



**Government of India  
Ministry of Earth Sciences  
India Meteorological Department**



**Press Release**

**Date: 22<sup>nd</sup> December, 2025**

**Time of Issue: 1310 hours IST**

**Subject: (i) Dense to very dense fog conditions during night/morning hours very likely over Punjab till 27<sup>th</sup> and over Uttar Pradesh till 23<sup>rd</sup> and 25<sup>th</sup> -28<sup>th</sup>; over Haryana Chandigarh & Delhi during 24<sup>th</sup> -27<sup>th</sup> with Dense fog conditions during night/morning hours very likely in isolated pockets of western Himalayan region during 22<sup>nd</sup> -27<sup>th</sup>; Punjab, Haryana Chandigarh & Delhi and Uttar Pradesh during 22<sup>nd</sup> -29<sup>th</sup> ; over Bihar and Odisha during 22<sup>nd</sup> -27<sup>th</sup> ; over Rajasthan, north Chhattisgarh, Jharkhand and north Madhya Pradesh on till 23<sup>rd</sup> ; over northeast India during 22<sup>nd</sup> – 25<sup>th</sup> December.**

**(ii) Cold day to severe cold day conditions very likely in isolated pockets of East Uttar Pradesh on 22<sup>nd</sup> and cold day conditions very likely in isolated pockets of West Uttar Pradesh, Madhya Pradesh and Jharkhand on 22<sup>nd</sup>; over Bihar during 22<sup>nd</sup> -26<sup>th</sup> December.**

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 22<sup>nd</sup> December, 2025:**

- ❖ **Dense to very Dense fog (visibility <50 m)** prevailed in some/many parts of Punjab and Uttar Pradesh; in isolated pockets of Himachal Pradesh, Haryana, East Madhya Pradesh and north Chhattisgarh; **dense fog (visibility 50-199 m):** reported in isolated pockets of Odisha, Bihar, Uttarakhand, Tripura and Rajasthan.
- ❖ **Visibility in meter reported ( $\leq 200$  m):** **Odisha:** Rourkela and Bolangir (50m); **Bihar:** Gaya (50m); **Himachal Pradesh:** Bilaspur (20 m); **Uttarakhand:** Khatima (100 m); **Punjab:** Amritsar(0m), Patiala(10m), Faridkot; **West Uttar Pradesh:** Agra(IAF)-(0m), AMS Moradabad & Etawah-20 each, Bareilly & Shahjahanpur-(25m) each, AMS Aligarh & Muzaffarnagar-(50m) each, Hamirpur-(100m); **East Uttar Pradesh:** AMS Ayodhya, Prayagraj(IAF) & Kanpur(IAF)-(0m) each, Kanour(city)-(10m), Bahraich, Prayagraj, Fatehgarh & Lucknow-(20m), Fursatganj-(30m), Banda & I. Kheri-(40m) each, AMS Kushinagar, Azamgarh, Ayodhya, Churk, Varanasi(AP), Varanasi(BHU) & Hardoi-50-each, Basti & Sultanpur-60 each, AMS Shravasti-100; **West Rajasthan:** Ganganagar, Jaisalmer (100 m); East Rajasthan: Jaipur (100m); **West Madhya Pradesh:** Gwalior, Datia VDF; **East Madhya Pradesh:** Rewa, Jabalpur, VDF; **Chhattisgarh:** Ambikapur 100; **Tripura:** Agartala-(50m)
- ❖ **Cold day to severe cold day conditions** observed in some pockets of East Madhya Pradesh and at isolated places over West Madhya Pradesh, Jharkhand and Bihar; **cold day conditions** in isolated pockets of Uttar Pradesh.
- ❖ **Cold wave conditions** in isolated pockets of Madhya Pradesh.
- ❖ **Light to moderate rainfall/snowfall** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.

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

- ❖ The **Western Disturbance** as a trough in middle now runs roughly along Long. 64°E to the north of Lat. 29°N.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order of 140 knots at 12.6 km above mean sea level continues to prevail over Northwest India.
- ❖ A **fresh feeble Western Disturbance** is likely to effect western Himalayan region from 27<sup>th</sup> December.

**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 on 22<sup>nd</sup>, 23<sup>rd</sup> and 27<sup>th</sup> & 28<sup>th</sup> and isolated to scattered rainfall/snowfall over Himachal Pradesh & Uttarakhand on 22<sup>nd</sup> & 28<sup>th</sup> December.
- ❖ **Isolated Thunderstorm and lightning** likely to prevail over Andaman & Nicobar Islands on 27<sup>th</sup> & 28<sup>th</sup> December.

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

- ❖ **Minimum temperatures** were **below 5°C** at few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and at isolated places over Himachal Pradesh; in the **range of 5°-10°C** at many places Uttarakhand, Delhi, Punjab, Uttar Pradesh, Central India; at a few places over Haryana, east Rajasthan, Northeast India, Jharkhand, Chhattisgarh, Madhya Maharashtra ; at isolated places over Bihar, North Interior Karnataka Tamil Nadu, Sub-Himalayan West Bengal & Sikkim, Telangana.
- ❖ **Minimum Temperatures departures** were **markedly below normal (<-5.0°C)** at a isolated places over North Interior Karnataka; **appreciably below normal (-5.0°C to -3.1°C)** at many places over Telangana; at a few places over Chhattisgarh ; at isolated places over Konkan & Goa, South Interior Karnataka, Madhya Maharashtra, Vidarbha, East Uttar Pradesh & Andaman & Nicobar Islands and **below normal (-1.6°C to -3.0°C)** at a few places over Madhya Pradesh, Kerala & Mahe; at isolated places over Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Bihar, Jharkhand and Odisha. **(refer to ANNEXURE IV)**
- ❖ **Minimum Temperatures show rising tendency during past 24 hours by 2-4°C** over some parts of East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal; **falling tendency by 1-2°C** at isolated places over Jammu-Kashmir, Himachal Pradesh, Punjab, East Uttar Pradesh, Bihar Andaman & Nicobar Islands, Lakshadweep and Sub-Himalayan West Bengal & Sikkim. **The lowest minimum temperature of 4.5 was observed over Barabanki (East Uttar Pradesh) over the plains of India.**
- ❖ Yesterday, **Maximum Temperatures** were below normal by 5-8°C over many parts of Uttar Pradesh, Bihar and North Madhya Pradesh and by 3-5°C over Punjab, Haryana Chandigarh, Delhi and North Rajasthan.

#### **Forecast of minimum temperatures:**

- ❖ Gradual fall in minimum temperature by 3-5°C very likely over Northwest India for next 3 days and no significant change thereafter for subsequent 4 days.
- ❖ No significant change in minimum temperature very likely over East India for next 2 days and gradual fall in minimum temperature by 2-3°C for subsequent 5 days.
- ❖ No significant change in minimum temperatures over Central for next 24 hours, gradual fall by 2°C during subsequent 2 days and thereafter No significant change.
- ❖ Gradual fall in minimum temperatures by 2-3°C over Maharashtra for next 2 days and no significant change in minimum temperatures.
- ❖ No significant change in minimum temperatures over Gujarat Region during next 24 hours, gradual fall by 2-3°C during subsequent 3 days and no significant change thereafter.
- ❖ No significant change in minimum temperature over rest 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 over Punjab till 27<sup>th</sup> and over Uttar Pradesh till 23<sup>rd</sup> and 25<sup>th</sup> -28<sup>th</sup>; over Haryana Chandigarh & Delhi during 24<sup>th</sup> -27<sup>th</sup> with **Dense fog conditions** during night/morning hours very likely in isolated pockets of western Himalayan region during 22<sup>nd</sup> -27<sup>th</sup>; Punjab, Haryana Chandigarh & Delhi and Uttar Pradesh during 22<sup>nd</sup> -29<sup>th</sup> ; over Bihar and Odisha during 22<sup>nd</sup> -27<sup>th</sup> ; over Rajasthan, north Chhattisgarh, Jharkhand and north Madhya Pradesh on till 23<sup>rd</sup> ; over northeast India during 22<sup>nd</sup> - 25<sup>th</sup> December.
- ❖ **Cold day to severe cold day conditions** very likely in isolated pockets of East Uttar Pradesh on 22<sup>nd</sup> and **cold day conditions** very likely in isolated pockets of West Uttar Pradesh, Madhya Pradesh and Jharkhand on 22<sup>nd</sup> ; over Bihar during 22<sup>nd</sup> -26<sup>th</sup> December.

#### **Fisherman Warning:**

Fishermen are advised not to venture into the following areas during 22<sup>nd</sup> December to 27<sup>th</sup> December:

- ❖ Bay of Bengal: Over Comorin area & adjoining, some parts of Gulf of Mannar during 22<sup>nd</sup> to 25<sup>th</sup> December; along and off Somalia coast, adjoining sea areas during 22<sup>nd</sup> to 24<sup>th</sup> December.

#### **ii) Weather conditions and forecast over Delhi/NCR during 22<sup>nd</sup> -25<sup>th</sup> December, 2025 (ANNEXURE III)**

**For more details, kindly refer National Weather Bulletin:**

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

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

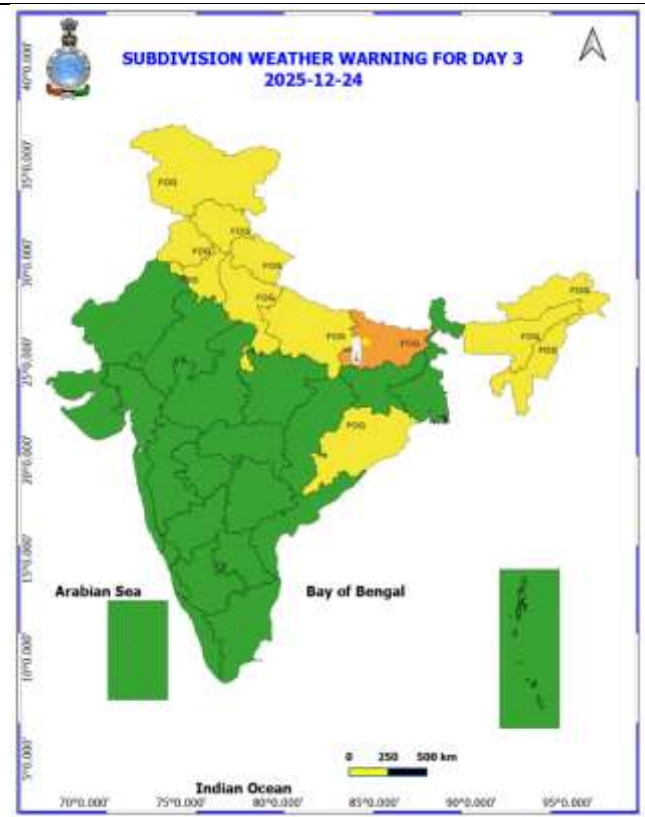
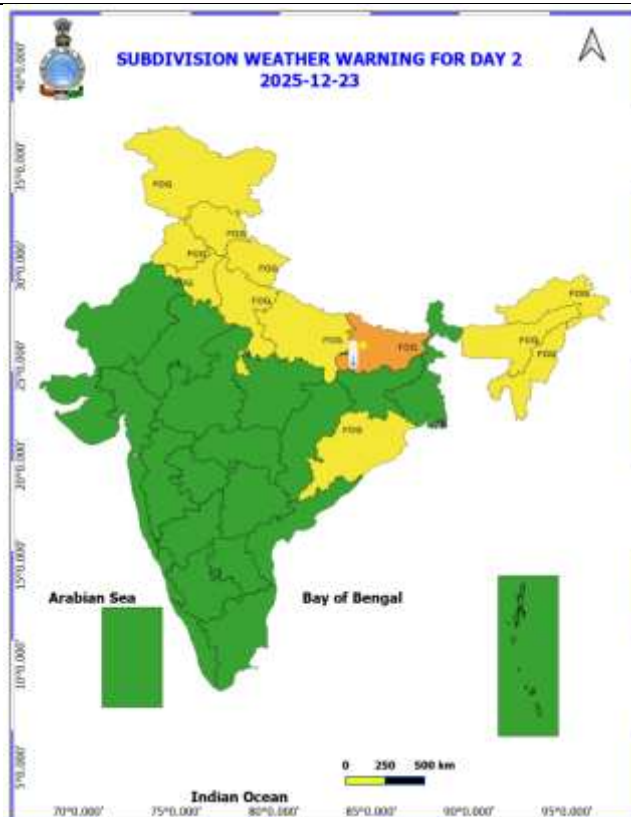
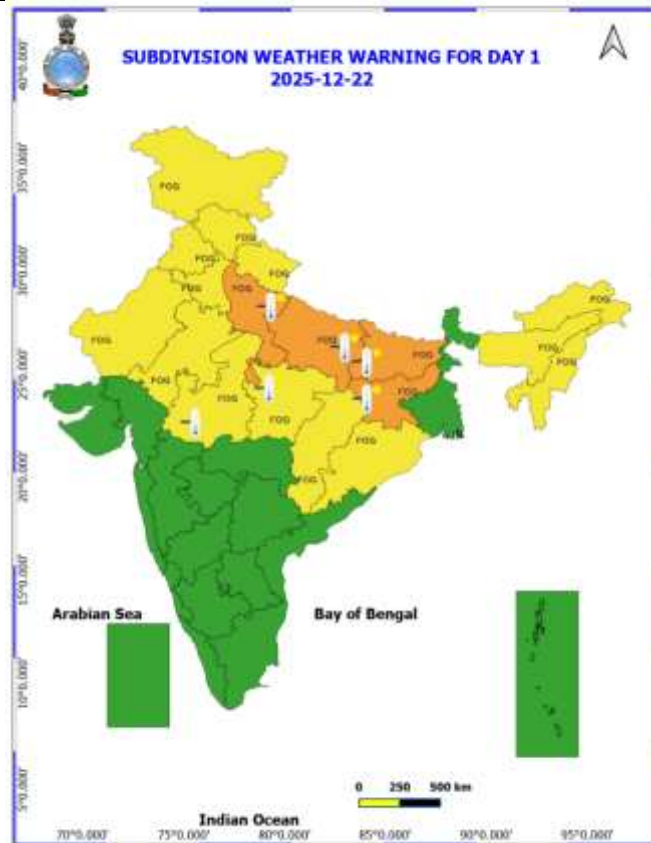
**For Fishermen warning refer** <https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php>

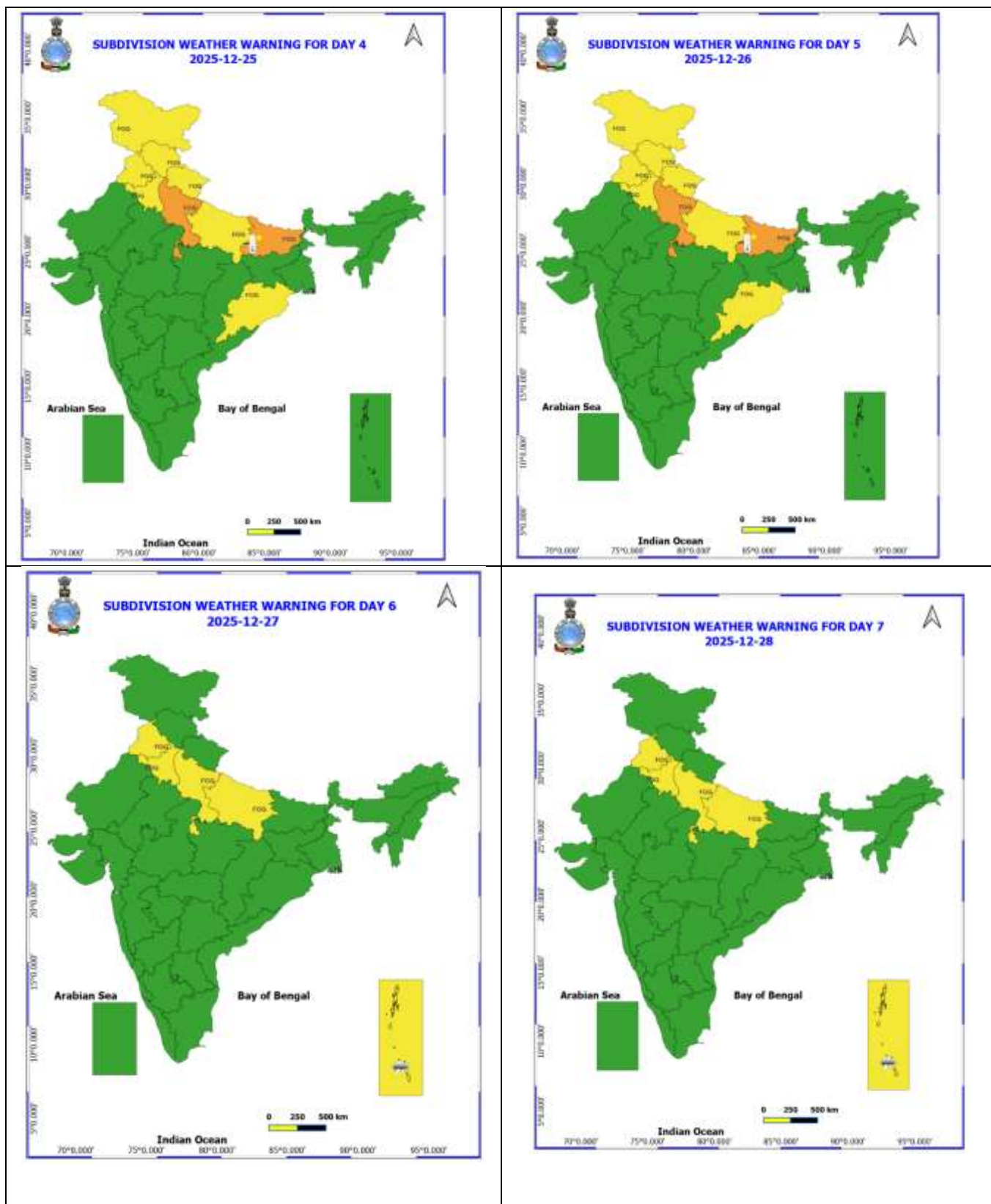
## ANNEXURE I

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	22- Dec	23- Dec	24- Dec	25- Dec	26- Dec	27- Dec	28- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
2	ARUNACHAL PRADESH	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	DRY	ISOL	ISOL	ISOL	ISOL	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	DRY	DRY	DRY	DRY	DRY	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	DRY	DRY	ISOL
16	JAMMU AND KASHMIR AND LADAKH	FWS	ISOL	DRY	DRY	DRY	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	DRY	DRY	ISOL	ISOL	ISOL	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 Multi Hazard weather warning for next five days available at  
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

**Weather forecast over Delhi/NCR during 22<sup>nd</sup> December to 25<sup>th</sup> December 2025****Past Weather:**

There has been a rise in maximum temperatures by 1-2°C and no large change in minimum temperatures during the past 24 hours over Delhi. The maximum and minimum temperatures in Delhi were around 16°C to 18°C and 8°C to 11°C, respectively. The minimum temperatures were appreciably above normal (3.1 to 5.0°C) at a few places and normal (-1.5 to 1.5°C) at many places over Delhi. The maximum temperatures were below normal (-3.1 to -5.0 °C) at most places over Delhi. Palam reported the lowest visibility 150 meters in moderate fog at 0800 IST, which gradually improved to 0400 meters at 0930IST in shallow fog with southeast winds at 8 Kmph; Safdarjung reported the lowest visibility 0350 meters in moderate fog during 0830 to 0930 IST, which gradually improved to 0450 meters in shallow fog at 1000 IST. Partly cloudy sky conditions with predominant surface wind from the southeast direction, with a wind speed up to 10 kmph, prevailed during the past 24 hours. Partly cloudy sky conditions with wind from the southeast direction with a wind speed of up to 08 kmph prevailed over the region in the forenoon today.

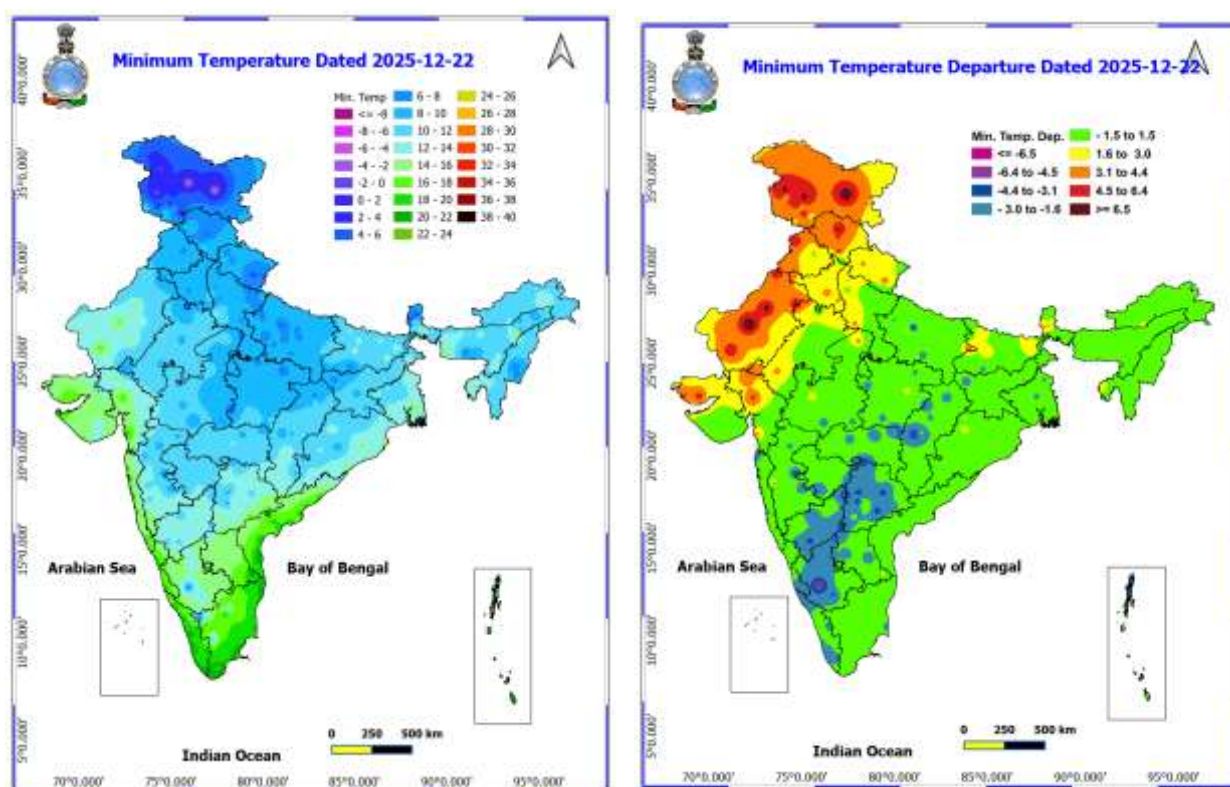
**Weather Forecast:**

**22.12.2025:** Partly cloudy sky. Mist/shallow fog during the night. The maximum temperatures are likely to be in the range of 19°C to 21°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 15 kmph during the afternoon hours. The wind speed will decrease, becoming less than 12 kmph from the northwest direction during the evening and night.

**23.12.2025:** Mainly clear sky. Shallow to moderate fog during morning hours. Surface wind speed 15-25 kmph during the day. The maximum and minimum temperatures over Delhi are likely to be in the range of 21°C to 23°C and 09 to 11°C respectively. The minimum temperatures will be above normal (1.5°C to 3.5°C) and the maximum temperatures will be above normal (0.3°C to 2.3°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speeds up to 15 kmph during the morning hours. The wind speed will increase, becoming up to 20 kmph from the northwest direction in the afternoon. The wind speed will decrease, becoming less than 15 kmph from the northwest direction during the evening and night.

**24.12.2025:** Mainly clear sky. Shallow fog during morning hours. Surface wind speed 15-25 kmph during the day. The maximum and minimum temperatures over Delhi are likely to be in the range of 18°C to 20°C and 08°C to 10°C respectively. The minimum temperatures will be above normal (0.5°C to 2.5°C), and the maximum temperatures will be below normal (-0.7°C to -2.7°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speeds up to 15 kmph during morning hours. The wind speed will increase, becoming up to 20 kmph from the northwest direction in the afternoon. The wind speed will decrease, becoming less than 15 kmph from the northwest direction during the evening and night.

**25.12.2025:** Mainly clear sky. Shallow fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 18°C to 20°C and 06°C to 08°C, respectively. The minimum temperatures will be near normal, and the maximum temperatures will be below normal (-0.7°C to -2.7°C) over Delhi. The predominant surface wind is likely to be from the west direction associated with wind speeds up to 10 kmph during the morning hours. The wind speed will decrease, becoming up to 08 kmph from the west-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:

- ❖ **Dense to very dense fog conditions** during night/morning hours very likely over Punjab till 27<sup>th</sup> and over Uttar Pradesh till 23<sup>rd</sup> and 25<sup>th</sup> -28<sup>th</sup>; over Haryana Chandigarh & Delhi during 24<sup>th</sup> -27<sup>th</sup> with **Dense fog conditions** during night/morning hours very likely in isolated pockets of western Himalayan region during 22<sup>nd</sup> -27<sup>th</sup>; Punjab, Haryana Chandigarh & Delhi and Uttar Pradesh during 22<sup>nd</sup> -29<sup>th</sup> ; over Bihar and Odisha during 22<sup>nd</sup> -27<sup>th</sup> ; over Rajasthan, north Chhattisgarh, Jharkhand and north Madhya Pradesh on till 23<sup>rd</sup> ; over northeast India during 22<sup>nd</sup> – 25<sup>th</sup> 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:** in isolated pockets of East Uttar Pradesh on 22<sup>nd</sup> and **cold day conditions** very likely in isolated pockets of West Uttar Pradesh, Madhya Pradesh and Jharkhand on 22<sup>nd</sup> ; over Bihar during 22<sup>nd</sup> -26<sup>th</sup> 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.



## LEGENDS

1. अंडमान और निकोबार द्वीपसमूह

2. अरुणाचल प्रदेश

3. असम और मेघालय

4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल

7. ओडिशा

8. झारखंड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखंड

13. हरियाणा, चंडीगढ़ और दिल्ली

14. पंजाब

15. हिमाचल प्रदेश

16. जम्मू और कश्मीर और लद्दाख

17. पश्चिम राजस्थान

18. पूर्वी राजस्थान

19. पश्चिम मध्य प्रदेश

20. पूर्वी मध्य प्रदेश

21. गुजरात

22. सौराष्ट्र

23. कोंकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुडुचेरी और कराईकल

32. तटीय कर्नाटक

33. आंतरिक उत्तरी कर्नाटक

34. आंतरिक दक्षिणी कर्नाटक

35. केरल और माहे

36. लक्षद्वीप



1. Andaman & Nicobar Islands

2. Arunachal Pradesh

3. Assam & Meghalaya

4. Nagaland, Manipur, Mizoram & Tripura

5. Sub-Himalayan West Bengal & Sikkim

6. Gangetic West Bengal

7. Odisha

8. Jharkhand

9. Bihar

10. East Uttar Pradesh

11. West Uttar Pradesh

12. Uttarakhand

13. Haryana, Chandigarh & Delhi

14. Punjab

15. Himachal Pradesh

16. Jammu & Kashmir and Ladakh

17. West Rajasthan

18. East Rajasthan

19. West Madhya Pradesh

20. East Madhya Pradesh

21. Gujarat

22. Saurashtra

23. Konkan & Goa

24. Madhya Maharashtra

25. Marathwada

26. Vidarbha

27. Chhattisgarh

28. Coastal Andhra Pradesh & Yanam

29. Telangana

30. Rayalaseema

31. Tamilnadu, Puducherry & Karaikal

32. Coastal Karnataka

33. North Interior Karnataka

34. South Interior Karnataka

35. Kerala & Mahe

36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

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



Fog



Heavy Snow



Cold Wave



Heavy Rain



Dust Storm



Cold Day



Very Heavy Rain



Heat Wave



Ground Frost



Extremely Heavy Rain



Warm Night



Thunder & Lightning



Hot Day



Hailstorm



Hot & Humid



Dust Raising Winds



Strong Surface Winds

### COLOUR CODED WARNING

No Warning (No Action)

Watch (Be Aware)

Alert (Be Prepared To Take Action)

Warning (Take Action)

### Probabilistic Forecast

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

\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

(Service to the Nation since 1875)

## DEFINITION/CRITERIA

### Rain/ Snow \*

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

### Heat Wave

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

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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

(b). Based on Actual maximum temperature

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

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

(c). Criteria for heat wave for coastal stations

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

### Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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

### Cold Wave

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

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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

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

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

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

(c) For Coastal Stations

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

### Cold Day

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

Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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

### Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility  $< 50$  metres

### Thunderstorm

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

### Dust/Sand Storm

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

### Frost

Ice deposits on ground

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

### Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-67 kmph

Very Severe: Wind speed  $> 67$  kmph

### Sea State

Effect of various waves in the sea over specific area

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

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

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

### Cyclone

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

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

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

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

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

\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

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