



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Monday, April 29, 2024 Time of Issue: 0745 hours IST (MORNING)

All India Impact Based Weather Warning Bulletin

29 April (Day 1):

- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm very likely at isolated places over Himachal Pradesh, Uttarakhand and Punjab; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with lightning, gusty winds (speed reaching 35-45 kmph) & at isolated places over Uttar Pradesh, with lightning, duststorm & gusty winds (speed reaching 30-40 kmph) at isolated places over Haryana-Chandigarh-Delhi; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam with lightning at isolated places over Arunachal Pradesh, Kerala & Mahe, Sub-Himalayan West Bengal & Sikkim and Lakshadweep.
- Heavy rainfall very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Arunachal Pradesh and Assam & Meghalaya.
- Hot and humid weather very likely to prevail over west Assam, Meghalaya, Tripura, Kerala & Mahe and Coastal Karnataka.
- Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal, Bihar; at some places over Jharkhand, Odisha; heat wave conditions in isolated pockets over East Uttar Pradesh, Sub-Himalayan West Bengal, Saurashtra & Kutch, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Interior Karnataka.
- **Warm night conditions** very likely to prevail in isolated pockets over East Uttar Pradesh and Saurashtra & Kutch.

30 April (Day 2):

- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Assam & Meghalaya, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Coastal Andhra Pradesh & Yanam with lightning at isolated places over Himachal Pradesh, Arunachal Pradesh, Kerala & Mahe, Sub-Himalayan West Bengal & Sikkim.
- **Heavy rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- Hot and humid weather very likely to prevail over west Assam, Meghalaya, Tripura, Kerala & Mahe, Konkan & Goa and Coastal Karnataka.
- Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal; at some places over Odisha, Bihar and Jharkhand; heat wave conditions in isolated pockets over Sub-Himalayan West Bengal, East Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Interior Karnataka.





01 May (Day 3):

- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Assam & Meghalaya, with lightning at isolated places over Kerala & Mahe.
- Heavy to very heavy rainfall likely at isolated places over Arunachal Pradesh and Assam & Meghalaya; Heavy rainfall very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura.
- **Hot and humid weather** very likely to prevail over Kerala & Mahe and Coastal Karnataka.
- Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal; at some places over Odisha, Bihar and Jharkhand; heat wave conditions in isolated pockets over Sub-Himalayan West Bengal, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Interior Karnataka.

02 May (Day 4):

- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya with lightning at isolated places over Kerala & Mahe.
- Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Assam & Meghalaya and Heavy to very heavy rainfall at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- Hot and humid weather likely to prevail over Kerala & Mahe, Telangana and Coastal Karnataka.
- Heat wave conditions likely to prevail at isolated places over Gangetic West Bengal, Odisha, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka.

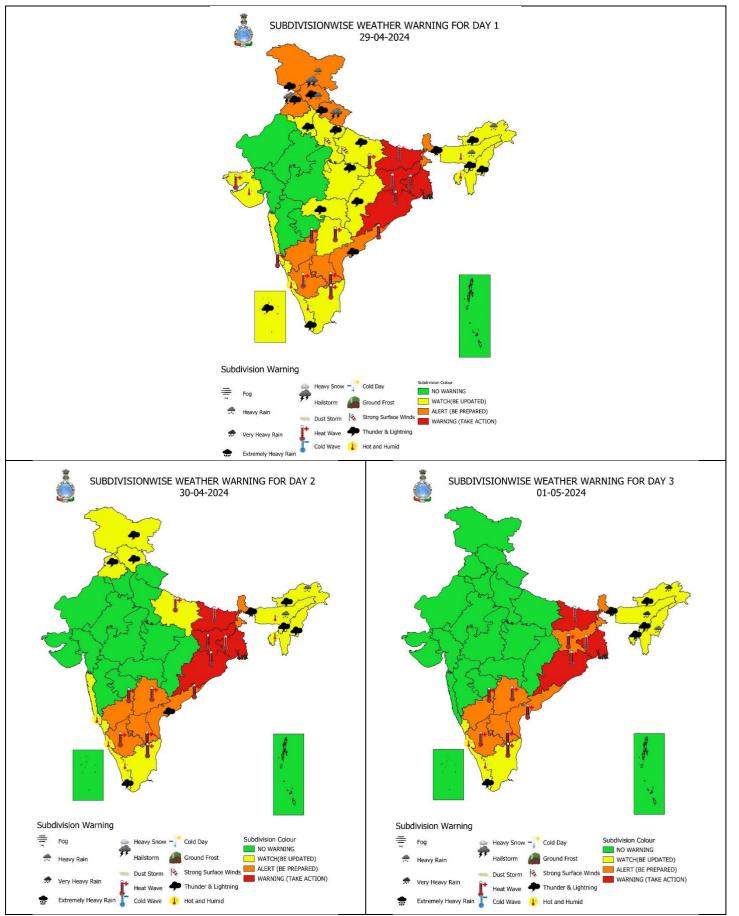
03 May (Day 5):

- Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya with lightning at isolated places over Kerala & Mahe.
- Heavy rainfall likely at isolated places over south Assam & Meghalaya, Tripura and Mizoram.
- Hot and humid weather likely to prevail over Kerala & Mahe, Telangana and Coastal Karnataka.
- Heat wave conditions likely to prevail at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka.





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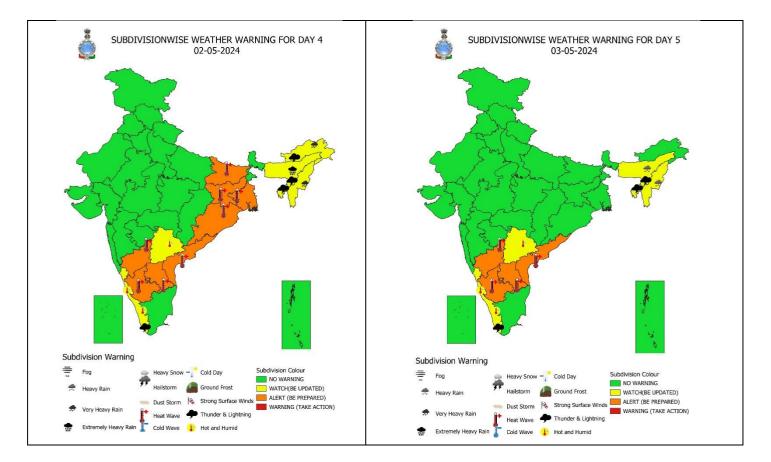


* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since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





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Impact expected and action suggested due to thunderstorm accompanied with lightning/gusty winds & Hailstorm over Himachal Pradesh, Uttarakhand and Punjab on 29th April, 2024.

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.





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Impact & Action Suggested due to heavy/very heavy rainfall over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 29th April; over Arunachal Pradesh, Assam & Meghalaya during 29th April-02nd May and Nagaland, Manipur, Mizoram & Tripura on 01st & 02nd May 2024.

Impacts Expected for Rainfall/Snowfall over above regions:

- Disruption of Electricity.
- Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nallahs.
- Disruption of traffic flow.
- Damage to Kuccha and unsecured structures.

Suggested Actions

- Avoid roadway underpasses, drainage ditches, low lying areas and areas where water collects they can unexpectedly flood or overflow.
- Stay away from power lines or electrical wires.
- Don't stay in kuchcha houses during heavy rainfall as it may collapse anytime soon.
- Drive carefully.

IMPACT & ACTION SUGGESTED due to Heat Wave Conditions:

Red alert Areas (West Bengal, Bihar, Jharkhand & Odisha)

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

Orange alert Areas (Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema & Interior Karnataka)

- 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.

Solution With the second secon

Yellow alert Areas (East Uttar Pradesh, Tamil Nadu)

- 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 Heavy Rainfall, Hailstorm, Gusty Winds and Heat Wave likely over various parts of the country:

- Use hail nets or hail caps in fruit orchards to prevent mechanical damage and provide mechanical support to horticultural crops & staking to vegetables in Himachal Pradesh, Uttarakhand, Punjab, Haryana and Madhya Pradesh. Keep the harvested produce at safer places or cover the heaps of harvested produce in the fields with tarpaulin sheets.
- In Jammu & Kashmir, withhold harvesting of wheat; shift already harvested produce of wheat, mustard chickpea and pea from crop fields to safer places or cover the harvested produce with polythene sheet or tarpaulin; postpone sowing of vegetables, turmeric and transplanting of cucurbits.
- > In Arunachal Pradesh, postpone sowing of maize, jhum upland rice and vegetables.
- Make necessary arrangements for draining out excess water from crop fields to avoid water stagnation in Jammu & Kashmir, Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimise evaporation in West Bengal, Odisha, Bihar, Jharkhand, Uttar Pradesh, North Konkan, Tamil Nadu, North Kerala, Interior Karnataka, Rayalaseema and Telangana.
- > Provide mechanical support to horticultural crops & staking to vegetables to prevent damage from gusty winds.





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	WARNING Probabilistic For	recast	
		114	
	Unlikely 42	Dccurrence (%)	
	Likely 25-	50	
-	Very Likely 50 -		
- 10			
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 *		
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly region		
≬+ Heat Wave	(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 ≥43°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		
Î+	When maximum temperature remains 40°C Warm Night: When minimum temperature departure 4.5 °C to 6.4 °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.		
	Letter than the the the the the the test of te		
∏− 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 Tempera	ture is ≤ 15 °C	
	When minimum temperature of a station $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ C for	or hilly regions	
_	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 horiz	zontal visibility < 1km	
		Moderate Fog: When the visibility between 500-200 metres	
Ø			
	Dense Fog: when the visibility between 50- 200 metres		
F og			
	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres Sudden electrical discharges manifested by a flash of light (Lightning)	and a sharp rumbling	
Fog <i>44</i>	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres Sudden electrical discharges manifested by a flash of light (Lightning)		
Fog hunderstorm	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres Sudden electrical discharges manifested by a flash of light (Lightning) sound (thunder) An ensemble of particles of dust or sand energetically lifted to great h		
Fog // hunderstorm Dust/Sand Storm	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres		
Fog	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres		
Fog /// hunderstorm Dust/Sand Storm	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres	eights by a strong and	
Fog /// hunderstorm Dust/Sand Storm	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres	eights by a strong and	
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Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC websites for district wise warning.