



**Government of India
Ministry of Earth Sciences
India Meteorological Department**



Press Release

Date: 07th April, 2025

Time of Issue: 1315 hours IST

**Subject: i. Severe heat wave conditions likely to continue in West Rajasthan, Saurashtra & Kutch on 07th & 08th; Heatwave conditions likely over Gujarat, Haryana, Chandigarh & Delhi, Punjab, East Rajasthan and Madhya Pradesh during next 4 days.
ii. Rainfall along with thunderstorm & lightning is likely to continue over East & Northeast India during 07th-10th April.**

i. Realised weather during past 24 hours till 0830 hours IST of today, the 07th April 2025 (Annexure I):

- ❖ **Heatwave conditions at many places with severe heat wave conditions in** isolated pockets prevailed over Southwest Rajasthan; **Heatwave to severe heat wave conditions** in many parts of Kutch; isolated pockets of Saurashtra, Gujarat Region, Himachal Pradesh. **Heatwave conditions** at some places prevailed over East Rajasthan, in isolated pockets over Haryana, West Madhya Pradesh.
- ❖ **Heavy to very heavy rainfall** recorded at isolated places over Kerala and **heavy rainfall** at isolated places over Tamil Nadu and Assam & Meghalaya.
- ❖ **Hailstorm** occurred at isolated places over Assam.
- ❖ **Thundersquall** observed at isolated places over Tripura (Agartala).
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** prevailed at isolated locations over Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana and interior 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):

- ❖ Under the influence of an upper air cyclonic circulation over southeast Bay of Bengal & neighbourhood, a Low-Pressure Area has formed over central parts of south Bay of Bengal at 0830 hrs IST of today, the 07th April, 2025. It is likely to move northwestwards over southwest Bay of Bengal till 08th April and thereafter likely to move nearly northwards over westcentral Bay of Bengal during subsequent 48 hours.
- ❖ A trough runs from the above cyclonic circulation over southeast Bay of Bengal to south Tamil Nadu across southwest Bay of Bengal in lower tropospheric levels.
- ❖ Another trough runs from East Bihar to North Telangana in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over northeast Jharkhand and another over east Assam in lower tropospheric level.

- ❖ 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 on 07th & 08th; Karnataka during 07th -09th; East and Northeast India during 07th-11th April.
 - ✓ **Isolated Hailstorm** likely over Assam & Meghalaya, Bihar on 08th and Jharkhand on 09th April.
 - ✓ **Heavy rainfall** very likely at isolated places over Tamil Nadu, Kerala & Mahe on 07th & 08th and over Assam & Meghalaya on 08th April.
- ❖ **A fresh Western Disturbance is likely to affect Western Himalayan region from 08th April, 2025.**
 - ✓ **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:

- ❖ Gradual rise in maximum temperatures by 2-3°C likely over many parts of Northwest India, Maharashtra during next 3 days and fall by 2-4°C during subsequent 2 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over many parts of central India during next 3 days and no significant change during subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over many parts of East India during next 24 hours and fall by 2-3°C during subsequent 4 days and no significant change during subsequent 2 days.
- ❖ No significant change in maximum temperatures likely over Gujarat state 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 likely at isolated to some pockets over Saurashtra & Kutch, East Rajasthan during 07th-09th April with severe heat wave conditions at isolated pockets over Saurashtra & Kutch on 07th & 08th April.
- ❖ Heat wave conditions very likely at some/many places over West Rajasthan during 07th-10th April with severe heat wave conditions at isolated pockets on during 07th-09th April.
- ❖ Heat wave conditions very likely in isolated pockets of Himachal Pradesh, Delhi on 07th & 08th; Haryana, Chandigarh, West Madhya Pradesh, Gujarat Region during 07th-10th; Punjab during 08th - 10th; West Uttar Pradesh, Vidarbha on 08th & 09th; East Madhya Pradesh during 08th-10th April.
- ❖ Warm night conditions very likely in isolated pockets of Rajasthan, Madhya Pradesh during 07th-09th; Saurashtra & Kutch on 07th & 08th April.
- ❖ Hot & humid weather is likely to prevail over coastal areas of Gujarat State during 07th-10th and Konkan & Goa during 07th-09th April.

iv. Weather conditions and forecast over Delhi/NCR during 07th April to 10th April, 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 weather reported during past 24 hours till 0830 hours IST of today:

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

Rainfall recorded (in cm):

- ❖ **Kerala & Mahe:** Panathur Aws (dist Kasargod) 13, Kunnamkulam (dist Thrissur) 7, Kunnamkulam Aws (dist Thrissur) 6, Ponnani (dist Malappuram) 6, Enamakkal (dist Thrissur) 5,
- ❖ **Tamil Nadu:** Perunchani Dam (dist Kanyakumari), Puthan Dam (dist Kanyakumari), Elumalai (dist Madurai) 8 each, Kallikudi (dist Madurai), Aravakurichi (dist Karur) 7 each,
- ❖ **Assam & Meghalaya:** Jowai (dist West Jaintia Hills) 9, Mawsynram (dist East Khasi Hills) 8, Shella (dist East Khasi Hills) 5,

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

- ❖ Yesterday, the Maximum Temperatures **have risen by 2-4 °C** over West Rajasthan, Haryana Chandigarh & Delhi, west Assam & Meghalaya, North Interior Karnataka; **1-3 °C** over Jammu, Kashmir, Ladakh, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Rajasthan, Gujarat, Maharashtra, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gangetic West Bengal, West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Tamilnadu Puducherry & Karaikal; **fallen by 1-3 °C** over east Assam, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim and no significant change over rest parts of the country.
- ❖ Yesterday's **Maximum Temperatures** were in the **range of 41-45°C** at many places over Saurashtra & Kutch, West Rajasthan; at a few places over Gujarat Region, Vidarbha; **36-40°C** at many places over Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Chhattisgarh, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema; at a few places over Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and **30-36°C** over remaining parts of country except western Himalayan Region and Arunachal Pradesh where temperature are in the range of **20-30°C**. Yesterday, the highest **maximum temperature of 45.6°C** was reported at **Barmer (West Rajasthan) and Kandla (Saurashtra & Kutch)** over the country. **(Fig.1)**
- ❖ Yesterday, Maximum Temperatures were **above normal** by 4-7 °C over parts of Gujarat, Rajasthan, Punjab, Haryana, Chandigarh, Jammu, Kashmir, Ladakh, Himachal Pradesh, West Uttarakhand and 2-3 °C Madhya Pradesh, Vidarbha, Madhya Maharashtra, Marathawada, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and below normal by 1-2 °C over parts of Karnataka, Rayalaseema, Tamilnadu Puducherry & Karaikal, Kerala & Mahe and near normal over rest parts of the country. **(Fig. 2).**

Fig. 1: Maximum Temperatures

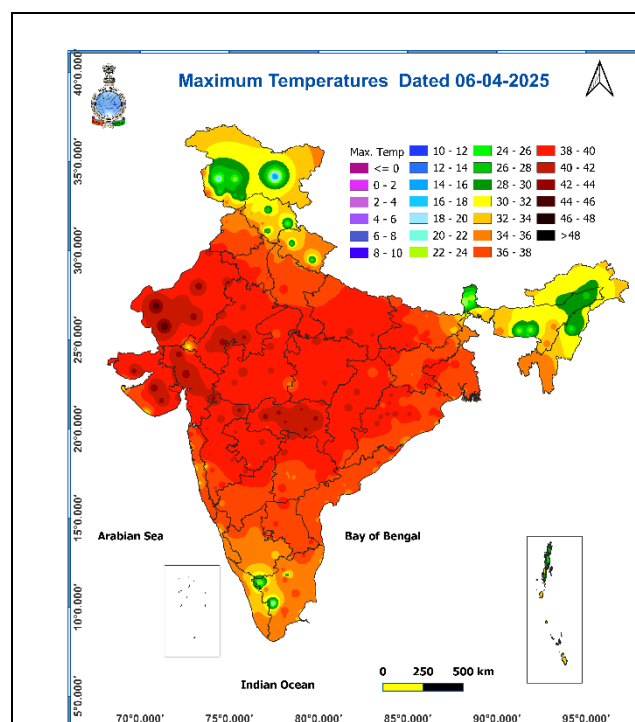
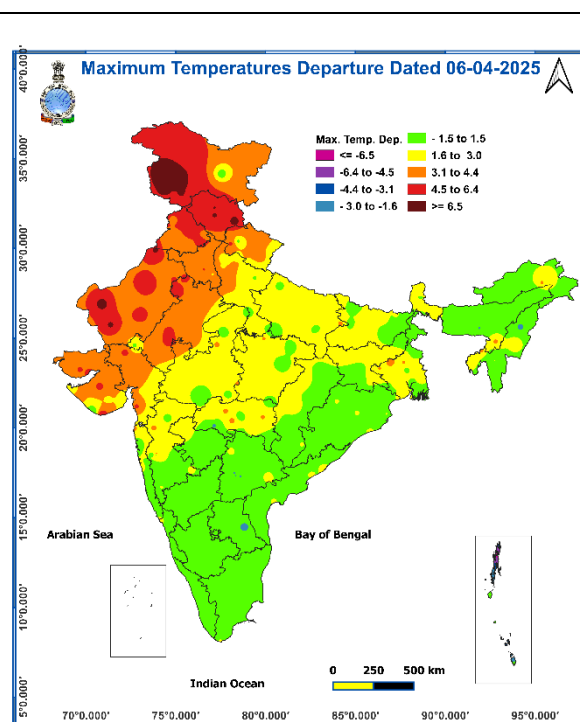
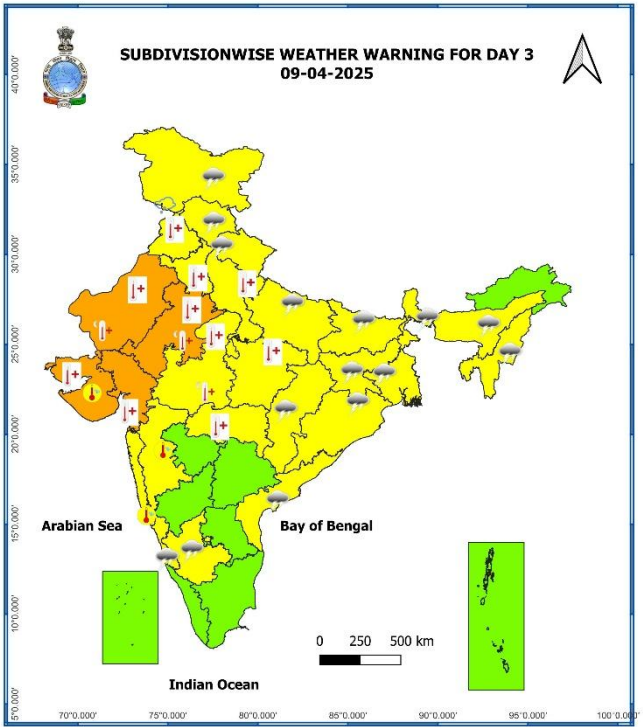
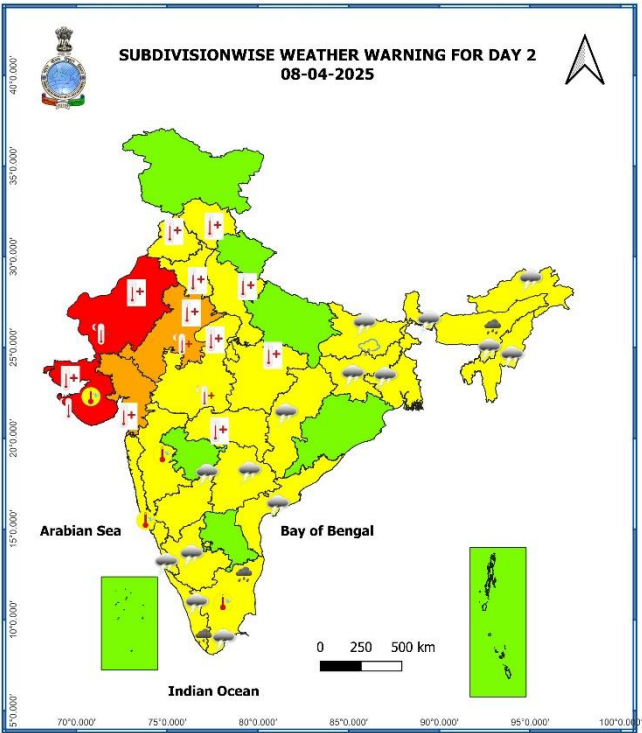
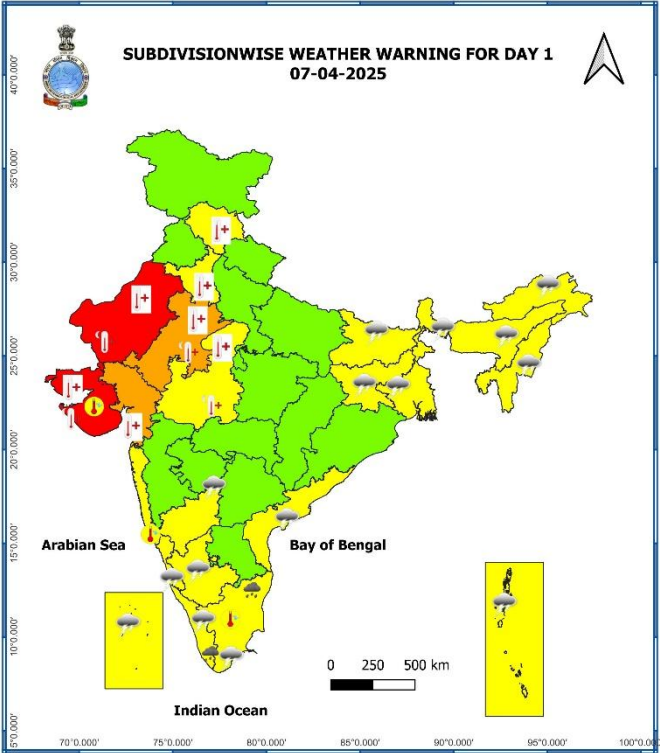


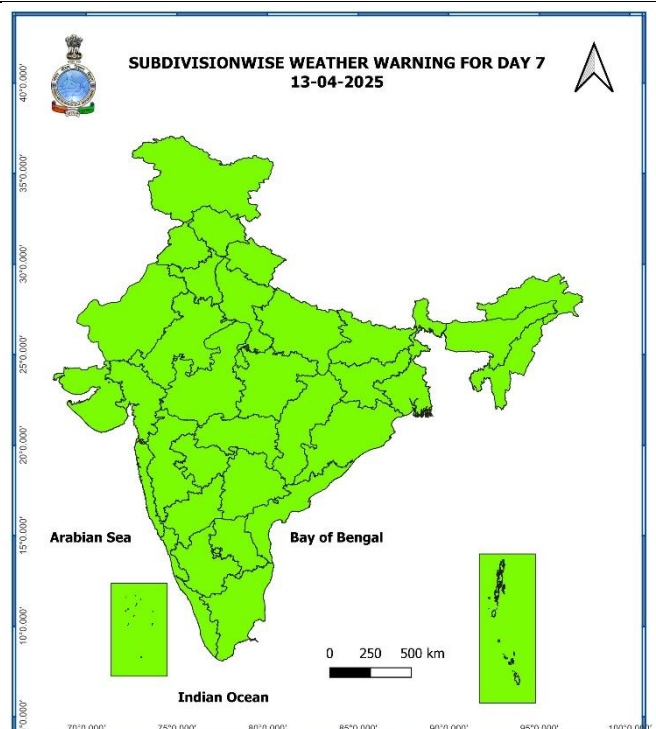
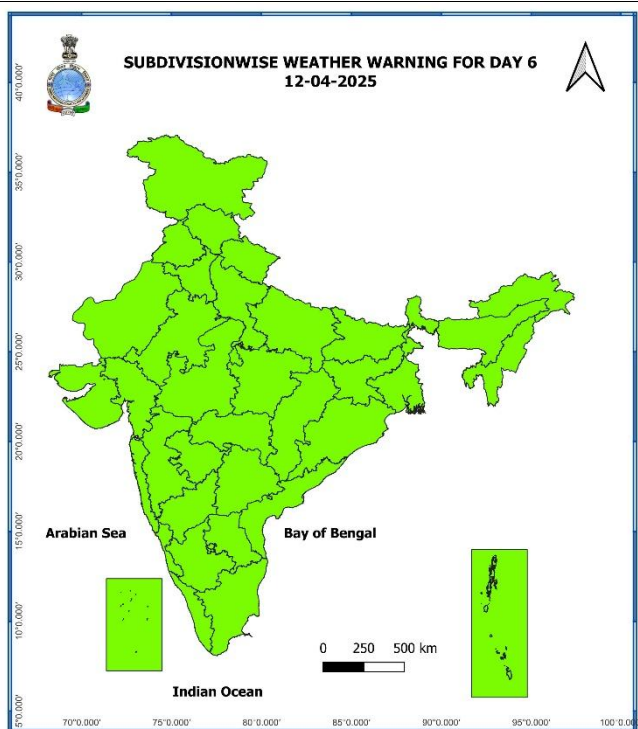
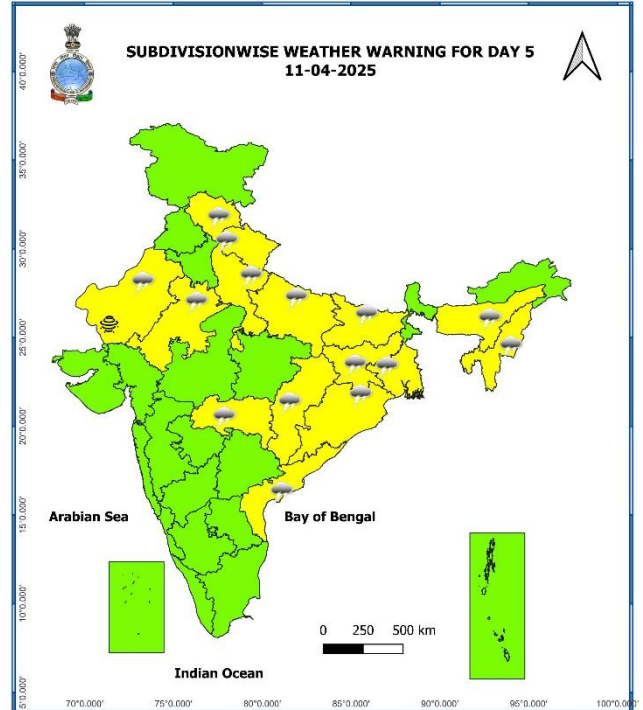
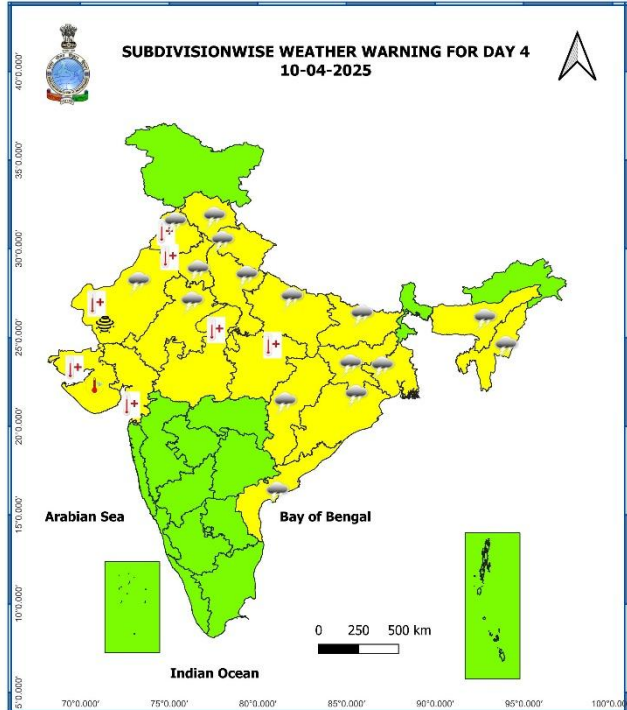
Fig. 2: Departure of Maximum Temperatures



7 Days Rainfall Forecast								
S. No.	Subdivision	07-Apr	08-Apr	09-Apr	10-Apr	11-Apr	12-Apr	13-Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	FWS	WS	FWS	SCT	SCT
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
3	ASSAM & MEGHALAYA	SCT	FWS	FWS	WS	WS	WS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	SCT	SCT	SCT	FWS	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	FWS	FWS	SCT	FWS	FWS
6	GANGETIC WEST BENGAL	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
7	ODISHA	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
9	BIHAR	ISOL	ISOL	SCT	SCT	SCT	SCT	ISOL
10	EAST UTTAR PRADESH	DRY	ISOL	ISOL	SCT	SCT	ISOL	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	ISOL	SCT	ISOL	ISOL	DRY
12	UTTARAKHAND	DRY	ISOL	SCT	SCT	SCT	SCT	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
15	HIMACHAL PRADESH	DRY	ISOL	ISOL	SCT	SCT	ISOL	DRY
16	JAMMU & KASHMIR AND LADAKH	DRY	ISOL	FWS	FWS	SCT	ISOL	DRY
17	WEST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	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	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
27	CHHATTISGARH	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	ISOL	SCT	SCT	ISOL
29	TELANGANA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
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	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA & MAHE	FWS	SCT	SCT	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	FWS	SCT	SCT	SCT	SCT	SCT	SCT

- 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 07th to 10th 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 38 to 39 °C and 19 to 22 °C respectively. The minimum temperature was near normal and maximum temperature was above normal upto 04 °C at most places. Mainly clear sky conditions with predominant surface wind from the west-northwest direction with wind speeds less than 14 to 16 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 08 kmph from the southeast direction prevailed over the region in the forenoon today.

Weather Forecast:

07.04.2025: 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 40 to 42°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.

08.04.2025: Mainly clear sky. Heat wave conditions very likely at most places over Delhi. The maximum and minimum temperatures over Delhi are likely to be in the range of 40 to 42°C and 21 to 23°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 10 kmph from the southeast direction during evening and night.

09.04.2025: Mainly clear sky becoming partly cloudy sky from evening. Heat wave conditions very likely at many places over Delhi. The maximum and minimum temperatures over Delhi are likely to be in the range of 40 to 42°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 northeast direction in the afternoon. It will increase becoming less than 12 kmph from the southeast direction during evening and night.

10.04.2025: Partly cloudy sky. Strong surface winds speed (20 -30 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 east direction with a wind speed of 10-12 kmph during morning hours. The wind speed will gradually increase becoming 18-20 kmph from the southeast direction in the afternoon. It will decrease becoming less than 12 kmph from the southeast direction during evening and night.

Impact expected and action suggested due to

- ✓ Heat wave conditions likely at isolated to some pockets over Saurashtra & Kutch, East Rajasthan during 07th-09th April with severe heat wave conditions at isolated pockets over Saurashtra & Kutch on 07th & 08th April.
- ✓ Heat wave conditions very likely at some/many places over West Rajasthan during 07th-10th April with severe heat wave conditions at isolated pockets on during 07th-09th April.
- ✓ Heat wave conditions very likely in isolated pockets of Himachal Pradesh, Delhi on 07th & 08th; Haryana, Chandigarh, West Madhya Pradesh, Gujarat Region during 07th-10th; Punjab during 08th -10th; West Uttar Pradesh, Vidarbha on 08th & 09th; East Madhya Pradesh during 08th-10th 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.

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over Assam & Meghalaya and Bihar on 08th; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand on 09th April.

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.

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

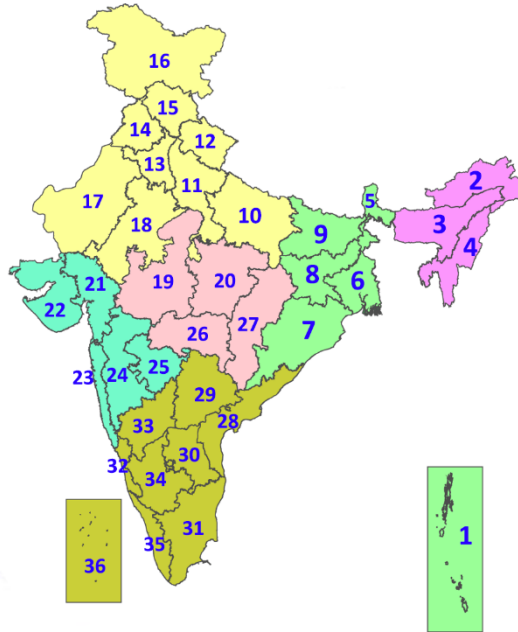
- In Tamilnadu and Kerala, drain out excess water from standing crop and vegetable fields.
- In Meghalaya, immediately harvest the matured crops, fruits and vegetables and shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Also make provision to drain 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 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. 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

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(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.