



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 09th December, 2025

Time of Issue: 1320 hours IST

Subject: (i) Cold wave conditions very likely to continue to prevail over central and adjoining east & northern Peninsular India; and commence over parts of northwest India till 12th of December 2025.

(ii) Dense fog conditions very likely to prevail during morning hours in isolated pockets of Himachal Pradesh on 10th, Odisha on 10th & 11th, East Uttar Pradesh during 10th-13th and over Assam & Manipur during 10th-14th December.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 09th December, 2025:

- ❖ Very dense (visibility <50 m) to dense fog reported temporarily at isolated pockets of East Uttar Pradesh in the morning hours; dense fog (visibility 50-199 m): reported in isolated pockets of Odisha and Meghalaya.
- ❖ **Visibility reported (≤ 200 m) (in meter):** East Uttar Pradesh: Ams Kushinagar-00m, Bahraich-50m, Gorakhpur-100; Odisha: Rourkela (70m); Meghalaya: Barapani 150m
- ❖ **Cold wave conditions** prevailed at isolated places over Chhattisgarh, West Madhya Pradesh, Vidarbha, Odisha and Madhya Maharashtra since last 4 days.

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

- ❖ An upper air cyclonic circulation lies over central Pakistan & adjoining Punjab in lower tropospheric level.
- ❖ The **Western Disturbance** seen as a trough in middle tropospheric westerlies with its axis roughly along Long. 81°E to the north of Lat. 23 °N.
- ❖ The **trough** in easterlies runs roughly along Long. 83 °E over southwest Bay of Bengal in lower tropospheric level.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order upto 120 knots at 12.6 km above mean sea level continues to prevail over the plains of North India.
- ❖ A fresh feeble **Western Disturbance** is likely to affect western Himalayan region from 13th December 2025.

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

- ❖ Light rainfall/snowfall at isolated places over Western Himalayan Region from 13th December.
- ❖ Light to moderate rainfall at a few places accompanied with **isolated thunderstorm, lightning and heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal on 09th December.
- ❖ **Gusty Wind speed (30-40 kmph)** likely to prevail over Andaman & Nicobar Islands on 11th & 12th and with thunderstorm, lightning with **Gusty Wind speed (30-40 kmph)** likely to prevail on 13th & 14th 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, Himachal Pradesh; at isolated places over Sub-Himalayan West Bengal & Sikkim; in the **range of 5°-10°C** at many places over Uttarakhand, Punjab, Haryana, Uttar Pradesh, north Rajasthan, Madhya Pradesh, Chhattisgarh; at isolated places over Madhya Maharashtra, Vidarbha, Odisha, Northeast India. **The lowest minimum temperature of 2.8 °C is reported at Adampur (Punjab) over the plains of India.**
- ❖ **Minimum Temperature** were **below normal (-1.6°C to -3.0°C)** at few places over Uttar Pradesh, Arunachal Pradesh, Manipur, Coastal Andhra Pradesh & Yanam, Marathawada, Vidarbha, East Rajasthan; at isolated places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Gujarat Region.; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Uttar Pradesh, Assam & Meghalaya, Bihar, Gangetic West Bengal, Jharkhand, West Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Telangana. **markedly below normal ($\leq -5.1^{\circ}\text{C}$)**

at isolated places over East Madhya Pradesh, Madhya Maharashtra, North Interior Karnataka, Chhattisgarh, Odisha. **(refer to ANNEXURE IV)**

❖ **Minimum Temperatures show rising tendency by 1-2°C** over many parts of East Madhya Pradesh, Gangetic West Bengal; **falling tendency by 1-2°C** over some parts of Western Himalayan region, East Uttar Pradesh, Saurashtra & Kutch, Madhya Maharashtra, northeast and Peninsular India.

Forecast of minimum temperatures:

❖ Gradual fall in minimum temperature by 2°C very likely over plains of Northwest India during next 3 days and rise by 2-4°C thereafter during subsequent 4 days.
❖ No significant change in minimum temperature very likely over Central India for next 3 days and rise by 2-3°C thereafter for subsequent 4 days.
❖ Gradual fall in minimum temperature by 2-3°C very likely over Maharashtra for next 4 days and no significant change during subsequent 3 days.
❖ No significant change in minimum temperature over rest parts of India during next 7 days.

Dense Fog & Cold wave warning Warnings:

❖ **Cold wave conditions** very likely to prevail at isolated places over Punjab, West Madhya Pradesh, Chhattisgarh, Odisha, Madhya Maharashtra, North Interior Karnataka, Telangana, during 10th-12th, Vidarbha on 10th, Haryana and Marathawada on 11th & 12th December.
❖ **Dense fog conditions** very likely to prevail during morning hours in isolated pockets of Himachal Pradesh on 10th, Odisha on 10th & 11th, East Uttar Pradesh during 10th-13th and over Assam and Manipur during 10th-14th December.

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 09th December to 14th December:

❖ **Arabian Sea:**

Comorin area during 09th to 13th December.

❖ **Bay of Bengal:**

Over Gulf of Mannar during 9th to 13th December; southwest Bay of Bengal during 9th to 11th December; along & off Tamil Nadu, Puducherry coasts on 9th & 10th December; along and off Sri Lanka coast on 9th & 10th December.

ii) Weather conditions and forecast over Delhi/NCR during 09th December-12th December, 2025 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all_india_forcast_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>

Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):

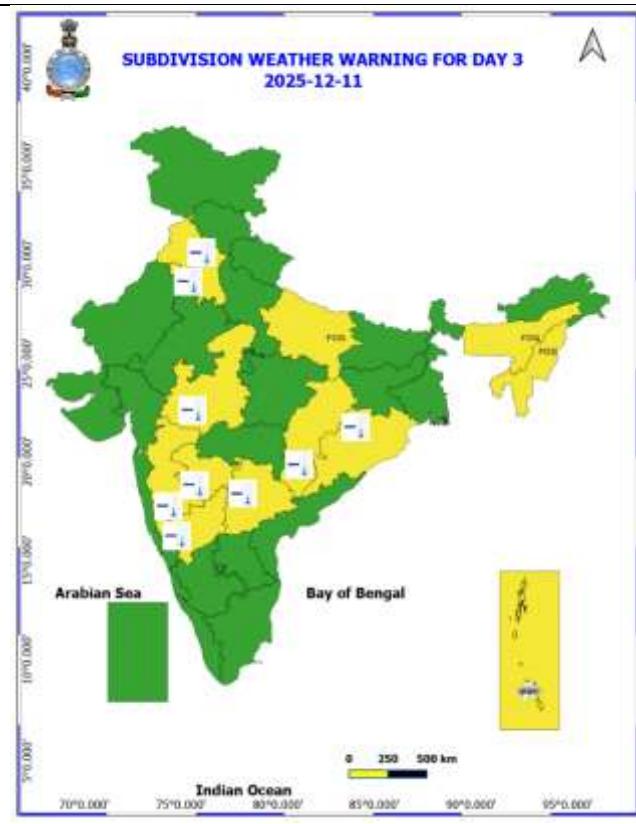
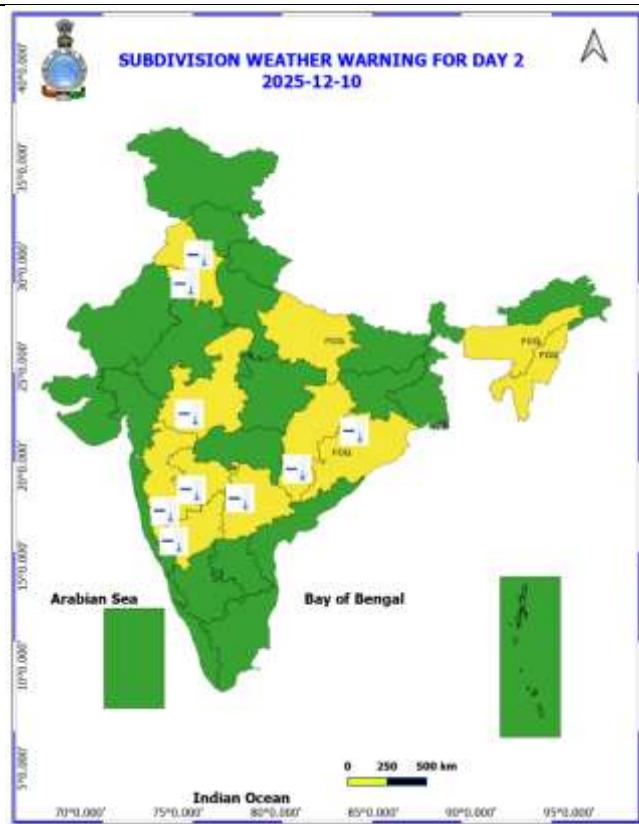
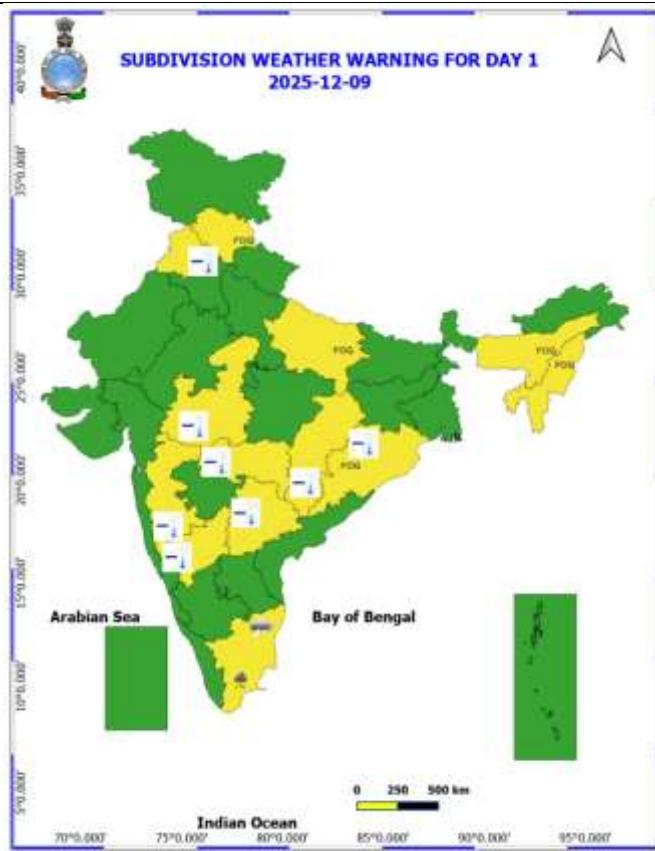
❖ **Tamil Nadu:** Kalugumalai (dist Thoothukudi) 1.

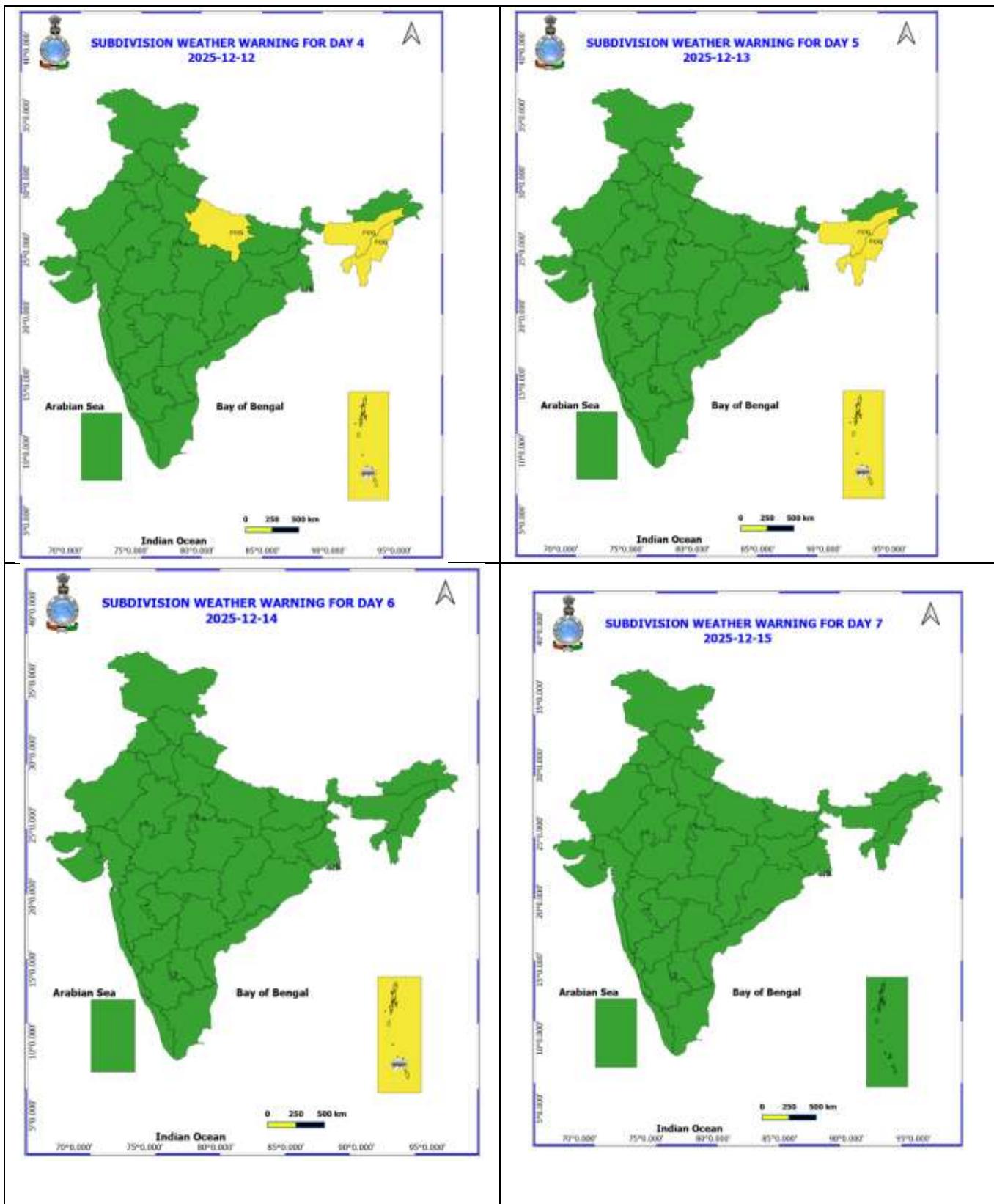
Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	9- Dec	10- Dec	11- Dec	12- Dec	13- Dec	14- Dec	15- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	SCT	FWS	FWS	FWS	SCT
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	ISOL	ISOL	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	DRY	DRY	DRY	DRY	DRY
13	HARYANA, CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	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	ISOL	ISOL	ISOL	ISOL	ISOL	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 09th to 12th December 2025

Past Weather:

There has been a rise in maximum temperatures by 1-2°C and fall in minimum temperatures by 2°C at isolated places and no large change over remaining parts of Delhi during the past 24 hours. The maximum and minimum temperatures over Delhi were around 23 to 26°C and 08 to 09°C respectively. The minimum temperatures are below normal (-1.6 to -3.0°C) at few places and normal (-1.5 to 1.5°C) over remaining parts of Delhi. The maximum temperatures were normal (-1.5 to 1.5°C) at most places and above normal (1.6 to 3.0°C) at isolated places over Delhi. Smoke was reported at Safdarjung Airport. Mainly clear sky conditions with predominant surface wind from the west direction, with a wind speed up to 22 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind from the southwest direction with a wind speed up to 14 kmph prevailed over the region in the forenoon today.

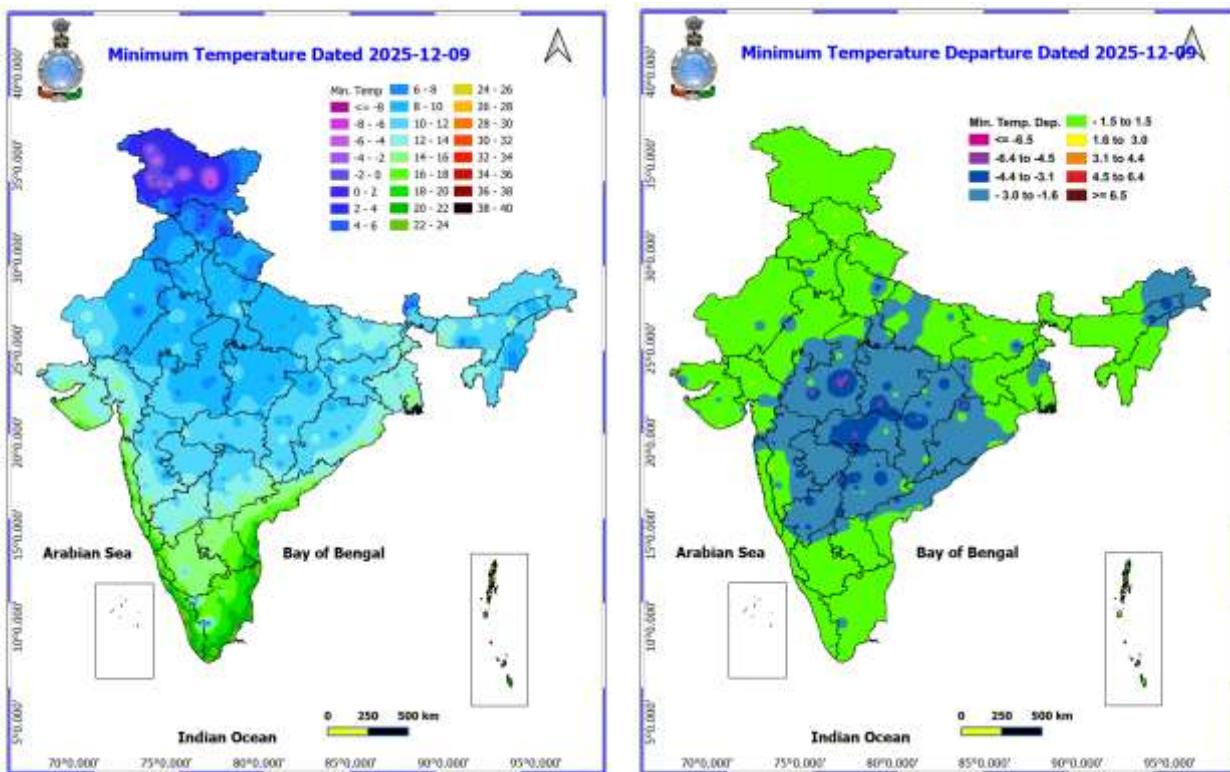
Weather Forecast:

09.12.2025: Mainly clear sky. Surface winds 15-25 kmph likely to prevail during the day time. Mist/Haze during the night. The maximum temperatures are likely to be in the range of 23 to 25°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 25 kmph during the afternoon hours. The wind speed will decrease becoming less than 20 kmph from the northwest direction during the evening and night.

10.12.2025: Mainly clear sky. Shallow fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 23 to 25°C and 07 to 09°C respectively. The minimum temperatures and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the west direction with wind speeds up to 20 kmph during morning hours. The wind speed will decrease becoming less than 15 kmph from the northwest direction in the afternoon. The wind speed will decrease, becoming less than 12 kmph from the northwest direction during the evening and night.

11.12.2025: Mainly clear sky. Shallow fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 23 to 25°C and 06 to 08°C respectively. The minimum temperatures will be below normal (-1.6°C to -3.6°C) and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the west direction associated with wind speeds up to 10 kmph during morning hours. The wind speed will increase becoming up to 12 kmph from the northwest direction in the afternoon. The wind speed will decrease, becoming less than 10 kmph from the northwest direction during the evening and night.

12.12.2025: Partly cloudy sky. Shallow fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 22 °C to 24 °C and 07 °C to 09 °C, respectively. The minimum temperatures and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the west direction, with wind speeds of up to 10 kmph during the morning hours. The wind speed will increase becoming up to 12 kmph from the northwest direction in the afternoon. The predominant surface wind is likely to be from the southeast direction associated with calm wind gradually increasing up to 05 kmph during the evening and night.



Impact expected due to Cold Wave conditions likely to prevail at isolated places over Punjab, West Madhya Pradesh, Chhattisgarh, Odisha, Madhya Maharashtra, North Interior Karnataka, Telangana, during 10th-12th, Vidarbha on 10th, Haryana and Marathawada on 11th & 12th 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 hour: in isolated pockets of Himachal Pradesh on 10th, Odisha on 10th & 11th, East Uttar Pradesh during 10th-13th and over Assam and Manipur during 10th-14th 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.

Agromet advisories for likely impact of Cold Waves / Low Temperatures

- In **Punjab, Haryana, Odisha, East Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, North 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 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. झारखण्ड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखण्ड

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. कोकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुदुचेरी और कराईकल

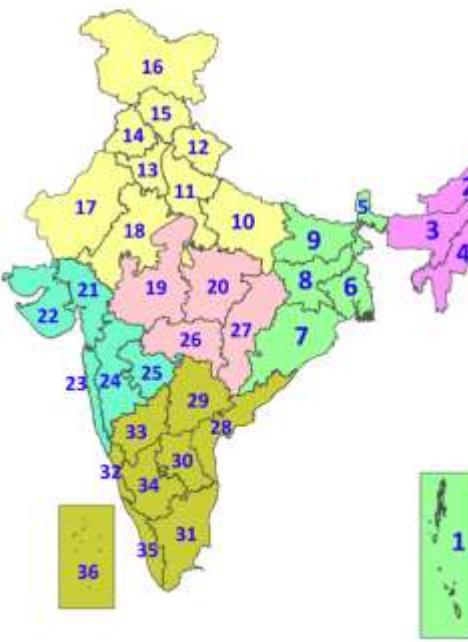
32. तटीय कर्नाटक

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक 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

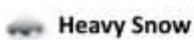
34. South Interior Karnataka

35. Kerala & Mahe

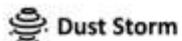
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

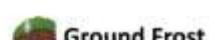
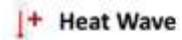
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)		
51-75	Fairly Widespread (FWS/Many Places)		
26-50	Scattered (SCT/A Few Places)		
1-25	Isolated (ISOL)		



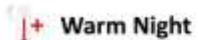
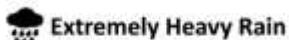
COLOUR CODED WARNING



No Warning (No Action)



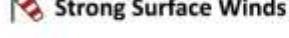
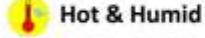
Watch (Be Aware)



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 *

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 $\geq 6.5^{\circ}\text{C}$

Heat Wave

(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 62-87 kmph

Very Severe: Wind speed >87 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 Strom: 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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