



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 30th December, 2025
Time of Issue: 1400 hours IST

Subject: (i) Under the influence of Western Disturbance, heavy rain/snow very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 30th December-01st January.
(ii) Dense to Very dense fog conditions likely to continue during night/morning hours over Punjab, Haryana Chandigarh and West Uttar Pradesh till 31st Dec; East Uttar Pradesh till 01st Jan 2026 with reduction thereafter.
(iii) Cold day to Severe cold day conditions very likely at some pockets over east Uttar Pradesh till 30st Dec, Bihar 30 and 31st Dec

Realised weather during past 24 hours ending at 0830 hours IST of today, the 30th December, 2025:

- ❖ **Dense to very Dense fog (visibility <50 m) conditions** prevailed in some parts of Odisha, Punjab, Haryana, Chandigarh, Uttar Pradesh and West Madhya Pradesh **dense fog (visibility 50-199 m):** prevailed in isolated pockets of Himachal Pradesh, Uttarakhand and East Madhya Pradesh.
- ❖ **Visibility in meter reported (≤ 200 m): Himachal Pradesh:** Bilaspur(50 M), Mandi(70 M); **Uttarakhand:** Lakhsar (30 M), Khatima (75 M), Jollygrant (200 M), Pantnagar(200 M); **Punjab:** Amritsar(0 M), Adampur(0 M), Halwara(0 M), Gurdaspur(10 M), Ludhiana(10 M), Pathankot(0 M), Patiala (20 M), Bathinda(40 M), Ballawal Saunkri (20-30 M); **Haryana & Chandigarh:** Chandigarh (40 M), Hisar(10 M), Ambala(05 M), Rohtak, Bhiwani; **West Uttar Pradesh:** Hindon(IAF), Saharanpur IAF & Agra IAF-(0M), Hamirpur-(20M), AMS Aligarh, Jhansi & Orai-(50M) Each, Agra Taj-(60M), Ams Moradabad, Najibabad & Meerut-(100M) Each; **East Uttar Pradesh:** Prayagraj(IAF)-(0M), Prayagraj-(10M), Varanasi(AP), Fatehpur, Fursatganj & Banda-(50M) Each, Hardoi-(60M), Churk-(100M); **West Madhya Pradesh:** Gwalior-(0M) -- Datia - (50M); **East Madhya Pradesh:** Khajuraho & Rewa- (50M) Dense Fog; **Odisha:** Nayagarh (40M), Rourkela (50M)
- ❖ **Cold day to severe cold day conditions** prevailed at some parts over Bihar, West Madhya Pradesh and east Uttar Pradesh with markedly below normal day temperature at many places over Bihar and some places over East Uttar Pradesh and West Madhya Pradesh and **cold day conditions prevailed** at isolated pockets of West Uttar Pradesh.
- ❖ **Cold wave conditions** observed at isolated places over Uttarakhand, Odisha, Madhya Pradesh, Vidarbha and Chhattisgarh
- ❖ **Heavy rainfall observed at** isolated places over Andaman & Nicobar Islands

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

- ❖ An **Western Disturbance** as a trough in middle tropospheric westerlies with its axis in middle tropospheric level roughly along Long. 54°E to the north of Lat. 30°N persists.
- ❖ **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 Delhi.
- ❖ A trough now runs in easterlies south of Lat. 10°N along Long. 85°E over the southeast Bay of Bengal in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over north Kerala & neighbourhood between lower and middle tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over Northeast Assam in middle tropospheric level.

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

- ❖ **Isolated to widespread** heavy rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 30th December-01st January and Isolated to scattered light/moderate rainfall/snowfall over Himachal Pradesh and Uttarakhand during 30th December-02nd January.
- ❖ **Isolated** light to moderate rainfall likely over Punjab Haryana-Chandigarh and on 31st & 01st Jan; West Rajasthan on 31st.
- ❖ **Isolated Thunderstorm and lightning** with gusty wind speed (30-40kmph) likely to prevail over Andaman & Nicobar Islands during 30th December-01st Jan 2026.

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

- ❖ **Minimum temperatures were below 4°C** at many places over Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Himachal Pradesh; **in the range of 4°-10°C** at many places over Uttarakhand, Madhya Pradesh, north Rajasthan, at a few places over Odisha, Uttar Pradesh, Marathawada, Gangetic West Bengal and Chhattisgarh; at isolated places over Meghalaya, Vidarbha, Marathawada, Kerala & Mahe Coastal Andhra Pradesh & Yanam, Telangana and Sub-Himalayan West Bengal & Sikkim.
- ❖ Minimum Temperatures departures were **appreciably below normal** (-5.0°C to -3.1°C) at isolated places over Central parts of East Madhya Pradesh; isolated in North Interior Odisha, Chhattisgarh, Gangetic West Bengal, Jharkhand North Interior Karnataka and Telangana. ([refer to ANNEXURE IV](#))
- ❖ The **lowest minimum temperature** of 3.0°C was observed over **Nowgong (East Madhya Pradesh)** over the plains of India.

Forecast of minimum temperatures:

- ❖ Gradual rise in minimum temperature over northwest India by 3-4°C during next 2 days and thereafter fall by 3-4°C for subsequent 3 days and thereafter no significant change.
- ❖ Gradual rise in minimum temperature very likely over Central India by 2-3°C during next 3 days and thereafter no significant change.
- ❖ No significant change in minimum temperature likely over East India for next 24 hours thereafter gradual rise by 2-3°C for subsequent 3 days and no significant change thereafter.
- ❖ No significant change in minimum temperature likely over Maharashtra for next 24 hours and thereafter fall by 2-3°C for subsequent 3 days and thereafter rise over south Maharashtra by 2-3°C for subsequent 4 days.
- ❖ No significant change in minimum temperature likely over Gujarat for next 48 hours and thereafter fall by 2-3°C for subsequent 2 days and thereafter rise by 2-3°C for subsequent 5 days.
- ❖ No significant change in minimum temperature likely over remaining parts of the country during next 7days.

Dense Fog, Cold wave & Cold day Warnings:

- ❖ **Dense to Very dense** fog conditions very likely to continue during night/morning hours over Punjab, Haryana, Chandigarh and west Uttar Pradesh till 01st Jan; East Uttar Pradesh and Odisha till 02nd January 2026.
- ❖ **Dense fog** conditions also likely during night/morning hours at isolated pockets over Himachal Pradesh till 31st Dec; Uttarakhand till 04th Jan; over Punjab, Haryana Chandigarh, west Uttar Pradesh during 01st-06th Jan; east Uttar Pradesh during 02nd-06th; Rajasthan during 01st-04th Jan; Madhya Pradesh till 31st Dec; Sub-Himalayan West Bengal & Sikkim till 03rd Jan; Gangetic West Bengal during 31stDec – 03rd Jan; Bihar till 05th Jan; Jharkhand till 31st Dec; Odisha during 02nd-04th; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura till 04th January 2026.
- ❖ **Cold day to Severe cold day** conditions very likely at some pockets over Uttar Pradesh on 30th Dec and Bihar on 30th & 31st Dec and **Cold day conditions** very likely at isolated pockets over Himachal Pradesh on 31st Dec & 01st Jan; Uttarakhand on 30th; Bihar during 01st-04th Jan; Jharkhand on 30th; Madhya Pradesh on 30th Dec; West Uttar Pradesh on 30th and East Uttar Pradesh during 30th-31st December 2025.
- ❖ **Cold wave** conditions very likely in isolated pockets of East Madhya Pradesh, Jharkhand and Chhattisgarh till 31st; West Rajasthan on 02nd & 03rd and Himachal Pradesh during 31st Dec -03rd; Telangana and North Interior Karnataka till 01st January 2026.

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 30th December to 04th January, 2026:

- ❖ **Bay of Bengal:** Over Gulf of Mannar & adjoining, some parts of Comorin area & central parts of south Bay of Bengal during on 02nd & 3rd January 2026; along and Somalia coast during 01st to 03rd January 2026; along and off north Oman coast on 31st December 2025.

Weather conditions and forecast over Delhi/NCR during 30th December-02nd January, 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 amount of rainfall observed (in cm):

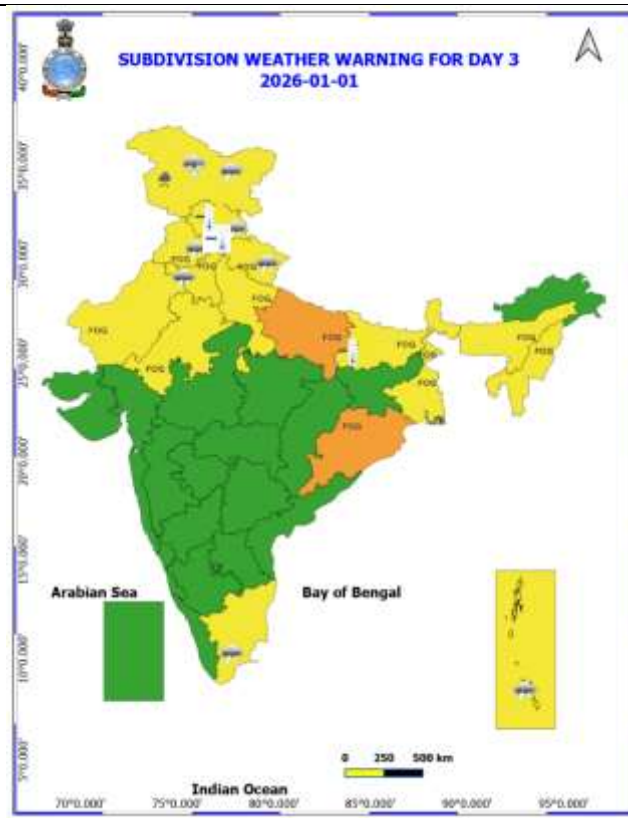
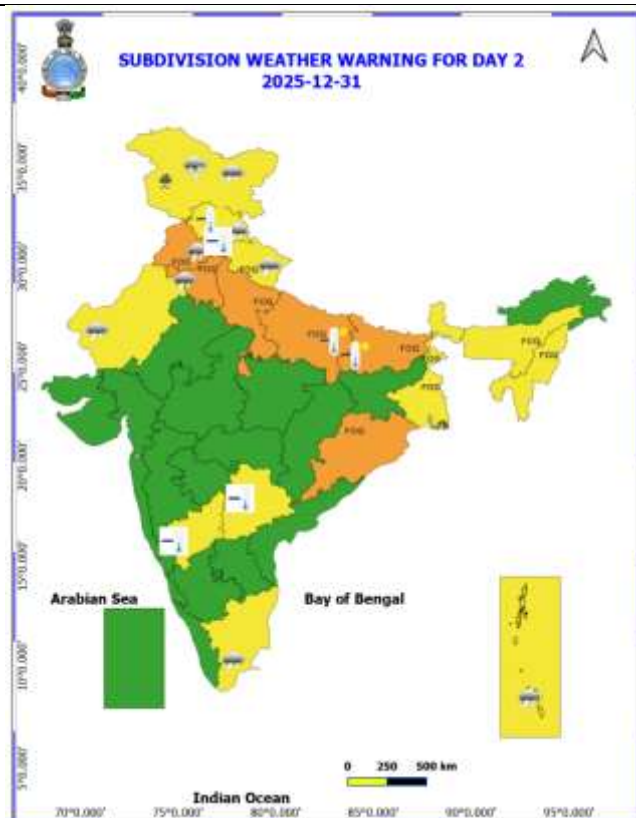
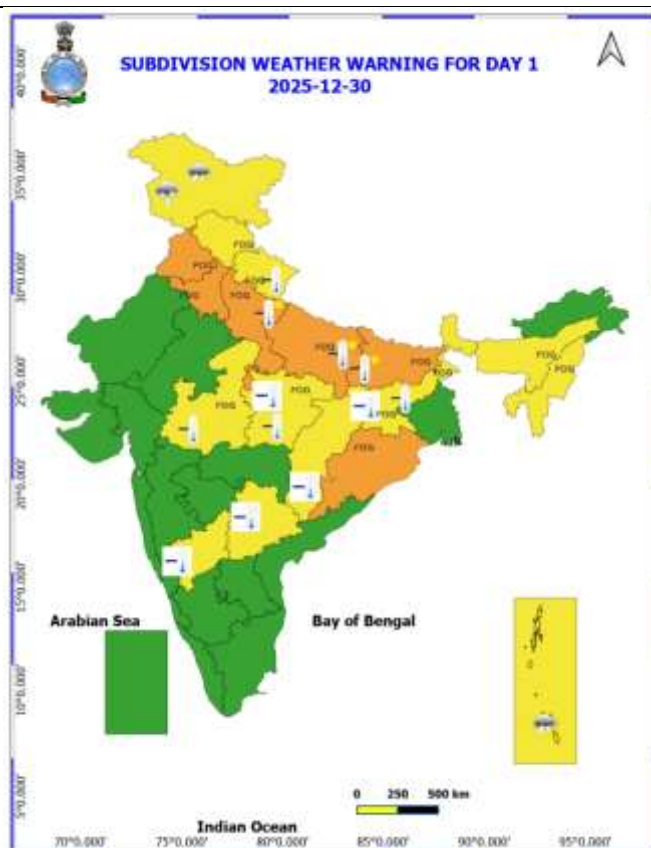
Andaman & Nicobar Islands: Carnicobar – 9.6

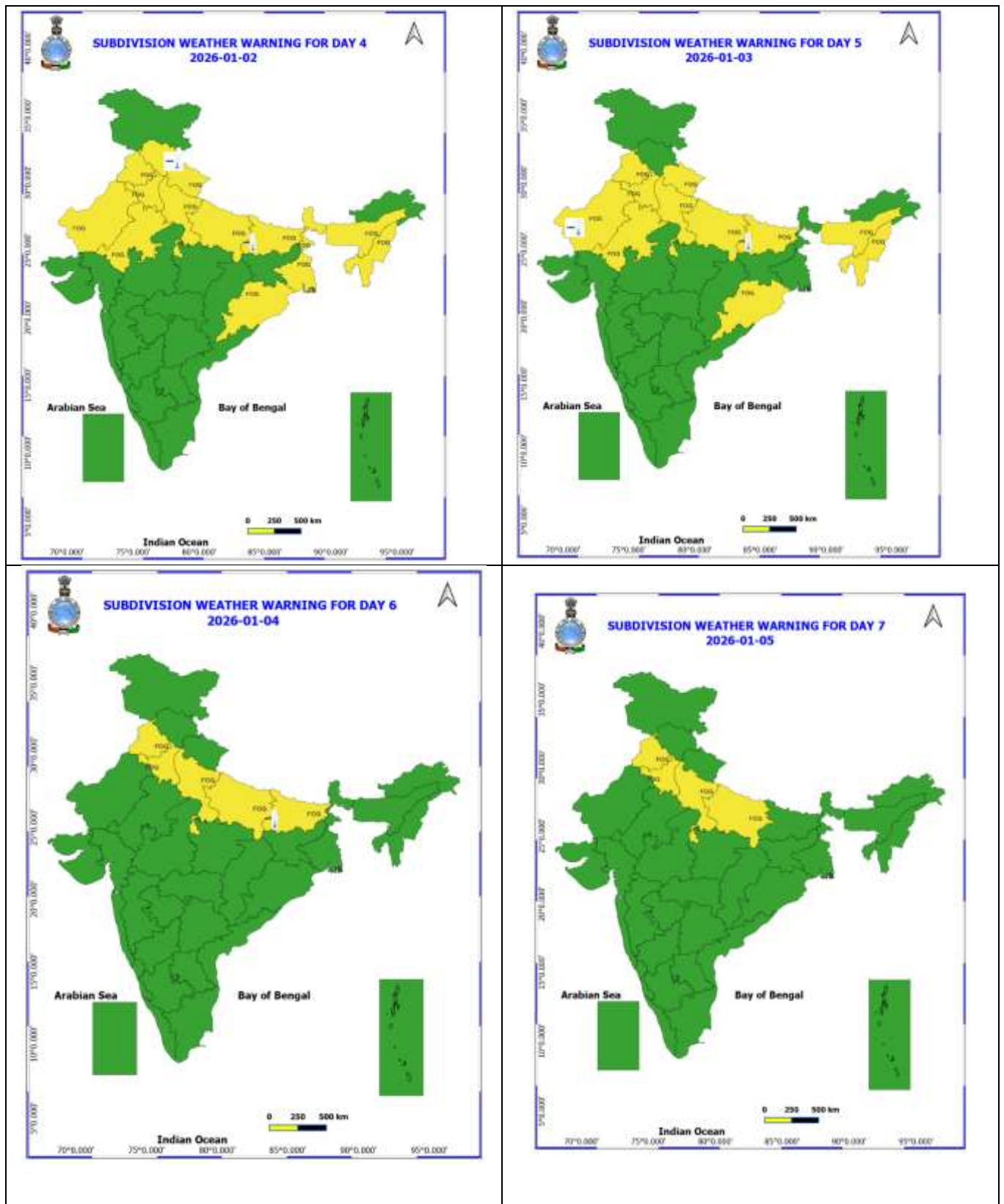
ANNEXURE I

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	30- Dec	31- Dec	1- Jan	2- Jan	3- Jan	4- Jan	5- Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
2	ARUNACHAL PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
3	ASSAM & MEHGHALAYA	ISOL	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	ISOL	SCT	ISOL	ISOL	ISOL
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	ISOL	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
13	HARYANA, CHANDIGARH & DELHI	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	FWS	FWS	ISOL	DRY	DRY	ISOL
16	JAMMU AND KASHMIR AND LADAKH	FWS	FWS	FWS	ISOL	ISOL	ISOL	SCT
17	WEST RAJASTHAN	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	ISOL	ISOL	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	ISOL	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
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	ISOL	ISOL	DRY	DRY	DRY	DRY
35	KERALA AND MAHE	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
36	LAKSHADWEEP	DRY	SCT	SCT	SCT	SCT	DRY	DRY

- As the lead period increases forecast accuracy decrease

ANNEXURE II





- 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 30th December- 02nd January 2025**Past Weather:**

There has been no large change in minimum temperature and a fall in maximum temperatures by about 1-3°C during the past 24 hours over Delhi. The maximum and minimum temperatures over Delhi were around 18°C to 20°C and 08°C to 10°C, respectively. The minimum temperatures are appreciably above normal (3.1 to 5.0°C) at isolated places & above normal (1.6 to 3.0°C) at a few places and normal (-1.5°C to 1.5°C) over remaining places of Delhi. The maximum temperatures were below normal (-1.6 to -3.0°C) at a few places and normal (-1.5°C to 1.5°C) over remaining places of Delhi. Safdarjung reported lowest visibility 050m from 1230 to 0230 IST, which thereafter improved to 150m at 0310 IST of today, 30.12.2025. Palam reported lowest visibility 050m from 1200 to 0200 IST, which thereafter improved to 100m at 0230 IST of today, 30.12.2025. Mainly clear sky with moderate to dense fog, predominant surface wind from the westerly direction with a wind speed up to 10kmph prevailed during the past 24 hours. Partly cloudy sky. Shallow to moderate fog till forenoon and wind reaching up to 05 kmph from the west-northwest direction prevailed over the region in the forenoon today.

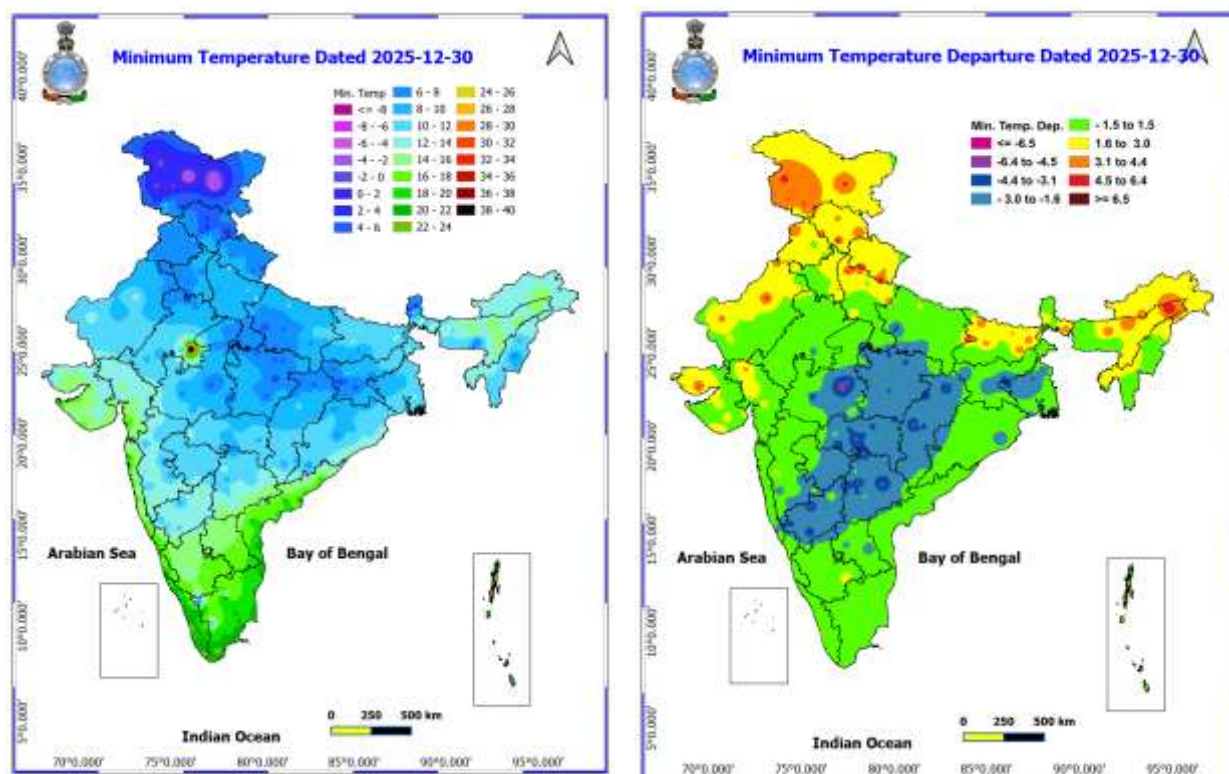
Weather Forecast:

30.12.2025: Partly cloudy sky. Moderate to dense fog during night/ early hours. The maximum temperatures are likely to be in the range of 20°C to 22°C. Maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the west-northwest direction with wind speeds less than 15kmph during the afternoon hours. The wind speed will decrease, becoming less than 05 kmph from the west direction during the evening and night.

31.12.2025: Partly cloudy sky. Moderate fog at many places with dense fog at few places during the morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 21°C to 23°C and 7°C to 9°C, respectively. The minimum temperature will be above normal (0.2°C to 2.2°C) and the maximum temperatures will be above normal (0.6°C to 2.6°C) over Delhi. The predominant surface wind is likely to be from the west direction with wind speed less than 05kmph during the morning hours. The wind speed will increase becoming less than 10kmph from the northwest direction in the afternoon hours. The wind speed will decrease becoming less than 05kmph from the northeast direction during evening and night.

01.01.2025: Partly cloudy sky. Possibility of very light to light rain at isolated places. Shallow to moderate fog during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 18°C to 20°C and 10°C to 12°C, respectively. The minimum temperatures will be above normal (3.1°C to 5.1°C) and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the northeast direction with wind speeds less than 05kmph during the morning hours. The wind speed will increase becoming 10kmph from the northwest direction in the afternoon. The wind speed will remain same with north-northwesterly direction during the evening/night.

02.01.2026: Partly cloudy sky. Moderate fog during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 18°C to 20°C and 10°C to 12°C, respectively. The minimum temperatures will be above normal (3.1°C to 5.1°C) 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 gradually increasing reaching up to 10kmph during the morning hours. The wind speed will remain same from the northwest direction in the afternoon and wind speed will remain same from the northwest direction during the evening/night.



Impact expected due to dense/very dense fog in the night/morning hours:

- ❖ **Dense to Very dense** fog conditions very likely to continue during night/morning hours over Punjab, Haryana, Chandigarh and west Uttar Pradesh till 01st Jan; East Uttar Pradesh and Odisha till 02nd January 2026.
- ❖ **Dense fog** conditions also likely during night/morning hours at isolated pockets over Himachal Pradesh till 31st Dec; Uttarakhand till 04th Jan; over Punjab, Haryana Chandigarh , west Uttar Pradesh during 01st -06th Jan; east Uttar Pradesh during 02nd -06th; Rajasthan during 01st -04th Jan; Madhya Pradesh till 31st Dec; Sub-Himalayan West Bengal & Sikkim till 03rd Jan; Gangetic West Bengal during 31stDec – 03rd Jan; Bihar till 05th Jan; Jharkhand till 31st Dec; Odisha during 02nd -04th; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura till 04th January 2026.

❖ 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 Wave conditions: very likely in isolated pockets of East Madhya Pradesh, Jharkhand and Chhattisgarh till 31st; West Rajasthan on 02nd & 03rd and Himachal Pradesh during 31st Dec -03rd; Telangana and North Interior Karnataka till 01st January 2026.

- ❖ 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 Cold Day conditions:

- ❖ **Cold day to Severe cold day** conditions very likely at some pockets over Uttar Pradesh on 30th Dec and Bihar on 30th & 31st Dec and **Cold day conditions** very likely at isolated pockets over Himachal Pradesh on 31st Dec & 01st Jan; Uttarakhand on 30th; Bihar during 01st -04th Jan; Jharkhand on 30th; Madhya Pradesh on 30th Dec; West Uttar Pradesh on 30th and East Uttar Pradesh during 30th -31st December 2025.

- ❖ 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 **Himachal Pradesh, Madhya Pradesh, Chhattisgarh, Jharkhand, 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. 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°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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