

2026-02-02

Time of Issue: 13:27:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings

- **Isolated to Scattered** rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 02nd and Himachal Pradesh and Uttarakhand on 02nd & 03rd February.
- **Isolated to Scattered** light rainfall with **thunderstorm, lightning** with **gusty winds speed reaching (30-40 gusting to 50 kmph)** likely over Uttar Pradesh, East Rajasthan and north Madhya Pradesh on 02nd & 03rd and over Gujarat Region on 02nd February 2026.
- **Isolated Hailstorm activity also likely** over West Uttar Pradesh, East Rajasthan and West Madhya Pradesh on 02nd February, 2026

Forecast of minimum temperatures:

- No significant change in minimum temperatures likely over northwest, central & east India during next 7 days.
- Gradual rise in minimum temperature by 2-4°C over Maharashtra during next 3 days and no significant change thereafter.

Dense Fog, Cold day Warnings:

- **Dense to very dense fog conditions** likely during morning/night hours at isolated/ few places over Punjab till 3rd; West Uttar Pradesh till 05th; East Uttar Pradesh on 03rd & 04th and **dense fog** conditions over Punjab, Haryana Chandigarh, Rajasthan, Bihar, Odisha and north Madhya Pradesh till 04th; Sub-Himalayan West Bengal & Sikkim till 03rd February 2026.

Fisherman Warning:

Fishermen are advised not to venture into the following areas during 02nd February to 07th February, 2026:

- **Bay of Bengal:** Comorin area during 02nd to 07th February; over parts of Gulf of Mannar adjoining to Comorin area on 03rd & 04th February; over Gulf of Mannar on 02nd, 05th & 06th February; Along and off south Tamil Nadu and west Sri Lanka coasts on 02nd, 05th & 06th February.
- **Arabian Sea:** over parts of Maldives area adjoining to Comorin area on 05th & 06th February.

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Main Weather Observations:

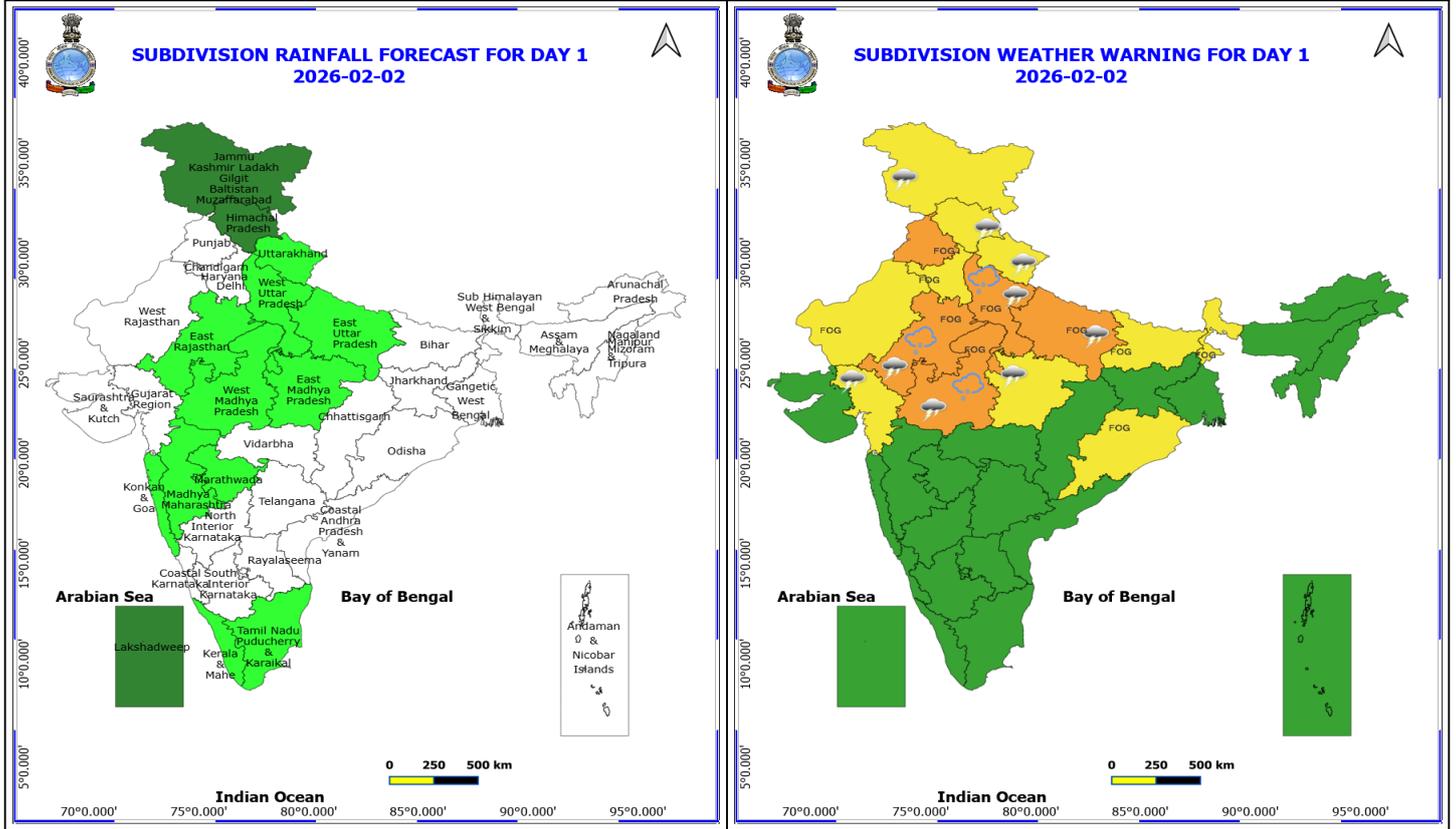
- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Himachal Pradesh; **at many places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **at isolated places** over East Uttar Pradesh, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal; **Dry** over rest of the country.
- ❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **East Madhya Pradesh:** Orchha (dist Niwari) 4; Badagaon Dhasan (dist Tikamgarh) 1; **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:** Badarwah (dist Doda) 3; Kishtwar (dist Kistwar), Gund (dist Ganderbal) 2 Each; Batote (dist Ramban), Udampur(IAF) (dist Udampur) 1 Each; **Tamil Nadu, Puducherry & Karaikal:** Nalumukku (dist Tirunelveli), Oothu (dist Tirunelveli) 2 Each; K.m.koil (dist Cuddalore), Karaikal (dist Karaikal), Neivasal Thenpathi (dist Thanjavur), Kakkachi (dist Tirunelveli), Manjolai (dist Tirunelveli) 1 Each; **Punjab:** Phangota (dist Pathankot) 2; Ranjit Sagar Dam Site (dist Pathankot), Thein Dam AWS (dist Pathankot) 1 Each;
- ❖ **Dense to very Dense fog(visibility <50 m) conditions** prevailed at a few places over Punjab, Haryana and Uttar Pradesh; in isolated pockets of East Rajasthan and **dense fog (visibility 50-199 m)conditions** in isolated pockets over Himachal Pradesh, Bihar and Odisha
- ❖ **Visibility Reported (In Meters ?200 m):** **Himachal Pradesh:**Bilaspur(100); **Punjab:**Patiala (40), Halwara (50), Faridkot (100) Bhatinda (50); Haryana:Hisar (40), Karnal (70), Ambala (100), Narnaul (20), Bhiwani (10), Sirsa (<50); West Uttar Pradesh:Ams Aligarh, Sarsawa(IAF) Agra(IAF) & Hindon(IAF)-00 Each, Agra Taj-20, Aligarh-30, Moradabad-40, Muzaffarnagar & Meerut-50 Each, Bareilly-60,; East Uttar Pradesh:Gorakhpur(IAF)(0), Bahraich(40), AMS Ayodhya, AMS Kushinagar, AMS Fursatganj & Azamgarh (50) Each, AMS Chitrakoot(100); East Rajasthan:Sikar(<50),Bhilwara(>50); **Bihar:**Chapra (50); **Odisha:**Chhatrapur, Angul, Khordha (100)
- ❖ **Light to moderate rainfall/snowfall** occurred at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh
- ❖ **Light to moderate rainfall** occurred at isolated places over Uttarakhand, Punjab, Uttar Pradesh, Haryana, and East Rajasthan.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed **30-50 kmph** over Jammu & Kashmir.
- ❖ **Hailstorm** reported over Uttarakhand, West Uttar Pradesh and West Madhya Pradesh
- ❖ **Minimum Temperature Departures (as on 02-02-2026):** **Minimum Temperature Departures** were above normal by (3°C to 5°C) over Haryana, Chandigarh, Uttar Pradesh, Rajasthan, Madhya Pradesh and Saurashtra & Kutch by (1°C to 3°C) over Western Himalayan Region, Bihar, Odisha, Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Assam & Meghalaya and Gangetic West Bengal, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands and near normal over rest parts of the country **The lowest minimum temperature of 5.8°C** is reported at **BHATINDA (PUNJAB)** over the Plains of India.
- ❖ **Maximum Temperature Departures (as on 01-02-2026):** **The highest maximum temperature** of 36.8°C was reported at **KARWAR (KARNATAKA)**.

Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance** now seen as a **cyclonic circulation** over Punjab & adjoining Haryana at 3.1 km above mean sea level. However, the trough aloft in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 70°E to the north of Lat. 30°N has moved away in east-northeastwards direction.
- A fresh **western disturbance** seen as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly between Lat. 67°E /Long.30°N and Lat. 62°E/ Long. 20°N.
- A **trough** in easterlies lay over off south Kerala to south Karnataka coast at 0.9 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 continues to prevail over Northeast India.
- Another fresh **western disturbance** is likely to affect western Himalayan region from the night of 05th February 2026.
- The **upper air cyclonic circulation** over southeast Arabian sea adjoining Lakshadweep area and Kerala coast at 0.9 km above mean sea level has become less marked.
- The upper air **cyclonic circulation** over Comorin area & neighbourhood extending upto 1.5 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

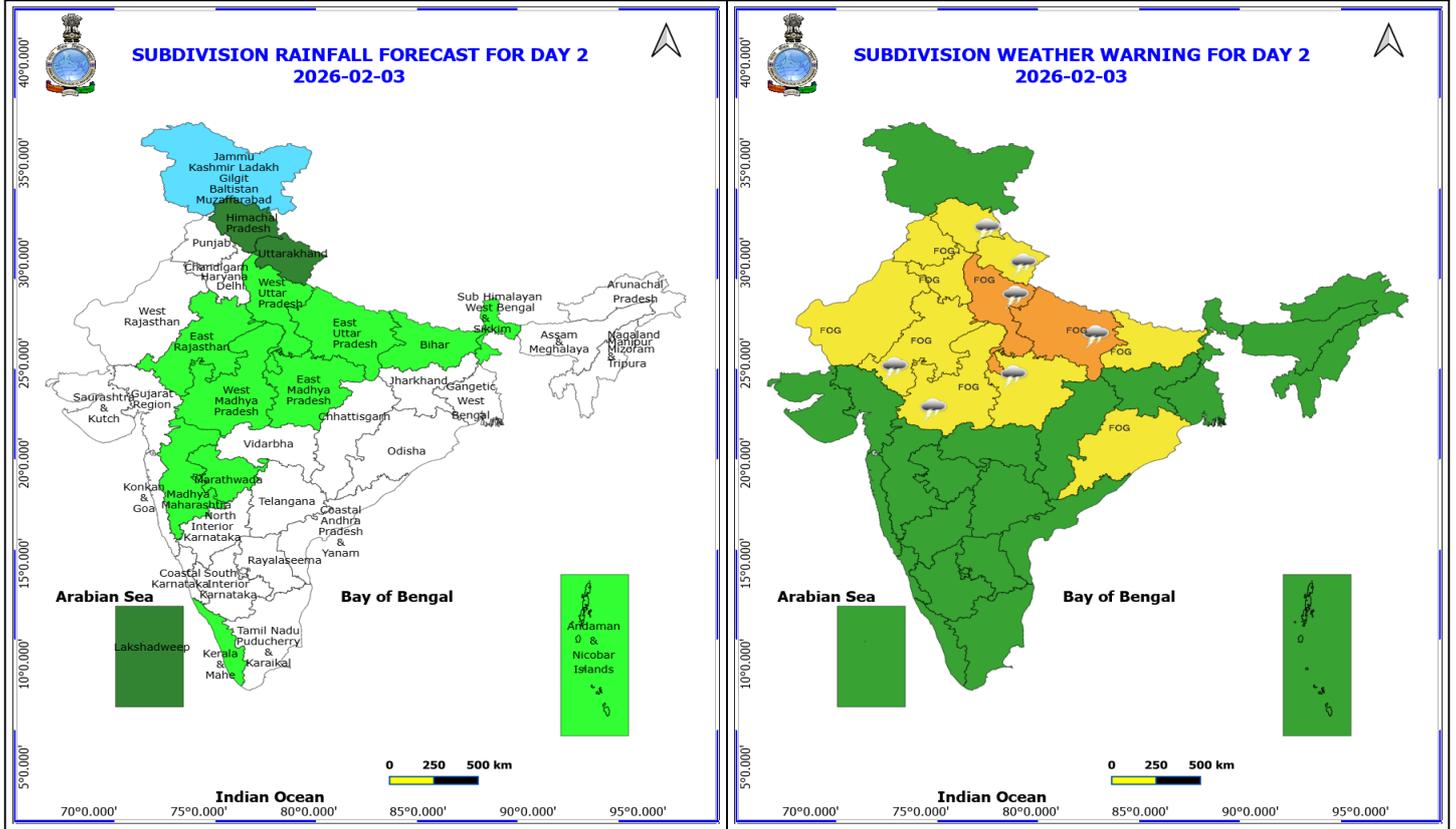
- Isolated/Scattered rainfall/snowfall activity likely over Western Himalayan Region.
- Isolated/Scattered rainfall activity likely over Punjab, Uttar Pradesh, Tamil Nadu and Madhya Pradesh.



2 February (Day 1)

- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over East Rajasthan, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over East Uttar Pradesh, Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over East Rajasthan, Gujarat Region, Madhya Pradesh and Uttarakhand.
- ❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Odisha, Rajasthan, Sub Himalayan West Bengal & Sikkim and West Madhya Pradesh.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Punjab and Uttar Pradesh.
- ❖ **Squally weather with wind speed reaching 35-45 gusting to 55 kmph** over Gulf of Mannar, Comorin area.

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3 February (Day 2)

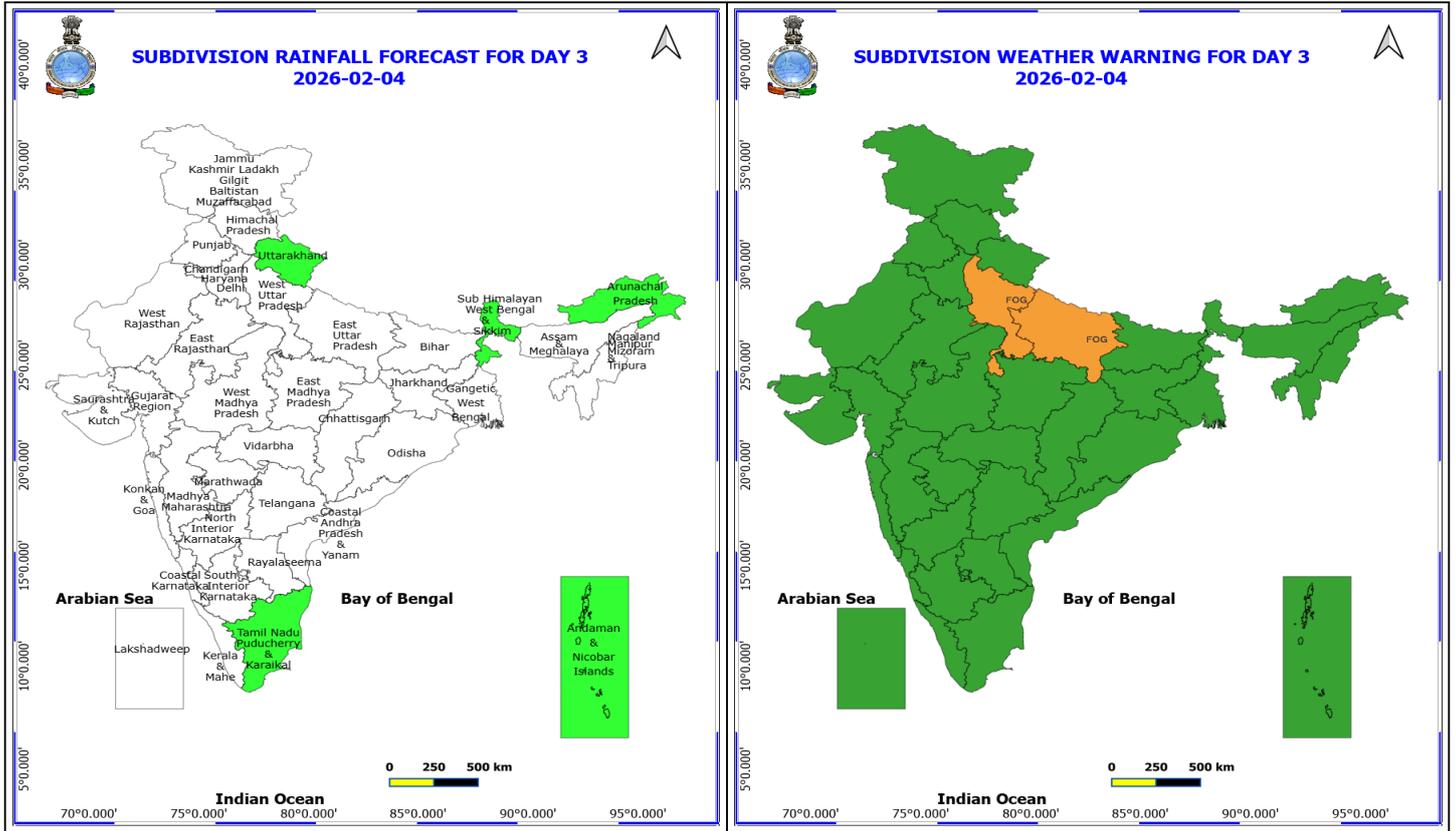
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Himachal Pradesh, Uttarakhand and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over East Rajasthan, East Uttar Pradesh and Madhya Pradesh.
- ❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Odisha, Punjab, Rajasthan and West Madhya Pradesh.
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Uttar Pradesh.
- ❖ **Squally weather with wind speed reaching 35-45 gusting to 55 kmph** over Comorin area and adjoining Gulf of Mannar.

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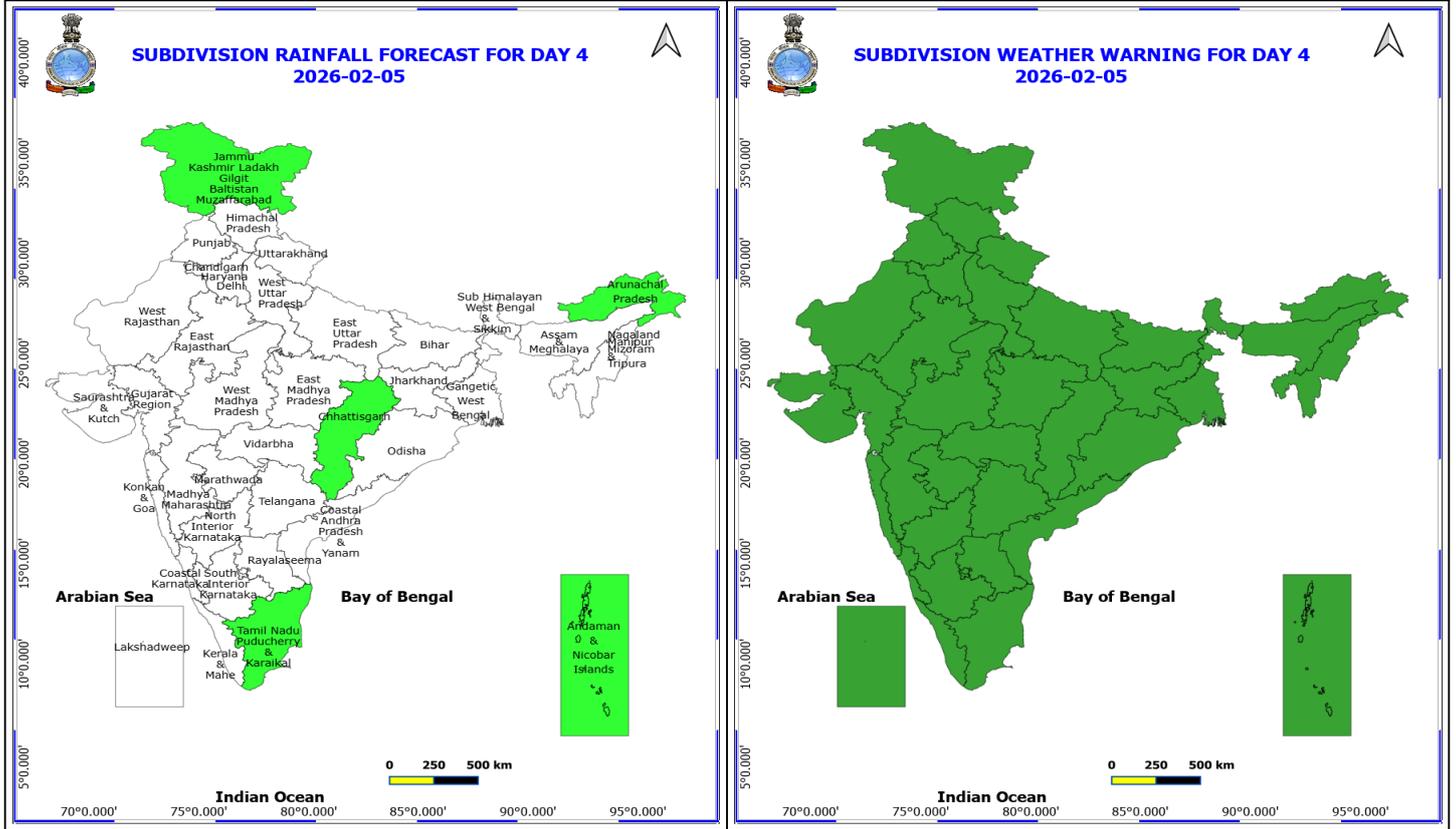
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4 February (Day 3)

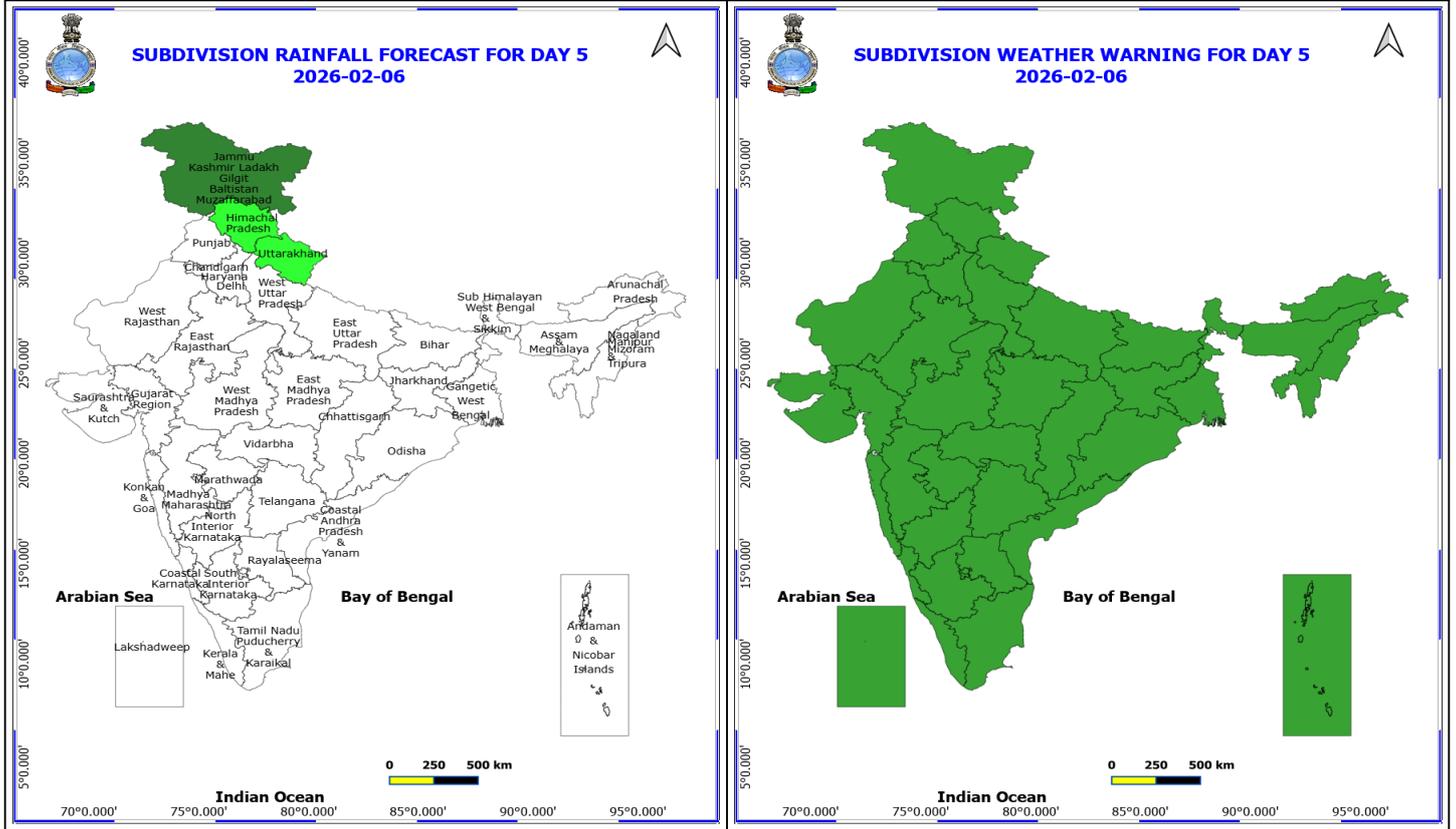
- ❖ **Dense to Very Dense Fog** very likely at isolated places over Uttar Pradesh.
- ❖ **Squally weather with wind speed reaching 35-45 gusting to 55 kmph** over Comorin area and adjoining Gulf of Mannar.



5 February (Day 4)

No Warning

❖ **Squally weather with wind speed reaching 35-45 gusting to 55 kmph over Comorin area & adjoining Maldives area, over Gulf of Mannar.**



6 February (Day 5)

No Warning

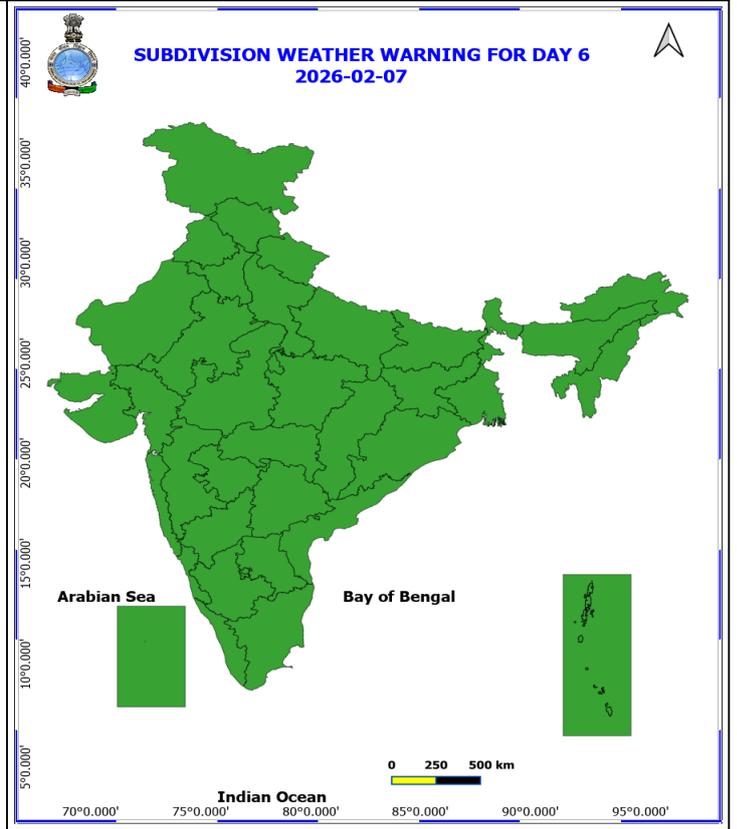
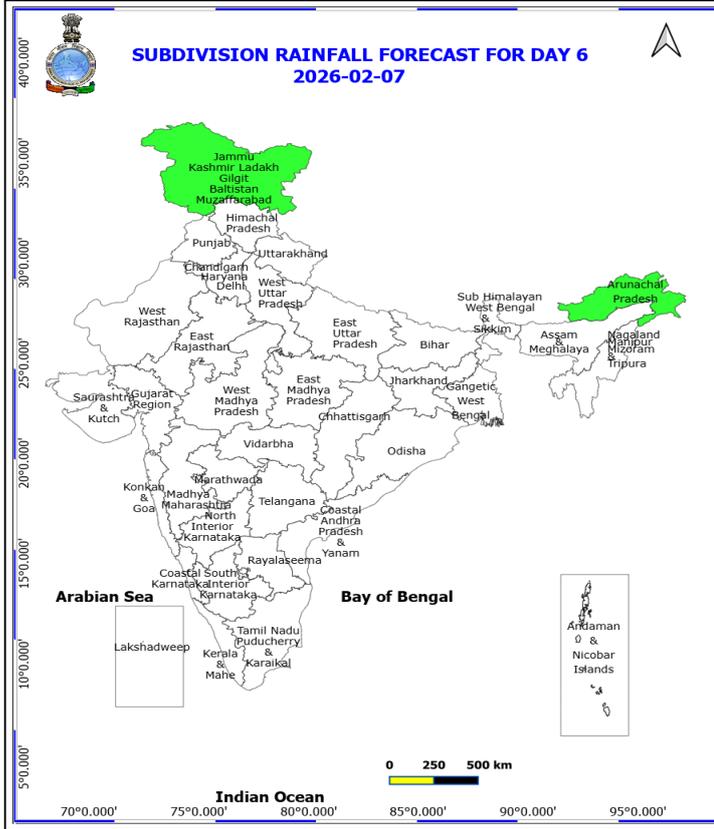
❖ **Squally weather with wind speed reaching 35-45 gusting to 55 kmph over Comorin area & adjoining Maldives area, over Gulf of Mannar.**

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7 February (Day 6)

No Warning

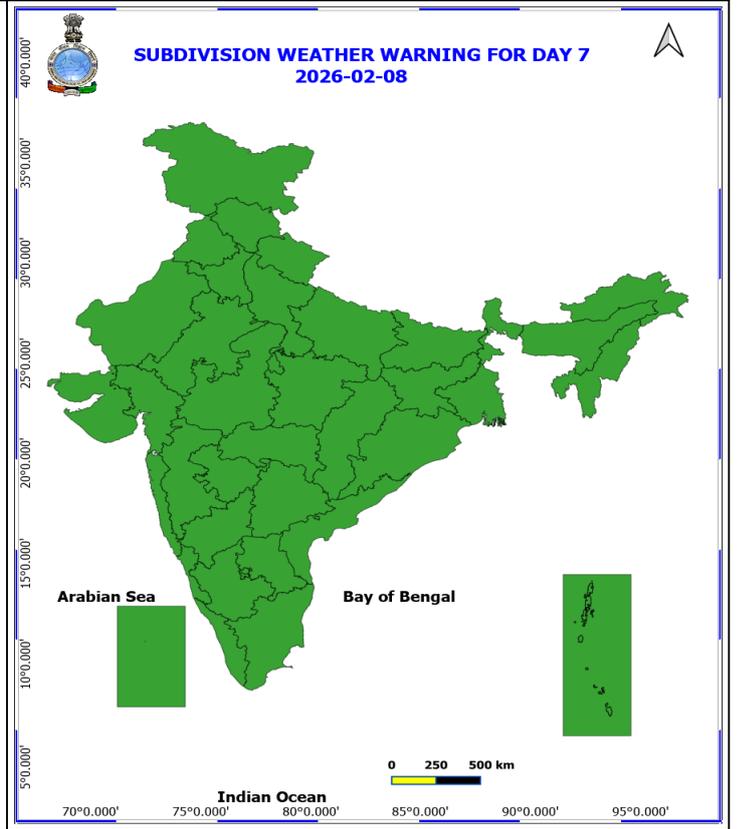
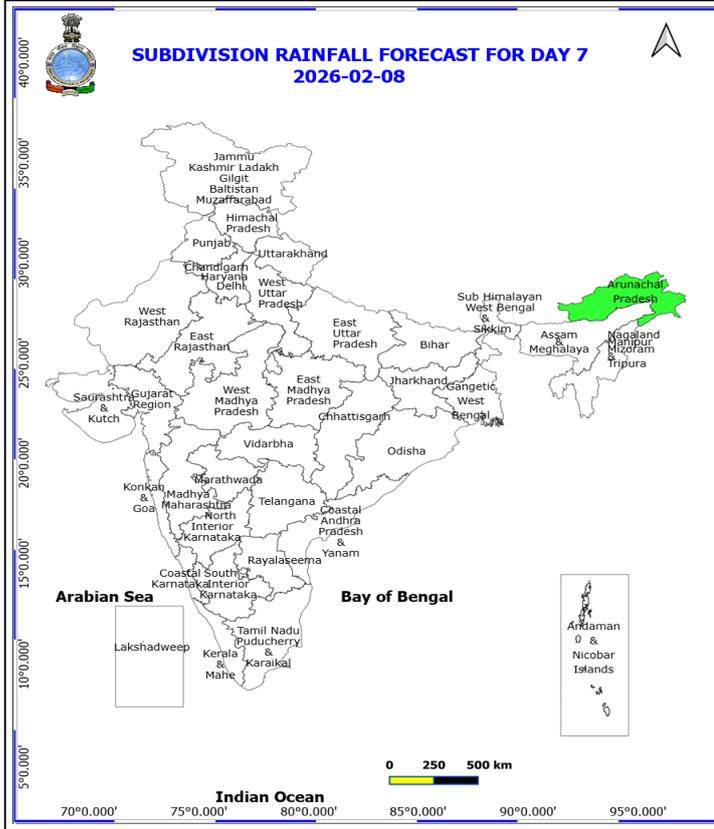
No Fishermen Warning

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8 February (Day 7)

No Warning

No Fishermen Warning

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Table-1

7 Days Rainfall Forecast

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

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

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Fig. 1: Maximum Temperatures Dated 2026-02-01

Fig. 2: Departure of Maximum Temp. Dated 2026-02-01

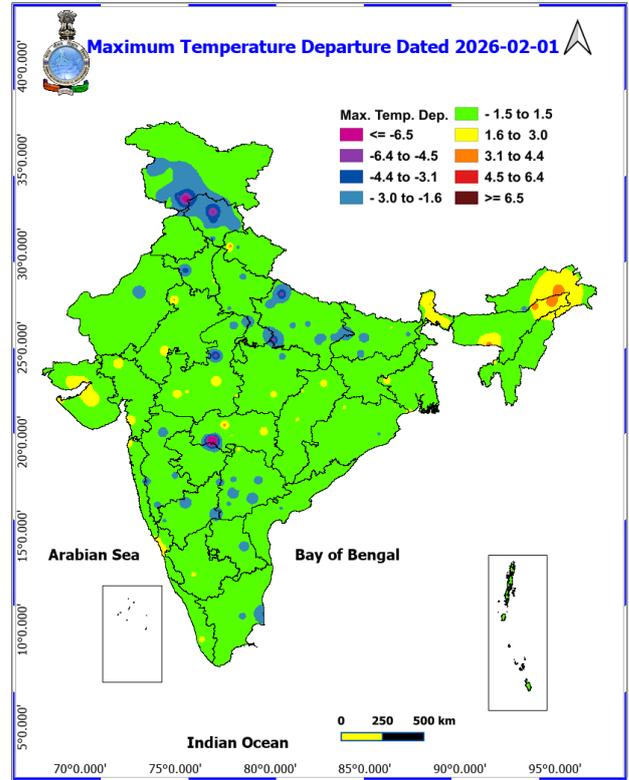
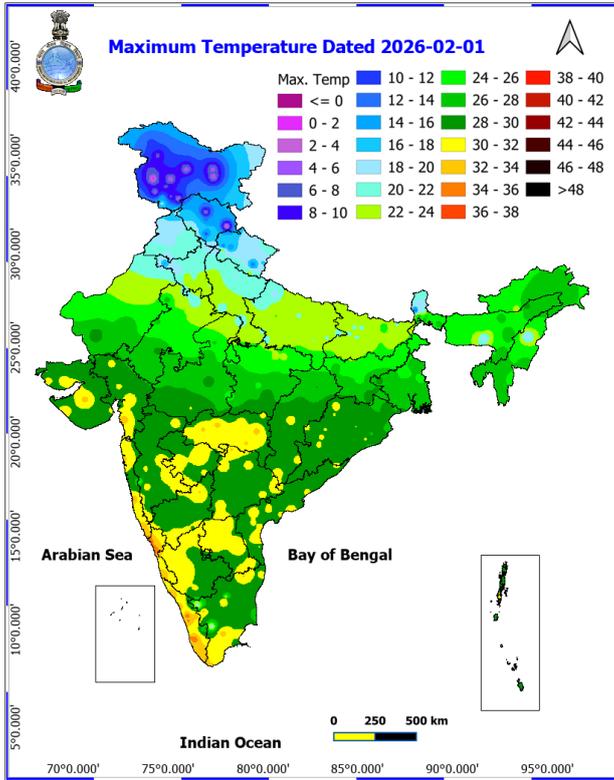
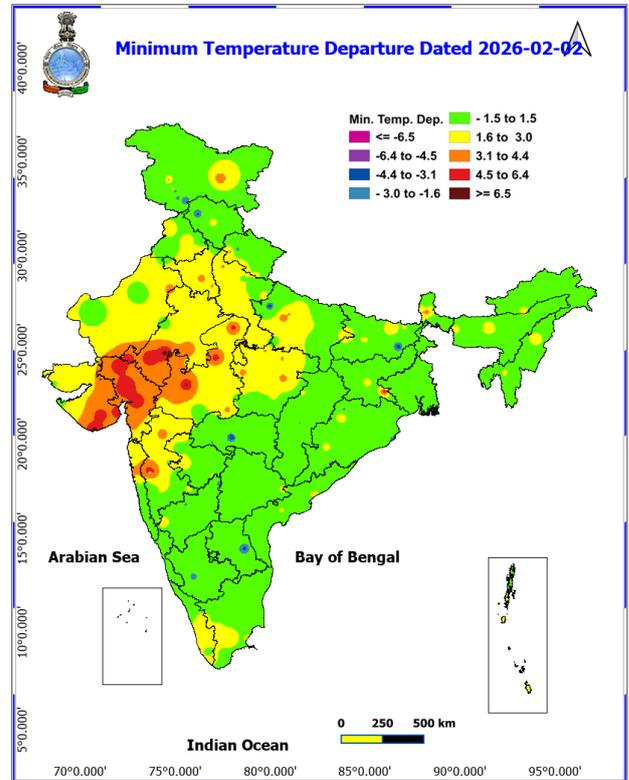
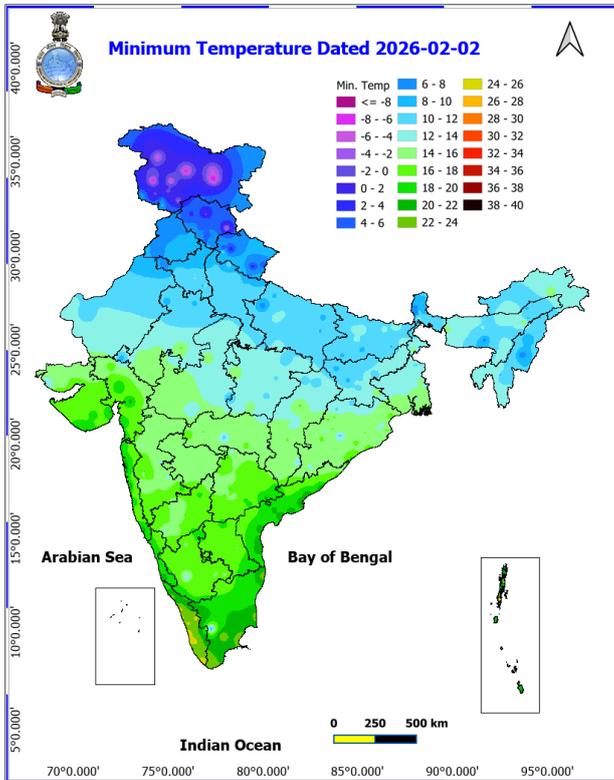
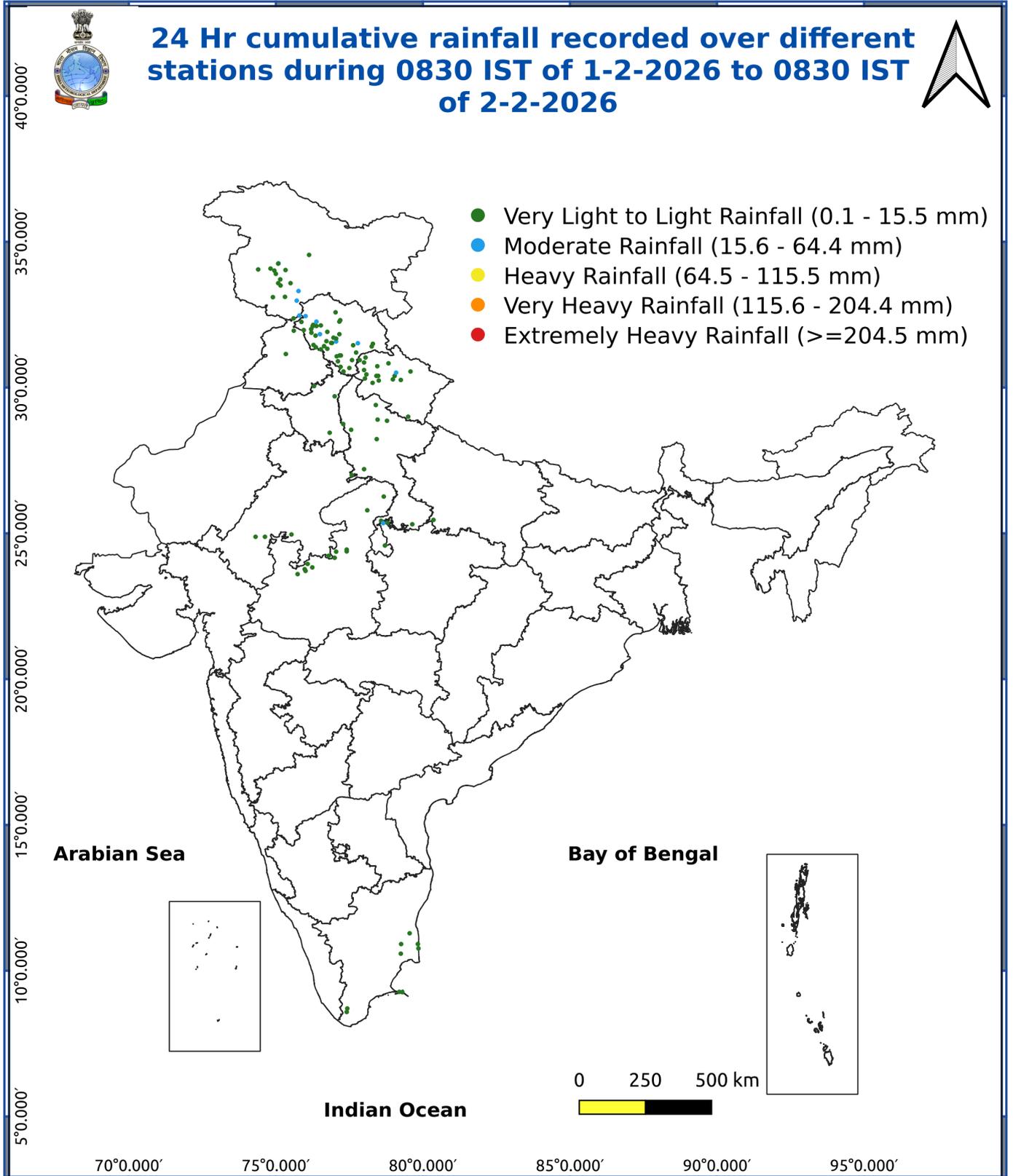


Fig. 3: Minimum Temperatures Dated 2026-02-02

Fig. 4: Departure of Minimum Temp. Dated 2026-02-02





Impact and Actions

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

- **Dense to very dense fog conditions** likely during morning/night hours at isolated/ few places over Punjab till 3rd; West Uttar Pradesh till 05th; East Uttar Pradesh on 03rd & 04th and **dense fog** conditions over Punjab, Haryana Chandigarh, Rajasthan, Bihar, Odisha and north Madhya Pradesh till 04th; Sub-Himalayan West Bengal & Sikkim till 03rd February 2026.
- **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 and action suggested due to isolated thunderstorm with lightning/gustywinds

- **Isolated to Scattered** rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 02nd and Himachal Pradesh and Uttarakhand on 02nd & 03rd February.
- **Isolated to Scattered** light rainfall with **thunderstorm, lightning** with **gusty winds speed reaching (30-40 gusting to 50 kmph)** likely over Uttar Pradesh, East Rajasthan and north Madhya Pradesh on 02nd & 03rd and over Gujarat Region on 02nd February 2026.
- **Isolated Hailstorm activity also likely** over West Uttar Pradesh, East Rajasthan and West Madhya Pradesh on 02nd February, 2026.

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.

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- 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.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Hailstorm

- Use hail nets to protect orchards and vegetable plants in West Uttar Pradesh, East Rajasthan and West Madhya Pradesh.

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

- Keep the animals inside the shed during Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.

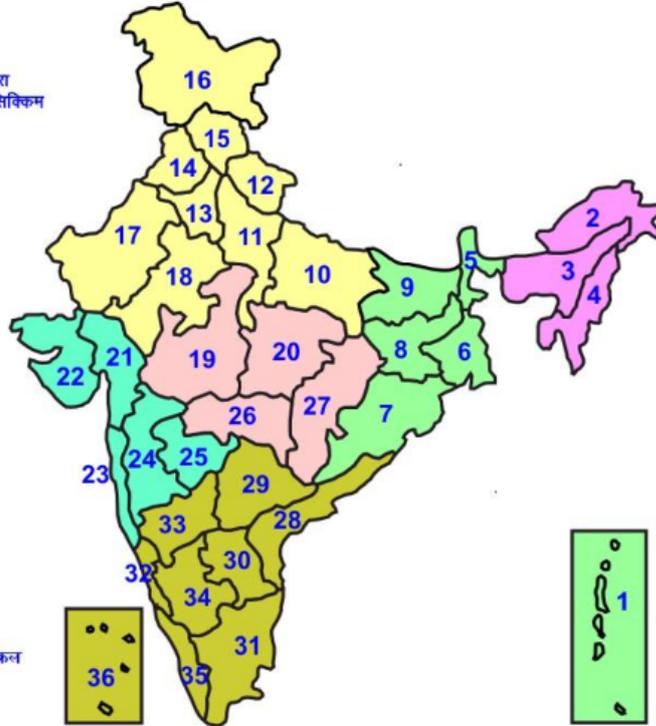
Legends & abbreviations:

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

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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)

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