



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



Press Release

Date: 18th December, 2025

Time of Issue: 1330 hours IST

Subject: (i) Dense to very Dense fog conditions very likely to continue to prevail during early hours/morning hours over Uttar Pradesh, Haryana during 19th-21st December, over Punjab, Uttarakhand & Bihar on 19th & 20th December and dense fog thereafter for subsequent 2-3 days.

(ii) Dense fog conditions likely over Northeast India during 19th -21st, Himachal Pradesh during 19th-20th, Odisha and Jharkhand during 18th-20th December.

(iii) Cold Day at a few places with severe cold day at isolated pockets very likely to prevail over Uttar Pradesh and Uttarakhand during next 2 days.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 18th December, 2025:

- ❖ **Very Heavy rainfall** recorded at isolated places over Tamil Nadu.
- ❖ **Dense to very Dense fog (visibility <50 m)** prevailed at few places of Uttar Pradesh and isolated pockets of Uttarakhand, Punjab, Haryana in the morning hours; **dense fog (visibility 50-199 m):** reported in isolated pockets of Meghalaya, Odisha, Bihar.
- ❖ **Visibility reported (≤200 m): West Uttar Pradesh:** Agra(Iaf) & Bareilly(Iaf)-0 Each, Agra(Taj)20, Aligarh-40, Ams Moradabad-50, Ams Aligarh & Meerut-100 Each; **East Uttar Pradesh:** Ams Kushnigar, Prayagraj(Iaf), Gorakhpur(Iaf) & Kanpur(Iaf)-0 Each, Ballia & Gorakhpur-10 Each, Bahraich & Prayag-20 Each, Fatehgarh & Hardoi-30 Each, Basti, Azamgarh, Furasatganj, Ayodhya & Varanasi(Ap)-50 Each, Lakhimpur Kheri-80, Sultanpur & Kanpur(City)-100 Each, Ghazipur-150; **Uttarakhand:** Haridwar (25m), Pantnagar (50m) And Khatima(75m); **Punjab:** Patiala(30m); **Haryana:** Ambala(40m), Chandigarh Iaf(<50m); **Meghalaya:** Barapani 50, **Odisha:** Rourkela (50m); **Bihar:** Gaya, Bhagalpur 50 each; Patna (100m).
- ❖ **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 over Jammu in lower tropospheric levels.
- ❖ Another **Western Disturbance** as a **cyclonic circulation** over Southwest Iran in middle tropospheric levels.
- ❖ A **cyclonic circulation** lay over South Kerala in lower tropospheric levels.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order upto 105 knots at 12.6 km above mean sea level prevails over North India.

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

- ❖ Light rainfall/snowfall likely at a few/many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 20th & 21st and at a few/isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 18th & 19th, 22nd & 23rd, Himachal Pradesh during 20th-22nd, Uttarakhand on 20th & 21st December.
- ❖ **Heavy rainfall/snowfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 21st December.
- ❖ Light rainfall likely at isolated places 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 many places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Rajasthan, Chhattisgarh, Odisha, Madhya Maharashtra,

Kerala & Mahe; over isolated places over Telangana, North Interior Karnataka, Assam & Meghalaya. **The lowest minimum temperature of 4.5 Indore (West Madhya Pradesh) over the plains of India.**

- ❖ **Minimum Temperatures** were **below normal (-1.6°C to -3.0°C)** at isolated places over Assam & Meghalaya, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Marathwada and North Interior Karnataka. **appreciably below normal (-5.0°C to -3.1°C)** at isolated places over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Telangana, Vidarbha and West Madhya Pradesh. **(refer to ANNEXURE IV)**
- ❖ **Minimum Temperatures show rising tendency during past 24 hours by 1-2 °C** at a few places over Western Himalayan Region, Uttar Pradesh, Gujarat state, East Madhya Pradesh at isolated places over north Rajasthan; **falling tendency by 1-2°C** over some parts of Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam, **by 3-5 °C** at a few places over south Peninsular India.

Forecast of minimum temperatures:

- ❖ No significant change in minimum temperature very likely over Northwest India during next 24 hours, gradual rise by 2-3°C thereafter during subsequent 3 days and no significant change thereafter.
- ❖ No significant change in minimum temperature very likely over Maharashtra during next 2 days and gradual rise by 2-3°C thereafter during subsequent 5 days.
- ❖ Gradual Rise in minimum temperatures by 2-3°C likely over Gujarat during next 2 days and gradual fall by 2-3°C thereafter during subsequent 5 days.
- ❖ No significant change in minimum temperature over remaining parts of the country during next 7 days.

Forecast of Maximum temperatures:

- ❖ No significant change in Maximum temperature very likely over Haryana, Punjab during next 2-3 days and gradual fall by 2-3°C thereafter during subsequent 4 days.
- ❖ No significant change in Maximum temperature very likely over Uttarakhand during next 3 days and gradual fall by 1-2°C thereafter during subsequent 4 days.
- ❖ No significant change in Maximum temperature very likely over Bihar during next 7 days.

Dense Fog & Cold wave Warnings:

- ❖ **Dense to very dense fog conditions** very likely to prevail during early hours/morning hours at a few places over Punjab on 19th & 20th, Haryana Chandigarh during 19th-21st and **Dense fog conditions** very likely to prevail during early hours/morning hours in isolated pockets of Punjab on 21st, 24th & 25th and over Haryana Chandigarh on 22nd, 24th & 25th December.
- ❖ **Dense to very dense fog conditions** very likely to prevail during early hours/morning hours at a few/many places over Uttar Pradesh during 19th-21st; **Dense fog conditions** very likely to prevail during early hours/morning hours in isolated pockets of Uttar Pradesh during 22nd-25th December.
- ❖ **Dense to very dense fog conditions** very likely to prevail during early hours/morning hours at isolated pockets over Uttarakhand on 19th & 20th and **Dense fog conditions** very likely to prevail during early hours/morning hours in isolated pockets of Uttarakhand on 21st December.
- ❖ **Dense fog conditions** very likely to prevail during early hours/morning hours at a few places over Bihar during 19th-22nd; in isolated pockets of Jharkhand, Odisha on 19th & 20th, Gangetic West Bengal on 20th, over northeast India during 19th-22nd December.
- ❖ **Cold wave conditions** very likely over isolated places over West Madhya Pradesh on 18th December.
- ❖ **Cold Day to Severe cold day conditions** very likely over isolated places over Uttar Pradesh on 19th & 20th, **Cold Day conditions** very likely over isolated places over Uttarakhand on 19th & 20th December.

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 18th December to 23rd December:

- **Bay of Bengal:** Over Gulf of Mannar and adjoining Comorin area during 18th to 20th December.

ii) Weather conditions and forecast over Delhi/NCR during 18th -21st 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>

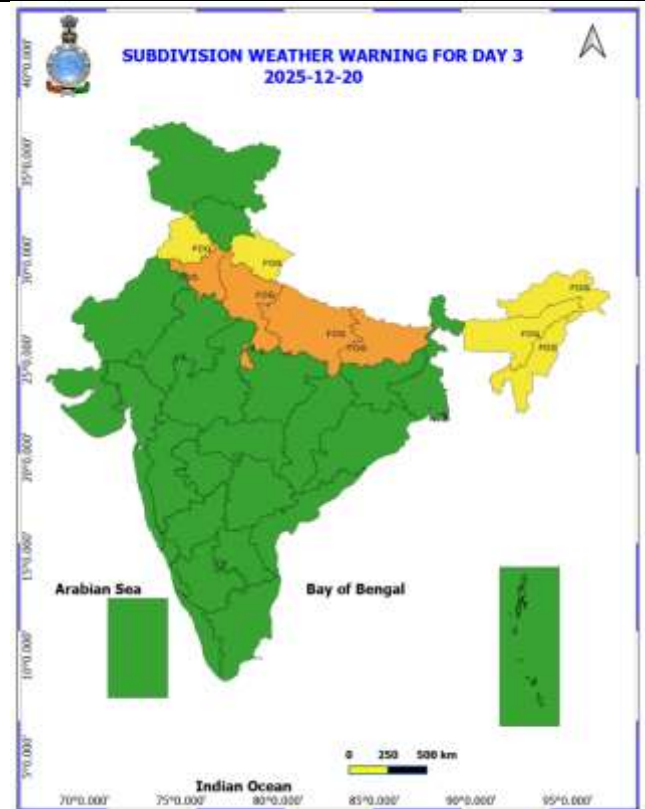
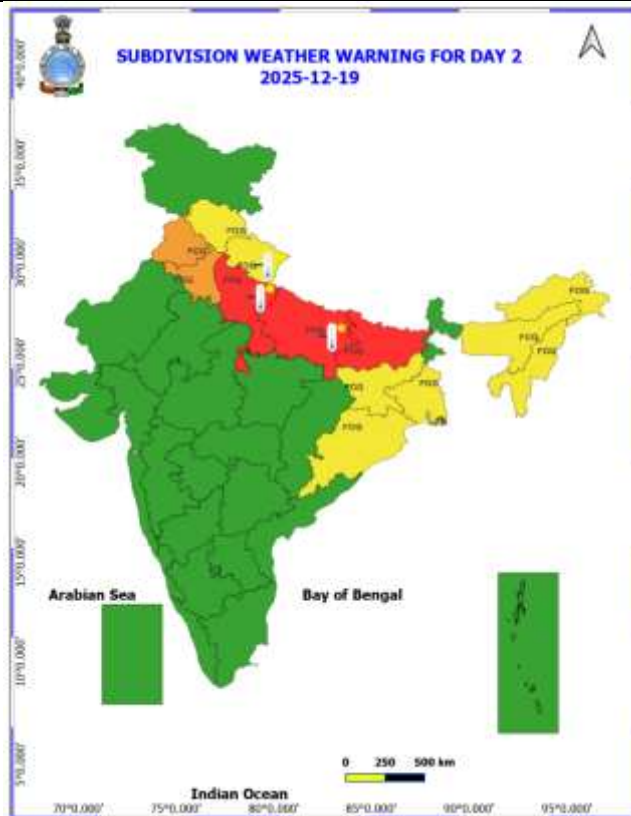
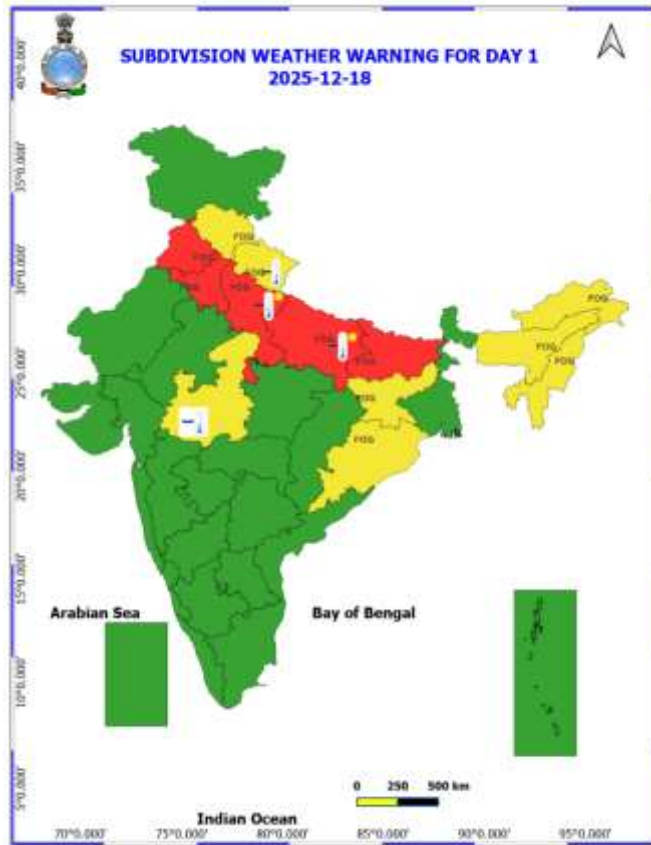
For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php>

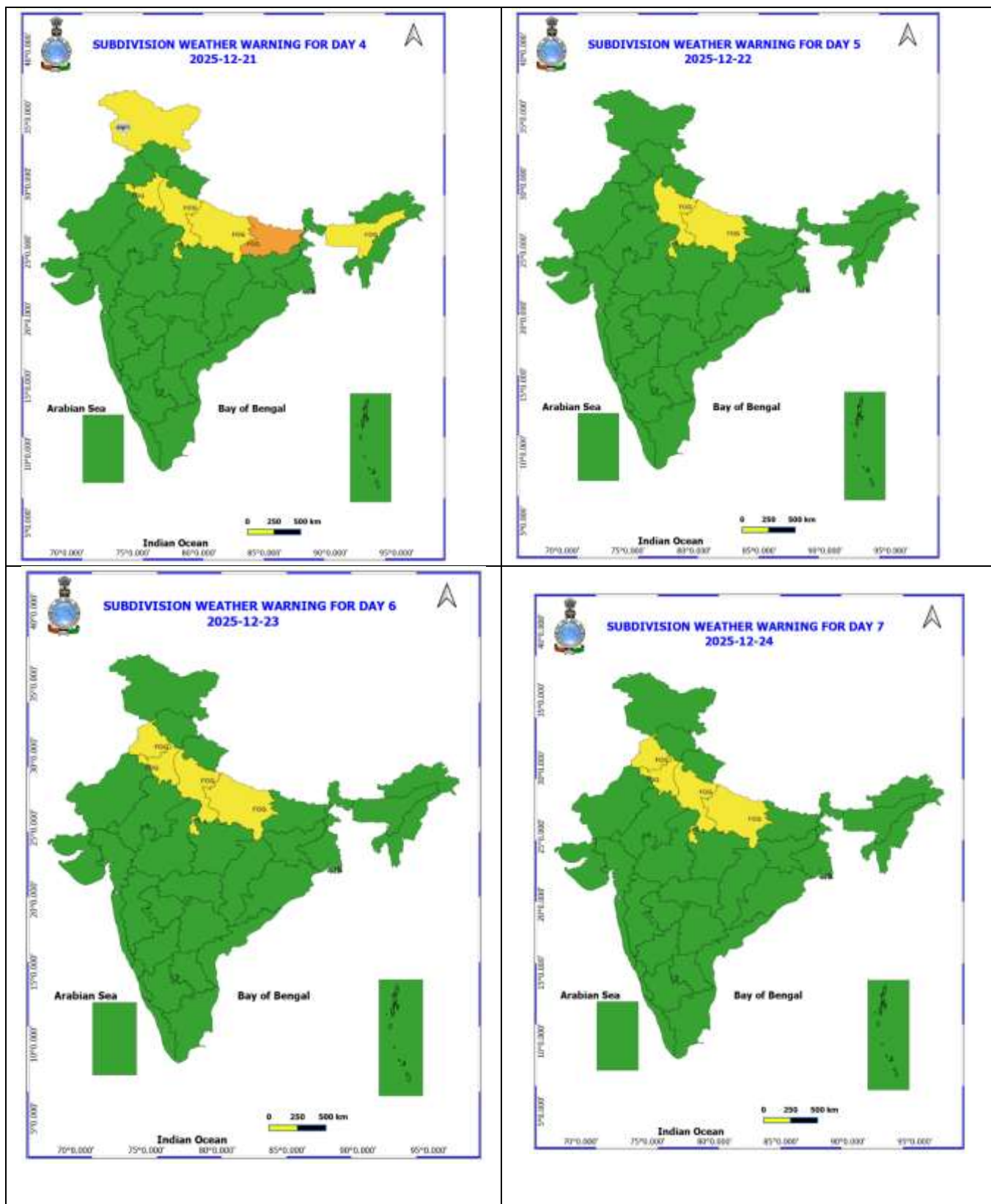
Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **Tamil Nadu:** Nalumukku (dist Tirunelveli), Oothu (dist Tirunelveli) 14 each, Kakkachi (dist Tirunelveli) 12, Manjolai (dist Tirunelveli) 11, R.S.Mangalam (dist Ramanathapuram) 6, Paramakudi (dist Ramanathapuram), Ramanathapuram (dist Ramanathapuram), Ilayangudi (dist Sivagangai) 4 each.

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	18- Dec	19- Dec	20- Dec	21- Dec	22- Dec	23- Dec	24- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	ISOL	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	DRY	ISOL	ISOL	ISOL	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	SCT	SCT	ISOL	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	ISOL	FWS	ISOL	SCT	ISOL	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	ISOL	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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
36	LAKSHADWEEP	SCT	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 18th December to 21st December 2025**Past Weather:**

There has been fall in minimum temperature by 1-3°C and no large change in maximum temperature during the past 24 hours over Delhi. The maximum and minimum temperatures over Delhi were around 22 to 25°C and 07 to 10°C, respectively. The minimum temperatures are above normal (1.6 to 3.0°C) at isolated places and normal (-1.5 to 1.5°C) at most places over Delhi. The maximum temperatures were appreciably above normal (3.1 to 5.0) to above normal (1.6 to 3.0°C) at many places and normal (-1.5 to 1.5°C) at isolated places over Delhi. Safdarjung airport recorded the lowest visibility 100m from 0630 Hrs IST onwards on 18.12.2025. Palam airport recorded the lowest visibility 100m from 0630 Hrs IST to 0700 Hrs IST on 18.12.2025 which thereafter improved becoming 200m at 0730 Hrs IST onwards. Dense fog reported at Palam and Safdarjung during past 24 hour. Mainly clear sky conditions with predominant surface wind from the westerly directions, with a wind speed up to 18 kmph prevailed during the past 24 hours. Partly cloudy sky with dense fog, associated with calm wind reaching up to 05 kmph from the westerly direction prevailed over the region in the forenoon today.

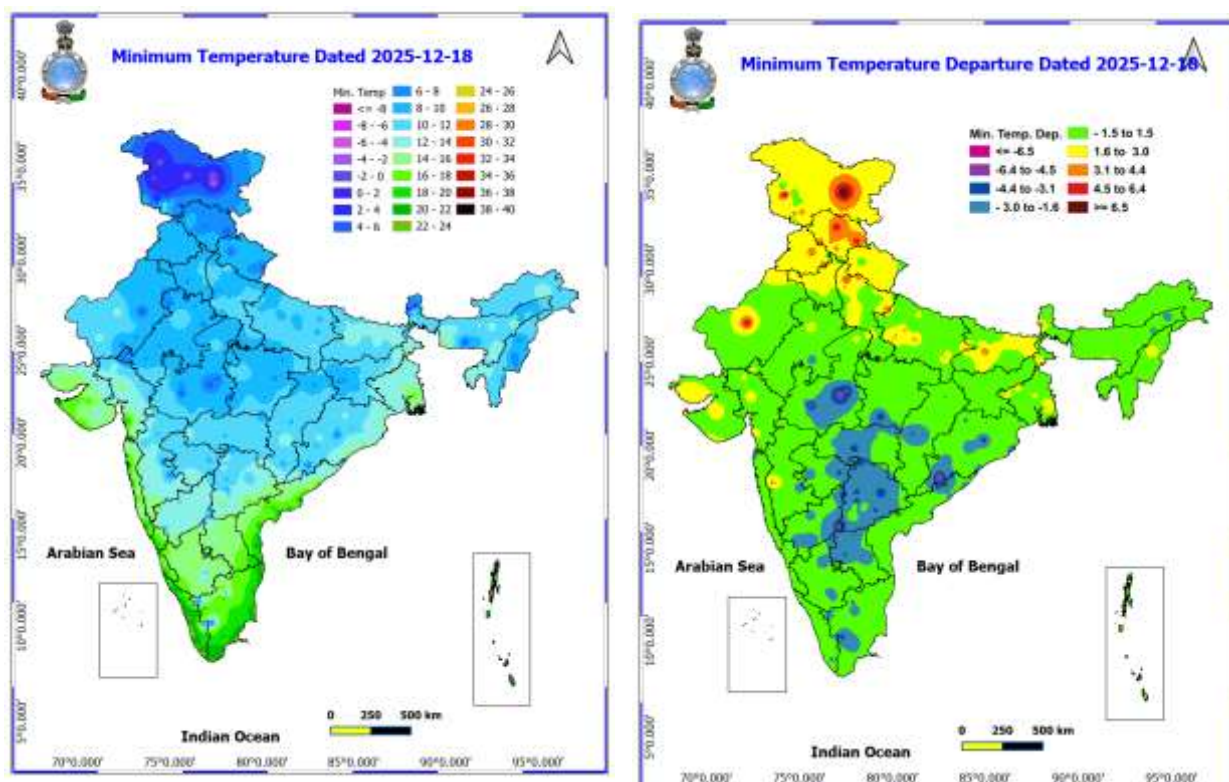
Weather Forecast:

18.12.2025: Partly cloudy sky. Moderate to dense fog during day. The maximum temperatures are likely to be in the range of 19 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 speed up to 10 kmph during the afternoon hours. The wind speed will decrease becoming less than 08 kmph from the northwest direction during evening and night.

19.12.2025: Partly cloudy sky. Moderate fog at many places with dense fog at few places during morning hours. Smog/Shallow fog during evening/night. The maximum and minimum temperatures over Delhi are likely to be in the range of 21 to 23°C and 08 to 10°C respectively. The minimum temperatures will be above normal up to 2°C and the maximum temperatures will be above normal up to 1°C over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed up to 10 kmph during the morning hours. The wind speed will increase becoming up to 15 kmph from the west direction in the afternoon. The wind speed will decrease, becoming less than 05 kmph from the west direction during evening and night.

20.12.2025: Partly cloudy sky. Shallow fog at many places with moderate fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 22 to 24°C and 07 to 09°C respectively. The minimum temperatures will be near normal and the maximum temperatures will be above normal up to 2°C over Delhi. The predominant surface wind is likely to be from the west direction with wind speed up to 10 kmph during morning hours. The wind speed is likely to be from the northwest direction with wind speed up to 10 kmph during afternoon. The wind speed will decrease, becoming less than 05 kmph from the southeast direction during evening and night.

21.12.2025: Partly cloudy sky. Moderate fog at many places with dense fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 23°C to 25°C and 09°C to 11°C, respectively. The minimum temperatures will be above normal (0.9 to 2.9°C) and the maximum temperatures will be above normal (0.8 to 2.8°C) over Delhi. The predominant surface wind is likely to be from the southeast direction with wind speed associated with calm wind reaching up to 05 kmph during the morning hours. The wind speed will remain same up to 05 kmph from the northeast direction in the afternoon. The wind speed will be less than 05 kmph from the northeast direction during evening and night.



Impact expected due to Cold Wave conditions likely to prevail at isolated places over West Madhya Pradesh on 18th 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 early hours/morning hours: likely to prevail during early hours/morning hours in isolated over Uttar Pradesh, Haryana during 19th-21st, over Punjab, Uttarakhand & Bihar on 19th & 20th December and dense fog thereafter for subsequent 2-3 days; over Northeast India during 19th -21st, Himachal Pradesh during 19th-20th, Odisha and Jharkhand during 18th-20th 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/Severe Cold day conditions very likely over isolated places over Uttar Pradesh, Uttarakhand on 19th & 20th 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, 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 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)



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.

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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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