

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather systems, Forecast & Warnings:

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 **heavyrainfall/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 **heavyrainfall/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

***Red color warning does not mean "Red Alert" Red color 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)

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.

*Red color warning does not mean "Red Alert" Red color 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)

Main Weather Observations:

- **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Lakshadweep; **at a few places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **at isolated places** over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Uttarakhand, Himachal Pradesh, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **Dry** over rest of the country.
- **Significant rainfall recorded (in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Tamil Nadu, Puducherry & Karaikal**: Tuticorin Airport ARG (dist Toothukudi) 7; Tuticorin (dist Toothukudi) 4; Srivaikuntam (dist Toothukudi), Ramnadu Kvk AWS (dist Ramanathapuram) 3 Each.
- **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy rain** at isolated places over Tamil Nadu, Puducherry & Karaikal.
- **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.
- **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
- **Minimum Temperature Departures (as on 11-03-2026): markedly above normal(5.1? or more)** over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, West Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Odisha, Gujarat State; appreciably above normal (3.1? to 5.0?) 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? to 3.0?) over Maharashtra, Kerala & Mahe and below normal (-3.0? to -1.6?) at isolated places over Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema and near normal over rest parts of the country. **The lowest minimum temperature** of 9.2C was reported at **Pali AWS (Rajasthan)** over the Plains of India.
- **Maximum Temperature Departures (as on 10-03-2026): markedly above normal (5.1? 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? to 5.0?) at isolated places over Odisha, Madhya Maharashtra, Marathawada, Kerala & Mahe; above normal (1.6? to 3.0?) 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. **The highest maximum temperature** of 42.0°C was reported at **RAJKOT (A) (GUJARAT)**.

*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

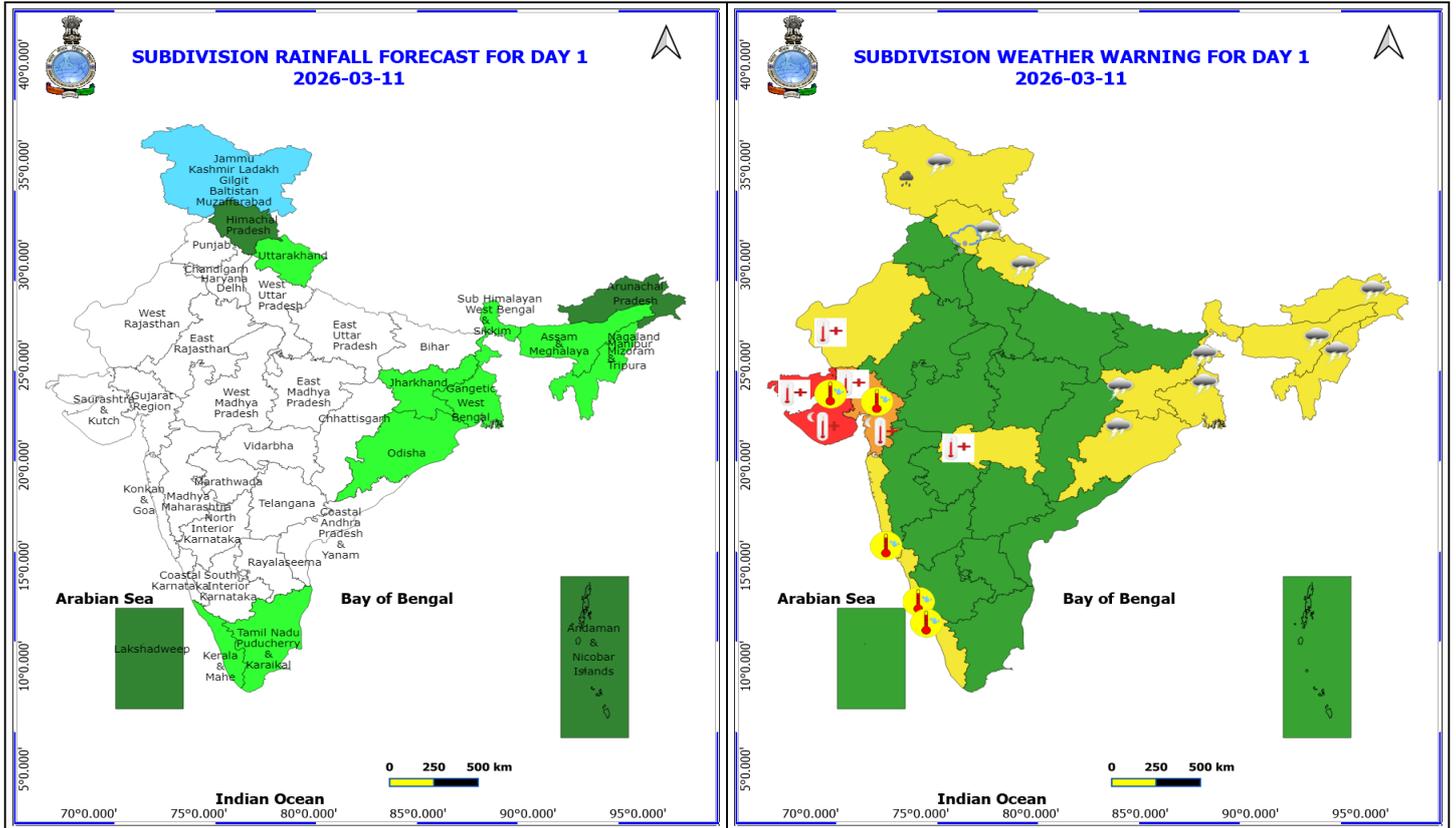
Forecast and warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit <https://mausam.imd.gov.in> or contact 011-2434-4599

(Service to the nation since 1875)

Meteorological Analysis (Based on 0830 hours IST)

- An **upper air cyclonic circulation** lies over North Pakistan & adjoining Jammu & Kashmir at 3.1 km above mean sea level
- The **Western Disturbance** as a trough in middle level tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 52°E to the north of Lat. 28°N.
- The **upper air cyclonic circulation** over central Pakistan & neighbourhood at 1.5 km above mean sea level persists.
- A **trough** runs from Bihar to north Chhattisgarh across Jharkhand at 0.9 km above mean sea level.
- A **trough** runs from west Assam to Gangetic West Bengal across Bangladesh at 1.5km above mean sea level.
- An **upper air cyclonic circulation** lies over Central Assam & neighbourhood at 3.1 km above mean sea level.
- The **upper air cyclonic circulation** over southwest Bay of Bengal and adjoining north Sri Lanka between 1.5 & 3.1 km above mean sea level persists.
- **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.
- The **upper air cyclonic circulation** over south Jharkhand and adjoining north Chhattisgarh has become less marked.
- The **trough** from **cyclonic circulation** over south Jharkhand and adjoining north Chhattisgarh to South Interior Karnataka has become less marked.
- The **trough** in easterlies over Lakshadweep roughly along 75°E to the north of latitude 6°N moved westwards.



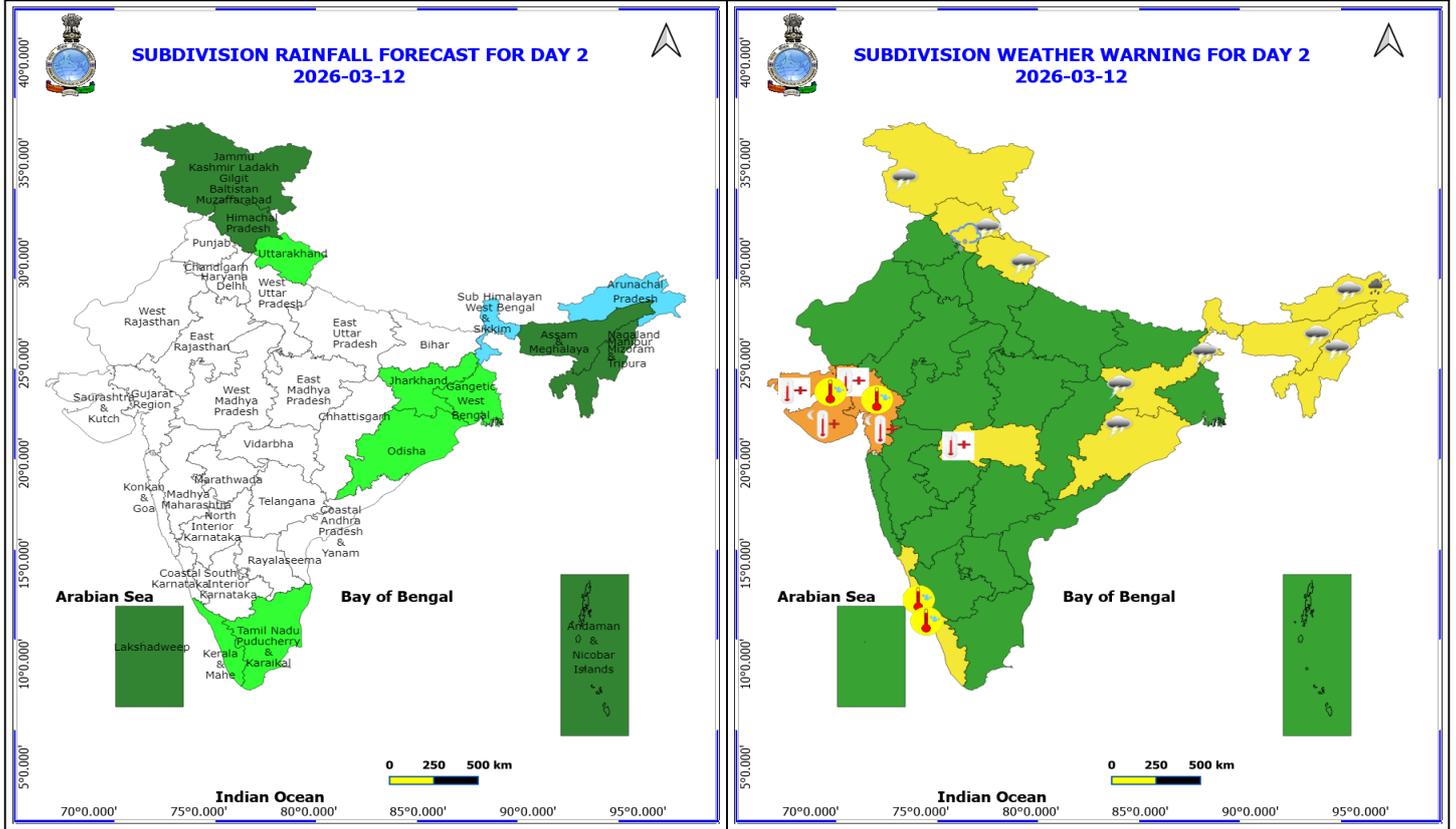
11 March (Day 1)

- ❖ **Heavy Rainfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Himachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Jharkhand, Odisha, Uttarakhand and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heat Wave conditions** very likely at isolated places over Vidarbha and West Rajasthan.
- ❖ **Heat Wave to Severe Heat Wave conditions** very likely at isolated places over Gujarat State.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Karnataka, Gujarat State, Kerala & Mahe and Konkan & Goa.
- ❖ **Warm Night conditions** very likely at isolated places over Gujarat State.

No Fishermen Warning

***Red color warning does not mean "Red Alert" Red color 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)



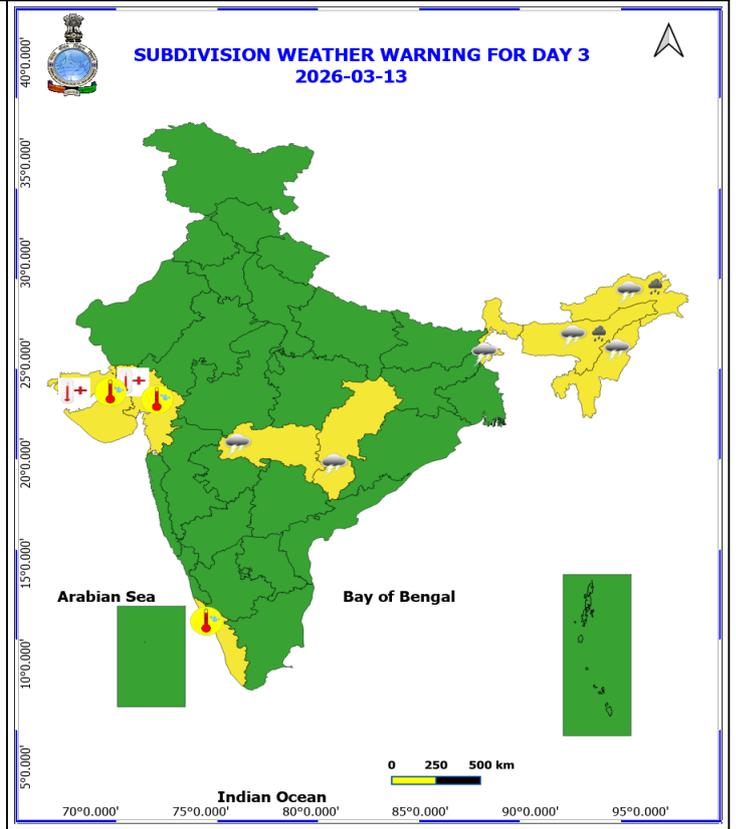
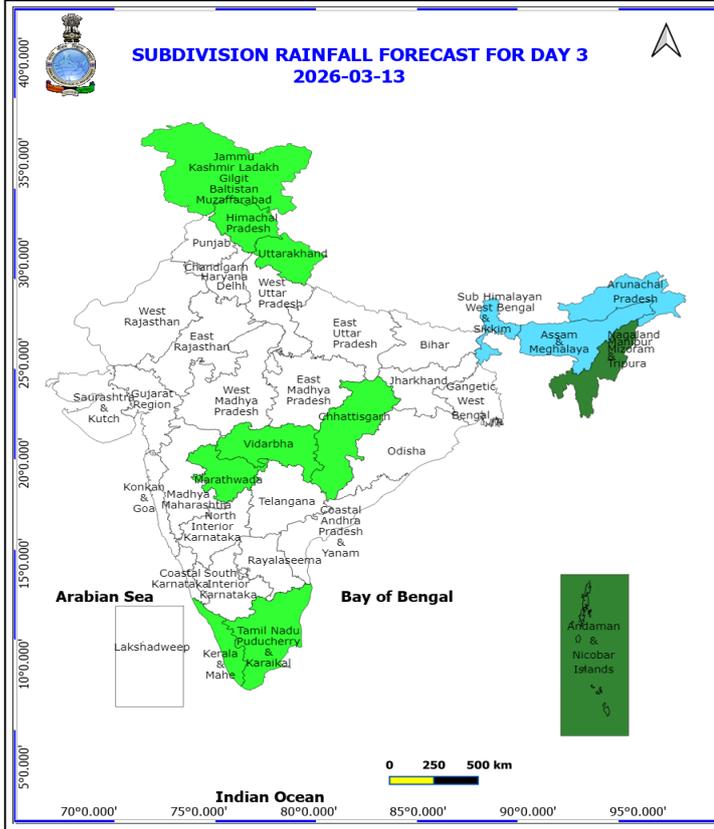
12 March (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Himachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Himachal Pradesh and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Odisha and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heat Wave conditions** very likely at isolated places over Gujarat Region and Vidarbha.
- ❖ **Heat Wave to Severe Heat Wave conditions** very likely at isolated places over Saurashtra & Kutch.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Karnataka, Gujarat State and Kerala & Mahe.
- ❖ **Warm Night conditions** very likely at isolated places over Gujarat State.

No Fishermen Warning

***Red color warning does not mean "Red Alert" Red color 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

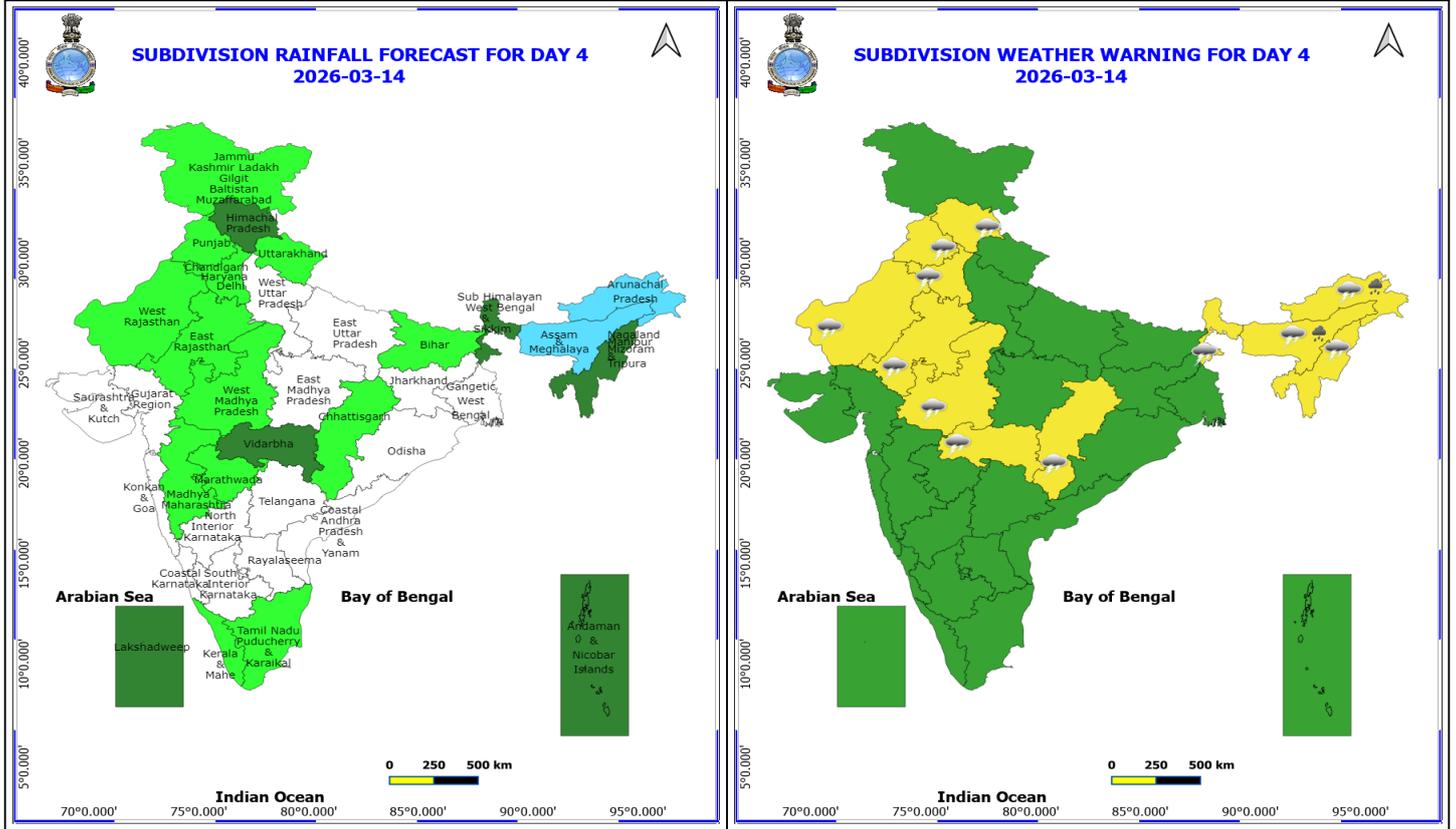
(Service to the nation since 1875)



13 March (Day 3)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Chhattisgarh, Sub Himalayan West Bengal & Sikkim and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heat Wave conditions** very likely at isolated places over Gujarat State.
- ❖ **Hot and Humid weather** very likely at isolated places over Gujarat State and Kerala & Mahe.

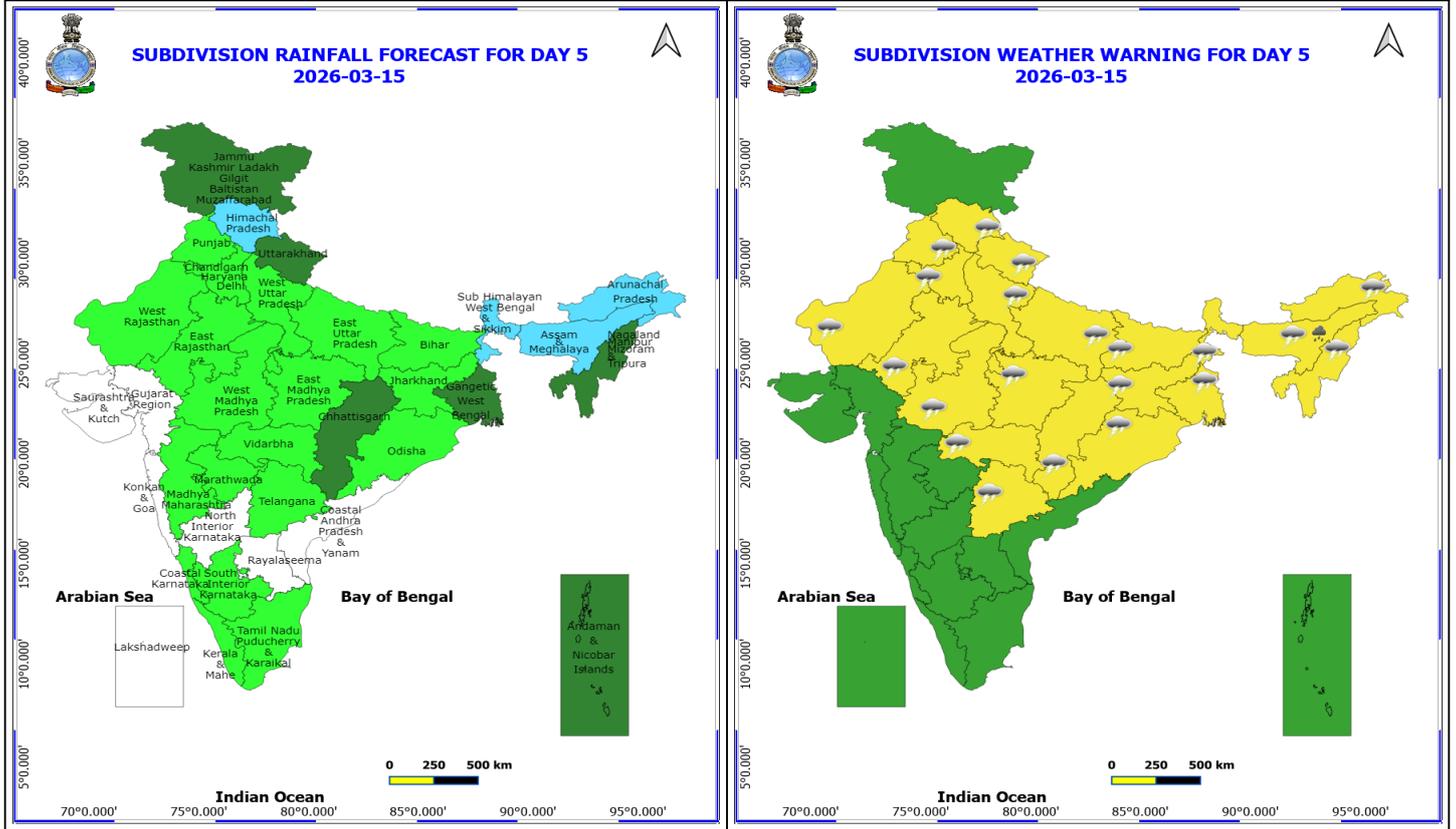
No Fishermen Warning



14 March (Day 4)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh, Himachal Pradesh, Vidarbha and West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Assam & Meghalaya, Haryana, Chandigarh & Delhi, Punjab, Rajasthan and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram and Tripura.

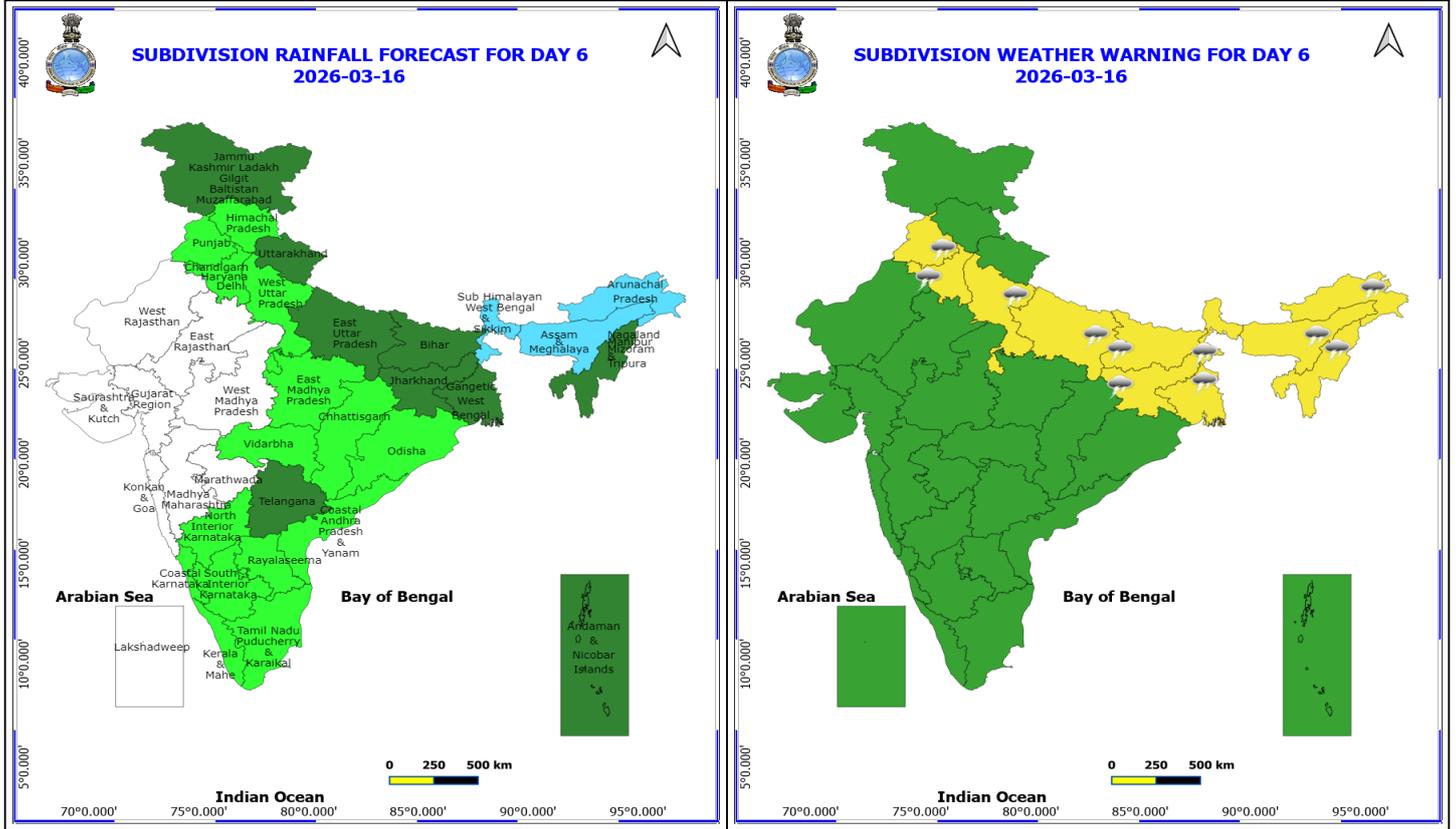
No Fishermen Warning



15 March (Day 5)

- ❖ **Heavy Rainfall** likely at isolated places over Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Chhattisgarh, Himachal Pradesh, Madhya Pradesh, Rajasthan, Uttarakhand and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Assam & Meghalaya, Bihar, Haryana, Chandigarh & Delhi, Jharkhand, Odisha, Punjab, Telangana, Uttar Pradesh and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram and Tripura.

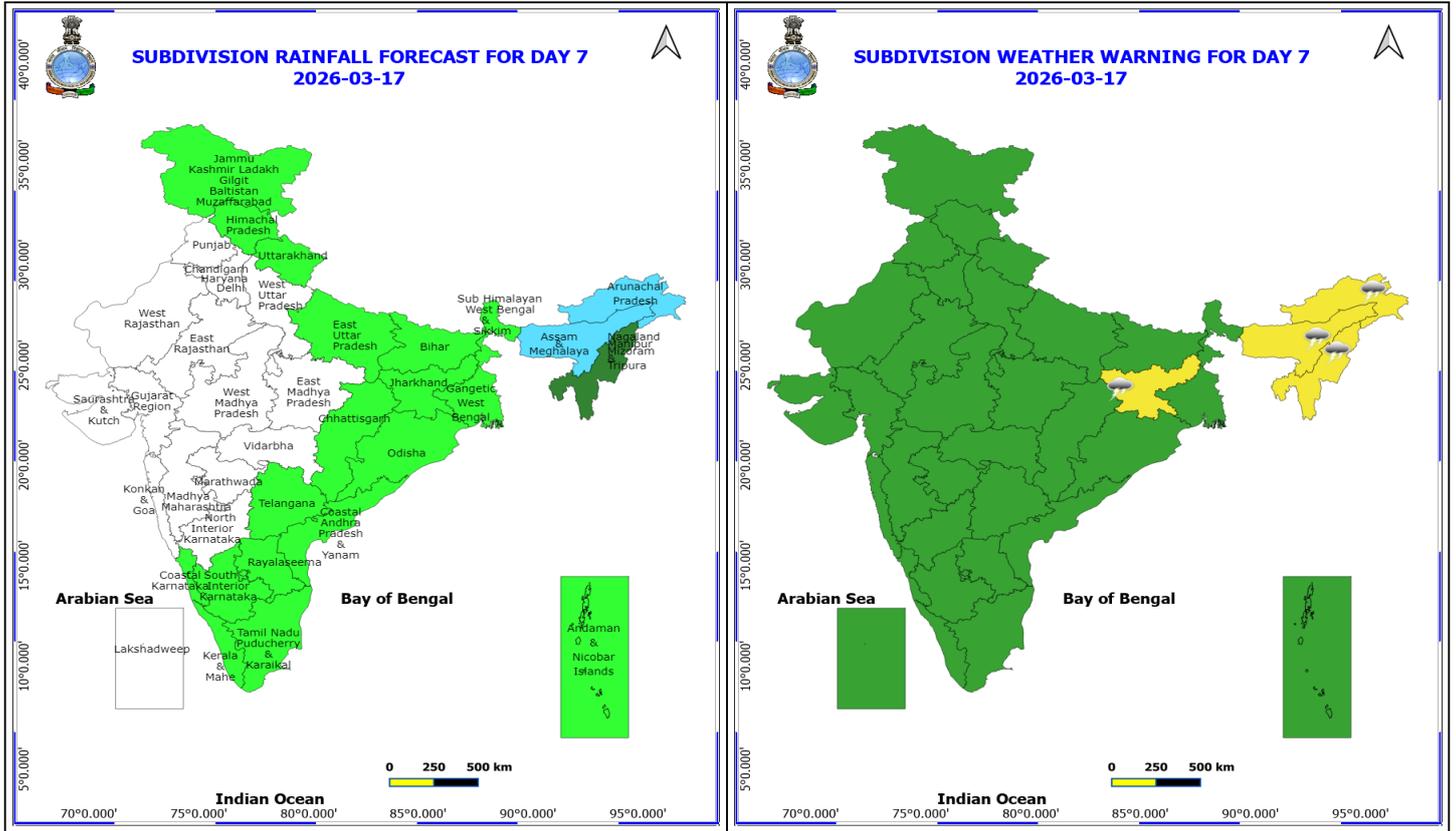
No Fishermen Warning



16 March (Day 6)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Jharkhand, Punjab, Uttar Pradesh and West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.

No Fishermen Warning



17 March (Day 7)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Jharkhand.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.

No Fishermen Warning



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	N. M. M. & T.	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
5	S.H. 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, CHD & 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						
22	SAURASHTRA & KUTCH	DRY						
23	KONKAN & GOA	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	CHATTISGARH	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						
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	ISOL						
36	LAKSHDWEEP	SCT	SCT	DRY	SCT	DRY	DRY	DRY

Legend	Category	%Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

*Red color warning does not mean "Red Alert" Red color 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)

Fig. 1: Maximum Temperatures Dated 2026-03-10

Fig. 2: Departure of Maximum Temp. Dated 2026-03-10

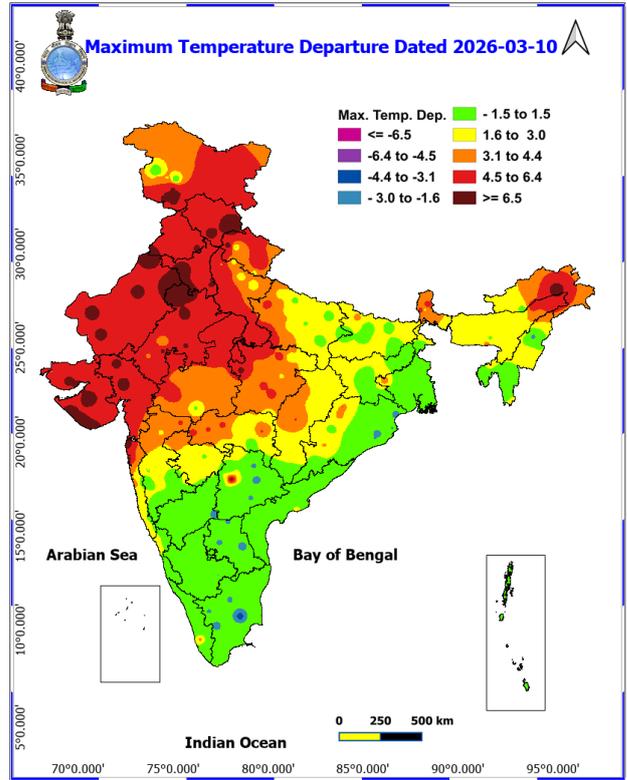
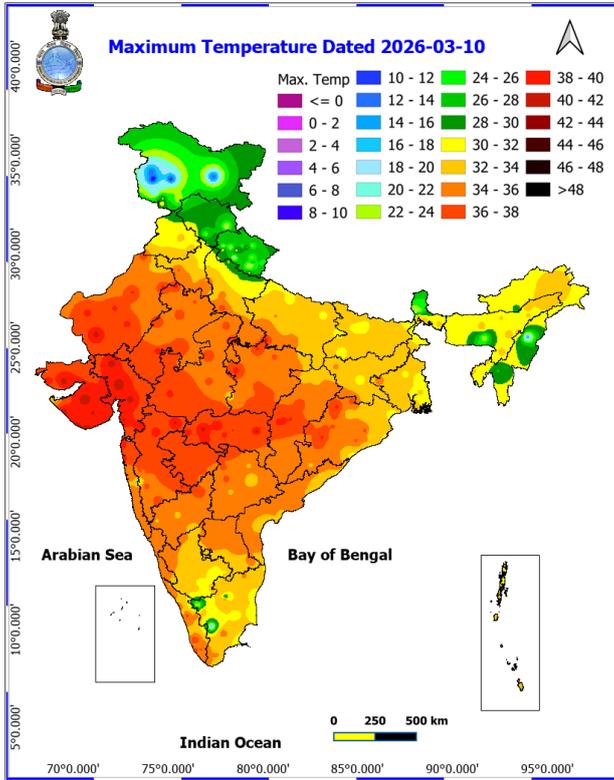
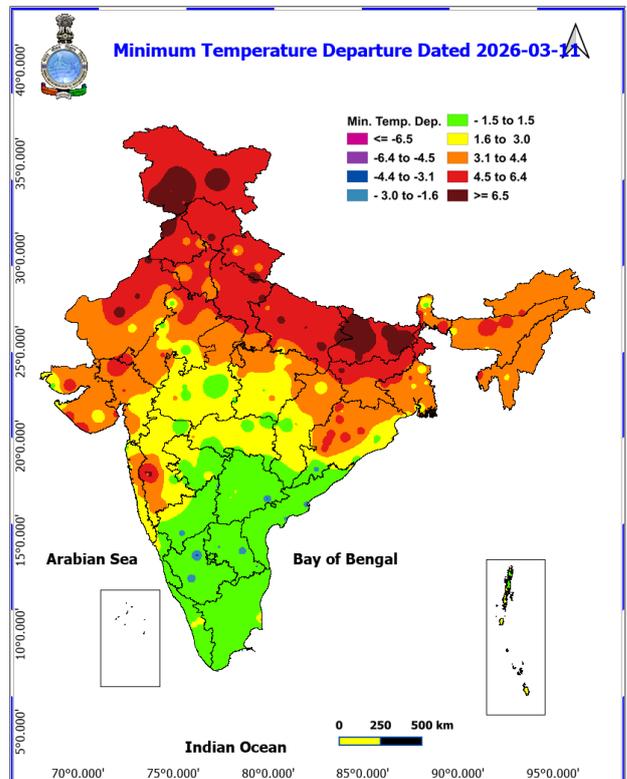
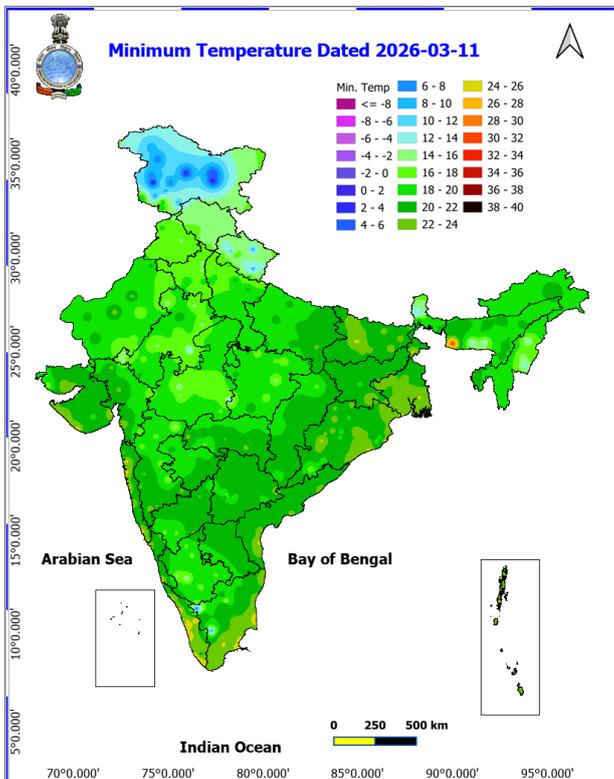
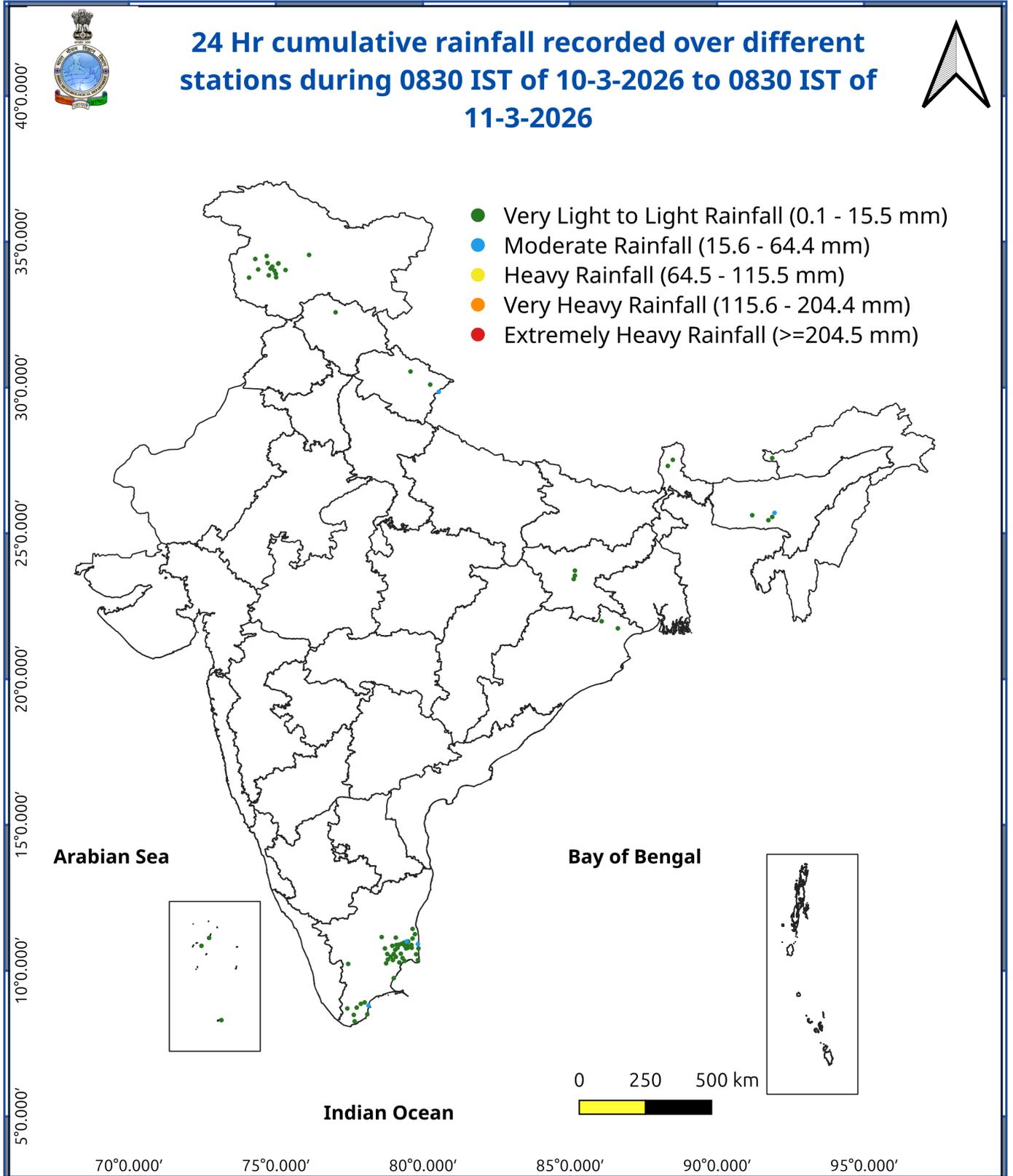


Fig. 3: Minimum Temperatures Dated 2026-03-11

Fig. 4: Departure of Minimum Temp. Dated 2026-03-11





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.

Agromet advisories for various parts of the country

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

***Red color warning does not mean "Red Alert" Red color 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)

- 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.

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:

***Red color warning does not mean "Red Alert" Red color 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)

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.

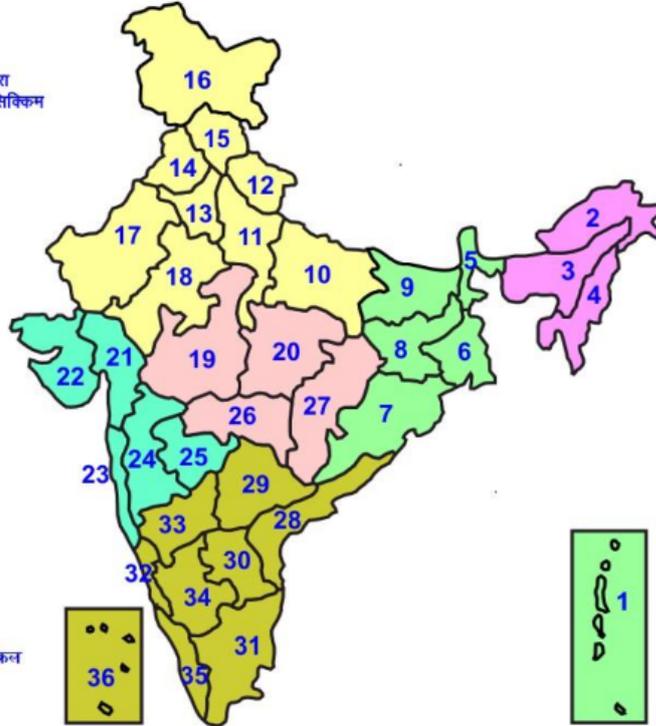
Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

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 द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं चन्नम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं 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. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & 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. Marathawada
26. Vidharbha
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)

Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- 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

- | | | | |
|--------------------------|-----------------|----------------------|--------------------|
| Heavy Rain | Very Heavy Rain | Extremely Heavy Rain | Heavy Snow |
| Thunderstorm & Lightning | Hailstorm | Dust Storm | Dust Raising Winds |
| Strong surface winds | Heat Wave | Hot Day | Warm Night |
| Cold Wave | Cold Day | Ground Frost | Fog |
| Hot & Humid | | | |

*Red color warning does not mean "Red Alert" Red color 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)

LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *



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 $\geq 37^{\circ}\text{C}$



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 $> 6.4^{\circ}\text{C}$.



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 $\leq 15^{\circ}\text{C}$



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 $\leq -6.5^{\circ}\text{C}$



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



Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



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



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



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

*Red color warning does not mean "Red Alert" Red color 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)