



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Thursday, May 09, 2024 Time of Issue: 0800 hours IST (MORNING)

All India Impact Based Weather Warning Bulletin

09 May (Day 1):

- ❖ Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm very likely at isolated places over Uttarakhand, East Madhya Pradesh and Vidarbha; with lightning & squally winds (speed reaching 50-60 kmph gusting to 70 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar; with lightning, gusty winds (speed reaching 40-50 kmph) at isolated places over Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha and Coastal Andhra Pradesh & Yanam; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Telangana and Interior Karnataka; with lightning at isolated places over Himachal Pradesh, Arunachal Pradesh and Kerala & Mahe.
- ❖ **Dust Storm/Thunderstorm** very likely in isolated pockets over East Uttar Pradesh.
- ❖ **Heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha and Tamil Nadu, Puducherry & Karaikal.
- **\Display Hot and humid weather** very likely to prevail over coastal areas of Gujarat and Kerala & Mahe.
- ❖ Heat wave to severe heat wave conditions very likely to prevail in isolated pockets over West Rajasthan and Heat wave conditions very likely to prevail in isolated pockets over East Rajasthan, West Madhya Pradesh and Saurashtra & Kutch.

10 May (Day 2):

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





11 May (Day 3):

- ❖ Thunderstorm accompanied with lightning, squally winds (speed reaching 50-60 kmph gusting to 70 kmph) & hailstorm likely at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over East Rajasthan, Chhattisgarh, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Punjab, East Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka; with lightning at isolated places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh, Assam & Meghalaya and Lakshadweep.
- ❖ Dust Storm/Thunderstorm with gusty winds (speed 40-50 kmph) likely in isolated pockets over West Uttar Pradesh and West Rajasthan; with gusty winds (speed 30-40 kmph) in isolated pockets over in isolated pockets over Haryana-Chandigarh-Delhi and East Uttar Pradesh.
- **Heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Hot and humid weather** likely to prevail over coastal areas of Gujarat.

12 May (Day 4):

- Thunderstorm accompanied with lightning, squally winds (speed reaching 50-60 kmph gusting to 70 kmph) & hailstorm likely at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over East Rajasthan, Chhattisgarh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Punjab, East Madhya Pradesh, Vidarbha, Odisha, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka; with lightning at isolated places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Lakshadweep.
- ❖ Dust Storm/Thunderstorm with gusty winds (speed 40-50 kmph) likely in isolated pockets over West Rajasthan; with gusty winds (speed 30-40 kmph) in isolated pockets over in isolated pockets over Haryana-Chandigarh-Delhi and Uttar Pradesh.
- **\Delta Hot and humid weather** likely to prevail over coastal areas of Gujarat.

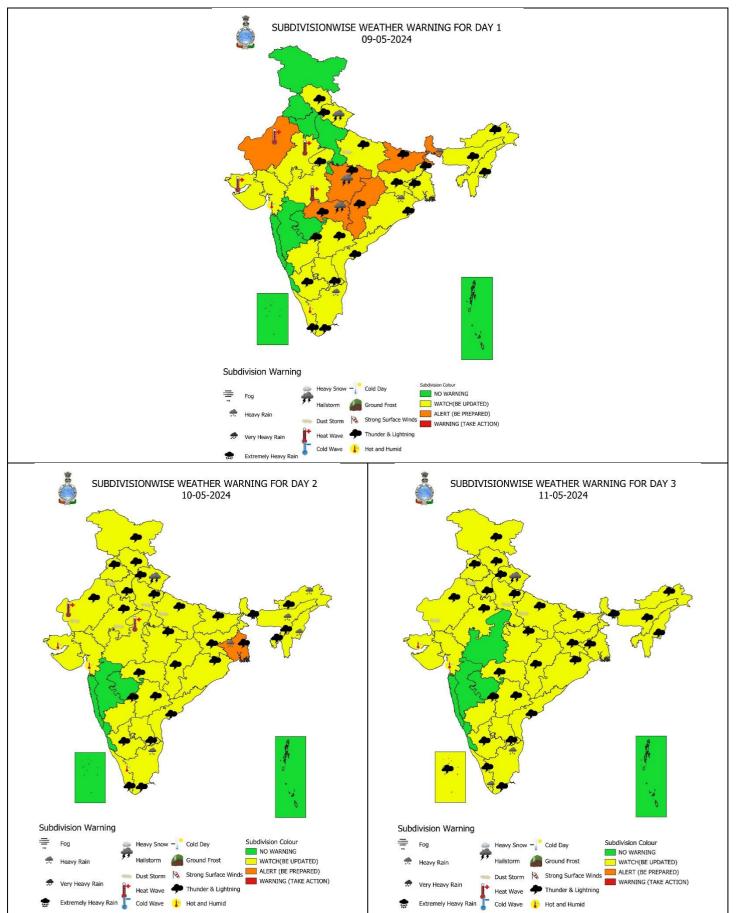
13 May (Day 5):

- ❖ Thunderstorm accompanied with lightning, squally winds (speed reaching 50-60 kmph gusting to 70 kmph) & hailstorm likely at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over East Rajasthan, Chhattisgarh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Punjab, East Madhya Pradesh, Vidarbha, Odisha, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka; with lightning at isolated places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Lakshadweep.
- ❖ Dust Storm/Thunderstorm with gusty winds (speed 40-50 kmph) likely in isolated pockets over West Rajasthan; with gusty winds (speed 30-40 kmph) in isolated pockets over in isolated pockets over Haryana-Chandigarh-Delhi and Uttar Pradesh.
- **❖ Hot and humid weather** likely to prevail over coastal areas of Gujarat.



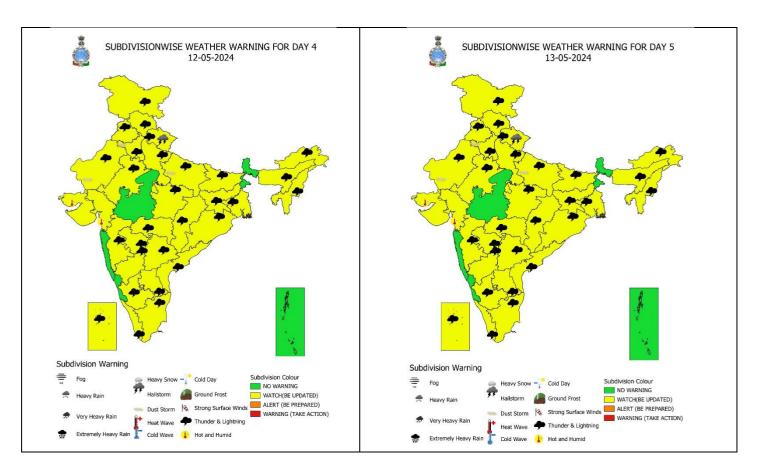


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Impact expected and action suggested due to Heat Wave Conditions:

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.



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Impact expected and action suggested due to thunderstorm accompanied with lightning/gusty winds & Hailstorm over Uttarakhand during next 5 days; Central India during next 2 days; East & South Peninsular India during next 4-5 days and Northwest India during 10th-12th May, 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.

Impact & Action Suggested due to heavy rainfall over Kerala & Mahe on 11th; Tamil Nadu, Puducherry & Karaikal during 09th-11th; Sub-Himalayan West Bengal & Sikkim and Odisha on 09th and Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya & Nagaland, Manipur, Mizoram & Tripura on 10th 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.

Agromet advisories for Heavy Rainfall, Gusty winds, Hail and Heat Wave likely over various parts of the country:

- Make arrangements to drain out excess water from crop fields to avoid water stagnation in Sub-Himalayan West Bengal, Odisha, Tamil Nadu, Kerala, South Interior Karnataka, Andhra Pradesh and Telangana.
- > Use hail nets or hail caps in fruit orchards to prevent mechanical damage and provide mechanical support to horticultural crops & staking to vegetables in Uttarakhand, East Madhya Pradesh and Vidarbha.
- ➤ Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimise evaporation in Saurashtra & Kutch, Rajasthan, and West Madhya Pradesh.
- > Provide mechanical support to horticultural crops & staking to vegetables to prevent damage from gusty winds.





	L	EGENDS		
	WARNING	WARNING Probabilistic Forecast		
	WARNING (TAKE ACTION)	Terms	Probability of Occurrence (%	
	ALERT (BE PREPARED)	Unlikely Likely	< 25	
	WATCH (BE UPDATED)	Very Likely	25 - 50 50 - 75	
	NO WARNING (NO ACTION)	Most Likely	> 75	
′_	Heavy: 64.5 to 115.5 mm/cm *			
Snow *	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *			
Ĵ+ at Wave	When maximum temperature of a s (a) Based on Departure from norma Heat Wave: Maximum Temperature Dep Severe Heat Wave: Maximum Temperat (b). Based on Actual maximum tem Heat Wave: When actual maximum tem Severe Heat Wave: When actual maxim (c). Criteria for heat wave for coas When maximum temperature departure is temperature ≥37°C	al parture from normal 4.5' ture Departure from nor perature perature ≥45°C. turn temperature ≥47°C tal stations	° C to 6.4° C. mal ≥6.5° C	
	When maximum temperature rema	ains 40°C		
Ĵ+	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.			
rm Night	Severe Warm Night: When minimum temperature departure >6.4 °C.			
ẫ– old Wave	When minimum temperature of a (a). Based on departure Cold Wave: Minimum Temperature Depa Severe Cold Wave: Minimum Temperatu (b) Based on actual Minimum Tem Cold Wave: When Minimum Temperatu Severe Cold Wave: When Minimum Ter (c) For Coastal Stations When Minimum Temperature departure	arture from normal -4.5 ure Departure from normal perature (for Plains re is ≤ 4.0 °C mperature is ≤ 2.0 °C	°C to -6.4 °C. nal ≤ -6.5 °C s only)	
ẫ− old Day	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly region 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			
	Phenomenon of small droplets suspended in air and the horizontal visibili			
©	Moderate Fog: When the visibility between Dense Fog: when the visibility between			
og	Very Dense Fog: when the visibility < 50			
## derstorm	Sudden electrical discharges manif sound (thunder)	fested by a flash of	ight (Lightning) and a sharp i	
ust/Sand Storm	An ensemble of particles of dust or turbulent wind.	r sand energetically	lifted to great heights by a st	
<<	Ice deposits on ground			
Frost	Air temperature ≤4°C (over Plains)			
1051	A strong using the state of a	ambi lant- f	ant 1 minute	
\sim	A strong wind that rises sudden Moderate: Wind speed 52-61 kmph	A strong wind that rises suddenly, lasts for atleast 1 minute.		
7	Severe: Wind speed 62-87 kmph			
quall	Very Severe: Wind speed >87 kmph			
a State	Effect of various waves in the sea Rough to very rough: Wind speed 41-6 High to very high: Wind speed 63-117 k Phenomenal: Wind speed >117 kmph (>	62 kmph (22-33 knots) & kmph (34-63 knots) & W	lave height 6-14 metre	
	Killpii (>	oo kiloto, a vvave lielgi	i	
ea State				
ea State	Cyclonic Storm: Wind speed 62-87 kmp			
6	Severe Cyclonic Storm: Wind speed 8	8-117 kmph (48-63 knot	100 K	
Syclone		8-117 kmph (48-63 knot eed 118-165 kmph (64 -	89 knots)	

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.