



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 20th December, 2025

Time of Issue: 1330 hours IST

Subject: (i) Dense to very dense fog conditions during night/morning hours very likely in some parts of Uttarakhand, Uttar Pradesh, Haryana till morning hours of 21st; in isolated pockets of Punjab, Haryana during 25th-27th; West Uttar Pradesh on 26th & 27th; East Uttar Pradesh on 22nd, 26th & 27th; Jharkhand on 21st & 22nd and Madhya Pradesh till morning hours of 21st December.

(ii) Cold Day to severe cold day conditions very likely to prevail in isolated pockets of Uttarakhand, Uttar Pradesh on 20th December.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 20th December, 2025:

- ❖ **Dense to very Dense fog (visibility <50 m)** prevailed in many parts of Uttar Pradesh; in some parts of Punjab and Haryana; in isolated pockets of Uttarakhand and Madhya Pradesh; **dense fog (visibility 50-199 m):** reported in isolated pockets of Meghalaya, Odisha, Jharkhand, Himachal Pradesh and Chhattisgarh.
- ❖ **Visibility reported (≤ 200 m):** **Meghalaya:** Barapani (150); **West Uttar Pradesh:** Hindon IAF & Agra IAF(0) each, Agra Taj (15), Bareilly (40), Meerut (50), Aligarh(AP) & Aligarh(100) each, Hamirpur (180); **East Uttar Pradesh:** Prayagraj IAF & Kanpur IAF (0) each, Fatehgarh & Bahraich (20) each, Kanpur City (40), Shrawasti(AP) (50), Banda (90), Fursatganj(100); **Uttarakhand:** Haridwar(30), Khatima(50); **Punjab:** Amritsar(0), Patiala(40), Ludhiana (50), Ballowal Saunkri (100); **Haryana:** Ambala (0); **Himachal Pradesh:** Bilaspur (50); **West Madhya Pradesh:** Gwalior(0); **East Madhya Pradesh:** Khajuraho (0); **Odisha:** Rourkela (50); **Jharkhand:** Ranchi (50); **Chhattisgarh:** Ambikapur (50).
- ❖ **Cold day to severe cold day conditions** observed in some parts of East Uttar Pradesh and in isolated pockets of West Uttar Pradesh; **cold day conditions** in isolated pockets of Uttarakhand.
- ❖ **Cold wave to severe cold wave conditions** observed in some parts of North Interior Karnataka and **cold wave conditions** in isolated pockets of Telangana.

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

- ❖ A **Western Disturbance** as a cyclonic circulation lies over Central Iran in lower & middle tropospheric level.
- ❖ A **cyclonic circulation** lies over Gulf of Mannar & neighbourhood in lower tropospheric level.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order upto 105 knots at 12.6 km above mean sea level continues to prevail over North India.

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

- ❖ Scattered to fairly widespread light/moderate rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and isolated to scattered rainfall/snowfall over Himachal Pradesh & Uttarakhand during next 3 days.
- ❖ **Heavy rainfall/snowfall also** likely at isolated places over Kashmir valley on 21st 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 isolated places over Himachal Pradesh; in the **range of 5°-10°C** at most places over Madhya Pradesh; at many places over Maharashtra, at few places over Uttarakhand, Uttar Pradesh, Punjab, Rajasthan, Haryana, Chhattisgarh, Karnataka, Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana; at isolated places over Jharkhand, Odisha, Sub-Himalayan West Bengal & Sikkim, Assam, Kerala and Tamil Nadu. **The lowest minimum temperature of 4.3 was observed over Umariya (East Madhya Pradesh) over the plains of India.**
- ❖ **Minimum Temperatures departures** were **markedly below normal (<-5.0°C)** at many places over North Interior Karnataka; at a few places over South Interior Karnataka; **appreciably below normal (-5.0°C to -3.1°C)** at a few places over Kerala, Telangana; at isolated places over West Madhya Pradesh, Konkan & Goa, Madhya

Maharashtra, Coastal Karnataka, Chhattisgarh and **below normal (-1.6°C to -3.0°C)** at many places over Lakshadweep; at a few places over Rayalaseema, Vidarbha, Tamil Nadu; at isolated places over Delhi, East Madhya Pradesh, Assam, Coastal Andhra Pradesh & Yanam. **(refer to ANNEXURE IV)**

- ❖ **Minimum Temperatures show rising tendency during past 24 hours by 1-2 °C** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, West Madhya Pradesh; **falling tendency by 2-3°C** over some parts of East Madhya Pradesh; at isolated places over Gangetic West Bengal and **by 1-2°C** at isolated places over Interior Karnataka, Telangana, Tamil Nadu.

Forecast of minimum temperatures:

- ❖ Gradual rise in minimum temperatures by 2-3 °C over Northwest India for next 3 days and thereafter fall by 2-4°C during subsequent 4 days.
- ❖ No significant change in minimum temperature very likely over East India for next 4 days and thereafter gradual fall in minimum temperature by 2-3°C for subsequent 3 days.
- ❖ No significant change in minimum temperatures over Gujarat Region during next 2 days and gradual fall by 2-3°C during subsequent 3 days and thereafter no significant change in minimum temperatures.
- ❖ No significant change in minimum temperature over Maharashtra, Central and Northeast India during next 7 days.

Dense Fog & Cold wave Warnings:

- ❖ **Dense to very dense fog conditions** during night/morning hours very likely in some parts of Uttarakhand, Uttar Pradesh, Haryana till morning hours of 21st; in isolated pockets of Punjab, Haryana during 25th-27th; West Uttar Pradesh on 26th & 27th; East Uttar Pradesh on 22nd, 26th & 27th; Jharkhand on 21st & 22nd and Madhya Pradesh till morning hours of 21st December.
- ❖ **Dense fog conditions** during night/morning hours very likely in some parts of Uttarakhand on 22nd; in isolated pockets of northeast India till morning hours of 25th; West Bengal & Sikkim on 21st; Jharkhand on 23rd; Bihar during 21st - 23rd; Odisha on 21st & 22nd; Himachal Pradesh on 21st & during 23rd -25th; Uttarakhand on 24th & 25th; Punjab on 21st & 24th; Haryana on 22nd & 24th; West Uttar Pradesh on 22nd & 25th and East Uttar Pradesh on 23rd & 25th; northeast Rajasthan on 21st; Madhya Pradesh on 22nd; and Chhattisgarh on 21st & 22nd December.
- ❖ **Cold wave conditions** very likely in isolated pockets of Madhya Maharashtra, South Interior Karnataka on 21st & 22nd; North Interior Karnataka on 23rd; Telangana during 21st -23rd December.
- ❖ **Cold wave to Severe cold wave conditions** very likely in isolated pockets of North Interior Karnataka on 21st & 22nd December.
- ❖ **Cold day to severe cold day conditions** very likely in isolated pockets of Uttarakhand and Uttar Pradesh on 20th December.
- ❖ **Cold day conditions** very likely in isolated pockets of Bihar on 20th & 21st; Uttarakhand and East Uttar Pradesh on 21st December.

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 20th December to 25th December:

➤ **Bay of Bengal:**

Over Gulf of Mannar and adjoining Comorin area during 20th to 23rd December; along and off south Oman & adjoining Yemen coasts, adjoining and some parts of westcentral Arabian Sea, along and off Somalia coast, adjoining sea areas, on 20th and 21st December.

ii) Weather conditions and forecast over Delhi/NCR during 20th -23rd December, 2025 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

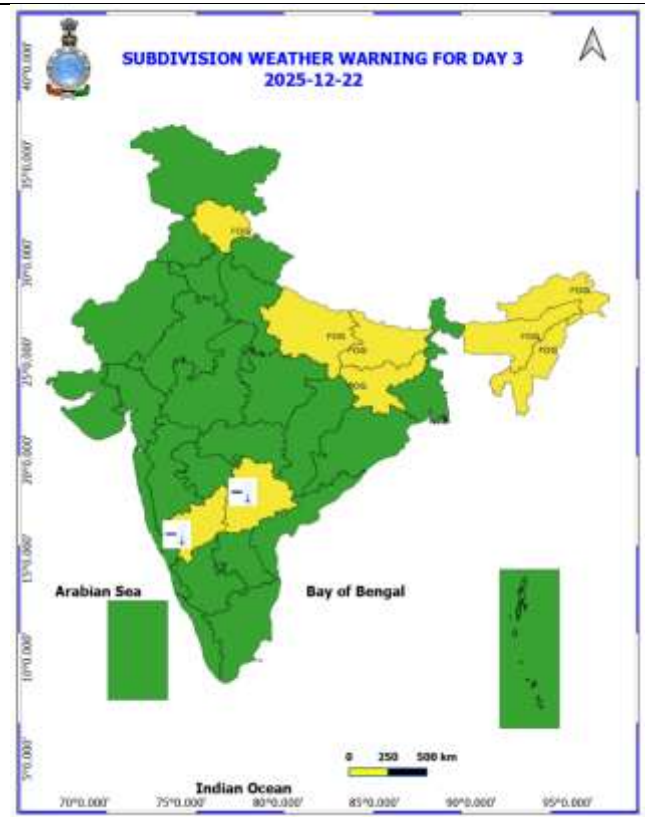
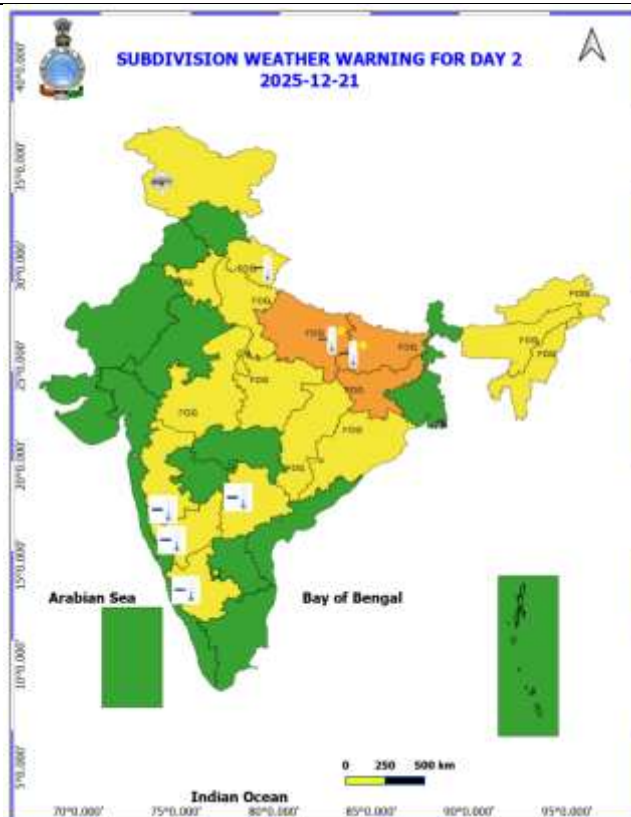
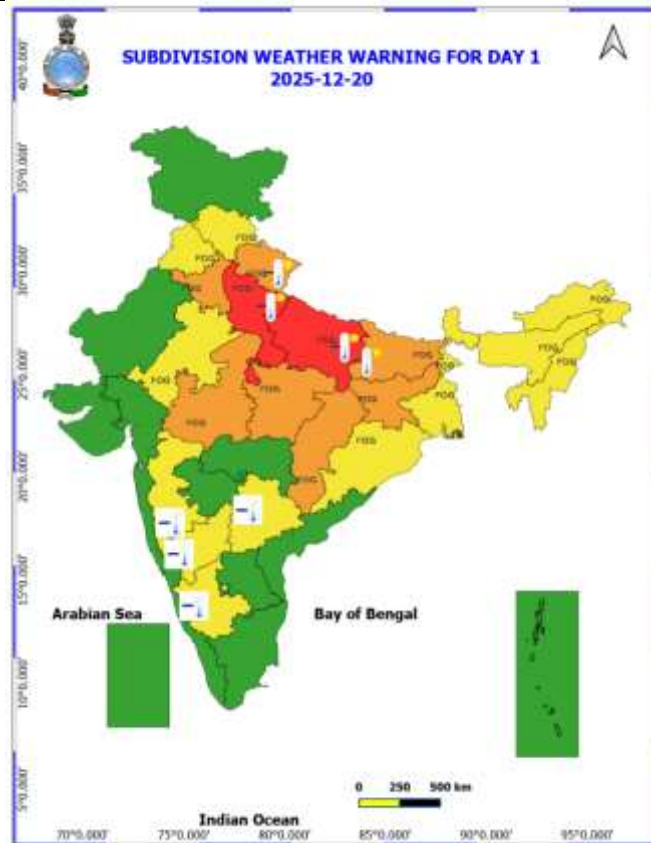
https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

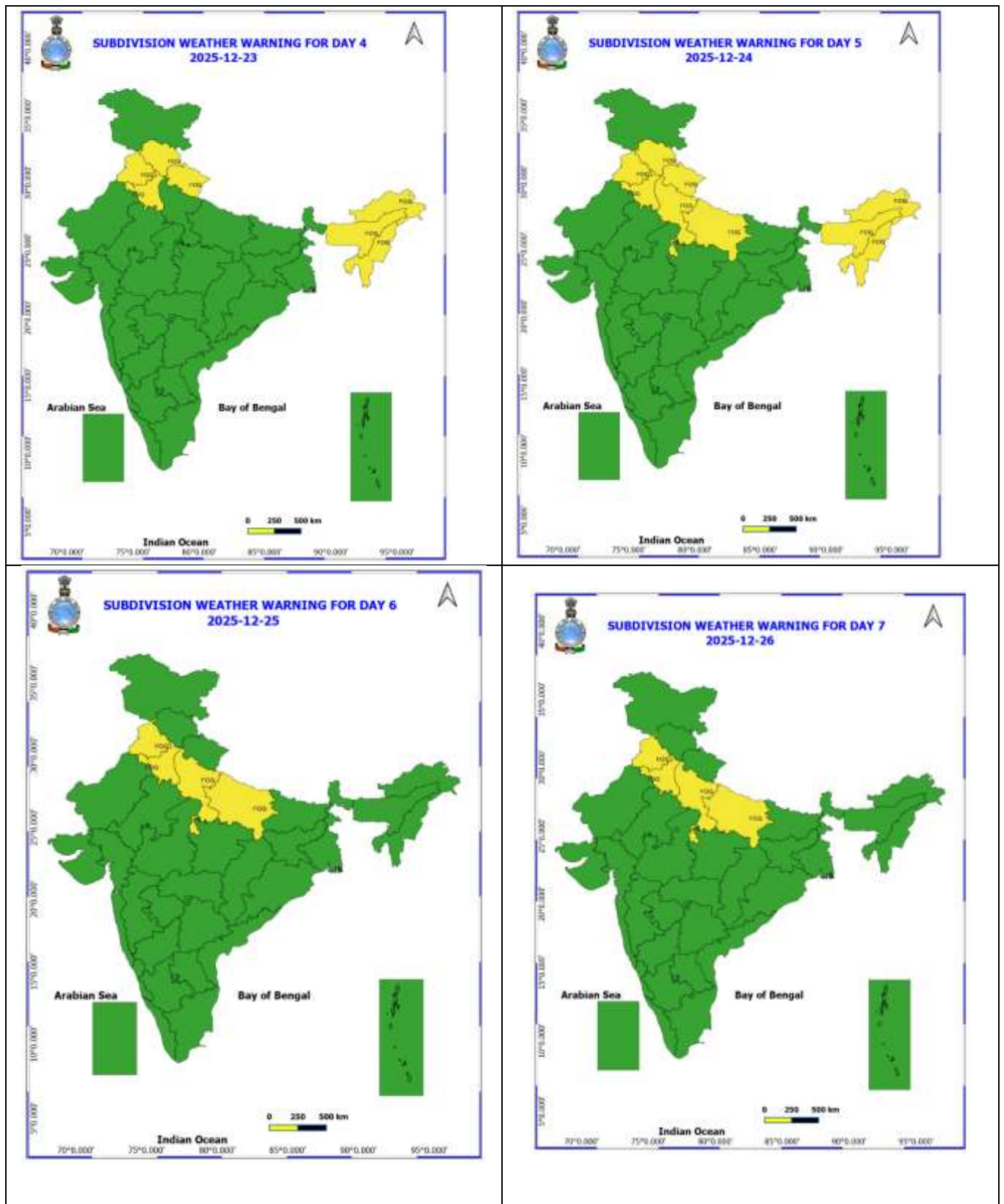
For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

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

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	20- Dec	21- Dec	22- Dec	23- Dec	24- Dec	25- Dec	26- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	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	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
13	HARYANA, CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	SCT	DRY	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	FWS	W	FWS	ISOL	DRY	DRY	DRY
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	DRY	DRY	DRY	DRY	DRY	ISOL	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	DRY	DRY
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 20th December to 23rd December 2025**Past Weather:**

There has been a fall in minimum temperatures by 1-3°C and a rise in maximum temperatures by 2-4°C at many places during past 24 hours over Delhi. The maximum and minimum temperatures in Delhi were around 18 to 22°C and 6 to 8 °C, respectively. The minimum temperatures below normal (-1 to 3°C) over Delhi. The maximum temperatures were normal (-1.5 to 1.5°C) at most places and were appreciably below normal (-3.1 to -5.0°C) at isolated places over Delhi. Palam Airport recorded the lowest visibility of 350m from 0400 Hrs IST to 0530 Hrs IST on 20.12.2025, which thereafter improved to 500m at 0600 Hrs IST. Safdarjung airport recorded the lowest visibility of 200m from 0830 Hrs IST to 1030 Hrs IST on 19.12.2025, which thereafter improved, becoming 300m at 1130 Hrs IST. Partly cloudy sky conditions with predominant surface wind from southwest direction, with a wind speed up to 13 kmph, prevailed during the past 24 hours. Partly cloudy sky conditions with wind from the east direction with a wind speed of up to 12 kmph prevailed over the region in the forenoon today.

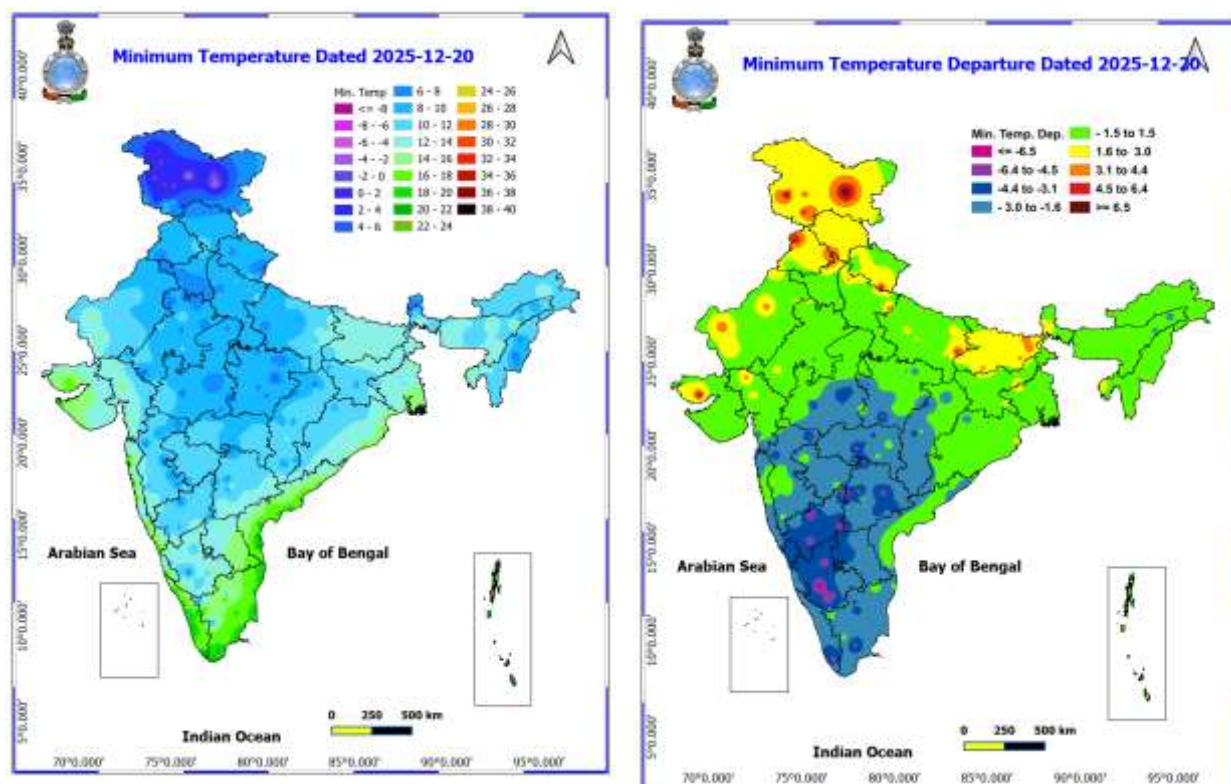
Weather Forecast:

20.12.2025: Partly cloudy sky. Shallow to moderate fog during the night/early hours. Cold day conditions at few places over Delhi. The maximum temperatures are likely to be in the range of 16 to 18°C. The maximum temperatures will be appreciably normal (-4.0 to -6.0°C) over Delhi. The predominant surface wind is likely to be from the east-southeast direction with wind speeds up to 10 kmph during the afternoon hours. The wind speed will remain the same up to 10 kmph from the west-northwest direction during the evening and night.

21.12.2025: Partly cloudy sky. Dense fog at many places with very dense fog at few places, during the morning hours. Shallow to moderate fog during the night. The maximum and minimum temperatures over Delhi are likely to be in the range of 20 to 22°C and 07 to 09°C respectively. The minimum temperatures will be near normal, and 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 05 kmph during the morning hours. The wind speed will increase up to 10 kmph from the northwest direction in the afternoon and continuing to prevail till evening/night.

22.12.2025: Partly cloudy sky. Moderate fog at many places, with dense fog at few places, during the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 21 to 23°C and 9 to 11 °C, respectively. The minimum temperatures will be above normal (1.5 to 3.5°C), and the maximum temperatures will be above normal (2.3 to 4.3°C) over Delhi. The predominant surface wind is likely to be from the south-southeast direction associated with wind speeds up to 05 kmph during the morning hours. The wind speed will increase, becoming up to 08 kmph from the northwest in the afternoon and continuing to prevail till evening/night.

23.12.2025: Partly cloudy sky. Shallow fog at many places, with moderate fog at isolated places, during the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 23 °C to 25 °C and 9 °C to 11 °C, respectively. The minimum temperatures will be above normal (1.5 to 3.5°C), and the maximum temperatures will be above normal (2.3 to 4.3°C) over Delhi. The predominant surface wind is likely to be from the west-southwest direction associated with wind speeds up to 05 kmph during the morning hours. The wind speed will increase, becoming up to 15 kmph from the northwest in the afternoon and continuing to prevail till evening.



Impact expected due to Cold Wave conditions very likely over **Cold wave to Severe cold wave conditions** very likely in isolated pockets of North Interior Karnataka on 21st & 22nd December and **Cold wave conditions** very likely in isolated pockets of Madhya Maharashtra, South Interior Karnataka on 21st & 22nd; North Interior Karnataka on 23rd; Telangana during 21st -23rd 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 dense/very dense fog in the night/morning hours: very likely in some parts of Uttarakhand, Uttar Pradesh, Haryana till morning hours of 21st; in isolated pockets of Punjab, Haryana during 25th-27th; West Uttar Pradesh on 26th & 27th; East Uttar Pradesh on 22nd, 26th & 27th; Jharkhand on 21st & 22nd and Madhya Pradesh till morning hours of 21st 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 Day conditions: **Cold day to severe cold day conditions** very likely in isolated pockets of Uttarakhand and Uttar Pradesh on 20th December and **Cold day conditions** very likely in isolated pockets of Bihar on 20th & 21st; Uttarakhand and East Uttar Pradesh on 21st 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.

Agromet advisories for likely impact of Cold Waves / Low Temperatures

- In **North Madhya Maharashtra, Interior Karnataka** and **Telangana**, 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.

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

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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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