

2025-12-06

Time of Issue: 13:11:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

- Light/moderate isolated rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand on 07th & 08th and Himachal Pradesh on 07th December.
- Light to moderate rainfall at isolated places **accompanied with thunderstorm, lightning** over Tamil Nadu on 06th & 07th and Lakshadweep on 06th December.
- Light to moderate rainfall very likely at many places **accompanied with Thunderstorm, lightning with Gusty Wind speed (30-40 gusting upto 50 kmph)** likely to prevail over Andaman & Nicobar Islands on 06th & 07th December; at a few places on 08th and isolated places during 09th to 12th December.

Forecast of minimum temperatures:

- Rise in minimum temperature likely over many parts of northwest India by 2-3⁰C during next 2 days and fall by 3-5⁰C during subsequent 3 days and no significant change thereafter.
- No significant change in minimum temperature likely over many parts of central India during next 24 hours and rise by about 2⁰C during subsequent 3 days and no significant change thereafter.
- Fall by 2-3⁰C over west India during next 3-4 day and no significant change thereafter.
- No significant change in minimum temperature likely over remaining parts of the country.

Dense Fog & Cold wave warning Warnings:

- **Cold wave conditions** very likely to prevail in isolated pockets over Punjab and Haryana on 7th & during 10th & 11th; over West Madhya Pradesh and Vidarbha on 7th & 8th; over East Madhya Pradesh and Chhattisgarh on 7th; over Jharkhand and Odisha on 7th December.
- **Dense fog conditions** very likely to prevail during early morning hours in isolated pockets of Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 07th-11th; Himachal Pradesh during 07th-09th and over Odisha on 07th & 08th December.

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

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Main Weather Observations:

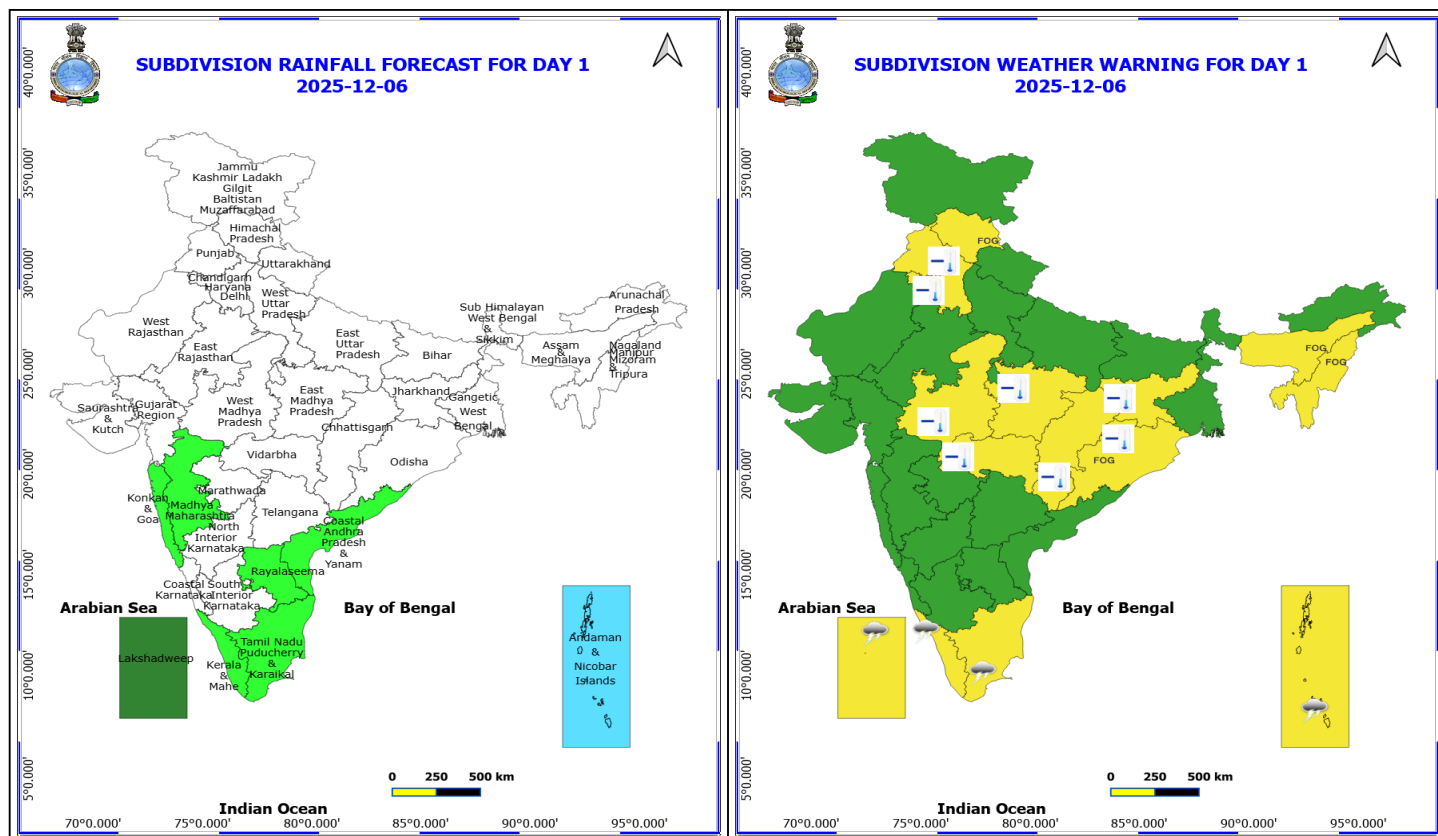
- **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places over** Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Andaman & Nicobar Islands; **at isolated places over** Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and South Interior Karnataka; **Dry** over rest of the country.
- **Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):** **Tamil Nadu, Puducherry & Karaikal:** Kollidam (dist Mayiladuthurai), Oothu (dist Tirunelveli) 5 each, Annamalai Nagar (dist Cuddalore), Nalumukku (dist Tirunelveli), Kakkachi (dist Tirunelveli), Muthupet (dist Thiruvavur), Nagudi (dist Pudukkottai), Manjolai (dist Tirunelveli) 4 each, Adiramapattinam (dist Thanjavur), Chidambaram (dist Cuddalore), Peravurani (dist Thanjavur), Parangipettai (dist Cuddalore), Papanasam (dist Tirunelveli), Avudayarkoil (dist Pudukkottai), Manalmedu (dist Mayiladuthurai), Kannadaian Anicut (dist Tirunelveli) 3 each, Servalar Dam (dist Tirunelveli), Gadana Dam (dist Tenkasi), Manalmedu ARG (dist Mayiladuthurai), Lalpet (dist Cuddalore), Manimutharu (dist Tirunelveli), Nagapattinam (dist Nagapattinam), Pandavaayar Head (dist Thiruvavur), Tiruvavur (dist Thiruvavur), K.M.Koil (dist Cuddalore), Ettayapuram (dist Thoothukudi), Bhuvanagiri (dist Cuddalore), Sirkali (dist Mayiladuthurai), Tiruvavur AWS (dist Thiruvavur), Ayinkudi (dist Pudukkottai), Thiruchuzhi (dist Virudhunagar), Aruppukottai (dist Virudhunagar), Ambasamudram (dist Tirunelveli), Neivasal Thenpathi (dist Thanjavur), Ramnadu KVK AWS (dist Ramanathapuram), Thiruthuraiipoondi (dist Thiruvavur), Kamudhi (dist Ramanathapuram), Needamangalam (dist Thiruvavur), Kodaikannal Boat Club (dist Dindigul) 2 each; **Kerala & Mahe:** Mavelikara (dist Alapuzha) 4, Kayamkulam (dist Alapuzha) 3, Kovilkadavu (dist Idukki) 2, Perumpavur (dist Ernakulam) 2, Haripad (dist Alapuzha) 2;
- **Dense fog (visibility 50-199 m):** reported in isolated pockets of Himachal Pradesh, Odisha and Assam.
- **Visibility reported (>200 m) (in meter):** **Odisha:** Rourkela 50, Koraput and Phulbani 100 each; **Assam:** Jorhat 150 and **Himachal Pradesh:** Bilaspur 100.
- **Cold wave conditions** at isolated places prevailed over Punjab, Haryana and East Uttar Pradesh and **cold wave to severe cold wave conditions** at isolated places over west Madhya Pradesh.
- **Minimum temperatures** were in the range of **less than 5°C** at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at many places over Himachal Pradesh and Punjab; at isolated places over Uttarakhand and East Rajasthan; in the **range of 5°-10°C** at most places over Madhya Pradesh, Uttar Pradesh, Haryana Chandigarh & Delhi; at few places over West Rajasthan; at isolated places over Chhattisgarh, Odisha, Bihar & Jharkhand. **The lowest minimum temperature of 2.2 °C is reported at Adampur (Punjab) over the plains of India.**
- **Minimum Temperature** were markedly below normal (-5.1°C) at isolated places over south Madhya Pradesh, Vidarbha; at appreciably below normal (-3.1°C to -5.0°C) at isolated places over Uttar Pradesh, North Madhya Pradesh, East Rajasthan, North & central Chhattisgarh, North Odisha, western parts of Gangetic West Bengal & southeast Bihar and below normal (-1.6°C to -3.0°C) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Saurashtra & Kutch, north Madhya Maharashtra, Marathwada, south Himachal Pradesh and south Uttarakhand.
- **Minimum Temperatures shown rising tendency by 1-2°C** over many parts of Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh, Saurashtra & Kutch; at a few places over West Rajasthan; at isolated places over east Uttar Pradesh, north & east Bihar, Kerala & adjoining interior Tamil Nadu; **falling tendency by 1-3°C** over many parts of central, east, northeast and north Peninsular India.
- **Maximum Temperature Departures (as on 05-12-2025):** Maximum Temperatures are below normal (-1.6°C to -3.0°C) at most places over West Madhya Pradesh; at many places over Haryana-Chandigarh-Delhi, West Uttar Pradesh, Vidarbha; at a few places over East Madhya Pradesh, Madhya Maharashtra, East Rajasthan; at isolated places over Punjab, East Uttar Pradesh, Chhattisgarh, Marathwada, Telangana, Gujarat Region, Gangetic West Bengal. **The highest maximum temperature of 36.0°C is reported at ALIBAG (MAHARASHTRA).**

Meteorological Analysis (Based on 0830 hours IST)

- The **upper air cyclonic circulation** over east Bangladesh & neighbourhood at 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over south Kerala coast & neighbourhood at 0.9 km above mean sea level persists.
- The **Western Disturbance** as a **trough** in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 55°E to the north of Lat. 30°N.

Weather Outlook for subsequent 3 days

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



6 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 Chhattisgarh, Haryana, Chandigarh & Delhi, Jharkhand, Madhya Pradesh, Odisha, Punjab and Vidarbha.

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

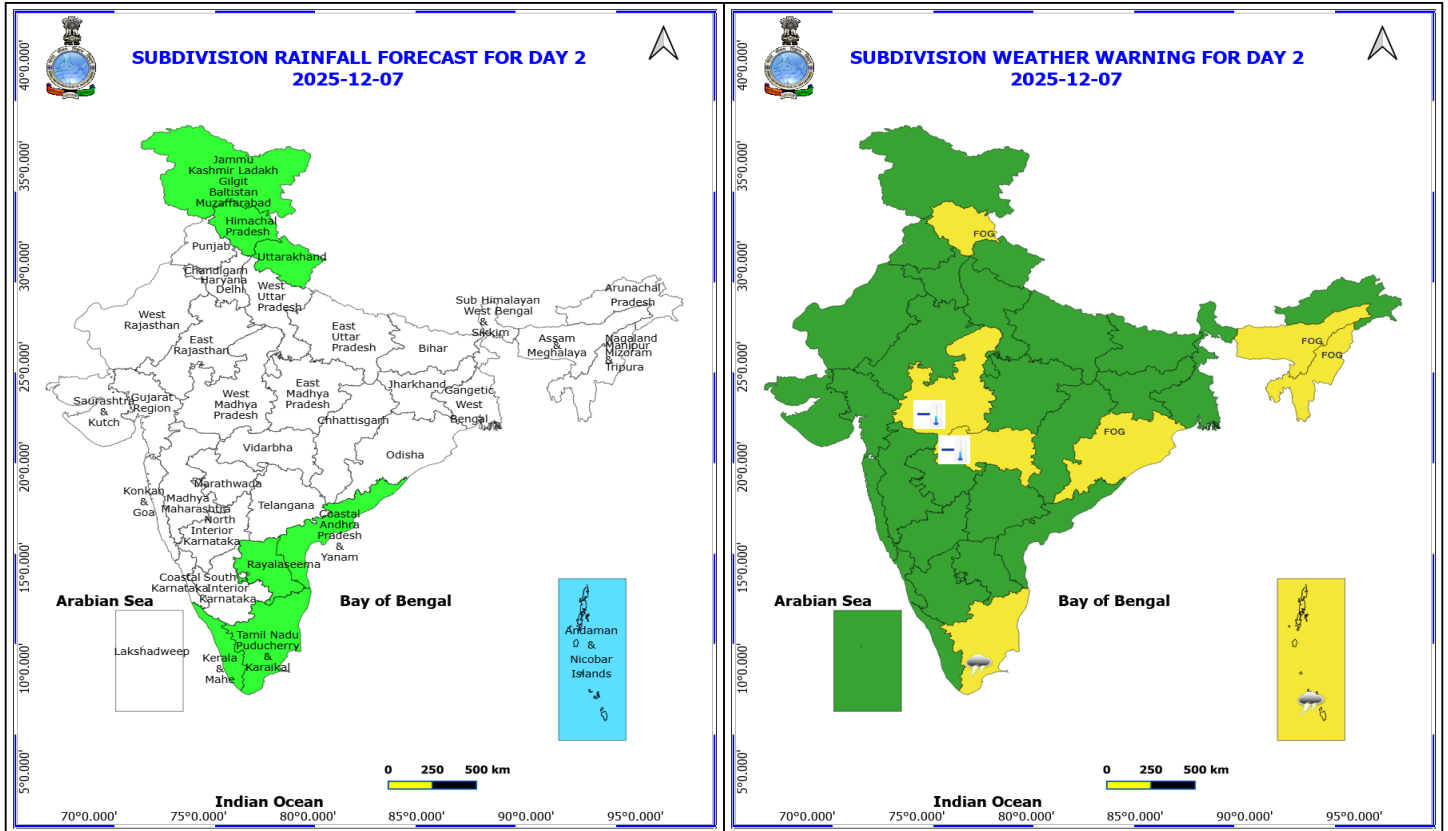
❖ Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over southeast Arabian sea & adjoining eastcentral Arabian Sea, Lakshadweep islands, off Kerala coast and Maldives area.

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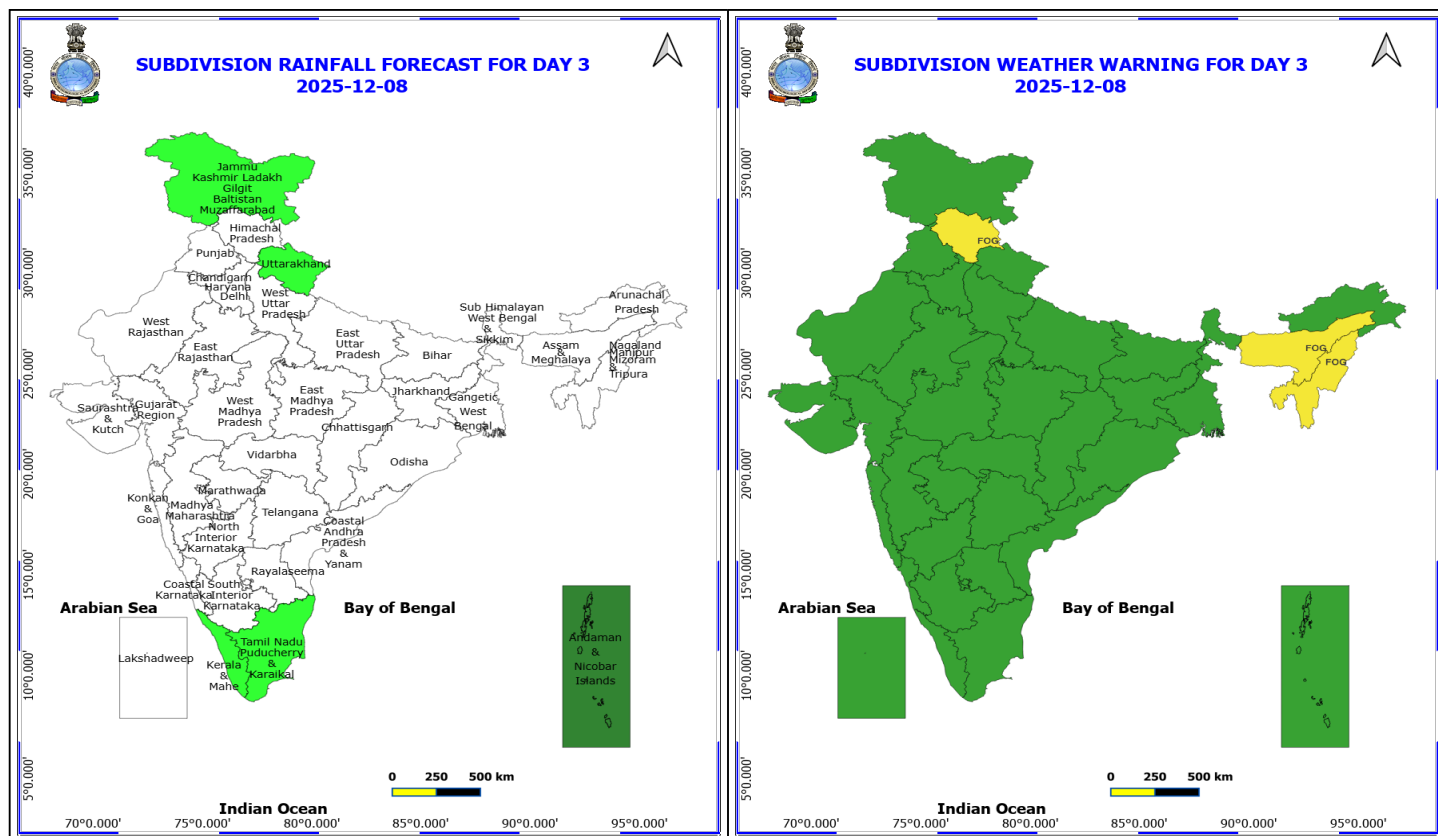
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7 December (Day 2)

- ❖ **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 Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Vidarbha and West Madhya Pradesh.
- ❖ **Dense Fog** very likely at isolated pockets over Assam & Meghalaya, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura and Odisha.

No warning



8 December (Day 3)

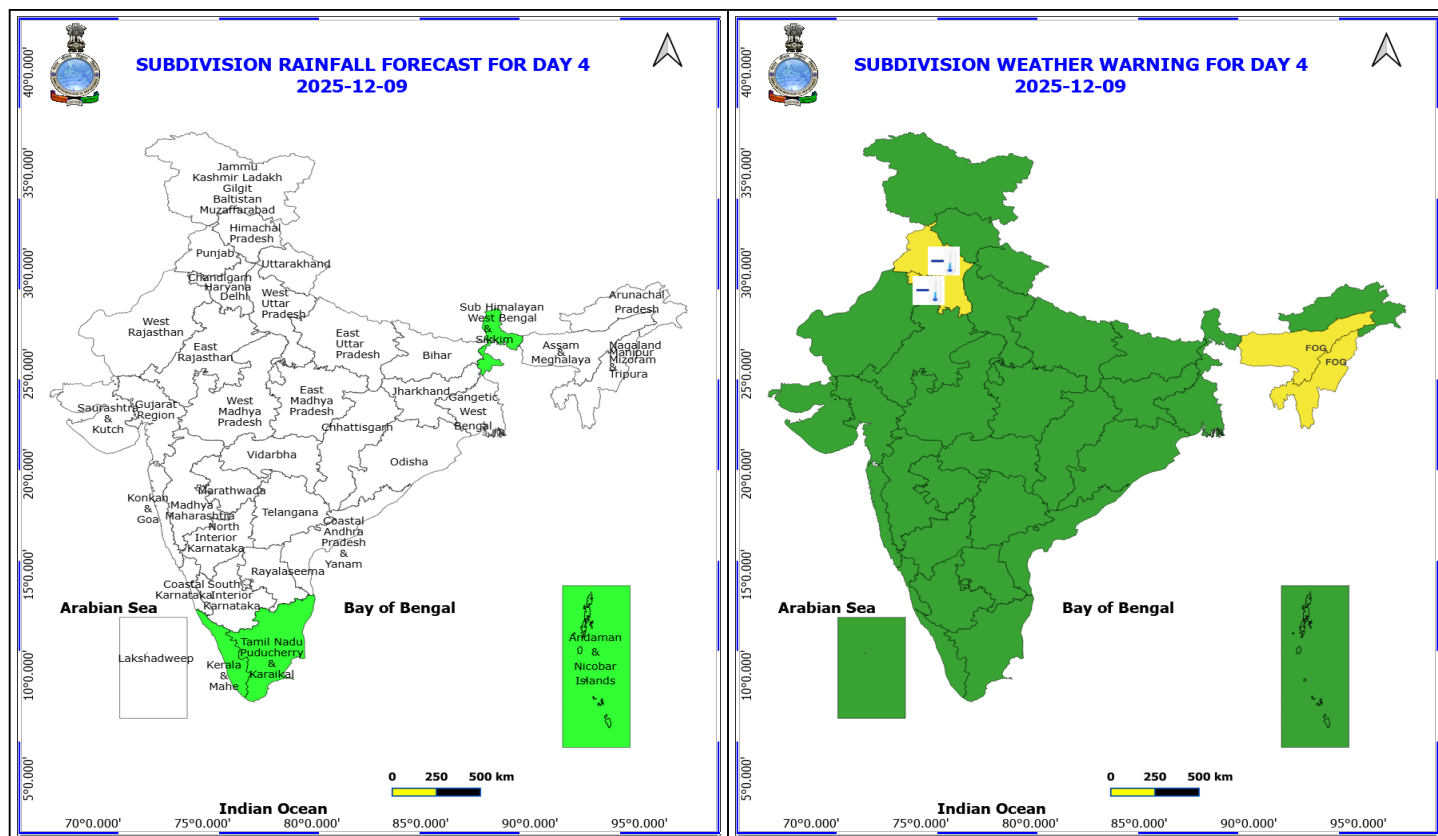
- ❖ **Dense Fog** very likely at isolated pockets over Assam & Meghalaya, Himachal Pradesh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ Squally wind with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over Comorin Area and Gulf of Mannar.

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9 December (Day 4)

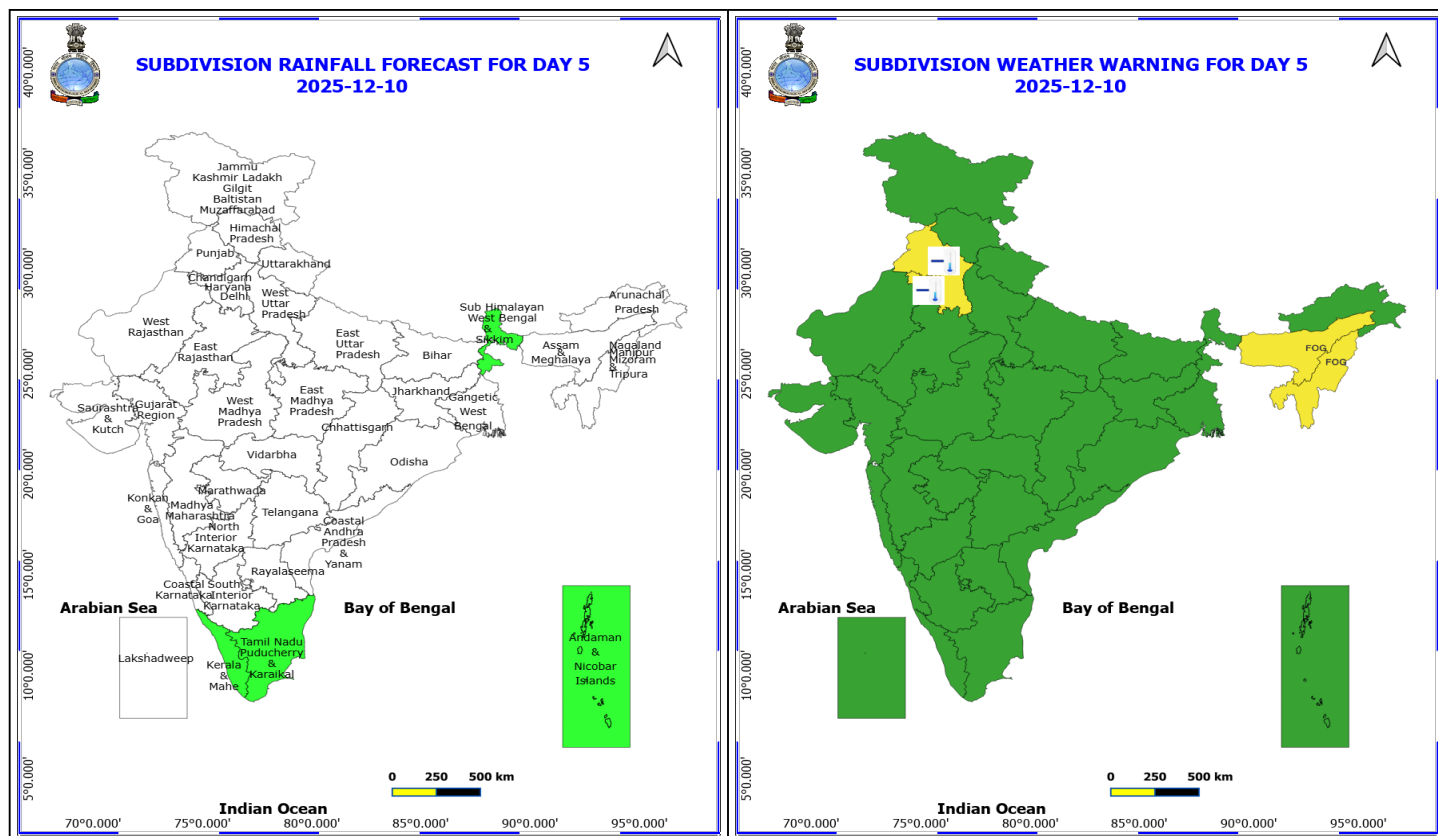
- ❖ **Cold wave conditions** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Dense Fog** likely at isolated pockets over Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ Squally wind with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over Comorin Area and Gulf of Mannar.

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10 December (Day 5)

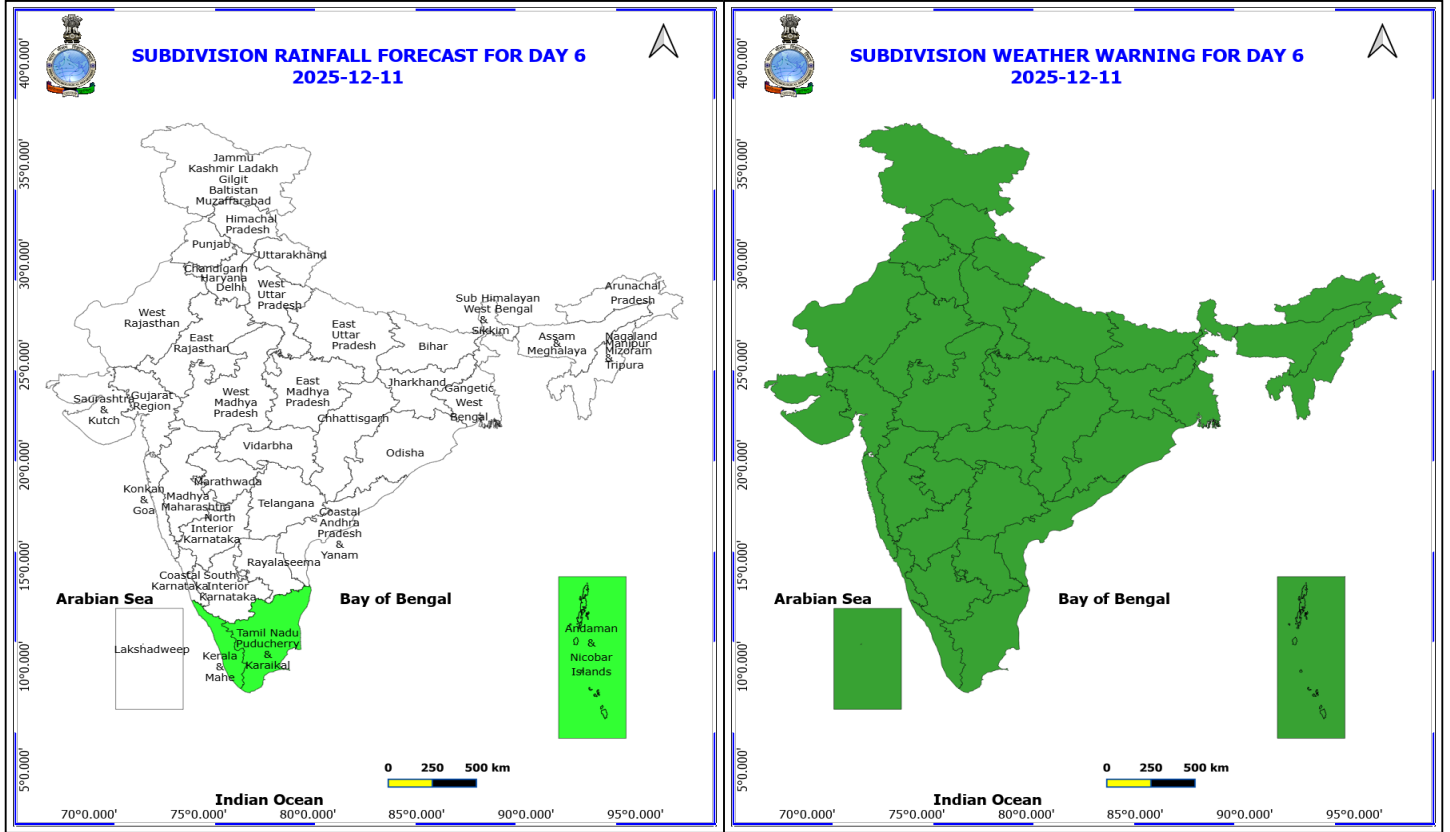
- ❖ **Cold wave conditions** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Dense Fog** likely at isolated pockets over Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ Squally wind with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph is likely to prevail over Comorin Area and Gulf of Mannar.

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11 December (Day 6)

No Warning

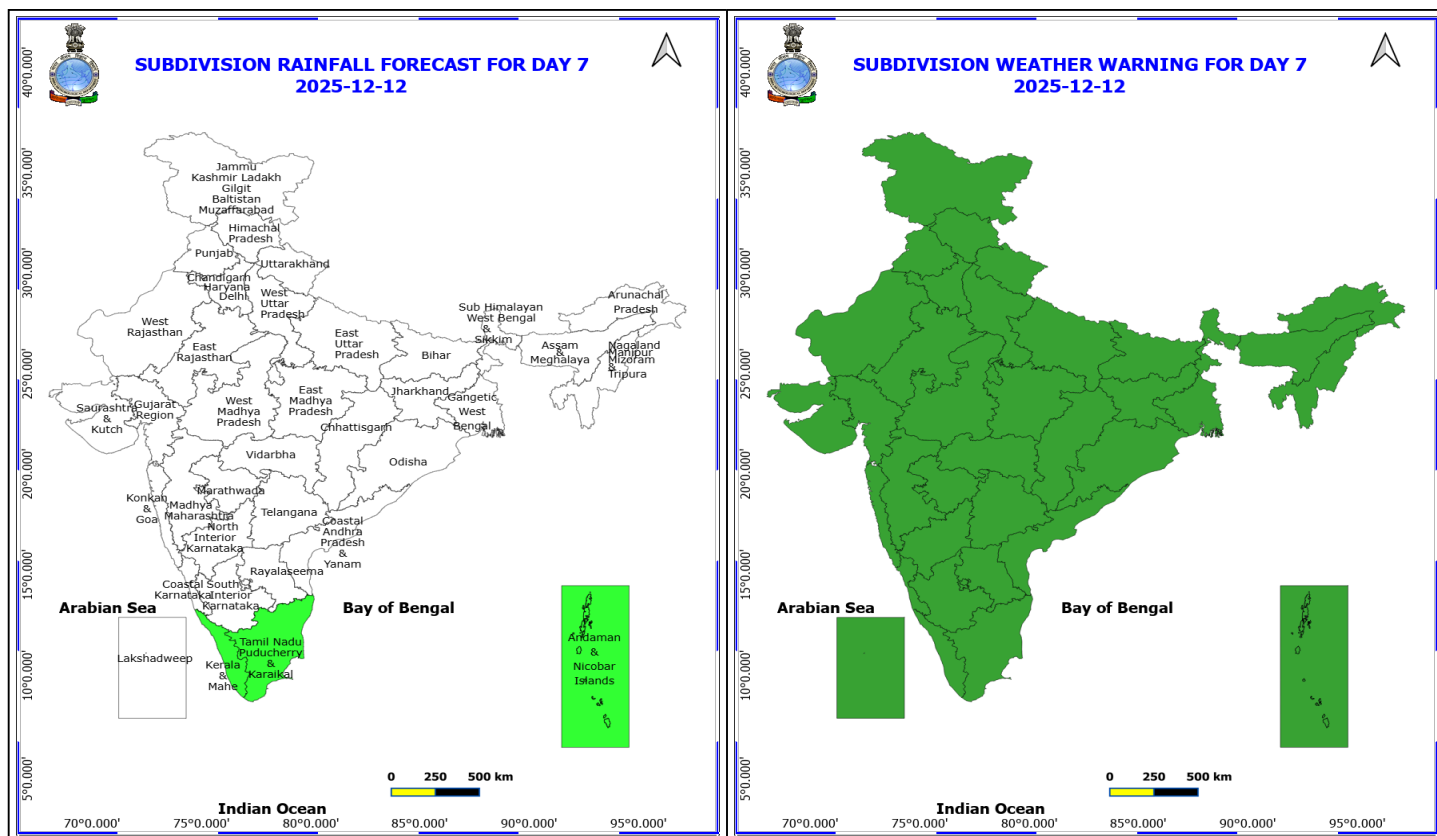
No warning

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12 December (Day 7)

No Warning

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	6- Dec	7- Dec	8- Dec	9- Dec	10- Dec	11- Dec	12- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	SCT	ISOL	ISOL	ISOL	ISOL
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	ISOL	ISOL	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	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	ISOL	ISOL	DRY	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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	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	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	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	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
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 2025-12-05

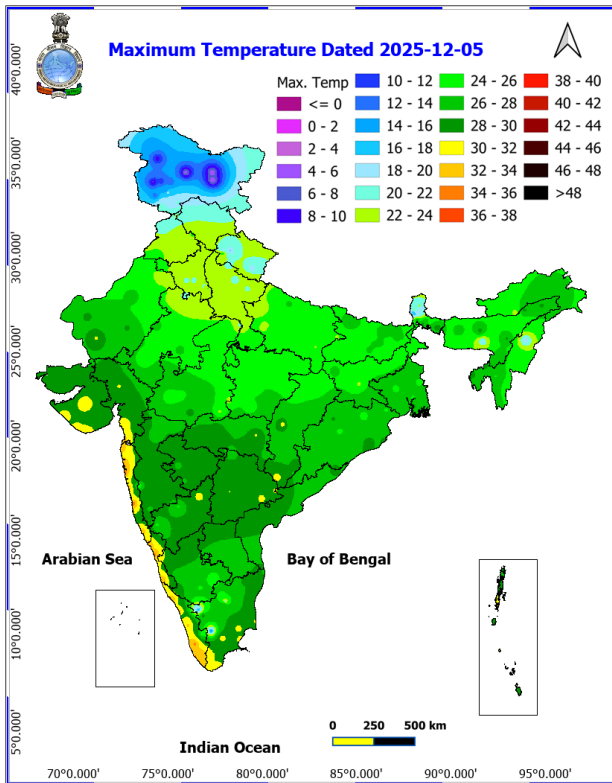


Fig. 2: Departure of Maximum Temp. Dated 2025-12-05

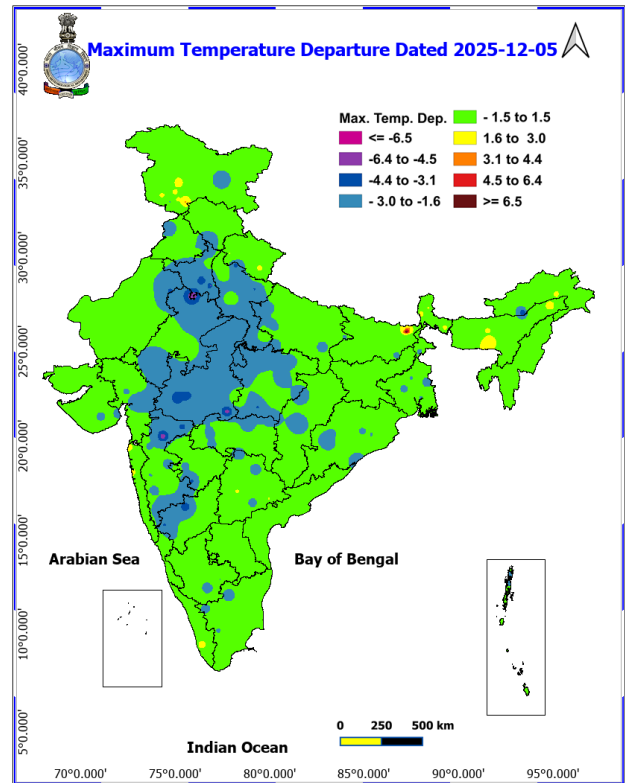


Fig. 3: Minimum Temperatures Dated 2025-12-06

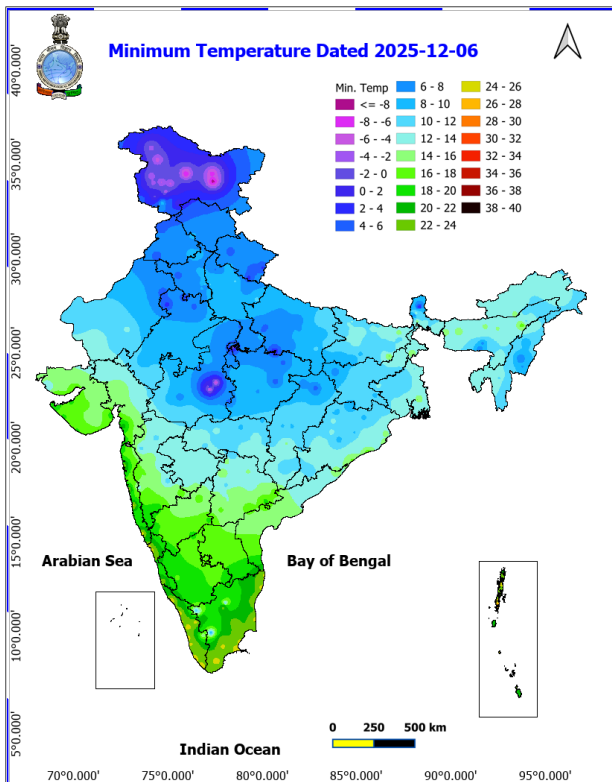
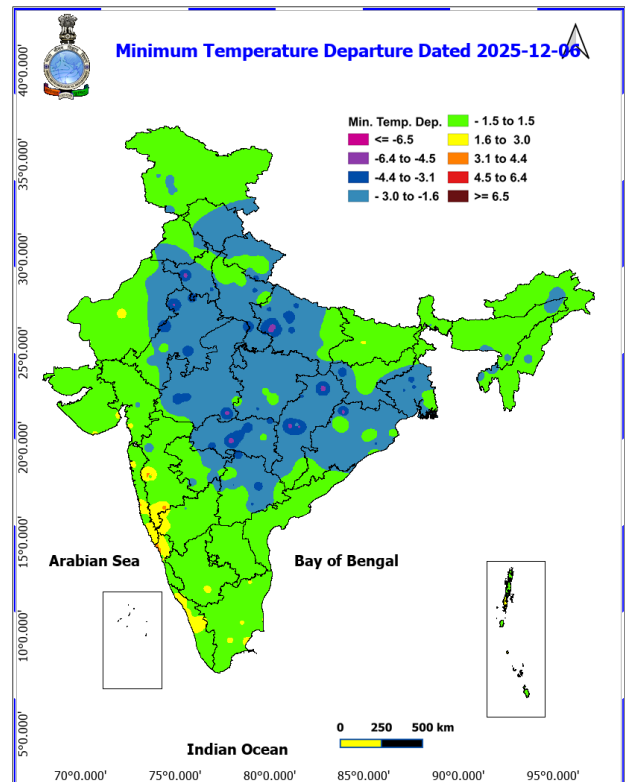
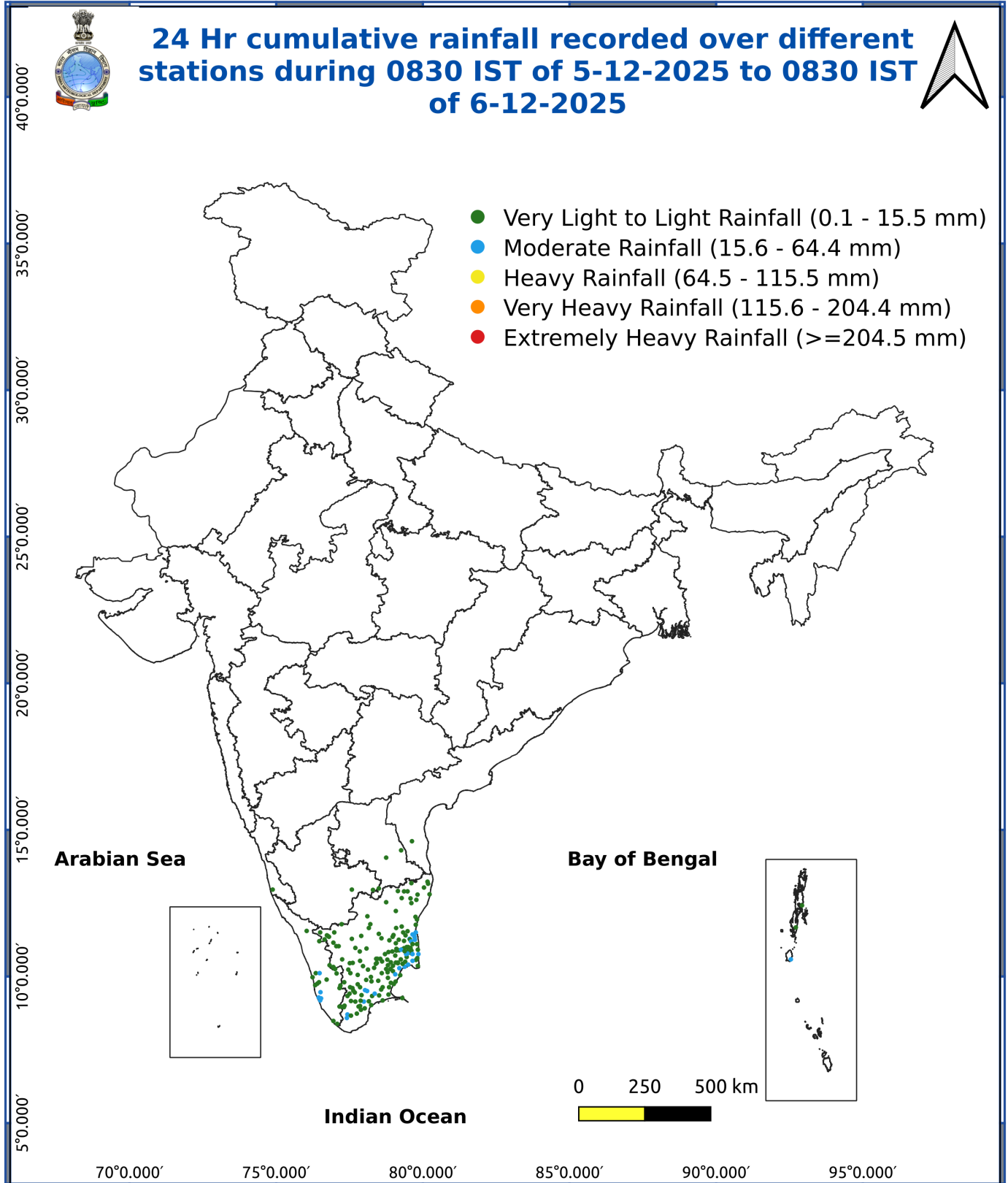


Fig. 4: Departure of Minimum Temp. Dated 2025-12-06





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Impact expected due to Cold Wave conditions at isolated pockets over Punjab and Haryana on 7th, 10th & 11th; over West Madhya Pradesh and Vidarbha on 7th & 8th; over East Madhya Pradesh, Chhattisgarh, Jharkhand and Odisha on 7th December..

Impact expected:

- An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or get aggravated due to prolonged exposure to cold.
- Do not ignore shivering. It is the first sign that the body is losing heat. Get Indoors.
- Frostbite can occur due to prolonged exposure to cold. The skin turns pale, hard and numb and eventually black blisters appear on exposed body parts such as fingers, toes, nose and or earlobes. Severe frostbite needs immediate medical attention and treatment.
- Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

Action suggested:

- Wear several layers of loose fitting, light weight; warm woollen clothing.
- Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm 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 **Punjab, Haryana, Odisha, Jharkhand, Madhya Pradesh, Vidarbha and Chhattisgarh** 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.

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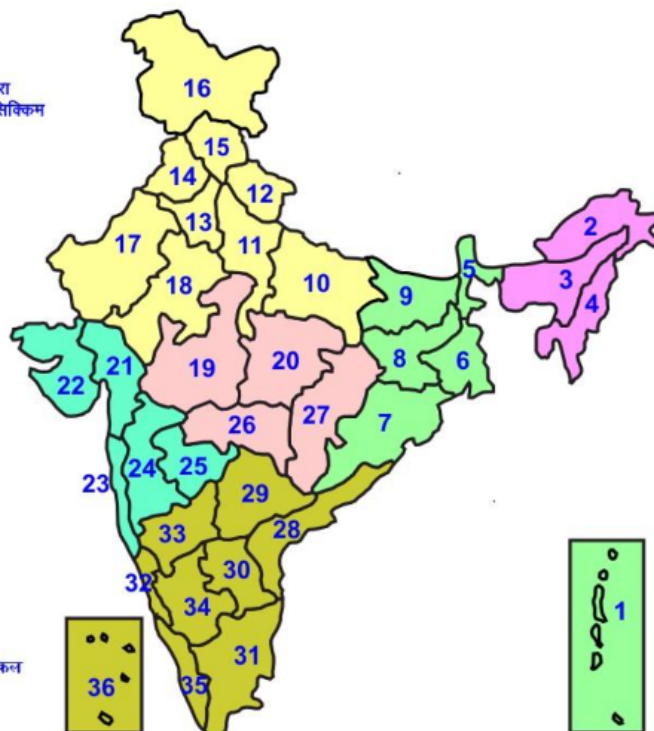
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LEGENDS

- 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 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 कोकण 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 Fog

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

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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 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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