राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

Thursday, January 2, 2025
Time of Issue: 1315 hours IST
(MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and warning:

- A **Western disturbance** as a cyclonic circulation lies over Jammu & adjoining north Pakistan in lower tropospheric levels. Another **western disturbance** as a cyclonic circulation lies over central parts of Iran in lower & middle tropospheric levels with a trough aloft in upper tropospheric westerlies with its axis at 7.6 km above mean sea level roughly along Long. 54°E to the north of Lat. 25°N. An induced cyclonic circulation is also likely to form over Punjab & neighbourhood on 05th January. In addition, moisture feeding from Arabian Sea to northwest India is also likely during 05th to 07th January 2025**. Under its influence**

  - ✓ Light isolated to scattered rainfall/snowfall over Western Himalayan region from 02nd to 04th and scattered to fairly widespread rainfall/snowfall over the region from 05th to 06th January. **Heavy rainfall/snowfall** at isolated places also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 05th & 06th January.
  - ✓ Light isolated to scattered rainfall also likely over the plains of Northwest India during 04th to 06th January.
  - ✓ Isolated thunderstorm accompanied with lightning also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 05th & 06th January.

ii. Temperature, Cold Wave and Fog Forecast:

Temperature Conditions during past 24 hours till 0830 hours IST of today (Annexure IV):

- Minimum temperatures were **below 0°C** over many parts of Jammu, Kashmir & Ladakh; **4-9°C** over many parts of Northwest & Central India and Jharkhand; **9-14°C** over many parts of East India, **14-18°C** over many parts of West India. Today, the lowest minimum temperature of 4.4°C is reported at **Dehri (Bihar)** over the plains of the country.
- There has been a fall in minimum temperature by 2-4^{0}C over many parts of Central India and by 1-2^{0}C over many parts of Northwest & East India during past 24 hours and rise in minimum temperature by 1-2^{0}C over some parts of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, East Rajasthan and Gujarat State.

Forecast of temperature:

- Gradual rise in minimum temperatures by 2-3°C likely over Northwest India during next 5 days.
- No significant change in minimum temperatures likely over Central & East India during next 3 days and gradual rise by 2-3°C thereafter.
- Fall in minimum temperatures by 2-3°C likely over Maharashtra region during next 2 days and no significant change thereafter.
- No significant change in minimum temperatures likely over Gujarat state during next 5 days.

Cold Day Warnings:

Cold Day conditions very likely in some parts of Punjab, Haryana, Chandigarh on 02nd and in isolated pockets of Uttar Pradesh, Rajasthan and West Madhya Pradesh on 02nd January.

Dense Fog Warnings:

Dense fog conditions very likely to prevail during late night/early morning hours in isolated pockets of Punjab, Haryana-Chandigarh, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha on 02nd, Himachal Pradesh, Madhya Pradesh on 02nd & 03rd and Assam & Meghalaya & Nagaland, Manipur, Mizoram & Tripura during 02nd-06th January.

Ground Frost Warnings:

Ground Frost conditions very likely in isolated pockets of Arunachal Pradesh, Meghalaya & Nagaland, Manipur, Mizoram during 02nd–03rd January.

Main Weather Observations:

- **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal.

- **Heavy rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today): Nil.

- **Significant amount of rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Jammu-Kashmir: Bandipora (dist Bandipore) 1.

- **Fog reported** (upto 0830 hours IST of today): **Very dense fog (visibility < 50 m)** reported in isolated pockets of Punjab, Haryana, Delhi, Rajasthan, West Madhya Pradesh, Uttar Pradesh; **dense fog (visibility 50-200 m)** reported in isolated pockets of Himachal PradeshEast Madhya Pradesh, Odisha.

- **Visibility reported** (upto 0830 hours IST of today) (≤ 200 meter)**: Rajasthan:** Kota, Ganganagar & Churu-0 each, **Haryana:** Hissar, Ambala & Chandigarh-0 each, **West Madhya Pradesh:** Bhopal, Rajgarh, Ujjain -0 each, Gwalior & Ratlam -200 each; **Delhi:** Ayanagar-0, Safdarjung-200; **Punjab:** Amritsar-0, Patiala-200; **Uttar Pradesh**: Deomali, Ghazipur & Hamirpur-0 each, Varanasi & Fursatganj-200 each.

- **Cold day to severe cold day conditions** observed in isolated pockets of Haryana, Rajasthan, East Uttar Pradesh and West Madhya Pradesh and **Cold day conditions** in isolated pockets of Punjab and West Uttar Pradesh.

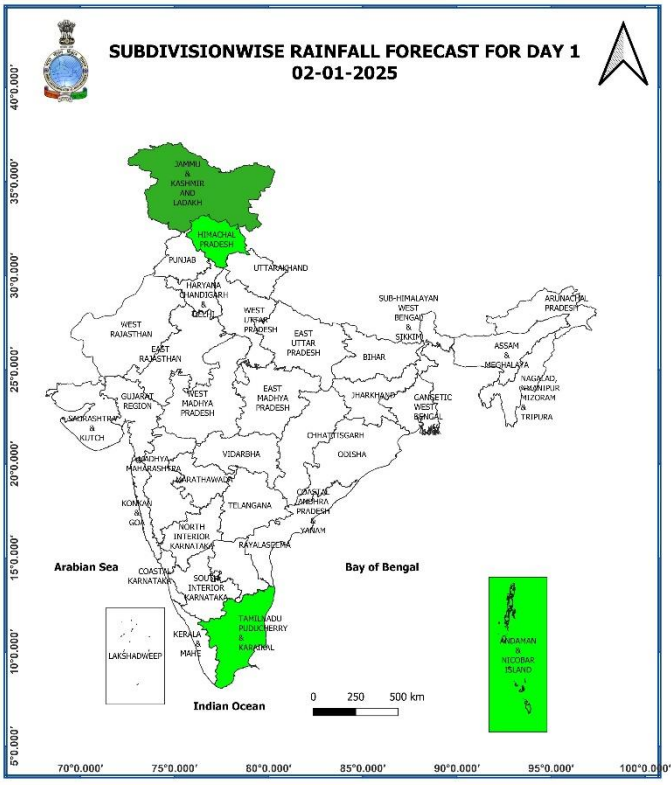
- **Minimum Temperature Departures (as on 02-01-2025):** Minimum temperatures are **appreciably above normal (3°C to 5°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh; **above normal (1°C to 3°C)** at many places over Gujarat Region, Konkan & Goa and Madhya Maharashtra; at isolated places over Punjab, Saurashtra & Kutch, Marathwada, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan and Sub-Himalayan West Bengal & Sikkim. These are **below normal (-1°C to -3°C)** at isolated places over Gangetic West Bengal, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Odisha, Telangana, Bihar and near normal over rest part of the country. Today, the **lowest minimum temperature** of **4.4°C** is reported at **Dehri (Bihar)** over the plains of the country (Fig. 4).

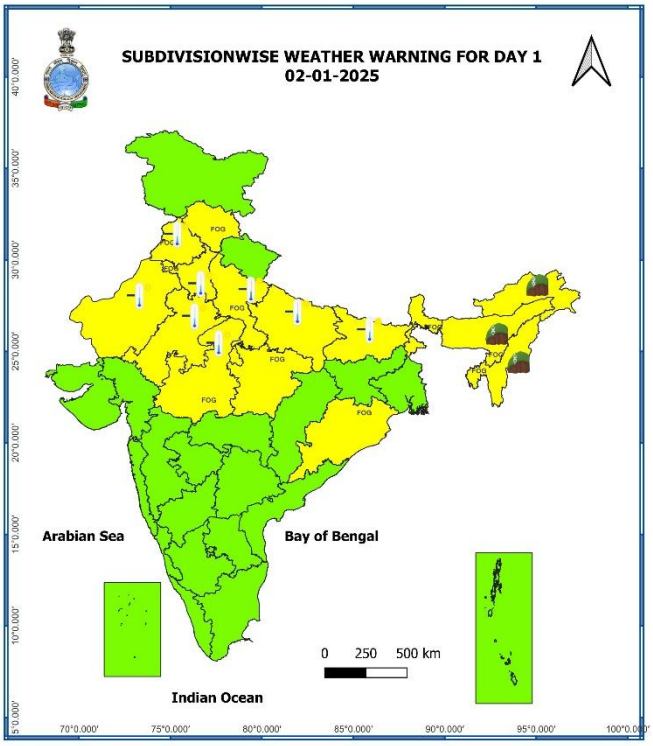
- **Maximum Temperature Departures (as on 01-01-2025):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Vidarbha; at isolated places over Saurashtra & Kutch and Konkan & Goa; **above normal (1.6°C to 3.0°C)** at many places over Coastal Karnataka and Marathwada; at a few places over Gujarat Region; at isolated places over West Rajasthan, Madhya Maharashtra, Odisha, Assam & Meghalaya, Telangana, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. These were **markedly below normal (-5.1° C or less)** at a few places over Haryana-Chandigarh-Delhi and Bihar; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan and West Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Punjab; at a few places over Uttar Pradesh; at isolated places over East Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim; **below normal (-1.6°C to -3.0°C)** at many places over Jharkhand; at isolated places over Gangetic West Bengal and near normal over rest part of the country. Yesterday, **the highest maximum temperature of 35.8°C** was reported at **Karwar (Coastal Karnataka)** over the plains of the country (Fig. 2).

Meteorological Analysis (Based on 0830 hours IST)

- The **Western disturbance** as a cyclonic circulation over Jammu & adjoining north Pakistan at 3.1 km above mean sea level persists.
- The **Western Disturbance** as a Cyclonic Circulation over central parts of Iran between 3.1 & 5.8 km above mean sea level persists with a trough aloft in upper tropospheric westerlies with its axis at 7.6 km above mean sea level runs roughly along Long. 54°E to the north of Lat. 25°N.
- Subtropical **westerly Jet Stream** with core winds of the order upto 120 knots at 12.6 km above mean sea level prevails over Northwest India.
- The **cyclonic circulation** over Equatorial Indian Ocean & adjoining southwest Bay of Bengal at 0.9 km above mean sea level has become less marked.

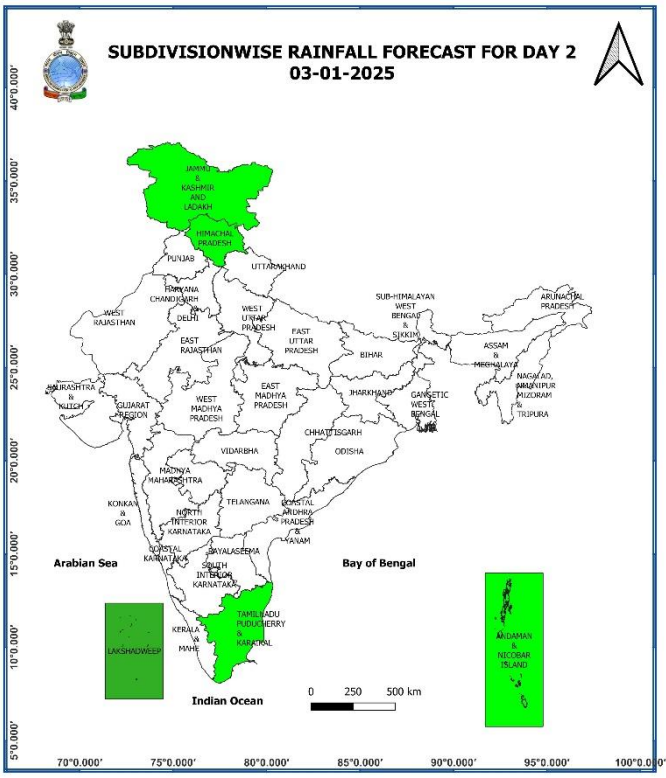
Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 09th January, 2025)

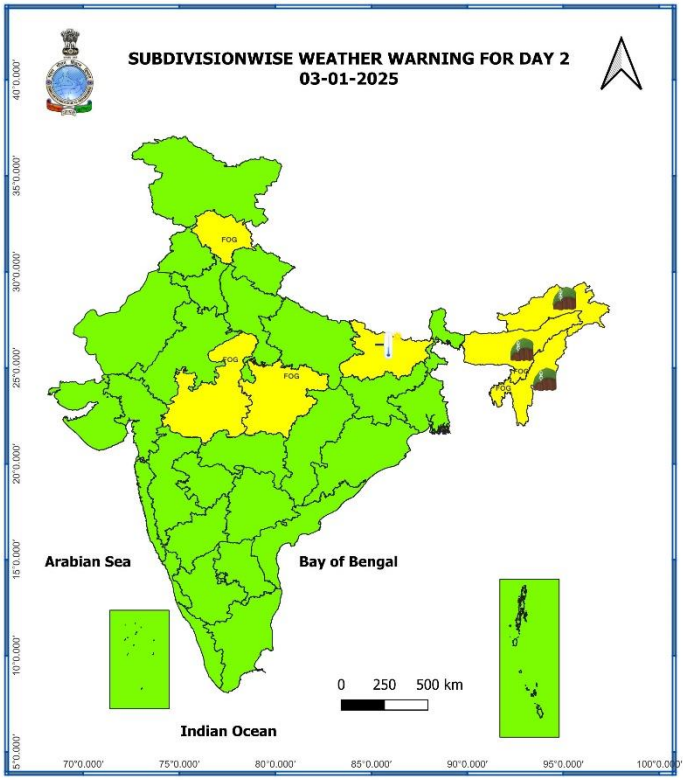




02nd January (Day 1):

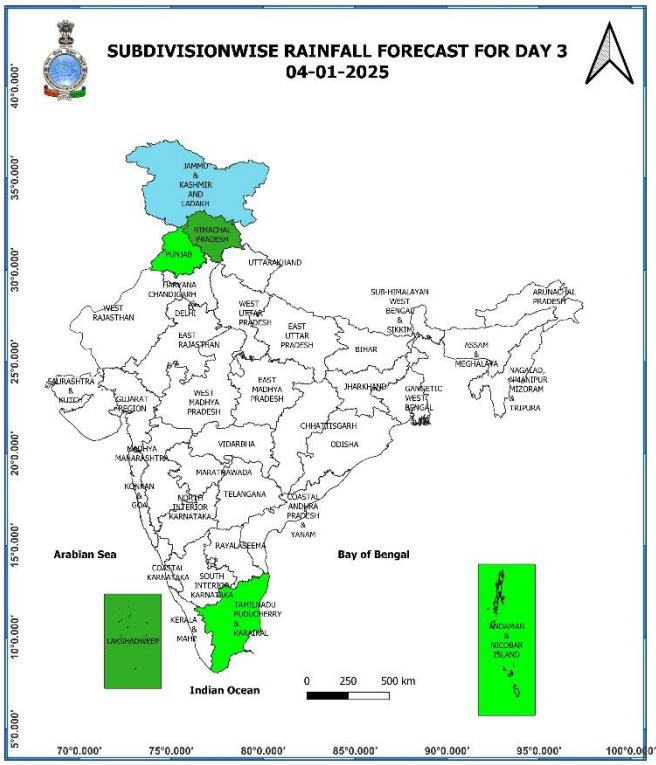
- **Dense fog** very likely in some parts of Punjab, Haryana-Chandigarh-Delhi, and Rajasthan: in isolated pockets of West Uttar Pradesh, Himachal Pradesh, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura in night/morning hours.
- **Cold Day conditions** very likely in some parts of Punjab, Haryana-Chandigarh-Delhi; in isolated places over Uttar Pradesh, Rajasthan, West Madhya Pradesh, Bihar.
- **Ground Frost** very likely at places over Arunachal Pradesh, Meghalaya, Nagaland, Manipur & Mizoram.
- **Squally weather with wind (speed 35 kmph to 45 kmph gusting to 55 kmph)** very likely to prevail over Gulf of Mannar, Comorin area and Maldives area, some southern parts of southwest Bay of Bengal. Along and off South Sri Lanka. **Squally weather with wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** likely to prevail over Western parts of Southwest Arabian Sea, along and off Oman coast. Fisherman are advised not to venture in to these areas.

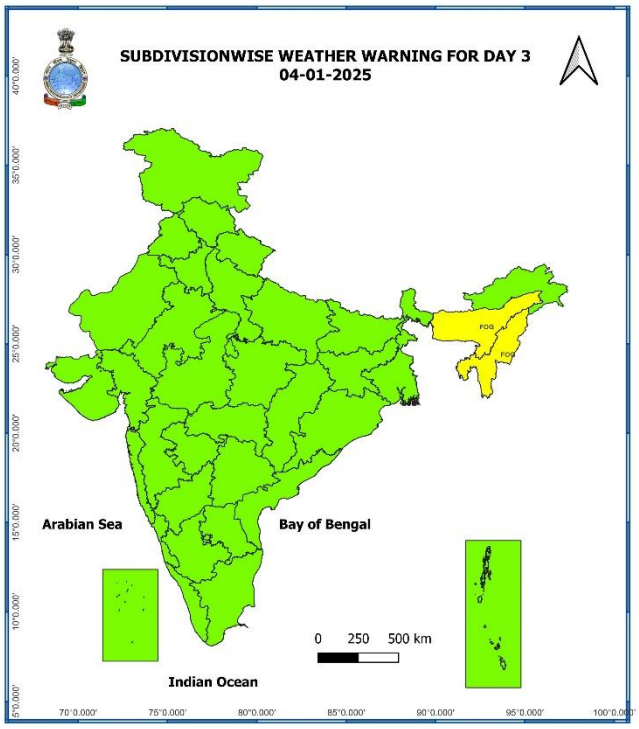




03rd January (Day 2):

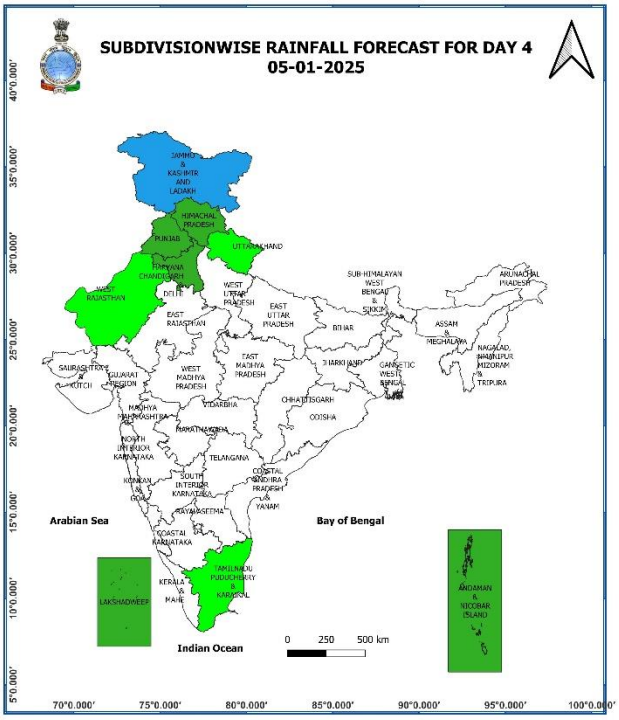
- **Dense fog** very likely in isolated pockets of Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura in night/morning hours.
- **Squally weather with wind (speed 35 kmph to 45 kmph gusting to 55 kmph)** very likely to prevail over Gulf of Mannar, Comorin area and Maldives area, over southern parts of southeast Arabian sea. **Squally weather with wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** likely to prevail over Western parts of Southwest Arabian Sea, along and off Somalia coast. Over western parts of Westcentral Arbian Sea, along and off Oman coast. Fisherman are advised not to venture in to these areas.

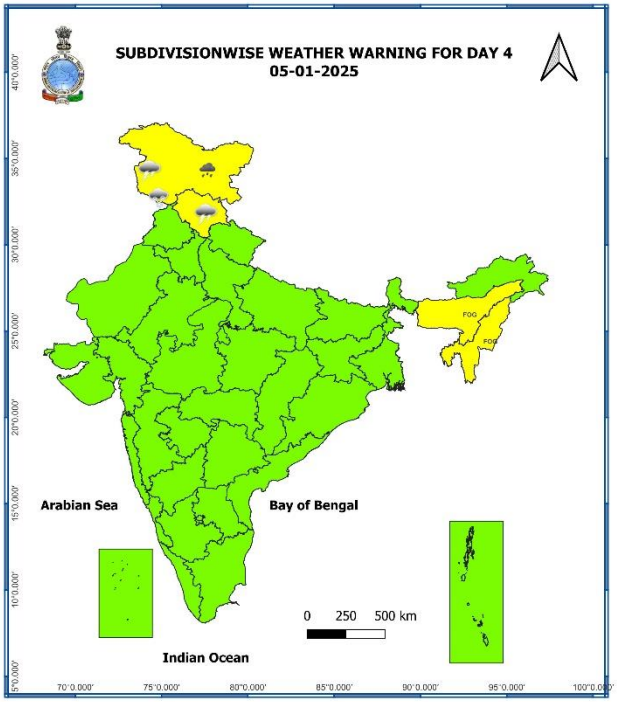




04th January (Day 3):

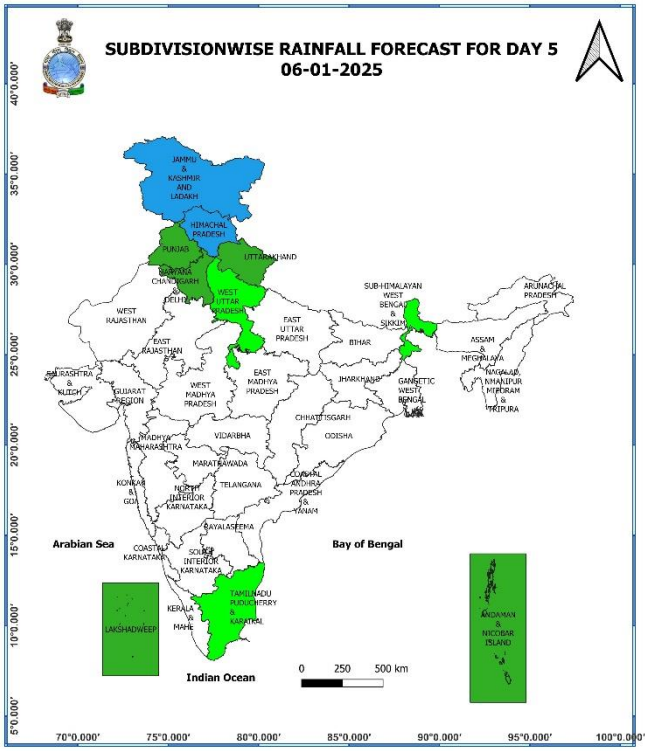
- **Dense fog** likely in isolated pockets of Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura in night/morning hours.
- **Squally weather with wind (speed 35 kmph to 45 kmph gusting to 55 kmph)** very likely to prevail over Gulf of Mannar, Comorin area and Maldives area, over southern parts of southeast Arabian sea. **Squally weather with wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** likely to prevail over Western parts of Southwest Arabian Sea, along and off Somalia coast. Over western parts of Westcentral Arbian Sea, along and off Oman coast. Fisherman are advised not to venture in to these areas.

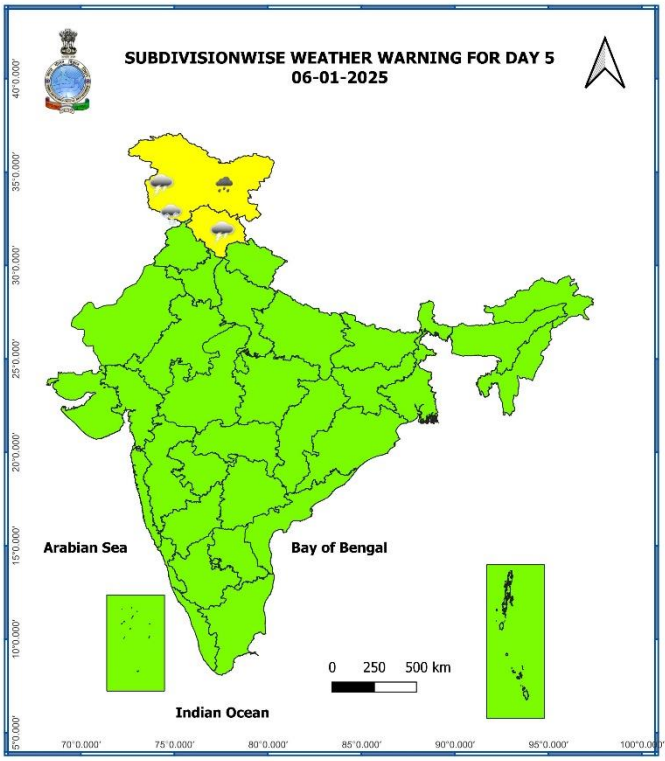




05th January (Day 4):

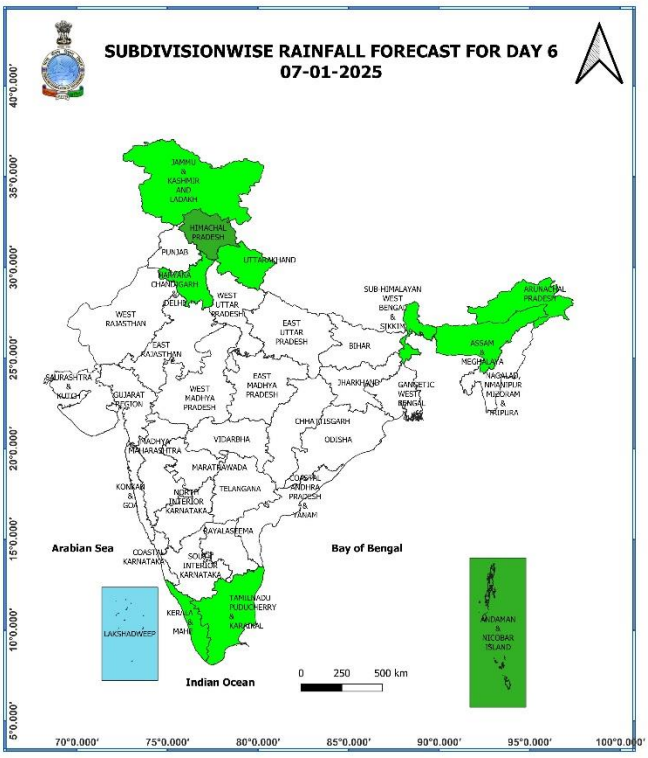
- **Dense fog** likely in isolated pockets of Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura in night/morning hours.
- **Heavy Rainfall/snowfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- **Thunderstorm and lightning** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- **Squally weather with wind (speed 35 kmph to 45 kmph gusting to 55 kmph)** likely to prevail over parts of Comorin area and Maldives area, over southern parts of southeast Arabian sea. **Squally weather with wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** likely to prevail over Western parts of Southwest Arabian Sea, along and off Somalia coast. Over western parts of Westcentral Arbian Sea. Fisherman are advised not to venture in to these areas.

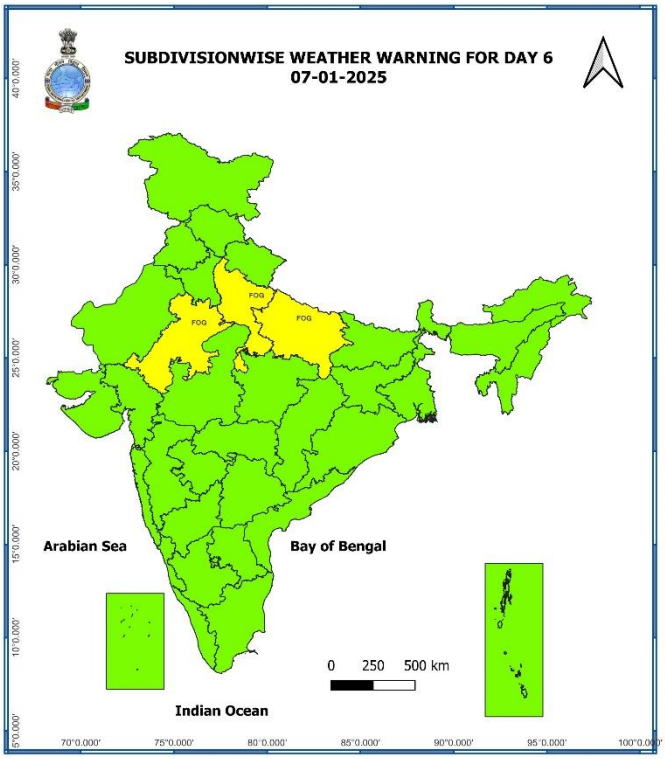




06th January (Day 5):

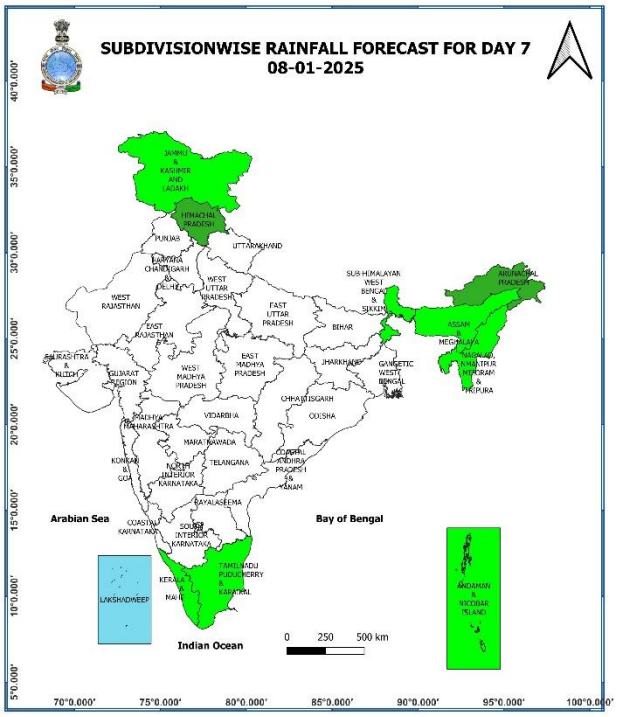
- **Heavy Rainfall/snowfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- **Thunderstorm and lightning** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- **Squally weather with wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** likely to prevail over Western parts of Southwest Arabian Sea, along and off Somalia coast, western parts of Westcentral Arbian Sea. Fisherman are advised not to venture in to these areas.

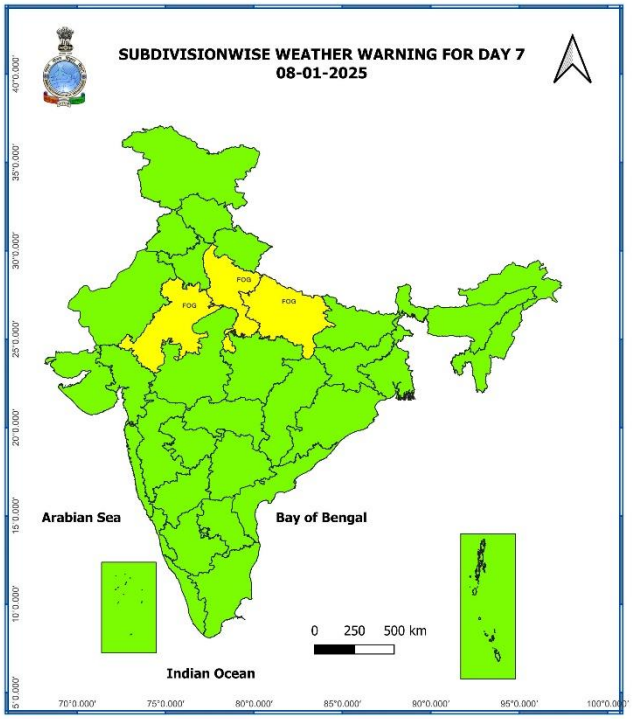




07th January (Day 6):

- **Dense fog** likely in isolated pockets of Uttar Pradesh, East Rajasthan in night/morning hours.





08th January (Day 7):

- **Dense fog** likely in isolated pockets of Uttar Pradesh, East Rajasthan in night/morning hours.

Weather Outlook for subsequent 3 days (During 09th January– 11th January, 2025)

- Isolated to scattered light to moderate rainfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Andaman & Nicobar Islands.
- Mainly dry weather will prevail over rest parts of country.

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

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

Fig. 1: Maximum Temperatures

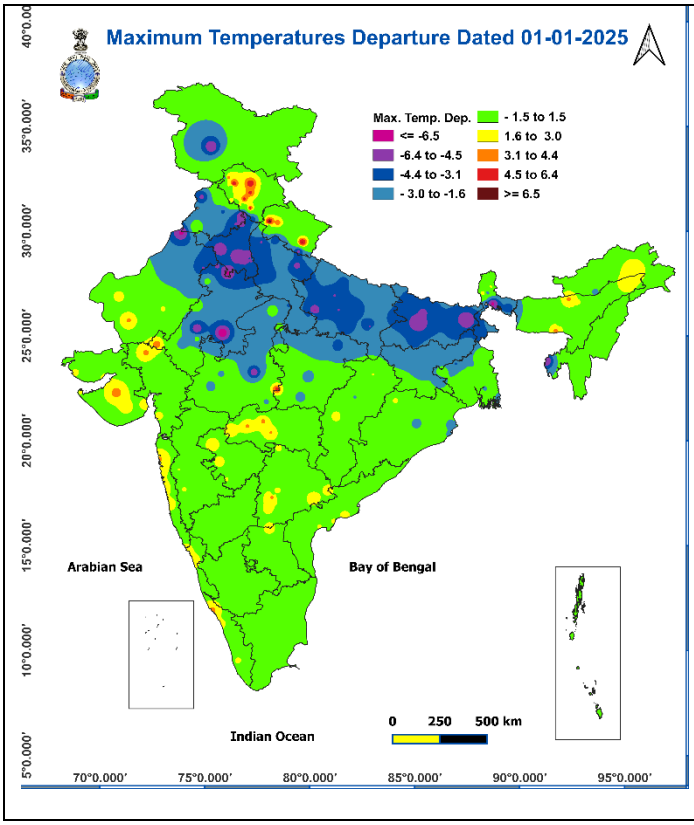


Fig. 2: Departure of Maximum Temperatures

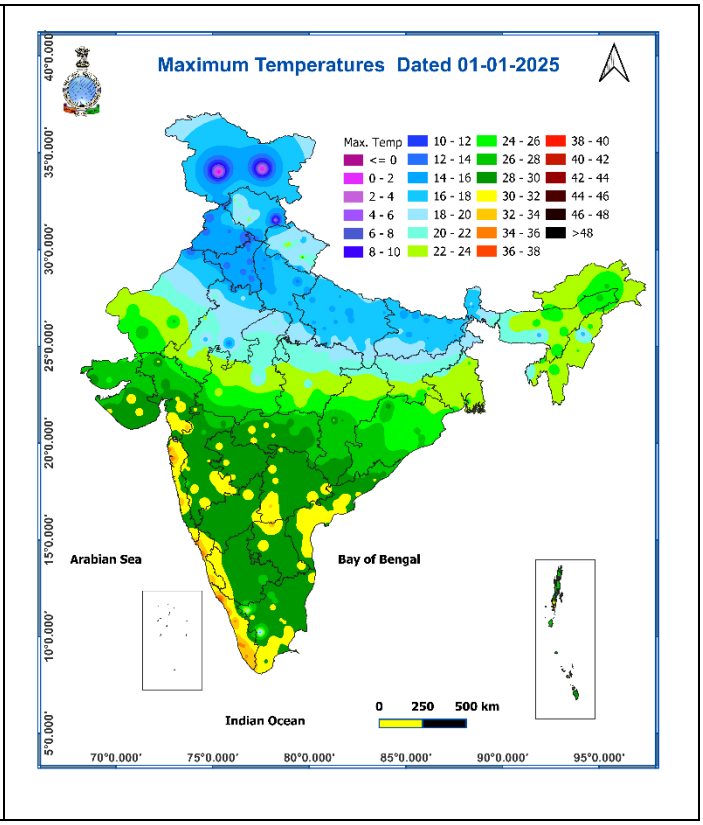


Fig. 3: Minimum Temperatures

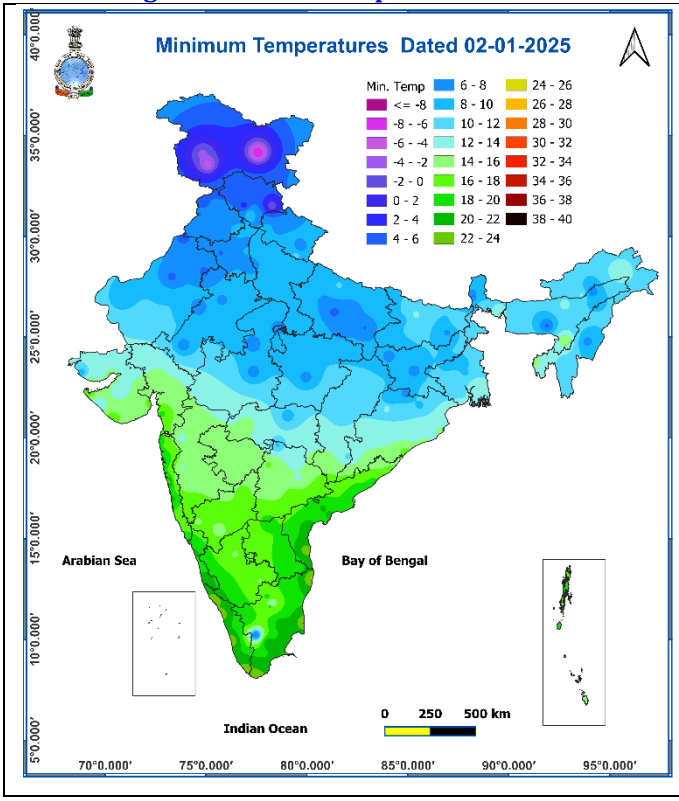
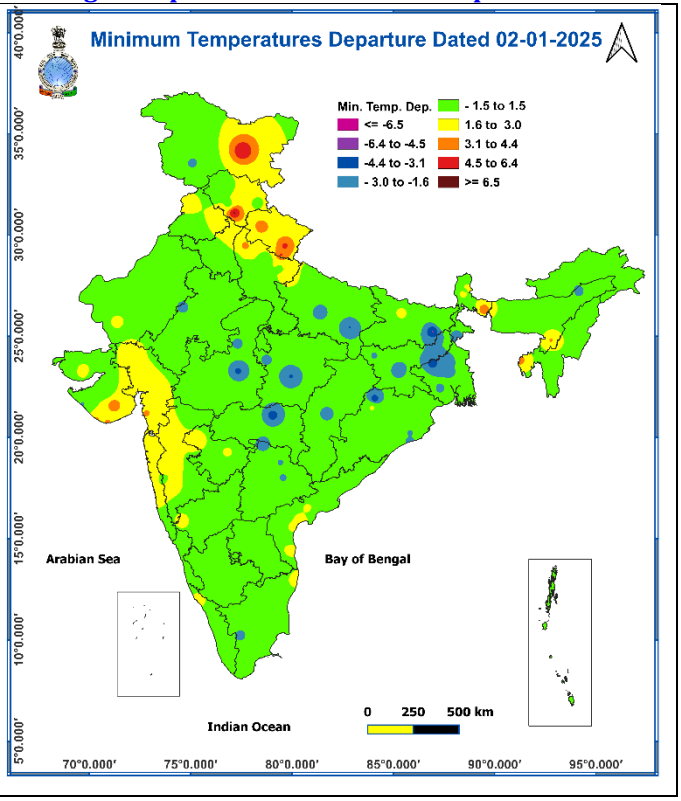
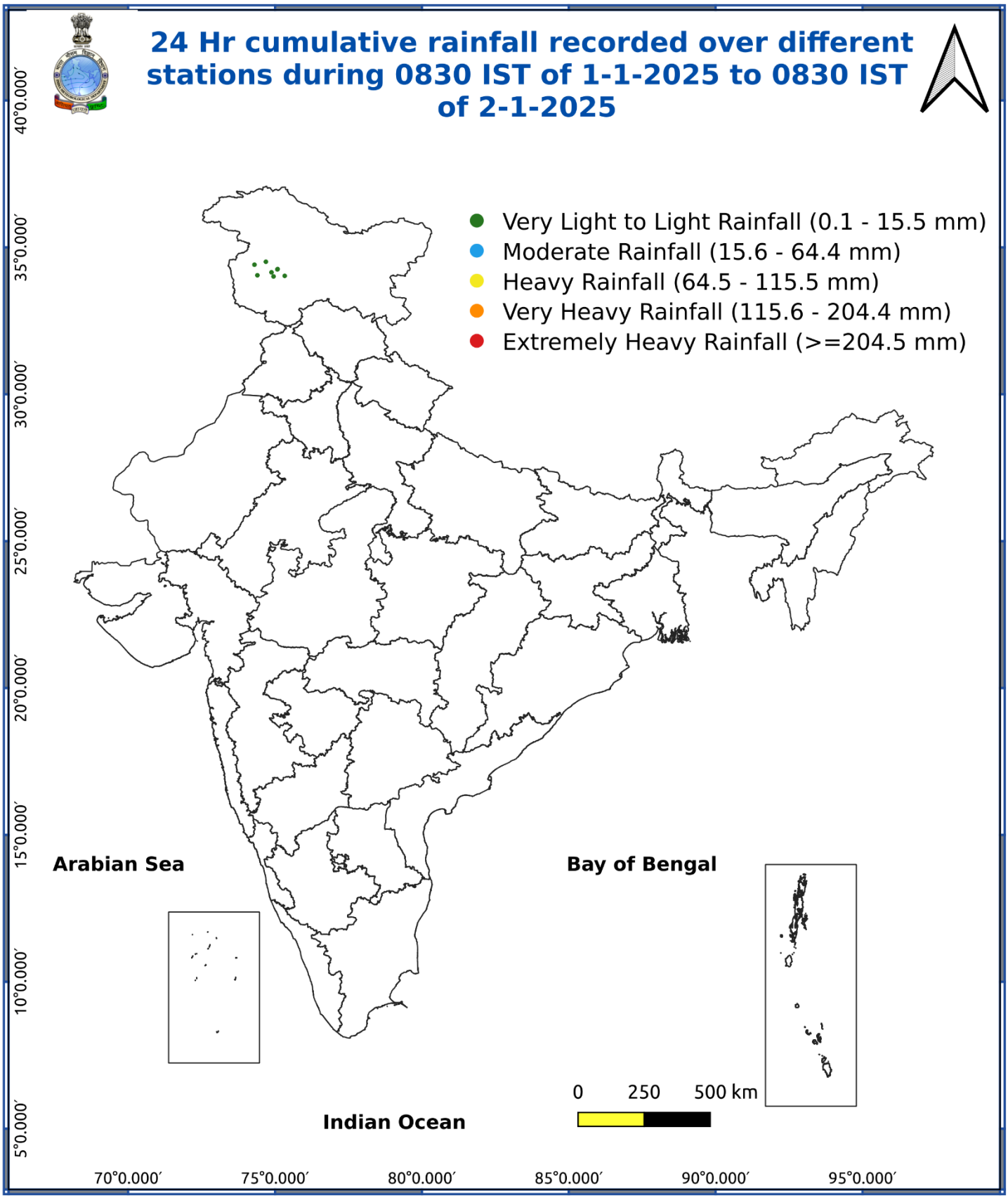


Fig. 4: Departure of Minimum Temperatures



* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.
For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599
(Service to the Nation since 1875)

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



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

❖ Transport and Aviation:
- May affect some airports, highways and railway routes in the areas of met- sub-division.
- Difficult driving conditions with slower journey times.
- Unless taken precautionary measures, it may lead to some road traffic collisions.

❖ Power Sector:
- Chances of Tripping of Power lines in the very dense fog routes.

❖ Human Health:
- Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
- Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
- Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

❖ Transport and Aviation:
- Be careful while driving or outing through any transport.
- Use fog lights during driving.
- Be in touch with airlines, railways and state transport for schedule of your journey.

❖ Power Sector:
- To keep ready Maintenance Team.
- Human Health: To avoid outing until unless emergency and to cover the face.

Impact expected due to Cold Day/Severe Cold day conditions

❖ An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.

❖ Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.

❖ Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.

❖ Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

Action suggested:

❖ Wear several layers of loose fitting, light weight; warm woollen clothing.

❖ Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm Woolen clothing rather than one layer of heavy cloth.

❖ Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.

❖ Avoid or limit outdoor activities.

❖ Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.

❖ Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.

❖ If the affected skin area turns black, immediately consult a doctor.

❖ Maintain ventilation while using Heaters to avoid inhaling toxic fumes.

❖ Take safety measures while using electrical and gas heating devices.

❖ Extreme care needed for vulnerable people.

❖ Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.

❖ Protect livestock from cold weather.

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

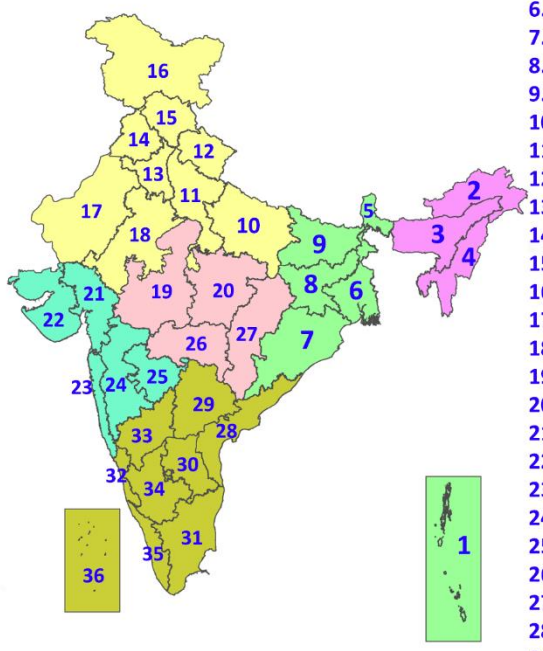
- In **North Eastern States**, apply light and frequent irrigation to the standing crops in the evening to protect them from low temperature stress or cold injuries. Use mulching and cover vegetable nurseries and young fruit plants with straw/polythene sheets to maintain optimum soil temperature.

Livestock

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

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidarbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)

Fog
Heavy Rain
Very Heavy Rain
Extremely Heavy Rain
Thunder & Lightning
Hailstorm
Dust Raising Winds
Heavy Snow
Dust Storm
Heat Wave
Warm Night
Hot Day
Hot & Humid
Strong Surface Winds
Cold Wave
Cold Day
Ground Frost

COLOUR CODED WARNING

- No Warning (No Action)
- Watch (Be Aware)
- Alert (Be Prepared To Take Action)
- Warning (Take Action)

Probabilistic Forecast

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

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.
For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599
(Service to the Nation since 1875)

DEFINITION/CRITERIA

Rain/ Snow *	**Heavy:** 64.5 to 115.5 mm/cm * **Very Heavy:** 115.6 to 204.4 mm/cm* **Extremely Heavy:** > 204.4 mm/cm *
Heat Wave	**When maximum temperature of a station reaches ≥40° C for plains and ≥30° 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 ≥6.5° C **(b). Based on Actual maximum temperature** **Heat Wave:** When actual maximum temperature ≥45°C. **Severe Heat Wave:** When actual maximum temperature ≥47°C **(c). Criteria for heat wave for coastal stations** When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
Warm Night	**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 °C.
Cold Wave	**When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C **(b) Based on actual Minimum Temperature (for Plains only)** **Cold Wave :** When Minimum Temperature is ≤ 4.0 °C **Severe Cold Wave:** When Minimum Temperature is ≤ 2.0 °C **(c) For Coastal Stations** When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
Cold Day	**When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C
Fog	**Phenomenon of small droplets suspended in air and the horizontal visibility < 1km** **Moderate Fog:** When the visibility between 500-200 metres **Dense Fog:** when the visibility between 50- 200 metres **Very Dense Fog:** when the visibility < 50 metres
Thunderstorm	**Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)**
Dust/Sand Storm	**An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.**
Frost	**Ice deposits on ground** Air temperature ≤4°C (over Plains)
Squall	**A strong wind that rises suddenly, lasts for atleast 1 minute.** **Moderate**: Wind speed 52-61 kmph **Severe**: Wind speed 62-87 kmph **Very Severe**: Wind speed >87 kmph
Sea State	**Effect of various waves in the sea over specific area** **Rough to very rough**: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre **High to very high**: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre **Phenomenal**: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
Cyclone	**Cyclonic Storm**: Wind speed 62-87 kmph (34-47 knots) **Severe Cyclonic Storm**: Wind speed 88-117 kmph (48-63 knots) **Very Severe Cyclonic Storm**: Wind speed 118-165 kmph (64 - 89 knots) **Extremely Severe Cyclonic Storm**: Wind speed 166-220 kmph (90 -119 knots) **Super Cyclone Strom**: Wind speed >220 kmph (>119 knots)

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