



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 18th January 2026

Time of Issue: 1300 hours IST

Subject: (i) Two Western Disturbances in quick succession are likely to affect Western Himalayan region during next week with possibility of isolated heavy rainfall/snowfall on 23rd January.

(ii) Isolated to scattered rainfall likely over adjoining plains of northwest India during 22nd -24th January.

(iii) Dense to very dense fog conditions very likely to continue over northwest India and Bihar during next 2-3 days.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 18th January, 2026:

- ❖ **Dense to very Dense fog (visibility <50 m) conditions** prevailed in many parts of Punjab and Uttar Pradesh; in isolated parts of Haryana and Delhi, Gujarat Region and **dense fog (visibility 50-199 m)** conditions prevailed in isolated pockets of Bihar, West Uttar Pradesh, Saurashtra & Kutch and West Rajasthan.
- ❖ **Visibility reported (in meters ≤200 m): Bihar:** Gaya (50); **Punjab:** Amritsar (0); Patiala (20); Bathinda(40); Faridkot(15);Gurdaspur(100); Ludhiana (50); **Haryana:** Hisar(40); **Delhi-Safdarjung:** 00 and Palam 100; **West Uttar Pradesh:** AMS Moradabad, AMS Aligarh, Hindon(IAF) & Bareilly(IAF)(00) Each Meerut(10), Bareilly(20), Shahjahanpur & Aligarh (30) Each, Moradabad(50); **West Uttar Pradesh:** AMS Gorakhpur(IAF), Barabanki, Kanpur(IAF) & Azamgarh(00) Each, Fursatganj(10), Ballia & Bahraich(20) Each, Sultanpur & Fatehgarh(30) Each, Lucknow(AP), Hardoi, Kanpur(City), Varanasi(AP), Ayodhya(50) Each, Prayagraj(IAF)(100); **West Rajasthan:** Ganganagar (50); **Gujarat Region:** Surat (00); **Saurashtra & Kutch:** Hirasar (50).
- ❖ **Cold wave conditions** prevailed in isolated places over isolated places of East Uttar Pradesh and interior Odisha

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

- ❖ **Minimum temperatures** were **1-4°C** at most places over Himachal Pradesh; at some parts over Jammu & Kashmir and Ladakh; at isolated places over northwest Punjab and Uttarakhand; **5-9°C** at many places over remaining parts of Punjab, most parts of Haryana, Chandigarh & Delhi, Uttar Pradesh, southwest Bihar, north Rajasthan, north Madhya Pradesh, north Chhattisgarh, Jharkhand; at some parts of interior Odisha, Sikkim and at isolated pockets of Gangetic West Bengal. It is **10°C** and above for remaining parts of the country except higher reaches of Western Himalayan region where it was less than **0°C**.
- ❖ Minimum Temperatures were above normal by (2°C to 5°C) over Central India and adjoining western India and below normal (-2°C to -4°C) over some parts of Uttar Pradesh, Jharkhand, north Chhattisgarh, interior Odisha, Telangana and Rayalaseema and near normal over rest parts of the country. ([refer to ANNEXURE IV](#))
- ❖ The **lowest minimum temperature** of 1.7°C was observed at Amritsar (**Punjab**) over the plains of India.

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

- ❖ Conditions are becoming favourable for cessation of **Northeast monsoon** rains over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and adjoining areas of Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka during next 48 hours.
- ❖ A **Western Disturbance** as a cyclonic circulation lies over south Pakistan & neighbourhood lay over north Pakistan & neighbourhood in lower tropospheric level with the trough aloft in middle and upper tropospheric westerlies runs roughly along Long. 68°E to the north of Lat. 28°N.
- ❖ An **induced cyclonic circulation** lay over central Rajasthan & neighbourhood in lower tropospheric level.

- ❖ **Subtropical westerly Jet Stream** with core winds of the order of 135 knots at 12.6 km above mean sea level prevails over Northeast India.
- ❖ Two **Western disturbance** in quick succession is likely to affect Northwest India from 19th & 21st January, 2026 night.

Under the influence of above system, the following weather is likely:

- ❖ Isolated to scattered Light to moderate rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh during 18th -21st; and fairly widespread to widespread rainfall/snowfall during 22nd -24th with **isolated heavy falls** over Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and higher reaches of Himachal Pradesh on 23rd January.
- ❖ Isolated to scattered Light to moderate rainfall/snowfall also likely over Uttarakhand on 18th, 21st and 22nd and fairly widespread during 23rd-24th January.
- ❖ Isolated to scattered Light to moderate rainfall over Punjab, Haryana, Chandigarh, Uttar Pradesh and Rajasthan during 22nd -24th January.
- ❖ Thunderstorm activity likely over Uttarakhand on 23rd & 24th; Punjab, Haryana, Chandigarh, Delhi and Rajasthan on 22nd & 23rd January.

Forecast of minimum temperatures:

- ❖ No significant change in minimum temperatures likely over northwest India during next 4 days and thereafter rise by 3-5°C during subsequent 3 days.
- ❖ No significant change in minimum temperatures likely over Maharashtra during next 24 hours, rise by 2-4°C during subsequent 4 days and no significant change thereafter for next 2 days.
- ❖ Gradual rise in minimum temperatures by 2-3°C likely over Gujarat state and East India during next 3 days and thereafter no significant change for next 4 days.
- ❖ No significant change in minimum temperatures likely over Central India during next 4 days; gradual rise by 2-3°C during next 3 days.
- ❖ No significant change in minimum temperatures likely over rest parts of the country.

Dense Fog & Cold wave Warnings:

- ❖ **Dense to very dense fog** conditions very likely to prevail in morning/night hours in some parts over Uttar Pradesh till 19th and **Dense fog** in isolated pockets Uttar Pradesh till 20th January 2026.
- ❖ **Dense fog** conditions also likely during morning/night hours in isolated/some pockets over Punjab, Haryana Chandigarh and Bihar till 21st; West Rajasthan till 19th; Delhi & Sub-Himalayan West Bengal & Sikkim till 20th January.
- ❖ **Cold wave conditions** very likely in isolated pockets Himachal Pradesh during 19th -21st; Odisha on 19th January.

Weather conditions and forecast over Delhi/NCR during 18th -21st January, 2026 (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>

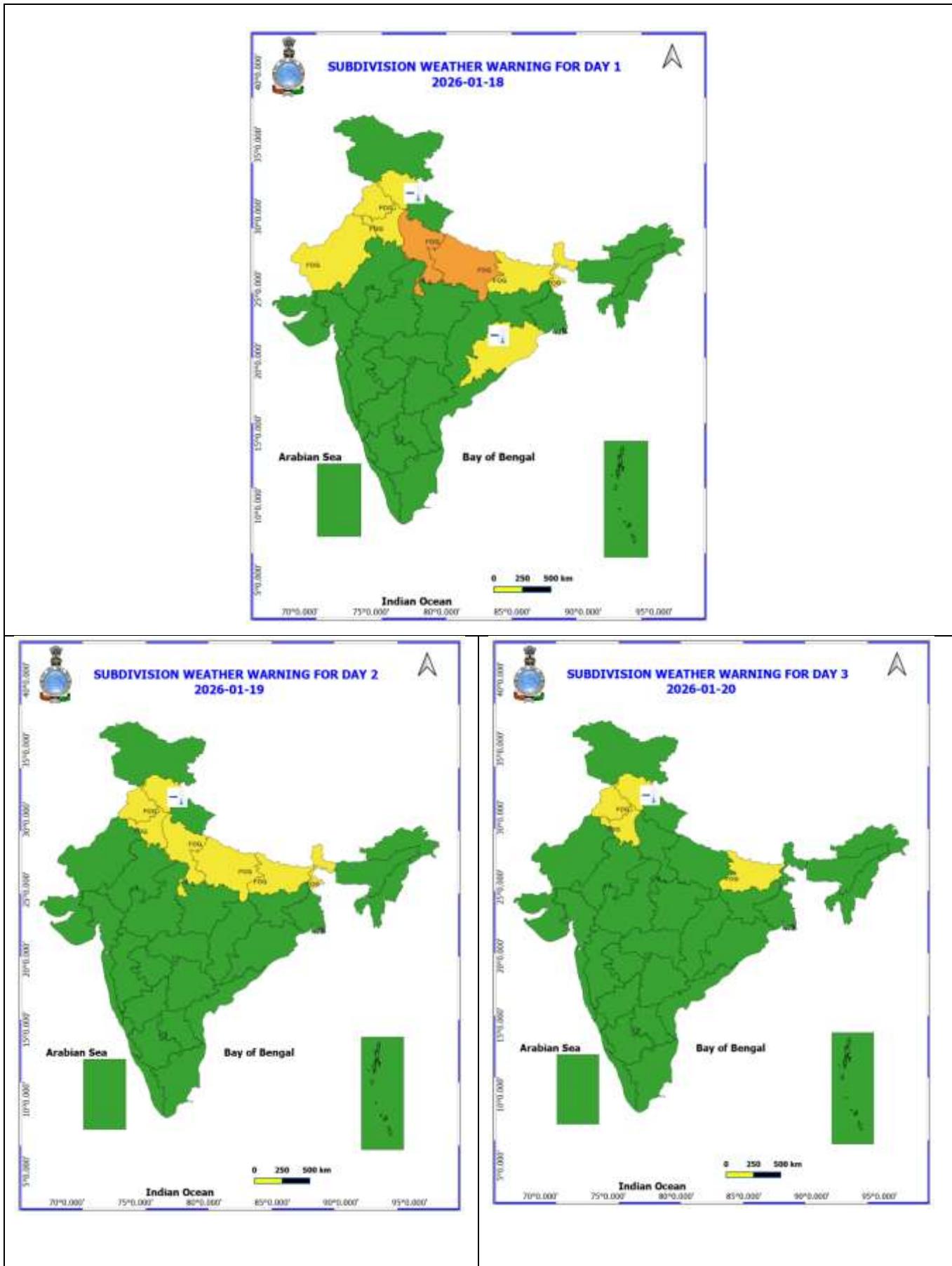
Fisherman Warning:

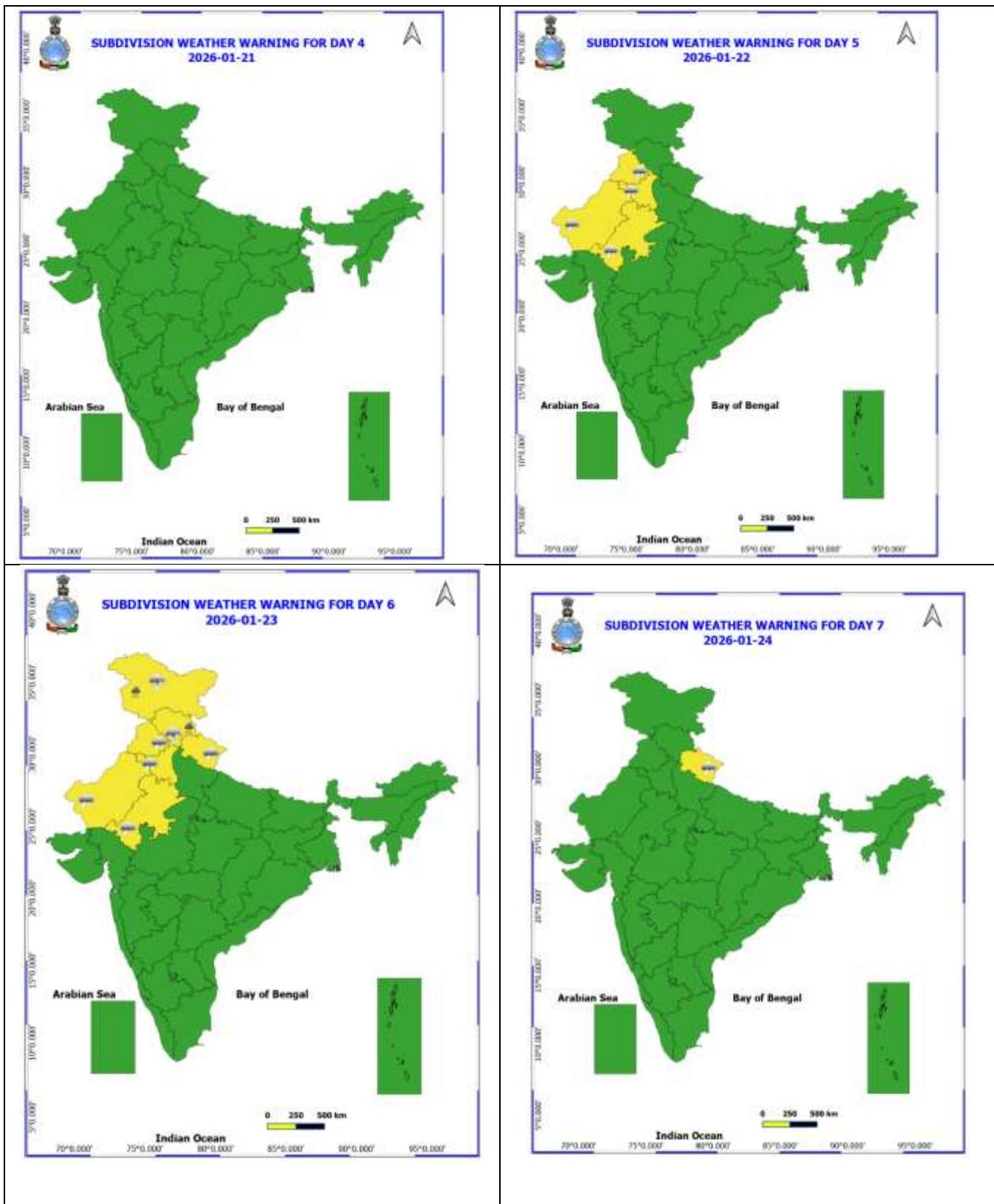
Fishermen are advised not to venture into the following areas during 18th January to 23rd January, 2026:

- ❖ **Bay of Bengal:** No Warning.
- ❖ **Arabian Sea:** Over Gulf of Mannar and some parts of Comorin area on 18th January, 2026.

S.No.	Subdivision	7 Days Rainfall Forecast							
		18- Jan	19- Jan	20- Jan	21- Jan	22- Jan	23- Jan	24- Jan	
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	
2	ARUNACHAL PRADESH	DRY	ISOL	ISOL	ISOL	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	DRY	DRY	DRY	DRY	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	ISOL	ISOL	
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	ISOL	SCT	ISOL	
12	UTTARAKHAND	ISOL	DRY	DRY	ISOL	ISOL	FWS	FWS	
13	HARYANA, CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	SCT	SCT	ISOL	
14	PUNJAB	DRY	DRY	DRY	DRY	SCT	SCT	ISOL	
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	DRY	SCT			
16	JAMMU AND KASHMIR AND LADAKH	ISOL	ISOL	ISOL	ISOL	FWS			
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL	
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL	
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
31	TAMILNADU & PUDUCHERRY	DRY	DRY	DRY	DRY	DRY	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	ISOL	
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 18th to 21st January 2026

Past Weather:

There has been rise in minimum temperature by about 1-2°C and rise in maximum temperatures by about 1-3°C during the past 24 hours over Delhi. The maximum and minimum temperatures over Delhi were around 22°C to 26°C and 05°C to 08°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 markedly above normal (5.0 or more) at few places, appreciably above normal (3.1 to 5.0) at isolated places and above normal (1.6 to 3.0°C) at a few places over Delhi. Safdarjung reported lowest visibility 00m from 0230 IST to 0830 IST, which thereafter improved to 100m at 0900 IST of today, 18.01.2026. Palam reported lowest visibility 100m from 0730 IST to 0800 IST, which thereafter improved to 300m at 0830 IST of today, 18.01.2026. Mainly clear sky with moderate to dense fog, predominant surface wind from the variable direction with a wind speed up to 10kmph prevailed during the past 24 hours. Partly cloudy sky with wind speed reaching up to 10 kmph from the east direction prevailed over the region in the forenoon today.

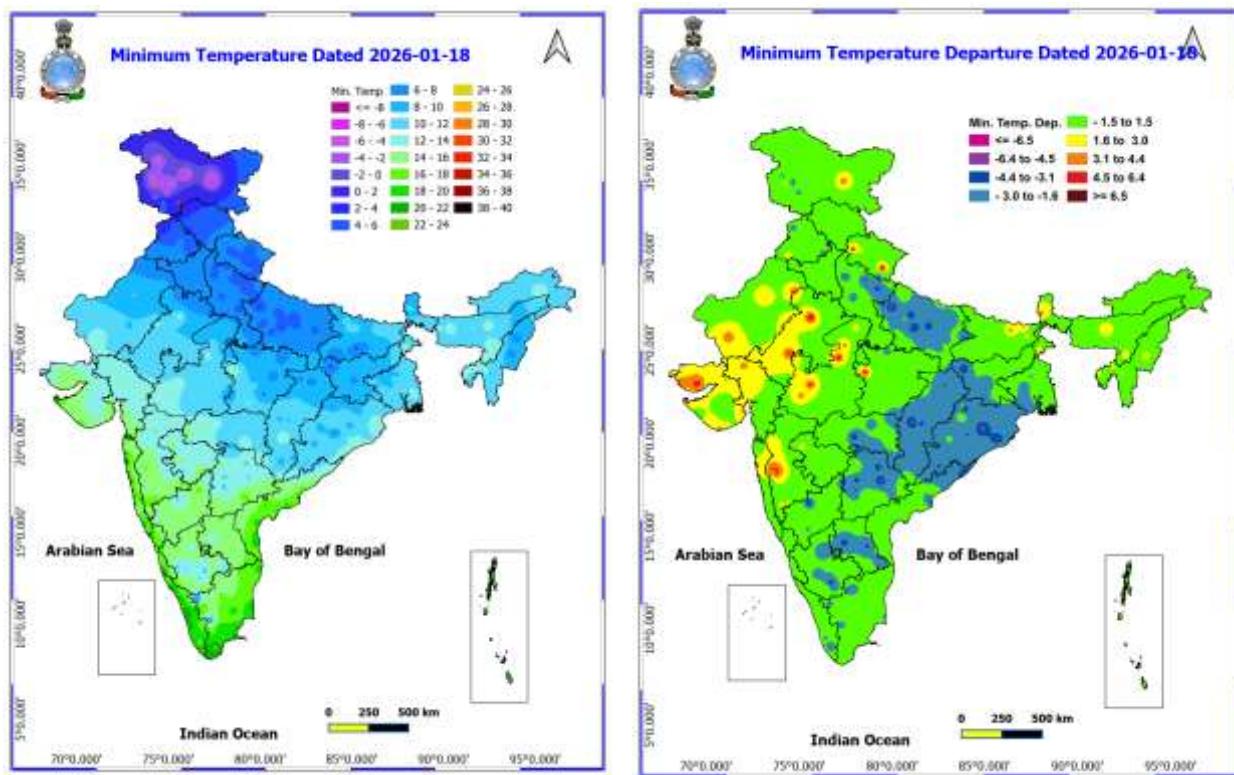
Weather Forecast:

18.01.2026: Partly cloudy sky. Mist during night. The maximum temperatures are likely to be in the range of 23°C to 25°C. Maximum temperatures will be appreciably above normal (3.1 to 5.0) over Delhi. The predominant surface wind is likely to be from the southeast direction with wind speeds less than 12kmph during the afternoon hours. The wind speed will gradually decrease and then reaching upto 05 kmph from the east direction during the evening and night.

19.01.2026: Partly cloudy sky. Moderate fog at many places with dense fog at isolated places during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 24°C to 26°C and 07°C to 09°C respectively. The minimum temperature will be near normal and the maximum temperatures will be appreciably above normal (3.1 to 5.0) over Delhi. The predominant surface wind is likely to be from the northeast direction associated with calm wind reaching up to 05 kmph during morning hours. The wind speed will increase up to 12kmph from the north direction in the afternoon hours. The wind speed will decrease becoming upto 08 kmph from the north direction during the evening and night.

20.01.2026: Partly cloudy sky. Shallow to moderate fog during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 23°C to 25°C and 06°C to 08°C respectively. The minimum temperatures will be near normal and the maximum temperatures will be appreciably above normal (3.1 to 5.0) over Delhi. The predominant surface wind is likely to northwest direction with wind speed reaching upto 10 kmph during the morning hours. The wind speed will then increase becoming 15 kmph from the northwest direction in the afternoon. The wind speed will decrease up to 08 kmph from northwest direction during the evening and night.

21.01.2026: Partly cloudy sky. Shallow to moderate fog during morning hours. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 23°C to 25°C and 05°C to 07°C respectively. The minimum temperatures will be below normal (-1.6°C to -3.0°C) and the maximum temperatures will be above normal (1.6°C to 3.0°C) over Delhi. The predominant surface wind is likely to northwest direction with wind speed reaching upto 10 kmph during the morning hours. The wind speed will then increase becoming 15 kmph from the northwest direction in the afternoon. The wind speed will decrease up to 08 kmph from northwest direction during the evening and night.



Reported minimum temperature ($\leq 5^{\circ}\text{C}$) at 0830 hrs IST of the 18th January 2026.

Station	State	Temperature
Amritsar	Punjab	1.7
Fursatganj	Uttar Pradesh	3.7
Meerut	Uttar Pradesh	4.0
Sultanpur	Uttar Pradesh	4.6
Daltonganj	Jharkhand	4.7
Shahjahanpur	Uttar Pradesh	5.0
Azamgarh	Uttar Pradesh	5.0

Impact expected due to dense/very dense fog in the morning hours: Dense to very dense fog conditions very likely to continue over northwest India and Bihar during next 2-3 days.

❖ **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/ Severe Cold wave conditions:

Cold wave conditions very likely in some/many parts of in isolated pockets Himachal Pradesh during 19th -21st; Odisha on 19th January.

- ❖ 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/ Ground Frost/ Low Temperatures

- In **Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Odisha, East Madhya Pradesh** and **Chhattisgarh**, apply light and frequent irrigation to the standing crops in the evening hours to protect crops from low temperature stress or cold injury. Use mulching and cover the vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

Livestock / Poultry

- Keep the cattle in 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

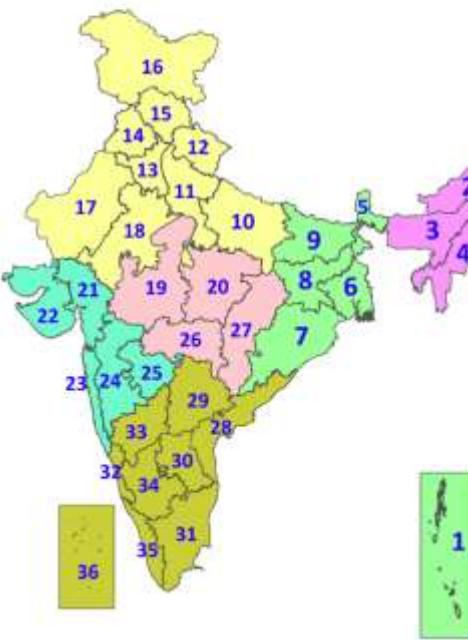
32. तटीय कर्नाटक

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

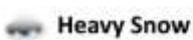
34. South Interior Karnataka

35. Kerala & Mahe

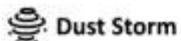
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

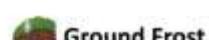
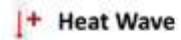
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)		
51-75	Fairly Widespread (FWS/Many Places)		
26-50	Scattered (SCT/A Few Places)		
1-25	Isolated (ISOL)		



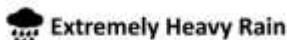
COLOUR CODED WARNING



No Warning (No Action)



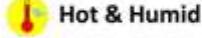
Watch (Be Aware)



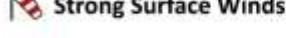
Alert (Be Prepared To Take Action)



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.

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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 *

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)

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