

Saturday, January 18, 2025  
Time of Issue: 0800 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### Weather Systems, Forecast and warning:

- ❖ Under the influence of Western Disturbance as a trough in lower and middle tropospheric levels roughly along Long. 58°E to the north of Lat. 30°N, isolated to scattered rainfall/snowfall likely over Western Himalayan Region till 20<sup>th</sup>.
- ✓ The distribution and intensity of rainfall/snowfall likely to increase over Western Himalayan region during 21<sup>st</sup>-23<sup>rd</sup> January (with peak intensity on 22<sup>nd</sup> & 23<sup>rd</sup>) due to the likely merging of a fresh Western disturbance with the above system. Isolated to scattered rainfall is also likely over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and West Uttar Pradesh during 21<sup>st</sup>-23<sup>rd</sup> January.
- ✓ Thunderstorm activity at isolated places likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 21<sup>st</sup> January.
- ❖ Light to moderate rainfall accompanied with thunderstorm & lightning very likely at a few places over Tamil Nadu, Puducherry & Karaikal on 18<sup>th</sup> & 19<sup>th</sup> and Kerala & Mahe on 19<sup>th</sup> January. Isolated **heavy rainfall** likely over Tamilnadu, Puducherry & Karaikal during 18<sup>th</sup>-19<sup>th</sup> and Kerala & Mahe on 19<sup>th</sup> January.

#### ii. Temperature, Cold Day and Fog Forecast:

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

- ❖ Minimum temperatures were **below 0°C** over many parts of Jammu, Kashmir & Ladakh; **1-5°C** over some parts of Himachal Pradesh; **6-10°C** over many parts of Northwest India; **10-15°C** over many parts of Central & East India; **15-20°C** over many parts of West India. Today, the lowest minimum temperature of **6.3°C** is reported at **Nahan (Haryana)** over the plains of the country.
- ❖ During the past 24 hours, there has been **fall in minimum temperatures by 3-5°C** in some parts of Himachal Pradesh; by **1-3°C** in many parts of Odisha; in some parts of Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, Tamilnadu Puducherry & Karaikal; in isolated pockets of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Rajasthan, Telangana and **rise by 1-3°C** in some parts of Bihar, West Bengal & Sikkim, Gujarat State; in isolated pockets of East Madhya Pradesh, Assam & Meghalaya, Chhattisgarh and Madhya Maharashtra.
- ❖ Minimum temperatures were **below normal (-1°C to -3°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad. These were **appreciably above normal (3°C to 5°C)** at isolated places over West Madhya Pradesh, Konkan & Goa, Bihar; **above normal (1°C to 3°C)** at isolated places over East Uttar Pradesh, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam, Madhya Maharashtra, Sub-Himalayan West Bengal & Sikkim, East Madhya Pradesh, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and near normal over rest part of the country.

##### Forecast of temperature:

- ❖ Gradual rise in minimum temperatures by 2-3°C likely over Gujarat Region during next 24 hours and no significant change thereafter.
- ❖ No significant change in minimum temperatures likely over northwest India during next 24 hours and gradual rise by 2-3°C thereafter.
- ❖ No significant change in minimum temperatures likely over Central & East India and Maharashtra region during next 4-5 days.

##### Cold Wave Warnings:

**Cold wave** conditions very likely in isolated pockets over Himachal Pradesh during 18<sup>th</sup>-19<sup>th</sup> January.

##### Dense Fog Warnings:

**Dense to very Dense fog Condition** very likely to continue to prevail during night/early morning hours in some parts of Punjab, Haryana, Chandigarh on 18<sup>th</sup>; in isolated pockets of Punjab, Haryana, Chandigarh on 19<sup>th</sup>; East Rajasthan on 18<sup>th</sup> January.

**Dense fog conditions** very likely to continue to prevail during night/early morning hours in isolated pockets of Uttarakhand till 18<sup>th</sup>; Uttar Pradesh & West Rajasthan on 18<sup>th</sup> & 19<sup>th</sup>; East Rajasthan on 19<sup>th</sup> & 20<sup>th</sup>; Himachal Pradesh till 20<sup>th</sup> January.

##### Cold Day Warnings:

**Cold day** conditions very likely in isolated pockets of Punjab, Haryana, Chandigarh on 18<sup>th</sup> January.

##### Fishermen Warnings (Annexure V):

Fishermen are advised not to venture into Comorin area & adjoining Gulf of Mannar during 18<sup>th</sup>-19<sup>th</sup>.

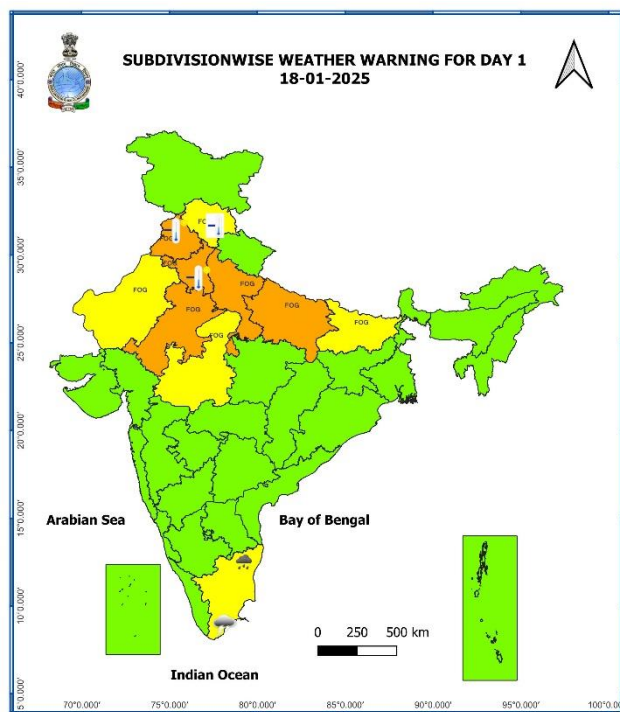
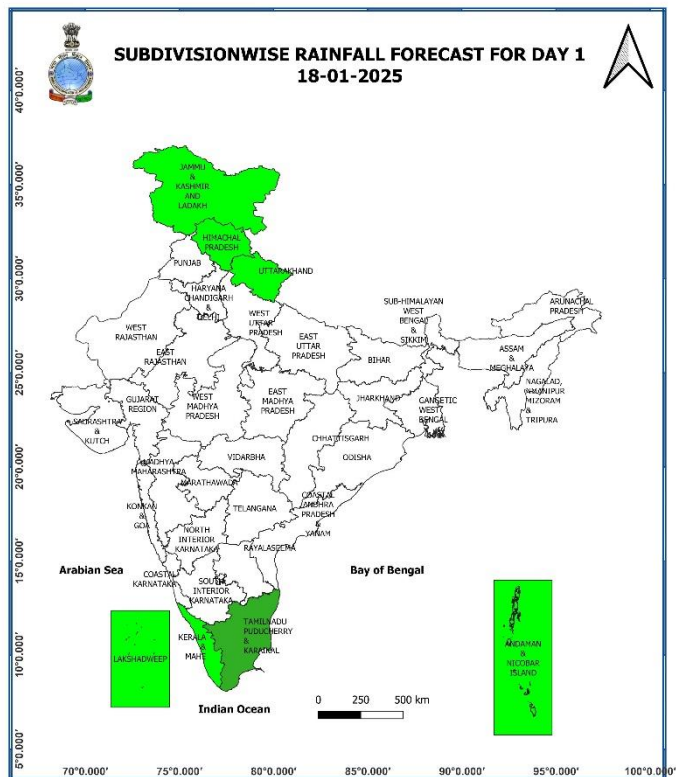
### Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at isolated places** over Andaman & Nicobar Islands.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Nil.**
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Nil.**
- ❖ Yesterday, **Cold day conditions** prevailed in isolated pockets of East Rajasthan.
- ❖ **Fog recorded** (at 0530 hours IST of today): **Dense to very dense fog** reported in isolated pockets of West Rajasthan, Uttar Pradesh, West Madhya Pradesh; **Dense fog** reported in isolated pockets of East Rajasthan, Punjab and Haryana-Chandigarh-Delhi.
- ❖ **Visibility reported** (at 0530 hours IST of today) ( $\leq 200$  m): **West Rajasthan:** Churu 0, Ganganagar 200; **East Rajasthan:** Jaipur 200; **East Uttar Pradesh:** Lucknow, Sultanpur 0 each, Bahraich, Varanasi 200 each; **West Uttar Pradesh:** Bareilly 0, Jhansi 0 each; **West Madhya Pradesh:** Gwalior 0; **Bihar:** Purnea 0; **Punjab:** Patiala 200; **Chandigarh:** Chandigarh 200; **Delhi:** Palam 200.
- ❖ **Minimum Temperature Departures (as on 17-01-2025):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over West Madhya Pradesh, Konkan & Goa, Bihar; **above normal (1.6°C to 3.0°C)** at isolated places over East Uttar Pradesh, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam, Madhya Maharashtra, Sub-Himalayan West Bengal & Sikkim, East Madhya Pradesh, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad **and near normal** over rest part of the country (Fig. 4). Yesterday, the **lowest minimum temperature** of **2.8°C** was reported at **Pathankot (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 17-01-2025):** Maximum temperatures were **appreciable above normal (3.1°C to 5.0°C)** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Konkan & Goa; **above normal (1.6°C to 3.0°C)** at many places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Kerala & Mahe and West Uttar Pradesh. These were **markedly below normal (-5.1°C or less)** at isolated places over Haryana-Chandigarh-Delhi, Rajasthan, West Madhya Pradesh, Jharkhand and Punjab; **below normal (-1.6°C to -3.0°C)** at a few places over Gujarat Region; at isolated places over Saurashtra & Kutch, Telangana, Odisha, East Madhya Pradesh, Rayalaseema, Madhya Maharashtra, Interior Karnataka and near normal over rest part of the country (Fig. 2). Yesterday, the **highest maximum temperature** of **35.9°C** was reported at **Thiruvananthapuram (Kerala)** over the plains of the country.

### Meteorological Analysis (Based on 0530 hours IST)

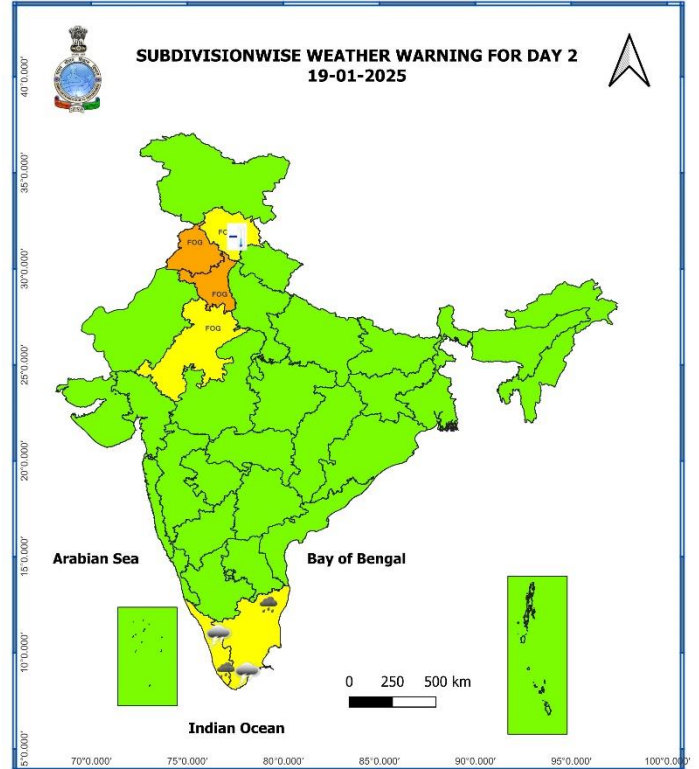
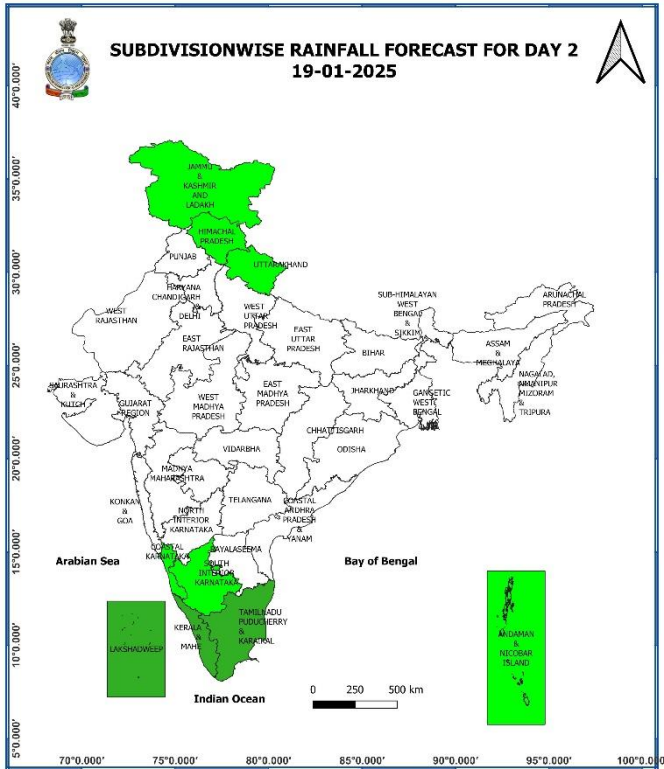
- ❖ The **Western Disturbance** as a cyclonic circulation over northwest Uttar Pradesh & neighbourhood at 3.1 km above mean sea level persists.
- ❖ Another **Western Disturbance** as a trough in lower and middle tropospheric level with its axis at 3.1 km above mean sea level now runs roughly along Long. 58°E to the north of Lat. 30°N.
- ❖ The **cyclonic circulation** over northeast Assam & neighbourhood at 3.1 km above mean sea level persists.
- ❖ Subtropical **westerly Jet Stream** with core winds of the order upto 130 knots at 12.6 km above mean sea level is prevailing over North India.

**Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 25<sup>th</sup> January, 2025)**



**18<sup>th</sup> January (Day 1):**

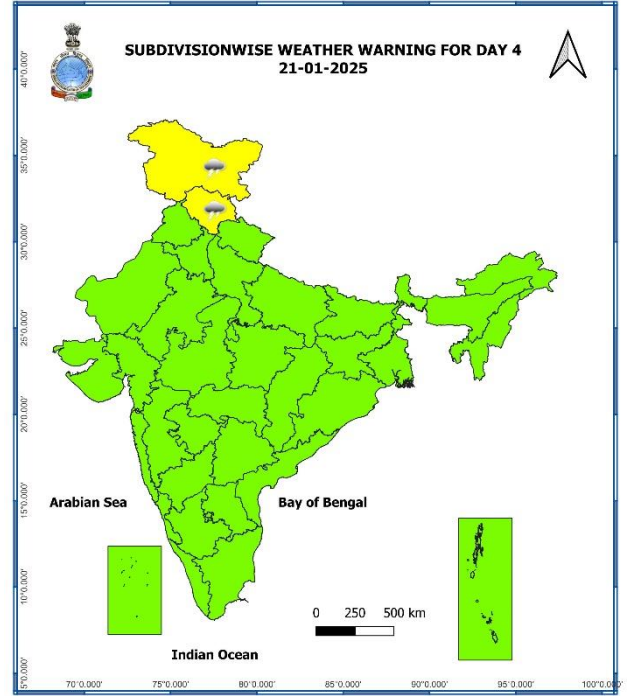
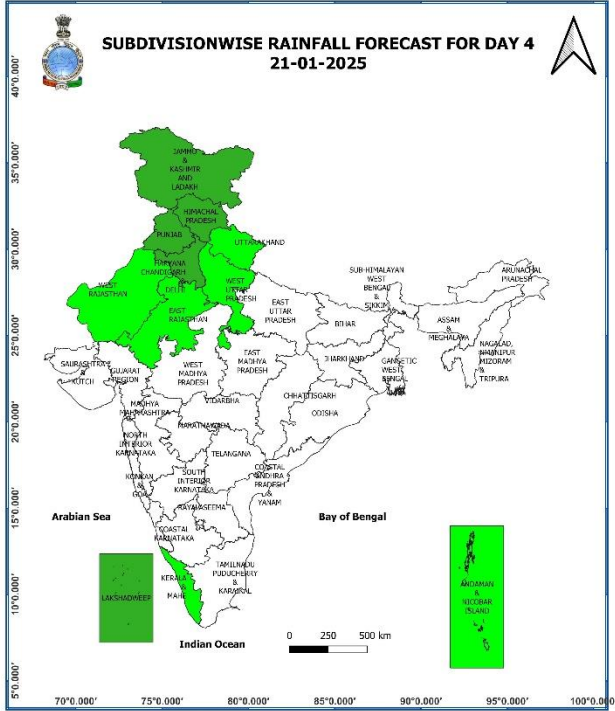
- ❖ **Heavy rainfall ( $\geq 7$  cm)** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- ❖ **Dense to very dense fog conditions** very likely at a few places over Uttar Pradesh, Punjab and Haryana-Chandigarh; at isolated places over East Rajasthan; **dense fog conditions** likely at isolated pockets of Himachal Pradesh, Bihar, northwest Madhya Pradesh, West Rajasthan during night/morning hours.
- ❖ **Cold day conditions** very likely in isolated pockets of Punjab, Haryana-Chandigarh.
- ❖ **Cold wave conditions** very likely in isolated pockets of Himachal Pradesh.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over Comorin area and adjoining gulf of Mannar. Fishermen are advised not to venture in to these areas.



### 19<sup>th</sup> January (Day 2):

- ❖ **Heavy rainfall ( $\geq 7$  cm)** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Cold wave conditions** very likely in isolated pockets of Himachal Pradesh.
- ❖ **Dense to very dense fog conditions** very likely at isolated pockets over Punjab, Haryana-Chandigarh; **Dense fog conditions** likely in isolated pockets of Himachal Pradesh, East Rajasthan during night/morning hours.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over Comorin area and adjoining gulf of Mannar. Fishermen are advised not to venture in to these areas.

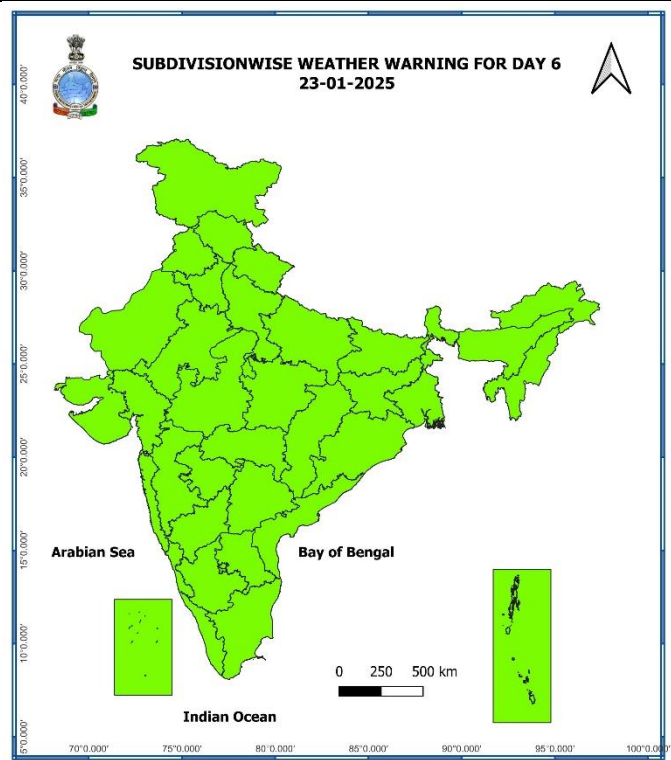
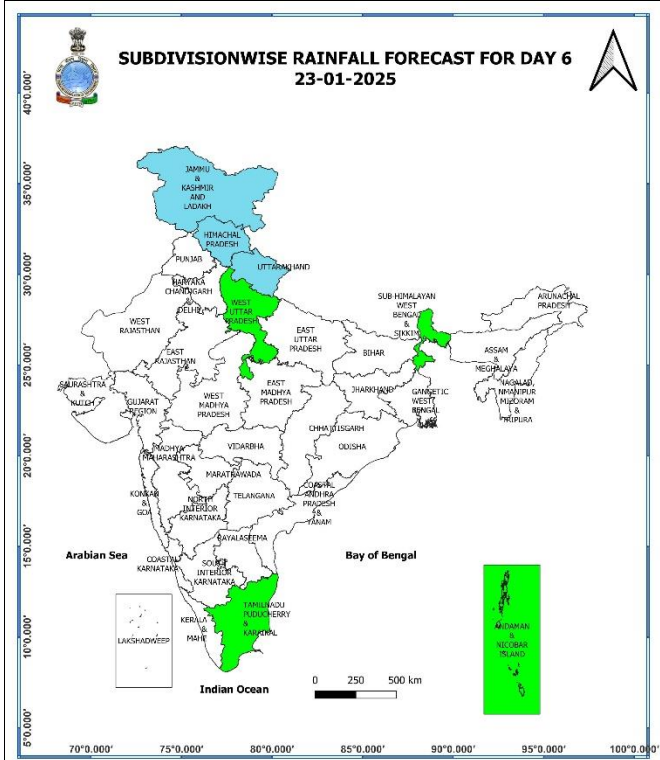




**21<sup>st</sup> January (Day 4):**

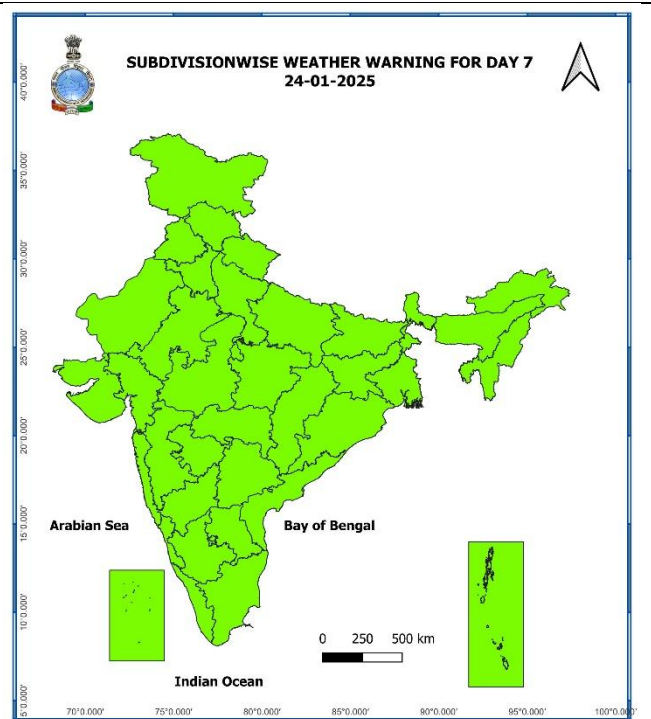
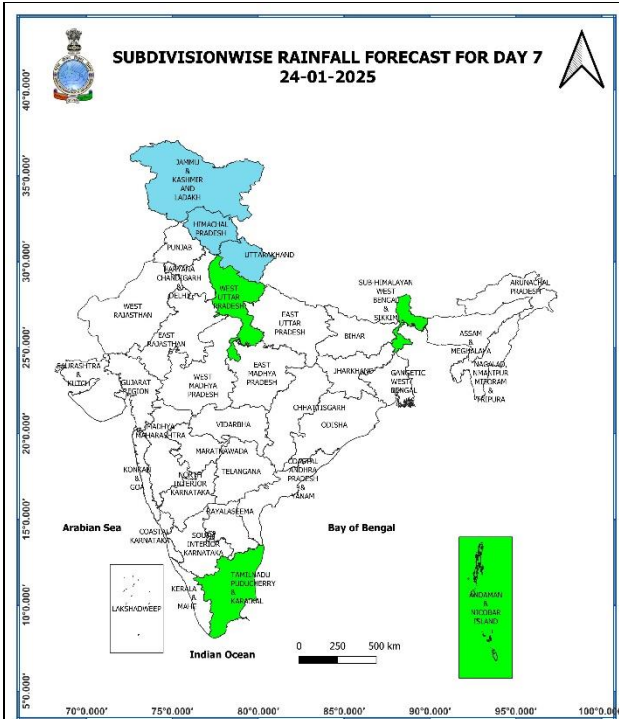
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh.





**23<sup>rd</sup> January (Day 6):**

❖ **No Weather Warning.**



**24<sup>th</sup> January (Day 7):**

❖ **No Weather Warning.**

**Weather Outlook for subsequent 3 days (During 25<sup>th</sup> January– 27<sup>th</sup> January, 2025)**

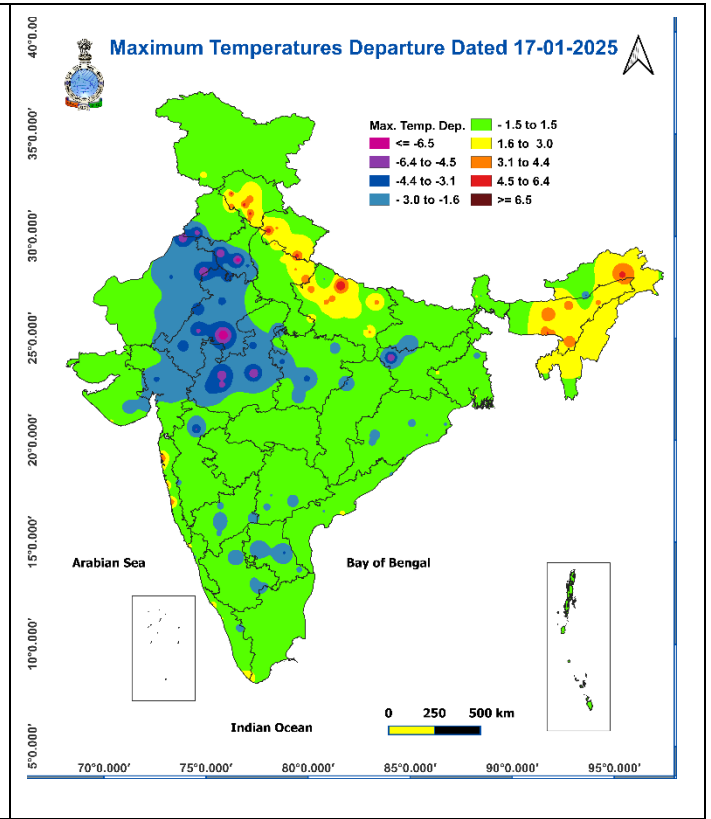
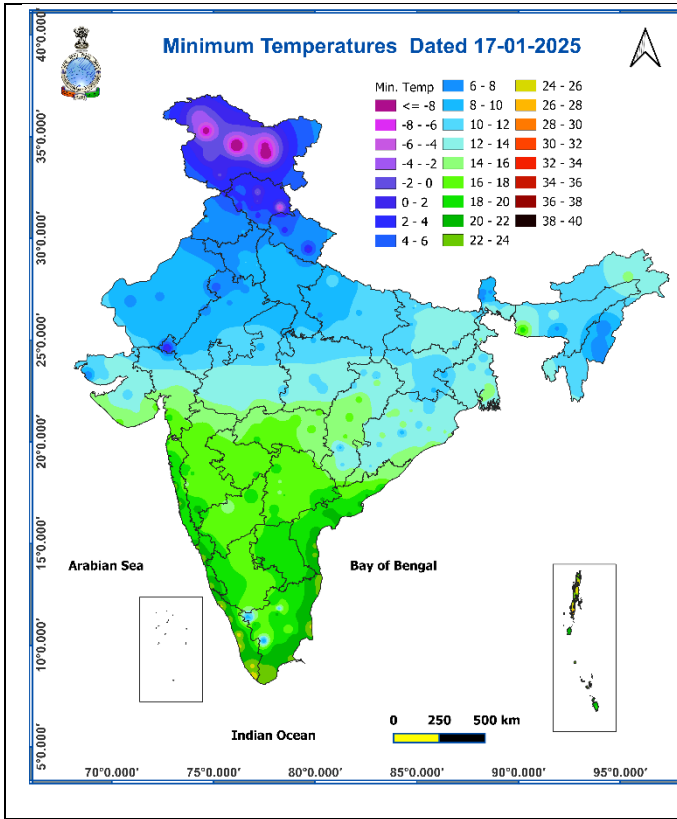
- ❖ Fairly widespread to widespread rainfall/snowfall over western Himalayan region & scattered to fairly widespread rainfall over adjoining plains of Northwest India.
- ❖ Isolated rainfall over Tamil Nadu and scattered to fairly widespread rainfall over Nicobar Islands.
- ❖ Isolated rainfall/snowfall over Arunachal Pradesh.

Action may be taken based on **ORANGE AND RED** COLOUR warnings.

- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

**Fig. 1: Maximum Temperatures**

**Fig. 2: Departure of Maximum Temperatures**



**Fig. 3: Minimum Temperatures**

**Fig. 4: Departure of Minimum Temperatures**

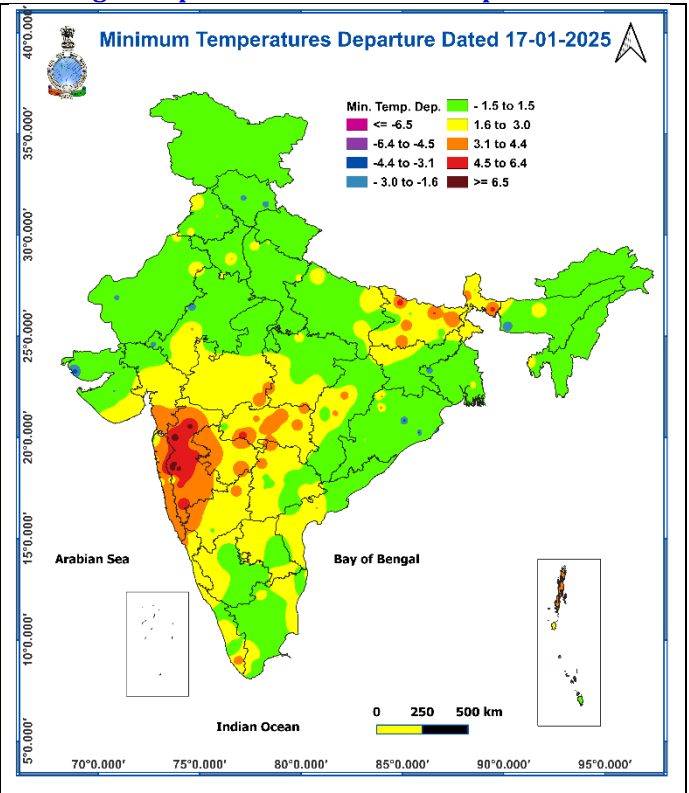
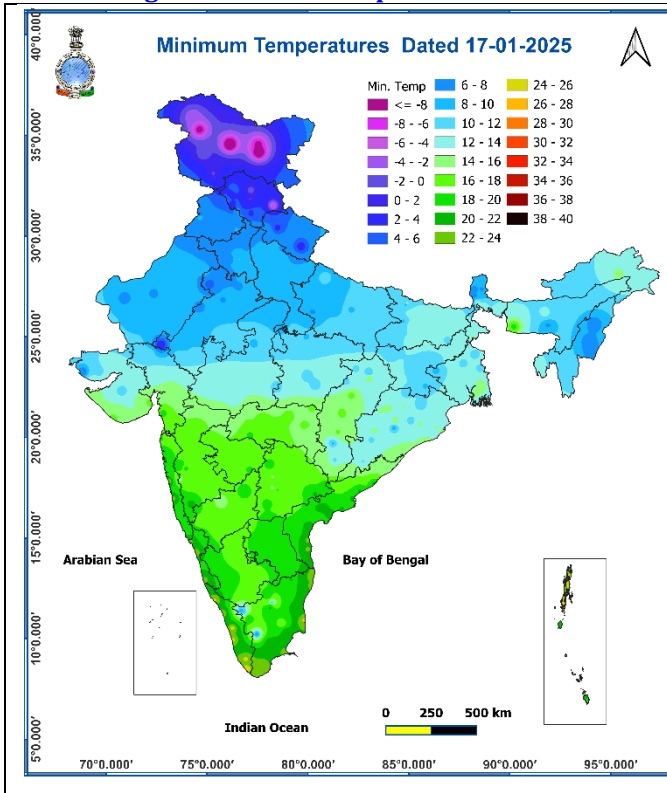
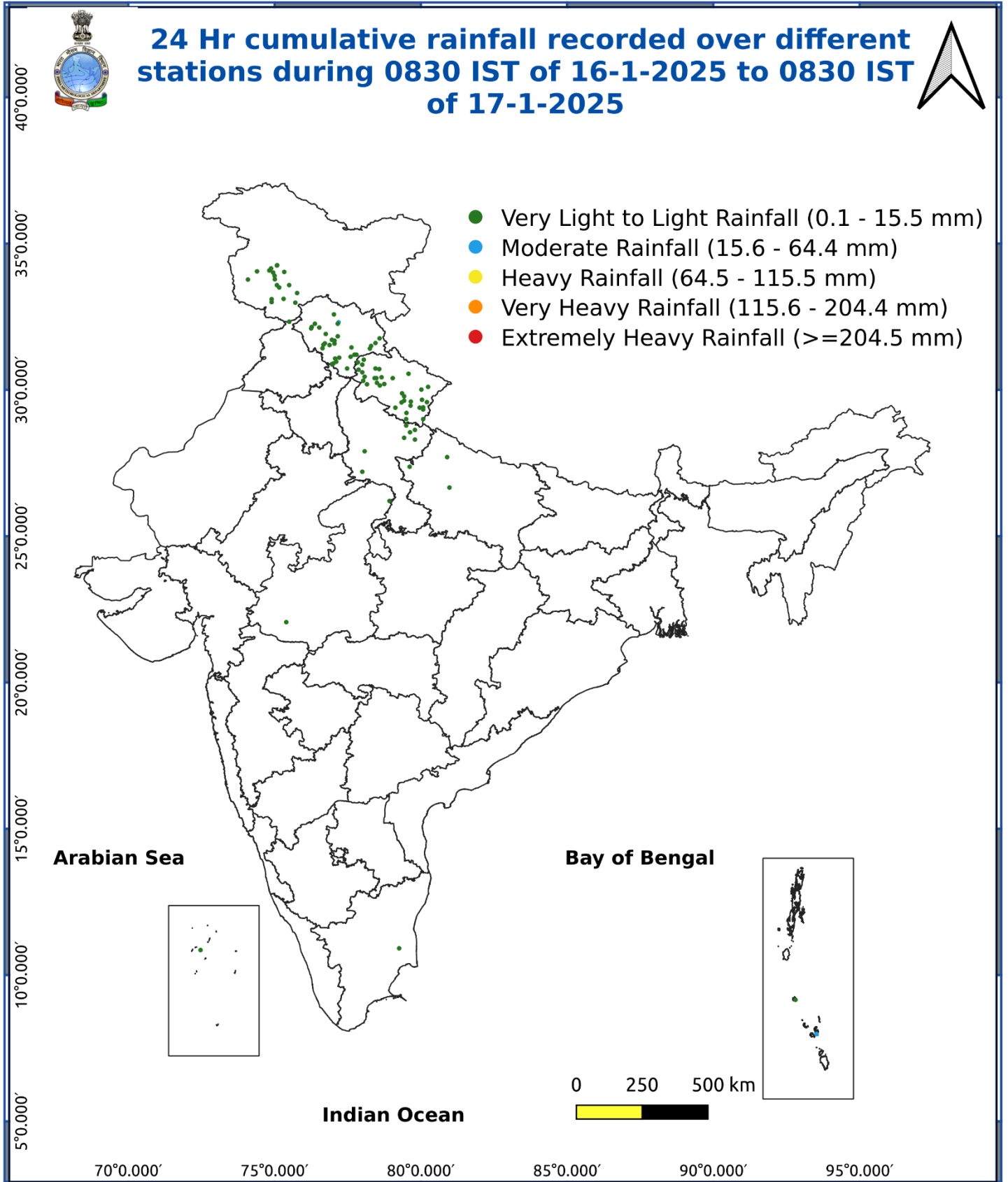


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



\* 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)

### Impact expected due to dense/very dense fog in the night /morning hour:

#### ❖ 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 Day/Severe Cold day conditions

- ❖ An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- ❖ Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- ❖ Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- ❖ Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

### Action suggested:

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

### Agromet advisories for likely impact of Heavy Rainfall / Cold Wave/ Ground Frost

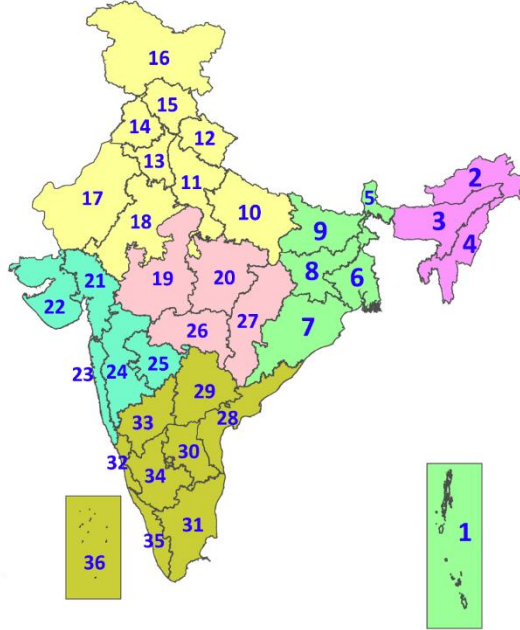
- In **Himachal Pradesh** and **Uttarakhand**, apply light and frequent irrigation to the standing crops in the evening to protect them from low temperature stress or cold injuries. Use mulching and cover vegetable nurseries and young fruit plants with straw/polythene sheets to maintain optimum soil temperature.
- Drain out excess water from rice, sugarcane, cotton, vegetables and other standing crop fields, as well as orchards in **Tamil Nadu** and keep the harvested produce in safe places.
- Provide mechanical support to horticultural crops and staking to vegetables.

### Livestock

- Keep the animals inside the shed during heavy rainfall 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

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

## 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 Strom: Wind speed  $>220$  kmph ( $>119$  knots)