

2026-01-30

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

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and Warnings

- A fresh **western disturbance** is likely to affect northwest India from the night of 30<sup>th</sup> January 2026. Under its influence, scattered to fairly widespread rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 31<sup>st</sup> January and 01<sup>st</sup> February; Himachal Pradesh, Punjab, Haryana and Chandigarh on 01<sup>st</sup> February and Uttarakhand on 01<sup>st</sup> & 02<sup>nd</sup> February. **Isolated** light rainfall with **thunderstorm, lightning** likely over Rajasthan during 31<sup>st</sup> January-03<sup>rd</sup> February. **Isolated** light/moderate rainfall **accompanied with thunderstorm, lightning** very likely over Madhya Pradesh on 01<sup>st</sup> & 02<sup>nd</sup> February and Chhattisgarh on 02<sup>nd</sup> February.
- **Ground frost** conditions likely to prevail over Uttarakhand on 30<sup>th</sup> January.

#### Forecast of minimum temperatures:

- No significant change likely over Northwest India during next 2 days; gradual rise by 3-5°C during subsequent 3 days and gradual fall by 2-4°C during subsequent 2 days thereafter.
- Gradual rise in minimum temperatures by 2-3°C likely over Central India during next 24 hours; gradual fall by 2-3°C during subsequent 2 days and no significant change thereafter.
- Gradual rise in minimum temperatures by 2-4°C likely over Maharashtra during next 4 days and no significant change thereafter.
- Rise in minimum temperatures by 3-5°C likely over Gujarat during next 2 days; gradual fall by 2-3°C during subsequent 3 days and rise by 2-3°C during subsequent 2 days thereafter.
- No significant change in minimum temperatures likely over rest parts of the country.

#### Dense Fog, Cold wave Warnings:

- **Dense to very dense fog** conditions likely during morning/night hours in some/isolated pockets over Punjab, Haryana, Chandigarh, Uttar Pradesh till 01<sup>st</sup> February and **dense fog conditions** likely over isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Odisha, Sub-Himalayan West Bengal & Sikkim, Bihar till 31<sup>st</sup> January and East Uttar Pradesh till 01<sup>st</sup> February.
- **Cold wave** conditions likely in isolated pockets over Punjab, Haryana, Chandigarh on 30<sup>th</sup>-31<sup>st</sup> January.

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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 Arunachal Pradesh and Kerala & Mahe; **Dry** over rest of the country.

❖ **Fog Condition Observed (at 0530 hours of today):** **Very dense fog conditions:** at isolated places over Chhattisgarh **Dense fog conditions:** at a few places over West Uttar Pradesh **Moderate fog conditions:** at a few places over West Uttar Pradesh, West Madhya Pradesh and East Madhya Pradesh, at isolated places over Coastal Andhra Pradesh & Yanam **Shallow fog conditions:** at a few places over Bihar, East Uttar Pradesh, Haryana Chandigarh & Delhi and East Rajasthan, at isolated places over Assam & Meghalaya, Odisha, West Rajasthan.

❖ **Visibility reported (at 0530 hours of today):** Chhattisgarh: Ambikapur (dist. Surguja) 0.0; West Uttar Pradesh: Bareilly (dist. Bareilly) 50.0, Jhansi (dist. Jhansi) 200.0; East Madhya Pradesh: Satna (dist. Satna) 200.0; West Madhya Pradesh: Guna (dist. Guna), Gwalior (dist. Gwalior) 200.0 Each; Odisha: Gopalpur (dist. Ganjam) 500.0; East Uttar Pradesh: Bahraich (dist. Bahraich), Varanasi (Babatpur) AP, Varanasi (dist. Varanasi), Allahabad (dist. Prayagraj) 500.0 Each; East Rajasthan: Jaipur (dist. Jaipur), Kota A/P (dist. Kota) 500.0 Each; Assam & Meghalaya: Dhubri (dist. Dhubri) 500.0; Bihar: Gaya (dist. Gaya), Bhagalpur (dist. Bhagalpur) 500.0 Each; West Rajasthan: Churu (dist. Churu) 500.0; Haryana Chandigarh & Delhi: New Delhi (Safdarjung), New Delhi (Palam) AP (dist. South West Delhi) 500.0 Each.

❖ **Minimum Temperature Departures (as on 29-01-2026):** above normal by (3°C to 5°C) over Haryana Chandigarh & Delhi, West Rajasthan, Marathwada, Madhya Maharashtra, Chhattisgarh, Assam & Meghalaya; by (1°C to 3°C) over Jammu Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Northeast India, Maharashtra and South Peninsular India and near normal over rest parts of the country. The lowest minimum temperature of 2.0°C was observed at Narnaul (Haryana) over the plains of India.

❖ **Maximum Temperature Departures (as on 29-01-2026):** below normal (-1.6°C to -3.0°C) at few places over East Rajasthan. **The highest maximum temperature** of 35.4°C is reported at KOCHI (CIAL) (KERALA).

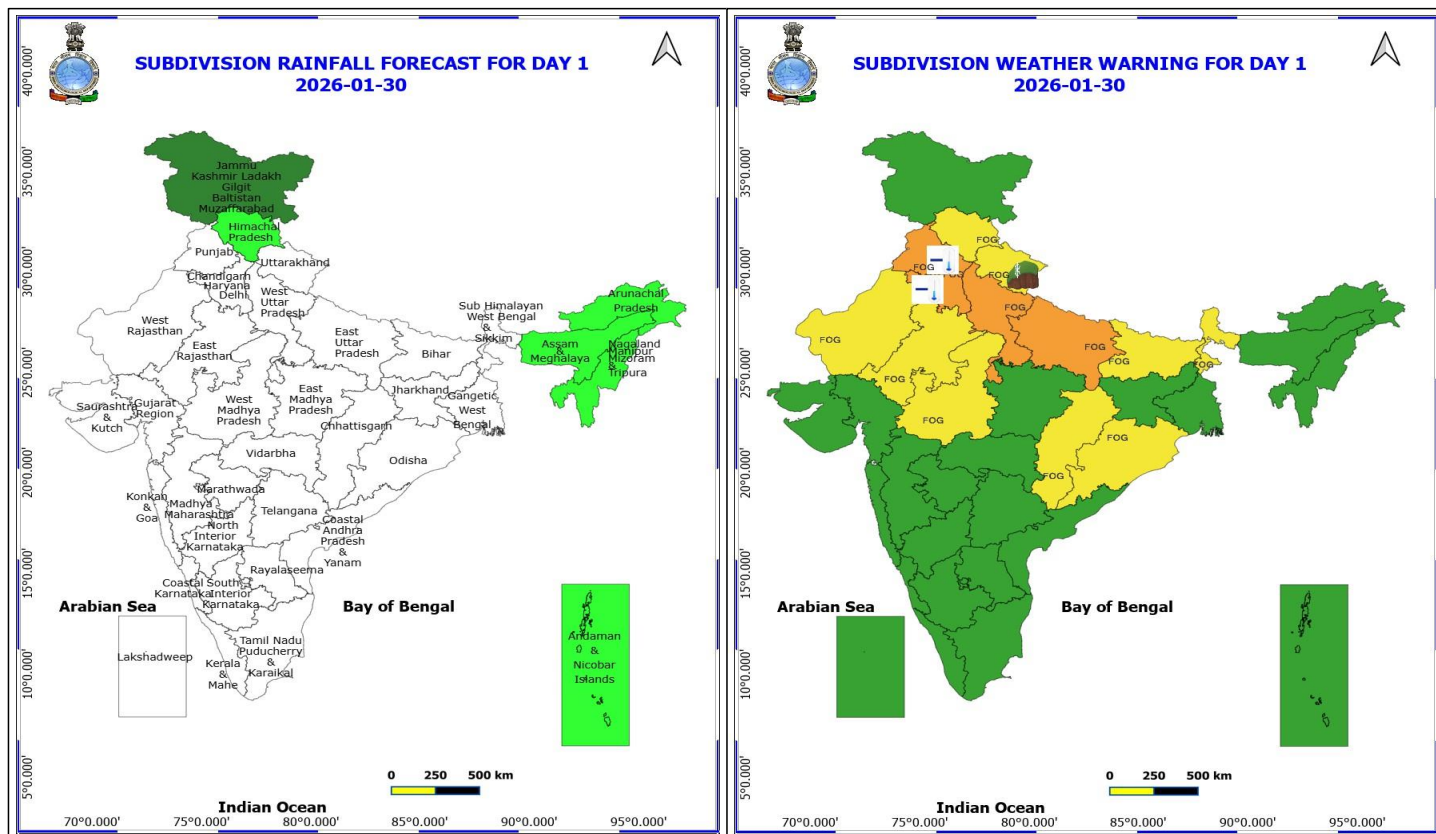


**Meteorological Analysis (Based on 0530 hours IST)**

- ♦ The **upper air cyclonic circulation** over northeast Assam at 0.9 km above mean sea level persists.
- ♦ The **Western Disturbance** as a **cyclonic circulation** over northeast Iran between 4.5 & 5.8 km above mean sea level persists.
- ♦ **Subtropical westerly Jet Stream** with core winds of the order of 105 knots at 12.6 km above mean sea level prevail over Northeast India.
- ♦ The **upper air cyclonic circulation** over southeast Arabian sea and adjoining south Kerala coast at 0.9 km above mean sea level persists.
- ♦ Another fresh **western disturbance** is likely to affect northwest India from 2<sup>nd</sup> February 2026.

**Weather Outlook for subsequent 3 days**

- ♦ Isolated/Scattered rainfall/snowfall activity likely over Western Himalayan Region.
- ♦ Isolated/Scattered rainfall activity likely over Punjab, Uttar Pradesh, Tamil Nadu and Madhya Pradesh.



### 30 January (Day 1)

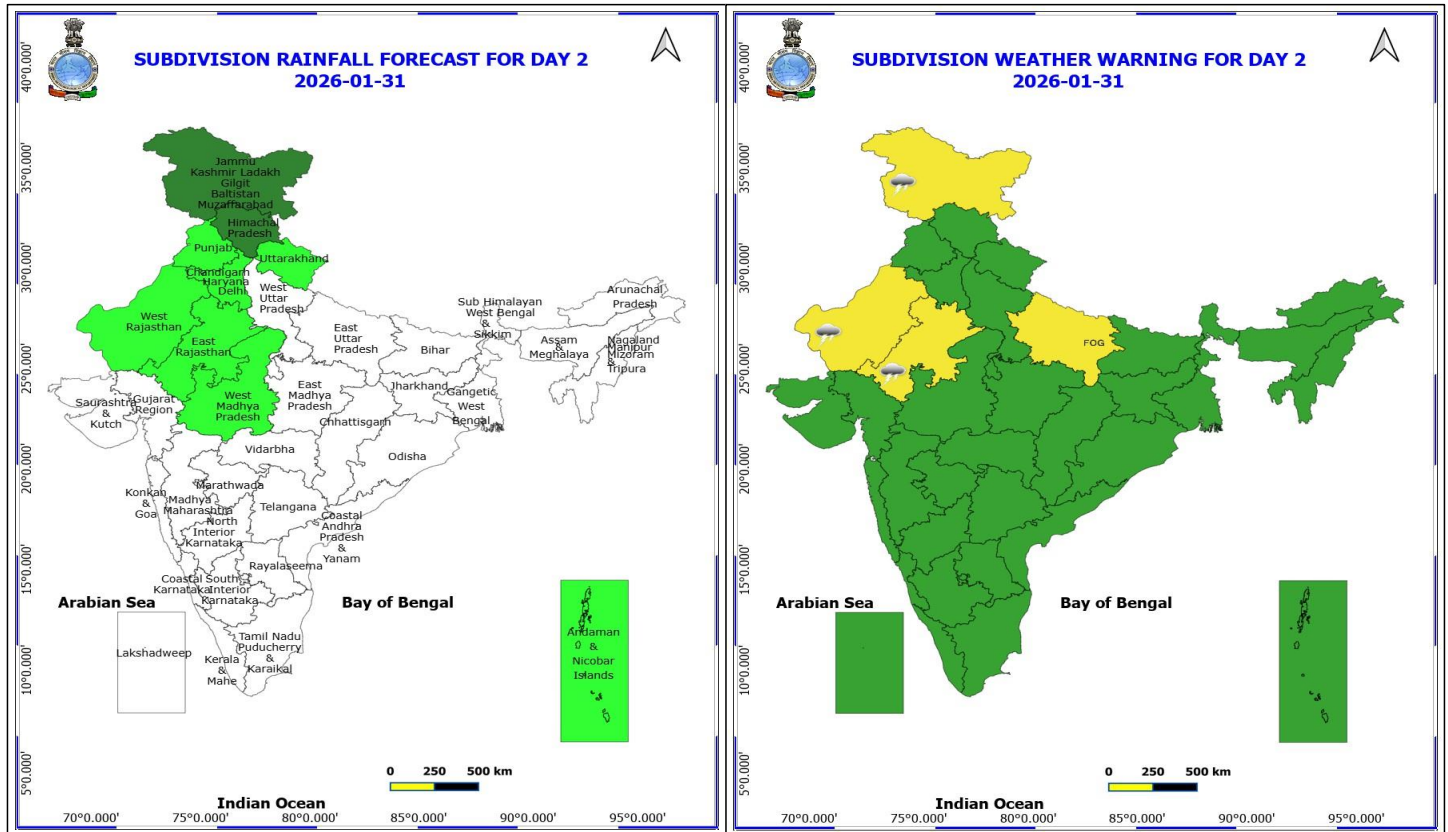
- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Ground Frost** very likely at isolated places over Uttarakhand.
- ❖ **Dense Fog** very likely at isolated places over Bihar, Chhattisgarh, Himachal Pradesh, Odisha, Rajasthan, Sub Himalayan West Bengal & Sikkim, Uttarakhand and West Madhya Pradesh.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and Uttar Pradesh.
- ❖ **Squally wind with speed reaching 45 to 55 kmph gusting up to 65 kmph** is likely to prevail over many parts of Comorin area & adjoining Gulf of Mannar.

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### 31 January (Day 2)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Rajasthan.
- ❖ **Dense Fog** very likely at isolated places over East Uttar Pradesh.
- ❖ **Squally wind with speed reaching 45 to 55 kmph gusting up to 65 kmph** is likely to prevail over many parts of Comorin area & adjoining Gulf of Mannar.

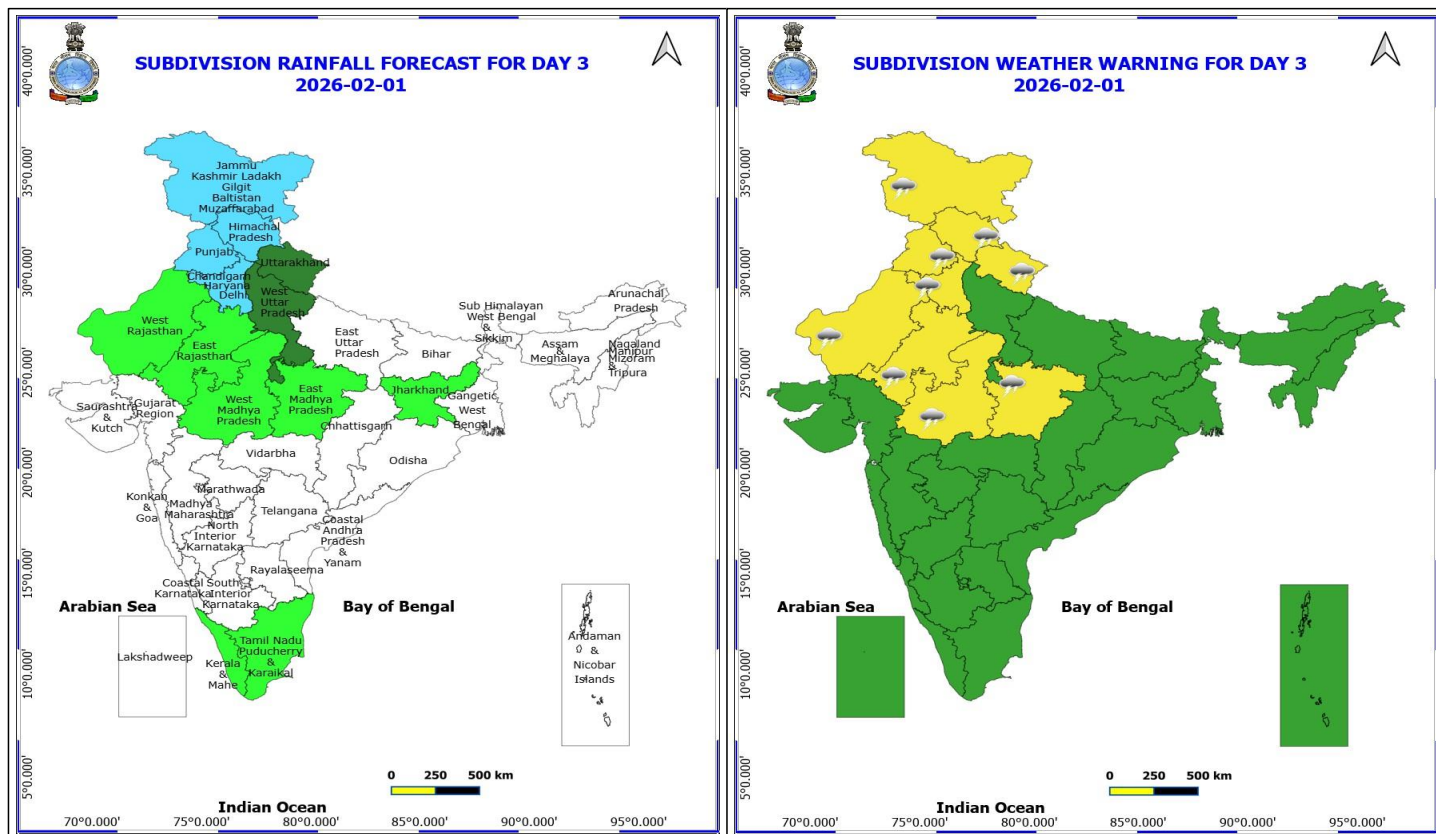
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### 1 February (Day 3)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Madhya Pradesh and Rajasthan.

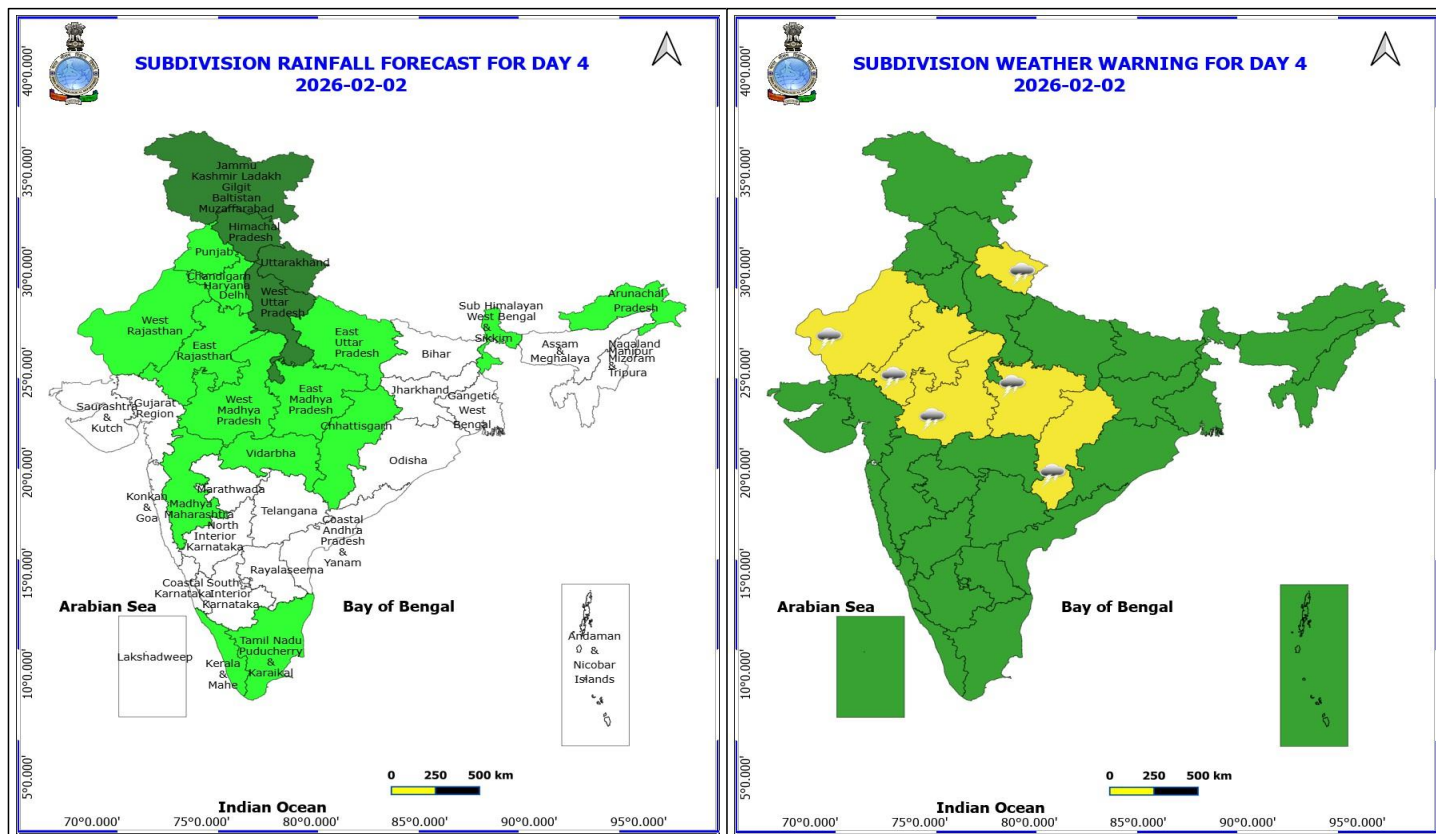
**No Fishermen Warning**

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## 2 February (Day 4)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Chhattisgarh, Madhya Pradesh and Rajasthan.

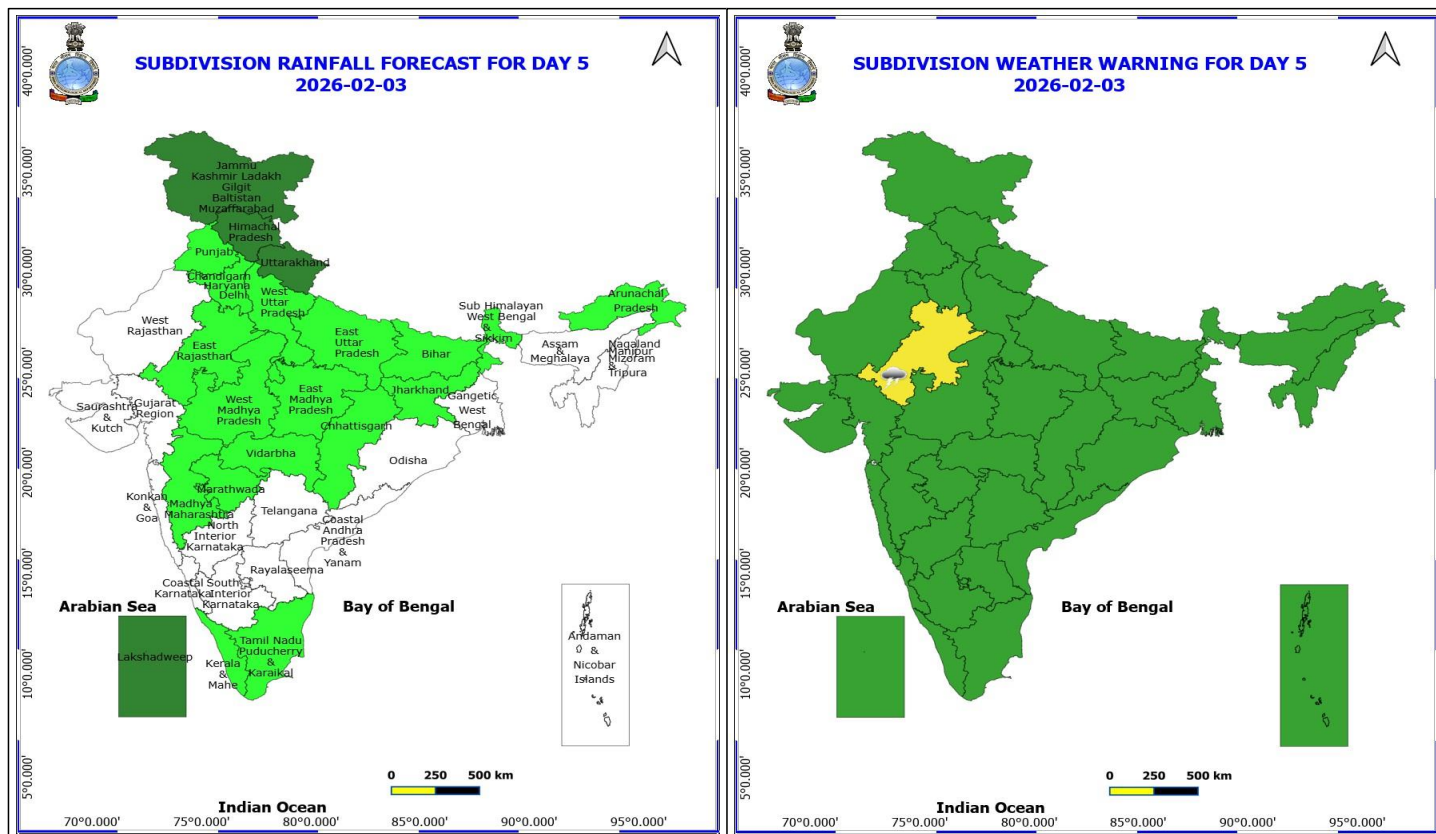
**No Fishermen Warning**

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### 3 February (Day 5)

❖ Thunderstorm accompanied with Lightning likely at isolated places over East Rajasthan.

No Fishermen Warning

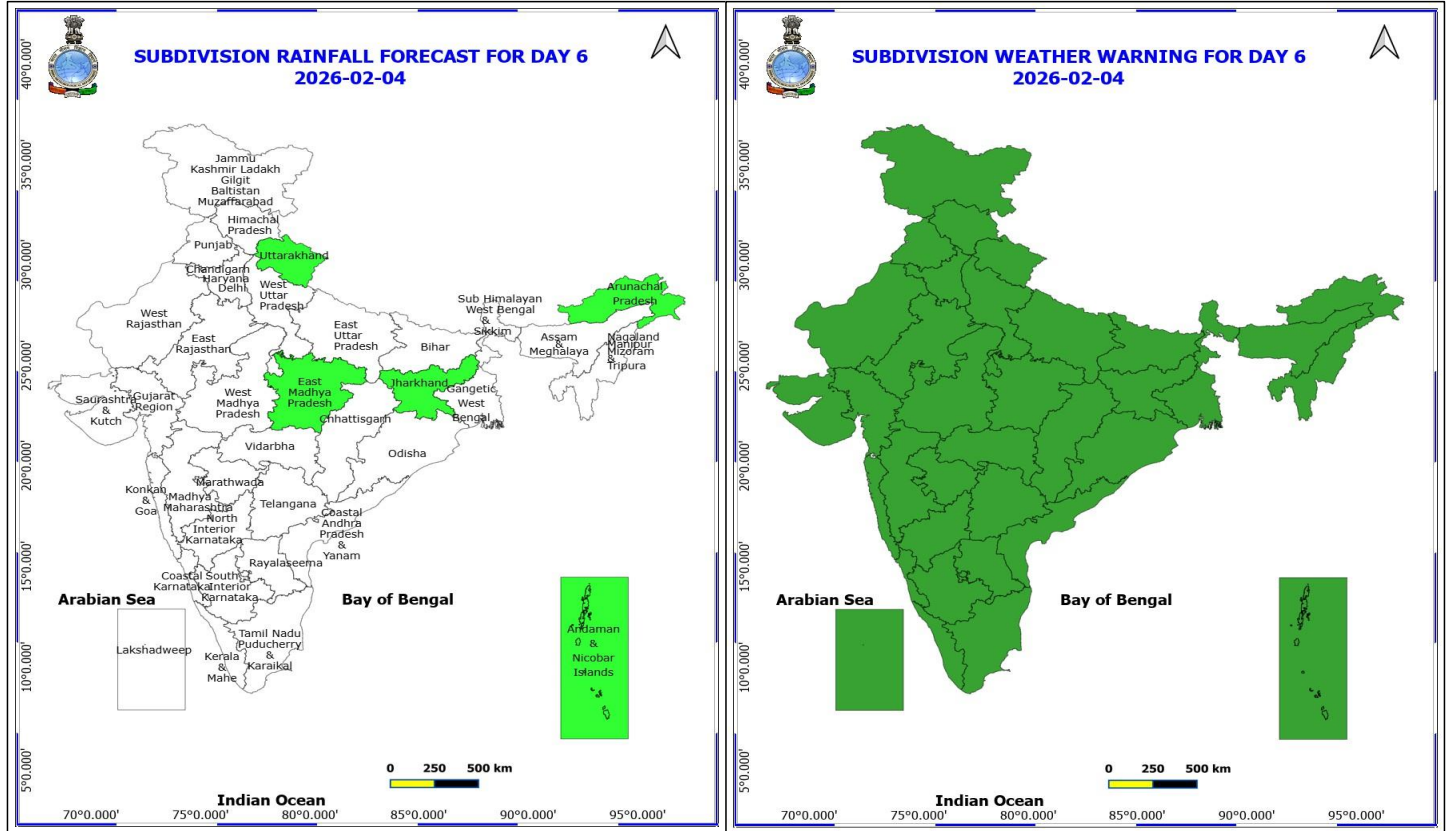
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4 February (Day 6)

No Warning

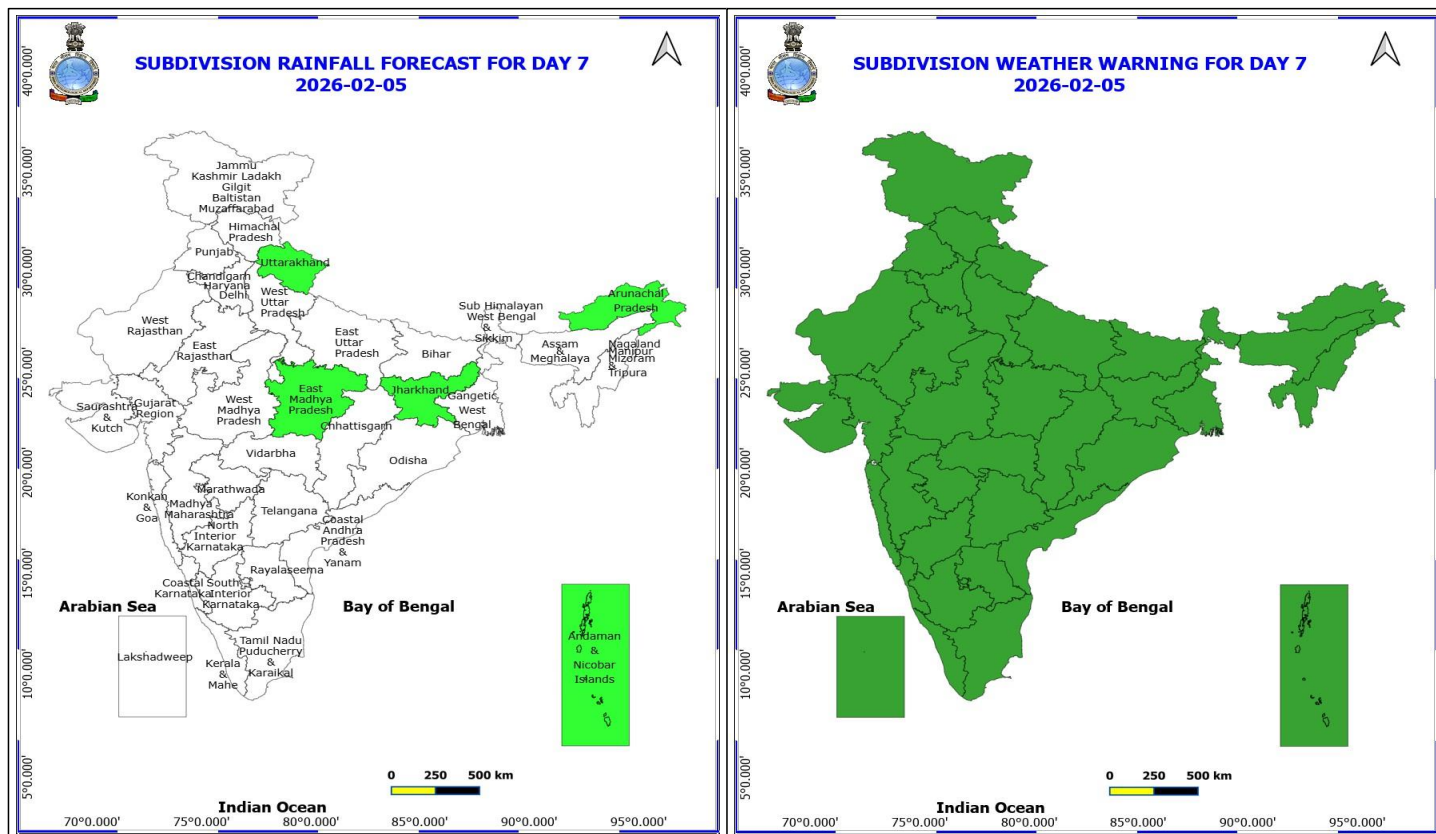
No Fishermen Warning

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5 February (Day 7)

No Warning

No Fishermen Warning

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**Table-1**

## 7 Days Rainfall Forecast

S.No.	Subdivision	30- Jan	31- Jan	1- Feb	2- Feb	3- Feb	4- Feb	5- Feb
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL
2	ARUNACHAL PRADESH	ISOL	DRY	DRY	ISOL	ISOL	ISOL	ISOL
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	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	ISOL	DRY	ISOL	ISOL	ISOL
9	BIHAR	DRY	DRY	DRY	DRY	ISOL	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	SCT	SCT	ISOL	DRY	DRY
12	UTTARAKHAND	DRY	ISOL	SCT	SCT	SCT	ISOL	ISOL
13	HARYANA, CHD & DELHI	DRY	ISOL	FWS	ISOL	ISOL	DRY	DRY
14	PUNJAB	DRY	ISOL	FWS	ISOL	ISOL	DRY	DRY
15	HIMACHAL PRADESH	ISOL	SCT	FWS	SCT	SCT	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	SCT	SCT	FWS	SCT	SCT	DRY	DRY
17	WEST RAJASTHAN	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	ISOL	ISOL	ISOL	ISOL	DRY	DRY
19	WEST MADHYA PRADESH	DRY	ISOL	ISOL	ISOL	ISOL	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
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	ISOL	ISOL	DRY	DRY
25	MARATHWADA	DRY	DRY	DRY	DRY	ISOL	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
27	CHATTISGARH	DRY	DRY	DRY	ISOL	ISOL	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	ISOL	ISOL	ISOL	DRY	DRY
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	ISOL	ISOL	ISOL	DRY	DRY
36	LAKSHDWEAP	DRY	DRY	DRY	DRY	SCT	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 2026-01-29

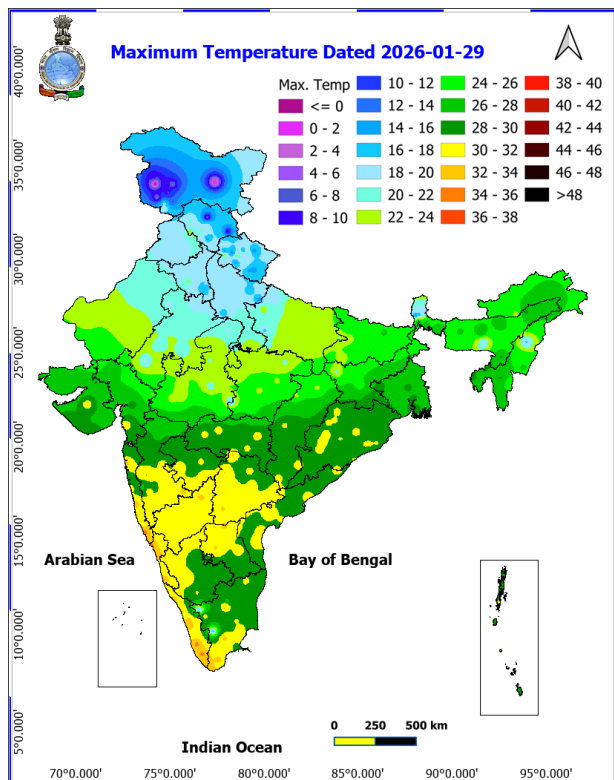


Fig. 2: Departure of Maximum Temp. Dated 2026-01-29

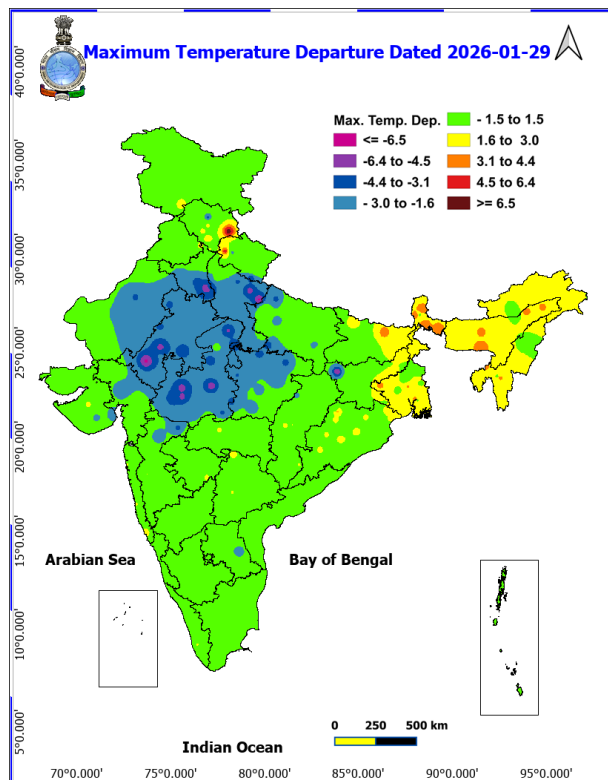


Fig. 3: Minimum Temperatures Dated 2026-01-29

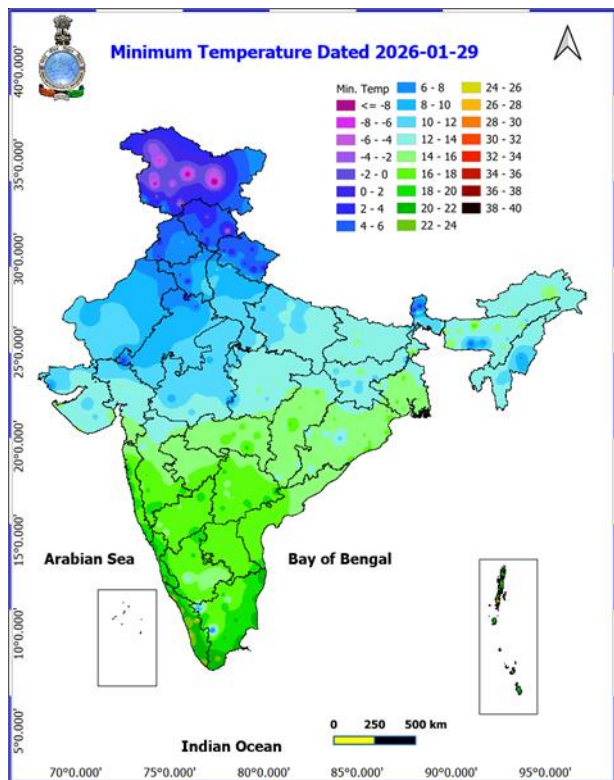
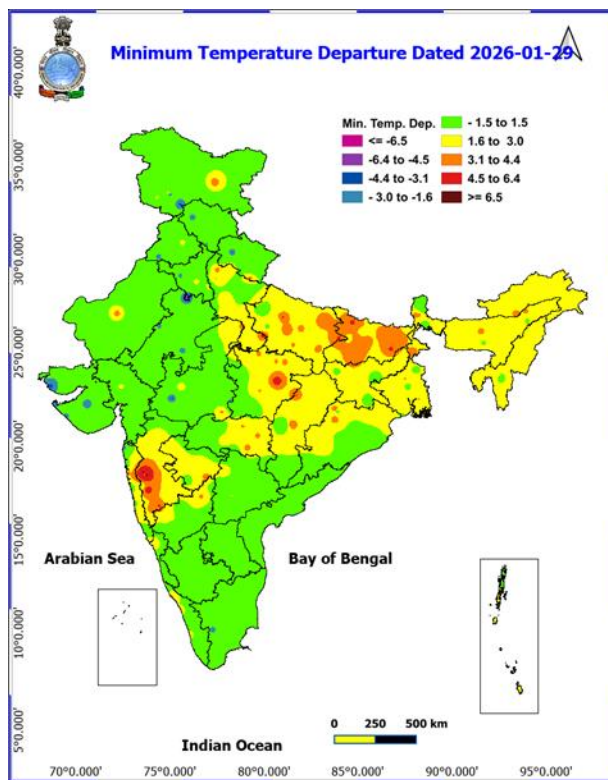
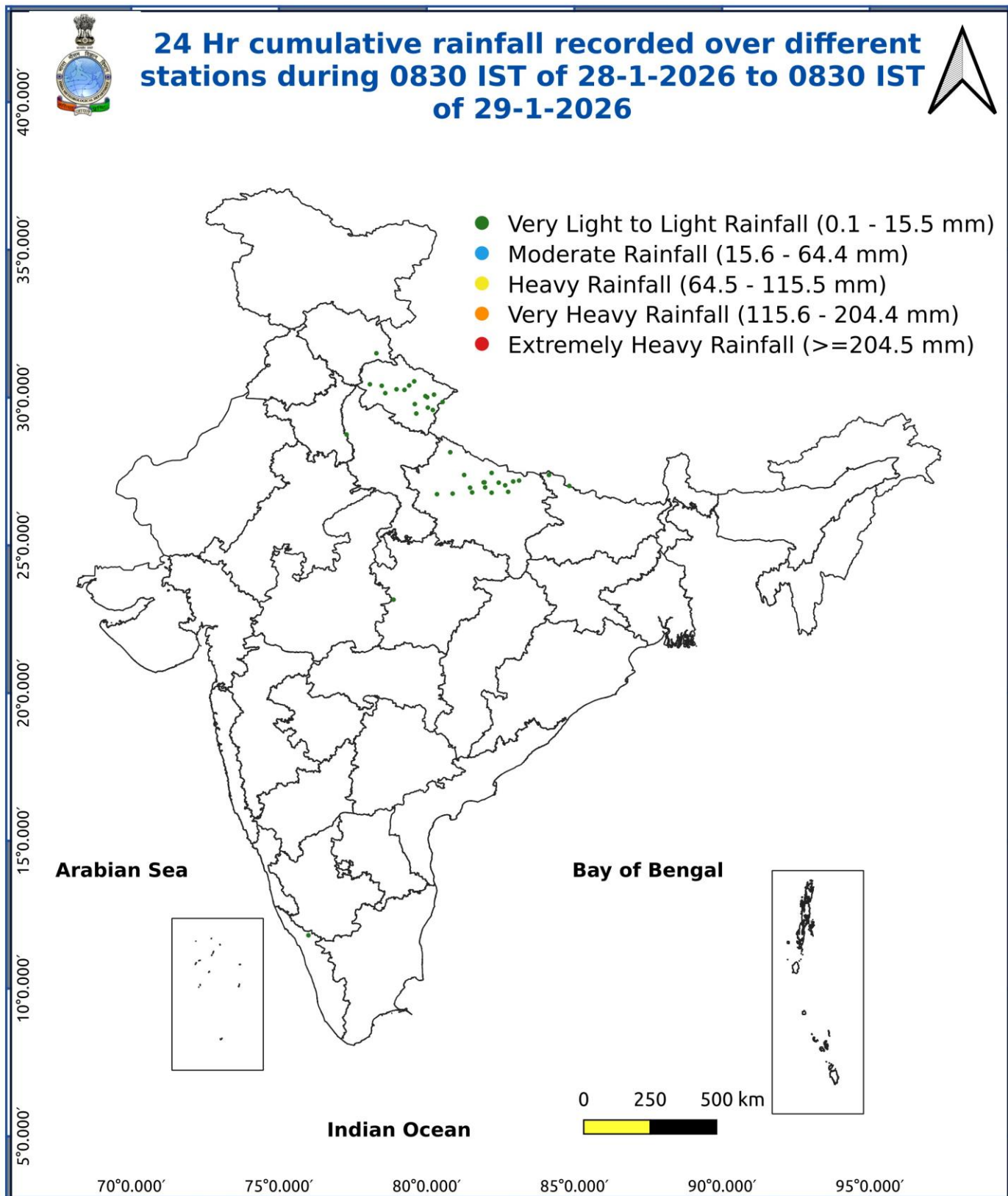


Fig. 4: Departure of Minimum Temp. Dated 2026-01-29







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## Impact and Actions

### Impact expected due to dense/very dense fog in the morning hours:

- ♦ **Dense to very dense fog** conditions likely during morning/night hours in some/isolated pockets over Punjab, Haryana, Chandigarh, Uttar Pradesh till 31<sup>st</sup> and **dense fog conditions** likely over isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Odisha, Sub-Himalayan West Bengal & Sikkim, Bihar till 31<sup>st</sup> January and East Uttar Pradesh till 01<sup>st</sup> February.

### 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/Severe Cold wave conditions:

**Cold wave** conditions likely in isolated pockets over Punjab, Haryana, Chandigarh on 30<sup>th</sup>-31<sup>st</sup> January.

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

##### 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.

##### Livestock / Poultry

- ♦ Keep the animals inside the shed during heavy rainfall/ Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.
- ♦ To protect from cold, keep cattle inside the sheds during night and provide dry bedding. Also keep the chicks warm by providing artificial light in the poultry sheds.

#### Legends & abbreviations:

##### Region wise classification of meteorological Sub-Divisions:

- ♦ **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- ♦ **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- ♦ **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- ♦ **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ♦ **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
- ♦ **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

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2 अरुणाचल प्रदेश

3 असम और मेघालय

4 नागालैंड मनीपुर मीजोरम और त्रिपुरा

5 उप हिमालय पश्चिम बंगाल एवं सिक्किम

6 पश्चिम गंगेय बंगाल

7 ओडिसा

8 झारखंड

9 बिहार

10 पूर्वी उत्तर प्रदेश

11 पश्चिम उत्तर प्रदेश

12 उत्तराखंड

13 हरियाणा चंडीगढ़ एवं दिल्ली

14 पंजाब

15 हिमाचल प्रदेश

16 जम्मू एवं कश्मीर एवं लद्दाख

17 पश्चिम राजस्थान

18 पूर्वी राजस्थान

19 पश्चिम मध्य प्रदेश

20 पूर्वी मध्य प्रदेश

21 गुजरात क्षेत्र

22 सौराष्ट्र एवं कच्छ

23 कोंकण एवं गोवा

24 मध्य महाराष्ट्र

25 मराठावाड़ा

26 विदर्भ

27 छत्तीसगढ़

28 तटीय आंध्र प्रदेश एवं यनम

29 तेलंगाना

30 रायलसीमा

31 तमिलनाडु, पुदुचेरी एवं कराईकल

32 तटिय कर्नाटक

33 आंतरिक उत्तरी कर्नाटक

34 आंतरिक दक्षिणी कर्नाटक

35 केरल एवं माहे

36 लक्षद्वीप

1. Andaman & Nicobar Islands

2. Arunachal Pradesh

3. Assam & Meghalaya

4. Nagaland, Manipur, Mizoram & Tripura

5. Sub-Himalayan West Bengal & Sikkim

6. Gangetic West Bengal

7. Orissa

8. Jharkhand

9. Bihar

10. East Uttar Pradesh

11. West Uttar Pradesh

12. Uttarakhand

13. Haryana, Chd & Delhi

14. Punjab

15. Himachal Pradesh

16. Jammu & Kashmir and Ladakh

17. West Rajasthan

18. East Rajasthan

19. West Madhya Pradesh

20. East Madhya Pradesh

21. Gujarat

22. Saurashtra

23. Konkan & Goa

24. Madhya Maharashtra

25. 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

 Thunderstorm & Lightning

 Strong surface winds

 Cold Wave

 Hot & Humid

 Very Heavy Rain

 Hailstorm


 Heat Wave

 Cold Day

 Extremely Heavy Rain

 Dust Storm

 Hot Day

 Ground Frost

 Heavy Snow

 Dust Raising Winds

 Warm Night

 FOG

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

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

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

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## LEGENDS

### WARNING

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)

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

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