



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 11th March 2026

Time of Issue: 1330 hours IST

**Subject: i) Heat wave to severe heat wave conditions likely to continue over Gujarat state during 11th-13th March and abating thereafter.
ii) Isolated heavy rainfall likely over Arunachal Pradesh during 12th-14th and Assam & Meghalaya during 13th-15th March.
iii) Isolated thunderstorm, lightning & gusty winds along with hailstorm over Himachal Pradesh on 11th & 12th and with isolated heavy falls over Jammu-Kashmir on today, the 11th March.
iv) A fresh western disturbance likely to affect Northwest India from 14th March, 2026.**

Realised weather during past 24 hours ending at 0830 hours IST of today, the 11th March, 2026:

- ❖ **Heat wave to severe heat wave conditions** prevailed in many places of Saurashtra & Kutch, in some places of Gujarat region and in isolated pockets over Himachal Pradesh, north Konkan; **Heat wave conditions** prevailed in isolated pockets of Vidarbha.
- ❖ **Heavy rainfall** has been recorded at isolated places over Tamil Nadu.
- ❖ **Dense to very Dense fog (visibility <50 m) conditions** prevailed in isolated pockets of East Uttar Pradesh and **dense fog (visibility 50-199 m) conditions** in isolated pockets over West Uttar Pradesh, Meghalaya.
- ❖ **Visibility Reported (in meters <200 m): East Uttar Pradesh:** Kanpur, Prayagraj; **West Uttar Pradesh:** Moradabad, Shahjahanpur; **Meghalaya:** Barapani

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

- ❖ **Maximum/day temperatures** were in the range of 38-42°C at many places over West Rajasthan, Gujarat state; at a few places over Chhattisgarh, Marathwada, Madhya Maharashtra, East Madhya Pradesh; at isolated places over East Rajasthan, West Madhya Pradesh, Vidarbha, Odisha, North Interior Karnataka, Kerala & Mahe; 35-38°C at many places over Coastal Andhra Pradesh & Yanam, Rayalaseema; at a few places over Haryana-Chandigarh-Delhi, Tamil Nadu, Puducherry & Karaikal; at isolated places over Telangana, West Uttar Pradesh. Yesterday, the highest maximum temperature of 42.0°C was reported at **Rajkot (Gujarat Region)**.
- ❖ **Maximum Temperatures/day temperatures** were markedly above normal (5.1°C or more) at most places over Saurashtra & Kutch; at many places over Gujarat Region, Himachal Pradesh, Jammu & Kashmir-Ladakh, Rajasthan, Punjab, Haryana Chandigarh; at a few places over Delhi, Madhya Pradesh, Arunachal Pradesh; at isolated places over Uttarakhand, West Uttar Pradesh, Assam, Sub-Himalayan West Bengal & Sikkim, East Uttar Pradesh, north Konkan, Vidarbha, Chhattisgarh & Telangana; appreciably above normal (3.1°C to 5.0°C) at isolated places over Odisha, Madhya Maharashtra, Marathwada, Kerala & Mahe; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka; at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Coastal Andhra Pradesh & Yanam, Jharkhand, North Interior Karnataka and near normal over rest parts of the country.
- ❖ **Minimum/night temperatures** were in the range of 14-18°C over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Pradesh, Sikkim, Assam & Meghalaya, Madhya Maharashtra, South Interior Karnataka. They were in the range of 18-22°C over remaining parts of the plains of the country, except Bihar, Gangetic West Bengal, Odisha, Konkan & Goa, Gujarat State, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamil Nadu, Andaman & Nicobar Islands and Lakshadweep, where they are in the range of 22-27°C. The lowest minimum temperature of 9.2°C was observed at **Pali AWS (Rajasthan)** over the plains of India.
- ❖ **Minimum/night Temperature** were markedly above normal (5.1°C or more) over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, West Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Odisha, Gujarat State; appreciably above normal (3.1°C to 5.0°C) over Punjab, Haryana, Chandigarh & Delhi, remaining parts of Rajasthan, Madhya Pradesh, Jharkhand, Chhattisgarh, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) over Maharashtra, Kerala & Mahe and below normal (-3.0°C to -1.6°C) at isolated places over Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema and near normal over rest parts of the country.

Weather Systems, Forecast and Warnings (refer to ANNEXURE I & II):

- ❖ An upper air **cyclonic circulation** lies over North Pakistan & adjoining Jammu & Kashmir in lower tropospheric levels.
- ❖ The **Western Disturbance** as a trough in middle level tropospheric westerlies runs roughly along Long. 52°E to the north of Lat. 28°N.
- ❖ An upper air **cyclonic circulation** lies over central Pakistan & neighbourhood in lower tropospheric levels.
- ❖ A **trough** runs from Bihar to north Chhattisgarh in lower tropospheric levels.
- ❖ Another **trough** runs from west Assam to Gangetic West Bengal in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over Central Assam & neighbourhood in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over southwest Bay of Bengal and adjoining north Sri Lanka in lower tropospheric levels.
- ❖ **Subtropical westerly Jet Stream** with core winds of the order of 90 knots at 12.6 km above mean sea level continues to prevail over Northwest India.
- ❖ A fresh **Western Disturbance** is likely to affect northwest India from 14th March 2026.

Under the influence of above system, the following weather is likely:

Northwest India:

- ✓ **Scattered to fairly widespread** light to moderate rainfall/snowfall likely over Jammu-Kashmir-Ladakh on 11th & 12th and decrease to **isolated to scattered** light rainfall/snowfall during 13th-17th March. **Isolated to scattered** light rainfall/snowfall also likely over Himachal Pradesh and Uttarakhand during 11th-17th March. **Thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Jammu-Kashmir-Ladakh on 11th & 12th and over Himachal Pradesh on 11th, 12th, 14th & 15th and Uttarakhand on 11th, 12th & 15th March.
- ✓ **Isolated** light rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** also likely over Punjab, Haryana, Chandigarh during 14th-16th; Uttar Pradesh on 15th & 16th and Rajasthan on 14th & 15th March.
- ✓ Isolated **heavy rainfall/snowfall** very likely over Jammu-Kashmir-Ladakh on 11th March.
- ✓ Isolated **hailstorm** very likely over Himachal Pradesh on 11th & 12th March.

Northeast India:

- ✓ **Scattered to fairly widespread** light/moderate rainfall with **thunderstorm & lightning** likely over Northeast India during 11th-17th March; with **gusty winds speed reaching (30-40 kmph)** over Assam & Meghalaya during 13th-15th March.
- ✓ Isolated **heavy rainfall/snowfall** very likely over Arunachal Pradesh during 12th-14th and isolated **heavy rainfall** over Assam & Meghalaya during 13th-15th March.

East & Central India:

- ✓ **Isolated to Scattered** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Vidarbha, Chhattisgarh during 13th-15th; West Madhya Pradesh on 14th & 15th; East Madhya Pradesh on 15th; Sub-Himalayan West Bengal & Sikkim during 11th-16th; Gangetic West Bengal on 11th, 15th & 16th; Bihar on 15th & 16th; Jharkhand on 11th, 12th & during 15th-17th; Odisha on 11th, 12th & 15th March.

South Peninsular India:

- ✓ **Isolated** light/moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Telangana on 15th March.

Forecast of maximum/day temperatures:

- ❖ Gradual fall in maximum temperature by 4-6°C likely over Western Himalayan region during next 7 days & no significant change in maximum temperature likely over plains of Northwest India during next 24 hours; gradual fall by 2-4°C during subsequent 4 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures likely over Central India during next 3 days and gradual fall by 3-5°C during subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over East India during next 24 hours; gradual rise by 2-3°C during subsequent 3 days and gradual fall by 2-3°C during subsequent 3 days.
- ❖ No significant change in maximum temperatures likely over Northeast India during next 24 hours and gradual fall by 3-4°C during subsequent 4 days, no significant change thereafter for subsequent 2 days.
- ❖ Gradual fall in maximum temperature by 2-4°C likely over coastal Maharashtra during next 5 days.
- ❖ No significant change in maximum temperatures likely over interior Maharashtra during next 3 days and gradual fall by 2-3°C during subsequent 4 days.

- ❖ No significant change in maximum temperatures likely over Gujarat State during next 2 days and gradual fall by 2-4°C during subsequent 5 days.
- ❖ No significant change in maximum temperature likely over South Peninsular India during next 2 days and gradual rise by 2-3°C during subsequent 3 days, no significant change thereafter for subsequent 2 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

Heat Wave, Hot & Humid weather and Warm Night Warnings:

- ❖ **Heat wave to severe heat wave conditions** very likely in many/some places over Gujarat Region on 11th; Saurashtra & Kutch on 11th & 12th and **heat wave conditions** in isolated pockets over Gujarat Region on 12th & 13th and over Saurashtra & Kutch on 13th March.
- ❖ **Heat wave conditions** in isolated pockets over West Rajasthan on 11th; Vidarbha on 11th & 12th March.
- ❖ **Hot & humid conditions** very likely to prevail in isolated pockets over Konkan on 11th; coastal areas of Gujarat State and Kerala & Mahe during 11th-13th; Coastal Karnataka on 11th & 12th March.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Gujarat State on 11th & 12th March.

Weather conditions and forecast over Delhi/NCR during 11th-14th March, 2026 (ANNEXURE III)

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>

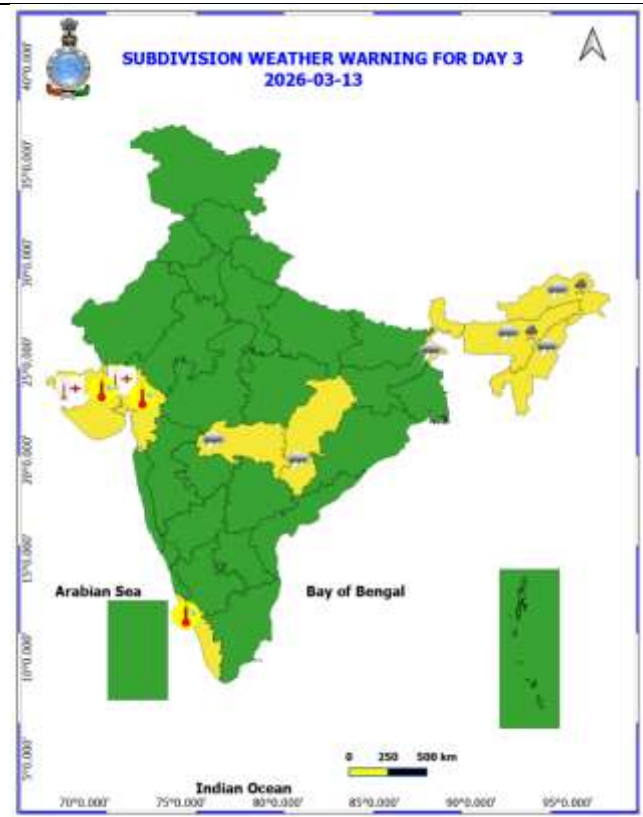
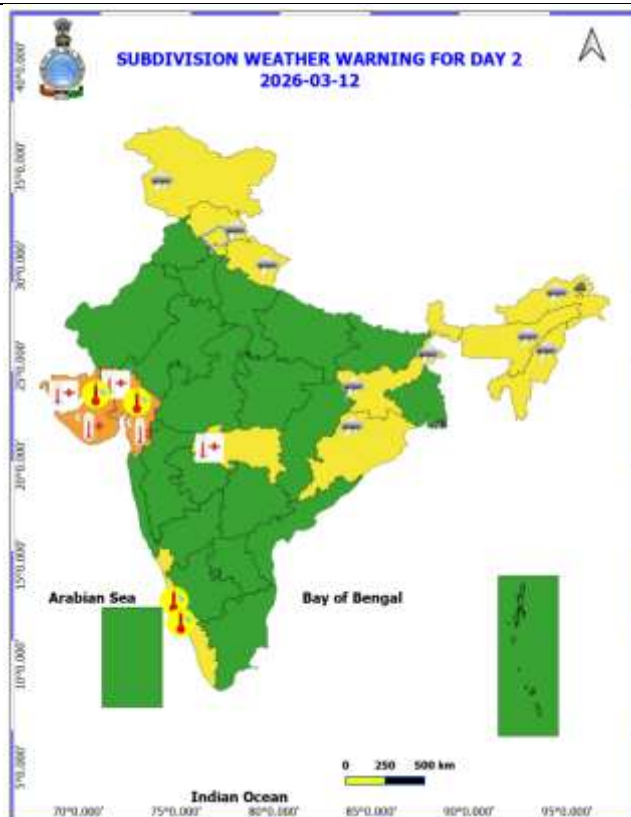
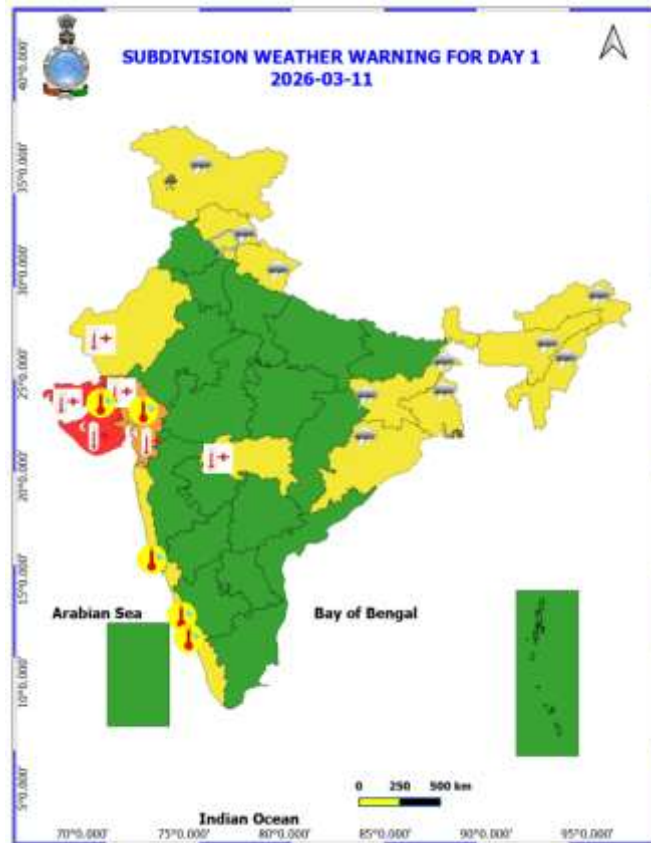
For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php>

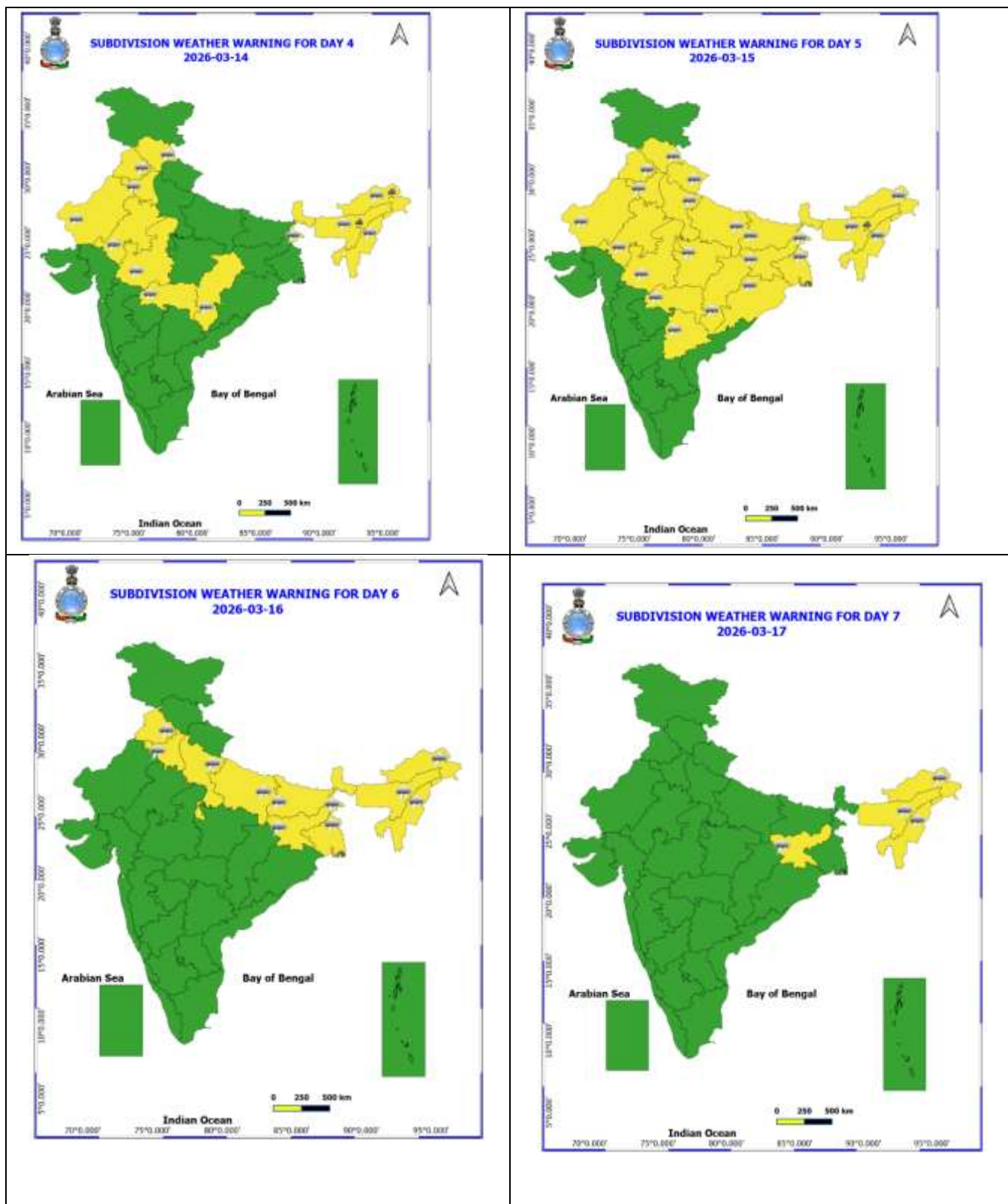
Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):

Tamil Nadu: Tuticorin Airport ARG (dist Thoothukudi) 7

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	11- Mar	12- Mar	13- Mar	14- Mar	15- Mar	16- Mar	17- Mar
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	SCT	SCT	SCT	ISOL
2	ARUNACHAL PRADESH	SCT	FWS	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEHGHALAYA	ISOL	SCT	FWS	FWS	FWS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	ISOL	FWS	FWS	SCT	FWS	FWS	ISOL
6	GANGETIC WEST BENGAL	ISOL	ISOL	DRY	DRY	SCT	SCT	ISOL
7	ODISHA	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	DRY	DRY	ISOL	SCT	ISOL
9	BIHAR	DRY	DRY	DRY	ISOL	ISOL	SCT	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	ISOL	SCT	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
12	UTTARAKHAND	ISOL	ISOL	ISOL	ISOL	SCT	SCT	ISOL
13	HARYANA, CHANDIGARH & DELHI	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
14	PUNJAB	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
15	HIMACHAL PRADESH	SCT	SCT	ISOL	SCT	FWS	ISOL	ISOL
16	JAMMU AND KASHMIR AND LADAKH	FWS	SCT	ISOL	ISOL	SCT	SCT	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
21	GUJRAT 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	ISOL	ISOL	DRY	DRY
25	MARATHWADA	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
26	VIDARBHA	DRY	DRY	ISOL	SCT	ISOL	ISOL	DRY
27	CHHATTISGARH	DRY	DRY	ISOL	ISOL	SCT	ISOL	ISOL
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	ISOL	SCT	ISOL
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
35	KERALA AND MAHE	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
36	LAKSHADWEEP	SCT	SCT	DRY	SCT	DRY	DRY	DRY

- As the lead period increases forecast accuracy decrease.





- Action may be taken based on ORANGE AND REDCOLOUR 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 districtwise MultiHazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 11th to 14th March 2026**Past Weather:**

There has been fall in minimum temperatures by 1-2°C and no large change in maximum temperatures during past 24 hours over Delhi. The maximum temperatures were in the range of 34-36°C and the minimum temperatures are 17-18°C during past 24 hours over Delhi. The minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Delhi. The maximum temperatures were markedly above normal (5.1°C or more) at most places over Delhi. South westerly surface winds speed upto 17 kmph prevailed during the daytime over Delhi. Mainly clear sky and wind reaching up to 05 kmph from the southwest direction prevailed over the region in the forenoon today.

Weather Forecast:

11.03.2026: Mainly clear sky. The maximum temperatures over Delhi are likely to be in the range of 35°C to 37°C. The maximum temperatures will be markedly above normal (5.0°C or more) at most places over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching upto 15 kmph during the afternoon hours. The wind speed will gradually decrease, becoming less than 08 kmph from the southwest direction during the evening and night.

12.03.2026: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 34°C to 36°C and 16°C to 18°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places and appreciably above normal (3.1°C to 5.0°C) at isolated places. The maximum temperature will be markedly above normal (5.0°C or more) at most places over Delhi. The predominant surface wind is associated with calm and then reaching upto less than 06 kmph from west direction during the morning hours. The wind speed will increase upto 10 kmph from the northwest direction during the afternoon. The wind speed will increase becoming less than 15 kmph from the northwest direction during the evening and night.

13.03.2026: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 33°C to 35°C and 16°C to 18°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places and appreciably above normal (3.1°C to 5.0°C) at isolated places. The maximum temperature will be markedly above normal (5.0°C or more) at most places over Delhi. The predominant surface wind is likely to be from the north direction with wind reaching upto 10 kmph during the morning hours. The wind speed will increase up to 15 kmph from the northwest direction during the afternoon. The wind speed will decrease becoming less than 12 kmph from the south direction during the evening and night.

14.03.2026: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the ranges of 33°C to 35°C and 16°C to 18°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places and appreciably above normal (3.1°C to 5.0°C) at isolated places. The maximum temperature will be markedly above normal (5.0°C or more) at most places over Delhi. The predominant surface wind is associated with calm and then reaching upto less than 06 kmph from northeast direction during the morning hours. The wind speed will increase upto 10 kmph from the northeast direction in the afternoon. The wind speed will remain upto 10 kmph from the northeast direction during the evening and night.

Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over

- ✓ **Hailstorm** very likely at isolated places over Himachal Pradesh on 11th & 12th March.
- ✓ **Isolated thunderstorm, lightning & gusty winds speed reaching (30-50 kmph)** likely over Jammu-Kashmir-Ladakh on 11th & 12th; Himachal Pradesh on 11th, 12th, 14th & 15th; Uttarakhand on 11th, 12th & 15th; Punjab, Haryana, Chandigarh during 14th-16th; Uttar Pradesh, Bihar on 15th & 16th; Rajasthan, West Madhya Pradesh on 14th & 15th; Vidarbha, Chhattisgarh, Assam & Meghalaya during 13th-15th; East Madhya Pradesh, Telangana on 15th; Sub-Himalayan West Bengal & Sikkim during 11th-16th; Gangetic West Bengal on 11th, 15th & 16th; Jharkhand on 11th, 12th & during 15th-17th; Odisha on 11th, 12th & 15th March.

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 Heat wave/severe heat wave conditions

- ❖ **Heat wave to severe heat wave conditions** very likely in many/some places over Gujarat Region on 11th, Saurashtra & Kutch on 11th & 12th and **heat wave conditions** in isolated pockets over Gujarat Region on 12th & 13th and over Saurashtra & Kutch on 13th March.
- ❖ **Heat wave conditions** in isolated pockets over West Rajasthan on 11th; Vidarbha on 11th & 12th March.

Red alert Areas

- ❖ Very high likelihood of developing heat illness and heat stroke in all ages.
- ❖ Extreme care needed for vulnerable people.

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.

Agromet advisories for likely impact of Hailstorms

- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in **Himachal Pradesh**.

Agromet advisories for likely impact of Heavy Rainfall

- In **Arunachal Pradesh**, undertake harvesting of cabbage, pea, mustard and late-maturing paddy varieties, digging of mature potatoes and shift the harvested produce to safe places.
- In **Meghalaya**, make necessary arrangements for proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and protect young seedlings from heavy rainfall. Harvest garden peas when the pods are green, tender, and fully developed, and keep the harvested pods in safer place immediately.

Likely Impact of Above normal Temperatures

- Increased evapotranspiration leading to soil moisture depletion and moisture stress, which may adversely affect crop growth, seed development and yield.
- Accelerated crop maturity, shortened grain filling duration and shrivelled grain formation, resulting in possible yield reduction in wheat crop.
- Increased moisture stress and reduced grain filling in cereals and other *rabi* crops such as *rabi* maize, sorghum and other late sown *rabi* crops (vegetative to reproductive stages).
- Flower drop, poor pod setting, premature pod drying and reduction in seed size and seed weight in oilseed and pulse crops.
- Reduced tuber bulking and early plant senescence in tuber crops such as potato.
- Flower drop, fruit sunscald and reduction in marketable yield in vegetable crops such as tomato, capsicum, cabbage and cauliflower.
- Flower drop, reduced fruit setting, premature fruit drop, fruit sunburn (or sunscald), reduction in fruit size, uneven ripening, deformities such as spongy tissue (especially in mango), along with an overall decrease in yield and quality in horticultural crops (such as mango, apple, orange, etc.).
- Increased crop water requirements and higher risk of water stress under limited irrigation conditions.
- Reduced feed intake, milk yield and egg production along with increased water requirement in livestock and poultry.

Agromet advisories for likely impact of Above normal Temperatures

- In **Gujarat**, apply light irrigation in wheat (grain filling stage), chickpea, cumin and vegetable crops in the morning and evening hours. Apply mulching with crop residues in vegetable crops to prevent heat damage and conservation of soil moisture. Protect vegetable nurseries and orchards against hot winds by physical barrier like wet gunny bag barriers of hay or sorghum.
- In **Maharashtra**, provide light and frequent irrigation during the evening or early morning hours to sapota, chilli, brinjal and tomato. Apply irrigation at frequent intervals to reduce premature fruit drop and sun scorching in mango and undertake pre-harvest bagging of mango fruits using newspaper bags to prevent sun scalding in **Konkan**. Apply irrigation in late sown *rabi* crops like wheat, groundnut, sesame, safflower, sorghum, orchards and vegetables as per requirement and use straw mulch to reduce evaporation losses in **Vidarbha**.
- In **Rajasthan**, provide protective irrigation in cumin, isabgol, mustard and gram during morning or evening hours to minimize heat stress.
- In **Punjab**, maintain optimum soil moisture through irrigation in mustard, gobhi sarson and potato. Provide irrigation to wheat at grain filling stage as required.
- In **Haryana**, provide light irrigation to mustard and gram at flowering and pod formation stages. Maintain optimum soil moisture in wheat during grain filling stage.
- In **Uttar Pradesh**, provide light irrigation in wheat (grain filling stage), mustard and gram crops during morning or evening hours to reduce adverse impacts of heat.
- In **Madhya Pradesh**, provide light and frequent irrigation in wheat and chickpea during critical stages. Complete harvesting of matured mustard during morning/evening hours and keep the produce in safe places.
- In **Chhattisgarh**, provide **light and frequent irrigation** in standing crops such as **wheat, chickpea, lentil and mustard** to minimize heat stress and maintain adequate soil moisture.
- Take appropriate action for conservation of soil moisture through mulching, proper field bunding, and avoiding unnecessary intercultivation.

Livestock / Poultry

- Provide clean, hygienic and plenty of drinking water to animals.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass.

Legends & abbreviations:

- ❖ **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; 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

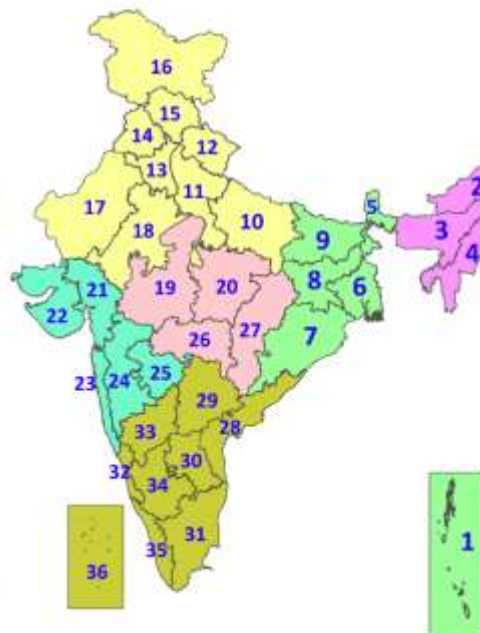
32. तटीय कर्नाटक

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)

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