



Tuesday, May 02, 2023
Time of Issue: 0830 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 Haryana in middle tropospheric levels.
- ❖ Another Western Disturbance as a cyclonic circulation lies over south Pakistan in middle tropospheric levels.
- ❖ An Induced Cyclonic Circulation lies over northwest Rajasthan in lower tropospheric levels.
- ❖ A trough/wind discontinuity runs from west Vidarbha to South Interior Karnataka in lower tropospheric levels.

Forecast and warning for next 5 days

Northwest India:

- ❖ Light to moderate fairly widespread to widespread rainfall/snowfall with **thunderstorm/lightning/gusty winds (wind speed 30-50 kmph)** very likely over Northwest India during next 24 hours and gradually reduction thereafter.
- ❖ **Hailstorm** activity very likely at isolated places over Uttarakhand during next 4 days; over Punjab, Haryana, Chandigarh & Delhi, Himachal Pradesh & Uttar Pradesh on 02nd May.
- ❖ **Thundersquall (wind speed 50-60 kmph)** very likely over Uttarakhand on 02nd & 03rd May.
- ❖ **Heavy rainfall** very likely at isolated places over Jammu division, Himachal Pradesh & Uttarakhand on 02nd May; over Punjab on 02nd May.
- ❖ **Duststorm** very likely at isolated places over West Rajasthan on 04th May.

Central India:

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over the region during next 2 days and reduction thereafter.
- ❖ **Hailstorm** very likely at isolated places over East Madhya Pradesh on 02nd May.

East India:

- ❖ Light/moderate scattered to fairly widespread **rainfall** with thunderstorm/lightning/gusty winds very likely over the region during next 2 days and gradual reduction thereafter.
- ❖ **Hailstorm** very likely at isolated places over Gangetic West Bengal on 02nd & 03rd May.
- ❖ **Heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim on 02nd May.

South India:

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over the region during next 4 days.
- ❖ **Heavy rainfall** over South Interior Karnataka, Coastal Andhra Pradesh, Telangana, Rayalaseema, Kerala & Tamil Nadu on 02nd & 03rd May.
- ❖ **Hailstorm** very likely at isolated places over Telangana on 02nd May.

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** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya during 02nd -04th May.

West India:

- ❖ Light isolated rainfall with thunderstorm/lightning very likely over the region during next 5 days.
- ❖ **Hailstorm** activity very likely at isolated places over Marathawada on 02nd May.

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Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Uttarakhand; **at many places** over Himachal Pradesh, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal; **at a few places** over Punjab, Uttar Pradesh, Gangetic West Bengal, Odisha, Kerala & Mahe, Lakshadweep; **at isolated places** over Rajasthan, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Saurashtra & Kutch, Vidarbha, Telangana and Rayalaseema.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday)(in cm): **Tamil Nadu:** Valprai-8, Palayankottai-5; **Coastal Andhra Pradesh:** Kakinada-4, Tuni & Vishakhapatnam-2 each; **Kerala:** Punalur-5; **Rayalaseema:** Tirupathi-3; **Jammu & Kashmir:** Katra-3; **Delhi:** Ridge-2; **East Rajasthan:** Ajmer-4; **East Uttar Pradesh:** Sultanpur-3, Prayagraj-2; **East Madhya Pradesh:** Satna-2.
- ❖ **Heavy rainfall occurred** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Tamil Nadu.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Madhya Pradesh, Saurashtra & Kutch, Odisha, Mizoram, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Kerala.
- ❖ **Hailstorm Observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over East Uttar Pradesh, Coastal Andhra Pradesh and Tamil Nadu.
- ❖ **Minimum Temperature Departures (as on 01-05-2023):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Nagaland, Manipur, Mizoram & Tripura; **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 and East Rajasthan; at many places over West Uttar Pradesh, Madhya Pradesh and Telangana; at a few places over Marathwada, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Rayalaseema; at isolated places over Odisha; **appreciably below normal (-3.1°C to -5.0°C)** at most places over West Rajasthan; at many places over Haryana, Chandigarh & Delhi, Bihar, Gangetic West Bengal and Lakshadweep; at a few places over East Uttar Pradesh; at isolated places over Saurashtra & Kutch; **below normal (-1.6°C to -3.0°C)** at most places over Jharkhand; at many places over Uttarakhand, Punjab, Madhya Maharashtra and Karnataka; at a few places over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Assam & Meghalaya and **near normal** over rest parts of the country. Yesterday, the **lowest minimum temperature of 16.0°C** was reported at **Guna (West Madhya Pradesh)**.
- ❖ **Maximum Temperature Departures (as on 01-05-2023):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. They were **markedly below normal (-5.1°C or less)** at most places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Vidarbha, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana; at many places over Odisha and Gujarat Region; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Gangetic West Bengal and Saurashtra & Kutch; at isolated places over Arunachal Pradesh, Madhya Maharashtra and Rayalaseema; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at most places over North Interior Karnataka; at a few places over Sub-Himalayan West Bengal & Sikkim and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 37.2°C** was reported at **Tiruppattur (Tamil Nadu)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Western Disturbance as a **cyclonic circulation** over Haryana & neighbourhood between 3.1 km & 7.6 km above mean sea level persists.
- ❖ The Western Disturbance as a cyclonic circulation over south Pakistan & neighbourhood between 3.1 & 5.8 km above mean sea level persists.
- ❖ The induced cyclonic circulation over northwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The **trough/wind discontinuity** from west Vidarbha to South Interior Karnataka across Marathwada and North Interior Karnataka extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over east Bangladesh & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over Maldives area at 0.9 km above mean sea level persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 06th 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:** No significant change in maximum temperatures very likely during next 3 days and rise by 3-5°C thereafter.
- ❖ **Central India:** No significant change in maximum temperatures very likely during next 2 days and rise by 3-5°C thereafter.
- ❖ **East India:** Fall by 2-3°C during next 3 days and rise by 2-3°C thereafter.
- ❖ **Maharashtra:** No significant change in maximum temperatures very likely during next 24 hours and rise by 2-3°C thereafter.
- ❖ **Gujarat state:** Gradual rise by 2-4°C in maximum temperatures very likely 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 5 days.**

Weather Outlook for subsequent 2 days (During 06th-08th May, 2023)

- ❖ Scattered to fairly widespread light/moderate rainfall likely to continue over northeast India and parts of Northwest India. Isolated light rainfall likely along east coast and over south peninsular India. Dry weather over rest parts of the country.

Weather Warning during next 5 days

02 May (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Punjab, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Heavy rainfall/snowfall** very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand.

♦ **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 Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; **with lightning & gusty wind (30-40 kmph)** at isolated places over East Madhya Pradesh and Telangana and **with lightning** at isolated places over Marathwada.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Vidarbha and Chhattisgarh and Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning & gusty wind (30-40 kmph)** at isolated places over West Madhya Pradesh, West Bengal & Sikkim, Jharkhand, East Uttar Pradesh, Assam & Meghalaya; **with lightning** at isolated places over Himachal Pradesh, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat, Madhya Maharashtra, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

03 May (Day 2): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Hailstorm with lightning & gusty wind (40-50 kmph)** likely at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Gangetic West Bengal.

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

04 May (Day 3): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

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

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

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

05 May (Day 4): ♦ **Hailstorm with lightning & gusty winds (30-40 kmph)** likely at isolated places over Uttarakhand.

♦ **Thunderstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Rajasthan, Madhya Pradesh; **with lightning** at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Gujarat Region, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe.

06 May (Day 5): ♦ **Thunderstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Uttarakhand, Rajasthan, West Madhya Pradesh; **with lightning** at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chhattisgarh, Arunachal Pradesh, Gujarat Region, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka.

Table-1

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5 Day Rainfall Forecast

S. No.	Subdivision	02-May	03-May	04-May	05-May	06-May
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	WS	WS	WS	FWS	FWS
3	ASSAM & MEGHALAYA	FWS	WS	WS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	FWS	FWS	FWS	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	FWS	ISOL
6	GANGETIC WEST BENGAL	SCT	FWS	SCT	ISOL	DRY
7	ODISHA	SCT	SCT	SCT	SCT	SCT
8	JHARKHAND	FWS	ISOL	ISOL	ISOL	DRY
9	BIHAR	FWS	SCT	ISOL	ISOL	DRY
10	EAST UTTAR PRADESH	FWS	FWS	SCT	ISOL	DRY
11	WEST UTTAR PRADESH	FWS	FWS	SCT	ISOL	ISOL
12	UTTARAKHAND	WS	WS	FWS	ISOL	SCT
13	HARYANA CHANDIGARH & DELHI	WS	FWS	SCT	ISOL	ISOL
14	PUNJAB	WS	FWS	ISOL	ISOL	SCT
15	HIMACHAL PRADESH	WS	WS	SCT	ISOL	SCT
16	JAMMU & KASHMIR AND LADAKH	WS	FWS	ISOL	ISOL	FWS
17	WEST RAJASTHAN	SCT	SCT	SCT	ISOL	SCT
18	EAST RAJASTHAN	SCT	SCT	SCT	ISOL	SCT
19	WEST MADHYA PRADESH	SCT	SCT	SCT	SCT	SCT
20	EAST MADHYA PRADESH	SCT	SCT	ISOL	ISOL	DRY
21	GUJARAT REGION	ISOL	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	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	FWS	SCT	SCT	ISOL	ISOL
27	CHHATTISGARH	SCT	SCT	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	FWS	FWS	SCT	SCT	FWS
29	TELANGANA	FWS	FWS	SCT	SCT	SCT
30	RAYALASEEMA	FWS	FWS	SCT	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	WS	FWS	SCT	SCT	SCT
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	DRY
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	FWS	SCT	SCT	ISOL	ISOL
35	KERALA & MAHE	WS	FWS	SCT	SCT	ISOL
36	LAKSHADWEEP	FWS	SCT	SCT	DRY	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

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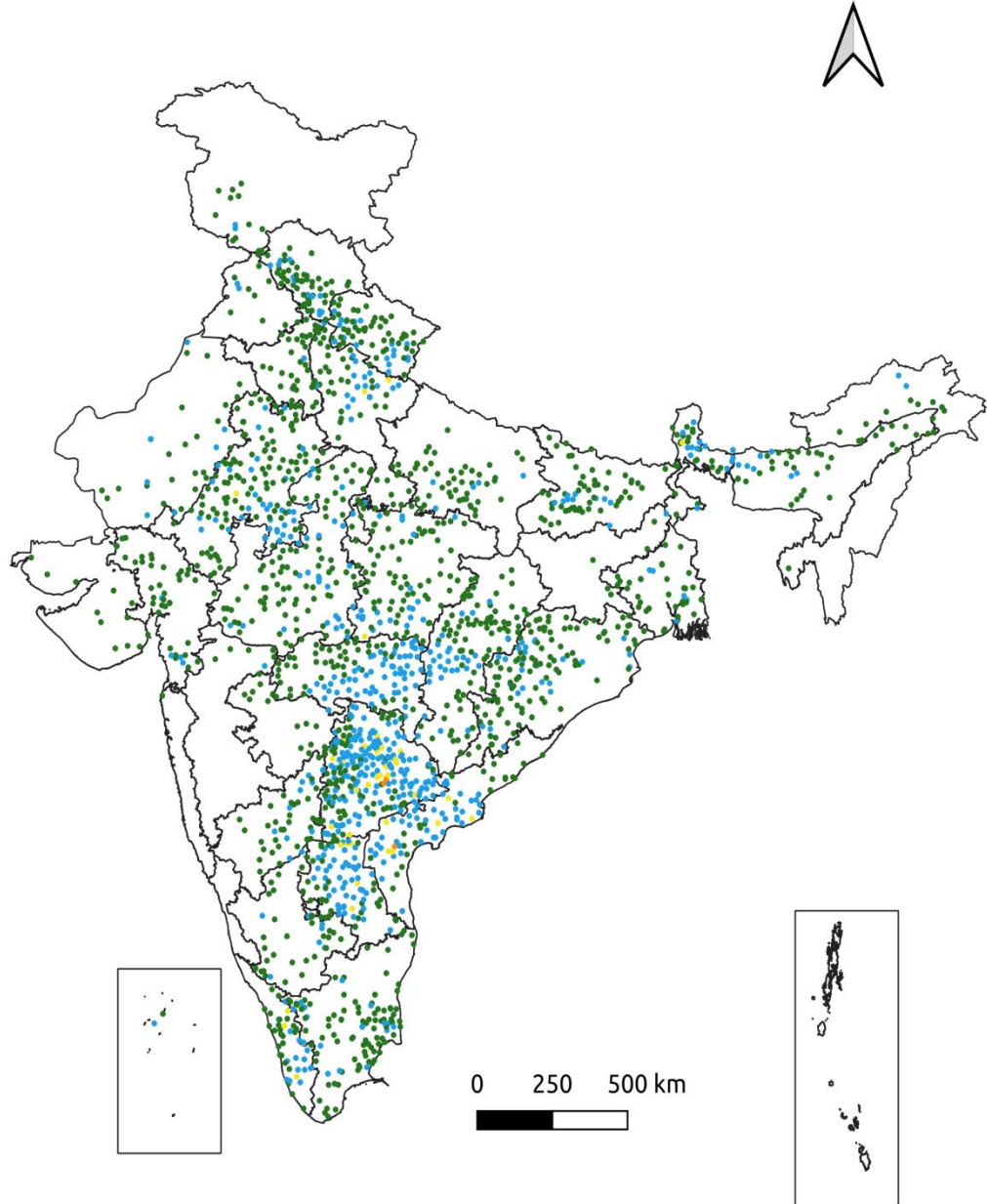
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations
during 0830 IST of 30-4-2023 to 0830 IST of 1-5-2023



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 01.05.2023

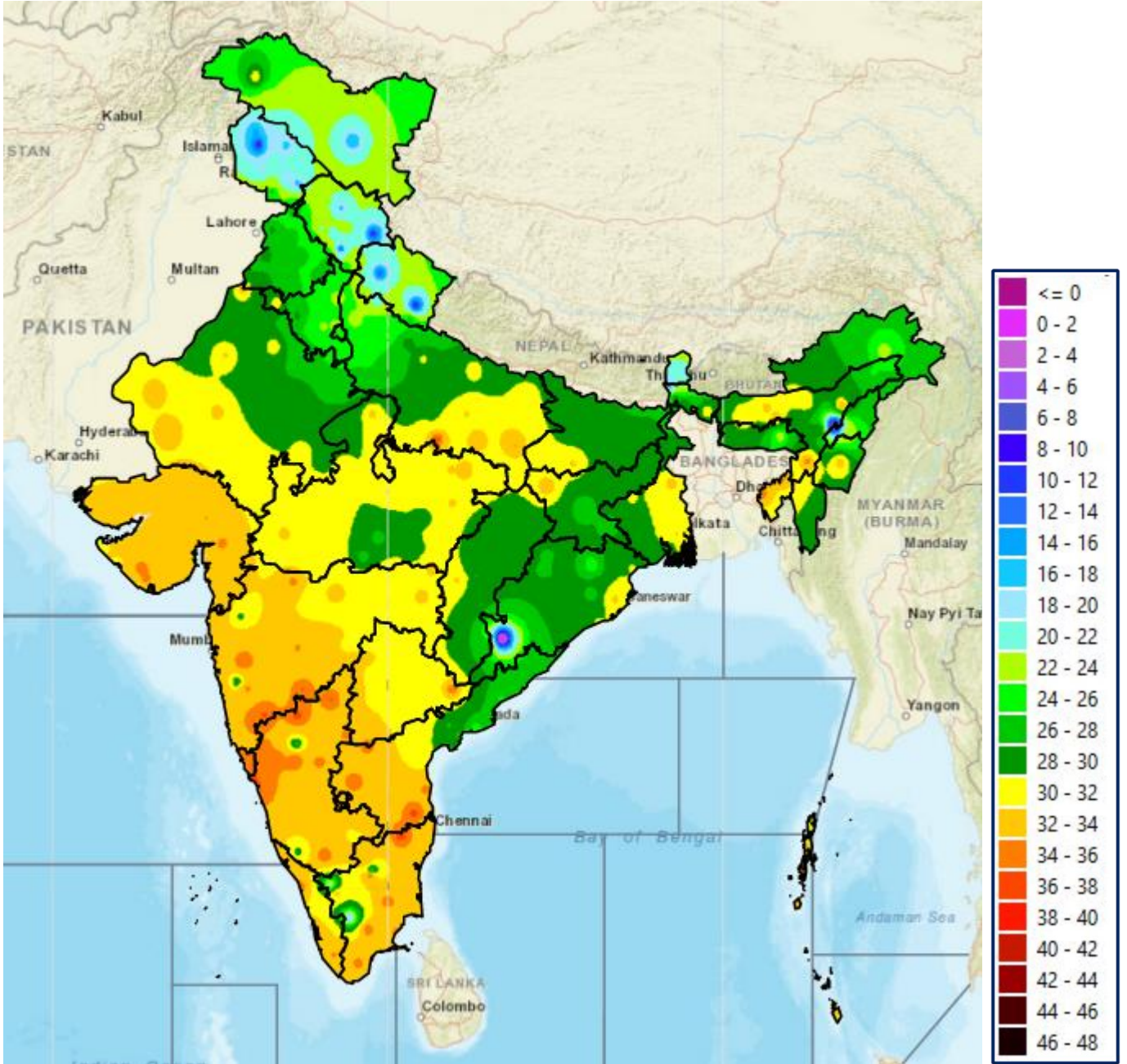


Fig. 3: Minimum Temperatures Dated 01.05.2023

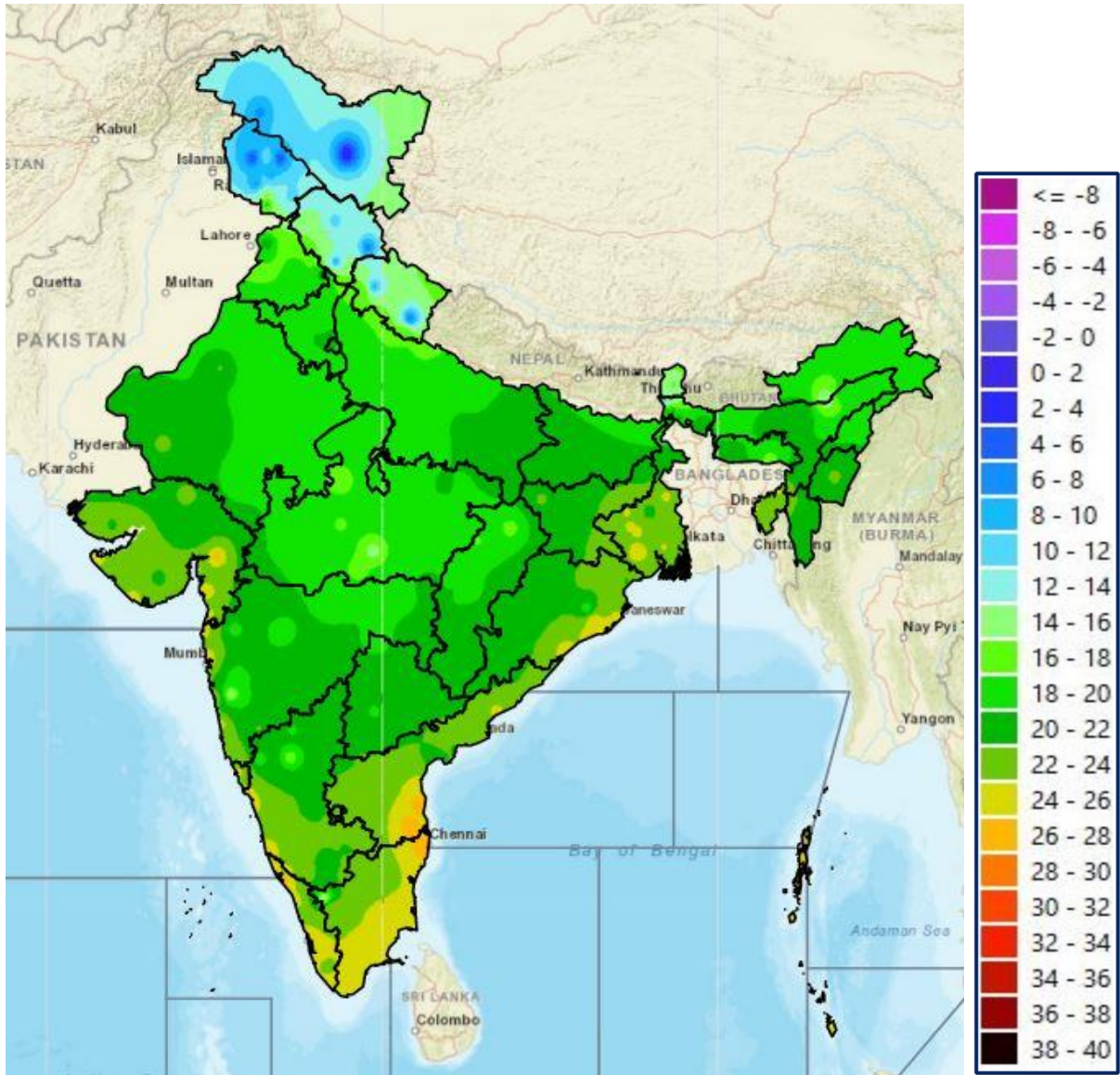
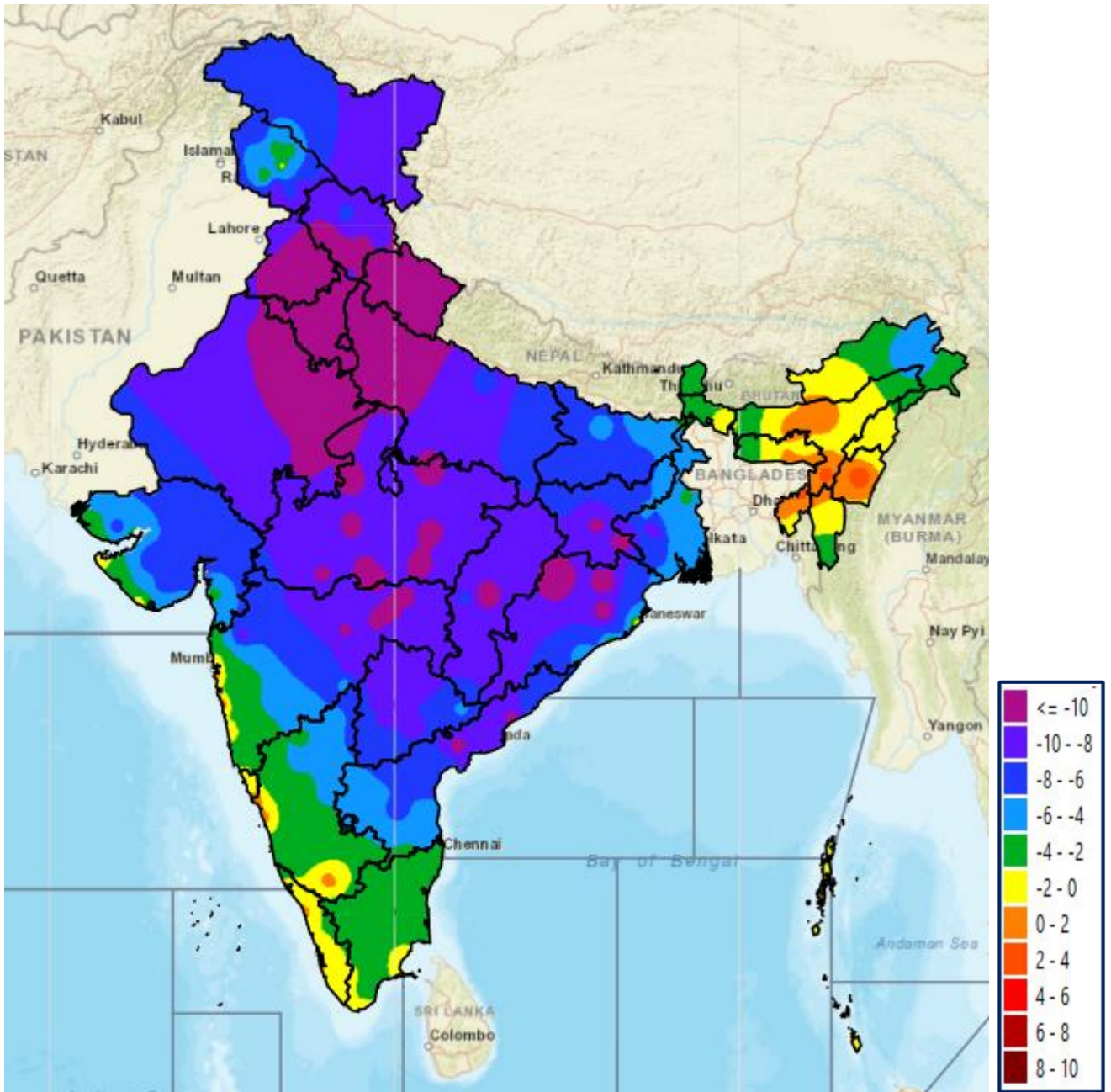


Fig. 4: Departure from Normal of Maximum Temperatures Dated 01.05.2023

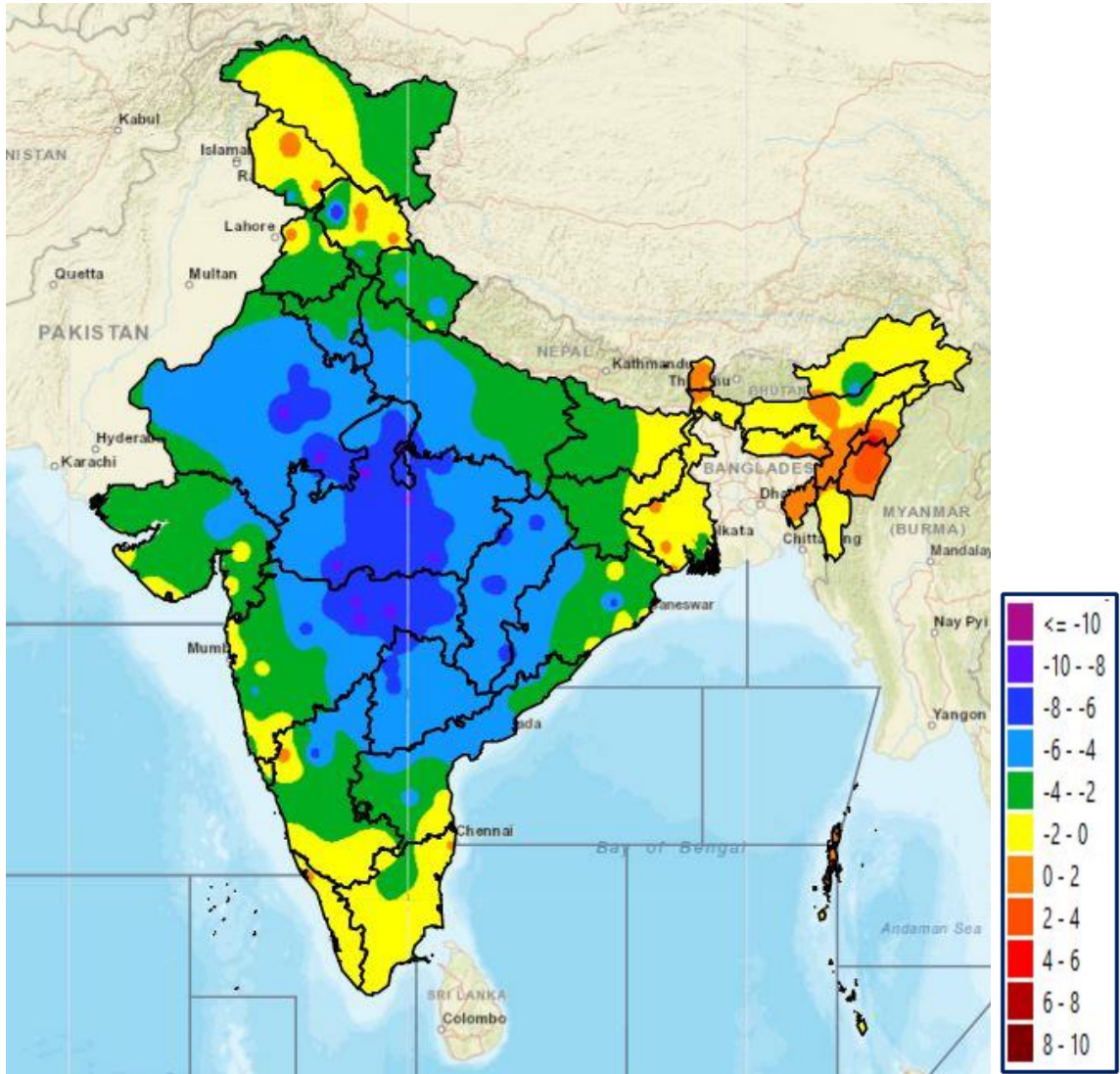


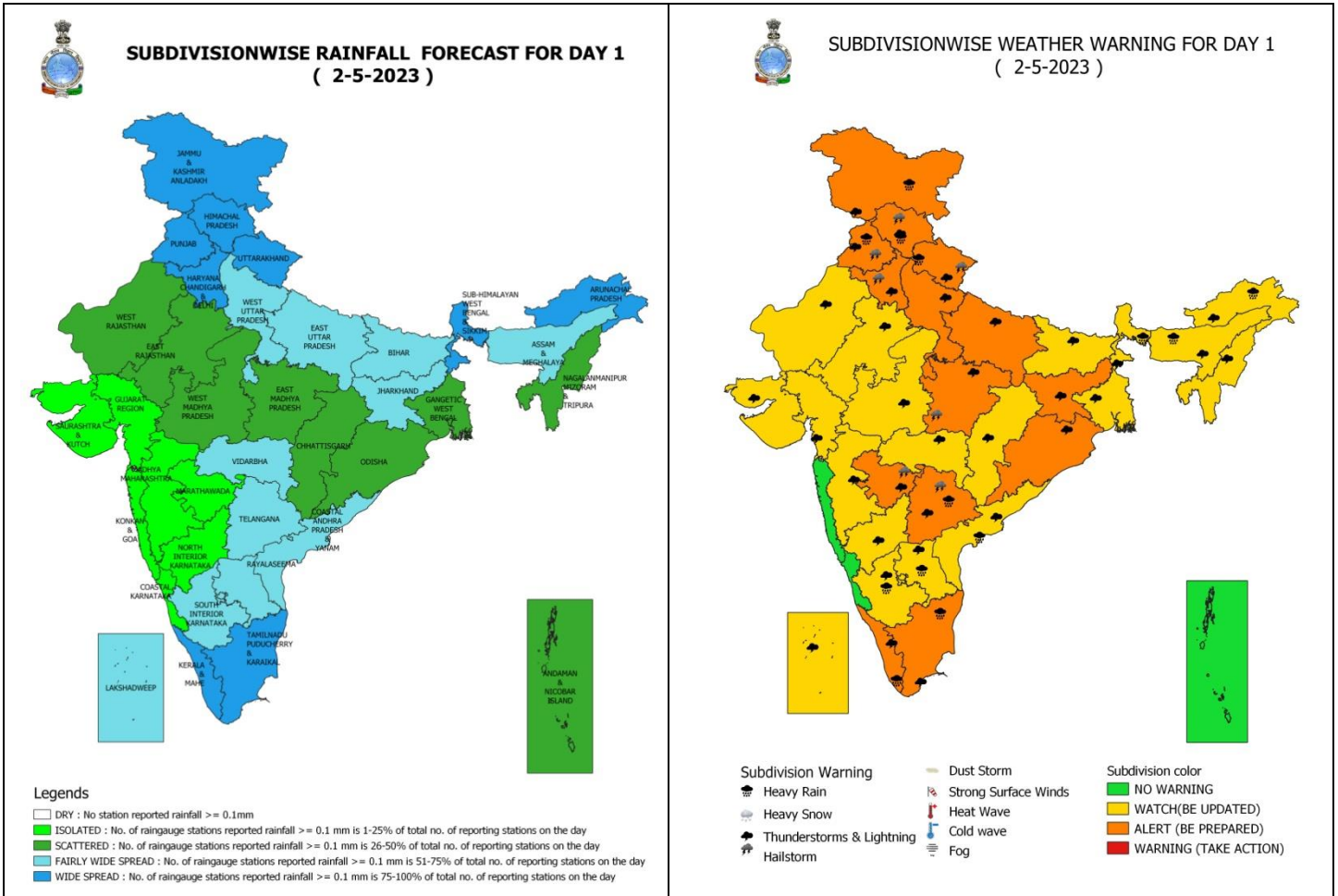
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Fig. 5: Departure from Normal of Minimum Temperatures Dated 01.05.2023





02 May (Day 1): ♦ Heavy rainfall very likely at isolated places over Punjab, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Heavy rainfall/snowfall** very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand.

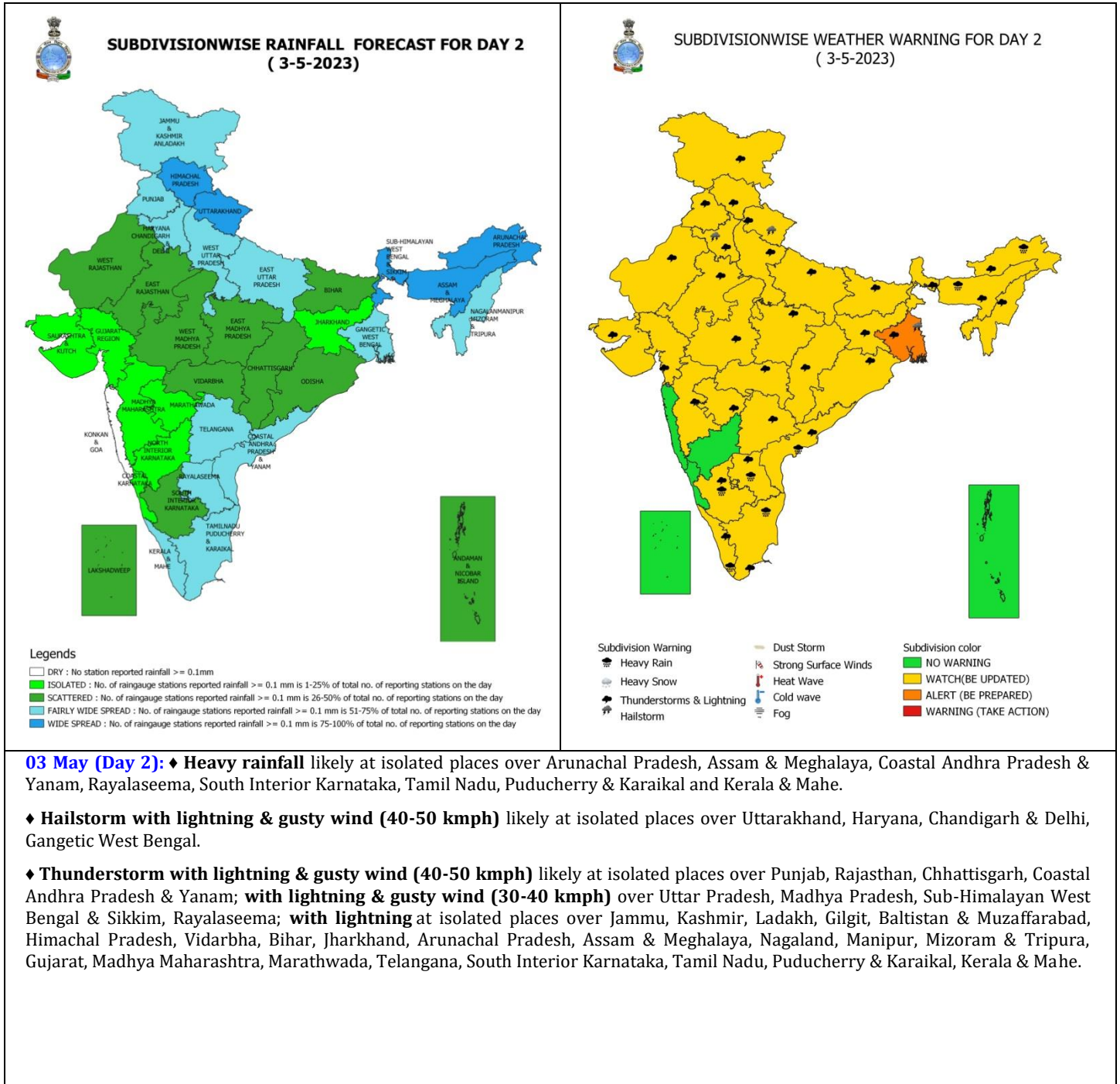
♦ **Hailstorm with lightning & squall (50-60 kmph)** very likely at isolated places over Uttarakhand; **with lightning & gusty wind (40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; **with lightning & gusty wind (30-40 kmph)** at isolated places over East Madhya Pradesh and Telangana and **with lightning** at isolated places over Marathwada.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Vidarbha and Chhattisgarh and Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning & gusty wind (30-40 kmph)** at isolated places over West Madhya Pradesh, West Bengal & Sikkim, Jharkhand, East Uttar Pradesh, Assam & Meghalaya; **with lightning** at isolated places over Himachal Pradesh, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat, Madhya Maharashtra, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

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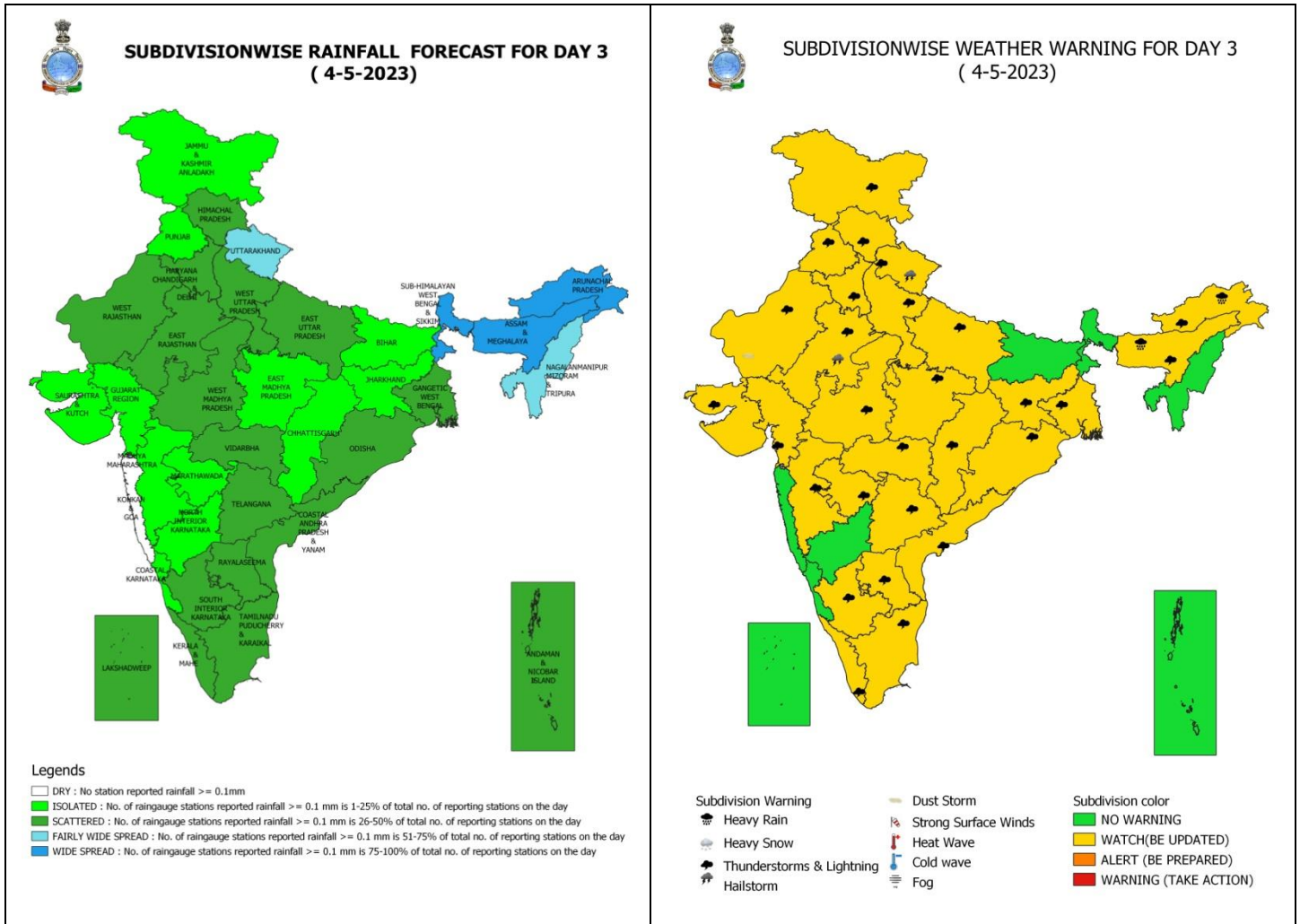
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04 May (Day 3): ♦ Heavy rainfall likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

♦ Hailstorm with lightning & gusty winds (30-40 kmph) likely at isolated places over Uttarakhand and East Rajasthan.

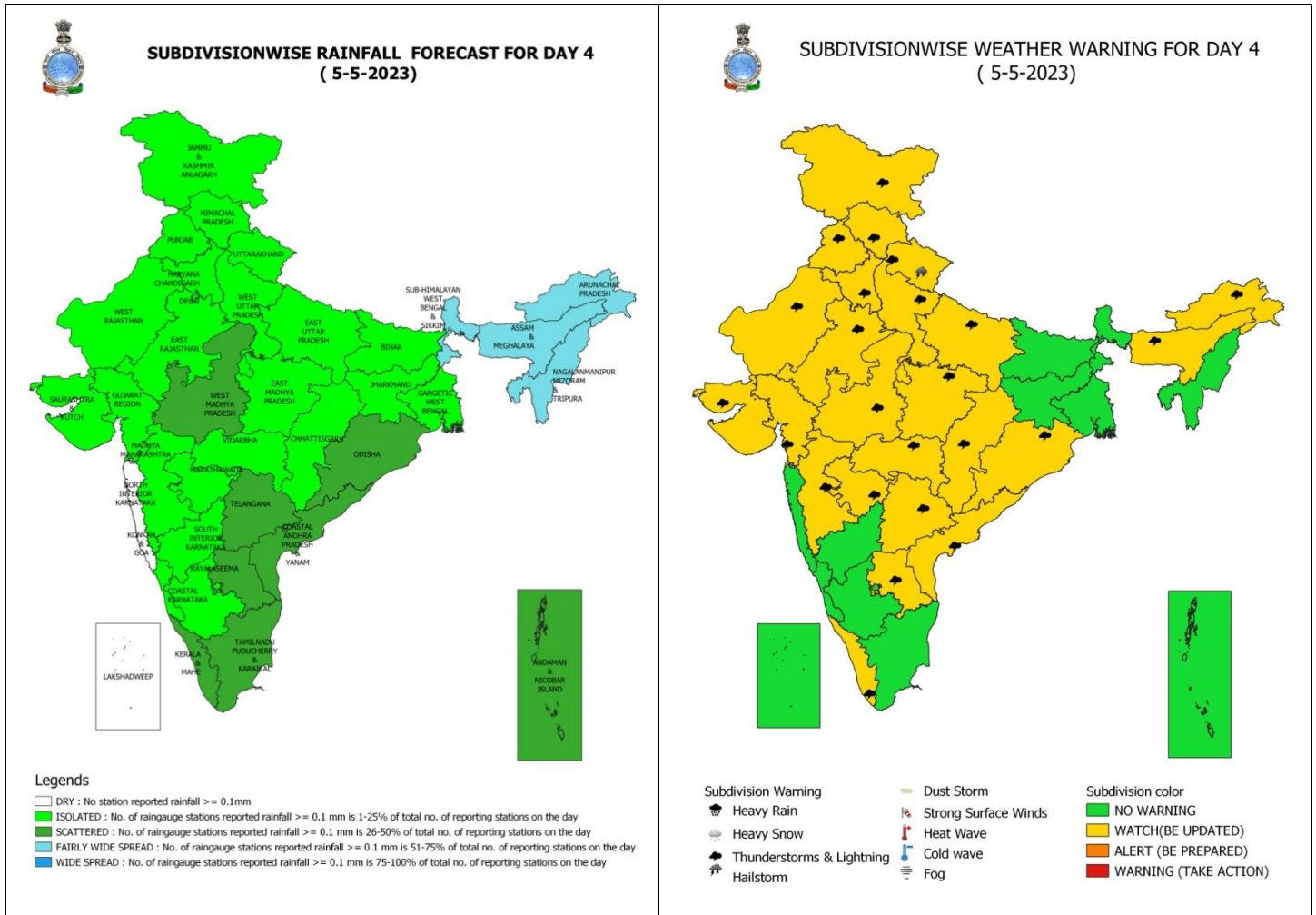
♦ Thunderstorm with lightning & gusty wind (40-50 kmph) likely at isolated places over Coastal Andhra Pradesh & Yanam; with lightning & gusty wind (30-40 kmph) over Madhya Pradesh, Rayalaseema; with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh,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

♦ Duststorm likely at isolated places over West Rajasthan.

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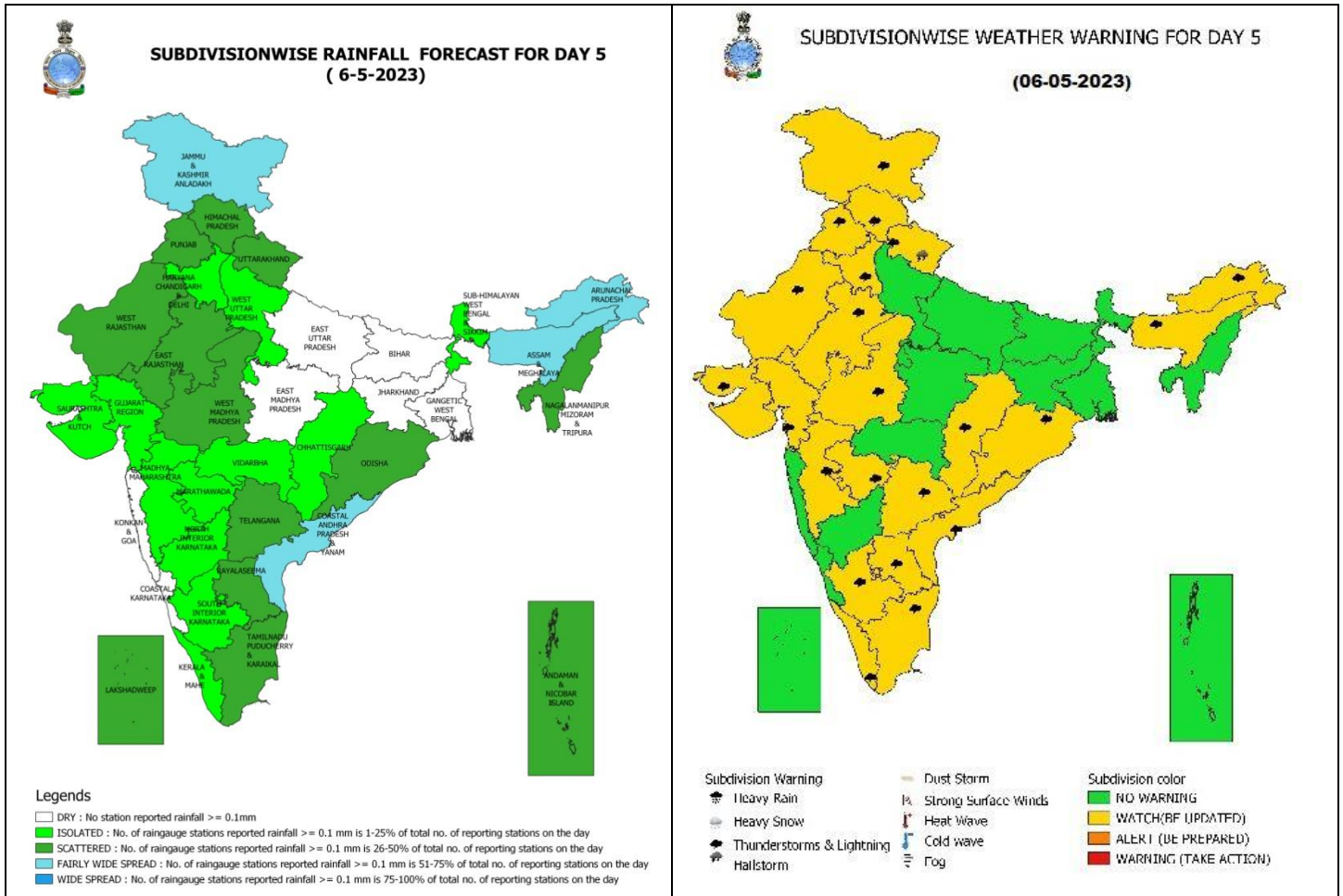
05 May (Day 4): ♦ Hailstorm with lightning & gusty winds (30-40 kmph) likely at isolated places over Uttarakhand.

♦ Thunderstorm with lightning & gusty wind (30-40 kmph) likely at isolated places over Rajasthan, Madhya Pradesh; with lightning at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Gujarat Region, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe.

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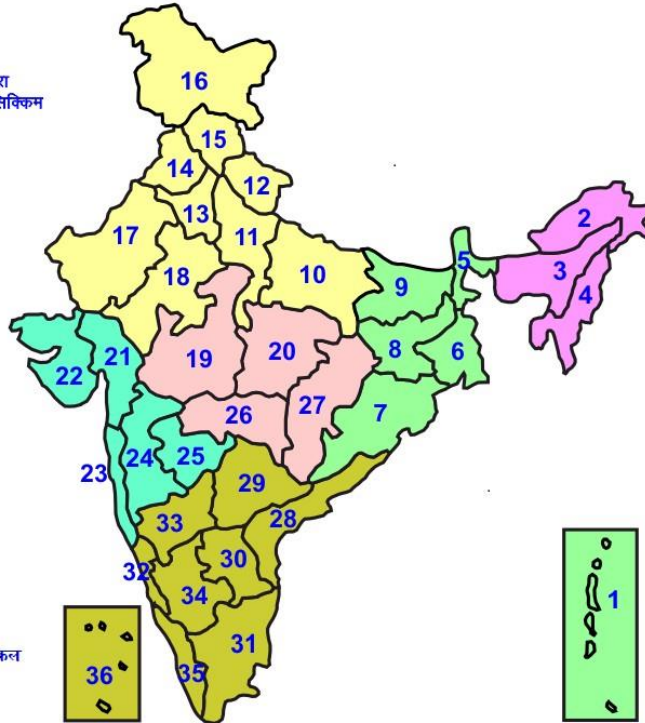


06 May (Day 5): ♦ Thunderstorm with lightning & gusty wind (30-40 kmph) likely at isolated places over Uttarakhand, Rajasthan, West Madhya Pradesh; with lightning at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chhattisgarh, Arunachal Pradesh, Gujarat Region, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka.



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 ओडिसा
- 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 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

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

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LEGENDS

WARNING

WARNING (TAKE ACTION)
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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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