



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 05th February, 2025

Time of Issue: 1300 hours IST

Subject: A fresh wet spell likely over Western Himalayan Region during 08th -11th February.

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 Meghalaya and **dense fog (visibility 50-199 m)** reported in some pockets of coastal Odisha.
- ❖ **Light rainfall/snowfall** occurred at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- ❖ **Hailstorm** reported at isolated places over Himachal Pradesh.
- ❖ **Very light to light rainfall** occurred at a few places over Uttarakhand; at isolated places over Haryana Chandigarh & Delhi, Punjab, West Uttar Pradesh and East Rajasthan.

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

- ❖ A **Western Disturbance** as a trough in lower & middle tropospheric levels roughly along Long. 70°E to the north of Lat. 25°. Under its influence,
 - ✓ Isolated to Scattered light to moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Western Himalayan Region on 05th February, 2025.
- ❖ Two **cyclonic circulations** lie over (a) north Bangladesh and (b) northeast Assam in lower tropospheric levels. Under their influence,
 - ✓ Scattered to Fairly Widespread light to moderate rainfall accompanied with thunderstorm & lightning likely over Arunachal Pradesh and northeast Assam on 06th & 07th February with isolated **heavy rainfall** likely over Arunachal Pradesh on 07th February.
- ❖ Another **fresh Western Disturbance** is likely to affect Western Himalayan Region from 08th February, 2025. Under its influence,
 - ✓ Isolated to scattered light rainfall/snowfall activity likely over Western Himalayan Region during 08th-11th 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 fall in minimum temperatures by 2-3°C likely over Northwest and Central India during next 2-3 days and no significant change thereafter.
- ❖ Gradual rise in minimum temperatures by 2-3°C likely over East India during next 24 hours and fall by 3-4°C likely thereafter.
- ❖ No significant change in minimum temperatures likely over Maharashtra during next 24 hours and Gradual rise by 2-3°C thereafter.
- ❖ Gradual rise in minimum temperatures by 2-3°C likely over Gujarat state during next 3 days and no significant change thereafter
- ❖ Gradual rise by 2°C in maximum temperatures likely over West India during next 5 days.
- ❖ Maximum temperatures are likely to be above normal by 3-5°C over Central, East & South India during next 4-5 days.

Dense Fog Warnings:

- ❖ **Dense fog conditions** very likely to continue to prevail during early morning hours in isolated pockets of West Bengal & Sikkim on 05th, Odisha and Himachal Pradesh during 05th-07th February.

Cold Wave Warnings:

- ❖ **Cold Wave conditions** very likely in isolated pockets of Himachal Pradesh and north Rajasthan on 05th & 06th February.

iii. Weather conditions and forecast over Delhi/NCR during 05th Feb. to 08th 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>

ANNEXURE I

Significant rainfall recorded during past 24 hours till 0830 hours IST of today 05.02.2025 (in cm):

- ❖ **Jammu-Kashmir:** Batote-2; **Uttarakhand:** Ukhimath-1.

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

- ❖ **Meghalaya:** Barapani -25; **Odisha:** Bhubaneswar -150, Balasore -(50-199).

Impact expected due to dense fog in the night /morning hours over Himachal Pradesh, West Bengal & Sikkim and Odisha:

- ❖ 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.

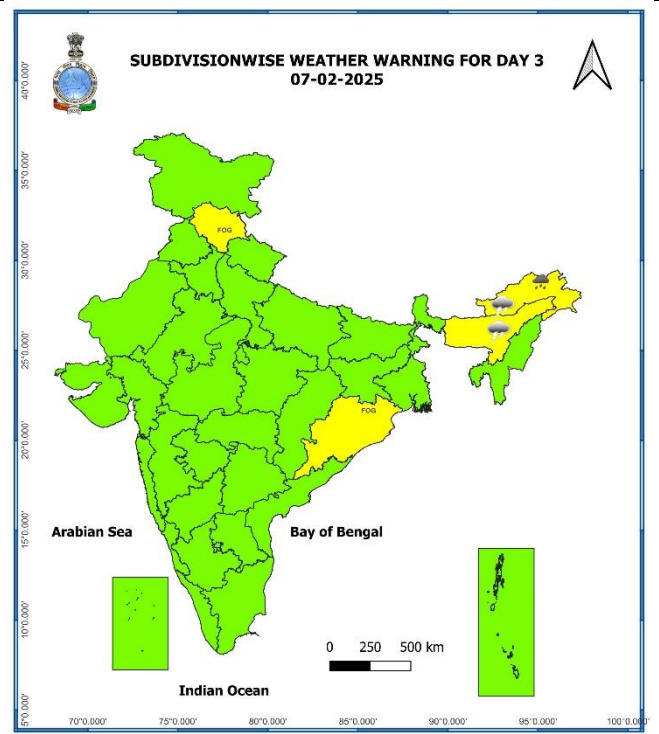
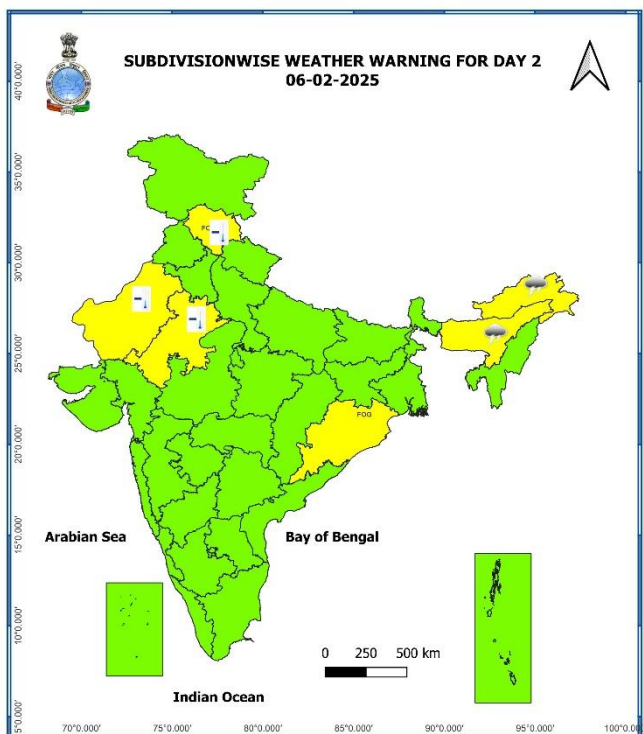
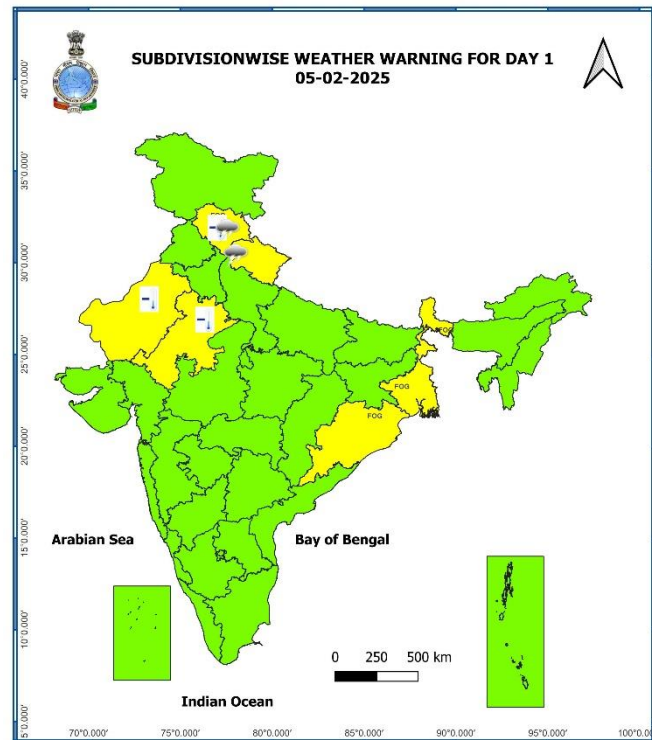
Action suggested:

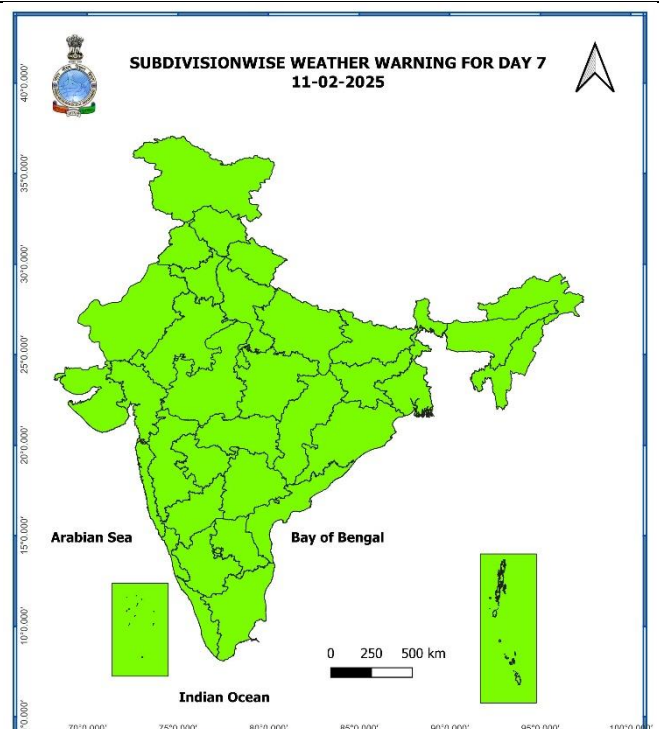
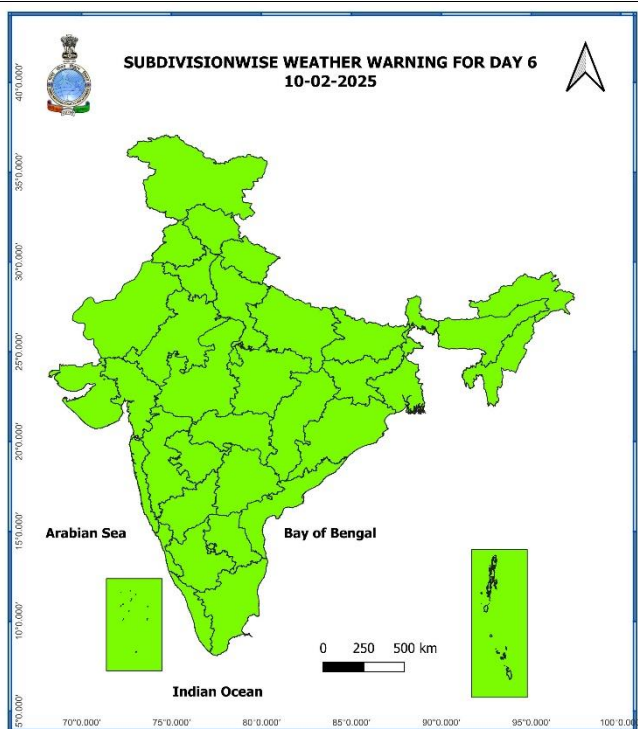
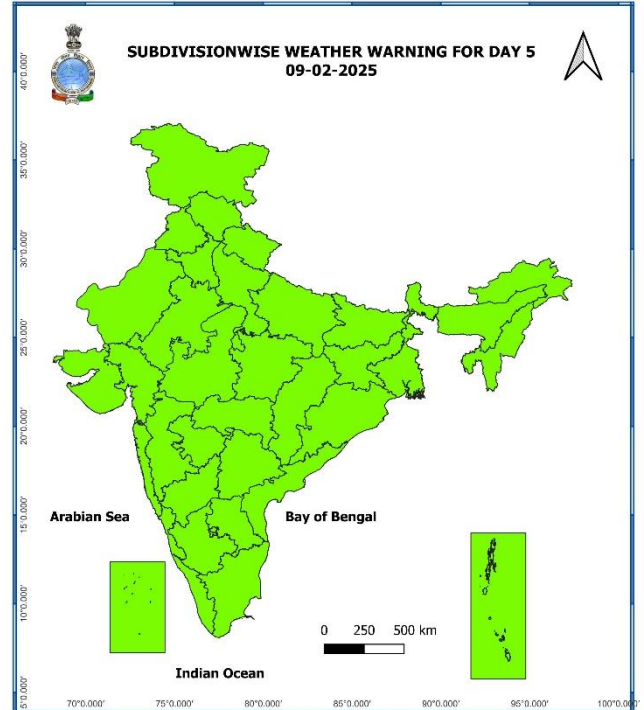
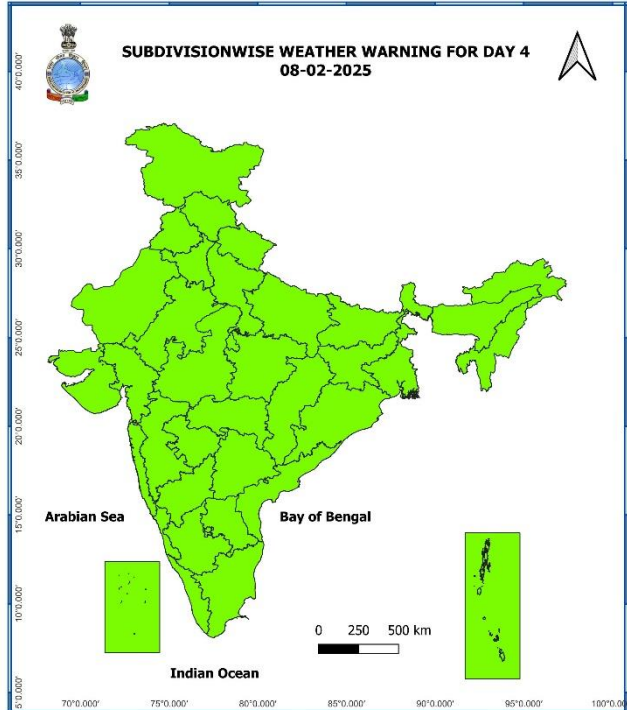
- ❖ Transport and Aviation:
 - Be careful while driving or outing through any transport.
 - Use fog lights during driving.
 - Be in touch with airlines, railways and state transport for schedule of your journey.
- ❖ Power Sector:
 - To keep ready Maintenance Team.
- Human Health: To avoid outing until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

ANNEXURE II

7 Days Rainfall Forecast								
S. No.	Subdivision	05-Feb	06-Feb	07-Feb	08-Feb	09-Feb	10-Feb	11-Feb
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	DRY	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	ISOL	SCT	FWS	SCT	ISOL	SCT	SCT
3	ASSAM & MEGHALAYA	DRY	ISOL	ISOL	DRY	DRY	ISOL	ISOL
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY	ISOL	ISOL	DRY	DRY	ISOL	ISOL
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	DRY	DRY	ISOL	ISOL
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	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	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	DRY	DRY	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	ISOL	DRY	DRY	ISOL	SCT	SCT	SCT
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	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	DRY	DRY	DRY	DRY	DRY	DRY	DRY
36	LAKSHADWEEP	DRY	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 Multi Hazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

- ❖ Minimum temperatures are in the range of **5-10°C** over many parts of Western Himalayan region and plains of Northwest India; **11-20°C** over many parts of Central, East & West India. Today, the lowest minimum temperature of **4.2°C** is reported at **Bathinda & Faridkot (Punjab)** over the plains of the country.
- ❖ During the past 24 hours, **minimum temperatures has fallen by 1-4°C** over some parts of Northwest, Central & West India and **risen by 1-4°C** in some parts of East & South Peninsular; at isolated places over Northeast India & Andaman & Nicobar Islands.
- ❖ Minimum temperatures are **above normal (2°C or more)** in most parts of Uttar Pradesh, Madhya Maharashtra, Marathawada and Central India; In many parts of East India and at isolated places over Coastal Andhra Pradesh & Yanam and Assam & Meghalaya. These are **below normal (-1.6°C or less)** in some parts of Rajasthan; at isolated places over Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Interior Karnataka, Rayalaseema and Gujarat State and near normal over rest parts of the country.
- ❖ Maximum temperatures are in the range of **34-38°C** over many parts of southeast Madhya Pradesh, Chhattisgarh, Vidarbha, Marathawada, Telangana, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Western Odisha. Yesterday, the highest **maximum temperature** of **38.4°C** was reported at **Nandigama (Coastal Andhra Pradesh)** over the plains of the country.
- ❖ Maximum temperatures were **above normal by 3-7°C** at many places over Central India and adjoining east & South Peninsular India and **by 1-3°C** over many parts of west & northwest India and near normal over rest parts of the country.

Fig. 1: Maximum Temperatures

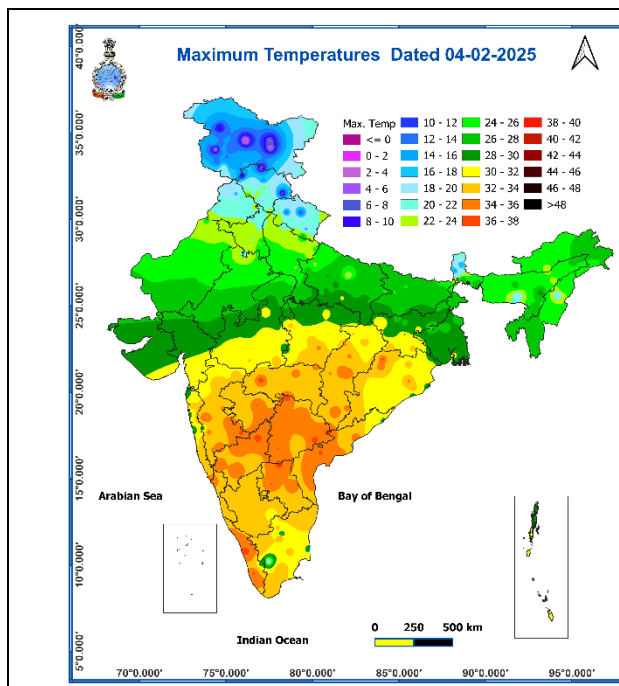


Fig. 2: Departure of Maximum Temperatures

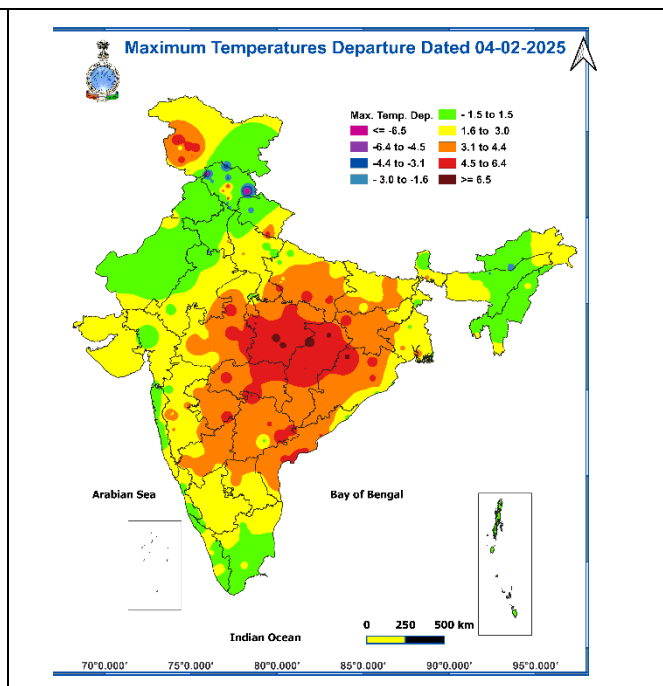


Fig. 3: Minimum Temperatures

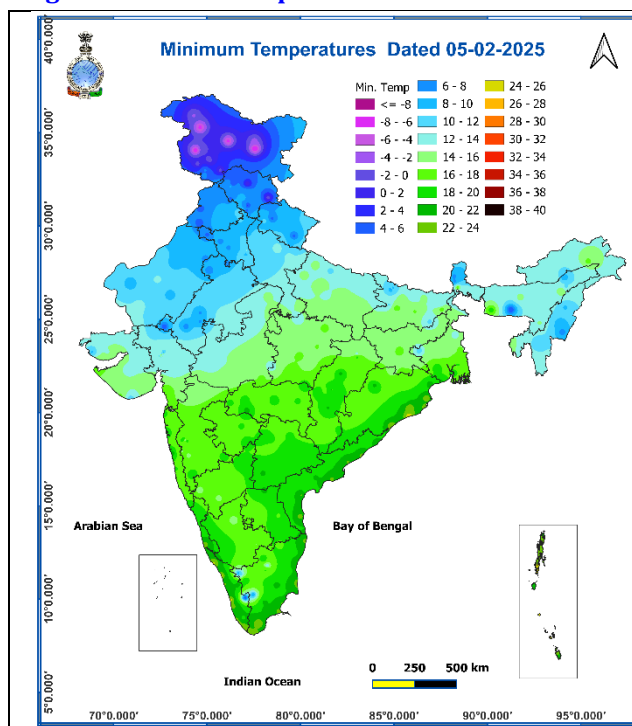
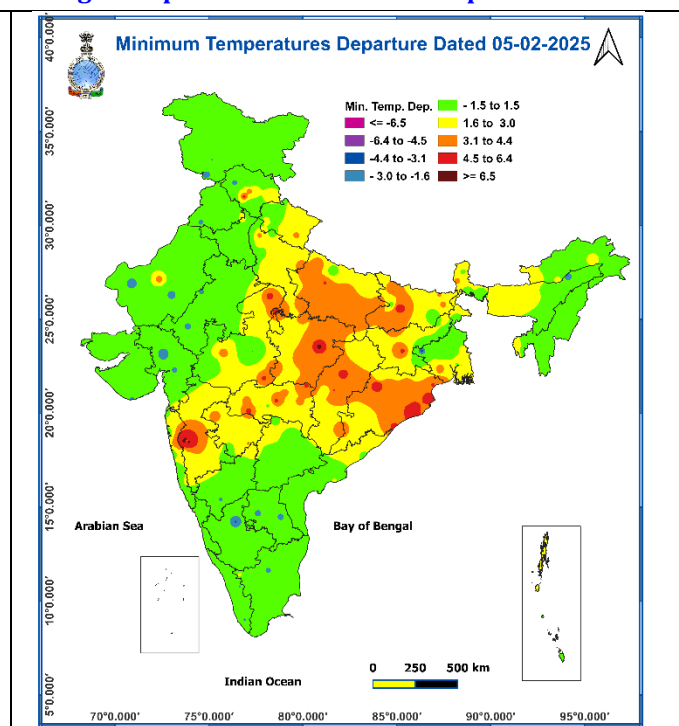


Fig. 4: Departure of Minimum Temperatures



Weather forecast over Delhi/NCR during 05th Feb. to 08th Feb. 2025

Past Weather:

There has been a fall in minimum temperatures upto 01 - 03 °C over Delhi/NCR during the past 24 hours. The Maximum and Minimum temperatures over Delhi are in the range of 24 to 26°C and 10 to 11°C respectively. The minimum temperature was near normal and maximum temperature was above normal upto 04 °C over most places. Shallow fog was reported at Safdarjung and Palam airport. Safdarjung airport recorded the lowest visibility 1000m from 0700 hours to 0830 hours IST which improved thereafter becoming 1400 m at 0900 hours. Palam airport recorded the lowest visibility 800 m from 0730 hours to 0830 hours IST which improved thereafter becoming 1100 m at 0900 hours IST. Mainly cloudy sky conditions with predominant surface wind from the west direction with wind speed reaching 06 to 08 kmph prevailed during the past 24 hours. Rainfall observed at most places over Delhi. Mainly smog/mist conditions with wind speed less than 08 kmph northwest direction prevailed over the region in the forenoon today.

Weather Forecast:

05.02.2025: Mainly clear sky. The predominant surface wind will likely to be from northwest direction with a wind speed of less than 14 kmph till evening. It would decrease thereafter becoming less than 10 kmph from the northwest direction during the night. Smog/mist is likely in the night.

06.02.2025: Mainly clear sky. The predominant surface wind is likely to be from the northwest direction with a wind speed less than 10 kmph during morning hours. Smog/ shallow fog likely in the morning. The wind speed will gradually increase thereafter becoming 14-16 kmph from the northwest direction during the afternoon. It will decrease further becoming less than 10 kmph from the northwest direction during evening and night. Smog/mist is likely in the night.

07.02.2025: Mainly clear sky. The predominant surface wind will likely to be from the northwest direction with a wind speed of less than 08 kmph during morning hours. Smog/ shallow 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 decrease becoming less than 08 kmph from northwest direction during evening and night. Smog/mist is likely in the night.

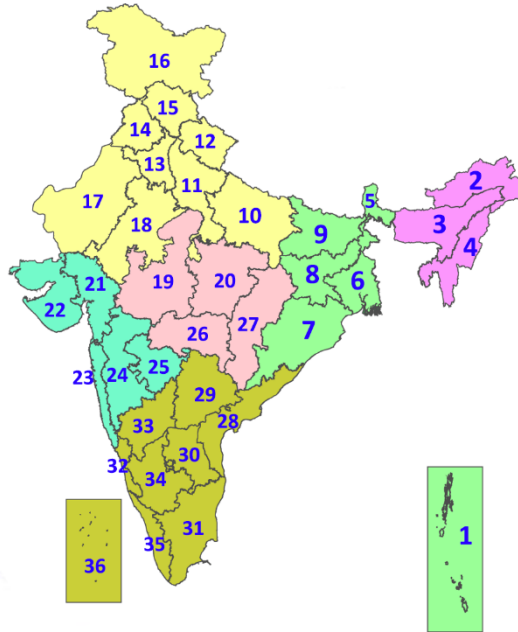
08.02.2025: Mainly clear sky. The predominant surface wind will likely to be from northwest direction with a wind speed of less than 06 kmph during morning hours. Smog/ shallow fog likely in the morning. The wind speed will gradually increase thereafter becoming 10-12 kmph from the northwest direction during the afternoon. It will increase becoming less than 06 kmph from northwest direction during evening and night. Smog/mist is likely in the 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 Marathwada.
 - **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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