



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



**Press Release**

**Date: 01<sup>st</sup> May, 2025**

**Time of Issue: 1345 hours IST**

**Subject: i) Rainfall accompanied with thunderstorms, lightning, Hailstorms, squally/gusty winds over East & central India likely to continue till 04<sup>th</sup> May, 2025.  
ii) A fresh spell of rainfall accompanied with thunderstorm/duststorm & squally/gusty winds likely over northwest India till 07<sup>th</sup> May, 2025.**

**i. Realised weather during past 24 hours till 0830 hours IST of today, the 01<sup>st</sup> May 2025 (Annexure I):**

- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 70-100 kmph prevailed at some places over West Madhya Pradesh, Rayalaseema, South Interior Karnataka and 50-60 kmph at isolated places over Chhattisgarh, Kerala & Mahe, Telangana.
- ❖ **Hailstorm** occurred at isolated places over East Uttar Pradesh, Chhattisgarh, Bihar.
- ❖ **Heavy rainfall** recorded at isolated places over South Interior Karnataka.
- ❖ **Heat wave conditions** prevailed in isolated pockets of West Rajasthan.
- ❖ **Duststorm** occurred at isolated places over West Madhya Pradesh.

**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](#).

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

- ❖ An upper air cyclonic circulation lies over southwest Rajasthan in lower tropospheric levels.
- ❖ A cyclonic circulation lies over southeast Rajasthan and a trough from this cyclonic circulation to north Kerala in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over north Bangladesh in lower & middle 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 03<sup>rd</sup> May; Madhya Pradesh, Vidarbha, Chhattisgarh till 05<sup>th</sup> May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over East Madhya Pradesh, Chhattisgarh during 02<sup>nd</sup> -04<sup>th</sup>; Vidarbha on 03<sup>rd</sup> & 04<sup>th</sup>, Odisha on 02<sup>rd</sup> & 03<sup>rd</sup> May.
- ✓ **Isolated hailstorm** activity likely over Sikkim on 01<sup>st</sup> & 03<sup>rd</sup>; Bihar on 01<sup>st</sup>; Odisha, East Madhya Pradesh on 02<sup>nd</sup> & 03<sup>rd</sup>; Chhattisgarh during 01<sup>st</sup> -03<sup>rd</sup> May.
- ✓ **Isolated heavy rainfall** over Odisha on 02<sup>rd</sup> & 03<sup>rd</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 and Uttarakhand during 01<sup>st</sup> May to 06<sup>th</sup> May.
- ✓ **Isolated hailstorm** very likely over Uttarakhand on 01<sup>st</sup> & 03<sup>rd</sup> May and **thundersquall** wind speed reaching 50-60 kmph on 03<sup>rd</sup> May.
- ✓ Isolated to scattered rainfall with **thunderstorm, lightning & strong winds speed reaching 40-60 kmph** likely over Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Rajasthan during 01<sup>st</sup> May to 06<sup>th</sup> May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Rajasthan on 01<sup>st</sup> & 02<sup>nd</sup> May.
- ✓ **Isolated hailstorm** activity likely over East Uttar Pradesh on 01<sup>st</sup> May.
- ✓ **Duststorm** very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi on 01<sup>st</sup> & 02<sup>nd</sup> May; Rajasthan during 01<sup>st</sup>-05<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 with **thundersquall (wind speed reaching 50-60 kmph)** likely over South Interior Karnataka on 01<sup>st</sup> May.
- ✓ **Isolated heavy rainfall** over South Interior Karnataka, Kerala & Mahe on 01<sup>st</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 Meghalaya on 01<sup>st</sup>; Arunachal Pradesh, Assam & Meghalaya on 05<sup>th</sup> May.

#### Temperature Forecast:

- ❖ No significant change in maximum temperatures likely over Northwest India during next 24 hours and fall by 3-5°C for subsequent 6 days.
- ❖ No significant change in maximum temperatures likely over Central & West India during next 2 days and fall by 2-4°C for subsequent 5 days.
- ❖ No significant change in maximum temperatures likely over East India during next 4 days and rise by 2-4°C for subsequent 5 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

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

- ❖ **Heat wave conditions** very likely in isolated pockets of Jammu & Kashmir and southwest Rajasthan on 01<sup>st</sup> May.
- ❖ **Hot & humid weather** is likely to prevail over Marathawada, Madhya Maharashtra, Gujarat State on 01<sup>st</sup>; Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema on 01<sup>st</sup> & 02<sup>nd</sup> May.

#### iv. Weather conditions and forecast over Delhi/NCR during 01<sup>st</sup> May to 04<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>

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

- ❖ **Light/moderate Rainfall with thunderstorm & lightning** observed at many places over West Bengal & Sikkim; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka; at isolated places over Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Tamilnadu Puducherry & Karaikal, Telangana, South Interior Karnataka.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 60-90 kmph prevailed at isolated places over West Madhya Pradesh, Rayalaseema, South Interior Karnataka and 30-60 kmph over Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, West Bengal & Sikkim, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka.

**Rainfall recorded (in cm):**

- ❖ **South Interior Karnataka:** Krishnarajpet (dist Mandya) 10; T G Halli HMS (dist Bengaluru Urban), Hiriyur HMS (dist Chitradurga) 5 Each;
- ❖ **Odisha:** Malkangiri (dist Malkangiri) 2, Kesinga (dist Kalahandi) 2, Bhawanipatna (dist Kalahandi) 2,
- ❖ **Assam & Meghalaya:** Nongstein (dist West Khasi Hills) 3, Ampati (dist South West Garo Hills) 3;
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** Champai\_Aws (dist Champhai) 2,

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

- ❖ **Gangetic West Bengal:** Alipore (16 kt)AWS: Dum Dum (27 kt); Berhampore (25 kt); Amta, Barrackpore (23 kt); Raidighi, Diamond Harbour, Kalyani (20 kt); Asansol, Durgapur (19 kt); Canning (18 kt); Sonarpur (17 kt); Digba (16 kt);
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Kalimpong (18 kt), Dinhata (17 kt);
- ❖ **Jharkhand:** Jamtara, Pakur (19 kt);
- ❖ **Bihar:** Patna (21 kt);
- ❖ **Himachal Pradesh:** Bajaura: 24, Seobagh: 24, Reckon Peo: 23;
- ❖ **Uttarakhand:** Pantnagar (AWS)-19, Jollygrant (AMS)-18;
- ❖ **Punjab:** Mohali 39 Kmph;
- ❖ **East Uttar Pradesh:** Gorakhpur(Iaf)-11g21kt;
- ❖ **West Madhya Pradesh:** shajapur-72 kmph;
- ❖ **East Madhya Pradesh:** anupppur -44 kmph;
- ❖ **Vidarbha:** yavatmal - 44 kmph;
- ❖ **Chhattisgarh:** sukma -53kmph;
- ❖ **Assam & Meghalaya:** Shillong=16,Ampati=20 Nongstoin\_Kvk=17,Diphu\_Amfu=18 Gossaigaon\_Amfu=18, Chandubi=18, Chirang=18, Down\_Town\_University=17;
- ❖ **Arunachal Pradesh:** Passighat=19;
- ❖ **Nagaland,Manipur,Mizoram&Tripura:** Malnom=18, Porompat=17, Imphal\_Amfu=17, Saikul=17

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

- ❖ Yesterday, Maximum Temperatures are in the range of 42-46 °C west and southeast Rajasthan, Gujarat region & Saurashtra, West Madhya Pradesh, Vidarbha, Marathwada adjoining Madhya Maharashtra, Northwest Telangana and 38-42 Deg C over Kutch, south Punjab, south Haryana, remaining Madhya Pradesh adjoining south Uttar Pradesh, south Chhattisgarh, interior Odisha, remaining Telangana and south Andhra Pradesh. **Yesterday, the highest maximum temperature of 46.3°C was reported at Jaisalmer (West Rajasthan) over the country.**
- ❖ Yesterday, the maximum temperatures have risen by 4-6 °C over North Bihar by 1-3 °C over Kashmir, Sub-Himalayan West Bengal, North Chhattisgarh, interior Odisha, Madhya Pradesh, Telangana, south coastal Andhra Pradesh, Rayalaseema, north interior Karnataka, south Gujarat region, Saurashtra and fallen by 2-4 °C over Jammu, south Himachal Pradesh, Punjab, Haryana, Delhi adjoining west Uttar Pradesh and extreme northeast Rajasthan and northwest Madhya Pradesh.
- ❖ Yesterday, Maximum Temperature Departures (as on 28-04-2025): Maximum Temperatures were markedly above normal (5.1°C or more) at a few places
- ❖ markedly above normal (5.1°C or more) at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan; above normal (1.6°C to 3.0°C) at isolated places over East Rajasthan, Gujarat state, West Madhya Pradesh, Konkan & Goa, Marathwada, Vidarbha, Assam & Meghalaya, Arunachal Pradesh. These were markedly below normal (-5.1 or below) at isolated places over Odisha, Chhattisgarh; appreciably below normal (-3.1°C to -5.0°C) at a few places over Gangetic West Bengal, East Uttar Pradesh; at isolated places over Bihar; below normal (-1.6°C to -3.0°C) at a few places over Jharkhand; at isolated places over Uttarakhand, Haryana, West Uttar Pradesh, Coastal Andhra Pradesh & Yanam Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands and normal over rest parts of the country. (Fig. 2).

Fig. 1: Maximum Temperatures

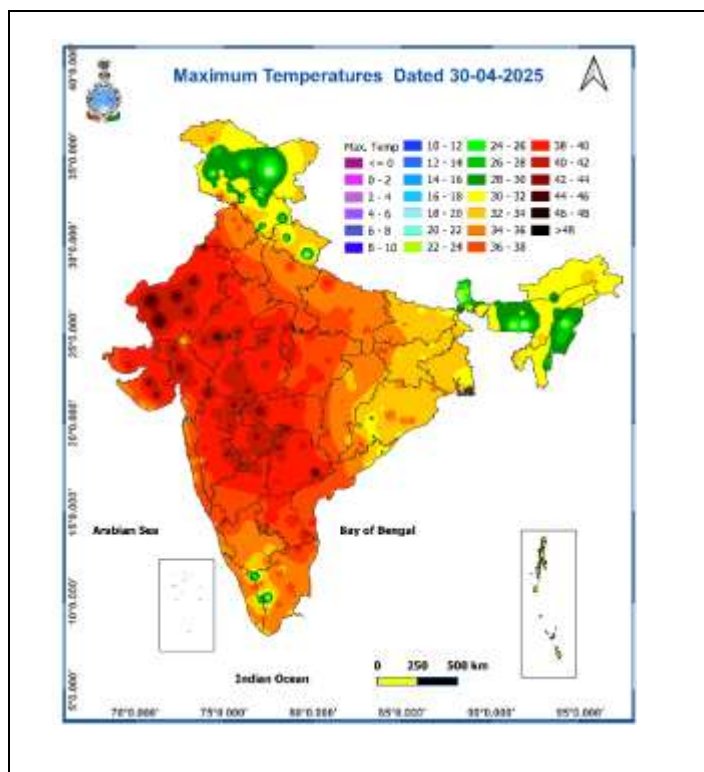
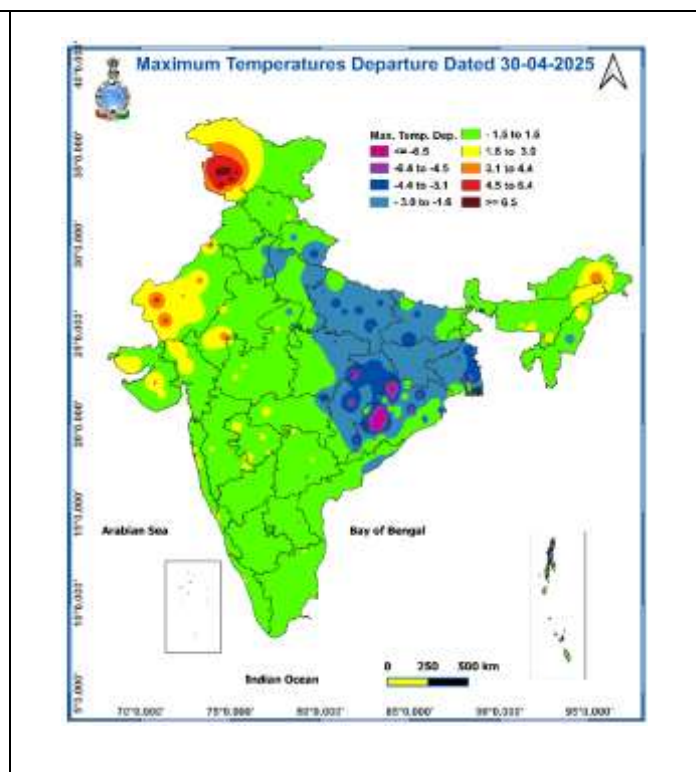
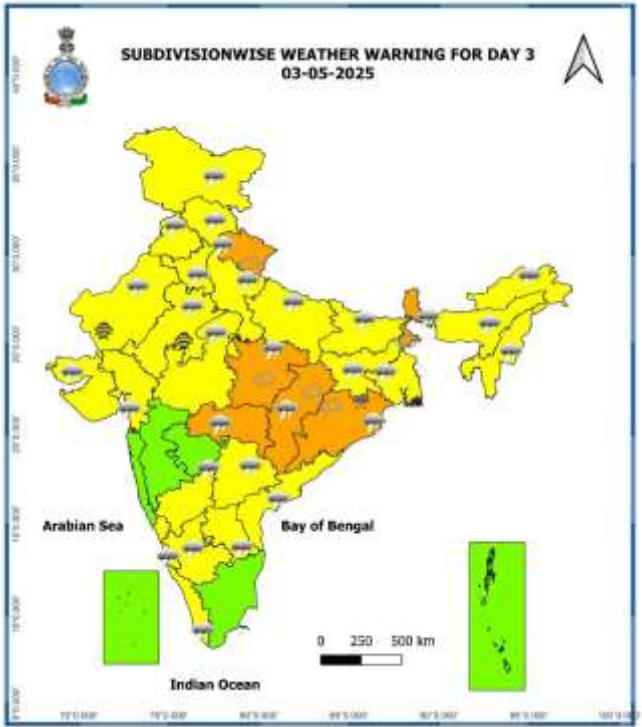
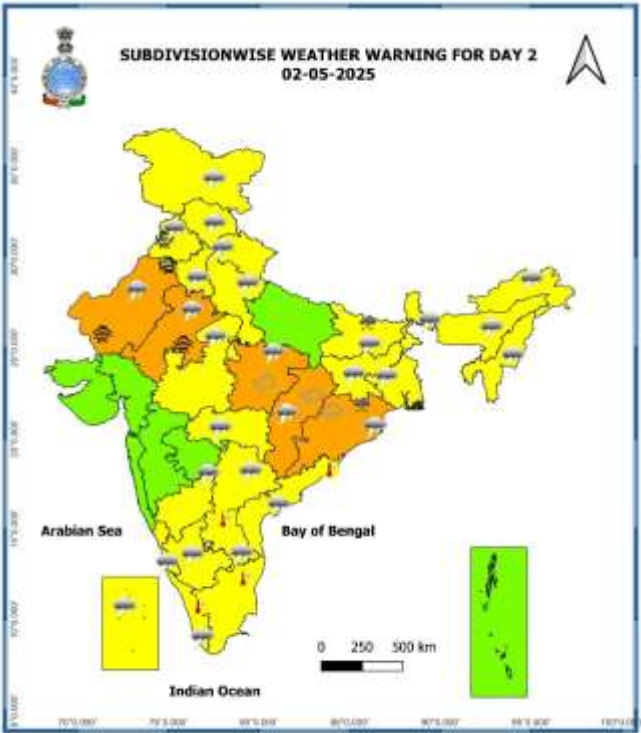
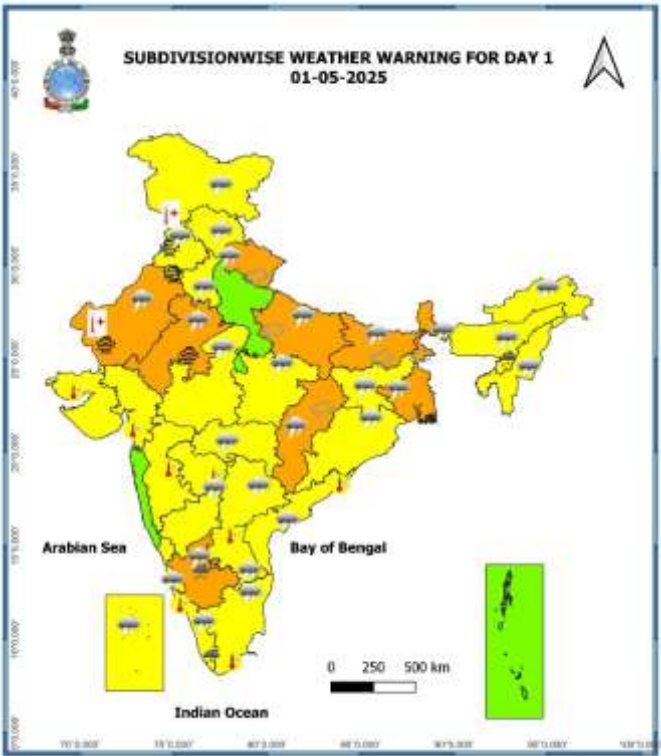


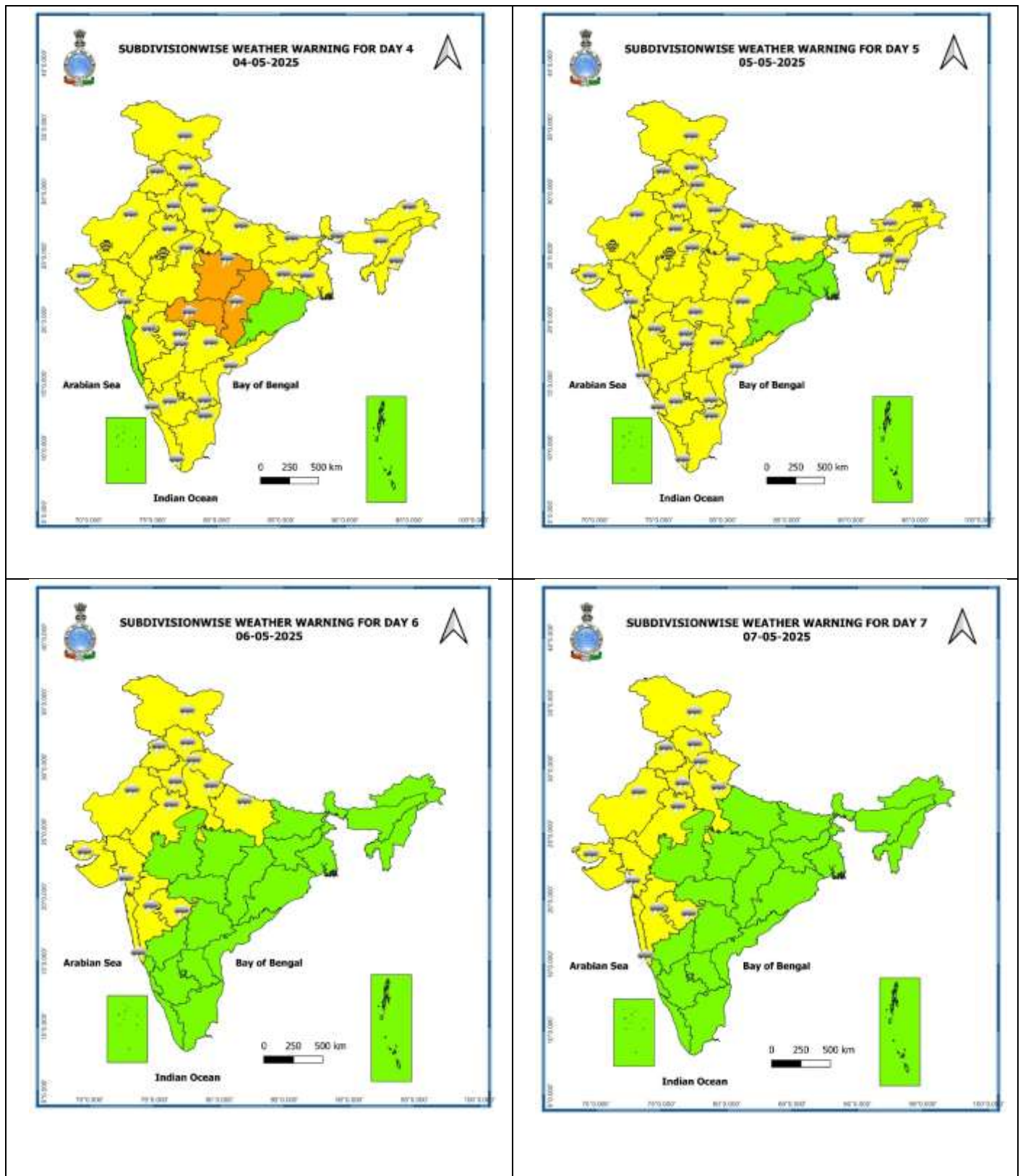
Fig. 2: Departure of Maximum Temperatures



7 Days Rainfall Forecast								
S. No.	Subdivision	01-May	02-May	03-May	04-May	05-May	06-May	07-May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	FWS	FWS	FWS	WS	FWS
2	ARUNACHAL PRADESH	SCT	SCT	SCT	SCT	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	FWS	SCT	SCT	FWS	FWS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	SCT	SCT	SCT	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	SCT	FWS	FWS	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	FWS	ISOL	FWS	SCT	ISOL	ISOL	ISOL
7	ODISHA	SCT	SCT	FWS	SCT	ISOL	ISOL	ISOL
8	JHARKHAND	SCT	SCT	SCT	SCT	SCT	ISOL	ISOL
9	BIHAR	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	ISOL	ISOL	ISOL	SCT	SCT	SCT	ISOL
11	WEST UTTAR PRADESH	ISOL	ISOL	SCT	SCT	SCT	SCT	ISOL
12	UTTARAKHAND	SCT	SCT	FWS	FWS	FWS	FWS	FWS
13	HARYANA CHANDIGARH & DELHI	SCT	ISOL	SCT	SCT	SCT	ISOL	SCT
14	PUNJAB	SCT	ISOL	SCT	SCT	SCT	ISOL	SCT
15	HIMACHAL PRADESH	ISOL	SCT	SCT	SCT	FWS	FWS	SCT
16	JAMMU & KASHMIR AND LADAKH	SCT	SCT	SCT	SCT	SCT	ISOL	DRY
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
21	GUJARAT REGION	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
27	CHHATTISGARH	ISOL	SCT	SCT	SCT	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	SCT	SCT	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	SCT	ISOL	ISOL	SCT	SCT	SCT
30	RAYALASEEMA	ISOL	ISOL	SCT	ISOL	ISOL	SCT	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	SCT	SCT	SCT	SCT	SCT
35	KERALA & MAHE	SCT	SCT	SCT	SCT	FWS	FWS	FWS
36	LAKSHADWEEP	SCT	SCT	SCT	DRY	DRY	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 01<sup>st</sup> to 04<sup>th</sup> May 2025**

### **Past Weather:**

There has been rise in minimum temperature upto 01°C and rise in maximum temperature upto 01°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 37 to 38°C and 25 to 27°C respectively. The minimum temperature was above normal upto 01°C and maximum temperature was below normal upto 02 - 04°C over Delhi/NCR. Mainly clear sky conditions with predominant surface wind from the southeast direction with wind speeds less than 20 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 12 kmph from the southeast direction prevailed over the region in the forenoon today.

### **Weather Forecast:**

**01.05.2025:** Mainly clear sky becoming partly cloudy sky towards afternoon/evening. Thunderstorm/lightning/dust storm accompanied with strong surface winds 30 – 40 kmph gusting to 50 kmph towards afternoon/evening. The maximum temperature over Delhi is likely to be in the range of 36 to 38°C. The maximum temperature will be below normal upto 02 - 03°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 16 kmph till evening. It would increase becoming less than 20 kmph from the east direction during the night.

**02.05.2025:** Mainly clear sky becoming partly cloudy sky towards afternoon/evening. Thunderstorm/lightning/dust storm accompanied with strong surface winds 30 – 40 kmph gusting to 50 kmph towards afternoon/evening. The maximum and minimum temperatures over Delhi are likely to be in the range of 36 to 38°C and 26 to 28°C respectively. The minimum temperature will be above normal upto 01 - 03°C and maximum temperature will be below normal upto 01 - 03°C. The predominant surface wind will likely be from the southeast direction with a wind speed of 14-18 kmph during morning hours. The wind speed will gradually decrease thereafter becoming 08-10 kmph from the east direction during the afternoon. It will increase becoming less than 20 kmph from the southeast direction during evening and night.

**03.05.2025:** Partly cloudy sky. Strong surface winds 30 – 40 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 37 to 39°C and 26 to 28°C respectively. The minimum temperature will be above normal upto 01 - 03°C and maximum temperature will be below normal upto 01 - 03°C. The predominant surface wind will likely be from the east direction with a wind speed of 20-25 kmph during morning hours. The wind speed will gradually decrease becoming 10-15 kmph from the southeast direction in the afternoon. It will increase becoming less than 20 kmph from the southeast direction during evening and night.

**04.05.2025:** Generally cloudy sky. Very light rain/drizzle. Thunderstorm/lightning accompanied with gusty winds speed 30 – 40 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 36 to 38°C and 25 to 27°C respectively. The minimum temperature will be above normal upto 01 - 02°C and maximum temperature will be below normal upto 01 - 03°C. The predominant surface wind will likely be from the southeast direction with a wind speed less than 16 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 16 kmph from the southeast 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/lightning/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 South Interior Karnataka on 01<sup>st</sup>; Rajasthan on 01<sup>st</sup> & 02<sup>nd</sup>; Odisha on 02<sup>rd</sup> & 03<sup>rd</sup>; East Madhya Pradesh, Chhattisgarh during 02<sup>nd</sup> -04<sup>th</sup>; Vidarbha on 03<sup>rd</sup> & 04<sup>th</sup> May.
- ❖ **Isolated hailstorm** activity likely over Sikkim on 01<sup>st</sup> & 03<sup>rd</sup>; Bihar, East Uttar Pradesh on 01<sup>st</sup>; Odisha, East Madhya Pradesh on 02<sup>nd</sup> & 03<sup>rd</sup>; Chhattisgarh during 01<sup>st</sup> -03<sup>rd</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.

## **Impact expected and action suggested due to Heat wave conditions over**

- ❖ **Heat wave to severe heat wave conditions** very likely in isolated pockets of Jammu division, southwest Rajasthan on 01<sup>st</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 Hailstorm / Heavy Rainfall / Gusty Winds / Heat wave**

- In **Odisha, Kerala and South Interior Karnataka**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Sub Himalayan West Bengal and Sikkim, Odisha, Bihar, Uttarakhand, East Uttar Pradesh, Chhattisgarh and East Madhya Pradesh**, use hail nets and hail caps to prevent mechanical damage in vegetables and orchards due to the possibility of hailstorms.
- 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**

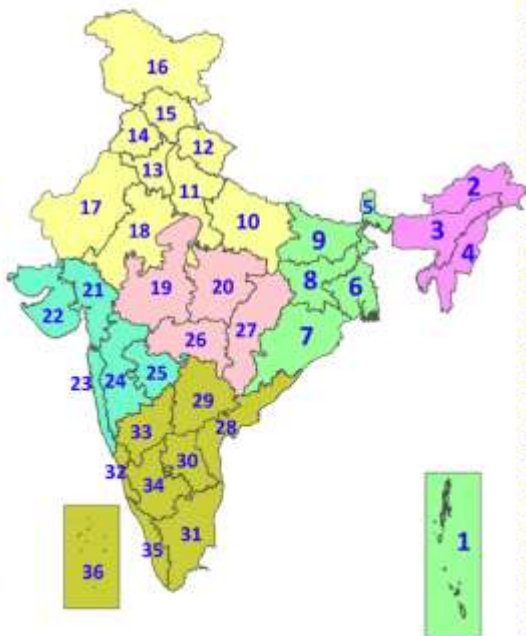
- Keep the animals inside the shed during heavy rainfall / hailstorm and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also, provide clean, hygienic and plenty 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

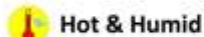
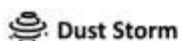
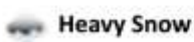
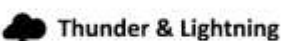
1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. 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)



### 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.