



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



**Press Release**

**Date: 04<sup>th</sup> May, 2025**

**Time of Issue: 1345 hours IST**

**Subject: i) Heavy to very heavy Rainfall accompanied with thunderstorm, lightning & squally/gusty winds likely over Gujarat state and southwest Rajasthan during 04<sup>th</sup>-08<sup>th</sup> May.**

**ii) Rainfall accompanied with thunderstorms, lightning, Hailstorms, squally/gusty winds likely to continue over Northwest India during next 4-5 days.**

**iii) A heavy spell of rainfall accompanied with thunderstorm & lightning likely over Uttarakhand region on 06<sup>th</sup> & 07<sup>th</sup> May, 2025.**

**iv) current spell of rainfall and thunderstorm activities over eastcentral and eastern parts of India including Odisha, Gangetic West Bengal likely to reduce from 7<sup>th</sup> May, 2025.**

**Realised weather during past 24 hours till 0830 hours IST of today, the 04<sup>th</sup> May 2025 (Annexure I):**

- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 70-100 kmph prevailed at some places over East Rajasthan, Central India, Odisha, Jharkhand; with speed 40-70 kmph prevailed at isolated places over Gujarat Region, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh, West Rajasthan, Gangetic West Bengal, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Tripura, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Telangana.
- ❖ **Hailstorm** occurred at isolated places over Uttarakhand, West Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh.
- ❖ **Heavy rainfall** recorded at isolated places over Odisha and Meghalaya.

**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 lies over north Pakistan and adjoining Punjab and northwest Rajasthan in lower to upper tropospheric levels.
- ❖ An upper air cyclonic circulation lies over central parts of south Uttar Pradesh and a trough runs from this cyclonic circulation to south Tamil Nadu in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies over northern parts of Gangetic West Bengal and a trough runs from this cyclonic circulation to north coastal Andhra Pradesh in lower tropospheric levels.
- ❖ A cyclonic circulation lies over northeast Arabian sea and adjoining coastal areas of Gujarat in lower tropospheric levels.
- ❖ An upper air cyclonic circulation lies 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 06<sup>th</sup>; Madhya Pradesh, Vidarbha, Chhattisgarh till 08<sup>th</sup> May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Madhya Pradesh on 04<sup>th</sup> & 05<sup>th</sup>; Vidarbha on 05<sup>th</sup> & 06<sup>th</sup>; Chhattisgarh, Odisha on 05<sup>th</sup>; West Bengal & Sikkim on 04<sup>th</sup>; Bihar on 04<sup>th</sup> & 05<sup>th</sup> May.
- ✓ **Isolated hailstorm** activity likely over West Madhya Pradesh on 04<sup>th</sup>; East Madhya Pradesh on 04<sup>th</sup> & 05<sup>th</sup>; Vidarbha, Chhattisgarh, Odisha on 05<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** likely over Odisha on 04<sup>th</sup> & 05<sup>th</sup> May and Nicobar islands during 05-08<sup>th</sup> May 2025.

#### 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 04<sup>th</sup>-10<sup>th</sup> May.
- ✓ **Isolated hailstorm** very likely over Uttarakhand during 04<sup>th</sup>-06<sup>th</sup> May; Haryana on 04<sup>th</sup> May.
- ✓ **Thundersquall (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Uttarakhand on 06<sup>th</sup> & 07<sup>th</sup>; Punjab, Haryana Chandigarh, Uttar Pradesh on 04<sup>th</sup> & 05<sup>th</sup>; West Rajasthan during 04<sup>th</sup>-07<sup>th</sup> May.
- ✓ **Duststorm** very likely at isolated places over East Rajasthan on 04<sup>th</sup> & 05<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** likely over West Rajasthan on 04<sup>th</sup> and during 06<sup>th</sup>-08<sup>th</sup>; south Haryana on 04<sup>th</sup>; Uttarakhand during 06<sup>th</sup>-07<sup>th</sup>; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 08<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 Telangana on 04<sup>th</sup> May.
- ✓ **Thundersquall** wind speed reaching 50-60 kmph likely over Coastal Andhra Pradesh & Yanam on 04<sup>th</sup> & 05<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** over Tamil Nadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam during 04<sup>th</sup>-06<sup>th</sup>; Kerala & Mahe on 07<sup>th</sup> & 08<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 during 05<sup>th</sup>-08<sup>th</sup>; Arunachal Pradesh during 05<sup>th</sup>-07<sup>th</sup> May.

#### West India:

- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Gujarat, Konkan & Goa, Madhya Maharashtra and Marathawada during 04<sup>th</sup>-08<sup>th</sup> May.
- ✓ **Isolated hailstorm** activity very likely over Gujarat state on 04<sup>th</sup> & 05<sup>th</sup>; Madhya Maharashtra on 06<sup>th</sup> & 07<sup>th</sup> & Marathawada on 07<sup>th</sup> May.
- ✓ **Thundersquall** wind speed reaching 50-60 kmph gusting to 70 kmph likely over Madhya Maharashtra on 06<sup>th</sup> & 07<sup>th</sup>; Marathawada on 07<sup>th</sup>; Gujarat state during 04<sup>th</sup>-08<sup>th</sup> May.
- ✓ **Isolated heavy rainfall** likely over Gujarat state during 04<sup>th</sup>-08<sup>th</sup> May with **very heavy rainfall** on 07<sup>th</sup> & 08<sup>th</sup> May.

#### **Temperature Forecast:**

- ❖ No significant change in maximum temperatures likely over Northwest India & Central India during next 4 days and rise by 2-3°C thereafter for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over West India during next 3 days and rise by 3-5°C thereafter for subsequent 4 days.
- ❖ Gradual fall in maximum temperature likely over West India by 3-5°C during next 7 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 Tamil Nadu Puducherry & Karaikal on 04<sup>th</sup> and Kerala & Mahe 04<sup>th</sup> & 05<sup>th</sup> May.

#### **iv. Weather conditions and forecast over Delhi/NCR during 04<sup>th</sup> May to 07<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 most places over Odisha; at many places over Chhattisgarh, Andaman & Nicobar Islands, Jharkhand; at a few places over Vidarbha, Gangetic West Bengal, Northeast India, Coastal Andhra Pradesh & Yanam; at isolated places over Gujarat State, Punjab, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Karnataka, Rayalaseema, Telangana.

**Rainfall recorded (in cm):**

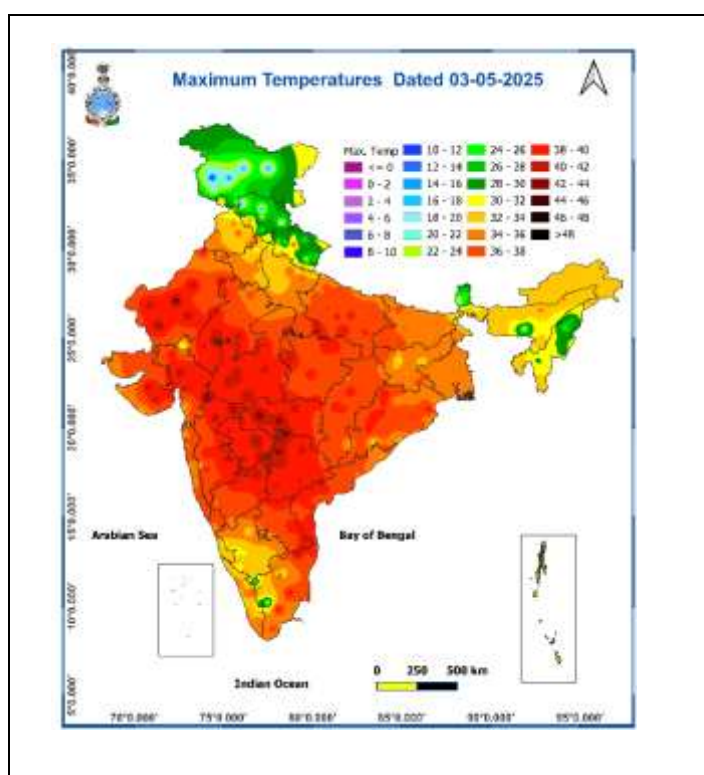
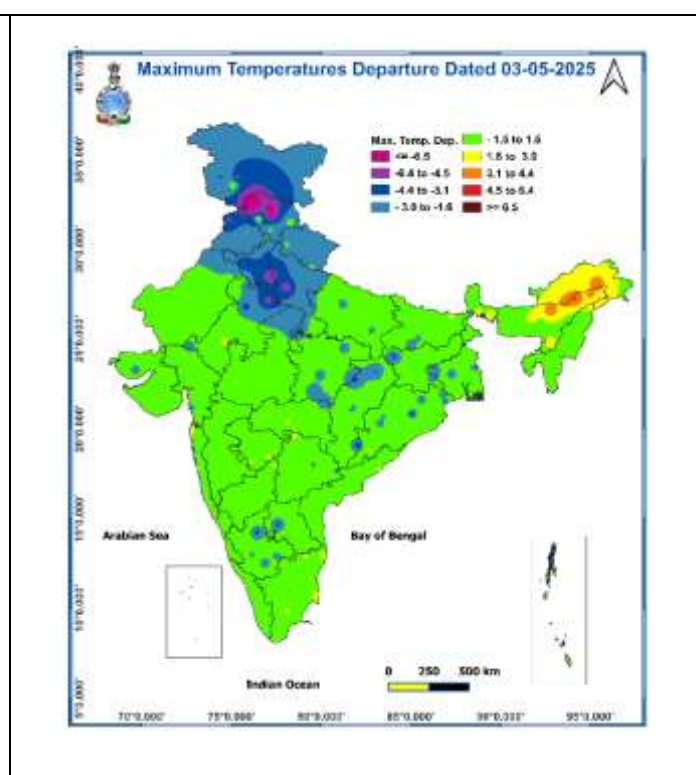
- ❖ **Assam & Meghalaya:** Tura AWS (dist West Garo Hills) 8;
- ❖ **Odisha:** Udala (dist Mayurbhanj) 8; Bhuban (dist Dhenkanal), Tihidi (dist Bhadrak), Kaptipada (dist Mayurbhanj) 7 Each; Kalampur (dist Kalahandi), Basudevpur (dist Bhadrak) 6 Each; Deogarh (dist Deogarh), Tensa (dist Sundargarh), Sonapur (dist Sonapur), Kotagarh (dist Kandhamal), Kamakhyanagar (dist Dhenkanal), Danagadi (dist Jajpur), Lathikata (dist Sundargarh), Ghasipura (dist Keonjhar), Raruana (dist Mayurbhanj) 5 Each;
- ❖ **Jharkhand:** Putki Dvc (dist Dhanbad) 6; Bokaro Thermal (dist Bokaro) 5;
- ❖ **Bihar:** Ramnagar (dist West Champaran) 6;
- ❖ **West Rajasthan:** Shergarh (dist Jodhpur) 6; Vidarbha: Gadchiroli (dist Gadchiroli) 6.
- ❖ **Gangetic West Bengal:** Digha (dist East Midnapore) 5;

**Realised Gusty Winds during past 24hours ending at 0300 UTC of today i.e 04.05.2025 (AWS Data, KT:IST):**

- ❖ **Chhattisgarh:** Rajnandgaon (42,16:15; 33, 1540-1541), Balod (43,16:30), Bilaspur (42,16:30), Mungeli (38,1530), Koriya (38,1500), Kanker (38,1730)
- ❖ **Odisha :** Bhubaneswar (40, 2110-2111), Jagatsinghpur (38,2200), Khorda (37,2115), Cuttack (35,2115),
- ❖ **Jharkhand:** Simdega (43, 1630), Khunti (39,1500)
- ❖ **Bihar:** Aurangabad(33,1430)
- ❖ **Vidarbha:** Gondia (32,1430)
- ❖ **Telanagana:** Anga\_Reddy(38,1830)
- ❖ **Madhya Pradesh:** Ashoknagar (47,1400), Sagar (39,1615), Sehore (32,1900), Narsinghpur (37,1815), Seoni (38,1300)
- ❖ **Rajasthan:** Ajmer (41,0530), Jaisalmer (36,0045), Nagaur (35,0500), Jaipur (37,1600), Alwar (37,1800), Sikar (32,1700), Karauli(31,1830)
- ❖ **Uttarakhand:** Chamoli (35,1300)

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

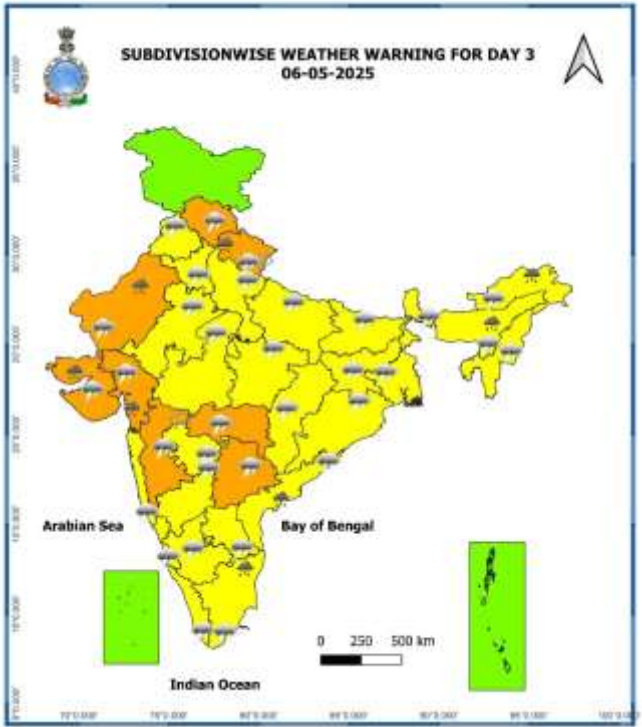
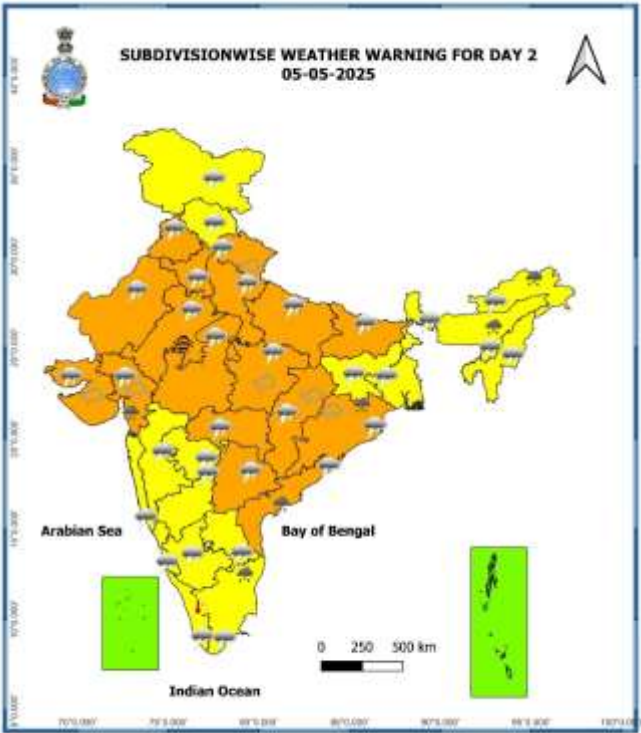
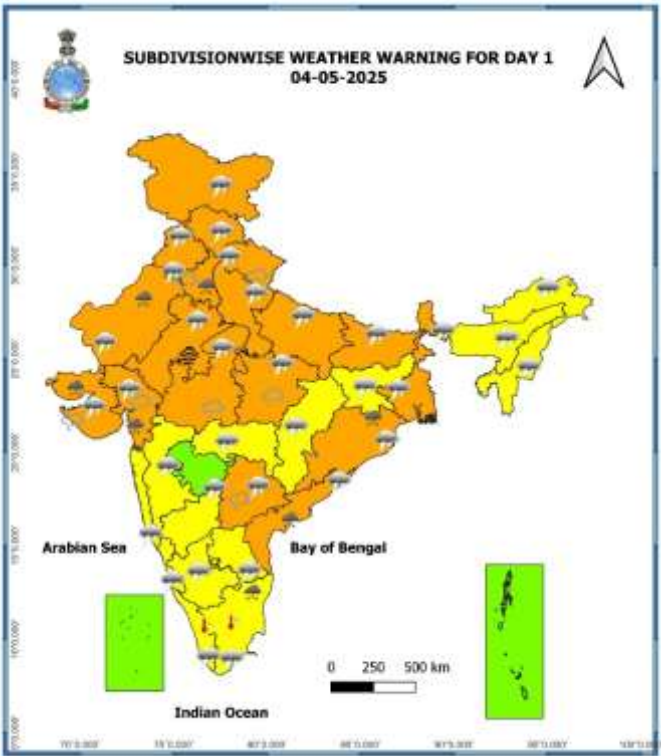
- ❖ Yesterday, Maximum Temperatures were in the **range of 42-44°C** at isolated places over Vidarbha, Telangana, Rajasthan, West Madhya Pradesh, Marathwada, north Madhya Maharashtra, Gujarat state; **38-42°C** at isolated places over Coastal Andhra Pradesh & Yanam and adjoining Rayalaseema. Yesterday, the **highest maximum temperature of 44.3°C was reported at Akola (Vidarbha)** over the country.
- ❖ Yesterday, Maximum Temperatures were **appreciably above normal (3.1°C to -5.0°C)** at Isolated places over Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka **above normal (1.6°C to 3.0°C)** at Many places over Gujarat Region, Konkan & Goa, Madhya Maharashtra and Lakshadweep; at Most places over Marathwada; at Few places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim and Coastal Karnataka; at Isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha, West Madhya Pradesh, Vidarbha and Kerala & Mahe. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Jammu-Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, Gangetic West Bengal, Chhattisgarh, Odisha; **below normal (-1.6°C to -3.0°C)** at isolated places over Saurashtra & Kutch, Uttar Pradesh East Madhya Pradesh and normal over rest parts of the country. (Fig. 2).

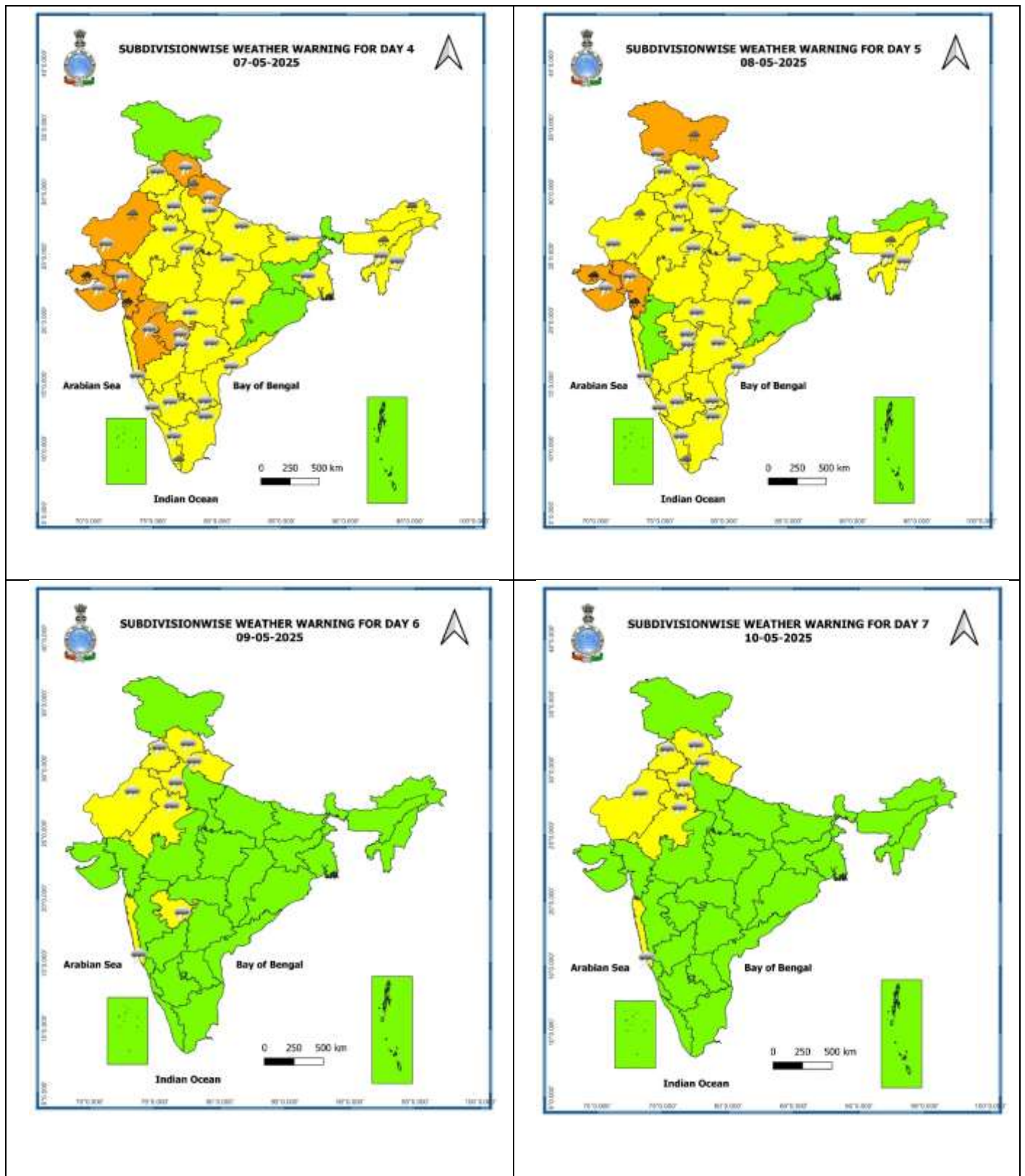
**Fig. 1: Maximum Temperatures****Fig. 2: Departure of Maximum Temperatures**

7 Days Rainfall Forecast								
S. No.	Subdivision	04-May	05-May	06-May	07-May	08-May	09-May	10-May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	SCT	WS	WS	SCT	FWS	FWS
2	ARUNACHAL PRADESH	FWS	SCT	FWS	WS	FWS	SCT	SCT
3	ASSAM & MEGHALAYA	FWS	FWS	WS	WS	WS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	FWS	FWS	FWS	SCT	SCT	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	FWS	FWS	FWS	SCT	SCT	SCT
6	GANGETIC WEST BENGAL	SCT	SCT	SCT	ISOL	ISOL	DRY	DRY
7	ODISHA	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	SCT	SCT	ISOL	DRY	DRY	DRY	DRY
9	BIHAR	SCT	SCT	ISOL	ISOL	ISOL	DRY	DRY
10	EAST UTTAR PRADESH	SCT	FWS	SCT	ISOL	DRY	ISOL	DRY
11	WEST UTTAR PRADESH	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
12	UTTARAKHAND	FWS	FWS	FWS	SCT	SCT	SCT	SCT
13	HARYANA CHANDIGARH & DELHI	FWS	FWS	ISOL	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	FWS	FWS	ISOL	ISOL	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	FWS	SCT	FWS	FWS	SCT	SCT	SCT
16	JAMMU & KASHMIR AND LADAKH	FWS	SCT	ISOL	ISOL	ISOL	ISOL	SCT
17	WEST RAJASTHAN	FWS	FWS	SCT	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJARAT REGION	FWS	FWS	WS	WS	WS	FWS	SCT
22	SAURASHTRA & KUTCH	FWS	FWS	WS	WS	WS	FWS	SCT
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	SCT	FWS	SCT	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	FWS	FWS	SCT	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	FWS	FWS	FWS	SCT	ISOL	ISOL	ISOL
29	TELANGANA	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
35	KERALA & MAHE	SCT	SCT	SCT	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	SCT	DRY	DRY	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 04<sup>th</sup> to 07<sup>th</sup> May 2025**

### **Past Weather:**

There has been rise in minimum temperature upto 02°C and rise in maximum temperature upto 05 - 06°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 33 to 35°C and 22 to 24°C respectively. The minimum temperature was below normal upto 01 -02°C and maximum temperature was below normal upto 04 - 06°C over Delhi/NCR. Partly cloudy sky conditions with predominant surface wind from the southeast direction with wind speeds less than 18 kmph prevailed during the past 24 hours. Generally cloudy sky conditions with wind speed less than 14 kmph from the southwest direction prevailed over the region in the forenoon today.

### **Weather Forecast:**

**04.05.2025:** Generally cloudy sky. Light rain accompanied with thunderstorm/lightning and strong surface winds. Wind speed may increase temporarily upto 40-50 kmph gusting to 60 kmph during thunderstorm. The maximum temperature over Delhi is likely to be in the range of 35 to 37°C. The maximum temperature will be below normal upto 02 - 04°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 14 kmph till evening. It would increase becoming less than 20 kmph from the southeast direction during the night.

**05.05.2025:** Generally cloudy sky. Light rain accompanied with thunderstorm/lightning 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 33 to 35°C and 24 to 26°C respectively. The minimum temperature will be near normal and 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 16-20 kmph during morning hours. The wind speed will gradually decrease 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.

**06.05.2025:** Generally cloudy sky. Very Light to light rain accompanied with thunderstorm/lightning 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 33 to 35°C and 24 to 26°C respectively. The minimum temperature will be near normal and maximum temperature will be below normal upto 04 - 06°C. The predominant surface wind will likely be from the southwest direction with a wind speed of 10-14 kmph during morning hours. The wind speed will gradually decrease becoming 08-12 kmph from the southwest direction in the afternoon. It will increase becoming less than 16 kmph from the southeast direction during evening and night.

**07.05.2025:** Partly cloudy sky. Very Light rain/drizzle. Sustained surface winds (speed 15 – 25 kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 34 to 36°C and 24 to 26°C respectively. The minimum temperature will be near normal 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 less than 12 kmph during morning hours. The wind speed will gradually decrease becoming 12-14 kmph from the southwest direction in the afternoon. It will increase becoming less than 15 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/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 gusting to 70 kmph)** likely over Madhya Pradesh, Bihar, Punjab, Haryana Chandigarh, Uttar Pradesh, Coastal Andhra Pradesh & Yanam on 04<sup>th</sup> & 05<sup>th</sup>; Vidarbha on 05<sup>th</sup> & 06<sup>th</sup>; Chhattisgarh, Odisha on 05<sup>th</sup>; West Bengal & Sikkim on 04<sup>th</sup>; Uttarakhand, Madhya Maharashtra on 06<sup>th</sup> & 07<sup>th</sup>; West Rajasthan during 04<sup>th</sup>-07<sup>th</sup>; Marathwada on 07<sup>th</sup>; Gujarat state during 04<sup>th</sup>-08<sup>th</sup> May.
- ✓ **Isolated hailstorm** activity likely over West Madhya Pradesh, Haryana, Telangana on 04<sup>th</sup>; East Madhya Pradesh, Gujarat state on 04<sup>th</sup> & 05<sup>th</sup>; Vidarbha, Chhattisgarh, Odisha on 05<sup>th</sup>; Uttarakhand during 04<sup>th</sup>-06<sup>th</sup> May; Madhya Maharashtra on 06<sup>th</sup> & 07<sup>th</sup> & 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**

- In **Odisha, West Rajasthan, Gujarat, Arunachal Pradesh, Assam & Meghalaya** and **Coastal Andhra Pradesh**, make provision to drain out excess water from standing crop and vegetable fields.
- In **Odisha, Uttarakhand, Gujarat, Madhya Pradesh, Chhattisgarh, Vidarbha, Marathwada, Interior Karnataka** and **Telangana**, 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 **Uttarakhand, Marathwada, Interior Karnataka** and **Gujarat**; groundnut, onion, fruits and vegetables in **Madhya Maharashtra**.
- 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.
- 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

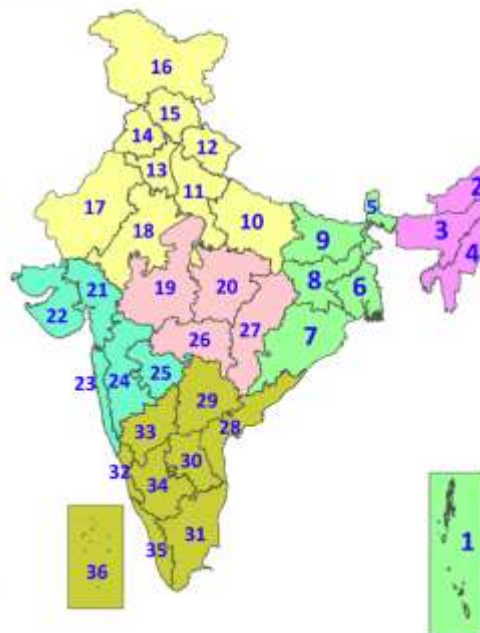
32. तटीय कर्नाटक

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 Rain



Very Heavy Rain



Extremely Heavy Rain



Thunder & Lightning



Hailstorm



Dust Raising Winds



Heavy Snow



Dust Storm



Heat Wave



Warm Night



Hot Day



Hot & Humid



Strong Surface Winds



Cold Wave



Cold Day



Ground Frost

### 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.