

Sunday, December 03, 2023
Time of Issue: 2000 hours IST
(NIGHT)

All India Impact Based Weather Warning Bulletin

03 December (Day 1):

- ❖ **Heavy to very heavy rainfall** at a few places **with isolated extremely heavy rainfall** very likely over north coastal Tamil Nadu & Puducherry; **Heavy to very heavy rainfall with isolated extremely heavy rainfall** at isolated places over Rayalaseema; **Heavy to very heavy rainfall** at a few places over Coastal Andhra Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Kerala & Mahe and **with lightning** Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Rajasthan, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Dense Fog** very likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh.
- ❖ **Squally Wind speed reaching 65-75 kmph gusting to 85 kmph is prevailing and likely to increase becoming Gale Wind speed reaching 70-80 kmph gusting to 90 kmph** over Southwest & Westcentral Bay of Bengal along & off north Tamil Nadu, Puducherry, south Andhra coasts from today night. Fishermen are advised not to venture into these areas.

04 December (Day 2):

- ❖ **Heavy to very heavy rainfall** at a few places **with isolated extremely heavy rainfall** very likely over north coastal Tamil Nadu & Puducherry; **Heavy to very heavy rainfall with isolated extremely heavy rainfall** at isolated places over Rayalaseema, Coastal Andhra Pradesh; **Heavy rainfall** at isolated places over Telangana and Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over East Madhya Pradesh, Kerala & Mahe and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Vidarbha, Telangana and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Dense Fog** very likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi.
- ❖ **Gale Wind speed reaching 90-100 kmph gusting to 110 kmph** is very likely over Westcentral Bay of Bengal & along & off south Andhra Pradesh coast; **Gale Wind speed reaching 70-80 kmph gusting to 90 kmph** over Southwest Bay of Bengal along & off north Tamil Nadu, Puducherry coasts; **Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** over north Andhra Pradesh coast; **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** over along & off Odisha coast. Fishermen are advised not to venture into these areas.

05 December (Day 3):

- ❖ **Heavy to very heavy rainfall with extremely heavy rainfall** at isolated places very likely over Coastal Andhra Pradesh; **Heavy to very heavy rainfall** at isolated places over Odisha, Telangana; **Heavy rainfall** at isolated places over north coastal Tamil Nadu & Puducherry and Rayalaseema.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Vidarbha, East Madhya Pradesh and **with lightning** at isolated places over Telangana and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Gale Wind speed reaching 90-100 kmph gusting to 110 kmph** is very likely over Westcentral Bay of Bengal & along & off south Andhra Pradesh coast; **Squally weather with wind speed reaching 55-65 kmph gusting to 75 kmph** over north Andhra Pradesh coast; **Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph** over along & off Odisha coast; Fishermen are advised not to venture into these areas.

06 December (Day 4):

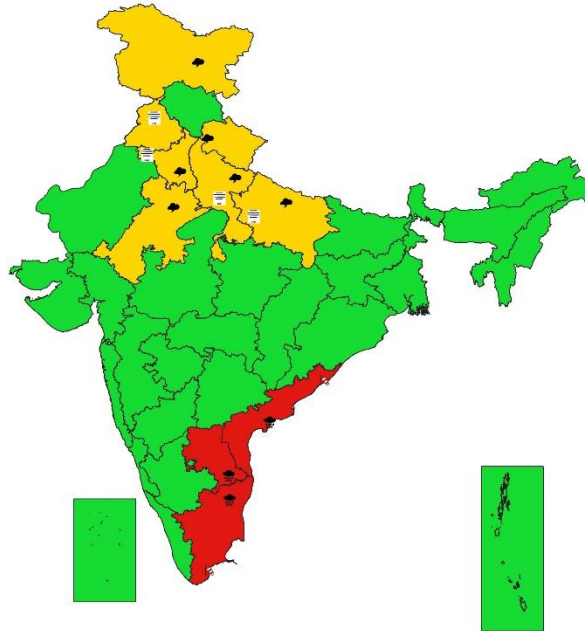
- ❖ **Heavy rainfall** likely at isolated places over north Coastal Andhra Pradesh and Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over East Madhya Pradesh and Vidarbha.









07 December (Day 5):





- ❖ **No warnings**



SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
(3-12-2023)

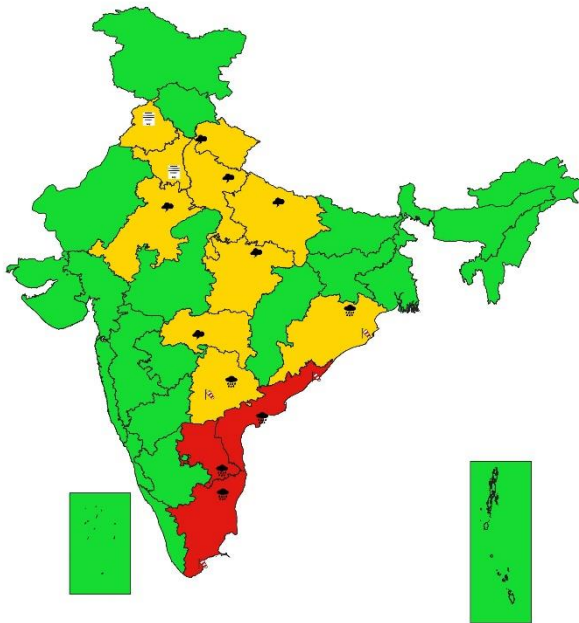




Subdivision Warning
 Heavy Rain
 Heavy Snow
 Thunderstorms & Lightning
 Hailstorm
 Dust Storm
 Strong Surface Winds
 Heat Wave
 Cold wave
 Fog

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



SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(4-12-2023)

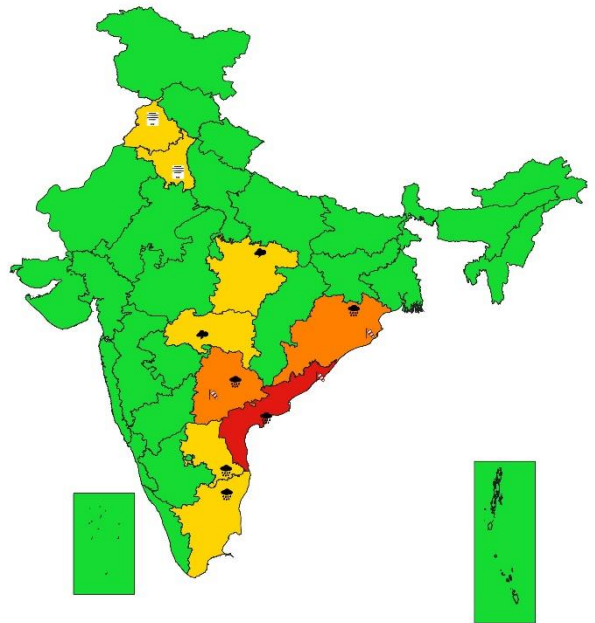









Subdivision Warning
 Heavy Rain
 Heavy Snow
 Thunderstorms & Lightning
 Hailstorm
 Dust Storm
 Strong Surface Winds
 Heat Wave
 Cold wave
 Fog





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



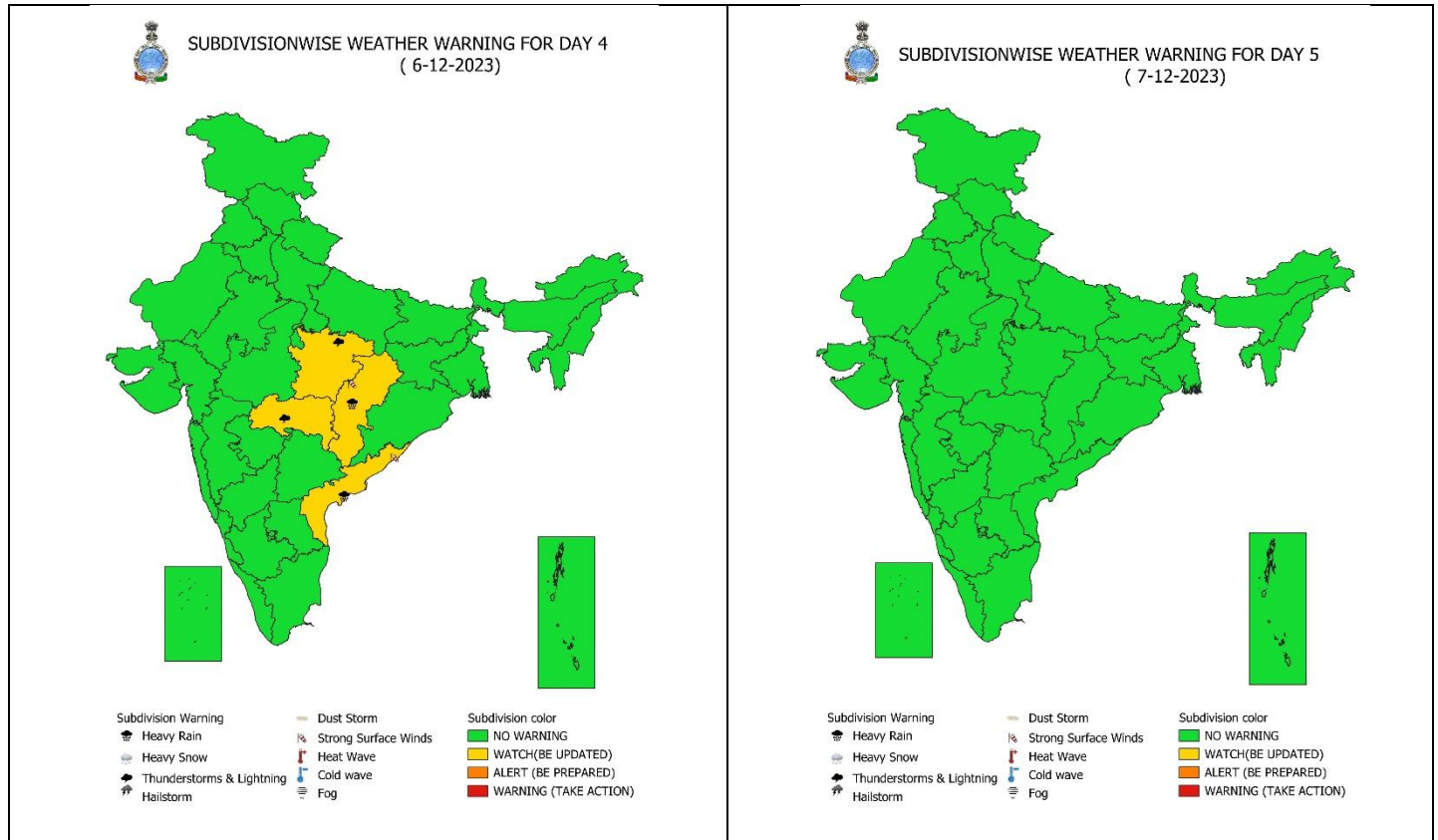
SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(5-12-2023)



Subdivision Warning
 Heavy Rain
 Heavy Snow
 Thunderstorms & Lightning
 Hailstorm
 Dust Storm
 Strong Surface Winds
 Heat Wave
 Cold wave
 Fog

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

*** Red color warning does not mean "Red Alert" Red color 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)



i) Damage Expected over coastal districts of South Andhra Pradesh (Nellore, Tirupati Prakasam, Bapatla, Guntur, Krishna and West Godavari) and adjoining coastal districts of North Tamil Nadu-Puducherry:

- Major damage to thatched houses/ huts. Roof tops may blow off. Unattached metal sheets may fly.
- Possibilities of damage to vulnerable structure.
- Breaking of tree branches, uprooting of large avenue trees. Major damage to banana and papaya trees. Large dead limbs blown from trees.
- Minor damage to power and communication lines due to breaking of branches and uprooting of trees.
- Major damage to Kutcha and minor damage to Pucca roads due to heavy rain.
- Damage to paddy crops, horticultural crops and orchards.
- Sea water inundation in low lying areas after erosion of Kutcha embankments
- Inundation of low lying areas in coastal districts due to heavy rainfall and flash flood
- Localized Flooding of roads and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic due to water logging and squally winds
- Localized Landslides/Mudslides
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

(ii) Action Suggested for coastal districts of South Andhra Pradesh and adjoining coastal districts of North Tamil Nadu-Puducherry:

- Total suspension of fishing operations.
- Surface transport and shipping operations need to be regulated
- Onshore & Off shore operation need to be regulated as per guidelines
- Coastal hutment dwellers to be in safer places.
- People in affected areas to remain indoors.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

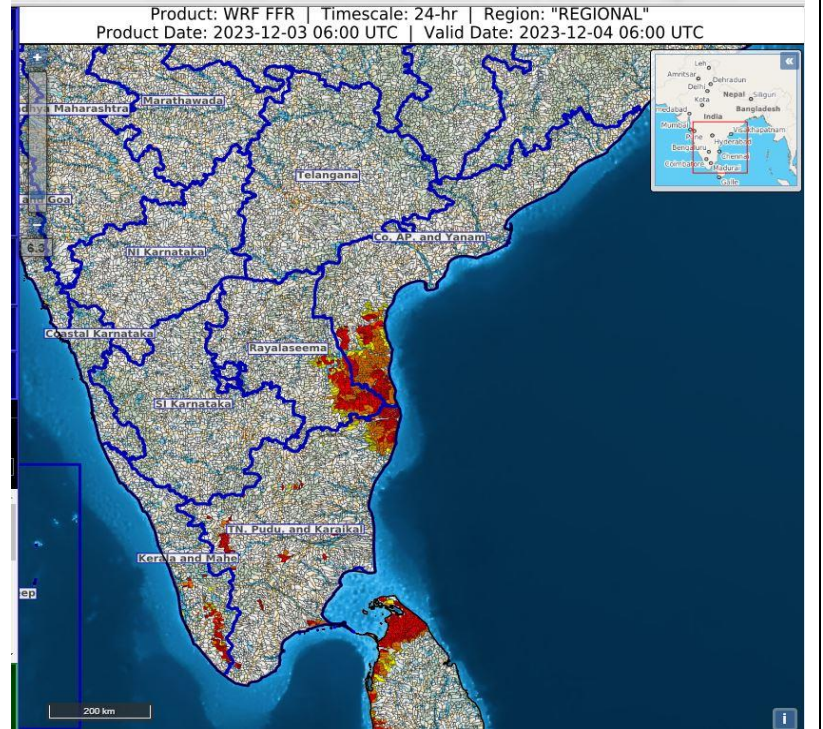
Fishermen Warning:

Fishermen are advised not to venture into:

- Southwest Bay of Bengal and along & off North Tamil Nadu-Puducherry Coasts till 5th December.
- Westcentral Bay of Bengal and along & off Andhra Pradesh Coast till 6th December.
- Along & off Odisha coast from 4th December evening till 6th December

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 04-12-2023 :

Moderate Flash flood risk likely in next 24 hours over Southern part of Coastal Andhra Pradesh & Yanam and adjoining area of South-East part of Rayalaseema and Northern part Tamil Nadu – Puducherry & Karaikal Met subdivisions.



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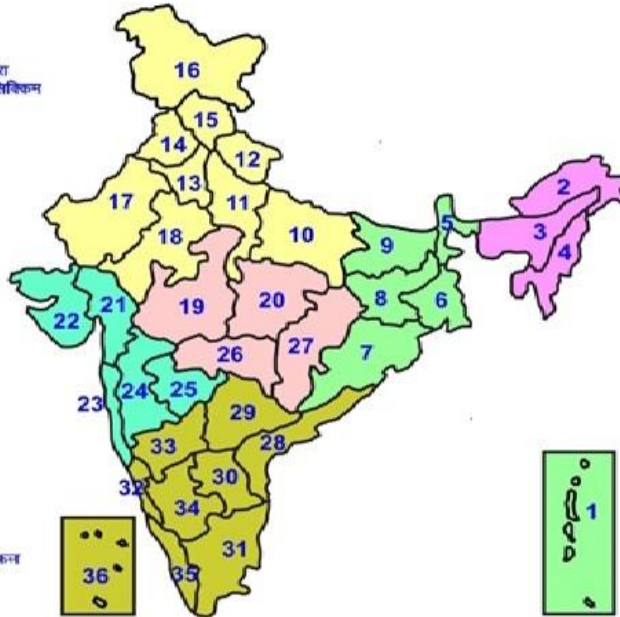
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मीज़ोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा, चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

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

	Heavy Rain		Heavy Snow		Thunderstorm		Dust Storm
	Strong Winds		Visibility		Cyclone		Squall/ Hail
	Frost		Cold Wave		Heat Wave		Sea State

LEGENDS

WARNING

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Probabilistic Forecast

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Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



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 $\geq 40^{\circ}\text{C}$ 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 $\geq 37^{\circ}\text{C}$



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 $> 6.4^{\circ}\text{C}$.



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 $\leq 15^{\circ}\text{C}$



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 $\leq -6.5^{\circ}\text{C}$



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



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.



Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



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



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



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.