

Saturday, May 04, 2024  
Time of Issue: 1945 hours IST  
(NIGHT)

## All India Impact Based Weather Warning Bulletin

### 04 May (Day 1):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal; **with lightning, gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Rayalaseema and Kerala & Mahe; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Chhattisgarh, Telangana, Gangetic West Bengal and Arunachal Pradesh.
- ❖ **Heavy rainfall** at isolated places over Arunachal Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over Sub-Himalayan West Bengal, Bihar, Jharkhand, west Assam, Tripura, Konkan, Gujarat State, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heat wave conditions** very likely to prevail in some parts over Gangetic West Bengal; in isolated pockets over Chhattisgarh, Odisha, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Kerala & Mahe, Coastal Karnataka and South Interior Karnataka.
- ❖ **Squally wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** very likely to prevail along and off south Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

### 05 May (Day 2):

- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Gangetic West Bengal, Bihar, Odisha, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Rayalaseema; **with lightning** at isolated places over Arunachal Pradesh.
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim.
- ❖ **Hot and humid weather** very likely to prevail over Sub-Himalayan West Bengal, Bihar, Jharkhand, Konkan, Gujarat State, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over Gangetic West Bengal, Chhattisgarh, Odisha, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Coastal Karnataka and South Interior Karnataka.
- ❖ **Squally wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** very likely to prevail along and off south Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

#### 06 May (Day 3):

- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph gusting to 70 kmph )** very likely at isolated places over Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Rayalaseema and Coastal Andhra Pradesh & Yanam; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, Jharkhand, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Telangana; **with lightning** at isolated places over Arunachal Pradesh, Marathwada and Karnataka.
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura **with isolated extremely heavy falls over Meghalaya; heavy rainfall** at isolated places over Arunachal Pradesh and Gangetic West Bengal.
- ❖ **Hot and humid weather** very likely to prevail over Konkan, Gujarat State, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over Chhattisgarh, Saurashtra & Kutch, Telangana and Interior Karnataka.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Coastal Karnataka and South Interior Karnataka.
- ❖ **Squally wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** very likely to prevail along and off Odisha, West Bengal & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

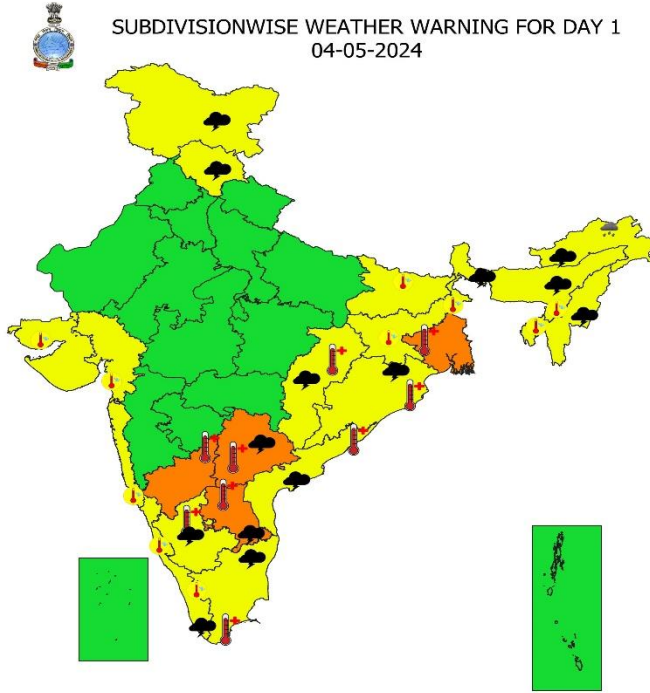
#### 07 May (Day 4):

- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph gusting to 70 kmph)** likely at isolated places over Gangetic West Bengal, Bihar and East Madhya Pradesh; **with lightning, gusty winds (speed reaching 40-50 kmph) & hail** at isolated places over Interior Karnataka; **with lightning, gusty winds (speed reaching 40-50 kmph)** at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **with lightning** at isolated places over Coastal Karnataka, Assam & Meghalaya.
- ❖ **Heavy rainfall** likely at isolated places over Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka.
- ❖ **Hot and humid weather** very likely to prevail over Gujarat State, Coastal Karnataka, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over West Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Interior Karnataka.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Coastal Karnataka and South Interior Karnataka.
- ❖ **Squally wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** likely to prevail along and off Odisha, West Bengal & north Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

#### 08 May (Day 5):

- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph gusting to 70 kmph)** likely at isolated places over East Madhya Pradesh; **with lightning, gusty winds (speed reaching 40-50 kmph) & hail** at isolated places over South Interior Karnataka; **with lightning, gusty winds (speed reaching 40-50 kmph)** at isolated places over East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and North Interior Karnataka; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, West Bengal & Sikkim, Bihar, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka.
- ❖ **Heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ **Hot and humid weather** very likely to prevail over Gujarat State, Coastal Karnataka, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over Rajasthan, Saurashtra & Kutch, West Madhya Pradesh.
- ❖ **Squally wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** likely to prevail along and off Odisha & West Bengal coasts. Fishermen are advised not to venture into these areas.

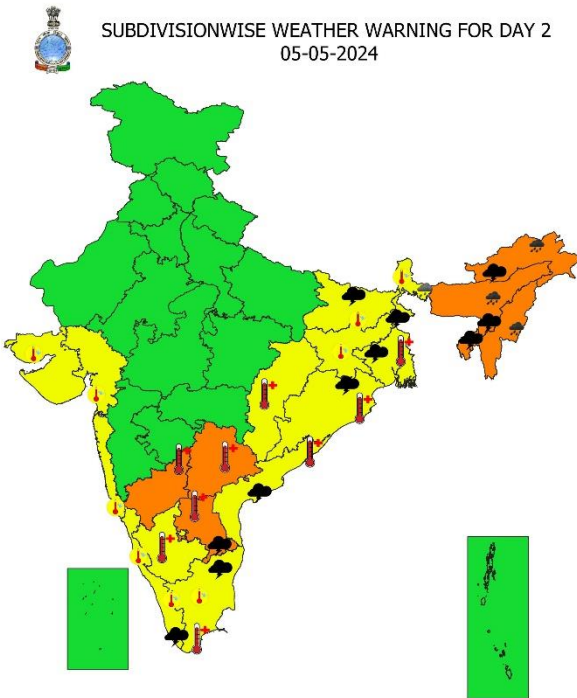
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1  
 04-05-2024



Subdivision Warning

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

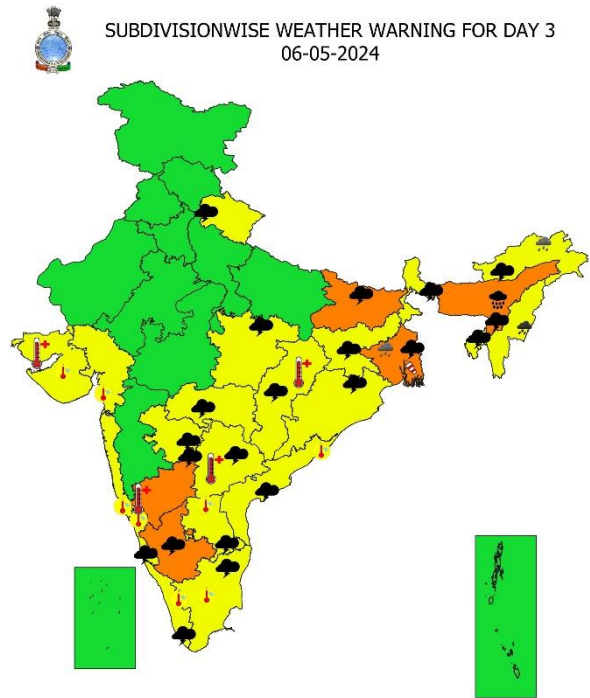
SUBDIVISIONWISE WEATHER WARNING FOR DAY 2  
 05-05-2024



Subdivision Warning

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

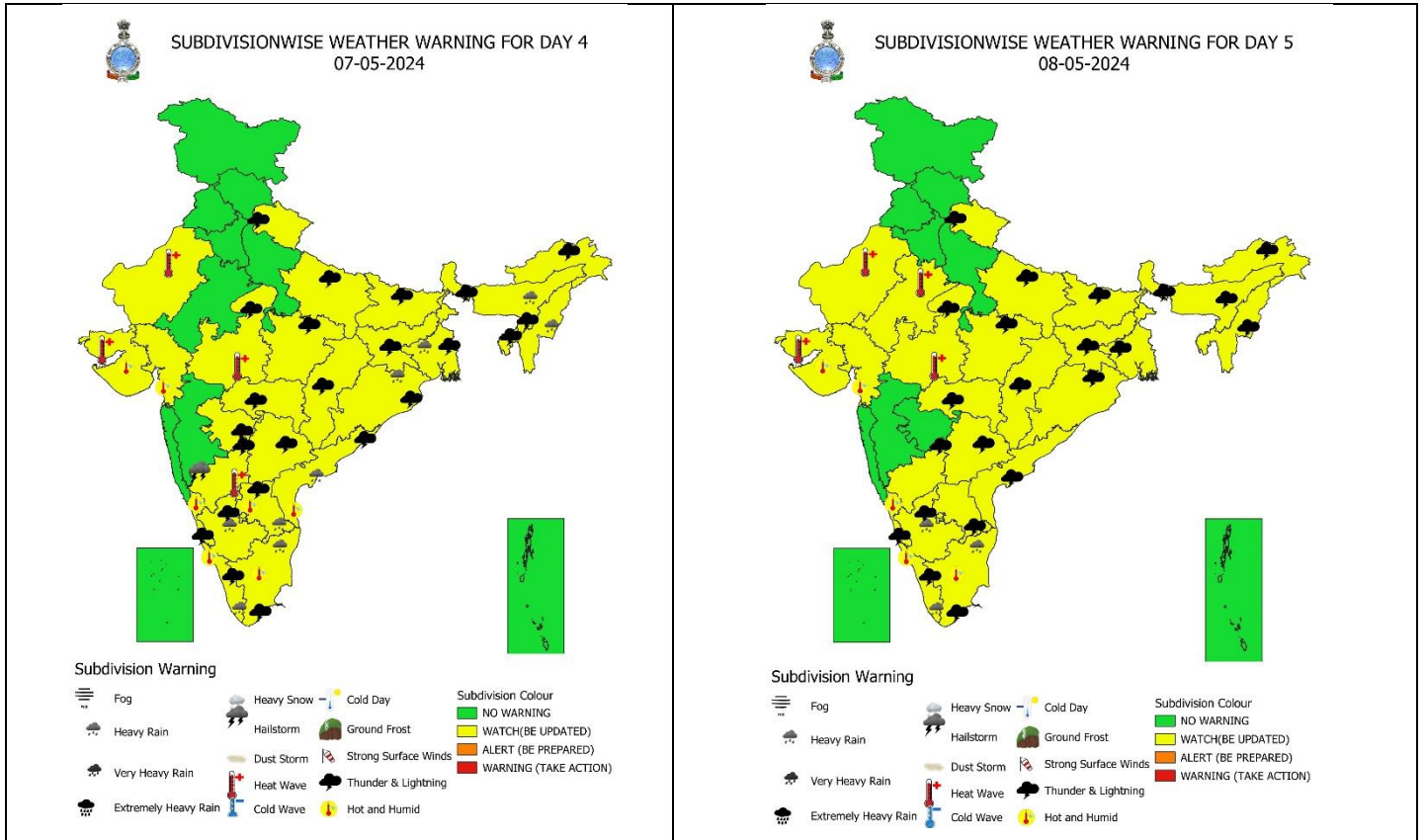
SUBDIVISIONWISE WEATHER WARNING FOR DAY 3  
 06-05-2024



Subdivision Warning

- |                      |            |                      |                           |
|----------------------|------------|----------------------|---------------------------|
| Fog                  | Heavy Snow | Cold Day             | <b>Subdivision Colour</b> |
| Heavy Rain           | Hailstorm  | Ground Frost         | NO WARNING                |
| Very Heavy Rain      | Dust Storm | Strong Surface Winds | WATCH (BE UPDATED)        |
| Extremely Heavy Rain | Heat Wave  | Thunder & Lightning  | ALERT (BE PREPARED)       |
|                      | Cold Wave  | 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 & ACTION SUGGESTED due to Heat Wave Conditions:**

**Red alert Areas**

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

**Orange alert Areas**

- ✓ 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**

- ✓ 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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**Impact & Action Suggested due to Isolated heavy/very heavy rainfall over Sikkim on 05<sup>th</sup>; Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 05<sup>th</sup>-07<sup>th</sup>; Gangetic West Bengal on 06<sup>th</sup> & 07<sup>th</sup>; Coastal Andhra Pradesh and Rayalaseema on 07<sup>th</sup> and Tamil Nadu, South Interior Karnataka and Kerala on 07<sup>th</sup> & 08<sup>th</sup> May, 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.

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

- Make necessary arrangements for draining out excess water from crop fields to avoid water stagnation in North-Eastern States and Sikkim.
- In Arunachal Pradesh, postpone sowing of *Jhum* paddy, maize and soybean.
- Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimise evaporation in Gangetic West Bengal, Odisha, Tamil Nadu, Interior Karnataka, Andhra Pradesh 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  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
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  $40^\circ\text{C}$

Warm Night: When minimum temperature departure  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
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  $< 1\text{km}$

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.