

Saturday, May 4, 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 and another over Sub-Himalayan West Bengal & adjoining west Assam in lower tropospheric levels. Strong southwesterly winds from Bay of Bengal to northeast India are very likely to prevail at lower tropospheric levels on 05th & 06th May, 2024. 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 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 May, 2024.
- ❖ A Western Disturbance seen as a cyclonic circulation over Iran & adjoining Afghanistan in lower tropospheric level with a trough aloft in middle & upper tropospheric westerlies roughly along Long. 59°E to the north of Lat. 25°N. Under its influence:
 - ✓ Isolated to scattered light to moderate rainfall accompanied with **thunderstorm and lightning** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand and Himachal Pradesh during 04th-05th May 2024.
 - ✓ Isolated very light/light rainfall very likely over Haryana-Chandigarh and Punjab on 04th May, 2024.
 - ✓ **Strong surface winds (30-40 kmph)** very likely to prevail over Uttar Pradesh, south Rajasthan and Haryana & Delhi on 04th May, 2024.
- ❖ Isolated light to moderate rainfall accompanied with **thunderstorm & lightning** likely over Odisha, Gangetic West Bengal during 04th-06th and increase thereafter with scattered to fairly widespread rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** during 07th-10th May. Isolated **heavy rainfall** likely over Gangetic West Bengal on 07th & 8th May, 2024.
- ❖ Isolated to scattered light to moderate rainfall accompanied with **thunderstorm & lightning** likely over East Uttar Pradesh, Bihar, Jharkhand during 06th-10th May, 2024.
- ❖ Isolated to scattered, light to moderate rainfall accompanied with **thunderstorm & lightning** over Andhra Pradesh, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 04th-10th; over Telangana and Karnataka during 06th-10th May, 2024. Isolated **heavy rainfall** likely over Coastal Andhra Pradesh, South Interior Karnataka, Tamil Nadu and Kerala on 07th May, 2024.

Maximum temperature observation:

- ❖ Yesterday, maximum temperatures were in the range of 43-46°C in many parts of Rayalaseema and Telangana; in some parts of Odisha; in isolated pockets of Vidarbha, Madhya Maharashtra and Coastal Andhra Pradesh; in the range of 40-43°C in over many parts of Gangetic West Bengal, Marathwada and North Interior Karnataka; in some parts of Rajasthan, Uttar Pradesh, Jharkhand, Chhattisgarh, Madhya Pradesh and Gujarat State. These were above normal by 3-5°C in many parts of West Bengal, Bihar, Odisha, Telangana, Rayalaseema, Coastal Andhra Pradesh and Tamil Nadu.

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

- ❖ **Heat wave conditions** very likely in some pockets over Gangetic West Bengal; at isolated pockets over Telangana, South Interior Karnataka, Coastal Andhra Pradesh, Rayalaseema, Jharkhand and Tamil Nadu during next 2 days; North Interior Karnataka during next 5 days; Bihar on 04th; Madhya Maharashtra, Marathawada on 04th & 05th; Saurashtra & Kutch during 06th- 08th and West Rajasthan on 07th & 8th May.
- ❖ **Hot and humid weather** very likely to prevail in isolated pockets over Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during next 4-5 days; Assam & Meghalaya, Tripura, Saurashtra & Kutch on 04th and Konkan on 04th & 05th 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 Telangana, Coastal Andhra Pradesh & Yanam and South Interior Karnataka.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **South Interior Karnataka: Bengaluru 2.**
- ❖ Yesterday, **Heat Wave to severe heat wave conditions** prevailed in some parts of Gangetic West Bengal and **Heat wave conditions** in some parts of Rayalaseema and in isolated pockets of Odisha, Telangana, Coastal Andhra Pradesh and Tamil Nadu. **Heat wave conditions have been prevailing over Odisha since 15th, Gangetic West Bengal since 17th, Rayalaseema since 24th April, 2024.**
- ❖ **Minimum Temperature Departures (as on 03-05-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Kerala & Mahe; at isolated places over Gangetic West Bengal and Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at a few places over Rayalaseema and South Interior Karnataka; at isolated places over Bihar, Odisha and Coastal Andhra Pradesh & Yanam. These were **markedly below normal (-5.1°C or less)** at isolated places over East Rajasthan and East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Punjab, Haryana-Chandigarh-Delhi and Uttar Pradesh; at a few places over West Rajasthan and West Madhya Pradesh; at isolated places over Chhattisgarh; **below normal (-1.6°C to -3.0°C)** at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand; at many places over Himachal Pradesh, Arunachal Pradesh; at a few places over Gujarat Region and Vidarbha; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 14.5°C** was reported at **Sikar (East Rajasthan)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 03-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at a few places over Gangetic West Bengal; at isolated places over Rayalaseema and Tamil Nadu, Puducherry & Karaikal; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha and Telangana; at isolated places Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at a few places over Madhya Maharashtra, Interior Karnataka and Lakshadweep; at isolated places over Arunachal Pradesh, East Uttar Pradesh, Chhattisgarh, Gujarat state, Konkan & Goa and Andaman & Nicobar Islands. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over East Madhya Pradesh; **below normal (-1.6°C to -3.0°C)**; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana-Chandigarh-Delhi, West Rajasthan, West Madhya Pradesh and Vidarbha and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 46.3°C** was reported at **Nandyal (Rayalaseema)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Western Disturbance as a cyclonic circulation over Iran & neighbourhood now lies over Iran & adjoining Afghanistan at 3.1 km above mean sea level. However, the trough aloft in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 59°E to the north of Lat. 25°N persists.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Sub-Himalayan West Bengal & adjoining west Assam at 0.9 km above mean sea level persists.
- ❖ The trough from south Chhattisgarh to Rayalaseema across Telangana at 0.9 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 11th 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 3 days and no significant change thereafter.
- ❖ Rise in maximum temperatures by 2-3°C very likely over many parts of Central India during next 2 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over East India during next 2 days and fall by 2-4°C thereafter.
- ❖ No significant change in maximum temperatures very likely over Gujarat State during next 2 days and rise by 2-4°C thereafter.
- ❖ Rise in maximum temperatures by 2-3°C very likely over Maharashtra during next 2 days and fall 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 11th-13th 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	04-May	05-May	06-May	07-May	08-May	09-May	10-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	SCT
2	ARUNACHAL PRADESH	SCT	WS	WS	FWS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	SCT	WS	WS	FWS	FWS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	WS	WS	FWS	FWS	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	FWS	WS	WS	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	ISOL	ISOL	FWS	FWS	FWS	FWS	FWS
7	ODISHA	ISOL	ISOL	ISOL	FWS	FWS	FWS	FWS
8	JHARKHAND	DRY	DRY	ISOL	SCT	FWS	FWS	FWS
9	BIHAR	DRY	ISOL	ISOL	SCT	SCT	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	ISOL	SCT	SCT	SCT	ISOL
11	WEST UTTAR PRADESH	DRY	ISOL	DRY	ISOL	ISOL	ISOL	DRY
12	UTTARAKHAND	ISOL	ISOL	ISOL	ISOL	SCT	SCT	SCT
13	HARYANA CHANDIGARH & DELHI	ISOL	DRY	DRY	ISOL	DRY	DRY	DRY
14	PUNJAB	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	ISOL	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	ISOL	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	ISOL
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	ISOL	ISOL	SCT
25	MARATHAWADA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
29	TELANGANA	DRY	DRY	ISOL	SCT	SCT	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	DRY	ISOL	SCT	SCT	ISOL	SCT
35	KERALA & MAHE	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
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

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

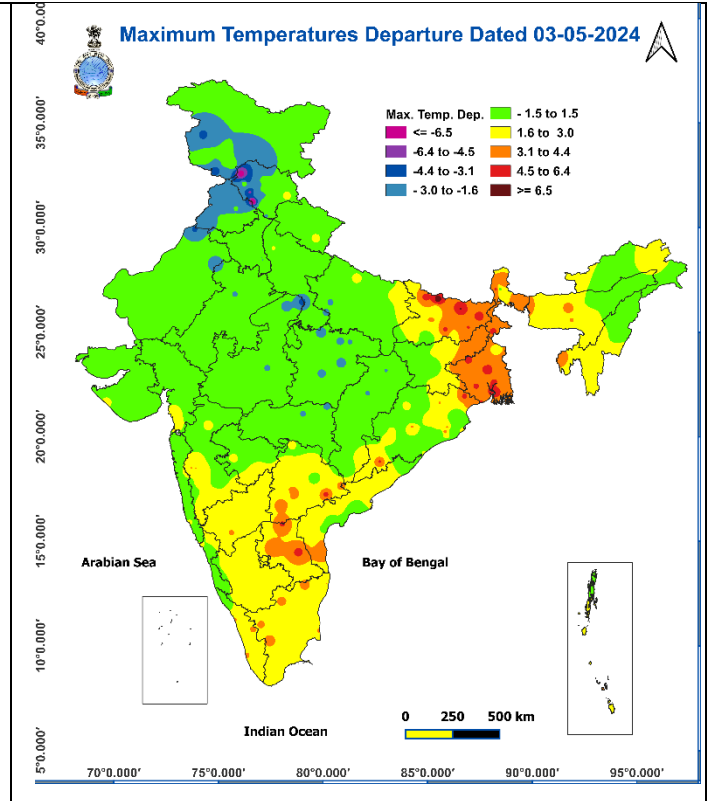
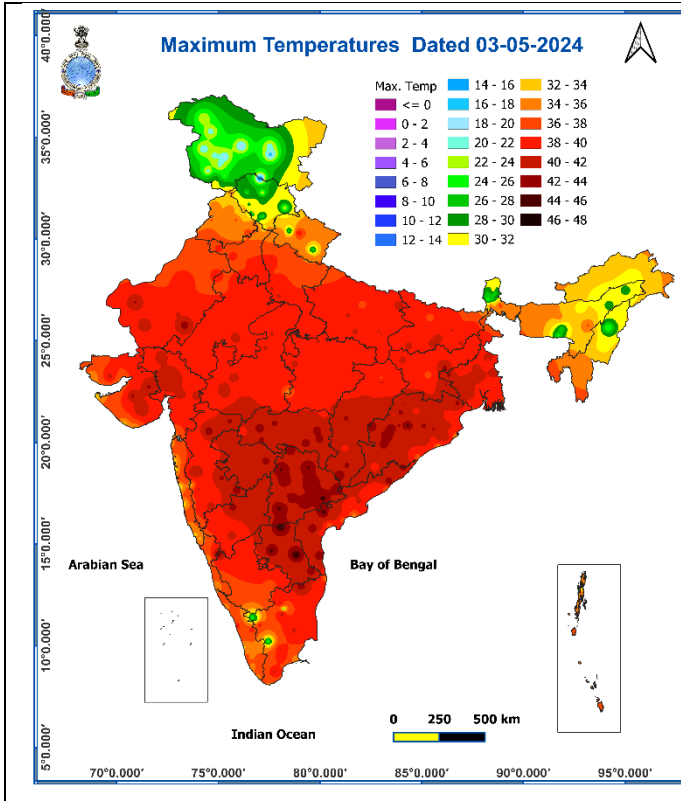


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

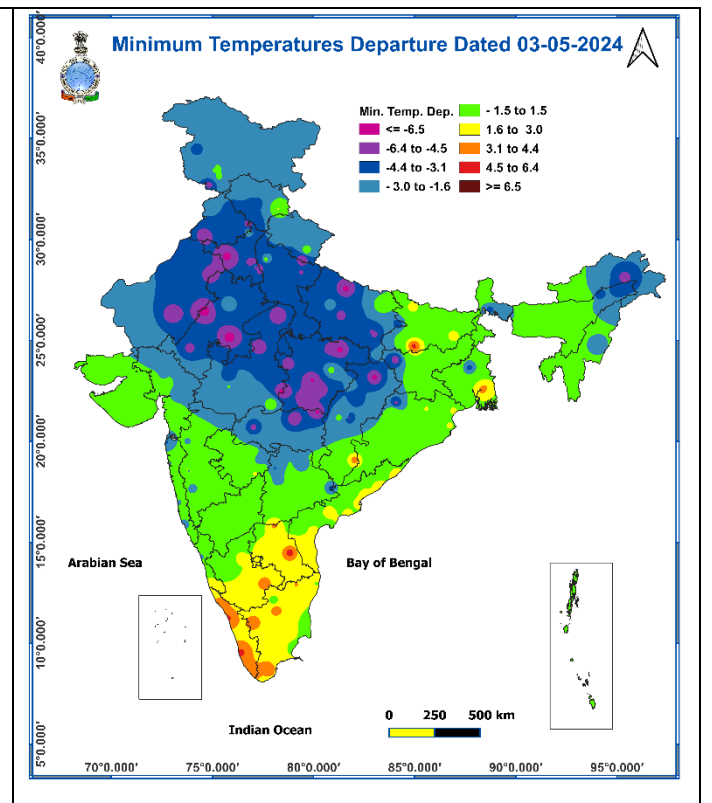
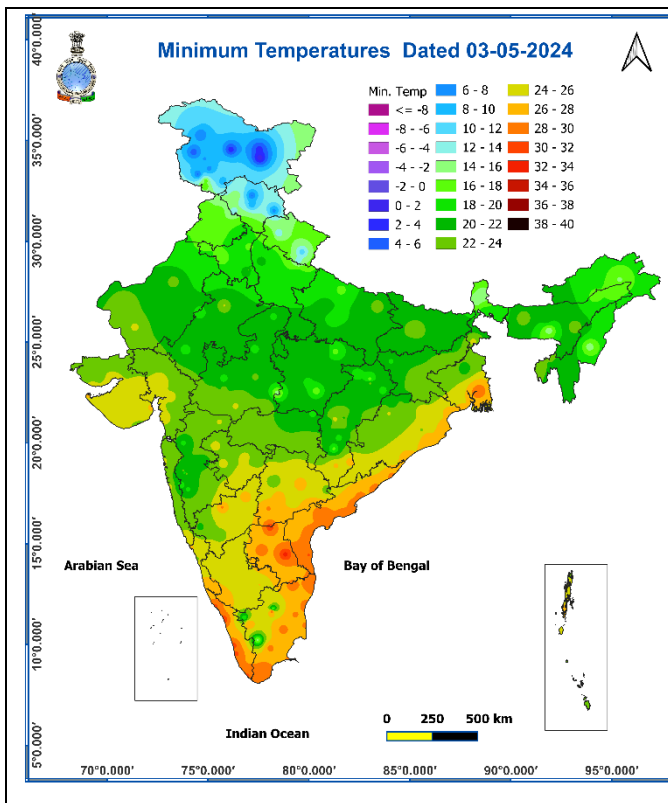
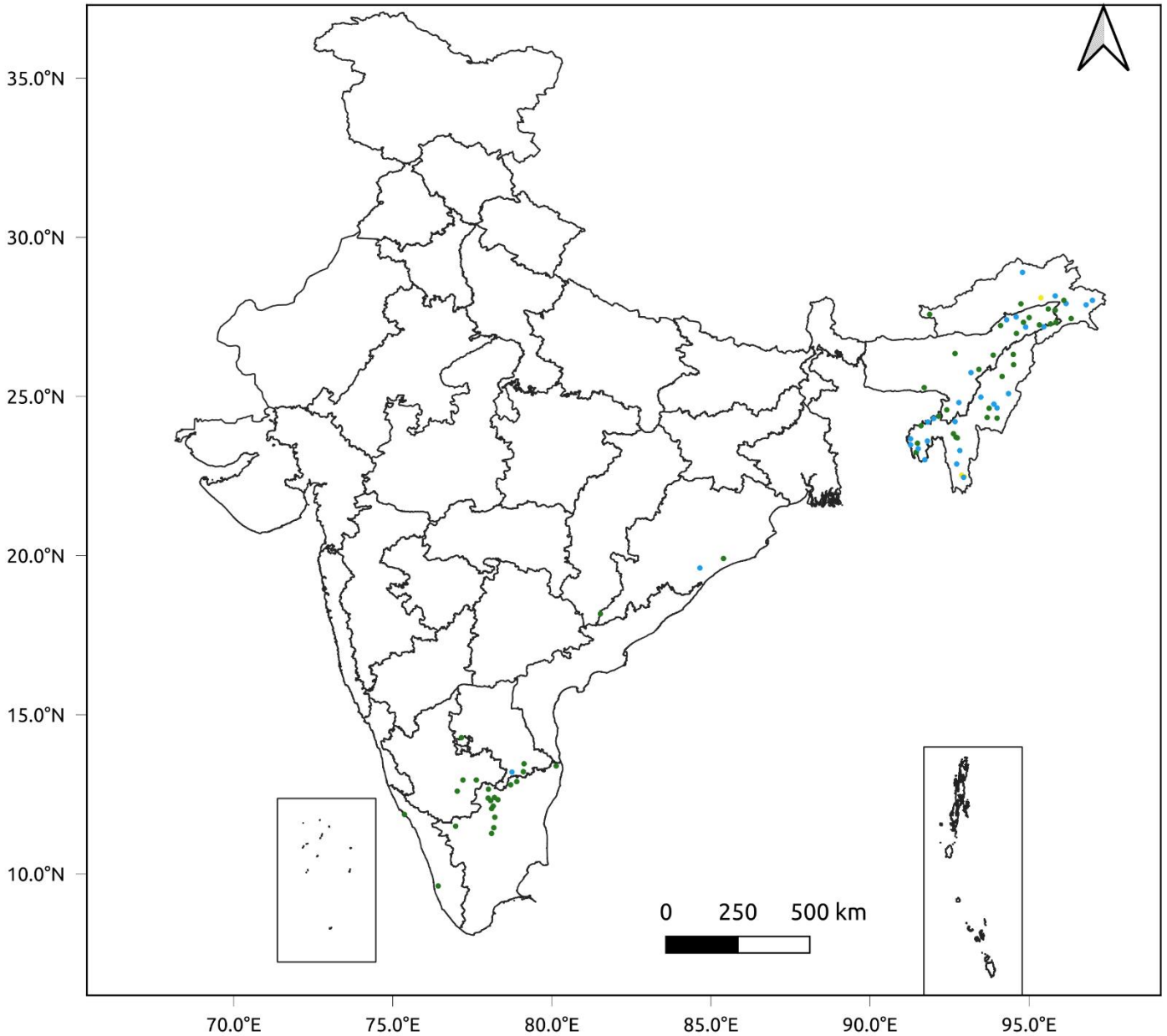


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

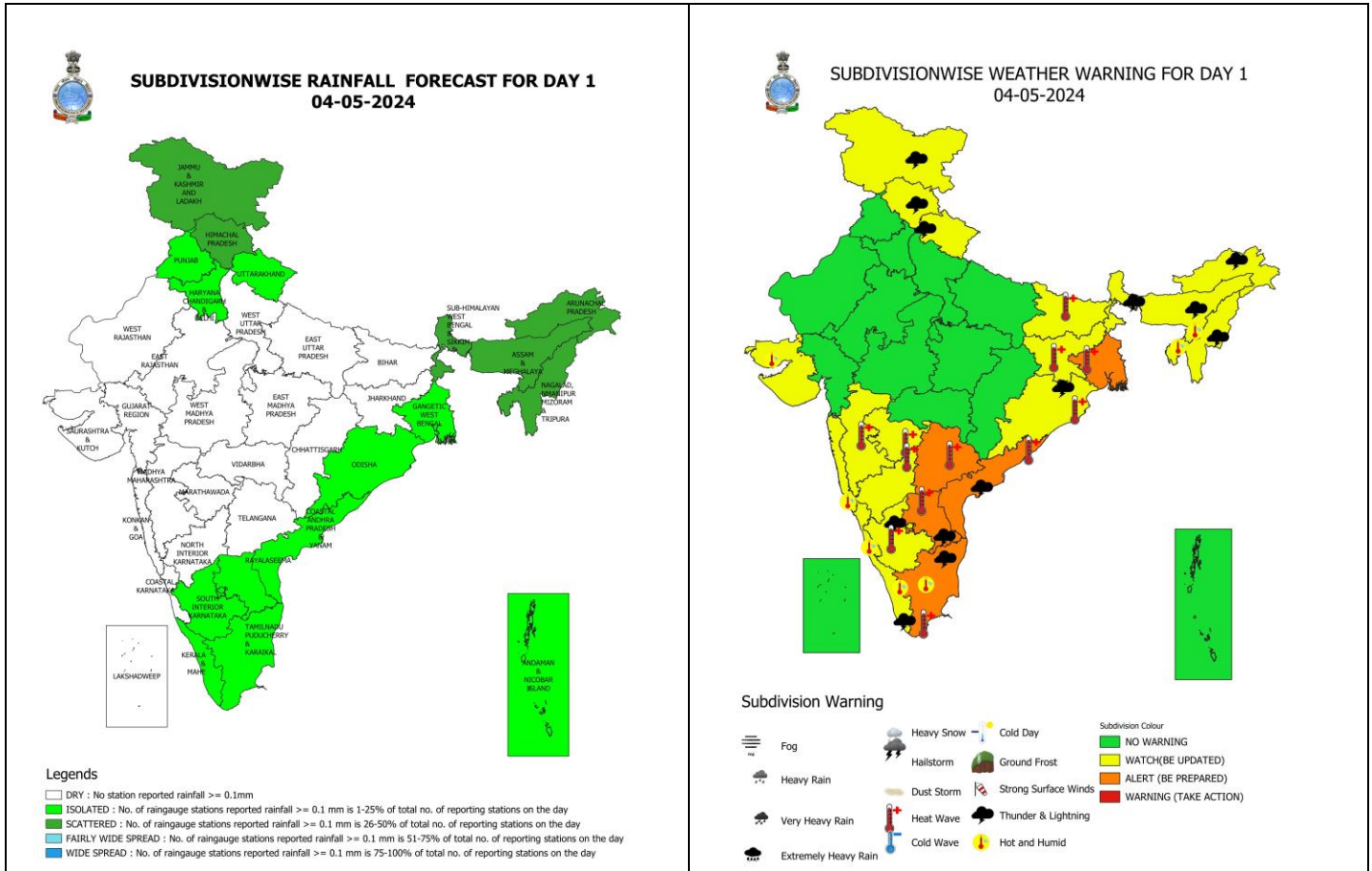


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 2-5-2024 to 0830 IST of 3-5-2024



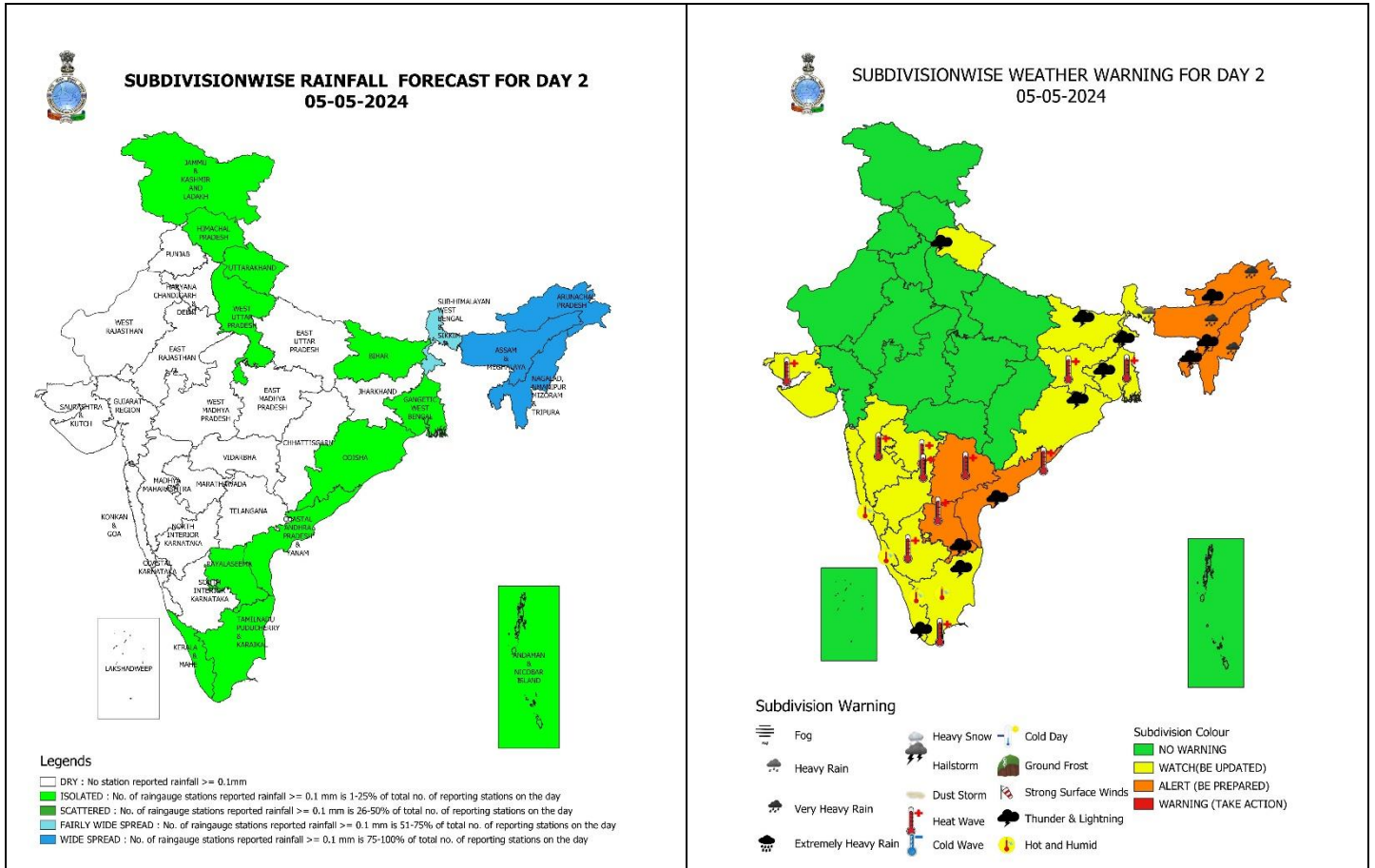
Legends

- 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)



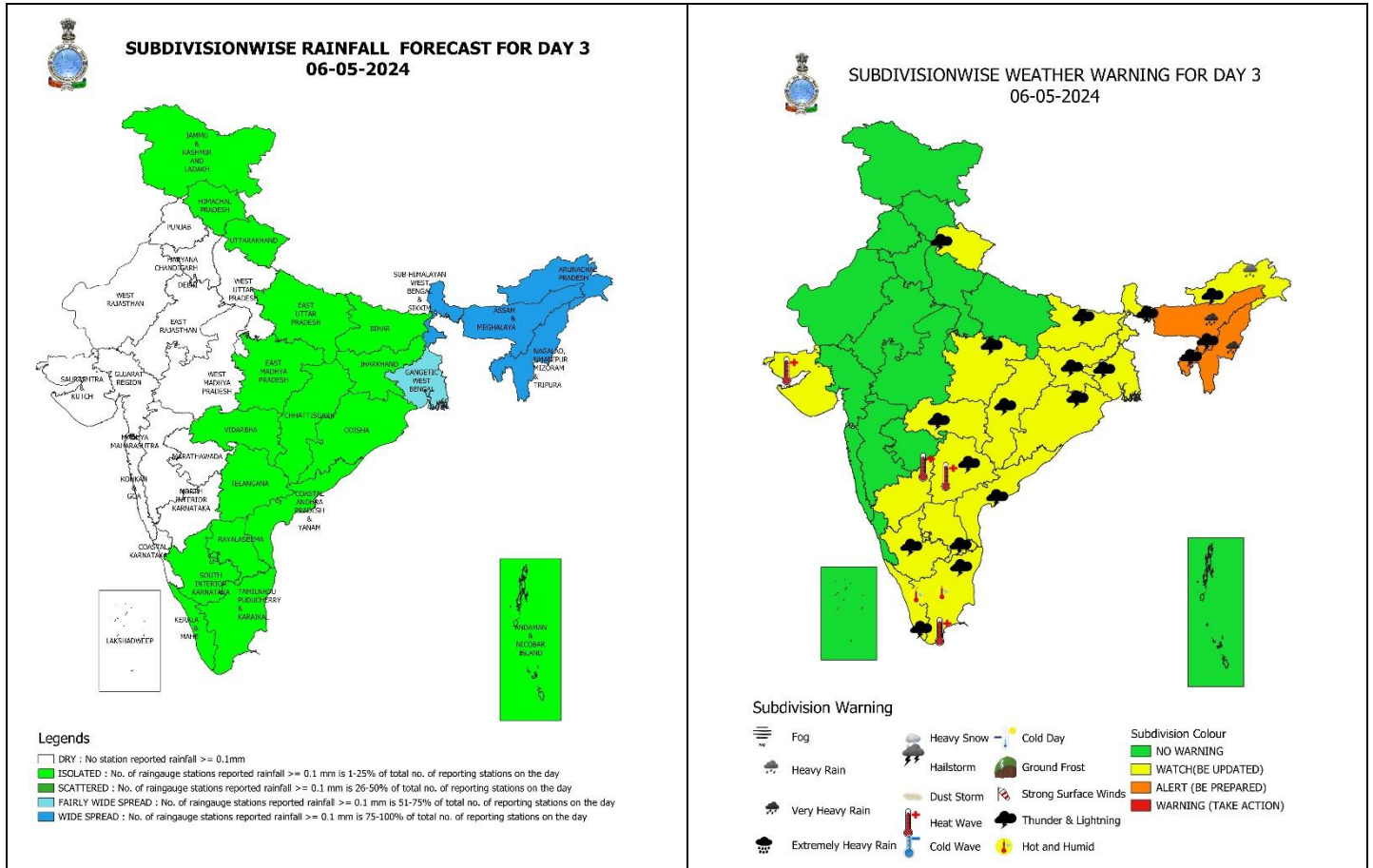
04 May (Day 1):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Rayalaseema; **with lightning** at isolated places over Himachal Pradesh, Arunachal Pradesh and Kerala & Mahe.
- ❖ **Hot and humid weather** very likely to prevail over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan, Saurashtra & Kutch, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat wave conditions** very likely to prevail in some parts over Gangetic West Bengal; in isolated pockets over Bihar, Jharkhand, Odisha, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, 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 coast. Fishermen are advised not to venture into these areas.



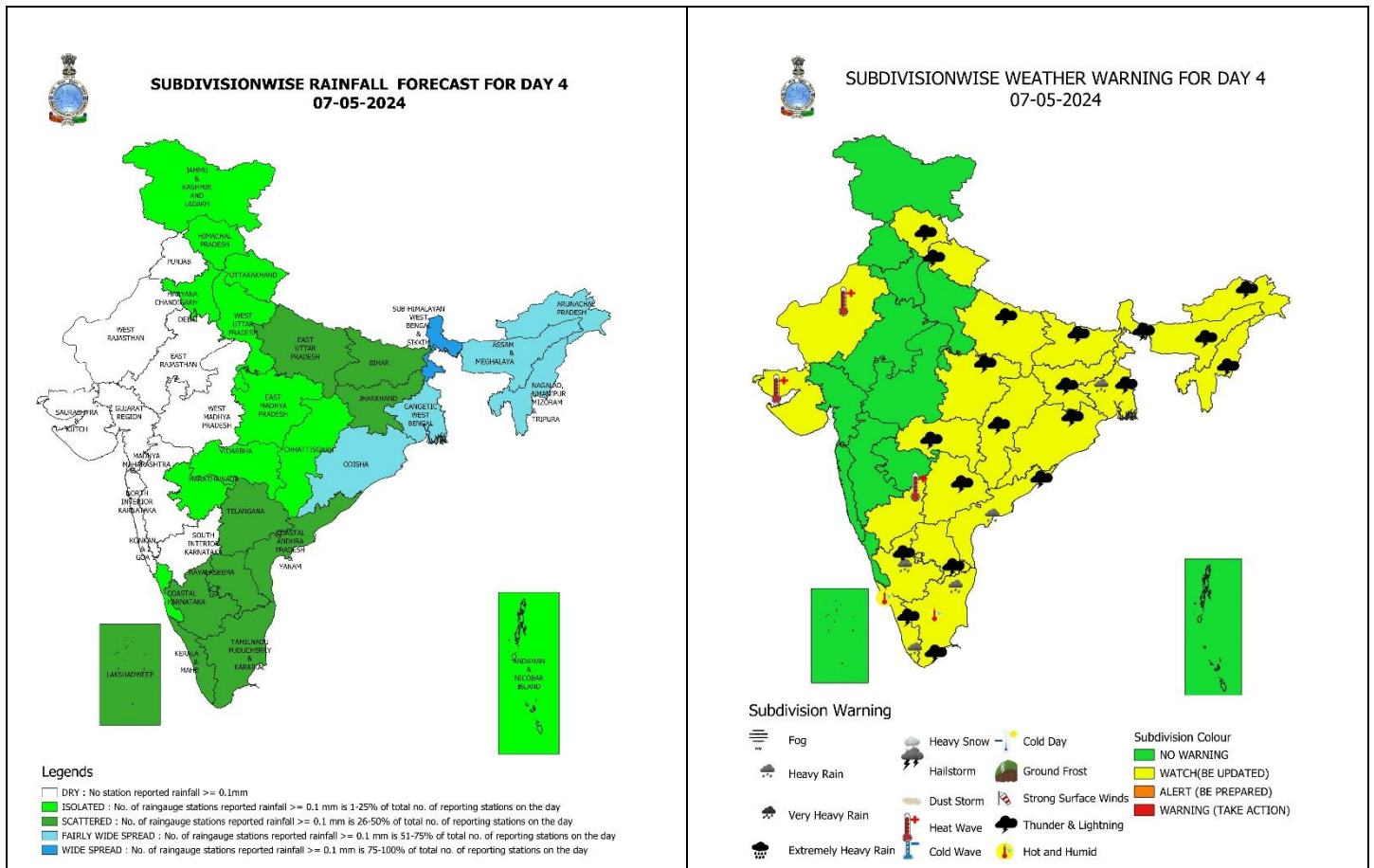
05 May (Day 2):

- ❖ **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 40-50 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, Gangetic West Bengal, Bihar, Odisha, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Rayalaseema; **with lightning** at isolated places over Arunachal Pradesh, Kerala & Mahe.
- ❖ **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 Konkan, Kerala & Mahe and Coastal Karnataka.
- ❖ **Heat wave** very likely to prevail in isolated pockets over Gangetic West Bengal, Jharkhand, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, 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 coast. Fishermen are advised not to venture into these areas.



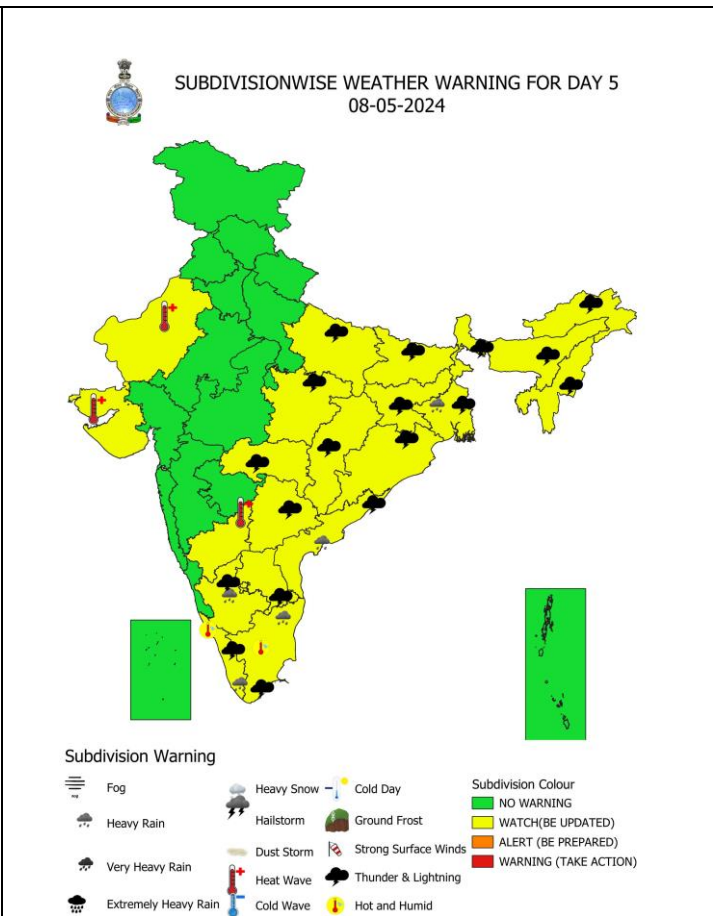
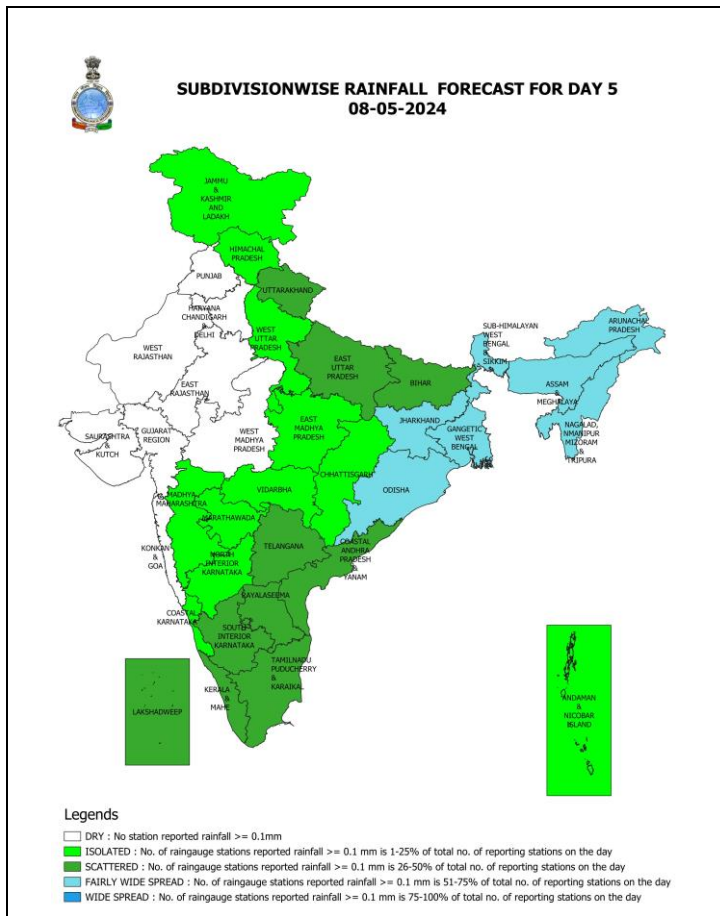
06 May (Day 3):

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



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

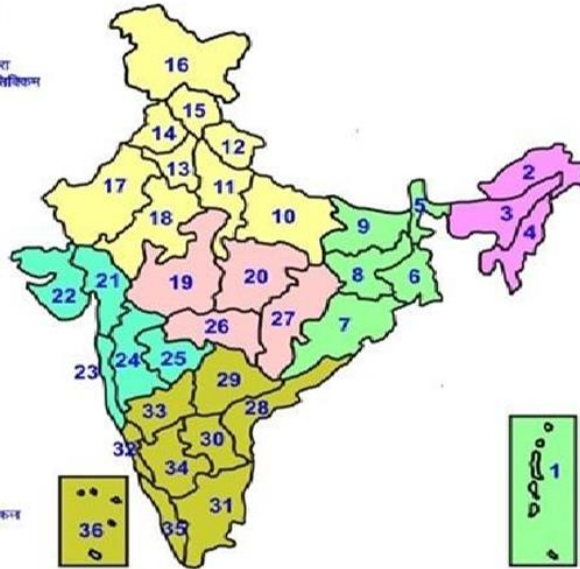


08 May (Day 5):

- ❖ **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, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **with lightning** at isolated places over East Uttar Pradesh, Arunachal Pradesh, South Interior Karnataka.
- ❖ **Heavy rainfall** likely at isolated places over Gangetic West Bengal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and north Tamil Nadu.
- ❖ **Hot and humid weather** likely to prevail over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heat wave** likely to prevail in isolated pockets over West Rajasthan, Saurashtra & Kutch and North Interior Karnataka.
- ❖ **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off West Bengal coast and adjoining Odisha 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 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 आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तमिलनाडु, पुदुचेरी एवं केरल
- 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

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)