



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 05th April, 2025
Time of Issue: 1400 hours IST

**Subject: i. Heatwave to severe heat wave likely over Gujarat and Rajasthan during 05th-09th and heat wave over Madhya Pradesh during 07th-09th April and over South Punjab, Haryana and adjoining west Uttar Pradesh on 07th & 08th April.
ii. A fresh spell of rainfall along with thunderstorm & lightning is likely over East India during 07th-09th April.**

i. Realised weather during past 24 hours till 0830 hours IST of today, the 05th April 2025 (Annexure I):

- ❖ **Thunderstorm accompanied with Squally/Gusty winds** prevailed at isolated locations over Chhattisgarh, Rayalaseema, Madhya Maharashtra, North Interior Karnataka, Tamilnadu and Kerala.
 - ❖ **Heavy to very heavy rainfall** occurred at isolated places over Tamil Nadu; **heavy rainfall** at isolated places over South Interior Karnataka, Kerala and Arunachal Pradesh.
 - ❖ **Heatwave to severe heatwave conditions** prevailed at isolated pockets over Saurashtra & Kutch.
- 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):

- ❖ An upper air Cyclonic Circulation lay over northeast Assam & neighbourhood in the lower tropospheric level.
- ❖ A cyclonic circulation lies over southeast Bay of Bengal & neighbourhood in lower tropospheric level.
- ❖ A north-south trough runs from north Madhya Maharashtra to north Tamil Nadu across Interior Karnataka in lower tropospheric level.
- ❖ Under the influence of these systems and confluence of moist winds from Arabian sea and Bay of Bengal in lower tropospheric levels;
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Kerala & Mahe, Karnatak, Andhra Pradesh, Tamil Nadu on 05th & 06th; Andaman & Nicobar Islands on 05th & 06th; Northeast India during 05th- 09th and Bihar, Odisha, West Bengal and Jharkhand during 07th-09th April.
 - ✓ **Isolated Hailstorm** likely over Assam & Meghalaya on 05th & 06th April and Bihar on 8th April.
 - ✓ **Heavy rainfall** very likely at isolated places over Kerala & Mahe, Tamil Nadu on 05th & 06th; South Interior Karnataka on 05th; Assam & Meghalaya and Andaman & Nicobar Islands on 06th 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 30-40 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-

Baltistan-Muzaffarabad and isolated to scattered rainfall over Himachal Pradesh and Uttarakhand during 08th-11th April.

- ✓ **Isolated Hailstorm** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 09th April.

Temperature Forecast:

- ❖ Gradual rise in maximum temperatures by 3-5°C likely over many parts of Northwest India during 05th-08th and fall by 2-3°C during 09th-10th April.
- ❖ Gradual rise in maximum temperatures by 3-5°C likely over many parts of central India during 05th-07th and no significant change during 08th-11th April.
- ❖ Gradual rise in maximum temperatures by 3-4°C likely over Maharashtra & south peninsular India during 05th-11th April.
- ❖ Rise in maximum temperatures by about 2°C likely over Gujarat during 05th-06th and no significant change during 07th-11th April.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over many parts of east India (except Bihar) during 05th-07th and no significant change during 08th-11th April.
- ❖ No significant change in maximum temperatures likely over rest parts of the country during 05th-11th April.

Heat wave and Hot & Humid weather warning:

- ❖ **Heat Wave to severe heat wave conditions very likely to continue to prevail at isolated to few pockets of Saurashtra & Kutch during 05th-09th; over West Rajasthan during 06th-09th and East Rajasthan on 07th April.**
- ❖ **Heat wave conditions very likely in isolated pockets of Rajasthan during 05th-10th; West Uttar Pradesh, south Haryana, Delhi, Punjab on 07th-08th; Himachal Pradesh during 05th-07th; Gujarat Region during 06th-09th; West Madhya Pradesh during 07th-10th, East Madhya Pradesh on 08th & 09th and Vidarbha on 09th & 10th April.**
- ❖ **Hot & humid weather is likely over Gujarat state during 05th-10th and over Konkan & Goa during 05th-09th April, 2025.**

iv. Weather conditions and forecast over Delhi/NCR during 05th April to 08th 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 most places over; at many places over Andaman & Nicobar Islands; at few places over Tamilnadu Puducherry & Karaikal; at isolated places over East Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, East Madhya Pradesh, Jharkhand and Odisha.
- ❖ **Thunderstorm with lightning** reported at isolated places over Konkan & Goa, Madhya Maharashtra, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Interior Karnataka.

Rainfall recorded (in cm):

- ❖ **Tamil Nadu:** Kozhiporvilai (dist Kanyakumari) 19, Gobichettipalayam (dist Erode), Tiruppur_PWD (dist Tiruppur) 15 each, DC Office Tiruppur (dist Tiruppur), Adayamadai (dist Kanyakumari), Pechiparai (dist Kanyakumari) 13 each, Uthukuli (dist Tiruppur) 12, Tiruppur North (dist Tiruppur) 11, Colachel (dist Kanyakumari), Elanthakuttai Medu (dist Erode), Tiruppur South (dist Tiruppur) 10 each, Kavundapadi (dist Erode), Kil Kotagiri Estate (dist The Nilgiris), Sothuparai (dist Theni) 9 each, Nambiyur (dist Erode), Coimbatore AP (dist Coimbatore), Suler (dist Coimbatore) 8 each, Annur (dist Coimbatore), Avinasi (dist Tiruppur), Eraniel (dist Kanyakumari), TNAU Coimbatore (dist Coimbatore), Oothu (dist Tirunelveli), Natham AWS (dist Dindigul), Rameswaram (dist Ramanathapuram), Ramanadhi Dam Section (dist Tenkasi), Coimbatore_AMFU AWS (dist Coimbatore) 7 each
- ❖ **Kerala & Mahe:** Konni Arg (dist Pathanamthitta) 7, Vadakara (dist Kozhikode) 6, Alathur (dist Palakkad) 6, Malampuzha Dam Aws (dist Palakkad) 6,
- ❖ **South Interior Karnataka:** Begur (dist Chamarajanagar) 9, Krishnarajasagara (dist Mandya) 8, Gundlupet (dist Chamarajanagar) 7,
- ❖ **Arunachal Pradesh:** Tuting (dist Upper Siang) 7, Tuting_Aws (dist Upper Siang) 4

Squally winds/ Gusty winds reported (in knots, hrs IST):

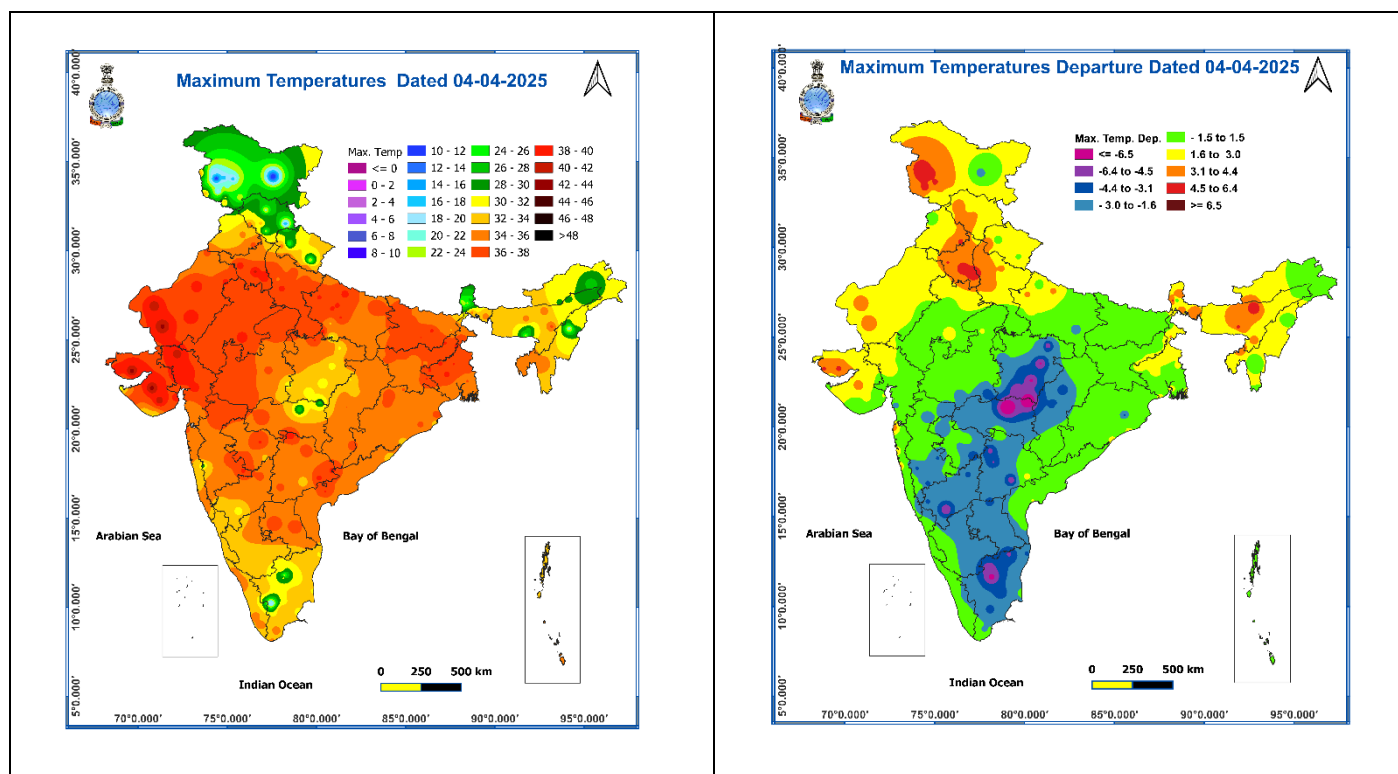
- ❖ **North Interior Karnataka:** Gadag(20,2030)
- ❖ **Madhya Maharashtra:** Karjat(25,1700), Ins Shivaji_Lonavala(26,1615), Talegaon(26, 1700), Lavasa(21,1630), Dapodi(21,1745)
- ❖ **Rayalaseema:** Cs_Puram(20,1730),
- ❖ **Chhattisgarh:** Koriya(20kts,1445) , Kanker(20kts, 1015)
- ❖ **Tamil Nadu:** Kovilpatti_Amfu(22, 1500)
- ❖ **Kerala:** Karapuzha(28,1830),

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

- ❖ Yesterday, Maximum Temperatures showed **rising tendency** during past 24 hours by 2-4°C over Jammu, Vidarbha, East Madhya Pradesh, south Madhya Maharashtra, Telangana, Chhattisgarh; **falling tendency** by 2-4°C at many places over Gangetic West Bengal, Tamilnadu Puducherry & Karaikal, Kerala & Mahe and no significant change over the rest parts of the country.
- ❖ Yesterday's **Maximum Temperatures** were in the range of 40-44°C over some parts of Saurashtra & Kutch, at isolated places over southwest Rajasthan, north Gujarat Region; 36-39°C in many parts of Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Gangetic West Bengal, Madhya Pradesh, Chhattisgarh, east Rajasthan, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Maharashtra; 32-35 °C over Punjab, west Assam, Odisha, Coastal Andhra Pradesh & Yanam, Karnataka and 20-25 °C over Western Himalayan Region. Yesterday, the highest maximum temperature of **44.5°C was reported at Bhuj (Saurashtra & Kutch)** over the country. **(Fig.1)**
- ❖ Yesterday, Maximum Temperatures were **above normal by 4-6°C** over some parts of Saurashtra & Kutch, Odisha; **by 2-4°C** over Punjab, south Haryana, Delhi, Rajasthan, Gujarat region, Uttar Pradesh, West Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **below normal by 2-4°C** over Vidarbha, Telangana, Maharashtra, Rayalaseema, Karnataka, Tamilnadu Puducherry & Karaikal and near normal of rest parts of the country. **(Fig. 2).**

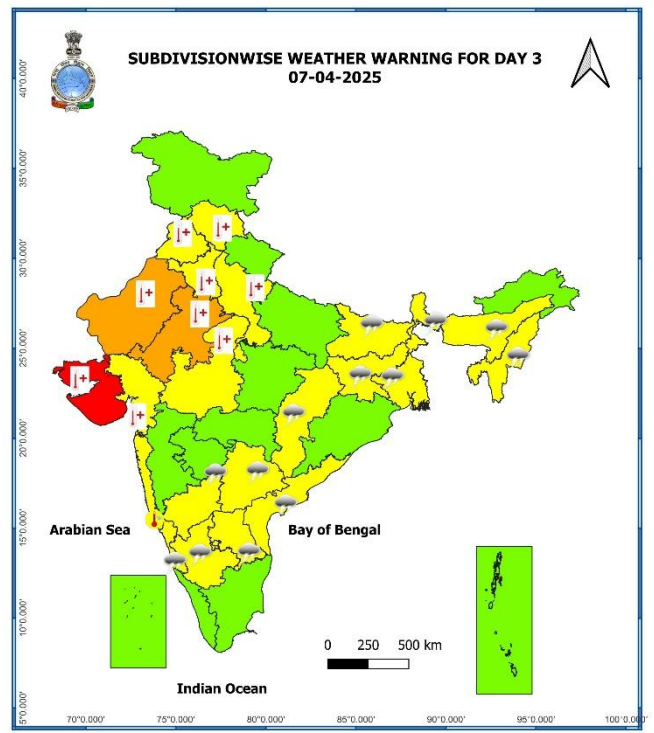
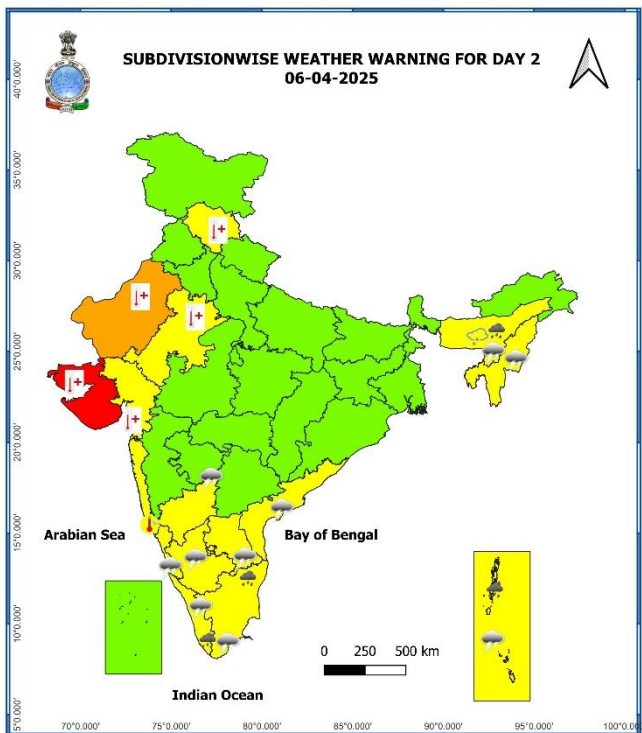
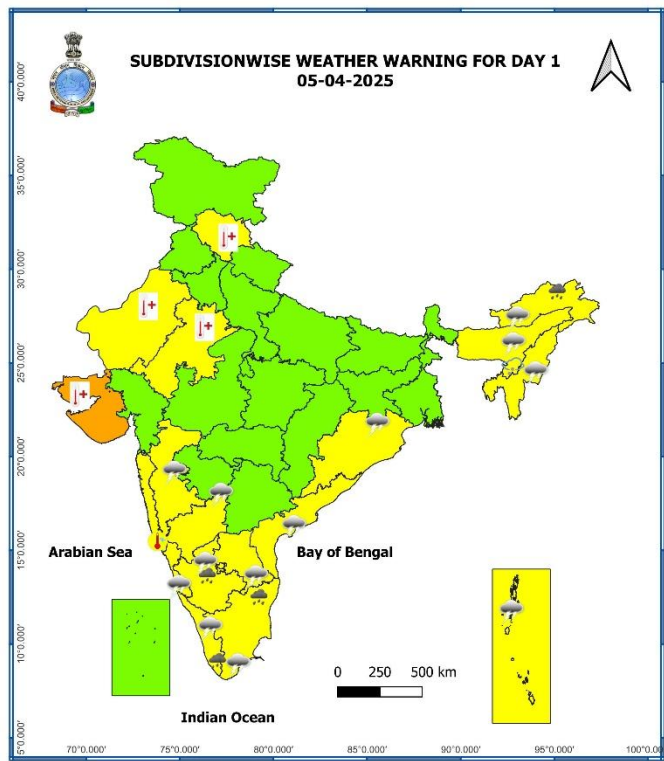
Fig. 1: Maximum Temperatures

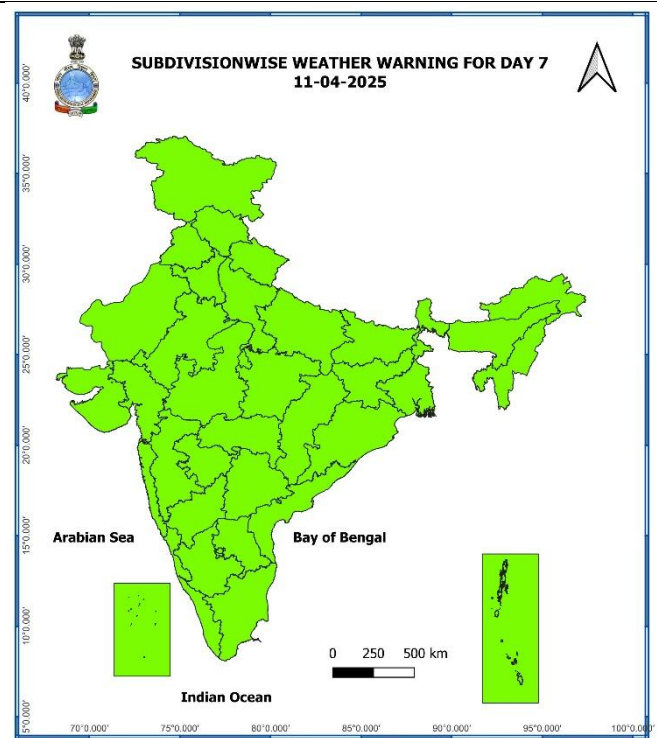
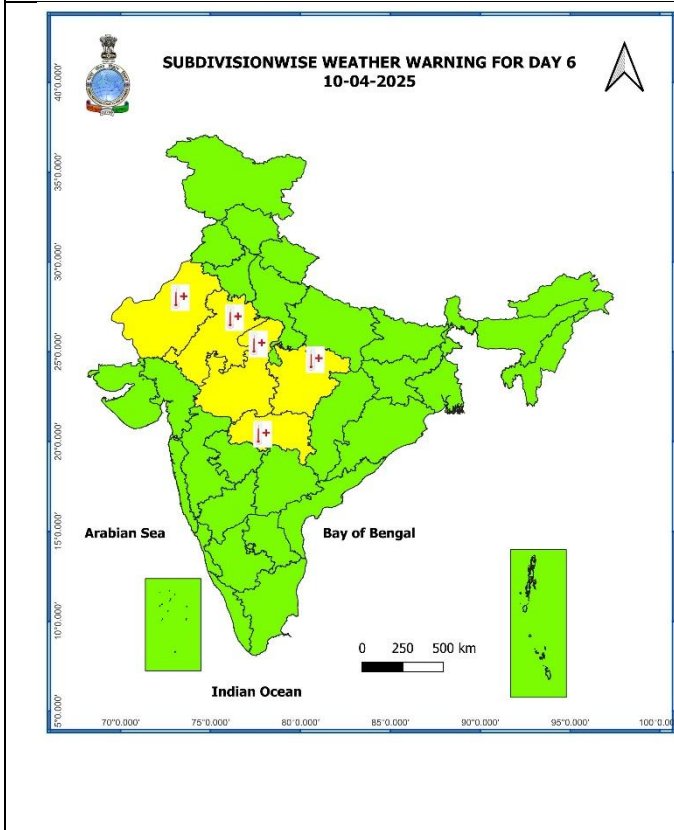
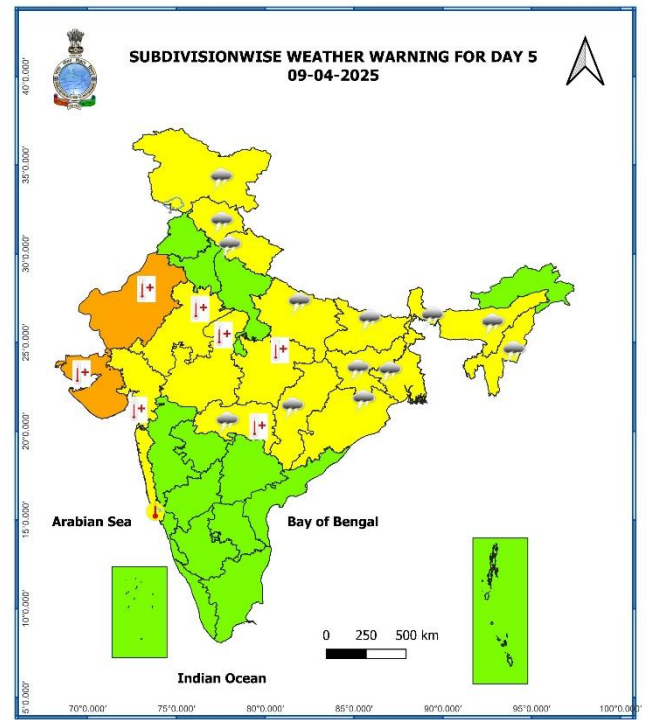
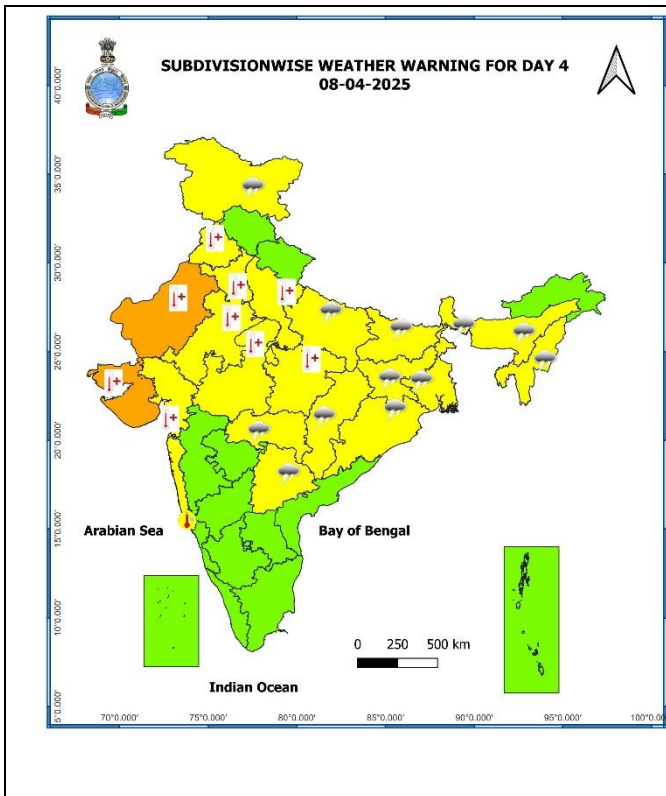
Fig. 2: Departure of Maximum Temperatures



| 7 Days Rainfall Forecast | | | | | | | | |
|--------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| S. No. | Subdivision | 03-Apr | 04-Apr | 05-Apr | 06-Apr | 07-Apr | 08-Apr | 09-Apr |
| | | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 |
| 1 | ANDAMAN & NICOBAR ISLANDS | WS | WS | WS | FWS | FWS | SCT | SCT |
| 2 | ARUNACHAL PRADESH | SCT | ISOL | ISOL | ISOL | ISOL | ISOL | SCT |
| 3 | ASSAM & MEGHALAYA | ISOL | SCT | FWS | SCT | SCT | FWS | WS |
| 4 | NAGALAND, MANIPUR, MIZORAM & TRIPURA | ISOL | SCT | FWS | SCT | SCT | ISOL | SCT |
| 5 | SUB-HIMALAYAN WEST BENGAL & SIKKIM | ISOL | ISOL | ISOL | SCT | SCT | FWS | FWS |
| 6 | GANGETIC WEST BENGAL | ISOL | DRY | DRY | SCT | ISOL | ISOL | SCT |
| 7 | ODISHA | ISOL | ISOL | DRY | ISOL | ISOL | ISOL | ISOL |
| 8 | JHARKHAND | ISOL | DRY | DRY | ISOL | ISOL | ISOL | SCT |
| 9 | BIHAR | DRY | DRY | DRY | ISOL | ISOL | ISOL | ISOL |
| 10 | EAST UTTAR PRADESH | ISOL | DRY | DRY | DRY | ISOL | ISOL | ISOL |
| 11 | WEST UTTAR PRADESH | DRY | DRY | DRY | DRY | DRY | ISOL | ISOL |
| 12 | UTTARAKHAND | DRY | DRY | DRY | DRY | ISOL | ISOL | SCT |
| 13 | HARYANA CHANDIGARH & DELHI | DRY | DRY | DRY | DRY | DRY | ISOL | ISOL |
| 14 | PUNJAB | DRY | DRY | DRY | DRY | DRY | ISOL | ISOL |
| 15 | HIMACHAL PRADESH | DRY | DRY | DRY | DRY | ISOL | SCT | ISOL |
| 16 | JAMMU & KASHMIR AND LADAKH | DRY | DRY | DRY | DRY | SCT | FWS | SCT |
| 17 | WEST RAJASTHAN | DRY | DRY | DRY | DRY | DRY | DRY | DRY |
| 18 | EAST RAJASTHAN | DRY | DRY | DRY | DRY | DRY | DRY | DRY |
| 19 | WEST MADHYA PRADESH | ISOL | DRY | DRY | DRY | DRY | DRY | DRY |
| 20 | EAST MADHYA PRADESH | ISOL | 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 | ISOL | ISOL | ISOL | DRY | ISOL | ISOL | ISOL |
| 24 | MADHYA MAHARASHTRA | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL |
| 25 | MARATHAWADA | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL |
| 26 | VIDARBHA | ISOL | DRY | DRY | DRY | ISOL | ISOL | ISOL |
| 27 | CHHATTISGARH | DRY | DRY | DRY | ISOL | ISOL | ISOL | ISOL |
| 28 | COASTAL ANDHRA PRADESH & YANAM | SCT | SCT | ISOL | ISOL | ISOL | ISOL | ISOL |
| 29 | TELANGANA | ISOL | DRY | DRY | ISOL | ISOL | ISOL | ISOL |
| 30 | RAYALASEEMA | FWS | SCT | ISOL | ISOL | ISOL | ISOL | ISOL |
| 31 | TAMILNADU PUDUCHERRY & KARAIKAL | SCT | SCT | ISOL | ISOL | ISOL | ISOL | ISOL |
| 32 | COASTAL KARNATAKA | FWS | SCT | SCT | ISOL | ISOL | SCT | SCT |
| 33 | NORTH INTERIOR KARNATAKA | ISOL | ISOL | ISOL | ISOL | ISOL | SCT | ISOL |
| 34 | SOUTH INTERIOR KARNATAKA | FWS | SCT | ISOL | ISOL | ISOL | SCT | SCT |
| 35 | KERALA & MAHE | WS | WS | FWS | SCT | SCT | SCT | SCT |
| 36 | LAKSHADWEEP | SCT | 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 05th to 08th Apr. 2025**Past Weather:**

There has been rise in minimum temperature upto 01°C and fall in maximum temperature upto 01°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 37 to 39 °C and 18 to 20°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 northwest direction with wind speeds less than 16 to 18 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 16 kmph from the west-northwest direction prevailed over the region in the forenoon today.

Weather Forecast:

05.04.2025: Mainly clear sky. Surface winds (speed 10-20 kmph) occasionally gusting to 30 kmph during the day time. The maximum temperature over Delhi is likely to be in the range of 35 to 37°C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 20 kmph till evening. It would decrease becoming less than 10 kmph from the northwest direction during the night.

06.04.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 38 to 40°C and 19 to 21°C respectively. The predominant surface wind will likely be from the northwest direction with a wind speed of 04-06 kmph during morning hours. The wind speed will gradually increase thereafter becoming 08-10 kmph from the southwest direction during the afternoon. It will decrease becoming less than 06 kmph from the southeast direction during evening and night.

07.04.2025: 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 20 to 22°C respectively. The predominant surface wind will likely be from the southeast direction with a wind speed of 08-10 kmph during morning hours. The wind speed will gradually decrease becoming 04-06 kmph from the southeast direction in the afternoon. It will increase becoming less than 10 kmph from the southeast direction during evening and 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 08-10 kmph during morning hours. The wind speed will gradually decrease becoming 04-06 kmph from the east direction in the afternoon. It will increase upto 10 kmph from the southeast direction during evening and night.

❖ **Impact expected and action suggested due to**

- ✓ Heat Wave to severe heat wave conditions very likely to continue to prevail at isolated/some pockets of Saurashtra & Kutch during 05th-09th; over West Rajasthan during 06th-09th and East Rajasthan on 07th April.
- ✓ Heat wave conditions very likely in isolated pockets of Rajasthan during 05th-10th; West Uttar Pradesh, south Haryana, Delhi, Punjab on 07th-08th; Himachal Pradesh during 05th-07th; Gujarat Region during 06th-09th; West Madhya Pradesh during 07th-10th, East Madhya Pradesh on 08th & 09th and Vidarbha on 09th & 10th April.

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 on 05th & 06th and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 09th April, 2025.

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, Kerala, South Interior Karnataka** and **Arunachal Pradesh** drain out excess water from standing crop and vegetable fields.
- In **Andaman & Nicobar Islands** and **Assam & 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 **Assam** and **Meghalaya**, use hail net and hail caps to prevent mechanical damage in orchards due to hailstorms.
- In **Punjab, Haryana, West Uttar Pradesh, Rajasthan, Himachal Pradesh, Gujarat State and Madhya Pradesh**, 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

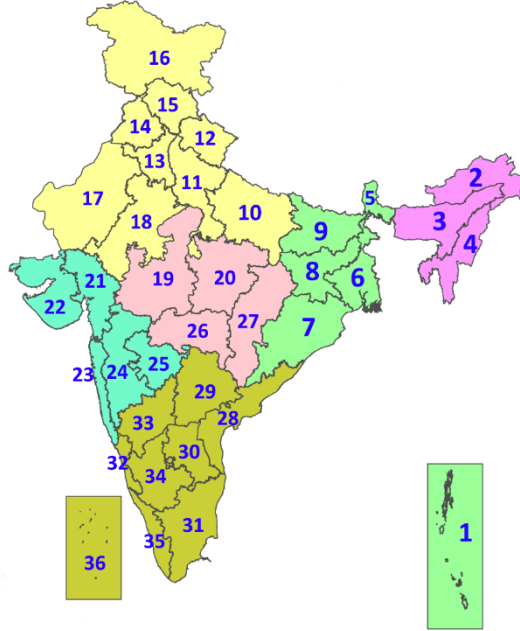
- Keep the animals inside the shed during heavy rainfall/hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also provide clean, hygienic and plenty of 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. 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 Storm: 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.