



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release
Date: 16th April, 2025
Time of Issue: 1330 hours IST

Subject: i) Heat wave to severe heat wave conditions likely over Rajasthan till 18th and heat wave conditions over Gujarat state till 17th 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 are also 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 Tamilnadu Puducherry & Karaikal, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Assam & Meghalaya, Odisha, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand.
- ❖ **Hailstorm** occurred at isolated places over Telangana, Vidarbha, Chhattisgarh, Assam & Meghalaya.
- ❖ **Heavy rainfall** recorded at isolated places over Odisha.
- ❖ **Heat wave to severe heat wave conditions** prevailed at isolated places over West Rajasthan.

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 southwest Rajasthan, 2nd over East Madhya Pradesh and 3rd over east Assam in lower tropospheric levels.
- ❖ A **trough** from Southwest Rajasthan to Gulf of Mannar, 2nd trough from East Madhya Pradesh to Gangetic West Bengal; in lower tropospheric levels and 3rd trough in lower & middle tropospheric westerlies from Sikkim to north Odisha.
- ❖ 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 Vidarbha, Chhattisgarh during 16th-18th April.
 - ✓ **Heavy rainfall** likely over Bihar on 17th; Assam & Meghalaya on 17th and during 20th-22nd; Arunachal Pradesh during 20th-22nd April.

- ✓ **Isolated Hailstorm** likely over Chhattisgarh, Vidarbha on 16th April.
- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** very likely at isolated places over Gangetic West Bengal, Bihar on 17th & 18th April.
- ✓ **Isolated to Scattered** 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 Karnataka during next 5 days. **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Kerala & Mahe during 16th-19th April.
- ✓ **Heavy rainfall** likely over Tamilnadu Puducherry & Karaikal on 16th April.
- ❖ An intense Western Disturbance likely to affect Western Himalayan Region from 16th to 20th April.
 - ✓ **Thunderstorm, lightning & gusty winds (speed 40-50 kmph) with isolated hailstorm** likely over Western Himalayan Region on 18th & 19th April.
 - ✓ **Isolated heavy rainfall likely** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, and Himachal Pradesh on 18th & 19th April.
 - ✓ Isolated rainfall along with thunderstorm & lightning and gusty winds (speed 30-40 kmph) is likely over adjoining plains of northwest India during 18th to 20th April, 2025.
- Isolated Duststorm/Thunderstorm likely over West Rajasthan on 16th & over East Rajasthan on 17th April.

Temperature Forecast:

- ❖ Gradual Rise in maximum temperatures by 2-4°C likely over Northwest India during next 3 days, till 18th April and gradual fall by 2-3°C during subsequent 3-4 days.
- ❖ Gradual Rise in maximum temperatures by 2-3°C likely over Central India during next 4 days and no significant change thereafter during subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over Maharashtra during next 24 hours and gradual rise by 2-3°C during subsequent 6 days.
- ❖ No significant change in maximum temperatures likely over Gujarat State during next 2 days and gradual fall by 2-3°C during subsequent 5 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 condition** very likely at many/some places over West Rajasthan during 16th-18th; at isolated places on 19th with **severe heat wave conditions** at isolated/some parts during 16th-18th April.
- ❖ **Heat wave conditions** are very likely at isolated/some places over East Rajasthan during 16th-19th; Gujarat State on 16th & 17th April.
- ❖ **Hot & humid** weather is likely to prevail over Gujarat Region, Kerala & Mahe on 16th & 17th; Marathawada, Madhya Maharashtra during 17th-20th April.
- ❖ **Warm Night conditions** are likely at isolated places over Rajasthan on 16th & 17th; Uttar Pradesh on 17th & 18th April.

iv. Weather conditions and forecast over Delhi/NCR during 16th April to 19th 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, Coastal Andhra Pradesh & Yanam; at a few places over Jharkhand, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Telangana; at isolated places over Uttarakhand, East Rajasthan, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Bihar, Assam & Meghalaya, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, Interior Karnataka.

Rainfall recorded (in cm):

- ❖ **Odisha:** Madanpur Rampur (dist Kalahandi) 9, Cuttack (dist Cuttack) 8, Garadapur (dist Kendrapara) 7, Harichandanpur (dist Keonjhar) 7,
- ❖ **Coastal Andhra Pradesh & Yanam:** Addanki (dist Bapatla) 6, Ongole (dist Prakasam) 6, Therlam (dist Vizianagaram) 5, Darsi (dist Prakasam) 4, Tiruvuru (dist Ntr District) 4, Kurupam (dist Parvathipuram Manyam) 4, Garividi (dist Vizianagaram) 4,
- ❖ **Tamilnadu Puducherry & Karaikal:** Mettur (dist Salem), Jambukuttapatti (dist Krishnagiri) 5 each, Mettur AWS (dist Salem), Ammapettai (dist Erode) 4 each,

Realised Gusty Winds during past 24hours ending at 0300 UTC of today i.e 16.04.2025 (Received from RMCs/MCs):

- ❖ **Madhya Maharashtra:** Chhatrapati Sambhaji Nagar(27,1500), Rajgurunagar(25,1215), Jalna(25,1615),
- ❖ **Chhattisgarh:** Janjgir(21,1430), Raipur(24,1045), Rajnandgaon_KVK(30,1015)
- ❖ **Jharkhand:** Bokaro(29,1415), Ranchi(21,1315), Simdega(24,1430),
- ❖ **Odisha:** Kendrapara(29,0830), Sonapur(21,1115),
- ❖ **Assam & Meghalaya:** Umiam(24,0800), Borgaon(23,0830),
- ❖ **Nagaland:** Jharnapani_AMFU(21,0930), Thonoknyu(22,1045), Kiphire(23,1130)
- ❖ **South Interior Karnataka:** Hanuman Matti(31,1300), Davanagere(24,1145),
- ❖ **Coastal Andhra Pradesh:** Chintapalli_AMFU(25,0830), CS_Puram(34,1115), Kadapa(25,1145),
- ❖ **Telangana:** Siddhapur(24,1745), Dullapally(223,1015), Kandi(26,1030), Hyderabad(28,0915), CGWB_Nagole(21,1100), Mojer(27,1115),

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

- ❖ Yesterday, the **Maximum Temperatures** had **risen by 1 to 2 °C** many parts of northwest & central India, Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, south coastal Odisha, rest Bihar, rest Jharkhand; **fallen by 2 to 4°C** over many parts of east Jharkhand, West Bengal, Interior Odisha. No significant change over remaining parts of the country.
- ❖ Yesterday, **Maximum Temperatures** were in the range of 42-45°C at a few places over West Rajasthan, Gujarat state, interior Maharashtra; 38-41°C over remaining parts of Rajasthan, Madhya Pradesh, Telangana, North Interior Karnataka, Rayalaseema, interior Odisha, central parts of Chhattisgarh, south Punjab, south Haryana, south Delhi; 33-37°C over north Punjab, north Haryana, Uttar Pradesh, west Bihar, west Jharkhand remaining Odisha, Gangetic West Bengal, northeast & south Assam, Mizoram, Tripura, remaining Karnataka, Konkan & Goa, Tamil Nadu, Coastal Andhra Pradesh & Yanam. Yesterday, the highest maximum temperature of 45.5°C was reported at Barmer (West Rajasthan) over the country.
- ❖ Yesterday, Maximum Temperatures were **above normal (8°C or 11°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **(4°C to 7.0°C)** at a few places West Rajasthan, east Arunachal Pradesh and northeast Assam; **above normal (1°C to 3.0°C)** at remaining parts of Rajasthan, Punjab adjoining southwest Haryana, southwest Madhya Pradesh, Gujarat, Maharashtra adjoining west Telangana. These were **below normal (-7°C to -3°C)** at most places over Bihar, Jharkhand, many places over West Bengal; at a few places over East Uttar Pradesh, north Odisha, Mizoram and near normal over rest parts of the country (Fig. 2)

Fig. 1: Maximum Temperatures

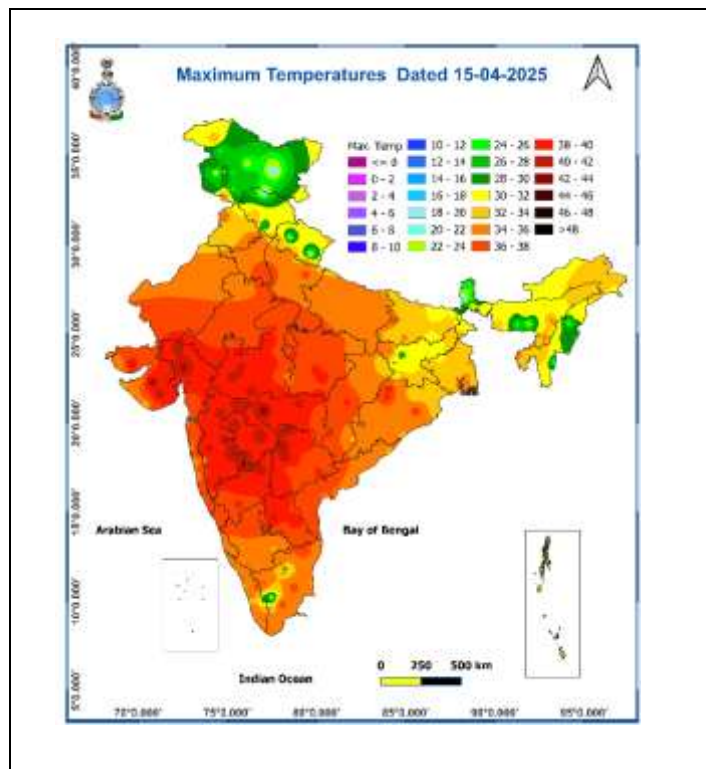
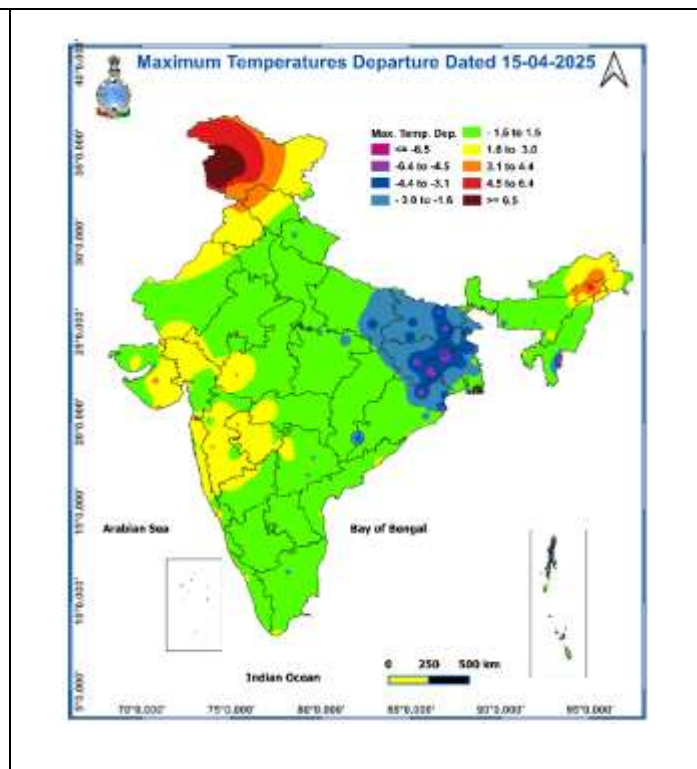
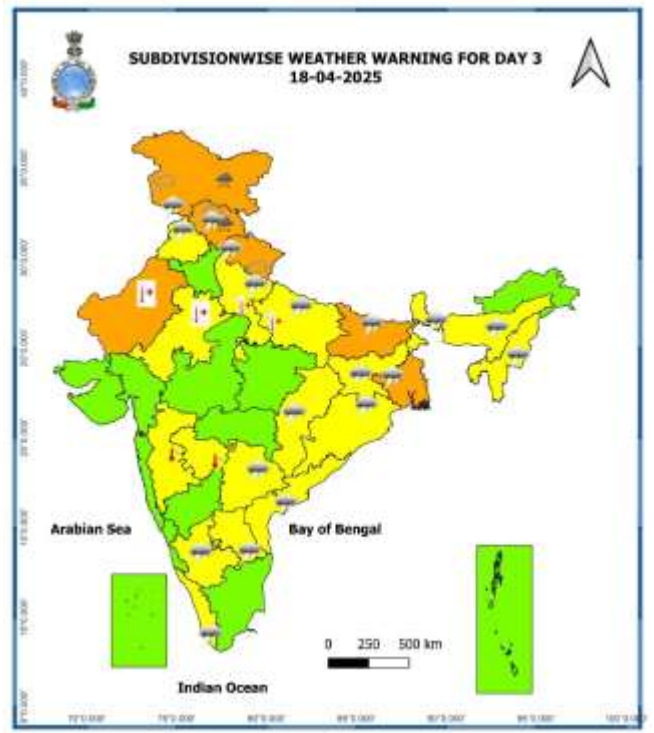
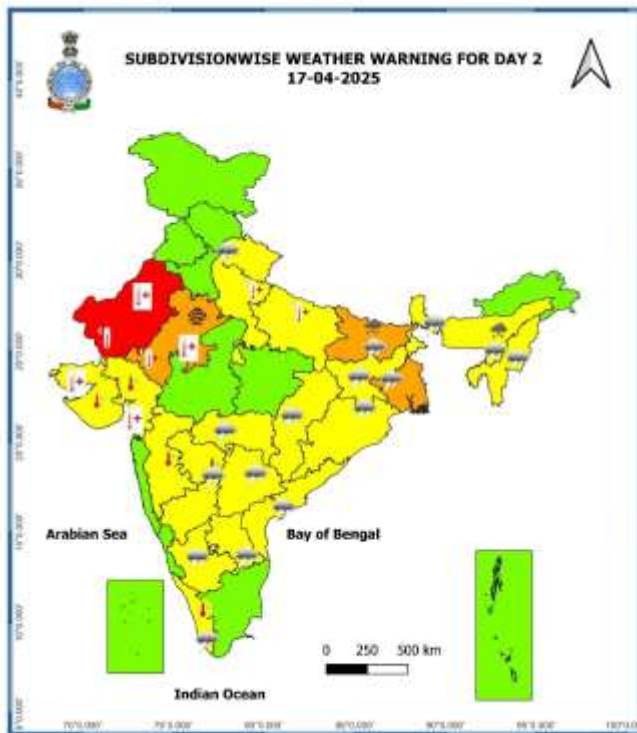
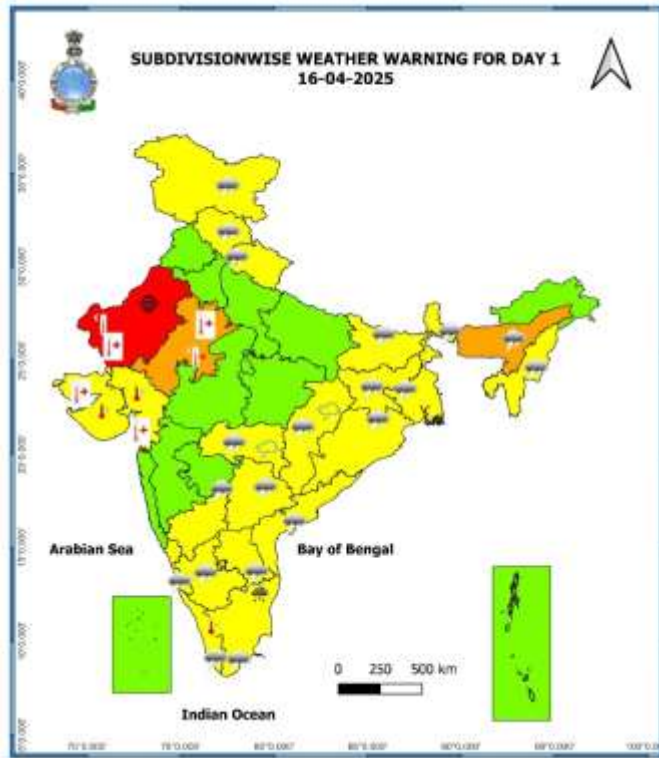


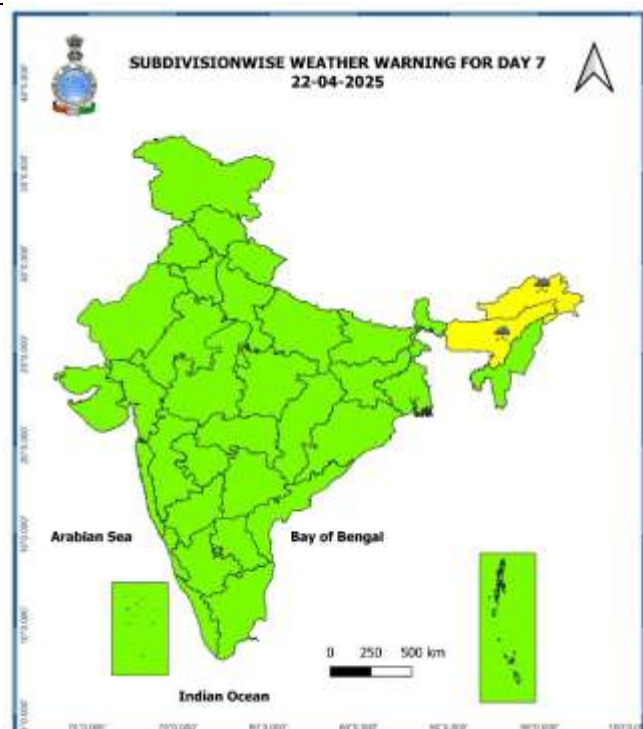
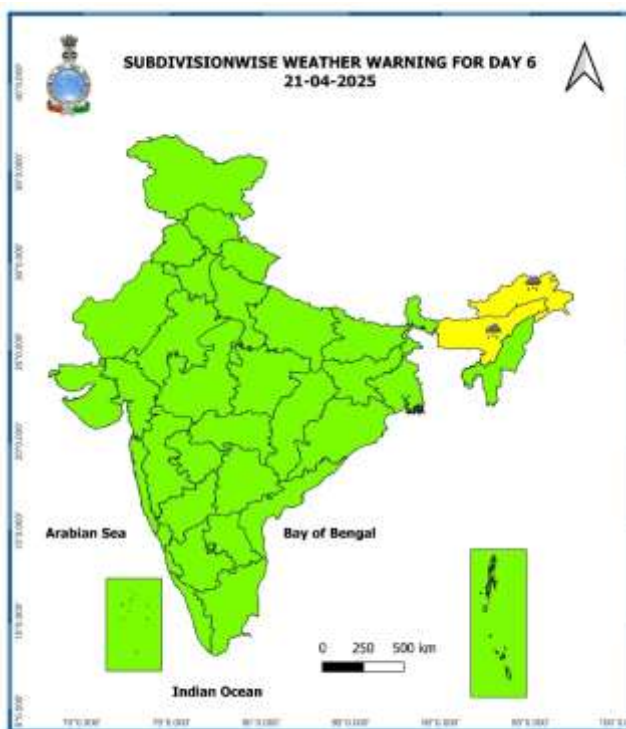
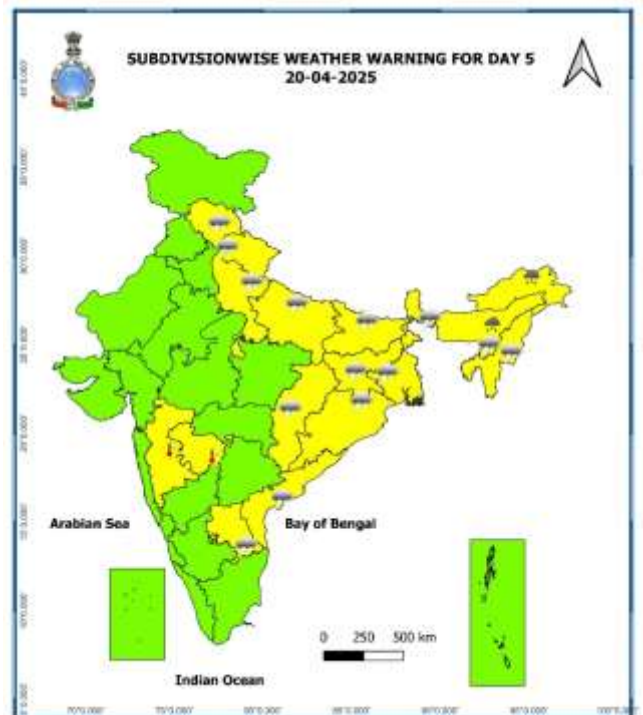
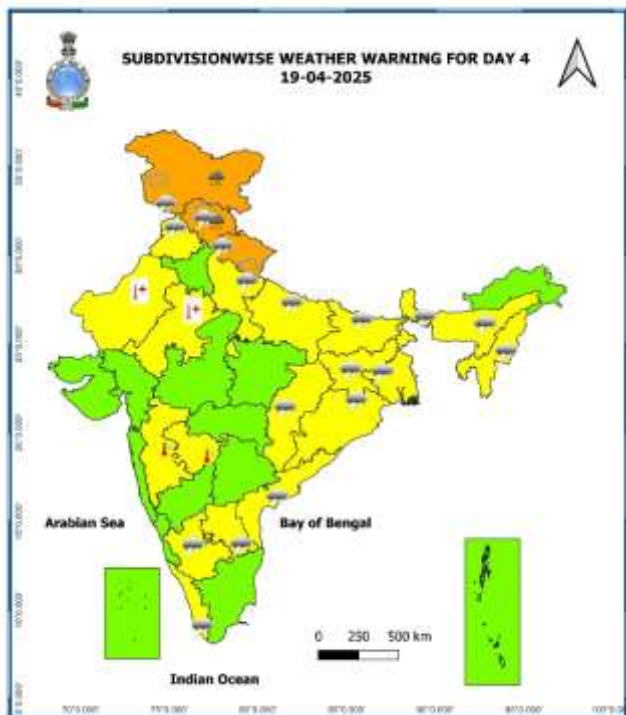
Fig. 2: Departure of Maximum Temperatures



7 Days Rainfall Forecast								
S. No.	Subdivision	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	FWS	FWS	SCT	ISOL	ISOL
2	ARUNACHAL PRADESH	SCT	FWS	SCT	SCT	SCT	FWS	FWS
3	ASSAM & MEGHALAYA	FWS	WS	SCT	SCT	FWS	FWS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	FWS	SCT	SCT	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	FWS	FWS	FWS	FWS	FWS	SCT
6	GANGETIC WEST BENGAL	SCT	FWS	FWS	ISOL	ISOL	ISOL	ISOL
7	ODISHA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	SCT	ISOL	SCT	SCT	ISOL	ISOL	ISOL
9	BIHAR	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY	ISOL	ISOL	ISOL	ISOL	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	SCT	FWS	FWS	ISOL	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	DRY	ISOL	ISOL	ISOL	DRY	DRY
15	HIMACHAL PRADESH	ISOL	ISOL	FWS	WS	FWS	SCT	ISOL
16	JAMMU & KASHMIR AND LADAKH	ISOL	ISOL	WS	WS	SCT	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	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	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHAWADA	ISOL	ISOL	DRY	DRY	DRY	DRY	ISOL
26	VIDARBHA	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	SCT	ISOL	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	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
33	NORTH INTERIOR KARNATAKA	ISOL	DRY	DRY	ISOL	ISOL	ISOL	SCT
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
35	KERALA & MAHE	SCT	SCT	SCT	SCT	SCT	FWS	FWS
36	LAKSHADWEEP	DRY	DRY	DRY	DRY	DRY	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.ind.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 16th to 19th Apr. 2025

Past Weather:

There has been rise in minimum temperature upto 01°C and no significance changes in maximum temperature over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 37 to 38 °C and 22 to 25 °C respectively. The minimum temperature was above normal upto 02°C and maximum temperature was near normal at most places. Mainly clear sky conditions with predominant surface wind from the southeast direction with wind speeds less than 12 to 14 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 14 kmph from the southeast direction prevailed over the region in the forenoon today.

Weather Forecast:

16.04.2025: Mainly Clear Sky becoming partly cloudy sky towards evening. Sustained Surface winds (speed 10-20 kmph). The maximum temperature over Delhi is likely to be in the range of 38 to 40°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 10 kmph from the southeast direction during the night.

17.04.2025: Partly cloudy sky. Sustained Surface winds (speed 10-20 kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 39 to 41°C and 24 to 26°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 08-10 kmph from the northwest direction during the afternoon. It will decrease becoming less than 08 kmph from the northeast direction during evening and night.

18.04.2025: Partly cloudy sky. Strong surface winds with speed 20-30 kmph gusting to 40 kmph. 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 06-08 kmph during morning hours. The wind speed will gradually increase becoming 10-14 kmph from the southwest direction in the afternoon. It will increase becoming less than 18 kmph from the west direction during evening and night.

19.04.2025: Partly cloudy sky. Strong surface winds with speed 20-30 kmph gusting to 40 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 38 to 40°C and 25 to 27°C respectively. The predominant surface wind will likely be from the west direction with a wind speed of 08-10 kmph during morning hours. The wind speed will gradually increase becoming 14-20 kmph from the southwest 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 Chhattisgarh, Vidarbha on 16th; Western Himalayan Region 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

- ❖ **Heat wave condition** very likely at many/some places over West Rajasthan during 16th-18th; at isolated places on 19th with **severe heat wave conditions** at isolated/some parts during 16th-18th April.
- ❖ **Heat wave conditions** are very likely at isolated/some places over East Rajasthan during 16th-19th; Gujarat State on 16th & 17th 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 **Chhattisgarh**, 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 **Assam & Meghalaya, Tripura, Bihar, Jammu & Kashmir** and **Himachal Pradesh**, 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** 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

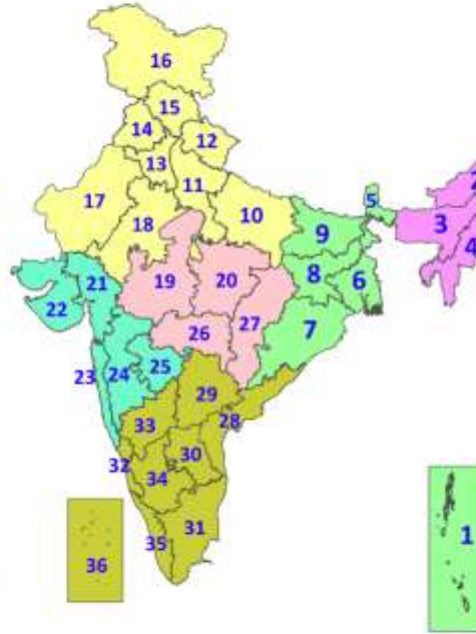
- Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also provide clean, hygienic and plenty of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

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(Service to the Nation since 1875)

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	<p>Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)</p>
Dust/Sand Storm	<p>An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.</p>
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 62-67 kmph</p> <p>Very Severe: Wind speed >67 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 Storm: Wind speed >220 kmph (>119 knots)</p>

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Hot and Humid: When maximum temperatures remain 3°C above normal along with the above normal relative humidity.