



**Government of India  
Ministry of Earth Sciences  
India Meteorological Department**



**Press Release**

**Date: 03<sup>rd</sup> May, 2025**

**Time of Issue: 1345 hours IST**

- Subject: i) Rainfall accompanied with thunderstorm & squally/gusty winds likely to continue over northwest India till 07<sup>th</sup> May, 2025.**  
**ii) Rainfall accompanied with thunderstorms, lightning, Hailstorms, squally/gusty winds likely over central, east & Peninsular India during next 4-5 days.**  
**iii) A heavy spell of rainfall accompanied with thunderstorm & lightning likely over northeast India during 05<sup>th</sup> to 08<sup>th</sup> May, 2025.**

**Realised weather during past 24 hours till 0830 hours IST of today, the 03<sup>rd</sup> May 2025  
(Annexure I):**

- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 70-100 kmph prevailed at some places over Telangana; with speed 40-70 kmph prevailed at isolated places over Tamilnadu Puducherry & Karaikal, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Madhya Pradesh, Chhattisgarh, Punjab, Haryana Chandigarh & Delhi, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh.
- ❖ **Hailstorm** occurred at isolated places over East Madhya Pradesh, Telangana.
- ❖ **Heavy rainfall** recorded at isolated places over Uttarakhand, Interior Karnataka, Kerala.

**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 as a cyclonic circulation over north Pakistan & neighbourhood in lower & middle tropospheric levels.
- ❖ An upper air cyclonic circulation lies over northwest Rajasthan and another over West Uttar Pradesh in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over southeast Rajasthan. A north-south trough runs from this cyclonic circulation to south Tamil Nadu and an east-west trough runs from this cyclonic circulation to north Odisha in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over north Bangladesh and another over northeast Assam in lower tropospheric levels.
- ❖ Under the influence of these systems, the following weather is likely:

**East & Central India:**

- ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Bihar, Jharkhand, Odisha, West Bengal & Sikkim till 04<sup>th</sup> May; Madhya Pradesh, Vidarbha, Chhattisgarh till 06<sup>th</sup> May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over West Madhya Pradesh on 05<sup>th</sup> & 06<sup>th</sup>; Madhya Pradesh, Odisha on 03<sup>rd</sup> & 04<sup>th</sup>; Gangetic West Bengal, Jharkhand, Chhattisgarh on 03<sup>rd</sup>; Bihar on 05<sup>th</sup> May.

- ✓ **Isolated hailstorm** activity likely over Sikkim, Odisha, Chhattisgarh, West Madhya Pradesh on 03<sup>rd</sup>; East Madhya Pradesh on 03<sup>rd</sup> & 04<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** likely over Odisha on 03<sup>rd</sup> & 04<sup>th</sup> May.

#### Northwest India:

- ✓ **Scattered to fairly widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 40-60 kmph** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh and isolated to scattered rainfall over Rajasthan during 03<sup>rd</sup>-09<sup>th</sup> May.
- ✓ **Isolated hailstorm** very likely over Himachal Pradesh on 03<sup>rd</sup> & 04<sup>th</sup> and Uttarakhand during 03<sup>rd</sup>-06<sup>th</sup> May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Uttarakhand during 03<sup>rd</sup>-06<sup>th</sup>; Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh on 04<sup>th</sup> & 05<sup>th</sup>; East Uttar Pradesh on 05<sup>th</sup> May.
- ✓ **Duststorm** very likely at isolated places over West Rajasthan during 03<sup>rd</sup>-05<sup>th</sup> and East Rajasthan on 03<sup>rd</sup> & 04<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** likely over southwest Rajasthan on 06<sup>th</sup> & 07<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 Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal during next 7 days.
- ✓ **Isolated hailstorm** very likely over North Interior Karnataka on 05<sup>th</sup> & 06<sup>th</sup> and South Interior Karnataka on 06<sup>th</sup> & 07<sup>th</sup> May.
- ✓ **Thundersquall** wind speed reaching 50-60 kmph likely over South Interior Karnataka during 03<sup>rd</sup>-05<sup>th</sup> and North Interior Karnataka on 06<sup>th</sup> & 07<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** over South Interior Karnataka on 03<sup>rd</sup>; Kerala & Mahe on 03<sup>rd</sup>, 06<sup>th</sup> & 07<sup>th</sup>; Tamil Nadu on 05<sup>th</sup> & 06<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 7 days.
- ✓ **Isolated heavy rainfall** over Assam & Meghalaya and Arunachal Pradesh during 05<sup>th</sup>-08<sup>th</sup> May.
- ✓ **Thundersquall** wind speed reaching 50-60 kmph likely over Assam & Meghalaya today.

#### West India:

- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Gujarat, Konkan & Goa, Madhya Maharashtra and Marathawada during 03<sup>rd</sup>-08<sup>th</sup> May.
- ✓ **Isolated hailstorm** very likely over Gujarat state on 05<sup>th</sup> & 06<sup>th</sup> and Madhya Maharashtra & Marathawada on 07<sup>th</sup> May.
- ✓ **Thundersquall** wind speed reaching 50-60 kmph likely over Gujarat state on 06<sup>th</sup> & 07<sup>th</sup> and Madhya Maharashtra & Marathawada on 07<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** likely over Gujarat state on 07<sup>th</sup> & 08<sup>th</sup> May.

#### Temperature Forecast:

- ❖ No significant change in maximum temperatures likely over Northwest India during next 3 days and rise by 2-4°C thereafter for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over West India during next 24 hours; fall by 2-4°C thereafter for subsequent 4 days and no significant change for subsequent 2 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

#### Heat wave, warm night and Hot & Humid weather warning:

- ❖ **Hot & humid weather** is likely to prevail over Tamilnadu Puducherry & Karaikal on 03<sup>rd</sup> May.

#### iv. Weather conditions and forecast over Delhi/NCR during 03<sup>rd</sup> May to 06<sup>th</sup> May, 2025 (Annexure V)

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

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_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 most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe; at many places over West Uttar Pradesh, Uttarakhand, Rayalaseema, South Interior Karnataka; at a few places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Himachal Pradesh, Uttarakhand, Lakshadweep, Coastal Karnataka; at isolated places over Punjab, Haryana Chandigarh & Delhi, Rajasthan, East Uttar Pradesh, Assam & Meghalaya, Jharkhand, Madhya Pradesh, Chhattisgarh, Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka.

### Rainfall recorded (in cm):

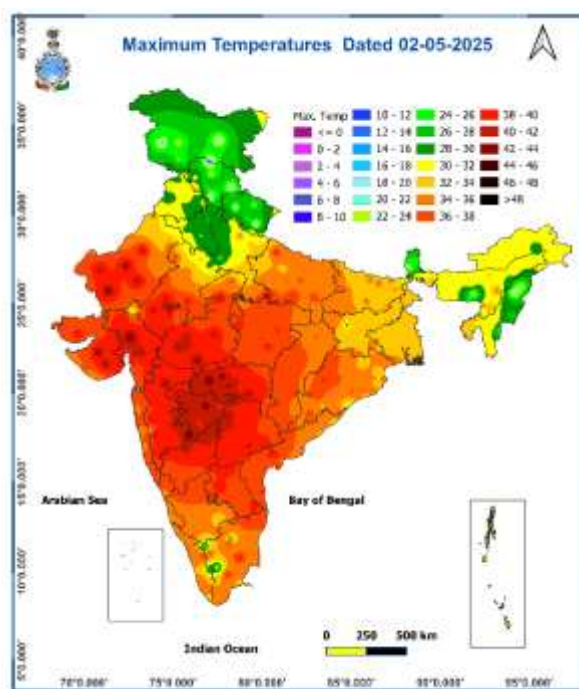
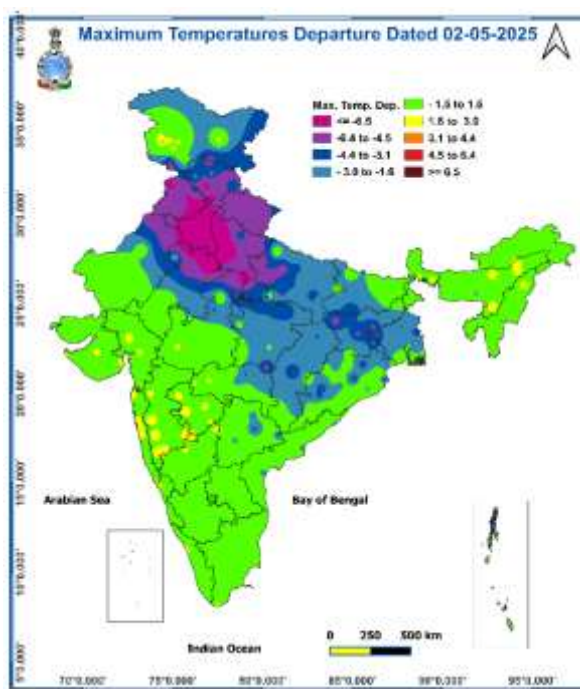
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** Champai AWS (dist Champhai) 7; Lengpui (dist Aizawl) 5;
- ❖ **Uttarakhand:** Joshimath (dist Chamoli) 9; Haripur (dist Dehradun) 6;
- ❖ **Tamil Nadu:** Kuzhithurai (dist Kanyakumari), Vembakottai (dist Virudhunagar) 5 Each;
- ❖ **North Interior Karnataka:** Hirekerur (dist Haveri) 5;
- ❖ **South Interior Karnataka:** Honnali (dist Davangere) 9; T G Halli HMS (dist Bengaluru Urban), Davanagere (dist Davangere), Chikkamagaluru PTO (dist Chikkamagaluru) 5 Each;
- ❖ **Kerala & Mahe:** Vellayani AWS (dist Thiruvananthapuram) 10; Trivandrum AP (dist Thiruvananthapuram) 9; Airport Chakka ARG (dist Thiruvananthapuram) 7; Kurudamannil (dist Pathanamthitta), Punalur (dist Kollam), Thiruvananthapuram (dist Thiruvananthapuram) 6 Each; Vaikkom AWS (dist Kottayam) 5.

### Realised Gusty wind since last 24 hours (till 0830 hrs IST) (Max Gust in kmph)

- ❖ **Gangetic West Bengal:** Digba 48 Kmph, Alipore 71 Kmph, Dumdum 51 Kmph
- ❖ **Arunachal Pradesh:** LOWERTATO=50
- ❖ **Assam & Meghalaya:** SILCHAR\_JNS\_COLLEGE = 31, TURA = 50 NONGSTOIN\_KVK = 39 SHILLONG = 35 Tura AWS: 48 Nongstoin AWS: 39
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** CHIEPHOBOZOU\_NERHEMA \_AWD =31, IMPHAL\_AMFU = 31, SIPAHIJALA=31
- ❖ **Bihar:** East Champaran (41)
- ❖ **Jammu-Kashmir:** REASI\_KVK=37, BARAMULA\_KVK=35, KUPWAR\_KVK=41
- ❖ **Himachal Pradesh:** BILASPUR=72, RECKON=48, NERI=25, KOTKHA= 41
- ❖ **Punjab:** HOSHIARPUR= 59, FATEHGARH SAHIB= 57
- ❖ **Haryana Chandigarh & Delhi:** MANDKOLA= 50, KARNAL=46,
- ❖ **East Uttar Pradesh:** KUSHINAGAR(AP)-37
- ❖ **East Madhya Pradesh:** JABALPUR 42

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

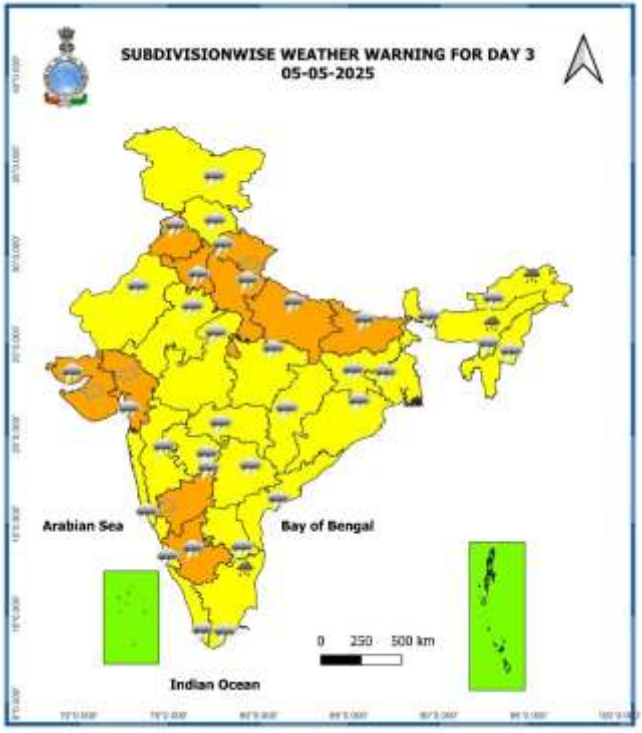
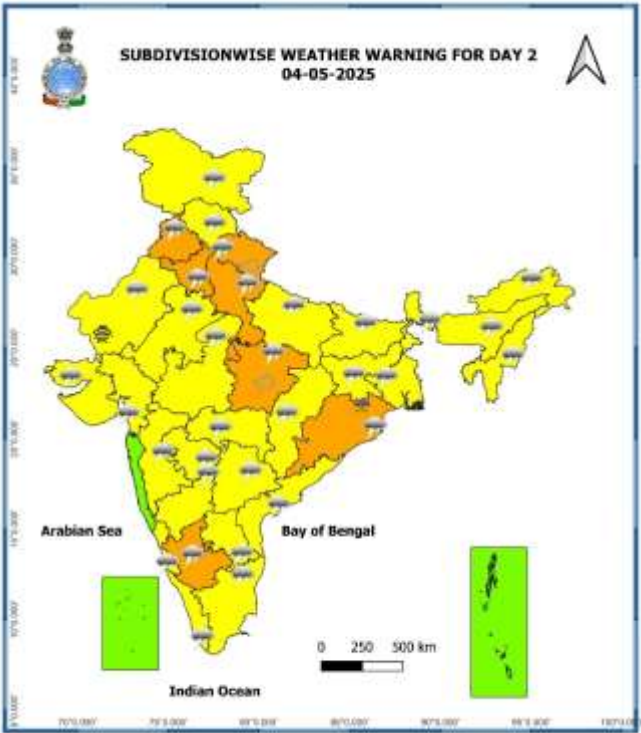
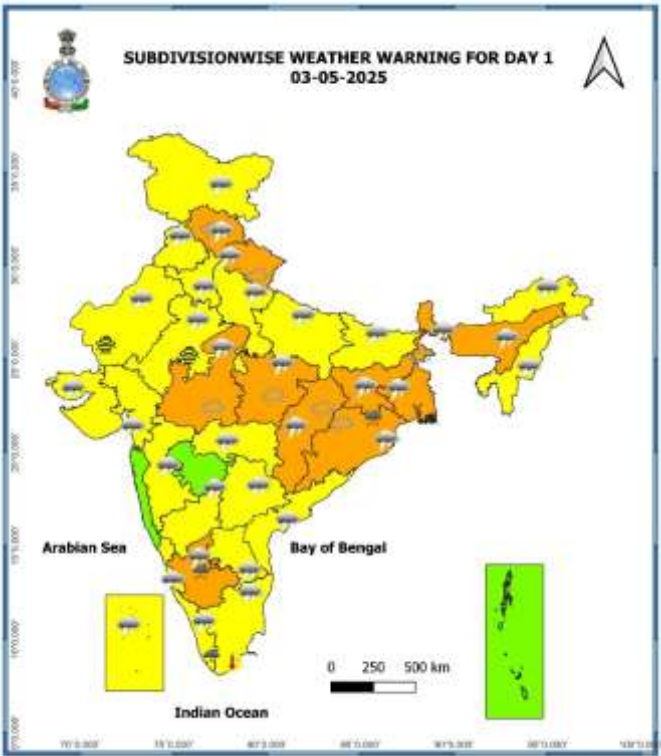
- ❖ Yesterday, Maximum Temperatures were in the range of 42-46 °C at a few places over Maharashtra, south Rajasthan; at isolated places over West Madhya Pradesh, Telangana; 38- 42°C at a few places over East Madhya Pradesh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal; at isolated places over Gujarat state, Coastal Andhra Pradesh & Yanam, Odisha, East Uttar Pradesh. Yesterday, the highest maximum temperature of 44.9°C was reported at Akola (Vidarbha) over the country.
- ❖ Yesterday, Maximum Temperatures were above normal (1.6°C to 3.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, North Interior Karnataka, Assam & Meghalaya, Nagaland. These were markedly below normal (-5.1 or below) at most places over Haryana-Chandigarh-Delhi, West Uttar Pradesh, Uttarakhand, Punjab; at many places over Himachal Pradesh; at a few places over Rajasthan, East Uttar Pradesh, West Madhya Pradesh; at isolated places over Jharkhand, Odisha; appreciably below normal (-3.1°C to -5.0°C) at many places over few places over East Madhya Pradesh; at isolated places over Chhattisgarh, Gangetic West Bengal, Bihar; below normal (-1.6°C to -3.0°C) at isolated places over Rayalaseema, Coastal Andhra Pradesh & Yanam and normal over rest parts of the country (Fig. 2).

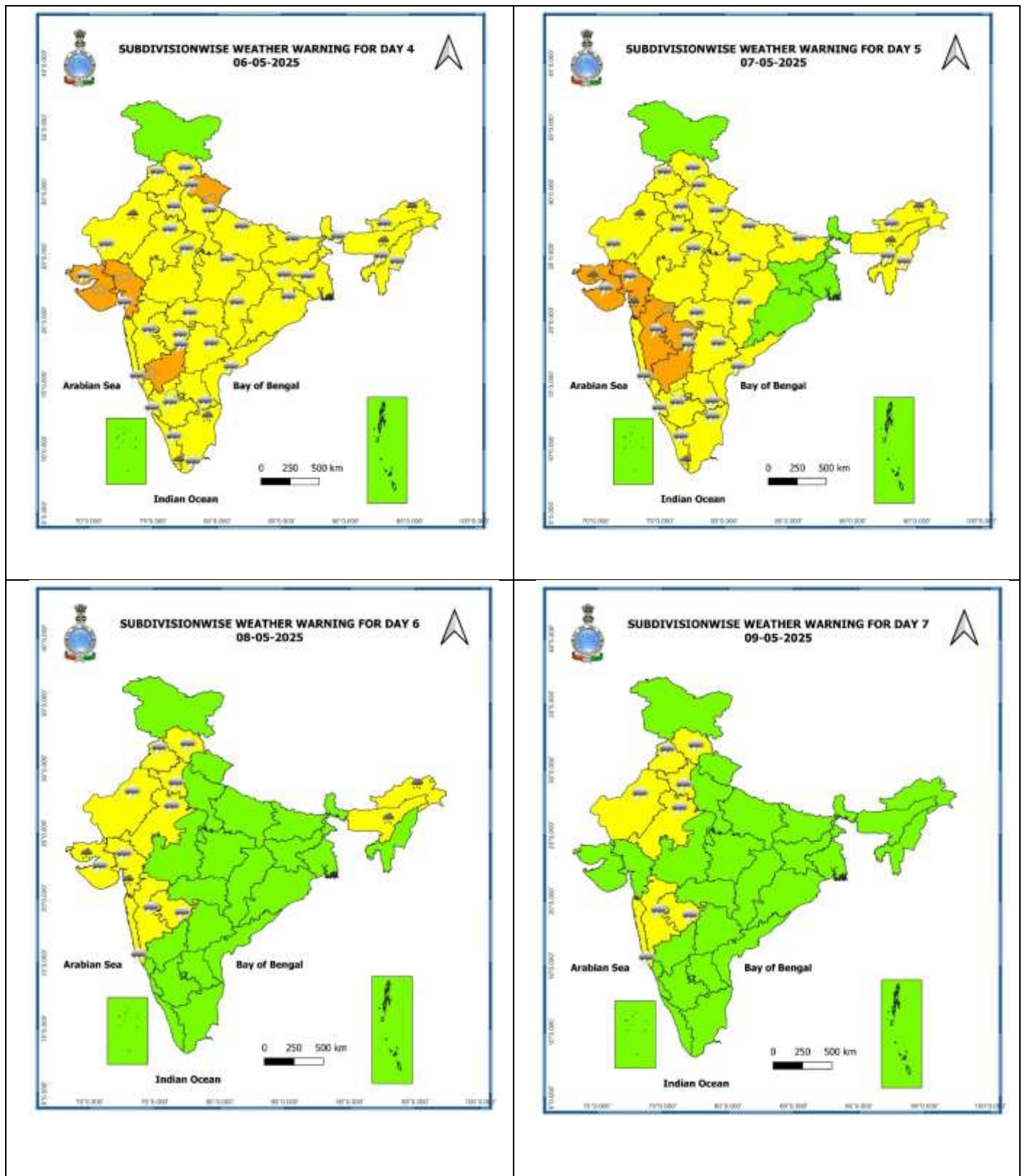
**Fig. 1: Maximum Temperatures****Fig. 2: Departure of Maximum Temperatures**

7 Days Rainfall Forecast								
S. No.	Subdivision	03-May	04-May	05-May	06-May	07-May	08-May	09-May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	FWS	SCT	WS	WS	SCT	FWS
2	ARUNACHAL PRADESH	SCT	FWS	WS	WS	WS	WS	FWS
3	ASSAM & MEGHALAYA	SCT	FWS	FWS	WS	WS	WS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	WS	FWS	FWS	FWS	SCT	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	FWS	FWS	FWS	FWS	SCT	SCT
6	GANGETIC WEST BENGAL	FWS	SCT	SCT	SCT	ISOL	ISOL	DRY
7	ODISHA	FWS	FWS	SCT	SCT	ISOL	ISOL	ISOL
8	JHARKHAND	SCT	SCT	SCT	ISOL	DRY	DRY	DRY
9	BIHAR	ISOL	SCT	SCT	ISOL	ISOL	ISOL	DRY
10	EAST UTTAR PRADESH	SCT	FWS	FWS	FWS	ISOL	DRY	DRY
11	WEST UTTAR PRADESH	SCT	FWS	FWS	FWS	SCT	ISOL	DRY
12	UTTARAKHAND	FWS	FWS	FWS	FWS	SCT	SCT	SCT
13	HARYANA CHANDIGARH & DELHI	SCT	SCT	FWS	SCT	ISOL	ISOL	ISOL
14	PUNJAB	SCT	SCT	FWS	SCT	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	FWS	FWS	FWS	SCT	SCT	SCT	SCT
16	JAMMU & KASHMIR AND LADAKH	FWS	FWS	SCT	ISOL	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	SCT	SCT	SCT	ISOL	ISOL	ISOL
21	GUJARAT REGION	ISOL	SCT	SCT	FWS	FWS	FWS	SCT
22	SAURASHTRA & KUTCH	ISOL	ISOL	SCT	FWS	FWS	FWS	SCT
23	KONKAN & GOA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	FWS	FWS	ISOL	ISOL	ISOL
29	TELANGANA	SCT	SCT	SCT	SCT	SCT	ISOL	ISOL
30	RAYALASEEMA	SCT	SCT	SCT	SCT	SCT	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	SCT	SCT	SCT	SCT	SCT	ISOL
32	COASTAL KARNATAKA	SCT	ISOL	ISOL	SCT	SCT	SCT	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	FWS	SCT	ISOL	SCT	SCT	SCT	ISOL
35	KERALA & MAHE	SCT	SCT	FWS	FWS	FWS	SCT	SCT
36	LAKSHADWEEP	FWS	SCT	SCT	SCT	SCT	SCT	SCT

- As the lead period increases forecast accuracy decreases.







- 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 03<sup>rd</sup> to 06<sup>th</sup> May 2025**

### **Past Weather:**

There has been rise in minimum temperature upto 04 - 05°C and fall in maximum temperature upto 08 - 09°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 28 to 29°C and 21 to 22°C respectively. The minimum temperature was below normal upto 02 - 04°C and maximum temperature was below normal upto 10 - 11°C over Delhi/NCR. Generally cloudy sky conditions with predominant surface wind from the southeast direction with wind speeds less than 16 kmph prevailed during the past 24 hours. Generally cloudy sky conditions with wind speed less than 08 kmph from the southeast direction prevailed over the region in the forenoon today.

### **Weather Forecast:**

**03.05.2025:** Generally cloudy sky. Very Light to light rain accompanied with thunderstorm/lighting and strong surface winds. Wind speed may increase temporarily upto 30-40 kmph during thunderstorm. The maximum temperature over Delhi is likely to be in the range of 33 to 35°C. The maximum temperature will be below normal upto 04 - 06°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 12 kmph till evening. It would increase becoming less than 20 kmph from the southeast direction during the night.

**04.05.2025:** Generally cloudy sky. Very Light to light rain accompanied with thunderstorm/lighting and strong surface winds. Wind speed may increase temporarily upto 30-40 kmph gusting to 50 kmph during thunderstorm. The maximum and minimum temperatures over Delhi are likely to be in the range of 34 to 36°C and 22 to 24°C respectively. The minimum temperature will be below normal upto 01 - 02°C and maximum temperature will be below normal upto 03 - 05°C. The predominant surface wind will likely be from the southeast direction with a wind speed of 08-10 kmph during morning hours. The wind speed will gradually increase thereafter becoming 10-14 kmph from the southeast direction during the afternoon. It will increase becoming less than 20 kmph from the southeast direction during evening and night.

**05.05.2025:** Generally cloudy sky. Very Light to light rain accompanied with thunderstorm/lighting and strong surface winds. Wind speed may increase temporarily upto 30-40 kmph during thunderstorm. The maximum and minimum temperatures over Delhi are likely to be in the range of 30 to 32°C and 22 to 24°C respectively. The minimum temperature will be below normal upto 01 - 02°C and maximum temperature will be below normal upto 07 - 09°C. The predominant surface wind will likely be from the east direction with a wind speed of 10-14 kmph during morning hours. The wind speed will gradually decrease becoming 08-12 kmph from the southeast direction in the afternoon. It will increase becoming less than 20 kmph from the southeast direction during evening and night.

**06.05.2025:** Generally cloudy sky. Very Light to light rain accompanied with thunderstorm/lighting and strong surface winds. Wind speed may increase temporarily upto 30-40 kmph during thunderstorm. The maximum and minimum temperatures over Delhi are likely to be in the range of 30 to 32°C and 24 to 26°C respectively. The minimum temperature will be near normal and maximum temperature will be below normal upto 07 - 09°C. The predominant surface wind will likely be from the southeast direction with a wind speed less than 14 kmph during morning hours. The wind speed will gradually decrease becoming 12-14 kmph from the southeast direction in the afternoon. It will increase becoming less than 20 kmph from the northeast direction during evening and night.

### **Impact expected and Action Suggested due to isolated thunderstorm with lightning/gusty:**

- Be cautious and take precautionary measures though there is likelihood of thunderstorm/lighting/dust storm accompanied with strong surface winds 30 – 40 kmph gusting to 50 kmph.
- Breaking of tree branches, uprooting of large avenue trees, Large dead limbs blown from trees, Damage to Standing crops, Minor to major damage to power and communication lines due to breaking of branches, Partial damage to vulnerable structures due to strong winds, Loose objects may fly.
- 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 isolated thunderstorm with lightning/gusty & Squally winds & Hailstorm over

- ✓ **Thundersquall (wind speed reaching 50-60 kmph)** likely over East Madhya Pradesh, Odisha on 03<sup>rd</sup> & 04<sup>th</sup>; Gangetic West Bengal, Jharkhand, Chhattisgarh, Assam & Meghalaya on 03<sup>rd</sup>; Bihar, East Uttar Pradesh on 05<sup>th</sup>, Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh on 04<sup>th</sup> & 05<sup>th</sup>; West Madhya Pradesh on 05<sup>th</sup> & 06<sup>th</sup>; South Interior Karnataka during 03<sup>rd</sup>-05<sup>th</sup>; Gujarat, North Interior Karnataka on 06<sup>th</sup> & 07<sup>th</sup> and Madhya Maharashtra & Marathwada on 07<sup>th</sup> May.
- ✓ **Isolated hailstorm** activity likely over Sikkim, Odisha, Chhattisgarh on 03<sup>rd</sup>; East Madhya Pradesh, Himachal Pradesh on 03<sup>rd</sup> & 04<sup>th</sup>, North Interior Karnataka, Gujarat state on 05<sup>th</sup> & 06<sup>th</sup>, South Interior Karnataka on 06<sup>th</sup> & 07<sup>th</sup> and Uttarakhand during 03<sup>rd</sup>-06<sup>th</sup> and Madhya Maharashtra & Marathwada on 07<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 kutcha 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.

## Agromet advisories for likely impact of Hailstorm / Heavy Rainfall / Gusty Winds / Heat wave

- In **Odisha, Kerala and Sikkim**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Sikkim, Odisha, Himachal Pradesh, East Madhya Pradesh, Chhattisgarh** and **South Interior Karnataka**, use hail nets and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- Undertake immediate harvesting of matured fruits and vegetables in **Marathwada, Interior Karnataka and Gujarat**; groundnut, onion, fruits and vegetables in **Madhya Maharashtra**.
- 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.
- 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.

## Livestock / Poultry / Fishery

- Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- 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.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

### 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. 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 महाराष्ट्र

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. आंतरिक उत्तरी कर्नाटक

34. आंतरिक 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)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)



Fog



Heavy Snow



Cold Wave



Heavy Rain



Dust Storm



Cold Day



Very Heavy Rain



Heat Wave



Ground Frost



Extremely Heavy Rain



Warm Night



Thunder & Lightning



Hot Day



Hailstorm



Hot & Humid



Dust Raising Winds



Strong Surface Winds

### 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 \*

### Heat Wave

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  $\geq 6.5^{\circ}\text{C}$

(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 62-67 kmph

Very Severe: Wind speed  $> 67$  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 Storm: 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.