



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Wednesday, April 23, 2025 Time of Issue: 1330 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

- An upper air cyclonic circulation lies over east Bihar in lower tropospheric levels. A north-south trough runs from north Chhattisgarh to Gulf of Mannar in lower tropospheric levels. An upper air cyclonic circulation lies over northeast Assam and another over south coastal Tamil Nadu in lower tropospheric levels.
- Under the influence of these systems:
 - ✓ Fairly widespread to widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) likely over Northeast India during next 7 days.
 - ✓ **Heavy rainfall** likely over Assam & Meghalaya, Arunachal Pradesh during 23rd-27th; over Nagaland, Manipur, Mizoram & Tripura during 23rd-26th with **very heavy rainfall** over Arunachal Pradesh on 23rd & 24th and over Assam & Meghalaya on 23rd, 26th April.
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds** (speed reaching 30-40 kmph gusting to 50 kmph) likely over Karnataka, Coastal Andhra Pradesh & Yanam. Rayalaseema. Kerala & Mahe. Tamilnadu Puducherry & Karaikal during next 7 days.
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds** (speed reaching 40-50 kmph gusting to 60 kmph) likely over East India during 26th-28th April.
 - ✓ **Isolated hailstorm** activity likely over Jharkhand on 27th April.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan region from 24th April, 2025. Under its influence:
 - ✓ **Isolated to scattered** light rainfall with **thunderstorm & lightning** likely over Western Himalayan Region during 24th-26th April.

Temperature Forecast:

- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Northwest India during next 7 days.
- ❖ No significant change in maximum temperatures likely over Gujarat during next 5 Days and rise by 2-3°C for subsequent 2 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over East India during next 2 Days and no significant change during subsequent 2 days; fall by 3-4°C for subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

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

- ❖ Heat wave conditions very likely in isolated pockets over West Madhya Pradesh during 23rd-29th; West Rajasthan during 24th-29th; East Madhya Pradesh during 23rd-27th; Uttar Pradesh, Vidarbha, Bihar, Odisha, Jharkhand, Gangetic West Bengal during 23rd-26th; Punjab, Haryana & Delhi, East Rajasthan during 25th-29th; Chhattisgarh during 23rd-25th; Madhya Maharashtra and Marathawada on 24th & 25th April.
- ❖ Warm night conditions very likely in isolated pockets over Bihar during 23rd-25th; Odisha on 23rd & 24th and Gangetic West Bengal on 24th & 25th April.
- ❖ Hot & humid weather is likely to prevail over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema during 23rd-26th; Kerala & Mahe on 23rd & 24th; Gujarat State on 23rd, 24th & during 27th-29th; Konkan & Goa, Madhya Maharashtra, Marathawada on 23rd April.







Main Weather Observations:

- ❖ Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Arunachal Pradesh, Assam & Meghalaya; at a few places over Kerala & Mahe, Lakshadweep, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Chhattisgarh, Odisha, , Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana and Karnataka.
- * Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm):Assam & Meghalaya: Shella (dist East Khasi Hills) 15, Cherrapunji (dist East Khasi Hills) 11, Mawsynram (dist East Khasi Hills) 10, Beki Mathungari (dist Barpeta) 10, Moranhat (dist Dibrugarh) 10, Nahar Katia (dist Dibrugarh) 9, Kokrajhar (dist Kokrajhar) 9, Mawkyrwat (dist South West Khasi Hills) 9, Neamatighat (dist Jorhat) 8, Cherrapunji(rkm) (dist East Khasi Hills) 8, Mushalpur_aws (dist Baksa) 8, Sonari_arg (dist Sibsagar) 7, Sivasagar (dist Sibsagar) 7, Goibargaon (dist Baksa) 7, Margherita (dist Tinsukia) 7; Tamil Nadu: Mambzhathuraiyaru (dist Kanyakumari), Anaikedanku (dist Kanyakumari) 8 each,Adayamadai (dist Kanyakumari) 6,Colachel (dist Kanyakumari), Kamudhi (dist Ramanathapuram), Kamudhi ARG (distRamanathapuram) 5 each; Arunachal Pradesh: Namsai (dist Lohit) 7, Pasighat_ Aero (dist East Siang) 7, Passighat_aws (dist EastnSiang) 6; Sub-Himalayan West Bengal & Sikkim: Barobhisha (dist Alipurduar) 6, Domohani (dist Jalpaiguri) 4, Amfu Pundibari (dist Cooch Behar) 4, Chepan (dist Alipurduar) 4; Kerala: Trivandrum (dist Thiruvananthapuram) 5, Vellayani (dist Thiruvananthapuram) 4,
- **Hailstorm** occurred at isolated places over Madhya Maharashtra.
- ❖ Heavy to very heavy rainfall recorded at isolated places over Assam & Meghalaya and heavy rainfall at isolated places over Arunachal Pradesh and Tamil Nadu.
- Heat wave to severe heat wave conditions prevailed in isolated pockets of Gangetic West Bengal, Bihar, Odisha; Heat wave conditions in isolated pockets of East Madhya Pradesh, Vidarbha, Saurashtra & Kutch.
- ❖ Hot & humid weather prevailed in isolated pockets of Jharkhand and Saurashtra & Kutch.
- ❖ Minimum Temperature Departures (as on 23-04-2025): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Bihar; at isolated places over Odisha, Marathwada, Madhya Maharashtra; above normal (1.6°C to 3.0°C) at isolated places over South Interior Karnataka, Kerala & Mahe. These are appreciably below normal (-5.0°C to -3.1°C) at isolated places over Rajasthan; below normal (-3.0°C to -1.6°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Madhya Pradesh, Haryana-Chandigarh-Delhi and normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 16.5°C is reported at Adampur (Punjab) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 22-04-2025): Maximum Temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Vidarbha; at a few places over East Uttar Pradesh, Saurashtra & Kutch; at isolated places over West Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Jharkhand, Bihar; above normal (1.6°C to 3.0°C) at a few places over Haryana-Chandigarh-Delhi, Punjab, Madhya Maharashtra, Marathwada; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Gujarat Region, Telangana, Odisha, Gangetic West Bengal, Assam & Meghalaya. These were below normal (-3.0°C to -1.6°C) at a few places over Andaman & Nicobar Islands; at isolated places over South Interior Karnataka, Telangana, and normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 46.2°C was reported at Jharsuguda (Odisha) over the country.





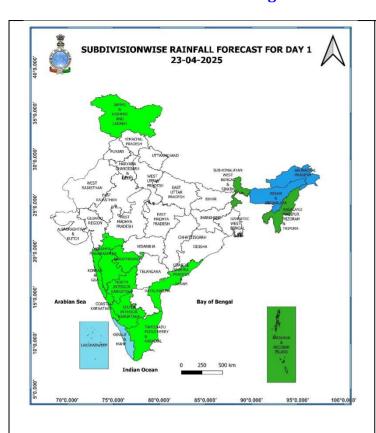
Meteorological Analysis (Based on 0830 hours IST)

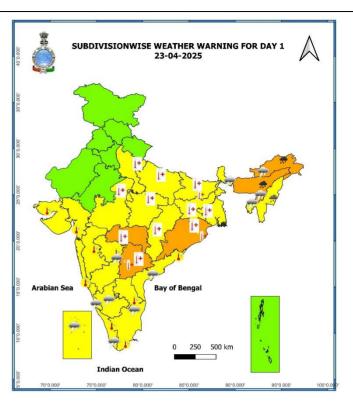
- ❖ The **Western Disturbance** as a **trough** in middle tropospheric level now runs roughly along Long. 75°E to the north of Lat. 33°N.
- ❖ The upper air **cyclonic circulation** over northwest Bihar & neighbourhood now lies over east Bihar & neighbourhood at 0.9 km above mean sea level.
- ❖ A north-south **trough** runs from north Chhattisgarh & neighbourhood to Gulf of Mannar across Vidarbha, Telangana, Interior Karnataka and Tamil Nadu at 0.9 km above mean sea level.
- ❖ The upper air cyclonic circulation over northeast Assam & neighbourhood between 1.5 & 3.1 km persists and now seen between 0.9 & 1.5 km above mean sea level.
- ❖ The upper air **cyclonic circulation** over south coastal Tamil Nadu at 1.5 km persists and now seen between 1.5 & 3.1 km above mean sea level.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan region from 24th April, 2025.
- ❖ The **trough** from central Pakistan to northwest Uttar Pradesh across Punjab & Haryana at 1.5 km above mean sea level has become less marked.
- The trough from northwest Bihar & neighbourhood to Manipur across Sub-Himalayan West Bengal, Bangladesh and south Assam at 0.9 km above mean sea level has become less marked.
- ❖ The north-south **trough** from northwest Bihar & neighbourhood to Gulf of Mannar across Chhattisgarh, East Vidarbha, Telangana, Interior Karnataka and Tamil Nadu at 0.9 km above mean sea level has become less marked.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 30th April, 2025)



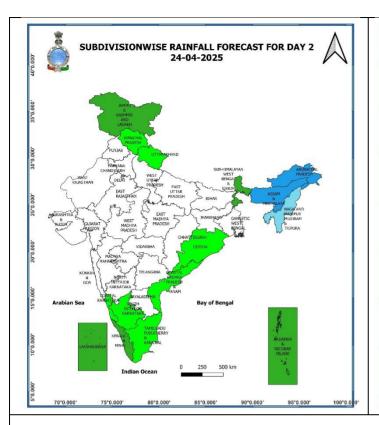


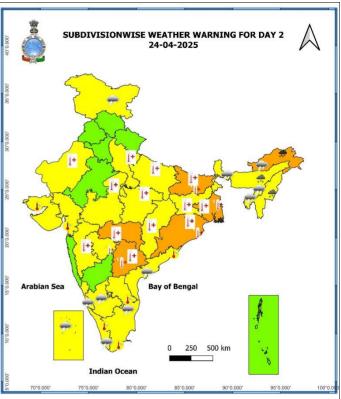
23rd April (Day 1)

- Thundersquall accompanied with lightning & gusty winds (speed reaching 50 60 kmph gusting to 70 kmph) very likely at isolated places over Assam & Meghalaya; Thunderstorm accompanied with lightning, gusty winds (speed reaching 40 50 kmph gusting to 60 kmph) at isolated places over Kerala & Mahe, North Interior Karnataka, Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30 40 kmph gusting to 50 kmph) at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema; with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, South Interior Karnataka and Coastal Karnataka.
- Heavy to very heavy rainfall very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Heat wave conditions** very likely in isolated pockets over Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha and Telangana.
- ❖ Hot and Humid very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema.
- **Warm Night conditions** very likely at isolated places over Bihar, Telangana and Odisha.







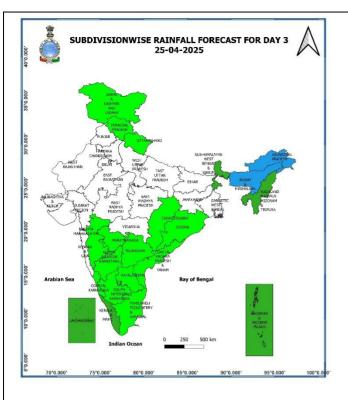


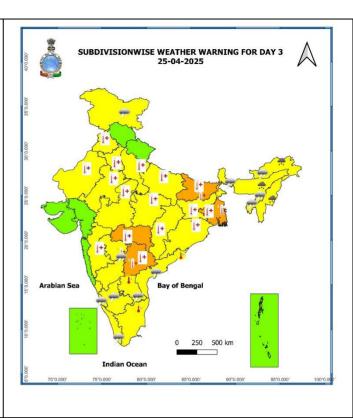
24th April (Day 2)

- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40 50 kmph gusting to 60 kmph) very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; with lightning, gusty winds (speed reaching 30 40 kmph gusting to 50 kmph) at isolated places over Assam & Meghalaya, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal Karnataka, South Interior Karnataka.
- ❖ Heavy to very heavy rainfall very likely at isolated places over Arunachal Pradesh and heavy rainfall at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- Heat wave conditions very likely in isolated pockets over Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha, Madhya Maharashtra, Marathwada, Telangana.
- ❖ Hot and Humid very likely at isolated places over Gujarat state, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- ❖ Warm Night conditions very likely at isolated places over Gangetic West Bengal, Bihar, Telangana and Odisha.





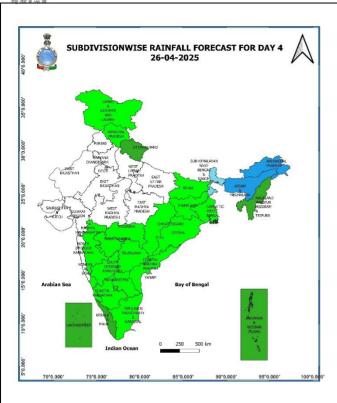


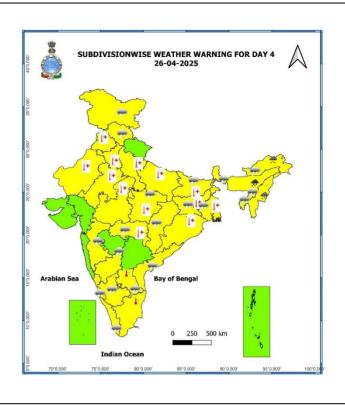


25th April (Day 3)

- ❖ Thunderstorm accompanied with lightning, gusty winds (speed reaching 40 50 kmph gusting to 60 kmph) very likely at isolated places over North Interior Karnataka Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 40 kmph gusting to 50 kmph) at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, South Interior Karnataka and Coastal Karnataka.
- ❖ Heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Heat wave conditions** likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Iharkhand, Odisha, Madhya Maharashtra, Marathwada and Telangana.
- ❖ Hot and Humid likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- **Warm Night conditions** likely at isolated places over Gangetic West Bengal, Bihar, Telangana.

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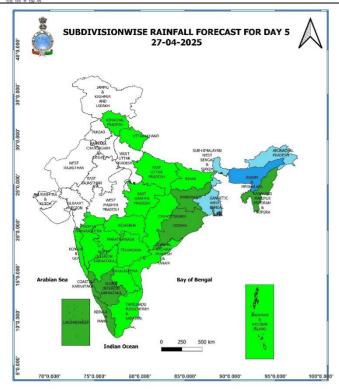


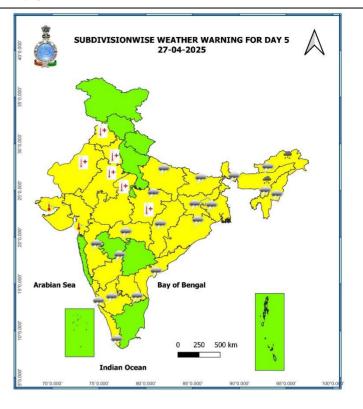
26th April (Day 4)

- ❖ Thundersquall accompanied with lightning & gusty winds (speed reaching 50 60 kmph gusting to 70 kmph) likely at isolated places over Bihar; Thunderstorm accompanied with lightning & gusty winds (speed reaching 40 50 kmph gusting to 60 kmph) at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, North Interior Karnataka; with lightning & gusty winds (speed reaching 30 40 kmph gusting to 50 kmph) at isolated places over Himachal Pradesh, Gangetic West Bengal, Jharkhand, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Coastal Karnataka.
- **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya and **heavy Rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura.
- Heat wave conditions likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Gangetic West Bengal, Bihar, Jharkhand and Odisha.
- Hot and Humid likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.



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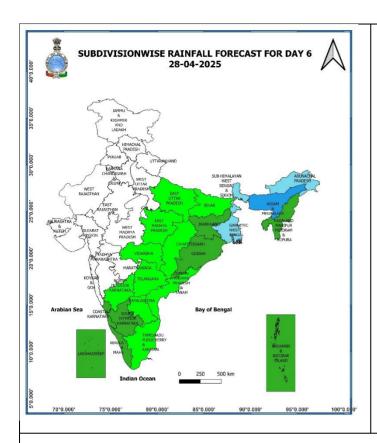


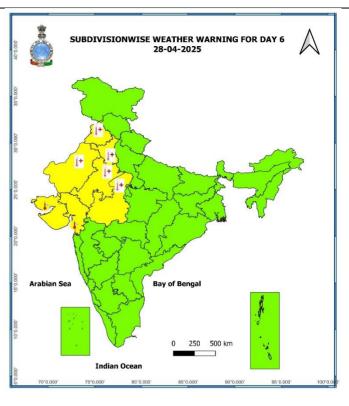
27th April (Day 5)

- Thundersquall accompanied with lightning & gusty winds (speed reaching 50 60 kmph gusting to 70 kmph) likely at isolated places over Bihar, North Interior Karnataka; Thunderstorm accompanied with lightning, Hailstorm & gusty winds (speed reaching 40 50 kmph gusting to 60 kmph) at isolated places over Jharkhand; with lightning & gusty winds (speed reaching 40 50 kmph gusting to 60 kmph) at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, South Interior Karnataka; with lightning & gusty winds (speed reaching 30 40 kmph gusting to 50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema; with lightning at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Coastal Karnataka.
- * Heavy Rainfall likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ Heat wave conditions likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Rajasthan and Madhya Pradesh.
- **\Delta Hot and Humid** likely at isolated places over Gujarat state.



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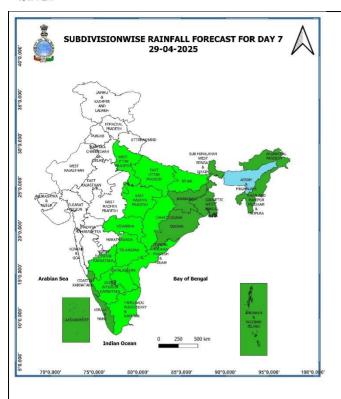


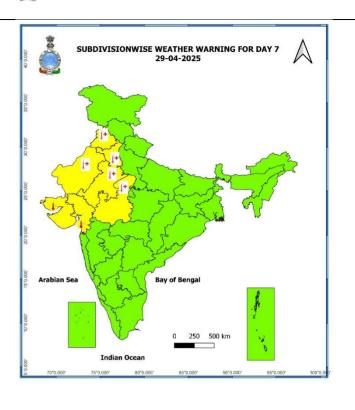
28th April (Day 6)

- ❖ **Heat wave conditions** likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Rajasthan and west Madhya Pradesh.
- ❖ Hot and Humid likely at isolated places over Gujarat state.



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29th April (Day 7)

- Heat wave conditions likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Rajasthan and west Madhya Pradesh.
- ❖ Hot and Humid likely at isolated places over Gujarat state.

Weather Outlook for subsequent 3 days (During 30th April- 02nd May, 2025)

- **Fairly widespread to widespread** rainfall activity likely over east & northeast India, Kerala.
- ❖ Isolated to scattered rainfall likely over Uttarakhand, north Uttar Pradesh, remaining parts of south peninsular India and Andaman & Nicobar Islands.

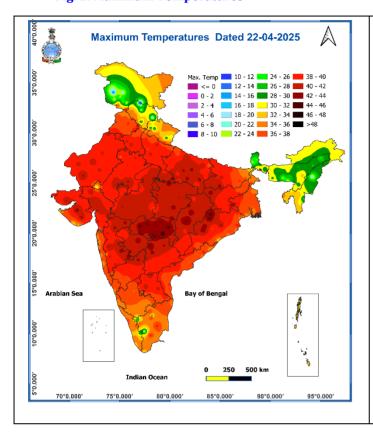
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

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



Fig. 1: Maximum Temperatures





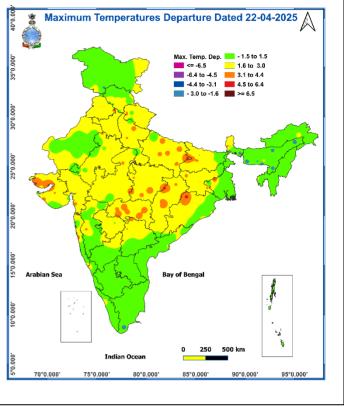


Fig. 3: Minimum Temperatures

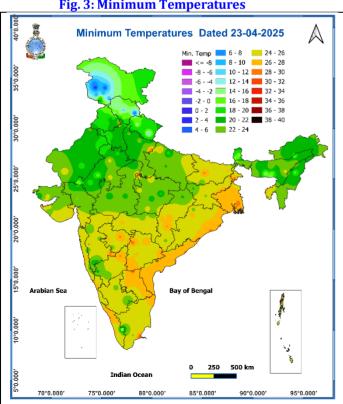


Fig. 4: Departure of Minimum Temperatures

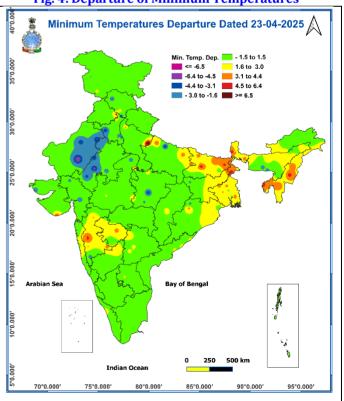
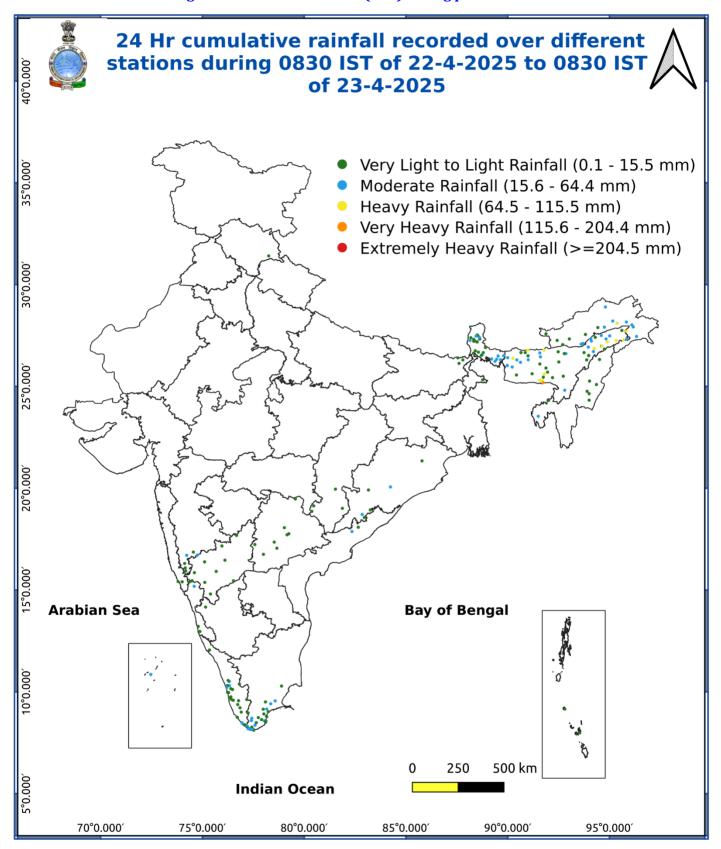






Fig. 5: Accumulated Rainfall (mm) during past 24 hours







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

- ✓ Hailstorm over Jharkhand on 27th April.
- ✓ Thundersquall over Assam & Meghalaya on 23rd; Bihar on 26th & 27th and over north Interior Karnataka on 27th April.

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 Central India and plains of Northwest India till 29th and East India till 26th April.

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 & Action Suggested due to heavy to very heavy rainfall over Arunachal Pradesh on 23rd & 24th and Assam & Meghalaya on 23rd & 26th April.

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).



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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.

Agromet advisories for likely impact of Heavy Rainfall / Gusty Winds / Heat wave (Based on the IBF and advisories issued by different AMFUs)

- In North Eastern States and Tamilnadu, drain out excess water from standing crop and vegetable fields.
- In Madhya Pradesh, Chhattisgarh, Vidarbha, Uttar Pradesh, Rajasthan, Haryana, Punjab, Odisha, Bihar, Jharkhand, Gangetic West Bengal, Telangana and Gujarat, apply light and frequent irrigation to standing crops, vegetables and orchards in the evening to protect them from adverse effects of heat waves and high temperatures.
- > Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- ➤ Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.

Livestock / Poultry / Fishery

- ➤ Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- > Store feed and fodder in a safe place to prevent spoilage.
- > To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty of drinking water to animals.
- > Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

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.
Heat Wave	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
	(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.
Cold Wave	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
Cold Day	Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	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 Dense Fog: when the visibility between 50-200 metres
	Very Dense Fog: when the visibility < 50 metres
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)
	A strong wind that rises suddenly, lasts for atleast 1 minute.
Squall	Moderate: Wind speed 52-61 kmph
	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
	Cualania Charma Mind and CO 07 Imagh (OA 47 Imagh)
	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 88-117 kmph (48-63 knots) Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Cyclone	very severe Cyclonic Storm. Wind speed 116-165 kmph (64 - 69 knots)
Cyclone	Extremely Severe Cyclonic Storm: Wind speed 116-165 kmph (64 - 89 knots)