

Saturday, April 26, 2025
Time of Issue: 1400 hours IST
(MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

- ❖ An upper air cyclonic circulation lies over central Assam and another over east Bihar & adjoining Sub-Himalayan West Bengal in lower tropospheric levels. A north-south trough runs from Telangana to Gulf of Mannar in lower tropospheric levels.
- ❖ A Western Disturbance as a trough in middle tropospheric westerlies roughly along Long. 76°E to the north of Lat. 32°N and a cyclonic circulation lies over southwest Rajasthan & neighbourhood in lower tropospheric levels
- ❖ Under the influence of these systems:
 - ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Northeast India during next 7 days and **thundersquall (wind speed reaching 50-60 kmph)** likely over Assam & Meghalaya on 26th & 27th April.
 - ✓ **Heavy rainfall** likely over Assam & Meghalaya during 26th-28th; Arunachal Pradesh on 26th & 27th; over Nagaland, Manipur, Mizoram & Tripura on 27th & 28th with **very heavy rainfall** over Assam & Meghalaya on 26th & 27th April.
 - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 40-50 kmph gusting to 60 kmph** likely over East India, East Madhya Pradesh, Vidarbha, Chhattisgarh and East Uttar Pradesh during 26th-30th April with **Thundersquall (wind speed reaching 50-60 kmph)** likely over Sub-Himalayan West Bengal & Sikkim on 27th; Gangetic West Bengal, Vidarbha, Chhattisgarh on 27th & 28th; Bihar during 26th-28th, Odisha during 27th-29th and Jharkhand on 28th & 29th April.
 - ✓ **Isolated hailstorm** activity likely over East Madhya Pradesh, Chhattisgarh on 27th & 28th; Vidarbha, Gangetic West Bengal, Bihar, Jharkhand on 27th; Sub-Himalayan West Bengal & Sikkim on 26th and Odisha on 27th & 28th April.
 - ✓ **Isolated heavy rainfall** over Sikkim on 26th and Sub-Himalayan West Bengal & Sikkim, Bihar on 27th & 28th; Gangetic West Bengal on 28th; Jharkhand on 29th and Odisha during 28th-30th April.
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal during next 7 days with **thundersquall (wind speed reaching 50-60 kmph)** likely over North Interior Karnataka on 26th & 27th and Telangana on 26th April.
 - ✓ **Isolated heavy rainfall** likely over Kerala & Mahe on 29th & 30th April.
 - ✓ **Isolated hailstorm** activity likely over North Interior Karnataka on 26th & 27th and South Interior Karnataka on 26th April.
 - ✓ **Isolated to scattered** light rainfall with **thunderstorm, lightning & strong winds speed reaching 30-40 kmph** likely over Western Himalayan region and plains of northwest India on 26th April.
 - ✓ Another spell of Isolated to scattered light rainfall with thunderstorm, lightning & strong winds speed reaching 30-40 kmph also likely over the region during 29th April to 02nd May.

Temperature Forecast:

- ❖ No significant change in maximum temperatures likely over Punjab, Haryana, Chandigarh & Delhi, Rajasthan during next 2 Days; rise by 2-3°C for subsequent 3 days and fall by 2-3°C for subsequent 2 days.
- ❖ Gradual fall in maximum temperatures by 2-3°C likely over Uttar Pradesh during next 7 days.
- ❖ No significant change in maximum temperatures likely over East India during next 24 hours; fall by 3-5°C for subsequent 3 days and no significant change for subsequent 2 days.
- ❖ No significant change in maximum temperatures likely over Gujarat during next 2 Days and rise by 2-3°C for subsequent 3 days.
- ❖ Gradual fall in maximum temperatures by 2-3°C likely over Central India during next 3 days and rise by 2-3°C for subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

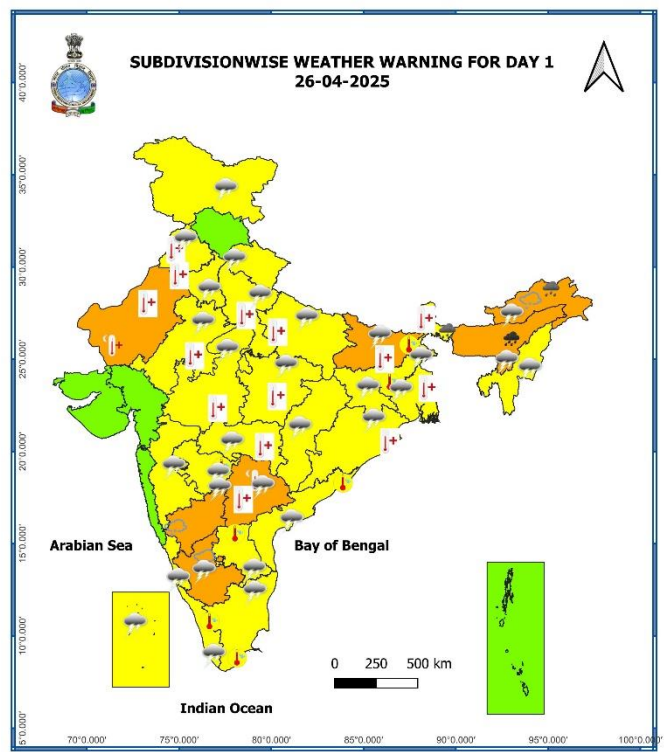
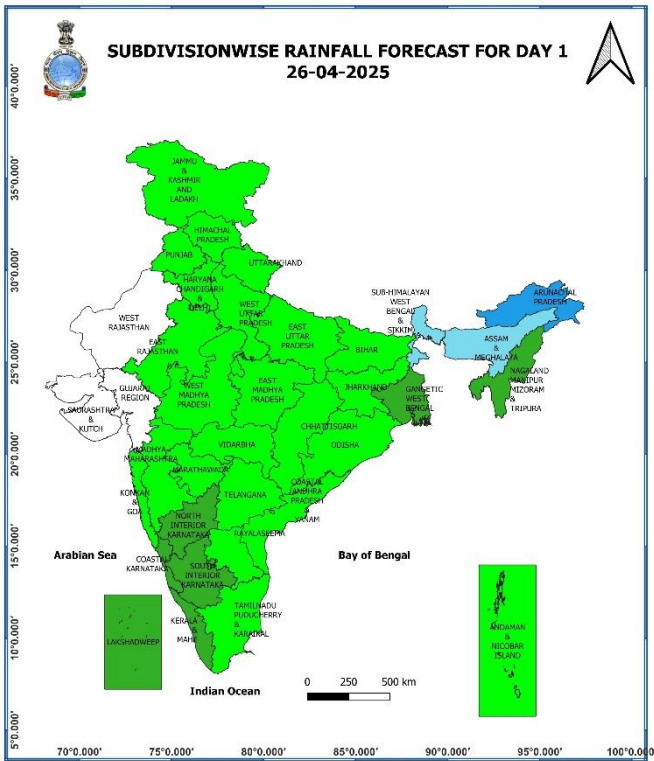
Main Weather Observations:

- ❖ **Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Arunachal Pradesh, Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe, Lakshadweep; at isolated places over Madhya Maharashtra, Tamilnadu Puducherry & Karaikal, Kerala, Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Heavy to very heavy rainfall** has been recorded at isolated places over Meghalaya and **heavy rainfall** at isolated places over Kerala.
- ❖ **Significant rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Assam & Meghalaya:** Mawsynram (dist East Khasi Hills) 17, Cherrapunji (dist East Khasi Hills) 15, Cherrapunji(rkm) (dist East Khasi Hills) 14, Barpeta (dist Barpeta) 6; **Tamil Nadu:** Satankulam (dist Thoothukudi), Thirparappu (dist Kanyakumari), Uttamapalayam (dist Theni) 3 each; **Kerala & Mahe:** Palode(dist Thiruvananthapuram) 8, Thodupuzha (dist Idukki) 4; **Interior Karnataka:** Rabkavi (dist Bagalkote) 5, Sindhanur (dist Raichur) 4, Chincholi (dist Kalaburgi) 4.
- ❖ **Hailstorm** occurred at isolated places over North interior Karnataka.
- ❖ **Heat wave conditions** prevailed in isolated pockets of Vidarbha.
- ❖ **Warm night conditions** prevailed in isolated pockets of West Rajasthan.
- ❖ **Minimum Temperature Departures (as on 26-04-2025):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Nagaland, Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at a few places over West Bengal & Sikkim, West Madhya Pradesh, Odisha, Maharashtra, Gujarat state, Kerala & Mahe; at isolated places over Rajasthan, Bihar, Jharkhand, Assam & Meghalaya, Chhattisgarh, Rayalaseema, South Interior Karnataka. These are **below normal (-1.6°C to -3.0°C)** at many places over Delhi; at a few places over Uttar Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana, East Madhya Pradesh, Telangana, North Interior Karnataka and normal over rest parts of the country (**Fig. 4**). Today, the **lowest minimum temperature** of **19.1°C** is reported at **Amritsar (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 25-04-2025):** Maximum Temperatures were **appreciably above normal (3.1°C to 5.0°C)** at most places over Punjab and Delhi; at many places over East Uttar Pradesh, East Madhya Pradesh and Vidarbha; at a few places over Uttarakhand, Bihar and Marathwada; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Odisha, West Bengal, Sikkim, Chhattisgarh, **above normal (1.6°C to 3.0°C)** at a few places over Rajasthan, Nagaland, Manipur, Mizoram & Tripura; at isolated places over West Uttar Pradesh, Saurashtra & Kutch, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal and normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature** of **45.5°C** was reported at **Brahmapuri (Vidarbha)** over the country.

Meteorological Analysis (Based on 0830 hours IST)

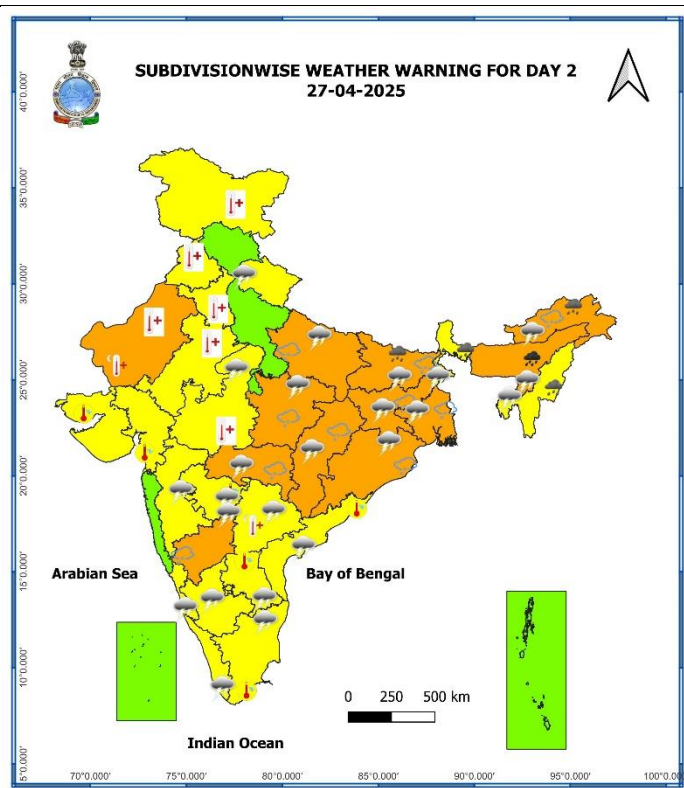
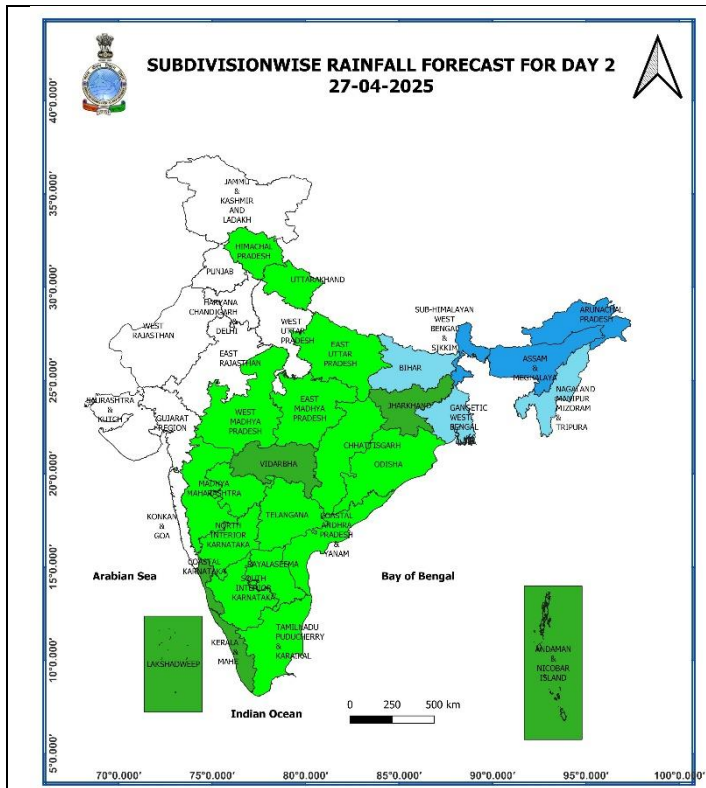
- ❖ The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 76°E to the north of Lat. 32°N persists.
- ❖ The **cyclonic circulation** over southwest Rajasthan and adjoining central parts of Pakistan now lies over southwest Rajasthan & neighbourhood and extends upto 1.5 km above mean sea level.
- ❖ The north-south **trough** from southern parts of Madhya Maharashtra to Gulf of Mannar now runs from Telangana to Gulf of Mannar across Rayalaseema and Tamil Nadu at 0.9 km above mean sea level.
- ❖ The **cyclonic circulation** over east Bihar and adjoining Sub-Himalayan West Bengal extending upto 1.5 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over central Assam & neighbourhood at 0.9 km above mean sea level persists.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 03rd May, 2025)



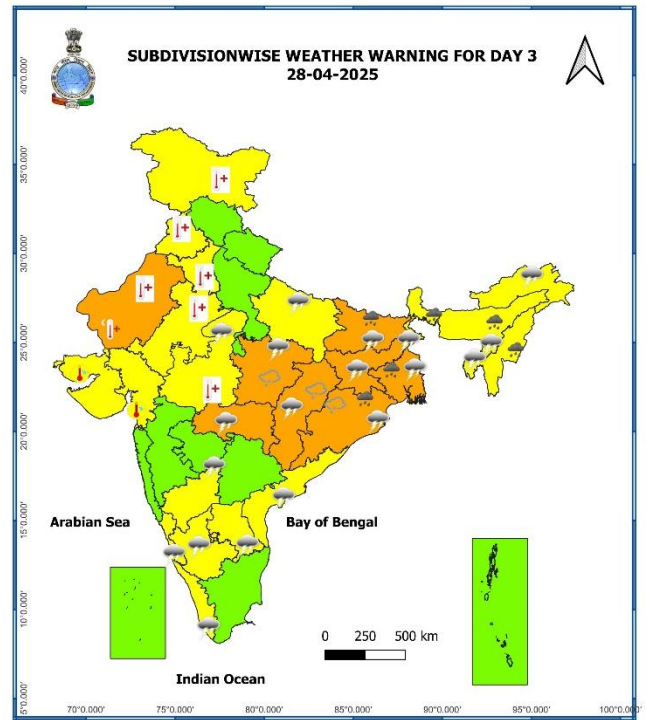
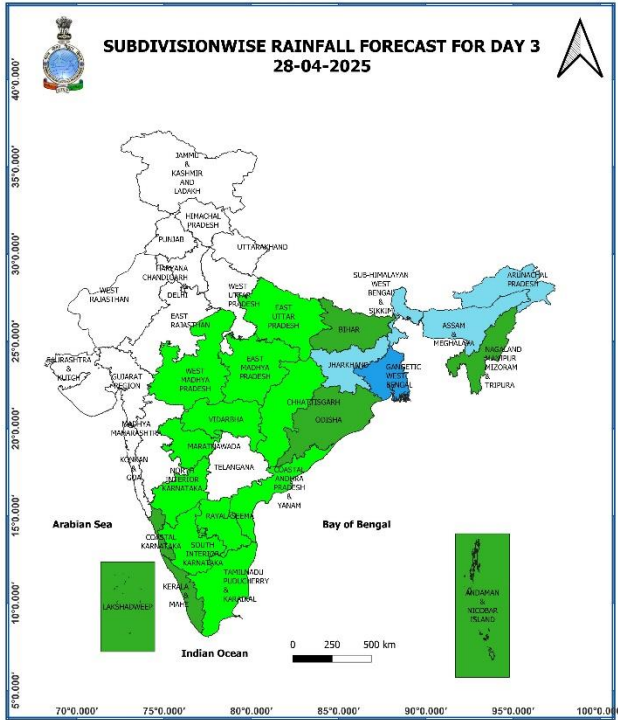
26th April (Day 1)

- ❖ **Heavy to very heavy Rainfall** very likely at isolated places over Assam & Meghalaya.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching 50-60 kmph** very likely at isolated places over Assam & Meghalaya, Bihar, Telangana and North Interior Karnataka.
- ❖ **Thunderstorms with gusty winds (40-50 kmph)** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, South Interior Karnataka and Odisha.
- ❖ **Thunderstorms with gusty winds (30-40 kmph)** very likely at isolated places over Jharkhand, Madhya Maharashtra, Marathwada, Rayalaseema, Kerala & Mahe, Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- ❖ **Thunderstorm & Lightning** very likely at isolated places over Arunachal Pradesh, Uttarakhand, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Coastal Karnataka and Lakshadweep.
- ❖ **Hailstorm** very likely at isolated places over Arunachal Pradesh and Interior Karnataka.
- ❖ **Hot and Humid weather** very likely at isolated places over Jharkhand, Bihar, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Warm Night conditions** very likely at isolated places over West Rajasthan and Telangana.
- ❖ **Heat Wave conditions** very likely in isolated pockets over West Bengal & Sikkim, Odisha, Bihar, Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Rajasthan, Madhya Pradesh, Vidarbha and Telangana.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over Lakshadweep area, adjoining Maldives and Comorin areas, off south Kerala coast. Fishermen are advised not to venture into these areas.



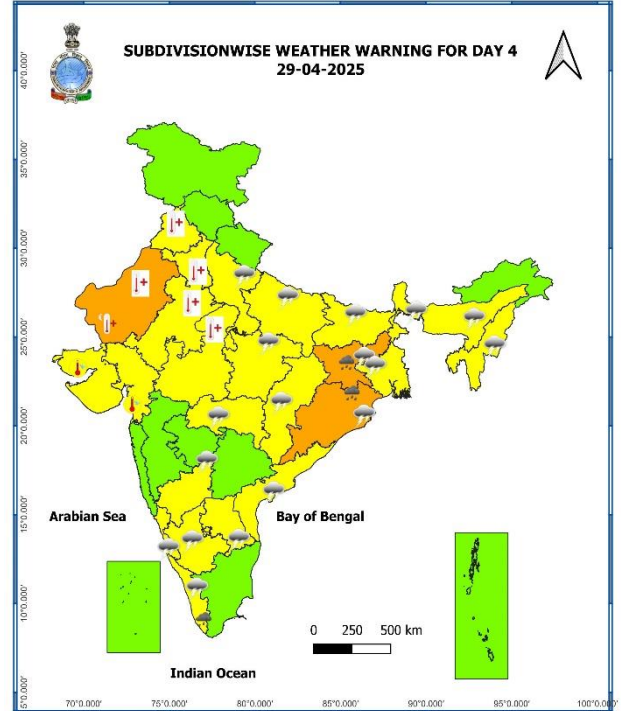
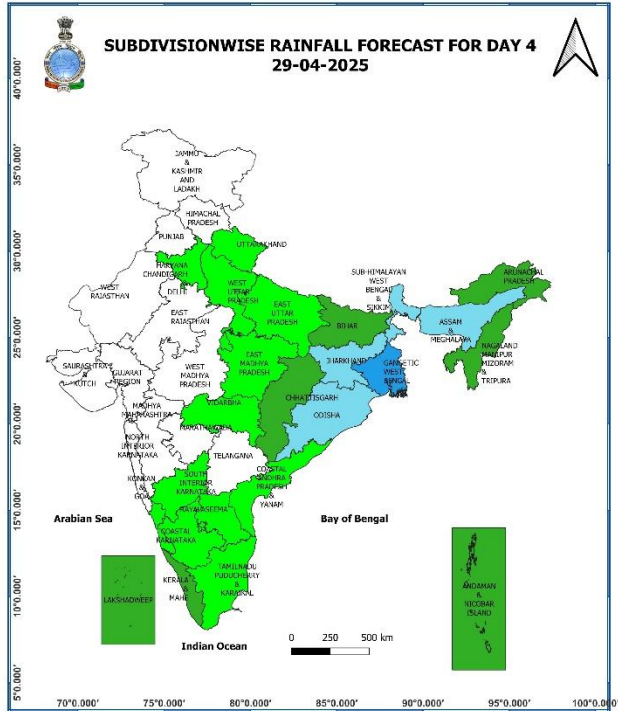
27th April (Day 2)

- ❖ **Heavy to very heavy Rainfall** very likely at isolated places over Assam & Meghalaya.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim and Bihar.
- ❖ **Thundersquall with wind speed reaching 50-60 kmph** very likely at isolated places over Assam & Meghalaya, West Bengal & Sikkim, Bihar, East Madhya Pradesh, Vidarbha, Chhattisgarh, North Interior Karnataka and Odisha.
- ❖ **Thunderstorms with gusty winds(40-50kmph)** very likely at isolated places over Nagaland, Manipur, Meghalaya & Tripura, Jharkhand, West Madhya Pradesh, Telangana, East Uttar Pradesh and South Interior Karnataka.
- ❖ **Thunderstorms with gusty winds(30-40kmph)** very likely at isolated places over Madhya Maharashtra, Marathwada, Kerala, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ **Thunderstorm & Lightning** very likely at isolated places over Arunachal Pradesh, Uttarakhand, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Hailstorm** very likely at isolated places over Arunachal Pradesh, Gangetic West Bengal, Odisha, Jharkhand, Bihar, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh and North Interior Karnataka.
- ❖ **Hot and Humid weather** very likely at isolated places over Gujarat state, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Warm Night conditions** very likely at isolated places over West Rajasthan and Telangana.
- ❖ **Heat Wave conditions** very likely in isolated pockets over Haryana, Chandigarh & Delhi, Punjab, Rajasthan, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Madhya Pradesh.
- ❖ **Squally weather with wind speed 45 kmph to 50 kmph gusting to 55 kmph** very likely to prevail along and off north Odisha and west Bengal coasts. Fishermen are advised not to venture into these areas.



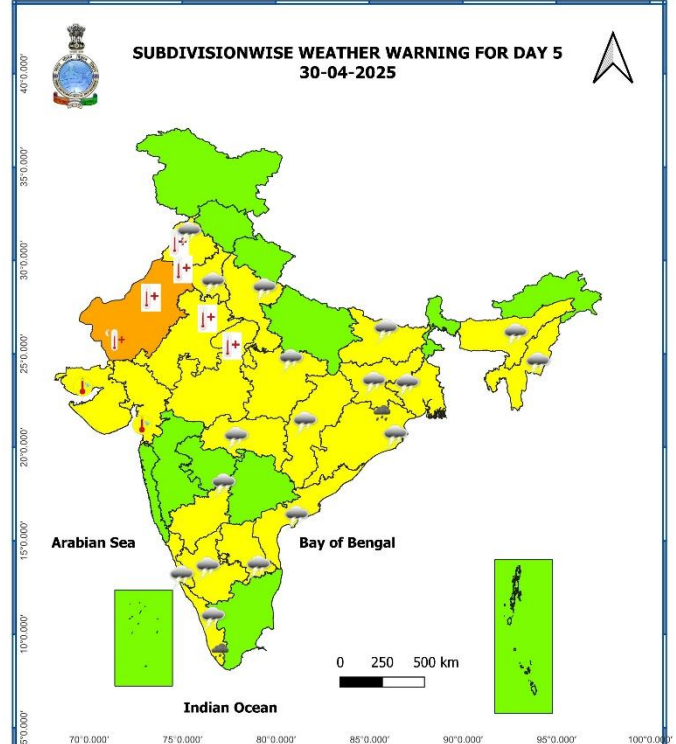
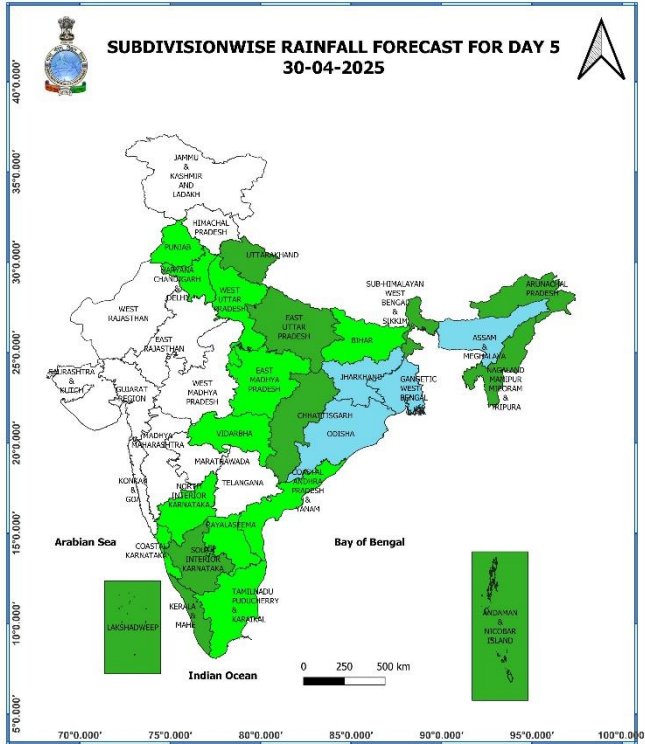
28th April (Day 3)

- ❖ **Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Bihar and Odisha.
- ❖ **Thundersquall with wind speed reaching 50-60 kmph** very likely at isolated places over Gangetic West Bengal, Odisha, Jharkhand, Bihar, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- ❖ **Thunderstorms with gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, West Madhya Pradesh and Interior Karnataka.
- ❖ **Thunderstorms with gusty winds(30-40kmph)** very likely at isolated places over East Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe.
- ❖ **Thunderstorm & Lightning** very likely at isolated places over Arunachal Pradesh and Costal Karnataka.
- ❖ **Hailstorm** very likely at isolated places over Odisha, East Madhya Pradesh and Chhattisgarh.
- ❖ **Hot and Humid weather** very likely at isolated places over Gujarat state.
- ❖ **Warm Night conditions** very likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** very likely in isolated pockets over Haryana, Chandigarh & Delhi, Punjab, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan and West Madhya Pradesh.
- ❖ **Squally weather with wind speed 45 kmph to 50 kmph gusting to 55 kmph** very likely to prevail along and off north Odisha and west Bengal coasts. Fishermen are advised not to venture into these areas.



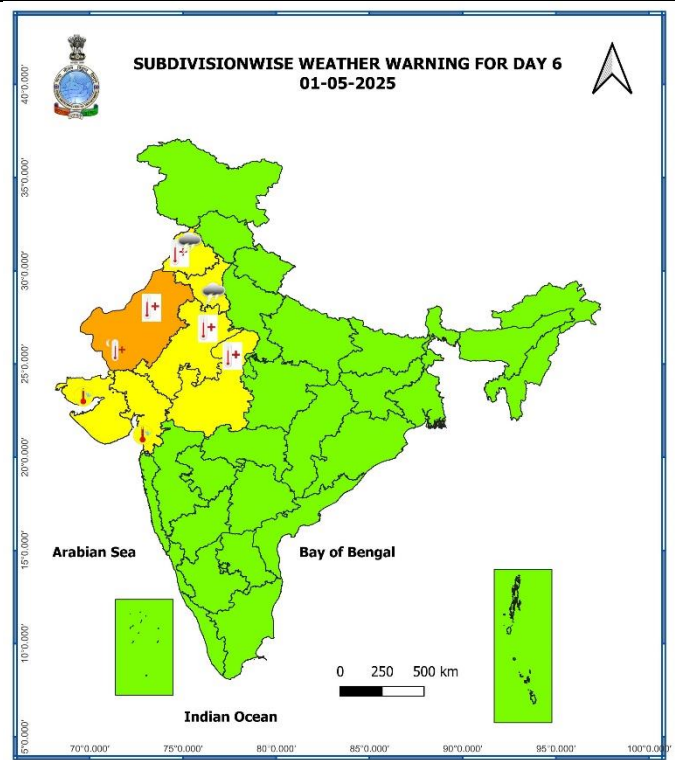
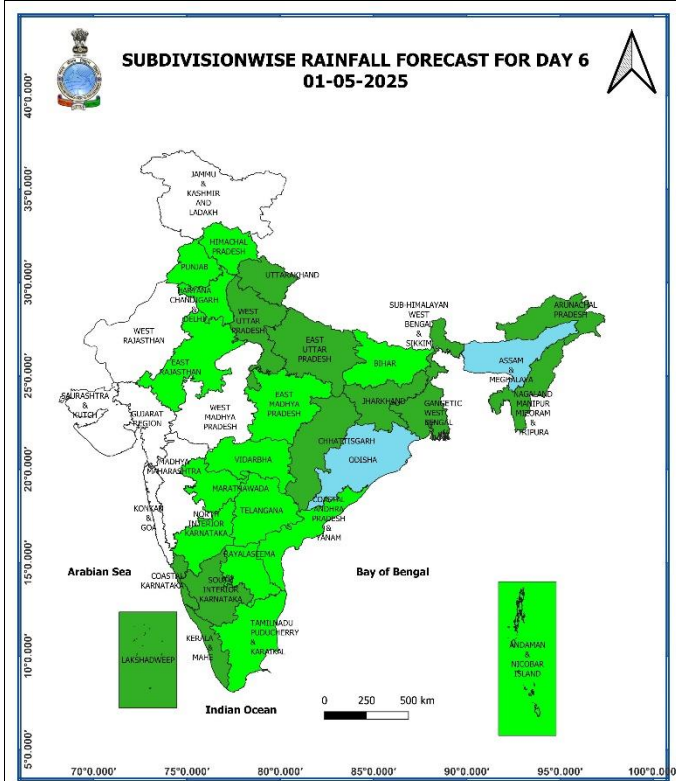
29th April (Day 4)

- ❖ **Heavy Rainfall** likely at isolated places over Odisha, Jharkhand and Kerala & Mahe.
- ❖ **Thundersquall with wind speed reaching 50-60 kmph** likely at isolated places over Odisha and Jharkhand.
- ❖ **Thunderstorms with gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya, Gangetic West Bengal, East Madhya Pradesh, Vidarbha, Chhattisgarh, East Uttar Pradesh and North Interior Karnataka.
- ❖ **Thunderstorms with gusty winds(30-40kmph)** likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Bihar, West Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Coastal Karnataka and Kerala & Mahe.
- ❖ **Hot and Humid weather** likely at isolated places over Gujarat state.
- ❖ **Warm Night conditions** likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** likely in isolated pockets over Haryana, Chandigarh & Delhi, Punjab, Rajasthan and West Madhya Pradesh.
- ❖ **Squally weather with wind speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off north Odisha and west Bengal coasts. Fishermen are advised not to venture into these areas.



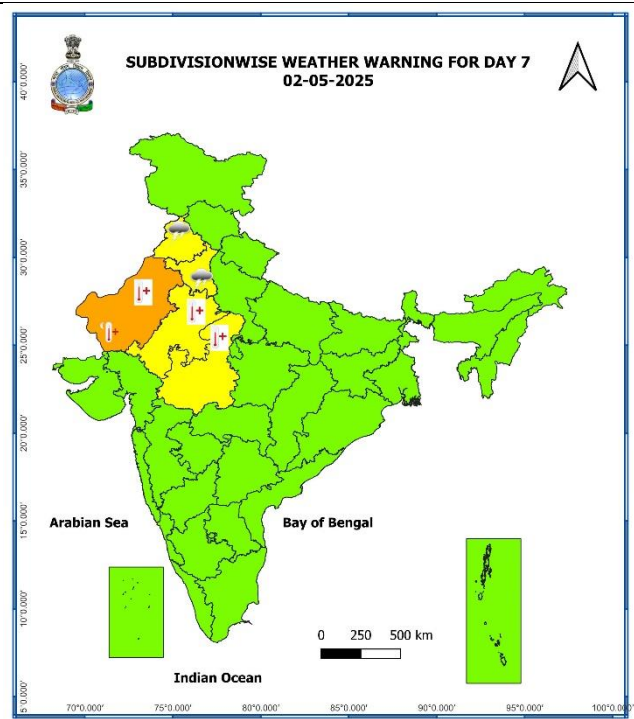
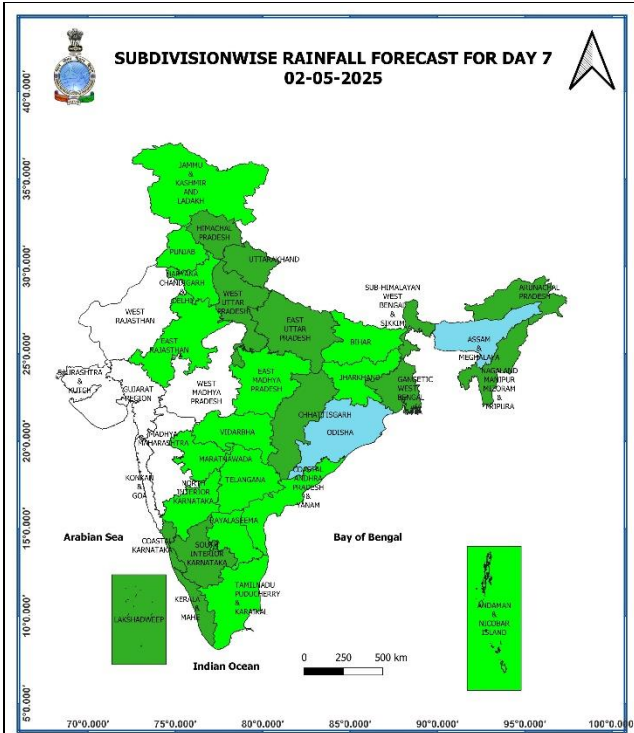
30th April (Day 5)

- ❖ **Heavy Rainfall** likely at isolated places over Odisha and Kerala & Mahe.
- ❖ **Thunderstorms with gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya, Odisha, East Madhya Pradesh, Vidarbha, Chhattisgarh and Interior Karnataka.
- ❖ **Thunderstorms with gusty winds(30-40kmph)** likely at isolated places over Gangetic West Bengal, Jharkhand, Bihar, West Uttar Pradesh, Punjab, Coastal Andhra Pradesh & Yanam, Rayalaseema and Haryana, Chandigarh & Delhi.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe.
- ❖ **Hot and Humid weather** likely at isolated places over Gujarat state.
- ❖ **Warm Night conditions** likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** likely in isolated pockets over Haryana, Chandigarh & Delhi, Punjab, Rajasthan and West Madhya Pradesh.



01st May (Day 6)

- ❖ **Thunderstorms with gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Hot and Humid weather** likely at isolated places over Gujarat state.
- ❖ **Warm Night conditions** likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** likely in isolated pockets over Punjab, Rajasthan and West Madhya Pradesh.



02nd May (Day 7)

- ❖ **Thunderstorms with gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi and Punjab.
- ❖ **Warm Night conditions** likely at isolated places over West Rajasthan.
- ❖ **Heat Wave conditions** likely in isolated pockets over Rajasthan and West Madhya Pradesh.

Weather Outlook for subsequent 3 days (During 3rd May- 05th May, 2025)

- ❖ **Scattered to fairly widespread** rainfall activity likely over east & northeast India, Kerala.
- ❖ **Isolated to scattered rainfall** likely over Northwest India, adjoining central India, Maharashtra, south peninsular India and Andaman & Nicobar Islands.

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

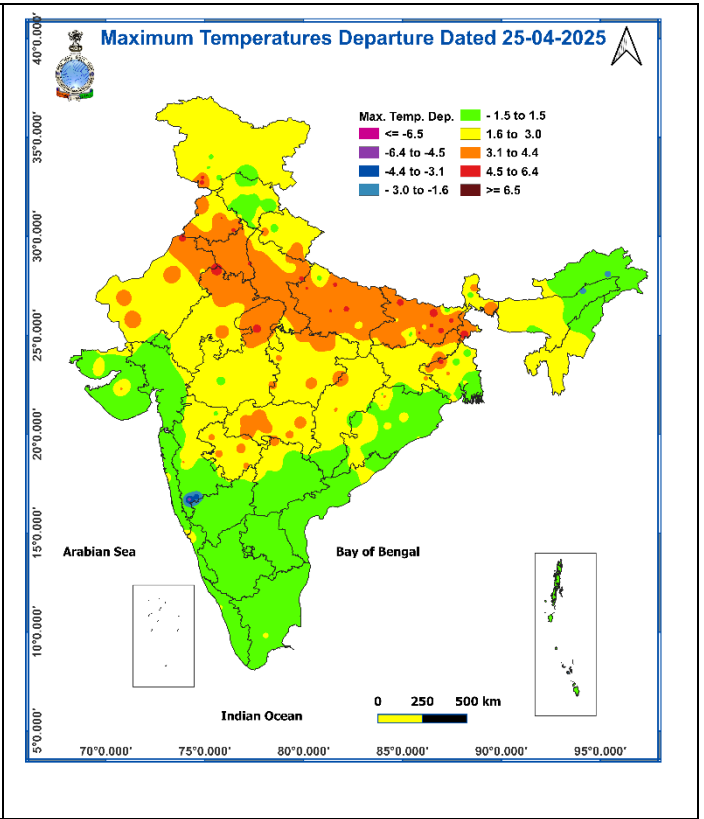
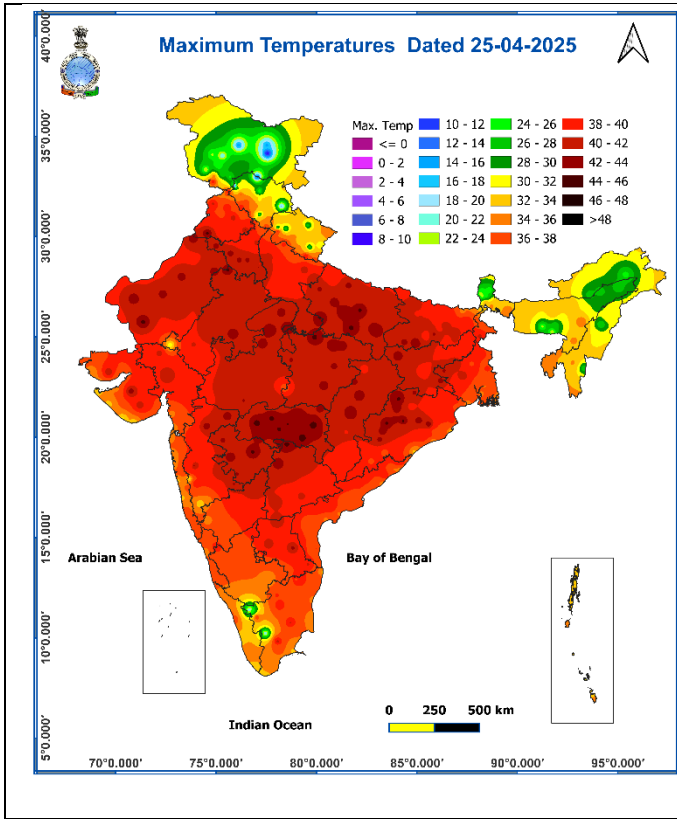


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

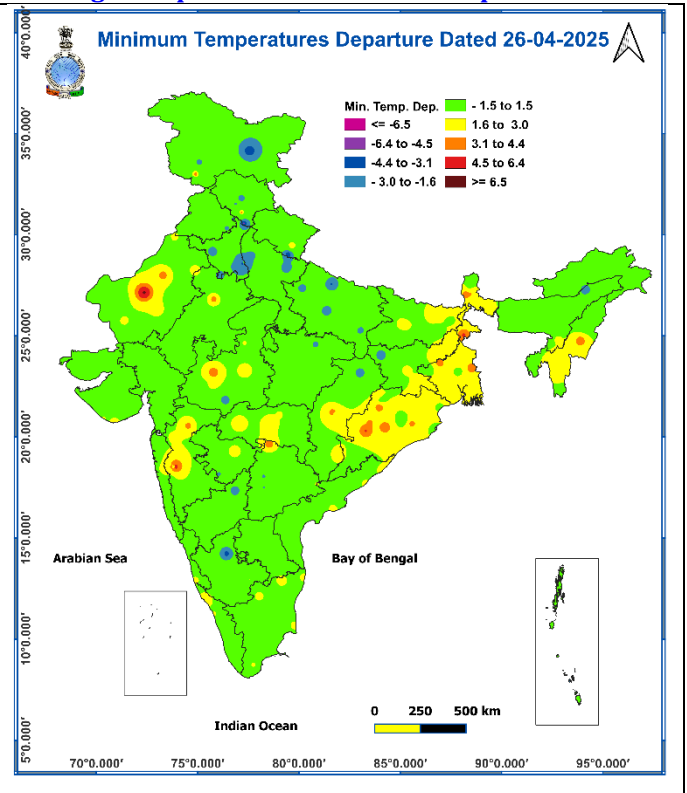
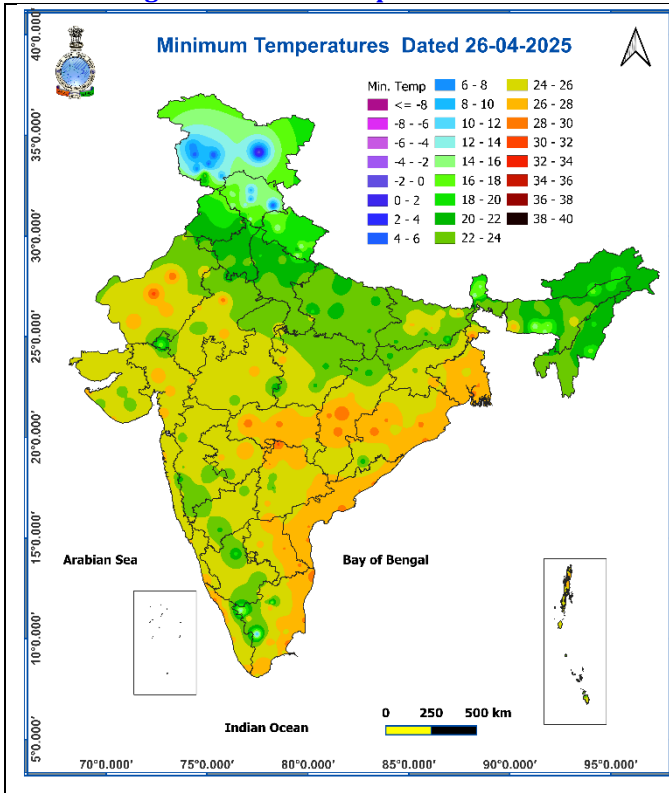
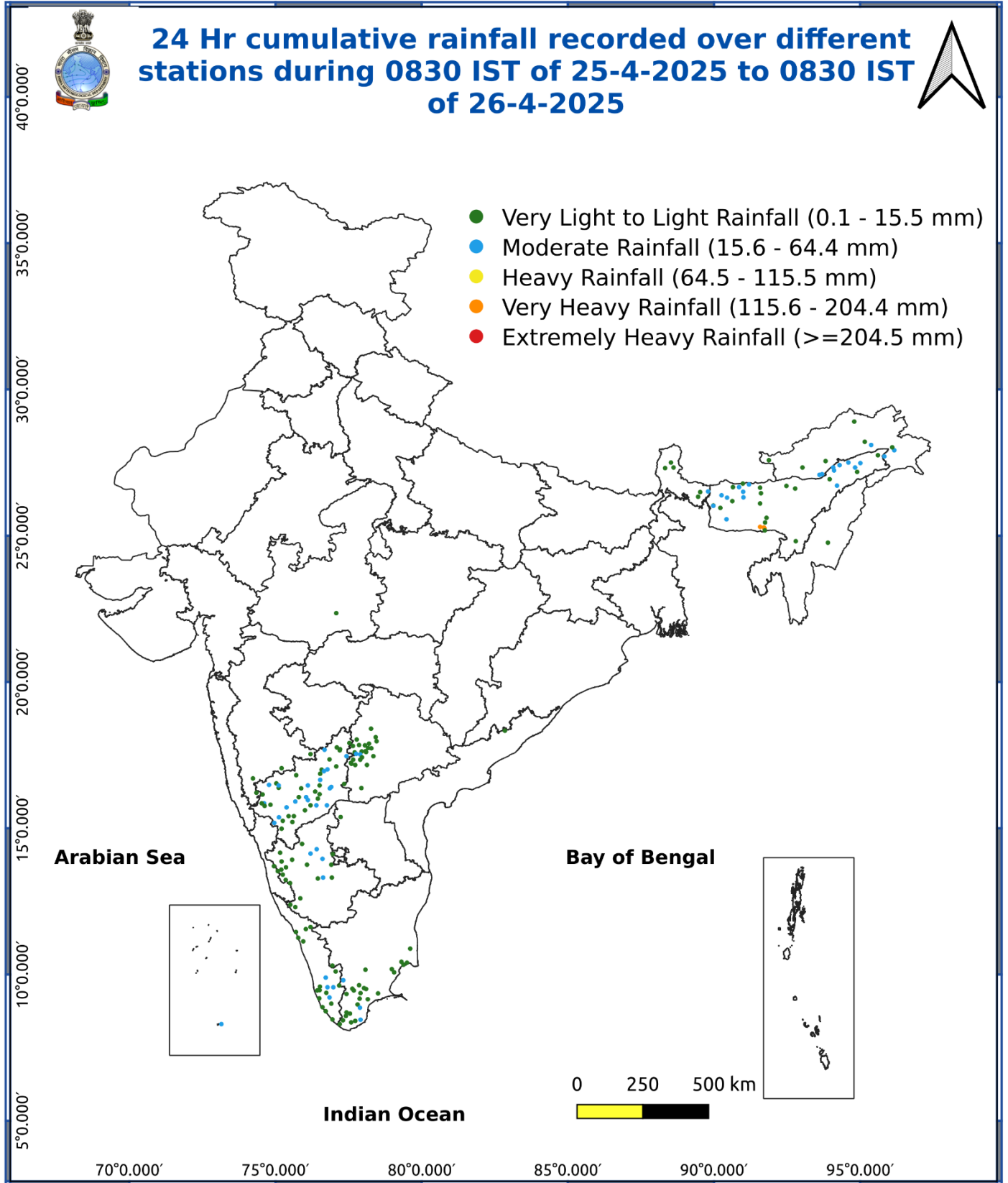


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



* 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)

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty & Squally winds & Hailstorm over

- ✓ **Isolated hailstorm** activity likely over East Madhya Pradesh, Chhattisgarh on 27th & 28th; Vidarbha, Gangetic West Bengal, Bihar, Jharkhand on 27th; Sub-Himalayan West Bengal & Sikkim, South Interior Karnataka on 26th, Odisha on 27th & 28th, North Interior Karnataka on 26th & 27th April
- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** likely over Sub-Himalayan West Bengal & Sikkim on 27th; Gangetic West Bengal, Vidarbha, Chhattisgarh on 27th & 28th; Assam & Meghalaya on 26th & 27th; Telangana on 26th; Bihar during 26th-28th, Odisha during 27th-29th and Jharkhand on 28th & 29th April.

Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- 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:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- 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 conditions over plains of Northwest India & adjoining Central India till 30th April.

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 & Action Suggested due to heavy to very heavy rainfall over Assam & Meghalaya on 26th & 27th April.

Impact Expected

- ❖ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ❖ Minor damage to kutchha roads.
- ❖ Possibilities of damage to vulnerable structure.
- ❖ Localized Landslides/Mudslides
- ❖ Damage to horticulture and standing crops in some areas due to inundation.
- ❖ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

Action Suggested

- ❖ Check for traffic congestion on your route before leaving for your destination.
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.

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

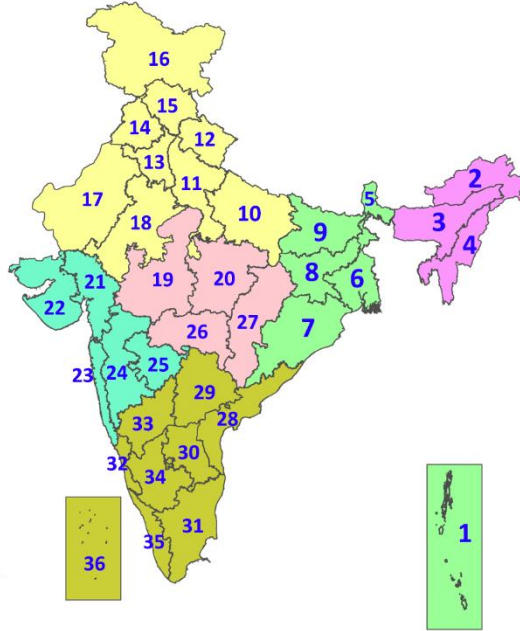
- Postpone sowing of *Jhum* paddy and transplanting of banana in **Arunachal Pradesh**; planting of ginger and turmeric and transplanting of papaya and banana in **Assam**; planting of ginger and transplanting of chilli and brinjal in **Meghalaya**.
- In **Arunachal Pradesh, Assam, Meghalaya, Tripura, Sub Himalayan West Bengal & Sikkim** and **Bihar**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Arunachal Pradesh, West Bengal, Sikkim, Odisha, Bihar, Jharkhand, North-East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh** and **Interior Karnataka**, use hail net and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- To protect standing crops, vegetables and orchards from adverse effects of heat waves and high temperatures, apply light and frequent irrigation in the evening.
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- 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

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidarbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)

- | | | |
|----------------------|----------------------|--------------|
| Fog | Heavy Snow | Cold Wave |
| Heavy Rain | Dust Storm | Cold Day |
| Very Heavy Rain | Heat Wave | Ground Frost |
| Extremely Heavy Rain | Warm Night | |
| Thunder & Lightning | Hot Day | |
| Hailstorm | Hot & Humid | |
| Dust Raising Winds | Strong Surface Winds | |

COLOUR CODED WARNING

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

Probabilistic Forecast

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

DEFINITION/CRITERIA

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