



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Monday, March 24, 2025 Time of Issue: 0800 hours IST (MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and Warnings:

- A **cyclonic circulation** lies over northeast Assam & neighbourhood in lower tropospheric levels. A north-south trough runs from west Vidarbha to north Kerala in lower tropospheric levels. There is wind confluence over east & adjoining east peninsular India in association with the anticyclonic circulation over Bay of Bengal at lower tropospheric levels. Under the influence of these systems:
- ✓ **Heavy rainfall** likely at isolated places over Arunachal Pradesh on 28th & 29th March.
- ✓ **Scattered to Fairly widespread** light/moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds (speed 30-40 kmph)** likely over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema on 24th March and over South Interior Karnataka during 24rd-26th March.
- **♦** A fresh Western Disturbance is likely to affect Western Himalayan Region from night of 24th March. Under its influence:
 - ✓ **Isolated to Fairly widespread** light/moderate rainfall accompanied with **thunderstorm**, **lightning** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 24th-28th; Himachal Pradesh during 24th-27th and over Uttarakhand on 26th & 27th March.
 - ✓ **Heavy rainfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 26th March.

Temperature Forecast:

Forecast of temperature:

Maximum temperature:

- ❖ Gradual rise in maximum temperatures by 3-5°C likely over many places over Northwest India during next 4 days and no significant change thereafter.
- ❖ Gradual rise in maximum temperatures by 2-4°C likely over Central India and Interior Maharashtra during next 4-5 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Gujarat during next 3 days and then fall by about 2-3°C thereafter.

Heat wave and Hot & Humid weather warning:

♦ Hot & humid weather conditions very likely to prevail in isolated pockets over coastal areas of Gujarat State on 24th & 25th March.





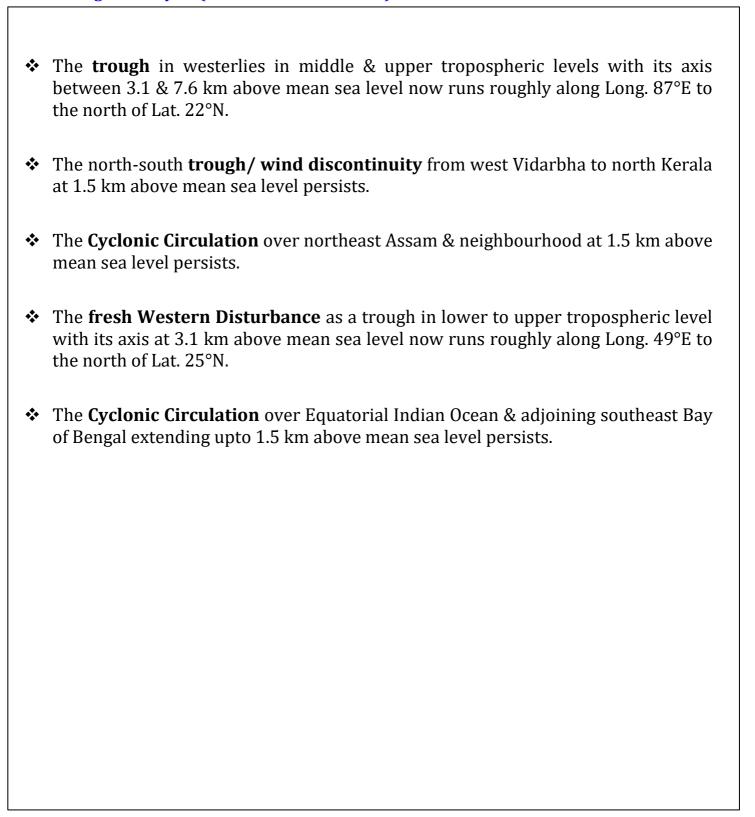
Main Weather Observations:

- ❖ Rainfall distribution (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Chhattisgarh, Jharkhand, Odisha, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Telangana, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal.
- ❖ Significant amount of rainfall (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): Meghalaya: Barapani 2; Kerala: Thrissur 2; Tamil Nadu: Thanjavur 3.
- ❖ Minimum Temperature Departures (as on 23-03-2025): Minimum temperatures were above normal (1.6°C to 3.0°C) at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. These were markedly below normal (-5.1°C or less)) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Bihar, East Uttar Pradesh and East Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at a few places over Gangetic West Bengal; isolated places over Odisha, West Rajasthan, Haryana-Chandigarh-Delhi and Madhya Pradesh; below normal (-3.0°C to -1.6°C) at most places over Sub-Himalayan West Bengal & Sikkim; at many places over West Uttar Pradesh, and Andaman & Nicobar Islands; at isolated places over Uttarakhand and Assam & Meghalaya and near normal over rest parts of the country (Fig. 4). Yesterday, the lowest minimum temperature of 12.1°C was reported at Hissar (Haryana) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 23-03-2025): Maximum Temperatures were markedly above normal (5.1°C or more) at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; appreciably above normal (3.1°C to 5.0°C)) at many places over West Rajasthan; at a few places over Himachal Pradesh, Punjab; at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at a few places over Haryana-Chandigarh-Delhi, Konkan & Goa, Coastal Karnataka; at isolated places over East Rajasthan, West Uttar Pradesh, Uttarakhand, Assam. These were markedly below normal (-5.1°C or less) at a few places over Jharkhand; at isolated places over Odisha, Gangetic West Bengal; appreciably below normal (-3.1°C to -5.0°C) at many places over Rayalaseema; at a few places over South Interior Karnataka; at isolated places over Bihar, Telangana; below normal (-3.0°C to -1.6°C) at a few places over East Uttar Pradesh; at isolated places over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Tripura, Meghalaya, Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 41.0°C was reported at Surendranagar (Saurashtra & Kutch) over the country.



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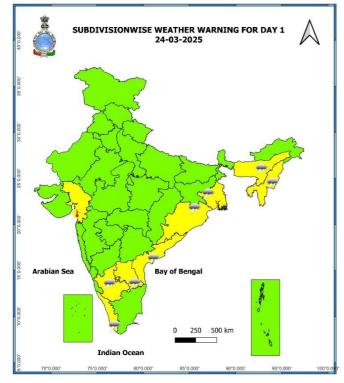
Meteorological Analysis (Based on 0530 hours IST)

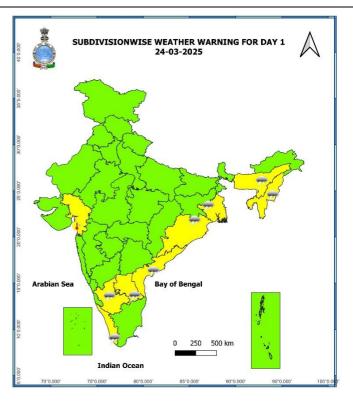


Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 31st March, 2025)







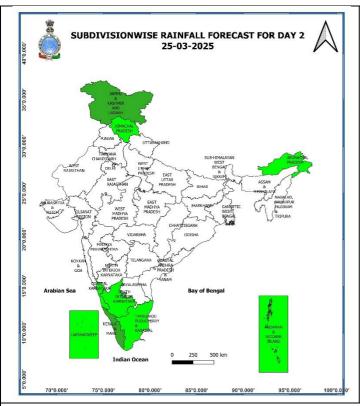


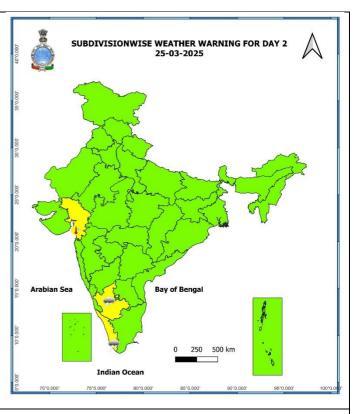
24th March (Day 1):

- Thunderstorm accompanied with gusty winds (speed reaching 30 40 kmph) & lightning very likely at isolated places over Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka; with lightning likely at isolated places over Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- **❖ Hot and Humid Conditions** likely at isolated places over Gujarat state.







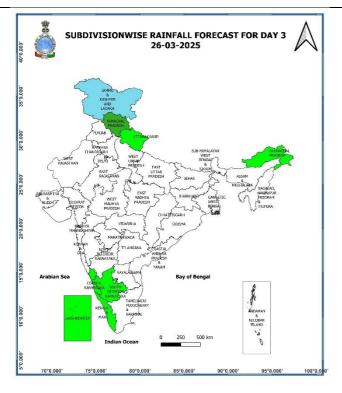


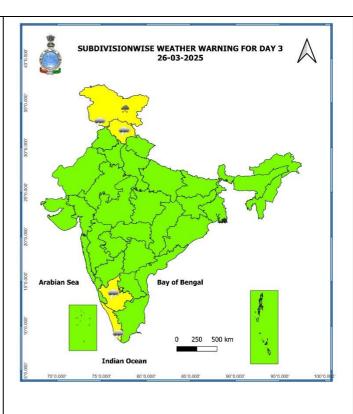
25th March (Day 2):

- Thunderstorm accompanied with gusty winds (speed reaching 30 40 kmph)
 & lightning very likely at isolated places over South Interior Karnataka; with lightning likely at isolated places over Kerala & Mahe.
- ❖ **Hot and Humid Conditions** likely at isolated places over Gujarat state.







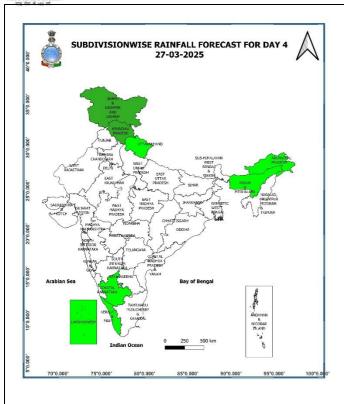


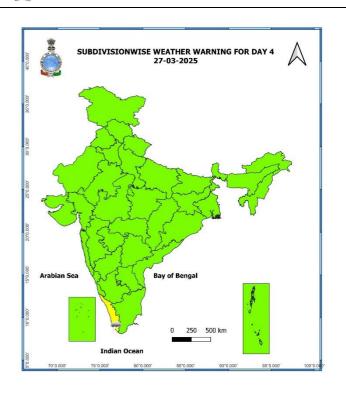
26th March (Day 3):

- ❖ Heavy rainfall very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- Thunderstorm accompanied with gusty winds (speed reaching 30 40 kmph) & lightning very likely at isolated places over South Interior Karnataka; with lightning likely at isolated places over Kerala & Mahe, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.



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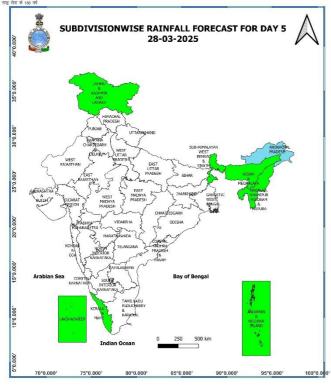
27th March (Day 4):

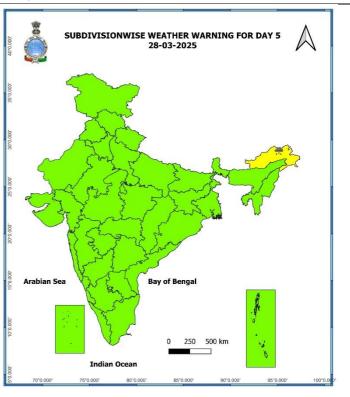
❖ Thunderstorm accompanied with lightning likely at isolated places over Kerala & Mahe.





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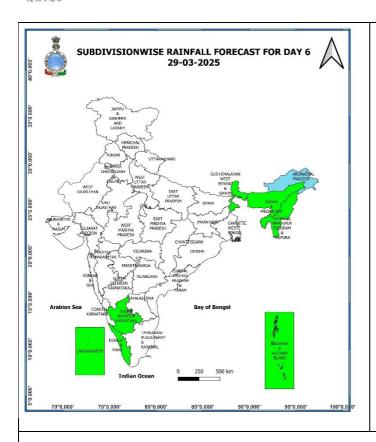


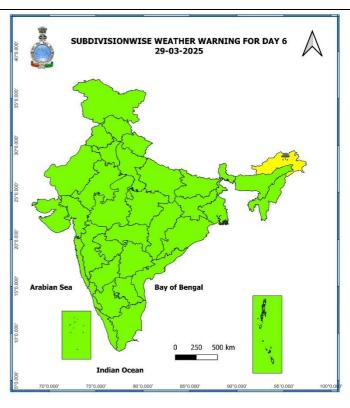
28th March (Day 5):

*** Heavy rainfall** likely at isolated places over Arunachal Pradesh.



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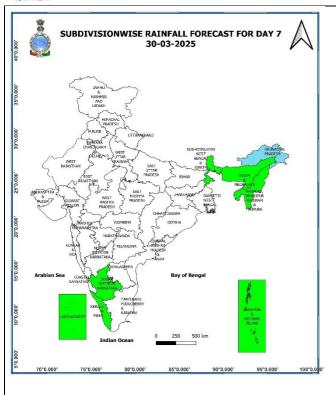


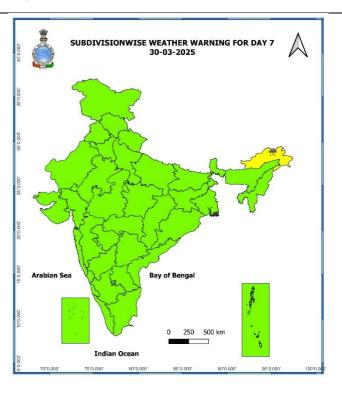
29th March (Day 6):

*** Heavy rainfall** very likely at isolated places over Arunachal Pradesh.



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30th March (Day 7):

Heavy rainfall very likely at isolated places over Arunachal Pradesh.

Weather Outlook for subsequent 3 days (During 31st March-02nd April, 2025)

❖ Isolated to scattered rainfall likely over central India, Arunachal Pradesh, Andaman & Nicobar Islands, Maharashtra, Gujarat state, Odisha, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Karnataka and South Interior Karnataka.

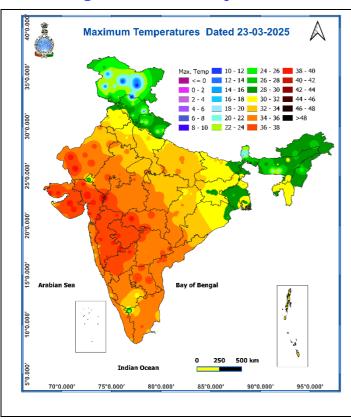
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

- 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



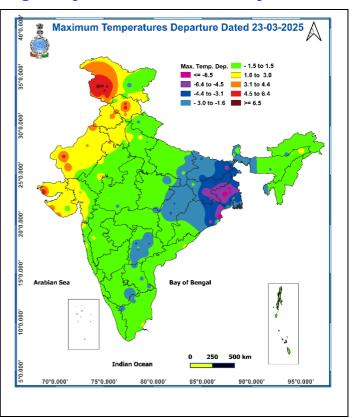
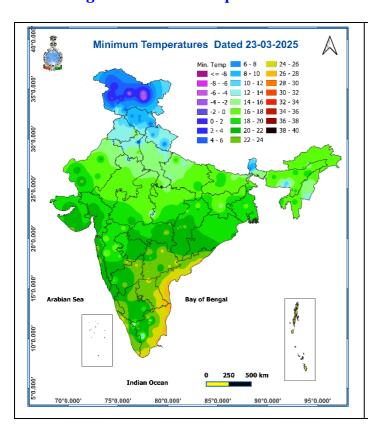


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures



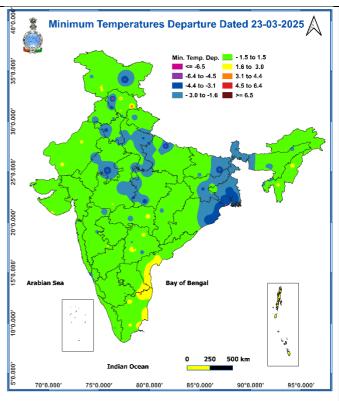
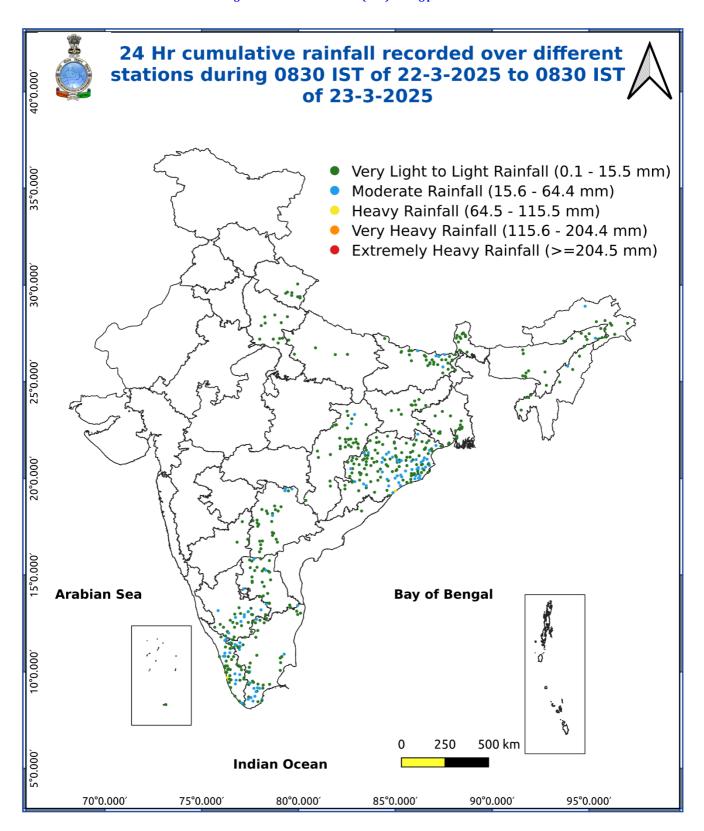






Fig. 5: Accumulated Rainfall (mm) during past 24 hours



33. आतंरिक उत्तरी कर्नाटक

S Dust Raising Winds

35. केरल और माहे

36. लक्षद्वीप

34. आतंरिक दक्षिणी कर्नाटक



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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. Bihar
- 10. East Uttar Pradesh
- 11. West Uttar Pradesh
- 12. Uttarakhand
- 13. Haryana, Chandigarh & 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. 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
- 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

Alert (Be Prepared To Take Action)

Probabilistic Forecast

	Terms	Probability of Occurrence (%)
	Unlikely	< 25
1	Likely	25 - 50
1	Very Likely	50 - 75
Ī	Most Likely	> 75





	(DEFINITION/CRITERIA)
	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 departure 4.5 °C to 6.4 °C. Severe Warm Night: When minimum temperature departure >6.4 °C.
	Cotto Hamiltonian American Composition Com
	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.
Cald Wave	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 departure is 5-4.5 C & actual Minimum Temperature is 5 15 C
O-14 D-v	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
Fog	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres
-66	very belief tog. When the visionity 100 meters
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.
F	Ice deposits on ground
Frost	Air temperature ≤4°C (over Plains)
	A stress with data to be a suit dental to be a few of the state of the
	A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph
Squall	Severe: Wind speed 62-87 kmph
	Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area
	Pough to year rough: Wind speed 41.62 kmph (22.33 knots) 9 Ways height 2.5.6 metro
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
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
Sea State	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
Sea State	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)
	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)
Sea State Cyclone	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)
	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)