

2025-12-24

Time of Issue: 07:53:00 hours IST  
(Morning)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and Warnings

- Isolated light/moderate rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 27<sup>th</sup> -29<sup>th</sup> and over Himachal Pradesh & Uttarakhand on 28<sup>th</sup> & 29<sup>th</sup> December.
- **Isolated Thunderstorm and lightning** likely to prevail over Andaman & Nicobar Islands on 27<sup>th</sup> & 28<sup>th</sup> December.

#### Forecast of minimum temperatures:

- Gradual fall in minimum temperature by 2-3°C very likely over Northwest, Maharashtra and Central India for next 24 hours and no significant change thereafter.
- Gradual fall in minimum temperature by 2-3°C very likely over East India for subsequent 2 days and no significant change thereafter.
- Gradual fall in minimum temperature by 2-3°C very likely over Gujarat state for next 2 days and no significant change thereafter.
- No significant change in minimum temperature over rest parts of the country during next 7 days.

#### Dense Fog & Cold wave Warnings:

- **Dense to very dense fog conditions** during night/morning hours very likely over isolated / few places over Uttar Pradesh, Haryana, Chandigarh and Punjab till 29<sup>th</sup>; over Uttarakhand till 28<sup>th</sup>; over Madhya Pradesh till 25<sup>th</sup> with **Dense fog conditions** during night/morning hours very likely at some pockets over Bihar till 25<sup>th</sup>; in isolated pockets of Jammu division, Himachal Pradesh and Odisha till 28<sup>th</sup>; Sub-Himalayan West Bengal and Jharkhand till 25<sup>th</sup>; northeast India till 26<sup>th</sup>; over Bihar during 26<sup>th</sup> -28<sup>th</sup> December.
- **Cold day conditions** very likely in isolated pockets of Bihar during 24<sup>th</sup>-28<sup>th</sup> December.

\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

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### Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at isolated places** over Jammu & Kashmir and Ladakh; **Dry** over rest of the country.
- ❖ **Fog Condition Observed (at 0530 hours of today): Dense fog conditions:** at a few places over East Uttar Pradesh, West Uttar Pradesh, at isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha, Bihar and Haryana Chandigarh & Delhi; **Moderate fog conditions:** at isolated places over Sub-himalayan West Bengal & Sikkim, Assam & Meghalaya and Chhattisgarh.
- ❖ **Visibility reported (at 0530 hours of today): West Uttar Pradesh:** Bareilly (dist Bareilly) 50.0, Agra (IAF) (dist Agra) 200.0; **Bihar:** Gaya (dist Gaya) 50.0, Bhagalpur (dist Bhagalpur) 200.0; **Nagaland, Manipur, Mizoram & Tripura:** Agartala AP (dist West Tripura) 50.0; **Odisha:** Jharsuguda (dist Jharsuguda) 50.0; **Haryana Chandigarh & Delhi:** New Delhi (palam) AP (dist South West Delhi), Chandigarh (dist Chandigarh) 50.0, New Delhi (safdarjung) (dist South West Delhi) 200.0; **East Uttar Pradesh:** Bahraich (dist Bahraich), Allahabad (dist Prayagraj), Kanpur Airforce (dist Kanpur Nagar) 50.0 Each, Lucknow (amausi) AP (dist Lucknow), Sultanpur-obs2 (dist Sultanpur), Azamgarh-obs (dist Azamgarh) 200.0 Each; **Sub-himalayan West Bengal & Sikkim:** Malda (dist Malda), Bagdogra AP (dist Darjeeling) 200.0 Each; **Assam & Meghalaya:** Dhubri (dist Dhubri) 200.0; **Chhattisgarh:** Ambikapur (dist Surguja) 200.0.
- ❖ **Minimum Temperature Departures (as on 23-12-2025): markedly below normal (<-5.0°C)** at a isolated places over Interior Karnataka; **appreciably below normal (-5.0°C to -3.1°C)** at few places over Telangana; at isolated places over West Madhya Pradesh, Madhya Maharashtra, Odisha, Tamil Nadu, Puducherry & Karaikal and **below normal (-1.6°C to -3.0°C)** at a few places over Kerala & Mahe; at isolated places over East Madhya Pradesh, Chhattisgarh, Bihar, Gangetic West Bengal, Marathwada and Konkan & Goa. **The lowest minimum temperature of 5.0°C was reported at Gurdaspur (PUNJAB) over the Plains of India.**
- ❖ **Maximum Temperature Departures (as on 23-12-2025): markedly below normal (<-5.0°C)** at a few places over east Uttar Pradesh and Bihar; **below normal(-1.6°C to -3.0°C)** at isolated places over Gangetic West Bengal, Jammu-Kashmir, Jharkhand, Odisha, Karnataka, Madhya Maharashtra and Tamil Nadu. **The highest maximum temperature of 35.0°C was reported at PUNALUR (KERALA).**

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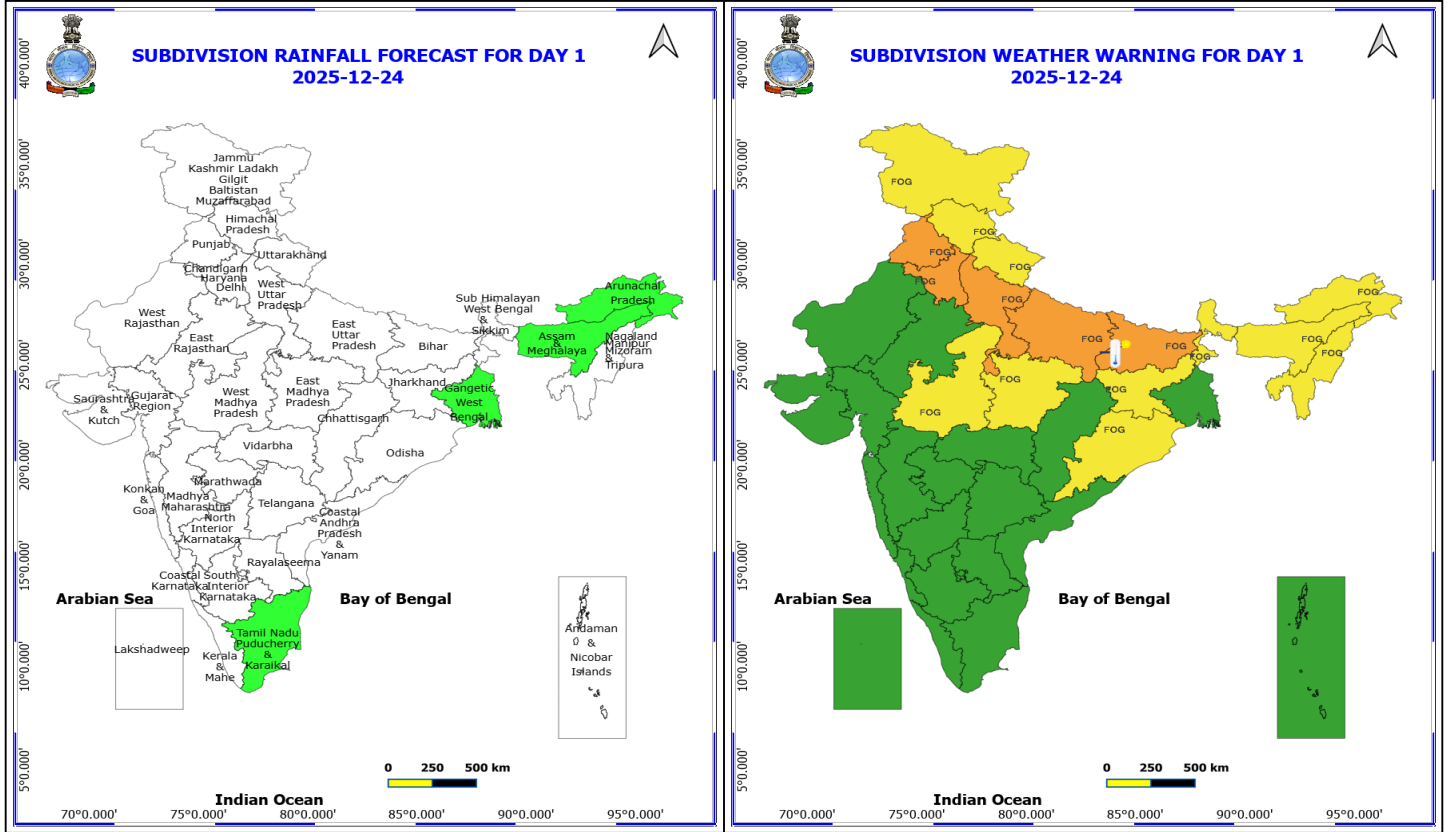
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### Meteorological Analysis (Based on 0530 hours IST)

- The **Western Disturbance** as a trough in middle and upper tropospheric levels with its axis at 5.8 km above mean sea level roughly along Long. 74°E to the north of Lat. 32°N persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 125 knots at 12.6 km above mean sea level continues to prevail over North India.
- The **upper air cyclonic circulation** over south Tamil Nadu and neighbourhood lay over south east Arabian sea adjoining south Kerala and extends upto 1.5 km above mean sea level .
- A **fresh feeble Western Disturbance** is likely to affect Western Himalayan Region from 27<sup>th</sup> December, 2025.

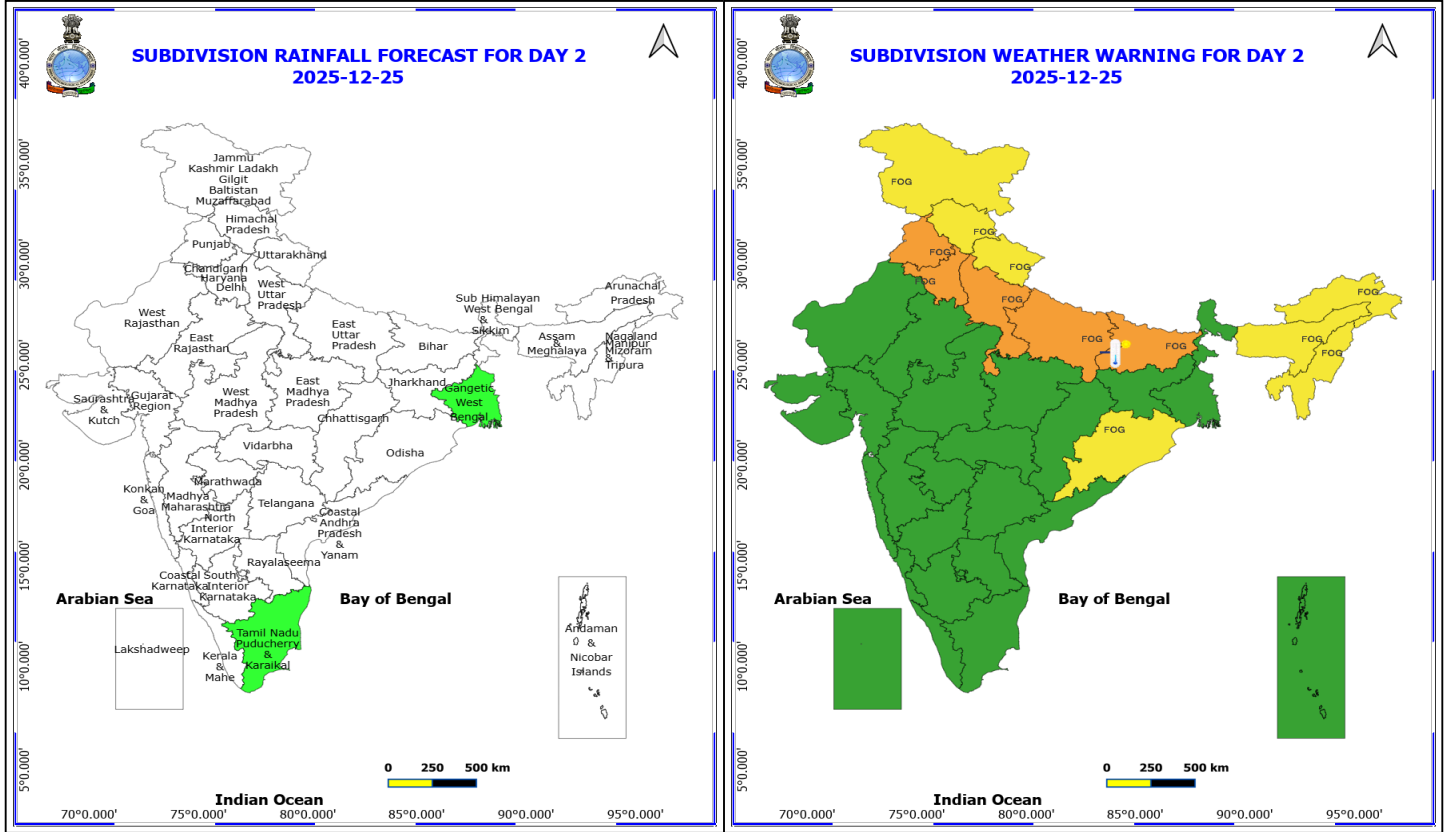
### Weather Outlook for subsequent 3 days

- Isolated to Scattered rainfall activity over Western Himalayana Region, Tamil Nadu, Kerala, Karnataka and Islands.



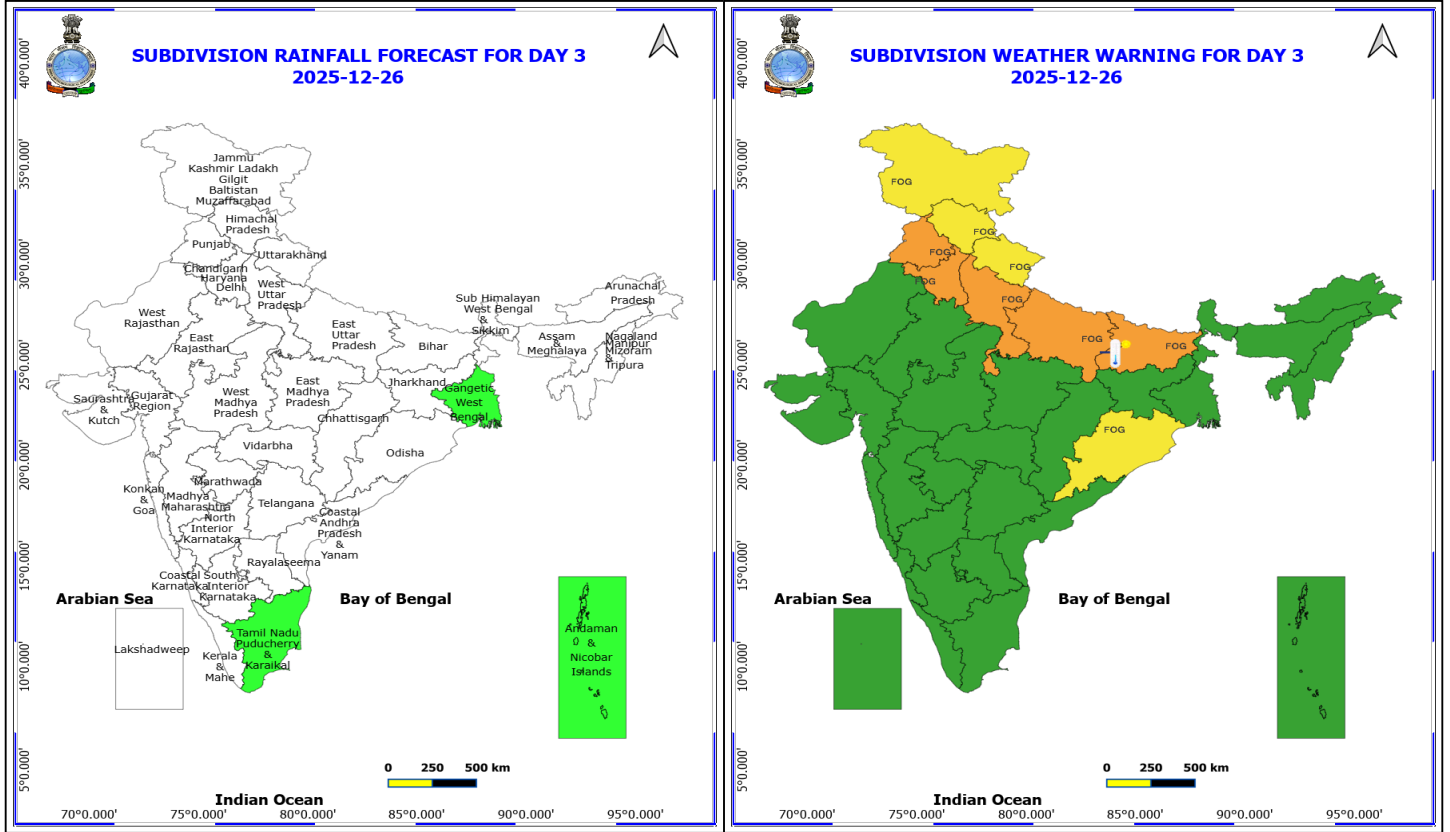
**24 December (Day 1)**

- ❖ **Cold Day conditions** very likely at isolated places over Bihar.
- ❖ **Dense Fog** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.
- ❖ **Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia coast, adjoining sea area, over Comorin area & adjoining, some parts of Gulf of Mannar.



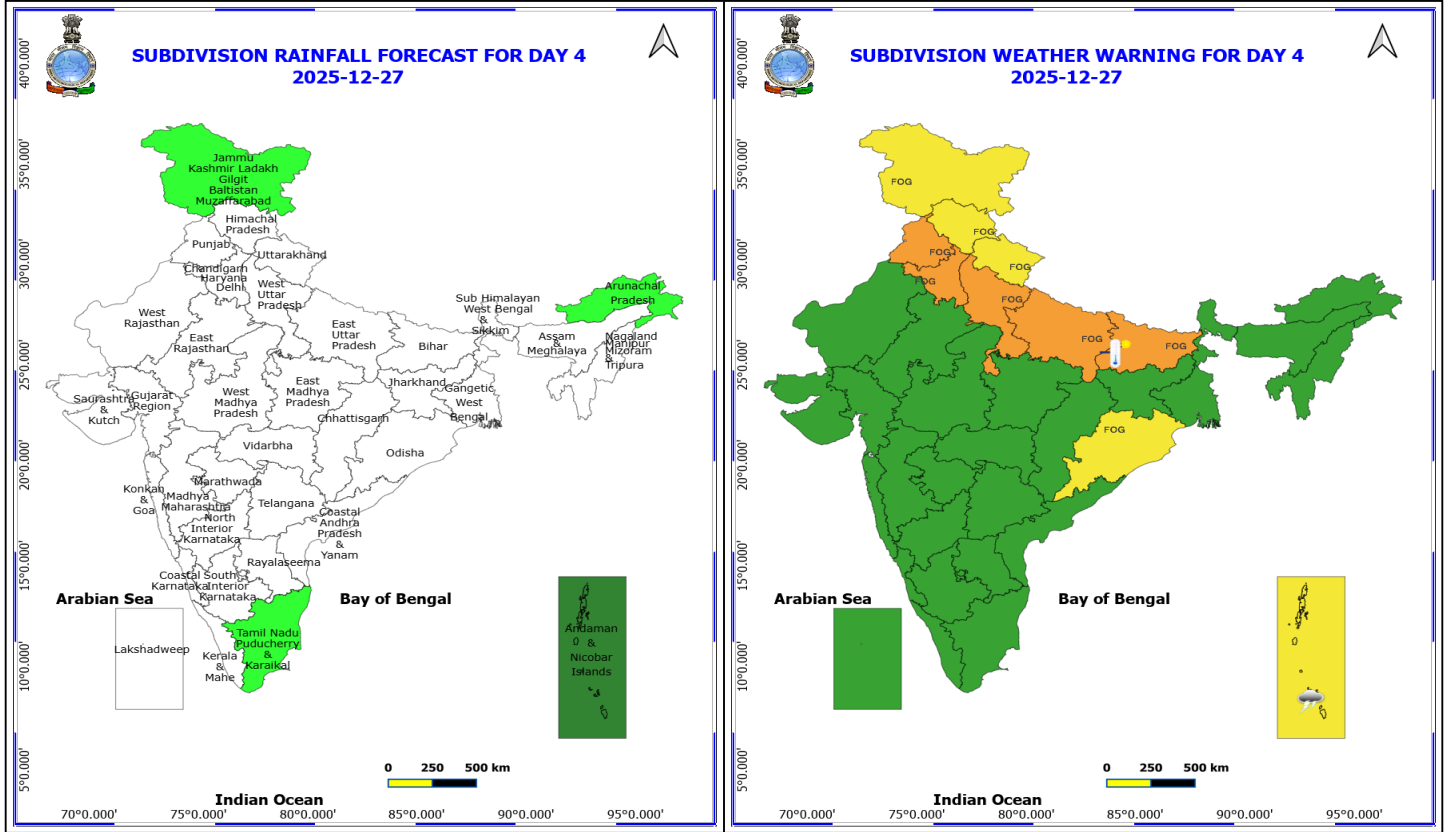
**25 December (Day 2)**

- ❖ **Cold Day conditions** very likely at isolated places over Bihar.
- ❖ **Dense Fog** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram and Tripura, Odisha and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.
- ❖ Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over Comorin area & adjoining some parts of Gulf of Mannar.



**26 December (Day 3)**

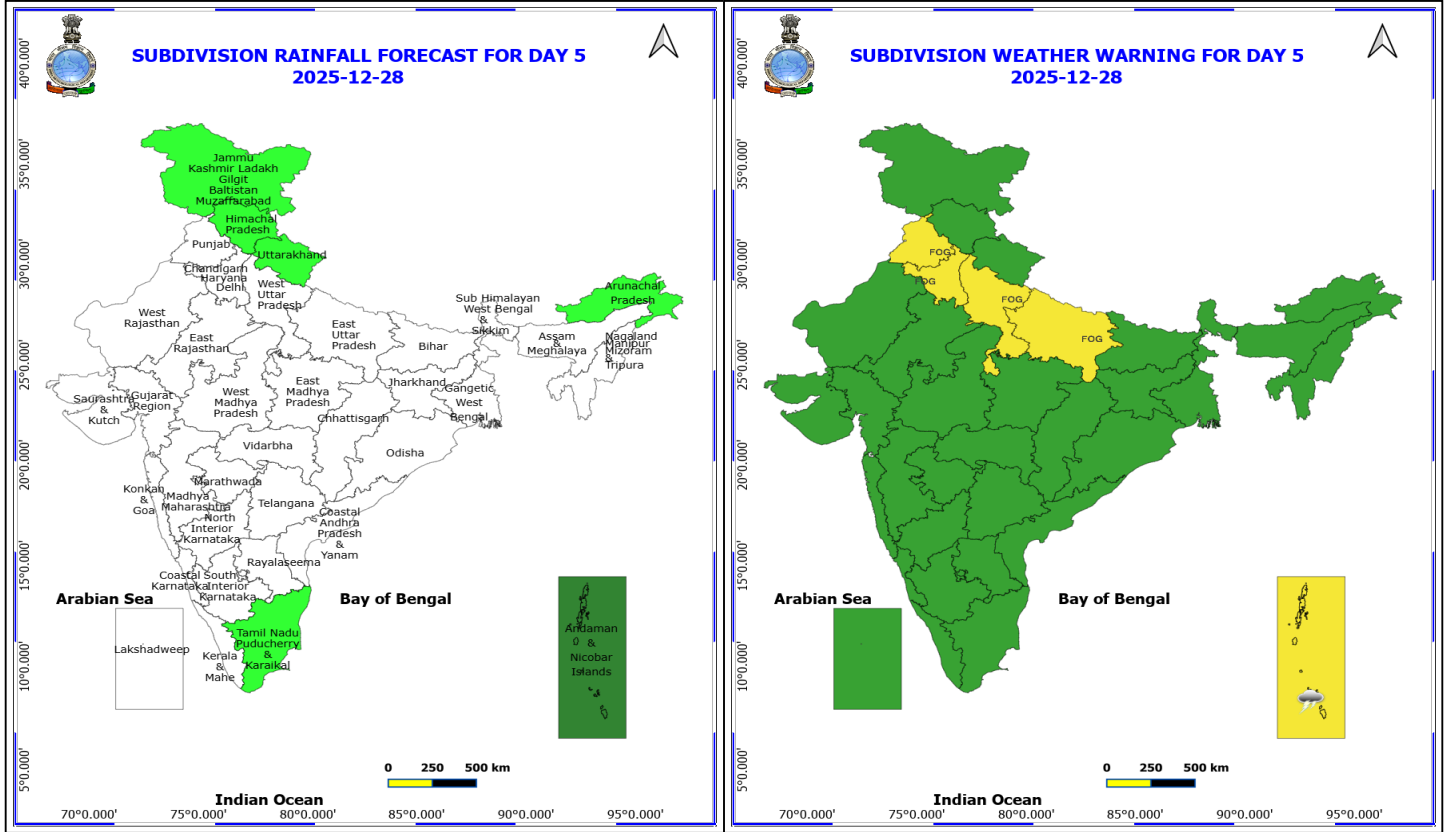
- ❖ **Cold Day conditions** very likely at isolated places over Bihar.
  - ❖ **Dense Fog** very likely at isolated places over Bihar, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha and Uttarakhand.
  - ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.
- No Fishermen Warning**



**27 December (Day 4)**

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold Day conditions** likely at isolated places over Bihar.
- ❖ **Dense Fog** likely at isolated places over Bihar, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha and Uttarakhand.
- ❖ **Dense to Very Dense Fog** likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.

**No Fishermen Warning**

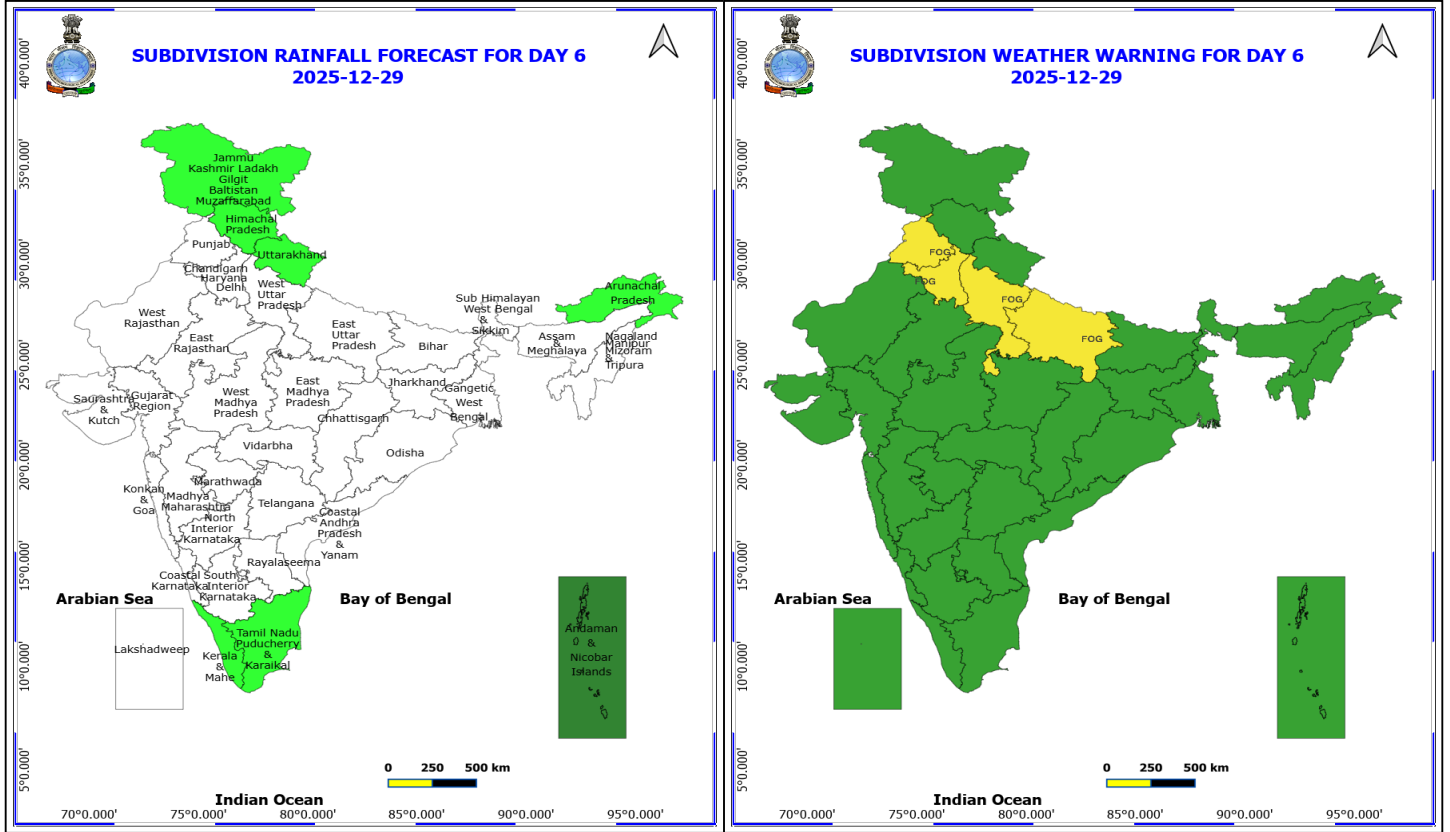


**28 December (Day 5)**

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

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

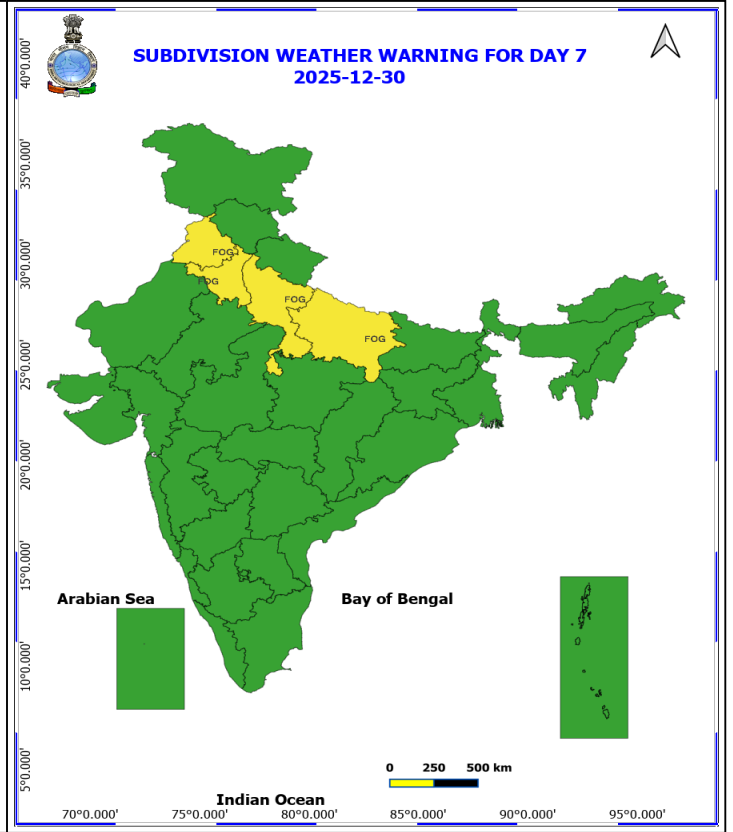
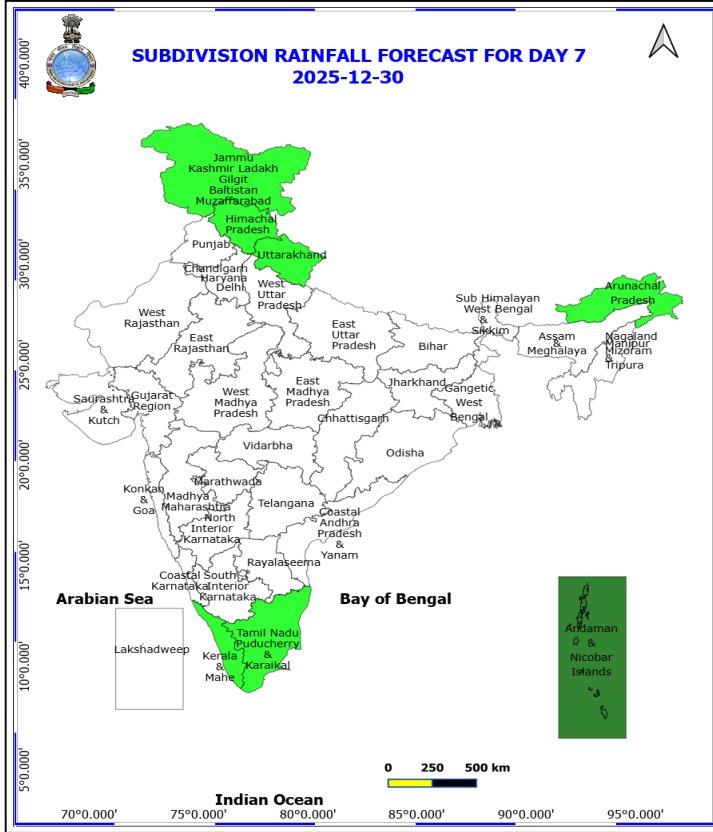
**No Fishermen Warning**



**29 December (Day 6)**

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

**No Fishermen Warning**



**30 December (Day 7)**

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

**No Fishermen Warning**



**Table-1**

**7 Days Rainfall Forecast**

S.No.	Subdivision	24- Dec	25- Dec	26- Dec	27- Dec	28- Dec	29- Dec	30- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	ISOL	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	ISOL	DRY	DRY	ISOL	ISOL	ISOL	ISOL
3	ASSAM & MEHGHALAYA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	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	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY	DRY	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	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
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	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
36	LAKSHDWEEP	DRY	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 2025-12-23

Fig. 2: Departure of Maximum Temp. Dated 2025-12-23

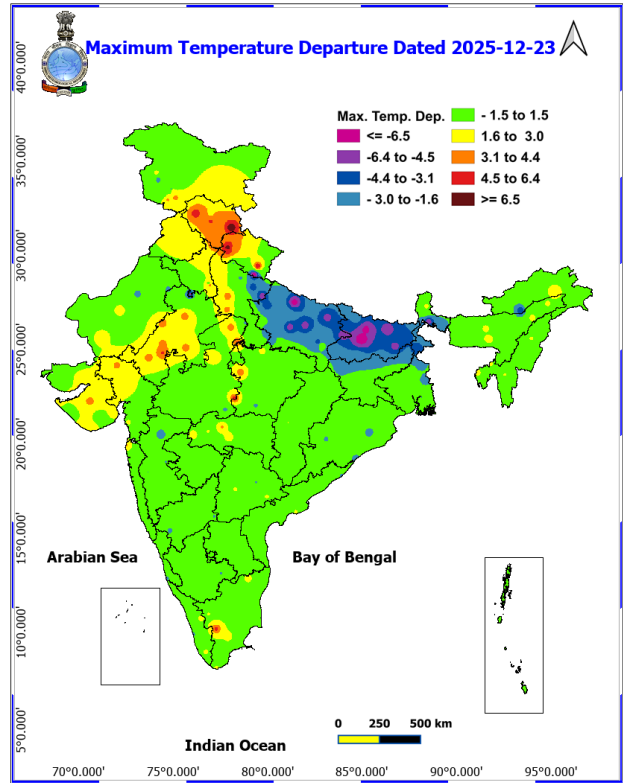
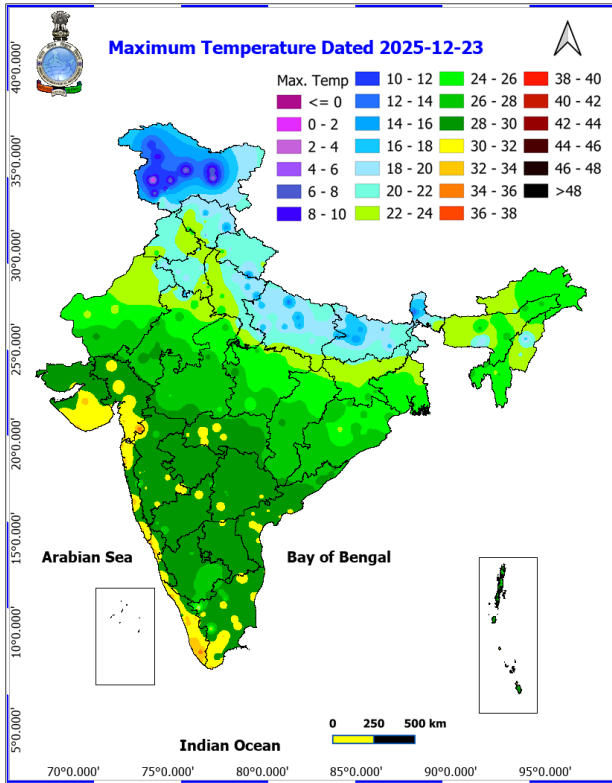
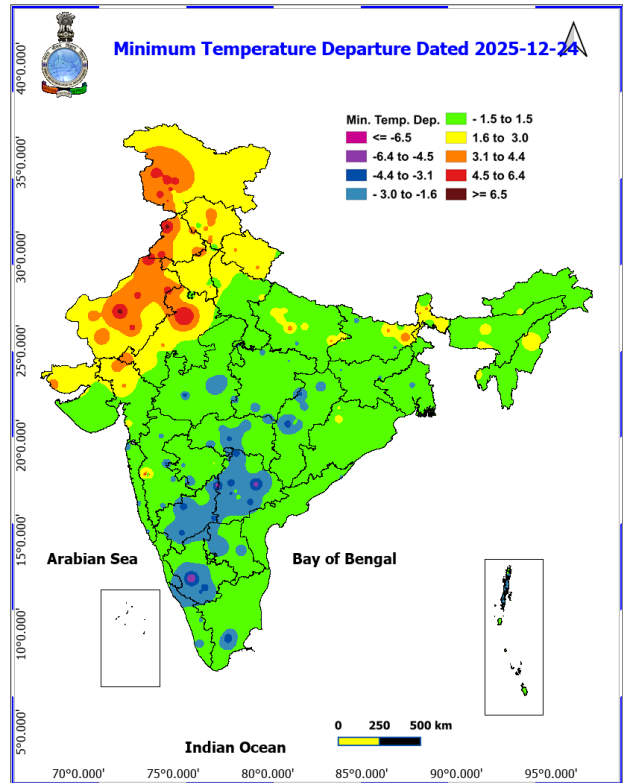
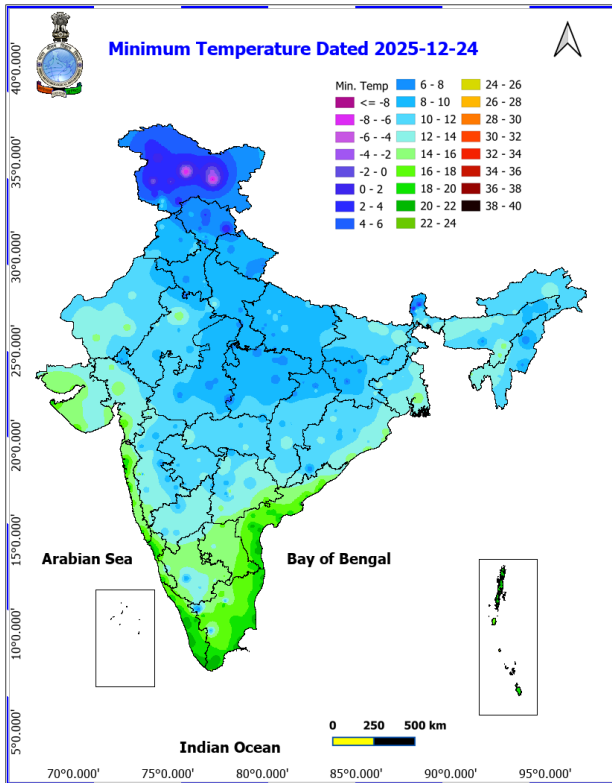
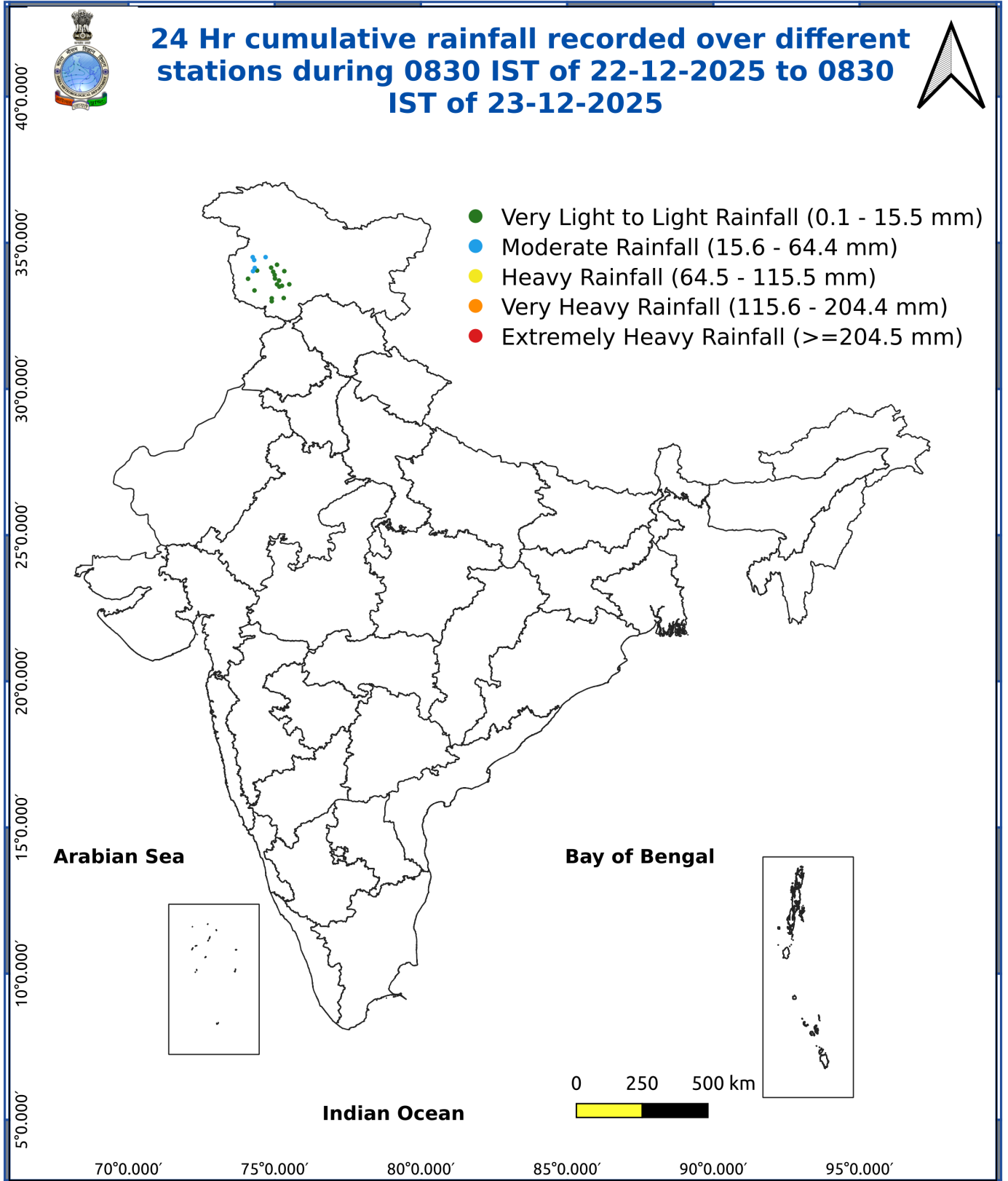


Fig. 3: Minimum Temperatures Dated 2025-12-23

Fig. 4: Departure of Minimum Temp. Dated 2025-12-23





## Impact and Actions

**Impact expected due to dense/very dense fog in the night/morning hours:** very likely over isolated / few places over Uttar Pradesh, Haryana, Chandigarh and Punjab till 29<sup>th</sup>; over Uttarakhand till 28<sup>th</sup>; over Madhya Pradesh till 25<sup>th</sup> with **Dense fog conditions** during night/morning hours very likely at some pockets over Bihar, Sub-Himalayan West Bengal & Sikkim and Jharkhand till 25<sup>th</sup>; in isolated pockets of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Odisha till 28<sup>th</sup>; northeast India till 26<sup>th</sup>; over Bihar during 26<sup>th</sup> -28<sup>th</sup> December.

### ❖ 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 conditions** very likely in isolated pockets of Bihar during 24<sup>th</sup>-28<sup>th</sup> December.

- 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:

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- 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 various parts of the country

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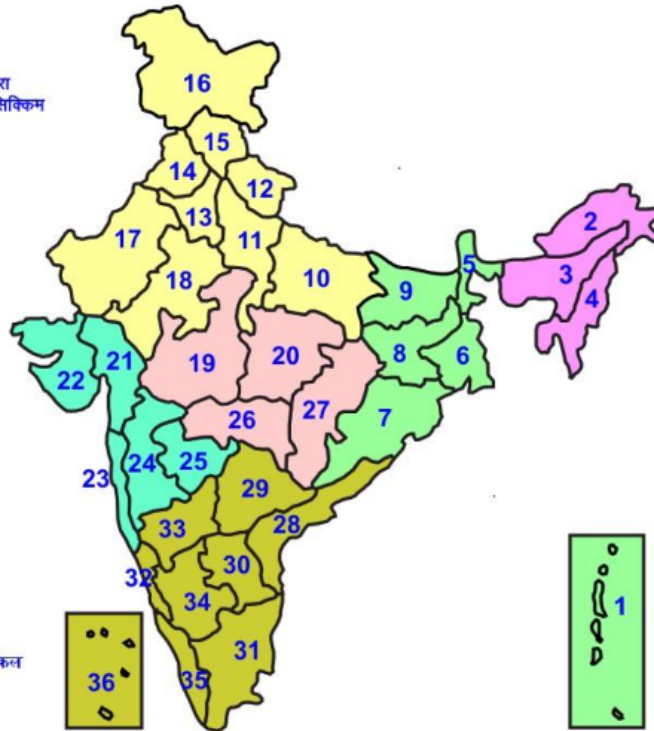
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## LEGENDS

- 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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .  
Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$



When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .



When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$   
Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  & actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$



When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions  
Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$



Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres  
Dense Fog: when the visibility between 50- 200 metres  
Very Dense Fog: when the visibility  $< 50$  metres



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



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



Ice deposits on ground

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



A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph  
Severe: Wind speed 62-87 kmph  
Very Severe: Wind speed  $> 87$  kmph



Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre  
High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre  
Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre



Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)  
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)  
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)  
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)  
Super Cyclone Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

Forecast and warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit <https://mausam.imd.gov.in> or contact 011-2434-4599

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