

Monday, May 6, 2024  
Time of Issue: 0745 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### Weather Systems and Forecast & Warnings:

- ❖ A cyclonic circulation lies over northeast Assam in lower tropospheric levels. Another cyclonic circulation lies over northeast Bihar and a trough runs from this cyclonic circulation to North Odisha in lower tropospheric levels. Strong southwesterly winds from Bay of Bengal to Northeast India are very likely to prevail at lower tropospheric levels till 07<sup>th</sup> May, 2024. Under their influence:
  - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with isolated **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Arunachal Pradesh, Assam, Meghalaya, Nagaland, Manipur, Mizoram & Tripura during next 7 days.
  - ✓ **Isolated heavy rainfall** very likely over Arunachal Pradesh on 06<sup>th</sup>; Assam & Meghalaya on 07<sup>th</sup>; and Nagaland, Manipur, Mizoram & Tripura on 06<sup>th</sup> & 07<sup>th</sup>. **Isolated very heavy rainfall also very likely over Assam & Meghalaya on 06<sup>th</sup> May, 2024.**
  - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & squally winds (50-60 kmph)** very likely over Gangetic West Bengal on 06<sup>th</sup> & 07<sup>th</sup>; scattered to fairly widespread rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Jharkhand & Odisha during 06<sup>th</sup>-10<sup>th</sup>; over Vidarbha & Chhattisgarh during next 5 days. **Isolated heavy rainfall likely over Gangetic West Bengal on 06<sup>th</sup> & 07<sup>th</sup> and over Odisha on 07<sup>th</sup> & 08<sup>th</sup> May, 2024.**
- ❖ A cyclonic circulation lies over Marathwada and a trough/wind discontinuity runs from Marathwada to south Tamil Nadu in lower tropospheric levels. Under their influence:
  - ✓ Isolated to scattered light to moderate rainfall accompanied with **thunderstorm & lightning & gusty winds (30-40 kmph)** very likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana during next 5 days; over North & South Interior Karnataka on 07<sup>th</sup> & 08<sup>th</sup>; over Lakshadweep on 09<sup>th</sup> May, 2024.
  - ✓ **Isolated heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal & Rayalaseema on 07<sup>th</sup> & 08<sup>th</sup>; over Coastal Andhra Pradesh & Yanam, Telangana & South Interior Karnataka on 07<sup>th</sup> and over Kerala & Mahe during 08<sup>th</sup>-10<sup>th</sup> May, 2024.**
- ❖ A Western Disturbance seen as a trough along Long. 67°E to the north of Lat. 32°N in lower & middle tropospheric westerlies. Another fresh Western Disturbance likely to affect Northwest India from 09<sup>th</sup> May. Under their influence:
  - ✓ Isolated light to moderate rainfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 06<sup>th</sup>; Himachal Pradesh and Uttarakhand during 06<sup>th</sup>-08<sup>th</sup> and scattered to fairly widespread activity accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** during 09<sup>th</sup>-11<sup>th</sup> May, 2024.
  - ✓ Isolated light to moderate rainfall very likely over Haryana-Chandigarh, Punjab and East Rajasthan during 09<sup>th</sup>-11<sup>th</sup> and isolated to scattered light to moderate rainfall activity over Uttar Pradesh during 07<sup>th</sup>-11<sup>th</sup> May, 2024.
  - ✓ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh during next 5 days.

#### Maximum temperature observation:

- ❖ Yesterday, maximum temperatures were in the range of 44-45°C in isolated pockets over Telangana, Rayalaseema, Vidarbha, North Interior Karnataka, north Madhya Pradesh; in the range of 42-44°C in some parts of Marathwada, south east Uttar Pradesh, northeast Madhya Pradesh, Chhattisgarh, north Odisha, Gangetic West Bengal, Jharkhand, Tamil Nadu and Coastal Andhra Pradesh. These were above normal 4-7°C in some parts of Gangetic West Bengal and 2-5°C over some parts of Uttar Pradesh, Odisha, Telangana, Rayalaseema, Tamil Nadu and in isolated pockets over Kerala & Mahe, Interior Karnataka, Chhattisgarh, Bihar and Jharkhand.

#### Heat Wave, Warm Night and Hot & Humid weather warning for next 5 days:

- ❖ **Heat wave conditions** in isolated pockets over Tamil Nadu, Rayalaseema, Telangana, Vidarbha on 06<sup>th</sup>; interior Karnataka on 06<sup>th</sup> & 07<sup>th</sup>; West Rajasthan during 07<sup>th</sup>-10<sup>th</sup>; East Rajasthan & West Madhya Pradesh during 08<sup>th</sup>-10<sup>th</sup> and Saurashtra during 06<sup>th</sup>-10<sup>th</sup> May, 2024.
- ❖ **Hot and humid weather** very likely to prevail in isolated pockets over Gujarat State during next 5 days; Jharkhand on 06<sup>th</sup>; Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka & Kerala & Mahe on 06<sup>th</sup> & 07<sup>th</sup> and Rayalaseema during 07<sup>th</sup>-10<sup>th</sup> May, 2024.

### Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Arunachal Pradesh, Assam & Meghalaya; at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Gangetic West Bengal, Telangana, Kerala & Mahe & Tamil Nadu.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **Assam & Meghalaya:** East Khasi Hills, Jaintia Hills-8 each, West Khasi Hills-6, Kamrup-4, Golpara, Dhubri-3 each; **Arunachal Pradesh:** East Kameng, Upper Siang-3; **Mizoram:** Kolasib-3.
- ❖ **Heavy rainfall** observed at isolated places over Assam & Meghalaya.
- ❖ Yesterday, **Heat Wave to severe heat wave conditions** prevailed in isolated pockets of Gangetic West Bengal & Tamil Nadu and **Heat wave conditions** in isolated pockets of Jharkhand & Odisha. ***Heat wave conditions have been prevailing over Odisha since 15<sup>th</sup>, Gangetic West Bengal since 17<sup>th</sup>, Rayalaseema since 24<sup>th</sup> April, 2024.***
- ❖ **Minimum Temperature Departures (as on 05-05-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Kerala & Mahe; at isolated places over Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Gangetic West Bengal, West Madhya Pradesh, Marathwada and Madhya Maharashtra; **above normal (1.6°C to 3.0°C)** at most places over Coastal Andhra Pradesh & Yanam; at a few places over Andaman & Nicobar Islands, Telangana, and Gujarat state; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, Odisha, Bihar, Interior Karnataka, Lakshadweep, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura. These were **markedly below normal (-5.1°C or less)** at isolated places over Chhattisgarh; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over East Uttar Pradesh and Jharkhand; **below normal (-1.6°C to -3.0°C)** at a few places over East Madhya Pradesh; at isolated places over Himachal Pradesh, Haryana-Chandigarh-Delhi, Vidarbha, Assam & Meghalaya and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 18.9°C** was reported at **Nahan (Haryana-Chandigarh-Delhi)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 05-05-2024):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Gangetic West Bengal; at isolated places at a few places over Bihar; **above normal (1.6°C to 3.0°C)** at many places over West Uttar Pradesh, Uttarakhand, Madhya Maharashtra, Marathwada, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Telangana, Rayalaseema; at a few places over East Uttar Pradesh, Haryana-Chandigarh-Delhi, Himachal Pradesh, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam ; at isolated places over Punjab, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad. These were **markedly below normal (-3.1°C to -5.0°C)** at isolated places over Arunachal Pradesh, Assam & Meghalaya; **below normal (-1.6°C to -3.0°C)**; at isolated places over Gujarat state and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 45.1°C** was reported at **Saraikela (Jharkhand)** over the country.

### Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Western Disturbance as a trough in lower & middle tropospheric westerlies with its axis at 3.1 km above mean sea level now runs roughly along Long. 67°E to the north of Lat. 32°N.
- ❖ The cyclonic circulation over northeast Bihar and neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over northeast Bihar and neighbourhood to north Odisha across Gangetic West Bengal at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over Marathwada & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood extending upto 3.1 km above mean sea level persists.
- ❖ The trough/wind discontinuity from Marathwada to south Tamil Nadu across interior Karnataka at 0.9 km above mean sea level persists.
- ❖ A fresh Western Disturbance likely to affect northwest India from 09<sup>th</sup> May, 2024.

### Weather Forecast for next 7 days (Upto 0830 hours IST of 13<sup>th</sup> May, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Rise in maximum temperatures by about 2°C very likely over many parts of Northwest & Central India during next 2 days and no significant change thereafter.
- ❖ Fall in maximum temperatures by 4-6°C very likely over East India during next 4-5 days.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

### Weather Outlook for subsequent 3 days (During 13<sup>th</sup>-15<sup>th</sup> May, 2024)

- ❖ Isolated to scattered light/moderate rainfall likely over Northwest, Northeast, East, central & south Peninsular India.
- ❖ Dry weather likely to prevail over rest parts of the country.

Table-1

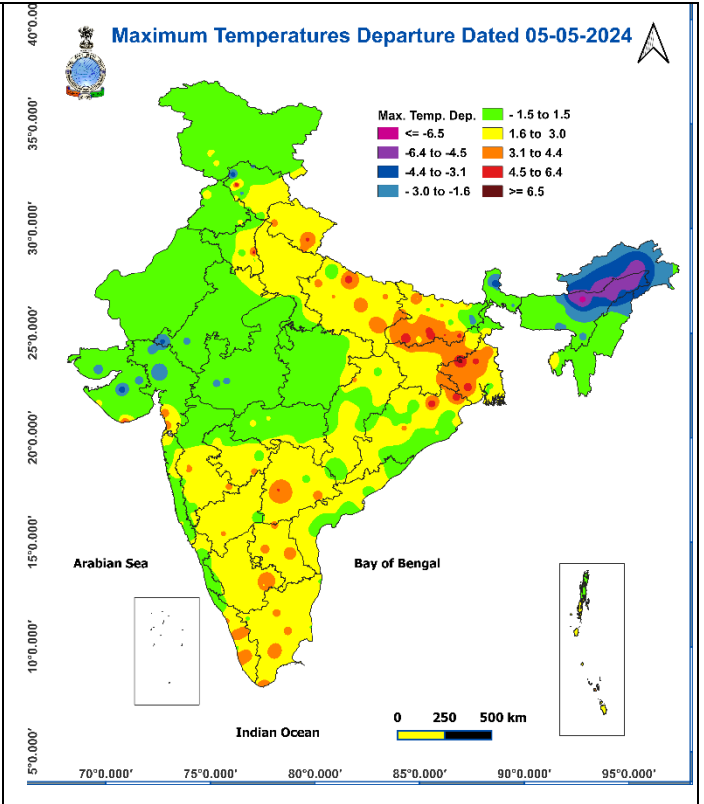
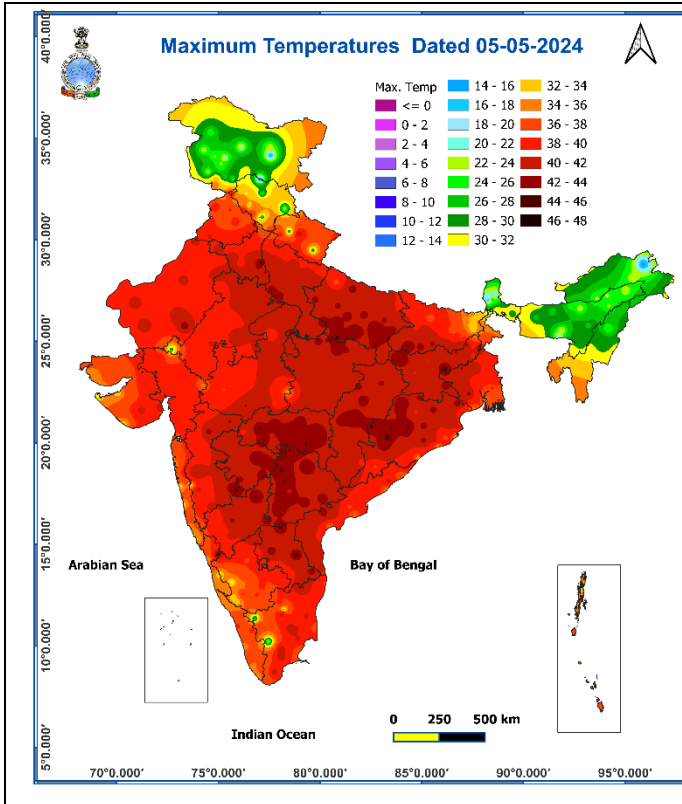
7 Days Rainfall Forecast								
S. No.	Subdivision	06-May	07-May	08-May	09-May	10-May	11-May	12-May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	WS	FWS	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	WS	FWS	SCT	FWS	FWS	FWS	FWS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

\* Red colour warning does not mean "Red Alert", Red colour 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 <https://mausam.imd.gov.in> or contact: 011-2434-4599  
(Service to the Nation since 1875)

**Fig. 1: Maximum Temperatures**

**Fig. 2: Departure of Maximum Temperatures**



**Fig. 3: Minimum Temperatures**

**Fig. 4: Departure of Minimum Temperatures**

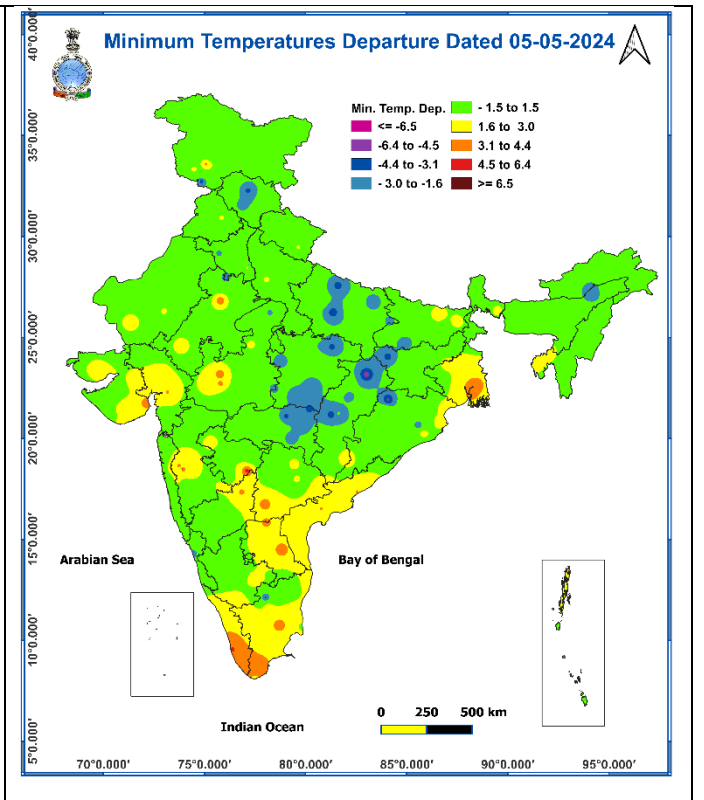
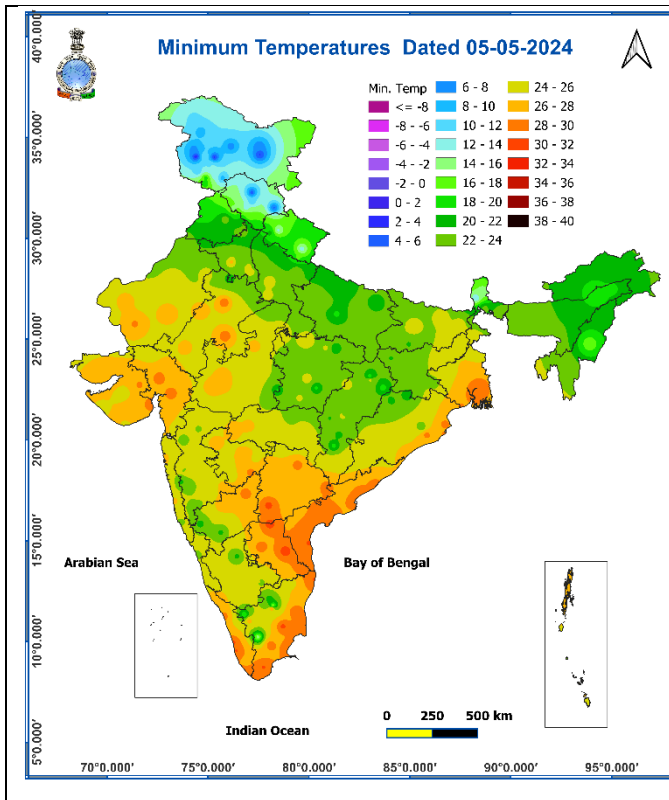
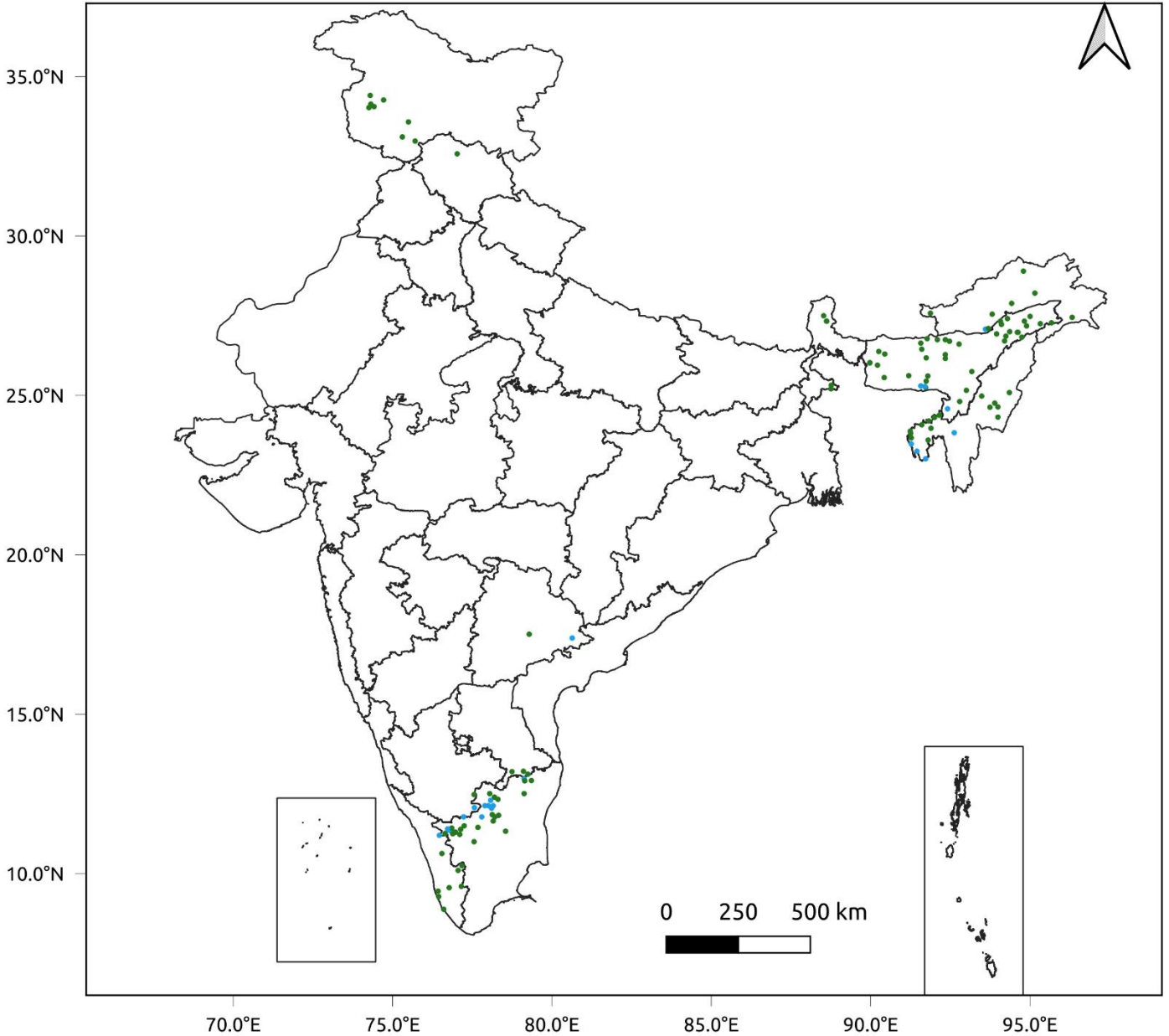


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

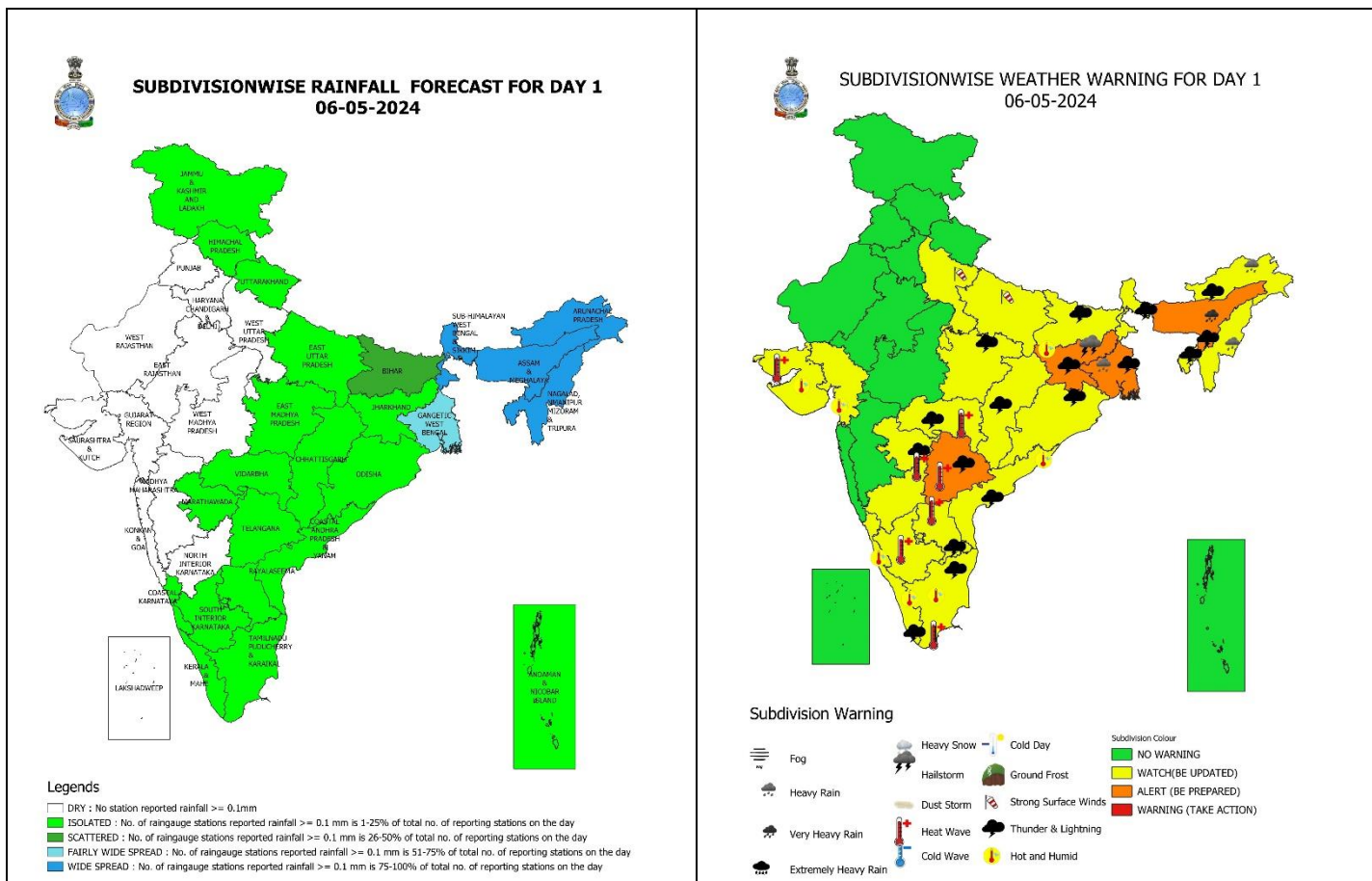


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 4-5-2024 to 0830 IST of 5-5-2024



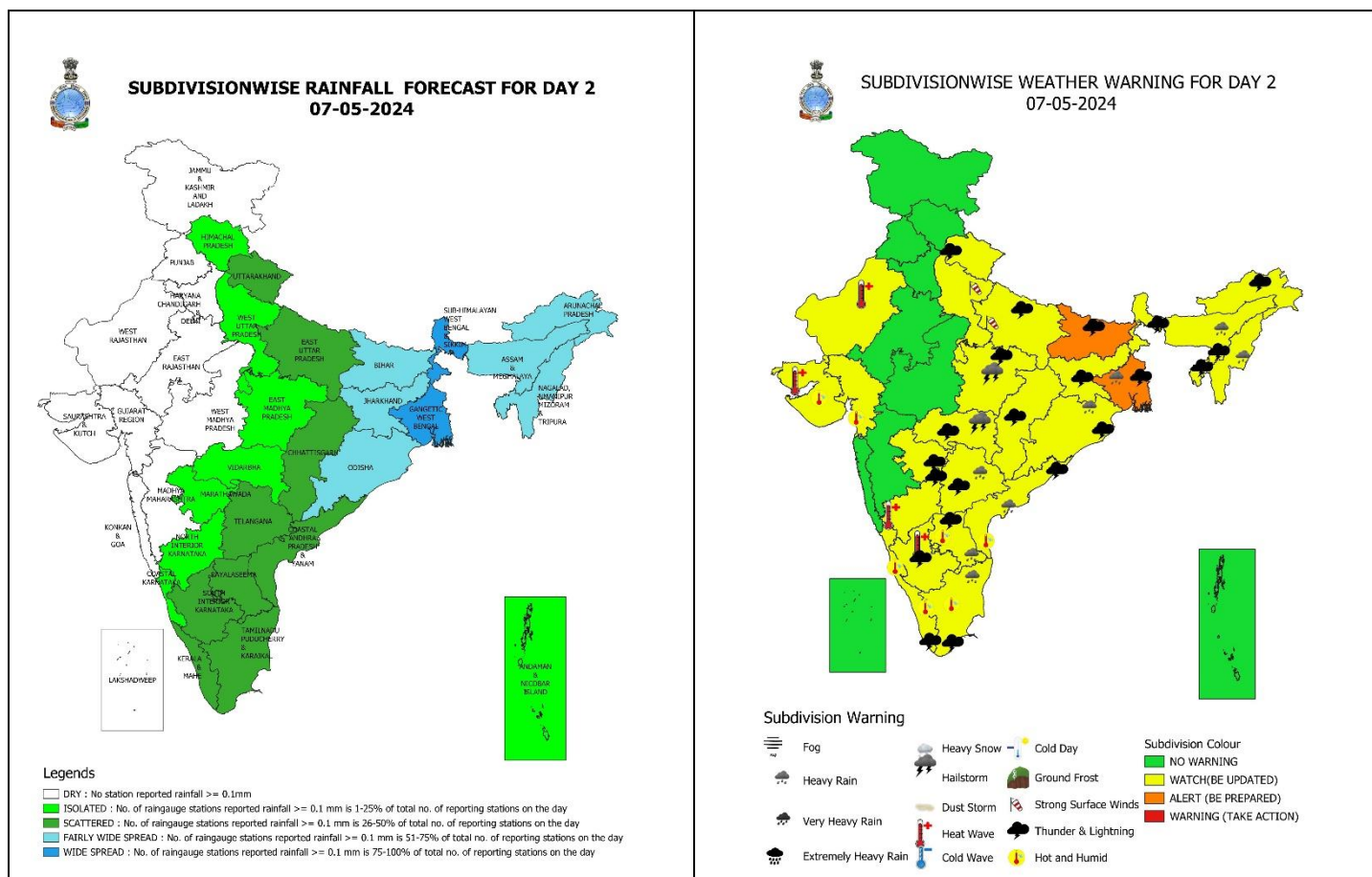
## Legends

- 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 ( $\geq 204.5$  mm)



## 06 May (Day 1):

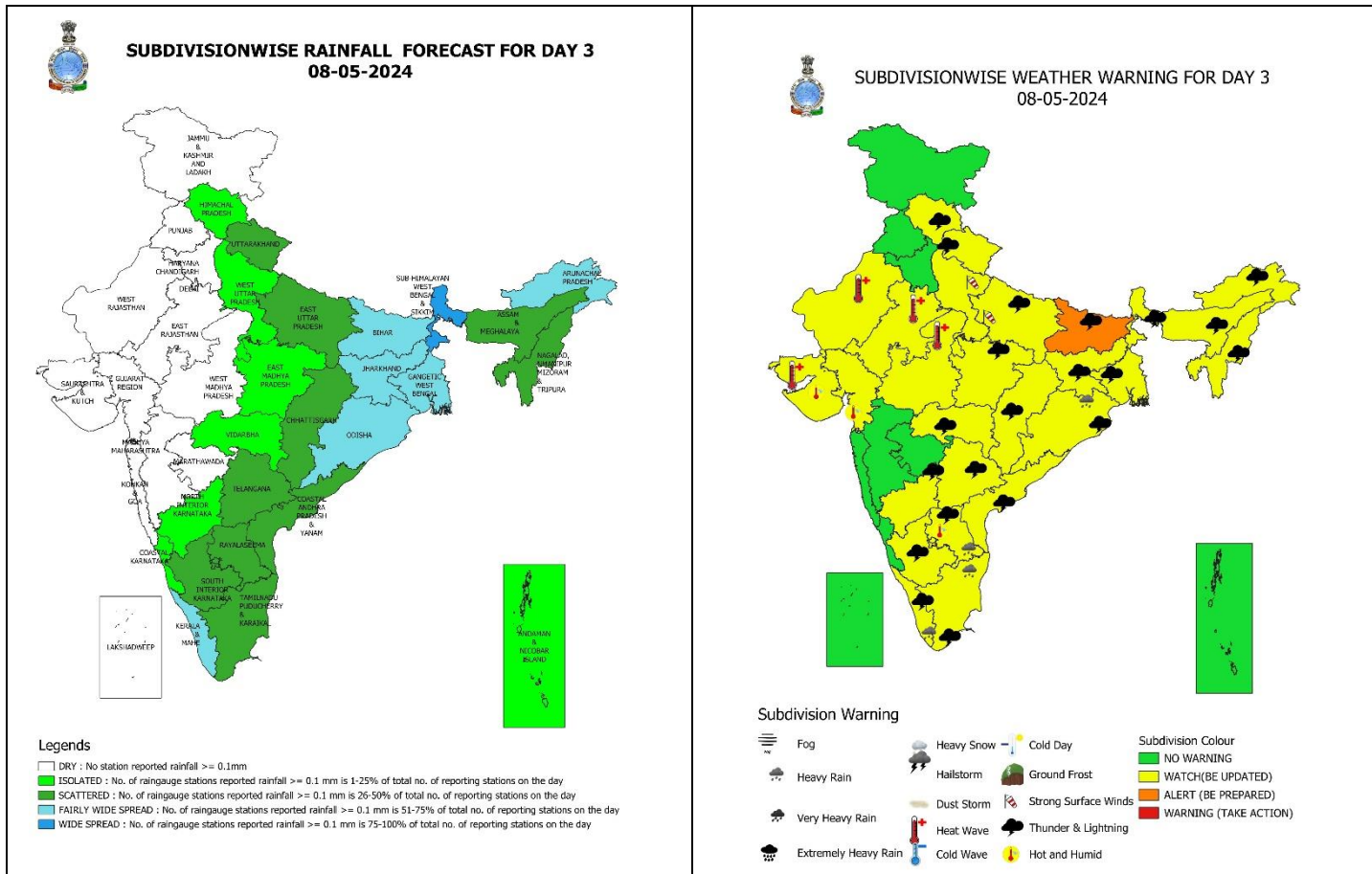
- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph gusting to 70 kmph )** very likely at isolated places over Gangetic West Bengal; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh and Sub-Himalayan West Bengal & Sikkim; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Telangana; **with lightning** at isolated places over Odisha, Arunachal Pradesh, Kerala & Mahe and Coastal Andhra Pradesh & Yanam.
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Gangetic West Bengal.
- ❖ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over Jharkhand, costal Gujarat, Saurashtra & Kutch, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over Vidarbha, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Telangana, Interior Karnataka.
- ❖ **Squally wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** very likely to prevail along and off Odisha, West Bengal & south Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.



**07 May (Day 2):**

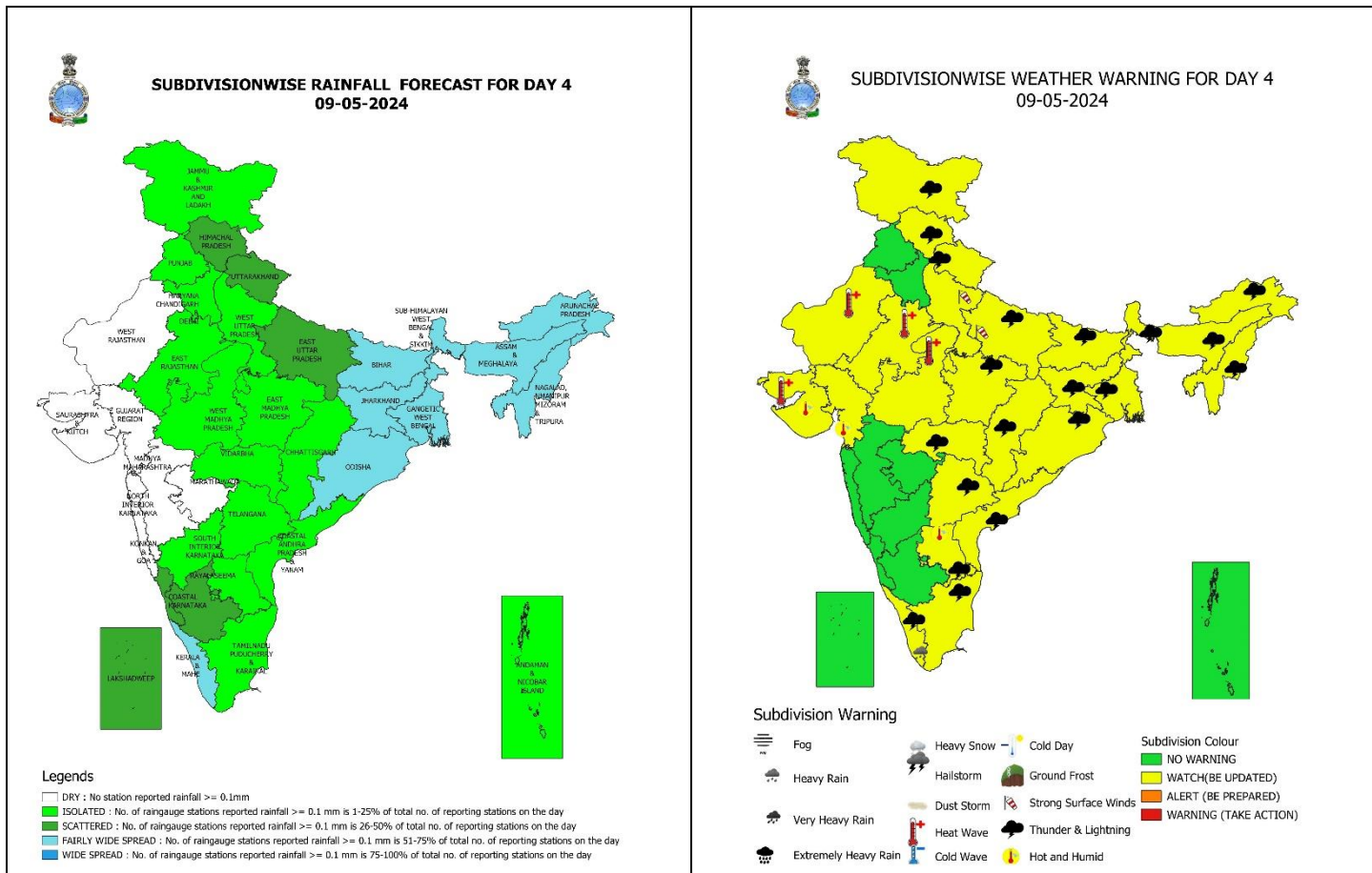
- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph gusting to 70 kmph)** very likely at isolated places over Gangetic West Bengal; **with lightning, gusty winds (speed reaching 40-50 kmph) & hail** at isolated places over Vidarbha, Chhattisgarh, Jharkhand; **with lightning, gusty winds (speed reaching 40-50 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha and Telangana; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, East Uttar Pradesh, Marathwada, Tamil Nadu, Puducherry & Karaikal, Interior Karnataka; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya, and Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ **Heavy rainfall** very likely at isolated places over Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- ❖ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over costal Gujarat, Saurashtra & Kutch, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over West Rajasthan, Saurashtra & Kutch and Interior Karnataka.
- ❖ **Squally wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** very likely to prevail along and off Odisha, West Bengal & south Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.





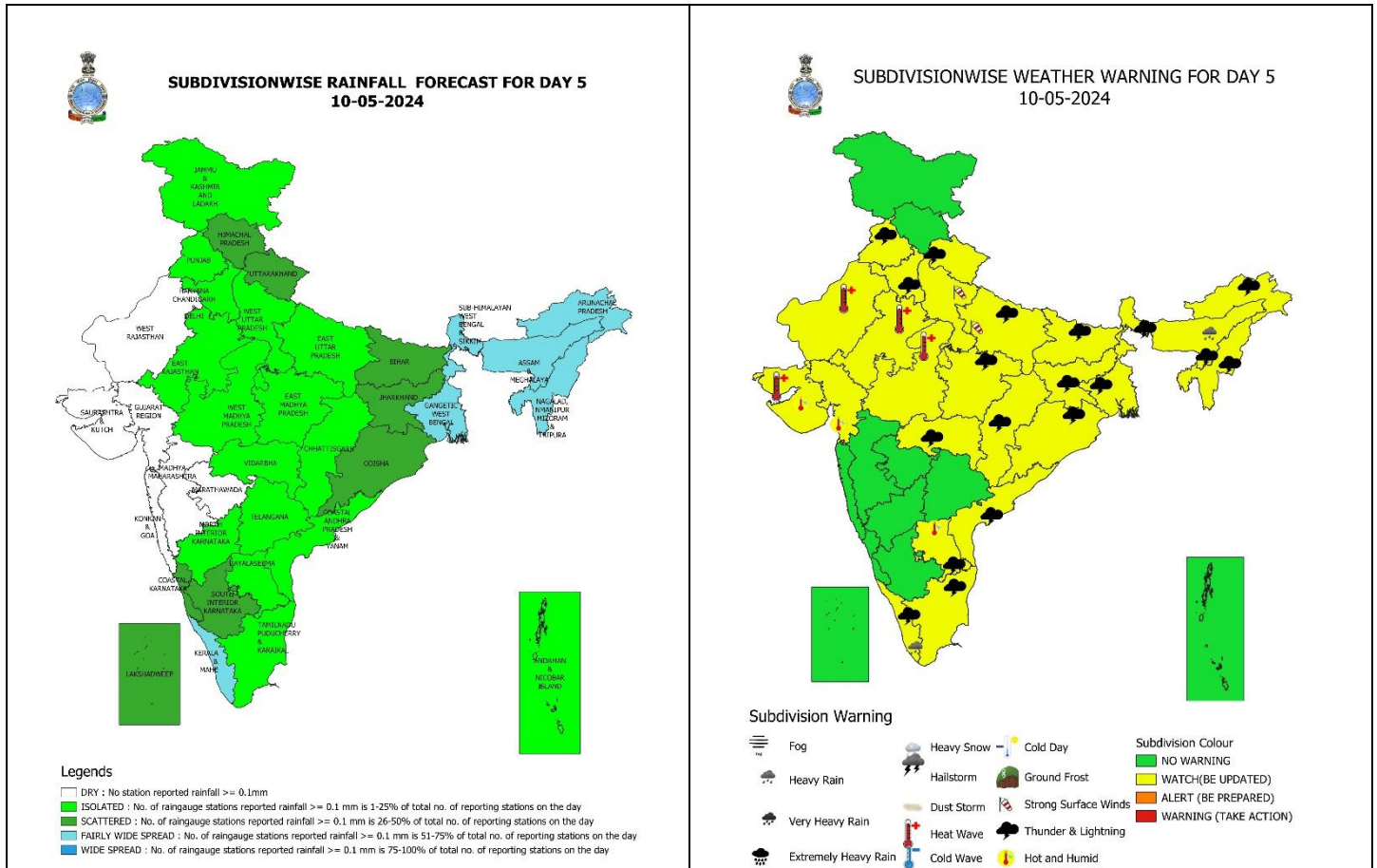
## 08 May (Day 3):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha and Telangana; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, Punjab, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Interior Karnataka; **with lightning** at isolated places over Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.
- ❖ **Heavy rainfall** very likely at isolated places over Odisha, Kerala & Mahe and Rayalaseema.
- ❖ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over costal Gujarat, Saurashtra & Kutch and Rayalaseema.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over Rajasthan, West Madhya Pradesh and Saurashtra & Kutch.
- ❖ **Squally wind (speed 45 kmph to 55 kmph gusting to 65 kmph)** very likely to prevail along and off Odisha and West Bengal coasts. Fishermen are advised not to venture into these areas.



**09 May (Day 4):**

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places likely over Jharkhand, Odisha and Rayalaseema; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, East Uttar Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Bihar, Odisha, , Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Telangana; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, East Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.
- ❖ **Heavy rainfall** likely at isolated places over Kerala & Mahe.
- ❖ **Strong surface winds (25-35 kmph)** likely to prevail over Uttar Pradesh.
- ❖ **Hot and humid weather** likely to prevail over costal Gujarat, Saurashtra & Kutch and Rayalaseema.
- ❖ **Heat wave conditions** likely to prevail in isolated pockets over Rajasthan, West Madhya Pradesh and Saurashtra & Kutch.

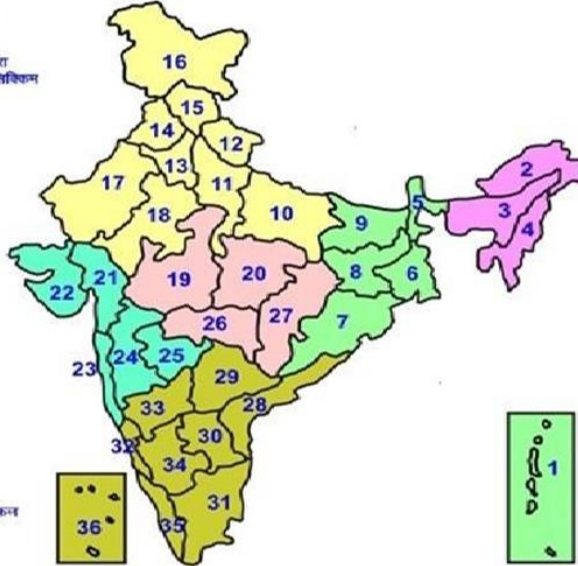


## 10 May (Day 5):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Jharkhand, Odisha and Rayalaseema; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, East Uttar Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Bihar, Odisha, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **with lightning** at isolated places over Punjab, Haryana-Chandigarh-Delhi, East Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.
- ❖ **Heavy rainfall** likely at isolated places over Kerala & Mahe and Assam & Meghalaya.
- ❖ **Strong surface winds (25-35 kmph)** likely to prevail over Uttar Pradesh.
- ❖ **Hot and humid weather** likely to prevail over costal Gujarat, Saurashtra & Kutch and Rayalaseema.
- ❖ **Heat wave conditions** likely to prevail in isolated pockets over Rajasthan, West Madhya Pradesh and Saurashtra & Kutch.

## LEGENDS

- 1 अंडमन और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम 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 उत्तराखण्ड
- 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
- 22 सौराष्ट्र
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तमिलनाडु, पुदुचेरी एवं कराईकल
- 31 उत्तर कर्नाटक
- 32 दक्षिण कर्नाटक
- 33 उत्तर कर्नाटक
- 34 दक्षिण 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. Odisha
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. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnada, 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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

## 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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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 colour warning does not mean "Red Alert", Red colour 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 <https://mausam.imd.gov.in> or contact: 011-2434-4599

(Service to the Nation since 1875)