



Wednesday, May 03, 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 Haryana & neighbourhood in lower tropospheric levels.
- ❖ Another Western Disturbance seen as a trough along Long. 70°E to the north of 25°N in middle tropospheric levels.
- ❖ A trough/wind discontinuity runs from southwest Madhya Pradesh to south Tamil Nadu in lower tropospheric levels.
- ❖ A cyclonic Circulation lies over South Interior Karnataka & neighbourhood in lower tropospheric levels.
- ❖ A fresh Western Disturbance likely to affect Northwest India from 05th May night.
- ❖ **A cyclonic circulation is likely to develop over Southeast Bay of Bengal around 06th May, 2023. Under its influence, a Low Pressure Area is likely to form over the same region during subsequent 48 hours.**

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 30-40 kmph)** very likely over Northwest India during next 24 hours, significant reduction thereafter for subsequent 02 days and **a fresh spell likely to influence the region from 06th May with scattered to fairly widespread rainfall/snowfall over Western Himalayan region and isolated to scattered rainfall over plains of northwest India for subsequent 2-3 days.**
- ❖ **Hailstorm** activity very likely at isolated places over Uttarakhand during 03rd-04th May. **Thundersquall (wind speed 50-60 kmph)** very likely over Uttarakhand on 03rd May.

Central India:

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over the region during next 24 hours and reduction thereafter.
- ❖ **Hailstorm** very likely at isolated places over East Madhya Pradesh on 03rd May.

East India:

- ❖ Light/moderate scattered to fairly widespread **rainfall** with thunderstorm/lightning/gusty winds very likely over the region during next 24 hours and reduction thereafter.
- ❖ **Hailstorm** very likely at isolated places over Gangetic West Bengal on 03rd May.

South 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.
- ❖ **Heavy rainfall** very likely at isolated places over Coastal Andhra Pradesh during 03rd-04th and over South Interior Karnataka, Kerala & Tamil Nadu on 03rd 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 during 03rd-05th May and over Assam & Meghalaya on 03rd & 05th 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 Madhya Maharashtra and Marathawada on 04th May.

Maximum Temperatures, its Forecast and Heat Wave Warnings:

- ❖ Yesterday, Maximum Temperatures were below 37°C over most parts of the country. These were below normal by 5-8°C over most parts of the country
- ❖ Maximum temperatures are very likely to be below normal to near normal over the country 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 hours IST to 1730 hours IST of yesterday): **at most places over** Uttarakhand; at many places over East Madhya Pradesh; at a few places over Himachal Pradesh, West Uttar Pradesh, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Lakshadweep; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Gangetic West Bengal, Gujarat State, Marathwada, Rayalaseema and Kerala & Mahe.
- ❖ **Heavy rainfall occurred** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Kerala & Mahe.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday)(in cm): Punalur-8, Mukteshwar Kumaon, Pantnagar, Najibabad, Seoni, Jabalpur, Cooch Behar, Rentachintala and Kakinada -2 each.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Uttar Pradesh, West Rajasthan, Jharkhand, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Uttarakhand, Kerala & Mahe, Arunachal Pradesh, Vidarbha, Madhya Pradesh, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Hailstorm Observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Uttar Pradesh and Madhya Pradesh.
- ❖ **Minimum Temperature Departures (as on 02-05-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at most places over Andaman & Nicobar Islands; at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Assam & Meghalaya. They were **markedly below normal (-5.1°C or less)** at many places over East Madhya Pradesh; at a few places over East Rajasthan, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh, Chhattisgarh, Vidarbha and Telangana; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Jharkhand; at many places over West Rajasthan, East Uttar Pradesh, Gangetic West Bengal, Odisha, Marathwada, Coastal Andhra Pradesh & Yanam and Lakshadweep; at a few places over Bihar, Gujarat Region, Madhya Maharashtra and North Interior Karnataka; at isolated places over Rayalaseema and Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at many places over Punjab and Konkan & Goa; at a few places over Uttarakhand, Saurashtra & Kutch and Kerala & Mahe; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Arunachal Pradesh and **near normal** over rest parts of the country. Yesterday, the **lowest minimum temperature of 16.0°C** was reported at **Delhi-Ridge (Delhi)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 02-05-2023):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; at isolated places over Coastal Karnataka. They were **markedly below normal (-5.1°C or less)** at most places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Telangana; at many places over Marathwada, Rayalaseema; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Bihar, Saurashtra & Kutch, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal; at isolated places over Gujarat Region; **appreciably below normal (-3.1°C to -5.1°C)** at a few places over Gangetic West Bengal; **below normal (-1.6°C to -3.0°C)** at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Arunachal Pradesh and **near normal** over rest parts of the country. Yesterday, the **highest maximum temperature of 37.0°C** was reported at **Bhubaneswar (Odisha)**.

* 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 **trough** with its axis at 5.8 km above mean sea level now runs roughly along Long. 70°E to the north of Lat. 25°N.
- ❖ The **Western Disturbance** as a cyclonic circulation over Haryana & neighbourhood extending upto 4.5 km above mean sea level persists.
- ❖ The **trough/wind discontinuity** from southwest Madhya Pradesh to south Tamil Nadu across Marathwada and interior Karnataka at 0.9 km above mean sea level persists.
- ❖ The **cyclonic circulation** over south Chhattisgarh & neighbourhood upto 0.9 km above mean sea level persist.
- ❖ The **cyclonic circulation** over South Interior Karnataka & adjoining Tamil Nadu between 1.5 km & 3.1 km above mean sea level persists.
- ❖ The **trough** from the above cyclonic circulation over South Interior Karnataka & adjoining Tamil Nadu to Southwest Bay of Bengal off north Sri Lanka coast between 1.5 km & 3.1 km above mean sea level persists.
- ❖ A fresh Western Disturbance likely to affect Northwest India from the night of 05th May, 2023.
- ❖ A cyclonic circulation is likely to develop over Southeast Bay of Bengal around 06th May, 2023. Under its influence, a Low Pressure Area is likely to form over the same region during subsequent 48 hours.

Weather Forecast for next 5 days (Upto 0830 hours IST of 08th 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 24 hours and rise by 3-5°C thereafter.
- ❖ **Central India:** Gradual rise by 3-5°C in maximum temperatures very likely during next 4-5 days.
- ❖ **Gujarat state:** Gradual rise by 2-3°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 08th-10th 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.

* 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



Weather Warning during next 5 days

03 May (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **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 Gangetic West Bengal; **with lightning & gusty wind (40-50 kmph)** at isolated places over East Madhya Pradesh.

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

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

♦ **Squally Weather (wind speed reaching 40-45 kmph gusting to 55 kmph)** very likely at isolated places over Southwest & adjoining Westcentral Bay of Bengal and along & off north Tamil Nadu & south Coastal Andhra Pradesh, Lakshadweep-Maldives-Comorin areas, Gulf of Mannar and along & off Kerala coast.

04 May (Day 2): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh and Coastal Andhra Pradesh.

♦ **Hailstorm with lightning** very likely at isolated places over Madhya Maharashtra, Marathwada.

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

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

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

♦ **Thunderstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Rajasthan, Assam & Meghalaya; **with lightning** at isolated places Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Gangetic West Bengal, Odisha, Gujarat, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.

06 May (Day 4): ♦ **Thunderstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Rajasthan; **with lightning** at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Andaman & Nicobar Islands, Odisha, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka.

07 May (Day 5): ♦ **Thunderstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Rajasthan; **with lightning** at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Andaman & Nicobar Islands, Odisha, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka.

* 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	03-May	04-May	05-May	06-May	07-May
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	FWS	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	WS	WS	WS	FWS	FWS
3	ASSAM & MEGHALAYA	FWS	FWS	FWS	SCT	SCT
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	SCT	SCT	SCT	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	FWS	SCT	ISOL	ISOL	ISOL
7	ODISHA	SCT	SCT	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	DRY	DRY	DRY
9	BIHAR	SCT	ISOL	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	FWS	SCT	DRY	DRY	DRY
11	WEST UTTAR PRADESH	FWS	ISOL	ISOL	DRY	DRY
12	UTTARAKHAND	WS	FWS	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	FWS	ISOL	ISOL	SCT	SCT
14	PUNJAB	FWS	ISOL	ISOL	SCT	SCT
15	HIMACHAL PRADESH	WS	SCT	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	SCT	ISOL	ISOL	FWS	FWS
17	WEST RAJASTHAN	SCT	SCT	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	SCT	SCT	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	SCT	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	SCT	SCT	ISOL	ISOL	ISOL
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	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	SCT	SCT	ISOL	ISOL	ISOL
27	CHHATTISGARH	SCT	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	FWS	FWS	SCT	SCT	SCT
29	TELANGANA	FWS	SCT	SCT	SCT	SCT
30	RAYALASEEMA	FWS	SCT	SCT	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	WS	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	SCT	SCT	SCT
35	KERALA & MAHE	FWS	SCT	SCT	SCT	SCT
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

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

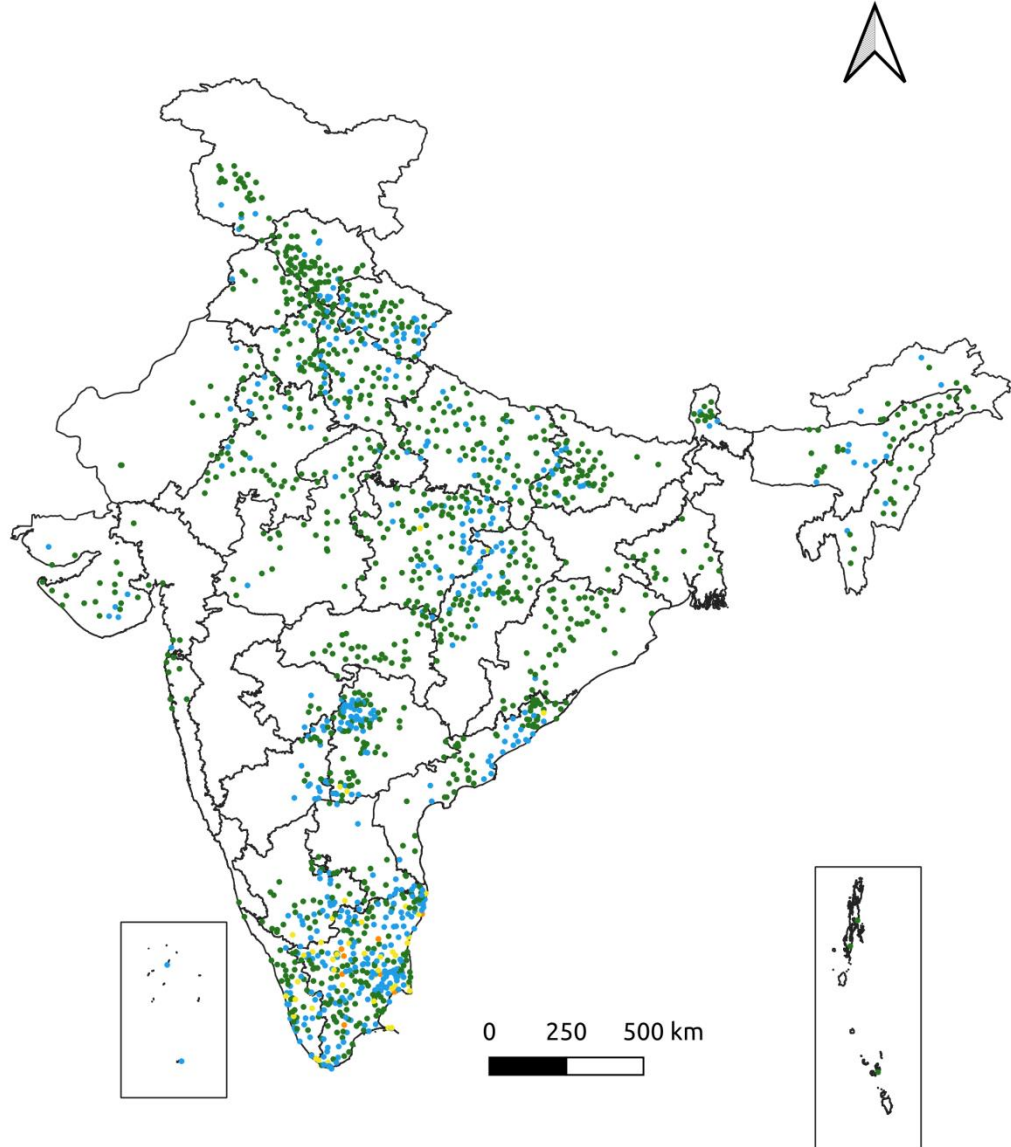
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

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



24 Hr cumulative rainfall recorded over different stations
during 0830 IST of 1-5-2023 to 0830 IST of 2-5-2023



Legends

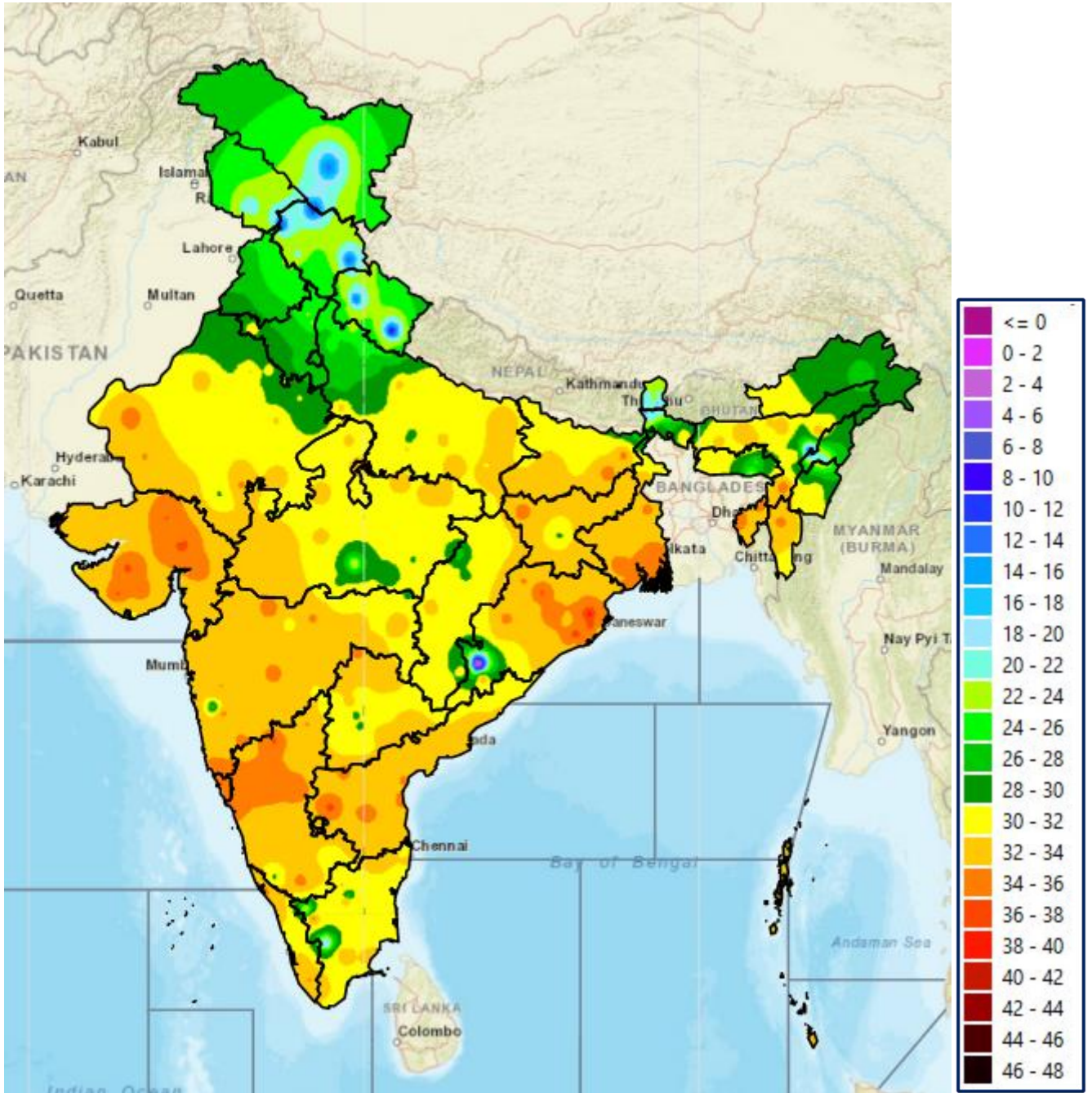
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

* 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 02.05.2023



* 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. 3: Minimum Temperatures Dated 02.05.2023

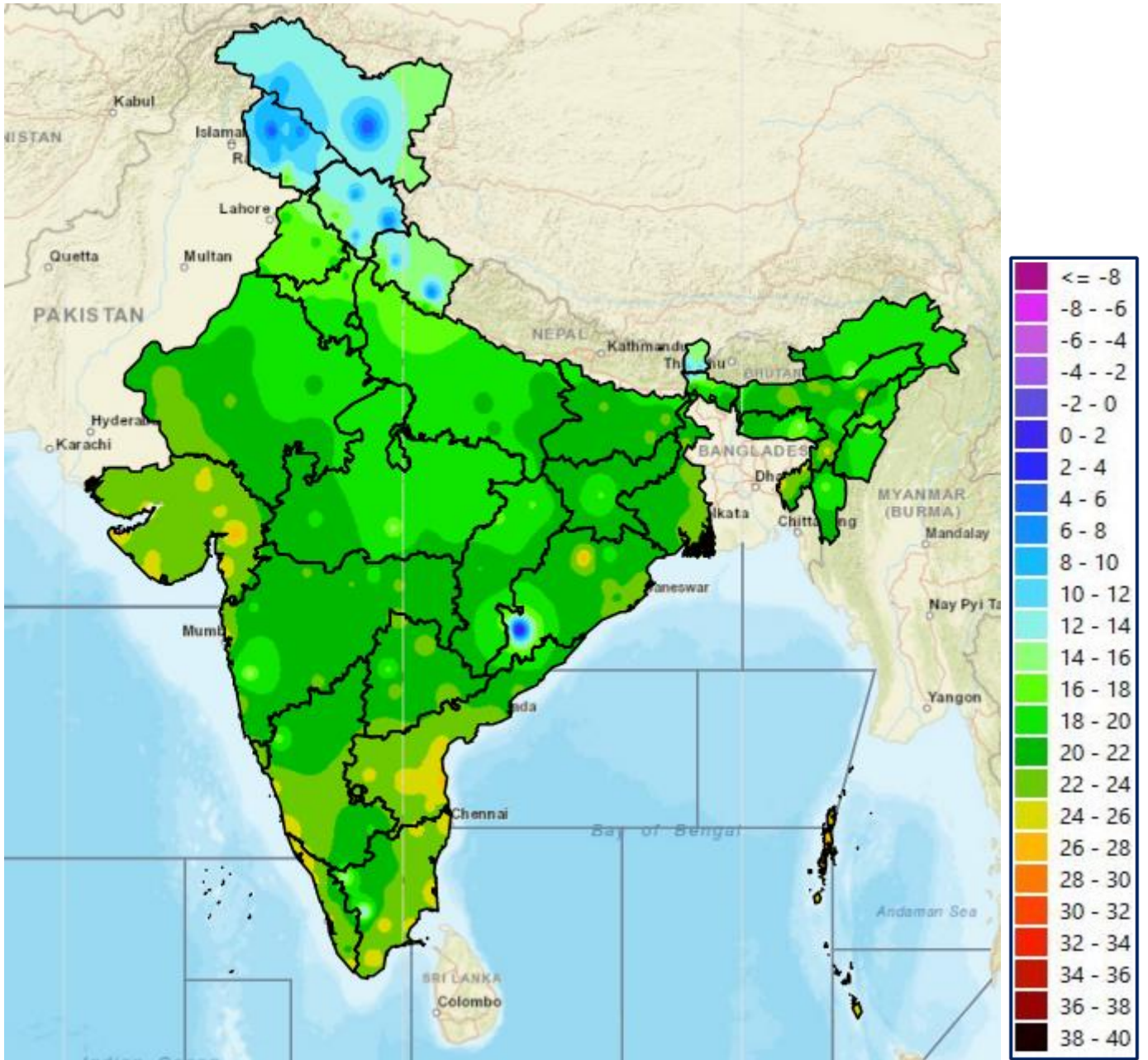
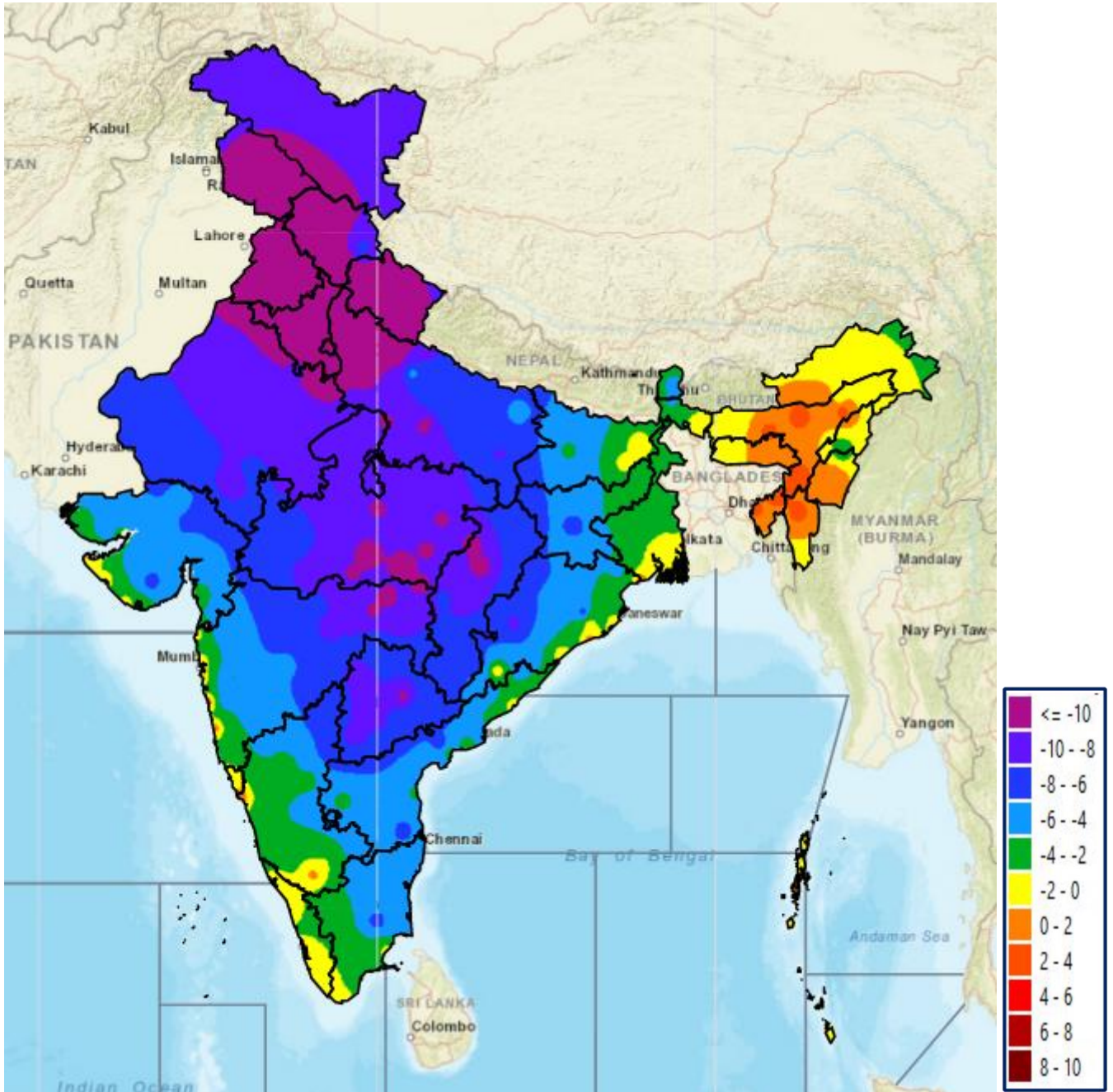
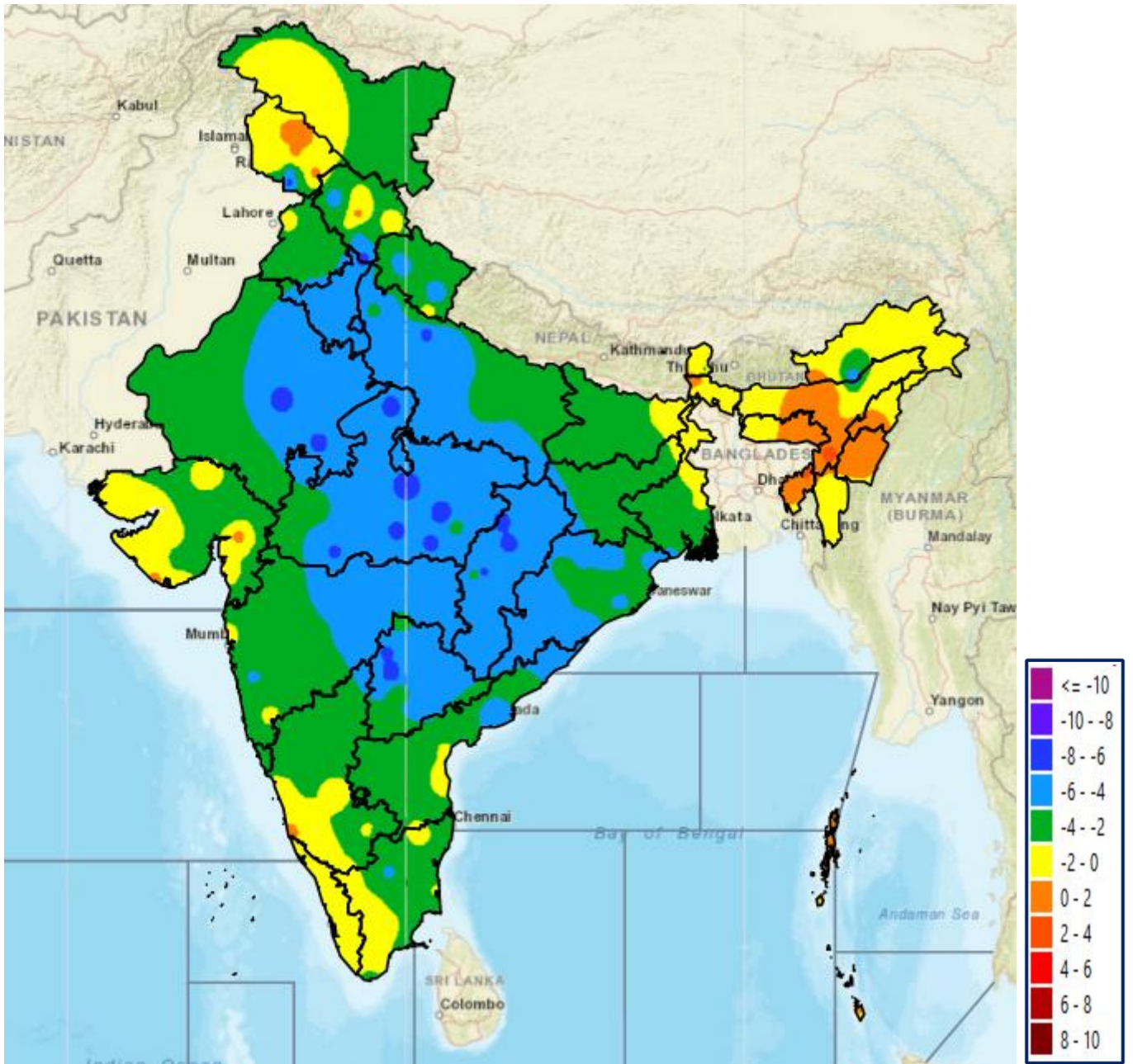


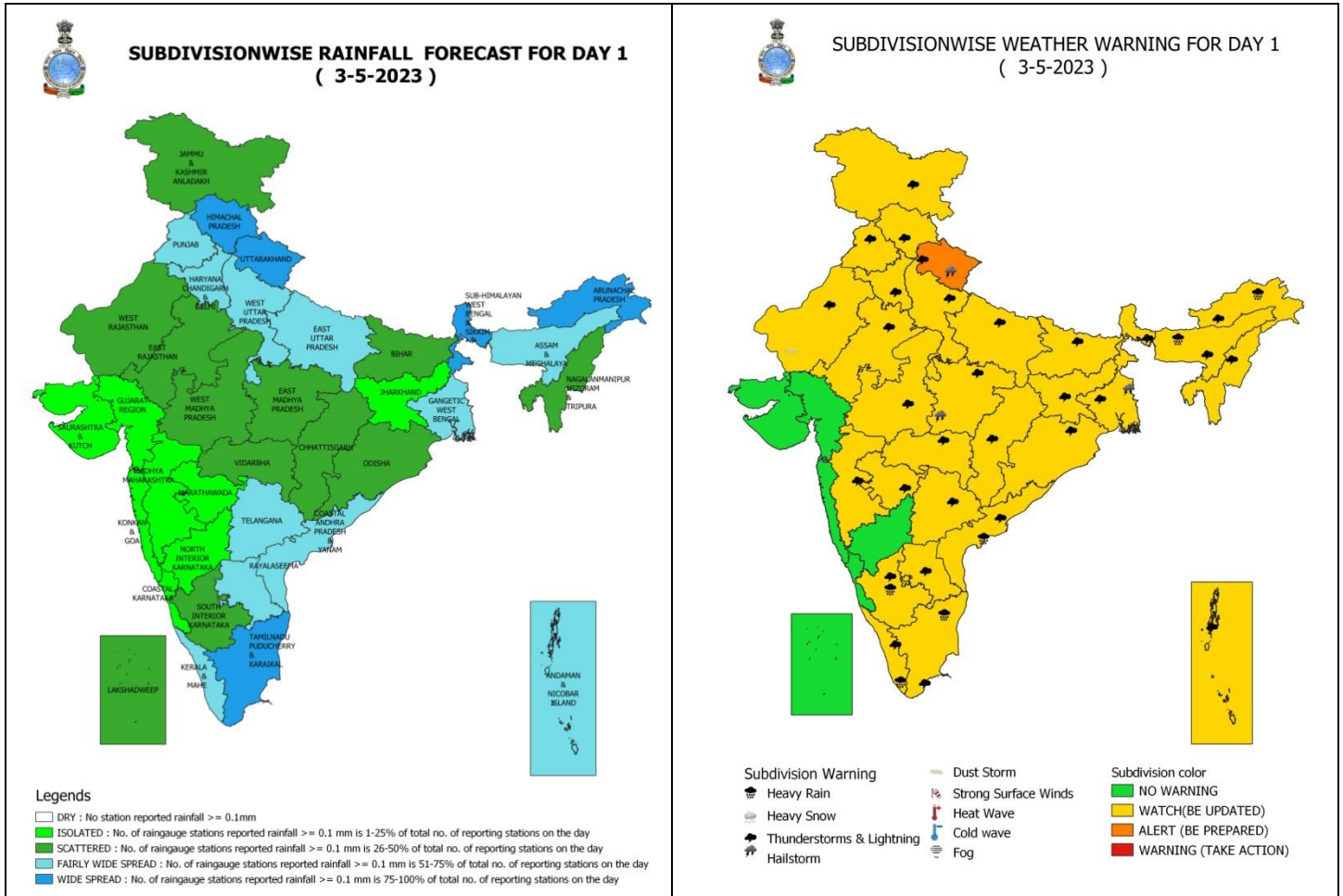
Fig. 4: Departure from Normal of Maximum Temperatures Dated 02.05.2023



* 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. 5: Departure from Normal of Minimum Temperatures Dated 02.05.2023





03 May (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **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 Gangetic West Bengal; **with lightning & gusty wind (40-50 kmph)** at isolated places over East Madhya Pradesh.

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

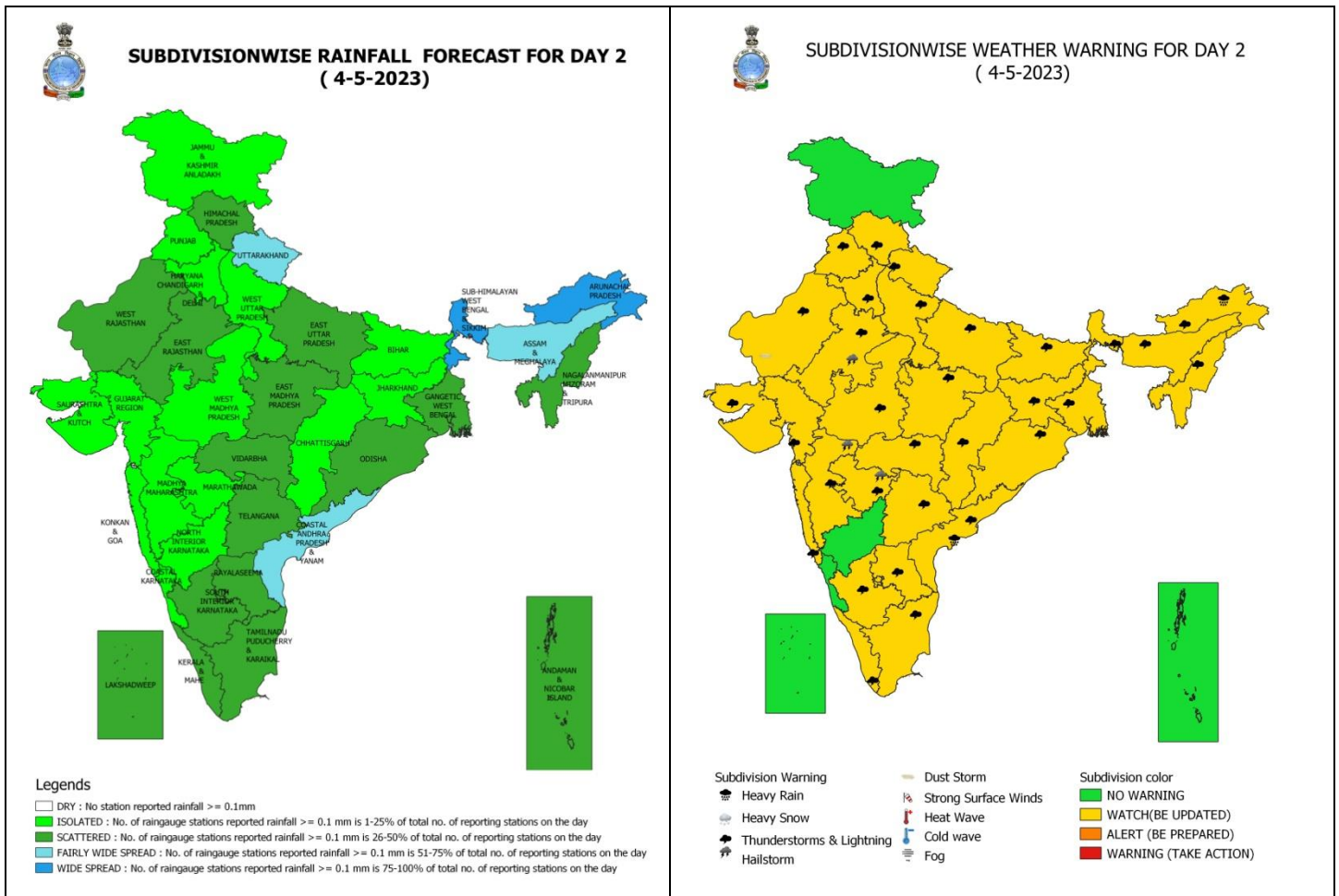
♦ **Duststorm** very likely at isolated places over West Rajasthan.

♦ **Squally Weather (wind speed reaching 40-45 kmph gusting to 55 kmph)** very likely at isolated places over Southwest & adjoining Westcentral Bay of Bengal and along & off north Tamil Nadu & south Coastal Andhra Pradesh, Lakshadweep-Maldives-Comorin areas, Gulf of Mannar and along & off Kerala coast.

* 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



04 May (Day 2): ♦ Heavy rainfall very likely at isolated places over Arunachal Pradesh and Coastal Andhra Pradesh.

♦ **Hailstorm with lightning** very likely at isolated places over Madhya Maharashtra, Marathwada.

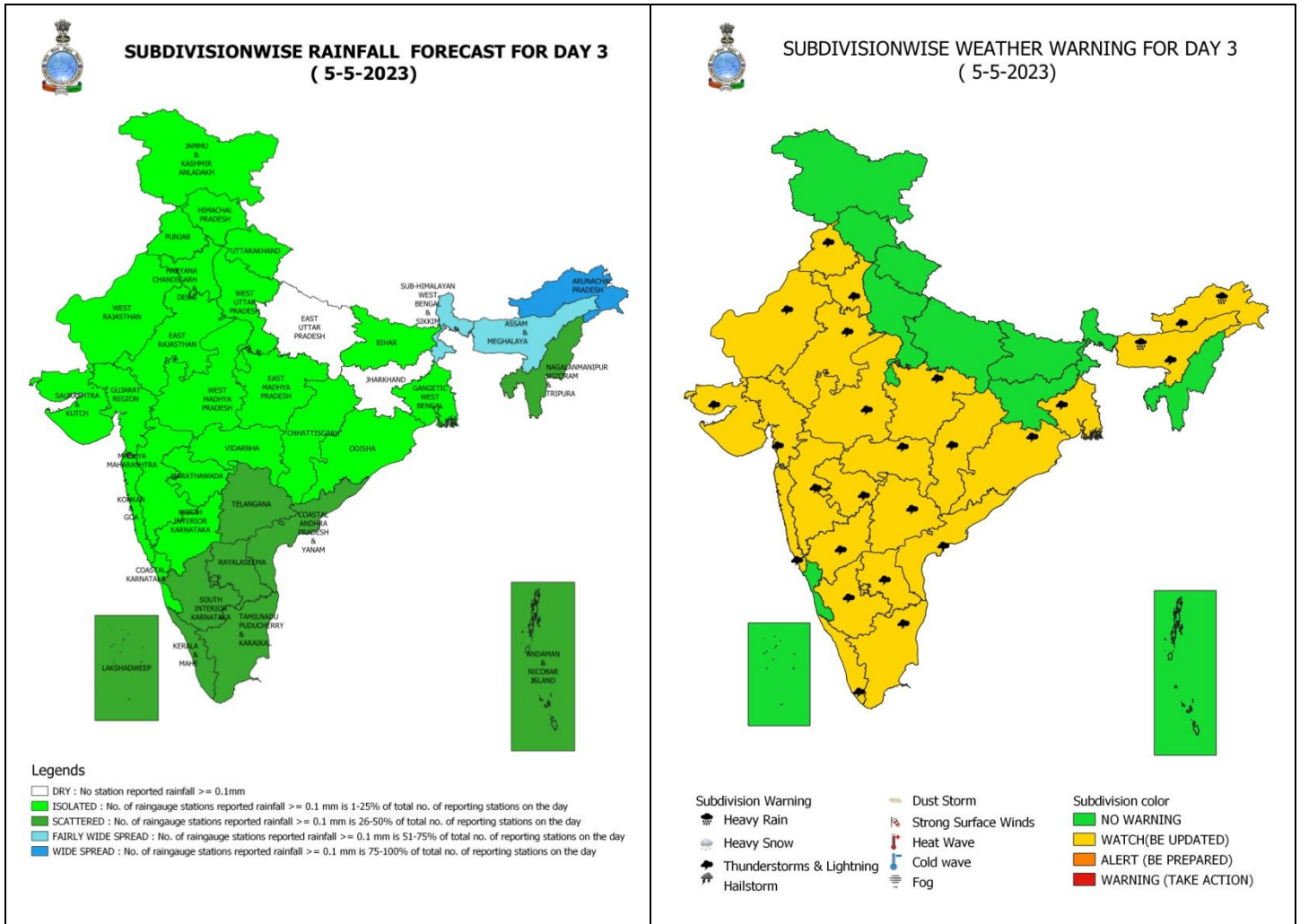
♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over East Rajasthan, Telangana, Coastal Andhra Pradesh & Yanam; **with lightning & gusty wind (30-40 kmph)** over Assam & Meghalaya, West Bengal & Sikkim, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala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

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



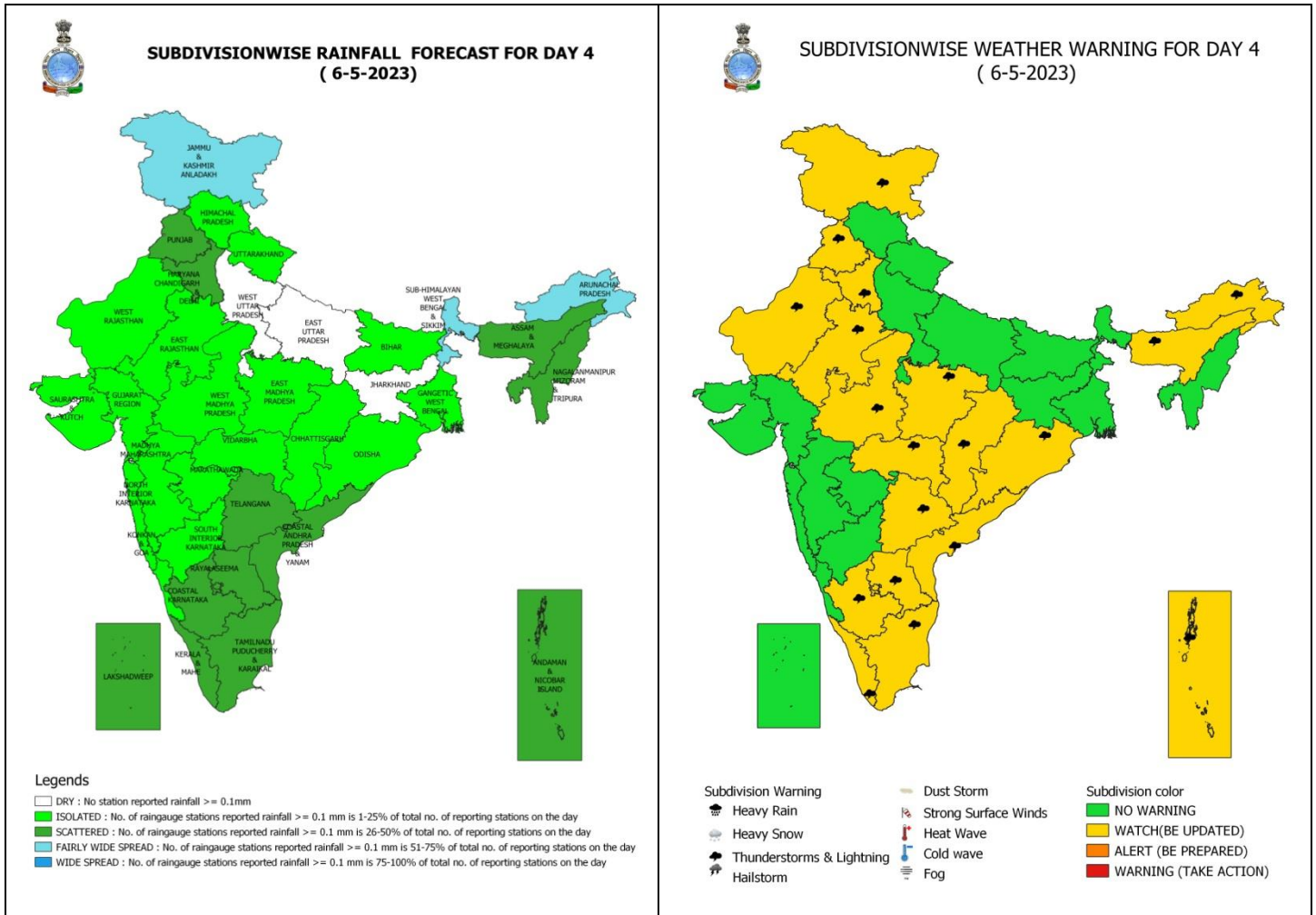
05 May (Day 3): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Rajasthan, Assam & Meghalaya; **with lightning** at isolated places Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Gangetic West Bengal, Odisha, Gujarat, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.

* 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

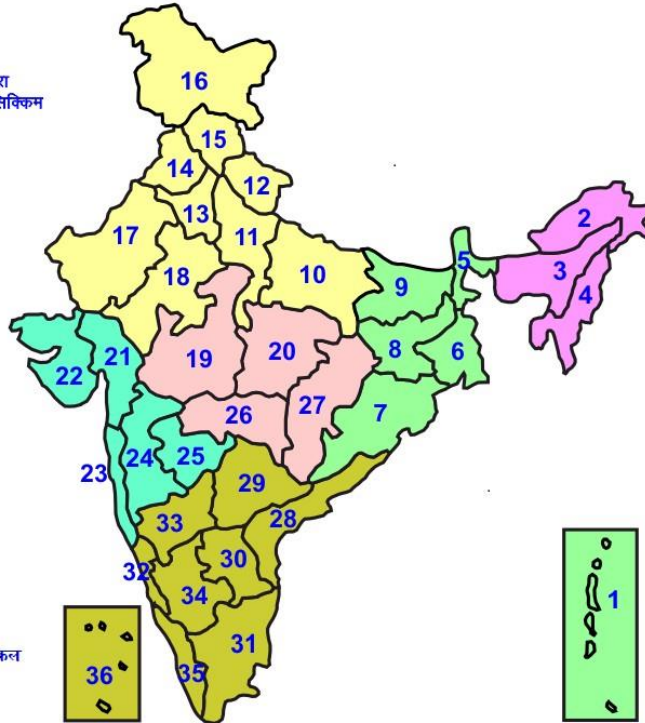
For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798



06 May (Day 4): ♦ Thunderstorm with lightning & gusty wind (30-40 kmph) likely at isolated places over Rajasthan; with lightning at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Andaman & Nicobar Islands, Odisha, Madhya Pradesh, Vidarbha, Chhattisgarh, 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 गंगेय 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".

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