

Wednesday, April 26, 2023

MID-DAY

Time of Issue: 1315 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 & adjoining Iran 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 Madhya Pradesh, 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 26th-30th and over North Interior Karnataka, Telangana on 26th & 27th; over Coastal Andhra Pradesh on 27th and over South Interior Karnataka & Rayalaseema on 29th & 30th April.
- ❖ **Hailstorm** very likely at isolated places over Telangana on 26th & 27th April and over North Interior Karnataka today.

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-30th and over Nagaland, Manipur, Mizoram & Tripura on 29th & 30th April.

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 26th & 27th and over Marathwada during 26th-28th April.

Northwest India:

- ❖ Light/moderate scattered rainfall/snowfall with thunderstorm/lightning very likely over Western Himalayan Region during 26th-30th April and isolated to scattered rainfall with thunderstorm/lightning over plains of Northwest India during 27th-30th April.
- ❖ **Hailstorm** activity very likely at isolated places over Jammu & Kashmir on 26th; Himachal Pradesh on 26th & 27th and over Uttarakhand during 27th-30th April.
- ❖ **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.
- ❖ **Due to humid air and high temperature, hot and discomfort weather very likely over Kutch today.**

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

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Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at many places over** Kerala & Mahe, Vidarbha, Odisha; **at a few places over** Tamilnadu, Puducherry & Karaikal, Interior Karnataka, Chhattisgarh, Jharkhand, Arunachal Pradesh; **at isolated places over** Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, Bihar, West Bengal & Sikkim, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Madhya Maharashtra, Marathwada, Gujarat Region, Coastal Karnataka, Coastal Andhra Pradesh, Telangana, Rayalaseema and South Interior Karnataka.
- ❖ **Heavy rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Odisha, Coastal Andhra Pradesh, Rayalaseema, Telangana, North Interior Karnataka, Kerala and Tamilnadu.
- ❖ **Significant rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today)(in cm): **Kerala:** Kottayam 9, Cherthala (Alappuzha district) 8, Kanjirappally (Kottayam district) 7, Cherthala AWS (Alappuzha district) 5; **Tamil Nadu:** Periyakulam (dist Theni) 7, Chinnakalar (dist Coimbatore) 6, **Telangana:** Mirdoddi (dist Siddipet) 10, Mominpet (dist Vikarabad) 9, Bhuvanagiri (dist Y. Bhuvanagiri) 9, Hakimpet Iaf (dist M. Malkajgiri) 8, Bhongir(arg) (dist Y. Bhuvanagiri) 8, Midjil (dist Mahabubnagar) 8, Narayanpet (dist Narayanpet) 8, Madhira (dist Khammam) 8, **Coastal Andhra Pradesh:** Jiyyamma Valasa (dist Parvathipuram Manyam) 7, Komarada (dist Parvathipuram Manyam) 6, **Odisha:** Jeypore (dist Koraput) 10, Rudaigiri (dist Gajapati) 8, Bhadrak (dist Bhadrak) 5, Koksara (dist Kalahandi) 5, Harichandanpur (dist Keonjhar) 5, **Rayalaseema:** Yemmiganur (dist Kurnool) 11, Banaganapalle (dist Nandyal) 9, Gonegandla (dist Kurnool) 7, **North Interior Karnataka:** L Saidapur (dist Yadgir) 7, Aurad (dist Bidar) 3, **South Interior Karnataka** Balehonnur (dist Chikkamagaluru) 3
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Kerala, Chhattisgarh, Vidarbha and north Odisha and at isolated places over Jammu & Kashmir, Assam & Meghalaya, West Bengal & Sikkim, Jharkhand, East Madhya Pradesh, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Hailstorm observed:** at isolated places over Jammu & Kashmir, Uttarakhand, Jharkhand, Odisha, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Marathwada and Telangana.
- ❖ **Minimum Temperature Departures (as on 26-04-2023):** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at a few places over Saurashtra & Kutch. They are **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. Today, **the lowest minimum temperature of 14.4°C** is reported at **Pantnagar (Uttarakhand)** over plains of the country.
- ❖ **Maximum Temperature Departures (as on 25-04-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Assam & Meghalaya and at isolated places over Saurashtra & Kutch; **above normal (1.6°C to 3.0°C)** at most places over Nagaland, Manipur, Mizoram & Tripura; at a few places Kerala & Mahe and at isolated places over Konkan & Goa; They were **markedly below normal (-5.1°C or less)** at many places over East Uttar Pradesh and Jharkhand; at a few places over Chhattisgarh and at isolated places over West Uttar Pradesh, Odisha, Vidarbha, East Madhya Pradesh and Telangana; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Haryana, Chandigarh & Delhi; at many places over Uttarakhand and East Rajasthan; at a few places over Gangetic West Bengal, Punjab and Bihar and at isolated places over West Madhya Pradesh, Coastal Andhra Pradesh and Tamilnadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at many places over Rayalaseema and at a few places over West Rajasthan and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 41.4°C** was reported at **Surendranagar (Saurashtra & Kutch)**.

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Meteorological Analysis (Based on 0830 hours IST)

- ❖ The Western Disturbance as a **cyclonic circulation** over Pakistan & adjoining Iran 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.
- ❖ A cyclonic circulation lies over southwest Rajasthan & neighbourhood between 1.5 km & 3.1 km above mean sea level.
- ❖ The **trough** in westerlies roughly along Long. 80°E to the north of 28°N in middle tropospheric levels has become less marked.
- ❖ The **cyclonic circulation** over northeast Bangladesh & neighbourhood at 1.5 km above mean sea level has become less marked.

Weather Forecast for next 5 days (Upto 0830 hours IST of 01st 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 3 days and no significant change thereafter.
- ❖ **Northwest India:** Rise by 2°C in maximum temperatures during next 24 hours and fall by 2-4°C thereafter.
- ❖ **West India:** No significant change in maximum temperatures during next 24 hours and fall by 2-4°C thereafter.
- ❖ **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 01st-03rd 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

26 April (Day 1): ♦ Heavy rainfall very likely at isolated places over Kerala & Mahe, Tamilnadu, Telangana and North Interior Karnataka .

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Telangana; **with thunderstorm, lightning & gusty wind (30-40 kmph)** at isolated places over Madhya Maharashtra, Marathwada, North Interior Karnataka; **with thunderstorm & lightning** at isolated places over Jammu & Kashmir, Himachal Pradesh.

♦ **Thunderstorm with lightning & gusty wind (30-40 kmph)** very likely at isolated places over Rajasthan, Gangetic West Bengal, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe **with lightning** at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh.

27 April (Day 2): ♦ 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 **with thunderstorm & lightning** at isolated places over Uttarakhand, Himachal Pradesh.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Madhya Pradesh, Chhattisgarh, Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Kerala & Mahe, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Vidarbha, 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 3): ♦ 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 4): ♦ 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 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

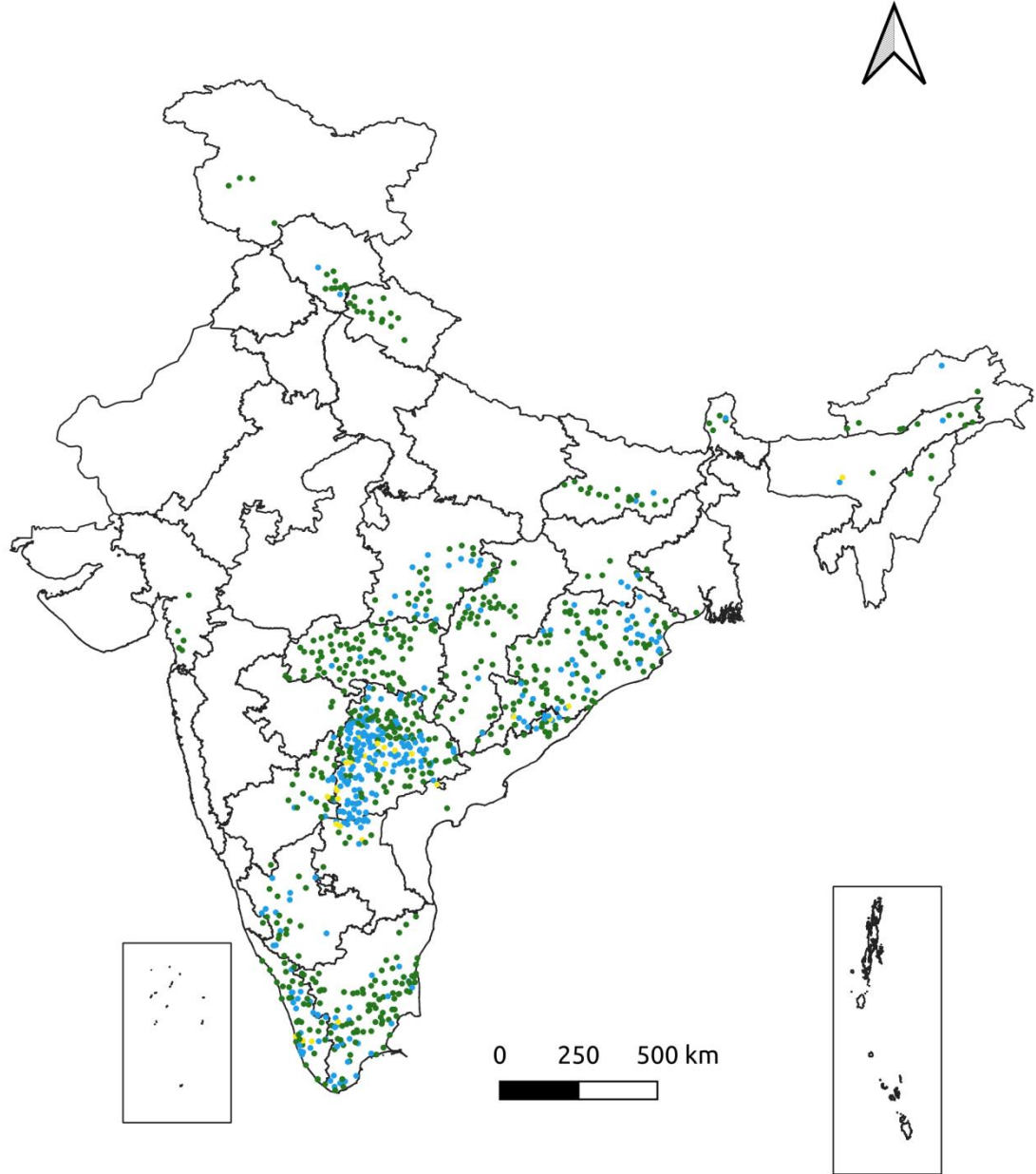
5 Day Rainfall Forecast						
S. No.	Subdivision	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	ISOL	SCT	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	SCT	FWS	WS	FWS	FWS
3	ASSAM & MEGHALAYA	ISOL	SCT	FWS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	ISOL	SCT	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	SCT	SCT	SCT	FWS
6	GANGETIC WEST BENGAL	ISOL	SCT	ISOL	ISOL	SCT
7	ODISHA	SCT	SCT	SCT	SCT	SCT
8	JHARKHAND	SCT	ISOL	ISOL	ISOL	SCT
9	BIHAR	ISOL	ISOL	ISOL	ISOL	SCT
10	EAST UTTAR PRADESH	DRY	DRY	ISOL	ISOL	SCT
11	WEST UTTAR PRADESH	DRY	ISOL	ISOL	ISOL	SCT
12	UTTARAKHAND	ISOL	SCT	SCT	SCT	SCT
13	HARYANA CHANDIGARH & DELHI	DRY	ISOL	SCT	SCT	SCT
14	PUNJAB	ISOL	ISOL	SCT	SCT	SCT
15	HIMACHAL PRADESH	SCT	SCT	SCT	SCT	SCT
16	JAMMU & KASHMIR AND LADAKH	SCT	SCT	SCT	SCT	ISOL
17	WEST RAJASTHAN	ISOL	ISOL	SCT	FWS	SCT
18	EAST RAJASTHAN	ISOL	ISOL	SCT	FWS	SCT
19	WEST MADHYA PRADESH	ISOL	ISOL	SCT	SCT	SCT
20	EAST MADHYA PRADESH	SCT	SCT	SCT	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	ISOL	SCT	FWS
29	TELANGANA	FWS	FWS	FWS	FWS	FWS
30	RAYALASEEMA	SCT	SCT	SCT	FWS	FWS
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	SCT	SCT	SCT	FWS
32	COASTAL KARNATAKA	ISOL	ISOL	SCT	SCT	SCT
33	NORTH INTERIOR KARNATAKA	SCT	SCT	FWS	FWS	SCT
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	FWS	FWS	FWS
35	KERALA & MAHE	FWS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	DRY	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 25.04.2023

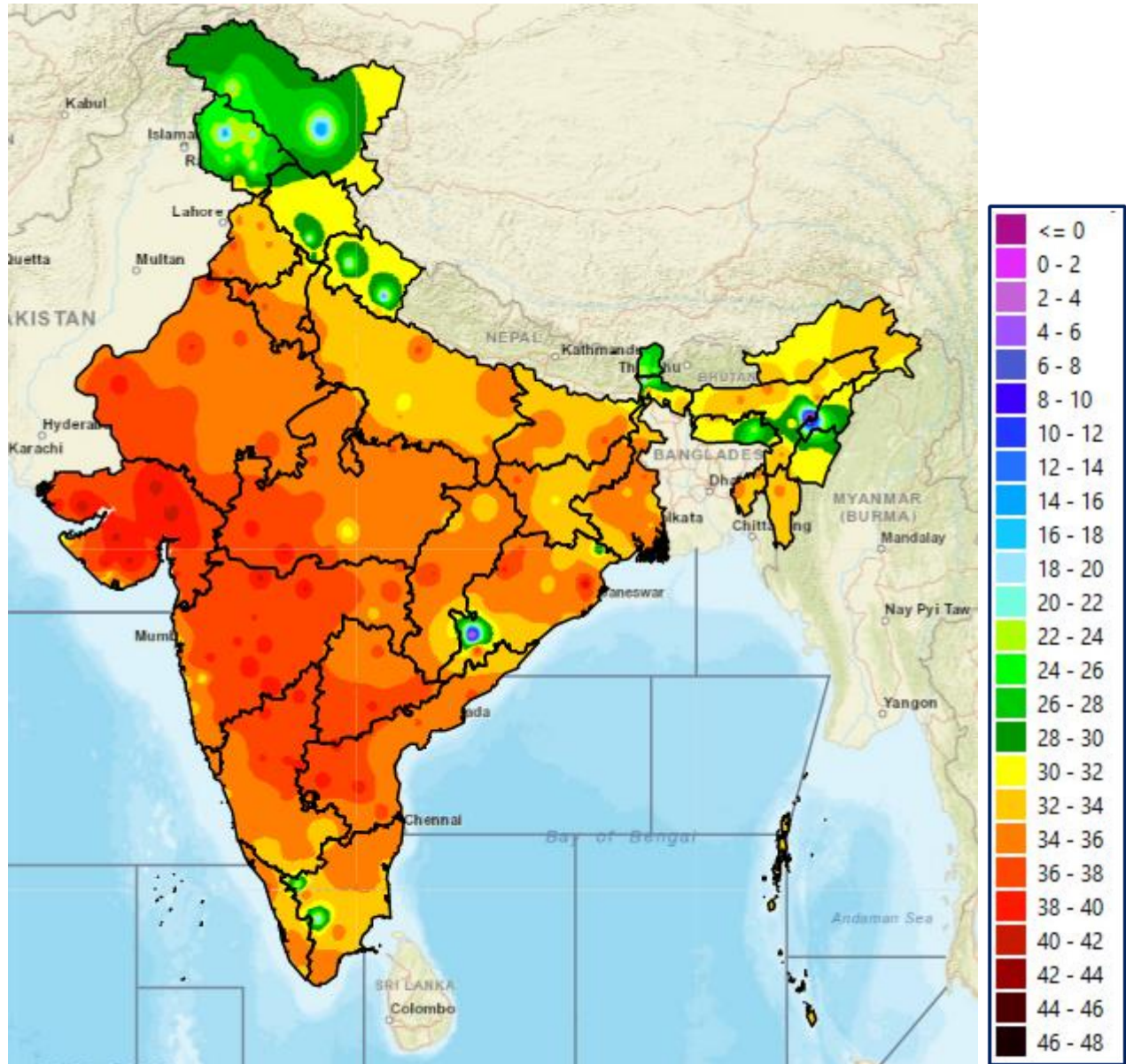
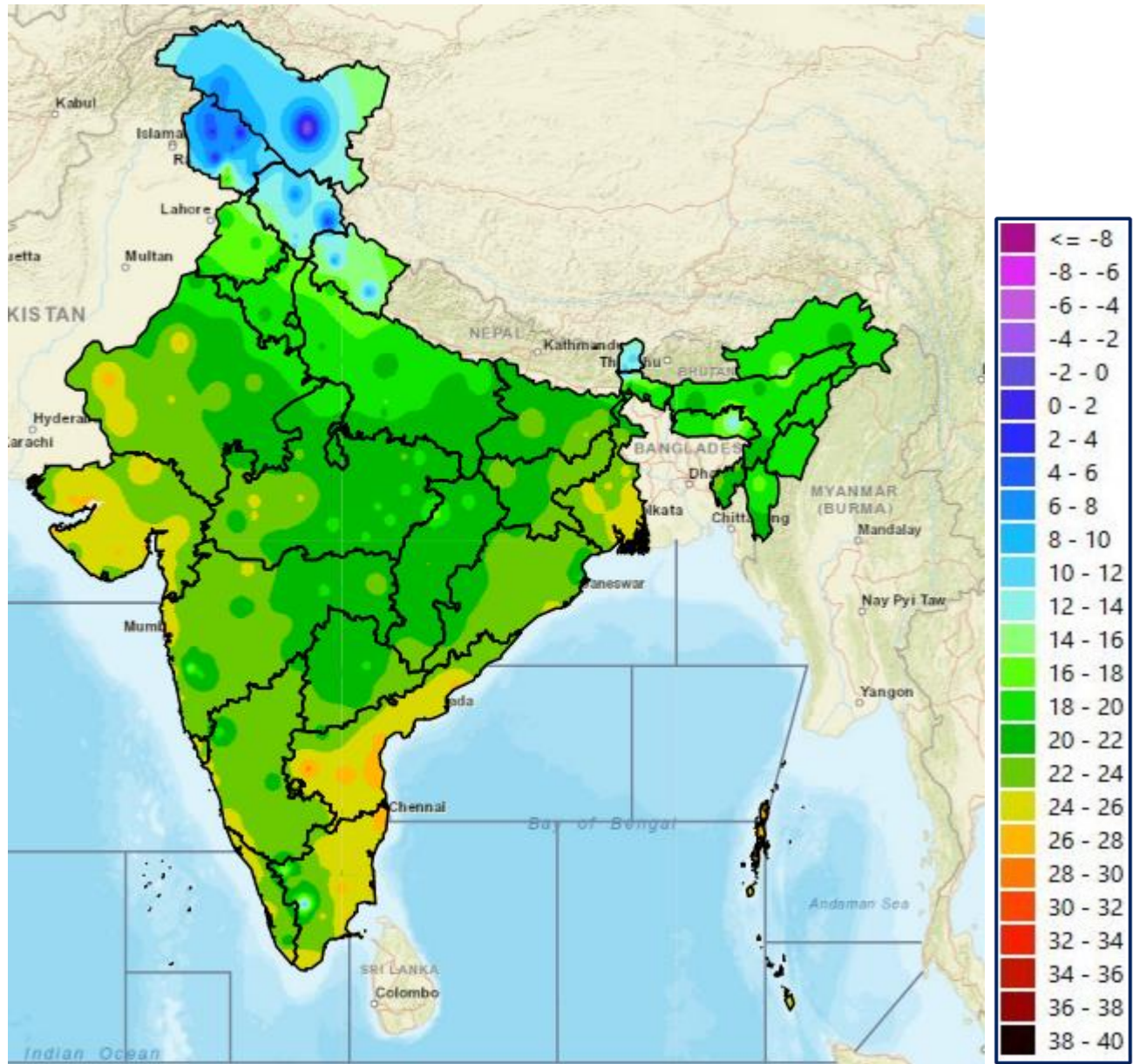


Fig. 3: Minimum Temperatures Dated 26.04.2023

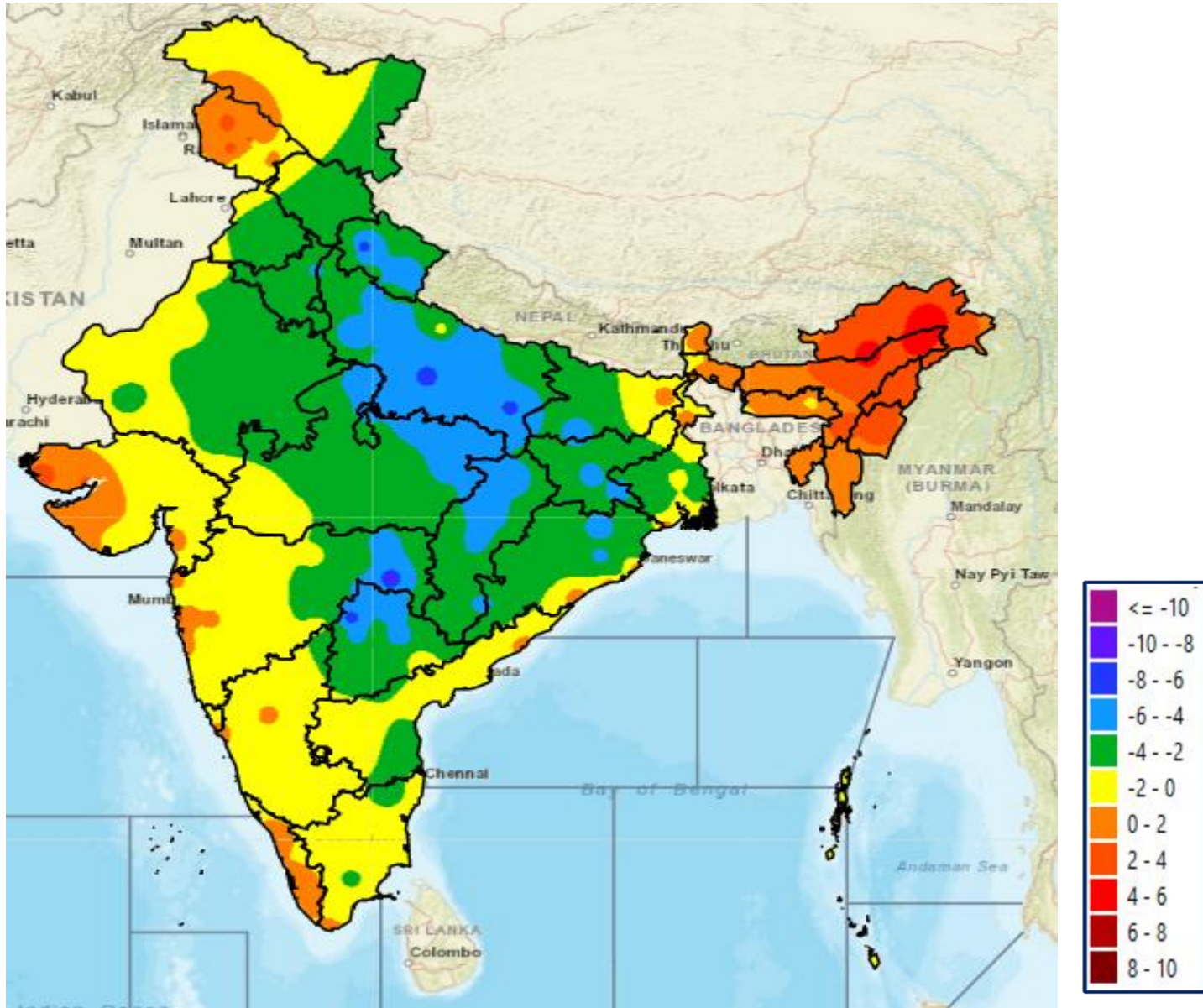


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Fig. 4: Departure from Normal of Maximum Temperatures Dated 25.04.2023

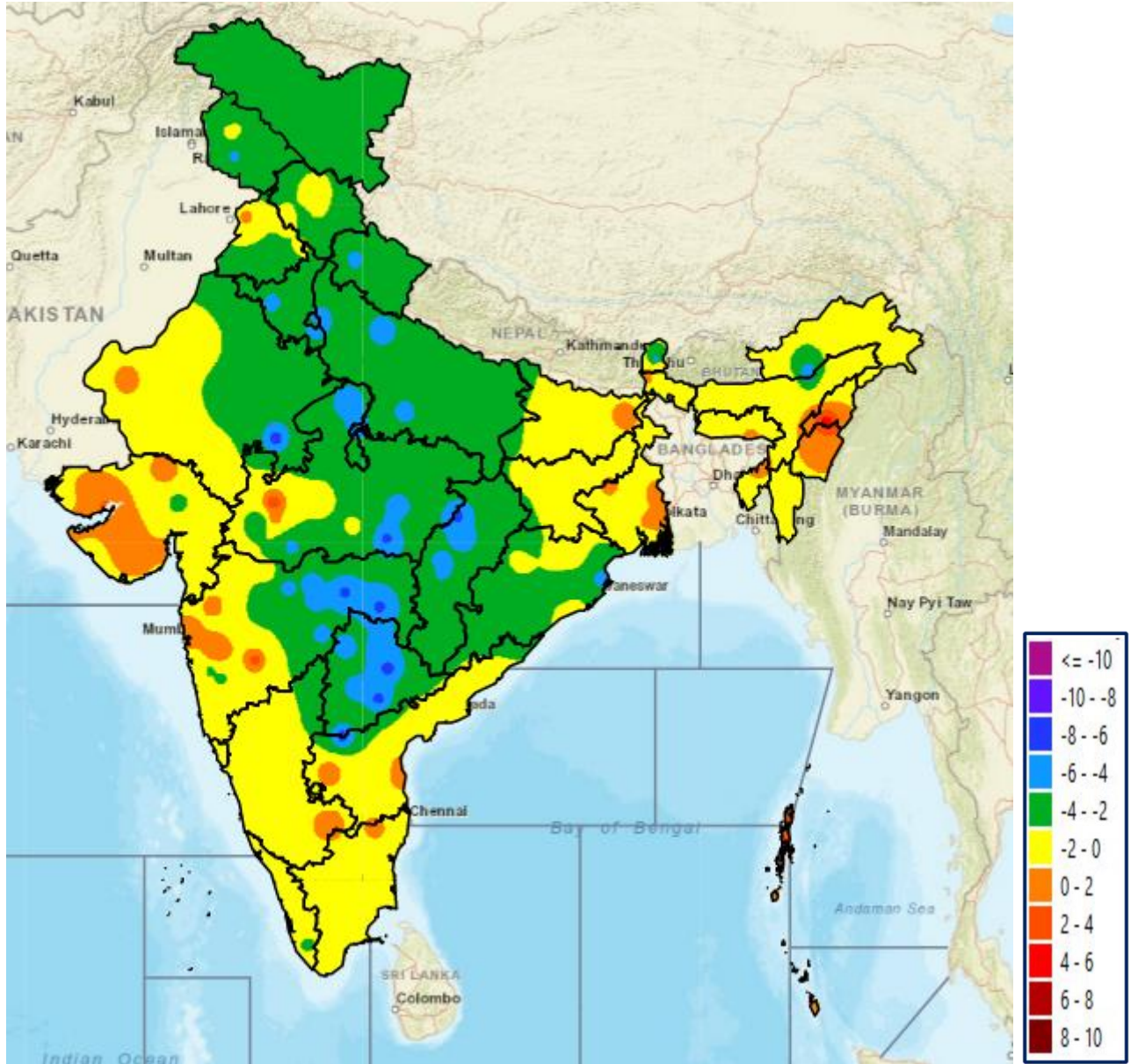


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Fig. 5: Departure from Normal of Minimum Temperatures Dated 25.04.2023



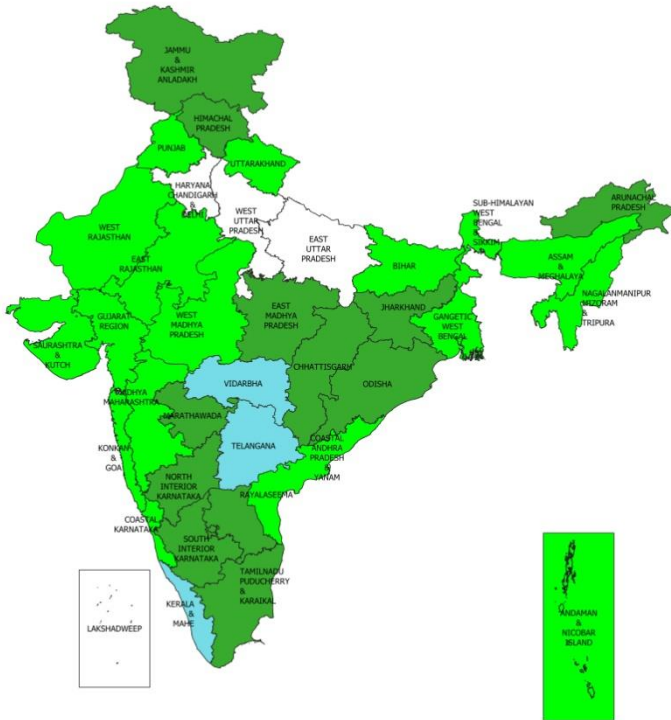
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SUBDIVISIONWISE RAINFALL FORECAST FOR DAY 1 (26-4-2023)

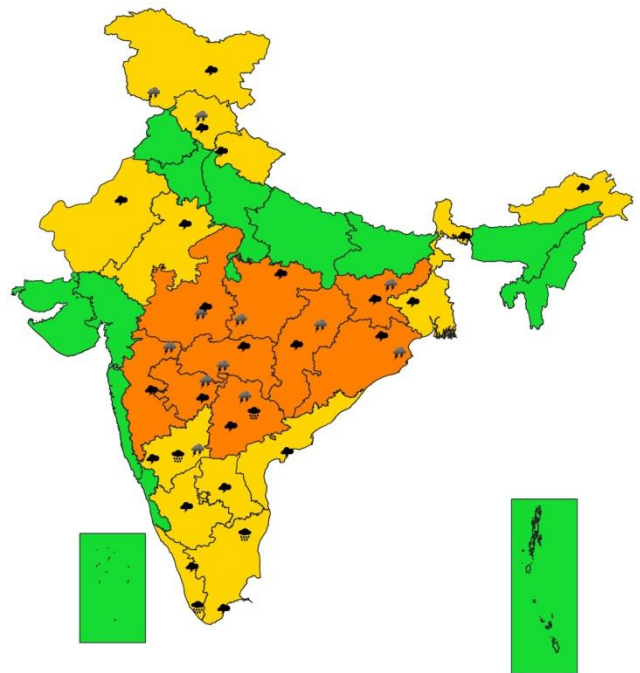


Legends

- DRY : No station reported rainfall ≥ 0.1 mm.
- ISOLATED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 1-25% of total no. of reporting stations on the day
- SCATTERED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 26-50% of total no. of reporting stations on the day
- FAIRLY WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 51-75% of total no. of reporting stations on the day
- WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 75-100% of total no. of reporting stations on the day



SUBDIVISIONWISE WEATHER WARNING FOR DAY 1 (26-4-2023)



Subdivision Warning

- ☁ Heavy Rain
- ❄ Heavy Snow
- ⚡ Thunderstorms & Lightning
- ⚡ Hailstorm

Dust Storm

- 🌪 Strong Surface Winds
- 🔥 Heat Wave
- ❄ Cold wave
- 🌫 Fog

Subdivision color

- NO WARNING
- WATCH (BE UPDATED)
- ALERT (BE PREPARED)
- WARNING (TAKE ACTION)

26 April (Day 1): ♦ Heavy rainfall very likely at isolated places over Kerala & Mahe, Tamilnadu, Telangana and North Interior Karnataka .

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Telangana; **with thunderstorm, lightning & gusty wind (30-40 kmph)** at isolated places over Madhya Maharashtra, Marathwada, North Interior Karnataka; **with thunderstorm & lightning** at isolated places over Jammu & Kashmir, Himachal Pradesh.

♦ **Thunderstorm with lightning & gusty wind (30-40 kmph)** very likely at isolated places over Rajasthan, Gangetic West Bengal, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe **with lightning** at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh.

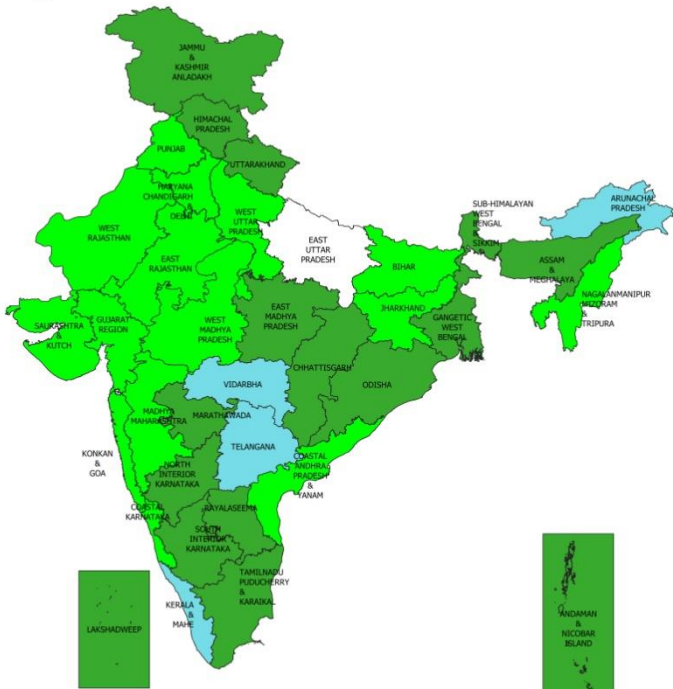
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SUBDIVISIONWISE RAINFALL FORECAST FOR DAY 2 (27-4-2023)

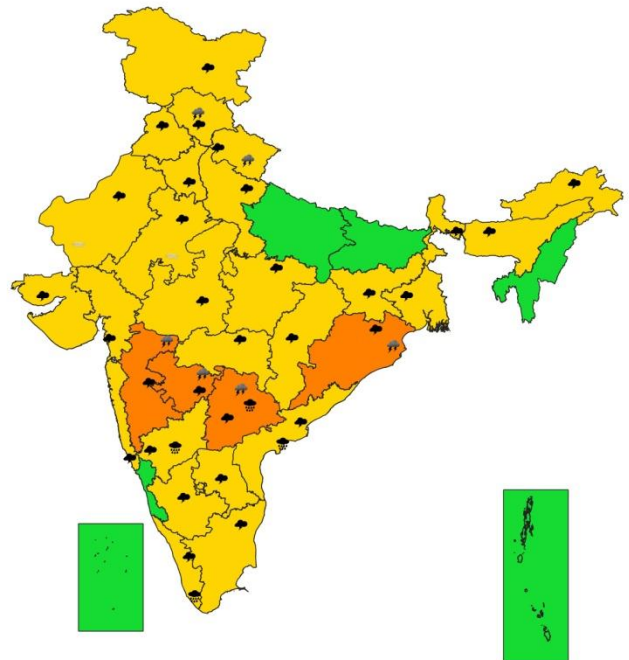


Legends

□ DRY : No station reported rainfall ≥ 0.1 mm
 ■ ISOLATED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 1-25% of total no. of reporting stations on the day
 ■ SCATTERED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 26-50% of total no. of reporting stations on the day
 ■ FAIRLY WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 51-75% of total no. of reporting stations on the day
 ■ WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 75-100% of total no. of reporting stations on the day



SUBDIVISIONWISE WEATHER WARNING FOR DAY 2 (27-4-2023)



Subdivision Warning

☁ Heavy Rain
 ❄ Heavy Snow
 ⚡ Thunderstorms & Lightning
 🌧 Hailstorm

Dust Storm

🌪 Strong Surface Winds
 🔥 Heat Wave
 ❄ Cold wave
 🌫 Fog

Subdivision color

■ NO WARNING
 ■ WATCH (BE UPDATED)
 ■ ALERT (BE PREPARED)
 ■ WARNING (TAKE ACTION)

27 April (Day 2): ♦ 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 **with thunderstorm & lightning** at isolated places over Uttarakhand, Himachal Pradesh.

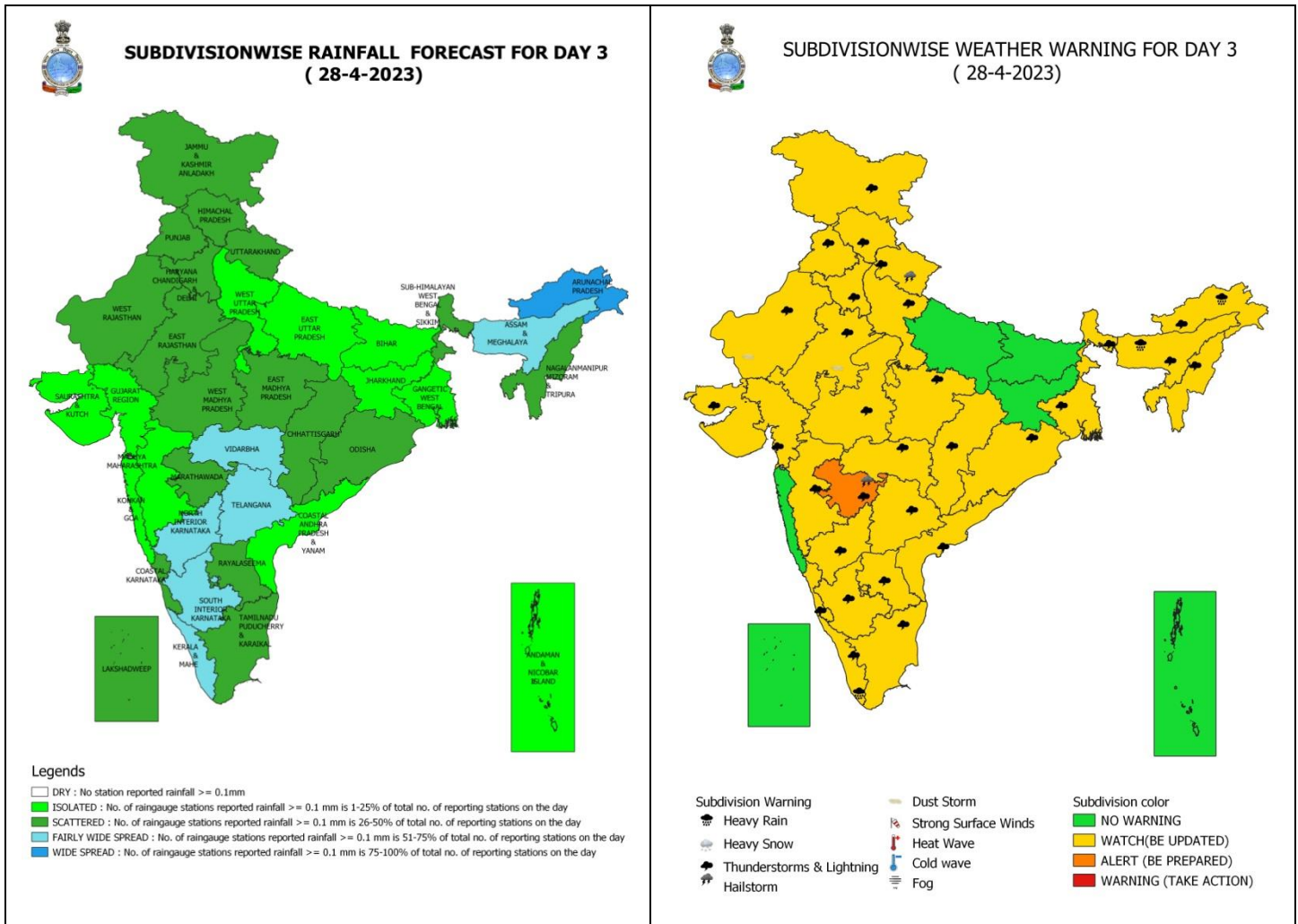
♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Madhya Pradesh, Chhattisgarh, Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Kerala & Mahe, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Vidarbha, West Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Gujarat state 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".

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28 April (Day 3): ♦ 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.

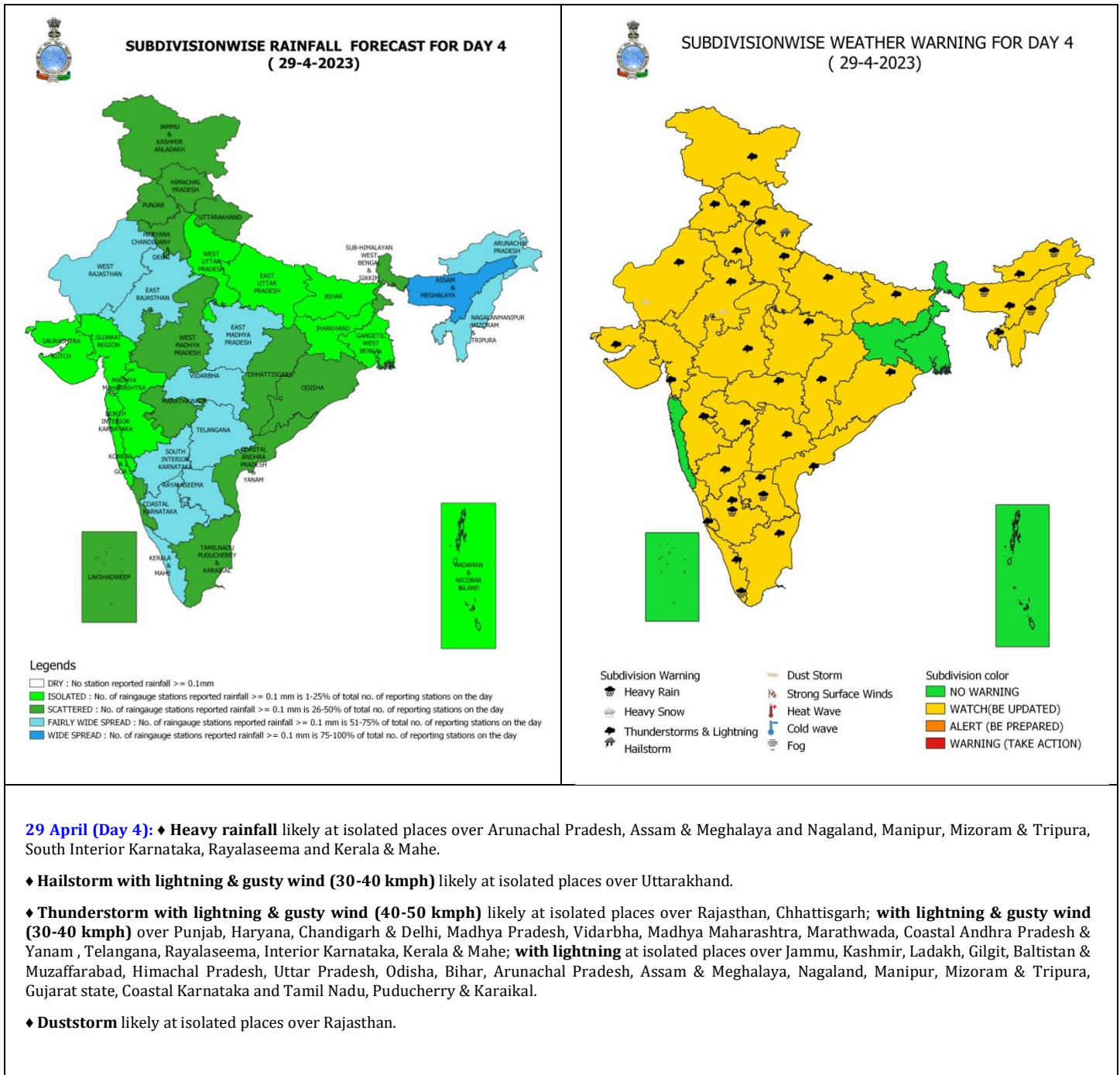
♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Rajasthan, Madhya Pradesh and Chhattisgarh; **with lightning & gusty wind (30-40 kmph)** over Punjab, Haryana, Chandigarh & Delhi, Vidarbha, West Bengal & Sikkim, Madhya Maharashtra, Coastal Andhra Pradesh & 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.

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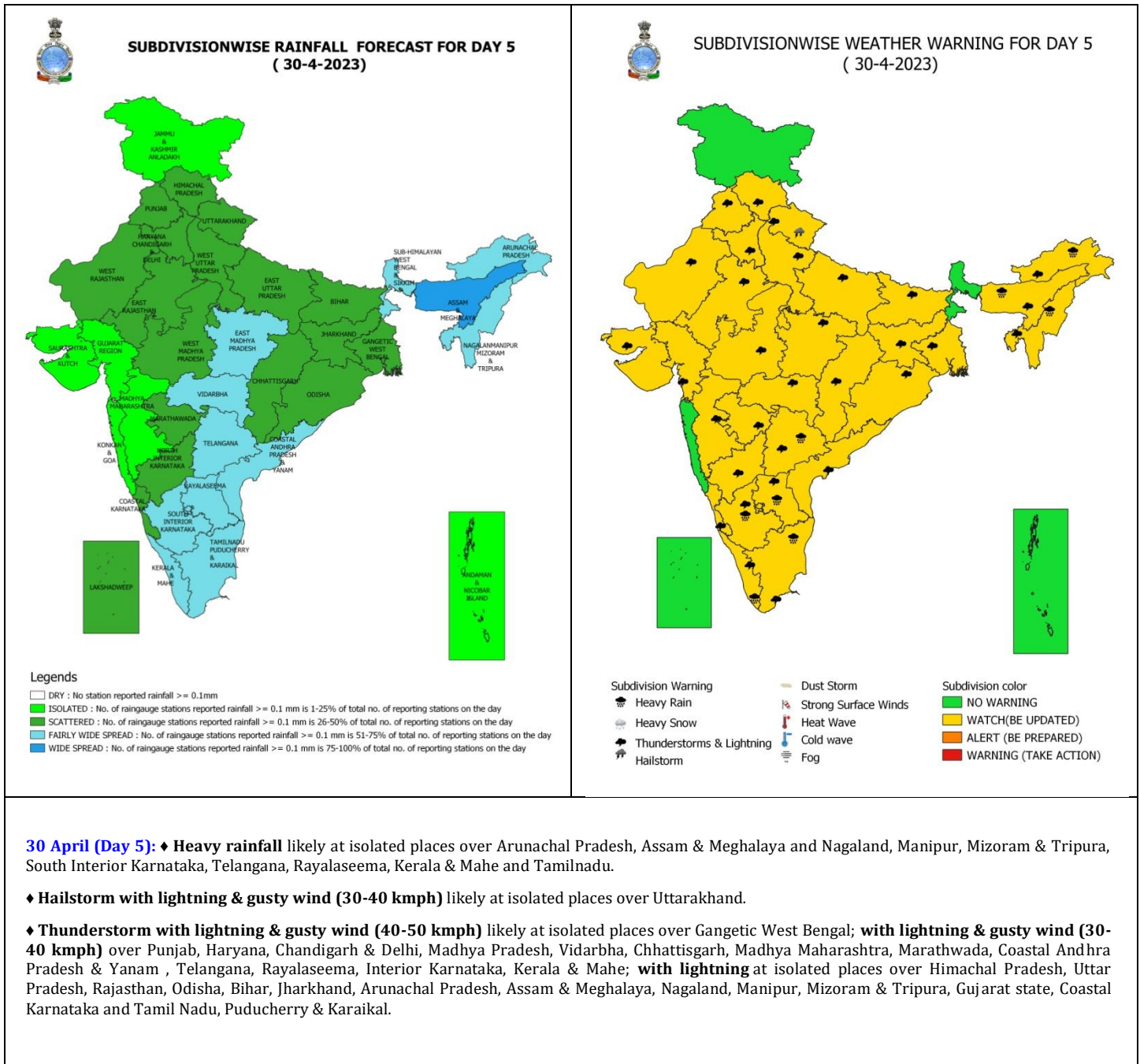
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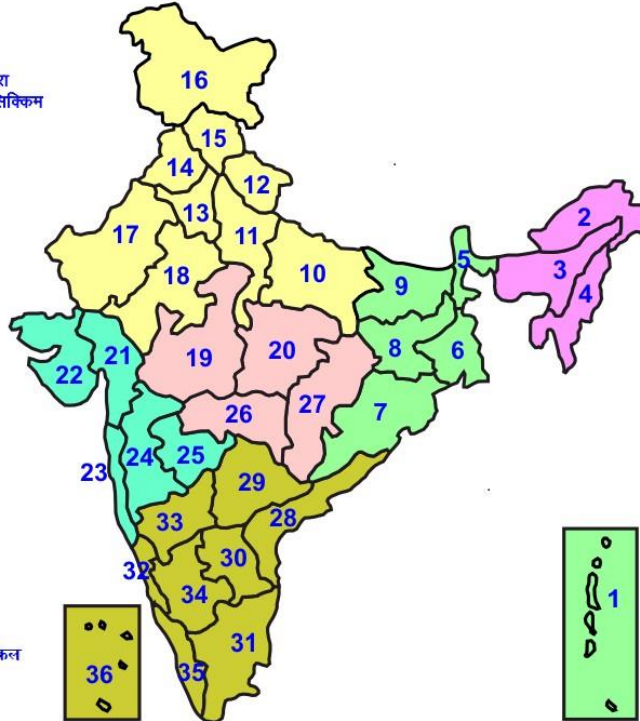
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LEGENDS

- 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 बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाड़ा
- 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 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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