

Friday, May 3, 2024
Time of Issue: 0800 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. Strong southwesterly winds from Bay of Bengal to northeast India are prevailing at lower tropospheric levels. Under their influence:
 - ✓ Fairly widespread to widespread, light to moderate rainfall accompanied with isolated **thunderstorm & lightning & gusty winds (40-50 kmph)** very likely over Arunachal Pradesh, Assam, Meghalaya, Sikkim, Nagaland, Manipur, Mizoram, Tripura during next 4-5 days.
 - ✓ **Isolated heavy to very heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 05th & 06th May and isolated **heavy rainfall** over Sikkim on 05th; Gangetic West Bengal, Tripura and north Tamil Nadu on 07th May.
- ❖ A Western Disturbance seen as a trough in middle & upper tropospheric westerlies roughly along Long. 52°E to the north of Lat. 20°N. Under its influence:
 - ✓ Isolated to scattered light to moderate rainfall/snowfall accompanied with **thunderstorm and lightning** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand and Himachal Pradesh during 03rd-06th May 2024.
 - ✓ Isolated very light/light rainfall very likely over West Uttar Pradesh during 05th-08th; Haryana-Chandigarh-Delhi on 04th & 05th and Punjab, West Rajasthan on 04th May, 2024
 - ✓ **Strong surface winds (30-40 kmph)** very likely to prevail over Uttar Pradesh, south Rajasthan and Haryana & Delhi on 03rd, 05th & 06th May, 2024.
- ❖ Isolated light to moderate rainfall accompanied with **thunderstorm & lightning** likely over Odisha, Gangetic West Bengal during 03rd-05th and increase thereafter with scattered to fairly widespread rainfall during 06th-09th May. Isolated **hailstorm** likely over Odisha today.
- ❖ Isolated to scattered light to moderate rainfall accompanied with **thunderstorm & lightning** likely over Bihar, Jharkhand during 05th-09th May, 2024.
- ❖ Isolated to scattered, light to moderate rainfall accompanied with **thunderstorm & lightning** over Andhra Pradesh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 03rd-08th; and over Telangana and Karnataka during 06th-08th May, 2024.

Maximum temperature observation:

- ❖ Yesterday, maximum temperatures were in the range of 43-46°C in some parts of Odisha and Rayalaseema; in isolated pockets of Telangana, Coastal Andhra Pradesh and Tamil Nadu; in the range of 40-43°C over many parts of Gangetic West Bengal; in some parts of Vidarbha, Madhya Maharashtra, Marathwada and Gujarat; in isolated pockets of Sub-Himalayan West Bengal, Jharkhand, Chhattisgarh, West Madhya Pradesh and North Interior Karnataka. These are above normal by 4-7°C in some parts of West Bengal and Tamil Nadu; in isolated pockets of Assam & Meghalaya, north Odisha, east Bihar, Coastal Andhra Pradesh, Telangana, Rayalaseema and South Interior Karnataka.

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

- ❖ **Maximum temperatures in the range of 44-47°C likely to continue over Gangetic West Bengal, East Jharkhand, north Odisha and Rayalaseema till 03rd May and decrease thereafter.**
- ❖ **Heat Wave to severe heat wave conditions** very likely to prevail in many/some places over Gangetic West Bengal; in isolated pockets of Bihar on 03rd & 04th May and reduce in intensity thereafter with heat wave conditions in isolated pockets over the region on 05th May, 2024.
- ❖ **Heat wave conditions** very likely in isolated pockets over Telangana, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Gujarat State, Odisha during next 3 days; Konkan, Madhya Maharashtra and Marathwada on 03rd & 04th; Vidarbha on 04th & 05th and over Tamil Nadu, Puducherry & Karaikal on 03rd & 04th May.
- ❖ **Hot and humid weather** very likely to prevail over Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during next 5 days and Konkan on 05th May, 2024.
- ❖ **Warm night** very likely to prevail over Odisha, Rayalaseema, South Interior Karnataka on 03rd May 2024.

* 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.

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Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **Assam & Meghalaya:** Haflong-3, Silchar & Lumding-2 each; **Arunachal Pradesh:** Pasighat-1; **Tripura:** Kailashahar-3; **Manipur:** Imphal-2.
- ❖ Yesterday, **Heat Wave to severe heat wave conditions** prevailed in many parts of Gangetic West Bengal and in some parts of Tamil Nadu and **Heat wave conditions** in isolated pockets of Sub-Himalayan West Bengal, Bihar, Odisha, Telangana, Coastal Andhra Pradesh and Rayalaseema. **Heat wave to severe heat wave conditions** have been prevailing over Odisha since 15th, Gangetic West Bengal since 17th, Jharkhand & Sub-Himalayan West Bengal, Rayalaseema since 24th and Bihar since 26th April, 2024.
- ❖ **Yesterday, Warm night conditions** prevailed in isolated places over Odisha, Gangetic West Bengal and Rayalaseema.
- ❖ **Minimum Temperature Departures (as on 02-05-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Gangetic West Bengal, Rayalaseema and Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at most places over Tamil Nadu, Puducherry & Karaikal; at a few places over South Interior Karnataka; at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Bihar, Jharkhand, Coastal Karnataka, Coastal Andhra Pradesh & Yanam. These were **markedly below normal (-5.1°C or less)** at many places over Punjab, Himachal Pradesh and Haryana-Chandigarh-Delhi; at a few places over Uttarakhand and West Rajasthan; at isolated places over West Uttar Pradesh and Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and East Rajasthan; at a few places over East Uttar Pradesh; at isolated places over Gujarat state; **below normal (-1.6°C to -3.0°C)** at many places over Vidarbha; at a few places over Saurashtra & Kutch; at isolated places over Chhattisgarh, Madhya Maharashtra and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 15.3°C was reported at **Hissar (Haryana)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 02-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at a few places over West Bengal & Sikkim; at isolated places over Bihar, Assam & Meghalaya, Odisha and Tamil Nadu, Puducherry & Karaikal; **appreciably above normal (3.1°C to 5.0°C)** at many places over Kerala & Mahe; at a few places over Rayalaseema; at isolated places over Jharkhand, Telangana, Coastal Andhra Pradesh & Yanam and South Interior Karnataka; **above normal (1.6°C to 3.0°C)** at most places over North Interior Karnataka; at many places over Arunachal Pradesh; at a few places over Madhya Maharashtra; at isolated places Marathwada and Coastal Karnataka. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Rajasthan and Nagaland, Manipur, Mizoram & Tripura; **below normal (-1.6°C to -3.0°C)** at most places over Punjab, Haryana-Chandigarh-Delhi and West Uttar Pradesh; at many places over Himachal Pradesh, Uttarakhand and Madhya Pradesh; at a few places over East Uttar Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Vidarbha and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 46.2°C was reported at **Nandyal (Rayalaseema)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Western Disturbance as a trough in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 52°E to the north of Lat. 20°N.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The trough from south Chhattisgarh to south Tamil Nadu across Telangana & Rayalaseema at 0.9 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 10th May, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Rise in maximum temperatures by 4-6 °C very likely over many parts of Northwest India during next 4-5 days.
- ❖ No significant change in maximum temperatures very likely over Maharashtra during next 24 hours and rise by 2-3°C thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 10th-12th May, 2024)

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

Table-1

| 7 Days Rainfall Forecast | | | | | | | | |
|--------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| S. No. | Subdivision | 03-May | 04-May | 05-May | 06-May | 07-May | 08-May | 09-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 | FWS | FWS | WS | WS | FWS | FWS | FWS |
| 3 | ASSAM & MEGHALAYA | FWS | FWS | WS | WS | FWS | FWS | FWS |
| 4 | NAGALAND, MANIPUR, MIZORAM & TRIPURA | FWS | FWS | WS | WS | FWS | SCT | FWS |
| 5 | SUB-HIMALAYAN WEST BENGAL & SIKKIM | ISOL | SCT | FWS | WS | WS | FWS | FWS |
| 6 | GANGETIC WEST BENGAL | ISOL | ISOL | ISOL | FWS | FWS | FWS | FWS |
| 7 | ODISHA | ISOL | ISOL | ISOL | SCT | FWS | FWS | FWS |
| 8 | JHARKHAND | DRY | DRY | ISOL | ISOL | SCT | FWS | FWS |
| 9 | BIHAR | DRY | ISOL | ISOL | ISOL | SCT | SCT | SCT |
| 10 | EAST UTTAR PRADESH | DRY | DRY | DRY | ISOL | SCT | SCT | SCT |
| 11 | WEST UTTAR PRADESH | DRY | DRY | ISOL | ISOL | ISOL | ISOL | ISOL |
| 12 | UTTARAKHAND | DRY | ISOL | SCT | ISOL | ISOL | ISOL | SCT |
| 13 | HARYANA CHANDIGARH & DELHI | DRY | ISOL | ISOL | DRY | ISOL | ISOL | SCT |
| 14 | PUNJAB | DRY | ISOL | DRY | DRY | DRY | ISOL | ISOL |
| 15 | HIMACHAL PRADESH | ISOL | SCT | SCT | ISOL | ISOL | ISOL | ISOL |
| 16 | JAMMU & KASHMIR AND LADAKH | SCT | SCT | ISOL | ISOL | ISOL | ISOL | ISOL |
| 17 | WEST RAJASTHAN | DRY | ISOL | DRY | DRY | DRY | DRY | DRY |
| 18 | EAST RAJASTHAN | DRY | DRY | DRY | DRY | DRY | DRY | ISOL |
| 19 | WEST MADHYA PRADESH | DRY | DRY | ISOL | ISOL | DRY | DRY | ISOL |
| 20 | EAST MADHYA PRADESH | DRY | DRY | 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 | DRY |
| 24 | MADHYA MAHARASHTRA | DRY | DRY | DRY | DRY | ISOL | ISOL | ISOL |
| 25 | MARATHAWADA | DRY | DRY | DRY | ISOL | ISOL | ISOL | ISOL |
| 26 | VIDARBHA | DRY | DRY | DRY | ISOL | ISOL | ISOL | ISOL |
| 27 | CHHATTISGARH | DRY | DRY | ISOL | ISOL | ISOL | ISOL | ISOL |
| 28 | COASTAL ANDHRA PRADESH & YANAM | ISOL | ISOL | ISOL | ISOL | SCT | SCT | ISOL |
| 29 | TELANGANA | DRY | DRY | DRY | ISOL | SCT | SCT | ISOL |
| 30 | RAYALASEEMA | ISOL | ISOL | ISOL | ISOL | SCT | SCT | ISOL |
| 31 | TAMILNADU PUDUCHERRY & KARAIKAL | ISOL | ISOL | ISOL | ISOL | SCT | SCT | SCT |
| 32 | COASTAL KARNATAKA | DRY | DRY | DRY | ISOL | ISOL | ISOL | ISOL |
| 33 | NORTH INTERIOR KARNATAKA | DRY | DRY | DRY | ISOL | ISOL | ISOL | ISOL |
| 34 | SOUTH INTERIOR KARNATAKA | DRY | DRY | DRY | ISOL | ISOL | ISOL | SCT |
| 35 | KERALA & MAHE | ISOL | ISOL | ISOL | SCT | FWS | SCT | SCT |
| 36 | LAKSHADWEEP | DRY | DRY | DRY | DRY | 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 |

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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

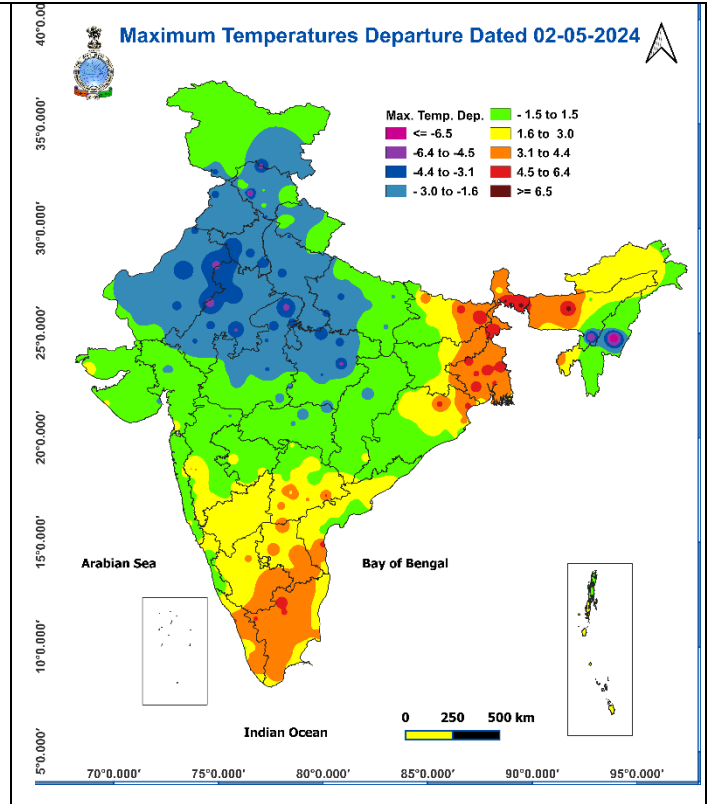
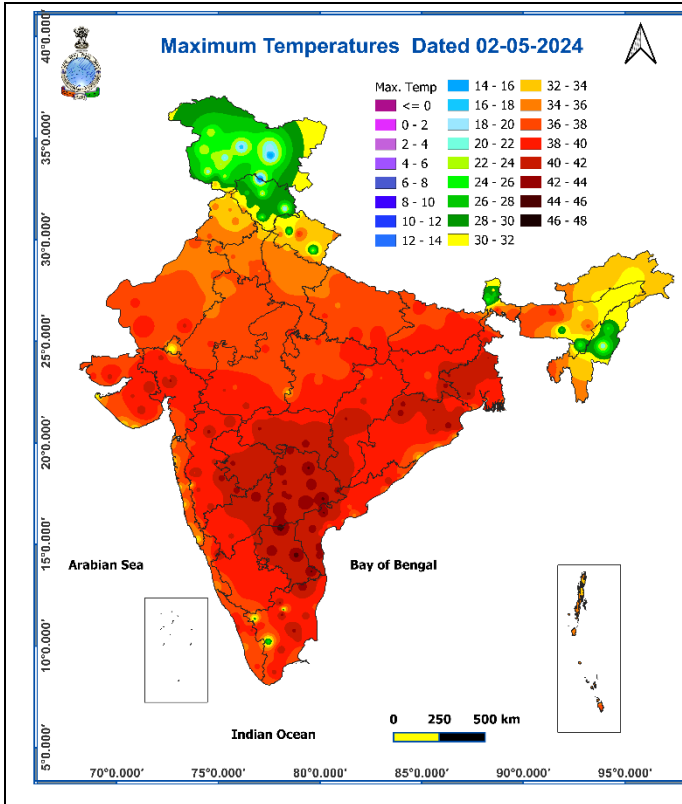


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

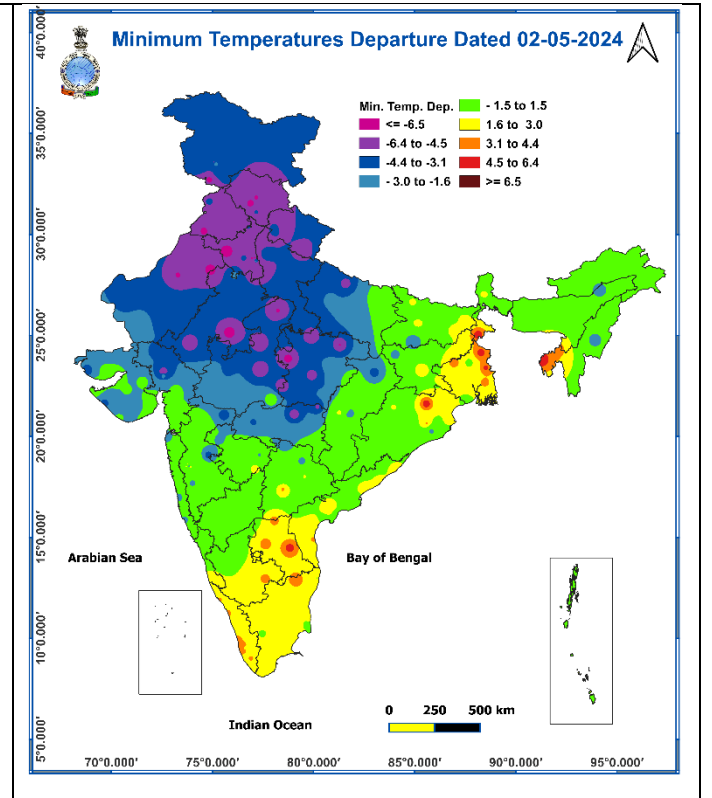
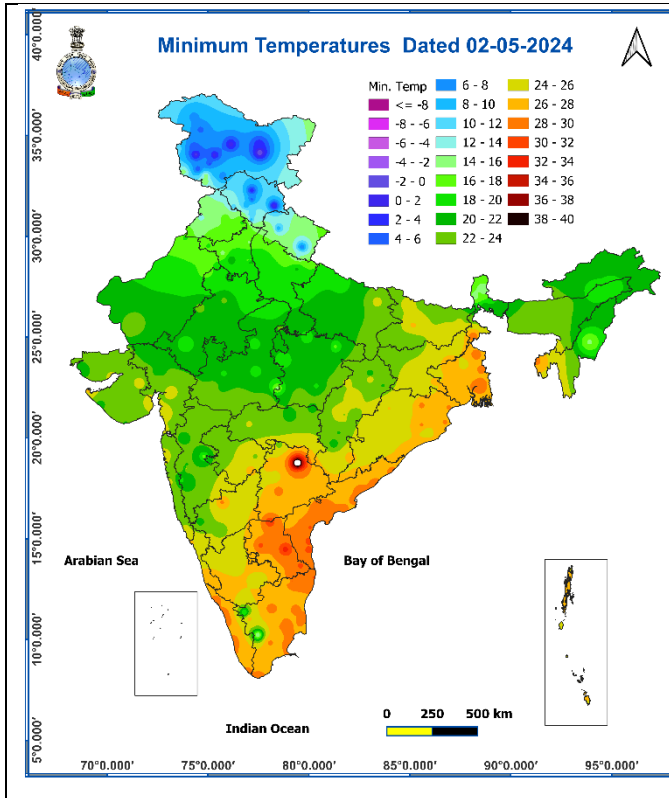
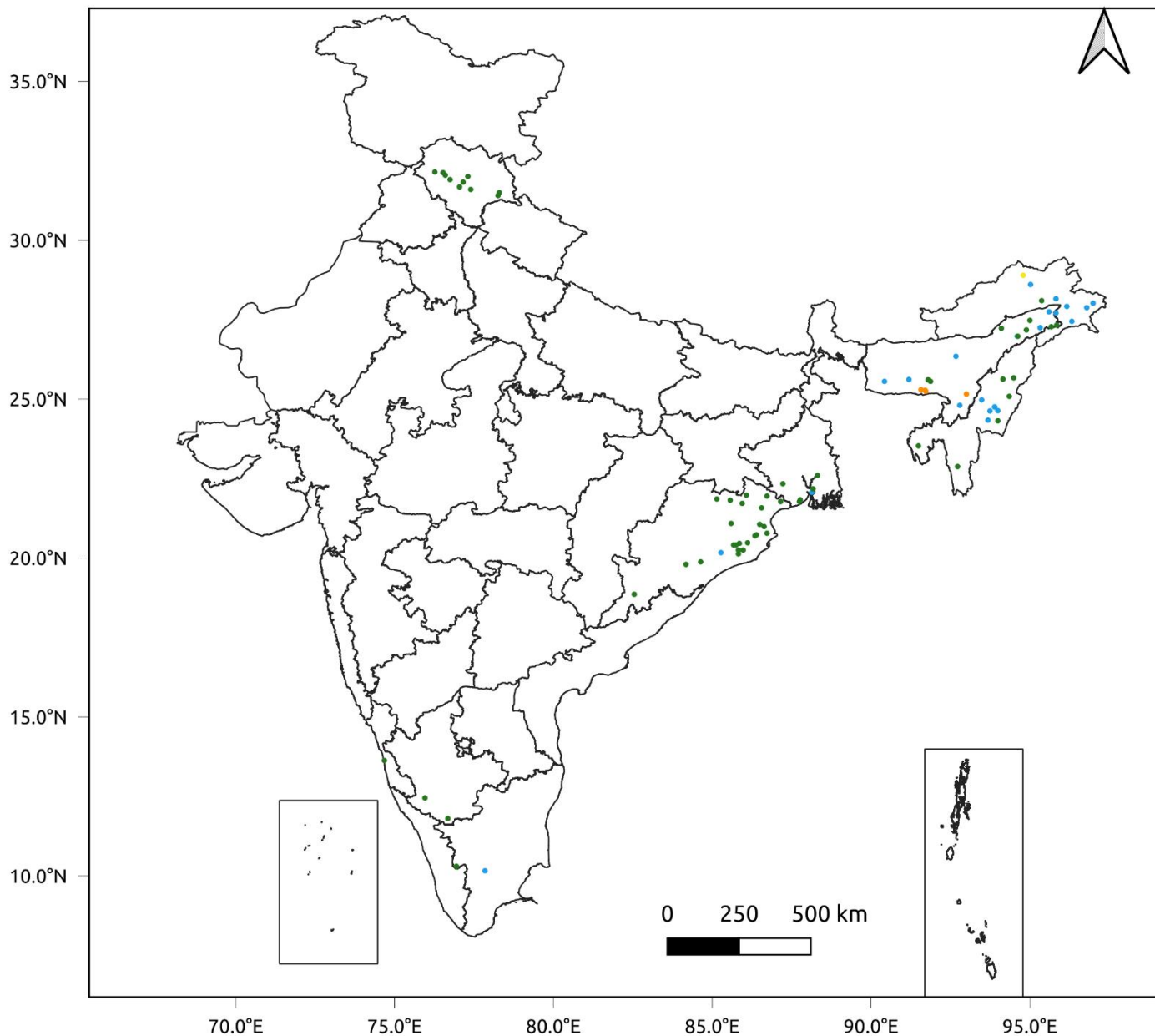


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

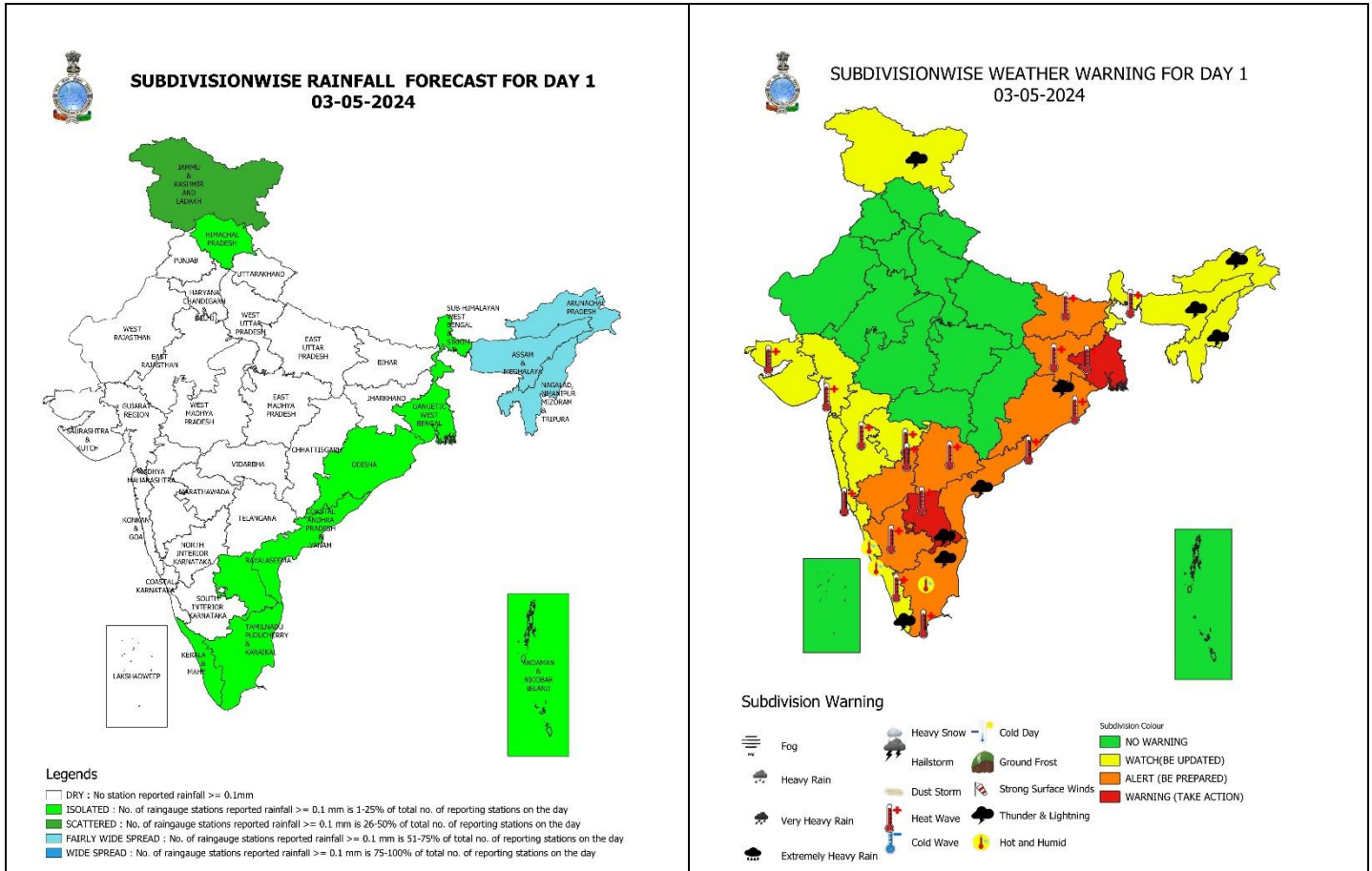


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 1-5-2024 to 0830 IST of 2-5-2024



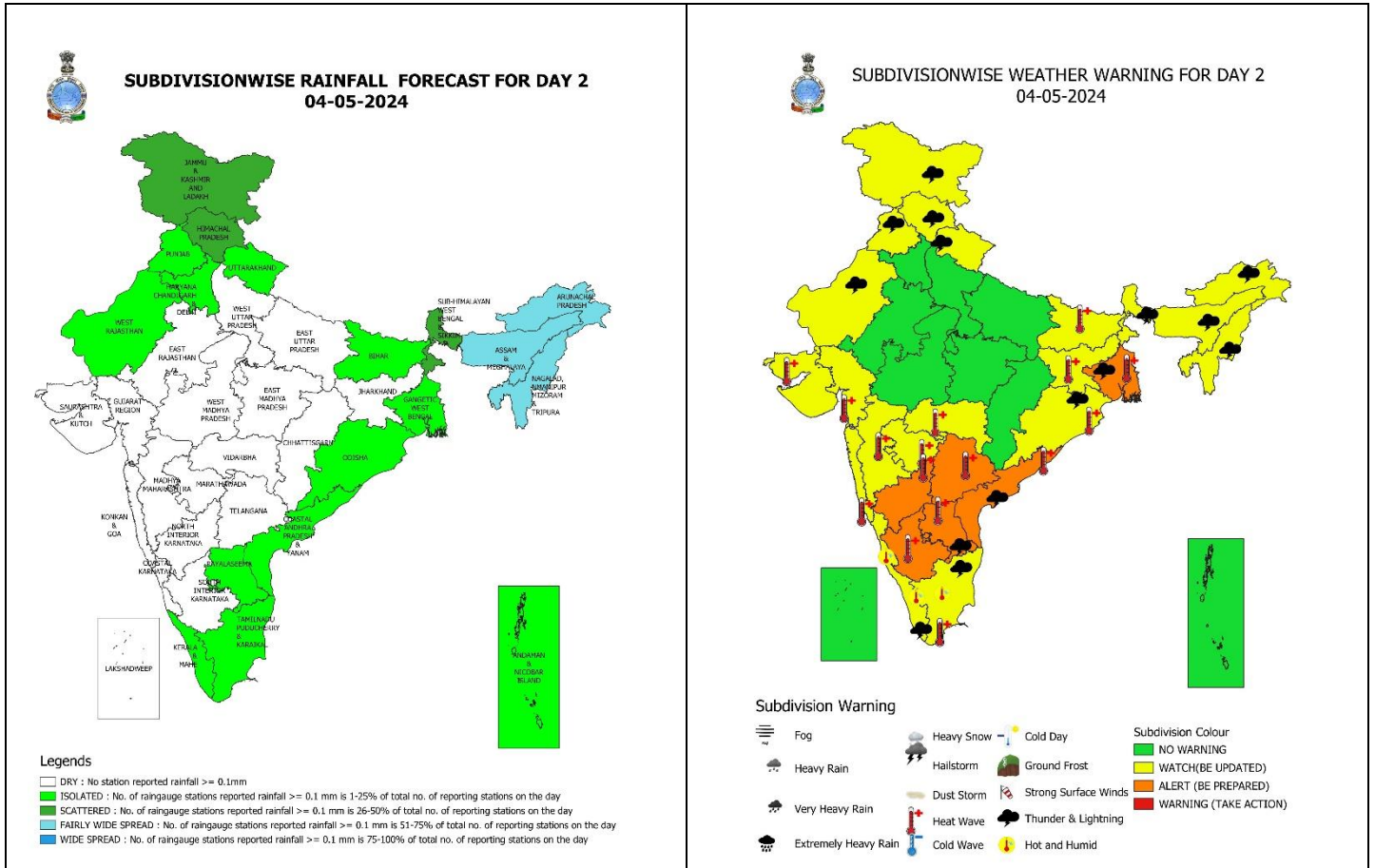
Legends

- 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 (≥ 204.5 mm)



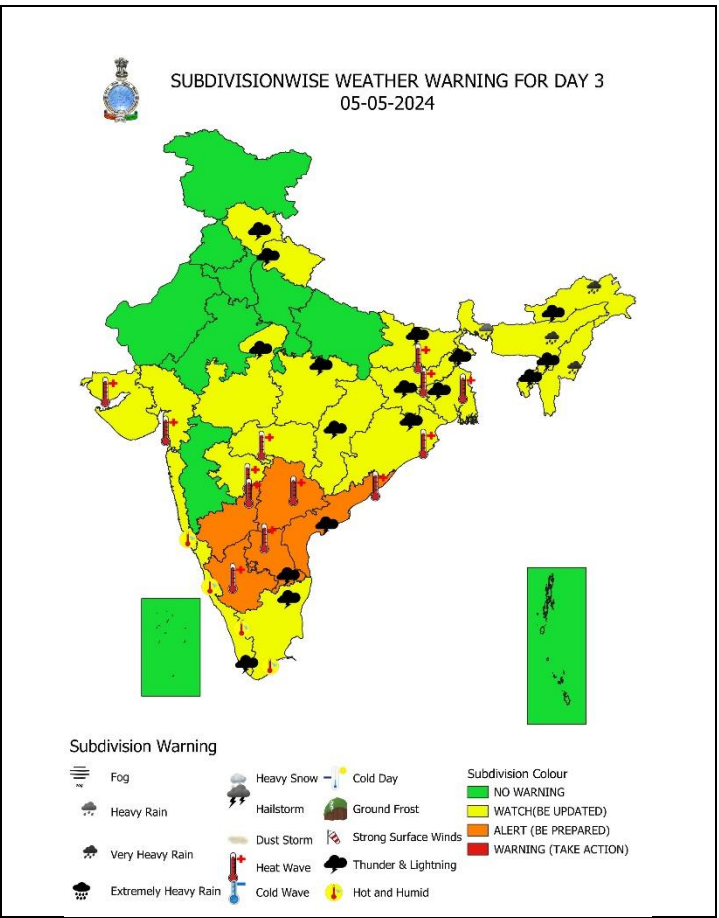
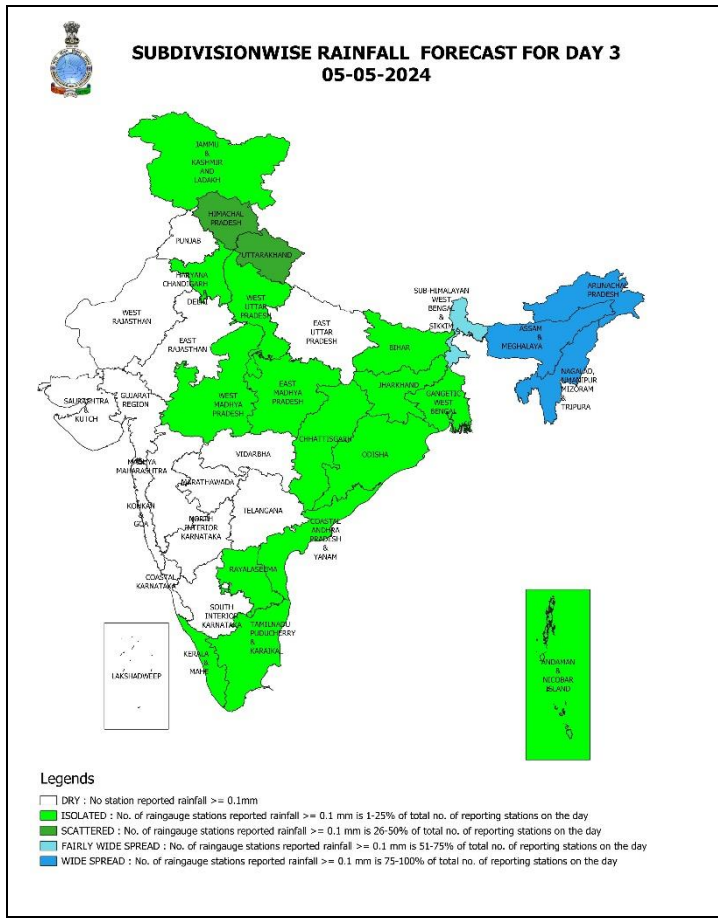
03 May (Day 1):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Hot and humid weather** very likely to prevail over Kerala & Mahe, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in some parts over Gangetic West Bengal; in isolated pockets over east Bihar; **heat wave conditions** in some parts over east Jharkhand; in isolated pockets over Sub-Himalayan West Bengal, Odisha, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, south Coastal Andhra Pradesh, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Odisha, Rayalaseema and South Interior Karnataka.
- ❖ **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off south Andhra Pradesh-Odisha-adjoining West Bengal coasts. Fishermen are advised not to venture into these areas.



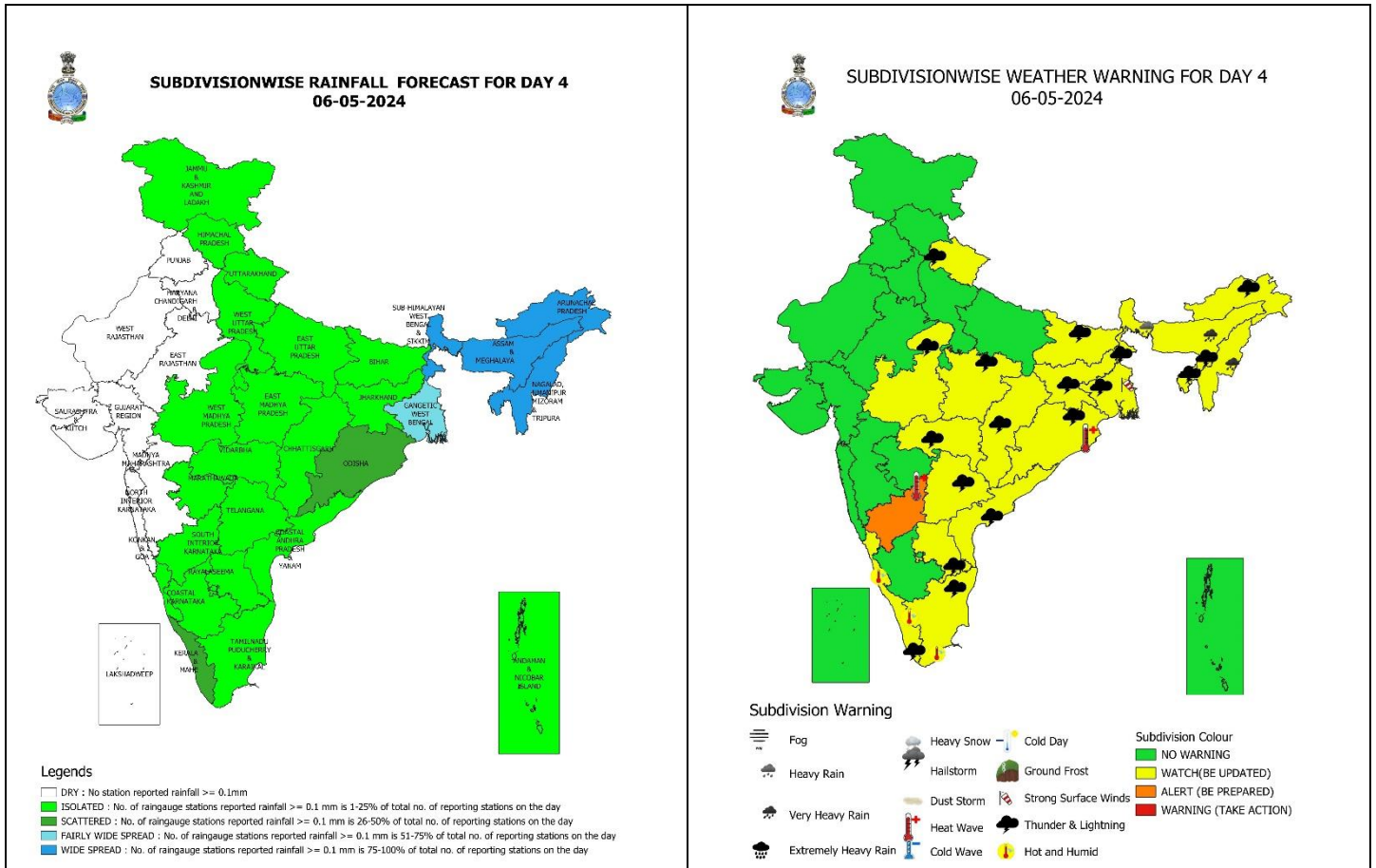
04 May (Day 2):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 30-40 kmph)** very likely to isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema; **with lightning** at isolated places over Himachal Pradesh, Punjab, Gangetic West Bengal, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ **Hot and humid weather** very likely to prevail over Kerala & Mahe, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in some parts over Gangetic West Bengal; **heat wave conditions** in isolated pockets over Vidarbha, east Bihar, east Jharkhand, Odisha, Konkan, Madhya Maharashtra, Marathwada, Gujarat state, Tamil Nadu, Puducherry & Karaikal, south Coastal Andhra Pradesh, Rayalaseema, Telangana and Interior Karnataka.
- ❖ **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off south Andhra Pradesh-Odisha-adjoining West Bengal coasts. Fishermen are advised not to venture into these areas.



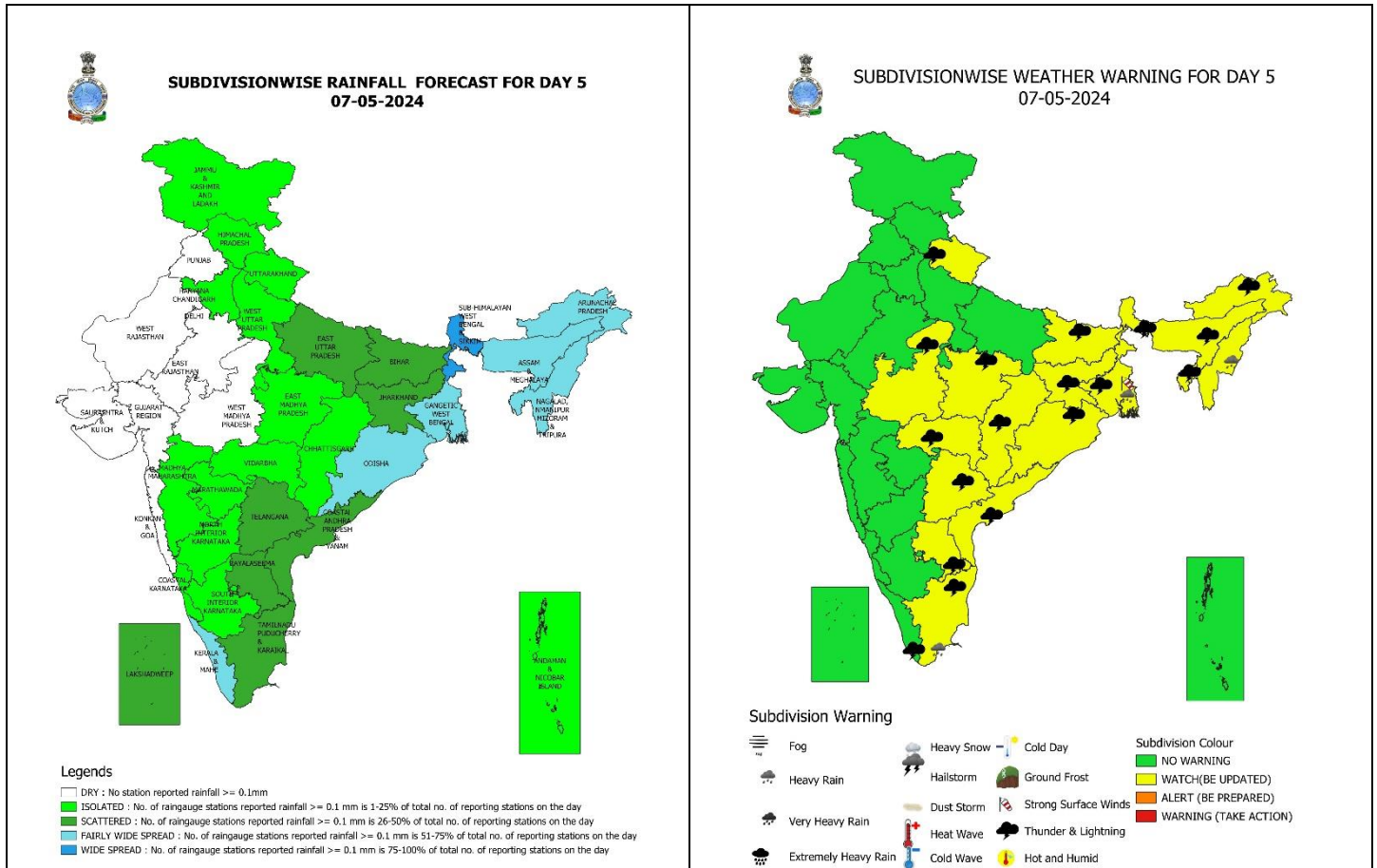
05 May (Day 3):

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



06 May (Day 4):

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

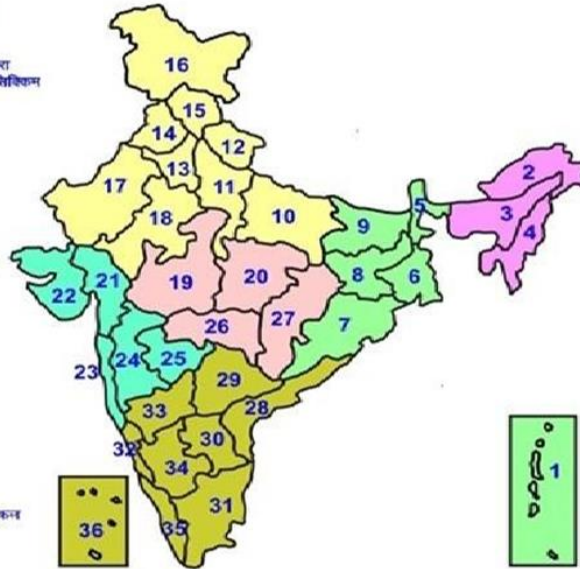


07 May (Day 5):

- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph)** 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, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, West Madhya Pradesh; **with lightning** at isolated places over West Madhya Pradesh, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana.
- ❖ **Heavy rainfall** at isolated places over Gangetic West Bengal, Tripura and north Tamil Nadu.
- ❖ **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off Odisha coast and adjoining West Bengal coast. Fishermen are advised not to venture into these areas.

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 उत्तराखंड
- 13 हरियाणा, चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात
- 22 सौराष्ट्र
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तेलंगाना
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 आंतरिक उत्तरी कर्नाटक
- 33 आंतरिक दक्षिणी कर्नाटक
- 34 केरल एवं माहे
- 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

| |
|--------------------------------|
| 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 |

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 |



Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *

Rain/ Snow *



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 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)