

Thursday, May 1, 2025
Time of Issue: 0745 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings

- ❖ An upper air cyclonic circulation lies over north Bangladesh and another over north Coastal Andhra Pradesh in lower tropospheric levels.
- ❖ A cyclonic circulation lies over southwest Rajasthan and a trough from this cyclonic circulation to north Kerala in lower tropospheric levels.
- ❖ A trough in westerlies runs roughly along Long. 85°E to the north of Lat. 21°N in middle & upper tropospheric levels.
- ❖ Under the influence of these systems, the following weather is likely:

East & Central India:

- ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Bihar, Jharkhand, Odisha, West Bengal & Sikkim, East Madhya Pradesh, Vidarbha, Chhattisgarh during 01st-03rd May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Jharkhand, Bihar on 01st May; East Madhya Pradesh during 01st-03rd May; Vidarbha and Chhattisgarh on 03rd & 04th May.
- ✓ **Isolated hailstorm** activity likely over Odisha on 01st May; East Madhya Pradesh on 02nd & 03rd May.
- ✓ **Isolated heavy rainfall** over Odisha during 01st & 02nd May and over Bihar on 02nd May.

South peninsular India:

- ✓ **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 during 01st-04th May.

Northeast India:

- ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Northeast India during next 5 days.
- ✓ **Isolated hailstorm** very likely over Nagaland and Manipur on 01st May.

Northwest India:

- ❖ A fresh and active Western Disturbance likely to impact Northwest India from 02nd May, 2025. Under its influence:
 - ✓ **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 01st-06th May.
 - ✓ **Isolated hailstorm** very likely over Uttarakhand on 01st & 02nd May and **thundersquall** wind speed reaching 50-60 kmph on 01st May.
 - ✓ Isolated to scattered rainfall with **thunderstorm, lightning & strong winds speed reaching 40-60 kmph** likely over Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Rajasthan during 01st-05th May.
 - ✓ **Duststorm** very likely at isolated places over East Uttar Pradesh on 01st May; Punjab, Haryana, Chandigarh & Delhi on 01st & 02nd May; West Rajasthan during 01st-04th May and East Rajasthan during 01st-03rd May.

Temperature Forecast:

- ❖ No significant change in maximum temperatures likely over Northwest India during next 2 days and fall by 2-4°C for subsequent 5 days.
- ❖ No significant change in maximum temperatures likely over Central & West India during next 3 days and fall by 2-4°C for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

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

- ❖ **Heat wave conditions** very likely in isolated pockets of Jammu division, southwest Rajasthan on 01st May.
- ❖ **Hot & humid weather** is likely to prevail over Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe during 01st May & 02nd May; Gujarat state, Marathawada and Madhya Maharashtra on 01st May.

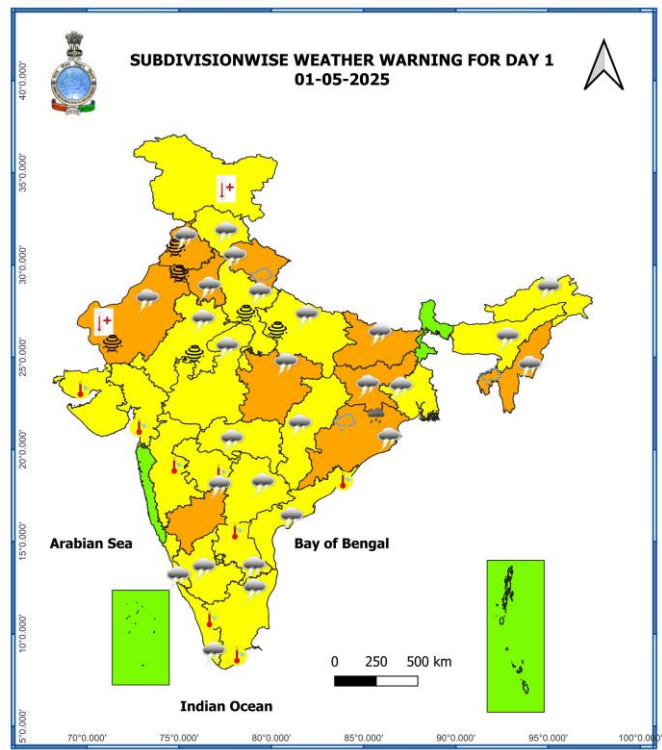
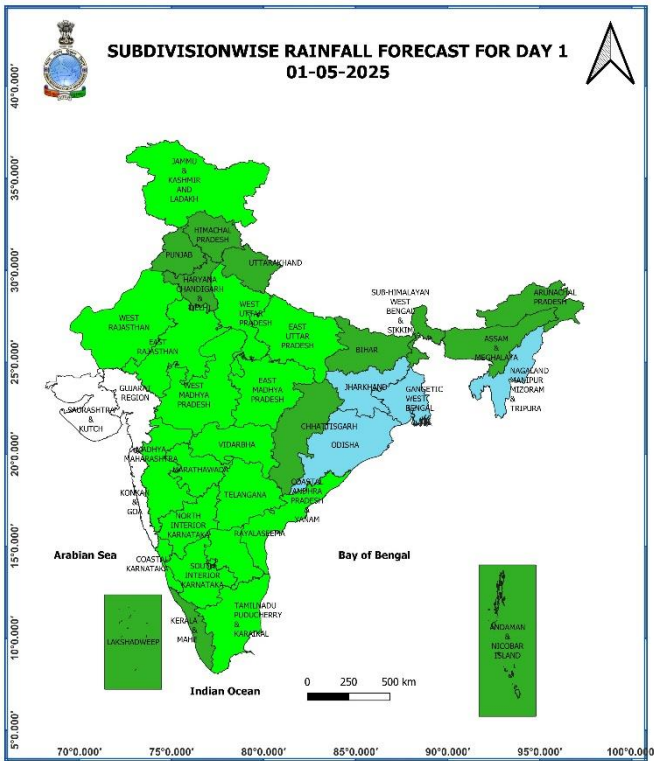
Main Weather Observations:

- ❖ **Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): a few places over Gangetic West Bengal, Odisha; at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Andaman & Nicobar Islands.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Gangetic West Bengal:** Barrackpor_ IAF & Kolkata Alipore 3 each, Burdwan- 2; **Odisha:** Malkangiri & Bhawanipatna 2 each; **Coastal Andhra Pradesh & Yanam:** Vishakhapatnam, Tuni 2 each; **Kerala:** Punalur 3; **Andaman & Nicobar Islands:** Maya bandar, Nancowry- 2 each.
- ❖ Yesterday, **Heat wave conditions** prevailed in isolated pockets of West Rajasthan.
- ❖ **Minimum Temperature Departures (as on 30-04-2025):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh; **above normal (1.6°C to 3.0°C)** at a few places over East Rajasthan, Saurashtra & Kutch and Madhya Maharashtra; at isolated places over Haryana-Chandigarh-Delhi, Uttar Pradesh, Gujarat Region, West Madhya Pradesh and Rayalaseema. These were **markedly below normal (-5.1 or below)** at a few places over Chhattisgarh; at isolated places over Odisha; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over East Madhya Pradesh and Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at many places over Jharkhand; at isolated places over Gangetic West Bengal and over rest parts of the country (**Fig. 4**). Yesterday, the **lowest minimum temperature** of 17.0°C was reported at **Ambikapur (Chhattisgarh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 30-04-2025):** Maximum Temperatures were **markedly above normal (5.1°C or more)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **appreciably above normal (3.1°C to 5.0°C)** at a few places over West Rajasthan; **above normal (1.6°C to 3.0°C)** at isolated places over East Rajasthan, Gujarat state, West Madhya Pradesh, Konkan & Goa, Marathwada, Vidarbha, Assam & Meghalaya, Arunachal Pradesh. These were **markedly below normal (-5.1 or below)** at isolated places over Odisha, Chhattisgarh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Gangetic West Bengal, East Uttar Pradesh; at isolated places over Bihar; **below normal (-1.6°C to -3.0°C)** at a few places over Jharkhand; at isolated places over Uttarakhand, Haryana, West Uttar Pradesh, Coastal Andhra Pradesh & Yanam Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands and normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature** of 46.8°C was reported at **Barmer (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

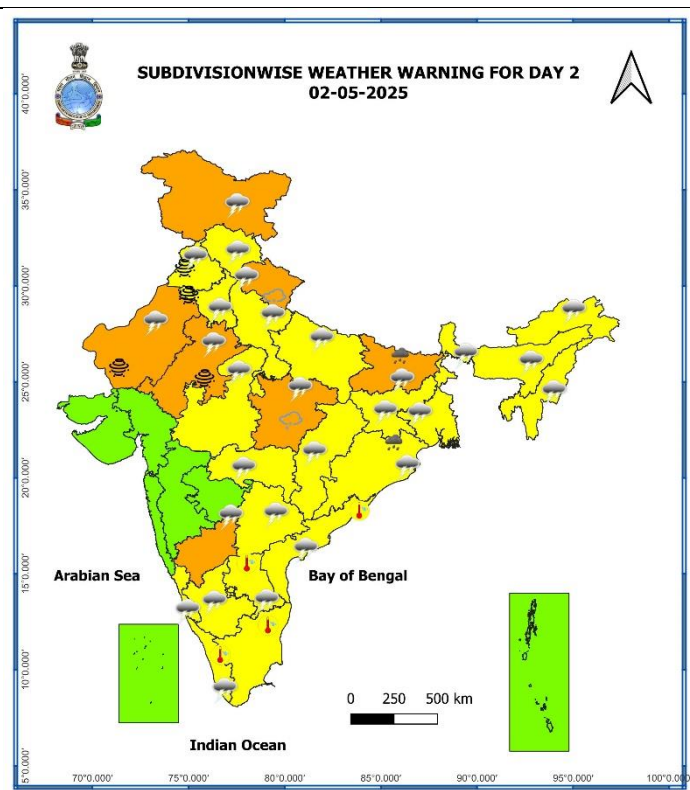
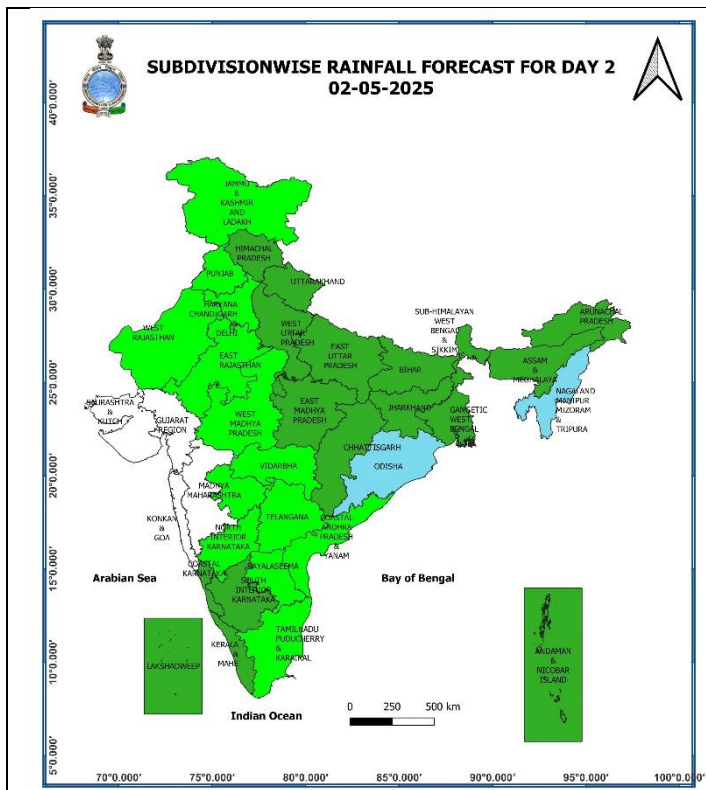
- ❖ The upper air **cyclonic circulation** over southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The north-south **trough** from above upper air cyclonic circulation over southwest Rajasthan & neighbourhood to north Kerala across southeast Rajasthan, West Madhya Pradesh, Vidarbha, Marathwada, Interior Karnataka extending upto 1.5 km above mean sea level persists.
- ❖ An embedded upper air **cyclonic circulation** lies over central parts of East Rajasthan & neighbourhood on the above trough at 1.5 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over north Bangladesh & neighbourhood extending between 1.5 & 5.8 km above mean sea level persists.
- ❖ The **trough in westerlies** roughly along Long. 85°E to the north of Lat. 21°N between 7.6 & 9.4 km above mean sea level persists.
- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan region from 02nd May, 2025.
- ❖ The upper air **cyclonic circulation** over north Coastal Andhra Pradesh & Yanam at 0.9 km above mean sea level has become less marked.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 08th May, 2025)



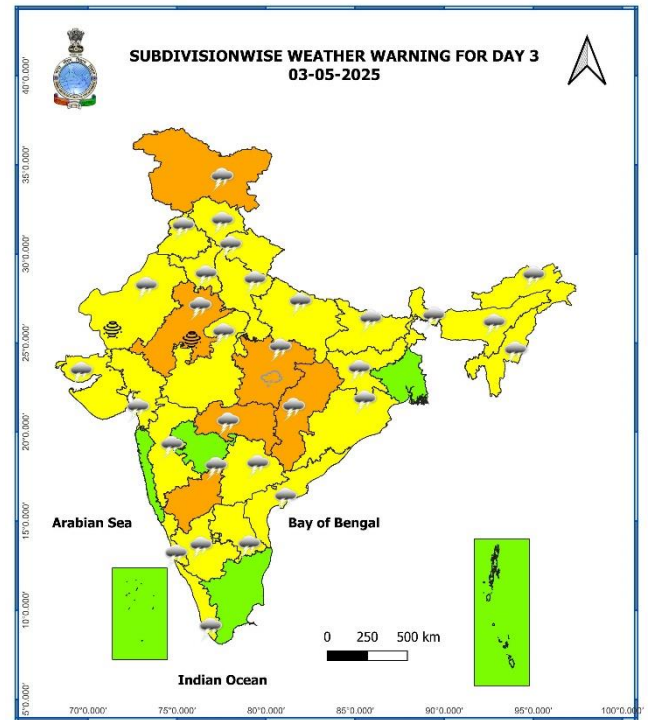
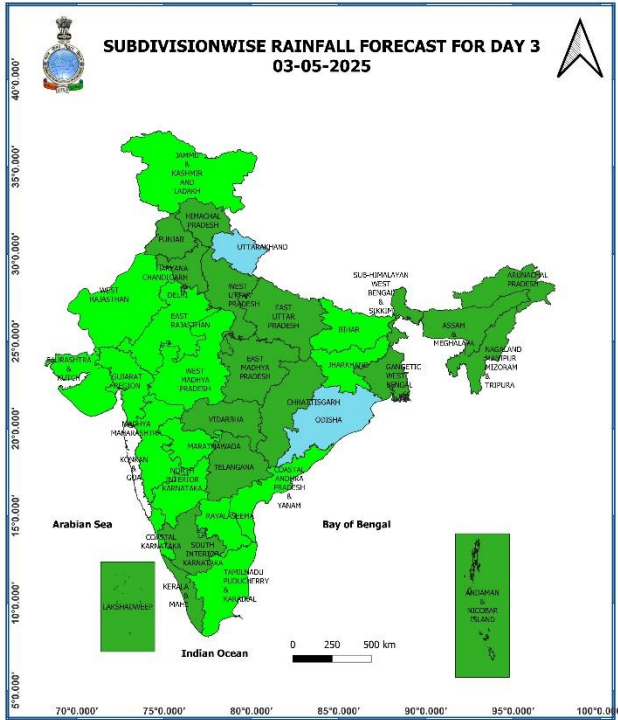
01st May (Day 1)

- ❖ **Thunderstorms accompanied with Heavy Rainfall** very likely at isolated places over Odisha.
- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** very likely at isolated places over Jharkhand, Uttarakhand, Punjab, West Rajasthan and East Madhya Pradesh, Haryana, Chandigarh & Delhi, Bihar and North Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram, Meghalaya & Tripura, Gangetic West Bengal, Odisha, Himachal Pradesh, East Rajasthan, West Madhya Pradesh and Chhattisgarh, Coastal Andhra Pradesh.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** very likely at isolated places over East Uttar Pradesh, West Uttar Pradesh and South Interior Karnataka, Vidarbha and Coastal Karnataka.
- ❖ **Thunderstorm & Lightning** very likely at isolated places over Arunachal Pradesh, Telangana and Kerala, Rayalaseema and Tamilnadu & Puducherry.
- ❖ **Hot and Humid conditions** very likely at isolated places over Gujarat Region, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Rayalaseema, Tamilnadu & Puducherry and Kerala.
- ❖ **Heat Wave conditions** very likely at isolated places over Jammu division and West Rajasthan.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** very likely at isolated places over East Uttar Pradesh, West Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, West Rajasthan and East Rajasthan.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Nagaland, Manipur, Meghalaya & Tripura, Odisha and Uttarakhand.



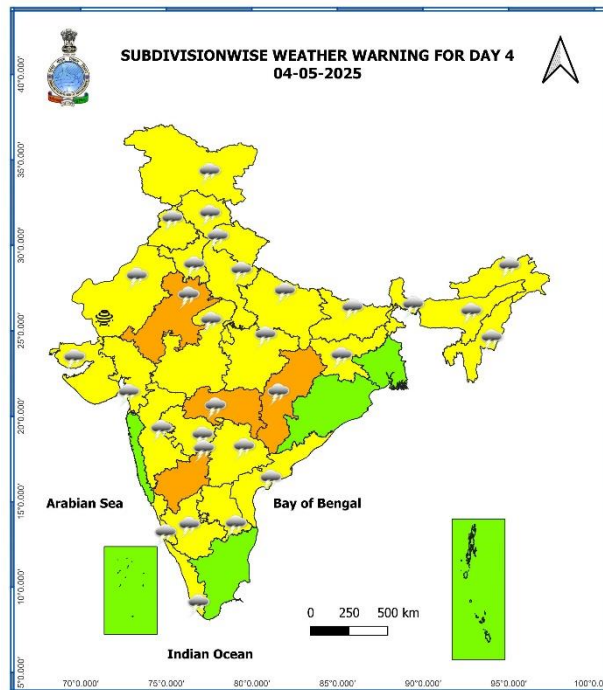
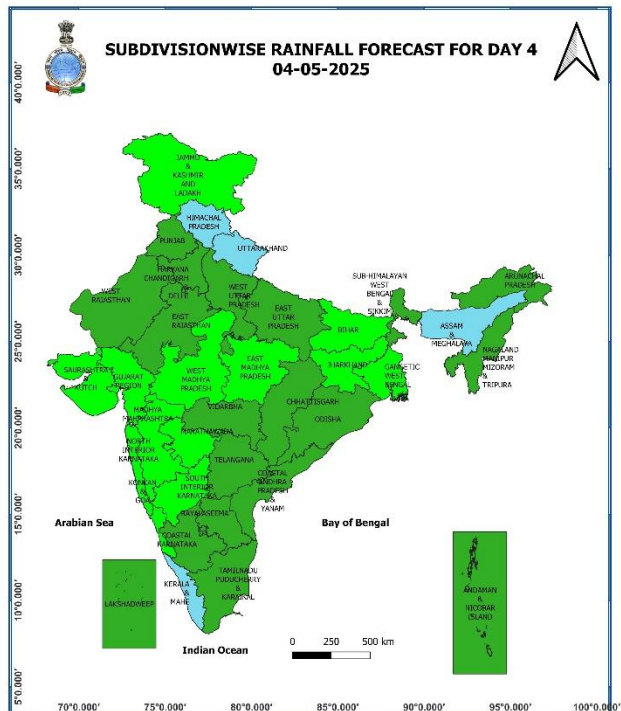
02nd May (Day 2)

- ❖ **Thunderstorms accompanied with Heavy Rainfall** very likely at isolated places over Odisha and Bihar.
- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** very likely at isolated places over Bihar, Jammu division and Ladakh, West Rajasthan, East Rajasthan and East Madhya Pradesh, North Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** very likely at isolated places over Gangetic West Bengal, Odisha, Jharkhand, Uttarakhand, Punjab, Himachal Pradesh, West Madhya Pradesh, Vidarbha and Coastal Karnataka, East Uttar Pradesh, West Uttar Pradesh, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh and South Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** very likely at isolated places over Assam & Meghalaya, Mizoram, Nagaland, Manipur, Meghalaya & Tripura, South Himalayan West Bengal & Sikkim and Chhattisgarh.
- ❖ **Thunderstorm & Lightning** very likely at isolated places over Arunachal Pradesh and Telangana, Rayalaseema and Kerala.
- ❖ **Hot and Humid conditions** very likely at isolated places over Coastal Andhra Pradesh, Rayalaseema, Kerala, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, West Rajasthan and East Rajasthan.
- ❖ **Thunderstorm accompanied Hailstorm** very likely at isolated places over Uttarakhand and East Madhya Pradesh.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off North Andhra Pradesh coast. **Squally weather with wind speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over Gulf of Mannar and adjoining Comorin area.



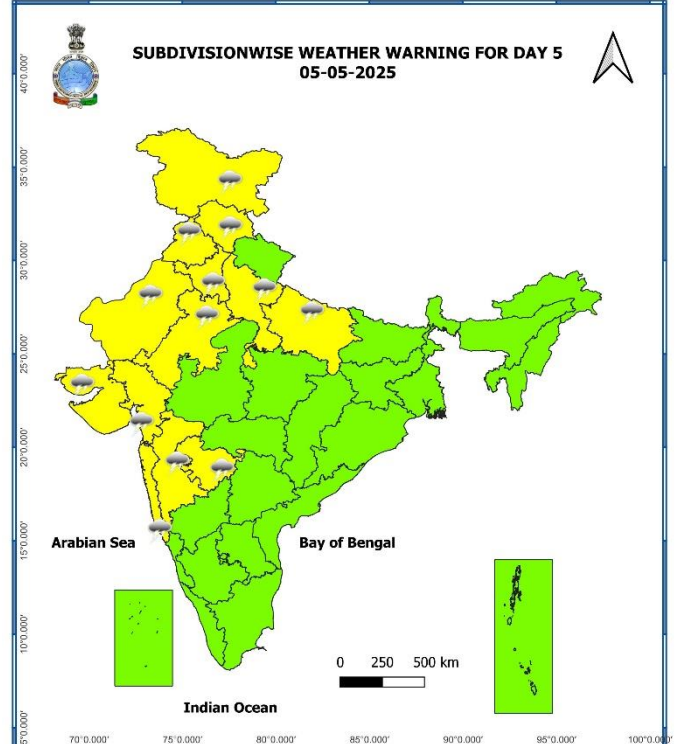
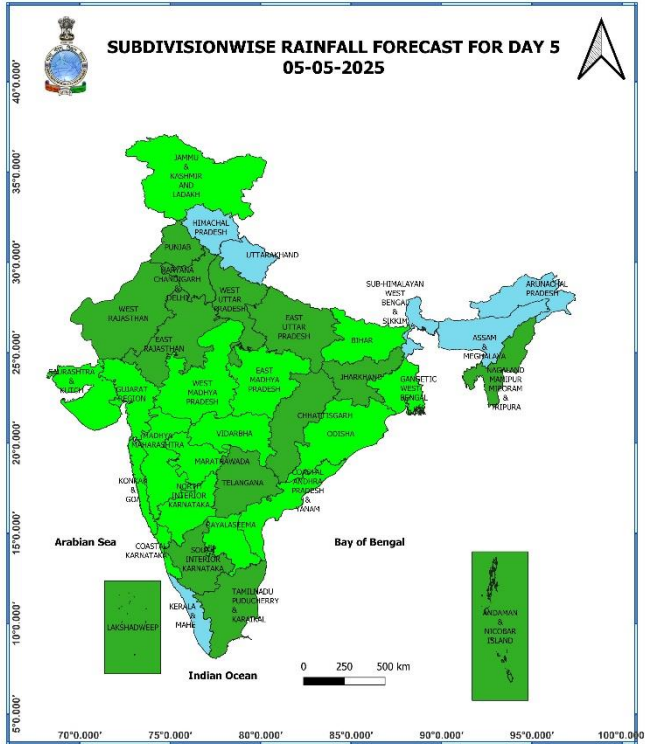
03rd May (Day 3)

- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** likely at isolated places over Jammu and Kashmir and Ladakh, East Rajasthan, East Madhya Pradesh, Vidarbha and Chhattisgarh and North Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places over Jharkhand, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Punjab, Himachal Pradesh, West Rajasthan, West Madhya Pradesh, Coastal Karnataka, Haryana, Chandigarh & Delhi and South Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, South Himalayan West Bengal & Sikkim, Odisha, Bihar, Gujarat Region, Saurashtra & Kutch and Coastal Andhra Pradesh.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Arunachal Pradesh, Madhya Maharashtra, Telangana Rayalaseema, Kerala.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over West Rajasthan and East Rajasthan.
- ❖ **Thunderstorm accompanied with Hailstorm** likely at isolated places over East Madhya Pradesh.
- ❖ **Squally weather with wind speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over Gulf of Mannar and adjoining Comorin area



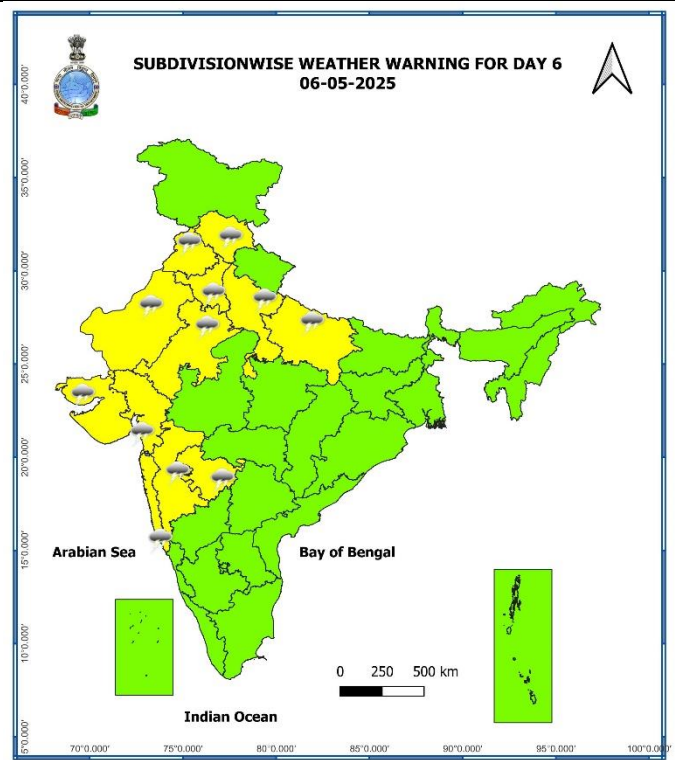
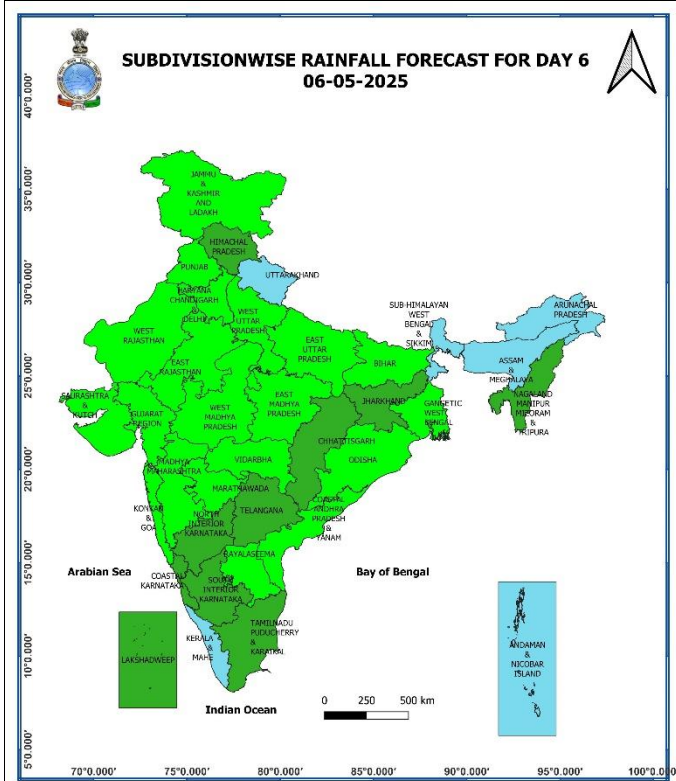
04th May (Day 4)

- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** likely at isolated places over East Rajasthan, Vidarbha, Chhattisgarh and North Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places over Jharkhand, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Punjab, Jammu and Kashmir and Ladakh, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Coastal Karnataka, South Interior Karnataka and Haryana, Chandigarh & Delhi.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, South Himalayan West Bengal & Sikkim, Bihar, Himachal Pradesh, Gujarat Region, Saurashtra & Kutch, Coastal Andhra Pradesh and Kerala.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Arunachal Pradesh, Madhya Maharashtra, Marathwada, Telangana and Rayalaseema.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over West Rajasthan.
- ❖ **Squally weather with wind speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over Gulf of Mannar and adjoining Comorin area.



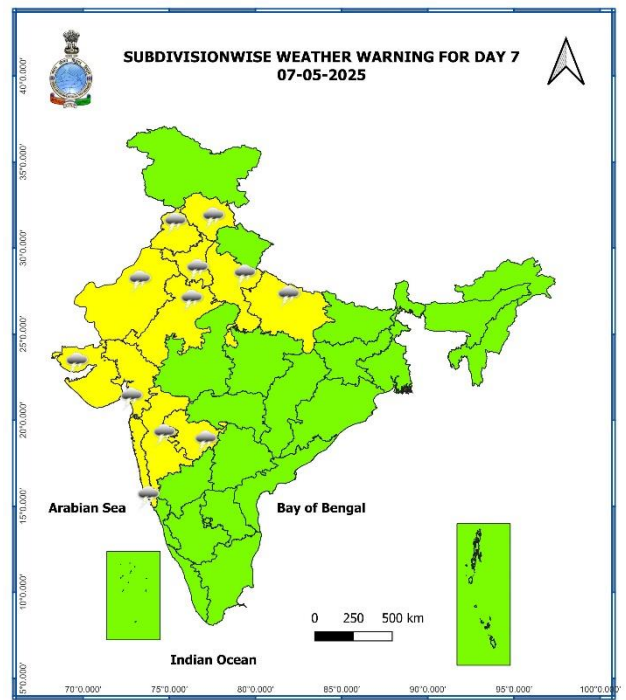
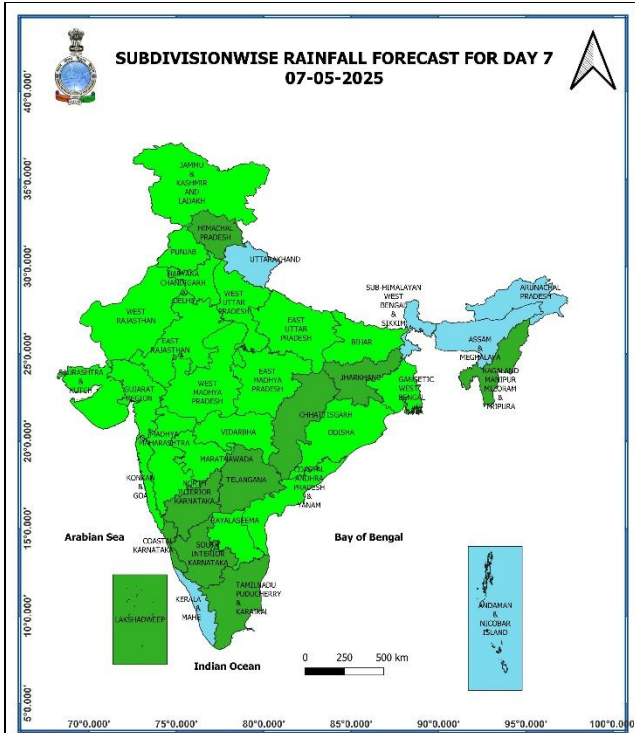
05th May (Day 5)

- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Uttar Pradesh, Punjab, Jammu and Kashmir and Ladakh and East Rajasthan.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Himachal Pradesh, West Rajasthan, Gujarat Region and Saurashtra & Kutch.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Konkan & Goa, Madhya Maharashtra and Marathwada.



06th May (Day 6)

- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places over East Rajasthan.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Uttar Pradesh, Punjab, Himachal Pradesh, West Rajasthan, Gujarat Region and Saurashtra & Kutch.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Konkan & Goa, Madhya Maharashtra and Marathwada.



07th May (Day 7)

- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places over East Rajasthan.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Uttar Pradesh, Punjab, Himachal Pradesh, West Rajasthan, Gujarat Region and Saurashtra & Kutch.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Konkan & Goa, Madhya Maharashtra and Marathwada.

Weather Outlook for subsequent 3 days (During 08th May- 10th 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

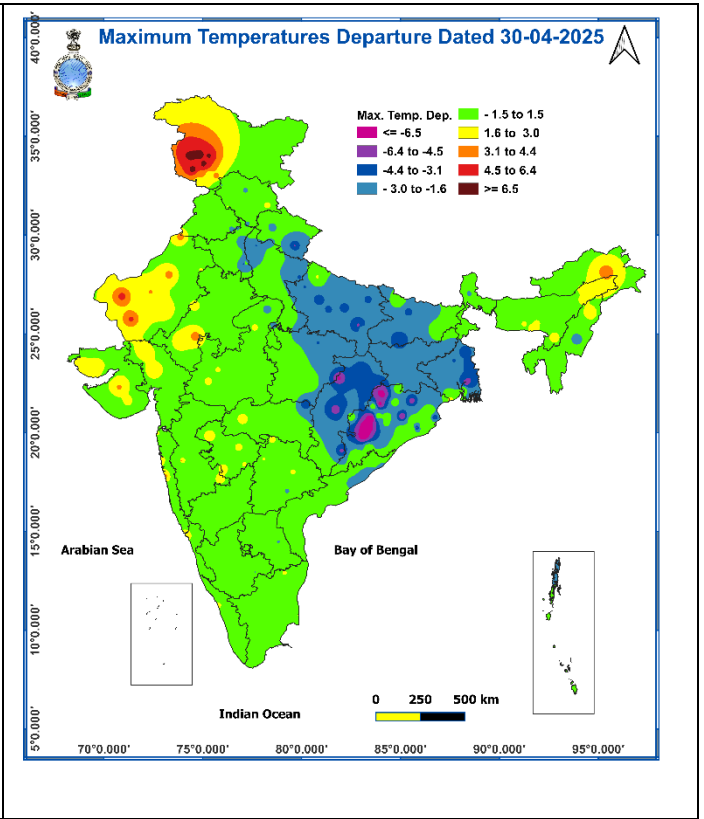
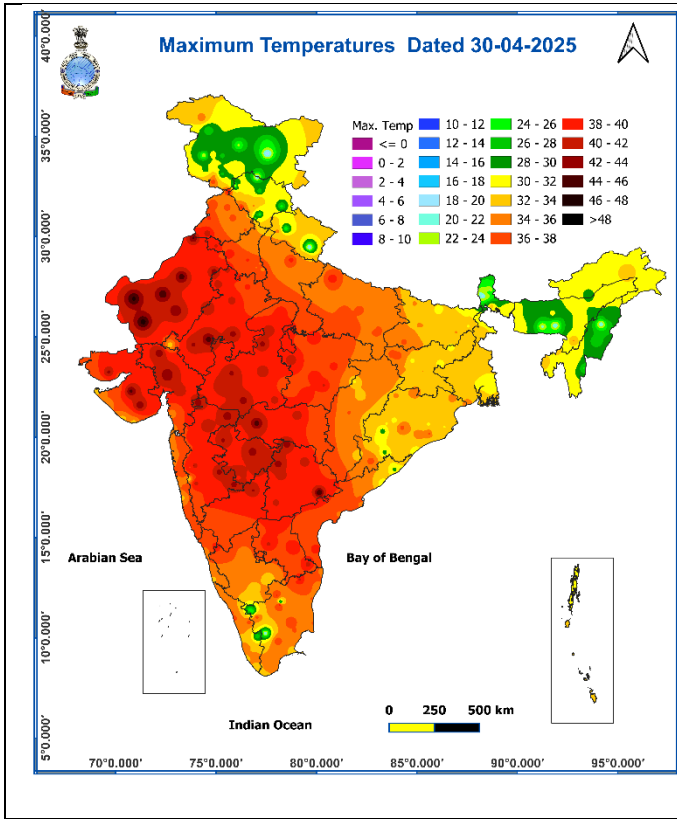


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

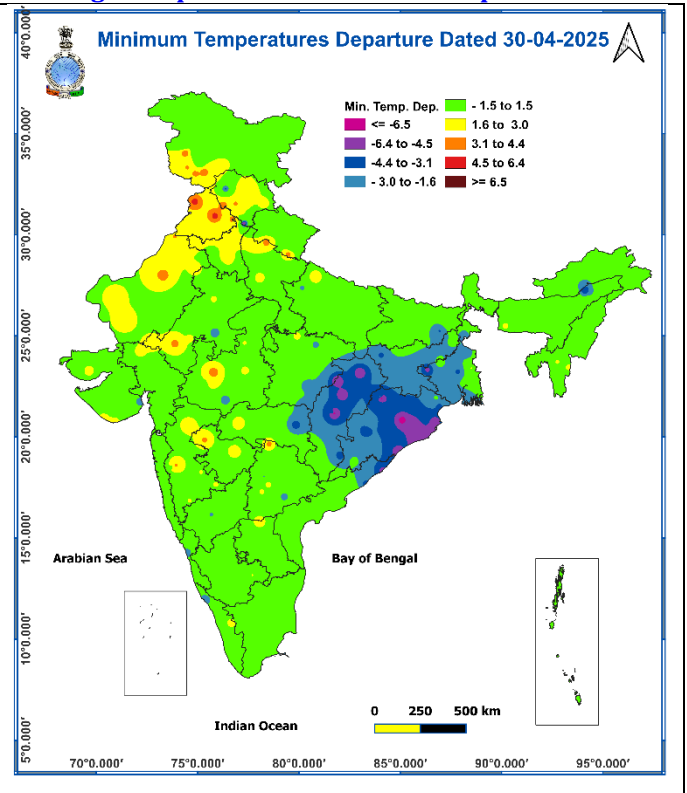
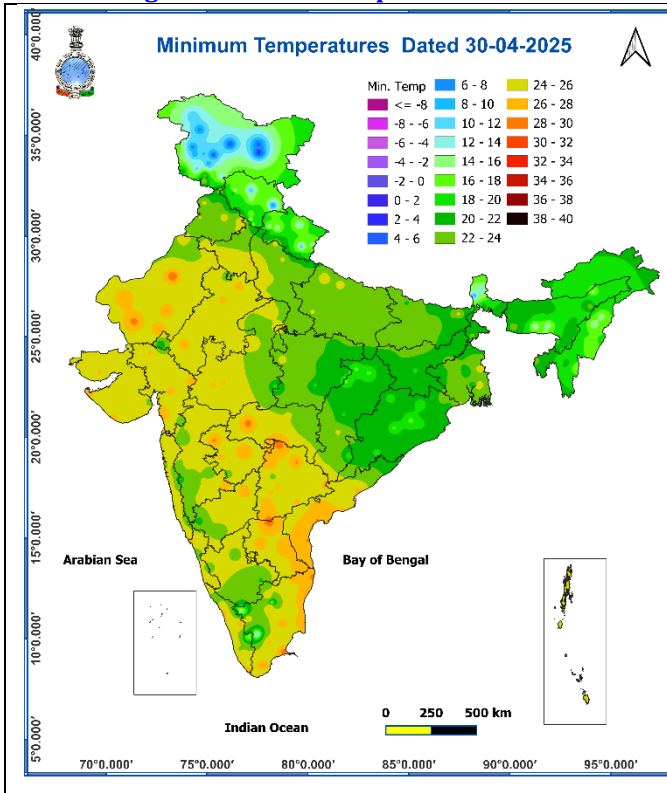
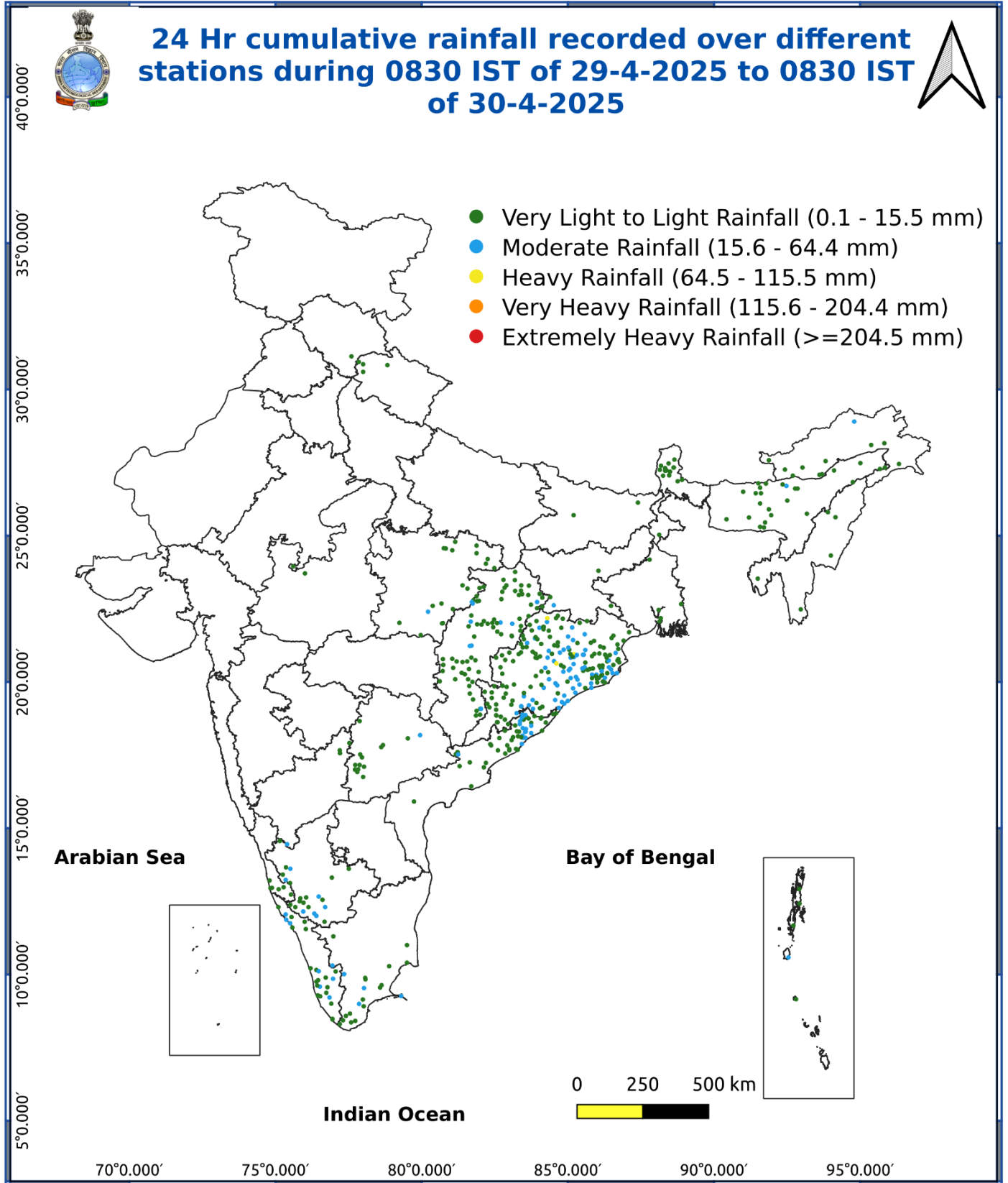


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



* 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

- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** likely over Jharkhand, Bihar on 01st May; East Madhya Pradesh during 01st May-03rd May; Vidarbha and Chhattisgarh on 03rd & 04th May, Punjab, Haryana Chandigarh & Delhi, Uttarakhand on 01st May, Jammu division on 02nd & 03rd May, North Interior Karnataka during 01st May--04th May.
- ✓ **Isolated hailstorm** activity likely over Odisha on 1st May, Uttarakhand on 01st & 02nd May; East Madhya Pradesh on 02nd & 03rd May and Nagaland, Manipur, Mizoram & Tripura on 01st May.

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

- ❖ **Heat wave to severe heat wave conditions** very likely in isolated pockets of southwest Rajasthan and Jammu division on 01st May.

Yellow alert Areas

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

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

- In **North Eastern States** and **Odisha**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Gangetic West Bengal, Odisha, Jharkhand, Vidarbha** and **Chhattisgarh**, 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 *

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)