

Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 10<sup>th</sup> March, 2025

Time of Issue: 1330 hours IST

**Subject: i) Heat wave spell likely over Gujarat State during 10th-12th; Southwest Rajasthan on 11th & 12th; Vidarbha during 11th-13th; Odisha on 13th & 14th March, 2025.**

**ii) West spell likely to continue over Western Himalayan region and Arunachal Pradesh during 10<sup>th</sup>-16<sup>th</sup> and over plains of Northwest India from 12<sup>th</sup> to 15<sup>th</sup> March, 2025.**

**i. Realised weather during past 24 hours till 0830 hours IST of today, the 10<sup>th</sup> March 2025:**

- ❖ Light to moderate **Rainfall/Snowfall** occurred at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Arunachal Pradesh; Light to moderate rainfall at many places over Andaman & Nicobar Islands; Isolated light rainfall over Assam, Kerala.
- ❖ **Heat Wave** has been recorded at isolated places over Saurashtra & Kutch.
- ❖ **For more details of realised weather, kindly refer Annexure I**

**Temperature:**

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

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

- ❖ The **Western Disturbance** seen as a cyclonic circulation over West Iran in middle & upper tropospheric levels. Under its influence;
  - ✓ **Scattered to fairly widespread** light/moderate rainfall/snowfall accompanied with **thunderstorm, lightning** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 10<sup>th</sup> March.
  - ✓ **Isolated heavy rainfall/snowfall very likely over** Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 10<sup>th</sup> March.
- ❖ A fresh Western Disturbance is likely to affect northwest India from the night of 12<sup>th</sup> March, 2025. Under its influence;
  - ✓ **fairly widespread to widespread light/moderate rainfall/snowfall accompanied with thunderstorm & lightning** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh during 12<sup>th</sup> - 14<sup>th</sup> March; **Scattered light/moderate rainfall/snowfall accompanied with thunderstorm & lightning** over Uttarakhand during the same period.
  - ✓ **Isolated heavy rainfall/snowfall very likely over** Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 13<sup>th</sup> & 14<sup>th</sup>; Himachal Pradesh on 14<sup>th</sup> March.
  - ✓ Isolated light/moderate rainfall **accompanied with thunderstorm & lightning** likely over Punjab, Haryana, Uttar Pradesh, Rajasthan on 13<sup>th</sup> & 14<sup>th</sup> march.
- ❖ A **cyclonic circulation** lies over central Assam in lower tropospheric levels. Under its influence,
  - ✓ **Isolated light/moderate rainfall/snowfall** likely over Arunachal Pradesh on 10<sup>th</sup>. It is likely to increase to **Scattered to fairly widespread** light/moderate rainfall/snowfall accompanied with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 11<sup>th</sup>-14<sup>th</sup>, with **gusty winds increasing to (speed 40-50 kmph) over Assam & Meghalaya on 12<sup>th</sup>**; with **thunderstorm & lightning** over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim during 11<sup>th</sup>-13<sup>th</sup> March.
  - ✓ **Isolated Heavy rainfall** likely over Arunachal Pradesh during 11<sup>th</sup>-14<sup>th</sup>; Assam & Meghalaya on 12<sup>th</sup> & 13<sup>th</sup> March.

- ❖ Under the influence of easterly wave activity,
  - ✓ **Scattered to fairly widespread** light/moderate rainfall accompanied with **thunderstorm & lightning** likely over Tamilnadu, Puducherry & Karaikal during 10<sup>th</sup>-12<sup>th</sup>; Kerala & Mahe, Lakshadweep during 11<sup>th</sup>-13<sup>th</sup>; Isolated light/moderate rainfall accompanied with **thunderstorm & lightning** likely over South Interior Karnataka during 11<sup>th</sup>-13<sup>th</sup> March.
  - ✓ **Isolated heavy to very heavy rainfall likely over south Tamil Nadu on 11<sup>th</sup> and heavy rainfall over Tamilnadu Puducherry & Karaikal and Kerala & Mahe on 11<sup>th</sup> & 12<sup>th</sup> March.**
  - ✓ Scattered to Fairly widespread light to moderate rainfall likely over Andaman & Nicobar Islands during next 7 days.

#### Temperature Forecast:

##### Forecast of temperature:

##### Maximum temperature:

- ❖ Gradual rise in maximum temperatures by 2-3°C likely over plains of Northwest India during next 3 days and fall by 2-4°C thereafter.
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Central India during next 3 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures likely over Gujarat State during next 3 days and fall by 2-3°C during subsequent 3 days.
- ❖ Gradual rise in maximum temperatures by 3-4°C likely over East India and by 2-4°C over Maharashtra and Telangana during next 5 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

##### Hot & Humid weather warning:

- ❖ **Hot and humid weather** very likely to prevail over Kerala & Mahe on 10<sup>th</sup>; Konkan & Goa on 10<sup>th</sup> & 11<sup>th</sup> and over Coastal Karnataka on 11<sup>th</sup> & 12<sup>th</sup> March.

##### Heat Wave Warning:

- ❖ **Heat wave** very likely to prevail over Gujarat State during 10<sup>th</sup>-12<sup>th</sup>; Southwest Rajasthan on 11<sup>th</sup> & 12<sup>th</sup>; Vidarbha during 11<sup>th</sup>-13<sup>th</sup>; Odisha on 13<sup>th</sup> & 14<sup>th</sup> March.

##### Fishermen Warnings:

- ❖ Day 1 (10<sup>th</sup> march to 11<sup>th</sup> march): **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over many parts of southwest Bay of Bengal; adjoining southeast Bay of Bengal, along and off Sri Lanka coast, gulf of Mannar and adjoining Comorin area. Fishermen are advised not to venture into these areas.
- ❖ Day 2 (11<sup>th</sup> march to 12<sup>th</sup> march): **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over along and off south Kerala coast and adjoining Lakshadweep area, Comorin area, gulf of Mannar, along and off south Tamil Nadu coast. Fishermen are advised not to venture into these areas.
- ❖ Day 3 (12<sup>th</sup> march to 13<sup>th</sup> march): **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over along and off south Kerala coast and adjoining Lakshadweep, Maldives; Comorin areas. Fishermen are advised not to venture into these areas.

### iii. Weather conditions and forecast over Delhi/NCR during 10<sup>th</sup> March to 13<sup>th</sup> March. 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:

### Rainfall/snowfall recorded (in cm)

- ❖ **Andaman & Nicobar Islands:** Hut Bay (dist South Andaman) 1, Iaf Carnicobar (dist Nicobar) 1;
- ❖ **Kerala & Mahe:** Chavara Aws (dist Kollam) 1

## ANNEXURE II

- ❖ During the past 24 hours, maximum temperatures had fallen by 1-2°C at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Tamilnadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam. It had risen by 1-3°C at many places over Uttar Pradesh, Madhya Pradesh; at some parts over Bihar, Odisha, Gangetic West Bengal, Gujarat State, Kerala & Mahe and Northeast India.
- ❖ Maximum temperatures were in the range greater than 39°C at isolated places over Gujarat State, Maharashtra state, Southwest Rajasthan and Rayalaseema and in the range of 35-39°C at many places over interior Maharashtra, Gujarat Region and Kutch, Karnataka, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Tamilnadu Puducherry & Karaikal, Rajasthan, West Madhya Pradesh, Odisha. Yesterday, the highest **maximum temperature of 41.1°C** was reported at **Rajkot (Saurashtra & Kutch)** over the country.
- ❖ Maximum temperatures were **Markedly above normal (5.1°C or more)** at many places over Saurashtra & Kutch; at isolated places over Gujarat Region and Rajasthan; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit Baltistan-Muzaffarabad, Himachal Pradesh; at isolated places over West Madhya Pradesh, Konkan & Goa; **above normal (1.6°C to 3.0°C)** at most places over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha, North Interior Karnataka; at a few places over Uttarakhand, Chhattisgarh; at isolated places over East Uttar Pradesh, Jharkhand, Odisha, Telangana. These were **below normal (-3.0°C to -1.6°C)** at isolated places over Sub-Himalayan West Bengal & Sikkim and near normal over rest parts of the country.

Fig. 1: Maximum Temperatures

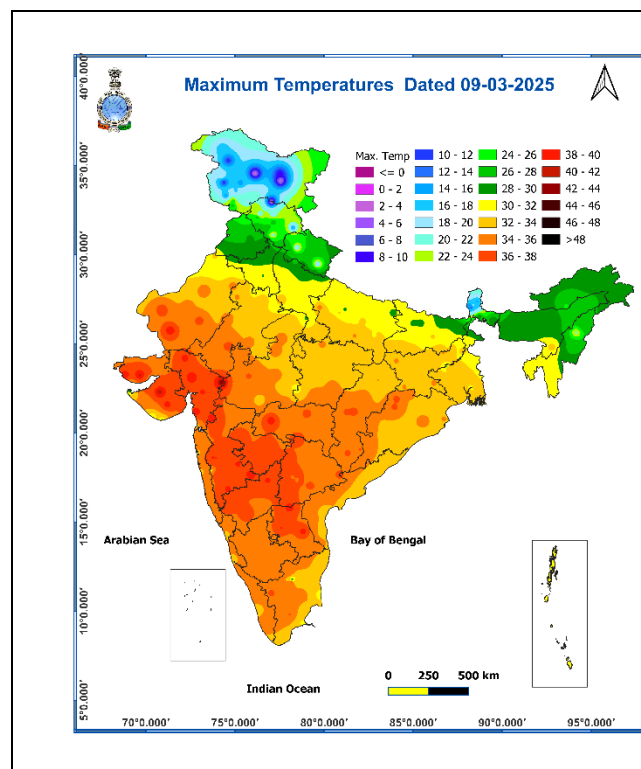
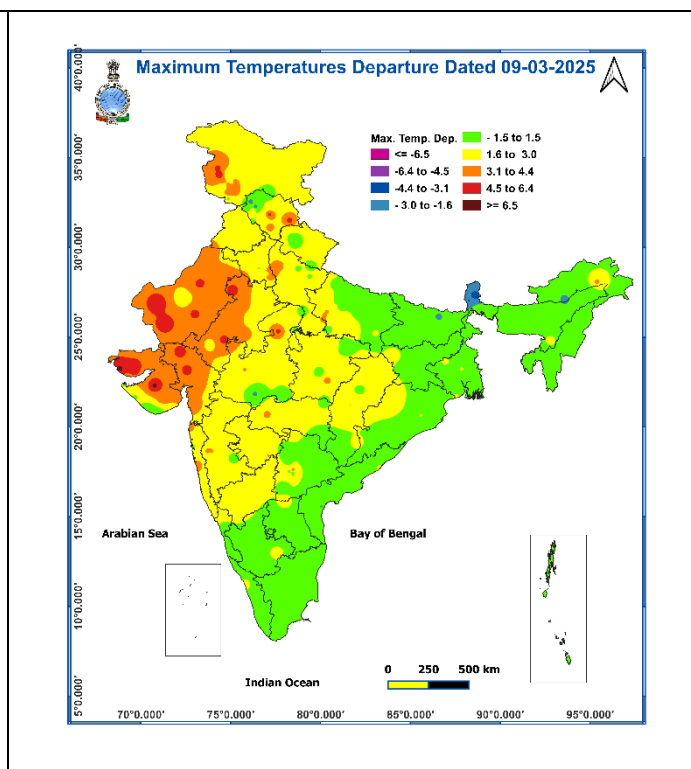
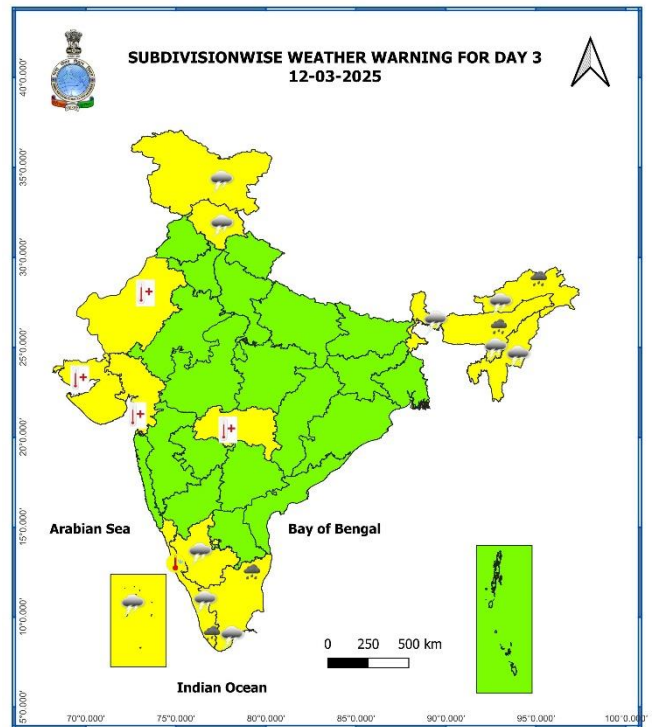
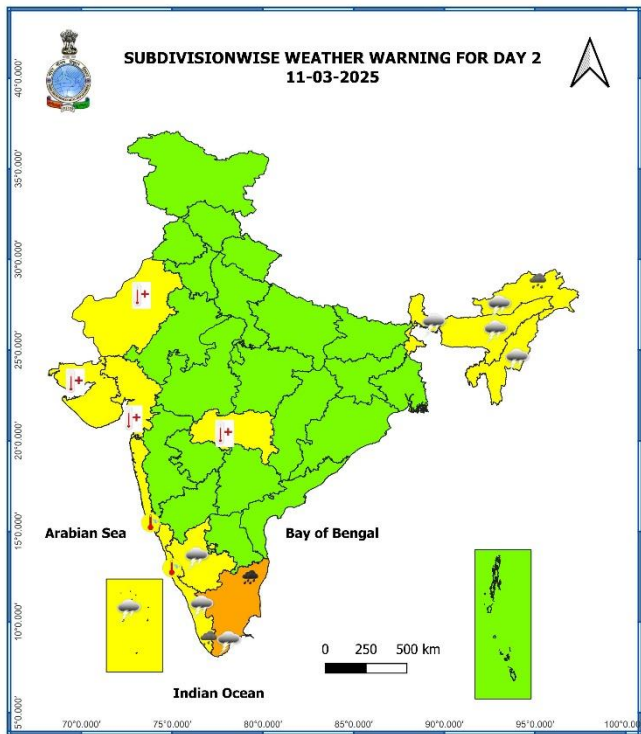
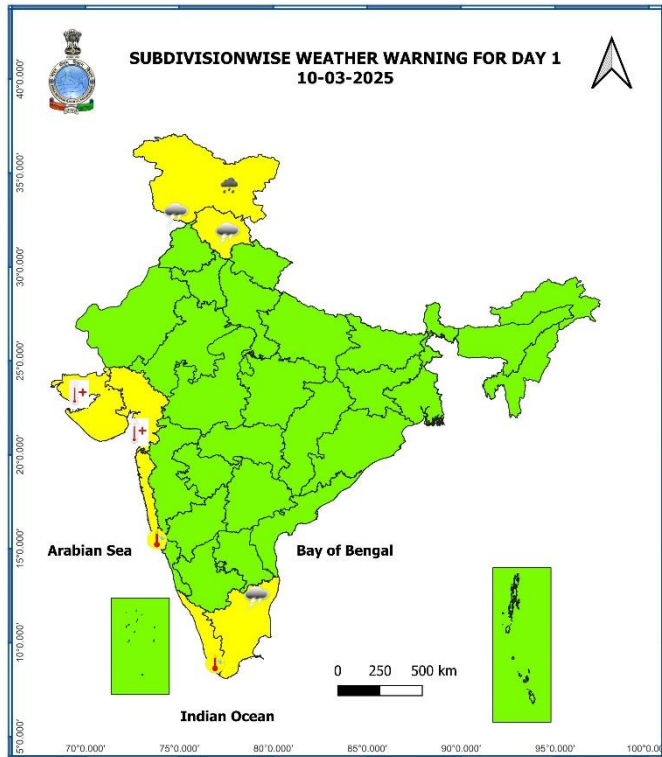


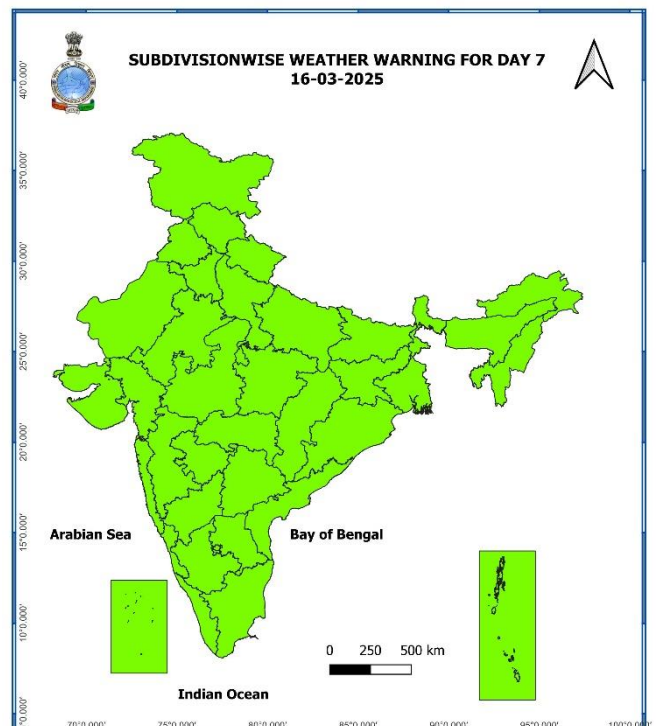
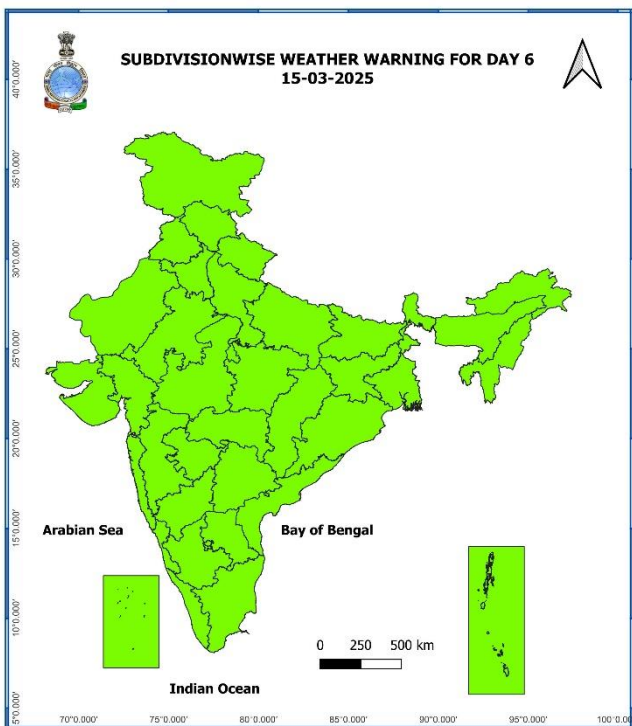
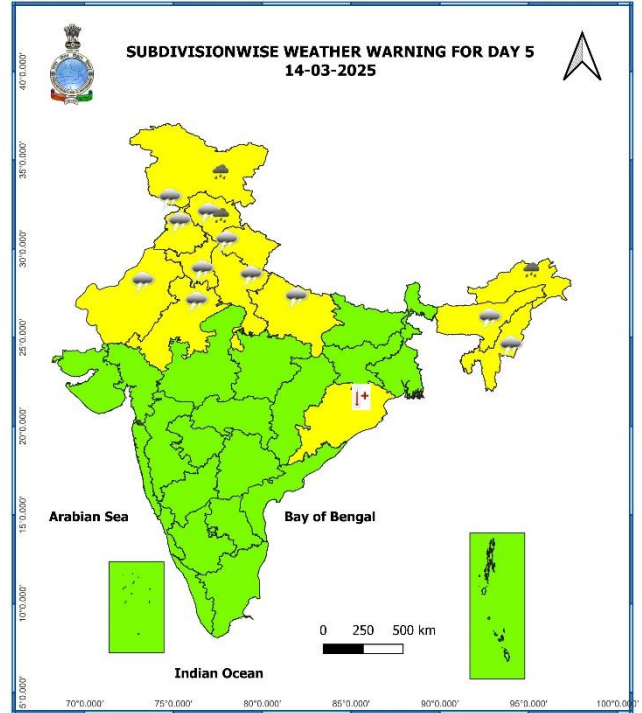
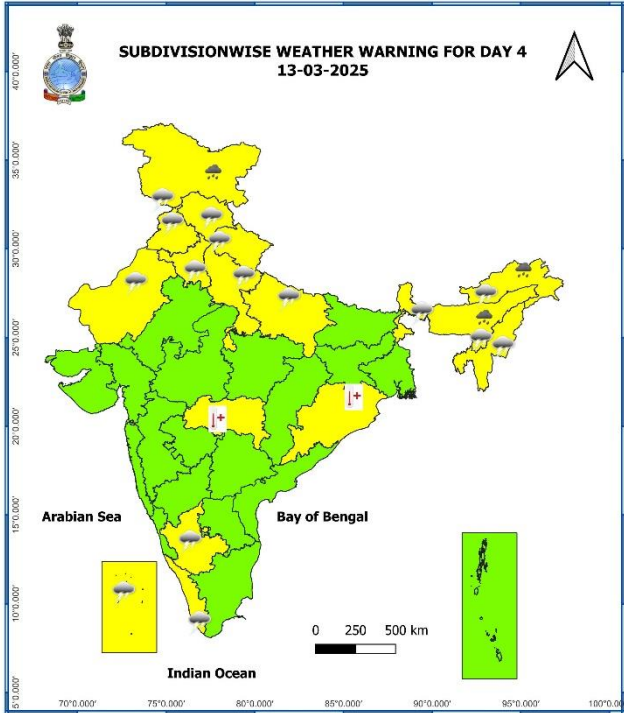
Fig. 2: Departure of Maximum Temperatures



7 Days Rainfall Forecast								
S. No.	Subdivision	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	ISOL	SCT	SCT	FWS	FWS	SCT
2	ARUNACHAL PRADESH	ISOL	FWS	FWS	FWS	SCT	SCT	SCT
3	ASSAM & MEGHALAYA	DRY	SCT	FWS	FWS	SCT	SCT	SCT
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY	ISOL	SCT	FWS	SCT	SCT	ISOL
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	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	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
12	UTTARAKHAND	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
14	PUNJAB	ISOL	DRY	ISOL	ISOL	ISOL	ISOL	DRY
15	HIMACHAL PRADESH	SCT	ISOL	SCT	FWS	FWS	FWS	FWS
16	JAMMU & KASHMIR AND LADAKH	WS	SCT	FWS	WS	WS	WS	FWS
17	WEST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
19	WEST MADHYA PRADESH	DRY	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	ISOL	ISOL	DRY	DRY	DRY	DRY
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	FWS	SCT	ISOL	ISOL	ISOL	ISOL
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	ISOL	ISOL	DRY	DRY	DRY	DRY
35	KERALA & MAHE	ISOL	FWS	SCT	ISOL	ISOL	ISOL	SCT
36	LAKSHADWEEP	DRY	WS	FWS	SCT	DRY	DRY	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 10<sup>th</sup> Mar. to 13<sup>th</sup> Mar. 2025****Past Weather:**

There has been a rise in minimum and maximum temperatures upto 2 - 3°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi are in the range of 31 to 33°C and 15 to 19°C respectively. The minimum temperature was above normal upto 3°C and maximum temperature was above normal upto 4°C at most places. Mainly clear sky conditions with predominant surface wind from the southeast direction with wind speeds less than 10 to 12 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind speed less than 14 kmph from the southeast direction prevailed over the region in the forenoon today.

**Weather Forecast:**

**10.03.2025:** Partly cloudy sky. The maximum temperature over Delhi is likely to be in the range of 32 to 34°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 12 kmph till evening. It would decrease thereafter becoming less than 06 kmph from the east direction during the night.

**11.03.2025:** Partly cloudy sky. Mist likely in the morning. Strong surface winds (speed 20-30 kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 33 to 35°C and 16 to 18°C respectively. The predominant surface wind will likely be from the east direction with a wind speed of 04-06 kmph during morning hours. The wind speed will gradually increase thereafter becoming, 12-14 kmph from the northwest direction during the afternoon. It will decrease becoming less than 10 kmph from the northwest direction during evening and night.

**12.03.2025:** Partly cloudy sky. Mist likely in the morning. Strong surface winds (speed 20-30 kmph). The maximum and minimum temperatures over Delhi are likely to be in the range of 32 to 34°C and 17 to 19°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 16-18 kmph from the northwest direction in the afternoon. It will decrease becoming less than 10 kmph from the north-northwest direction during evening and night.

**13.03.2025:** Generally cloudy sky. Mist likely in the morning. Possibility of very light rain/drizzle. The maximum and minimum temperatures over Delhi are likely to be in the range of 33 to 35°C and 17 to 19°C, respectively. The predominant surface wind will likely be from the east direction with a wind speed of 06-08 kmph during morning hours. The wind speed will gradually decrease becoming 04-06 kmph from the northeast direction in the afternoon. It will increase becoming less than 10 kmph from the southeast direction during evening and night.

**Impact expected and action suggested due Heat Wave conditions over Gujarat State during 10<sup>th</sup>-12<sup>th</sup>; Southwest Rajasthan on 11<sup>th</sup> & 12<sup>th</sup>; Vidarbha during 11<sup>th</sup>-13<sup>th</sup>; Odisha on 13<sup>th</sup> & 14<sup>th</sup> March.**

**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 & Action Suggested due to heavy rainfall/ snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 10<sup>th</sup>, 13<sup>th</sup> & 14<sup>th</sup>; Himachal Pradesh on 14<sup>th</sup>; Arunachal Pradesh during 11<sup>th</sup>-14<sup>th</sup>; Assam on 12<sup>th</sup> & 13<sup>th</sup>; Tamilnadu Puducherry & Karaikal on 12<sup>th</sup>; Kerala & Mahe on 11<sup>th</sup> & 12<sup>th</sup> March and very heavy rainfall over south Tamil Nadu on 11<sup>th</sup> March.**

**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.

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

- Make provision for draining out excess water from standing crop fields and vegetables in **Arunachal Pradesh, Assam & Meghalaya, Jammu & Kashmir, Tamil Nadu and Kerala.**
- In **Gujarat, Vidarbha and West Rajasthan**, apply light and frequent irrigation to the standing crops, vegetables and orchards in the evening to protect them from heat wave.
- 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.

**Livestock and 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.

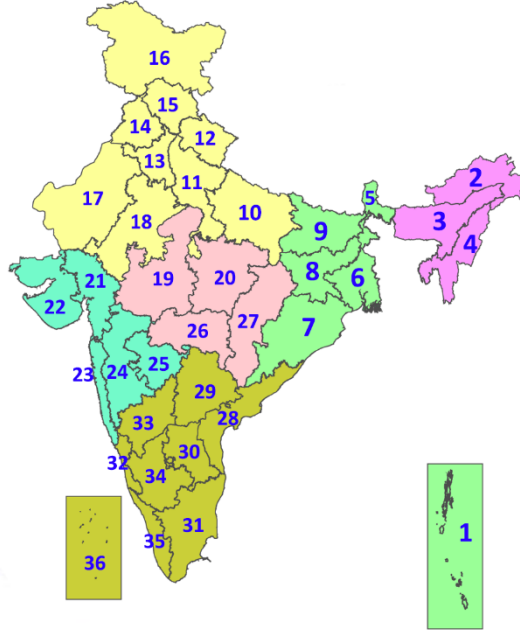


## Legends & abbreviations:

- ❖ **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

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(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 62-87 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 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.