

Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 29<sup>th</sup> March, 2025

Time of Issue: 1345 hours IST

- Subject:**
- Strong Surface winds (20-30 kmph gusting to 40 kmph) are very likely to continue over Northwest India today.**
  - Maximum temperature is likely to increase over northwest India by 4-6°C from 30<sup>th</sup> March to 02<sup>nd</sup> April.**
  - Hailstorm activity associated with thunderstorm is very likely over Madhya Pradesh, Maharashtra, North Interior Karnataka on 01<sup>st</sup> & 02<sup>nd</sup> April.**

**i. Realised weather during past 24 hours till 0830 hours IST of today, the 29<sup>th</sup> March 2025 (Annexure I):**

- ❖ **Squally/Gusty winds** prevailed at isolated locations over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh.
- ❖ **For more details of realised weather, kindly refer Annexure I**

**Temperature:**

- ❖ Temperature observations during past 24 hours till 0830 hours IST of today are provided in **Annexure II**.

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

- ❖ **Strong Surface winds (20-30 kmph gusting to 40 kmph)** very likely at isolated places Northwest India on 29<sup>th</sup> March.
- ❖ A Upper air cyclonic circulation lies over northeast Assam in lower tropospheric levels and jet core lies over the same region in upper tropospheric level. Under its influence:
  - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm, lightning** likely over Arunachal Pradesh on 29<sup>th</sup> March.
  - ✓ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ Under the influence of trough and wind confluence over Central and adjoining parts of Maharashtra in lower tropospheric levels:
  - ✓ **Isolated to scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-60 kmph)** likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat State, Rayalaseema on 01<sup>st</sup> & 2<sup>nd</sup> April; over Maharashtra state, Tamilnadu Puducherry & Karaikal, Kerala & Mahe, Karnataka, Coastal Andhra Pradesh & Yanam during 31<sup>st</sup> March to 02<sup>nd</sup> April.
  - ✓ **Isolated to scattered** light/moderate rainfall accompanied with **hailstorm** likely over West Madhya Pradesh, Vidarbha, Madhya Maharashtra, Marathawada, North Interior Karnataka on 01<sup>st</sup> & 2<sup>nd</sup>; East Madhya Pradesh, Coastal Karnataka on 02<sup>nd</sup> April.

## Temperature Forecast:

- ❖ No significant change in maximum temperatures over central India during next 3 days and fall by 2-3°C subsequent days.
- ❖ Gradual fall in maximum temperatures by 2-4°C likely over Uttar Pradesh during next 24 hours and rise by 4-6°C subsequent 2-5 days.
- ❖ No significant change in maximum temperatures over east India during next 5 days.
- ❖ No significant change in maximum temperatures over Maharashtra region during next 2 days and fall by 2-3°C subsequent days.
- ❖ Rise in maximum temperature by 2-3°C likely over Gujarat State during next 5 days.
- ❖ No significant change in maximum temperatures over peninsular India during next 5 days

## Heat wave and Hot & Humid weather warning:

- ❖ Heat wave conditions very likely at isolated pockets of interior Gangetic West Bengal on 29<sup>th</sup>; Odisha on 29<sup>th</sup> & 30<sup>th</sup> March.
- ❖ Hot & humid weather conditions very likely to prevail at isolated pockets of Odisha on 29<sup>th</sup> & 30<sup>th</sup> March; Assam, Tripura during 29<sup>th</sup>-31<sup>st</sup> March; coastal areas of Gujarat during 29<sup>th</sup> March to 02<sup>nd</sup> April.

## iv. Weather conditions and forecast over Delhi/NCR during 29<sup>th</sup> March to 01<sup>st</sup> April. 2025 (Annexure V)

For more details, kindly refer National Weather Bulletin:

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

## ANNEXURE I

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

- ❖ **Light/moderate Rainfall** observed at many places over Arunachal Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya, Coastal Karnataka, South Interior Karnataka, Kerala & Mahe, Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam.

## Rainfall recorded (in cm):

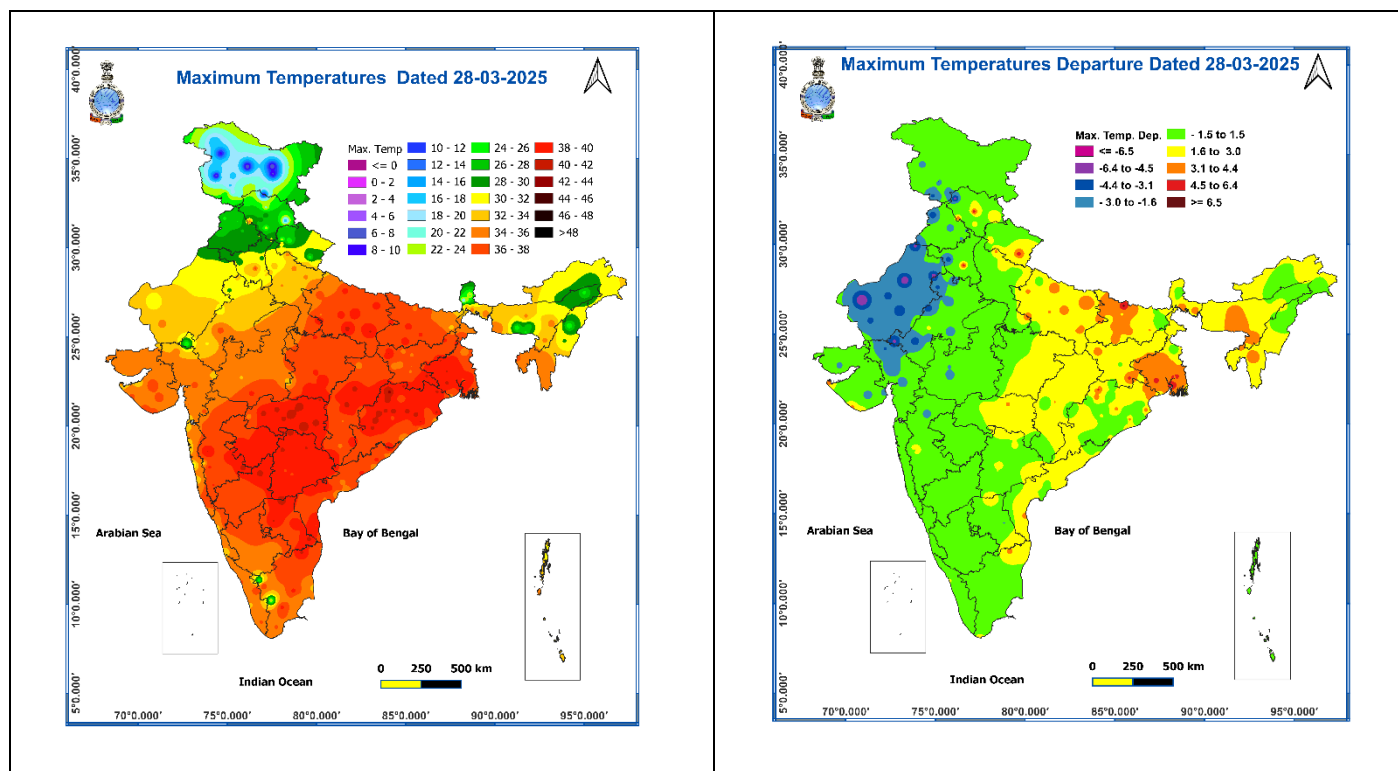
- ❖ **Arunachal Pradesh:** Hayuliang\_Circle AWS (dist Anjaw) 6, Anini\_aws (dist Dibang Valley) 3,
- ❖ **Kerala & Mahe:** Ulanad Aws (dist Pathanamthitta) 2,

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

- ❖ Yesterday, Maximum Temperatures fallen by 4-8°C over many parts of Jammu, Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh, Rajasthan, Northwest Madhya Pradesh, northeast Assam, Arunachal Pradesh; 1-3°C over many parts of East Uttar Pradesh, southwest & northeast Madhya Pradesh, Himachal Pradesh, Uttarakhand; risen by 3-7°C over Saurashtra & Kutch by 1-3°C Gujarat region, Madhya Maharashtra, interior Karnataka, Telangana, Kerala, Tamil Nadu, south coastal Andhra Pradesh, south Chhattisgarh, Odisha, west Bengal, Nicobar Islands, west Assam, Meghalaya and no significant change over rest parts of the country.
- ❖ Yesterday, Maximum Temperatures were in the range of 40-42°C over Vidarbha, southeast Uttar Pradesh, Chhattisgarh, Interior Odisha, Western parts of Gangetic West Bengal, southeast Jharkhand, North Telangana, Rayalaseema and 36-39°C over remaining parts of Uttar Pradesh, central, west, east and south peninsular India and 28-35°C over rest parts of the country except Kashmir and Ladakh where Temperatures are in the range of 06-16°C. Yesterday, the highest maximum temperature of 43.0°C was reported at Rajnandgaon (Chhattisgarh) & Jharsuguda (Odisha) over the country. **(Fig.1)**
- ❖ **Maximum Temperature Departures (as on 28-03-2025):** Maximum Temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over East Uttar Pradesh and Gangetic West Bengal; at a few places over Bihar and Assam & Meghalaya; at isolated places over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at many places over East Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam and Telangana; at a few places over Chhattisgarh and Lakshadweep; at isolated places over Tamil Nadu, Puducherry & Karaikal and West Uttar Pradesh. These were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over East Rajasthan; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Punjab; **below normal (-3.0°C to -1.6°C)** at a few places over Gujarat state; at isolated places over West Madhya Pradesh and near normal over rest parts of the country **(Fig. 2)**.

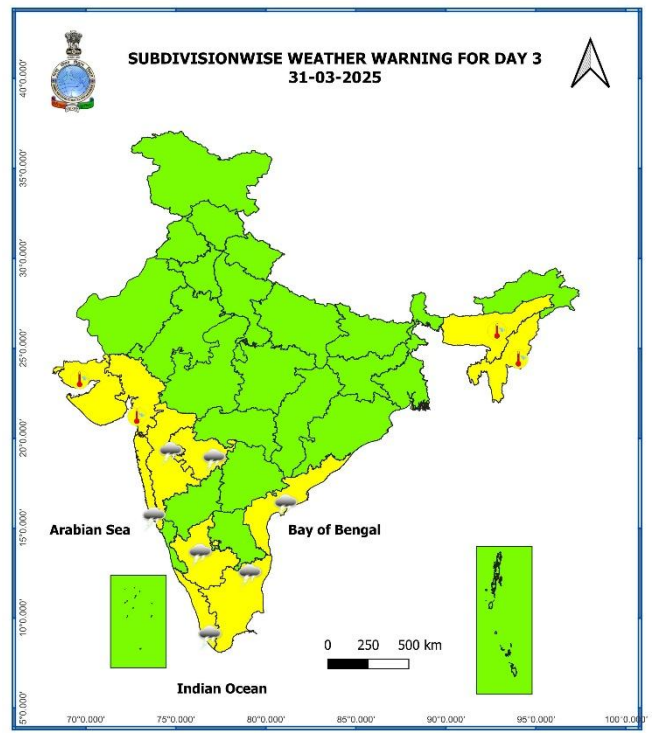
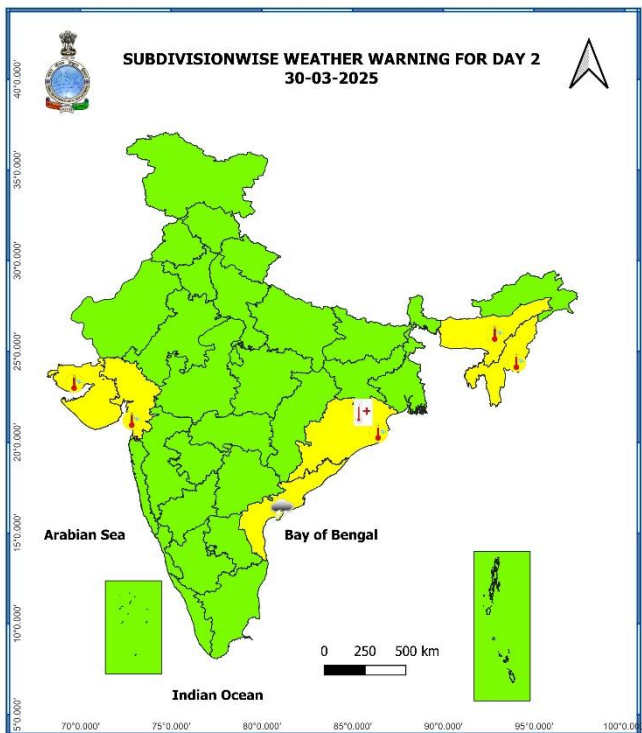
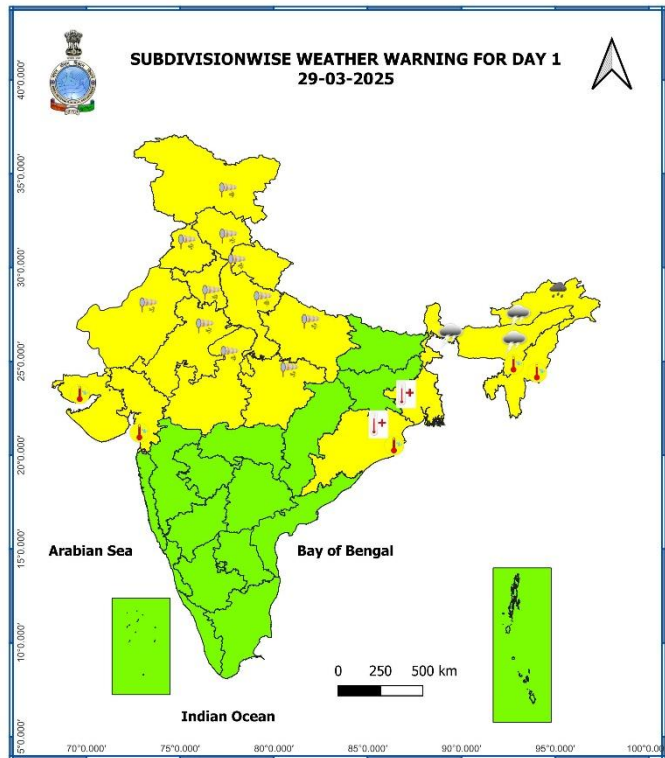
**Fig. 1: Maximum Temperatures**

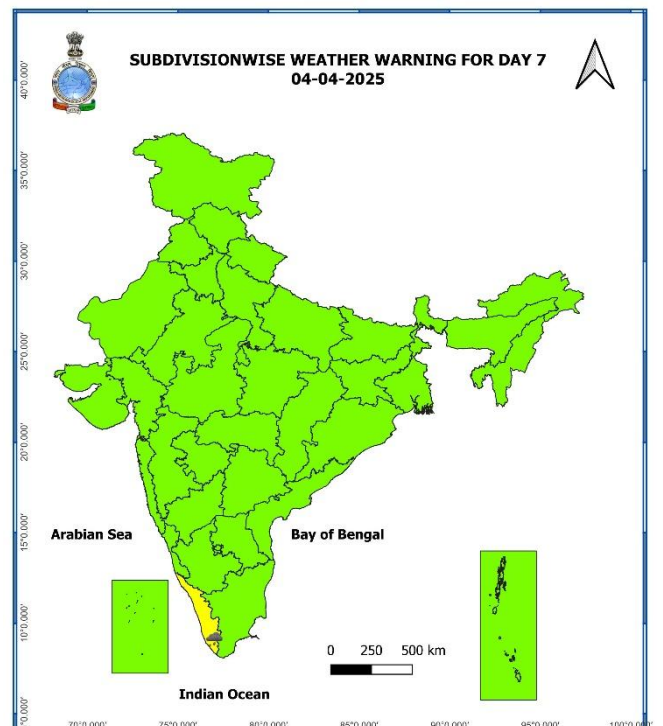
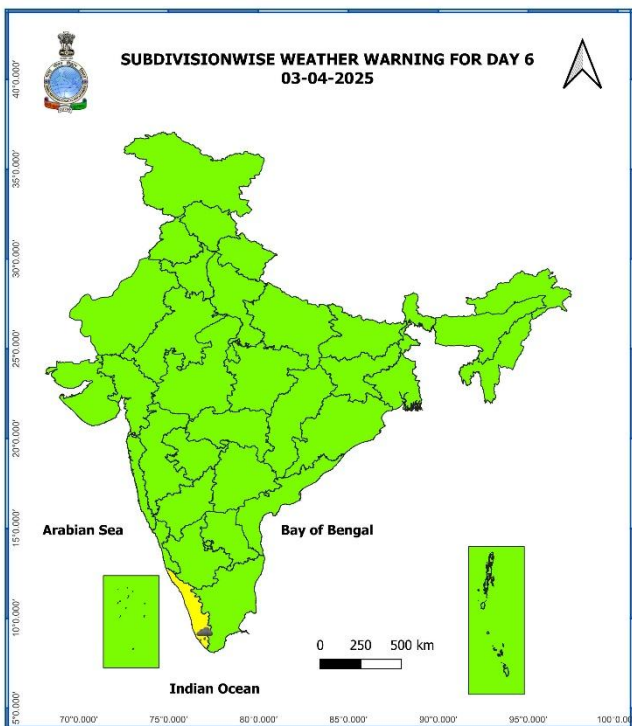
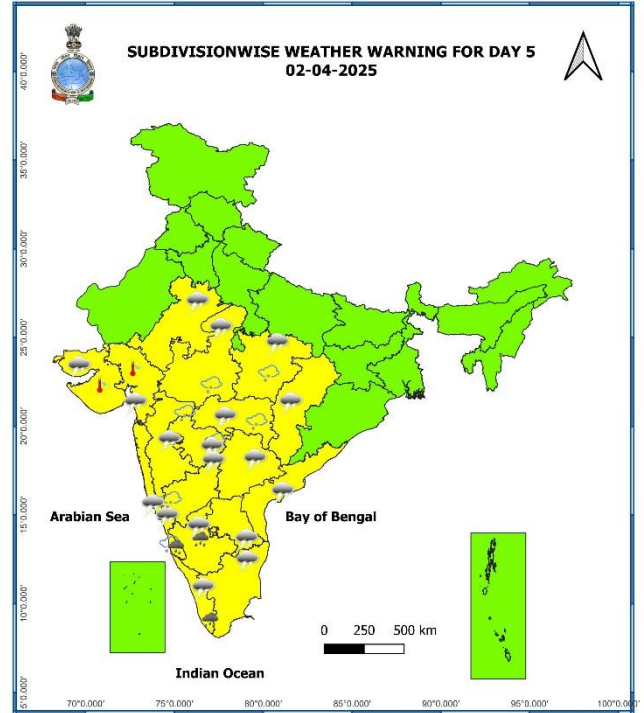
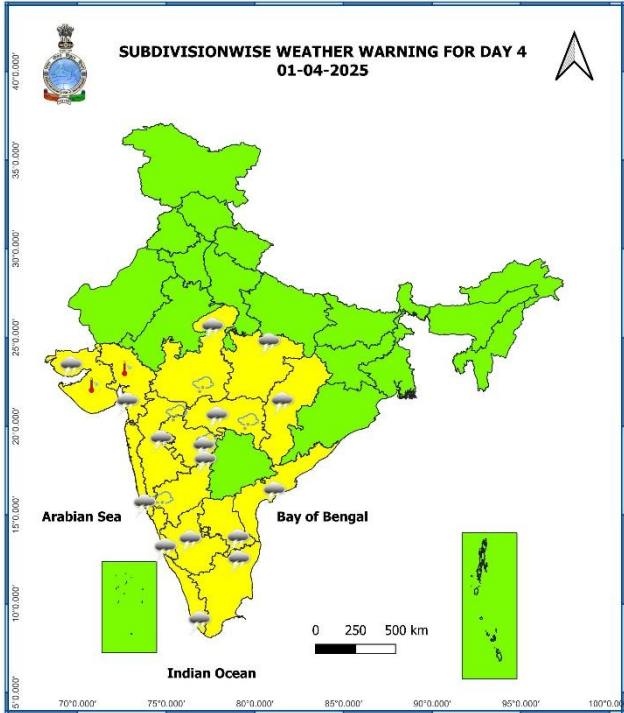
**Fig. 2: Departure of Maximum Temperatures**



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

- 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 29<sup>th</sup> Mar. to 01<sup>st</sup> Apr. 2025****Past Weather:**

There has been fall in minimum temperature upto 09°C and fall in maximum temperature upto 04°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 31 to 34°C and 10 to 15°C respectively. The minimum temperature was below normal upto 09°C and maximum temperature near normal at most places. Mainly clear sky conditions with predominant surface wind from the northwest direction with wind speeds less than 16 to 20 kmph occasionally gusty wind upto 40 kmph prevailed during the past 24 hours. Partly cloudy sky conditions with wind speed less than 16 kmph from the northwest direction prevailed over the region in the forenoon today.

**Weather Forecast:**

**29.03.2025:** Partly cloudy sky. Strong surface winds (speed 20 – 30 kmph) occasionally gusting to 40 kmph. The maximum temperature over Delhi is likely to be in the range of 28 to 31°C. The predominant surface wind will likely be from the northwest direction with a wind speed of less than 20 kmph till evening. It would decrease thereafter becoming less than 16 kmph from the northwest direction during the night.

**30.03.2025:** Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 32 to 34°C and 14 to 17°C respectively. The predominant surface wind will likely be from the northwest 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 northwest direction during the afternoon. It will decrease becoming less than 10 kmph from the northwest direction during evening and night.

**31.03.2025:** Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 34 to 36°C and 16 to 18°C respectively. The predominant surface wind will likely be from the northwest direction with a wind speed of 10-12 kmph during morning hours. The wind speed will gradually increase becoming 14-16 kmph from the northwest direction in the afternoon. It will decrease becoming less than 12 kmph from the northwest direction during evening and night.

**01.04.2025:** Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 35 to 37°C and 18 to 20°C respectively. The predominant surface wind will likely be from the northwest direction with a wind speed of 08-10 kmph during morning hours. The wind speed will gradually increase becoming 14-16 kmph from the northwest direction in the afternoon. It will decrease becoming less than 08 kmph from the north direction during evening and night.

## **Impact expected and action suggested due Heat Wave conditions over Odisha, Gangetic West Bengal on 29th & 30th March.**

### **Orange alert Areas**

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure– keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

### **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.

## **Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over central & south Peninsular India during 31st March-02nd April.**

### **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.

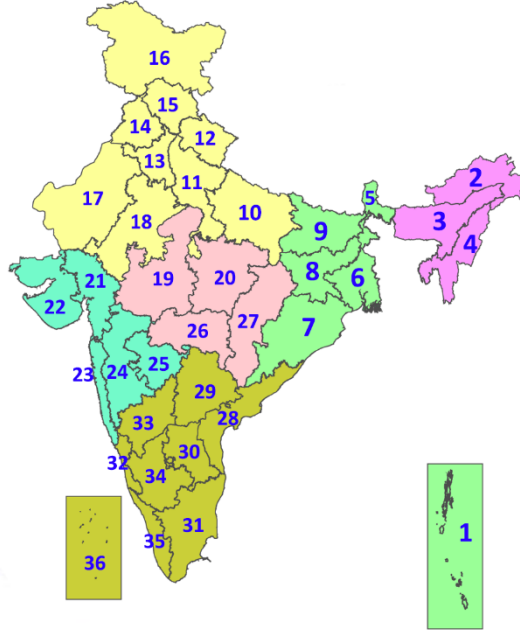


## Legends & abbreviations:

- ❖ **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

<b>Rain/ Snow *</b>	<b>Heavy:</b> 64.5 to 115.5 mm/cm * <b>Very Heavy:</b> 115.6 to 204.4 mm/cm * <b>Extremely Heavy:</b> > 204.4 mm/cm *
<b>Heat Wave</b>	<b>When maximum temperature of a station reaches <math>\geq 40^\circ\text{C}</math> for plains and <math>\geq 30^\circ\text{C}</math> for hilly regions</b> <b>(a) Based on Departure from normal</b> <b>Heat Wave:</b> Maximum Temperature Departure from normal $4.5^\circ\text{C}$ to $6.4^\circ\text{C}$ . <b>Severe Heat Wave:</b> Maximum Temperature Departure from normal $\geq 6.5^\circ\text{C}$ <b>(b). Based on Actual maximum temperature</b> <b>Heat Wave:</b> When actual maximum temperature $\geq 45^\circ\text{C}$ . <b>Severe Heat Wave:</b> When actual maximum temperature $\geq 47^\circ\text{C}$ <b>(c). Criteria for heat wave for coastal stations</b> When maximum temperature departure is $> 4.5^\circ\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ\text{C}$
<b>Warm Night</b>	<b>When maximum temperature remains <math>40^\circ\text{C}</math></b> <b>Warm Night:</b> When minimum temperature departure $4.5^\circ\text{C}$ to $6.4^\circ\text{C}$ . <b>Severe Warm Night:</b> When minimum temperature departure $> 6.4^\circ\text{C}$ .
<b>Cold Wave</b>	<b>When minimum temperature of a station <math>\leq 10^\circ\text{C}</math> for plains and <math>\leq 0^\circ\text{C}</math> for hilly regions.</b> <b>(a). Based on departure</b> <b>Cold Wave:</b> Minimum Temperature Departure from normal $-4.5^\circ\text{C}$ to $-6.4^\circ\text{C}$ . <b>Severe Cold Wave:</b> Minimum Temperature Departure from normal $\leq -6.5^\circ\text{C}$ <b>(b) Based on actual Minimum Temperature (for Plains only)</b> <b>Cold Wave :</b> When Minimum Temperature is $\leq 4.0^\circ\text{C}$ <b>Severe Cold Wave:</b> When Minimum Temperature is $\leq 2.0^\circ\text{C}$ <b>(c) For Coastal Stations</b> When Minimum Temperature departure is $\leq -4.5^\circ\text{C}$ & actual Minimum Temperature is $\leq 15^\circ\text{C}$
<b>Cold Day</b>	<b>When minimum temperature of a station <math>\leq 10^\circ\text{C}</math> for plains and <math>\leq 0^\circ\text{C}</math> for hilly regions</b> <b>Based on departure</b> <b>Cold Day:</b> Maximum Temperature Departure from normal $-4.5^\circ\text{C}$ to $-6.4^\circ\text{C}$ . <b>Severe Cold Day:</b> Maximum Temperature Departure from normal $\leq -6.5^\circ\text{C}$
<b>Fog</b>	<b>Phenomenon of small droplets suspended in air and the horizontal visibility <math>&lt; 1\text{km}</math></b> <b>Moderate Fog:</b> When the visibility between 500-200 metres <b>Dense Fog:</b> when the visibility between 50- 200 metres <b>Very Dense Fog:</b> when the visibility $< 50$ metres
<b>Thunderstorm</b>	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
<b>Dust/Sand Storm</b>	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
<b>Frost</b>	<b>Ice deposits on ground</b> Air temperature $\leq 4^\circ\text{C}$ ( over Plains)
<b>Squall</b>	<b>A strong wind that rises suddenly, lasts for atleast 1 minute.</b> <b>Moderate:</b> Wind speed 52-61 kmph <b>Severe:</b> Wind speed 62-87 kmph <b>Very Severe:</b> Wind speed $> 87$ kmph
<b>Sea State</b>	<b>Effect of various waves in the sea over specific area</b> <b>Rough to very rough:</b> Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre <b>High to very high:</b> Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre <b>Phenomenal:</b> Wind speed $> 117$ kmph ( $> 63$ knots) & Wave height $> 14$ metre
<b>Cyclone</b>	<b>Cyclonic Storm:</b> Wind speed 62-87 kmph (34-47 knots) <b>Severe Cyclonic Storm:</b> Wind speed 88-117 kmph (48-63 knots) <b>Very Severe Cyclonic Storm:</b> Wind speed 118-165 kmph (64 - 89 knots) <b>Extremely Severe Cyclonic Storm:</b> Wind speed 166-220 kmph (90 -119 knots) <b>Super Cyclone Strom:</b> 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  $3^\circ\text{C}$  above normal along with the above normal relative humidity.