

2025-12-20

Time of Issue: 08:10:00 hours IST
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings

- Isolated rainfall/snowfall very likely over Western Himalayan region for next 4 days with **Heavy rainfall/snowfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 21st December and isolated rainfall over Punjab during 20th-22nd December.

Forecast of minimum temperatures:

- Gradual rise in minimum temperatures by 2-3 °C over Northwest India for next 2 days and thereafter fall by 2-4°C during subsequent 5 days.
- No significant change in minimum temperature very likely over East India for next 4 days and thereafter gradual fall in minimum temperature by 2°C for subsequent 3 days.
- No significant change minimum temperatures over Gujarat Region during next 24 hours and gradual fall by 2-3°C thereafter during subsequent 6 days.
- No significant change in minimum temperature over Maharashtra, Central and Northeast India during next 7days.

Dense Fog & Cold wave Warnings:

- Dense to very dense fog conditions** during night/morning hours very likely at many places over Punjab, jammu division till morning hours of 20th December, Uttarakhand, Haryana, Chandigarh, West Uttar Pradesh, north Madhya Pradesh & Bihar till morning hours of 21st December, East Uttar Pradesh till morning hours of 22nd December and at isolated places over Punjab, Haryana & Chandigarh, Uttar Pradesh on 24th & 25th December.
- Dense fog conditions** during night/morning hours very likely at isolated pockets of northeast India till morning hours of 24th December; Himachal Pradesh, Chhattisgarh, Jharkhand & north Odisha till morning hours of 21st December; Haryana, Chandigarh, West Uttar Pradesh on 21st & 23rd December; Bihar on 21st & 22nd December; over Uttarakhand & Punjab on 23rd; East Uttar Pradesh on 22nd & 23rd; East Rajasthan till morning hours on 20th, 22nd & 23rd December and over West Rajasthan on 22nd and 23rd December.
- Cold wave conditions** very likely over isolated places over Telangana and South Interior Karnataka on 20th & 21st and over West Madhya Pradesh on 20th December.
- Cold wave to Severe cold wave conditions** very likely over isolated places over North Interior Karnataka on 20th & 21st December.

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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 Andaman & Nicobar Islands; **Dry** over rest of the country.
- ❖ **Fog Condition Observed (at 0530 hours of today): Dense fog conditions:** at most places over Punjab, at a few places over West Uttar Pradesh, at isolated places over East Uttar Pradesh and Haryana Chandigarh & Delhi
Moderate fog conditions: at a few places over Jharkhand and Haryana Chandigarh & Delhi, at isolated places over Bihar
Shallow fog conditions: at many places over East Uttar Pradesh, at most places over Uttarakhand, at a few places over Bihar and West Uttar Pradesh, at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Haryana Chandigarh & Delhi, West Madhya Pradesh and Chhattisgarh
- ❖ **Visibility reported (at 0530 hours of today):** West Uttar Pradesh: Agra (IAF) (dist Agra) 50; East Uttar Pradesh: Kanpur Airforce (dist Kanpur Nagar) 50; Punjab: Patiala (dist Patiala), Chandigarh (dist Chandigarh), Amritsar (rajasansi) AP (dist Amritsar) 50 Each; Haryana Chandigarh & Delhi: Ambala (dist Ambala) 50, New Delhi (safdarjung), New Delhi (palam) AP (dist South West Delhi) 200 Each; Bihar: Bhagalpur (dist Bhagalpur) 200; Jharkhand: Ranchi AP (dist Ranchi) 200;.
- ❖ **Minimum Temperature Departures (as on 19-12-2025): below normal(-1.6°C to -3.0°C)** at few places over Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka, North Interior Karnataka and Kerala & Mahe; at isolated places over Assam & Meghalaya, Odisha, Haryana-Chandigarh-Delhi, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Chhattisgarh and Coastal Andhra Pradesh & Yanam. **appreciably below normal(-5.0°C to -3.1°C)** at few places over Madhya Maharashtra, Vidarbha, Chhattisgarh and Telangana; at isolated places over Odisha, West Madhya Pradesh, East Madhya Pradesh, Konkan & Goa, Marathwada, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka, South Interior Karnataka and Kerala & Mahe. **markedly below normal(< -5.0°C)** at many places over North Interior Karnataka; at few places over Gangetic West Bengal, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Rayalaseema, Coastal Karnataka and South Interior Karnataka; at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Odisha, Bihar, East Uttar Pradesh, West Uttar Pradesh, Saurashtra & Kutch, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. **The lowest minimum temperature** of 4.0°C is reported at SHIVPURI (MADHYA PRADESH) over the Plains of India.
- ❖ **Maximum Temperature Departures (as on 19-12-2025): below normal(-1.6°C to -3.0°C)** at few places over West Uttar Pradesh. **markedly below normal(< -5.0°C)** at most places over Bihar. **The highest maximum temperature** of 35.2°C is reported at RAJKOT (A) (GUJARAT).

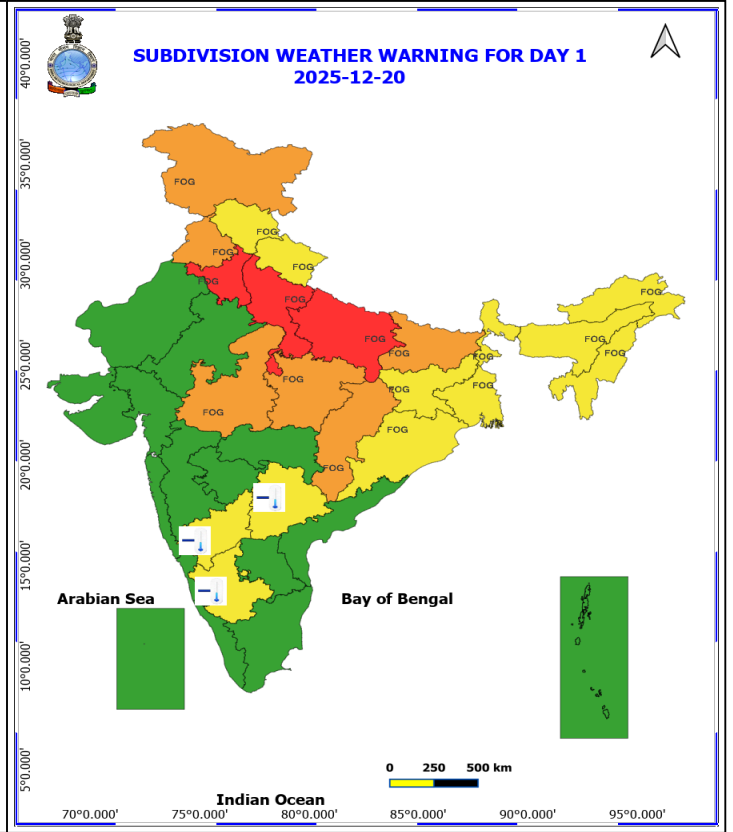
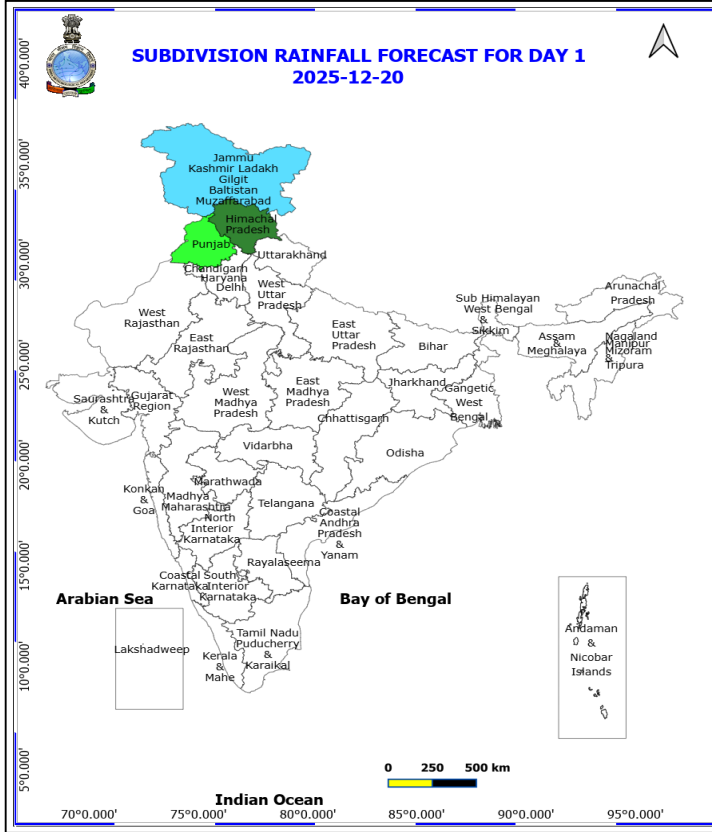


Meteorological Analysis (Based on 0530 hours IST)

- The **Western Disturbance** as a cyclonic circulation over Jammu & neighbourhood at 3.1 km above mean sea level persists.
- Another **Western Disturbance** as a cyclonic circulation over Southwest Iran & neighbourhood extending upto 5.8 km above mean sea level persists.
- The **cyclonic circulation** over southeast Arabian sea & adjoining south Kerala coast now lies over Gulf of Mannar & neighbourhood at 1.5 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 to prevail over North India.

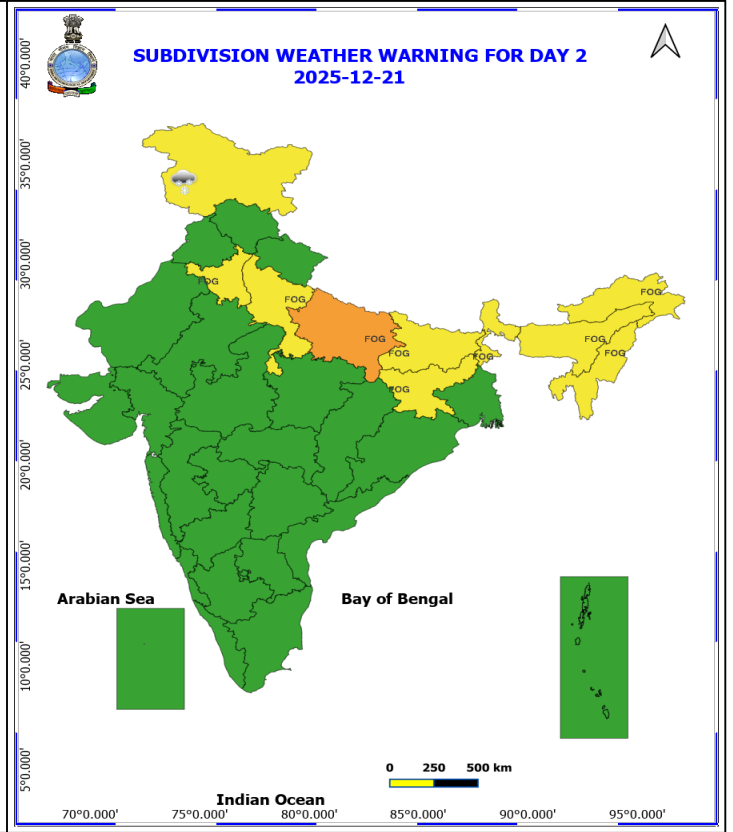
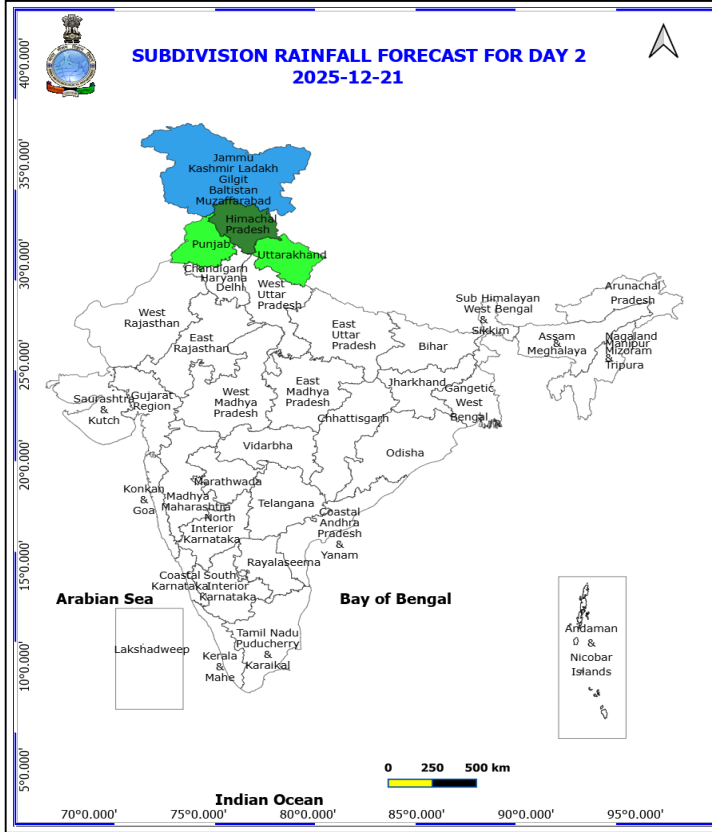
Weather Outlook for subsequent 3 days

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



20 December (Day 1)

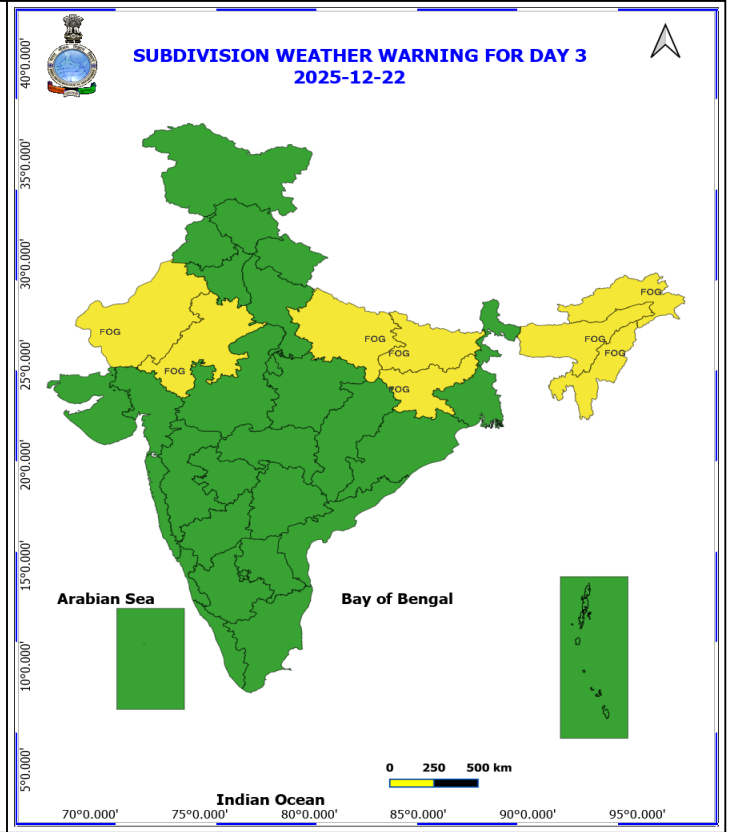
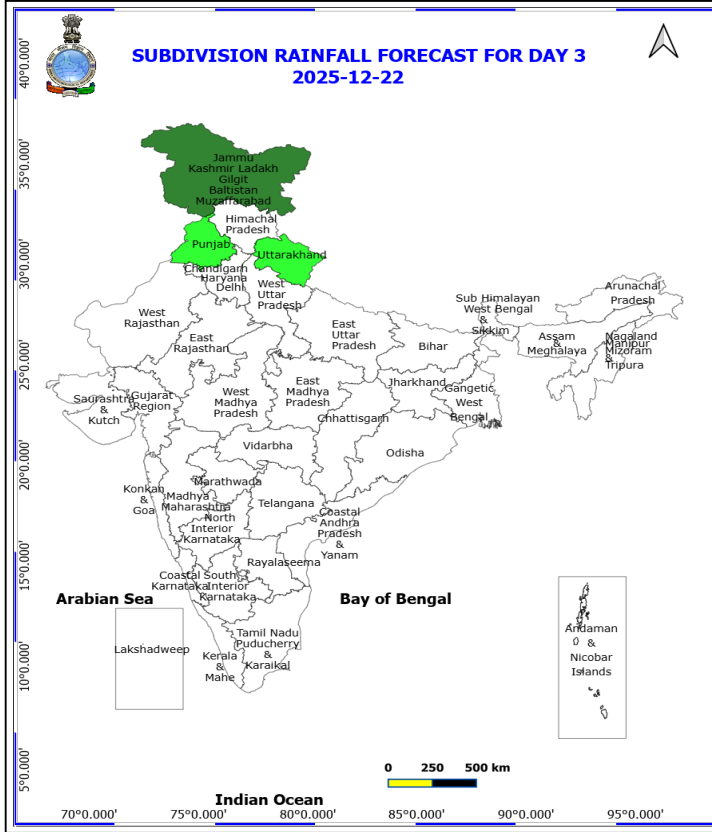
- ❖ **Cold wave conditions** very likely at isolated places over Interior Karnataka and Telangana.
- ❖ **Dense Fog** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Himachal Pradesh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Odisha and West Bengal & Sikkim.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



21 December (Day 2)

- ❖ **Heavy Snowfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Dense Fog** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Sub Himalayan West Bengal & Sikkim and West Uttar Pradesh.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over East Uttar Pradesh.
- ❖ Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail along and off south Somalia coast, adjoining westcentral Arabian Sea, along and off Somalia coast, adjoining sea areas.

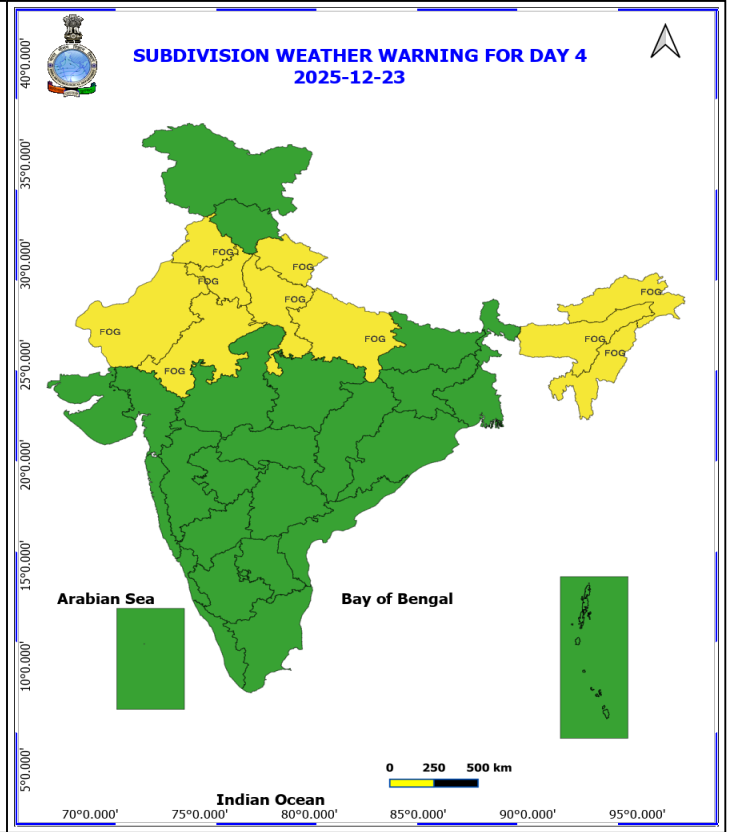
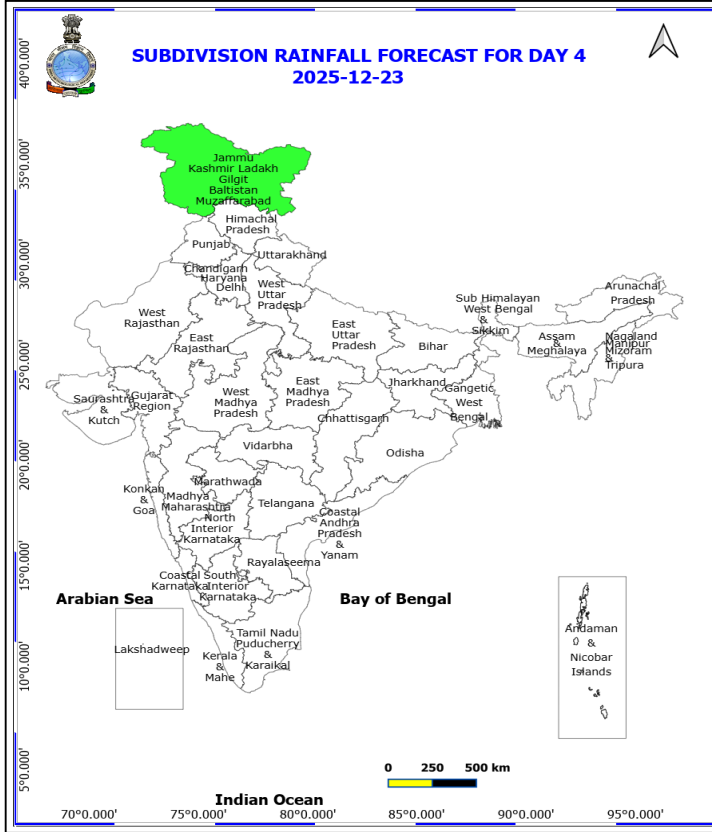
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22 December (Day 3)

❖ **Dense Fog** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, East Uttar Pradesh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura and Rajasthan.

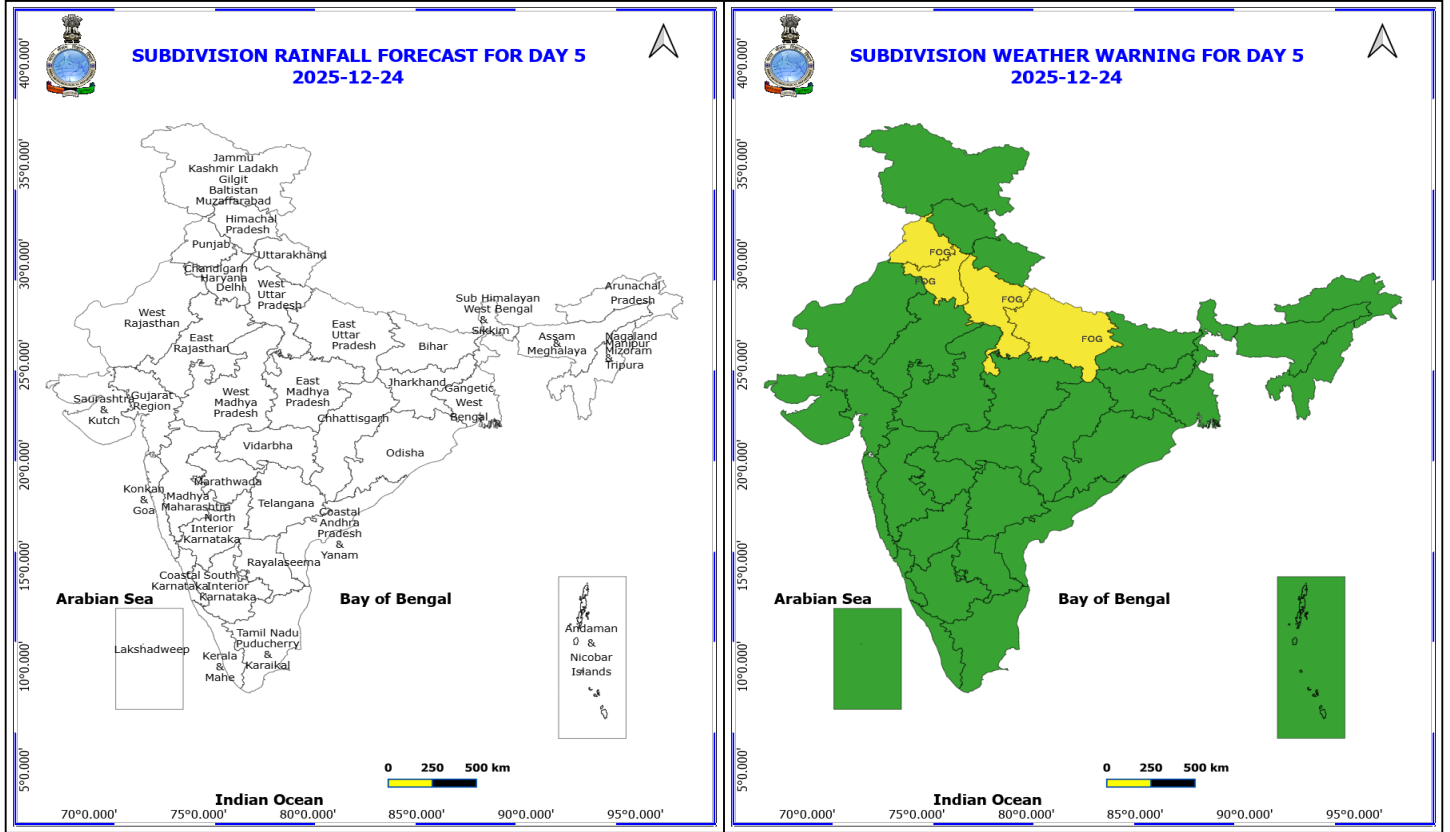
No Fishermen Warning



23 December (Day 4)

❖ **Dense Fog** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram and Tripura, Punjab, Rajasthan, Uttar Pradesh and Uttarakhand.

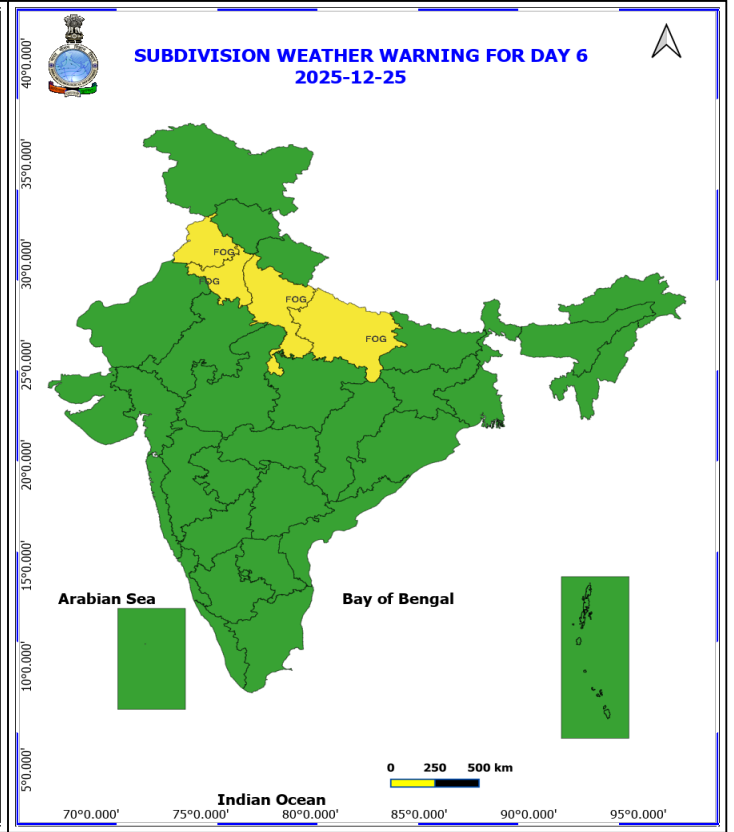
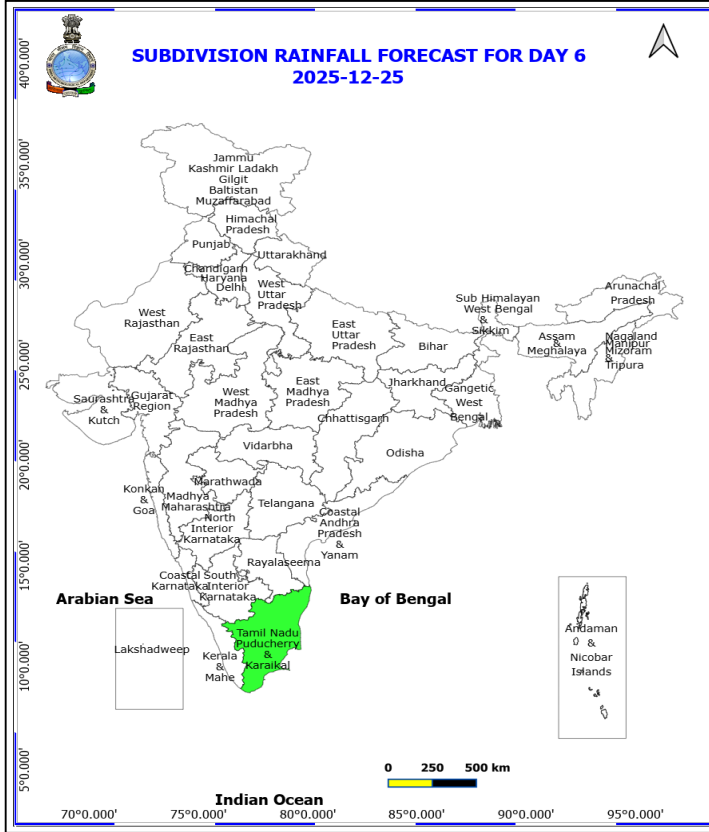
No Fishermen Warning



24 December (Day 5)

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

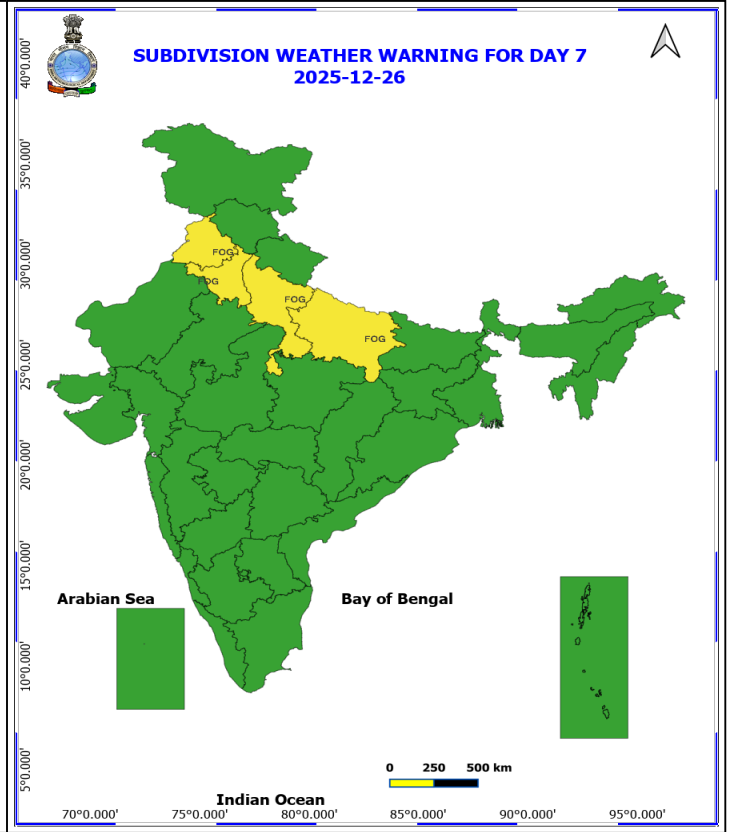
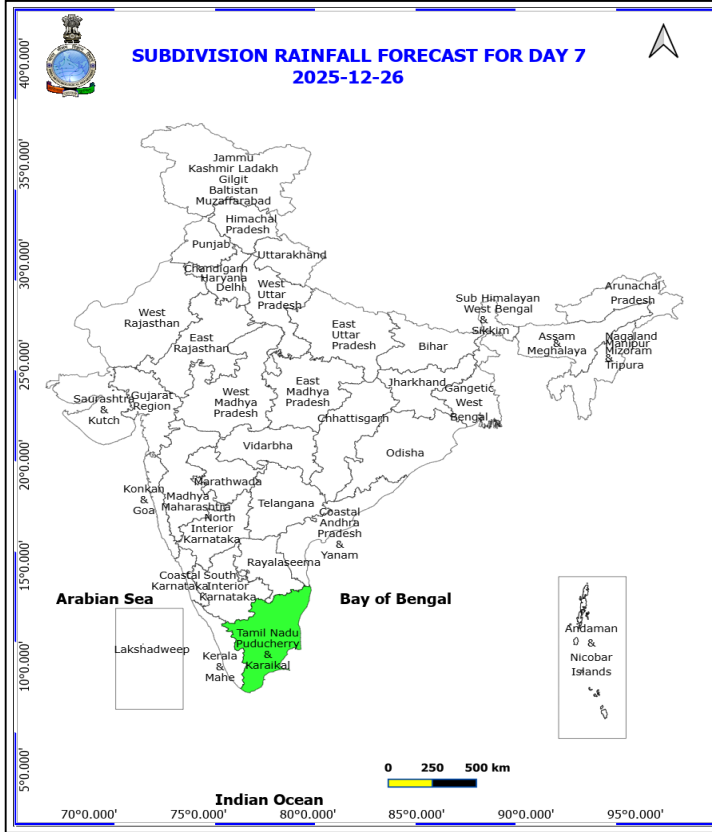
No Fishermen Warning



25 December (Day 6)

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

No Fishermen Warning



26 December (Day 7)

❖ **Dense to Very 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	20- Dec	21- Dec	22- Dec	23- Dec	24- Dec	25- Dec	26- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	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	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	SCT	DRY	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	FWS	WS	SCT	ISOL	DRY	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	DRY	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 2025-12-19

Fig. 2: Departure of Maximum Temp. Dated 2025-12-19

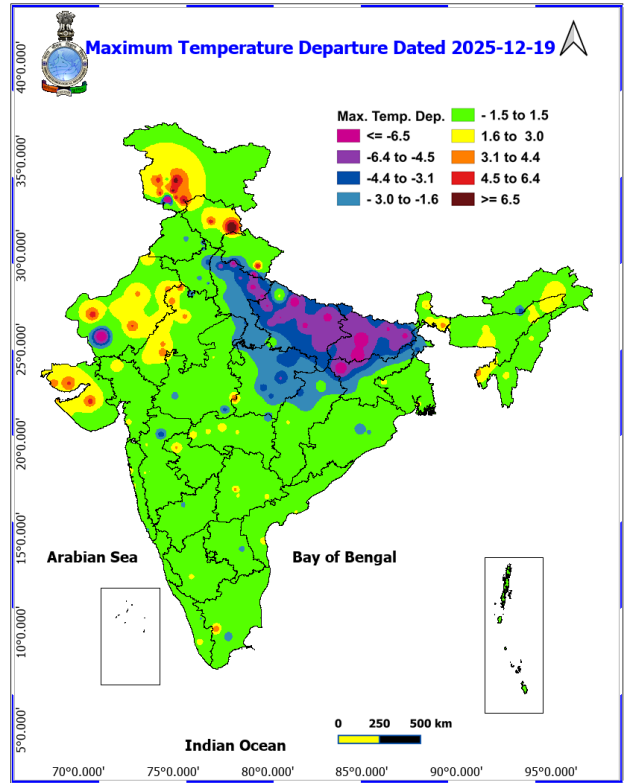
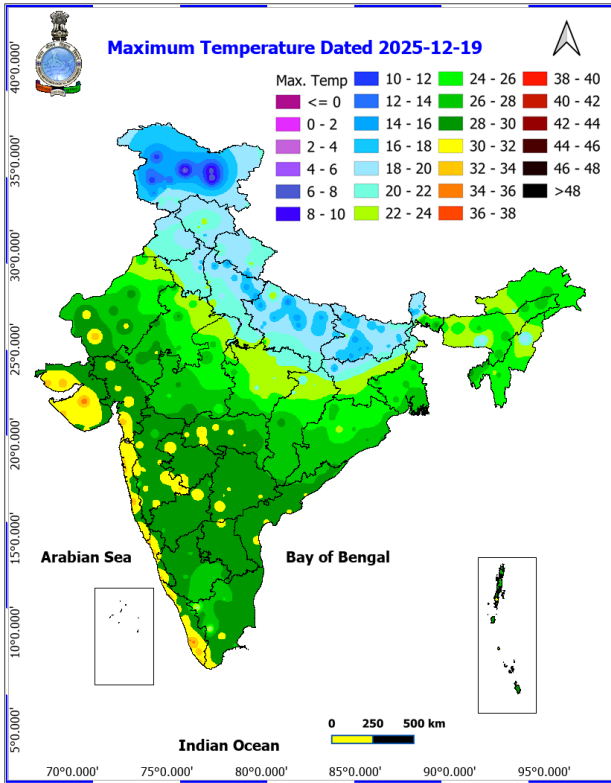
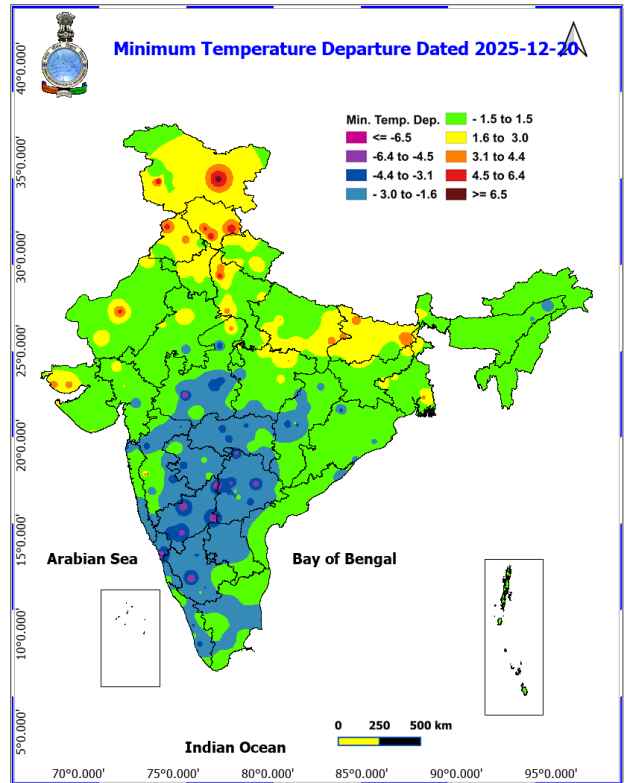
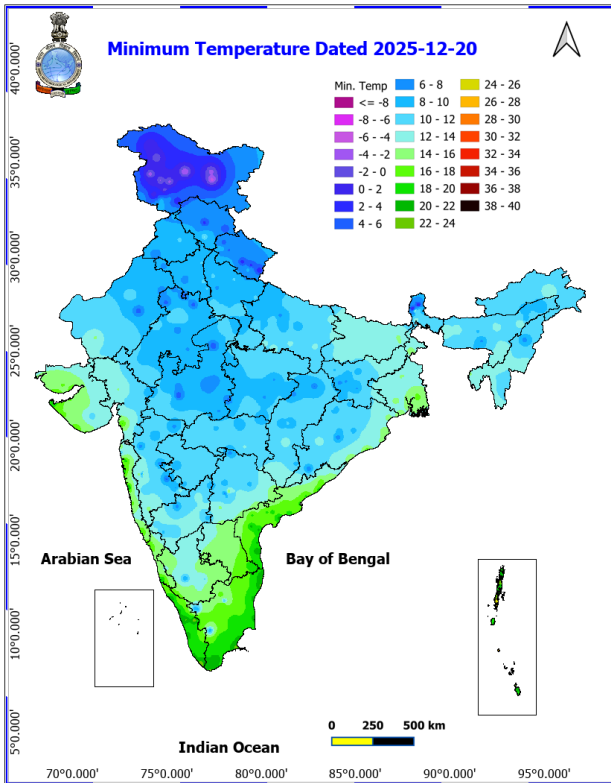
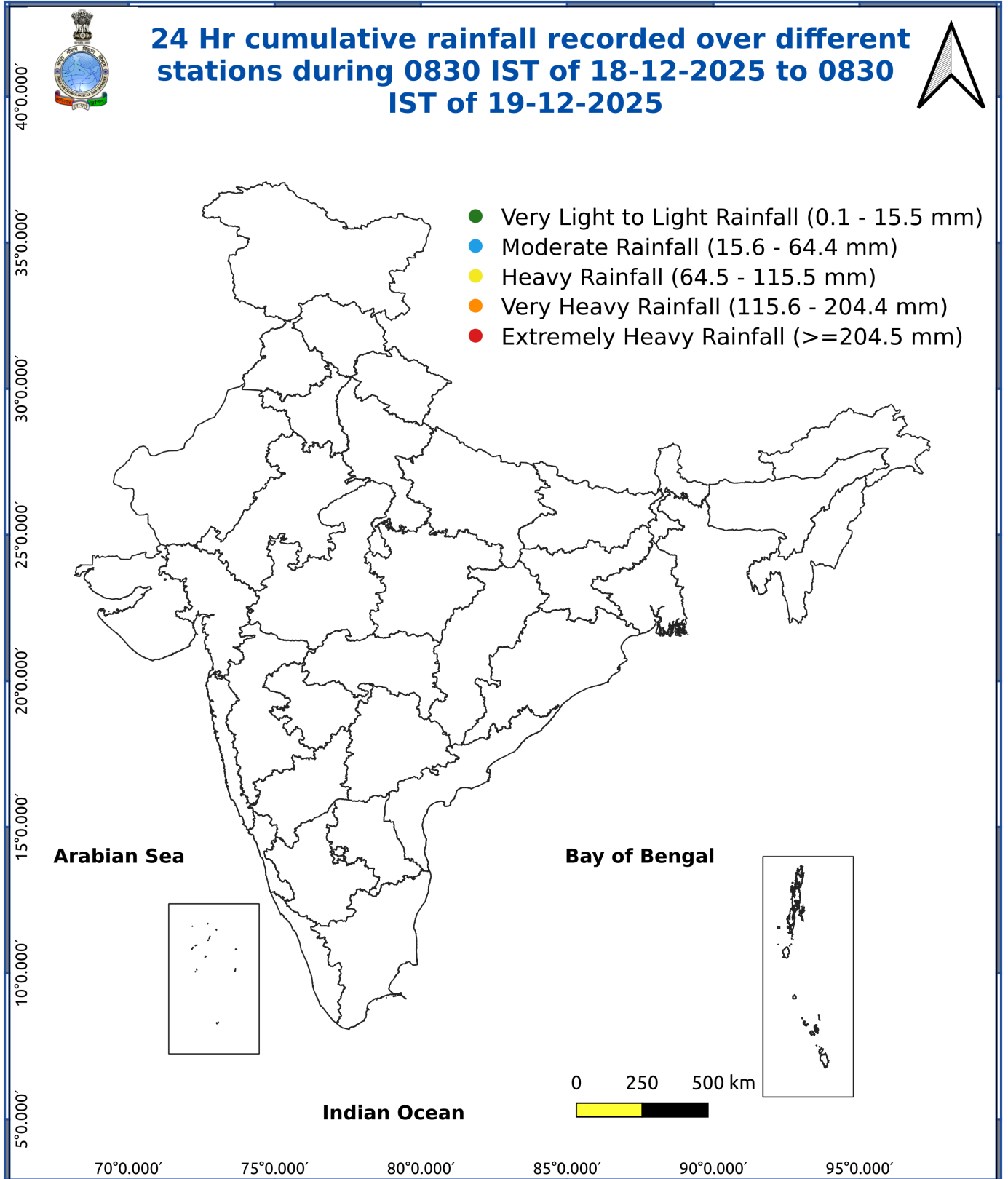


Fig. 3: Minimum Temperatures Dated 2025-12-19

Fig. 4: Departure of Minimum Temp. Dated 2025-12-19





- **Impact expected due to dense/very dense fog in the night/morning hours:** very likely at many places over Punjab till morning hours of 20th December, Uttarakhand, Haryana, Chandigarh, West Uttar Pradesh, north Madhya Pradesh & Bihar till morning hours of 21st December, East Uttar Pradesh till morning hours of 22nd December and at isolated places over Punjab, Haryana & Chandigarh, Uttar Pradesh on 24th & 25th 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 Telangana and South Interior Karnataka on 20th & 21st and over West Madhya Pradesh on 20th December.
- **Cold wave to Severe cold wave conditions** very likely over isolated places over North Interior Karnataka on 20th & 21st 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.

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- 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 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, 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

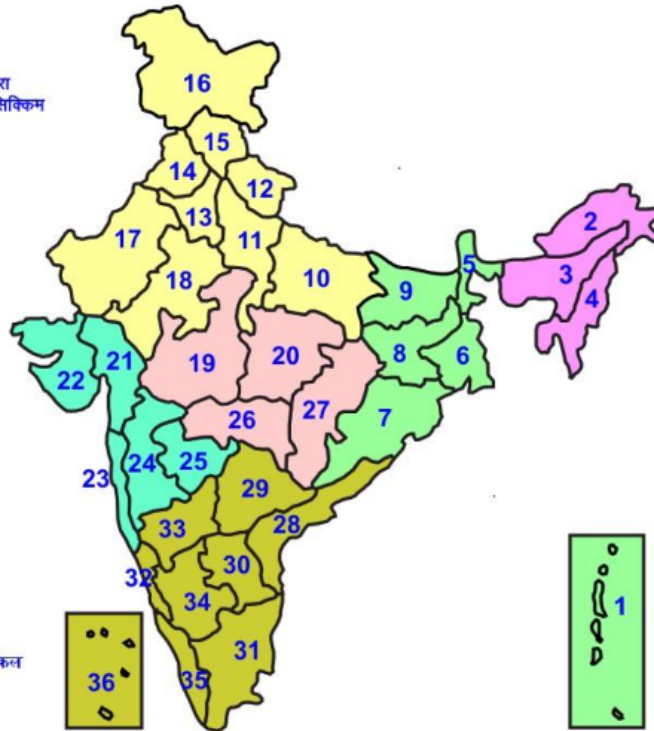
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Legends & 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 Marathwada. **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 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°C to 6.4°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°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°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°C to -6.4°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°C to -6.4°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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