



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 28<sup>th</sup> January 2026

Time of Issue: 1310 hours IST

**Subject:** (i) A fresh Western Disturbance is likely to affect Western Himalayan region from 31<sup>st</sup> January to 02<sup>nd</sup> February with possibility of heavy rainfall/snowfall on 01<sup>st</sup> February.  
(ii) Light to moderate rainfall also likely over plains of northwest India and adjoining central India from 31<sup>st</sup> January to 02<sup>nd</sup> February.  
(iii) Dense fog conditions likely during morning hours in isolated pockets over northwest India and adjoining central India and parts of East India till 02<sup>nd</sup> February.

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 28<sup>th</sup> January, 2026:**

- ❖ **Dense to very Dense fog (visibility <50 m) conditions** prevailed in isolated pockets of Punjab, West Uttar Pradesh, Haryana and **dense fog (visibility 50-199 m) conditions** in isolated pockets over East Rajasthan, West Madhya Pradesh, Odisha, Bihar.
- ❖ **Visibility reported (in meters ≤200 m): West Uttar Pradesh:** Agra Iaf-0; **Punjab:** Bathinda (<50m), Faridkot-150, Ludhiana-190; **Haryana, Chandigarh:** Chandigarh-40, Narnaul-50, **West Madhya Pradesh:** Gwalior 50m; **East Rajasthan:** Ganganagar-90m; **Odisha:** Khurdha (100m); **Bihar:** Gaya (100m);
- ❖ **Cold day to Severe Cold day conditions** prevailed in few pockets of Himachal Pradesh.
- ❖ Isolated **hailstorm** activity has been recorded over Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh, East Madhya Pradesh, Madhya Maharashtra, Delhi.
- ❖ **Heavy rainfall** has been realised at isolated places over Himachal Pradesh, West Madhya Pradesh.
- ❖ **Light to moderate rainfall/snowfall occurred at many places** over Jammu-Kashmir-Ladakh, Himachal Pradesh, Uttarakhand.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 30-95 kmph over Himachal Pradesh, West Madhya Pradesh, Haryana, West Uttar Pradesh, Jammu-Kashmir, Uttarakhand, East Madhya Pradesh, Marathawada, East Uttar Pradesh, Konkan, Madhya Maharashtra.

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

- ❖ **Minimum temperatures** were 5-10°C over West Uttar Pradesh, Rajasthan, Madhya Pradesh, Bihar, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram. It is 10°C and above for remaining parts of the country, except higher reaches of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and at isolated places of Uttarakhand, Himachal Pradesh where it was less than 0°C.
- ❖ **Minimum Temperature Departures** were above normal by (3°C to 5°C) over Punjab, Haryana Chandigarh & Delhi, Bihar, Jharkhand; by (1°C to 3°C) over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Northeast India, Maharashtra and South Peninsular India and near normal over rest parts of the country. (refer to ANNEXURE IV)
- ❖ The **lowest minimum temperature** of 3.7°C was observed at **Amritsar (Punjab)** over the plains of India.

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

- ❖ The **Western Disturbance** as a cyclonic circulation over Jammu & neighbourhood in lower & middle tropospheric levels with the trough aloft in middle & upper troposphere westerlies runs roughly along Long. 76°E to the north of Lat. 25°N.
- ❖ A **trough** runs from Southeast Uttar Pradesh to North Interior Karnataka in lower tropospheric levels.
- ❖ A **cyclonic circulation** lies over Northeast Bihar & neighbourhood 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 prevails over North India.
- ❖ A **fresh western disturbance** is likely to affect northwest India from the night of 30th January 2026.

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

- ❖ Isolated rainfall/snowfall with **thunderstorm, lightning** very likely over Uttarakhand on 28<sup>th</sup> January. Isolated light rainfall also likely over Punjab, Haryana, Chandigarh, Uttar Pradesh on 28<sup>th</sup>; **Isolated** light rainfall with **thunderstorm, lightning** likely over East Uttar Pradesh on 28<sup>th</sup> January.
- ❖ **Isolated** light/moderate rainfall accompanied with thunderstorm, lightning very likely over Bihar, Chhattisgarh on 28<sup>th</sup> and **isolated Hailstorm activity also likely over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim on 28<sup>th</sup> January.**
- ❖ A fresh **western disturbance** is likely to affect northwest India from the night of 30<sup>th</sup> January 2026. Under its influence, scattered to fairly widespread rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** likely over Western Himalayan region and adjoining plains of Northwest India on 01<sup>st</sup> February. **Isolated** light rainfall with **thunderstorm, lightning** likely over Rajasthan on 31<sup>st</sup> January & 01<sup>st</sup> February.
- ❖ **Isolated heavy rainfall/snowfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 01<sup>st</sup> February.

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

- ❖ Gradual fall in minimum temperatures by 2-4°C likely over Northwest & Central India during next 2 days; gradual rise by 2-4°C during subsequent 2 days and no significant change thereafter.
- ❖ Gradual rise in minimum temperatures by 3-5°C likely over Gujarat during next 3 days; gradual fall by 2-3°C during subsequent 4 days and no significant change thereafter.
- ❖ No significant change in minimum temperatures likely over rest parts of the country.

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

- ❖ **Dense fog** conditions likely during night/night hours in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha till 30<sup>th</sup>, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh till 31<sup>st</sup>; Sub-Himalayan West Bengal & Sikkim, Bihar during 30<sup>th</sup>-31<sup>st</sup> January.
- ❖ **Cold wave** conditions likely in isolated pockets over Himachal Pradesh, Punjab, Haryana, Chandigarh during 28<sup>th</sup>-31<sup>st</sup> January.

### **Fisherman Warning:**

Fishermen are advised not to venture into the following areas during 28<sup>th</sup> January to 02<sup>nd</sup> February, 2026:

- ❖ **Bay of Bengal:** Along and off south Tamil Nadu and west Sri Lanka coasts, Over Gulf of Mannar, Comorin area on 28<sup>th</sup> & 29<sup>th</sup> January; some parts of Comorin area on 30<sup>th</sup> January.
- ❖ **Arabian Sea:** Over few parts of South West Arabian Sea on 28<sup>th</sup> January.

### **Weather conditions and forecast over Delhi/NCR during 28<sup>th</sup>-31<sup>st</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):**

- ❖ **Himachal Pradesh:** Kothi (dist Kullu) 7.
- ❖ **West Madhya Pradesh:** Gwalior (dist Gwalior), Begamgunj (dist Raisen) 7 each.

### **Gusty winds recorded (in kmph) (from 0830 hours IST of yesterday to 0830 hours IST of today):**

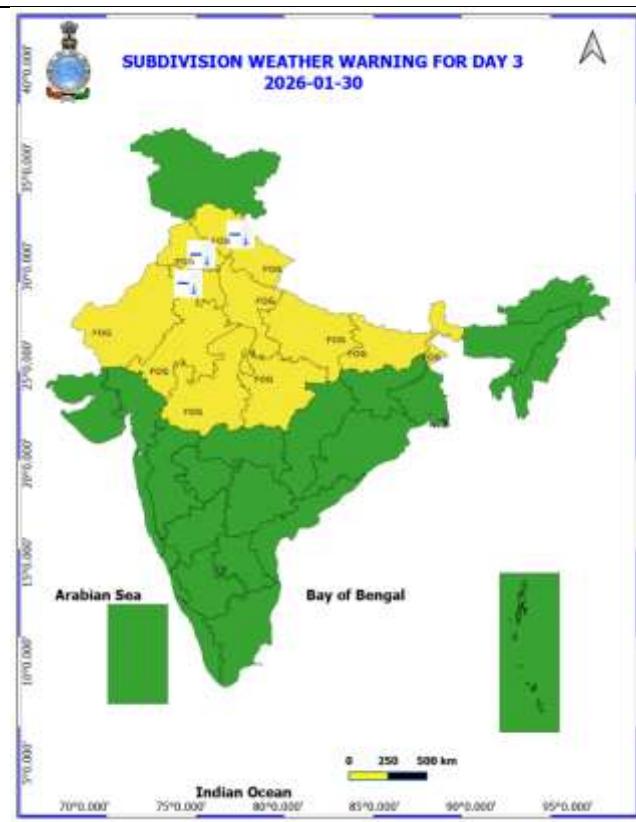
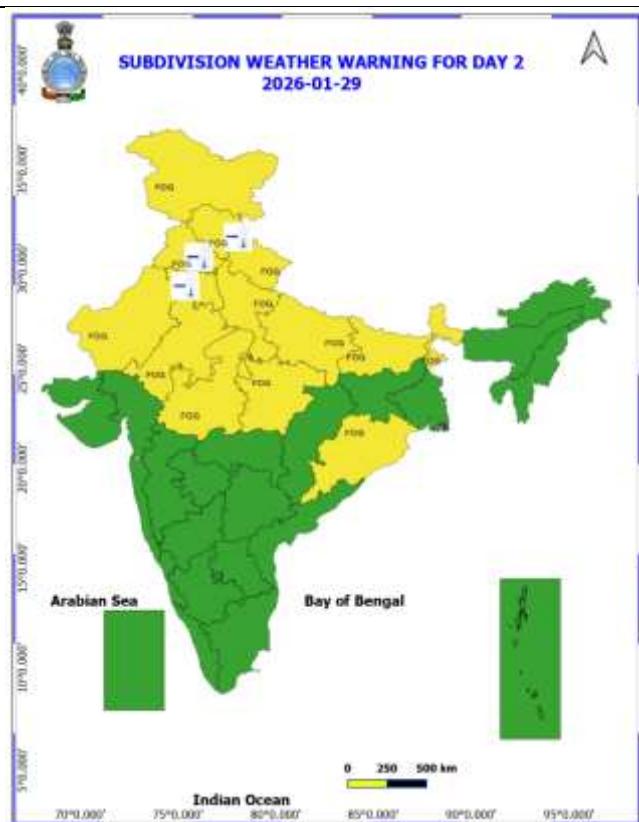
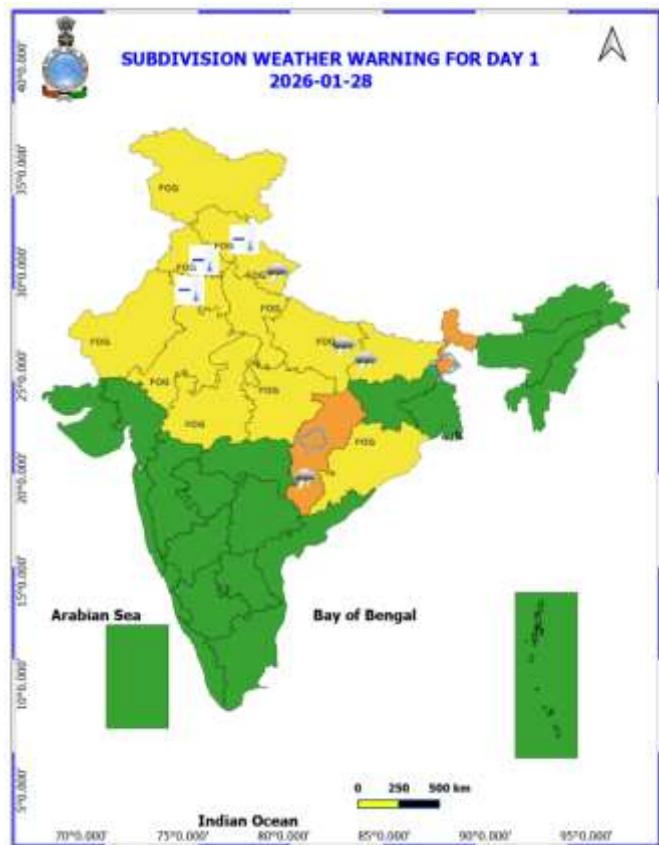
- ❖ **Himachal Pradesh:** Kufri-94, Recongpeo-72, Narkanda & Masobra-57, Shimla-44, Seobagh-35;
- ❖ **West Madhya Pradesh:** Shajapur 83;
- ❖ **Haryana:** Hathinkundberaj(Yamunanagar) =50, Uchani (Karnal) =39,,
- ❖ **West Uttar Pradesh:** Agra(Iaf) & Agra Aws-50 Each,Sarsawa(Iaf)-41, Moradabad Aws-39;
- ❖ **Jammu-Kashmir:** Reasi=48, Katra=45, Jammu(Chatha)=44, Baramulla=39.
- ❖ **Uttarakhand:** Mukteshwar and Champawat-39 kmph, Bharsar-37 kmph, Pantnagar-33 kmph, Hatibharkala 33;
- ❖ **East Madhya Pradesh:** Sagar 39;
- ❖ **Marathawada:** Ambejogai (Beed) - 35;

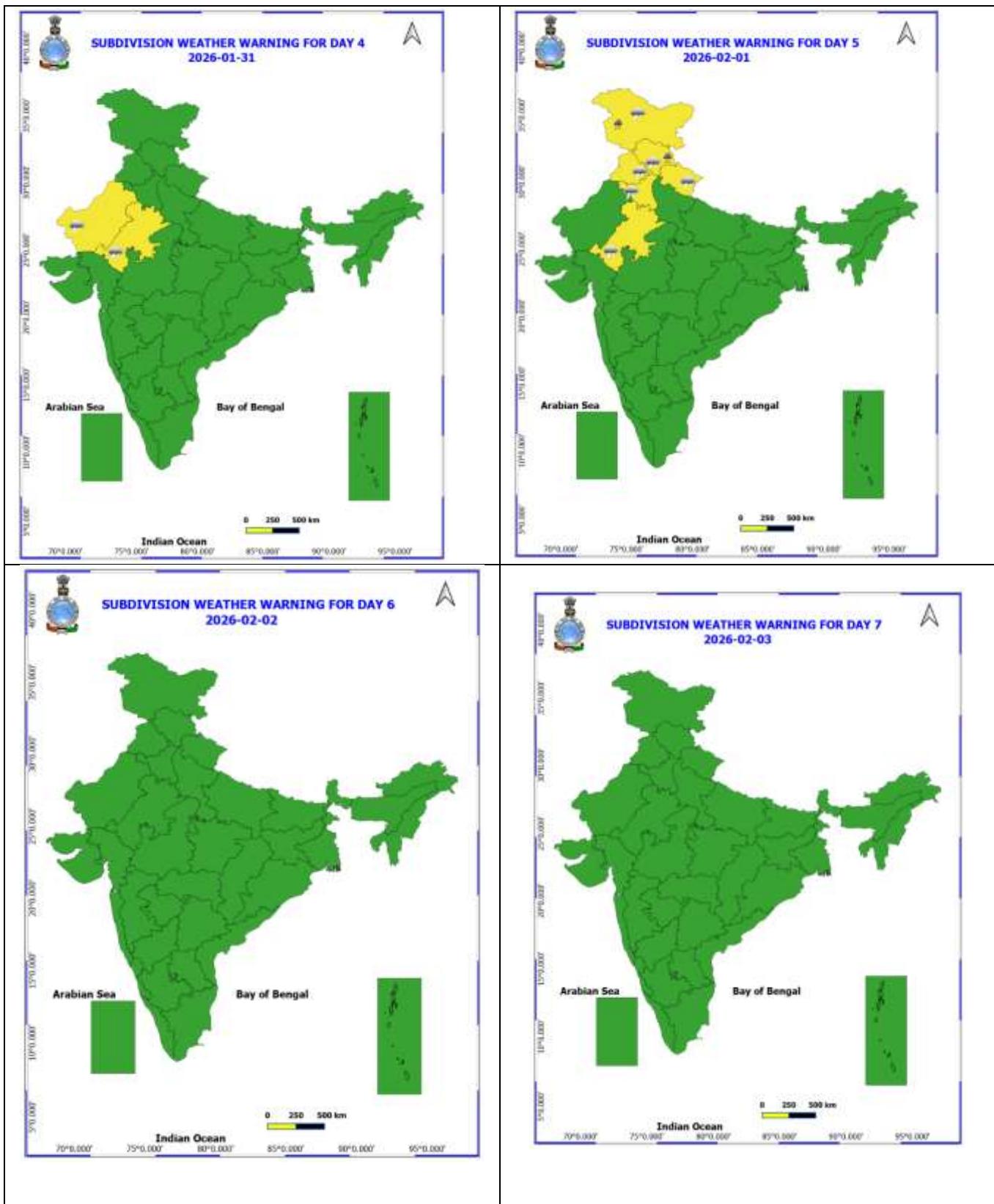
- ❖ **East Uttar Pradesh:** Lucknow(Integral University Aws)-33;
- ❖ **Konkan:** Devgad (Sindhudurg) - 33;
- ❖ **Madhya Maharashtra :** Kalwan (Nashik) - 33;

#### ANNEXURE I

S.No.	Subdivision	7 Days Rainfall Forecast						
		28- Jan	29- Jan	30- Jan	31- Jan	1- Feb	2- Feb	3- Feb
		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	SCT	ISOL	DRY	DRY	ISOL	ISOL
3	ASSAM & MEHGHALAYA	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL
9	BIHAR	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	SCT	DRY	DRY	DRY	DRY	ISOL	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	SCT	SCT	ISOL
12	UTTARAKHAND	SCT	DRY	DRY	ISOL	FWS	SCT	ISOL
13	HARYANA, CHANDIGARH & DELHI	ISOL	DRY	DRY	ISOL	FWS	SCT	SCT
14	PUNJAB	DRY	DRY	DRY	ISOL	FWS	SCT	ISOL
15	HIMACHAL PRADESH	ISOL	DRY	ISOL	ISOL	SCT	SCT	ISOL
16	JAMMU AND KASHMIR AND LADAKH	ISOL	DRY	ISOL	SCT	SCT	SCT	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	DRY	DRY	ISOL	ISOL	ISOL	ISOL
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	ISOL	ISOL	DRY
27	CHHATTISGARH	ISOL	DRY	DRY	DRY	DRY	ISOL	ISOL
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	DRY	DRY	DRY	ISOL	ISOL	ISOL	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	DRY	DRY	DRY	DRY	DRY	DRY
36	LAKSHADWEEP	SCT	DRY	DRY	DRY	DRY	DRY	DRY

- As the lead period increases forecast accuracy decrease.





- Action may be taken based on ORANGE AND REDCOLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Detailed districtwise Multi Hazard weather warning for next five days available at  
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

## Weather forecast over Delhi/NCR during 28<sup>th</sup> to 31<sup>st</sup> January 2026

### Past Weather:

There has been appreciable rise in the minimum temperature upto 2 - 4°C and markedly fall in the maximum temperature upto 4 - 6°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 11 to 13°C respectively. The minimum temperatures are appreciably above normal (-3.1°C to 5.0°C) at few places and above normal (1.6°C to 3.0°C) at remaining part of Delhi. The maximum temperatures are markedly below normal below (-5.1°C to more) at few places, appreciably below normal (-3.1 to -5.0°C) at remaining part of Delhi. Safdarjung reported lowest visibility 800m from 0930 IST to 1100 IST, which thereafter improved to 900m at 1130 IST of today, 28.01.2026. Palam reported lowest visibility 700m from 0900 IST to 0930 IST, which thereafter improved to 800m at 1000 IST of today, 28.01.2026. Generally cloudy sky conditions with light rain accompanied with thunderstorm/lightning over Delhi and predominant surface wind from the east directions with a wind speed up to 20 kmph with gusty winds speed reaching upto 25 - 35 kmph prevailed during the past 24 hours. Generally cloudy sky conditions with predominant surface wind from northwest directions with winds speed up to 10 kmph prevailed over the region in the forenoon today.

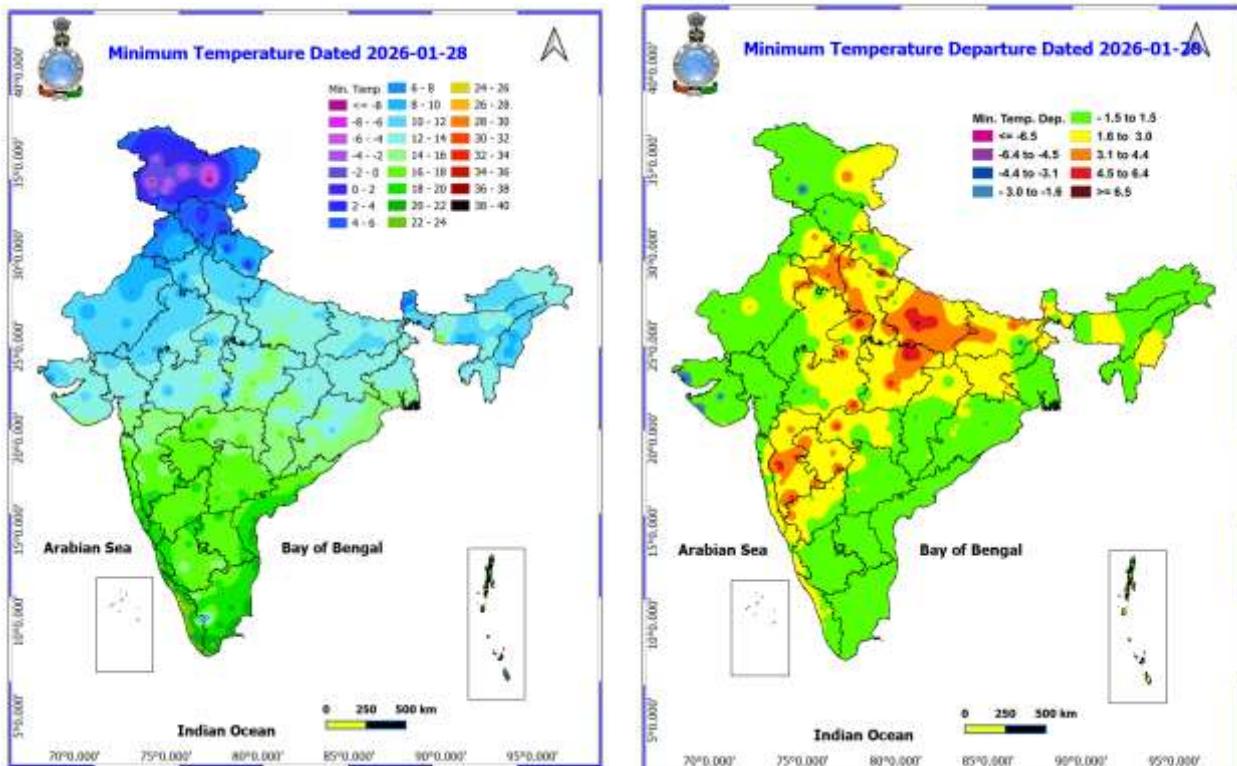
### Weather Forecast:

**28.01.2026:** Generally cloudy sky. Mist during night. The maximum temperatures are likely to be in the range of 16°C to 18°C. 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 speeds less than 15kmph during the afternoon hours. The wind speed will decrease up to 10 kmph from the northwest direction during the evening and night.

**29.01.2026:** Partly cloudy sky. Shallow fog at many places with moderate 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 06°C to 08°C respectively. The minimum temperature will be below normal (-1.6°C to -3.0°C) 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 west direction with wind speed less than 10kmph during the morning hours. The wind speed will increase up to 15kmph from the northwest direction in the afternoon hours. The wind speed will decrease up to 10kmph from the northwest direction during evening and night.

**30.01.2025:** Generally cloudy sky. Shallow fog at many places with moderate 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 07°C to 09°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 west direction with wind speeds less than 10kmph during the morning hours. The wind speed will increase becoming up to 12kmph from the northwest direction in the afternoon. The wind speed will decrease becoming up to 05kmph from north direction during the evening and night.

**31.01.2026:** Partly cloudy sky likely to becoming generally cloudy sky towards afternoon/evening with possibility of a spell of very light rain accompanied with thunderstorm/lightning and gusty winds speed reaching 30-40 kmph towards night. The maximum and minimum temperatures in Delhi are likely to be in the ranges of 19°C to 21°C and 06°C to 08°C respectively. The minimum temperatures will be below normal (-1.6°C to -3.0°C) 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 east direction with wind speed associated with calm wind reaching up to 05 kmph during the morning hours. The wind speed will increase becoming up to 08kmph from the northeast direction in the afternoon. The wind speed will increase up to 10kmph from the east direction during the evening and night.



### Impact expected and action suggested due to isolated thunderstorm with lightning/ gusty winds & Hailstorm over

- Isolated rainfall/snowfall with **thunderstorm, lightning** over Uttarakhand on 28<sup>th</sup> January. Isolated light rainfall over Punjab, Haryana, Chandigarh, Uttar Pradesh on 28<sup>th</sup>; **Isolated** light rainfall with **thunderstorm, lightning** over East Uttar Pradesh on 28<sup>th</sup> January.
- Isolated** light/moderate rainfall accompanied with thunderstorm, lightning very likely over Bihar, Chhattisgarh on 28<sup>th</sup> and **isolated Hailstorm activity also likely over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim on 28<sup>th</sup> January.**

#### Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

#### Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

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

- ❖ **Dense fog** conditions likely during night/night hours in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha till 30<sup>th</sup>, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh till 31<sup>st</sup>; Sub-Himalayan West Bengal & Sikkim, Bihar during 30<sup>th</sup>-31<sup>st</sup> 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.

### **Impact expected due to Cold Wave/ Severe Cold wave conditions:**

- ❖ **Cold wave** conditions likely in isolated pockets over Himachal Pradesh, Punjab, Haryana Chandigarh during 28<sup>th</sup>-31<sup>st</sup> January.
- ❖ An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- ❖ Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- ❖ Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- ❖ Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

### **Action suggested:**

- ❖ Wear several layers of loose fitting, light weight; warm woollen clothing.
- ❖ Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm woollen clothing rather than one layer of heavy cloth.
- ❖ Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- ❖ Avoid or limit outdoor activities.
- ❖ Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- ❖ Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- ❖ If the affected skin area turns black, immediately consult a doctor.
- ❖ Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- ❖ Take safety measures while using electrical and gas heating devices.
- ❖ Extreme care needed for vulnerable people.
- ❖ Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- ❖ Protect livestock from cold weather.

### **Agromet advisories for likely impact of Heavy Snowfall**

- Gently shake the fruit bearing trees to remove snow immediately from the branches in areas with heavy snowfall.

### **Agromet advisories for likely impact of Hailstorm**

- Use hail nets to protect orchards and vegetable plants in Sub Himalayan West Bengal & Sikkim and Chhattisgarh

### **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 hours to protect crops from low temperature stress. Use mulching and cover the vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

### **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.

### **Livestock / Poultry**

- Keep the animals inside the shed during heavy rainfall/ Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.
- To protect from cold, keep cattle inside the sheds during night and provide dry bedding. Also keep the chicks warm by providing artificial light in the poultry sheds.

### **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

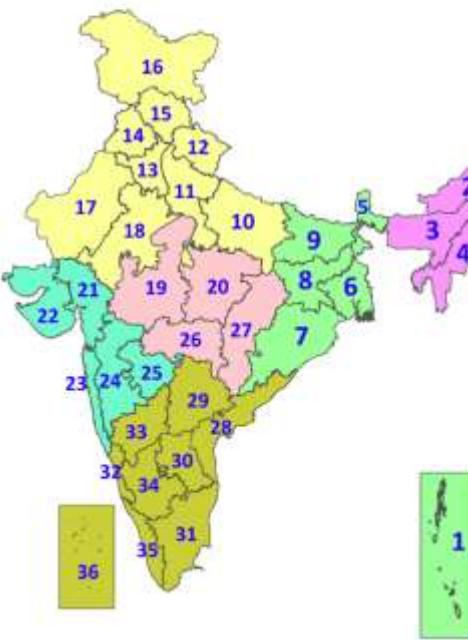
32. तटीय कर्नाटक

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

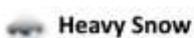
34. South Interior Karnataka

35. Kerala & Mahe

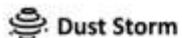
36. Lakshadweep

## 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)		



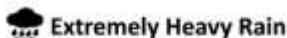
### COLOUR CODED WARNING



No Warning (No Action)



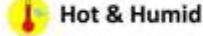
Watch (Be Aware)



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

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(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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