



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Tuesday, February 11, 2025 Time of Issue: 1330 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

. Weather Systems, Forecast and warning:

- ❖ A **Western Disturbance** is seen as a cyclonic circulation over north Pakistan & neighbourhood in lower tropospheric levels. Subtropical westerly Jet Stream with core winds of the order of 125 knots at 12.6 km above mean sea level is prevailing over the plains of northwest & northeast India. A **cyclonic circulation** lies over northeast Assam & neighbourhood in lower tropospheric levels. Under their influence,
 - ✓ Fairly widespread to widespread light rainfall/snowfall accompanied with thunderstorm & lightning activity likely over Arunachal Pradesh and isolated over Assam & Meghalaya on 11th & 12th February with isolated **heavy rainfall** on Arunachal Pradesh on on 11th & 12th February.
 - ✓ Isolated light rainfall activity likely over Nagaland, Manipur, Mizoram & Tripura & Sub-Himalayan West Bengal & Sikkim on 11th & 12th February.
 - ✓ Isolated to scattered light rainfall/snowfall activity likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 11th & 12th; Himachal Pradesh & Uttarakhand on 11th February, 2025.

Temperature, Cold wave and Fog Forecast:

(Temperature Conditions during past 24 hours till 0830 hours IST of today is provided in)

Forecast of temperature:

- ❖ Gradual fall in minimum temperatures by about 2°C likely over Northwest India during next 3 days and no significant change thereafter.
- ❖ No significant change in minimum temperature likely over Central India during next 24 hours and gradual fall by 2-4°C thereafter.
- No significant change in minimum temperature likely over East India during next 48 hours and gradual fall by 2-3°C thereafter.
- ❖ Gradual fall in minimum temperatures by 2-3°C likely over Maharashtra region during next 3 days and no significant change thereafter.
- ❖ No significant change in minimum temperature over remaining parts of the country during next 5 days.
- ❖ Gradual fall in maximum temperature by about 2°C likely over Northwest India during next 3 days and and no significant change thereafter.
- ❖ No significant change in maximum temperature likely over Central India during next 24 hours and gradual fall by 2-3°C during subsequent 3 days.

Cold Wave Warnings:

* Cold Wave conditions very likely in isolated pockets of Himachal Pradesh on 11th & 12th February.

Dense Fog Warnings:

Dense fog conditions very likely to continue to prevail during early morning hours in isolated pockets of Bihar till 12th and Gangetic West Bengal till 13th February.





Main Weather Observations:

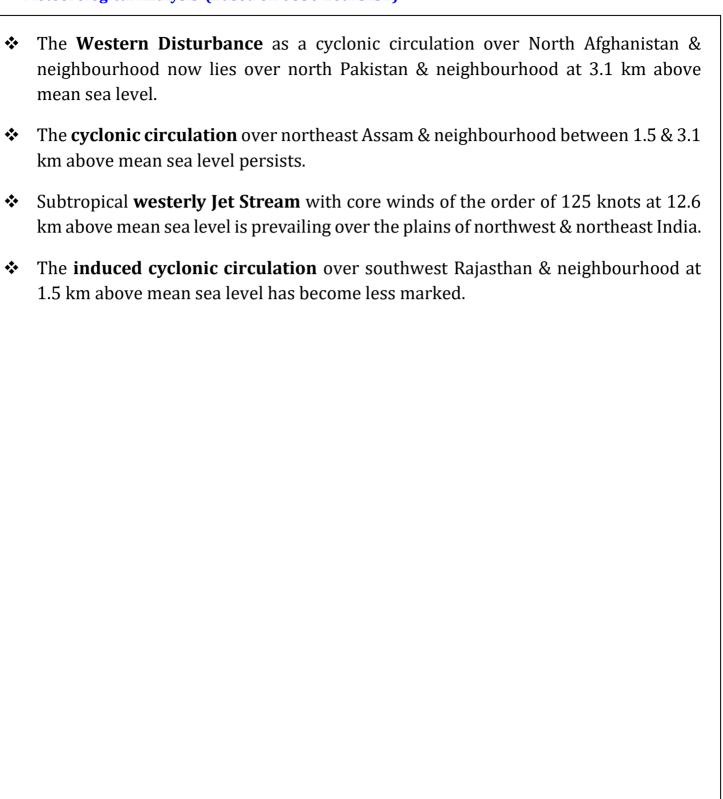
- ❖ Rainfall/Snowfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Arunachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Himachal Pradesh.
- ❖ Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today): (in cm): Arunachal Pradesh: Itanagar -5; Assam & Meghalaya: Jorhat -2; North Lakhimpur & Dibrugarh -1 each.
- ❖ Fog reported (at 0830 hours IST of today): Dense to very dense fog conditions reported in isolated pockets of Saurashtra & Kutch and Sub-Himalayan West Bengal & Sikkim and Shallow fog conditions reported in isolated pockets of Punjab, Odisha, Gangetic West Bengal, West Uttar Pradesh, West Rajasthan and Bihar.
- ❖ Visibility reported (at 0830 hours IST of today) (≤ 500 m): Sub-Himalayan West Bengal & Sikkim: Darjeeling -00; Jalpaiguri, Harsimar-IAF and Cooch Behar -500 each; Saurashtra & Kutch: Jamnagar-00; Bihar -Patna & Forbesganj -500 each; Punjab: Bathinda IAF -500; West Uttar Pradesh: Aligarh and Sarsawa -500 each; West Rajasthan: Suratgarh IAF -500; Gangetic West Bengal: Kakinada -500; Odisha: Chandbali -500.
- ❖ Minimum Temperature Departures (as on 11-02-2025): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Assam & Meghalaya, Gangetic West Bengal, Madhya Maharashtra and Vidarbha; above normal (1.6°C to 3.0°C) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh, Chhattisgarh, Konkan & Goa and Marathwada; at a few places over West Rajasthan, Odisha, West Madhya Pradesh, Telangana; at isolated places over Punjab, East Rajasthan, Uttar Pradesh, Arunachal Pradesh, Bihar, Saurashtra & Kutch and North Interior Karnataka. These are below normal (-1.6°C to -3.0°C) at isolated places over Rayalaseema and near normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 6.6°C is reported at Adampur (Punjab) over the plains of the country.
- * Maximum Temperature Departures (as on 10-02-2025): Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Himachal Pradesh, Punjab, West Rajasthan, West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh; appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand, Haryana-Chandigarh-Delhi, East Rajasthan and Jharkhand; at a few places over East Uttar Pradesh and West Madhya Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha, Vidarbha and Gujarat Region; above normal (1.6°C to 3.0°C) at most places over Marathwada and Konkan & Goa; at many places over Bihar, Saurashtra & Kutch and Madhya Maharashtra; at a few places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana and Coastal Karnataka; at isolated places over North Interior Karnataka, Kerala & Mahe and near normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 37.6°C was reported at Kannur Airport (Kerala) over the plains of the country.





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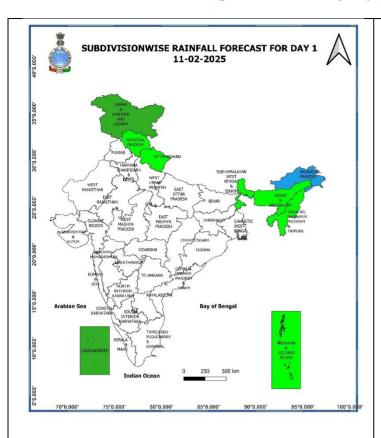
Meteorological Analysis (Based on 0830 hours IST)

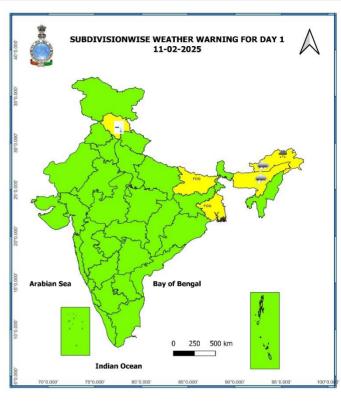






Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 18th February, 2025)



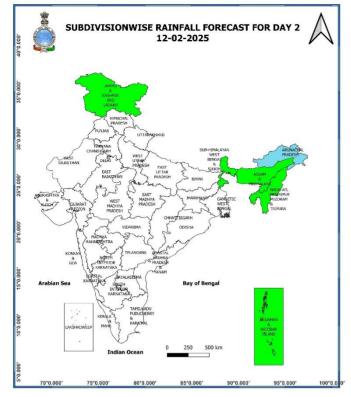


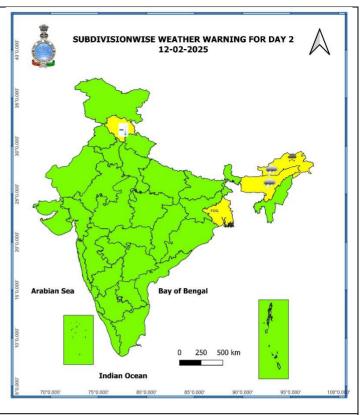
11th February (Day 1):

- ❖ Heavy Rainfall/snowfall (≥ 7 cm) very likely at isolated places of Arunachal Pradesh.
- **❖ Thunderstorm accompanied with lightning** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- **❖ Dense fog conditions** very likely in isolated pockets of Gangetic West Bengal and Bihar.
- **Cold Wave Conditions** very likely at a few places over Himachal Pradesh.







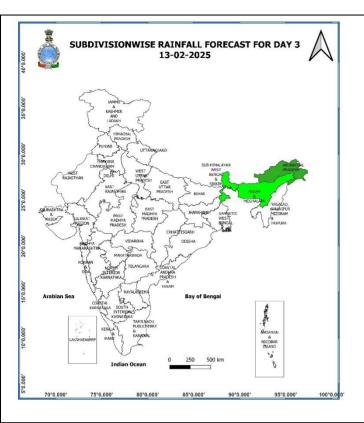


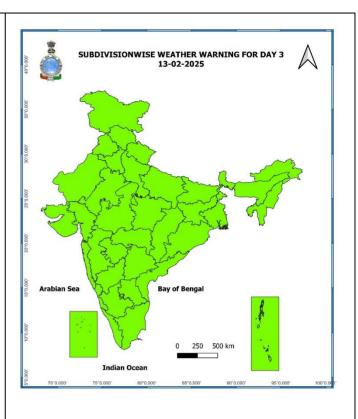
12th February (Day 2):

- **♦ Heavy Rainfall/snowfall (≥ 7 cm)** very likely at isolated places of Arunachal Pradesh.
- **❖ Thunderstorm accompanied with lightning** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- **Dense fog conditions** very likely in isolated pockets of Gangetic West Bengal.
- **Cold Wave Conditions** very likely at a few places over Himachal Pradesh.



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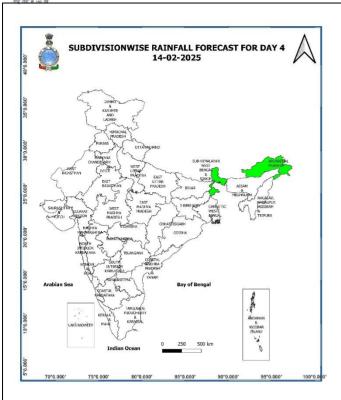


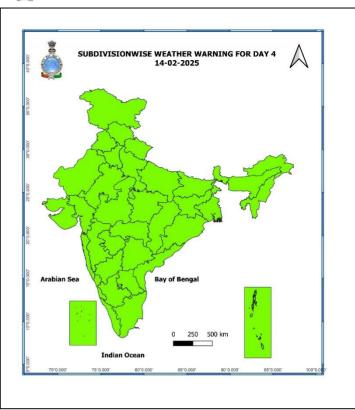


13th February (Day 3):



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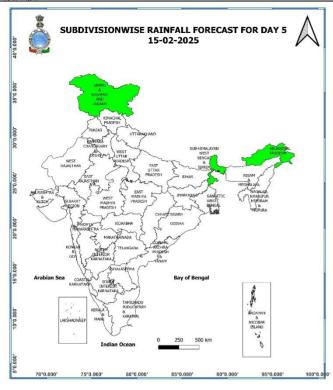


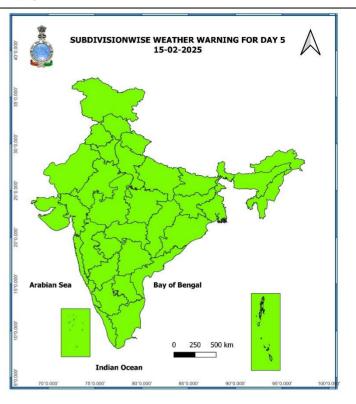
14th February (Day 4):





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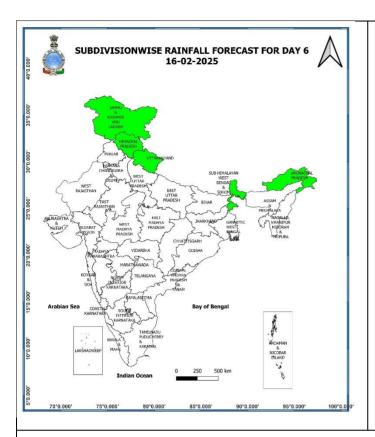


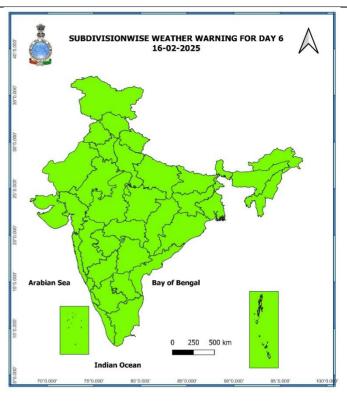


15th February (Day 5):



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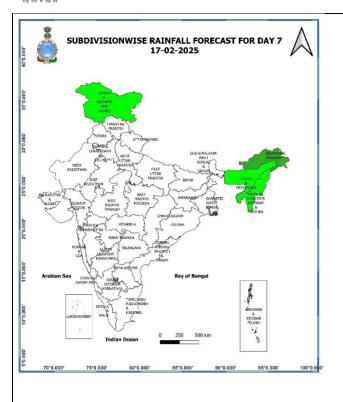


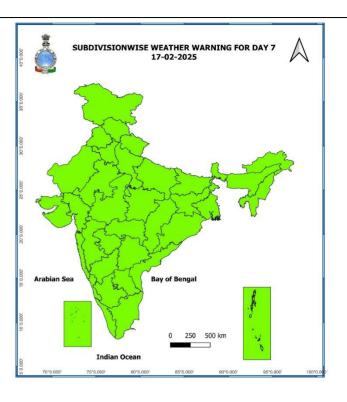


16th February (Day 6):



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17th February (Day 7):

❖ No Weather Warning.

Weather Outlook for subsequent 3 days (During 18th February- 19th February, 2025)

- **❖ Scattered to fairly widespread rainfall/snowfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- ❖ Isolated rainfall likely over Uttarakhand and Northeast India.

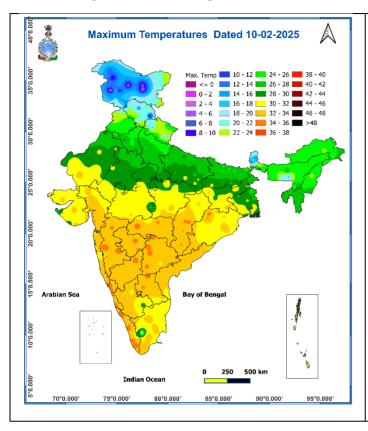
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

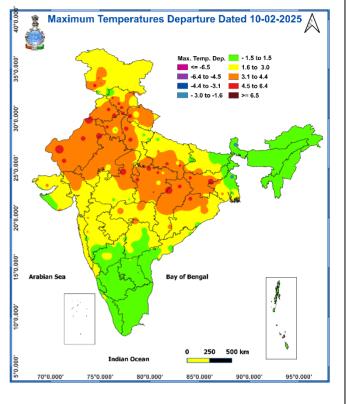
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures





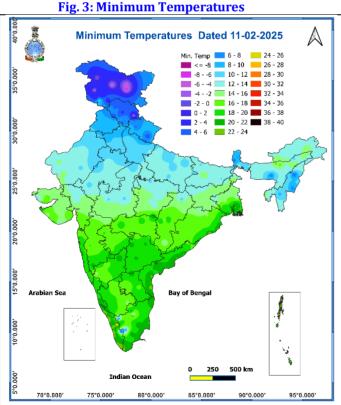


Fig. 4: Departure of Minimum Temperatures

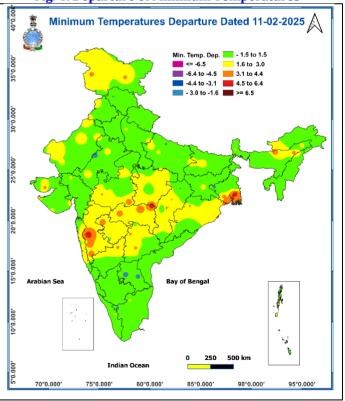
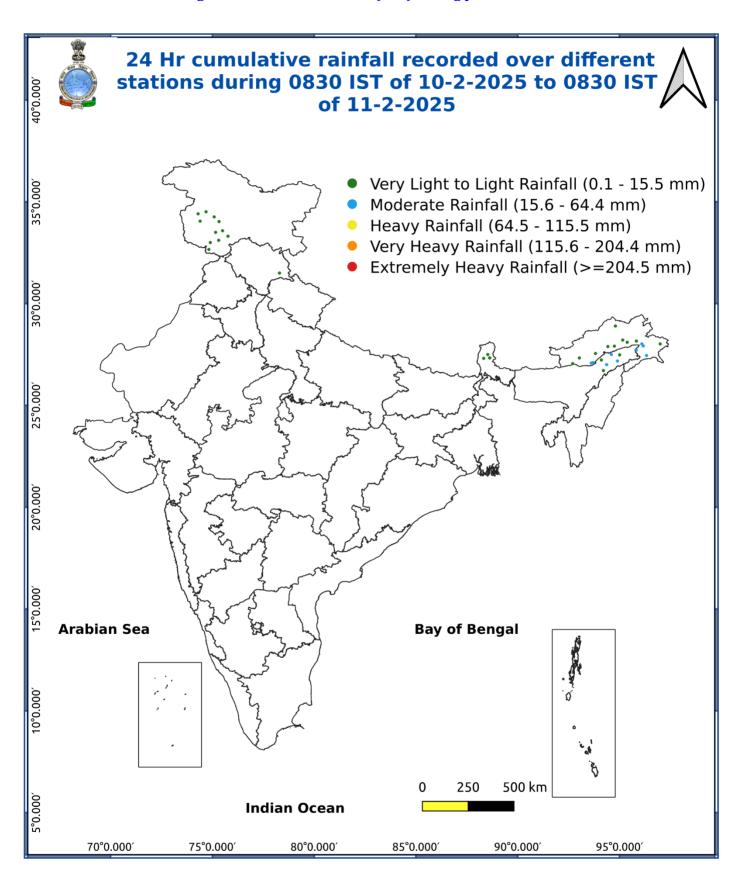






Fig. 5: Accumulated Rainfall (mm) during past 24 hours



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





(DEFINITION/CRITERIA)
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 ≥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
(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: 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 $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ 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
(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: 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
Pense 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 ≤4°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
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 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
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)