

**Saturday, June 01, 2024**  
**Time of Issue: 0800 hours IST**  
**(MORNING)**

## All India Impact Based Weather Warning Bulletin

### 01 June (Day 1):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya and Arunachal Pradesh; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, Haryana-Chandigarh-Delhi, Odisha, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Coastal & South Interior Karnataka; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Lakshadweep.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Uttar Pradesh and Rajasthan.
- ❖ **Heat wave conditions** very likely to prevail in some parts of Punjab, Haryana-Chandigarh-Delhi; in isolated pockets of East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over East Uttar Pradesh, Odisha.
- ❖ **Hot and humid weather** very likely to prevail over Konkan & Goa, Telangana, Rayalaseema.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph** gusting to 55 kmph very likely to prevail over Lakshadweep & Maldives areas, along and off south Kerala coast, Comorin area, Gulf of Mannar, southern parts of southwest & southeast Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph** gusting to 65 kmph likely to prevail along and off Somalia coast, Southwest and adjoining Westcentral Arabian sea. Fishermen are advised not to venture into these areas.

### 02 June (Day 2):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Arunachal Pradesh; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Konkan & Goa, Madhya Maharashtra, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Odisha, Kerala & Mahe, Telangana, Karnataka; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets of Punjab, West Rajasthan, Odisha.
- ❖ **Hot and humid weather** very likely to prevail over Konkan & Goa.
- ❖ **Thunderstorm/Duststorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Rajasthan.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Punjab and Haryana-Chandigarh-Delhi.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph** gusting to 55 kmph very likely to prevail over Lakshadweep & Maldives areas, along and off south Kerala coast, Comorin area, Gulf of Mannar, south & adjoining eastcentral Bay of Bengal, Andaman Sea. **Squally wind with wind speed 45 kmph to 55 kmph** gusting to 65 kmph likely to prevail along and off Somalia coast, Southwest and adjoining Westcentral Arabian sea, off Yemen coast. Fishermen are advised not to venture into these areas.

### 03 June (Day 3):

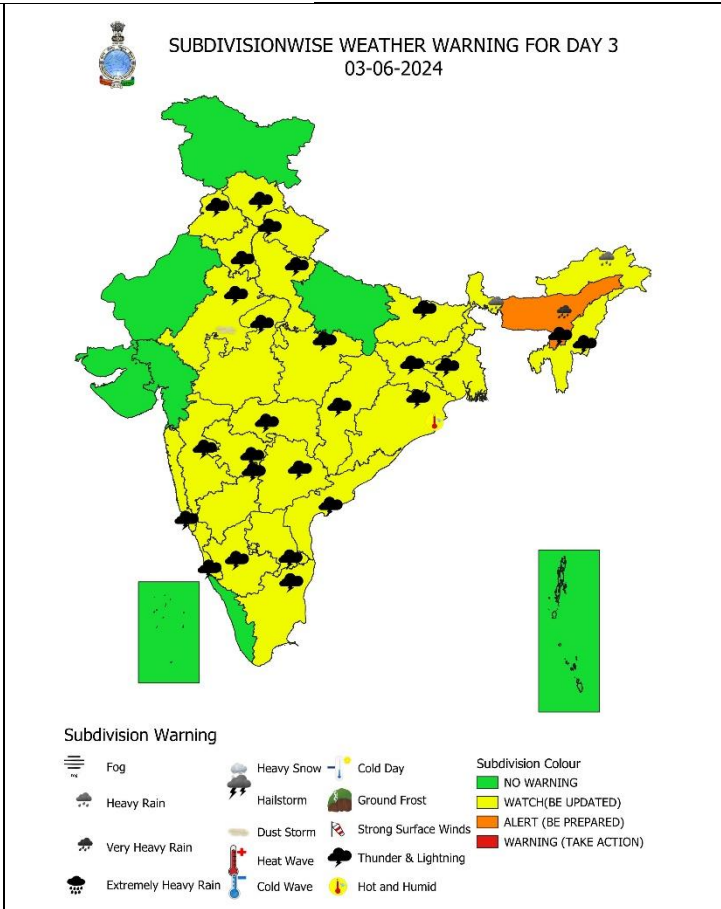
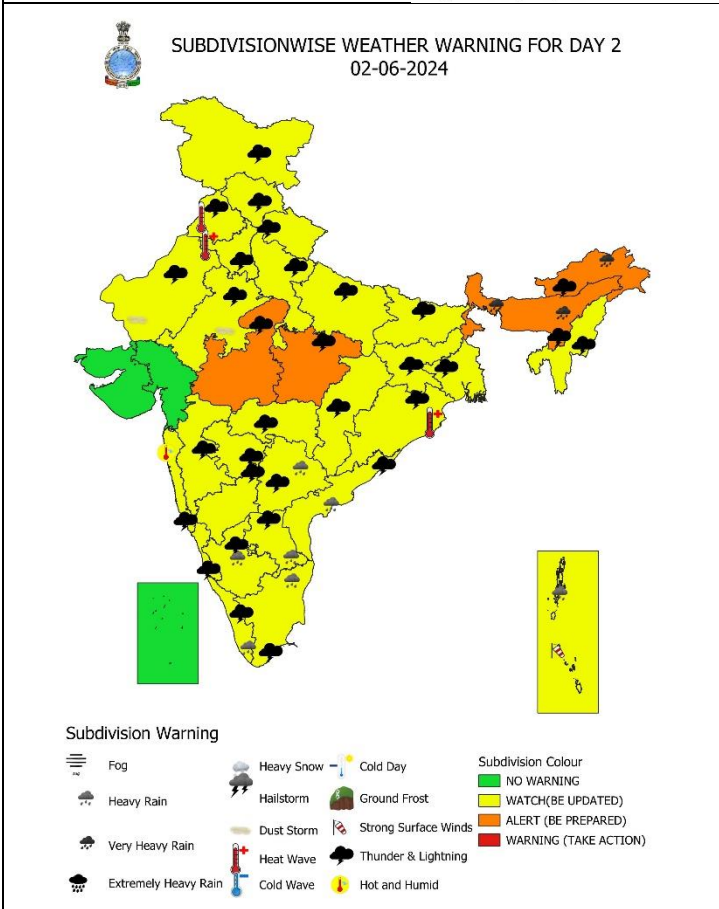
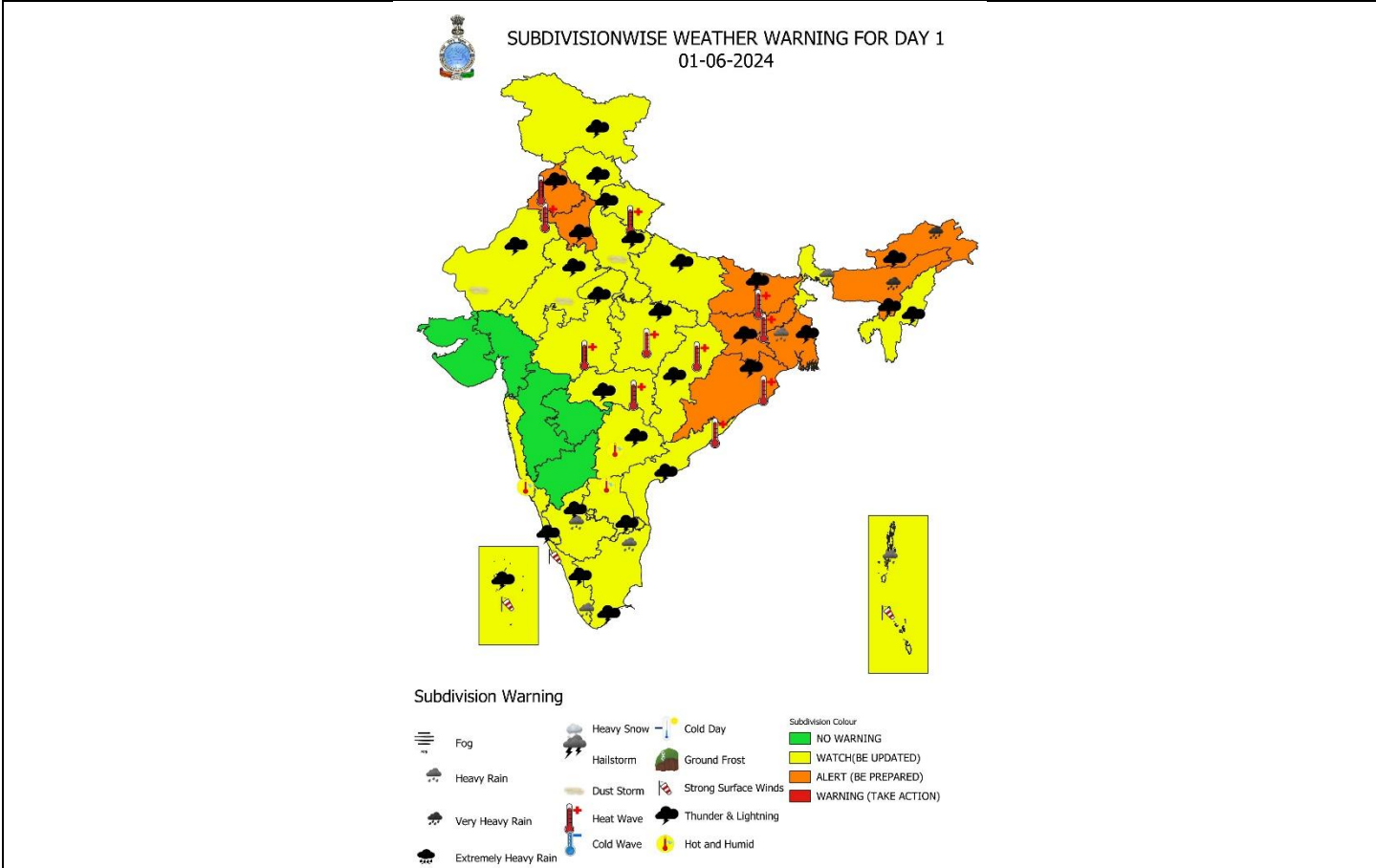
- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Konkan & Goa, Madhya Maharashtra, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, West Madhya Pradesh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka; **with lightning** at isolated places over Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over East Rajasthan.
- ❖ **Hot and humid weather** likely to prevail over Odisha.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over Comorin area, Gulf of Mannar, South & adjoining central Bay of Bengal along & off north Andhra Pradesh coast & adjoining Westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, southwest and westcentral Arabian sea, off Yemen coast. Fishermen are advised not to venture into these areas.

### 04 June (Day 4):

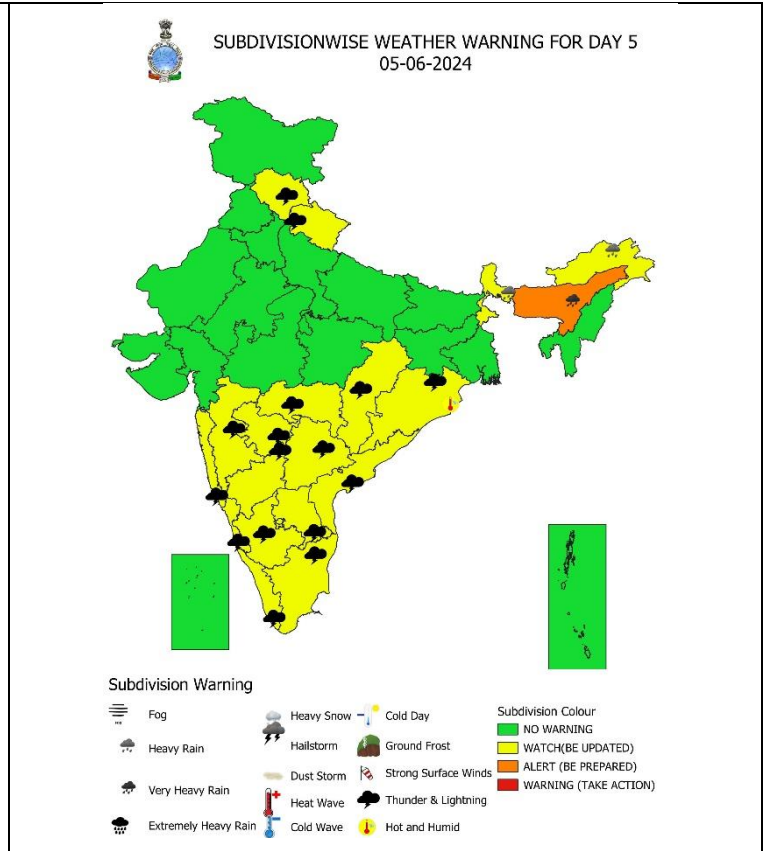
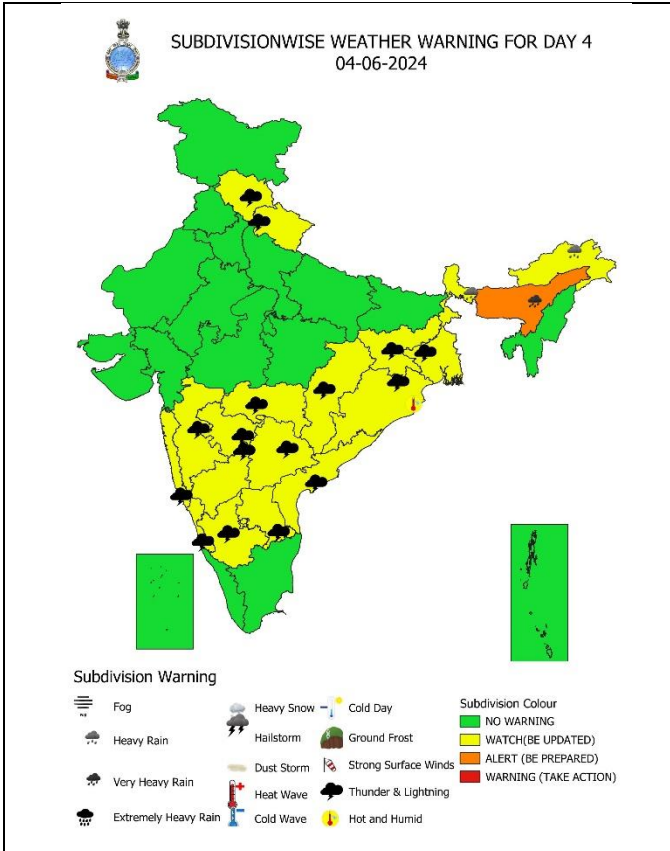
- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Vidarbha, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka; **with lightning** at isolated places over Jharkhand.
- ❖ **Hot and humid weather** likely to prevail over Odisha.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over South & adjoining central Bay of Bengal along & off north Andhra Pradesh coast & adjoining Westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, southwest and westcentral Arabian sea, off Yemen coast. Fishermen are advised not to venture into these areas.

### 05 June (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Madhya Maharashtra, Marathwada, Telangana, North Interior Karnataka; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Vidarbha, Uttarakhand, Chhattisgarh, Konkan & Goa, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Hot and humid weather** likely to prevail over Odisha.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over South & adjoining central Bay of Bengal along & off north Andhra Pradesh coast & adjoining Westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, southwest and westcentral Arabian sea, off Yemen coast. Fishermen are advised not to venture into these areas.



**\* 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**  
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**IMPACT & ACTION SUGGESTED due to very heavy rainfall/extremely falls over Assam, Meghalaya during 01<sup>st</sup>-05<sup>th</sup> June; Arunachal Pradesh on 01<sup>st</sup> & 02<sup>nd</sup> June, 2024.**

**Impact Expected**

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mudslips/landsinks/mudsinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

**A. Action Suggested**

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

## **IMPACT & ACTION SUGGESTED due to Heat Wave Conditions:**

### **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.

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

- Drain out excess water from crop fields to avoid water stagnation in Kerala, West Bengal and North-Eastern States.
- Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimise evaporation in Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, West Rajasthan, Bihar, Jharkhand, Odisha, Madhya Pradesh, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh.
- 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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