

Thursday, May 9, 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, another cyclonic circulation over Bangladesh and a trough runs from northeast Rajasthan to south Assam in lower tropospheric levels. Under their influence:
 - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & squally winds (40-50 kmph)** very likely over West Bengal & Sikkim during 09th-11th; scattered to fairly widespread rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** over Bihar, Jharkhand, Odisha during 09th-12th; isolated to scattered rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** over Marathwada on 12th; West Madhya Pradesh on 09th and East Madhya Pradesh, Vidarbha and Chhattisgarh during 09th-12th May, 2024.
 - ✓ Scattered to Fairly 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 also very likely over Gangetic West Bengal, Arunachal Pradesh, Assam, Meghalaya, Nagaland, Manipur, Mizoram and Tripura on 10th; over Odisha and Sub-Himalayan West Bengal & Sikkim on 09th May, 2024.**
 - ✓ **Hailstorm activity** also very likely over East Madhya Pradesh and Vidarbha on 09th May, 2024.
- ❖ A cyclonic circulation lies over Tamil Nadu in lower tropospheric levels. A trough/wind discontinuity runs from northeast Rajasthan to South Interior Karnataka 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, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and North Interior & Coastal Karnataka during 09th-12th; scattered to fairly widespread rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** over Kerala & Mahe, South Interior Karnataka during 09th-12th May, 2024.
 - ✓ **Isolated heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal during 09th - 11th and Kerala & Mahe on 11th May, 2024.**
- ❖ A fresh Western Disturbance now seen as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 50°E to the north of Lat. 30°N. Under its influence:
 - ✓ Scattered to fairly widespread rainfall activity accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 09th-12th May, 2024.
 - ✓ **Hailstorm activity** very likely at isolated places over Uttarakhand during 09th - 12th May, 2024.
 - ✓ Isolated light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Haryana-Chandigarh, Punjab and Rajasthan during 10th-12th; over Uttar Pradesh during 09th-12th; May, 2024.
 - ✓ **Duststorm/thunderstorm with gusty winds (30-40 kmph)** very likely to prevail over West Uttar Pradesh on 11th; East Uttar Pradesh during 09th-12th and over Haryana and West Rajasthan during 10th-12th; over East Rajasthan on 10th May, 2024.
 - ✓ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh and Rajasthan during next 5 days.

Maximum temperature observation:

- ❖ **Areas having maximum temperatures greater than 40°C:-** Yesterday, maximum temperatures were in the range of 43-46°C over many parts of West Rajasthan; in isolated pockets of East Rajasthan and in the range of 40-43°C over many parts of Madhya Pradesh; in some parts of interior parts of Gujarat & north Madhya Maharashtra and in isolated pockets of Punjab, south Haryana, interior Tamil Nadu, North Interior Karnataka, Marathwada and Vidarbha. These were above normal by 2-4°C over Rajasthan and above normal by 1-2°C over rest of the above-mentioned areas.

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

- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over East Rajasthan and Saurashtra & Kutch on 09th; over West Rajasthan and West Madhya Pradesh during 09th - 10th May, 2024.
- ❖ **Hot and humid weather** very likely to prevail in isolated pockets over coastal areas of Gujarat during next 5 days and over Kerala & Mahe during 09th - 10th May, 2024.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Bihar, Gangetic West Bengal, Odisha, Chhattisgarh, West Madhya Pradesh, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **Tamil Nadu:** Valparai-3; **Nagaland:** Kohima-1
- ❖ **Yesterday, heat wave conditions** prevailed in some pockets of West Rajasthan.
- ❖ **Minimum Temperature Departures (as on 08-05-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Haryana-Chandigarh-Delhi; at isolated places over Uttarakhand, Rajasthan and West Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Kerala & Mahe and Lakshadweep; at a few places over West Uttar Pradesh, Gujarat state and Tamil Nadu, Puducherry & Karaikal; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh and Madhya Maharashtra. These were **markedly below normal (-5.1°C or less)** at isolated places over Gangetic West Bengal, Jharkhand and Coastal Andhra Pradesh & Yanam; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Chhattisgarh, Vidarbha, Telangana and Rayalaseema; **below normal (-1.6°C to -3.0°C)** at a few places over East Uttar Pradesh and Bihar; at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Marathwada and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 19.1°C** was reported at **Purulia (Gangetic West Bengal)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 08-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Kerala & Mahe; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Punjab, West Rajasthan, Arunachal Pradesh, Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over East Rajasthan, Madhya Maharashtra, Karnataka, Himachal Pradesh. These were **markedly below normal (-5.1°C or less)** at a few places over East Uttar Pradesh, Bihar, Gangetic West Bengal; at isolated places over Chhattisgarh, East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Jharkhand and at isolated places over Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at most places over West Uttar Pradesh, at many places over Odisha, Uttarakhand, Sub-Himalayan West Bengal & Sikkim; at a few places over Vidarbha; at isolated places over Haryana-Chandigarh-Delhi, Telangana, Rayalaseema, Nagaland, Manipur, Mizoram & Tripura and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 45.9°C** was reported at **Barmer (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The cyclonic circulation over northeast Assam & neighbourhood at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over Bangladesh & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over north Haryana & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over northeast Rajasthan to south Assam across Uttar Pradesh, Jharkhand & Gangetic West Bengal at 1.5 km above mean sea level persists.
- ❖ The trough/wind discontinuity from northeast Rajasthan to South Interior Karnataka across Madhya Maharashtra & North Interior Karnataka at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over Tamil Nadu extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Arabian sea & adjoining Gujarat coast between 1.5 km & 5.8 km above mean sea level persists.
- ❖ A fresh Western Disturbance now seen as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 50°E to the north of Lat. 30°N.

Weather Forecast for next 7 days (Upto 0830 hours IST of 16th May, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ No significant change in maximum temperatures very likely over most parts of the plains of Northwest India (except Rajasthan where temperatures are likely to rise by about 2°C during next 24 hours).
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 16th-18th May, 2024)

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

Table-1

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

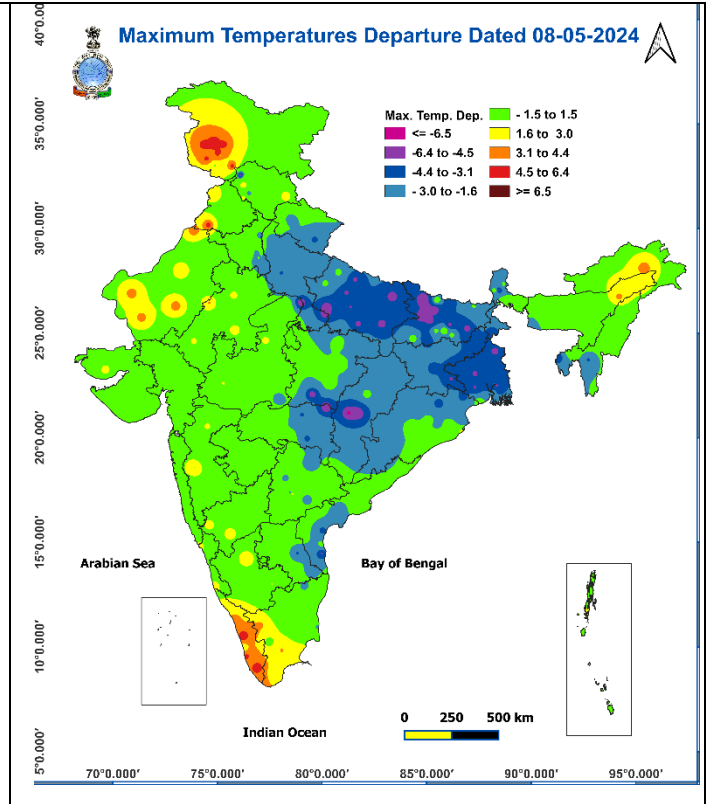
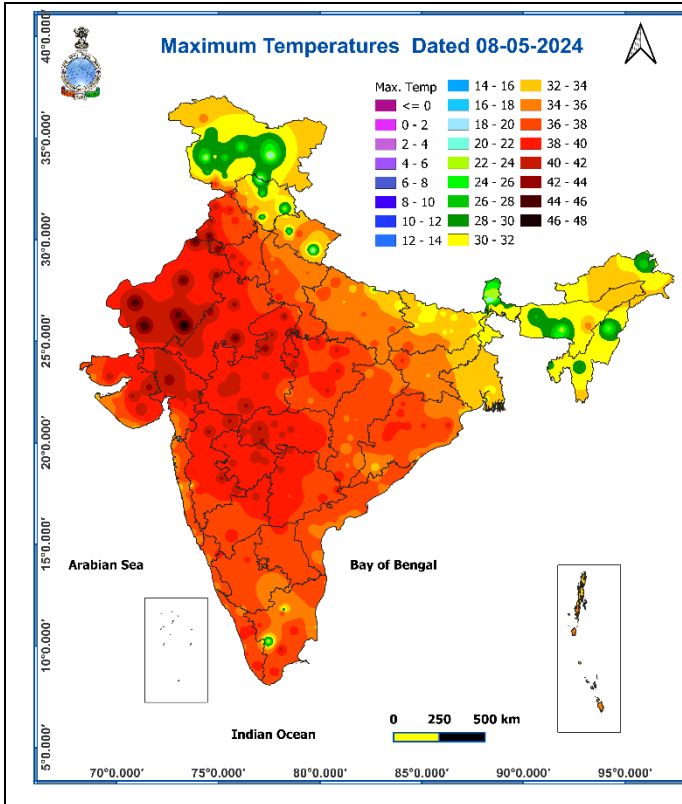
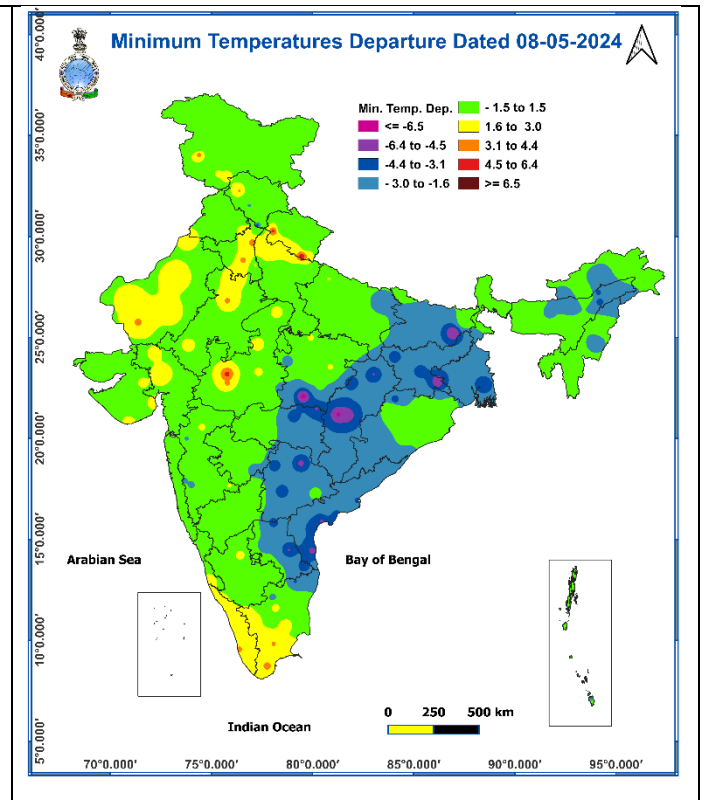
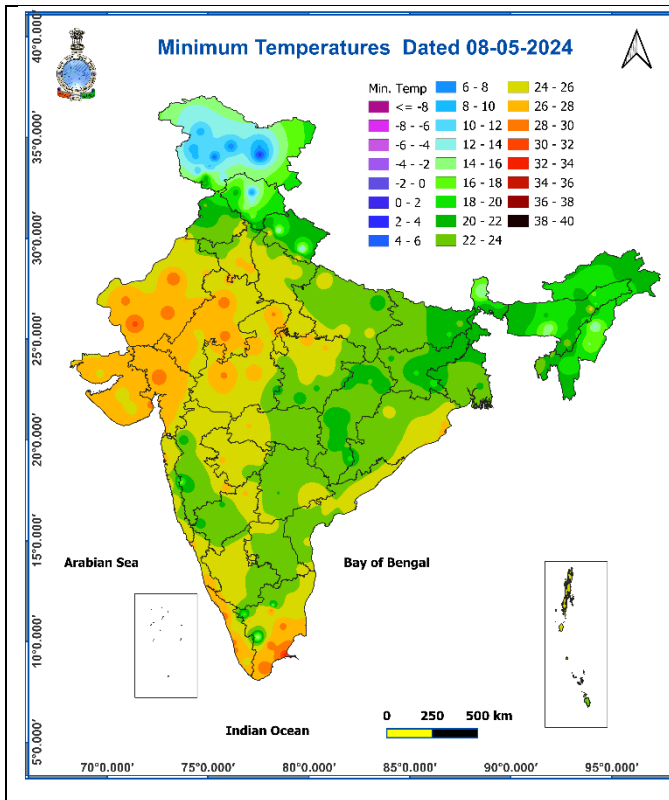


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

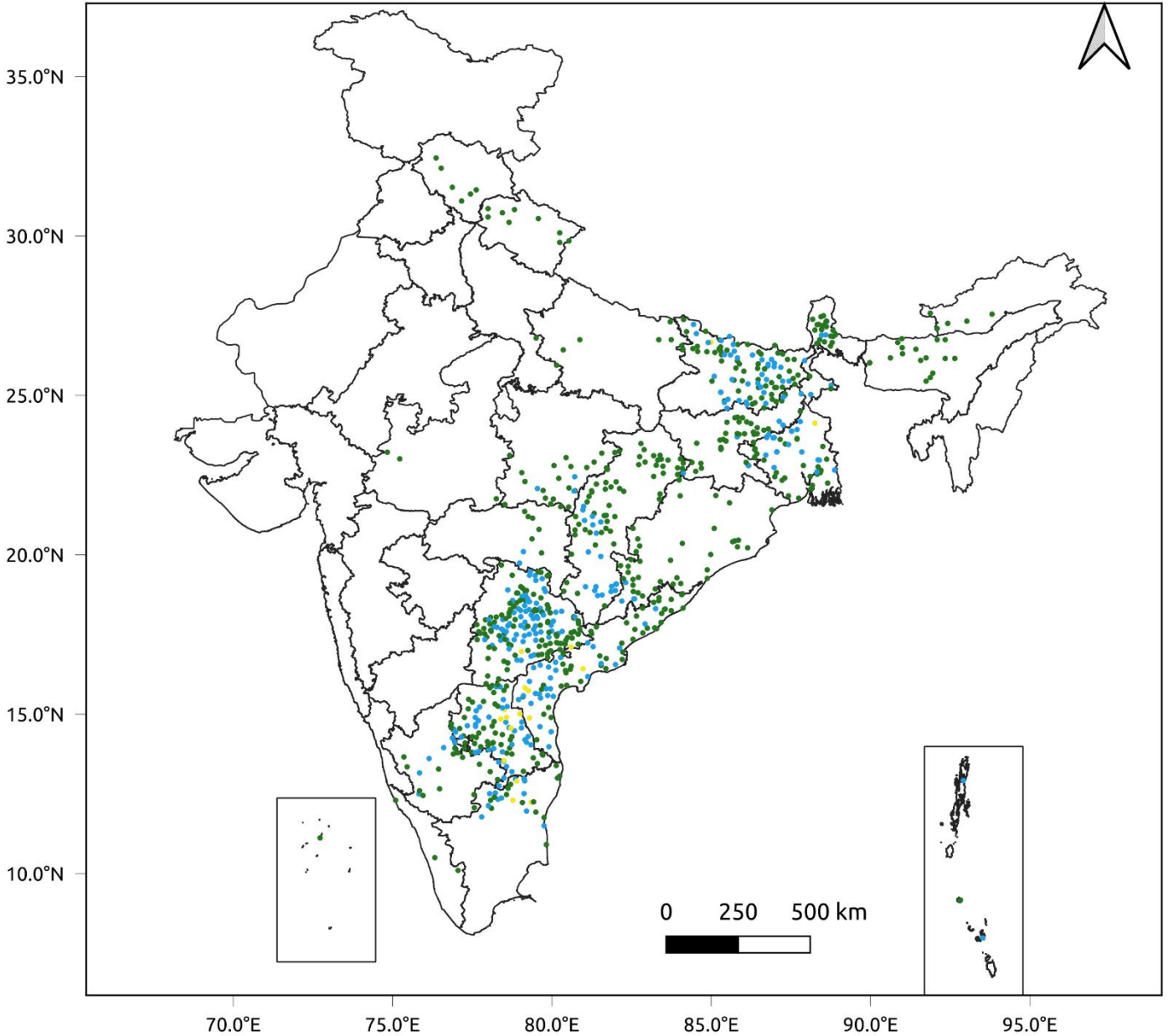


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Fig. 5: Accumulated Rainfall (mm) during past 24 hours

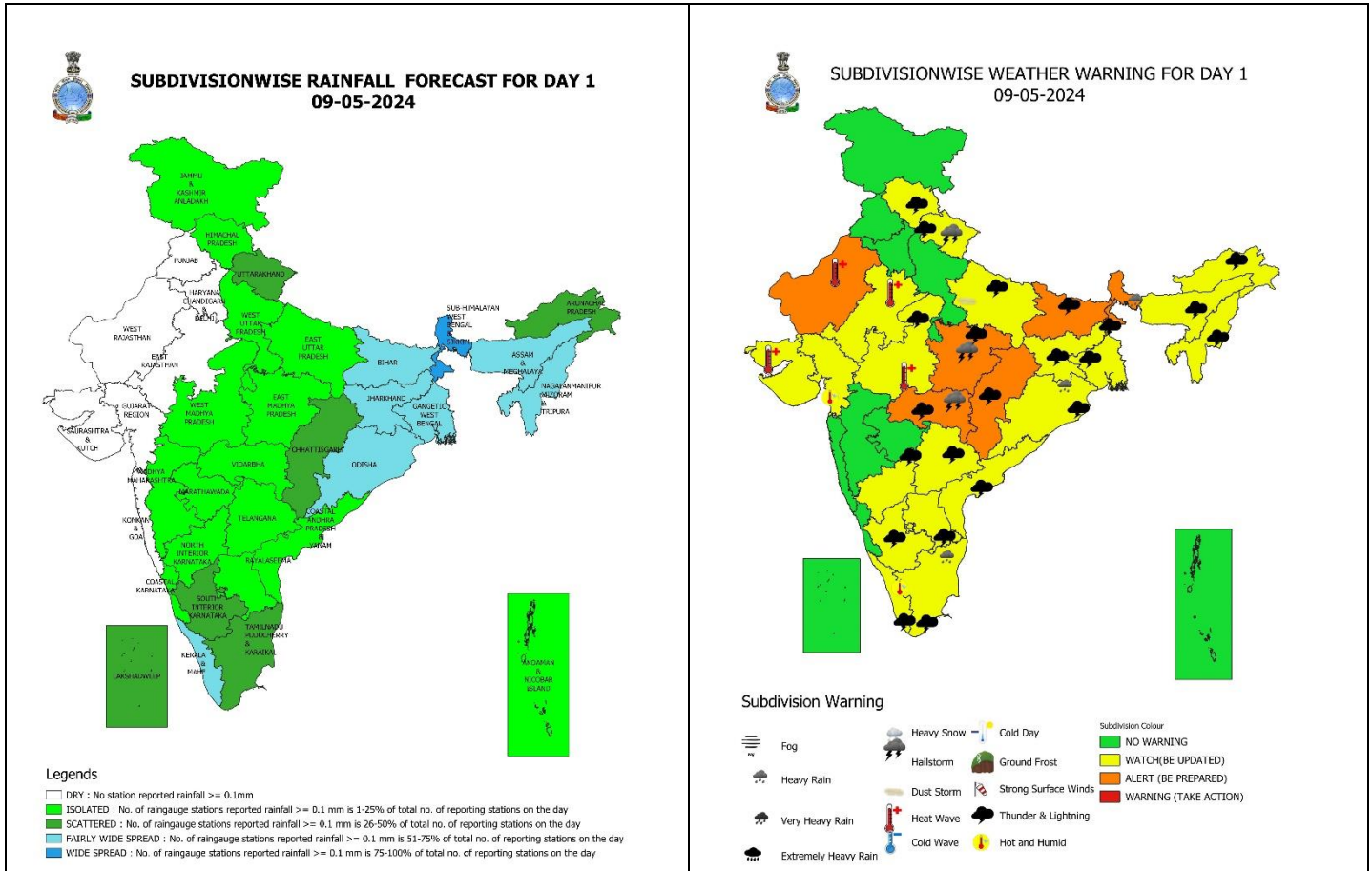


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 7-5-2024 to 0830 IST of 8-5-2024



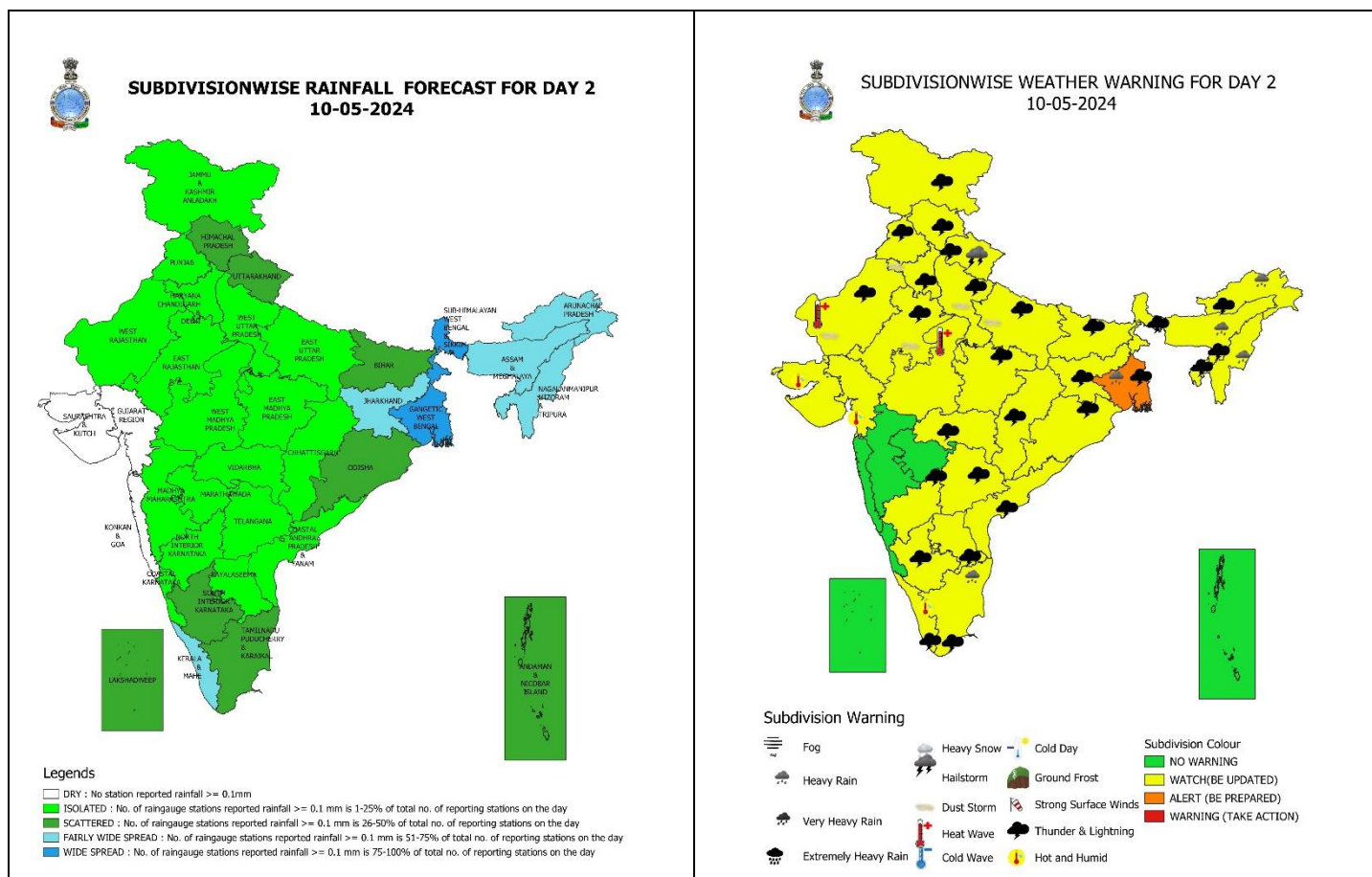
Legends

- 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)



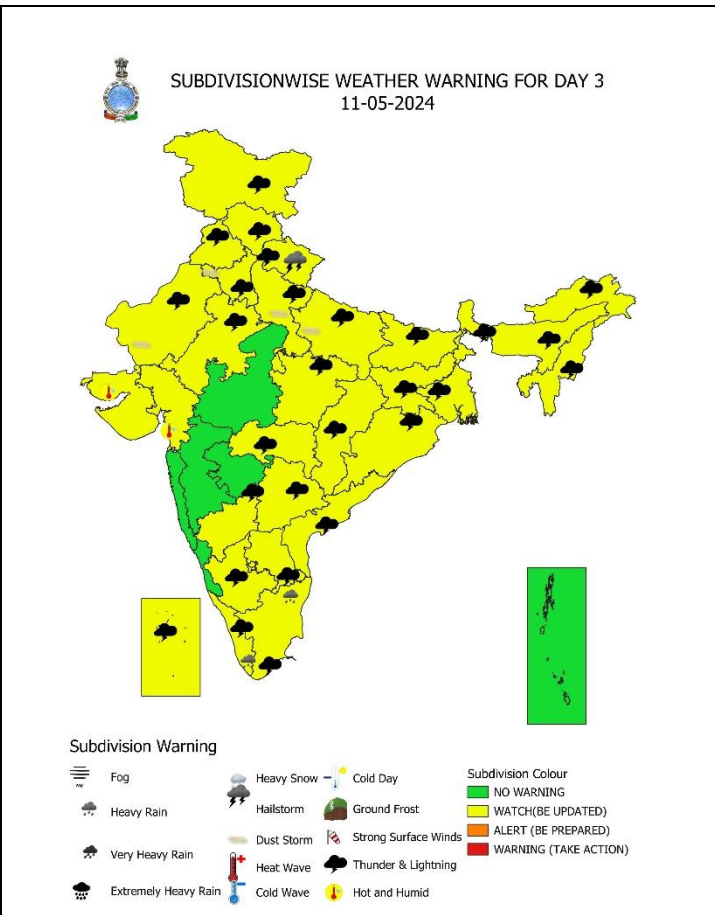
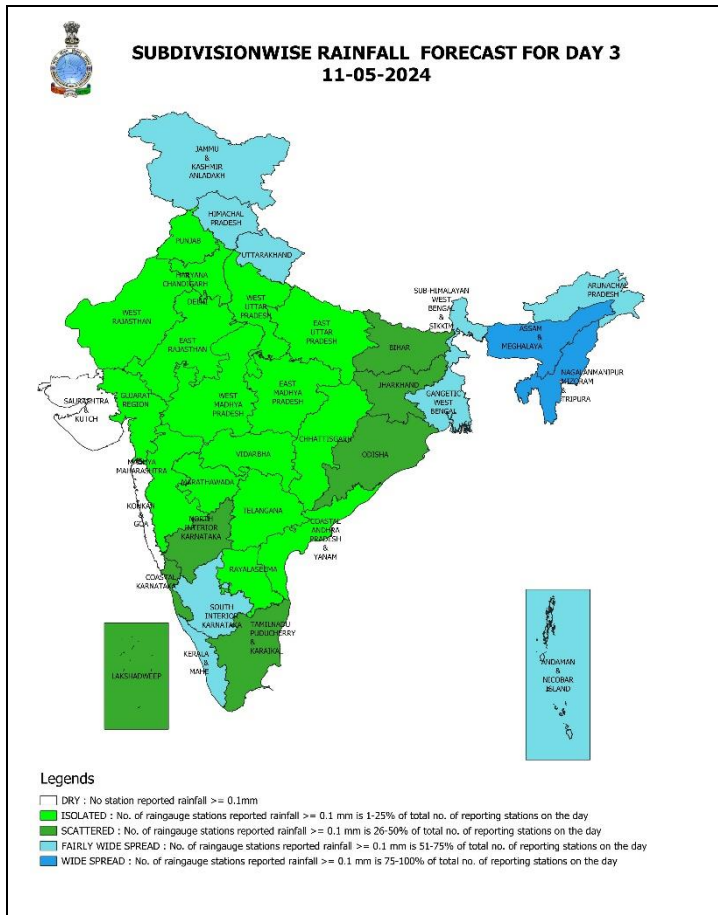
09 May (Day 1):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm** very likely at isolated places over Uttarakhand, East Madhya Pradesh and Vidarbha; **with lightning & squally winds (speed reaching 50-60 kmph gusting to 70 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar; **with lightning, gusty winds (speed reaching 40-50 kmph)** at isolated places over Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha and Coastal Andhra Pradesh & Yanam; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Telangana and Interior Karnataka; **with lightning** at isolated places over Himachal Pradesh, Arunachal Pradesh and Kerala & Mahe.
- ❖ **Dust Storm/Thunderstorm** very likely in isolated pockets over East Uttar Pradesh.
- ❖ **Heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Hot and humid weather** very likely to prevail over coastal areas of Gujarat and Kerala & Mahe.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail in isolated pockets over West Rajasthan and **Heat wave conditions** very likely to prevail in isolated pockets over East Rajasthan, West Madhya Pradesh and Saurashtra & Kutch.



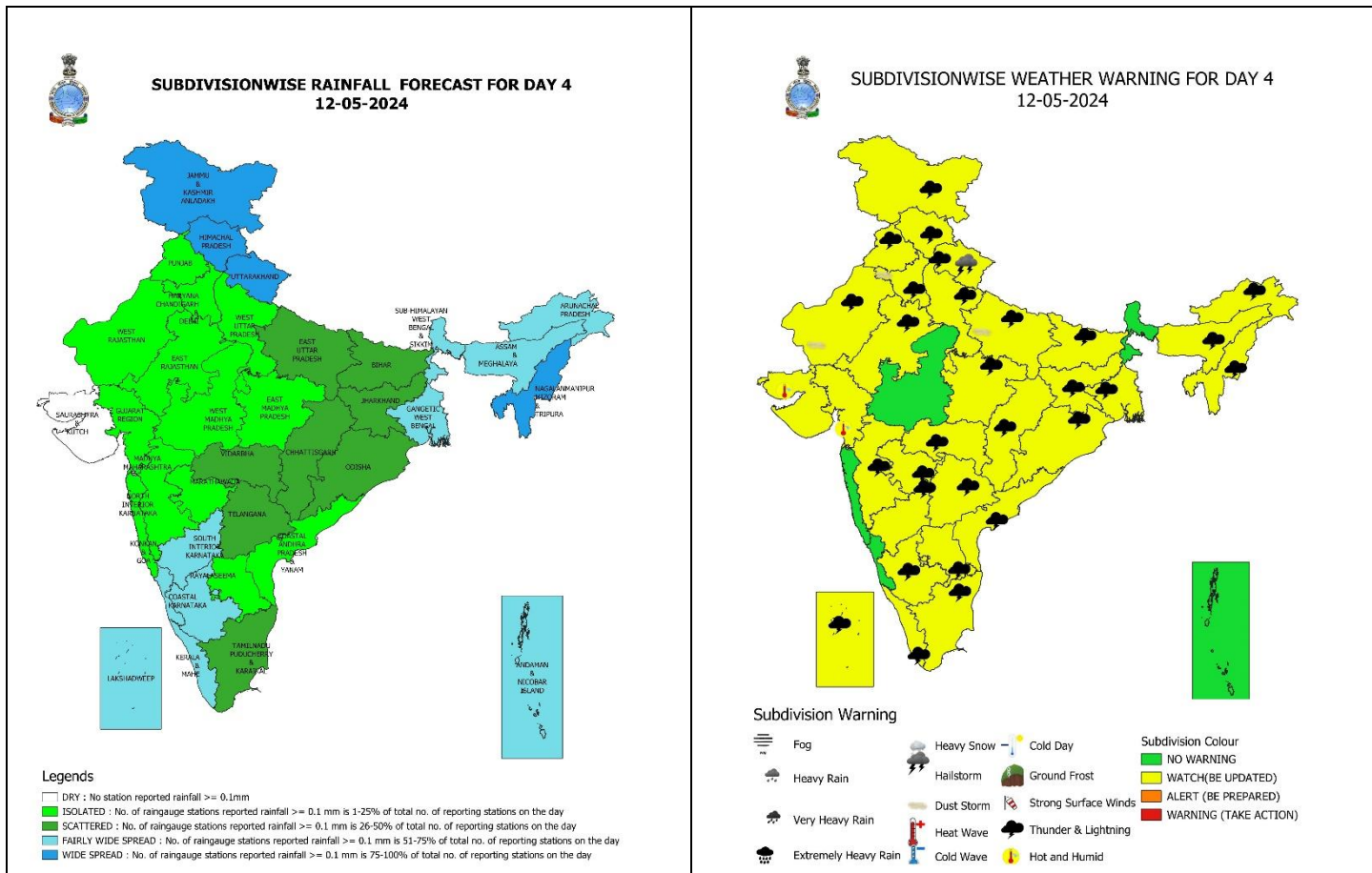
10 May (Day 2):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm** very likely at isolated places over Uttarakhand; **with lightning & squally winds (speed reaching 50-60 kmph gusting to 70 kmph)** at isolated places Gangetic West Bengal; **with lightning, gusty winds (speed reaching 40-50 kmph)** at isolated places over Bihar, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim and Jharkhand; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Punjab, East Madhya Pradesh, Vidarbha, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh and Kerala & Mahe.
- ❖ **Dust Storm/Thunderstorm with gusty winds (speed 40-50 kmph)** very likely in isolated pockets over Rajasthan; **with gusty winds (speed 30-40 kmph)** in isolated pockets over in isolated pockets over Haryana-Chandigarh-Delhi and Uttar Pradesh.
- ❖ **Heavy rainfall** very likely at isolated places over Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Hot and humid weather** very likely to prevail over coastal areas of Gujarat and Kerala & Mahe.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over West Rajasthan and West Madhya Pradesh.



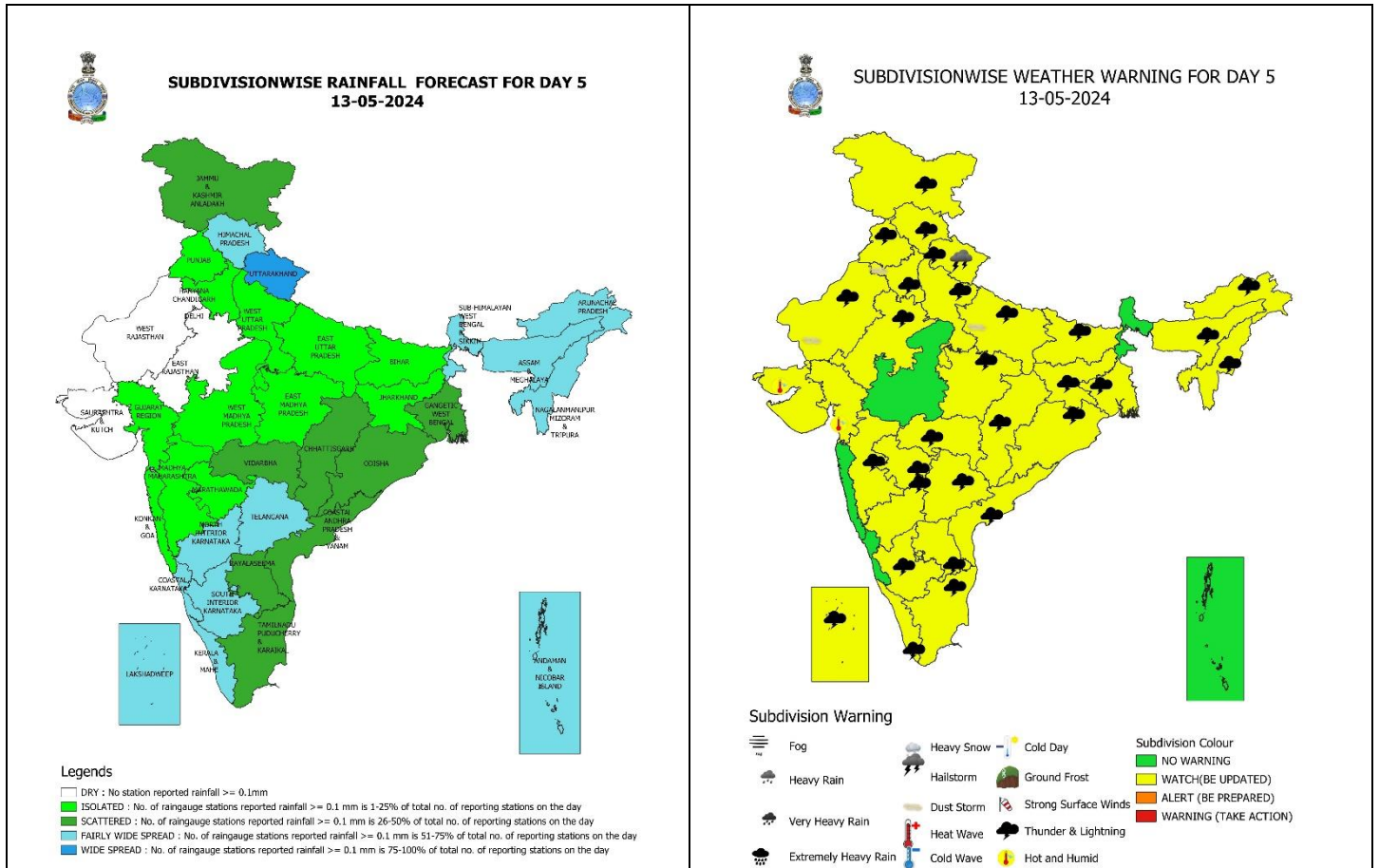
11 May (Day 3):

- ❖ **Thunderstorm accompanied with lightning, squally winds (speed reaching 50-60 kmph gusting to 70 kmph) & hailstorm** likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over East Rajasthan, Chhattisgarh, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Punjab, East Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Interior Karnataka; **with lightning** at isolated places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Arunachal Pradesh, Assam & Meghalaya and Lakshadweep.
- ❖ **Dust Storm/Thunderstorm with gusty winds (speed 40-50 kmph)** likely in isolated pockets over West Uttar Pradesh and West Rajasthan; **with gusty winds (speed 30-40 kmph)** in isolated pockets over in isolated pockets over Haryana-Chandigarh-Delhi and East Uttar Pradesh.
- ❖ **Heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Hot and humid weather** likely to prevail over coastal areas of Gujarat.



12 May (Day 4):

- ❖ **Thunderstorm accompanied with lightning, squally winds (speed reaching 50-60 kmph gusting to 70 kmph) & hailstorm** likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over East Rajasthan, Chhattisgarh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Telangana; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Punjab, East Madhya Pradesh, Vidarbha, Odisha, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka; **with lightning** at isolated places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Lakshadweep.
- ❖ **Dust Storm/Thunderstorm with gusty winds (speed 40-50 kmph)** likely in isolated pockets over West Rajasthan; **with gusty winds (speed 30-40 kmph)** in isolated pockets over in isolated pockets over Haryana-Chandigarh-Delhi and Uttar Pradesh.
- ❖ **Hot and humid weather** likely to prevail over coastal areas of Gujarat.

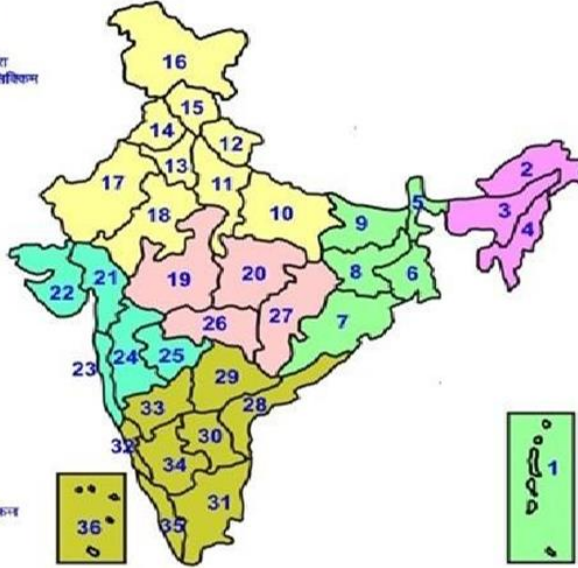


13 May (Day 5):

- ❖ **Thunderstorm accompanied with lightning, squally winds (speed reaching 50-60 kmph gusting to 70 kmph) & hailstorm** likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over East Rajasthan, Chhattisgarh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Telangana; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Punjab, East Madhya Pradesh, Vidarbha, Odisha, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka; **with lightning** at isolated places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Lakshadweep.
- ❖ **Dust Storm/Thunderstorm with gusty winds (speed 40-50 kmph)** likely in isolated pockets over West Rajasthan; **with gusty winds (speed 30-40 kmph)** in isolated pockets over in isolated pockets over Haryana-Chandigarh-Delhi and Uttar Pradesh.
- ❖ **Hot and humid weather** likely to prevail over coastal areas of Gujarat.

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 उत्तरी कर्नाटक
- 32 दक्षिणी कर्नाटक
- 33 उत्तरी कर्नाटक
- 34 दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. 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



Rain/ Snow *

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



Heat Wave

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

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

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

(b). Based on Actual maximum temperature

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

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

(c). Criteria for heat wave for coastal stations

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



Warm Night

When maximum temperature remains 40°C

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

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



Cold Wave

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

(a). Based on departure

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

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

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

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

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

(c) For Coastal Stations

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



Cold Day

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

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

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



Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres



Thunderstorm

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



Dust/Sand Storm

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



Frost

Ice deposits on ground

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



Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

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

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

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



Cyclone

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

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

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

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

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

* Red 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)