

Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 26th February, 2025

Time of Issue: 1305 hours IST

Subject: 1) An active Western Disturbance is likely to cause heavy rainfall/snowfall over Jammu & Kashmir and Himachal Pradesh during 26th-28th and Uttarakhand on 27th & 28th February. It is also likely to cause isolated to scattered light to moderate rainfall over plains of northwest India during 26th to 28th February, 2025.
2) Heat wave conditions at isolated pockets likely over Konkan, during next 24 hours.

i. Realised weather during past 24 hours till 0830 hours IST of today (Annexure I)

Temperature:

- ❖ Maximum temperatures were **markedly above normal (5°C or more)** at a few places over Coastal Karnataka, Konkan & Goa; at isolated places over Saurashtra & Kutch; **appreciably above normal (3°C to 5°C)** at a few places over Gujarat Region; at isolated places over Chhattisgarh, Coastal Andhra Pradesh & Yanam, Vidarbha, West Uttar Pradesh. Yesterday, the highest **maximum temperature of 39.0°C** was reported at **Kannur Airport (Kerala)** over the plains of the country.
- ❖ Further detailed temperature observations during past 24 hours till 0830 hours IST of today are provided in **Annexure II**

Rainfall:

- ❖ Light to moderate **Rainfall/Snowfall** observed at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh; at a few places over Uttarakhand, Arunachal Pradesh; Light to moderate **Rainfall** at most places over Assam & Meghalaya; at a few places over Punjab, Haryana; at isolated places over Assam & Meghalaya.
- ❖ **Heavy rainfall** observed at isolated places over Tamilnadu Puducherry & Karaikal and Andaman & Nicobar Islands.
- ❖ **Heat Wave** observed at isolated places over Konkan & Goa.
- ❖ **Hot & Humid** observed at isolated places over Konkan & Goa, Gujarat state.
- ❖ **Thunderstorm with lightning** reported at isolated places over Jammu & Kashmir.

ii. Weather Systems, Forecast and warning (Annexure III & IV):

- ❖ The Western Disturbance as a trough in lower to upper tropospheric levels with its axis at 3.1 km above mean sea level roughly along Long. 56°E to the north of Lat. 24°N persists. There is a Divergence of the order of 30 to $40 \times 10^{-6} \text{ s}^{-1}$ in forward sector of the trough over North Pakistan and adjoining Indian Himalayas. High moisture feeding is also likely over Western Himalayan Region in lower tropospheric levels from Arabian Sea mainly till 28th February, 2025. As a result;
 - ✓ **Fairly widespread to widespread** light to moderate rainfall/snowfall accompanied with thunderstorm & lightning likely over Western Himalayan region during 26th-28th February and decrease in intensity thereafter.
 - ✓ **Heavy rainfall/snowfall** at isolated places likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh during 26th-28th; Uttarakhand on 27th & 28th February; with isolated **very heavy rainfall/snowfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 27th & Himachal Pradesh on 27th & 28th February.
 - ✓ **Scattered to Fairly Widespread** light to moderate rainfall accompanied with thunderstorm & lightning likely over Punjab, Haryana, Chandigarh during 26th February-01st March; Isolated light to moderate rainfall accompanied with thunderstorm & lightning likely over Uttar Pradesh, Rajasthan during 27th February-01st March with **gusty winds (speed 30-40 kmph)** very likely over Punjab & Haryana on 27th & 28th February.
 - ✓ **Heavy rainfall** at isolated places likely over Punjab on 28th February.

- ✓ **Isolated Hailstorm activity also likely over Punjab and Haryana on 27th & 28th February.**
- ❖ Under the influence of an active easterly wave;
 - ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning** very likely over Andaman & Nicobar Islands on 26th February.
- ❖ **Scattered to Fairly widespread** light/moderate rainfall accompanied with **thunderstorm & lightning** very likely over Tamilnadu Puducherry & Karaikal and Kerala & Mahe during 27th February to 02nd March; Lakshadweep on 01st & 02nd March with isolated Heavy rainfall on Tamilnadu Puducherry & Karaikal during 27th February - 01st March; Kerala & Mahe during 28th February – 02nd March and over Lakshadweep on 01st March.
- ❖ A fresh **Western Disturbance** is likely to affect Northwest India from 02nd March. Under its influence; **Isolated to Scattered** light/moderate rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh, Uttarakhand during 02nd -04th; **Isolated** light/moderate rainfall/snowfall likely over Punjab, Haryana, Chandigarh on 03rd February.

Temperature Forecast:

Forecast of temperature:

Minimum Temperature:

- ❖ Gradual rise in minimum temperatures by 2°C likely over Northwest India during next 2 days and gradual fall by 2-4°C thereafter.
- ❖ No significant change in minimum temperatures likely over rest parts of India during next 4-5 days.

Maximum temperature:

- ❖ No significant change in maximum temperatures likely over Northwest India during next 24 hours and gradual fall by 3-5°C thereafter.
- ❖ No significant change in maximum temperatures likely over Konkan & Goa during next 24 hours and gradual fall by 2°C thereafter.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Central India & Interior Maharashtra during next 4 days.
- ❖ No significant change in maximum temperatures likely over Gujarat state during next 2 days and gradual rise by 2-3°C thereafter.
- ❖ No significant change in maximum temperatures likely over East India during next 2 days and gradual rise by 2-3°C thereafter.
- ❖ No significant change in maximum temperatures likely over rest parts of India during next 4-5 days.

Heat Wave and Hot & Humid weather warnings:

- ❖ **Heat wave conditions** very likely in isolated pockets over Konkan & Goa on 26th February.
- ❖ **Hot and humid weather** very likely to prevail over Gujarat State on 26th & 27th; Konkan & Goa, Coastal Karnataka during 26th -28th February.

iii. Weather conditions and forecast over Delhi/NCR during 26th Feb. to 29th Feb. 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>

Significant rainfall recorded during past 24 hours till 0830 hours IST of today (in cm):

- ❖ **Andaman & Nicobar Islands** : Iaf Carnicobar (dist Nicobar) 11, Car Nicobar (dist Nicobar) 10, Hut Bay (dist South Andaman) 4,
- ❖ **Tamil Nadu**: Rameswaram (dist Ramanathapuram) 7,
- ❖ **Odisha**: Athgarh (Cuttack) 5, Ghasipura (Keonjhar) 4, Bhandaripokhari (Bhadrak) 4,
- ❖ **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad** : Banihal (dist Ramban) 4, Nowgam (dist Kupwara) 4, Gulmarg R.s. (dist Baramulla) 3, Baramulla Aws (dist Baramulla) 3, Batote (dist Ramban) 3, Raj Pura Arg (dist Poonch) 3, Bandipora Arg (dist Bandipore) 3, Lolab (dist Kupwara) 3, Buhama (dist Kupwara) 3, Tengmarg
- ❖ **Himachal Pradesh**: Kukumsheri (dist Lahaul & Spiti) 4, Manali (dist Kullu) 3, Seo Bagh (dist Kullu) 3,
- ❖ **Arunachal Pradesh**: Tawang_Aws (dist Tawang) 2, Tawang Chamgbu Kvk Aws (dist Tawang) 2

Thunderstorm reported:

- ❖ **Jammu & Kashmir**: Kupwara.

ANNEXURE II

- ❖ Minimum temperatures are in the range of 4 °C to 10 °C at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand; at isolated places over Himachal Pradesh, Jammu & Kashmir; 10°C to 15°C most parts of Arunachal Pradesh, East Madhya Pradesh, East Uttar Pradesh; at many places over Bihar, Himachal Pradesh, Jharkhand, West Uttar Pradesh; at a few places over Chhattisgarh; at isolated places over Assam & Meghalaya, East Rajasthan, Haryana-Chandigarh-Delhi, Jammu & Kashmir, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, West Madhya Pradesh; 15-20°C over most parts of Haryana-Chandigarh-Delhi, Marathwada, North Interior Karnataka, Punjab, South Interior Karnataka, Vidarbha, West Madhya Pradesh, West Rajasthan; at many places over Madhya Maharashtra, Rayalaseema; at a few places over Bihar, Chhattisgarh, Gangetic West Bengal, Jharkhand, Telangana; at isolated places over East Madhya Pradesh, West Uttar Pradesh; 20-25°C over most parts of Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Konkan & Goa, Lakshadweep; at many places over Gangetic West Bengal, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Telangana; at isolated places over Madhya Maharashtra, Rayalaseema. Today, the lowest minimum temperature of **9.5°C** is reported at **Ayodhya (Uttar Pradesh)** over the plains of the country.
- ❖ During the past 24 hours, **minimum temperatures** have fallen by 1-3°C at a few places over Chhattisgarh, Coastal Andhra Pradesh & Yanam, Jammu & Kashmir, Nagaland, Manipur, Mizoram & Tripura, North Interior Karnataka, Vidarbha; at isolated places over Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal, West Rajasthan and it has risen by 1-3°C over most parts of Andaman & Nicobar Islands, West Uttar Pradesh; at many places over East Rajasthan, Himachal Pradesh, Punjab, South Interior Karnataka, Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh; at a few places over Coastal Karnataka, Kerala & Mahe, Marathwada, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Uttarakhand, West Rajasthan; at isolated places over East Madhya Pradesh, East Uttar Pradesh, Haryana-Chandigarh-Delhi, Jammu & Kashmir, Madhya Maharashtra.
- ❖ Minimum temperatures are **markedly above normal (5°C or more)** over most parts of Punjab; at a few places over West Rajasthan; at isolated places over Haryana-Chandigarh-Delhi, Saurashtra & Kutch, West Uttar Pradesh; **appreciably above normal by (3°C to 5°C)** over most parts of Gujarat Region; at a few places over Himachal Pradesh, Jammu & Kashmir, Uttarakhand; at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, East Madhya Pradesh, East Rajasthan, East Uttar Pradesh, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, West Madhya Pradesh; **above normal by (1°C to 3°C)** at many places over Bihar, Madhya Maharashtra; at a few places over Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Konkan & Goa, North Interior Karnataka; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha. These are **below normal by (-3°C to -1°C)** over most parts of Arunachal Pradesh and near normal over remaining parts of the country.
- ❖ Maximum temperatures were in the range of 35-39°C over most parts of Coastal Karnataka, Kerala & Mahe; at many places over Saurashtra & Kutch; at a few places over Coastal Andhra Pradesh & Yanam, Gujarat Region, Konkan & Goa, North Interior Karnataka, Rayalaseema, Telangana, Vidarbha; at isolated places over Madhya Maharashtra, Odisha, Tamil Nadu, Puducherry & Karaikal; 30-35°C over most parts of Chhattisgarh, Jharkhand, Lakshadweep, Madhya Maharashtra, Marathwada, Odisha, South Interior Karnataka, West Rajasthan; at many places over Coastal Andhra Pradesh & Yanam, Gangetic West Bengal, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Telangana, Vidarbha, West Madhya Pradesh; at a few places over Andaman & Nicobar Islands, East Madhya Pradesh, Konkan & Goa, Nagaland, Manipur, Mizoram &

Tripura, North Interior Karnataka, Rayalaseema, Saurashtra & Kutch; at isolated places over Assam & Meghalaya, East Rajasthan, East Uttar Pradesh, Kerala & Mahe, West Uttar Pradesh. Yesterday, the highest **maximum temperature of 39.0°C was reported at Kannur Airport (Kerala)** over the plains of the country.

❖ During the past 24 hours, **maximum temperatures** had fallen by 1-3°C at many places over Andaman & Nicobar Islands, Madhya Maharashtra; at a few places over Arunachal Pradesh, Himachal Pradesh, Punjab, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Telangana, West Rajasthan; at isolated places over Assam & Meghalaya, Bihar, Chhattisgarh, Coastal Andhra Pradesh & Yanam, East Madhya Pradesh, East Rajasthan, East Uttar Pradesh, Gangetic West Bengal, Gujarat Region, Haryana-Chandigarh-Delhi, Jammu & Kashmir, Kerala & Mahe, Konkan & Goa, Odisha, Saurashtra & Kutch, Vidarbha, West Madhya Pradesh. It had risen by 1-3°C at many places over Haryana-Chandigarh-Delhi; at a few places over East Rajasthan, Gujarat Region, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim, Uttarakhand, West Uttar Pradesh; at isolated places over Assam & Meghalaya, Chhattisgarh, East Madhya Pradesh, Gangetic West Bengal, Himachal Pradesh, Kerala & Mahe, Konkan & Goa, Odisha, Vidarbha, West Madhya Pradesh, West Rajasthan.

❖ Maximum temperatures were **markedly above normal (5°C or more)** at a few places over Coastal Karnataka, Konkan & Goa; at isolated places over Saurashtra & Kutch; **appreciably above normal (3°C to 5°C)** at a few places over Gujarat Region; at isolated places over Chhattisgarh, Coastal Andhra Pradesh & Yanam, Vidarbha, West Uttar Pradesh; **above normal (1°C to 3°C)** at many places over Haryana-Chandigarh-Delhi, Uttarakhand, West Rajasthan; at a few places over East Rajasthan, Jammu & Kashmir, Kerala & Mahe, Lakshadweep, Punjab; at isolated places over Gangetic West Bengal, Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, West Madhya Pradesh. These are **below normal by (-3°C to -1°C)** over most parts of Arunachal Pradesh.

Fig. 1: Maximum Temperatures

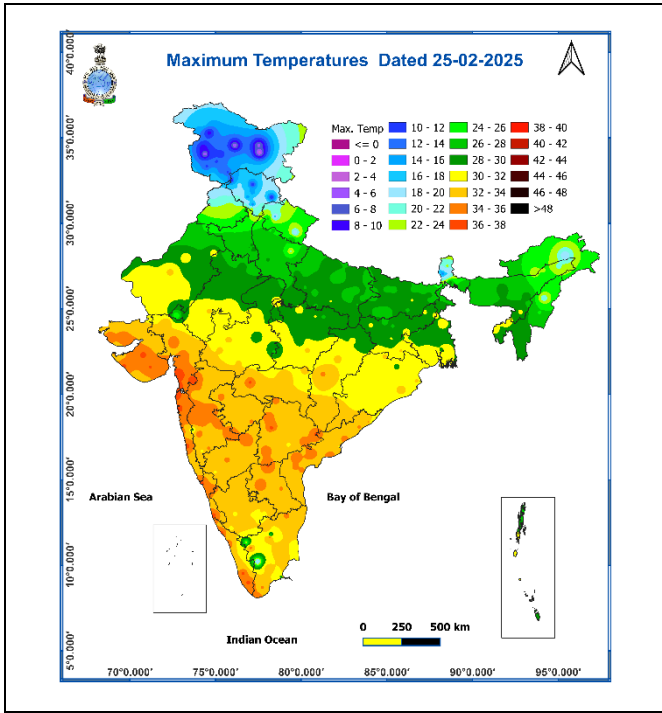


Fig. 2: Departure of Maximum Temperatures

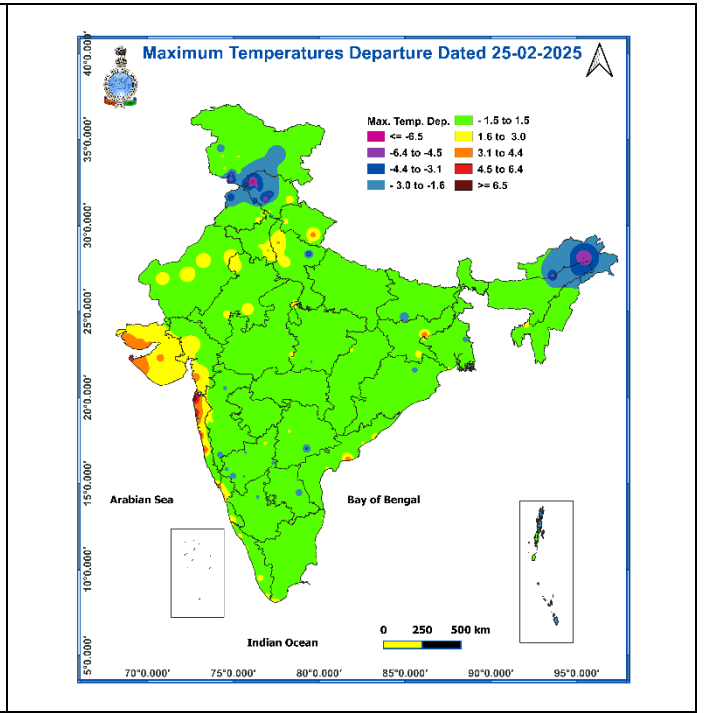


Fig. 3: Minimum Temperatures

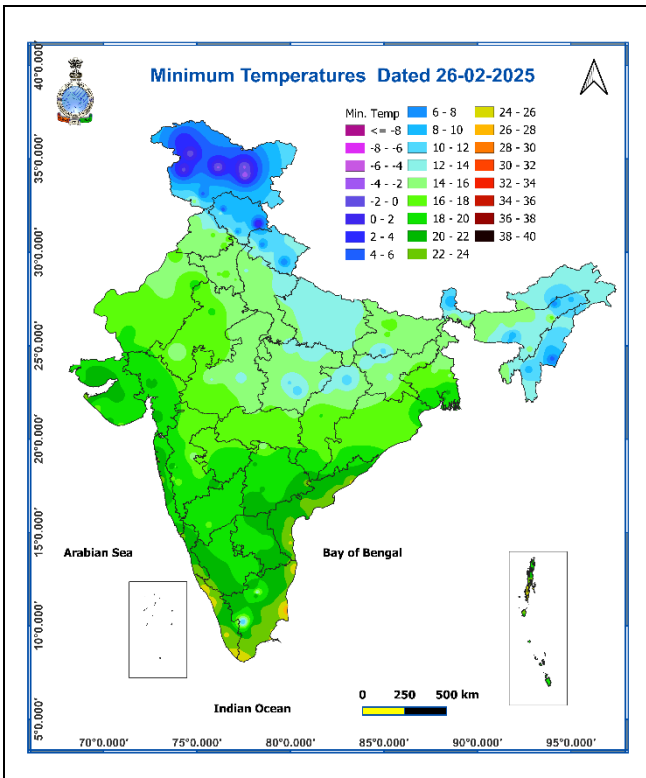
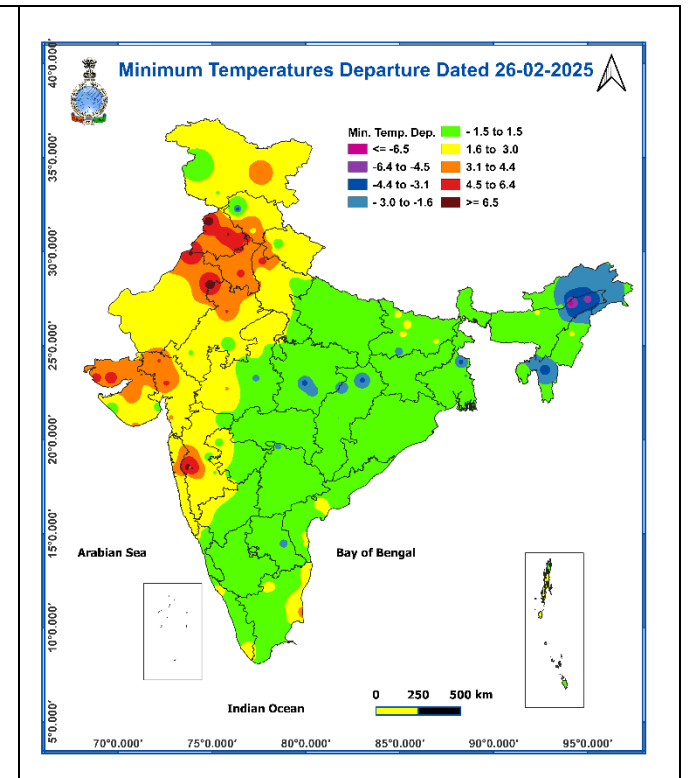


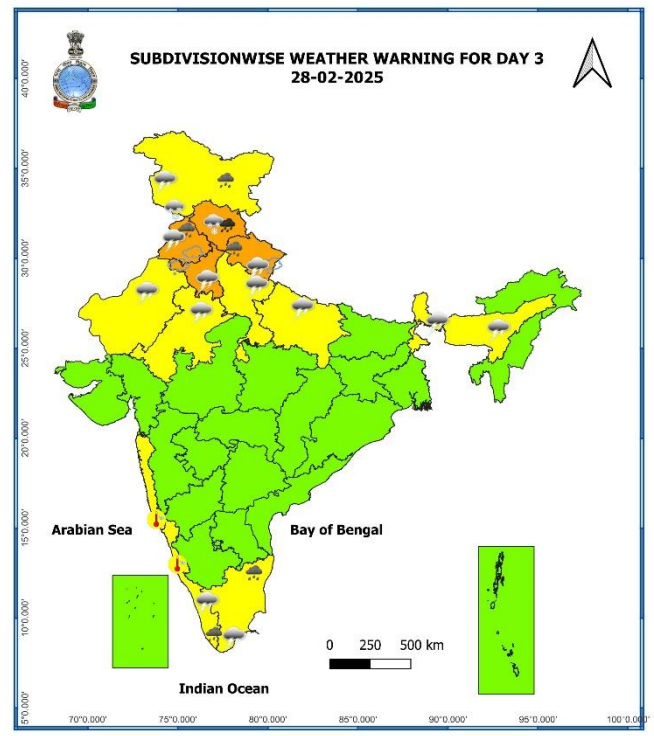
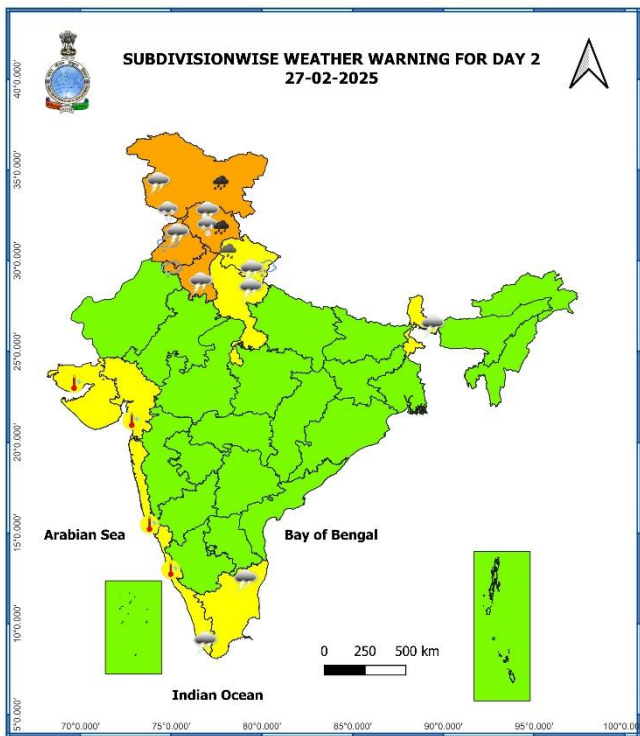
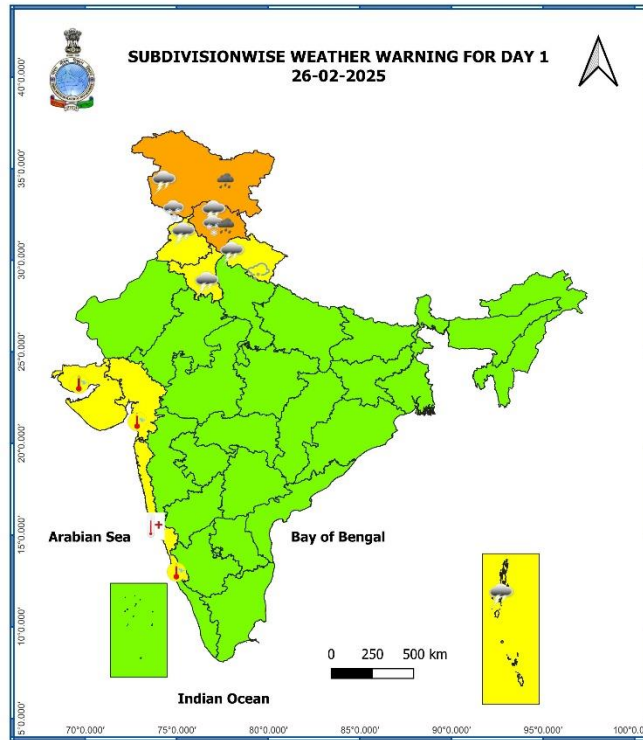
Fig. 4: Departure of Minimum Temperatures

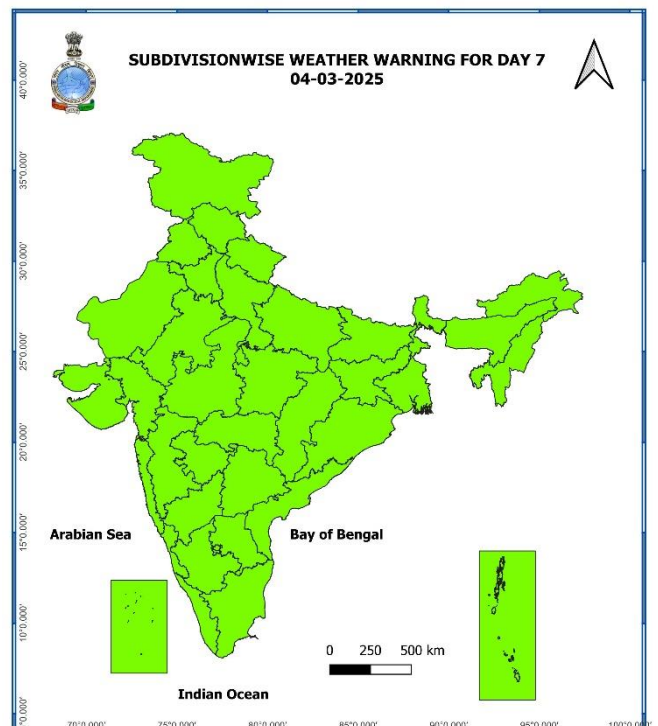
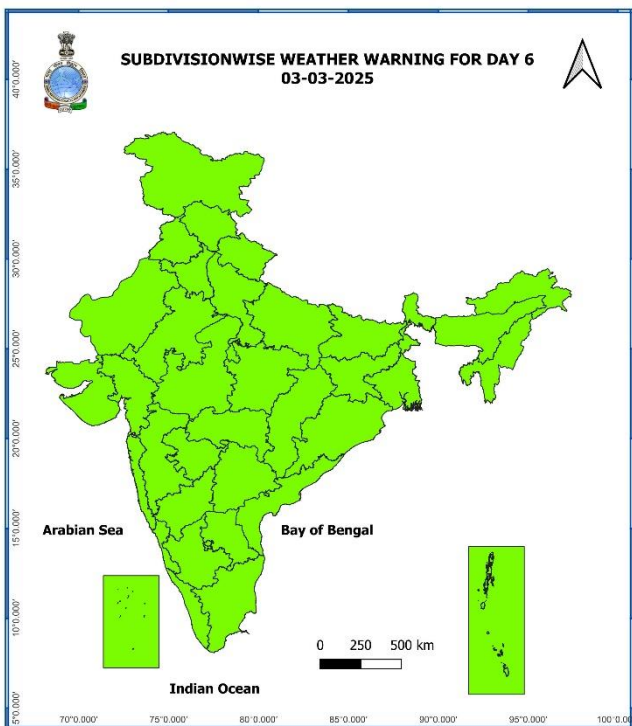
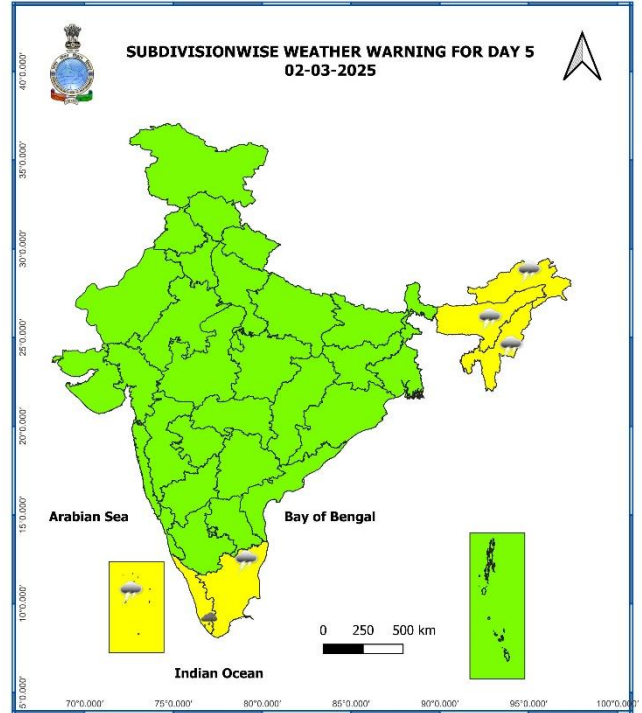
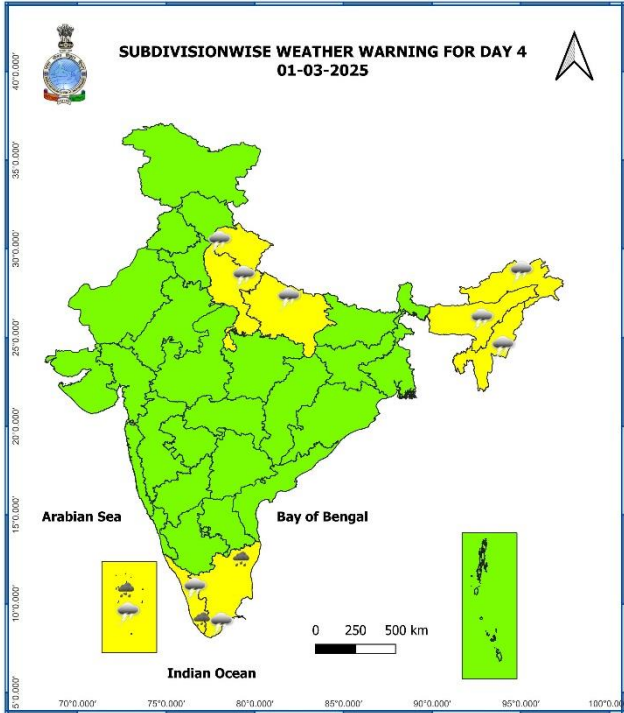


ANNEXURE III

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

There has been a rise in minimum temperatures and an appreciable rise in maximum temperatures over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 27 to 29°C and 15 to 17°C, respectively. The minimum temperatures were above normal by 02-05°C, and maximum temperatures were above normal by 02-03°C over most places. Partly cloudy sky conditions with predominant surface wind from the east direction with wind speed reaching 08 to 10 kmph prevailed during the past 24 hours. Mainly, mist conditions with wind speed less than 10 kmph from the east/southeast direction prevailed over the region in the forenoon today.

Weather Forecast:

26.02.2025: Partly cloudy sky. Very Light rain is likely be in night. The maximum temperature over Delhi is likely to be in the range of 29 to 31°C. The predominant surface wind will likely be from the east-southeast direction with a wind speed of less than 14 kmph till evening. It would decrease thereafter, becoming less than 08 kmph from the southeast direction during the night.

27.02.2025: Generally cloudy sky. Mist likely in the morning. Very light to light rain accompanied by thunderstorm/lightning. The maximum and minimum temperatures over Delhi are likely to be in the range of 25 to 27°C and 16 to 18°C, respectively. The predominant surface wind will likely be from the east-southeast direction with a wind speed of 08-10 kmph during morning hours. The wind speed will gradually increase thereafter, becoming 16-18 kmph from the southeast direction during the afternoon. It will increase, becoming less than 20 kmph from the east-northeast direction during evening and night.

28.02.2025: Generally cloudy sky. Very light to light rain accompanied by thunderstorm/lightning. The maximum and minimum temperatures over Delhi are likely to be in the range of 23 to 25°C and 16 to 18°C, respectively. The predominant surface wind will likely be from the southeast direction with a wind speed of 16-18 kmph during morning hours. The wind speed will gradually increase thereafter, becoming 20-22 kmph from the southeast direction during the afternoon. It will decrease, becoming less than 20 kmph from the east-southeast direction during evening and night.

01.03.2025: Partly cloudy sky. Mist likely in the morning. The maximum and minimum temperatures over Delhi are likely to be in the range of 25 to 28°C and 14 to 16°C, respectively. The predominant surface wind will likely be from the east-southeast direction with a wind speed of 12-14 kmph during morning hours. The wind speed will gradually increase thereafter, becoming 14-16 kmph from the east-southeast direction during the afternoon. It will decrease, becoming less than 10 kmph from the east-northeast direction during evening and night.

Agromet advisories for likely impact of Heavy Rainfall / Snowfall / Heat Wave

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in **Uttarakhand, Punjab and Haryana**.
- Complete harvesting of matured paddy in **Tamil Nadu and Kerala**.
- Make provision for draining out excess water from the standing crop fields in **Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Tamil Nadu and Kerala**. In case of heavy snowfall, shake the fruit bearing trees to remove snow immediately from the branches.
- Keep the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields.
- Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.
- Apply light and frequent irrigation to the standing crops in the evening to protect them from low temperature stress or cold injuries in **Konkan**.

Livestock

- 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.

Impact & Action Suggested due to heavy rainfall/ snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh during 26th-28th; Uttarakhand on 27th & 28th February; with isolated very heavy rainfall/snowfall at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 27th & Himachal Pradesh on 27th & 28th February.

A. Impact Expected

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

B. Action Suggested

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

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over Northwest India during 26th -28th February.

Impact expected:

- 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:

- 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 Konkan during next 24 hours.**Yellow alert Areas:**

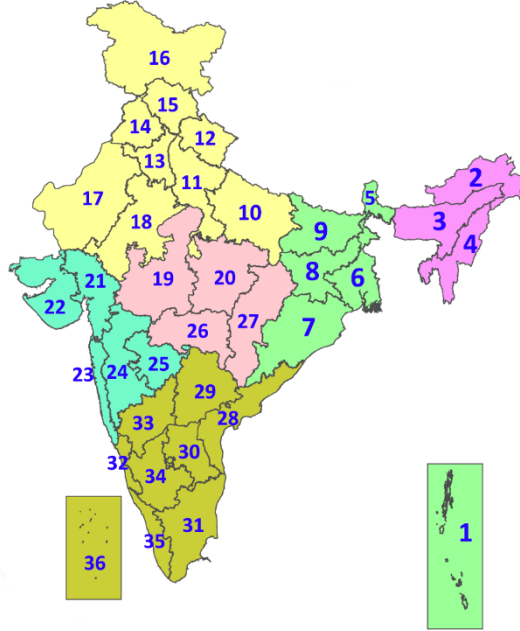
- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

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 Marathwada.
 - **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 62-87 kmph
Very Severe: Wind speed > 87 kmph

Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre

Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
Super Cyclone Strom: Wind speed > 220 kmph (> 119 knots)

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