



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 03rd February, 2025

Time of Issue: 1315 hours IST

Subject: (i) Wet Spell likely over Western Himalayan Region and adjoining plains of Northwest India till 05th February, 2025.

(ii) Dense fog very likely to continue over Northwest India during next 24 hours and reduce in intensity thereafter.

i. Realised weather during past 24 hours till 0830 hours IST of today (Annexure I)

- ❖ **Dense to very dense fog conditions (visibility < 50 m)** reported in isolated pockets of Punjab, Haryana, West Uttar Pradesh, Assam & Meghalaya, South Interior Karnataka. and **dense fog (visibility 50-199 m)** reported in isolated pockets of East Uttar Pradesh, West Bengal & Sikkim, Odisha.
- ❖ **Ground Frost conditions** reported in isolated pockets of Uttarakhand.

ii. Weather Systems, Forecast and warning (Annexure II & III):

- ❖ A Western Disturbance is seen as a cyclonic circulation over West Afghanistan & adjoining Iran in lower & middle tropospheric levels and another fresh Western Disturbance is likely to affect Northwest India from 08th February, 2025.
- ❖ Under the influence of the first system,
 - ✓ Scattered to Fairly widespread light to moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Western Himalayan Region; and light rainfall likely over adjoining plains of Northwest India during 03rd – 05th February, 2025.
- ❖ Under the influence of the second system,
 - ✓ Isolated to scattered light rainfall/snowfall activity likely over Western Himalayan Region on 08th & 09th February, 2025.

Temperature and Fog Forecast:

(Temperature Conditions during past 24 hours till 0830 hours IST of today is provided in **Annexure IV**)

Forecast of temperature:

- ❖ Gradual rise in minimum temperatures by 2-3°C likely over Northwest India during next 2 days and gradual fall by 2-3°C during subsequent 3 days.
- ❖ No significant change in minimum temperatures likely over West India during next 24 hours and fall by 2-4°C during subsequent 3 days.
- ❖ No significant change in minimum temperatures likely over Central India during next 2 days and fall by 2-3°C thereafter.

Dense Fog Warnings:

- ❖ **Dense fog conditions** very likely to continue to prevail during night/early morning hours in isolated pockets of Punjab, Haryana, West Uttar Pradesh, Bihar till 04th; Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura till 05th and over Odisha till 06th February.

iii. Weather conditions and forecast over Delhi/NCR during 03rd Feb. to 06th Feb. 2025 (Annexure V)

For more details, kindly refer National Weather Bulletin:

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

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

Rainfall recorded during past 24 hours till 0830 hours IST of today 03.02.2025 (in cm):

- ❖ **Jammu-Kashmir:** Kulgam (dist Kulgam) 1.

Visibility reported (≤ 200 m) (in meter):

- ❖ **South Interior Karnataka:** Bangalore 0; **West Uttar Pradesh:** Aligarh 30; **Meghalaya:** Barapani 30; **Punjab:** Bathinda, Ballowal Saunkri 20 each, Patiala, Faridkot 40 each, Gurdaspur 80, Amritsar 100; **Haryana:** Chandigarh, Hissar 40; **Sub-Himalayan West Bengal & Sikkim:** Pakyong 50; **Gangetic West Bengal:** Dum-Dum 50; **East Uttar Pradesh:** Kushinagar 100; **Odisha:** Bhubaneshwar 150.

Impact expected due to dense fog in the night /morning hours over Northwest, East and Northeast India:

- ❖ 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.

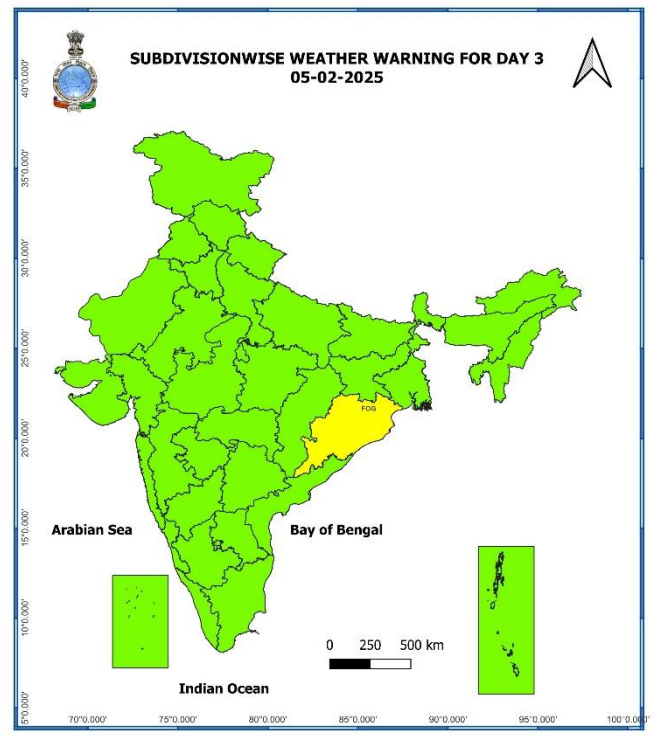
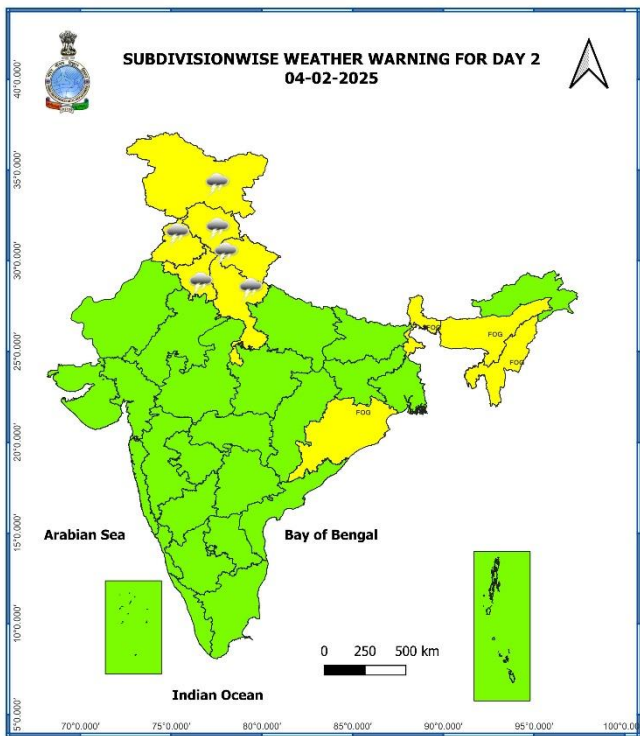
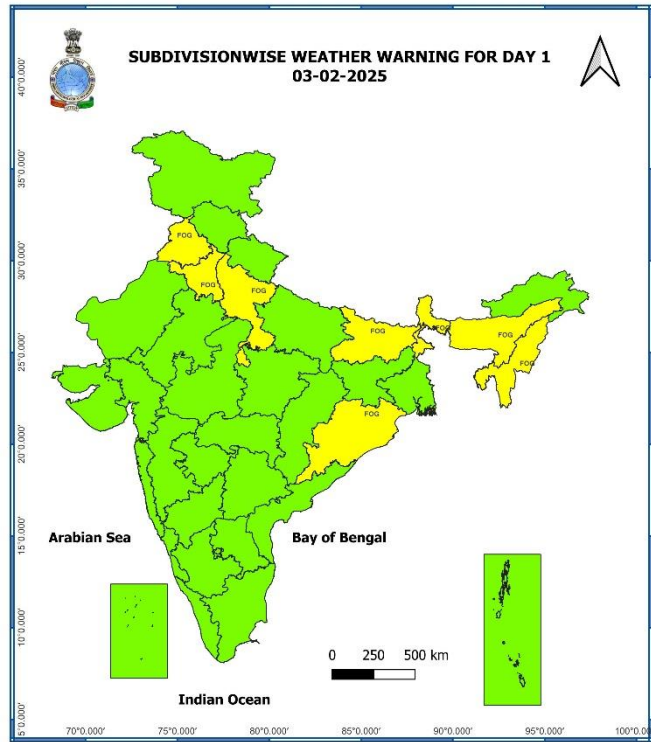
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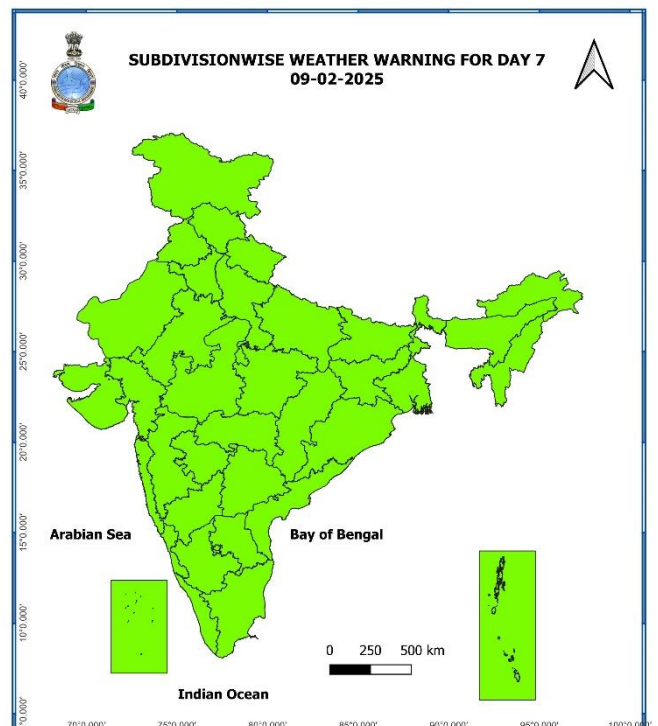
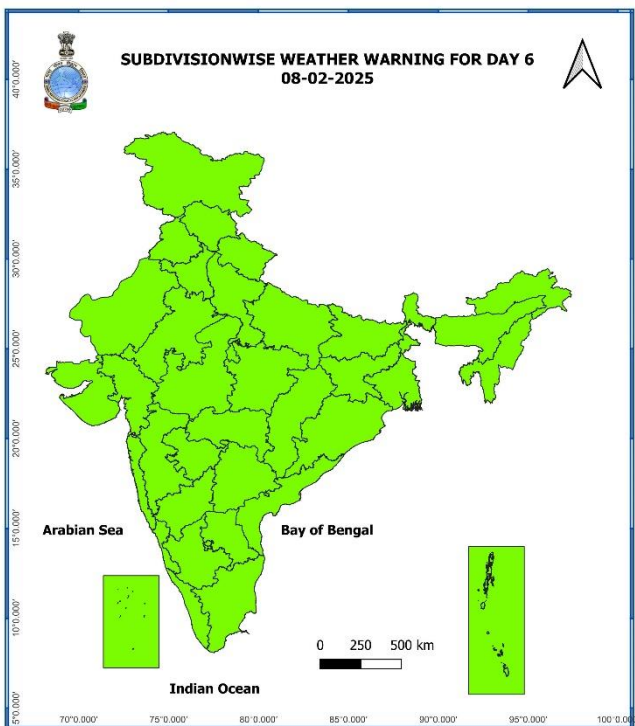
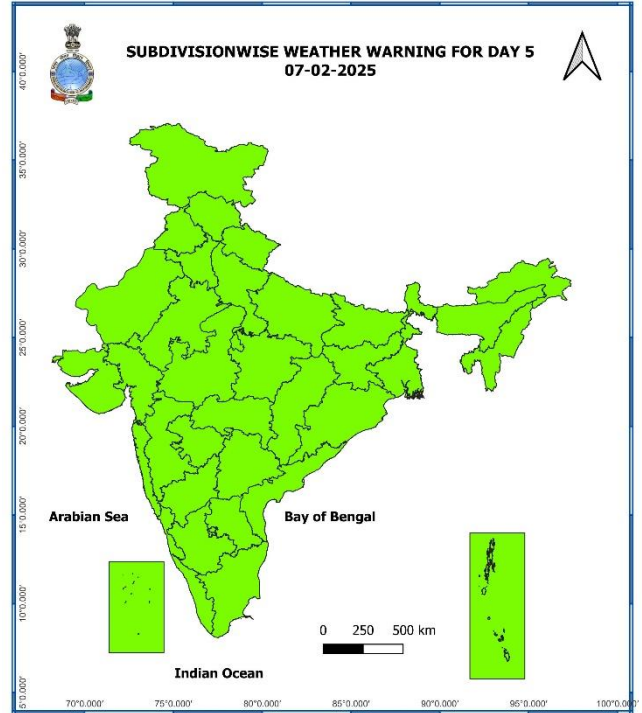
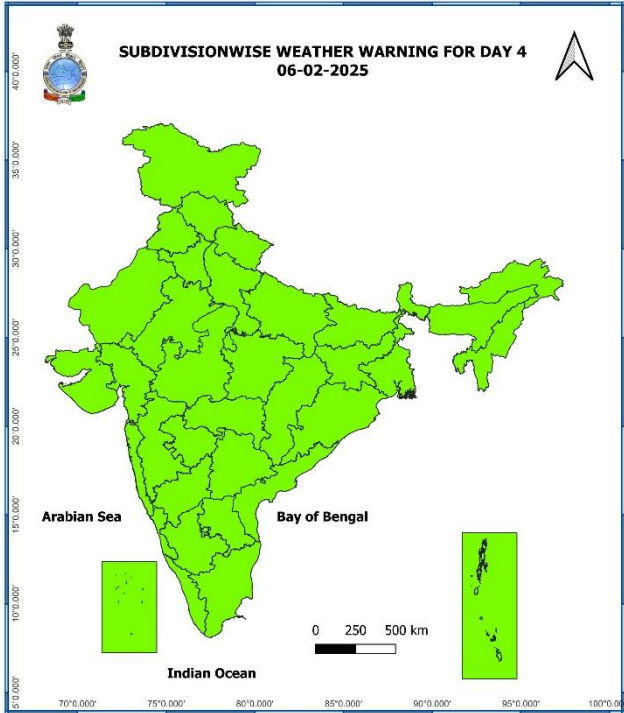
- ❖ Transport and Aviation:
 - Be careful while driving or outing through any transport.
 - Use fog lights during driving.
 - Be in touch with airlines, railways and state transport for schedule of your journey.
- ❖ Power Sector:
 - To keep ready Maintenance Team.
- Human Health: To avoid outing until unless emergency and to cover the face.

7 Days Rainfall Forecast

S. No.	Subdivision	03-Feb	04-Feb	05-Feb	06-Feb	07-Feb	08-Feb	09-Feb
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	DRY	DRY	ISOL	SCT	SCT	ISOL	ISOL
3	ASSAM & MEGHALAYA	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	FWS	ISOL	DRY	DRY	DRY	ISOL
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	SCT	ISOL	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	FWS	ISOL	DRY	DRY	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	ISOL	FWS	SCT	DRY	DRY	SCT	SCT
17	WEST RAJASTHAN	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJARAT 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	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	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 & KARAIKAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
32	COASTAL 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 & MAHE	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
36	LAKSHADWEEP	SCT	DRY	DRY	DRY	DRY	DRY	DRY

- As the lead period increases forecast accuracy decreases





- 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 warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

- ❖ Minimum temperatures are in the range of **6-13°C** in some parts over plains of Northwest India; **13-20°C** over Central, East & West India. Today, the lowest minimum temperature of **4.0°C** is reported at **Ganganagar (West Rajasthan)** over the plains of the country.
- ❖ During the past 24 hours, **minimum temperatures has fallen by 0-2°C** at some places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Gangetic West Bengal, West Uttar Pradesh and parts of south Peninsular India and **rise by 0-2°C** in many parts of West Madhya Pradesh, Gujarat Region, Maharashtra; at some places over East Uttar Pradesh, Assam & Meghalaya and Odisha.
- ❖ Minimum temperatures are **markedly above normal (5°C or above)** at isolated places over West Madhya Pradesh, Madhya Maharashtra and Gangetic West Bengal; **appreciably above normal (3°C to 5°C)** at a few places over Chhattisgarh, Marathwada and Vidarbha; at isolated places over Bihar, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, East Madhya Pradesh and Konkan & Goa; **above normal (1°C to 3°C)** at most places over Sub-Himalayan West Bengal & Sikkim; at many places over East Rajasthan, East Uttar Pradesh, Arunachal Pradesh and Assam & Meghalaya; at a few places over Saurashtra & Kutch; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, North Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They are **below normal (-1°C to -3°C)** at isolated places over Rayalaseema and near normal over rest parts of the country.

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

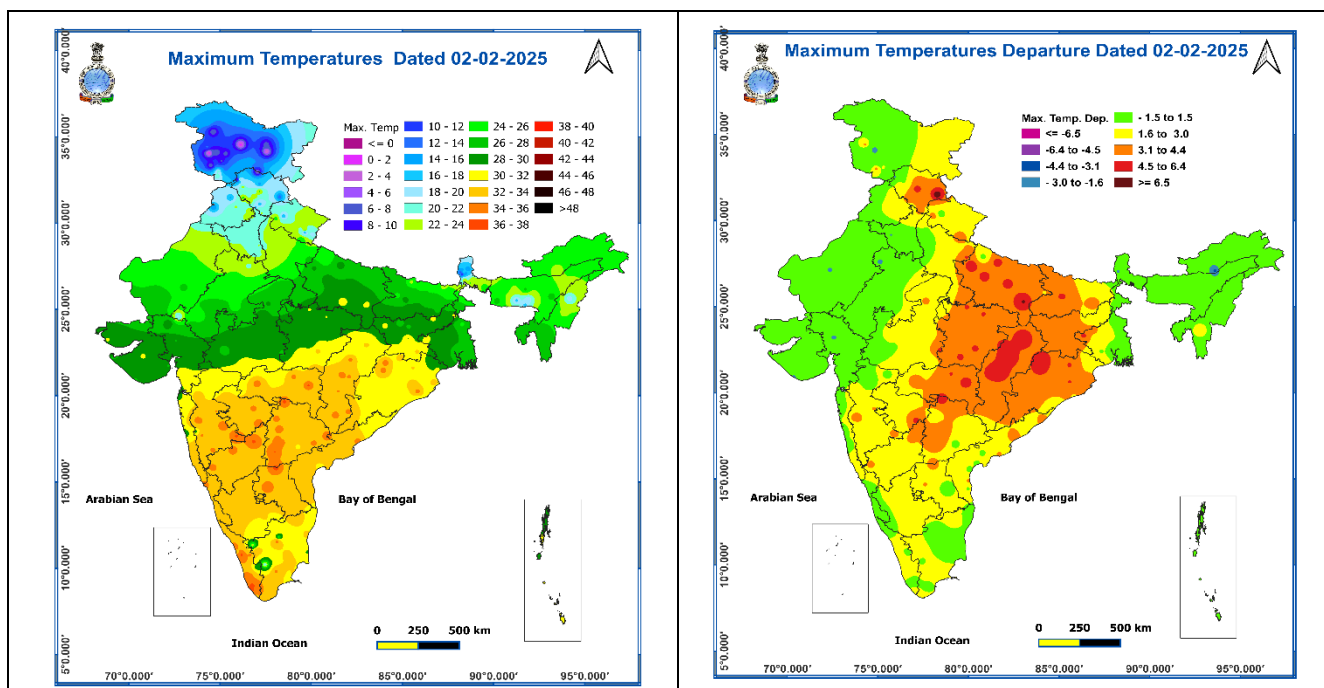
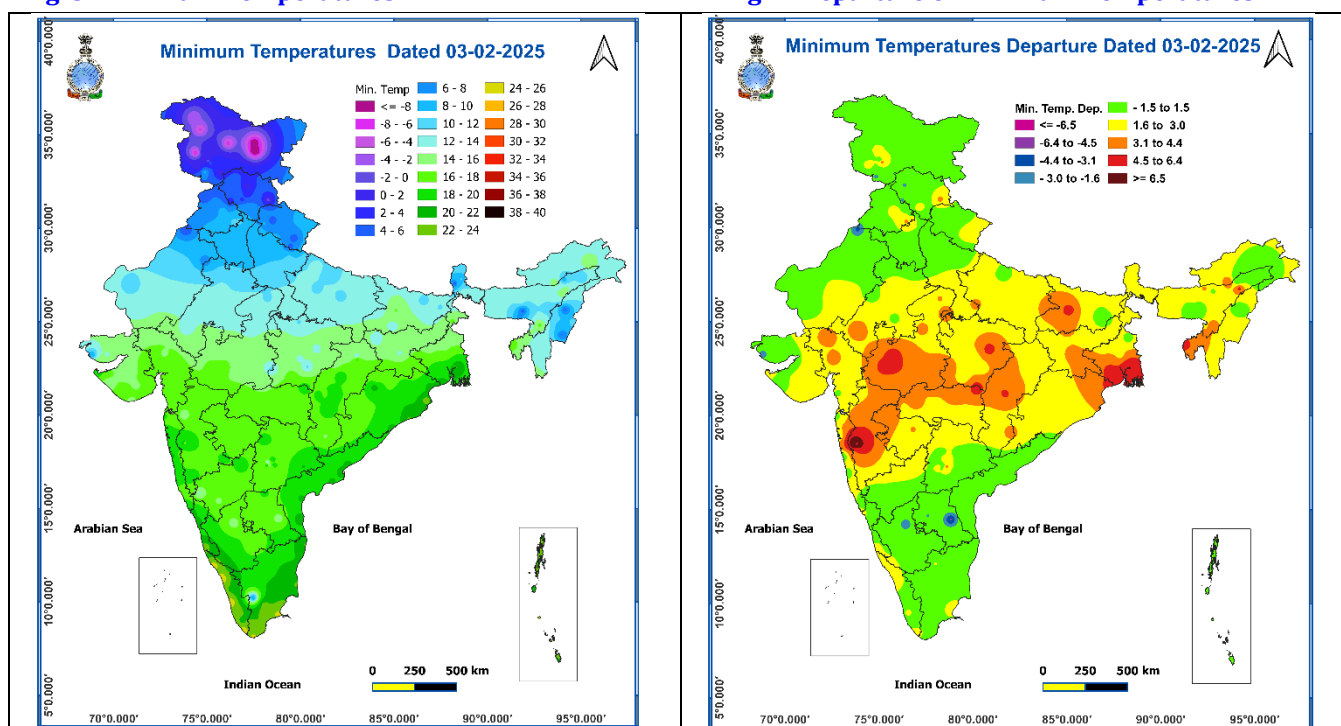


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



Weather forecast over Delhi/NCR during 03rd Feb. to 06th Feb. 2025

Past Weather:

There has been a fall in minimum temperatures upto 01 °C over Delhi/NCR during the past 24 hours. The Maximum and Minimum temperatures over Delhi are in the range of 20 to 22°C and 9 to 10°C respectively. The minimum and maximum temperatures were near normal over most places. Dense fog was reported at Safdarjung and Palam airport. Safdarjung airport recorded the lowest visibility 50m at 0630 hours IST which improved thereafter becoming 150 m at 0700 hours. Palam airport recorded the lowest visibility 50 m from 0430 hours to 0530 hours IST which improved thereafter becoming 100 m at 0600 hours IST. Mainly smog/mist conditions with predominant surface wind from the west direction with wind speed reaching 10 to 12 kmph prevailed during the past 24 hours. Mainly Smog/mist conditions with wind speed less than 08 kmph west direction prevailed over the region in the forenoon today.

Weather Forecast:

03.02.2025: Mainly clear sky becoming partly cloudy sky from evening. Possibility of a spell of very light to light rain/drizzle during night. The predominant surface wind will likely be in the northwest direction with a wind speed of less than 08 kmph till evening. It would decrease thereafter becoming less than 06 kmph from the southeast direction during the night. Smog/mist is likely in the night.

04.02.2025: Generally cloudy sky becoming partly cloudy sky towards evening. Possibility of one or two spells of very light to light rain with thunderstorm upto forenoon. The predominant surface wind is likely to be from the southeast direction with a wind speed less than 08 kmph during morning hours. Shallow fog likely in the morning. The wind speed will gradually increase thereafter becoming 10-12 kmph from the southeast direction during the afternoon. It will decrease further becoming less than 06 kmph from the southeast direction during evening and night. Smog/mist is likely in the night.

05.02.2025: Mainly clear sky. The predominant surface wind will likely to be from the southeast direction with a wind speed of less than 06 kmph during morning hours. Smog/ moderate fog in most places is very likely to commence during the early morning hours with dense fog in isolated places during the morning hours. The wind speed will gradually increase thereafter becoming 10-12 kmph from the northwest direction during the afternoon. It will decrease becoming less than 08 kmph from northwest direction during evening and night.

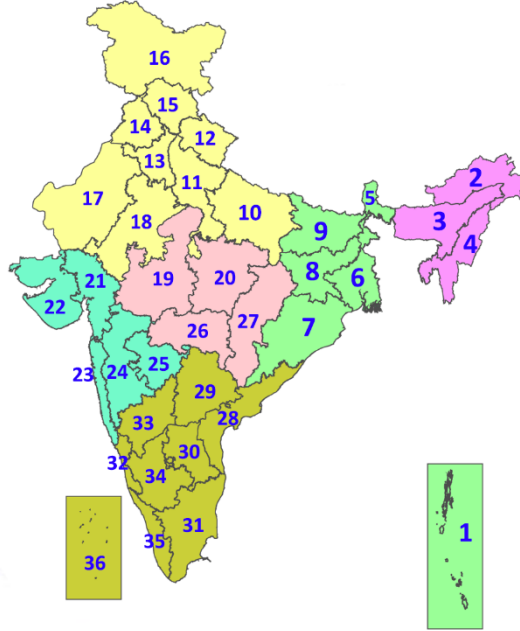
06.02.2025: Mainly clear sky. The predominant surface wind will likely to be from northwest direction with a wind speed of less than 10 kmph during morning hours. Smog/ moderate fog likely in the morning. The wind speed will gradually increase thereafter becoming 12-14 kmph from the northwest direction during the afternoon. It will increase becoming less than 10 kmph from northwest direction during evening and night.

Legends & abbreviations:

- ❖ **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** 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. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
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. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक 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)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)

- | | | |
|----------------------|----------------------|--------------|
| Fog | Heavy Snow | Cold Wave |
| Heavy Rain | Dust Storm | Cold Day |
| Very Heavy Rain | Heat Wave | Ground Frost |
| Extremely Heavy Rain | Warm Night | |
| Thunder & Lightning | Hot Day | |
| Hailstorm | Hot & Humid | |
| Dust Raising Winds | Strong Surface Winds | |

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".
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)

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 *

Heat Wave

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 $\geq 37^\circ\text{C}$

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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