



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 26th December, 2025

Time of Issue: 1330 hours IST

Subject: (i) Dense to very dense fog conditions very likely to continue during night/morning hours over Uttar Pradesh, Punjab, Haryana till 01st January 2026, Himachal Pradesh, Uttarakhand till 30th, Bihar till 27th, Assam & Meghalaya till 26th, Uttar Pradesh till 29th, Haryana & Chandigarh and Punjab till 30th; with Dense fog conditions during night/morning hours very likely at some pockets over Assam, Meghalaya, Bihar, Odisha till 30th, Arunachal Pradesh till 28th, Sub-Himalayan West Bengal till 27th December.

(ii) Cold day to severe cold day conditions very likely at a few places over East Uttar Pradesh on 26th & 27th; Cold day conditions very likely at isolated pockets over Sub-Himalayan West Bengal on 26th; Bihar during 26th - 30th, Uttarakhand during 26th -28th; West Uttar Pradesh on 26th & 27th; East Uttar Pradesh on 28th December.

(iii) Cold wave conditions likely over parts of in isolated pockets of north Rajasthan on 27th and Jharkhand on 27th & 28th December.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 26th December, 2025:

- ❖ **Dense to very Dense fog (visibility <50 m)** prevailed in some/many parts of Uttar Pradesh; in isolated pockets of Assam & Meghalaya, Punjab, Haryana; **dense fog (visibility 50-199 m):** reported in isolated pockets of Manipur, Sub-Himalayan West Bengal & Sikkim, Odisha, Bihar, Himachal Pradesh, Uttarakhand.
- ❖ **Visibility in meter reported (≤ 200 m): West Uttar Pradesh:** Sarsawa(IAF) & Bareilly(IAF)-00 each, Ams Moradabad-00, Ams Aligarh & Etawah-20 Each, Meerut-25, Aligarh & Bareilly-30 Each, Muzaffarnagar-50; **East Uttar Pradesh:** Ams Kushinagar, Gorakhpur(IAF), Prayagraj(IAF), Varanasi(AP), Kanpur(IAF) & Lucknow(AP)-00 Each, Prayagraj, Fatehpur, Gorakhpur & Kanpur(City)-10 Each, Bahraich & Barabanki-20 Each, Varanasi(Bhu)-40, Azamgarh, Basti, Fursatganj & Ayodhya-50 Each, Sultanpur & Hardoi-60 Each, Fatehgarh-80, Ghazipur-100, Ballia-150; **Assam & Meghalaya:** Tezpur(20), Guwahati(100); Manipur: Imphal(50); **Sub-Himalayan West Bengal:** Jalpaiguri, Coochbehar(100m); **Odisha:** Nayagarh(50m); **Bihar:** Patna, Gaya, Valmiki Nagar (100m); **Himachal Pradesh:** Sundernagar 70 M And Mandi 120 M; **Uttarakhand:** Pantnagar (50m), Khatima(50m); **Punjab:** Adampur, Halwara, Ludhiana, Patiala – 00 each; **Haryana:** Ambala, Karnal-00 each;
- ❖ **Cold day to severe cold day conditions** observed at isolated places over East Uttar Pradesh; **cold day conditions** in isolated pockets of Bihar.
- ❖ **Cold wave conditions** observed at isolated places over Jharkhand.

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

- ❖ The **Western Disturbance** seen as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 64°E to the north of Lat. 32°N persists.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order of 125 knots at 12.6 km above mean sea level prevails over Northeast India.
- ❖ A **fresh Western Disturbance** is likely to affect Western Himalayan Region from 30th 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 on 26th, and during 29th December-01st January and over Himachal Pradesh, Uttarakhand on 26th, 30th & 31st December.

- ❖ **Isolated Thunderstorm and lightning** with gusty wind speed (30-40kmph) likely to prevail over Andaman & Nicobar Islands during 26th -30th 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; at few places over Himachal Pradesh, Uttarakhand; at isolated places over north Chhattisgarh, West Madhya Pradesh, Odisha; in the **range of 5°-10°C** at many places Punjab, Uttar Pradesh, East Madhya Pradesh, ; at a few places over Rajasthan, Bihar, Gangetic West Bengal; at isolated places over Jharkhand, Maharashtra, Interior Karnataka, Tamil Nadu.
- ❖ **Minimum Temperatures departures** were **below normal(-1.6°C to -3.0°C)** at isolated places over East Uttar Pradesh, Madhya Maharashtra , Kerala, Coastal Karnataka, Andaman & Nicobar Islands ; **appreciably below normal(-5.0°C to -3.1°C)** at few places over North Interior Karnataka ; at isolated places over West Madhya Pradesh, East Rajasthan, Chhattisgarh, Jharkhand, Bihar, Gangetic West Bengal, Odisha, Telangana, Konkan & Goa, Vidarbha, Tamil Nadu. **markedly below normal (< -5.0°C)** at isolated places over Odisha, South Interior Karnataka. (refer to ANNEXURE IV)
- ❖ **Minimum Temperatures show rising tendency during past 24 hours by 1-3°C** over at some places over Jammu Division, Himachal Pradesh, Punjab, north Rajasthan, Telangana, north Rajasthan, Andhra Pradesh, Tamil Nadu, Assam & Meghalaya; **falling tendency by 1-3°C** at some places over Uttar Pradesh, Bihar, Madhya Pradesh, Jharkhand, Chhattisgarh. **The lowest minimum temperature of 4.2°C was observed over Rajgarh (West Madhya Pradesh) over the plains of India.**
- ❖ **Night temperature recorded below normal by 2-4°C** over isolated parts of Telangana, South Interior Karnataka, and North Interior Karnataka and it is above normal by 2-3 °C over many parts of Northeast India.
- ❖ **The lowest maximum temperature of 14.6 °C was observed over Patiala (Punjab) over the plains of India.**

Forecast of minimum temperatures:

- ❖ No significant change in minimum temperature very likely over Northwest, Central & East India for next 4-5 days and rise by 2-3°C thereafter for subsequent 3 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 isolated pockets of Assam till 27th; Himachal Pradesh till 31st; with **Dense fog conditions** during night/morning hours very likely in isolated pockets over Arunachal Pradesh till 29th, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha till 31st; Sub-Himalayan West Bengal & Sikkim till 28th, Uttarakhand till 31st December.
- ❖ **Dense to very dense fog** conditions very likely to prevail in night/morning hours in few parts of Bihar till 28th December and **Dense fog** in isolated pockets for subsequent 4 days.
- ❖ **Dense to very dense fog** conditions very likely to prevail in night/morning hours in few parts of Punjab Haryana-Chandigarh till 30th December and in isolated pockets for subsequent 2 days.
- ❖ **Dense to very dense fog** conditions very likely to prevail in night/morning hours in some/many parts of Uttar Pradesh till 01st January 2026.
- ❖ **Cold wave conditions** very likely in isolated pockets of north Rajasthan on 27th, Jharkhand on 27th & 28th December.
- ❖ **Cold day to severe cold day conditions** very likely at a few places over East Uttar Pradesh on 26th & 27th; **Cold day conditions** very likely at isolated pockets over Sub-Himalayan West Bengal on 26th; Bihar during 26th-30th, Uttarakhand during 26th -28th; West Uttar Pradesh on 26th & 27th and East Uttar Pradesh on 28th December.

Fisherman Warning:

Fishermen are advised not to venture into the following areas on 26th December:

- **Bay of Bengal:**

Over Gulf of Mannar & adjoining parts of Comorin area on 26th December.

ii) Weather conditions and forecast over Delhi/NCR during 26th -29th December, 2025 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

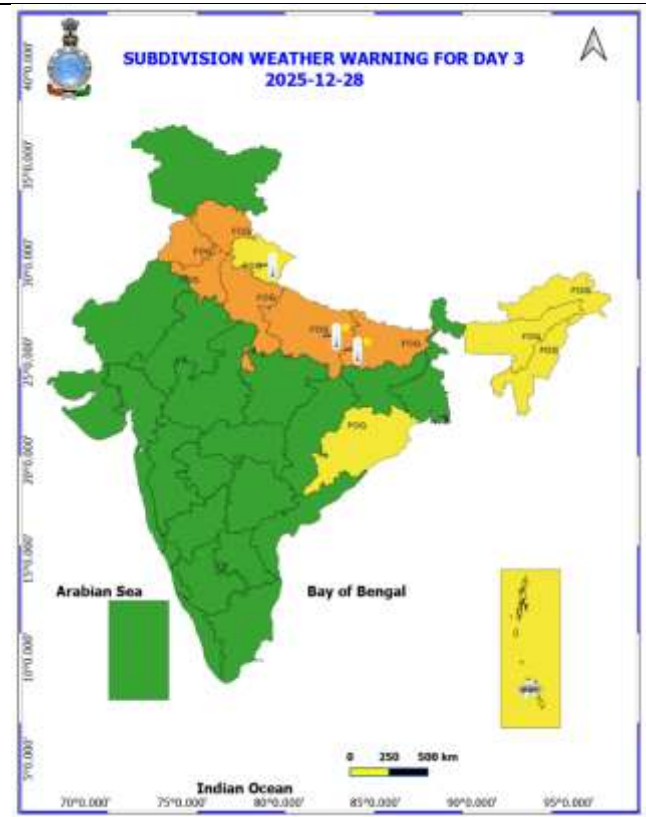
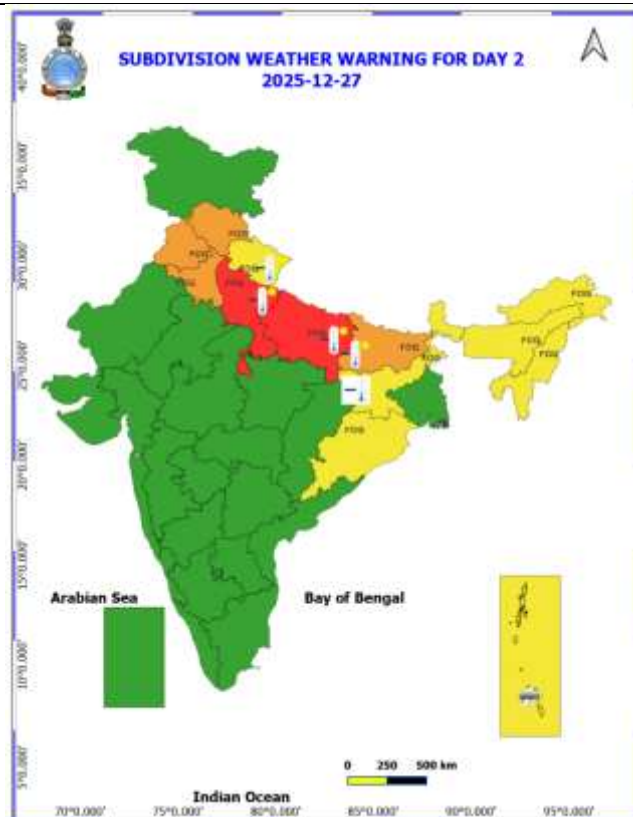
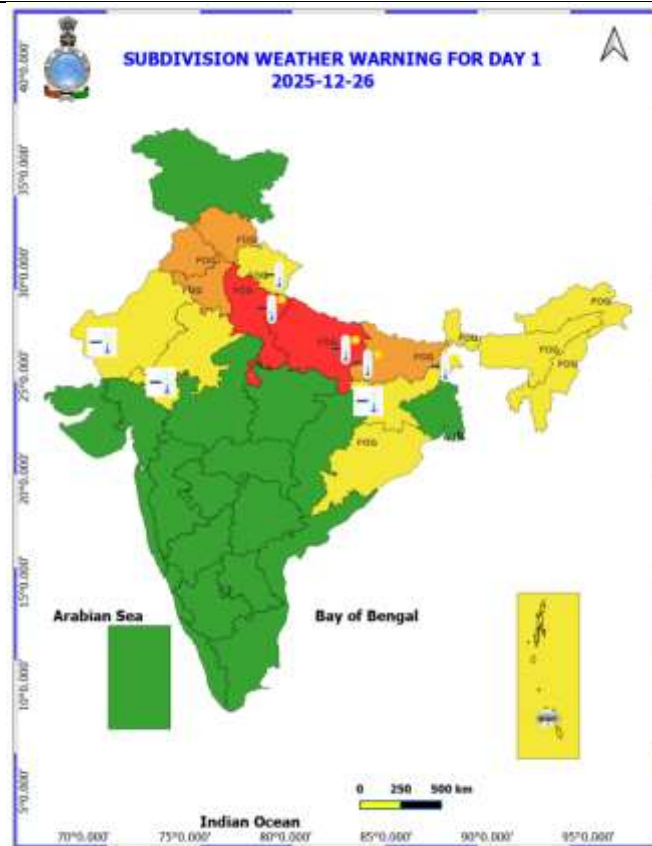
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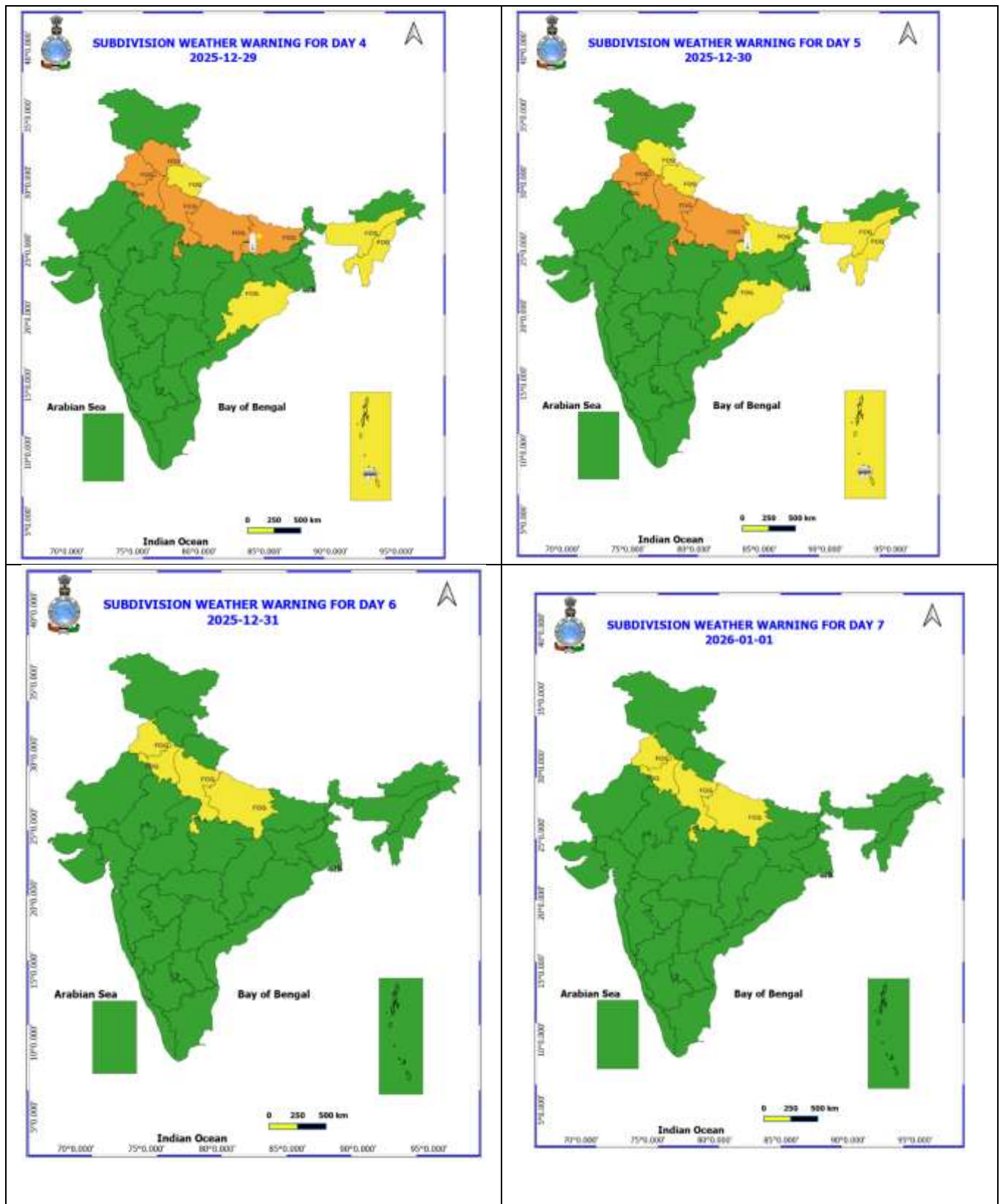
For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

ANNEXURE I

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

- As the lead period increases forecast accuracy decrease.





- Action may be taken based on ORANGE AND REDCOLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Detailed districtwise Multi Hazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 26th December to 29th December 2025**Past Weather:**

There has been a rise in minimum temperatures by about 1°C to 2°C, and no large change in maximum temperatures during the past 24 hours over Delhi. The maximum and minimum temperatures over Delhi were around 20°C to 23°C and 07°C to 09°C, respectively. The minimum temperatures are near normal (-1.5°C to 1.5°C) at most places over Delhi. The maximum temperatures were above normal (1.6°C to 3.0°C) at many places, and appreciably above normal (3.1°C to 5.0°C) at isolated places and normal (-1.5°C to 1.5°C) at isolated places over Delhi. Safdarjung reported the lowest visibility of 800m at 0830 IST on 26.12.2025, which thereafter improved to 1100m from 0930 Hrs IST onwards. Mainly clear sky conditions with predominant surface wind from the west-southwest direction with a wind speed up to 16 kmph prevailed during the past 24 hours. Partly cloudy sky with shallow to moderate fog and wind reaching up to 10 kmph from the west-southwest direction prevailed over the region in the forenoon today.

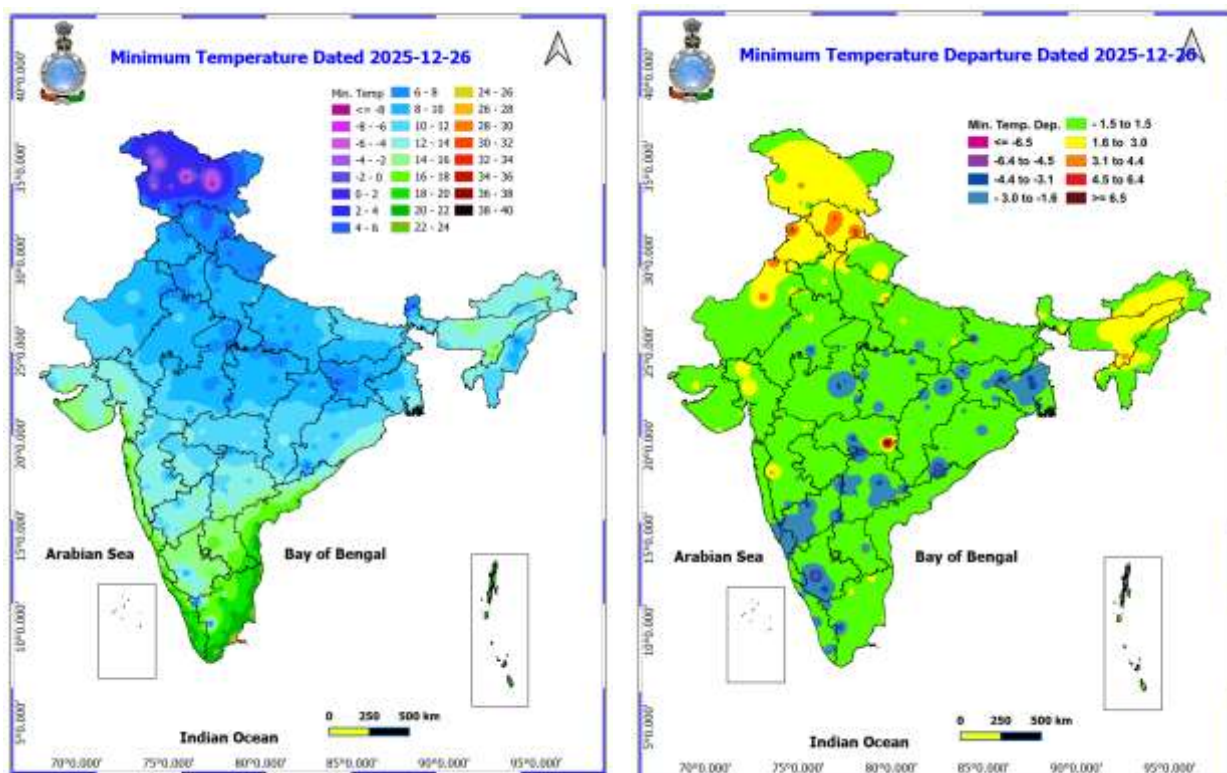
Weather Forecast:

26.12.2025: Partly cloudy sky. Mist/Haze during the night. The maximum temperatures are likely to be in the range of 20°C to 22°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 10 kmph during the afternoon hours. The wind speed will decrease, becoming less than 05 kmph from the northwest direction during the evening and night.

27.12.2025: Partly cloudy sky. Moderate fog at many places with dense fog at isolated places during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 21°C to 23°C and 6°C to 8°C, respectively. The minimum temperatures will be near normal (-0.5°C to -1.5°C), and the maximum temperatures will be above normal (0.5°C to 2.5°C) over Delhi. The predominant surface wind is likely to be from the west direction with wind speeds less than 05 kmph during the morning hours. The wind speed will increase becoming upto 15 kmph from the northwest direction during afternoon hours. The wind speed will decrease, becoming less than 05 kmph from the west direction during the evening and night.

28.12.2025: Mainly clear sky. Moderate fog at many places with dense fog at isolated places during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 21°C to 23°C and 5°C to 7°C, respectively. The minimum temperatures will be near normal (-0.5°C to -1.5°C), and the maximum temperatures will be above normal (0.5°C to 2.5°C) over Delhi. The predominant surface wind is likely to be from the west direction with wind speeds less than 10 kmph during the morning hours. The wind speed will increase becoming upto 15 kmph from the northwest direction during afternoon hours. The wind speed will decrease, becoming less than 10 kmph from the west direction during the evening and night.

29.12.2025: Mainly clear sky. Shallow to moderate fog during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 21°C to 23°C and 6°C to 8°C, respectively. The minimum temperatures will be near normal (-0.5°C to -1.5°C), and the maximum temperatures will be above normal (0.5°C to 2.5°C) over Delhi. The predominant surface wind is likely to be from the west direction with wind speeds less than 10 kmph during the morning hours. The wind speed will gradually increase up to 15 kmph from the northwest direction in the afternoon, and 10 kmph during evening/night.



Impact expected due to dense/very dense fog in the night/morning hours:

- ❖ **Dense to very dense fog conditions** during night/morning hours very likely in isolated pockets of Assam till 27th; Himachal Pradesh till 31st; with **Dense fog conditions** during night/morning hours very likely in isolated pockets over Arunachal Pradesh till 29th, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha till 31st; Sub-Himalayan West Bengal & Sikkim till 28th, Uttarakhand till 31st December.
- ❖ **Dense to very dense fog** conditions very likely to prevail in night/morning hours in few parts of Bihar till 28th December and **Dense fog** in isolated pockets for subsequent 4 days.
- ❖ **Dense to very dense fog** conditions very likely to prevail in night/morning hours in few parts of Punjab Haryana-Chandigarh till 30th December and in isolated pockets for subsequent 2 days.
- ❖ **Dense to very dense fog** conditions very likely to prevail in night/morning hours in some/many parts of Uttar Pradesh till 01st January 2026.

❖ Transport and Aviation:

- May affect some airports, highways and railway routes in the areas of met- sub-division.
- Difficult driving conditions with slower journey times.
- Unless taken precautionary measures, it may lead to some road traffic collisions.

❖ Power Sector:

- Chances of Tripping of Power lines in the very dense fog routes.

❖ Human Health:

- Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
- Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
- Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

❖ Transport and Aviation:

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

❖ Power Sector:

- To keep ready Maintenance Team.

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

Impact expected due to Cold Wave conditions very likely in isolated pockets of north Rajasthan on 27th, Jharkhand on 27th & 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 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 at a few places over East Uttar Pradesh on 26th & 27th; **Cold day conditions** very likely at isolated pockets over Sub-Himalayan West Bengal on 26th; Bihar during 26th-30th, Uttarakhand during 26th -28th; West Uttar Pradesh on 26th & 27th and East Uttar Pradesh on 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:

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

Livestock / Poultry

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

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह

2. अरुणाचल प्रदेश

3. असम और मेघालय

4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल

7. ओडिशा

8. झारखंड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखंड

13. हरियाणा, चंडीगढ़ और दिल्ली

14. पंजाब

15. हिमाचल प्रदेश

16. जम्मू और कश्मीर और लद्दाख

17. पश्चिम राजस्थान

18. पूर्वी राजस्थान

19. पश्चिम मध्य प्रदेश

20. पूर्वी मध्य प्रदेश

21. गुजरात

22. सौराष्ट्र

23. कोंकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुडुचेरी और कराईकल

32. तटीय कर्नाटक

33. आंतरिक उत्तरी कर्नाटक

34. आंतरिक दक्षिणी कर्नाटक

35. केरल और माहे

36. लक्षद्वीप



1. Andaman & Nicobar Islands

2. Arunachal Pradesh

3. Assam & Meghalaya

4. Nagaland, Manipur, Mizoram & Tripura

5. Sub-Himalayan West Bengal & Sikkim

6. Gangetic West Bengal

7. Odisha

8. Jharkhand

9. Bihar

10. East Uttar Pradesh

11. West Uttar Pradesh

12. Uttarakhand

13. Haryana, Chandigarh & Delhi

14. Punjab

15. Himachal Pradesh

16. Jammu & Kashmir and Ladakh

17. West Rajasthan

18. East Rajasthan

19. West Madhya Pradesh

20. East Madhya Pradesh

21. Gujarat

22. Saurashtra

23. Konkan & Goa

24. Madhya Maharashtra

25. Marathwada

26. Vidarbha

27. Chhattisgarh

28. Coastal Andhra Pradesh & Yanam

29. Telangana

30. Rayalaseema

31. Tamilnadu, Puducherry & Karaikal

32. Coastal Karnataka

33. North Interior Karnataka

34. South Interior Karnataka

35. Kerala & Mahe

36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)



Fog



Heavy Snow



Cold Wave



Heavy Rain



Dust Storm



Cold Day



Very Heavy Rain



Heat Wave



Ground Frost



Extremely Heavy Rain



Warm Night



Thunder & Lightning



Hot Day



Hailstorm



Hot & Humid



Dust Raising Winds



Strong Surface Winds

COLOUR CODED WARNING

No Warning (No Action)

Watch (Be Aware)

Alert (Be Prepared To Take Action)

Warning (Take Action)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

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(Service to the Nation since 1875)

DEFINITION/CRITERIA

Rain/ Snow *

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm *
Extremely Heavy: > 204.4 mm/cm *

Heat Wave

When maximum temperature of a station reaches $\geq 40^\circ \text{C}$ for plains and $\geq 30^\circ \text{C}$ for hilly regions

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .

Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^\circ \text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^\circ \text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^\circ \text{C}$.

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^\circ \text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ \text{C}$.

Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

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

Cold Wave

When minimum temperature of a station $\leq 10^\circ \text{C}$ for plains and $\leq 0^\circ \text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^\circ \text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave: When Minimum Temperature is $\leq 4.0^\circ \text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^\circ \text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^\circ \text{C}$ & actual Minimum Temperature is $\leq 15^\circ \text{C}$

Cold Day

When minimum temperature of a station $\leq 10^\circ \text{C}$ for plains and $\leq 0^\circ \text{C}$ for hilly regions

Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^\circ \text{C}$

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1 \text{ km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres

Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)

Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.

Frost

Ice deposits on ground

Air temperature $\leq 4^\circ \text{C}$ (over Plains)

Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-67 kmph

Very Severe: Wind speed > 67 kmph

Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre

Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

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