

Friday, April 26, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- ❖ A Western Disturbance as a cyclonic circulation lies over south Iran in middle & upper tropospheric levels. An induced cyclonic circulation is likely to form over West Rajasthan in lower tropospheric levels on 26th April, 2024. Under their influence:
 - ✓ Scattered to fairly widespread light to moderate rainfall/snowfall accompanied with **thunderstorm, lightning** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and isolated rainfall over Uttarakhand during 26th-28th April, 2024 with possibility of **hailstorm over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 26th & 27th and Himachal Pradesh on 27th & 28th April, 2024.**
 - ✓ Isolated **Heavy rainfall** also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 27th & 28th; over Himachal Pradesh on 27th April, 2024.
 - ✓ Isolated rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Punjab during 26th-28th and Haryana-Chandigarh-Delhi on 26 & 27th; over Rajasthan and West Uttar Pradesh on 26th April, 2024.
 - ✓ Isolated **Hailstorm** very likely over Punjab and Haryana on 26th & 27th April, 2024.
 - ✓ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh and south Rajasthan during 26th-28th April.
- ❖ A cyclonic circulation lies over Marathwada & adjoining Madhya Maharashtra and a trough/wind discontinuity runs from this cyclonic circulation to north coastal Tamil Nadu in lower tropospheric levels. Another cyclonic circulation lies over central parts of south Madhya Pradesh and a trough/wind discontinuity runs from this cyclonic circulation over to South Interior Karnataka in lower tropospheric levels. Under their influence:
 - ✓ Isolated light rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Madhya Maharashtra, Marathwada, Madhya Pradesh, Vidarbha, Chhattisgarh on 26th & 27th April, 2024.
 - ✓ Isolated **Hailstorm** very likely over north West Madhya Pradesh on 26th & 27th and East Madhya Pradesh on 27th April, 2024.
 - ✓ Isolated light to moderate rainfall accompanied with isolated **thunderstorm & lightning** very likely over Kerala & Mahe and Coastal Andhra Pradesh & Yanam on 26th April, 2024.
- ❖ A cyclonic circulation lies over northeast Assam in lower tropospheric levels. Under its influence:
 - ✓ Fairly widespread to widespread light to moderate rainfall/snowfall accompanied with isolated **thunderstorm & lightning & gusty winds (30-50 kmph)** very likely over Arunachal Pradesh and scattered to fairly widespread rainfall over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 26th -30th April, 2024.
 - ✓ Isolated light to moderate rainfall accompanied with isolated **thunderstorm & lightning** very likely over Sikkim on 28th April, 2024.
 - ✓ **Isolated heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya on 28th April, 2024.

Maximum temperature observation:

- ❖ Yesterday, **maximum temperatures** are in the range of **42-44°C** over many parts of Odisha & Rayalaseema; in some parts of Gangetic West Bengal, Vidarbha & Telangana and in isolated pockets over Chhattisgarh, East Uttar Pradesh, Madhya Pradesh & Madhya Maharashtra; **40-42°C** over many parts of Bihar, Rayalaseema, Jharkhand, Marathwada and Coastal Andhra Pradesh & Yanam; in some parts of Gujarat state and Tamil Nadu and in isolated pockets over Sub-Himalayan West Bengal, Haryana-Chandigarh-Delhi & West Uttar Pradesh. These are **above normal by 4-6°C** over many parts of West Bengal; at isolated pockets over Bihar, Odisha, Telangana and Tamil Nadu and **above normal by 2-4°C** over many parts of Andhra Pradesh; in some parts of East Uttar Pradesh & Chhattisgarh and in isolated pockets over Haryana-Chandigarh-Delhi, Rajasthan, Madhya Pradesh and Vidarbha.

Heat Wave, Warm Night and Hot & Humid weather warning for next 5 days:

- ❖ **Heat Wave to severe heat wave conditions** very likely to prevail in many places over Gangetic West Bengal, in some parts over Odisha and in isolated pockets over Sub-Himalayan West Bengal & Sikkim during next 5 days. **Heat wave conditions** in isolated pockets over Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, East Uttar Pradesh during next 5 days and West Uttar Pradesh during 26th-30th; Konkan during 27th-30th April.
- ❖ **Hot and humid weather** very likely to prevail over Tripura, Kerala & Mahe, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal during 26th-28th; Assam & Meghalaya during 26th-28th; Konkan & Goa on 26th April, 2024.
- ❖ **Warm night** very likely to prevail over Odisha during 27th-30th 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.

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Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Madhya Pradesh and Odisha.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **NIL**.
- ❖ Yesterday, **Heat Wave conditions in many places with severe heat wave in isolated pockets** prevailed over Gangetic West Bengal and **heat wave conditions** in isolated pockets over Sub-Himalayan West Bengal, Bihar, Odisha and Telangana. **Heat wave conditions have been prevailing over Odisha since 15th and over Gangetic West Bengal since 17th April.**
- ❖ **Minimum Temperature Departures (as on 25-04-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places Gangetic West Bengal; at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Madhya Maharashtra; **above normal (1.6°C to 3.0°C)** at a few places over Konkan & Goa and Kerala & Mahe and at isolated places over Assam & Meghalaya East Uttar Pradesh, Bihar, West Madhya Pradesh, Gujarat state and West Rajasthan. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, West Uttar Pradesh, East Madhya Pradesh, Haryana-Chandigarh-Delhi, Chhattisgarh and Vidarbha and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 18.4°C** was reported at **Karnal (Haryana)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 25-04-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over West Bengal & Sikkim; at isolated places over Bihar and Odisha; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; at isolated places over Assam & Meghalaya, East Uttar Pradesh and Telangana; **above normal (1.6°C to 3.0°C)** at most places over Coastal Andhra Pradesh & Yanam and Rayalaseema; at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Chhattisgarh and Lakshadweep; at isolated places over Haryana-Chandigarh-Delhi, West Rajasthan, Madhya Pradesh, Jharkhand, Saurashtra & Kutch, Vidarbha, Konkan & Goa and Andaman & Nicobar Islands and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 44.0°C** was reported at **Kothagudem (Telangana)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Western Disturbance as a cyclonic circulation in middle & upper tropospheric westerlies over south Iran & neighbourhood between 3.1 & 9.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Marathwada & adjoining Madhya Maharashtra at 0.9 km above mean sea level persists.
- ❖ The trough/wind discontinuity from above cyclonic circulation over Marathwada & adjoining Madhya Maharashtra to north coastal Tamil Nadu across North interior Karnataka and Rayalaseema at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over central parts of south Madhya Pradesh & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The trough/wind discontinuity from above cyclonic circulation over central parts of south Madhya Pradesh to South Interior Karnataka across Vidarbha and Marathwada at 1.5 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 03rd May, 2024)

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

Weather Outlook for subsequent 3 days (During 03rd-05th May, 2024)

- ❖ Isolated to scattered light/moderate rainfall/snowfall likely over Northeast and Northwest India.
- ❖ Isolated light rainfall likely over plains of Central India, South Interior Karnataka and Kerala & Mahe.
- ❖ Dry weather likely to prevail over rest parts of the country.

Table-1

* 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.
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7 Days Rainfall Forecast

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

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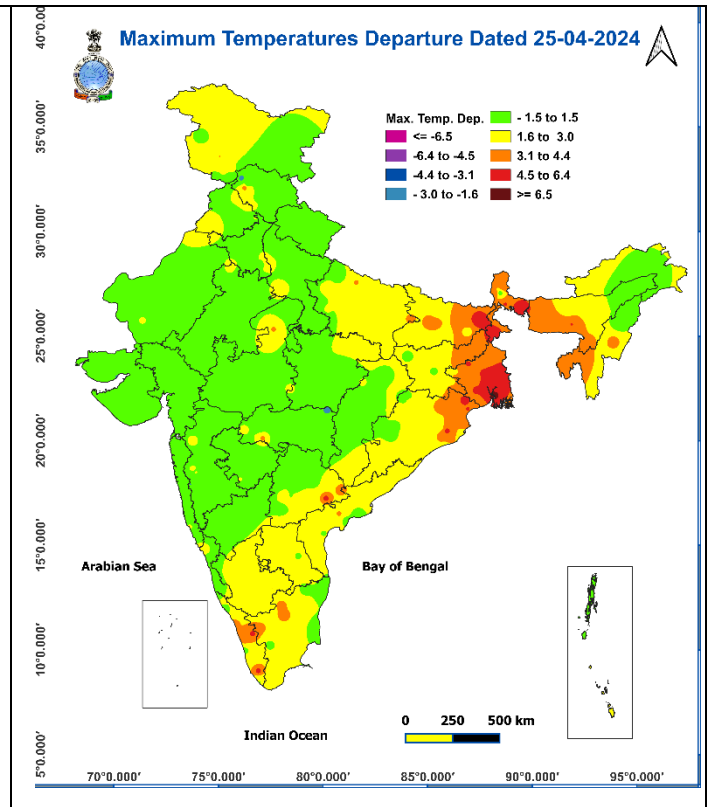
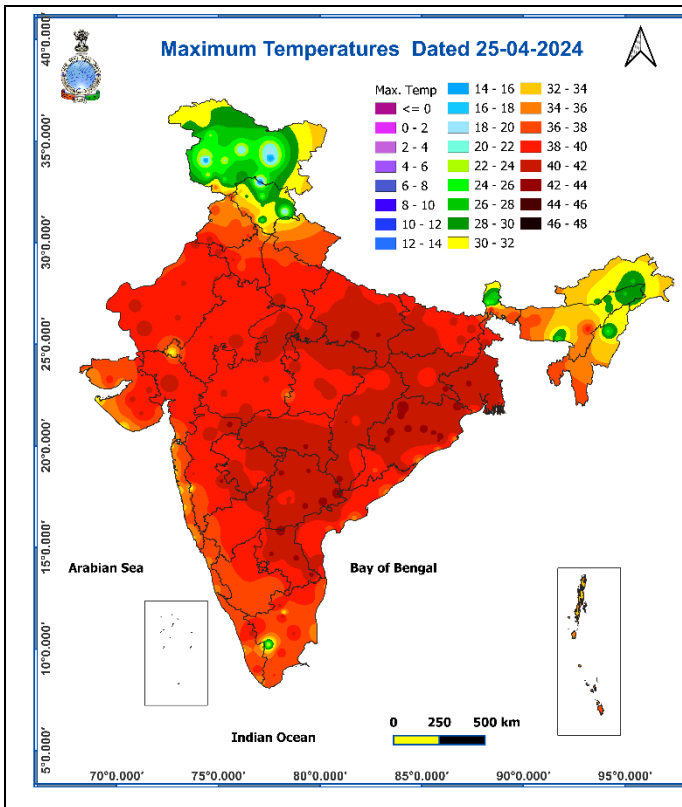


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

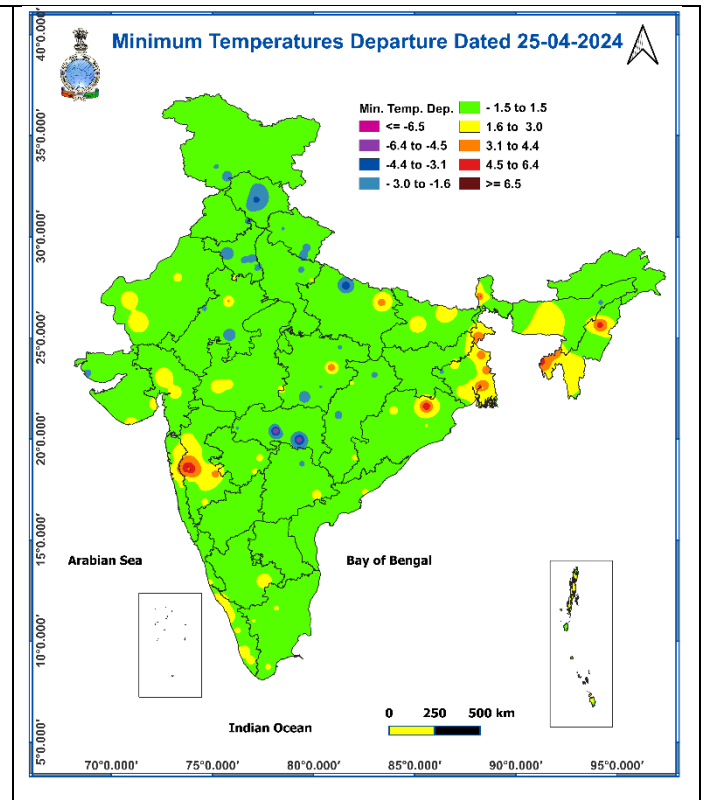
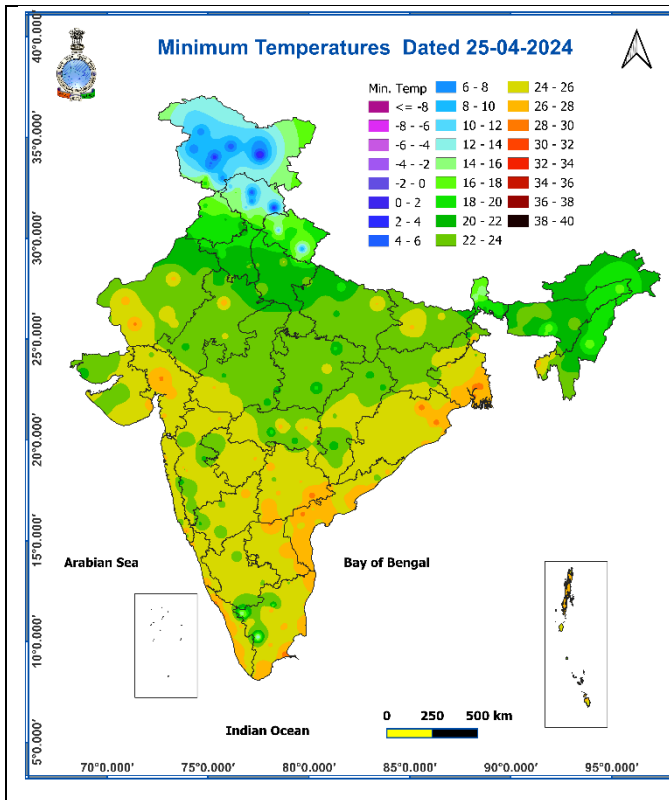
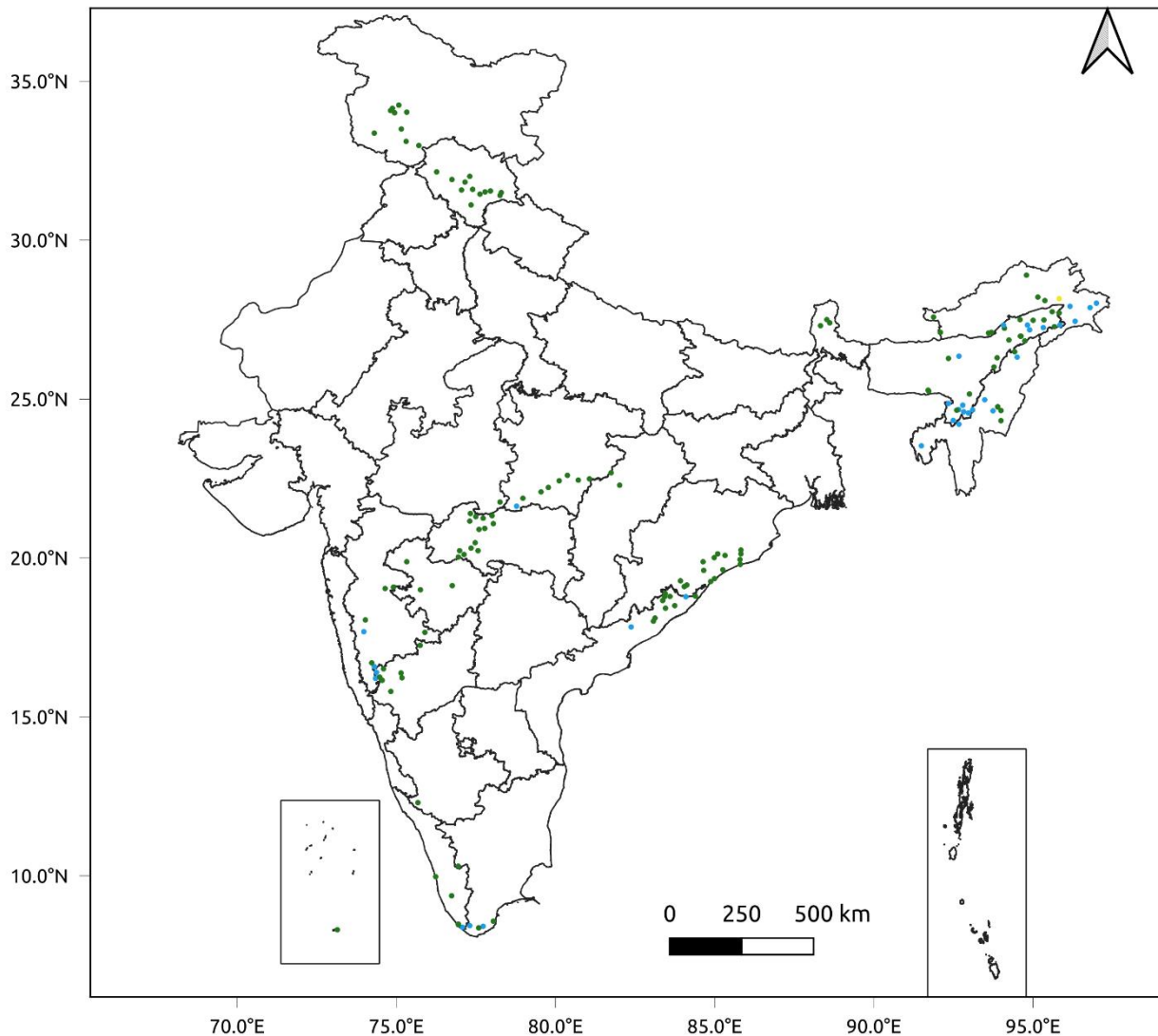


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

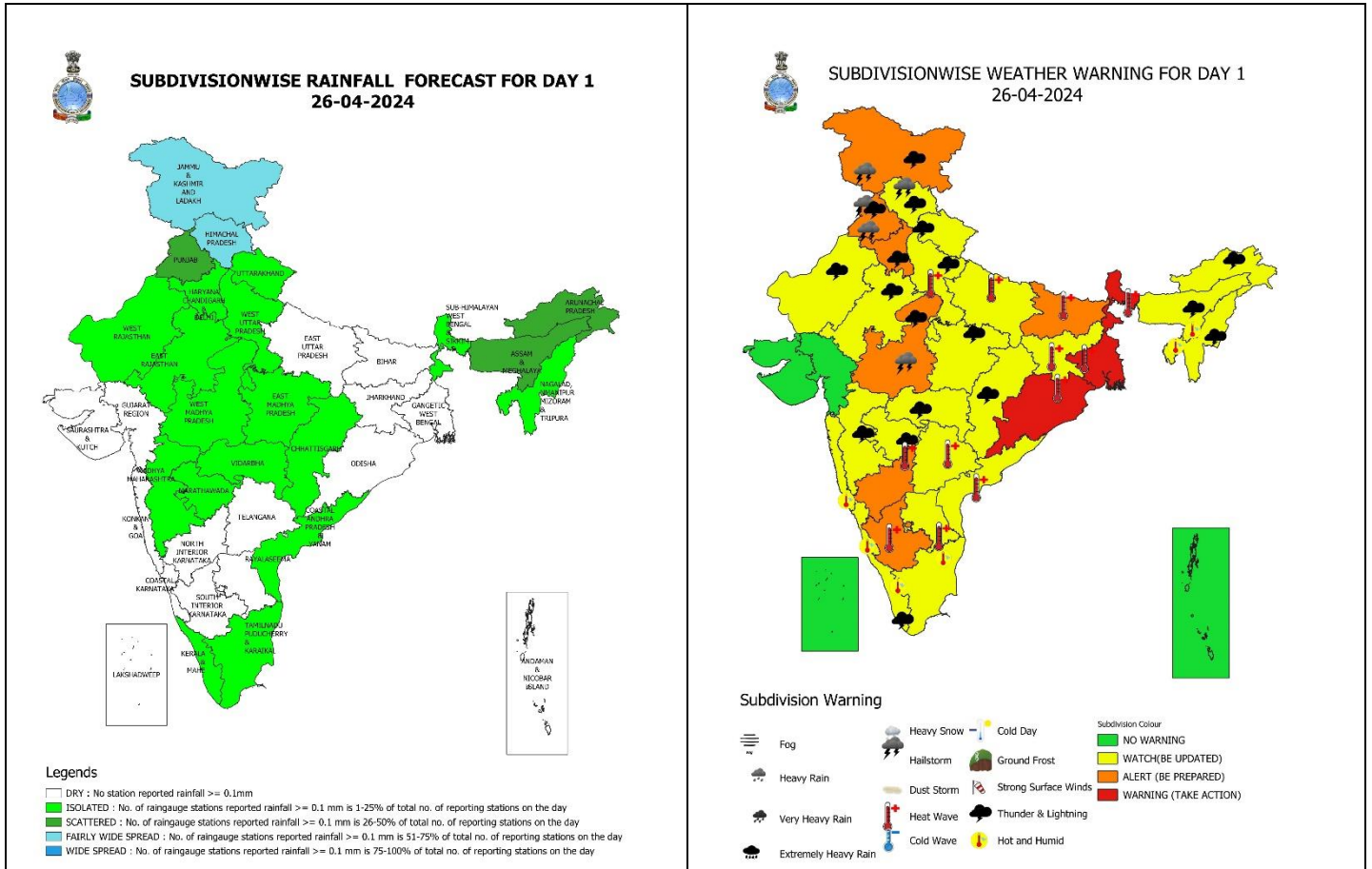


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 24-4-2024 to 0830 IST of 25-4-2024



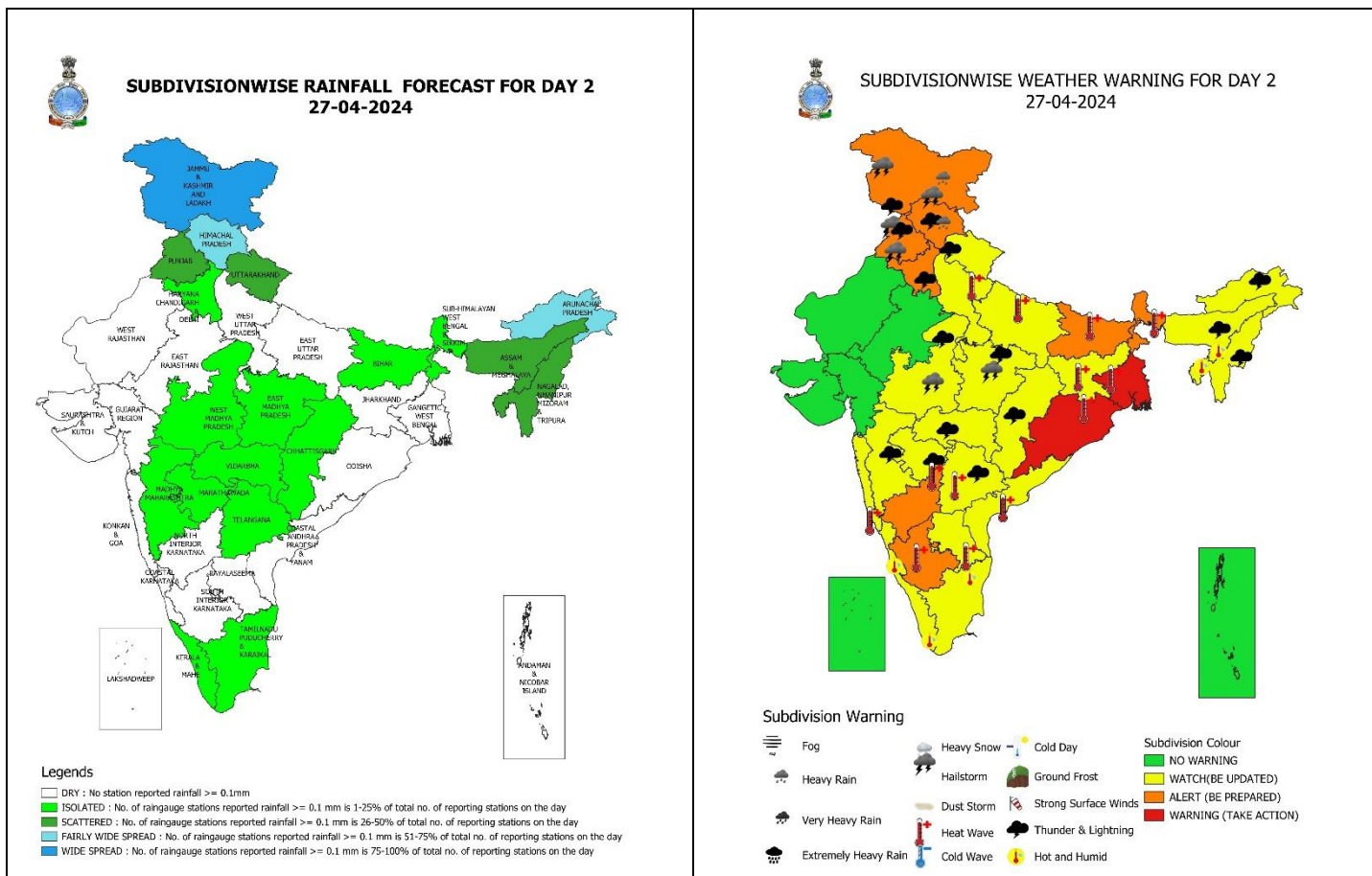
Legends

- 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)



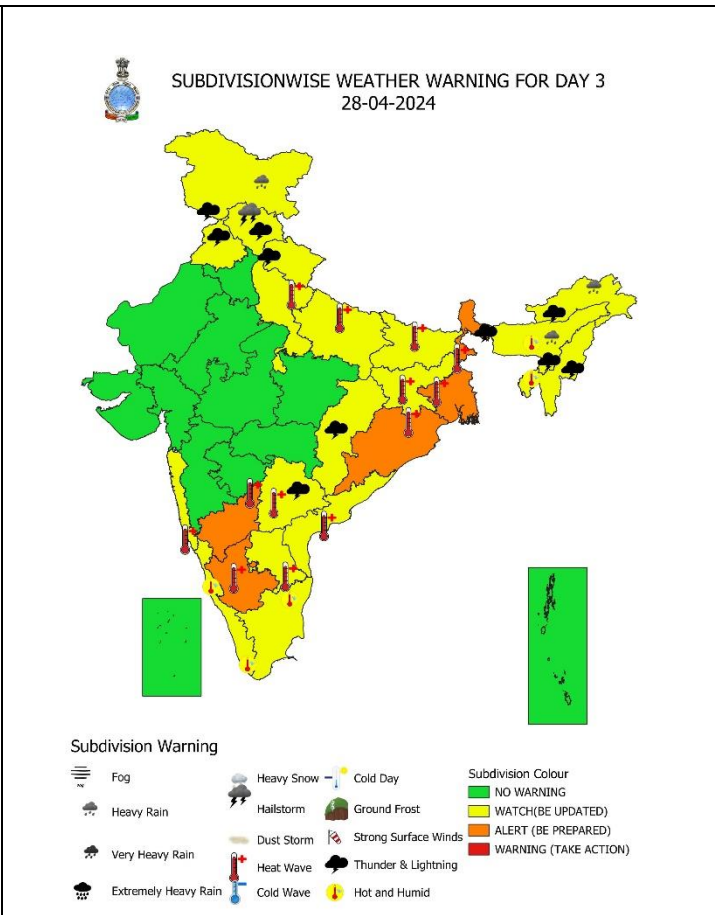
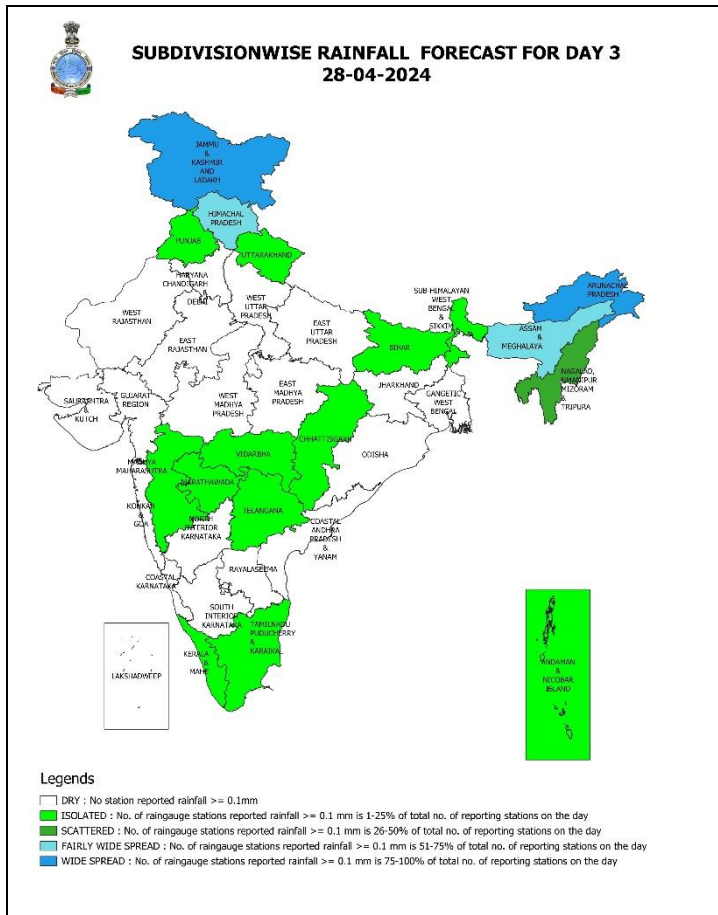
26 April (Day 1):

- ❖ **Thunderstorm accompanied with squally winds (speed reaching 50-60 kmph)** very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty winds (speed reaching 40-50 kmph) with hail** very likely at isolated places over Punjab, Haryana-Chandigarh and West Madhya Pradesh; **with Duststorm, lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over West Rajasthan; **with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over East Rajasthan; **with lightning and hailstorm** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **with gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, West Uttar Pradesh, Vidarbha, Madhya Maharashtra and Marathwada; **with lightning** at isolated places over Chhattisgarh, East Madhya Pradesh, Arunachal Pradesh and Kerala & Mahe.
- ❖ **Hot and humid weather** very likely to prevail over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in many places over Gangetic West Bengal; at few places over north Odisha and in isolated pockets over Sub-Himalayan West Bengal; **heat wave conditions** in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.



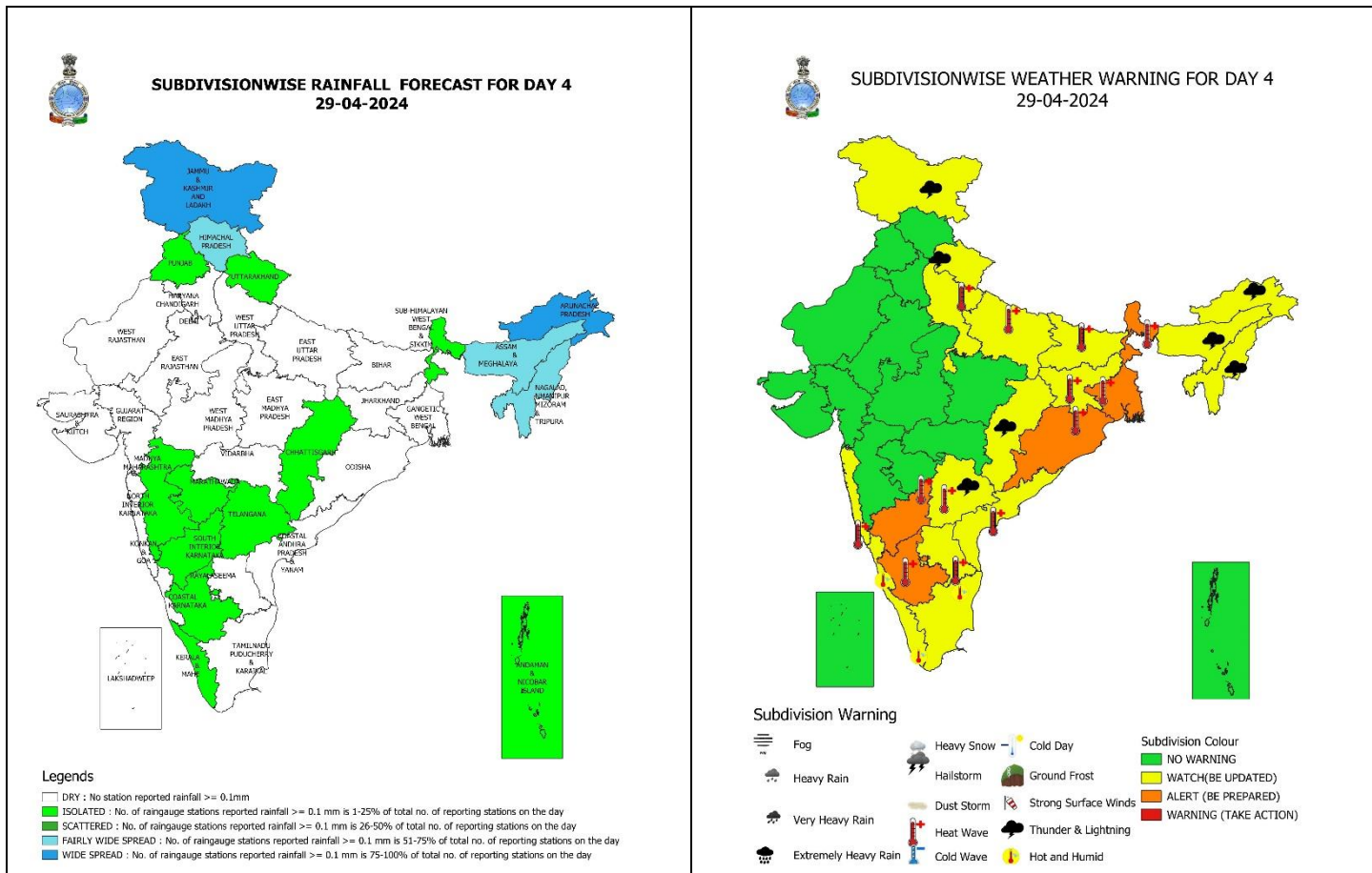
27 April (Day 2):

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



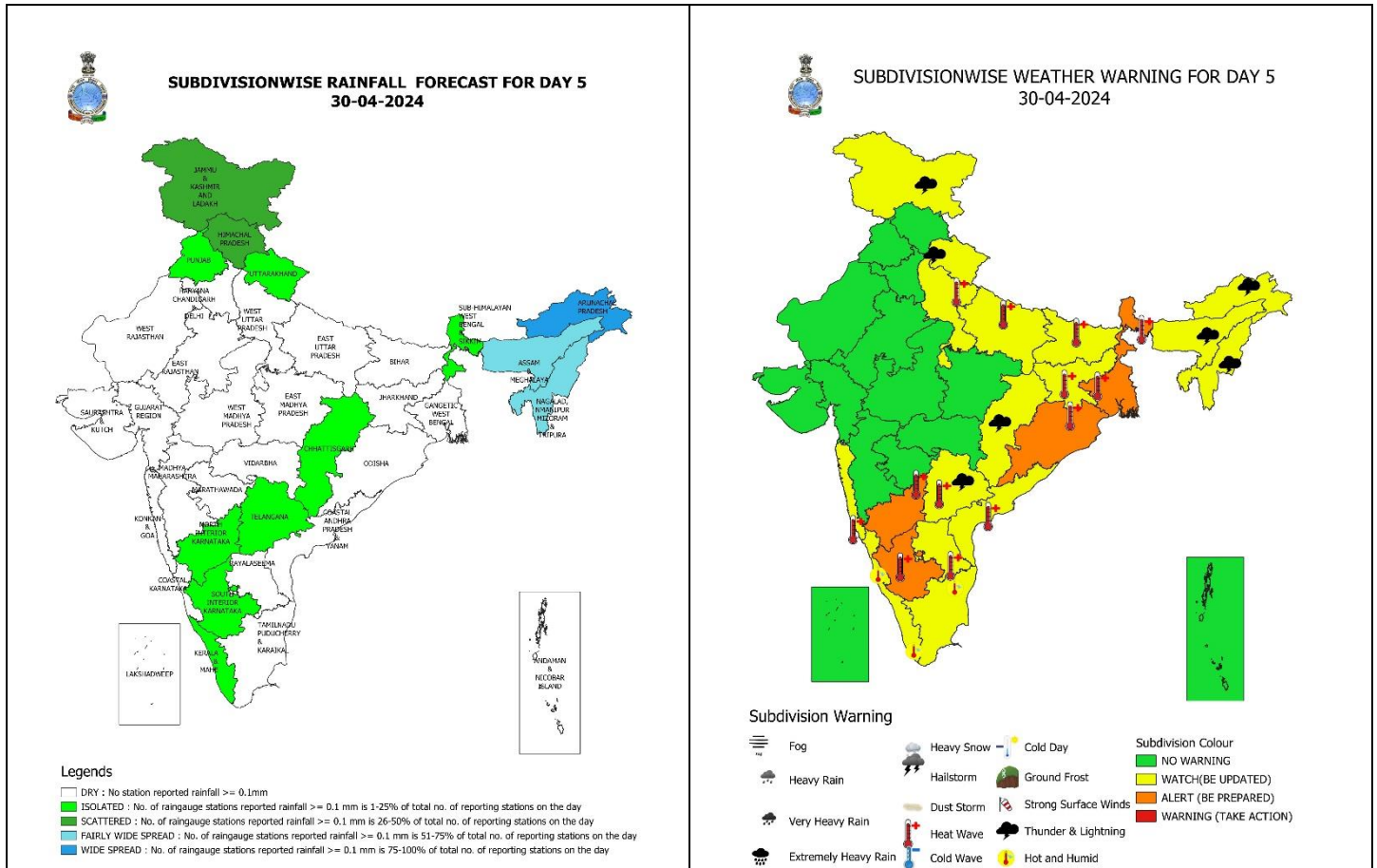
28 April (Day 3):

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



29 April (Day 4):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Chhattisgarh; **with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Uttarakhand and Telangana; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Hot and humid weather** likely to prevail over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in many places over Gangetic West Bengal; at few places over Odisha and in isolated pockets over Sub-Himalayan West Bengal; **heat wave conditions** in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Warm night** likely to prevail at isolated places over Odisha.

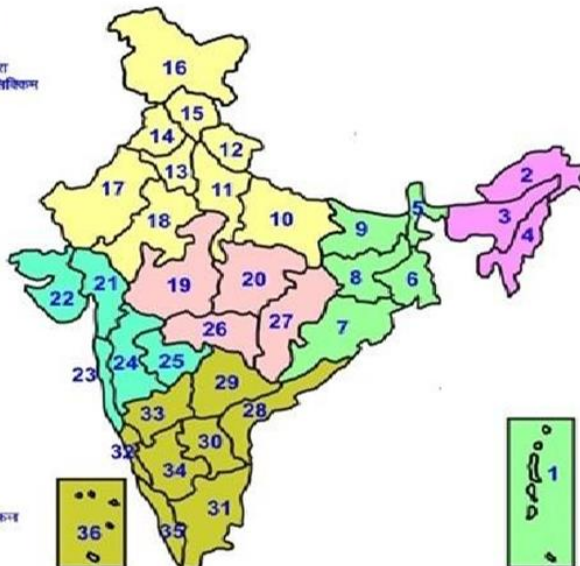


30 April (Day 5):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Chhattisgarh; **with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Uttarakhand and Telangana; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Hot and humid weather** likely to prevail over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in many places over Gangetic West Bengal; at few places over Odisha and in isolated pockets over Sub-Himalayan West Bengal; **heat wave conditions** in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Warm night** likely to prevail at isolated places over Odisha.

LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 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
- 22 सागराश्रम
- 23 कर्नाट प्रदेश
- 24 मध्य प्रदेश
- 25 मराठवाड़ा
- 26 छत्तीसगढ़
- 27 तेलंगाना
- 28 तमिलनाडु, पुदुचेरी एवं कराईकल
- 29 तमिलनाडु, पुदुचेरी एवं कराईकल
- 30 तमिलनाडु, पुदुचेरी एवं कराईकल
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तमिलनाडु, पुदुचेरी एवं कराईकल
- 33 तमिलनाडु, पुदुचेरी एवं कराईकल
- 34 तमिलनाडु, पुदुचेरी एवं कराईकल
- 35 तमिलनाडु, पुदुचेरी एवं कराईकल
- 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. Tamilnada, 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

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



Rain/ Snow *

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



Heat Wave

When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.
Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .
Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$.



Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres
Dense Fog: when the visibility between 50- 200 metres
Very Dense Fog: when the visibility < 50 metres



Thunderstorm

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



Dust/Sand Storm

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



Frost

Ice deposits on ground

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



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph
Severe: Wind speed 62-87 kmph
Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclone

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

* 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)