



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 19th December, 2025

Time of Issue: 1330 hours IST

Subject: (i) Dense to very dense fog conditions during night/morning hours very likely to continue over Punjab till morning hours of 20th; Uttarakhand, Haryana, Chandigarh, West Uttar Pradesh, north Madhya Pradesh & Bihar till morning hours of 21st; East Uttar Pradesh till morning hours of 22nd and at isolated places over Punjab, Haryana & Chandigarh, Uttar Pradesh on 24th & 25th December

(ii) Cold Day at isolated pockets very likely to prevail over Uttar Pradesh and Bihar on 19th December.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 19th December, 2025:

- ❖ **Dense to very Dense fog (visibility <50 m)** prevailed at few places Odisha, Uttar Pradesh and Madhya Pradesh; **dense fog (visibility 50-199 m):** reported in isolated pockets of Assam & Meghalaya, Manipur, Tripura, Jharkhand, Bihar, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi.
- ❖ **Visibility reported (≤ 200 m): Assam & Meghalaya:** Jorhat 100m, Barapani (150); **Tripura:** Agartala (50); **Manipur:** Imphal (100); **Odisha:** Rourkela(25); **Jharkhand:** Daltanganj (150); **Bihar:** Gaya(100); **Himachal Pradesh:** Bilaspur-50m; **Punjab:** Amritsar(0) Patiala(10) Gurdaspur (0); **Haryana And Chandigarh:** Hisar (30) Ambala (50m) Chandigarh (100m); **West Uttar Pradesh:** Agra(IAF) & Bareilly(IAF)-0, Aligarh-(30) Bareilly-(40), Aligarh(Ap), Agra (Taj) & Meerut-(50); **East Uttar Pradesh:** Gorakhpur(IAF), ASM Kushinagar-(0), Bahraich-(20), Fatehgarh, Gorakhpur-(30), Shrawasti(A/P), Ayodhya, Fursatganj, Ballia, Lakimpur Kheri, Lucknow-(50) Each, Kanpur(City)-(60), Prayagraj, Varanasi(A/P)-(100), Ayodhya(A/P)-(150); **West Madhya Pradesh:** Gwalior(0); **East Madhya Pradesh:** Rewa(50), Jabalpur (50) each.
- ❖ **Cold day conditions** observed at isolated places over West Uttar Pradesh.
- ❖ **Cold wave conditions** observed at isolated places over West Madhya Pradesh.

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

- ❖ A **Western Disturbance** as a cyclonic circulation lies over Jammu & neighbourhood in lower tropospheric level.
- ❖ Another **Western Disturbance** as a cyclonic circulation lies over Southwest Iran & neighbourhood extending upto middle tropospheric level.
- ❖ A **cyclonic circulation** lies over southeast Arabian sea & adjoining south Kerala coast in lower tropospheric level.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order upto 100 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:

- ❖ Isolated rainfall/snowfall very likely over Western Himalayan region for next 5 days with **Heavy rainfall/snowfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 21st December and isolated rainfall over Punjab during 20th-22nd 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 isolated places over Himachal Pradesh, West Madhya Pradesh; in the **range of 5°-10°C** at most places over Uttarakhand, at many places over Haryana Chandigarh & Delhi, at few places over Uttar Pradesh, Punjab, Rajasthan, Odisha, Chhattisgarh, Madhya Maharashtra; over isolated places over East Madhya Pradesh, Marathwada, Meghalaya. **The lowest minimum temperature of 4.0 was observed over Shivpuri (East Madhya Pradesh) over the plains of India.**

- ❖ **Minimum Temperatures departures** were **appreciably below normal (-5.0°C to -3.1°C)** at isolated places over West Madhya Pradesh, Madhya Maharashtra, Chhattisgarh, Odisha, Telangana and Kerala & Mahe and **below normal (-1.6°C to -3.0°C)** at isolated places over East Rajasthan, Assam & Meghalaya, Konkan & Goa, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. ([refer to ANNEXURE IV](#))
- ❖ **Minimum Temperatures show rising tendency during past 24 hours by 1-2 °C** at a few places over Rajasthan, West Uttar Pradesh; **falling tendency by 1-2°C** over some parts of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Madhya Maharashtra and Kerala & Mahe at isolated places over Chhattisgarh, Saurashtra & Kutch, Telangana.

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 5 days and thereafter gradual fall in minimum temperature by 2°C for subsequent 2 days.
- ❖ No significant change minimum temperatures over Gujarat Region during next 2 days and gradual fall by 2-3°C thereafter during subsequent 5 days.
- ❖ 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 at many places over Punjab till morning hours of 20th; over Uttarakhand, Haryana, Chandigarh, West Uttar Pradesh, north Madhya Pradesh & Bihar till morning hours of 21st; over East Uttar Pradesh till morning hours of 22nd and at isolated places over Punjab, Haryana & Chandigarh, Uttar Pradesh on 24th & 25th December.
- ❖ **Dense fog conditions** during night/morning hours very likely at isolated pockets of northeast India till morning hours of 24th; over Himachal Pradesh, Chhattisgarh, Jharkhand & north Odisha till morning hours of 21st; over Haryana, Chandigarh, West Uttar Pradesh on 21st & 23rd; over Bihar on 21st & 22nd; over Uttarakhand & Punjab on 23rd; over East Uttar Pradesh on 22nd & 23rd; over East Rajasthan till morning hours on 20th, 22nd & 23rd and over West Rajasthan on 22nd and 23rd December.
- ❖ **Cold wave conditions** very likely over isolated places over Telangana and South Interior Karnataka on 20th & 21st and over West Madhya Pradesh on 20th December.
- ❖ **Cold wave to Severe cold wave conditions** very likely over isolated places over North Interior Karnataka on 20th & 21st December.
- ❖ **Cold day conditions** very likely over isolated places over Bihar and Uttar Pradesh on 19th December.

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 19th December to 24th December:

➤ **Bay of Bengal:**

Over Gulf of Mannar and adjoining Comorin area during 19th to 21st December; along and off south Somalia coast, adjoining westcentral Arabian Sea, along and off Somalia coast, adjoining sea areas, over Gulf of Mannar & adjoining Comorin area on 20th and 21st December.

ii) Weather conditions and forecast over Delhi/NCR during 19th –22nd December, 2025 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

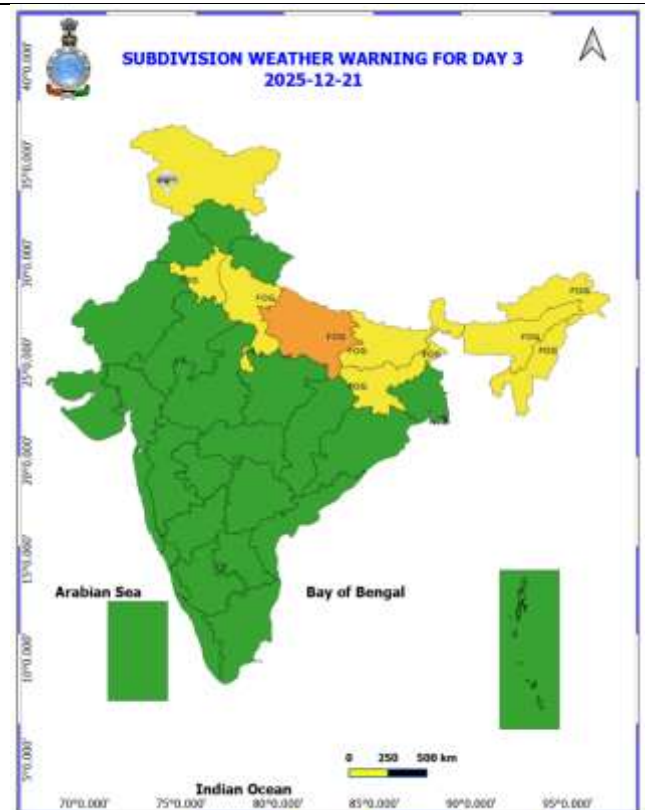
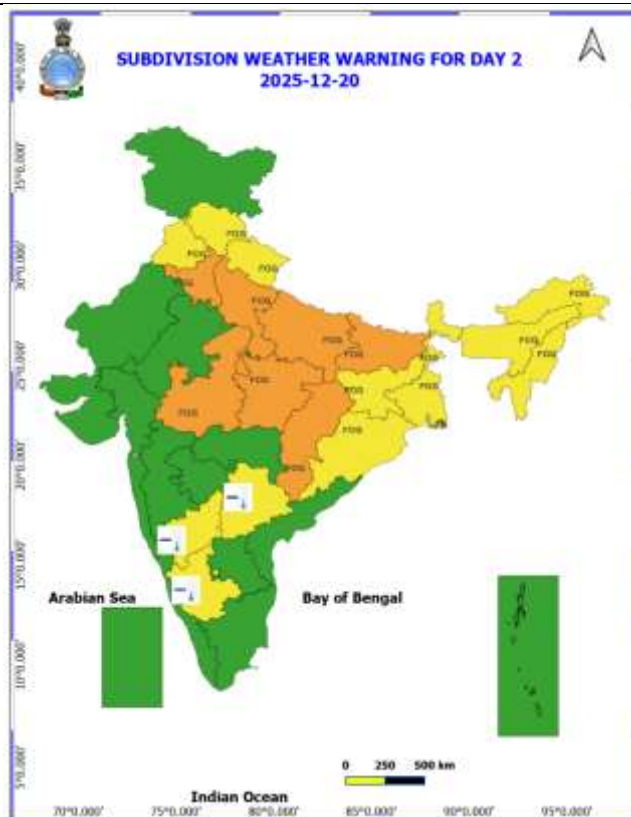
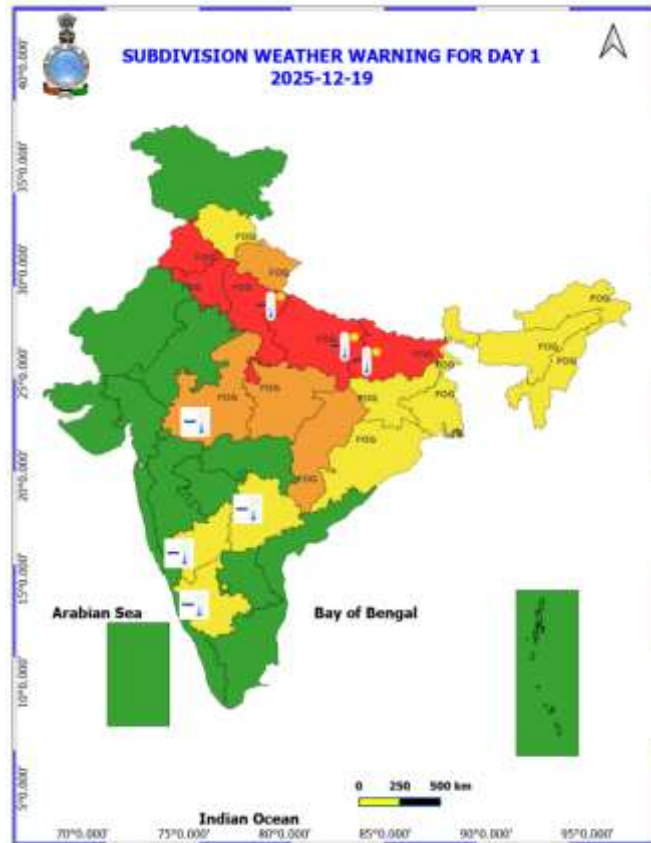
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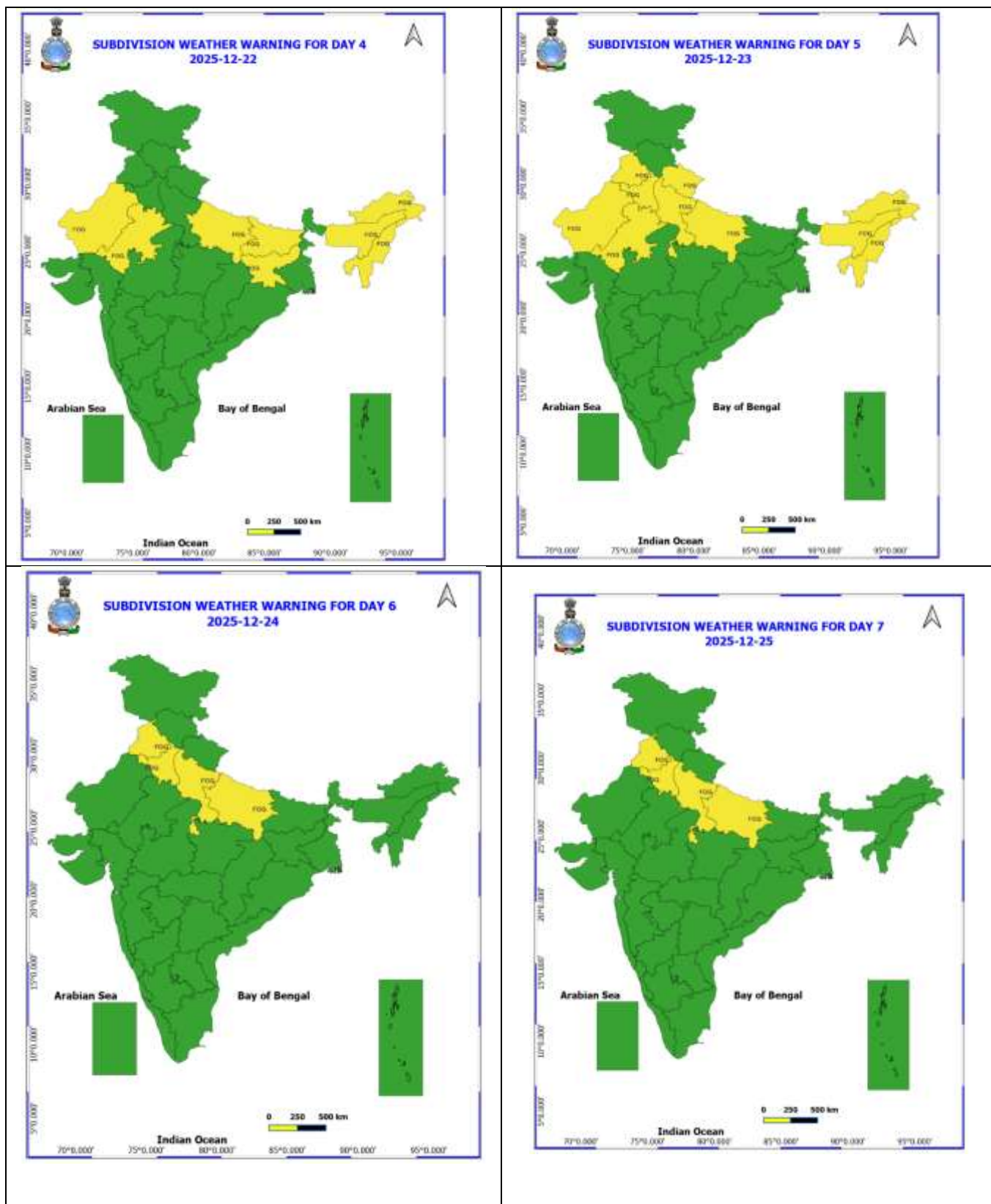
For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

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

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	19- Dec	20- Dec	21- Dec	22- Dec	23- Dec	24- Dec	25- 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	DRY
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	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
13	HARYANA, CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	SCT	SCT	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	ISOL	FWS	Wb	SCT	ISOL	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	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	ISOL	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 Multi Hazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 19th December to 22nd December 2025**Past Weather:**

There has been no significant change in minimum temperatures. The maximum temperatures in Delhi fell by 4-6°C over the past 24 hours. The maximum and minimum temperatures in Delhi were around 18 to 20°C and 8 to 9 °C, respectively. The minimum temperatures are normal (-1.5 to 1.5°C) at many places and above normal (1.6 to 3.0°C) at a few places 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. Safdarjung Airport recorded the lowest visibility of zero meters from 0530 Hrs IST to 0730 Hrs IST on 19.12.2025, which thereafter improved to 100m at 0800 Hrs IST. Palam airport recorded the lowest visibility of 50m from 0530 Hrs IST to 0830 Hrs IST on 19.12.2025, which thereafter improved, becoming 100m at 0830 Hrs IST. Mainly clear sky conditions with predominant surface wind from variable directions, with a wind speed up to 11 kmph, prevailed during the past 24 hours. Partly cloudy sky conditions with wind from the west-northwest direction with a wind speed of up to 10 kmph prevailed over the region in the forenoon today.

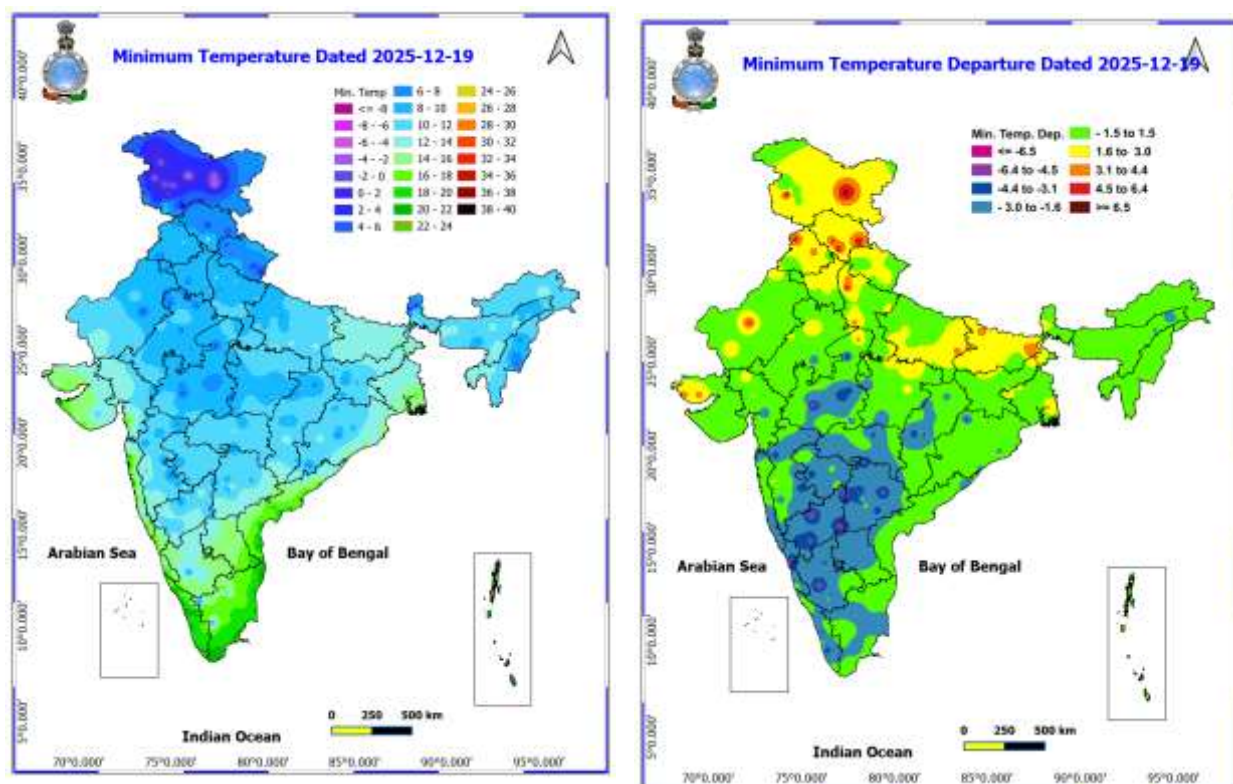
Weather Forecast:

19.12.2025: Partly cloudy sky. Shallow to moderate fog during the night/early hours. The maximum temperatures are likely to be in the range of 20 to 22°C. The maximum temperatures will be below normal (0.2 to 2.2°C) over Delhi. The predominant surface wind is likely to be from the west-northwest 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.

20.12.2025: Partly cloudy sky. Dense fog at many places, with very dense fog at isolated places, during the morning hours. Mist/shallow fog during the night. The maximum and minimum temperatures over Delhi are likely to be in the range of 21 to 23°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. The wind speed will decrease, becoming less than 05 kmph from the southeast direction during the evening and night.

21.12.2025: Partly cloudy sky. Moderate fog at many places, with dense fog at isolated places, during the morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 22 to 24°C and 09 to 11°C respectively. The minimum temperatures will be above normal (0.9 to 2.9 °C), and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the southeast direction with wind speeds up to 10 kmph during morning hours. The wind speed is likely to be from the east direction with wind speed up to 05 kmph during the afternoon. The wind speed will increase, becoming less than 10 kmph from the southeast direction during the evening and night.

22.12.2025: Partly cloudy sky. Moderate fog at many places, with dense 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 southeast 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 east in the afternoon and continuing to prevail till evening/night.



- ❖ **Impact expected due to Cold Wave conditions** very likely over isolated places over Telangana and South Interior Karnataka on 20th & 21st and over West Madhya Pradesh on 20th December.
- ❖ **Cold wave to Severe cold wave conditions** very likely over isolated places over North Interior Karnataka on 20th & 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.

- ❖ **Impact expected due to dense/very dense fog in the night/morning hours:** very likely at many places over Punjab till morning hours of 20th December, Uttarakhand, Haryana, Chandigarh, West Uttar Pradesh, north Madhya Pradesh & Bihar till morning hours of 21st December, East Uttar Pradesh till morning hours of 22nd December and at isolated places over Punjab, Haryana & Chandigarh, Uttar Pradesh on 24th & 25th 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** very likely over isolated places over Bihar and Uttar Pradesh on 19th 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 **West Madhya Pradesh, 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.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

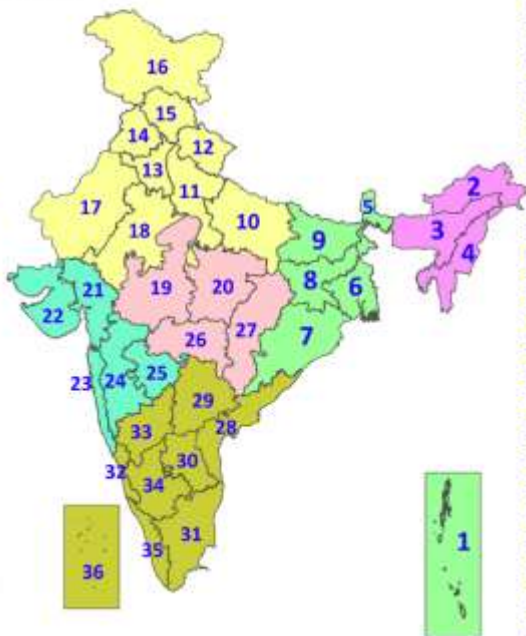
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Legends & 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 Marathwada.
 - **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)



Heavy Rain

Very Heavy Rain

Extremely Heavy Rain

Thunder & Lightning

Hailstorm

Dust Raising Winds

Heavy Snow

Dust Storm

Heat Wave

Warm Night

Hot Day

Hot & Humid

Strong Surface Winds

Cold Wave

Cold Day

Ground Frost

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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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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