

National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Thursday, February 6, 2025 Time of Issue: 1315 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and warning:

- ❖ A **Western Disturbance** seen as a cyclonic circulation over north Pakistan and adjoining Jammu region with a trough aloft in middle tropospheric levels runs roughly along Long. 72°E to the north of Lat. 30°N.
- ❖ A **cyclonic circulation** lies over central Assam & neighbourhood in lower tropospheric levels. Under its influence,
 - ✓ Isolated to scattered light to moderate rainfall accompanied with thunderstorm & lightning likely over Arunachal Pradesh and northeast Assam on 06th & 07th February.
- ❖ Another **fresh Western Disturbance** is likely to affect Western Himalayan Region from 08th February, 2025. Under its influence,
 - ✓ Isolated to scattered light rainfall/snowfall activity likely over Western Himalayan Region during 08th-12th February, 2025.

Forecast of temperature:

- ❖ No significant change in minimum temperatures likely over Northwest India during next 24 hours and gradual rise by 2-3°C during subsequent 4 days.
- ❖ Gradual fall in minimum temperatures by 2-3°C likely over Central India during next 3 days and no significant change during subsequent 2 days.
- ❖ Gradual fall in minimum temperatures by 3-5°C likely over East India during next 2 days, then no significant change during subsequent 3 days.
- No significant change in minimum temperatures likely over Maharashtra during next 24 hours and gradual rise by 2-3°C during subsequent 4 days.
- ❖ Gradual rise in minimum temperatures by 2-3°C likely over Gujarat state during next 2-3 days and no significant change thereafter
- ❖ Maximum temperatures are likely to be above normal by 3-5°C over north Peninsular & East India during next 4-5 days.

Dense Fog Warnings:

❖ **Dense fog conditions** very likely to continue to prevail during early morning hours in isolated pockets of Himachal Pradesh and Odisha till 08th February.

Cold Wave Warnings:

❖ Cold Wave conditions very likely in isolated pockets of Himachal Pradesh and Rajasthan on 06th February.







Main Weather Observations:

- * Rainfall/Snowfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh.
- ❖ **Significant amount of rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): **Jammu-Kashmir:** Kishtwar (dist Kistwar) 2; **Himachal Pradesh**: Manali 2.
- Fog reported (at 0830 hours IST of today): Dense to very dense fog conditions (visibility < 50 m) reported in isolated pockets of Meghalaya and dense fog (visibility 50-199 m) reported in isolated pockets of coastal Odisha.</p>
- ❖ Visibility reported (at 0830 hours IST of today) (≤200 m): Meghalaya: Barapani 30; Odisha: Bhubaneswar 100.
- Cold Day conditions prevailed in isolated pockets of Himachal Pradesh and West Madhya Pradesh.
- **Ground Frost conditions** reported in isolated pockets of Uttarakhand.
- Minimum Temperature Departures (as on 06-02-2025): Minimum temperatures are markedly above normal (5.1°C or above) at a few places over Odisha; at isolated places over Bihar, Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at a few places over Vidarbha, Chhattisgarh; at isolated places over Madhya Maharashtra, East Madhya Pradesh, Jharkhand; above normal (1.6°C to 3.0°C) at a few places over Marathwada; at isolated places over Telangana, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura. These are below normal (-1.6°C to -3.0°C) at isolated places over Rajasthan, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, Saurashtra & Kutch, East Uttar Pradesh and near normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 3.5°C was reported at Sikar (East Rajasthan) over the plains of the country.
- ★ Maximum Temperature Departures (as on 05-02-2025): Maximum temperatures were markedly above normal (5.1°C or above) at a few places over Chhattisgarh; at isolated places over Odisha, Jharkhand; appreciably above normal (3.1°C to 5.0°C) at isolated places over East Uttar Pradesh, Bihar, Gangetic West Bengal, East Madhya Pradesh, Vidarbha, Telangana, Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at a few places over Marathwada, Rayalaseema; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Uttar Pradesh, West Madhya Pradesh, Madhya Maharashtra, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal. These were below normal (-1.6°C to -3.0°C) at isolated places over Himachal Pradesh, East Rajasthan, Gujarat state and near normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 38.4°C was reported at Nandigama (Coastal Andhra Pradesh) over the plains of the country.





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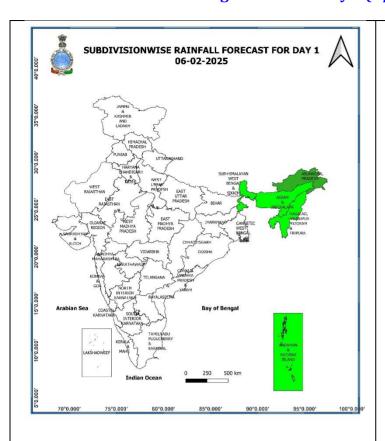
Meteorological Analysis (Based on 0830 hours IST)

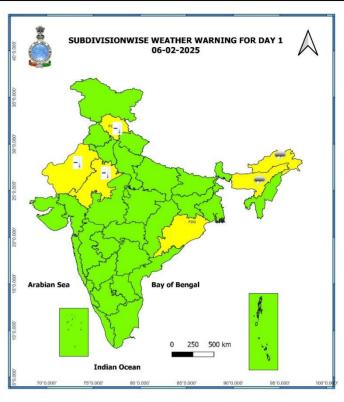
- ❖ The **Western Disturbance** now seen as a cyclonic circulation over north Pakistan and adjoining Jammu region at 3.1 km above mean sea level with a trough aloft in middle tropospheric level with its axis at 5.8 km above mean sea level roughly along Long. 72°E to the north of Lat. 30°N.
- ❖ The **cyclonic circulation** over north Bangladesh & neighbourhood now lies over central Assam & neighborhood and extends upto 1.5 km above mean sea level.
- Subtropical **westerly Jet Stream** with core winds of the order upto 125 knots at 12.6 km above mean sea level is prevailing over Northwest India.
- ❖ A fresh Western Disturbance is likely to affect western Himalayan region from 08th February, 2025.
- ❖ The **cyclonic circulation** over northeast Assam & neighbourhood at 3.1 km above mean sea level has become less marked.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 13th February, 2025)



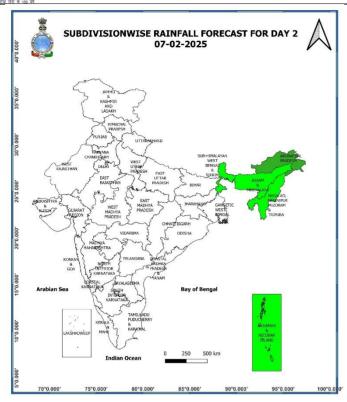


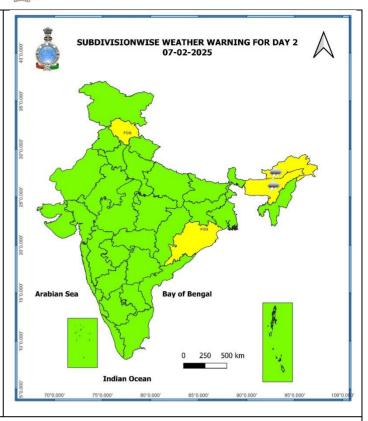
06th February (Day 1):

- **Dense fog conditions** very likely in isolated pockets of Himachal Pradesh and Odisha.
- **Cold Wave conditions** very likely in isolated pockets of Himachal Pradesh and Rajasthan.
- ❖ Thunderstorm accompanied with lightning very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.



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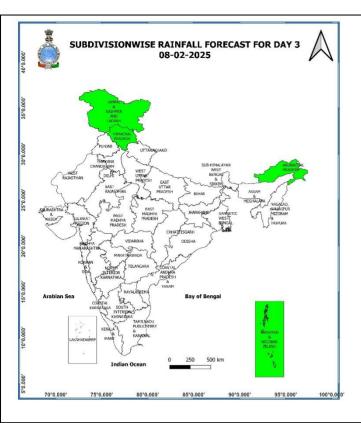


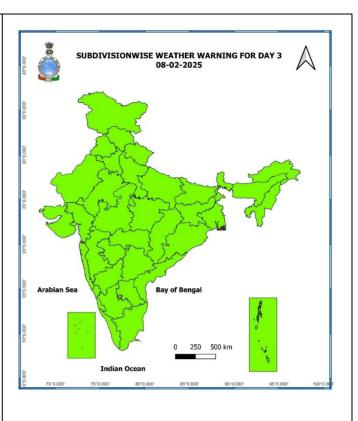
07th February (Day 2):

- **❖ Thunderstorm accompanied with lightning** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- **Dense fog conditions** very likely in isolated pockets of Himachal Pradesh and Odisha.



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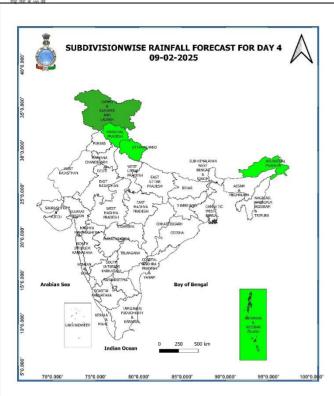


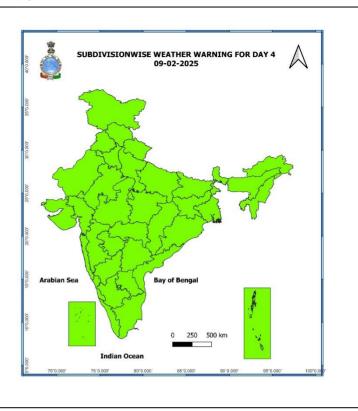
08th February (Day 3):

❖ No Weather Warning.



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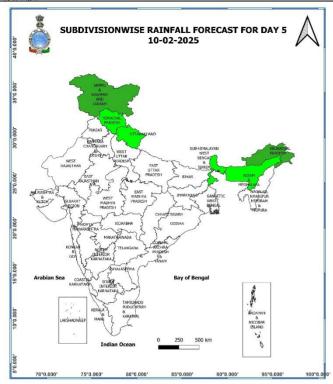
09th February (Day 4):

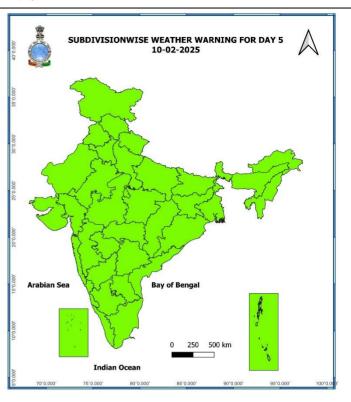
❖ No Weather Warning.





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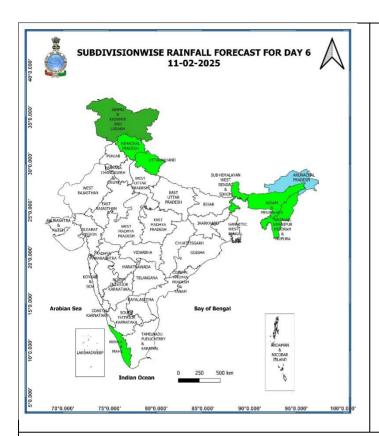


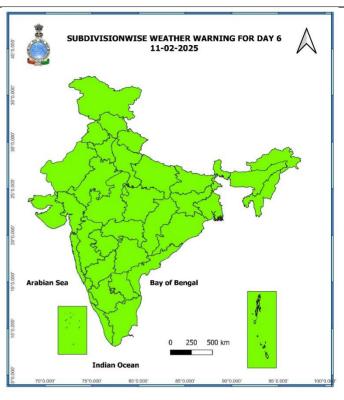
10th February (Day 5):

* No Weather Warning.



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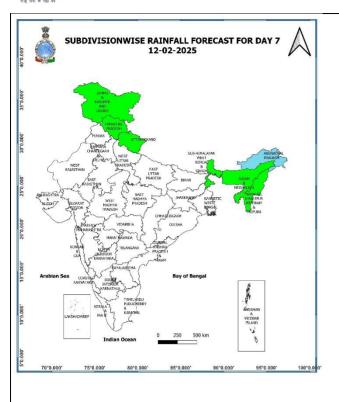


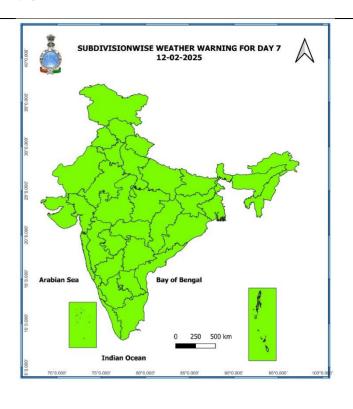
11th February (Day 6):

❖ No Weather Warning.



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12th February (Day 7):

❖ No Weather Warning.

Weather Outlook for subsequent 3 days (During 13th February- 15th February, 2025)

- ❖ Scattered to fairly widespread rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- ❖ Isolated to scattered rainfall likely over Uttarakhand, Arunachal Pradesh and Nicobar Islands.

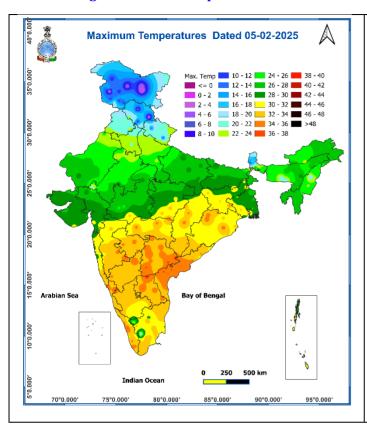
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

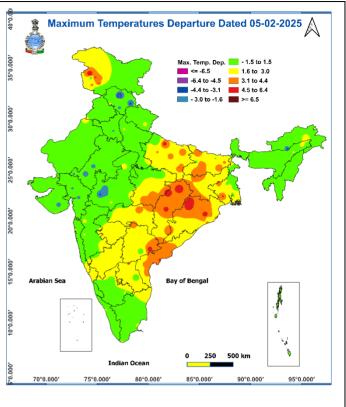
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures





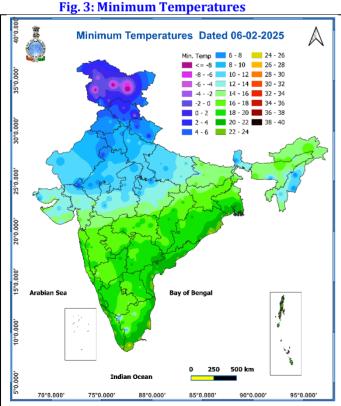
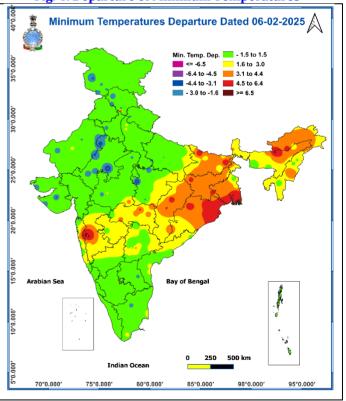


Fig. 4: Departure of Minimum Temperatures







Impact expected due to dense fog in the night /morning hours over Northwest, East and Northeast India:

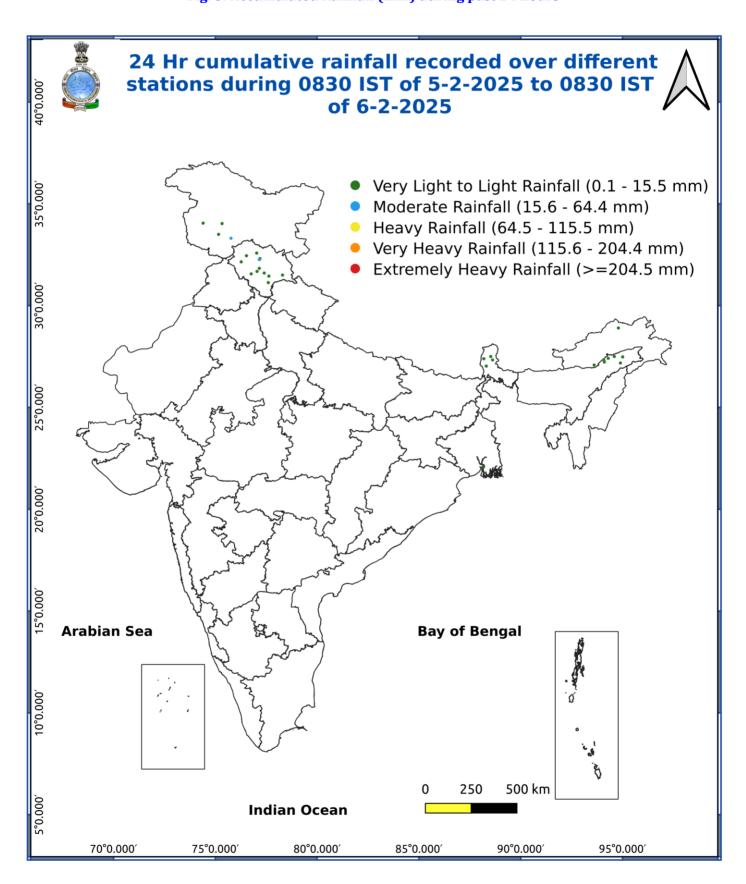
- ❖ Transport and Aviation:
- May affect some airports, highways and railway routes in the areas of met-sub-division.
 - Difficult driving conditions with slower journey times.
- Unless taken precautionary measures, it may lead to some road traffic collisions.
- ❖ Power Sector:
- Chances of Tripping of Power lines in the very dense fog routes.
 - ❖ Human Health:
 - Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
 - Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
 - Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

- Transport and Aviation:
- Be careful while driving or outing through any transport.
- Use fog lights during driving.
- Be in touch with airlines, railways and state transport for schedule of your journey.
- ❖ Power Sector:
- To keep ready Maintenance Team.
- Human Health: To avoid outing until unless emergency and to cover the face.



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







LEGENDS

16

15

13

- 1. अंडमान और निकोबार द्वीपसमूह 2. अरुणाच्_ल प्रदेश
- 3. असम और मेघालय 4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल



- 8. झारखंड
- 9. बिहार
- 10. पूर्वी उत्तर प्रदेश
- 11. पश्चिम उत्तर प्रदेश
- 12. उत्तराखंड
- 13. हरियाणा, चंडीगढ़ और दिल्ली
- 14. पंजाब
- 15. हिमाचल प्रदेश
- 16. जम्मू और कश्मीर और लद्दाख
- 17. पश्चिम राजस्थान
- 18. पूर्वी राजस्थान
- 19. पश्चिम मध्य प्रदेश
- 20. पूर्वी मध्य प्रदेश
- 21. गुजरात
- 22. सौराष्ट्र
- 23. कोंकण और गोवा
- 24. मध्य महाराष्ट
- 25. मराठवाड़ा
- 26. विदर्भ
- 27. छत्तीसगढ़
- 28. तटीय आंध्र प्रदेश और यनम
- 29. तेलंगाना
- 30. रायलसीमा
- 31. तमिलनाडु, पुडुचेरी और कराईकल
- 32. तटीय कर्नाटक
- 33. आतंरिक उत्तरी कर्नाटक
- 34. आतंरिक दक्षिणी कर्नाटक

Thunder & Lightning

Sust Raising Winds

Hailstorm

- 35. केरल और 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, 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

1

- 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)



Probabilistic Forecast

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

Hot & Humid

Strong Surface Winds





	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.
Heat Wave	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
	(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
Warm Night	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 °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.
Cold 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 of a station ≤10°C for plains and ≤0°C for hilly regions
Cold Day	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 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
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.
Squall	Moderate: Wind speed 52-61 kmph
Oquali	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
Sea State	High to very high: Wind speed 41-62 kmph (22-33 knots) & Wave height 6-14 metre
	Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
	Cualania Starra: Wind annual C2 97 Ironh /24 47 Ironh
	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)
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)