

ाष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Thursday, April 18, 2024 Time of Issue: 2015 hours IST (NIGHT)

All India Impact Based Weather Warning Bulletin

18 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, Nagaland, Manipur, Mizoram & Tripura and North Interior Karnataka; with lightning, gusty winds (speed reaching 30-40 kmph) & hailstorm at isolated places over Himachal Pradesh; with lightning & hailstorm at isolated places over Madhya Maharashtra, Marathwada; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Rajasthan, Assam & Meghalaya; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, East Rajasthan, West Uttar Pradesh, Telangana Arunachal Pradesh, Konkan & Goa, Kerala & Mahe, Rayalaseema, Coastal & South Interior Karnataka.
- **Heavy rainfall** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura.
- Hot and humid weather very likely to prevail over Gujarat state, Konkan and Kerala & Mahe.
- Heat wave to severe heat wave very likely to prevail in isolated pockets over Odisha, Heat wave in isolated pockets over Gangetic West Bengal, Madhya Maharashtra, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- Warm Night very likely to prevail in isolated pockets over Rayalaseema.

19 April (Day 2):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) & hailstorm very likely at isolated places over Himachal Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Karnataka; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Vidarbha, Chhattisgarh, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- Heavy rainfall/snowfall very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Arunachal Pradesh; Heavy rainfall at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and South Interior Karnataka.
- Hot and humid weather very likely to prevail over Konkan.
- Heat wave to severe heat wave very likely to prevail in some pockets over Gangetic West Bengal; in isolated pockets over Odisha; heat wave in isolated pockets over Jharkhand, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- Warm Night very likely to prevail in isolated pockets over Rayalaseema.
- Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph very likely to prevail over off north Andhra Pradesh and south Odisha coasts. Fishermen are advised not to venture into these areas.





20 April (Day 3):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Vidarbha and Chhattisgarh; with gusty winds (speed reaching 30-40 kmph) at isolated places over Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, 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, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal & South Interior Karnataka.
- Heavy to very 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 Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- Heat wave to severe heat wave very likely to prevail in some pockets over Gangetic West Bengal; heat wave in isolated pockets over Bihar, Jharkhand, Odisha.
- Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph very likely to prevail over off north Andhra Pradesh and south Odisha coasts. Fishermen are advised not to venture into these areas.

21 April (Day 4):

- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Vidarbha, Odisha and Chhattisgarh; with gusty winds (speed reaching 30-40 kmph) at isolated places over Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana; with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Kerala & Mahe and North Interior Karnataka.
- 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 Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, 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 in isolated pockets over Bihar, Jharkhand and Odisha.

22 April (Day 5):

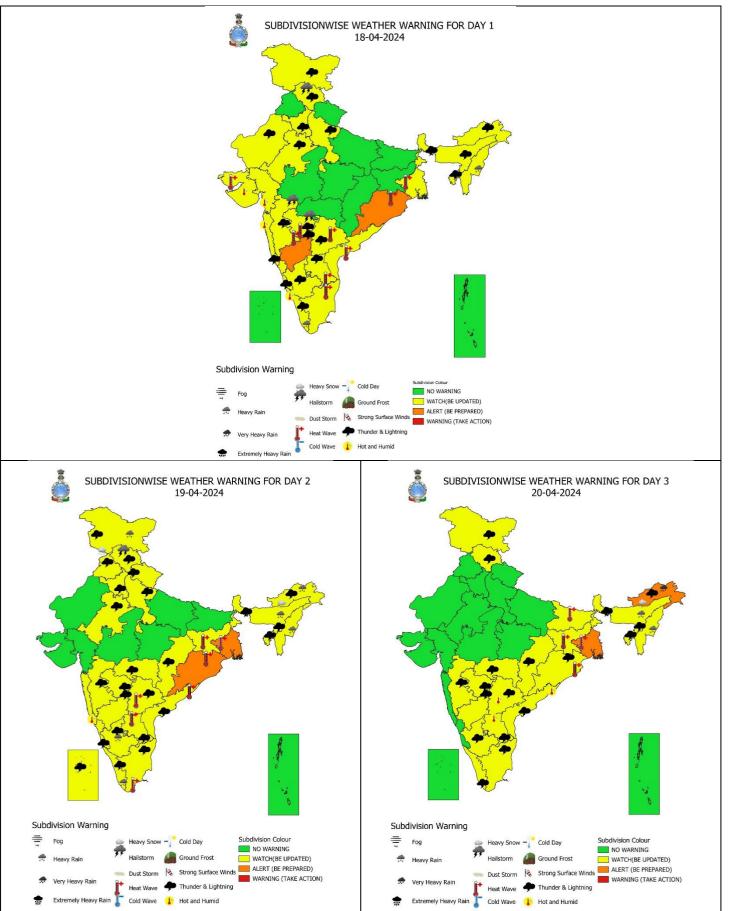
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Chhattisgarh and Odisha; with gusty winds (speed reaching 30-40 kmph) at isolated places over West Madhya Pradesh, Vidarbha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with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



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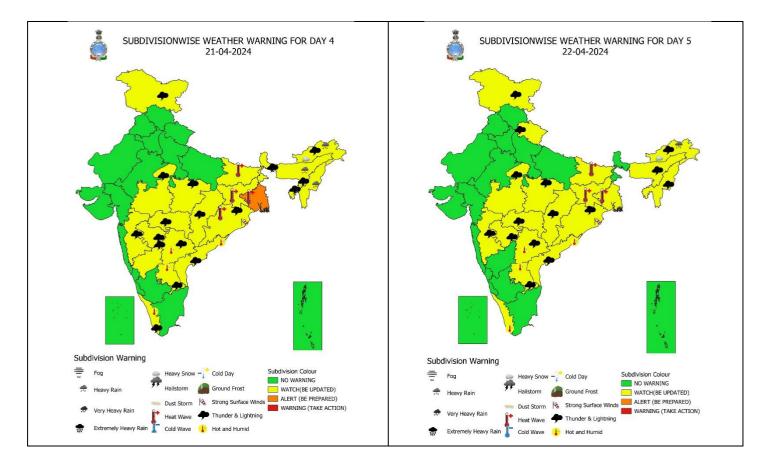
* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 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 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 & 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, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and interior 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.



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	LEGENDS WARNING Probabilistic Forecast
	WARNING (TAKE ACTION) Terms Probability of Occurrence (%) ALERT (RE REFERENCE) Unlikely < 25
	Likely 25 - 50
	WATCH (BE UPDATED) Very Likely 50 - 75
	NO WARNING (NO ACTION) Most Likely > 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 *
	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.
j+ Heat Wave	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
۹.	When maximum temperature remains 40°C
Warm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
ann Aight	Severe Warm Night: When minimum temperature departure >6.4 °C.
∏− 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 Temperature is ≤ 15 °C
	When minimum temperature of a station \leq 10°C for plains and \leq 0°C for hilly regions
∏ – Cold Day	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 visibility < 1km
Ø	Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 50- 200 metres
rog	Very Dense Fog: when the visibility < 50 metres
<i>FF</i> hunderstorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
hunderstorm 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.
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Dust/Sand Storm	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
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Dust/Sand Storm Frost Squall	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 Rough to very rough: Wind speed 41-62 kmph (32-33 knots) & Wave height 2.5-6 metre High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
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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.