



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 10th February, 2025

Time of Issue: 1345 hours IST

Subject: i) Day temperature are appreciably above normal by about 3-4°C over many parts of northwest & central India and above normal by 2°C over northern parts of peninsular & East India.
ii) Rainfall/Snowfall likely at many places over Arunachal Pradesh during 10th-12th with heavy rainfall on 10th & 11th February, 2025.

i. Realised weather during past 24 hours till 0830 hours IST of today:

- ❖ During Past 24 hours Day temperature has risen by about 2°C at many places of northwest & Central India.
- ❖ Day temperature are appreciably above normal by about 3-4°C over many parts of northwest & central India and above normal by 2°C over northern parts of peninsular & East India.
- ❖ Night Temperature is increased by 2-4°C over many parts of Madhya Pradesh, West Uttar Pradesh & Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during past 24 hours.
- ❖ Light Rainfall/Snowfall in isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh.
- ❖ Dense to very dense fog conditions (visibility < 50 m) reported in isolated pockets of East Uttar Pradesh and Dense fog (visibility 50-199 m) reported in isolated pockets of Odisha.
- ❖ Visibility reported (≤200 m) (in meter): East Uttar Pradesh: Ballia 40, Gorakhpur 100; Odisha: Balasore 70.

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

- ❖ A **cyclonic circulation** lies over northeast Bangladesh & neighbourhood and another cyclonic circulation lies over northeast Assam & neighbourhood in lower tropospheric levels. Under its influence,
 - ✓ Scattered to Fairly widespread light rainfall/snowfall accompanied with thunderstorm & lightning activity likely over Arunachal Pradesh during 10th-12th February with isolated **heavy rainfall** on 10th & 11th February.
 - ✓ Isolated light rainfall activity likely over Assam during 10th-13th; Nagaland, Manipur, Mizoram & Tripura during 10th-12th February.
- ❖ A **Western Disturbance** as a cyclonic circulation in lower & middle tropospheric levels over north Afghanistan & neighbourhood. The Subtropical westerly Jet Stream with core winds of the order upto 120 knots at 12.6 km above mean sea level prevail over North India. Under their influence,
 - ✓ Isolated to scattered light rainfall/snowfall activity likely over Western Himalayan Region during 10th-12th February, 2025.

Temperature, Cold wave and Fog Forecast:

(Temperature Conditions during past 24 hours till 0830 hours IST of today is provided in [Annexure III](#))

Forecast of temperature:

- ❖ Gradual fall in minimum temperatures by 2-3°C likely over Western Himalayan Region after next 24 hours.
- ❖ No significant change in minimum temperature likely over Northwest India plains during next 5 days.
- ❖ No significant change in minimum temperature likely over Central India and fall by 2-4°C subsequent 2-3 Days.
- ❖ Gradual rise in minimum temperatures by 2-3°C likely over East India during next 2 days and fall by 2-3°C subsequent 2-3 Days.
- ❖ No significant change in minimum temperature likely over Maharashtra region during next 2 days and fall by 2-4°C subsequent 3-4 Days.

- ❖ Gradual rise Maximum temperatures are likely above normal by 2-3°C over central India during next 2 days and fall by 3.4°C subsequent 2-3 days.

Dense Fog Warnings:

- ❖ **Dense fog conditions** very likely to continue to prevail during early morning hours in isolated pockets of East Uttar Pradesh, Odisha on 10th Gangetic West Bengal during 10th-12th February.

iii. Weather conditions and forecast over Delhi/NCR during 10th Feb. to 13th Feb. 2025 (Annexure IV)

For more details, kindly refer National Weather Bulletin:

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

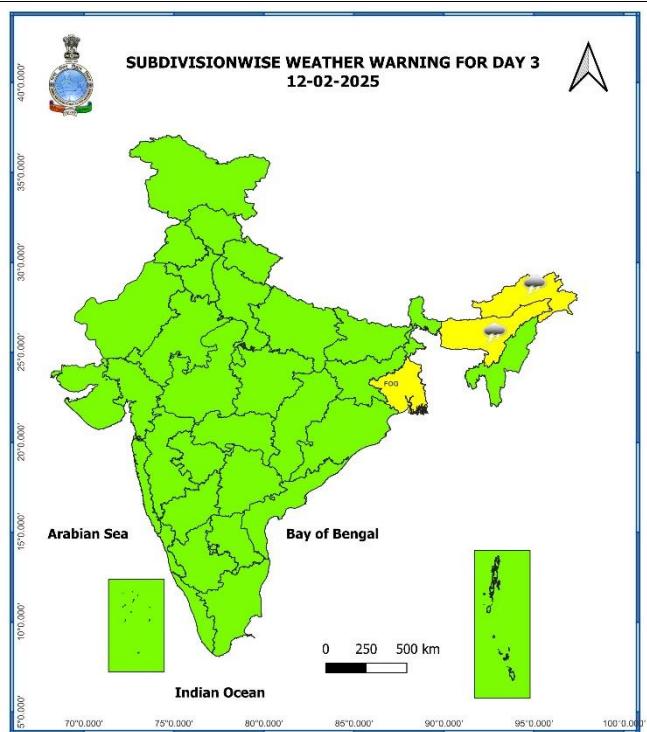
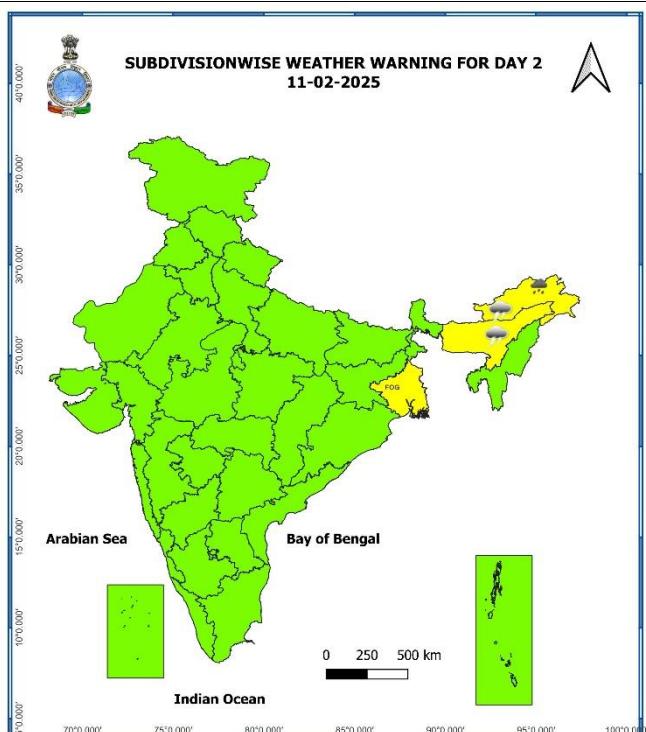
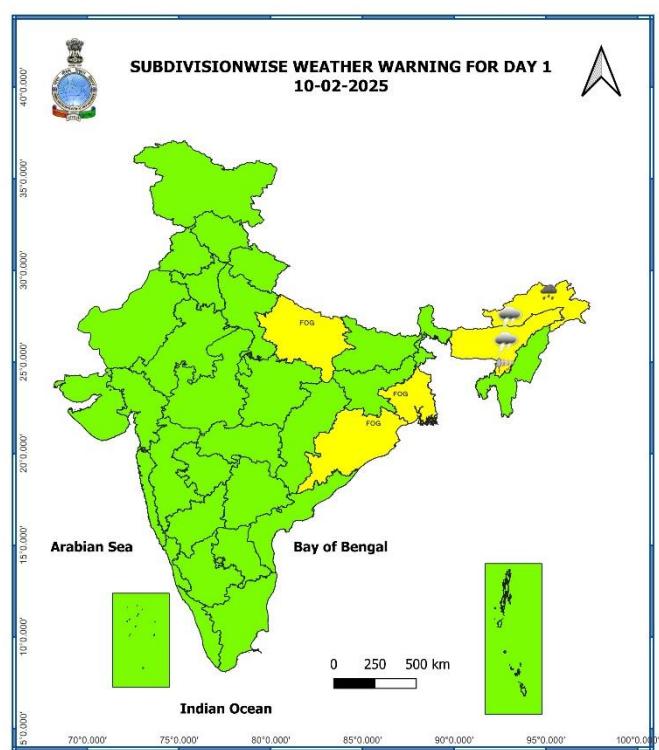
For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

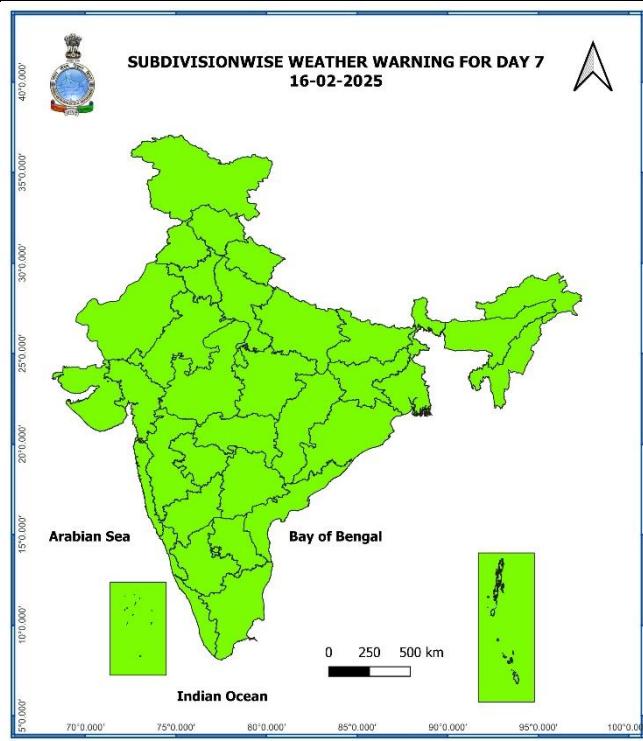
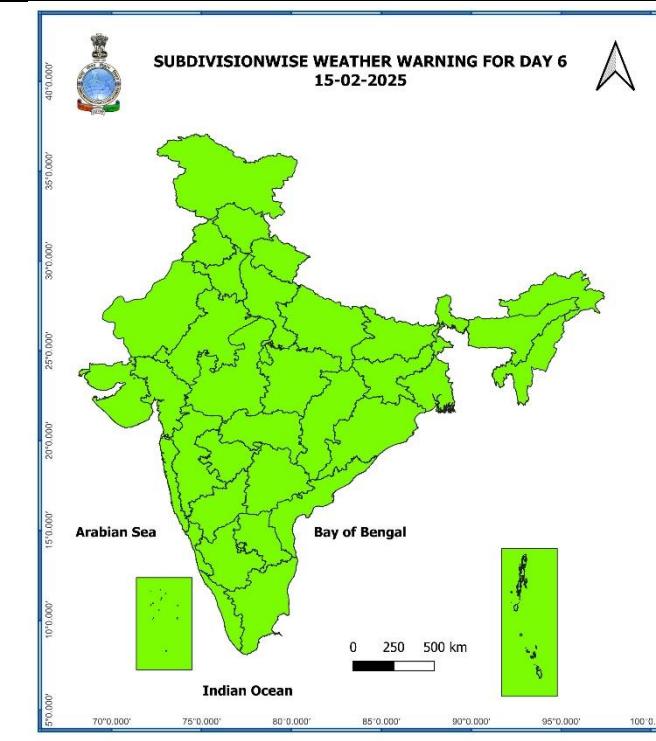
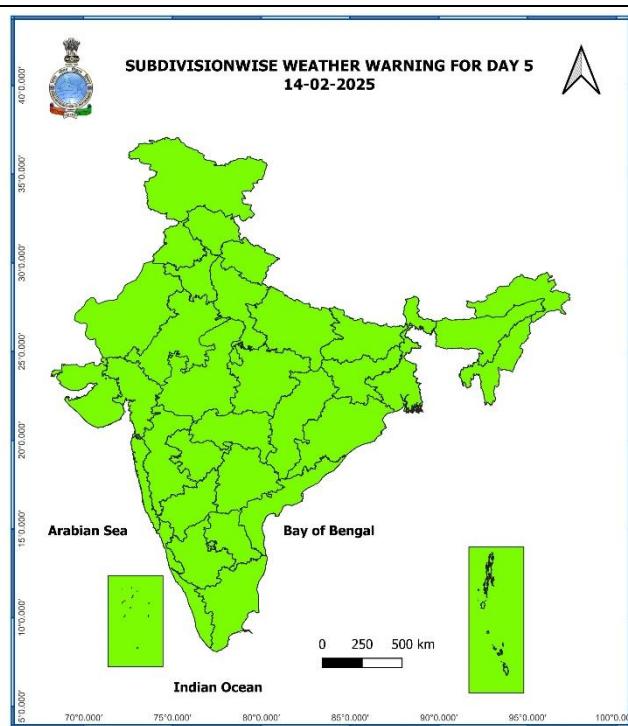
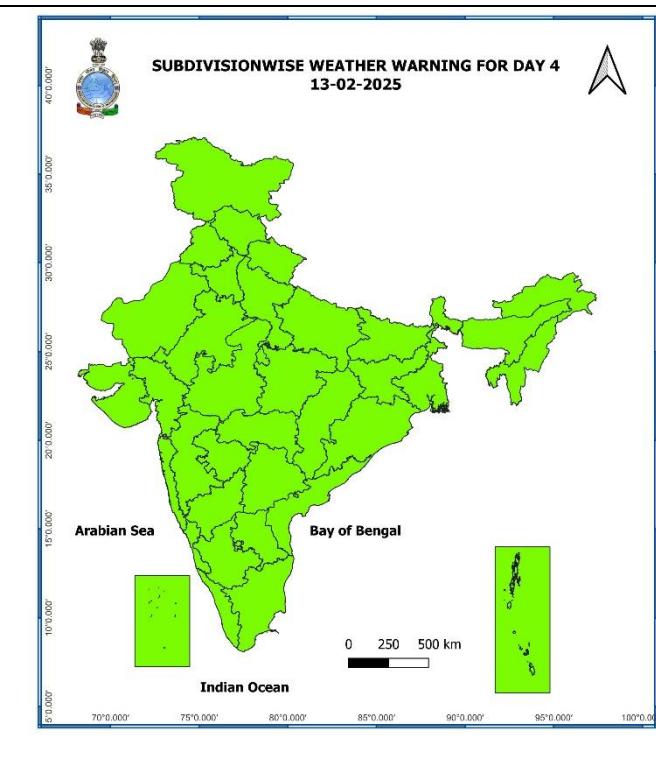
ANNEXURE I

7 Days Rainfall Forecast								
S. No.	Subdivision	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	SCT	WS	FWS	FWS	ISOL	ISOL	ISOL
3	ASSAM & MEGHALAYA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	ISOL	ISOL	DRY	DRY	DRY	DRY	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	SCT	SCT	ISOL	DRY	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY						
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	DRY						
20	EAST MADHYA PRADESH	DRY						
21	GUJARAT REGION	DRY						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	DRY						
24	MADHYA MAHARASHTRA	DRY						
25	MARATHAWADA	DRY						
26	VIDARBHA	DRY						
27	CHHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH & YANAM	DRY						
29	TELANGANA	DRY						
30	RAYALASEEMA	DRY						
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
32	COASTAL KARNATAKA	DRY						
33	NORTH INTERIOR KARNATAKA	DRY						
34	SOUTH INTERIOR KARNATAKA	DRY						
35	KERALA & MAHE	DRY						
36	LAKSHADWEEP	SCT	DRY	DRY	DRY	DRY	DRY	DRY

- As the lead period increases forecast accuracy decreases.

ANNEXURE II





- 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 **7-13°C** over many parts of north India. Today, the lowest minimum temperature of **6.7°C** is reported at **Ambikapur (Chhattisgarh)** over the plains of the country.
- ❖ Minimum temperatures are **above normal by 2-4°C** in most parts of Maharashtra; in some parts of adjoining Gujarat, West Uttar Pradesh, Rajasthan, Southwest Madhya Pradesh, west Telangana and Andhra Pradesh & Yanam; **below normal (-1°C to -3°C)** at some parts of East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, East India and near normal over rest parts of the country.
- ❖ Maximum temperatures are in the range of **30-35°C** over many parts of Peninsular India. Yesterday, the highest **maximum temperature 36.6°C** was reported at **Kalaburagi (North Interior Karnataka)** over the plains of the country.
- ❖ Maximum temperatures were **above normal by 2-4°C** at many parts of northwest, west, north peninsular and adjoining central India and near normal over rest parts of the country.

Fig. 1: Maximum Temperatures

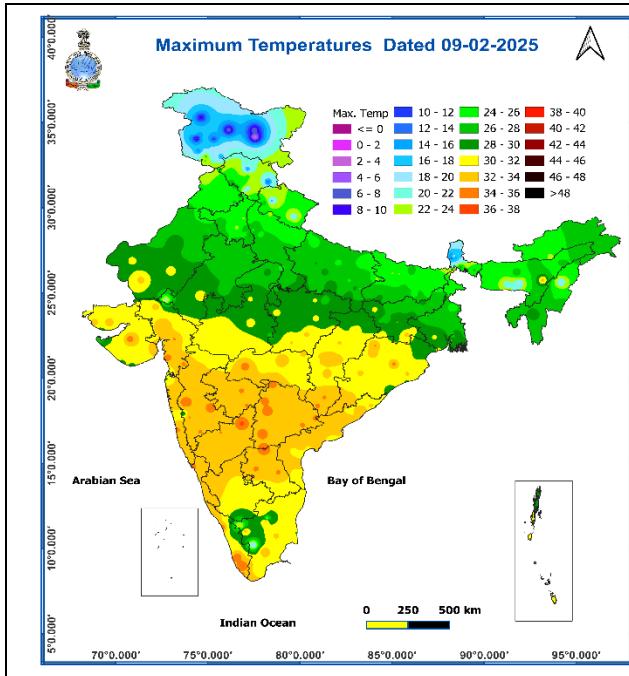


Fig. 2: Departure of Maximum Temperatures

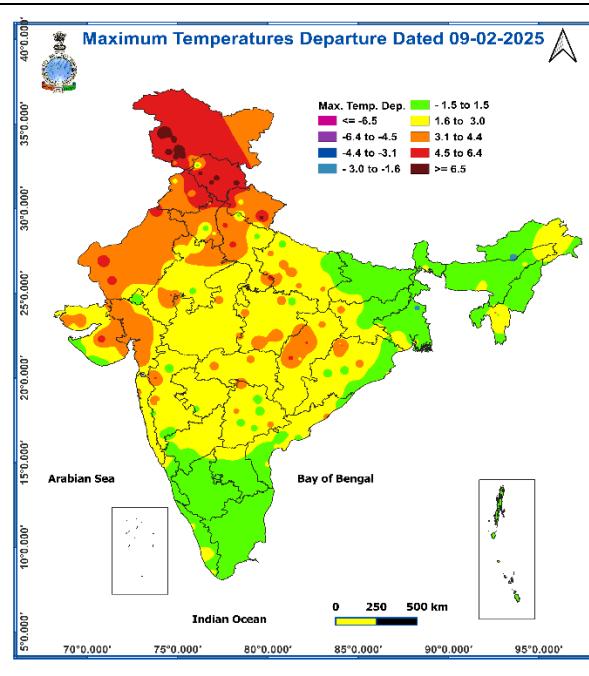


Fig. 3: Minimum Temperatures

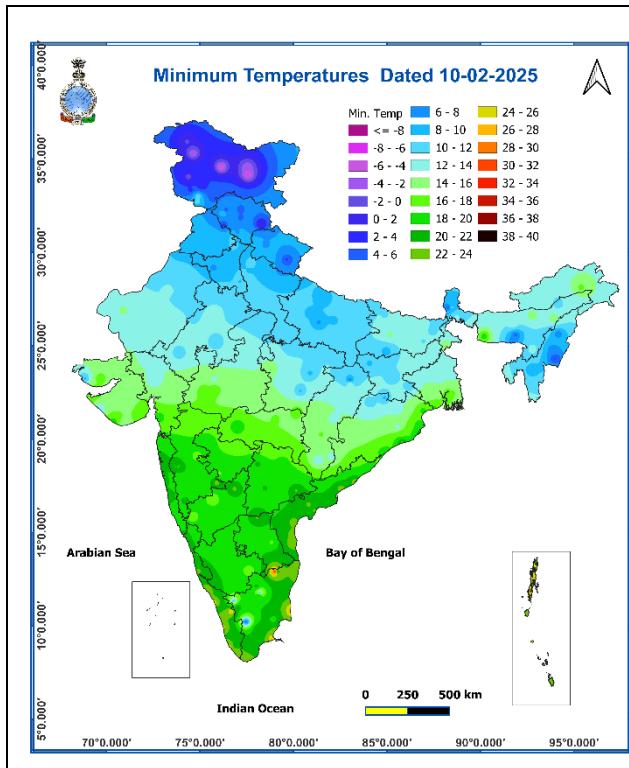
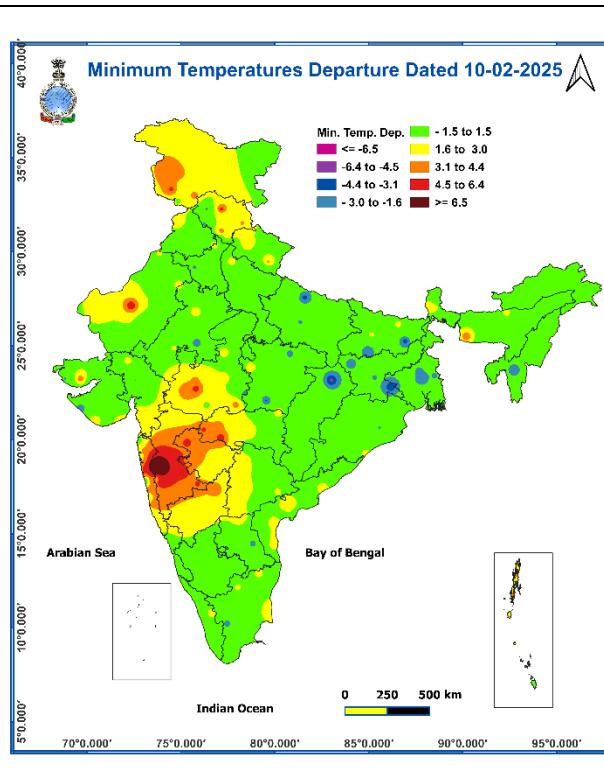


Fig. 4: Departure of Minimum Temperatures



Weather forecast over Delhi/NCR during 10th Feb. to 13th Feb. 2025

Past Weather:

There has been a rise in minimum temperature upto 02°C over Delhi/NCR during the past 24 hours. The Maximum and Minimum temperatures over Delhi are in the range of 25 to 28°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. Mainly clear sky conditions with predominant surface wind from the northwest direction with wind speed reaching 08 to 10 kmph prevailed during daytime and calm wind during night time on 09.02.2025. Mainly smog/mist conditions with wind speed less than 08 kmph southwest direction prevailed over the region in the forenoon today.

Weather Forecast:

10.02.2025: Partly cloudy sky. The predominant surface wind will likely to be from northwest direction with a wind speed of less than 12 kmph till evening. It would decrease thereafter becoming less than 06 kmph from the west direction during the night.

11.02.2025: Mainly clear sky. The predominant surface wind is likely to be from the west direction with a wind speed 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 decrease further becoming less than 08 kmph from the northwest direction during evening and night.

12.02.2025: Mainly clear sky. Strong surface wind (speed 15-25 kmph) likely during the day. The predominant surface wind will likely to be from the northwest direction with a wind speed of less than 10 kmph during morning hours. Smog/mist likely in the morning. The wind speed will gradually increase thereafter becoming 16-18 kmph from the northwest direction during the afternoon. It will decrease becoming less than 10 kmph from northwest direction during evening and night.

13.02.2025: Mainly clear sky. Strong surface wind (speed 20-30 kmph) likely during the day. The predominant surface wind will likely to be from northwest direction with a wind speed of less than 10 kmph during morning hours. Mist likely in the morning. The wind speed will gradually increase thereafter becoming 16-18 kmph from the northwest direction during the afternoon. It will decrease becoming less than 10 kmph from northwest direction during evening and night.

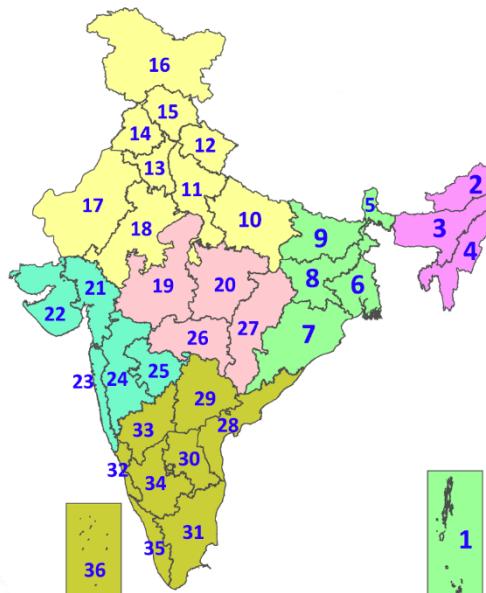
Legends & abbreviations:

- ❖ **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. 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

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