

Monday, May 12, 2025
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Advancement of Southwest Monsoon:

Southwest Monsoon is very likely to advance into South Andaman Sea, some parts of Southeast Bay of Bengal and Nicobar Islands around 13th May, 2025. It is likely to advance over some parts of south Arabian Sea, Maldives & Comorin area; some more parts of South Bay of Bengal, entire Andaman & Nicobar Islands and Andaman Sea and some parts of central Bay of Bengal during subsequent 4-5 days.

Forecast and Warnings

Northwest India:

- ✓ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana Chandigarh, northeast Rajasthan on 12th May.

West India:

- ❖ **Isolated** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Madhya Maharashtra during 12th-15th; **with winds speed reaching 30-40 kmph gusting to 50 kmph** over Konkan & Goa on 13th; Marathawada during 12th-13th; Gujarat State on 12th May.

East & Central India:

- ❖ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over West Madhya Pradesh during 12th-13th; Chhattisgarh, West Bengal & Sikkim during 12th-15th, Bihar, Jharkhand on 15th; **with winds speed reaching 30-40 kmph gusting to 50 kmph** over East Madhya Pradesh, Vidarbha, Jharkhand during 12th-13th and over Andaman & Nicobar Islands during 13th-15th May.
- ❖ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Sub-Himalayan West Bengal & Sikkim on 12th; Chhattisgarh on 14th & 15th May.
- ❖ **Isolated heavy rainfall** likely over Nicobar on 13th & 14th; Sub-Himalayan West Bengal & Sikkim during 12th-15th with **isolated very heavy rainfall** on Sub-Himalayan West Bengal & Sikkim on 12th 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 Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Interior Karnataka during 12th-15th; with **lightning** over Lakshadweep on 12th and over Coastal Karnataka during 12th-15th May.
- ❖ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Coastal Andhra Pradesh & Yanam on 13th & 14th and over Telangana on 14th & 15th May.
- ❖ **Isolated heavy rainfall** likely over Tamilnadu Puducherry & Karaikal during 13th-15th; Rayalaseema during 14th-16th and during 13th-15th May.

Northeast India:

- ❖ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Northeast India during next 5 days.
- ❖ **Isolated heavy rainfall** over Arunachal Pradesh, Assam & Meghalaya during 12th-15th and over Nagaland, Manipur, Mizoram & Tripura during 12th-14th with **isolated very heavy rainfall** over Arunachal Pradesh, Assam & Meghalaya on 13th-14th May.
- ❖ **Extremely heavy rainfall** at isolated places over Meghalaya on 13th May.

Maximum Temperature Forecast:

- ❖ Gradual rise in maximum temperatures by 3-5°C likely over Northwest India and Gujarat State during next 6 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Central India during next 6 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Jharkhand and north interior Odisha during next 2 days.
- ❖ No significant change in maximum temperatures likely over interior Maharashtra during next 24 hours and gradual rise by 2-4°C thereafter for subsequent 5 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

Heat wave and Hot & Humid weather warning:

- ❖ **Heat wave conditions** very likely in isolated pockets of Sub-Himalayan West Bengal, Bihar during 12th-14th; Gangetic West Bengal during 12th-15th; Jharkhand on 13th & 14th; north coastal Odisha during 13th-15th; West Uttar Pradesh during 15th-17th; East Uttar Pradesh during 14th-17th and West Rajasthan on 17th May.
- ❖ **Hot & humid weather** is likely to prevail over Jharkhand, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe on 12th May.

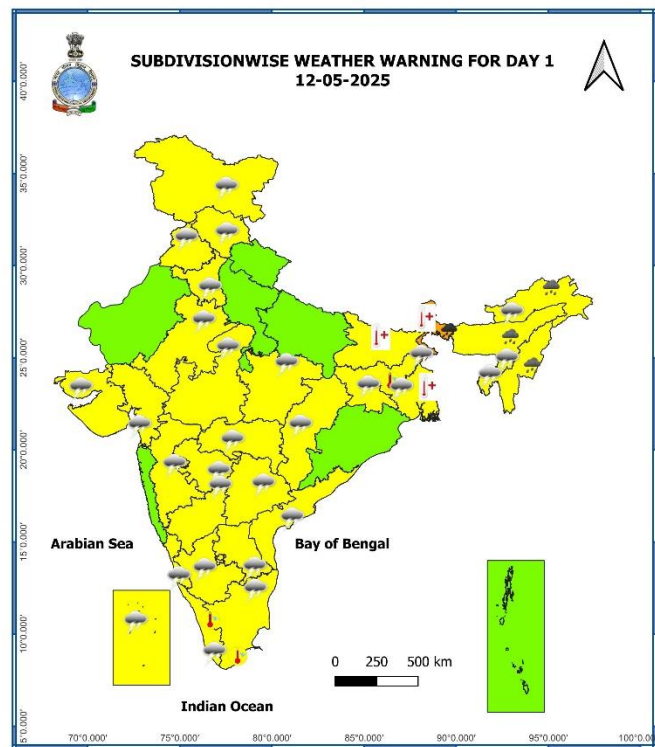
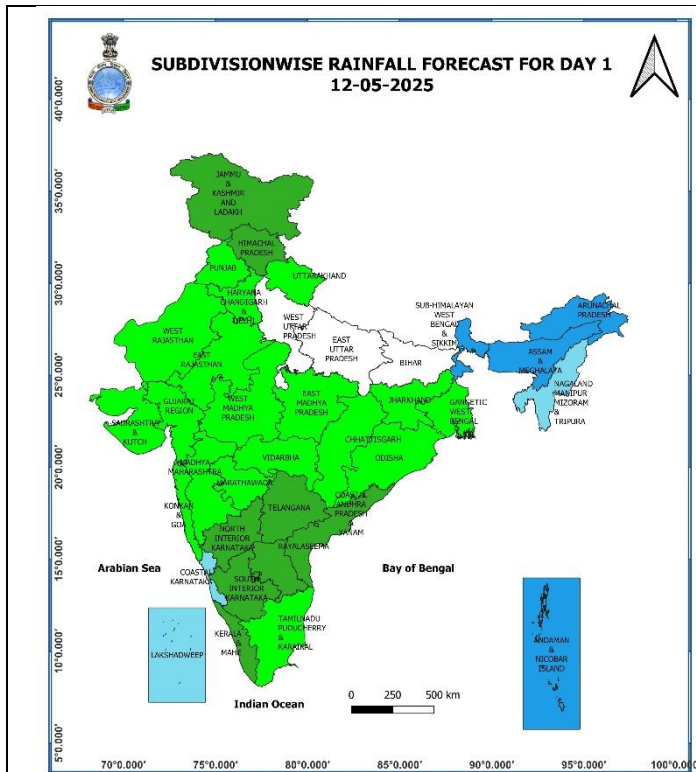
Main Weather Observations:

- ❖ **Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Jammu-Kashmir, Andaman & Nicobar Islands; **at many places** over Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya; **at isolated places** over Lakshadweep, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka, Madhya Maharashtra, Marathwada, Vidarbha, Madhya Pradesh, Chhattisgarh, Uttar Pradesh, East Rajasthan, Saurashtra & Kutch, Uttarakhand, Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim.
- ❖ **Significant amount of rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Assam & Meghalaya:** Shillong 4, Dimapur 3, Luming 2; **Uttarakhand:** Mukteshwar 3; **Andaman & Nicobar Islands:** Car Nicobar 3, Hut Bay 2; **North Interior Karnataka:** Bengaluru 3; **West Madhya Pradesh:** Khargone 2; **Tripura:** Agartala 2.
- ❖ Yesterday, **Heat Wave Conditions** prevailed at isolated places over West Bengal.
- ❖ **Minimum Temperature Departures (as on 11-05-2025):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over East Uttar Pradesh and Bihar; at isolated places over Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Odisha and Saurashtra & Kutch. These were **appreciably below normal (-5.0°C to -3.1°C)** at a few places over Lakshadweep; at isolated places over West Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Delhi, kg, Telangana, Tamil Nadu, Puducherry & Karaikal and normal over rest parts of the country (**Fig. 4**). Yesterday, the **lowest minimum temperature** of **20.3°C** was reported at **Nandigama (Coastal Andhra Pradesh & Yanam)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 11-05-2025):** Maximum Temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Bihar, East Uttar Pradesh, Gangetic West Bengal, costal Odisha; **above normal (1.6°C to 3.0°C)** at many places over Kerala & Mahe; at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Jharkhand, Assam & Meghalaya, Arunachal Pradesh and Tripura. These were **markedly below normal (-5.1 or below)** at isolated places West Madhya Pradesh, East Rajasthan; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Andaman & Nicobar Islands, East Madhya Pradesh, Vidarbha, Madhya Maharashtra, Gujarat state, Uttarakhand; **below normal (-1.6°C to -3.0°C)** at most places over Telangana; at many places over North Interior Karnataka; at few places over Himachal Pradesh; at isolated places over West Uttar Pradesh, Rayalaseema, Marathwada Haryana-Chandigarh-Delhi and normal over rest parts of the country. (**Fig. 2**). Yesterday, the highest **maximum temperature** of **43.2°C** was reported at **Sambalpur (Odisha)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Western Disturbance** as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 71°E to the north of Lat. 30°N.
- ❖ The **trough** from Saurashtra to eastcentral Arabian Sea across North East Arabian Sea at 3.1 km above mean sea level persists.
- ❖ The **north-south trough** from Marathwada to Gulf of Mannar across Interior Karnataka and Tamil Nadu at 0.9 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over Northeast Assam & neighbourhood persists and now extends upto 4.5 km above mean sea level.
- ❖ The **trough** from above cyclonic circulation over Northeast Assam & neighbourhood to Jharkhand across north Bangladesh, Gangetic West Bengal at 0.9 km above mean sea level persists.
- ❖ **Southwest Monsoon** is very likely to advance into South Andaman Sea, some parts of Southeast Bay of Bengal and Nicobar Islands around 13th May, 2025. It is likely to further advance over some parts of south Arabian Sea, Maldives & Comorin area; some more parts of South Bay of Bengal, entire Andaman & Nicobar Islands and Andaman Sea; and some parts of central Bay of Bengal during subsequent 4-5 days.

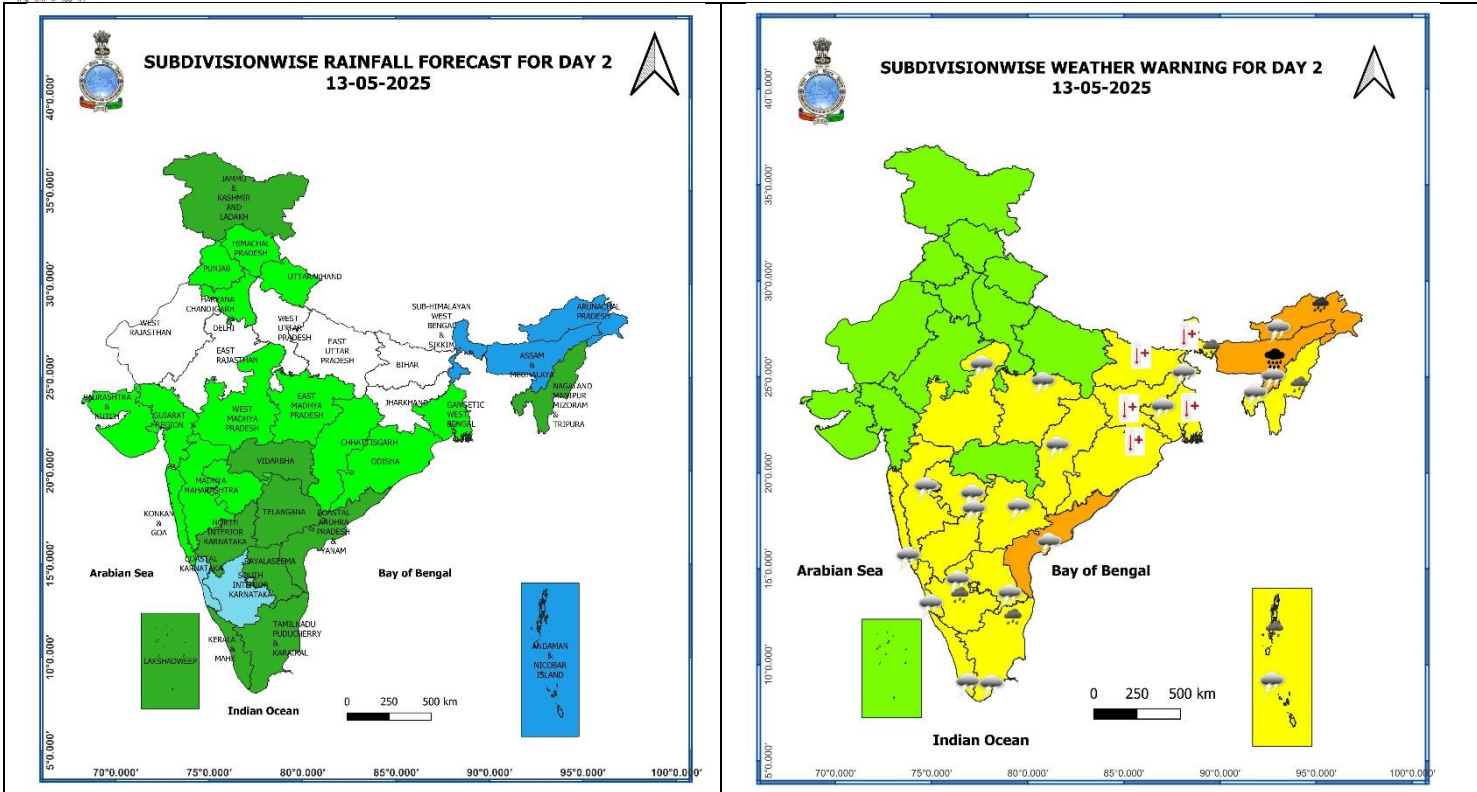
Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 18th May, 2025)



12th May (Day 1)

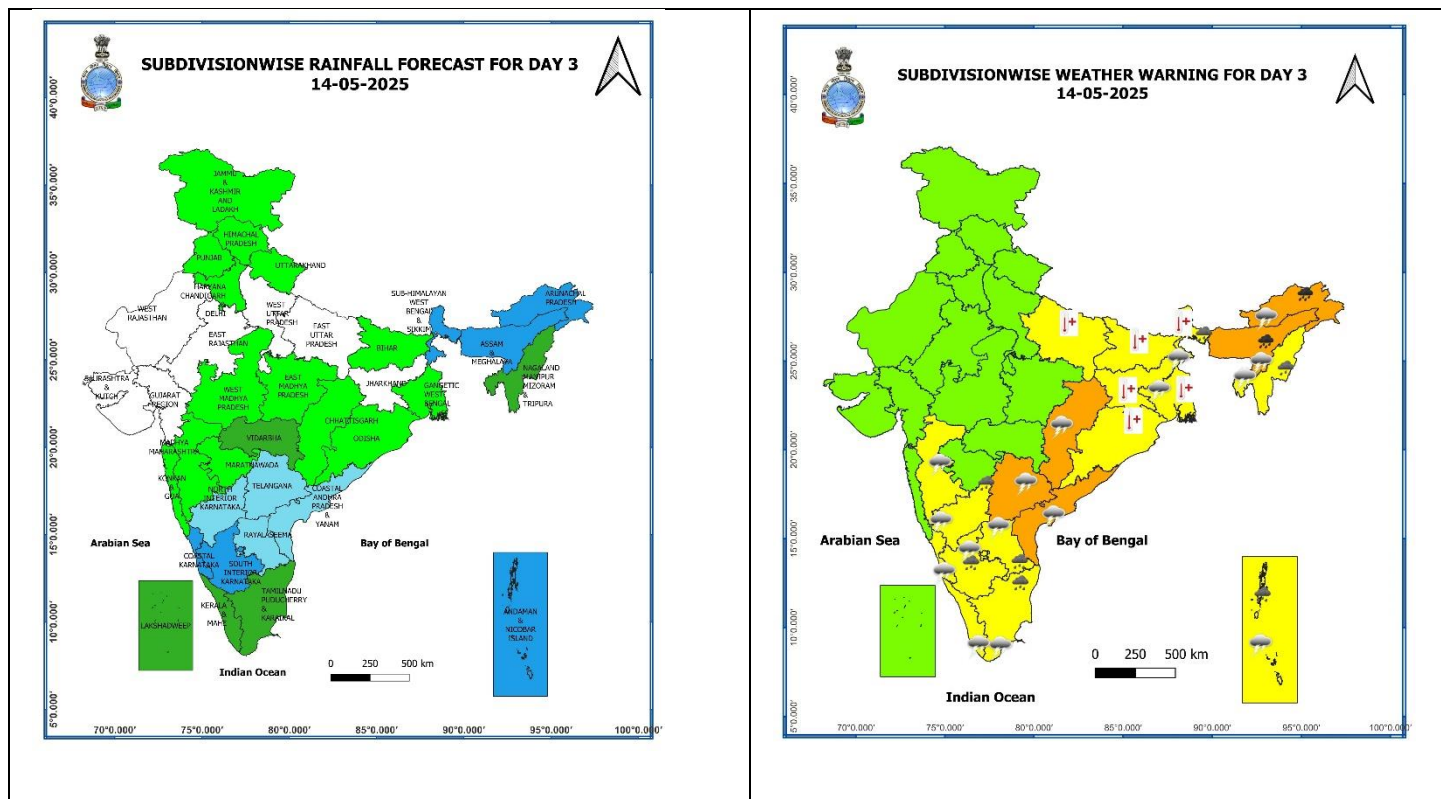
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Costal Karnataka, Lakshadweep and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over East Madhya Pradesh, Gujarat, Himachal Pradesh, Interior Karnataka, Jharkhand, Tamilnadu & Puducherry and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Chhattisgarh, East Rajasthan, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Jammu and Kashmir and Ladakh, Kerala and Mahe, Madhya Maharashtra, Marathwada, Punjab, Telangana and West Madhya Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- ❖ **Heat Wave condition** very likely at isolated places over Bihar and West Bengal & Sikkim.
- ❖ **Hot and Humid** weather very likely at isolated places over Jharkhand, Kerala and Mahe and Tamilnadu & Puducherry.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia Coast, over Gulf of Mannar and adjoining Comorin area.

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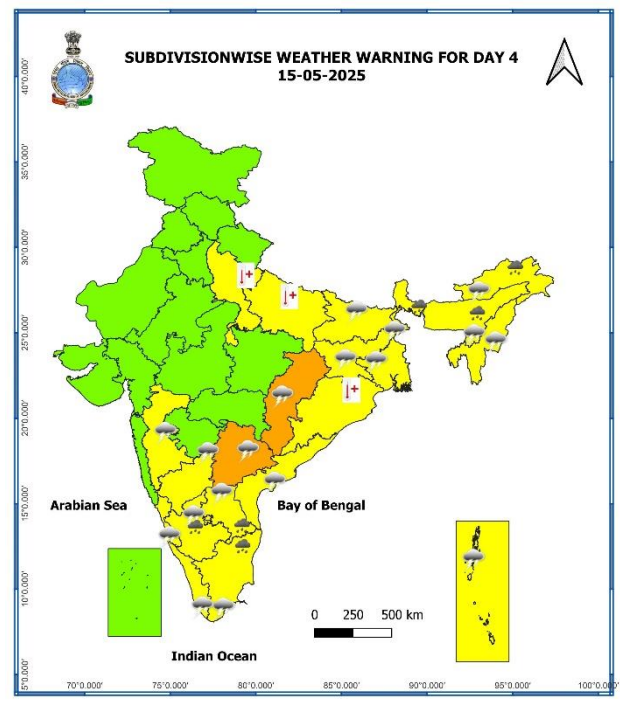
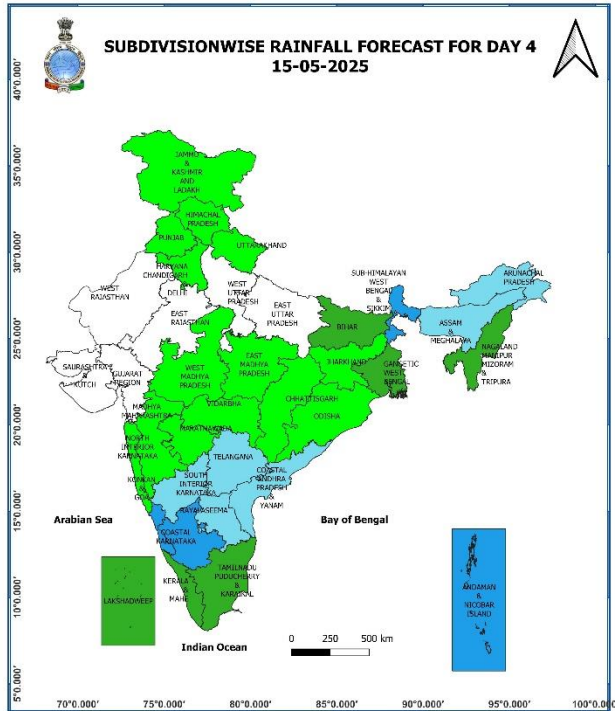
13th May (Day 2)

- ❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Assam & Meghalaya.
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Heavy Rain** very likely at isolated places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram and Tripura, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Coastal Karnataka and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andaman & Nicobar Islands, East Madhya Pradesh, Interior Karnataka, Marathwada and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Chhattisgarh, Kerala and Mahe, Konkan & Goa, Madhya Maharashtra, Rayalaseema, Telangana, West Bengal & Sikkim and West Madhya Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Assam & Meghalaya and Coastal Andhra Pradesh.
- ❖ **Heat Wave condition** very likely at isolated places over Bihar, Jharkhand, Odisha and West Bengal & Sikkim.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast, over Gulf of Mannar and adjoining Comorin area.



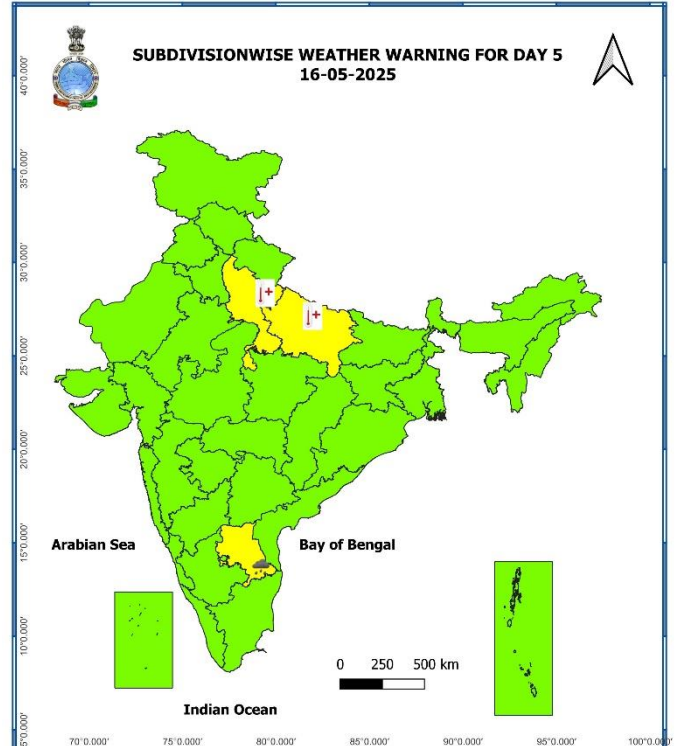
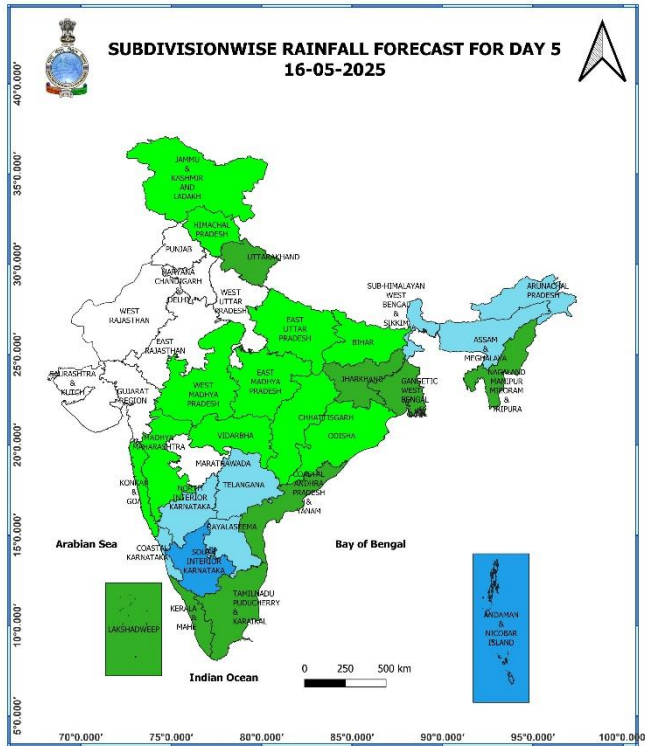
14th May (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Heavy Rain** likely at isolated places over Andaman & Nicobar Islands, Interior Karnataka, Nagaland, Manipur, Mizoram and Tripura, Rayalaseema, Sub Himalayan West Bengal & Sikkim and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Coastal Karnataka and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Interior Karnataka and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya, Kerala and Mahe, Madhya Maharashtra, Rayalaseema and West Bengal & Sikkim.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Chhattisgarh, Coastal Andhra Pradesh and Telangana.
- ❖ **Heat Wave condition** likely at isolated places over Bihar, East Uttar Pradesh, Jharkhand, Odisha and West Bengal & Sikkim.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast, over Gulf of Mannar and adjoining Comorin area.



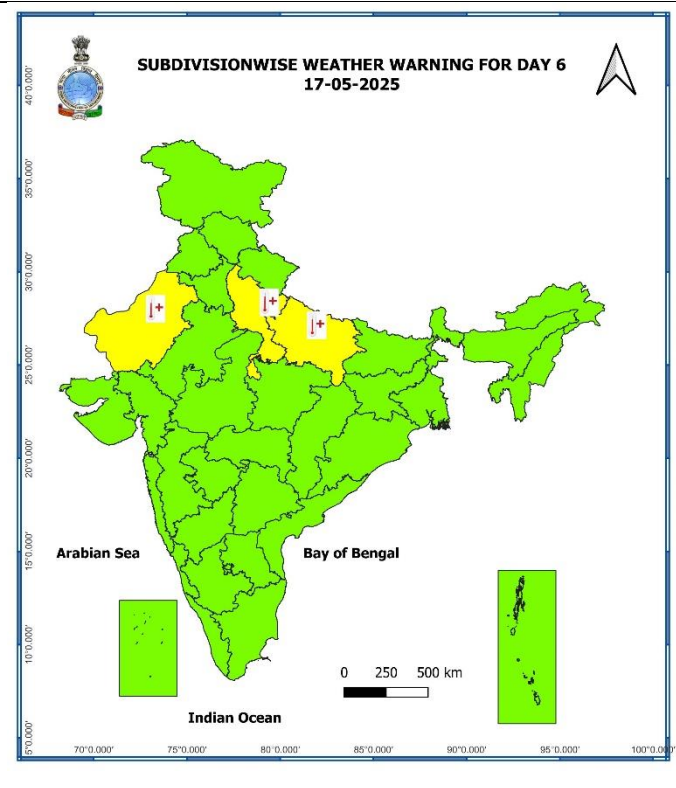
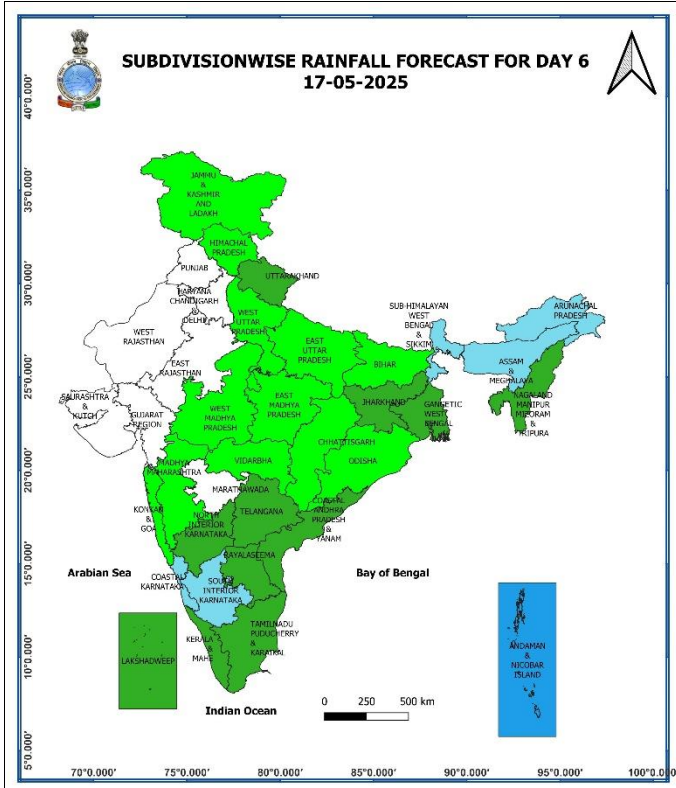
15th May (Day 4)

- ❖ **Heavy Rain** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Costal Karnataka and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andaman & Nicobar Islands, Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Tamilnadu & Puducherry.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Bihar, Gangetic West Bengal, Jharkhand, Kerala and Mahe and Madhya Maharashtra.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Chhattisgarh and Telangana.
- ❖ **Heat Wave condition** likely at isolated places over Odisha and Uttar Pradesh.
- ❖ **Squally wind with speed 45 kmph to 50 kmph gusting to 55 kmph** likely to prevail along and off Somalia coast, over Gulf of Mannar and adjoining Comorin area.



16th May (Day 5)

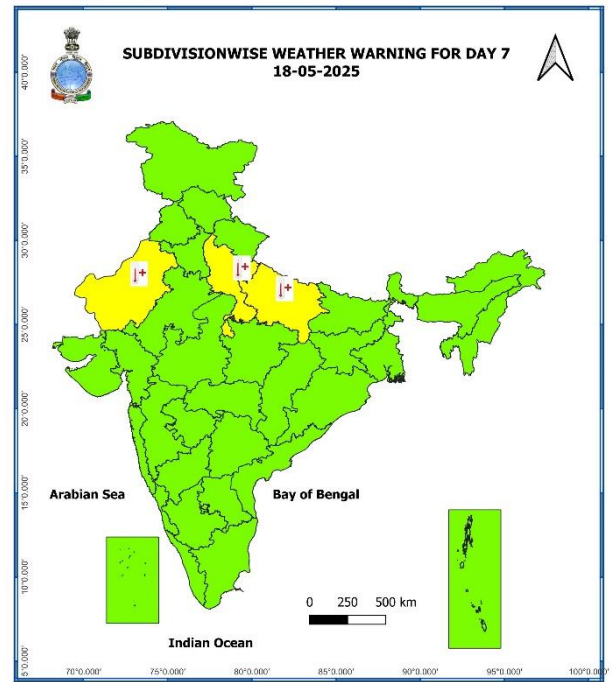
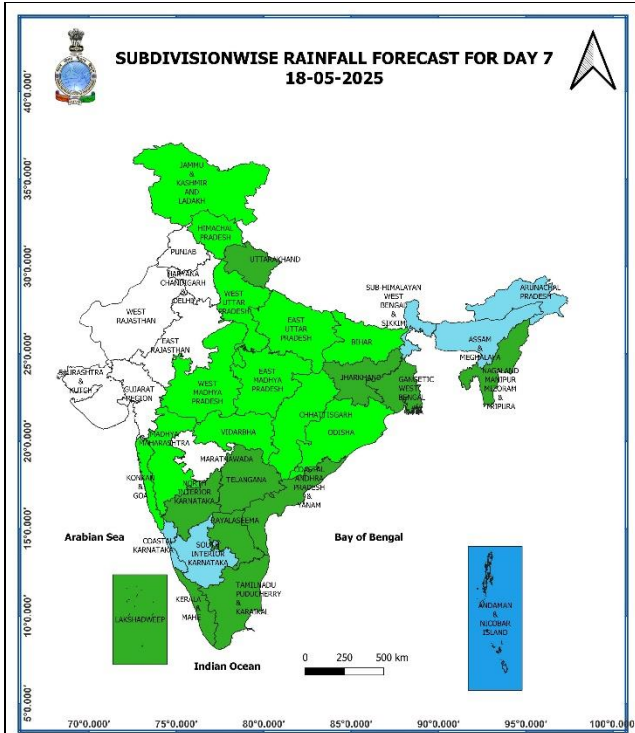
- ❖ Heavy Rainfall likely at isolated places over Rayalaseema.
- ❖ Heat Wave likely at isolated places over Uttar Pradesh.



17th May (Day 6)

❖ **Heat Wave** likely at isolated places over Uttar Pradesh and West Rajasthan.

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18th May (Day 7)

- ❖ **Heat Wave** likely at isolated places over Uttar Pradesh and West Rajasthan.

Weather Outlook for subsequent 3 days (During 19th May- 21st May, 2025)

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

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

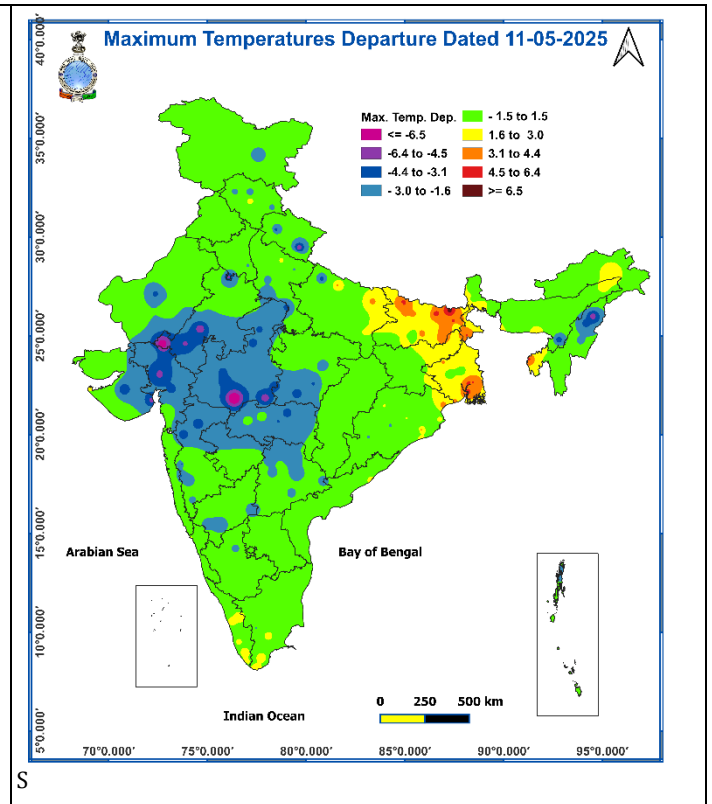
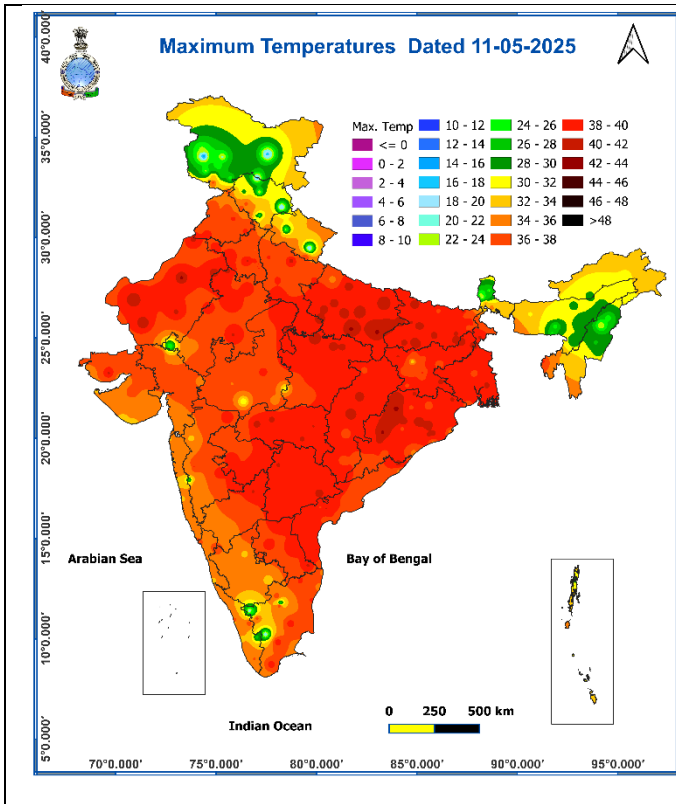


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

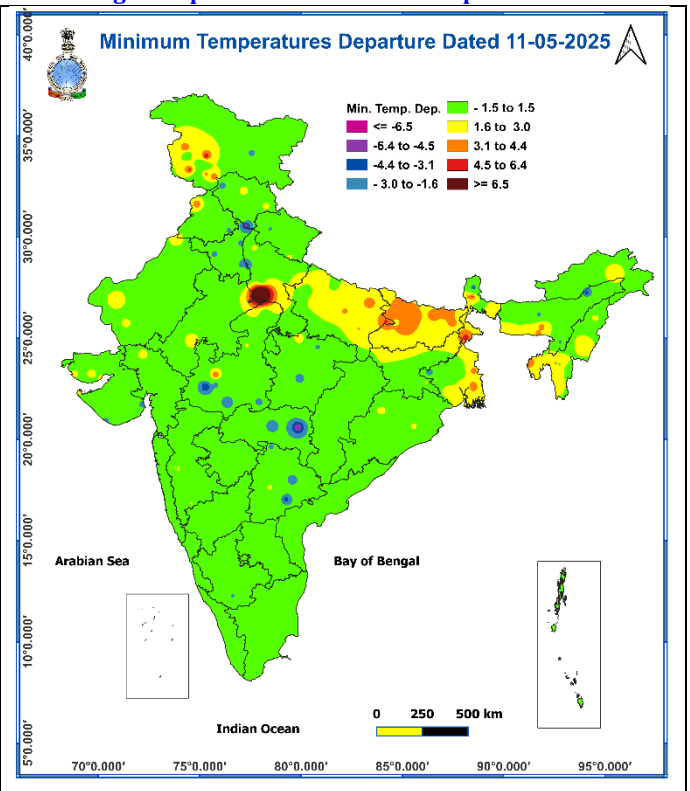
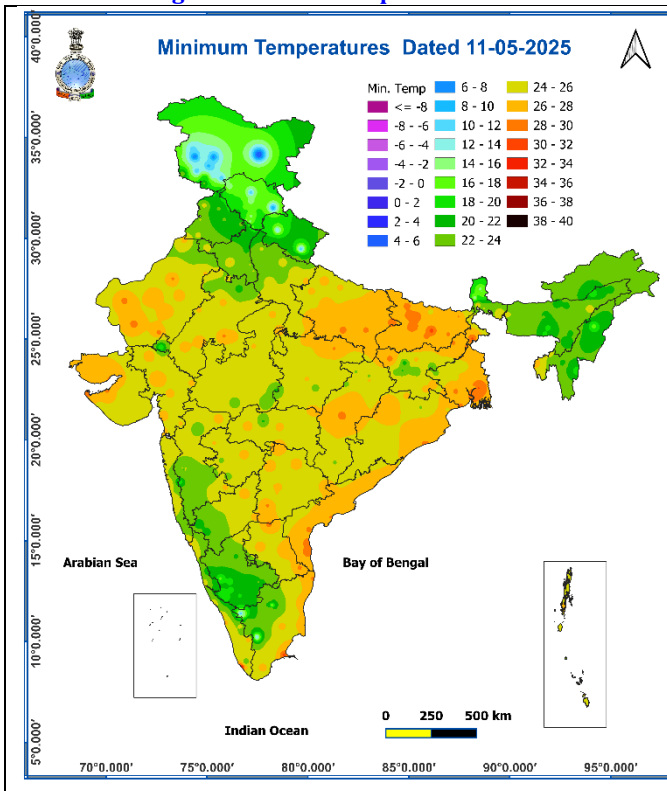
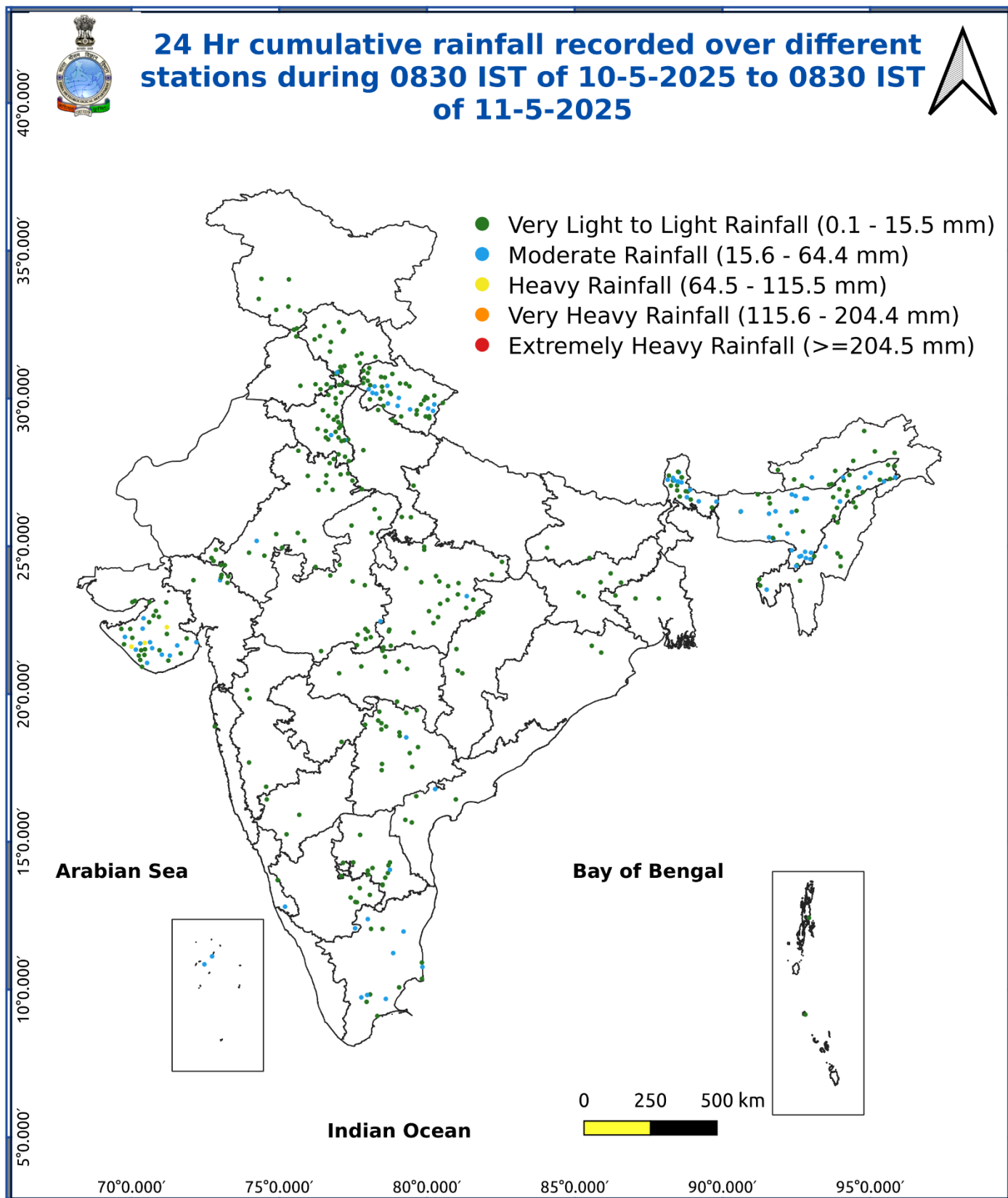


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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Impact & Action Suggested due to heavy to very heavy rainfall over

- ✓ **Extremely heavy rainfall** at isolated places over Meghalaya on 13th May.
- ❖ **Isolated heavy rainfall** over Arunachal Pradesh, Assam & Meghalaya during 12th-15th and over Nagaland, Manipur, Mizoram & Tripura during 12th-14th with isolated **very heavy rainfall** over Arunachal Pradesh, Assam & Meghalaya on 13th-14th May and **Isolated heavy rainfall** likely over Nicobar on 13th & 14th; Sub-Himalayan West Bengal & Sikkim during 12th-15th with **isolated very heavy rainfall** on Sub-Himalayan West Bengal & Sikkim on 12th May.

Impact Expected

- ❖ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ❖ Minor damage to kutcha roads.
- ❖ Possibilities of damage to vulnerable structure.
- ❖ Localized Landslides/Mudslides
- ❖ Damage to horticulture and standing crops in some areas due to inundation.
- ❖ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

Action Suggested

- ❖ Check for traffic congestion on your route before leaving for your destination.
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.

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

- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** over Sub-Himalayan West Bengal & Sikkim on 12th; Chhattisgarh, Telangana on 14th & 15th May. Coastal Andhra Pradesh & Yanam on 13th & 14th 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 Sub-Himalayan West Bengal, Bihar during 12th-14th; Gangetic West Bengal during 12th-15th; Jharkhand on 13th & 14th; north coastal Odisha during 13th-15th; West Uttar Pradesh during 15th-17th; East Uttar Pradesh during 14th-17th and West Rajasthan on 17th May.

Yellow alert Areas

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

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

- In **Tamil Nadu, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim** and **North Eastern States**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Meghalaya**, use hail nets and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- 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.
- 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.

Livestock / Poultry / Fishery

- Keep the animals inside the shed during heavy rainfall 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.
- 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.

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)