राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

Friday, January 10, 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 southeast Iran & neighbourhood in lower & upper tropospheric levels. An induced cyclonic circulation lies over southwest Rajasthan & neighbourhood in lower tropospheric levels. there is likely interaction of westerly in association with Western Disturbance and easterly winds at lower tropospheric levels. Under its influence, Light/moderate isolated to scattered rainfall/snowfall likely over Western Himalayan region on 11th & 12th and Light/moderate isolated to scattered rainfall likely over the plains of Northwest India and adjoining central India during 10th -12th January.
  - ✓ Thunderstorm activity at isolated places likely over West Rajasthan on 10th & 11th; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh, West Uttar Pradesh, East Rajasthan & West Madhya Pradesh on 11th; Uttarakhand, East Uttar Pradesh & East Madhya Pradesh on 11th & 12th January. Isolated hailstorm also likely over West Rajasthan on 10th & 11th; over Uttarakhand, Punjab, south Haryana, East Rajasthan and West Madhya Pradesh on 11th January.

- A cyclonic circulation lies over Southeast Bay of Bengal & adjoining Southwest Bay of Bengal in lower tropospheric levels. Under its influence,
  - ✓ Light to moderate rainfall accompanied with thunderstorm, lightning very likely at a few places over Coastal Andhra Pradesh & Yanam and Rayalaseema on 13th; Tamil Nadu, Puducherry & Karaikal during 12th – 14th and Kerala & Mahe on 13th & 14th January with Isolated **heavy rainfall** likely over Tamilnadu, Puducherry & Karaikal on 12th January.
- Light to moderate rainfall accompanied with thunderstorm, lightning very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya on 13th & 14th January.

ii. Temperature, Cold Wave and Fog Forecast:

Forecast of temperature:

- Rise in minimum temperatures by 2-3°C likely over Northwest India during next 3 days and gradual fall by 2-4°C thereafter.
- Gradual rise in minimum temperatures by 3-4°C likely over Central India during next 2 days and gradual fall by about 2°C thereafter.
- No significant change in minimum temperatures likely over East India during next 24 hours and gradual rise by 2-4°C during subsequent 4 days.
- Gradual rise in minimum temperatures by 2-3°C likely over Maharashtra & Gujarat state during next 2 days and fall by 2-4°C thereafter.

Cold Wave Warnings:

Cold wave conditions very likely in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh on 10th January.

Dense Fog Warnings:

Dense to very Dense fog Condition very likely to continue to prevail during night/early morning hours in some parts of Punjab, Haryana-Chandigarh on 12th & 13th; in isolated pockets of East Uttar Pradesh till 11th; East Rajasthan on 12th & 13th January.

Dense fog conditions very likely to continue to prevail during night/early morning hours in isolated pockets of Punjab, Haryana, Chandigarh on 10th, 11th, 14th & 15th; West Rajasthan on 11th & 12th; East Rajasthan on 11th; Madhya Pradesh till 11th; Sub-Himalayan West Bengal & Sikkim during 11th-13th; Bihar & Assam & Meghalaya till 12th; East Uttar Pradesh during 12th-15th; Himachal Pradesh during 13th-15th; Odisha & Nagaland, Manipur, Mizoram & Tripura till 13th; West Uttar Pradesh till 15th January.

Cold Day Warnings:

Cold day conditions very likely in isolated pockets of Himachal Pradesh on 12th January.

Ground Frost Warnings:

Ground frost conditions very likely in isolated pockets of Himachal Pradesh on 10th January

Main Weather Observations:

- **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at many places** over Andaman & Nicobar Islands; **at isolated places** over Arunachal Pradesh.

- **Heavy rainfall** observed (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): **Andaman & Nicobar Islands:** Port Blair (dist South Andaman) 2, Hut Bay (dist South Andaman) 1.

- **Fog reported** (upto 0830 hours IST of today): **Dense to very dense fog** in most parts of Punjab; in some parts of Haryana and Uttar Pradesh, Delhi; in isolated pockets of Chandigarh, West Madhya Pradesh and **dense fog** in isolated pockets of Himachal Pradesh, Odisha and Assam.

- **Visibility reported** (upto 0830 hours IST of today) (< 200 meter)**: Punjab:** Amritsar, Patiala- 0 each; **Delhi:** Palam- 0, Safdarjung 50; **Haryana:** Ambala, Chandigarh 0 each; **West Madhya Pradesh:** Gwalior 0; **East Uttar Pradesh:** Kushinagar, Kanpur, Prayagraj 0 each, Varanasi 20, Lucknow 100; **West Uttar Pradesh:** Agra 0, Aligarh 30, Meerut 40; **Himachal Pradesh:** Bilaspur, Una, Dehragopipur 50 each; **Assam:** Guwahati- 150.

- **Cold wave to severe cold wave conditions** prevailed in isolated pockets of Himachal Pradesh; **Cold wave** in isolated pockets of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Haryana.

- **Ground Frost conditions** reported in isolated pockets of Uttarakhand.

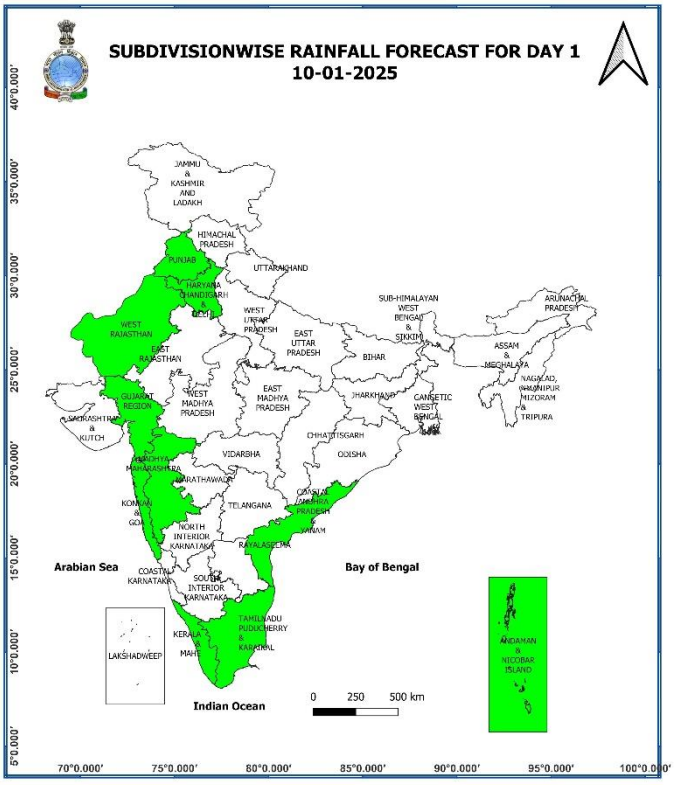
- **Minimum Temperature Departures (as on 10-01-2025):** Minimum temperatures are appreciably **appreciably above normal (3.1°C to 5.0°C)** at a few places over Andaman & Nicobar Islands; **above normal (1.6°C to 3.0°C)** at many places over Konkan & Goa; at few places over Madhya Maharashtra; at isolated places over West Rajasthan. These are **below normal (-1°C to -3°C)** at many places over Vidarbha; at isolated places over Madhya Pradesh, Odisha, Chhattisgarh and Telangana and near normal over rest part of the country (Fig. 4).

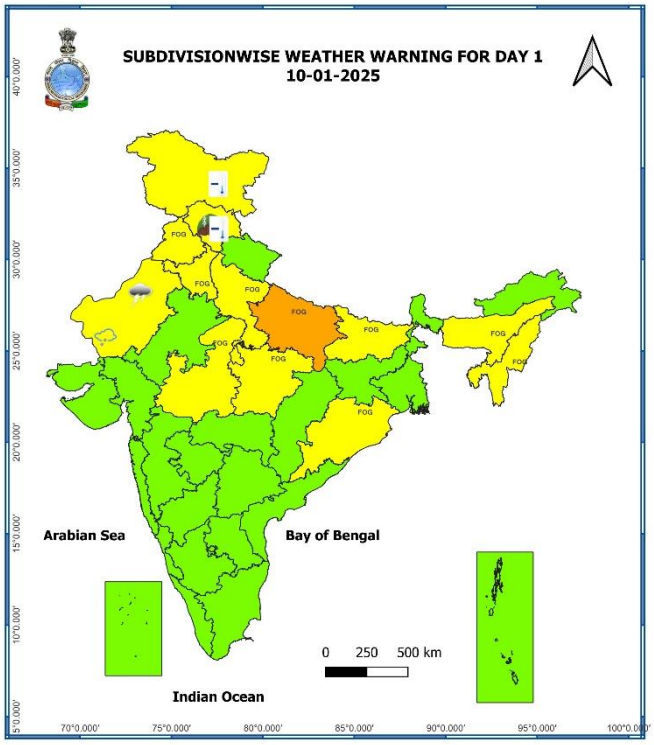
- **Maximum Temperature Departures (as on 09-01-2025**): Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over West Rajasthan; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Konkan & Goa; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana-Chandigarh-Delhi, East Rajasthan, Gujarat state; **above normal (1.6°C to 3.0°C)** at isolated places over Madhya Pradesh. These were **below normal (-1.6°C to -3.0°C)** at many places over Jharkhand, Gangetic West Bengal; at a few places over Bihar, Odisha, Madhya Maharashtra, Andaman & Nicobar Islands; at isolated places over Uttar Pradesh, Vidarbha, Telangana, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and near normal over rest part of the country (Fig. 2). Yesterday, the **highest maximum temperature** of **35.2°C** was reported at **Kannur Airport (Kerala)** & **Karwar (Coastal Karnataka)** over the plains of the country.

Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance** as a Cyclonic Circulation over southwest Iran & adjoining Afghanistan now lies over southeast Iran & neighbourhood between 3.1 and 9.4 km above mean sea level.
- The **cyclonic circulation** over Southeast Bay of Bengal now lies over Southeast Bay of Bengal and adjoining Southwest Bay of Bengal and extends upto 3.1 km above mean sea level.
- An **induced cyclonic circulation** lies over southwest Rajasthan & neighbourhood at 1.5 km above mean sea level.
- Subtropical **westerly Jet Stream** with core winds of the order upto 135 knots at 12.6 km above mean sea level prevailing over Northwest India.
- The **cyclonic circulation** over east Bangladesh & neighbourhood at 1.5 km above mean sea level has become less marked.
- The **cyclonic circulation** over southeast Arabian Sea off Kerala coast at 3.1 km above mean sea level has become less marked.

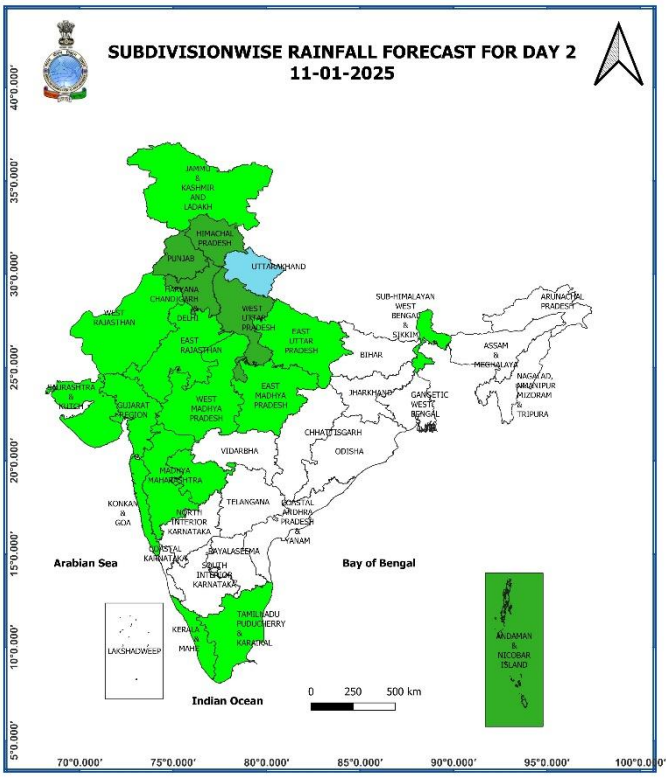
Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 17th January, 2025)

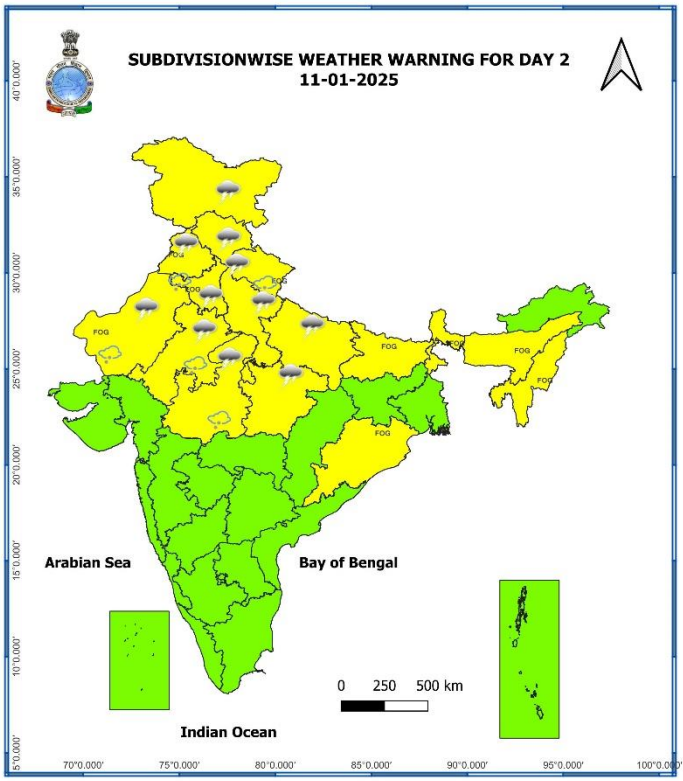




10th January (Day 1):

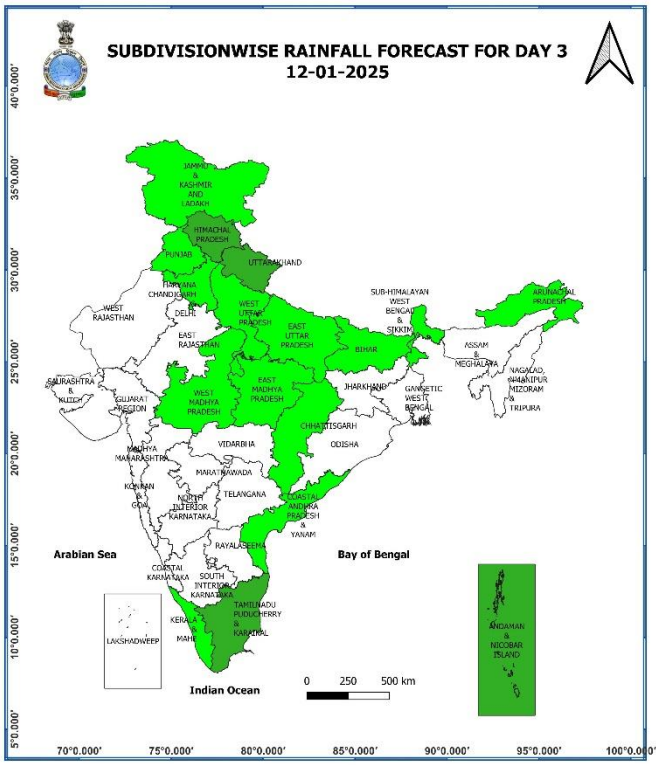
- **Dense to very dense fog conditions** very likely in isolated pockets of East Uttar Pradesh; **Dense fog conditions** in isolated pockets of Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Madhya Pradesh, Bihar, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during night/morning hours.
- **Thunderstorm accompanied with hailstorm & lightning** very likely at isolated places over West Rajasthan.
- **Ground frost conditions** very likely in isolated pockets of Himachal Pradesh.
- **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over parts of southwest Bay of Bengal and adjoining parts of southeast Bay of Bengal. **Squally wind with speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over Comorin area and adjoining gulf of Mannar. Fisherman are advised not to venture in to these areas.

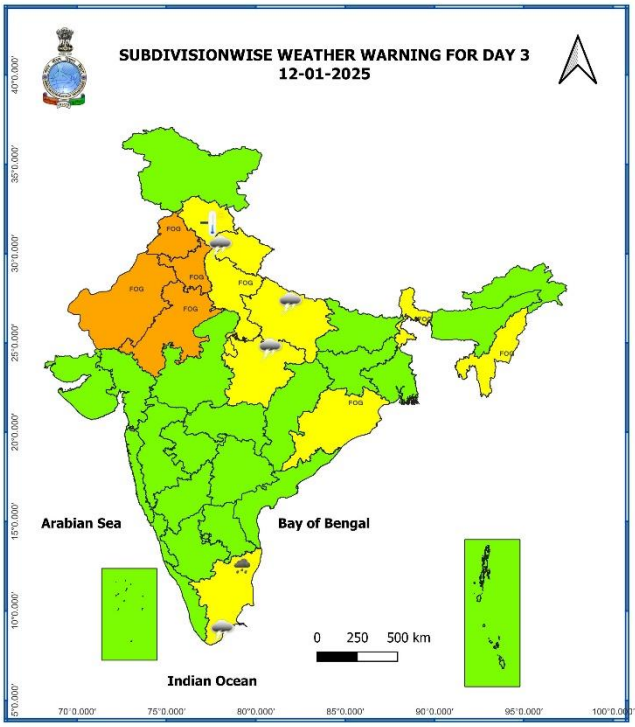




11th January (Day 2):

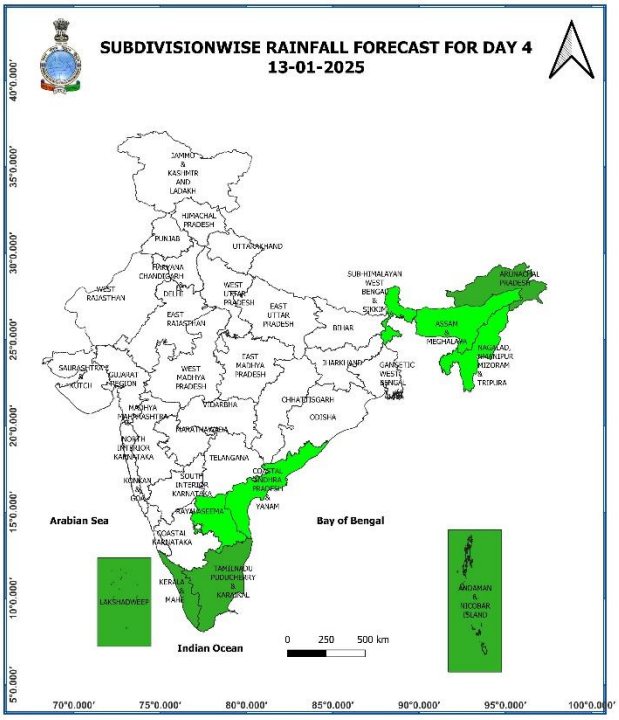
- **Dense fog conditions** very likely in isolated pockets of Punjab, Haryana-Chandigarh-Delhi, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during night/morning hours
- **Thunderstorm accompanied with hailstorm & lightning** very likely at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan and West Madhya Pradesh; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttar Pradesh, and East Madhya Pradesh.
- **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over gulf of Mannar and adjoining Comorin area. Fisherman are advised not to venture in to these areas.

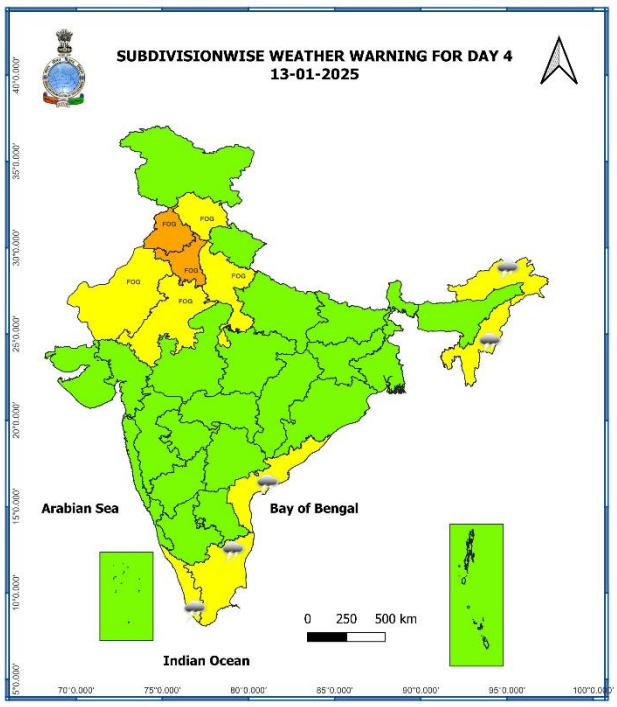




12th January (Day 3):

- **Heavy rainfall (≥7 cm)** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- **Thunderstorm accompanied with lightning** very likely at isolated places over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal.
- **Dense to very dense fog conditions** very likely in some parts of Punjab and Haryana-Chandigarh-Delhi; in isolated pockets of Rajasthan; **Dense fog conditions** in isolated pockets of West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha and Nagaland, Manipur, Mizoram & Tripura during night/morning hours.
- **Cold day conditions** very likely in isolated pockets of Himachal Pradesh.
- **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over Comorin area and adjoining gulf of Mannar. Fisherman are advised not to venture in to these areas.

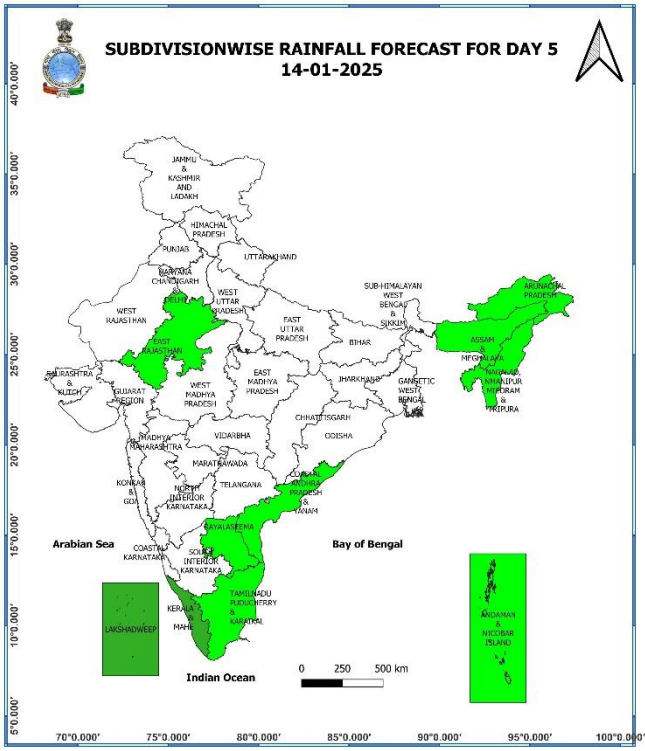


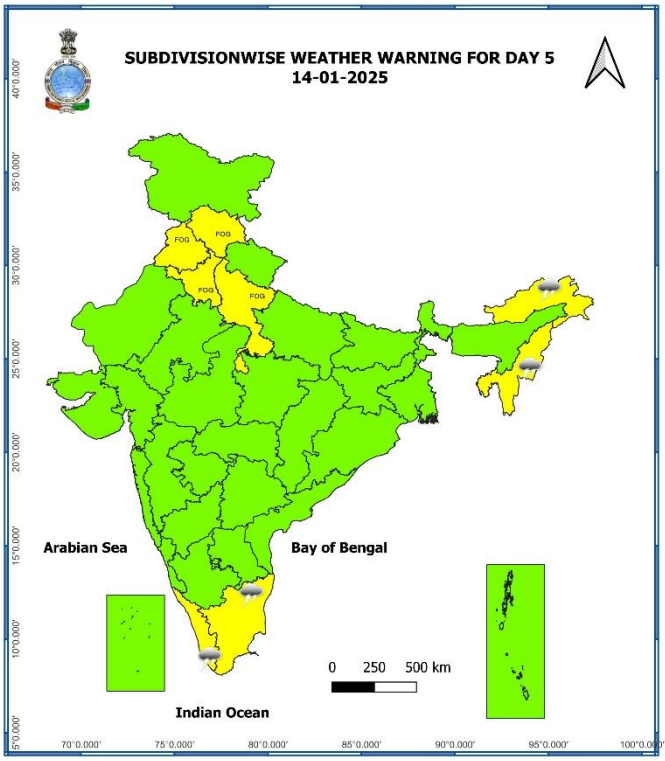


13th January (Day 4):

- **Dense to very dense fog conditions** likely in some parts of Punjab and Haryana-Chandigarh-Delhi; **Dense fog conditions** in isolated pockets of Himachal Pradesh, West Uttar Pradesh and Rajasthan during night/morning hours.

- **Thunderstorm accompanied with lightning** likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

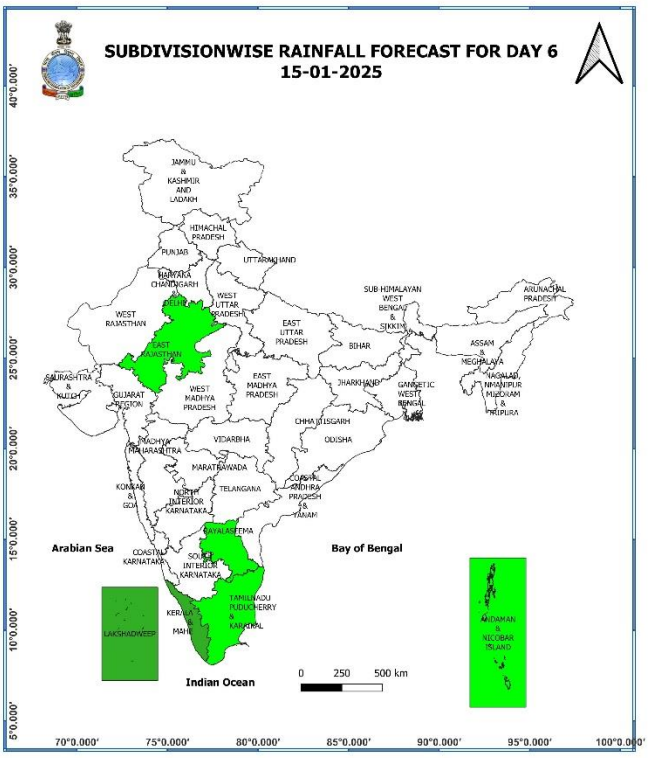


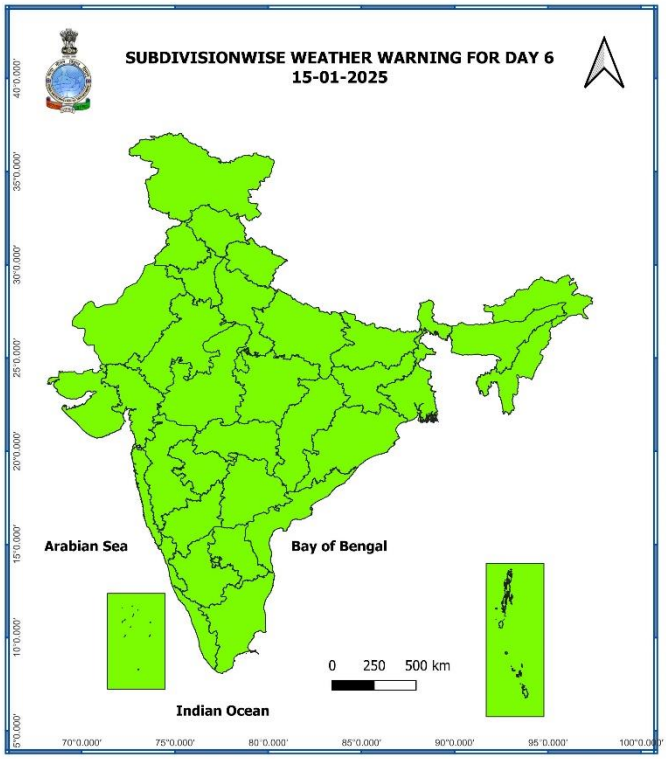


14th January (Day 5):

- **Dense fog conditions** likely in isolated pockets of Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi and West Uttar Pradesh during night/morning hours.

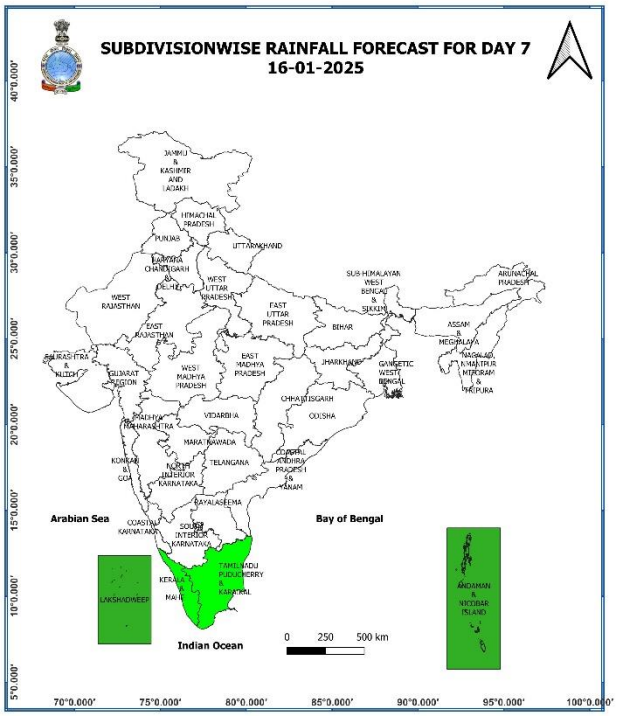
- **Thunderstorm accompanied with lightning** likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

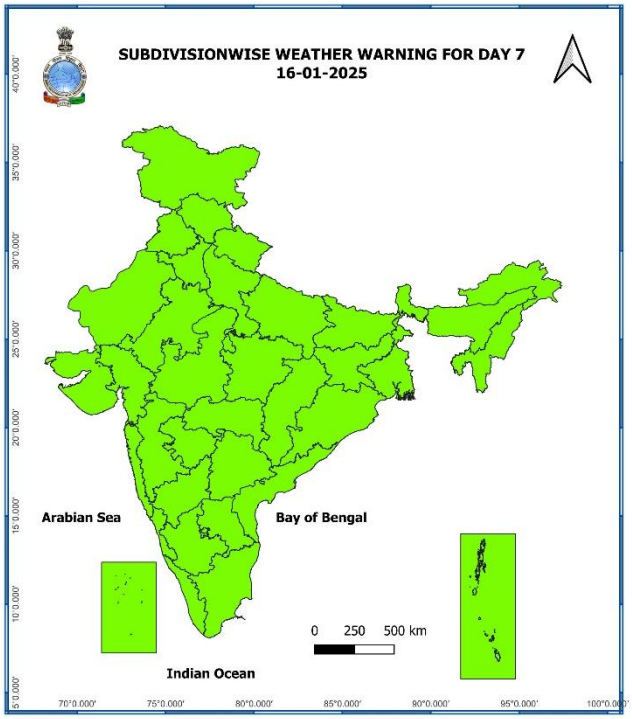




15th January (Day 6):

- **No Weather Warning.**





16th January (Day 7):

❖ **No Weather Warning.**

Weather Outlook for subsequent 3 days (During 17th January– 19th January, 2025)

❖ Isolated rainfall over Tamil Nadu & Kerala and scattered to fairly widespread rainfall over Nicobar Islands.
❖ Isolated rainfall/snowfall over higher reaches of Jammu & Kashmir & Himachal Pradesh.
❖ 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

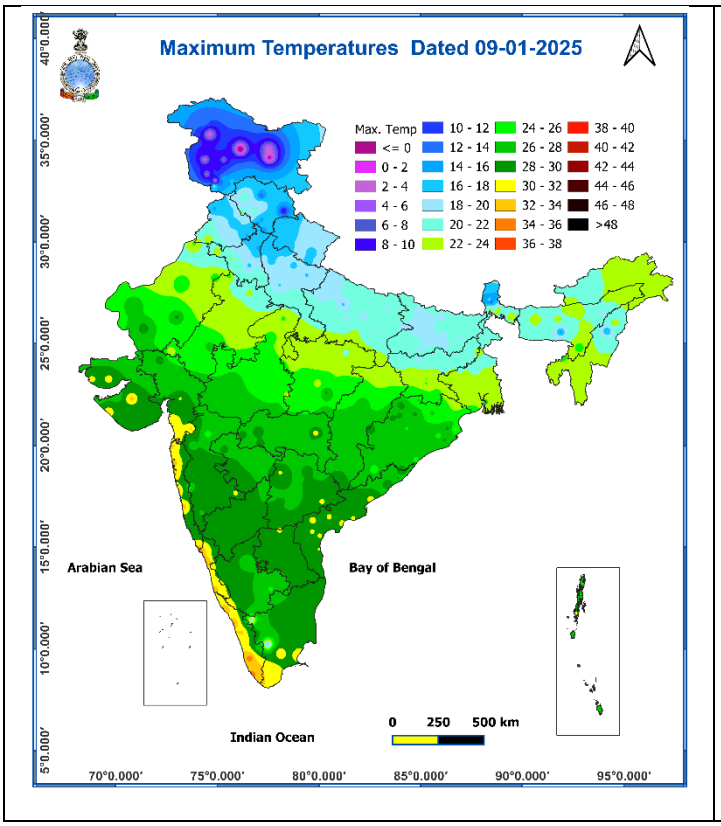


Fig. 2: Departure of Maximum Temperatures

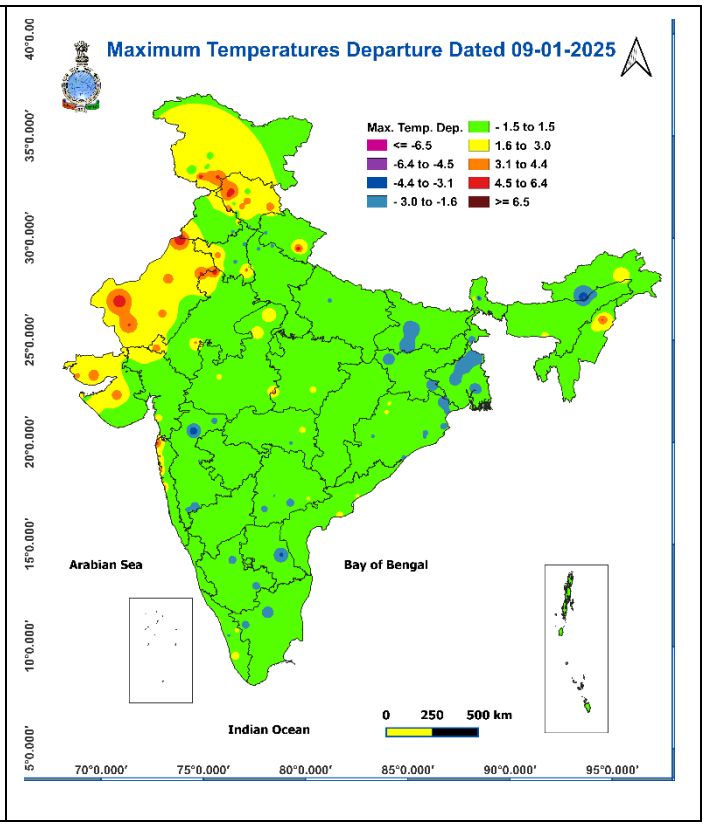


Fig. 3: Minimum Temperatures

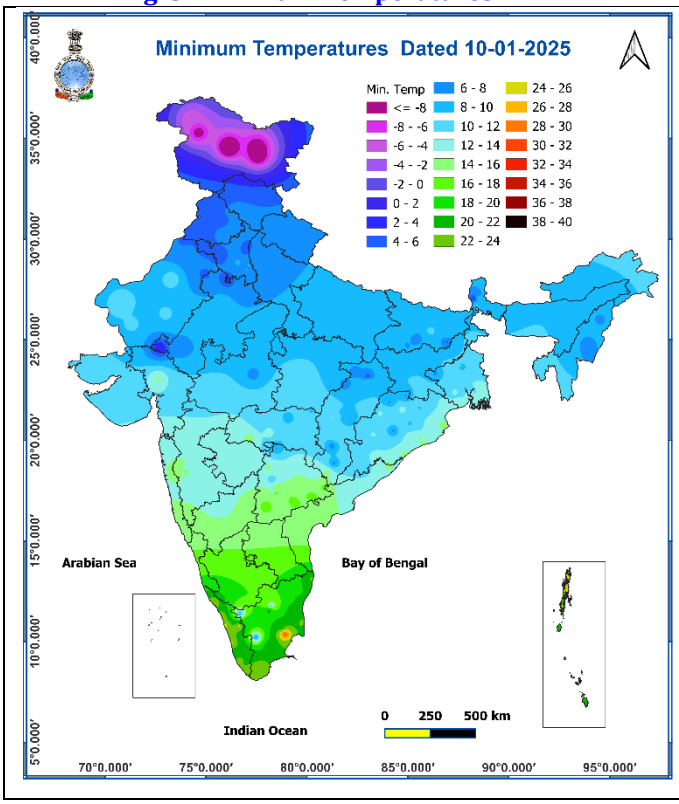
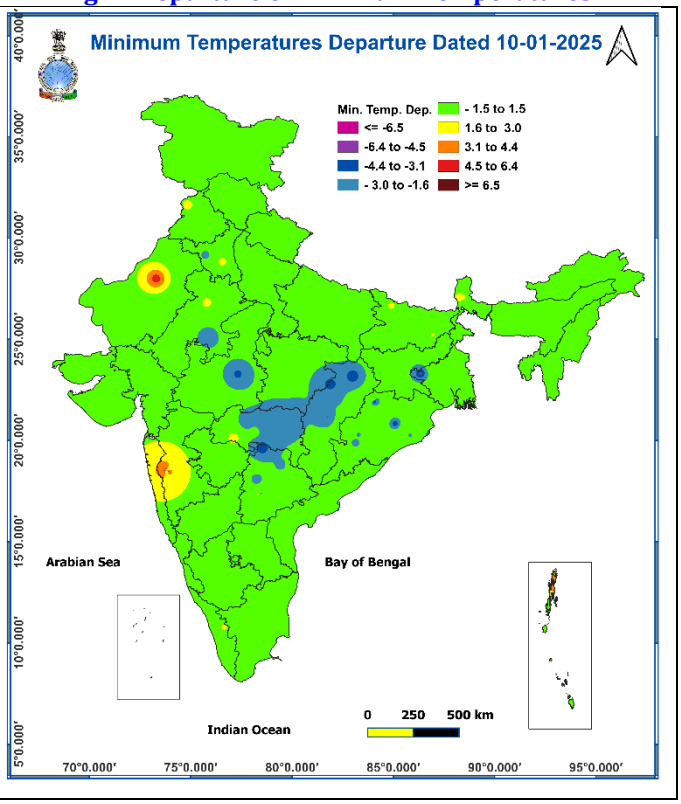
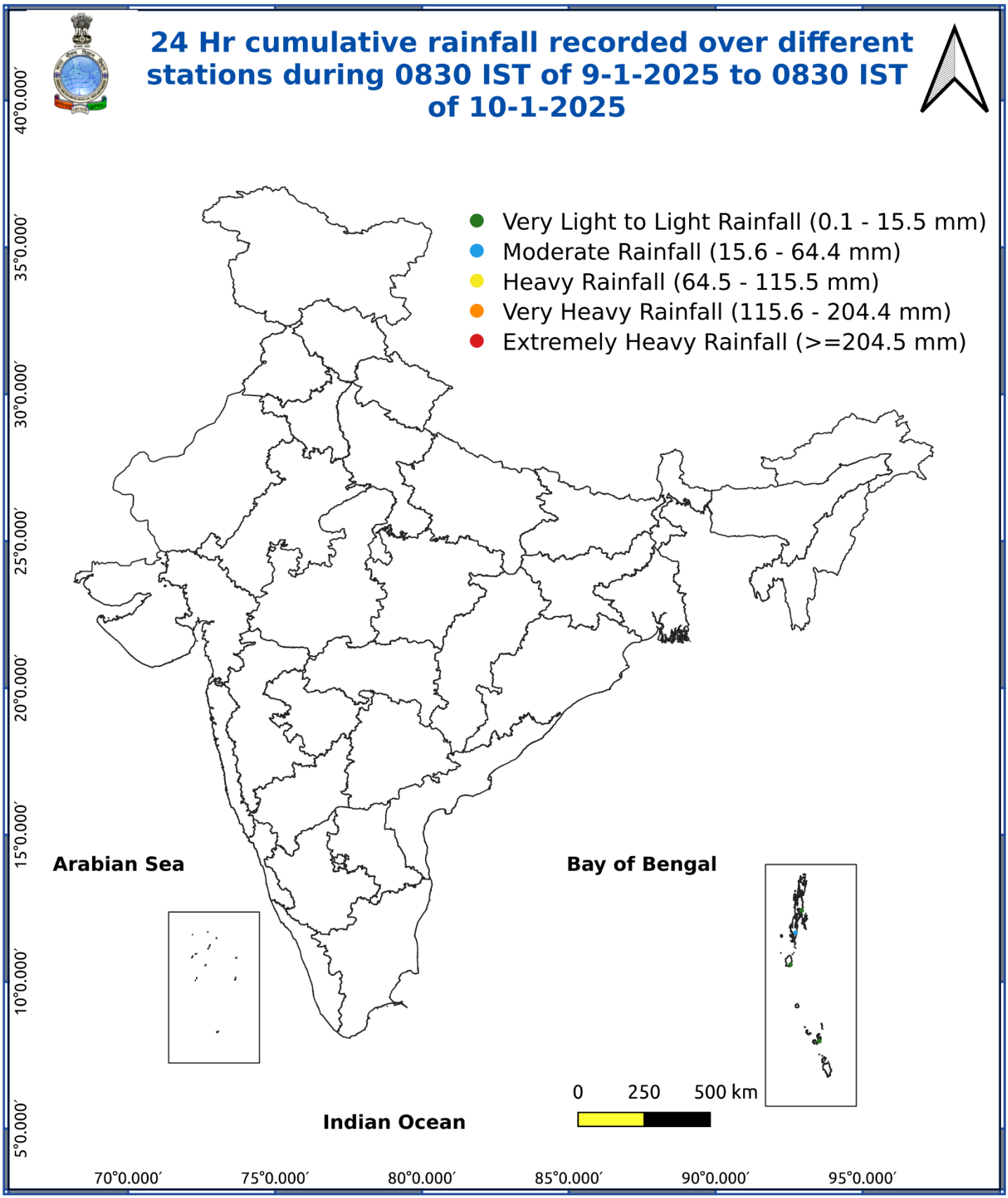


Fig. 4: Departure of Minimum Temperatures



* 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 Hailstorms / Cold Wave/ Ground Frost

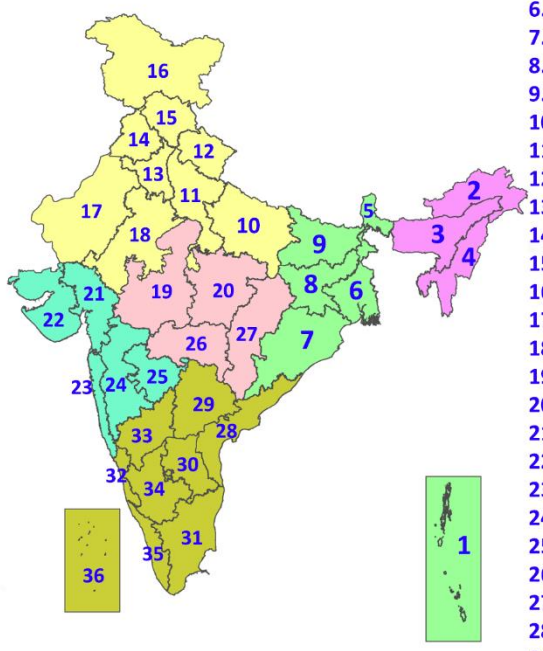
- Use hail nets to protect orchards and vegetable plants in **Himachal Pradesh, Uttarakhand, Punjab, Haryana, Rajasthan, and Madhya Pradesh.**
- In **Jammu & Kashmir** and **Himachal Pradesh,** apply light and frequent irrigation to the standing crops in the evening to protect them from low temperature stress or cold injuries. Use mulching and cover vegetable nurseries and young fruit plants with straw/polythene sheets to maintain optimum soil temperature.
- Provide mechanical support to horticultural crops and staking to vegetables.

Livestock

- 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.
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(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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