

2026-01-13

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

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and warning:

#### Forecast of minimum temperatures:

- No significant change in minimum temperature likely over northwest India during next 2 days and gradual rise by 2-4°C during subsequent 5 days.
- No significant change in minimum temperature likely over Maharashtra next 5 days.
- Gradual fall by 2-3°C in minimum temperature likely over Gujarat State by 2-3°C during next 48 hours and thereafter no significant change for next 4 days.
- No significant change in minimum temperature over rest parts of the country.

#### Dense Fog, Cold day & Cold wave Warnings:

- Dense to very dense fog conditions very likely to prevail in morning hours in isolated/some pockets over Haryana, Chandigarh & Delhi and Punjab till 14th and Dense fog in isolated pockets till 18th January 2026.
- Dense to very dense fog conditions very likely to prevail in morning hours in isolated/some pockets over West Uttar Pradesh till 19th; over East Uttar Pradesh during 17th -19th; Dense fog in isolated pockets of East Uttar Pradesh during 13th -16th January 2026.
- Dense fog conditions also likely during morning hours in isolated pockets over Jammu division till 16th; Himachal Pradesh, Uttarakhand and Bihar till 17th; over West Rajasthan till 13th; Sub-Himalayan West Bengal & Sikkim till 14th; Assam & Meghalaya on 16th & 17th January.
- Cold day to Severe Cold day conditions very likely in isolated pockets of Punjab, Haryana, Chandigarh on 13th; Cold day conditions in isolated pockets of Uttarakhand on 13th January.
- Cold wave to Severe Cold wave conditions very likely in isolated/some parts of Punjab, Haryana, Chandigarh, Delhi on 13th & 14th and Rajasthan on 13th January.
- Cold wave conditions very likely in isolated pockets over Himachal Pradesh, West Uttar Pradesh on 13th & 14th; Rajasthan on 14th & 15th; Odisha during 13th-15th and Jharkhand during 13th-16th January.

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#### Main Weather Observations:

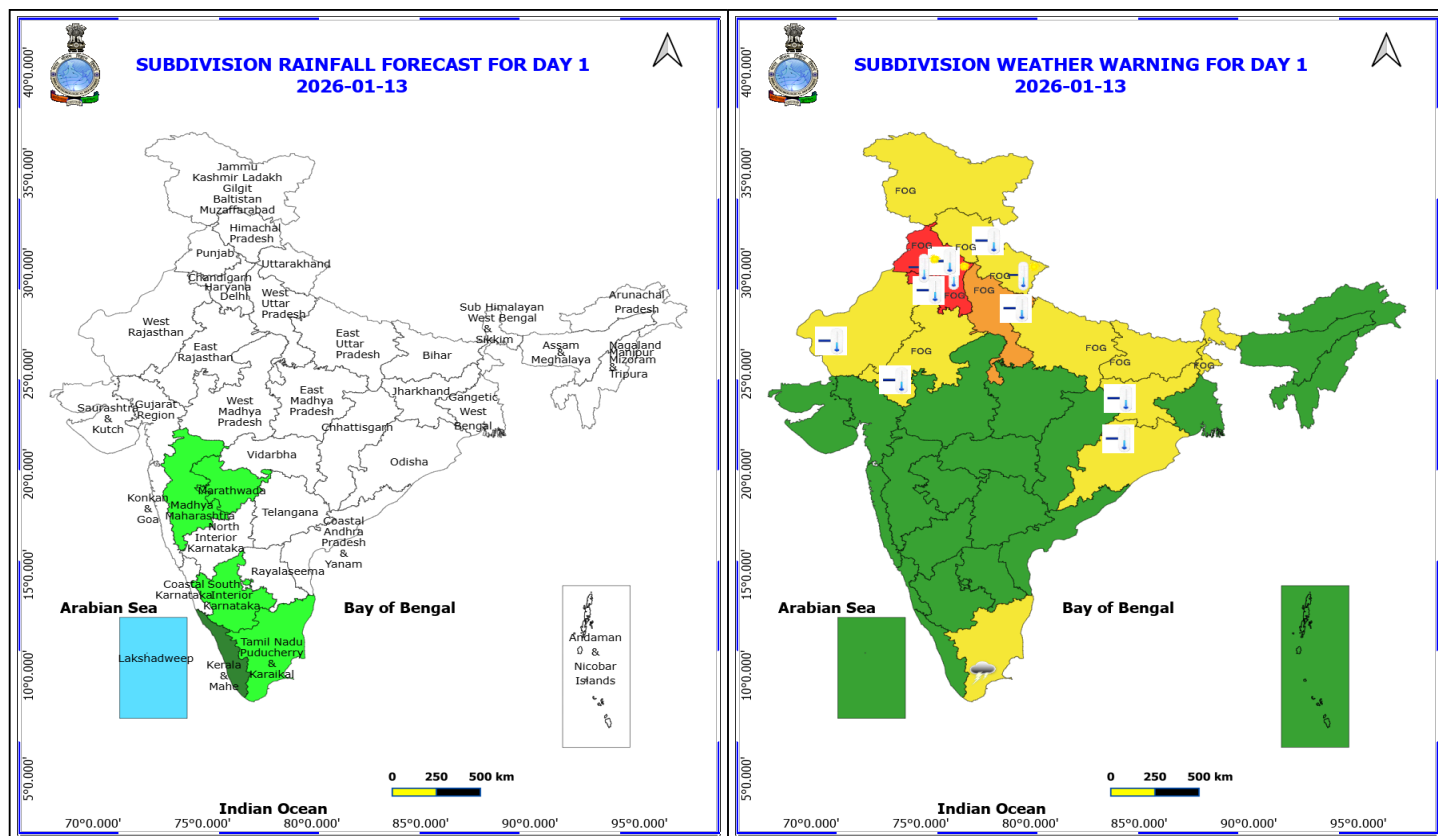
- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Tamilnadu Puducherry & Karaikal and South Interior Karnataka; **at many places** over Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Lakshadweep ; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Tamilnadu Puducherry & Karaikal:** Karaikal (dist Karaikal) 7, Nagapattinam (dist Nagapattinam) 4, Tiruchirapalli AP (dist Tiruchirappalli), Adiramapatinam (dist Thanjavur) 2 Each, Tondi (dist Ramanathapuram) 1; **Kerala & Mahe:** Kozhikode (calicut) (dist Kozhikode) 3.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Heavy rain** at isolated places over Tamilnadu Puducherry & Karaikal.
- ❖ **Fog Condition Observed (at 0530 hours of today): Very dense fog conditions:** at a few places over Punjab, at isolated places over Haryana Chandigarh & Delhi **Dense fog conditions:** at a few places over West Uttar Pradesh and Punjab, at isolated places over Jammu & Kashmir and Ladakh.
- ❖ **Visibility reported (at 0530 hours of today): Haryana Chandigarh & Delhi:** Ambala (dist Ambala) 0; **Punjab:** Patiala (dist Patiala) 0, Amritsar (rajasansi) AP (dist Amritsar) 50; **Chandigarh:** Chandigarh (dist Chandigarh) 200; **West Uttar Pradesh:** Bareilly (dist Bareilly) 50; **Jammu & Kashmir And Ladakh:** Jammu (dist Jammu) 50; **East Uttar Pradesh:** Kanpur Airforce (dist Kanpur Nagar) 200; **Bihar:** Purnea (dist Purnia) 200;.
- ❖ ❖ **Minimum Temperature Departures (as on 12-01-2026):** below normal (-3°C to -6°C) over Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Chhattisgarh, Bihar, Saurashtra & Kutch and near normal over rest parts of the country. The **lowest minimum temperature** of 0.6°C was observed at **Bhatinda (Punjab)** over the plains of India.
- ❖ **Maximum Temperature Departures (as on 12-01-2026):** appreciably below normal(-5.0°C to -3.1°C) at few places over Punjab. The **highest maximum temperature** of 36.6°C is reported at KOTTAYAM (KERALA)..

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

- The **upper air cyclonic circulation** over Comorin area & neighbourhood at 0.9 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 100 knots at 12.6 km above mean sea level prevail over north India.
- 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. 65°E to the north of Lat. 25°N persists.
- The **upper air cyclonic circulation** over north Haryana & neighbourhood now lies over south Haryana & neighbourhood and extends upto 1.5 km above mean sea level.
- A fresh **Western disturbance** is likely to affect Western Himalayan region from 15<sup>th</sup> January, 2025.

#### Weather Outlook for subsequent 3 days

- Scattered to Fairly widespread activity likely over Western Himalayan Region, Plains of northwest India except Rajasthan And Madhya Pradesh where isolated/scattered rainfall activity is likely.
- Isolated rainfall activity is likely over Kerala, Lakshadweep and Nicobar islands.



### 13 January (Day 1)

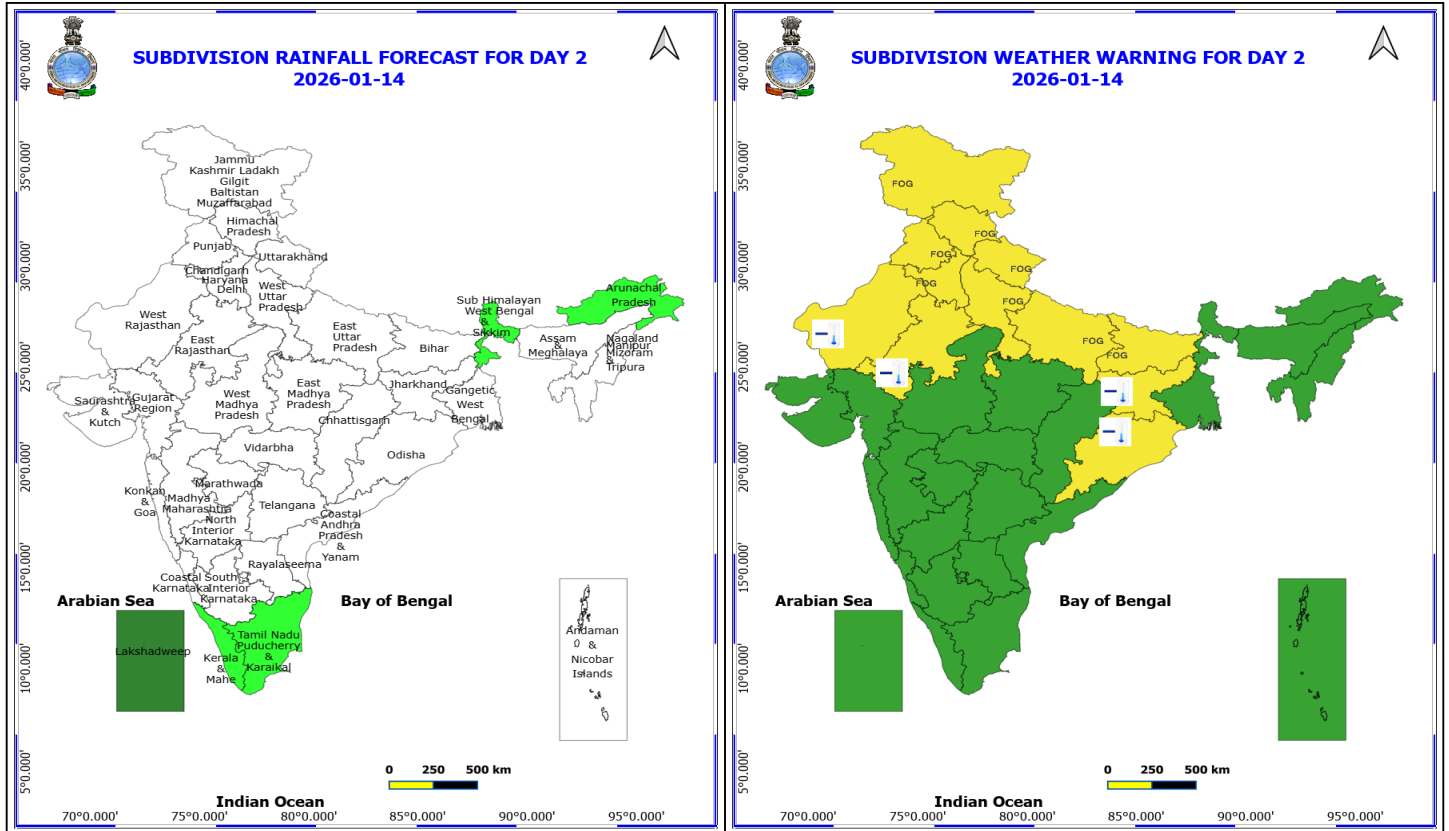
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Himachal Pradesh, Jharkhand, Odisha, Rajasthan and West Uttar Pradesh.
- ❖ **Cold wave to Severe Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Cold Day conditions** very likely at isolated places over Uttarakhand.
- ❖ **Cold Day to Severe Cold Day conditions** very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Dense Fog** very likely at isolated places over Bihar, East Rajasthan, East Uttar Pradesh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab and West Uttar Pradesh.
- ❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail over some parts of Comorin area.

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#### 14 January (Day 2)

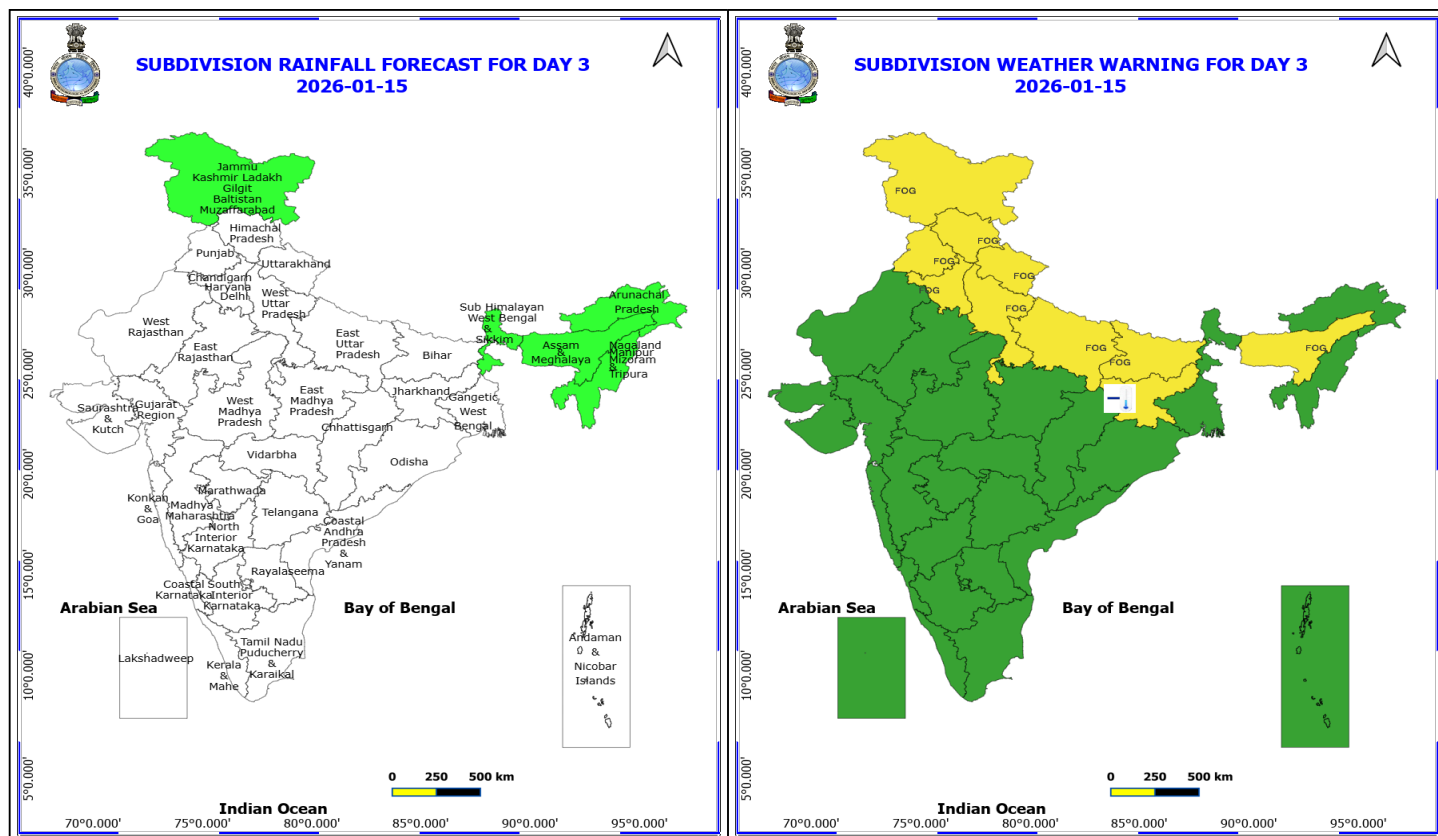
- ❖ **Cold wave conditions** very likely at isolated places over Jharkhand, Odisha and Rajasthan.
- ❖ **Dense Fog** very likely at isolated places over Bihar, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over West Uttar Pradesh.
- ❖ **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** is likely to prevail over some parts of Comorin area.

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### 15 January (Day 3)

- ❖ **Cold wave conditions** very likely at isolated places over Jharkhand.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over West Uttar Pradesh.

**No Fishermen Warning**

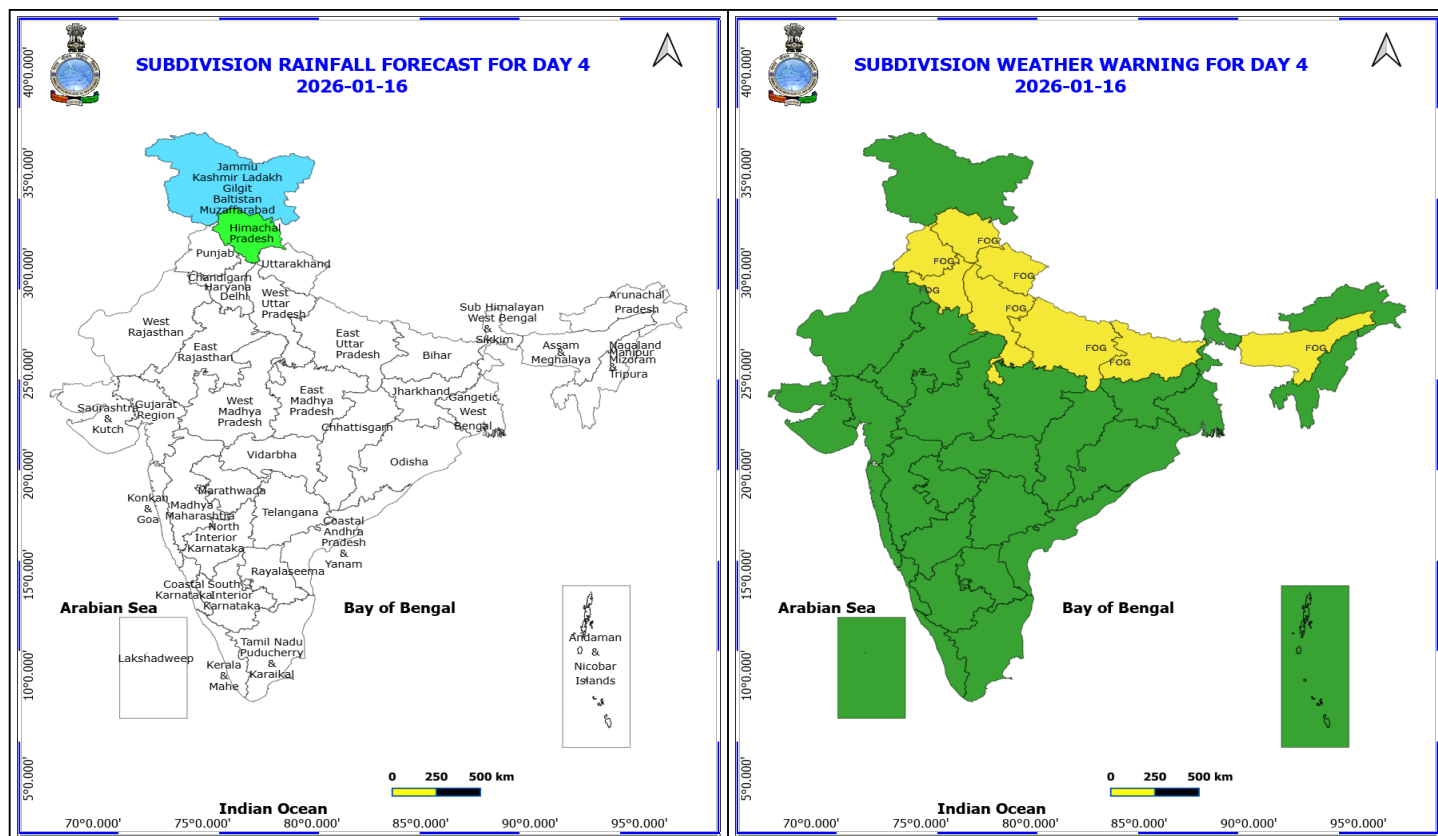
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## 16 January (Day 4)

❖ **Dense Fog** likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Punjab and Uttarakhand.

❖ **Dense to Very Dense Fog** likely at isolated places over Uttar Pradesh.

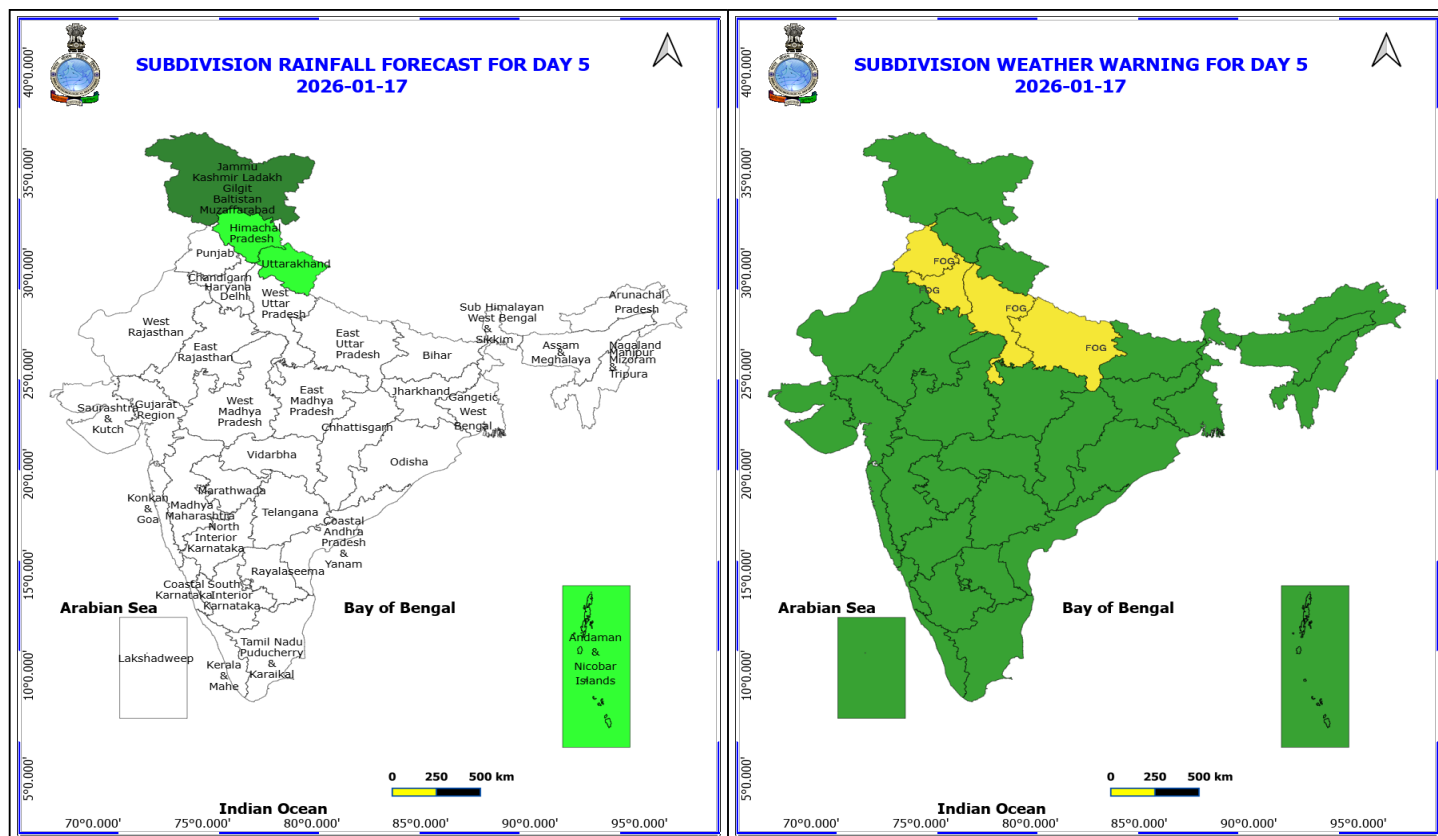
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### 17 January (Day 5)

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

**No Fishermen Warning**

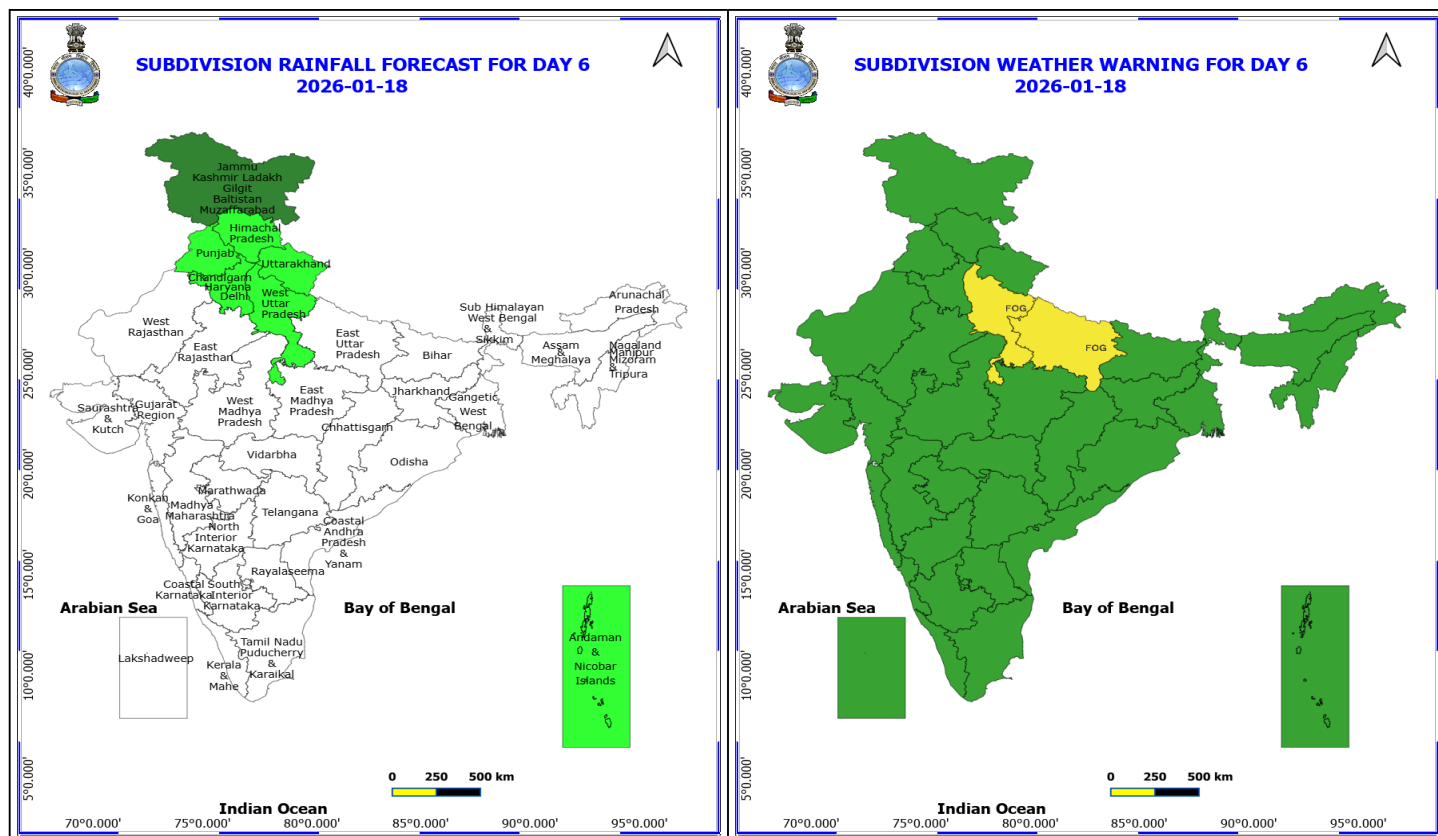
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## 18 January (Day 6)

❖ **Dense to Very Dense Fog** likely at isolated places over Uttar Pradesh.

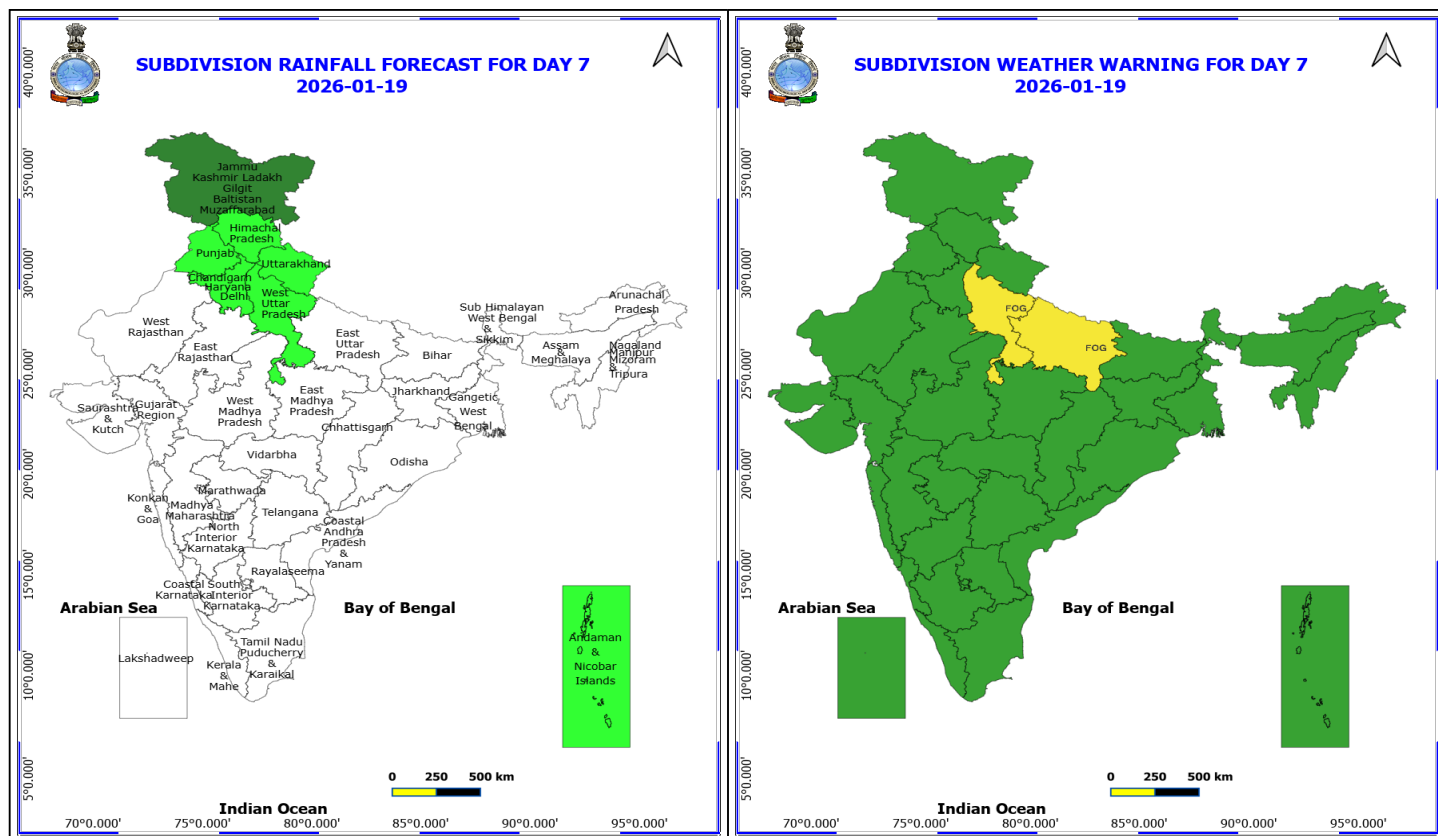
**No Fishermen Warning**

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## 19 January (Day 7)

❖ Dense to Very Dense Fog likely at isolated places over Uttar Pradesh.

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**Table-1**

## 7 Days Rainfall Forecast

S.No.	Subdivision	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	DRY	ISOL	ISOL	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	ISOL	ISOL
12	UTTARAKHAND	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	ISOL	FWS	SCT	SCT	SCT
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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	ISOL	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	ISOL	ISOL	DRY	DRY	DRY	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	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
35	KERALA	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
36	LAKSHDWEEP	FWS	SCT	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 2026-01-12

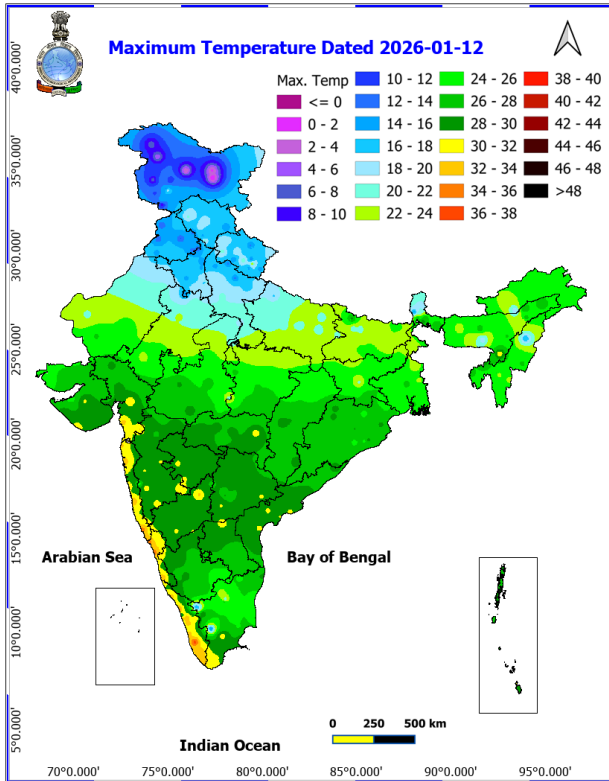


Fig. 2: Departure of Maximum Temp. Dated 2026-01-12

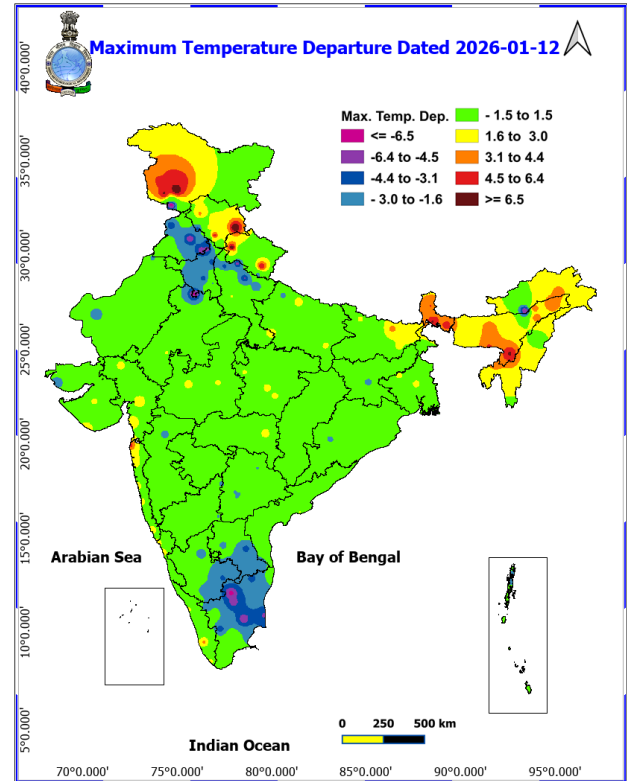


Fig. 3: Minimum Temperatures Dated 2026-01-12

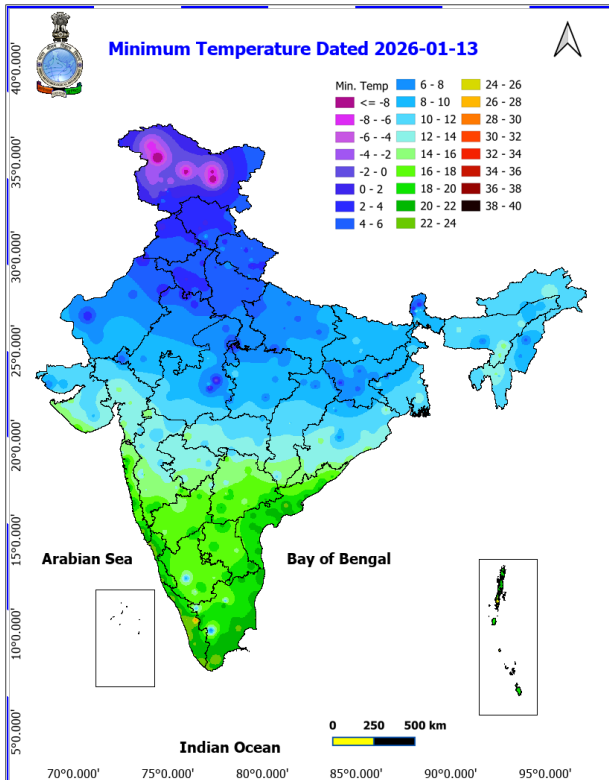
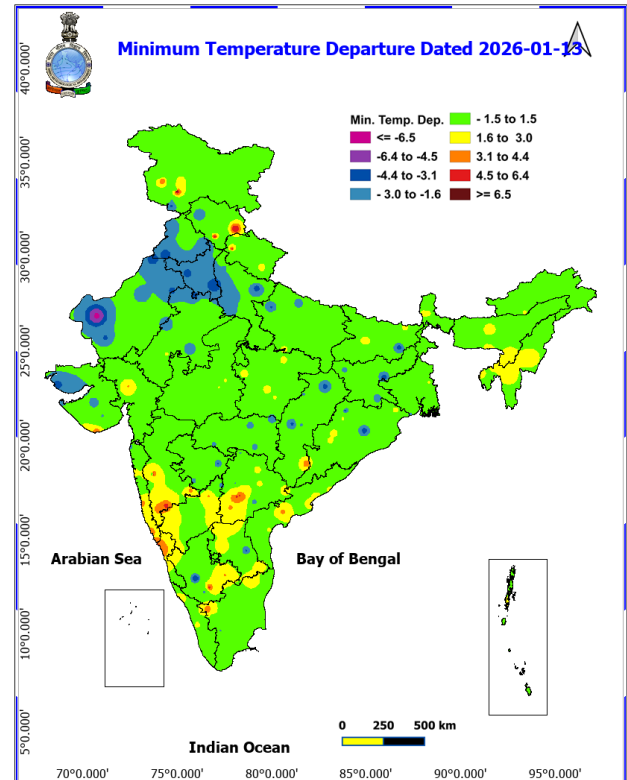
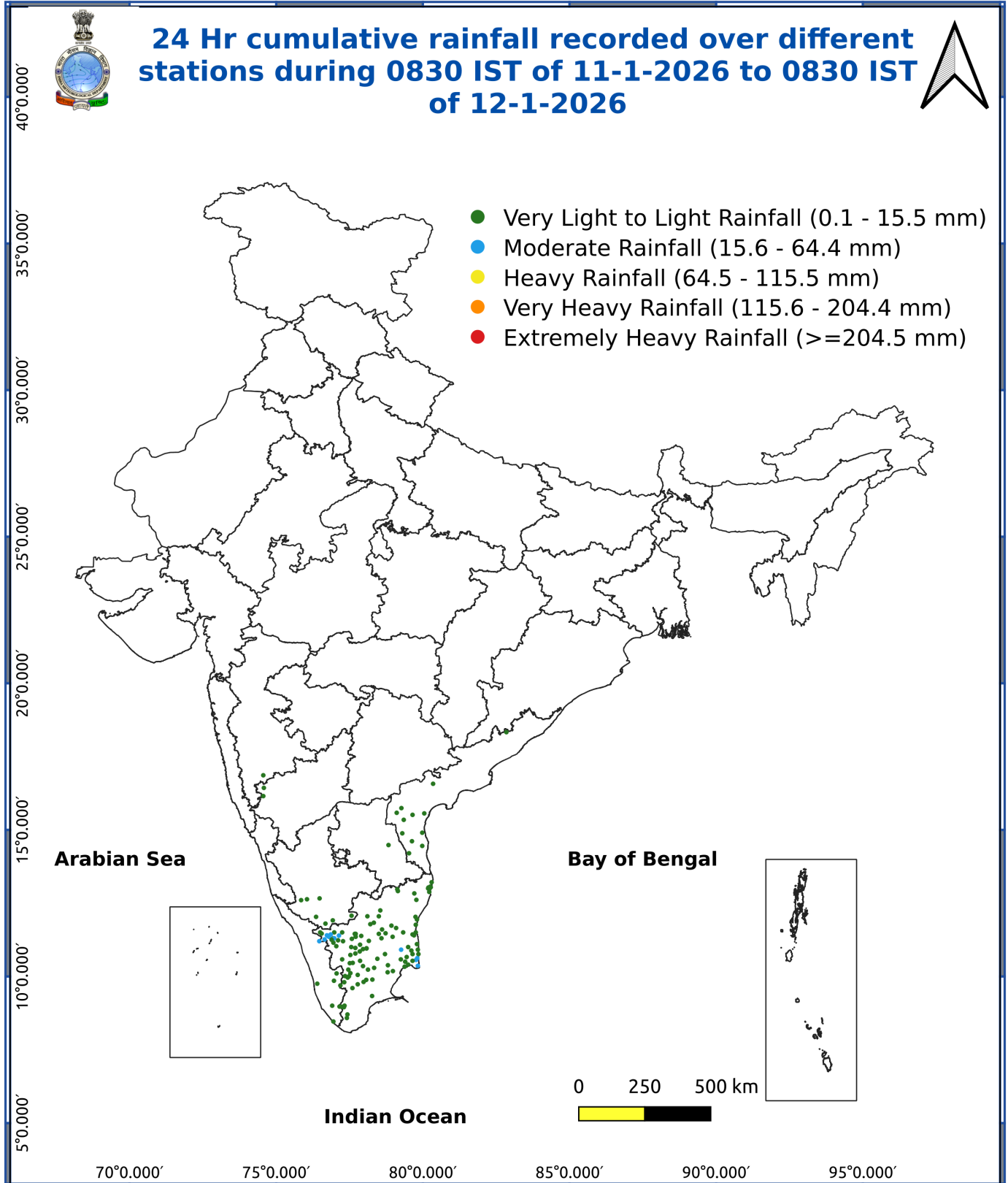


Fig. 4: Departure of Minimum Temp. Dated 2026-01-12





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## Impact and Actions

**Impact expected due to dense/very dense fog in the night/morning hours:** Dense to very dense fog conditions very likely to prevail in morning hours in isolated/some pockets over Haryana, Chandigarh & Delhi and Punjab till 14th and Dense fog in isolated pockets till 18th January 2026. Dense to very dense fog conditions very likely to prevail in morning hours in isolated/some pockets over West Uttar Pradesh till 19th; over East Uttar Pradesh during 17th -19th; Dense fog in isolated pockets of East Uttar Pradesh during 13th -16th January 2026. Dense fog conditions also likely during morning hours in isolated pockets over Jammu division till 16th; Himachal Pradesh, Uttarakhand and Bihar till 17th; over West Rajasthan till 13th; Sub-Himalayan West Bengal & Sikkim till 14th; Assam & Meghalaya on 16th & 17th January.

### 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 to Severe Cold wave conditions:

Cold wave to Severe Cold wave conditions very likely in isolated/some parts of Punjab, Haryana, Chandigarh on 13th & 14th and Rajasthan on 13th January. Cold wave conditions very likely in isolated pockets over Himachal Pradesh, West Uttar Pradesh on 13th & 14th; Rajasthan on 14th & 15th; Odisha during 13th-15th and Jharkhand during 13th-16th 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.

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- 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.

**Impact expected due to Cold Day conditions:**

Cold day to Severe Cold day conditions very likely in isolated pockets of Punjab, Haryana, Chandigarh on 13th; Cold day conditions in isolated pockets of Uttarakhand on 13th 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.
- Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

**Action suggested:**

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**Agromet advisories for various parts of the country**

**Agromet advisories for likely impact of Heavy Rainfall**

In **Tamil Nadu**, keep the harvested produce in safe places. Make necessary arrangements to drain out excess rainwater from the standing crops and vegetable fields. Provide staking to tomato, chilli, climbers, and vine vegetables. Strengthen supports and pandals in vegetable fields.

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

In **Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh, Rajasthan, Odisha and Jharkhand**, 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.

**Livestock / Poultry**

Keep the cattle in the sheds during night and provide dry bedding to protect them from cold.

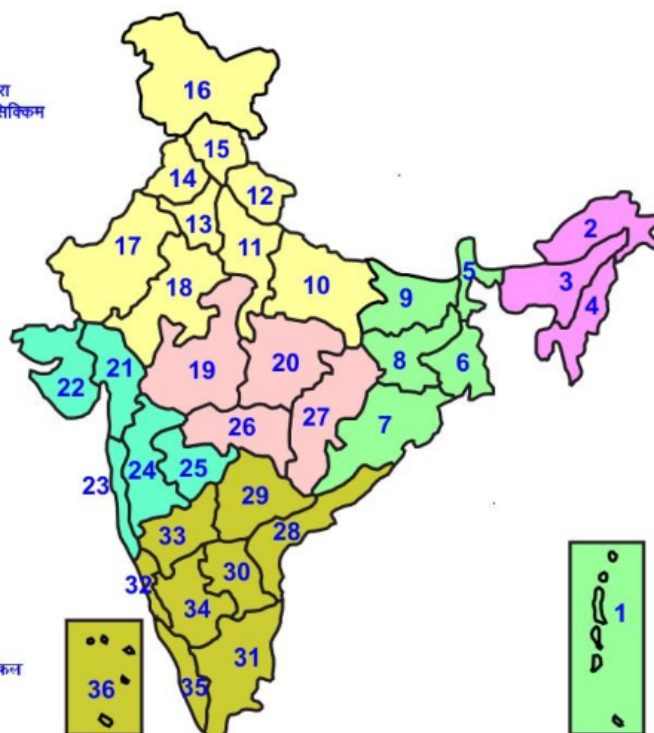
Keep the chicks warm by providing artificial light in the poultry sheds.

**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 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

(Service to the nation since 1875)



## LEGENDS

### WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT (BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING (NO ACTION)</b>

### 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 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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