

Thursday, May 8, 2025
Time of Issue: 0850 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Forecast and Warnings:

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; **Isolated to Scattered** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph** over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan during 08th-11th May.
- ✓ **Isolated hailstorm** very likely over Uttarakhand on 08th May.
- ✓ **Duststorm** very likely at isolated places over West Rajasthan during 08th-11th May.

West India:

- ❖ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Konkan & Goa, Marathwada on 08th; Madhya Maharashtra and Gujarat State during 08th-11th May.
- ❖ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Gujarat State on 08th; **Isolated heavy rainfall** likely over Gujarat State on 08th May.

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 Madhya Pradesh, Vidarbha & Chhattisgarh during 08th-11th May; **with winds speed reaching 30-40 kmph gusting to 50 kmph** over Sub-Himalayan West Bengal & Sikkim, Odisha on 08th May.
- ❖ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over West Madhya Pradesh on 08th; East Madhya Pradesh during 08th-10th and Vidarbha & Chhattisgarh on 09th & 10th May.
- ❖ **Isolated hailstorm** activity likely West Madhya Pradesh on 08th May.
- ❖ **Isolated heavy rainfall** likely over Nicobar, Sub-Himalayan West Bengal & Sikkim on 11th 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 during 08th-09th, Coastal Andhra Pradesh & Yanam, Rayalaseema & Telangana during 08th-11th 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 during 09th-11th; Assam & Meghalaya during 10th & 11th May.

Temperature Forecast:

- ❖ Gradual rise in maximum temperatures by 3-5°C likely over East India during next 2 days and no significant change thereafter for subsequent 4 days.
- ❖ Gradual rise in maximum temperatures by 3-5°C likely over Northwest India during next 7 days.
- ❖ No significant change in maximum temperatures likely over Central & West India during next 2 days and rise by 2-3°C thereafter for subsequent 3 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 & Sikkim on 10th & 11th; Gangetic West Bengal during 08th-13th; Odisha during 09th-13th; Bihar & Jharkhand during 10th-13th May.
- ❖ **Hot & humid weather** is likely to prevail over Odisha on 08th; Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe on 08th 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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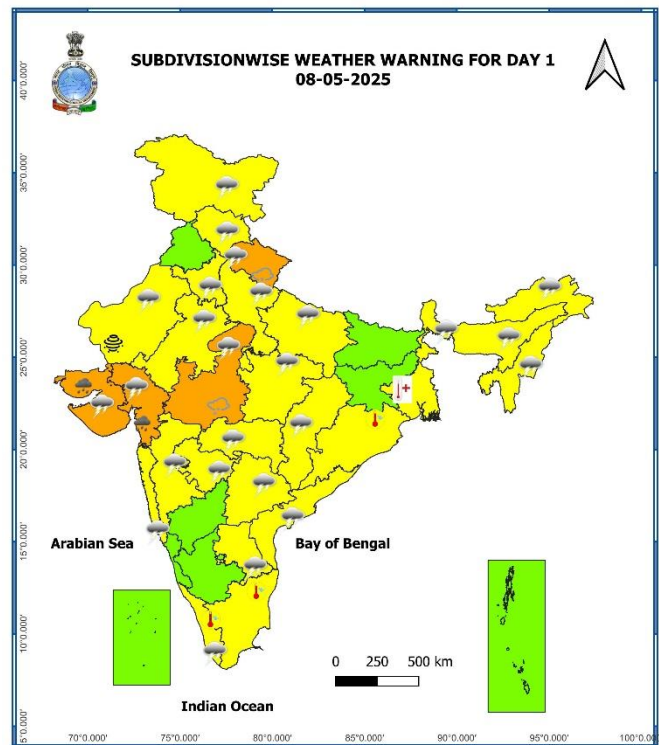
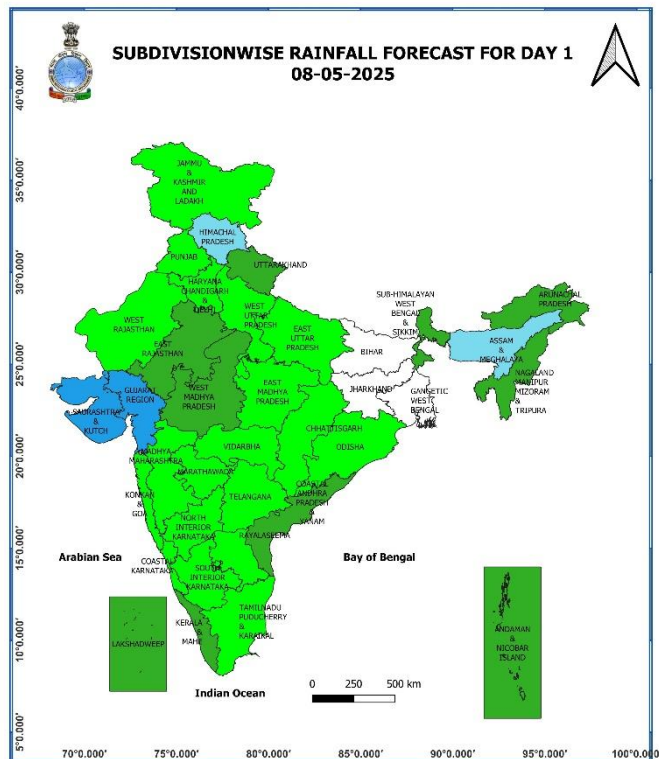
Main Weather Observations:

- ❖ **Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Jharkhand, Bihar, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Haryana Chandigarh & Delhi, Punjab, Himachal Pradesh, Rajasthan, Madhya Pradesh, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Tamilnadu Puducherry & Karaikal and Kerala & Mahe; Dry over rest of the country.
- ❖ **Significant amount of rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday)(in cm): **Gujarat region:** Vallabh Vidyanagar (dist Anand) 3, Baroda AP (dist Vadodara), Surendranagar (dist Surendranagar) 2 Each; ; **Saurashtra & kutch:** Keshod AP (dist Junagadh) 4, Bhavnagar AP (dist Bhavnagar), Daman (dist Daman) 3 Each; ; **Konkan & goa :** Dahanu (dist Palghar) 3, Mumbai (santacruz) AP (dist), T.b.i.a (dist Thane) 2 Each; **Coastal Andhra Pradesh & Yanam:** Machilipatnam (dist Krishna) 2; Tamilnadu puducherry & karaikal: Periakulam (dist Theni) 4.
- ❖ **Minimum Temperature Departures (as on 07-05-2025):** Minimum temperatures were **markedly above normal (5.1 or more)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **above normal (1.6°C to 3.0°C)** at isolated places over Saurashtra & Kutch, South Interior Karnataka, Kerala & Mahe, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh. These were **markedly below normal (-5.1 or below)** at a few places over Gujarat Region, West Madhya Pradesh; at isolated places over East Rajasthan, Vidarbha, Telangana; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Konkan & Goa, Madhya Maharashtra; **below normal (-1.6°C to -3.0°C)** at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over West Rajasthan, Haryana-Chandigarh-Delhi, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Jharkhand, Bihar, Odisha, Rayalaseema and normal over rest parts of the country (**Fig. 4**). Yesterday, the **lowest minimum temperature of 18.0°C** was reported at **Rajgarh (West Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 07-05-2025):** Maximum Temperatures were **appreciably above normal (-3.1°C to -5.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Odisha, Konkan & Goa, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. These were **markedly below normal (-5.1 or below)** at many places over West Madhya Pradesh and Gujarat Region; at a few places over East Rajasthan and Madhya Maharashtra; at isolated places over many places over Delhi, East Uttar Pradesh, West Rajasthan and Vidarbha; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Punjab, East Madhya Pradesh and Punjab; at a few places over Himachal Pradesh; at isolated places over Haryana, West Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over Chhattisgarh, Jharkhand; at a few places over Bihar; isolated places over Telangana and Rayalaseema and normal over rest parts of the country (**Fig. 2**). Yesterday, the highest **maximum temperature of 41.0°C** was reported at **Sambalpur (Odisha)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

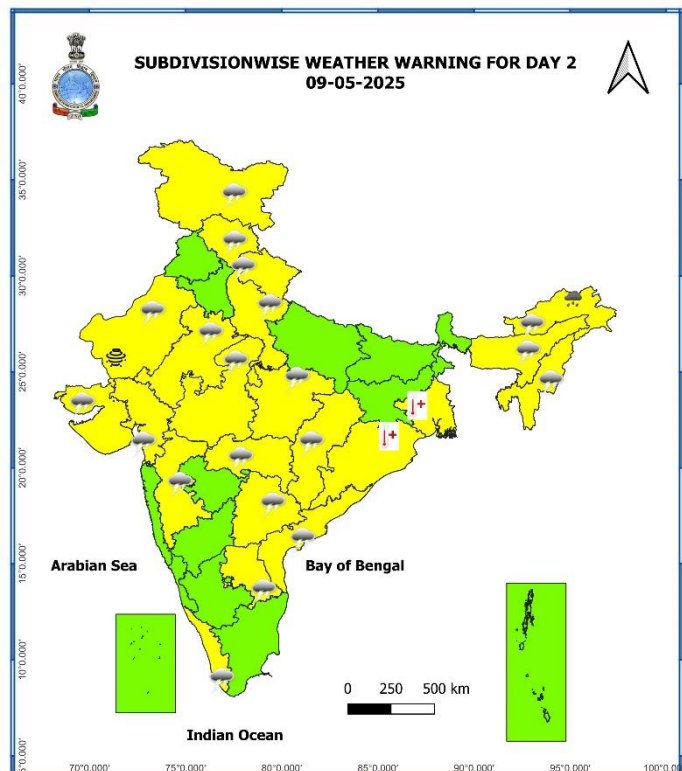
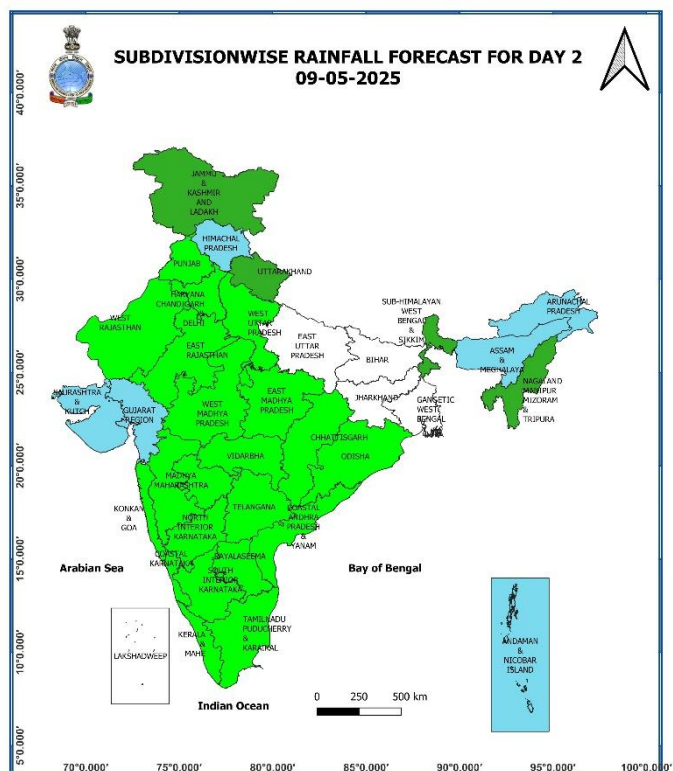
- ❖ The **Western Disturbance** as a cyclonic circulation over West Madhya Pradesh & neighbourhood between 1.5 & 7.6 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over northwest Madhya Pradesh & neighbourhood at a 0.9 km above mean sea level persists.
- ❖ The east-west **trough** from southwest Rajasthan to north Jharkhand now runs from **cyclonic circulation** over northwest Madhya Pradesh & neighbourhood to north Chhattisgarh across East Madhya Pradesh at 0.9 km above mean sea level.
- ❖ The **trough** from northeast Arabian sea to cyclonic circulation over West Madhya Pradesh now runs from south Konkan to West Madhya Pradesh across Gujarat region between 1.5 & 7.6 km above mean sea level.
- ❖ The **north- south trough** from south Telangana to Gulf of Mannar across Rayalaseema and Tamil Nadu at 0.9 km above mean sea level persists.
- ❖ The upper air **cyclonic circulation** over Northeast Assam & neighbourhood persists at 0.9 km above mean sea level persists.
- ❖ The **upper air cyclonic circulation** over southeast Bay of Bengal and adjoining south Andaman Sea between 3.1 & 5.8 km above mean sea levels 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.
- ❖ The **Western Disturbance** seen as trough in middle and upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 55°E to the north of Lat. 35°N.
- ❖ The **trough** in upper tropospheric westerlies with its axis at 3.1 km above mean sea level roughly along Long. 93°E to the north of Lat. 23°N has become less marked.

Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 14th May, 2025)



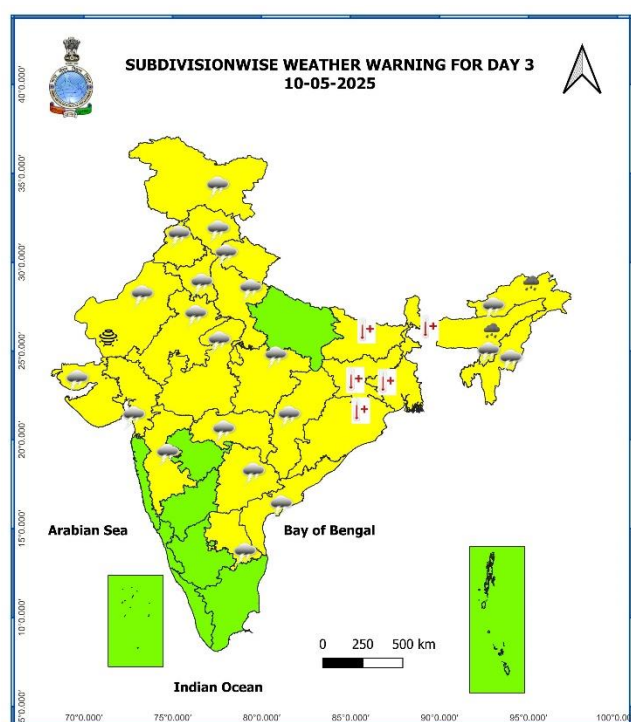
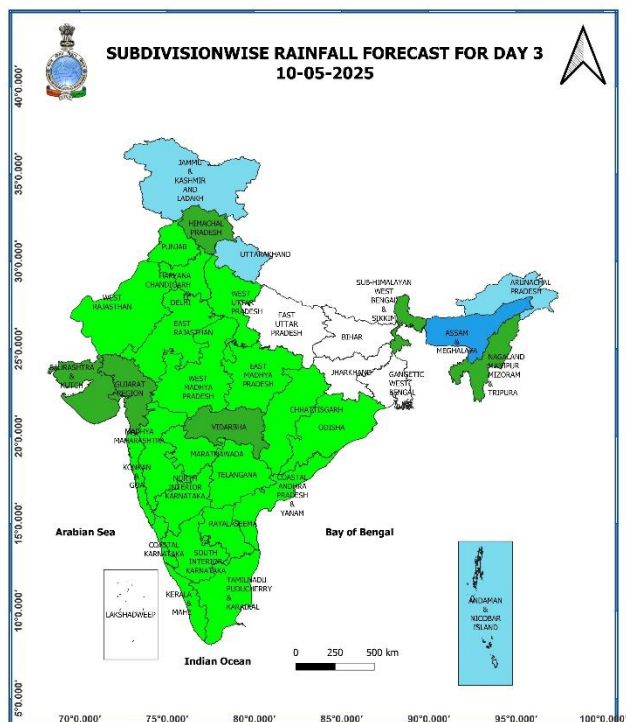
08th May (Day 1)

- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Gujarat and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh, East Madhya Pradesh, Himachal Pradesh, Jammu and Kashmir and Ladakh, Madhya Maharashtra, Marathwada, Rajasthan and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Chhattisgarh, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Kerala and Mahe, Konkan & Goa, Nagaland, Manipur, Mizoram and Tripura, Telangana and Vidarbha.
- ❖ **Heavy Rainfall** very likely at isolated places over Gujarat.
- ❖ **Hot and Humid** very likely at isolated places over Kerala and Mahe, Odisha and Tamilnadu & Puducherry.
- ❖ **Heat Wave** very likely at isolated places over Gangetic West Bengal.
- ❖ **Dust Storm** very likely at isolated places over West Rajasthan.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Uttarakhand and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Chhattisgarh, East Madhya Pradesh, Himachal Pradesh, Kerala and Mahe, Konkan & Goa, Maharashtra, Rajasthan, Saurashtra & Kutch, Sub Himalayan West Bengal & Sikkim, Telangana and West Uttar Pradesh.



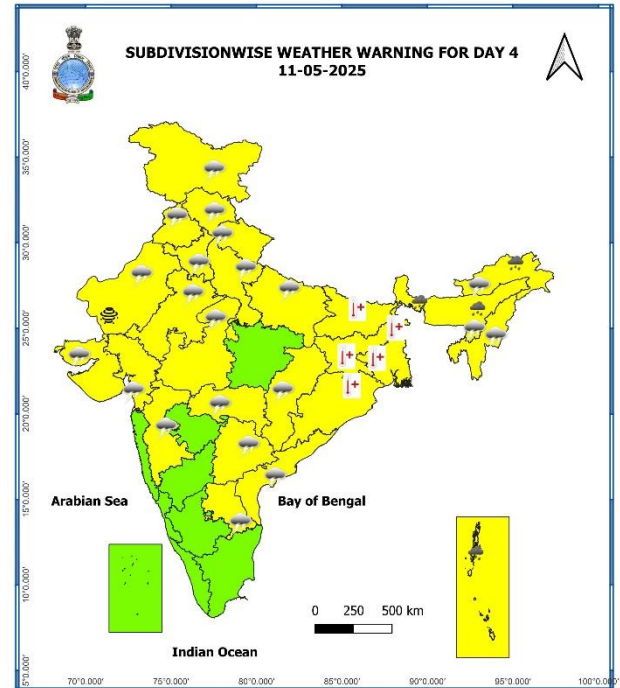
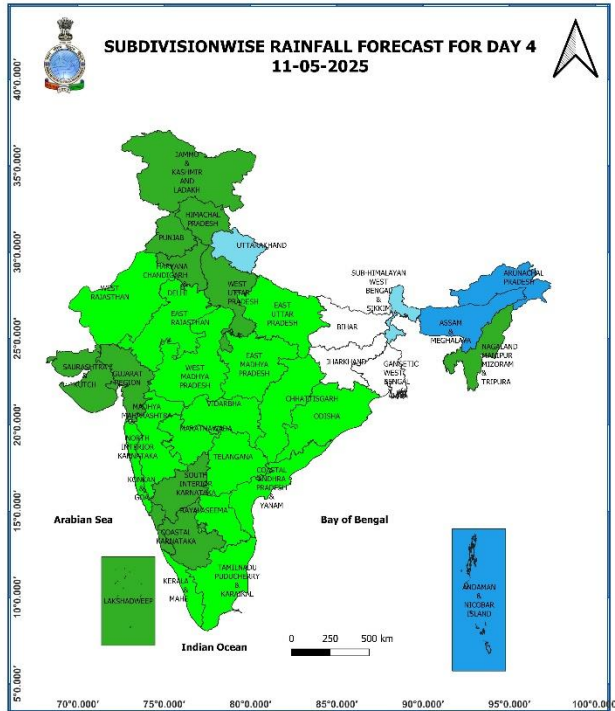
09th May (Day 2)

- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Chhattisgarh, East Madhya Pradesh and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh, Gujarat, Himachal Pradesh, Jammu and Kashmir and Ladakh and Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Madhya Maharashtra, Telangana, Uttarakhand and West Madhya Pradesh.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Heat Wave** very likely at isolated places over Gangetic West Bengal and Odisha.
- ❖ **Dust Storm** very likely at isolated places over West Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Chhattisgarh, East Madhya Pradesh, Himachal Pradesh, Kerala and Mahe, Madhya Maharashtra, Nagaland, Manipur, Mizoram and Tripura, Rajasthan, Saurashtra & Kutch, Telangana, Vidarbha and West Uttar Pradesh.



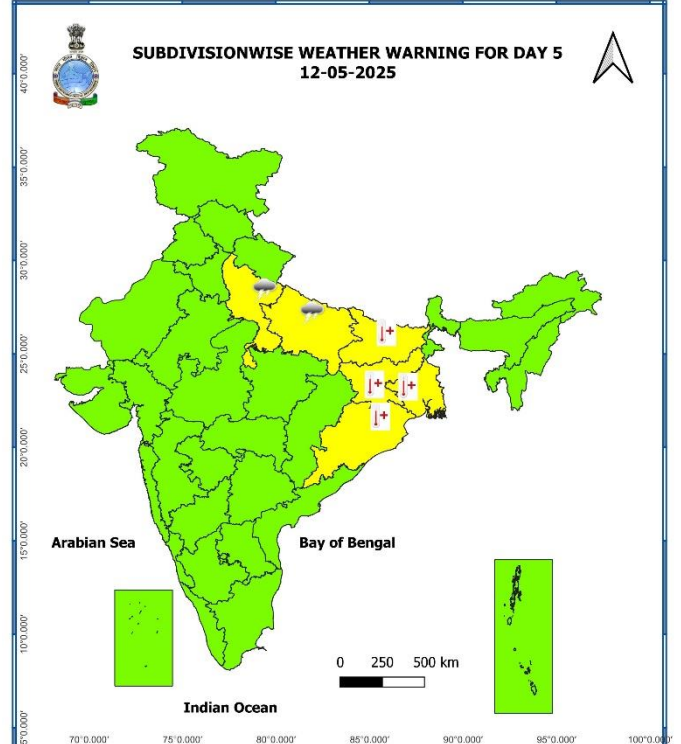
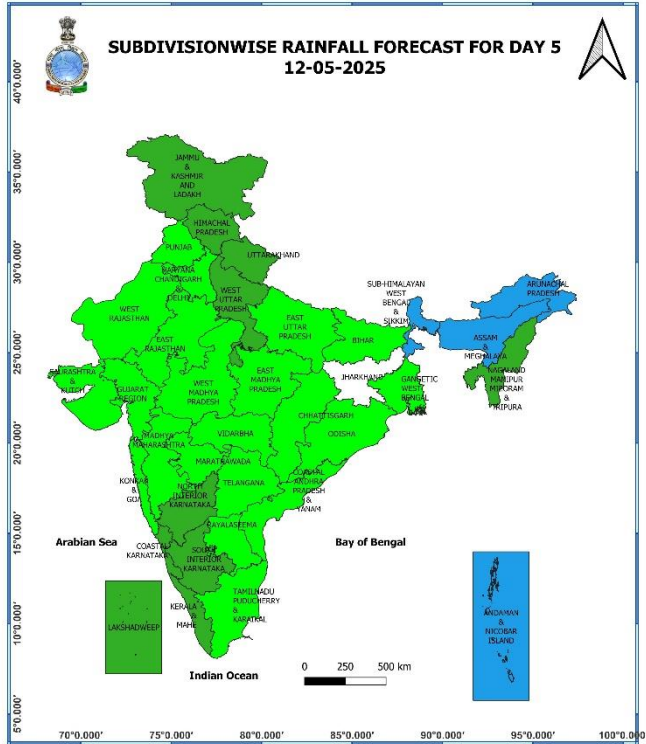
10th May (Day 3)

- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Chhattisgarh, East Madhya Pradesh and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Gujarat, Jammu and Kashmir and Ladakh and Rajasthan.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Haryana, Chandigarh & Delhi, Himachal Pradesh, Madhya Maharashtra, Punjab, Telangana, Uttarakhand and West Madhya Pradesh.
- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Heat Wave** likely at isolated places over Bihar, Jharkhand, Odisha and West Bengal & Sikkim.
- ❖ **Dust Storm** likely at isolated places over West Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Chhattisgarh, East Madhya Pradesh, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Rajasthan, Telangana, Vidarbha and West Uttar Pradesh.



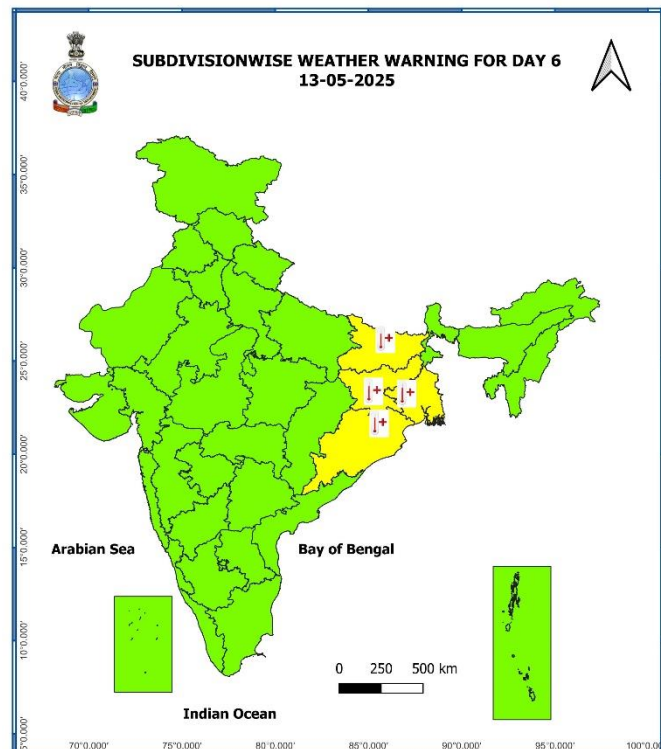
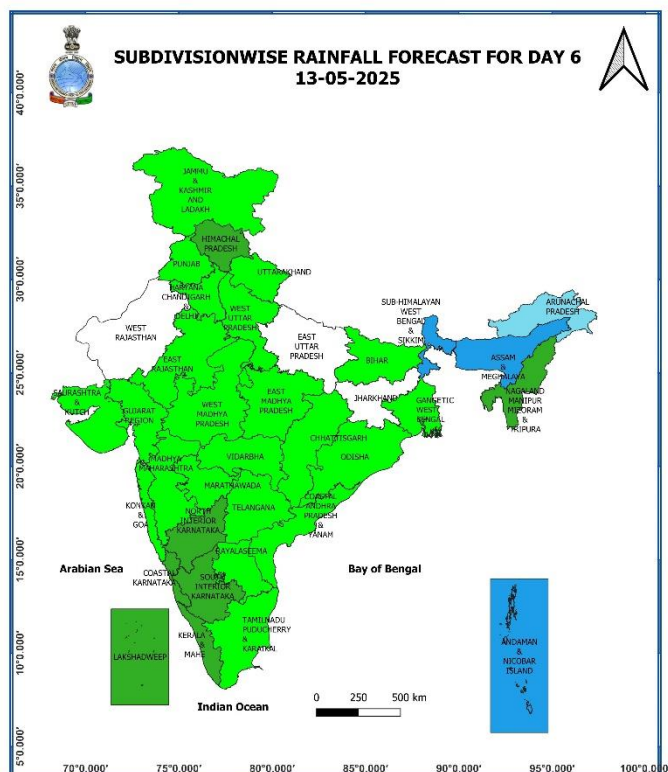
11th May (Day 4)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh, Jammu and Kashmir and Ladakh, Rajasthan and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Gujarat, Haryana, Chandigarh & Delhi, Himachal Pradesh, Madhya Maharashtra, Punjab, Telangana, Uttar Pradesh, Uttarakhand and West Madhya Pradesh.
- ❖ **Heat Wave** likely at isolated places over Bihar, Jharkhand, Odisha and West Bengal & Sikkim.
- ❖ **Dust Storm** likely at isolated places over West Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Himachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Rajasthan and Vidarbha.
- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim.



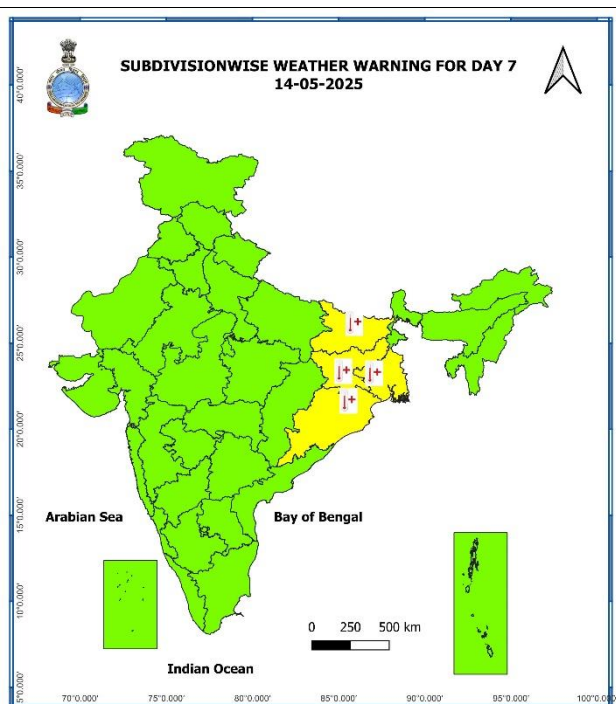
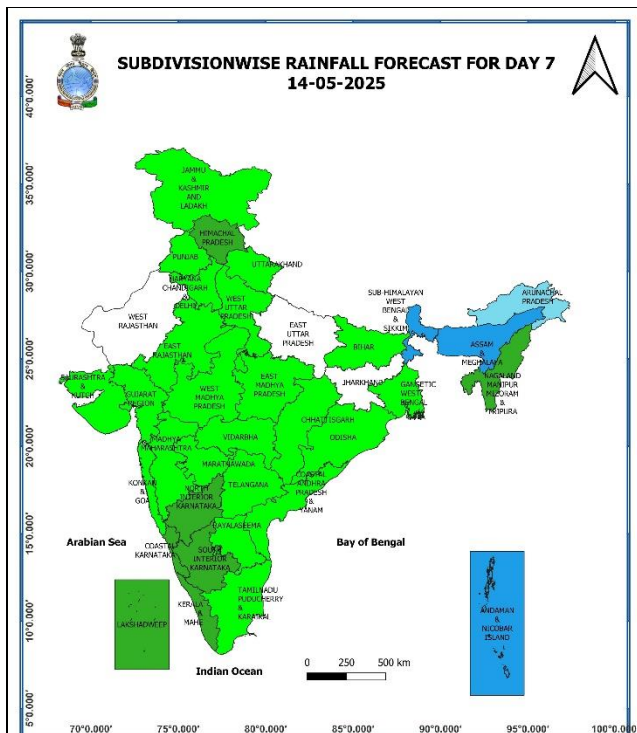
12th May (Day 5)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Uttar Pradesh.
- ❖ **Heat Wave** likely at isolated places over Bihar, Gangetic West Bengal, Jharkhand and Odisha.



13th May (Day 6)

❖ **Heat Wave** likely at isolated places over Bihar, Gangetic West Bengal, Jharkhand and Odisha.



14th May (Day 7)

❖ **Heat Wave** likely at isolated places over Bihar, Gangetic West Bengal, Jharkhand and Odisha.

Weather Outlook for subsequent 3 days (During 15th May- 17th 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

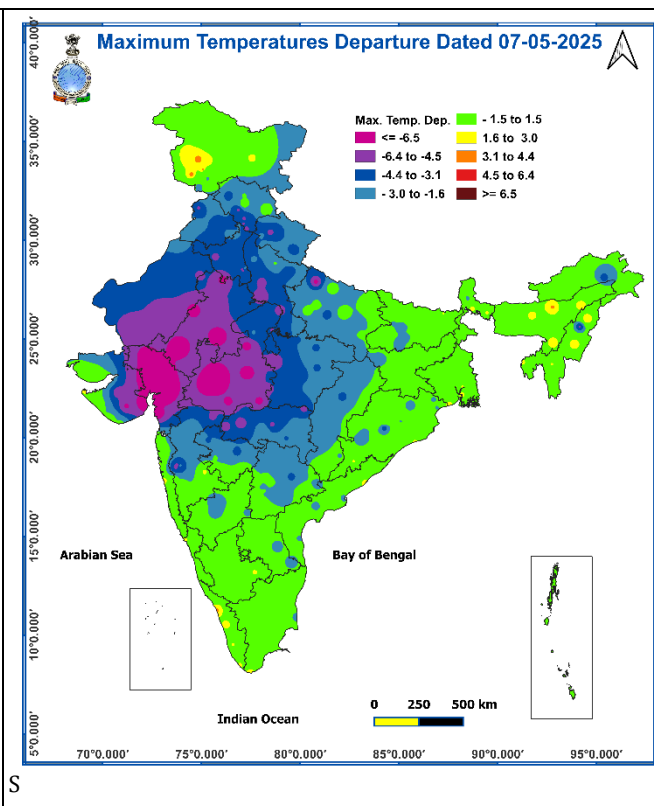
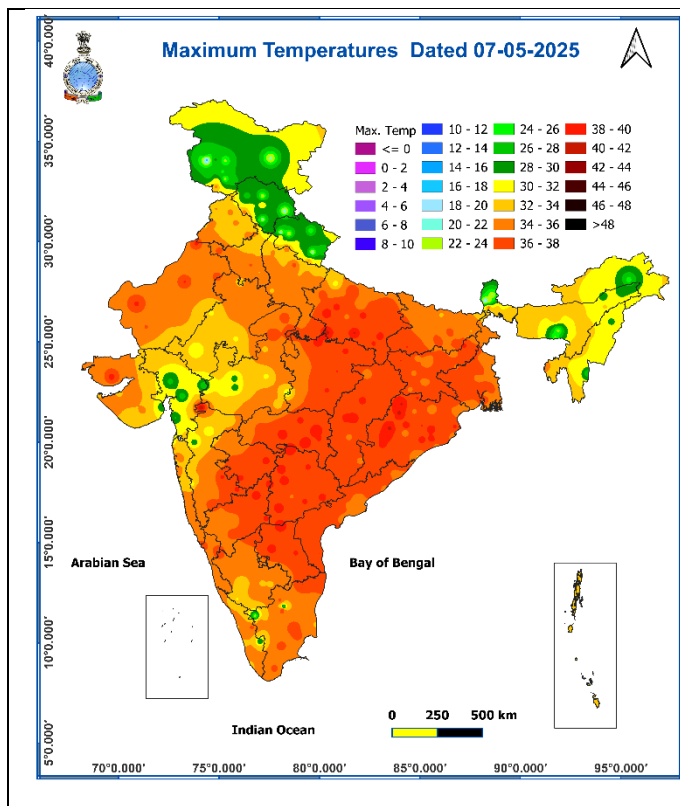


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

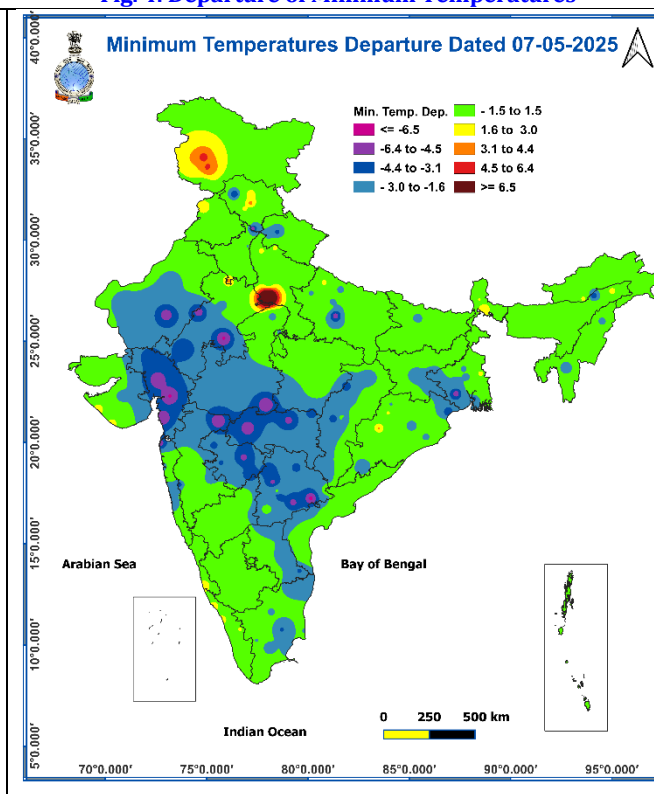
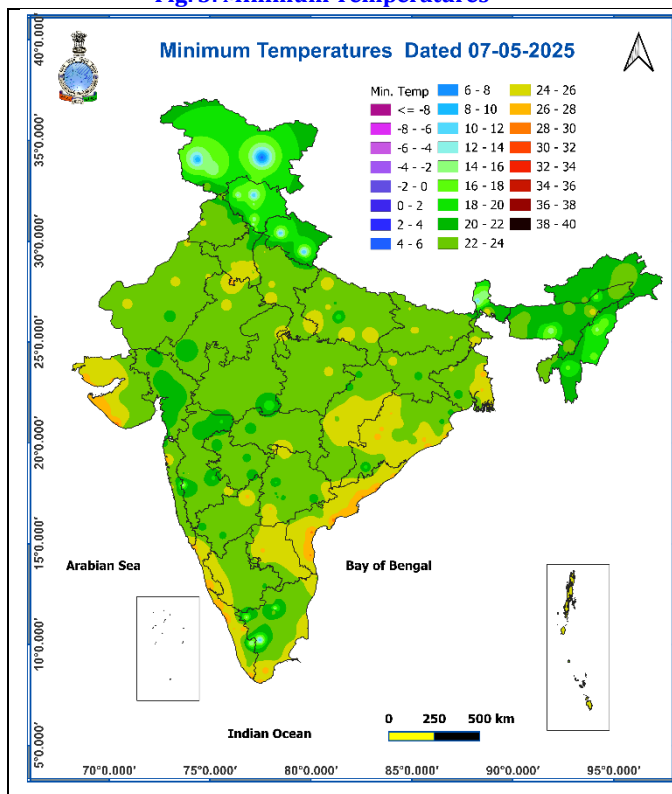
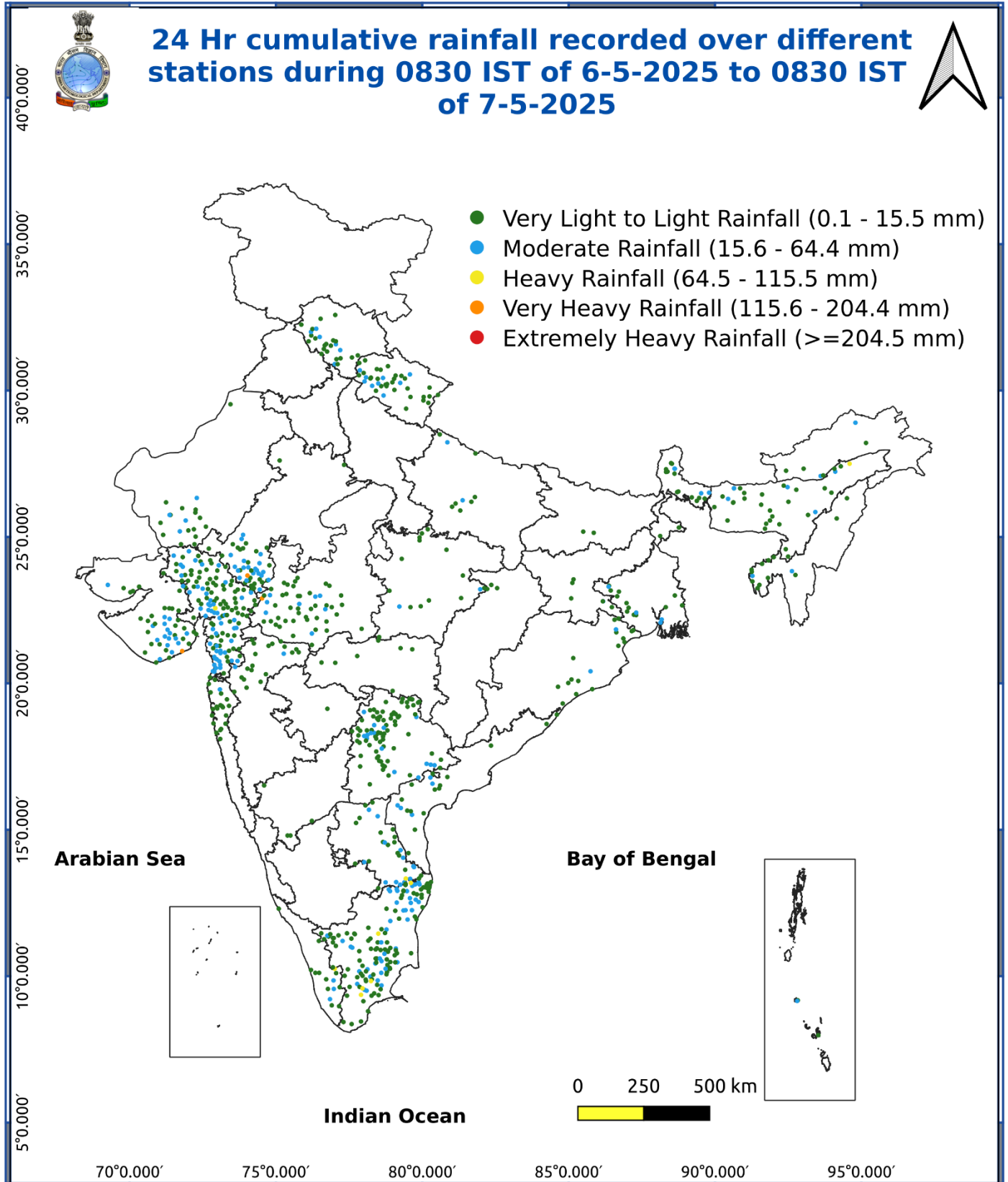


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".
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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 gusting to 70 kmph** over Gujarat State, West Madhya Pradesh on 08th; East Madhya Pradesh during 08th -10th and Vidarbha & Chhattisgarh on 09th & 10th May.
- ✓ **Isolated hailstorm** activity over West Madhya Pradesh & Uttarakhand on 08th 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 & Action Suggested due to heavy rainfall over Saurashtra & Kutch on 08th 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 Heat wave conditions over Sub-Himalayan West Bengal & Sikkim on 10th & 11th; Gangetic West Bengal during 08th-13th; Odisha during 09th-13th; Bihar & Jharkhand during 10th-13th May.

Yellow alert Areas

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

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

- In **Arunachal Pradesh, Assam & Meghalaya, Uttarakhand, East Rajasthan, West Madhya Pradesh, Konkan, Gujarat and Tamil Nadu**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Uttarakhand, Sikkim, Madhya Pradesh, Madhya Maharashtra and Marathwada**, 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.
- 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.
- 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.
- 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.

Flash Flood Guidance

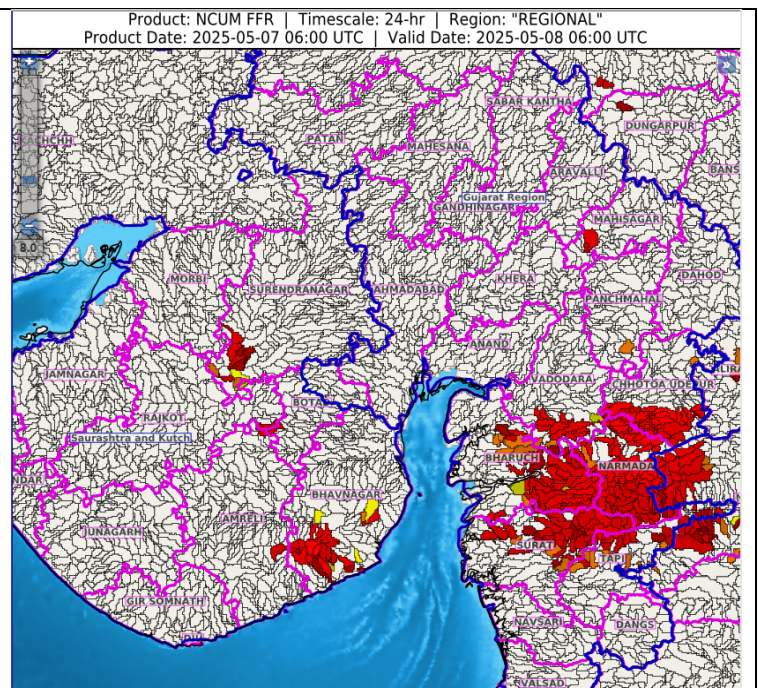
24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 08-05-2025 :

Low flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

Gujarat Region - Bharuch, Chhota Udepur, Narmada, Surat, Tapi and Vadodara districts.

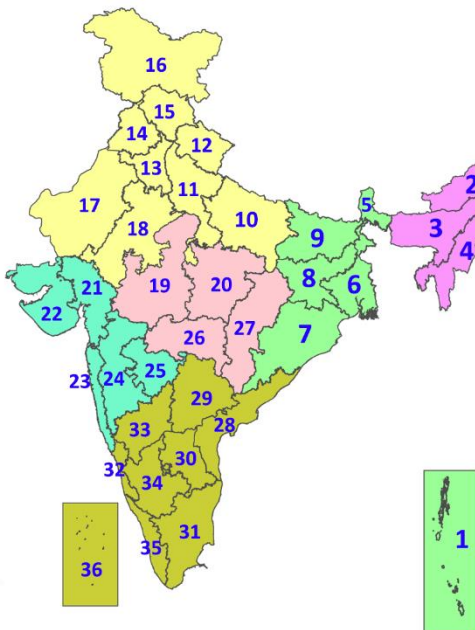
Saurashtra & Kutch - Amreli, Bhavnagar and Surendranagar districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.



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

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

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

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

(Service to the Nation since 1875)

DEFINITION/CRITERIA

Rain/ Snow *

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *

Heat Wave

When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .

Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$

Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$.

Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.
(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$

Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres

Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)

Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.

Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)

Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph

Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre

Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Strom: Wind speed > 220 kmph (> 119 knots)