

2026-01-10

Time of Issue: 13:35:00 hours IST  
(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and warning:

- **Heavy to very rainfall** very likely at isolated places over Tamil Nadu on 10<sup>th</sup> and **heavy rainfall** at isolated places over the same region on 11<sup>th</sup> January, 2026.
- Thunderstorm/lightning very likely over Tamil Nadu, Puducherry & Karaikal during 10<sup>th</sup> – 12<sup>th</sup> January.

#### Forecast of minimum temperatures:

- No significant change in minimum temperature likely over northwest India and Madhya Pradesh during next 7 days.
- Gradual rise in minimum temperature likely over Vidarbha and Chhattisgarh by about 2°C during next 4 days and thereafter no significant change for next 3 days.
- Gradual rise in minimum temperature likely over East India by about 2°C during next 2 days and thereafter no significant change for next 5 days.
- Gradual rise in minimum temperature likely over Northeast India by 2-3°C during next 3 days and thereafter no significant change for next 4 days.
- No significant change in minimum temperature likely over Maharashtra during next 2 days and gradual rise by 2-3°C during subsequent 3 days and thereafter no significant change for next 2 days.
- No significant change in minimum temperature likely over Gujarat State during next 2 days and gradual rise by 2-3°C during subsequent 2 days, and thereafter gradual fall by 2-3°C for next 3 days.

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

- **Dense to very dense fog** conditions very likely to prevail in morning hours in isolated pockets over Punjab Haryana and Chandigarh till 12<sup>th</sup> and Dense fog in isolated pockets till 17<sup>th</sup> January 2026.
- **Dense to very dense fog** conditions very likely to prevail in morning hours in isolated parts over Rajasthan till 11<sup>th</sup> January and Dense fog in isolated pockets till 13<sup>th</sup> January 2026.
- **Dense fog** conditions also likely during morning hours in isolated/some pockets over Jammu division till 12<sup>th</sup>; Himachal Pradesh, Uttarakhand till 15<sup>th</sup>; Uttar Pradesh and Bihar till 17<sup>th</sup>; Delhi and north Madhya Pradesh till 11<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim till 13<sup>th</sup>; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura till 11<sup>th</sup> and on 14<sup>th</sup> & 15<sup>th</sup> January.
- **Cold day conditions** likely to prevail in isolated parts over Punjab, Haryana, Chandigarh & Sub-Himalayan West Bengal & Sikkim on 10<sup>th</sup>; Rajasthan on 10<sup>th</sup> & 11<sup>th</sup>; Bihar during 10<sup>th</sup> -14<sup>th</sup> January.
- **Cold wave to Severe Cold wave** conditions very likely in isolated pockets of Rajasthan on 12<sup>th</sup> & 13<sup>th</sup> and **cold wave** conditions very likely in isolated pockets of Rajasthan during 11<sup>th</sup> to 14<sup>th</sup>, Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, Odisha on 11<sup>th</sup> & 12<sup>th</sup>; Uttarakhand, Jharkhand and North Interior Karnataka on 11<sup>th</sup> January.

#### Wind Warning:

##### (a) Southwest Bay of Bengal and along & off Sri Lanka coast, Gulf of Mannar and adjoining Comorin Area:

Squally weather with wind speed reaching 45-55 gusting to 65 kmph is currently prevailing over the region. It would gradually decrease becoming 40-50 gusting to 60 kmph by 10<sup>th</sup> afternoon and 25-35 gusting to 45 kmph by 10<sup>th</sup> midnight.

##### (b) Along & off Tamilnadu-Puducherry coasts

Squally weather with wind speed reaching 40-50 gusting to 60 kmph is very likely to prevail till 10<sup>th</sup> afternoon. It would gradually decrease thereafter.

Squally weather with wind speed reaching 35-45 gusting to 55 kmph is very likely to prevail along and off North Tamil

**\*Red color warning does not mean "Red Alert" Red color 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)

Nadu & Puducherry coasts on 10<sup>th</sup> January and decrease thereafter.

**Sea Condition:**

- Sea condition is very likely to be rough over southwest Bay of Bengal, Gulf of Mannar & adjoining Comorin area and along & off Sri Lanka coast on 10<sup>th</sup> January and improve gradually thereafter.
- Sea condition is very likely to be rough along & off Tamilnadu-Puducherry coasts on 10<sup>th</sup> January and improve gradually thereafter.

**Fishermen Warning:**

Fishermen are advised not to venture into southwest Bay of Bengal, Gulf of Mannar and adjoining Comorin area and along & off Sri Lanka & Tamilnadu-Puducherry coasts on 10<sup>th</sup> January.

### Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places** over Andaman & Nicobar Islands; **at isolated places** over West Uttar Pradesh and Tamil Nadu, Puducherry & Karaikal; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Tamil Nadu, Puducherry & Karaikal:** Alangudi (dist Pudukkottai), R.s.mangalam (dist Ramanathapuram), Tiruvadana (dist Ramanathapuram), Tondi (dist Ramanathapuram), Pattukottai (dist Thanjavur), Ulundurpet (dist Kallakurichi), Avudayarkoil (dist Pudukkottai), Dscl Eraiyyur (dist Kallakurichi), Ayinkudi (dist Pudukkottai), Echanviduthi (dist Thanjavur) 1 Each.

❖ **Fog Condition Observed (at 0830 hours of today):** **Dense to very Dense fog conditions** prevailed in many parts of Punjab; some parts of Uttar Pradesh, Haryana and in isolated pockets over Rajasthan, Jammu and Bihar; **dense fog** conditions prevailed in isolated pockets over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Odisha.

❖ **Visibility reported (at 0830 hours of today):** **Jammu:** Jammu Airport(0), Udampur (500); **Uttarakhand:**Laksar (50), Roorkee (50), Khatima (75); **Punjab:**Faridkot(25), Bathinda(<50), Amritsar(0), Adampur(<50), Halwara(50),Gurdaspur(60), Patiala(100), Ludhiana(50); **Haryana:**Narnaul(10), Karnal(30), Bhiwani(20),Hisar(70); **West Uttar Pradesh:**Agra(IAF), Sarsawa(IAF)(00) Each, Aligarh(30), Muzaffarnagar & Hamirpur(100) Each, Meerut & Agra Taj(150) Each; **East Uttar Pradesh:**Prayagraj(IAF) & Kanpur(IAF)-(00) Each, Baharaich(20), Gorakhpur(0), Ballia & Fursatganj(50), Basti, Kushinagar, Azamgarh, Ghazipur, Prayagraj(0), Gorakhpur(IAF)(100); **West Rajasthan:** Jawai Dam(50),Phalodi(50),Churu(30),Ganganagar(30),Bikaner(100),Jaisalmer(40); **East Rajasthan:**Kota(200), Dabok(200), Bhilwara(100), Pilani(50), Sikar(50); **Bihar:**Valmikinagar (40), Gaya(50),Patna(100); **Sub-Himalayan West Bengal & Sikkim:**Coochbehar(100), Bagdogra(250), Jalpaiguri(50-199); **Assam:**Dhubri(100); Tripura:Agartala(100).

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

❖ **Minimum Temperature Departures (as on 10-01-2026):** **markedly below normal (-5.0 °C or less)** at isolated places over Odisha; **appreciably below normal (-5.0°C to -3.1°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttar Pradesh, West Madhya Pradesh, Saurashtra & Kutch, Chhattisgarh, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam; at a few places over Telangana; **below normal (-3.0°C to -1.6°C)** at isolated places over Uttarakhand, Haryana-Chandigarh-Delhi, East Rajasthan, East Madhya Pradesh, Jharkhand, Maharashtra, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe; at a few places over Lakshadweep. **The lowest minimum temperature** of 1.3°C is reported at Amritsar (Punjab) over the Plains of India.

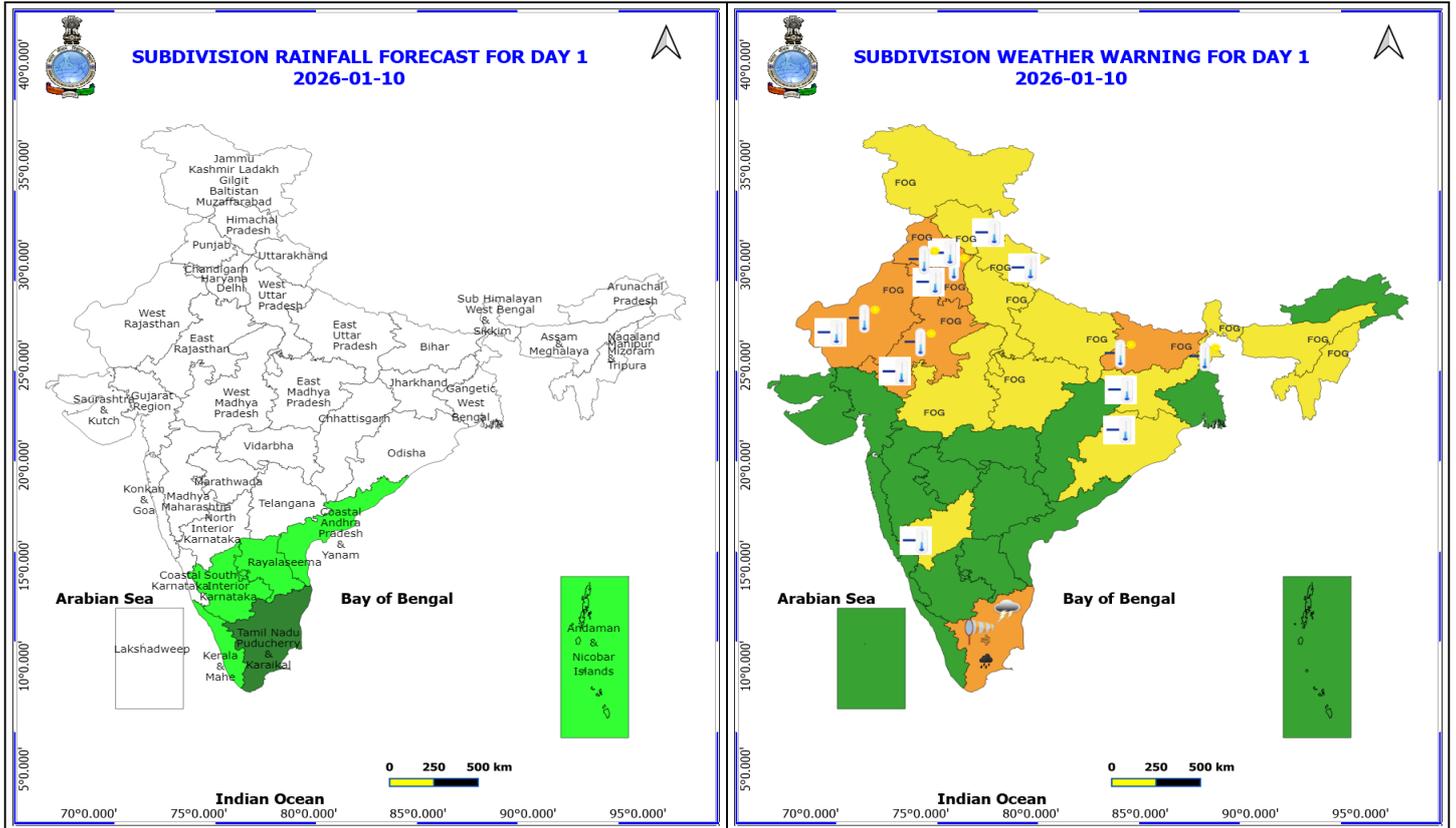
❖ **Maximum Temperature Departures (as on 09-01-2026):** **below normal(-1.6°C to -3.0°C)** at most places over South Interior Karnataka; at few places over East Rajasthan; at isolated places over Bihar. **The highest maximum temperature** of 35.5°C is reported at KOTTAYAM (KERALA).

### Meteorological Analysis (Based on 0830 hours IST)

- The **depression** over southwest Bay of Bengal off northeast Sri Lanka coast moved west-northwestwards with a speed of 15 kmph during past 6 hours and lay centred at 0830 hours IST of today, the 10th January, 2026, over the same region near latitude 9.1°N and longitude 81.2°E, about 50 km east-southeast of Mullaittivu (Sri Lanka), 60 km north-northeast of Trincomalee (Sri Lanka), 140 km east-southeast of Jaffna (Sri Lanka), 250 km southeast of Karaikal (Puducherry) and 450 km south-southeast of Chennai (Tamil Nadu). It is very likely to continue to move west-northwestwards and cross north Sri Lanka coast between Trincomalee and Jaffna close to Mullaittivu as a depression by noon/afternoon of today, 10th January, 2026.
- The **Western disturbance** as an **upper air cyclonic circulation** over north Pakistan & adjoining Punjab between 3.1 & 4.5 km above mean sea level with a trough aloft in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 71°E to the north of Lat. 30°N persists.
- The **induced upper air cyclonic circulation** over Haryana at 1.5 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 190 knots at 12.6 km above mean sea level prevails over northwest India.
- The **Upper air cyclonic circulation** over northeast Assam & neighbourhood persists and now seen between 1.5 & 3.1 km above mean sea level.
- The **Upper air cyclonic circulation** over southeast Arabian sea & adjoining south Kerala coast at 1.5 km above mean sea level has become less marked.

### Weather Outlook for subsequent 3 days

Isolated rainfall activity likely over Western Himalayan Region and Nicobar islands.

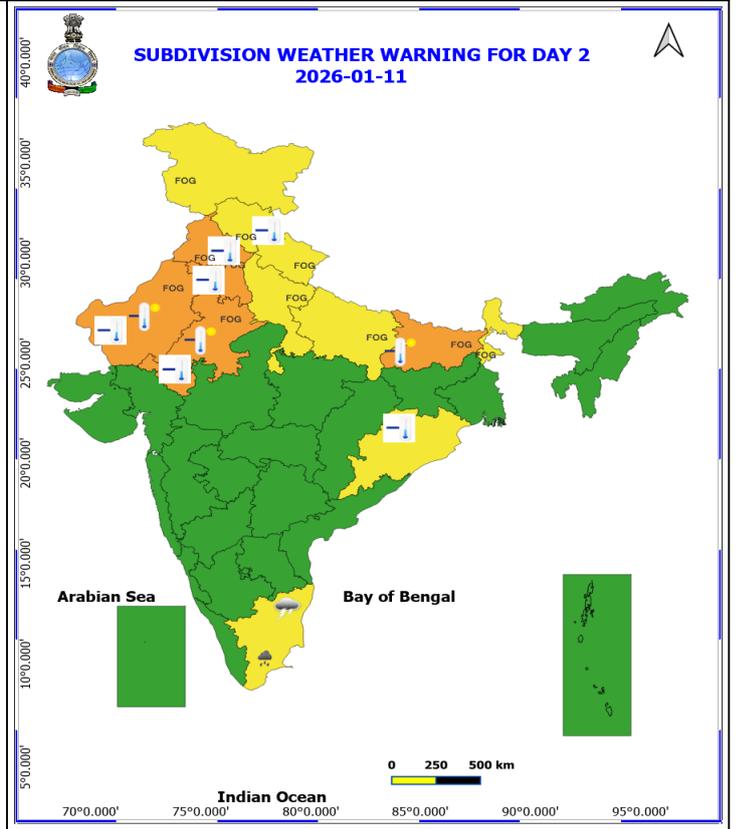
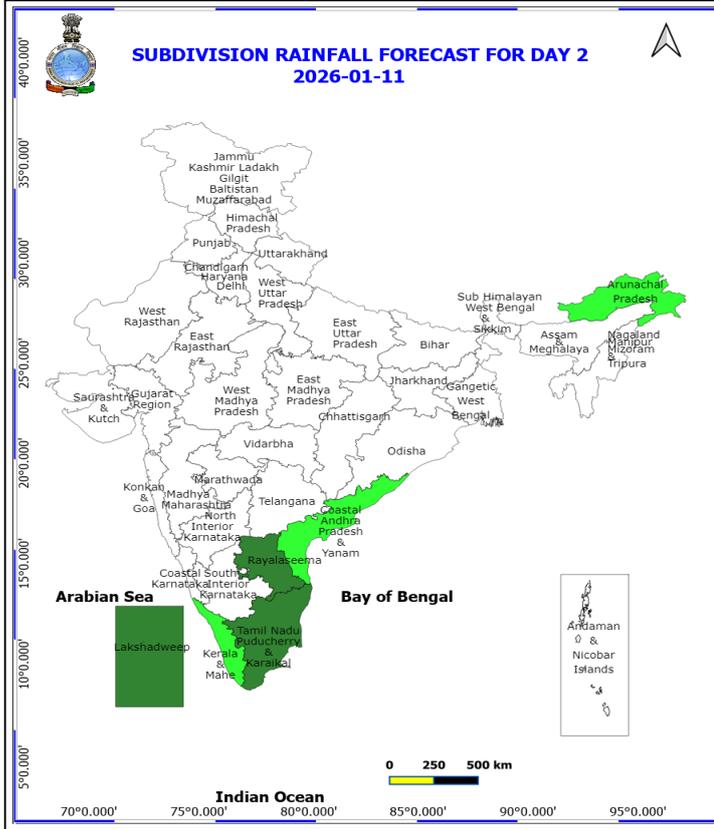


**10 January (Day 1)**

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Strong Surface Winds** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Jharkhand, North Interior Karnataka, Odisha, Punjab, Rajasthan and Uttarakhand.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab, Rajasthan and Sub Himalayan West Bengal & Sikkim.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Rajasthan.
- ❖ **Squally weath**er with wind speeds reaching 40-50 gusting to 60 kmph over Southwest Bay of Bengal and adjoining areas of East Equatorial Indian Ocean, along & off Sri Lanka coast, Gulf of Mannar and adjoining Comorin Area, along & off Tamilnadu - Puducherry coasts. Squally weather with wind speed reaching 35-45 gusting to 55 kmph is very likely to prevail along and off North Tamil Nadu & Puducherry coasts.

**\*Red color warning does not mean "Red Alert" Red color 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

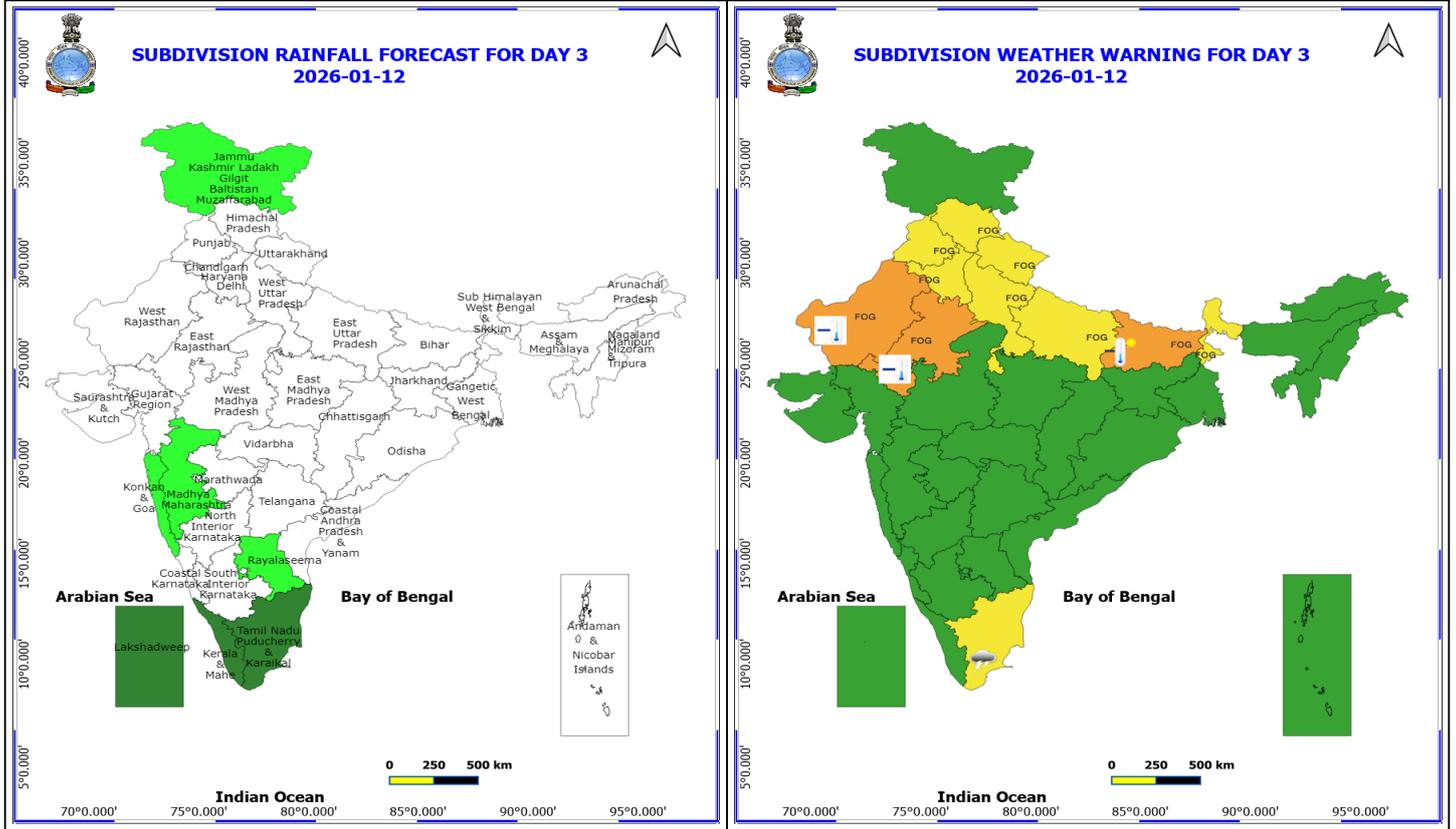
(Service to the nation since 1875)



**11 January (Day 2)**

- ❖ **Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Odisha and Punjab.
- ❖ **Cold wave to Severe Cold wave conditions** very likely at isolated places over Rajasthan.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar and Rajasthan.
- ❖ **Dense Fog** very likely at isolated places over Bihar, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.

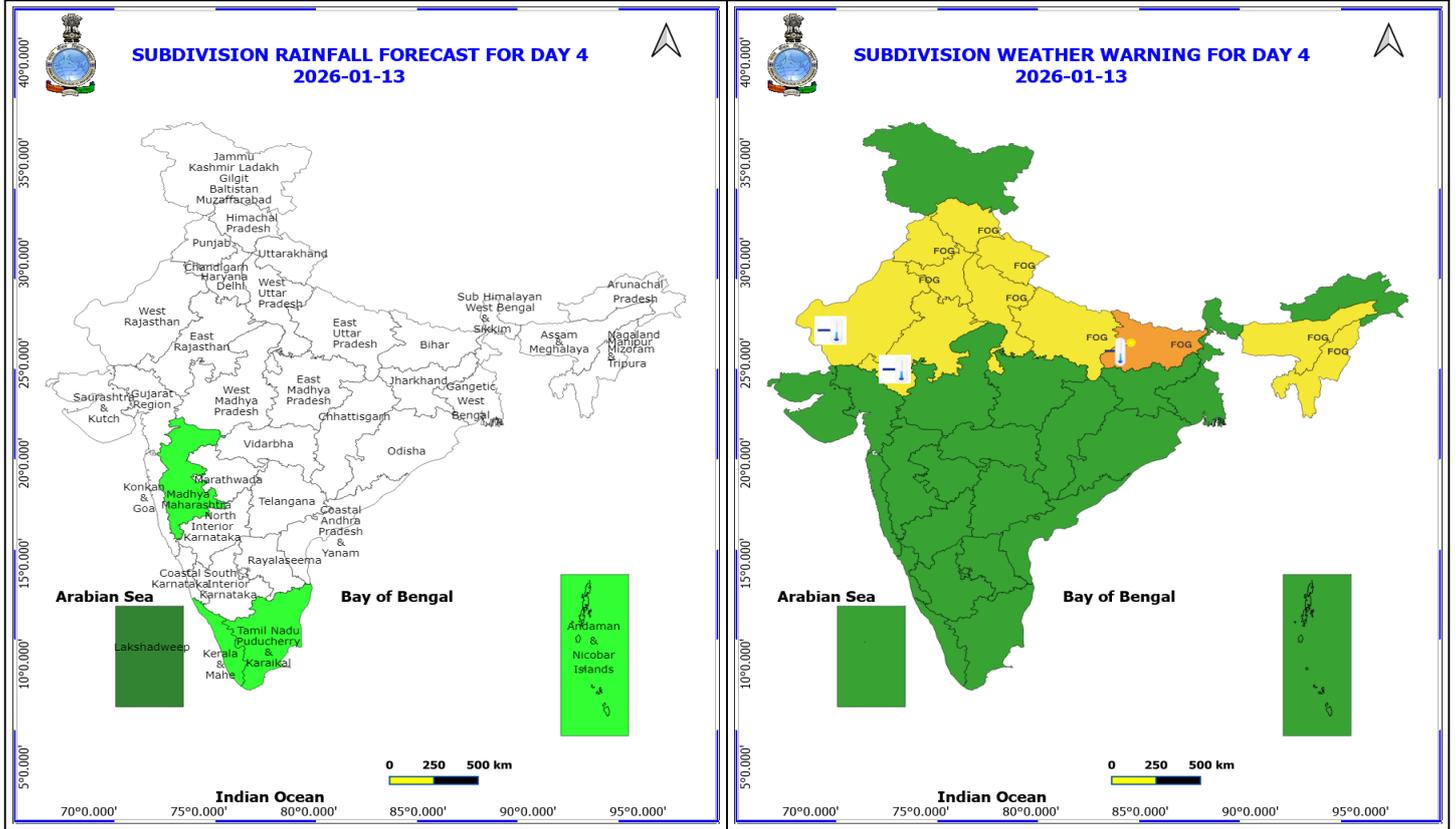
**No Fishermen Warning**



**12 January (Day 3)**

- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave to Severe Cold wave conditions** very likely at isolated places over Rajasthan.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar.
- ❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Punjab, Rajasthan, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.

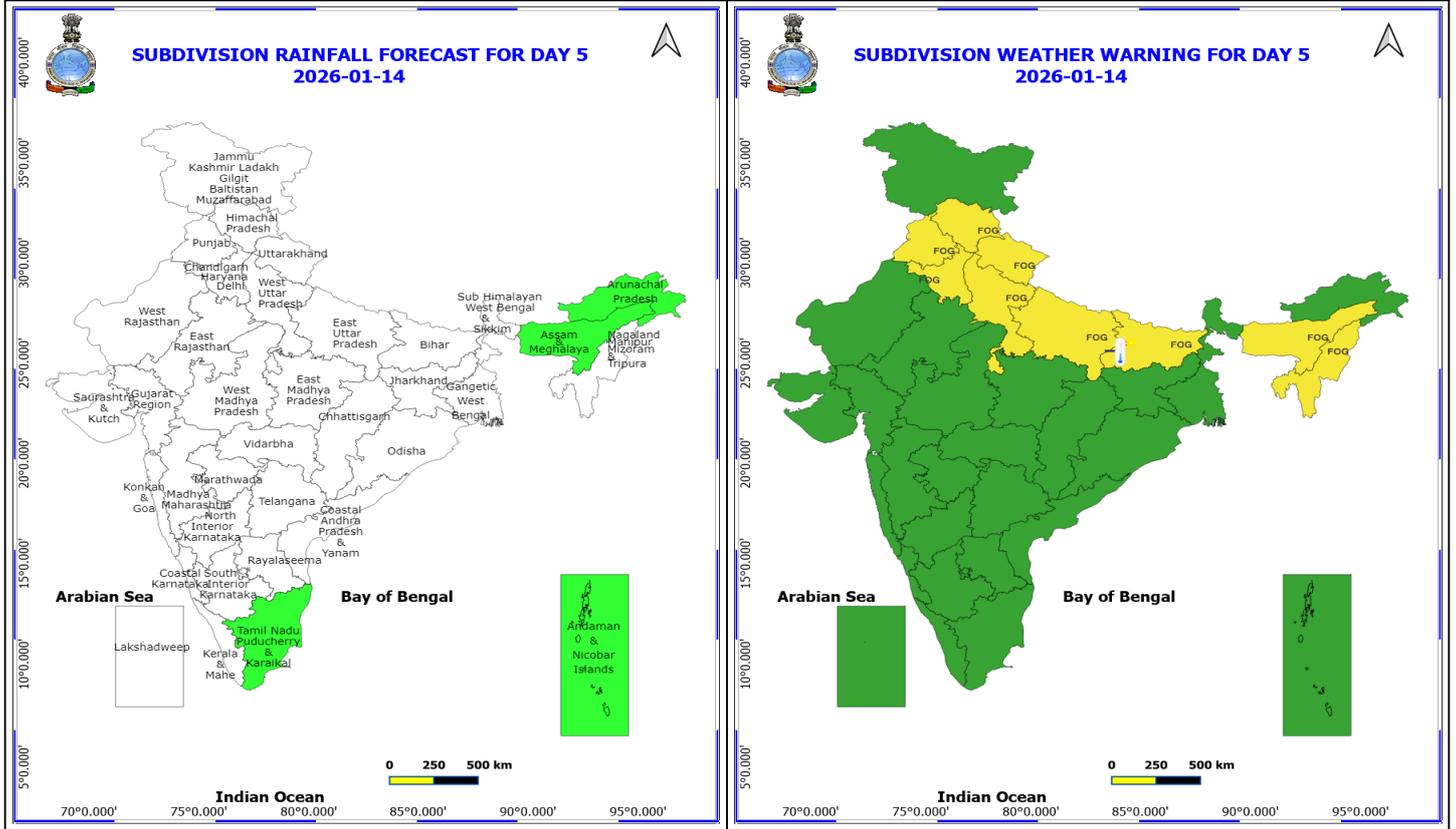
**No Fishermen Warning**



**13 January (Day 4)**

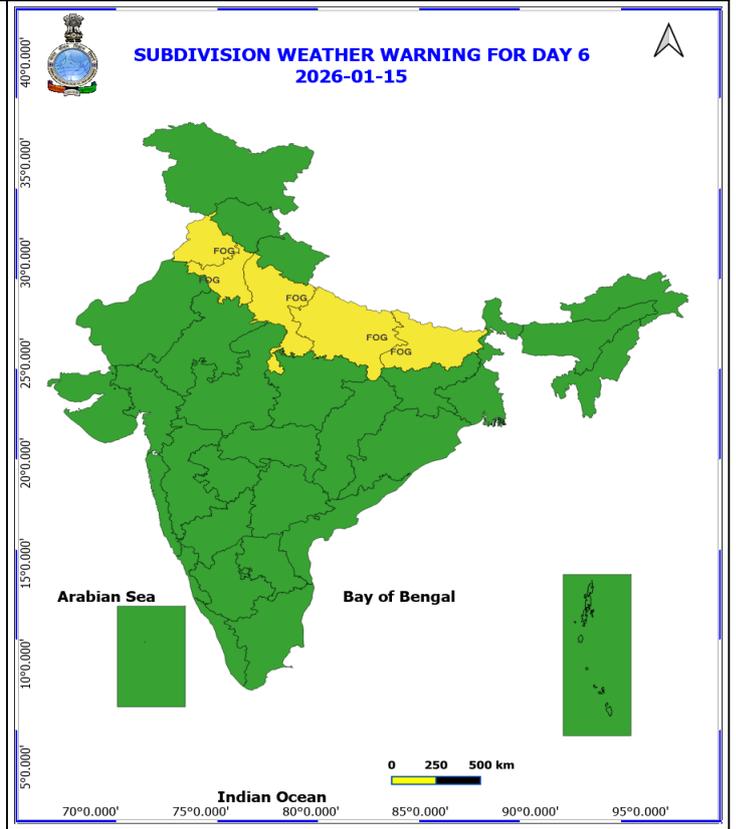
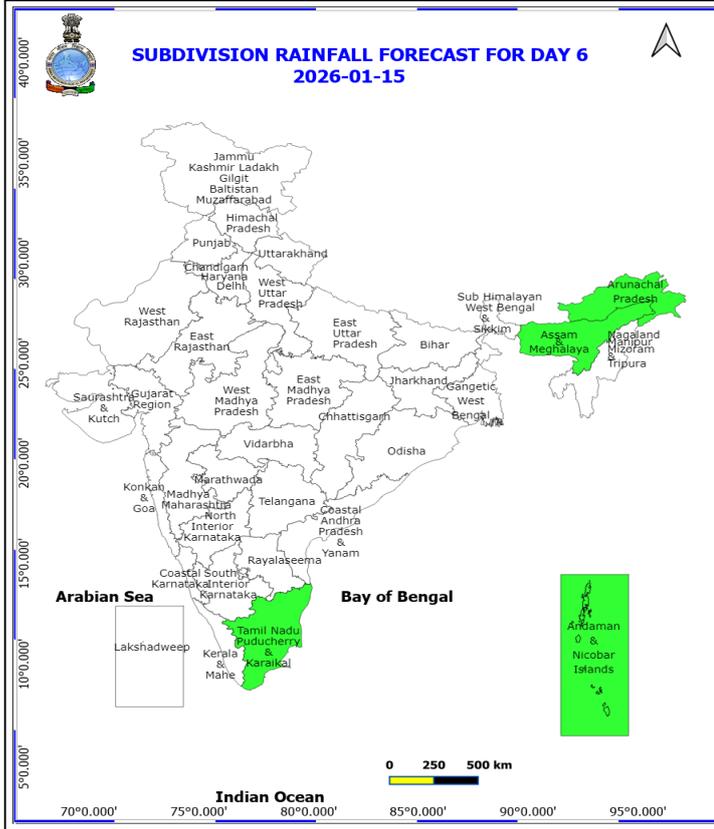
- ❖ **Cold wave conditions** likely at isolated places over Rajasthan.
- ❖ **Cold Day conditions** likely at isolated places over Bihar.
- ❖ **Dense Fog** likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Punjab, Uttar Pradesh and Uttarakhand.

**No Fishermen Warning**



**14 January (Day 5)**

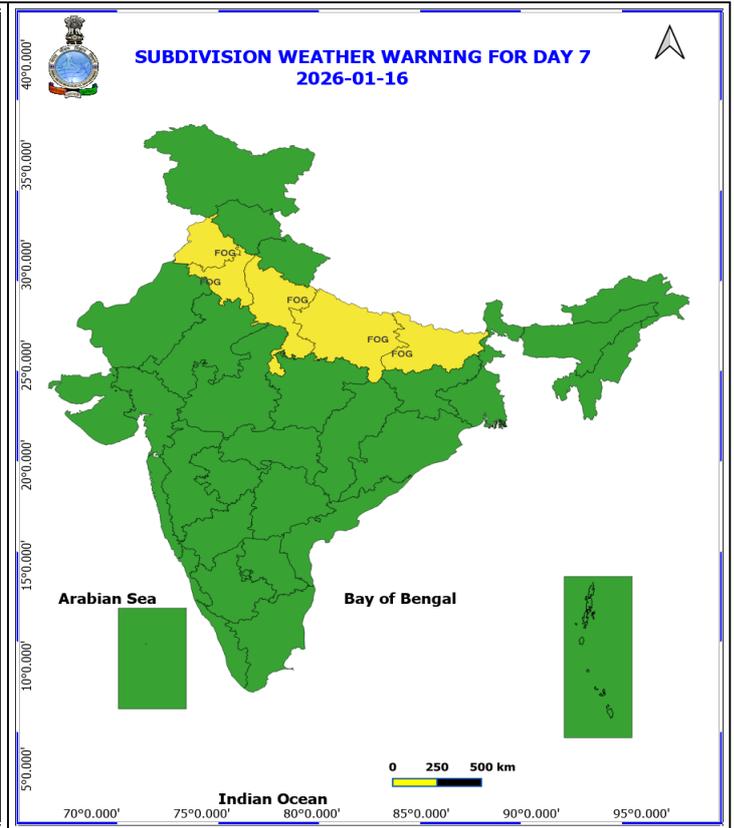
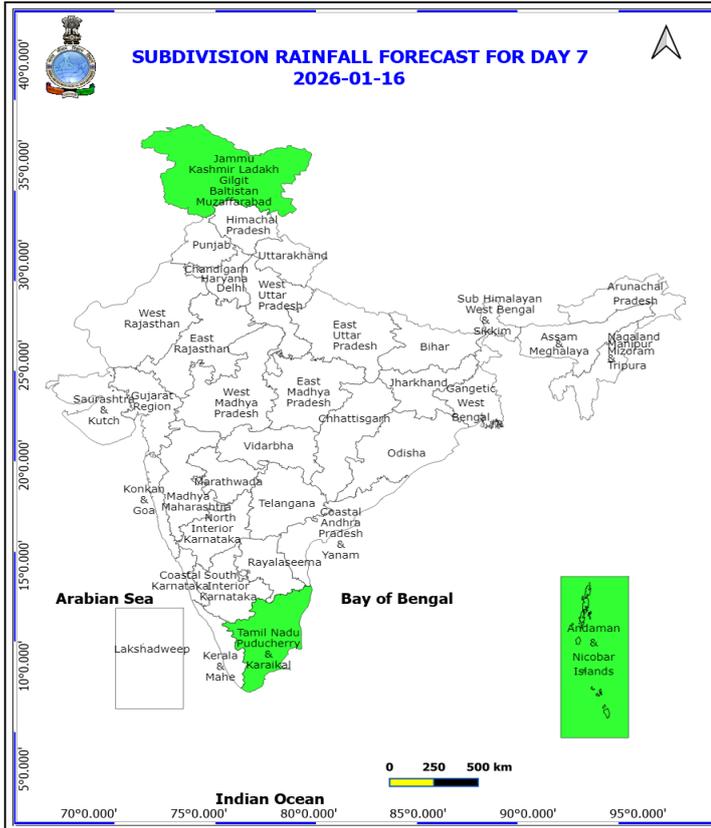
- ❖ **Cold Day conditions** likely at isolated places over Bihar.
  - ❖ **Dense Fog** likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Punjab, Uttar Pradesh and Uttarakhand.
- No Fishermen Warning**



**15 January (Day 6)**

❖ **Dense Fog** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.

**No Fishermen Warning**



**16 January (Day 7)**

❖ **Dense Fog** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.

**No Fishermen Warning**



**Table-1**

**7 Days Rainfall Forecast**

S.No.	Subdivision	10- Jan	11- Jan	12- Jan	13- Jan	14- Jan	15- Jan	16- Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	DRY	DRY	ISOL	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	DRY	ISOL	DRY	DRY	ISOL	ISOL	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
4	N. M. M. & T.	DRY						
5	S.H. WEST BENGAL & SIKKIM	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, CHD & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	DRY						
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	ISOL	DRY	DRY	DRY	ISOL
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	DRY	ISOL	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
25	MARATHWADA	DRY						
26	VIDARBHA	DRY						
27	CHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
29	TELANGANA	DRY						
30	RAYALASEEMA	ISOL	SCT	ISOL	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA	ISOL	ISOL	SCT	ISOL	DRY	DRY	DRY
36	LAKSHDWEEP	DRY	SCT	SCT	SCT	DRY	DRY	DRY

Legend	Category	%Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

**\*Red color warning does not mean "Red Alert" Red color 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)

Fig. 1: Maximum Temperatures Dated 2026-01-09

Fig. 2: Departure of Maximum Temp. Dated 2026-01-09

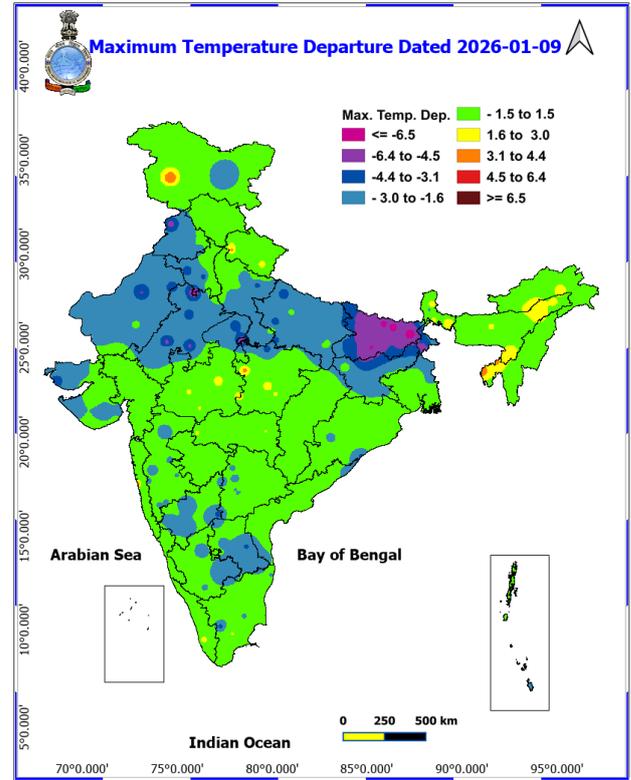
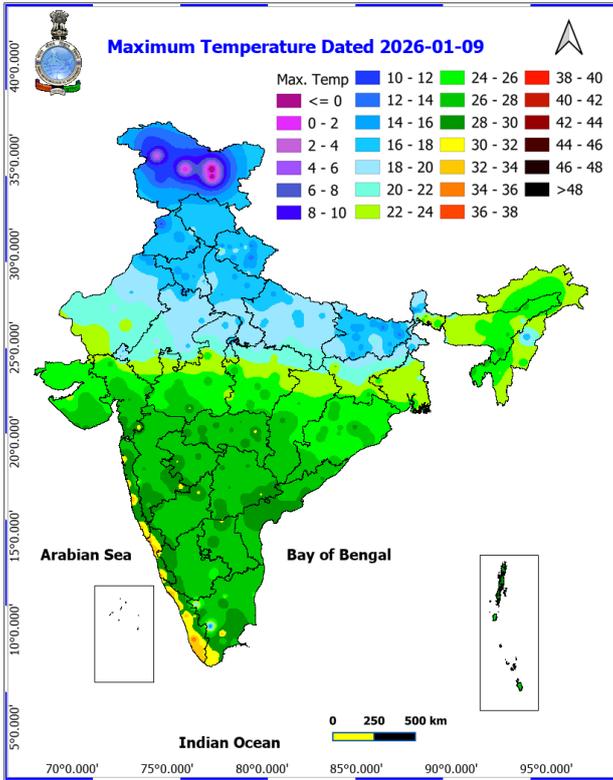
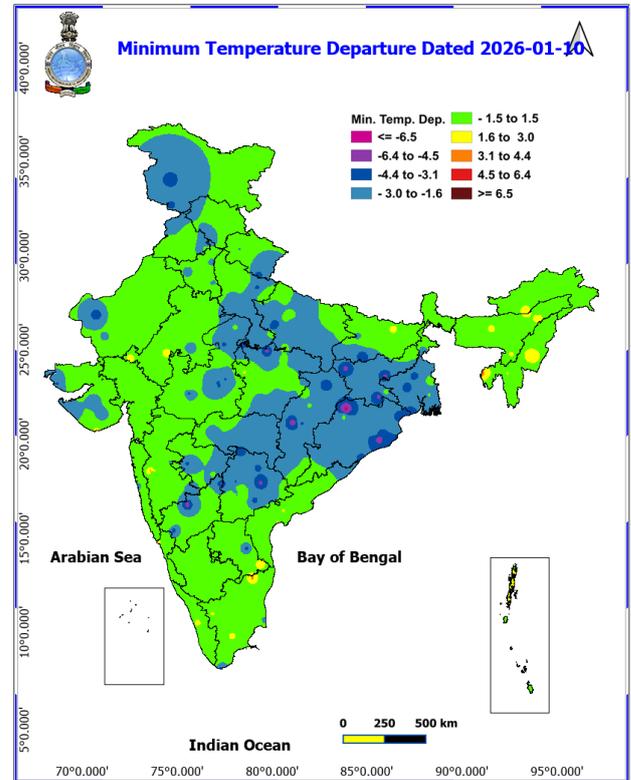
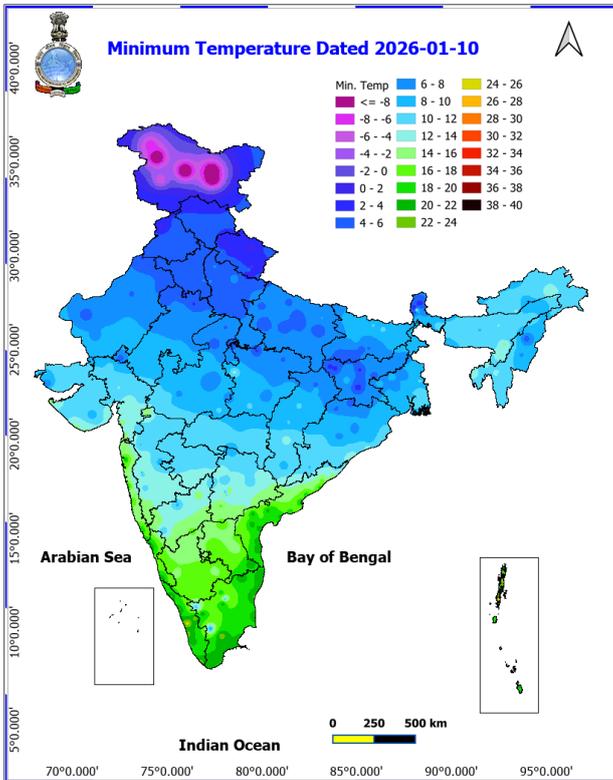
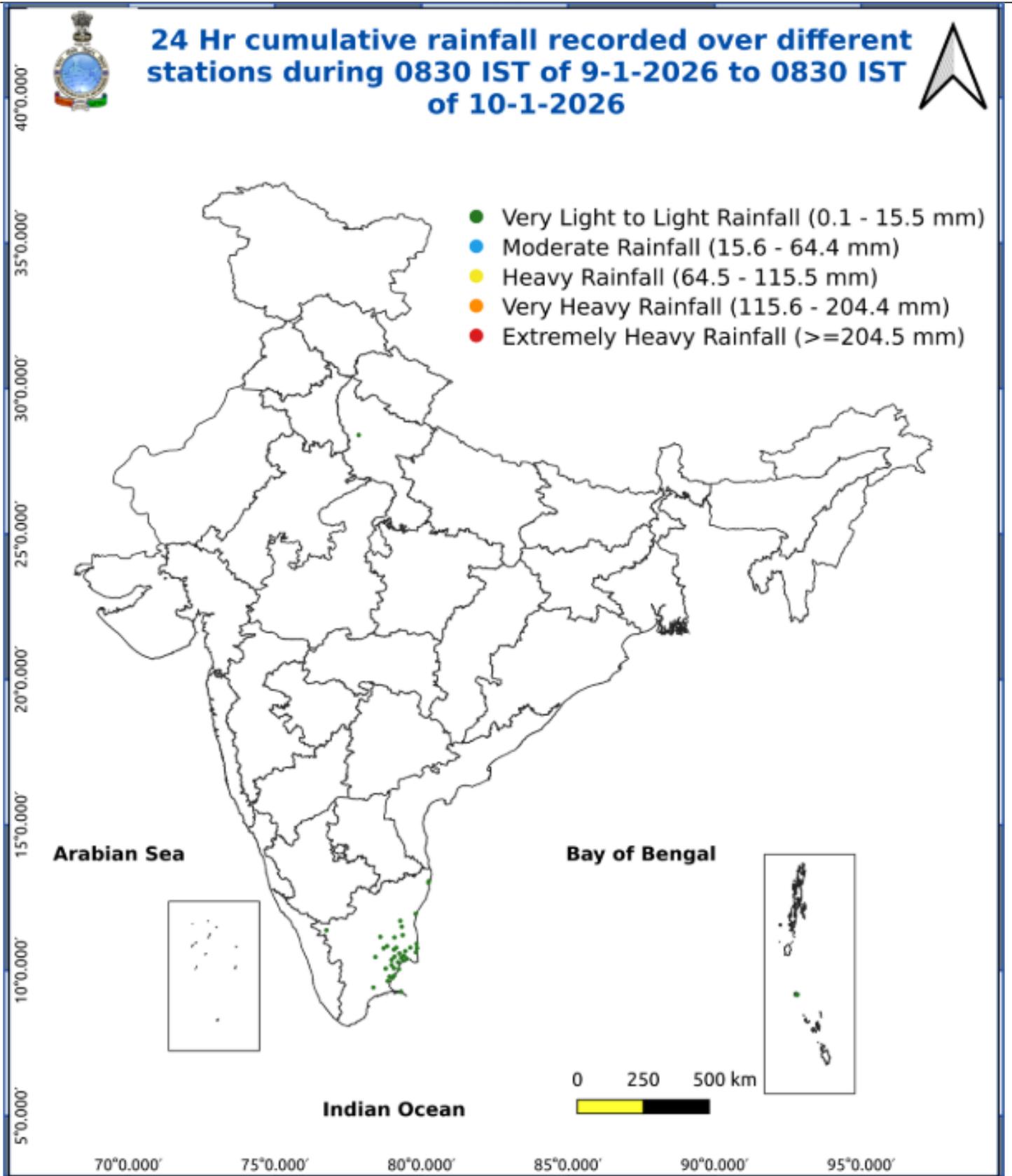


Fig. 3: Minimum Temperatures Dated 2026-01-10

Fig. 4: Departure of Minimum Temp. Dated 2026-01-10





## Impact and Actions

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

- **Dense to very dense fog** conditions very likely to prevail in morning hours in isolated pockets over Punjab/Haryana and Chandigarh till 12<sup>th</sup> and Dense fog in isolated pockets till 17<sup>th</sup> January 2026.
- **Dense to very dense fog** conditions very likely to prevail in morning hours in isolated parts over Rajasthan till 11<sup>th</sup> January and Dense fog in isolated pockets till 13<sup>th</sup> January 2026.
- **Dense fog** conditions also likely during morning hours in isolated/some pockets over Jammu division till 12<sup>th</sup>; Himachal Pradesh, Uttarakhand till 15<sup>th</sup>; Uttar Pradesh and Bihar till 17<sup>th</sup>; Delhi and north Madhya Pradesh till 11<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim till 13<sup>th</sup>; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura till 11<sup>th</sup> and on 14<sup>th</sup> & 15<sup>th</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.

### 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:

**\*Red color warning does not mean "Red Alert" Red color 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)

- **Cold wave to Severe Cold wave** conditions very likely in isolated pockets of Rajasthan on 12<sup>th</sup> & 13<sup>th</sup> and **cold wave** conditions very likely in isolated pockets of Rajasthan during 11<sup>th</sup> to 14<sup>th</sup>, Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, Odisha on 11<sup>th</sup> & 12<sup>th</sup>; Uttarakhand, Jharkhand and North Interior Karnataka on 11<sup>th</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.

#### Impact expected due to Cold Day conditions:

**Cold day conditions** likely to prevail in isolated parts over Punjab, Haryana Chandigarh & Sub-Himalayan West Bengal & Sikkim on 10<sup>th</sup>; Rajasthan on 10<sup>th</sup> & 11<sup>th</sup>; Bihar during 10<sup>th</sup> -14<sup>th</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 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.

**\*Red color warning does not mean "Red Alert" Red color 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)

- 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 various parts of the country

#### Agromet advisories for likely impact of Heavy Rainfall

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

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

- In **Himachal Pradesh, Uttarakhand, Punjab, Haryana, Rajasthan, North Interior Karnataka, Odisha and Jharkhand**, apply light and frequent irrigation to the standing crops in the evening hours to protect crops from low temperature stress or cold injury. Use mulching and cover the vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

#### Livestock / Poultry

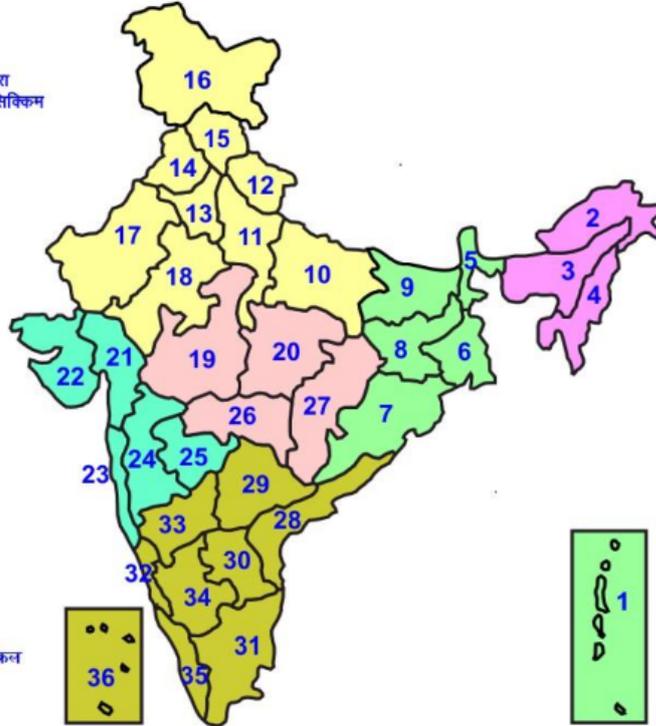
- Keep the cattle in the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

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

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

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं 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. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & 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. Marathawada
26. Vidharbha
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)

### Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- 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

- |                          |                 |                      |                    |
|--------------------------|-----------------|----------------------|--------------------|
| Heavy Rain               | Very Heavy Rain | Extremely Heavy Rain | Heavy Snow         |
| Thunderstorm & Lightning | Hailstorm       | Dust Storm           | Dust Raising Winds |
| Strong surface winds     | Heat Wave       | Hot Day              | Warm Night         |
| Cold Wave                | Cold Day        | Ground Frost         | Fog                |
| Hot & Humid              |                 |                      |                    |

\*Red color warning does not mean "Red Alert" Red color 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)

## LEGENDS

### WARNING

WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

### Probabilistic Forecast

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



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  $\geq 6.5^{\circ}\text{C}$

(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  $\geq 37^{\circ}\text{C}$



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  $> 6.4^{\circ}\text{C}$ .



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  $\leq 15^{\circ}\text{C}$



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  $\leq -6.5^{\circ}\text{C}$



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



Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  ( over Plains)



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



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



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)

\*Red color warning does not mean "Red Alert" Red color 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)