

ाष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Saturday, April 20, 2024 Time of Issue: 0800 hours IST (MORNING)

# All India Impact Based Weather Warning Bulletin

# 20 April (Day 1):

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

## 21 April (Day 2):

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





## 22 April (Day 3):

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

## 23 April (Day 4):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over East Madhya Pradesh; with gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha, Chhattisgarh, West Bengal & Sikkim, Assam & Meghalaya and Telangana; with lightning at isolated places over Himachal Pradesh, Odisha, Jharkhand, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- Heavy rainfall/snowfall likely at isolated places over Arunachal Pradesh.
- Hot and humid weather likely to prevail over Sub-Himalayan West Bengal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Heat wave conditions likely to prevail in isolated pockets over Gangetic West Bengal and Bihar.

## 24 April (Day 5):

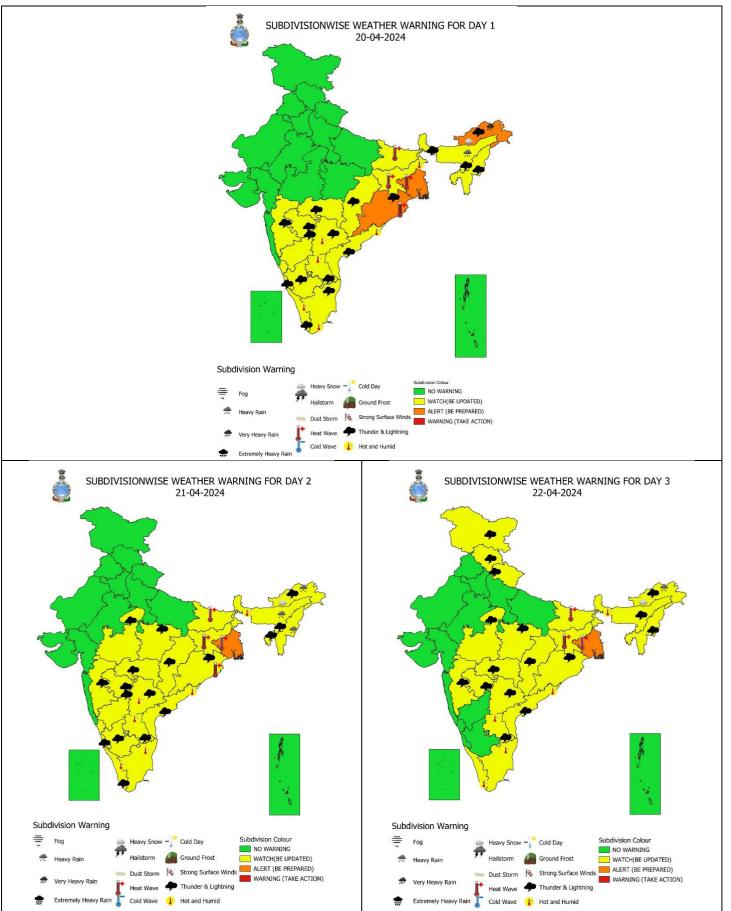
- Thunderstorm accompanied with lightning with gusty winds (speed reaching 30-40 kmph) likely at isolated places over Vidarbha, Chhattisgarh, West Bengal & Sikkim, Assam & Meghalaya and Telangana; with lightning at isolated places over Odisha, Jharkhand, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- Heavy rainfall/snowfall likely at isolated places over northeast Assam and Arunachal Pradesh.
- Hot and humid weather likely to prevail over Sub-Himalayan West Bengal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Heat wave conditions likely to prevail in isolated pockets over Gangetic West Bengal and Bihar.



### राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



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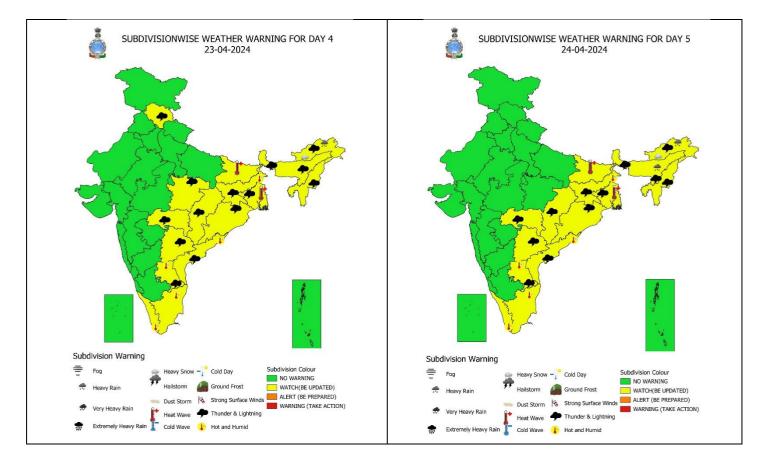
\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since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



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Impact & Action Suggested due to heavy rainfall/snowfall heavy rainfall/snowfall over

Arunachal Pradesh during 20<sup>th</sup>-24<sup>th</sup>; Assam & Meghalaya during 20<sup>th</sup>, 21<sup>st</sup> & 24<sup>th</sup> and Nagaland, Manipur, Mizoram & Tripura on 21<sup>st</sup> April, 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:**

### Orange alert Areas (Odisha & 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 & Bihar)

- 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.





	WARNING Probabilistic Forecast			
	WARNING (TAKE ACTION)	Terms Probability of Occurrence (%)		
	ALERT ( BE PREPARED)	Unlikely	< 25	
	WATCH (BE UPDATED)	Likely Very Likely	<u>25 - 50</u> 50 - 75	
	NO WARNING ( NO ACTION)	Most Likely	> 75	
ain/ Snow *	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *			
<b>Ĵ+</b> 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			
	( 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	Warm Night:   When minimum temperature departure 4.5 °C to 6.4 °C.     Severe Warm Night:   When minimum temperature departure >6.4 °C.			
	give the minimum ter	paratar a departure 20		
<b>〕−</b> 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)			
	<b>Cold Wave :</b> 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			
<b>∏−</b> Cold Day	When minimum temperature of a s Based on departure	tation ≤10°C for pl	ains and ≤0°C for hilly regions	
	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 ai	and the horizontal visibility < 1kn	
Ø	Moderate Fog: When the visibility between 500-200 metres			
Fog	Dense Fog: when the visibility between			
rog	Very Dense Fog: when the visibility < 50	metres		
<b>Ff</b> hunderstorm	Sudden electrical discharges manif sound (thunder)	ested by a flash of I	ight (Lightning) and a sharp rumbling	
Dust/Sand Storm	An ensemble of particles of dust or turbulent wind.	sand energetically	lifted to great heights by a strong and	
"	Ice deposits on ground			
22	Air temperature ≤4°C ( over Plains)			
Frost	A strong wind that rises sudde	enly, lasts for atle	east 1 minute.	
Frost				
Frost Fr	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph			
Frost 97 Squall	Moderate: Wind speed 52-61 kmph			
97	Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed >87 kmph	over specific area		
97	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   Rough to very rough: Wind speed 41-6	2 kmph (22-33 knots) 8		
۶۲ 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   Rough to very rough: Wind speed 41-6   High to very high: Wind speed 63-117 k	2 kmph (22-33 knots) & mph ( 34-63 knots) & V	/ave height 6-14 metre	
97	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   Rough to very rough: Wind speed 41-6	2 kmph (22-33 knots) & mph ( 34-63 knots) & V	/ave height 6-14 metre	
FF 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   Rough to very rough: Wind speed 41-6   High to very high: Wind speed 63-117 k   Phenomenal: Wind speed >117 kmph (>   Cyclonic Storm: Wind speed 62-87 kmph	2 kmph (22-33 knots) & mph ( 34-63 knots) & V 63 knots) & Wave heig h (34-47 knots)	/ave height 6-14 metre ht >14 metre	
۶۲ 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   Rough to very rough: Wind speed 41-6   High to very high: Wind speed 63-117 k   Phenomenal: Wind speed >117 kmph (>   Cyclonic Storm: Wind speed 62-87 kmp   Severe Cyclonic Storm: Wind speed 88	i2 kmph (22-33 knots) & mph ( 34-63 knots) & V 63 knots) & Wave heig h (34-47 knots) 3-117 kmph (48-63 knot	/ave height 6-14 metre t >14 metre s)	
۶۲ 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   Rough to very rough: Wind speed 41-6   High to very high: Wind speed 63-117 k   Phenomenal: Wind speed >117 kmph (>   Cyclonic Storm: Wind speed 62-87 kmph	2 kmph (22-33 knots) & mph ( 34-63 knots) & V 63 knots) & Wave heig h (34-47 knots) 3-117 kmph (48-63 knot eed 118-165 kmph (64 -	/ave height 6-14 metre t >14 metre s) 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.