

2025-12-19

Time of Issue: 08:03:00 hours IST  
(Morning)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and Warnings

- Light rainfall/snowfall likely at a few/many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 20<sup>th</sup> & 21<sup>st</sup> and at a few/isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 19<sup>th</sup>, 22<sup>nd</sup> & 23<sup>rd</sup>, Himachal Pradesh during 20<sup>th</sup>-22<sup>nd</sup>, Uttarakhand on 20<sup>th</sup> & 21<sup>st</sup> December.
- **Heavy rainfall/snowfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 21<sup>st</sup> December.
- Light rainfall likely at isolated places over Punjab during 20<sup>th</sup>-22<sup>nd</sup> December.

#### Forecast of minimum temperatures:

- No significant change in minimum temperature very likely over Northwest India during next 24 hours, gradual rise by 2-3°C thereafter during subsequent 3 days and no significant change thereafter.
- No significant change in minimum temperature very likely over Maharashtra during next 2 days and gradual rise by 2-3°C thereafter during subsequent 5 days.
- Gradual Rise in minimum temperatures by 2-3°C likely over Gujarat during next 2 days and gradual fall by 2-3°C thereafter during subsequent 5 days.
- 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 Punjab on 19<sup>th</sup> & 20<sup>th</sup>, Haryana Chandigarh during 19<sup>th</sup>-21<sup>st</sup> and **Dense fog conditions** very likely to prevail during early hours/morning hours in isolated pockets of Punjab on 21<sup>st</sup>, 24<sup>th</sup> & 25<sup>th</sup> and over Haryana Chandigarh on 22<sup>nd</sup>, 24<sup>th</sup> & 25<sup>th</sup> December.
- **Dense to very dense fog conditions** very likely to prevail during early hours/morning hours at a few/many places over Uttar Pradesh during 19<sup>th</sup>-21<sup>st</sup>; **Dense fog conditions** very likely to prevail during early hours/morning hours in isolated pockets of Uttar Pradesh during 22<sup>nd</sup>-25<sup>th</sup> December.
- **Dense to very dense fog conditions** very likely to prevail during early hours/morning hours at isolated pockets over Uttarakhand on 19<sup>th</sup> & 20<sup>th</sup> and **Dense fog conditions** very likely to prevail during early hours/morning hours in isolated pockets of Uttarakhand on 21<sup>st</sup> December.
- **Dense to very dense fog conditions** very likely to prevail during early hours/morning hours at isolated places over Bihar on 19<sup>th</sup> and 20<sup>th</sup> December.
- **Dense fog conditions** very likely to prevail during early hours/morning hours at a few places over Bihar on 21<sup>st</sup> and 22<sup>nd</sup>; in isolated pockets of Jharkhand, Odisha on 19<sup>th</sup> & 20<sup>th</sup>, Gangetic West Bengal on 20<sup>th</sup>, over northeast India during 19<sup>th</sup>-22<sup>nd</sup> December.
- **Dense fog conditions** very likely to prevail during early hours/morning hours at isolated places over East Madhya Pradesh on 19<sup>th</sup> & 20<sup>th</sup>.
- **Cold Day to Severe cold day conditions** very likely over isolated places over Uttar Pradesh on 19<sup>th</sup> & 20<sup>th</sup>
- **Cold Day conditions** very likely over isolated places over Uttarakhand on 19<sup>th</sup> & 20<sup>th</sup> December.

#### Fisherman Warning:

Fishermen are advised not to venture into the following areas during 19<sup>th</sup> December to 23<sup>rd</sup> December:

**Bay of Bengal:** Over Gulf of Mannar and adjoining Comorin area on 19<sup>th</sup> & 20<sup>th</sup> December.

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**Main Weather Observations:**

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at many places** over Andaman & Nicobar Islands; **Dry** over rest of the country.
- ❖ **Fog Condition Observed (at 0530 hours of today): Dense fog conditions:** at many places over West Uttar Pradesh and Punjab, at most places over Haryana Chandigarh & Delhi, at a few places over Jharkhand and Bihar, at isolated places over East Uttar Pradesh **Moderate fog conditions:** at a few places over Jharkhand, Bihar, East Uttar Pradesh and Punjab, at isolated places over Nagaland, Manipur, Mizoram & Tripura and West Madhya Pradesh **Shallow fog conditions:** at a few places over West Uttar Pradesh, at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh and Coastal Andhra Pradesh & Yanam
- ❖ **Visibility reported (at 0530 hours of today):** Haryana Chandigarh & Delhi: New Delhi (safdarjung), New Delhi (palam) AP (dist South West Delhi), Ambala (dist Ambala) 50.0 Each; Punjab: Patiala (dist Patiala), Amritsar (rajasansi) AP (dist Amritsar) 50.0 Each, Chandigarh (dist Chandigarh) 200.0; West Uttar Pradesh: Bareilly (dist Bareilly), Agra (IAF) (dist Agra) 50.0 Each, Jhansi (dist Jhansi) 500.0; Bihar: Gaya (dist Gaya), Bhagalpur (dist Bhagalpur) 50.0 Each, Patna-airport (dist Patna), Purnea (dist Purnia) 200.0 Each; East Uttar Pradesh: Lucknow (amausi) AP (dist Lucknow), Gorakhpur (dist Gorakhpur) 50.0 Each, Bahraich (dist Bahraich), Varanasi (babatpur) AP (dist Varanasi), Sultanpur-obs2 (dist Sultanpur), Azamgarh-obs (dist Azamgarh) 200.0 Each, Varanasi (dist Varanasi), Kanpur Airforce (dist Kanpur Nagar) 500.0 Each; Jharkhand: Daltonganj (dist Palamu) 50.0, Ranchi AP (dist Ranchi) 200.0; West Madhya Pradesh: Gwalior (dist Gwalior) 200.0; Nagaland, Manipur, Mizoram & Tripura: Imphal (tulihal) AP (dist Imphal East) 200.0, Kailashahar AP (dist Unakoti) 500.0; Coastal Andhra Pradesh & Yanam: Vijayawada-gannavaram, Machilipatnam (dist Krishna), Bapatla (dist Bapatla) 500.0 Each; Assam & Meghalaya: Barapani/shillong (dist East Khasi Hills) 500.0.
- ❖ **Minimum Temperature Departures (as on 18-12-2025): below normal(-1.6°C to -3.0°C)** at many places over Vidarbha; at few places over Marathwada, Telangana, Rayalaseema, North Interior Karnataka and Kerala & Mahe; at isolated places over Assam & Meghalaya, Odisha, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. **appreciably below normal(-5.0°C to -3.1°C)** at few places over Chhattisgarh and Telangana; at isolated places over Odisha, East Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka. **markedly below normal(< -5.0°C )** at few places over West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Rayalaseema and South Interior Karnataka; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Odisha, Jharkhand, Bihar, East Uttar Pradesh, West Uttar Pradesh, Himachal Pradesh, Saurashtra & Kutch, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka. **The lowest minimum temperature** of 4.4°C was reported at NAGAUR (RAJASTHAN) over the Plains of India.
- ❖ **Maximum Temperature Departures (as on 18-12-2025): The highest maximum temperature** of 36.6°C was reported at KOTTAYAM (KERALA).

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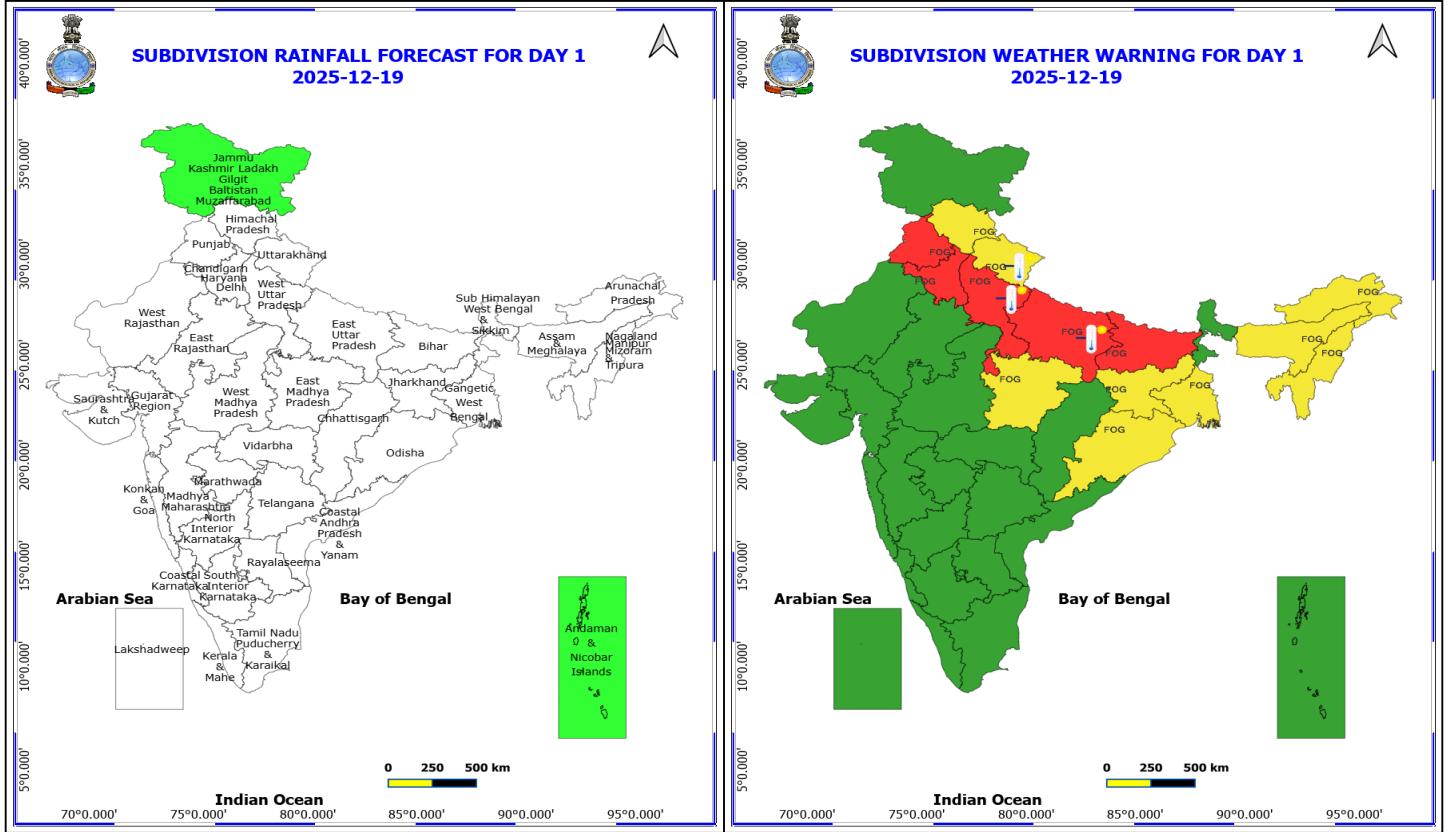


**Meteorological Analysis (Based on 0530 hours IST)**

- The **Western Disturbance** as a cyclonic circulation over Southwest Iran & neighbourhood at 5.8 km above mean sea level persists.
- Another **Western Disturbance** as a cyclonic circulation over Jammu & neighbourhood at 3.1 km above mean sea level persists.
- The **cyclonic circulation** over South Kerala and neighbourhood at 1.5 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order upto 100 knots at 12.6 km above mean sea level prevails over North India.

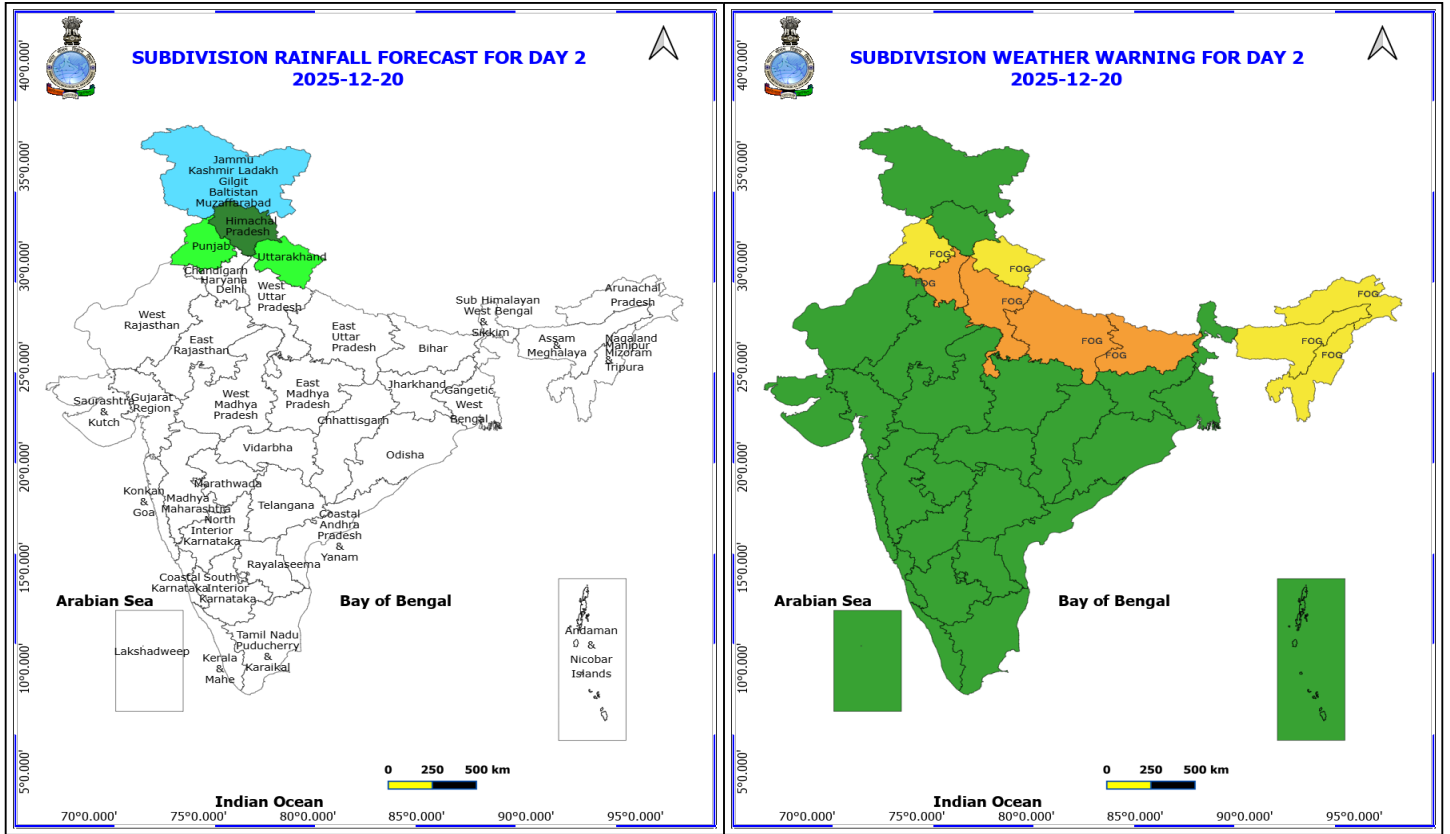
**Weather Outlook for subsequent 3 days**

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



**19 December (Day 1)**

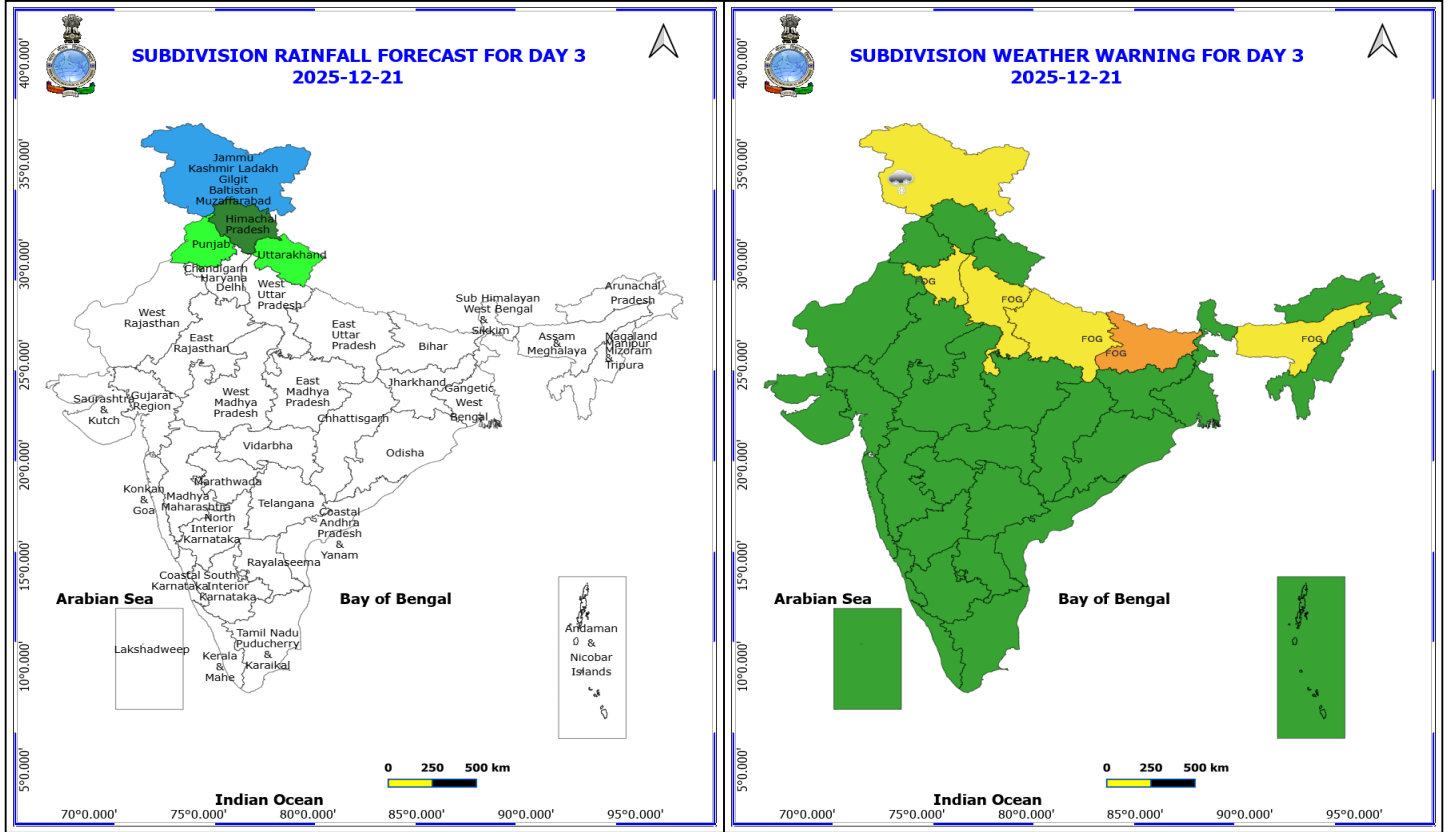
- ❖ **Cold Day** very likely at isolated places over Uttar Pradesh and Uttarakhand.
- ❖ **Fog** very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, Bihar, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Odisha, Punjab, Uttar Pradesh and Uttarakhand.
- ❖ 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.



**20 December (Day 2)**

- ❖ **Fog** very likely at isolated pockets over Arunachal Pradesh, Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura, Punjab, Uttar Pradesh and Uttarakhand.
- ❖ 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.

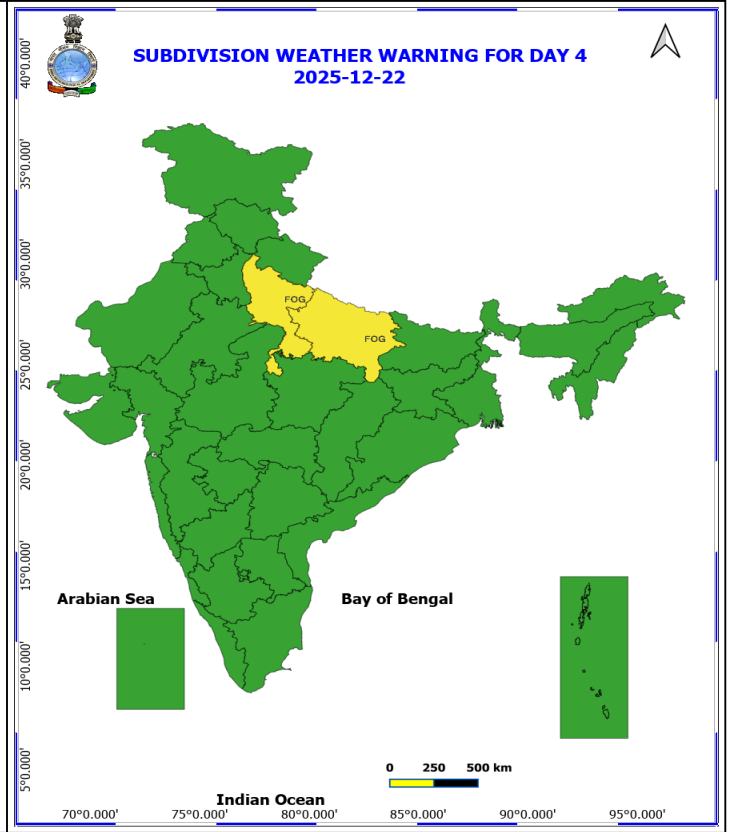
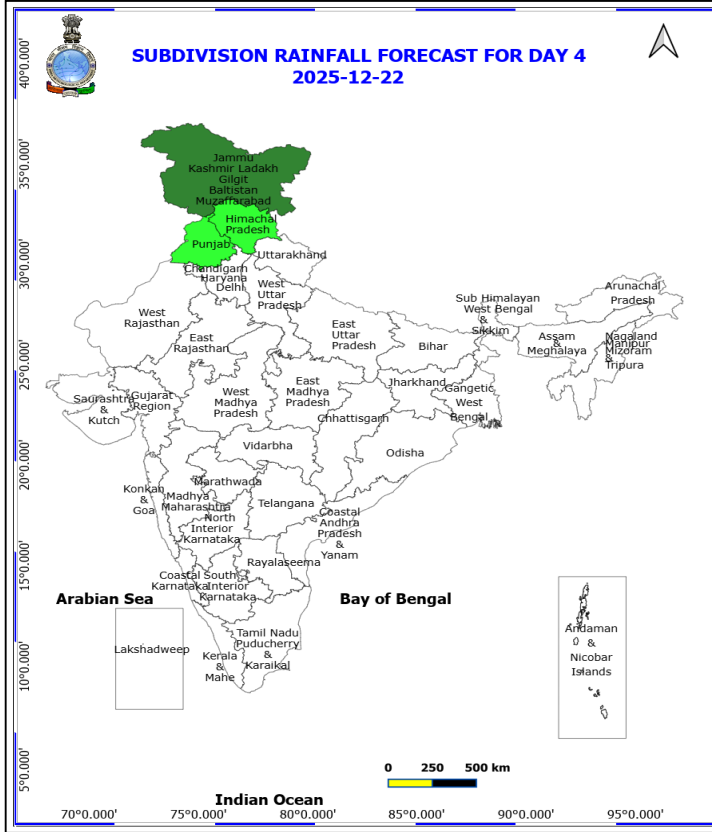
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**21 December (Day 3)**

- ❖ **Heavy Snowfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Fog** very likely at isolated pockets over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi and Uttar Pradesh.

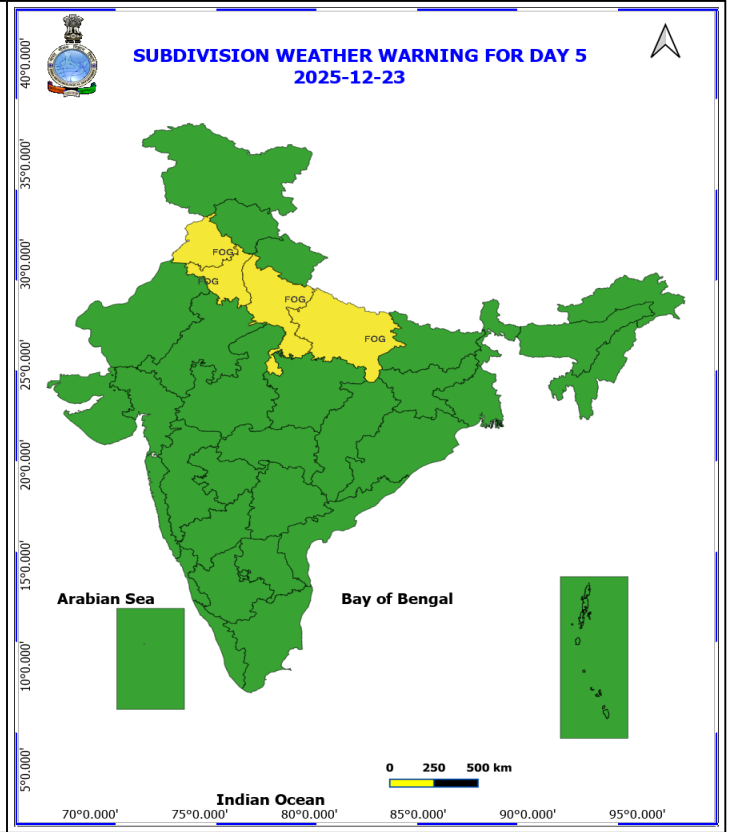
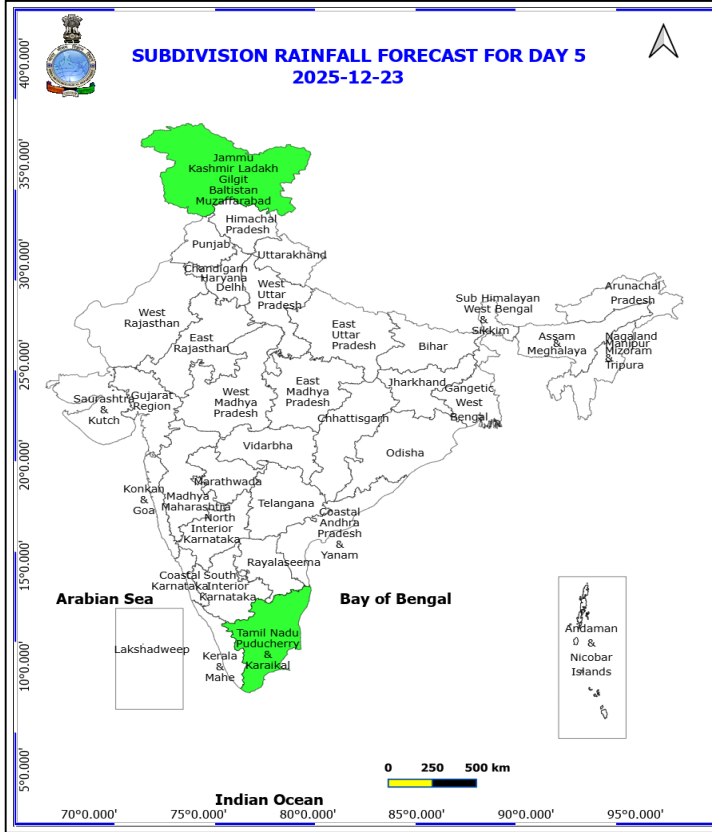
**No Fishermen Warning**



**22 December (Day 4)**

❖ Fog likely at isolated pockets over Uttar Pradesh.

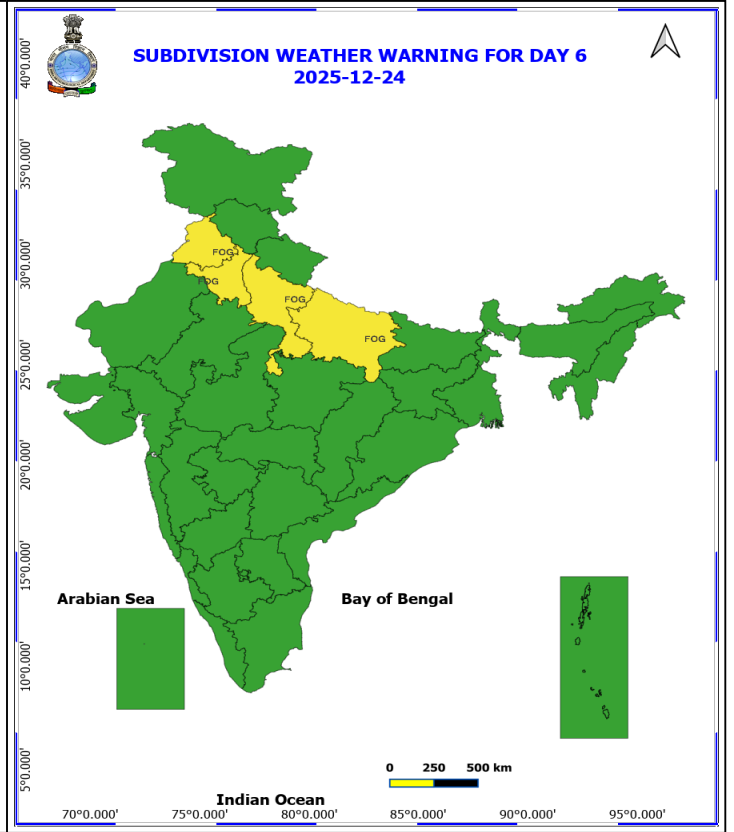
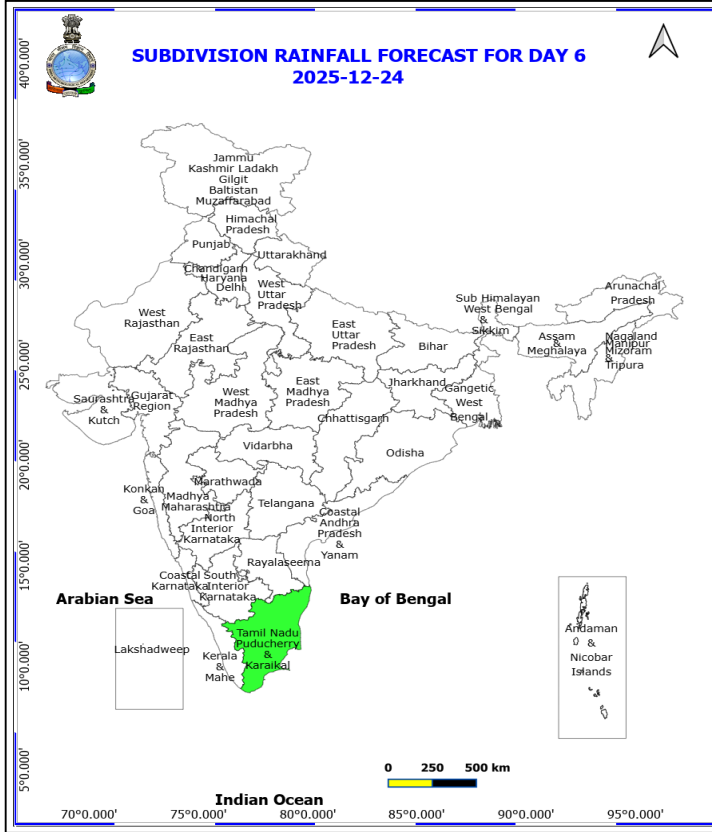
**No Warning**



**23 December (Day 5)**

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

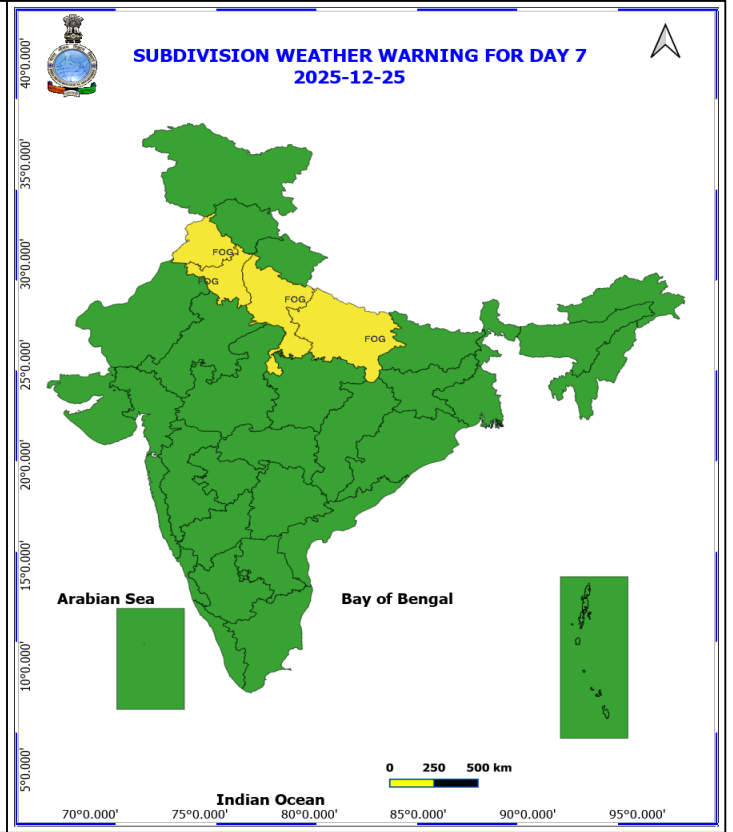
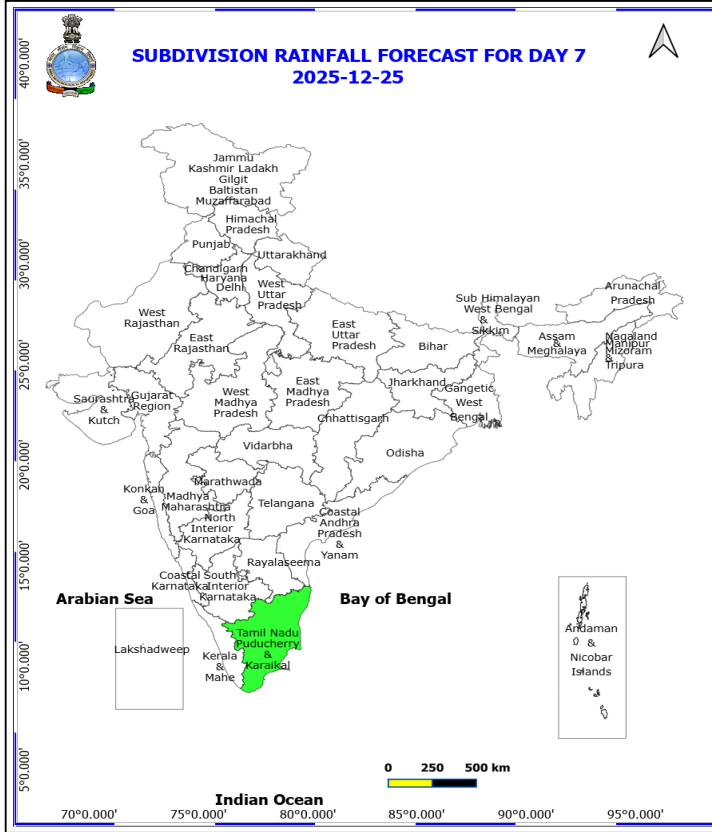
**No Warning**



**24 December (Day 6)**

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

**No Fishermen Warning**



**25 December (Day 7)**

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

**No Fishermen Warning**



## Table-1

### 7 Days Rainfall Forecast

S.No.	Subdivision	19- Dec	20- Dec	21- Dec	22- Dec	23- Dec	24- Dec	25- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	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	ISOL	ISOL	DRY	DRY	DRY	DRY
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	SCT	SCT	ISOL	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	ISOL	FWS	WS	SCT	ISOL	DRY	DRY
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	DRY	DRY	DRY	DRY	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	DRY	DRY
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 2025-12-18

Fig. 2: Departure of Maximum Temp. Dated 2025-12-18

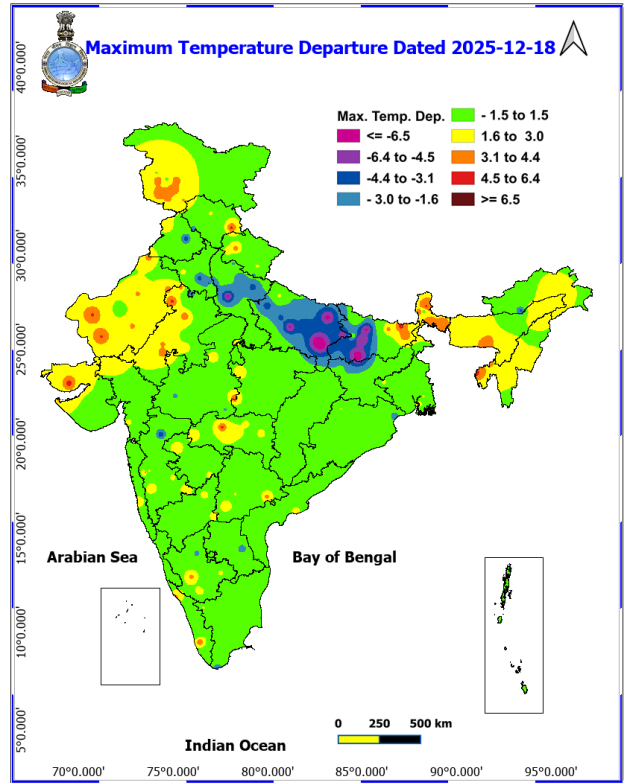
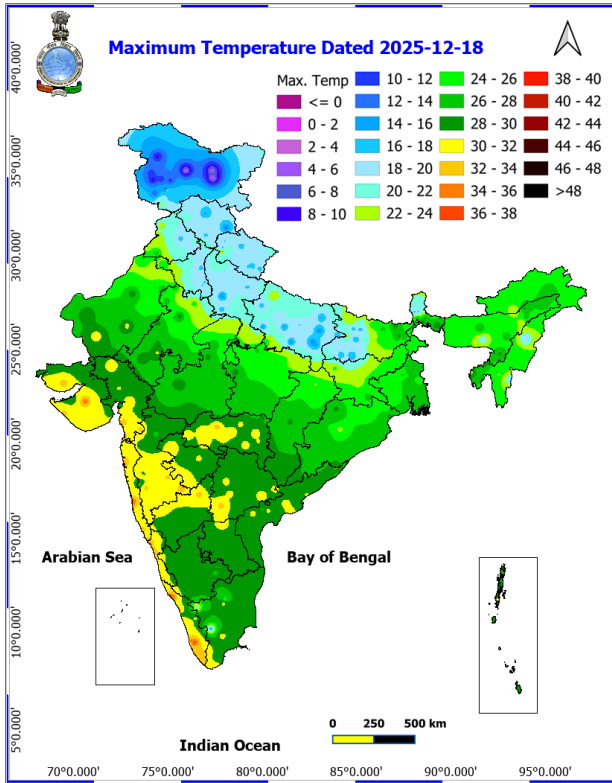
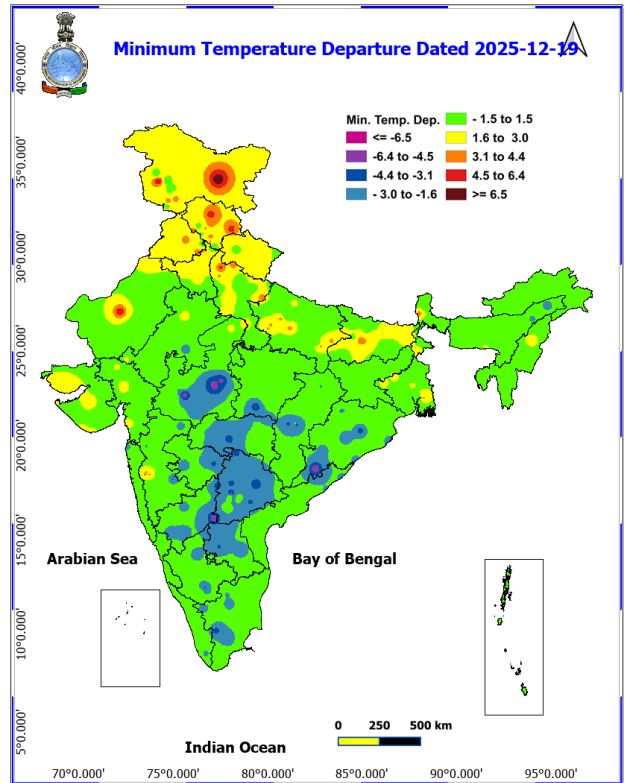
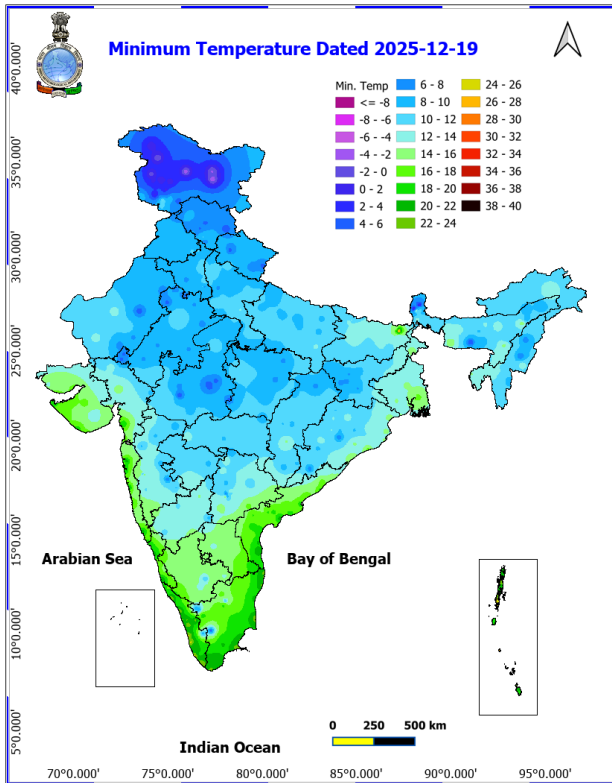
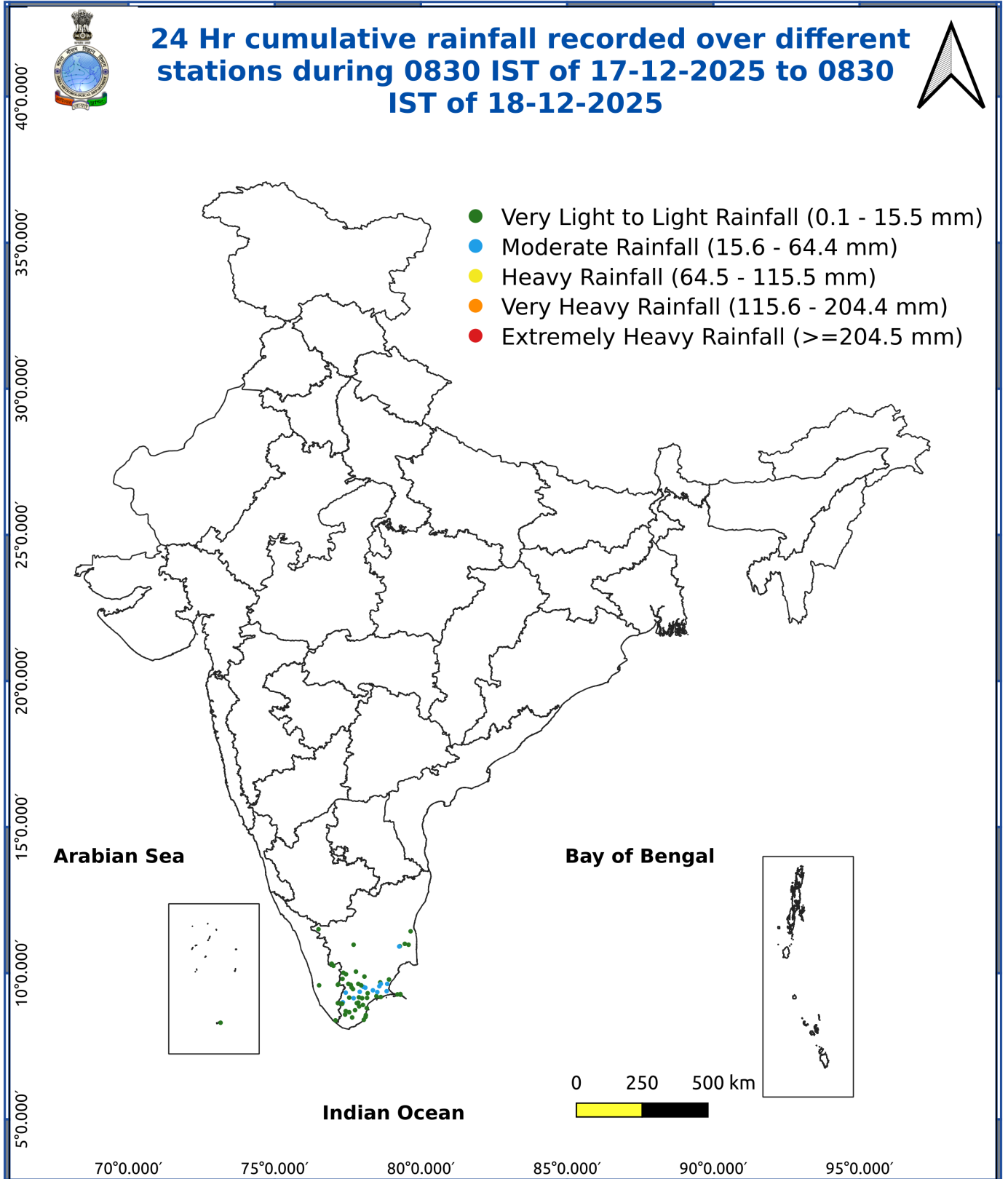


Fig. 3: Minimum Temperatures Dated 2025-12-18

Fig. 4: Departure of Minimum Temp. Dated 2025-12-18





**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, Haryana during 19th-21st, over Punjab, Uttarakhand & Bihar on 19th & 20th December and dense fog thereafter for subsequent 2-3 days; over Northeast India during 19th -21st, Himachal Pradesh during 19th-20th, Odisha and Jharkhand on 19th & 20th 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** very likely over isolated places over Uttar Pradesh, Uttarakhand on 19<sup>th</sup> & 20<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.
- Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts.

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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, North Interior Karnataka** and **Telangana**, 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.

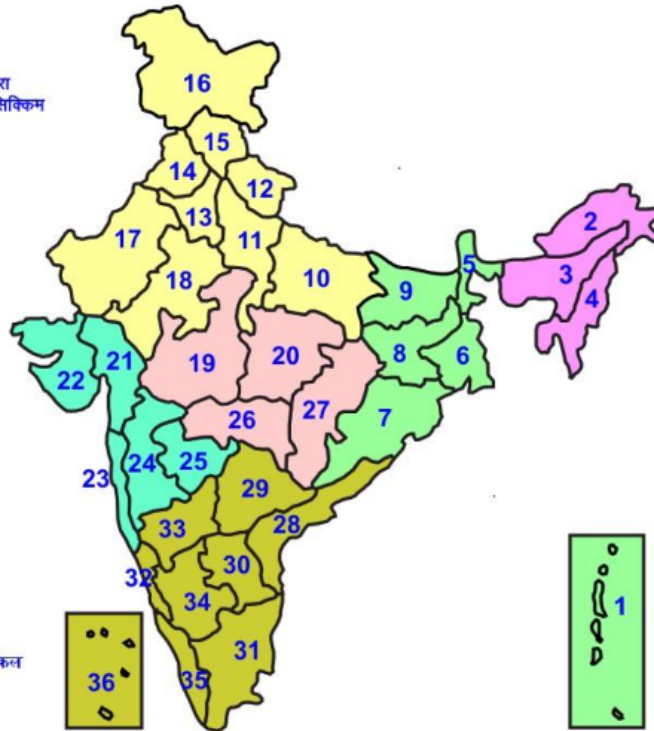
Keep the chicks warm by providing artificial light in the poultry sheds.

#### 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

- 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              |                 |                      |                    |

\*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

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)

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