



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 14th April, 2025
Time of Issue: 1345 hours IST

- Subject:** i) Heat wave conditions likely over Rajasthan till 19th, over Gujarat state from 15th to 17th; Punjab, Haryana, Chandigarh & Delhi and West Madhya Pradesh during 16th to 18th April.
- ii) An intense Western Disturbance likely to affect Western Himalayan Region from 16th to 20th with peak intensity with isolated heavy falls on 18th & 19th April. Rainfall along with thunderstorm & lightning and gusty winds is likely over adjoining plains of northwest India during 18th to 20th April, 2025.

i. Realised weather during past 24 hours till 0830 hours IST of today, the 14th April 2025 (Annexure I):

- ❖ **Thunderstorm** accompanied with Squally/Gusty winds prevailed at isolated locations over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Tami Nadu Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
 - ❖ **Hailstorm** occurred at isolated places over West Madhya Pradesh, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam and Chhattisgarh.
 - ❖ **Heavy rainfall** recorded at isolated places over Odisha and Tamil Nadu
 - ❖ **Duststorm** recorded at isolated places over East Uttar Pradesh.
- For more details of realised weather, kindly refer [Annexure I](#)**

Temperature:

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

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

- ❖ An **upper air cyclonic circulation** lies over northeast Madhya Pradesh, 2nd over Bangladesh and 3rd over Gulf of Mannar in lower tropospheric levels.
- ❖ A **trough** runs from West Rajasthan to Gulf of Mannar; 2nd trough from West Madhya Pradesh to Bangladesh in lower tropospheric levels.
- ❖ Under the influence of these systems:
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Northeast & East India during next 5 days.
 - ✓ Isolated to scattered rainfall accompanied with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over the plains of Central India and Maharashtra on 14th & 15th April.
 - ✓ **Heavy rainfall** likely over Odisha on 15th & 16th; Assam & Meghalaya during 16th-18th; Nagaland, Manipur, Mizoram & Tripura on 17th April.
 - ✓ **Isolated Hailstorm** likely over East Madhya Pradesh on 14th; Jharkhand on 15th April.

- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** very likely at isolated places over Gangetic West Bengal, Bihar, Jharkhand on 14th & 15th April.
- ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** likely over Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka during next 5 days. **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Kerala & Mahe during next 3 days.
- ❖ An intense Western Disturbance likely to affect Western Himalayan Region from 16th to 20th with peak intensity with isolated heavy falls on 18th & 19th April. **Isolated Hailstorm** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 18th; Himachal Pradesh, Uttarakhand on 18th & 19th. Rainfall along with thunderstorm & lightning and gusty winds is likely over adjoining plains of northwest India during 18th to 20th April, 2025.:

Temperature Forecast:

- ❖ Gradual Rise in maximum temperatures by 3-5°C likely over Northwest India during next 5-6 days till 18th April and gradual fall by 2-4°C during subsequent 2 days.
- ❖ No significant change in maximum temperatures likely over Central India during next 24 hours and gradual rise by 2-4°C during 15th-18th and gradual fall by 2-4°C during subsequent 2 days.
- ❖ Rise in maximum temperatures by 2-3°C likely over interior Maharashtra during next 5 days and no significant change thereafter during subsequent 2 days.
- ❖ Gradual Rise in maximum temperatures by 2-3°C likely over Gujarat State during next 4 days till 17th April and gradual fall by 2-3°C during subsequent 3 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 to severe heat wave condition** very likely at isolated/some places over West Rajasthan during 14th-19th with severe heat wave conditions at isolated/some parts during 16th-18th April.
- ❖ **Heat wave conditions** are very likely at isolated places over East Rajasthan during 15th-19th; Gujarat State during 15th-17th; Punjab, Haryana, West Madhya Pradesh during 16th-18th April.
- ❖ **Hot & humid** weather is likely to prevail over Kerala & Mahe on 14th & 15th; Gujarat State during 15th-17th April.
- ❖ **Warm Night conditions** are likely at isolated places over West Rajasthan during 16th-18th; East Rajasthan on 17th & 18th April.

iv. Weather conditions and forecast over Delhi/NCR during 14th April to 17th 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 many places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim; at a few places over Lakshadweep, Coastal Andhra Pradesh & Yanam; at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Bihar, Odisha, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Telangana, Karnataka.

Rainfall recorded (in cm):

- ❖ **Odisha:** Chikiti (dist Ganjam) 7, Patrapur (dist Ganjam) 5, Chhatrapur (dist Ganjam) 4, Rangeilunda (dist Ganjam) 4,
- ❖ **Tamil Nadu:** Perunchani Dam (dist Kanyakumari), Puthan Dam (dist Kanyakumari) 7 each.

Realised Gusty Winds during past 24hours ending at 0300 UTC of today i.e 14.04.2025 (Received from RMCs/MCs):

- ❖ **East Uttar Pradesh-** BHARAICH_AMFU(32kt 1130) CHANDAULI_KVK 31kt 0430) LUCKNOW ... STATION:INTEGRAL UNIVERSITY (27KT 1245) STATION:VARANASI(29KT 0330)
- ❖ **Bihar-** ASARAM ... STATION:BIKRAMGANJ (28kt 0445) BUXAR ... STATION:DUMARAON (27kt 0500)
- ❖ **Jharkhand-** CHATRA ... STATION:CHATRA_KVK(25Kt 0615)
- ❖ **Gangetic West Bengal -** Raidighi (19 kts), Asansol (18 kts), Durgapur (17 kts)
- ❖ **Chhattisgarh-** MUNGELI ... STATION:MUNGELI_AWS400 (40Kt 1015) PENDRA_ROAD ... STATION:PENDRA_ROAD (27Kt 1215)
- ❖ **East Madhya Pradesh-** DISTRICT:SAGAR ... STATION:SAGAR (31Kt 1015)
- ❖ **Coastal Andhra Pradesh & Yanam -** KAKINADA ... STATION:PEDDAPURAM (35Kt 1530) WEST_GODAVARI ... STATION:BHIMAVARAM (26Kt 1600)
- ❖ **Assam & Meghalaya-** DISTRICT:JORHAT ... STATION:JORHAT_AMFU (30kt 0715)
- ❖ **Nagaland, Manipur, Mizoram & Tripura-** AGARTALA=23 KT
- ❖ **Telangana-** RANGA_REDDY ... STATION:DAIRA(33Kt 1230)

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

- ❖ Yesterday, the **Maximum Temperatures** have **fallen by 2-4°C** at some locations over East Uttar Pradesh, north Madhya Pradesh, Bihar, Jharkhand & adjoining Gangetic West Bengal, Sub-Himalayan west Bengal, North Chhattisgarh, North Odisha, coastal Andhra Pradesh & adjoining North Tamil Nadu; **risen by 2-4°C** Jammu, Kashmir, Ladakh, Himachal Pradesh, Uttarakhand, northwest Uttar Pradesh, Punjab, Haryana, Delhi, Rajasthan, Gujarat, southwest Madhya Pradesh, north Madhya Maharashtra, Vidarbha, south Kerala, east Arunachal Pradesh, east Assam, Manipur, Mizoram and no significant change over rest parts of the country. .
- ❖ Yesterday, **Maximum Temperatures** are in the **range of 39-42°C** over Rajasthan (one station 44 °C), Gujarat (One station 43.6), south Madhya Pradesh, interior Maharashtra, Telangana & adjoining south coastal Andhra Pradesh, south Chhattisgarh, interior Odisha, Rayalaseema; **36-38°C** over Haryana, Delhi, central Uttar Pradesh, north Madhya Pradesh, remaining coastal Andhra Pradesh, coastal Odisha, Tamil Nadu, Lakshadweep, Karnataka, Konkan; **30-35 °C** Punjab, Bihar, Northeast India and Jammu & Kashmir, south Himachal Pradesh and south Uttarakhand. Yesterday, the **highest maximum temperature of 44.0°C was reported at Barmer (West Rajasthan)** over the country. **(Fig.1)**
- ❖ Yesterday, Maximum Temperatures are **above normal by 3-6°C** over some parts of Jammu & Kashmir, southwest Rajasthan, East Arunachal Pradesh, northeast Assam; **1-3°C** over Gujarat, North coastal Andhra Pradesh, Nagaland, Manipur, Mizoram, Tripura; **below normal by 5-8°C** over Bihar & adjoining East Uttar Pradesh; **2-4°C** over northeast Madhya Pradesh, North Chhattisgarh, Jharkhand, North Odisha, North Gangetic West Bengal & sub-Himalayan West Bengal and near normal over rest parts of the country.. **(Fig. 2)**

Fig. 1: Maximum Temperatures

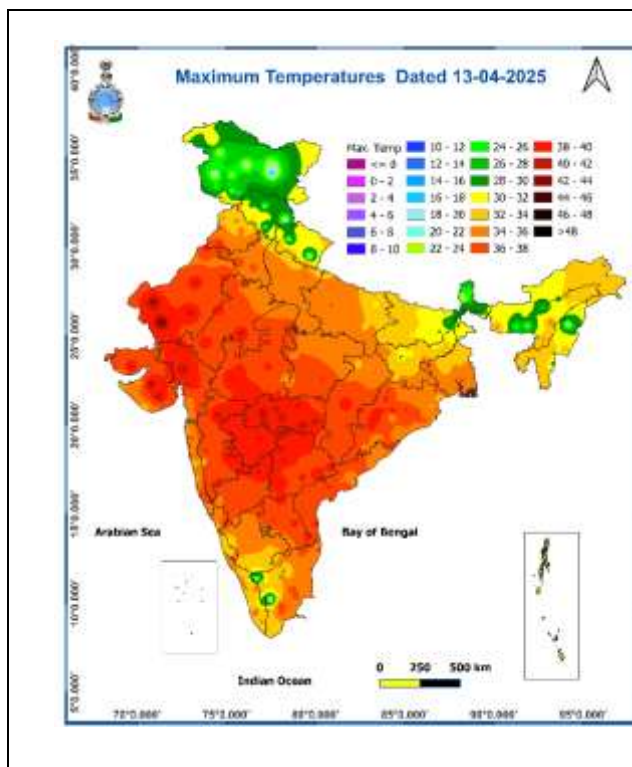
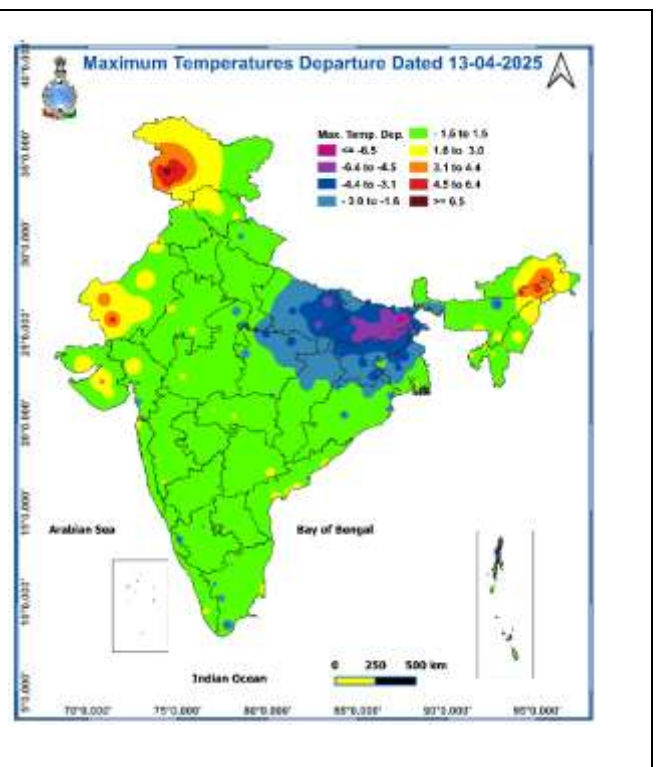
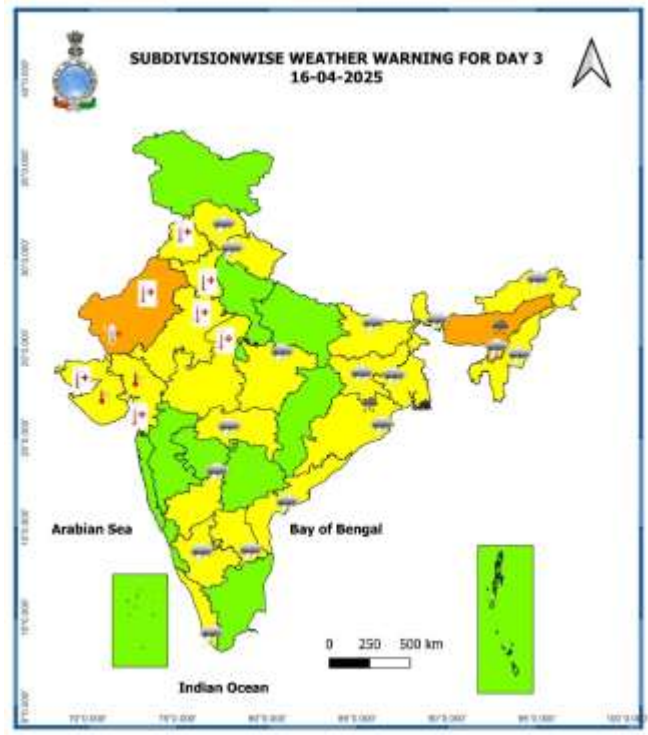
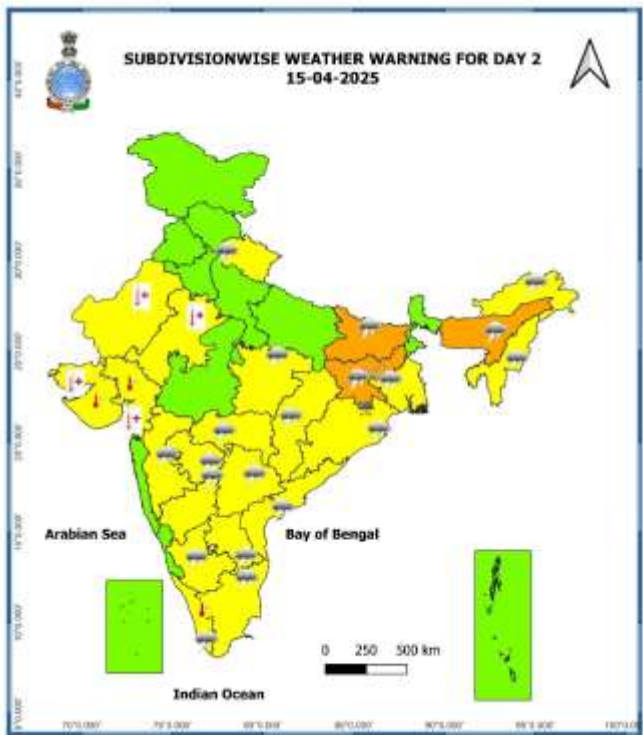
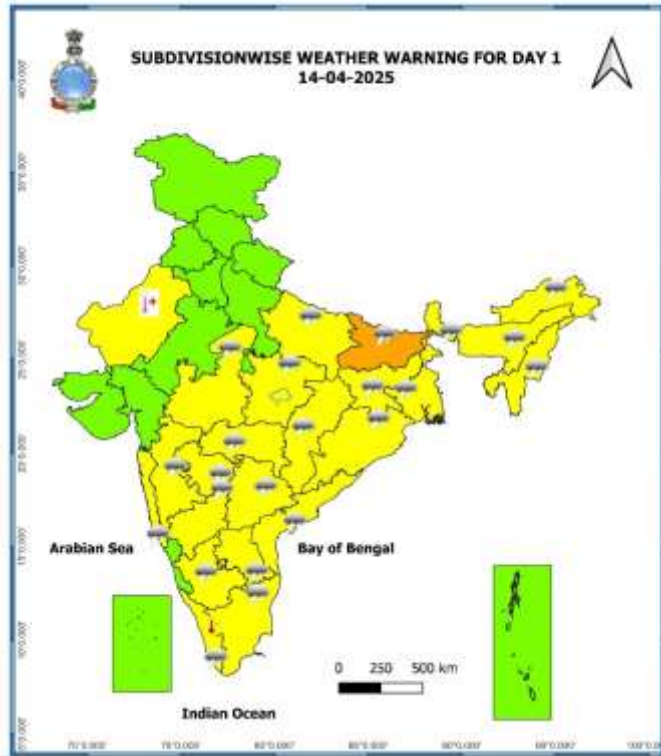


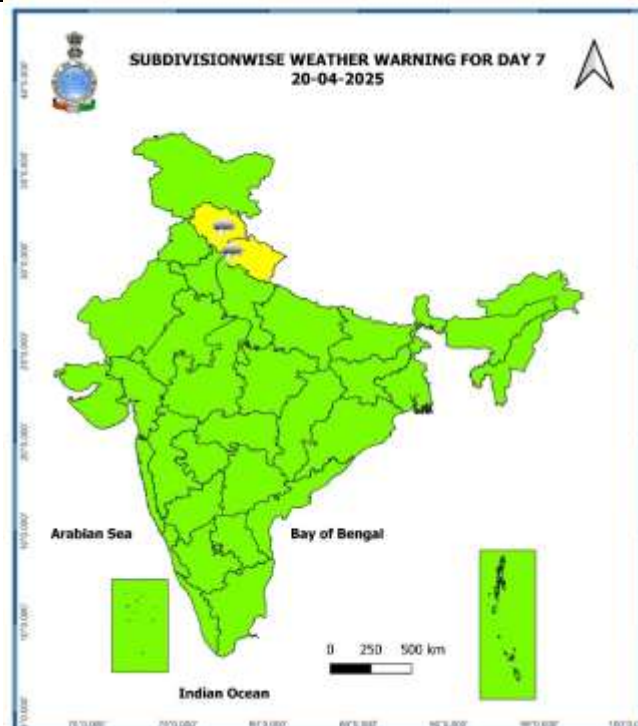
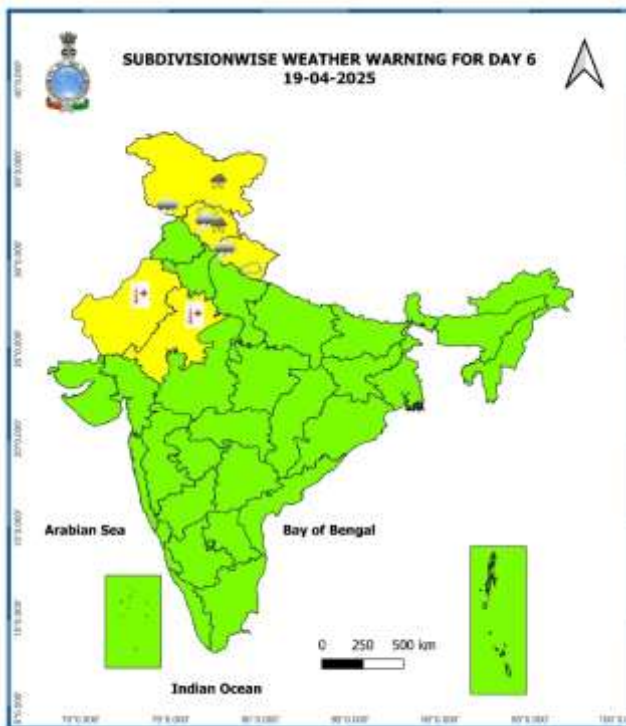
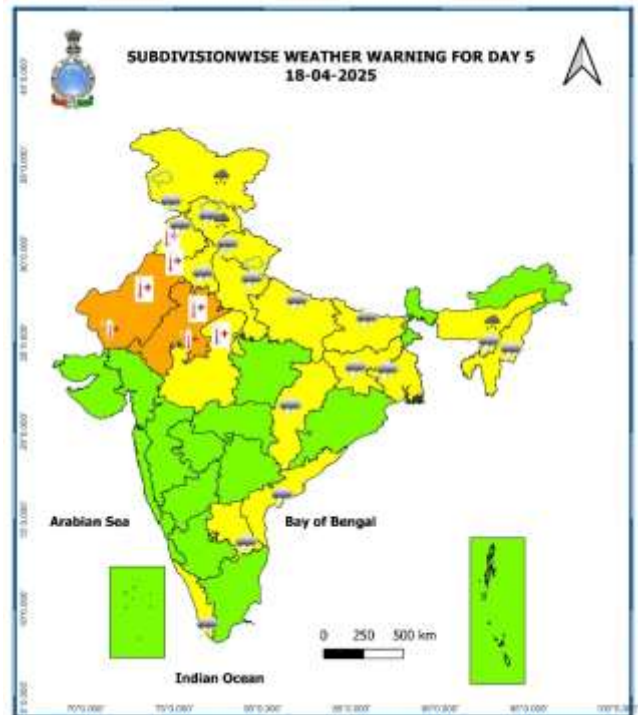
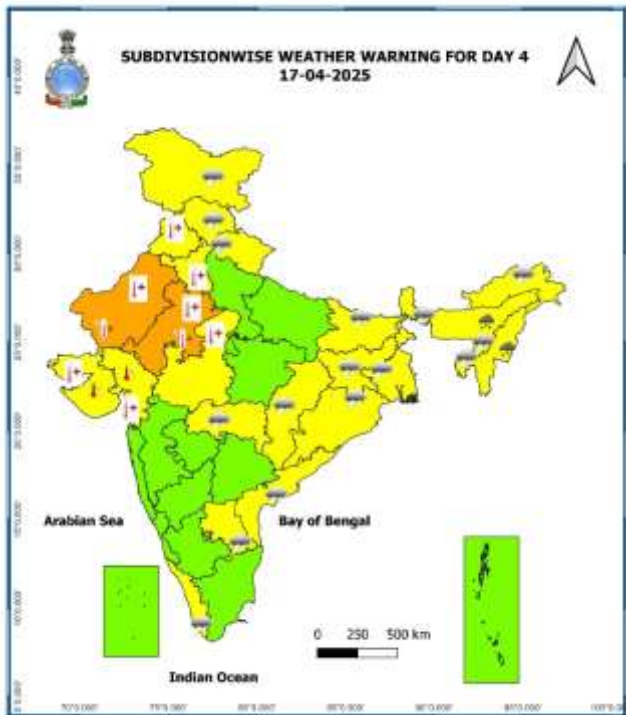
Fig. 2: Departure of Maximum Temperatures



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

Past Weather:

There has been rise in minimum and maximum temperatures upto 02°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 36 to 37 °C and 20 to 23 °C respectively. The minimum and maximum temperatures were near normal at most places. Mainly clear sky conditions with predominant surface wind from the southeast direction with wind speeds less than 08 to 12 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 10 kmph from the southeast direction prevailed over the region in the forenoon today.

Weather Forecast:

14.04.2025: Mainly clear sky. The maximum temperature over Delhi is likely to be in the range of 36 to 38°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 12 kmph till evening. It would decrease becoming less than 08 kmph from the southeast direction during the night.

15.04.2025: Mainly clear sky. Strong surface winds (speed 20-30 kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 37 to 39°C and 22 to 24°C respectively. The predominant surface wind will likely be from the southeast direction with a wind speed of 12-14 kmph during morning hours. The wind speed will gradually decrease thereafter becoming 08-12 kmph from the southeast direction during the afternoon. It will increase becoming less than 18 kmph from the southeast direction during evening and night.

16.04.2025: Mainly clear sky becoming partly cloudy sky from evening. Heat wave conditions very likely at isolated places over Delhi. The maximum and minimum temperatures over Delhi are likely to be in the range of 39 to 41°C and 23 to 25°C respectively. The predominant surface wind will likely be from the southeast direction with a wind speed of 12-14 kmph during morning hours. The wind speed will gradually decrease becoming 06-10 kmph from the northwest direction in the afternoon. It will increase becoming less than 12 kmph from the northeast direction during evening and night.

17.04.2025: Partly cloudy sky. Heat wave conditions very likely at isolated places over Delhi. The maximum and minimum temperatures over Delhi are likely to be in the range of 40 to 42°C and 23 to 25°C respectively. The predominant surface wind will likely be from the east direction with a wind speed of 06-10 kmph during morning hours. The wind speed will gradually increase becoming 10-14 kmph from the east direction in the afternoon. It will decrease becoming less than 10 kmph from the northeast direction during evening and night.

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over East Madhya Pradesh on 14th; Jharkhand on 15th; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 18th; Himachal Pradesh, Uttarakhand on 18th & 19th 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 over

1. **Heat wave conditions to severe heat wave condition** over West Rajasthan during 14th-19th with severe heat wave conditions at isolated/some parts during 16th-18th April.
2. **Heat wave conditions** over East Rajasthan during 15th-19th; Gujarat State during 15th-17th; Punjab, Haryana, West Madhya Pradesh during 16th-18th 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.

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

- In **Jharkhand**, 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 **Meghalaya** and **Odisha**, 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 **Rajasthan, Punjab, Haryana, West Madhya Pradesh** and **Gujarat**, 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

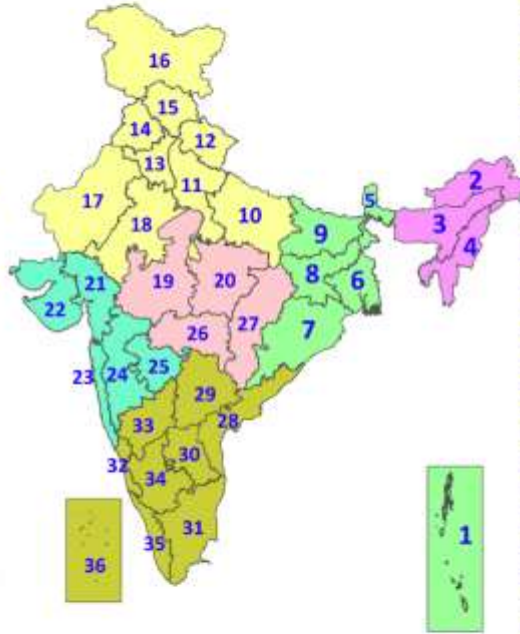
- Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also provide clean, hygienic and plenty of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

DEFINITION/CRITERIA

Rain/ Snow *	<p>Heavy: 64.5 to 115.5 mm/cm *</p> <p>Very Heavy: 115.6 to 204.4 mm/cm*</p> <p>Extremely Heavy: > 204.4 mm/cm *</p>
Heat Wave	<p>When maximum temperature of a station reaches $\geq 40^\circ\text{C}$ for plains and $\geq 30^\circ\text{C}$ for hilly regions</p> <p>(a) Based on Departure from normal</p> <p>Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C.</p> <p>Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^\circ\text{C}$</p> <p>(b). Based on Actual maximum temperature</p> <p>Heat Wave: When actual maximum temperature $\geq 45^\circ\text{C}$.</p> <p>Severe Heat Wave: When actual maximum temperature $\geq 47^\circ\text{C}$</p> <p>(c). Criteria for heat wave for coastal stations</p> <p>When maximum temperature departure is $>4.5^\circ\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ\text{C}$</p>
Warm Night	<p>When maximum temperature remains 40°C</p> <p>Warm Night: When minimum temperature departure 4.5°C to 6.4°C.</p> <p>Severe Warm Night: When minimum temperature departure $>6.4^\circ\text{C}$.</p>
Cold Wave	<p>When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions.</p> <p>(a). Based on departure</p> <p>Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C.</p> <p>Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^\circ\text{C}$</p> <p>(b) Based on actual Minimum Temperature (for Plains only)</p> <p>Cold Wave : When Minimum Temperature is $\leq 4.0^\circ\text{C}$</p> <p>Severe Cold Wave: When Minimum Temperature is $\leq 2.0^\circ\text{C}$</p> <p>(c) For Coastal Stations</p> <p>When Minimum Temperature departure is $\leq -4.5^\circ\text{C}$ & actual Minimum Temperature is $\leq 15^\circ\text{C}$</p>
Cold Day	<p>When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions</p> <p>Based on departure</p> <p>Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C.</p> <p>Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^\circ\text{C}$</p>
Fog	<p>Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$</p> <p>Moderate Fog: When the visibility between 500-200 metres</p> <p>Dense Fog: when the visibility between 50- 200 metres</p> <p>Very Dense Fog: when the visibility < 50 metres</p>
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	<p>Ice deposits on ground</p> <p>Air temperature $\leq 4^\circ\text{C}$ (over Plains)</p>
Squall	<p>A strong wind that rises suddenly, lasts for atleast 1 minute.</p> <p>Moderate: Wind speed 52-61 kmph</p> <p>Severe: Wind speed 62-87 kmph</p> <p>Very Severe: Wind speed >87 kmph</p>
Sea State	<p>Effect of various waves in the sea over specific area</p> <p>Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre</p> <p>High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre</p> <p>Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre</p>
Cyclone	<p>Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)</p> <p>Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)</p> <p>Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)</p> <p>Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)</p> <p>Super Cyclone Strom: Wind speed >220 kmph (>119 knots)</p>

* 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.