



Friday, April 28, 2023
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Significant Meteorological features:

- ❖ A Western Disturbance as a cyclonic circulation lies over south Pakistan & neighbourhood in lower & middle levels.
- ❖ A cyclonic circulation lies over central Pakistan in lower levels.
- ❖ A trough/wind discontinuity runs from west Vidarbha to north Tamil Nadu 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 East Madhya Pradesh, Vidarbha during 28th-29th and Chhattisgarh on 30th April.
- ❖ **Heavy rainfall** very likely at isolated places over Vidarbha on 28th April.

South India:

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over Andhra Pradesh, Telangana, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe during next 5 days.
- ❖ **Heavy rainfall** likely at isolated places over Kerala during next 5 days; North Interior Karnataka on 29th; South Interior Karnataka during 29th April-02nd May; Tamil Nadu during 30th April-02nd May.

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 28th & 30th April.
- ❖ **Heavy rainfall** likely at isolated places over Odisha on 28th 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, Assam & Meghalaya during 28th April-01st May and over Nagaland, Manipur, Mizoram & Tripura on 29th April.

Northwest India:

- ❖ Light/moderate 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 5 days.
- ❖ **Hailstorm** activity very likely at isolated places over Uttarakhand during 28th April-02nd May; over Punjab and Haryana on 29th & 30th April.
- ❖ **Heavy rainfall** likely at isolated places over Jammu Division, Himachal Pradesh and Uttarakhand on 01st May.
- ❖ **Duststorm** very likely at isolated places over Rajasthan during 28th-30th April, 2023.

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 4 days.
- ❖ **Hailstorm** activity very likely at isolated places over Marathwada on 28th April.

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.**

* Red color warning does not mean "Red Alert" Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798



Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830-1730 hours IST of yesterday): **at isolated places over** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh.
- ❖ **Significant rainfall recorded** (from 0830-1730 hours IST of yesterday)(in cm): Nil.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday - 0530 hours IST of today): at isolated places over West Bengal, Jharkhand, Odisha, Madhya Pradesh, Telangana, Chhattisgarh, Vidarbha, Tripura, Rajasthan, Himachal Pradesh, Uttarakhand, Haryana, and Tamil Nadu.
- ❖ **Hailstorm observed** (from 0830 hours IST of yesterday - 0530 hours IST of today): at isolated places over Himachal Pradesh, Uttarakhand, Haryana, West Rajasthan, Kerala & Mahe and Tamil Nadu.
- ❖ **Minimum Temperature Departures (as on 27-04-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Andaman & Nicobar Islands. They were **markedly below normal (-5.1°C or less)** at most places over Vidarbha; at a few places over Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Marathwada and Telangana; at a few places over East Rajasthan and West Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over Uttarakhand and Chhattisgarh; at a few places over Himachal Pradesh and Haryana, Chandigarh & Delhi; at isolated places over East Uttar Pradesh, West Rajasthan, Saurashtra & Kutch, Odisha, Madhya Maharashtra, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 15.1°C** was reported at **Malanjkhanda (East Madhya Pradesh)** over plains of the country.
- ❖ **Maximum Temperature Departures (as on 27-04-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Assam & Meghalaya and Tripura; **above normal (1.6°C to 3.0°C)** at a few places over West Bengal & Sikkim and at isolated places over Kerala & Mahe and Odisha. 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 Madhya Pradesh, Telangana, Chhattisgarh, Jharkhand; at a few places over Himachal Pradesh, Punjab, Marathwada; at isolated places over Bihar, North Interior Karnataka; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Rajasthan, Madhya Maharashtra, Marathwada; at a few places over Uttarakhand, Uttar Pradesh, Gujarat; **below normal (-1.6°C to -3.0°C)** at many places over Andhra Pradesh, Haryana, Chandigarh & Delhi and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 40.2°C** was reported at **Churu (West Rajasthan)**.

* Red color warning does not mean "Red Alert" Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Western Disturbance as a **cyclonic circulation** over south Pakistan & neighbourhood between 3.1 km & 7.6 km above mean sea level persists.
- ❖ The **cyclonic circulation** over central Pakistan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The **trough/wind discontinuity** from west Vidarbha to north Tamil Nadu across Marathwada & Interior Karnataka extending upto 1.5 km above mean sea level persists.
- ❖ The **cyclonic circulation** over east Bangladesh & neighbourhood extending upto 3.1 km above mean sea level persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 03rd 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 3-5°C during next 5 days.
- ❖ **Central & West India:** Fall in maximum temperatures by 2-3°C during next 3 days and no significant change 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 03rd - 05th 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

28 April (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Vidarbha, Odisha and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over East Madhya Pradesh and Vidarbha; **with lightning & gusty wind (30-40 kmph)** at isolated places over Uttarakhand and Odisha; **with lightning** at isolated places over Marathwada.

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

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

29 April (Day 2): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Telangana and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and Vidarbha; **with lightning & gusty wind (30-40 kmph)** at isolated places over Uttarakhand and East Madhya Pradesh.

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

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

30 April (Day 3): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Odisha, South Interior Karnataka, Telangana, Kerala & Mahe and Tamilnadu.

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and Chhattisgarh; **with lightning & gusty wind (30-40 kmph)** at isolated places over Uttarakhand and Odisha.

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

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

01 May (Day 4): ♦ **Heavy rainfall** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, South Interior Karnataka, 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 Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Sub-Himalayan West Bengal & Sikkim; **with lightning & gusty wind (30-40 kmph)** over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Bihar, Jharkhand, Telangana, Rayalaseema, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Rajasthan, Madhya Maharashtra, Marathwada, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal.

02 May (Day 5): ♦ **Heavy rainfall** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, South Interior Karnataka, 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 Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; **with lightning & gusty wind (30-40 kmph)** over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Telangana, Sub-Himalayan West Bengal & Sikkim, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Odisha and Coastal Andhra Pradesh & Yanam.

* Red color warning does not mean "Red Alert" Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798



Table-1

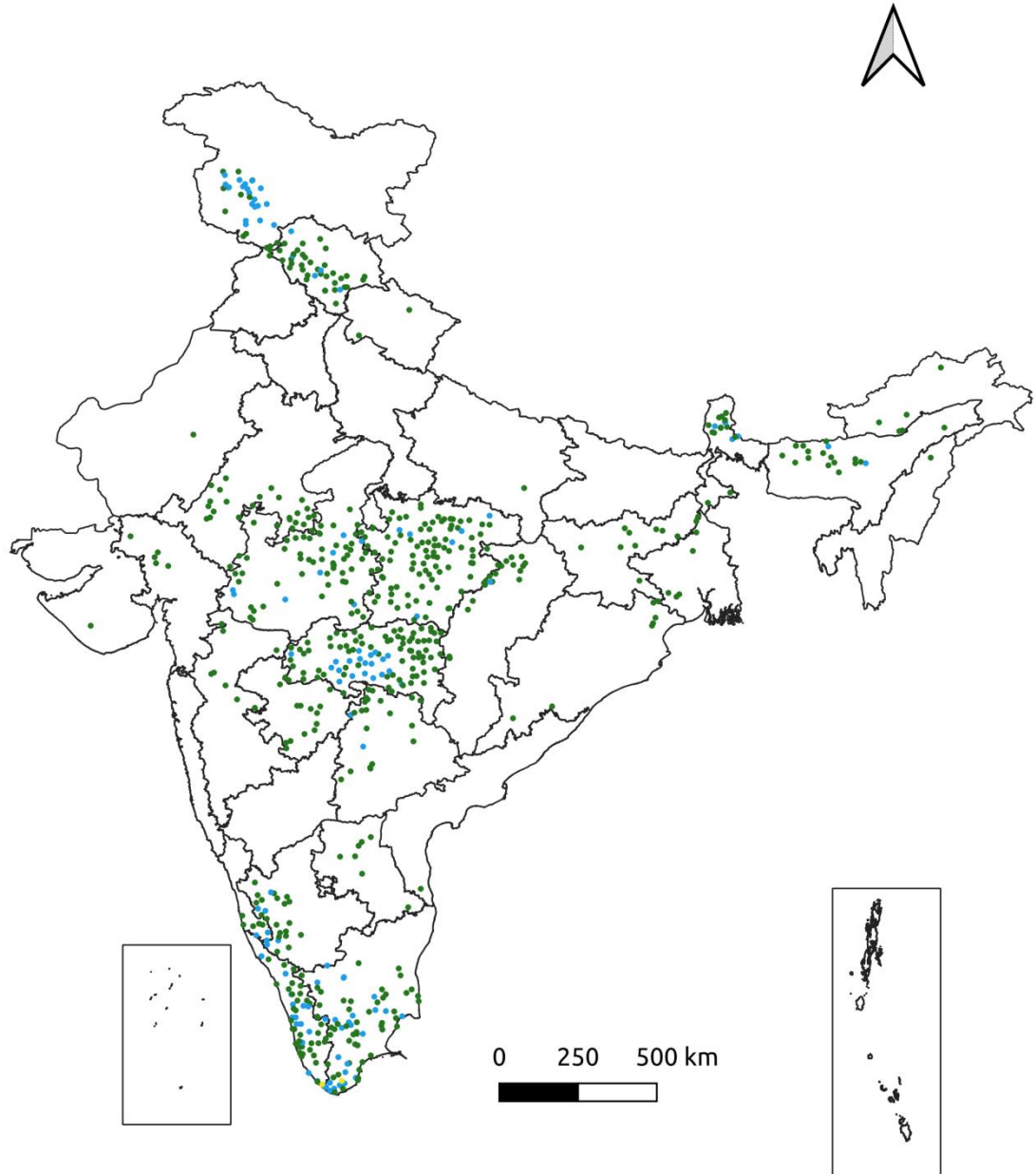
5 Day Rainfall Forecast						
S. No.	Subdivision	28-Apr	29-Apr	30-Apr	01-May	02-May
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	SCT	SCT
2	ARUNACHAL PRADESH	WS	WS	WS	WS	FWS
3	ASSAM & MEGHALAYA	SCT	FWS	WS	WS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	FWS	FWS	FWS	FWS
5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



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)

* Red color warning does not mean "Red Alert" Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

Fig. 2: Maximum Temperatures Dated 27.04.2023

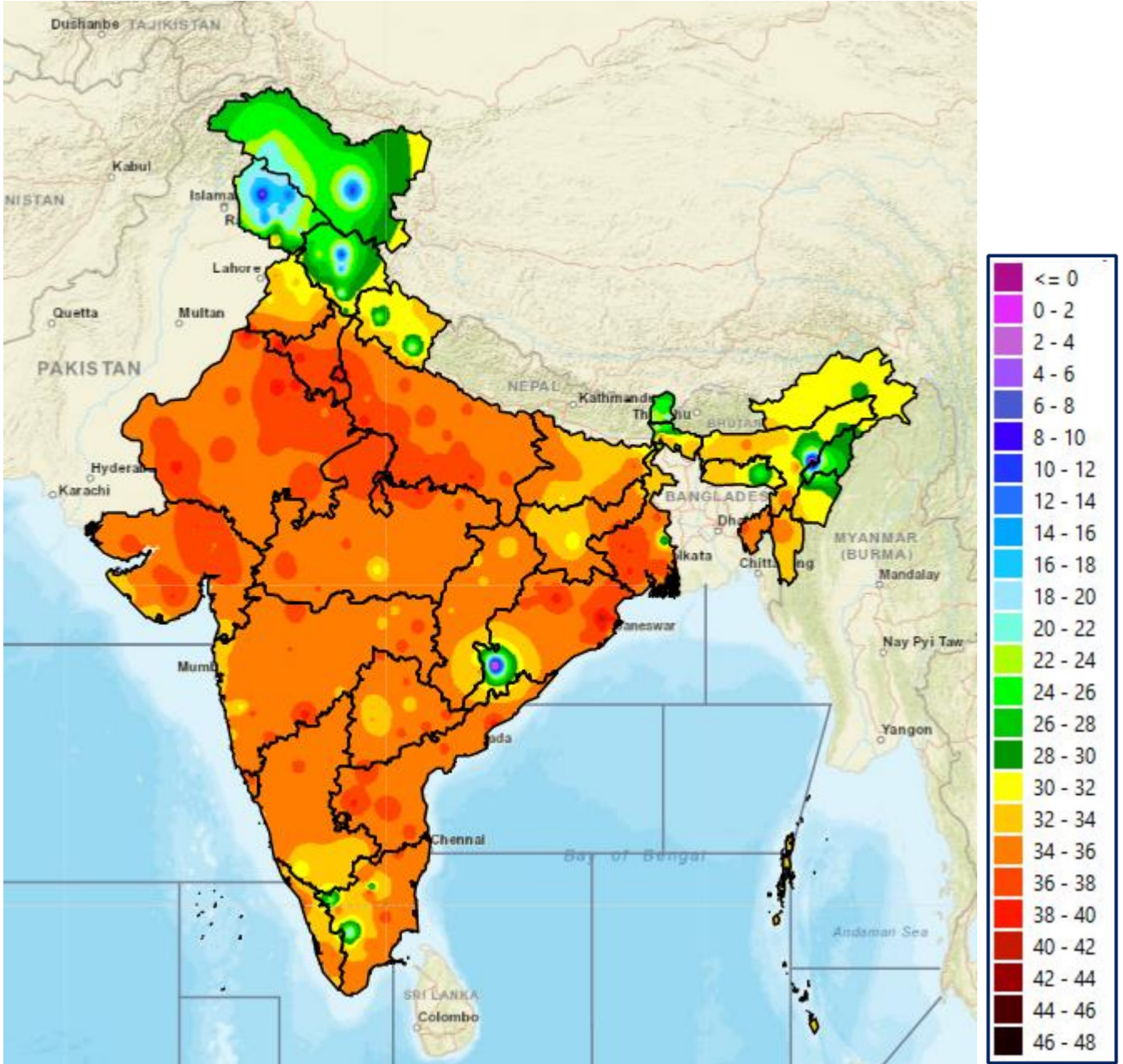
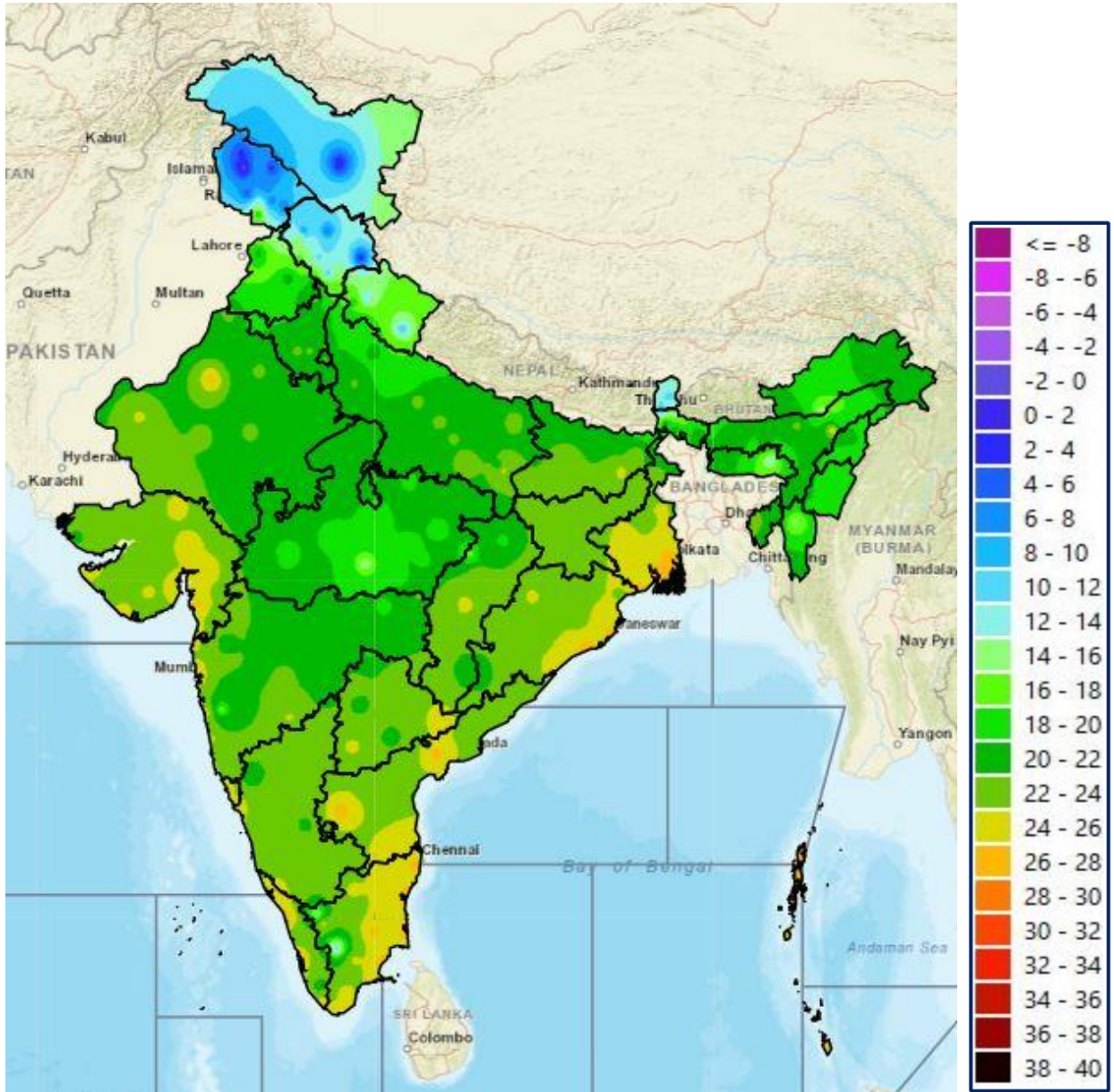


Fig. 3: Minimum Temperatures Dated 27.04.2023



* Red color warning does not mean "Red Alert" Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

Fig. 4: Departure from Normal of Maximum Temperatures Dated 27.04.2023

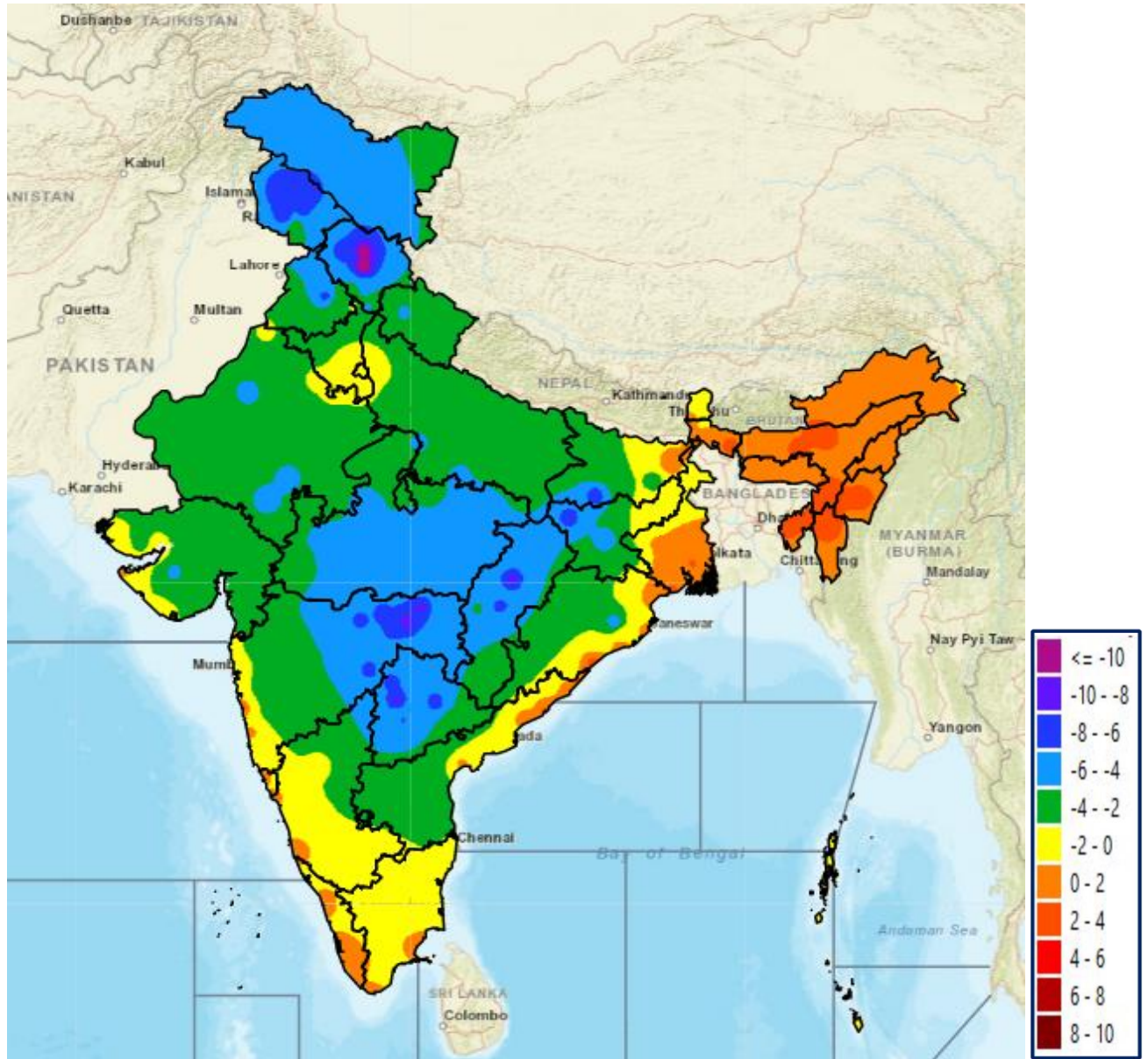
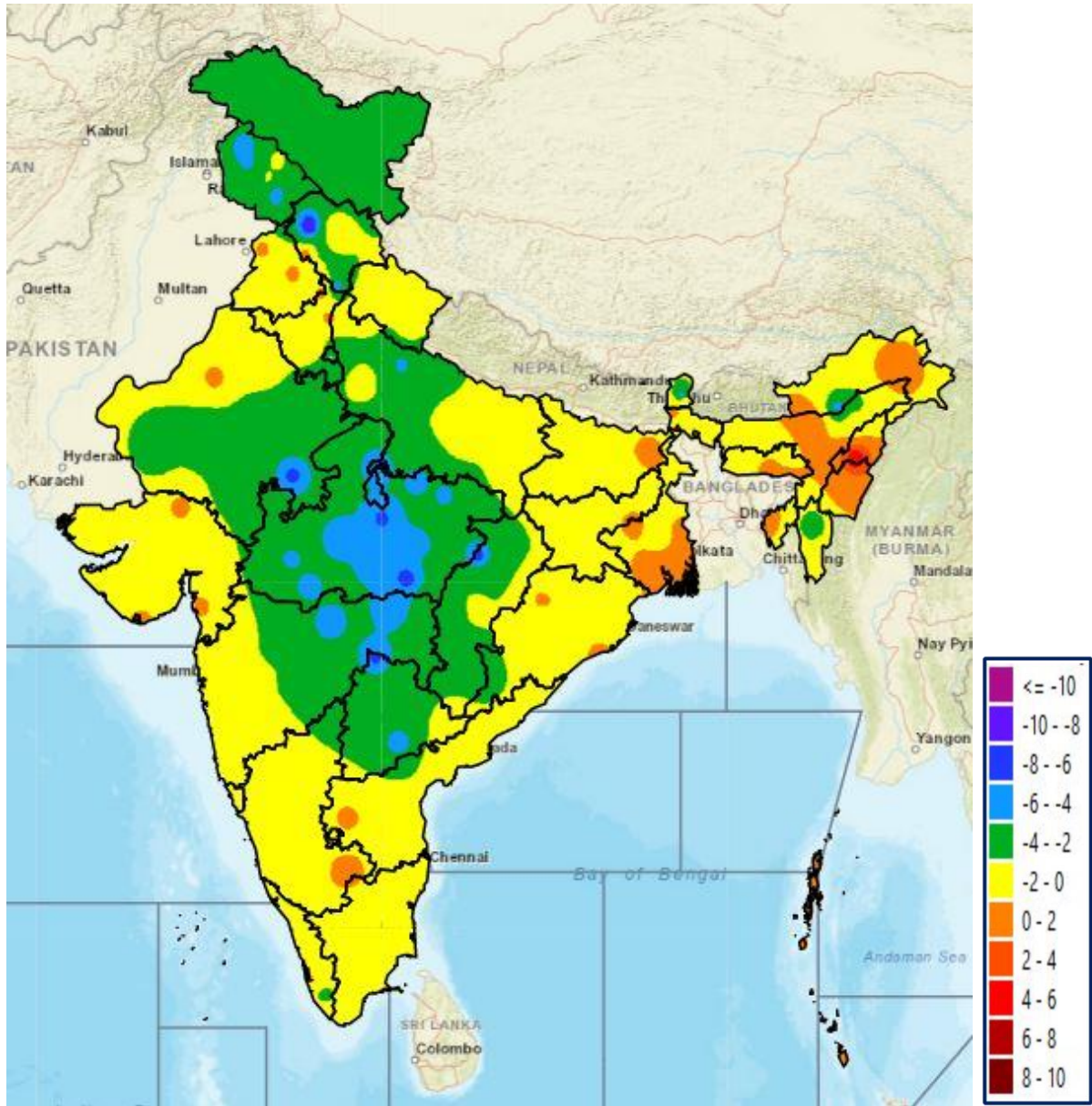
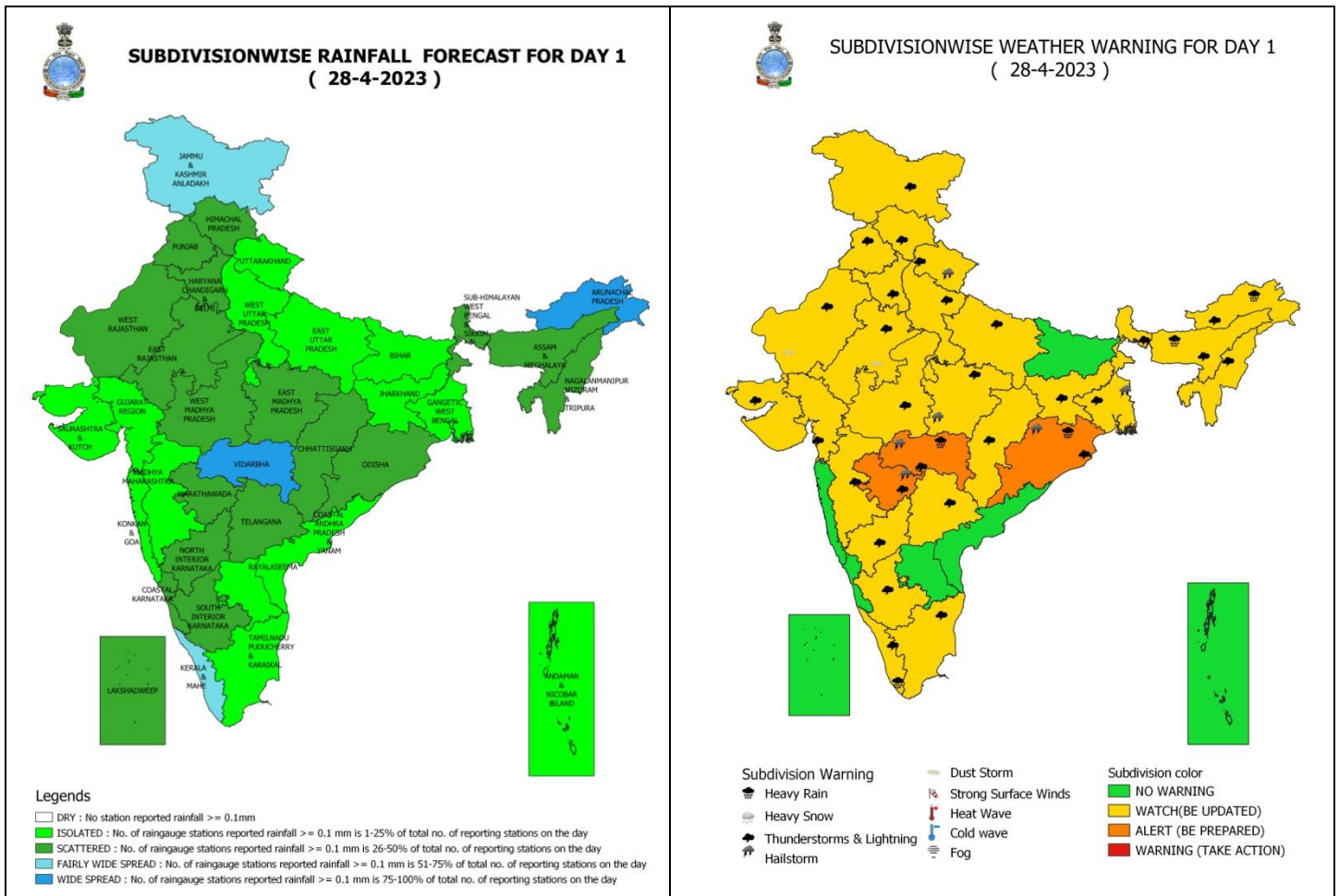


Fig. 5: Departure from Normal of Minimum Temperatures Dated 27.04.2023





28 April (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Vidarbha, Odisha and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over East Madhya Pradesh and Vidarbha; **with lightning & gusty wind (30-40 kmph)** at isolated places over Uttarakhand and Odisha; **with lightning** at isolated places over Marathwada.

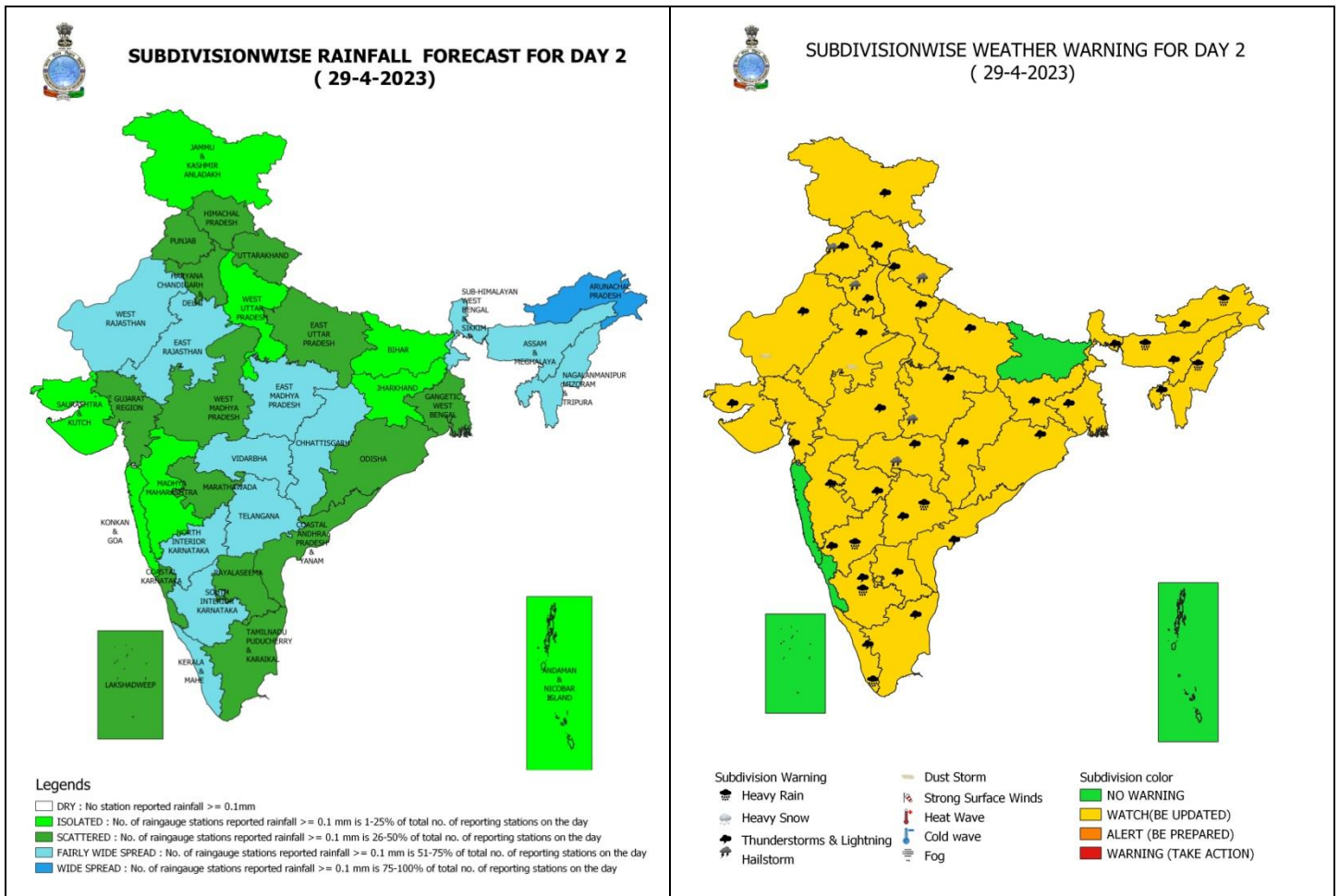
♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Rajasthan, West Madhya Pradesh; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, Chhattisgarh, Gangetic West Bengal, Jharkhand, Telangana, Kerala & Mahe; **with lightning**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

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

* Red color warning does not mean "Red Alert" Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798



29 April (Day 2): ♦ Heavy rainfall very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Telangana and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and Vidarbha; **with lightning & gusty wind (30-40 kmph)** at isolated places over Uttarakhand and East Madhya Pradesh.

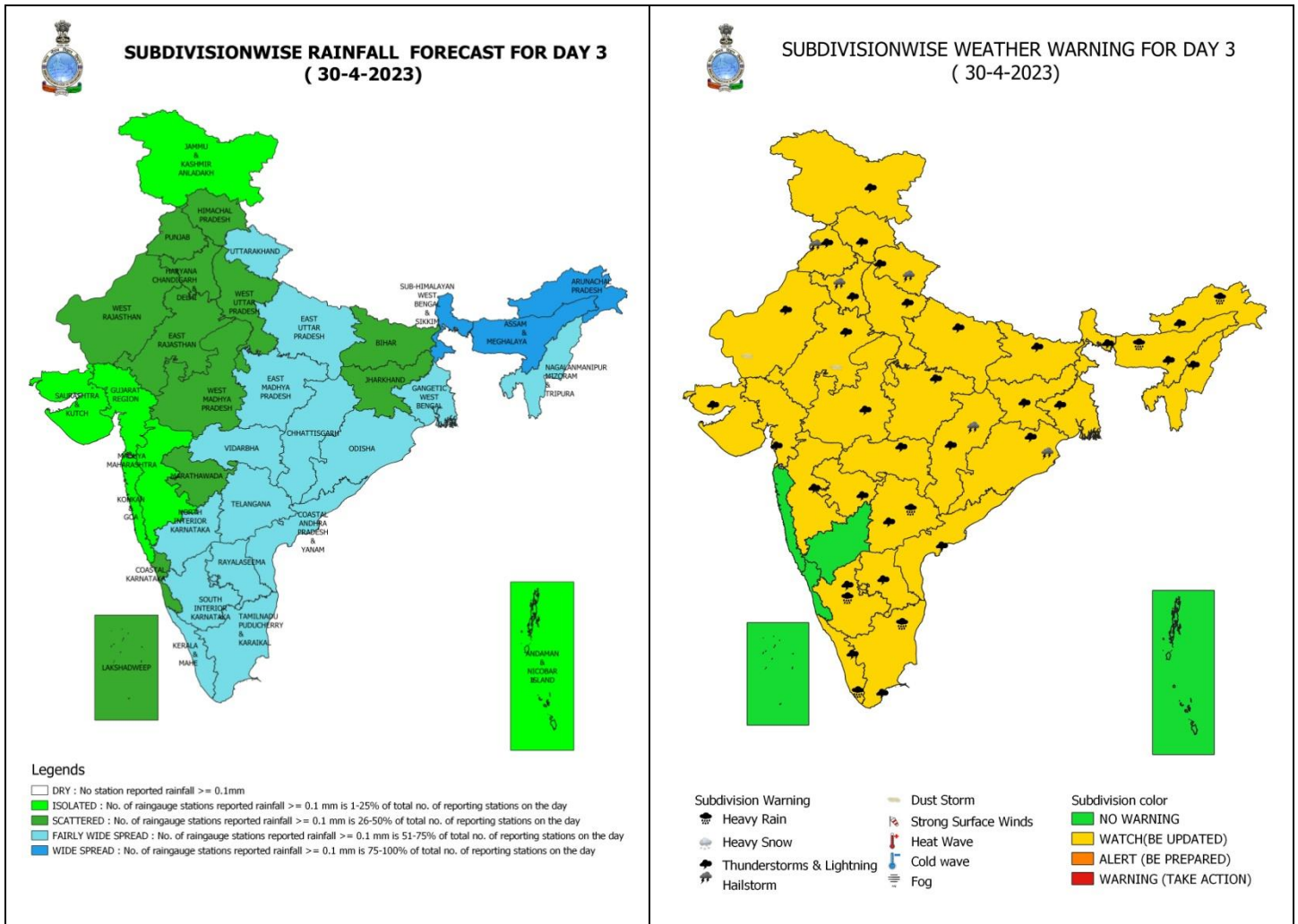
♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Rajasthan, Chhattisgarh; **with lightning & gusty wind (30-40 kmph)** over West Madhya Pradesh, West Bengal & Sikkim, Odisha, Jharkhand, Telangana, Rayalaseema, Kerala & Mahe; **with lightning** at isolated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

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

* Red color warning does not mean "Red Alert" Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798



30 April (Day 3): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Odisha, South Interior Karnataka, Telangana, Kerala & Mahe and Tamilnadu.

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and Chhattisgarh; **with lightning & gusty wind (30-40 kmph)** at isolated places over Uttarakhand and Odisha.

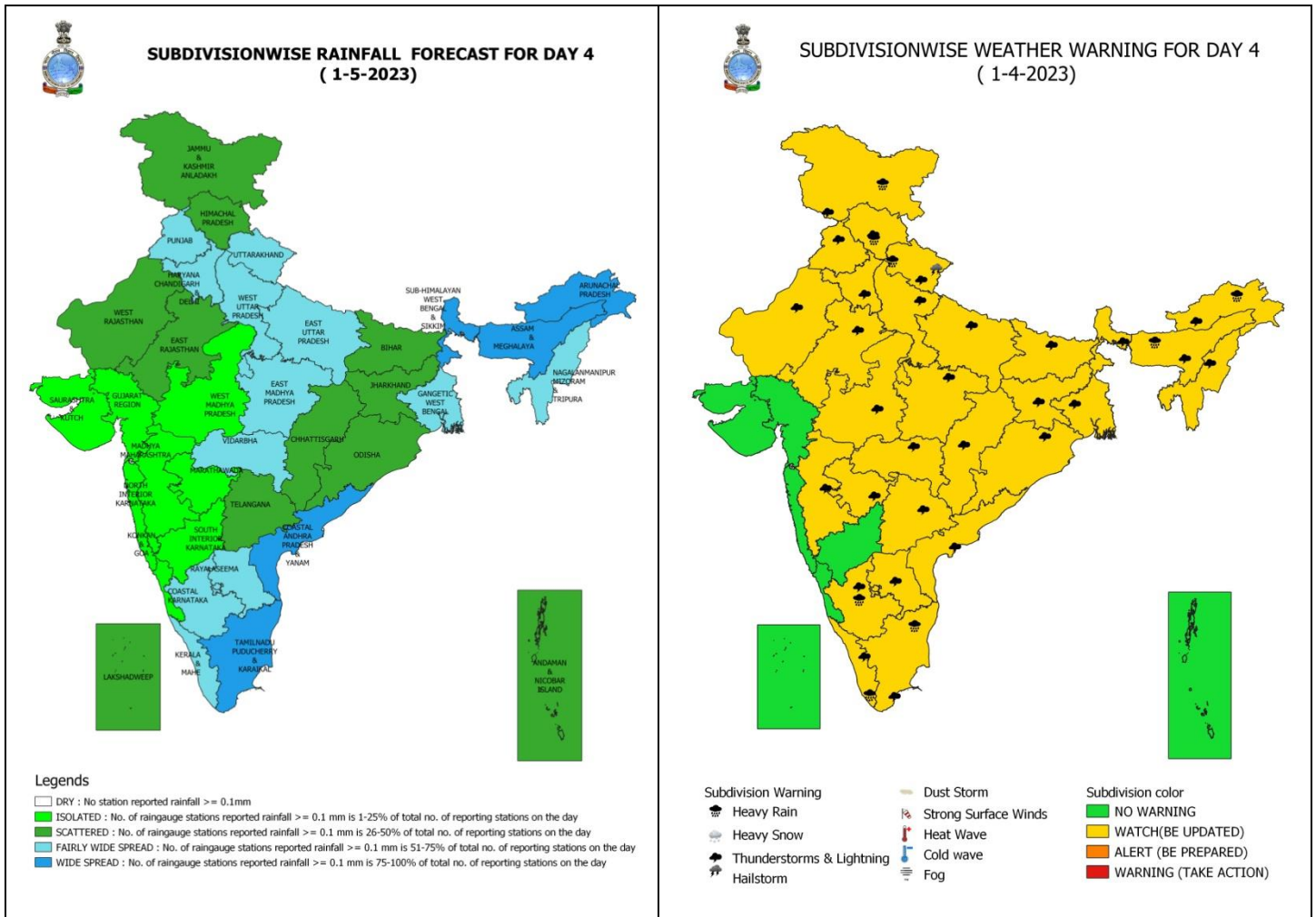
♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** likely at isolated places over Uttar Pradesh, Rajasthan, Vidarbha, Coastal Andhra Pradesh & Yanam, West Bengal & Sikkim; **with lightning & gusty wind (30-40 kmph)** over Madhya Pradesh, Bihar, Jharkhand, Telangana, Rayalaseema, Kerala & Mahe;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

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

*** Red color warning does not mean "Red Alert" Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798



01 May (Day 4): ♦ **Heavy rainfall** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, South Interior Karnataka, Kerala & Mahe and Tamilnadu.

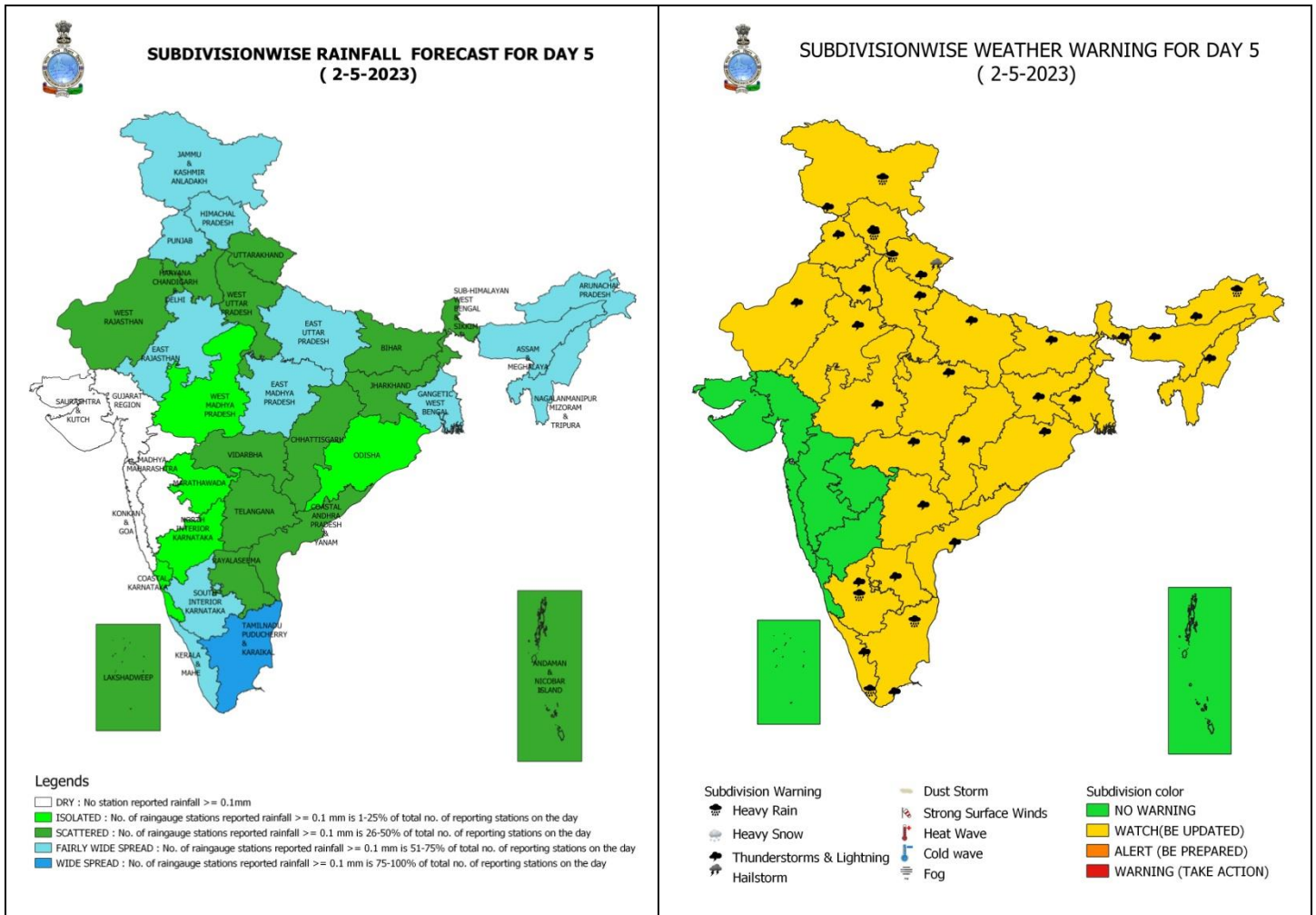
♦ **Hailstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Uttarakhand.

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

* Red color warning does not mean "Red Alert" Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798



02 May (Day 5): ♦ **Heavy rainfall** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, South Interior Karnataka, 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 Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; **with lightning & gusty wind (30-40 kmph)** over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Telangana, Sub-Himalayan West Bengal & Sikkim, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Odisha and Coastal Andhra Pradesh & Yanam.

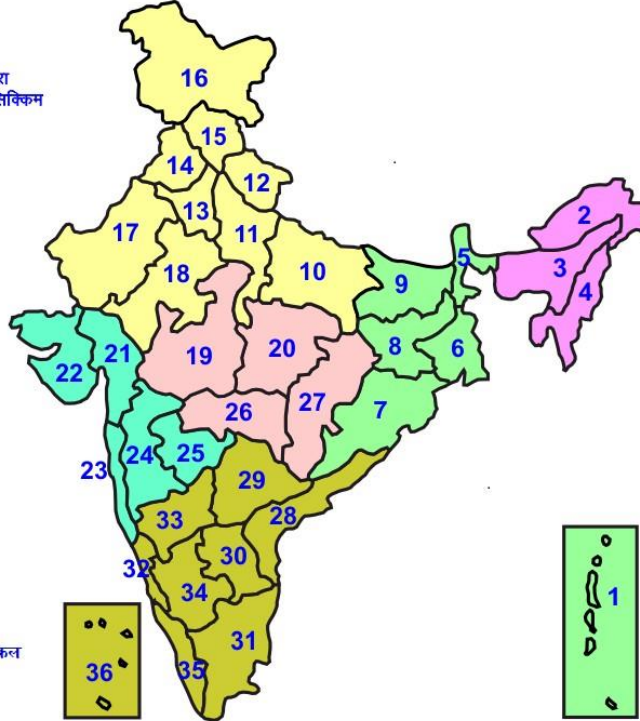
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय 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 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

* Red color warning does not mean "Red Alert" Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

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 color warning does not mean "Red Alert" Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798