

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and warning:

- A fresh wet spell with Fairly widespread to widespread rainfall/snowfall with **lightning & squally winds speed reaching 50-60 kmph gusting to 70 kmph** over Jammu-Kashmir-Ladakh, Himachal Pradesh on 26<sup>th</sup> & 27<sup>th</sup> and Uttarakhand on 27<sup>th</sup> & 28<sup>th</sup> January. **Isolated heavy rainfall/snowfall also likely over Jammu-Kashmir and Himachal Pradesh 27<sup>th</sup> January and Scattered to fairly widespread** light to moderate rainfall with **lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** over Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh & Rajasthan on 27<sup>th</sup>; East Uttar Pradesh on 27<sup>th</sup> & 28<sup>th</sup>; **Isolated** light rainfall with **lightning** over Central India on 27<sup>th</sup> & 28<sup>th</sup> January.
- Isolated **Hailstorm** activity also likely over Jammu-Kashmir on 26<sup>th</sup> & 27<sup>th</sup>; Himachal Pradesh, Punjab and Haryana on 27<sup>th</sup> and Uttarakhand on 27<sup>th</sup> & 28<sup>th</sup> January.
- **Isolated** light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds speed reaching 30-40 kmph very likely over Bihar on 28<sup>th</sup> and with lightning over Kerala & Mahe on 25<sup>th</sup> & 26<sup>th</sup> January.

#### Forecast of minimum temperatures:

- No significant change in minimum temperatures likely over Northwest India during next 24 hours; gradual rise by 4-6°C during subsequent 2 days and gradual fall by 3-5°C during subsequent 3 days and no significant change thereafter.
- No significant change in minimum temperatures likely over Central India during next 24 hours and gradual rise by 2-3°C during subsequent 3 days and gradual fall by 2-4°C and gradual rise thereafter.
- Gradual rise in minimum temperatures by 2-3°C likely over Maharashtra during next 2 days and no significant change during subsequent 5 days.
- Gradual rise in minimum temperatures by 2-3°C likely over Gujarat during next 2 days; no significant change during subsequent 24 hours and fall by 2-3°C thereafter.
- No significant change in minimum temperatures likely over rest parts of the country.

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

- **Dense fog** conditions also likely during morning/night hours in isolated pockets over Himachal Pradesh, Punjab, Haryana Chandigarh till 26<sup>th</sup>; north Uttar Pradesh & Sub-Himalayan West Bengal & Sikkim till 27<sup>th</sup> January.
- **Cold wave to severe cold wave conditions** likely in isolated pockets over East Rajasthan on 26<sup>th</sup>; **Cold wave** conditions likely in isolated pockets over Himachal Pradesh & West Rajasthan on 26<sup>th</sup>; Punjab, Haryana, Chandigarh on 26<sup>th</sup> & during 28<sup>th</sup>-30<sup>th</sup> January.
- **Cold day** conditions likely in isolated pockets over Himachal Pradesh and Punjab on 27<sup>th</sup> January.

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**Main Weather Observations:**

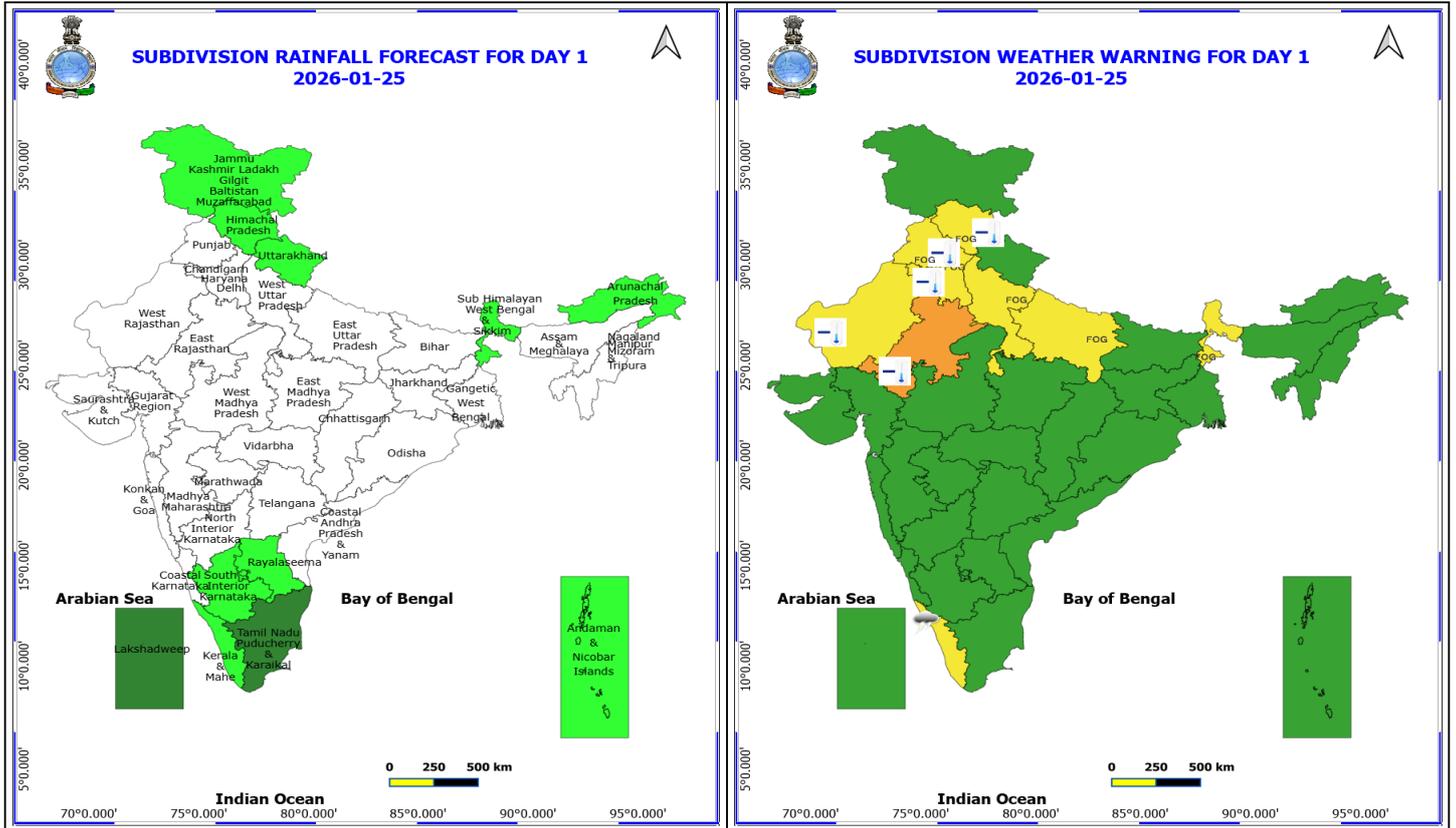
- **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places** over Tamil Nadu, Puducherry & Karaikal; **at isolated places** over Andaman & Nicobar Islands, Arunachal Pradesh, Himachal Pradesh, Jammu-Kashmir/Ladakh-Gilgit-Baltistan-Muzaffarabad, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe; **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:** Mahabalipuram (dist Chengalpattu), Marakkanam (dist Villupuram), Velankanni (dist Nagapattinam) 4 Each; Nagapattinam (dist Nagapattinam), Karaikal (dist Karaikal), Satyabama Uty ARG (dist Chengalpattu), Newchennai Township AWS (dist Chengalpattu), Nalumukku (dist Tirunelveli), Oothu (dist Tirunelveli) 3 Each; **Arunachal Pradesh:** Anini AWS (dist Dibang Valley) 3.
- **Dense fog (visibility 50-199 m)** conditions prevailed in isolated pockets of West Uttar Pradesh, Madhya Pradesh and Meghalaya.
- **Visibility reported (in meters >200 m): West Uttar Pradesh:** AMS Kushinagar 50m; **West Madhya Pradesh:** Bhopal; **East Madhya Pradesh:** Jabalpur; **Meghalaya:** Barapani 50m.
- **Cold wave to severe cold wave conditions** prevailed in some parts of Rajasthan and **cold wave conditions** in isolated pockets of Himachal Pradesh and Haryana.
- **Cold day conditions** prevailed in isolated pockets of Himachal Pradesh and Haryana.
- **Thunderstorm accompanied with Squally/Gusty winds** with speed **30-60 kmph** over Himachal Pradesh, Arunachal Pradesh, Andaman & Nicobar Islands.
- **Light snowfall** occurred at isolated places over Himachal Pradesh (Jot 7.0cm).
  - ❖ **Minimum Temperature Departures (as on 25-01-2026):** **Minimum Temperatures** were above normal by (2°C to 5°C) over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, West Bengal, Arunachal Pradesh, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Kerala & Mahe, Tamil Nadu and below normal by (-2°C to -4°C) over Haryana, Chandigarh & Delhi, Rajasthan, Saurashtra & Kutch, Odisha and near normal over rest parts of the country.. **The lowest minimum temperature of -2.7°C** is reported at Fatehpur (RAJASTHAN) over the Plains of India.
  - ❖ **Maximum Temperature Departures (as on 24-01-2026):** **below normal (-1.6°C to -3.0°C)** at few places over Saurashtra & Kutch; at isolated places over Punjab and Coastal Andhra Pradesh & Yanam. **appreciably below normal (-5.0°C to -3.1°C)** at isolated places over West Rajasthan. **markedly below normal (< -5.0°C)** at most places over Rayalaseema. **The highest maximum temperature of 35.4°C** is reported at KARWAR (KARNATAKA).

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

- The **trough** in easterlies roughly over southwest Bay of Bengal off Tamil Nadu and adjoining Sri Lanka now runs from Comorin area to north Kerala coast across southeast Arabian Sea at 0.9 km above mean sea level.
- The **Western Disturbance** as a **cyclonic circulation** over Jammu adjoining Himachal Pradesh, lay over Himachal and adjoining Punjab at 3.1 km above mean sea level with a trough aloft in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 74°E to the north of Lat. 28°N.
- A **trough** runs from south Punjab to Kutch across west Rajasthan and north Gujarat at 1.5km above mean sea level.
- An **upper air cyclonic circulation** lay over central Uttar Pradesh between 1.5 & 3.1km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order of 130 knots at 12.6 km above mean sea level prevails over Northeast India.
- A fresh **western disturbance** is likely to affect northwest India from 26<sup>th</sup> January 2026.
- Another fresh **western disturbance** is likely to affect northwest India from the night of 30<sup>th</sup> January 2026

### Weather Outlook for subsequent 3 days

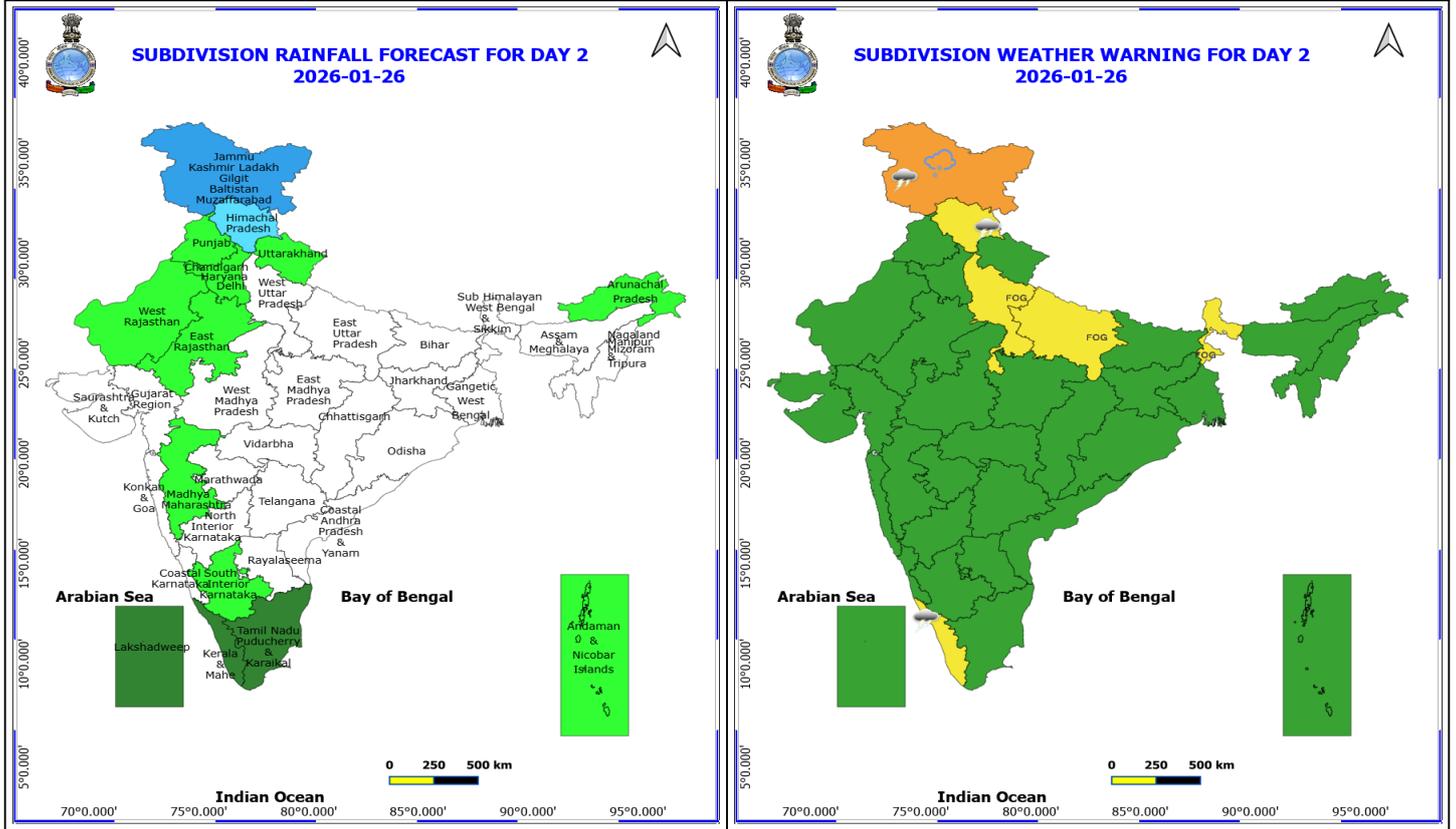
- Isolated/Scattered rainfall/snowfall activity likely over Western Himalayan Region.
- Isolated/Scattered rainfall activity likely over Punjab, Uttar Pradesh, Tamil Nadu and Madhya Pradesh.



**25 January (Day 1)**

- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe.
- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh, Himachal Pradesh, Punjab and West Rajasthan.
- ❖ **Cold wave to Severe Cold wave conditions** very likely at isolated places over East Rajasthan.
- ❖ **Dense Fog** very likely at isolated places over Haryana, Chandigarh Himachal Pradesh, Punjab, Sub Himalayan West Bengal & Sikkim and Uttar Pradesh.
- ❖ **Squally weather with speed reaching 40 to 50 kmph gusting up to 60 kmph** is likely to prevail over many parts of the southwest Bay of Bengal; along & off Tamil Nadu & Sri Lanka coasts; over Gulf of Mannar & Comorin area.
- ❖ **Squally wind with speed reaching 40 to 50 kmph gusting up to 60 kmph** is likely to prevail over northeast Arabian sea, along & off Gujarat coast.

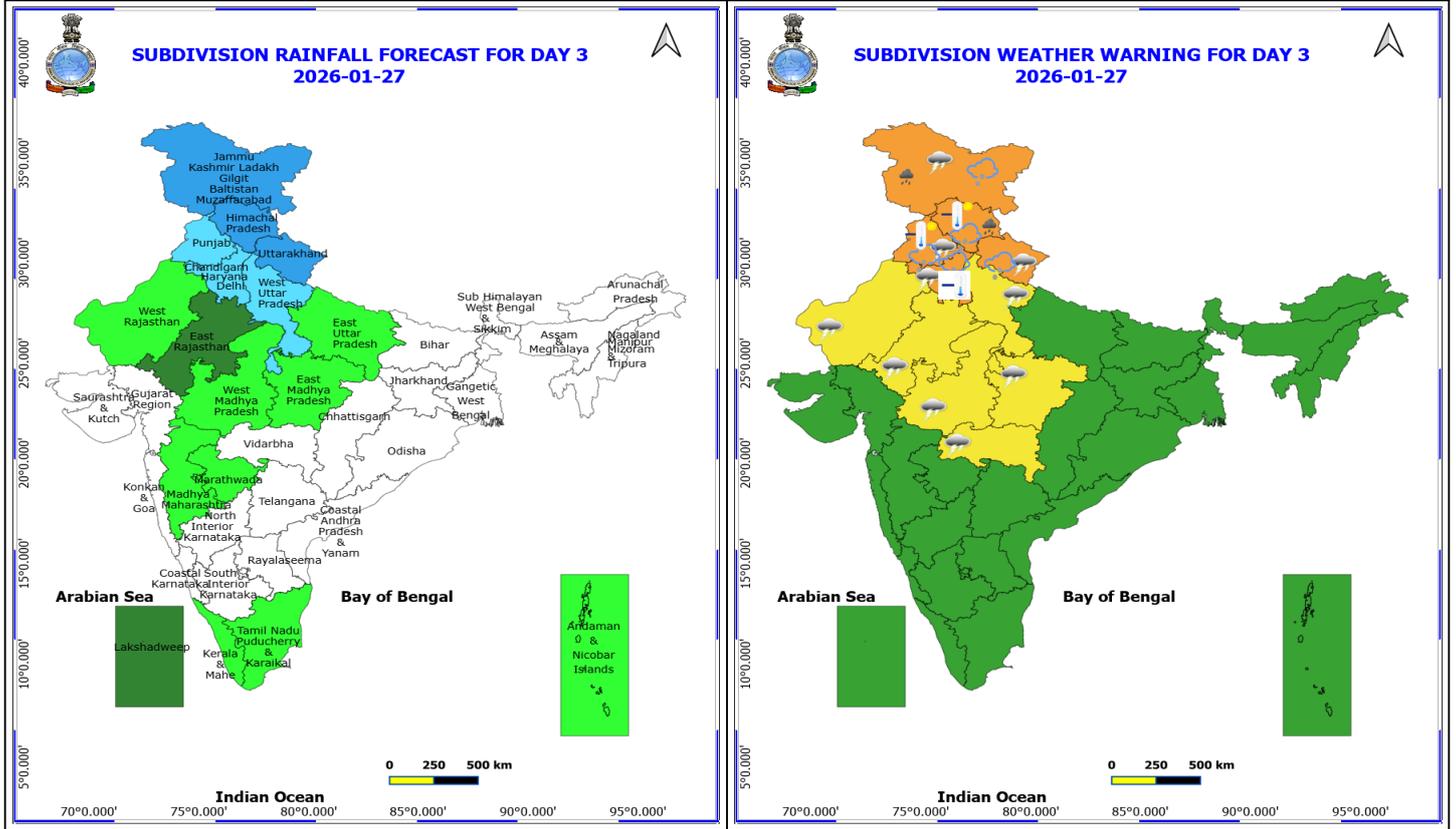
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**26 January (Day 2)**

- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe.
- ❖ **Dense Fog** very likely at isolated places over Sub Himalayan West Bengal & Sikkim and Uttar Pradesh.
- ❖ **Squally weather with speed reaching 40 to 50 kmph gusting up to 60 kmph** is likely to prevail along & off south Tamil Nadu & Sri Lanka coasts; over Gulf of Mannar & Comorin area.
- ❖ **Squally wind with speed reaching 40 to 50 kmph gusting up to 60 kmph** is likely to prevail over northeast Arabian sea, along & off north Gujarat coast.

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## 27 January (Day 3)

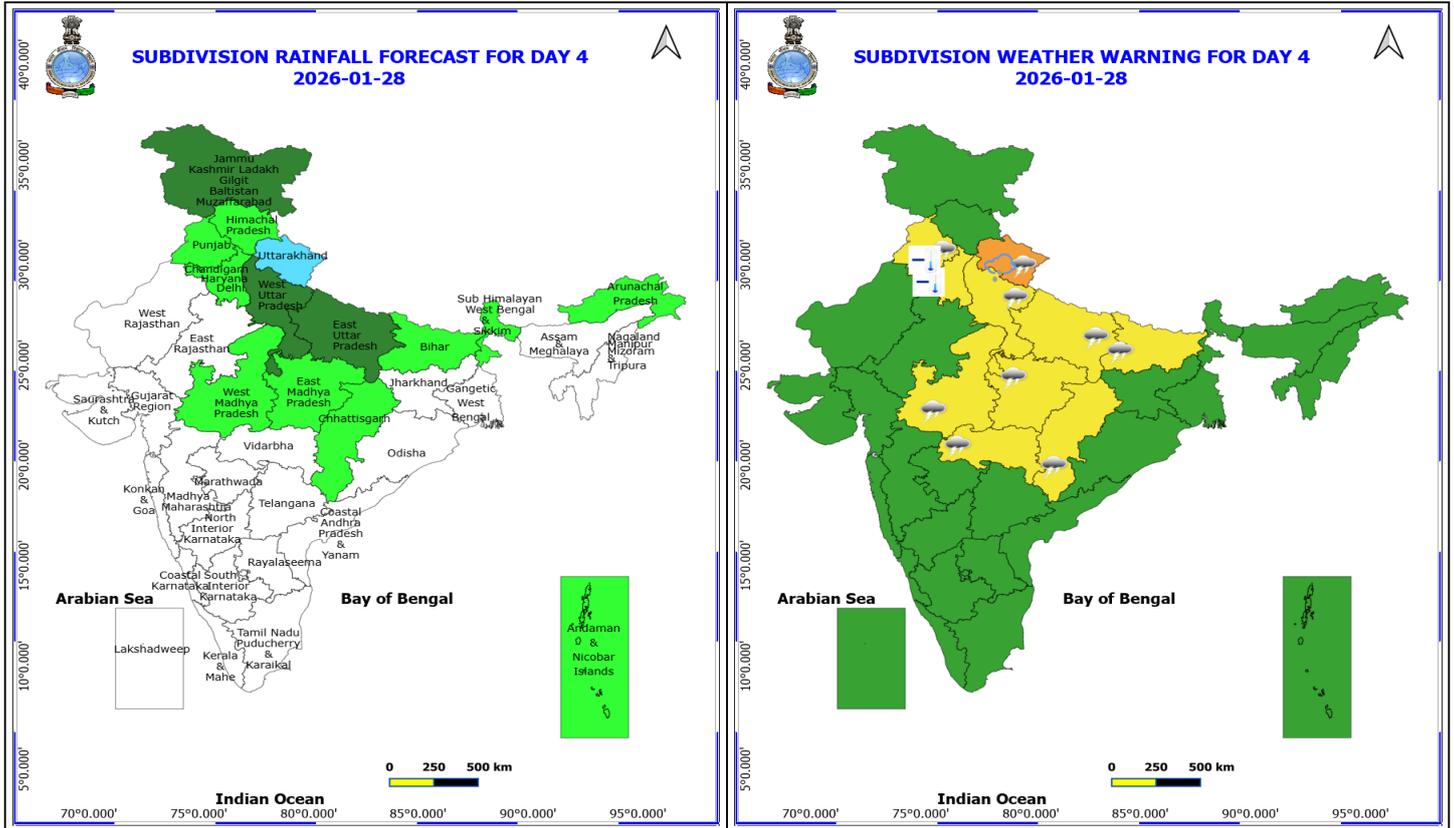
- ❖ **Heavy Rainfall** very likely at isolated places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab and Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Rajasthan and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Madhya Pradesh, Uttarakhand and Vidarbha.
- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh.
- ❖ **Cold Day conditions** very likely at isolated places over Himachal Pradesh and Punjab.
- ❖ **Squally weather with speed reaching 40 to 50 kmph gusting up to 60 kmph** is likely to prevail over Gulf of Mannar, Comorin area, along & off south Tamil Nadu & Sri Lanka coasts.

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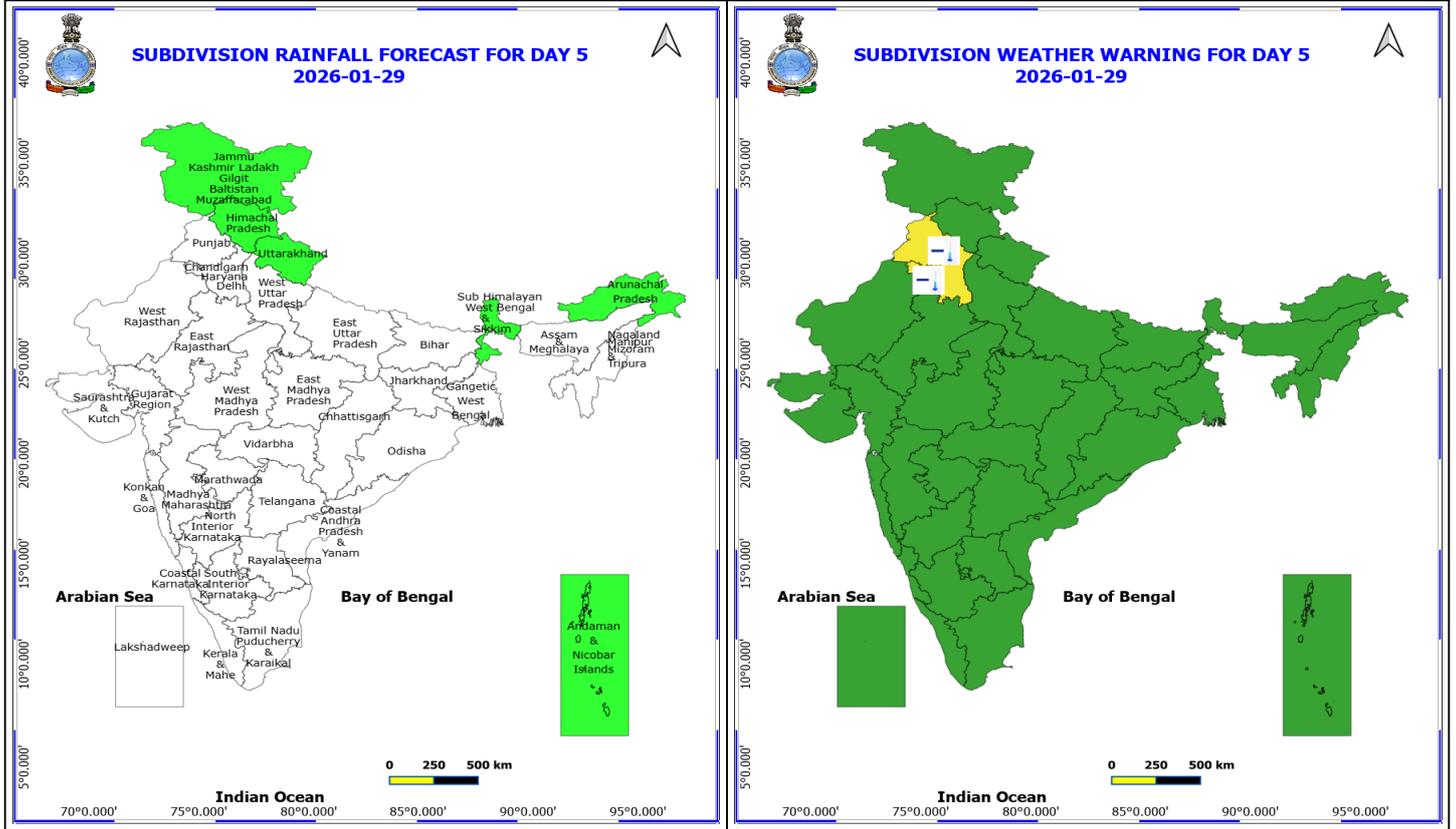
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## 28 January (Day 4)

- ❖ **Thunderstorm accompanied with Hailstorm** likely at isolated places over Uttarakhand.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Punjab and Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Chhattisgarh, Madhya Pradesh, Uttarakhand and Vidarbha.
- ❖ **Cold wave conditions** likely at isolated places over Haryana, Chandigarh and Punjab.
- ❖ **Squally weather with speed reaching 40 to 50 kmph gusting up to 60 kmph** is likely to prevail over Gulf of Mannar and Comorin area.

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**29 January (Day 5)**

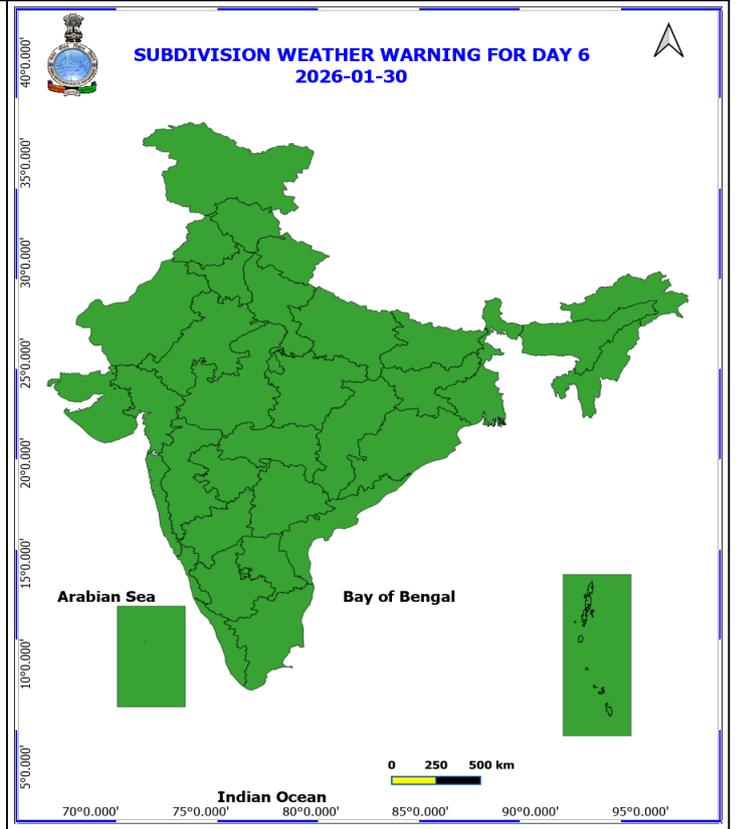
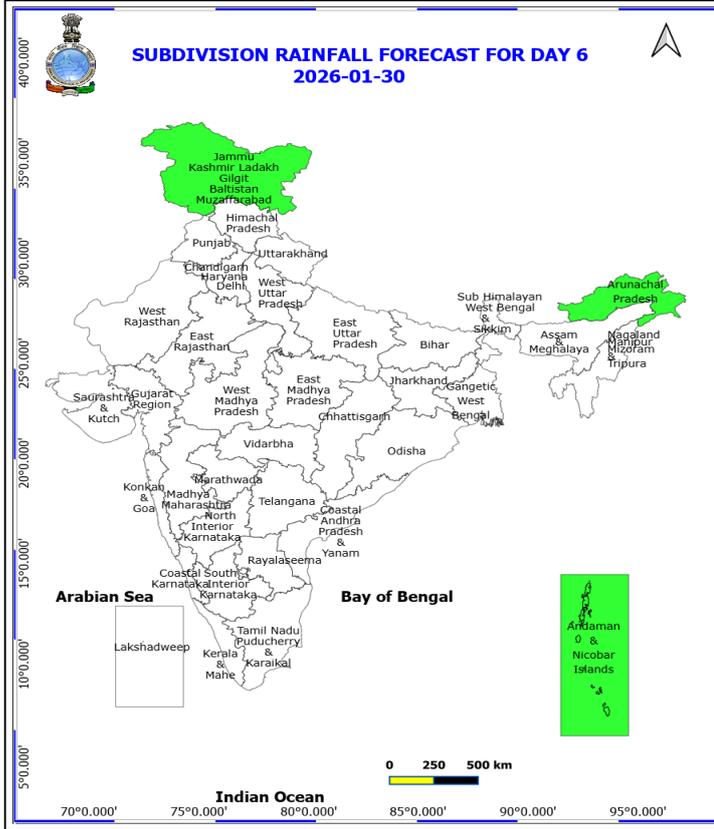
- ❖ **Cold wave conditions** likely at isolated places over Haryana, Chandigarh and Punjab.
- ❖ **Squally weather with speed reaching 40 to 50 kmph gusting up to 60 kmph** is likely to prevail over Gulf of Mannar and Comorin area.

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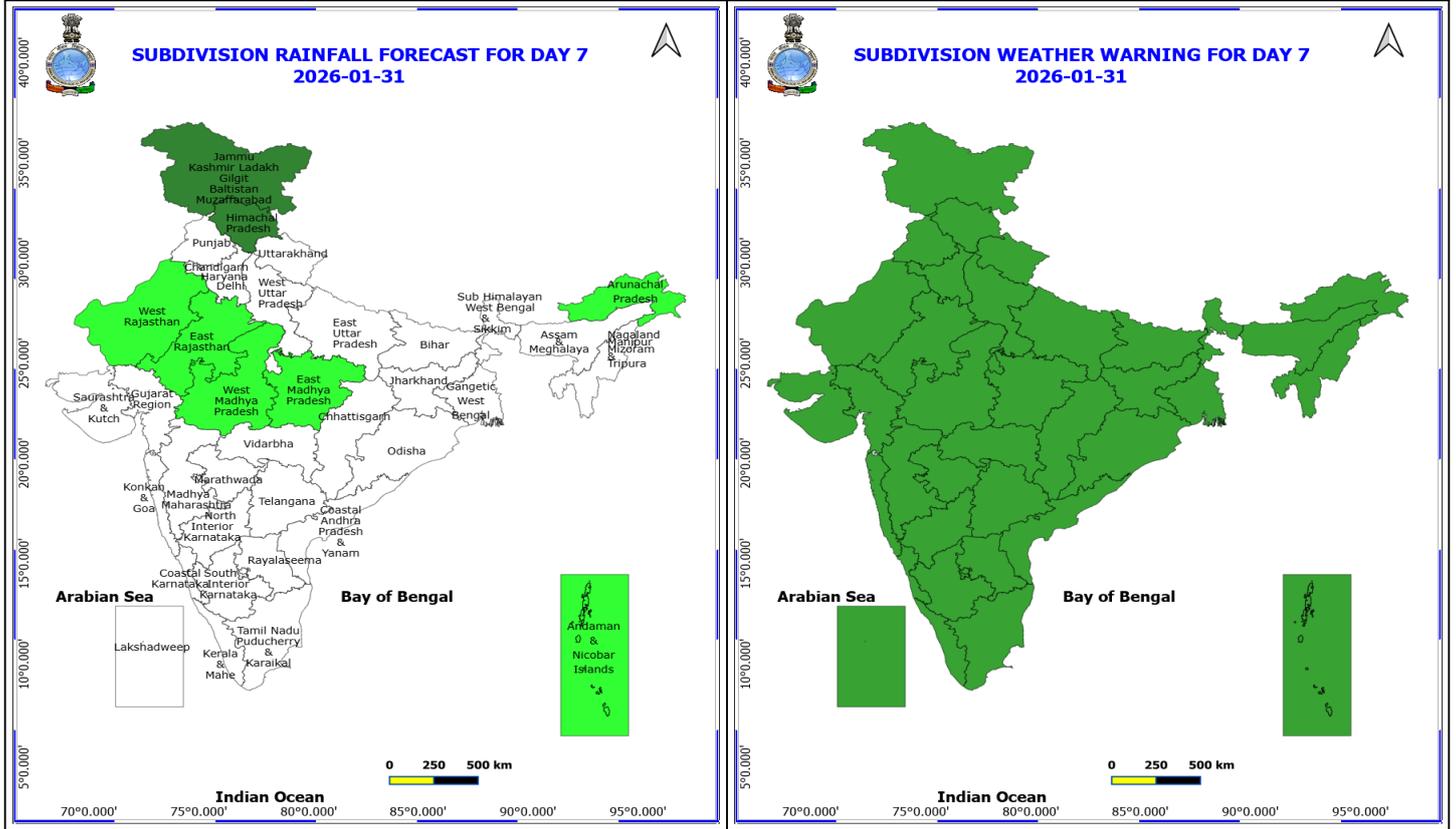
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**30 January (Day 6)**

**No Warning**

**No Fishermen Warning**



**31 January (Day 7)**

**No Warning**  
**No Fishermen Warning**



**Table-1**

**7 Days Rainfall Forecast**

S.No.	Subdivision	25- Jan	26- Jan	27- Jan	28- Jan	29- Jan	30- Jan	31- Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL						
2	ARUNACHAL PRADESH	ISOL	ISOL	DRY	ISOL	ISOL	ISOL	ISOL
3	ASSAM & MEHGHALAYA	DRY						
4	N. M. M. & T.	DRY						
5	S.H. WEST BENGAL & SIKKIM	ISOL	DRY	DRY	ISOL	ISOL	DRY	DRY
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	ISOL	SCT	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	FWS	SCT	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	WS	FWS	ISOL	DRY	DRY
13	HARYANA, CHD & DELHI	DRY	ISOL	FWS	ISOL	DRY	DRY	DRY
14	PUNJAB	DRY	ISOL	FWS	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	FWS	WS	ISOL	ISOL	DRY	SCT
16	JAMMU AND KASHMIR AND LADAKH	ISOL	WS	WS	SCT	ISOL	ISOL	SCT
17	WEST RAJASTHAN	DRY	ISOL	ISOL	DRY	DRY	DRY	ISOL
18	EAST RAJASTHAN	DRY	ISOL	SCT	DRY	DRY	DRY	ISOL
19	WEST MADHYA PRADESH	DRY	DRY	ISOL	ISOL	DRY	DRY	ISOL
20	EAST MADHYA PRADESH	DRY	DRY	ISOL	ISOL	DRY	DRY	ISOL
21	GUJRAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY						
24	MADHYA MAHARASHTRA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY						
27	CHATTISGARH	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	DRY						
29	TELANGANA	DRY						
30	RAYALASEEMA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	SCT	SCT	ISOL	DRY	DRY	DRY	DRY
32	COSTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
35	KERALA	ISOL	SCT	ISOL	DRY	DRY	DRY	DRY
36	LAKSHDWEEP	SCT	SCT	SCT	DRY	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

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Fig. 1: Maximum Temperatures Dated 2026-01-24

Fig. 2: Departure of Maximum Temp. Dated 2026-01-24

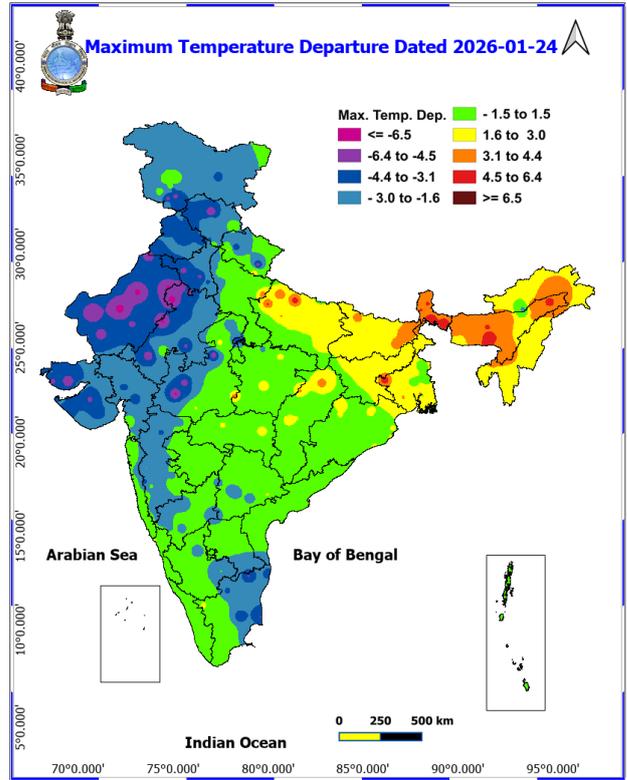
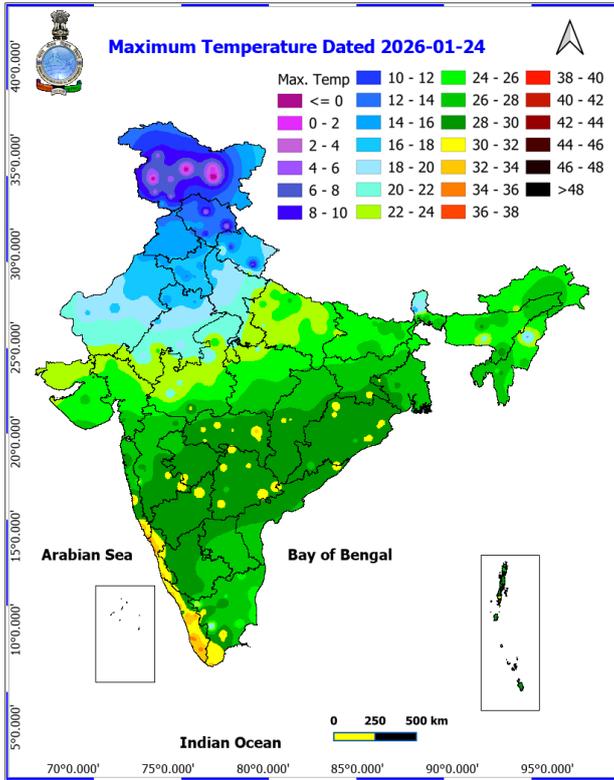
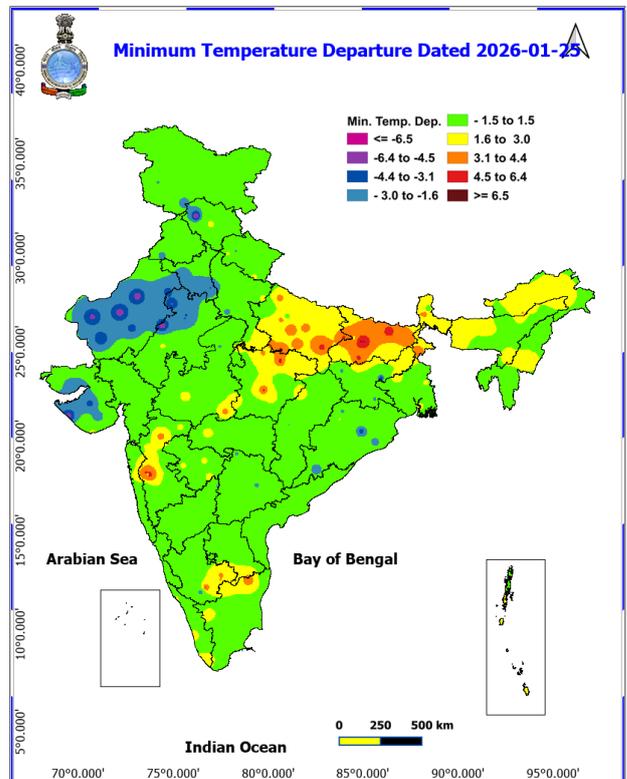
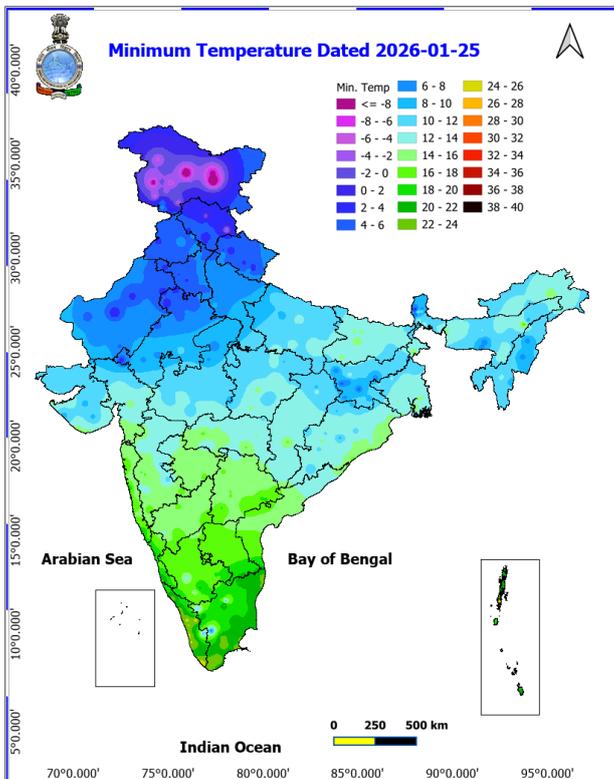


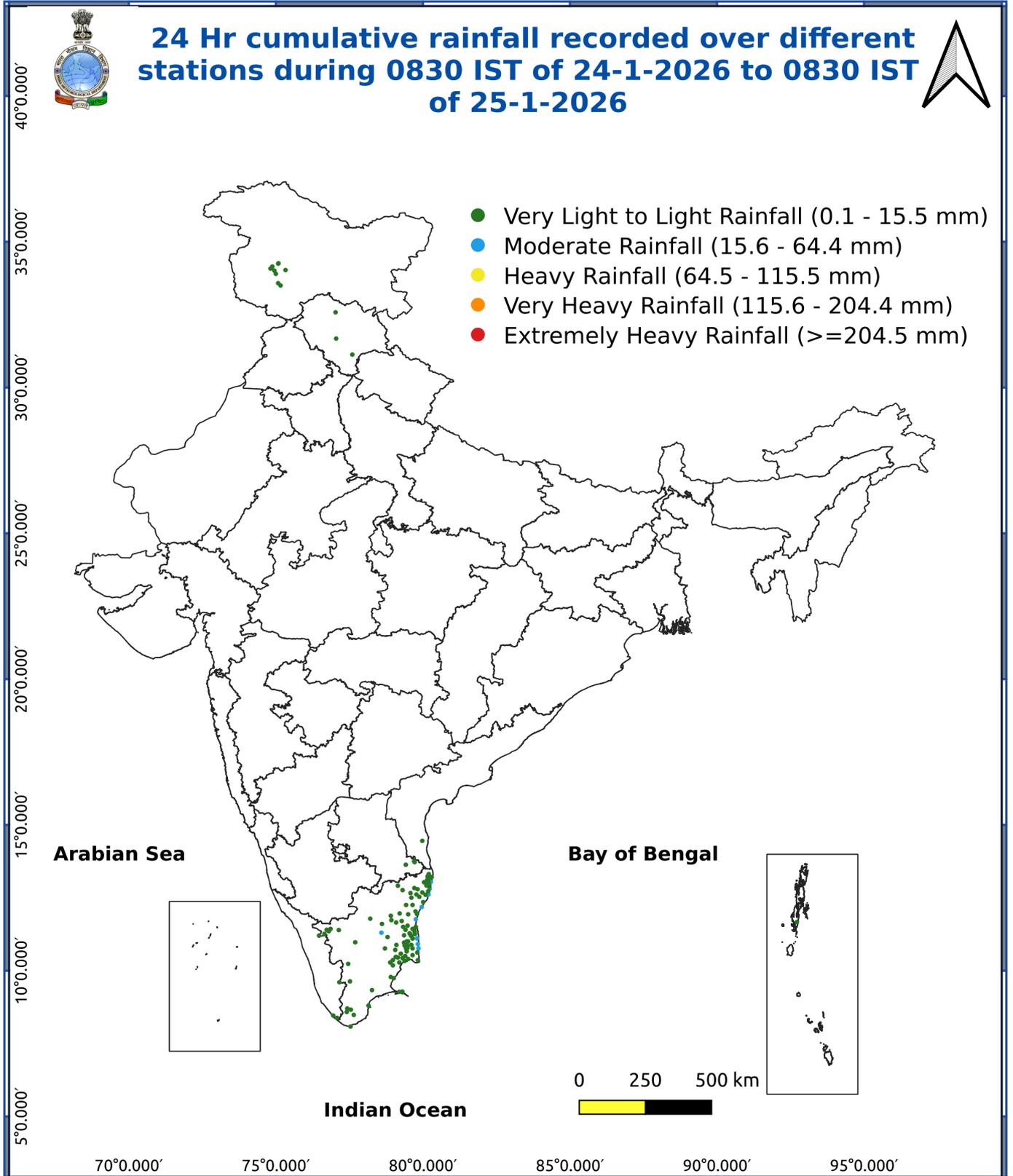
Fig. 3: Minimum Temperatures Dated 2026-01-25

Fig. 4: Departure of Minimum Temp. Dated 2026-01-25



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## Impact and Actions

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

- **Dense fog** conditions also likely during morning/night hours in isolated pockets over Himachal Pradesh, Punjab, Haryana Chandigarh till 26<sup>th</sup>; north Uttar Pradesh & Sub-Himalayan West Bengal & Sikkim till 27<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 and action suggested due to isolated thunderstorm with lightning/gusty & Squally winds & Hailstorm over

- Isolated **Hailstorm** activity over Jammu-Kashmir on 26<sup>th</sup> & 27<sup>th</sup>; Himachal Pradesh, Punjab and Haryana on 27<sup>th</sup> and Uttarakhand on 27<sup>th</sup> & 28<sup>th</sup> January.
- **Thunderstorm with lightning & squally winds speed reaching 50-60 kmph gusting to 70 kmph** over Jammu-Kashmir-Ladakh, Himachal Pradesh on 26<sup>th</sup> & 27<sup>th</sup> and Uttarakhand on 27<sup>th</sup> & 28<sup>th</sup> January; with **lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** over Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh & Rajasthan on 27<sup>th</sup>; East Uttar Pradesh on 27<sup>th</sup> & 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.

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- 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 Cold Wave/Severe Cold wave conditions:**

- **Cold wave to severe cold wave conditions** likely in isolated pockets over East Rajasthan on 26<sup>th</sup>; **Cold wave** conditions likely in isolated pockets over Himachal Pradesh & West Rajasthan on 26<sup>th</sup>; Punjab, Haryana, Chandigarh on 26<sup>th</sup> & during 28<sup>th</sup>-30<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

**Agromet advisories for various parts of the country**

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

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- In **Jammu & Kashmir**, make necessary arrangements to drain out excess water from wheat, mustard, chickpea, pea and vegetables fields. Gently shake the fruit bearing trees to remove snow immediately from the branches.
- In **Himachal Pradesh**, ensure proper drainage to drain out excess rainwater from the fields of wheat, barley, onion, garden pea, potato, garlic, spinach, radish, turnip, coriander, cabbage, cauliflower and broccoli and fruit orchards. Gently shake the fruit bearing trees to remove snow immediately from the branches.
- In **Uttarakhand**, make necessary arrangements to drain out excess water from the fields of wheat, barley, lentil, chickpea, mustard, rapeseed, vegetable and plantations crops. Gently shake the fruit bearing trees to remove snow immediately from the branches.

#### Agromet advisories for likely impact of Hailstorm

- Use hail nets to protect orchards and vegetable plants in Jammu & Kashmir and Himachal Pradesh.

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

- In **Himachal Pradesh, Punjab, Haryana and Rajasthan**, 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

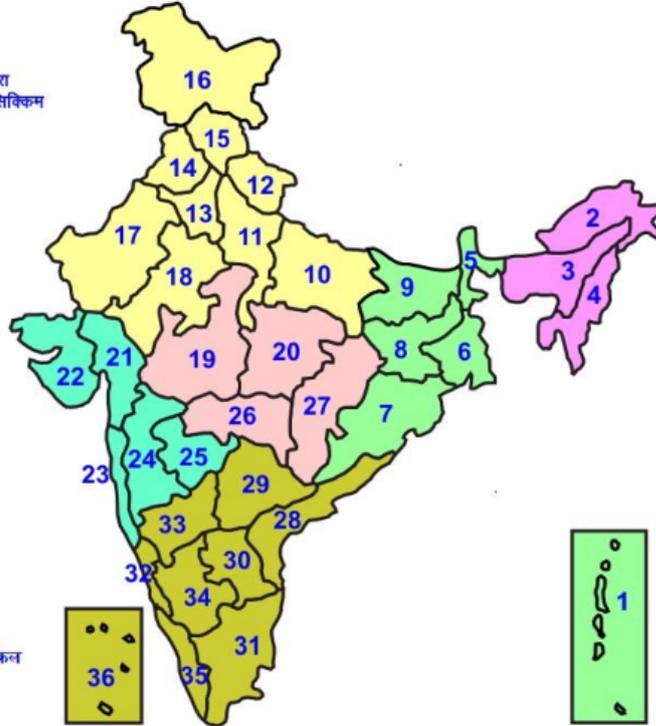
#### Legends & abbreviations:

#### 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 Marathwada.
- **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 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

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## 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)

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