

Saturday, May 3, 2025
Time of Issue: 1345 hours IST
(MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

- ❖ A Western Disturbance as a cyclonic circulation over north Pakistan & neighbourhood in lower & middle tropospheric levels.
- ❖ An upper air cyclonic circulation lies over northwest Rajasthan and another over West Uttar Pradesh in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over southeast Rajasthan. A north-south trough runs from this cyclonic circulation to south Tamil Nadu and an east-west trough runs from this cyclonic circulation to north Odisha in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over north Bangladesh and another over northeast Assam in lower 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 till 04th May; Madhya Pradesh, Vidarbha, Chhattisgarh till 06th May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over West Madhya Pradesh on 03rd, 05th & 06th; East Madhya Pradesh, Odisha on 03rd & 04th; Gangetic West Bengal, Jharkhand, Chhattisgarh on 03rd; Bihar on 05th May.
- ✓ **Isolated hailstorm** activity likely over Sikkim, Odisha, Chhattisgarh on 03rd; Madhya Pradesh on 03rd; East Madhya Pradesh on 03rd & 04th May.
- ✓ **Isolated heavy rainfall** likely over Odisha on 03rd & 04th 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, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh and isolated to scattered rainfall over Rajasthan during 03rd-09th May.
- ✓ **Isolated hailstorm** very likely over Himachal Pradesh on 03rd & 04th and Uttarakhand during 03rd-06th May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Uttarakhand during 03rd-06th; Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh on 04th & 05th; East Uttar Pradesh on 05th May.
- ✓ **Duststorm** very likely at isolated places over West Rajasthan during 03rd-05th and East Rajasthan on 03rd & 04th May.
- ✓ **Isolated heavy rainfall** likely over southwest Rajasthan on 06th & 07th 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.
- ✓ **Isolated hailstorm** very likely over North Interior Karnataka on 05th & 06th and South Interior Karnataka on 06th & 07th May.
- ✓ **Thundersquall** wind speed reaching 50-60 kmph likely over South Interior Karnataka during 03rd-05th and North Interior Karnataka on 06th & 07th May.
- ✓ **Isolated heavy rainfall** over South Interior Karnataka on 03rd; Kerala & Mahe on 03rd, 06th & 07th; Tamil Nadu on 05th & 06th 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 7 days.
- ✓ **Isolated heavy rainfall** over Assam & Meghalaya and Arunachal Pradesh during 05th-08th May.
- ✓ **Thundersquall** wind speed reaching 50-60 kmph likely over Assam & Meghalaya today.

West India:

- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Gujarat, Konkan & Goa, Madhya Maharashtra and Marathawada during 03rd-08th May.
- ✓ **Isolated hailstorm** very likely over Gujarat state on 05th & 06th and Madhya Maharashtra & Marathawada on 07th May.
- ✓ **Thundersquall** wind speed reaching 50-60 kmph likely over Gujarat state on 06th & 07th and Madhya Maharashtra & Marathawada on 07th May.
- ✓ **Isolated heavy rainfall** likely over Gujarat state on 07th & 08th May.

Temperature Forecast:

- ❖ No significant change in maximum temperatures likely over Northwest India during next 3 days and rise by 2-4°C thereafter for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over West India during next 24 hours; fall by 2-4°C thereafter for subsequent 4 days and no significant change for subsequent 2 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 on 03rd May.

*** 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

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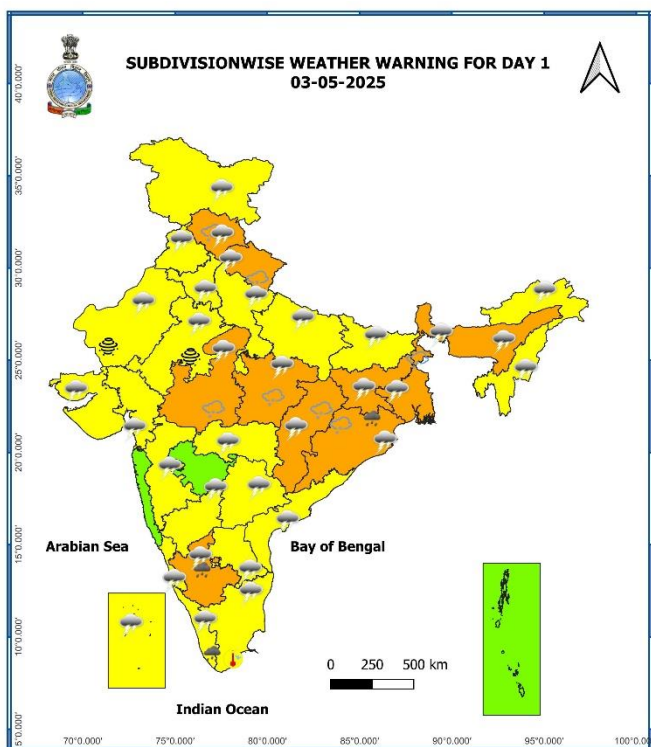
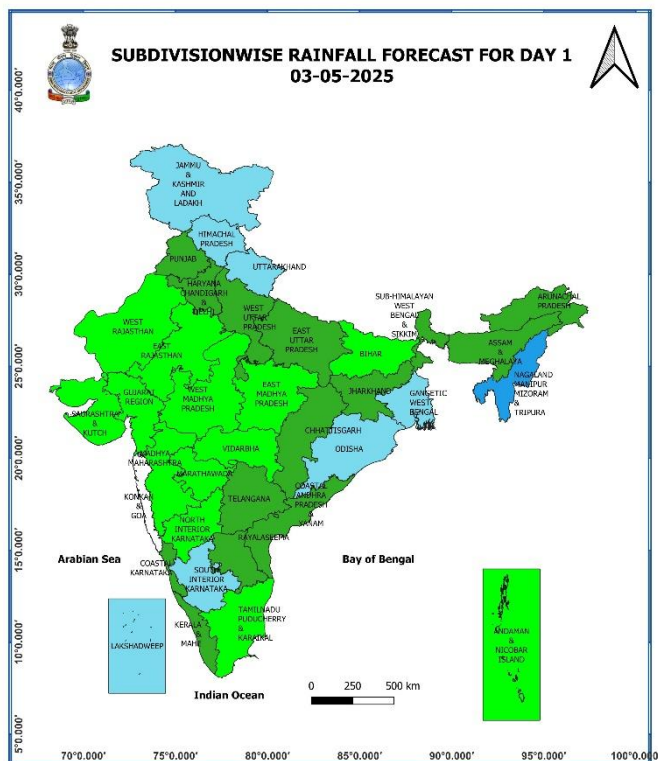
Main Weather Observations:

- ❖ **Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Light/moderate Rainfall with thunderstorm & lightning** observed at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe; at many places over West Uttar Pradesh, Uttarakhand, Rayalaseema, South Interior Karnataka; at a few places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Himachal Pradesh, Uttarakhand, Lakshadweep, Coastal Karnataka; at isolated places over Punjab, Haryana Chandigarh & Delhi, Rajasthan, East Uttar Pradesh, Assam & Meghalaya, Jharkhand, Madhya Pradesh, Chhattisgarh, Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka.
- ❖ **Significant amount of rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): **Nagaland, Manipur, Mizoram & Tripura:** Champai AWS (dist Champhai) 7; Lengpui (dist Aizawl) 5; **Uttarakhand:** Joshimath (dist Chamoli) 9; Haripur (dist Dehradun) 6; **Tamil Nadu:** Kuzhithurai (dist Kanyakumari), Vembakottai (dist Virudhunagar) 5 Each; **North Interior Karnataka:** Hirekerur (dist Haveri) 5; **South Interior Karnataka:** Honnali (dist Davangere) 9; T G Halli HMS (dist Bengaluru Urban), Davanagere (dist Davangere), Chikkamagaluru PTO (dist Chikkamagaluru) 5 Each; **Kerala & Mahe:** Vellayani AWS (dist Thiruvananthapuram) 10; Trivandrum AP (dist Thiruvananthapuram) 9; Airport Chakka ARG (dist Thiruvananthapuram) 7; Kurudamannil (dist Pathanamthitta), Punalur (dist Kollam), Thiruvananthapuram (dist Thiruvananthapuram) 6 Each; Vaikkom AWS (dist Kottayam) 5.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 70-100 kmph prevailed at some places over Telangana; with speed 40-70 kmph prevailed at isolated places over Tamilnadu Puducherry & Karaikal, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Madhya Pradesh, Chhattisgarh, Punjab, Haryana Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh.
- ❖ **Hailstorm** occurred at isolated places over East Madhya Pradesh, Telangana.
- ❖ **Heavy rainfall** recorded at isolated places over Uttarakhand, Interior Karnataka, Kerala.
- ❖ **Minimum Temperature Departures (as on 03-05-2025):** Minimum temperatures are **markedly above normal (5.1 or above)** at isolated places over East Rajasthan; **above normal (1.6°C to 3.0°C)** at a few places over West Rajasthan; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Gujarat state, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Uttar Pradesh, Bihar. These are **below normal (-1.6°C to -3.0°C)** at isolated places over Haryana-Chandigarh-Delhi, Jharkhand, Arunachal Pradesh, Assam, Mizoram, Rayalaseema, Telangana, Interior Karnataka, Kerala & Mahe and normal over rest parts of the country (**Fig. 4**). Today, the **lowest minimum temperature** of 19.0°C is reported at **Karnal (Haryana)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 02-05-2025):** Maximum Temperatures were **above normal (1.6°C to 3.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, North Interior Karnataka, Assam & Meghalaya, Nagaland. These were **markedly below normal (-5.1 or below)** at most places over Haryana-Chandigarh-Delhi, West Uttar Pradesh, Uttarakhand, Punjab; at many places over Himachal Pradesh; at a few places over Rajasthan, East Uttar Pradesh, West Madhya Pradesh; at isolated places over Jharkhand, Odisha; **appreciably below normal (-3.1°C to -5.0°C)** at many places over few places over East Madhya Pradesh; at isolated places over Chhattisgarh, Gangetic West Bengal, Bihar; **below normal (-1.6°C to -3.0°C)** at isolated places over Rayalaseema, Coastal Andhra Pradesh & Yanam and normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature** of 44.9°C was reported at **Akola (Vidarbha)** over the country.

Meteorological Analysis (Based on 0830 hours IST)

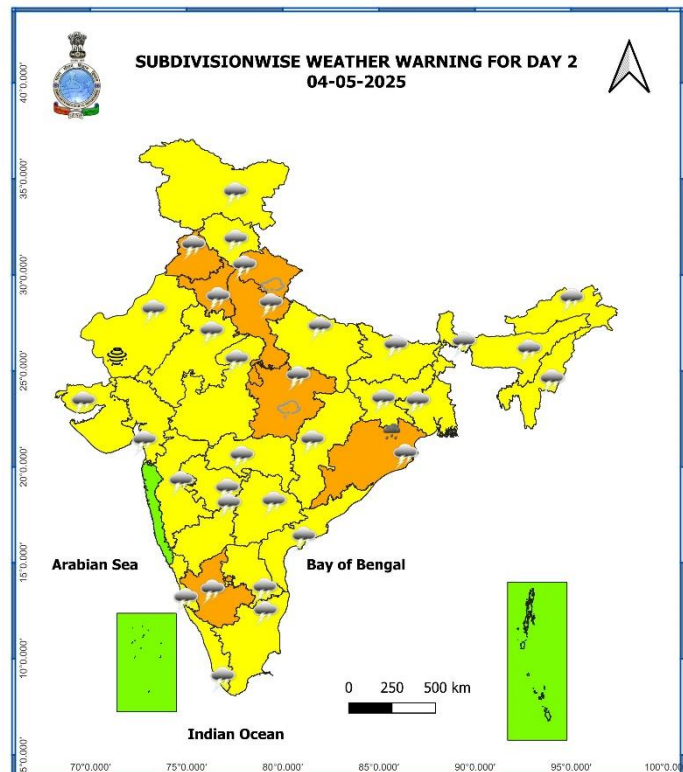
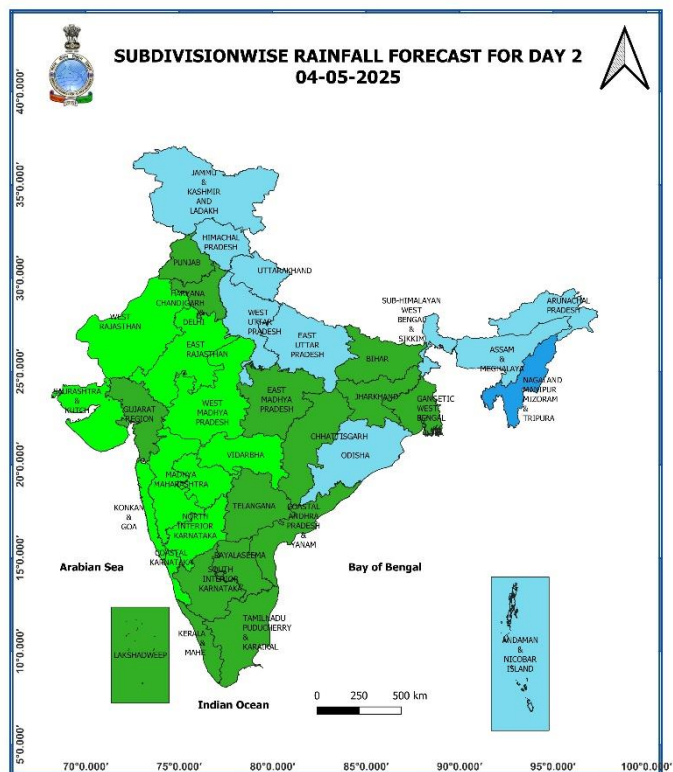
- ❖ A fresh **Western Disturbance** as a cyclonic circulation lies over north Pakistan & neighbourhood between 3.1 & 7.6 km above mean sea level.
- ❖ An upper air **cyclonic circulation** lies over Northwest Rajasthan & neighbourhood at 1.5 km above mean sea level.
- ❖ An upper air **cyclonic circulation** lies over West Uttar Pradesh & neighbourhood at 1.5 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over southwest Rajasthan now lies over southeast Rajasthan & neighbourhood at 0.9 km above mean sea level.
- ❖ The north-south **trough** now runs from the above cyclonic circulation over southeast Rajasthan & neighbourhood to south Tamil Nadu across Gujarat, Maharashtra, Interior Karnataka at 0.9 km above mean sea level.
- ❖ The east-west **trough** now runs from the above cyclonic circulation southeast Rajasthan & neighbourhood to north Odisha across Madhya Pradesh, Chhattisgarh, Jharkhand and extends up to 1.5km above mean sea level.
- ❖ An upper air **cyclonic circulation** lies over Northeast Assam & neighbourhood at 1.5 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over north Bangladesh & neighbourhood persists and now extends upto 1.5 km above mean sea level.
- ❖ The **trough** in upper tropospheric westerlies with its axis at 7.6 km above mean sea level roughly along Long. 90°E to the north of Lat. 22°N has moved away eastwards.
- ❖ The **Western Disturbance** as a cyclonic circulation over south Punjab & adjoining north Rajasthan & west Haryana between 5.8 & 7.6 km above mean sea level has moved away east-northeastwards.
- ❖ The upper air **cyclonic circulation** over northeast Rajasthan & adjoining northwest Madhya Pradesh between 1.5 & 3.1 km above mean sea level has become less marked.

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



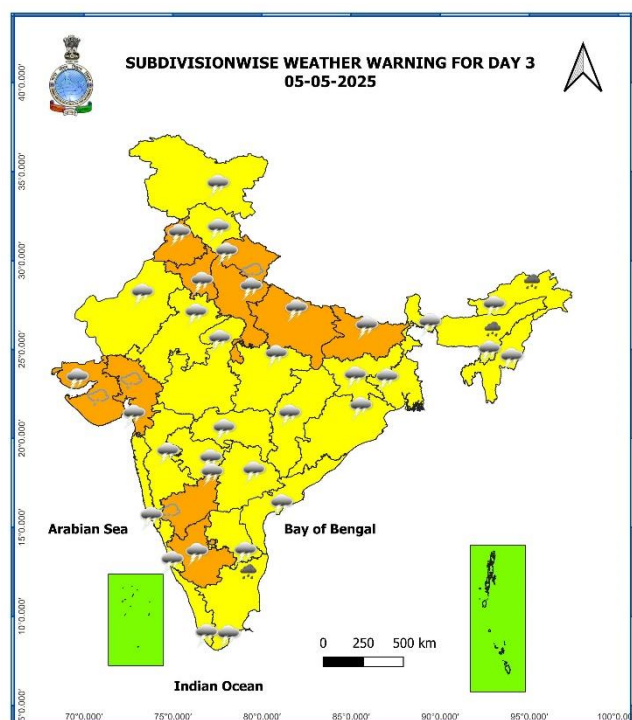
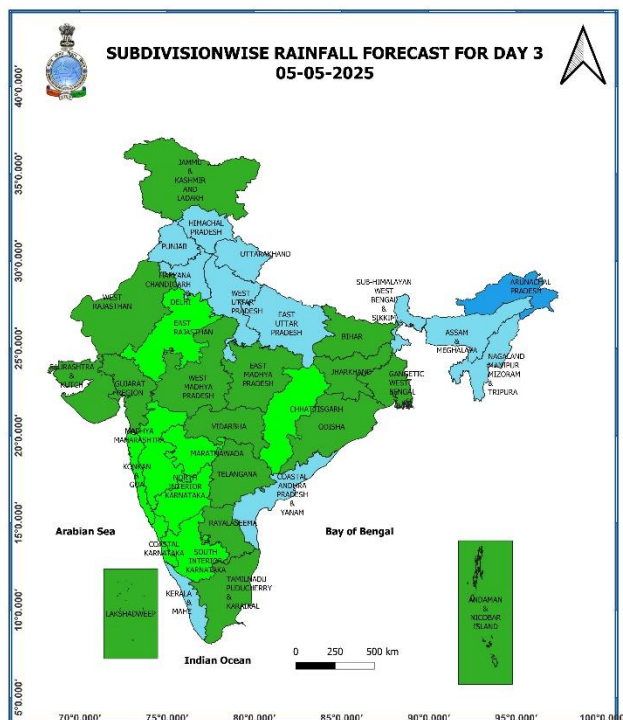
03rd May (Day 1)

- ❖ **Heavy Rain** very likely at isolated places over Kerala and Mahe, Odisha and South Interior Karnataka.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Assam & Meghalaya, Chhattisgarh, Madhya Pradesh, Gangetic West Bengal, Jharkhand, Odisha, South Interior Karnataka and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu and Kashmir and Ladakh, Kerala and Mahe, North Interior Karnataka, Punjab, Rajasthan, Sub Himalayan West Bengal & Sikkim, Tamilnadu & Puducherry, Telangana, Uttar Pradesh, Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Bihar, Costal Karnataka, Gujarat, Madhya Maharashtra and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh and Lakshadweep.
- ❖ **Hailstorm** very likely at isolated places over Chhattisgarh, East Madhya Pradesh, Himachal Pradesh, Odisha, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
- ❖ **Hot and Humid** very likely at isolated places over Tamilnadu & Puducherry.
- ❖ **Dust Storm** very 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 northeast Arabian sea, along and off north Gujarat coast, over gulf of Mannar and adjoining Comorin area. Fishermen are advised not to venture into these areas.



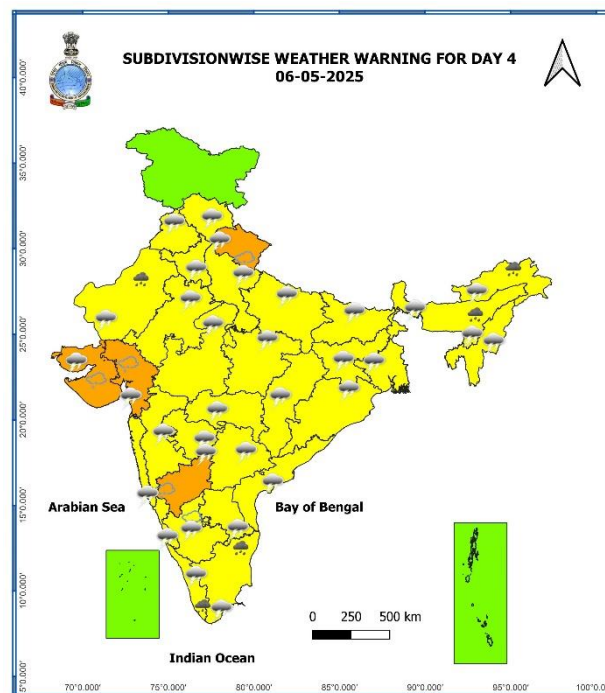
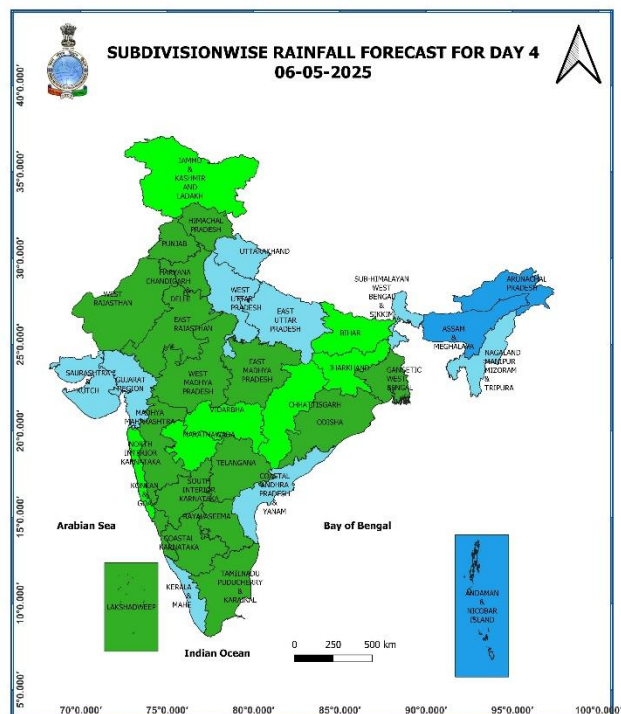
04th May (Day 2)

- ❖ **Heavy Rain** very likely at isolated places over Odisha.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over East Madhya Pradesh, Haryana, Chandigarh & Delhi, Odisha, Punjab, South Interior Karnataka, Uttarakhand and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh, Bihar, Chhattisgarh, East Uttar Pradesh, Gangetic West Bengal, Gujarat, Himachal Pradesh, Jammu and Kashmir and Ladakh, Jharkhand, North Interior Karnataka, Rajasthan, Telangana, Vidarbha and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Coastal Karnataka, Kerala and Mahe, Madhya Maharashtra, Marathwada, Nagaland, Manipur, Mizoram and Tripura, Sub Himalayan West Bengal & Sikkim and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh.
- ❖ **Hailstorm** very likely at isolated places over East Madhya Pradesh and Uttarakhand.
- ❖ **Dust Storm** very likely at isolated places over West Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over many parts of northeast Arabian sea & adjoining northwest Arabian sea, along and off north Gujarat coast, over gulf of Mannar and adjoining Comorin area. Fishermen are advised not to venture into these areas.



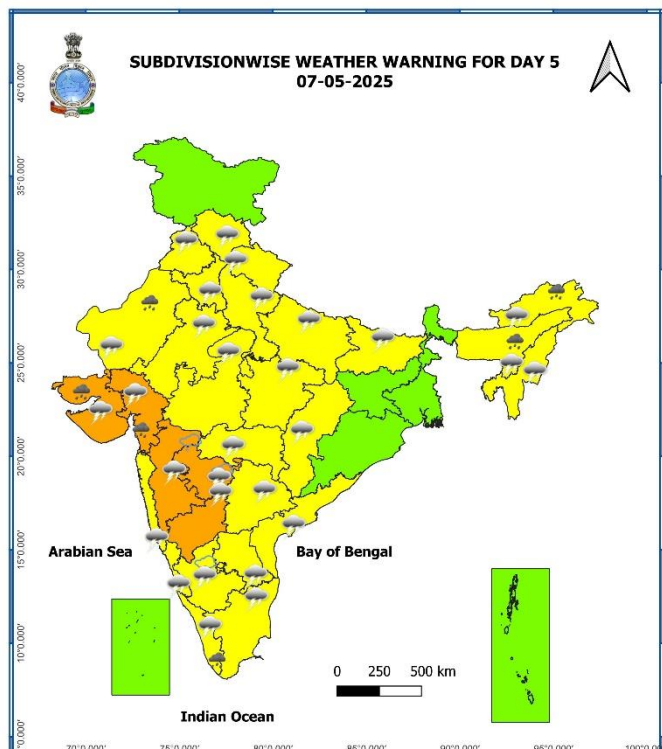
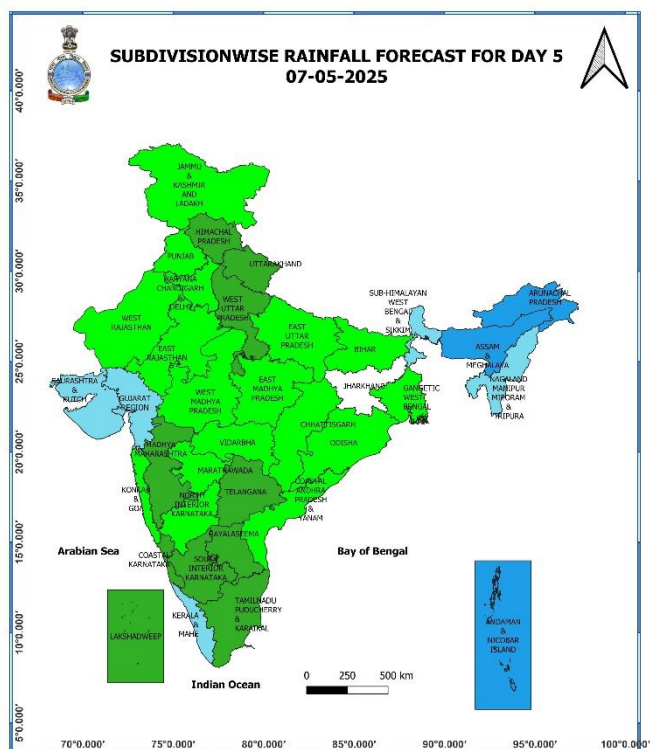
05th May (Day 3)

- ❖ **Heavy Rain** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Tamilnadu & Puducherry.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar, Punjab, South Interior Karnataka, Uttar Pradesh, Uttarakhand and West Madhya Pradesh and likely at isolated places over Haryana, Chandigarh & Delhi.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Chhattisgarh, Coastal Andhra Pradesh, East Madhya Pradesh, Gujarat, Himachal Pradesh, Jammu and Kashmir and Ladakh, North Interior Karnataka, Odisha, Rajasthan, Sub Himalayan West Bengal & Sikkim and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Costal Karnataka, Gangetic West Bengal, Jharkhand, Kerala and Mahe, Konkan & Goa, Maharashtra, Nagaland, Manipur, Mizoram and Tripura and Rayalaseema.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh and Tamilnadu & Puducherry.
- ❖ **Hailstorm** very likely at isolated places over Gujarat, North Interior Karnataka and Uttarakhand.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over central parts of north Arabian sea. Fishermen are advised not to venture into these areas.



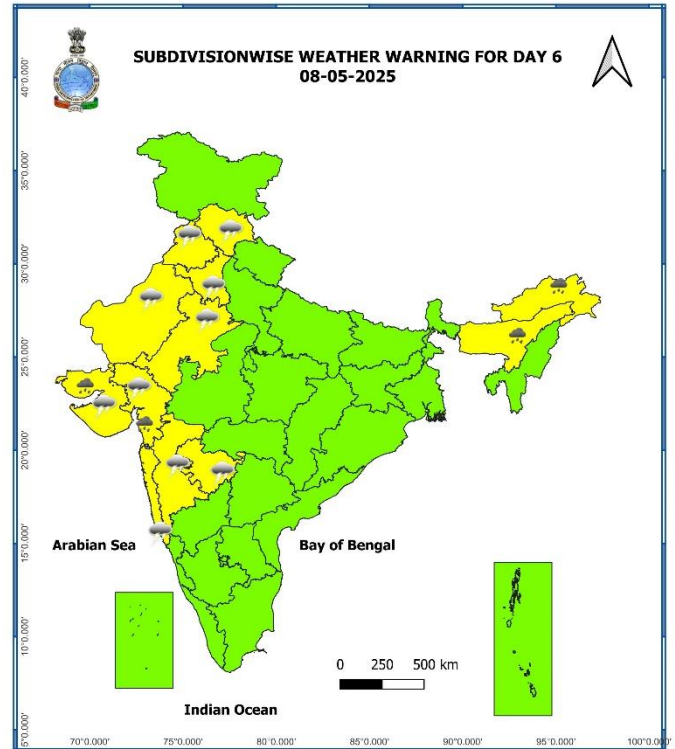
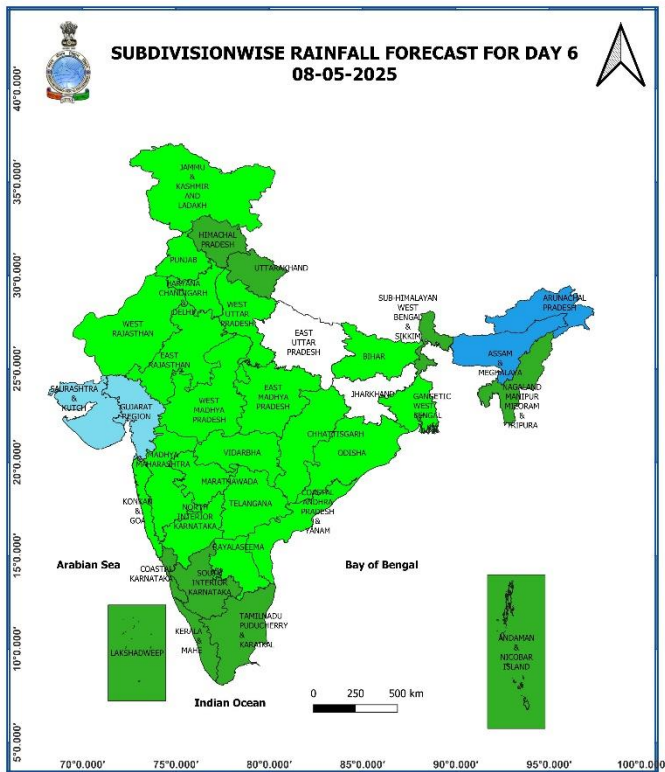
06th May (Day 4)

- ❖ **Heavy Rain** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Kerala and Mahe, Tamilnadu & Puducherry and West Rajasthan
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Gujarat, North Interior Karnataka, Uttarakhand and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya, Chhattisgarh, Coastal Andhra Pradesh, East Madhya Pradesh, Haryana, Chandigarh & Delhi, Kerala and Mahe, Konkan & Goa, Madhya Maharashtra, Marathwada, Odisha, Punjab, Rajasthan and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Himachal Pradesh, Jharkhand, Nagaland, Manipur, Mizoram and Tripura, Rayalaseema, South Interior Karnataka, Uttar Pradesh, Vidarbha and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Coastal Karnataka and Tamilnadu & Puducherry.
- ❖ **Hailstorm** likely at isolated places over Gujarat, Interior Karnataka and Uttarakhand.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over many parts of northwest Arabian sea. Fishermen are advised not to venture into these areas.



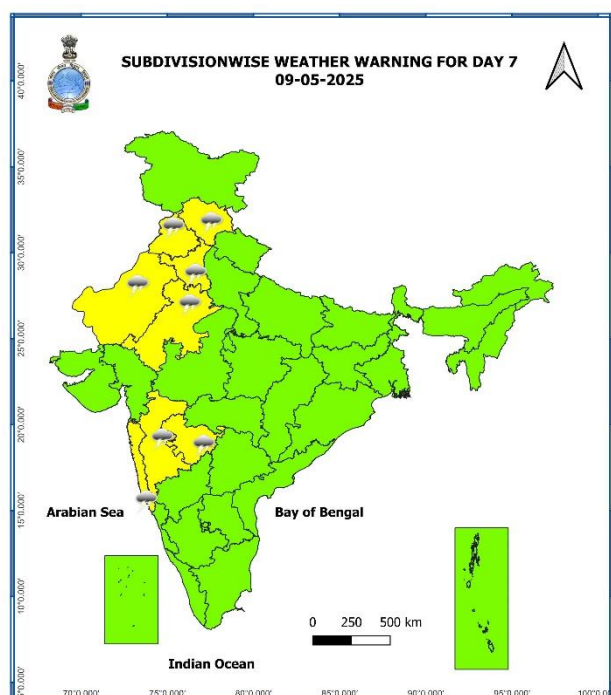
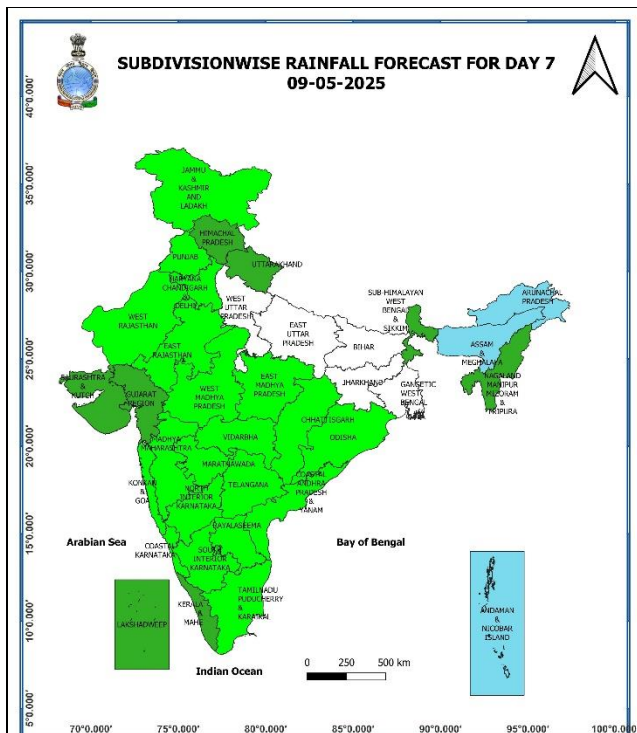
07th May (Day 5)

- ❖ **Heavy Rain** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Gujarat, Kerala and Mahe and West Rajasthan
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Gujarat, Madhya Maharashtra, Marathwada and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya, Chhattisgarh, Kerala and Mahe, Konkan & Goa, Madhya Pradesh, Rajasthan and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andhra Pradesh, Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Punjab, South Interior Karnataka, Uttar Pradesh, Uttarakhand and Vidarbha.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Coastal Karnataka and Tamilnadu & Puducherry
- ❖ **Hailstorm** likely at isolated places over Madhya Maharashtra, Marathwada and South Interior Karnataka.
- ❖ **Dust Storm** very likely at isolated places over Rajasthan.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail over some parts of northwest Arabian sea, off Oman coast. Fishermen are advised not to venture into these areas.



08th May (Day 6)

- ❖ **Heavy Rain** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Gujarat.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Gujarat, Marathwada and Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Konkan & Goa, Madhya Maharashtra and Punjab.



09th May (Day 7)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Marathwada and Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Konkan & Goa, Madhya Maharashtra and Punjab.

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

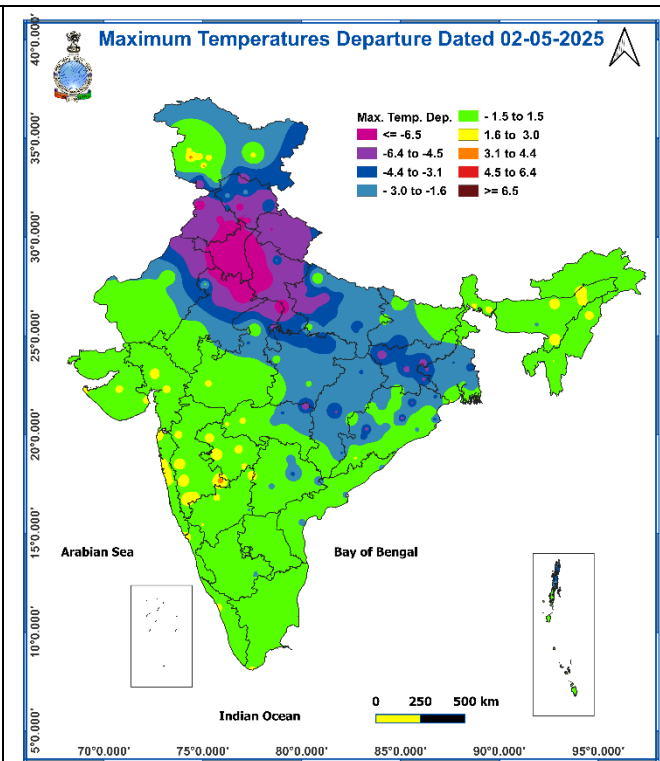
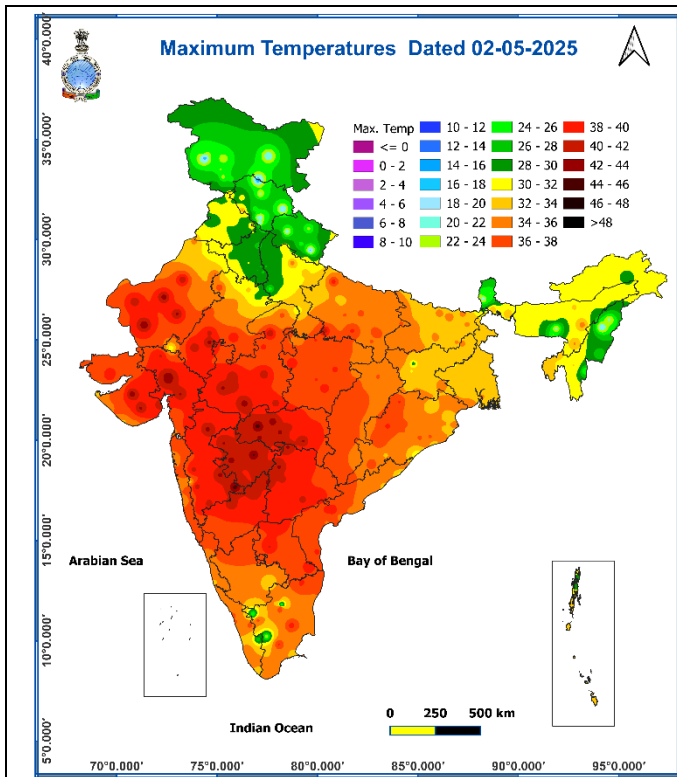


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

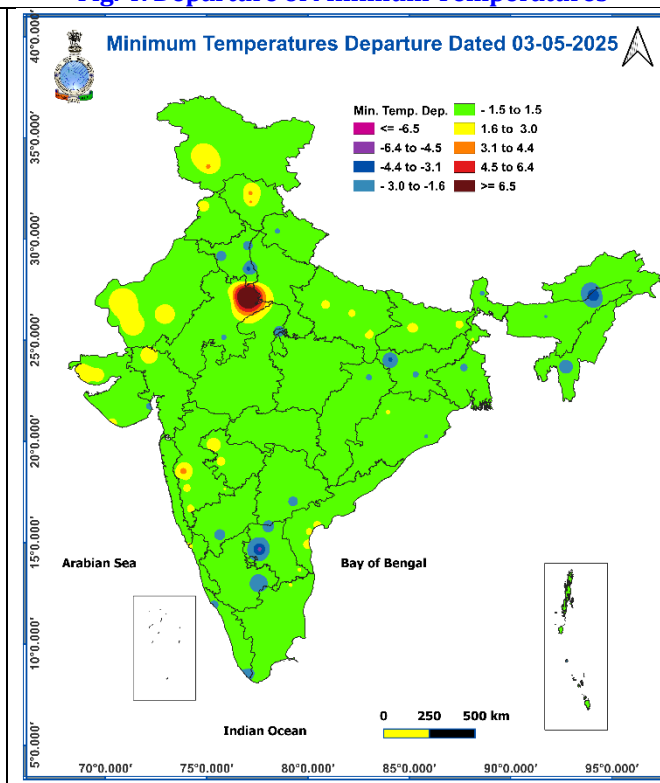
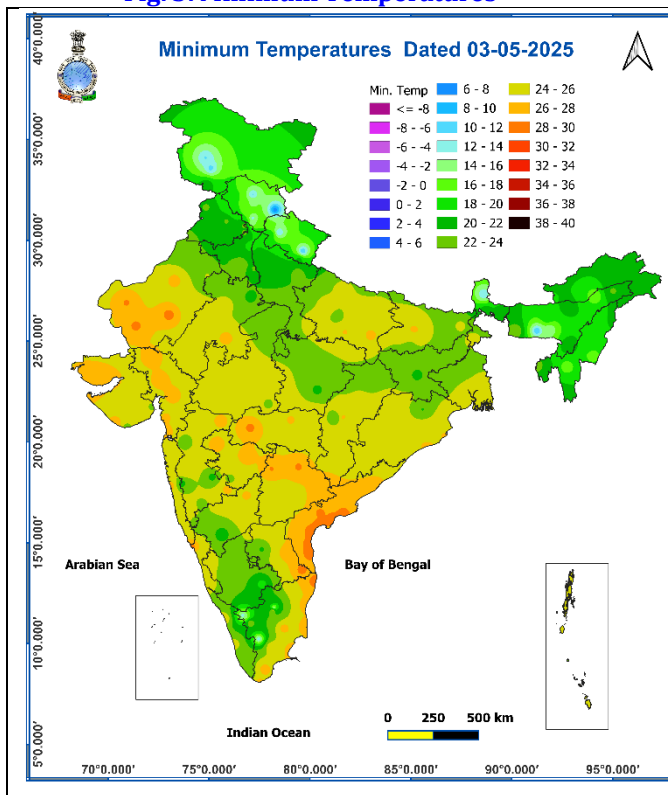
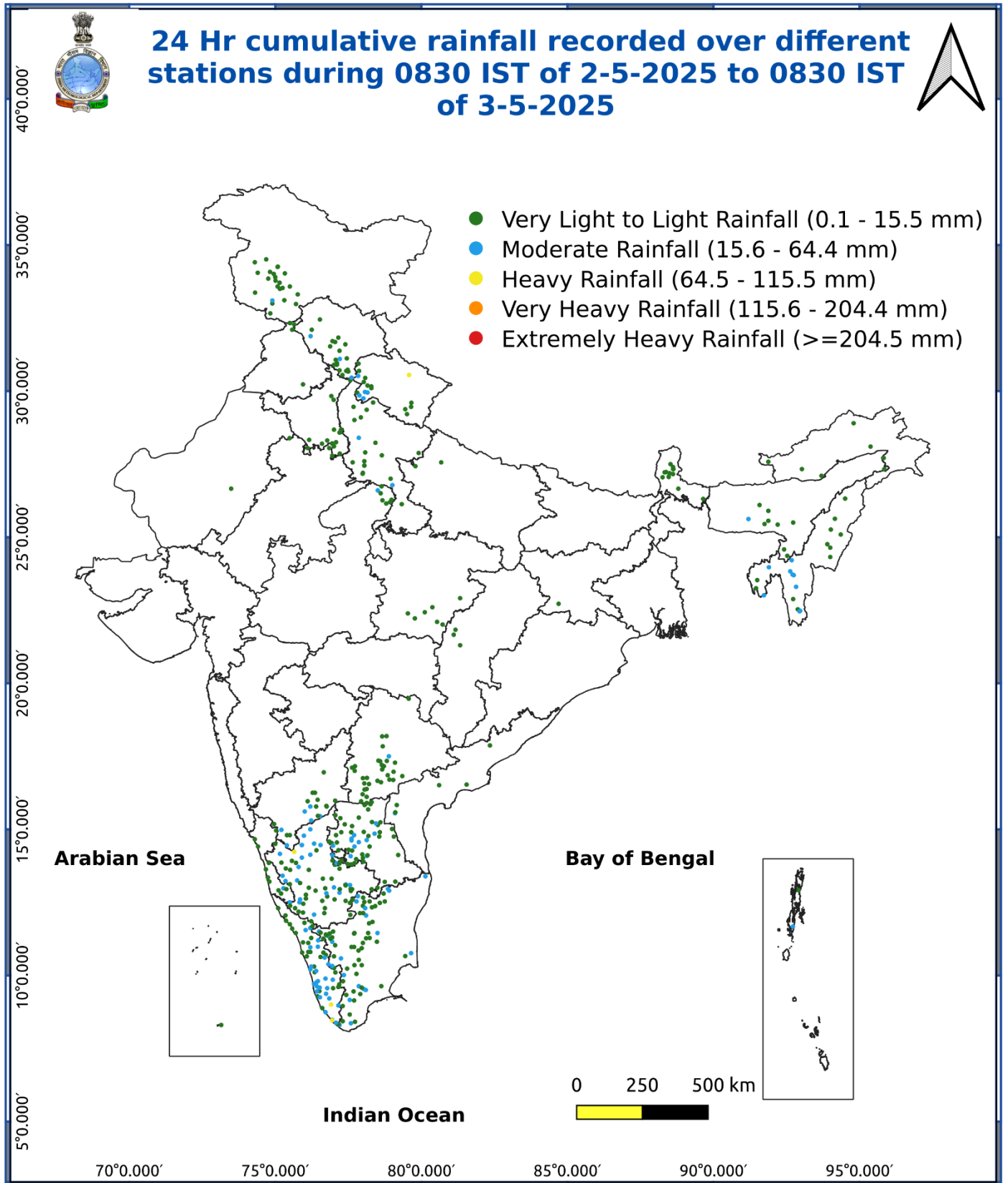


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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 Madhya Pradesh, Odisha on 03rd & 04th; Gangetic West Bengal, Jharkhand, Chhattisgarh, Assam & Meghalaya on 03rd; Bihar, East Uttar Pradesh on 05th, Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh on 04th & 05th; West Madhya Pradesh on 05th & 06th; South Interior Karnataka during 03rd-05th; Gujarat, North Interior Karnataka on 06th & 07th and Madhya Maharashtra & Marathwada on 07th May.
- ❖ **Isolated hailstorm** activity likely over Sikkim, Odisha, Chhattisgarh on 03rd; East Madhya Pradesh, Himachal Pradesh on 03rd & 04th, North Interior Karnataka, Gujarat state on 05th & 06th, South Interior Karnataka on 06th & 07th and Uttarakhand during 03rd-06th and Madhya Maharashtra & Marathwada on 07th 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

- In **Odisha, Kerala and Sikkim**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Sikkim, Odisha, Himachal Pradesh, East Madhya Pradesh, Chhattisgarh and South Interior Karnataka**, use hail nets and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- Undertake immediate harvesting of matured fruits and vegetables in **Marathwada, Interior Karnataka and Gujarat**; groundnut, onion, fruits and vegetables in **Madhya Maharashtra**.
- 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.

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

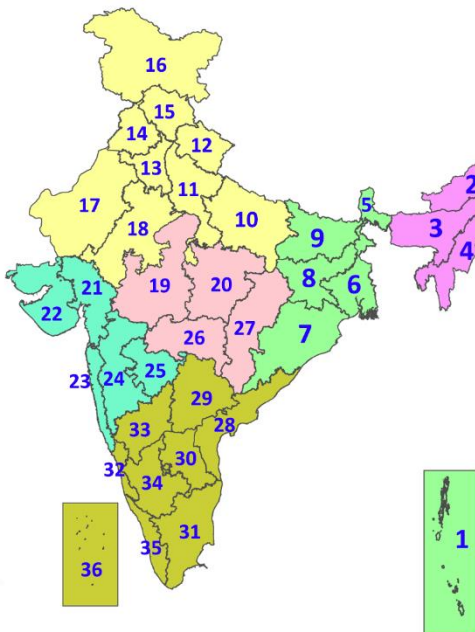
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(Service to the Nation since 1875)

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

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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)