



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 02nd February, 2025

Time of Issue: 1315 hours IST

Subject: (i) Wet Spell likely to continue over Western Himalayan Region till 05th and likely over adjoining plains of Northwest India on 03rd & 04th February, 2025.

(ii) Dense to very dense fog very likely to continue over North 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, Uttar Pradesh, and dense fog (visibility 50-199 m) reported in isolated pockets of Sub-Himalayan West Bengal & Sikkim, Odisha, Gangetic West Bengal.
- ❖ Light rainfall/snowfall occurred at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

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

- ❖ A Western Disturbance is seen as a cyclonic circulation over north Pakistan in lower & middle tropospheric levels with an induced cyclonic circulation over East Rajasthan in lower tropospheric levels. Another Western Disturbance is seen as a cyclonic circulation over South Iran & neighbourhood in lower & middle tropospheric levels.
- ❖ Under the influence of the first system,
 - ✓ Isolated light rainfall/snowfall activity likely over Western Himalayan Region on 02nd & 03rd February, 2025.
- ❖ Under the influence of the second system,
 - ✓ Scattered to Fairly widespread light to moderate rainfall/snowfall likely over Western Himalayan Region on 04th & 05th February. Light rainfall also likely over adjoining plains of Northwest India during 04th & 05th February.

Temperature and Fog Forecast:

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

Forecast of temperature:

- ❖ No significant change in minimum temperatures likely over Western Himalayan region during next 2 days and gradual rise by 2-3°C during subsequent 3 days.
- ❖ Gradual rise in minimum temperatures by 2-3°C likely over plains of Northwest India during next 4-5 days.
- ❖ Gradual rise in minimum temperatures by 2-3°C likely over Maharashtra during next 3 days and no significant change thereafter.
- ❖ No significant change in minimum temperatures likely over West India during next 2 days and fall by 2-3°C during subsequent 3 days
- ❖ No significant change in minimum temperatures likely over Central India during next 3 days and fall by 2-3°C thereafter.

Dense Fog Warnings:

- ❖ Dense to very Dense fog Conditions very likely to continue to prevail during night/early morning hours in some pockets of Punjab, Haryana and Chandigarh on 02nd February.
- ❖ Dense fog conditions very likely to continue to prevail during night/early morning hours in isolated pockets of Uttar Pradesh, West Bengal & Sikkim on 02nd; Bihar, Odisha, Assam & Meghalaya till 03rd; Punjab, Haryana Chandigarh on 03rd February.

iii. Weather conditions and forecast over Delhi/NCR during 02nd Feb. to 05th Feb. 2025 (Annexure V)

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>

ANNEXURE I

Rainfall recorded during past 24 hours till 0830 hours IST of today 02.02.2025 (in cm):

❖ **Jammu-Kashmir:** Khudwani Arg (dist Anantnag) 1, Badarwah (dist Doda) 1, Anantnag Aws (dist Anantnag) 1, Kulgam Aws (dist Kulgam) 1,

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

❖ **Punjab:** Amritsar 0; **East Uttar Pradesh:** Kushinagar 0; **West Uttar Pradesh:** Aligarh 30; **Sub-Himalayan West Bengal & Sikkim:** Pakyong 50; **Odisha:** Angul 50; **Gangetic West Bengal:** Dum-Dum 100.

Impact expected due to dense fog in the night /morning hours over North 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.

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.

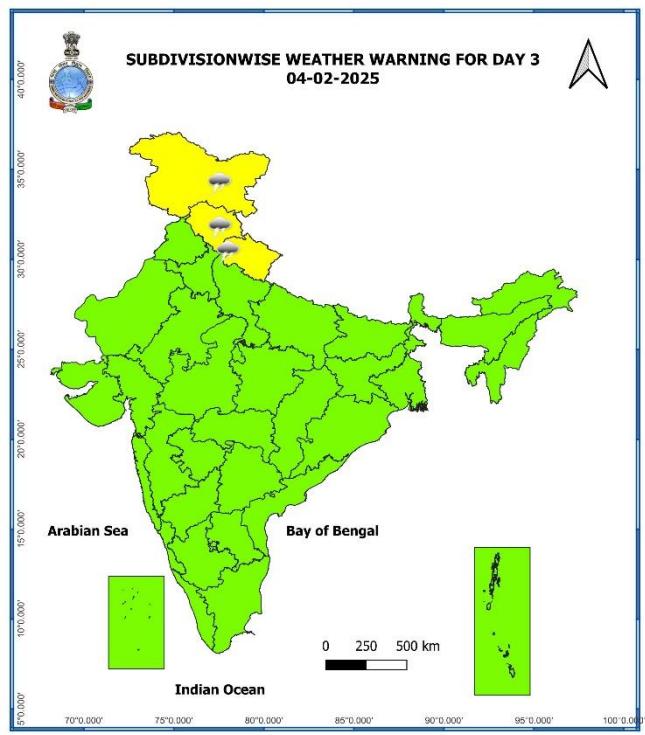
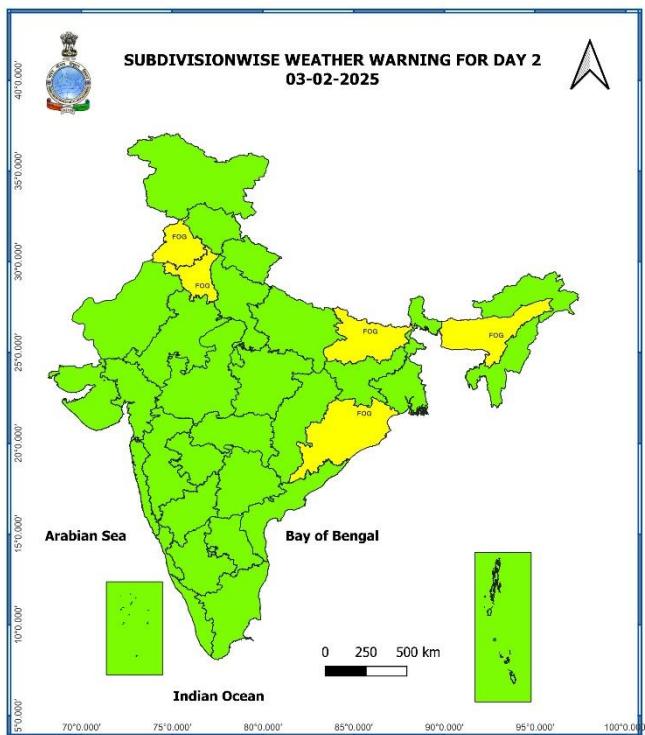
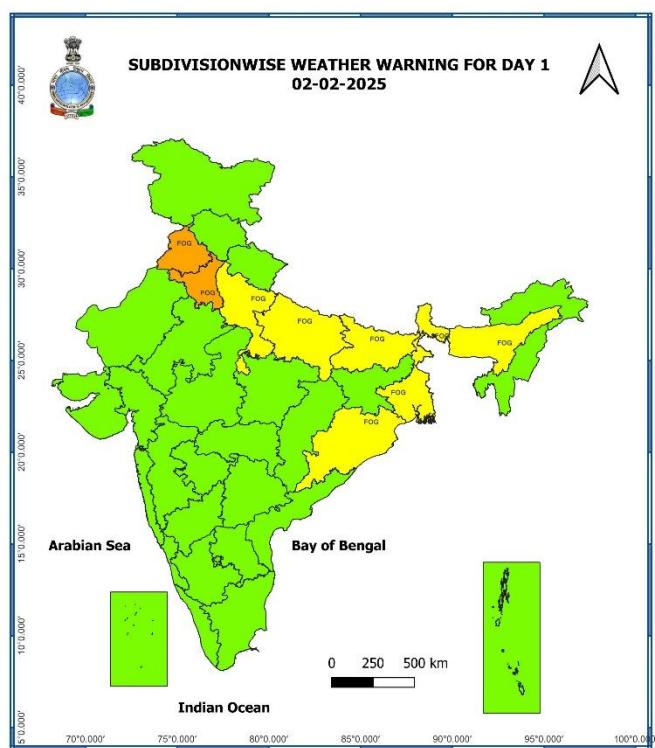
❖ Power Sector:

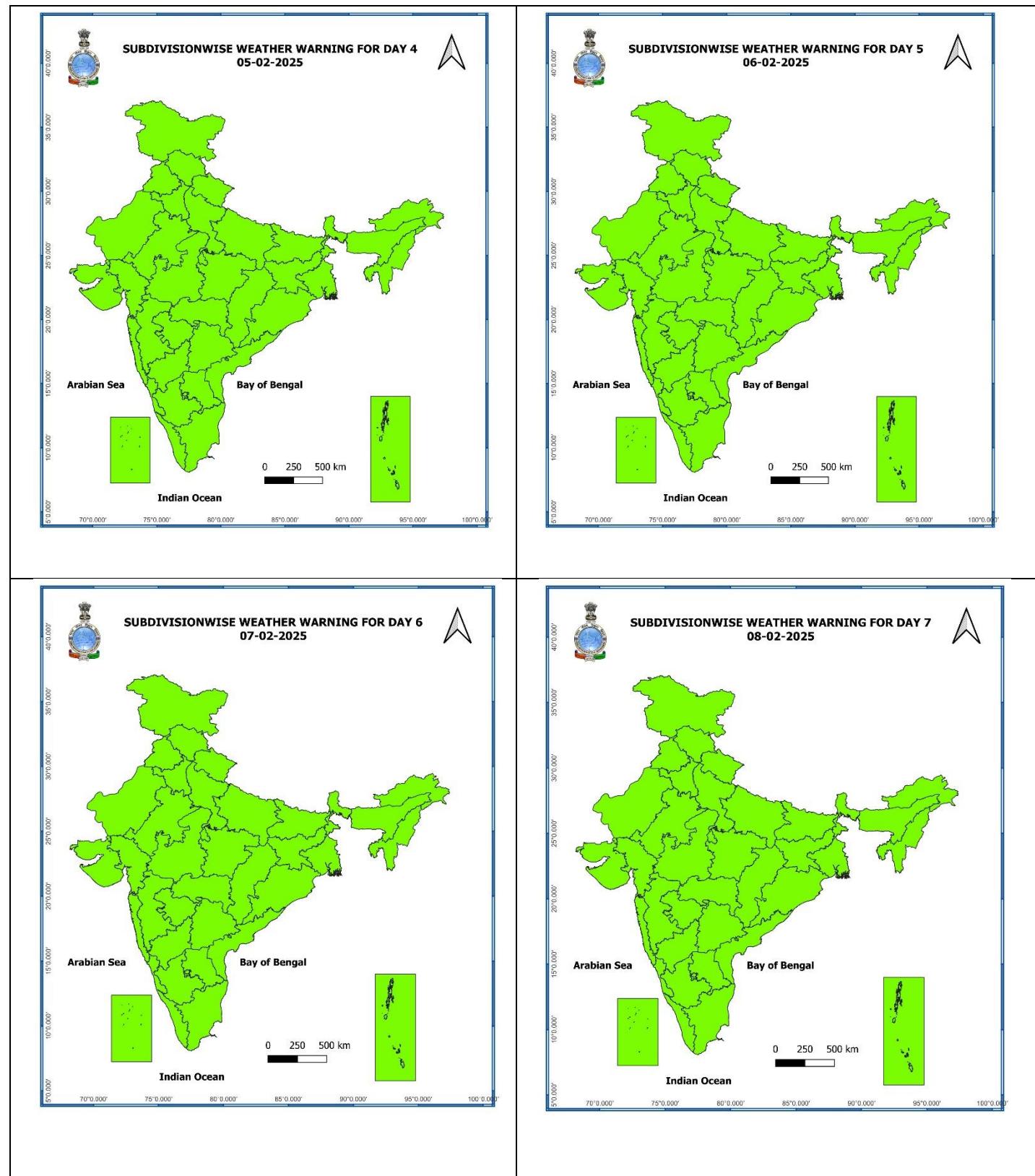
- To keep ready Maintenance Team.
- Human Health: To avoid outing until unless emergency and to cover the face.

ANNEXURE II

S. No.	Subdivision	7 Days Rainfall Forecast						
		02-Feb Day 1	03-Feb Day 2	04-Feb Day 3	05-Feb Day 4	06-Feb Day 5	07-Feb Day 6	08-Feb Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	ISOL	DRY	DRY	ISOL	SCT	SCT	SCT
3	ASSAM & MEGHALAYA	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	DRY	DRY	DRY	ISOL	ISOL	ISOL	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	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
12	UTTARAKHAND	DRY	ISOL	FWS	ISOL	DRY	DRY	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	ISOL	FWS	SCT	DRY	DRY	ISOL
16	JAMMU & KASHMIR AND LADAKH	SCT	ISOL	FWS	SCT	DRY	DRY	SCT
17	WEST RAJASTHAN	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	ISOL	ISOL	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	ISOL	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	SCT	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 **6-12°C** in some parts over plains of Northwest, Central, East & West India; **12-20°C** over remaining parts of country. Today, the lowest minimum temperature of **6.2°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 isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya, Telangana, Vidarbha, West Madhya Pradesh, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam and **rise by 0-2°C** in many parts of Uttar Pradesh, East Madhya Pradesh, Madhya Maharashtra, Marathawada; in some parts of Himachal Pradesh; at isolated places over Punjab, Rajasthan, Rayalaseema and Kerala & Mahe.
- ❖ Minimum temperatures are **above normal (2°C or more)** in many parts of East Madhya Pradesh, Gangetic West Bengal, Marathawada; in some parts of Delhi, East Uttar Pradesh, Odisha, Chhattisgarh, Madhya Maharashtra, Kerala & Mahe ; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana, Rajasthan, Bihar, Jharkhand, West Madhya Pradesh, Telangana, Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam. They are **below normal (-1°C to -3°C)** at isolated places over Saurashtra & Kutch and near normal over rest parts of the country.

Fig. 1: Maximum Temperatures

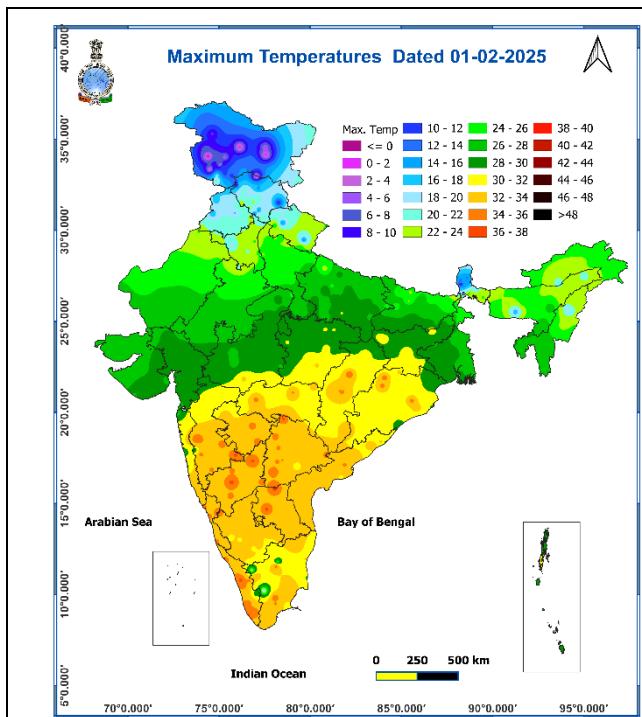


Fig. 2: Departure of Maximum Temperatures

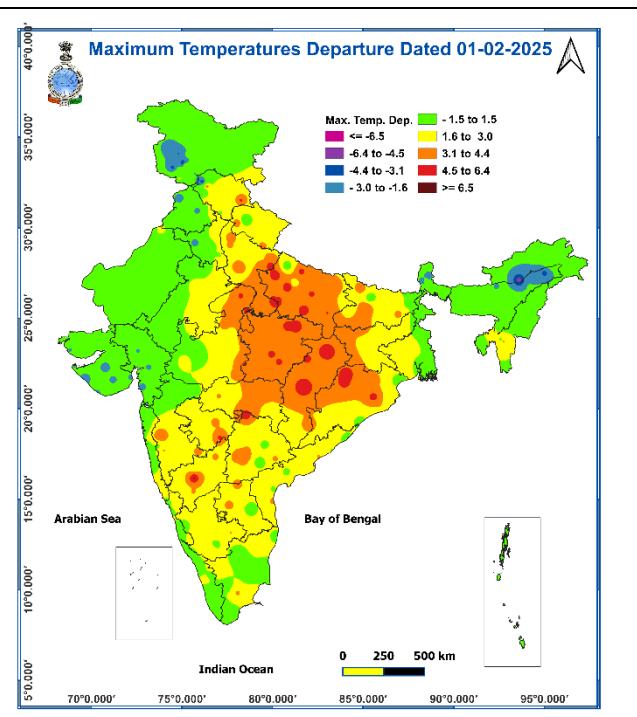


Fig. 3: Minimum Temperatures

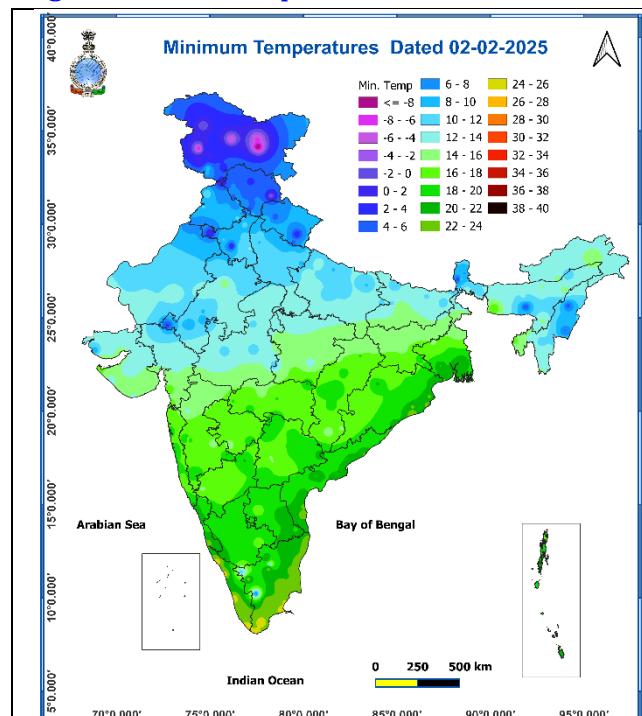
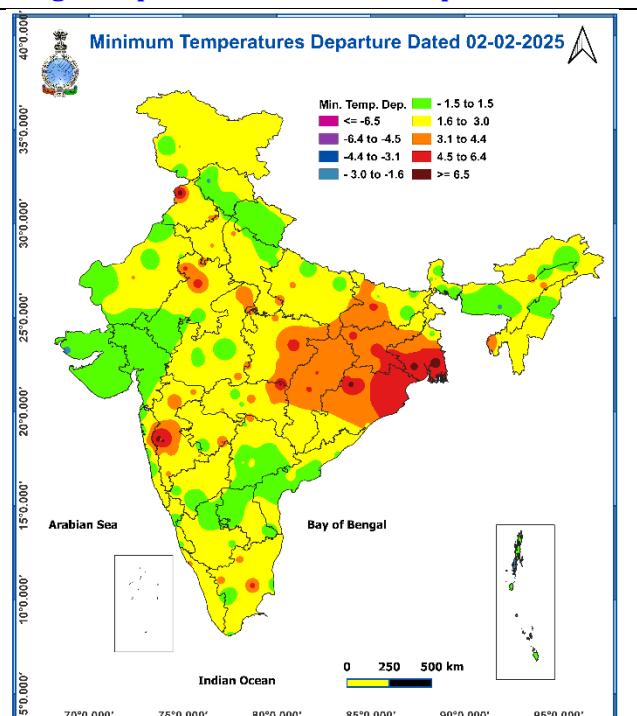


Fig. 4: Departure of Minimum Temperatures



Weather forecast over Delhi/NCR during 02nd Feb. to 05th Feb. 2025

Past Weather:

There has been a rise in minimum temperatures up to 01-02 °C over Delhi/NCR during the past 24 hours. The Maximum and Minimum temperatures over Delhi are in the range of 22 to 26°C and 11 to 13°C respectively. The minimum temperatures were above normal up to 04 °C, and the maximum temperature was above normal up to 45 °C over most places. Moderate fog was reported at Safdarjung airport. Safdarjung airport recorded the lowest visibility, 200m from 0700 hours to 0800 hours IST, which improved to 300 m at 0830 hours. Dense fog was reported at Palam airport. Palam airport recorded the lowest visibility, 50 m from 0400 hours to 0500 hours IST, which improved thereafter, becoming 150 m at 0530 hours IST. Mainly smog/moderate to dense fog conditions, with predominant surface wind from the west direction and wind speed reaching 08 to 10 kmph, prevailed during the past 24 hours. Mainly Smog/Shallow fog conditions with wind speed less than 14 kmph west direction prevailed over the region in the forenoon today.

Weather Forecast:

02.02.2025: Partly cloudy sky. The predominant surface wind will likely be in the west/northwest direction with a wind speed of less than 16 kmph till evening. It would decrease thereafter, becoming less than 10 kmph from the west/southwest direction during the night. Smog/shallow fog is likely in the night.

03.02.2025: Partly cloudy sky with the possibility of a spell of very light rain/drizzle during the night. The predominant surface wind is likely from the north/northwest direction with a wind speed less than 08 kmph during morning hours. Smog/ shallow fog in most places is very likely to commence during the early morning hours, with moderate fog in isolated places during the morning hours. The wind speed will decrease slightly thereafter becoming less than 06 kmph from north/northeast direction during the afternoon. It will decrease further becoming less than 08 kmph from the southeast direction during evening and night. Smog/mist is likely in the night.

04.02.2025: Generally cloudy sky with the possibility of one or two spells of light rain during morning/forenoon. The predominant surface wind will likely be in the north/northeast direction with a wind speed of less than 08 kmph during morning hours. Smog/ shallow fog in most places is very likely to commence during the early morning hours, with moderate fog in isolated places during the morning hours. The wind speed will gradually increase thereafter, becoming 10-12 kmph from the southeast direction during the afternoon. It will decrease becoming less than 08 kmph from southeast direction during evening and night.

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

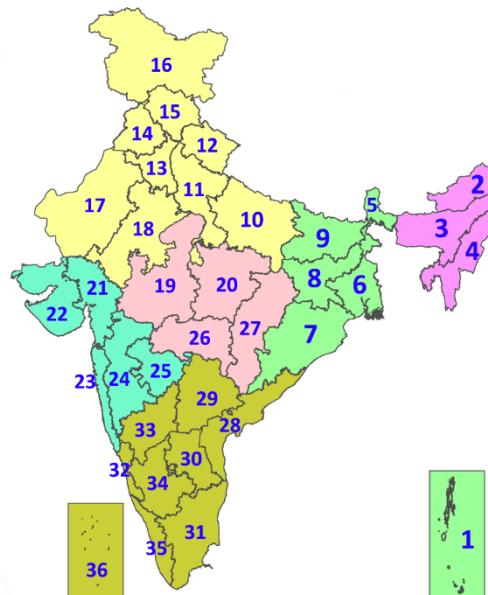
Legends & abbreviations:

- ❖ **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. 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. 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. 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



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)

* 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)