



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



## Press Release

Date: 10<sup>th</sup> May, 2025

**Time of Issue: 1400 hours IST**

**Subject: i) Heat wave conditions likely over isolated pockets of East India till 14<sup>th</sup> May, 2025.**

**ii) Rainfall accompanied with thunderstorms, lightning likely to continue over Northwest India till 12<sup>th</sup> & Central India till 14<sup>th</sup> May, 2025 and decrease in intensity thereafter.**

**iii) Thunderstorm, lightning & squally winds likely over Maharashtra & Gujarat state on 10<sup>th</sup> & 11<sup>th</sup> May, 2025.**

**iv) Heavy Rainfall accompanied with thunderstorm & lightning likely over Northeast India during 10<sup>th</sup> to 14<sup>th</sup> May, 2025.**

## Advance of Southwest Monsoon:

Southwest Monsoon is very likely to advance into South Andaman Sea, some parts of Southeast Bay of Bengal and Nicobar Islands around 13<sup>th</sup> May, 2025. It is likely to advance over some parts of south Arabian Sea, Maldives & Comorin area; some more parts of South Bay of Bengal, entire Andaman & Nicobar Islands and Andaman Sea; and some parts of central Bay of Bengal during subsequent 4-5 days.

## **Realised weather during past 24 hours till 0830 hours IST of today, the 10<sup>th</sup> May 2025 (Annexure I):**

- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 30-60 kmph prevailed at isolated places over Assam & Meghalaya, Haryana, Konkan & Goa, Madhya Maharashtra, West Madhya Pradesh, Punjab, East Madhya Pradesh, Vidarbha, Chhattisgarh, Uttarakhand, East Uttar Pradesh, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
  - ❖ **Hailstorm** occurred at isolated places over East Madhya Pradesh.
  - ❖ **Heavy rainfall** has been recorded at isolated places over Madhya Maharashtra and Rayalaseema.

For more details of realised weather, kindly refer [Annexure I](#)

## Temperature:

- ❖ Maximum Temperature observations during past 24 hours till 0830 hours IST of today are appended in **Annexure II**.

i. Weather Systems, Forecast and Warnings (refer to Annexure III & IV):

- ❖ A **Western Disturbance** seen as a cyclonic circulation over north Pakistan & neighbourhood in lower tropospheric levels with a trough aloft in middle tropospheric levels roughly along Long. 70°E to the north of Lat. 30°N.
  - ❖ Another **Western Disturbance** seen as a trough in middle tropospheric levels roughly along Long. 55°E to the north of Lat. 27°N.
  - ❖ An **upper air cyclonic circulation** lies over northeast Rajasthan & neighbourhood in lower and middle tropospheric levels.
  - ❖ An **upper air cyclonic circulation** lies over Kutch and another over Saurashtra region in lower tropospheric levels.
  - ❖ A **trough** from eastcentral Arabian Sea to northwest Madhya Pradesh in lower tropospheric levels.
  - ❖ A **north-south trough** runs from Marathwada to Gulf of Mannar in lower tropospheric levels.
  - ❖ A **trough** in westerlies runs from East Uttar Pradesh to southeast Telangana in upper tropospheric levels.
  - ❖ An **upper air cyclonic circulation** lies over Northeast Assam & neighbourhood in lower tropospheric levels.
  - ❖ An **upper cyclonic circulation** lies over North Bangladesh in lower tropospheric levels.
  - ❖ An **upper air cyclonic circulation** lies over southeast Bay of Bengal and adjoining south Andaman Sea in lower and middle tropospheric levels.
  - ❖ Under the influence of these systems, the following weather is likely:

#### **Northwest India:**

- ✓ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Uttarakhand on 10<sup>th</sup> & 11<sup>th</sup>; Himachal Pradesh during 10<sup>th</sup>-12<sup>th</sup>; Punjab, Haryana, Chandigarh & Delhi on 10<sup>th</sup> & 11<sup>th</sup>; Uttar Pradesh on 10<sup>th</sup> & 11<sup>th</sup> and over Rajasthan during 10<sup>th</sup>- 12<sup>th</sup> May.
- ✓ **Isolated to Scattered** light to moderate rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh & Uttarakhand during 13<sup>th</sup>-16<sup>th</sup>; Punjab, Haryana Chandigarh during 13<sup>th</sup>-15<sup>th</sup>; East Rajasthan on 13<sup>th</sup> and East Uttar Pradesh on 15<sup>th</sup> & 16<sup>th</sup> May.

#### **West India:**

- ✓ **Isolated** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Gujarat Region on 10<sup>th</sup>, Madhya Maharashtra, Marathawada during 10<sup>th</sup>-14<sup>th</sup>; **with winds speed reaching 30-40 kmph gusting to 50 kmph** over Konkan & Goa on 10<sup>th</sup>; Gujarat State on 11<sup>th</sup> & 12<sup>th</sup> May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** over Saurashtra & Kutch on 10<sup>th</sup> May.

#### **East & Central India:**

- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim during 10<sup>th</sup>-14<sup>th</sup>; Gangetic West Bengal during 11<sup>th</sup>-14<sup>th</sup> and Odisha on 11<sup>th</sup> & 12<sup>th</sup> May; **with winds speed reaching 30-40 kmph gusting to 50 kmph** over Jharkhand on 11<sup>th</sup> May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Sub-Himalayan West Bengal & Sikkim on 12<sup>th</sup> and Chhattisgarh on 13<sup>th</sup> & 14<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** likely over Nicobar on 13<sup>th</sup>; Andaman & Nicobar Islands on 14<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim during 11<sup>th</sup>-14<sup>th</sup> with **isolated very heavy rainfall** on Sub-Himalayan West Bengal & Sikkim on 12<sup>th</sup> May.

#### **South peninsular India:**

- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka during 10<sup>th</sup>-14<sup>th</sup> and over Tamilnadu, Puducherry & Karaikal on 13<sup>th</sup> & 14<sup>th</sup>; with **lightning** over Tamilnadu Puducherry & Karaikal on 10<sup>th</sup>; Kerala & Mahe during 11<sup>th</sup>-13<sup>th</sup>; Lakshadweep during 10<sup>th</sup>-12<sup>th</sup> May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Coastal Andhra Pradesh & Yanam and Telangana on 13<sup>th</sup> & 14<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** likely over Tamilnadu Puducherry & Karaikal on 13<sup>th</sup> & 14<sup>th</sup> May.

#### **Northeast India:**

- ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Northeast India during next 5 days.
- ✓ **Isolated heavy rainfall** over Arunachal Pradesh during 10<sup>th</sup>-14<sup>th</sup>, Assam & Meghalaya during 11<sup>th</sup>-14<sup>th</sup> & 16<sup>th</sup> and over Nagaland, Manipur, Mizoram & Tripura on 11<sup>th</sup> & 12<sup>th</sup> with isolated **very heavy rainfall** over Arunachal Pradesh on 12<sup>th</sup> and over Assam & Meghalaya on 13<sup>th</sup> May.

#### **Maximum Temperature Forecast:**

- ❖ Gradual rise in maximum temperatures by 4-6°C likely over Northwest India during next 7 days.
- ❖ No significant change in maximum temperatures likely over Madhya Pradesh during next 24 hours and gradual rise by 2-4°C thereafter for subsequent 6 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over East India during next 3 days and no significant change thereafter for subsequent 4 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Maharashtra during next 2 days and no significant change thereafter for subsequent 5 days.
- ❖ Gradual rise in maximum temperatures by 3-5°C likely over Gujarat State during next 6-7 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

#### **Heat wave and Hot & Humid weather warning:**

- ❖ **Heat wave conditions** very likely in isolated pockets of West Uttar Pradesh on 15<sup>th</sup> & 16<sup>th</sup>; East Uttar Pradesh during 14<sup>th</sup>-16<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim on 10<sup>th</sup> & 11<sup>th</sup>; Gangetic West Bengal during 10<sup>th</sup>-14<sup>th</sup>; Bihar, Jharkhand, Odisha during 11<sup>th</sup>-14<sup>th</sup> May.
- ❖ **Hot & humid weather** is likely to prevail over Odisha during 10<sup>th</sup>-14<sup>th</sup>; Assam & Meghalaya on 10<sup>th</sup>; Tripura on 10<sup>th</sup> & 11<sup>th</sup>; Tamilnadu Puducherry & Karaikal during 10<sup>th</sup>-13<sup>th</sup>; Kerala & Mahe on 10<sup>th</sup> & 11<sup>th</sup> May.

#### **iv. Weather conditions and forecast over Delhi/NCR during 10<sup>th</sup> May to 13<sup>th</sup> May, 2025 (Annexure V)**

**For more details, kindly refer National Weather Bulletin:**

[https://mausam.imd.gov.in/responsive/all\\_india\\_forcast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php)

**For District wise warnings refer:** <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

#### **ANNEXURE I**

#### **Significant weather reported during past 24 hours till 0830 hours IST of today:**

- ❖ **Light/moderate Rainfall with thunderstorm & lightning** observed at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch; at isolated places over Arunachal Pradesh, Gangetic West Bengal, Odisha, Jharkhand, Uttarakhand, Punjab, Haryana, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathawada, Gujarat Region, Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Interior Karnataka.

#### **Rainfall recorded (in cm) reported during past 24 hours till 0830 hours IST of today:**

- ❖ **Madhya Maharashtra:** Sinnar (dist Nashik) 9, Nashik - Imd Obsy (dist Nashik) 3;
- ❖ **Rayalaseema:** Kuppam (dist Chittoor) 7, Santhipuram (dist Chittoor) 3;
- ❖ **Saurashtra & Kutch:** Malia (dist Junagadh) 6, Savarkundla (dist Amreli) 4;
- ❖ **Gujarat Region:** Shahera (dist Panchmahal) 5, Arnej\_aws (dist Ahmedabad) 3;

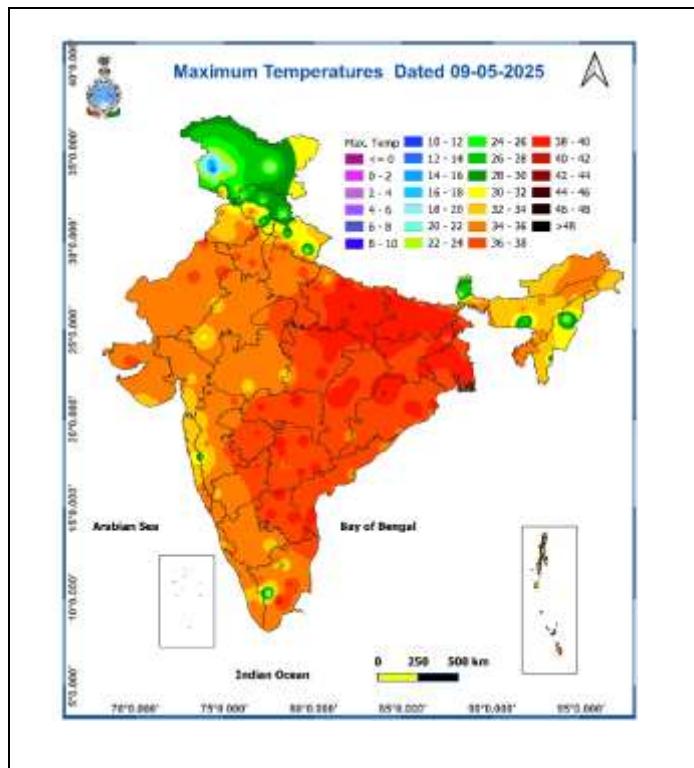
#### **Realised Gusty Winds (kmph) during past 24hours ending at 0300 UTC of today i.e 10.05.2025:**

- ❖ **Assam & Meghalaya:** Karimganj 49, Panchgram 27, Algapur\_Circle 24, Awsynram 21, Borgaon\_Hwc 20, Shillong 18, Guwahati 17, Haflong 17, Nongstoin 18, Mawkyrwat 17;
- ❖ **Haryana:** Hissar 48;
- ❖ **Konkan & Goa:** IIG\_Alibag (Raigad) 46;
- ❖ **Madhya Maharashtra:** Khutbav\_Daund (Pune) 46, Narayanagaon\_Krishi\_Kendra (Pune) 44, Niasm\_Baramati (Pune) 44, Kalwan (Nashik) 41, INS Shivaji Lonavala (Pune) 39;
- ❖ **West Madhya Pradesh:** Hardha 44;
- ❖ **Punjab:** Moga 43;
- ❖ **East Madhya Pradesh:** Singrauli 37;
- ❖ **Vidarbha:** Yavatmal, Wardha 37 each, Nagpur 28;
- ❖ **Chhattisgarh:** Koriya 35;
- ❖ **Uttarakhand:** Jollygrant 33;
- ❖ **East Uttar Pradesh:** Fatehpur 50, Lucknow Ap 37, Gorakhpur IAF 33;
- ❖ **Arunachal Pradesh:** Deomali 42, Kalaktang 41, Anini 37, Dirang 37, Longding 37;
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** Imphal 35, Porompat 35

### Temperature observations during past 24 hours till 0830 hours IST of today:

- Yesterday, Maximum Temperatures were in the range of 38-42°C in many pockets over Bihar, Uttar Pradesh, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, East Madhya Pradesh; at a few pockets over Tamil Nadu, Puducherry & Karaikal, Chhattisgarh, Jharkhand; in the range 34-37°C in many pockets over Punjab, Gujarat state, Lakshadweep; at a few pockets over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; at isolated pockets over Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Marathwada and they were less than 34°C elsewhere over remaining parts of the country. Yesterday, the highest **maximum temperature of 42.0°C** was reported at **Prayagraj (East Uttar Pradesh)** over the country.
- Yesterday, Maximum Temperatures were **markedly above normal (5.1 or more)** at isolated places over Arunachal Pradesh, Assam & Meghalaya; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Bihar, Nagaland, Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at many places over Gangetic West Bengal; at isolated places over Odisha, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe. These were **markedly below normal (-5.1 or below)** at many places over Rajasthan, West Madhya Pradesh, Gujarat Region; at isolated places over Saurashtra & Kutch, Madhya Maharashtra, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Vidarbha, East Madhya Pradesh, Marathwada; **below normal (-1.6°C to -3.0°C)** at many places over East Uttar Pradesh, Chhattisgarh, Konkan & Goa, Punjab; at a few places over Telangana, Haryana-Chandigarh-Delhi, North Interior Karnataka and normal over rest parts of the country. (Fig. 2).

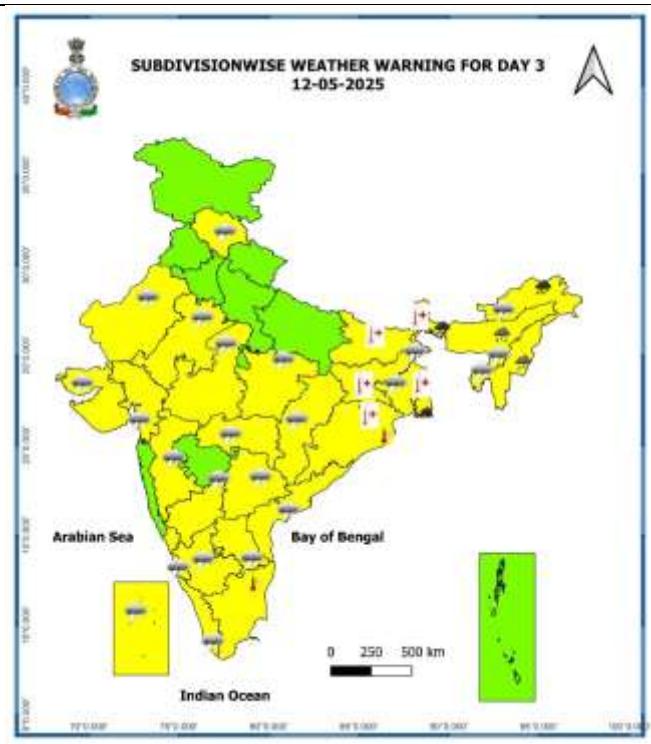
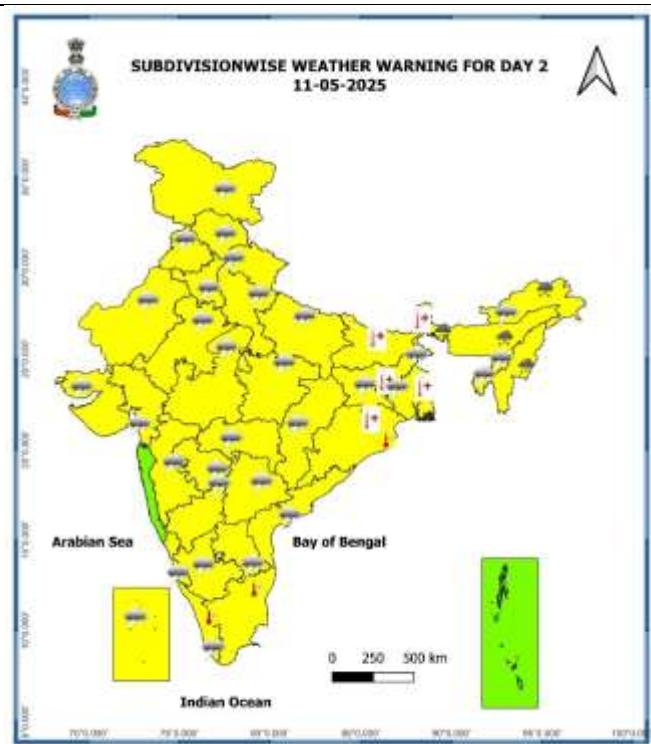
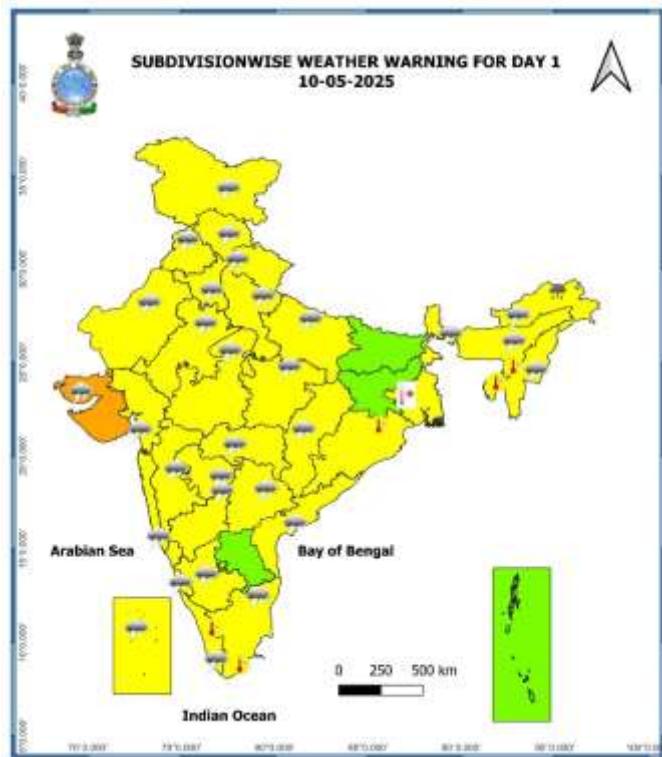
**Fig. 1: Maximum Temperatures**

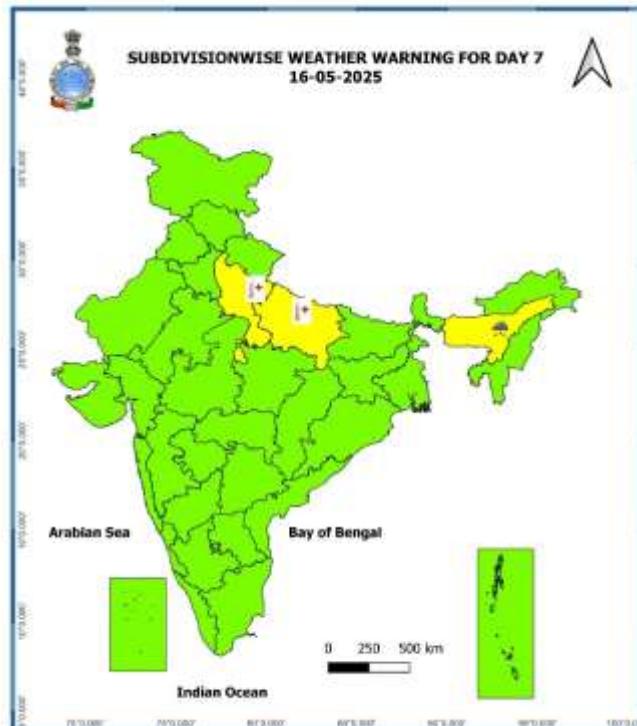
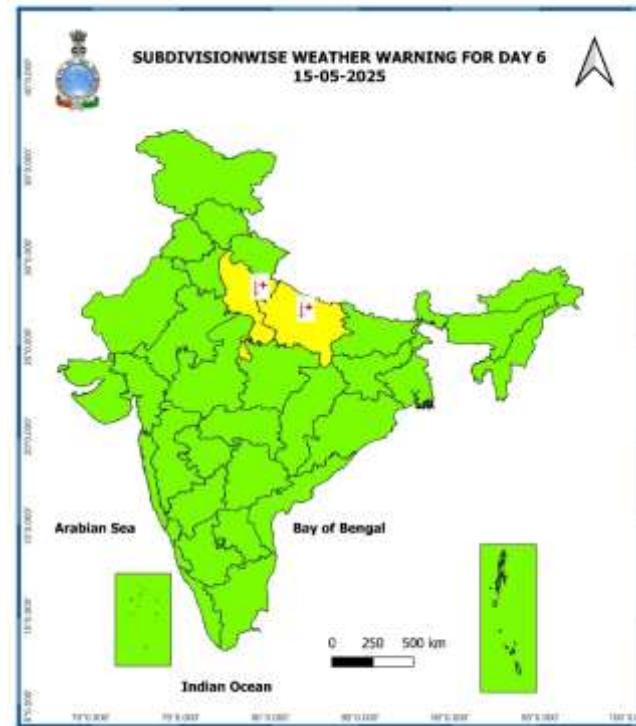
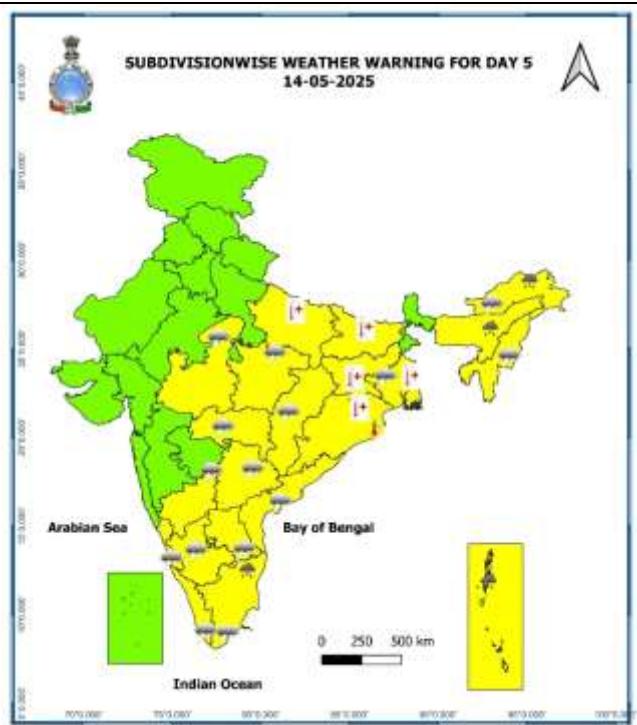
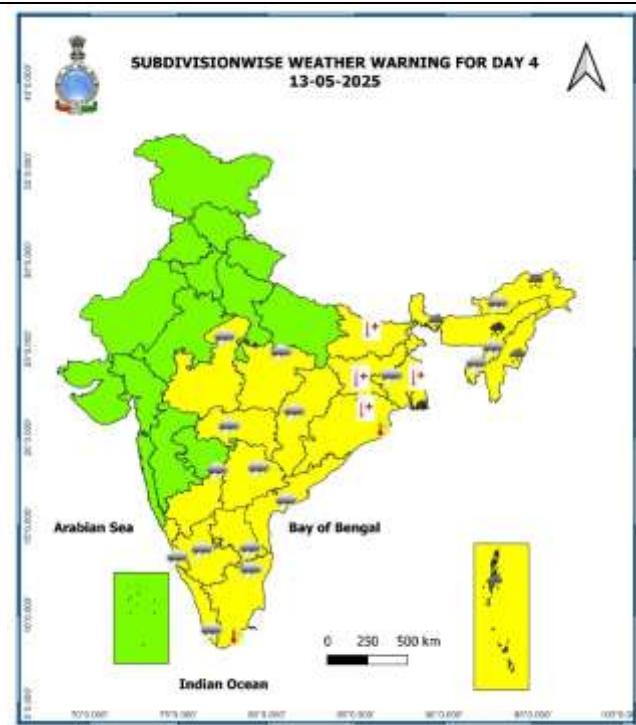


7 Days Rainfall Forecast								
S. No.	Subdivision	10-May	11-May	12-May	13-May	14-May	15-May	16-May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	FWS	FWS	WS	WS	WS	FWS	FWS
3	ASSAM & MEGHALAYA	SCT	FWS	WS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	FWS	WS	WS	WS	FWS	FWS
6	GANGETIC WEST BENGAL	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
7	ODISHA	ISOL						
8	JHARKHAND	DRY	ISOL	DRY	DRY	ISOL	ISOL	ISOL
9	BIHAR	ISOL	DRY	DRY	DRY	ISOL	SCT	ISOL
10	EAST UTTAR PRADESH	ISOL	ISOL	DRY	DRY	DRY	ISOL	ISOL
11	WEST UTTAR PRADESH	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	DRY
14	PUNJAB	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	DRY
15	HIMACHAL PRADESH	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL						
20	EAST MADHYA PRADESH	ISOL						
21	GUJARAT REGION	SCT	ISOL	ISOL	ISOL	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	SCT	ISOL	ISOL	ISOL	DRY	DRY	DRY
23	KONKAN & GOA	ISOL						
24	MADHYA MAHARASHTRA	ISOL						
25	MARATHAWADA	ISOL						
26	VIDARBHA	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
27	CHHATTISGARH	ISOL						
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	SCT	SCT	FWS	FWS	SCT
29	TELANGANA	ISOL	ISOL	SCT	FWS	FWS	FWS	SCT
30	RAYALASEEMA	ISOL	ISOL	SCT	SCT	FWS	FWS	FWS
31	TAMILNADU PUDUCHERRY & KARAikal	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	ISOL	SCT	SCT	FWS	FWS	WS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	SCT	SCT	FWS	WS	FWS
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	SCT	FWS	FWS	WS	FWS
35	KERALA & MAHE	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	SCT						

- As the lead period increases forecast accuracy decreases.

## **ANNEXURE IV**





- 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.

Detailed district wise Multi Hazard weather warning for next five days available at  
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

## **Weather forecast over Delhi/NCR during 10<sup>th</sup> to 13<sup>th</sup> May 2025**

### **Past Weather:**

There has been no large change in minimum and maximum temperature over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 36 to 37°C and 24 to 26°C, respectively. The minimum temperature was near normal and the maximum temperature was below normal up to 02 - 04°C over Delhi/NCR. Partly cloudy sky conditions with predominant surface wind from the southwest/southeast direction, with wind speeds less than 18 kmph prevailed during the past 24 hours. Partly cloudy sky conditions with wind speed less than 08 kmph from the southeast direction prevailed over the region in the forenoon today.

### **Weather Forecast:**

**10.05.2025:** Partly cloudy sky. Very light to light rain accompanied with thunderstorms/lightning and strong surface winds during afternoon/evening. Wind speed may increase temporarily up to 30-40 kmph gusting to 50 kmph during thunderstorms. The maximum temperatures over Delhi are likely to be in the range of 36 to 38°C. The maximum temperature will be below normal upto 01 - 03°C. The predominant surface wind will likely be from the southwest direction with a wind speed of less than 12 kmph till evening. It would increase becoming less than 20 kmph from the southwest direction during the night.

**11.05.2025:** Partly cloudy sky. Sustained surface winds (speed 15 – 25 kmph) occasionally gusting to 35 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 38 to 40°C and 26 to 28°C, respectively. The minimum temperature will be above normal up to 01 - 03 °C, and the maximum temperature will be near normal. The predominant surface wind will likely be from the northwest direction with a wind speed of 10-15 kmph during morning hours. The wind speed will gradually increase becoming 15-20 kmph from the northwest direction in the afternoon. It will increase becoming less than 18 kmph from the northwest direction during evening and night.

**12.05.2025:** Partly cloudy sky. Sustained surface winds (speed 15 – 25 kmph) occasionally gusting to 35 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 39 to 41°C and 27 to 29°C respectively. The minimum temperature will be above normal up to 02 - 04 °C and the maximum temperature will be above normal up to 01 - 02 °C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 18 kmph during the morning hours. The wind speed will gradually increase becoming 16-20 kmph from the northwest direction in the afternoon. It will decrease becoming less than 16 kmph from the northwest direction during evening and night.

**13.05.2025:** Partly cloudy sky. Sustained surface winds (speed 15 – 25 kmph) occasionally gusting to 35 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 39 to 41°C and 27 to 29°C, respectively. The minimum temperature will be above normal up to 02 - 04 °C, and the maximum temperature will be below normal up to 01 - 02 °C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 18 kmph during the morning hours. The wind speed will gradually decrease becoming 10-14 kmph from the northwest direction in the afternoon. It will increase becoming less than 16 kmph from the northwest direction during evening and night.

### **Impact expected and Action Suggested:**

- Be cautious and take precautionary measures though there is no likelihood of heat wave conditions. There is likelihood of heat related impact to vulnerable population as the temperatures are likely to be above normal.
- Moderate health concern for vulnerable people e.g. infants, elderly people with chronic diseases.
- Avoid heat exposure, wear light weight, light colored, loose, cotton clothes, cover your head, use a cloth, hat or umbrella.

**Impact & Action Suggested due to heavy to very heavy rainfall over** Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh on 12<sup>th</sup> and over Assam & Meghalaya on 13<sup>th</sup> May.

**Impact Expected**

- ❖ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ❖ Minor damage to kutch roads.
- ❖ Possibilities of damage to vulnerable structure.
- ❖ Localized Landslides/Mudslides
- ❖ Damage to horticulture and standing crops in some areas due to inundation.
- ❖ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

**Action Suggested**

- ❖ Check for traffic congestion on your route before leaving for your destination.
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.

**Impact expected and action suggested due to isolated thunderstorm with lightning/gusty & Squally winds & Hailstorm over**

- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** over Saurashtra & Kutch on 10<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim on 12<sup>th</sup>; Chhattisgarh, Coastal Andhra Pradesh & Yanam and Telangana on 13<sup>th</sup> & 14<sup>th</sup> May.

**Impact expected:**

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutch houses/walls and huts.
- Loose objects may fly.

**Action suggested:**

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

**Impact expected and action suggested due to Heat wave conditions over** West Uttar Pradesh on 15<sup>th</sup> & 16<sup>th</sup>; East Uttar Pradesh during 14<sup>th</sup>-16<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim on 10<sup>th</sup> & 11<sup>th</sup>; Gangetic West Bengal during 10<sup>th</sup>-14<sup>th</sup>; Bihar, Jharkhand, Odisha during 11<sup>th</sup>-14<sup>th</sup> May.

#### **Yellow alert Areas**

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

#### **Agromet advisories for likely impact of Heavy Rainfall / Gusty Winds / Heat Wave**

- In **Sub Himalayan West Bengal & Sikkim and North Eastern States**, make provision to drain out excess water from standing crop and vegetable fields.
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.
- To protect standing crops, vegetables and orchards from the adverse effects of heat waves and high temperatures, apply light and frequent irrigation in the evening.

#### **Livestock / Poultry / Fishery**

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty of drinking water to animals.

#### **Legends & abbreviations:**

- ❖ **Heavy Rain:** 64.5-115.5mm; **Very Heavy Rain:** 115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District: **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- ❖ **Region wise classification of meteorological Sub-Divisions:**
  - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
  - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
  - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
  - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
  - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
  - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

## LEGENDS

1. अंडमान और निकोबार द्वीपसमूह

2. अरुणाचल प्रदेश

3. असम और मेघालय

4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल

7. ओडिशा

8. झारखण्ड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखण्ड

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. कोकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुदुचेरी और कराईकल

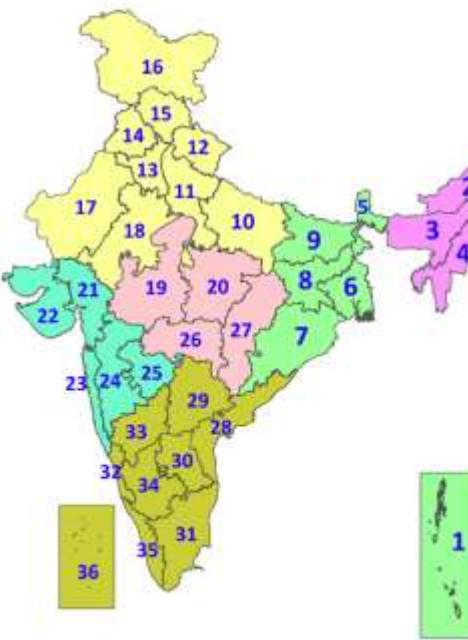
32. तटीय कर्नाटक

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

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

27. Chhattisgarh

28. Coastal Andhra Pradesh & Yanam

29. Telangana

30. Rayalaseema

31. Tamilnadu, Puducherry & Karaikal

32. Coastal Karnataka

33. North Interior Karnataka

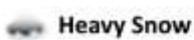
34. South Interior Karnataka

35. Kerala & Mahe

36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

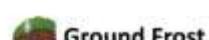
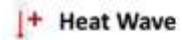
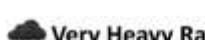
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)		
51-75	Fairly Widespread (FWS/Many Places)		
26-50	Scattered (SCT/A Few Places)		
1-25	Isolated (ISOL)		



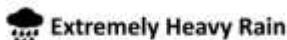
### COLOUR CODED WARNING



No Warning (No Action)



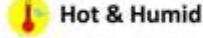
Watch (Be Aware)



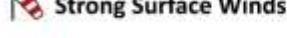
Alert (Be Prepared To Take Action)



Warning (Take Action)



### Probabilistic Forecast



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

\* 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)

## DEFINITION/CRITERIA

### 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 \*

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
 (a) Based on Departure from normal

**Heat Wave:** Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

**Severe Heat Wave:** Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

### Heat Wave

(b). Based on Actual maximum temperature

**Heat Wave:** When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .

**Severe Heat Wave:** When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $>4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$

### Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

**Warm Night:** When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

**Severe Warm Night:** When minimum temperature departure  $>6.4^{\circ}\text{C}$ .

### Cold Wave

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

**Severe Cold Wave:** Minimum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

**Cold Wave :** When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$

**Severe Cold Wave:** When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  & actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$

### Cold Day

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions

Based on departure

**Cold Day:** Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

**Severe Cold Day:** Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

### Fog

Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{ km}$

**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

### 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.

### Frost

Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  ( 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 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)

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**Hot and Humid:** When maximum temperatures remain  $3^{\circ}\text{C}$  above normal along with the above normal relative humidity.