** occurred at isolated places over Uttar Pradesh and East Rajasthan and **light rainfall** over Madhya Pradesh and Chhattisgarh.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed **30-50 kmph** over Kashmir, Himachal Pradesh and Uttarakhand.
- ❖ **Hailstorm** reported over Himachal Pradesh, Uttarakhand and West Madhya Pradesh.
- ❖ **Ground frost** reported over Uttarakhand.

**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 Punjab, Haryana, Chandigarh, Delhi, North Rajasthan and West Uttar Pradesh and **10-15°C** many places of remaining parts of northwest India, Central, East & Northeast India. It was **15°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 Punjab, Uttar Pradesh, Rajasthan, Madhya Pradesh, Madhya Maharashtra, Bihar, Gujarat and Saurashtra & Kutch; by (1°C to 3°C) over Western Himalayan Region, Odisha, Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Assam & Meghalaya and Gangetic West Bengal, Kerala & Mahe, Lakshadweep and Andaman & Nicobar Islands and near normal over rest parts of the country. (refer to ANNEXURE IV)
- ❖ The **lowest minimum temperature** of 4.3°C was observed at Hissar (**Haryana**) over the plains of India.

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

- ❖ A fresh **Western Disturbance** seen as a trough in middle level tropospheric westerlies roughly along Long.45°E to the north of Lat. 27°N.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order of 140 knots at 12.6 km above mean sea level prevails over East & Northeast India.
- ❖ An **upper air cyclonic circulation** lies over South Kerala & neighbourhood in lower tropospheric level.
- ❖ A **trough** runs off Kerala-Karnataka coasts in lower tropospheric level.
- ❖ Another fresh **western disturbance** is likely to affect western Himalayan region from the night of 08<sup>th</sup> February 2026.

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

- ❖ **Isolated to Scattered** rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 5<sup>th</sup> & 6<sup>th</sup>; Himachal Pradesh and Uttarakhand on 6<sup>th</sup> February.
- ❖ **Another wet spell with Isolated to Scattered** rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 9<sup>th</sup> & 10<sup>th</sup> February.
- ❖ **Isolated ground frost activity also likely** over Uttarakhand on 4<sup>th</sup> & 5<sup>th</sup> February, 2026.

### Forecast of minimum temperatures:

- ❖ No significant change in minimum temperatures likely over northwest India during next 7 days except Uttar Pradesh where there is gradual fall in minimum temperature by 2-3°C during next 2-3 days.
- ❖ Gradual fall in minimum temperature by 2-3°C over Central India during next 48 hours and no significant change thereafter.
- ❖ Gradual fall in minimum temperature by 2-4°C over East India during next 3 days and no significant change thereafter.
- ❖ No significant change in minimum temperatures likely over Gujarat State during next 4 days and gradual fall by 2-3°C for subsequent 3 days
- ❖ No significant change in minimum temperatures likely over Maharashtra during next 24 hours, gradual fall by 2-3°C for subsequent 2 days and no significant change thereafter.
- ❖ No significant change in minimum temperatures over Northeast India.

### Dense Fog, Cold day Warnings:

- ❖ **Dense to very dense fog conditions** likely during morning/night hours at isolated places over Uttar Pradesh till 7<sup>th</sup> February.
- ❖ **Dense fog conditions** likely during morning/night hours at isolated/ some places over Himachal Pradesh, Uttarakhand, West Madhya Pradesh and Bihar till 6<sup>th</sup>; Punjab, Haryana Chandigarh, northeast Rajasthan, Sub-Himalayan West Bengal & Sikkim and Jharkhand till 5<sup>th</sup> and Meghalaya till 7<sup>th</sup> February.

**Weather conditions and forecast over Delhi/NCR during 4<sup>th</sup> -07<sup>th</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>

### Fisherman Warning:

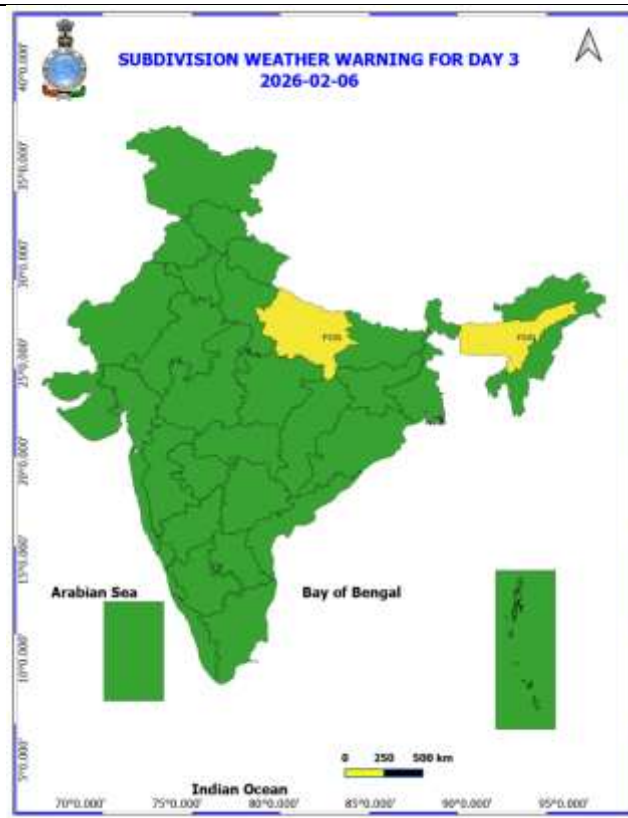
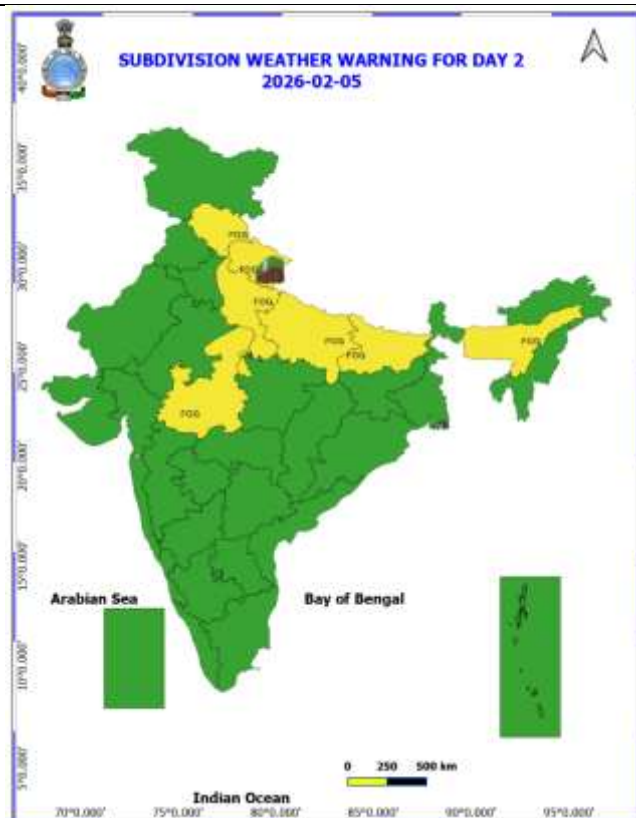
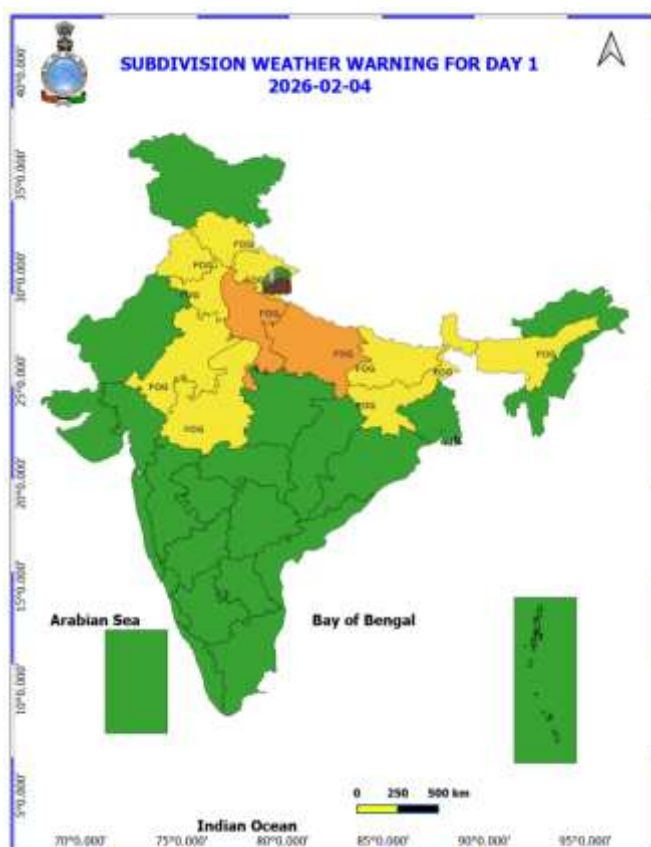
Fishermen are advised not to venture into the following areas during 04<sup>th</sup> February to 09<sup>th</sup> February, 2026:

- **Bay of Bengal:** Over Gulf of Mannar and adjoining Comorin area on 4<sup>th</sup> & 5<sup>th</sup> February.
- **Arabian Sea:** No warning.

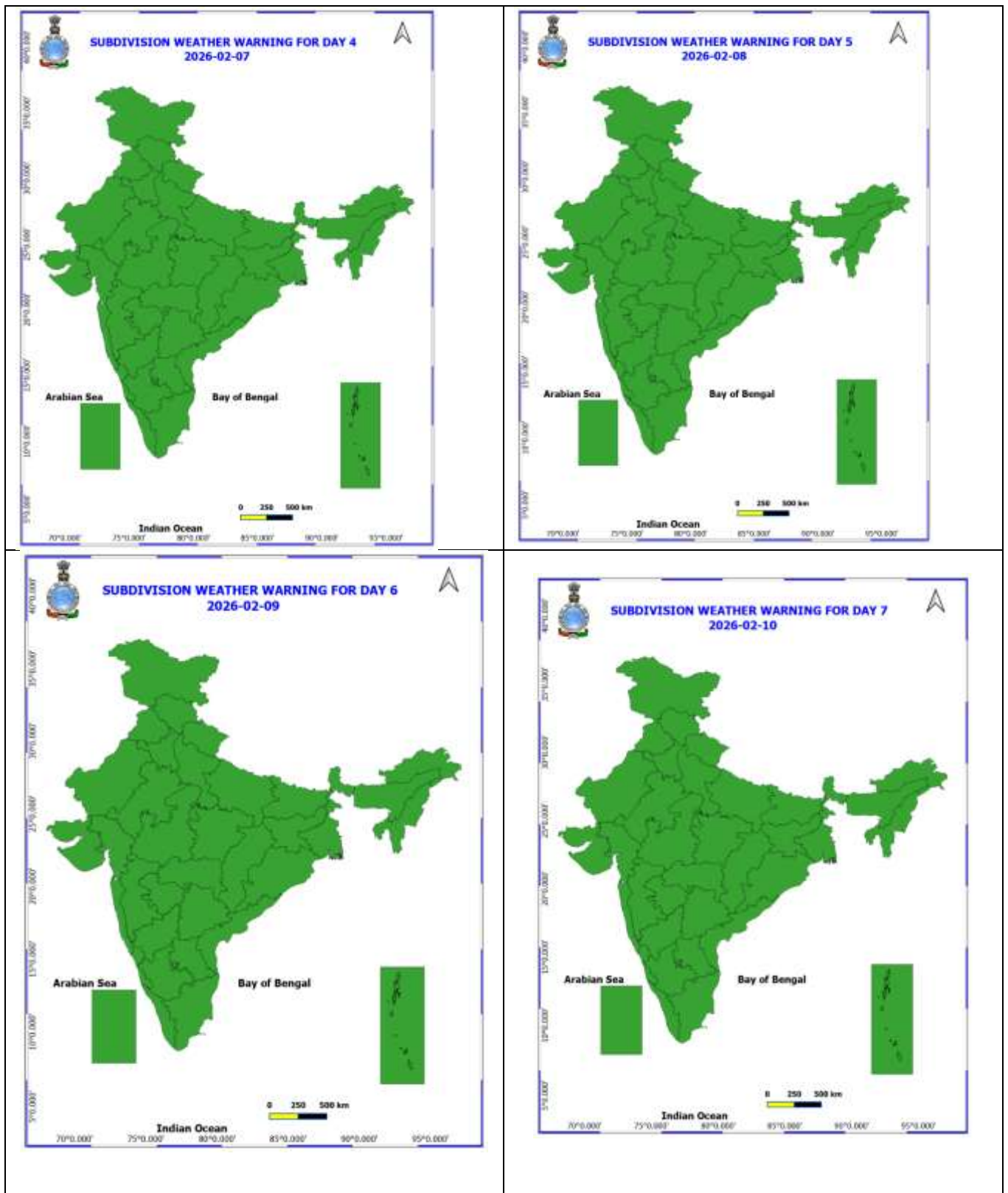
| Table-1                  |  |        |        |        |        |        |        |         |
|--------------------------|--|--------|--------|--------|--------|--------|--------|---------|
| 7 Days Rainfall Forecast |  |        |        |        |        |        |        |         |
| S.No.                    | Subdivision                            | 4- Feb | 5- Feb | 6- Feb | 7- Feb | 8- Feb | 9- Feb | 10- Feb |
|                          |  | Day 1  | Day 2  | Day 3  | Day 4  | Day 5  | Day 6  | Day 7   |
| 1                        | ANDAMAN & NICOBAR ISLANDS              | ISOL   | ISOL   | ISOL   | DRY    | DRY    | ISOL   | ISOL    |
| 2                        | ARUNACHAL PRADESH                      | ISOL   | ISOL   | DRY    | DRY    | ISOL   | DRY    | DRY     |
| 3                        | ASSAM & MEHGHALAYA                     | DRY    | DRY    | DRY    | DRY    | DRY    | DRY    | DRY     |
| 4                        | NAGALAND, MANIPUR, MIZORAM AND TRIPURA | DRY    | DRY    | DRY    | DRY    | DRY    | DRY    | DRY     |
| 5                        | SUB HIMALAYAN WEST BENGAL & SIKKIM     | ISOL   | DRY    | DRY    | ISOL   | 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    | ISOL   | DRY    | DRY    | ISOL   | ISOL    |
| 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    | ISOL   | DRY    | DRY    | SCT    | SCT     |
| 16                       | JAMMU AND KASHMIR AND LADAKH           | DRY    | ISOL   | SCT    | DRY    | ISOL   | SCT    | FWS     |
| 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    | ISOL   | ISOL    |
| 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   | ISOL   | 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   | ISOL   | DRY    | DRY    | DRY    | DRY    | DRY     |
| 36                       | LAKSHADWEEP                            | SCT    | DRY    | DRY    | DRY    | DRY    | DRY    | 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 Multi Hazard weather warning for next five days available at  
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

**Weather forecast over Delhi/NCR during 04<sup>th</sup> to 07<sup>th</sup> February 2026****Past Weather:**

There has been fall in the minimum temperature upto 1-2°C and appreciable fall in the maximum temperature upto 3°C - 5°C during the past 24 hours over Delhi. The maximum temperatures over Delhi were around 19°C to 22°C and the minimum temperatures are around 08°C-09°C, respectively. The minimum temperatures are below normal (-1.6°C to -3.0°C) at isolated places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi. The maximum temperatures are appreciably below normal (-3.1°C to -5.0°C) at isolated places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi. Safdarjung Airport reported lowest visibility 350m from 0800 IST to 0830 IST, which thereafter improved to 450m from 0900 IST of today, 04-02-2026. Palam Airport reported lowest visibility 500 m from 0730 IST to 0830 IST, which thereafter improved to 600m from 0900 IST of today, 04-02-2026. Partly cloudy sky conditions with shallow to moderate fog at many places. The winds speed reaching upto 10 kmph from the west direction prevailed over past 24 hours. Mainly clear sky with wind speed reaching upto 10 kmph from the southwest direction to be prevailed over the region in the forenoon today.

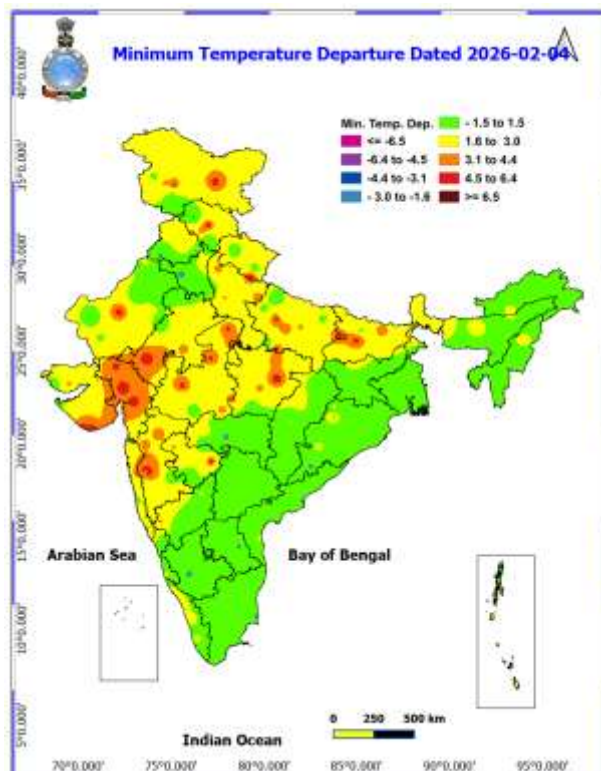
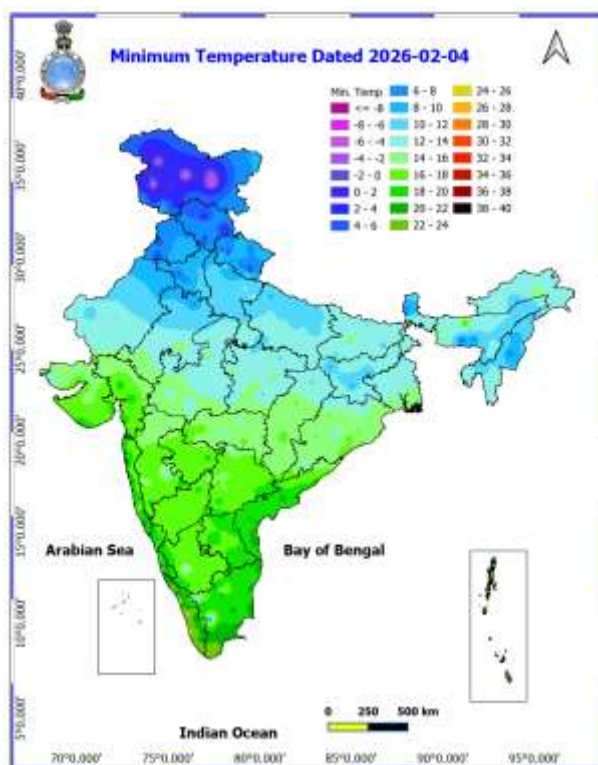
**Weather Forecast:**

**04.02.2026:** Mainly clear sky. Sustained surface winds (speed 10-20 kmph). Mist during night. The maximum temperatures are likely to be in the range of 22°C to 24°C. The maximum temperatures will near normal over Delhi. The predominant surface wind is likely to be from the northwest direction reaching up to 15 kmph during the afternoon hours. The wind speed will decrease becoming less than 12 kmph from the northwest direction during evening and night.

**05.02.2026:** Mainly clear sky. Sustained surface winds (speed 10-20 kmph). 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 21°C to 23°C and 08°C to 10°C respectively. The minimum temperature will near normal and the maximum temperatures will near normal over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 15 kmph during the morning hours. The wind speed will increase becoming upto 20 kmph from northwest direction during the afternoon. The wind speed will decrease becoming upto 15 kmph from the west direction during evening and night.

**06.02.2026:** Partly cloudy sky. Strong surface winds (speed 15-25 kmph) during the day. Shallow 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 09°C to 11°C respectively. The minimum temperature will be above normal (1.6 to 3.0°C) and the maximum temperatures will be above normal (1.6 to 3.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 20 kmph during the morning hours. The wind speed will increase becoming upto 25 kmph from northwest direction during the afternoon. The wind speed will decrease becoming upto 20 kmph from the northwest direction during evening and night.

**07.02.2026:** Partly cloudy sky. Strong surface winds (speed 15-25 kmph) during the day. Shallow 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 10°C to 12°C respectively. The minimum temperature will be above normal (1.6 to 3.0°C) and the maximum temperatures will be above normal (1.6 to 3.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 20 kmph during the morning hours. The wind speed will increase becoming upto 25 kmph from northwest direction during the afternoon. The wind speed will decrease becoming upto 10 kmph from the northwest direction during evening and night.



Reported minimum temperature over the plains ( $\leq 8^{\circ}\text{C}$ ) at 0830 hrs IST of the 04<sup>th</sup> February 2026.

| NAME       | STATE      | MINIMUM TEMPERATURE ( $^{\circ}\text{C}$ ) |
|------------|------------|--|
| HISAR      | HARYANA    | 4.3  |
| AMRITSAR   | PUNJAB     | 4.6  |
| PATIALA    | PUNJAB     | 7.0  |
| CHANDIGARH | CHANDIGARH | 7.4  |
| KARNAL     | HARYANA    | 7.5  |

#### 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 Himachal Pradesh, Uttarakhand, plains of northwest India and west Madhya Pradesh till 06<sup>th</sup> 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.

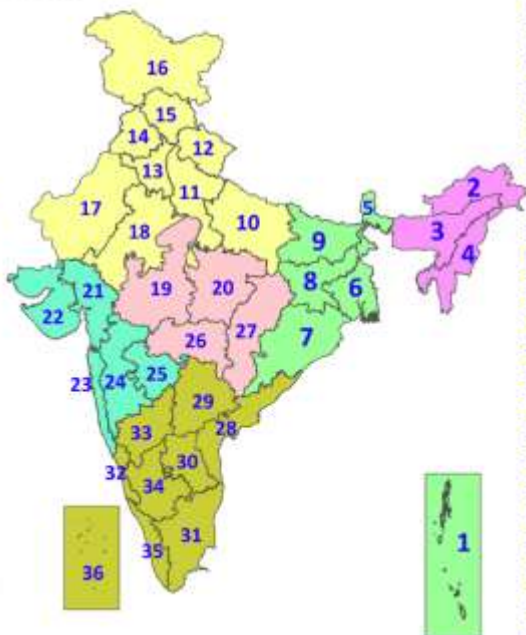
#### ❖ Human Health:

- 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.



## 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.

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 \*

### 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)

\* 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)