

Monday, May 5, 2025
Time of Issue: 0745 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

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 06th; Madhya Pradesh, Vidarbha, Chhattisgarh till 08th May.
- ❖ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Madhya Pradesh on 05th; Vidarbha on 05th & 06th; Chhattisgarh, Odisha on 05th; Bihar on 05th May.
- ❖ **Isolated hailstorm** activity likely over Vidarbha and East Madhya Pradesh on 05th; Chhattisgarh, Odisha on 05th May.
- ❖ **Isolated heavy rainfall** likely over Odisha on 05th May and Nicobar Islands during 05-08th May 2025.

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 05th-10th May.
- ✓ **Isolated hailstorm** very likely over Uttarakhand on 05th & 06th May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Uttarakhand on 06th & 07th; Punjab, Haryana Chandigarh, Uttar Pradesh on 05th; West Rajasthan during 05th-07th May.
- ✓ **Duststorm** very likely at isolated places over Rajasthan on 05th May.
- ✓ **Isolated heavy rainfall** likely over West Rajasthan during 06th-08th; Uttarakhand during 06th-08th; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 08th 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.
- ❖ **Thundersquall** wind speed reaching 50-60 kmph likely over Coastal Andhra Pradesh & Yanam on 05th May.
- ❖ **Isolated heavy rainfall** over Tamil Nadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam on 05th & 06th; Kerala & Mahe on 07th & 08th 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 during 05th-08th; Arunachal Pradesh during 05th-07th May.

West India:

- ❖ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Gujarat, Konkan & Goa, Madhya Maharashtra and Marathawada during 05th-08th May.
- ❖ **Isolated hailstorm** activity very likely over Gujarat state on 05th; Madhya Maharashtra on 06th & 07th & Marathawada on 07th May.
- ❖ **Thundersquall** wind speed reaching 50-60 kmph gusting to 70 kmph likely over Madhya Maharashtra on 06th & 07th; Marathawada on 07th; Gujarat state during 05th-08th May.
- ❖ **Isolated heavy rainfall** likely over Gujarat state during 05th-08th May with **very heavy rainfall** on 07th & 08th May.

Temperature Forecast:

- ❖ No significant change in maximum temperatures likely over Northwest India & Central India during next 4 days and rise by 2-3°C thereafter for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over West India during next 3 days and rise by 3-5°C thereafter for subsequent 4 days.
- ❖ Gradual fall in maximum temperature likely over West India by 3-5°C during next 7 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 Kerala & Mahe on 05th 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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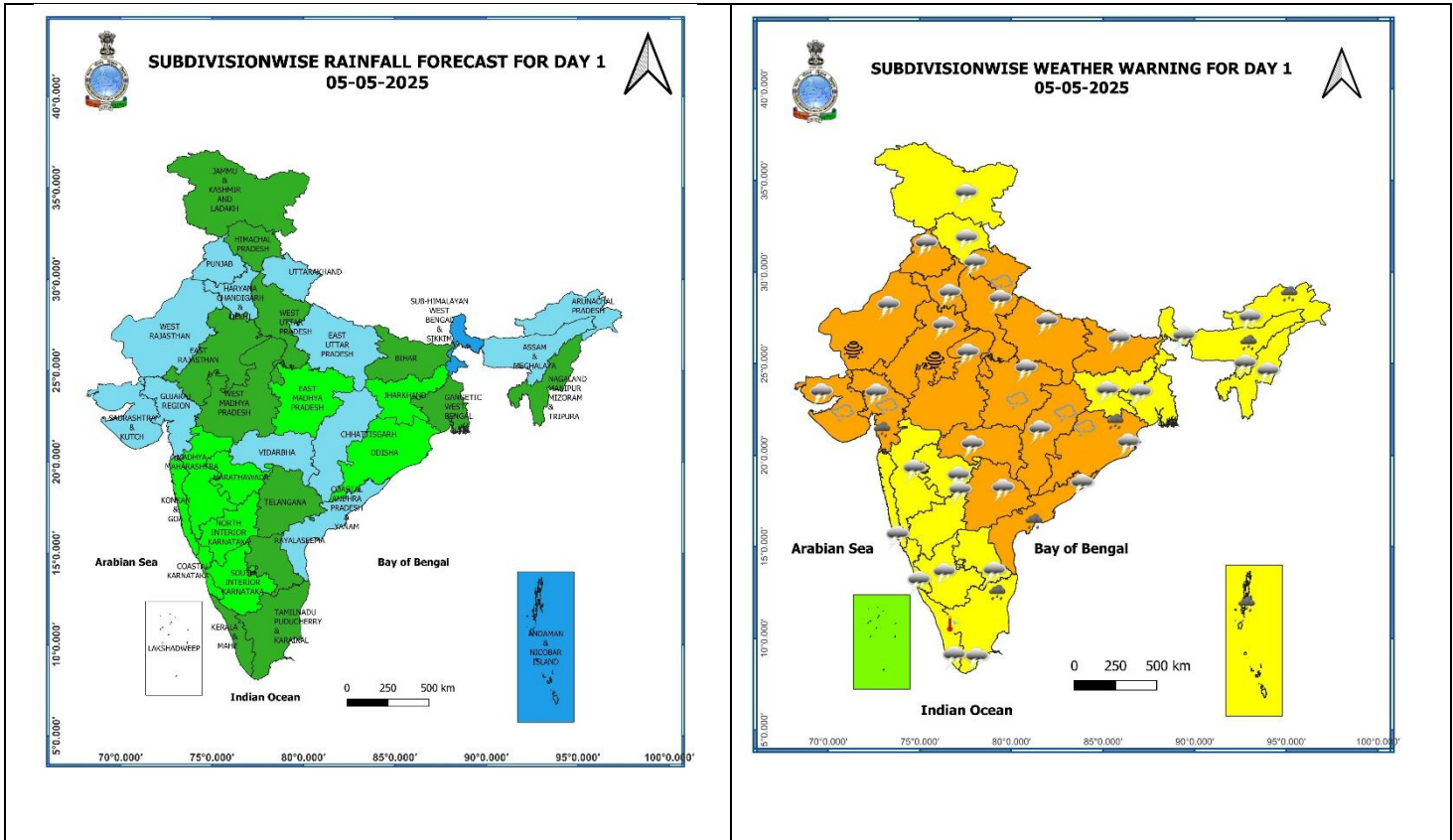
Main Weather Observations:

- ❖ **Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Jammu-Kashmir, Coastal Andhra Pradesh & Yanam; **at a few places** over Himachal Pradesh; **at isolated places** over Uttarakhand, Punjab, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Vidarbha, Odisha, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Andaman & Nicobar Islands; **Dry** over rest of the country.
- ❖ **Significant amount of rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Coastal Andhra Pradesh & Yanam:** Kakinada 7, Tuni 4, Narsapur, Vijayawada 3 each; **West Madhya Pradesh:** Indore 7, Ujjain 1; **West Rajasthan:** Sikar 2; **Himachal Pradesh:** Shimla 2; **Jammu-Kashmir:** Gulmarg 2; **Assam & Meghalaya:** Barapani 2; **Sub-Himalayan West Bengal & Sikkim:** Darjeeling 2.
- ❖ **Minimum Temperature Departures (as on 04-05-2025):** Minimum temperatures were **appreciably above normal (3.1°C to -5.0°C)** at Saurashtra & Kutch; **above normal (1.6°C to 3.0°C)** at a few places over Himachal Pradesh, Punjab, Coastal Andhra Pradesh & Yanam; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Madhya Maharashtra. These were **markedly below normal (-5.1 or below)** at isolated places over Chhattisgarh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Madhya Pradesh; at isolated places over Rajasthan; **below normal (-1.6°C to -3.0°C)** at a few places over Jharkhand; at isolated places over Haryana-Chandigarh-Delhi, Gangetic West Bengal, Uttarakhand, Telangana, Vidarbha and normal over rest parts of the country (**Fig. 4**). Yesterday, the **lowest minimum temperature of 20.4°C** was reported at **Alwar (East Rajasthan)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 04-05-2025):** Maximum Temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at a few places over Tamil Nadu, Puducherry & Karaikal, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim. These were **appreciably below normal (-3.1°C to -5.0°C)** at many places over Coastal Andhra Pradesh & Yanam, Odisha, East Madhya Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, West Madhya Pradesh, Uttar Pradesh, Rajasthan, Telangana, Chhattisgarh, Gujarat state; **below normal (-1.6°C to -3.0°C)** at isolated places over Konkan & Goa, Bihar, Jharkhand, Punjab, Uttarakhand, Himachal Pradesh and normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature of 43.2°C** was reported at **Nandurbar (Madhya Maharashtra)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

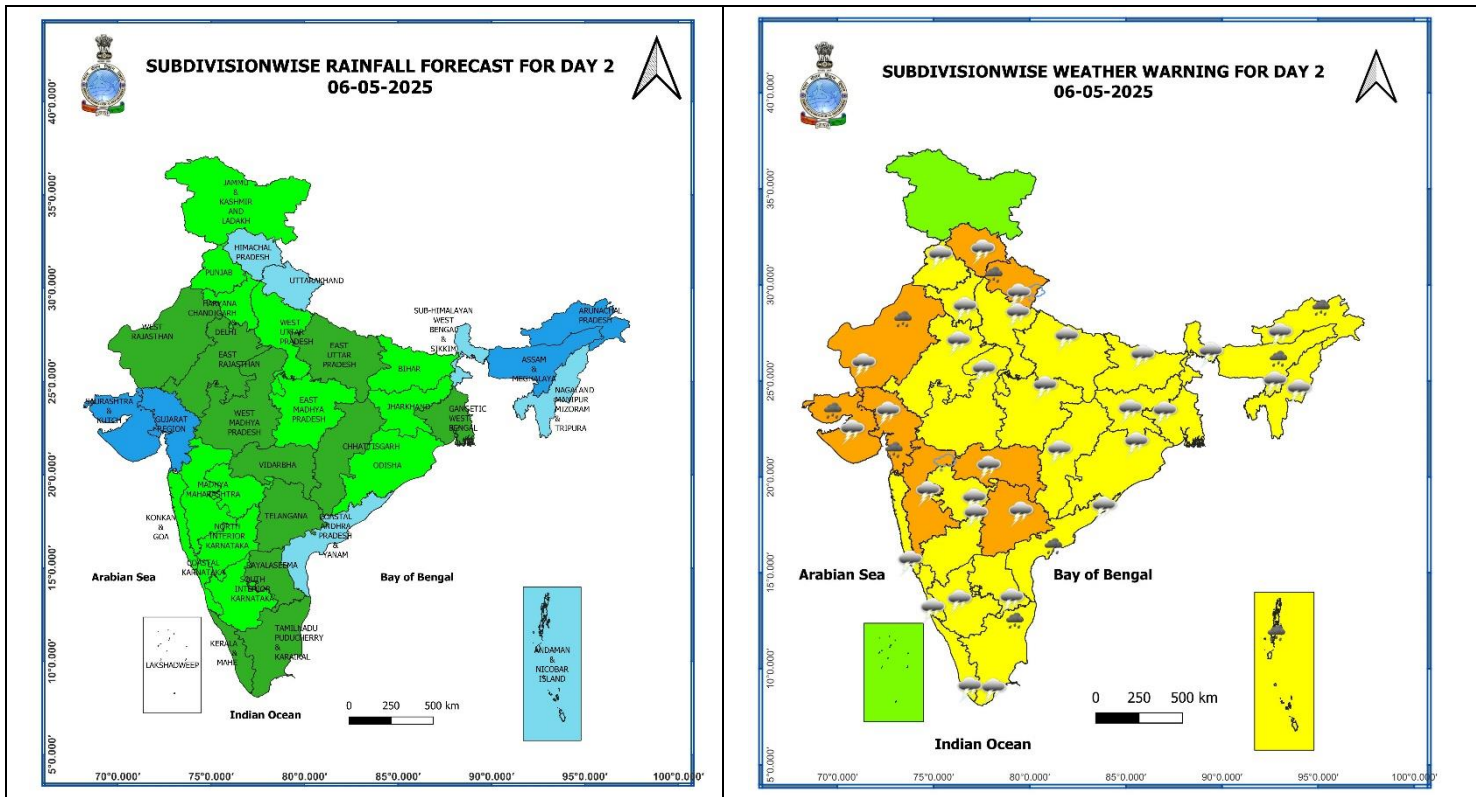
- ❖ The **Western Disturbance** as a cyclonic circulation over central Pakistan adjoining Punjab and northwest Rajasthan between 3.1 & 9.4 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over central parts of south Uttar Pradesh now lies over northwest Madhya Pradesh and extends upto 1.5 km above mean sea level.
- ❖ The north-south **trough** now runs from Marathwada to south Tamil Nadu across Interior Karnataka at 0.9 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over northern parts of Marathawada & neighbourhood has merged with the above trough.
- ❖ The upper air **cyclonic circulation** over northeast Arabian sea adjoining Gujarat coasts now lies over north Gujarat & neighbourhood at 1.5 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over northern parts of Gangetic West Bengal now lies over northeast Jharkhand & neighbourhood and extends upto 1.5 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over Northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The north-south **trough** from cyclonic circulation over northern parts of Gangetic West Bengal to north coastal Adhara Pradesh across coastal Odisha at 0.9 km above mean sea level has become less marked.
- ❖ The upper air **cyclonic circulation** over north coastal Odisha at 3.1 km above mean sea level has become less marked.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 12th May, 2025)



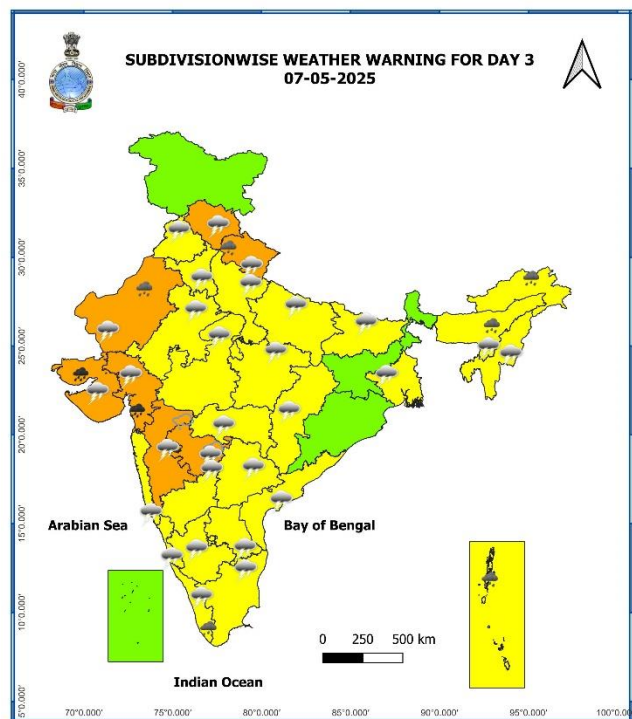
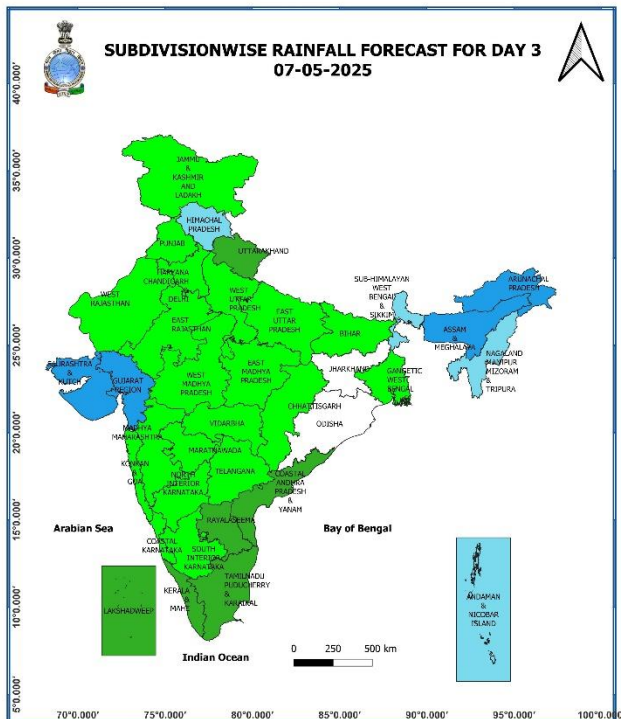
05th May (Day 1)

- ❖ **Thundersquall with wind speed reaching(60-70kmph)** very likely at isolated places over West Rajasthan, Chhattisgarh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar, Chhattisgarh, Coastal Andhra Pradesh, Gujarat, Madhya Pradesh, Odisha, Punjab, Rajasthan, Uttar Pradesh and Vidarbha and likely at isolated places over Haryana, Chandigarh & Delhi.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Jammu and Kashmir and Ladakh, Rayalaseema, Telangana, Uttarakhand and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Costal Karnataka, Himachal Pradesh, Interior Karnataka, Jharkhand, Kerala and Mahe, Nagaland, Manipur, Mizoram and Tripura and Tamilnadu & Puducherry.
- ❖ **Hot and Humid** very likely at isolated places over Kerala and Mahe.
- ❖ **Dust Storm** very likely at isolated places over Rajasthan.
- ❖ **Hailstorm** very likely at isolated places over Chhattisgarh, East Madhya Pradesh, Gujarat, Odisha and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra and Marathwada.
- ❖ **Heavy Rain** very likely at isolated places over Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh, Gujarat Region, Odisha and Tamilnadu & Puducherry.
- ❖ **Squally wind with speed 45 Kmph To 50 Kmph gusting to 55 Kmph** likely to prevail over some parts of Northwest Arabian Sea & Adjoining Oman Coast, Along & Off Gujarat Coasts and Northeast Arabian Sea. Fishermen are advised not to venture into these areas.



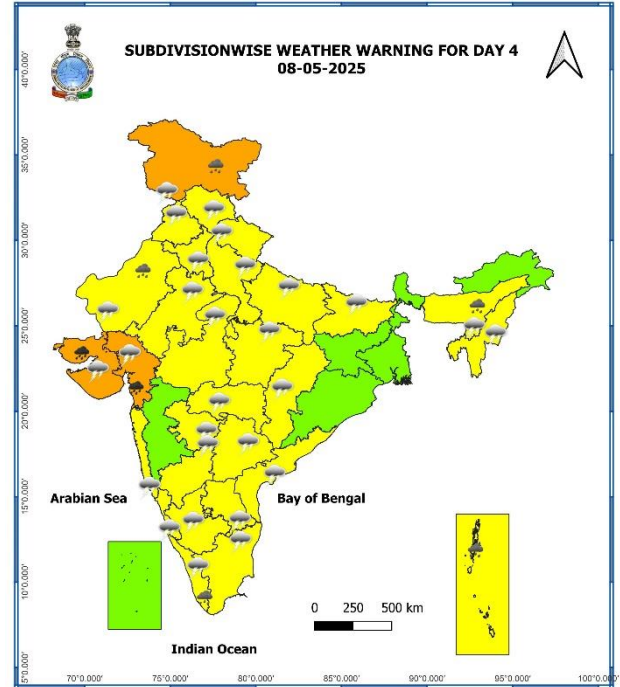
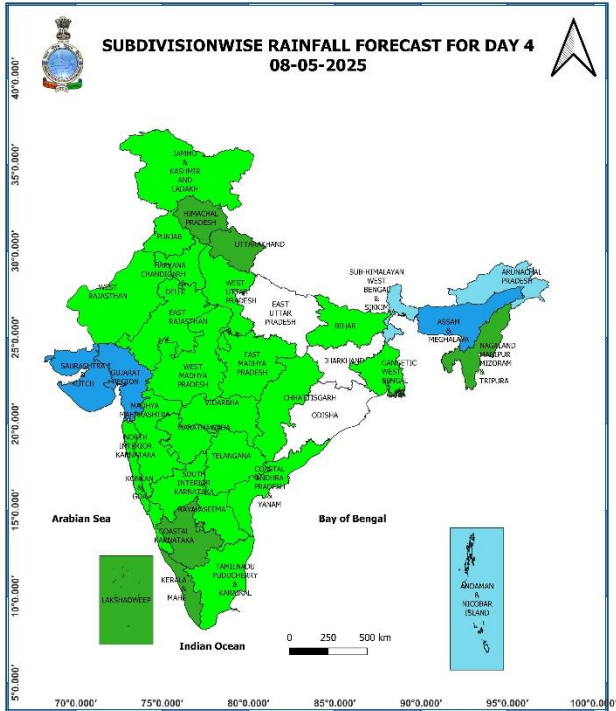
06th May (Day 2)

- ❖ **Thundersquall with wind speed reaching(60-70kmph)** very likely at isolated places over Gujarat Region.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Gujarat, Madhya Maharashtra, Uttarakhand, Vidarbha and West Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya, Bihar, Chhattisgarh, East Rajasthan, Himachal Pradesh, Interior Karnataka, Madhya Pradesh, Marathwada and Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Coastal Karnataka, Jharkhand, Kerala and Mahe, Nagaland, Manipur, Mizoram and Tripura, Punjab, Tamilnadu & Puducherry, Telangana, Uttar Pradesh and West Bengal & Sikkim and likely at isolated places over Haryana, Chandigarh & Delhi.
- ❖ **Hailstorm** very likely at isolated places over Madhya Maharashtra and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh and Konkan & Goa.
- ❖ **Heavy Rain** very likely at isolated places over Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh, Gujarat, Tamilnadu & Puducherry, Uttarakhand and West Rajasthan.
- ❖ **Squally Wind with Speed 45 Kmph to 50 Kmph Gusting To 55 Kmph** likely to prevail over some parts of Northwest Arabian Sea & Adjoining Oman Coast, Along & Off Gujarat Coasts and Northeast Arabian Sea. Fishermen are advised not to venture into these areas.



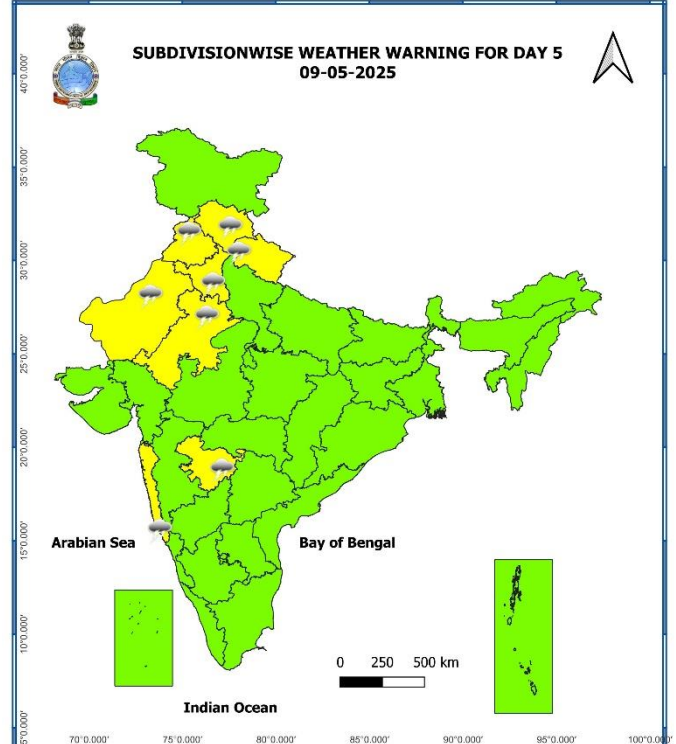
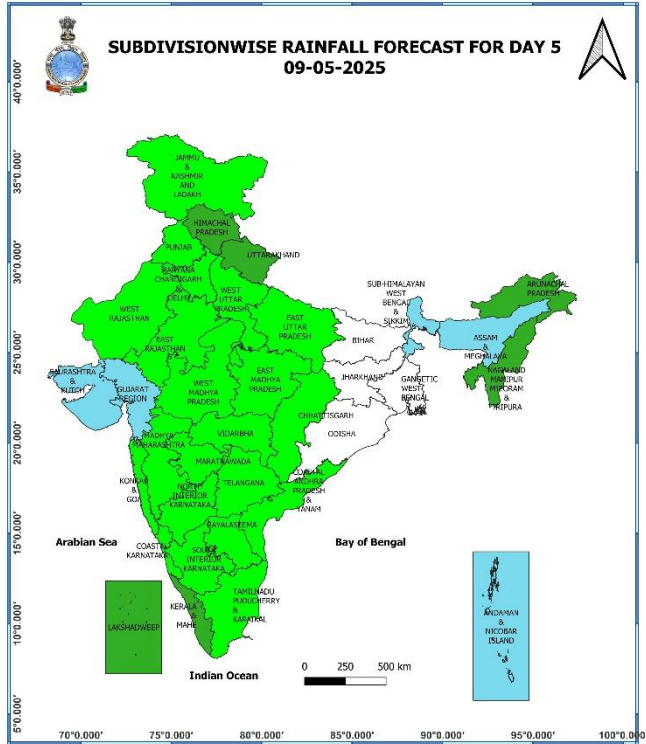
07th May (Day 3)

- ❖ **Thundersquall with wind speed reaching(60-70kmph)** very likely at isolated places over Gujarat state.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Gujarat, Madhya Maharashtra, Marathwada, Uttarakhand and West Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya, Chhattisgarh, East Rajasthan, Himachal Pradesh, Interior Karnataka, Kerala and Mahe, Madhya Pradesh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andhra Pradesh, Bihar, Costal Karnataka, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Punjab, Tamilnadu & Puducherry, Telangana, Uttar Pradesh and Vidarbha.
- ❖ **Very Heavy Rain** likely at isolated places over Gujarat.
- ❖ **Hailstorm** likely at isolated places over Madhya Maharashtra and Marathwada.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Konkan & Goa.
- ❖ **Heavy Rain** likely at isolated places over Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Kerala and Mahe, Uttarakhand and West Rajasthan.
- ❖ **Squally Wind with Speed 45 Kmph to 50 Kmph Gusting To 55 Kmph** likely to prevail over some parts of Northwest Arabian Sea & Adjoining Oman Coast, along & off Gujarat Coasts and Northeast Arabian Sea. Fishermen are advised not to venture into these areas.



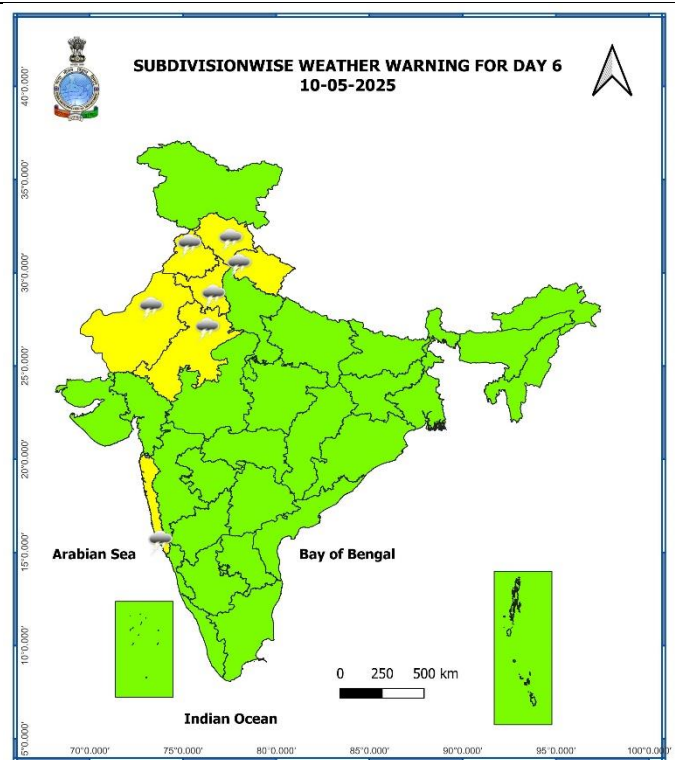
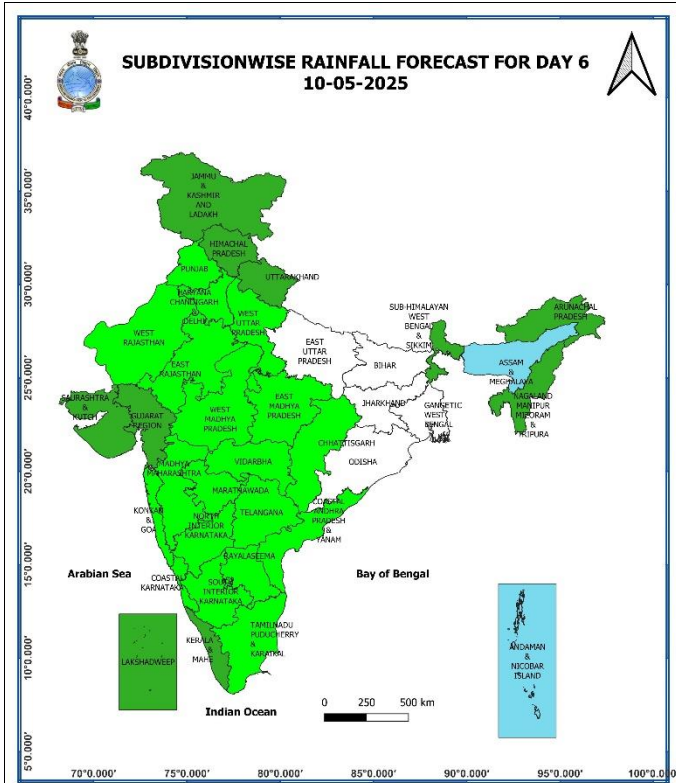
08th May (Day 4)

- ❖ **Thundersquall with wind speed reaching(60-70kmph)** very likely at isolated places over Saurashtra & Kutch.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Gujarat.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh, Interior Karnataka, Jammu and Kashmir and Ladakh, Kerala and Mahe, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Rajasthan and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Bihar, Costal Karnataka, Haryana, Chandigarh & Delhi, Himachal Pradesh, Punjab, Tamilnadu & Puducherry, Telangana, Uttar Pradesh and Vidarbha.
- ❖ **Very Heavy Rain** likely at isolated places over Gujarat.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Konkan & Goa and Marathwada.
- ❖ **Heavy Rain** likely at isolated places over Nicobar Islands, Assam & Meghalaya, Jammu and Kashmir and Ladakh, Kerala and Mahe, Uttarakhand and West Rajasthan.



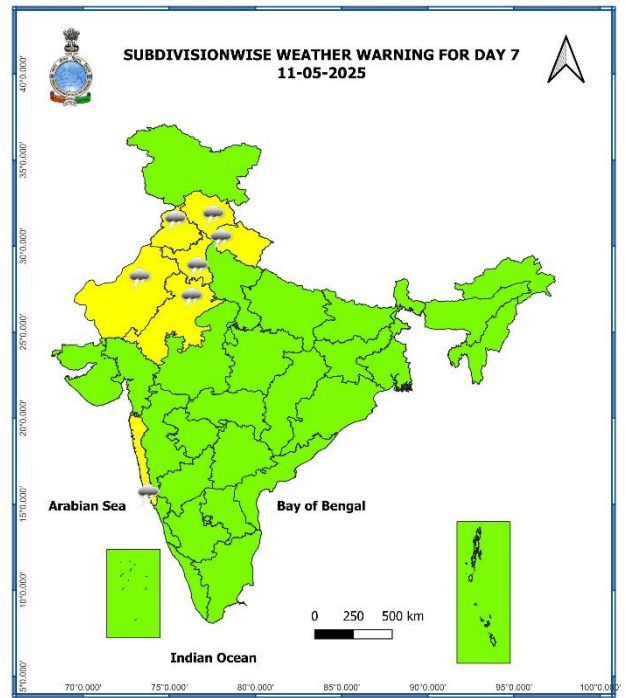
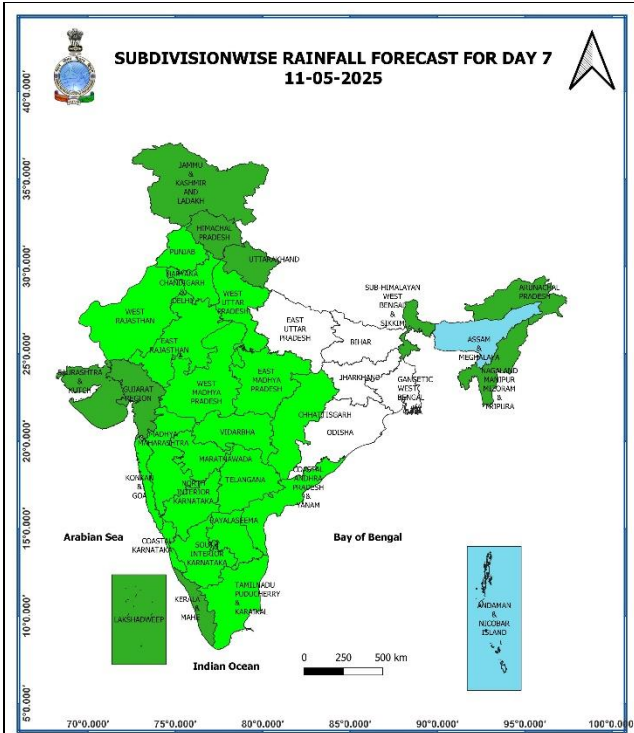
09th May (Day 5)

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



10th May (Day 6)

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



11th May (Day 7)

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

Weather Outlook for subsequent 3 days (During 12th May- 14th May, 2025)

- ❖ **Fairly widespread to widespread** rainfall activity likely over northeast India.
- ❖ **Scattered to fairly widespread** rainfall activity likely over northwest and south peninsular India.
- ❖ **Isolated to scattered rainfall** likely over East India, Chhattisgarh, Vidarbha and East Madhya Pradesh.

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

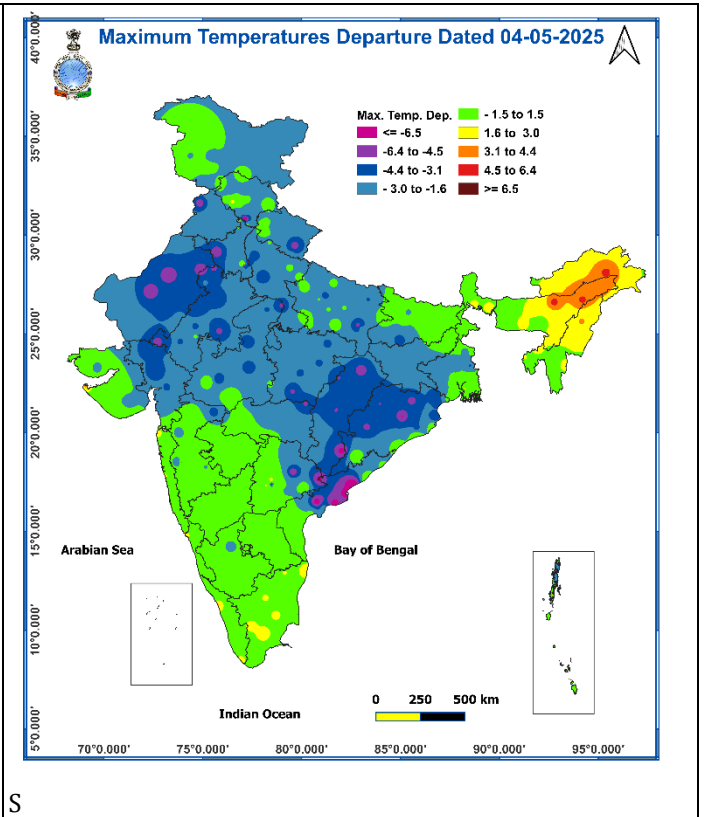
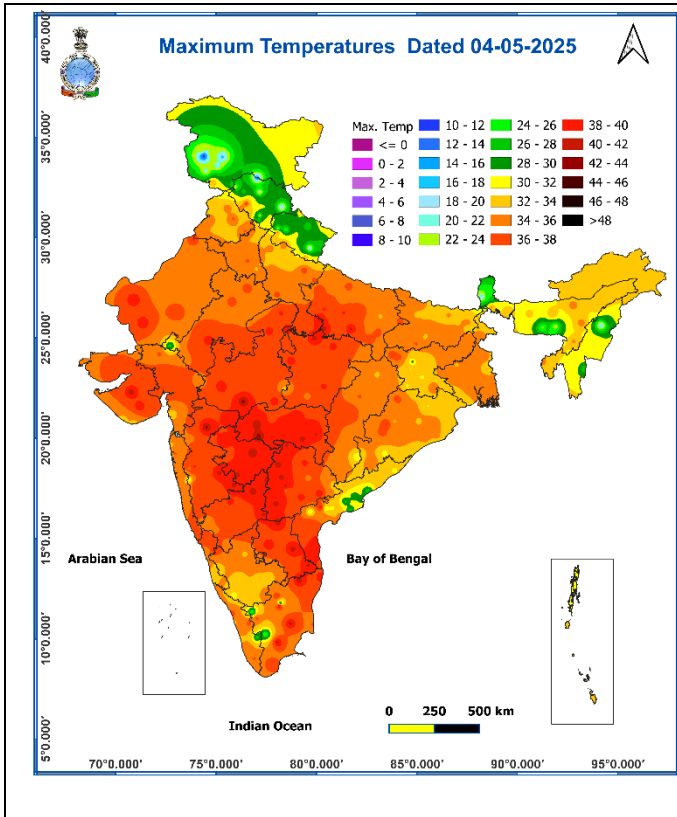


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

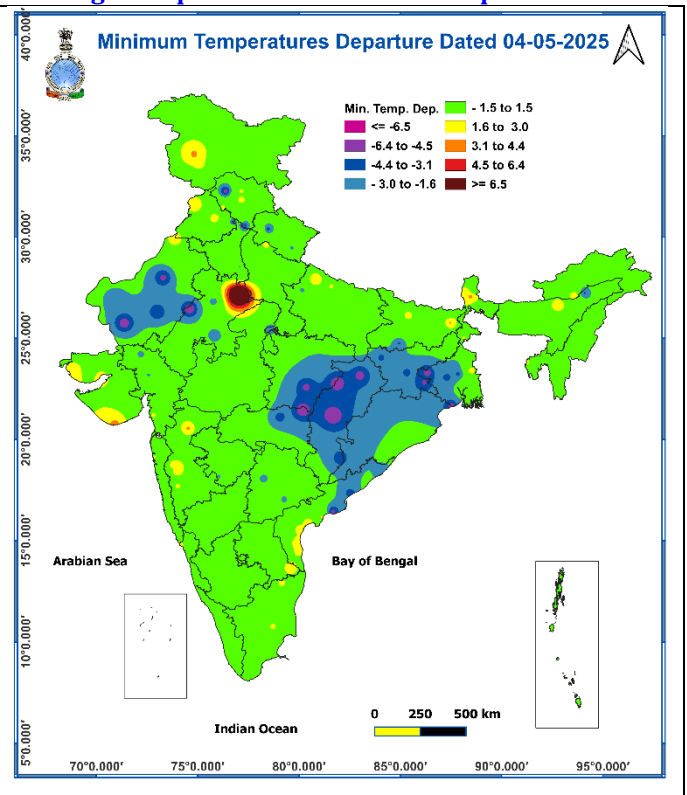
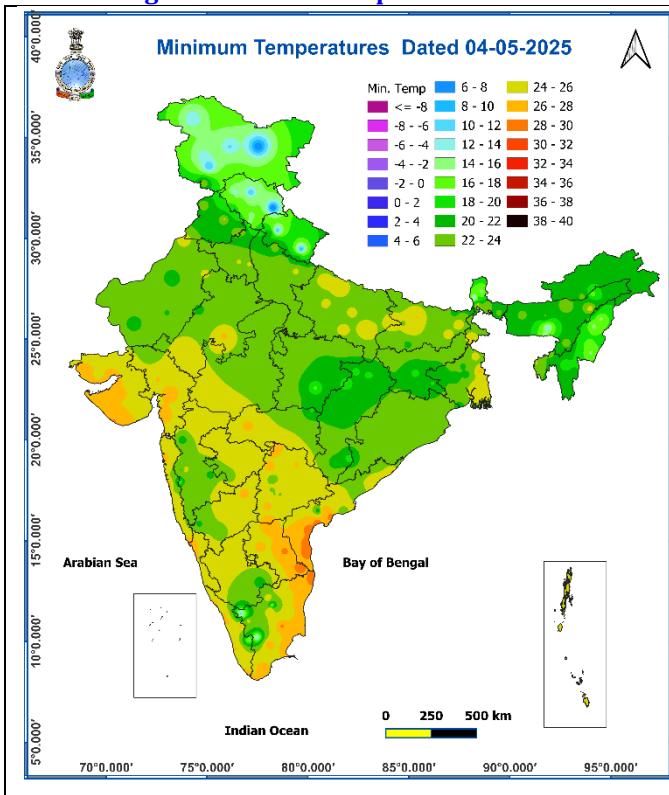
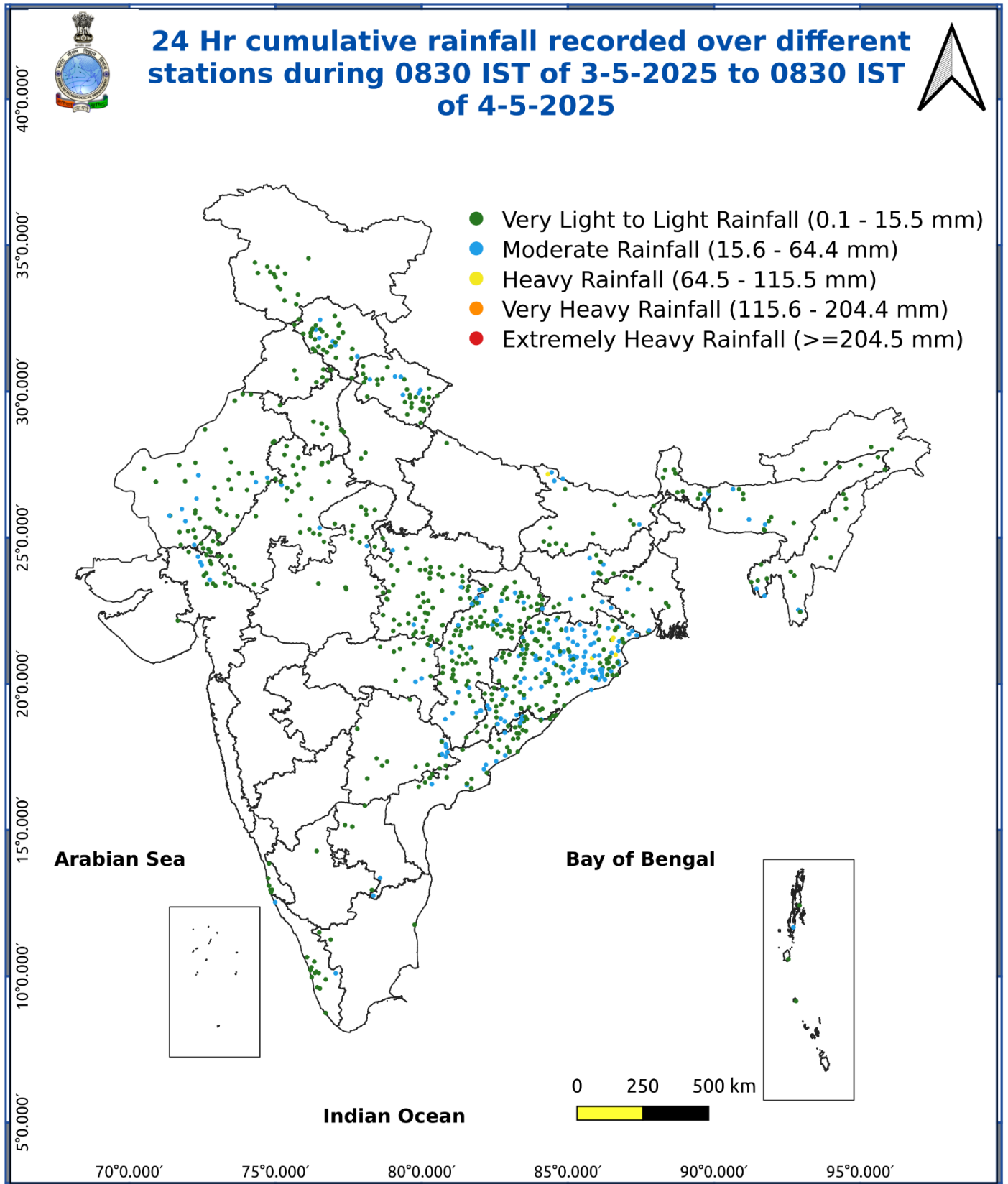


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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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, Bihar, Punjab, Haryana Chandigarh, Uttar Pradesh, Coastal Andhra Pradesh & Yanam on 05th; Vidarbha on 05th & 06th; Chhattisgarh, Odisha on 05th; Uttarakhand, Madhya Maharashtra on 06th & 07th; West Rajasthan during 05th-07th; Marathwada on 07th; Gujarat state during 05th-08th May.
- ✓ **Isolated hailstorm** activity likely over; Vidarbha, East Madhya Pradesh, Gujarat state on 05th; Chhattisgarh, Odisha on 05th; Uttarakhand on 05th & 06th May; Madhya Maharashtra on 06th & 07th & 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

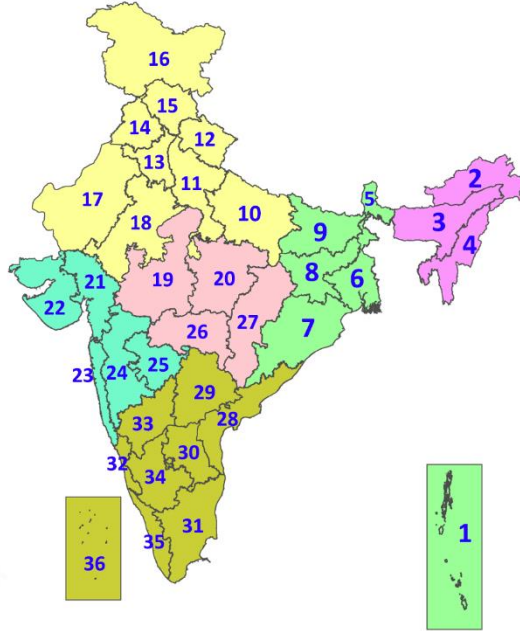
- In **Odisha, West Rajasthan, Gujarat, Arunachal Pradesh, Assam & Meghalaya** and **Coastal Andhra Pradesh**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Odisha, Uttarakhand, Gujarat, Madhya Pradesh, Chhattisgarh, Vidarbha, Marathwada, Interior Karnataka** and **Telangana**, 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 **Uttarakhand, Marathwada, Interior Karnataka** and **Gujarat**; groundnut, onion, fruits and vegetables in **Madhya Maharashtra**.
- 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.
- 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)



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)