

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 11th-12th 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 13th 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 parts over Bihar till 12th January and Dense fog in isolated pockets till 17th January 2026.
- **Dense fog** conditions also likely during morning hours in isolated/some pockets over Jammu division, Himachal Pradesh, Uttarakhand, Punjab till 16th, Haryana Chandigarh & Delhi till 17th; West Rajasthan till 13th; East Rajasthan and Sub-Himalayan West Bengal & Sikkim till 14th; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 14th January.
- **Cold day conditions** likely to prevail in isolated parts over Rajasthan on 11th; Bihar during 11th -16th January.
- **Cold wave to Severe Cold wave** conditions very likely in many/some pockets of Rajasthan on 12th & 13th and cold wave conditions on 14th January.
- **Cold wave to Severe Cold wave** conditions very likely in isolated pockets of Himachal Pradesh till 13th and cold wave conditions on 14th January.
- **Cold wave to Severe Cold wave** conditions very likely in isolated pockets of Uttarakhand on 12th and cold wave conditions on 13th & 14th January.
- **Cold wave to Severe Cold wave** conditions very likely in isolated pockets of Punjab, Haryana Chandigarh & Delhi on 12th and cold wave conditions on 13th January.
- **Cold wave to Severe Cold wave** conditions very likely in isolated pockets of West Uttar Pradesh on 13th and cold wave conditions on till 14th January.
- **Cold wave conditions** very likely in isolated pockets over Jharkhand during 14th – 16th; Kutch on 12th & 13th January.

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Main Weather Observations:

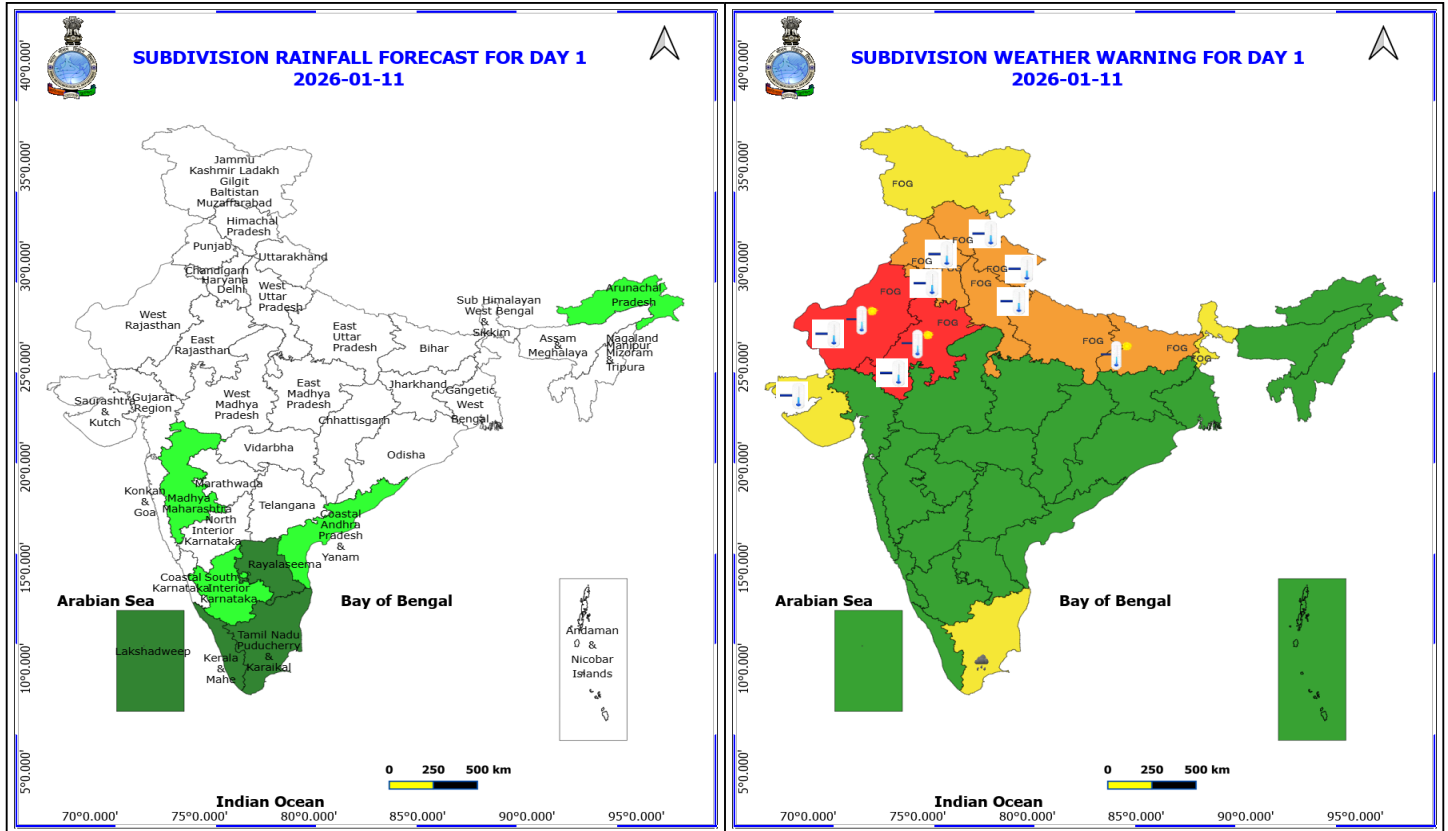
- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): **at many places** over Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST to 1730 hours 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 15th 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)

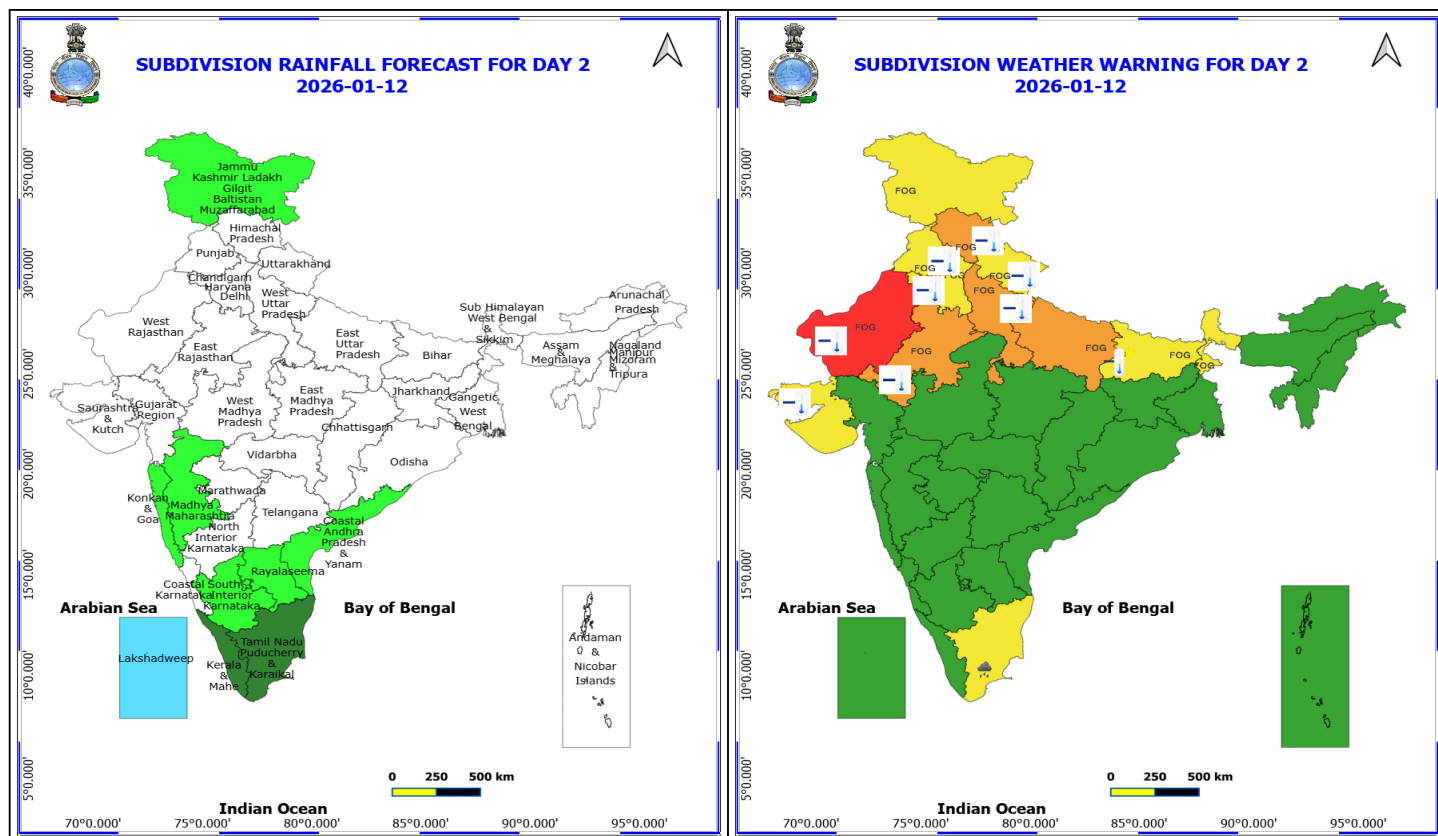
- ❖ **Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Saurashtra & Kutch and West Uttar Pradesh.
- ❖ **Cold wave to Severe Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & 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.

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12 January (Day 2)

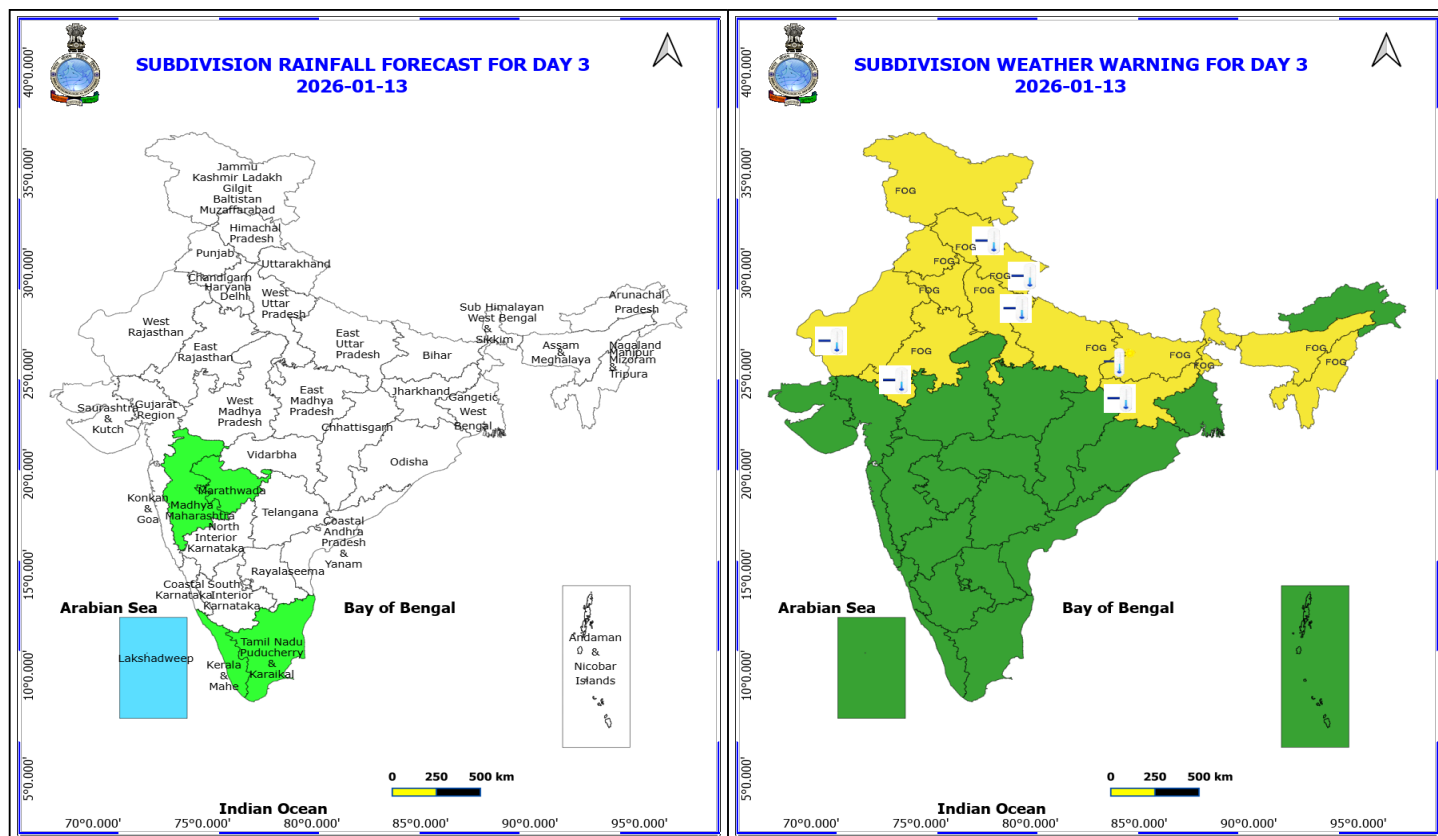
- ❖ **Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, Saurashtra & Kutch and Uttarakhand.
- ❖ **Cold wave to Severe Cold wave conditions** very likely at isolated 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.

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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.

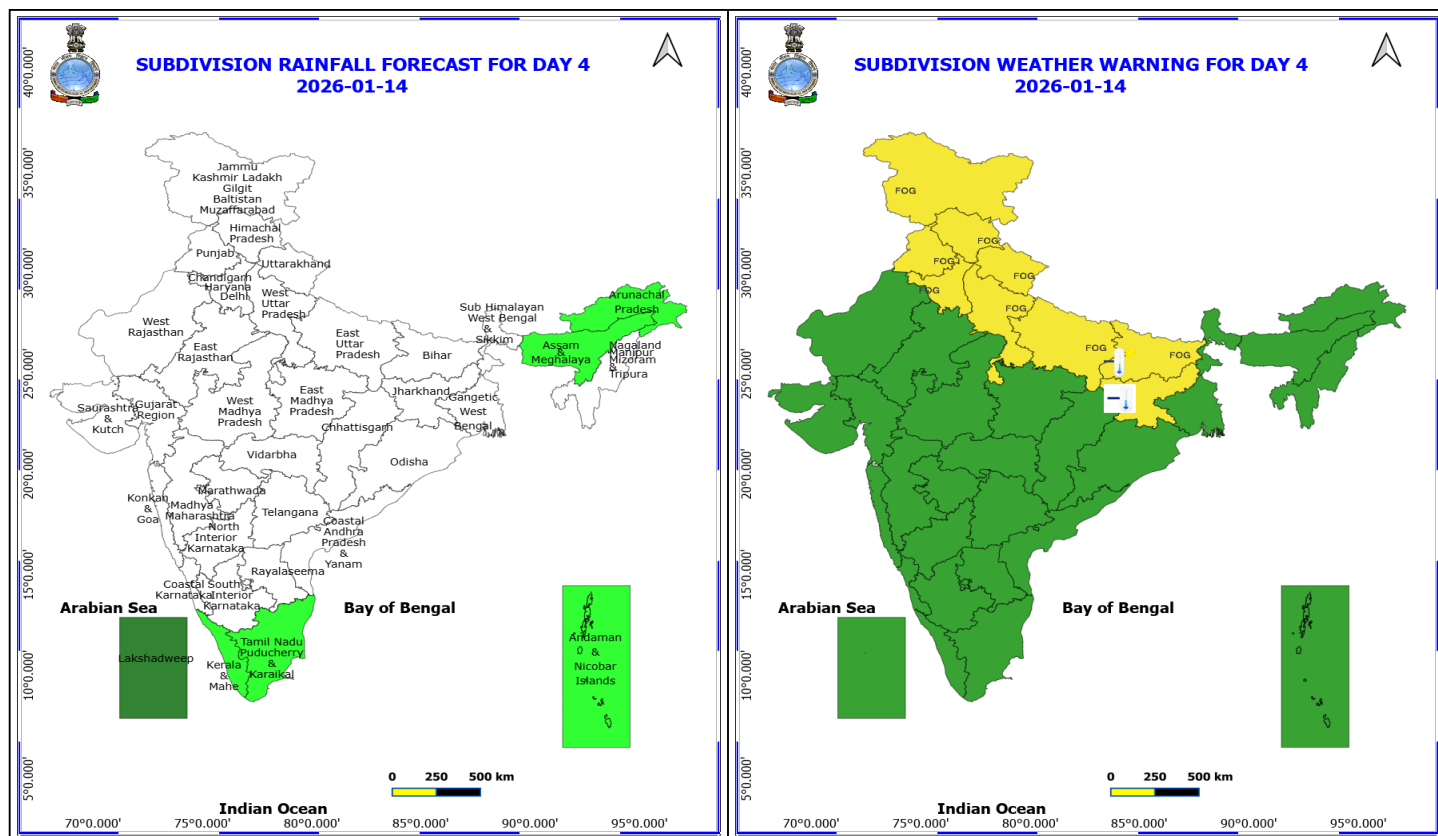
No Fishermen Warning

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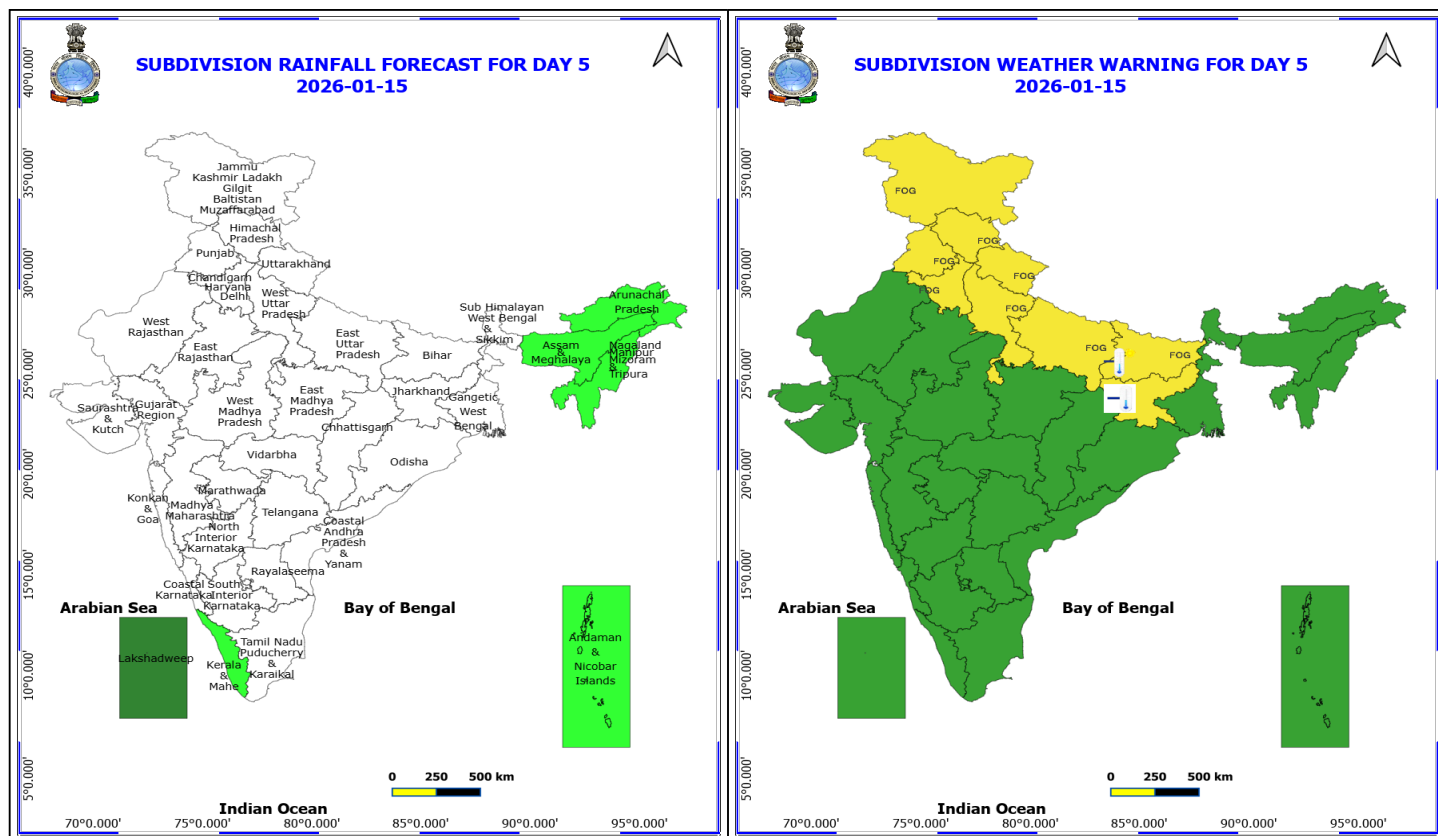
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14 January (Day 4)

- ❖ **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.

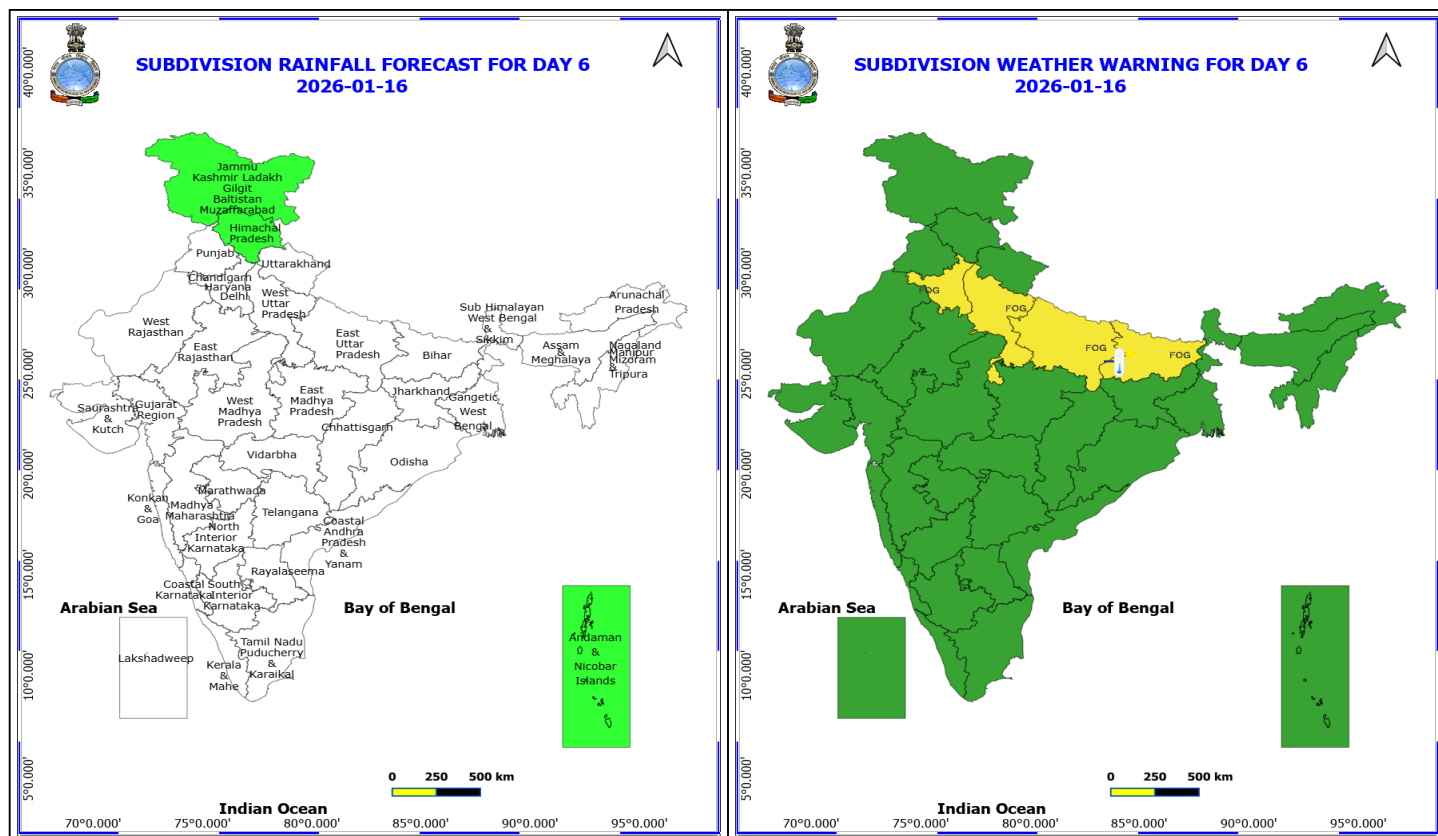
No Fishermen Warning

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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.

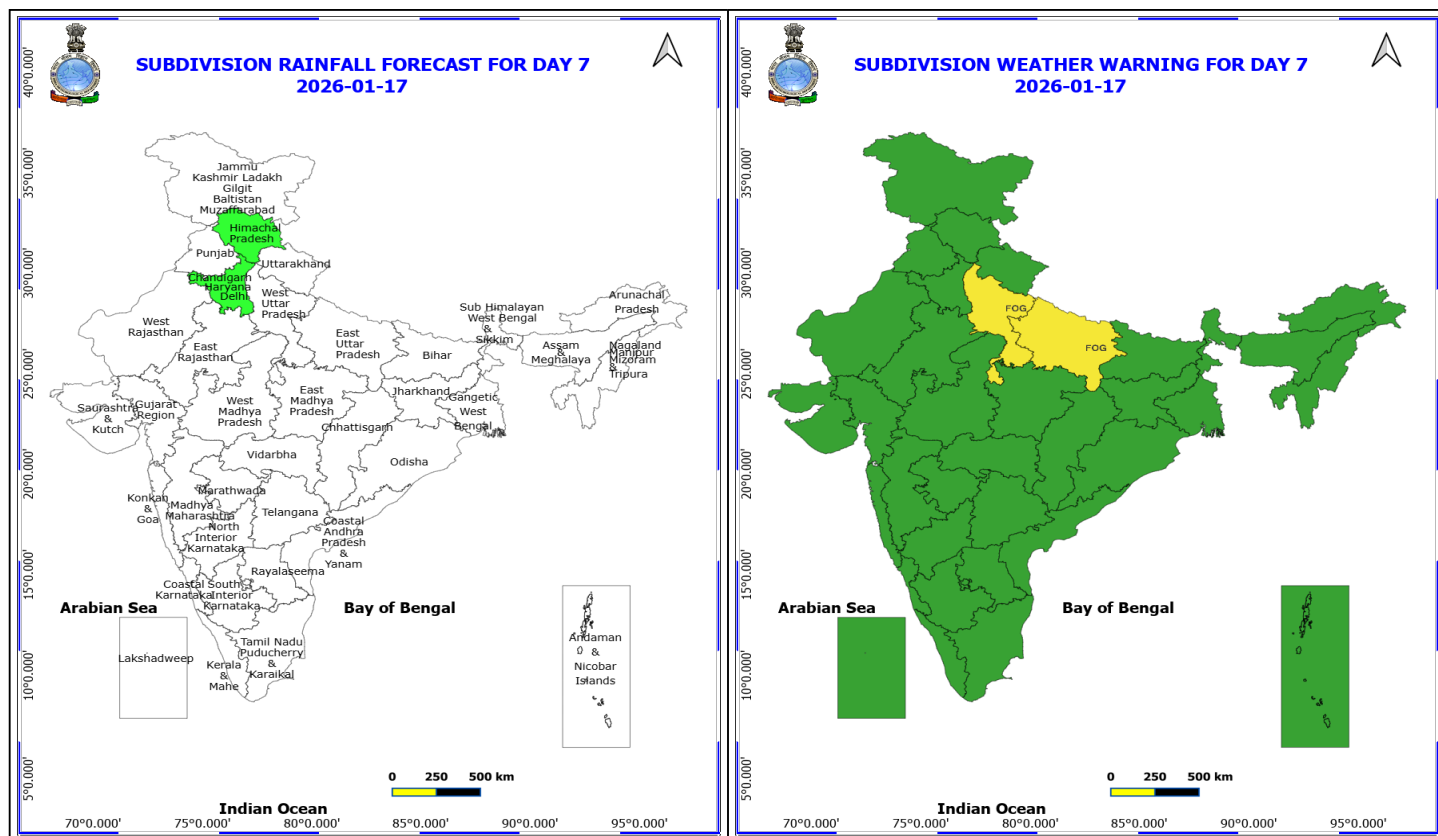
No Fishermen Warning

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17 January (Day 7)

❖ Dense Fog likely at isolated places over Uttar Pradesh.

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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	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	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	DRY	DRY
12	UTTARAKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	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	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	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	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
30	RAYALASEEMA	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	SCT	SCT	ISOL	ISOL	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	ISOL	DRY	DRY	DRY	DRY	DRY
35	KERALA	SCT	SCT	ISOL	ISOL	ISOL	DRY	DRY
36	LAKSHDWEAP	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

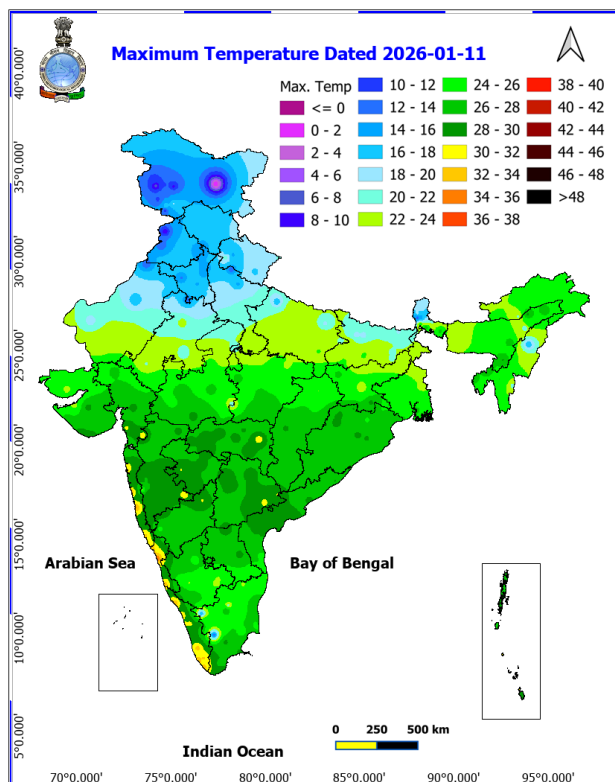


Fig. 2: Departure of Maximum Temp. Dated 2026-01-11

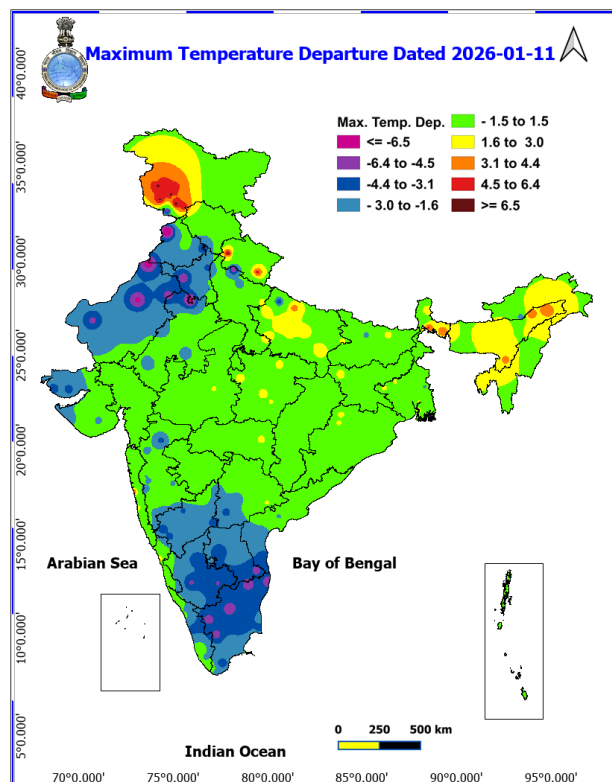


Fig. 3: Minimum Temperatures Dated 2026-01-11

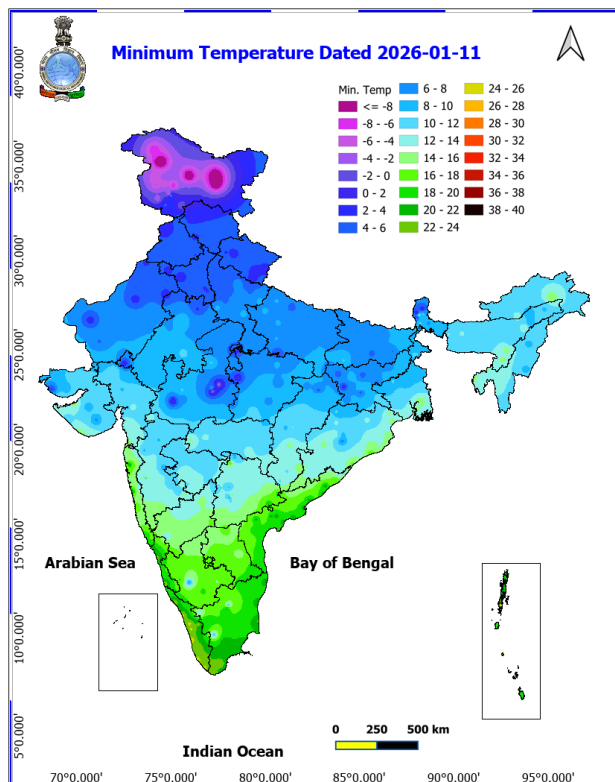
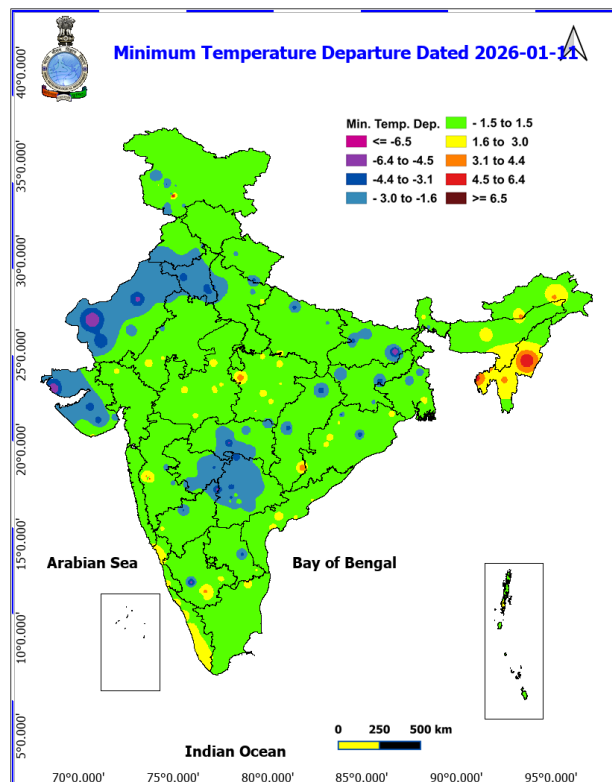
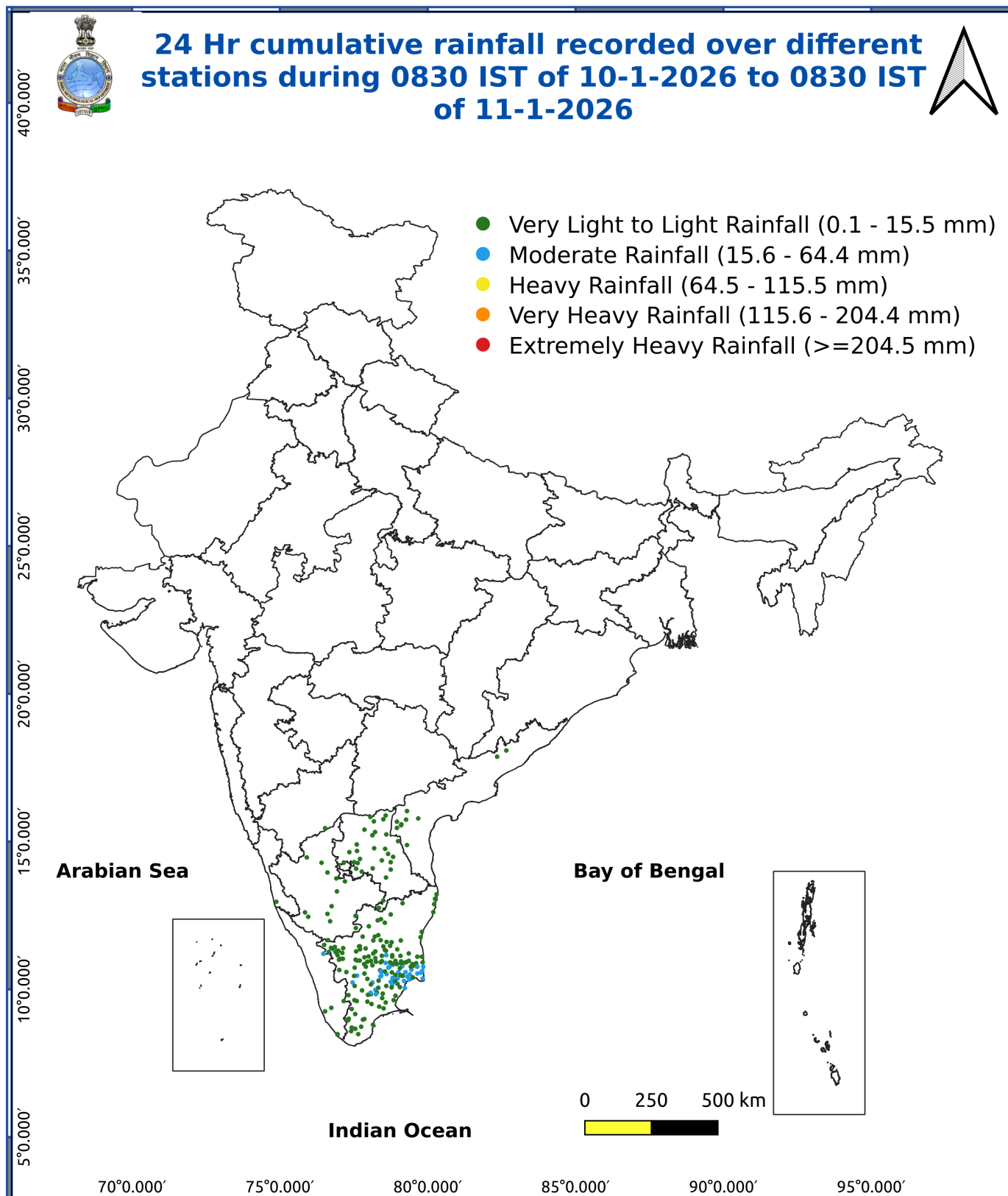


Fig. 4: Departure of Minimum Temp. Dated 2026-01-11





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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 13th and Bihar till 12th 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 12th & 13th; Himachal Pradesh till 13th; Uttarakhand on 12th; Punjab, Haryana Chandigarh & Delhi on 12th; West Uttar Pradesh 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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- 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 11th; Bihar during 11th -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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- Impact on agriculture, crop, livestock, water supply, transport and power sector at some places.

Action suggested:

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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

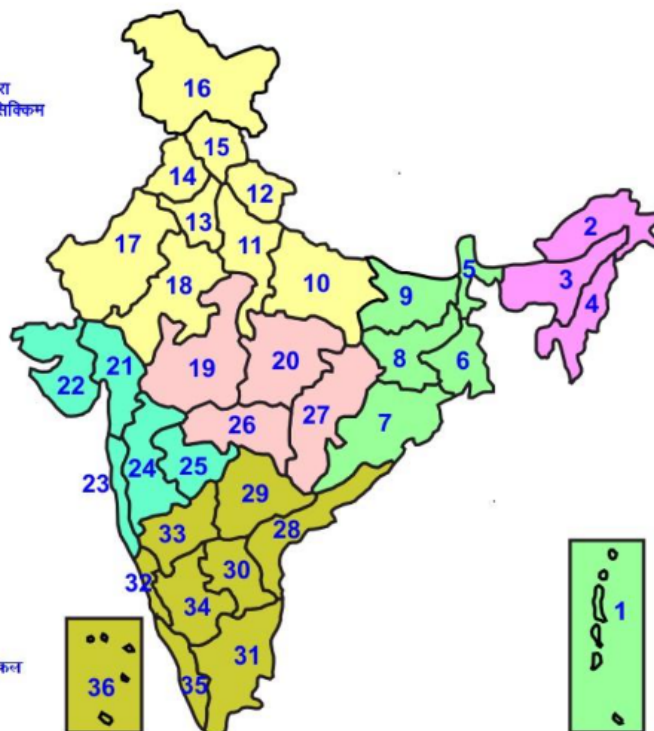
- Keep the cattle in the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

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

- 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

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LEGENDS

WARNING

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

Probabilistic Forecast

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



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



When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.
Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .
Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$.



When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave: When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$



Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres
Dense Fog: when the visibility between 50-200 metres
Very Dense Fog: when the visibility < 50 metres



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



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



Ice deposits on ground

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



A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph
Severe: Wind speed 62-87 kmph
Very Severe: Wind speed > 87 kmph



Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64-89 knots)
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90-119 knots)
Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

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

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