



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 12th April, 2025

Time of Issue: 1345 hours IST

Subject: i) A fresh spell of heat wave likely to commence over parts of Northwest India and over Gujarat from 15th April.
ii) Thunderstorm with lightning, gusty/squally winds and hailstorm likely to continue over Uttarakhand, Uttar Pradesh and Madhya Pradesh on 12th April.
iii) Rainfall along with thunderstorm & lightning and gusty/squally winds is likely to continue over East & Northeast India during next 4-5 days.

i. Realised weather during past 24 hours till 0830 hours IST of today, the 12th April 2025 (Annexure I):

- ❖ **Thunderstorm** accompanied with Squally/Gusty winds prevailed at isolated locations over Haryana-Chandigarh-Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Jharkhand, Bihar, Gangetic West Bengal, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka, North Interior Karnataka and Kerala & Mahe.
- ❖ **Hailstorm** occurred at isolated places over Uttarakhand, Himachal Pradesh, Haryana, West Madhya Pradesh, Rayalaseema and Jharkhand.
- ❖ **Heavy rainfall** recorded at isolated places over Tamil Nadu and Kerala.
- ❖ **Duststorm** recorded at isolated places over Haryana, Delhi, Uttar Pradesh and Rajasthan.

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 **Western Disturbance** seen as a cyclonic circulation over Kashmir valley & neighbourhood in middle tropospheric levels. **An upper air cyclonic circulation** lies over northeast Madhya Pradesh and a trough runs from this cyclonic circulation to Gangetic West Bengal and another trough from this cyclonic circulation to northeast Telangana in lower tropospheric levels.
- ❖ **An Upper air cyclonic circulations** also lie over northeast Assam & another over north Bangladesh and a trough runs from central Assam to Westcentral Bay of Bengal 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 Uttarakhand and Himachal Pradesh and isolated light rainfall over plains of Northwest India on 12th April.
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Northeast and adjoining East India during next 7 days.
 - ✓ Isolated to scattered rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over plains of Central India and Maharashtra during 12th-14th April.
 - ✓ **Heavy rainfall** likely over Tamil Nadu, Kerala, Sub-Himalayan West Bengal & Sikkim on 12th, Arunachal Pradesh on 12th & 14th; Assam & Meghalaya during 12th-14th, Odisha on 14th & 15th April.

- ✓ **Isolated Hailstorm** likely over Uttarakhand, Madhya Pradesh and Uttar Pradesh on 12th and Jharkhand on 15th April.
- ✓ **Duststorm** very likely at isolated places over Uttar Pradesh and East Rajasthan on 12th April.
- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** very likely at isolated places over Madhya Pradesh, East Uttar Pradesh on 12th April.
- ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** likely over Kerala & Mahe during next 5 days. **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Tamilnadu, Puducherry & Karaikal, Telangana, Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema during next 3 days.

Temperature Forecast:

- ❖ No significant change in maximum temperatures likely over Northwest India during next 24 hours and gradual rise by 4-6°C thereafter during subsequent 6 days.
- ❖ No significant change in maximum temperatures likely over Central India during next 48 hours and gradual rise by 2-3°C thereafter during subsequent 5 days.
- ❖ Fall in maximum temperatures by 2-3°C likely over Maharashtra during next 3 days and gradual rise by 2-4°C thereafter during subsequent 4 days.
- ❖ Fall in maximum temperatures by 2-3°C likely over Gujarat during next 24 hours and gradual rise by 2-4°C thereafter during subsequent 6 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

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

- ❖ **Heat wave conditions** very likely at isolated/some places over West Rajasthan on 14th & 15th with severe heat wave conditions at isolated pockets during 16th-18th April.
- ❖ **Heat wave conditions** are very likely at isolated places over Gujarat state during 15th-17th; Punjab, Haryana, Delhi, East Rajasthan, West Madhya Pradesh during 16th-18th with severe heat wave conditions at isolated pockets over East Rajasthan on 18th April.

iv. Weather conditions and forecast over Delhi/NCR during 12th April to 15th 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 with thunderstorm & lightning observed** at most places over Andaman & Nicobar Islands, Uttarakhand, Haryana Chandigarh & Delhi; at many places over Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh, Kerala & Mahe; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Uttar Pradesh, Punjab, Coastal Karnataka, South Interior Karnataka, Tamilnadu Puducherry & Karaikal; at isolated places over Odisha, Jharkhand, Bihar, Punjab, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Marathawada, Rayalaseema, Telangana, North Interior Karnataka.

Rainfall recorded (in cm):

- ❖ **Tamil Nadu:** Aravakurichi (dist Karur) 9, Thiruthuraiipoondi (dist Thiruvavur), Madukkur (dist Thanjavur) 8 each, Neivasal Thenpathi (dist Thanjavur), Karaikudi (dist Sivagangai), Orthanad (dist Thanjavur), Mannargudi (dist Thiruvavur), Keeranur (dist Pudukkottai), Thandarampettai (dist Tiruvannamalai) 7 each;
- ❖ **Kerala & Mahe:** Mancompu (dist Alapuzha) 7, Trivandrum Aero (dist Thiruvananthapuram) 6, Paripalli (dist Kollam) 6,
- ❖ **North Interior Karnataka:** Dharwad (dist Dharwad) 6,

Realised Gusty Winds during past 24 hours ending at 0300 UTC of today i.e 12.04.2025 (Received from RMCs/MCs):

- ❖ **North Interior Karnataka:** Gadag(23,1200),
- ❖ **Madhya Maharashtra:** Kalwan(27,1530), Chhatrapati Sambhaji Nagar(26,1545), Dhule(25, 1600), Niasm_Baramati(23,1145)
- ❖ **Chhattisgarh:** Surajpur(22 Kts, 1815), Koriya(24 Kts, 1800);
- ❖ **Jammu & Kashmir:** Chatha_AMFU(30,1530), Jammu(25,0530), Thein Dam(26,0600),
- ❖ **Himachal Pradesh:** Seobagh(28,0630), Bajaura(34,1145), Reckon(24,0730), Bilaspur(23,0945), Kufri(24,0545),
- ❖ **Uttarakhand:** Maldevta(25,1545), Jollygrant(23,1615),
- ❖ **Punjab:** Sangrur(30,1345),;
- ❖ **Haryana, Chandigarh & Delhi:** Sirsa(27,0915), Pandu_Pindara(36,1130), Kaul(34,1215), Rohtak(35,1230), Jagdishpur(35,1300), Jafarpur(27,1300), Najafgarh(21,1330), Pitampura(27,1315),
- ❖ **West U.P:** M. nagar(29,1415), NCMRWF(36,1330), Bulandshahr(31,1415), Amroha(29,1430), Ucheti(24,1500), Sambhal(29,1530), Aligarh(30,1445), Kasganj(32,1545), Agra(26,1500), Firozabad(24,1515), Bareilly(24,1930),
- ❖ **East U.P:** Kannauj(35,1730), Shahjahanpur(238,1715), Hardoi(27,1745), Ramkot(32,1830), Bharaich(31,2100), Lucknow(25,1900), Fursatganj(26,2015), Fatehpur(23,2015)
- ❖ **T.N:** Aduthrai(35,1315), Tiruvavur(27,1330),
- ❖ **Saurashtra & Kutch:** Dhorela(35,1245),
- ❖ **Manipur:** Porompet(21,1030), Thoubal(25,1000),
- ❖ **Jharkhand:** Ranchi(24,1600), Gumla(28,1400), Bano(23,1545), Jagannathpur(22, 1715),
- ❖ **West MP:** Ahmadpur(30,0745),
- ❖ **West Rajasthan:** Charkhi_dadri(29,1200), Jhunjhunu(33,1045), Nagaur(31,1315), Pali(35,1830), Shirohi(28,2030)
- ❖ **East Rajasthan:** Alwar(35,1315), Karauli(39,1400), Dholpur(25,1500), Bhilwara(22,2130)

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

- ❖ Yesterday, the Maximum Temperatures have fallen by 4-7°C over Uttar Pradesh, Delhi, Punjab, Jharkhand, Arunachal Pradesh, Assam, Nagaland, Manipur, Mizoram & Tripura; by 2-4°C over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana, Gangetic West Bengal, Madhya Pradesh, Gujarat Region, Telangana, Tamilnadu Puducherry & Karaikal and no significant change over rest parts of the country.
- ❖ Yesterday, **Maximum Temperatures** were in the range **38-40°C** at many places over Rajasthan, Madhya Pradesh, Chhattisgarh, Vidarbha, Madhya Maharashtra, Marathwada, Telangana interior Odisha; **35-37°C** at most places over Haryana-Chandigarh, Karnataka, Kerala & Mahe, Tamilnadu Puducherry & Karaikal; **32-34°C** at many places over Punjab, Delhi, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim; and **20-30°C** at many places over Western Himalayan region and Northeast India. Yesterday, the **highest maximum temperature of 42.8°C** was reported at **Akola (Vidarbha)** over the country. (Fig.1)
- ❖ Yesterday, Maximum Temperatures were **above normal by 2-3°C** at isolated places over Rajasthan, Madhya Pradesh; These were **below normal by 3-5°C** at many places over Himachal Pradesh, East Uttar Pradesh, Bihar, Gangetic West Bengal, Jharkhand; by **1-2°C** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Delhi, Assam & Meghalaya, Odisha, Telangana, Karnataka, Tamilnadu Puducherry & Karaikal and normal over rest parts of the country. (Fig. 2)

Fig. 1: Maximum Temperatures

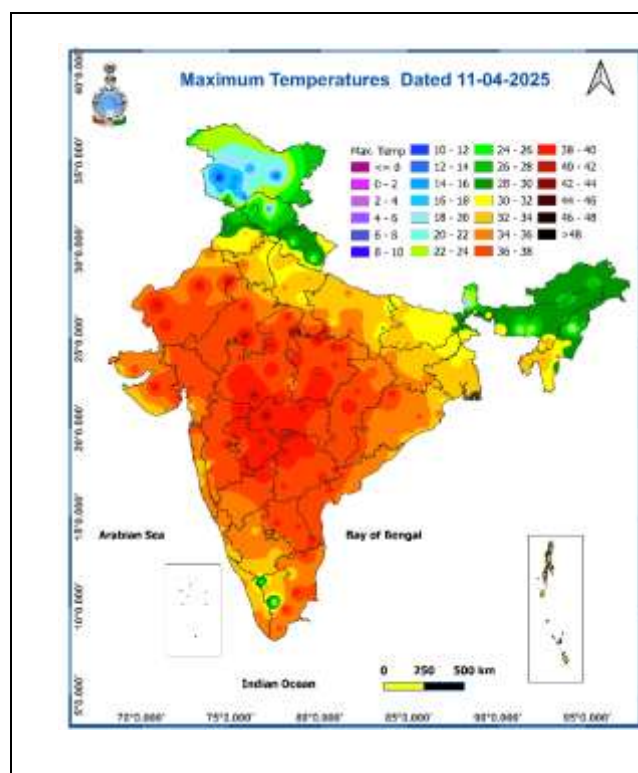
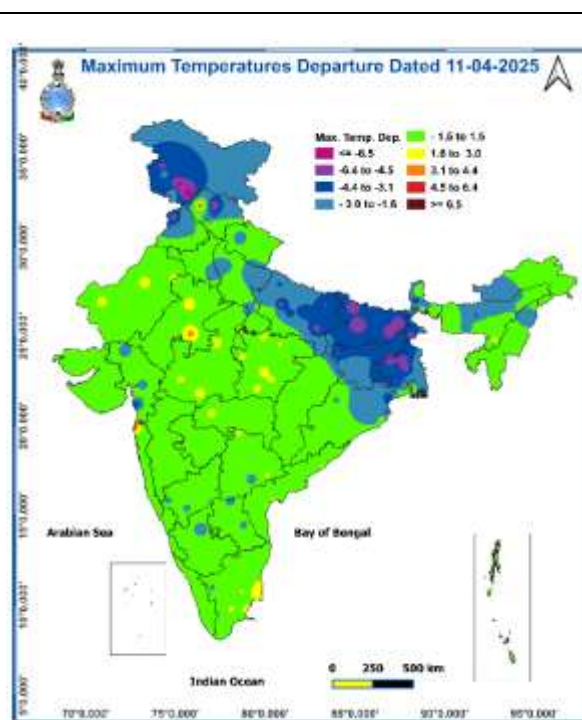
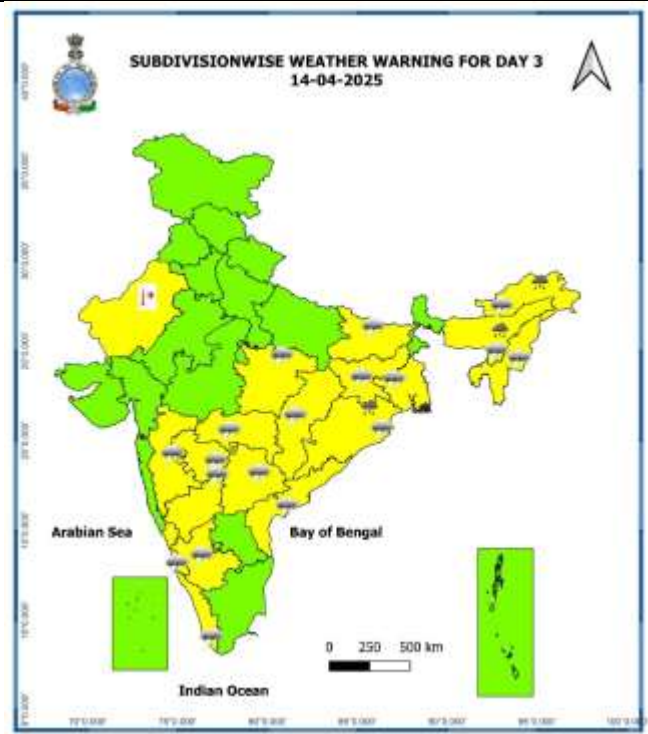
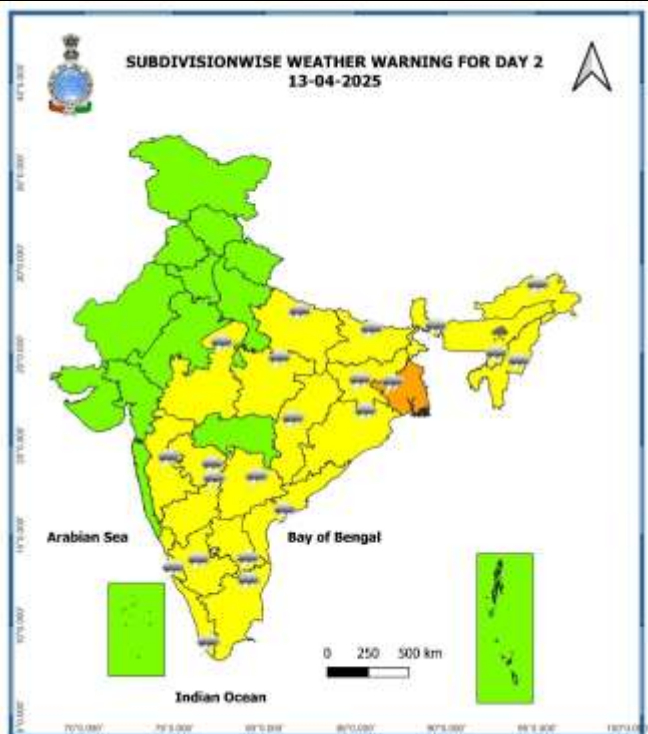
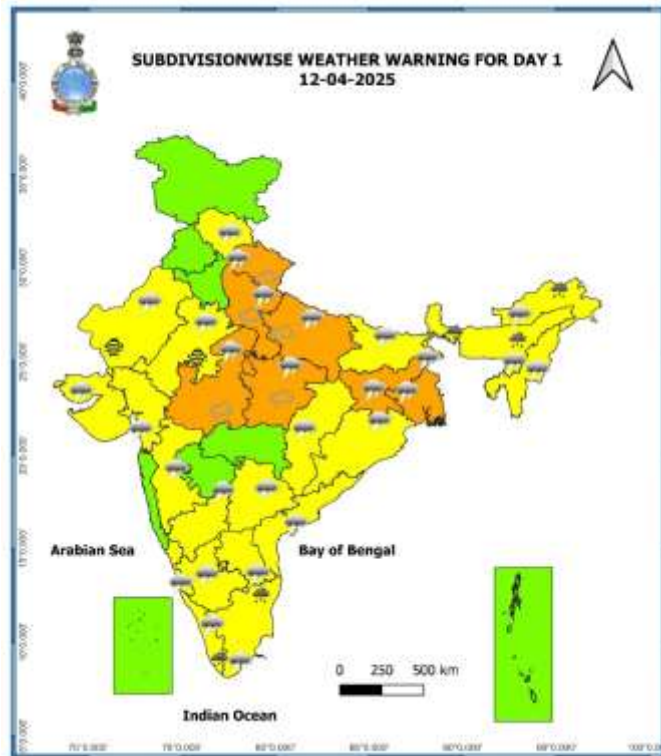


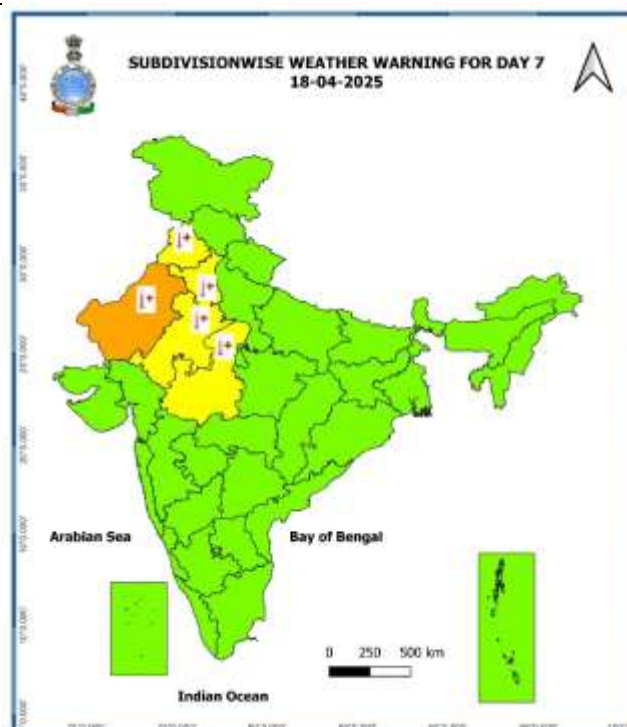
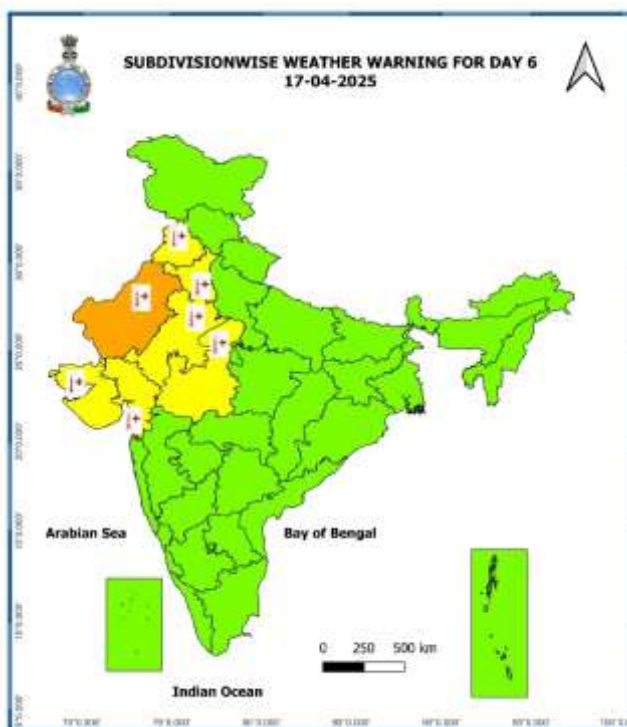
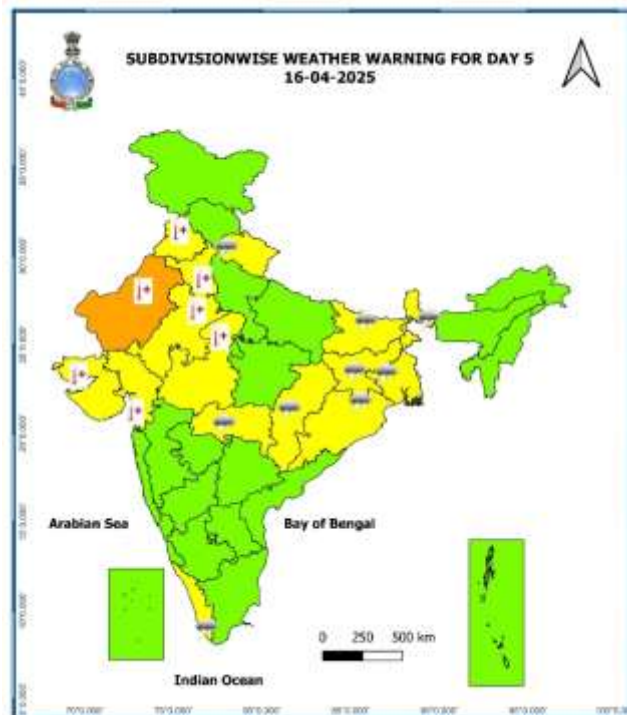
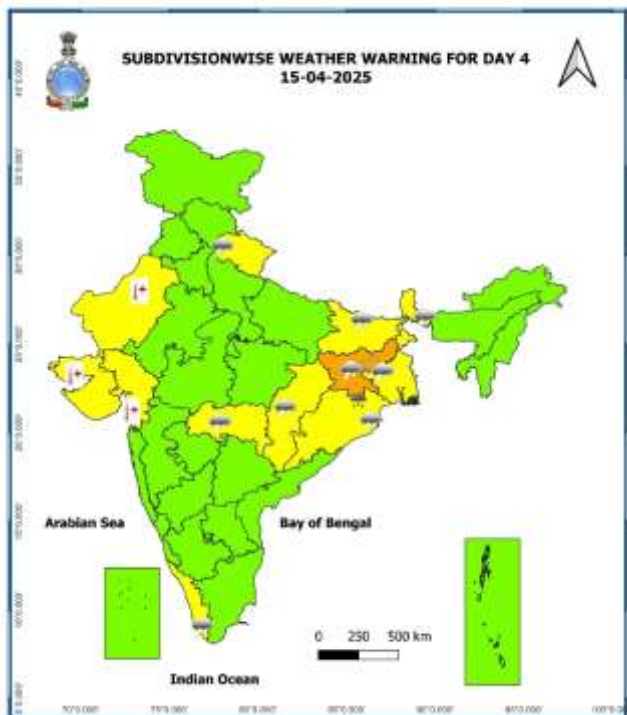
Fig. 2: Departure of Maximum Temperatures



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

Past Weather:

There has been fall in minimum temperature upto 03°C and fall in maximum temperature upto 04°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 34 to 36 °C and 18 to 19 °C respectively. The minimum temperature was below normal upto 03°C and maximum temperature was below normal upto 02°C at most places. Generally cloudy sky conditions with predominant surface wind from the southeast/east direction with wind speeds less than 20 to 24 kmph with gusting to 60 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:

12.04.2025: Partly cloudy sky. Very light rain /drizzle. The maximum temperature over Delhi is likely to be in the range of 34 to 36°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 14 kmph till evening. It would increase becoming less than 18 kmph from the southeast direction during the night.

13.04.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 36 to 38°C and 19 to 21°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 decrease becoming less than 08 kmph from the northeast direction during evening and night.

14.04.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 38 to 40°C and 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 increase becoming 12-14 kmph from the northeast direction in the afternoon. It will decrease becoming less than 10 kmph from the east direction during evening and night.

15.04.2025: Mainly clear sky. 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 08-10 kmph during morning hours. The wind speed will gradually increase becoming 14-16 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 isolated thunderstorm with lightning/gusty winds & Hailstorm over Gangetic West Bengal on 12th & 13th; Uttarakhand, Madhya Pradesh, Rajasthan and Uttar Pradesh on 12th and Jharkhand on 15th 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.

Impact expected and action suggested due to Heat wave to severe heat wave conditions likely at many parts of West Rajasthan during 16th-18th 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

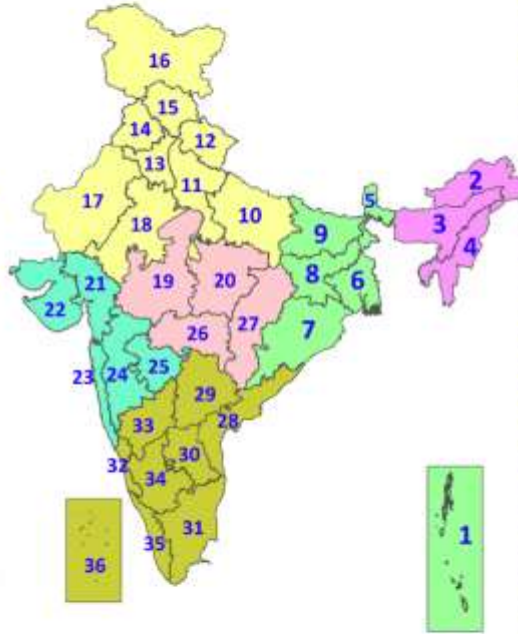
- In **Uttarakhand, Uttar Pradesh and Madhya Pradesh**, immediately shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields to avoid the adverse impact of likely hailstorm. Use hail net and hail caps to prevent mechanical damage in orchards due to hailstorms.
- In **Arunachal Pradesh, Meghalaya, Sub Himalayan West Bengal and Sikkim**, immediately harvest the mature 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 **Odisha**, make necessary arrangements to drain out excess water from standing crop and vegetable fields. Harvest the mature crops, fruits and vegetables and shift the harvested produce in safer places.
- In **Tamil Nadu and Kerala**, drain out excess water from standing crop and vegetable fields.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.
- **Livestock / 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.
- 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 Rain



Very Heavy Rain



Extremely Heavy Rain



Thunder & Lightning



Hailstorm



Dust Raising Winds



Heavy Snow



Dust Storm



Heat Wave



Warm Night



Hot Day



Hot & Humid



Strong Surface Winds



Cold Wave



Cold Day



Ground Frost

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 Storm: 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.