



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 04th April, 2025

Time of Issue: 1345 hours IST

**Subject: i. Heatwave likely over parts of northwest India during next 5-6 days.
ii. Thunderstorm, lightning along with isolated heavy rainfall likely over parts of South Peninsular India during next 3 days.**

i. Realised weather during past 24 hours till 0830 hours IST of today, the 03rd April 2025 (Annexure I):

- ❖ **Squally/Gusty winds** prevailed at isolated locations over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Interior Karnataka, Tamilnadu.
- ❖ **Heavy to very heavy rainfall** occurred at isolated places over Telangana; **heavy rainfall** at isolated places over South Interior Karnataka, Coastal Andhra Pradesh, Rayalaseema and Tamil Nadu.
- ❖ **Hailstorm** occurred at isolated places over Madhya Pradesh, Madhya Maharashtra, Marathawada and Telangana.
- ❖ **Heatwave** 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 lies over southwest Rajasthan and another over West Madhya Pradesh in lower tropospheric level.
- ❖ An upper air cyclonic circulation lies over south Tamil Nadu & neighbourhood and another over south Andaman & neighbourhood 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 South Peninsular India, Andaman & Nicobar Islands, Odisha, Northeast India during 04rd-06th; Maharashtra on 04th & 05th; West Bengal & Sikkim, Jharkhand and central India on 04th April.
 - ✓ **Isolated Hailstorm** likely over Jharkhand on 04th; Assam & Meghalaya on 05th and Nagaland, Manipur, Mizoram & Tripura on 06th April.
 - ✓ **Heavy rainfall** very likely at isolated places over Kerala & Mahe during 04th-06th; Tamil Nadu, South Interior Karnataka on 04th & 05th; Assam & Meghalaya on 05th & 06th; Nagaland, Manipur, Mizoram & Tripura on 06th; Arunachal Pradesh on 05th April; Andaman & Nicobar Islands on 04th & 06th April.

Temperature Forecast:

- ❖ Gradual rise in maximum temperatures by 2-4°C likely over many parts of Northwest India during next 6 days.
- ❖ Gradual rise in maximum temperatures by 2-4°C likely over many parts of central India during next 7 days.
- ❖ Gradual rise in maximum temperatures by 3-4°C likely over Maharashtra during next 7 days.
- ❖ No significant change in maximum temperatures likely over Gujarat during next 24 hours and rise by 2-3°C for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over south peninsular India during next 2 days and rise by 2-4°C during subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country during next 7 days.

Heat wave and Hot & Humid weather warning:

- ❖ Heat Wave conditions very likely to continue to prevail at isolated pockets of Saurashtra & Kutch, south Haryana, Delhi during 04th-09th; West Uttar Pradesh during 05th-09th; Himachal Pradesh during 05th-07th; Punjab, Gujarat Region during 06th-09th; West Rajasthan during 05th-10th; Gujarat Region during 06th-08th; East Rajasthan, during 06th-10th; West Madhya Pradesh during 07th-10th April.
- ❖ Hot & humid weather is likely over Gujarat state during 04th-10th and over Konkan & Goa during 05th-09th April, 2025.

iv. Weather conditions and forecast over Delhi/NCR during 04th April to 07th 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 Andaman & Nicobar Islands, South Interior Karnataka; at many places over north Interior Karnataka; at few places over Vidarbha, Chhattisgarh, Odisha, Coastal Karnataka; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana, Uttar Pradesh, West Rajasthan, Madhya Pradesh, West Bengal & Sikkim, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Marathwada, Madhya Maharashtra,
- ❖ **Thunderstorm with lightning** reported at isolated places over Haryana, East Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and south peninsular India.

Rainfall recorded (in cm):

- ❖ **Telangana:** Tekulapalle (dist B. Kothagudem) 17, Bayyaram (dist Mahabubabad) 11, Yellandu(dist B. Kothagudem) 10, Saroornagar (dist Rangareddy) 9, Palawancha (dist B. Kothagudem)9, Shekpet (dist Hyderabad) 8, Himayatnagar (dist Hyderabad) 8, Mulakalapalle (dist B.Kothagudem) 8, Domakonda (dist Kamareddy) 7, Charminar (dist Hyderabad) 7, Amberpet (dist Hyderabad) 7,
- ❖ **Tamil Nadu Puducherry & Karaikal:** PWD Makkinampatti (dist Coimbatore), Kayalpattinam (dist Thoothukudi) 10 each,Thangachimadam (dist Ramanathapuram), Alangudi (dist Pudukkottai), Moolaikaraipatti (dist Tirunelveli), Kalugumalai (dist Thoothukudi) 8 each,Ottapadiram (dist Thoothukudi), Vadakuthu (dist Cuddalore), Kayathar (dist Thoothukudi),Sendurai (dist Ariyalur) 7 each,
- ❖ **South Interior Karnataka:** N R Pura (dist Chikkamagaluru) 9, Koppa (dist Chikkamagaluru) 6, Chitradurga Obsy(dist Chitradurga) 6,
- ❖ **Coastal Andhra Pradesh & Yanam:** Yerragondapalem (dist Prakasam) 7, Amaravati (dist Guntur) 5,
- ❖ **Rayalaseema:** Singanamala (dist Anantapuramu) 7, Nallamada (dist Sri Sathyasai District) 6, Porumamilla (dist Ysr District) 6,
- ❖ **Kerala & Mahe:** Piravam (Ernakulam district) Mannarkkad (Palakkad district) 6 each, Kottayam, Palakkad, Ottappalam (Palakkad district), Quilandi (Kozhikode **district**), Mannarkkad (Palakkad district), Cheruvanchery (Kannur district) ; Konni (Pathanamthitta district) 5 each,

Hailstorm recorded:

- ❖ **Madhya Pradesh:** Vidisha, Gwalior, Sagar.

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

- ❖ **North Interior Karnataka:** Tidagundi(Vijayapura) 30; Belagavi AP G22; Gadag 17.
- ❖ **South Interior Karnataka:** Agumbe (Shivamogga) 19; Hiriya (Chitradurga) 27; Mandya kvk 24; Chikkaballapura 23; Doddaballapura(BNG Rural) , Chandurayanagalli (Ramanagar dt) 20 each Bengaluru Urban 19;
- ❖ **Telangana:** Siddipet 32, Kandi 26, Basanthpur(25), Tandur 30
- ❖ **East Madhya Pradesh:** Sagar(21)Vidarbha: Wardha(22,06:00),
- ❖ **Madhya Maharashtra:** Niasm-Baramati(32,18:45), Chh. Sambhaji nagar(32,18:30), Mahabaleshwar(24, 17:00),
- ❖ **Marathwada:** Tulga(23, 18:45), Ambejogai(26, 15:30), Kolhapur(21,16:45)
- ❖ **Rayalaseema:** Utkuru(33,15:00), DHARMAVARAM(21, 16:30),
- ❖ **Chhattisgarh:** Dantewada(22, 18:15)\
- ❖ **Tamil Nadu:** Natham_Isro 67kmph, Paiyur_Amfu, Krishnagiri 44kmph, Sethu_Bhaskar_Ag Ri_College_Kar 41kmph, Sivaganga(22, 16:15),
- ❖ **Kerala:** Kolllendoge(26, 14:15), Sholayar(26, 16:00), Mattancherry(22, 10:45), Konni(21, 16:00),

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

- ❖ Yesterday, Maximum Temperatures showed **rising tendency** during past 24 hours by **1-3°C** over many places of the Haryana Chandigarh & Delhi, Uttar Pradesh, Bihar, East Madhya Pradesh; **falling tendency** by 2-5°C at many places over south peninsular India, Gujarat, Chhattisgarh and **1-2°C** over many parts of Odisha, West Madhya Pradesh and no significant change over the rest parts of the country.
- ❖ Yesterday's **Maximum Temperatures** were in the range of 39-42°C in many parts of Gujarat, southwest Rajasthan; in some parts of south Haryana, Delhi; 35-38 °C over remaining parts of west Rajasthan, East Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Odisha, Gangetic West Bengal, Maharashtra, Telangana; 30-34 °C over Punjab, north Haryana, Chandigarh, south peninsular India, Islands, west Assam, Nagaland, Manipur, Mizoram and 20-29 °C over Western Himalayan Region. Yesterday, the highest maximum temperature of **43.0°C was reported at Surendranagar (Saurashtra & Kutch)** over the country. (Fig.1)
- ❖ Yesterday, Maximum Temperatures were **above normal by 4-6°C** over many parts of south Haryana, Delhi; **by 2-4°C** over Punjab, north Haryana, Chandigarh, Rajasthan, Gujarat state, Uttar Pradesh, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **below normal by 2-6°C** over East Madhya Pradesh, Maharashtra, south peninsular India; some parts of Odisha and near normal of rest parts of the country. (Fig. 2).

Fig. 1: Maximum Temperatures

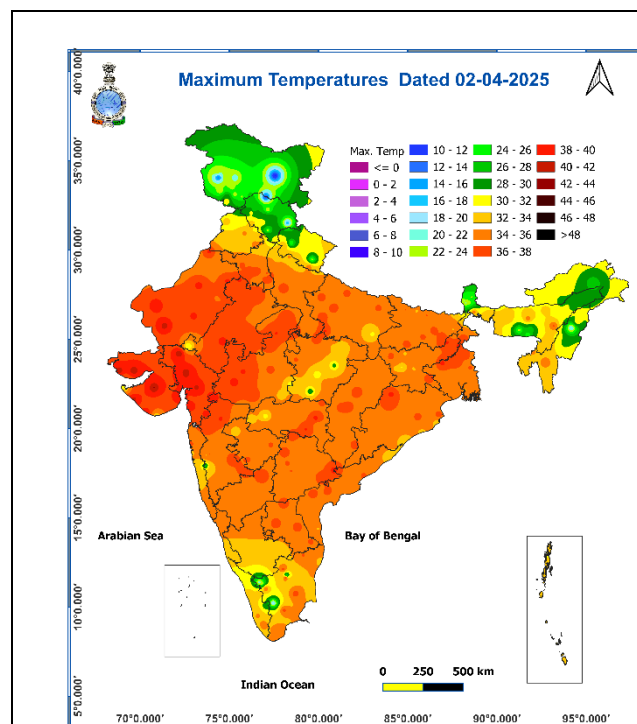
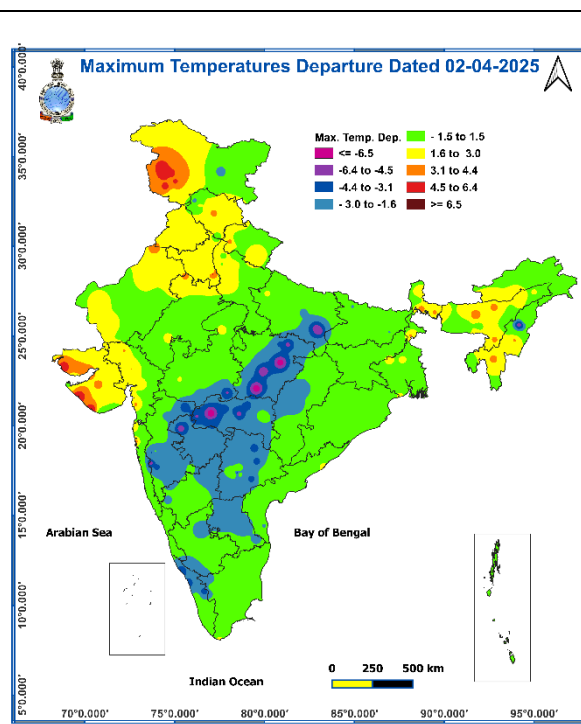
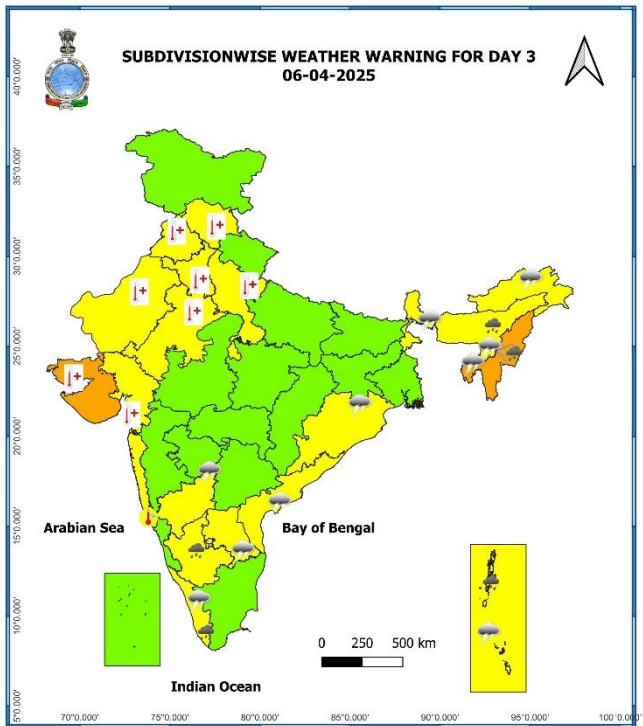
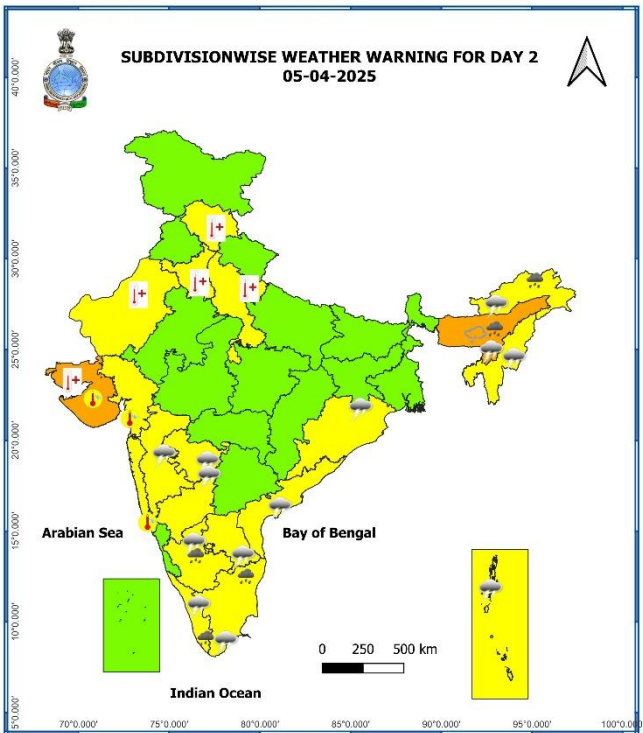
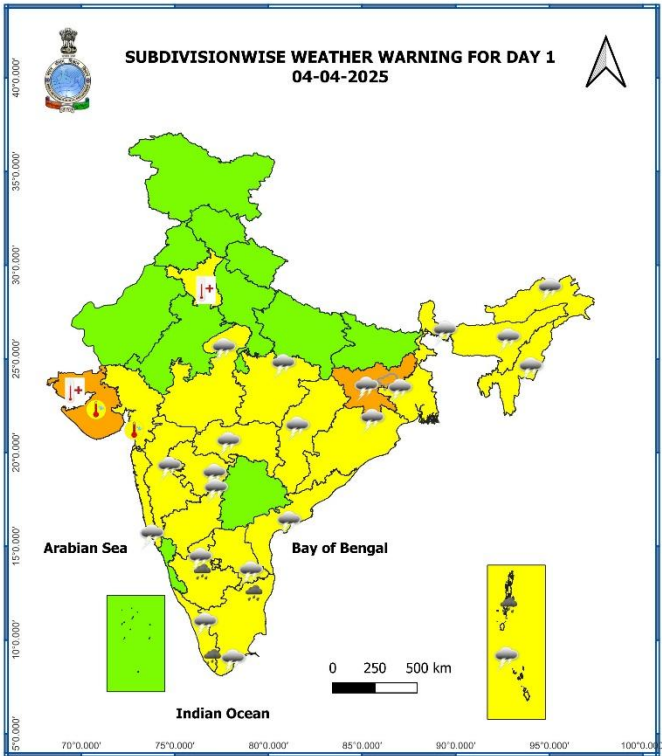


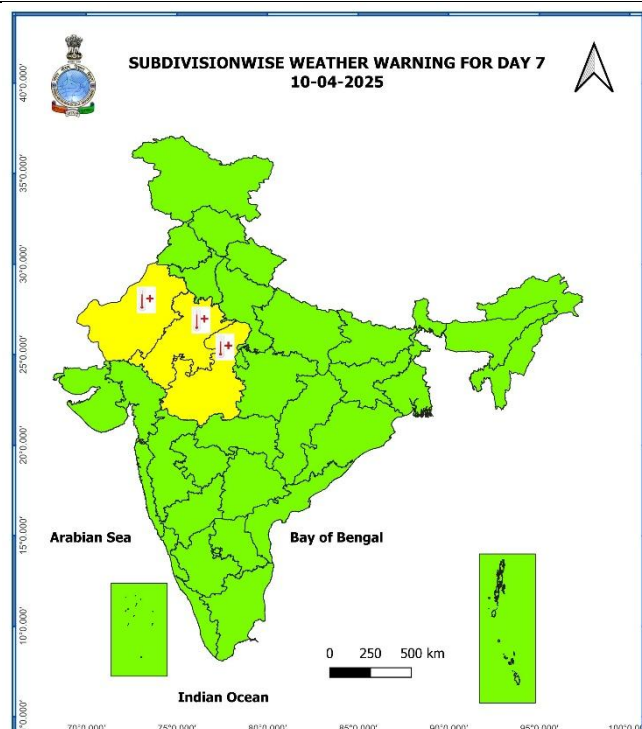
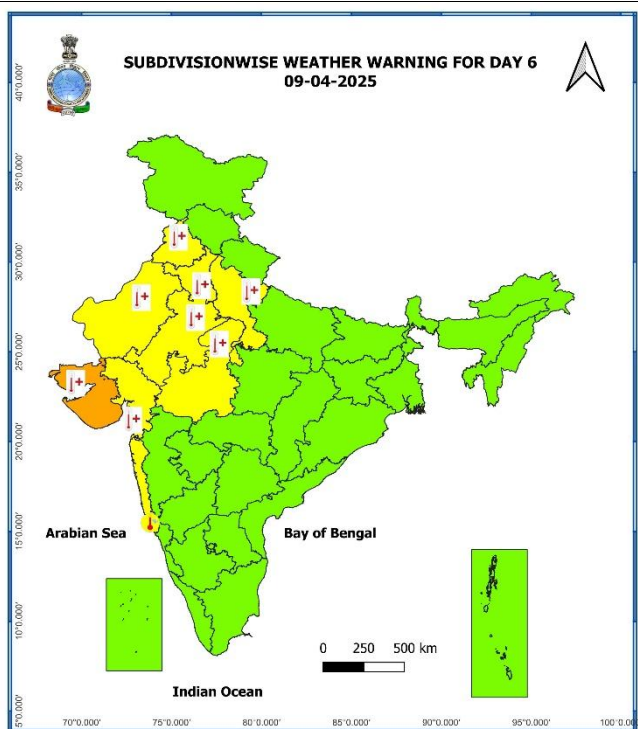
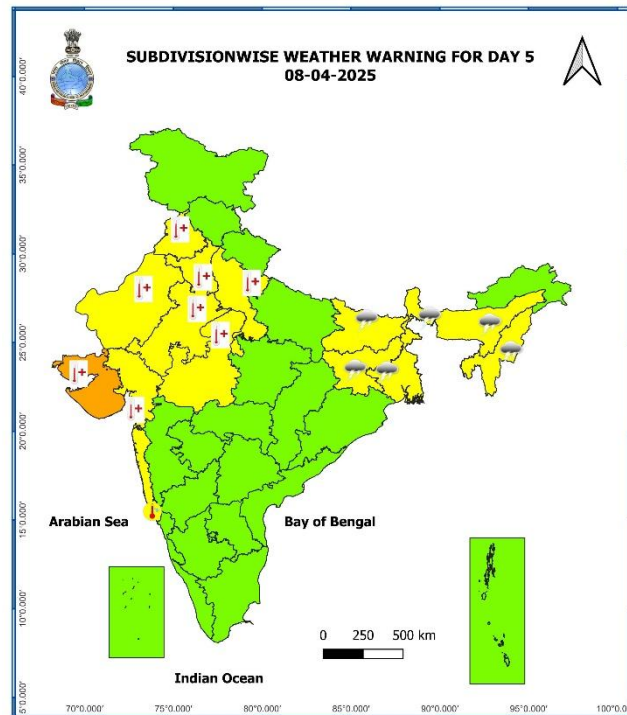
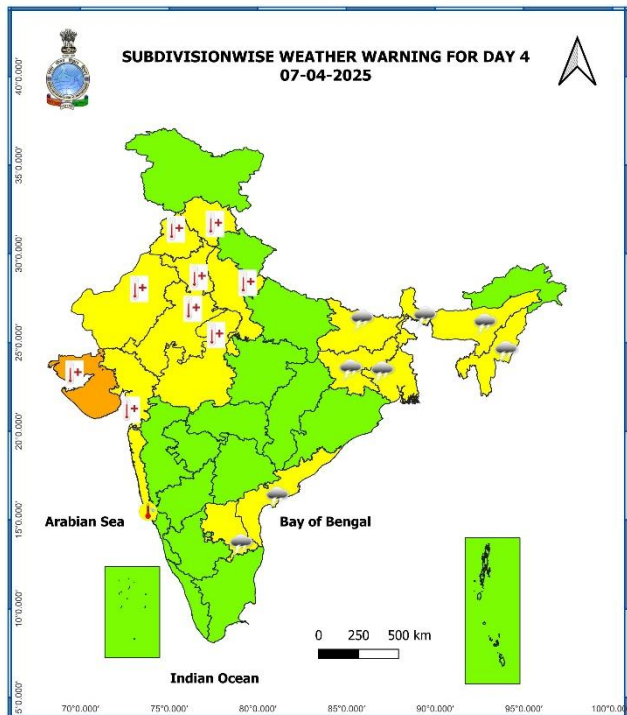
Fig. 2: Departure of Maximum Temperatures



7 Days Rainfall Forecast								
S. No.	Subdivision	04-Apr	05-Apr	06-Apr	07-Apr	08-Apr	09-Apr	10-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 04th to 07th Apr. 2025**Past Weather:**

There has been rise in minimum and maximum temperature upto 03 °C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 38 to 40 °C and 18 to 21 °C respectively. The minimum temperature was near normal and maximum temperature was above normal upto 05 °C at most places. Mainly clear sky conditions with predominant surface wind from the southwest/southeast direction with wind speeds less than 10 to 12 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 08 kmph from the southwest direction prevailed over the region in the forenoon today.

Weather Forecast:

04.04.2025: 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 39 to 41°C. Heat wave conditions very likely at isolated places over northwest parts of Delhi. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 16 kmph till evening. It would decrease becoming less than 10 kmph from the north direction during the night.

05.04.2025: Mainly clear sky. Surface winds (speed 10-20 kmph) occasionally gusting to 30 kmph during the day time. 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. Heat wave conditions very likely at isolated places over Delhi. The predominant surface wind will likely be from the North direction with a wind speed of 10-12 kmph during morning hours. The wind speed will gradually increase thereafter becoming 18-20 kmph from the Northwest direction during the afternoon. It will decrease becoming less than 10 kmph from the North direction during evening and night.

06.04.2025: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 39 to 41°C and 19 to 21°C respectively. Heat wave conditions likely at isolated places over Delhi. 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 becoming 08-10 kmph from the northwest direction in the afternoon. It will decrease becoming less than 10 kmph from the northeast direction during evening and night.

07.04.2025: Mainly clear sky. 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. Heat wave conditions likely at isolated places over Delhi. 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 north direction in the afternoon. It will increase upto 10 kmph from the southeast direction during evening and night.

Impact expected and action suggested due Heat Wave conditions over Saurashtra & Kutch, south Haryana, Delhi during 04th-09th; West Uttar Pradesh during 05th-09th; Himachal Pradesh during 05th-07th; Punjab, Gujarat Region during 06th-09th; West Rajasthan during 05th-10th; Gujarat Region during 06th-08th; East Rajasthan, during 06th-10th; West Madhya Pradesh during 07th-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 Jharkhand on 04th; Assam & Meghalaya on 05th; Nagaland, Manipur, Mizoram & Tripura on 06th 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 **Jharkhand, East Rajasthan, Madhya Pradesh, Vidarbha, North Interior Karnataka and Telangana**, 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 **Andaman & Nicobar Islands, Karnataka and North Eastern states**, 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 **Tamilnadu and Kerala**, drain out excess water from standing crop and vegetable fields.
- In **Saurashtra & Kutch**, 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

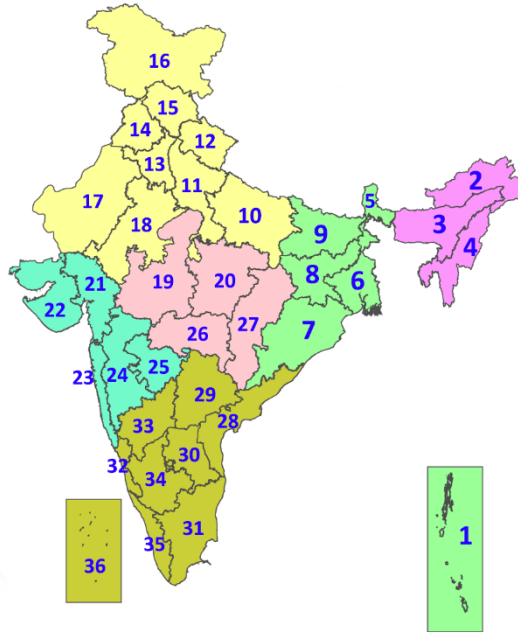
- Keep the animals inside the shed during heavy rainfall/hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also provide clean, hygienic and plenty of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