



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Friday, March 28, 2025 Time of Issue: 1330 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

Strong Surface winds (20-30 kmph gusting to 40 kmph) very likely at isolated places Northwest India on 28th & 29th March.

- ❖ A trough runs from Bihar to northeast Assam across Sub-Himalayan West Bengal & Sikkim in lower tropospheric levels. Under its influence:
- ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning** likely over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim on 28th & 29th March.
- ❖ A north-south trough runs from North Interior Karnataka to south Tamil Nadu in lower tropospheric levels. Under its influence:
- ✓ **Isolated to scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-50 kmph)** likely over Madhya Maharashtra, Konkan & Goa during 29th March to 01st April; Marathawada on 01st April; Kerala & Mahe, Tamilnadu Puducherry & Karaikal, Coastal Karnataka, South Interior Karnataka during 28th, 31st March & 01st April; Coastal Andhra Pradesh & Yanam during 30th March to 01st April.

Temperature Forecast:

- Gradual fall in maximum temperatures by 3-5°C likely over Northwest India (including Delhi) during next 2 days and rise by 3-5°C gradually from 30th March onwards for subsequent 3 days.
- Rise in maximum temperatures by 2-3°C likely over East India today and no significant change thereafter during next 3 days with possibility of occurrence of heatwave conditions at isolated places over interior Odisha till 30th March.
- ❖ Gradual fall in maximum temperatures by 2-3°C likely over Central India during next 2 days and no significant change during subsequent 3 days.
- No significant change in maximum temperatures over Maharashtra during next 3 days and fall by 2-3°C during subsequent 2 days.
- Rise in maximum temperatures by 2-3°C likely over Gujarat during next 5 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over some parts of south peninsular India during next 2 days and no significant change during subsequent 3 days.

Heat wave and Hot & Humid weather warning:

- **❖** Heat wave conditions very likely in isolated pockets of interior Odisha during 28th-30th March.
- **❖** Hot & humid weather conditions very likely to prevail in isolated pockets of Tamilnadu Puducherry & Karaikal on 28th & 29th; coastal areas of Gujarat during 30th March to 01st April







Main Weather Observations:

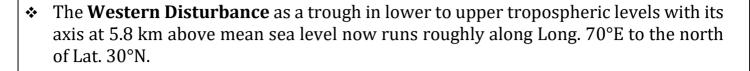
- ❖ Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and South Interior Karnataka.
- ❖ Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today): (in cm): Kerala & Mahe: Aryankavu (dist Kollam) 3, Palode Aws (dist Thiruvananthapuram) 3; Jammu & Kashmir: Kupwara Kvk Aws (dist Kupwara) 1, Banihal (dist Ramban) 1, Kupwara (dist Kupwara) 1.
- ❖ **Squally/Gusty winds** prevailed at isolated locations over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttar Pradesh, and Punjab.
- Hailstorm reported at isolated locations over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ Minimum Temperature Departures (as on 28-03-2025): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places Himachal Pradesh, Uttar Pradesh, Bihar, Assam; above normal (1.6°C to 3.0°C) at most places over Arunachal Pradesh; at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Marathwada, Madhya Maharashtra; at isolated places over Madhya Pradesh, Vidarbha, Telangana, Nagaland, Manipur, Mizoram & Tripura. These are markedly below normal (-5.1°C or less) at isolated places over West Rajasthan; below normal (-3.0°C to -1.6°C) at isolated places over Saurashtra & Kutch, Chhattisgarh, Gangetic West Bengal and near normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 12.4°C is reported at Amritsar (Punjab) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 27-03-2025): Maximum Temperatures were markedly above normal (5.1°C or more) at isolated places over Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand, Haryana-Chandigarh-Delhi; at many places over Punjab, East Uttar Pradesh; at a few places over West Uttar Pradesh, East Rajasthan, East Madhya Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Bihar, Jharkhand, West Madhya Pradesh, Gangetic West Bengal, Assam, ; above normal (1.6°C to 3.0°C) at many places over Odisha; at a few places over Coastal Andhra Pradesh & Yanam, Telangana, Lakshadweep; at isolated places over Chhattisgarh, Tamil Nadu, Puducherry & Karaikal. These were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Gujarat state; below normal (-3.0°C to -1.6°C) at a few places over Konkan & Goa, South Interior Karnataka; at isolated places over Madhya Maharashtra, Kerala & Mahe and near normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 42.0°C was reported at Ghoorpur (East Uttar Pradesh) over the country.





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Meteorological Analysis (Based on 0830 hours IST)

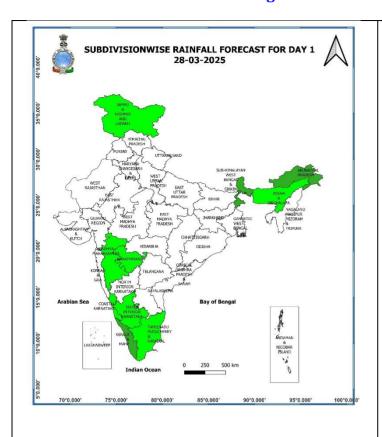


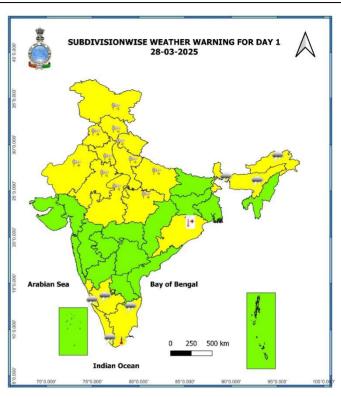
- ❖ A **trough runs** from Bihar to northeast Assam across Sub-Himalayan West Bengal & Sikkim at 0.9 km above mean sea level.
- ❖ A **trough runs** from North Interior Karnataka to south Tamil Nadu at 0.9 km above mean sea level.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood between 1.5 & 3.1 km above mean sea level has become less marked.
- ❖ The upper air **cyclonic circulation** over central Pakistan & neighbourhood extending upto 1.5 km above mean sea level has become less marked.
- ❖ The north-south **trough** from north Madhya Maharashtra to north Kerala across interior Karnataka at 0.9 km above mean sea level has become less marked.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 04th April, 2025)



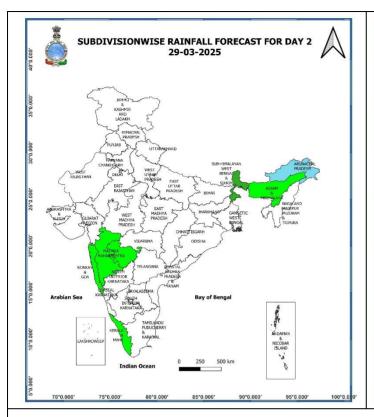


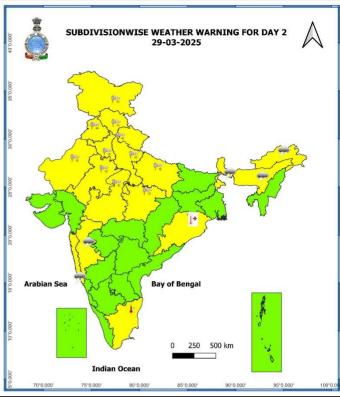
28th March (Day 1):

- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe; with lightning at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Karnataka, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal.
- **\Delta Heat wave conditions** very likely at isolated places over Interior Odisha.
- ❖ Hot and Humid Conditions very likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- ❖ Strong Surface winds (speed reaching 20 30 kmph gusting to 40 kmph) very likely at isolated places over Northwest India and adjoining Madhya Pradesh.





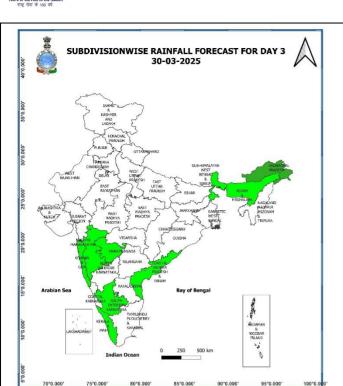


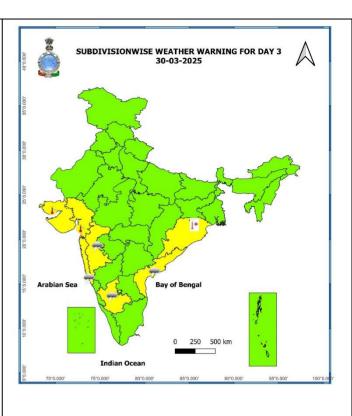


29th March (Day 2):

- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Goa, Madhya Maharashtra; with lightning at isolated places over Arunachal Pradesh, Assam & Meghalaya.
- **\Delta Heat wave conditions** likely at isolated places over interior Odisha.
- ❖ Hot and Humid Conditions likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- ❖ Strong Surface winds (speed reaching 20 30 kmph gusting to 40 kmph) very likely at isolated places over Northwest India and adjoining Madhya Pradesh.





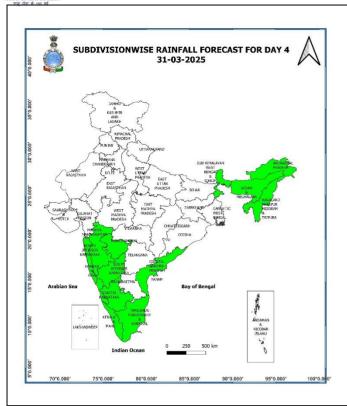


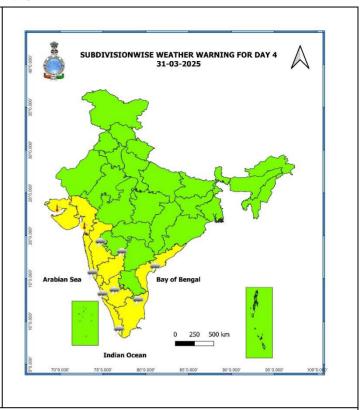
30th March (Day 3):

- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 30 40 kmph) at isolated places over Konkan & Goa, Madhya Maharashtra; with lightning at isolated places over Coastal Andhra Pradesh & Yanam, South Interior Karnataka.
- **\Delta Heat wave conditions** likely at isolated places over interior Odisha.
- **\Delta** Hot and Humid Conditions likely at isolated places over coastal areas of Gujarat state.



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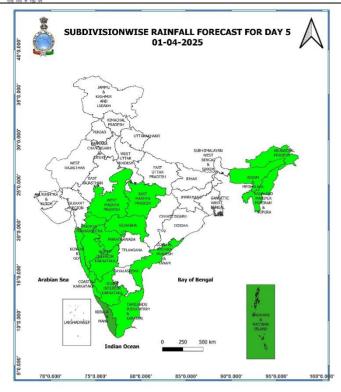


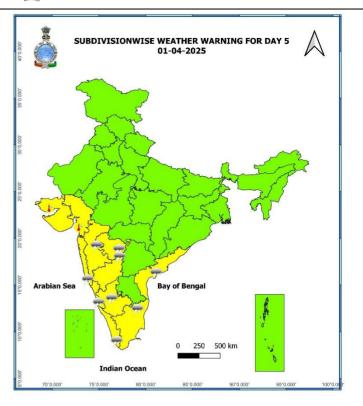
31st March (Day 4):

- ❖ Thunderstorm accompanied with gusty winds (speed reaching 40 50 kmph) & lightning very likely at isolated places over Madhya Maharashtra, North Interior Karnataka; with gusty winds (speed reaching 30 40 kmph) at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam; with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Karnataka and South Interior Karnataka.
- **\Display Hot and Humid Conditions** likely at isolated places over coastal areas of Gujarat state.



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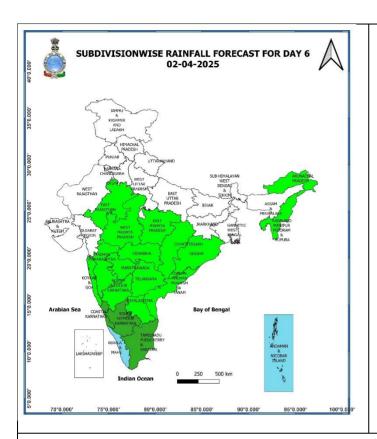


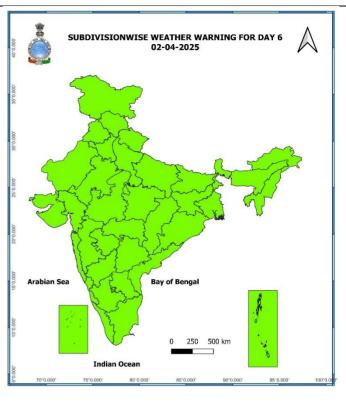
01st April (Day 5):

- ❖ Thunderstorm accompanied with gusty winds (speed reaching 40 50 kmph) & lightning very likely at isolated places over Madhya Maharashtra, Marathwada, North Interior Karnataka, South Interior Karnataka; with gusty winds (speed reaching 30 40 kmph) at isolated places over Konkan & Goa, Kerala & Mahe, Coastal Andhra Pradesh & Yanam; with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka.
- **\Delta** Hot and Humid Conditions likely at isolated places over coastal areas of Gujarat state.



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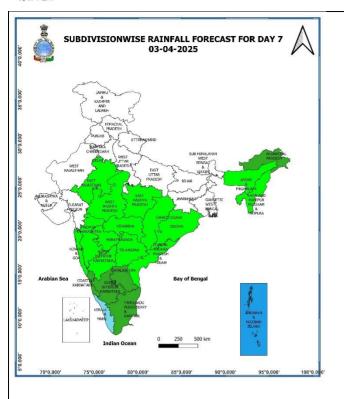


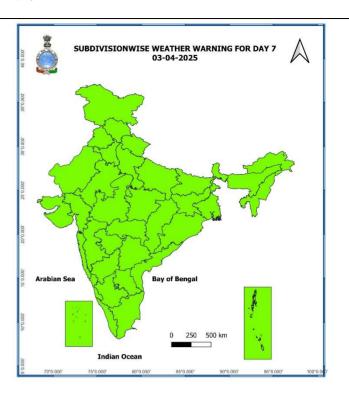
02nd April (Day 6):

* No warning.



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03rd April (Day 7):

No warning.

Weather Outlook for subsequent 3 days (During 04th April- 06th April, 2025)

❖ **Isolated to scattered rainfall** likely over central India, Arunachal Pradesh, Andaman & Nicobar Islands, Odisha and south peninsular India.

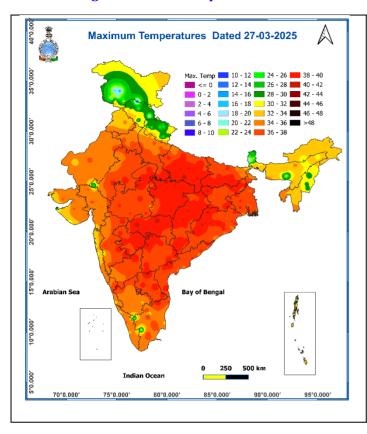
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures



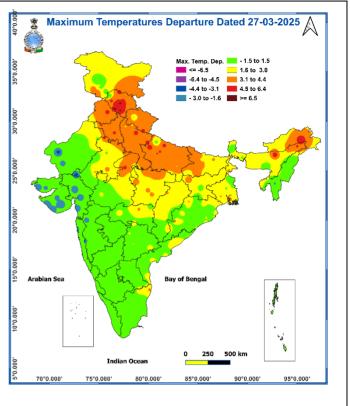


Fig. 3: Minimum Temperatures

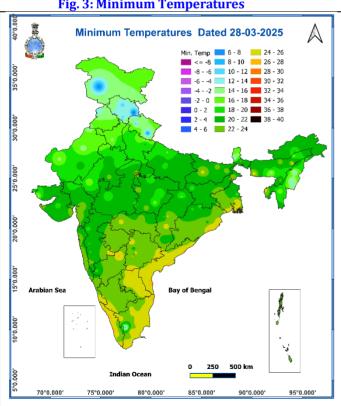


Fig. 4: Departure of Minimum Temperatures

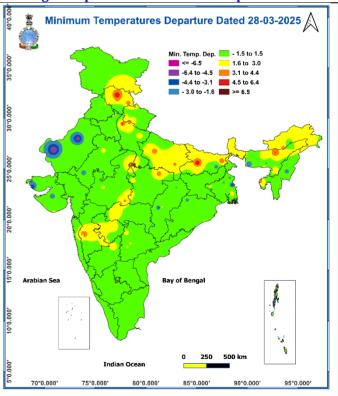
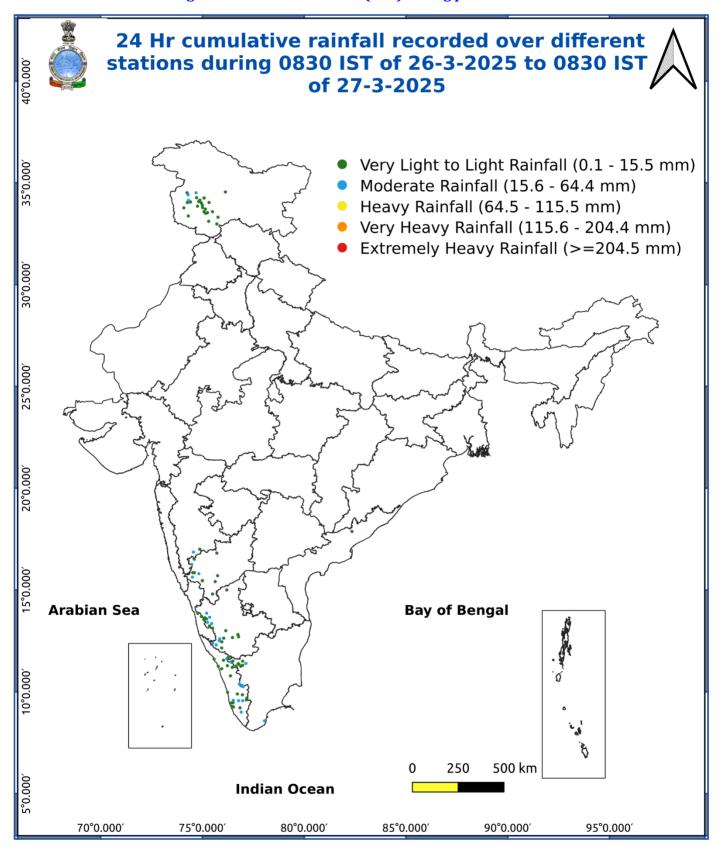






Fig. 5: Accumulated Rainfall (mm) during past 24 hours



30. रायलसीमा

32. तटीय कर्नाटक

35. केरल और माहे

S Dust Raising Winds

36. लक्षद्वीप

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

31. तमिलनाडु, पुडुचेरी और कराईकल

राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



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LEGENDS



- 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. Rihar
- 10. East Uttar Pradesh
- 11. West Uttar Pradesh
- 12. Uttarakhand
- 13. Haryana, Chandigarh & Delhi
- 14. Puniab
- 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. Marathwada
- 26. Vidarbha
- 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

Most Likely

> 75

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)



Strong Surface Winds





	Heavy: 64.5 to 115.5 mm/cm *
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm*
	Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° 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 ≥6.5° C
Heat Wave	(b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
Warm Night	Warm Night: When minimum temperature 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C
Cold Wave	(b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave: When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	(c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Fog	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
10 (80%)	very bense rog. when the visibility - 50 metes
hunderstorm	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.
	Ice deposits on ground
Frost	Air temperature ≤4°C (over Plains)
	A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph
Squall	Severe: Wind speed 62-87 kmph
74	Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area
Sea State	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)
Cyclone	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 Strom: Wind speed >220 kmph (>119 knots)

Hot and Humid: When maximum temperatures remains 3°C above normal along with the above normal relative humidity.