

2025-12-17

Time of Issue: 20:04:00 hours IST  
(Night)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and Warnings

- Light rainfall/snowfall at few/isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18<sup>th</sup> -23<sup>rd</sup> and over Himachal Pradesh, Uttarakhand on 20<sup>th</sup> & 21<sup>st</sup> December.
- Light rainfall at isolated places over Punjab on 20<sup>th</sup> & 21<sup>st</sup> and West Rajasthan on 21<sup>st</sup> December.
- **Thunderstorm and lightning** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep on 17<sup>th</sup> December; **with gusty winds with speed reaching upto 30-40 kmph** very likely at isolated places over Andaman & Nicobar Islands on 17<sup>th</sup> December.

#### Forecast of minimum temperatures:

- No significant change in minimum temperature very likely over Northwest India during next 2 days and gradual rise by 2°C thereafter during subsequent 2 days and no significant change thereafter.
- No significant change in minimum temperature very likely over Maharashtra during next 3 days and gradual rise by 2-3°C thereafter during subsequent 4 days.
- Gradual Rise in minimum temperatures by 2-3°C likely over Gujarat during next 3 days and no significant change thereafter.
- No significant change in minimum temperature over remaining parts of the country during next 7 days.

#### Dense Fog & Cold wave Warnings:

- **Dense to very dense fog conditions** very likely to prevail during early hours/morning hours at a few places over Uttar Pradesh during 18<sup>th</sup>-20<sup>th</sup> and at isolated places on 21<sup>st</sup> December.
- **Dense to very dense fog conditions** very likely to prevail during early hours/morning hours at a few places over Punjab, Haryana, Chandigarh during 18<sup>th</sup>-20<sup>th</sup>; at isolated pockets over the same region on 21<sup>st</sup> & 22<sup>nd</sup> December and at isolated pockets over Uttarakhand during 18<sup>th</sup>-21<sup>st</sup> December.
- **Dense fog conditions** very likely to prevail during early hours/morning hours in isolated pockets of northeast India during 18<sup>th</sup>-22<sup>nd</sup>, Himachal Pradesh, Bihar, Jharkhand during 18<sup>th</sup>-20<sup>th</sup> and over Odisha on 18<sup>th</sup> & 19<sup>th</sup> December.
- **Cold wave conditions** very likely to prevailed at isolated places over West Madhya Pradesh and Uttarakhand on 18<sup>th</sup> & 19<sup>th</sup> December.
- **Cold Day conditions** very likely over isolated places over Uttar Pradesh on 18<sup>th</sup> & 19<sup>th</sup> December.

#### Fisherman Warning:

- Fishermen are advised not to venture into the following areas during 17<sup>th</sup> December to 22<sup>nd</sup> December:
- **Bay of Bengal:** Over Gulf of Mannar and adjoining Comorin area during 16<sup>th</sup> to 20<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:

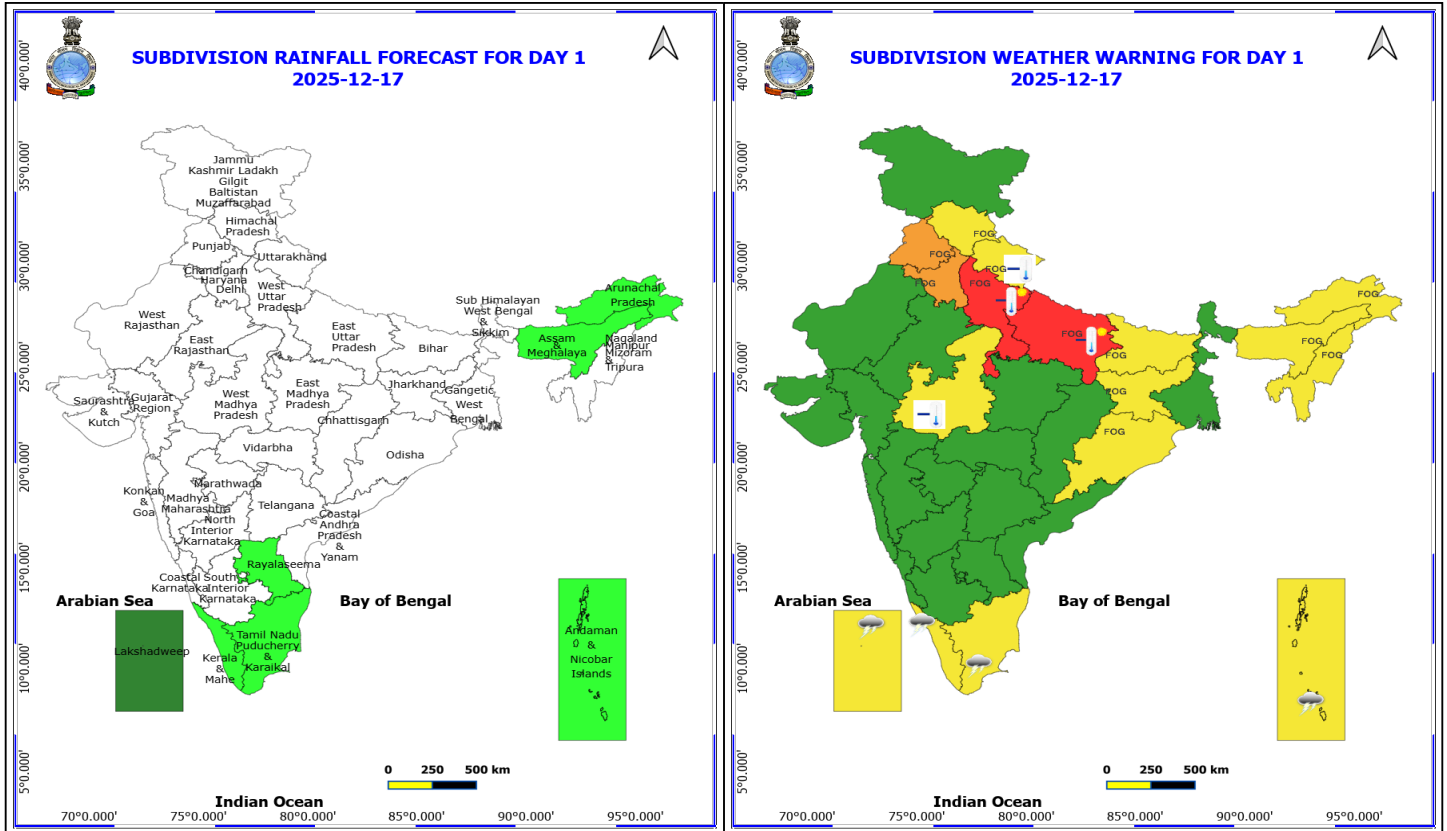
- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): **at isolated places** over Tamilnadu Puducherry & Karaikal, Kerala & Mahe and Lakshadweep ; **Dry** over rest of the country.
- ❖ **Fog Condition Observed (at 1730 hours of today): Moderate fog conditions:** at isolated places over East Uttar Pradesh **Shallow fog conditions:** at isolated places over West Uttar Pradesh.
- ❖ **Visibility reported (at 1730 hours of today): West Uttar Pradesh:** Bulandshahr (dist Bulandshahr) , Bareilly (dist Bareilly), Moradabad (dist Moradabad) 500.0 Each; **East Uttar Pradesh:** Ballia-obs2 (dist Ballia), Barabanki (dist Barabanki) 200.0 Each, Lucknow (amausi) AP (dist Lucknow), Fursatganj (dist Amethi), Hardoi (dist Hardoi), Sultanpur-obs2 (dist Sultanpur) 500.0 Each;.
- ❖ **Minimum Temperature Departures (as on 17-12-2025): Minimum Temperatures** were **markedly below normal (less than equal -5.1°C)** at isolated places over West Madhya Pradesh; **appreciably below normal (-5.0°C to -3.1°C)** at isolated places over Odisha, East Madhya Pradesh, South Interior Karnataka, Tamil Nadu ; **below normal (-1.6°C to -3.0°C)** at many places over Vidarbha, Telangana, North Interior Karnataka; at isolated places over East Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathawada , East Rajasthan, Gujarat State. **The lowest minimum temperature of 3.7 Nagaur (West Rajasthan) over the plains of India.**
- ❖ **Maximum Temperature Departures (as on 17-12-2025):** Maximum temperatures are **markedly below normal (less than equal -5.1°C)** at a few places over Uttar Pradesh. **The highest maximum temperature** of 36.0°C is reported at KARWAR (KARNATAKA).

**Meteorological Analysis (Based on 1730 hours IST)**

- A **Western Disturbance** seen as a cyclonic circulation over Iran & neighbourhood at 3.1 km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order upto 105 knots at 12.6 km above mean sea level prevails over North India.

**Weather Outlook for subsequent 3 days**

- Isolated to Scattered rainfall activity over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Hiamchal Pradesh, Kerala, Tamil Nadu and Islands.



## 17 December (Day 1)

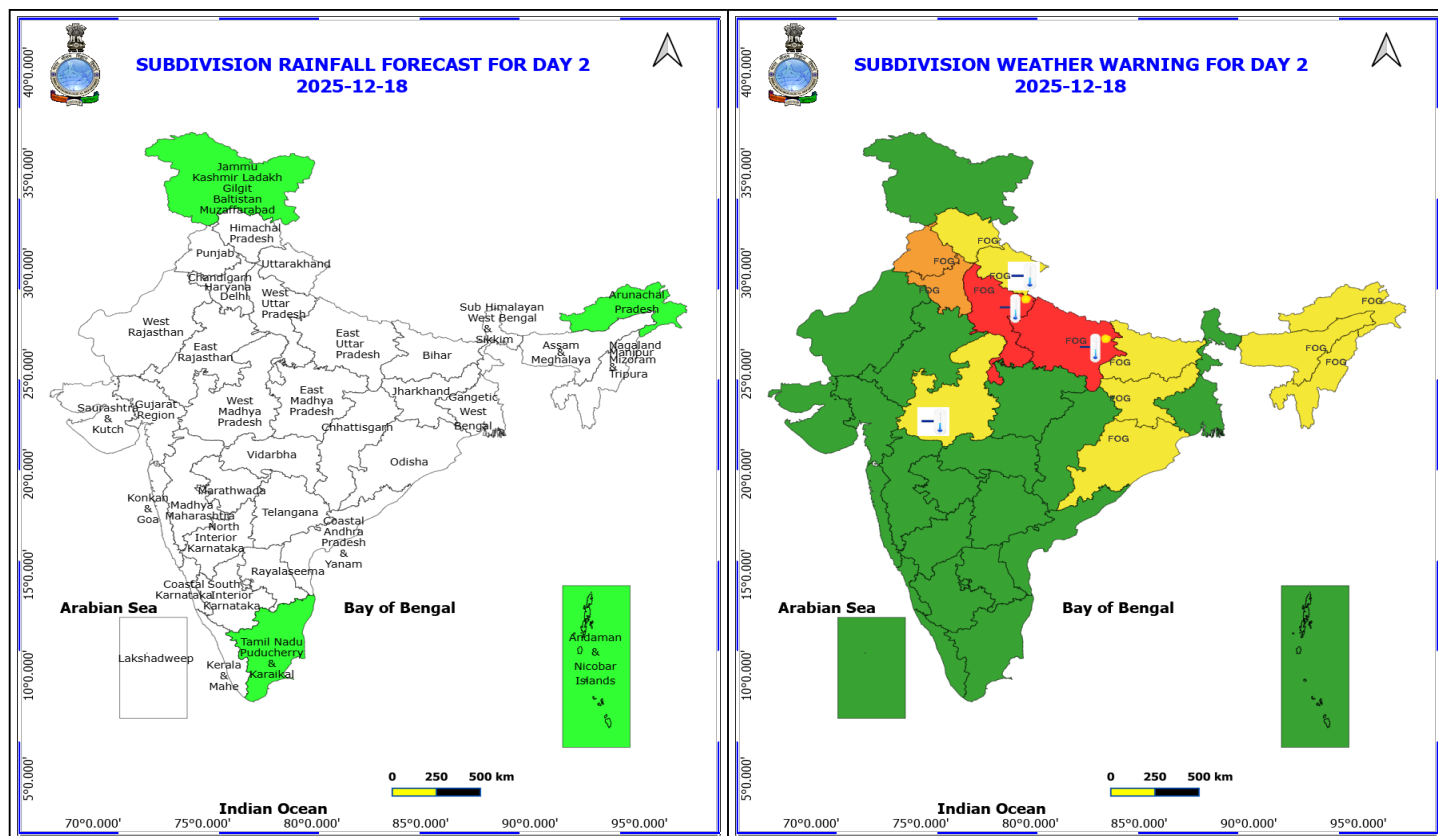
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Uttarakhand and West Madhya Pradesh.
- ❖ **Cold Day** very likely at isolated places over Uttar Pradesh.
- ❖ **Dense to very dense fog** very likely at **few pockets** over Uttar Pradesh, Punjab, Haryana, Chandigarh; and **isolated pockets** over Uttarakhand.
  - **Dense Fog** very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, Bihar, Himachal Pradesh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Odisha.
- ❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Gulf of Mannar & adjoining Comorin area.

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## 18 December (Day 2)

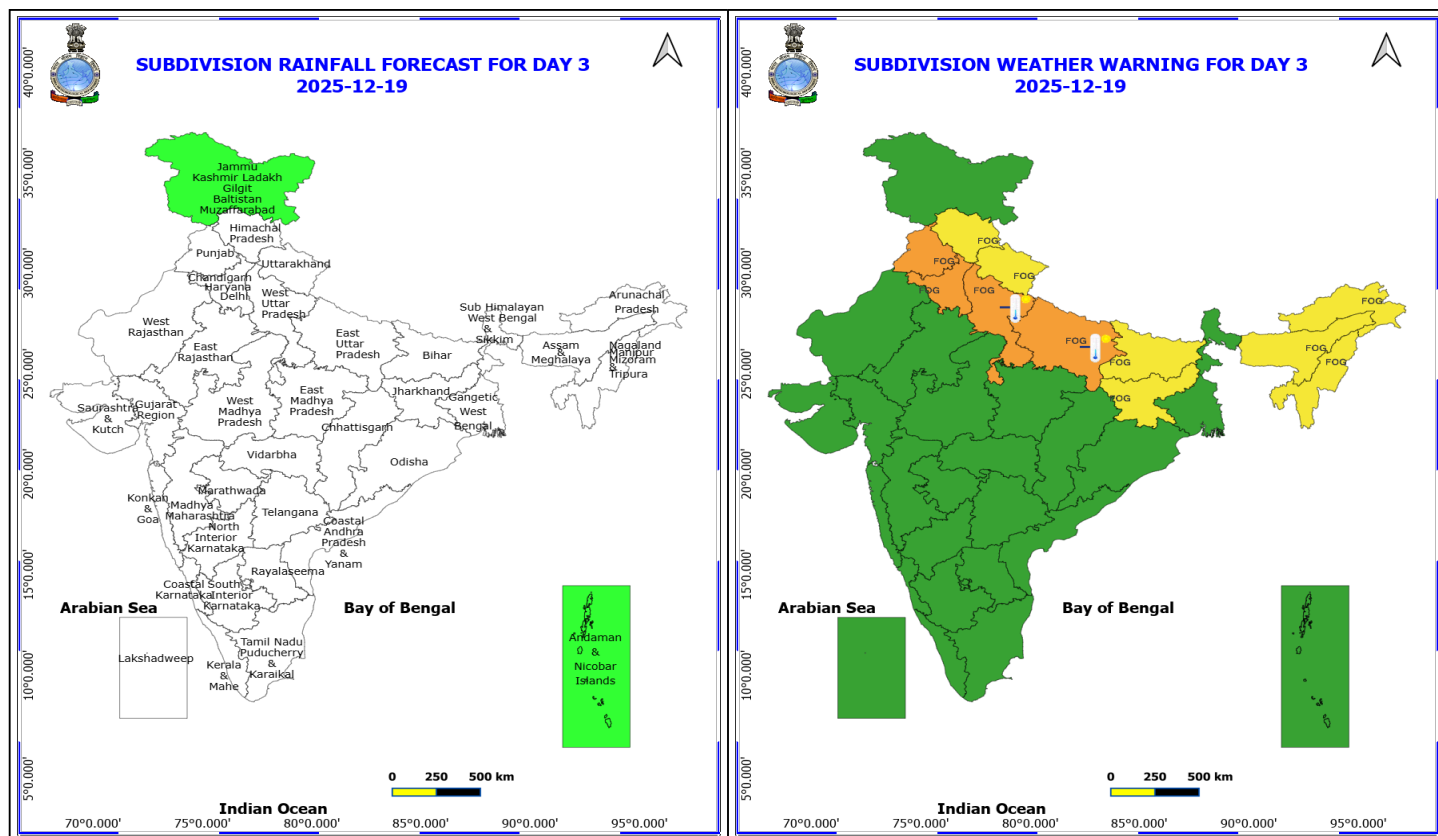
- ❖ **Cold wave conditions** very likely at isolated places over Uttarakhand and West Madhya Pradesh.
- ❖ **Cold Day** very likely at isolated places over Uttar Pradesh.
- ❖ **Dense to very dense fog** very likely at **few pockets** over Uttar Pradesh, Punjab, Haryana, Chandigarh; and **isolated pockets** over Uttarakhand.
  - **Dense Fog** very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, Bihar, Himachal Pradesh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Odisha.
- ❖ Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over Gulf of Mannar & adjoining Comorin area.

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### 19 December (Day 3)

- ❖ **Cold Day** very likely at isolated places over Uttar Pradesh.
- ❖ **Dense to very dense fog** very likely at **few pockets** over Uttar Pradesh, Punjab, Haryana, Chandigarh; and **isolated pockets** over Uttarakhand.
  - **Dense Fog** very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, Bihar, Himachal Pradesh, Jharkhand and Nagaland, Manipur, Mizoram and Tripura.
- ❖ Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over Gulf of Mannar & adjoining Comorin area.

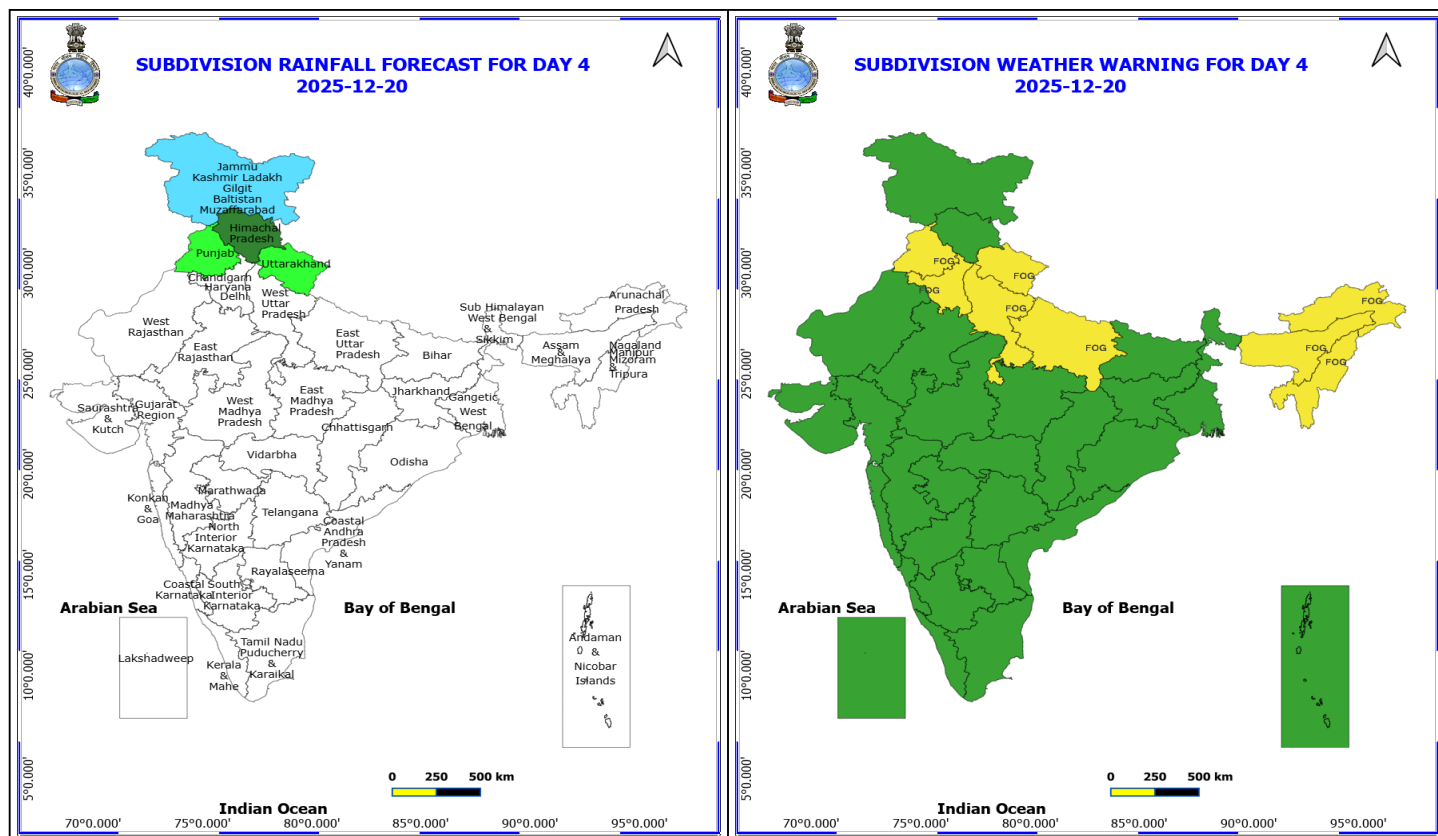
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## 20 December (Day 4)

❖ **Dense to very dense fog** very likely at **isolated pockets** over Uttar Pradesh, Uttarakhand, Punjab, Haryana and Chandigarh;

- **Dense Fog** very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.

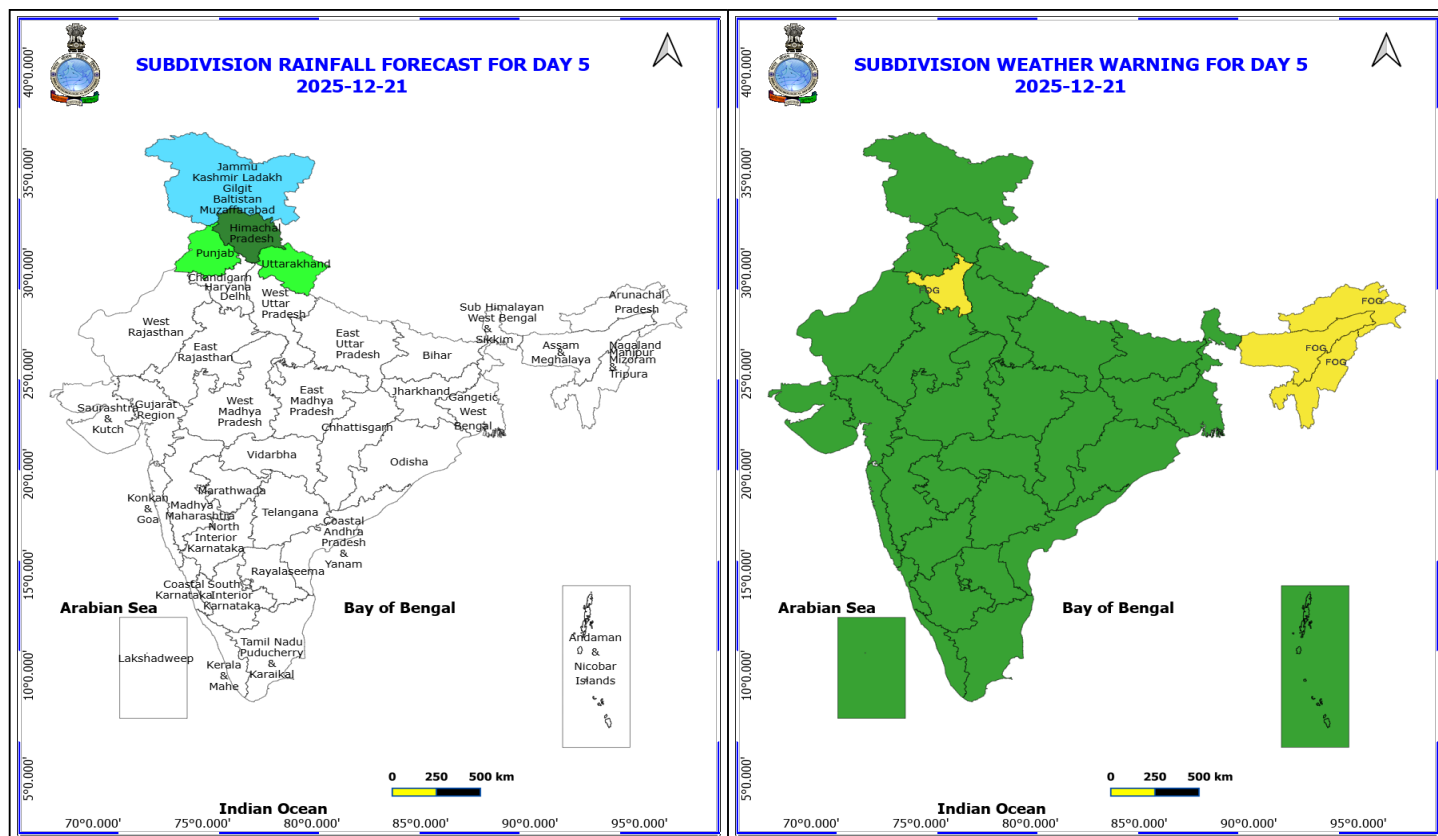
**No Warning**

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## 21 December (Day 5)

❖ **Dense Fog** likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, Haryana, Chandigarh & Delhi and Nagaland, Manipur, Mizoram and Tripura.

**No Warning**

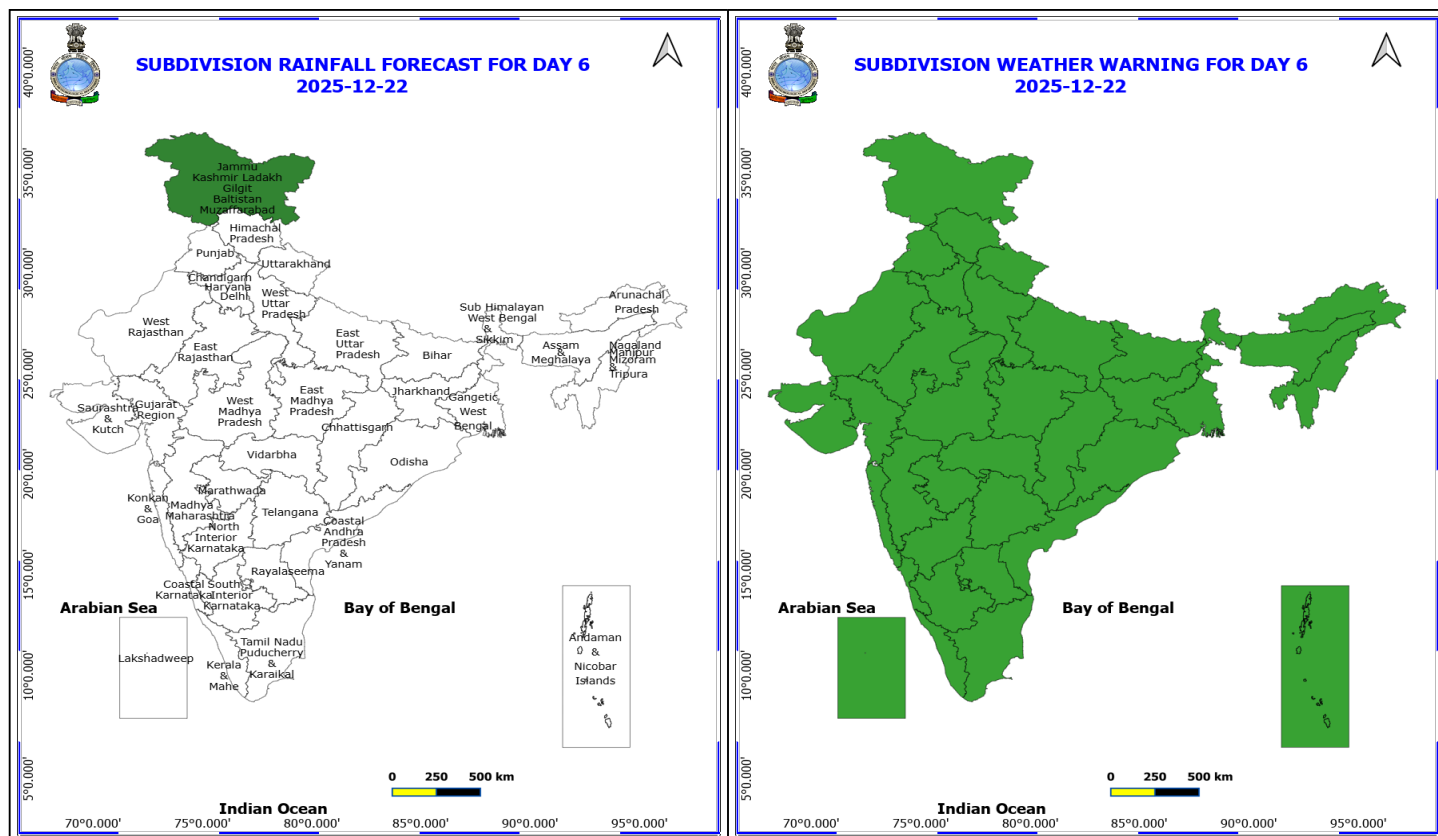
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22 December (Day 6)

No Warning

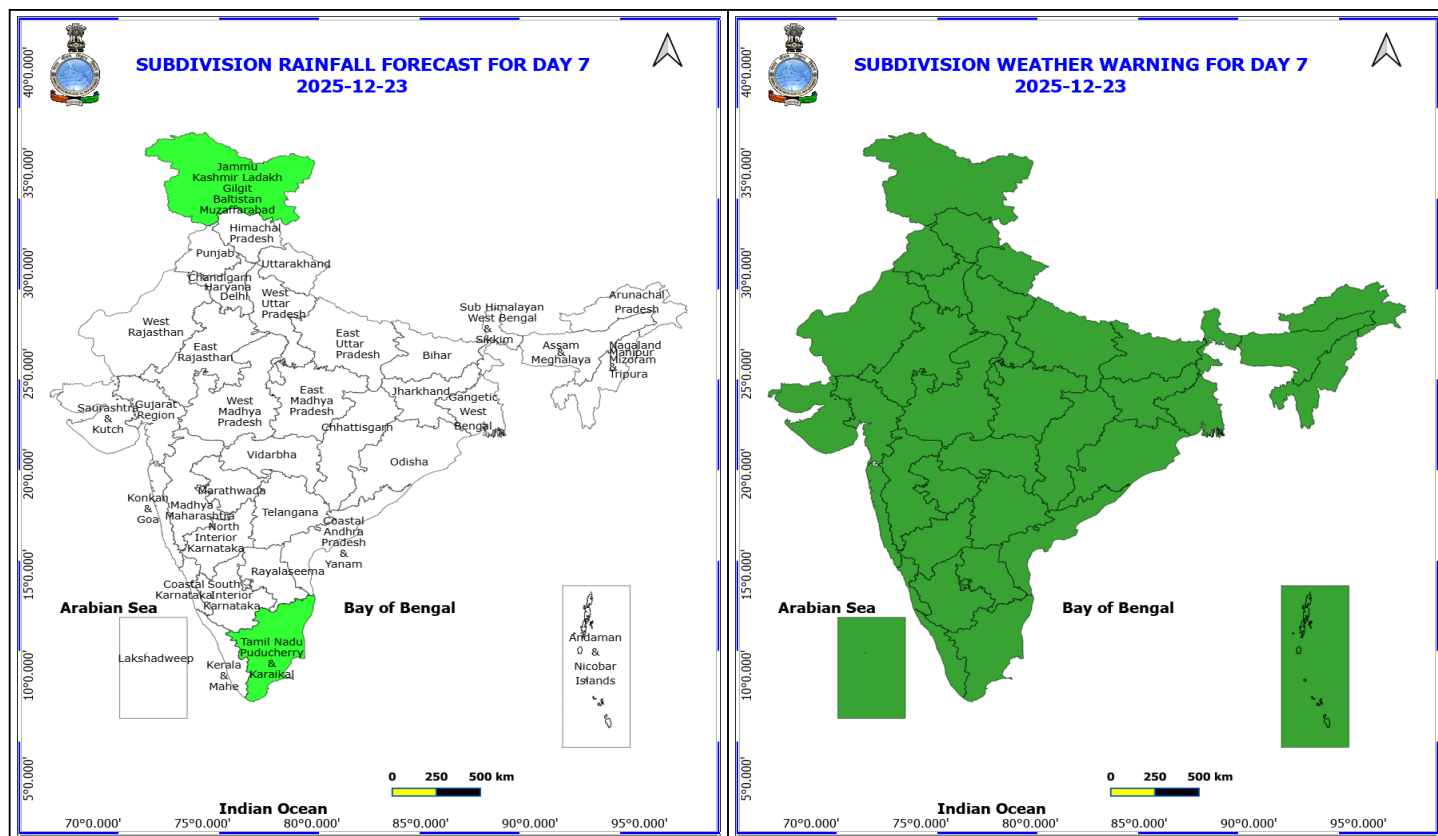
No Fishermen Warning

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## 23 December (Day 7)

No Warning

No Fishermen Warning

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**Table-1**

## 7 Days Rainfall Forecast

S.No.	Subdivision	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec
		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	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
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	DRY	DRY	DRY	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	ISOL	ISOL	DRY	DRY
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	DRY	SCT	SCT	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	ISOL	ISOL	FWS	FWS	SCT	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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	DRY	DRY	DRY	DRY	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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
36	LAKSHDWEAP	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 2025-12-17

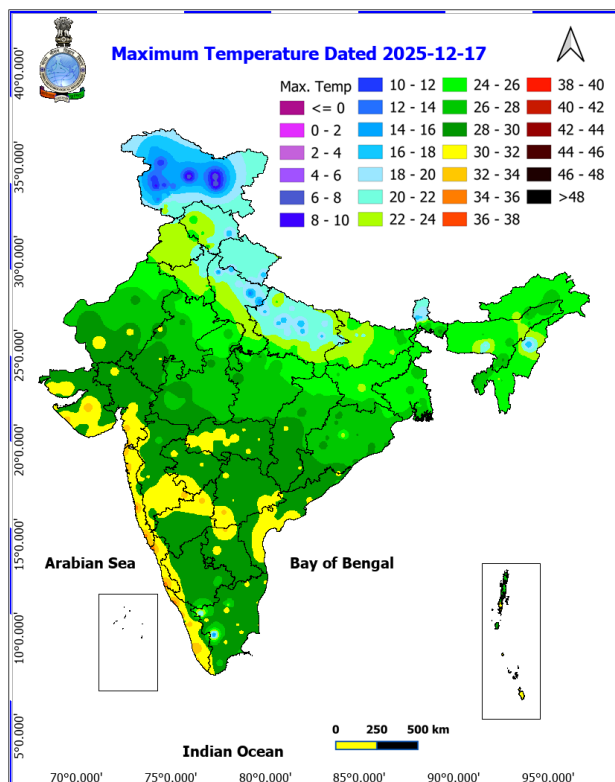


Fig. 2: Departure of Maximum Temp. Dated 2025-12-17

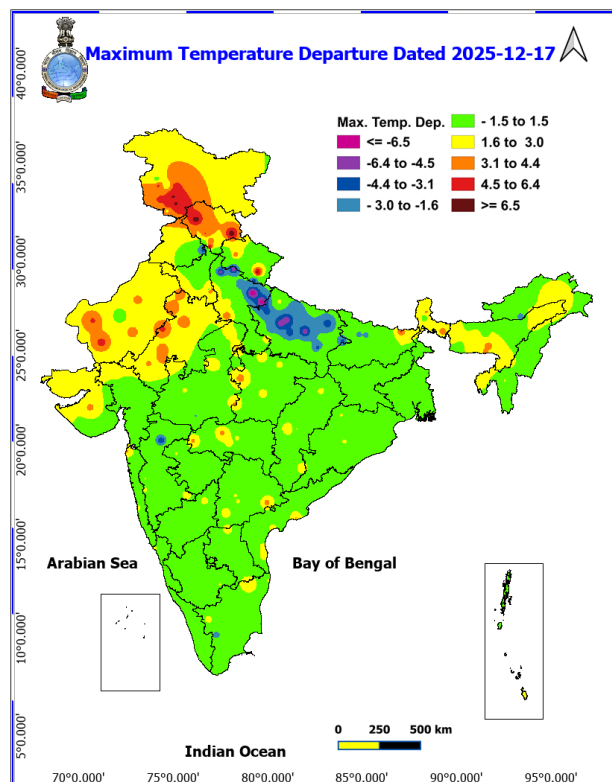


Fig. 3: Minimum Temperatures Dated 2025-12-17

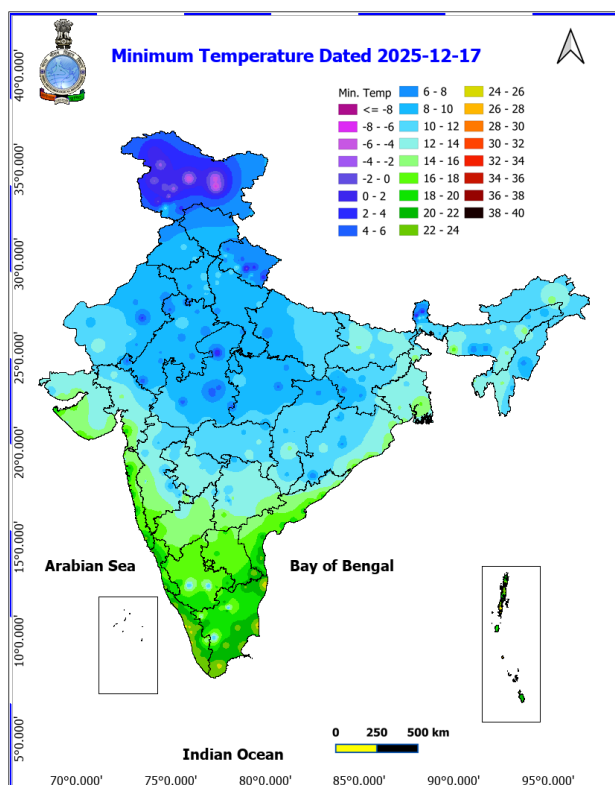
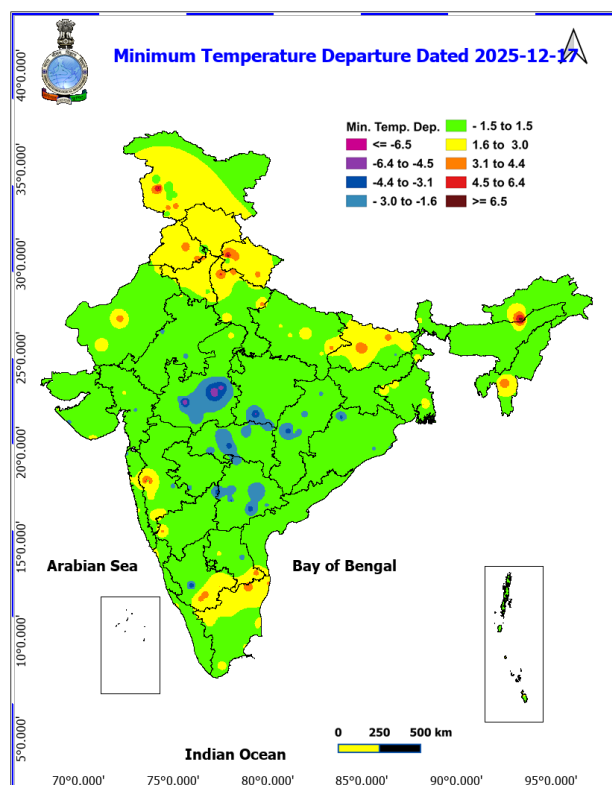


Fig. 4: Departure of Minimum Temp. Dated 2025-12-17

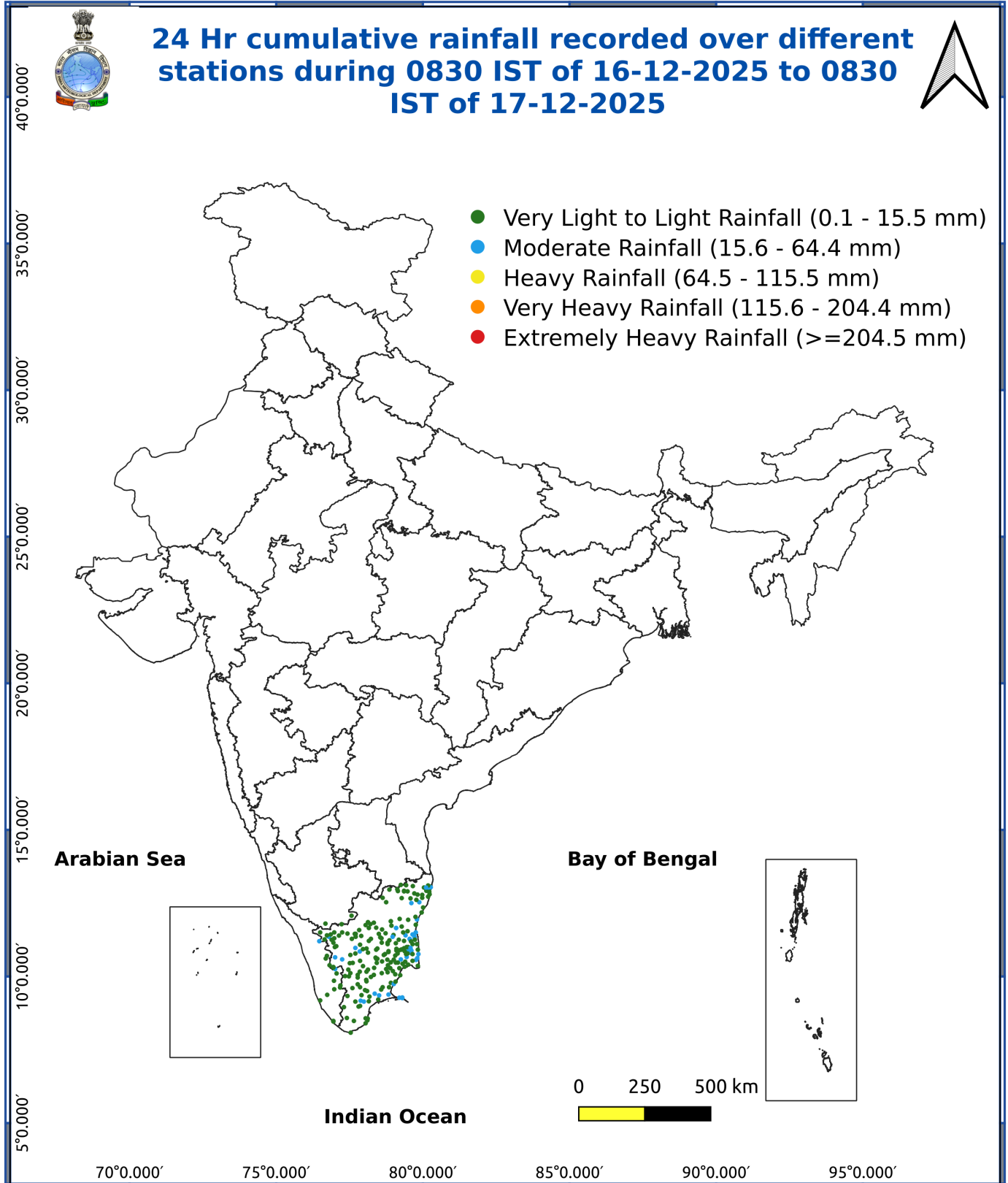


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**Impact expected due to dense/very dense fog in the early hours/morning hours:** likely to prevail during early hours/morning hours in isolated over Uttar Pradesh at many places on 18<sup>th</sup> & 19<sup>th</sup>; at a few places on 20<sup>th</sup> and at isolated places on 21<sup>st</sup> December, over Punjab, Haryana, Chandigarh during 18<sup>th</sup>-20<sup>th</sup>; at isolated pockets on 21<sup>st</sup> December and at isolated pockets over Uttarakhand during 18<sup>th</sup>-21<sup>st</sup>, northeast India during 18<sup>th</sup>-22<sup>nd</sup>, Himachal Pradesh, Bihar, Jharkhand during 18<sup>th</sup>-20<sup>th</sup> and over Odisha on 18<sup>th</sup> & 19<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 Wave conditions** likely to prevail at isolated places over West Madhya Pradesh and Uttarakhand on 18<sup>th</sup> & 19<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:**

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

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- 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 Cold Waves / Low Temperatures

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

#### Livestock / Poultry

- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

#### 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.

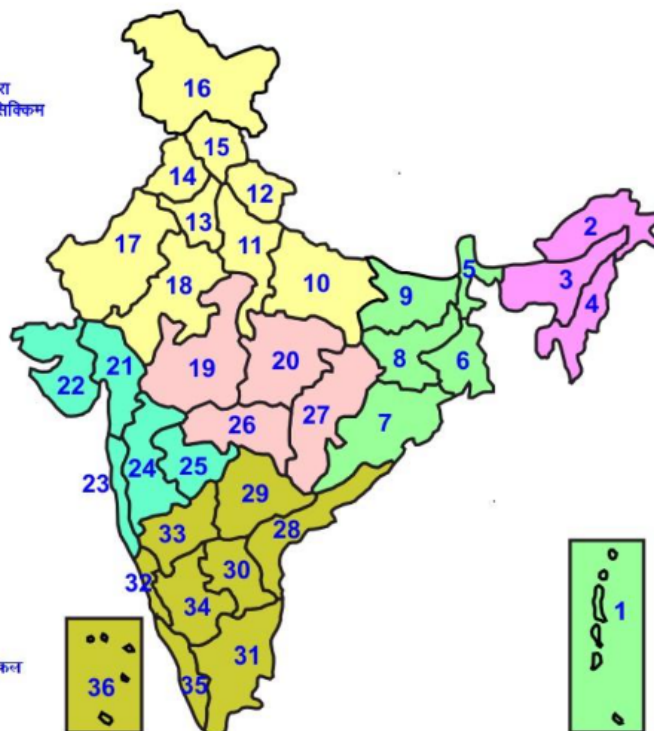
#### Legends & abbreviations:

#### 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 चंडीगढ़ 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 मराठावाड़ा
- 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. Marathwada
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


 Thunderstorm & Lightning


 Strong surface winds


 Cold Wave


 Hot & Humid


 Very Heavy Rain


 Hailstorm


 Heat Wave


 Cold Day


 Extremely Heavy Rain


 Dust Storm


 Hot Day

 Ground Frost

 Heavy Snow

 Dust Raising Winds

 Warm Night

 Fog

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

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

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

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## LEGENDS

### WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT (BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING (NO ACTION)</b>

### 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 at least 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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