

Tuesday, April 29, 2025
Time of Issue: 1315 hours IST
(MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

- ❖ A trough in westerlies runs roughly along Long. 84°E to the north of Lat. 15°N in middle & upper tropospheric levels and another trough runs along Long. 90°E to the north of Lat. 21°N in lower & middle tropospheric levels.
- ❖ An upper air cyclonic circulation lies over north Bangladesh in lower tropospheric levels.
- ❖ A cyclonic circulation lies over southwest Madhya Pradesh and a trough from this cyclonic circulation to south Tamil Nadu in lower tropospheric levels. A north-south trough from west Vidarbha to north Kerala in lower tropospheric levels.
- ❖ Under the influence of these systems:

East & Central India:

- ✓ **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 during 29th April-02nd May.
- ✓ **Isolated hailstorm** activity likely over Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha on 29th April.
- ✓ **Isolated heavy rainfall** over Odisha during 29th April-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 & strong winds speed reaching 30-50 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 30th April to 04th 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 30th April to 04th May.
 - ✓ **Duststorm** very likely at isolated places over East Uttar Pradesh on 29th & 30th April; Punjab, Haryana, Chandigarh & Delhi on 01st May and Rajasthan during 01st-05th 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 on 02nd & 03rd May.

Northeast India:

- ✓ **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.
- ✓ **Heavy rainfall** likely over Tripura, Arunachal Pradesh on 29th and Assam & Meghalaya on 29th & 30th April.

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 Gujarat during next 4 days and fall by 2-4°C for subsequent 3 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 to severe heat wave conditions** very likely in isolated pockets of Saurashtra & Kutch on 29th and isolated heat wave conditions on 30th April.
- ❖ **Heat wave conditions** very likely in some parts of West Rajasthan on 29th & 30th April; in isolated pockets on 01st May; in isolated pockets over Jammu-Kashmir, Himachal Pradesh, East Rajasthan on 29th & 30th April.

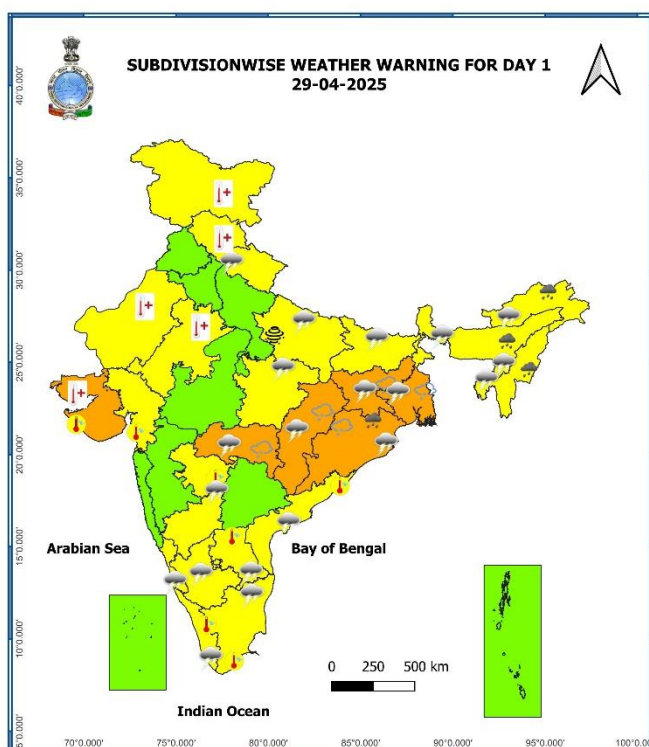
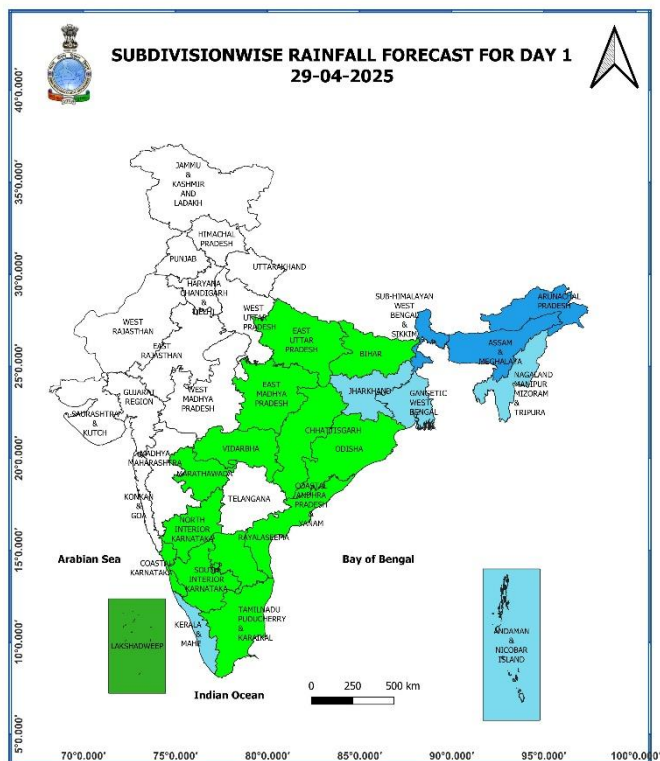
Main Weather Observations:

- ❖ **Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over West Bengal & Sikkim; at many places over Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe; at a few places over Jharkhand, Odisha, Andaman & Nicobar Islands; at isolated places over East Uttar Pradesh, Bihar, Vidarbha, Chhattisgarh, Tamilnadu Puducherry & Karaikal, Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam and Telangana.
- ❖ **Significant rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Sub-Himalayan West Bengal & Sikkim:** Chepan (dist Alipurduar) 7, Mathabhanga (dist Cooch Behar) 6, Barobhisha (dist Alipurduar) 5; **Assam & Meghalaya:** Barpathar (dist Golaghat) 6, Marigaon Arg (dist Morigaon) 6, Laharighat Arg (dist Morigaon) 6, Resubelpara (dist North Garo Hills) 5, Haflong_aws (dist Dima Hasao) 5; **Nagaland, Manipur, Mizoram & Tripura:** Belonia (dist South Tripura) 6, Teliamura_arg (dist Khowai) 5, Wokha_aws (dist Wokha) 5,
- ❖ **Hailstorm** occurred at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha and Coastal Andhra Pradesh.
- ❖ **Heavy rainfall** recorded at isolated places over Assam & Meghalaya and Odisha.
- ❖ **Minimum Temperature Departures (as on 29-04-2025):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, East Rajasthan, East Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at a few places over Madhya Maharashtra; at isolated places over Himachal Pradesh, Haryana-Chandigarh, West Rajasthan, Madhya Pradesh. These are **markedly below normal (-5.1 or below)** at isolated places over Gangetic West Bengal; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Odisha; at many places over Chhattisgarh, Jharkhand; at isolated places over Vidarbha, Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at a few places over Delhi; at isolated places over Bihar, Telangana, Assam, Mizoram, Kerala & Mahe and normal over rest parts of the country (**Fig. 4**). Today, the **lowest minimum temperature** of **21.2°C** is reported at **Nowgong (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 28-04-2025):** 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 isolated places over West Rajasthan, Saurashtra & Kutch; **above normal (1.6°C to 3.0°C)** at isolated places over Himachal Pradesh, Punjab, East Rajasthan, Gujarat Region, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra. These were **markedly below normal (-5.1 or below)** at many places over Bihar; at isolated places over East Uttar Pradesh, Jharkhand, Chhattisgarh, Odisha, West Bengal & Sikkim; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **below normal (-1.6°C to -3.0°C)** at a few places over East Madhya Pradesh, West Uttar Pradesh; at isolated places over Telangana, Rayalaseema, Interior Karnataka and normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature** of **46.4°C** was reported at **Barmer (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0830 hours IST)

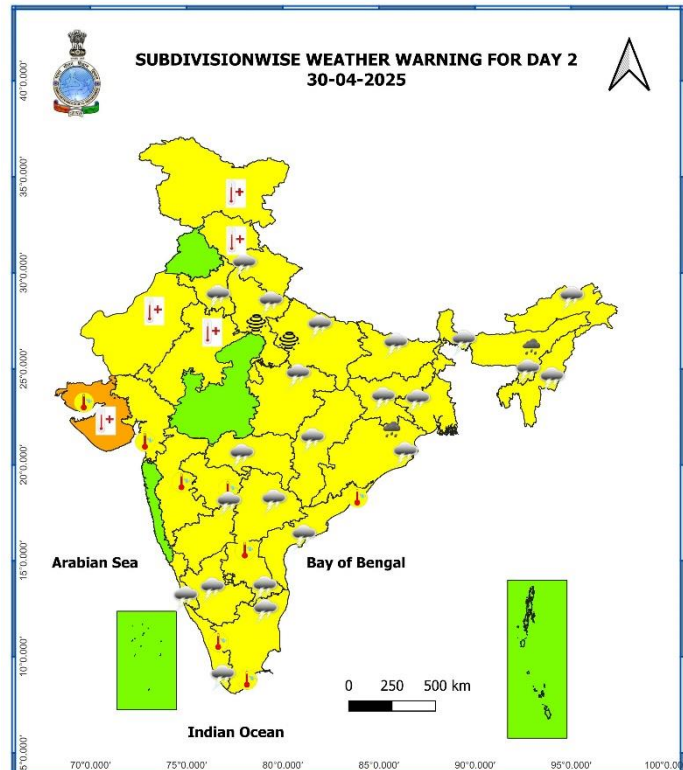
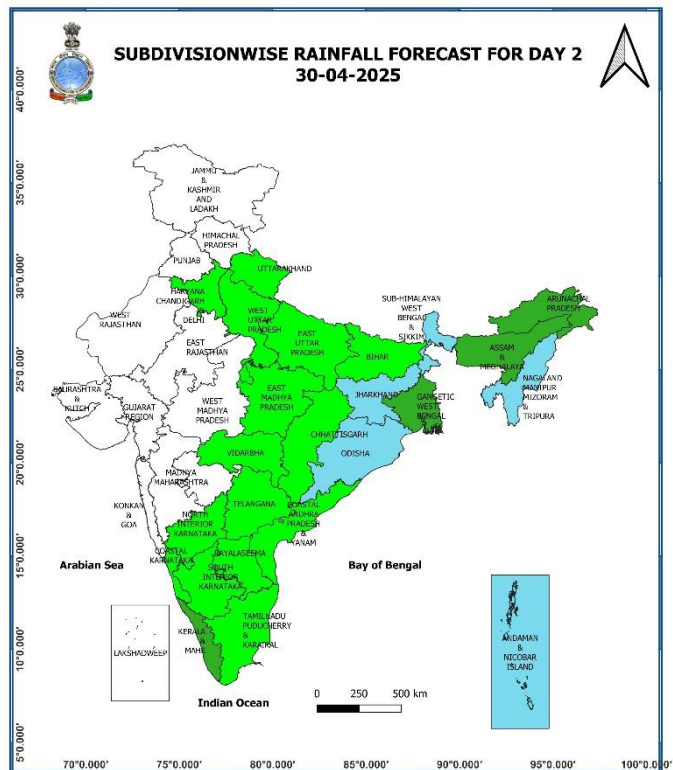
- ❖ The **trough in westerlies** roughly along Long. 84°E to the north of Lat. 15°N persist and now seen between 5.8 & 9.6 km above mean sea level.
- ❖ The **cyclonic circulation** over southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over northwest Madhya Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The north-south **trough** from above upper air cyclonic circulation over northwest Madhya Pradesh & neighbourhood to south Tamil Nadu across Vidarbha, Marathwada, Interior Karnataka, Tamil Nadu at 0.9 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over Northeast Bangladesh now lies over north Bangladesh and extends upto 1.5 km above mean sea level.
- ❖ A **trough in westerlies** between 3.1 & 4.5 km above mean sea level runs roughly along Long. 90°E to the north of Lat. 21°N.
- ❖ An upper air **cyclonic circulation** lies over Lakshadweep & neighbourhood at 1.5 km above mean sea level.
- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan region from 02nd May, 2025.
- ❖ The upper air **cyclonic circulation** over northeast Assam & neighbourhood at 1.5 km above mean sea level has become less marked.
- ❖ The upper air **cyclonic circulation** over Comorin area & neighbourhood at 1.5 km above mean sea level has become less marked.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 05th May, 2025)



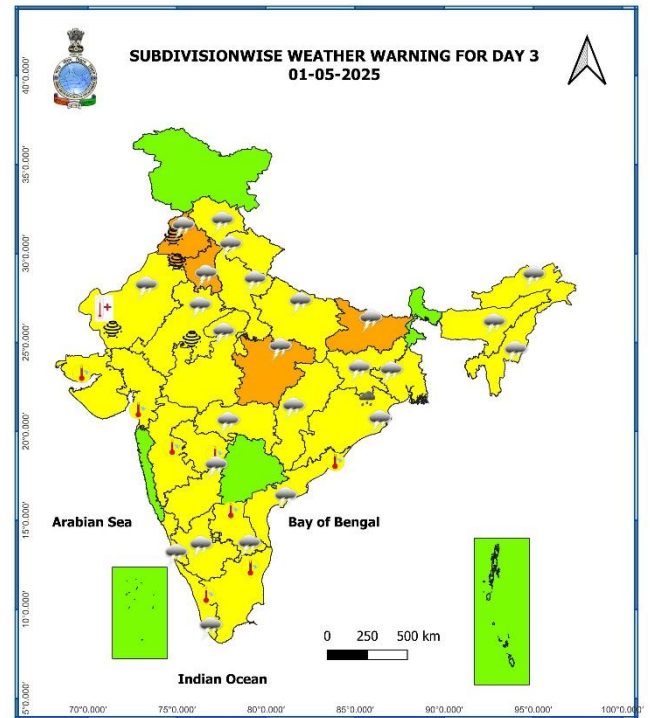
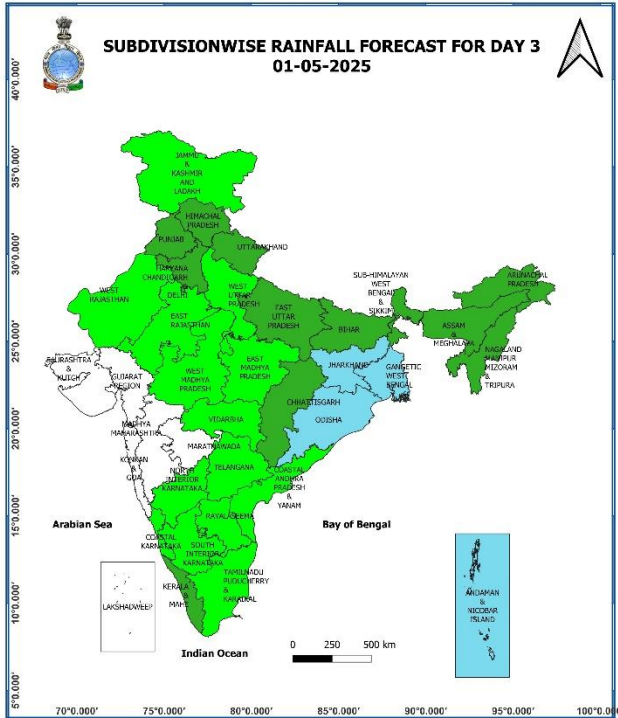
29th April (Day 1)

- ❖ **Thundersquall with wind speed reaching 50-60kmph** very likely at isolated places over Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand.
- ❖ **Thunderstorms with gusty winds(40-50kmph)** very likely at isolated places over Uttarakhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Assam & Meghalaya, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, North Interior Karnataka
- ❖ **Thunderstorms with gusty winds(40-50kmph)** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka.
- ❖ **Thunderstorm & Lightning** very likely at isolated places over Arunachal Pradesh, Coastal Karnataka.
- ❖ **Hailstorm** very likely at isolated places over Gangetic West Bengal, Jharkhand, Odisha, Vidarbha, Chhattisgarh.
- ❖ **Heavy Rain** very likely at isolated places over Odisha, Arunachal Pradesh, Assam & Meghalaya.
- ❖ **Hot and Humid** very likely at isolated places over coastal areas of Gujarat State, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema.
- ❖ **Heat Wave to severe heat wave** very likely at isolated places over Saurashtra & Kutch; **Heat Wave** at a few places over West Rajasthan; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, East Rajasthan.
- ❖ **Dust Storm** very likely at isolated places over East Uttar Pradesh.



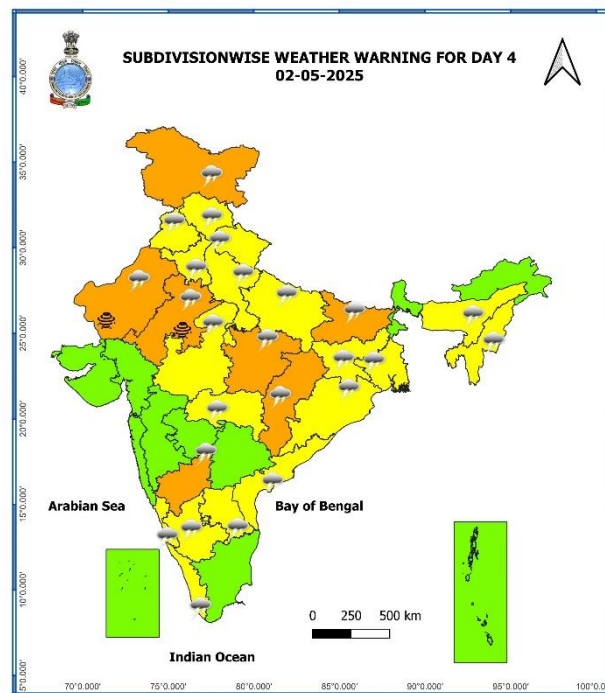
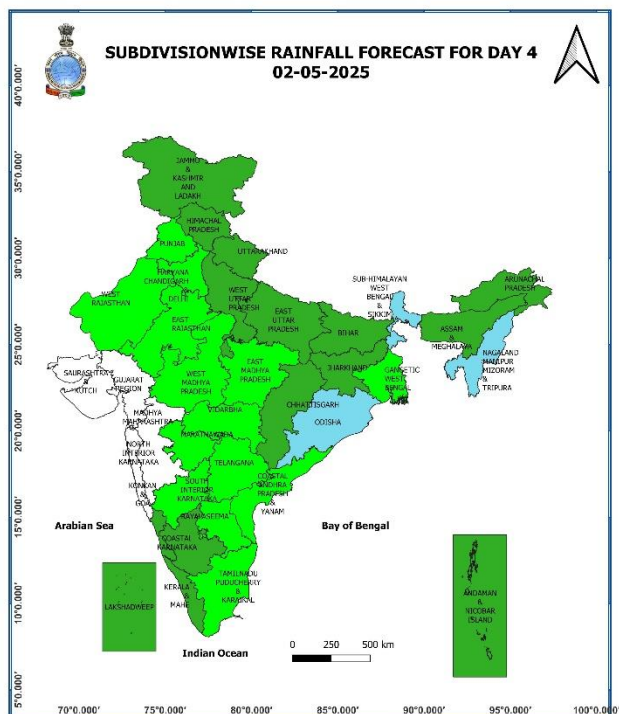
30th April (Day 2)

- ❖ **Thunderstorms with gusty winds(40-50kmph)** likely at isolated places over Uttarakhand, Uttar Pradesh, Jharkhand, Odisha, Telangana, North Interior Karnataka.
- ❖ **Thunderstorms with gusty winds(30-40kmph)** likely at isolated places over Haryana-Chandigarh-Delhi, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, South Interior Karnataka.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Arunachal Pradesh, Coastal Karnataka.
- ❖ **Heavy Rain** very likely at isolated places over Odisha, Assam & Meghalaya.
- ❖ **Hot and Humid** very likely at isolated places over Madhya Maharashtra, Marathwada, coastal areas of Gujarat State, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema.
- ❖ **Heat Wave** very likely at a few places over West Rajasthan; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, East Rajasthan, Saurashtra & Kutch.
- ❖ **Dust Storm** very likely at isolated places over Uttar Pradesh.



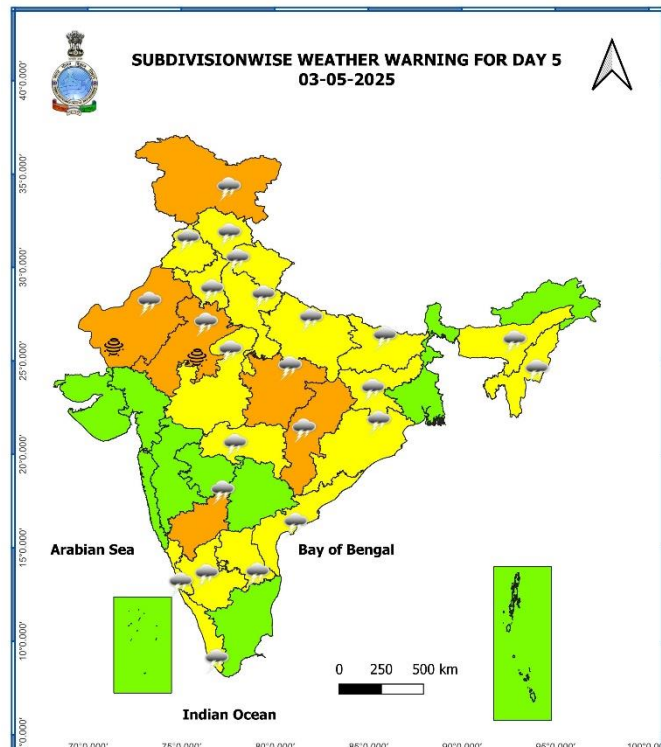
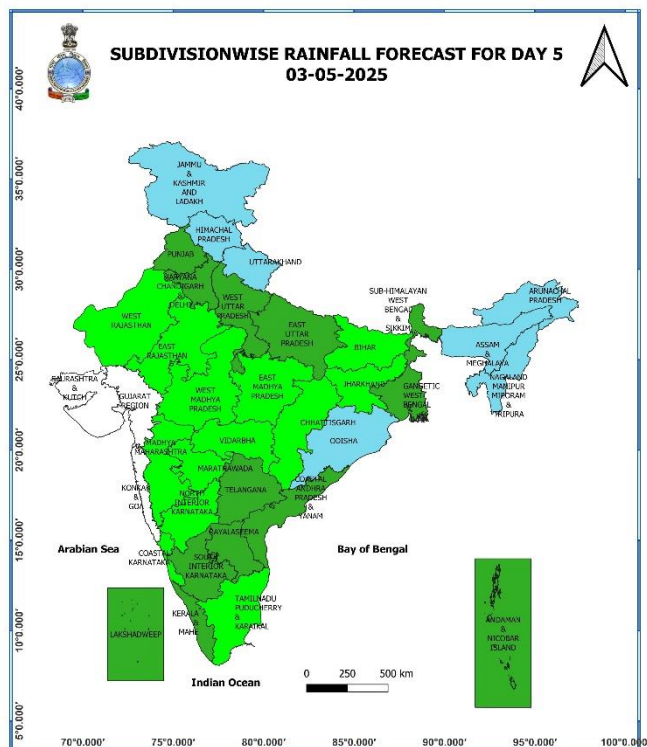
01st May (Day 3)

- ❖ **Thundersquall with wind speed reaching 50-60kmph** likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, East Madhya Pradesh, Bihar.
- ❖ **Thunderstorms with gusty winds(40-50kmph)** likely at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha, North Interior Karnataka, Coastal Andhra Pradesh & Yanam.
- ❖ **Thunderstorms with gusty winds(30-40kmph)** likely at isolated places over Vidarbha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, South Interior Karnataka.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Arunachal Pradesh, Kerala & Mahe, Coastal Karnataka.
- ❖ **Hot and Humid** likely at isolated places over Madhya Maharashtra, Marathwada, coastal area of Gujarat State, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema.
- ❖ **Heat Wave** very likely at isolated places over West Rajasthan.
- ❖ **Dust Storm** likely at isolated places over Punjab, Rajasthan.
- ❖ **Heavy Rain** likely at isolated places over Odisha.



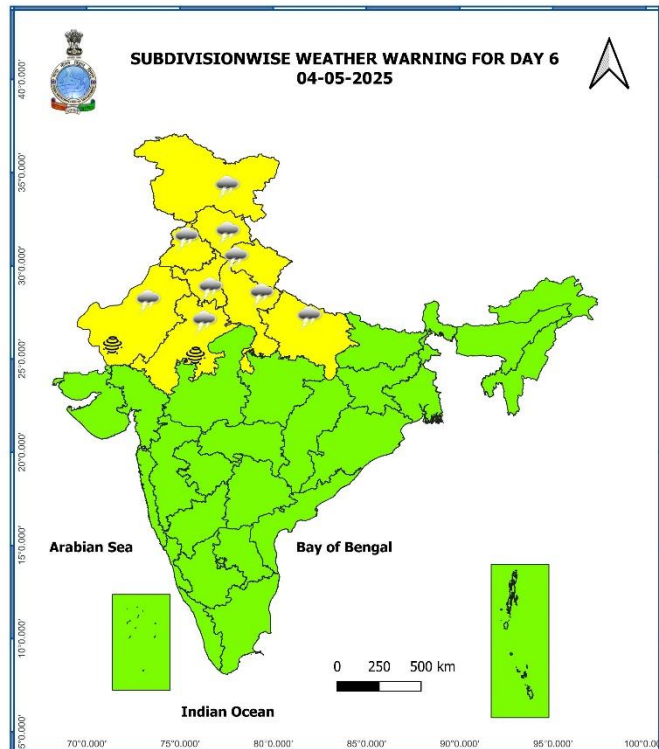
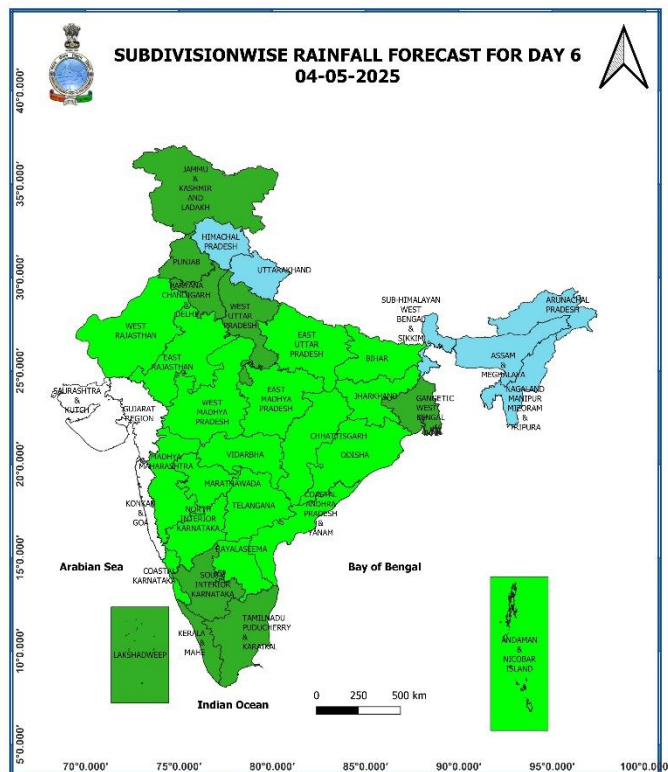
02nd May (Day 4)

- ❖ **Thundersquall with wind speed reaching 50-60kmph** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, East Madhya Pradesh, Chhattisgarh, Bihar, North Interior Karnataka.
- ❖ **Thunderstorms with gusty winds(40-50kmph)** likely at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, South Interior Karnataka.
- ❖ **Thunderstorms with gusty winds(30-40kmph)** likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Gangetic West Bengal, Assam & Meghalaya, Rayalaseema, Coastal Karnataka.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Kerala & Mahe.
- ❖ **Dust Storm** likely at isolated places over Rajasthan.



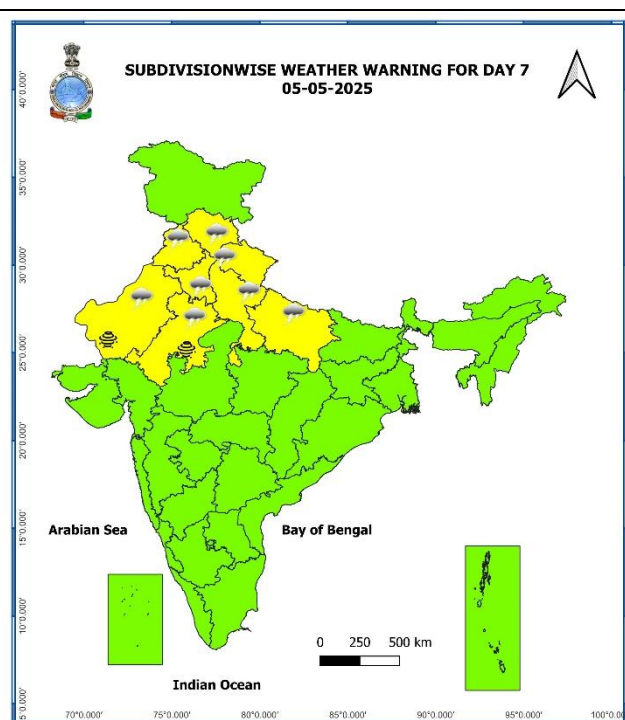
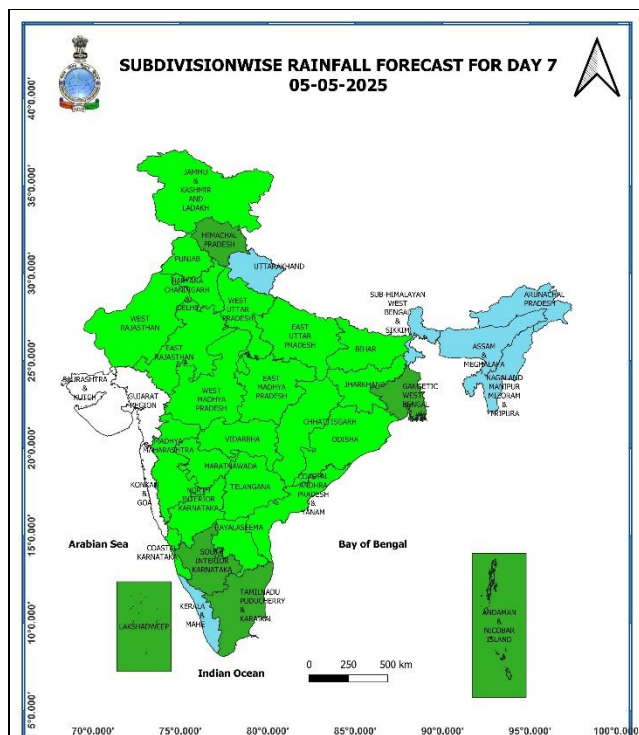
03rd May (Day 5)

- ❖ **Thundersquall with wind speed reaching 50-60kmph** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, East Madhya Pradesh, Chhattisgarh, North Interior Karnataka.
- ❖ **Thunderstorms with gusty winds(40-50kmph)** likely at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Bihar, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and South Interior Karnataka.
- ❖ **Thunderstorms with gusty winds(30-40kmph)** likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, Jharkhand, Odisha, Assam & Meghalaya, Rayalaseema,
- ❖ **Thunderstorm & Lightning** likely at isolated places over Coastal Karnataka.
- ❖ **Dust Storm** likely at isolated places over Rajasthan.



04th May (Day 6)

- ❖ **Thunderstorms with gusty winds(40-50kmph)** likely at isolated places over Uttar Pradesh, Rajasthan.
- ❖ **Thunderstorms with gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi.



05th May (Day 7)

- ❖ **Thunderstorms with gusty winds(40-50kmph)** likely at isolated places over East Uttar Pradesh, Rajasthan.
- ❖ **Thunderstorms with gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh.

Weather Outlook for subsequent 3 days (During 06th May- 08th 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

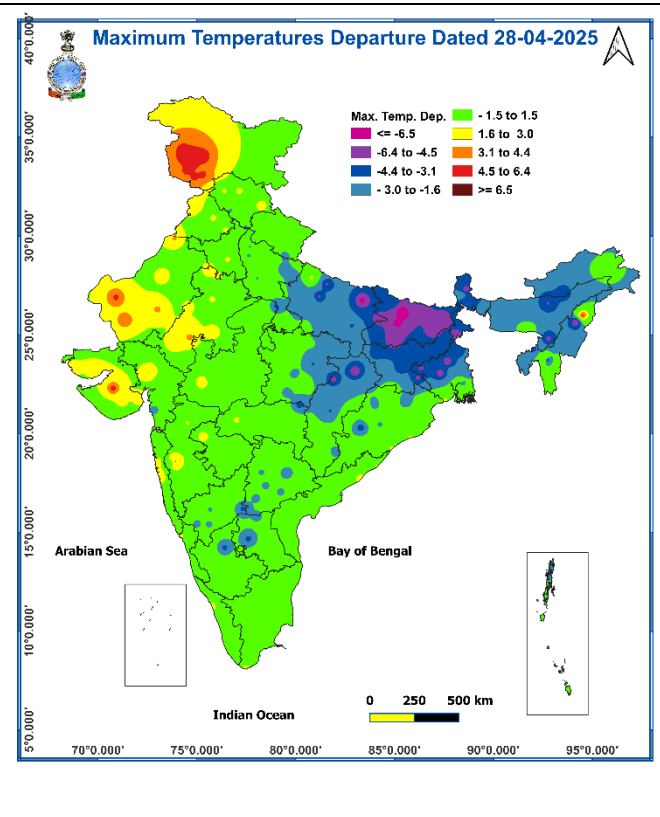
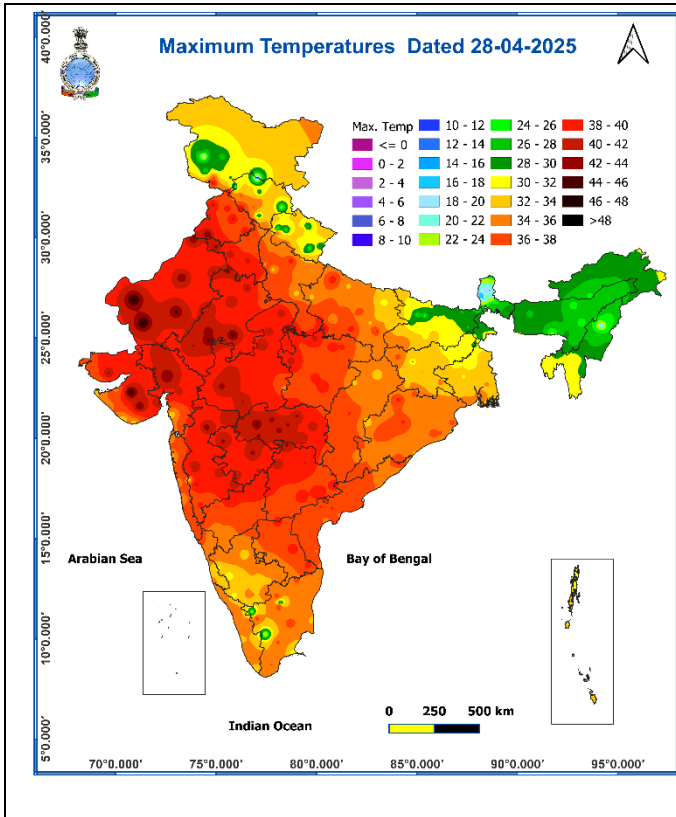


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

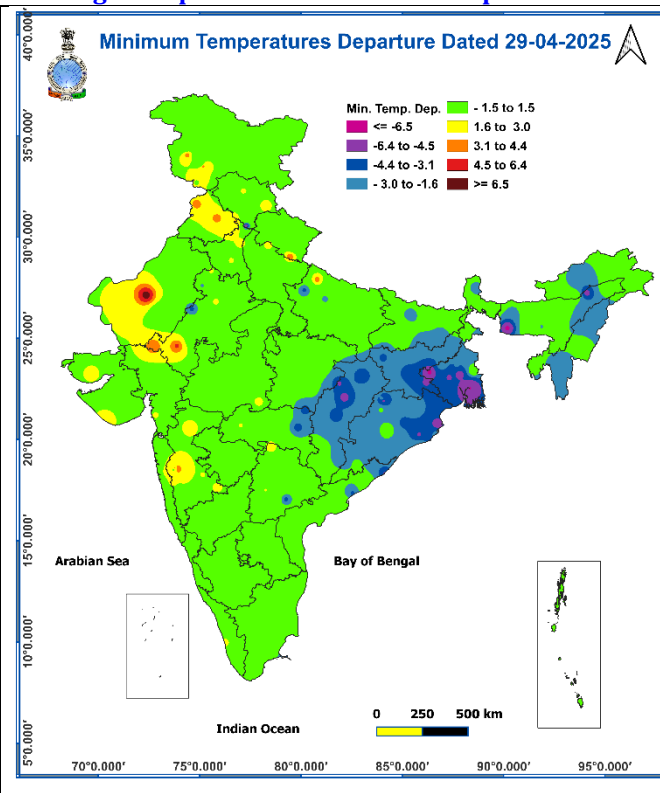
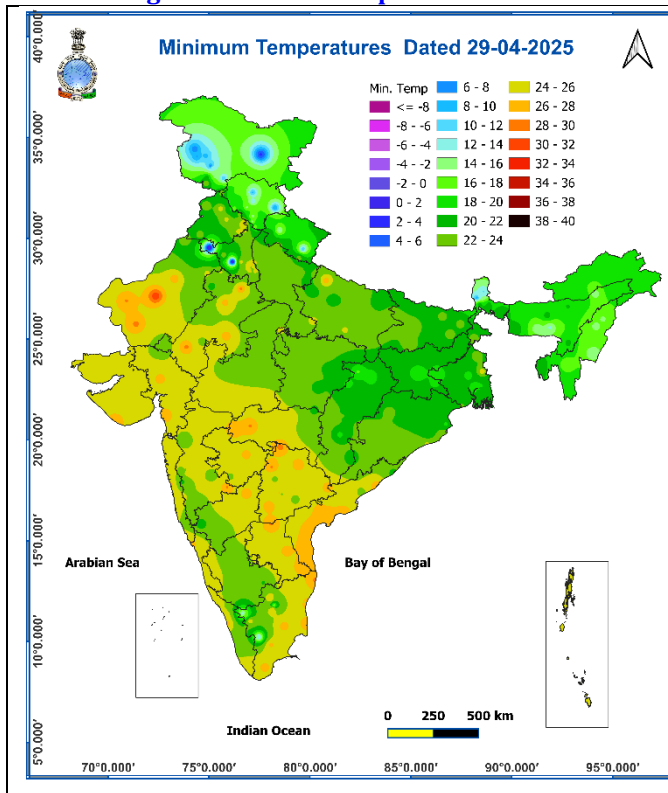
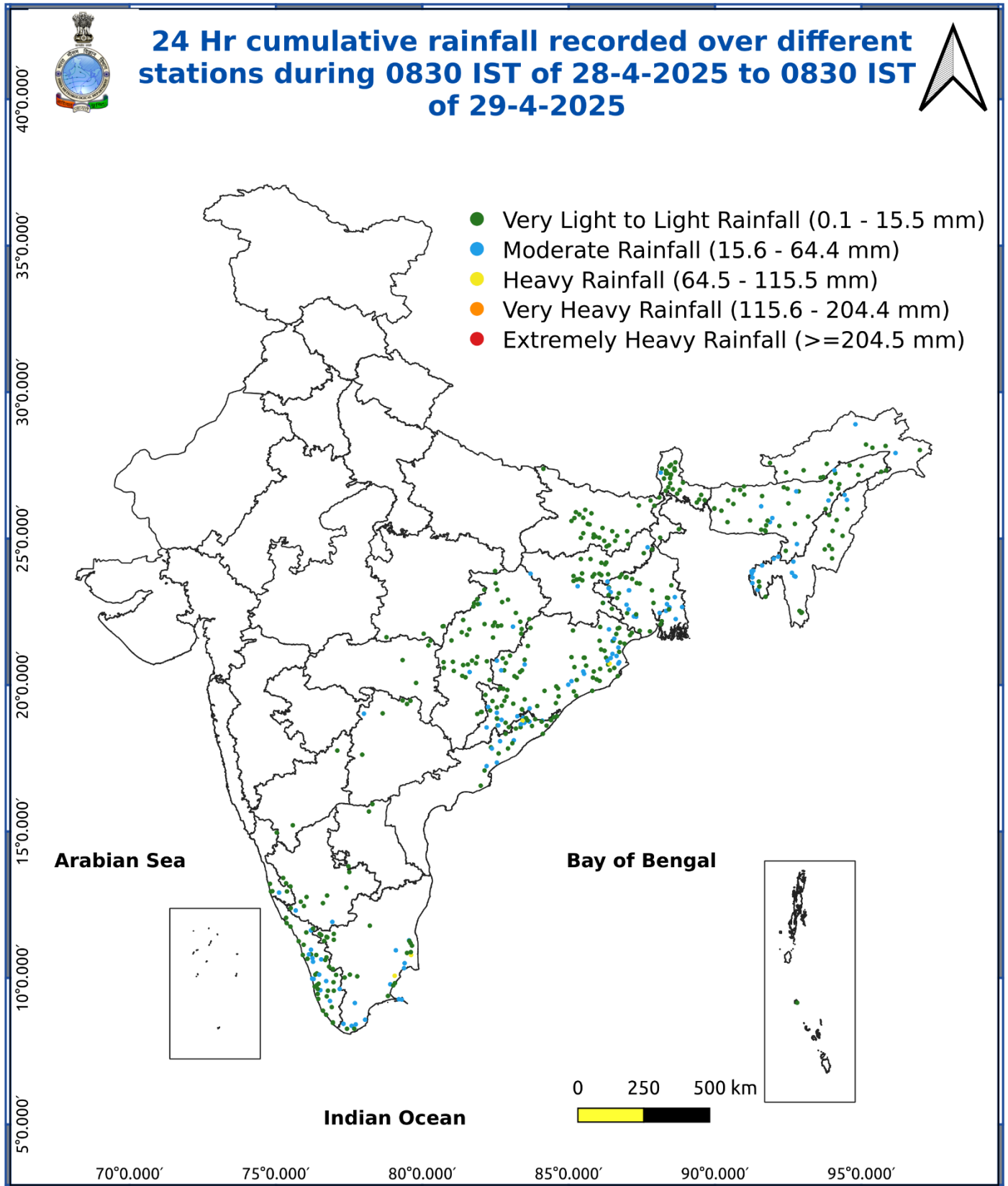


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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

- ✓ **Isolated hailstorm** activity likely over Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha on 29th April.
- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** likely over North Interior Karnataka, India on 01st & 02nd May; Punjab, Haryana Chandigarh & Delhi on 01st May; Rajasthan on 02nd & 03rd May; Jammu-Kashmir during 02nd-04th May; Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha on 29th April and Bihar on 01st & 02nd 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 Jammu-Kashmir, Himachal Pradesh, East Rajasthan, Saurashtra & Kutch on 29th & 30th April; West Rajasthan during 29th April-01st May 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.

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.

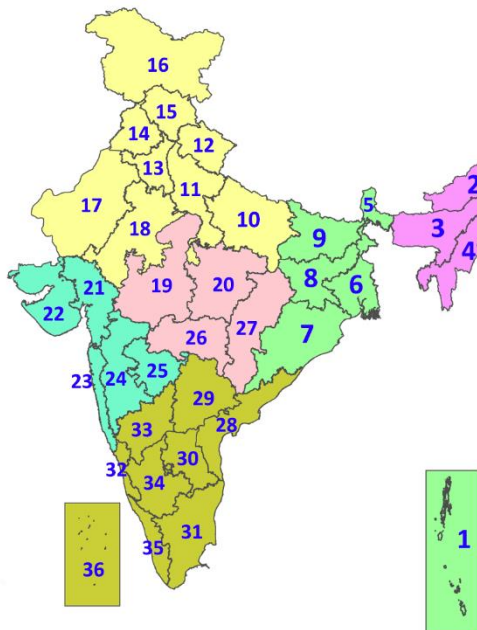
Livestock / Poultry / Fishery

- 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 Rain



Very Heavy Rain



Extremely Heavy Rain



Thunder & Lightning



Hailstorm



Dust Raising Winds



Heavy Snow



Dust Storm



Heat Wave



Warm Night



Hot Day



Hot & Humid



Strong Surface Winds



Cold Wave



Cold Day



Ground Frost

COLOUR CODED WARNING

No Warning (No Action)

Watch (Be Aware)

Alert (Be Prepared To Take Action)

Warning (Take Action)

Probabilistic Forecast

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

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

(Service to the Nation since 1875)

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)