



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Thursday, April 24, 2025 Time of Issue: 1400 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 north Bangladesh and another over northeast Assam in lower tropospheric levels. A north-south trough runs from central Chhattisgarh to Gulf of Mannar in lower tropospheric levels.
- ✤ Under the influence of these systems:
 - ✓ Fairly widespread to widespread light/moderate rainfall accompanied with thunderstorm, lightning & strong 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 24th-27th; over Nagaland, Mizoram & Tripura during 24th-26th with very heavy rainfall over Arunachal Pradesh on 24th and over Assam & Meghalaya on 24th & 26th April.
 - ✓ Isolated to Scattered light/moderate rainfall accompanied with thunderstorm, lightning & strong winds speed reaching 30-40 kmph gusting to 50 kmph likely over Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Tamilnadu Puducherry & Karaikal during next 7 days.
 - ✓ Isolated heavy rainfall over Kerala on 24th, 28th & 29th April.
 - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm**, lightning & strong winds speed reaching 40-50 kmph gusting to 60 kmph likely over East India and East Uttar Pradesh during 26th-29th April.
 - ✓ Isolated hailstorm activity likely over Jharkhand on 27th & 28th and Odisha on 28th April.
 - ✓ Thundersquall winds speed reaching 50-60 kmph likely over Bihar during 26th-28th and Gangetic West Bengal, Vidarbha, Chhattisgarh, East Madhya Pradesh on 27th & 28th and South Interior Karnataka on 27th April.
 - ✓ **Isolated heavy rainfall** over Sikkim on 26th & 27th with **very heavy rainfall** on 26th April.
- A fresh Western Disturbance seen as a trough in middle tropospheric westerlies roughly along Long. 69°E to the north of Lat. 31°N. 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 Punjab, Haryana Chandigarh & Delhi, Rajasthan during next 6 days.
- Gradual rise in maximum temperatures by 2-3°C likely over Uttar Pradesh during next 3 days and fall by 2-3°C for subsequent 4 days.
- No significant change in maximum temperatures likely over Gujarat during next 3 Days and rise by 2-3°C for subsequent 3 days.
- No significant change in maximum temperatures likely over East India & adjoining Central India during next 3 days and fall by 3-5°C for subsequent 4 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 24th-30th; Rajasthan during 25th-30th; East Madhya Pradesh during 24th-27th; Uttar Pradesh, Vidarbha, Bihar, Odisha, Jharkhand, West Bengal during 24th-26th; Punjab, Haryana during 25th-29th; Chhattisgarh, Telangana, Madhya Maharashtra and Marathawada on 24th & 25th April.
- Warm night conditions very likely in isolated pockets over Gangetic West Bengal, Odisha on 24th & 25th; Bihar, Telangana on 24th April.
- Hot & humid weather is likely to prevail over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema during 24th-26th; Gujarat State on 24th & during 27th-30th April.





Main Weather Observations:

- Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Arunachal Pradesh, Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe, Lakshadweep; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Karnataka.
- Heavy to very heavy rainfall with extremely heavy falls has been recorded at isolated places over Assam & Meghalaya; heavy to very heavy rainfall at isolated places over Arunachal Pradesh and heavy rainfall at isolated places over Kerala.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Assam & Meghalaya: Mynkre 21; D/mohanbari Aero (dist Dibrugarh) 19, Mohanbari_aws (dist Dibrugarh) 17, Khowang (dist Dibrugarh) 17, Dholla Bazar (dist Tinsukia) 16, Nahar Katia (dist Dibrugarh) 13, Cherrapunji(rkm) (dist East Khasi Hills) 10, Ranganadi Nt Xing (dist Lakhimpur) 9, Moranhat (dist Dibrugarh) 8, Khliehriat (dist East Jaintia Hills) 8, Dhemaji (dist Dhemaji) 7, Majuli (dist Jorhat) 7, Goibargaon (dist Baksa) 7; Arunachal Pradesh: Tezu_ Aws (dist Lohit) 13, Namsai (dist Lohit) 10, Roing (dist Lower Dibang Valley) 8, Pasighat_ Aero (dist East Siang) 8, Passighat_aws (dist East Siang) 7; Kerala & Mahe: Kurudamannil (dist Pathanamthitta) 10, Kanjirappally (dist Kottayam) 6, Ernakulam South (dist Ernakulam) 6, Mattanchery (dist Ernakulam) 5; Tamilnadu Puducherry & Karaikal: Kannimar (dist Kanyakumari), Udumalpet (dist Tiruppur) 4 each.
- * Hailstorm occurred at isolated places over Sub-Himalayan West Bengal & Sikkim.
- Yesterday, Heat wave conditions prevailed in isolated pockets of Gangetic West Bengal, Bihar, Odisha, Jharkhand, East Madhya Pradesh, Vidarbha and Telangana.
- Warm night conditions prevailed in isolated pockets of Telangana, Jharkhand and Odisha.
- Hot & humid weather prevailed in isolated pockets of Marathawada.
- Minimum Temperature Departures (as on 24-04-2025): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Madhya Maharashtra; above normal (1.6°C to 3.0°C) at many places over Gangetic West Bengal; at a few places over Assam & Meghalaya, Chhattisgarh, Coastal Karnataka; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Telangana, Marathwada, Kerala & Mahe. These are below normal (-3.0°C to -1.6°C) at isolated places over Haryana-Chandigarh-Delhi, Rajasthan, Madhya Pradesh, Bihar 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 23-04-2025): Maximum Temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Gujarat state, Vidarbha, Jharkhand, Telangana, Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Punjab, Haryana-Chandigarh-Delhi, East Madhya Pradesh, Chhattisgarh, Madhya Maharashtra; at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Odisha, Bihar, Konkan & Goa, Marathwada; at a few places over Sub-Himalayan West Bengal & Sikkim, North Interior Karnataka, Coastal Karnataka; at isolated places over Kerala & Mahe. These were appreciably below normal (-5.0°C to 3.1°C) at isolated places over Arunachal Pradesh, Assam & Meghalaya; below normal (-3.0°C to -1.6°C) at isolated places over Nagaland, Manipur, Mizoram & Tripura, and normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 45.6°C was reported at Brahmapuri (Vidarbha) over the country.





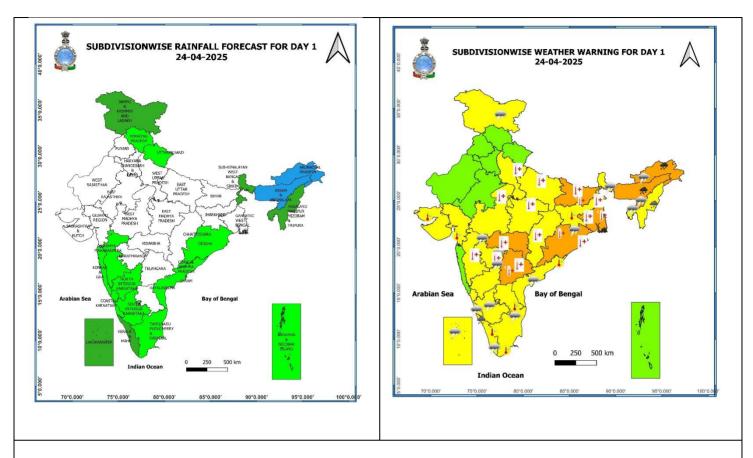
Meteorological Analysis (Based on 0830 hours IST)

- ✤ A fresh Western Disturbance seen as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 69°E to the north of Lat. 31°N.
- ✤ A cyclonic circulation lies over central Pakistan at 1.5 km above mean sea level.
- The upper air cyclonic circulation over east Bihar & neighbourhood now lies over north Bangladesh & neighbourhood and extends upto 1.5 km above mean sea level.
- ✤ A trough runs from above cyclonic circulation over north Bangladesh & neighbourhood to north Odisha across Gangetic West Bengal at 0.9 km above mean sea level.
- The north-south trough from north Chhattisgarh & neighbourhood to Gulf of Mannar now runs from central Chhattisgarh 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 persists and now seen at 0.9 km above mean sea level.
- The Western Disturbance as a trough in middle tropospheric level roughly along Long. 75°E to the north of Lat. 33°N has moved away east-northeastwards.
- The upper air cyclonic circulation over south coastal Tamil Nadu between 1.5 & 3.1 km above mean sea level has become less marked.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 01st April, 2025)

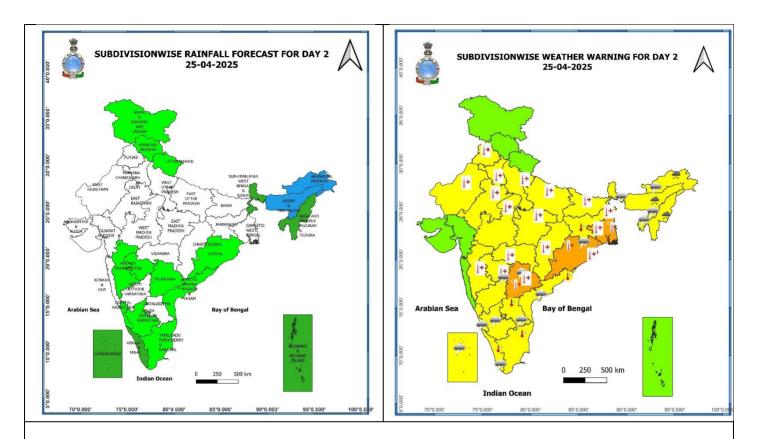


24th April (Day 1)

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



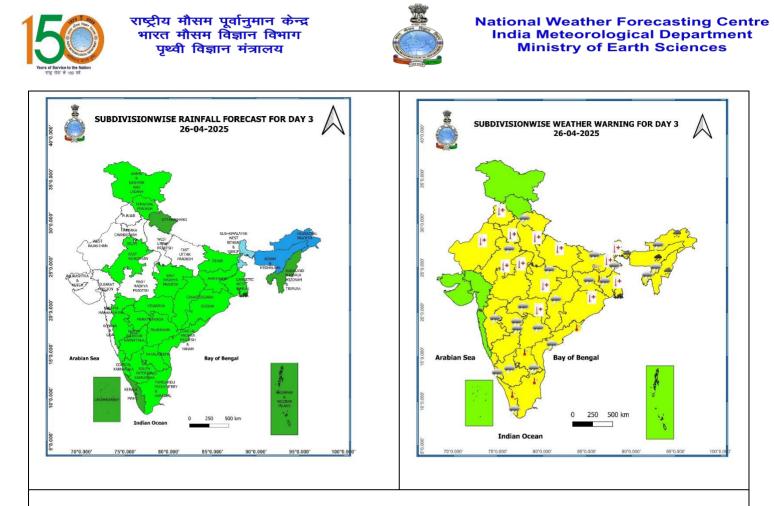




25th April (Day 2)

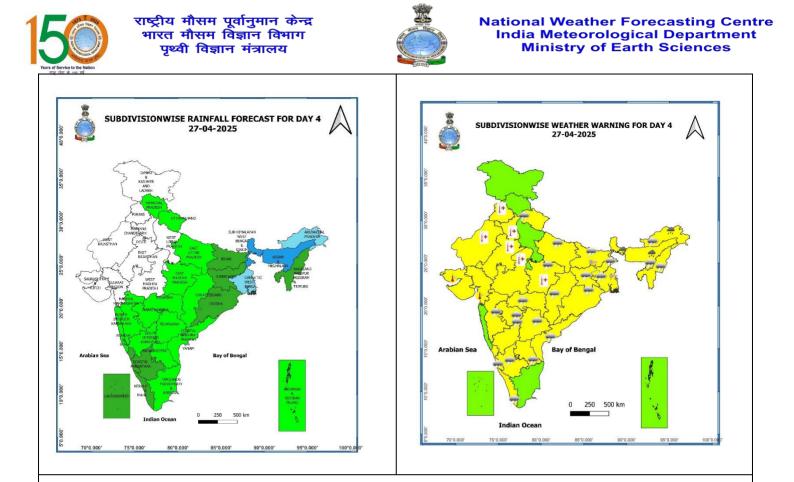
- Thunderstorm accompanied with lightning, gusty winds (speed reaching 30 40 kmph gusting to 50 kmph) very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana and South Interior Karnataka; with lightning at isolated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

• Warm Night conditions very likely in isolated pockets over Gangetic West Bengal and Odisha.



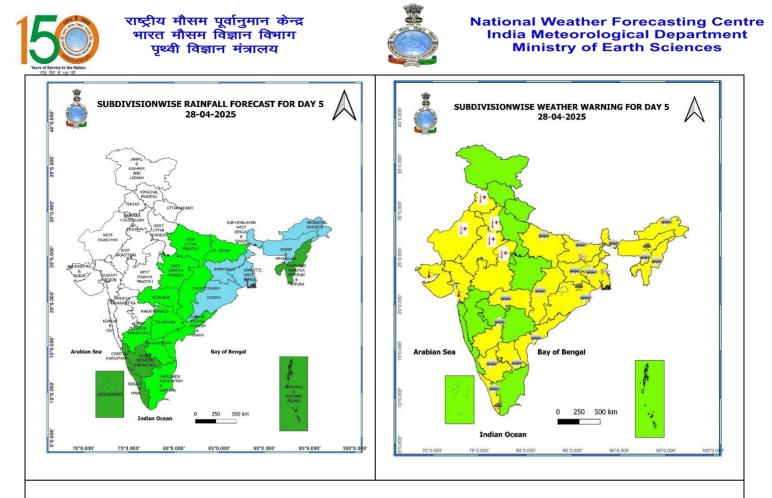
26th April (Day 3)

- Thundersquall accompanied with lightning & gusty winds (speed reaching 50 60 kmph gusting to 70 kmph) very 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 Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal ad 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, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and North Interior Karnataka; with lightning at isolated places over Uttarakhand, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Kerala & Mahe and Coastal Karnataka.
- Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and heavy Rainfall at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- Heat wave conditions very likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, West Bengal & Sikkim, Bihar and Odisha.
- Hot and Humid very likely to prevail over Jharkhand, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Rayalaseema.



27th April (Day 4)

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



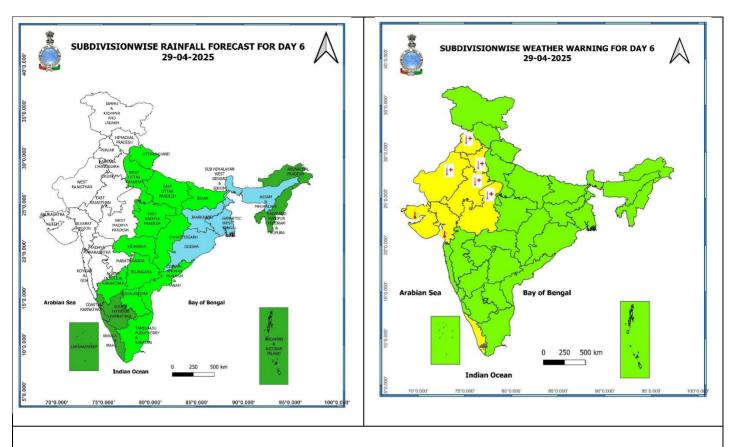
28th April (Day 5)

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



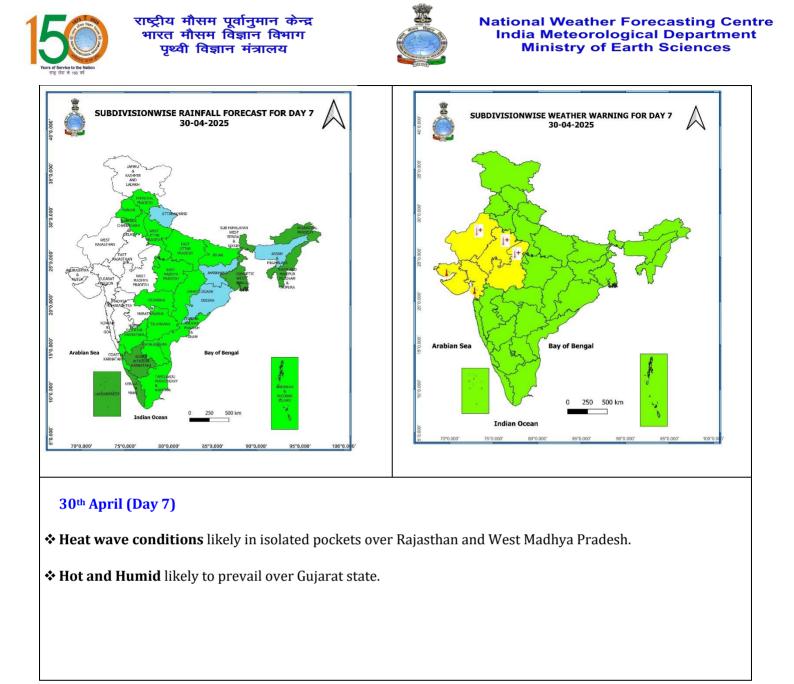


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29th April (Day 6)

- Heavy Rainfall likely at isolated places over Kerala & Mahe.
- Heat wave conditions likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Rajasthan and West Madhya Pradesh.
- Hot and Humid likely to prevail over Gujarat state.



Weather Outlook for subsequent 3 days (During 1st May- 03rd May, 2025)

- Scattered to fairly widespread rainfall activity likely over east & northeast India, Kerala.
- ✤ Isolated to scattered rainfall likely over Northwest India, adjoining central India, 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.





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Fig. 1: Maximum Temperatures

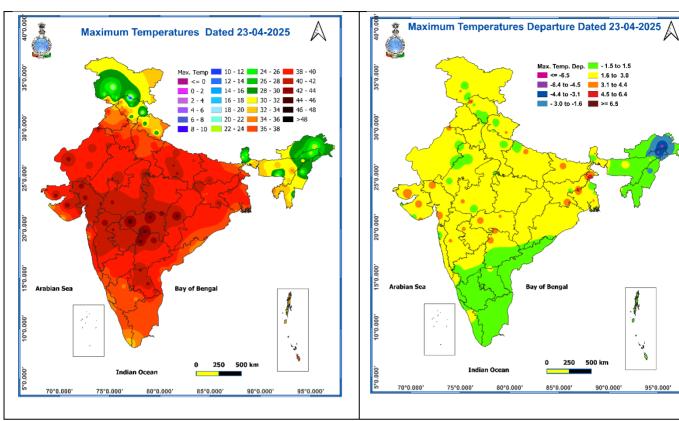
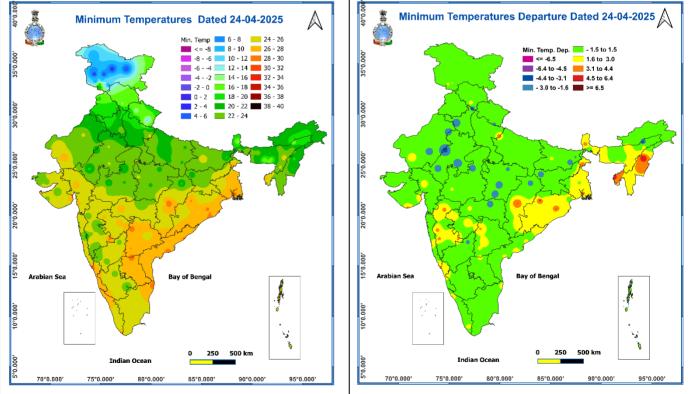


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



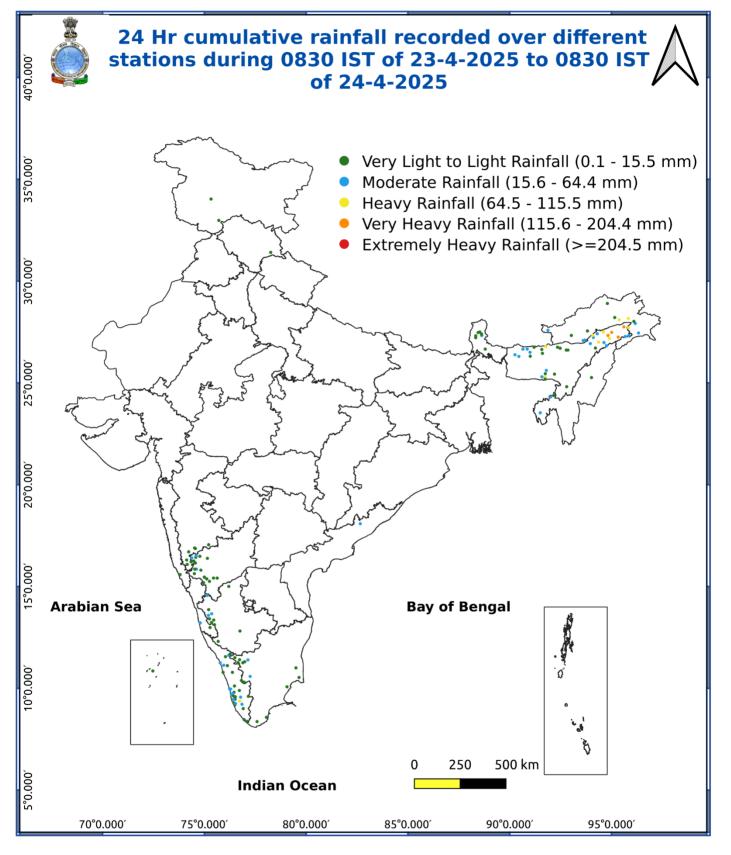
* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)

Fig. 2: Departure of Maximum Temperatures





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







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

- \checkmark Hailstorm over Jharkhand on $27^{th}\,\&\,28^{th}$ and Odisha on 28^{th} April.
- ✓ Thundersquall likely over Bihar during 26th-28th and Gangetic West Bengal, Vidarbha, Chhattisgarh, East Madhya Pradesh on 27th & 28th and South 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 plains of Northwest India till 29th and East & Central 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, Assam & Meghalaya on 24th 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

- In Arunachal Pradesh, Assam, Meghalaya, Nagaland and Kerala, drain out excess water from standing crop and vegetable fields.
- In Madhya Pradesh, Chhattisgarh, Vidarbha, Madhya Maharashtra, Marathwada, Uttar Pradesh, Rajasthan, Haryana, Punjab, Odisha, Bihar, 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

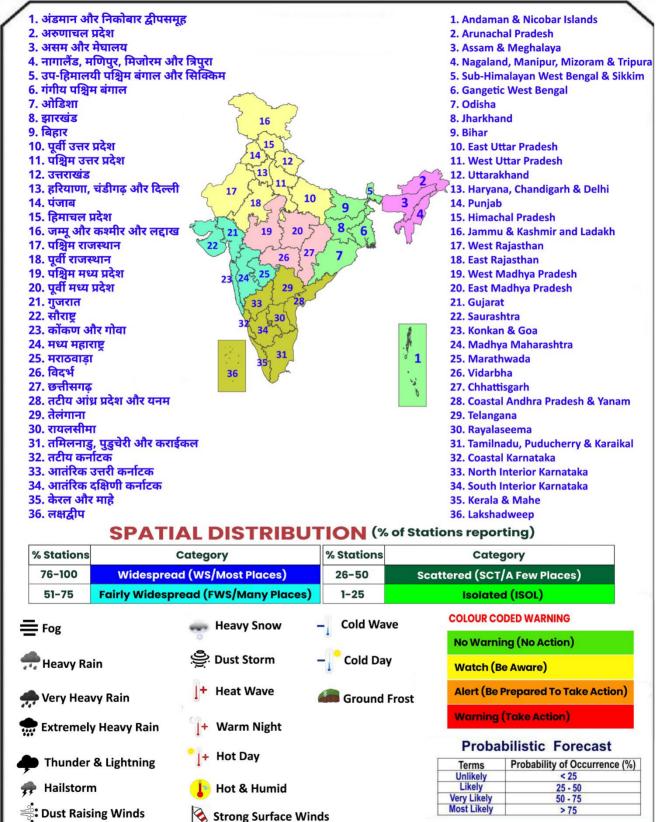
- ▶ Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty 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.





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LEGENDS







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° C for plains and \geq 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
	(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 ≥47°C 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.
Cold Wave	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 (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
Cold Day	When minimum temperature of a station $\le 10^\circ$ C for plains and $\le 0^\circ$ 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 ≤ -6.5 °C
Fog	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
	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
understorm	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 ≤4°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 62-67 Kingh (34-47 Kinds) 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)
	Cuper Cyclone Stront. Wind Speed 220 Milph (2113 MID(S)