



Saturday, April 29, 2023
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Significant Meteorological features:

- ❖ Two Western Disturbances seen as a cyclonic circulation in lower & middle levels, 1st over north Pakistan & neighbourhood and 2nd over south Pakistan & neighbourhood.
- ❖ A trough runs from Maldives to Madhya Maharashtra in lower levels.

Forecast and warning for next 5 days

Central India:

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over Madhya Pradesh, Vidarbha, Chhattisgarh during next 5 days.
- ❖ **Hailstorm** very likely at isolated places over Vidarbha during 29th-30th; over West Madhya Pradesh on 30th April.
- ❖ **Heavy rainfall** very likely at isolated places over Vidarbha on 30th April.

South India:

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over Coastal Andhra Pradesh, Telangana, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe during next 5 days; over Lakshadweep during 29th-30th; North Interior Karnataka on 29th April.
- ❖ **Hailstorm** very likely at isolated places over Telangana during 29th-30th April.
- ❖ **Heavy rainfall** likely at isolated places over Kerala and Tamil Nadu, Puducherry & Karaikal during next 5 days; North Interior Karnataka on 29th April; South Interior Karnataka during 29th April-01st May; over Telangana during 29th-30th April.

East India:

- ❖ Light/moderate scattered to fairly widespread **rainfall** with thunderstorm/lightning/gusty winds very likely over the region during next 5 days.
- ❖ **Hailstorm** very likely at isolated places over Odisha on 30th April; Jharkhand and Gangetic West Bengal on 30th April & 01st May.
- ❖ **Heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim during 29th April-1st May; Odisha on 30th April.

Northeast India:

- ❖ Light/moderate fairly widespread to 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 and Assam & Meghalaya during 29th April-03rd May and over Nagaland, Manipur, Mizoram & Tripura during 01st-03rd May.

Northwest India:

- ❖ Light/moderate isolated/scattered rainfall/snowfall with thunderstorm/lightning very likely over Western Himalayan Region and isolated to scattered rainfall with thunderstorm/lightning over plains of Northwest India during next 2 days and fairly widespread/widespread rainfall over the region during 01st-04th May, 2023.
- ❖ **Hailstorm** activity very likely at isolated places over Rajasthan on 29th; Uttarakhand during 29th April-03rd May; over Himachal Pradesh, Punjab, Haryana & Chandigarh, Uttar Pradesh during 01st-03rd May.
- ❖ **Heavy rainfall** likely at isolated places over Jammu division, Himachal Pradesh and Himachal Pradesh during 01st-03rd May.
- ❖ **Duststorm** very likely at isolated places over Rajasthan on 29th April, 2023.

West India:

- ❖ Light isolated to scattered rainfall with thunderstorm/lightning very likely over Madhya Maharashtra & Marathwada and light isolated rainfall over Gujarat region during next 5 days.

Maximum Temperatures Forecast and Heat Wave Warnings:

- ❖ Maximum temperatures are very likely to be below normal to near normal during next 5 days.
- ❖ **No Heat wave conditions likely over any part of India during 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, West Madhya Pradesh; **at isolated places over** Odisha, Telangana, Tamil Nadu, Puducherry & Karaikal, Madhya Maharashtra, East Madhya Pradesh, West Bengal & Sikkim, Assam & Meghalaya, Rajasthan, Vidarbha, Marathwada, Kerala & Mahe and Saurashtra & Kutch.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday)(in cm): **Odisha:** Puri-3; **Madhya Maharashtra:** Sholapur-3; **Marathwada:** Aurangabad Chikkalthana Airport-2; **Kerala & Mahe:** Tiruvananthapuram-2; **Tamil Nadu:** Tiruchchirapalli-1; Vidarbha: Buldana-1.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Himachal Pradesh, West Rajasthan, Madhya Pradesh, Rajasthan, Saurashtra & Kutch, Himachal Pradesh, Madhya Maharashtra, Kerala & Mahe and West Bengal & Sikkim.
- ❖ **Hailstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Madhya Maharashtra and Madhya Pradesh.
- ❖ **Minimum Temperature Departures (as on 28-04-2023):** Minimum temperatures were **markedly above normal (1.6°C to 3.0°C)** at many places over Andaman & Nicobar Islands; at a few places over Nagaland, Manipur, Mizoram & Tripura. They were **markedly below normal (-5.1°C or less)** at most places over Vidarbha; at a few places over West Madhya Pradesh, North Interior Karnataka; at isolated places over East Madhya Pradesh, Chhattisgarh; **appreciably below normal (-3.1°C to -5.1°C)**, at most places over, Marathwada, at many places over, Gangetic West Bengal, Telangana; at a few places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Odisha; at isolated places over West Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Jharkhand, Sub-Himalayan West Bengal & Sikkim; at isolated places over Bihar, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 16.7°C** was reported at **Malanjhand (East Madhya Pradesh)** over plains of the country.
- ❖ **Maximum Temperature Departures (as on 28-04-2023):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka; at isolated places over Bihar, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal. They were **markedly below normal (-5.1°C or less)** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Vidarbha; at many places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Marathwada; at a few places over Rajasthan, Telangana; at isolated places over Saurashtra & Kutch, Madhya Maharashtra; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Chhattisgarh, Jharkhand; at isolated places over Odisha, Gujarat Region, East Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over Rayalaseema, Himachal Pradesh, Punjab, Uttarakhand; at isolated places over Gangetic West Bengal and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 41.0°C** was reported at **Anantapur (Rayalaseema)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Western Disturbance as a **cyclonic circulation** over south Pakistan & neighbourhood between 3.1 km & 5.8 km above mean sea level persists.
- ❖ The other Western Disturbance as a **cyclonic circulation** over north Pakistan & neighbourhood extending upto 7.6 km above mean sea level persists.
- ❖ The **trough** from Maldives area to Madhya Maharashtra across Southeast Arabian Sea & Coastal Karnataka at 0.9 km above mean sea level persists.
- ❖ A fresh Western Disturbance is likely to affect Northwest India from the night of 01st May, 2023.

Weather Forecast for next 5 days (Upto 0830 hours IST of 04th May, 2023)

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

Maximum Temperatures Forecast and Heat Wave Warnings:

- ❖ **Northwest India:** Gradual fall in maximum temperatures by 2-4°C during next 2 days and no significant change thereafter.
- ❖ **West India:** Fall in maximum temperatures by 2-3°C during next 2 days and rise by 2-3°C thereafter.
- ❖ 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 5 days.**

Weather Outlook for subsequent 2 days (During 04th – 06th 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

29 April (Day 1): ♦ Heavy rainfall very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Interior Karnataka, Telangana, Tamil Nadu and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over and Vidarbha, Telangana, Uttarakhand, Rajasthan.

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

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

30 April (Day 2): ♦ Heavy rainfall very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Odisha, South Interior Karnataka, Telangana, Kerala & Mahe and Tamilnadu.

♦ **Hailstorm with lightning & squall (50-60 kmph)** very likely at isolated places over Uttarakhand; **with lightning & gusty wind (40-50 kmph)** at isolated places over Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Telangana; **with lightning & gusty wind (30-40 kmph)** at isolated places over West Madhya Pradesh.

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

01 May (Day 3): ♦ Heavy rainfall likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamilnadu.

♦ **Hailstorm with lightning & squall (50-60 kmph)** likely at isolated places over Uttarakhand; **with lightning & gusty wind (40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Jharkhand, Gangetic West Bengal; **with lightning** at isolated places over Himachal Pradesh.

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

02 May (Day 4): ♦ Heavy rainfall likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamilnadu.

♦ **Hailstorm with lightning & squall (50-60 kmph)** likely at isolated places over Uttarakhand; **with lightning & gusty wind (40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; **with lightning** at isolated places over Himachal Pradesh.

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

03 May (Day 5): ♦ Heavy rainfall likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamilnadu.

♦ **Hailstorm with lightning & squall (50-60 kmph)** likely at isolated places over Uttarakhand; **with lightning & gusty wind (40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; **with lightning** at isolated places over Himachal Pradesh.

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

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Table-1

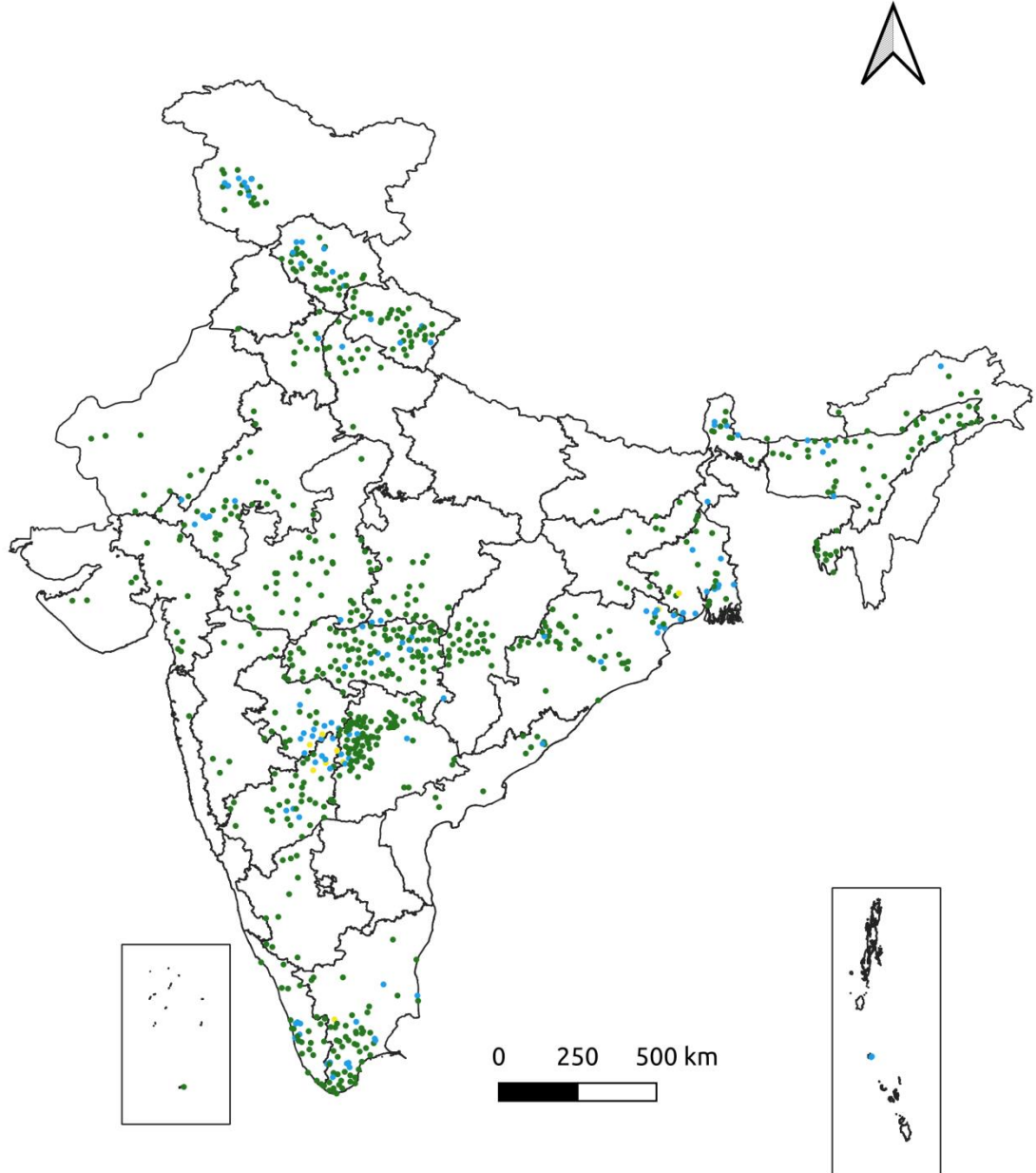
5 Day Rainfall Forecast						
S. No.	Subdivision	29-Apr	30-Apr	01-May	02-May	03-May
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	SCT	FWS	FWS
2	ARUNACHAL PRADESH	WS	WS	WS	WS	WS
3	ASSAM & MEGHALAYA	FWS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	FWS	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	SCT	WS	WS	FWS	FWS
7	ODISHA	SCT	FWS	SCT	SCT	SCT
8	JHARKHAND	ISOL	SCT	FWS	ISOL	ISOL
9	BIHAR	ISOL	SCT	SCT	SCT	SCT
10	EAST UTTAR PRADESH	SCT	SCT	FWS	FWS	FWS
11	WEST UTTAR PRADESH	SCT	SCT	FWS	FWS	FWS
12	UTTARAKHAND	SCT	SCT	FWS	FWS	FWS
13	HARYANA CHANDIGARH & DELHI	SCT	SCT	FWS	WS	WS
14	PUNJAB	SCT	SCT	FWS	WS	WS
15	HIMACHAL PRADESH	SCT	SCT	FWS	WS	WS
16	JAMMU & KASHMIR AND LADAKH	ISOL	ISOL	SCT	WS	WS
17	WEST RAJASTHAN	FWS	SCT	SCT	SCT	SCT
18	EAST RAJASTHAN	FWS	SCT	SCT	SCT	SCT
19	WEST MADHYA PRADESH	SCT	SCT	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	SCT	FWS	FWS	FWS	FWS
21	GUJARAT REGION	SCT	ISOL	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	ISOL	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	ISOL	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	SCT	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	WS	FWS	FWS	FWS	FWS
27	CHHATTISGARH	FWS	FWS	FWS	SCT	SCT
28	COASTAL ANDHRA PRADESH & YANAM	SCT	FWS	FWS	SCT	SCT
29	TELANGANA	FWS	FWS	FWS	SCT	SCT
30	RAYALASEEMA	SCT	WS	WS	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	FWS	WS	WS	WS
32	COASTAL KARNATAKA	SCT	SCT	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	FWS	FWS	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	WS	WS	FWS	FWS	FWS
35	KERALA & MAHE	FWS	WS	WS	FWS	FWS
36	LAKSHADWEEP	FWS	FWS	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 27-4-2023 to 0830 IST of 28-4-2023



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 28.04.2023

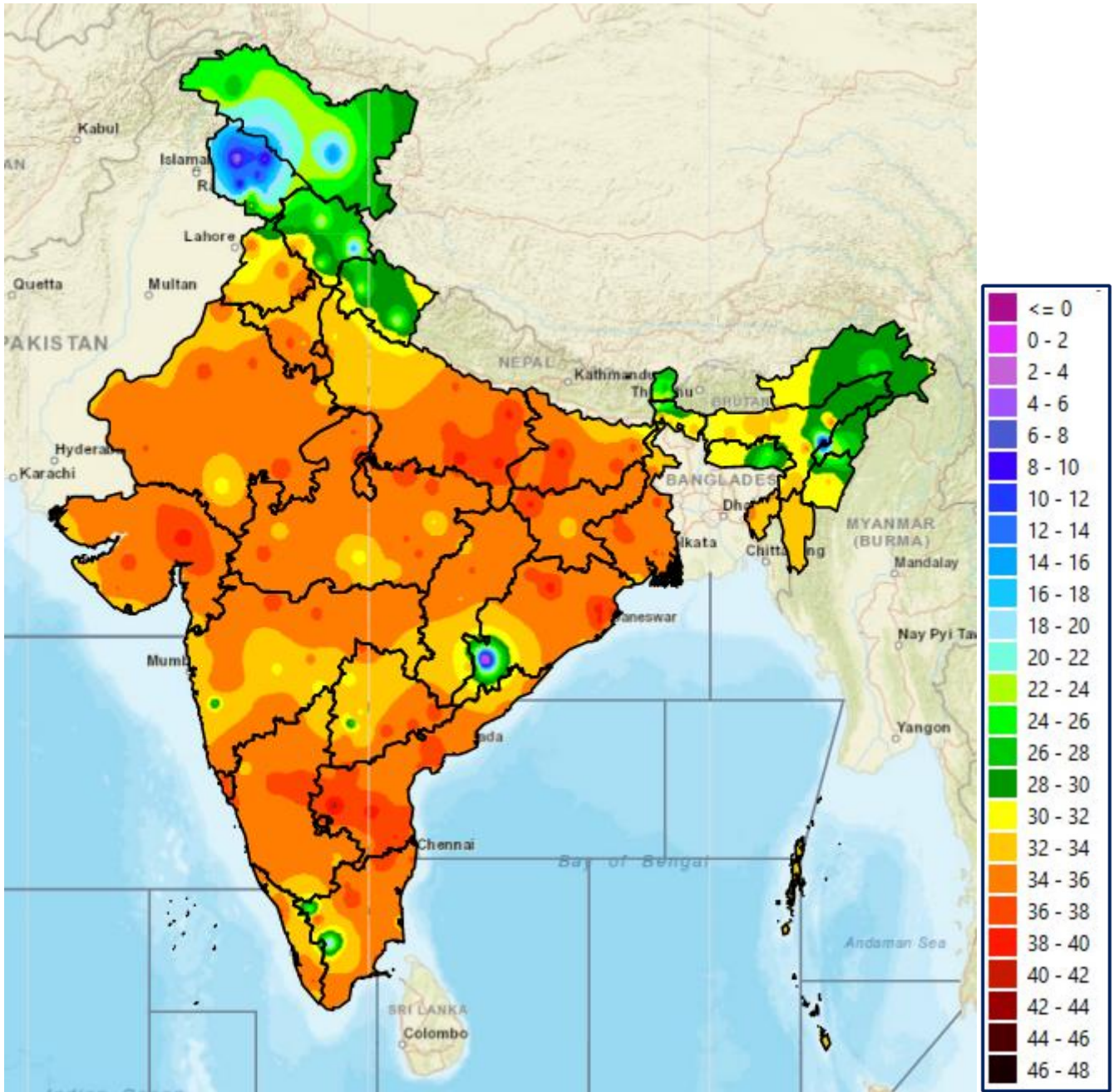


Fig. 3: Minimum Temperatures Dated 28.04.2023

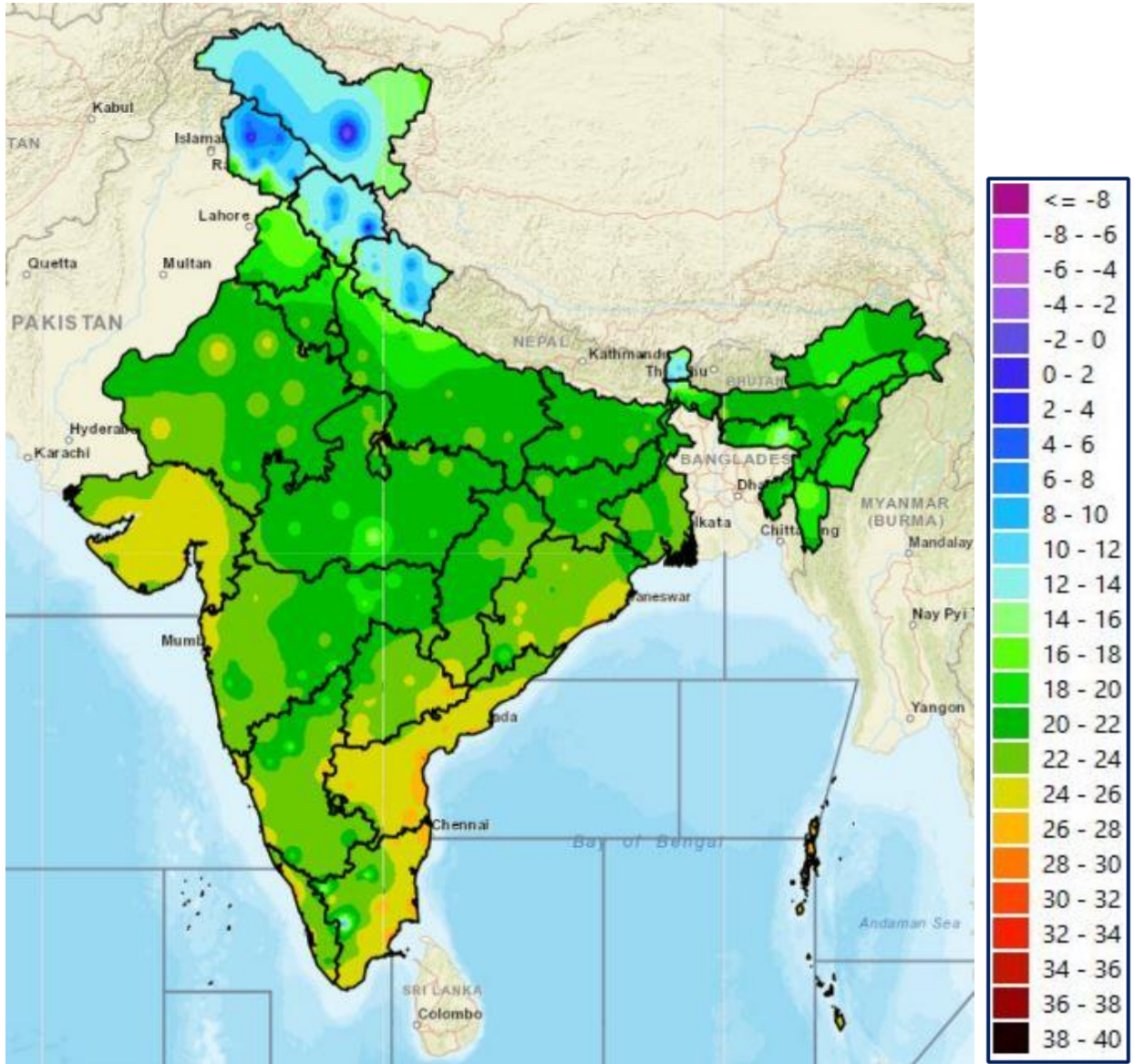
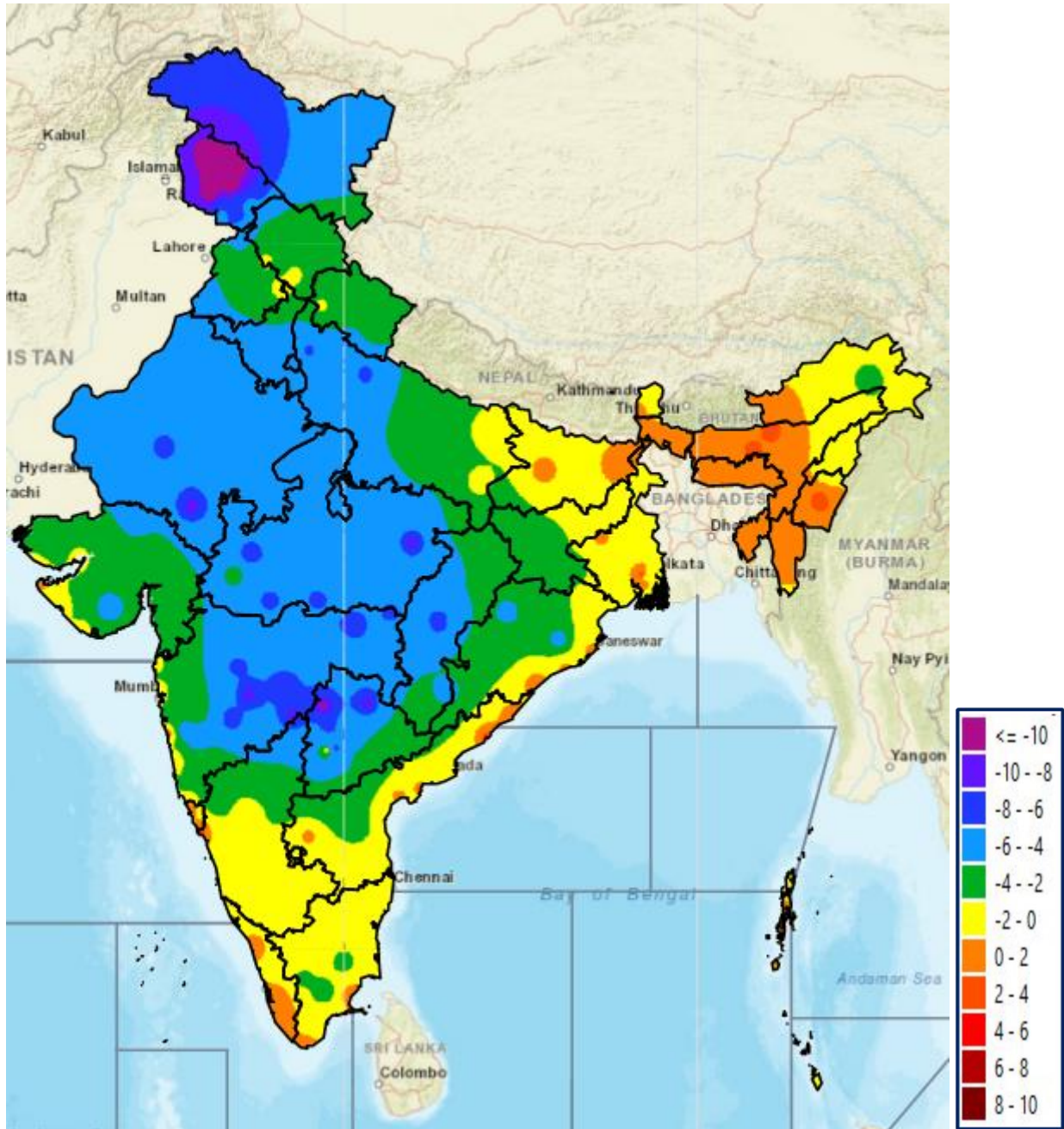


Fig. 4: Departure from Normal of Maximum Temperatures Dated 28.04.2023

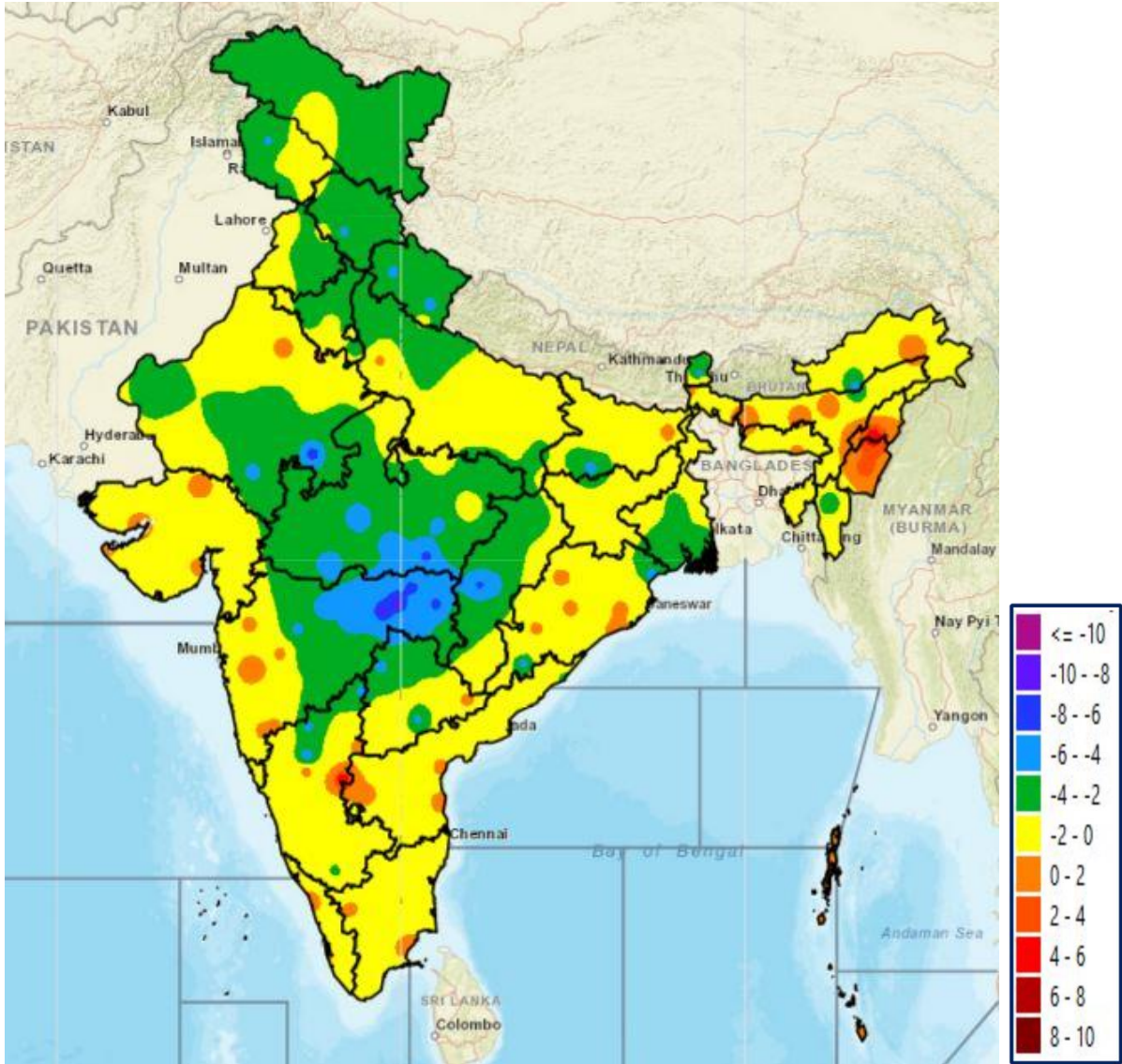


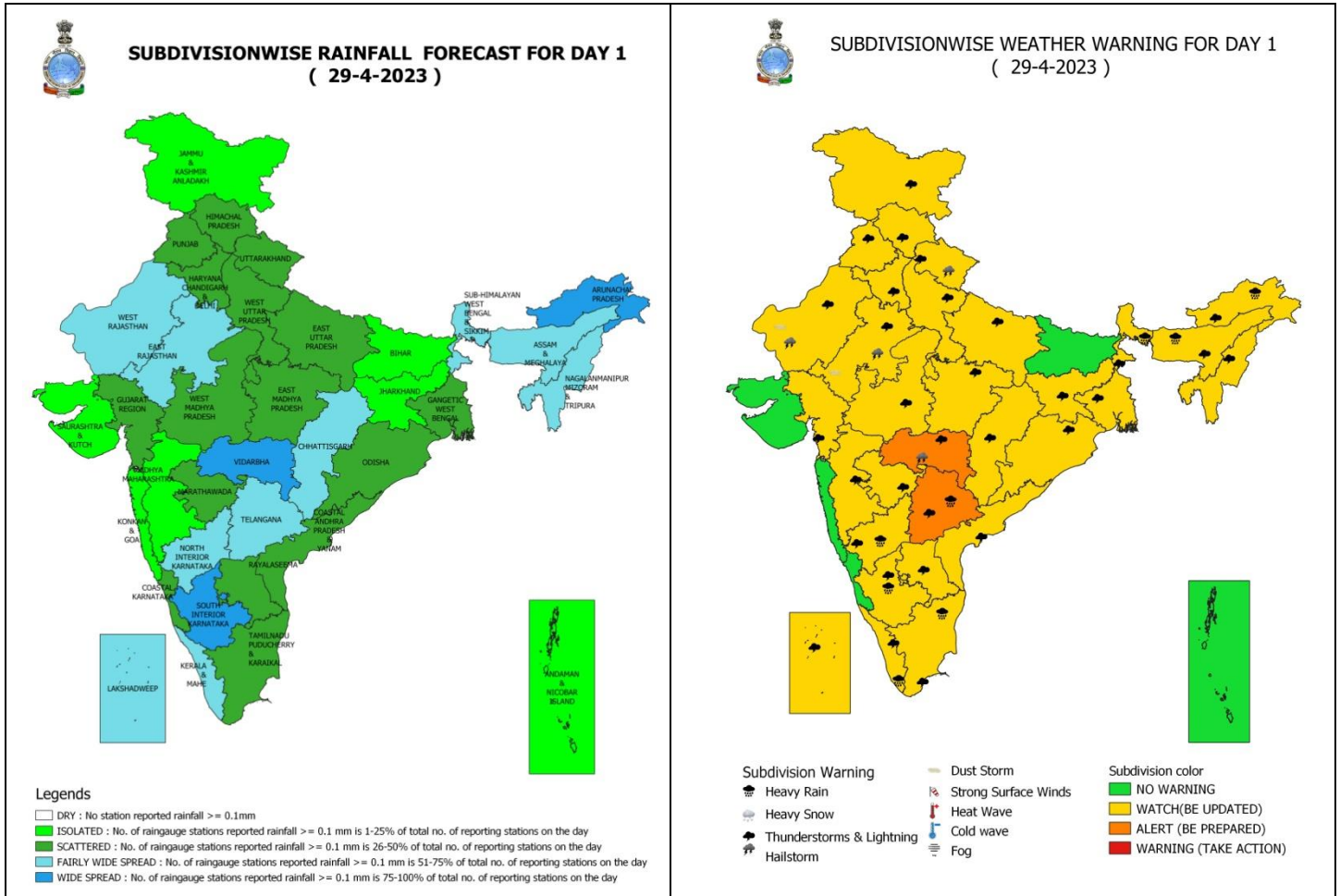
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Fig. 5: Departure from Normal of Minimum Temperatures Dated 28.04.2023





29 April (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Interior Karnataka, Telangana, Tamil Nadu and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over and Vidarbha, Telangana, Uttarakhand, Rajasthan.

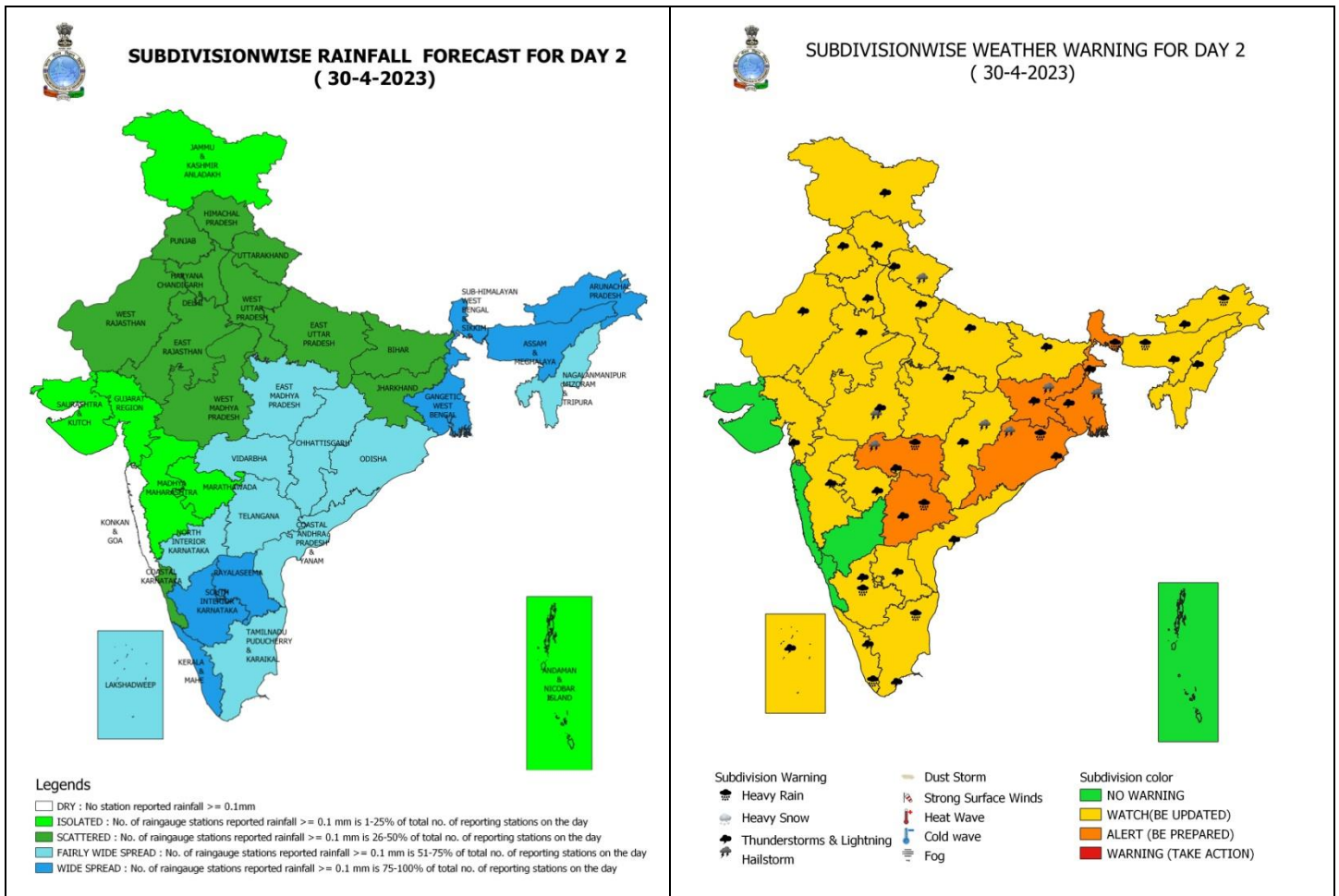
♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning & gusty wind (30-40 kmph)** over Uttar Pradesh, Madhya Pradesh, West Bengal & Sikkim, Odisha,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

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

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30 April (Day 2): ♦ Heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Odisha, South Interior Karnataka, Telangana, Kerala & Mahe and Tamilnadu.

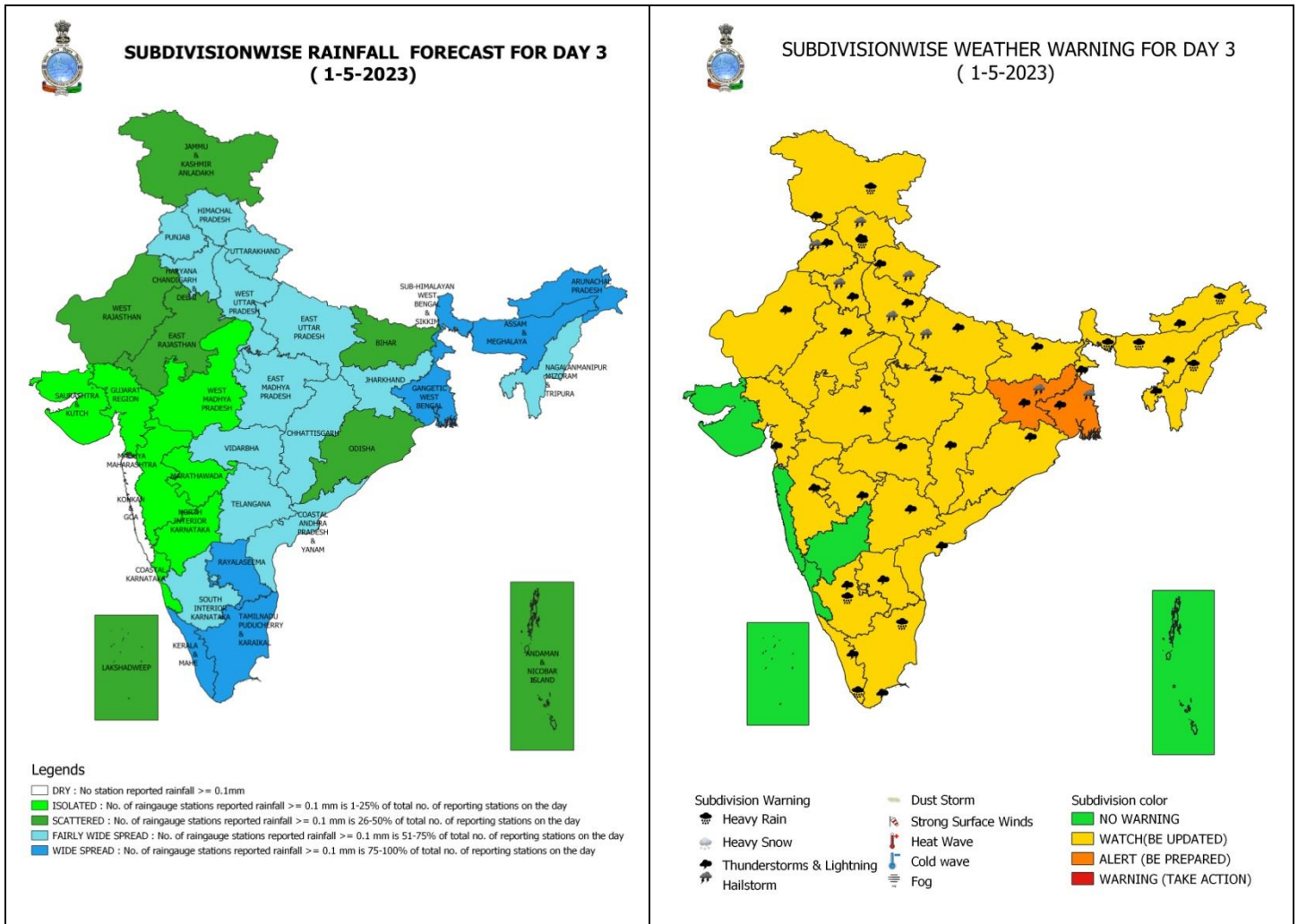
♦ **Hailstorm with lightning & squall (50-60 kmph)** likely at isolated places over Uttarakhand; **with lightning & gusty wind (40-50 kmph)** at isolated places over Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Telangana; **with lightning & gusty wind (30-40 kmph)** at isolated places over West Madhya Pradesh.

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

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01 May (Day 3): ♦ **Heavy rainfall** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamilnadu.

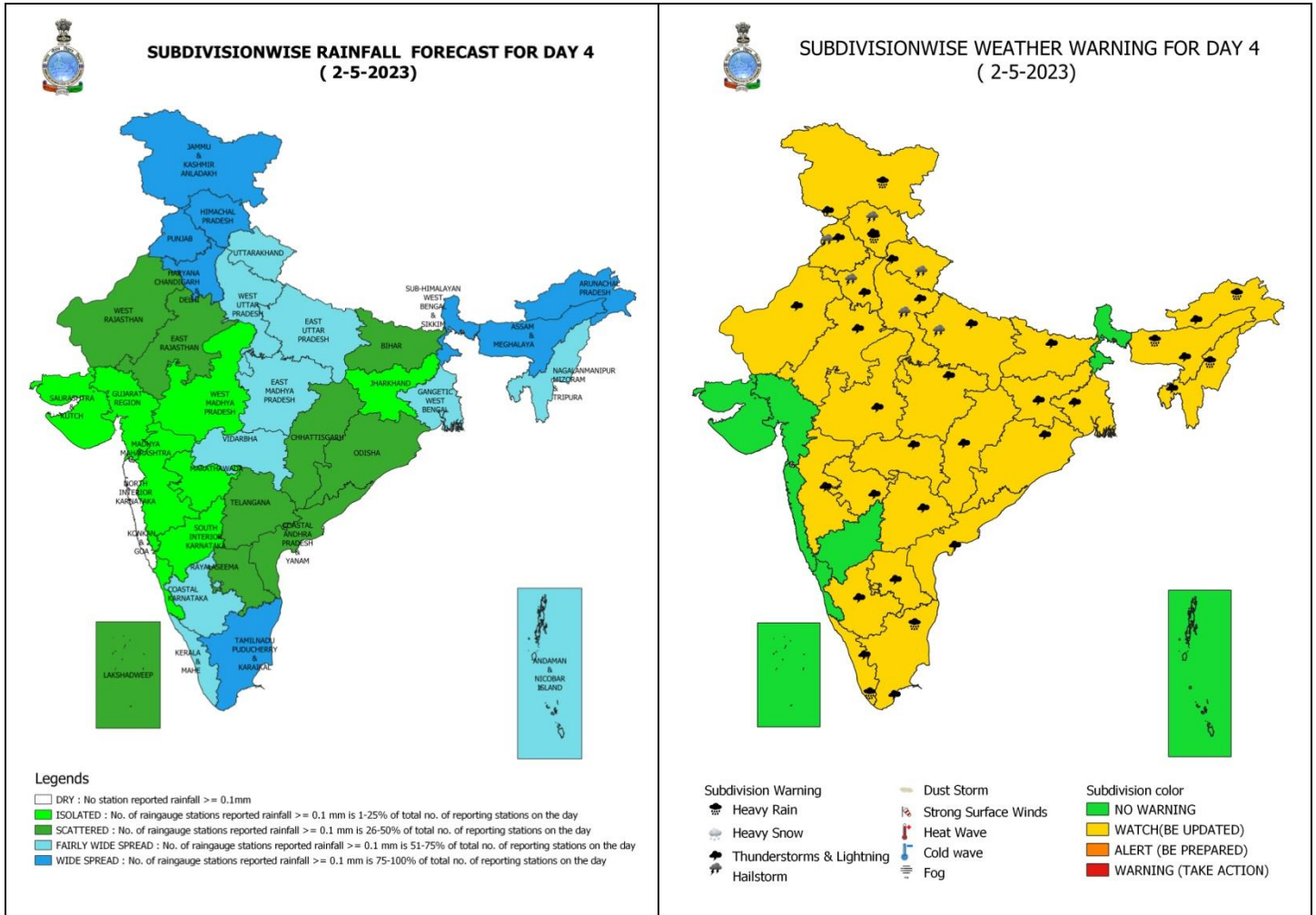
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♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** likely at isolated places over East Rajasthan, Coastal Andhra Pradesh & Yanam, Rayalaseema, Sub-Himalayan West Bengal & Sikkim; **with lightning & gusty wind (30-40 kmph)** over Vidarbha,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

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02 May (Day 4): ♦ **Heavy rainfall** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamilnadu.

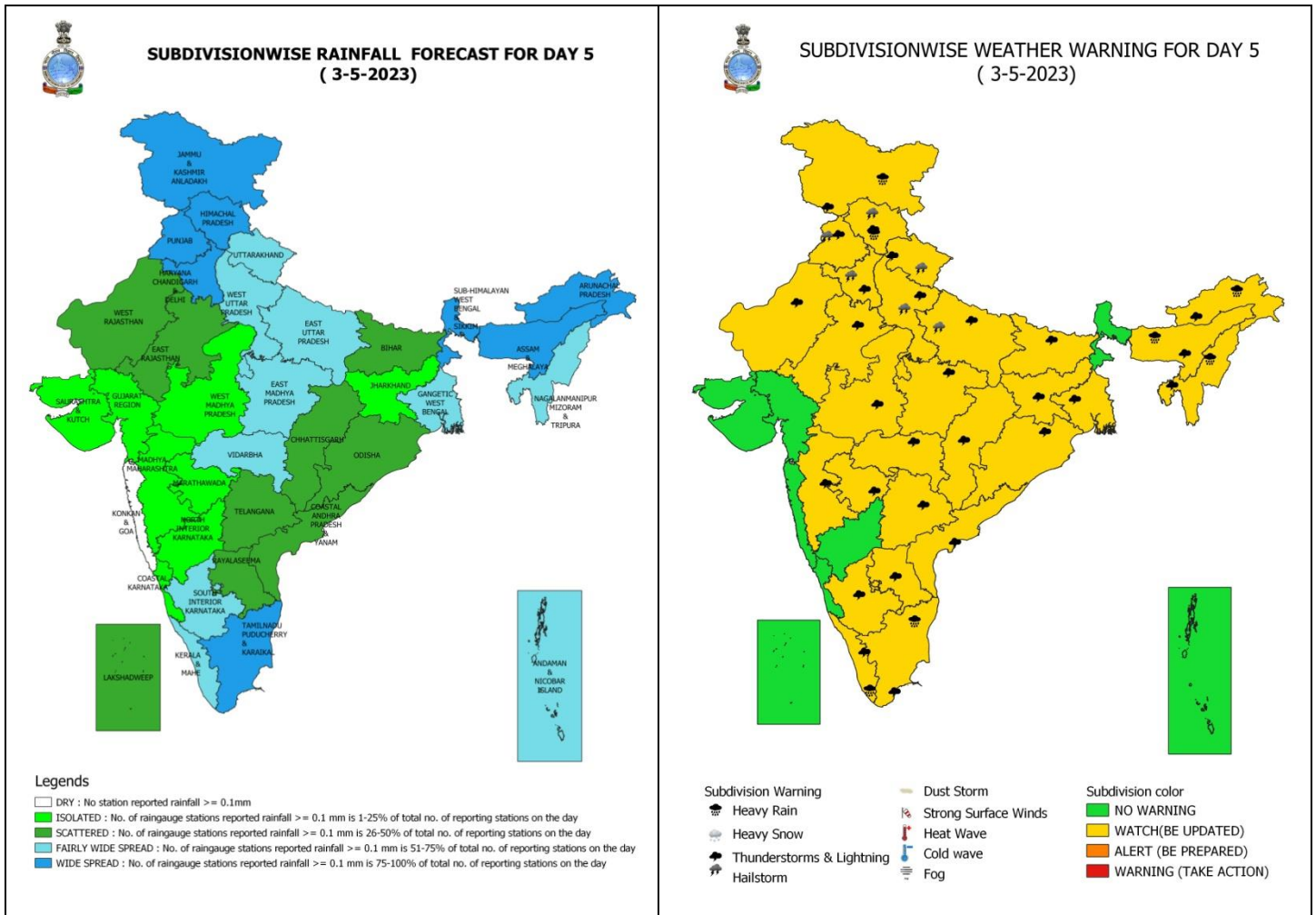
♦ **Hailstorm with lightning & squall (50-60 kmph)** likely at isolated places over Uttarakhand; **with lightning & gusty wind (40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; **with lightning** at isolated places over Himachal Pradesh.

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

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03 May (Day 5): ♦ **Heavy rainfall** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamilnadu.

♦ **Hailstorm with lightning & squall (50-60 kmph)** likely at isolated places over Uttarakhand; **with lightning & gusty wind (40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; **with lightning** at isolated places over Himachal Pradesh.

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

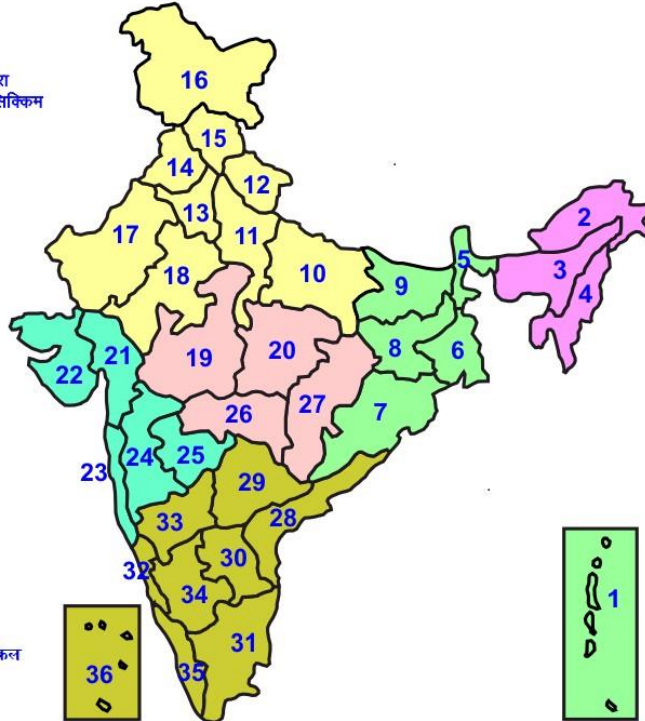
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LEGENDS

- 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 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवंम 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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