



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



Press Release

Date: 09th May, 2025

Time of Issue: 1345 hours IST

Subject: i) A fresh spell of heat wave likely to commence over East India from 10th May, 2025.

ii) Rainfall accompanied with thunderstorms, lightning likely to continue over Northwest & central India for next 4-5 days.

iii) Thunderstorm, lightning & squally winds likely over Maharashtra & Gujarat state on 09th May, 2025.

iv) Heavy Rainfall accompanied with thunderstorm & lightning likely over Northeast India during 10th to 13th May, 2025.

Advance of Southwest Monsoon:

Southwest Monsoon is very likely to advance into South Andaman Sea, some parts of Southeast Bay of Bengal and Nicobar Islands around 13th May, 2025.

Realised weather during past 24 hours till 0830 hours IST of today, the 09th May 2025 (Annexure I):

- ❖ **Thunderstorm accompanied with Squally/Gusty winds** with speed 70-80 kmph prevailed at isolated places over Uttarakhand, Punjab; with speed 30-60 kmph prevailed at isolated places over Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Madhya Maharashtra, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Assam & Meghalaya, Arunachal Pradesh, Jharkhand, Chhattisgarh, Madhya Pradesh, Uttar Pradesh, Haryana, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Hailstorm** occurred at isolated places over Uttarakhand.
- ❖ **Heavy rainfall** has been recorded at isolated places over West Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, East Rajasthan

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

Temperature:

- ❖ Maximum Temperature observations during past 24 hours till 0830 hours IST of today are appended in [Annexure II](#).

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

- ❖ A Western **Disturbance** seen as a cyclonic circulation over north Pakistan & neighbourhood in lower and middle tropospheric levels.
- ❖ Another fresh **Western Disturbance** seen as a trough in middle tropospheric westerlies runs roughly along Long. 55°E to the north of Lat. 27°N.
- ❖ The **upper air cyclonic circulation** over northeast Rajasthan & neighbourhood in lower and middle tropospheric levels.
- ❖ The **trough** runs from eastcentral Arabian Sea to cyclonic circulation over northeast Rajasthan & neighbourhood in lower and middle tropospheric levels.
- ❖ The **north- south trough** runs from North Interior Karnataka to Gulf of Mannar across Rayalaseema and Tamil Nadu in lower tropospheric levels.
- ❖ A trough in westerlies runs from East Uttar Pradesh to North Interior Karnataka in upper tropospheric levels.
- ❖ The **upper air cyclonic circulation** over Northeast Assam & neighbourhood in lower tropospheric levels.
- ❖ Another, **upper air cyclonic circulation** over southeast Bay of Bengal and adjoining south Andaman Sea in lower & middle tropospheric levels.
- ❖ Under the influence of these systems, the following weather is likely:

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 during 09th-11th; **Isolated to Scattered** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph** over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh during 09th-11th and over Rajasthan during 09th- 13th May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** over Rajasthan on 09th May.

West India:

- ✓ **Isolated** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over West India during 09th-11th May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** over Gujarat State on 09th May.

East & Central India:

- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 40-50 kmph gusting to 60 kmph** likely over Madhya Pradesh, Vidarbha & Chhattisgarh during 09th-13th May; **with winds speed reaching 30-40 kmph gusting to 50 kmph** over Sub-Himalayan West Bengal & Sikkim during 09th-12th and over Gangetic West Bengal during 11th-13th May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Chhattisgarh during 09th-13th; Vidarbha on 12th & 13th and over East Madhya Pradesh on 13th May.
- ✓ **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 11th-13th with **very heavy rainfall** on 12th May.

South peninsular India:

- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & strong winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka during 09th-13th and over Tamilnadu Puducherry & Karaikal on 09th May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Coastal Andhra Pradesh & Yanam on 09th & 13th; Telangana on 12th & 13th May.
- ✓ **Isolated heavy rainfall** likely over Tamilnadu Puducherry & Karaikal on 09th May.

Northeast India:

- ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-40 kmph gusting to 50 kmph** likely over Northeast India during next 5 days.
- ✓ **Isolated heavy rainfall** over Arunachal Pradesh during 10th-13th, Assam & Meghalaya during 11th-15th and over Nagaland, Manipur, Mizoram & Tripura during 11th-13th with **very heavy rainfall** over Arunachal Pradesh on 12th and over Assam & Meghalaya on 13th May.

Maximum Temperature Forecast:

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

Heat wave and Hot & Humid weather warning:

- ❖ **Heat wave conditions** very likely in isolated pockets of Sub-Himalayan West Bengal & Sikkim on 11th & 12th; Gangetic West Bengal during 10th-14th; Bihar, Odisha during 11th-14th; Jharkhand during 12th-14th; East Uttar Pradesh on 14th & 15th May.
- ❖ **Hot & humid weather** is likely to prevail over Gangetic West Bengal on 09th; Bihar on 10th; Jharkhand on 10th & 11th; Odisha, Kerala & Mahe, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 09th & 10th May.

iv. Weather conditions and forecast over Delhi/NCR during 09th May to 12th May, 2025 (Annexure V)

For more details, kindly refer National Weather Bulletin:

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, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim; at many places over Himachal Pradesh, Assam & Meghalaya; at a few places over Uttarakhand, Punjab, Rajasthan, Gujarat State, Coastal Andhra Pradesh & Yanam, Rayalaseema; at isolated places over Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Telangana, Interior Karnataka, Madhya Maharashtra, Konkan & Goa, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Odisha, Jharkhand, Bihar, Gangetic West Bengal, Chhattisgarh, Vidarbha, Madhya Pradesh, Uttar Pradesh, Haryana Chandigarh & Delhi.

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

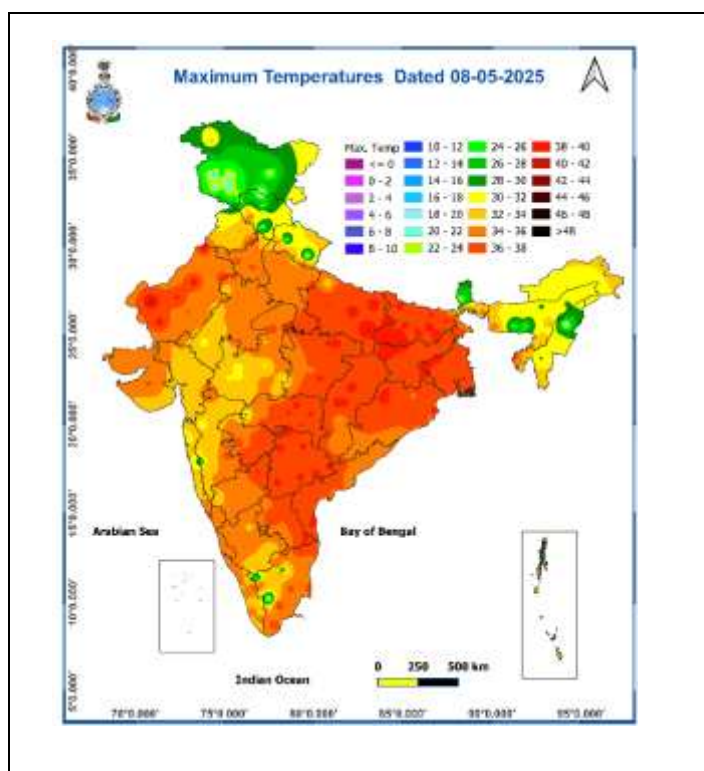
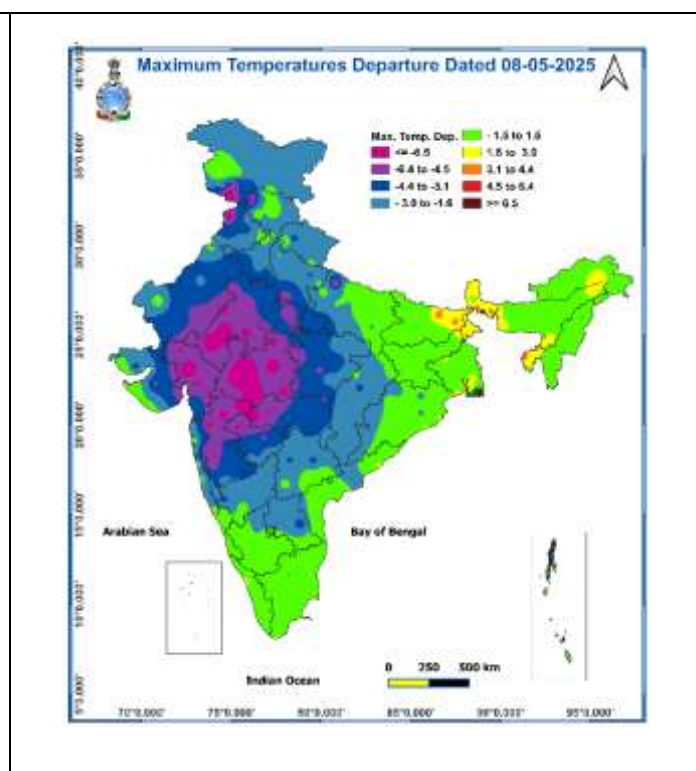
- ❖ **Sub Himalayan West Bengal & Sikkim:** Sevoke (dist Darjeeling) 11; Indong T.e. (dist Jalpaiguri) 10; Nagarkata (dist Jalpaiguri) 8; Neora (dist Jalpaiguri), Murti (dist Jalpaiguri), Hasimara (dist Alipurduar), Pakyong (dist Pakyong), Ghish (dist Jalpaiguri), Hilla T.e. (dist Jalpaiguri), Washabari Tea Estate (dist Jalpaiguri) 6 Each;
- ❖ **East Rajasthan:** Tonk Tehsil SR (dist Tonk) 8; Sambhar SR (dist Jaipur) 6; Bhopalsagar SR (dist Chittorgarh) 5;
- ❖ **Chhattisgarh:** Bhopalpatnam (dist Bijapur) 7;
- ❖ **West Madhya Pradesh:** Sailana (dist Ratlam) 7, Shamgarh (dist Mandsaur) 4,
- ❖ **Andaman & Nicobar Islands:** Hut Bay (dist South Andaman) 6; Port Blair (dist South Andaman) 5;
- ❖ **Coastal Andhra Pradesh & Yanam:** Addanki (dist Bapatla) 5;
- ❖ **Saurashtra & Kutch:** Talala (dist Gir Somnath) 5;
- ❖ **Gujarat Region:** Dolvan (dist Tapi) 5;
- ❖ **Odisha:** Nuagada (dist Gajapati) 5;
- ❖ **Jharkhand:** Panchet (dist Dhanbad) 5;
- ❖ **West Rajasthan:** Bali (dist Pali), Desuri (dist Pali) 5 Each.

Realised Gusty Winds during past 24hours ending at 0300 UTC of today i.e 09.05.2025 (AWS Data, KT):

- ❖ **Punjab:** Faridkot=81
- ❖ **Uttarakhand:** Jollygrant (Aws)-74, Mohkampur (Aws)-37
- ❖ **Haryana:** Hissar 64
- ❖ **Jharkhand:** Kvjamtara (48 Kmph), Bokaro_Kvk (48 Kmph),
- ❖ **Andaman & Nicobar Islands:** Sri Vijaya Puram- 44 Kmph
- ❖ **Gangetic West Bengal:** Imd_Mo_Assansol (44 Kmph), Barrackpore_Aws400 (44 Kmph), Santiniketan-Bolpur_Kvk (35 Kmph), Raidighi (35 Kmph), Kvk_Burdwan_Budbud (33 Kmph),
- ❖ **Bihar:** Auranga Bad (41 Kmph), Arwal_Aws400 (31 Kmph)
- ❖ **Himachal Pradesh:** Neri=41, Dhaulakaun=41, Seobagh=37
- ❖ **Nagaland, Manipur, Mizoram & Tripura:** Imphal_Afmu = 40, Porompat = 35
- ❖ **Sub-Himalaya West Bengal & Sikkim:** Jalpaiguri (39 Kmph),Dinhata_Aws400 (33 Kmph), Kalimpong_Amfu (31 Kmph), Dhupguri (31 Kmph)
- ❖ **Arunachal Pradesh:** Anini 39, Dirang 33, Kalaktang 31
- ❖ **Assam & Meghalaya:** Gossaigaon_Amfu 31, Kokrajhar=35 Dima Hasao=31, Shillong =35 Mawsynram 35, Nongstoin_Kvk 35, Ampati 35
- ❖ **Odisha:** Janhukuda(Near_Satapada) (29kmph), Gunupur_Kvk (29 Kmph),

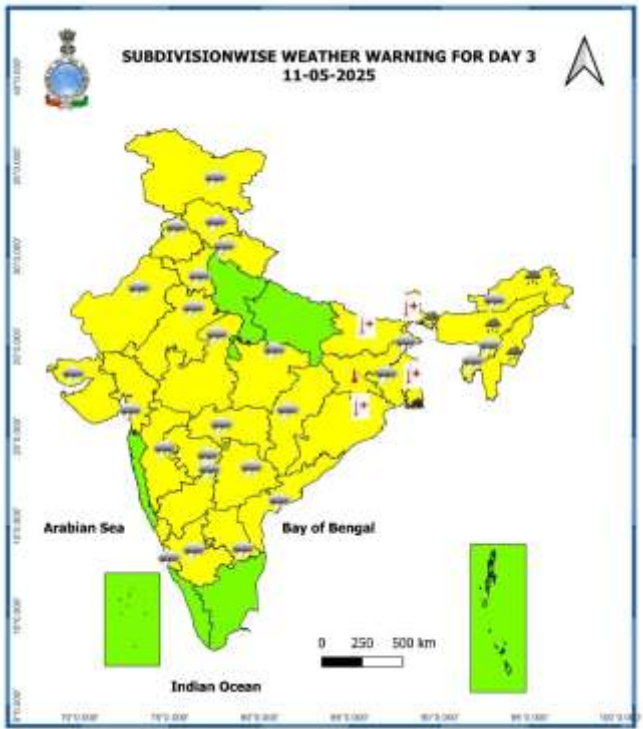
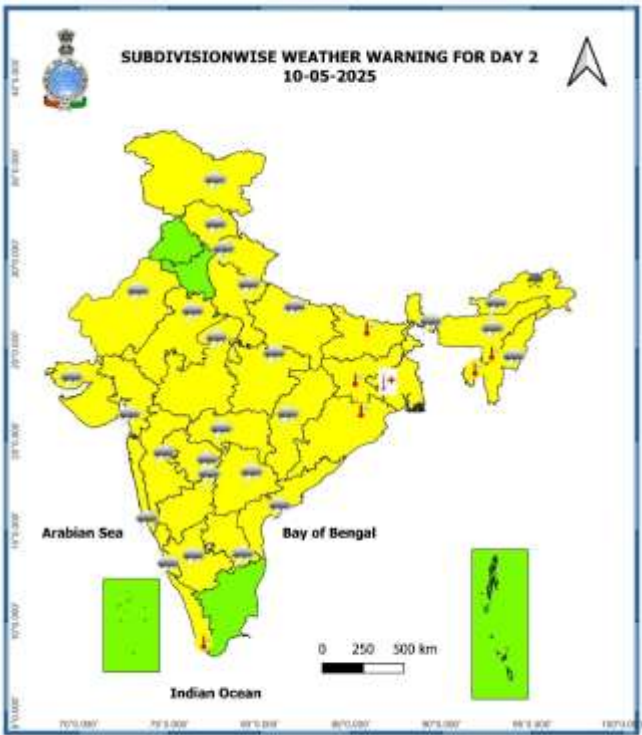
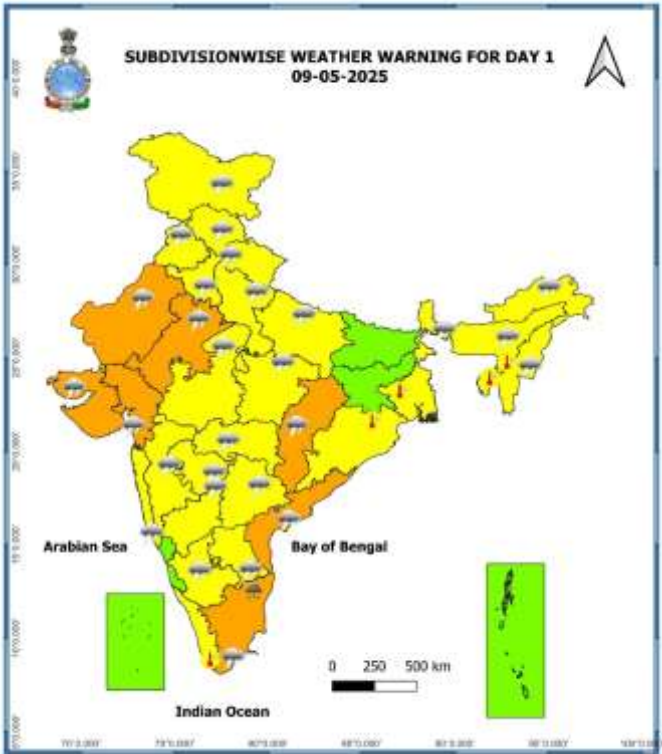
Temperature observations during past 24 hours till 0830 hours IST of today:

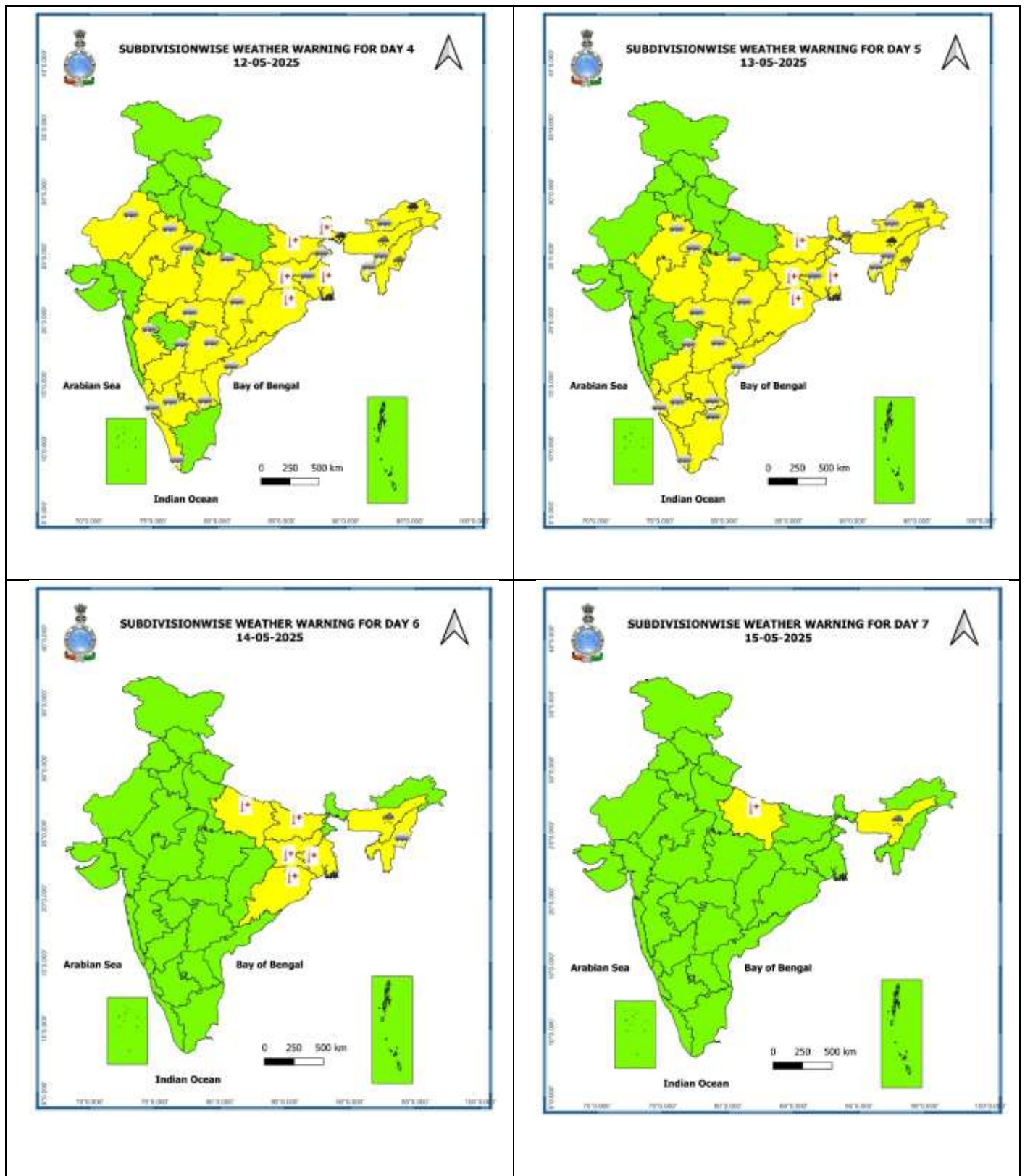
- ❖ Yesterday, **Maximum Temperatures** are in the **range of 38-41°C** at a few pockets of West Rajasthan, East Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Chhattisgarh, East Madhya Pradesh, Odisha, Telangana; at isolated pockets of Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal; **in the range 34-37°C** in isolated pockets of Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Interior Karnataka, Vidarbha, Saurashtra & Kutch, Kerala & Mahe and they were **less than 34°C** elsewhere over remaining parts of the country. Yesterday, the **highest maximum temperature of 41.0°C** was reported at **Jaisalmer (West Rajasthan)** over the country.
- ❖ Yesterday, Maximum Temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Bihar, Nagaland, Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya, Odisha, Tamil Nadu, Puducherry & Karaikal, Gangetic West Bengal. These were **markedly below normal (-5.1 or below)** at a few places over West Madhya Pradesh, Madhya Maharashtra, East Rajasthan; at isolated places over many places over East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Punjab, West Uttar Pradesh, Vidarbha, Andaman & Nicobar Islands, Marathwada; at isolated places over Haryana-Chandigarh-Delhi, Telangana, East Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Uttarakhand, Himachal Pradesh, Chhattisgarh, Rayalaseema, Konkan & Goa; at isolated places over North Interior Karnataka 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	09-May	10-May	11-May	12-May	13-May	14-May	15-May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	SCT	FWS	WS	WS	WS	FWS	FWS
3	ASSAM & MEGHALAYA	SCT	SCT	FWS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	SCT	FWS	WS	WS	FWS	FWS
6	GANGETIC WEST BENGAL	ISOL	DRY	ISOL	ISOL	ISOL	SCT	SCT
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
9	BIHAR	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
10	EAST UTTAR PRADESH	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	FWS	SCT	SCT	SCT	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
18	EAST RAJASTHAN	SCT	ISOL	ISOL	ISOL	ISOL	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJARAT REGION	FWS	SCT	ISOL	ISOL	ISOL	DRY	DRY
22	SAURASHTRA & KUTCH	FWS	SCT	ISOL	ISOL	ISOL	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	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	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	SCT	SCT	FWS	FWS
29	TELANGANA	ISOL	SCT	ISOL	SCT	FWS	FWS	FWS
30	RAYALASEEMA	ISOL	ISOL	ISOL	SCT	SCT	FWS	FWS
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
32	COASTAL KARNATAKA	DRY	ISOL	ISOL	SCT	SCT	FWS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	SCT	SCT	FWS	FWS
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	SCT	SCT	FWS	FWS
35	KERALA & MAHE	ISOL	ISOL	ISOL	SCT	SCT	FWS	FWS
36	LAKSHADWEEP	DRY	SCT	SCT	SCT	SCT	FWS	FWS

- 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 09th to 12th May 2025

Past Weather:

There has been rise in minimum temperature and 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 36 to 37°C and 23 to 27°C, respectively. The minimum temperature was near normal and the maximum temperature was below normal up to 02 - 04°C over Delhi/NCR. Partly cloudy sky conditions with predominant surface wind from the southeast/east direction, with wind speeds less than 20 kmph with gusting to 40 kmph prevailed during the past 24 hours. Partly cloudy sky conditions with wind speed less than 08 kmph from the southeast direction prevailed over the region in the forenoon today.

Weather Forecast:

09.05.2025: Partly cloudy sky. Very light to light rain at isolated places with thunderstorms/lightning and strong surface winds during evening/night. Wind speed may increase temporarily up to 30-40 kmph gusting to 50 kmph during thunderstorms. The maximum temperatures over Delhi are likely to be in the range of 35 to 37°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 20 kmph till evening. It would decrease becoming less than 12 kmph from the northeast direction during the night.

10.05.2025: Partly cloudy sky. Very Light rain. Sustained surface winds (speed 10 – 20 kmph) occasionally gusting to 30 kmph. 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 up to 01 - 03 °C, and the maximum temperature will be below normal up to 01 - 03 °C. The predominant surface wind will likely be from the southwest direction with a wind speed of 08-12 kmph during morning hours. The wind speed will gradually increase becoming 10-12 kmph from the southwest direction in the afternoon. It will increase becoming less than 20 kmph from the northwest direction during evening and night.

11.05.2025: Partly cloudy sky. Sustained surface winds (speed 15 – 25 kmph) occasionally gusting to 35 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 37 to 39°C and 26 to 28°C, respectively. The minimum temperature will be above normal up to 01 - 03 °C, and the maximum temperature will be below normal up to 01 - 03 °C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 14 kmph during the morning hours. The wind speed will gradually increase becoming 15-18 kmph from the northwest direction in the afternoon. It will decrease becoming less than 14 kmph from the northwest direction during evening and night.

12.05.2025: Partly cloudy sky. Sustained surface winds (speed 15 – 25 kmph) occasionally gusting to 35 kmph. The maximum and minimum temperatures over Delhi are likely to be in the range of 37 to 39°C and 27 to 29°C, respectively. The minimum temperature will be above normal up to 02 - 04 °C, and the maximum temperature will be below normal up to 01 - 02 °C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 14 kmph during the morning hours. The wind speed will gradually increase becoming 12-16 kmph from the northwest direction in the afternoon. It will decrease becoming less than 12 kmph from the northwest direction during evening and night.

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

- Be cautious and take precautionary measures, though there is the likelihood of thunderstorm/lightning/dust storm accompanied by 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** over Rajasthan, Gujarat state on 09th May; Chhattisgarh during 09th-13th; Vidarbha on 12th & 13th and over East Madhya Pradesh on 13th May. Coastal Andhra Pradesh & Yanam on 09th & 13th; Telangana on 12th & 13th 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 Sub-Himalayan West Bengal & Sikkim on 11th & 12th; Gangetic West Bengal during 10th-14th; Bihar, Odisha during 11th-14th; Jharkhand during 12th-14th; East Uttar Pradesh on 14th & 15th 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 **Arunachal Pradesh, Assam & Meghalaya, Manipur, Sub Himalayan West Bengal & Sikkim and Tamil Nadu**, make provision to drain out excess water from standing crop and vegetable fields.
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.
- To protect standing crops, vegetables and orchards from the adverse effects of heat waves and high temperatures, apply light and frequent irrigation in the evening.

Livestock / Poultry / Fishery

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

Legends & abbreviations:

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

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह

2. अरुणाचल प्रदेश

3. असम और मेघालय

4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल

7. ओडिशा

8. 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°C to 6.4°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°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°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°C to -6.4°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°C to -6.4°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)

* 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)

Hot and Humid: When maximum temperatures remain 3°C above normal along with the above normal relative humidity.