Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 09th April, 2025
Time of Issue: 1400 hours IST

Subject: i) Under the influence of Western Disturbance; rainfall along with thunderstorm & lightning, gusty/squally winds likely over Northwest India during 09th-11th April. As a result, prevailing heat wave conditions will decrease significantly from tomorrow, the 10th April.
ii) Heat wave conditions likely to continue over Gujarat and Madhya Pradesh on 09th & 10th April and improve thereafter.
iii) Rainfall along with thunderstorm & lightning is likely to continue over East & Northeast India till 12th April.

i. Realised weather during past 24 hours till 0830 hours IST of today, the 09th April 2025 (Annexure I):

- **Heat wave to severe heat wave conditions** prevailed over most parts of West Rajasthan; in some parts of East Rajasthan, Himachal Pradesh; **Heat wave conditions** prevailed over some parts of Saurashtra & Kutch; in isolated pockets of Punjab, Haryana, Madhya Pradesh, West Uttar Pradesh and Gujarat Region.
- **Warm night conditions** prevailed in isolated pockets of south Haryana, Delhi, Rajasthan, Saurashtra & Kutch and West Madhya Pradesh.
- **Hailstorm** occurred at isolated places over Telangana and Meghalaya.
- **Heavy rainfall** recorded at isolated places over Tamil Nadu and Bihar.
- **Thunderstorm accompanied with Squally/Gusty winds** prevailed at isolated locations over Sub-Himalayan West Bengal & Sikkim, Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, North Interior Karnataka, Madhya Maharashtra, Kerala, Coastal Andhra Pradesh, Assam & Meghalaya, Tripura.

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 Well-Marked Low-pressure area over westcentral & adjoining southwest Bay of Bengal persists over the same region at 0830 hrs IST of today, the 09th April, 2025 with the associated cyclonic circulation extending upto middle tropospheric levels. It is likely to move nearly northwards during next 12 hours over westcentral Bay of Bengal, maintaining the intensity of well marked low pressure area. Thereafter, it is likely to recurve north-northeastwards and weaken gradually over central Bay of Bengal during subsequent 24 hours.
- A trough runs from the above cyclonic circulation over westcentral Bay of Bengal to south Tamil Nadu in lower tropospheric levels.
- A trough runs from southeast Madhya Pradesh to east Gangetic West Bengal in lower tropospheric levels.
- An upper air cyclonic circulation lies over northwest Madhya Pradesh & neighbourhood in lower tropospheric levels.
- Under the influence of these systems;
  - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh &

Yanam, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Central India during 09th-11th; East and Northeast India during 09th-13th April.

- ✓ **Isolated Hailstorm** likely over East Madhya Pradesh on 09th and Jharkhand on 10th April.
- ✓ **Heavy rainfall** very likely at isolated places over Bihar, Arunachal Pradesh on 10th; Sub-Himalayan West Bengal & Sikkim on 10th & 11th; Assam & Meghalaya during 09th-11th April.

❖ **The Western Disturbance as a trough in westerlies in middle tropospheric levels runs roughly along Long. 61°E to the north of Lat. 28°N. An upper air cyclonic circulation lies over West Rajasthan & neighbourhood and a trough runs from West Rajasthan to northwest Vidarbha 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 Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; isolated to scattered rainfall over Himachal Pradesh during 09th-11th and Uttarakhand during 09th-12th April.
- ✓ Isolated rainfall likely over plains of Northwest India during 09th-11th April.
- ✓ **Isolated Hailstorm** likely over Jammu-Kashmir on 09th; Himachal Pradesh on 10th and Uttarakhand on 09th & 10th April.
- ✓ **Duststorm** very likely at isolated places over West Rajasthan during 09th-11th April.
- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** very likely at isolated places over Uttarakhand on 10th & 11th April.

Temperature Forecast:

- ❖ No significant change in maximum temperatures likely over Northwest India, Gujarat and Maharashtra during next 24 hours and fall by 2-4°C during subsequent 3 days; rise by 2-4°C thereafter.
- ❖ No significant change in maximum temperatures likely over West India during next 24 hours and fall by 2-4°C during subsequent 4-5 days.

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

- ❖ **Heat wave conditions** very likely at some/many places over with severe heat wave conditions at isolated pockets over Rajasthan on 09th April and heat wave conditions in isolated pockets on 10th, 14th & 15th April.
- ❖ **Heat wave to severe heat wave conditions** likely in some parts Punjab, Haryana & Delhi, Saurashtra & Kutch on 09th April and heat wave conditions in isolated pockets of Saurashtra & Kutch on 10th April and over Punjab, Haryana & Delhi on 15th April.
- ❖ **Heat wave conditions** very likely in isolated pockets of West Uttar Pradesh on 09th; Madhya Pradesh, Gujarat Region on 09th & 10th April.
- ❖ **Warm night** conditions very likely in isolated pockets of Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Vidarbha, Marathawada, Madhya Maharashtra, Saurashtra & Kutch on 09th; Madhya Pradesh, Rajasthan on 09th &10th April.
- ❖ **Hot & humid** weather is likely to prevail over Konkan & Goa, Madhya Maharashtra, Marathawada, Tamilnadu Puducherry & Karaikal, Kerala & Mahe on 09th April.

iv. Weather conditions and forecast over Delhi/NCR during 09th April to 12th April, 2025 (Annexure V)

For more details, kindly refer National Weather Bulletin:
https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php
For District wise warnings refer: https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php

ANNEXURE I

Significant weather reported during past 24 hours till 0830 hours IST of today:

- **Light/moderate Rainfall** observed at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka, Kerala & Mahe; a few places over Assam & Meghalaya, Arunachal Pradesh, Andaman & Nicobar Islands, Gujarat Region, North Interior Karnataka; at isolated places over Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Marathawada, Madhya Maharashtra, Saurashtra & Kutch, Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and South Interior Karnataka.

Rainfall recorded (in cm):

- **Tamil Nadu:** Taluk Office Pandalur (dist The Nilgiris) 8,
- **Telangana:** Khanapur (dist Warangal) 4, Kothaguda (dist Mahabubabad) 4, Chennaraopet (dist Warangal) 4**,**
- **Bihar: east Champaran- 9,** Sheohar, Supaul, Champaran-4 each

Realised Gusty Winds during past 24hours (Received from RMCs/MCs) in (knots, hrs IST)

North Interior Karnataka: Gadag(35, 1215), Bagalkot_KVK(21, 1500),
Madhya Maharashtra: Niasm_Baramati(25, 1430), Karjat(20,1630),
Chhattisgarh: SUKMA (21, *1245*)
Kerala: Madikkai(21, 1100), Pilicode(23,1230), Padannakkad(25,1215), Kannur AP(28, 1215), Karapuzha(24,0945), Ayyappankovil(22, 1100)
Coastal Andhra Pradesh: Mylavaram(21,1400), KV_Gopannapalem(27, 1300), Venkataramannagudem_Kvk(24, 1230);
Telanagana: Dullapally(24, 1730), Ghatkesar(22, 1700), Wyra_KVK(22, 1430),
Bihar: *East Champaran(35,2200), Supaul(32, 1830),*
Sub-Himalayan West Bengal*: Ramshai(25, 2100), Dhupguri(22,2200),*
Assam & Meghalaya*:* Gossaigaon(22, 2215), Barpeta(23, 2315),
Tripura: A_D_Nagar_AMFU(22, 1200), Gokulpur(27,1145).

ANNEXURE II

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

- Yesterday, the Maximum Temperatures **have risen by 1-2 °C** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gujarat Region, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, North Interior Karnataka, Kerala & Mahe; **fallen by 1-2 °C** over Uttar Pradesh, Madhya Pradesh, Jharkhand, Odisha, Chhattisgarh, south Madhya Maharashtra, Telangana and no significant change over rest parts of the country.

- Yesterday's **Maximum Temperatures** were in the range of **42-45°C** at many places over Rajasthan, Gujarat state; at isolated places over West Madhya Pradesh; **38-42°C** at many places over Marathwada; at a few places over Odisha, East Uttar Pradesh; at isolated places over West Uttar Pradesh, Punjab, Haryana-Chandigarh-Delhi, Tamil Nadu, Puducherry & Karaikal, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam. Yesterday, the highest **maximum temperature of 46.4°C** was reported at **Barmer (West Rajasthan)** over the country. **(Fig.1)**

- Yesterday, Maximum Temperatures were **above normal by 4-7°C** at most places over Rajasthan, Gujarat, Haryana-Chandigarh-Delhi, Punjab, Madhya Pradesh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh, Assam & Meghalaya; **by 1-3°C** at Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Vidarbha, Madhya Maharashtra, Marathawada, Konkan & Goa and Islands. These were **below normal by 1-2°C** at a few places over Telangana, Gangetic West Bengal and Odisha and near normal over rest parts of the country. **(Fig. 2)**

Fig. 1: Maximum Temperatures

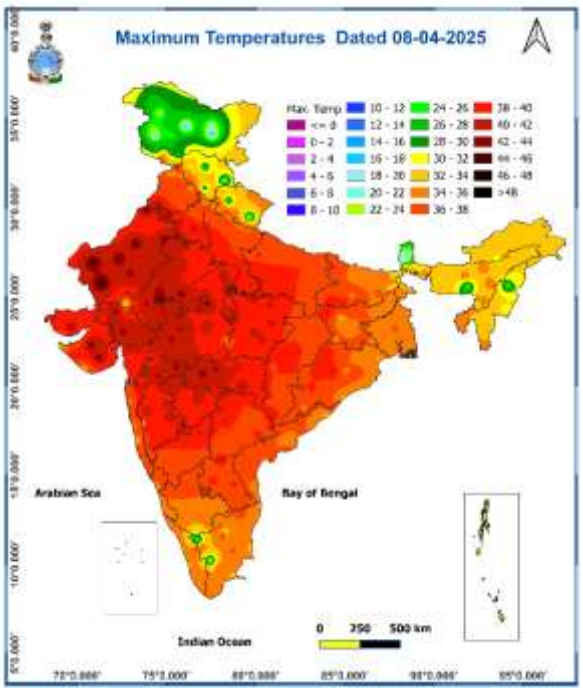
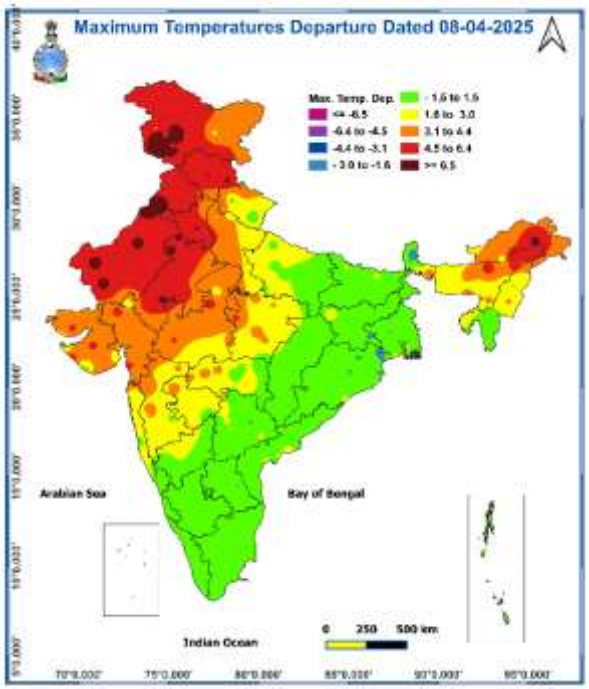


Fig. 2: Departure of Maximum Temperatures

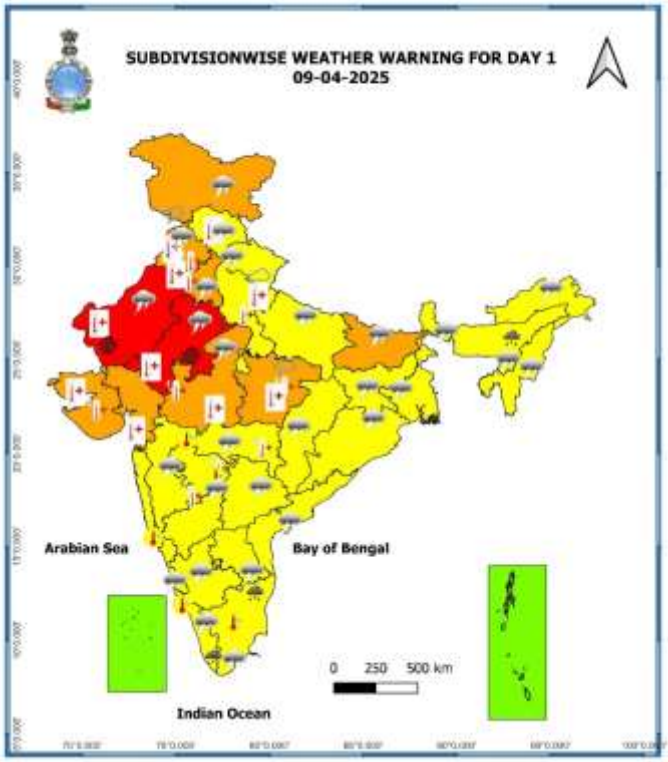


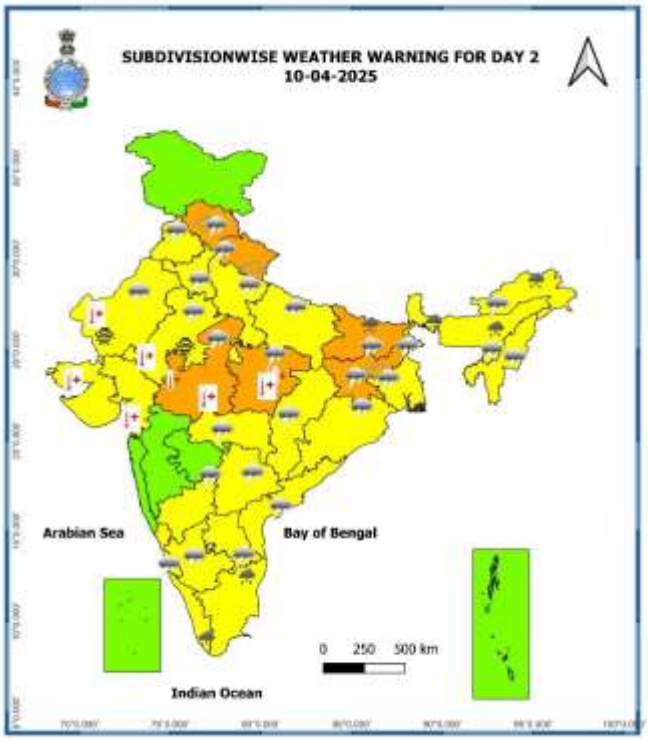
ANNEXURE III

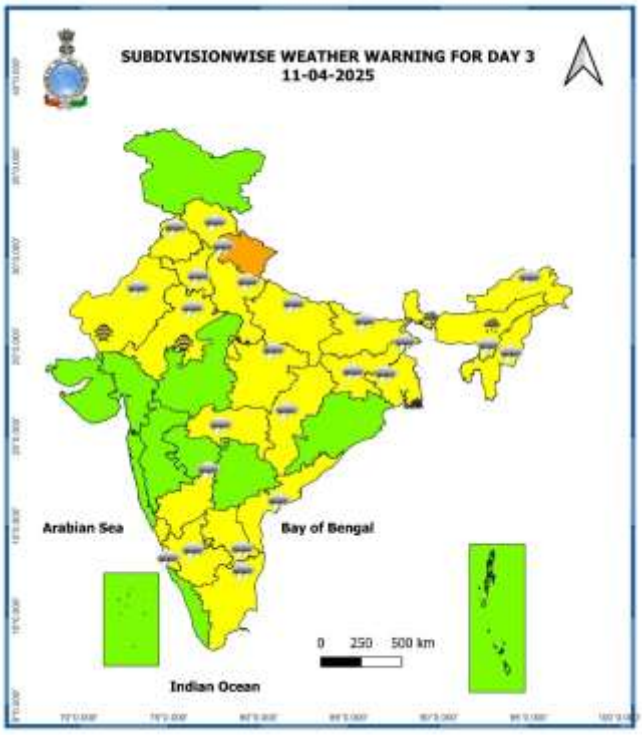
7 Days Rainfall Forecast								
S. No.	Subdivision	09-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	FWS	FWS	FWS	SCT	SCT	SCT
2	ARUNACHAL PRADESH	SCT	SCT	FWS	FWS	SCT	SCT	ISOL
3	ASSAM & MEGHALAYA	FWS	WS	WS	WS	WS	FWS	FWS
4	NAGALAND,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

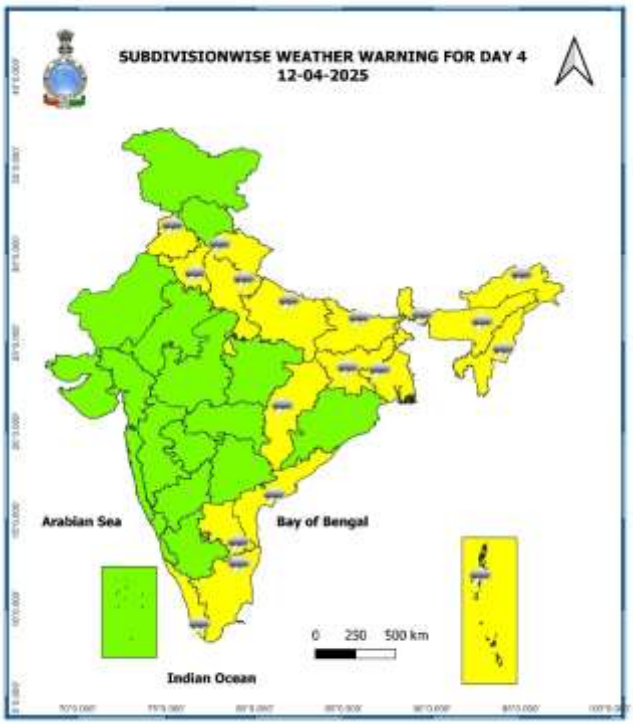
- **As the lead period increases forecast accuracy decreases.**

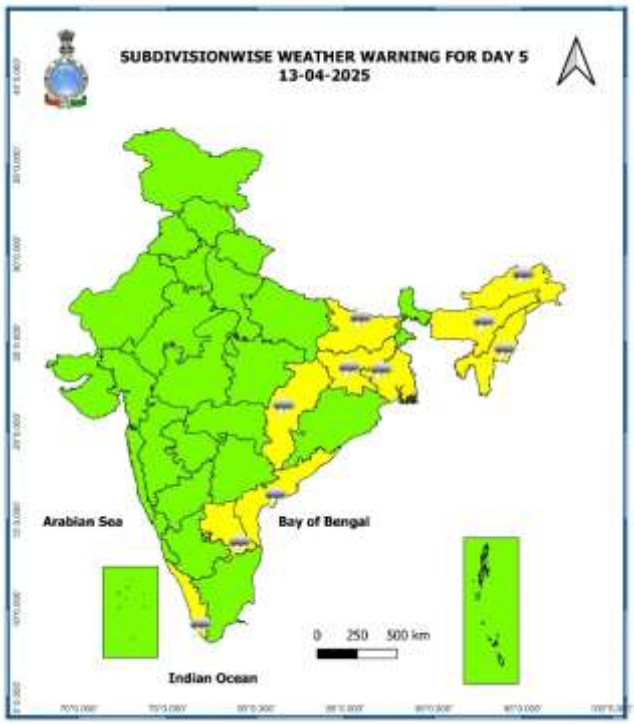
ANNEXURE IV

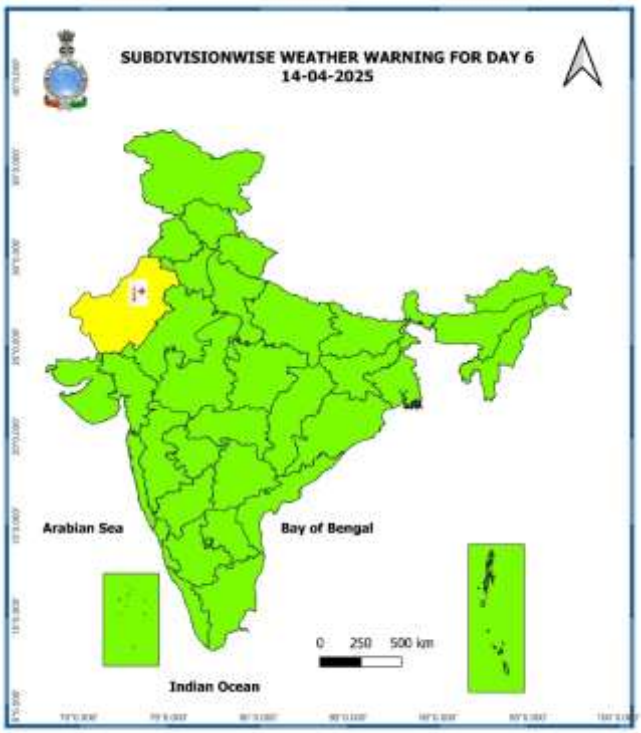

SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
09-04-2025
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km

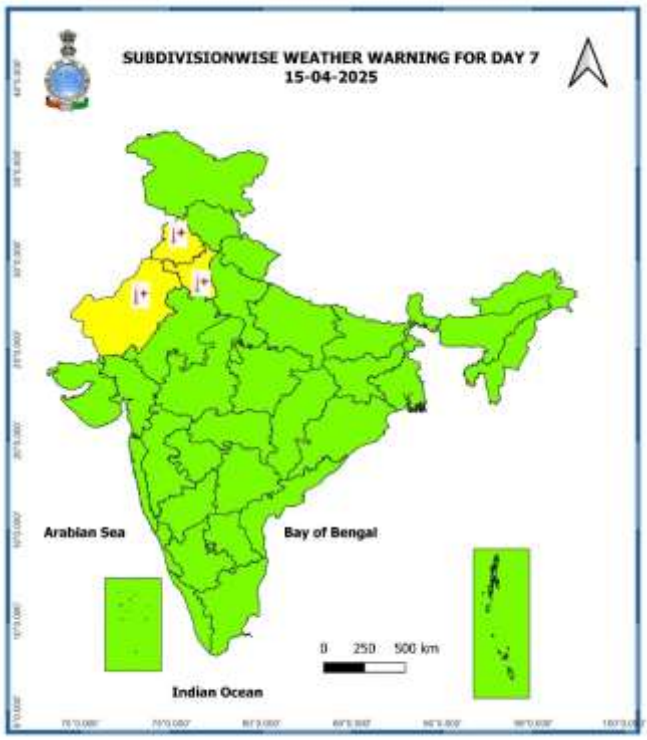

SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
10-04-2025
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km


SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
11-04-2025
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km









- **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

ANNEXURE V

Weather forecast over Delhi/NCR during 09th to 12th Apr. 2025

Past Weather:

There has been rise in minimum temperature upto 03°C and rise in maximum temperature upto 01°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 39 to 41 °C and 24 to 26 °C respectively. The minimum temperature was above normal upto 06°C and maximum temperature was above normal upto 05°C at most places. Mainly clear sky conditions with predominant surface wind from the east 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:

09.04.2025: Mainly clear sky becoming partly cloudy sky from evening. Heat wave and warm night conditions very likely at many places over Delhi. The maximum temperature over Delhi is likely to be in the range of 40 to 42°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 10 kmph till evening. It would increase becoming less than 12 kmph from the east direction during the night.

10.04.2025: Generally cloudy sky. Very light rain/drizzle accompanied with thunderstorm & string surface winds (speed 30-40 kmph) gusting to 50 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 38 to 40°C and 24 to 26°C respectively. The predominant surface wind will likely be from the east direction with a wind speed of 08-10 kmph during morning hours. The wind speed will gradually increase thereafter becoming 12-14 kmph from the southeast direction during the afternoon. It will increase becoming less than 20 kmph from the southeast direction during evening and night.

11.04.2025: Generally cloudy sky. Very light rain/drizzle accompanied with thunderstorm & string surface winds (speed 30-40 kmph) gusting to 50 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 36 to 38°C and 23 to 25°C respectively. The predominant surface wind will likely be from the southeast direction with a wind speed of 16-18 kmph during morning hours. The wind speed will gradually decrease becoming 20-22 kmph from the southeast direction in the afternoon. It will decrease becoming less than 16 kmph from the southeast direction during evening and night.

12.04.2025: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 35 to 37°C and 18 to 20°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 becoming 08-10 kmph from the southeast direction in the afternoon. It will increase becoming less than 20 kmph from the southeast direction during evening and night.

Impact expected and action suggested due to Heat wave to severe heat wave conditions likely at many parts of Rajasthan and isolated to some pockets over Gujarat state, Punjab, Haryana & Delhi and Madhya Pradesh on 09th 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.

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh on 09th; Himachal Pradesh, Jharkhand on 10th; Uttarakhand during 09th-11th 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.

Legends & abbreviations:

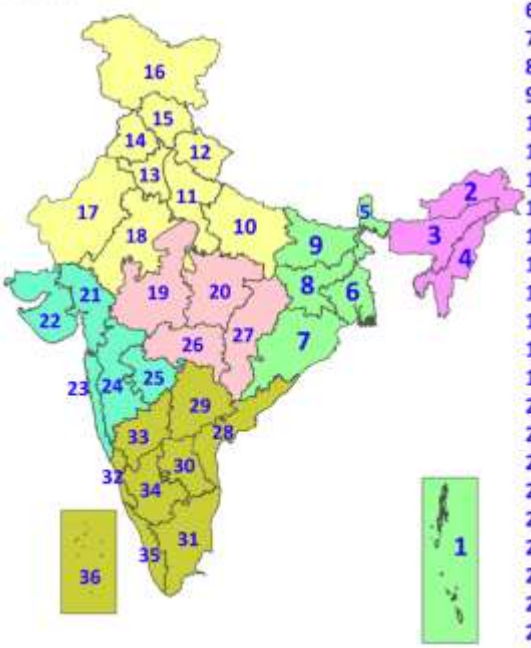
- **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- **Obsy:** Observatory; **AWS:** Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District: **NH:** National Highway; **KVK**: Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **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.

राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

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

* 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)

राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

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 ≥40° C for plains and ≥30° 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 ≥6.5° C **(b). Based on Actual maximum temperature** **Heat Wave:** When actual maximum temperature ≥45°C. **Severe Heat Wave:** When actual maximum temperature ≥47°C **(c). Criteria for heat wave for coastal stations** When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°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 °C.
Cold Wave	**When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C **(b) Based on actual Minimum Temperature (for Plains only)** **Cold Wave :** When Minimum Temperature is ≤ 4.0 °C **Severe Cold Wave:** When Minimum Temperature is ≤ 2.0 °C **(c) For Coastal Stations** When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
Cold Day	**When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C
Fog	**Phenomenon of small droplets suspended in air and the horizontal visibility < 1km** **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 ≤4°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.