



Thursday, April 27, 2023

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Significant Meteorological features:

- ❖ A Western Disturbance as a cyclonic circulation lies over Pakistan & neighbourhood in middle levels.
- ❖ A cyclonic circulation lies over western parts of Vidarbha and a trough/wind discontinuity runs this cyclonic circulation to South Interior Karnataka in lower levels.

Rainfall Forecast and Warnings:

Central India:

- ❖ Light/moderate scattered/fairly widespread rainfall with **thunderstorm/lightning/gusty winds** very likely over Madhya Pradesh, Vidarbha and Chhattisgarh during next 5 days.
- ❖ **Hailstorm** very likely at isolated places over Vidarbha and Chhattisgarh today.

South India:

- ❖ Light scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Andhra Pradesh, Telangana, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Kerala during 27th April-1st May and over North Interior Karnataka, Telangana on 27th; over Coastal Andhra Pradesh on 27th and over South Interior Karnataka & Rayalaseema during 29th April-1st May.
- ❖ **Hailstorm** very likely at isolated places over Telangana and North Interior Karnataka on 27th April.

East India:

- ❖ Light/moderate isolated to scattered **rainfall** with thunderstorm/lightning/gusty winds very likely over the region during next 4 days and gradual reduction thereafter.
- ❖ **Hailstorm** very likely at isolated places over Odisha on 27th & 28th and over Jharkhand 27th April.

Northeast India:

- ❖ Light/moderate scattered to fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 5 days.
- ❖ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya during 28th April-1st May and over Nagaland, Manipur, Mizoram & Tripura during 29th April-1st May.

West India:

- ❖ Light isolated to scattered rainfall with thunderstorm/lightning very likely over Madhya Maharashtra & Marathwada and light isolated rainfall over Gujarat state during next 5 days.
- ❖ **Hailstorm** activity very likely at isolated places over Madhya Maharashtra on 27th and over Marathwada on 27th & 28th April.

Northwest India:

- ❖ Light/moderate scattered rainfall/snowfall with thunderstorm/lightning very likely over Western Himalayan Region during 27th April-1st May and isolated to scattered rainfall with thunderstorm/lightning over plains of Northwest India during 27th April-1st May.
- ❖ **Hailstorm** activity very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh on 27th and over Uttarakhand during 27th April-1st May.
- ❖ **Duststorm** very likely at isolated places over Rajasthan during 27th-29th April, 2023.

Maximum Temperatures observed:

- ❖ Yesterday, Maximum Temperatures were in the range of 40-41°C over some parts of Saurashtra & Kutch and at isolated places over southwest Madhya Pradesh & Madhya Maharashtra. They were in the range of 35-40°C at most places over West Rajasthan, Telangana, Marathwada, Karnataka, Kerala & Mahe; at many places over Gujarat Region, Madhya Pradesh, Vidarbha, Andhra Pradesh, Madhya Maharashtra & Tamilnadu; at few places over East Rajasthan, south Haryana, Bihar, West Bengal & Sikkim, Odisha & Chhattisgarh; at isolated places over Konkan and they are below 35°C over rest parts of the country.
- ❖ Maximum Temperatures were below normal by 3-6°C over most parts of Uttar Pradesh; many parts of East Rajasthan, Haryana, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Jharkhand, Gangetic West Bengal and Telangana; over some parts of West Madhya Pradesh and Bihar and at isolated pockets over Andhra Pradesh and Tamilnadu northwest, central and east India and near normal over rest parts of the country.

Maximum Temperatures Forecast and Heat Wave Warnings:

- ❖ Maximum temperatures are very likely to be below normal to near normal during the next 5 days.
- ❖ No Heat wave conditions over most parts of India during the next 5 days.

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Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at a few places over** Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad and Himachal Pradesh; **at isolated places over** Bihar, West Bengal & Sikkim, Madhya Pradesh, Rayalaseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday)(in cm): Atiramapattinam-6; Palayankottai-3; Pendra road and Kodaikanal-2 each; Malda, Thiruvananthapuram and Valprai-1 each.
- ❖ **Thunderstorm observed** (from 0830 hours IST to yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, Himachal Pradesh, Rajasthan, Gujarat, Madhya Pradesh, Vidarbha, West Bengal & Sikkim, Coastal Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Hailstorm observed** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Jammu & Kashmir, Himachal Pradesh and West Madhya Pradesh.
- ❖ **Minimum Temperature Departures (as on 26-04-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Saurashtra & Kutch. They were **markedly below normal (-5.1°C or less)** at many places over Telangana; at a few places over East Madhya Pradesh and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Haryana, Chandigarh & Delhi; at a few places over Uttar Pradesh, West Madhya Pradesh, Rayalaseema, Chhattisgarh, Odisha and Vidarbha and at isolated places over East Rajasthan; **below normal (-1.6°C to -3.0°C)** at many places over Coastal Karnataka; at a few places over Kerala & Mahe and West Bengal & Sikkim and at isolated places over West Rajasthan and Tamilnadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 14.4°C** was reported at **Pantnagar (Uttarakhand)** over plains of the country.
- ❖ **Maximum Temperature Departures (as on 26-04-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at most places over Nagaland, Manipur, Mizoram & Tripura; at a few places Konkan & Goa, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe and at isolated places over Gangetic West Bengal and Tamilnadu, Puducherry & Karaikal. They were **markedly below normal (-5.1°C or less)** at many places over Vidarbha and Telangana; at a few places over Chhattisgarh and Rayalaseema; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Jharkhand and Madhya Pradesh; at many places over Himachal Pradesh, Uttar Pradesh East Rajasthan and Marathawada; at a few places over Coastal Andhra Pradesh; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, Bihar and Odisha; **below normal (-1.6°C to -3.0°C)** at most places over Uttarakhand and Madhya Maharashtra; at many places over Punjab and West Rajasthan; at few places over Gujarat and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 40.8°C** was reported at **Surendranagar (Saurashtra & Kutch)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Western Disturbance as a **cyclonic circulation** over Pakistan & neighbourhood between 3.1 km to 7.6 km above mean sea level persists.
- ❖ The **cyclonic circulation** over west Vidarbha extending upto 1.5 km above mean sea level persists.
- ❖ The **trough/wind discontinuity** from west Vidarbha to South Interior Karnataka across North Interior Karnataka extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over southwest Rajasthan & neighbourhood between 1.5 km & 3.1 km above mean sea level persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 02nd May, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.

Maximum Temperatures Forecast and Heat Wave Warnings:

- ❖ **East India:** Rise by 2-3°C in maximum temperatures during next 2 days and no significant change thereafter.
- ❖ **Northwest & West India:** Fall in maximum temperatures by 2-4°C during next 5 days..
- ❖ **Central India:** Fall in maximum temperatures by 2-3°C during next 5 days.
- ❖ No significant change in maximum temperatures over rest parts of India during the next 5 days.
- ❖ **No Heat wave conditions over most parts of India during next 7 days.**

Weather Outlook for subsequent 2 days (During 02nd -04th May, 2023)

- ❖ Scattered to Fairly widespread light/moderate rainfall likely over most parts of the country except east, west India, and Islands, where isolated light rainfall is likely.

Weather Warning during next 5 days

27 April (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Telangana and Odisha; **with thunderstorm, lightning & gusty wind (30-40 kmph)** at isolated places over Madhya Maharashtra, Marathwada, Chhattisgarh, Vidarbha; **with thunderstorm & lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Madhya Pradesh, Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Bihar, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Kerala & Mahe, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, **with lightning** at isolated places over West Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Gujarat state and Tamil Nadu, Puducherry & Karaikal.

♦ **Duststorm** very likely at isolated places over Rajasthan.

28 April (Day 2): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (30-40 kmph)** very likely at isolated places over Marathwada; **with thunderstorm & lightning** at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Rajasthan, Madhya Pradesh and Chhattisgarh; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, Vidarbha, West Bengal & Sikkim, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Uttar Pradesh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Duststorm** very likely at isolated places over Rajasthan.

29 April (Day 3): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Rayalaseema and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** likely at isolated places over Rajasthan, Chhattisgarh; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Odisha, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Duststorm** likely at isolated places over Rajasthan.

30 April (Day 4): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Telangana, Rayalaseema, Kerala & Mahe and Tamilnadu.

♦ **Hailstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** likely at isolated places over Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, Uttar Pradesh, Rajasthan, Odisha, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

01 May (Day 5): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Telangana, Rayalaseema, Kerala & Mahe and Tamilnadu.

♦ **Hailstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** likely at isolated places over Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, Uttar Pradesh, Rajasthan, Odisha, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

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Table-1

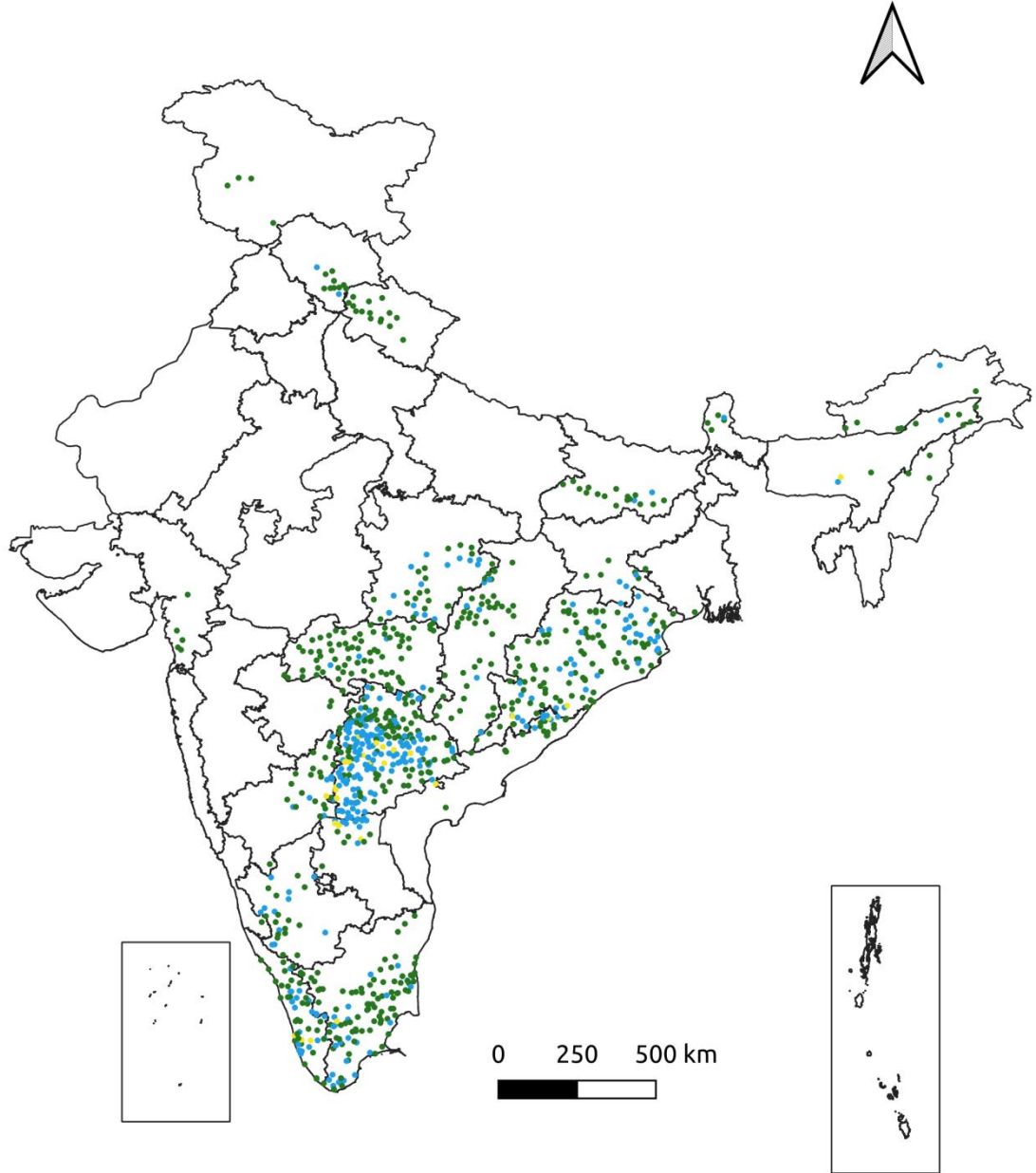
5 Day Rainfall Forecast						
S. No.	Subdivision	27-Apr	28-Apr	29-Apr	30-Apr	01-May
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	SCT	ISOL	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	FWS	WS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	SCT	FWS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	SCT	FWS	FWS	FWS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

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: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 25-4-2023 to 0830 IST of 26-4-2023



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)

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Fig. 2: Maximum Temperatures Dated 26.04.2023

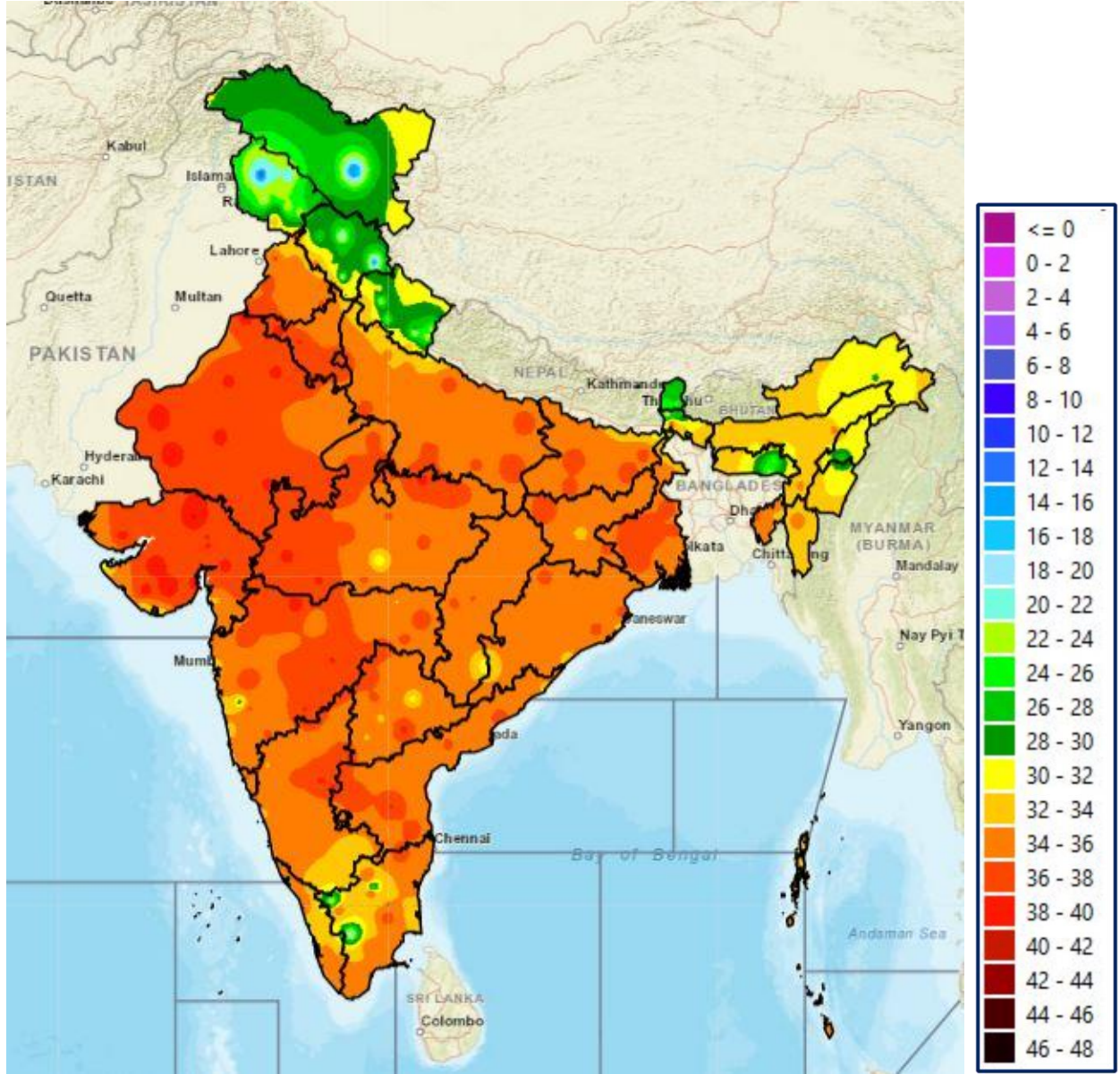


Fig. 3: Minimum Temperatures Dated 26.04.2023

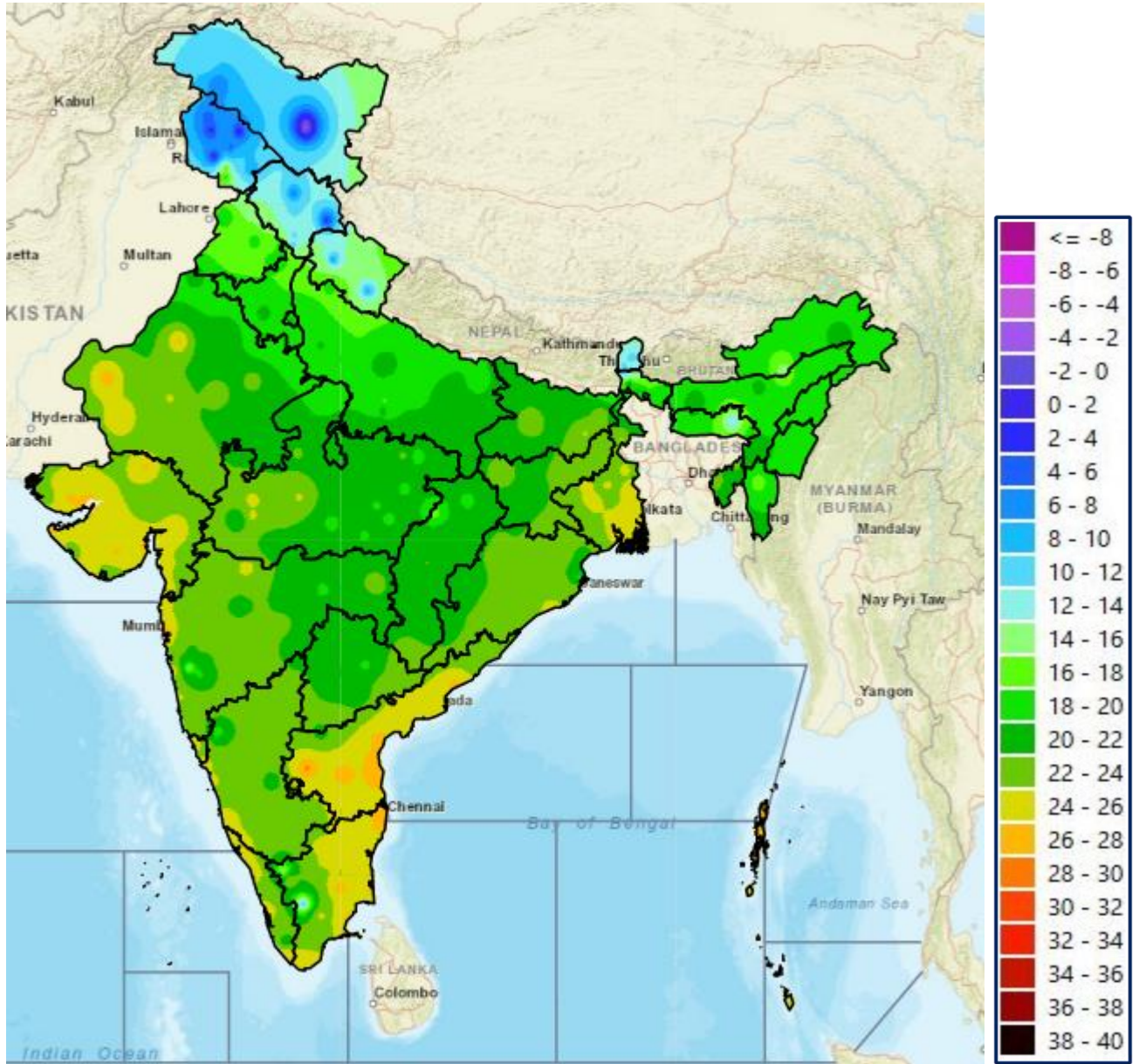


Fig. 4: Departure from Normal of Maximum Temperatures Dated 26.04.2023

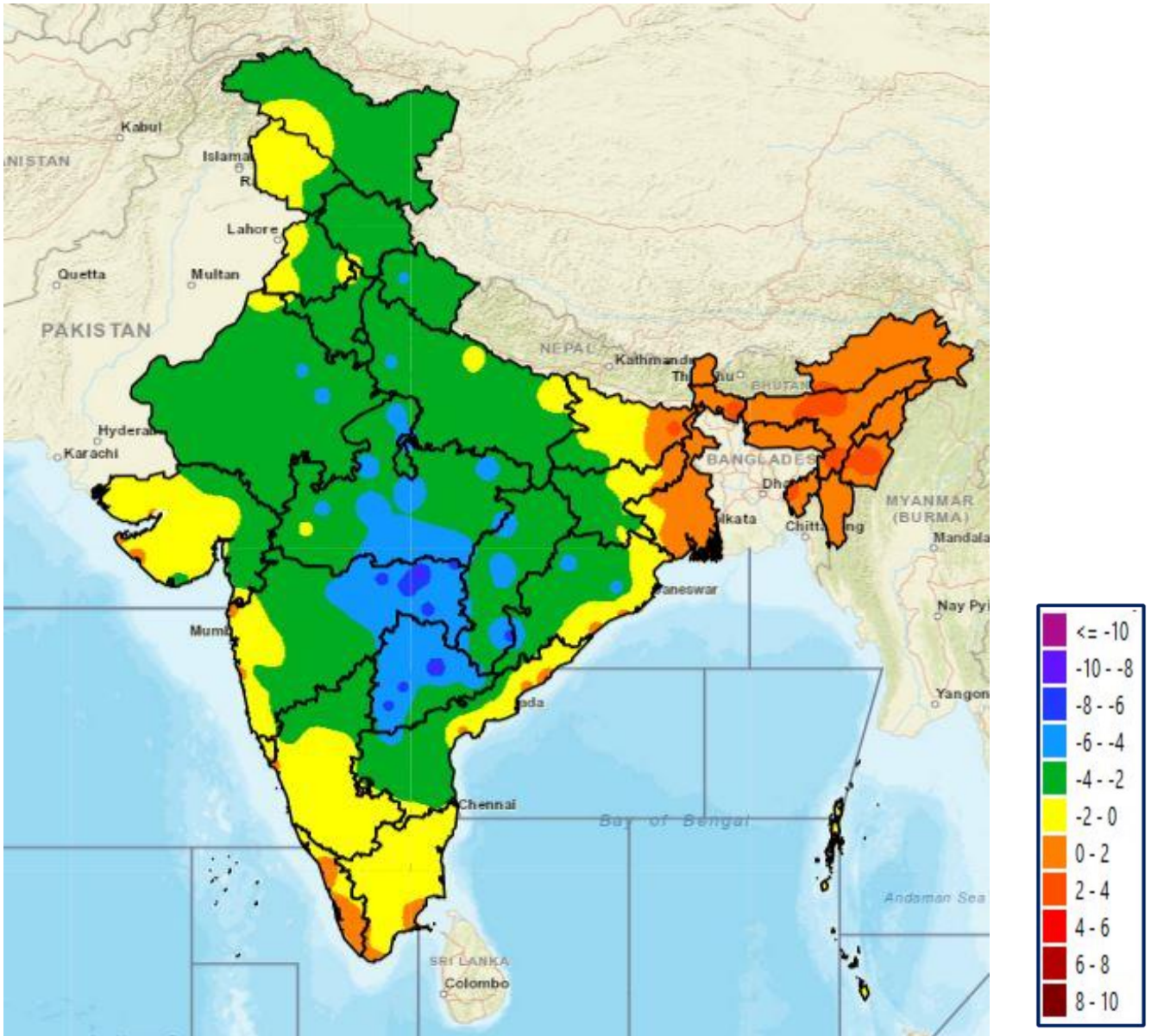
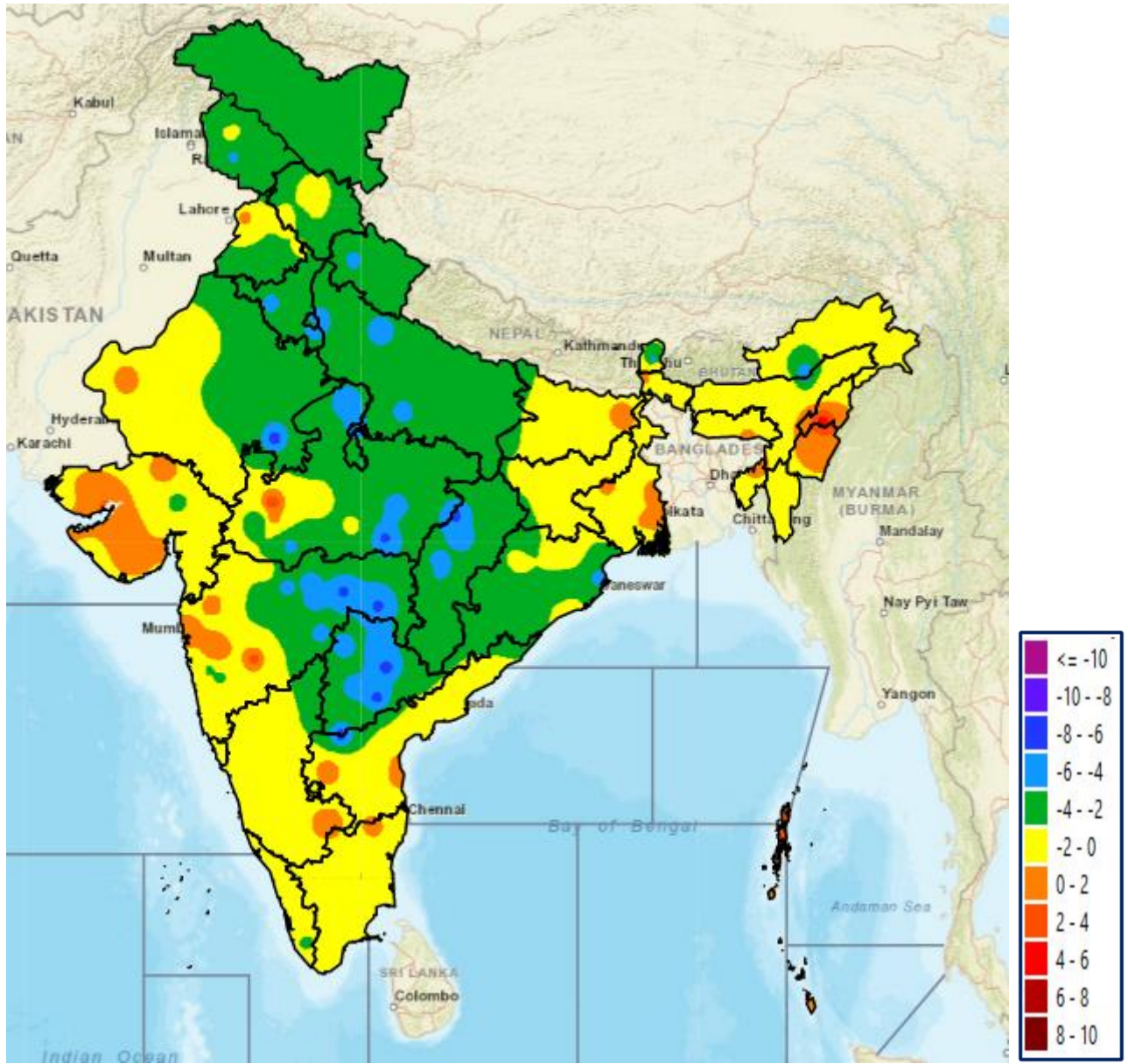


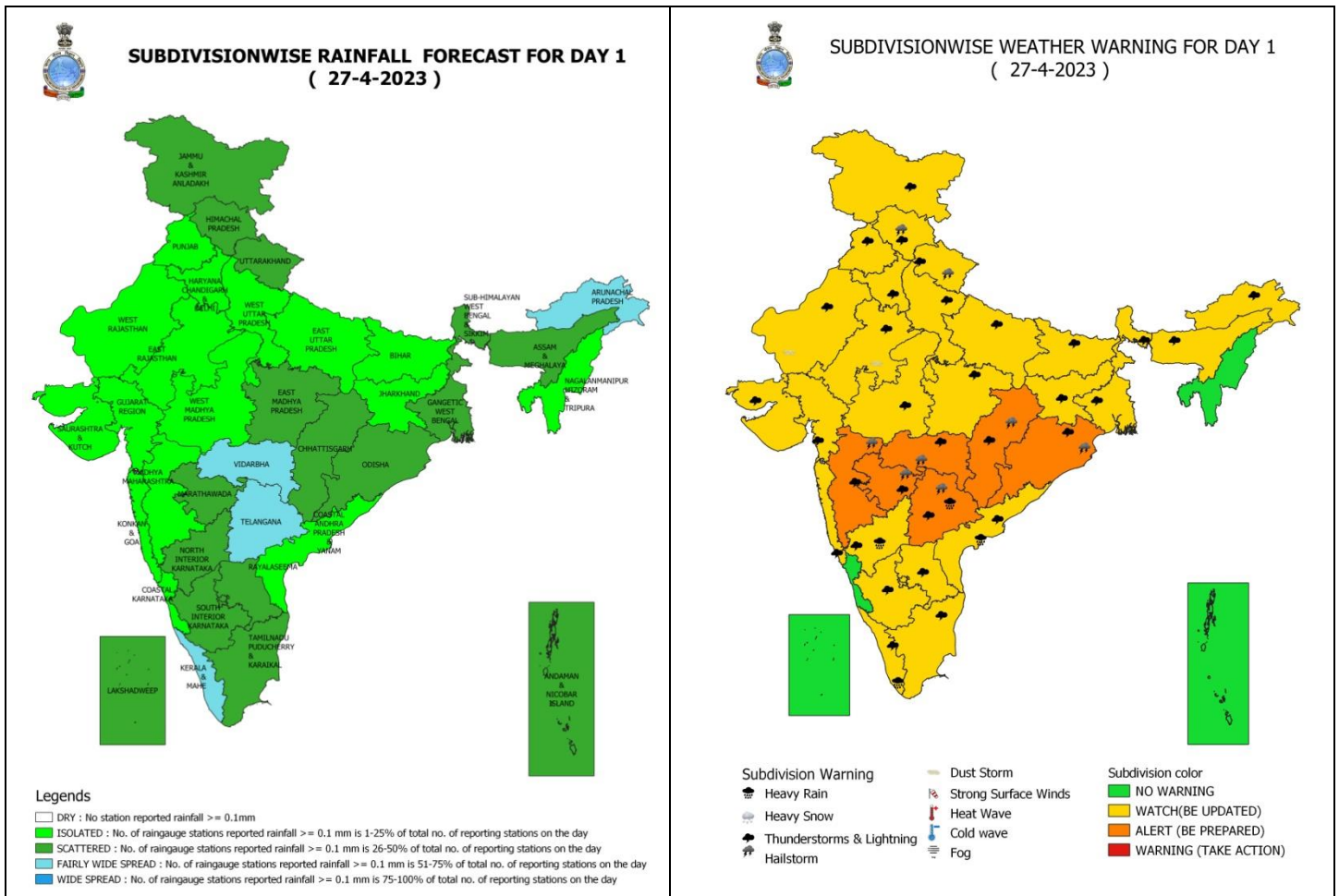
Fig. 5: Departure from Normal of Minimum Temperatures Dated 26.04.2023



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27 April (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Telangana and Odisha; **with thunderstorm, lightning & gusty wind (30-40 kmph)** at isolated places over Madhya Maharashtra, Marathwada, Chhattisgarh, Vidarbha; **with thunderstorm & lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh.

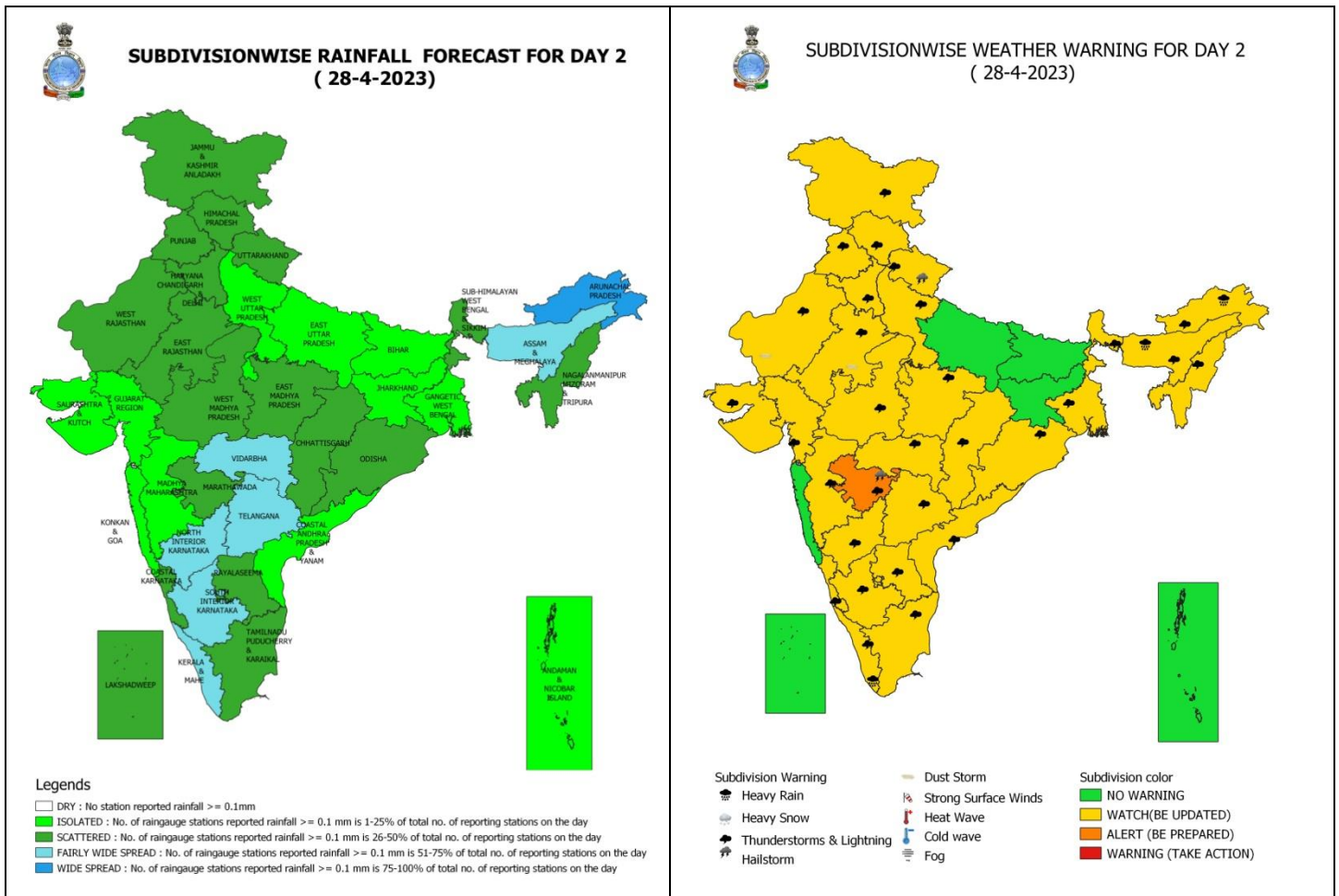
♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Madhya Pradesh, Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Bihar, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Kerala & Mahe, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, **with lightning** at isolated places over West Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Gujarat state and Tamil Nadu, Puducherry & Karaikal.

♦ **Duststorm** very likely at isolated places over Rajasthan.

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28 April (Day 2): ♦ Heavy rainfall very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (30-40 kmph)** very likely at isolated places over Marathwada; **with thunderstorm & lightning** at isolated places over Uttarakhand.

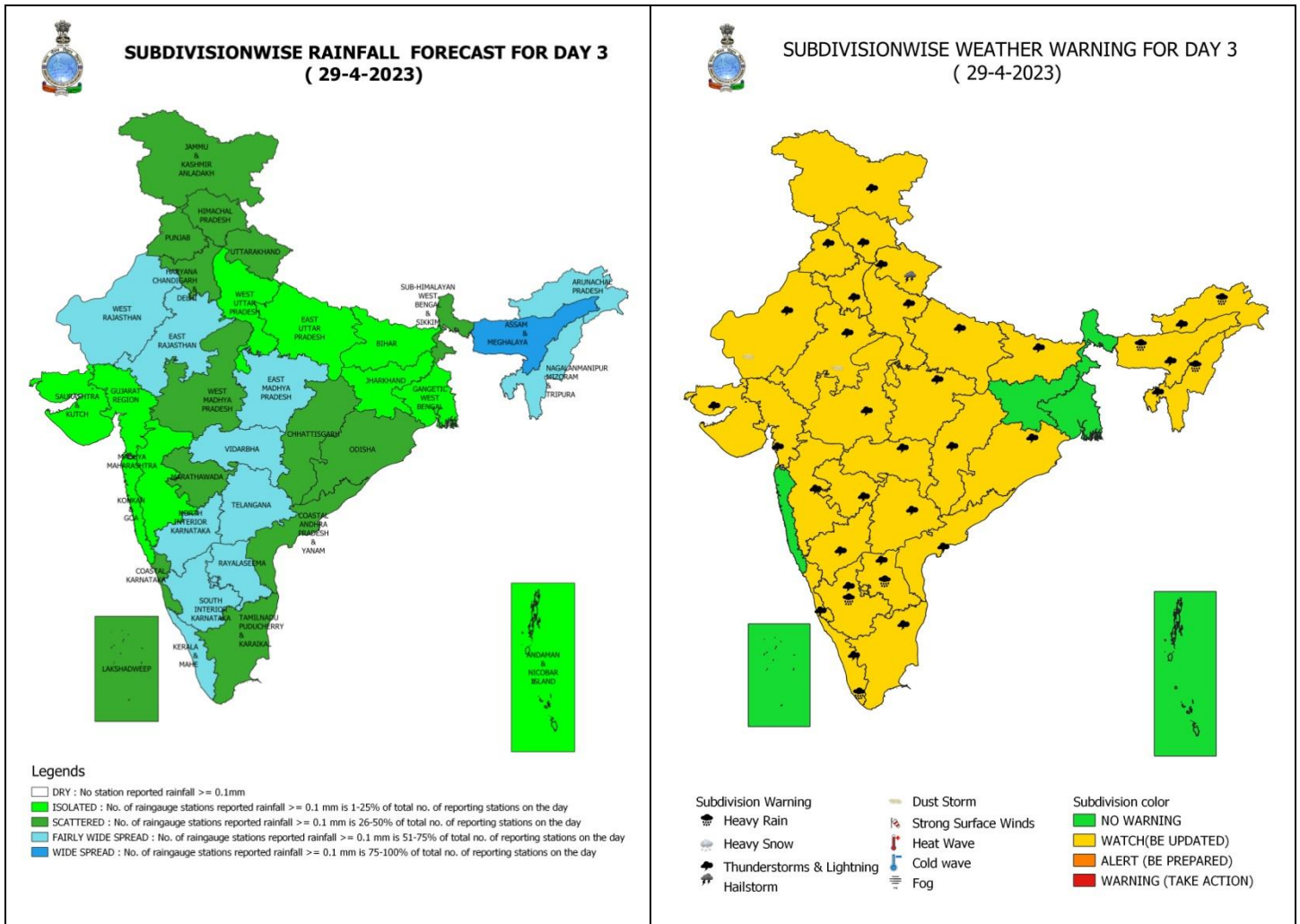
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♦ **Duststorm** very likely at isolated places over Rajasthan.

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29 April (Day 3): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Rayalaseema and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Uttarakhand.

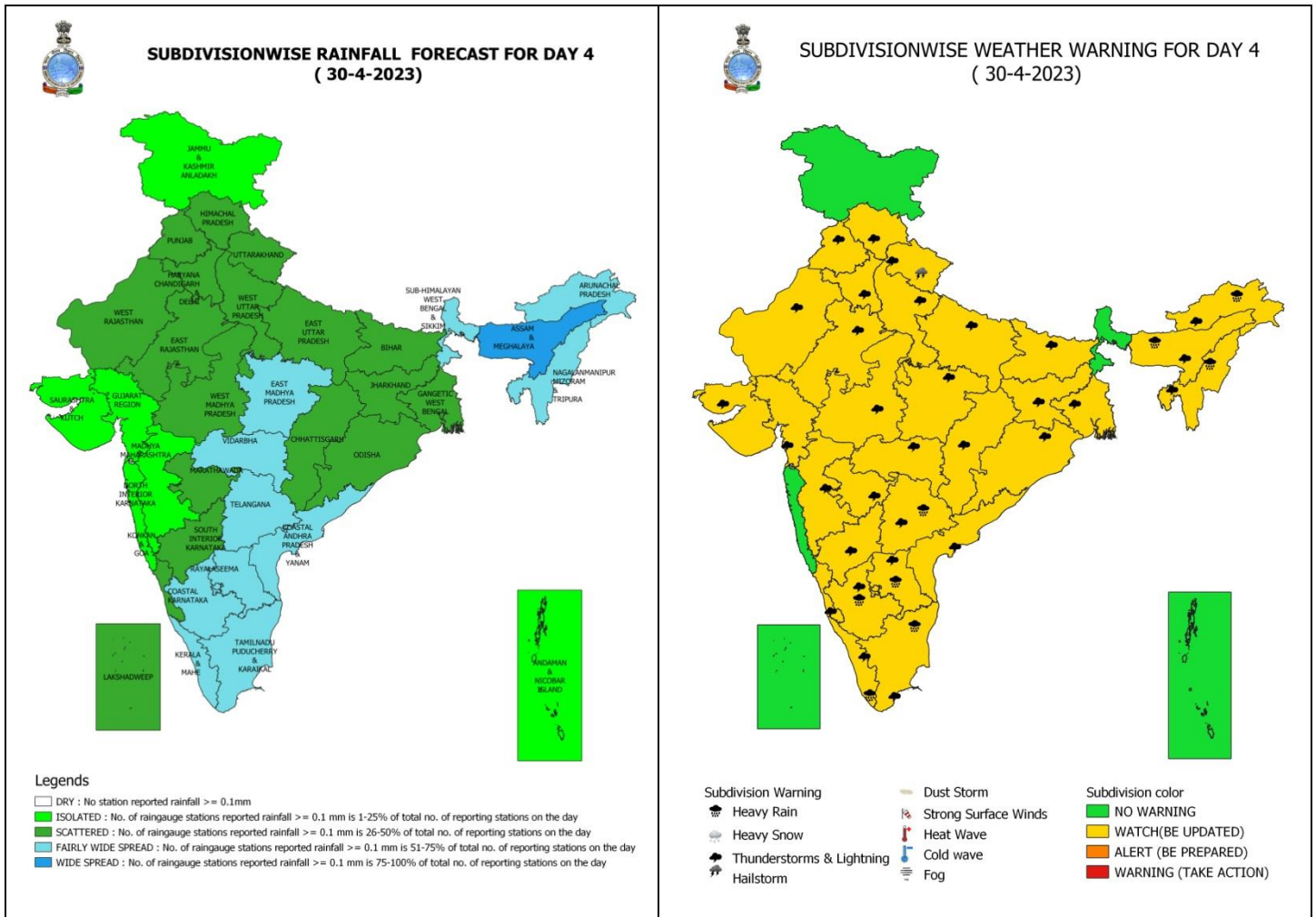
♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** likely at isolated places over Rajasthan, Chhattisgarh; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Odisha, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Duststorm** likely at isolated places over Rajasthan.

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30 April (Day 4): ♦ Heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Telangana, Rayalaseema, Kerala & Mahe and Tamilnadu.

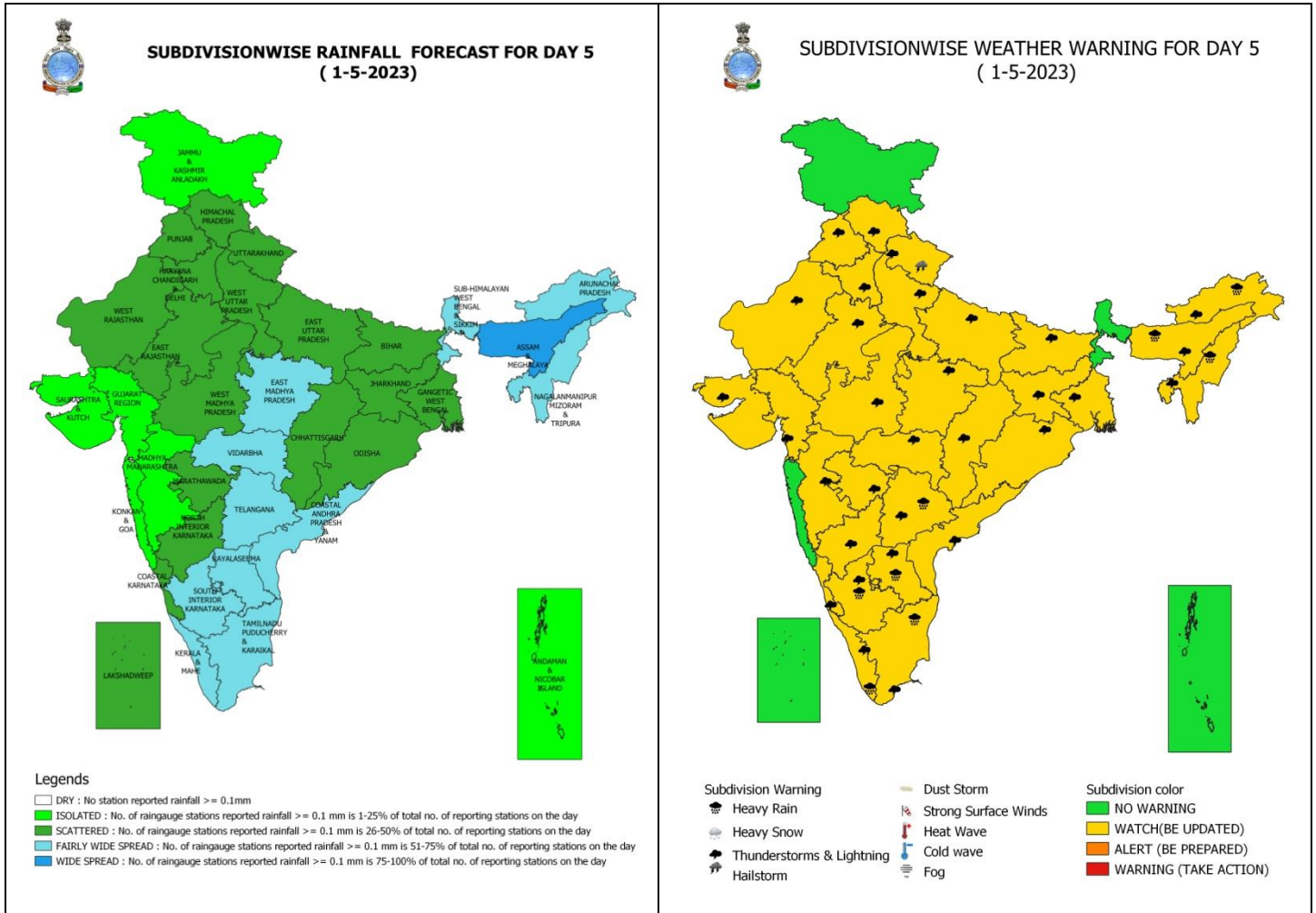
♦ **Hailstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** likely at isolated places over Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, Uttar Pradesh, Rajasthan, Odisha, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

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01 May (Day 5): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Telangana, Rayalaseema, Kerala & Mahe and Tamilnadu.

♦ **Hailstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** likely at isolated places over Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, Uttar Pradesh, Rajasthan, Odisha, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

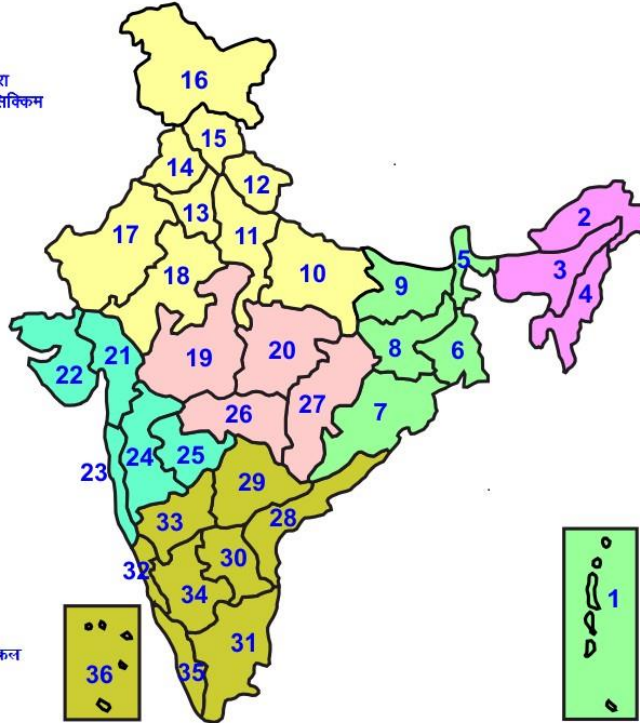
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LEGENDS

- 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 गॉंगेय बंगाल
- 7 ओडिशा
- 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 यनम
- 29 तेलंगाना
- 30 रायलसेमा
- 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)

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 Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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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



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)

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