



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Tuesday, April 23, 2024 Time of Issue: 0800 hours IST (MORNING)

All India Impact Based Weather Warning Bulletin

23 April (Day 1):

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

24 April (Day 2):

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





25 April (Day 3):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over East Rajasthan, West Madhya Pradesh and Chhattisgarh.
- Hot and humid weather likely to prevail over Assam, west Meghalaya, Tripura, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Coastal Karnataka.
- Heat wave to severe heat wave conditions likely to prevail in isolated pockets over Gangetic West Bengal; heat wave conditions in isolated pockets over Uttar Pradesh, Sub-Himalayan West Bengal, Jharkhand, Odisha, Bihar and Interior Karnataka.

26 April (Day 4):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Rajasthan, West Madhya Pradesh and Chhattisgarh; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Punjab.
- Hot and humid weather likely to prevail over Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Coastal Karnataka.
- Heat wave to severe heat wave conditions likely to prevail in isolated pockets over Gangetic West Bengal; heat wave conditions in isolated pockets over Uttar Pradesh, Sub-Himalayan West Bengal, Jharkhand, Odisha, Bihar and Interior Karnataka.

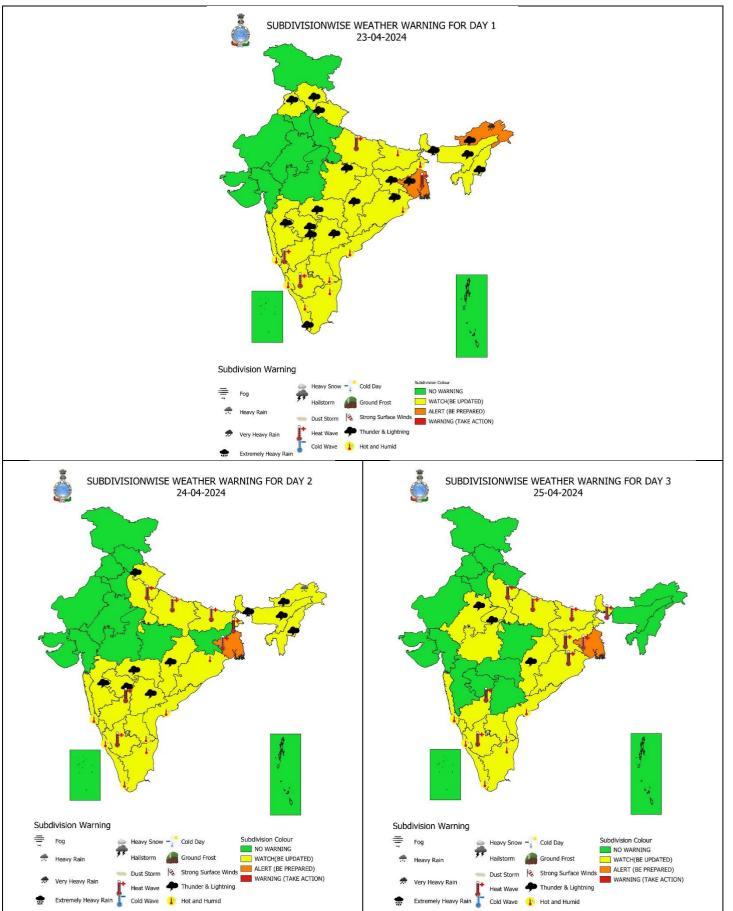
27 April (Day 5):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over East Rajasthan, West Madhya Pradesh and Chhattisgarh; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana-Chandigarh-Delhi and Punjab.
- Thunderstorm/Duststorm accompanied with lightning likely at isolated places over West Rajasthan.
- Hot and humid weather likely to prevail over Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Coastal Karnataka.
- Heat wave to severe heat wave conditions likely to prevail in isolated pockets over Gangetic West Bengal, Odisha; heat wave conditions in isolated pockets over Uttar Pradesh, Sub-Himalayan West Bengal, Jharkhand, Bihar and Interior Karnataka.





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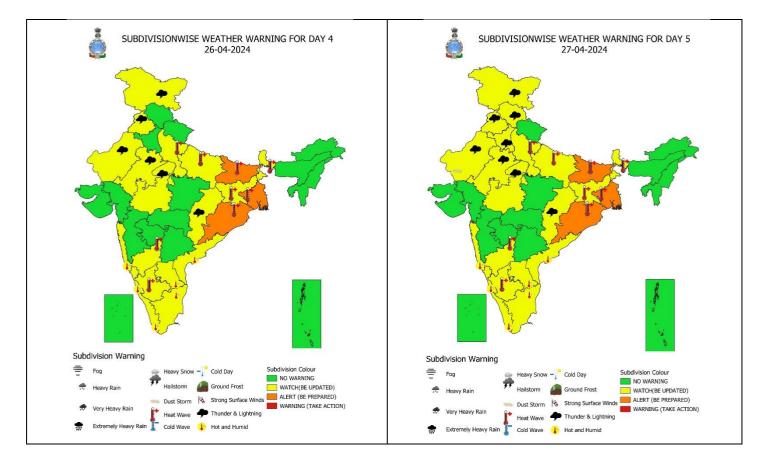


* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since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





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Impact & Action Suggested due to heavy/very heavy rainfall over Arunachal Pradesh during 23rd-24th 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 (Bihar, 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 (Uttar Pradesh, Jharkhand, interior Karnataka)

- Moderate temperature & heat is tolerable for general public but moderate health concernlikely 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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	WARNING Probabilistic Forecast
	WARNING (TAKE ACTION) Terms Probability of Occurrence (%)
	ALERT (BE PREPARED) Unlikely < 25 Likely 25 - 50
_	WATCH (BE UPDATED) Very Likely 50 - 75
	NO WARNING (NO ACTION) Most Likely > 75
*/\$	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm * Extremely Heavy: > 204.4 mm/cm *
Rain/ Snow "	Extremely Heavy: > 204.4 min/cm
	When maximum temperature of a station reaches \geq 40° C for plains and \geq 30° C for hilly region (a) Based on Departure from normal
j+ Heat Wave	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
<u>]</u> +	When maximum temperature remains 40°C Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
Warm Night	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ C for hilly regions.
∏ – Cold Wave	(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
	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 \leq -4.5 °C & actual Minimum Temperature is \leq 15 °C
0	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
<u>u</u> –	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
Cold Day	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small dronlets suspended in air and the horizontal visibility of the
Æ	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres
S	Dense Fog: when the visibility between 50-200 metres
Fog	
	Very Dense Fog: when the visibility < 50 metres
-	Very Dense Fog: when the Visibility < 50 metres
<u></u> <u></u>	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling
F F hunderstorm	
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	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and
Dust/Sand	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
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Dust/Sand	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
Dust/Sand Storm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
Dust/Sand	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains)
Dust/Sand Storm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute.
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Dust/Sand Storm Frost	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-87 kmph Very Severe: Wind speed >87 kmph Effect of various waves in the sea over specific area
Storm SS Frost Frost	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) 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 52-78 kmph 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
Dust/Sand Storm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-87 kmph Very Severe: Wind speed >87 kmph Effect of various waves in the sea over specific area
Dust/Sand Storm Frost Squall	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed 62-87 kmph Very Severe: Wind speed 52-61 kmph 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
Dust/Sand Storm Frost Squall	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) 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 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed 62-87 kmph 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 5117 kmph (>63 knots) & Wave height >14 metre Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
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Dust/Sand Storm Frost Squall	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) 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 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed 62-87 kmph 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 Cyclonic Storm: Wind speed 62-87 kmph (34-47 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.

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