

Saturday, April 5, 2025  
Time of Issue: 1430 hours IST  
(MID-DAY)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### Weather Systems, Forecast and Warnings:

- ❖ An upper air Cyclonic Circulation lay over northeast Assam & neighbourhood in the lower tropospheric level.
- ❖ A cyclonic circulation lies over southeast Bay of Bengal & neighbourhood in lower tropospheric level.
- ❖ A north-south trough runs from north Madhya Maharashtra to north Tamil Nadu across Interior Karnataka 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 Kerala & Mahe, Karnatak, Andhra Pradesh, Tamil Nadu on 05<sup>th</sup> & 06<sup>th</sup>; Andaman & Nicobar Islands on 05<sup>th</sup> & 06<sup>th</sup>; Northeast India during 05<sup>th</sup>- 09<sup>th</sup> and Bihar, Odisha, West Bengal and Jharkhand during 07<sup>th</sup>-09<sup>th</sup> April.
  - ✓ **Isolated Hailstorm** likely over Assam & Meghalaya on 05<sup>th</sup> & 06<sup>th</sup> April and Bihar on 8<sup>th</sup> April.
  - ✓ **Heavy rainfall** very likely at isolated places over Kerala & Mahe, Tamil Nadu on 05<sup>th</sup> & 06<sup>th</sup>; South Interior Karnataka on 05<sup>th</sup>; Assam & Meghalaya and Andaman & Nicobar Islands on 06<sup>th</sup> April.
- ❖ **A fresh Western Disturbance is likely to affect Western Himalayan region from 08<sup>th</sup> April, 2025.**
  - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and isolated to scattered rainfall over Himachal Pradesh and Uttarakhand during 08<sup>th</sup>-11<sup>th</sup> April.
  - ✓ **Isolated Hailstorm** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 09<sup>th</sup> April.

#### Temperature Forecast:

- ❖ Gradual rise in maximum temperatures by 3-5°C likely over many parts of Northwest India during 05<sup>th</sup>-08<sup>th</sup> and fall by 2-3°C during 09<sup>th</sup>-10<sup>th</sup> April.
- ❖ Gradual rise in maximum temperatures by 3-5°C likely over many parts of central India during 05<sup>th</sup>-07<sup>th</sup> and no significant change during 08<sup>th</sup>-11<sup>th</sup> April.
- ❖ Gradual rise in maximum temperatures by 3-4°C likely over Maharashtra & south peninsular India during 05<sup>th</sup>-11<sup>th</sup> April.
- ❖ Rise in maximum temperatures by about 2°C likely over Gujarat during 05<sup>th</sup>-06<sup>th</sup> and no significant change during 07<sup>th</sup>-11<sup>th</sup> April.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over many parts of east India (except Bihar) during 05<sup>th</sup>-07<sup>th</sup> and no significant change during 08<sup>th</sup>-11<sup>th</sup> April.
- ❖ No significant change in maximum temperatures likely over rest parts of the country during 05<sup>th</sup>-11<sup>th</sup> April.

#### Heat wave and Hot & Humid weather warning:

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

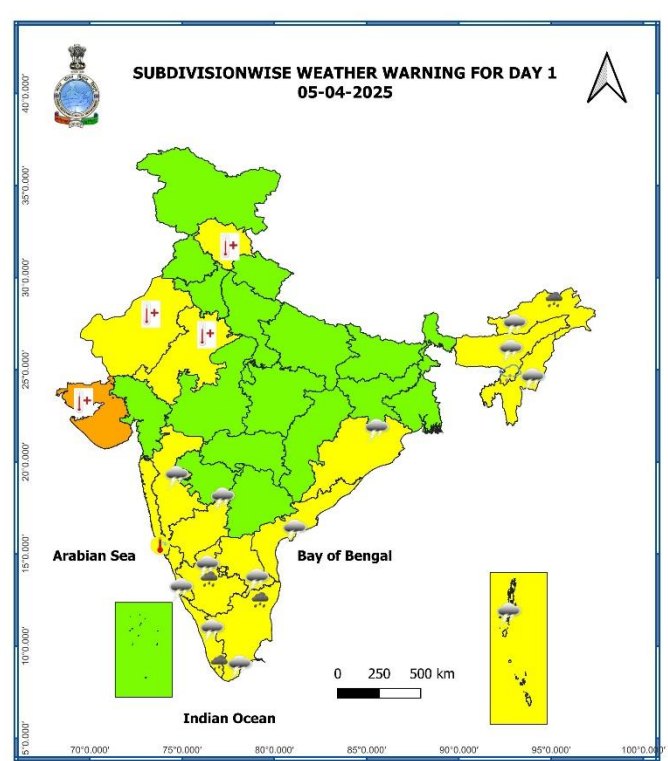
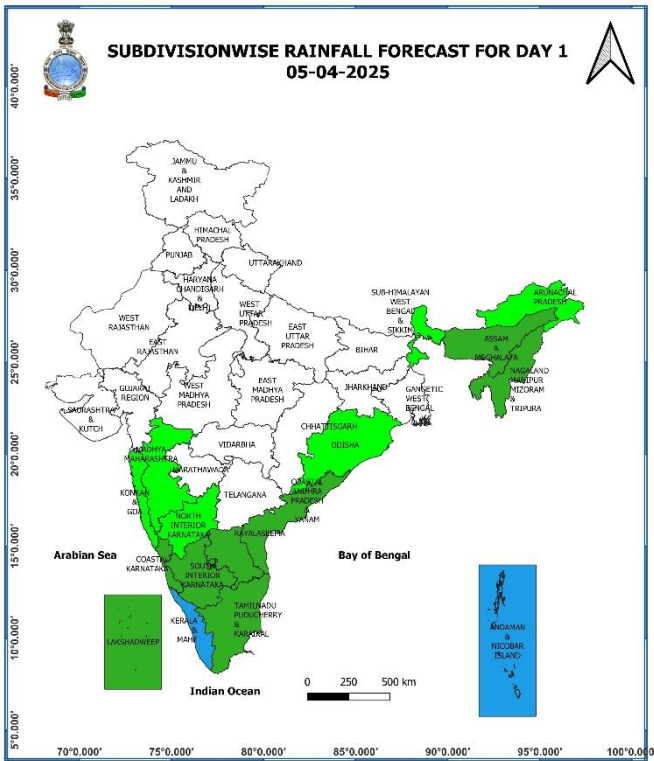
## Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at many places** over Andaman & Nicobar Islands; **at a few places** over Tamil Nadu, Puducherry & Karaikal; **at isolated places** over East Uttar Pradesh, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Odisha, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Heavy to very heavy rainfall** occurred at isolated places over Tamil Nadu; **heavy rainfall** at isolated places over South Interior Karnataka, Kerala and Arunachal Pradesh.
- ❖ **Significant amount of rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): **Tamil Nadu:** Kozhiporvilai (dist Kanyakumari) 19, Gobichettipalayam (dist Erode), Tiruppur\_PWD (dist Tiruppur) 15 each, DC Office Tiruppur (dist Tiruppur), Adayamadai (dist Kanyakumari), Pechiparai (dist Kanyakumari) 13 each, Uthukuli (dist Tiruppur) 12, Tiruppur North (dist Tiruppur) 11, Colachel (dist Kanyakumari), Elanthakuttai Medu (dist Erode), Tiruppur South (dist Tiruppur) 10 each, Kavundapadi (dist Erode), Kil Kotagiri Estate (dist The Nilgiris), Sothuparai (dist Theni) 9 each, Nambiyur (dist Erode), Coimbatore AP (dist Coimbatore), Sulur (dist Coimbatore) 8 each, Annur (dist Coimbatore), Avinasi (dist Tiruppur), Eraniel (dist Kanyakumari), TNAU Coimbatore (dist Coimbatore), Oothu (dist Tirunelveli), Natham AWS (dist Dindigul), Rameswaram (dist Ramanathapuram), Ramanadhi Dam Section (dist Tenkasi), Coimbatore\_AMFU AWS (dist Coimbatore) 7 each; **Kerala & Mahe:** Konni Arg (dist Pathanamthitta) 7, Vadakara (dist Kozhikode) 6, Alathur (dist Palakkad) 6, Malampuzha Dam Aws (dist Palakkad) 6; **South Interior Karnataka:** Begur (dist Chamarajanagar) 9, Krishnarajasagara (dist Mandya) 8, Gundlupet (dist Chamarajanagar) 7; **Arunachal Pradesh:** Tuting (dist Upper Siang) 7, Tuting\_Aws (dist Upper Siang) 4
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** prevailed at isolated locations over Chhattisgarh, Rayalaseema, Madhya Maharashtra, North Interior Karnataka, Tamilnadu and Kerala.
- ❖ **Heatwave to severe heatwave conditions** prevailed at isolated pockets over Saurashtra & Kutch.
- ❖ **Minimum Temperature Departures (as on 05-04-2025):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Saurashtra & Kutch; **above normal (1.6°C to 3.0°C)** at a few places over West Rajasthan, Madhya Maharashtra, Gangetic West Bengal and Andaman & Nicobar Islands; at isolated places over Himachal Pradesh, Uttarakhand, Gujarat Region, Odisha, Coastal Andhra Pradesh & Yanam and Lakshadweep. These are **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal; **below normal (-3.0°C to -1.6°C)** at isolated places over Haryana-Chandigarh, Vidarbha and Kerala & Mahe and near normal over rest parts of the country (**Fig. 4**). Today, the **lowest minimum temperature of 13.8°C** is reported at **Karnal (Haryana)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 04-04-2025):** Maximum Temperatures were **markedly above normal (5.1°C or more)** at isolated places over Saurashtra & Kutch; **appreciably above normal (3.1°C to 5.0°C)** at many places over Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh and Uttarakhand; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over West Uttar Pradesh, Rajasthan, Gujarat Region, Assam & Meghalaya and Coastal Andhra Pradesh & Yanam ; **above normal (1.6°C to 3.0°C)** at many places over East Uttar Pradesh, Konkan & Goa and Coastal Karnataka; at isolated places over Bihar, Madhya Pradesh, West Bengal & Sikkim, Odisha, Mizoram & Tripura and Lakshadweep. These were **markedly below normal (-5.1°C or less)** at isolated places over Andaman & Nicobar Islands; **appreciably below normal (-3.1°C to -5.0°C)** at many places over North Interior Karnataka; at a few places over South Interior Karnataka, Rayalaseema and Telangana; at isolated places over Marathwada, Chhattisgarh and Tamil Nadu, Puducherry & Karaikal; **below normal (-3.0°C to -1.6°C)** at a few places over Madhya Maharashtra and Jharkhand; at isolated places over Vidarbha and near normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature of 44.5°C** was reported at **Bhuj (Saurashtra & Kutch)** over the country.

## Meteorological Analysis (Based on 0830 hours IST)

- ❖ The **Western Disturbance** as a trough in westerlies with its axis at 5.8 km above mean sea level roughly along Long. 85°E to the north of Lat. 25°N persists.
- ❖ The upper air **Cyclonic Circulation** over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over central parts of Madhya Pradesh at 0.9 km above mean sea level persists.
- ❖ The **cyclonic circulation** over south Andaman & neighbourhood now lies over southeast Bay of Bengal & neighbourhood and extends upto 3.1 km above mean sea level.
- ❖ A north-south **trough** runs from north Madhya Maharashtra to north Tamil Nadu across Interior Karnataka at 0.9 km above mean sea level.
- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan region from 08<sup>th</sup> April, 2025.

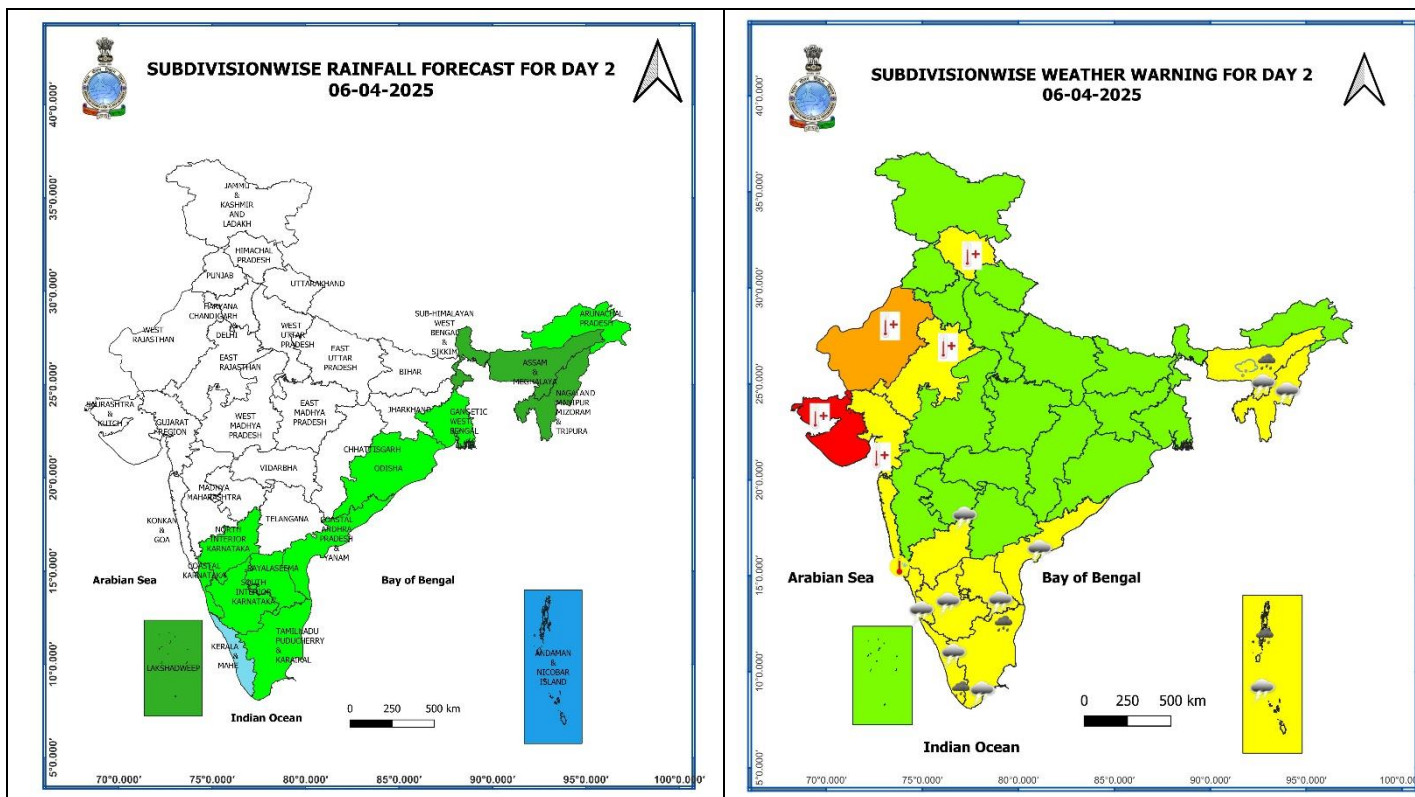
**Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 12<sup>th</sup> April, 2025)**



**05<sup>th</sup> April (Day 1):**

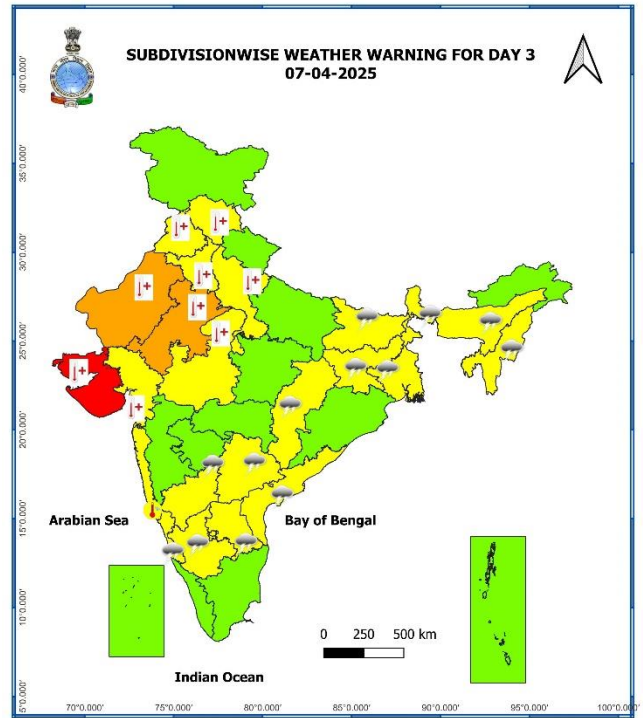
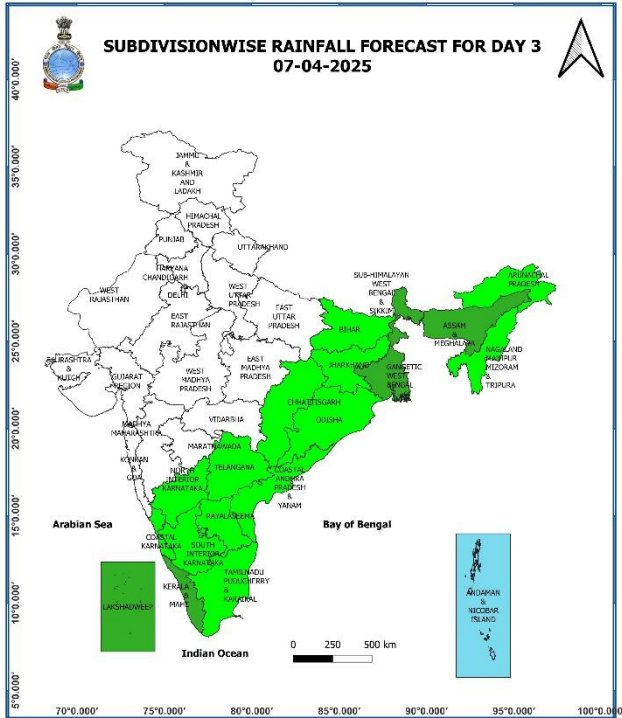
- ❖ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 - 50 kmph) & Hailstorm** very likely at isolated places over Assam & Meghalaya; **with lightning & gusty winds (speed reaching 40 - 50 kmph)** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, and Kerala & Mahe; **with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Andaman & Nicobar Islands, Odisha, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka; **with lightning** at isolated places over Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Coastal & North Interior Karnataka.
- ❖ **Heat wave to severe heat wave conditions** very likely in isolated pockets of Saurashtra & Kutch; **Heat wave conditions** in isolated pockets of Himachal Pradesh and Rajasthan.
- ❖ **Hot and humid weather** very likely in isolated pockets of Konkan & Goa.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over Andaman Sea. Fishermen are advised not to venture into these areas.





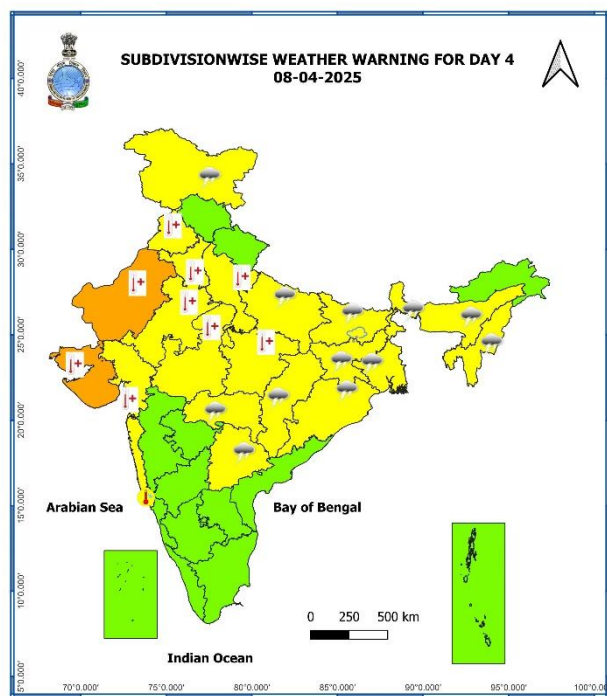
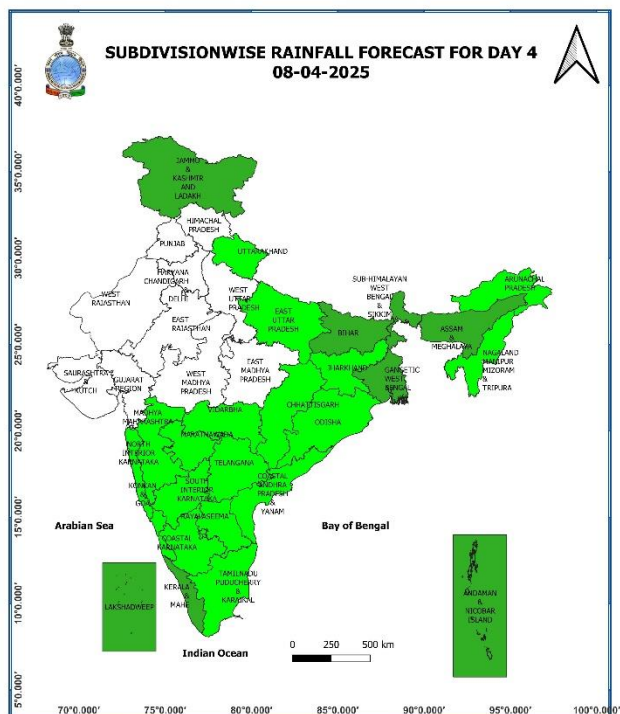
### 06<sup>th</sup> April (Day 2):

- ❖ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 - 50 kmph) & Hailstorm** very likely at isolated places over Assam & Meghalaya; **with lightning & gusty winds (speed reaching 40 - 50 kmph)** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Andhra Pradesh & Yanam; **with lightning** at isolated places over Rayalaseema and Karnataka.
- ❖ **Heat wave to severe Heat wave conditions** very likely in isolated pockets of West Rajasthan and Saurashtra & Kutch; **Heat wave conditions** in isolated pockets of Himachal Pradesh, East Rajasthan and Gujarat Region.
- ❖ **Hot and humid weather** very likely in isolated pockets of Konkan & Goa.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over Andaman sea adjoining parts of southeast & eastcentral Bay of Bengal. Fishermen are advised not to venture into these areas.



**07<sup>th</sup> April (Day 3):**

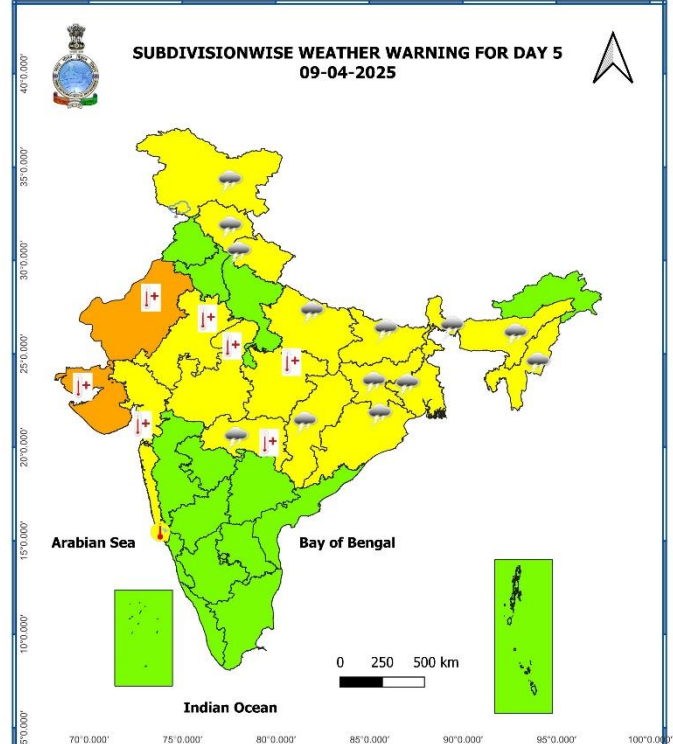
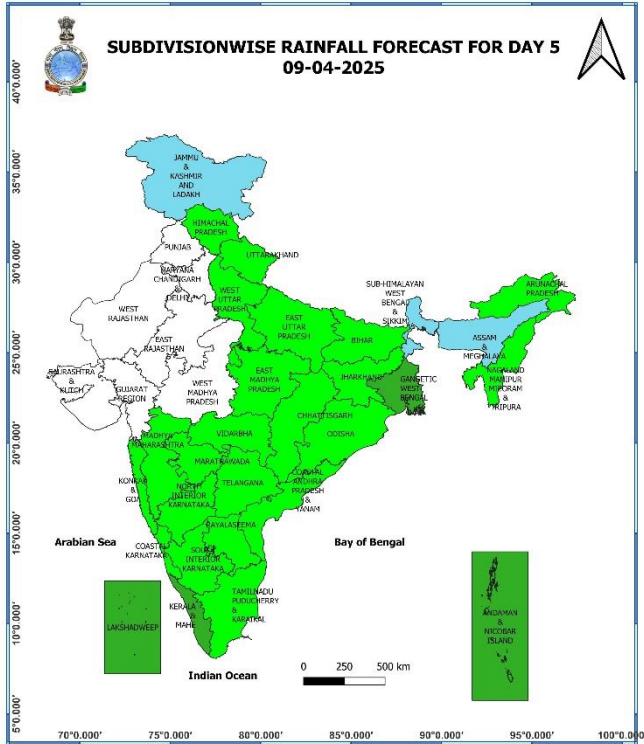
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 - 50 kmph)** at isolated places over West Bengal & Sikkim; **with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Chhattisgarh, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Telangana and Karnataka.
- ❖ **Heat wave to severe Heat wave conditions** very likely in some parts of Saurashtra & Kutch and in isolated pockets of Rajasthan; **Heat wave conditions** in isolated pockets of Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, West Madhya Pradesh and Gujarat Region.
- ❖ **Hot and humid weather** very likely in isolated pockets of Konkan & Goa.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over Andaman sea, eastern parts of southeast Bay of Bengal & adjoining parts of eastcentral Bay of Bengal. Fishermen are advised not to venture into these areas.



### 08<sup>th</sup> April (Day 4):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 - 50 kmph) & Hailstorm** at isolated places over Bihar; **with lightning & gusty winds (speed reaching 40 - 50 kmph)** at isolated places over Jharkhand; **with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha; **with lightning** at isolated places over East Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Telangana..
- ❖ **Heat wave to severe Heat wave conditions** very likely in some parts of West Rajasthan and Saurashtra & Kutch; **Heat wave conditions** in isolated pockets of Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Madhya Pradesh and Gujarat Region.
- ❖ **Hot and humid weather** very likely in isolated pockets of Konkan & Goa.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northern parts of southeast Bay of Bengal and adjoining eastcentral Bay of Bengal. Fishermen are advised not to venture into these areas.

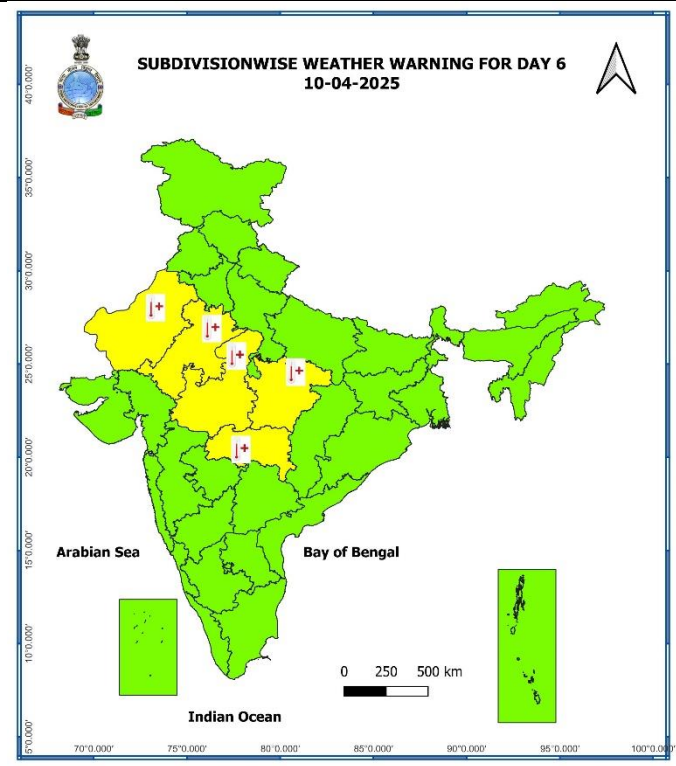
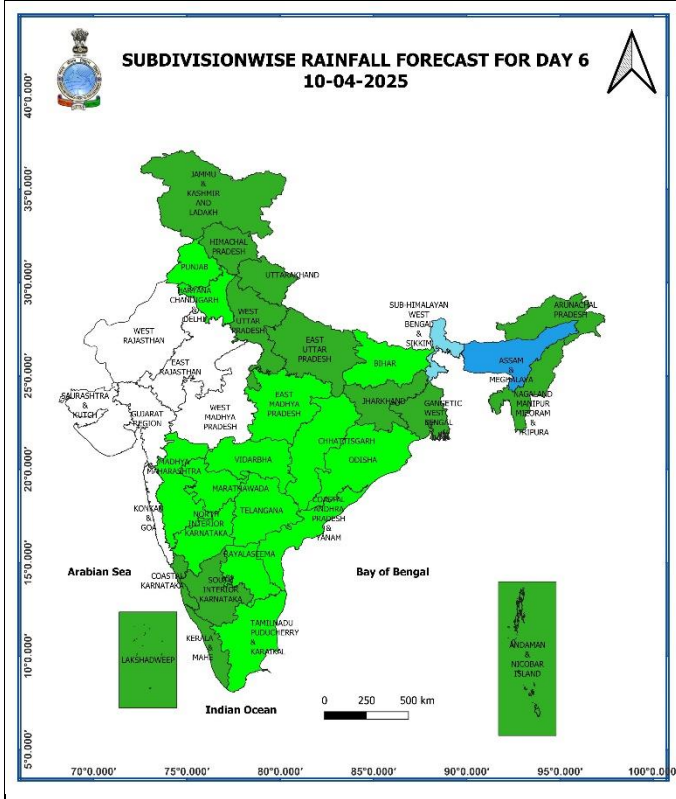




### 09<sup>th</sup> April (Day 5):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 - 40 kmph) & Hailstorm** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **with lightning & gusty winds (speed reaching 40 - 50 kmph)** at isolated places over Gangetic West Bengal, Jharkhand; **with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Himachal Pradesh, Uttarakhand, Vidarbha, Chhattisgarh and Odisha; **with lightning** at isolated places over East Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Heat wave to severe Heat wave conditions** very likely in some parts of Saurashtra & Kutch and in isolated pockets of West Rajasthan; **Heat wave conditions** in isolated pockets of Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Madhya Pradesh and Gujarat Region.
- ❖ **Hot and humid weather** very likely in isolated pockets of Konkan & Goa.

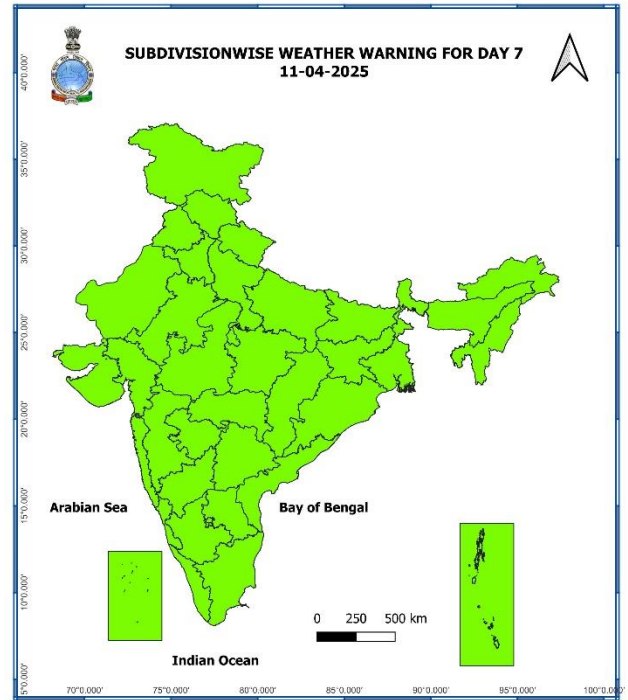
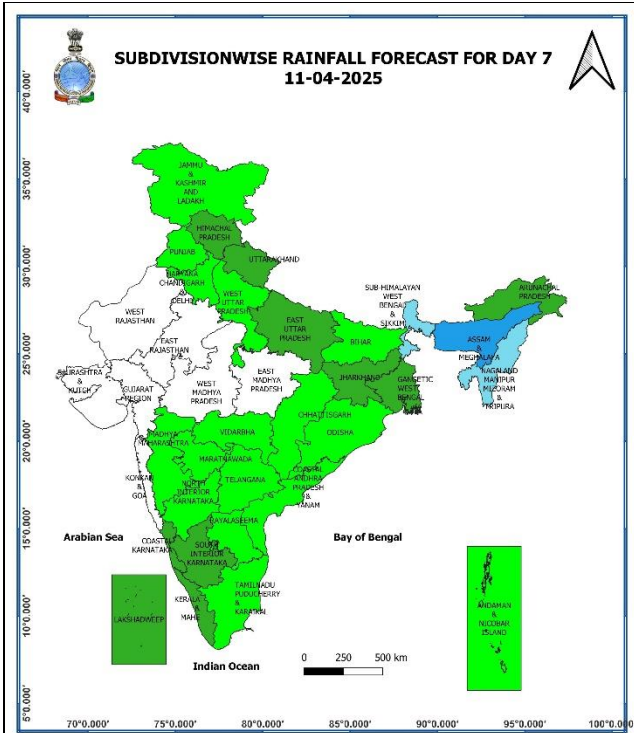




**10<sup>th</sup> April (Day 6):**

❖ **Heat wave conditions** likely in isolated pockets over Rajasthan, Madhya Pradesh and Vidarbha.

**\* 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)



**10<sup>th</sup> April (Day 7):**

❖ **No weather warning.**

### Weather Outlook for subsequent 3 days (During 12<sup>th</sup> April- 14<sup>th</sup> April, 2025)

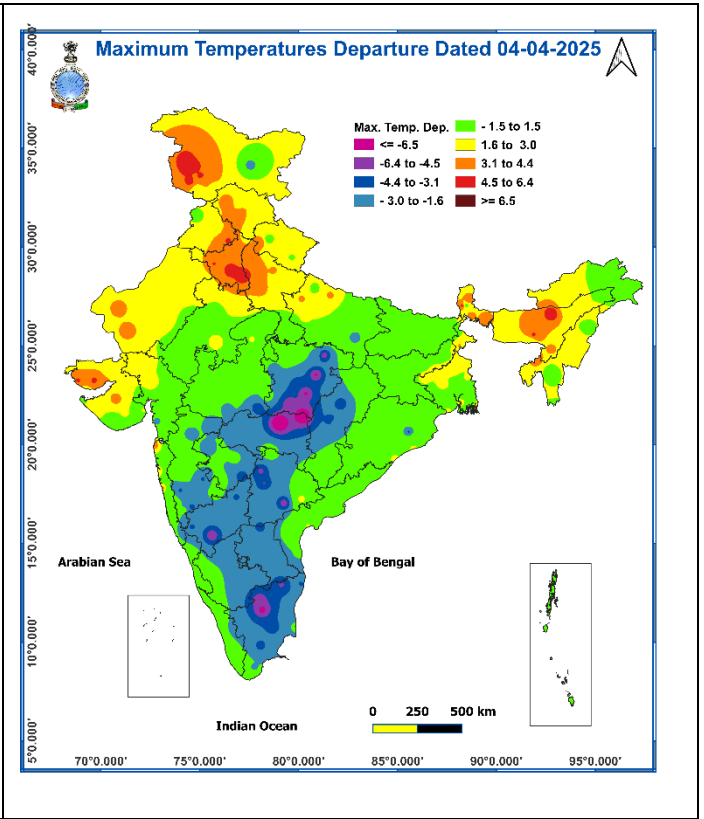
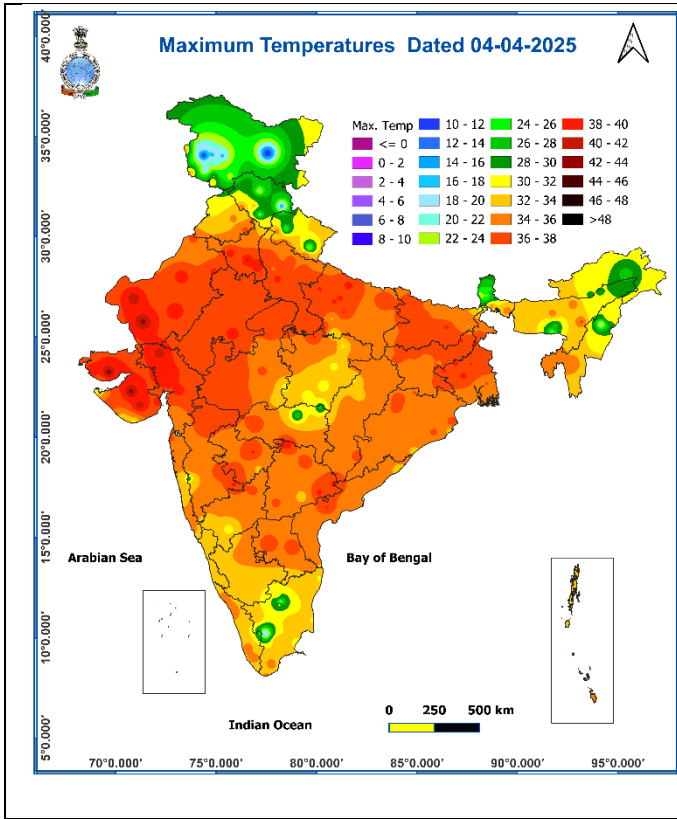
❖ **Isolated to scattered rainfall** likely over Western Himalayan Region and Northeast India, Chhattisgarh, Odisha, Vidarbha & Maharashtra and south peninsular India.

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.

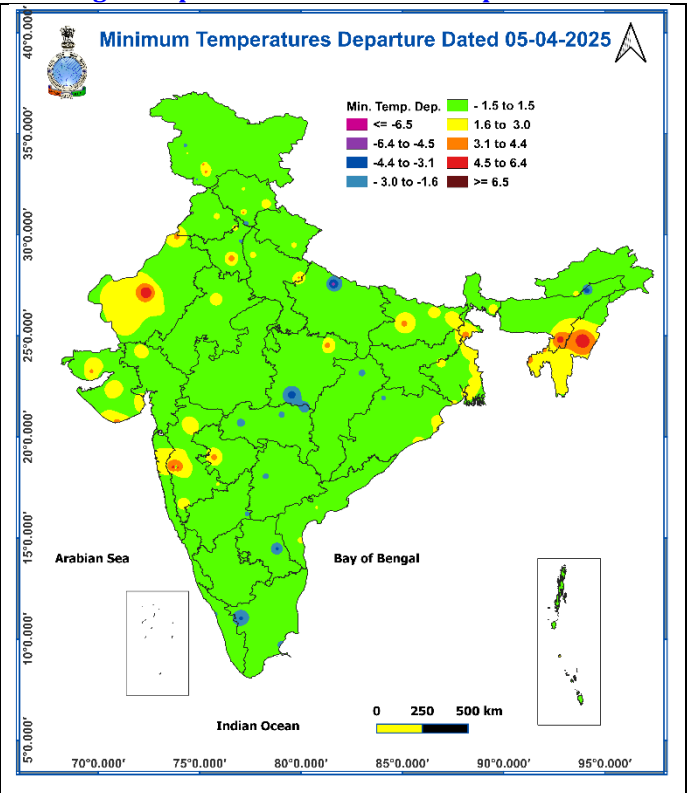
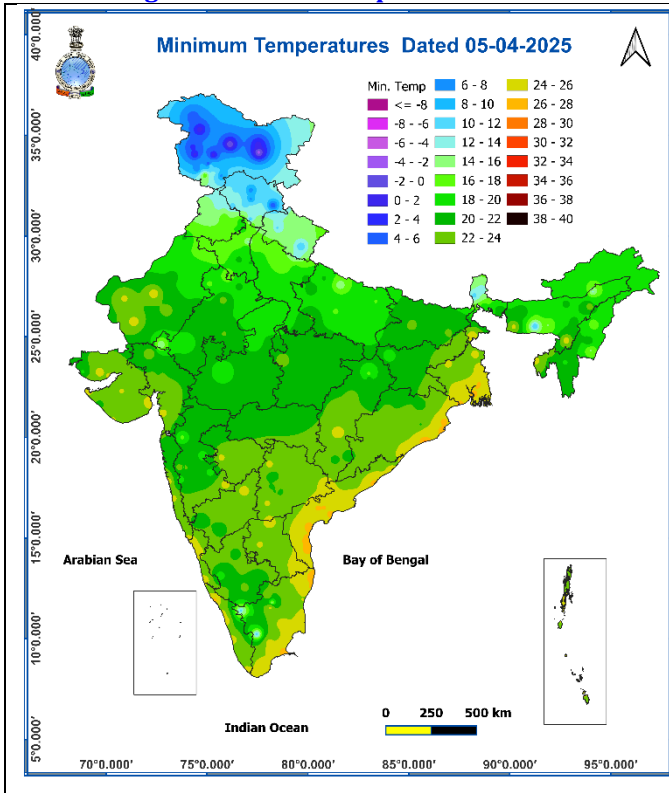
**Fig. 1: Maximum Temperatures**

**Fig. 2: Departure of Maximum Temperatures**



**Fig. 3: Minimum Temperatures**

**Fig. 4: Departure of Minimum Temperatures**



**\* 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)

## Impact expected and action suggested due to

- ❖ Heat Wave to severe heat wave conditions very likely to continue to prevail at isolated to few pockets of Saurashtra & Kutch during 05<sup>th</sup>-09<sup>th</sup>; over West Rajasthan during 06<sup>th</sup>-09<sup>th</sup> and East Rajasthan on 07<sup>th</sup> April.
- ❖ Heat wave conditions very likely in isolated pockets of Rajasthan during 05<sup>th</sup>-10<sup>th</sup>; West Uttar Pradesh, south Haryana, Delhi, Punjab on 07<sup>th</sup>-08<sup>th</sup>; Himachal Pradesh during 05<sup>th</sup>-07<sup>th</sup>; Gujarat Region during 06<sup>th</sup>-09<sup>th</sup>; West Madhya Pradesh during 07<sup>th</sup>-10<sup>th</sup>, East Madhya Pradesh on 08<sup>th</sup> & 09<sup>th</sup> and Vidarbha on 09<sup>th</sup> & 10<sup>th</sup> 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 Assam & Meghalaya on 05<sup>th</sup> & 06<sup>th</sup> and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 09<sup>th</sup> April, 2025.

### 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.



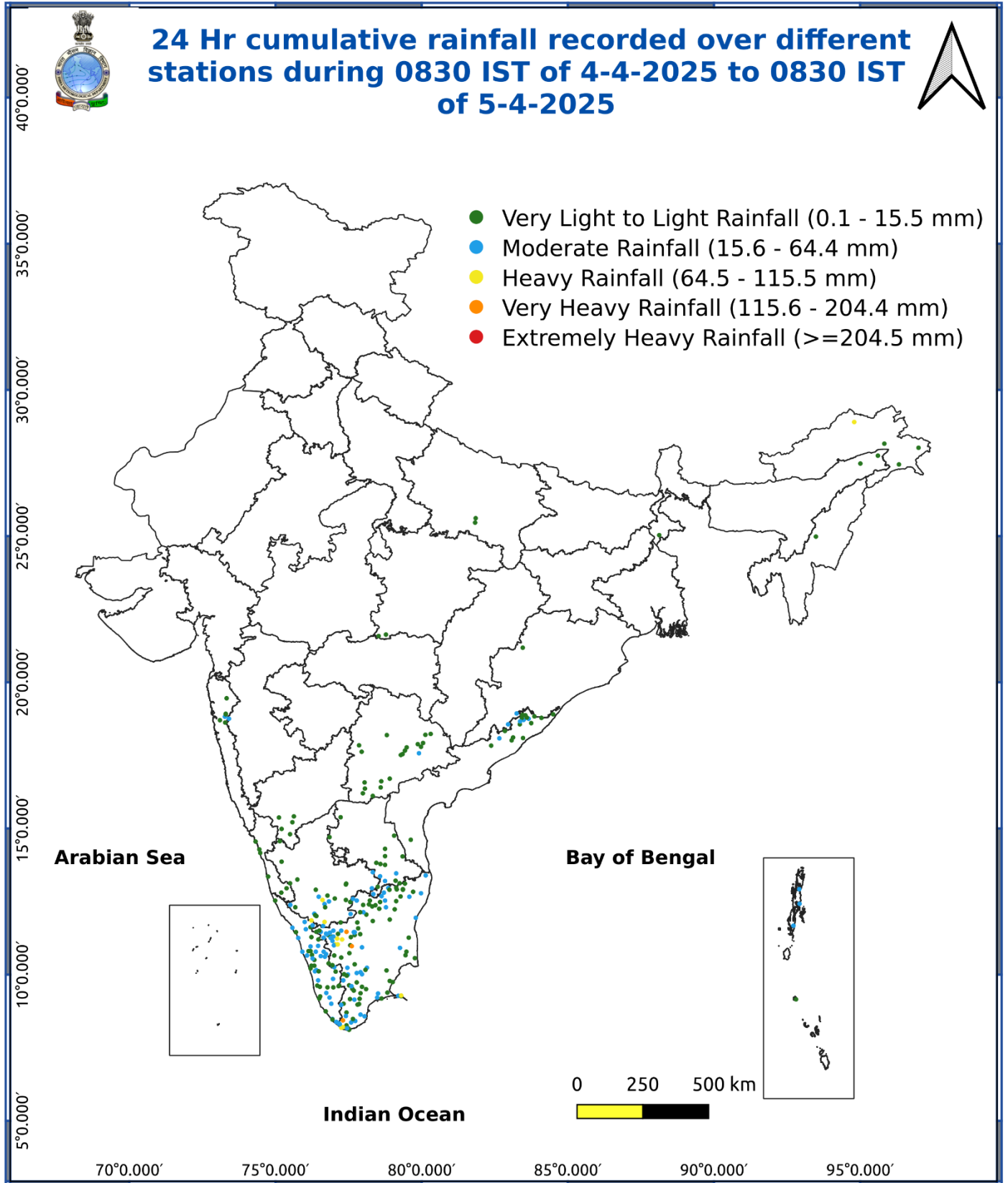
## Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heatwave

- In **Tamilnadu, Kerala, South Interior Karnataka** and **Arunachal Pradesh** drain out excess water from standing crop and vegetable fields.
- In **Andaman & Nicobar Islands** and **Assam & Meghalaya**, 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 **Assam** and **Meghalaya**, use hail net and hail caps to prevent mechanical damage in orchards due to hailstorms.
- In **Punjab, Haryana, West Uttar Pradesh, Rajasthan, Himachal Pradesh, Gujarat State and Madhya Pradesh**, 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.

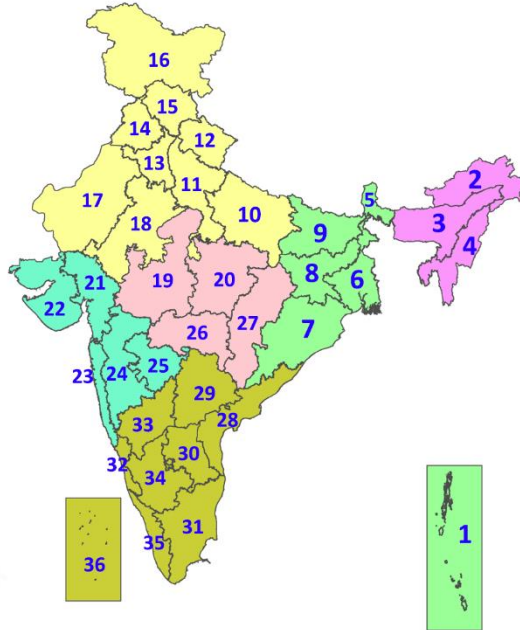
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



\* 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)

## 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)



### COLOUR CODED WARNING

No Warning (No Action)
Watch (Be Aware)
Alert (Be Prepared To Take Action)
Warning (Take Action)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



### DEFINITION/CRITERIA

#### Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm \*  
Extremely Heavy: > 204.4 mm/cm \*

#### Heat Wave

When maximum temperature of a station reaches  $\geq 40^\circ\text{C}$  for plains and  $\geq 30^\circ\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
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  $40^\circ\text{C}$

Warm Night: When minimum temperature departure  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
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)

**Hot and Humid:** When maximum temperatures remains  $3^\circ\text{C}$  above normal along with the above normal relative humidity.