

Sunday, May 05, 2024  
Time of Issue: 2000 hours IST  
(NIGHT)

## All India Impact Based Weather Warning Bulletin

### 05 May (Day 1):

- ❖ **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; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Vidarbha and Chhattisgarh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Telangana, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Arunachal Pradesh, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over Jharkhand, costal Gujarat, Saurashtra & Kutch, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **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 Vidarbha, Bihar, 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.

### 06 May (Day 2):

- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph gusting to 70 kmph )** very likely at isolated places over Gangetic West Bengal; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh and Sub-Himalayan West Bengal & Sikkim; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Telangana; **with lightning** at isolated places over Odisha, Arunachal Pradesh, Kerala & Mahe and Coastal Andhra Pradesh & Yanam.
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Gangetic West Bengal.
- ❖ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over Jharkhand, costal Gujarat, Saurashtra & Kutch, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over Vidarbha, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Telangana, Interior Karnataka.
- ❖ **Squally wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** very likely to prevail along and off Odisha, West Bengal & south Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

### 07 May (Day 3):

- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph gusting to 70 kmph)** likely at isolated places over Gangetic West Bengal; **with lightning, gusty winds (speed reaching 40-50 kmph) & hail** at isolated places over Vidarbha, Chhattisgarh, Jharkhand; **with lightning, gusty winds (speed reaching 40-50 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha and Telangana; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, East Uttar Pradesh, Marathwada, Tamil Nadu, Puducherry & Karaikal, Interior Karnataka; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya, and Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ **Heavy rainfall** likely at isolated places over Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- ❖ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over costal Gujarat, Saurashtra & Kutch, 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 West Rajasthan, Saurashtra & Kutch and Interior Karnataka.
- ❖ **Squally wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** very likely to prevail along and off Odisha, West Bengal & south Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

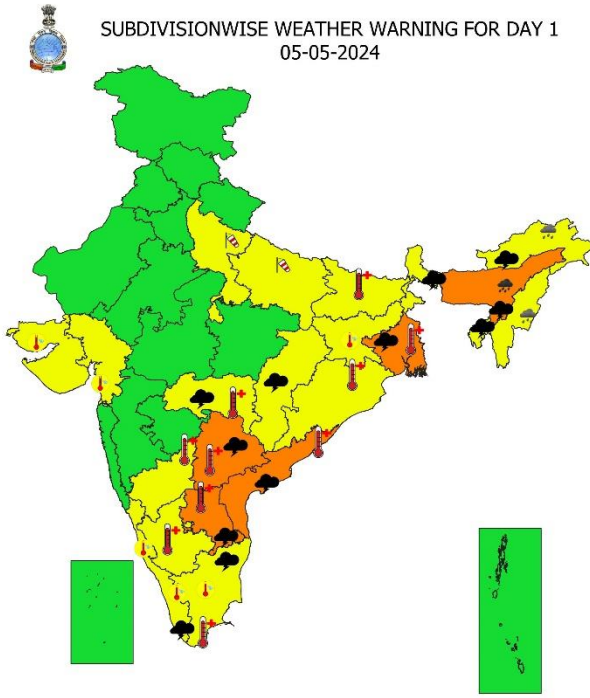
### 08 May (Day 4):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha and Telangana; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Interior Karnataka; **with lightning** at isolated places over Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.
- ❖ **Heavy rainfall** likely at isolated places over Odisha, Kerala & Mahe and Rayalaseema.
- ❖ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over costal Gujarat, Saurashtra & Kutch and Rayalaseema.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over Rajasthan, West Madhya Pradesh and Saurashtra & Kutch.
- ❖ **Squally wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** very likely to prevail along and off Odisha and West Bengal coasts. Fishermen are advised not to venture into these areas.

### 09 May (Day 5):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Jharkhand, Odisha and Rayalaseema; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, East Uttar Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Bihar, Odisha, , Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Telangana; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, East Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.
- ❖ **Heavy rainfall** likely at isolated places over Kerala & Mahe.
- ❖ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over costal Gujarat, Saurashtra & Kutch and Rayalaseema.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over Rajasthan, West Madhya Pradesh and Saurashtra & Kutch.

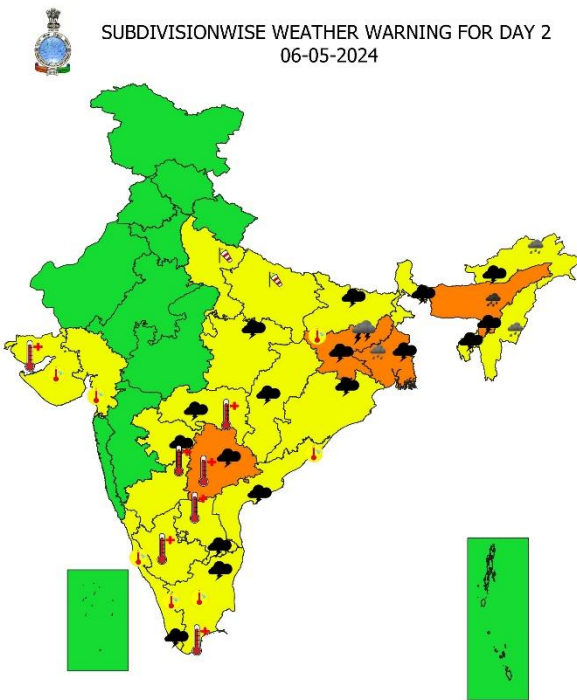
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 1  
 05-05-2024**



**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)

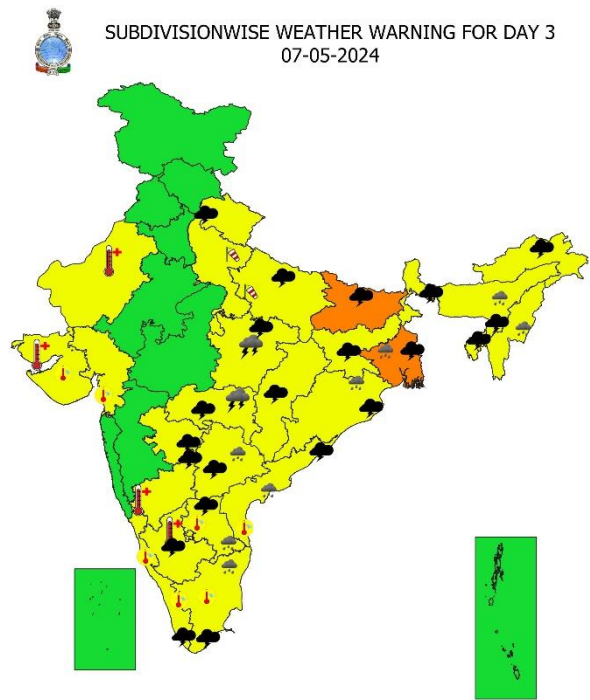
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 2  
 06-05-2024**



**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)

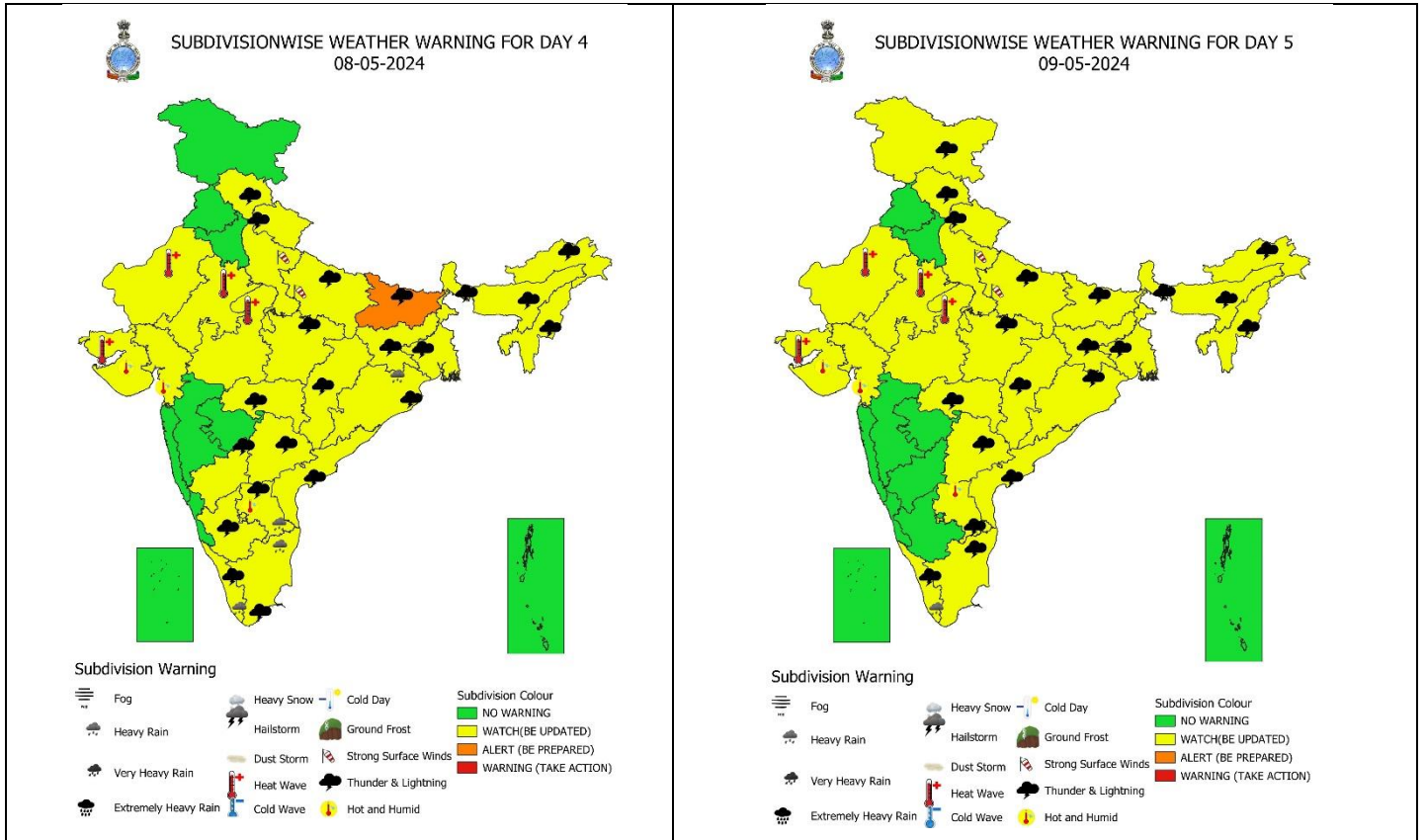
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 3  
 07-05-2024**



**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

- (i) **Isolated heavy to very heavy rainfall** over Assam & Meghalaya during 05<sup>th</sup>-07<sup>th</sup>;
- (ii) **heavy rainfall over** Arunachal Pradesh on 05<sup>th</sup> & 06<sup>th</sup>; 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>; Odisha, Tamil Nadu, Rayalaseema on 07<sup>th</sup> & 08<sup>th</sup>; South interior Karnataka on 07<sup>th</sup> ; Coastal Andhra Pradesh and Telangana on 07<sup>th</sup> Kerala on 08<sup>th</sup> & 09<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 Gangetic West Bengal.
- 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, Bihar, Saurashtra & Kutch, 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.

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