

2026-03-31

Time of Issue: 16:43:00 hours IST
(Evening)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

WEATHER FORECAST AND WARNING:

Northwest India:

- **Isolated to Scattered** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph gusting to 60 kmph) likely over Western Himalayan region on 31st March.
- **Isolated to Scattered** light to moderate rainfall with thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph) likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and West Rajasthan on 31st March and East Rajasthan on 31st March & 01st April.
- Another fresh wet spell with **Scattered to fairly widespread** light to moderate rainfall/snowfall with isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph) likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 03rd & 04th April; Uttarakhand during 03rd -06th April; **Isolated to scattered** light to moderate rainfall with isolated thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph reaching 60 kmph) likely over Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh on 03rd & 04th April; West Rajasthan during 02nd-04th & on 06th April; East Rajasthan on 03rd, 04th & 06th April.
- **Isolated hailstorm activity** also likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Uttarakhand, West Madhya Pradesh on 31st March, Jammu-Kashmir on 03rd and Himachal Pradesh on 03rd & 04th April.

Northeast India:

- **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning & gusty winds** (speed reaching 30-50 kmph) likely over Arunachal Pradesh, Assam & Meghalaya during 31st March-04th April; Nagaland, Manipur, Mizoram & Tripura on 31st March & 01st April.
- **Isolated heavy rainfall** likely over Assam & Meghalaya on 31st March & 01st April; Nagaland, Manipur, Mizoram & Tripura on 31st March and Arunachal Pradesh on 01st, 02nd, 05th & 06th April.

East India:

- **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds** (speed reaching 40-50 kmph gusting to 60 kmph) likely over Sub-Himalayan West Bengal & Sikkim during 31st March-02nd April; Bihar on 31st March & 06th April; Jharkhand on 31st March, 01st & 04th April; Odisha during 31st March-04th April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Odisha and Gangetic West Bengal on 31st March.
- **Isolated Hailstorm activity** likely over Odisha, Gangetic West Bengal and Jharkhand on 31st March.
- **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 31st March.
- **Isolated intense Lightning** activity also likely over Sub-Himalayan West Bengal & Sikkim and Gangetic West Bengal on 31st March.

Central India:

- **Isolated to scattered** light to moderate rainfall **with thunderstorm, lightning & gusty winds** (speed reaching 30-50 kmph) likely over Central India during next 5 days.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph) with hailstorm activity** likely over Chhattisgarh during 31st March-02nd April and Vidarbha on 01st & 02nd April.

West India:

- **Isolated to scattered** light to moderate rainfall **with thunderstorm, lightning & gusty winds** (speed reaching 30-50 gusting to 60 kmph) likely over Gujarat Region on 31st March and on 02nd & 03rd April; with **lightning**

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over Coastal Maharashtra during 31st March – 03rd April.

- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Madhya Maharashtra and Marathawada during 31st March-04th April.
- **Isolated hailstorm activity** likely over Madhya Maharashtra and Marathawada during 31st March -02nd April.

South Peninsular India:

- **Isolated** light to moderate rainfall **with thunderstorm, lightning & gusty winds** (speed reaching 30-50 gusting to 60 kmph) likely over Rayalaseema on 31st March & 04th April; Interior Karnataka and Telangana during 31st March-04th April; Kerala & Mahe on 03rd & 04th April; with **lightning** over Tamil Nadu on 31st March, 03rd & 04th April; Kerala & Mahe during 31st March-02nd April and Coastal Karnataka during next 5 days.
- **Isolated heavy rainfall** likely over Kerala & Mahe on 31st March.
- **Isolated hailstorm activity** likely over Telangana on 31st March & 01st April.

Forecast of maximum/day temperatures:

- Gradual rise in maximum temperatures by 2-4°C likely over Northwest India till 03rd April and then, gradual fall by 2-4°C during 04th-06th April. However, it will remain normal to below normal till 06th April, 2026.
- No significant change in maximum temperatures likely over Madhya Pradesh till 01st April and gradual fall by 2-4°C during 02nd -06th April.
- Gradual fall in maximum temperatures by 2-4°C likely over Vidarbha and Chhattisgarh till 02nd April and no significant change during 03rd -06th April.
- Fall in maximum temperatures by 2-4°C likely over East India during next 24 hours and gradual rise by 3-5°C during 01st -06th April.
- No significant change in maximum temperatures likely over Gujarat State till 01st April and gradual fall by 2-3°C during 02nd -06th April.
- Gradual fall in maximum temperatures by 2-4°C likely over Maharashtra till 04th April and no significant change on 05th & 06th April.
- No significant change in maximum temperatures likely over rest parts of the country.

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Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Gangetic West Bengal and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **at many places** over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **at a few places** over Himachal Pradesh, Marathwada, Telangana and Lakshadweep; **at isolated places** over Sub Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Bihar, West Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Madhya Maharashtra, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka, South Interior Karnataka 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): **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad**: Baramulla Kvk AWS (dist Baramula), Poonch (dist Poonch) 7 Each; Nowgam (dist Kupwara) 6; Rajouri ARG (dist Rajouri), Qazi Gund (dist Kulgam) 5 Each; **Assam & Meghalaya**: Bhaghmara (dist South Garo Hills) 7; **Nagaland, Manipur, Mizoram & Tripura**: KAMALPUR(CEWC) 8, Kailashahar AP (dist Unakoti), Ashapara AWS (dist North Tripura) 6 Each; Chhamonu (dist Dhalai) 5; **Telangana**: Wankdi (dist Kumaram Bheem) 5; **Gangetic West Bengal**: Amtala (dist Murshidabad) 5.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy rain** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.

❖ **Minimum Temperature Departures (as on 31-03-2026)**: were **markedly above normal (5.1? or more)** over East Uttar Pradesh, Bihar and East Madhya Pradesh; **appreciably above normal (3.1? to 5.0?)** over West Uttar Pradesh, Gujarat Region, southwest Madhya Pradesh; **above normal (1.6? to 3.0?)** over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Rajasthan, Saurashtra & Kutch, Coastal Maharashtra, Madhya Maharashtra, Odisha, Jharkhand, Assam & Meghalaya, Rayalaseema; **below normal (-3.0? to -1.6?)** over Gangetic West Bengal, Marathawada, Vidarbha, Telangana, North Interior Karnataka and near normal over rest parts of the country. **The lowest minimum temperature of 15.0 °C was observed at Amritsar (Punjab) over the Plains of India.**

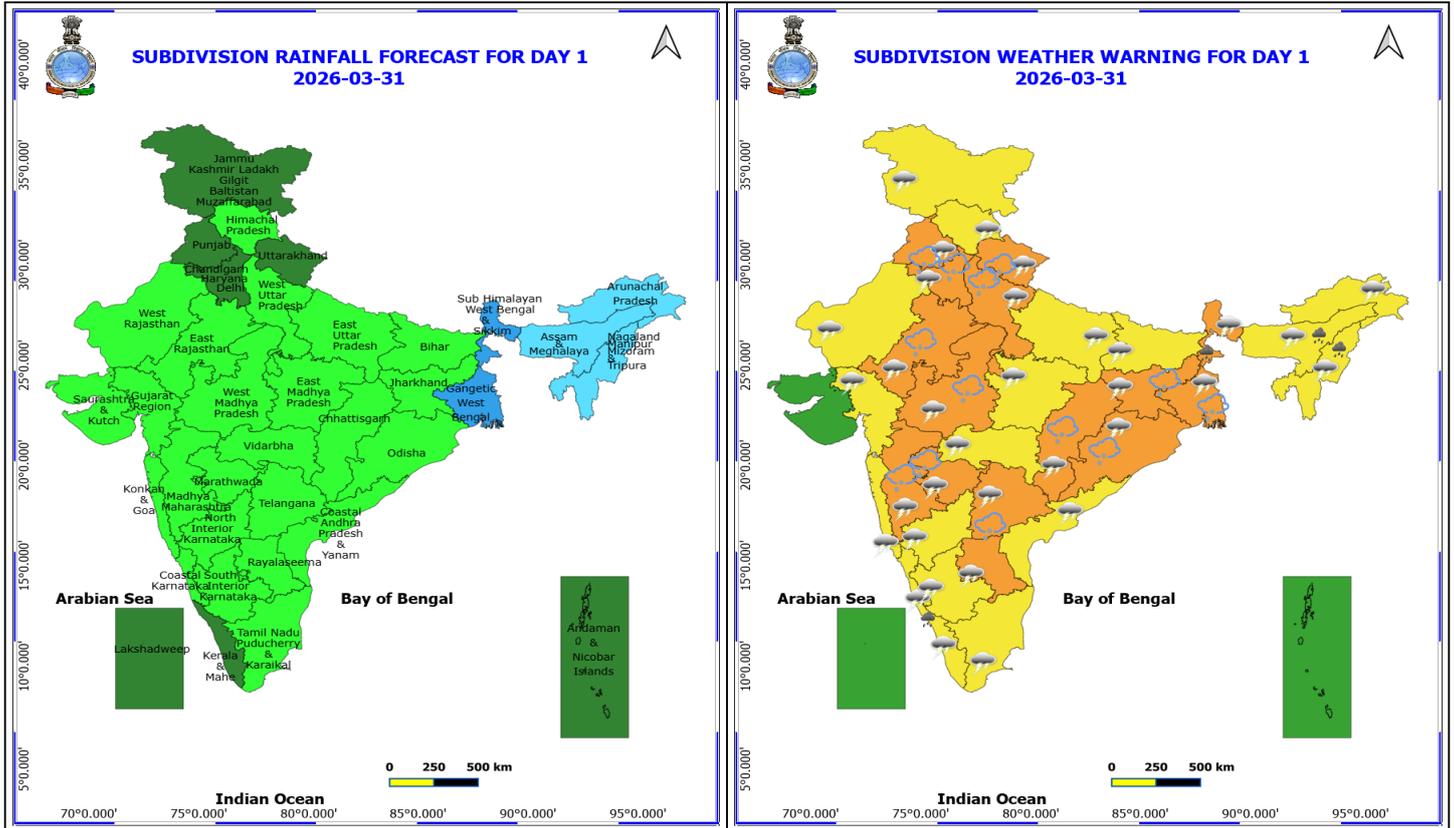
❖ **Maximum Temperature Departures (as on 30-03-2026)**: were **appreciably above normal (3.1°C to 5.0°C)** over East Madhya Pradesh; **above normal (1.6°C to 3.0°C)** over Delhi, Uttar Pradesh, southwest Madhya Pradesh, Vidarbha, Bihar, Chhattisgarh, Odisha, Rayalaseema, Kerala; **appreciably below normal (-5.0°C to -3.1°C)** over Jammu-Kashmir, West Rajasthan, Saurashtra & Kutch; **below normal (-3.0? to -1.6?)** over Himachal Pradesh, Telangana, Assam & Meghalaya and near normal over rest parts of the country. **The highest maximum temperature of 41.8°C was reported at TITLAGARH (ORISSA).**

Meteorological Analysis (Based on 1430 hours IST)

- The **Western Disturbance** as an **upper air cyclonic circulation** over North Pakistan & adjoining Jammu division at 3.1 km above mean sea level with **trough** aloft in middle tropospheric levels with its axis at 5.8 km above mean sea level roughly along Long. 70°E to the north of Lat. 26°N persists.
- The **upper air cyclonic circulation** over southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over East Uttar Pradesh at 0.9 km above mean sea level persists.
- The **East-West trough** from **upper air cyclonic circulation** over East Uttar Pradesh to Manipur across Bihar, south Sub-Himalayan West Bengal, north Bangladesh, Meghalaya and southeast Assam at 0.9 km above mean sea level persists.
- The **trough/Wind discontinuity** from **upper air cyclonic circulation** over East Uttar Pradesh to south Tamil Nadu across east Madhya Pradesh, Vidarbha, Marathwada, Interior Karnataka at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over Coastal Andhra Pradesh & adjoining Telangana at 0.9 km above mean sea level persists.
- The **upper air cyclonic circulation** over northeast Assam & neighbourhood at 1.5 km above mean sea level persists.
- **Subtropical westerly Jet Stream** with core winds of the order of 100 knots at 12.6 km above mean sea level continues to prevail over North India.
- A fresh **Western Disturbance** is likely to affect Northwest India from 02nd April, 2026.

Weather Outlook for subsequent 3 days

- Widespread rainfall activity likely over Northeast India, Jammu & Kashmir adjoining Punjab, Himachal Pradesh, Tamil Nadu and isolated rainfall activity over Uttarakhand & adjoining plains of western Himalayan region, Central India, Odisha & adjoining Coastal Andhra Pradesh.

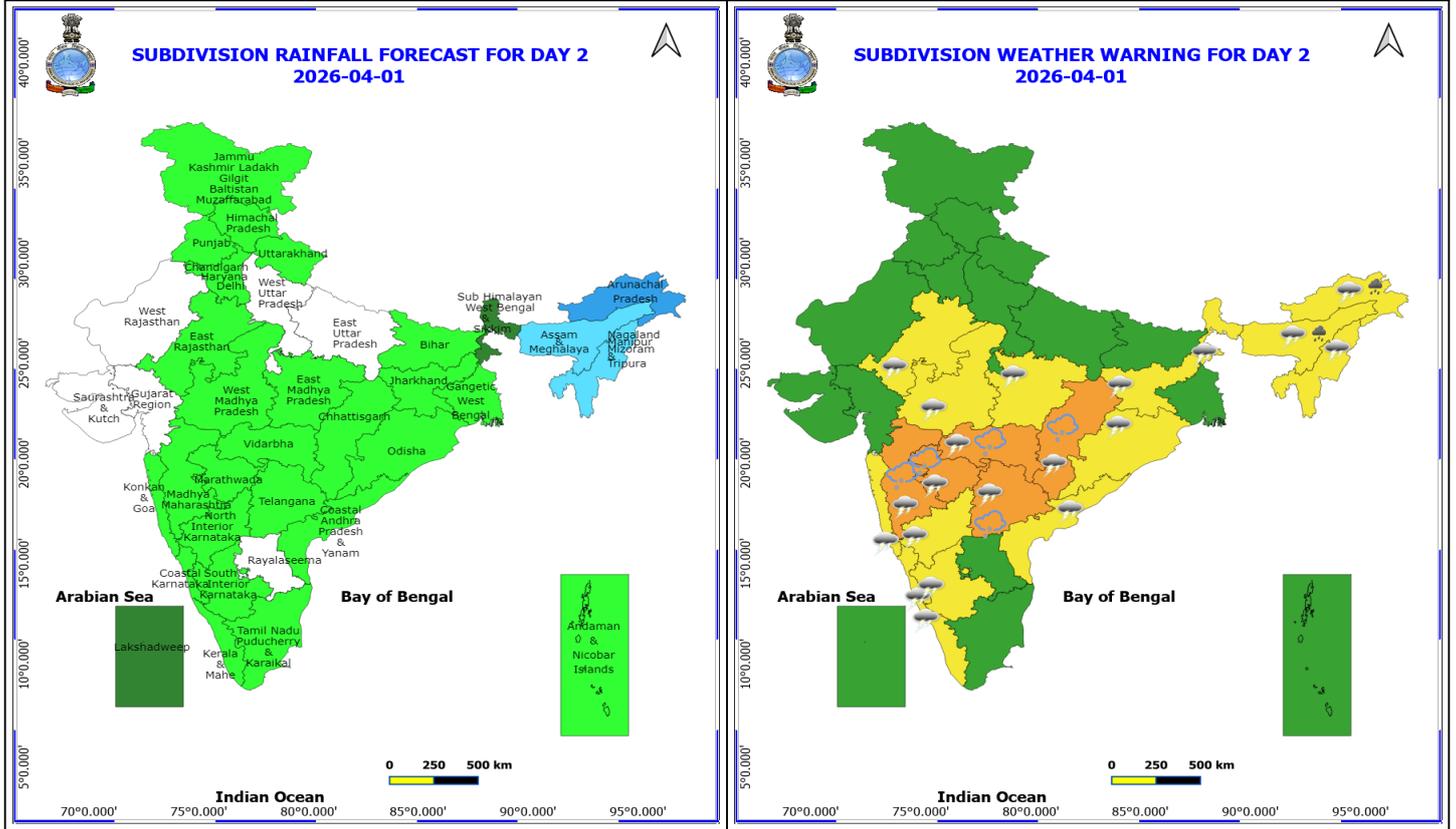


31 March (Day 1)

- ❖ **Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Chhattisgarh, East Rajasthan, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Jharkhand, Madhya Maharashtra, Marathwada, Odisha, Punjab, Telangana, Uttarakhand, West Madhya Pradesh and West Uttar Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Chhattisgarh, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Odisha and Rayalaseema.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Kerala & Mahe, North Interior Karnataka, Sub Himalayan West Bengal & Sikkim, Telangana, Uttarakhand and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Assam & Meghalaya, Coastal Andhra Pradesh, Gujarat Region, Haryana, Chandigarh & Delhi, Himachal Pradesh, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Punjab, Rajasthan, South Interior Karnataka and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Coastal Karnataka, East Uttar Pradesh, Konkan & Goa and Tamil Nadu Puducherry & Karaikal.
- ❖ **Squally weather with wind speed 40 to 50 kmph gusting to 60 kmph** is likely to prevail along and off north Odisha and West Bengal coasts, over some parts of southeast Bay of Bengal.

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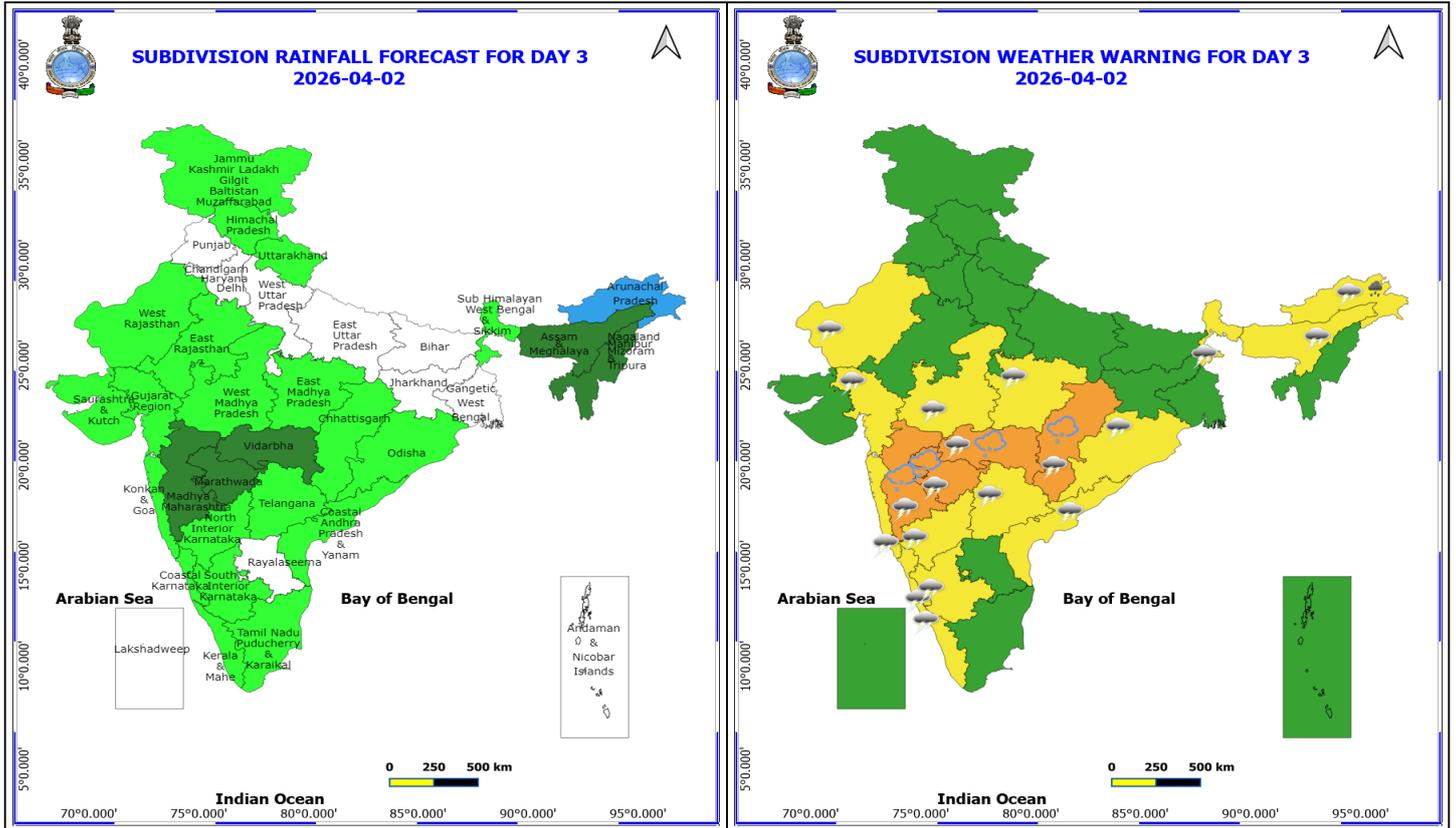
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1 April (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Chhattisgarh, Maharashtra and Telangana.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Chhattisgarh and Maharashtra.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya, Odisha and Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Arunachal Pradesh, Coastal Andhra Pradesh, Interior Karnataka, Jharkhand, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Coastal Karnataka, East Rajasthan, Kerala & Mahe and Konkan & Goa.

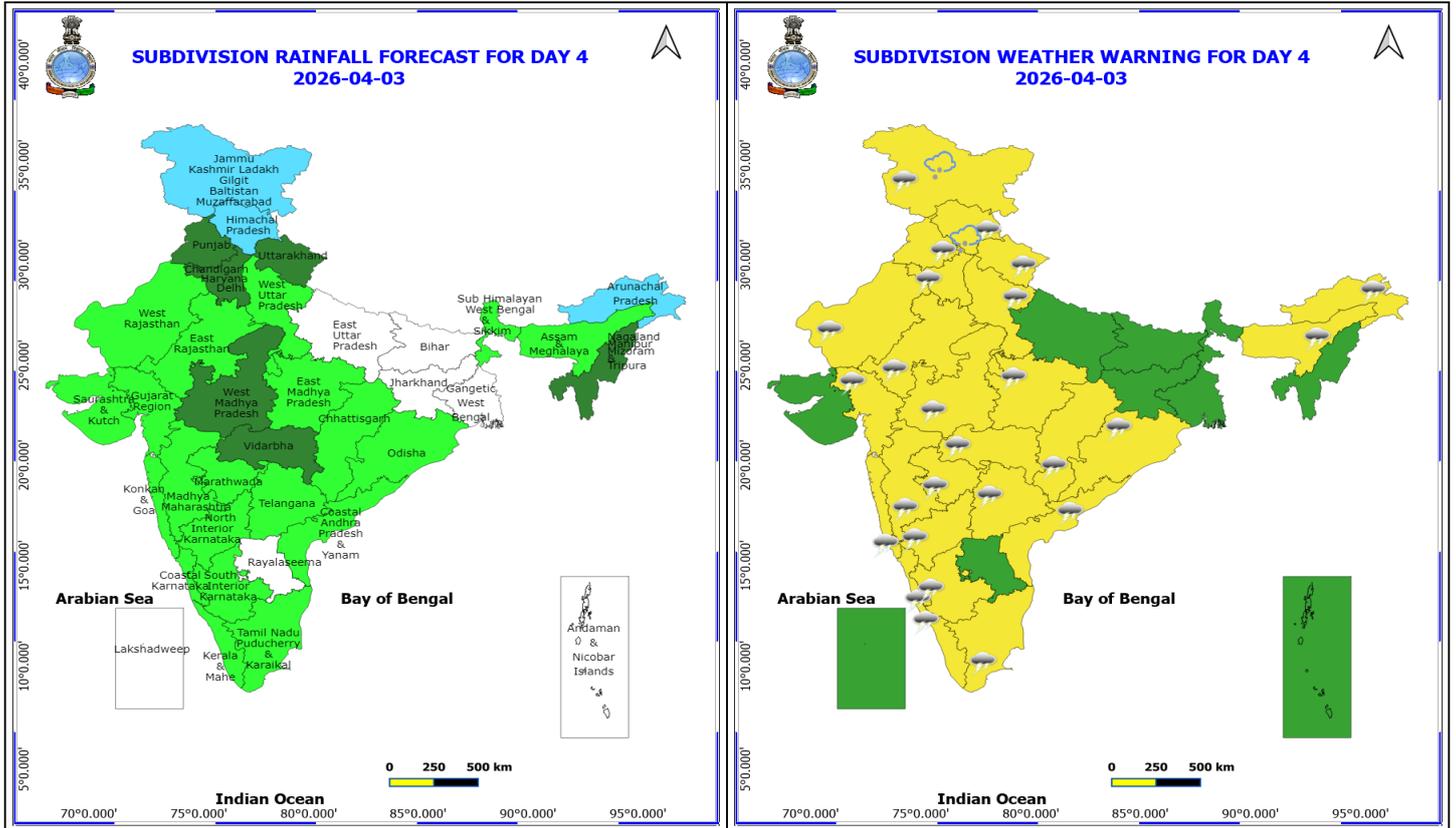
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2 April (Day 3)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Chhattisgarh and Maharashtra.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Chhattisgarh and Maharashtra.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over West Madhya Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Arunachal Pradesh, Coastal Andhra Pradesh, East Madhya Pradesh, Gujarat Region, Interior Karnataka, Odisha, Sub Himalayan West Bengal & Sikkim, Telangana and West Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Assam & Meghalaya, Coastal Karnataka, Kerala & Mahe and Konkan & Goa.

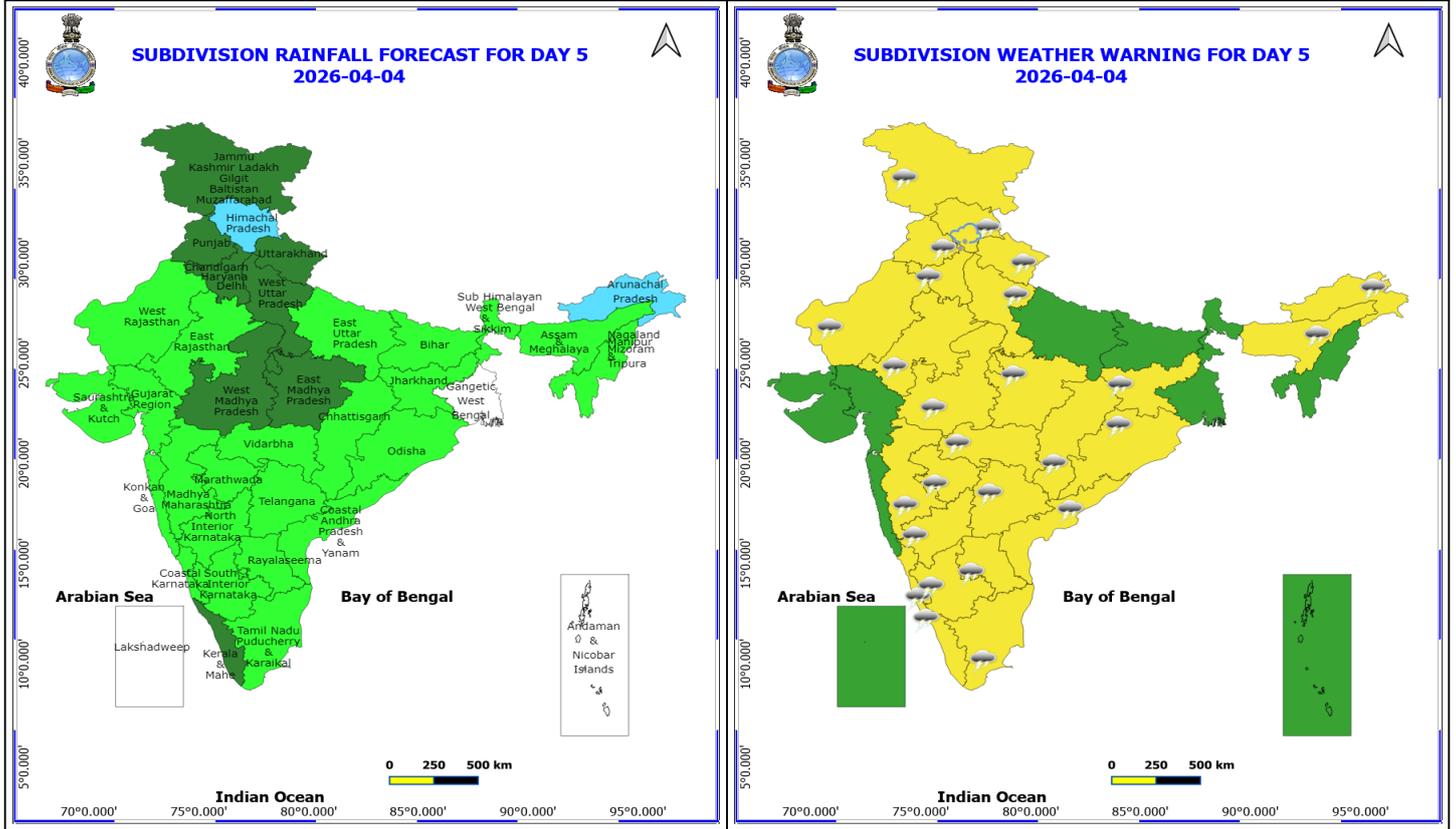
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3 April (Day 4)

- ❖ **Thunderstorm accompanied with Hailstorm** likely at isolated places over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Madhya Maharashtra and Marathwada.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya, Chhattisgarh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Kerala & Mahe, Madhya Pradesh, Punjab, Rajasthan, Uttarakhand and Vidarbha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Coastal Andhra Pradesh, Gujarat Region, Interior Karnataka, Odisha, Telangana and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Coastal Karnataka, Konkan & Goa and Tamil Nadu Puducherry & Karaikal.

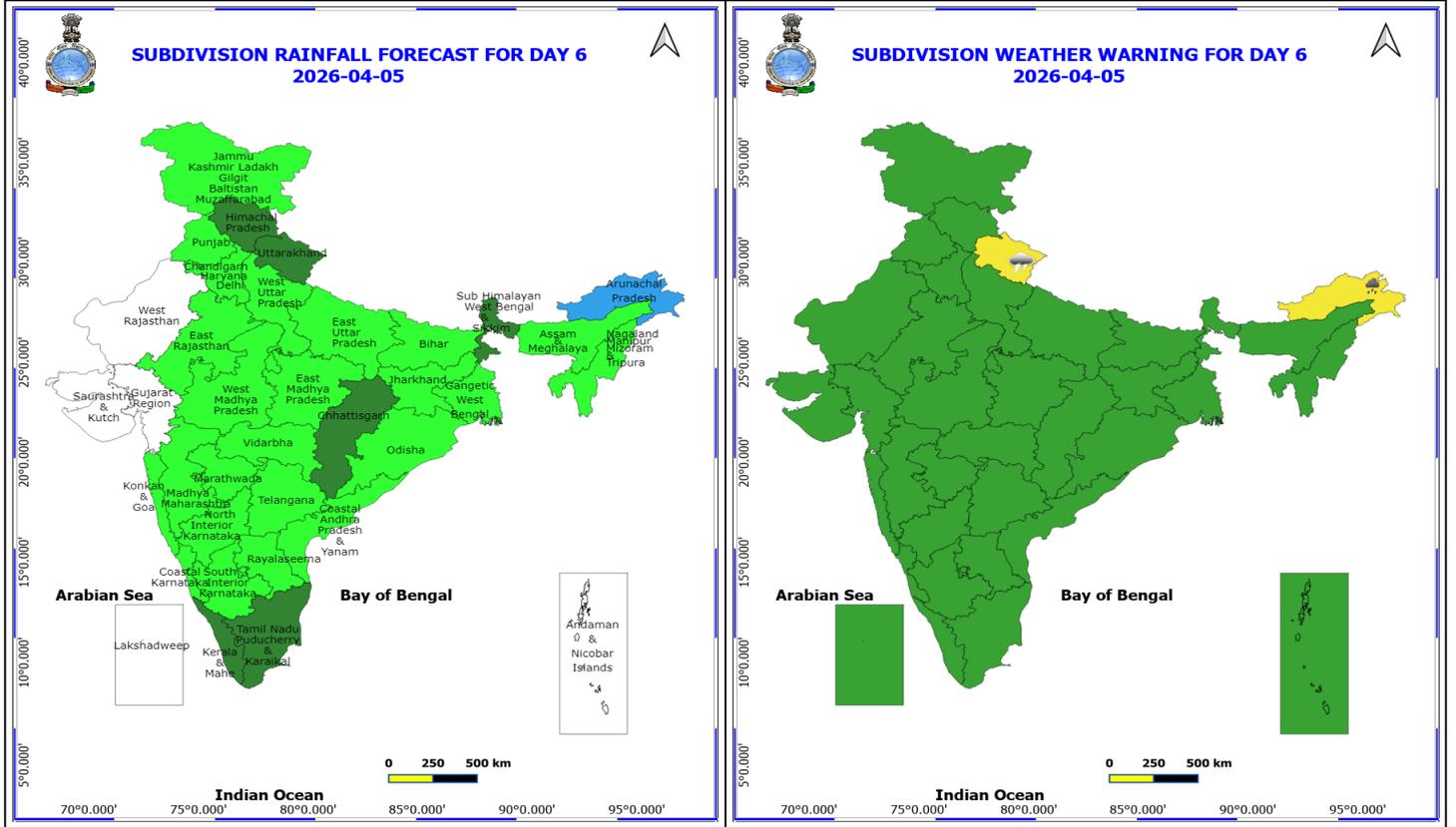
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4 April (Day 5)

- ❖ **Thunderstorm accompanied with Hailstorm** likely at isolated places over Himachal Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Madhya Maharashtra and Marathwada.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Assam & Meghalaya, Chhattisgarh, East Rajasthan, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Kerala & Mahe, Madhya Pradesh, Punjab and Uttarakhand.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andhra Pradesh, Interior Karnataka, Odisha, Telangana, Vidarbha, West Rajasthan and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Arunachal Pradesh, Coastal Karnataka and Tamil Nadu Puducherry & Karaikal.

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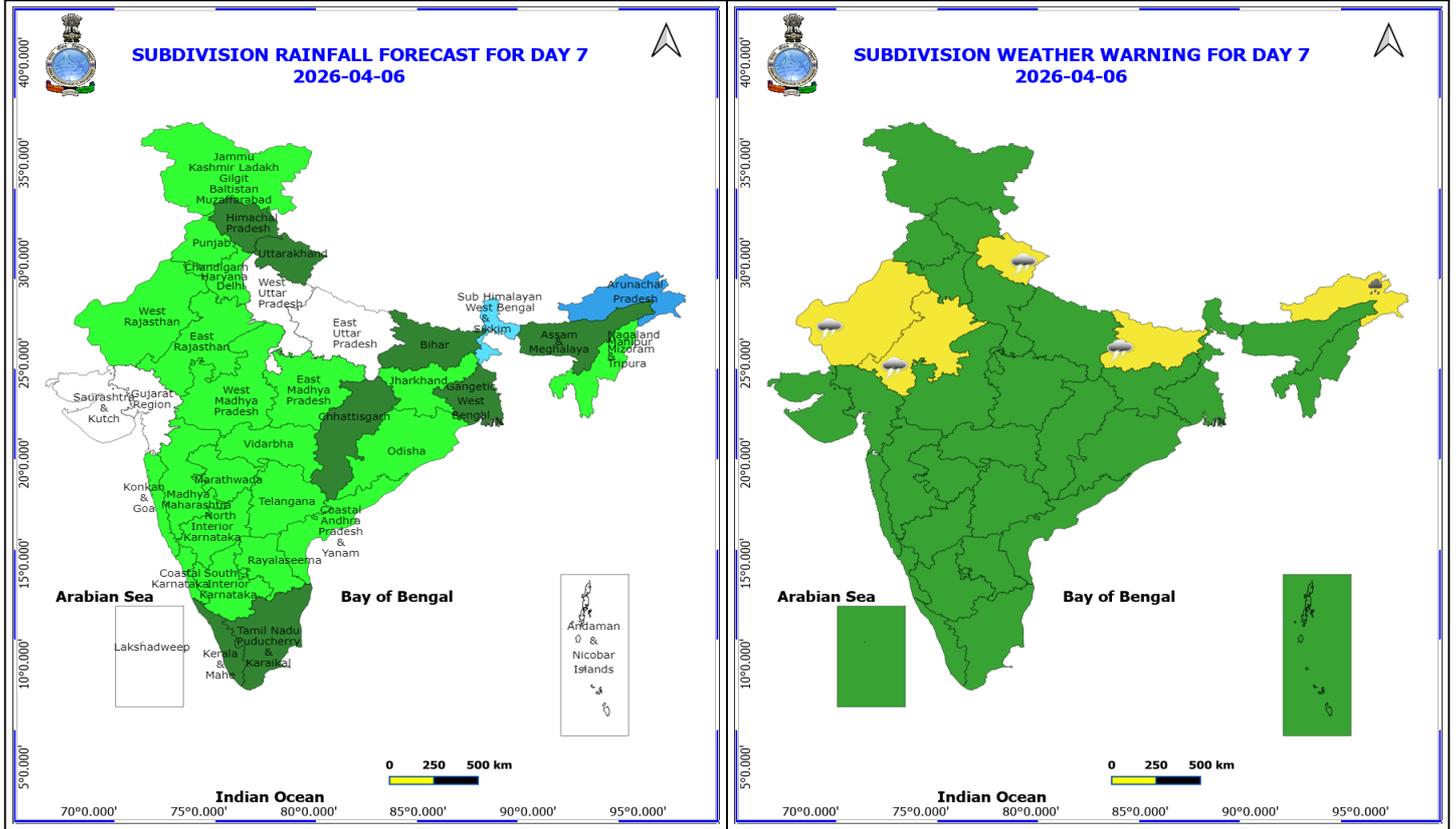


5 April (Day 6)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Uttarakhand.

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6 April (Day 7)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Bihar and Uttarakhand.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Rajasthan.

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	31- Mar	1- Apr	2- Apr	3- Apr	4- Apr	5- Apr	6- Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	FWS	WS	WS	FWS	FWS	WS	WS
3	ASSAM & MEHGHALAYA	FWS	FWS	SCT	ISOL	ISOL	ISOL	SCT
4	N. M. M. & T.	FWS	FWS	SCT	SCT	ISOL	ISOL	ISOL
5	S.H. WEST BENGAL & SIKKIM	WS	SCT	ISOL	ISOL	ISOL	SCT	FWS
6	GANGETIC WEST BENGAL	WS	ISOL	DRY	DRY	DRY	ISOL	SCT
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
9	BIHAR	ISOL	ISOL	DRY	DRY	ISOL	ISOL	SCT
10	EAST UTTAR PRADESH	ISOL	DRY	DRY	DRY	ISOL	ISOL	DRY
11	WEST UTTAR PRADESH	ISOL	DRY	DRY	ISOL	SCT	ISOL	DRY
12	UTTARAKHAND	SCT	ISOL	ISOL	SCT	SCT	SCT	SCT
13	HARYANA, CHD & DELHI	SCT	ISOL	DRY	SCT	SCT	ISOL	ISOL
14	PUNJAB	SCT	ISOL	DRY	SCT	SCT	ISOL	ISOL
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	FWS	FWS	SCT	SCT
16	JAMMU AND KASHMIR AND LADAKH	SCT	ISOL	ISOL	FWS	SCT	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	DRY	ISOL	ISOL	ISOL	DRY	ISOL
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
21	GUJRAT REGION	ISOL	DRY	ISOL	ISOL	ISOL	DRY	DRY
22	SAURASHTRA & KUTCH	ISOL	DRY	ISOL	ISOL	ISOL	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
25	MARATHWADA	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
27	CHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
32	COSTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA	SCT	ISOL	ISOL	ISOL	SCT	SCT	SCT
36	LAKSHDWEEP	SCT	SCT	DRY	DRY	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

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Fig. 1: Maximum Temperatures Dated 2026-03-30

Fig. 2: Departure of Maximum Temp. Dated 2026-03-30

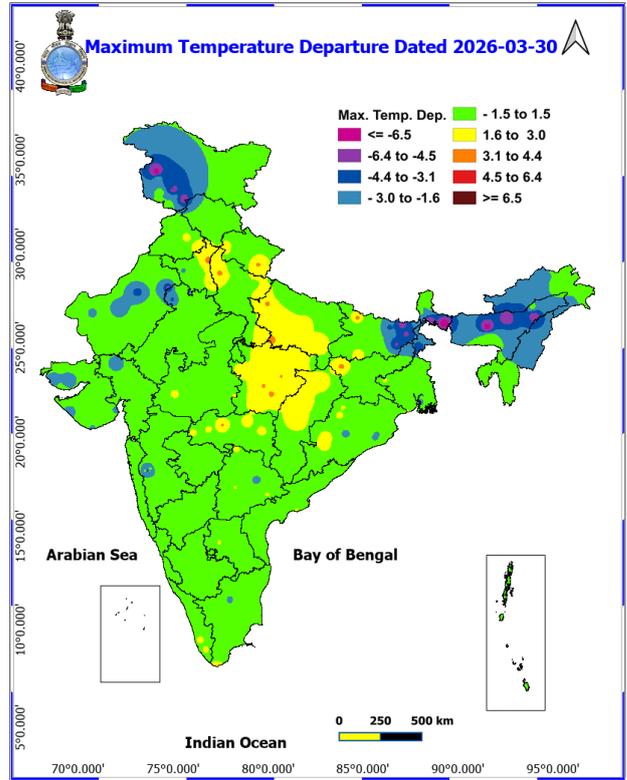
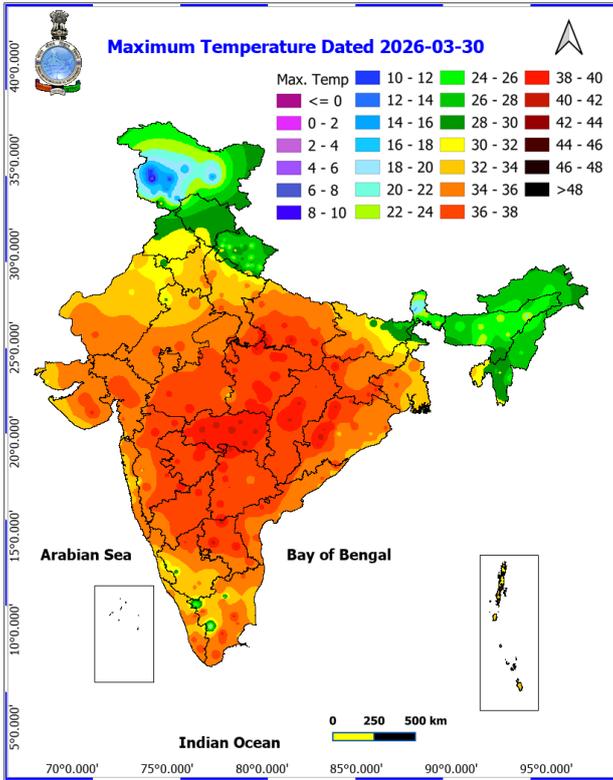
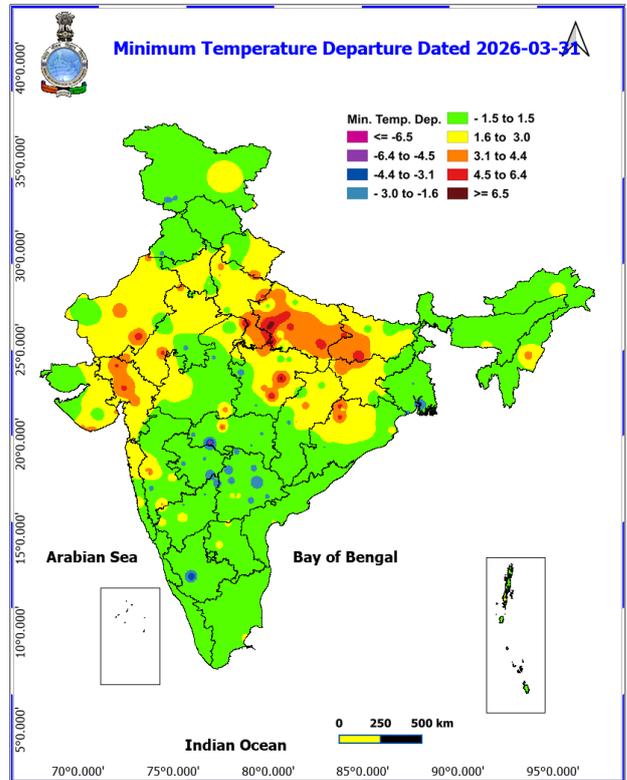
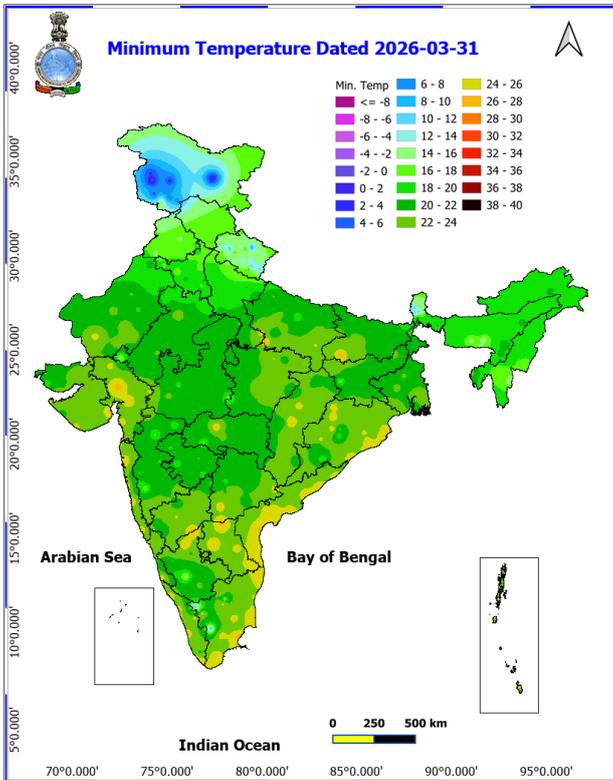
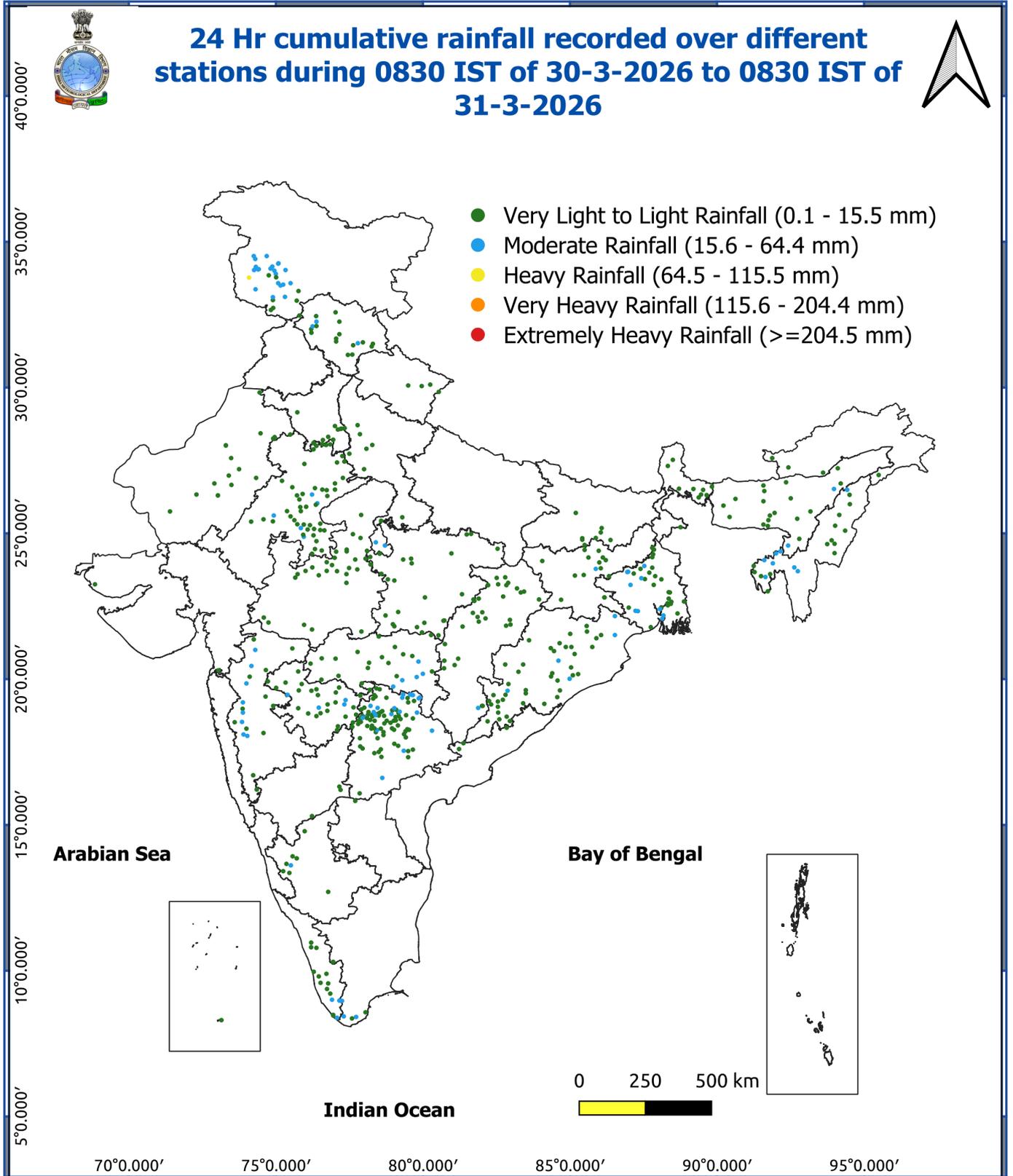


Fig. 3: Minimum Temperatures Dated 2026-03-31

Fig. 4: Departure of Minimum Temp. Dated 2026-03-31





Impact and Actions

Impact & Action Suggested due to heavy/very heavy rainfall:

- **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura on 31st March; Assam & Meghalaya on 31st March & 01st April and Arunachal Pradesh on 01st, 02nd, 05th & 06th April.

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).

Action Suggested

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

Impact expected and action suggested due to

- **Isolated hailstorm activity** likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Uttarakhand, West Madhya Pradesh, Odisha, Gangetic West Bengal and Jharkhand on 31st March; Chhattisgarh, Madhya Maharashtra and Marathwada during 31st March-02nd April; Telangana on 31st March & 01st April; Vidarbha on 01st & 02nd April; Jammu-Kashmir on 03rd; Himachal Pradesh on 03rd & 04th April.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70kmph)** likely over Odisha and Gangetic West Bengal on 31st March; Madhya Maharashtra and Marathwada during 31st March-04th April; Chhattisgarh during 31st March-02nd April and Vidarbha on 01st & 02nd April.

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.

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- 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 **Many Parts of Northwest Adjoining Central India, Odisha, Jharkhand, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh and Telangana.**
- Undertake harvesting of matured crops and fruits immediately and shift them to safer places.
- In **Jammu & Kashmir**, undertake harvesting of matured mustard during clear weather and keep the harvested produce in safe places.

Agromet advisories for likely impact of Heavy Rainfall

- In **Sub Himalayan West Bengal**, ensure proper drainage channel, and drain out excess water from fields of rice, maize, other standing crops, vegetables and orchard. Shift the harvested produce to safe places. Cover the nursery of cucurbits and Dalle khorsani with polyethylene sheets or agro-nets.
- In **Arunachal Pradesh**, undertake harvesting of cabbage, pea, mustard and late-maturing paddy varieties and digging of potatoes. Shift the harvested produce to safe places. Maintain proper drainage channels in the fields of rice, maize, other standing crops, vegetables and orchards.
- In **Assam**, drain out excess rainwater from the standing crop fields.
- In **Meghalaya**, ensure proper drainage in summer vegetable crops. Carry out staking and propping of plantation crops and protect young seedlings from heavy rainfall. Keep the harvested pods of garden peas in safer place immediately.
- In **Tripura**, make necessary arrangements to drain out excess water from the low-lying areas to prevent water logging.
- In **Kerala**, drain out excess water from the standing crops fields and orchards.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops properly and cover them to minimise the risk of displacement due to strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Livestock / Poultry

- Keep the animals inside the shed during Heavy Rainfall/Hailstorm period and provide them balanced feed. Store feed and fodder in a safe place to prevent spoilage.

Legends & abbreviations:

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.

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East India: Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.

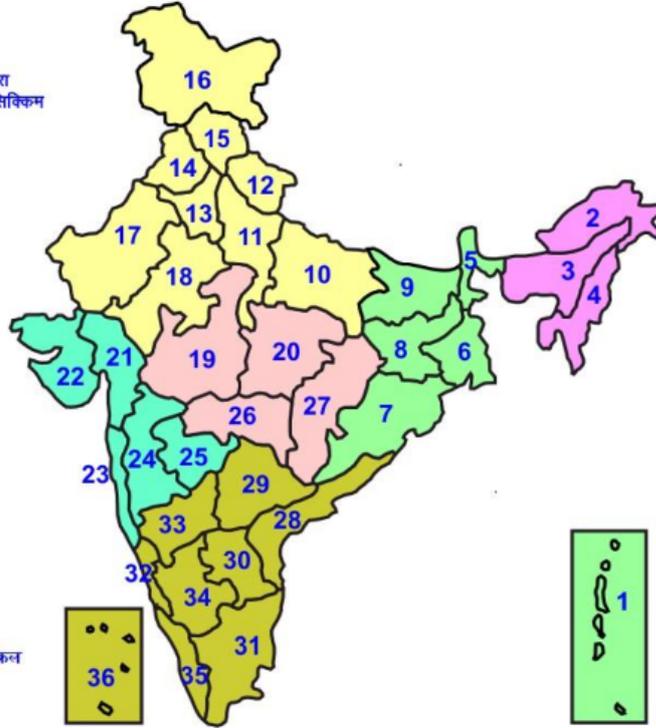
Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

West India: Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (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 | | | |

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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)

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