



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 01<sup>st</sup> January 2026

Time of Issue: 1400 hours IST

**India Meteorological Department wishes all a Very  
Happy & Prosperous New Year 2026**

**Subject:** (i) Under the influence of Western Disturbance, light moderate rain/snow very likely over Western Himalayan region during next 2 days.  
(ii) Dense to Very dense fog conditions very likely to continue during night/morning hours at many/some places over Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Bihar and Odisha during next 5-7 days and at isolated pockets over Jammu, Himachal Pradesh, Uttarakhand and Rajasthan during next 3-4 days.  
(iii) Cold day conditions very likely at isolated pockets over Himachal Pradesh and Uttarakhand on 1<sup>st</sup>; over Punjab and Haryana Chandigarh & Delhi on 1<sup>st</sup> & 2<sup>nd</sup>; Bihar during 1<sup>st</sup> -3<sup>rd</sup> January 2026.  
(iv) Cold wave conditions very likely in isolated pockets of Himachal Pradesh during 1<sup>st</sup> - 4<sup>th</sup>; Punjab and Haryana Chandigarh & Delhi during 2<sup>nd</sup> -5<sup>th</sup>; Rajasthan during 4<sup>th</sup> - 7<sup>th</sup> January 2026.

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 01<sup>st</sup> January, 2025:**

- ❖ **Dense to very Dense fog (visibility <50 m) conditions** prevailed in isolated parts of Odisha, Bihar, Uttar Pradesh dense fog (visibility 50-199 m): prevailed in isolated pockets of Assam, Tripura, Manipur, Gangetic West Bengal, Uttarakhand, West Rajasthan, Madhya Pradesh
- ❖ **Visibility in meter reported ( $\leq 200$  m):** Assam & Meghalaya: Dibrugarh (50), Tezpur (100), Jorhat (200), North Lakhimpur (100); Nagaland, Manipur, Mizoram & Tripura : Agartala (50), Lengpui (100); Gangetic West Bengal : Durgapur (100); Dum Dum (150); Odisha: Dhenkanal, Sambalpur (49); Hirkud, Bhubaneswar, Keojhargarh (50-199m); Bihar: Bhagalpur (49); Purnea, Gaya (50-199m); Uttarakhand: Khatima(150); West Uttar Pradesh: Bareilly(IAF) & Agra(IAF)-00 Each, Shahjahanpur (25), AMS Aligarh, Ams Moradabad, Hamirpur, Jhansi & Orai-50 Each, Etawah-100; East Uttar Pradesh: Prayagraj(IAF), Gorakhpur(IAF), Azamgarh, Fursatganj & Kanpur(IAF)-00 Each, Prayagraj & Fatehpur-10 Each, Basti, Gorakhpur- & Ballia-20 Each, Hardoi-60, Fatehgarh-80, Banda, Ams Kushinagar, Kanpur(City) & Varanasi(AP)-(100), Varanasi(BHU)-(150); West Rajasthan: Churu(50) / Jaisalmer (100); West Madhya Pradesh: Datia(50); East Madhya Pradesh: Khajuraho(50)
- ❖ **Cold day to severe cold day conditions** prevailed at isolated parts over East Uttar Pradesh and Bihar; cold day conditions prevailed at isolated pockets West Uttar Pradesh.

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

- ❖ The Western disturbance as an upper air cyclonic circulation lies over north Pakistan & adjoining Punjab in lower tropospheric level with a trough aloft in middle roughly along Long. 71°E to the north of Lat. 27°N.
- ❖ An induced upper air cyclonic circulation lies over Punjab & neighbourhood in lower tropospheric levels.
- ❖ Subtropical westerly Jet Stream with core winds of the order of 120 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.
- ❖ A trough runs from Lakshadweep to Comorin area in lower tropospheric levels.

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

- ❖ **Scattered to fairly widespread light/moderate** rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 1<sup>st</sup> and light isolated rainfall/snowfall on 2<sup>nd</sup> January 2026.
- ❖ **Isolated to scattered** light rainfall likely over Punjab, Haryana & Chandigarh, north Rajasthan and West Uttar Pradesh on 1<sup>st</sup> January 2026.
- ❖ **Isolated Thunderstorm and lightning** likely over gusty wind speed (30-40kmph) likely to prevail over Andaman & Nicobar Islands 01<sup>st</sup> and Tamil Nadu on 01<sup>st</sup> & 02<sup>nd</sup> Jan 2026 and heavy rainfall likely over Tamilnadu on 01<sup>st</sup> January 2025.

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

- ❖ **Minimum temperatures were below 4°C** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **in the range of 4°-10°C** at many places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Uttar Pradesh at few places over Rajasthan, Odisha Bihar, Jharkhand at isolated places over Madhya Maharashtra Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Meghalaya, West Bengal & Sikkim
- ❖ Minimum Temperatures departures were **appreciably below normal** (-5.0°C to -3.1°C) at isolated places over Gangetic West Bengal and Odisha and were below normal (-3.0°C to -1.6°C) at isolated places over Uttar Pradesh, Bihar, Madhya Maharashtra, Vidarbha, Telangana **and** Konkan & Goa. ([refer to ANNEXURE IV](#))
- ❖ The **lowest minimum temperature** of 3.0°C was observed over **Barabanki (East Uttar Pradesh)** over the plains of India.

### Forecast of minimum temperatures:

- ❖ No significant change in minimum temperature likely over northwest India for 24 hours, fall by 2-3°C during next 3 days and no significant change thereafter.
- ❖ Gradual rise in minimum temperature very likely over East India by 2-4°C during next 2 days, no significant change for next 3 days and fall by 2-3°C for subsequent 2 days.
- ❖ No significant change in minimum temperature likely over Maharashtra during 24 hours, rise by 2-3°C for next 4 days and no significant change thereafter.
- ❖ Gradual fall in minimum temperature likely over Gujarat by 2-4°C for next 4 days and rise by 2-3°C for subsequent 3 days.
- ❖ No significant change in minimum temperature likely over northeast India during next 7 days.

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

- ❖ **Dense to Very dense** fog conditions very likely to continue during night/morning hours at many/some places over Punjab and Haryana Chandigarh & Delhi till 06<sup>th</sup>; over Odisha till 5<sup>th</sup>; over Bihar and East Uttar Pradesh till 2<sup>nd</sup> January at isolated pockets over Rajasthan till 3<sup>rd</sup> January 2026.
- ❖ **Dense fog** conditions also likely during night/morning hours at isolated pockets Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad till 4<sup>th</sup>; over Himachal Pradesh during 2<sup>nd</sup> -5<sup>th</sup>; over Uttarakhand till 5<sup>th</sup>; over Punjab and Haryana Chandigarh & Delhi during 7<sup>th</sup> -8<sup>th</sup>; over Bihar and Uttar Pradesh till 8<sup>th</sup>; over Rajasthan on 4<sup>th</sup>; over Madhya Pradesh and Chhattisgarh during 3<sup>rd</sup>; over Sub-Himalayan West Bengal & Sikkim during 2<sup>nd</sup> -5<sup>th</sup>; over Gangetic West Bengal till 4<sup>th</sup>; over Jharkhand on 1<sup>st</sup> & 2<sup>nd</sup>; Odisha on 6<sup>th</sup>; Arunachal Pradesh till 3<sup>rd</sup> and Assam & Meghalaya & Nagaland, Manipur, Mizoram & Tripura till 6<sup>th</sup> January 2026.
- ❖ **Cold day conditions** very likely at isolated pockets over Himachal Pradesh and Uttarakhand on 1<sup>st</sup>; over Punjab and Haryana Chandigarh & Delhi on 1<sup>st</sup> & 2<sup>nd</sup>; Bihar during 1<sup>st</sup> -3<sup>rd</sup> January 2026.
- ❖ **Cold wave** conditions very likely in isolated pockets of Himachal Pradesh during 1<sup>st</sup> - 4<sup>th</sup>; Punjab and Haryana Chandigarh & Delhi during 2<sup>nd</sup> -5<sup>th</sup>; Rajasthan during 4<sup>th</sup> - 7<sup>th</sup> January 2026.

### Fisherman Warning:

Fishermen are advised not to venture into the following areas during 01<sup>st</sup> January to 06<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 6<sup>th</sup> January 2026; along and off north Oman coast and adjoining sea areas on 01<sup>st</sup> January; along and Somalia coast and adjoining sea areas during 01<sup>st</sup> to 06<sup>th</sup> January 2026.

## Weather conditions and forecast over Delhi/NCR during 01<sup>st</sup> -04<sup>th</sup> January, 2025 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

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

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

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

### Significant amount of rainfall(in cm)

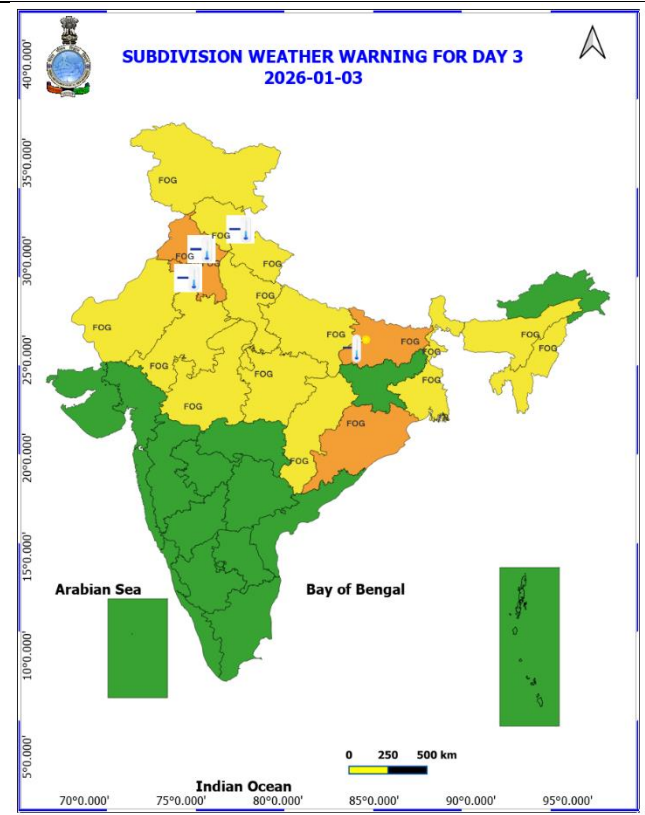
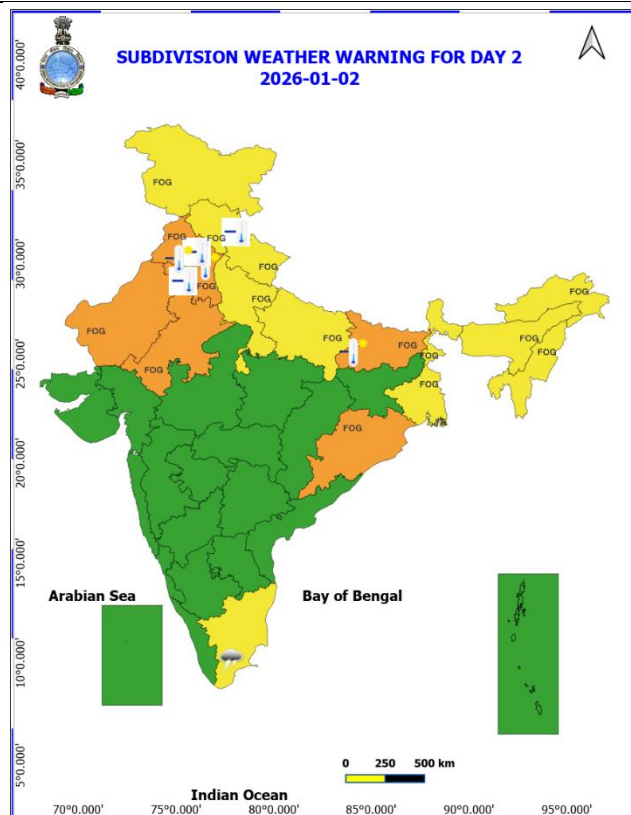
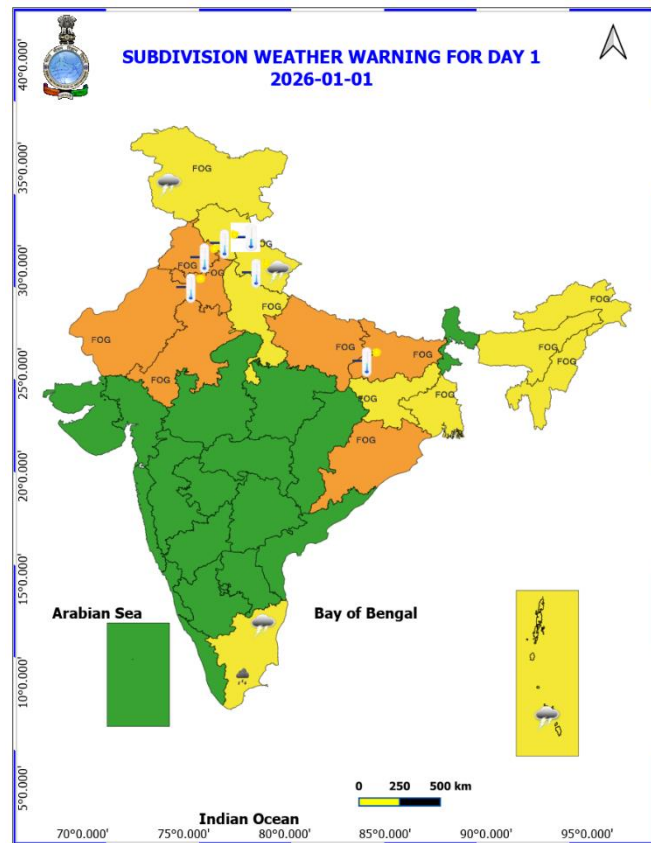
**TAMILNADU, PUDUCHERRY & KARAIKAL AREA:** Z 06 Perambur (W 67) (dist Chennai) 11, Z 01 Ennore (W 03) (dist Chennai) 10, Ennore AWS (dist Tiruvallur) 9, Z 01 Kathivakkam (W 02) (dist Chennai) 7

## ANNEXURE I

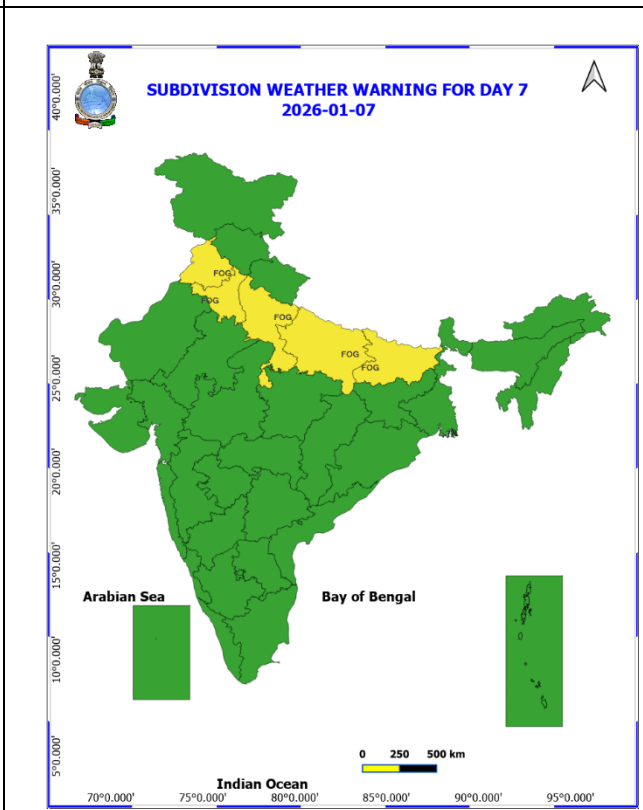
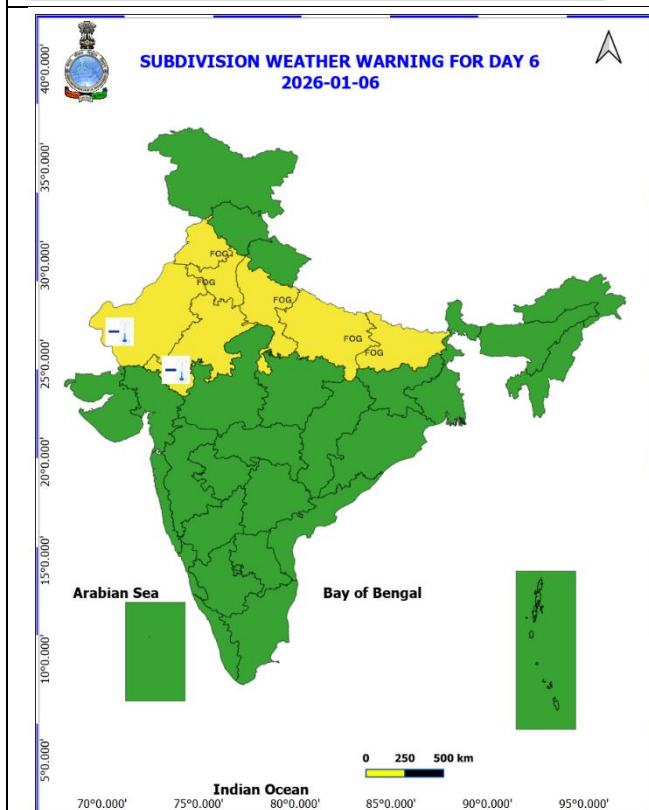
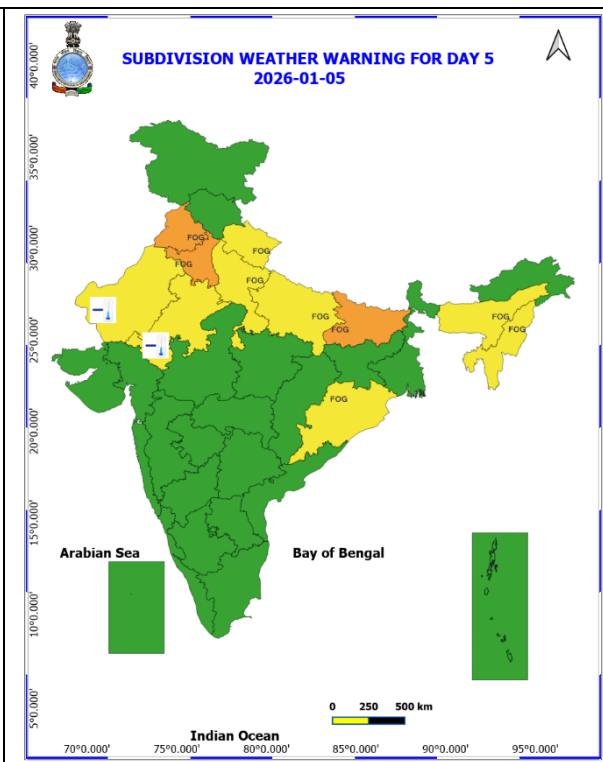
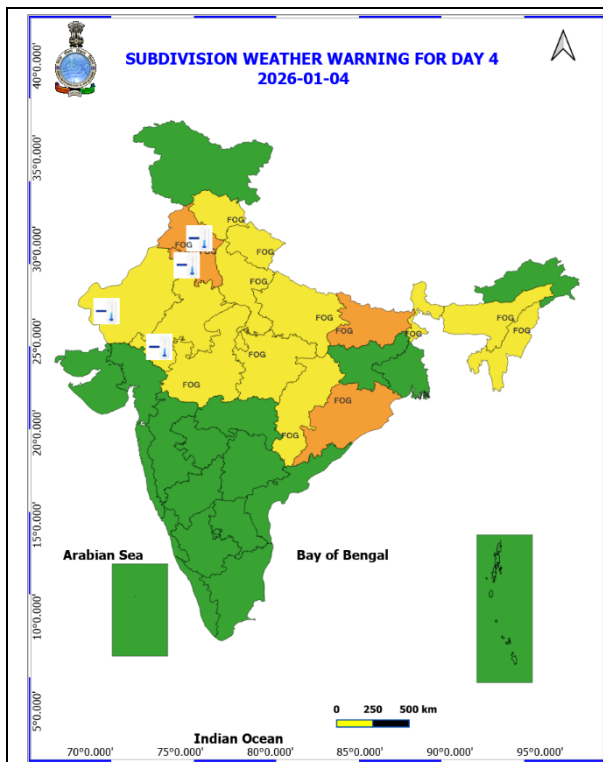
Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	1- Jan	2- Jan	3- Jan	4- Jan	5- Jan	6- Jan	7- Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
3	ASSAM & MEHGHALAYA	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
13	HARYANA, CHANDIGARH & DELHI	SCT	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	SCT	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	FWS	ISOL	DRY	DRY	ISOL	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	FWS	ISOL	DRY	DRY	ISOL	SCT	SCT
17	WEST RAJASTHAN	ISOL	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	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	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	SCT	ISOL	ISOL	DRY	DRY	DRY	ISOL
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA AND MAHE	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
36	LAKSHADWEEP	SCT	SCT	SCT	DRY	DRY	DRY	DRY

- As the lead period increases forecast accuracy decrease

3.







- 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 01<sup>st</sup> -04<sup>th</sup> January 2026****Past Weather:**

There has been rise in minimum temperature by 2-4°C and the maximum temperature fell by 4-8°C during the past 24 hours over Delhi. The maximum and minimum temperatures over Delhi were around 13 to 14°C and 09 to 11°C respectively. The minimum temperatures are appreciably above normal (3.1 to 5.0°C) at many places and above normal (1.6 to 3.0°C) at a few places over Delhi. The maximum temperatures were markedly below normal (-5.1 or more) at most places over Delhi. Safdarjung reported lowest visibility 500m in shallow fog from 2230 IST of 31.12.2025 to 0830 IST which thereafter improved to 600m at 0900 IST of today 01.01.2026. Palam reported lowest visibility 500m in shallow fog from 2130 IST of 31.12.2025 to 0800 IST which thereafter improved to 600m at 0830 IST of today, 01.01.2026. Very light rain/drizzle occurred at isolated places during morning hours of 01.01.2026 over Delhi. Partly clear sky conditions with predominant surface wind from the easterly directions with a wind speed up to 16 kmph prevailed during the past 24 hours. Generally cloudy sky conditions with possibility of very light rain at isolated places and wind reaching up to 10 kmph from the southeasterly direction prevailed over the region in the forenoon today.

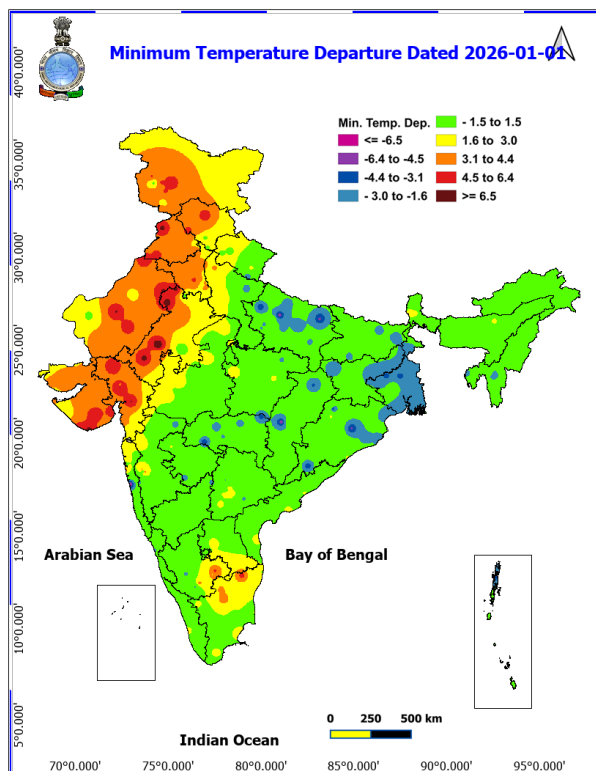
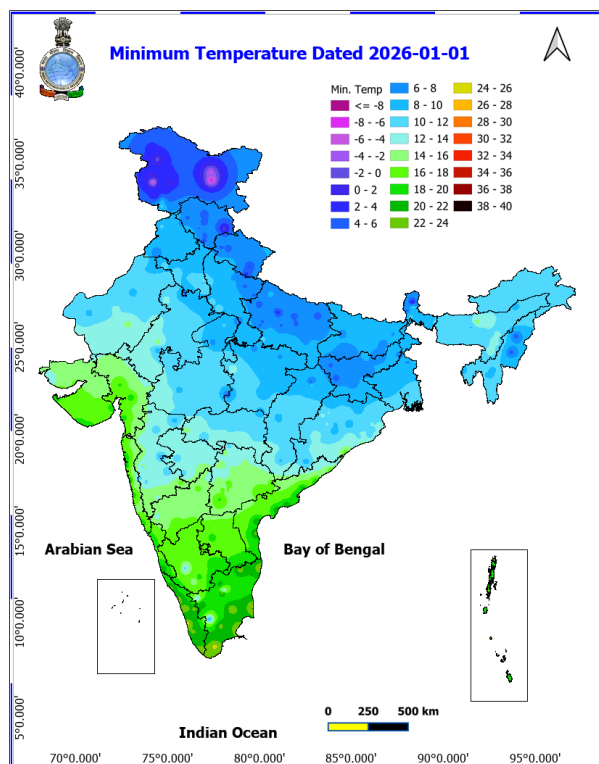
**Weather Forecast:**

**01.01.2026:** Generally cloudy sky. Cold day conditions at a isolated places. Moderate fog during night. The maximum temperatures are likely to be in the range of 15 to 17°C. The maximum temperatures will be below normal (-3.3 to -5.3°C) over Delhi. The predominant surface wind is likely to be from the southeast direction with wind speed up to 10 kmph during the afternoon hours. The wind speed will decrease becoming less than 05 kmph from the northeast direction during evening and night.

**02.01.2026:** Partly cloudy sky. Moderate fog at many places with dense fog at a few places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 16 to 18°C and 08 to 10°C respectively. The minimum temperatures will be above normal (2.1 to 4.1°C) and the maximum temperatures will be below normal (-1.3 to -3.3°C) over Delhi. The predominant surface wind is likely to be from the northwest direction associated with calm wind reaching upto 05 kmph during the morning hours. The wind speed will increase becoming up to 10 kmph from the northwest direction in the afternoon. The wind speed will decrease, becoming less than 06 kmph from the northwest direction during evening and night.

**03.01.2026:** Mainly clear sky. Moderate fog at many places with dense fog at a few places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 16 to 18°C and 06 to 08°C respectively. The minimum temperatures will be above normal (0.1 to 2.1°C) and the maximum temperatures will be below normal (-1.3 to -3.3°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed up to 10 kmph during morning hours. The wind speed is likely to be from the northwest direction with wind speed up to 15 kmph during afternoon. The wind speed will decrease, becoming less than 06 kmph from the northwest direction during evening and night.

**04.01.2026:** Mainly clear sky. Moderate fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 17°C to 19°C and 06°C to 08°C respectively. The minimum temperatures will be near normal and the maximum temperatures will be below normal (-0.3 to -2.3°C) over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed up to 08 kmph during the morning hours. The wind speed will increase up to 16 kmph from the northwest direction in the afternoon. The wind speed will be less than 05 kmph from the west-northwest direction during evening and 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 and Haryana Chandigarh & Delhi till 06<sup>th</sup>; over Odisha till 5<sup>th</sup>; over Bihar and East Uttar Pradesh till 2<sup>nd</sup> January at isolated pockets over Rajasthan till 3<sup>rd</sup> January 2026.
- ❖ **Dense fog** conditions also likely during night/morning hours at isolated pockets Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad till 4<sup>th</sup>; over Himachal Pradesh during 2<sup>nd</sup> -5<sup>th</sup>; over Uttarakhand till 5<sup>th</sup>; over Punjab and Haryana Chandigarh & Delhi during 7<sup>th</sup> -8<sup>th</sup>; over Bihar and Uttar Pradesh till 8<sup>th</sup>; over Rajasthan on 4<sup>th</sup>; over Madhya Pradesh and Chhattisgarh during 3<sup>rd</sup>; over Sub-Himalayan West Bengal & Sikkim during 2<sup>nd</sup> -5<sup>th</sup>; over Gangetic West Bengal till 4<sup>th</sup>; over Jharkhand on 1<sup>st</sup> & 2<sup>nd</sup>; Odisha on 6<sup>th</sup>; Arunachal Pradesh till 3<sup>rd</sup> and Assam & Meghalaya & Nagaland, Manipur, Mizoram & Tripura till 6<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:** very likely in isolated pockets of Himachal Pradesh during 1<sup>st</sup> - 4<sup>th</sup>; Punjab and Haryana Chandigarh & Delhi during 2<sup>nd</sup> - 5<sup>th</sup>; Rajasthan during 4<sup>th</sup> - 7<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** very likely at isolated pockets over Himachal Pradesh and Uttarakhand on 1<sup>st</sup>; over Punjab and Haryana Chandigarh & Delhi on 1<sup>st</sup> & 2<sup>nd</sup>; Bihar during 1<sup>st</sup> - 3<sup>rd</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.



### Agromet advisories for likely impact of Cold Waves / Low Temperatures

- In **Himachal Pradesh, Punjab** and **Haryana**, apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

### Livestock / Poultry

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

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

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

### Legends & abbreviations:

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

## LEGENDS

1. अंडमान और निकोबार द्वीपसमूह

2. अरुणाचल प्रदेश

3. असम और मेघालय

4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल

7. ओडिशा

8. झारखंड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखंड

13. हरियाणा, चंडीगढ़ और दिल्ली

14. पंजाब

15. हिमाचल प्रदेश

16. जम्मू और कश्मीर और लद्दाख

17. पश्चिम राजस्थान

18. पूर्वी राजस्थान

19. पश्चिम मध्य प्रदेश

20. पूर्वी मध्य प्रदेश

21. गुजरात

22. सौराष्ट्र

23. कोंकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुडुचेरी और कराईकल

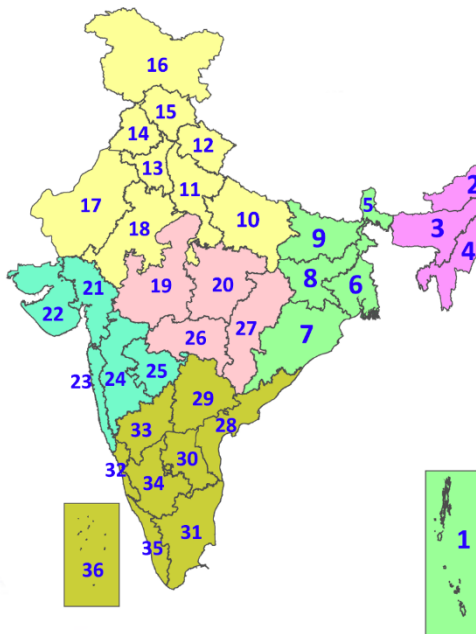
32. तटीय कर्नाटक

33. आंतरिक उत्तरी कर्नाटक

34. आंतरिक दक्षिणी कर्नाटक

35. केरल और माहे

36. लक्षद्वीप



1. Andaman & Nicobar Islands

2. Arunachal Pradesh

3. Assam & Meghalaya

4. Nagaland, Manipur, Mizoram & Tripura

5. Sub-Himalayan West Bengal & Sikkim

6. Gangetic West Bengal

7. Odisha

8. Jharkhand

9. Bihar

10. East Uttar Pradesh

11. West Uttar Pradesh

12. Uttarakhand

13. Haryana, Chandigarh & Delhi

14. Punjab

15. Himachal Pradesh

16. Jammu & Kashmir and Ladakh

17. West Rajasthan

18. East Rajasthan

19. West Madhya Pradesh

20. East Madhya Pradesh

21. Gujarat

22. Saurashtra

23. Konkan & Goa

24. Madhya Maharashtra

25. Marathwada

26. Vidarbha

27. Chhattisgarh

28. Coastal Andhra Pradesh & Yanam

29. Telangana

30. Rayalaseema

31. Tamilnadu, Puducherry & Karaikal

32. Coastal Karnataka

33. North Interior Karnataka

34. South Interior Karnataka

35. Kerala & Mahe

36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

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



Fog



Heavy Snow



Cold Wave



Heavy Rain



Dust Storm



Cold Day



Very Heavy Rain



Heat Wave



Ground Frost



Extremely Heavy Rain



Warm Night



Thunder & Lightning



Hot Day



Hailstorm



Hot & Humid



Dust Raising Winds



Strong Surface Winds

### COLOUR CODED WARNING

No Warning (No Action)
Watch (Be Aware)
Alert (Be Prepared To Take Action)
Warning (Take Action)

### Probabilistic Forecast

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

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

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

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

(Service to the Nation since 1875)

## DEFINITION/CRITERIA

### Rain/ Snow \*

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

### Heat Wave

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

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

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .

Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$

### Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

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 Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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