

Friday, March 29, 2024
Time of Issue: 2000 hours IST
(NIGHT)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- ❖ A cyclonic circulation lies over south Assam and another over Odisha in lower tropospheric levels. Under the influence of these systems:
 - ✓ Isolated to scattered rainfall/snowfall with isolated **thunderstorms & lightning** very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 29th and increase thereafter with fairly widespread to widespread light to moderate rainfall/snowfall with isolated **thunderstorms & lightning** over Arunachal Pradesh and scattered to fairly widespread rainfall over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during 30th March-04th April, 2024.
 - ✓ **Isolated heavy rainfall/snowfall very likely over Arunachal Pradesh and isolated heavy rainfall over Assam & Meghalaya during 30th March-01st April with possibility of isolated very heavy falls on 31st March, 2024. Isolated heavy rainfall likely over Nagaland, Manipur, Mizoram & Tripura on 01st April, 2024.**
 - ✓ Isolated light to moderate rainfall with **thunderstorms & lightning** very likely over Odisha on 29th & 30th March; Gangetic West Bengal during 29th March-01st April; Jharkhand on 30th March and Bihar on 30th & 31st March, 2024.
- ❖ A Western Disturbance seen as a cyclonic circulation over Iran & neighbourhood in lower tropospheric levels with a trough aloft in middle & upper tropospheric westerlies roughly along Long. 60°E to the north of Lat. 20°N. An induced cyclonic circulation lies over northwest Rajasthan & neighbourhood in lower tropospheric levels. Under their influence:
 - ✓ Fairly widespread to widespread light to moderate rainfall/snowfall with isolated **thunderstorms & lightning** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 29th & 30th and Uttarakhand during 29th-31st March, 2024.
 - ✓ Isolated **heavy rainfall/snowfall** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 29th & 30th and Uttarakhand on 31st March, 2024.
 - ✓ Isolated/Scattered light to moderate rainfall with **thunderstorms & lightning** very likely over Punjab and Haryana, Chandigarh during 29th-31st; Rajasthan and Uttar Pradesh on 29th & 30th March, 2024.
 - ✓ Isolated **hailstorm** also very likely over Himachal Pradesh, Punjab and Haryana & Chandigarh on 29th & 30th and Uttarakhand during 29th-31st March, 2024.
- ❖ A cyclonic circulation lies over southwest Madhya Pradesh & neighbourhood and a trough/wind discontinuity runs from north Tamil Nadu to cyclonic circulation over southwest Madhya Pradesh in lower tropospheric levels. Under the influence of these systems:
 - ✓ Isolated light to moderate rainfall with **thunderstorms & lightning** very likely over West Madhya Pradesh and Kerala & Mahe on 29th; East Madhya Pradesh, Madhya Maharashtra & Marathwada on 29th & 30th and Vidarbha & Chhattisgarh on 30th March, 2024.

Maximum temperature observation and forecast for next 5 days:

- ❖ Today, Maximum temperatures are in the range of 40-43°C at many places over Vidarbha, Rayalaseema, East Madhya Pradesh; few places over Marathwada, Odisha and isolated places over West Madhya Pradesh, Madhya Maharashtra, Chhattisgarh, North Interior Karnataka, East Rajasthan and Gujarat Region. These are in the range of 36-40°C over rest parts of South-Central-North India, Odisha, Rajasthan and at many places over south Haryana-Delhi, south Uttar Pradesh, Jharkhand and Gangetic West Bengal. These are in the range of 30-35°C over rest parts of the plains of the country.
- ❖ Currently, 95th percentile of maximum temperature departures are in the range of 2-4°C in isolated pockets over Marathwada and Madhya Pradesh. These are likely to decrease gradually falling in the range of 0-2°C over Madhya Pradesh from 31st March onwards and continue to be in the range of 2-4°C in isolated pockets over Marathwada during next 5 days.
- ❖ Fall in maximum temperatures by 2-4°C very likely over many parts of Northwest India during next 3 days and no significant change thereafter.
- ❖ Rise in maximum temperatures by 2-3°C very likely over many parts of Central & East India during next 2 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over rest part of the country during next 5 days.
- ❖ **Heat wave conditions** very likely in isolated pockets over Madhya Pradesh, Vidarbha and North Interior Karnataka on 30th March and Rayalaseema & Telangana on 01st & 02nd April, 2024.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Madhya Pradesh, Vidarbha, Madhya Maharashtra, Marathwada on 29th & 30th and Gujarat Region on 29th March, 2024.
- ❖ **Hot and humid weather** very likely to prevail over Odisha during 29th March-02nd April; Gangetic West Bengal, Bihar during 31st March-02nd April; Konkan & Goa, Gujarat state during 29th & 30th March; over Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 29th March-01st April; north Coastal Andhra Pradesh during 30th March-02nd April, 2024.

* 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

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Main Weather Observations:

- ❖ **Rainfall/snowfall distribution** (from 0830 hours IST to 1730 hours IST of today): at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Sikkim.
- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of today): at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Madhya Pradesh and West Uttar Pradesh.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of today) (in cm): NIL.
- ❖ Yesterday, **warm night conditions** prevailed in isolated pockets of West Madhya Pradesh, Gujarat Region, Madhya Maharashtra and Marathwada.
- ❖ Today, **Heat wave conditions** prevailed in isolated pockets over Madhya Pradesh.
- ❖ **Minimum Temperature Departures (as on 29-03-2024):** Minimum temperatures are **markedly above normal (5.1°C or more)** at isolated places over Madhya Pradesh, Madhya Maharashtra and Marathwada; **appreciably above normal (3.1°C to 5.0°C)** at many places over Gujarat Region; at a few places over Uttar Pradesh, Rajasthan and Vidarbha; at isolated places over Himachal Pradesh, Haryana-Chandigarh-Delhi, Bihar, Gangetic West Bengal, Odisha, Chhattisgarh, Saurashtra & Kutch and North Interior Karnataka; **above normal (1.6°C to 3.0°C)** at a few places over Uttarakhand and Konkan & Goa; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh, Jharkhand, Telangana and Kerala & Mahe. These are **below normal (-1.6°C to -3.0°C)** at isolated places over Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Today, **the lowest minimum temperature** of 15.0°C is reported at **Ludhiana (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 29-03-2024):** Maximum temperatures are **markedly above normal (5.1°C or more)** at isolated places over West Madhya Pradesh, Himachal Pradesh, Uttarakhand and Assam & Meghalaya; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Haryana-Chandigarh-Delhi and Arunachal Pradesh; at isolated places over West Uttar Pradesh, Punjab, East Rajasthan and East Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Vidarbha and Rayalaseema; at many places over Chhattisgarh and South Interior Karnataka; at a few places over East Uttar Pradesh Telangana and Marathwada; at isolated places over Jharkhand, Odisha, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Konkan & Goa, Coastal & North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. These are **Markedly below normal (-5.1°C or less)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **below normal (-1.6°C to -3.0°C)** at isolated places over Bihar and Nagaland, Manipur, Mizoram & Tripura and **near normal** over rest parts of the country. Today, **the highest maximum temperature** of 42.6°C was reported at **Akola (Vidarbha)** over the country.

Meteorological Analysis (Based on 1730 hours IST)

- ❖ The Western Disturbance as a cyclonic circulation over Iran & neighbourhood between 3.1 & 4.5 km above mean sea level persists. However, the trough aloft in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 60°E to the north of Lat. 20°N.
- ❖ The induced cyclonic circulation over northwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over south Assam & neighbourhood between 1.5 & 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over southwest Madhya Pradesh & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The trough/wind discontinuity from north Tamil Nadu to above cyclonic circulation over southwest Madhya Pradesh across interior Karnataka & Marathwada at 0.9 km above mean sea level persists.
- ❖ A cyclonic circulation over Odisha & neighbourhood at 0.9 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 05th April, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Fall in maximum temperatures by 2-4°C very likely over many parts of Northwest India during next 3 days and no significant change thereafter.
- ❖ Rise in maximum temperatures by 2-3°C very likely over many parts of Central & East India during next 2 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over rest part of the country during next 5 days.

Weather Outlook for subsequent 3 days (During 05th-07th April, 2024)

- ❖ Scattered to fairly widespread light to moderate rainfall/snowfall likely over Northeast India and Western Himalayan Region.
- ❖ Isolated light rainfall likely over Odisha, north Coastal Andhra Pradesh, Chhattisgarh and Kerala & Mahe.
- ❖ Dry weather likely to prevail over rest parts of the country.

Table-1

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

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

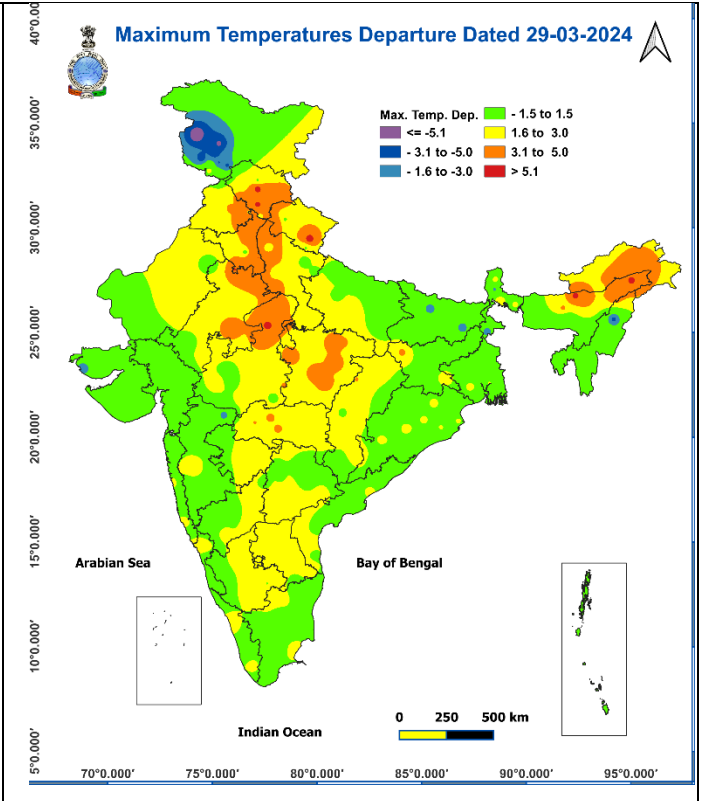
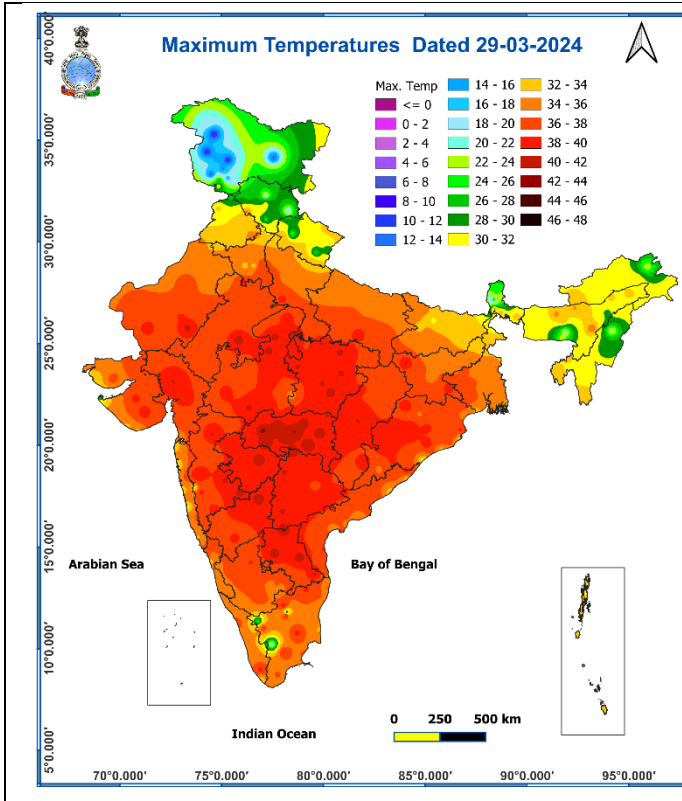


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

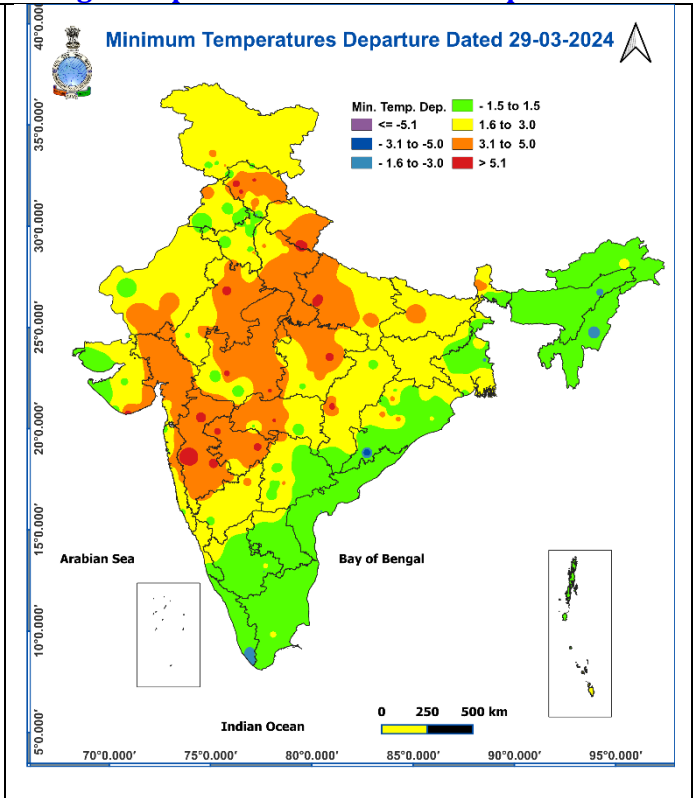
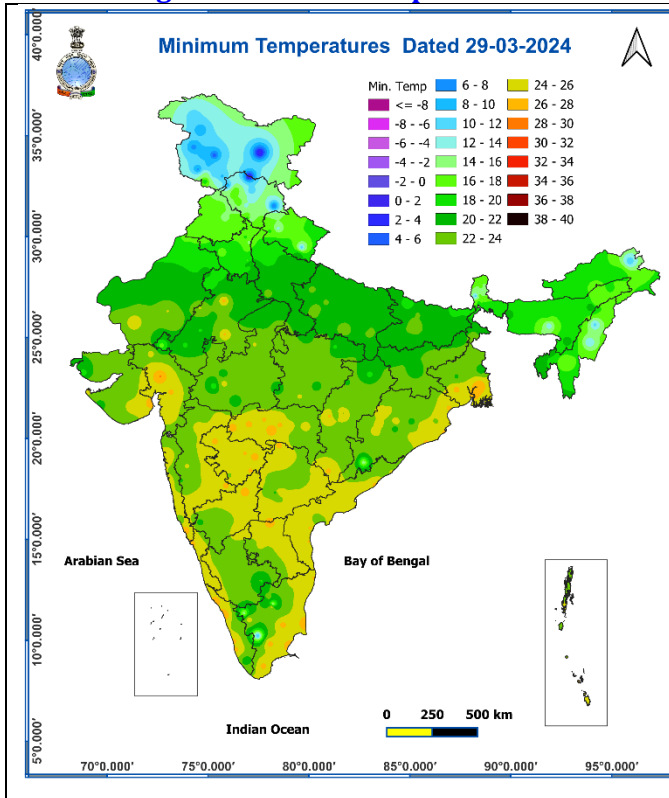
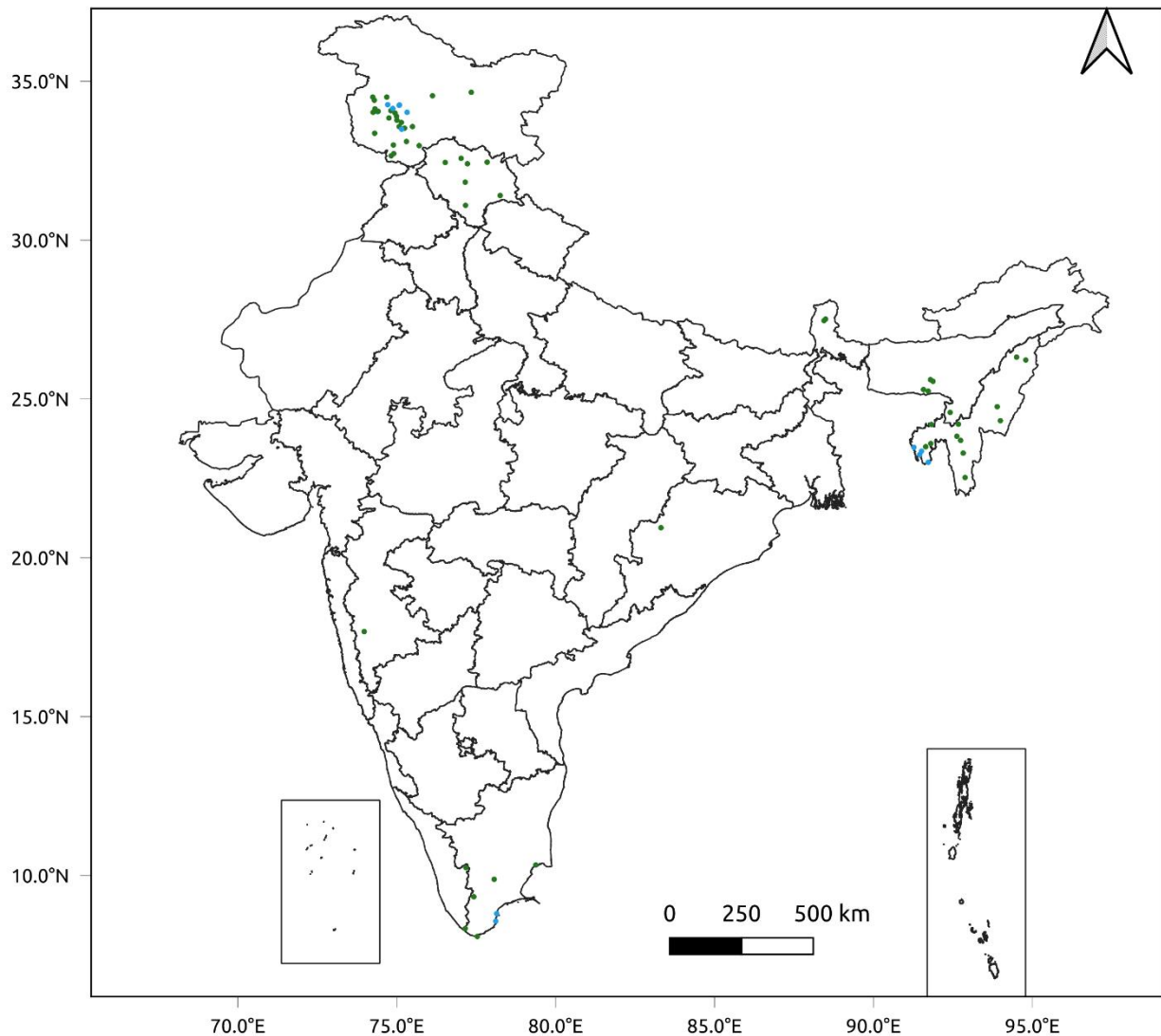


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

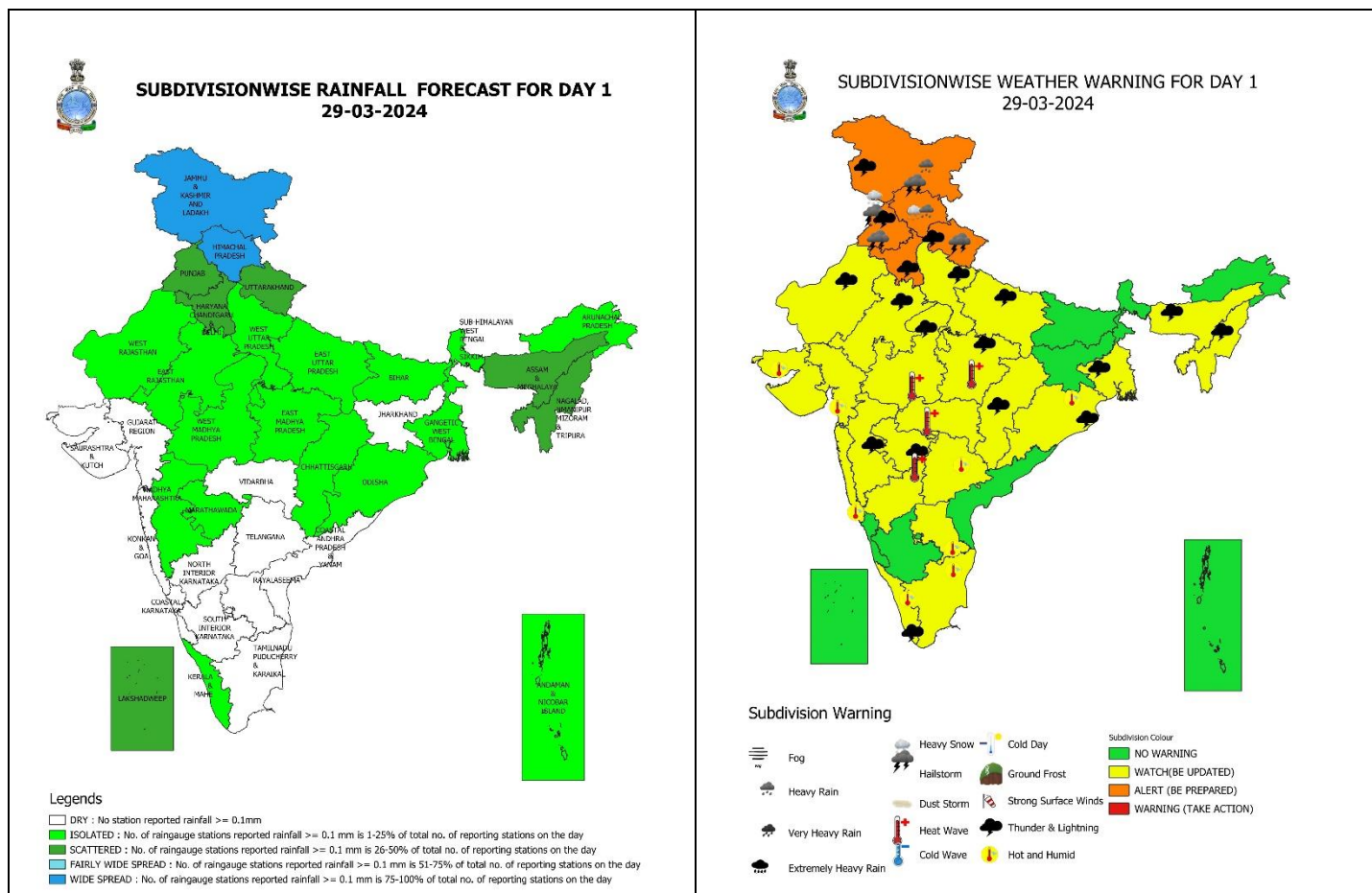


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 28-3-2024 to 0830 IST of 29-3-2024



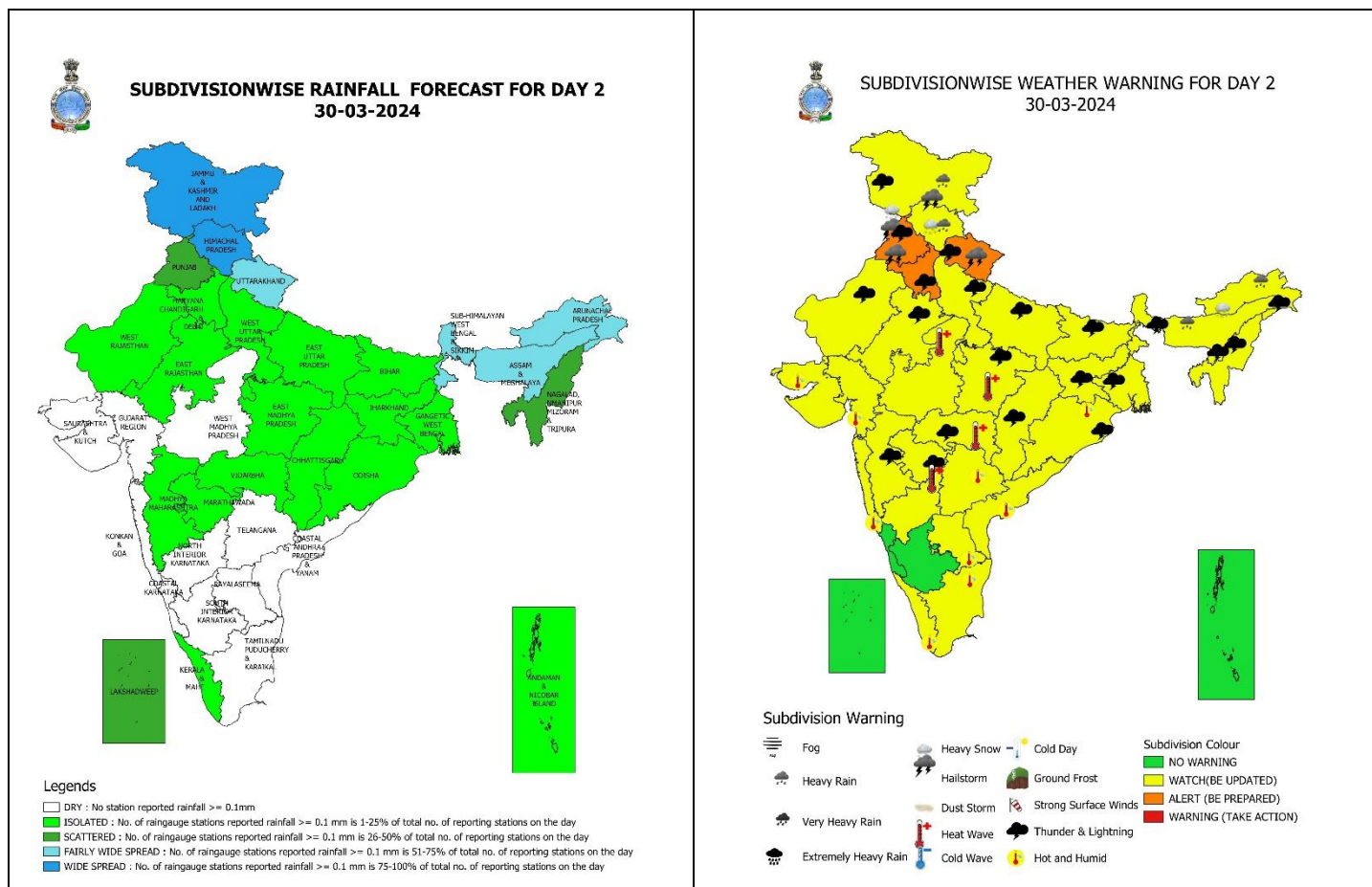
Legends

- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)



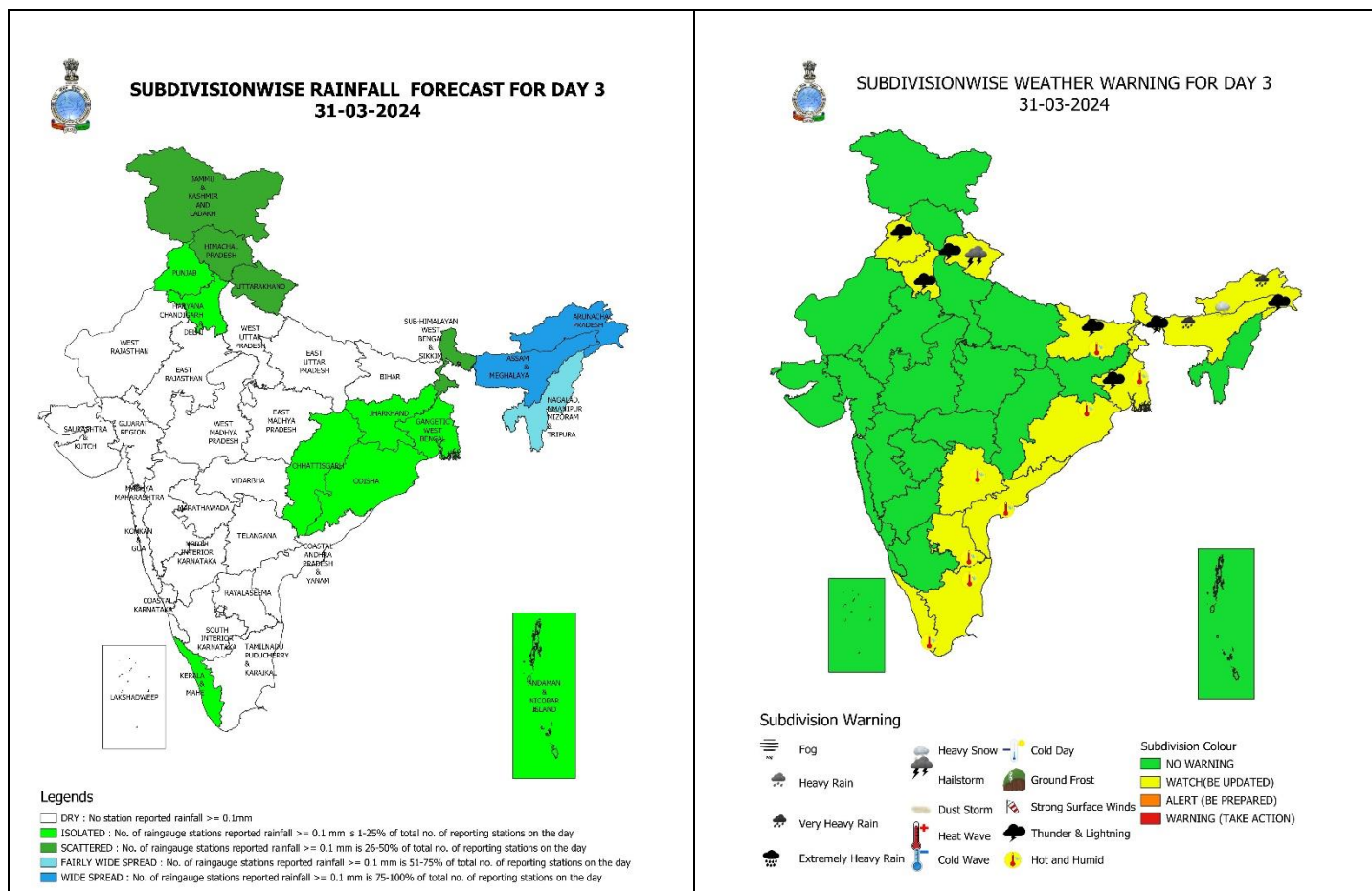
29 March (Day 1):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm** very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh and Delhi; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttar Pradesh, Rajasthan, Madhya Pradesh and Chhattisgarh; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada and Kerala & Mahe.
- ❖ **Heavy rainfall/snowfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh.
- ❖ **Warm night** very likely to prevail in isolated pockets over Madhya Pradesh, Vidarbha, Marathwada, Madhya Maharashtra and Gujarat Region.
- ❖ **Heat wave conditions** very likely at isolated places over Madhya Pradesh, Vidarbha and North Interior Karnataka.
- ❖ **Hot and humid weather** very likely to prevail over Odisha, Konkan & Goa, Saurashtra & Kutch, Gujarat Region, Rayalaseema, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.



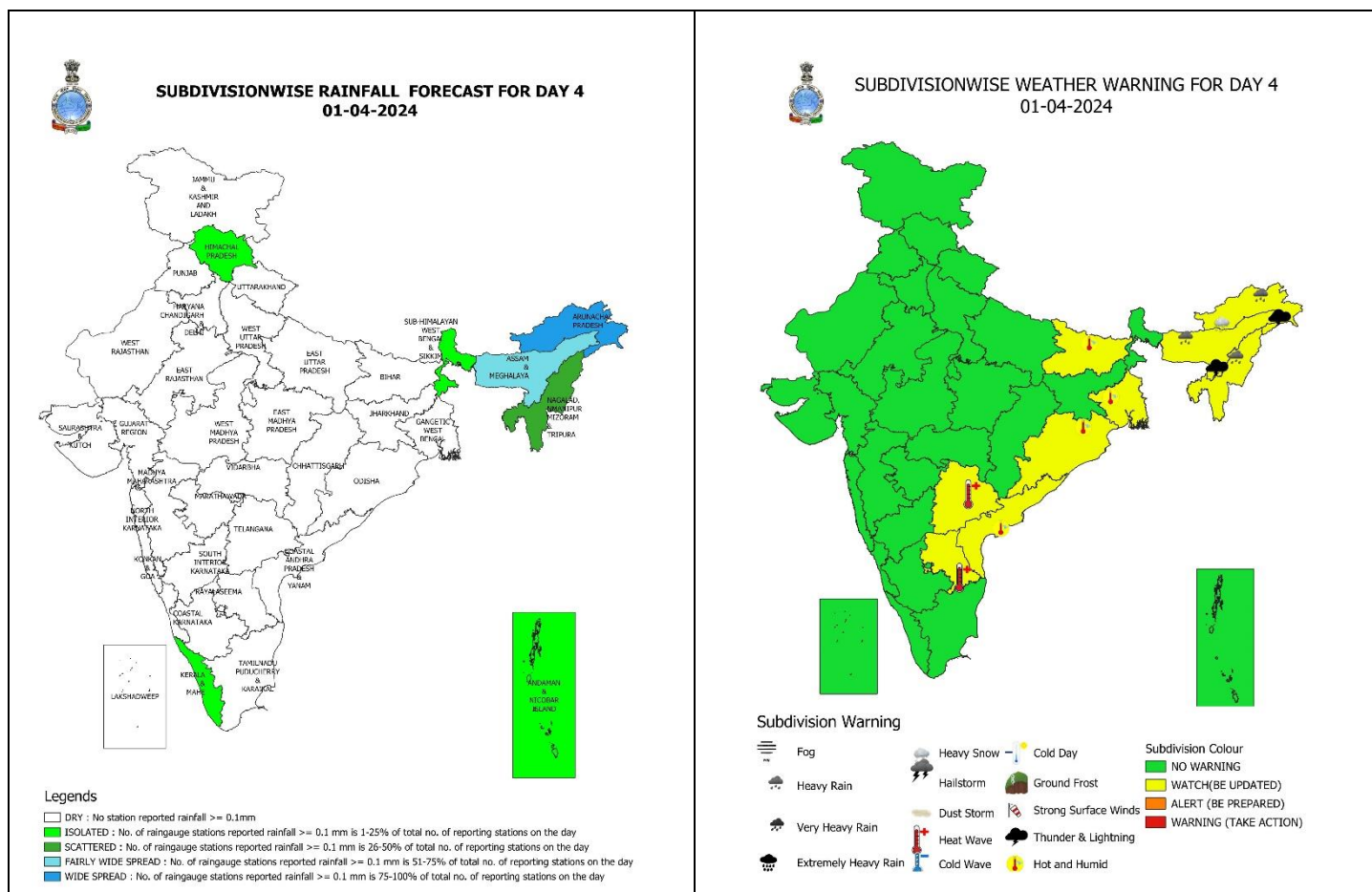
30 March (Day 2):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm** very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh and Delhi; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Madhya Maharashtra and Marathwada.
- ❖ **Heavy rainfall/snowfall** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Arunachal Pradesh; **Heavy rainfall** at isolated places over Assam & Meghalaya.
- ❖ **Warm night** very likely to prevail in isolated pockets over Madhya Pradesh, Vidarbha, Marathwada and Madhya Maharashtra.
- ❖ **Heat wave conditions** very likely at isolated places over Madhya Pradesh, Vidarbha and North Interior Karnataka.
- ❖ **Hot and humid weather** very likely to prevail over Odisha, Konkan & Goa, Saurashtra & Kutch, Gujarat Region, Rayalaseema, Telangana, north Coastal Andhra Pradesh, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.



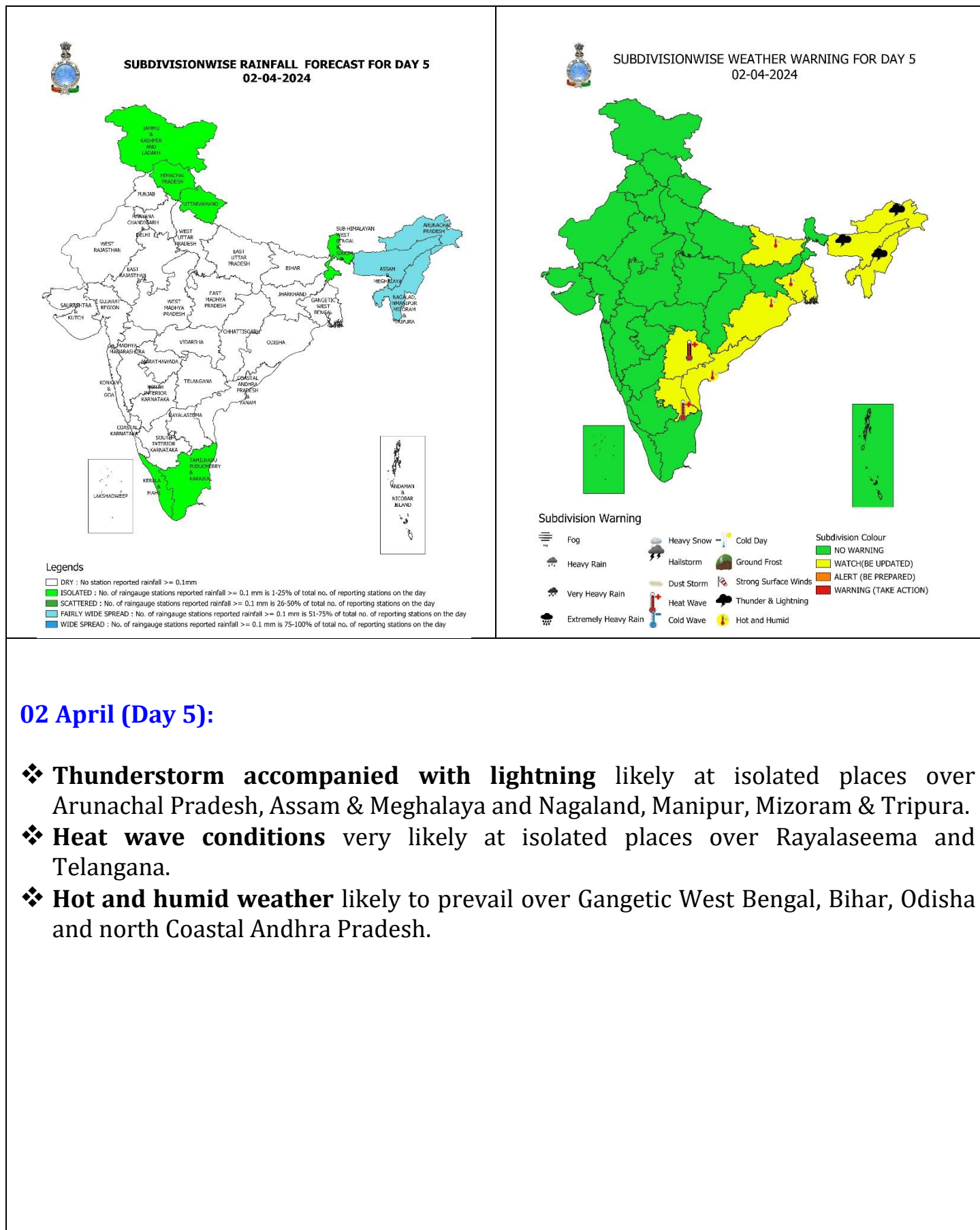
31 March (Day 3):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 30-40 kmph) & hailstorm** very likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, Haryana, Chandigarh, Sub-Himalayan West Bengal & Sikkim and Gangetic West Bengal; **with lightning** at isolated places over Bihar and Arunachal Pradesh.
- ❖ **Heavy to very heavy rainfall/ snowfall** very likely at isolated places over Arunachal Pradesh; **Heavy to very heavy rainfall** at isolated places over Assam & Meghalaya.
- ❖ **Hot and humid weather** very likely to prevail over Gangetic West Bengal, Bihar, Odisha, Rayalaseema, Telangana, Kerala & Mahe, north Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal.



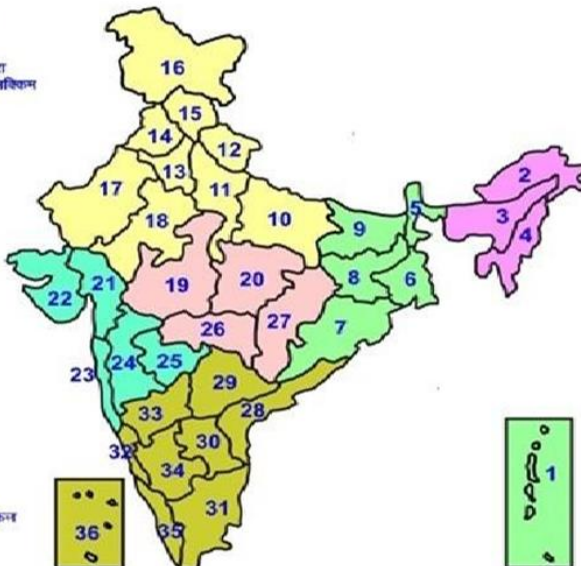
01 April (Day 4):

- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Heavy rainfall/snowfall** very likely at isolated places over Arunachal Pradesh; **Heavy rainfall** at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Heat wave conditions** very likely at isolated places over Rayalaseema and Telangana.
- ❖ **Hot and humid weather** likely to prevail over Gangetic West Bengal, Bihar, Odisha and north Coastal Andhra Pradesh.



LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप-हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 गंगोत्री पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा, चंडीगढ़ 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 कोकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 उत्तरीसमूह
- 28 तटीय आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 दक्षिण तेलंगाना
- 31 तमिलनाडु, पुदुचेरी एवं काराईकल
- 32 तटस्थ 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. Odisha
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. Marathwada
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)

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

* 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)

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 *

Rain/ Snow *



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 62-87 kmph

Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Strom: Wind speed > 220 kmph (> 119 knots)

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

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

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

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