

Thursday, May 2, 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 Bangladesh and a trough runs from Bihar to Nagaland in lower tropospheric levels. Another cyclonic circulation lies over northeast Assam in lower tropospheric levels. Strong southwesterly winds from Bay of Bengal to northeast India are prevailing. Under their influence:
 - ✓ Fairly widespread to widespread light to moderate rainfall/snowfall accompanied with isolated **thunderstorm & lightning & gusty winds (30-50 kmph)** very likely over Arunachal Pradesh, Assam, Meghalaya, Sikkim, Nagaland, Manipur, Mizoram, Tripura during next 5 days.
 - ✓ **Isolated heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya on 02nd and over Nagaland, Manipur, Mizoram & Tripura on 02nd & 03rd; with isolated **very heavy rainfall** over Arunachal Pradesh and south Assam, Meghalaya, Mizoram & Tripura on 02nd May 2024.
- ❖ A fresh Western Disturbance seen as a trough in middle tropospheric westerlies roughly along Long. 42°E to the north of Lat. 26°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 accompanied with **thunderstorm and lightning** very likely over West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, Rajasthan during 04th-06th May, 2024
 - ✓ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh, Bihar and Haryana, Chandigarh & Delhi on 02nd & 03rd May, 2024.
- ❖ Rainfall activity is likely over south peninsular India & East India with isolated to scattered, light to moderate rainfall accompanied with **thunderstorm & lightning** over Odisha during next 7 days with possibility of hailstorm over coastal Odisha today and over Bihar, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe during 05th-08th May, 2024.

Maximum temperature observation:

- ❖ Yesterday, maximum temperatures were in the range of 44-46°C in some parts of Odisha; in isolated pockets of Telangana, Coastal Andhra Pradesh & Rayalaseema; in the range of 42-44°C over many parts of Gangetic West Bengal; in some parts of Vidarbha; in isolated pockets of Chhattisgarh, southwest Madhya Pradesh, Madhya Maharashtra, North Interior Karnataka, and Tamil Nadu, Puducherry & Karaikal; in the range of 40-42°C over many parts of Bihar & Marathwada; in some parts of East Uttar Pradesh, Jharkhand, East Madhya Pradesh & Gujarat state; in isolated pockets of Sub-Himalayan West Bengal & southwest Uttar Pradesh. These were above normal by 5-7°C in many parts of Gangetic West Bengal; in isolated pockets of Sub-Himalayan West Bengal, Bihar & Tamil Nadu and above normal by 2-4°C in many parts of Odisha, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka; in some parts of Saurashtra & Kutch; in isolated pockets of East Uttar Pradesh, Jharkhand, Chhattisgarh, Gujarat Region & Madhya Maharashtra.

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 places over Gangetic West Bengal; some parts of Odisha, Bihar; in isolated pockets of Sub-Himalayan West Bengal, Jharkhand on 02nd May and reduce in intensity thereafter with heat wave conditions in isolated pockets over the region during subsequent 3-4 days.
- ❖ **Heat Wave to severe heat wave conditions** very likely to prevail in isolated pockets over Rayalaseema during next 2 days and heat wave conditions during subsequent 2-3 days.
- ❖ **Heat wave conditions** very likely in isolated pockets over Telangana, Interior Karnataka, Coastal Andhra Pradesh & Yanam during next 4-5 days; over Kerala on 02nd and over Tamil Nadu on 02nd & 03rd May.
- ❖ **Heat wave conditions** very likely in isolated pockets over Konkan, Madhya Maharashtra, Gujarat State during 02nd-06th and over Marathwada during 03rd-06th May.
- ❖ **Hot and humid weather** very likely to prevail over Coast Karnataka and Kerala & Mahe during next 5 days.
- ❖ **Warm night** very likely to prevail over Chhattisgarh on 02nd & 03rd; Madhya Maharashtra and Marathwada during 03rd-06th and Odisha & Gangetic West Bengal on 02nd May.

* 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 Himachal Pradesh, Assam & Meghalaya, Manipur, Gangetic West Bengal and Odisha.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm):
Odisha: Khordha-3, Bhubaneshwar-1.
- ❖ Yesterday, **Heat Wave conditions** at a few places with **severe heat wave conditions** in isolated pockets prevailed over Bihar, West Bengal and Tamil Nadu. **Heat wave conditions** prevailed in isolated places over Jharkhand, 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.**
- ❖ **Minimum Temperature Departures (as on 01-05-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Gangetic West Bengal; at isolated places over Madhya Maharashtra and Odisha; **above normal (1.6°C to 3.0°C)** at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; at a few places over Bihar, Jharkhand, Telangana and Kerala & Mahe; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Karnataka and Konkan & Goa. These were **markedly below normal (-5.1°C or less)** at many places over Punjab; at isolated places over Haryana-Chandigarh-Delhi and West Rajasthan; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand and West Uttar Pradesh; at a few places over Himachal Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over East Uttar Pradesh; at a few places over Madhya Pradesh; at isolated places over Gujarat state, Vidarbha and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 13.6°C** was reported at **Amritsar (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 01-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at most places over Gangetic West Bengal; at a few places over Bihar and Jharkhand; **appreciably above normal (3.1°C to 5.0°C)** at many places over Sub-Himalayan West Bengal & Sikkim, and Tamil Nadu; at isolated places Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha and Coastal Andhra Pradesh & Yanam; **above normal (1.6°C to 3.0°C)** at many places over Telangana and Interior Karnataka; at a few places over Kerala & Mahe and Coastal Karnataka; at isolated places Arunachal Pradesh, Chhattisgarh, Madhya Maharashtra, Konkan & Goa, Saurashtra & Kutch and East Uttar Pradesh. These were **markedly below normal (-5.1°C or less)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab and Haryana-Chandigarh-Delhi; at a few places over West Rajasthan; at isolated places over East Rajasthan **appreciably below normal (-3.1°C to -5.0°C)** at few places over West Madhya Pradesh; at isolated places over Uttarakhand; **below normal (-1.6°C to -3.0°C)** at isolated places over West Uttar Pradesh, East Madhya Pradesh, and Vidarbha and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 46.2°C** was reported at **Rentachintala (Coastal Andhra Pradesh)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ A fresh Western Disturbance seen as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 42°E to the north of Lat. 26°N.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood extending upto 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Bangladesh extending upto 0.9 km above mean sea level persists.
- ❖ The trough from north Bihar to Nagaland across Sub-Himalayan West Bengal, cyclonic circulation over northeast Bangladesh and south Assam & Meghalaya at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over Southwest Arabian Sea & adjoining equatorial Indian Ocean extending upto 4.5 km above mean sea level persists.
- ❖ The Western Disturbance as a cyclonic circulation over Ladakh & neighbourhood at 5.8 km above mean sea level has moved away east-northeastwards.

Weather Forecast for next 7 days (Upto 0830 hours IST of 09th May, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Rise in maximum temperatures by 2-3 °C very likely over Northwest India during next 3-4 days.
- ❖ No significant change in maximum temperatures very likely over East India during next 24 hours and fall by 2-3°C thereafter.
- ❖ Rise in maximum temperatures by 2-3 °C very likely over Central India during next 2-3 days.
- ❖ No significant change in maximum temperatures very likely over West India 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 09th-11th 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	02-May	03-May	04-May	05-May	06-May	07-May	08-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	WS	WS	FWS	FWS
3	ASSAM & MEGHALAYA	WS	FWS	FWS	WS	WS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	FWS	FWS	FWS	FWS	SCT	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	SCT	FWS	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	DRY	DRY	ISOL	ISOL	SCT	SCT	SCT
7	ODISHA	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
8	JHARKHAND	DRY	DRY	DRY	ISOL	SCT	SCT	SCT
9	BIHAR	DRY	DRY	ISOL	ISOL	SCT	SCT	SCT
10	EAST UTTAR PRADESH	DRY	DRY	DRY	ISOL	ISOL	SCT	SCT
11	WEST UTTAR PRADESH	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
12	UTTARAKHAND	DRY	DRY	ISOL	SCT	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
15	HIMACHAL PRADESH	DRY	ISOL	FWS	SCT	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	DRY	SCT	SCT	SCT	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	DRY	DRY	DRY	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	DRY	ISOL	ISOL
25	MARATHAWADA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
26	VIDARBHA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
27	CHHATTISGARH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	DRY	DRY	ISOL	ISOL	ISOL	SCT	SCT
29	TELANGANA	DRY	DRY	DRY	ISOL	SCT	SCT	SCT
30	RAYALASEEMA	DRY	DRY	ISOL	ISOL	ISOL	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
32	COASTAL KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA & MAHE	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
36	LAKSHADWEEP	DRY	DRY	DRY	DRY	SCT	FWS	FWS

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

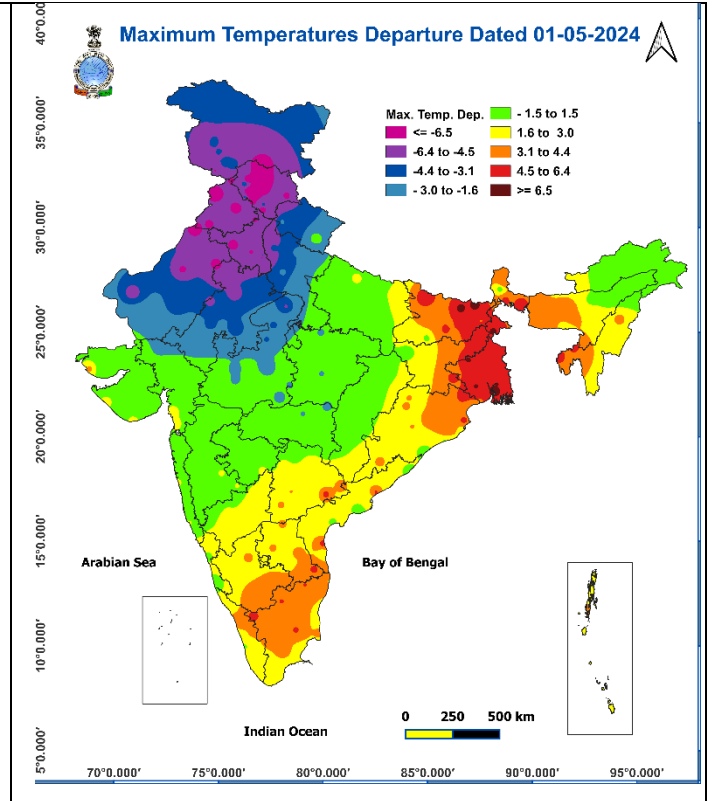
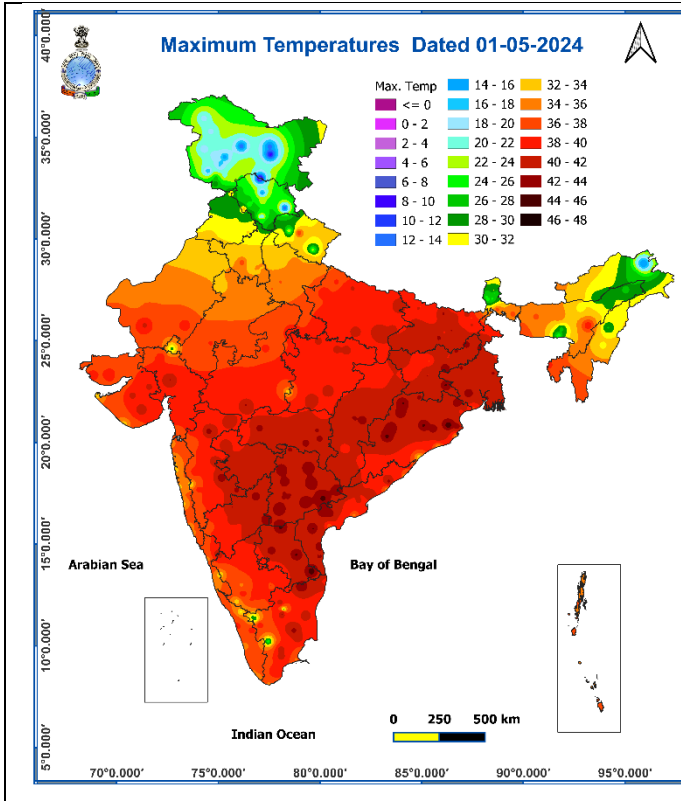


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

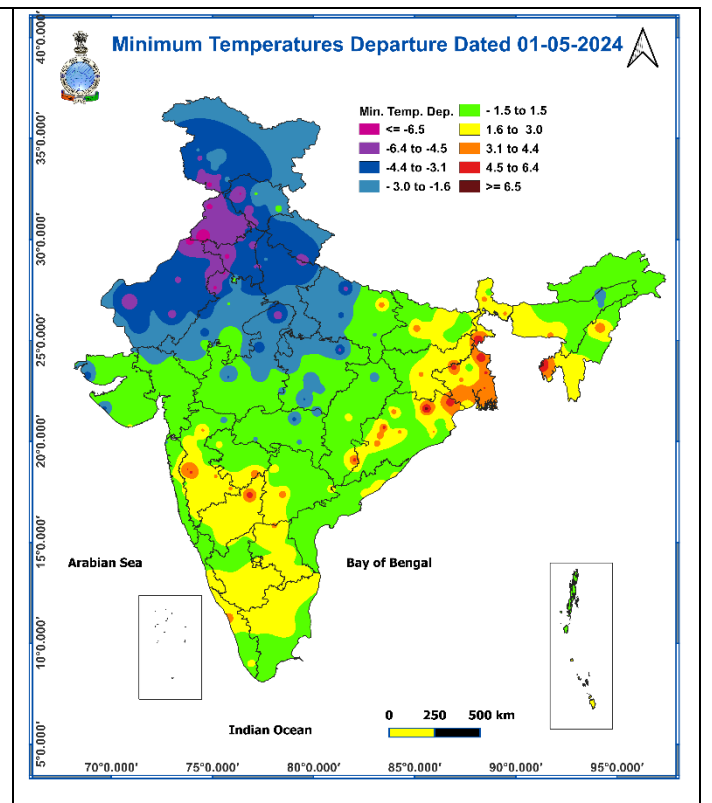
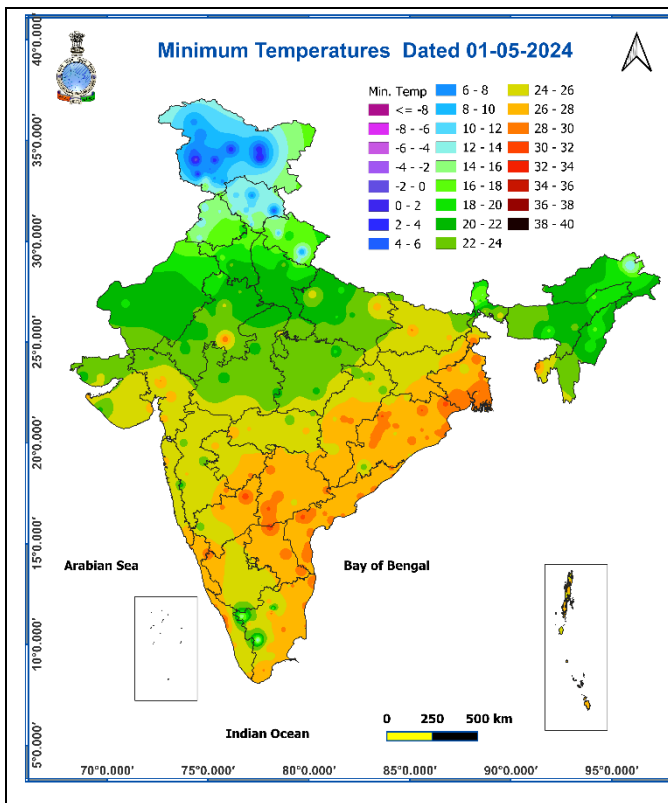
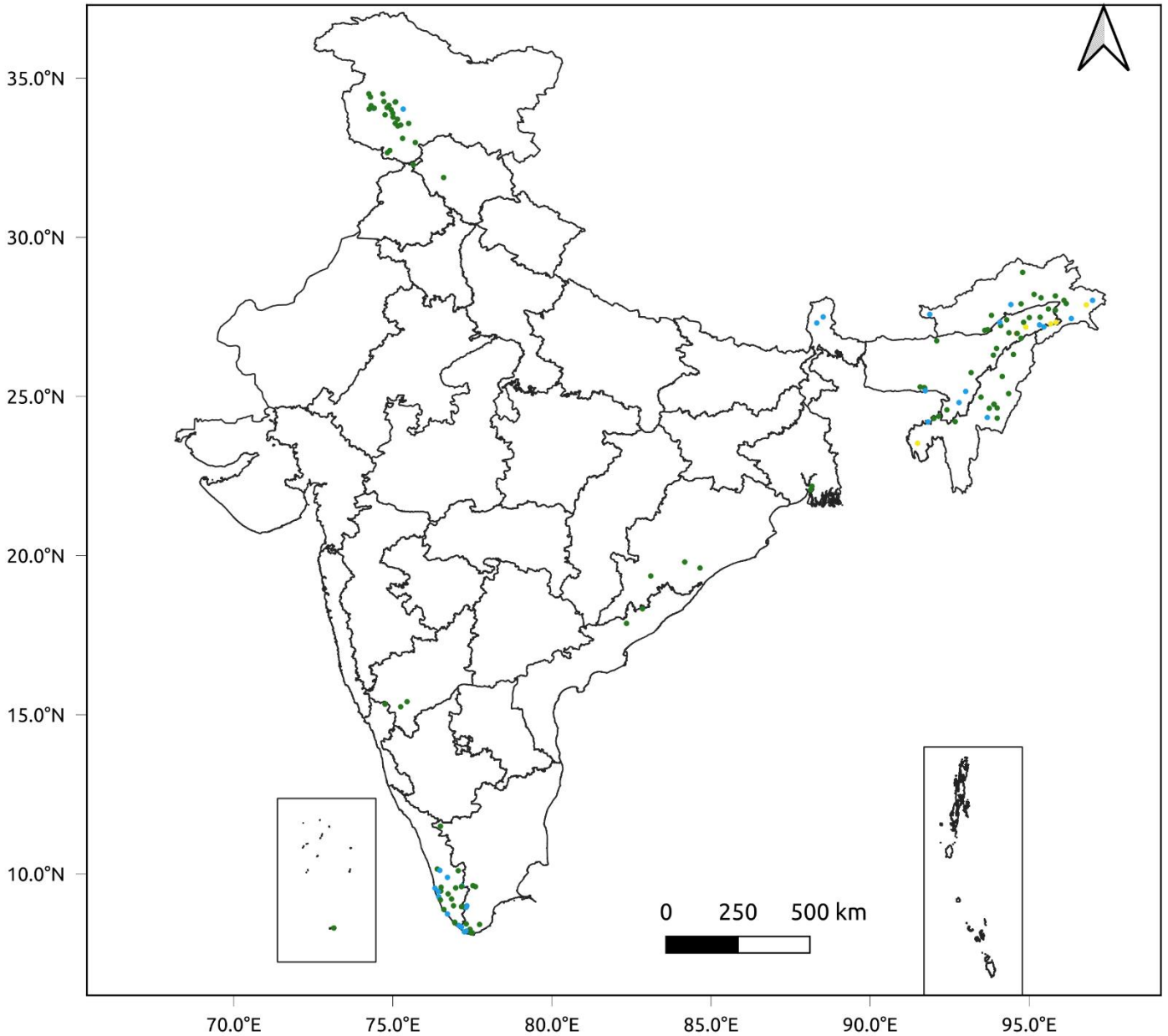


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

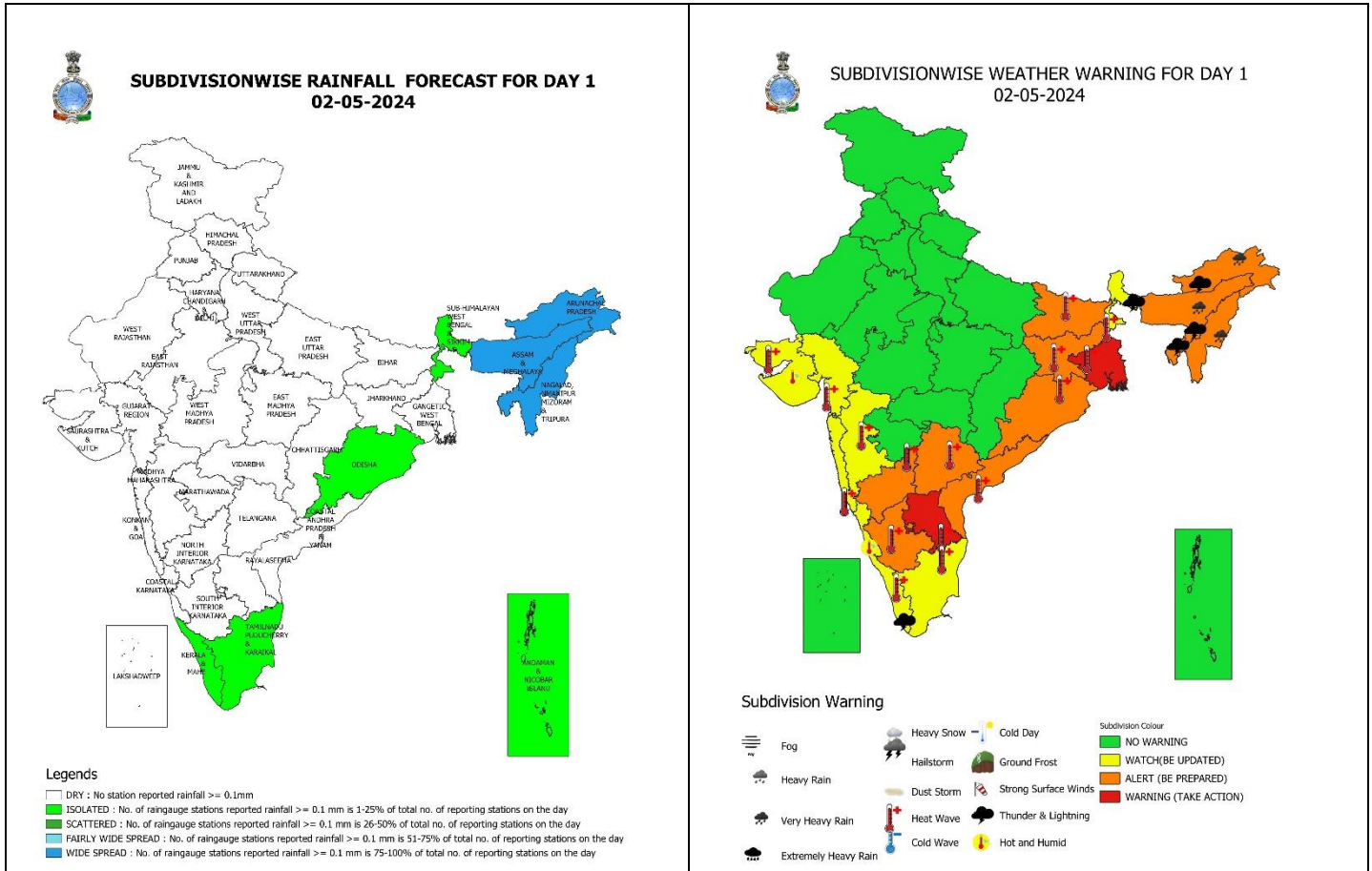


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 30-4-2024 to 0830 IST of 1-5-2024



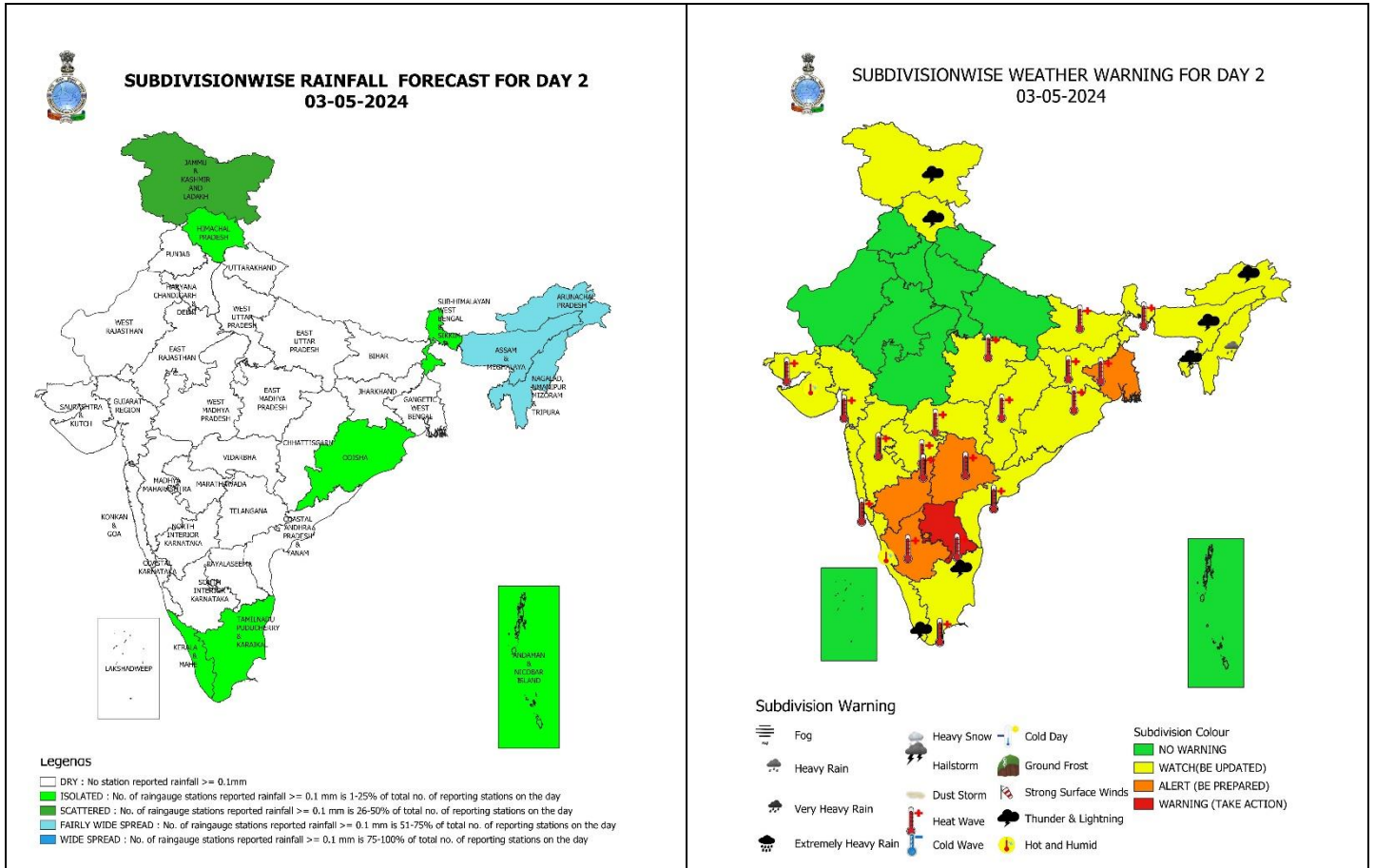
Legends

- 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)



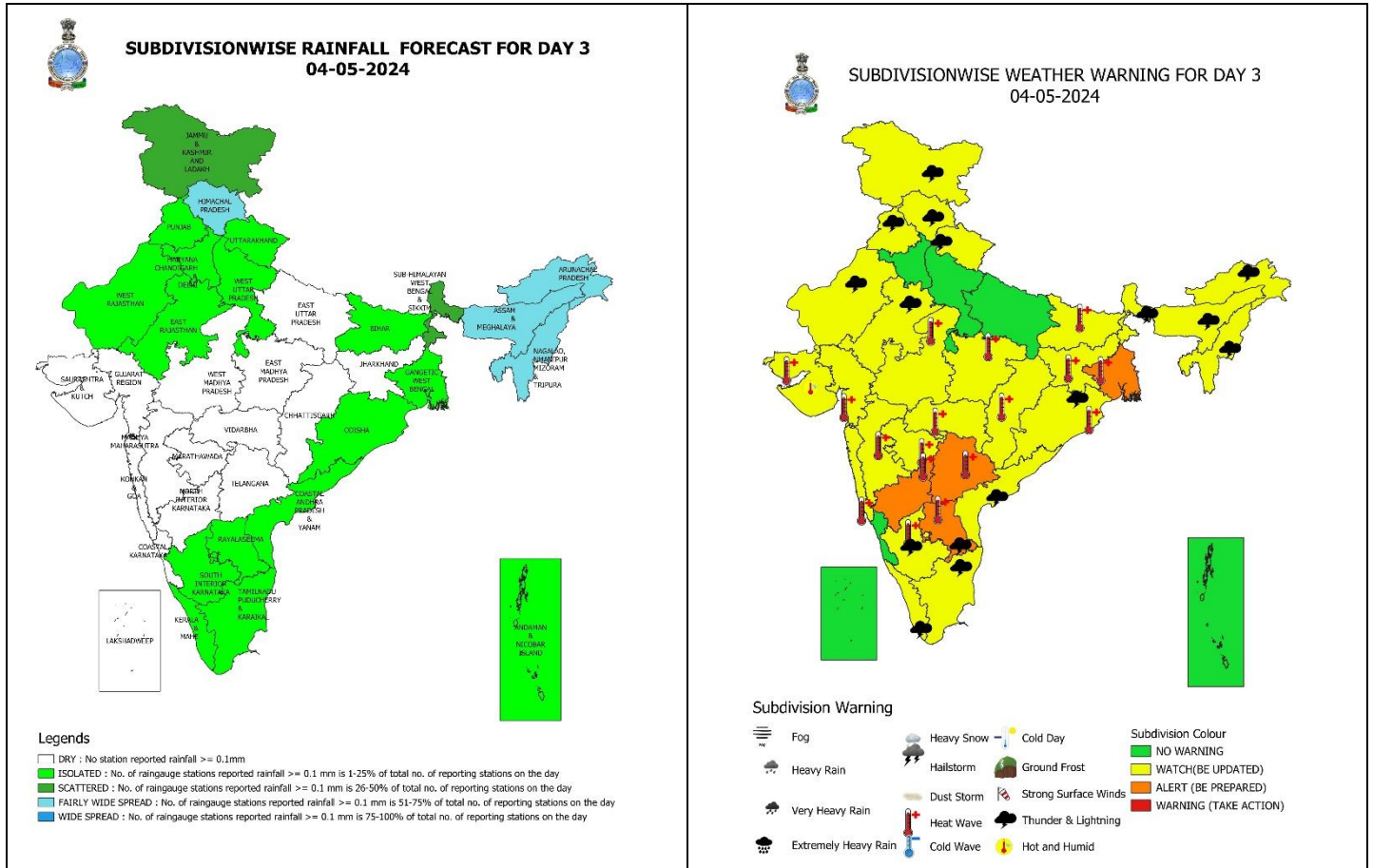
02 May (Day 1):

- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph)** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning, gusty winds (speed reaching 30-40 kmph)** at isolated places over Sikkim; **with lightning** at isolated places over Arunachal Pradesh and Kerala & Mahe.
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Mizoram & Tripura; **heavy rainfall** at isolated places over Nagaland & Manipur.
- ❖ **Hot and humid weather** very likely to prevail over Coastal Karnataka.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in many places over Gangetic West Bengal; in some parts over Jharkhand; in isolated pockets over Odisha, Bihar, Rayalaseema; **heat wave conditions** in isolated pockets over Sub-Himalayan West Bengal, Konkan, Madhya Maharashtra, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Chhattisgarh, Gangetic West Bengal, Odisha and North Interior Karnataka.



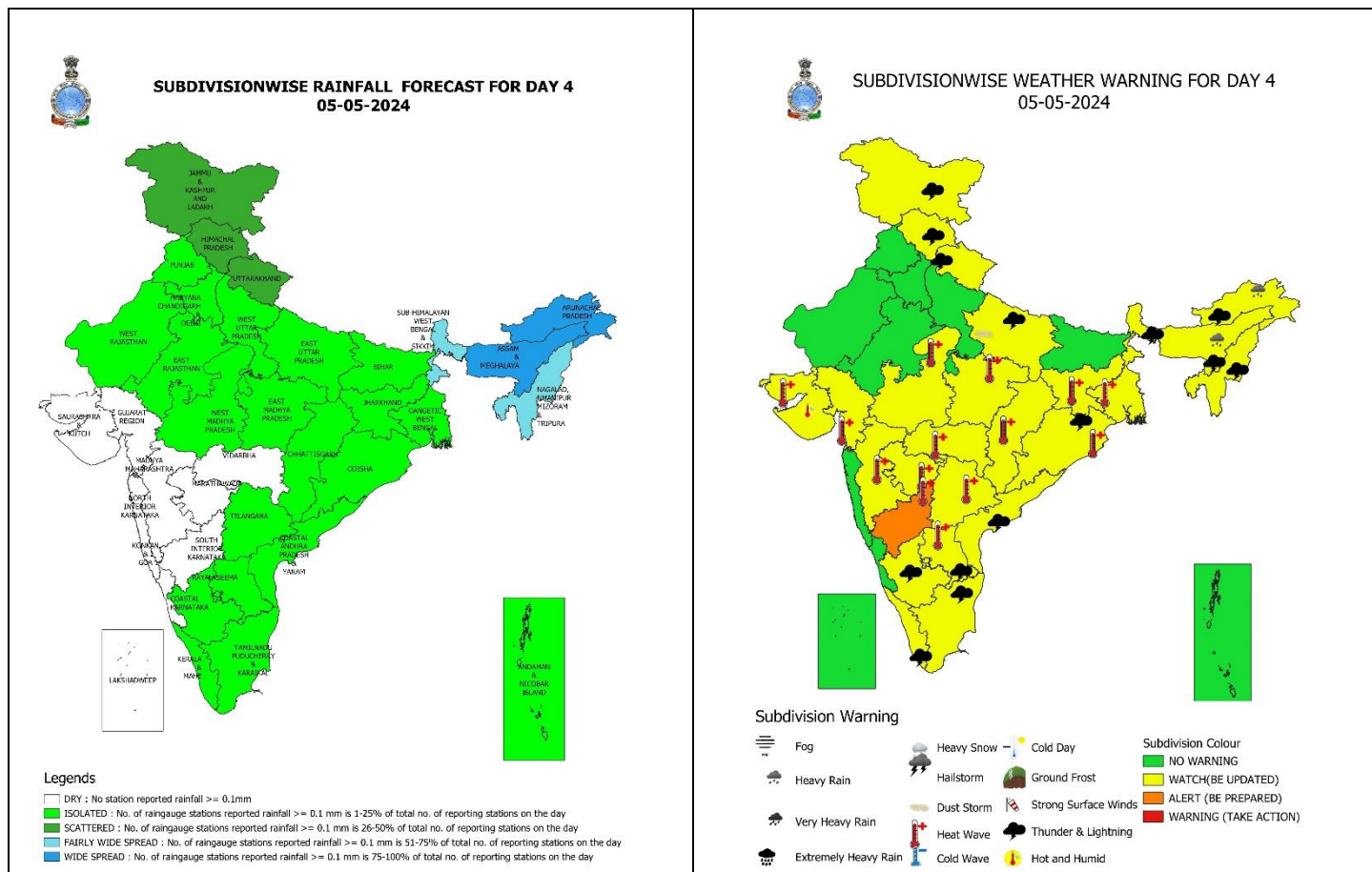
03 May (Day 2):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Kerala & Mahe.
- ❖ **Heavy rainfall** very likely at isolated places over Nagaland & Manipur.
- ❖ **Hot and humid weather** very likely to prevail over Coastal Karnataka.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in some parts over Gangetic West Bengal; in isolated pockets over Rayalaseema; **heat wave conditions** in isolated pockets over Odisha, Jharkhand, Bihar, Sub-Himalayan West Bengal, Marathwada, Vidarbha, Chhattisgarh, East Madhya Pradesh, Konkan, Madhya Maharashtra, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Chhattisgarh, Madhya Maharashtra, Marathwada and North Interior Karnataka.



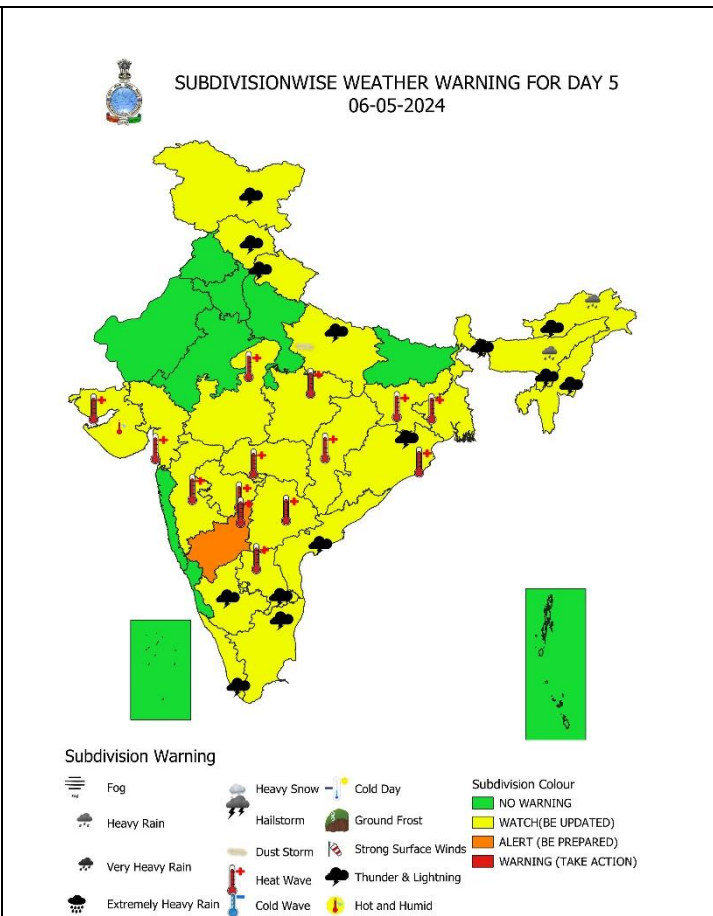
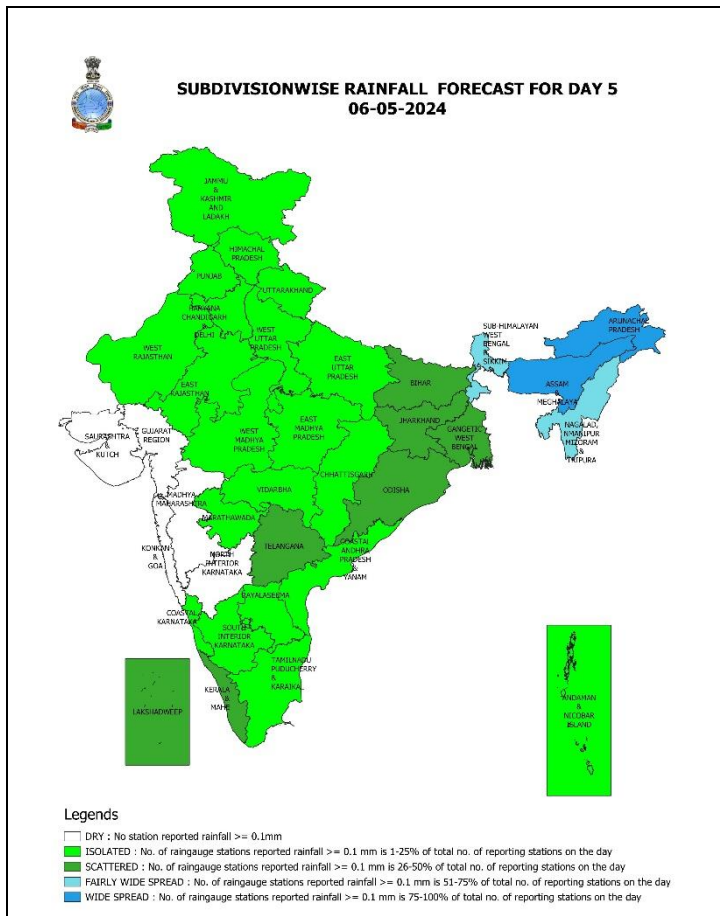
04 May (Day 3):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Sikkim; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Rajasthan, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Odisha, Coastal Andhra Pradesh, Rayalaseema, South Interior Karnataka, Tamil Nadu and Kerala & Mahe.
- ❖ **Heat wave conditions** very likely to prevail in some parts over Gangetic West Bengal; in isolated pockets over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Konkan, Madhya Maharashtra, Marathwada, Gujarat state, Telangana, Rayalaseema and Interior Karnataka.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Madhya Maharashtra, Marathwada and North Interior Karnataka.



05 May (Day 4):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Sikkim; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Odisha, Coastal Andhra Pradesh, Rayalaseema, South Interior Karnataka, Tamil Nadu and Kerala & Mahe.
- ❖ **Heavy rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Duststorm** likely at isolated places over East Uttar Pradesh.
- ❖ **Heat wave** likely to prevail in isolated pockets over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Gujarat state, Telangana, Rayalaseema and North Interior Karnataka.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Madhya Maharashtra, Marathwada and North Interior Karnataka.

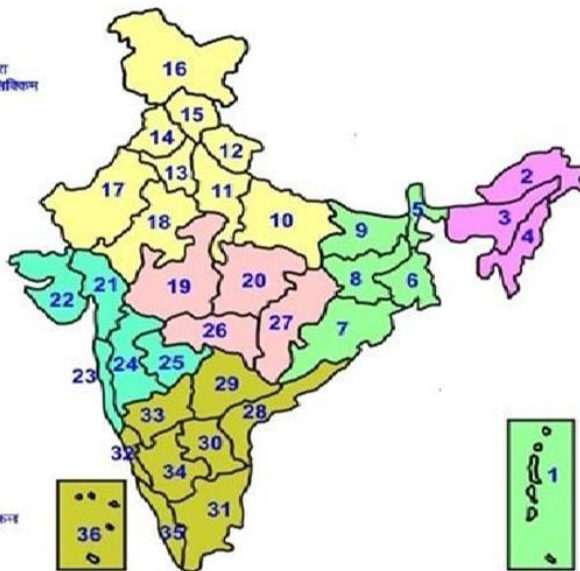


06 May (Day 5):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Sikkim; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Odisha, Coastal Andhra Pradesh, Rayalaseema, South Interior Karnataka, Tamil Nadu and Kerala & Mahe.
- ❖ **Heavy rainfall** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- ❖ **Duststorm** likely at isolated places over East Uttar Pradesh.
- ❖ **Heat wave** likely to prevail in isolated pockets over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Gujarat state, Telangana, Rayalaseema and North Interior Karnataka.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Madhya Maharashtra, Marathwada and North Interior Karnataka.

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 सागरा
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तेलंगाना
- 29 तेलंगाना
- 30 तेलंगाना
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- 33 तेलंगाना
- 34 तेलंगाना
- 35 तेलंगाना
- 36 तेलंगाना



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

* 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

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LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

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



Rain/ Snow *

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



Heat Wave

When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .

Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

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



Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

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