

2026-02-03

Time of Issue: 13:19:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings

- **Scattered to Fairly widespread** rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 3rd February.
- Isolated to scattered rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 5th & 6th February.
- **Isolated to Scattered to** rainfall/snowfall with **thunderstorm, lightning** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 8th & 9th and isolated to scattered rainfall likely over plains of northwestern and central India on 9th February.
- **Isolated to Scattered** light rainfall with **thunderstorm, lightning** with **gusty winds speeds reaching (30-40 gusting to 50 kmph)** likely over Uttar Pradesh on 03rd February 2026.
- **Isolated Hailstorm activity also likely** over East Uttar Pradesh on 03rd 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 2-3°C over Maharashtra during next 48 hours, gradual fall by 2-3°C 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, Haryana, Chandigarh and Uttar Pradesh till 4th and **dense fog** conditions over Rajasthan till 4th; Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh and Madhya Pradesh till 5th; East Uttar Pradesh till 6th; Sub-Himalayan West Bengal & Sikkim on 4th & 5th and Bihar during 4th -6th February 2026.

*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)

Main Weather Observations:

- **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places** over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **at isolated places** over Andaman & Nicobar Islands, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, 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): **Kerala & Mahe:** Piravam (dist Ernakulam) 4; Ernakulam South (dist Ernakulam) 3; Kochi IAF (dist Ernakulam), Chavara AWS (dist Kollam) 2 Each; Kurudamannil (dist Pathanamthitta), Kanjirappally (dist Kottayam), Mattanchery AWS (dist Ernakulam), Kalamassery AWS (dist Ernakulam), Laha AWS (dist Pathanamthitta) 1 Each; **Himachal Pradesh:** Manali (dist Kullu) 2.
- **Dense to very Dense fog(visibility <50 m) conditions** prevailed at a few places over Uttar Pradesh; **in isolated pockets** of Himachal Pradesh, Meghalaya, East Rajasthan & West Madhya Pradesh and **dense fog (visibility 50-199 m) conditions** in isolated pockets over Uttarakhand
- **Visibility Reported (In Meters ?200 m): West Uttar Pradesh:** Ams Aligarh, Hindon(IAF), Sarsawa(IAF), Agra(IAF), Bareilly(IAF)(00) Each, Agra(Taj)(30), Ams Moradabad, Najibabad & Meerut(50) Each, Bareilly(80), Moradabad& Muzaffarnagar (100) Each; **East Uttar Pradesh's** Ayodhya & Gorakhpur(IAF)(00) Each, Gorakhpur(10), Bahraich(40), AMS Kushinagar & Kanpur(City)(50) Each, Fatehgarh(100), Hardoi(150), Azamgarh & Barabanki(200) Each; **Himachal Pradesh:** Bilaspur(30);**Uttarakhand:** Dense Fog: Jollygrant, Pantnagar, Khatima, Roorkee, Laksar, Bhagwanpur; **East Rajasthan:** Sikar(<50m);**West Madhya Pradesh:** Gwalior (0), Bhopal (100); Meghalaya: Barapani (30)
- **Thunderstorm accompanied with Squally/Gusty winds** with speed **30-50 kmph** over Himachal Pradesh.
- **Hailstorm** reported over West Uttar Pradesh.
- **Minimum Temperature Departures (as on 03-02-2026):** **above normal by (3°C to 5°C)** over Punjab, Uttar Pradesh, Rajasthan, Madhya Pradesh, Madhya Maharashtra, Bihar, Gujarat and Saurashtra & Kutch; **by (1°C to 3°C)** over Western Himalayan Region, Odisha, Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Assam & Meghalaya and Gangetic West Bengal, Kerala & Mahe, Lakshadweep and Andaman & Nicobar Islands and near normal over rest parts of the country. **The lowest minimum temperature** of 3.6°C is reported at BHATINDA (PUNJAB) over the Plains of India.
- **Maximum Temperature Departures (as on 02-02-2026):** **The highest maximum temperature** of 36.4°C is reported at KARWAR (KARNATAKA).

*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

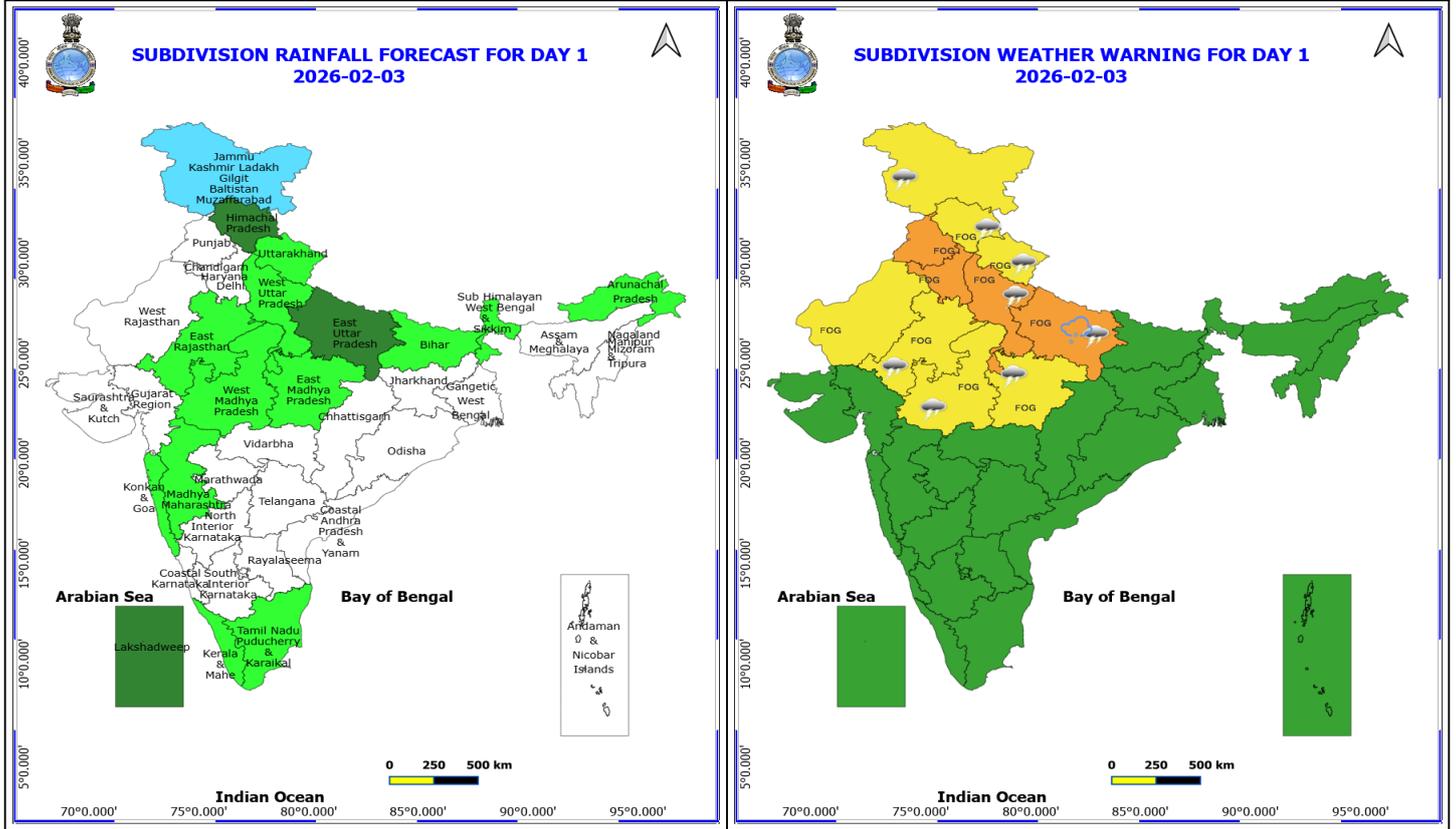
(Service to the nation since 1875)

Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance** now seen as a **cyclonic circulation** over north Pakistan & adjoining Punjab 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. 70°E to the north of Lat. 25°N.
- The **induced cyclonic circulation** over northeast Punjab & neighbourhood extending upto 1.5 km above mean sea level persists.
- The **trough** in easterlies off south Kerala to south Karnataka coast now seen as a **cyclonic circulation** over Lakshadweep & adjoining southeast Arabian sea at 0.9 km above mean sea level.
- A **trough** runs from south Kerala to off Karnataka coast at 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 continues to prevail over Northeast India.
- A fresh **western disturbance** is likely to affect western Himalayan region from the night of 05th February 2026.
- Another fresh **western disturbance** is likely to affect western Himalayan region from the night of 08th February 2026.
- The **Western Disturbance** as a **cyclonic circulation** over Punjab & adjoining Haryana at 3.1 km above mean sea level has become less marked.

Weather Outlook for subsequent 3 days

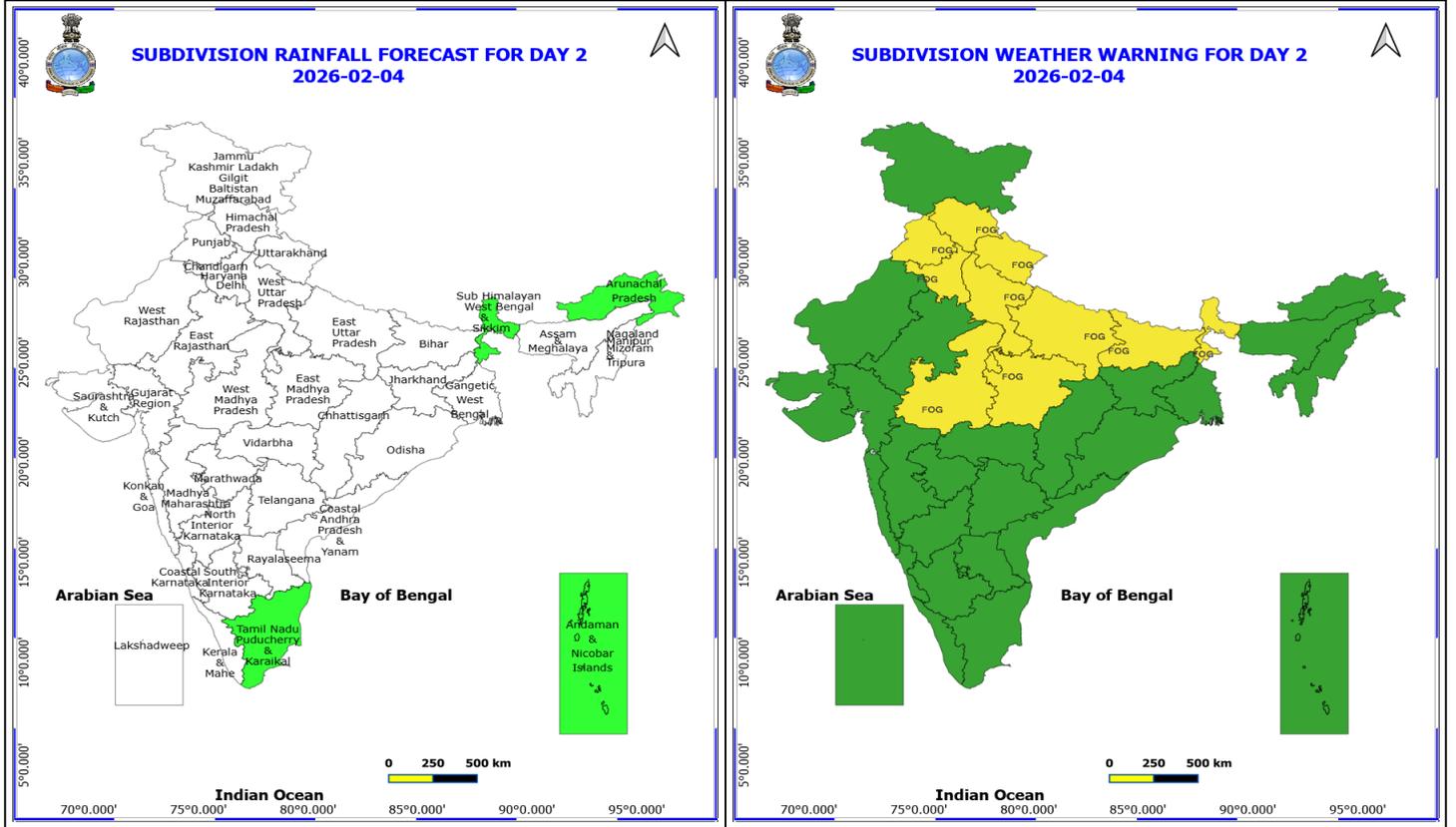
- Isolated/Scattered rainfall/snowfall activity likely over Western Himalayan Region.
- Isolated/Scattered rainfall activity likely over Punjab, Uttar Pradesh, Tamil Nadu and Madhya Pradesh.



3 February (Day 1)

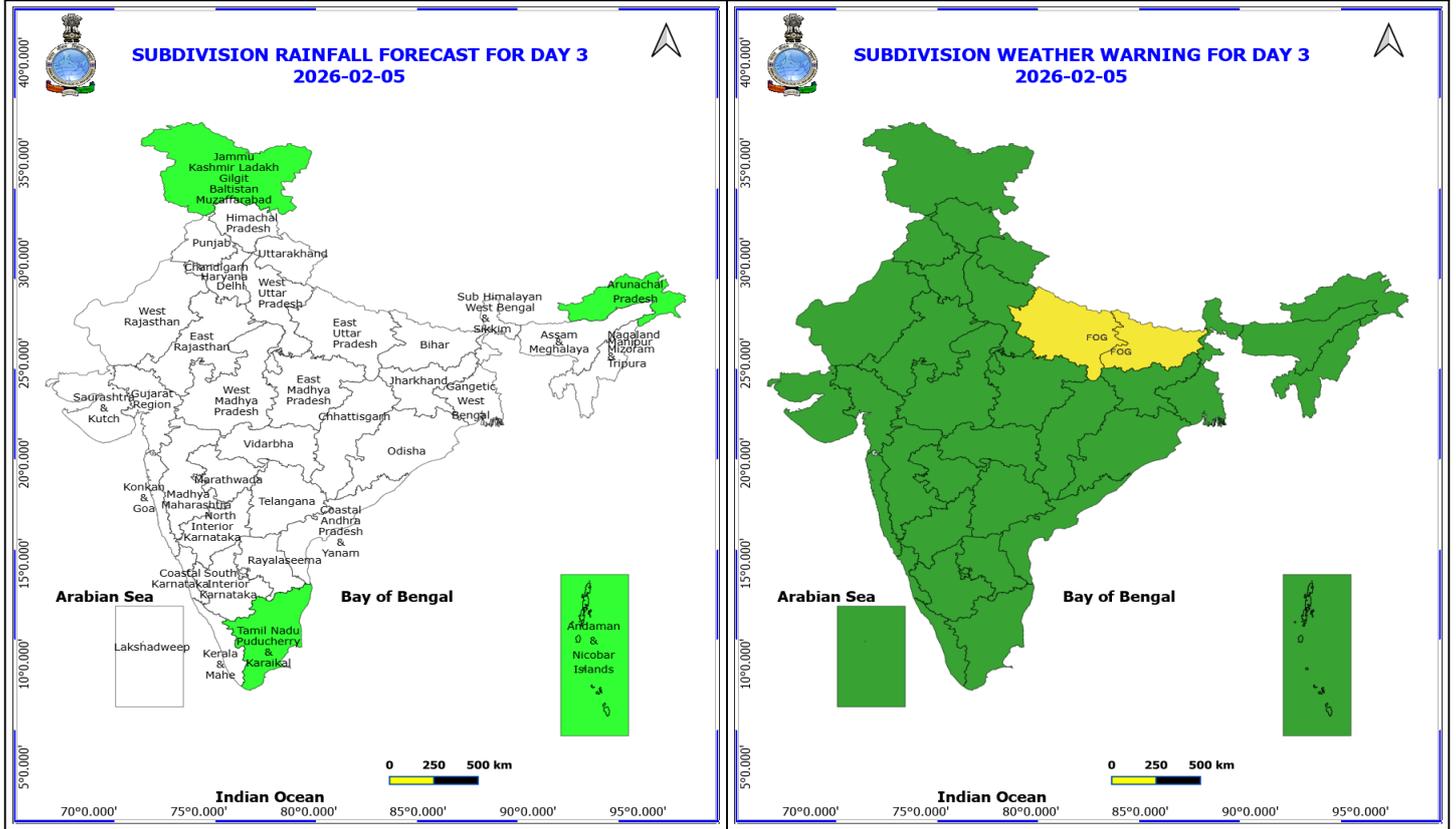
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over East Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over East Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)**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

***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)



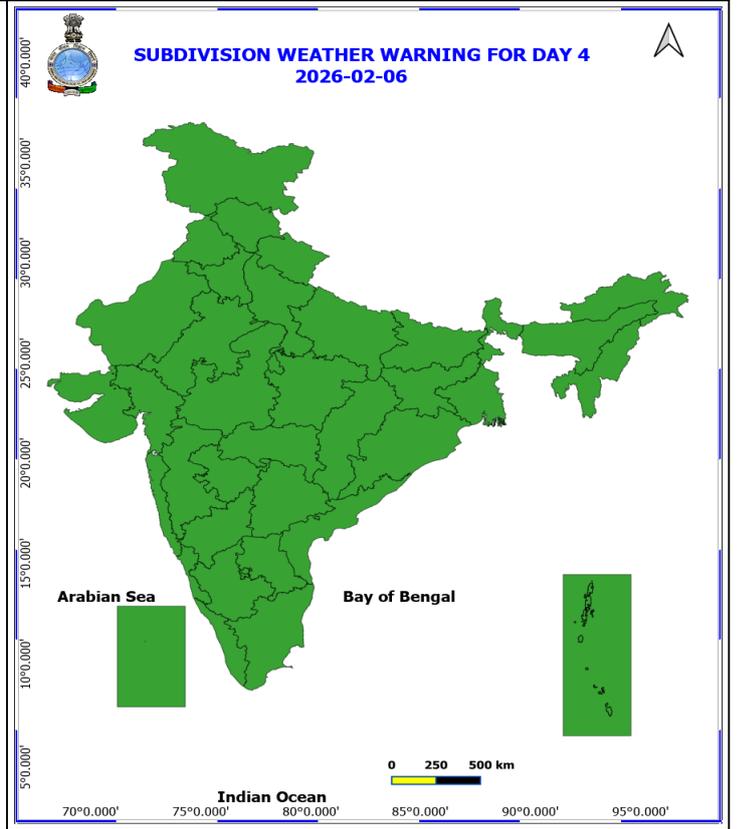
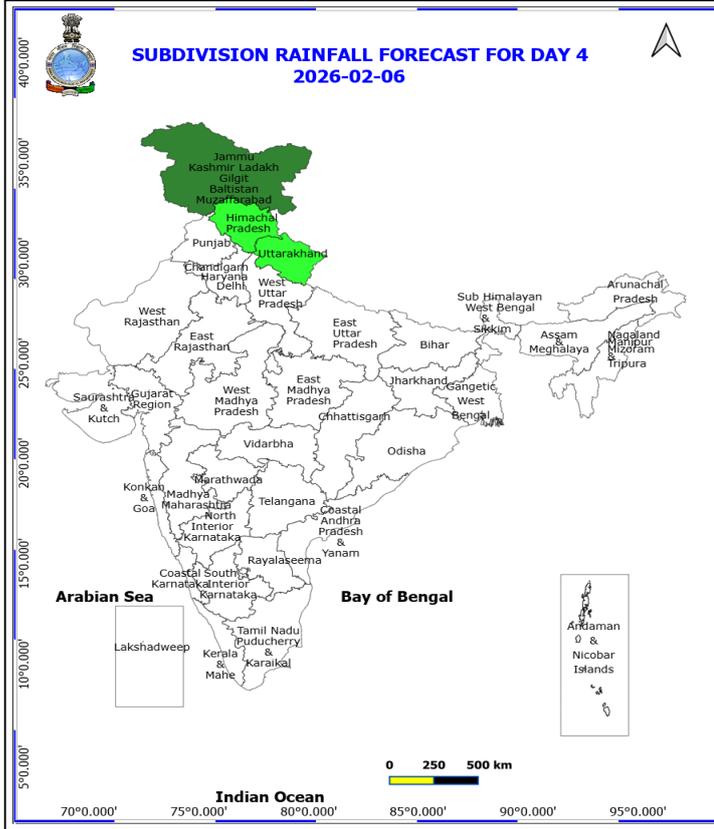
4 February (Day 2)

- ❖ **Dense Fog** very likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Madhya Pradesh, Punjab, Sub Himalayan West Bengal & Sikkim, Uttar Pradesh and Uttarakhand.
- ❖ **Squally weather with wind speed reaching 35-45 gusting to 55 kmph** over Comorin area and adjoining Gulf of Mannar.



5 February (Day 3)

- ❖ **Dense Fog** very likely at isolated places over Bihar and East Uttar Pradesh.
- ❖ **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 4)

No Warning

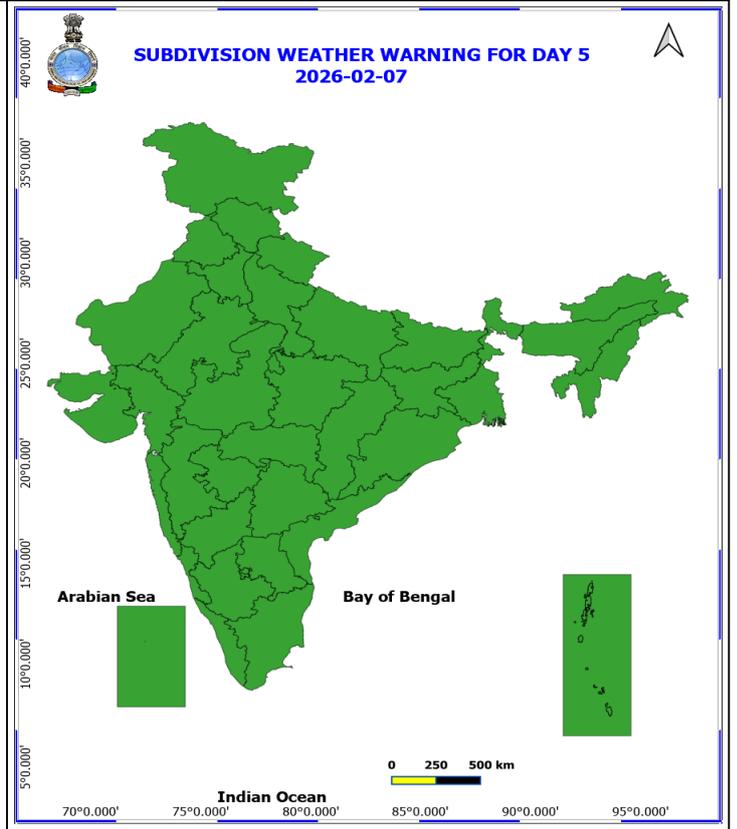
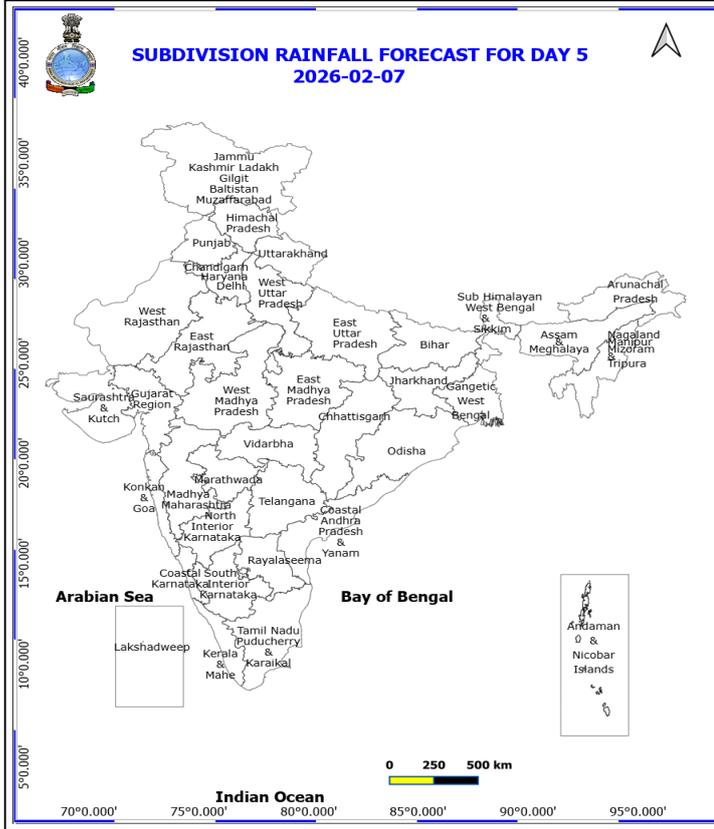
No Fishermen Warning

***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)



7 February (Day 5)

No Warning

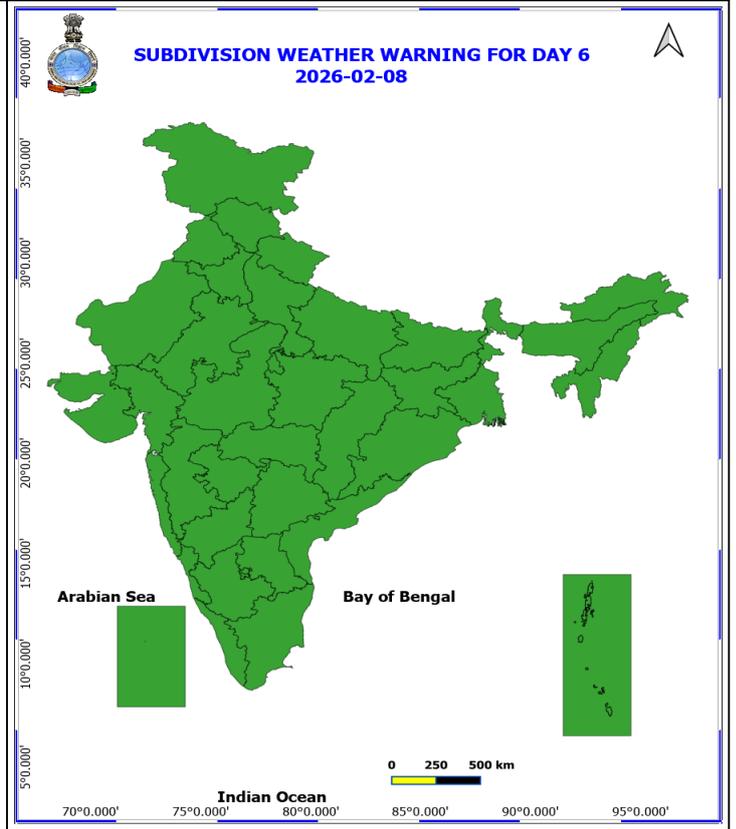
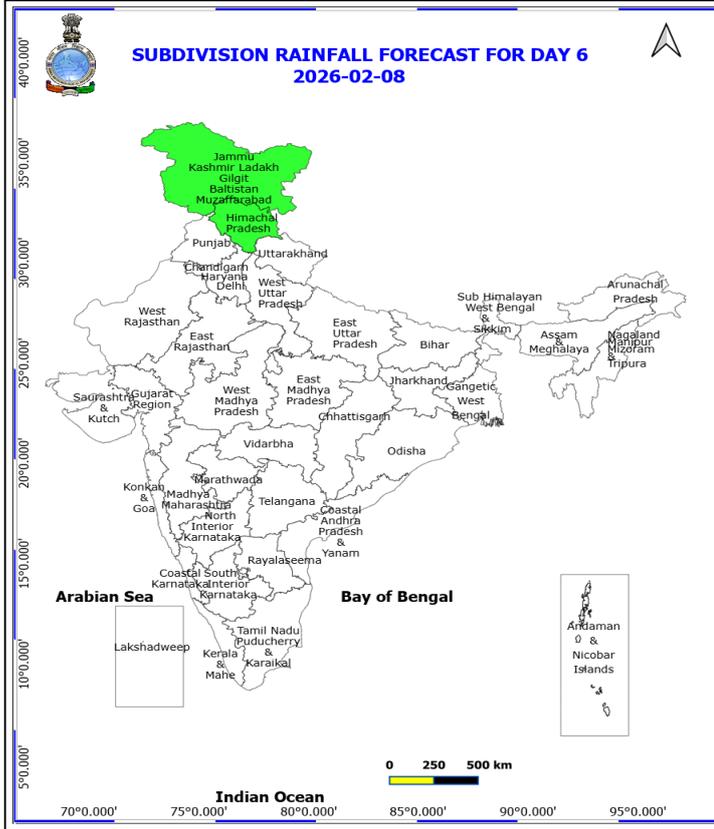
No Fishermen Warning

*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)



8 February (Day 6)

No Warning

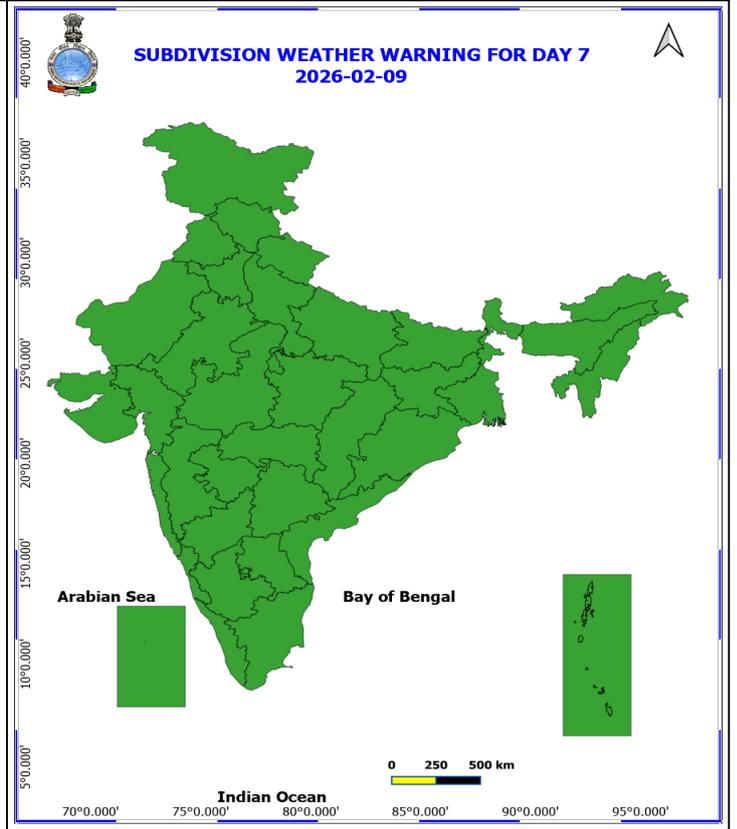
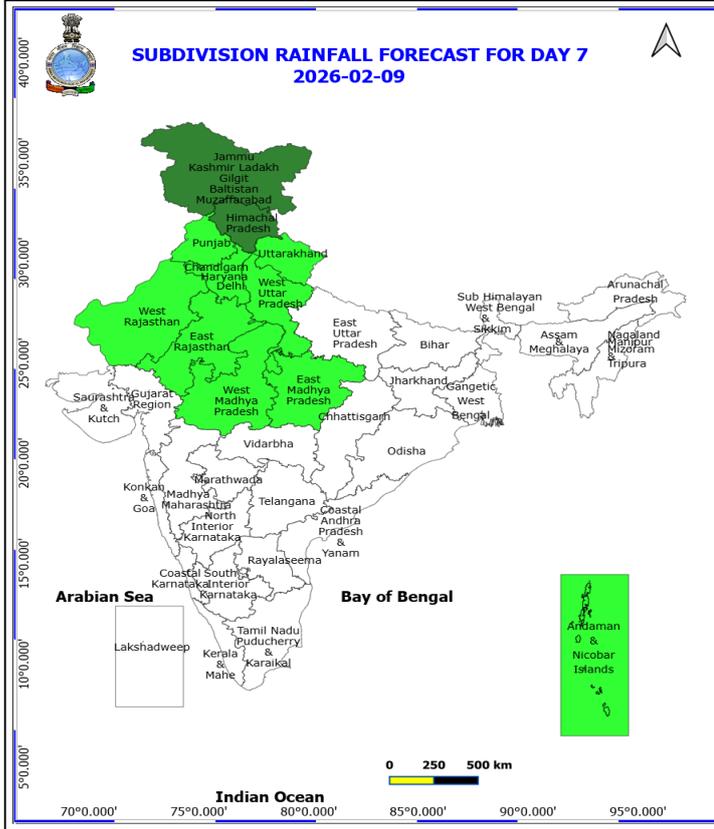
No Fishermen Warning

***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)



9 February (Day 7)

No Warning

No Fishermen Warning



Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	3- Feb	4- Feb	5- Feb	6- Feb	7- Feb	8- Feb	9- Feb
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	ISOL	ISOL	DRY	DRY	DRY	ISOL
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY						
4	N. M. M. & T.	DRY						
5	S.H. WEST BENGAL & SIKKIM	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	SCT	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL
12	UTTARAKHAND	ISOL	DRY	DRY	ISOL	DRY	DRY	ISOL
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
15	HIMACHAL PRADESH	SCT	DRY	DRY	ISOL	DRY	ISOL	SCT
16	JAMMU AND KASHMIR AND LADAKH	FWS	DRY	ISOL	SCT	DRY	ISOL	SCT
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
18	EAST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL
19	WEST MADHYA PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL
20	EAST MADHYA PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL
21	GUJRAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY						
26	VIDARBHA	DRY						
27	CHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH	DRY						
29	TELANGANA	DRY						
30	RAYALASEEMA	DRY						
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
32	COSTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	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 2026-02-02

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

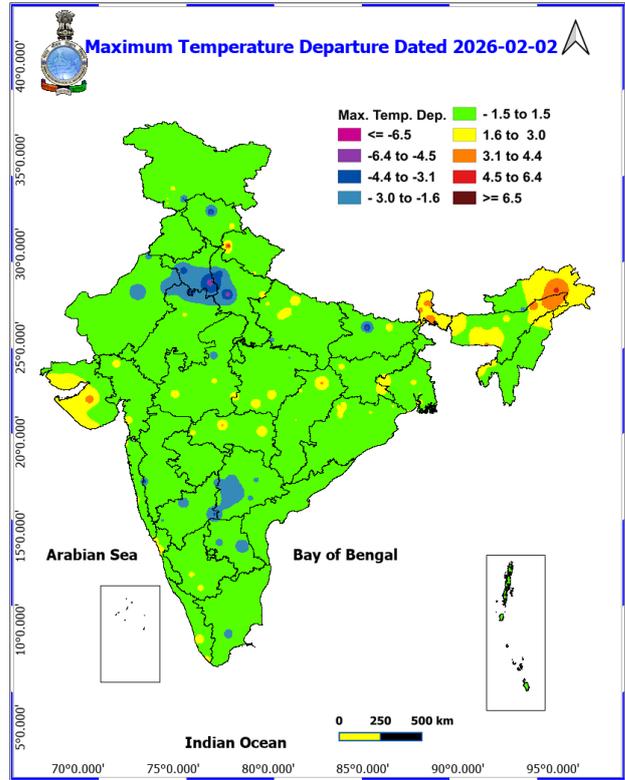
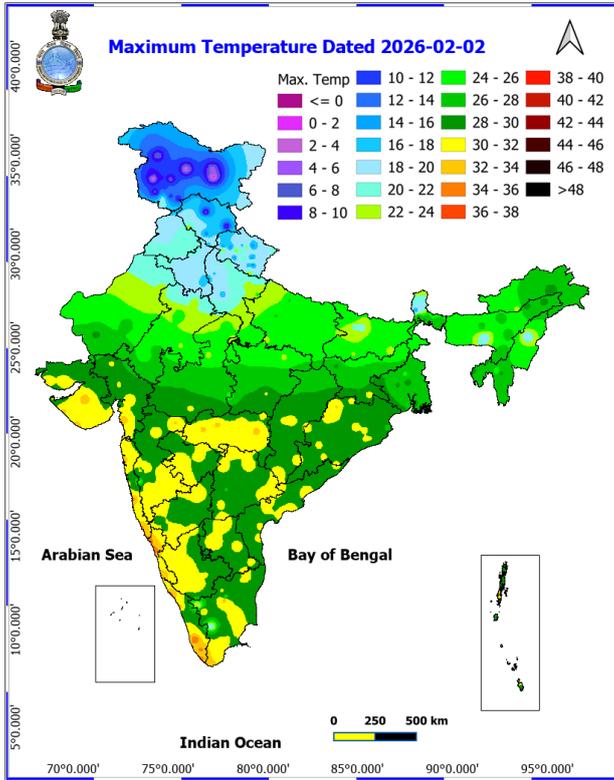
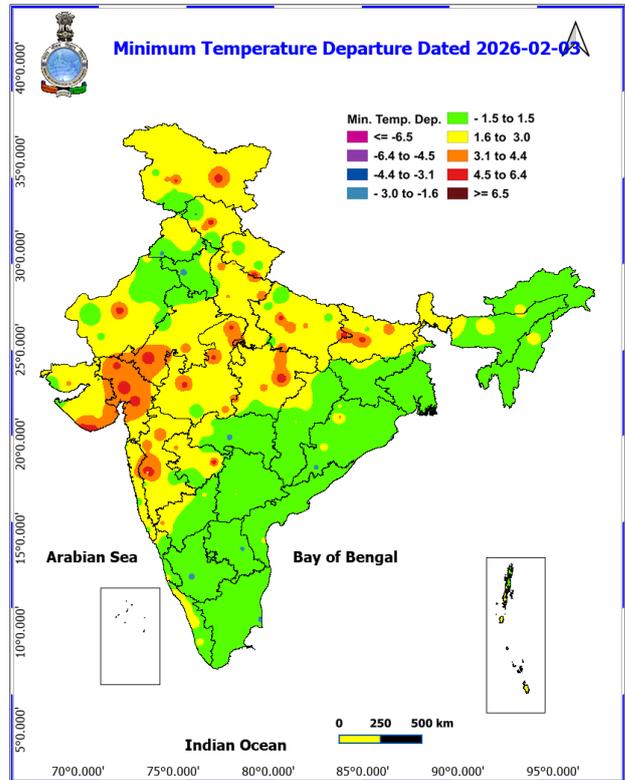
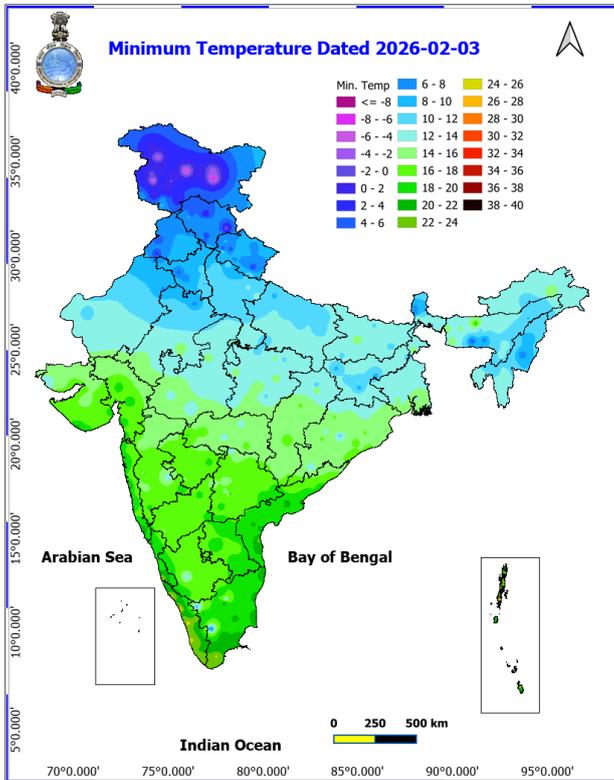
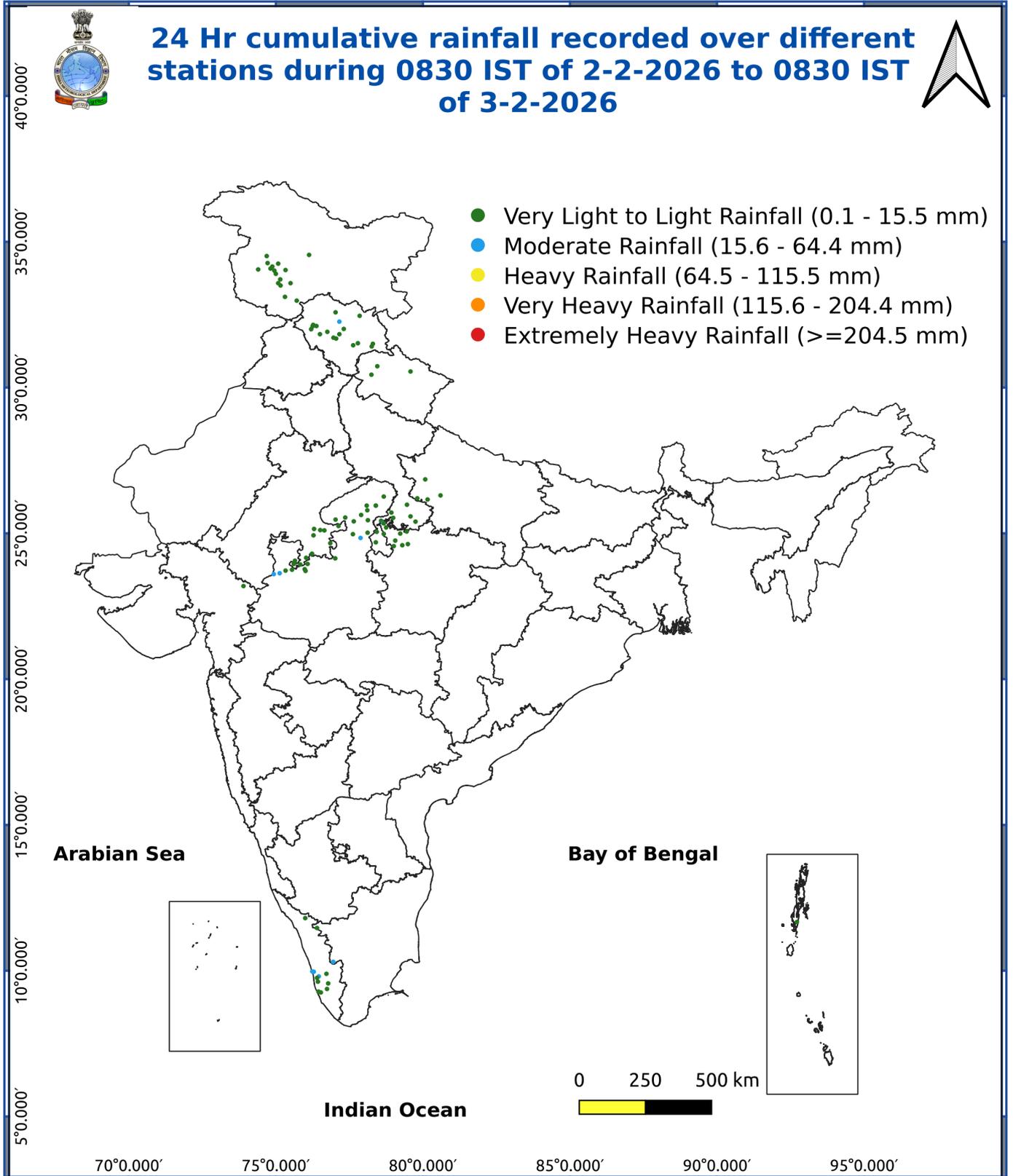


Fig. 3: Minimum Temperatures Dated 2026-02-03

Fig. 4: Departure of Minimum Temp. Dated 2026-02-03





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 Himachal Pradesh, Uttarakhand, plains of northwest India and north Madhya Pradesh till 05th 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

- **Scattered to Fairly widespread** rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 3rd February.
- Isolated to scattered rainfall/snowfall with **thunderstorm, lightning & gusty winds speed reaching (30-40 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 5th & 6th February.
- **Isolated to Scattered to** rainfall/snowfall with **thunderstorm, lightning** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 8th & 9th and isolated to scattered rainfall likely over plains of northwestern and central India on 9th February.
- **Isolated to Scattered** light rainfall with **thunderstorm, lightning** with **gusty winds speed reaching (30-40 gusting to 50 kmph)** likely over Uttar Pradesh on 03rd February 2026.
- **Isolated Hailstorm activity also likely** over East Uttar Pradesh on 03rd 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.

***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)

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.

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 East Uttar 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.

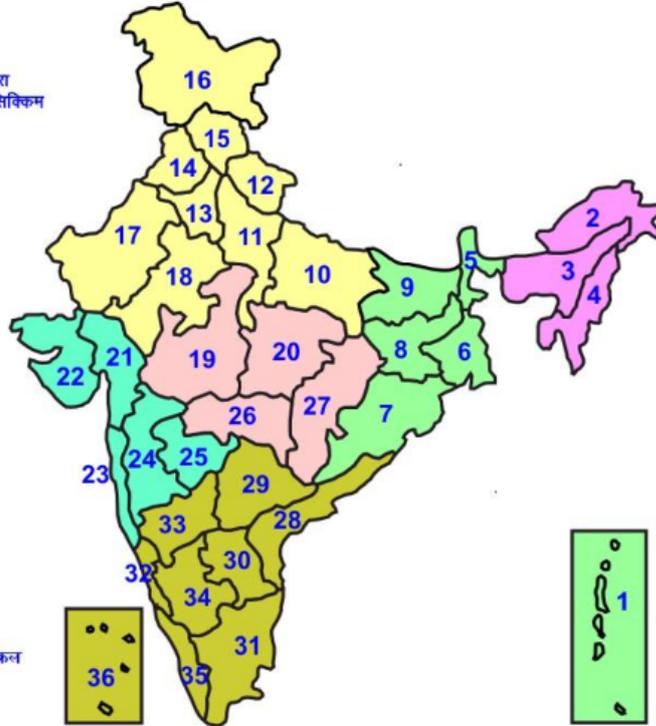
Legends & abbreviations:

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

(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



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"

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)