



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 24th December, 2025

Time of Issue: 1310 hours IST

Subject: (i) Dense to very dense fog conditions very likely to continue during night/morning hours over Uttar Pradesh, Haryana & Chandigarh and Punjab till 31st; over Himachal Pradesh and Uttarakhand till 29th; in isolated pockets of Jammu division till 27th December, with Dense fog conditions during night/morning hours very likely at some pockets over Bihar, Odisha and Northeast India till 29th; Sub-Himalayan West Bengal and East Madhya Pradesh till 26th.

(ii) Cold day to Severe cold day conditions at a few places over Uttarakhand during 24th to 26th, Cold day conditions very likely in isolated pockets of Bihar likely to continue till 28th, over east Uttar Pradesh till 26th December.

(iii) Cold wave conditions likely over parts of northwest India on 26th and 27th December, 2025.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 24th December, 2025:

- ❖ **Dense to very Dense fog (visibility <50 m)** prevailed in some/many parts of Uttar Pradesh; in isolated pockets of Odisha, Himachal Pradesh; **dense fog (visibility 50-199 m):** reported in isolated pockets of Tripura, West Bengal & Sikkim, Bihar, Uttarakhand, Punjab, Haryana, Chandigarh and Madhya Pradesh.
- ❖ **Visibility in meter reported (≤ 200 m): Gangetic West Bengal:** Durgapur, Sriniketan (50m); **Sub-Himalayan West Bengal & Sikkim:** Coochbehar (100m); **Odisha:** Sambalpur, Rourkela (0-49m); Jharsuguda, Hirakud (50-199m); Bihar: Gaya (50m); Bhagalpur (50-199m); **Himachal Pradesh:** Bilaspur (20 m) & Sundernagar (70 m); **Uttarakhand:** Pantnagar (200 m), Khatima (60m); **Punjab:** Adampur IAF(0m), Pathankot IAF(100m) ; **Haryana and Chandigarh:** Chandigarh (100 M); Ambala (150M); **West Uttar Pradesh:** Sarsawa (IAF) & Bareilly(IAF)-00 each, Etawah-40, Bareilly(O)-50, Najibabad-(80m) ; **East Uttar Pradesh:** Prayagraj(IAF) & Kanpur(IAF)-00 Each, Kanpur(City)-10, Prayagraj & Bahraich-20 Each, Fursatganj, Ayodhya, Churk & Varanasi(AP)-50 Each, Fatehgarh & Hardoi-80 Each, Sultanpur, Lucknow(AP) & Barabanki-100 Each; **Tripura:** Agartala-(100m)
- ❖ **Cold day to severe cold day conditions** observed at isolated places over Uttarakhand and East Uttar Pradesh; **cold day conditions** in isolated pockets of West Uttar Pradesh.

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

- ❖ Subtropical westerly Jet Stream with core winds of the order of 130 knots at 12.6 km above mean sea level prevails over Northeast India.
- ❖ An **upper air cyclonic circulation** over south east Arabian sea adjoining south Kerala in lower tropospheric level.
- ❖ A **fresh feeble Western Disturbance** is likely to affect Western Himalayan Region from 27th December, 2025.

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

- ❖ Isolated to scattered light/moderate rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 27th -30th and over Himachal Pradesh on 28th & 30th & over Uttarakhand on 29th & 30th December.
- ❖ **Isolated Thunderstorm and lightning** with gusty wind speed (30-40kmph) likely to prevail over Andaman & Nicobar Islands during 27th -29th December.

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

- ❖ **Minimum temperatures** were **below 5°C** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and at a few places over Himachal Pradesh; in the **range of 5°-10°C** at many places Uttarakhand, east Uttar Pradesh, Haryana Chandigarh & Delhi, Punjab, West Rajasthan and Madhya Maharashtra; at a few places over Madhya Pradesh, east Rajasthan, Odisha, Chhattisgarh and Jharkhand; at isolated places over West Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal, Sub-Himalayan West Bengal & Sikkim, North Interior Karnataka, Telangana and Meghalaya.
- ❖ **Minimum Temperatures departures** were **markedly below normal (<-5.1°C)** at isolated places Chhattisgarh; **appreciably below normal (-5.0°C to -3.1°C)** at few places over North Interior Karnataka and Telangana; at isolated places over Marathawada, Vidarbha, Tamil Nadu, Puducherry & Karaikal & Andaman & Nicobar Islands and **below normal (-1.6°C to -3.0°C)** at a few places over Kerala & Mahe, Coastal Karnataka and South Interior Karnataka; at isolated places over Madhya Pradesh, Konkan & Goa, Odisha, Bihar, Gangetic West Bengal, Assam and Lakshadweep. (**refer to ANNEXURE IV**)
- ❖ **Minimum Temperatures show rising tendency during past 24 hours by 1-3°C** over many parts of Uttar Pradesh; at few places over Tamil Nadu, Puducherry & Karaikal; over isolated parts of Marathawada, Bihar, Assam & Meghalaya, Coastal Karnataka, Vidarbha, Madhya Pradesh and Gujarat Region; **falling tendency by 1-3°C** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh; at isolated places over north Rajasthan, Odisha, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. **The lowest minimum temperature of 5.0 was observed over Sikar (East Rajasthan) over the plains of India.**

Forecast of minimum temperatures:

- ❖ Gradual fall in minimum temperature by 2-4°C very likely over Northwest for next 2 days and no significant change thereafter for subsequent 5 days.
- ❖ Gradual fall in minimum temperature by 2-3°C very likely over East India for next 3 days and no significant change thereafter for subsequent 4 days.
- ❖ No significant change in minimum temperature over northeast India for next 2 days and thereafter gradual fall by 3-4°C for subsequent 5 days.
- ❖ No significant change in minimum temperature over remaining parts of the country during next 7 days.

Dense Fog & Cold wave Warnings:

- ❖ **Dense to very dense fog conditions** during night/morning hours very likely in many parts of East Uttar Pradesh till 28th; in some parts of East Uttar Pradesh during 29th -31st; West Uttar Pradesh till 28th; Punjab till 27th; in isolated pockets of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad till 28th; Himachal Pradesh till 29th; Uttarakhand till 29th; Punjab and Haryana Chandigarh & Delhi during 27th -29th; Uttar Pradesh on 28th & 29th with **Dense fog conditions** during night/morning hours very likely in some pocket of Bihar till 25th and isolated pockets over East Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim till 26th; over Gangetic West Bengal till 25th; over Odisha till 29th; Assam & Meghalaya till 29th; Nagaland, Manipur, Mizoram & Tripura till 27th; Bihar during 25th -29th; West Uttar Pradesh, Punjab and Haryana Chandigarh & Delhi during 29th -31st December.
- ❖ **Cold wave conditions** very likely in isolated pockets of Punjab, Haryana, Chandigarh, Chhattisgarh, Jharkhand and Rajasthan during 25th -27th December.
- ❖ **Cold day to severe cold day conditions** very likely in isolated pockets of Uttarakhand during 24th -27th **Cold day conditions** very likely in some parts of East Uttar Pradesh during 24th -26th; isolated pockets of Bihar 24th -28th December.

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 24th December to 29th December:

- Bay of Bengal: Over Gulf of Mannar & adjoining, some parts of Comorin area during 24th to 27th December; along and off Somalia coast adjoining sea areas during 24th to 26th December; over south Andaman Sea and adjoining areas on 27th & 28th December.

ii) Weather conditions and forecast over Delhi/NCR during 24th -27th December, 2025 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

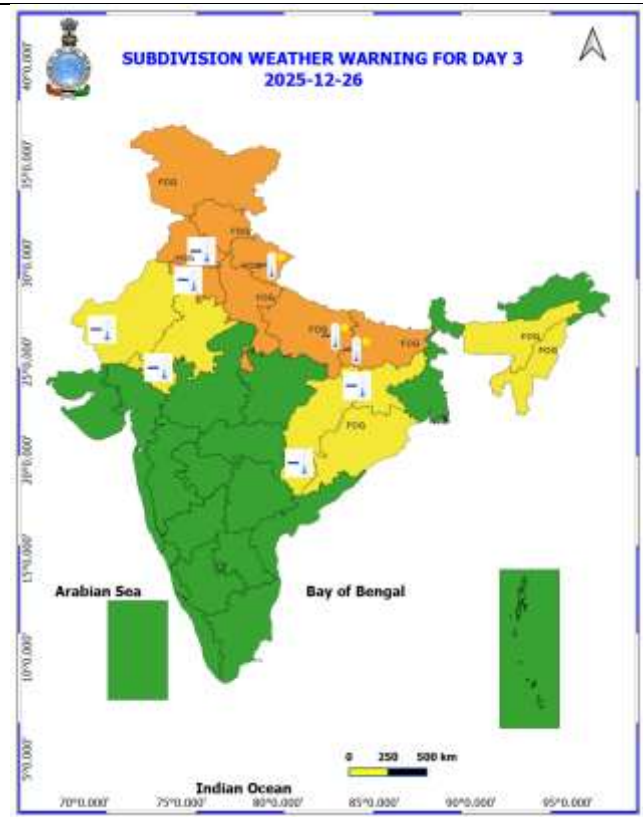
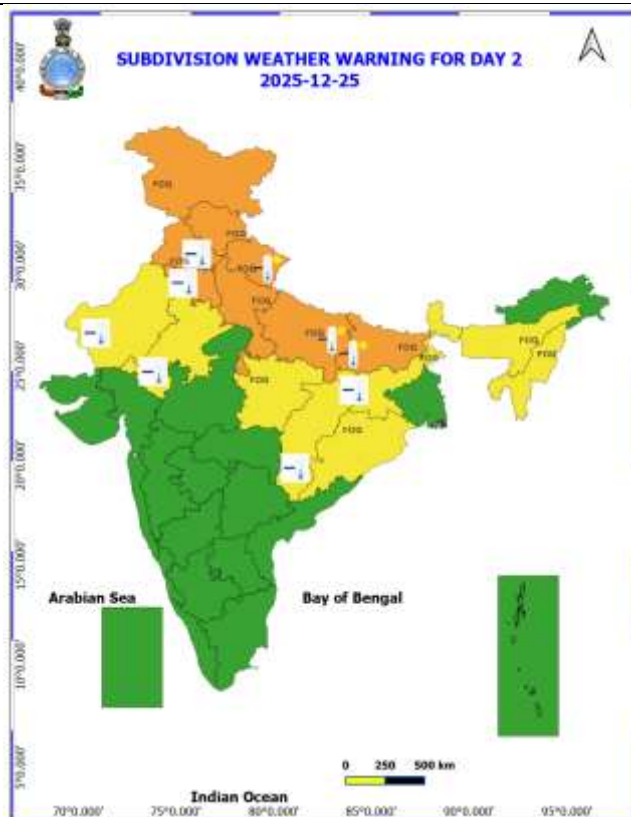
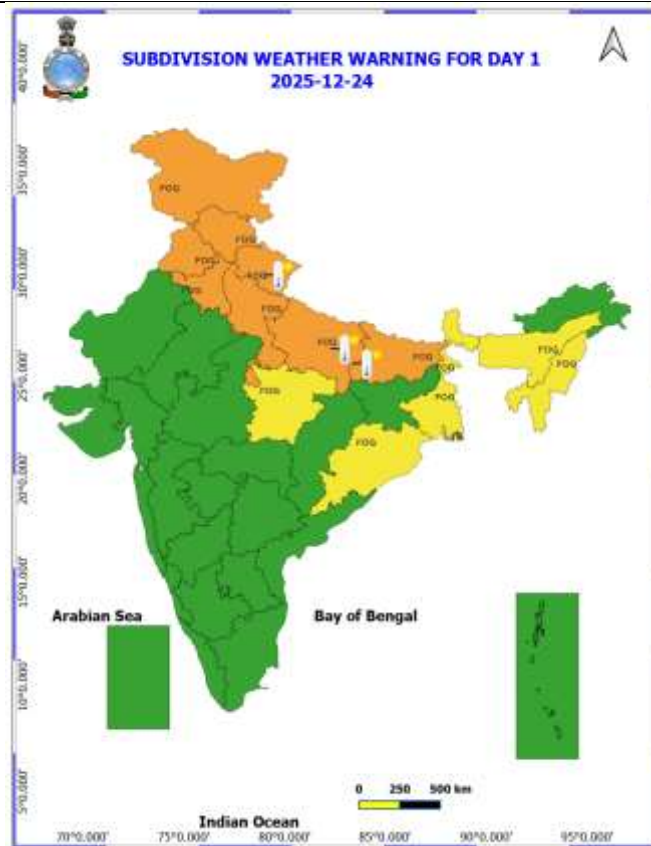
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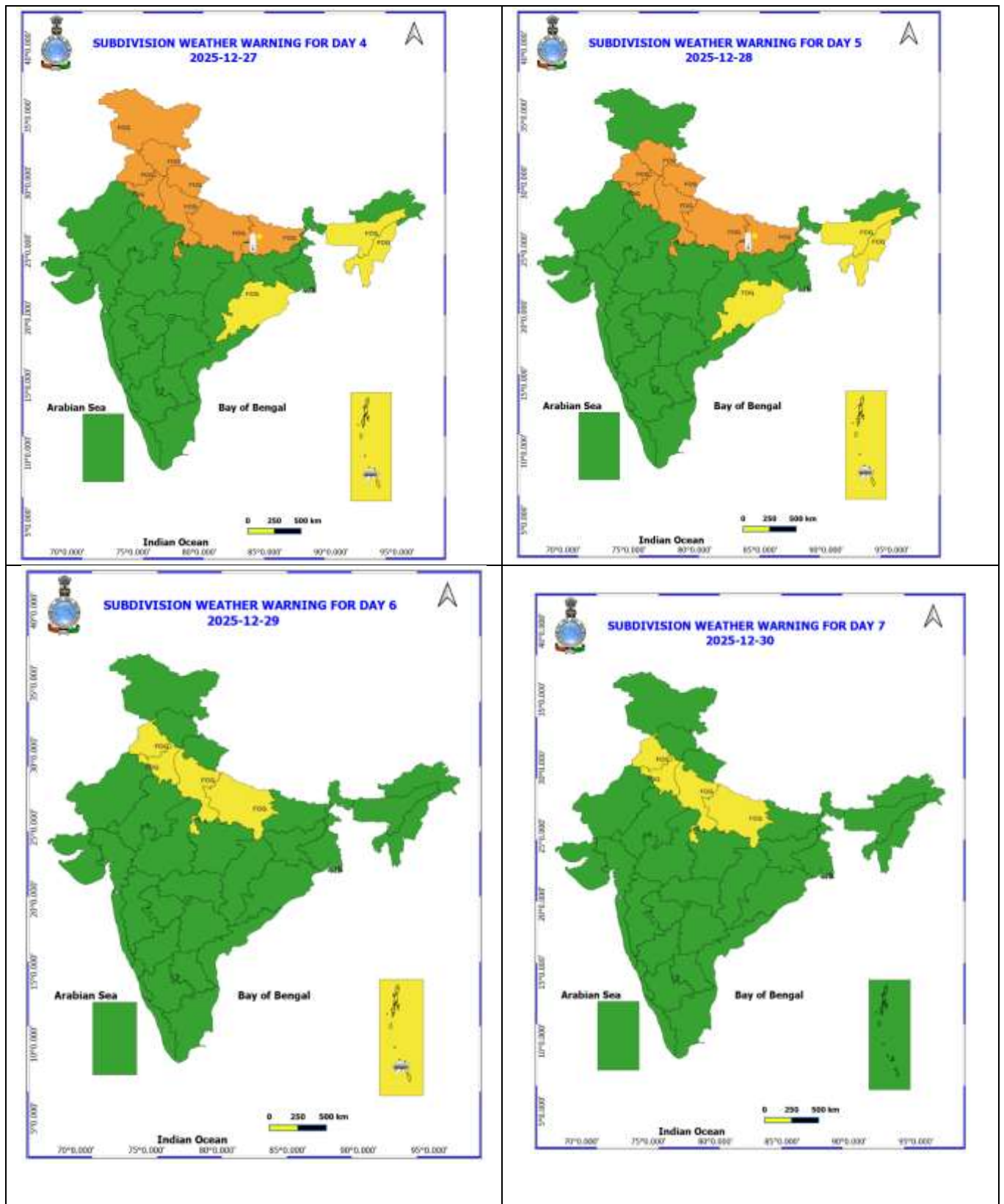
For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

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

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	24- Dec	25- Dec	26- Dec	27- Dec	28- Dec	29- Dec	30- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	ISOL	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	ISOL	ISOL	DRY	DRY	DRY	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	ISOL	ISOL	DRY	DRY	ISOL	ISOL
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	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	DRY	DRY	ISOL	DRY	ISOL
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
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	ISOL	ISOL	ISOL	DRY	DRY	ISOL
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	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
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 MultiHazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 24th December to 27th December 2025**Past Weather:**

There has been no large change in the minimum temperature and a 1-2°C rise in the maximum temperature over the past 24 hours in Delhi. The maximum and minimum temperatures over Delhi were around 20°C to 24°C and 08°C to 10°C, respectively. The minimum temperatures are above normal (1.6°C to 3.0°C) at many places and normal (-1.5°C to 1.5°C) at isolated places over Delhi. The maximum temperatures were above normal (1.6°C to 3.0°C) at many places, appreciably above normal (3.1°C to 5.0°C) at isolated places, and normal (-1.5°C to 1.5°C) at some places over Delhi. Palam reported the lowest visibility of 100m in dense fog from 0230 IST to 0500 IST on 24.12.2025, which thereafter improved to 250m from 0530 IST onwards. Safdarjung reported the lowest visibility of 400m in moderate fog at 0430 IST on 24.12.2025, which thereafter improved to 500m from 0730 IST onwards. Moderate to dense fog was reported at Palam and Safdarjung during the past 24 hours. Mainly clear sky conditions with predominant surface wind from the west direction with a wind speed up to 16 kmph prevailed during the past 24 hours. Mainly clear sky with moderate to dense fog and wind reaching up to 14 kmph from the southwest direction prevailed over the region in the forenoon today.

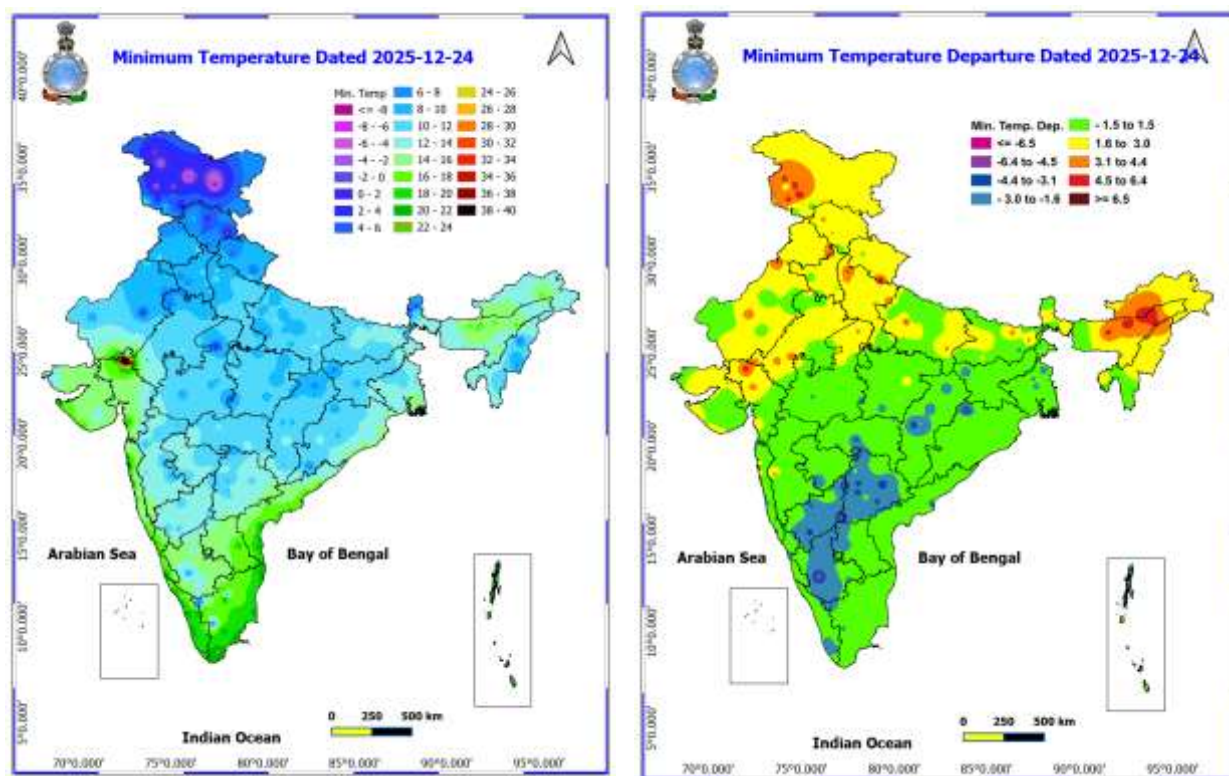
Weather Forecast:

24.12.2025: Mainly clear sky. Surface winds speed 15-25 kmph during the day. Mist/Haze during the night. The maximum temperatures are likely to be in the range of 22 to 24°C. The maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speeds up to 20 kmph during the afternoon hours. The wind speed will decrease, becoming less than 10 kmph from the west direction during the evening and night.

25.12.2025: Mainly clear sky. Shallow to moderate fog at many places during the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 21 °C to 23°C and 5 °C to 7 °C, respectively. The minimum temperatures will be below normal (-1.3°C to -3.5°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 up to 10 kmph during the morning hours. The wind speed will increase, becoming up to 12 kmph from the northwest direction in the afternoon. The wind speed will decrease, becoming less than 05 kmph from the north direction during the evening and night.

26.12.2025: Partly cloudy sky. Shallow to moderate fog at many places with dense fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 19°C to 21°C and 05°C to 07°C respectively. The minimum temperatures will be below normal (-0.5°C to -2.5°C), and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the northeast direction, with wind speeds of up to 5 kmph during the morning hours. The wind speed will remain calm, becoming up to 05 kmph from the northwest direction in the afternoon. The wind speed will be less than 05 kmph from the north direction during the evening and night.

27.12.2025: Partly cloudy sky. Shallow to moderate fog at many places with dense fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 19 °C to 21 °C and 05 °C to 07°C, respectively. The minimum and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the west direction, associated with calm wind speeds, increasing up to 5 kmph during the morning hours. The wind speed will increase, becoming up to 10 kmph from the northwest direction in the afternoon. The wind speed will decrease, becoming less than 05 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 in many parts of East Uttar Pradesh till 28th; in some parts of East Uttar Pradesh during 29th -31st; West Uttar Pradesh till 28th; Punjab till 27th; in isolated pockets of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad till 28th; Himachal Pradesh till 29th; Uttarakhand till 29th; Punjab and Haryana Chandigarh & Delhi during 27th -29th; Uttar Pradesh on 28th & 29th with **Dense fog conditions** during night/morning hours very likely in some pocket of Bihar till 25th and isolated pockets over East Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim till 26th; over Gangetic West Bengal till 25th; over Odisha till 29th; Assam & Meghalaya till 29th; Nagaland, Manipur, Mizoram & Tripura till 27th; Bihar during 25th -29th; West Uttar Pradesh, Punjab and Haryana Chandigarh & Delhi during 29th -31st December.

- ❖ **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, Chhattisgarh, Jharkhand and Rajasthan during 25th -27th December.

- ❖ 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** Cold day to severe cold day conditions very likely in isolated pockets of Uttarakhand during 24th -27th **Cold day conditions** very likely in some parts of East Uttar Pradesh during 24th -26th; isolated pockets of Bihar 24th -28th December.

- ❖ 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.
- ❖ 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 / below normal Temperatures

- In **Punjab, Haryana, North Rajasthan, Jharkhand** and **Chhattisgarh**, 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 for Andaman & Nicobar Islands

- 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

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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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°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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