



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 03rd February 2026

Time of Issue: 1320 hours

Subject: (i) In continuation, three Western Disturbances likely to affect Western Himalayan region during next 07 days.

(ii) light to moderate isolated/scattered rainfall likely over East Rajasthan, Uttar Pradesh and Madhya Pradesh today, the 3rd February, 2026.

(iii) 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.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 03rd February, 2026:

- ❖ **Dense to very Dense fog (visibility <50 m) conditions** prevailed at many places over Punjab, Haryana & Chandigarh; 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** at many parts of Delhi; in isolated pockets over Uttarakhand.
- ❖ **Visibility Reported (In Meters ≤200 m):** **Punjab:** Adampur (10), Ballowal Saunkhri (10m), Bhatinda (<50m), Halwara (100 M); **Haryana, Chandigarh:** Chandigarh Ap(0m), Hisar (30m), Karnal (40m), Ambala (30m), Narnaul (60m), **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:** Ams 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), Delhi: Safdarjung, Palam 100 each.
- ❖ **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, Uttar Pradesh and East Rajasthan.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 30-50 kmph over Himachal Pradesh.
- ❖ **Hailstorm** reported over West Uttar Pradesh.

Temperature Conditions during past 24 hours till 0830 hours IST of today:

- ❖ **Minimum temperatures** were 0-5°C over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh and Uttarakhand 5-10°C over plains of northwest India, Madhya Pradesh, Sikkim, Assam, Meghalaya, Mizoram and Manipur. It was 10°C and above for remaining parts of the country, except higher reaches of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad where it was less than 0°C.
- ❖ **Minimum Temperature Departures** were 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. (refer to ANNEXURE IV)
- ❖ The **lowest minimum temperature** of 3.6°C was observed at Bhatinda (**Punjab**) over the plains of India.

Weather Systems, Forecast and Warnings (refer to ANNEXURE I & II):

- ❖ The **Western Disturbance** seen as a **cyclonic circulation** over north Pakistan & adjoining Punjab in lower tropospheric levels with the trough in middle tropospheric level roughly along Long. 70°E to the north of Lat. 25°N.
- ❖ An **induced cyclonic circulation** lies over northeast Punjab & neighbourhood in lower tropospheric level.

- ❖ Thereafter, two fresh **western disturbances** is likely to affect western Himalayan region, 1st from the night of 05th February and 2nd from the night of 8th February 2026.
- ❖ A **cyclonic circulation** lies over Lakshadweep & adjoining southeast Arabian sea in lower tropospheric level.
- ❖ A **trough** runs from south Kerala to off Karnataka coast in lower tropospheric 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.

Under the influence of above system, the following weather is likely:

- ❖ 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.

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.

Weather conditions and forecast over Delhi/NCR during 03rd -06th February, 2026 (ANNEXURE III) For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

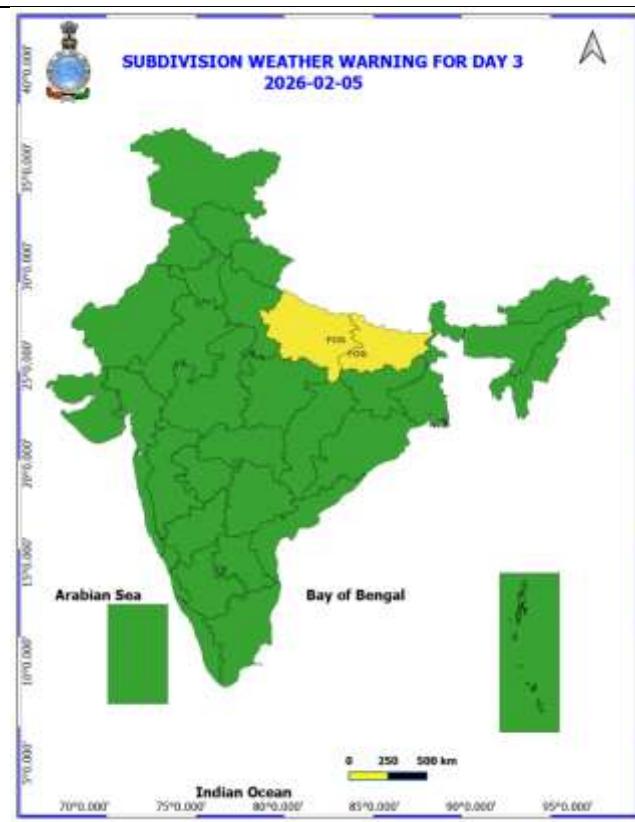
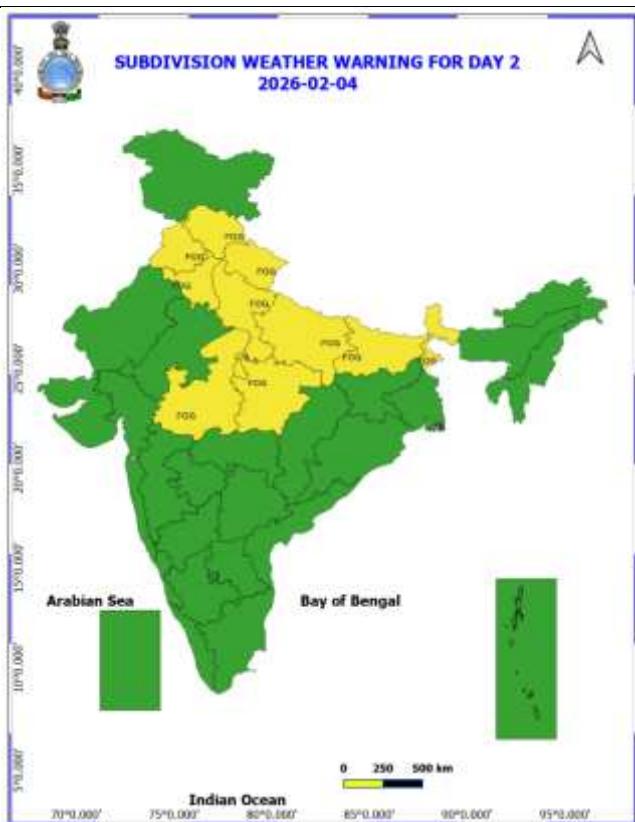
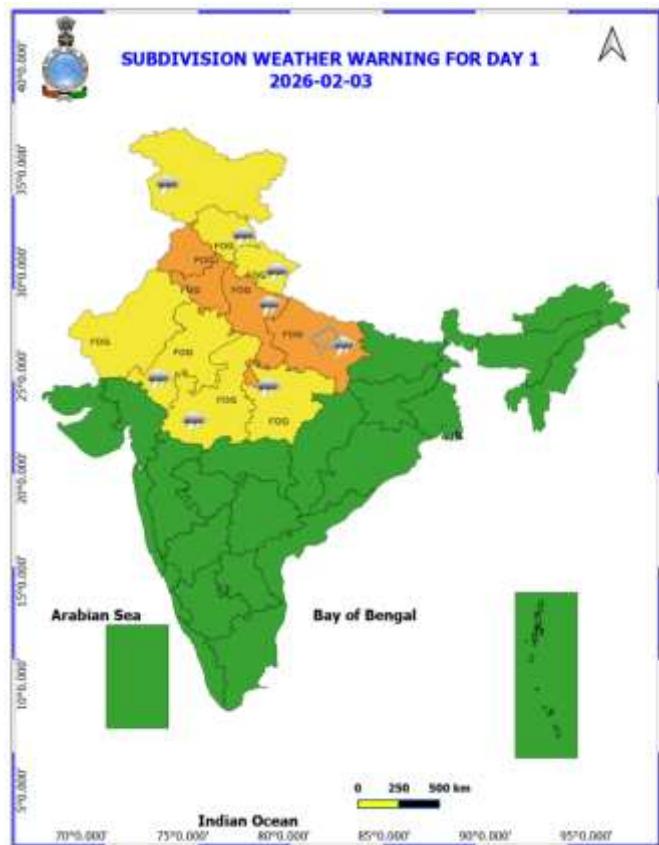
For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php>

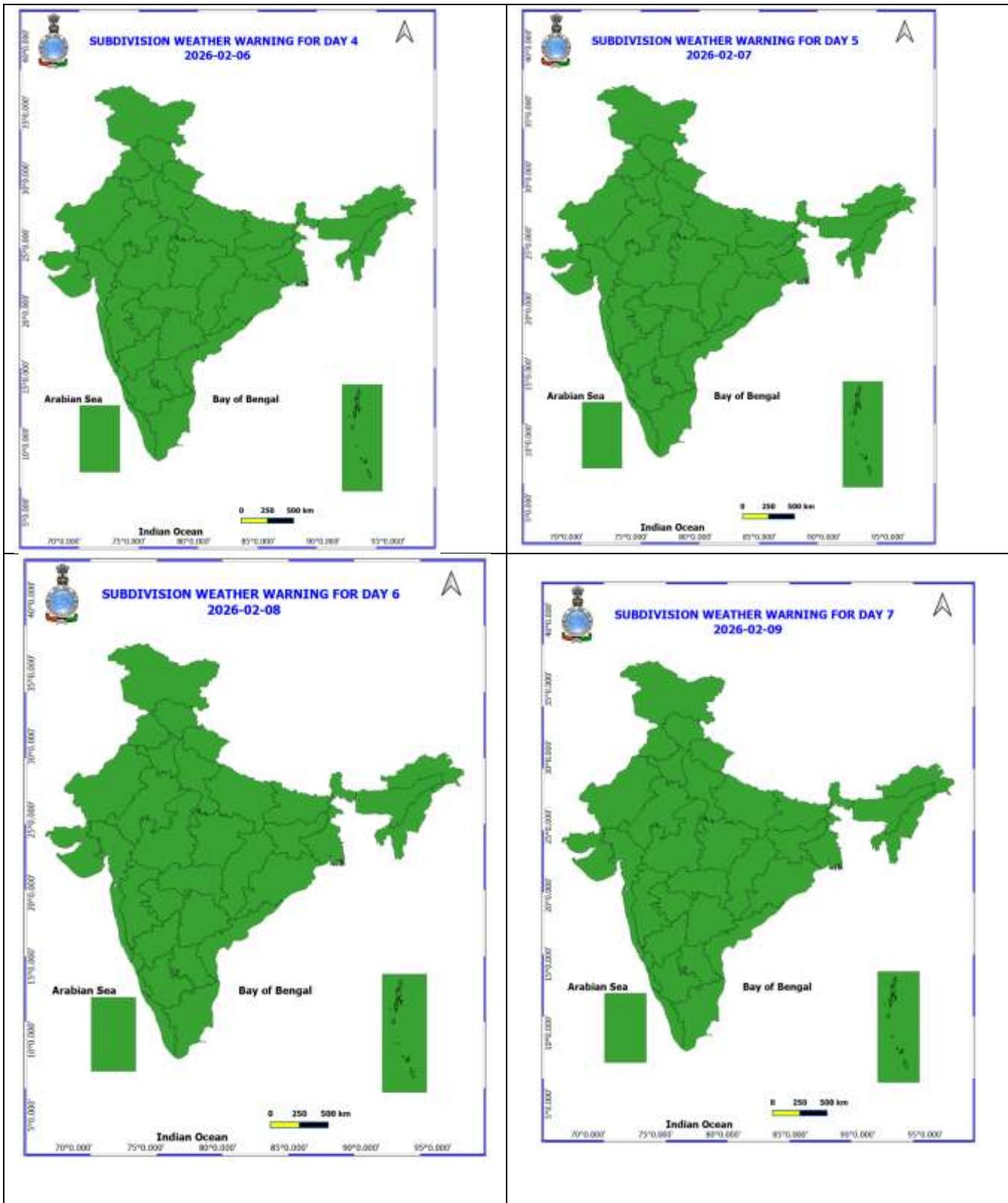
Table-1

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	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	DRY						
5	SUB HIMALAYAN 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, CHANDIGARH & 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	CHHATTISGARH	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 AND MAHE	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
36	LAKSHADWEEP	SCT	DRY	DRY	DRY	DRY	DRY	DRY

- As the lead period increases forecast accuracy decrease.





- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Detailed district wise Multi Hazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 03rd to 06th February 2026

Past Weather:

There has been fall in the minimum temperature upto 1-2°C and markedly fall in the maximum temperature upto 5°C - 7°C during the past 24 hours over Delhi. The maximum temperatures over Delhi were around 17°C to 18°C and the minimum temperatures are around 09°C-11°C respectively. The minimum temperatures are above normal (1.6°C to 3.0°C) at isolated places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi. The maximum temperatures were markedly below normal (-5.1°C or less) at many places and appreciably below normal (-3.1°C to -5.0°C) over remaining parts of Delhi. Safdarjung Airport reported lowest visibility 50m from 0330 IST to 0630 IST, which thereafter improved to 100m from 0730 IST of today, 03-02-2026. Palam Airport reported lowest visibility 100m from 1200 IST of 02-02-2016 to 0930 IST, which thereafter improved to 200m from 1000 IST of today, 03-02-2026. Partly cloudy sky conditions. The winds speed reaching upto 13 kmph from the west direction prevailed over past 24 hours. Partly cloudy sky. Dense to moderate fog at many places till forenoon. The wind speed reaching upto 10 kmph from the southwest direction to be prevailed over the region in the forenoon today.

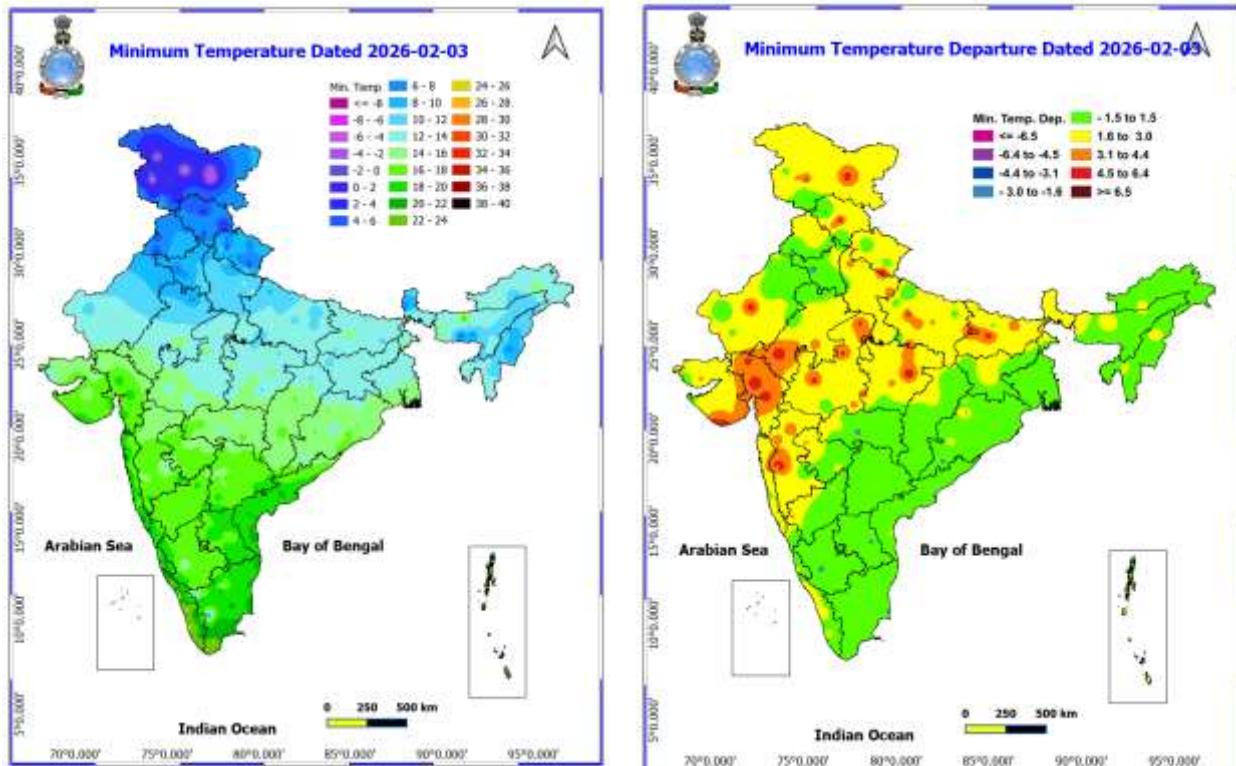
Weather Forecast:

03.02.2026: Partly cloudy sky. Mist/shallow fog during night. The maximum temperatures are likely to be in the range of 20°C to 22°C. The maximum temperatures will below normal (-1.6 to -3.0°C) over Delhi. The predominant surface wind is likely to be from the northwest direction reaching up to 10 kmph during the afternoon hours. The wind speed will decrease becoming less than 06 kmph from the north direction during evening and night.

04.02.2026: Partly cloudy sky. Moderate fog at many places with dense fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 21°C to 23°C and 08°C to 10°C respectively. The minimum temperature will near normal and the maximum temperatures will near normal over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 10 kmph during the morning hours. The wind speed will increase becoming upto 15 kmph from northwest direction during the afternoon. The wind speed will decrease becoming upto 12 kmph from the northwest direction during evening and night.

05.02.2026: Partly cloudy sky. Shallow fog at many places with moderate fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 21°C to 23°C and 08°C to 10°C respectively. The minimum temperature will near normal and the maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 12 kmph during the morning hours. The wind speed will increase becoming upto 16 kmph from northwest direction during the afternoon. The wind speed will decrease becoming upto 12 kmph from the northwest direction during evening and night.

06.02.2026: Partly cloudy sky. Strong surface winds speed reaching upto 20 - 30kmph during the day. Shallow fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 22°C to 24°C and 09°C to 11°C respectively. The minimum temperature will be near normal and the maximum temperatures will near normal over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed upto 18 kmph during the morning hours. The wind speed will increase upto 25 kmph from northwest direction in the afternoon. The wind speed will decrease becoming upto 18 kmph from the northwest direction during evening and night.



Reported minimum temperature over the plains ($\leq 8^{\circ}\text{C}$) at 0830 hrs IST of the 03rd February 2026.

NAME	STATE	MINIMUM TEMPERATURE ($^{\circ}\text{C}$)
BHATINDA	PUNJAB	3.6
CHURU	RAJASTHAN	7.4
AMRITSAR	PUNJAB	7.7
LUDHIANA	PUNJAB	8.6
PATIALA	PUNJAB	8.6
PALAM	DELHI	8.6
ROHTAK	HARYANA	8.8
SABAUR	BIHAR	8.8
KARNAL	HARYANA	9.1
GANGANAGAR	RAJASTHAN	9.1
AMBALA	HARYANA	9.3
SAFDARJUNG	DELHI	9.4
CHANDIGARH	CHANDIGARH	9.8

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

- ❖ **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.

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 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.

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:

- ❖ **Heavy Rain:** 64.5-115.5mm; **Very Heavy Rain:** 115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- ❖ **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 द्वीपसमूह

2. अरुणाचल प्रदेश

3. असम और मेघालय

4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल

7. ओडिशा

8. झारखण्ड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखण्ड

13. हरियाणा, चंडीगढ़ और दिल्ली

14. पंजाब

15. हिमाचल प्रदेश

16. जम्मू और कश्मीर और लद्दाख

17. पश्चिम राजस्थान

18. पूर्वी राजस्थान

19. पश्चिम मध्य प्रदेश

20. पूर्वी मध्य प्रदेश

21. गुजरात

22. सौराष्ट्र

23. कोकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुदुचेरी और कराईकल

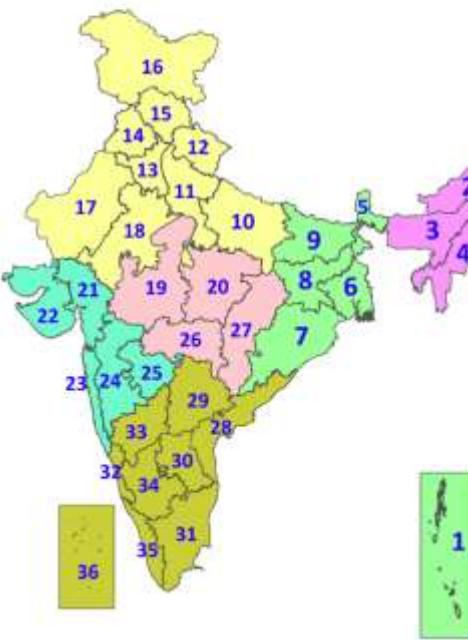
32. तटीय कर्नाटक

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

35. केरल और 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. Odisha

8. Jharkhand

9. Bihar

10. East Uttar Pradesh

11. West Uttar Pradesh

12. Uttarakhand

13. Haryana, Chandigarh & 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. Marathwada

26. Vidarbha

27. Chhattisgarh

28. Coastal Andhra Pradesh & Yanam

29. Telangana

30. Rayalaseema

31. Tamilnadu, Puducherry & Karaikal

32. Coastal Karnataka

33. North Interior Karnataka

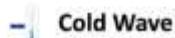
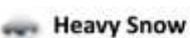
34. South Interior Karnataka

35. Kerala & Mahe

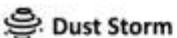
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

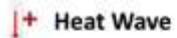
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)		
51-75	Fairly Widespread (FWS/Many Places)		
26-50	Scattered (SCT/A Few Places)		
1-25	Isolated (ISOL)		



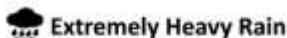
COLOUR CODED WARNING



No Warning (No Action)



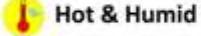
Watch (Be Aware)



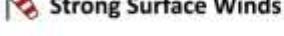
Alert (Be Prepared To Take Action)



Warning (Take Action)



Probabilistic Forecast



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

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

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DEFINITION/CRITERIA

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 *

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 $\geq 6.5^{\circ}\text{C}$

Heat Wave

(b). Based on Actual maximum temperature

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

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

(c). Criteria for heat wave for coastal stations

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

Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

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

Cold Wave

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

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°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 $\leq 15^{\circ}\text{C}$

Cold Day

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

Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

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

Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres

Thunderstorm

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

Dust/Sand Storm

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

Frost

Ice deposits on ground

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

Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed >87 kmph

Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre

Cyclone

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

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 - 119 knots)

Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

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