

ाष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Wednesday, April 17, 2024 Time of Issue: 1945 hours IST (NIGHT)

All India Impact Based Weather Warning Bulletin

17 April (Day 1):

- 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) very likely at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, West Rajasthan; with lightning at isolated places over Arunachal Pradesh, Madhya Maharashtra, Marathwada, North Interior Karnataka and Kerala & Mahe.
- Heavy rainfall/snowfall very likely at isolated places over Arunachal Pradesh.
- Hot and humid weather very likely to prevail over coastal areas of Gujarat region, Coastal & south Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Heat wave to severe heat wave very likely to prevail in isolated pockets over Saurashtra & Kutch; Heat wave in isolated pockets over Gangetic West Bengal, Bihar, Odisha, north Konkan, Madhya Maharashtra, Marathwada Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- Warm Night very likely to prevail in isolated pockets over Madhya Maharashtra and Marathwada.
- Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph very likely to prevail over Gulf of Oman and adjoining Northwest Arabian Sea. Fishermen are advised not to venture into these areas.

18 April (Day 2):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & hailstorm at isolated places over Himachal Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, West Rajasthan, Noth Interior Karnataka and Kerala & Mahe; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Arunachal Pradesh, Madhya Maharashtra, Marathwada and Tamil Nadu, Puducherry & Karaikal.
- Heavy rainfall/snowfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim; Heavy rainfall at isolated places over Assam & Meghalaya.
- Hot and humid weather very likely to prevail over Konkan, Kerala & Mahe and Coastal & South Interior Karnataka.
- Heat wave to severe heat wave very likely to prevail in isolated pockets over Odisha, Heat wave at isolated pockets over Gangetic West Bengal, Bihar, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- Warm Night very likely to prevail in isolated pockets over Madhya Maharashtra.





19 April (Day 3):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) & hailstorm likely at isolated places over Himachal Pradesh and Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Karnataka and Kerala & Mahe; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh, Assam & Meghalaya Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.
- Heavy rainfall/snowfall likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Arunachal Pradesh; Heavy rainfall at isolated places over Assam & Meghalaya, South Interior Karnataka and Kerala & Mahe.
- Hot and humid weather likely to prevail over Konkan and Coastal & south Interior Karnataka.
- Heat wave to severe heat wave very likely to prevail in isolated pockets over Gangetic West Bengal and Odisha; heat wave likely to prevail in isolated pockets over Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph likely over Comorin area and adjoining Gulf of Mannar.

20 April (Day 4):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Chhattisgarh; with gusty winds (speed reaching 30-40 kmph) likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, East Madhya Pradesh, Vidarbha, Odisha, Telangana, North Interior Karnataka and Kerala & Mahe; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- Heavy rainfall/snowfall likely at isolated places over Arunachal Pradesh; Heavy rainfall at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Hot and humid weather likely to prevail over Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- Heat wave to severe heat wave likely to prevail in isolated pockets over Gangetic West Bengal; heat wave likely to prevail in isolated pockets over Bihar, Jharkhand and Odisha.
- Squally weather with wind speed 40 kmph to 45 kmph gusting to 55 kmph likely over Comorin area and adjoining Gulf of Mannar.

21 April (Day 5):

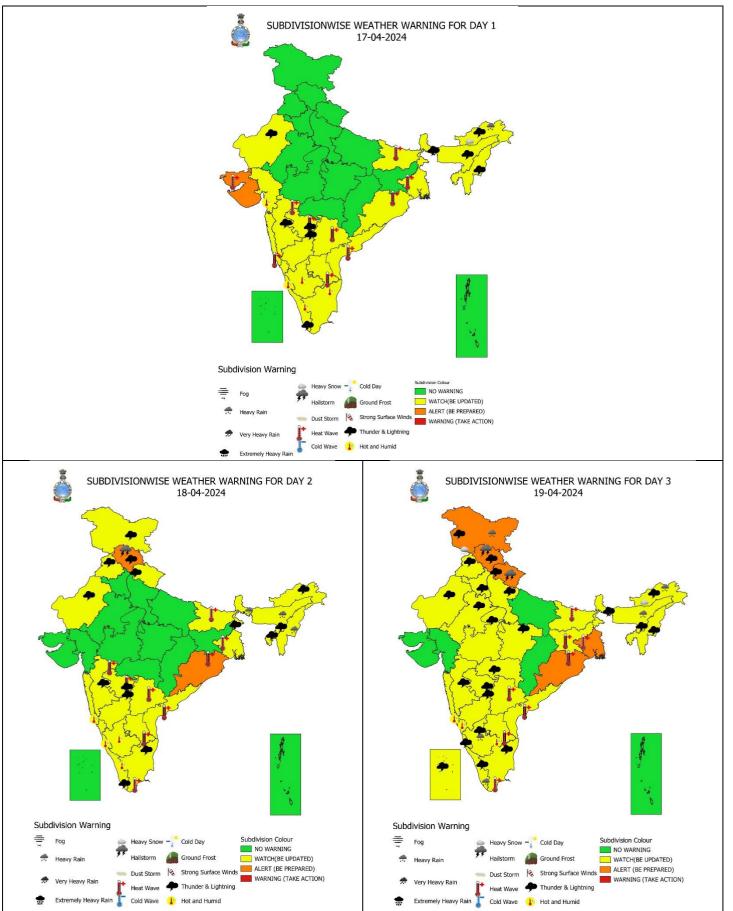
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Chhattisgarh; with gusty winds (speed reaching 30-40 kmph) likely at isolated places over Vidarbha, Odisha, Telangana and North Interior Karnataka; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- Heavy rainfall/snowfall likely at isolated places over Arunachal Pradesh; Heavy rainfall at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Hot and humid weather likely to prevail over Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- Heat wave to severe heat wave likely to prevail in isolated pockets over Gangetic West Bengal; heat wave likely to prevail in isolated pockets over Bihar, Jharkhand and Odisha.



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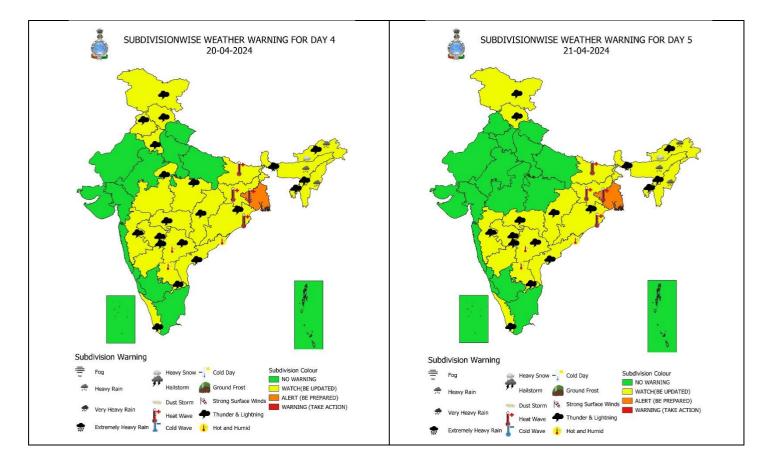
* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since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



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Impact expected and action suggested due to thunderstorm accompanied with lightning/gusty winds & Hailstorm over Himachal Pradesh on 18th & 19th and Uttarakhand 19th 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.





Impact & Action Suggested due to heavy rainfall/snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 19th April, 2024.

Impacts Expected for Rain/Snow

- 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:

Orange alert Areas (Odisha, Saurashtra, Gangetic West Bengal)

- 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- 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 (Jharkhand, north Konkan, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Tamil Nadu, Puducherry & Karaikal**)**

- 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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	LEGENDS WARNING Probabilistic Forecast		
-			
	WARNING (TAKE ACTION) Terms Unlikely	Probability of Occurrence (%) < 25	
-	Likely	25 - 50	
	NO WARNING (NO ACTION) Very Likely	50 - 75	
- 10		> 75	
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 *		
j+ Heat Wave	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly region (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	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		
۹.	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	0.4 °C.	
<u></u> 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.		
	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 $\leq 4.0 ^{\circ}\text{C}$		
	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 pl	lains and ≤0°C for hilly regions	
<u>[]</u>	Based on departure		
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5		
Cold Day	Severe Cold Day: Maximum Temperature Departure from norm	nal ≤ -6.5 °C	
	Phenomenon of small droplets suspended in ai	r and the horizontal visibility < 1km	
Ø	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		
Fog			
	very bender og. when the visibility soo meace		
F hunderstorm	Sudden electrical discharges manifested by a flash of sound (thunder)	light (Lightning) and a sharp rumbling	
Dust/Sand Storm	An ensemble of particles of dust or sand energetically turbulent wind.	lifted to great heights by a strong and	
"	Ice deposits on ground		
<i>>></i>	Air temperature ≤4°C (over Plains)		
Frost	· · · · · · · · · · · · · · · · · · ·		
	A strong wind that rises suddenly, lasts for atl	east 1 minute.	
	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed >87 kmph		
4T			
FF Squall			
Squall			
Squall	Effect of various waves in the sea over specific area		
Squall	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) a	<u> </u>	
(Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & High to very high: Wind speed 63-117 kmph (34-63 knots) & V	Vave height 6-14 metre	
Squall Sea State	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) a	Vave height 6-14 metre	
6.6	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & High to very high: Wind speed 63-117 kmph (34-63 knots) & V Phenomenal: Wind speed >117 kmph (>63 knots) & Wave heig Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)	Vave height 6-14 metre ht >14 metre	
6.6	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & High to very high: Wind speed 63-117 kmph (34-63 knots) & V Phenomenal: Wind speed >117 kmph (>63 knots) & Wave heig Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knot)	Nave height 6-14 metre ht >14 metre its)	
Sea State	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & High to very high: Wind speed 63-117 kmph (34-63 knots) & V Phenomenal: Wind speed >117 kmph (>63 knots) & Wave heig Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knot) Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64	Vave height 6-14 metre ht >14 metre ts) - 89 knots)	
	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & High to very high: Wind speed 63-117 kmph (34-63 knots) & V Phenomenal: Wind speed >117 kmph (>63 knots) & Wave heig Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knot)	Vave height 6-14 metre ht >14 metre ts) - 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.