

Saturday, April 27, 2024
Time of Issue: 1340 hours IST
(MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- ❖ A Western Disturbance as a cyclonic circulation lies over central Afghanistan with a trough along 64°E to the north of 25°N in middle & upper tropospheric levels. An induced cyclonic circulation lies over north Haryana in lower tropospheric levels. Under their influence:
 - ✓ Fairly widespread to 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 27th-30th April, 2024 with possibility of **hailstorm over Himachal Pradesh and Uttarakhand during 27th-29th April, 2024.**
 - ✓ Isolated **Heavy rainfall** also likely over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad during 27th-29th April and over Himachal Pradesh on 27th & 29th April, 2024.
 - ✓ Isolated to scattered rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** very likely over Punjab, Haryana-Chandigarh-Delhi during 27th-29th and over northwest Uttar Pradesh on 27th April, 2024.
 - ✓ Isolated **Hailstorm** very likely over Punjab on 27th & 28th and over Haryana on 27th April, 2024.
 - ✓ **Strong surface winds (25-35 kmph)** very likely to prevail over East Uttar Pradesh, West Rajasthan on 27th & 28th April.
- ❖ A trough/wind discontinuity runs from Marathwada to north Tamil Nadu 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 27th & 28th April, 2024.
 - ✓ Isolated **Hailstorm** very likely over West Madhya Pradesh on 27th and over East Madhya Pradesh on 27th & 28th April, 2024.
 - ✓ Isolated light to moderate rainfall accompanied with isolated **thunderstorm & lightning** very likely over Kerala & Mahe on 27th, 28th & 30th and over Coastal Andhra Pradesh & Yanam and Telangana on 28th & 29th 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 (40-50 kmph)** very likely over Arunachal Pradesh and scattered to fairly widespread rainfall over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 27th April-01st May, 2024.
 - ✓ Isolated light to moderate rainfall accompanied with **thunderstorm & lightning** very likely over Sikkim on 29th April-01st May, 2024.
 - ✓ **Isolated heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya during 28th April-01st May with isolated very heavy rainfall over Arunachal Pradesh on 30th April & 01st May, 2024.

Maximum temperature observation and forecast for next 5 days:

- ❖ Yesterday, **maximum temperatures** were in the range of **42-44°C** over many parts of Odisha, Gangetic West Bengal, Rayalaseema; in some parts of Jharkhand, Bihar, Telangana, Chhattisgarh and in isolated pockets over Vidarbha, East Uttar Pradesh; **40-42°C** over many parts of West Uttar Pradesh, Haryana-Delhi; in some parts of North Interior Karnataka in isolated pockets of East Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal. These were **above normal by 4-6°C** over in many parts of Gangetic West Bengal in some parts of Bihar, Odisha; in isolated pockets of East Uttar Pradesh, Jharkhand and **above normal by 2-4°C** over many parts of West Uttar Pradesh, Haryana-Chandigarh-Delhi; in some parts of Punjab and in isolated pockets over Madhya Maharashtra, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Chhattisgarh.

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 during next 5 days. **Heat wave conditions** in isolated pockets over Bihar, Jharkhand, Rayalaseema, Interior Karnataka, Tamil Nadu, during next 5 days; Kerala & Mahe during 27th-28th; Konkan during 27th-29th and Uttar Pradesh during 28th-30th, Coastal Andhra Pradesh & Yanam during 30th April-01st May, 2024.
- ❖ **Hot and humid weather** very likely to prevail over West Assam & Meghalaya, Tripura during 27th-29th; Kerala & Mahe, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Konkan & Goa during 27th April-01st May 2024.
- ❖ **Warm night conditions very likely over** East Uttar Pradesh 27th & 28th April and Bihar on 27th April, 2024.

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Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Himachal Pradesh; at a few places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Haryana-Chandigarh-Delhi, Punjab, Vidarbha and at isolated places over Uttarakhand, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Odisha, Gujarat Region, Madhya Maharashtra, Marathwada, Chhattisgarh, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Kerala & Mahe.
- ❖ **Significant amount of rainfall** (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): **Assam & Meghalaya:** Karimganj_(dist Karimganj) 7, Matijuri (dist Hailakandi) 4, Matijuri (dist Hailakandi) 4, Badarpur (dist Karimganj) 3, B P Ghat (dist Karimganj) 3, Lala (dist Hailakandi) 3, Tezpur (dist Shonitpur) 2; **Nagaland, Manipur, Mizoram & Tripura:** Kailashahar (dist Unakoti) 5, Kailashahar (dist Unakoti) 3; **Coastal Andhra Pradesh & Yanam:** Araku Valley (dist Alluri Sitharamaraju) 3; **Himachal Pradesh:** Kothi (dist. Kullu) 3, Tissa (dist. Chamba) 2, Manali (dist. Kullu) 2; **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:** Nowgam (dist Kupwara) 3.
- ❖ 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, Jharkhand, Odisha, Rayalaseema, Interior Karnataka and Kerala & Mahe. **Heat wave conditions have been prevailing over Odisha since 15th and Gangetic West Bengal since 17th April.**
- ❖ **Hailstorm** also observed at isolated places over Haryana (Charkhi Dadri, Hissar, Narnaul).
- ❖ **Minimum Temperature Departures (as on 27-04-2024):** Minimum temperatures are **markedly above normal (5.1°C or more)** at a few places over Konkan & Goa, Madhya Maharashtra; at isolated places over Bihar; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Gangetic West Bengal, Marathwada, Gujarat Region; **above normal (1.6°C to 3.0°C)** at most places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Saurashtra & Kutch and North Interior Karnataka; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Andaman & Nicobar Islands; at isolated places over Coastal and South Interior Karnataka, Rayalaseema, East Rajasthan, Haryana-Chandigarh-Delhi and Chhattisgarh. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and **near normal** over rest parts of the country. Today, **the lowest minimum temperature** of 20.0°C is reported at **Amritsar (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 26-04-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at a few places over Gangetic West Bengal and Bihar; at isolated places over Sub-Himalayan West Bengal & Sikkim; **appreciably above normal (3.1°C to 5.0°C)** at many places over Rayalaseema; at a few places over Odisha, Telangana, Jharkhand and at isolated places over Tamil Nadu, Puducherry & Karaikal and Nagaland, Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at a few places over Chhattisgarh, Arunachal Pradesh; at isolated places over Coastal Andhra Pradesh & Yanam, Interior Karnataka, Konkan & Goa and Kerala & Mahe. These were **markedly below normal (-5.1°C or less)** at a few places over Madhya Pradesh **below normal (-1.6°C to -3.0°C)** at a few places over Gujarat state at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 44.6°C was reported at **Nandyal (Rayalaseema)** over the country.

Meteorological Analysis (Based on 0830 hours IST)

- ❖ The Western Disturbance as a cyclonic circulation over south Iran now lies over central Afghanistan between 3.1 & 5.8 km above mean sea level with a trough aloft in upper tropospheric westerlies with its axis at 7.6 km above mean sea level runs roughly along long. 64°E to the north of lat. 25°N.
- ❖ The induced cyclonic circulation over West Rajasthan now lies over north Haryana & neighbourhood and extends upto 1.5 km above mean sea level.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood persists and now extends upto 4.5 km above mean sea level.
- ❖ The cyclonic circulation lies over north Bangladesh & neighbourhood persists and now extends upto 1.5 km above mean sea level.
- ❖ The trough/wind discontinuity from Marathwada to north Tamil Nadu across Madhya Maharashtra, interior Karnataka extending upto 1.5 km above mean sea level persists.
- ❖ A cyclonic circulation lies over south Chhattisgarh & neighbourhood at 0.9 km above mean sea level.
- ❖ A cyclonic circulation lies over Comorin area & neighbourhood at 0.9 km above mean sea level.
- ❖ The trough from above cyclonic circulation over north Bangladesh to north Odisha across Gangetic West Bengal at 0.9 km above mean sea level has become less marked.

Weather Forecast for next 7 days (Upto 0830 hours IST of 04th May, 2024)

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

Weather Outlook for subsequent 3 days (During 04th-06th May, 2024)

- ❖ Isolated to scattered light/moderate rainfall likely over Northwest, Northeast & south Peninsular India.
- ❖ Dry weather likely to prevail over rest parts of the country.

Table-1

7 Days Rainfall Forecast

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

Fig. 2: Departure of Maximum Temperatures

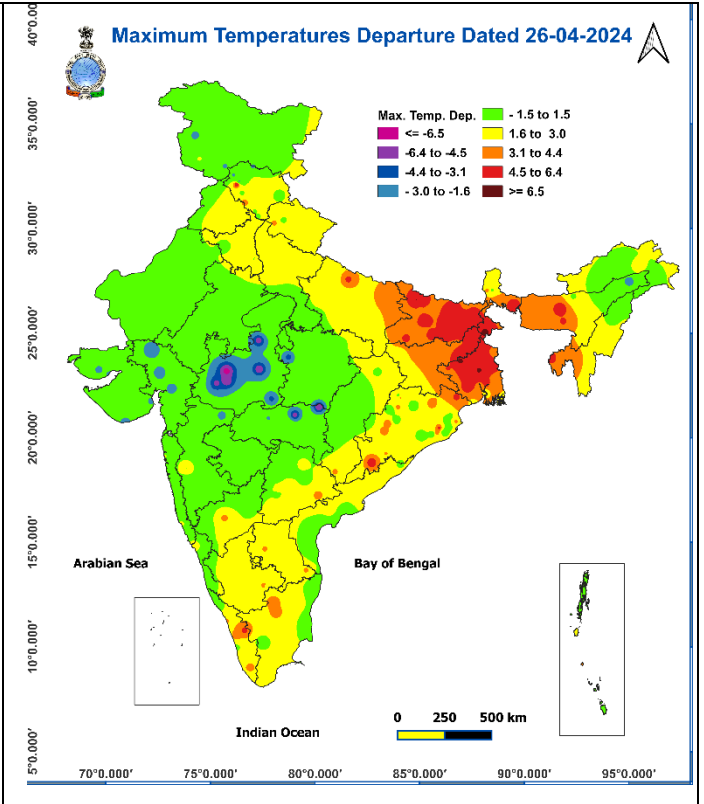
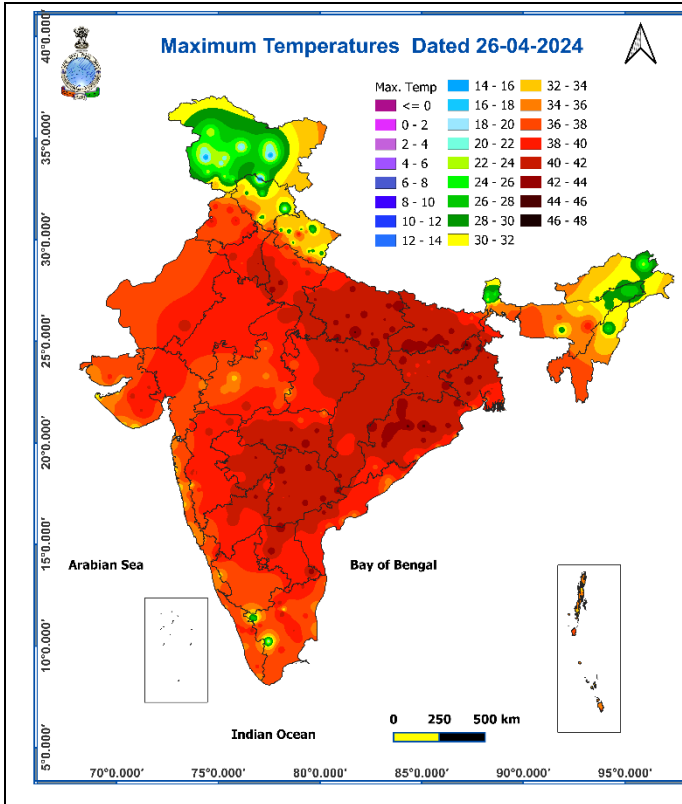
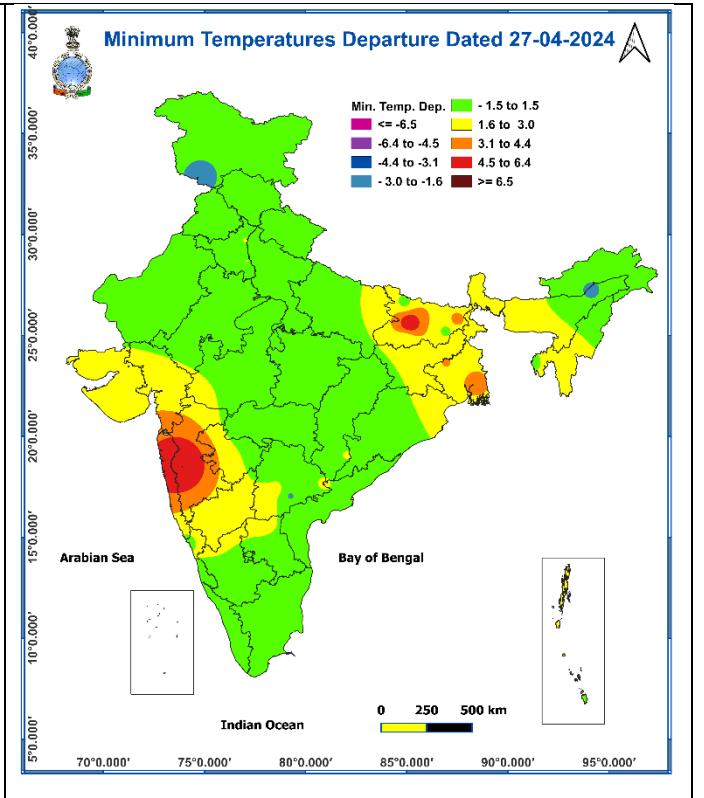
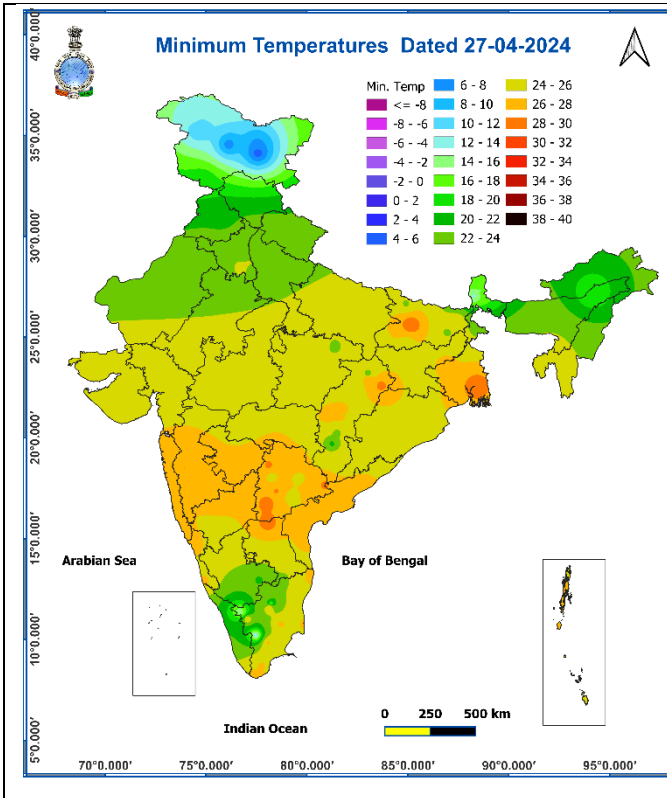


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

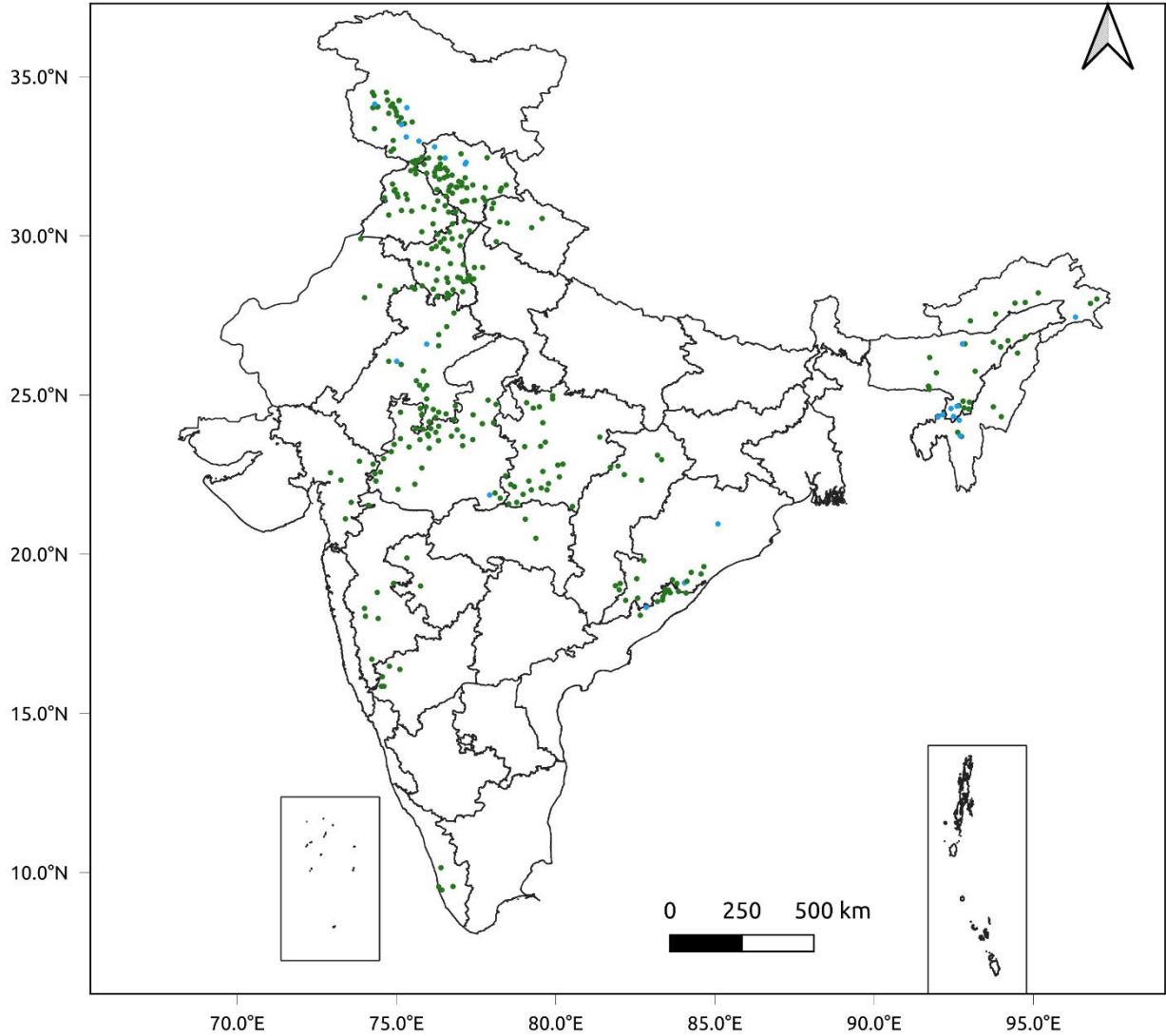


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Fig. 5: Accumulated Rainfall (mm) during past 24 hours

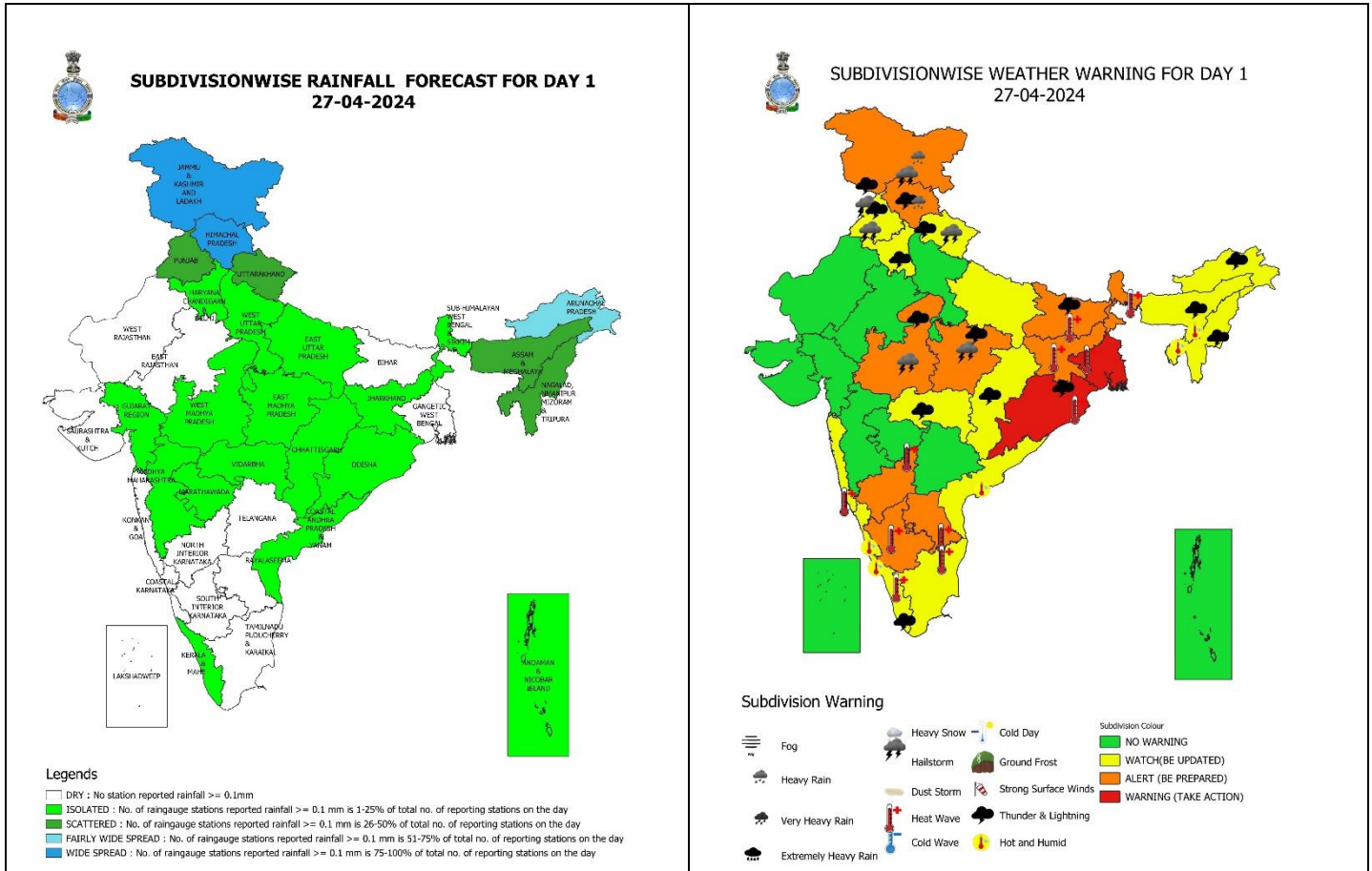


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 26-4-2024 to 0830 IST of 27-4-2024



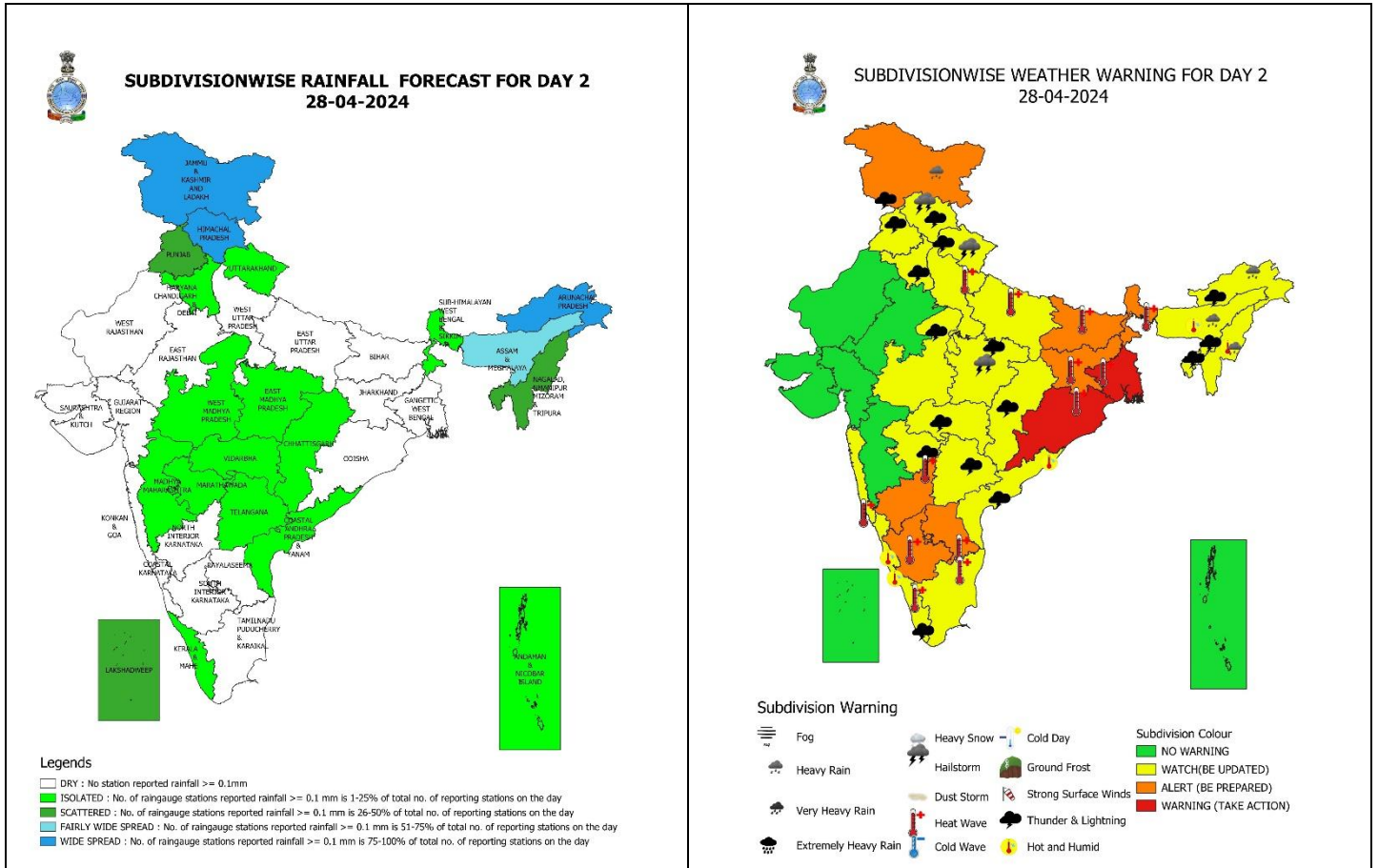
Legends

- 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)



27 April (Day 1):

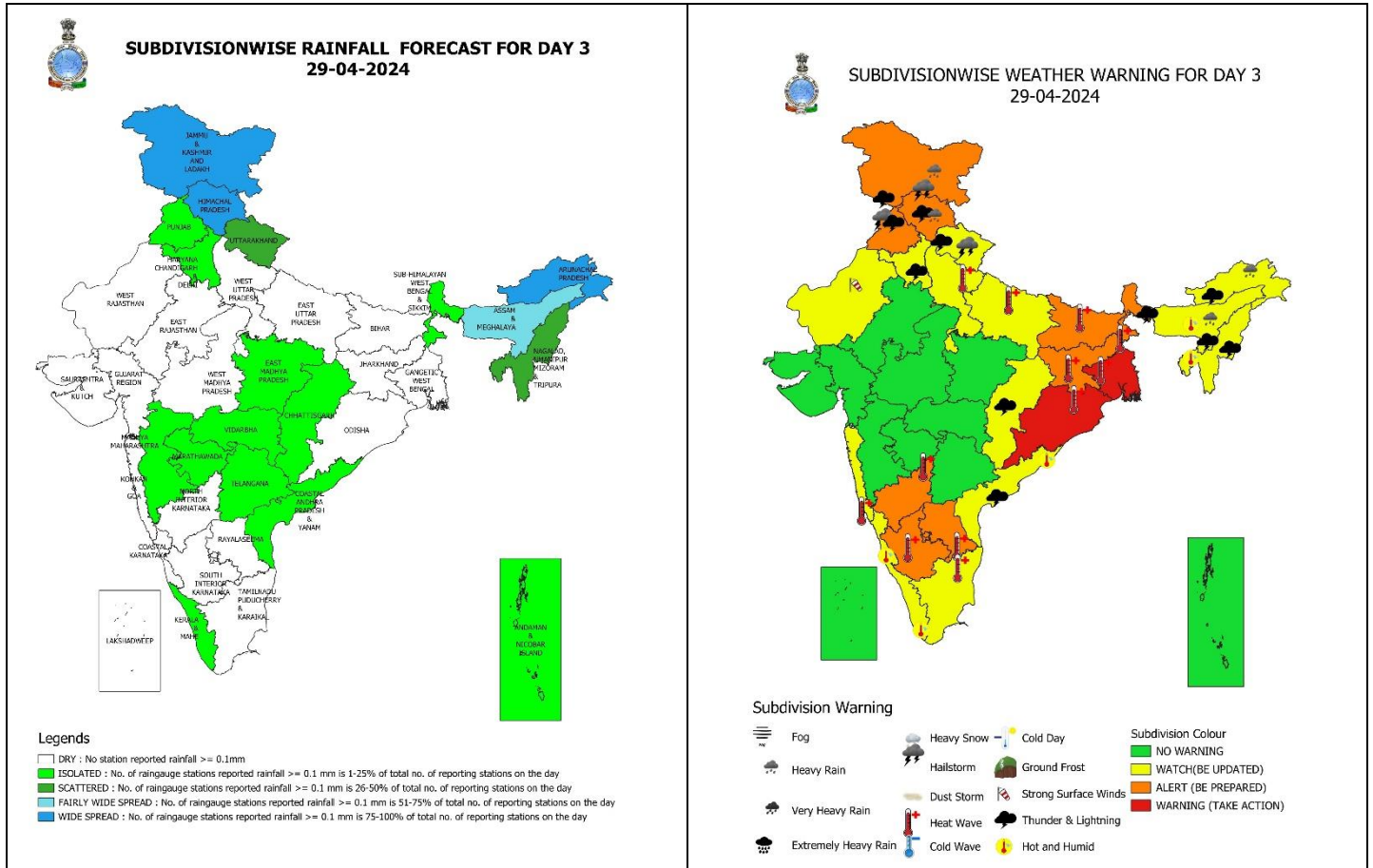
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm** very likely at isolated places over Himachal Pradesh, Punjab, Haryana-Chandigarh and Madhya Pradesh; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Vidarbha, Chhattisgarh,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



28 April (Day 2):

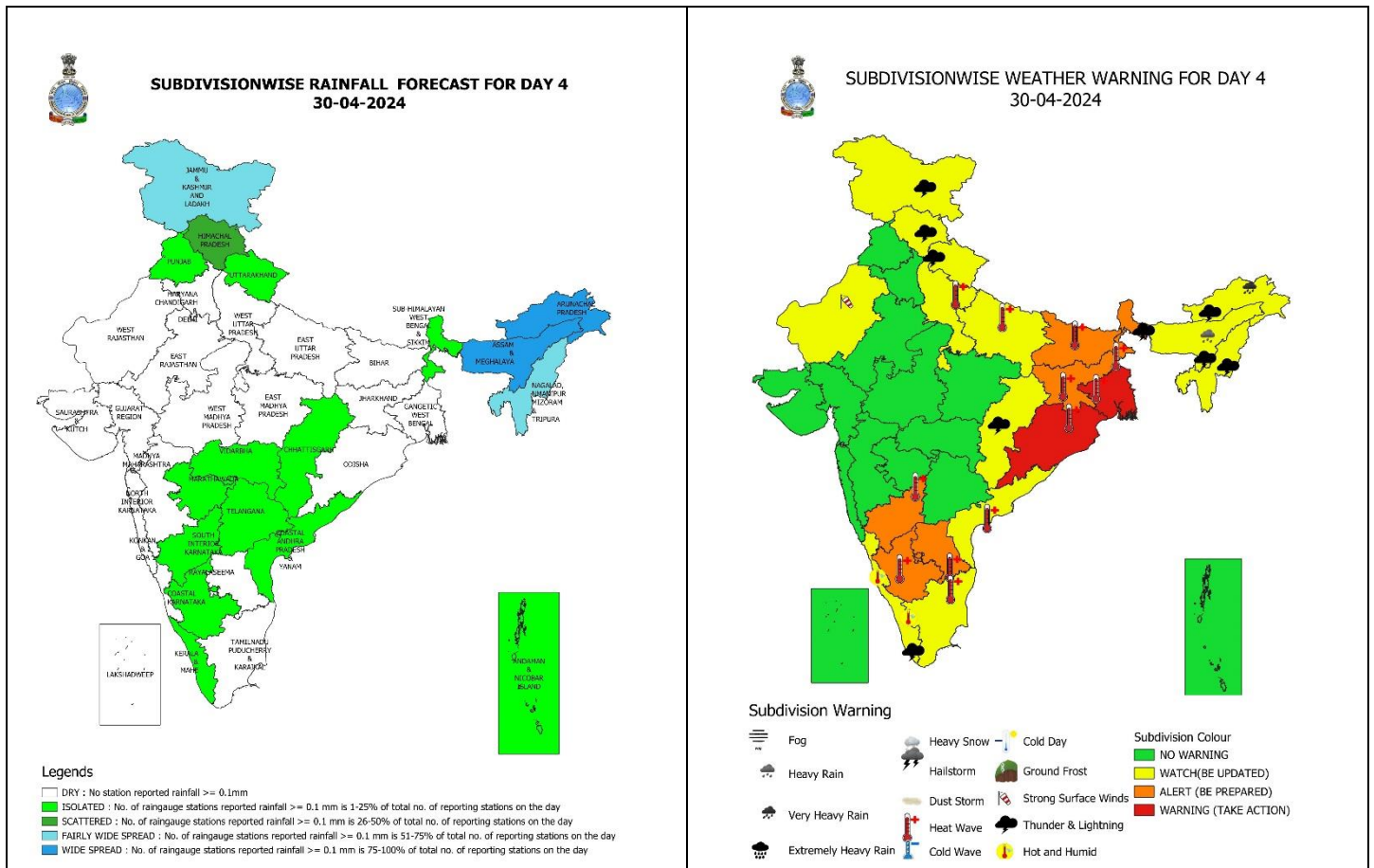
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm** very likely at isolated places over Himachal Pradesh and East Madhya Pradesh; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad,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

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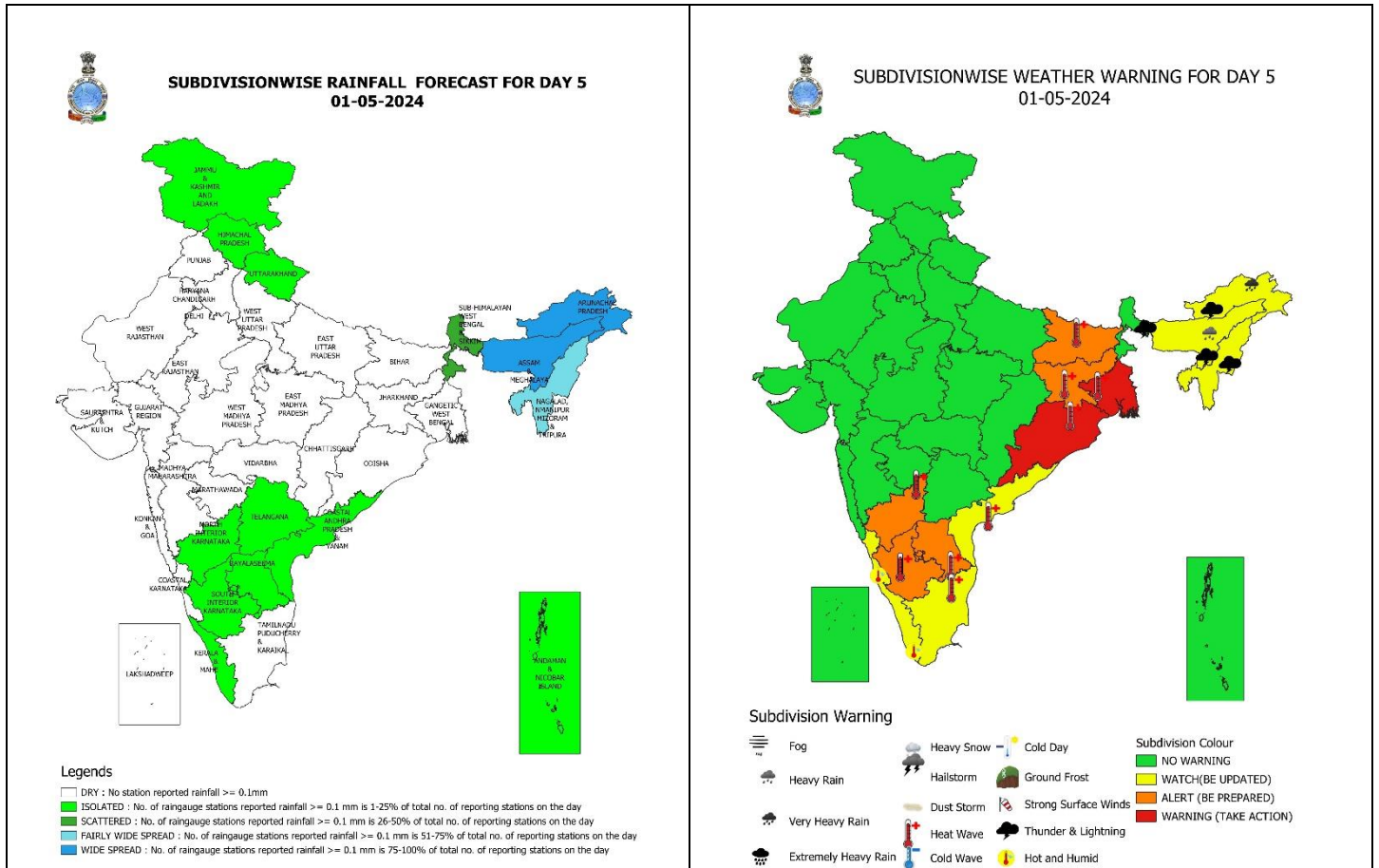
29 April (Day 3):

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



30 April (Day 4):

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

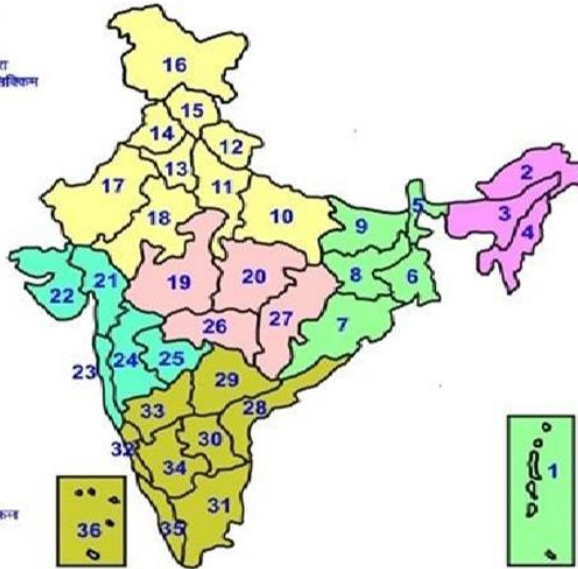


01 May (Day 5):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) at isolated places over Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Assam & Meghalaya; with lightning at isolated places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim.**
- ❖ **Heavy to very rainfall very likely at isolated places over Arunachal Pradesh; Heavy rainfall very likely at isolated places over Assam & Meghalaya.**
- ❖ **Hot and humid weather very likely to prevail over Kerala & Mahe and Coastal Karnataka.**
- ❖ **Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal; at some places over north Odisha; heat wave conditions in isolated pockets over Bihar, Jharkhand, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka.**

LEGENDS

- 1 अंडमन 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 सौराष्ट्र
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तेलंगाना
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 आंतरिक उत्तरी कर्नाटक
- 33 आंतरिक दक्षिणी कर्नाटक
- 34 केरल एवं माहे
- 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. 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



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 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)