



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 08th April, 2025
Time of Issue: 1330 hours IST

Subject: i. Prevailing heat wave conditions over northwest India will abate from 10th; and over Gujarat and Madhya Pradesh from 11th April onwards.
ii. Rainfall along with thunderstorm & lightning is likely to continue over East & Northeast India during 08th-12th April.

i. Realised weather during past 24 hours till 0830 hours IST of today, the 08th April 2025 (Annexure I):

- ❖ Heatwave conditions at most places with severe heat wave conditions in many pockets prevailed over West Rajasthan; Heatwave conditions at many places with severe heat wave conditions in isolated pockets over East Rajasthan; Heatwave to severe heat wave conditions in isolated pockets of Saurashtra & Kutch, Himachal Pradesh, Punjab. Heatwave conditions in isolated pockets of Haryana-Chandigarh & Delhi, West Madhya Pradesh, Gujarat Region.
- ❖ Thundersquall observed at isolated places over Tripura (Agartala).
- ❖ Thunderstorm accompanied with Squally/Gusty winds prevailed at isolated locations over Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana and Karnataka.

For more details of realised weather, kindly refer [Annexure I](#)

Temperature:

- ❖ Temperature observations during past 24 hours till 0830 hours IST of today are provided in [Annexure II](#).

ii. Weather Systems, Forecast and Warnings (Annexure III & IV):

- ❖ The Low-Pressure Area over southwest & adjoining southeast Bay of Bengal moved northwestwards and lay as a Well-Marked Low-pressure area over southwest and adjoining Westcentral Bay of Bengal at 0830 hrs IST of today, the 08th April, 2025 with the associated cyclonic circulation extends upto middle tropospheric levels. It is likely to move north-northwestwards during next 24 hours over westcentral Bay of Bengal, maintaining the intensity of well marked low. Thereafter, it is likely to recurve north-northeastwards and weaken gradually over central Bay of Bengal during subsequent 24 hours.
- ❖ A trough runs from southeast Uttar Pradesh to North Bangladesh in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over Madhya Maharashtra & neighbourhood and a trough from this cyclonic circulation to south Interior Karnataka in lower tropospheric levels.
- ❖ Under the influence of these systems;
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka on 08th & 09th; East and Northeast India during 08th-12th April.
 - ✓ **Isolated Hailstorm** likely over Bihar on 09th April.

- ✓ **Heavy rainfall** very likely at isolated places over Assam & Meghalaya on 09th & 10th; Arunachal Pradesh on 10th April.
- ❖ A fresh Western Disturbance as a trough in westerlies in middle tropospheric levels runs roughly along Long. 54°E to the north of Lat. 28°N. A trough runs from West Rajasthan to west Vidarbha in lower tropospheric levels. Under the influence of these systems:
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and isolated to scattered rainfall over Himachal Pradesh and Uttarakhand during 09th-11th April and isolated rainfall over plains of Northwest India on 10th April.
 - ✓ **Isolated Hailstorm** likely over Jammu-Kashmir on 09th April.

Temperature Forecast:

- ❖ No significant change in maximum temperatures likely over Northwest India, Gujarat and Maharashtra during next 2 days and fall by 2-4°C during subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over Central India during next 3 days and fall by 2-3°C during subsequent 4 days.

Heat wave, warm night and Hot & Humid weather warning:

- ❖ **Heat wave conditions** very likely at some/many places over West Rajasthan on 08th & 09th April with severe heat wave conditions at isolated pockets on 08th April.
- ❖ **Heat wave conditions** likely at isolated to some pockets over Saurashtra & Kutch, East Rajasthan, Punjab, Haryana Chandigarh & Delhi on 08th & 09th April with severe heat wave conditions at isolated pockets over the region 08th April.
- ❖ **Heat wave conditions** very likely in isolated pockets of Himachal Pradesh on 08th; West Uttar Pradesh, Vidarbha on 08th & 09th; Madhya Pradesh, Gujarat Region during 08th-10th April.
- ❖ **Warm night** conditions very likely in isolated pockets of West Madhya Pradesh during 08th-10th; Rajasthan, Marathawada, Madhya Maharashtra on 08th & 09th and Punjab, Haryana Chandigarh & Delhi on 08th April.
- ❖ **Hot & humid** weather is likely to prevail over Tamilnadu Puducherry & Karaikal, Kerala & Mahe on 08th and Konkan & Goa, Madhya Maharashtra on 08th & 09th April.

iv. Weather conditions and forecast over Delhi/NCR during 08th April to 11th April, 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>

Significant weather reported during past 24 hours till 0830 hours IST of today:

- ❖ **Light/moderate Rainfall** observed at a few places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Lakshadweep; at isolated places over Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana and Karnataka.

Rainfall recorded (in cm):

- ❖ **North Interior Karnataka:** Khanapur (dist Belagavi) 4,
- ❖ **Telangana:** Govindaraopet (dist Mulugu) 3, Tadwai Mlg (dist Mulugu) 3,
- ❖ **Coastal Andhra Pradesh & Yanam:** Amaravati (dist Guntur) 3,
- ❖ **Tamil Nadu:** Puthan Dam (dist Kanyakumari), Perunchani Dam (dist Kanyakumari) 3 each,

Temperature observations during past 24 hours till 0830 hours IST of today:

- Yesterday, the Maximum Temperatures **have risen by 1-2 °C** over Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim; **fallen by 1-2 °C** over Bihar, Gangetic West Bengal, interior Tamil Nadu and no significant change over rest parts of the country.
- Yesterday's **Maximum Temperatures** were in the **range of 42-45°C** at most places over Saurashtra & Kutch, West Rajasthan, Vidarbha; at a few places over Gujarat Region; **36-41°C** at many places over East Rajasthan, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Chhattisgarh, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam; at a few places over interior Tamilnadu and **30-35°C** over remaining parts of country except western Himalayan Region and Arunachal Pradesh where temperature are in the range of **25-29°C**. Yesterday, the highest **maximum temperature of 45.6°C was reported at Barmer (West Rajasthan)** over the country. (Fig.1)
- Yesterday, Maximum Temperatures were **above normal** by 5-9 °C over parts of Rajasthan, Jammu, Kashmir, Ladakh, Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, Gujarat state and 2-4 °C Madhya Pradesh, Uttar Pradesh, Vidarbha, Madhya Maharashtra, Marathwada, Arunachal Pradesh, Assam & Meghalaya and below normal by 1-2 °C over some parts parts of Bihar, Gangetic West Bengal, Tamilnadu Puducherry & Karaikal, Kerala & Mahe and near normal over rest parts of the country. (Fig. 2).

Fig. 1: Maximum Temperatures

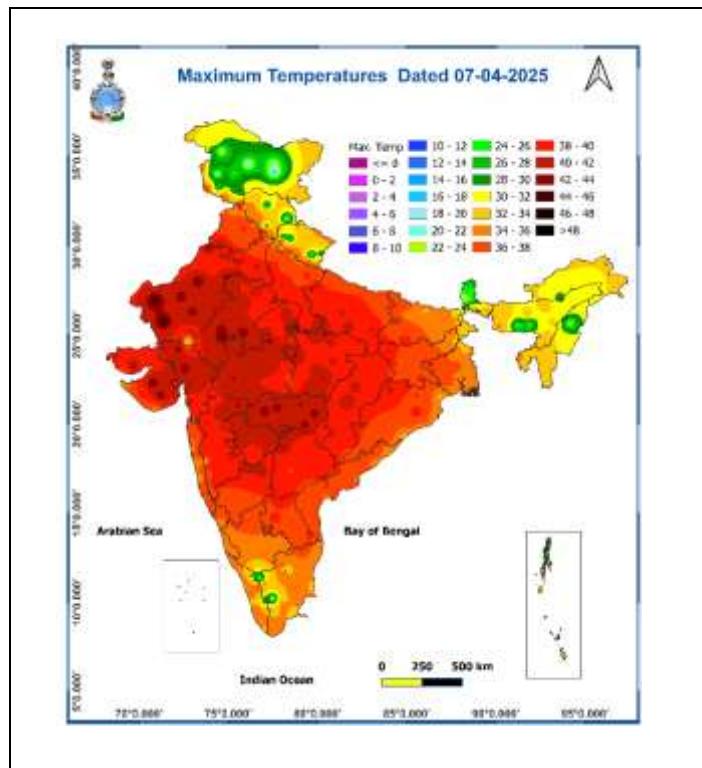
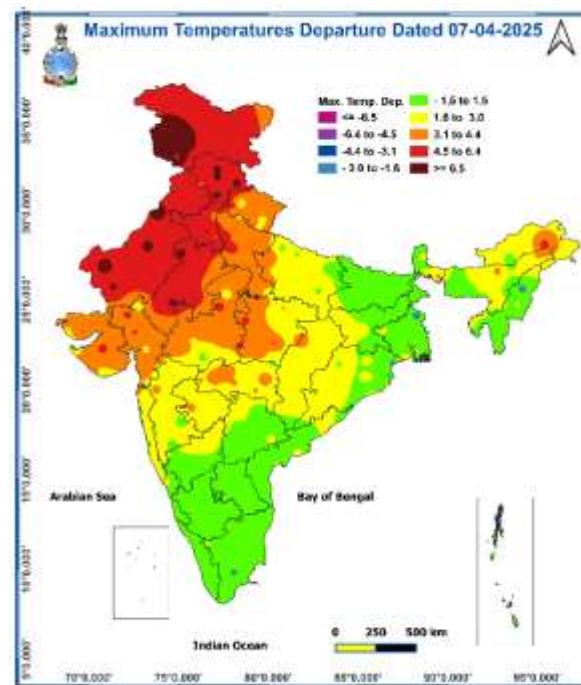
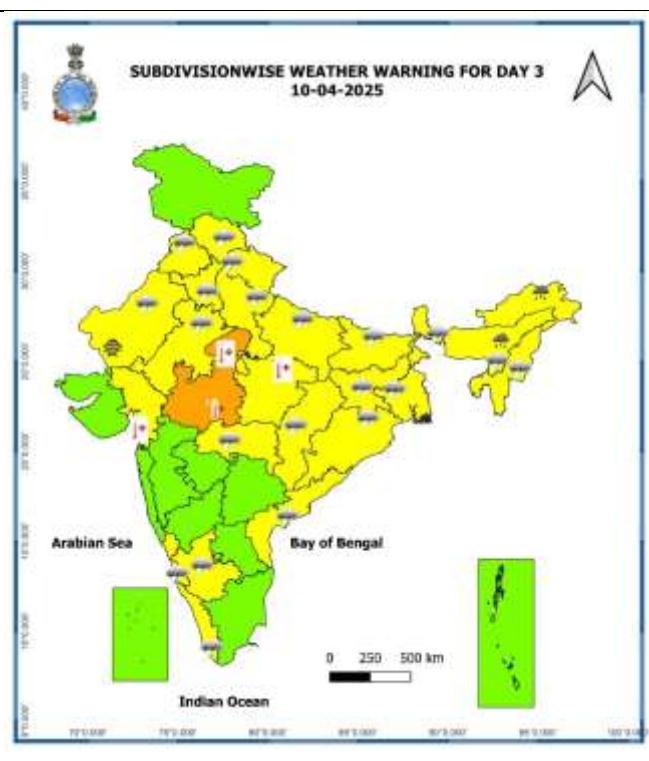
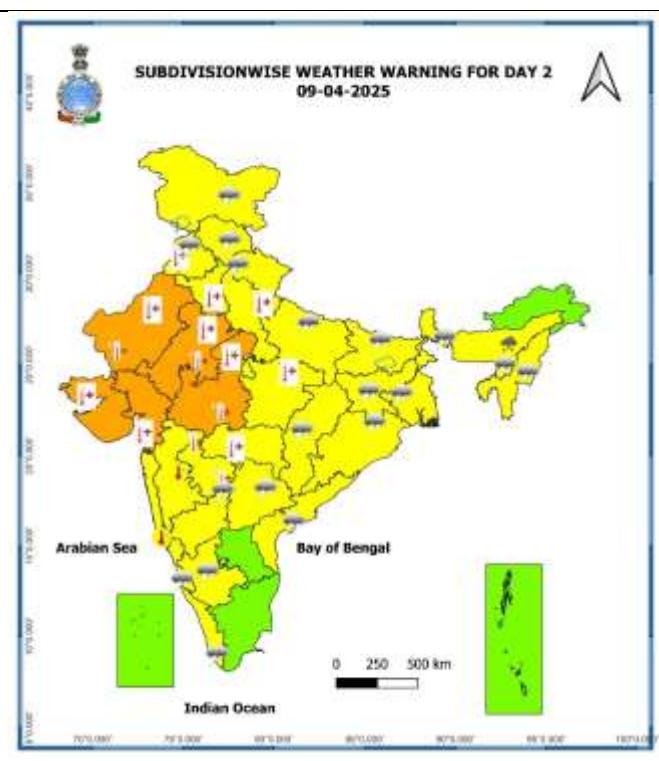
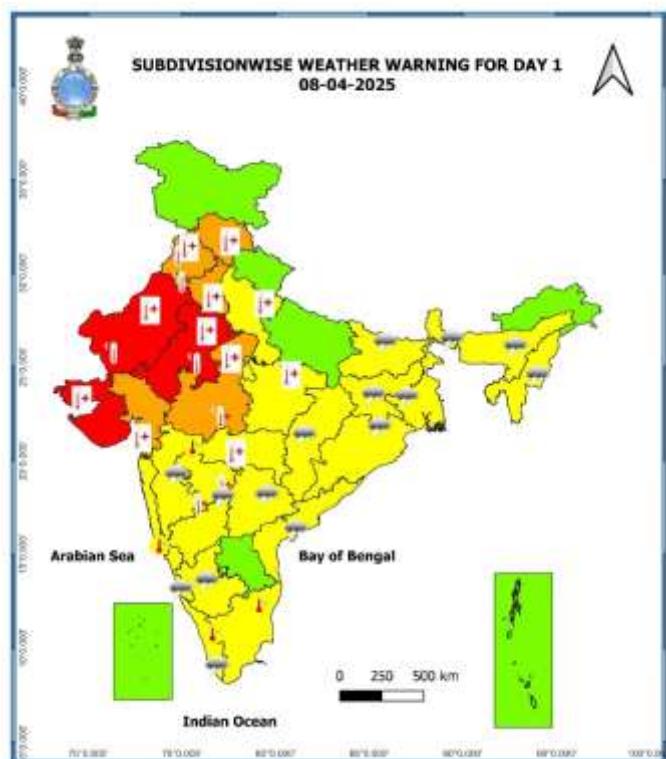


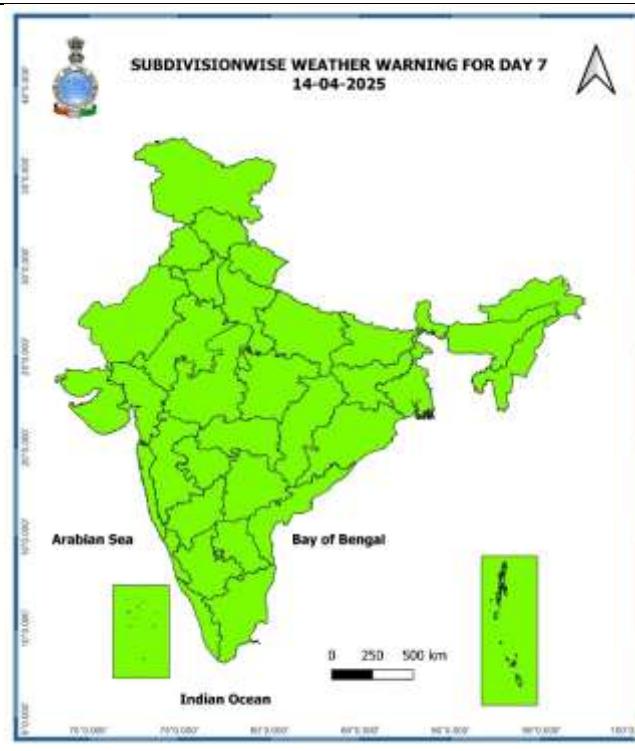
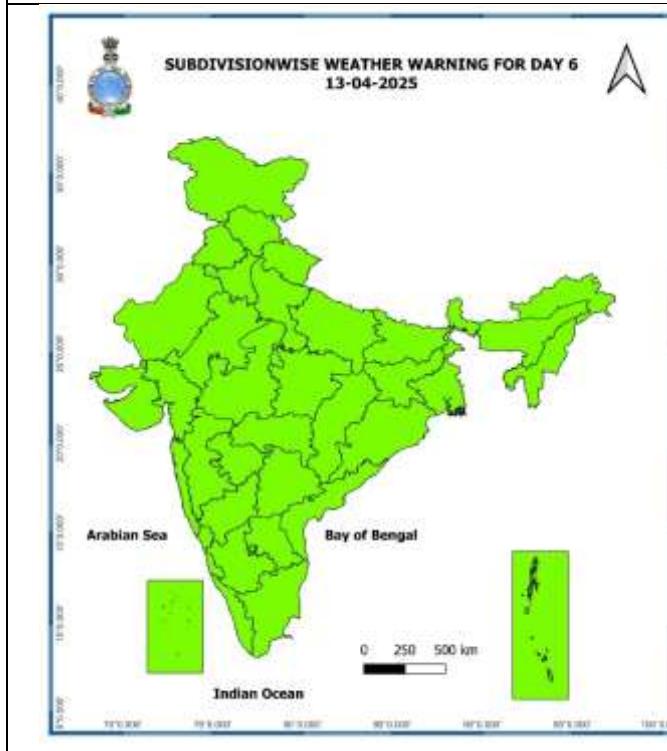
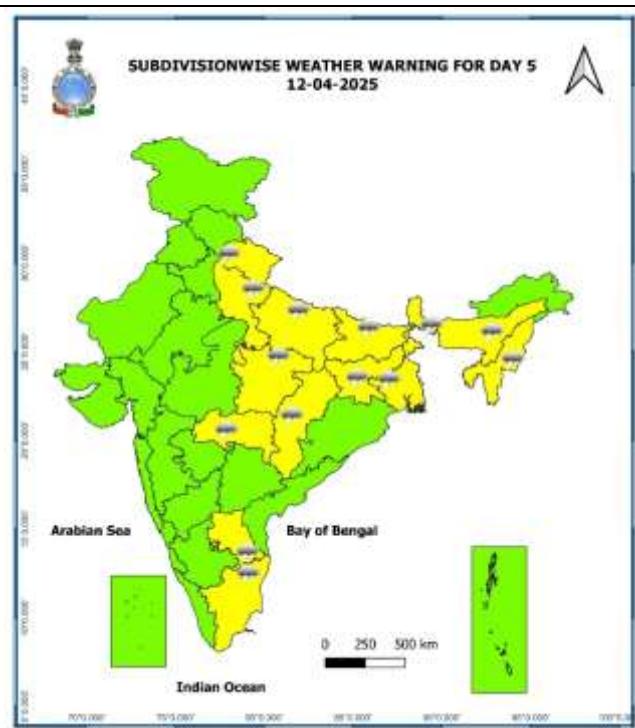
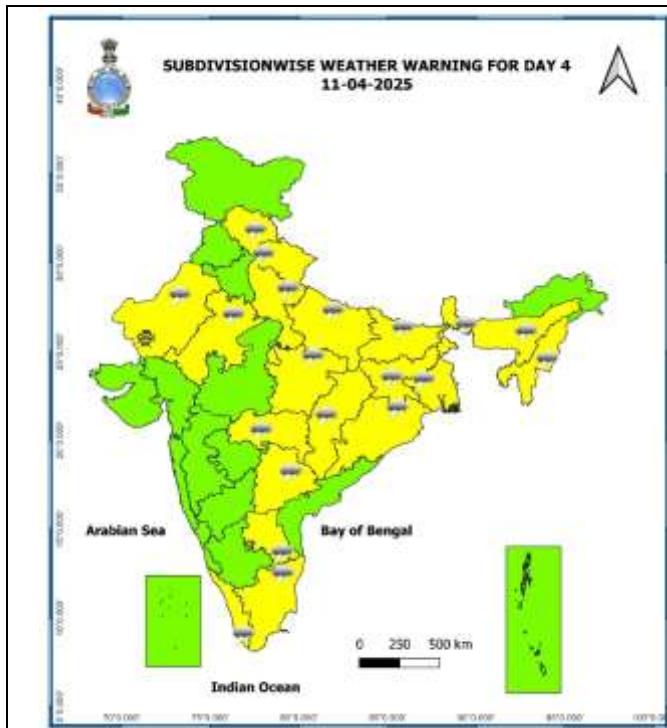
Fig. 2: Departure of Maximum Temperatures



S. No.	Subdivision	7 Days Rainfall Forecast						
		08-Apr	09-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	FWS	FWS	SCT	SCT	SCT
2	ARUNACHAL PRADESH	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
3	ASSAM & MEGHALAYA	SCT	FWS	WS	WS	WS	WS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	FWS	FWS	FWS	FWS	FWS	SCT
6	GANGETIC WEST BENGAL	ISOL	ISOL	SCT	SCT	ISOL	ISOL	SCT
7	ODISHA	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	SCT	SCT	ISOL	SCT	SCT
9	BIHAR	ISOL	SCT	SCT	SCT	SCT	ISOL	ISOL
10	EAST UTTAR PRADESH	ISOL	ISOL	ISOL	SCT	SCT	ISOL	DRY
11	WEST UTTAR PRADESH	DRY	ISOL	ISOL	SCT	ISOL	DRY	DRY
12	UTTARAKHAND	DRY	SCT	FWS	FWS	SCT	DRY	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
14	PUNJAB	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	SCT	SCT	SCT	ISOL	DRY	DRY
16	JAMMU & KASHMIR AND LADAKH	ISOL	FWS	FWS	SCT	ISOL	DRY	DRY
17	WEST RAJASTHAN	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
21	GUJARAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
25	MARATHAWADA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA & MAHE	SCT	SCT	SCT	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	SCT	SCT	SCT	SCT	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>

Weather forecast over Delhi/NCR during 08th to 11th Apr. 2025**Past Weather:**

There has been rise in minimum and maximum temperature upto 02 °C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 39 to 41 °C and 21 to 25 °C respectively. The minimum temperature was above normal upto 05°C and maximum temperature was above normal upto 06 °C at most places. Mainly clear sky conditions with predominant surface wind from the southeast/northeast direction with wind speeds less than 06 to 08 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 14 kmph from the southeast direction prevailed over the region in the forenoon today.

Weather Forecast:

08.04.2025: Mainly clear sky. Heat wave conditions very likely at many places over Delhi. The maximum temperature over Delhi is likely to be in the range of 39 to 41°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 10 kmph till evening. It would increase becoming less than 12 kmph from the southeast direction during the night.

09.04.2025: Mainly clear sky becoming partly cloudy sky from evening. Heat wave conditions very likely at isolated places over Delhi. The maximum and minimum temperatures over Delhi are likely to be in the range of 39 to 41°C and 22 to 24°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 decrease thereafter becoming 08-10 kmph from the southeast direction during the afternoon. It will increase becoming less than 18 kmph from the southeast direction during evening and night.

10.04.2025: Generally cloudy sky. Thunderstorm accompanied with gusty winds (speed 30-40 kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 38 to 40°C and 22 to 24°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 decrease becoming 08-10 kmph from the southeast direction in the afternoon. It will increase becoming less than 20 kmph from the east direction during evening and night.

11.04.2025: Generally cloudy sky. Very light rain/drizzle accompanied with thunderstorm and gusty winds (speed 30 – 40 kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 36 to 38°C and 20 to 22°C respectively. The predominant surface wind will likely be from the east direction with a wind speed of 16-18 kmph during morning hours. The wind speed will gradually decrease becoming 08-10 kmph from the southeast direction in the afternoon. It will increase becoming less than 18 kmph from the southeast direction during evening and night.

Impact expected and action suggested due to Heat wave to severe heat wave conditions likely at isolated to some pockets over Gujarat state, Rajasthan on 08th & 09th and Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi on 08th April.

Red alert Areas

- Very high likelihood of developing heat illness and heat stroke in all ages.
- Extreme care needed for vulnerable people.

Orange alert Areas

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure- keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Yellow alert Areas

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heatwave

- In **Jammu & Kashmir and Bihar**, immediately harvest the matured crops, fruits and vegetables and shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields to avoid the adverse impact of likely hailstorm. Use hail net and hail caps to prevent mechanical damage in orchards due to hailstorms.
- In **Arunachal Pradesh and Meghalaya**, immediately harvest the matured crops, fruits and vegetables and shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Also make provision to drain out excess water from standing crop and vegetable fields.
- In **Himachal Pradesh, Punjab, Haryana, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha and Gujarat State**, apply light and frequent irrigation to standing crops in the evening to protect them from heat waves.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.
- **Livestock / Poultry / Fishery**
- Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also provide clean, hygienic and plenty of drinking water to animals.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

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. कॉकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुदुचेरी 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

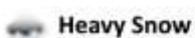
34. South Interior Karnataka

35. Kerala & Mahe

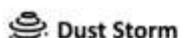
36. Lakshadweep

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

* 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 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)

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