

Friday, April 26, 2024
Time of Issue: 2000 hours IST
(NIGHT)

All India Impact Based Weather Warning Bulletin

26 April (Day 1):

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

27 April (Day 2):

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

28 April (Day 3):

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

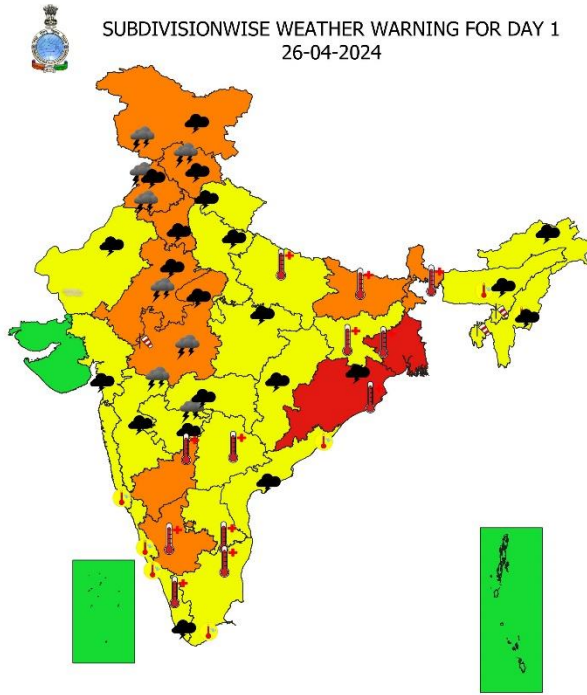
29 April (Day 4):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 30-40 kmph) & hailstorm** likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Telangana; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Arunachal Pradesh and Konkan & Goa.
- ❖ **Heavy rainfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- ❖ **Hot and humid weather** likely to prevail over Konkan & Goa, Coastal Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in many parts of Gangetic West Bengal; in some parts of Odisha; in isolated pockets over Sub-Himalayan West Bengal; **heat wave conditions** in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Konkan & Goa, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

30 April (Day 5):

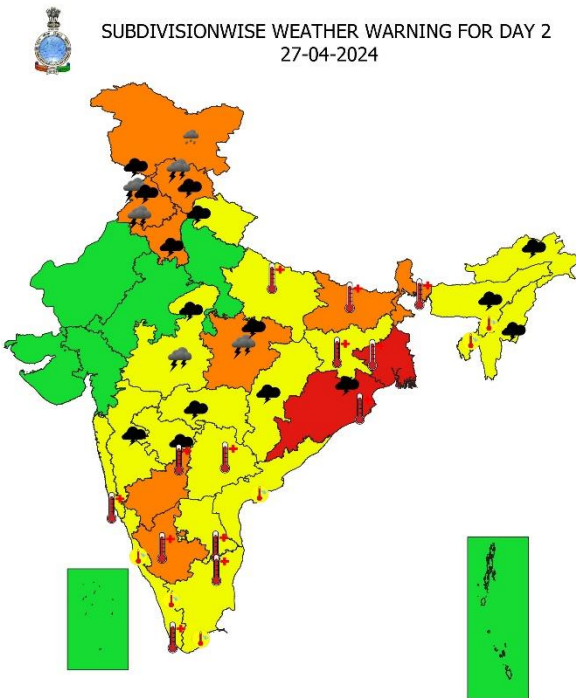
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Uttarakhand and Telangana; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Hot and humid weather** likely to prevail over Konkan & Goa, Coastal Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in many parts of Gangetic West Bengal; in some parts of Odisha; in isolated pockets over Sub-Himalayan West Bengal; **heat wave conditions** in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
 26-04-2024



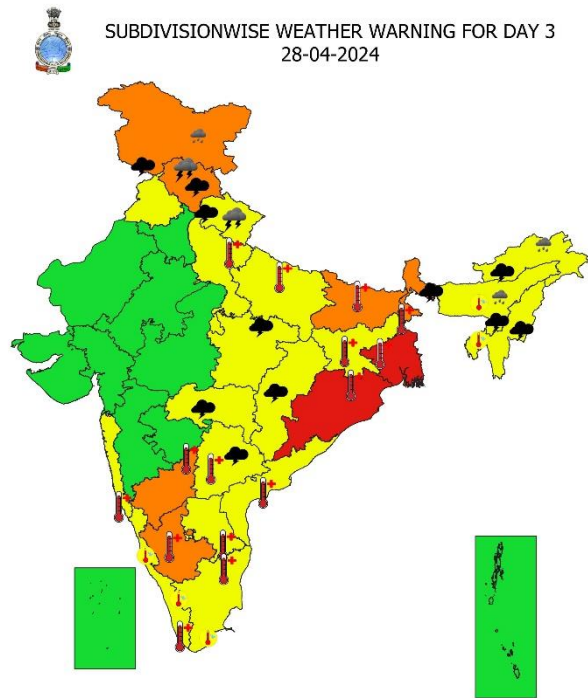
- Subdivision Warning**
- | | | | |
|----------------------|---------------|----------------------|---------------------------|
| Fog | Heavy Snow | Cold Day | Subdivision Colour |
| Hailstorm | Ground Frost | Strong Surface Winds | NO WARNING |
| Heavy Rain | Dust Storm | Heat Wave | WATCH (BE UPDATED) |
| Very Heavy Rain | Cold Wave | Thunder & Lightning | ALERT (BE PREPARED) |
| Extremely Heavy Rain | Hot and Humid | | WARNING (TAKE ACTION) |

SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
 27-04-2024



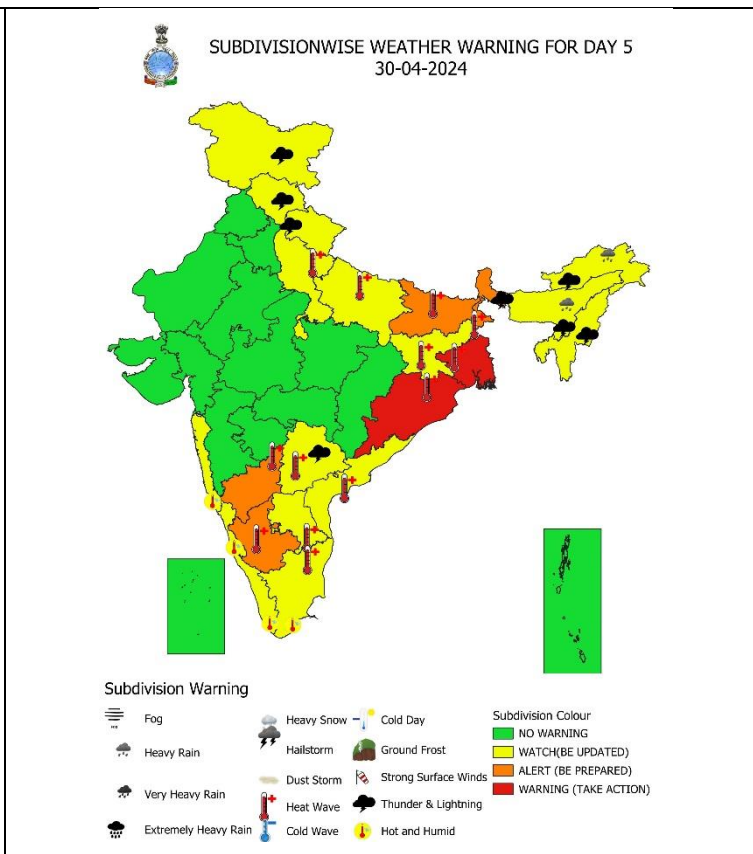
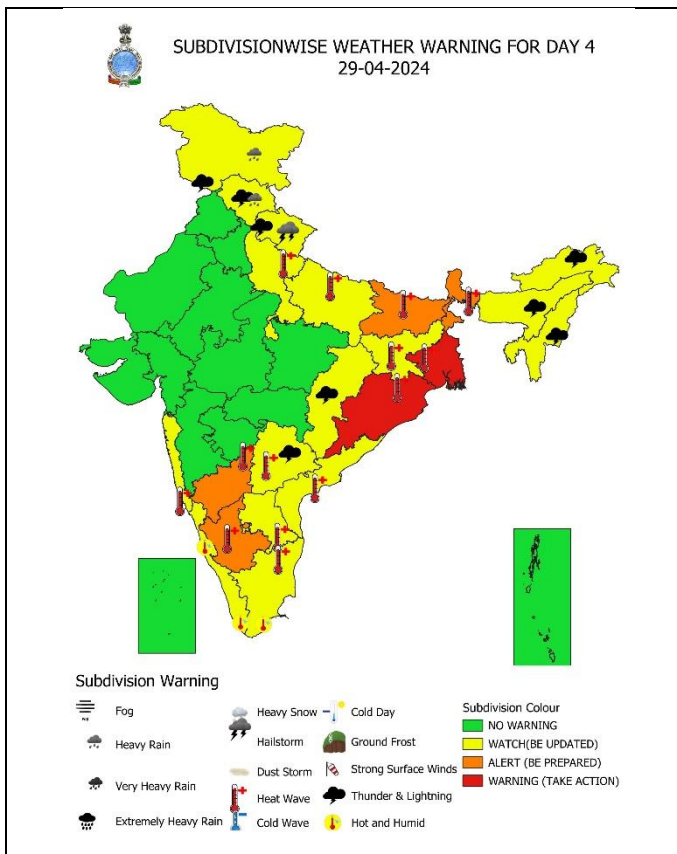
- Subdivision Warning**
- | | | | |
|----------------------|---------------|----------------------|---------------------------|
| Fog | Heavy Snow | Cold Day | Subdivision Colour |
| Hailstorm | Ground Frost | Strong Surface Winds | NO WARNING |
| Heavy Rain | Dust Storm | Heat Wave | WATCH (BE UPDATED) |
| Very Heavy Rain | Cold Wave | Thunder & Lightning | ALERT (BE PREPARED) |
| Extremely Heavy Rain | Hot and Humid | | WARNING (TAKE ACTION) |

SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
 28-04-2024



- Subdivision Warning**
- | | | | |
|----------------------|---------------|----------------------|---------------------------|
| Fog | Heavy Snow | Cold Day | Subdivision Colour |
| Hailstorm | Ground Frost | Strong Surface Winds | NO WARNING |
| Heavy Rain | Dust Storm | Heat Wave | WATCH (BE UPDATED) |
| Very Heavy Rain | Cold Wave | Thunder & Lightning | ALERT (BE PREPARED) |
| Extremely Heavy Rain | Hot and Humid | | WARNING (TAKE ACTION) |

*** 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)



Impact expected and action suggested due to thunderstorm accompanied with lightning/gusty winds & Hailstorm over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Madhya Maharashtra and Marathwada on 26th; West Madhya Pradesh on 26th & 27th; Himachal Pradesh, Punjab and Haryana-Chandigarh on 26th & 27th; Uttarakhand on 27th & 28th 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 over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 27th-29th; Himachal Pradesh on 29th and Arunachal Pradesh and Assam & Meghalaya on 28th & 30th 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:

Red alert Areas (Gangetic West Bengal & Odisha)

- ❖ Very high likelihood of developing heat illness and heat stroke in all ages.
- ❖ Extreme care needed for vulnerable people.

Orange alert Areas (Sub-Himalayan West Bengal, Bihar & Interior Karnataka)

- ❖ 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 (East Uttar Pradesh, Jharkhand, Konkan, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu and Kerala & Mahe)

- ❖ 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.

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

- Use hail nets or hail caps in fruit orchards to prevent mechanical damage and provide mechanical support to horticultural crops & staking to vegetables in Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, East Rajasthan, Madhya Pradesh and Marathwada. Keep the harvested produce at safer places or cover the heaps of harvested produce in the fields with tarpaulin sheets.
- In Jammu & Kashmir, withhold harvesting and threshing of wheat, mustard, late sown pea, chickpea and lentil; cover the already harvested produce with polythene sheet or tarpaulin; postpone transplanting of cucurbits and solanaceous vegetables and make necessary arrangements for draining out excess water from crop fields to avoid water stagnation.
- Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimise evaporation in West Bengal, Odisha, Bihar, Jharkhand, East Uttar Pradesh, Kerala, Interior Karnataka, Rayalaseema and Telangana.
- Provide mechanical support to horticultural crops & staking to vegetables to prevent damage from gusty winds.

LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
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 *



Heat Wave
 When maximum temperature of a station reaches $\geq 40^\circ\text{C}$ for plains and $\geq 30^\circ\text{C}$ for hilly regions
(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 $\geq 6.5^\circ\text{C}$
(b). Based on Actual maximum temperature
 Heat Wave: When actual maximum temperature $\geq 45^\circ\text{C}$.
 Severe Heat Wave: When actual maximum temperature $\geq 47^\circ\text{C}$
(c). Criteria for heat wave for coastal stations
 When maximum temperature departure is $>4.5^\circ\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ\text{C}$



Warm Night
 When maximum temperature remains 40°C
 Warm Night: When minimum temperature departure 4.5°C to 6.4°C .
 Severe Warm Night: When minimum temperature departure $>6.4^\circ\text{C}$.



Cold Wave
 When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ 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 $\leq -6.5^\circ\text{C}$
(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 $\leq 2.0^\circ\text{C}$
(c) For Coastal Stations
 When Minimum Temperature departure is $\leq -4.5^\circ\text{C}$ & actual Minimum Temperature is $\leq 15^\circ\text{C}$



Cold Day
 When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions
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 $\leq -6.5^\circ\text{C}$



Fog
Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
 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



Thunderstorm
 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm
 An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost
Ice deposits on ground
 Air temperature $\leq 4^\circ\text{C}$ (over Plains)



Squall
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 >87 kmph



Sea State
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



Cyclone
 Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
 Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
 Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
 Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
 Super Cyclone Storm: Wind speed >220 kmph (>119 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.