

2026-01-17

Time of Issue: 08:12:00 hours IST  
(Morning)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and warning:

- Light/moderate isolated to scattered rainfall/snowfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 17<sup>th</sup>-22<sup>nd</sup> January and isolated rainfall over Punjab on 18<sup>th</sup>, 19<sup>th</sup> & 22<sup>nd</sup>; Haryana, Chandigarh on 19<sup>th</sup> & 22<sup>nd</sup> and West Uttar Pradesh on 22<sup>nd</sup> January.

#### Forecast of minimum temperatures:

- Gradual rise in minimum temperatures by 2-4°C likely over Northwest & Central India during next 48 hours and no significant change during subsequent 4 days.
- No significant change in minimum temperatures likely over East India during next 2 days; gradual rise by 2-4°C during subsequent 3 days and no significant change thereafter for subsequent 2 days.
- No significant change in minimum temperatures likely over Maharashtra during next 24 hours; gradual rise by 2-3°C during subsequent 3 days and no significant change during subsequent 3 days.
- Gradual rise in minimum temperatures by 2-3°C likely over Gujarat State during next 24 hours and no significant change during subsequent 5 days.
- No significant change in minimum temperatures likely 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/night hours in isolated pockets over Uttarakhand till 18<sup>th</sup> and **Dense fog** in isolated pockets till 21<sup>st</sup> January.
- **Dense to very dense fog** conditions very likely to prevail in morning/night hours in some parts over Punjab, Haryana Chandigarh till 17<sup>th</sup> and **Dense fog** in isolated pockets till 22<sup>nd</sup> January.
- **Dense to very dense fog** conditions very likely to prevail in morning/night hours in many/some parts over West Uttar Pradesh till 19<sup>th</sup> and East Uttar Pradesh till 20<sup>th</sup>; **Dense fog** in isolated pockets over East Uttar Pradesh on 21<sup>st</sup> January.
- **Dense fog** conditions also likely during morning/night hours in isolated pockets over Bihar during 17<sup>th</sup>-20<sup>th</sup>; Assam & Meghalaya till 18<sup>th</sup> and West Bengal & Sikkim till 19<sup>th</sup> January.
- **Cold day** conditions likely in isolated pockets of Uttarakhand, West Uttar Pradesh on 17<sup>th</sup>; East Uttar Pradesh on 17<sup>th</sup> & 18<sup>th</sup> January.
- **Cold wave conditions** very likely in isolated pockets over Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh, West Madhya Pradesh, Jharkhand, Odisha on 17<sup>th</sup> and East Madhya Pradesh & Chhattisgarh on 17<sup>th</sup> & 18<sup>th</sup> January.

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**Main Weather Observations:**

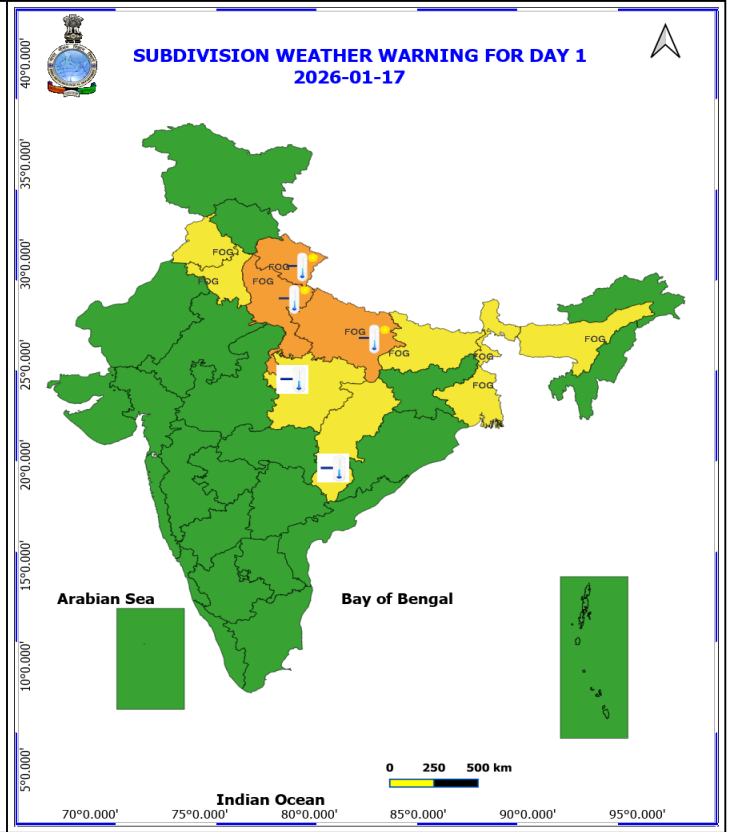
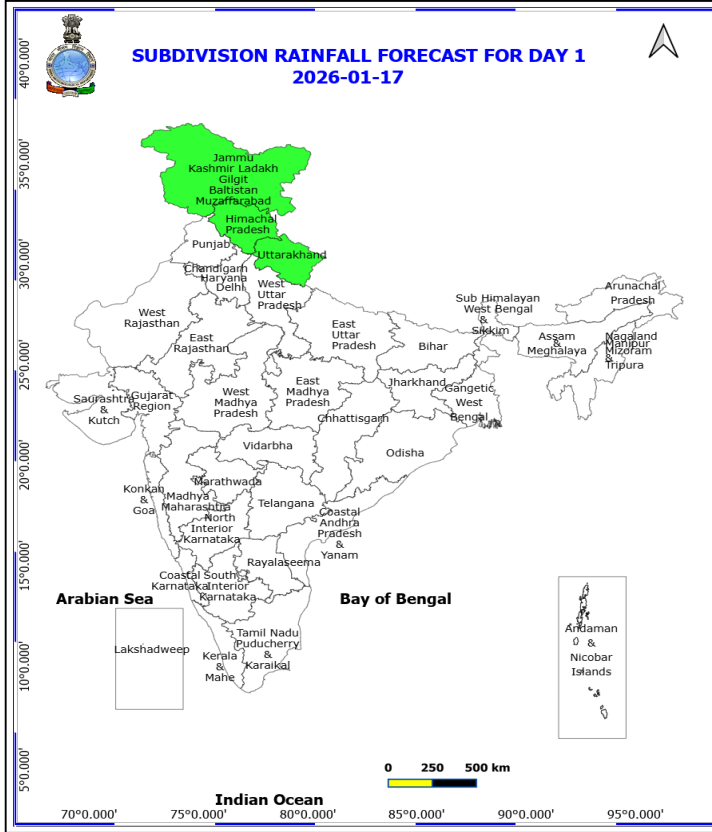
- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at isolated places** over Jammu & Kashmir and Ladakh; **Dry** over rest of the country.
- ❖ **Fog Condition Observed (at 0530 hours of today): Very dense fog conditions:** at a few places over Punjab, East Uttar Pradesh
- ❖ **Visibility reported (at 0530 hours of today):** Punjab: Amritsar (rajasansi) AP (dist Amritsar) 0, Patiala (dist Patiala) 50; East Uttar Pradesh: Gorakhpur (dist Gorakhpur) 0, Kanpur (dist Kanpur) 0;.
- ❖ **Minimum Temperature Departures (as on 16-01-2026): below normal (-3°C to -6°C)** over Haryana, Delhi, East Rajasthan, Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Chhattisgarh, Gangetic West Bengal, Odisha and near normal over rest parts of the country. The lowest minimum temperature of **0.9°C** was observed at Ballawal Saunkhri (**Punjab**) over the plains of India.
- ❖ **Maximum Temperature Departures (as on 16-01-2026):** Maximum Temperatures departures are **appreciably above normal ( 3.1 to 5.0 °C)** at a few places over Rajasthan and Assam & Meghalaya; **above normal ( 1.6 to 3.0°C)** at a few places over Madhya Pradesh, Lakshadweep, Andaman & Nicobar Islands; **markedly below normal ( -5.1°C or less)** at a few places over West Uttar Pradesh; **appreciably below normal (-5.0°C to -3.1°C)** at isolated places over Punjab; **below normal (-3.0°C to -1.6°C)** at isolated places over Odisha. **The highest maximum temperature** of 38.0°C is reported at Bhira (KONKAN & GOA).

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

- Conditions are becoming favourable for cessation of **Northeast monsoon** rains over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and adjoining areas of Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka during next 48 hours.
- The **upper air cyclonic circulation** over Southeast Arabian sea adjoining Lakshadweep and Kerala coast at 0.9 km above mean sea level persists.
- The **Western Disturbance** as a cyclonic circulation over northeast Iran & neighbourhood at 3.1 km above mean sea level with the trough aloft in middle and upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 57°E to the north of Lat. 25°N persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 115 knots at 12.6 km above mean sea level prevails over North India.
- Another fresh **Western disturbance** is likely to affect Northwest India from 19<sup>th</sup> January, 2026.

### Weather Outlook for subsequent 3 days

- Scattered to Fairly widespread activity likely over Western Himalayan Region, Punjab, Haryana, Delhi.
- isolated/scattered rainfall activity is likely over West Uttar Pradesh.
- Isolated rainfall activity is likely over Lakshadweep and Nicobar islands.



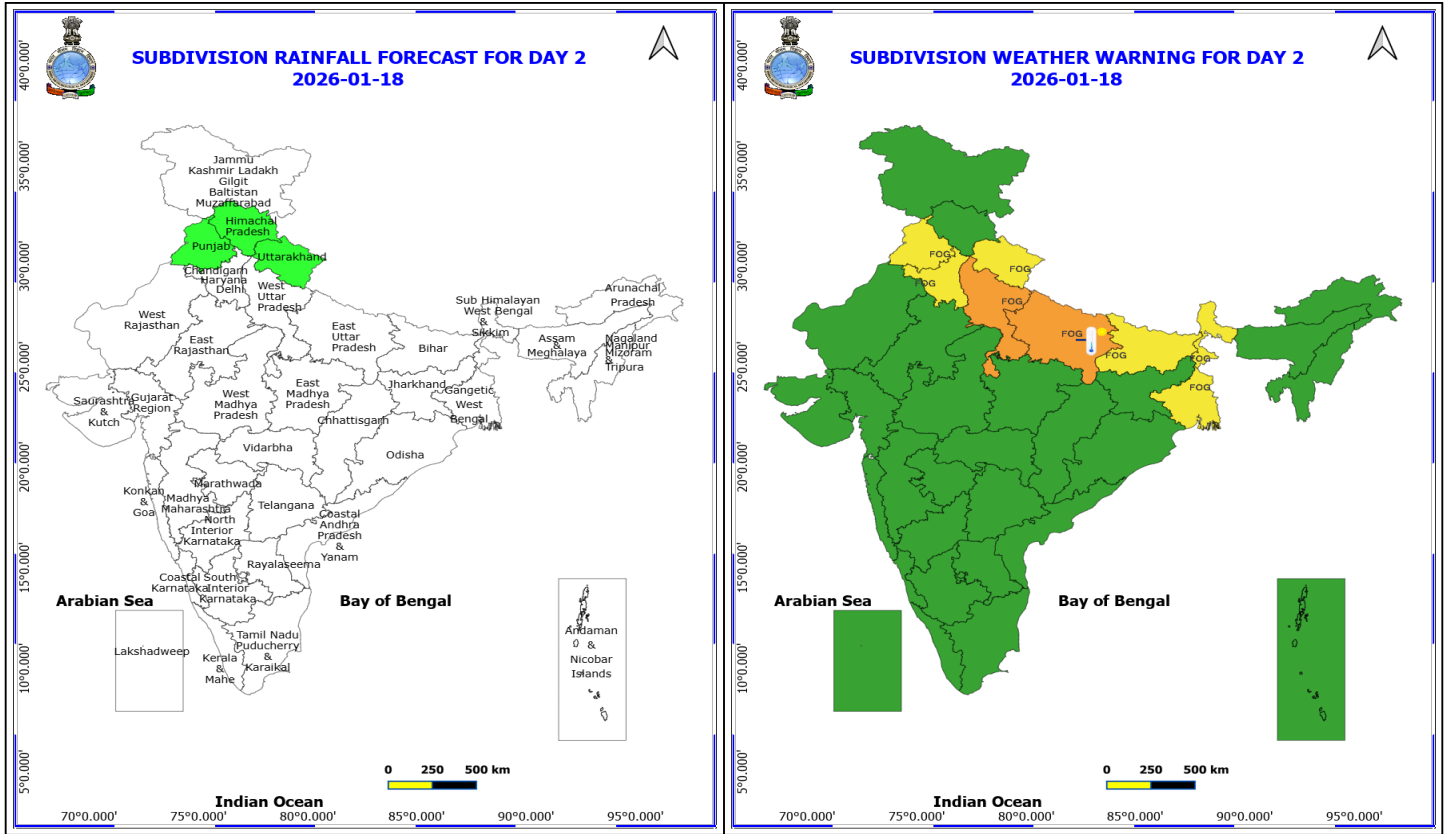
**17 January (Day 1)**

- ❖ **Cold wave conditions** very likely at isolated places over Chhattisgarh and East Madhya Pradesh.
- ❖ **Cold Day conditions** very likely at isolated places over Uttar Pradesh and Uttarakhand.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Punjab and West Bengal & Sikkim.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Uttar Pradesh and Uttarakhand.

**No Fishermen Warning**

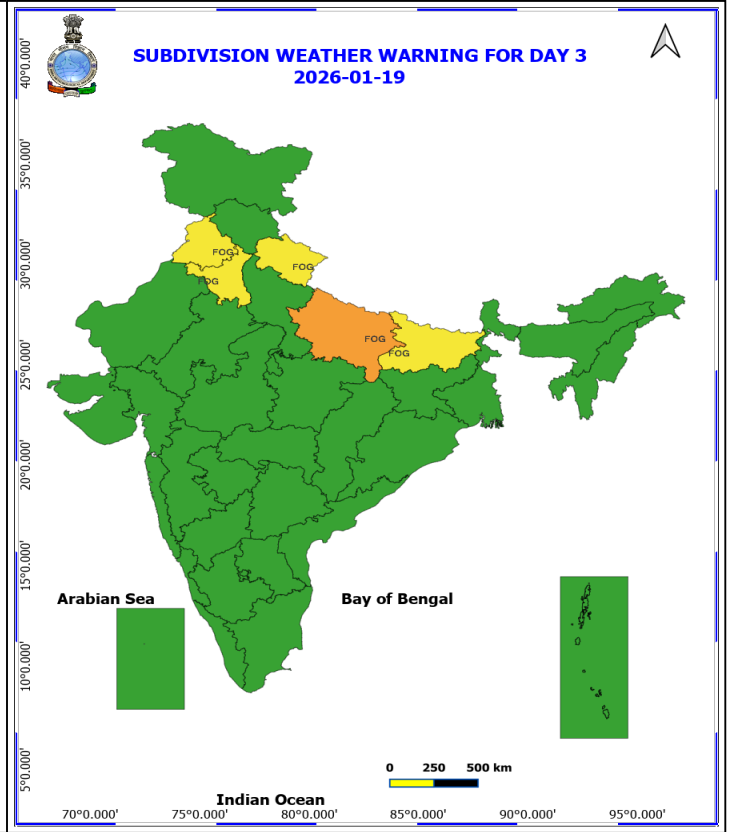
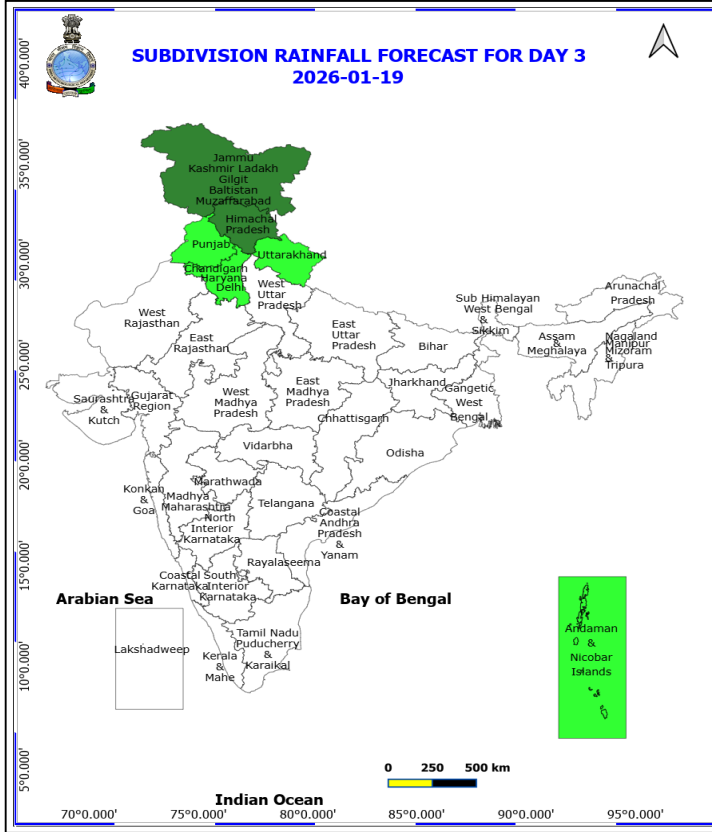
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**18 January (Day 2)**

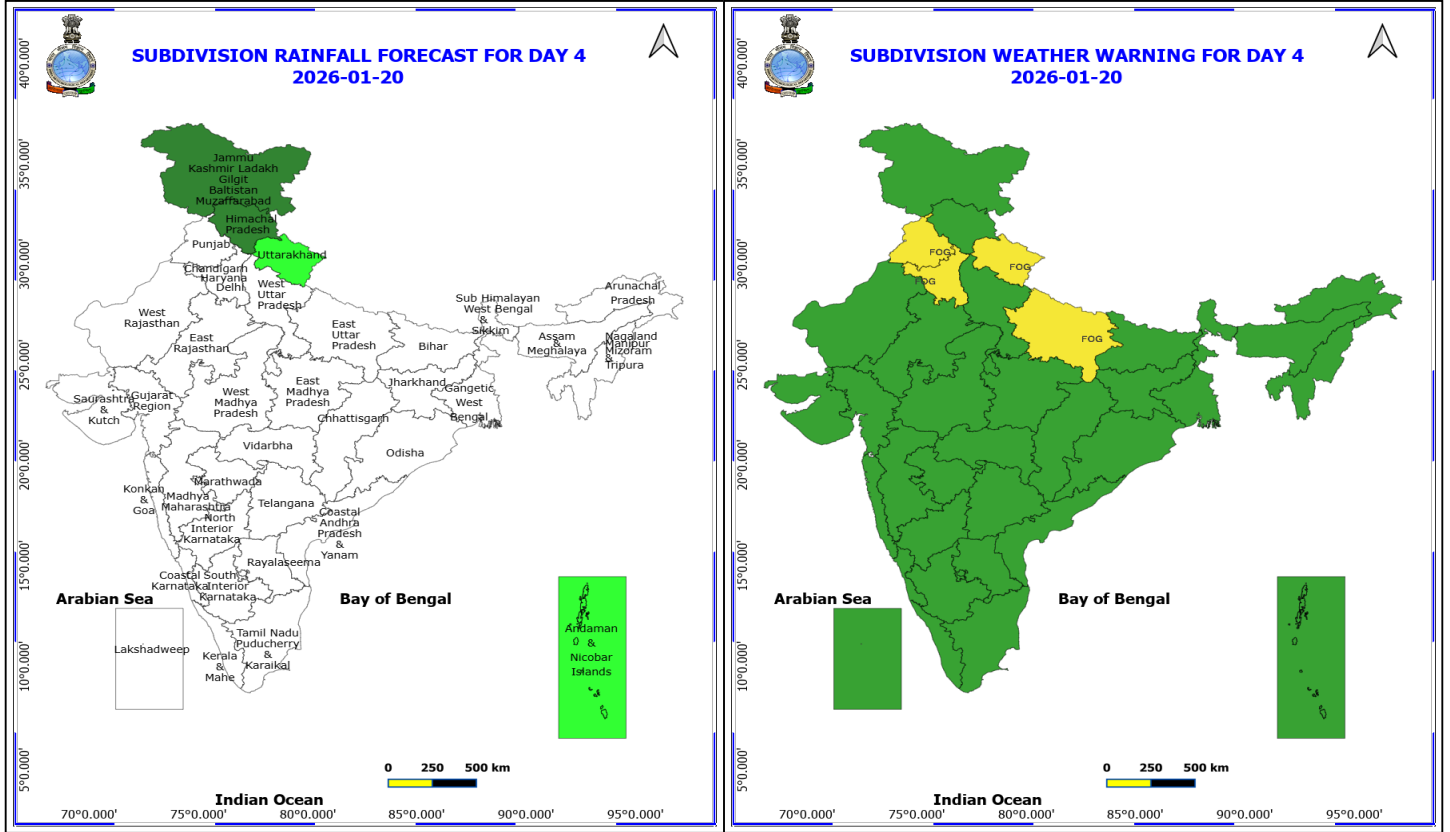
- ❖ **Cold Day conditions** very likely at isolated places over East Uttar Pradesh.
  - ❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Punjab, Uttarakhand and West Bengal & Sikkim.
  - ❖ **Dense to Very Dense Fog** very likely at isolated places over Uttar Pradesh.
- No Fishermen Warning**



**19 January (Day 3)**

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

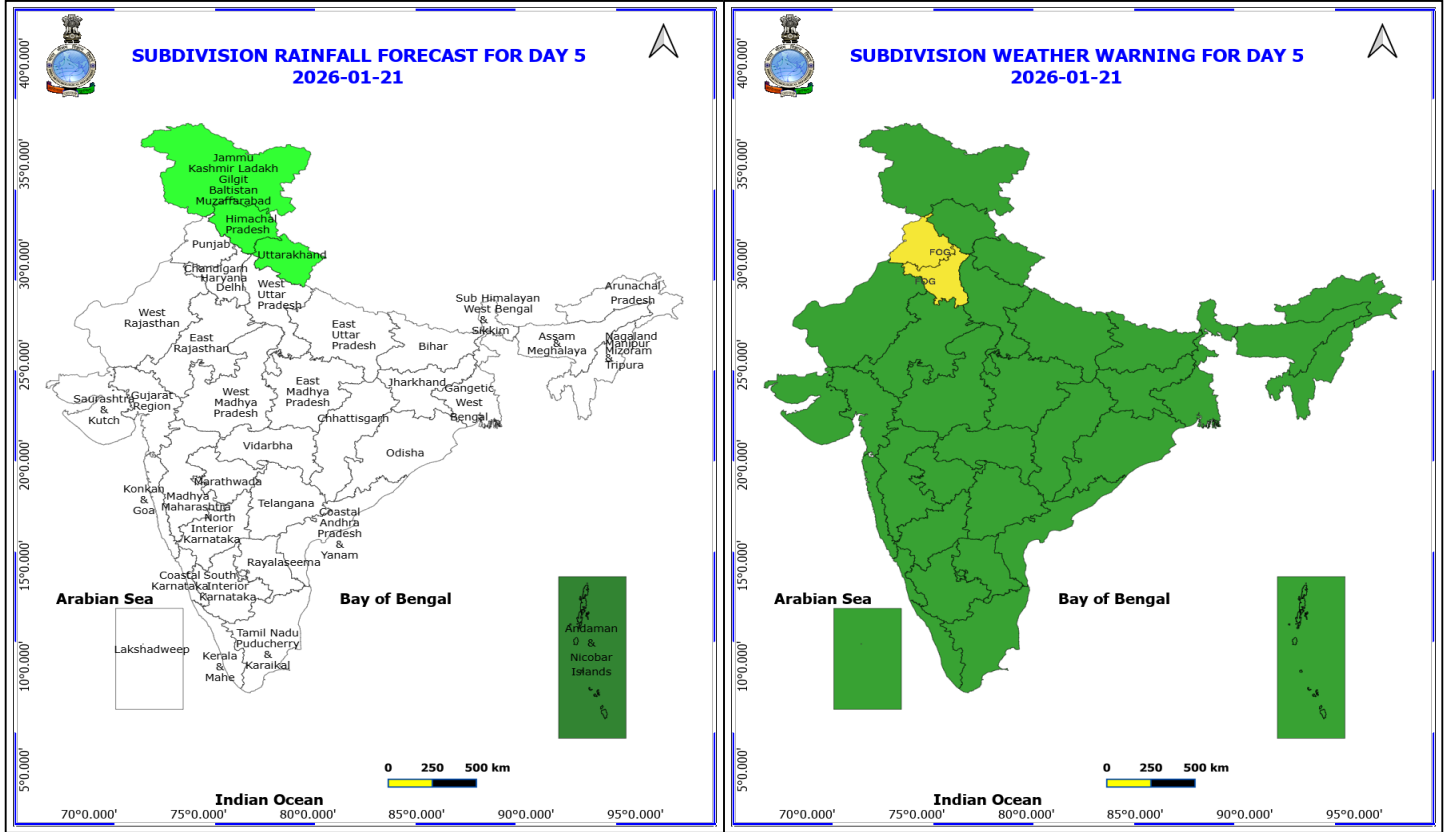
**No Fishermen Warning**



**20 January (Day 4)**

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

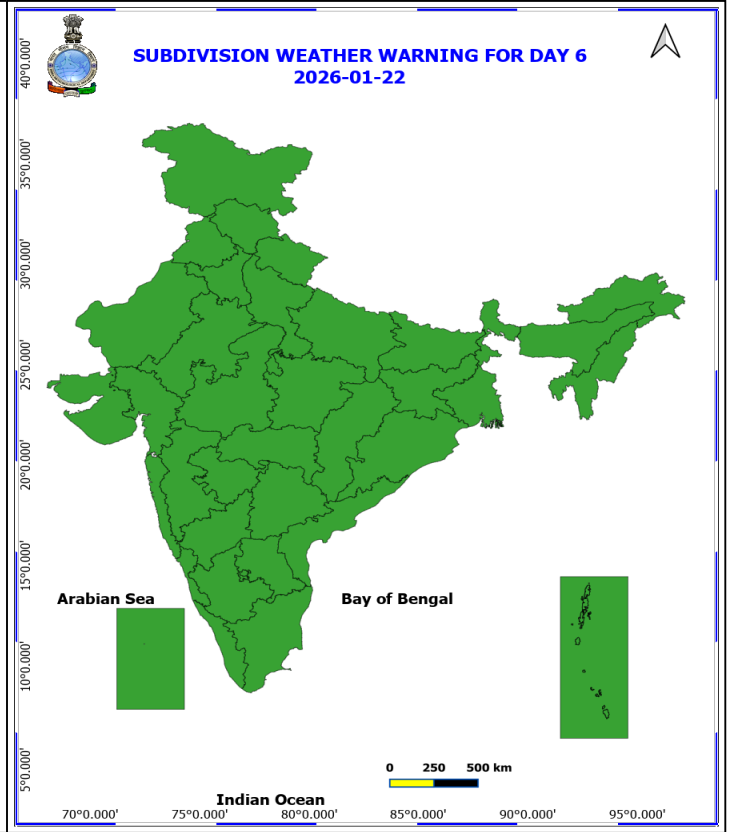
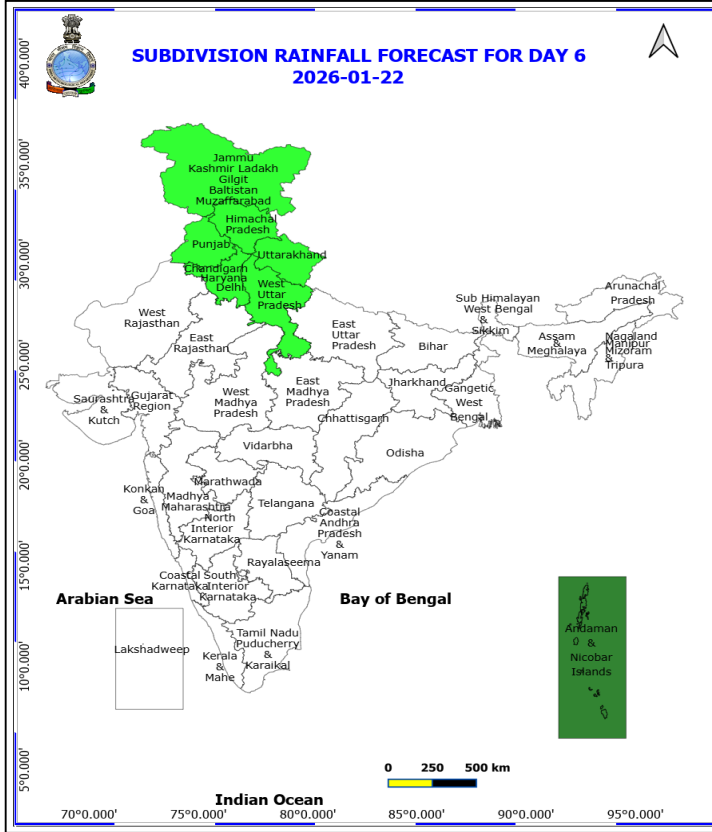
**No Fishermen Warning**



**21 January (Day 5)**

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

**No Fishermen Warning**

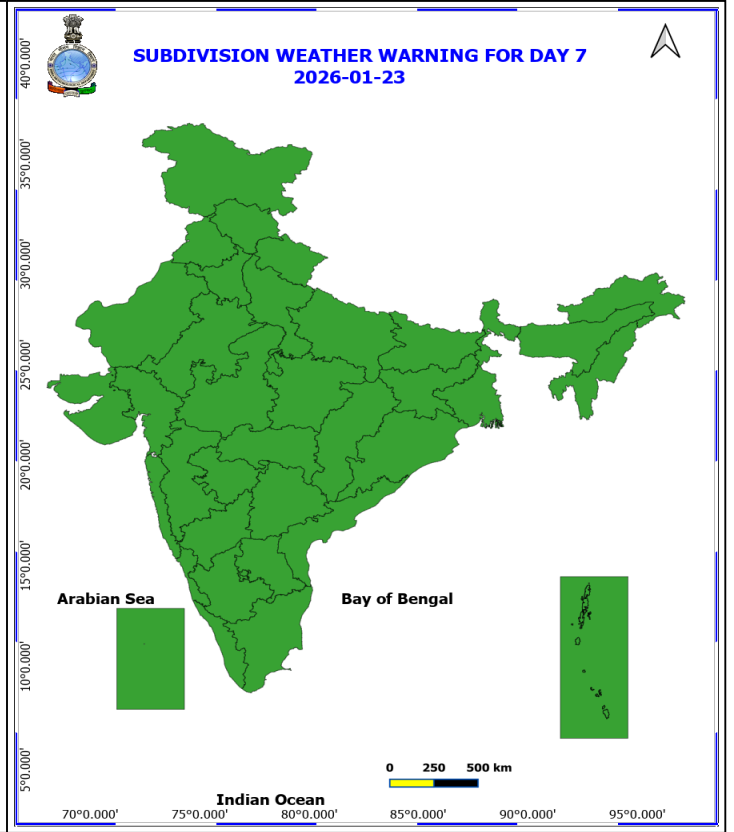
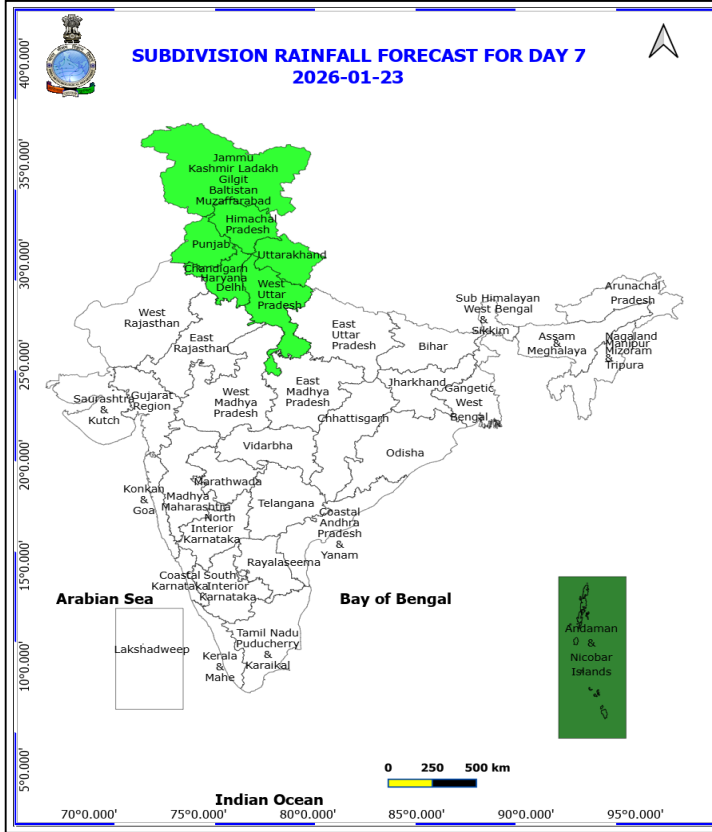


**22 January (Day 6)**

No Weather Warning

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**23 January (Day 7)**

No Weather Warning

No Fishermen Warning



## Table-1

### 7 Days Rainfall Forecast

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

Legend	Category	%Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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Fig. 1: Maximum Temperatures Dated 2026-01-16

Fig. 2: Departure of Maximum Temp. Dated 2026-01-16

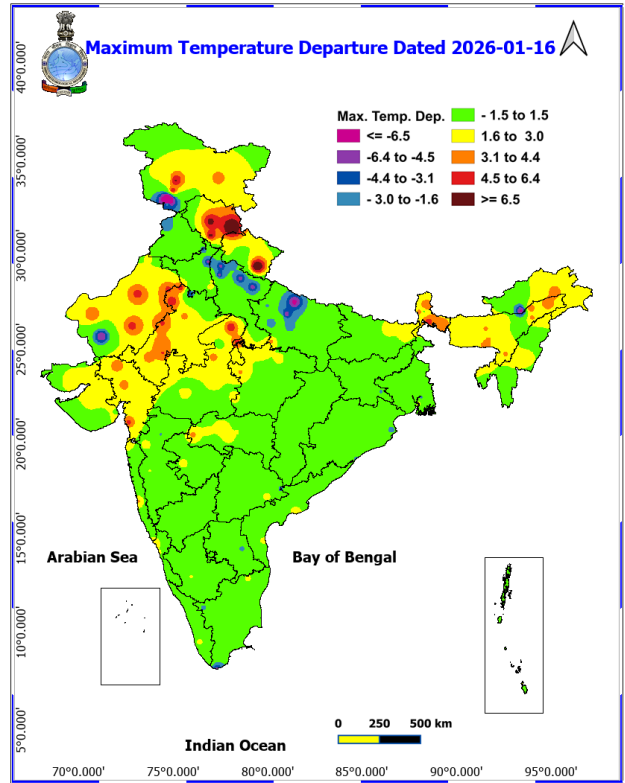
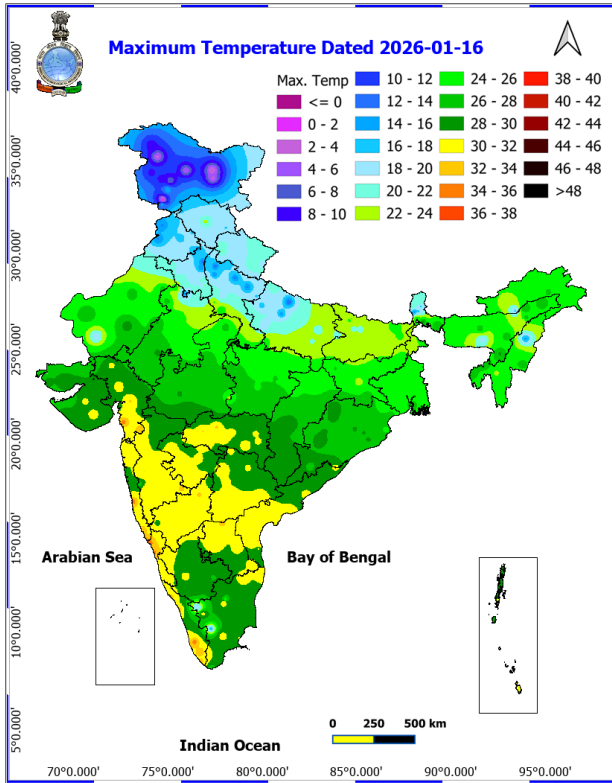
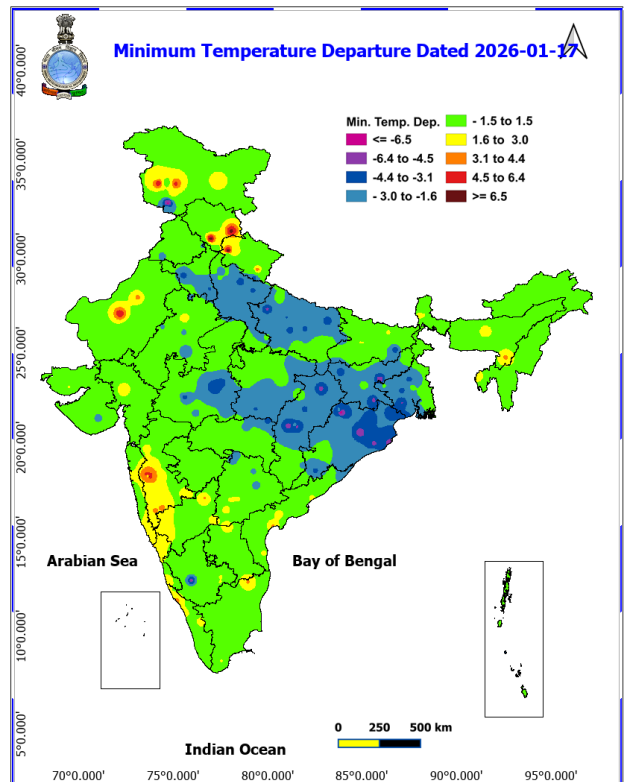
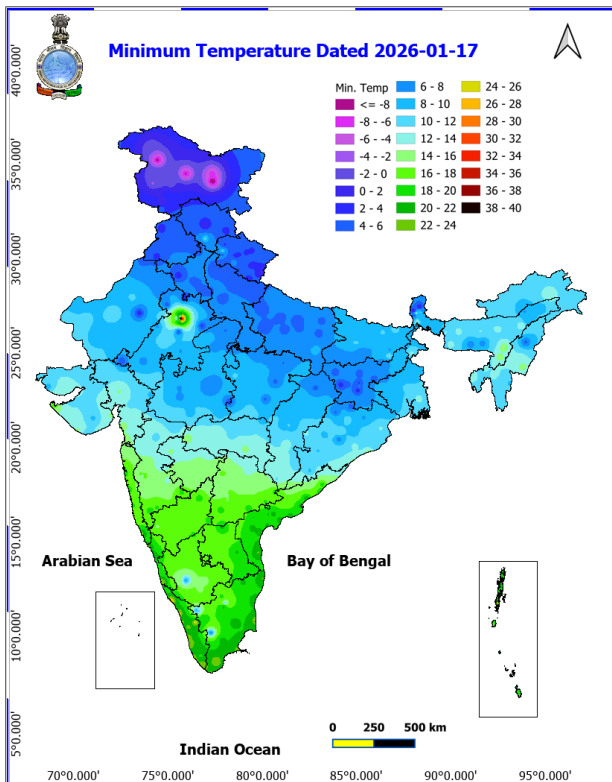


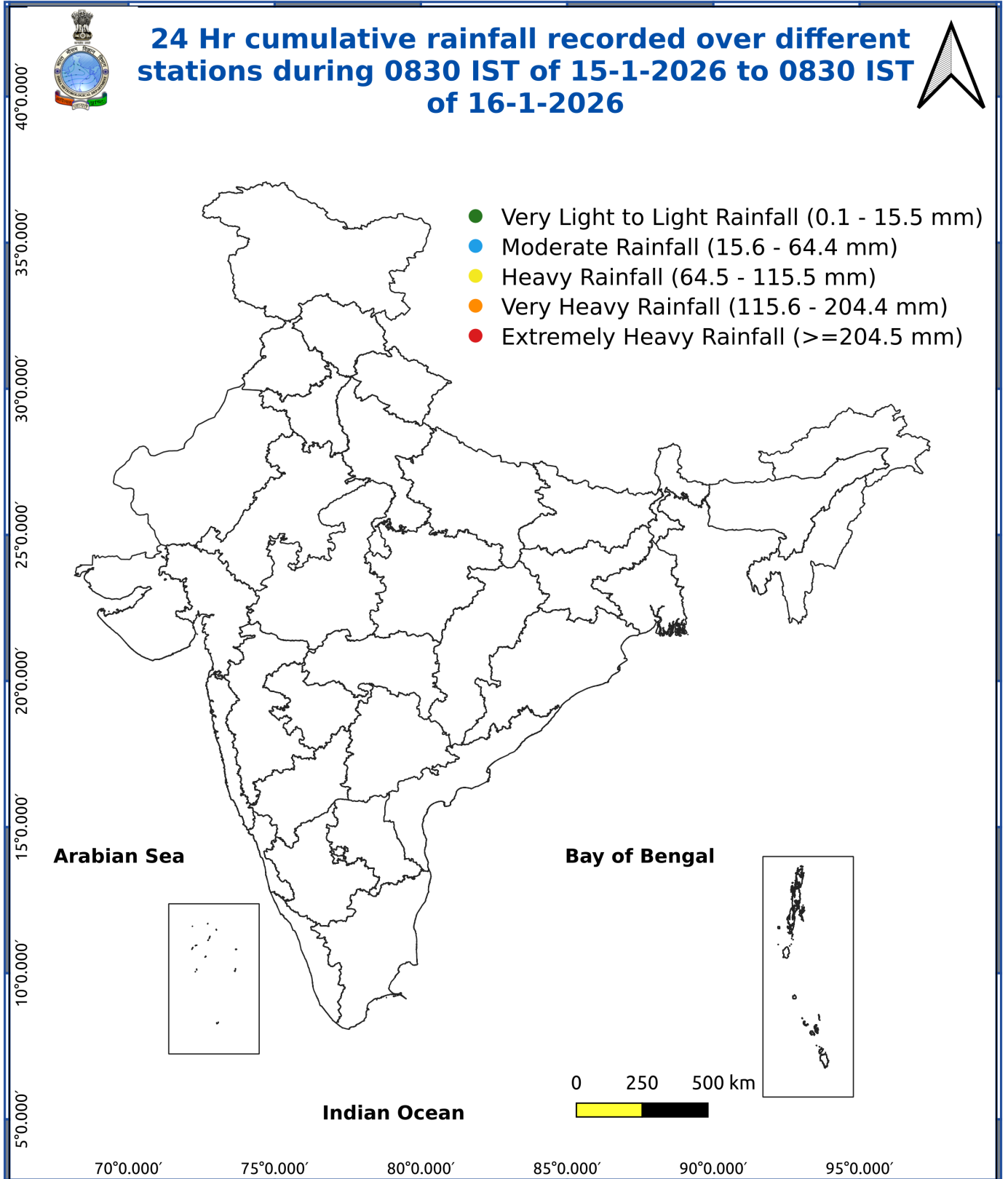
Fig. 3: Minimum Temperatures Dated 2026-01-16

Fig. 4: Departure of Minimum Temp. Dated 2026-01-16



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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 very likely to prevail in morning/night hours in isolated pockets over Uttarakhand till 18<sup>th</sup> and **Dense fog** in isolated pockets till 21<sup>st</sup> January.
- **Dense to very dense fog** conditions very likely to prevail in morning/night hours in some parts over Punjab, Haryana Chandigarh till 17<sup>th</sup> and **Dense fog** in isolated pockets till 22<sup>nd</sup> January.
- **Dense to very dense fog** conditions very likely to prevail in morning/night hours in many/some parts over West Uttar Pradesh till 19<sup>th</sup> and East Uttar Pradesh till 20<sup>th</sup>; **Dense fog** in isolated pockets over East Uttar Pradesh on 21<sup>st</sup> January.
- **Dense fog** conditions also likely during morning/night hours in isolated pockets over Bihar during 17<sup>th</sup>-20<sup>th</sup>; Assam & Meghalaya till 18<sup>th</sup> and West Bengal & Sikkim till 19<sup>th</sup> 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 conditions** very likely in isolated pockets over Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh, West Madhya Pradesh, Jharkhand, Odisha on 17<sup>th</sup> and East Madhya Pradesh & Chhattisgarh on 17<sup>th</sup> & 18<sup>th</sup> January.
- An increased likelihood of various illnesses like flu, running/ stuffy nose or nosebleed, which usually set in or

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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.

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

- **Cold day** conditions likely in isolated pockets of Uttarakhand, West Uttar Pradesh on 17<sup>th</sup>; East Uttar Pradesh on 17<sup>th</sup> & 18<sup>th</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.
- Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

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### Agromet advisories for various parts of the country

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

In **Himachal Pradesh, Uttarakhand, Punjab, Haryana, Odisha, Jharkhand, Madhya Pradesh** and **Chhattisgarh**, 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 & 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.

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

### Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- ALERT (BE PREPARED TO TAKE ACTION)
- WARNING (TAKE ACTION)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

- |                          |                 |                      |                    |
|--------------------------|-----------------|----------------------|--------------------|
| Heavy Rain               | Very Heavy Rain | Extremely Heavy Rain | Heavy Snow         |
| Thunderstorm & Lightning | Hailstorm       | Dust Storm           | Dust Raising Winds |
| Strong surface winds     | Heat Wave       | Hot Day              | Warm Night         |
| Cold Wave                | Cold Day        | Ground Frost         | Fog                |
| Hot & Humid              |                 |                      |                    |

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

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

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

(Service to the nation since 1875)

## 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



Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *



Heat Wave

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  $\geq 37^{\circ}\text{C}$



Warm Night

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 $> 6.4^{\circ}\text{C}$ .



Cold Wave

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  $\leq 15^{\circ}\text{C}$



Cold Day

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 $\leq -6.5^{\circ}\text{C}$



Fog

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



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ ( over Plains)
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Squall

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



Sea State

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



Cyclone

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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