

Friday, May 2, 2025
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Forecast and Warnings:

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 till 03rd May; Madhya Pradesh, Vidarbha, Chhattisgarh till 05th May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over East Madhya Pradesh, Chhattisgarh during 02nd -04th; Vidarbha on 03rd & 04th, Odisha on 02rd & 03rd May.
- ✓ **Isolated hailstorm** activity likely over Sikkim on 03rd; Odisha, East Madhya Pradesh on 02nd & 03rd; Chhattisgarh on 02nd & 03rd May.
- ✓ **Isolated heavy rainfall** over Odisha on 02nd & 03rd May.

Northwest India:

- ✓ **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 40-60 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 02nd May to 06th May.
- ✓ **Isolated hailstorm** very likely over Uttarakhand on 03rd May and **thundersquall** wind speed reaching 50-60 kmph on 03rd 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 02nd May to 06th May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Punjab, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Uttarakhand, Himachal Pradesh, Rajasthan on 02nd May.
- ✓ **Duststorm** very likely at isolated places over Rajasthan during 02nd -05th May.
- ✓ **Isolated heavy rainfall** over Haryana-Chandigarh-Delhi and West Uttar Pradesh on 02nd May.

South peninsular India:

- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal during next 7 days.

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 4 days.
- ✓ **Isolated heavy rainfall** over Arunachal Pradesh, Assam & Meghalaya on 05th May.

Temperature Forecast:

- ❖ Gradual fall likely in maximum temperatures by 3-5°C over Northwest India for subsequent 5 days.
- ❖ No significant change in maximum temperatures likely over Central & West India during next 24 hours and fall by 2-4°C for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over East India during next 3 days and rise 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:

- ❖ **Hot & humid weather** is likely to prevail over Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema on 02nd May.

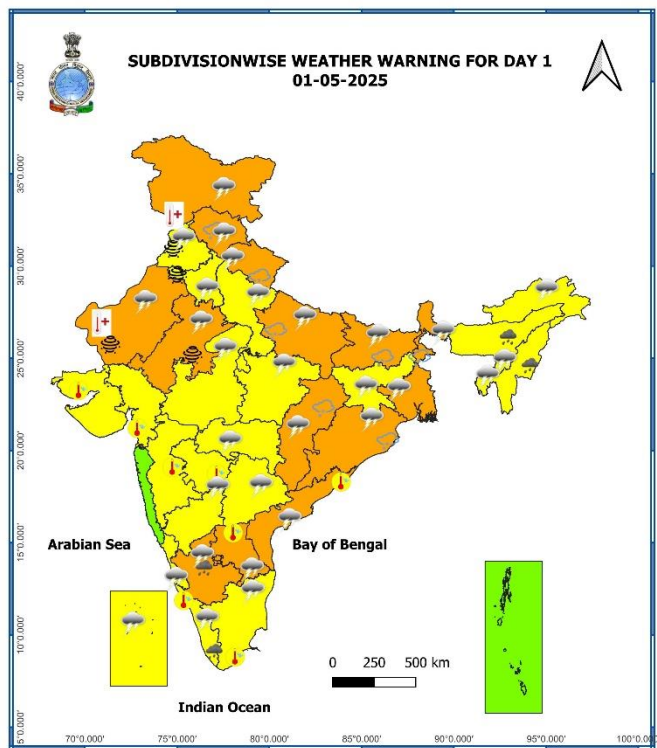
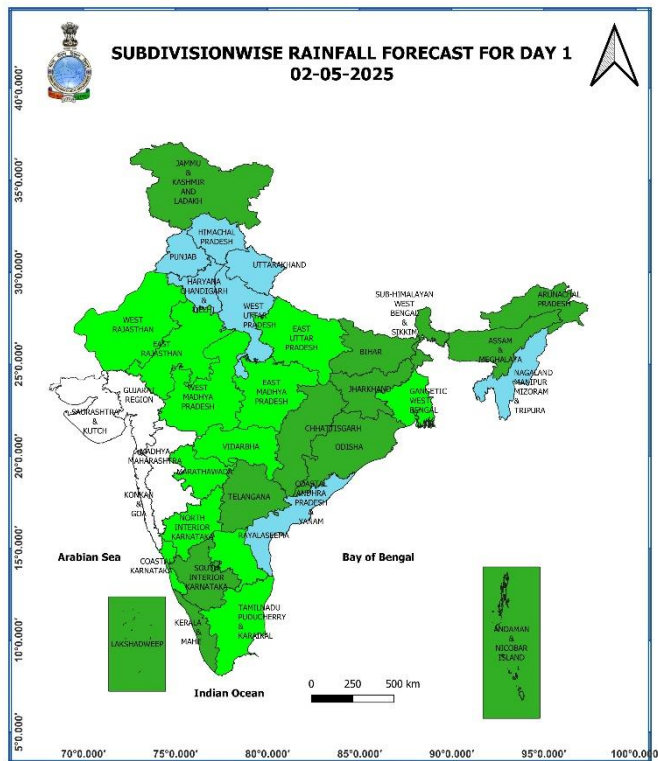
Main Weather Observations:

- ❖ **Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands; at a few places over Arunachal Pradesh, Assam & Meghalaya, Jharkhand; at isolated places over West Bengal & Sikkim, Bihar, East Uttar Pradesh, Chhattisgarh, East Madhya Pradesh, Rajasthan, Vidarbha, Telangana, Odisha, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): Assam & Meghalaya: Shillong -2; Barapani & Guwahati -1 each; Nagaland, Manipur, Mizoram & Tripura: Agartala & Kailashahar -1 each; Andaman & Nicobar Islands: Maya Bandar -4; Hut Bay, Long Islands, Nancowry -1 each; Jharkhand: Daltonganj -4; Ranchi & Jamshedpur -1 each; Gangetic West Bengal: Asansol & Bankura -1 each; Tamil Nadu, Puducherry & Karaikal: Connor & Udhagamandalam -1 each.
- ❖ Yesterday, **Hailstorm** occurred at isolated places over Himachal Pradesh.
- ❖ **Minimum Temperature Departures (as on 01-04-2025):** Minimum temperatures were **markedly above normal (5.1 or above)** at isolated places over Rajasthan, Punjab; **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 Uttar Pradesh; at isolated places over Vidarbha, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Odisha, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at isolated places over Telangana, Chhattisgarh, Jharkhand and normal over rest parts of the country (**Fig. 4**). Yesterday, the **lowest minimum temperature of 16.5°C** was reported at **Daringabadi (Odisha)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 01-05-2025):** Maximum Temperatures were **markedly above normal (5.1°C or more)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan; **above normal (1.6°C to 3.0°C)** at isolated places over East Rajasthan, West Madhya Pradesh, Konkan & Goa, Marathwada, Madhya Maharashtra. These were **markedly below normal (-5.1 or below)** at isolated places over Bihar, Jharkhand, Assam & Meghalaya, East Uttar Pradesh, Uttarakhand; **below normal (-1.6°C to -3.0°C)** at isolated places over Haryana-Chandigarh-Delhi, East Madhya Pradesh, Chhattisgarh, Vidarbha, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh and normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature of 46.7°C** was reported at **Jaisalmer (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

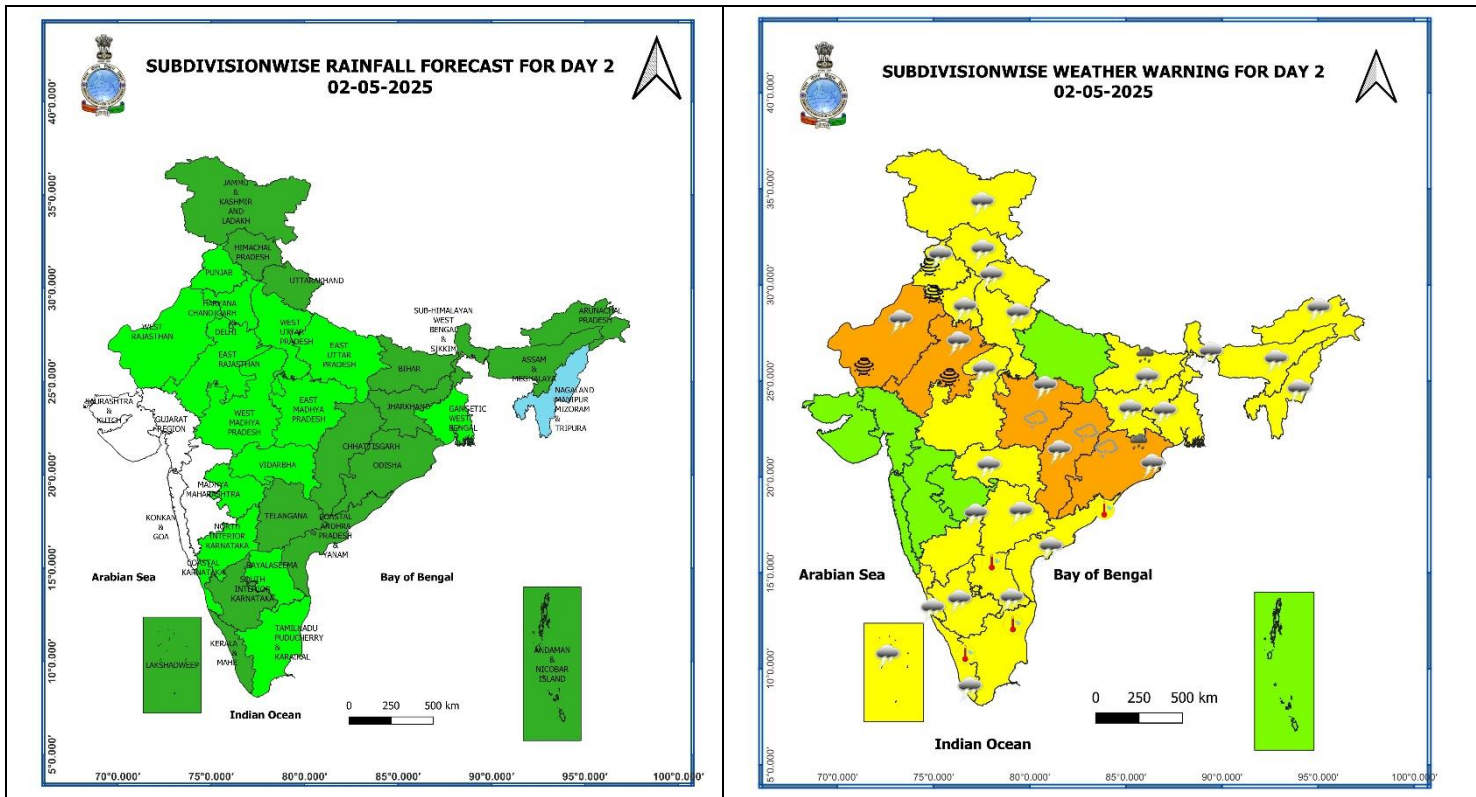
- ❖ A **Western Disturbance** seen as a cyclonic circulation over south Punjab and adjoining north Rajasthan and west Haryana between 5.8 & 7.6 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over central parts of southeast Rajasthan & neighbourhood now seen over northeast Rajasthan and adjoining northwest Madhya Pradesh between 1.5 & 3.1 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over southwest Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The north-south **trough** now runs from west Madhya Pradesh to north Kerala across Madhya Maharashtra, Marathwada, Interior Karnataka at 0.9 km above mean sea level.
- ❖ A **trough** in middle and upper tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 86°E to the north of Lat. 15°N.
- ❖ The upper air **cyclonic circulation** over north Bangladesh & neighbourhood between 3.1 & 7.6 km above mean sea level persists.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 09th May, 2025)



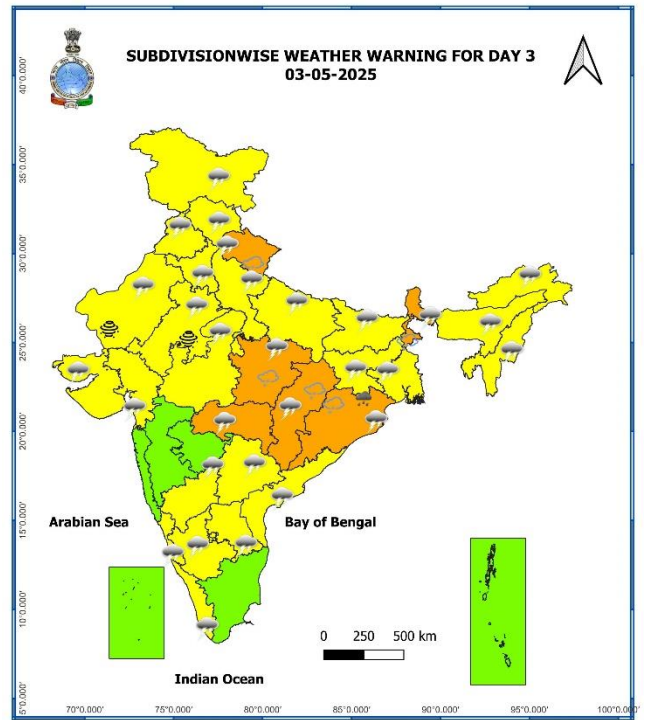
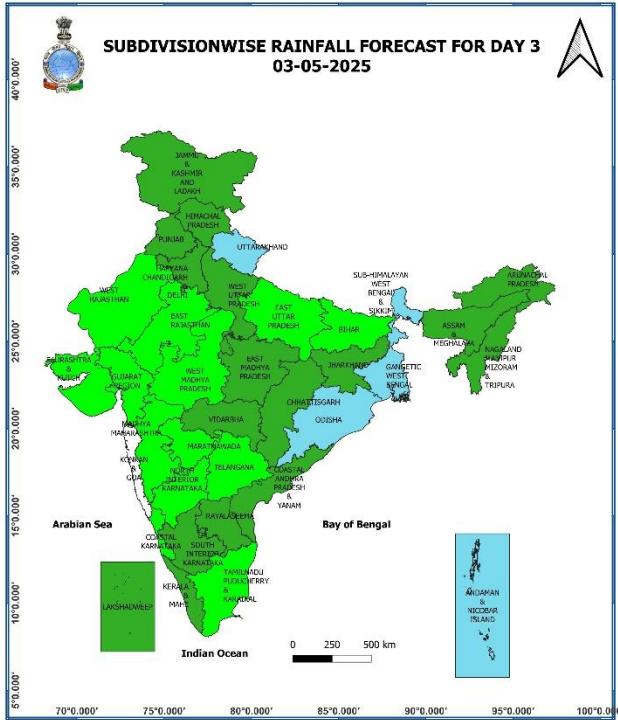
02nd May (Day 1)

- ❖ **Thunderstorms accompanied with Heavy Rainfall** very likely at isolated places over Odisha, Haryana-Chandigarh-Delhi and West Uttar Pradesh.
- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** very likely at isolated places over Rajasthan, Punjab, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Uttarakhand, Himachal Pradesh, East Madhya Pradesh, Chhattisgarh, Odisha and Coastal Andhra Pradesh & Yanam.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** very likely at isolated places over Gangetic West Bengal, Odisha, Jharkhand, West Madhya Pradesh, Vidarbha and Coastal Karnataka, East Uttar Pradesh and South Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** very likely at isolated places over East Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Rayalaseema.
- ❖ **Thunderstorm & Lightning** very likely at isolated places over West Bengal & Sikkim, Arunachal Pradesh, Kerala & Mahe, Lakshadweep, Coastal Karnataka.
- ❖ **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 40-50kmph gusting to 60 kmph)** very likely at isolated places over Rajasthan.
- ❖ **Thunderstorm accompanied Hailstorm** very likely at isolated places over East Madhya Pradesh, Chhattisgarh, Odisha.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** very likely to prevail over along and off south Gujarat coast.



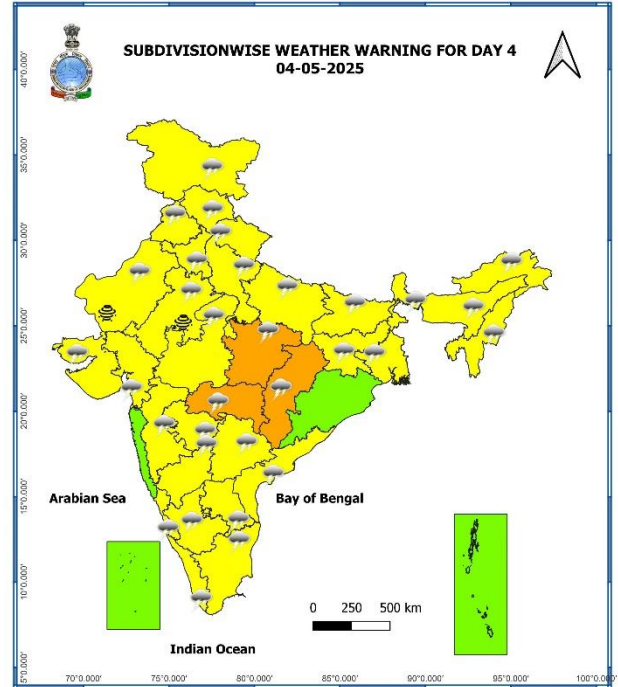
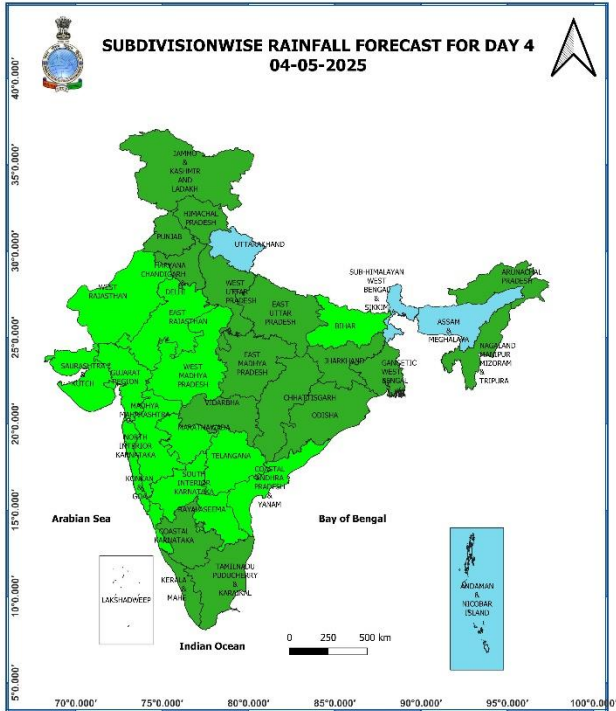
03rd May (Day 2)

- ❖ **Thunderstorms accompanied with Heavy Rainfall** very likely at isolated places over Odisha.
- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** likely at isolated places over Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Jharkhand, Coastal Andhra Pradesh & Yanam, Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over East Uttar Pradesh, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Telangana, Rayalaseema.
- ❖ **Thunderstorm & Lightning** likely at isolated places over Arunachal Pradesh, Kerala & Mahe, Coastal Karnataka.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Rajasthan.
- ❖ **Thunderstorm accompanied with Hailstorm** likely at isolated places over East Madhya Pradesh, Uttarakhand, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** very likely to prevail over some parts of northeast Arabian sea and off north Gujarat coast, over gulf of Mannar and adjoining Comorin area.



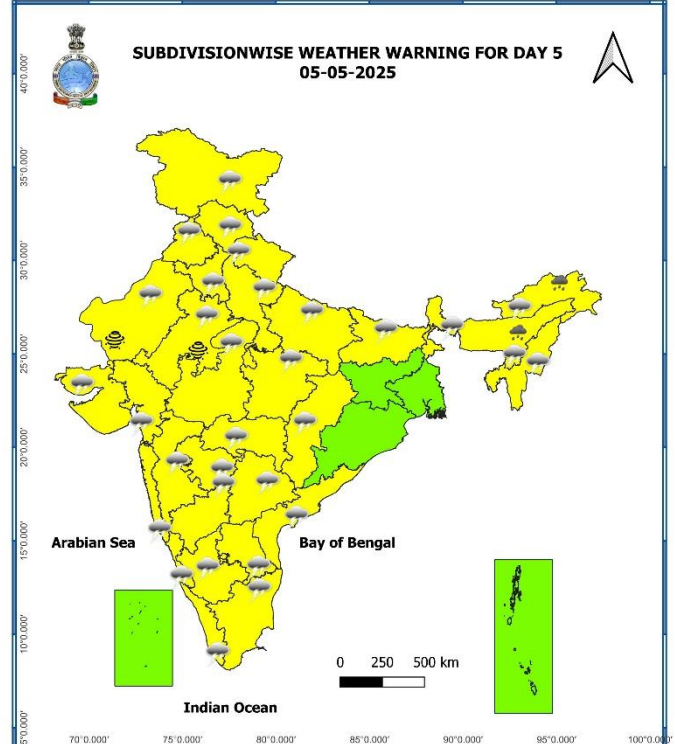
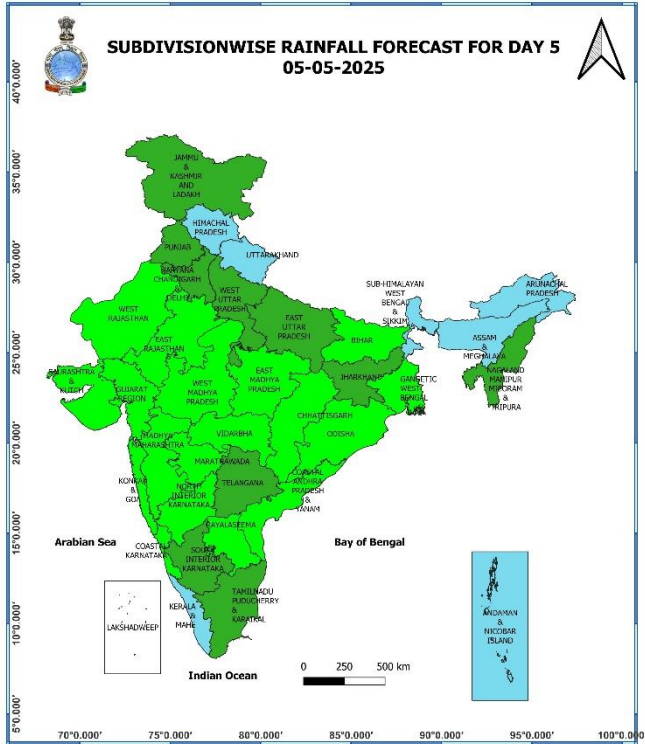
04th May (Day 3)

- ❖ **Thundersquall accompanied with wind speed reaching 50-60 kmph** likely at isolated places over West Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Jharkhand, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Bengal & Sikkim, Bihar, Assam & Meghalaya, Gujarat state, Telangana, Rayalaseema.
- ❖ **Thunderstorm & Lightning** likely at isolated places over East Uttar Pradesh, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka, Madhya Maharashtra, Marathwada, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over central parts of north Arabian sea, over gulf of Mannar & adjoining Comorin area.



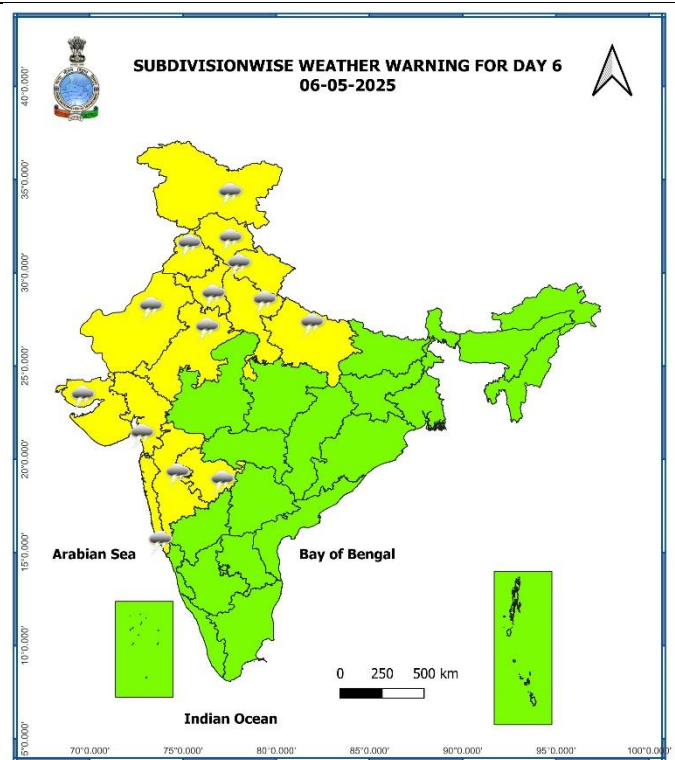
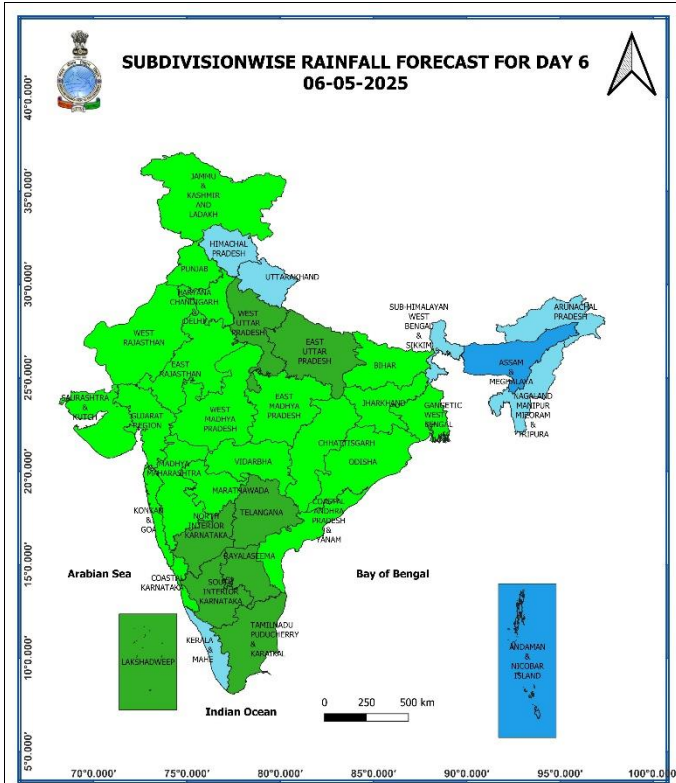
05th May (Day 4)

- ❖ **Thunderstorms accompanied with Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 40-50kmph gusting to 60 kmph)** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Interior Karnataka.
- ❖ **Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Bihar, Assam & Meghalaya, Konkan & Goa, Gujarat state, Telangana, Rayalaseema.
- ❖ **Thunderstorm & Lightning** likely at isolated places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka.
- ❖ **Dust Storm/Thunderstorms accompanied with gusty winds (speed reaching 30-40kmph gusting to 50 kmph)** likely at isolated places over Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over many parts of north Arabian sea.



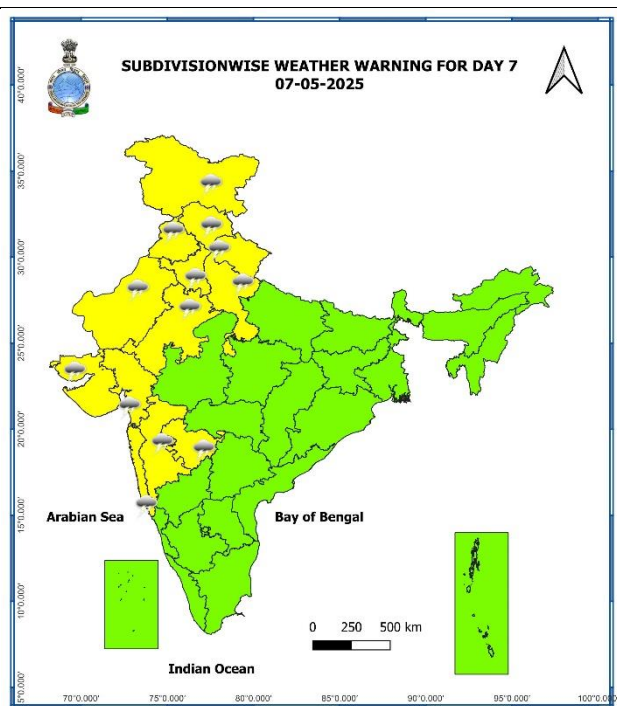
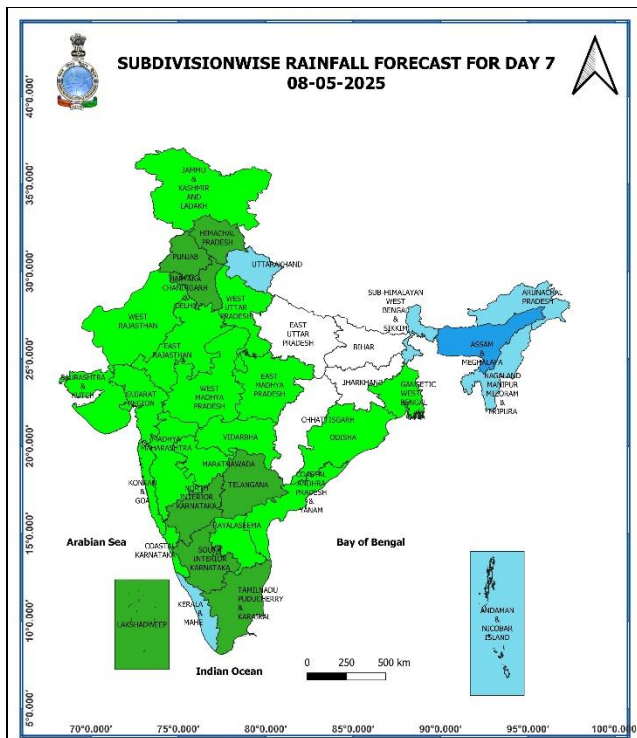
06th May (Day 5)

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



07th May (Day 6)

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



08th May (Day 7)

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

Weather Outlook for subsequent 3 days (During 09th May- 11th 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

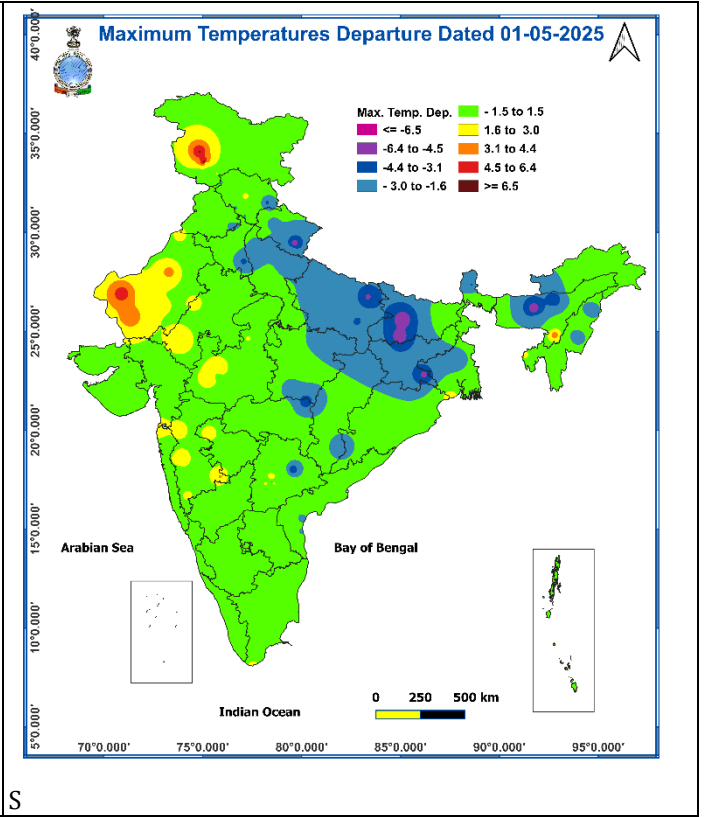
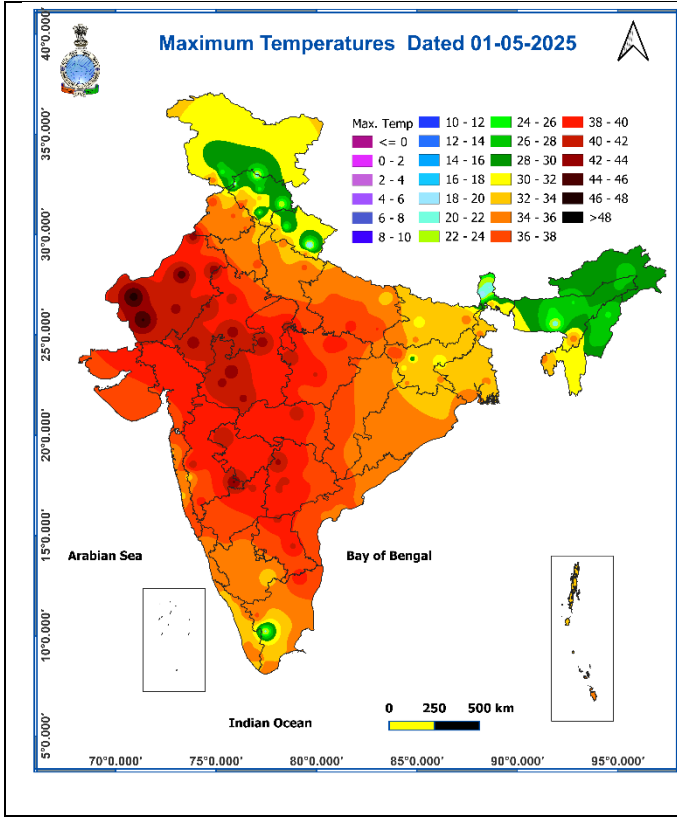


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

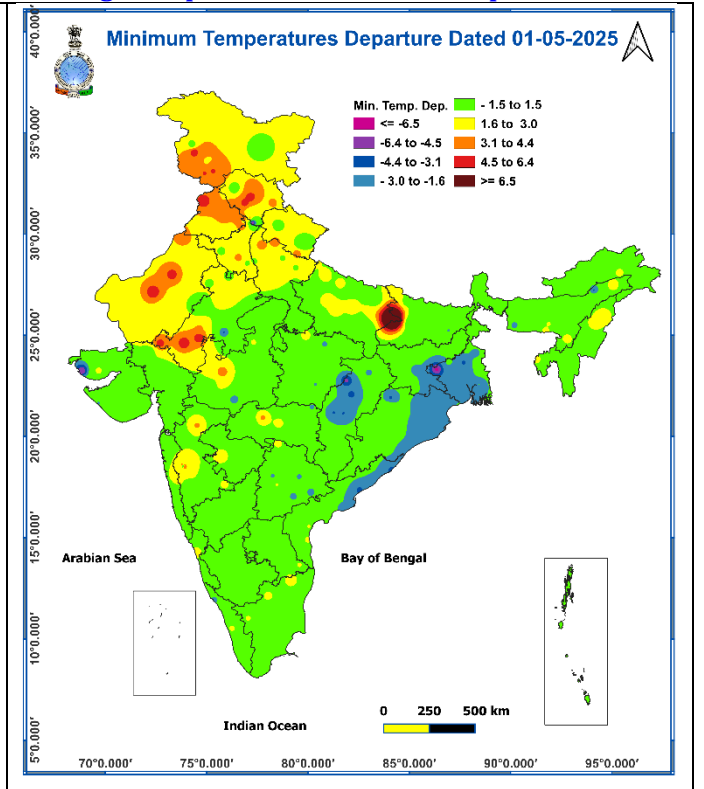
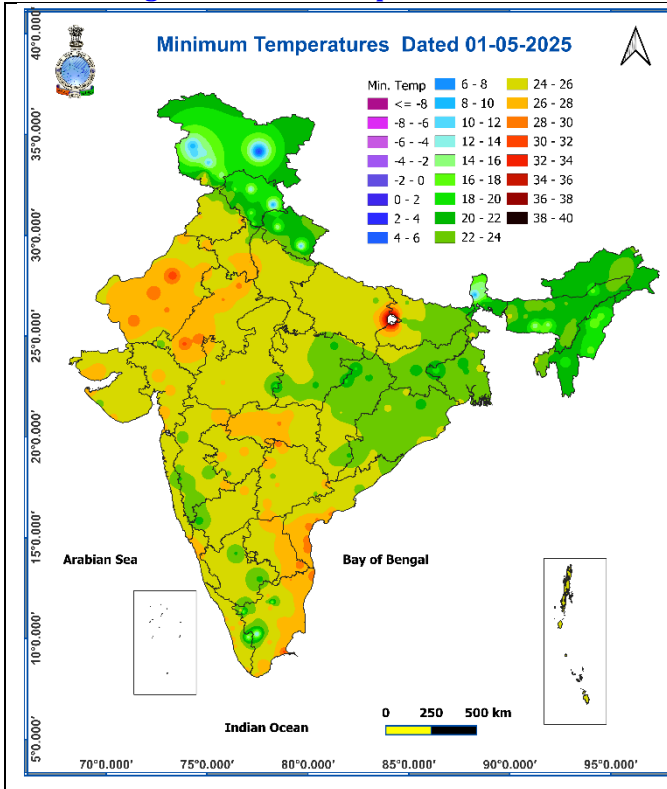
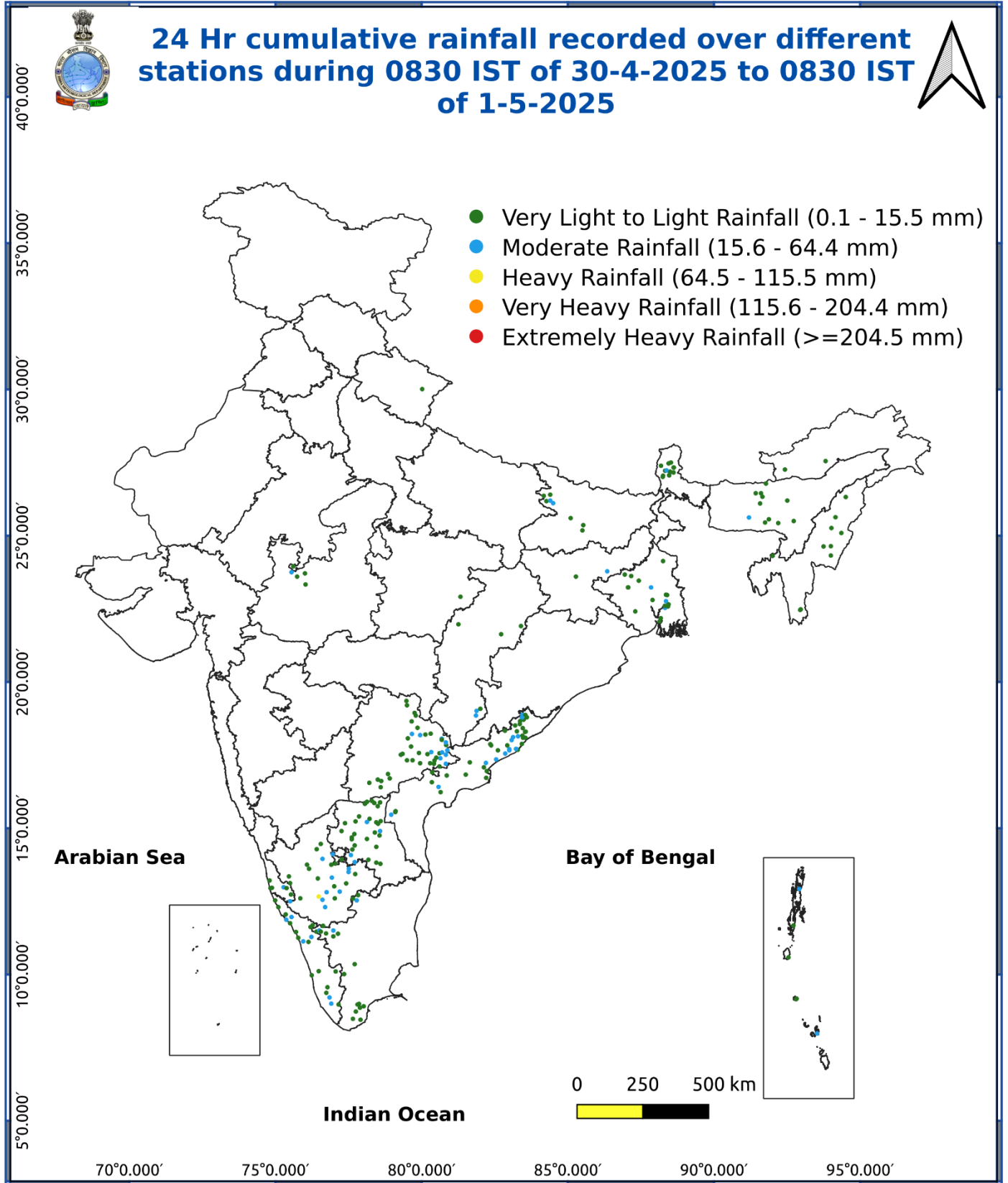


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



* 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 Rajasthan on 02nd; Odisha on 02nd & 03rd; East Madhya Pradesh, Chhattisgarh during 02nd -04th; Vidarbha on 03rd & 04th May.
- ❖ **Isolated hailstorm** activity likely over Sikkim on 03rd; East Madhya Pradesh on 02nd & 03rd; Odisha, Chhattisgarh on 02nd & 03rd 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.

Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heat wave (Based on the IBF and advisories issued by different AMFUs)

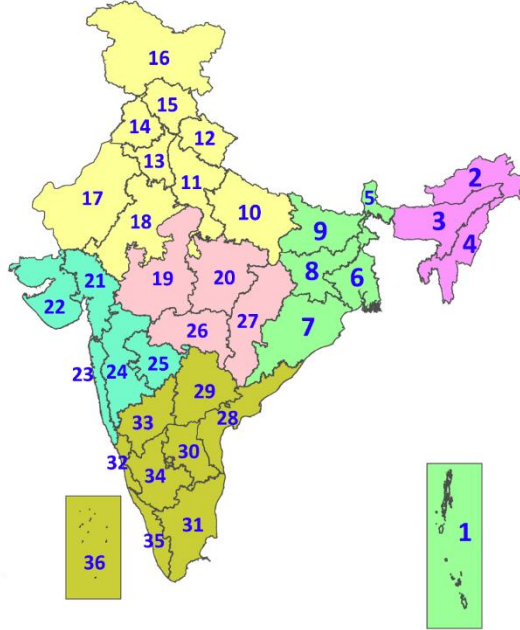
- In **Odisha, Kerala and South Interior Karnataka**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Sub Himalayan West Bengal and Sikkim, Odisha, Bihar, Uttarakhand, East Uttar Pradesh, Chhattisgarh and East Madhya Pradesh**, use hail nets and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- To protect standing crops, vegetables and orchards from the 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)