



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 24th February, 2025

Time of Issue: 1345 hours IST

Subject: An active Western Disturbance is likely to affect Northwest India from 25th and cause heavy rainfall/snowfall over Jammu & Kashmir during 25th-28th, Himachal Pradesh during 26th-28th and Uttarakhand on 27th & 28th February. It is also likely to cause isolated to scattered rainfall over plains of northwest India during 26th to 28th February, 2025.

Temperature:

- ❖ During Past 24 hours, Day temperatures have fallen by 1-4°C at many places over Bihar, Nagaland, Manipur, Mizoram & Tripura; at isolated places over Uttarakhand, Chhattisgarh, Sub-Himalayan West Bengal, north Telangana. It has raised by 1-4°C at many places over Northwest India, Coastal Andhra Pradesh; at isolated places over Assam & Meghalaya and no significant change over remaining parts of the country.
- ❖ Day temperatures were appreciably above normal by 3-5°C at isolated places over Western Himalayan region, West Rajasthan, Jharkhand, Konkan and above normal by 1-3°C at isolated places over Coastal Andhra Pradesh & Yanam and near normal over remaining parts of the country.
- ❖ During past 24 hours, Night temperatures have fallen by 1-4°C at a few places over East Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Odisha, Coastal Karnataka, Coastal Andhra Pradesh & Yanam; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Ladakh and it has raised by 1-3°C over many parts of Madhya Pradesh; at a few places over Jammu-Kashmir, Himachal Pradesh, Rajasthan, Haryana, Punjab; at isolated places over Uttarakhand, Gangetic West Bengal, Odisha, Kerala & Mahe and no significant change over remaining parts of the country.
- ❖ Night temperatures were appreciably above normal by 3-5°C over some parts of Konkan & Goa; at isolated places over Gujarat State, Bihar, Odisha, West Madhya Pradesh; above normal by 1-3°C over some parts of Rajasthan, Odisha; at isolated places over Punjab & Gangetic West Bengal. These are **below normal -3°C to -1°C** at isolated places over Telangana and near normal over remaining parts of the country.
- ❖ Further detailed temperature observations during past 24 hours till 0830 hours IST of today are provided in **Annexure II**

Rainfall:

- ❖ Light to moderate **Rainfall/Snowfall** observed at many places over Arunachal Pradesh; at isolated places over Uttarakhand; Light to moderate **Rainfall** at a few places over Assam & Meghalaya, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Kerala & Mahe, Coastal Karnataka.
- ❖ **Hailstorms reported** at isolated places over Arunachal Pradesh and Assam.
- ❖ **Thunderstorm with lightning** reported at many places over Northeast India; at isolated places over Gangetic West Bengal, Odisha and Telangana.
- ❖ **Gusty wind (in knots)** observed: **Assam:** North Lakhimpur-34
- ❖ **Ground Frost reported** at isolated places over Himachal Pradesh (Bilaspur).

i. Weather Systems, Forecast and warning (Annexure III & IV):

- ❖ A Western Disturbance seen as a trough in lower to upper tropospheric levels with its axis at 3.1 Km above mean sea level roughly along Long. 46°E to the north of Lat. 23°N. High moisture feeding is also likely over Western Himalayan Region in lower tropospheric levels from Arabian Sea mainly during 25th-28th February, 2025. As a result;

- ✓ **Fairly widespread to widespread** light to moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh during 25th-28th; Uttarakhand during 26th-28th February.
- ✓ **Heavy rainfall/snowfall** at isolated places likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 25th-28th; Himachal Pradesh during 26th-28th; Uttarakhand on 27th & 28th February with isolated **very heavy rainfall/snowfall** at isolated places likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh on 27th February.
- ✓ **Isolated to scattered** light to moderate rainfall likely over Punjab, Haryana, Chandigarh during 26th February-01st March; over West Uttar Pradesh & Rajasthan during 27th February-01st March and East Uttar Pradesh on 28th February & 01st March. Thunderstorm & lightning activity also likely over Punjab & Haryana during 26th-28th; north Rajasthan on 27th & 28th February.
- ❖ A cyclonic circulation lies over northeast Assam in lower tropospheric levels. Under its influence;
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm & lightning** very likely over Sub-Himalayan West Bengal & Sikkim on 24th; Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 24th & 25th February.
 - ✓ **Hailstorm activity also likely at isolated places over Arunachal Pradesh and northeast Assam on 24th February.**
- ❖ Under the influence of an active easterly wave;
 - ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning** very likely over Andaman & Nicobar Islands during 24th-26th February. **Heavy rainfall** at isolated places likely over Andaman & Nicobar Islands on 25th February.
- ❖ **Scattered to Fairly widespread** light/moderate rainfall accompanied with **thunderstorm & lightning** very likely over Tamilnadu Puducherry & Karaikal and Kerala & Mahe during 27th February to 1st March with isolated Heavy rainfall on 28th February & 01st March.

Temperature Forecast:

Forecast of temperature:

Minimum Temperature:

- ❖ Gradual rise in minimum temperatures by 3-5°C likely over Northwest India during next 4 days and gradual fall by 2-3°C thereafter.
- ❖ No significant change in minimum temperatures likely over rest parts of India during next 4-5 days.

Maximum temperature:

- ❖ Gradual rise in maximum temperatures by about 2°C likely over plains of Northwest India during next 48 hours gradual fall by 3-5°C thereafter.
- ❖ No significant change in maximum temperatures likely over Central India during next 24 hours and rise by 2-4°C thereafter.
- ❖ No significant change in maximum temperatures likely over Gujarat State during next 24 hours and rise by 2-3°C thereafter.
- ❖ No significant change in maximum temperatures likely over rest parts of India during next 4-5 days.
- ❖ **Hot & Humid conditions: Hot & Humid conditions** likely over isolated pockets of Konkan & Goa and Coastal Karnataka during 24th -26th; Gujarat State during 24th-28th February.

iii. Weather conditions and forecast over Delhi/NCR during 24th Feb. to 27th 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>

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

- ❖ **Arunachal Pradesh:** Anini_aws (dist Dibang Valley) 4, Tuting_ Aws (dist Upper Siang) 3, Sejosa (dist Pakke Kessang) 2;
- ❖ **Assam & Meghalaya:** Raha (Arg) (dist Nagaon) 2, Dholla Bazar (dist Tinsukia) 1, Sonapur Arg (dist Kamrup Metropolitan) 1, N.lakhimpur/lilabari (dist Lakhimpur) 1;
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** Zunheboto (dist Zunheboto) 1
- ❖ **Coastal Karnataka:** Gersoppa (dist Uttara Kannada) 2

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

- ❖ **Dense fog (visibility 50-199 m)** reported in isolated pockets of Himachal Pradesh, West Uttar Pradesh.
- ❖ **Visibility reported (≤ 200 m) (in meter): Himachal Pradesh:** Bilaspur 50; **West Uttar Pradesh:** Najibabad 100

Hailstorm reported:

- ❖ **Arunachal Pradesh:** Longding; **Assam:** Karbianglong.

Thunderstorm reported:

- ❖ **Northeast India:** Itanagar, Passighat, Guwahati, Lakhimpur, Dhubri; **East India:** Bankura, Balasore, Chandbali, Paradeep; **South India:** Telangana.

- ❖ Minimum temperatures are in the range of 4°C to 8°C over many parts of Himachal Pradesh; 8-14°C over many parts of Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh & East Rajasthan; 14-20°C over many parts of West Rajasthan, East and West India. Today, the lowest minimum temperature of 7.5°C is reported at **Faridkot (Punjab)** over the plains of the country.
- ❖ During the past 24 hours, **minimum temperatures** have fallen by 1-4°C at a few places over East Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Odisha, Coastal Karnataka, Coastal Andhra Pradesh & Yanam; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Ladakh and it has raised by 1-3°C over many parts of Madhya Pradesh; at a few places over Jammu-Kashmir, Himachal Pradesh, Rajasthan, Haryana, Punjab; at isolated places over Uttarakhand, Gangetic West Bengal, Odisha, Kerala & Mahe.
- ❖ Minimum temperatures are **appreciably above normal (3°C to 5°C)** at a few places over Gujarat State; at isolated places over Bihar & West Madhya Pradesh; **above normal (1°C to 3°C)** at a few places over West Rajasthan, Madhya Pradesh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Tamilnadu Puducherry & Karaikal; at isolated places over Jammu-Kashmir, West Uttar Pradesh, Punjab, Madhya Maharashtra, Marathawada, Konkan & Goa, Karnataka, Kerala & Mahe. These are **below normal (-3°C to -1°C)** at a few places over Vidarbha; at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, Chhattisgarh, Telangana, Assam & Meghalaya and near normal over rest parts of the country.
- ❖ Maximum temperatures are in the range of 35-39°C over many parts of West India, Coastal Andhra Pradesh & Yanam, Tamilnadu Puducherry & Karaikal; at a few places over Rayalaseema & Kerala & Mahe; at isolated places over Odisha & Karnataka. Yesterday, the highest **maximum temperature of 38.5°C** was reported at **Kurnool (Rayalaseema)** over the plains of the country.
- ❖ During the past 24 hours, **maximum temperatures** have fallen by 1-4°C at many places over Bihar, Nagaland, Manipur, Mizoram & Tripura; at isolated places over Uttarakhand, Chhattisgarh, Sub-Himalayan West Bengal, north Telangana. It has raised by 1-4°C at many places over Northwest India, Coastal Andhra Pradesh; at isolated places over Assam & Meghalaya.
- ❖ Maximum temperatures were **markedly above normal (5°C or more)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **appreciably above normal (3°C to 5°C)** at a few places over Saurashtra & Kutch; at isolated places over West Rajasthan, Himachal Pradesh, Gujarat Region, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Jharkhand; **above normal (1°C to 3°C)** at most places over Madhya Maharashtra, Punjab; at a few places over Vidarbha, Marathwada, Coastal Karnataka, Kerala & Mahe; at isolated places over Telangana, Uttarakhand, West Rajasthan, Odisha, Rayalaseema, Tamil Nadu, Puducherry & Karaikal. These were **below normal (-3°C to -1°C)** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and West Bengal and near normal over rest parts of the country.

Fig. 1: Maximum Temperatures

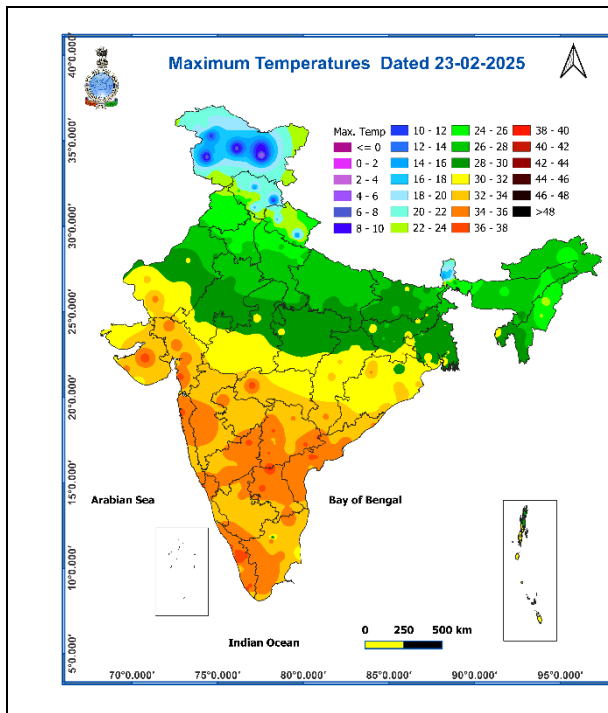


Fig. 2: Departure of Maximum Temperatures

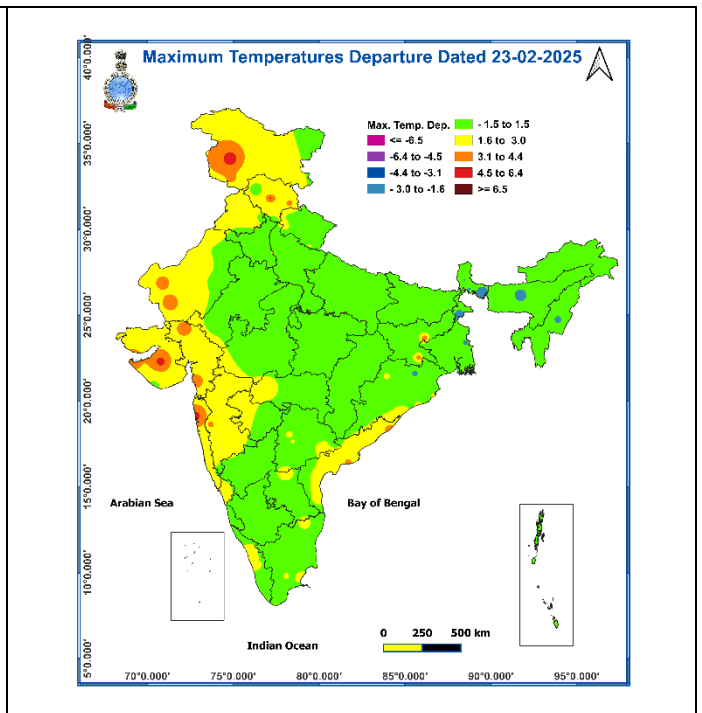


Fig. 3: Minimum Temperatures

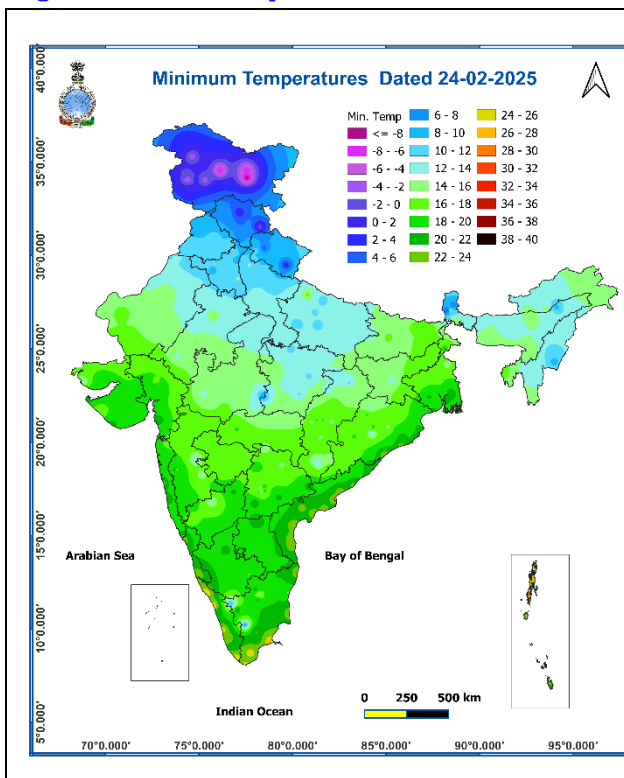
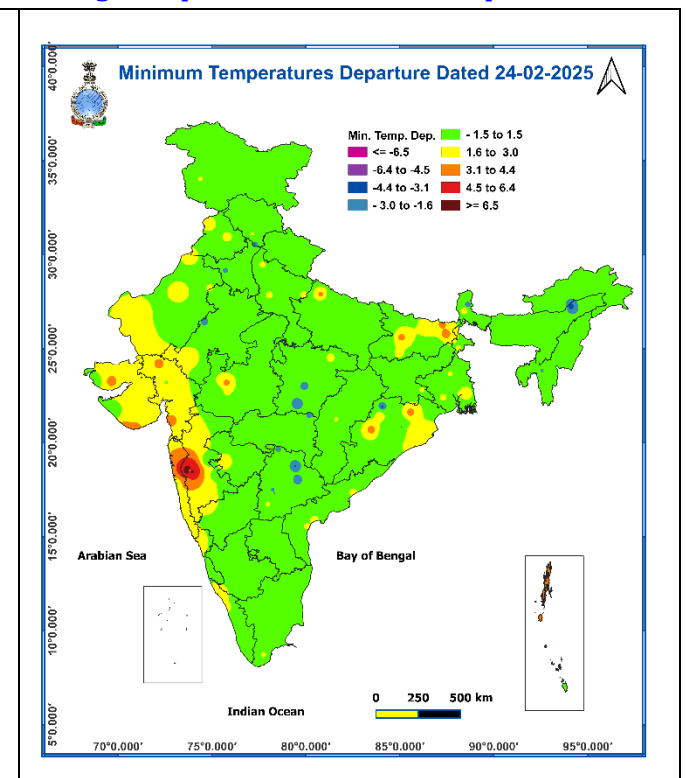
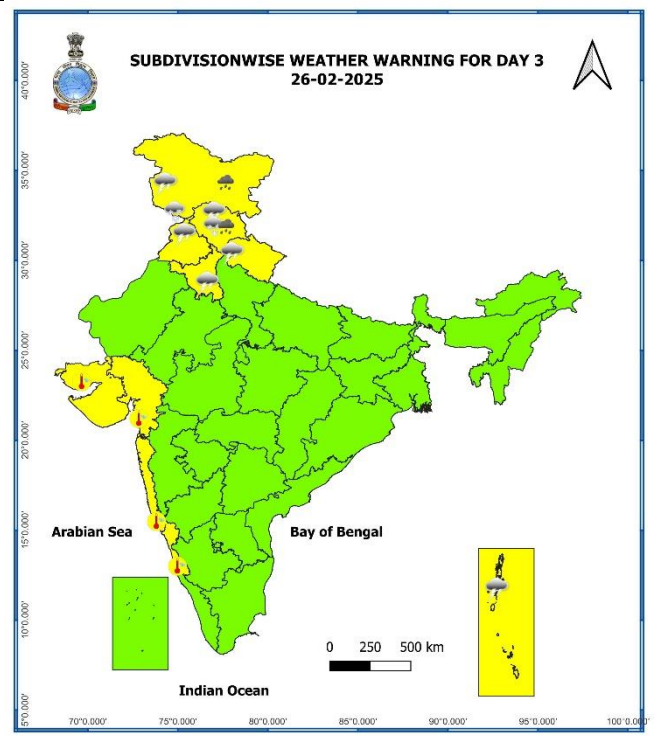
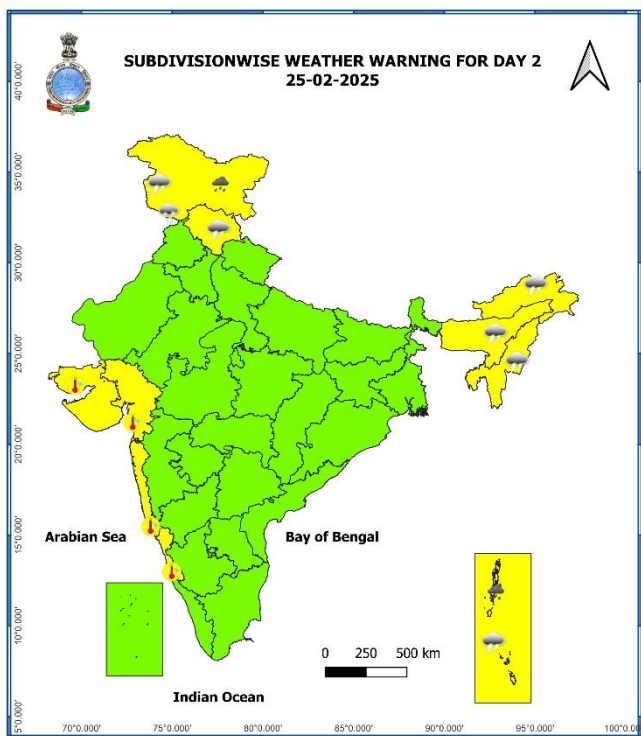
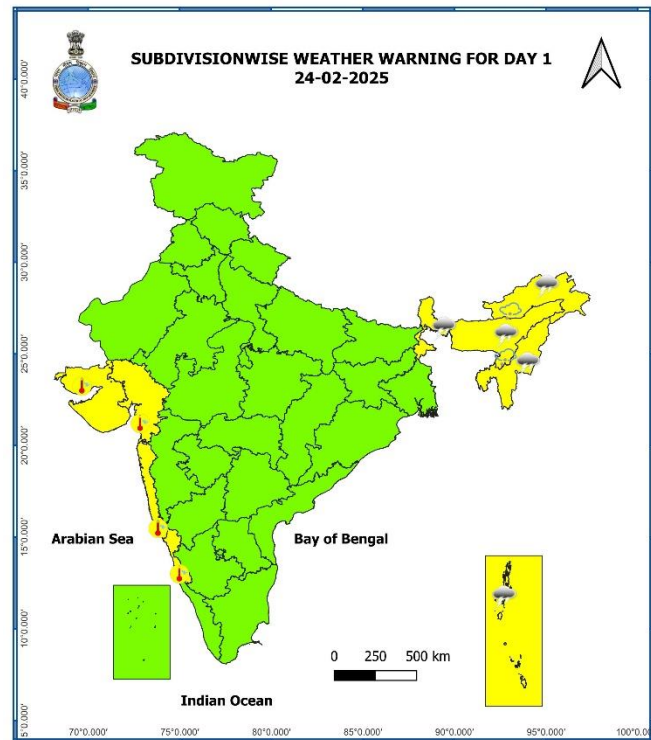


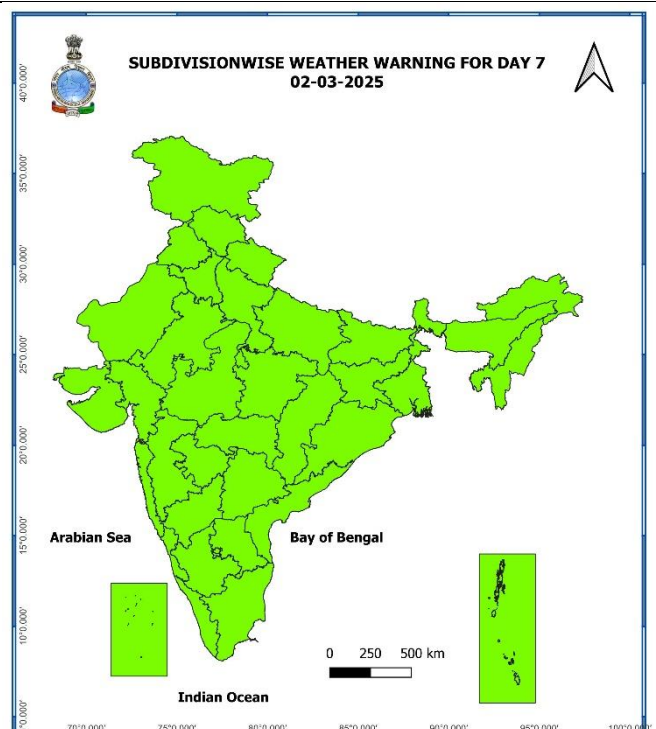
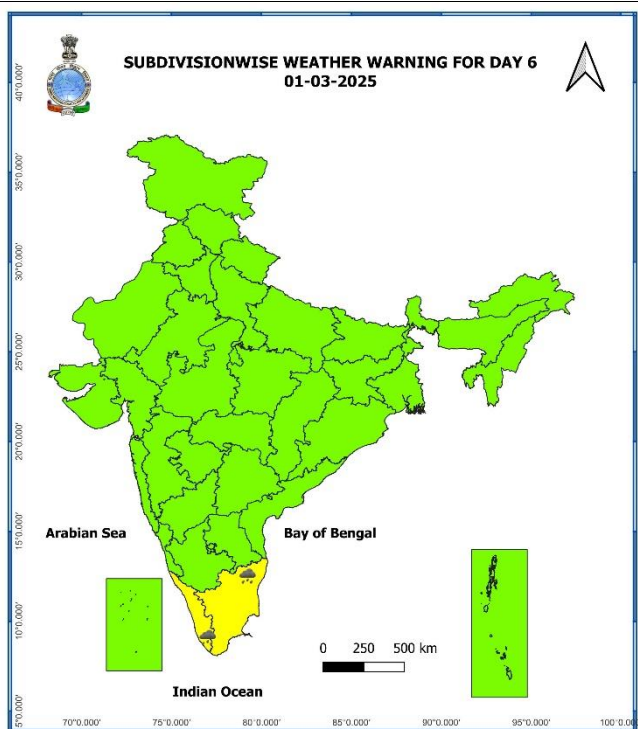
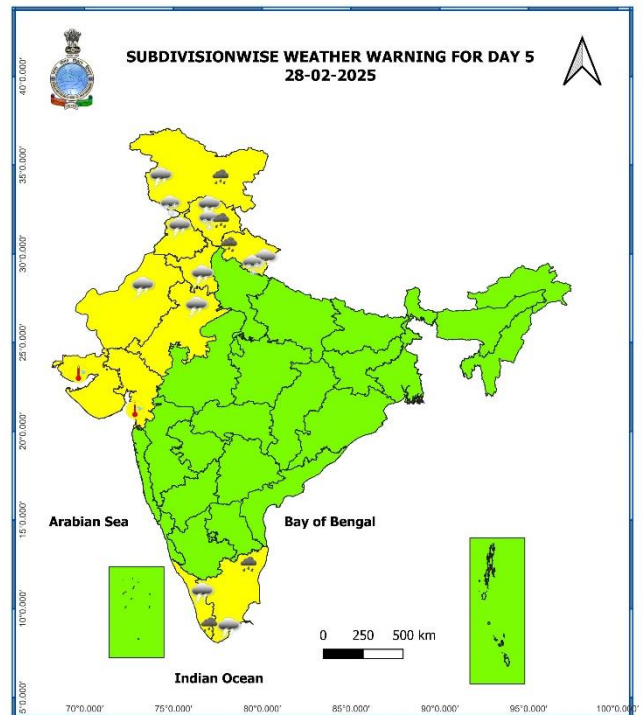
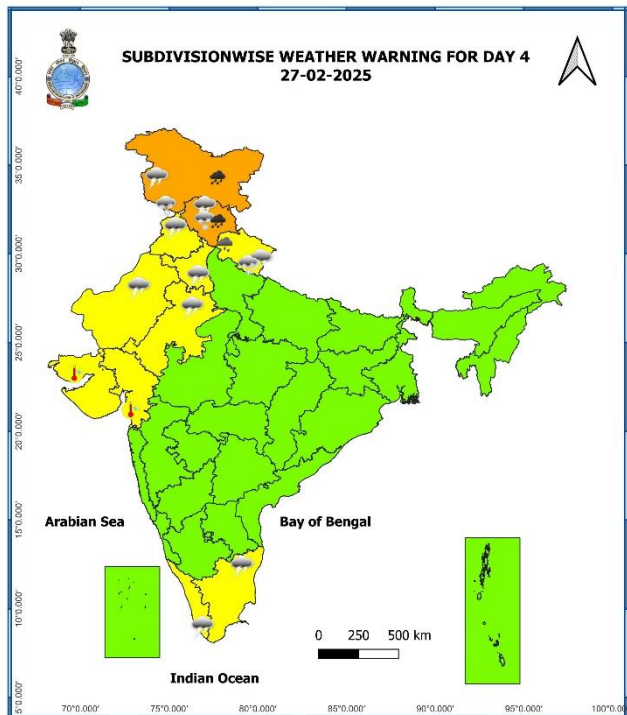
Fig. 4: Departure of Minimum Temperatures



7 Days Rainfall Forecast								
S. No.	Subdivision	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	01-Mar	02-Mar
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	WS	WS	FWS	FWS	SCT
2	ARUNACHAL PRADESH	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
3	ASSAM & MEGHALAYA	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	ISOL	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	ISOL	ISOL	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
12	UTTARAKHAND	DRY	ISOL	SCT	WS	WS	FWS	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	ISOL	SCT	SCT	ISOL	DRY
14	PUNJAB	DRY	DRY	ISOL	SCT	SCT	ISOL	DRY
15	HIMACHAL PRADESH	DRY	FWS	WS	WS	WS	FWS	SCT
16	JAMMU & KASHMIR AND LADAKH	ISOL	FWS	WS	WS	WS	FWS	SCT
17	WEST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	ISOL	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	ISOL	SCT	FWS	FWS	ISOL
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	ISOL	SCT	FWS	FWS	FWS
36	LAKSHADWEEP	DRY	DRY	DRY	SCT	SCT	FWS	FWS

- 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>

Weather forecast over Delhi/NCR during 24th Feb. to 27th Feb. 2025

Past Weather:

There has been a slight fall in minimum temperature and a rise in maximum temperature over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi range from 26 to 28°C and 11 to 12°C, respectively. The minimum temperature was below normal by 01-02°C, and maximum temperatures are above normal by 01-02°C over most places. Mainly clear sky conditions with predominant surface wind from the west direction with wind speed reaching 10 to 16 kmph prevailed during the past 24 hours. Mainly mist conditions with wind speed less than 10 kmph from the west direction prevailed over the region in the forenoon today.

Weather Forecast:

24.02.2025: Partly cloudy sky. The maximum temperature over Delhi is likely to be in the range of 26 to 28°C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 12 kmph till evening. It would decrease thereafter, becoming less than 08 kmph from the northwest direction during the night.

25.02.2025: Partly cloudy sky. Mist likely in the morning. The maximum and minimum temperatures over Delhi are likely to be in the range of 27 to 29°C and 11 to 13°C, respectively. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 10 kmph during morning hours. The wind speed will gradually increase thereafter, becoming 10-12 kmph from the northwest direction during the afternoon. It would decrease thereafter, becoming less than 08 kmph from the north direction during the night.

26.02.2025: Partly cloudy sky. Mist likely in the morning. The maximum and minimum temperatures over Delhi are likely to be in the range of 28 to 30°C and 14 to 16°C, respectively. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 10 kmph during morning hours. 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 the east-southeast direction during evening and night.

27.02.2025: Generally cloudy sky. Mist likely in the morning. Very light to light rain accompanied by thunderstorm/lightning. The maximum and minimum temperatures over Delhi are likely to be in the range of 25 to 27°C and 16 to 18°C, respectively. The predominant surface wind will likely be from the southeast direction with a wind speed of 10-12 kmph during morning hours. The wind speed will gradually increase thereafter, becoming 18-20 kmph from the southeast direction during the afternoon. It will decrease, becoming less than 12 kmph from the east-southeast direction during evening and night.

Agromet advisories for likely impact of Hailstorms/Heavy rainfall

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in **Arunachal Pradesh** and **East Assam**.
- Complete harvesting of matured rapeseed in **Uttarakhand** and cole crops in **Himachal Pradesh**.
- Make provision for draining out excess water from the standing crop fields in **Jammu and Kashmir, Himachal Pradesh and Uttarakhand**.
- Keep the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields.
- Provide mechanical support to horticultural crops and staking to vegetables.

Livestock

- Keep the animals inside the shed during hailstorms and provide them with balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm

Impact expected:

- 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:

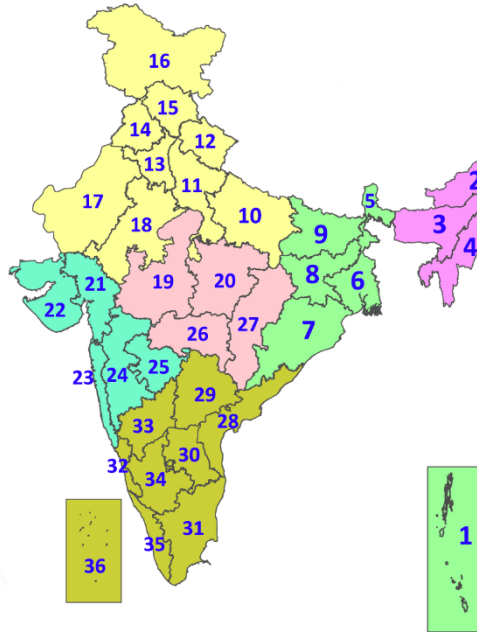
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

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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Hot and Humid: When maximum temperatures remain 3°C above normal along with the above normal relative humidity.