

राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



Tuesday, October 29, 2024 Time of Issue: 1330 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN Significant Weather Features:

Weather Systems:

Yesterday's upper air cyclonic circulation over south Odisha adjoining north Andhra Pradesh coast now lies over south Chhattisgarh & adjoining Odisha extends upto middle tropospheric level tilting southwards with height.

Forecast & Warnings (upto 7 days): South Peninsular India

- ✓ Light to moderate rainfall at a few places accompanied with isolated thunderstorm and lightning very likely over Kerala & Mahe, Lakshadweep, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal during 31st Oct-02nd Nov.
- ✓ Isolated heavy rainfall also very likely over north Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe on 01st & 02nd; Coastal & South Interior Karnataka on 01st Nov.

No significant weather likely over rest parts of the country.





Main Weather Observations:

- Rainfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Kerala & Mahe; at a few places over Andaman & Nicobar Islands, Odisha, Konkan & Goa, Lakshadweep; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal, Karnataka, Telangana.
- Heavy rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy rainfall at isolated places over Odisha, Konkan & Goa.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Odisha: Banarpal (dist Angul) 10, Dhamnagar (dist Bhadrak) 7; Konkan & Goa: Panjim Imd Obsy (dist North Goa) 7,
- Minimum Temperature Departures (as on 29-10-2024): Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, Uttar Pradesh, East Madhya Pradesh, Bihar, Chhattisgarh, Punjab, Haryana-Chandigarh-Delhi; appreciably above normal (3.1°C to 5.0°C) at a few places over Gujarat state; isolated places over Uttarakhand, West Madhya Pradesh, Jharkhand, Vidarbha, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra; above normal (1.6°C to 3.0°C) at isolated places over Himachal Pradesh, Marathwada, Konkan & Goa, Marathwada, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam. Today, the lowest minimum temperature of 16.3°C is reported at Delhi (Ridge) over the plains of the country. (Fig.4)
- Maximum Temperature Departures (as on 28-10-2024): Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana-Chandigarh-Delhi, East Uttar Pradesh, Chhattisgarh, East Rajasthan, Gujarat state, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Rayalaseema; above normal (1.6°C to 3.0°C) at many places over Punjab; at a few places over Vidarbha, Kerala & Mahe; at isolated places over West Uttar Pradesh, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Madhya Pradesh, Interior Karnataka, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Marathwada. Yesterday, the highest maximum temperature of 41.3°C was reported at Pokhran (West Rajasthan) over the country. (Fig. 2)





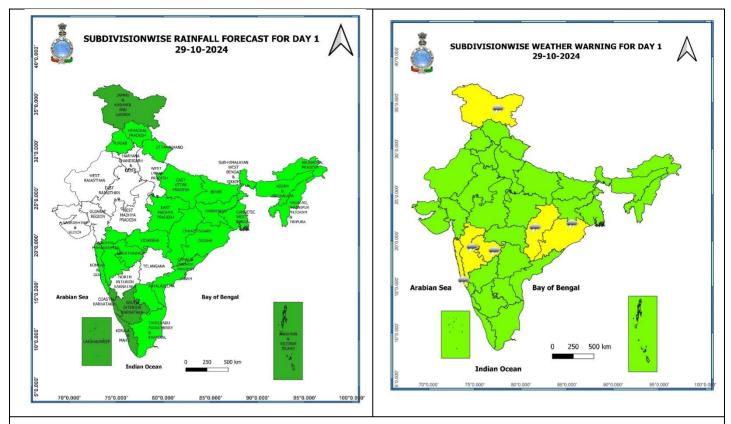
Meteorological Analysis (Based on 0830 hours IST)

- The upper air cyclonic circulation over south Odisha adjoining north Andhra Pradesh coast now lies over south Chhattisgarh & adjoining Odisha extends upto 5.8 km above mean sea level tilting southwards with height.
- ☆ A fresh Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 68°E to the north of Lat. 32°N.
- ✤ An upper air cyclonic circulation lies over northeast Assam and extends between 1.5 km and 3.1 km above mean sea level.
- The upper air cyclonic circulation over Southwest Arabian Sea extending upto 1.5 km above mean sea level persists.



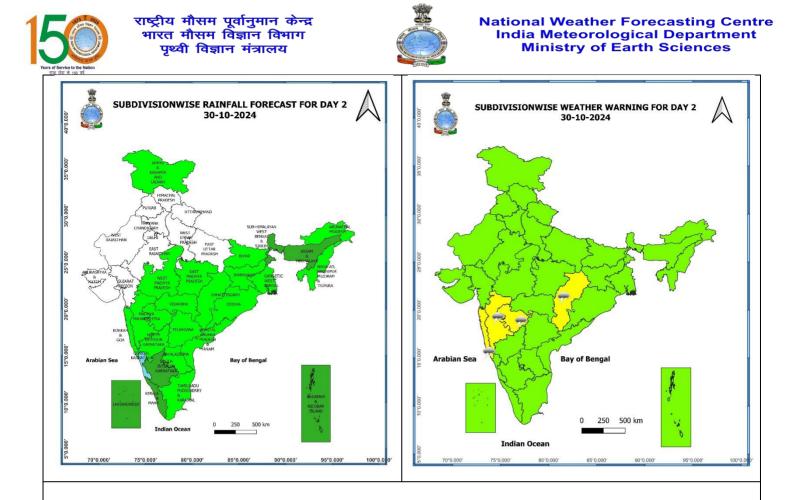


Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 05th November, 2024)



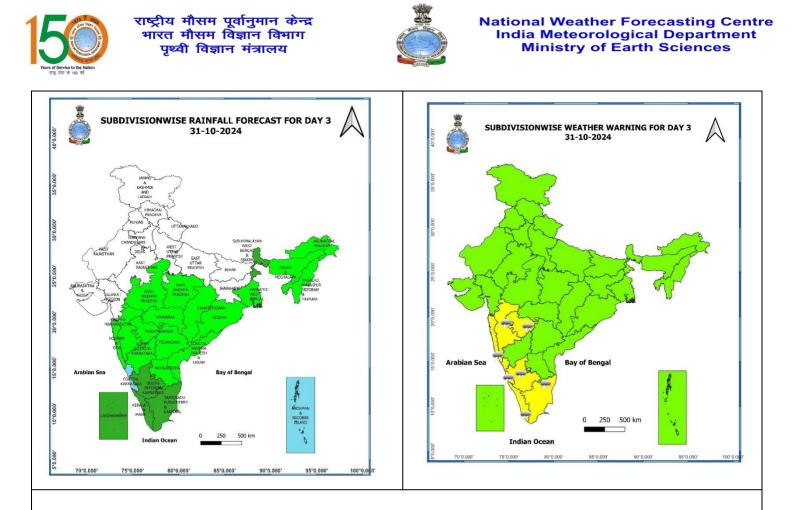
29 October (Day 1):

Thunderstorm accompanied with lightning very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Chhattisgarh, Odisha, Konkan & Goa, Madhya Maharashtra, Marathwada.



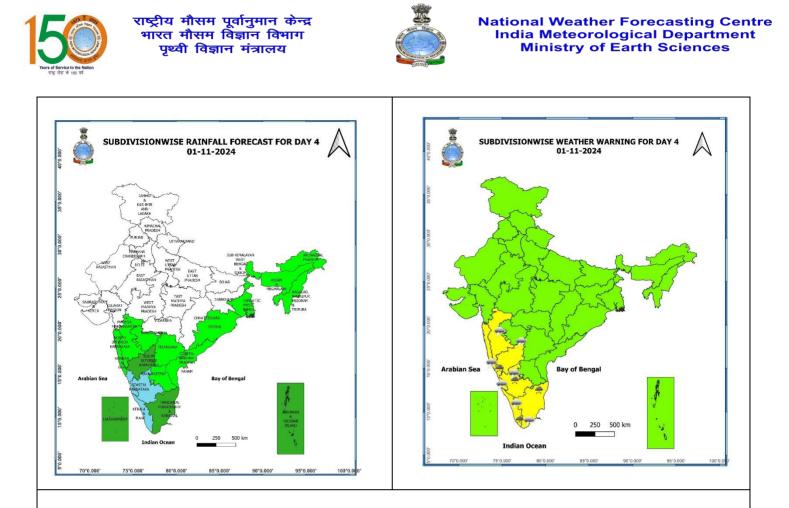
30 October (Day 2):

Thunderstorm accompanied with lightning very likely at isolated places over Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada.



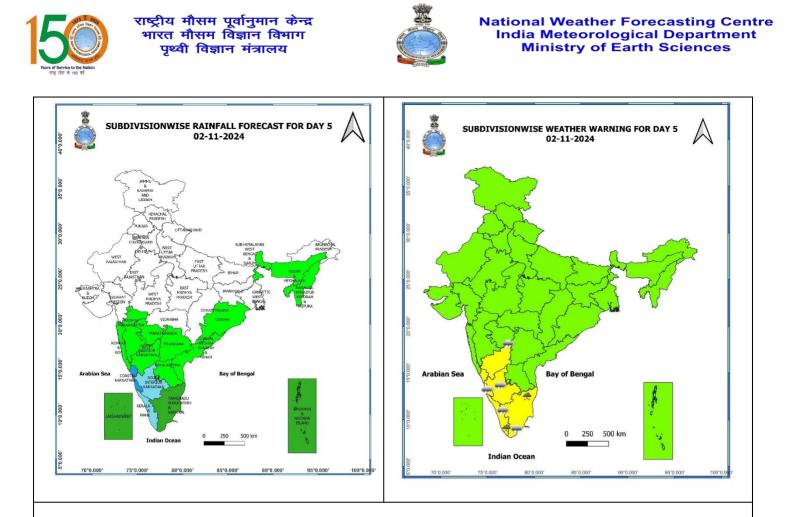
31 October (Day 3):

Thunderstorm accompanied with lightning very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Karnataka, South Interior Karnataka.



01 November (Day 4):

- ✤ Heavy rainfall (≥ 7 cm) likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal & South Interior Karnataka;
- Thunderstorm accompanied with lightning likely at isolated places over Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Karnataka.



02 November (Day 5):

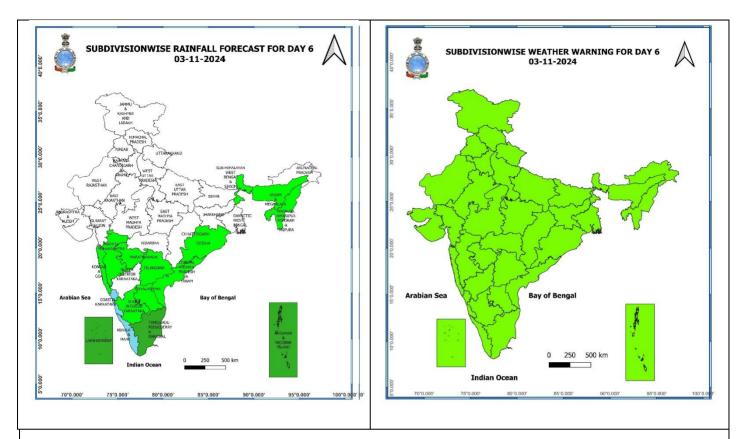
- ✤ Heavy rainfall (≥ 7 cm) likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Karnataka.



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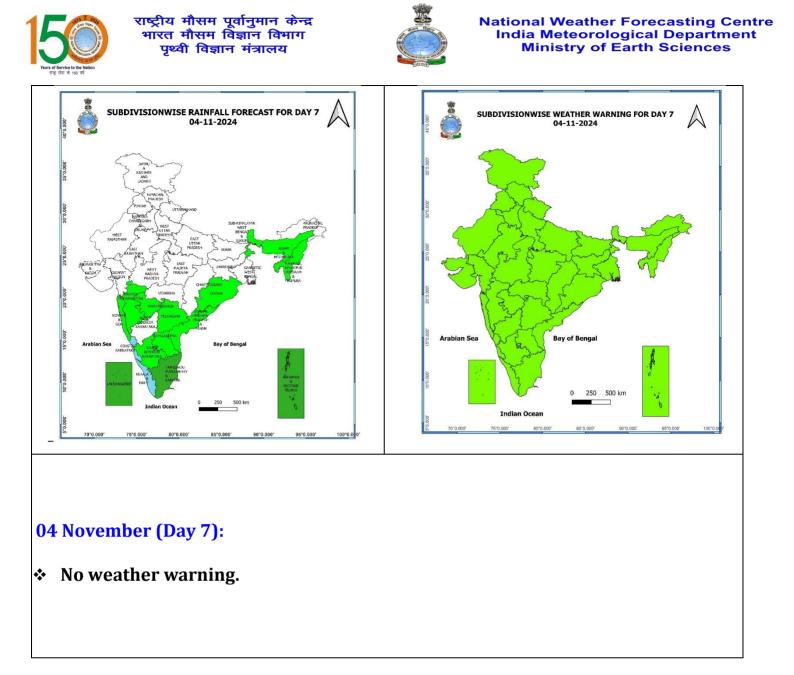


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03 November (Day 6):

No weather warning.



Weather Outlook for subsequent 3 days (During 05th November - 07th November, 2024)

- Isolated to Scattered light rainfall likely over some parts of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Northeast India.
- Mainly dry weather will prevail over rest parts of country.
- 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.



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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

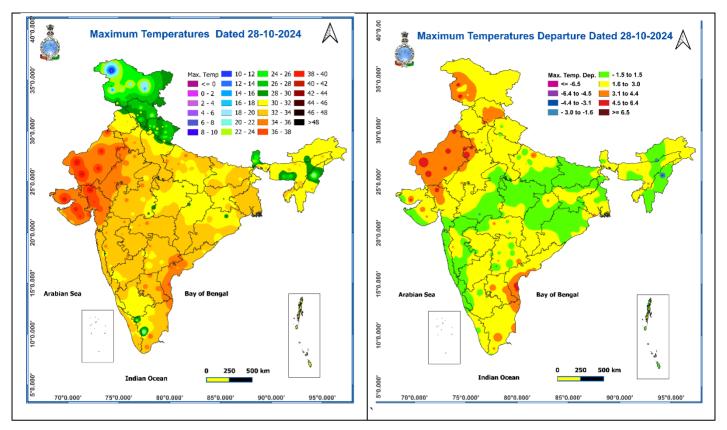
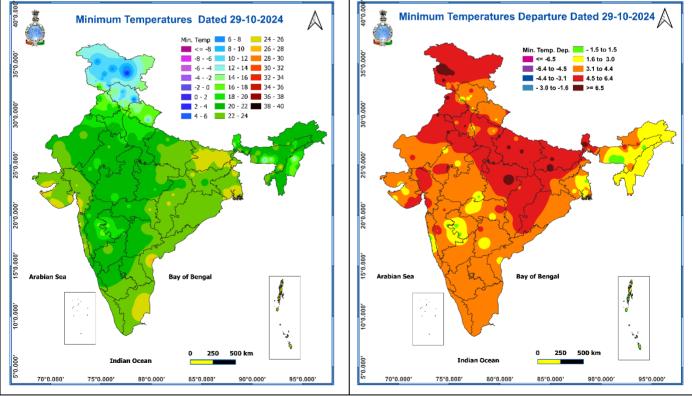




Fig. 4: Departure of Minimum Temperatures

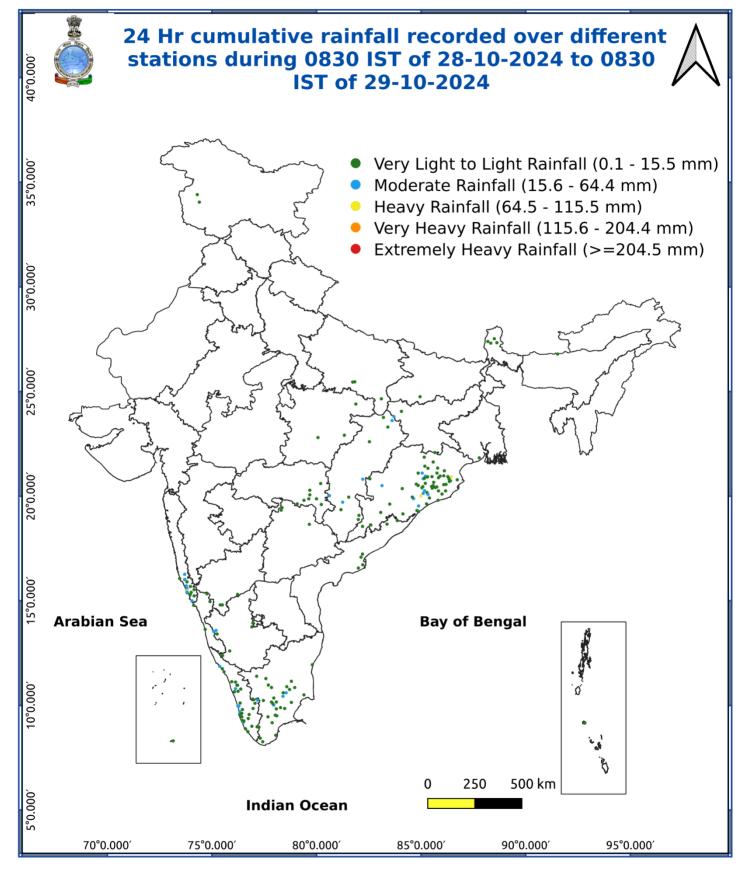


* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)





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



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🐢 Hailstorm

Sust Raising Winds



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25 - 50

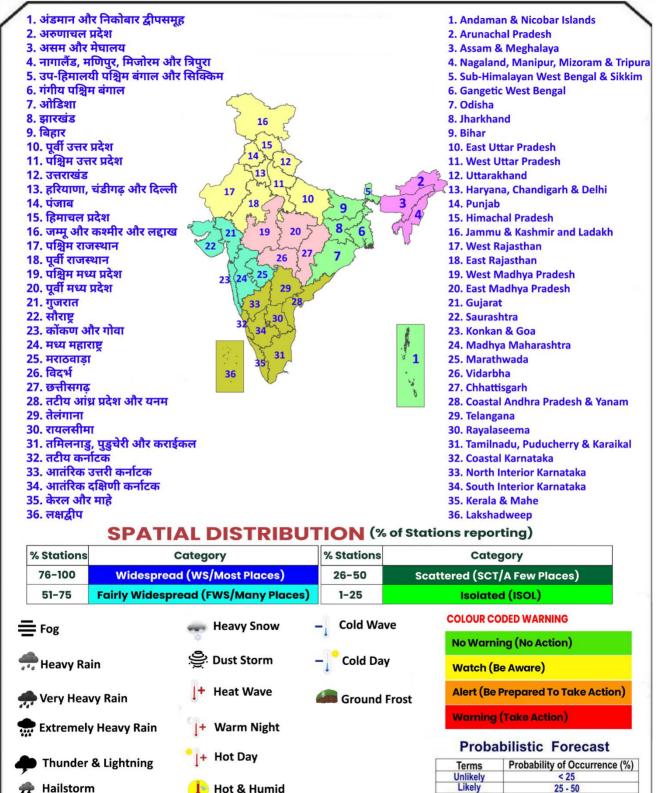
50 - 75

> 75

Very Likely

Most Likely

LEGENDS



Hot & Humid

Strong Surface Winds





Rain/ Snow *	Heavy: 64.5 to 115.5 mm/cm *
	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *
Heat Wave	When maximum temperature of a station reaches \geq 40° C for plains and \geq 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 ≥47°C 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.
Cold Wave	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 (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
Cold Day	When minimum temperature of a station $\le 10^\circ$ C for plains and $\le 0^\circ$ 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
Fog	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
	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
understorm	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.
Frost	Ice deposits on ground
	Air temperature ≤4°C (over Plains)
Squall	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
Sea State	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
Cyclone	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
	Severe Cyclonic Storm: Wind speed 62-67 Kingh (34-47 Kinds) 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 Strom: Wind speed >220 kmph (>119 knots)
	Cuper Cyclone Stront. Wind Speed 220 Milph (2113 MID(S)