

2026-01-04

Time of Issue: 13:40:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and warning

- **Isolated light/moderate** rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 4th -6th; Himachal Pradesh on 5th & 6th January 2026, and Uttarakhand on 6th January 2026.
- **Ground frost** very likely at isolated places over Uttarakhand on 5th & 6th January 2026.

Forecast of minimum temperatures:

- No significant change in minimum temperature likely over northwest India during next 2 days, gradual fall by 2-3°C likely during subsequent 2 days and no significant change thereafter.
- Gradual fall in minimum temperatures by 2-4°C likely over Central and East India during next 3 days and no significant change thereafter for next 4 days.
- No significant change in minimum temperature likely over Maharashtra during next 24 hours, gradual fall by 2-3°C likely during subsequent 4 days.
- Gradual rise in minimum temperature by 2-3°C likely over Gujarat state during next 5 days and no significant change thereafter.
- No significant change in minimum temperature likely over remaining parts of India.

Dense Fog, Cold day & Cold wave Warnings:

- **Dense to Very dense** fog conditions very likely to continue during night/morning hours at some places over Punjab, Haryana, Chandigarh till 07th; over east Uttar Pradesh till 08th; at isolated places over west Uttar Pradesh till 05th; over Madhya Pradesh and Odisha till 6th January, 2026.
- **Dense fog** conditions also likely during night/morning hours in isolated/ some pockets Himachal Pradesh and Uttarakhand till 9th; over Punjab, Bihar, Uttar Pradesh, Haryana Chandigarh till 11th; over West Rajasthan, and Jharkhand till 6th; Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim and East Rajasthan till 7th, Madhya Pradesh and Odisha till 8th; Chhattisgarh and Gangetic West Bengal till 5th January 2026.
- **Cold day conditions** very likely at isolated pockets over Uttarakhand, Punjab, Haryana Chandigarh, West Madhya Pradesh and Bihar on 4th & 5th; over East Rajasthan and East Uttar Pradesh on 4th January 2026.
- **Cold wave** conditions very likely in isolated pockets of Punjab, Haryana, Chandigarh during 5th -8th; over West Rajasthan during 5th -9th; over East Rajasthan during 5th -10th; over Jharkhand on 6th -7th January 2026.

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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 Lakshadweep; **at isolated places** over Arunachal Pradesh, Sub Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Sub Himalayan West Bengal & Sikkim**: Jhallong (dist Kalimpong) 3; Majitar (dist Pakyong), Buxaduar (dist Alipurduar), Khanitar (dist Pakyong), Shipgyar (dist Mangan), Jiti T.e. (dist Jalpaiguri) 1 Each; **Lakshadweep**: Minicoy (dist Lakshadweep) 2.
- ❖ **Fog Condition Observed (at 0830 hours of today)**: **Dense fog conditions** prevailed in some parts over Uttar Pradesh, west Madhya Pradesh and Punjab; at isolated places over Uttarakhand and West Rajasthan **dense fog** prevailed in isolated pockets of Assam & Meghalaya, Tripura, Sub-Himalayan West Bengal & Sikkim, Bihar, East Rajasthan, Madhya Pradesh and Chhattisgarh.
- ❖ **Visibility reported (at 0830 hours of today)**: **Assam & Meghalaya**: Barapani (100), Dhubri(100); **Tripura**: Agartala (50); **Sub-Himalayan West Bengal & Sikkim**: Malda(50); **Bihar**: Valmikinagar (50); **Himachal Pradesh**: Sundernagar; **Uttarakhand**: Pantnagar (0), Khatima (10), Roorkee (20), Kashipur (50); **West Uttar Pradesh**: Agra(IAF) & Sarsawa(IAF)(0) each; **East Uttar Pradesh**: Kanpur(IAF)(0), Fatehgarh-(40), Ayodhya, Lucknow(A/P) & Bahraich-(50) each, Kanpur(City)-(60); **West Rajasthan**: Ganganagar(30); **East Rajasthan**: Kota, Udaipur – (100) each; **West Madhya Pradesh**: Gwalior (0), Ujjain, Indore (100) each; **East Madhya Pradesh**: Jabalpur (50).
- ❖ **Cold day to severe cold day conditions** prevailed in isolated parts of East Uttar Pradesh with cold day conditions prevailed at isolated places over Himachal Pradesh, Punjab, Haryana Chandigarh.
- ❖ **Minimum Temperature Departures were below normal (-3.0°C to -1.6°C)** at many places over Uttar Pradesh; isolated places over West Madhya Pradesh, east Rajasthan, Vidarbha, Gangetic West Bengal, Assam & Meghalaya and Tripura. **The lowest minimum temperature** of 2.5°C was observed **at Sikar (East Rajasthan)** over the plains of India.
- ❖ **Maximum Temperature Departures (as on 03-01-2026): below normal (-1.6°C to -3.0°C)** at few places over West Uttar Pradesh; at isolated places over East Uttar Pradesh and East Rajasthan. **appreciably below normal (-5.0°C to -3.1°C)** at isolated places over Odisha. **markedly below normal (< -5.0°C)** at most places over Himachal Pradesh. **The highest maximum temperature** of 33.6°C is reported at KOCHI (CIAL) (KERALA).

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Meteorological Analysis (Based on 0830 hours IST)

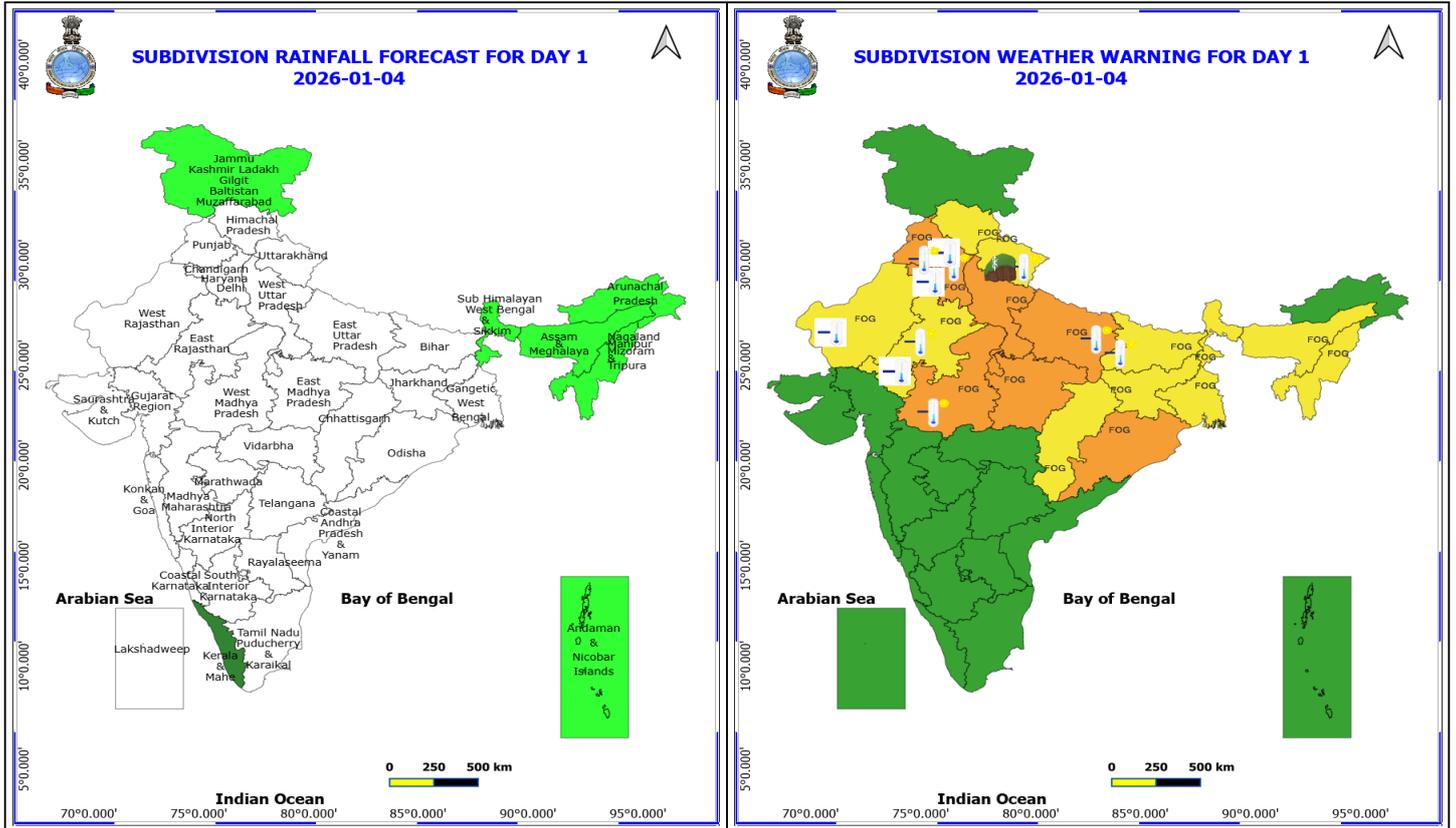
- The **upper air cyclonic circulation** over east Bangladesh and neighbourhood at 1.5 km above mean sea level persists.
- The **Western Disturbance** seen as a trough in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along 68°E to north of 35°N.
- **Subtropical westerly Jet Stream** with core winds of the order of 150 knots at 12.6 km above mean sea level continues to prevail over northwest India.
- The upper **air cyclonic circulation** over southeast Arabian sea and adjoining South Kerala coast at 0.9 km above mean sea level persists.
- The upper **air cyclonic circulation** over southeast Bay of Bengal and adjoining southwest Bay of Bengal and Equatorial Indian ocean extending upto 5.8 km above mean sea level persists.
- The **upper air cyclonic circulation** over northeast Assam & neighbourhood at 3.1 km above mean sea level has become less marked.

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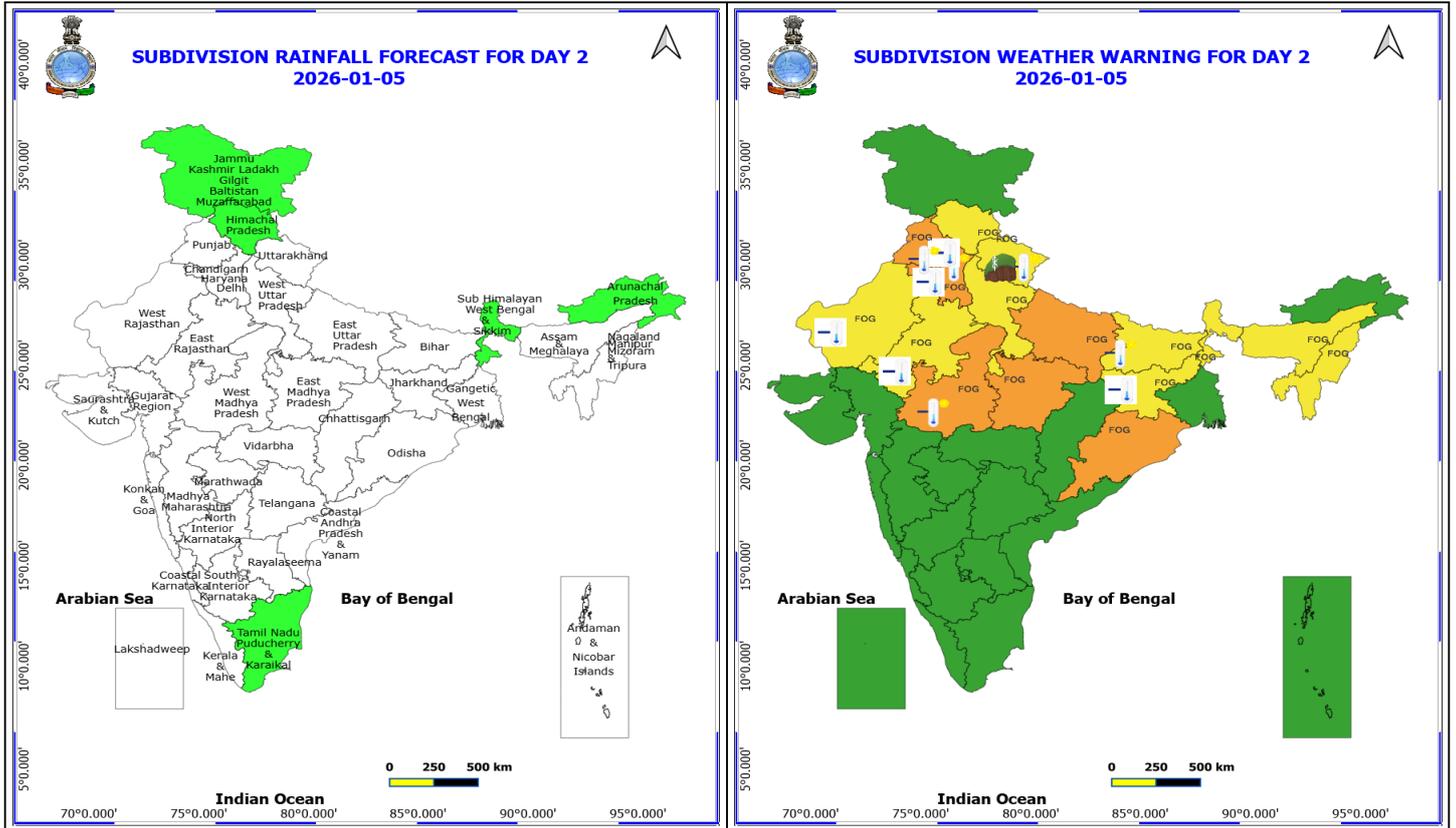
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4 January (Day 1)

- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Rajasthan.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar, East Rajasthan, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Uttarakhand and West Madhya Pradesh.
- ❖ **Ground Frost** very likely at isolated places over Uttarakhand.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, Chhattisgarh, Himachal Pradesh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Rajasthan, Uttarakhand and West Bengal & Sikkim.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Madhya Pradesh, Odisha, Punjab and Uttar Pradesh.
- ❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail along and off Sri Lanka coast, over most parts of southwest Bay of Bengal & adjoining, many parts of southeast Bay of Bengal.
- ❖ **Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia coast and adjoining sea areas, over Gulf of Mannar and adjoining Comorin area.

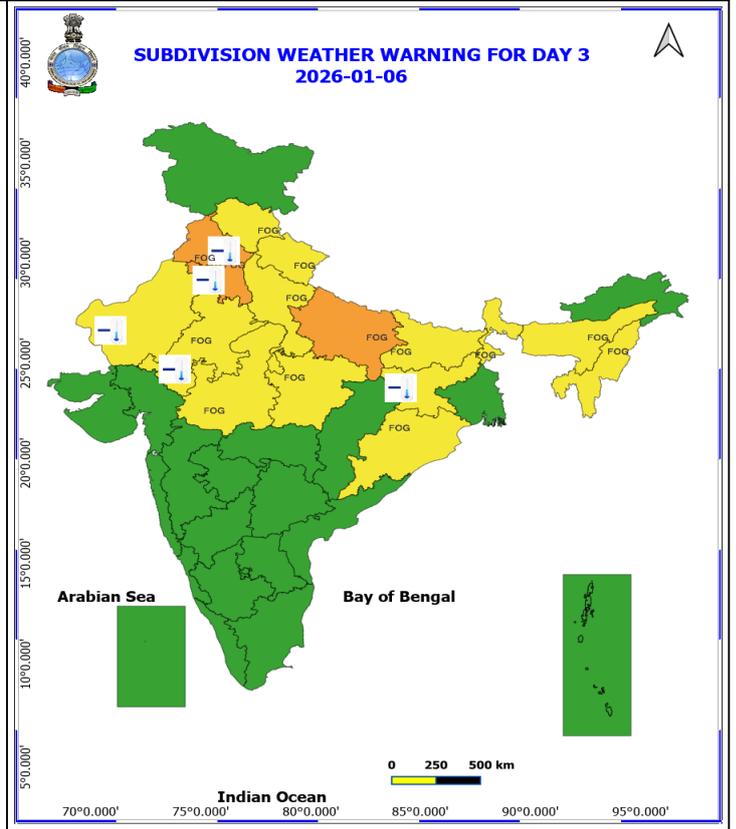
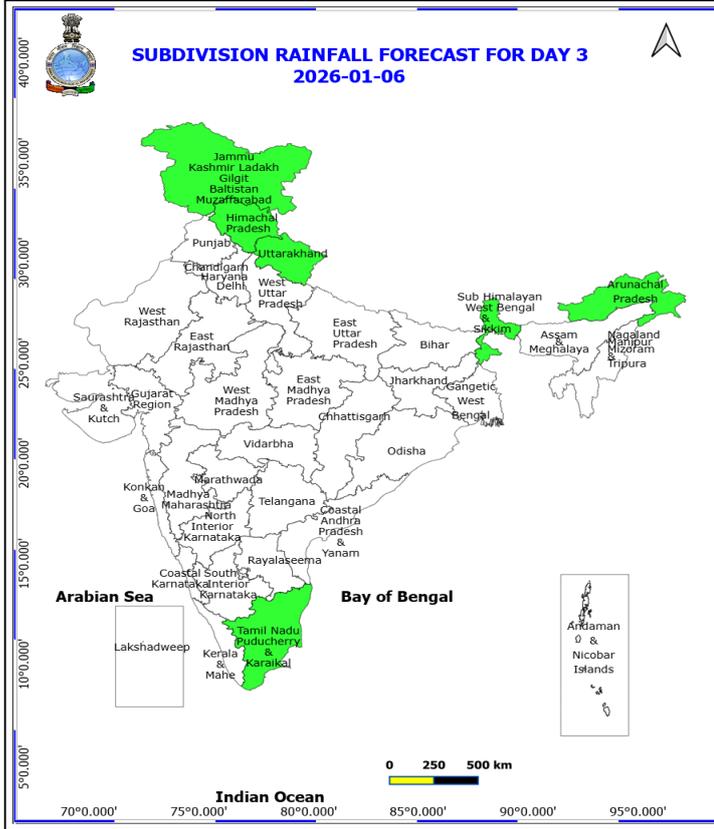
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5 January (Day 2)

- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Jharkhand, Punjab and Rajasthan.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab, Uttarakhand and West Madhya Pradesh.
- ❖ **Ground Frost** very likely at isolated places over Uttarakhand.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, Himachal Pradesh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Rajasthan, Sub Himalayan West Bengal & Sikkim, Uttarakhand and West Uttar Pradesh.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over East Uttar Pradesh, Haryana, Chandigarh & Delhi, Madhya Pradesh, Odisha and Punjab.
- ❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail along and off Sri Lanka coast, over most parts of southwest Bay of Bengal & adjoining, many parts of southeast Bay of Bengal.
- ❖ **Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia coast and adjoining sea areas, over Gulf of Mannar and adjoining Comorin area.

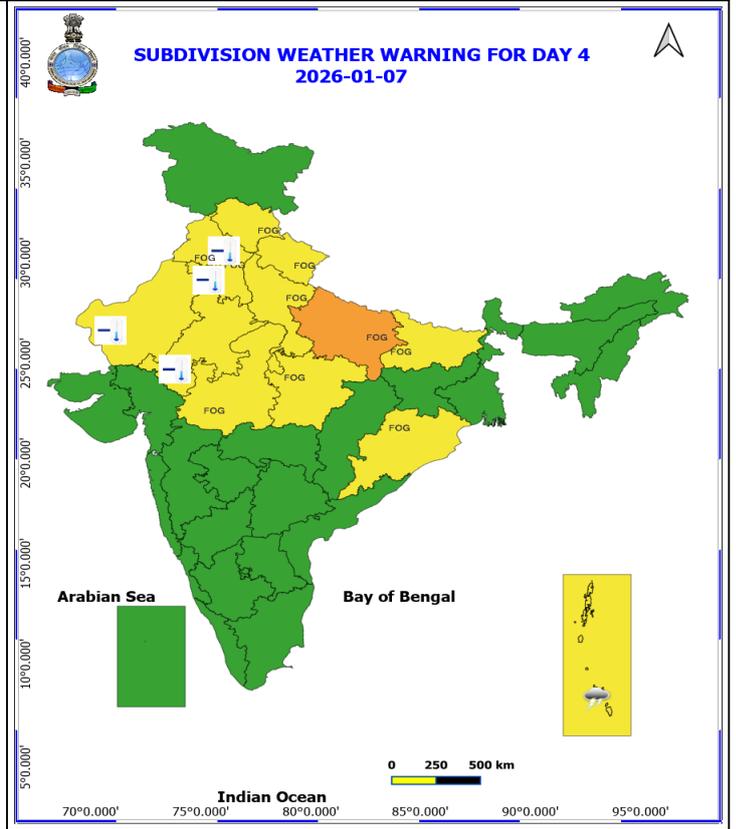
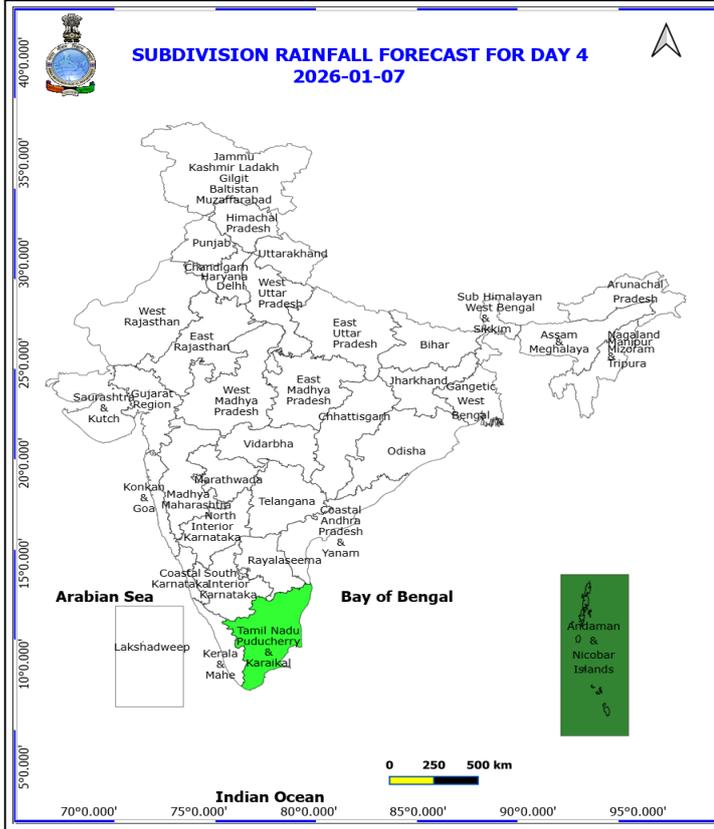
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6 January (Day 3)

- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Jharkhand, Punjab and Rajasthan.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, East Rajasthan, Himachal Pradesh, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha, Sub Himalayan West Bengal & Sikkim, Uttarakhand and West Uttar Pradesh.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over East Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail along and off Sri Lanka coast, over many parts of southwest Bay of Bengal & adjoining, many parts of southeast Bay of Bengal.
- ❖ **Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia coast and adjoining sea areas, over Gulf of Mannar and adjoining Comorin area.

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7 January (Day 4)

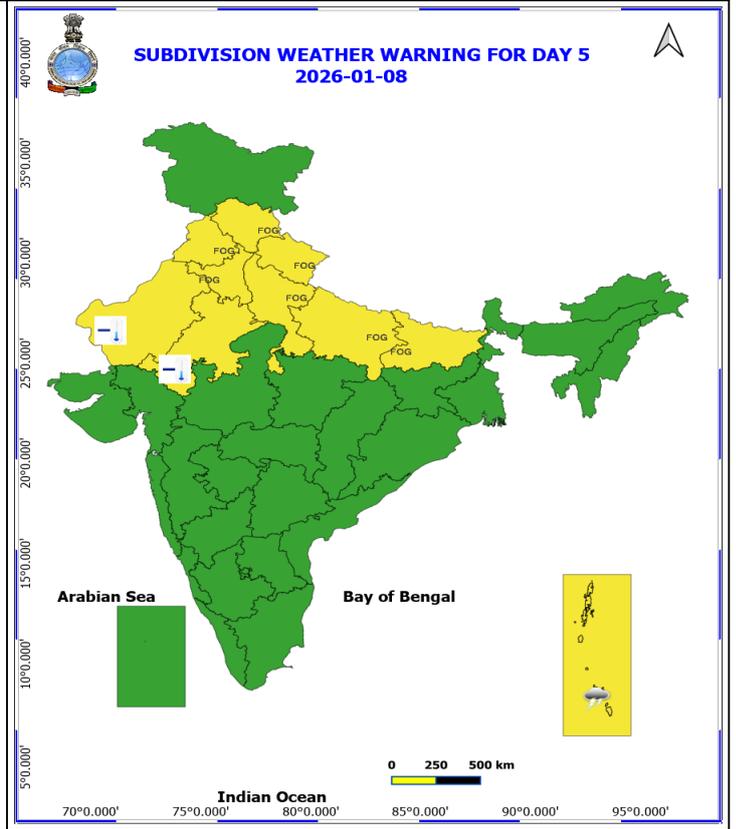
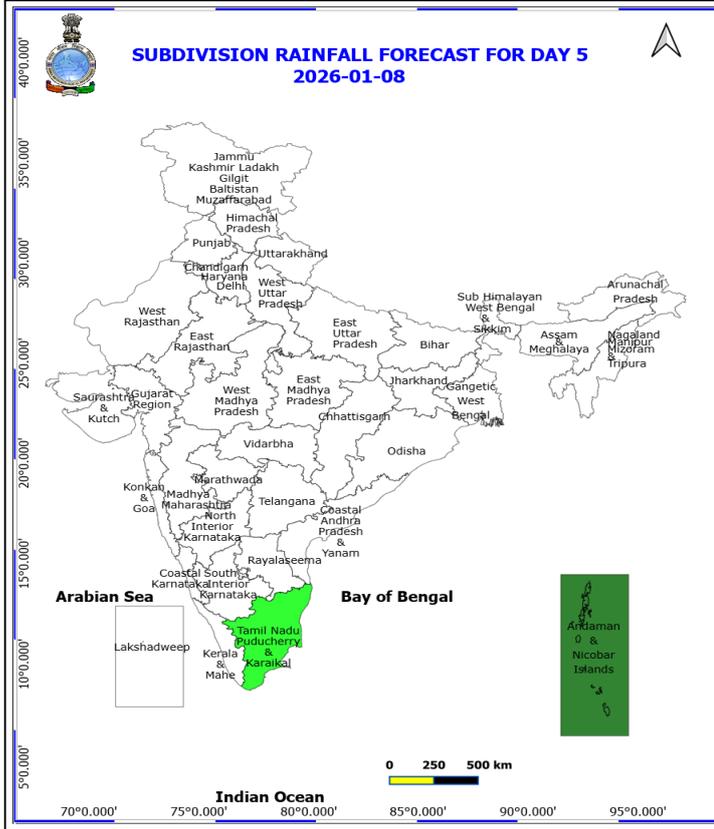
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold wave conditions** likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Rajasthan.
- ❖ **Dense Fog** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Madhya Pradesh, Odisha, Punjab, Uttarakhand and West Uttar Pradesh.
- ❖ **Dense to Very Dense Fog** likely at isolated places over East Uttar Pradesh.
- ❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail along and off Sri Lanka coast, over many parts of southwest Bay of Bengal & adjoining, many parts of southeast Bay of Bengal.
- ❖ **Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia coast and adjoining sea areas, over Gulf of Mannar and adjoining Comorin area.

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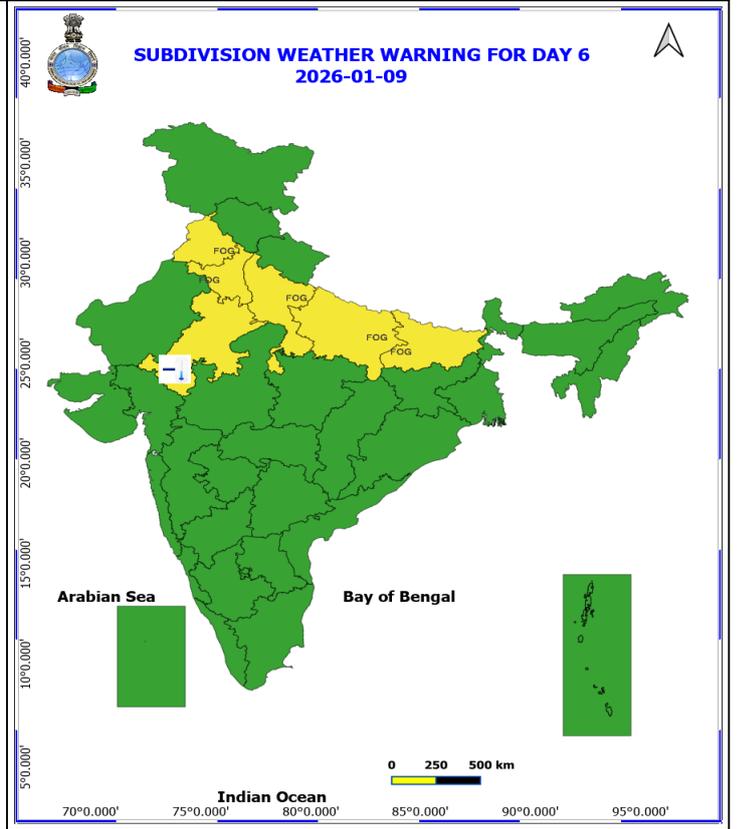
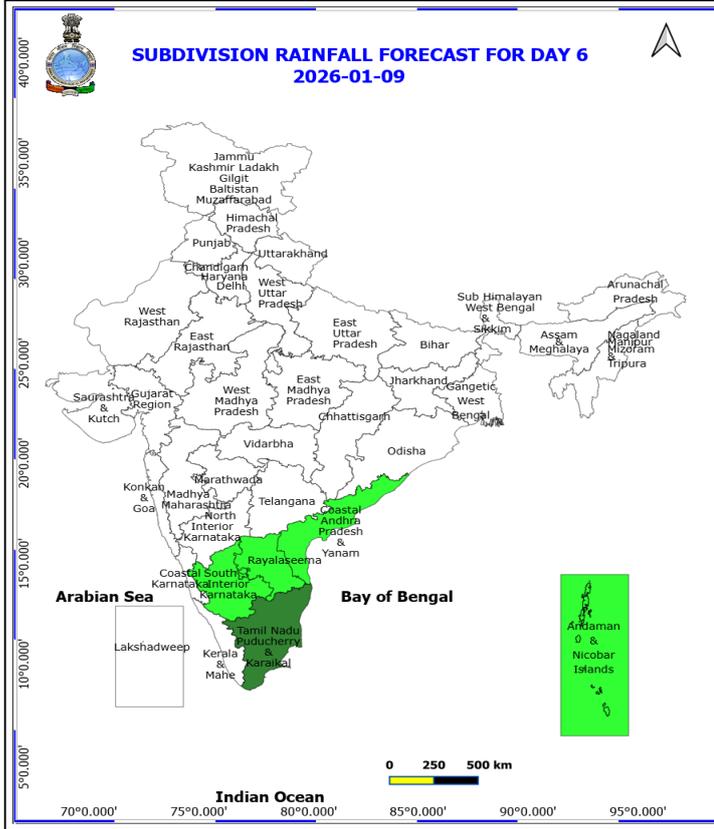


8 January (Day 5)

- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Cold wave conditions** likely at isolated places over Rajasthan.
- ❖ **Dense Fog** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Punjab, Uttar Pradesh and Uttarakhand.
- ❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail along and off Sri Lanka coast, over many parts of southwest Bay of Bengal & adjoining, many parts of southeast Bay of Bengal.
- ❖ **Squally winds with speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** is likely to prevail along and off Somalia coast and adjoining sea areas, over Gulf of Mannar and adjoining Comorin area.

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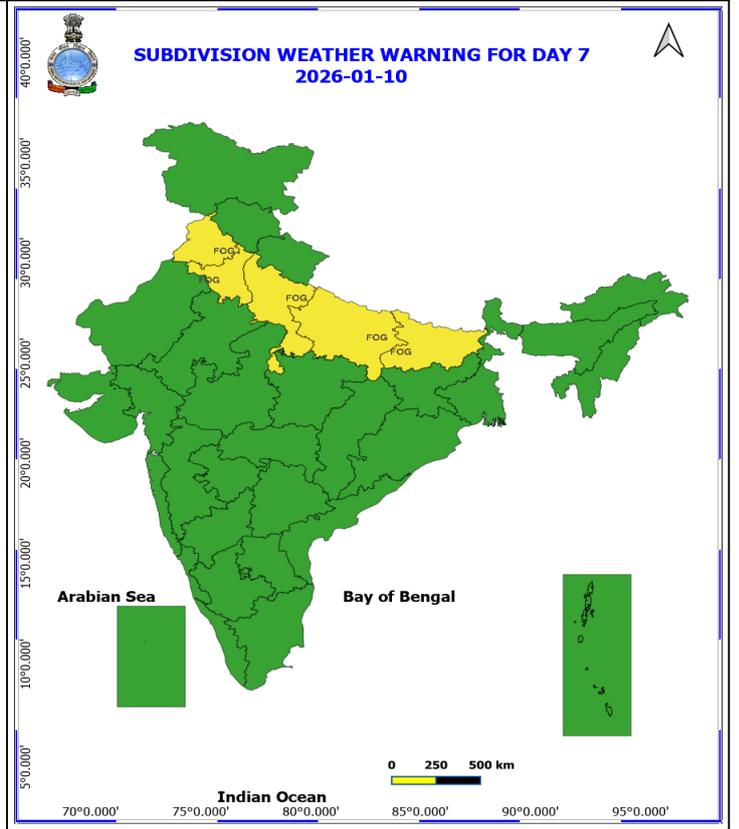
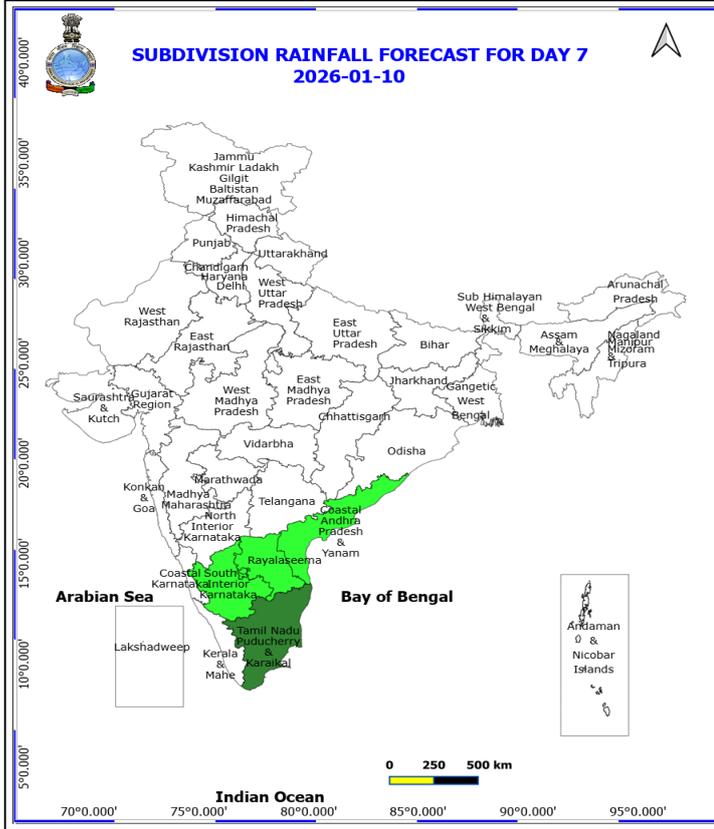
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9 January (Day 6)

- ❖ **Cold wave conditions** likely at isolated places over East Rajasthan.
- ❖ **Dense Fog** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.

No Fishermen Warning



10 January (Day 7)

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

No Fishermen Warning



Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	4- Jan	5- Jan	6- Jan	7- Jan	8- Jan	9- Jan	10- Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	DRY	DRY	SCT	SCT	ISOL	DRY
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
4	N. M. M. & T.	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
13	HARYANA, CHD & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY						
21	GUJRAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY						
24	MADHYA MAHARASHTRA	DRY						
25	MARATHWADA	DRY						
26	VIDARBHA	DRY						
27	CHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
29	TELANGANA	DRY						
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	DRY	ISOL	ISOL	ISOL	ISOL	SCT	SCT
32	COSTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
35	KERALA	SCT	DRY	DRY	DRY	DRY	DRY	DRY
36	LAKSHDWEEP	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 2026-01-03

Fig. 2: Departure of Maximum Temp. Dated 2026-01-03

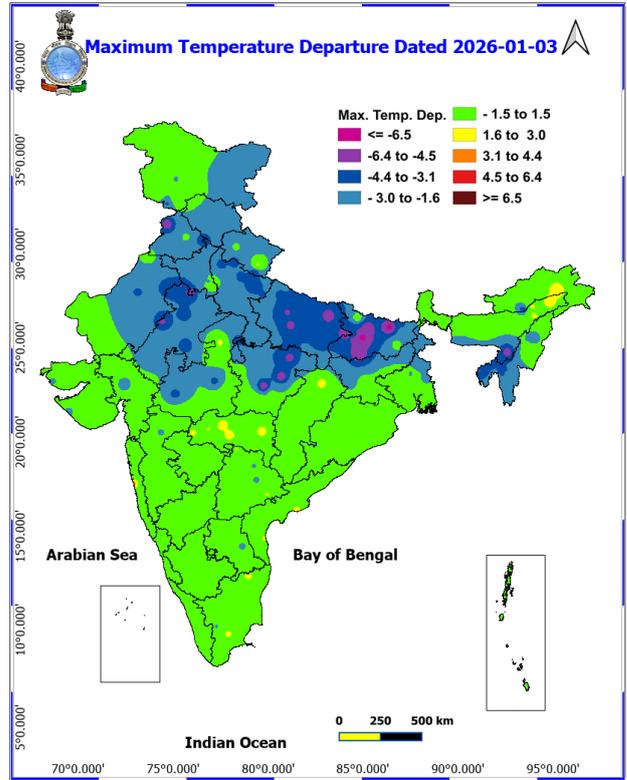
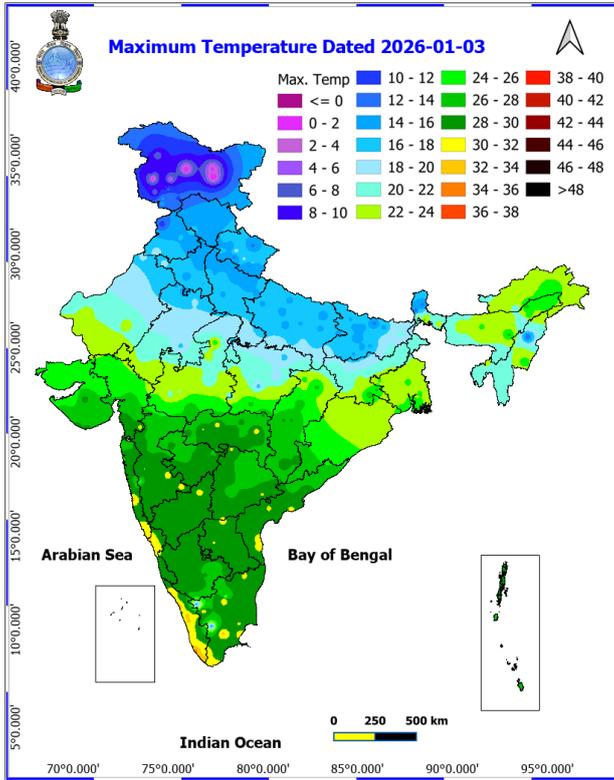
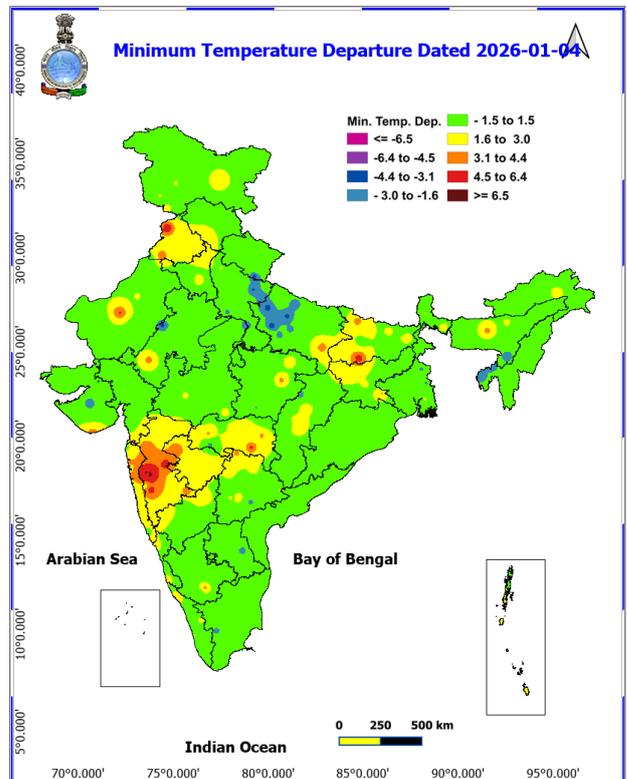
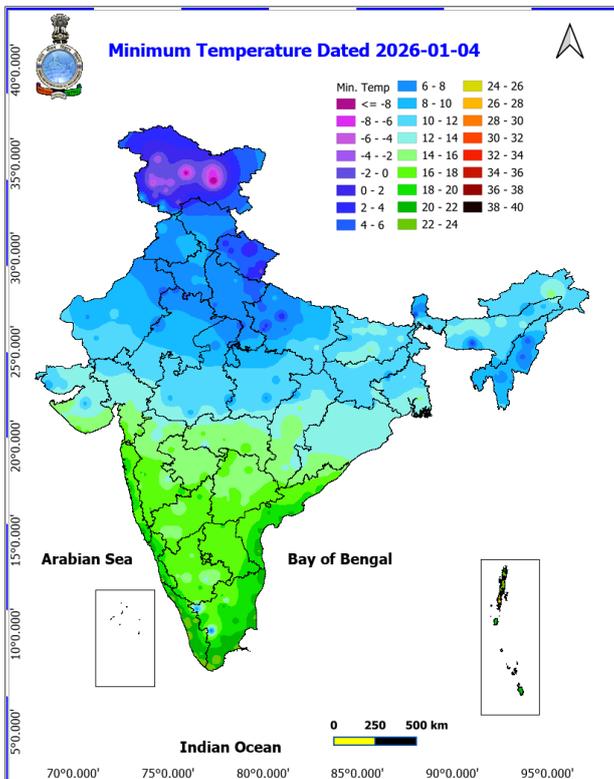


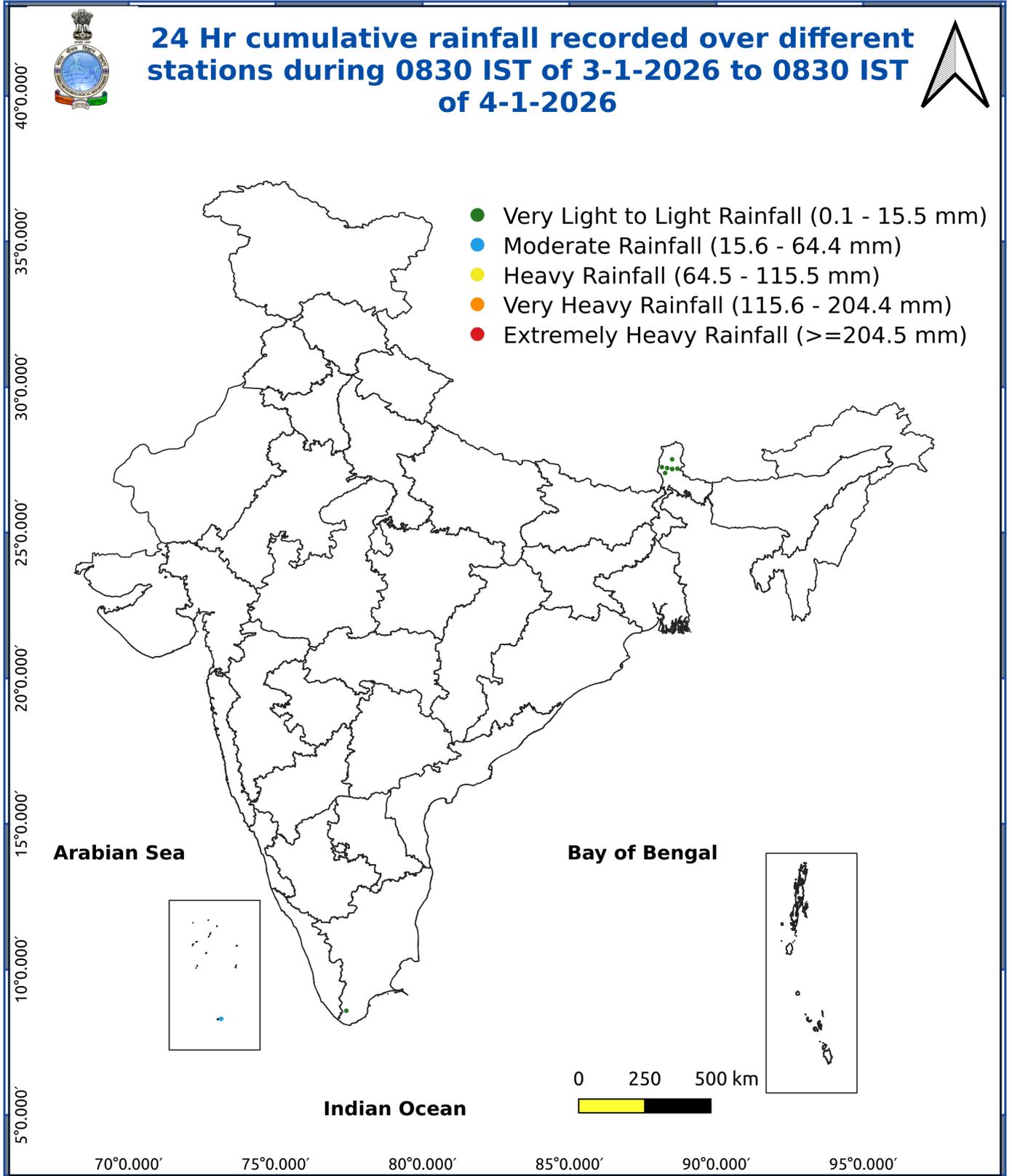
Fig. 3: Minimum Temperatures Dated 2026-01-04

Fig. 4: Departure of Minimum Temp. Dated 2026-01-04



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Impact and Actions

Impact expected due to dense/very dense fog in the night/morning hours: very likely to continue during night/morning hours at some places over Punjab, Haryana, Chandigarh till 07th; over east Uttar Pradesh till 08th; at isolated places over west Uttar Pradesh till 05th; over Madhya Pradesh and Odisha till 6th January, 2026.

❖ 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 in isolated pockets of Punjab, Haryana, Chandigarh & Delhi during 5th -8th; over west Rajasthan during 5th -9th; over east Rajasthan during 5th -10th; over Jharkhand on 6th -7th January 2026.

- 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

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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.

Impact expected due to Cold Day conditions: very likely at isolated pockets over Uttarakhand, Punjab, Haryana Chandigarh & Delhi, West Madhya Pradesh and Bihar on 4th & 5th; over East Rajasthan and East Uttar Pradesh on 4th January 2026.

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- Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- Take safety measures while using electrical and gas heating devices.
- Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- Protect livestock from cold weather.

Agromet advisories for various parts of the country

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Agromet advisories for likely impact of Cold Waves/ Ground Frost/ Low Temperatures

- In **Uttarakhand, Punjab, Haryana, Rajasthan and Jharkhand**, apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress or cold injuries. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature.

Livestock / Poultry

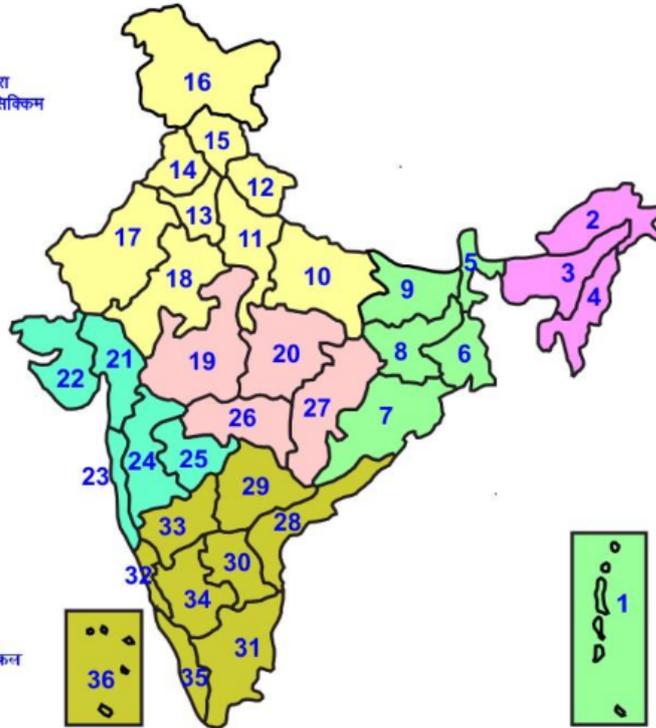
- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

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 | | | |

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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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