2026-01-28
Time of Issue: 13:15:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings

- Isolated rainfall/snowfall with **thunderstorm, lightning** over Uttarakhand on 28th January**.** Isolatedlight rainfall over Punjab, Haryana, Chandigarh, Uttar Pradesh on 28th; **Isolated** light rainfall with **thunderstorm, lightning** over East Uttar Pradesh on 28th January.
- **Isolated** light/moderate rainfall accompanied with thunderstorm, lightning very likely over Bihar, Chhattisgarh on 28th and **isolated Hailstorm activity also likely over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim on 28th January.**
- A fresh **western disturbance** is likely to affect northwest India from the night of 30th January 2026. Under its influence, scattered to fairly widespread rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** likely over Western Himalayan region and adjoining plains of Northwest India on 01st February.**Isolated** light rainfall with **thunderstorm, lightning** over Rajasthan on 31st January & 01st February.
- **Isolated heavy rainfall/snowfall over** Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 01st February.

Forecast of minimum temperatures:

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

Dense Fog, Cold wave Warnings:

- **Dense fog** conditions likely during night/night hours in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha till 30th, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh till 31st; Sub-Himalayan West Bengal & Sikkim, Bihar during 30th-31st January.
- **Cold wave** conditions likely in isolated pockets over Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi during 28th-31st January.

Main weather observations:

- **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, and Jammu-Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad; **at many places over** West Madhya Pradesh; **at a few places** over East Uttar Pradesh, East Rajasthan and Lakshadweep; **at isolated places** over Andaman & Nicobar Islands, Arunachal Pradesh, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **Dry** over rest of the country.

- **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Himachal Pradesh:** Kothi (dist Kullu) 7; **West Madhya Pradesh**: Gwalior (dist Gwalior) & Begamganj (dist Raisen) 7 each.

- **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy rain** at isolated places over Himachal Pradesh and West Madhya Pradesh.

- **Fog Condition Observed (at 0830 hours of today): Dense to very Dense fog (visibility <50 m) conditions** prevailed in isolated pockets of Punjab, West Uttar Pradesh, Haryana and **dense fog (visibility 50-199 m)conditions** in isolated pockets over East Rajasthan, West Madhya Pradesh, Odisha, Bihar.

- **Visibility reported (at 0830 hours of today): West Uttar Pradesh:** Agra Iaf-0; **Punjab:** Bathinda (<50m), Faridkot-150, Ludhiana-190; **Haryana, Chandigarh**: Chandigarh-40, Narnaul-50, **East Rajasthan:** Ganganagar-90m; **West Madhya Pradesh:** Gwalior**; Odisha**: Khurdha (100m); **Bihar**: Gaya (100m).

- **Cold day to Severe Cold day conditions** prevailed in few pockets of Himachal Pradesh.

- Isolated **hailstorm** activity has been recorded over Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh, East Madhya Pradesh, Madhya Maharashtra, Delhi.

- **Minimum Temperature Departures (as on 28-01-2026):** below normal (-1.6°C to -3.0°C) at isolated places over Rajasthan, Saurashtra & Kutch, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Odisha, South Interior Karnataka. appreciably below normal (-5.0°C to -3.1°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit- Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand. The lowest minimum temperature of **3.7°C** was reported at **Amritsar (Punjab)** over the Plains of India.

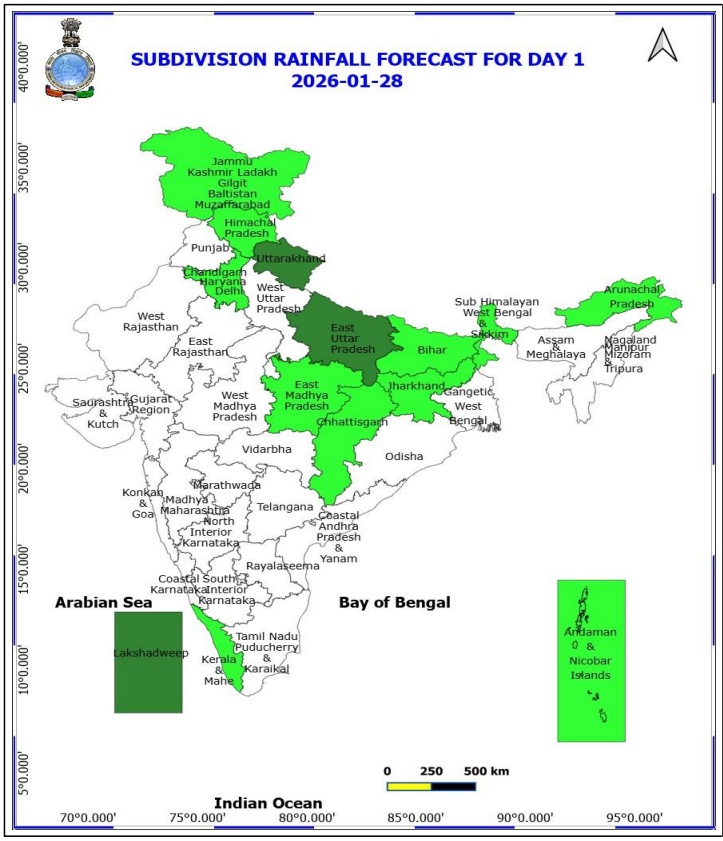
- **Maximum Temperature Departures (as on 27-01-2026): below normal(-1.6°C to -3.0°C)** at isolated places over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad. **appreciably below normal(-5.0°C to -3.1°C)** at many places over Punjab. **The highest maximum temperature** of 36.0°C is reported at KOTTAYAM (KERALA).

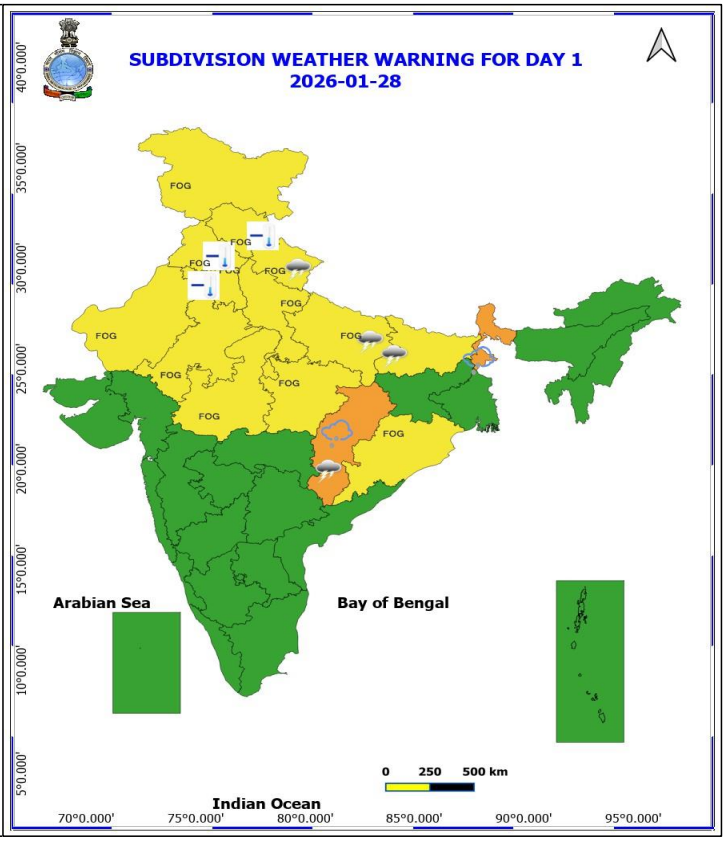
Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance** as a **cyclonic circulation** over Jammu & neighbourhood between 3.1 & 4.5 km above mean sea level with the trough aloft in middle & upper troposphere westerlies with its axis at 5.8 km above mean sea level roughly along Long. 76°E to the north of Lat. 25°N.
- A **trough** runs from Southeast Uttar Pradesh to North Interior Karnataka at 1.5 km above mean sea level.
- A **cyclonic circulation** lies over Northeast Bihar & neighbourhood and extends upto 1.5 km above mean sea level.
- **Subtropical westerly Jet Stream** with core winds of the order of 130 knots at 12.6 km above mean sea level prevails over North India.
- A fresh **western disturbance** is likely to affect northwest India from the night of 30th January 2026.
- The **trough from** Vidarbha to Northeast Uttar Pradesh across East Madhya Pradesh at 0.9 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

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





28 January (Day 1)

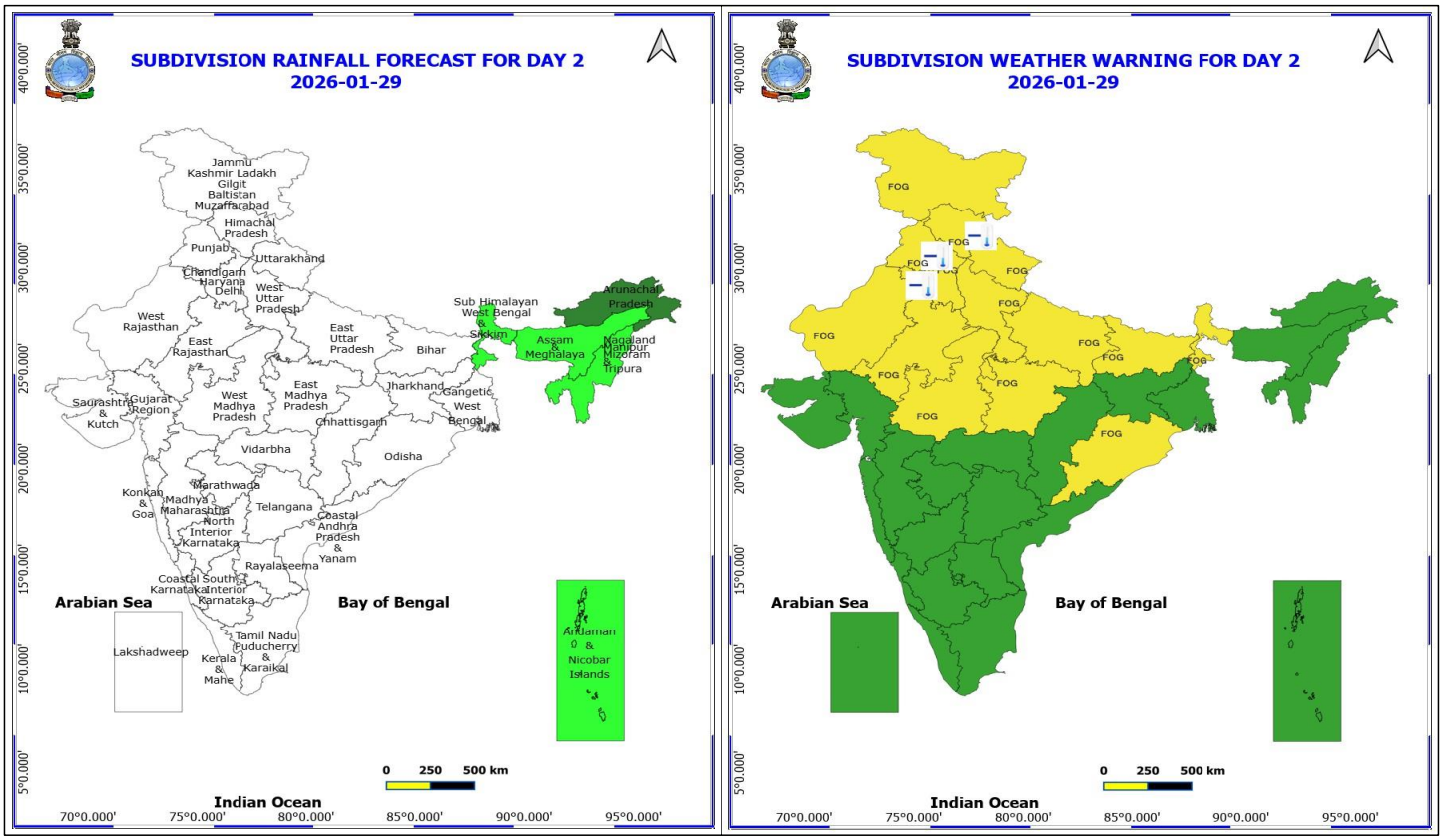
❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Chhattisgarh and Sub Himalayan West Bengal & Sikkim.

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Bihar, Chhattisgarh, East Uttar Pradesh and Uttarakhand.

❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh and Punjab.

❖ **Dense Fog** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Pradesh, Odisha, Punjab, Rajasthan, Uttar Pradesh and Uttarakhand.

❖ **Squally weather with speed reaching 40 to 50 kmph gusting up to 60 kmph** is likely to prevail over Gulf of Mannar, Comorin area, along & off south Tamil Nadu & West Sri Lanka coasts, over few parts of southwest Arabian Sea.

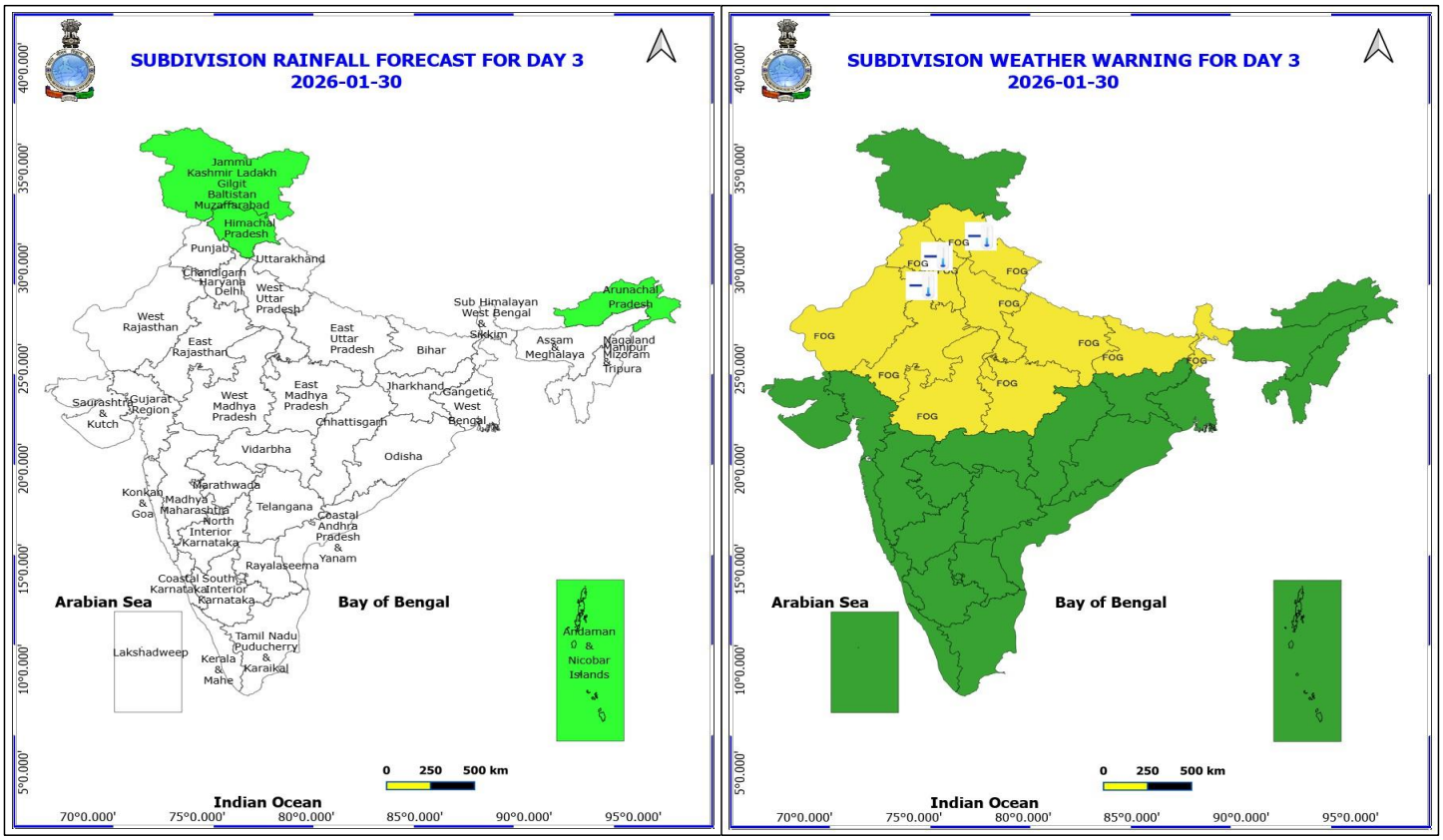


29 January (Day 2)

❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh and Punjab.

❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Pradesh, Odisha, Punjab, Rajasthan, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.

❖ **Squally weather with speed reaching 40 to 50 kmph gusting up to 60 kmph** is likely to prevail over Gulf of Mannar, adjoining Comorin area along & off south Tamil Nadu & West Sri Lanka coasts.

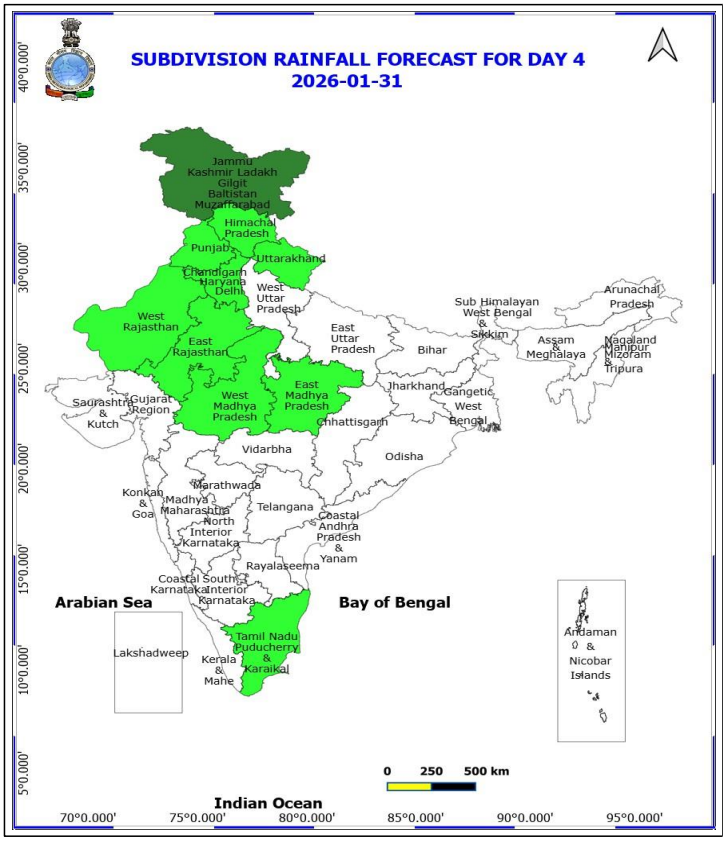


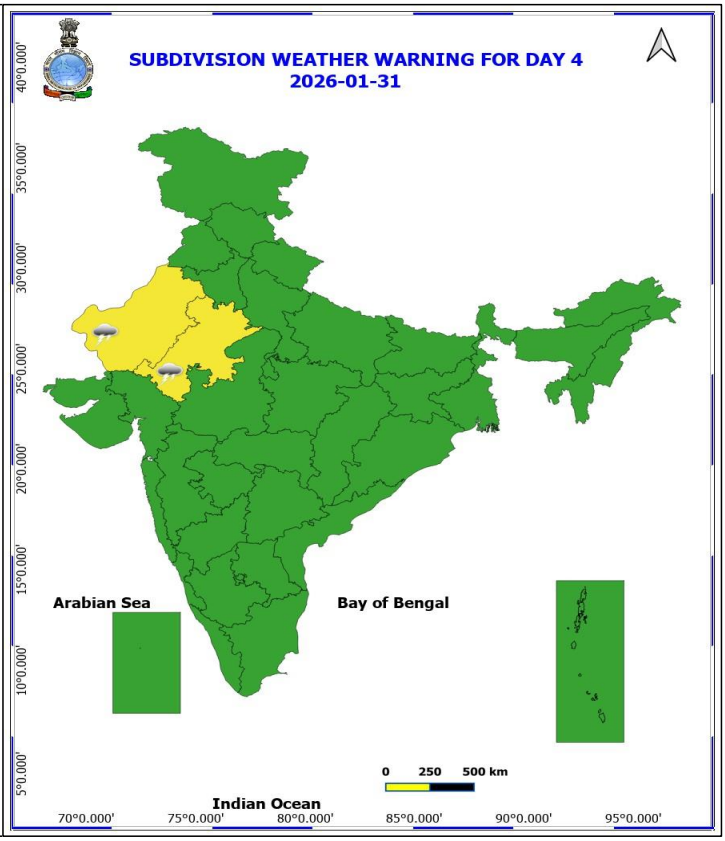
30 January (Day 3)

❖ **Cold wave conditions** very likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh and Punjab.

❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Madhya Pradesh, Punjab, Rajasthan, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.

❖ **Squally weather with speed reaching 40 to 50 kmph gusting up to 60 kmph** is likely to prevail over some parts of Comorin area.

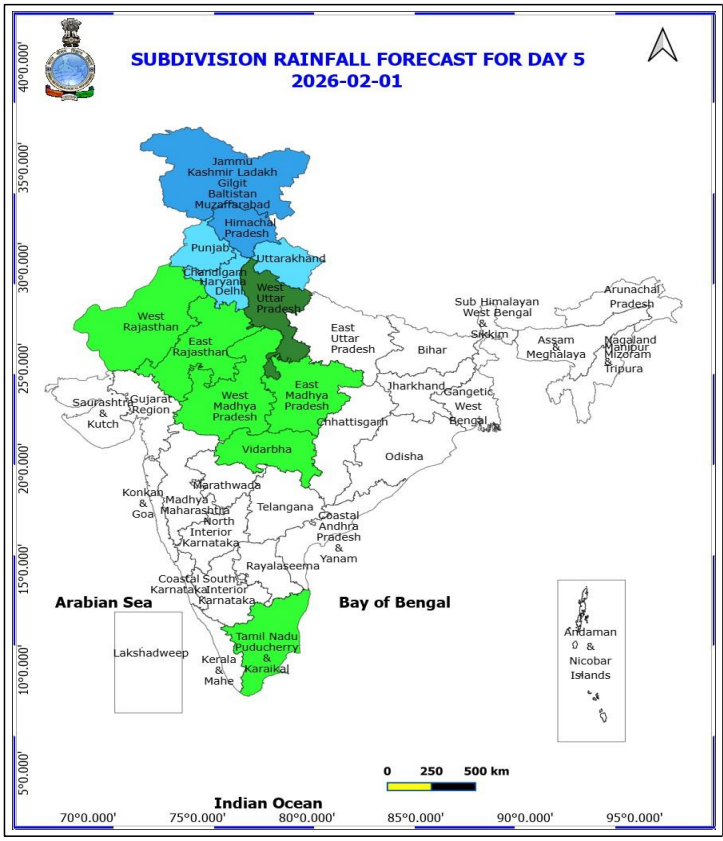


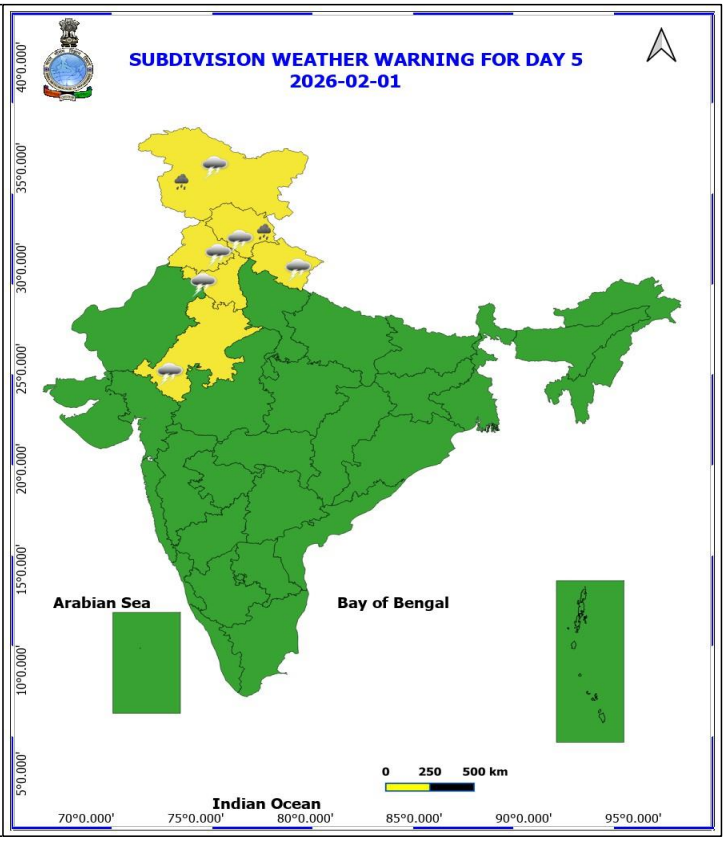


31 January (Day 4)

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

No Fishermen Warning





1 February (Day 5)

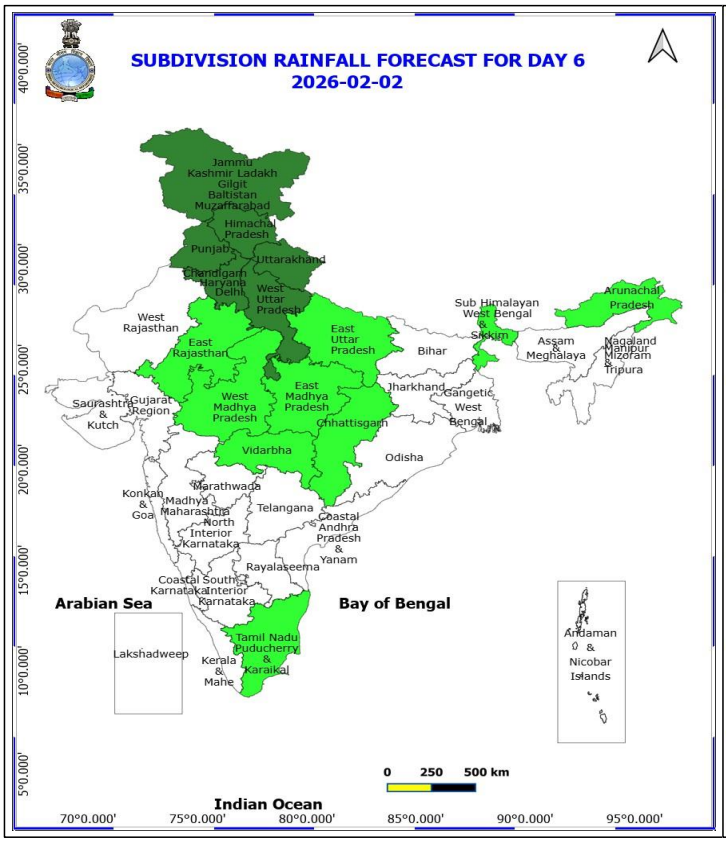
❖ **Heavy Rainfall** likely at isolated places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

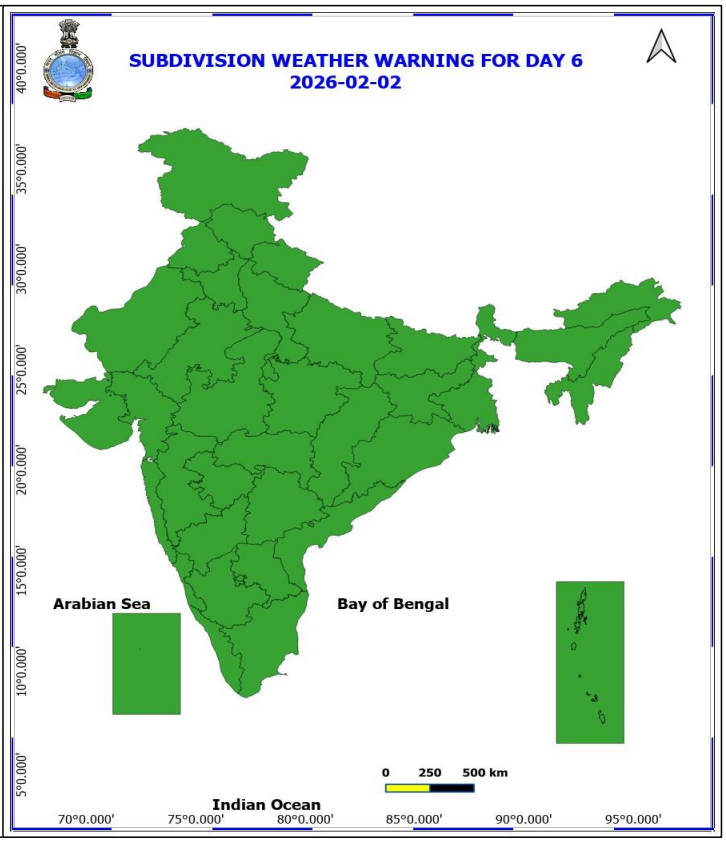
❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Himachal Pradesh and Uttarakhand.

❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.

❖ **Thunderstorm accompanied with Lightning** likely at isolated places over East Rajasthan and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

No Fishermen Warning

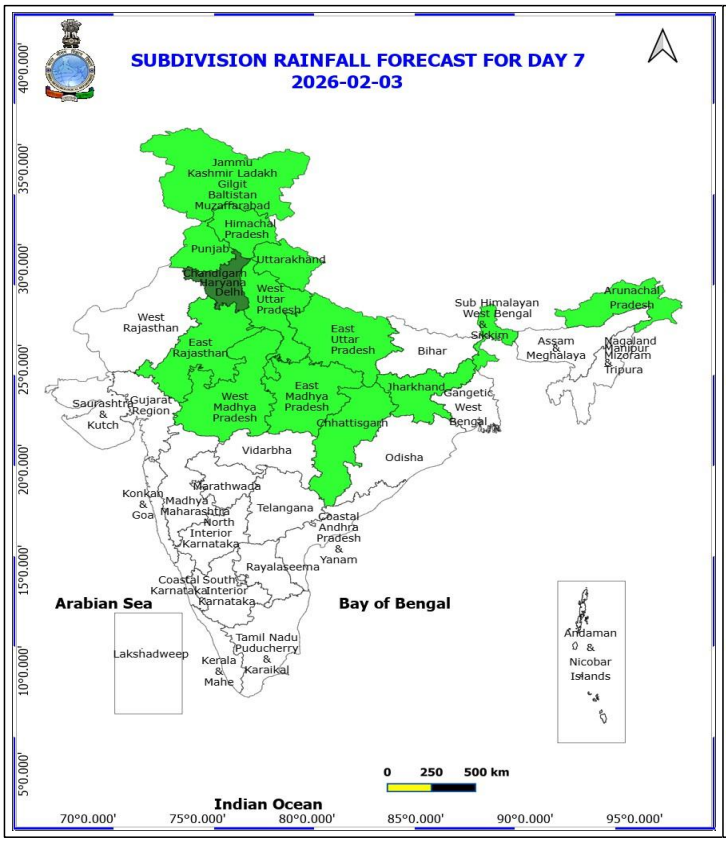


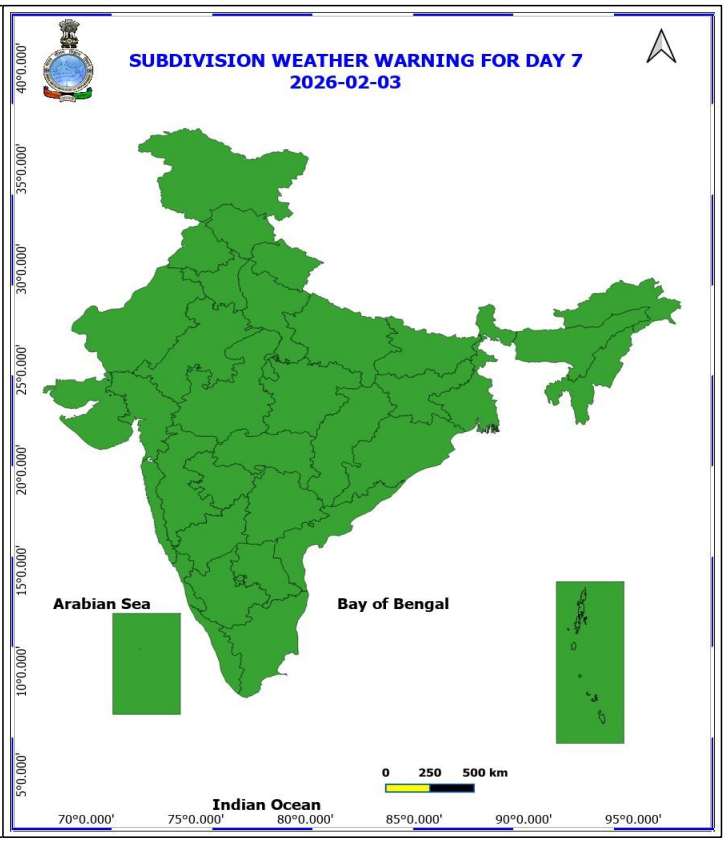


2 February (Day 6)

No Warning

No Fishermen Warning





3 February (Day 7)

No Warning

No Fishermen Warning

Table-1

7 Days Rainfall Forecast

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

*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)

Fig. 1: Maximum Temperatures Dated 2026-01-27

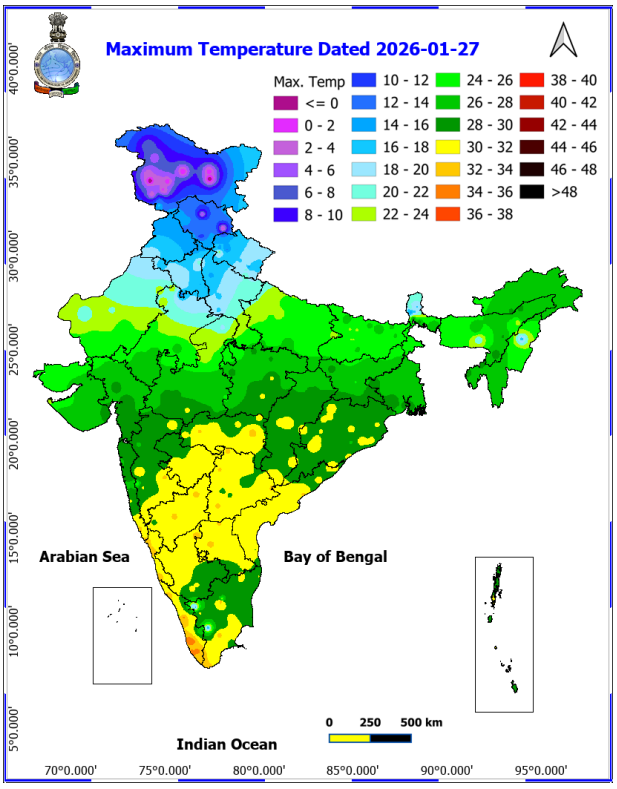


Fig. 2: Departure of Maximum Temp. Dated 2026-01-27

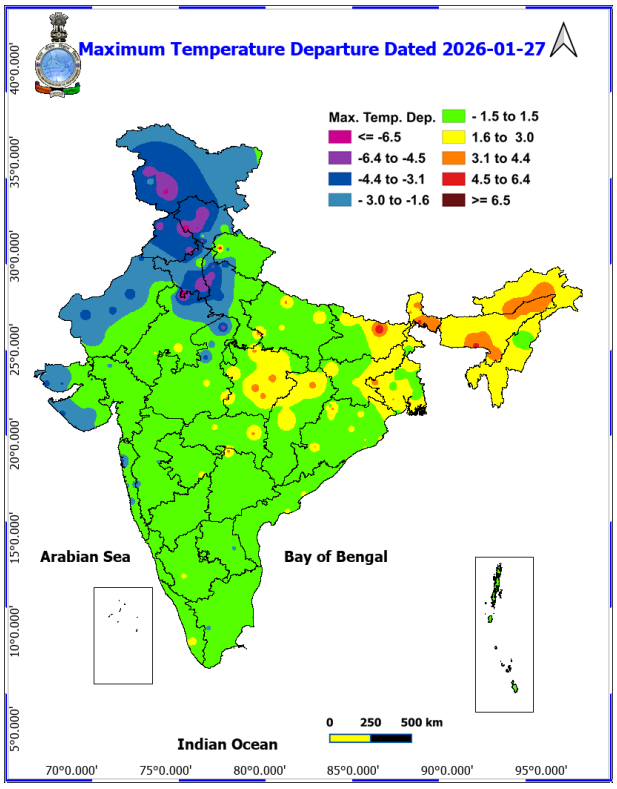


Fig. 3: Minimum Temperatures Dated 2026-01-28

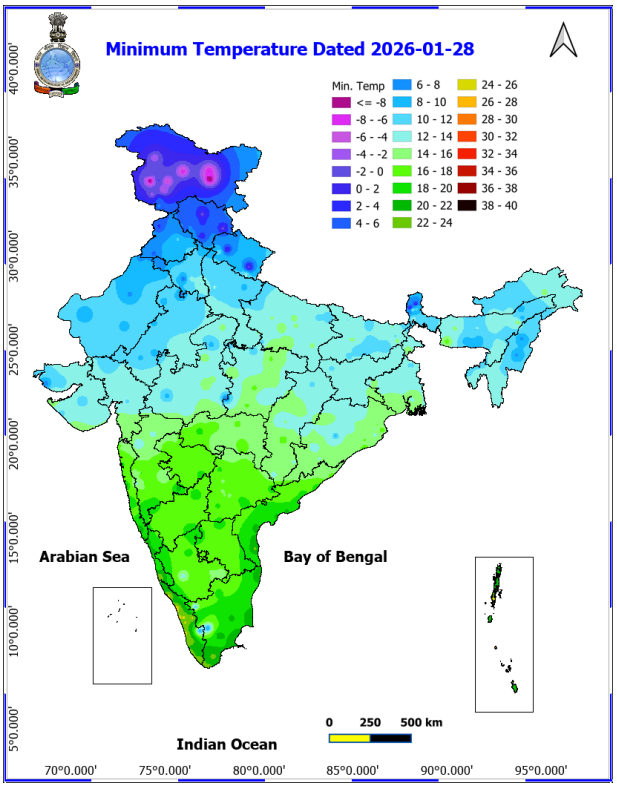
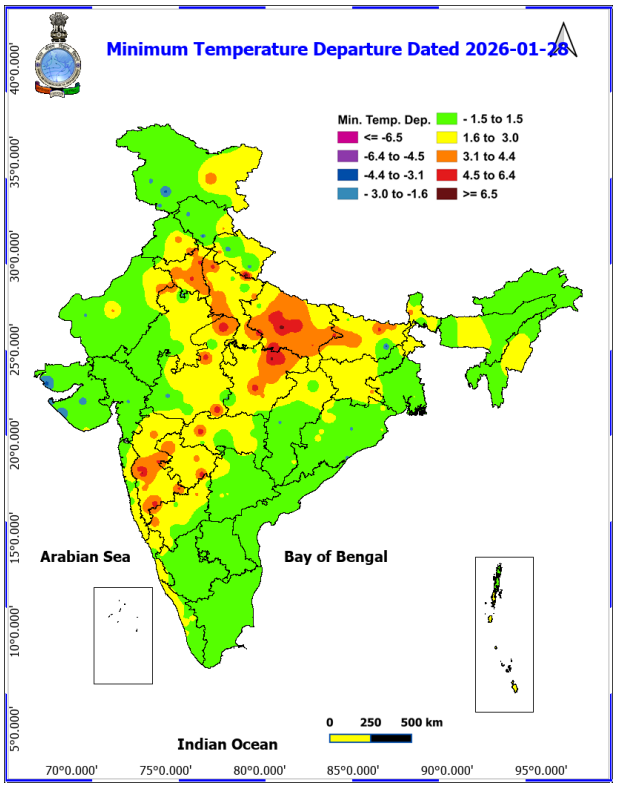
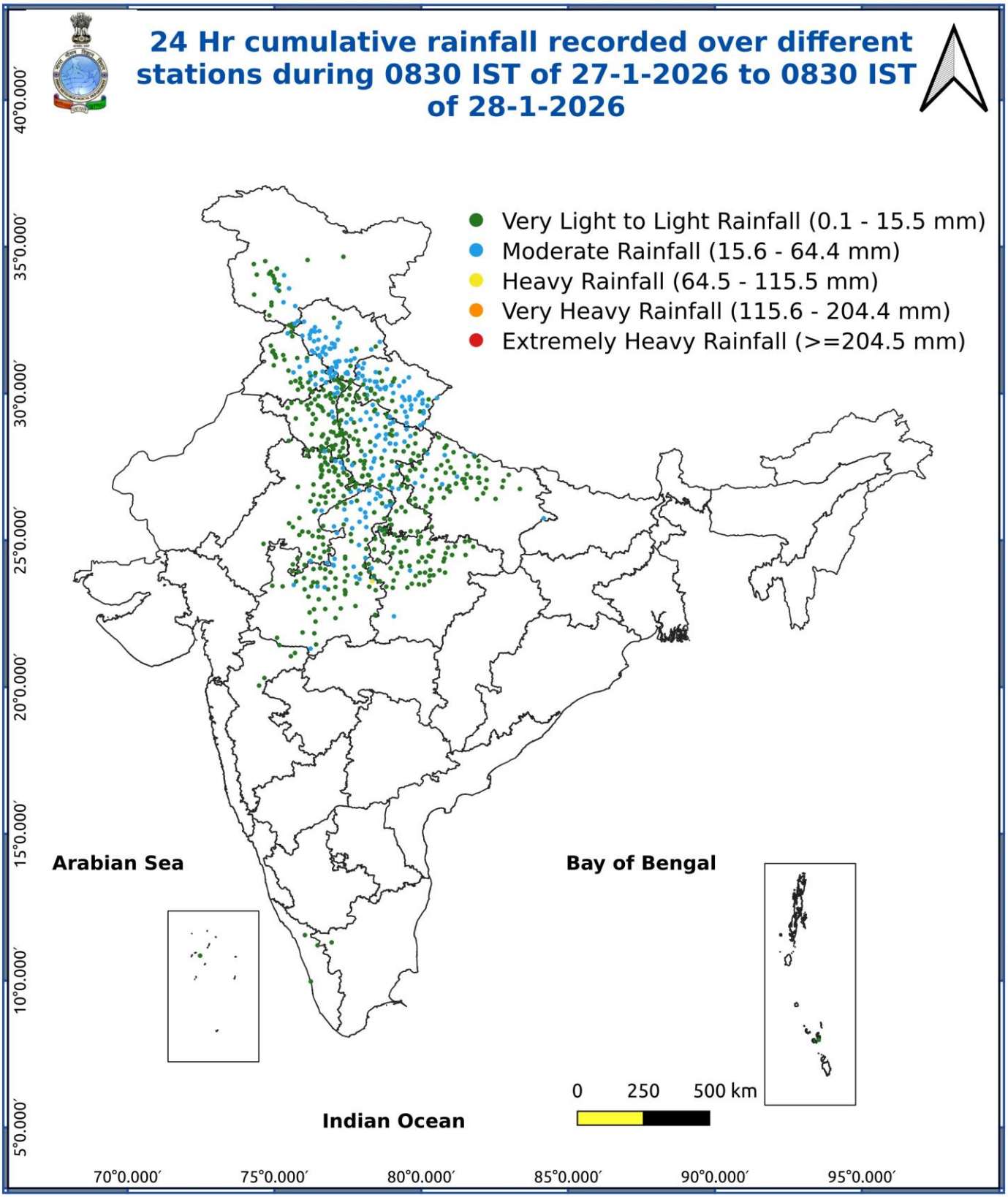


Fig. 4: Departure of Minimum Temp. Dated 2026-01-28



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 27-1-2026 to 0830 IST of 28-1-2026



Impact expected and action suggested due to isolated thunderstorm with lightning/ gusty winds & Hailstorm over

- Isolated rainfall/snowfall with **thunderstorm, lightning** over Uttarakhand on 28th January**.** Isolated light rainfall over Punjab, Haryana, Chandigarh, Uttar Pradesh on 28th; **Isolated** light rainfall with **thunderstorm, lightning** over East Uttar Pradesh on 28th January.
- **Isolated** light/moderate rainfall accompanied with thunderstorm, lightning very likely over Bihar, Chhattisgarh on 28th and **isolated Hailstorm activity also likely over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim on 28th January.**

Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

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

- **Dense fog** conditions likely during night/night hours in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha till 30th, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh till 31st; Sub-Himalayan West Bengal & Sikkim, Bihar during 30th-31st 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.

Impact expected due to Cold Wave/ Severe Cold wave conditions:

- **Cold wave** conditions likely in isolated pockets over Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi during 28th-31st 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:

- Wear several layers of loose fitting, light weight; warm woollen clothing.
- Cover your head, neck, hands and toes adequately as majority of heat loss occurs through these body parts. Wear several layers of loose fitting, light weight; warm woollen clothing rather than one layer of heavy cloth.
- Eat vitamin-C rich fruits & vegetable and drink sufficient fluids preferably warm fluids to maintain adequate immunity.
- Avoid or limit outdoor activities.
- Keep dry, if wet, change cloths immediately to prevent loss of body heat. Wear insulated/waterproof shoes.
- Warm the affected area of the body slowly with lukewarm water; do not rub the skin vigorously.
- If the affected skin area turns black, immediately consult a doctor.
- Maintain ventilation while using Heaters to avoid inhaling toxic fumes.
- Take safety measures while using electrical and gas heating devices.
- Extreme care needed for vulnerable people.
- Seek medical attention as soon as possible for someone suffering from frostbite/ Hypothermia.
- Protect livestock from cold weather.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Heavy Snowfall

- Gently shake the fruit bearing trees to remove snow immediately from the branches in areas with heavy snowfall.

Agromet advisories for likely impact of Hailstorm

- Use hail nets to protect orchards and vegetable plants in Sub Himalayan West Bengal & Sikkim and Chhattisgarh

Agromet advisories for likely impact of Cold Waves / Low Temperatures

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

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

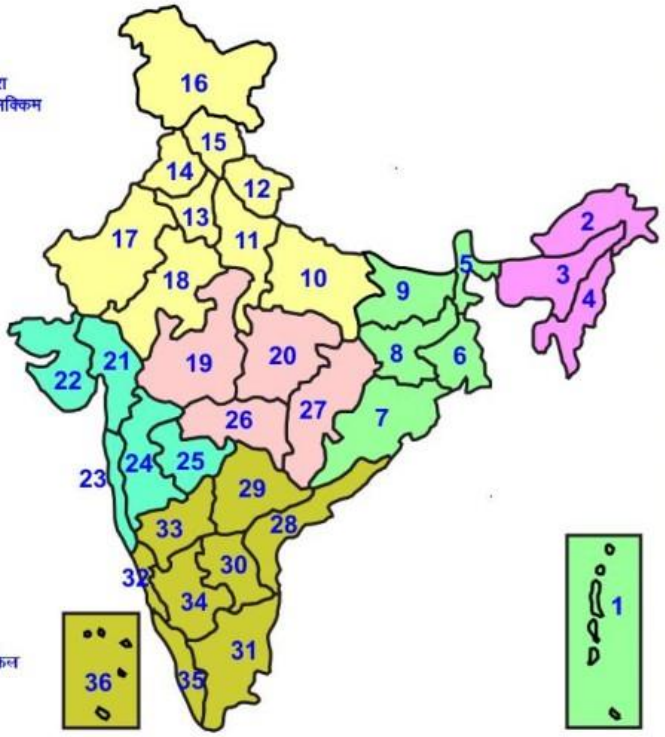
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Livestock / Poultry

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

LEGENDS

1 अंडमान और निकोबार द्वीप समुह
2 अरुणाचल प्रदेश
3 असम और मेघालय
4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
5 उप हिमालय पश्चिम बंगाल एंवम् सिक्किम
6 पश्चिम गांगेय बंगाल
7 ओडिसा
8 झारखडं
9 बिहार
10 पूर्वी उत्तर प्रदेश
11 पश्चिम उत्तर प्रदेश
12 उत्तराखंड
13 हरियाणा चंडिगढ़ एंवम् दिल्ली
14 पंजाब
15 हिमाचल प्रदेश
16 जम्मू एवंम कश्मीर एवंम लद्दाख
17 पश्चिम राजस्थान
18 पूर्वी राजस्थान
19 पश्चिम मध्य प्रदेश
20 पूर्वी मध्य प्रदेश
21 गुजरात क्षेत्र
22 सौराष्ट्र एंवम् कच्छ
23 कोंकण एंवम् गोवा
24 मध्य महाराष्ट्र
25 मराठावाडा
26 विदर्भ
27 छत्तीसगढ़
28 तटीय आंध्र प्रदेश एवं यनम
29 तेलंगाना
30 रायलसीमा
31 तमिलनाडु ,पुदुचेरी एवंम कराईकल
32 तटिय कर्नाटक
33 आंतरिक उत्तरी कर्नाटक
34 आंतरिक दक्षिणी कर्नाटक
35 केरल एवंम 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 Rajsthan
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 Widespred (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
Hailstrom
Dust Strom
Dust Raising Winds
Strong surface winds
Heat Wave
Hot Day
Warm Night
Cold Wave
Cold Day
Ground Frost
FOG 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 ≥40° C for plains and ≥30° 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 ≥6.5° C

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature ≥45°C.
Severe Heat Wave: When actual maximum temperature ≥47°C

(c). Criteria for heat wave for coastal stations
When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C

Warm Night

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 °C.

Cold Wave

When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C

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

Cold Wave : When Minimum Temperature is ≤ 4.0 °C
Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C

(c) For Coastal Stations
When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C

Cold Day

When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility < 1km

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 ≤4°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)