



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 02<sup>nd</sup> January 2026

Time of Issue: 1300 hours IST

**Subject: (i) Dense to very dense fog conditions very likely to continue during night/morning hours over Punjab, Haryana & Chandigarh, Uttar Pradesh, Bihar and Odisha during next 5-7 days and over Jammu, Himachal Pradesh, Uttarakhand, Rajasthan, north Madhya Pradesh and Northeast India during next 4-5 days.**

**(ii) Cold day conditions very likely in isolated pockets over Himachal Pradesh on 02<sup>nd</sup>; Bihar on 04<sup>th</sup> & 05<sup>th</sup> January, 2026.**

**(iii) Cold wave conditions very likely in isolated pockets over Himachal Pradesh on 03<sup>rd</sup> & 04<sup>th</sup>; Haryana & Chandigarh during 03<sup>rd</sup> -06<sup>th</sup>; Punjab during 04<sup>th</sup>-06<sup>th</sup>; Rajasthan on 08<sup>th</sup> & 09<sup>th</sup> January, 2026.**

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 02<sup>nd</sup> January, 2026:**

- ❖ **Dense to very Dense fog (visibility <50 m) conditions** prevailed in many parts over East Uttar Pradesh; in isolated pockets of Jammu, Punjab, West Uttar Pradesh, West Madhya Pradesh, Odisha, Bihar; **dense fog (visibility 50-199 m):** prevailed in isolated pockets of East Madhya Pradesh, Sub-Himalayan West Bengal, Himachal Pradesh, Uttarakhand, Haryana, Rajasthan, Assam and Tripura.
- ❖ **Visibility in meter reported ( $\leq 200$  m):** **Jammu:** Udhampur 0, Jammu airport 50; **Punjab:** Amritsar 0, Halwara 10, Ballowal Saunkhri 80; **West Uttar Pradesh:** Agra IAF 00, Hamirpur 20, Moradabad & Jhansi 100; **East Uttar Pradesh:** Gorakhpur IAF, Kushinagar, Prayagraj IAF, Kanpur(IAF), Azamgarh 00 Each, Fursatganj, Fatehpur, Prayagraj, Kanpur(City)10 Each, Ballia 20, Sultanpur 30, Basti, Bagrai, Gorakhpur 40 Each, Lucknow, Varanasi(BHU), Varanasi(AP), Ghazipur, Ayodhya 50 Each, Hardoi 60, Fatehgarh 80, L. Khiri 90, Chitrakoot Ap 100, Ayodhya 150; **Odisha:** Dhenkanal 10, Rourkela 50; **Bihar:** Gaya, Bhagalpur <50 each; **Sub-Himalayan West Bengal:** Coochbehar 50; **Himachal Pradesh:** Sundernagar 70; **Uttarakhand:** Khatima 75; **Haryana:** Bhiwani 50, Karnal 100; **West Rajasthan:** Bikaner 100, Jaisalmer 50, Barmer 200; **East Rajasthan:** Udaipur 100; **West Madhya Pradesh:** Gwalior 0; **East Madhya Pradesh:** Khajuraho 100; **Tripura:** Agartala 50; **Assam:** Dhubri 100, Guwahati, Dibrugarh 150.
- ❖ **Heavy to very heavy rainfall at a few places with isolated Extremely heavy rainfall ( $\geq 21$  cm)** have been recorded over Tamil Nadu.
- ❖ **Heavy rainfall (7- 11 cm)** has been recorded at isolated places over Kerala.
- ❖ **Ground frost conditions** has been recorded in isolated pockets over Uttarakhand.

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

- ❖ The **Western disturbance** now seen as an upper air cyclonic circulation over northwest Uttar Pradesh & neighbourhood in lower tropospheric levels with a trough aloft in middle tropospheric levels roughly along Long. 75°E to the north of Lat. 33°N.
- ❖ An upper air **cyclonic circulation** lies over Northwest Bangladesh & adjoining Sub-Himalayan West Bengal and another over northeast Assam & neighbourhood in lower tropospheric levels.
- ❖ Subtropical westerly Jet Stream with core winds of the order of 115 knots at 12.6 km above mean sea level continues to prevail over north India.
- ❖ An upper air **cyclonic circulation** lies over southwest Bay of Bengal off Sri Lanka coasts in lower tropospheric levels and a **trough** runs from this upper air cyclonic circulation to interior Tamil Nadu in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over Coastal Karnataka in lower tropospheric levels.

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

- ❖ **Isolated Thunderstorm, lightning & gusty winds speed (30-40kmph)** likely to prevail over Andaman & Nicobar Islands 02<sup>nd</sup> and **heavy rainfall** likely over Tamilnadu on 02<sup>nd</sup> January, 2026.

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

- ❖ **Minimum temperatures** were **below 0°C** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **0-5°C** over Himachal Pradesh & Uttarakhand; **5°-10°C** at a few places over Punjab, Delhi, Uttar Pradesh, West Rajasthan, Bihar, Jharkhand, north Chhattisgarh; **10°-15°C** at a few places over East Rajasthan, Madhya Pradesh, Saurashtra & Kutch, Odisha, Maharashtra; at isolated places over Haryana and West Bengal & Sikkim.
- ❖ Minimum Temperatures departures were **appreciably below normal** (-5.0°C to -3.1°C) at isolated places over Odisha and were below normal (-3.0°C to -1.6°C) at isolated places over East Uttar Pradesh, Gangetic West Bengal and Bihar. ([refer to ANNEXURE IV](#))
- ❖ The **lowest minimum temperature** of 4.5°C was observed **at Narnaul (Haryana)** over the plains of India.

### **Forecast of minimum temperatures:**

- ❖ Gradual fall in minimum temperatures by 2-4°C likely over Northwest India during next 3 days and no significant change thereafter for subsequent 4 days.
- ❖ No significant change in minimum temperature likely over Central India during next 24 hours; gradual fall by 2-4°C likely during subsequent 3 days and no significant change thereafter for next 3 days.
- ❖ Gradual rise in minimum temperature by 2-3°C likely over East India during next 2 days, gradual fall by 2-3°C likely during subsequent 5 days.
- ❖ Gradual rise in minimum temperature by 2-3°C likely over Maharashtra during next 3 days and no significant change thereafter for subsequent 4 days.
- ❖ No significant change in minimum temperature likely over Gujarat during next 24 hours; gradual rise by 2-3°C during subsequent 3 days and no significant change thereafter for next 3 days.

### **Dense Fog, Cold day & Cold wave Warnings:**

- ❖ **Dense to Very dense** fog conditions very likely to continue during night/morning hours at many/some places over Punjab, Haryana, Chandigarh till 07<sup>th</sup>; West Uttar Pradesh till 05<sup>th</sup>; East Uttar Pradesh till 05<sup>th</sup> & during 08<sup>th</sup> & 09<sup>th</sup>; Odisha till 06<sup>th</sup> January, 2026.
- ❖ **Dense fog** conditions also likely during night/morning hours in isolated pockets Jammu division, north Madhya Pradesh till 06<sup>th</sup>; Himachal Pradesh, Uttarakhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura till 07<sup>th</sup>; Punjab, Haryana, Chandigarh on 08<sup>th</sup> & 09<sup>th</sup>; West Uttar Pradesh during 06<sup>th</sup>-09<sup>th</sup>; East Uttar Pradesh on 06<sup>th</sup> & 07<sup>th</sup>; Rajasthan, Chhattisgarh, West Bengal & Sikkim on 03<sup>rd</sup> & 04<sup>th</sup>; Jharkhand till 05<sup>th</sup>; Odisha on 07<sup>th</sup>; Arunachal Pradesh till 03<sup>rd</sup> and Bihar till 08<sup>th</sup> January 2026.
- ❖ **Cold day conditions** very likely at isolated pockets over Himachal Pradesh on 02<sup>nd</sup>; Bihar on 04<sup>th</sup> & 05<sup>th</sup> January, 2026.
- ❖ **Cold wave** conditions very likely in isolated pockets of Himachal Pradesh on 03<sup>rd</sup> & 04<sup>th</sup>; Punjab during 04<sup>th</sup>-06<sup>th</sup>; Haryana Chandigarh & Delhi during 03<sup>rd</sup>-06<sup>th</sup>; Rajasthan on 08<sup>th</sup> & 09<sup>th</sup> January 2026.

### **Ground Frost Warnings:**

- ❖ **Ground frost conditions** very likely in isolated pockets of Uttarakhand on 02<sup>nd</sup> & 03<sup>rd</sup> and Meghalaya on 02<sup>nd</sup> January, 2026.

### **Fisherman Warning:**

Fishermen are advised not to venture into the following areas during 02<sup>nd</sup> January to 07<sup>th</sup> January, 2026:

#### ➤ **Bay of Bengal:**

Over Gulf of Mannar & adjoining, some parts of Comorin area during on 02<sup>nd</sup> to 07<sup>th</sup> January 2026; along and off Sri Lanka coast, over many parts of southwest Bay of Bengal and adjoining southeast Bay of Bengal on 02<sup>nd</sup> to 04<sup>th</sup> January.

#### ➤ **Arabian Sea:**

Along and Somalia coast and adjoining sea areas during 02<sup>nd</sup> to 07<sup>th</sup> January.

## **Weather conditions and forecast over Delhi/NCR during 02<sup>nd</sup> -05<sup>th</sup> January, 2026 (ANNEXURE III)**

**For more details, kindly refer National Weather Bulletin:**

[https://mausam.imd.gov.in/responsive/all\\_india\\_forcast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php)

**For District wise warnings refer:** <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

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

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

**Tamilnadu, Puducherry & Karaikal:** Coonoor PTO (dist The Nilgiris) 26, Gadana Dam (dist Tenkasi) 24, Coonoor (dist The Nilgiris) 21, Sivagiri (dist Tenkasi) 17, Veerapandi (dist Theni), Ramanadhi Dam Section (dist Tenkasi) 12 each ,Kothagiri (dist The Nilgiris) 11,Cheranmahadevi (dist Tirunelveli),Ayikudi (dist Tenkasi) 10 each,Ambasamudram (dist Tirunelveli), Manjolai (dist Tirunelveli), Servalar Dam (dist Tirunelveli), Adar Estate (dist The Nilgiris), Tenkasi AWS (dist Tenkasi) 9 each,Pillur Dam Mettupalayam (dist Coimbatore), Bodinayakanur ARG (dist Theni),Kakkachi (dist Tirunelveli), Karuppanadhi Dam (dist Tenkasi) 8 each,Bodinaickanur (dist Theni), Kil Kotagiri Estate (dist The Nilgiris), Geddai (dist The Nilgiris) 7 each;

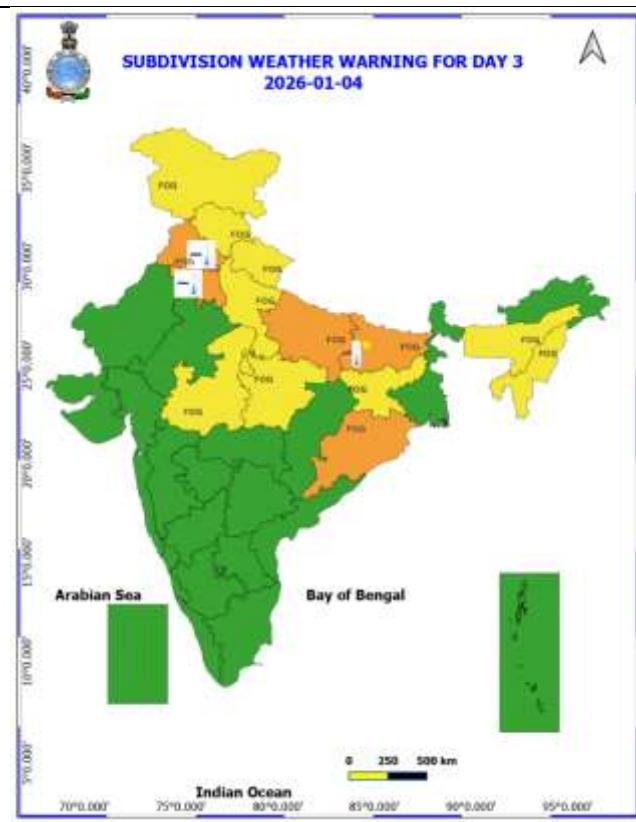
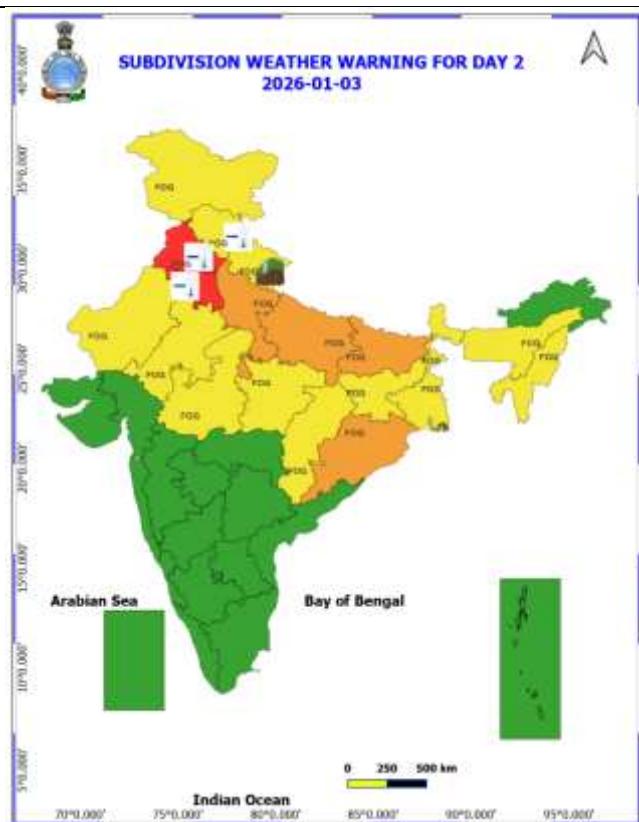
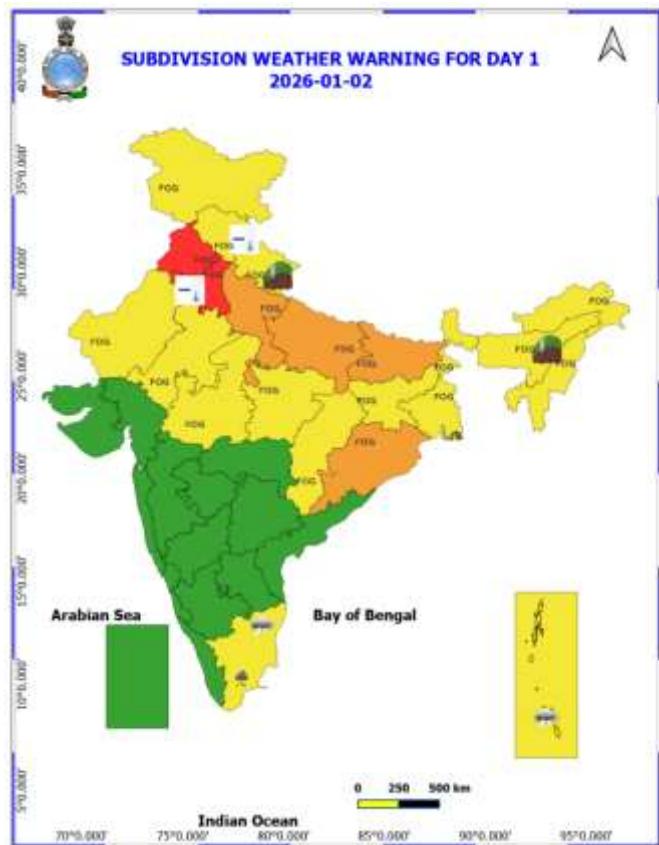
**Kerala:** Palakkad (dist Palakkad) 7.

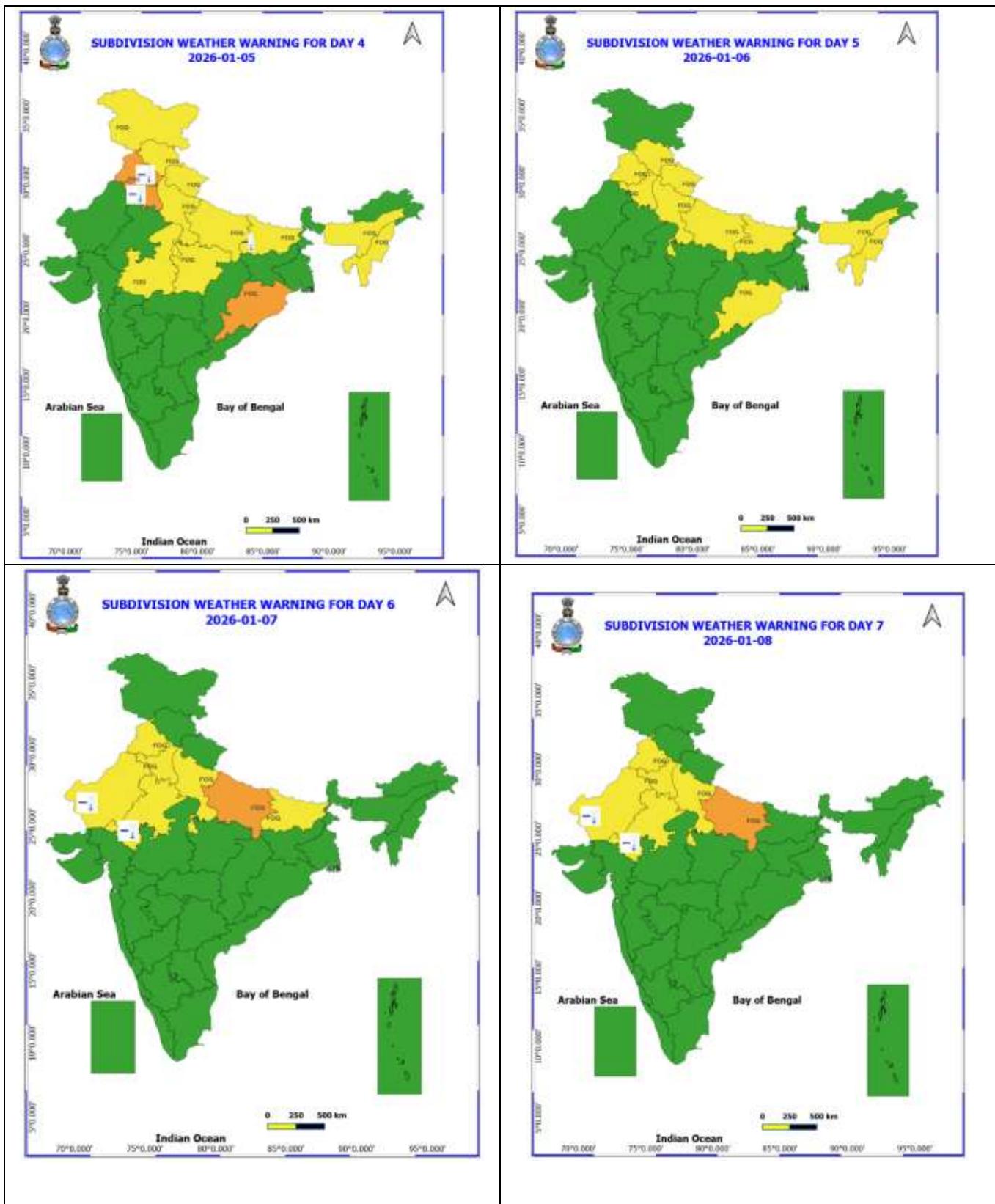
Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	2- Jan	3- Jan	4- Jan	5- Jan	6- Jan	7- Jan	8- 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	SCT
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
3	ASSAM & MEHGHALAYA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	DRY						
13	HARYANA, CHANDIGARH & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	ISOL	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY						
21	GUJRAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY						
24	MADHYA MAHARASHTRA	DRY						
25	MARATHWADA	DRY						
26	VIDARBHA	DRY						
27	CHHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH	DRY						
29	TELANGANA	DRY						
30	RAYALASEEMA	DRY						
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA AND MAHE	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
36	LAKSHADWEEP	SCT	SCT	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 02<sup>nd</sup> to 05<sup>th</sup> January 2026

### Past Weather:

There has been a 1-2°C fall in minimum temperatures and a 2-3°C rise in maximum temperatures over the past 24 hours in Delhi. The maximum and minimum temperatures over Delhi were around 15°C to 17°C and 8°C to 9°C, respectively. The minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places & above normal (1.6°C to 3.0°C) at a few places, and normal (-1.5°C to 1.5°C) over the remaining places of Delhi. The maximum temperatures were appreciably below normal (-5°C) at isolated places and below normal (-1.5°C to -3.0°C) over many places in Delhi. Safdarjung reported the lowest visibility 800m from 0130 to 0200 IST, which thereafter improved to 1200m at 0230 IST of today, 02.01.2026. Mainly clear sky with moderate to dense fog, predominant surface wind from the westerly direction with a wind speed up to 12 kmph prevailed during the past 24 hours. Mainly clear sky. Shallow fog prevailed during the night, and wind reached up to 15 kmph from the northwest direction over the region in the forenoon today.

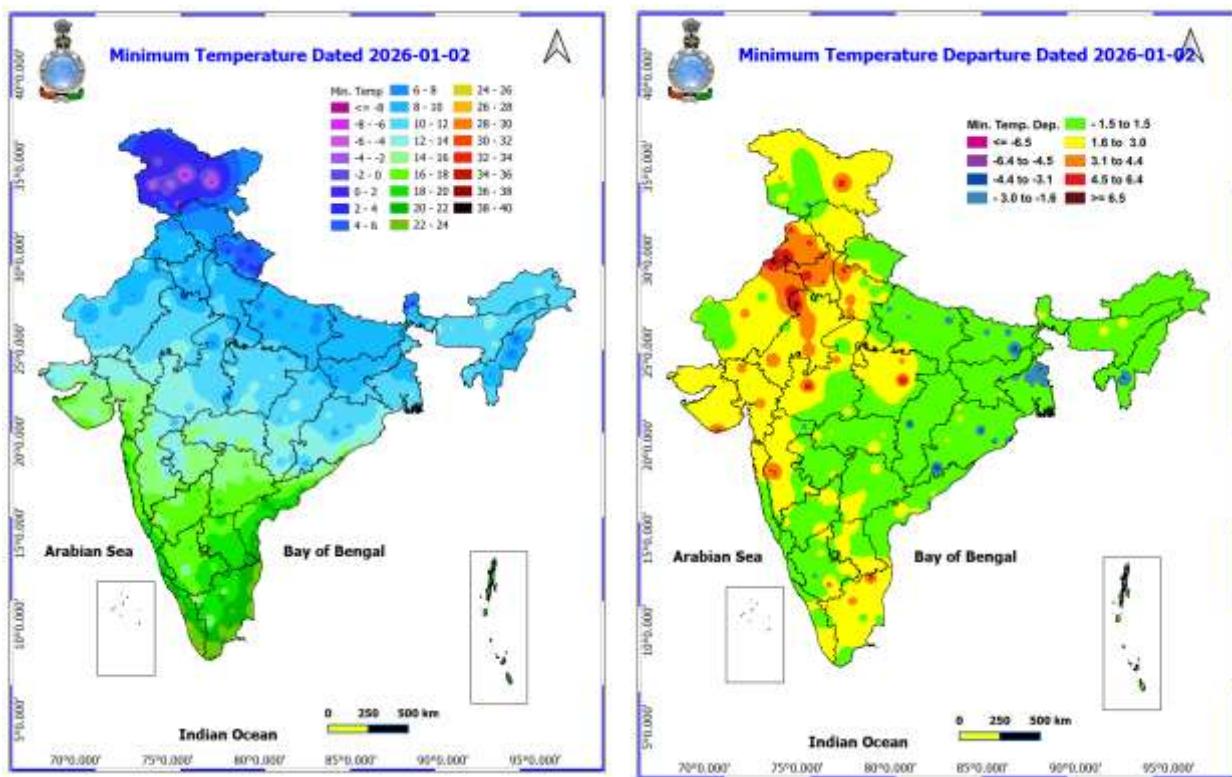
### Weather Forecast:

**02.01.2026:** Mainly clear sky. Mist/Haze during the night. The maximum temperatures are likely to be in the range of 17°C to 19°C. Maximum temperatures will be below normal (0.3°C to 2.3°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speeds less than 15 kmph during the afternoon hours. The wind speed will decrease, becoming less than 10 kmph from the northwest direction during the evening and night.

**03.01.2026:** Mainly clear 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 17°C to 19°C and 6°C to 8°C, respectively. The minimum temperature will be near normal, and the maximum temperatures will be above normal (0.3°C to 2.3°C) over Delhi. The predominant surface wind is likely to be from the west direction with wind speed less than 10 kmph during the morning hours. The wind speed will increase, becoming less than 15 kmph from the northwest direction in the afternoon hours. The wind speed will decrease, becoming less than 10 kmph from the northwest direction during the evening and night.

**04.01.2026:** Mainly clear 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 18°C to 20°C and 6°C to 8°C, respectively. The minimum temperatures will be near normal, and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the west direction with wind speeds less than 10 kmph during the morning hours. The wind speed will increase, becoming 15 kmph from the northwest direction in the afternoon. The wind speed will decrease up to 10 kmph from the northwest direction during the evening/night.

**05.01.2026:** Mainly clear sky. 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 7°C to 9°C, respectively. The minimum temperatures will be above normal (0.1°C to 2.1°C), and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the west direction, with wind speeds gradually increasing to reach up to 10 kmph during the morning hours. The wind speed will increase to 15 kmph from the northwest direction in the afternoon, and then decrease to 10 kmph 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 at many/some places over Punjab, Haryana, Chandigarh till 07<sup>th</sup>; West Uttar Pradesh till 05<sup>th</sup>; East Uttar Pradesh till 05<sup>th</sup> & during 08<sup>th</sup> & 09<sup>th</sup>; Odisha till 06<sup>th</sup> January, 2026.
- ❖ **Dense fog** conditions also likely during night/morning hours in isolated pockets Jammu division, north Madhya Pradesh till 06<sup>th</sup>; Himachal Pradesh, Uttarakhand, Assam & Meghalaya , Nagaland, Manipur, Mizoram & Tripura till 07<sup>th</sup>; Punjab, Haryana, Chandigarh on 08<sup>th</sup> & 09<sup>th</sup>; West Uttar Pradesh during 06<sup>th</sup>-09<sup>th</sup>; East Uttar Pradesh on 06<sup>th</sup> & 07<sup>th</sup>; Rajasthan, Chhattisgarh, West Bengal & Sikkim on 03<sup>rd</sup> & 04<sup>th</sup>; Jharkhand till 05<sup>th</sup>; Odisha on 07<sup>th</sup>; Arunachal Pradesh till 03<sup>rd</sup> and Bihar till 08<sup>th</sup> 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:** Cold wave conditions in isolated pockets of Himachal Pradesh on 03<sup>rd</sup> & 04<sup>th</sup>; Punjab during 04<sup>th</sup>-06<sup>th</sup>; Haryana Chandigarh & Delhi during 03<sup>rd</sup> -06<sup>th</sup>; Rajasthan on 08<sup>th</sup> & 09<sup>th</sup> 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 conditions** in isolated pockets over Himachal Pradesh on 02<sup>nd</sup>; Bihar on 04<sup>th</sup> & 05<sup>th</sup> 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 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 Cold Waves/ Ground Frost/ Low Temperatures

- In **Himachal Pradesh, Uttarakhand, Punjab, Haryana** and **Meghalaya** apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress or cold injuries. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.
- In **Tamil Nadu**, drain out excess water from standing crop fields and vegetables.

### Livestock / Poultry

- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

## Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

### Legends & abbreviations:

- ❖ **Heavy Rain:** 64.5-115.5mm; **Very Heavy Rain:** 115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- ❖ **Region wise classification of meteorological Sub-Divisions:**
  - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
  - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
  - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
  - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
  - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
  - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

## LEGENDS

1. अंडमान और निकोबार द्वीपसमूह

2. अरुणाचल प्रदेश

3. असम और मेघालय

4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल

7. ओडिशा

8. झारखण्ड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखण्ड

13. हरियाणा, चंडीगढ़ और दिल्ली

14. पंजाब

15. हिमाचल प्रदेश

16. जम्मू और कश्मीर और लद्दाख

17. पश्चिम राजस्थान

18. पूर्वी राजस्थान

19. पश्चिम मध्य प्रदेश

20. पूर्वी मध्य प्रदेश

21. गुजरात

22. सौराष्ट्र

23. कोकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुदुचेरी और कराईकल

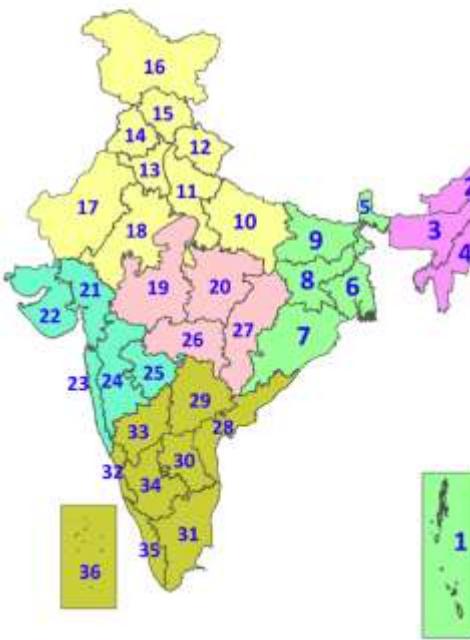
32. तटीय कर्नाटक

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

35. केरल और माहे

36. लक्षद्वीप



1. Andaman & Nicobar Islands

2. Arunachal Pradesh

3. Assam & Meghalaya

4. Nagaland, Manipur, Mizoram & Tripura

5. Sub-Himalayan West Bengal & Sikkim

6. Gangetic West Bengal

7. Odisha

8. Jharkhand

9. Bihar

10. East Uttar Pradesh

11. West Uttar Pradesh

12. Uttarakhand

13. Haryana, Chandigarh & Delhi

14. Punjab

15. Himachal Pradesh

16. Jammu & Kashmir and Ladakh

17. West Rajasthan

18. East Rajasthan

19. West Madhya Pradesh

20. East Madhya Pradesh

21. Gujarat

22. Saurashtra

23. Konkan & Goa

24. Madhya Maharashtra

25. Marathwada

26. Vidarbha

27. Chhattisgarh

28. Coastal Andhra Pradesh & Yanam

29. Telangana

30. Rayalaseema

31. Tamilnadu, Puducherry & Karaikal

32. Coastal Karnataka

33. North Interior Karnataka

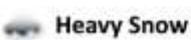
34. South Interior Karnataka

35. Kerala & Mahe

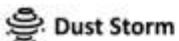
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

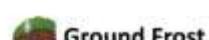
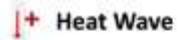
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)		
51-75	Fairly Widespread (FWS/Many Places)		
26-50	Scattered (SCT/A Few Places)		
1-25	Isolated (ISOL)		



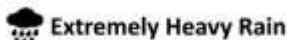
### COLOUR CODED WARNING



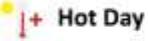
No Warning (No Action)



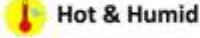
Watch (Be Aware)



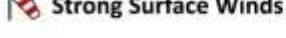
Alert (Be Prepared To Take Action)



Warning (Take Action)



### Probabilistic Forecast



Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

(Service to the Nation since 1875)



## DEFINITION/CRITERIA

### Rain/ Snow \*

**Heavy:** 64.5 to 115.5 mm/cm \*
**Very Heavy:** 115.6 to 204.4 mm/cm \*
**Extremely Heavy:** > 204.4 mm/cm \*

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

**Heat Wave:** Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

**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  $40^{\circ}\text{C}$

**Warm Night:** When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

**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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

**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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

**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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