



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Wednesday, April 9, 2025 Time of Issue: 1345 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

- The Well-Marked Low-pressure area over westcentral & adjoining southwest Bay of Bengal persists over the same region at 0830 hrs IST of today, the 09th April, 2025 with the associated cyclonic circulation extending upto middle tropospheric levels. It is likely to move nearly northwards during next 12 hours over westcentral Bay of Bengal, maintaining the intensity of well marked low pressure area. Thereafter, it is likely to recurve north-northeastwards and weaken gradually over central Bay of Bengal during subsequent 24 hours.
- ❖ A trough runs from the above cyclonic circulation over westcentral Bay of Bengal to south Tamil Nadu in lower tropospheric levels.
- A trough runs from southeast Madhya Pradesh to east Gangetic West Bengal across Chhattisgarh & Jharkhand in lower tropospheric levels.
- An upper air cyclonic circulation lies over northwest Madhya Pradesh & neighbourhood in lower tropospheric levels.
- Under the influence of these systems;
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Central India during 09th-11th; East and Northeast India during 09th-13th April.
 - ✓ **Isolated Hailstorm** likely over East Madhya Pradesh on 09th and Jharkhand on 10th April.
 - ✓ **Heavy rainfall** very likely at isolated places over Bihar, Arunachal Pradesh on 10th; Sub-Himalayan West Bengal & Sikkim on 10th & 11th; Assam & Meghalaya during 09th-11th April.
- ❖ A fresh Western Disturbance as a trough in westerlies in middle tropospheric levels runs roughly along Long. 61°E to the north of Lat. 28°N. An upper air cyclonic circulation lies over West Rajasthan & neighbourhood and a trough runs from West Rajasthan to northwest Vidarbha in lower tropospheric levels. Under the influence of these systems:
 - Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 40-50 kmph) likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; isolated to scattered rainfall over Himachal Pradesh during 09th-11th and Uttarakhand during 09th-12th April.
 - ✓ Isolated rainfall likely over plains of Northwest India during 09th-11th April.
 - ✓ Isolated Hailstorm likely over Jammu-Kashmir on 09th; Himachal Pradesh on 10th and Uttarakhand on 09th & 10th April.
 - ✓ **Duststorm** very likely at isolated places over West Rajasthan during 09th-11th April.
 - ✓ **Thundersquall (wind speed reaching 50-60 kmph)** very likely at isolated places over Uttarakhand on 10th & 11th April.

Temperature Forecast:

- No significant change in maximum temperatures likely over Northwest India, Gujarat and Maharashtra during next 24 hours and fall by 2-4°C during subsequent 3 days; rise by 2-4°C during subsequent 3 days.
- No significant change in maximum temperatures likely over West India during next 24 hours and fall by 2-4°C during subsequent 4 days.

Heat wave, warm night and Hot & Humid weather warning:

- ❖ **Heat wave conditions** very likely at some/many places over with severe heat wave conditions at isolated pockets over Rajasthan on 09th April and heat wave conditions in isolated pockets on 10th, 14th & 15th April.
- ♦ Heat wave to severe heat wave conditions likely in some parts Punjab, Haryana & Delhi, Saurashtra & Kutch on 09th April and heat wave conditions in isolated pockets of Saurashtra & Kutch on 10th April and over Punjab, Haryana & Delhi on 15th April.
- ❖ Heat wave conditions very likely in isolated pockets of West Uttar Pradesh on 09th; Madhya Pradesh, Gujarat Region on 09th & 10th April.
- ❖ Warm night conditions very likely in isolated pockets of Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Vidarbha, Marathawada, Madhya Maharashtra, Saurashtra & Kutch on 09th; Madhya Pradesh, Rajasthan on 09th &10th April.
- ❖ Hot & humid weather is likely to prevail over Konkan & Goa, Madhya Maharashtra, Marathawada, Tamilnadu Puducherry & Karaikal, Kerala & Mahe on 09th April.



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Main Weather Observations:

- * Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka, Kerala & Mahe; at a few places over Assam & Meghalaya, Arunachal Pradesh, Andaman & Nicobar Islands, Gujarat Region, North Interior Karnataka; at isolated places over Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Marathawada, Madhya Maharashtra, Saurashtra & Kutch, Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and South Interior Karnataka.
- **Heavy rainfall** recorded at isolated places over Tamil Nadu and Bihar.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today): (in cm): Bihar: east Champaran- 9, Sheohar, Supaul, Champaran- 4 each; Tamil Nadu: Taluk Office Pandalur (dist The Nilgiris) 8, Assam & Meghalaya: Manash Nh Xing (dist Barpeta) 6, Gossaigaon_ Aws (dist Kokrajhar) 4, Mazbat Arg (dist Udalguri) 4, Majbat (dist Udalguri) 4; Telangana: Khanapur (dist Warangal) 4, Kothaguda (dist Mahabubabad) 4, Chennaraopet (dist Warangal) 4; Nagaland, Manipur, Mizoram & Tripura: Khawzawl ARG (dist Khawzawl) 3, Teliamura_arg (dist Khowai) 3
- **A Hailstorm** occurred at isolated places over Telangana and Meghalaya.
- Yesterday, Heat wave to severe heat wave conditions prevailed over most parts of West Rajasthan; in some parts of East Rajasthan, Himachal Pradesh; Heat wave conditions prevailed over some parts of Saurashtra & Kutch; in isolated pockets of Punjab, Haryana, Madhya Pradesh, West Uttar Pradesh and Gujarat Region.
- ❖ Warm night conditions prevailed in isolated pockets of south Haryana, Delhi, Rajasthan, Saurashtra & Kutch and West Madhya Pradesh.
- * Minimum Temperature Departures (as on 09-04-2025): Minimum temperatures are markedly above normal (5.1°C or more) at most places over Punjab; at many places over Haryana-Chandigarh-Delhi; at a few places over Rajasthan; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Bihar and West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at isolated places over West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Jharkhand, Marathwada, Vidarbha, Gujarat state and Arunachal Pradesh; above normal (1.6°C to 3.0°C) at a few places over Konkan & Goa, Andaman & Nicobar Islands, Assam & Meghalaya; at isolated places over Madhya Maharashtra, Sub-Himalayan West Bengal & Sikkim, Nagaland & Tripura and Tamil Nadu, Puducherry & Karaikal. These are appreciably below normal (-3.1°C to -5.0°C) at a few places over North Interior Karnataka; at isolated places over Telangana; below normal (-3.0°C to -1.6°C) at a few places over Coastal Andhra Pradesh & Yanam, Rayalaseema and normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 17.7°C is reported at Nahan (Haryana) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 08-04-2025): Maximum Temperatures were markedly above normal (5.1°C or more) at most places over West Rajasthan; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, Assam; at isolated places over Saurashtra & Kutch, West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at a few places over Gujarat Region, Madhya Pradesh, Konkan & Goa; at isolated places over West Uttar Pradesh, Madhya Maharashtra, Vidarbha, Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at isolated places over East Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Gangetic West Bengal, Marathwada, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam. These were below normal (-3.0°C to -1.6°C) at a few places over Andaman & Nicobar Islands; at isolated places over Odisha and near normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 46.4°C was reported at Barmer (West Rajasthan) over the country.





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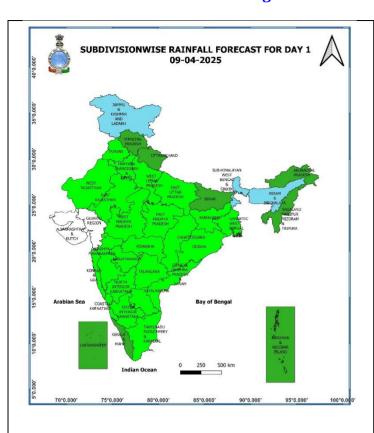
Meteorological Analysis (Based on 0830 hours IST)

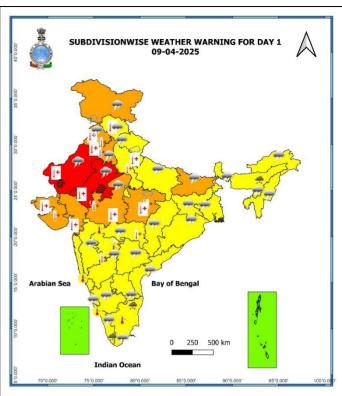
- The **Well-Marked Low**-pressure area over westcentral & adjoining southwest Bay of Bengal persists over the same region at 0830 hrs IST of today, the 09th April, 2025 with the associated cyclonic circulation extending upto middle tropospheric levels. It is likely to move nearly northwards during next 12 hours over westcentral Bay of Bengal, maintaining the intensity of well marked low pressure area. Thereafter, it is likely to recurve north-northeastwards and weaken gradually over central Bay of Bengal during subsequent 24 hours.
- The **trough** now runs from the above cyclonic circulation over westcentral Bay of Bengal to south Tamil Nadu and now extends upto 1.5 km above mean sea level.
- The **Western Disturbance** as a trough in westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 61°E and to the north of Lat. 28°N.
- An upper air **cyclonic circulation** lies over West Rajasthan & neighbourhood at 1.5 km above mean sea level.
- An upper air **cyclonic circulation** lies over northwest Madhya Pradesh & neighbourhood at 1.5 km above mean sea level.
- The **trough** now runs from west Rajasthan to northwest Vidarbha across Madhya Pradesh and extends upto 0.9 km above mean sea level.
- ❖ A **trough** runs from southeast Madhya Pradesh to east Gangetic West Bengal across Chhattisgarh & Jharkhand at 0.9 km above mean sea level.
- The upper air **cyclonic circulation** over northeast Assam & neighbourhood persists and now extends upto 1.5 km above mean sea level.
- The **trough** from southeast Uttar Pradesh to North Bangladesh across Bihar at 0.9 km above mean sea level has become less marked.
- ❖ The upper air **cyclonic circulation** over Madhya Maharashtra & neighbourhood at 0.9 km above mean sea level has become less marked.
- The **trough** from Madhya Maharashtra to south Interior Karnataka across North Interior Karnataka at 0.9 km above mean sea level has become less marked.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 15th April, 2025)



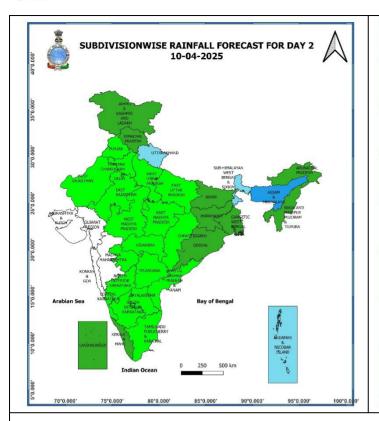


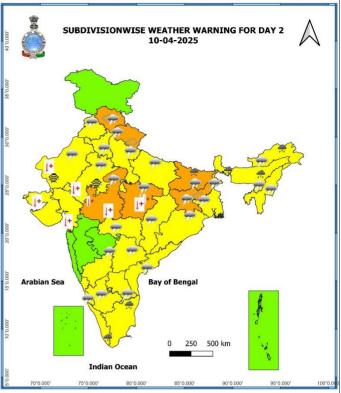
09th April (Day 1):

- **Heavy rainfall** very likely at isolated places over Assam & Meghalaya, Tamil Nadu and Kerala.
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 40 kmph) & hailstorm very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand and East Madhya Pradesh; with lightning & gusty winds (speed reaching 40 - 50 kmph) at isolated places over Rajasthan, Sub-Himalayan West Bengal & Sikkim, Bihar, Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka; with lightning & gusty winds (speed reaching 30 - 40 kmph) at isolated places over Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, Coastal Karnataka & South Interior Karnataka; with lightning at isolated places over Arunachal Pradesh, Madhya Maharashtra and Marathwada.
- **Duststorm** very likely at isolated places over Rajasthan.
- Heat wave at many places with severe heat wave conditions very likely in isolated pockets over Rajasthan; Heat wave to severe Heat wave conditions in some parts of Punjab & Haryana-Chandigarh-Delhi, Saurashtra & Kutch; Heat wave conditions in isolated pockets of West Uttar Pradesh, Madhya Pradesh, Gujarat Region
- Hot and humid weather very likely to prevail in isolated pockets of Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Warm night conditions very likely to prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Madhya Pradesh, Vidarbha, Madhya Maharashtra, Marathwada and Saurashtra & Kutch.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over many parts of westcentral bay of Bengal and adjoining parts. squally wind with wind speed 45 kmph to 50 kmph gusting to 55 kmph to prevail along and off Gujarat and adjoining north Maharashtra coasts. Fishermen are advised not to venture into these areas.



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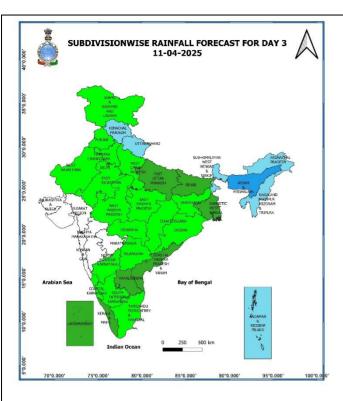


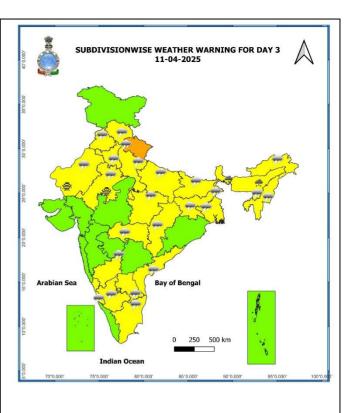
10th April (Day 2):

- Heavy rainfall very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Sub-Himalayan West Bengal & Sikkim, Tamil Nadu and Kerala.
- Thundersquall accompanied with lightning, gusty winds (speed reaching 50 60 kmph) & hailstorm very likely at isolated places over Uttarakhand; Thunderstorm accompanied with lightning, gusty winds (speed reaching 40 50 kmph) & hailstorm at isolated places over Jharkhand; with lightning & gusty winds (speed reaching 30 40 kmph) & hailstorm at isolated places over Himachal Pradesh; with lightning & gusty winds (speed reaching 40 50 kmph) at isolated places over Rajasthan, Vidarbha, West Bengal & Sikkim, Bihar, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and North Interior Karnataka; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Kerala & Mahe, Rayalaseema, Telangana, Coastal Karnataka& South Interior Karnataka; with lightning at isolated places over Arunachal Pradesh.
- ❖ **Duststorm** very likely at isolated places over Rajasthan.
- Heat wave conditions very likely in isolated pockets over Rajasthan, Madhya Pradesh and Gujarat state.
- Warm night conditions very likely to prevail in isolated pockets over Rajasthan and Madhya Pradesh.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over central parts of central bay of Bengal and adjoining areas, over gulf of Mannar; adjoining Comorin area, along and off south Tamil Nadu coast, over southern parts of southwest bay of banal, along and off south Sri Lanka coast. Squally wind with wind speed 45 kmph to 50 kmph gusting to 55 kmph to prevail along and off Gujarat and adjoining north Maharashtra coasts. Fishermen are advised not to venture into these areas.



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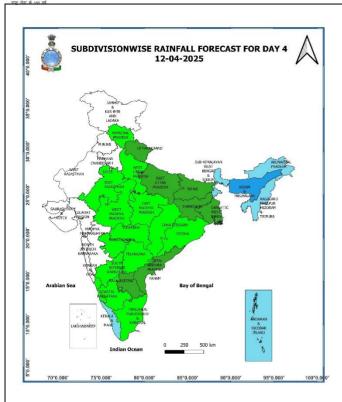


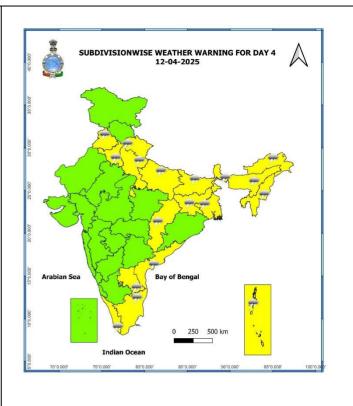
11th April (Day 3):

- Heavy rainfall very likely at isolated places over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim.
- Thundersquall accompanied with lightning, gusty winds (speed reaching 50 60 kmph) very likely at isolated places over Uttarakhand; Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Vidarbha, West Bengal & Sikkim, Bihar, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema, North Interior Karnataka; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Himachal Pradesh, Chhattisgarh, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Karnataka & South Interior Karnataka; with lightning at isolated places over Arunachal Pradesh and Tamil Nadu, Puducherry & Karaikal.
- Duststorm very likely at isolated places over Rajasthan.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over gulf of Mannar; adjoining Comorin area, along and off Tamil Nadu coast, along and off Sri Lanka coast and adjoining southwest bay of Bengal. Squally wind with wind speed 45 kmph to 50 kmph gusting to 55 kmph to along and off Gujarat and adjoining north Maharashtra coasts, along and off Oman coast and adjoining westcentral and northwest Arabian sea. Fishermen are advised not to venture into these areas.



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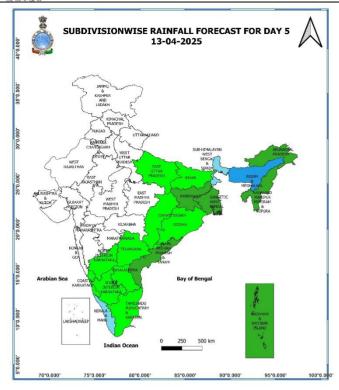


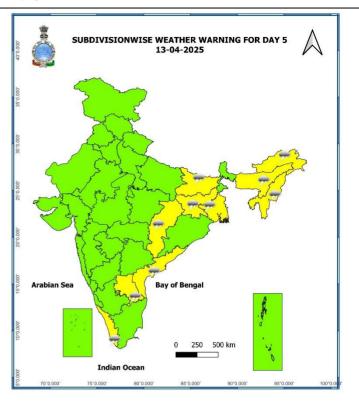
12th April (Day 4):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) likely at isolated places over Uttar Pradesh, West Bengal & Sikkim, Jharkhand, Coastal Andhra Pradesh & Yanam and Rayalaseema; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Uttarakhand, Chhattisgarh, Bihar, Odisha, Assam & Meghalaya, Kerala & Mahe; with lightning at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over gulf of Mannar adjoining Comorin area, along and off Tamil Nadu coast. Squally wind with wind speed 45 kmph to 50 kmph gusting to 55 kmph to prevail along and off Oman coast and adjoining westcentral and northwest Arabian sea. Fishermen are advised not to venture into these areas.



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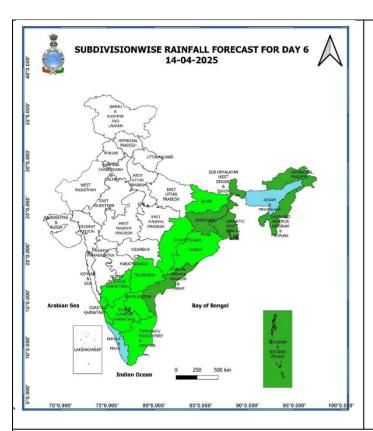


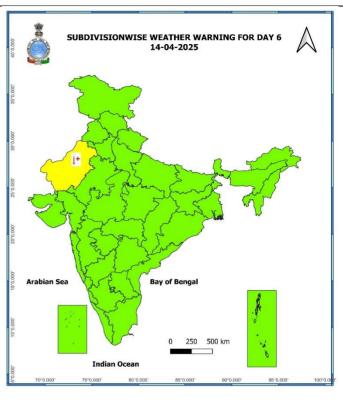
13th April (Day 5):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph) likely at isolated places over Gangetic West Bengal and Jharkhand; with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Chhattisgarh, Bihar, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam; with lightning at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over Gulf of Mannar; adjoining Comorin area. Fishermen are advised not to venture into these areas.



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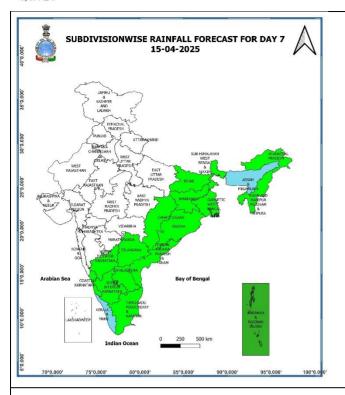


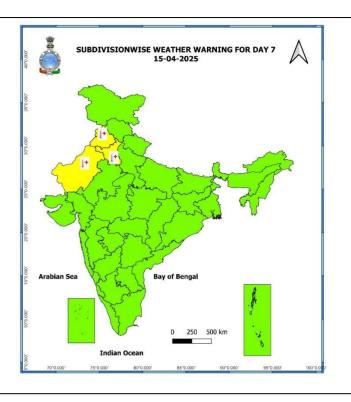
14th April (Day 6):

*** Heat wave conditions** likely in isolated pockets over West Rajasthan.



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15th April (Day 7):

❖ Heat wave conditions likely in isolated pockets over Punjab, Haryana, Delhi and West Rajasthan.

Weather Outlook for subsequent 3 days (During 16th April- 18th April, 2025)

❖ Isolated to scattered rainfall likely over Western Himalayan region, East & Northeast India, south peninsular India.

Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

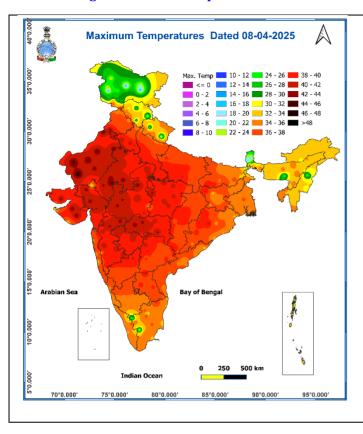
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.





Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures



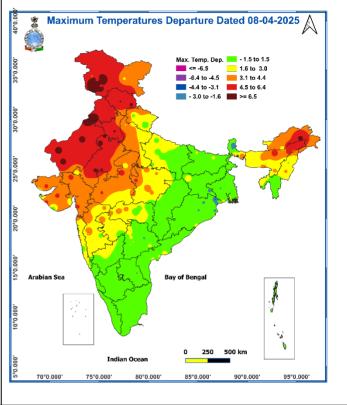


Fig. 3: Minimum Temperatures

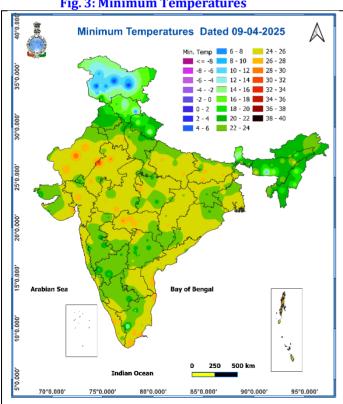
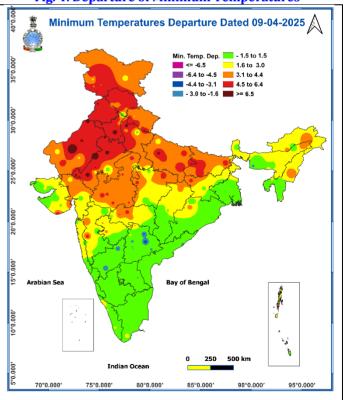


Fig. 4: Departure of Minimum Temperatures







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Impact expected and action suggested due to Heat wave to severe heat wave conditions likely at many parts of Rajasthan and isolated to some pockets over Gujarat state, Punjab, Haryana, Chandigarh & Delhi and Madhya Pradesh on 09th April.

Red alert Areas

- Very high likelihood of developing heat illness and heat stroke in all ages.
- > Extreme care needed for vulnerable people.

Orange alert Areas

- ➤ High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- ➤ High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- ➤ Avoid heat exposure- keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- ➤ Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

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.

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh on 09th; Himachal Pradesh, Jharkhand on 10th; Uttarakhand during 09th-11th April.

Impact expected:

- 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.

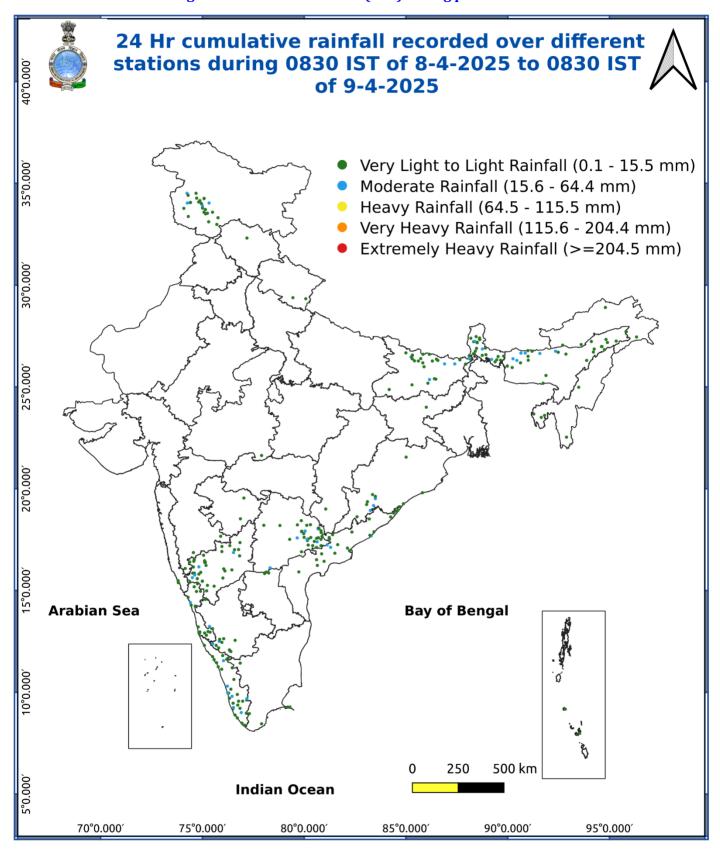
Action suggested:

- 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.





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



30. रायलसीमा

32. तटीय कर्नाटक

35. केरल और माहे

S Dust Raising Winds

36. लक्षद्वीप

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

31. तमिलनाडु, पुडुचेरी और कराईकल

राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



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LEGENDS



- 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. Rihar
- 10. East Uttar Pradesh
- 11. West Uttar Pradesh
- 12. Uttarakhand
- 13. Haryana, Chandigarh & Delhi
- 14. Puniab
- 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

Most Likely

> 75

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)



Strong Surface Winds





	DEFINITION/CRITERIA
	Heavy: 64.5 to 115.5 mm/cm *
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm*
	Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° 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 ≥6.5° C
Heat Wave	(b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C. Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations
	When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
Warm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C
Cold Wave	(b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave: When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	(c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
981	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Fog	Moderate Fog: When the visibility between 500-200 metres
rog	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres
18 8000	very belief rog. when the visibility - 50 medes
hunderstorm	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.
	Ice deposits on ground
Frost	Air temperature ≤4°C (over Plains)
	Paris the Property of the Control of
Savell	A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph
Squall	Severe: Wind speed 62-87 kmph Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area
Sea State	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
	Cuclonic Storm: Wind speed 62.97 kmph /24.47 knots
	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
Cyclone	

Hot and Humid: When maximum temperatures remains 3°C above normal along with the above normal relative humidity.