Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date:09th January 2026
Time of Issue: 1300 hours IST

Subject: (i) Deep Depression over southwest Bay of Bengal.
(ii) Dense fog conditions very likely to continue during morning hours over northwest India and Bihar during next 5-7 days and over isolated parts of central India, northeast India and Sub-Himalayan West Bengal & Sikkim during next 2-3 days.
(iii) Cold day conditions likely to prevail in isolated pockets over Rajasthan, Punjab, Haryana, Chandigarh, Bihar and Madhya Pradesh during next 2-3 days.
(iv) Cold wave conditions very likely in isolated pockets of Himachal Pradesh, Punjab, Haryana, Chandigarh, Odisha, North Interior Karnataka on 10th & 11th; Uttarakhand, Madhya Pradesh, Chhattisgarh, Jharkhand & Bihar on 10th and Rajasthan during 11th-14th January.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 09th January, 2026:

- **Dense to very Dense fog (visibility <50 m) conditions** prevailed in many parts of Uttar Pradesh; in isolated pockets over Uttarakhand, Punjab, Haryana, Bihar; **dense fog (visibility 50-199 m)** conditions prevailed in isolated pockets over Himachal Pradesh, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Madhya Pradesh, Assam and Tripura.
- **Visibility reported (in meters ≤200 m): Uttarakhand**: Pantnagar 0m, Kashipur 25m; **West Uttar Pradesh**: AMS Aligarh, Agra(IAF), Sarsawa(IAF) & Bareilly 0m Each, Hamirpur 20m, Aligarh 30m, Hindon, Jhansi, Muzaffarnagar & Agra(Taj) 50m Each, Meerut 100m; **East Uttar Pradesh:** AMS Chitrakoot, Gorakhpur(IAF), Prayagraj(IAF), Azamgarh & Kanpur(IAF) 0m Each, Prayagraj 20m, Fatehpur & Sultanpur 30m Each, Fatehgarh 40m, AMS Kushinagar, Fursatganj, Lucknow & Gorakhpur 50m Each, Basti 80m, Ayodhya 100m; **Haryana**: Ambala 05m; **Bihar**: Bhagalpur(0-49m), Gaya 50m; **Punjab**: Ballowal Saunkari 30m; **Assam:** Dibrugarh 50m; **Tripura**: Agartala 50m; **Himachal Pradesh**: Bilaspur 100m; **West Rajasthan:** Churu 150m; **Sub-Himalayan West Bengal:** Coochbehar 150m; **West Madhya Pradesh:** Datia, Guna, Gwalior; **East Madhya Pradesh**: Satna, Khajuraho.

- **Cold day to Severe cold day conditions** prevailed in some parts of East Uttar Pradesh, East Rajasthan; in isolated pockets of Bihar and **cold day conditions** prevailed over West Uttar Pradesh, Haryana, Punjab and West Rajasthan.
- **Severe cold Wave conditions** prevailed in isolated places over Himachal Pradesh, Odisha and **Cold wave conditions** prevailed over Jharkhand, Chhattisgarh and North Interior Karnataka.
- **Ground frost conditions** has been recorded in isolated pockets over Uttarakhand.

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

- Yesterday's **deep depression** over southwest Bay of Bengal and adjoining East Equatorial Indian Ocean moved nearly northwestwards and lay centred over southwest Bay of Bengal at 0830 hours IST of today, the 09th January, 2026, near latitude 7.4°N and longitude 83.2°E, about 160 km east-northeast of Pottuvil (Sri Lanka), 170 km east-southeast of Batticaloa (Sri Lanka), 250 km east-southeast of Trincomalee (Sri Lanka), 270 km east-northeast of Hambantota (Sri Lanka), 540 km southeast of Karaikal (Puducherry) and 710 km south-southeast of Chennai (Tamil Nadu). It is very likely to continue to move northwestwards and cross north Sri Lanka coast between Trincomalee and Jaffna around noon/afternoon of 10th January, 2026.

- The Western disturbance is seen as an upper air cyclonic circulation over north Pakistan & adjoining Punjab in lower tropospheric levels with a trough aloft in middle tropospheric westerlies runs roughly along Long. 71°E to the north of Lat. 30°N.
- An induced upper air **cyclonic circulation** lies over Haryana in lower tropospheric levels.
- **Subtropical westerly Jet Stream** with core winds of the order of 130 knots at 12.6 km above mean sea level continues to prevail over northwest India.
- An upper air **cyclonic circulation** lies over northeast Assam in lower tropospheric levels.
- An upper air **cyclonic circulation** lies over southeast Arabian sea & adjoining south Kerala coast in lower tropospheric levels.

Under the influence of Deep Depression over southwest Bay of Bengal, the following weather is likely:

- **Heavy to very rainfall** very likely at isolated places over Tamil Nadu on 9th & 10th and **heavy rainfall** at isolated places over the same region on 11th January, 2026.

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

- **Minimum temperatures** were **below 0°C** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Himachal Pradesh; **0-5°C** at isolated places over Uttarakhand, Delhi, north Madhya Pradesh; **5°-10°C** at many places over Uttar Pradesh, Rajasthan, rest parts of Madhya Pradesh, Bihar, West Bengal & Sikkim; at a few places over Haryana, Madhya Maharashtra; at isolated places over Odisha, Assam & Meghalaya, Saurashtra & Kutch, Chhattisgarh, Jharkhand and Telangana.
- Minimum Temperatures departures were markedly below normal(-5.0 °C or less)) at isolated places over Odisha; appreciably below normal (-5.0°C to -3.1°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttar Pradesh, West Madhya Pradesh, Saurashtra & Kutch, Chhattisgarh, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam; at a few places over Telangana; below normal (-3.0°C to -1.6°C) at isolated places over Uttarakhand, Haryana-Chandigarh-Delhi, East Rajasthan, East Madhya Pradesh, Jharkhand, Maharashtra, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe; at a few places over Lakshadweep.(**refer to ANNEXURE IV**)
- The **lowest minimum temperature** of 3.4°C was observed at **Aligarh (Uttar Pradesh)** over the plains of India.

Forecast of minimum temperatures:

- No significant change in minimum temperature likely over northwest India and east India during next 7 days.
- No significant change in minimum temperature likely over Central India & Maharashtra region during next 24 hours and gradual rise by 2-3°C during subsequent 4 days.
- No significant change in minimum temperature likely over Gujarat State during next 3 days and gradual rise by 2-3°C during subsequent 4 days.
- No significant change in minimum temperature likely over Northeast India during next 24 hours and gradual rise by 3-4°C during subsequent 4 days.

Dense Fog, Cold day & Cold wave Warnings:

- **Dense to very dense fog** conditions very likely to prevail in morning hours in isolated pockets over West Rajasthan till 11th and Dense fog in isolated pockets on 12th January 2026.
- **Dense to very dense fog** conditions very likely to prevail in morning hours in isolated parts over East Rajasthan till 11th January and Dense fog in isolated pockets on 12th & 13th January 2026.
- **Dense fog** conditions also likely during morning hours in isolated pockets over Jammu division, Himachal Pradesh, Uttarakhand till 14th; Punjab, Haryana, Chandigarh and Bihar till 16th January; West Uttar Pradesh on 10th & during 13th-16th; East Uttar Pradesh till 10th & on 15th & 16th; Madhya Pradesh, Sub-Himalayan West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura till 11th January.
- **Cold day conditions** likely to prevail in isolated parts over East Rajasthan & Bihar during 09th-11th; Punjab, Haryana, Chandigarh, West Rajasthan & Madhya Pradesh on 09th & 10th January.
- **Cold wave** conditions very likely in isolated pockets of Himachal Pradesh, Punjab, Haryana, Chandigarh, Odisha, North Interior Karnataka on 10th & 11th; Uttarakhand, Madhya Pradesh, Chhattisgarh, Jharkhand & Bihar on 10th and Rajasthan during 11th-14th January.

Ground Frost Warnings:

- **Ground frost conditions** very likely in isolated pockets over Uttarakhand during 09th-11th January, 2026.

Thunderstorms and Hailstorm Warnings:

- Isolated to scattered light rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Nicobar Islands on 09th January, 2026.
- Isolated **Hailstorm** activity likely over northwest Uttar Pradesh on 09th January, 2026.

Wind Warning:

(a) Southwest Bay of Bengal and adjoining areas of East Equatorial Indian Ocean:
Squally weather with wind speed reaching 55-65 gusting to 75 kmph is currently prevailing. It would continue to prevail till 9th evening. It would gradually decrease thereafter becoming 40-50 gusting to 60 kmph by 10th morning and 30-40 gusting to 50 kmph by 10th evening.

(b) Southeast Bay of Bengal:
Squally weather with wind speed reaching 40-50 gusting to 60 kmph over adjoining areas of southeast Bay of Bengal till evening of 9th January and gradually decrease thereafter.

(c) Along & off Sri Lanka coast, Gulf of Mannar and adjoining Comorin Area:
Squally weather with wind speed reaching 50-60 gusting to 70 kmph is prevailing over the region. It would gradually decrease becoming 40-50 gusting to 60 kmph by 10th morning.

(d) Along & off Tamilnadu - Puducherry coasts
Squally weather with wind speed reaching 40 – 50 gusting to 60 kmph is very likely to prevail till 10th evening. It would gradually decrease thereafter.

Squally weather with wind speed reaching 35-45 gusting to 55 kmph is very likely to prevail along and off North Tamil Nadu & Puducherry coasts on 9th & 10th January and decrease thereafter.

Sea Condition:

- Sea condition is very likely to be rough to very rough over southwest Bay of Bengal & adjoining areas of East Equatorial Indian Ocean, Gulf of Mannar & adjoining Comorin area and along & off Sri Lanka coast on 09th & 10th January and improve gradually thereafter.
- Sea condition is very likely to be Rough to very rough along & off Tamilnadu-Puducherry coasts on 09th & 10th January and improve gradually thereafter.
- Sea condition is very likely to be rough to moderate over southeast Bay of Bengal till evening of 9th January and improve gradually thereafter.

Fishermen Warning:

- Fishermen are advised not to venture into southwest Bay of Bengal & adjoining East Equatorial Indian Ocean, Gulf of Mannar and adjoining Comorin area and along & off Sri Lanka & Tamilnadu-Puducherry coasts on 09th and 10th.
- Fishermen are advised not to venture into adjoining areas of southeast Bay of Bengal till 9th January evening.

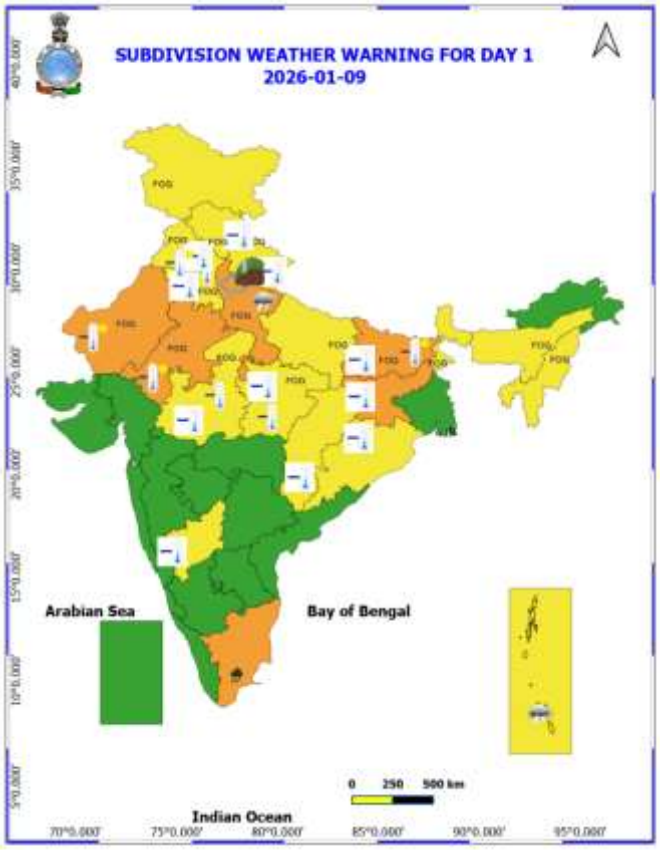
Weather conditions and forecast over Delhi/NCR during 09th -12th January, 2026 (ANNEXURE III) For more details, kindly refer National Weather Bulletin:
https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php
For District wise warnings refer: https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php
For Fishermen warning refer https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php

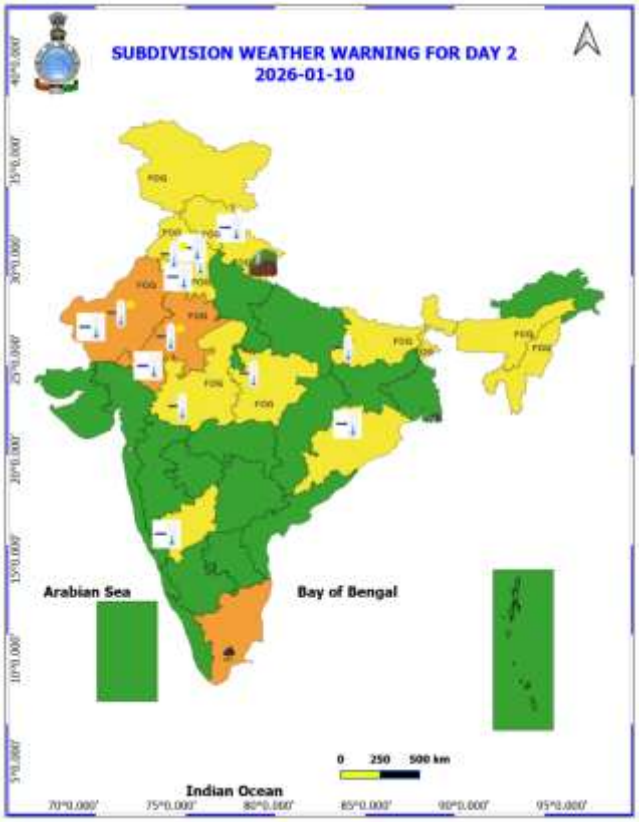
ANNEXURE I

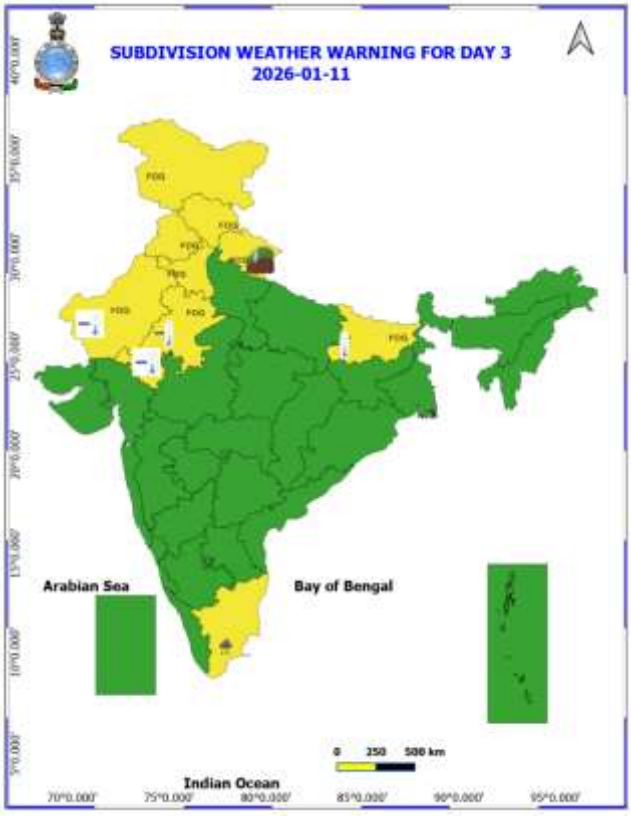
Table-1 7 Days Rainfall Forecast								
S.No.	Subdivision	9- Jan	10- Jan	11- Jan	12- Jan	13- Jan	14- Jan	15- Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	ISOL	DRY	DRY	DRY	ISOL	ISOL
2	ARUNACHAL PRADESH	DRY	DRY	ISOL	DRY	DRY	ISOL	ISOL
3	ASSAM & MEHGHALAYA	DRY	DRY	DRY	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	DRY	DRY	DRY	DRY	DRY
13	HARYANA, CHANDIGARH & DELHI	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	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	ISOL	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	ISOL	ISOL	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	ISOL	ISOL	ISOL	DRY	DRY	DRY
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	SCT	ISOL	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	SCT	SCT	SCT	SCT	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	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA AND MAHE	ISOL	ISOL	ISOL	SCT	ISOL	DRY	DRY
36	LAKSHADWEEP	DRY	DRY	SCT	SCT	SCT	DRY	DRY

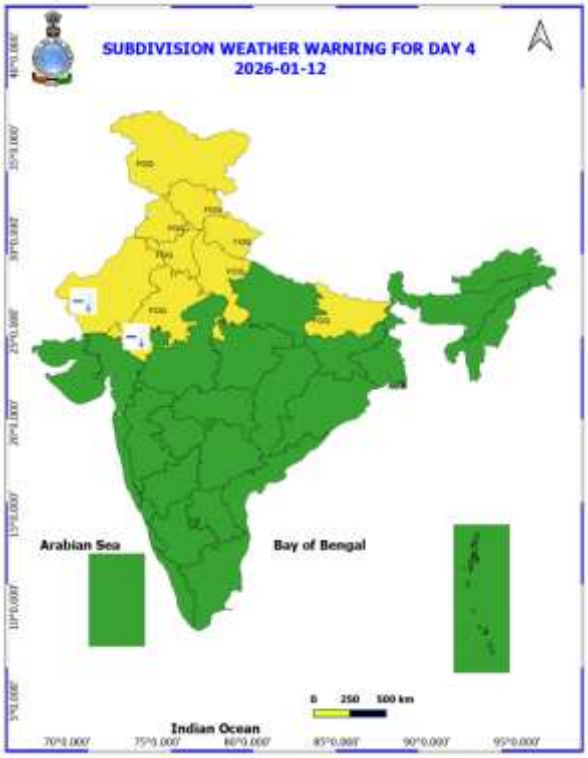
- **As the lead period increases forecast accuracy decrease.**

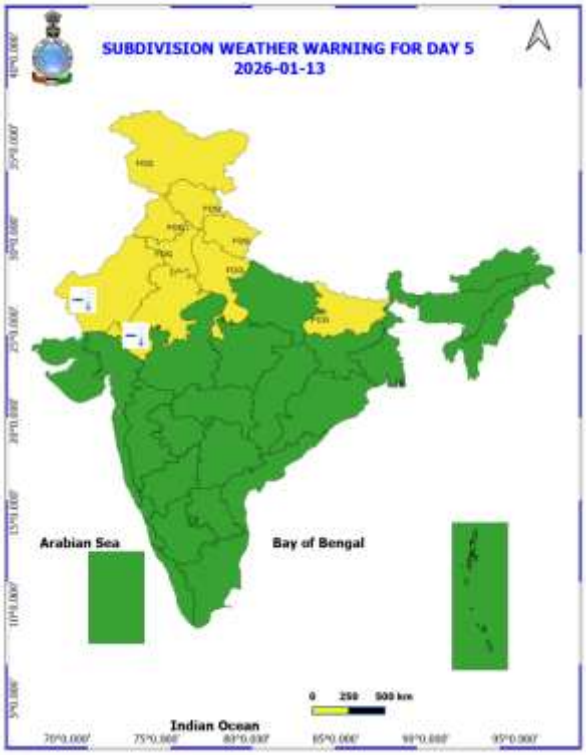
ANNEXURE II

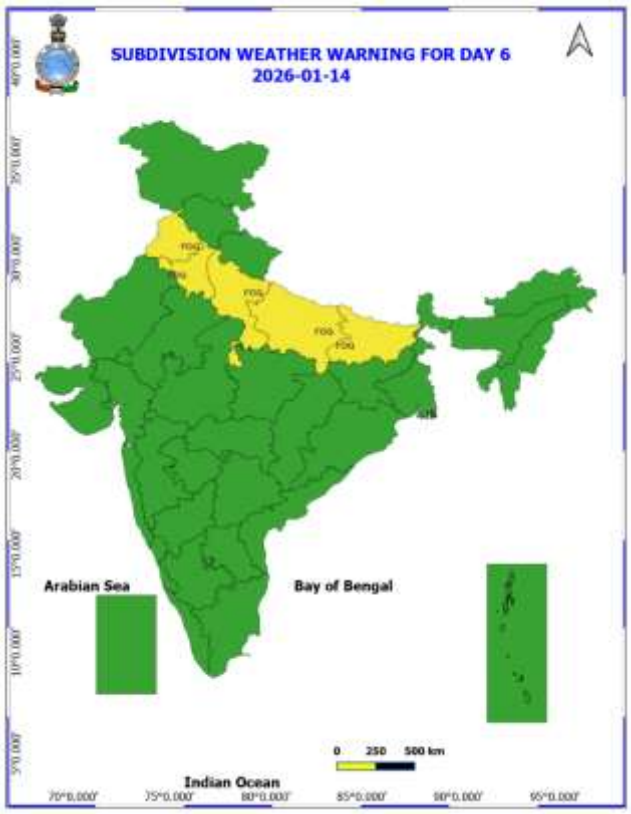

SUBDIVISION WEATHER WARNING FOR DAY 1
2026-01-09
FOG
Arabian Sea
Bay of Bengal
0 250 500 km
Indian Ocean

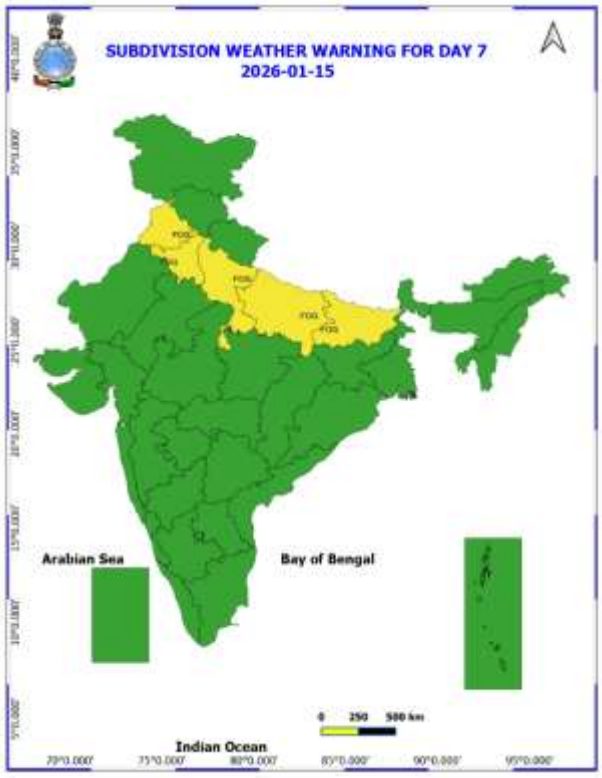

SUBDIVISION WEATHER WARNING FOR DAY 2
2026-01-10
FOG
Arabian Sea
Bay of Bengal
0 250 500 km
Indian Ocean


SUBDIVISION WEATHER WARNING FOR DAY 3
2026-01-11
FOG
Arabian Sea
Bay of Bengal
0 250 500 km
Indian Ocean









- **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.**

DetaileddistrictwiseMultiHazardweatherwarningfornextfivedaysavailableat
https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php

ANNEXURE III

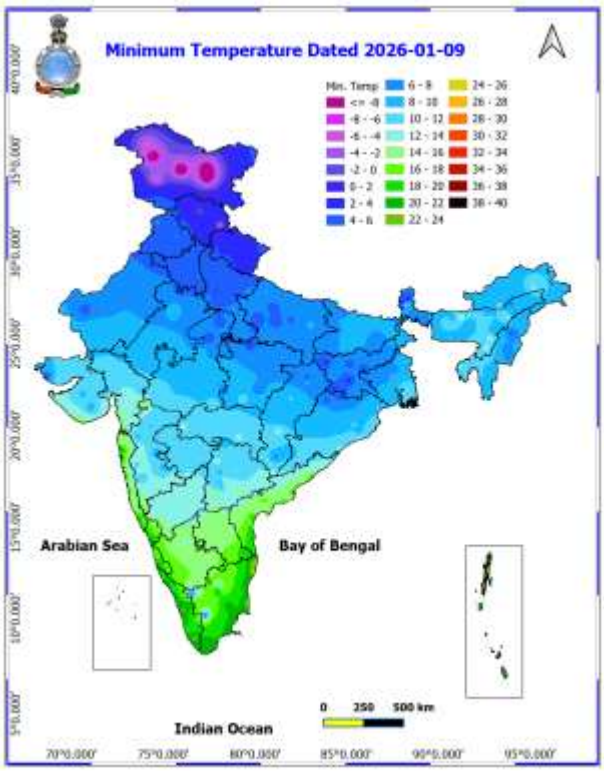
Weather forecast over Delhi/NCR during 09th to 12th January 2026

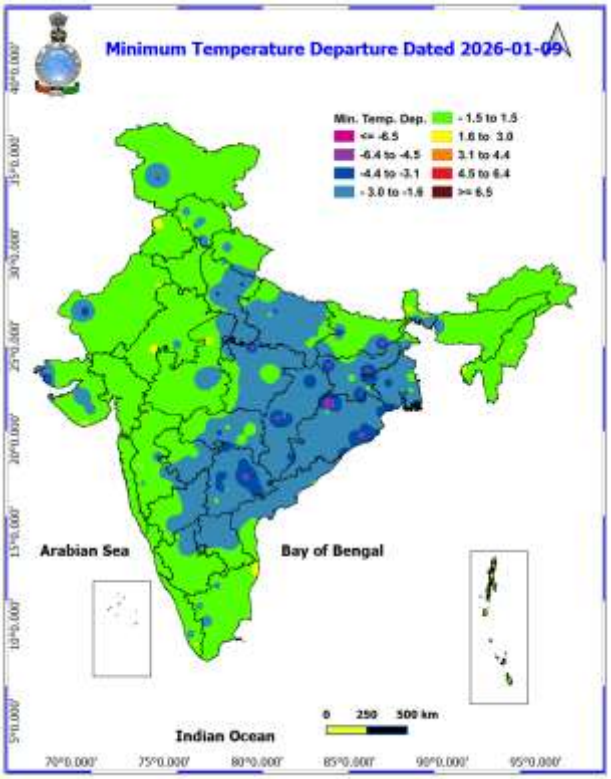
Past Weather:

There has been fall in the minimum temperature up to 1°C and rise in the maximum temperature up to 1°C during the past 24 hours over Delhi. The maximum temperatures over Delhi were around 15 to 17°C and the minimum temperatures are around 05°C, respectively. The minimum temperatures are below normal (-1.6 to -3.0°C) at isolated places and normal (-1.5 to 1.5°C) over remaining parts of Delhi. The maximum temperatures were appreciably below normal (-3.1 to -5.0) at a few places and normal (- 1.5°C to 1.5°C) over remaining parts of Delhi. Very light rain/drizzle occurred at few places over Delhi. Safdarjung airport reported lowest visibility 600m from 0530 IST to 0730 IST which thereafter improved to 700m from 0800 IST onwards. Palam airport reported lowest visibility 500 m from 0530 IST to 0700 IST which thereafter improved to 600m from 0730 IST of today, 09-01-2026. Partly cloudy sky conditions with predominant surface wind from the northwesterly directions with a wind speed up to 10 kmph prevailed during the past 24 hours. Partly cloudy sky conditions with wind speed reaching up to 10 kmph from the variable direction prevailed over the region in the forenoon today.

Weather Forecast:

09.01.2026: Partly cloudy sky. Mist/Haze during night. The maximum temperatures are likely to be in the range of 16°C to 18°C. The maximum temperatures will be below normal (-1.6°C to -3.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction associated with calm wind reaching up to 05 kmph during the afternoon hours. The wind speed will increase becoming up to 10 kmph from the north direction during evening and night.
10.01.2026: Mainly clear 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 range of 16°C to 18°C and 05°C to 07°C, respectively. The minimum temperatures will be near normal and the maximum temperatures will be below normal (-1.6°C to -3.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 10 kmph during the morning hours. The wind speed will increase becoming up to 15 kmph from the north-northwest direction in the afternoon. The wind speed will decrease, becoming less than 12 kmph from the northwest direction during evening and night.
11.01.2026: Mainly clear sky. Shallow to Moderate fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 15°C to 17°C and 04°C to 06°C respectively. The minimum will below normal (-1.6°C to -3.0°C) and the maximum temperatures will below normal (-1.6°C to -3.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind reaching up to 15 kmph during morning hours. The wind is likely to be from the northwest direction with wind speed up to 20 kmph during afternoon. The wind speed will decrease, becoming less than 16 kmph from the west direction during evening and night.
12.01.2026: Mainly clear sky. Shallow to Moderate fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 15°C to 17°C and 05°C to 07°C, respectively. The minimum temperatures will near normal and the maximum temperatures will below normal (-1.6°C to -3.0°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 is likely to be from the north-northwest direction associated with calm wind reaching up to 05 kmph during afternoon hours. The wind speed will remain same up to 05 kmph from the north direction during evening and night.





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

- **Dense to very dense fog** conditions very likely to prevail in morning hours in isolated pockets over West Rajasthan till 11th and Dense fog in isolated pockets on 12th January 2026.
- **Dense to very dense fog** conditions very likely to prevail in morning hours in isolated parts over East Rajasthan till 11th January and Dense fog in isolated pockets on 12th & 13th January 2026.
- **Dense fog** conditions also likely during morning hours in isolated pockets over Jammu division, Himachal Pradesh, Uttarakhand till 14th; Punjab, Haryana, Chandigarh and Bihar till 16th January; West Uttar Pradesh on 10th & during 13th-16th; East Uttar Pradesh till 10th & on 15th & 16th; Madhya Pradesh, Sub-Himalayan West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura till 11th January.

❖ **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: **Cold wave** conditions very likely in isolated pockets of Himachal Pradesh, Punjab, Haryana, Chandigarh, Odisha, North Interior Karnataka on 10th & 11th; Uttarakhand, Madhya Pradesh, Chhattisgarh, Jharkhand & Bihar on 10th and Rajasthan during 11th-14th 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.

Impact expected due to Cold Day conditions: **Cold day conditions** likely to prevail in isolated parts over East Rajasthan & Bihar during 09th-11th; Punjab, Haryana, Chandigarh, West Rajasthan & Madhya Pradesh on 09th & 10th 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 Woolen clothing rather than one layer of heavy cloth.
- Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- Avoid or limit outdoor activities.
- Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- If the affected skin area turns black, immediately consult a doctor.
- Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- Take safety measures while using electrical and gas heating devices.
- Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- Protect livestock from cold weather.

Agromet advisories for likely impact of Heavy Rainfall

- In **Tamil Nadu**, prioritize harvesting of matured paddy, maize, black gram, clove & black pepper before commencement of heavy rainfall spell; keep the harvested produce in safe places. Make necessary arrangements to drain out excess rain water from the standing crops and vegetable fields. Provide staking to tomato, chilli, climbers, and vine vegetables. Strengthen supports, and pandals in vegetable fields.

Agromet advisories for likely impact of Cold Waves/ Ground Frost/ Low Temperatures

- In **Himachal Pradesh, Uttarakhand, Punjab, Haryana, Rajasthan, Madhya Pradesh, Chhattisgarh, North Interior Karnataka, Odisha, Bihar** and **Jharkhand,** 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:

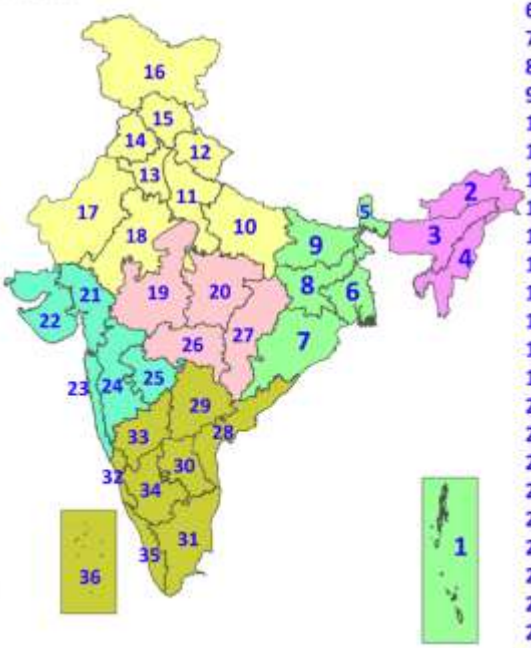
- **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- **Obsy:** Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District: **NH:** National Highway; **KVK**: Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO**: 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.

राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

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 Rain
Very Heavy Rain
Extremely Heavy Rain
Thunder & Lightning
Hailstorm
Dust Raising Winds
Heavy Snow
Dust Storm
Heat Wave
Warm Night
Hot Day
Hot & Humid
Strong Surface Winds
Cold Wave
Cold Day
Ground Frost

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)

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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 ≥40° C for plains and ≥30° 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 ≥6.5° C **(b). Based on Actual maximum temperature** **Heat Wave:** When actual maximum temperature ≥45°C. **Severe Heat Wave:** When actual maximum temperature ≥47°C **(c). Criteria for heat wave for coastal stations** When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°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 °C.
Cold Wave	**When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C **(b) Based on actual Minimum Temperature (for Plains only)** **Cold Wave :** When Minimum Temperature is ≤ 4.0 °C **Severe Cold Wave:** When Minimum Temperature is ≤ 2.0 °C **(c) For Coastal Stations** When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
Cold Day	**When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C
Fog	**Phenomenon of small droplets suspended in air and the horizontal visibility < 1km** **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 ≤4°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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