



Thursday, April 06, 2023
MORNING
Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Systems, Forecast & Warning:

- A Western Disturbance as a trough in middle tropospheric westerlies runs roughly along Long. 68°E to the north of Lat. 30°N.
- The trough/wind discontinuity runs from central parts of Chhattisgarh to south Tamil Nadu in lower tropospheric levels.
- A cyclonic circulation lies over northeast Bangladesh and another over southwest Rajasthan & adjoining Pakistan in lower tropospheric levels.
- Under the influence of above synoptic features, following weather is expected:

Northwest, Central & Northeast India:

No significant weather over the region during next 5 days.

East India:

Light isolated rainfall with thunderstorm/lightning/gusty winds over Odisha during next 3 days. Isolated **hailstorm** also likely over Odisha on 07th April.

West India:

Light/moderate isolated/scattered rainfall with isolated thunderstorm/lightning over the region during next 4-5 days. Isolated **hailstorm** also likely over Madhya Maharashtra & Marathwada on 07th April.

South India:

Light/moderate isolated to scattered rainfall with isolated thunderstorm/lightning over Telangana and Kerala during next 3 days. Isolated **hailstorm** also likely over Telangana on 07th April.

Maximum Temperature Forecast:

- ◆ **Northwest & East India:** Gradual rise in Maximum Temperatures by 2-4°C very likely during next 2 days and no significant change thereafter.
- ◆ **Central India:** Gradual rise by 2-4°C in Maximum Temperatures very likely during next 2 days and fall by 2-3°C thereafter.
- ◆ **Maharashtra:** Gradual rise in Maximum Temperatures by 2-3°C during next 24 hours and fall by 2-4°C thereafter.
- ◆ **Rest parts of the Country:** No significant change in Maximum Temperatures very likely during next 5 days.

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Main Weather Observations

- ◆ **Rainfall/thundershowers observed** (from 0830 hours IST of yesterday to 1730 hours IST of yesterday): **at a few places** over Nagaland, Manipur, Mizoram & Tripura and **at isolated places** over Assam & Meghalaya, Madhya Maharashtra, Chhattisgarh, Telangana and Tamil Nadu, South Interior Karnataka.
- ◆ **Significant amount of rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday)(in cm): **Assam & Meghalaya:** Silchar -2; **NMMT:** Imphal and Lengpui -1 each.
- ◆ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, West Rajasthan, Chhattisgarh, Telangana and Madhya Maharashtra.
- ◆ **Minimum Temperature Departures (as on 05-04-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Jharkhand; at a few places over Chhattisgarh, Bihar, Gujarat State; at isolated places over East Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam. They were **appreciably below normal (-3.1°C to -5.1°C)** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand; at a few places over Haryana, Chandigarh & Delhi; at isolated places over West Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over Karnataka; at a few places over East Rajasthan, Arunachal Pradesh, Assam & Meghalaya; at isolated places over West Uttar Pradesh, Vidarbha, Gangetic West Bengal, Odisha, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 11.8°C** was reported at **Datia (West Madhya Pradesh)** over plains of the country.
- ◆ **Maximum Temperature Departures (as on 05-04-2023):** Maximum temperatures were **appreciably above normal (-3.1°C to -5.1°C)** at isolated places over Gangetic West Bengal. They were **appreciably below normal (-3.1°C to -5.1°C)** at a few places over Himachal Pradesh and Haryana, Chandigarh; at isolated places over Saurashtra & Kutch; **below normal (-1.6°C to -3.0°C)** at most places over Chhattisgarh; at many places over Uttar Pradesh, West Madhya Pradesh and East Rajasthan; at a few places over Andaman & Nicobar Islands, Punjab and East Madhya Pradesh and at isolated places over Madhya Maharashtra and Kerala & Mahe and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 40.7°C** was reported at **Gulbarga (North Interior Karnataka)** and **Anantapur (Rayalaseema)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Western Disturbance** as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 68°E to the north of Lat. 30°N.
- ◆ The **trough/wind discontinuity** from central parts of Chhattisgarh to south Tamil Nadu across Vidarbha, Telangana, interior Karnataka at 0.9 km above mean sea level persists.
- ◆ The **cyclonic circulation** over northeast Bangladesh & neighbourhood at 0.9 km above mean sea level persists.
- ◆ The **trough** from the above cyclonic circulation over northeast Bangladesh to north Odisha at 0.9 km above mean sea level persists.
- ◆ The cyclonic circulation over southwest Rajasthan & adjoining Pakistan upto 1.5 km above mean sea level persists.
- ◆ The cyclonic circulation over northern parts of central Madhya Pradesh at 0.9 above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 11th April, 2023

- ◆ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ◆ **Northwest & East India:** Gradual rise in Maximum Temperatures by 2-4°C very likely during next 2 days and no significant change thereafter.
- ◆ **Central India:** Gradual rise by 2-4°C in Maximum Temperatures very likely during next 2 days and fall by 2-3°C thereafter.
- ◆ **Maharashtra:** Gradual rise in Maximum Temperatures by 2-3°C during next 24 hours and fall by 2-4°C thereafter.
- ◆ **Rest parts of the Country:** No significant change in Maximum Temperatures very likely during next 5 days.

Weather Outlook for subsequent 2 days during 11th-13th April, 2023

- ◆ Mainly dry weather likely over most parts of the country except over parts of Gujarat and Maharashtra where isolated light rainfall is likely..



Weather Warning during next 5 days

06 April (Day 1): ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) and Hail** very likely at isolated places over Telangana; **with lightning & gusty wind (40-50 kmph)** at isolated places over Vidarbha; **with lightning & gusty wind (30-40 kmph)** at isolated places over Odisha, Chhattisgarh and Kerala & Mahe and **with lightning** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and South Interior Karnataka.

07 April (Day 2): ♦ **Thunderstorm accompanied with lightning & gusty wind (40-50 kmph) and Hail** very likely at isolated places over Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph) and Hail** at isolated places over Madhya Maharashtra, Marathwada, Telangana; **with lightning & gusty wind (40-50 kmph)** at isolated places over Vidarbha; **with lightning & gusty wind (30-40 kmph)** at isolated places over Chhattisgarh and Kerala & Mahe and **with lightning** over Gujarat State, Konkan & Goa and Karnataka.

08 April (Day 3): ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Chhattisgarh and **with lightning** over Odisha, East Rajasthan, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Telangana and Kerala & Mahe.

09 April (Day 4): ♦ **Thunderstorm accompanied with lightning** over Gangetic West Bengal, East Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha and Kerala & Mahe.

10 April (Day 5): ♦ **No Weather Warning.**

Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC websites for district wise warning.



Table-1

5 Day Rainfall Forecast						
S. No.	Subdivision	06-Apr	07-Apr	08-Apr	09-Apr	10-Apr
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLAND	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	SCT	ISOL	ISOL	ISOL	ISOL
3	ASSAM & MEGHALAYA	ISOL	ISOL	ISOL	ISOL	DRY
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	DRY	DRY	DRY	DRY
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	ISOL	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	ISOL	DRY
7	ODISHA	ISOL	SCT	ISOL	ISOL	DRY
8	JHARKHAND	DRY	DRY	DRY	ISOL	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	DRY	DRY	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	ISOL	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	DRY	DRY	DRY	DRY
16	JAMMU & KASHMIR AND LADAKH	ISOL	DRY	DRY	DRY	DRY
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	ISOL	ISOL	DRY
19	WEST MADHYA PRADESH	DRY	DRY	ISOL	ISOL	DRY
20	EAST MADHYA PRADESH	DRY	DRY	ISOL	ISOL	DRY
21	GUJARAT REGION	ISOL	ISOL	DRY	ISOL	DRY
22	SAURASHTRA & KUTCH	ISOL	ISOL	DRY	ISOL	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	DRY
24	MADHYA MAHARASHTRA	ISOL	SCT	SCT	ISOL	ISOL
25	MARATHAWADA	ISOL	SCT	SCT	ISOL	ISOL
26	VIDARBHA	ISOL	ISOL	SCT	ISOL	ISOL
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	DRY	DRY	DRY
29	TELANGANA	SCT	SCT	ISOL	ISOL	DRY
30	RAYALASEEMA	ISOL	DRY	DRY	DRY	DRY
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	ISOL	SCT	ISOL	ISOL	DRY
33	NORTH INTERIOR KARNATAKA	ISOL	SCT	ISOL	ISOL	DRY
34	SOUTH INTERIOR KARNATAKA	ISOL	SCT	ISOL	ISOL	ISOL
35	KERALA & MAHE	SCT	SCT	ISOL	ISOL	ISOL
36	LAKSHADWEEP	SCT	SCT	DRY	DRY	DRY
% Stations	Category					
76-100	WS - Widespread/ Most Places					
51-75	FWS - Fairly Widespread/ Many Places					
26-50	SCT - Scattered/ A Few Places					
<26	ISOL - Isolated Places					
No Rain	DRY					

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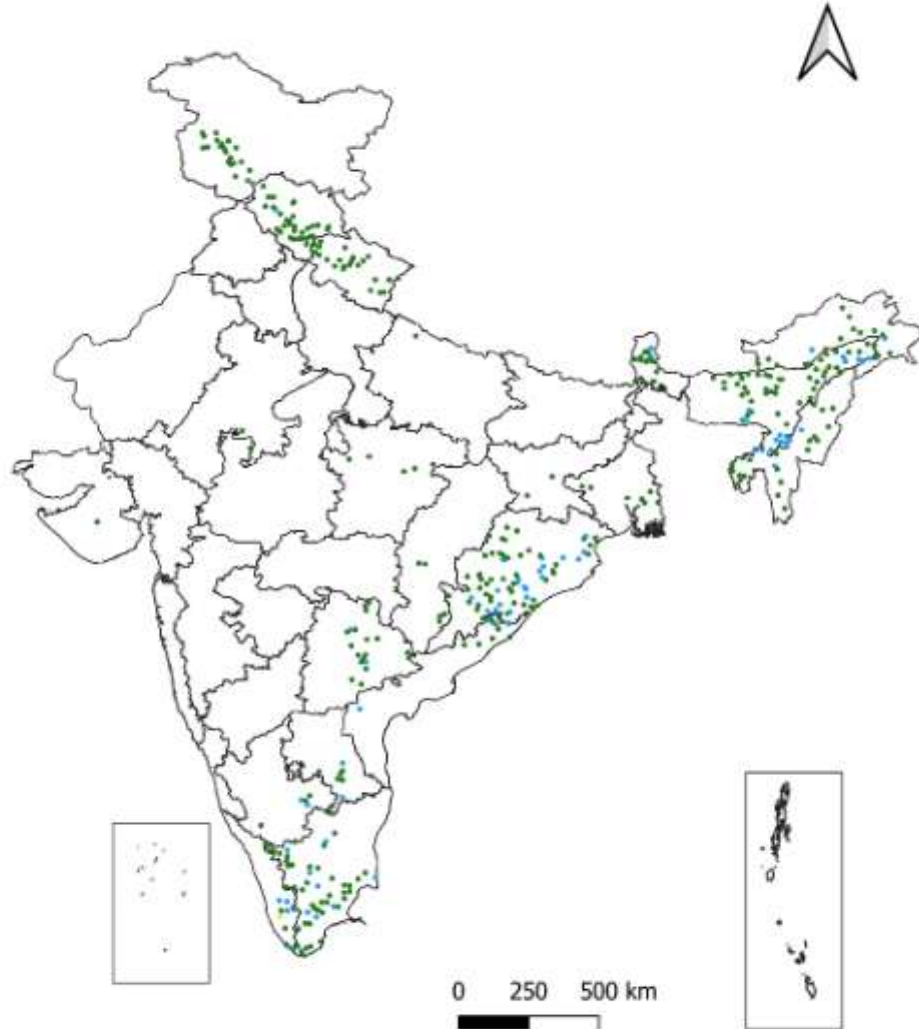
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations
during 0830 IST of 4-4-2023 to 0830 IST of 5-4-2023



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 Temperature Dated 05.04.2023

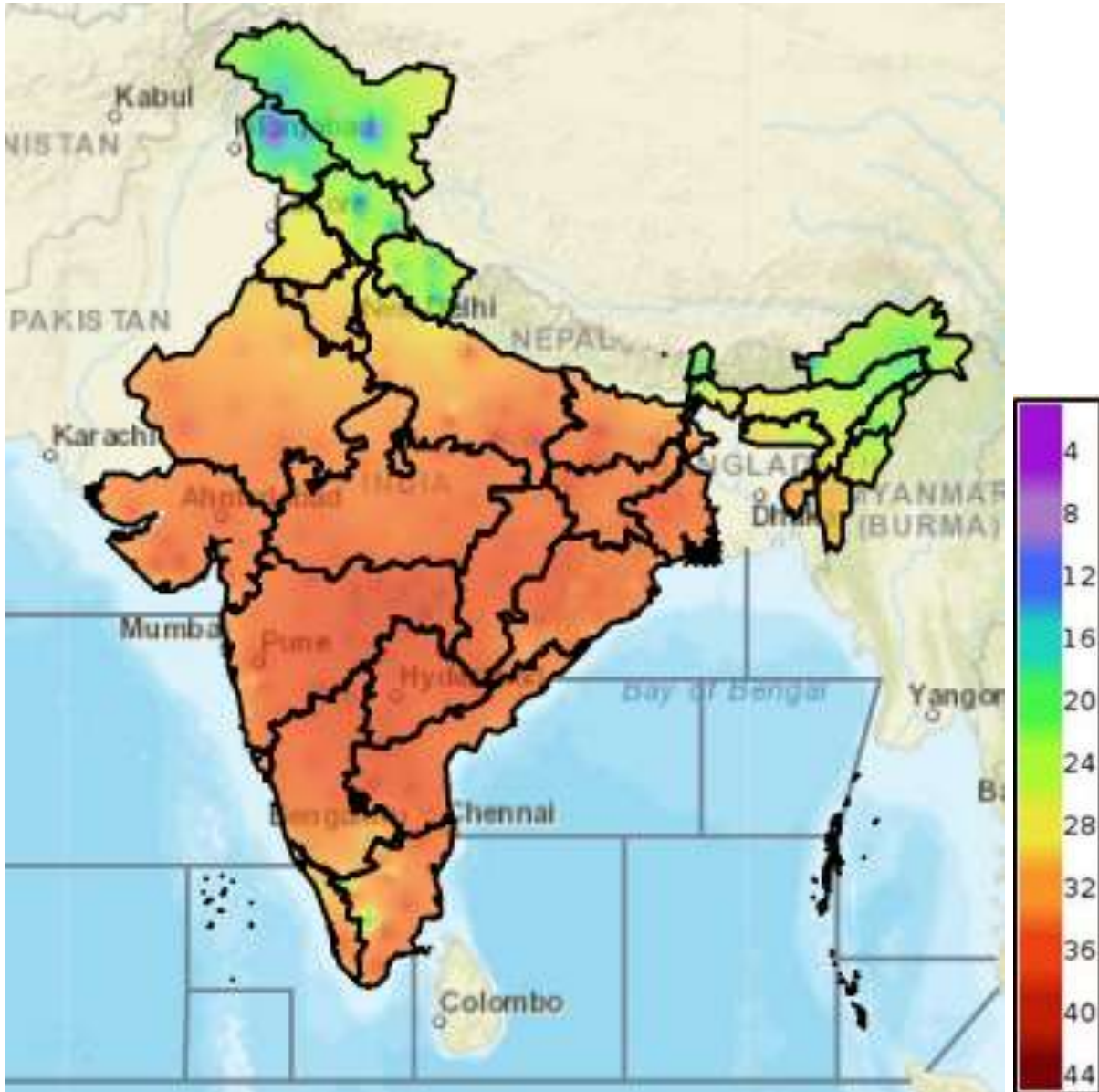
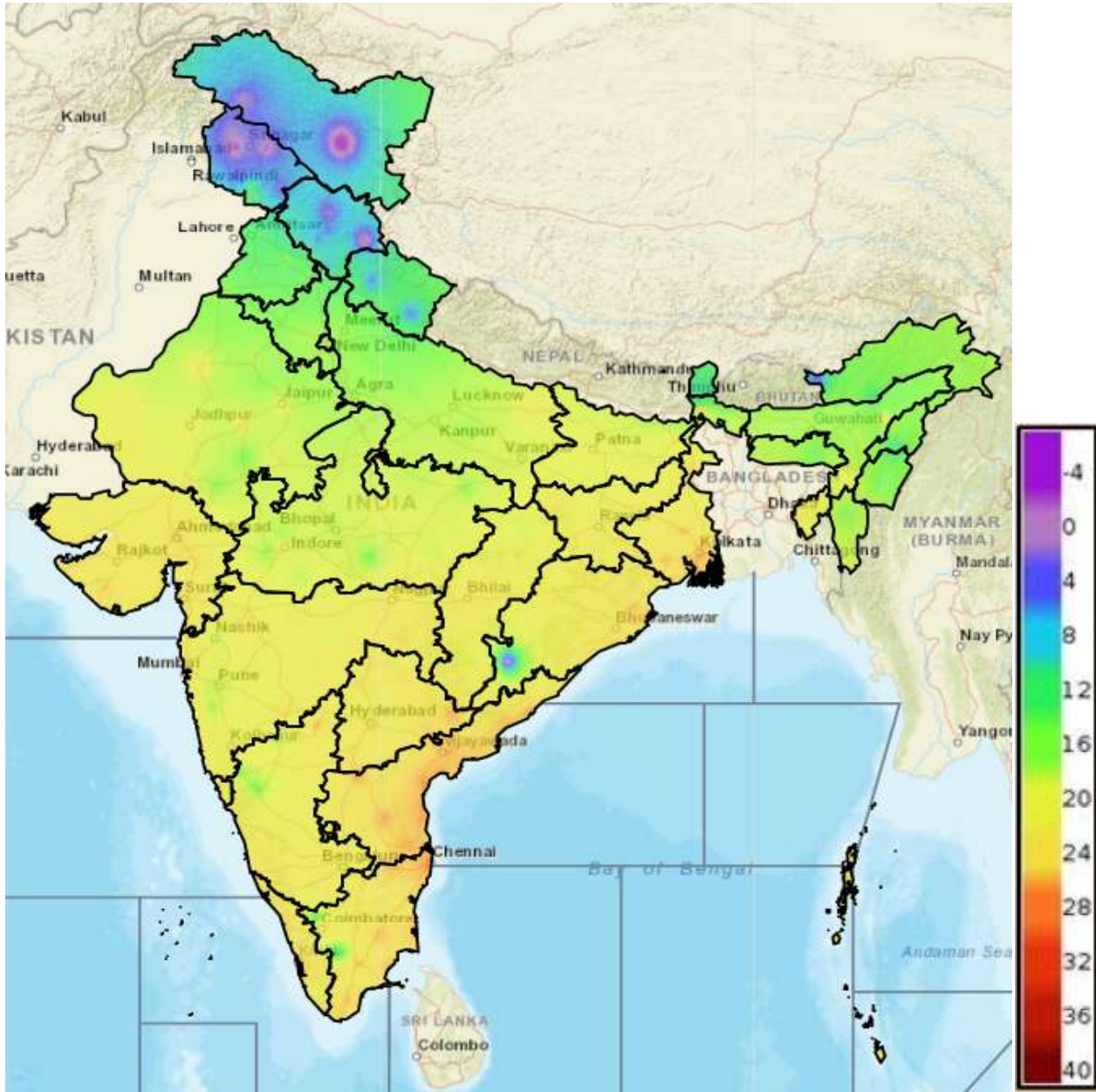




Fig. 3: Minimum Temperatures Dated 05.04.2023



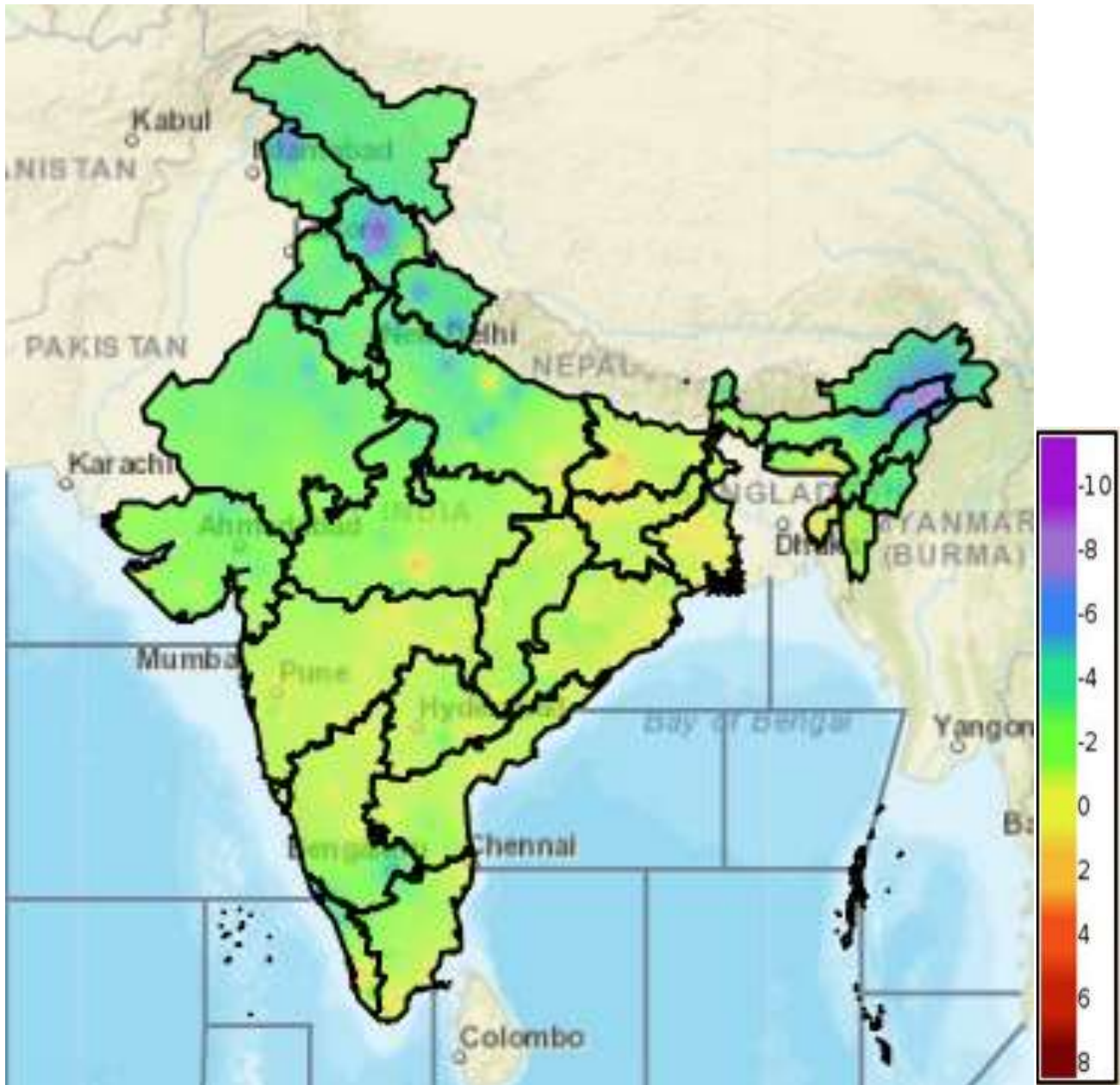
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Fig. 4: Departure from Normal of Maximum Temperatures Dated 05.04.2023



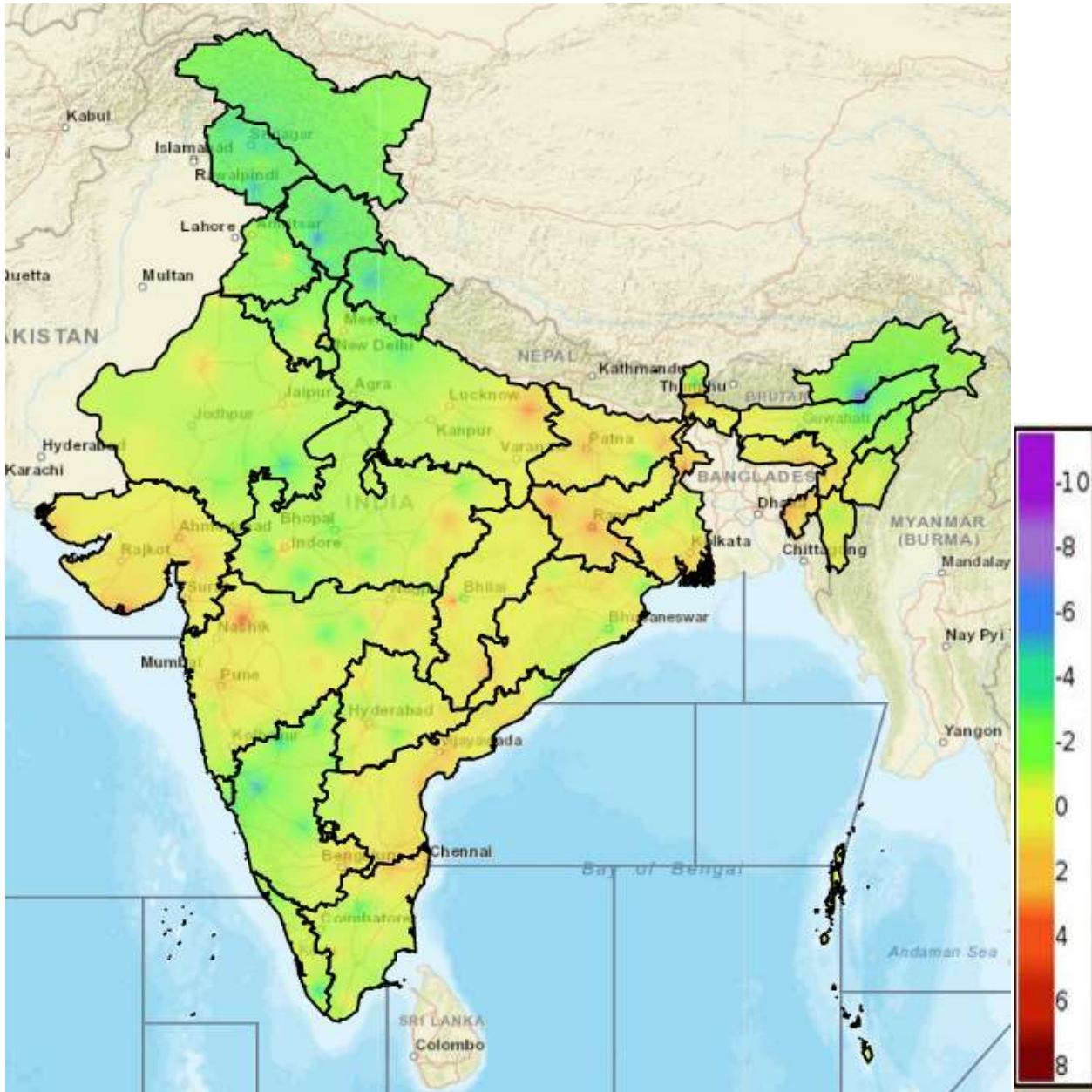
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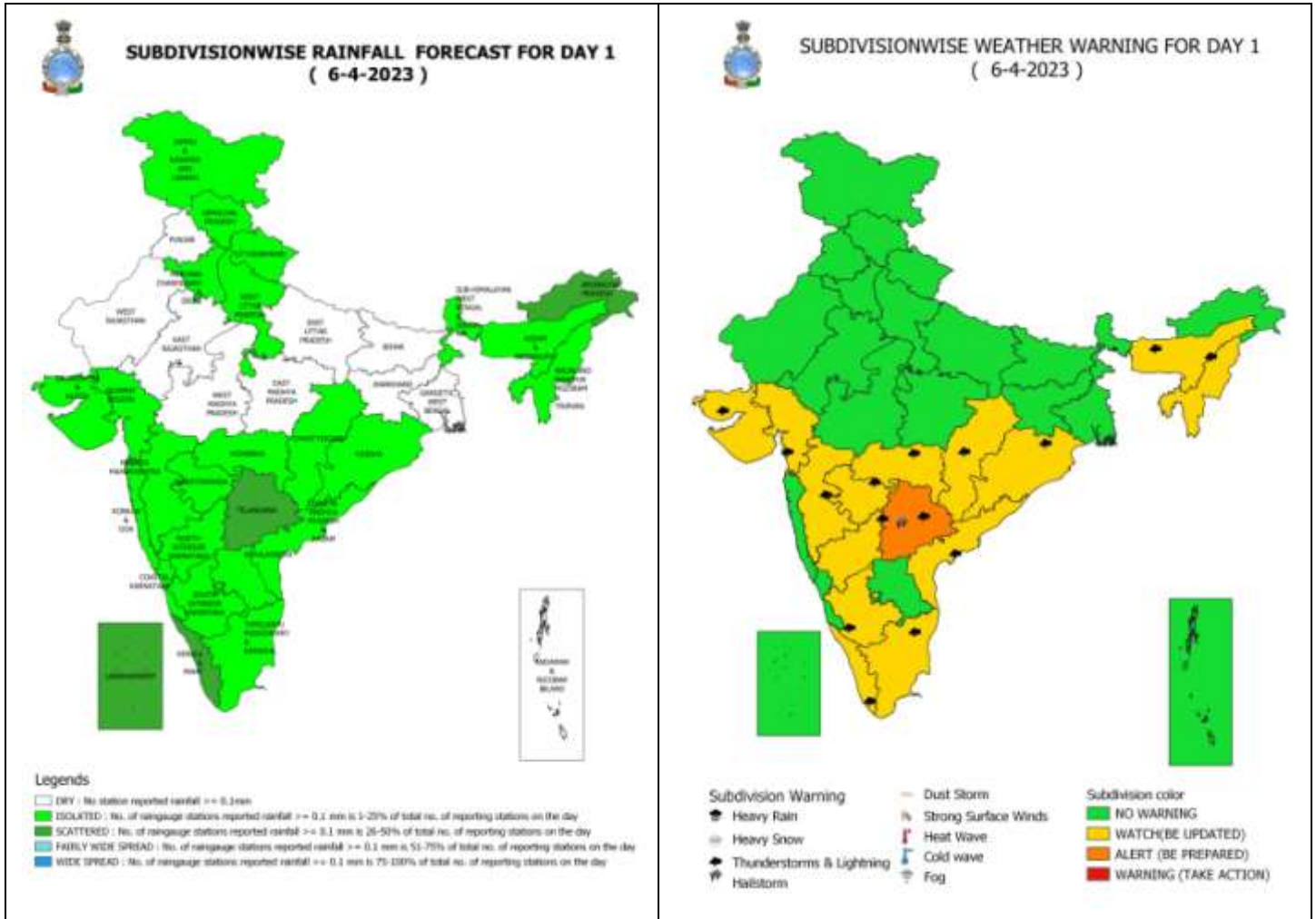
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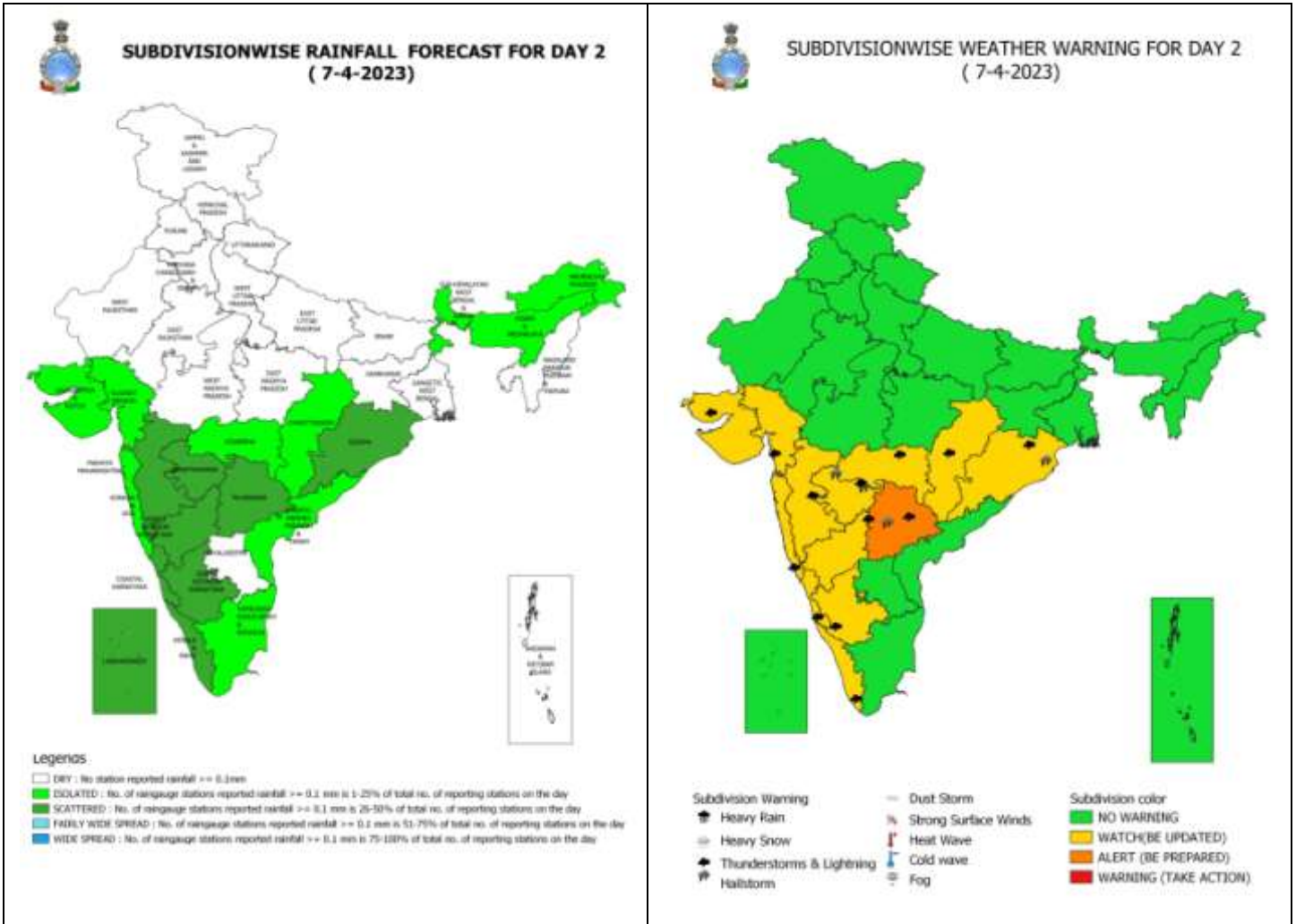


Fig. 5: Departure from Normal of Minimum Temperatures Dated 05.04.2023

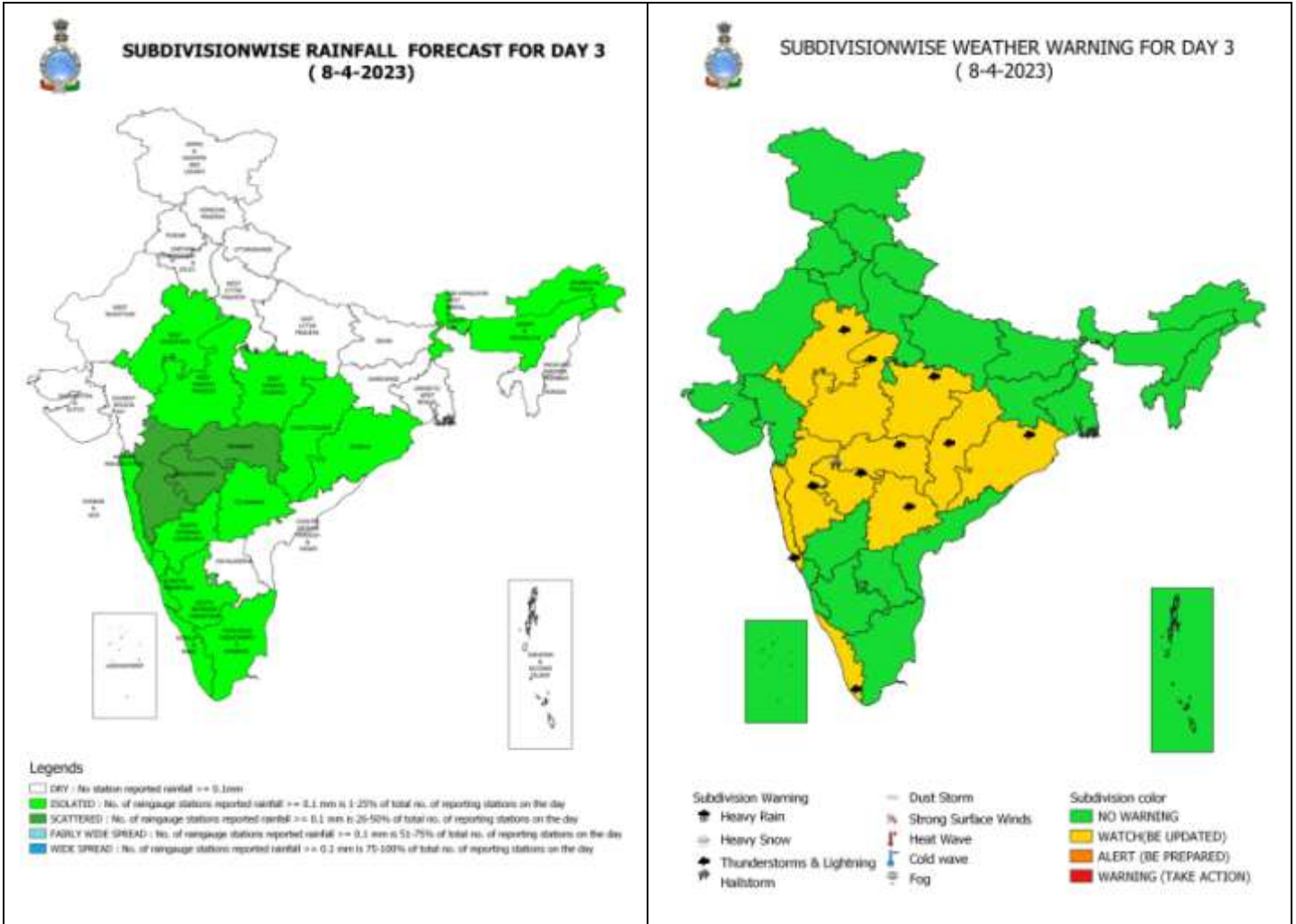




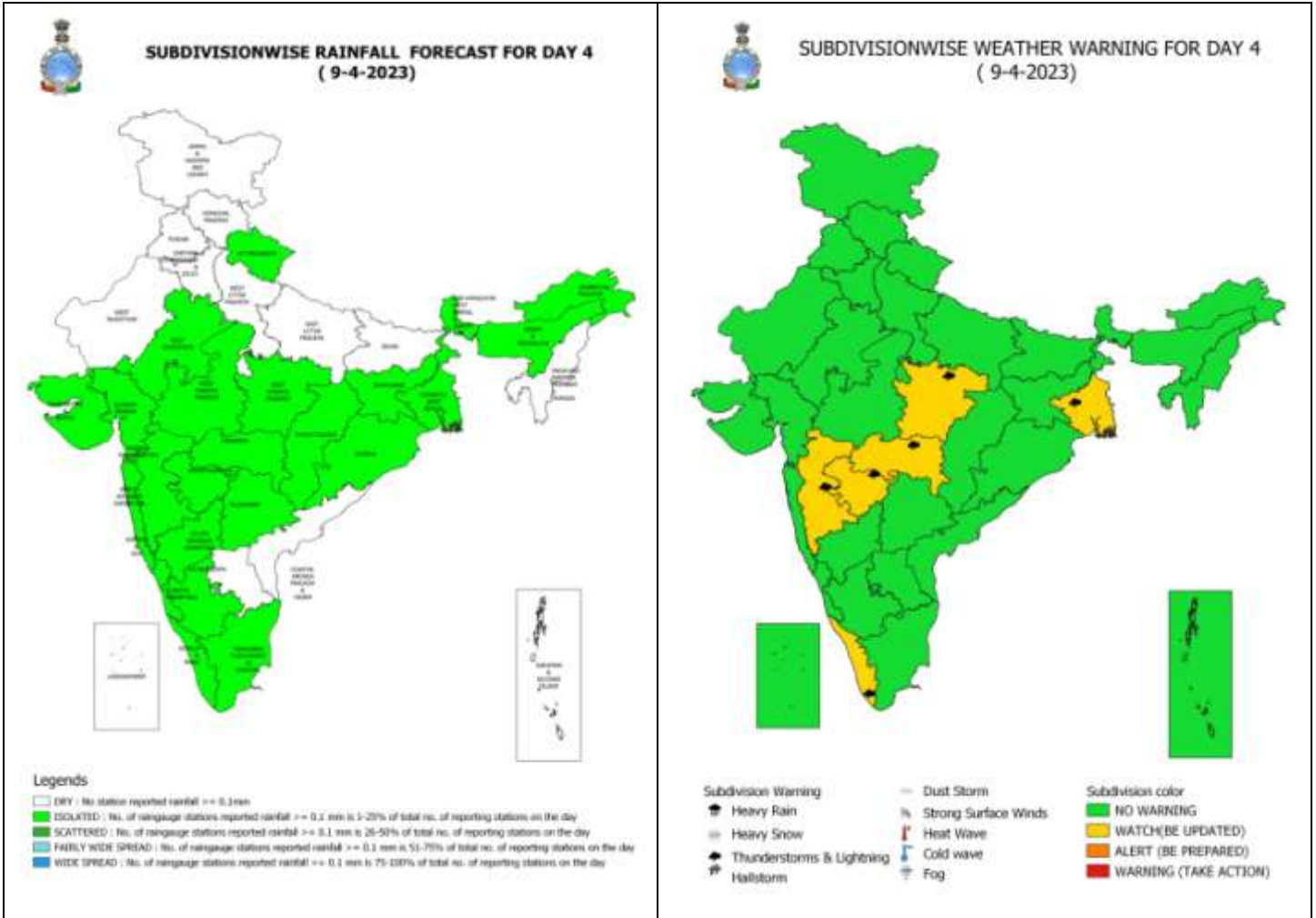
06 April (Day 1): ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) and Hail** very likely at isolated places over Telangana; **with lightning & gusty wind (40-50 kmph)** at isolated places over Vidarbha; **with lightning & gusty wind (30-40 kmph)** at isolated places over Odisha, Chhattisgarh and Kerala & Mahe and **with lightning** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and South Interior Karnataka.



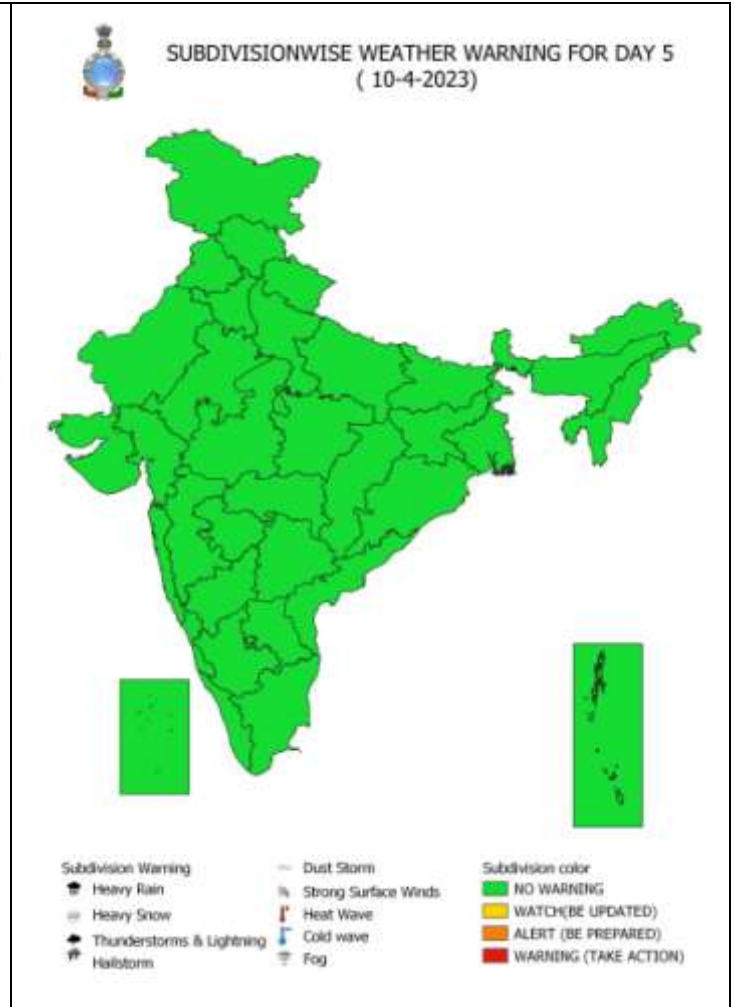
07 April (Day 2): ♦ **Thunderstorm accompanied with lightning & gusty wind (40-50 kmph) and Hail** very likely at isolated places over Gangetic West Bengal; **with lightning & gusty wind (30-40 kmph) and Hail** at isolated places over Madhya Maharashtra, Marathwada, Telangana; **with lightning & gusty wind (40-50 kmph)** at isolated places over Vidarbha; **with lightning & gusty wind (30-40 kmph)** at isolated places over Chhattisgarh and Kerala & Mahe and **with lightning** over Gujarat State, Konkan & Goa and Karnataka.



08 April (Day 3): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) likely at isolated places over Chhattisgarh and with lightning over Odisha, East Rajasthan, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Telangana and Kerala & Mahe.



09 April (Day 4): ♦ Thunderstorm accompanied with lightning over Gangetic West Bengal, East Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha and Kerala & Mahe.



10 April (Day 5): ♦ No Weather Warning.

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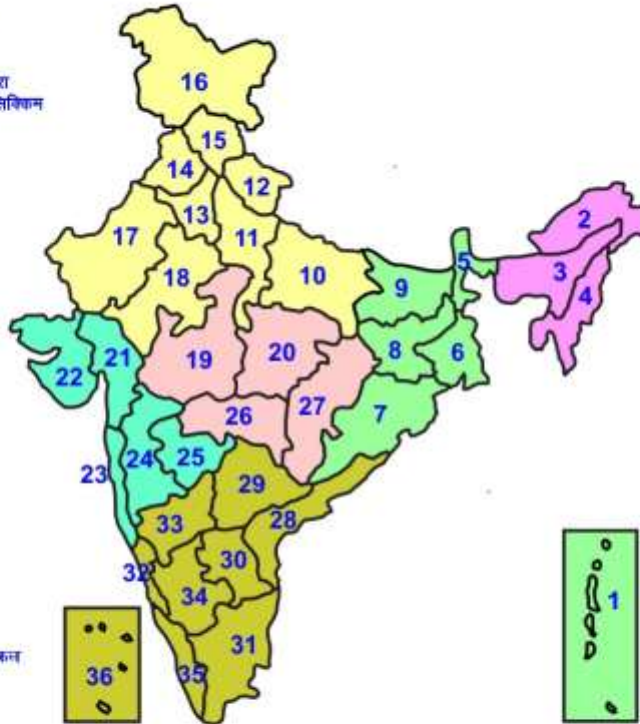
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीज़ोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगीय 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 एवंम ज्वालामुखी
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं बंगम
- 29 तेलंगाना
- 30 रायलसेमा
- 31 तमिलनाडु, पुदुचेरी एवंम 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 & Karalkal
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)

* 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