

Monday, April 7, 2025
Time of Issue: 1315 hours IST
(MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

- ❖ Under the influence of an upper air cyclonic circulation over southeast Bay of Bengal & neighbourhood, a Low-Pressure Area has formed over central parts of south Bay of Bengal at 0830 hrs IST of today, the 07th April, 2025. It is likely to move northwestwards over southwest Bay of Bengal till 08th April and thereafter likely to move nearly northwards over westcentral Bay of Bengal during subsequent 48 hours.
- ❖ A trough runs from the above cyclonic circulation over southeast Bay of Bengal to south Tamil Nadu across southwest Bay of Bengal in lower tropospheric levels.
- ❖ Another trough runs from East Bihar to North Telangana in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over northeast Jharkhand and another over east Assam in lower tropospheric level.
- ❖ 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 on 07th & 08th; Karnataka during 07th-09th; East and Northeast India during 07th-11th April.
 - ✓ **Isolated Hailstorm** likely over Assam & Meghalaya, Bihar on 08th and Jharkhand on 09th April.
 - ✓ **Heavy rainfall** very likely at isolated places over Tamil Nadu, Kerala & Mahe on 07th & 08th and over Assam & Meghalaya on 08th April.
- ❖ **A fresh Western Disturbance is likely to affect Western Himalayan region from 08th April, 2025.**
 - ✓ **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 and isolated to scattered rainfall over Himachal Pradesh and Uttarakhand during 09th-11th April and isolated rainfall over plains of Northwest India on 10th April.
 - ✓ **Isolated Hailstorm** likely over Jammu-Kashmir on 09th April.

Temperature Forecast:

- ❖ Gradual rise in maximum temperatures by 2-3°C likely over many parts of Northwest India, Maharashtra during next 3 days and fall by 2-4°C during subsequent 2 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over many parts of central India during next 3 days and no significant change during subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over many parts of East India during next 24 hours and fall by 2-3°C during subsequent 4 days and no significant change during subsequent 2 days.
- ❖ No significant change in maximum temperatures likely over Gujarat state during next 3 days and fall by 2-3°C during subsequent 4 days.

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

- ❖ Heat wave conditions likely at isolated to some pockets over Saurashtra & Kutch, East Rajasthan during 07th-09th April with severe heat wave conditions at isolated pockets over Saurashtra & Kutch on 07th & 08th April.
- ❖ Heat wave conditions very likely at some/many places over West Rajasthan during 07th-10th April with severe heat wave conditions at isolated pockets on during 07th-09th April.
- ❖ Heat wave conditions very likely in isolated pockets of Himachal Pradesh, Delhi on 07th & 08th; Haryana, Chandigarh, West Madhya Pradesh, Gujarat Region during 07th-10th; Punjab during 08th -10th; West Uttar Pradesh, Vidarbha on 08th & 09th; East Madhya Pradesh during 08th-10th April.
- ❖ Warm night conditions very likely in isolated pockets of Rajasthan, Madhya Pradesh during 07th-09th; Saurashtra & Kutch on 07th & 08th April.
- ❖ Hot & humid weather is likely to prevail over coastal areas of Gujarat State during 07th-10th and Konkan & Goa during 07th-09th April.

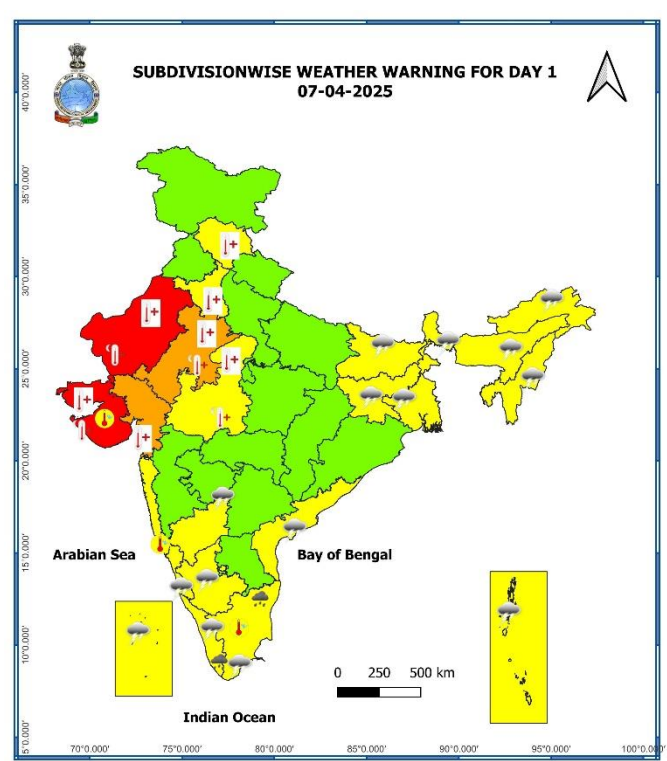
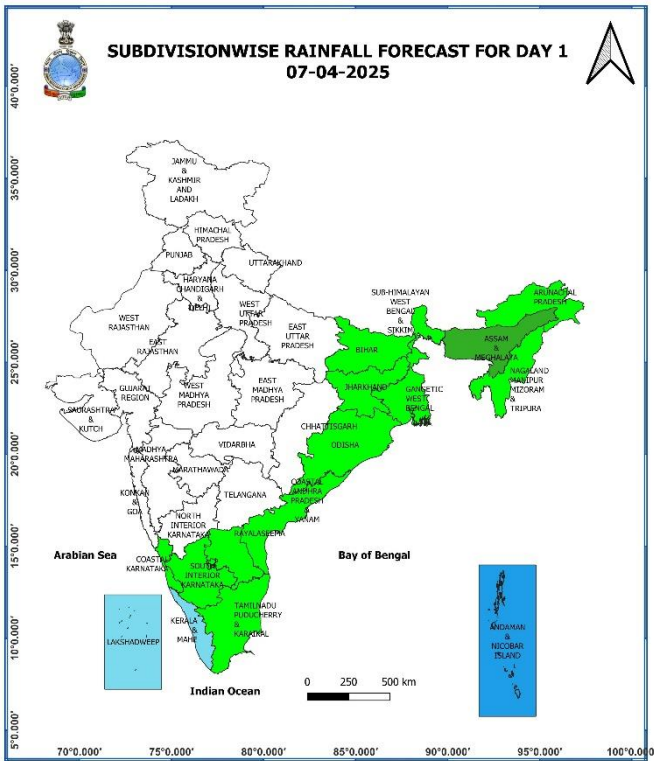
Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Andaman & Nicobar Islands, Kerala & Mahe; at few places over Tamilnadu Puducherry & Karaikal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Arunachal Pradesh, Interior Karnataka and West Bengal & Sikkim.
- ❖ **Heavy to very heavy rainfall** recorded at isolated places over Kerala and **heavy rainfall** at isolated places over Tamil Nadu and Assam & Meghalaya.
- ❖ **Significant amount of rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): **Kerala & Mahe:** Panathur Aws (dist Kasargod) 13, Kunnamkulam (dist Thrissur) 7, Kunnamkulam Aws (dist Thrissur) 6, Ponnani (dist Malappuram) 6, Enamakal (dist Thrissur) 5; **Tamil Nadu:** Perunchani Dam (dist Kanyakumari), Puthan Dam (dist Kanyakumari), Elumalai (dist Madurai) 8 each, Kallikudi (dist Madurai), Aravakurichi (dist Karur) 7 each; **Assam & Meghalaya:** Jowai (dist West Jaintia Hills) 9, Mawsynram (dist East Khasi Hills) 8, Shella (dist East Khasi Hills) 5
- ❖ **Hailstorm** occurred at isolated places over Assam.
- ❖ Yesterday, **Heatwave conditions at many places with severe heat wave conditions in** isolated pockets prevailed over Southwest Rajasthan; **Heatwave to severe heat wave conditions** in many parts of Kutch; isolated pockets of Saurashtra, Gujarat Region, Himachal Pradesh. **Heatwave conditions** at some places prevailed over East Rajasthan, in isolated pockets over Haryana, West Madhya Pradesh.
- ❖ **Minimum Temperature Departures (as on 07-04-2025):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Rajasthan; at isolated places over Saurashtra & Kutch, Uttarakhand, Bihar; **above normal (1.6°C to 3.0°C)** at isolated places over Madhya Pradesh, Madhya Maharashtra, Odisha, Coastal Andhra Pradesh & Yanam, Haryana-Chandigarh-Delhi, East Uttar Pradesh. These are **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Tamil Nadu, Puducherry & Karaikal; **below normal (-3.0°C to -1.6°C)** at isolated places over Vidarbha, Assam & Meghalaya and normal over rest parts of the country (Fig. 4). Today, the **lowest minimum temperature** of 15.6°C is reported at **Sidhi (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 06-04-2025):** Maximum Temperatures were **markedly above normal (5.1°C or more)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over West Rajasthan, Himachal Pradesh; at isolated places East Rajasthan, Saurashtra & Kutch; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Punjab, Gujarat Region; at isolated places over Madhya Pradesh, Gangetic West Bengal, Uttarakhand, Haryana-Chandigarh-Delhi; **above normal (1.6°C to 3.0°C)** at a few places over Uttar Pradesh; at isolated places over Bihar, Jharkhand, Chhattisgarh, Madhya Maharashtra, Vidarbha, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Telangana. These were **below normal (-3.0°C to -1.6°C)** at isolated places over Rayalaseema and near normal over rest parts of the country (Fig. 2). Yesterday, the highest **maximum temperature** of 45.6°C was reported at **Barmer (West Rajasthan)** and **Kandla (Saurashtra & Kutch)** over the country.

Meteorological Analysis (Based on 0830 hours IST)

- ❖ Under the influence of an upper air **cyclonic circulation** over southeast Bay of Bengal & neighbourhood, a Low-Pressure Area has formed over central parts of south Bay of Bengal at 0830 hrs IST of today, the 07th April, 2025 with the associated cyclonic circulation extending upto 5.8 km above mean sea level. It is likely to move northwestwards over southwest Bay of Bengal till 08th April and thereafter likely to move nearly northwards over westcentral Bay of Bengal during subsequent 48 hours.
- ❖ A **trough** runs from the above cyclonic circulation over southeast Bay of Bengal to south Tamil Nadu across southwest Bay of Bengal and extends upto 1.5 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over northeast Jharkhand & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The **trough** from East Bihar to North Telangana across the cyclonic circulation over northeast Jharkhand, Chhattisgarh at 1.5 km above mean sea level persists.
- ❖ An upper air **cyclonic circulation** lies over east Assam & neighbourhood at 1.5 km above mean sea level.
- ❖ A **trough** runs from north Madhya Maharashtra to South Interior Karnataka across North Interior Karnataka at 0.9 km above mean sea level.
- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan region from 08th April, 2025.
- ❖ The north-south **trough** from Marathwada to South Tamil Nadu across interior Karnataka has become less marked.
- ❖ The upper air **cyclonic circulation** over South Interior Karnataka & neighbourhood has become less marked.

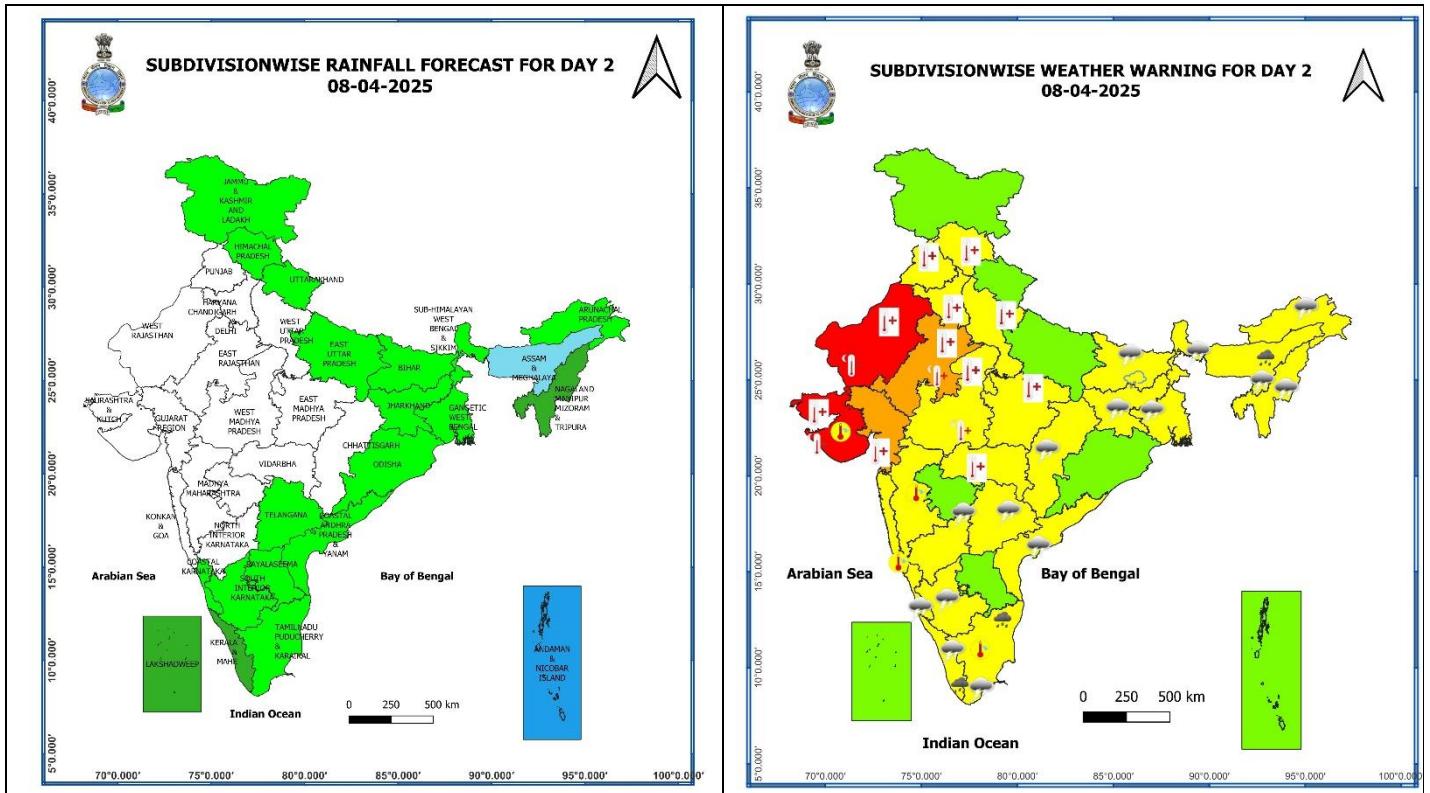
Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 14th April, 2025)



07th April (Day 1):

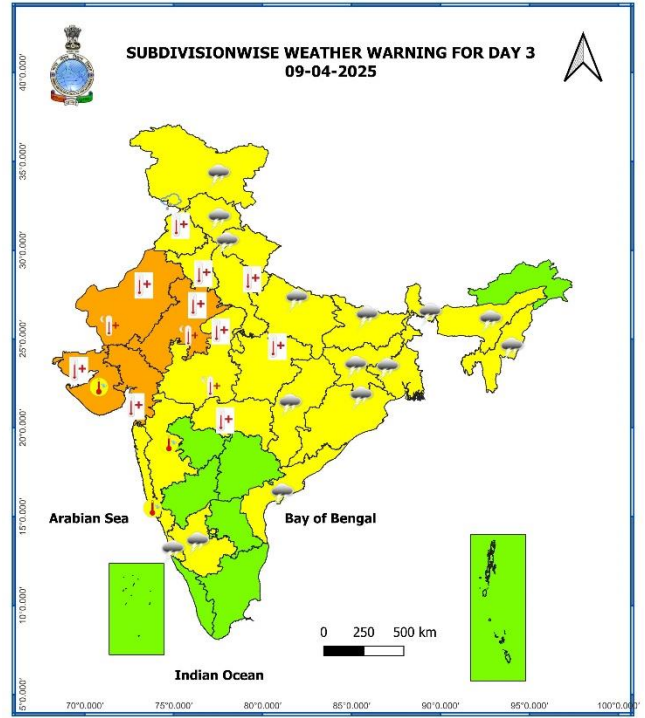
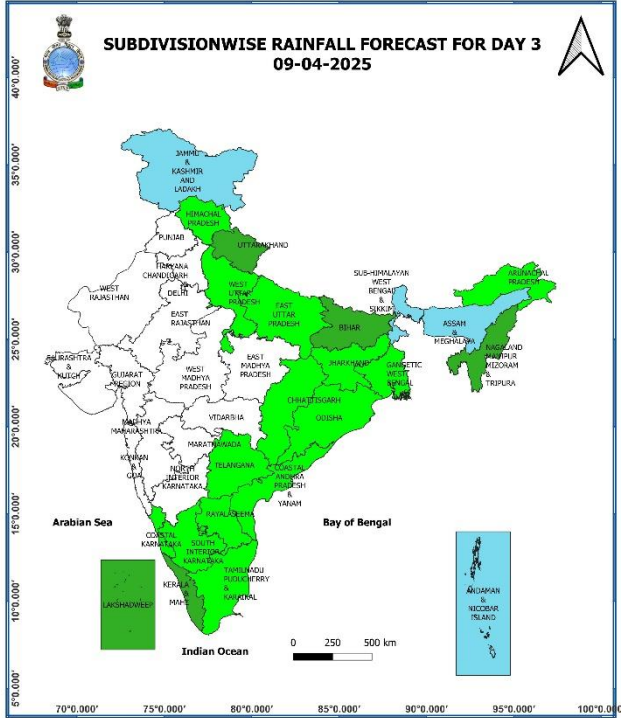
- ❖ **Heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 - 50 kmph)** very likely at isolated places over Gangetic West Bengal, Bihar, Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal; **with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Karnataka; **with lightning** at isolated places over Andaman & Nicobar Islands and Lakshadweep.
- ❖ **Heat wave to severe Heat wave conditions** very likely in some parts of Saurashtra & Kutch; in isolated pockets of Rajasthan; **Heat wave conditions** in isolated pockets of West Madhya Pradesh, Haryana-Chandigarh-Delhi and Gujarat Region.
- ❖ **Hot and humid weather** very likely in isolated pockets of Coastal areas of Gujarat state, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Rajasthan, West Madhya Pradesh, Saurashtra & Kutch.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over Andaman sea, over northern parts of southeast Bay of Bengal; adjoining areas of southwest and central Bay of Bengal. Fishermen are advised not to venture into these areas.

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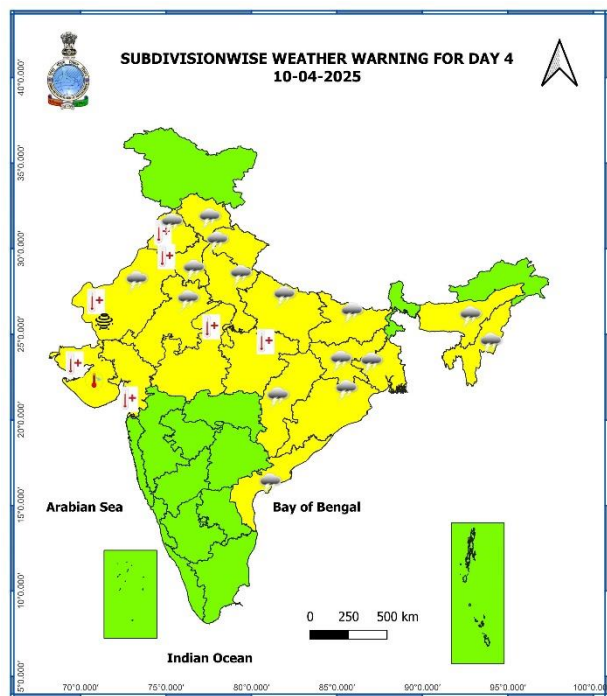
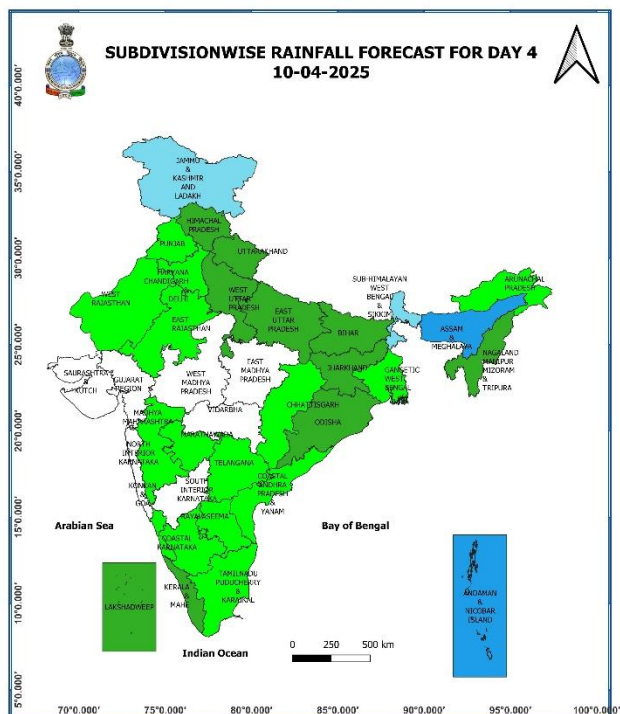
08th April (Day 2):

- ❖ **Heavy rainfall** very likely at isolated places over Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40 - 50 kmph) & hailstorm** very likely at isolated places over Bihar; **with lightning & gusty winds (speed reaching 40 - 50 kmph)** at isolated places over Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal; **with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Chhattisgarh, West Bengal & Sikkim, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka.
- ❖ **Heat wave to severe Heat wave conditions** very likely in some parts of Saurashtra & Kutch and in isolated pockets over Rajasthan; **Heat wave conditions** in some parts of Punjab & Haryana-Chandigarh-Delhi; in isolated pockets of West Uttar Pradesh, Himachal Pradesh, Madhya Pradesh, Vidarbha and Gujarat Region.
- ❖ **Hot and humid weather** very likely in isolated pockets of Coastal areas of Gujarat state, Konkan & Goa, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Rajasthan, West Madhya Pradesh, Saurashtra & Kutch.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over central north central parts of south Bay of Bengal and adjoining south central parts of central Bay of Bengal. Fishermen are advised not to venture into these areas.



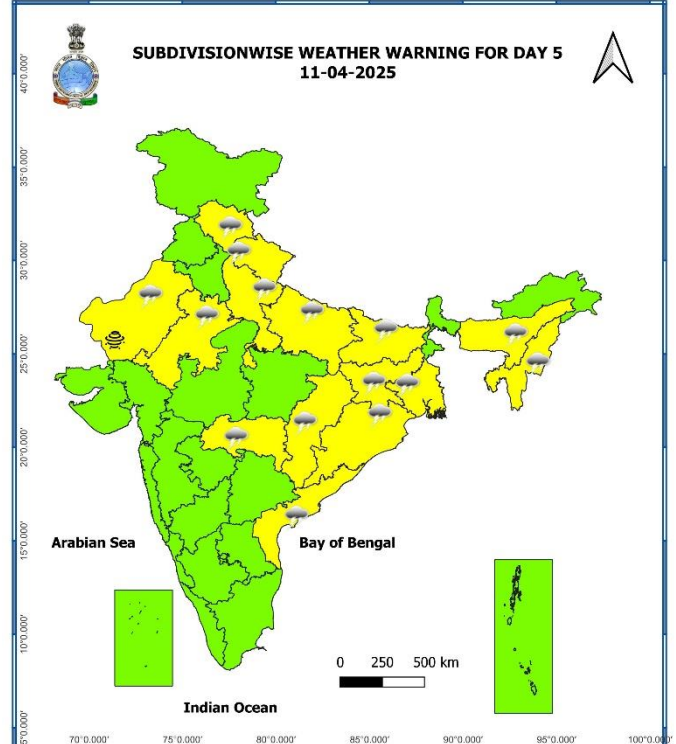
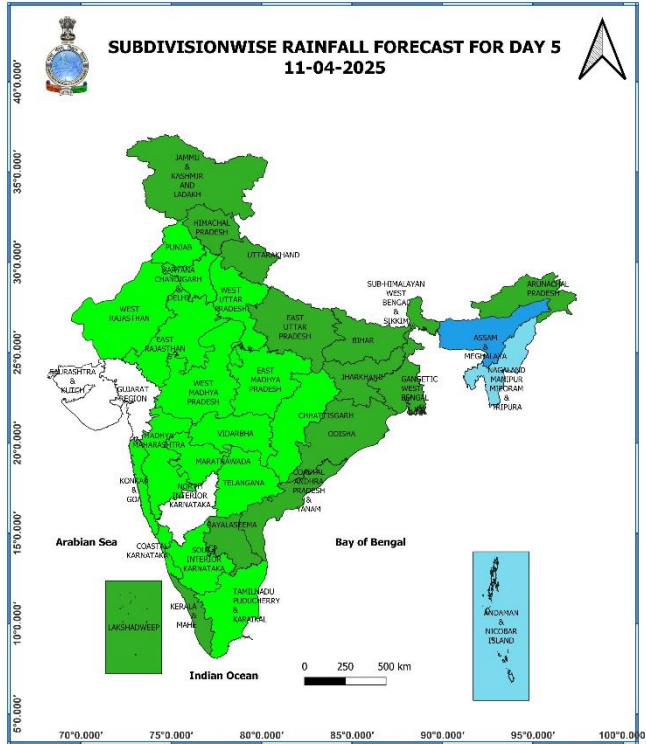
09th April (Day 3):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 - 50 kmph)** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim and Bihar; **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 30 - 40 kmph)** at isolated places over Himachal Pradesh, Uttarakhand, Chhattisgarh, Odisha, Jharkhand, Coastal Andhra Pradesh & Yanam; **with lightning** at isolated places over East Uttar Pradesh, Gangetic West Bengal, Coastal & South Interior Karnataka.
- ❖ **Heat wave to severe Heat wave conditions** very likely in isolated pockets of West Rajasthan; **Heat wave conditions** in some parts of Punjab, Haryana, Chandigarh, East Rajasthan; in isolated pockets of West Uttar Pradesh, Madhya Pradesh, Gujarat state and Vidarbha.
- ❖ **Hot and humid weather** very likely in isolated pockets of Coastal areas of Gujarat state, Konkan & Goa and Madhya Maharashtra.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Rajasthan and West Madhya Pradesh.



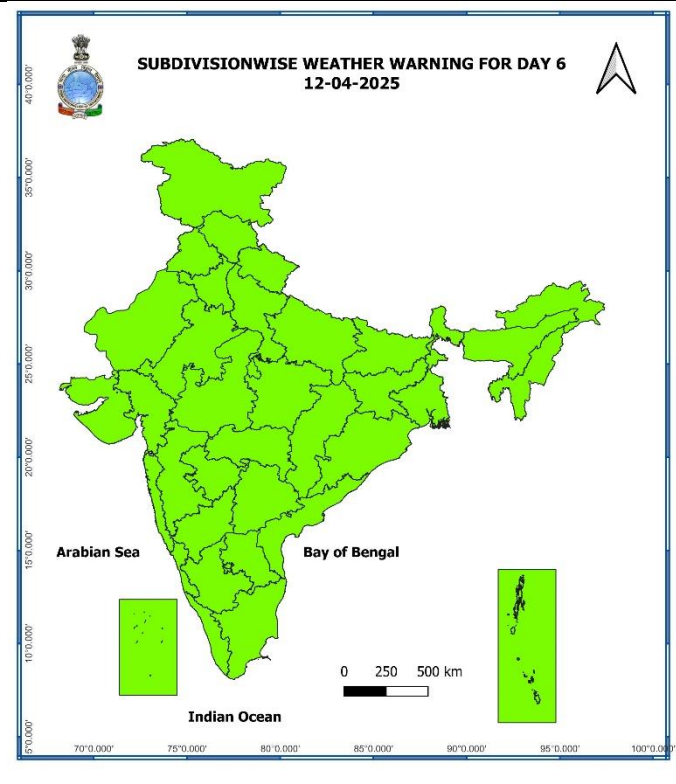
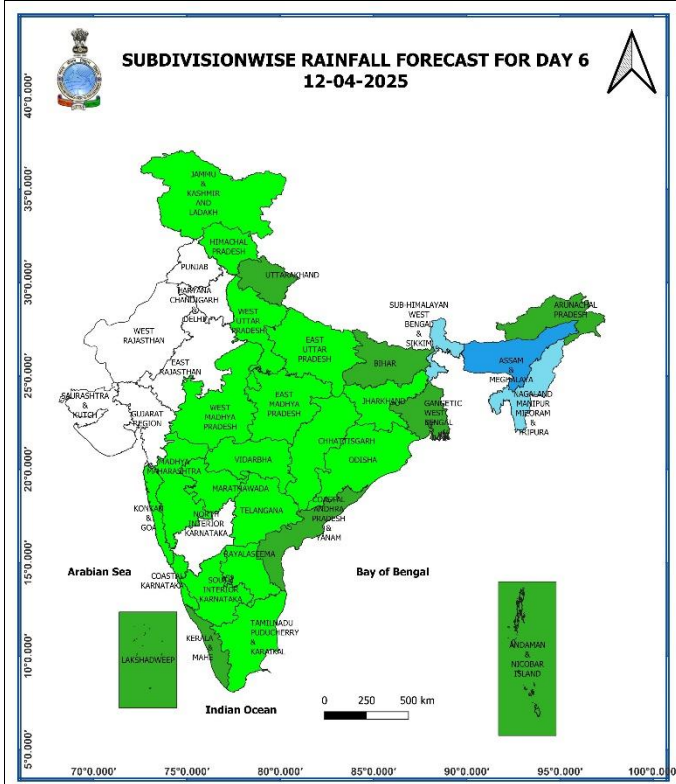
10th April (Day 4):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40 - 50 kmph) & hailstorm** likely at isolated places over Jharkhand; **with lightning & gusty winds (speed reaching 40 - 50 kmph)** at isolated places over East Rajasthan, Odisha, Bihar, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam; **with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Himachal Pradesh, Uttarakhand, Chhattisgarh, Gangetic West Bengal and Assam & Meghalaya; **with lightning** at isolated places over Uttar Pradesh.
- ❖ **Heat wave conditions** in some parts of Punjab, Haryana & Chandigarh; in isolated pockets of Madhya Pradesh and Gujarat Region.
- ❖ **Hot and humid weather** likely in isolated pockets of Coastal areas of Gujarat state.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over Comorin area, along and off south Tamil Nadu coast. Fishermen are advised not to venture into these areas.



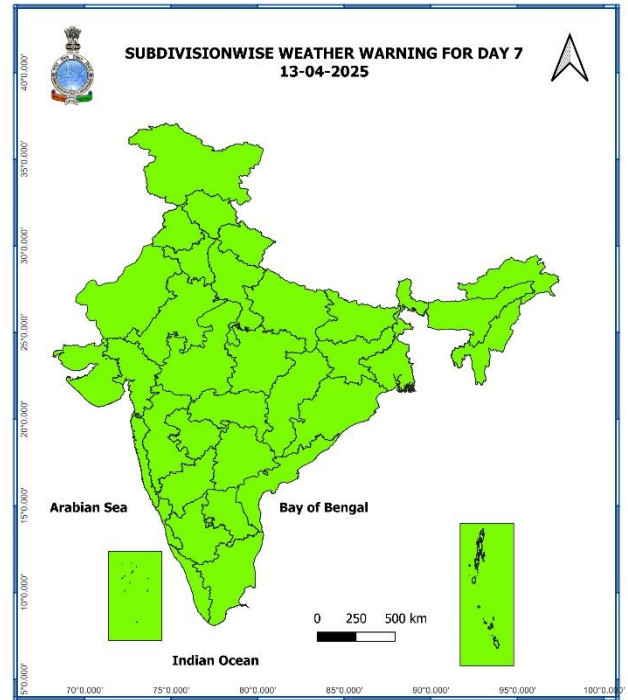
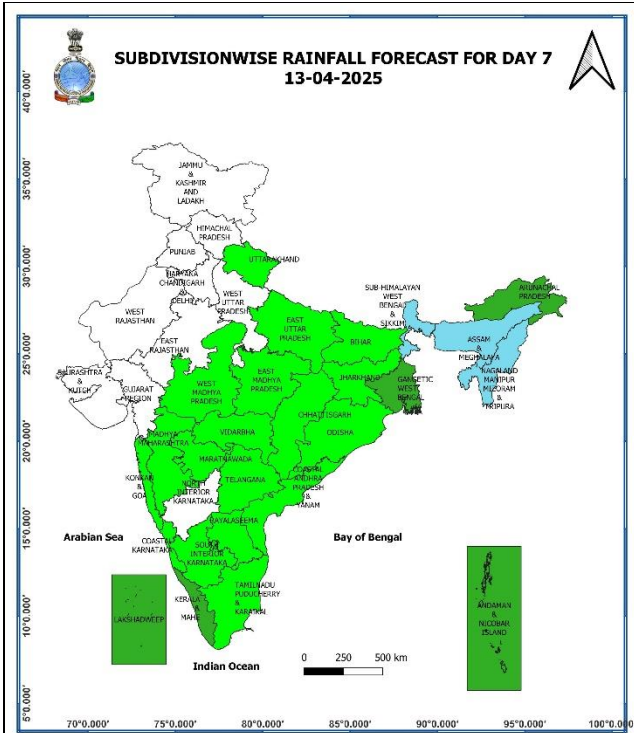
11th April (Day 5):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 - 50 kmph)** likely at isolated places over East Rajasthan, Odisha and Coastal Andhra Pradesh & Yanam; **with lightning & gusty winds (speed reaching 30 - 40 kmph)** at isolated places over Himachal Pradesh, Uttarakhand, West Rajasthan, Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Uttar Pradesh.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over Comorin area, along and off south Tamil Nadu coast. Fishermen are advised not to venture into these areas.



12th April (Day 6):

❖ **No weather warning.**



13th April (Day 7):

❖ No weather warning.

Weather Outlook for subsequent 3 days (During 14th April- 16th April, 2025)

❖ Isolated to scattered rainfall likely over East & Northeast India, 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.

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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

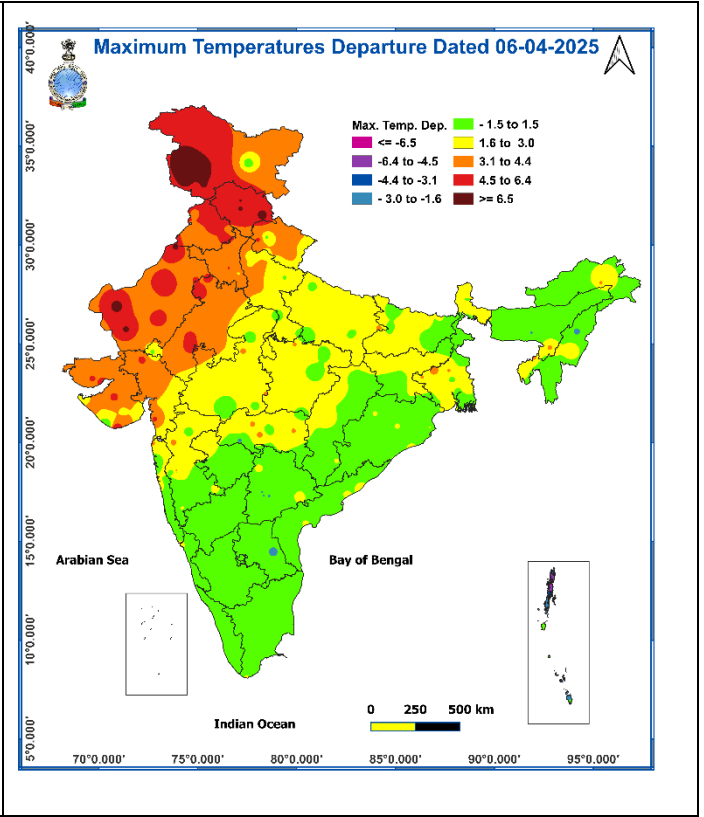
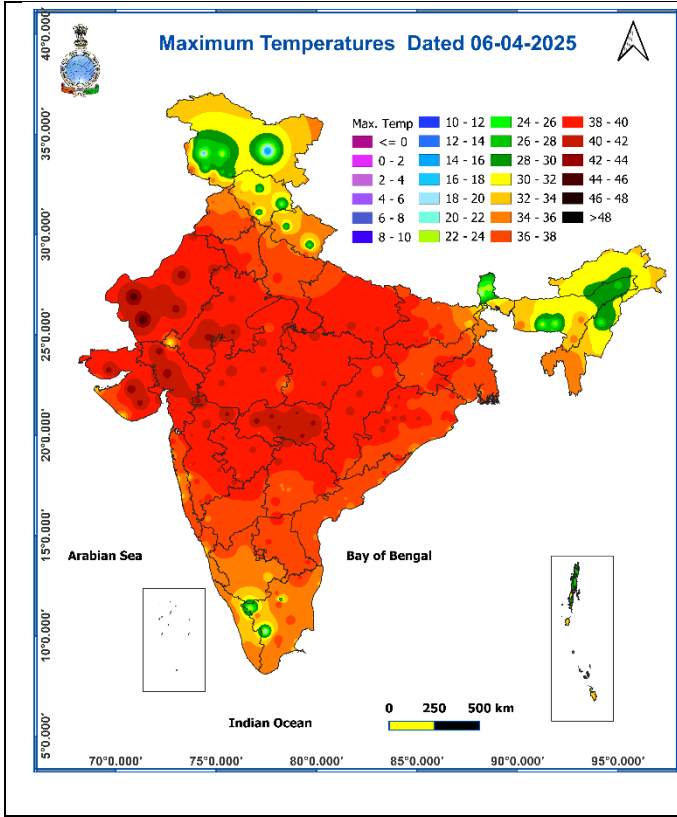
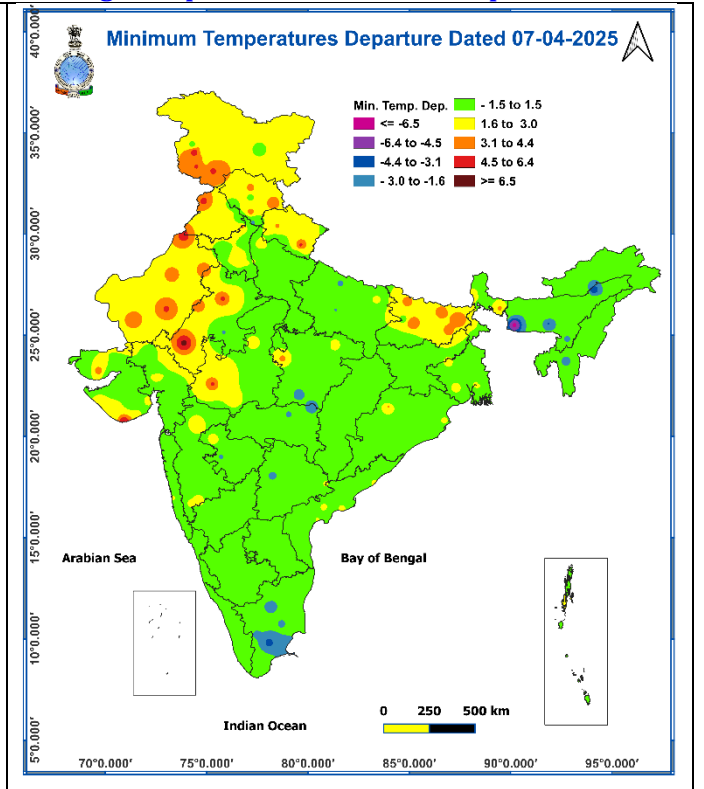
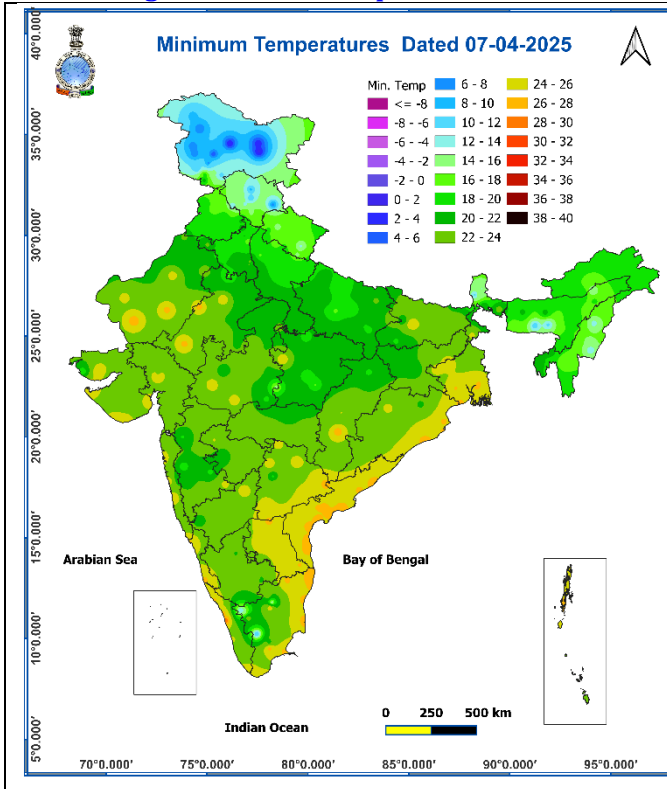


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



Impact expected and action suggested due to

- ❖ Heat wave conditions likely at isolated to some pockets over Saurashtra & Kutch, East Rajasthan during 07th-09th April with severe heat wave conditions at isolated pockets over Saurashtra & Kutch on 07th & 08th April.
- ❖ Heat wave conditions very likely at some/many places over West Rajasthan during 07th-10th April with severe heat wave conditions at isolated pockets on during 07th-09th April.
- ❖ Heat wave conditions very likely in isolated pockets of Himachal Pradesh, Delhi on 07th & 08th; Haryana, Chandigarh, West Madhya Pradesh, Gujarat Region during 07th-10th; Punjab during 08th -10th; West Uttar Pradesh, Vidarbha on 08th & 09th; East Madhya Pradesh during 08th-10th 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 Assam & Meghalaya and Bihar on 08th; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand on 09th April.

Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.

- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

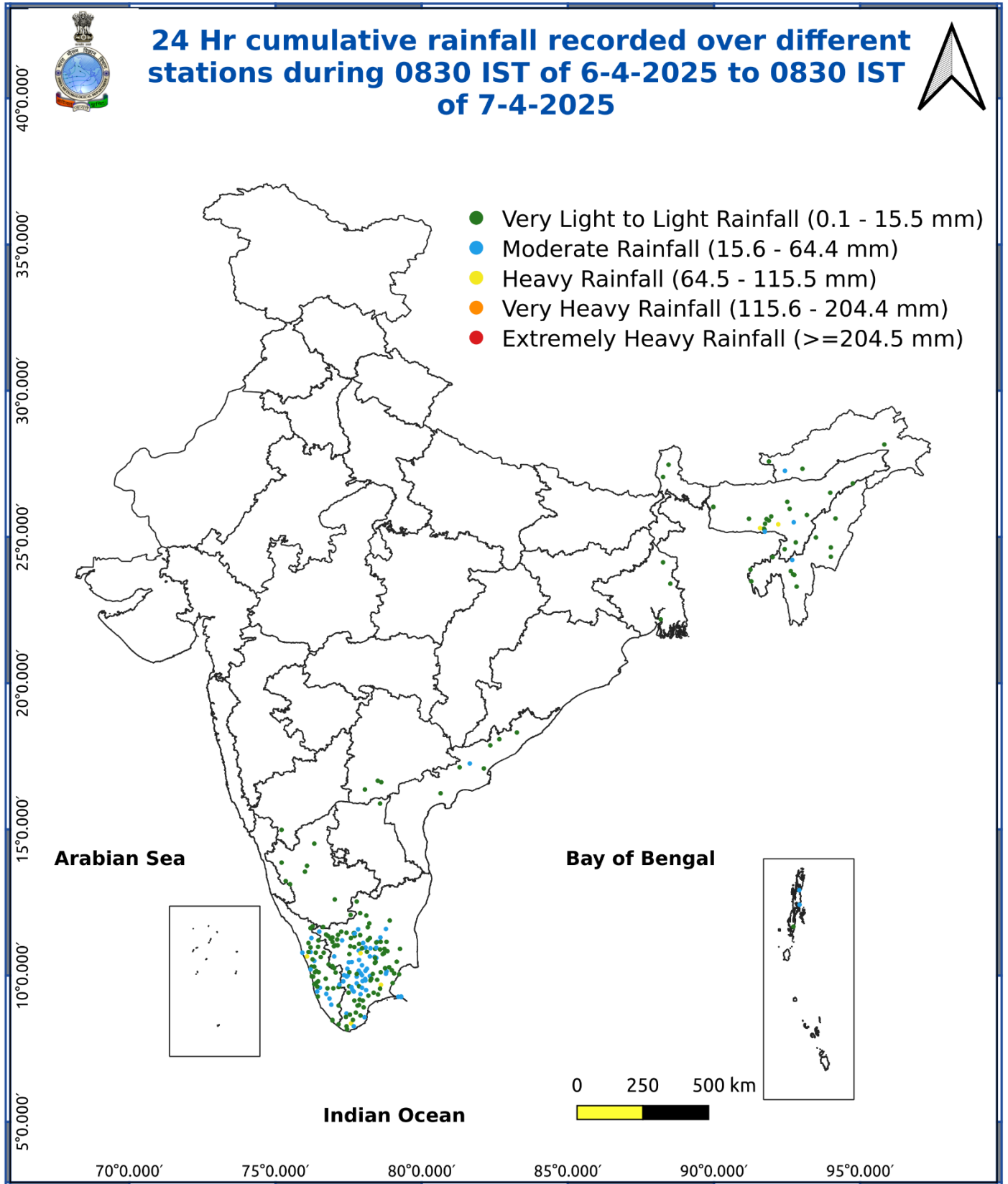
Agromet advisories for likely impact of Heavy Rainfall / Gusty Winds / Heatwave

- In **Tamilnadu** and **Kerala**, drain out excess water from standing crop and vegetable fields.
- In **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 **Himachal Pradesh, Punjab, Haryana, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha** and **Gujarat State**, 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 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.

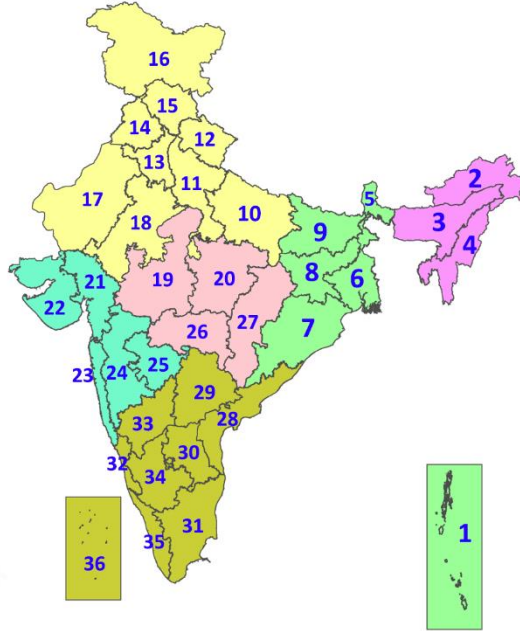
Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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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 *

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

Heat Wave

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

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^\circ\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^\circ\text{C}$.
Severe Heat Wave: When actual maximum temperature $\geq 47^\circ\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^\circ\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ\text{C}$

Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .
Severe Warm Night: When minimum temperature departure $> 6.4^\circ\text{C}$.

Cold Wave

When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions.
(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^\circ\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave: When Minimum Temperature is $\leq 4.0^\circ\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^\circ\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^\circ\text{C}$ & actual Minimum Temperature is $\leq 15^\circ\text{C}$

Cold Day

When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^\circ\text{C}$

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres
Dense Fog: when the visibility between 50- 200 metres
Very Dense Fog: when the visibility < 50 metres

Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)

Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.

Frost

Ice deposits on ground

Air temperature $\leq 4^\circ\text{C}$ (over Plains)

Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph
Severe: Wind speed 62-87 kmph
Very Severe: Wind speed > 87 kmph

Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre

Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
Super Cyclone Strom: Wind speed > 220 kmph (> 119 knots)

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