



2026-01-11

Time of Issue: 20:03:00 hours IST  
(Night)

### ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

#### Significant Weather Features

#### Weather Forecast and warning:

- Heavy rainfall very likely at isolated places over Tamil Nadu on 11<sup>th</sup>-12<sup>th</sup> January, 2026.

#### Forecast of minimum temperatures:

- No significant change in minimum temperature likely over northwest India during next 3 days and gradual rise by 2-3°C during subsequent 4 days.
- No significant change in minimum temperature likely over Central India during next 4 days and gradual rise by 2-4°C during subsequent 3 days.
- Gradual fall in minimum temperature likely over East and northeast India by 2-3°C during next 2-3 days and thereafter no significant change for subsequent 4-5 days.
- Gradual rise in minimum temperature likely over Maharashtra by 2-3°C during next 2 days and thereafter no significant change for next 5 days.
- No significant change in minimum temperature over rest 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 pockets over Uttar Pradesh till 13<sup>th</sup> and Dense fog in isolated pockets till 18<sup>th</sup> January 2026.
- Dense to very dense fog** conditions very likely to prevail in morning hours in isolated parts over Bihar till 12<sup>th</sup> January and Dense fog in isolated pockets till 17<sup>th</sup> January 2026.
- Dense fog** conditions also likely during morning hours in isolated/some pockets over Jammu division, Himachal Pradesh, Uttarakhand, Punjab till 16<sup>th</sup>, Haryana Chandigarh & Delhi till 17<sup>th</sup>; West Rajasthan till 13<sup>th</sup>; East Rajasthan and Sub-Himalayan West Bengal & Sikkim till 14<sup>th</sup>; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 14<sup>th</sup> January.
- Cold day conditions** likely to prevail in isolated parts over Rajasthan on 11<sup>th</sup>; Bihar during 11<sup>th</sup> -16<sup>th</sup> January.
- Cold wave to Severe Cold wave** conditions very likely in many/some pockets of Rajasthan on 12<sup>th</sup> & 13<sup>th</sup> and cold wave conditions on 14<sup>th</sup> January.
- Cold wave to Severe Cold wave** conditions very likely in isolated pockets of Himachal Pradesh till 13<sup>th</sup> and cold wave conditions on 14<sup>th</sup> January.
- Cold wave to Severe Cold wave** conditions very likely in isolated pockets of Uttarakhand on 12<sup>th</sup> and cold wave conditions on 13<sup>th</sup> & 14<sup>th</sup> January.
- Cold wave to Severe Cold wave** conditions very likely in isolated pockets of Punjab, Haryana Chandigarh & Delhi on 12<sup>th</sup> and cold wave conditions on 13<sup>th</sup> January.
- Cold wave to Severe Cold wave** conditions very likely in isolated pockets of West Uttar Pradesh on 13<sup>th</sup> and cold wave conditions on till 14<sup>th</sup> January.
- Cold wave conditions** very likely in isolated pockets over Jharkhand during 14<sup>th</sup> – 16<sup>th</sup>; Kutch on 12<sup>th</sup> & 13<sup>th</sup> January.

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#### Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): **at many places** over Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST to 1730 hours IST of today): **Tamilnadu Puducherry & Karaikal**: Kodaikanal (dist Dindigul) 1.
- ❖ **Cold wave to severe cold wave** conditions prevailed in some places over Himachal Pradesh, Punjab, Uttarakhand, Haryana, Chandigarh & Delhi and Rajasthan and **Cold wave** conditions prevailed over Jharkhand.
- Cold day to Severe cold day** conditions prevailed over isolated pockets of west Rajasthan.
- ❖ **Ground frost conditions** have been recorded in isolated pockets over Uttarakhand.
- ❖ Minimum Temperature Departures (as on 11-01-2026): below normal (-1.6°C to -3.0°C) at isolated places over Himachal Pradesh, West Uttar Pradesh, Uttarakhand, Madhya Pradesh, Marathwada, Madhya Maharashtra, Konkan & Goa. appreciably below normal (-5.0°C to -3.1°C) at few places over Haryana-Chandigarh-Delhi; at isolated places over East Rajasthan, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Odisha, Telangana, Vidarbha, Interior Karnataka, Rayalaseema, Tamil Nadu, Puducherry & Karaikal. markedly below normal (< -5.0°C ) at isolated places over West Rajasthan, Saurashtra & Kutch. **The lowest minimum temperature of 1.2°C is reported at Pilani (RAJASTHAN) over the Plains of India.**
- ❖ **Maximum Temperature Departures (as on 11-01-2026): below normal**(-1.6°C to -3.0°C) at few places over West Rajasthan and Rayalaseema; at isolated places over South Interior Karnataka. **The highest maximum temperature** of 35.5°C is reported at HONAVAR (KARNATAKA).

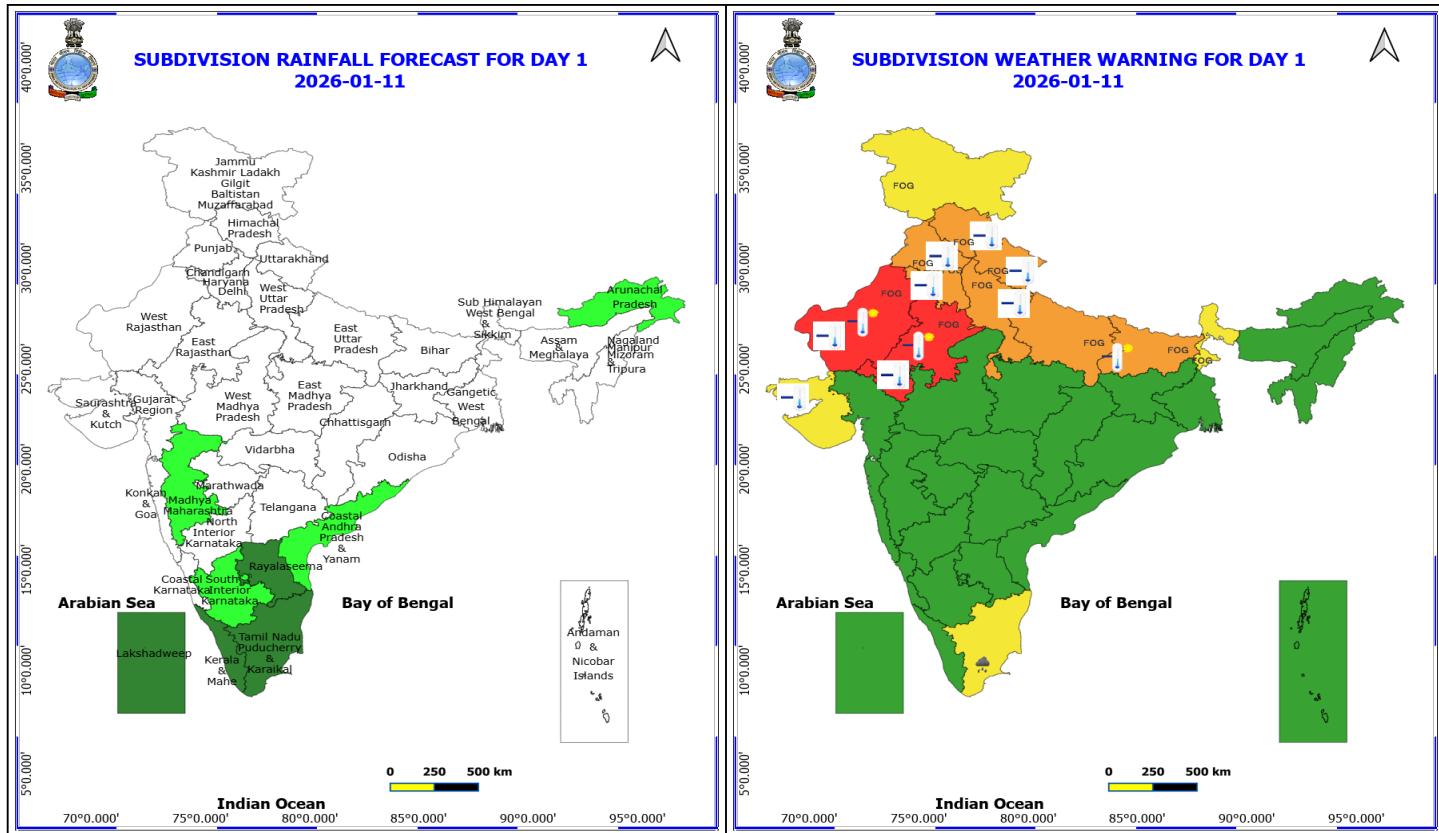


### Meteorological Analysis (Based on 1730 hours IST)

- The **upper air cyclonic circulation** over south coastal Tamil Nadu and adjoining Gulf of Mannar at 0.9 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 95 knots at 12.6 km above mean sea level prevails 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. 56°E to the north of Lat. 23°N.
- A fresh Western disturbance is likely to affect Western Himalayan region from 15<sup>th</sup> January, 2025.

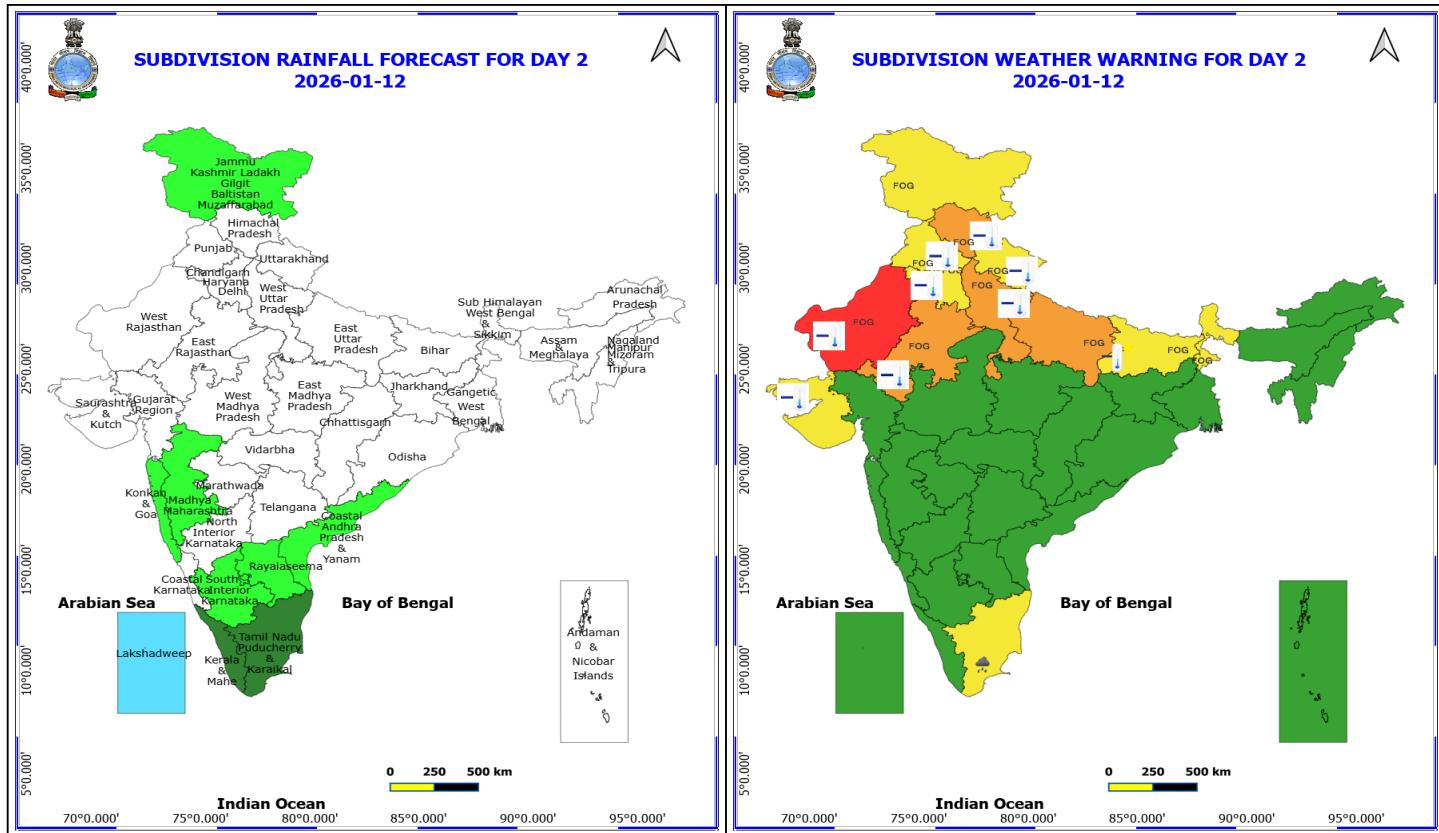
### Weather Outlook for subsequent 3 days

- 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.



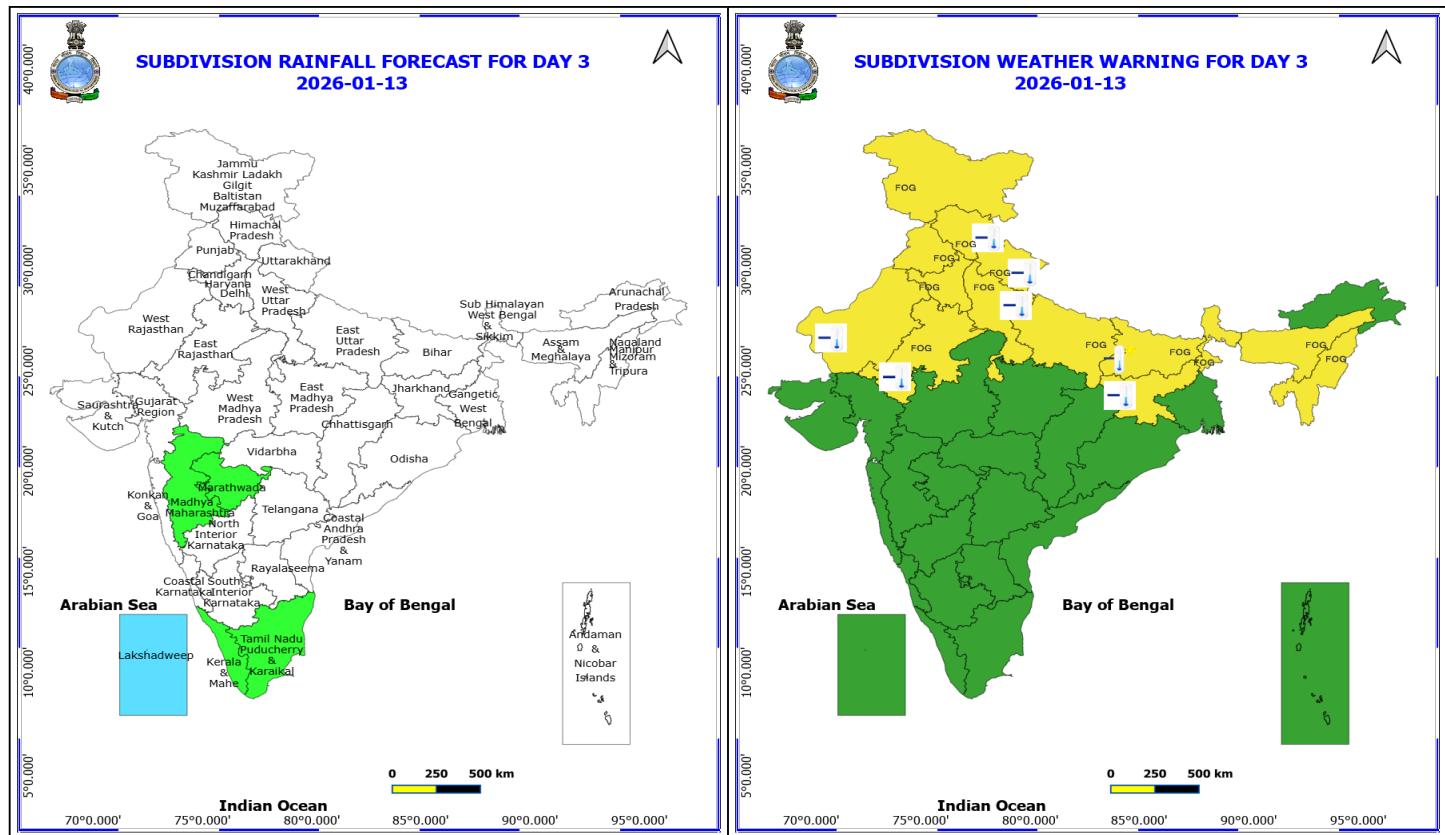
## 11 January (Day 1)

- ❖ **Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Saurashtra & Kutch and West Uttar Pradesh.
- ❖ **Cold wave to Severe Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Punjab, Rajasthan and Uttarakhand.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar and Rajasthan.
- ❖ **Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Rajasthan, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Bihar 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 many parts of southwest Bay of Bengal & adjoining, along and off Tamil Nadu coast, over Gulf of Mannar and adjoining, some parts of Comorin area.



## 12 January (Day 2)

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



### 13 January (Day 3)

- ❖ **Cold wave conditions** very likely at isolated places over Himachal Pradesh, Jharkhand, Rajasthan, Uttarakhand and West Uttar Pradesh.
- ❖ **Cold Day conditions** very likely at isolated places over Bihar.
- ❖ **Dense Fog** very likely at isolated places over Assam & Meghalaya, Bihar, East Rajasthan, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram and Tripura, Punjab, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.

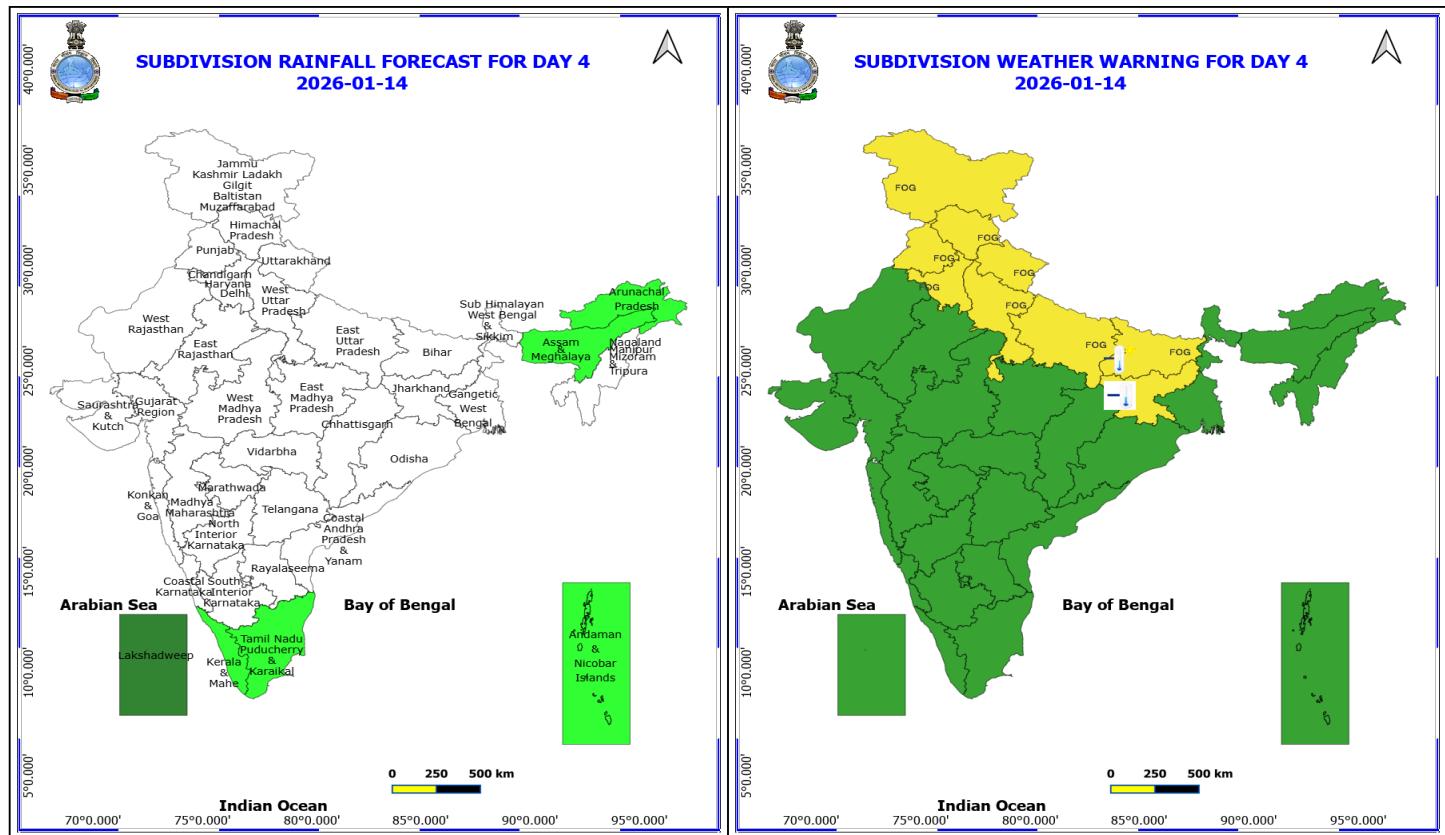
**No Fishermen Warning**

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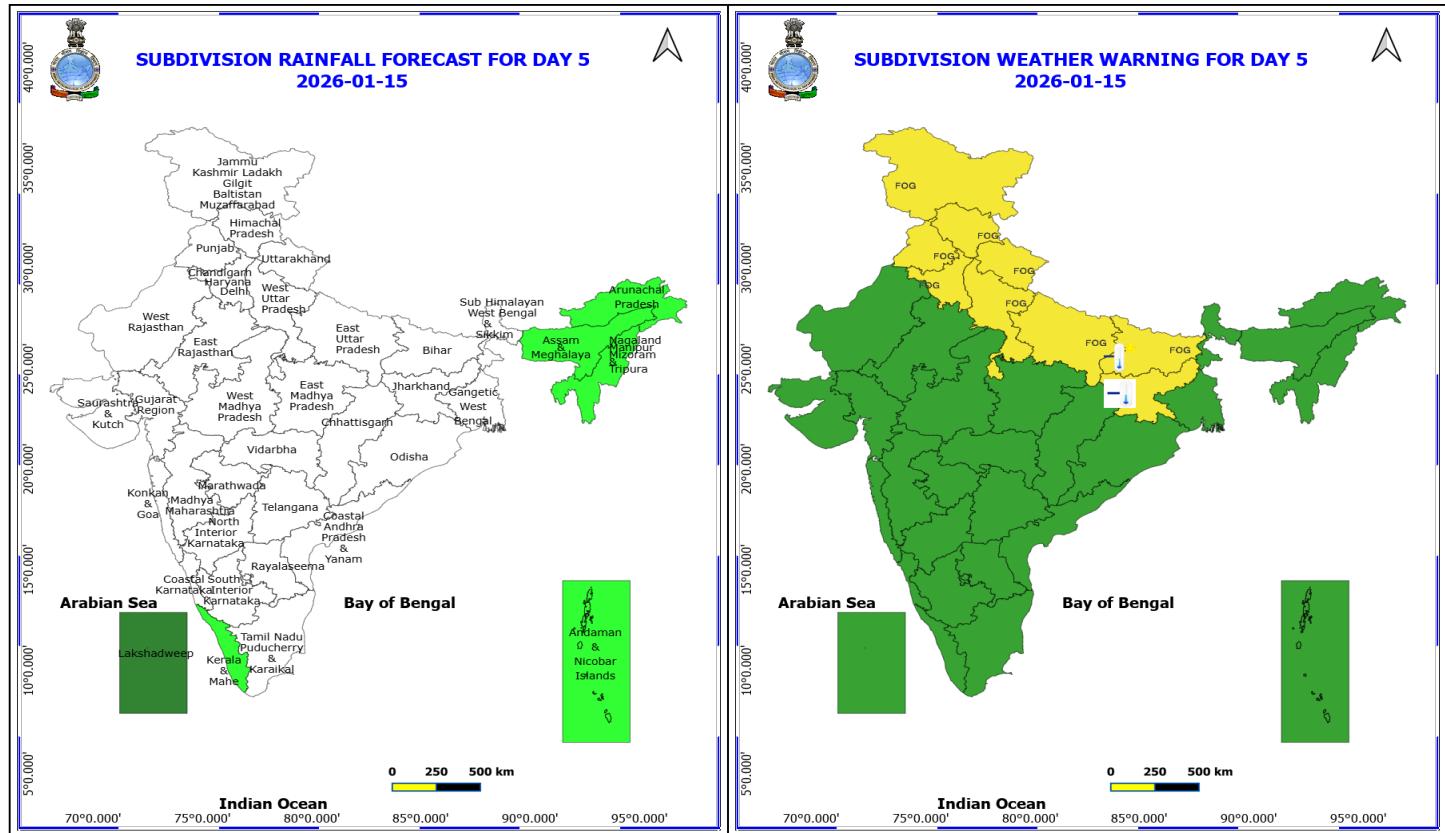
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#### 14 January (Day 4)

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

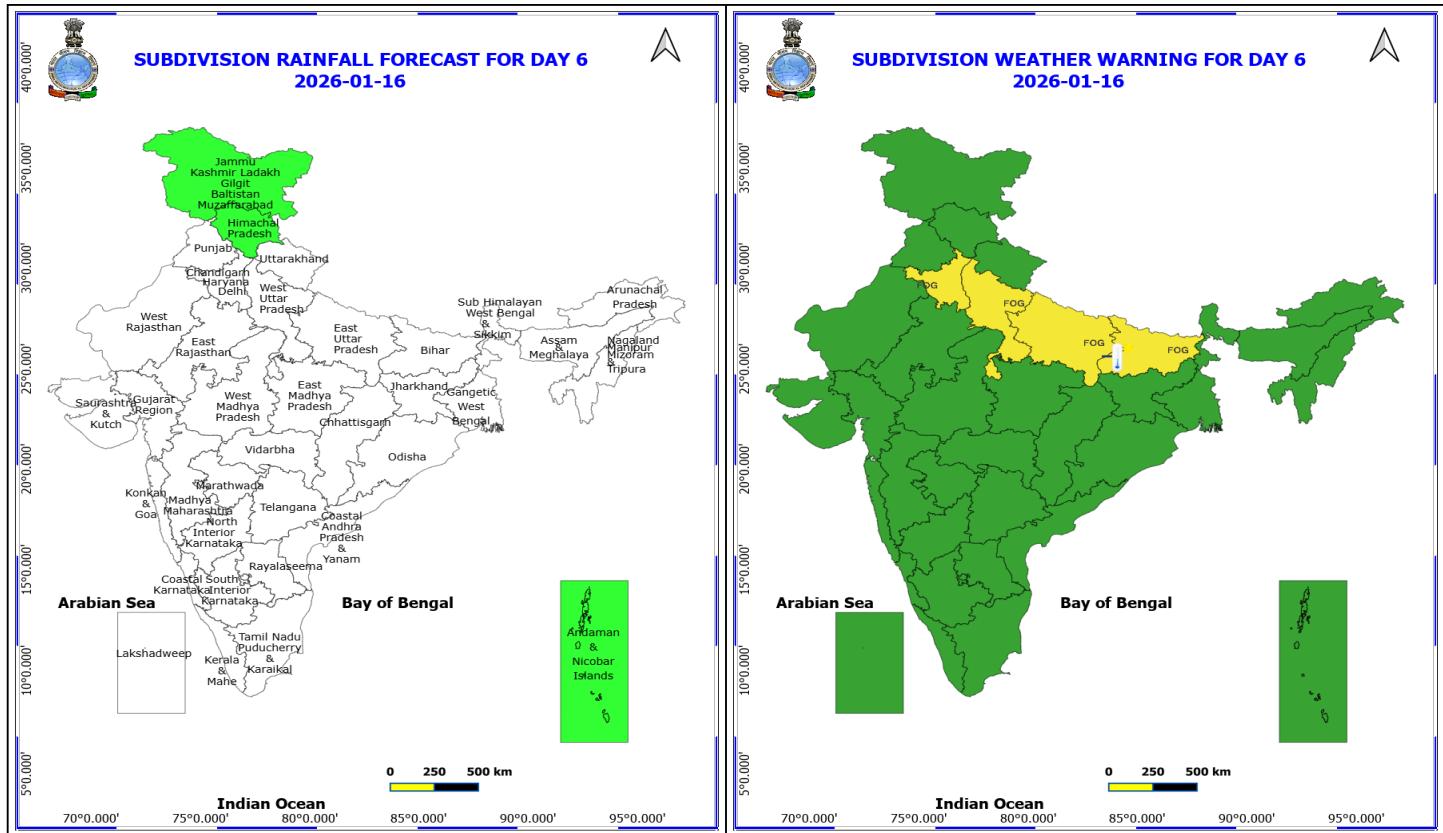
#### No Fishermen Warning



## 15 January (Day 5)

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

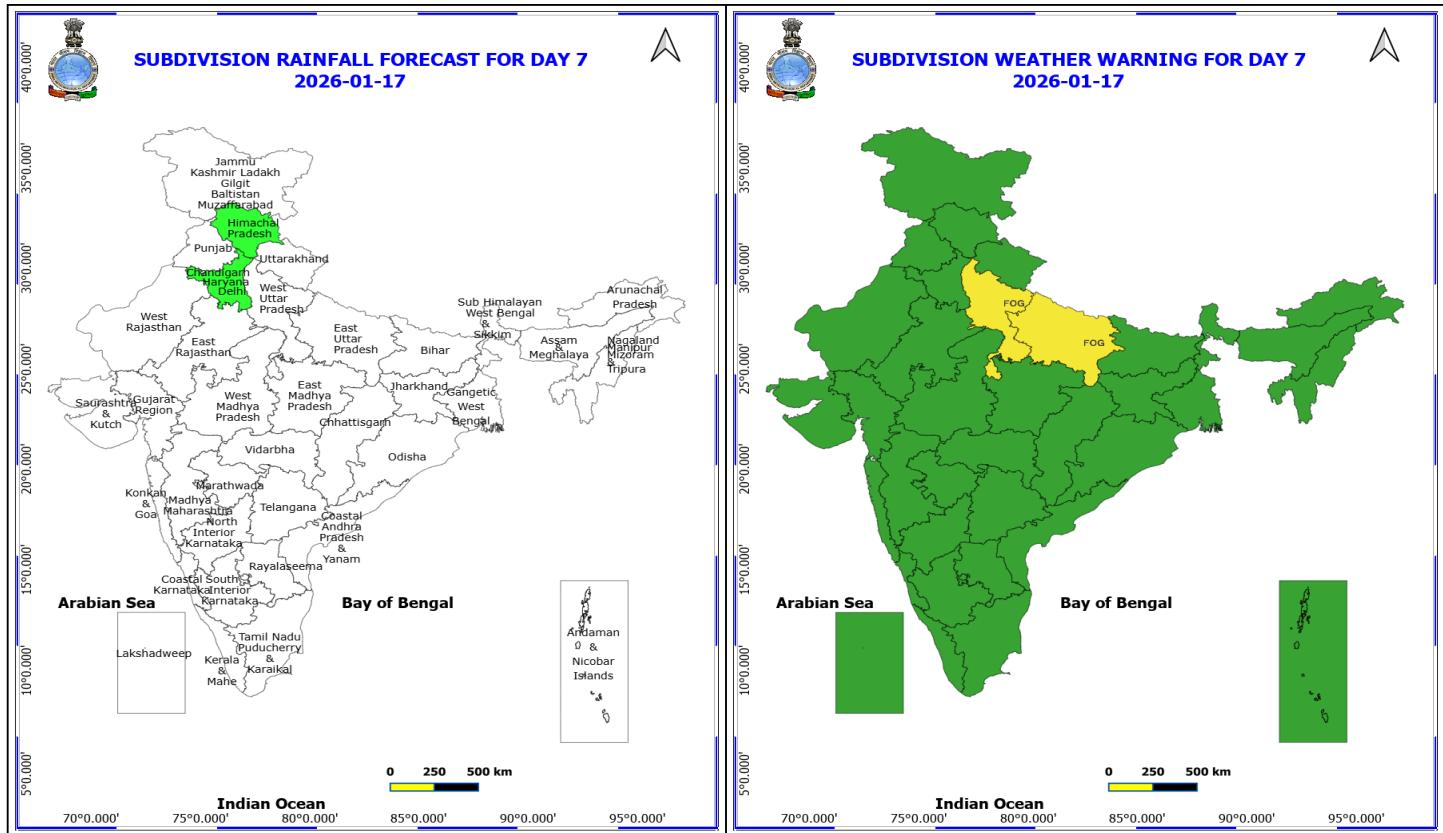
### No Fishermen Warning



## 16 January (Day 6)

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

**No Fishermen Warning**



### 17 January (Day 7)

❖ Dense Fog likely at isolated places over Uttar Pradesh.

No Fishermen Warning



## Table-1

### 7 Days Rainfall Forecast

S.No.	Subdivision	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
2	ARUNACHAL PRADESH		ISOL	DRY	DRY	ISOL	ISOL	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
4	N. M. M. & T.	DRY	DRY	DRY	DRY	ISOL	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	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						
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	DRY	ISOL	DRY	DRY	DRY	ISOL	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	ISOL	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY						
27	CHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH		ISOL	ISOL	DRY	DRY	DRY	DRY
29	TELANGANA	DRY						
30	RAYALASEEMA	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	SCT	SCT	ISOL	ISOL	DRY	DRY	DRY
32	COSTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA		ISOL	ISOL	DRY	DRY	DRY	DRY
35	KERALA	SCT	SCT	ISOL	ISOL	ISOL	DRY	DRY
36	LAKSHDWEEP	SCT	FWS	FWS	SCT	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 2026-01-11

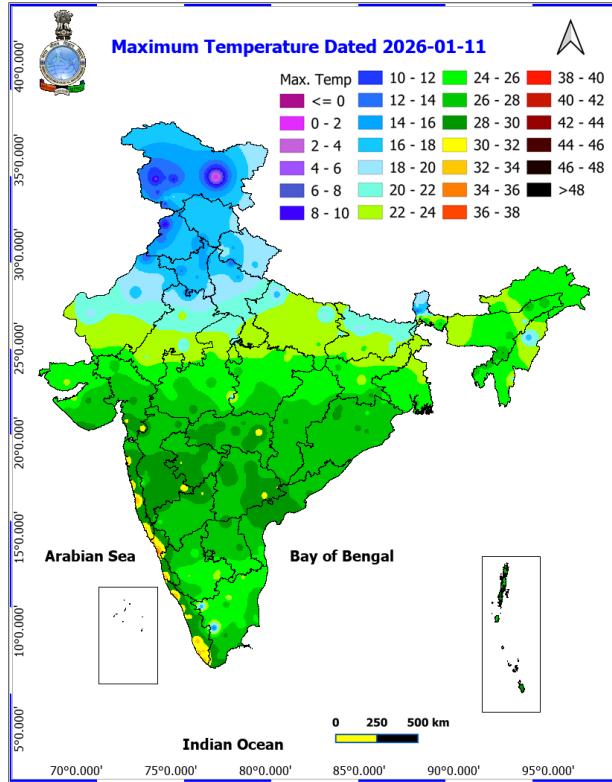


Fig. 2: Departure of Maximum Temp. Dated 2026-01-11

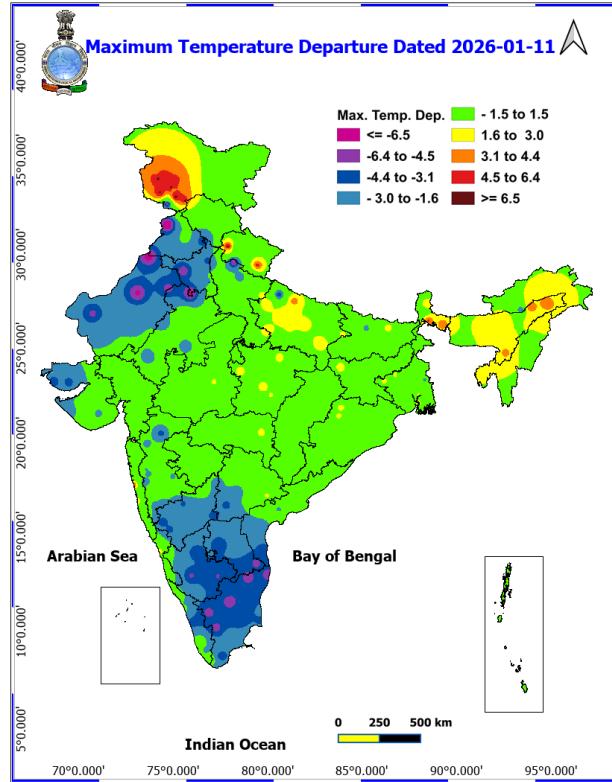


Fig. 3: Minimum Temperatures Dated 2026-01-11

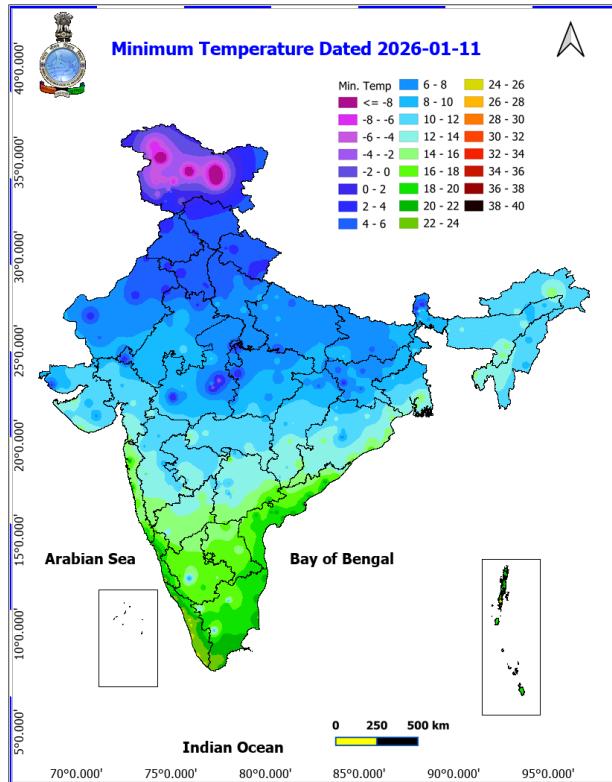
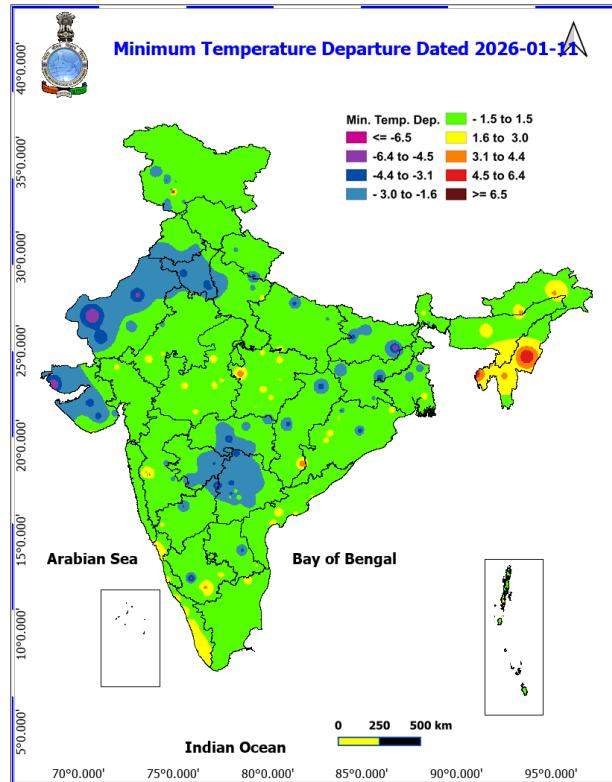


Fig. 4: Departure of Minimum Temp. Dated 2026-01-11

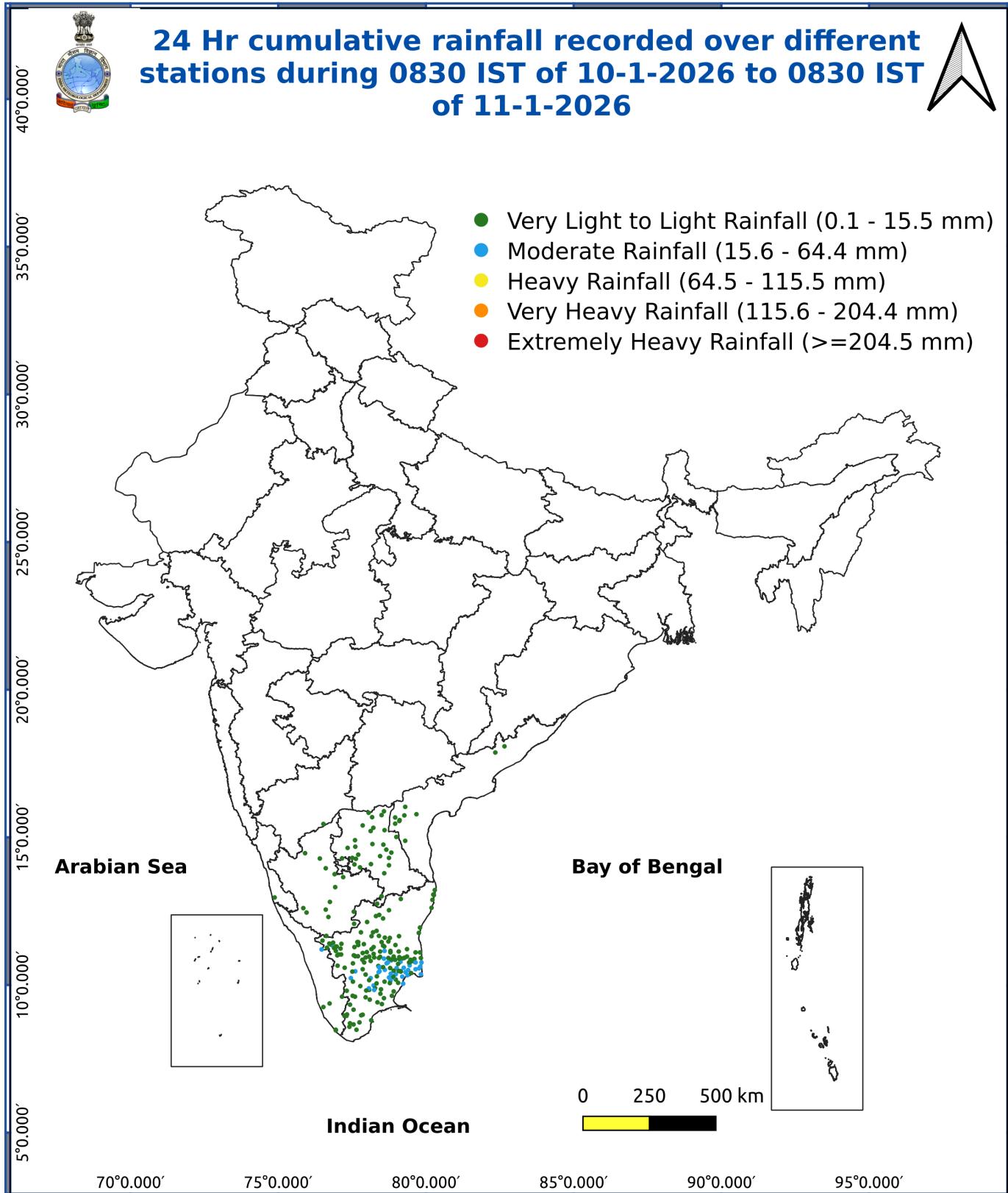


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## Impact and Actions

**Impact expected due to dense/very dense fog in the night/morning hours:** very likely to prevail in morning hours in isolated pockets over Uttar Pradesh till 13<sup>th</sup> and Bihar till 12<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 to Severe Cold wave** conditions very likely in many/some pockets of Rajasthan on 12<sup>th</sup> & 13<sup>th</sup>; Himachal Pradesh till 13<sup>th</sup>; Uttarakhand on 12<sup>th</sup>; Punjab, Haryana Chandigarh & Delhi on 12<sup>th</sup>; West Uttar Pradesh on 13<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.

### Action suggested:

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- 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:

**Impact expected due to Cold Day conditions:** likely to prevail in isolated parts over Rajasthan on 11<sup>th</sup>; Bihar during 11<sup>th</sup> -16<sup>th</sup> January.

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- 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 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.

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

- In **Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh, Rajasthan and Kachchh**, 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.

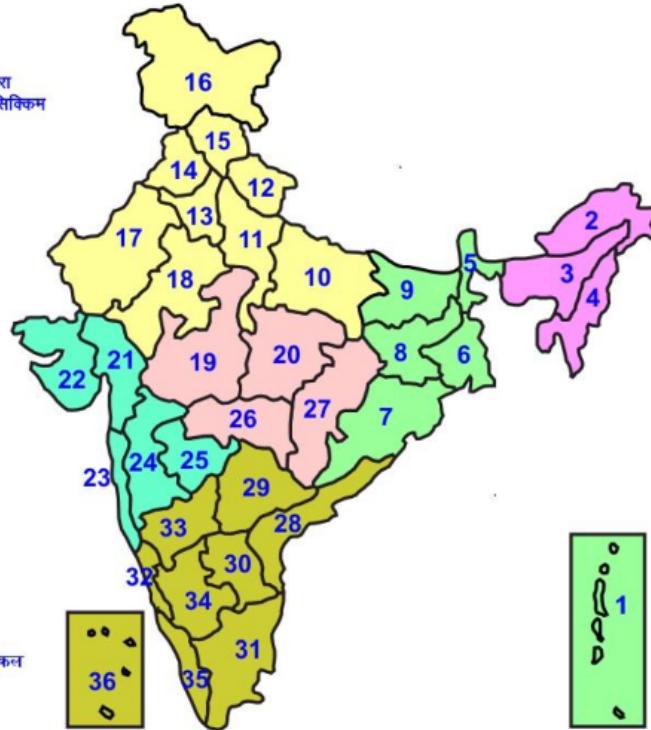
#### Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- 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

- अंडमान और निकोबार ह्वाई समुद्र
- अरुणाचल प्रदेश
- असम और मेघालय
- नागालैंड मणिपुर शीजोरग और त्रिपुरा
- उप हिमालय परिवेश बंगाल एवं सिक्किम
- परिवेश गंगाय बंगाल
- ओडिशा
- झारखण्ड
- बिहार
- पूर्णी उत्तर प्रदेश
- परिवेश उत्तर प्रदेश
- उत्तराखण्ड
- हरियाणा चंडिगढ़ एवं दिल्ली
- पंजाब
- हिमाचल प्रदेश
- जम्मू एवं कश्मीर एवं लद्दाख
- परिवेश राजस्थान
- पूर्णी राजस्थान
- परिवेश मध्य प्रदेश
- पूर्णी मध्य प्रदेश
- गुजरात बोत्र
- सोलान्द्र एवं कच्छ
- कोकण एवं गोवा
- मध्य महाराष्ट्र
- मध्याचाला
- विदर्भ
- छत्तीसगढ़
- वृद्धि आधि प्रदेश एवं बनग
- तेलंगाना
- रायलसीना
- तामिलनाडु, पुन्नेरी एवं कर्नाटक
- तांत्रिक कर्नाटक
- आंतरिक उत्तरी कर्नाटक
- आंतरिक दक्षिणी कर्नाटक
- केरल एवं माहे
- लखाड़ीप



- Andaman & Nicobar Islands
- Arunachal Pradesh
- Assam & Meghalaya
- Nagaland, Manipur, Mizoram & Tripura
- Sub-Himalayan West Bengal & Sikkim
- Gangetic West Bengal
- Orissa
- Jharkhand
- Bihar
- East Uttar Pradesh
- West Uttar Pradesh
- Uttarakhand
- Haryana, Chh & Delhi
- Punjab
- Himachal Pradesh
- Jammu & Kashmir and Ladakh
- West Rajasthan
- East Rajasthan
- West Madhya Pradesh
- East Madhya Pradesh
- Gujarat
- Saurashtra
- Konkan & Goa
- Madhya Maharashtra
- Marathwada
- Vidarbha
- Chhattisgarh
- Coastal Andhra Pradesh & Yanam
- Telangana
- Rayalseema
- Tamilnadu, Puducherry & Karaikal
- Coastal Karnataka
- North Interior Karnataka
- South Interior Karnataka
- Kerala & Mahe
- Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

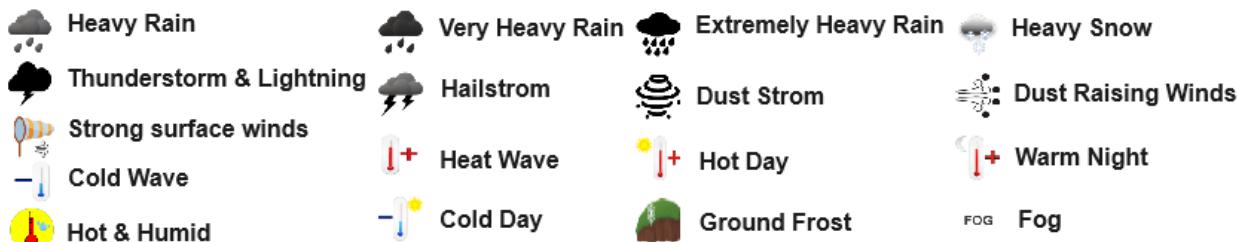
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

### 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





### 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 \*

#### 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)

#### 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 Strom: Wind speed  $>220$  kmph ( $>119$  knots)

\*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)