

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and warning:

- Fairly widespread to widespread rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** over Jammu-Kashmir-Ladakh, Himachal Pradesh on 27th and Uttarakhand on 27th & 28th January. **Isolated heavy rainfall/snowfall also likely over Jammu-Kashmir, Himachal Pradesh and Uttarakhand 27th January and Scattered to fairly widespread light to moderate rainfall with thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** over Punjab, Haryana, Chandigarh on 27th; **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph gusting to 50 kmph** over West Uttar Pradesh & Rajasthan on 27th; East Uttar Pradesh on 27th & 28th; **Isolated light rainfall with thunderstorm, lightning** over Madhya Pradesh on 27th and Chhattisgarh on 28th January.
- Isolated Hailstorm activity also likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan and adjoining West Madhya Pradesh on 27th January.**
- Isolated light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds speed reaching 30-40 kmph very likely over Bihar on 28th and **isolated Hailstorm activity also likely over Sikkim on 28th January.**
- A fresh **western disturbance** is likely to affect northwest India from the night of 30th January 2026. Under its influence, scattered to fairly widespread rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** likely over Western Himalayan region and adjoining plains of Northwest India on 01st & 02nd February.

Forecast of minimum temperatures:

- Gradual fall in minimum temperatures by 3-5°C likely over Northwest India during next 2 days; gradual rise by 3-5°C thereafter.
- Gradual fall in minimum temperatures by 2-4°C likely over Central India during next 2 days; no significant change during next 24 hours and gradual rise by 2-4°C during subsequent 4 days.
- Gradual fall in minimum temperatures by 2-3°C likely over north Maharashtra during next 2 days; gradual rise by 2-3°C during subsequent 3 days and no significant change thereafter.
- Gradual fall in minimum temperatures by 3-5°C likely over Gujarat during next 24 hours; gradual rise by 2-4°C during subsequent 3 days and no significant change 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 & Delhi during 28th-30th; Uttarakhand on 29th & 30th; Uttar Pradesh, North Madhya Pradesh, Rajasthan and Bihar on 28th & 29th January.
- Cold wave** conditions likely in isolated pockets over Himachal Pradesh during 29th-31st; Punjab, Haryana, Chandigarh during 28th-31st January.
- Cold day** conditions likely in isolated pockets over Himachal Pradesh on 27th January.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at many places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Tamil Nadu, Puducherry & Karaikal, Himachal Pradesh ; **at isolated places** over Andaman & Nicobar Islands, Rayalaseema, North Interior Karnataka, South Interior Karnataka 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:** Oothu (dist Tirunelveli) 5; Kakkachi (dist Tirunelveli), Nalumukku (dist Tirunelveli) 4 Each; Kothagiri (dist Nilgiris), Coonoor PTO (dist Nilgiris), Kil Kotagiri Estate (dist Nilgiris), Manjolai (dist Tirunelveli) 3 Each; Mettupalayam (dist Coimbatore), Sathyamangalam (dist Erode), Coonoor (dist Nilgiris), K Bridge (dist Nilgiris), Arakonam (dist Ranipet), Tiruttani PTO (dist Tiruvallur), Adar Estate (dist Nilgiris), Alakarai Estate (dist Nilgiris), Kodanad (dist Nilgiris), Kinnakorai (dist Nilgiris), Worth Estate Cher (dist Nilgiris) 2 Each; Periyanaickenpalayam (dist Coimbatore), Uthiramerur (dist Kancheepuram), Mettupatti (dist Madurai), Ketti (dist Nilgiris), Pallipattu (dist Tiruvallur), Poonamallee (dist Tiruvallur), Tiruttani (dist Tiruvallur), Cheyyar (dist Tiruvannamalai), Gudiyatham (dist Vellore), Melalathur (dist Vellore), Tindivanam (dist Villupuram), Papanasam (dist Tirunelveli), Poonamalle ARG (dist Tiruvallur), Virinjipuram AWS (dist Vellore), Bhuvanagiri (dist Cuddalore), Pulipatti (dist Madurai), Avalanche (dist Nilgiris), Koratur (dist Tiruvallur), Katpadi (dist Vellore), Annamalai Nagar (dist Cuddalore), Kodaikannal Boat Club (dist Dindigul), Thaniamangalam (dist Madurai), Burliar (dist Nilgiris), Billimalai Estate (dist Nilgiris), Barwood (dist Nilgiris), Chamraj Estate (dist Nilgiris), Geddai (dist Nilgiris), Taluk Office Pandalur (dist Nilgiris), Pillur Dam Mettupalayam (dist Coimbatore), Minnal (dist Ranipet), Ranipet AWS (dist Ranipet) 1 Each; **Kerala & Mahe:** Urumi AWS (dist Kozhikode) 3; Kurudamannil (dist Pathanamthitta) 2; Kannur (dist Cannur), Chemberi AWS (dist Cannur), Pirappancode AWS (dist Thiruvananthapuram) 1 Each; **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:** Gund (dist Ganderbal), Gulmarg RS (dist Baramulla) 3 Each; Raj Pura ARG (dist Poonch), Govindpura AWS (dist Ramban), Poonch (dist Poonch), Banihal (dist Ramban), Batote (dist Ramban), Kupwara (dist Kupwara) 2 Each; Reasi ARG (dist Reasi), Bandipora (dist Bandipore), Rajouri (dist Rajouri), Kukernag (dist Anantnag), Pahalgam (dist Anantnag), Qazi Gund (dist Kulgam), Badarwah (dist Doda), Awantipur IAF (dist Pulwama), Srinagar AP (dist Badgam), Katra (dist Reasi), Udampur (IAF) (dist Udampur) 1 Each; **Rayalaseema:** Palasamudram (dist Chittoor), Chittoor (dist Chittoor) 2 Each; Pullampeta (dist Annamayya District) 1; **Himachal Pradesh:** Kukumsheri AWS (dist Lahaul & Spiti), Kothi (dist Kullu), PTO Koksar (dist Lahaul & Spiti), PTO Gondla (dist Lahaul & Spiti), Kukumsheri AWS (dist Lahaul & Spiti), Kothi (dist Kullu), PTO Koksar (dist Lahaul & Spiti), HMO Hansa (dist Lahaul & Spiti), PTO Gondla (dist Lahaul & Spiti) 2 Each; Bharmaur (dist Chamba), Saloni (dist Chamba), Keylong (dist Lahaul & Spiti), HMO Hansa (dist Lahaul & Spiti), Chhatrari (dist Chamba), Manali (dist Kullu), Bharmaur (dist Chamba), Saloni (dist Chamba), Keylong (dist Lahaul & Spiti), Chhatrari (dist Chamba), Manali (dist Kullu), Kalpa (dist Kinnaur) 1 Each; **Andaman & Nicobar Islands:** Iaf Carnicobar (dist Nicobar) 2.

❖ **Minimum Temperature Departures (as on 27-01-2026):** **below normal (-1.6°C to -3.0°C)** at few places over East Uttar Pradesh, at isolated places over West Uttar Pradesh, Himachal Pradesh **above normal by (2°C to 4°C)** at may places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, Rayalaseema, Coastal Karnataka at Few places East Rajasthan, Himachal Pradesh, Uttarakhand, Madhya Pradesh, Bihar, Jharkhand; at isolated places over West Bengal, Telangana, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Interior Karnataka, Vidarbha. **The lowest minimum temperature** of 4.5°C is reported at ALWAR (RAJASTHAN) over the Plains of India.

❖ **Maximum Temperature Departures (as on 26-01-2026):** **below normal (-1.6°C to -3.0°C)** at many places over Rajasthan, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad Region; **at few places over** Himachal Pradesh, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka. **The highest maximum temperature** of 36.0°C is reported at KOTTAYAM (KERALA).

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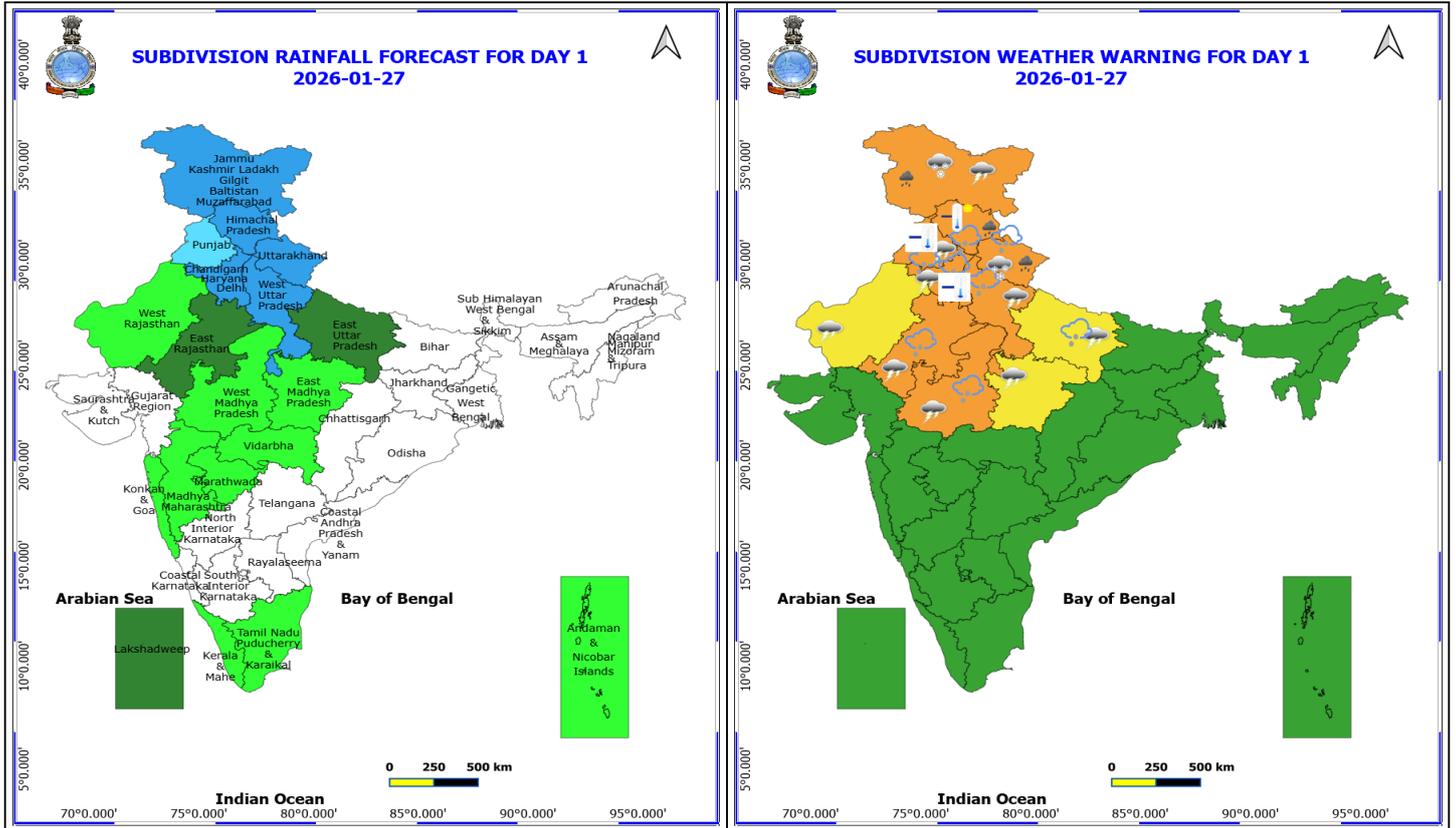
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Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance now seen as cyclonic circulation** over North Pakistan & neighbourhood between 3.1 & 4.5 km above mean sea level with the trough aloft in middle & upper troposphere westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 65°E to the north of Lat. 22°N.
- The induced **cyclonic circulation** over southwest Rajasthan & neighbourhood persists and now extends upto 1.5 km above mean sea level.
- The **trough** now runs from northeast Arabian sea to north Punjab across Saurashtra & Kutch, West Rajasthan upto 1.5 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 135 knots at 12.6 km above mean sea level prevails over Northeast India.
- A fresh **western disturbance** is likely to affect northwest India from the night of 30th 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.

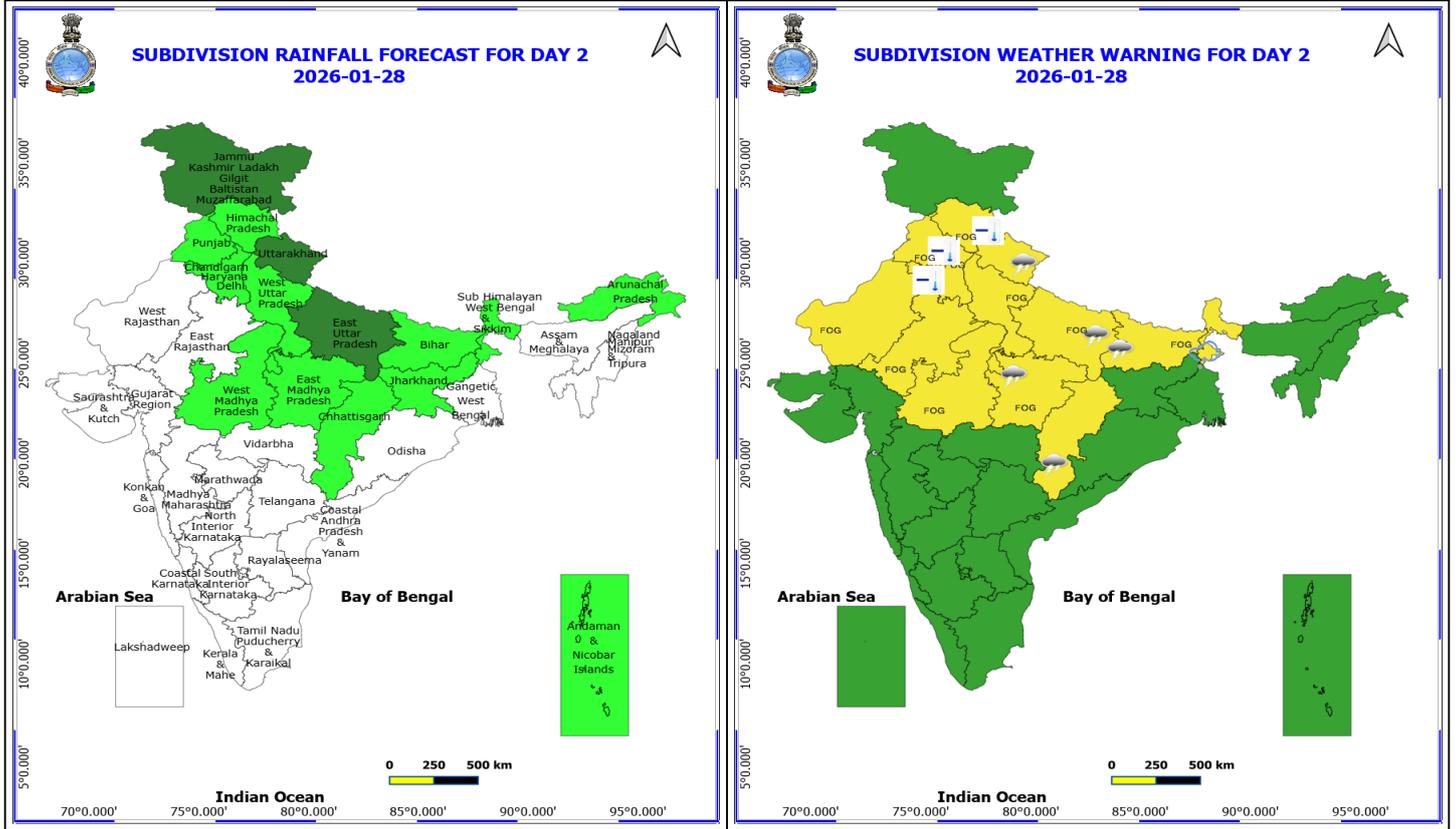


27 January (Day 1)

- ❖ **Heavy Rainfall** very likely at isolated places over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand.
- ❖ **Heavy Snowfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over East Rajasthan, Haryana, Chandigarh & Delhi, Himachal Pradesh, Punjab, Uttar Pradesh, Uttarakhand and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Haryana, Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab and Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over East Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Madhya Pradesh and West Rajasthan.
- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Cold Day conditions** very likely at isolated places over Himachal Pradesh.
- ❖ **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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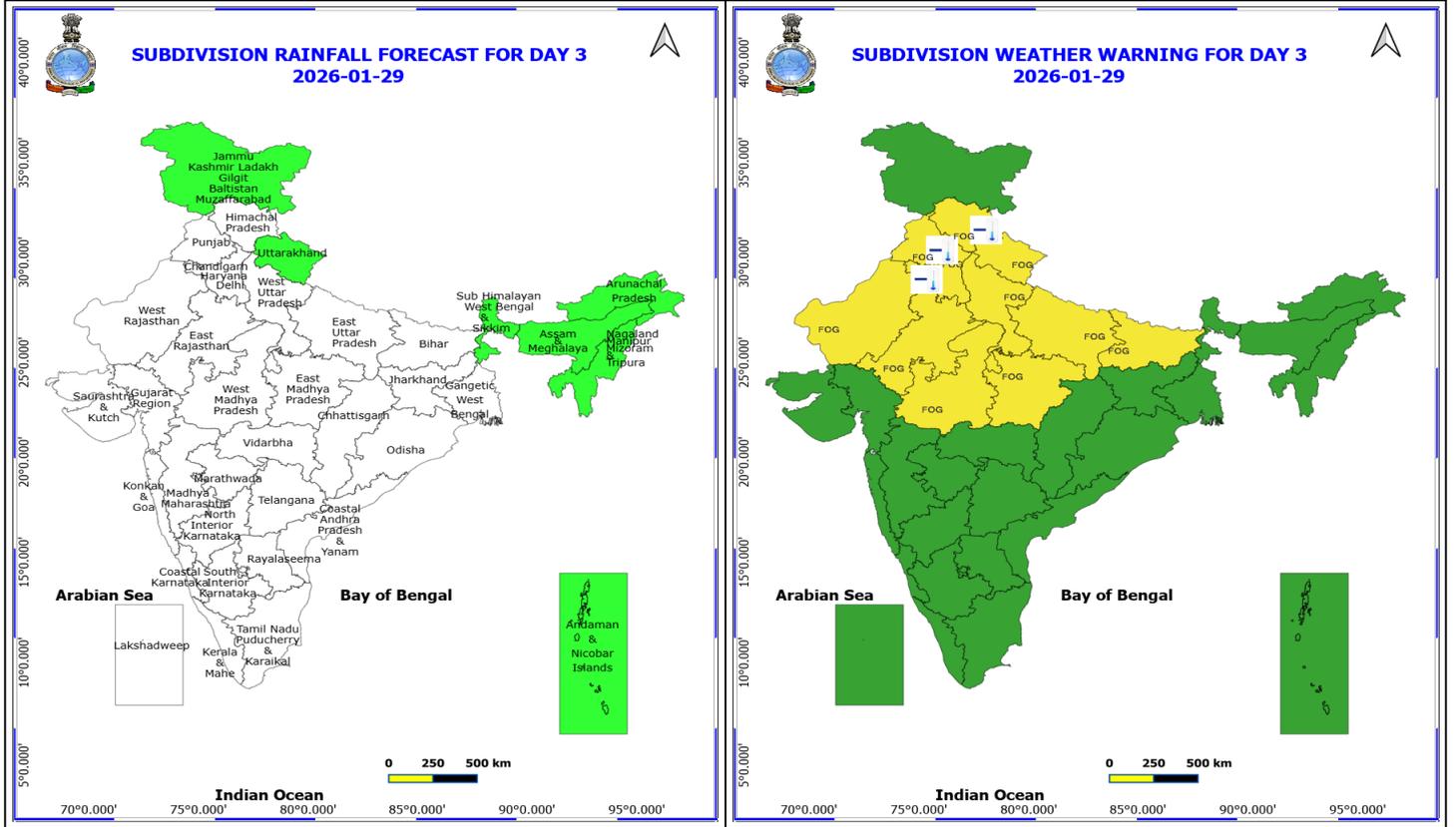
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28 January (Day 2)

- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar and East Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Chhattisgarh and East Madhya Pradesh.
- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh and Punjab.
- ❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Madhya Pradesh, Punjab, Rajasthan and Uttar Pradesh.
- ❖ **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.

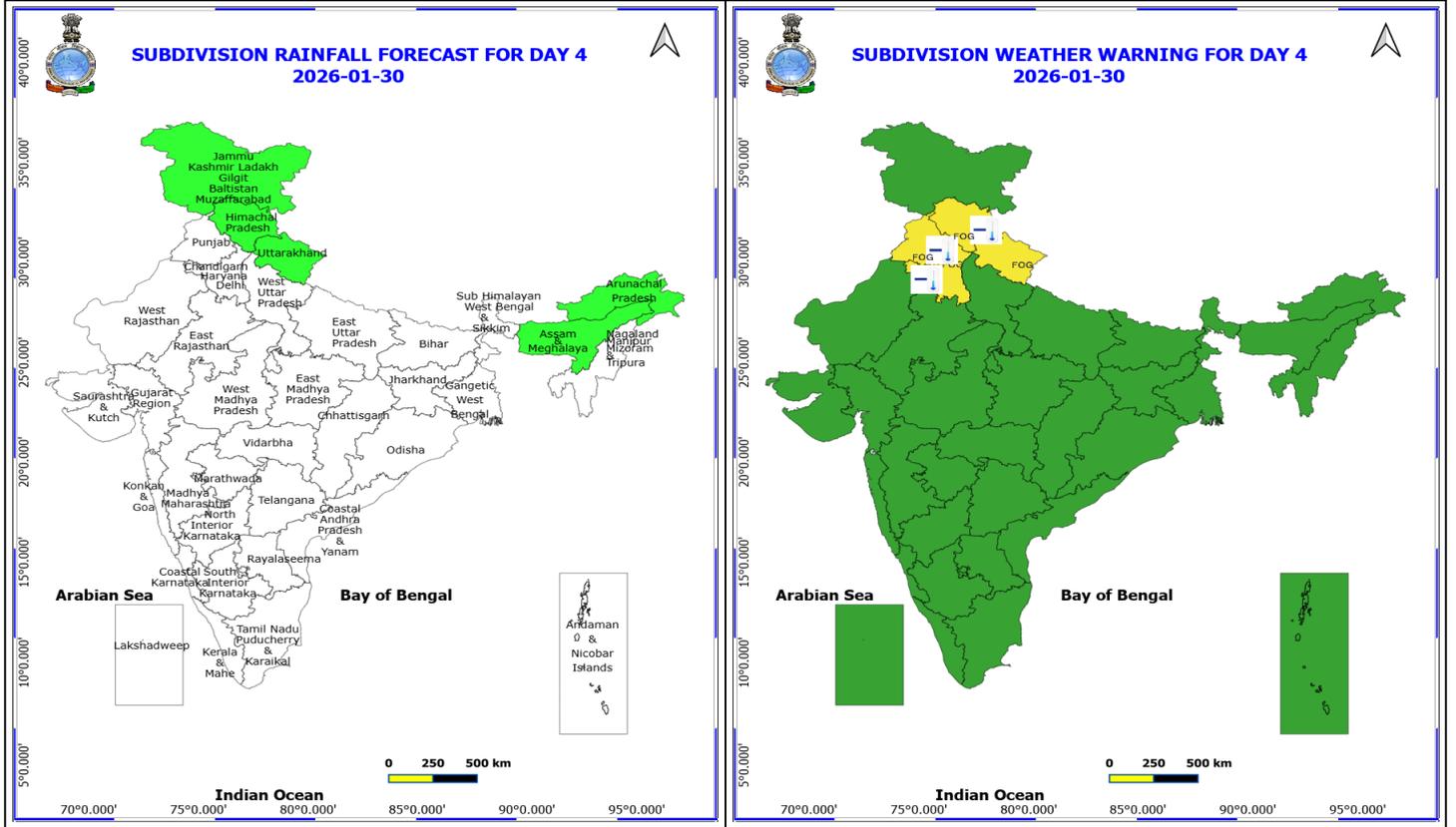
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29 January (Day 3)

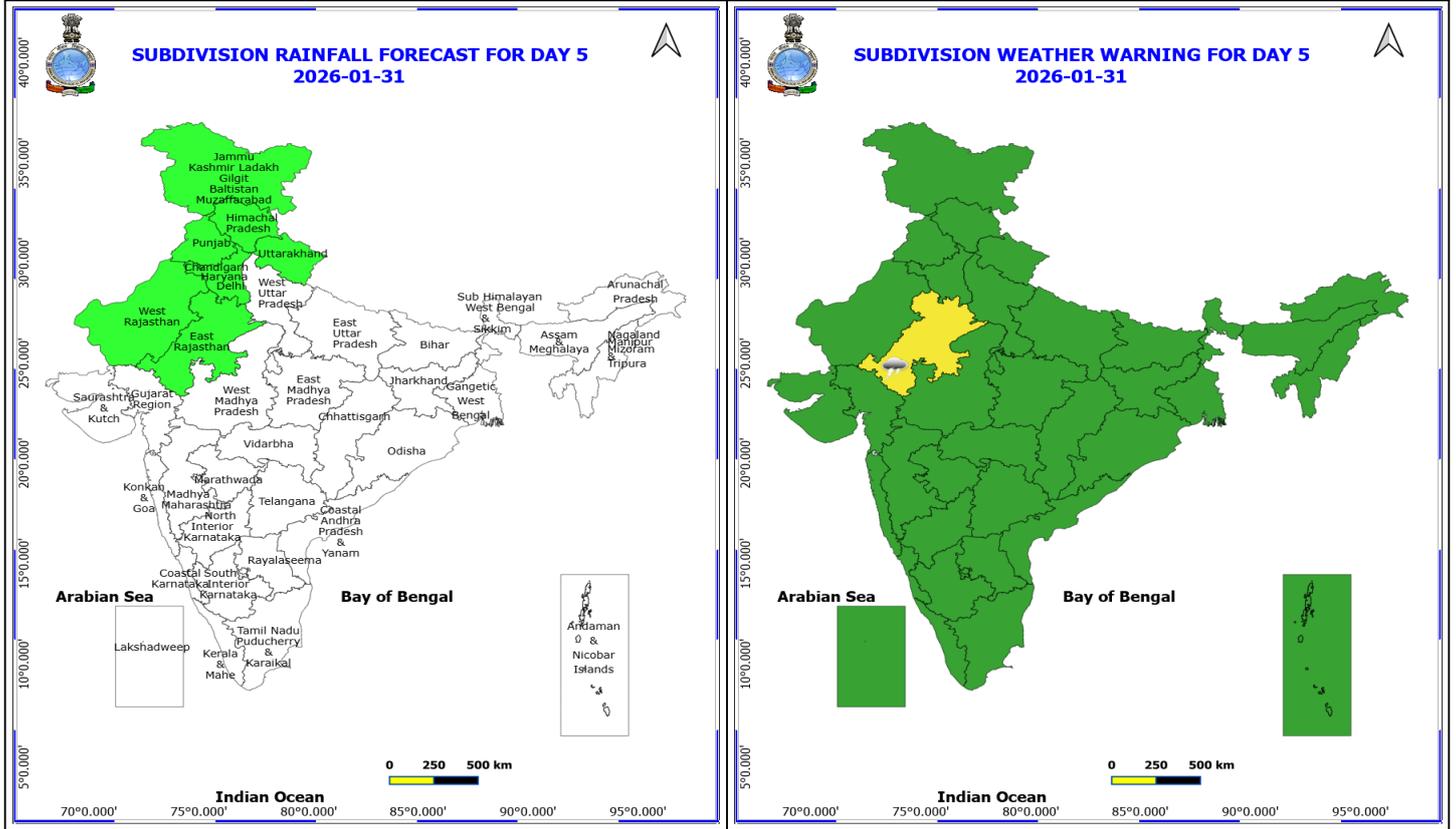
- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh and Punjab.
- ❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Madhya Pradesh, Punjab, Rajasthan, Uttar Pradesh and Uttarakhand.
- ❖ **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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30 January (Day 4)

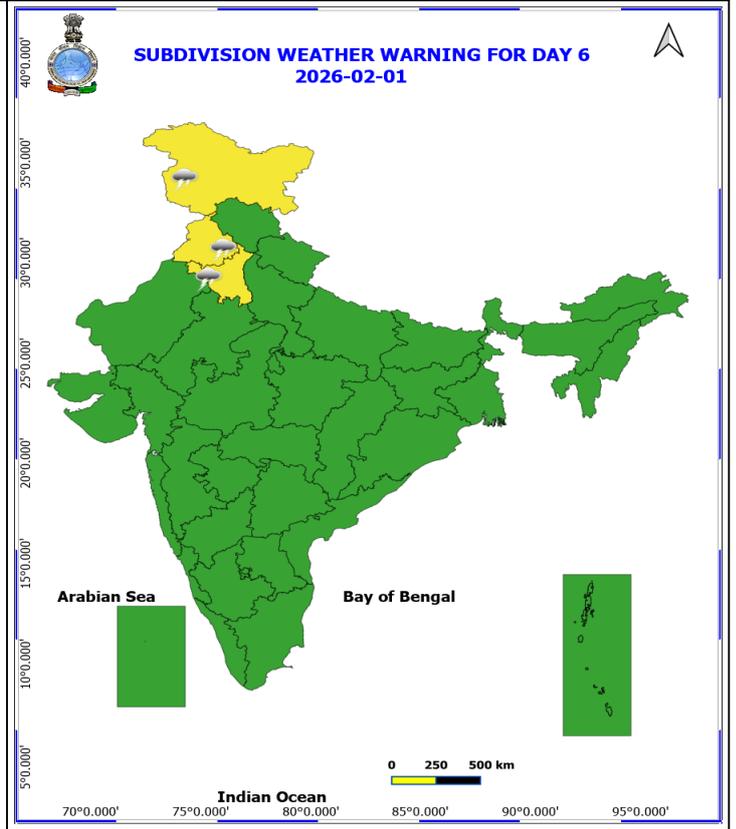
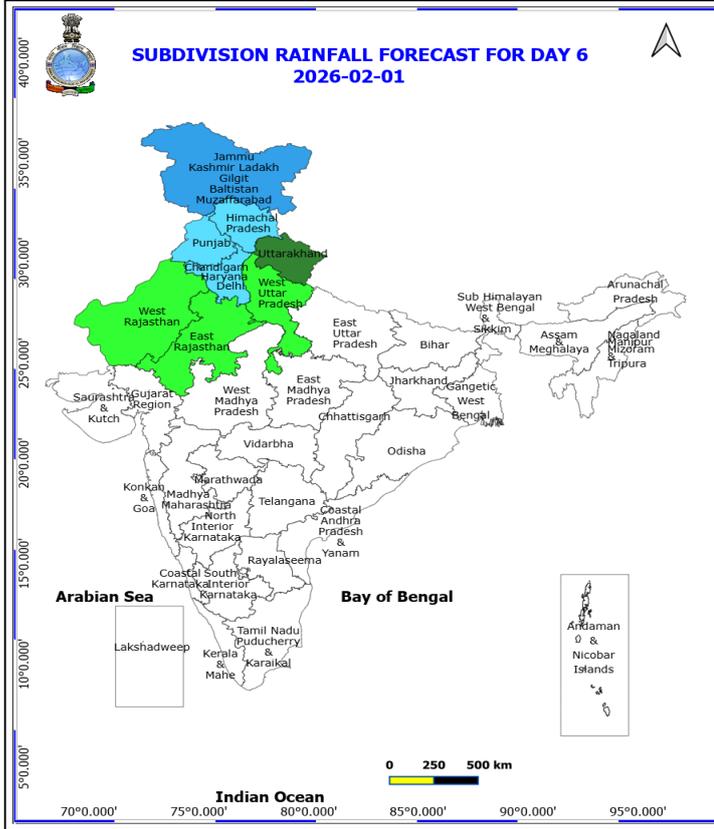
- ❖ **Cold wave conditions** likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh and Punjab.
- ❖ **Dense Fog** likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Punjab and Uttarakhand.
- ❖ **Squally weather with speed reaching 40 to 50 kmph gusting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



31 January (Day 5)

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph) likely at isolated places over East Rajasthan.**

No Fishermen Warning



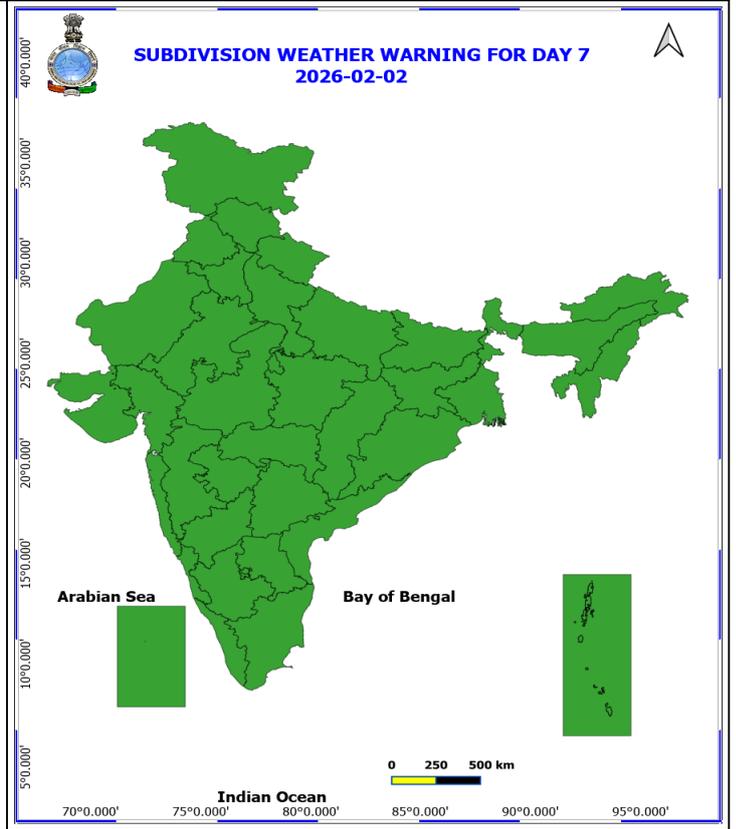
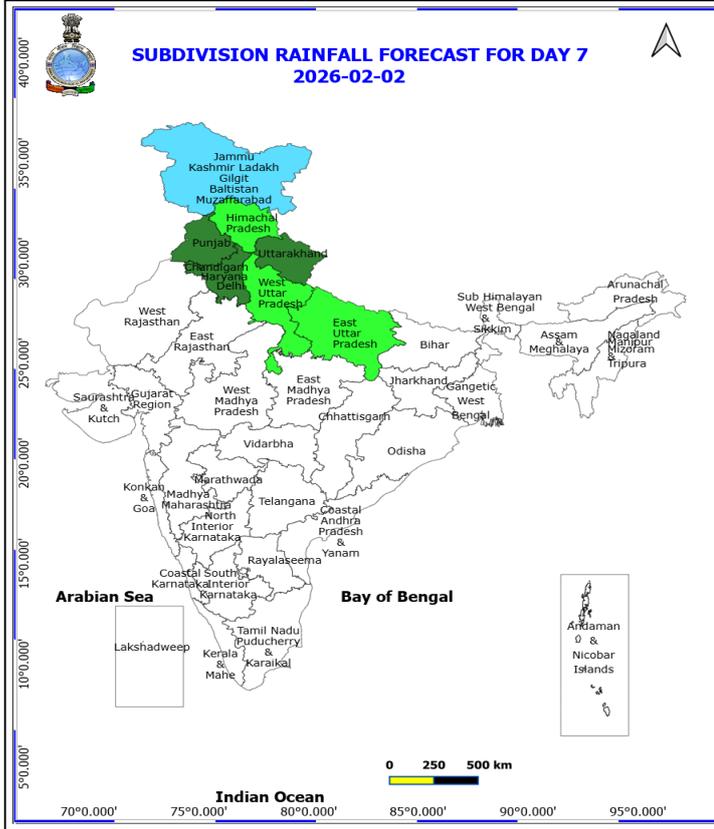
1 February (Day 6)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffargarh and Punjab.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi.

No Fishermen Warning

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2 February (Day 7)

No Warning

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	27- Jan	28- Jan	29- Jan	30- Jan	31- Jan	1- Feb	2- Feb
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	SCT	SCT	DRY	DRY	DRY	DRY	ISOL
11	WEST UTTAR PRADESH	WS	ISOL	DRY	DRY	DRY	ISOL	ISOL
12	UTTARAKHAND	WS	SCT	ISOL	ISOL	ISOL	SCT	SCT
13	HARYANA, CHD & DELHI	WS	ISOL	DRY	DRY	ISOL	FWS	SCT
14	PUNJAB	FWS	ISOL	DRY	DRY	ISOL	FWS	SCT
15	HIMACHAL PRADESH	WS	ISOL	DRY	ISOL	ISOL	FWS	ISOL
16	JAMMU AND KASHMIR AND LADAKH	WS	SCT	ISOL	ISOL	ISOL	WS	FWS
17	WEST RAJASTHAN	ISOL	DRY	DRY	DRY	ISOL	ISOL	DRY
18	EAST RAJASTHAN	SCT	DRY	DRY	DRY	ISOL	ISOL	DRY
19	WEST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
36	LAKSHDWEEP	SCT	DRY	DRY	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 2026-01-26

Fig. 2: Departure of Maximum Temp. Dated 2026-01-26

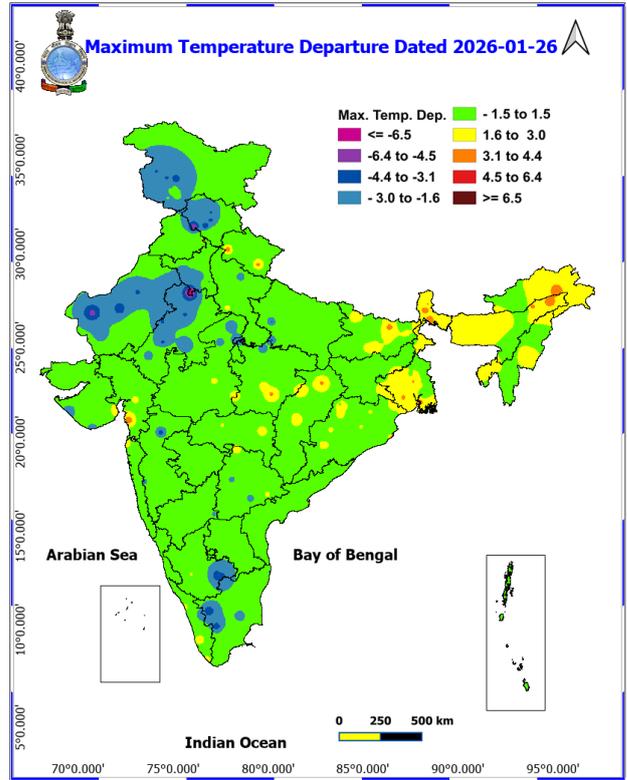
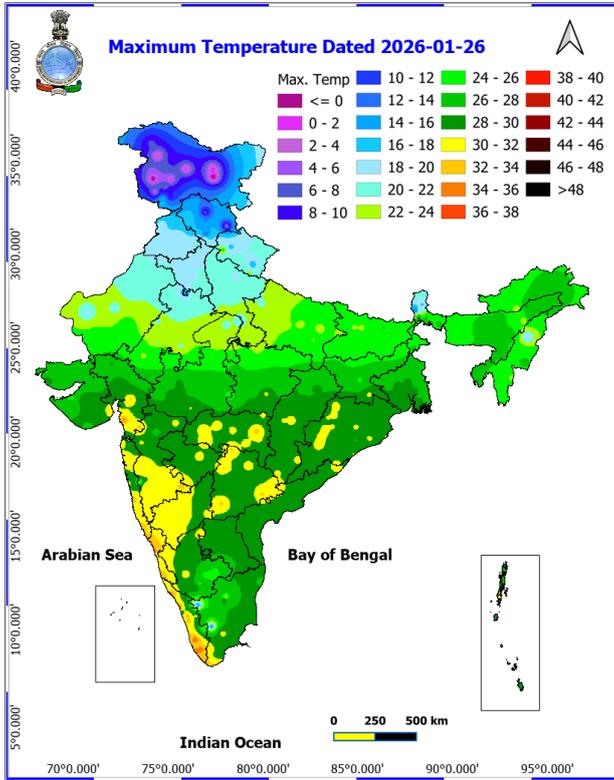
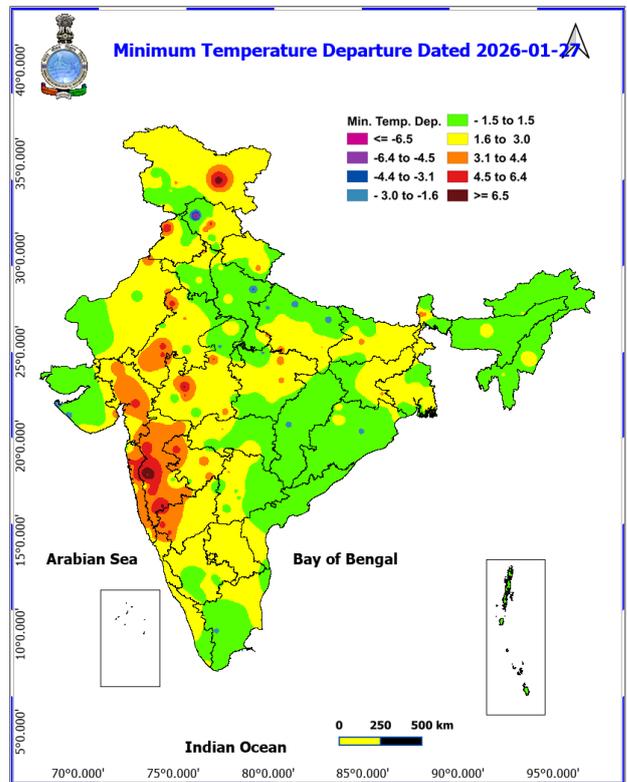
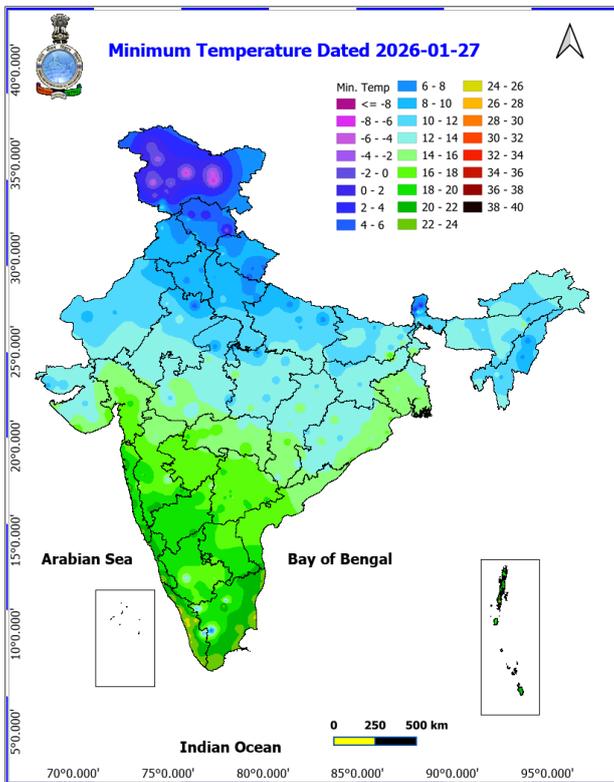
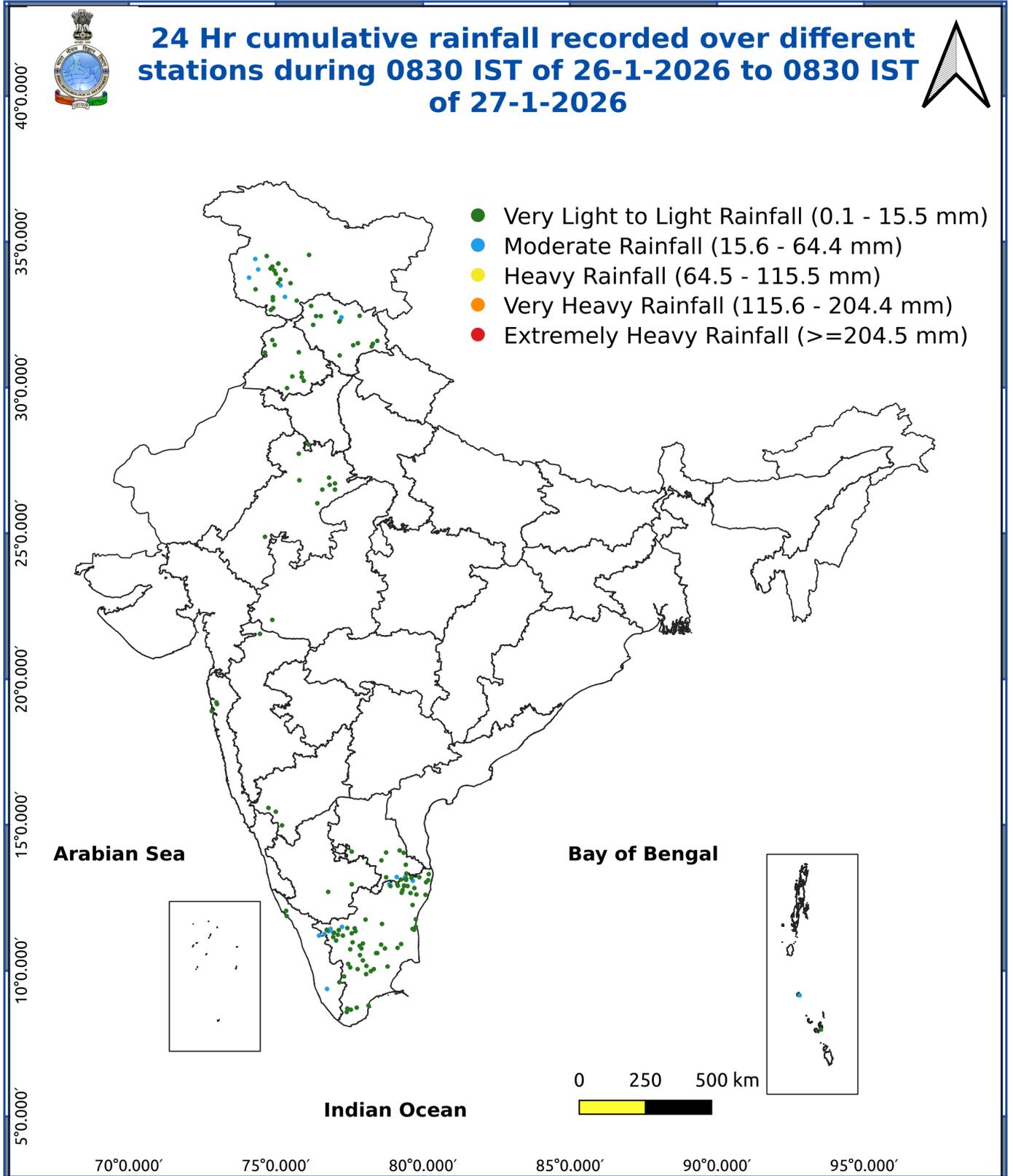


Fig. 3: Minimum Temperatures Dated 2026-01-27

Fig. 4: Departure of Minimum Temp. Dated 2026-01-27





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 & Delhi during 28th-30th; Uttarakhand on 29th & 30th; Uttar Pradesh, Rajasthan and Bihar on 28th & 29th 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 likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, East Rajasthan and West Madhya Pradesh on 27th January.
- **Thunderstorm with lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** over Jammu-Kashmir-Ladakh, Himachal Pradesh, Punjab, Haryana, Chandigarh, Uttar Pradesh on 27th; Uttarakhand on 27th & 28th; on 27th; **lightning & gusty winds speed reaching 30-40 kmph gusting to 50 kmph** over East Rajasthan on 27th 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 conditions likely in isolated pockets over Himachal Pradesh during 29th-31st; Punjab, Haryana, Chandigarh during 28th-31st 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**, ensure proper drainage to drain out excess water from wheat, mustard, chickpea, pea and vegetables fields.

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.

In **Uttarakhand**, ensure proper drainage to drain out excess water from the fields of wheat, barley, lentil, chickpea, mustard, rapeseed, vegetable and plantations crops.

Agromet advisories for likely impact of Hailstorm

Use hail nets to protect orchards and vegetable plants in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, West Uttar Pradesh and Rajasthan.

Agromet advisories for likely impact of Cold Waves / Low Temperatures

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

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

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

Livestock / Poultry

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

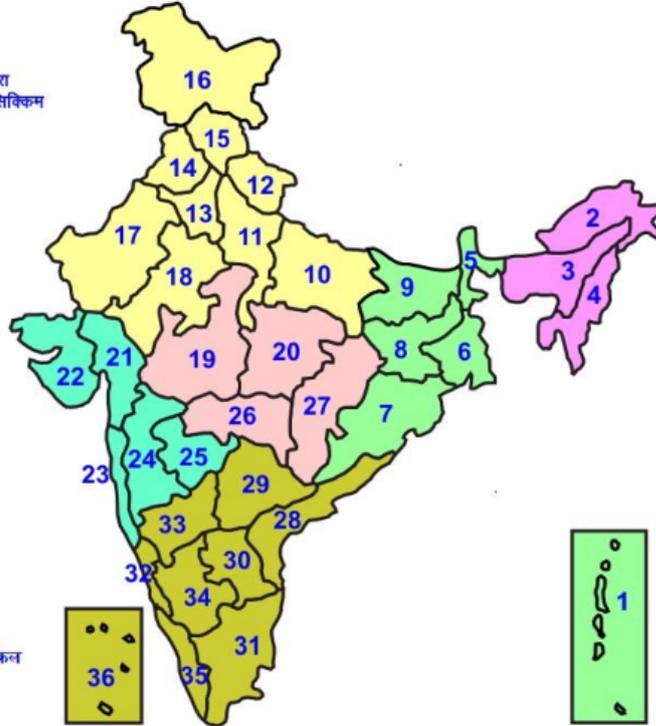
Legends & abbreviations:

Region wise classification of meteorological Sub-Divisions:

- **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
- **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

LEGENDS

- 1 अंडमान और निकोबार 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 | | | |

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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°C to 6.4°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°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°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°C to -6.4°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°C to -6.4°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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