

Wednesday, May 8, 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 northeast Madhya Pradesh in lower tropospheric levels. Strong southwesterly/southerly winds from Bay of Bengal to East & Northeast India are very likely to continue to prevail at lower tropospheric levels during next 3-4 days. Under their influence:
 - ✓ 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.
 - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & squally winds (40-50 kmph)** very likely over West Bengal & Sikkim during 08th - 12th; scattered to fairly widespread rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** over Bihar, Jharkhand, Odisha during 08th- 12th; isolated to scattered rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** over Marathwada on 08th; over West Madhya Pradesh on 09th & 10th; over East Madhya Pradesh, Vidarbha and Chhattisgarh during 08th- 12th May, 2024.
 - ✓ **Isolated heavy rainfall** very likely over Arunachal Pradesh & Assam & Meghalaya during 10th- 12th; over Odisha on 08th & 09th; over West Bengal & Sikkim on 10th May, 2024.
 - ✓ **Hailstorm activity** very likely over Vidarbha on 08th May, 2024.
- ❖ A trough/wind discontinuity runs from east Vidarbha to north Tamil Nadu in lower tropospheric levels. Under its 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 Karnataka during next 5 days; scattered to fairly widespread rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** over Kerala & Mahe during 08th - 12th May, 2024.
 - ✓ **Isolated heavy rainfall very likely over Coastal Andhra Pradesh & Yanam, Rayalaseema on 08th; over Tamil Nadu, Puducherry & Karaikal on 08th & 09th, over Kerala & Mahe on 08th, 11th & 12th and over South Interior Karnataka on 08th May, 2024.**
- ❖ A fresh Western Disturbance likely to affect northwest India from 09th May. 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.
 - ✓ Isolated light to moderate rainfall very likely over Haryana-Chandigarh, Punjab and Rajasthan on 11th & 12th; over Uttar Pradesh during 09th - 12th May, 2024.
 - ✓ **Duststorm/thunderstorm with gusty winds (30-40 kmph)** likely to prevail over East Uttar Pradesh on 08th & 09th; over Haryana and Rajasthan on 10th & 11th May, 2024.
 - ✓ **Strong surface winds (30-40 kmph)** very likely to prevail over Uttar Pradesh, south Rajasthan during next 2 days.

Maximum temperature observation:

- ❖ Yesterday, maximum temperatures were in the range of 43-45°C over many parts of West Rajasthan; some parts of East Rajasthan; isolated pockets of West Uttar Pradesh, Madhya Pradesh, Vidarbha and Telangana and in the range of 40-42°C over many parts of Punjab, Haryana-Chandigarh-Delhi, Marathwada & Rayalaseema; some parts of West Uttar Pradesh & Gujarat state; isolated pockets of Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal. These were either near normal or above normal by 2-3°C over these areas.

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

- ❖ **Heat wave conditions** in isolated pockets over Interior Karnataka on 08th; over East Rajasthan on 08th & 09th; over West Rajasthan and West Madhya Pradesh during 08th - 10th May, 2024.
- ❖ **Hot and humid weather** very likely to prevail in isolated pockets over Gujarat Region during next 5 days; Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe on 08th May, 2024.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Odisha and Coastal Andhra Pradesh & Yanam; at a few places over Assam & Meghalaya; at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Vidarbha, Telangana and Andaman & Nicobar Islands.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **Chhattisgarh:** Jagdalpur 4, **Andaman & Nicobar Islands:** Mayabandar-4; **East Madhya Pradesh:** Malanjkhanda-3, Seoni-1; **Coastal Andhra Pradesh & Yanam:** Nandigama-3, Tuni, Visakhapatnam- 1 each; **Bihar:** Motihari-2; **Odisha:** Nabarangpur, Koraput-1 each; **Vidarbha:** Chandrapur-1;
- ❖ **Minimum Temperature Departures (as on 07-05-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at a few places over West Rajasthan; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, West Uttar Pradesh, Gujarat Region, Telangana, Vidarbha, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. These were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Gangetic West Bengal; **below normal (-1.6°C to -3.0°C)** at most places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Assam & Meghalaya; at isolated places over Odisha, Chhattisgarh and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 15.5°C** was reported at **Dehri (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 07-05-2024):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Kerala & Mahe; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and East Rajasthan; **above normal (1.6°C to 3.0°C)** at most places over Punjab; at many places over West Rajasthan; at a few places over Haryana-Chandigarh-Delhi, West Madhya Pradesh and Lakshadweep; at isolated places over West Uttar Pradesh, East Madhya Pradesh, Madhya Maharashtra, Telangana, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands. These were **markedly below normal (-5.1°C or less)** at many places over Odisha, at a few places over Assam & Meghalaya; at isolated places over Bihar; **appreciably below normal (-3.1°C to -5.0°C)** at many places over East Uttar Pradesh and Jharkhand, at a few places over Gangetic West Bengal and Chhattisgarh; at isolated places over Vidarbha; **below normal (-1.6°C to -3.0°C)** at isolated places over Sub-Himalayan West Bengal & Sikkim and Coastal Andhra Pradesh & Yanam and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 45.2°C** was reported at **Barmer (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The cyclonic circulation over northeast Assam & neighbourhood between 1.5 km & 5.8 km above mean sea level persists.
- ❖ The cyclonic circulation over Bangladesh & neighbourhood persists and now extends upto 3.1 km above mean sea level.
- ❖ The cyclonic circulation over northeast Madhya Pradesh & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The trough now runs from north Interior Odisha to southeast Rajasthan across south Chhattisgarh, Vidarbha & southwest Madhya Pradesh at 0.9 km above mean sea level.
- ❖ The trough/wind discontinuity from east Vidarbha to north Tamil Nadu across Telangana & Interior Karnataka extending upto 1.5 km above mean sea level persists.
- ❖ A fresh Western Disturbance likely to affect northwest India from 09th May, 2024.

Weather Forecast for next 7 days (Upto 0830 hours IST of 15th 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 plains of Northwest India (except West Rajasthan where temperatures are likely to rise by 2-3°C during next 2 days).
- ❖ Fall in maximum temperatures by about 2-3°C very likely over Maharashtra during next 3 days no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 15th-17th May, 2024)

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

Table-1

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

Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.
For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599
(Service to the Nation since 1875)

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

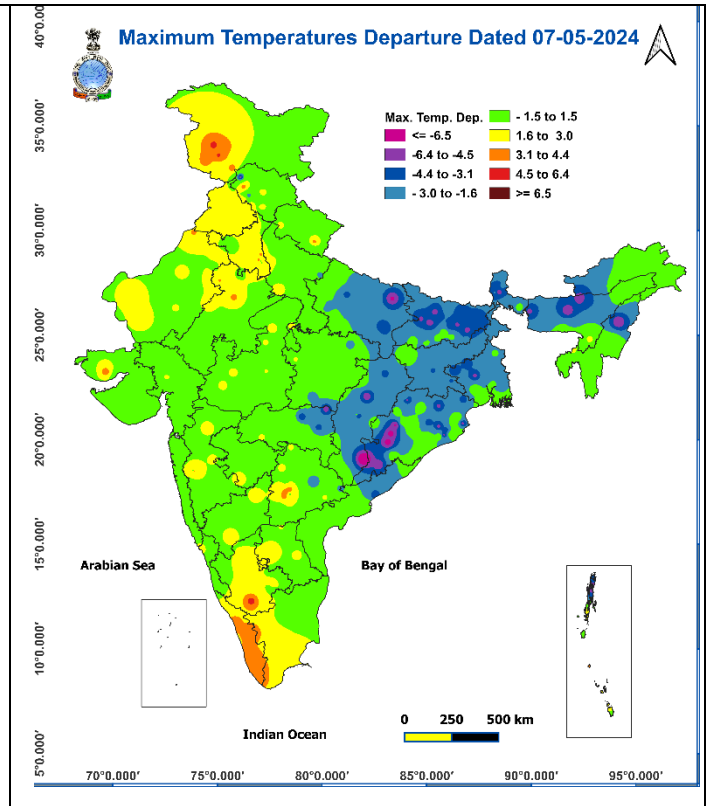
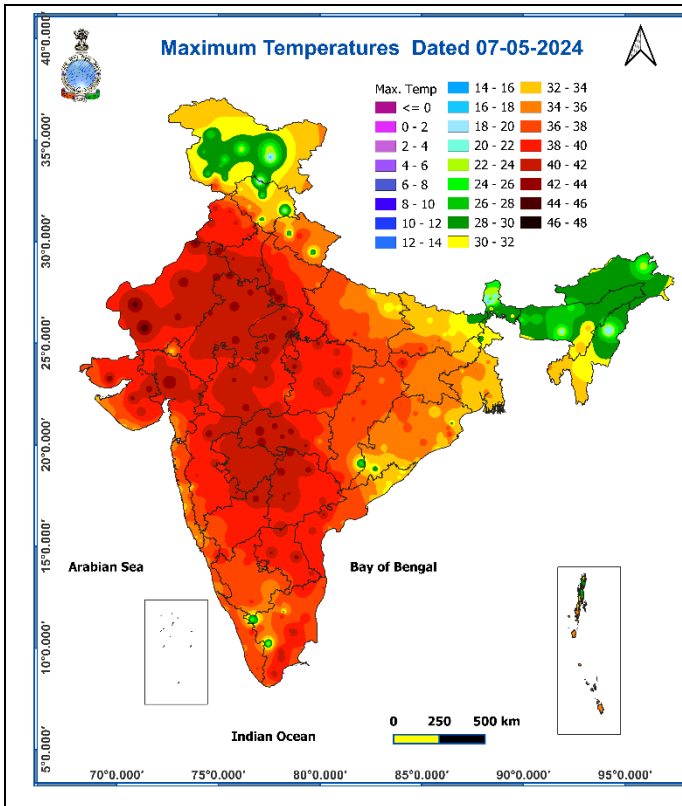


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

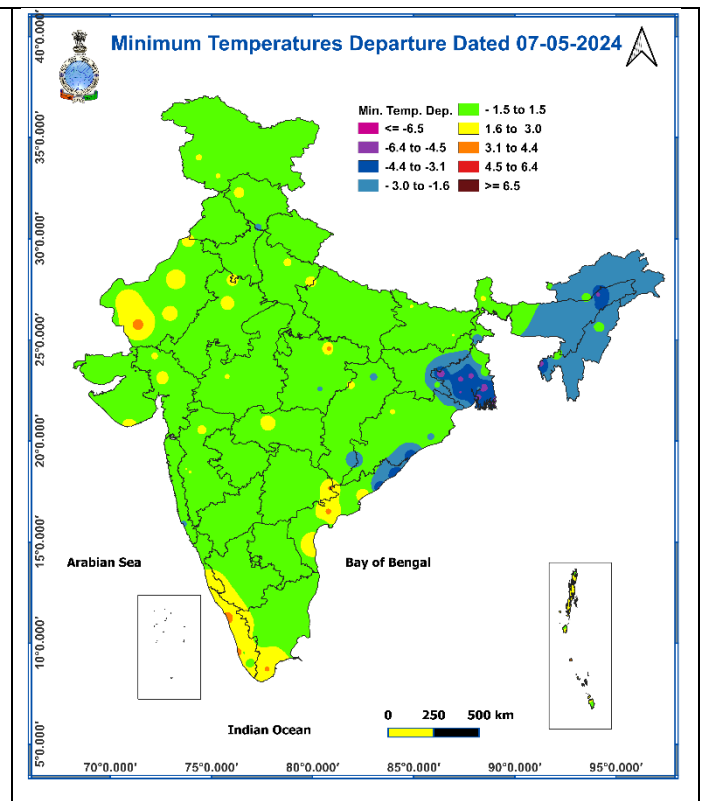
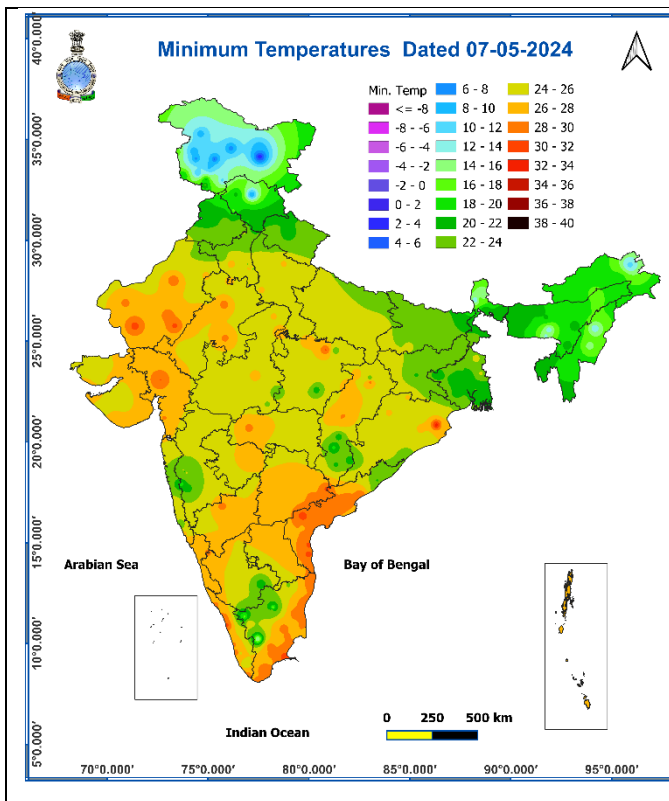
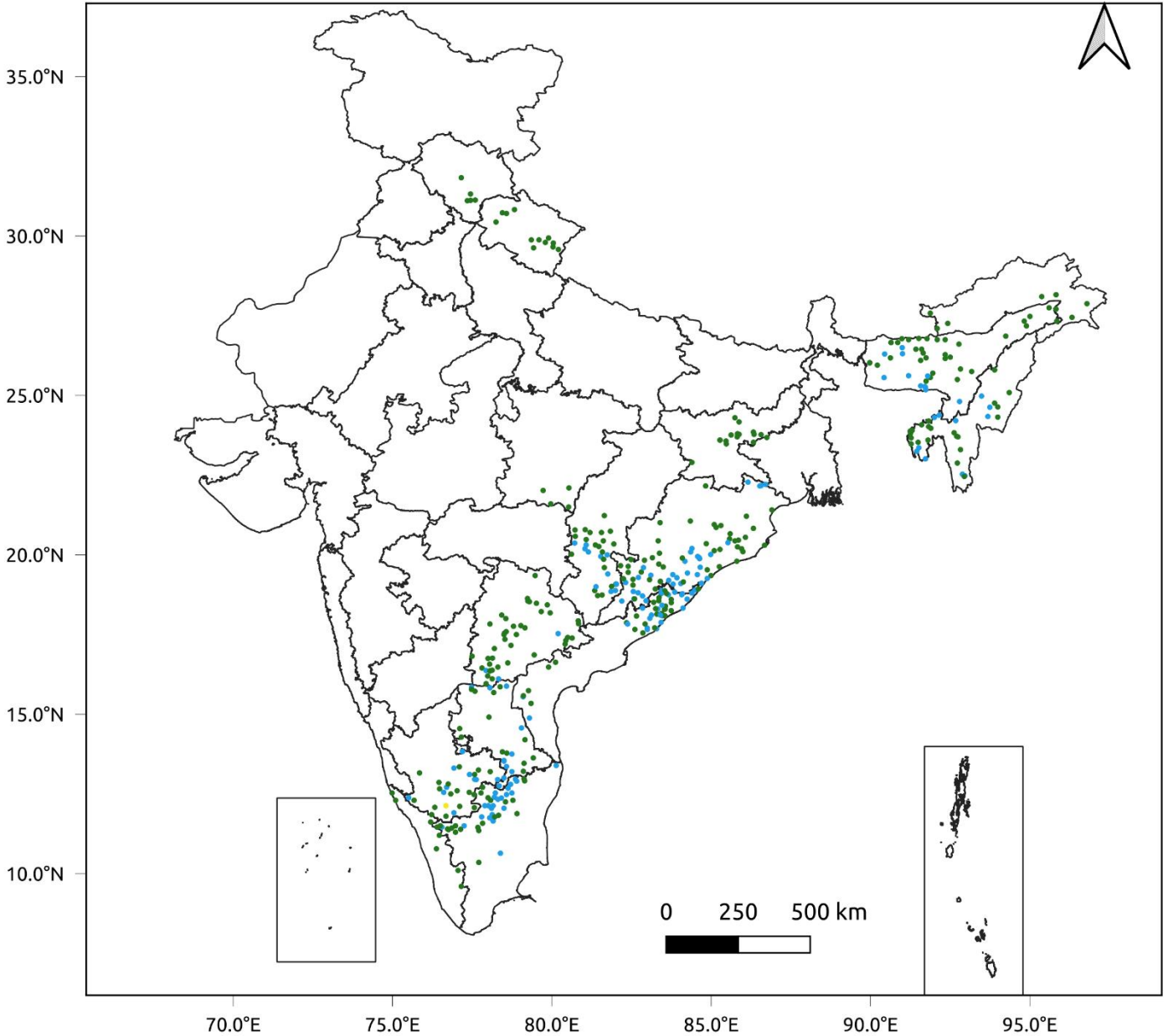


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

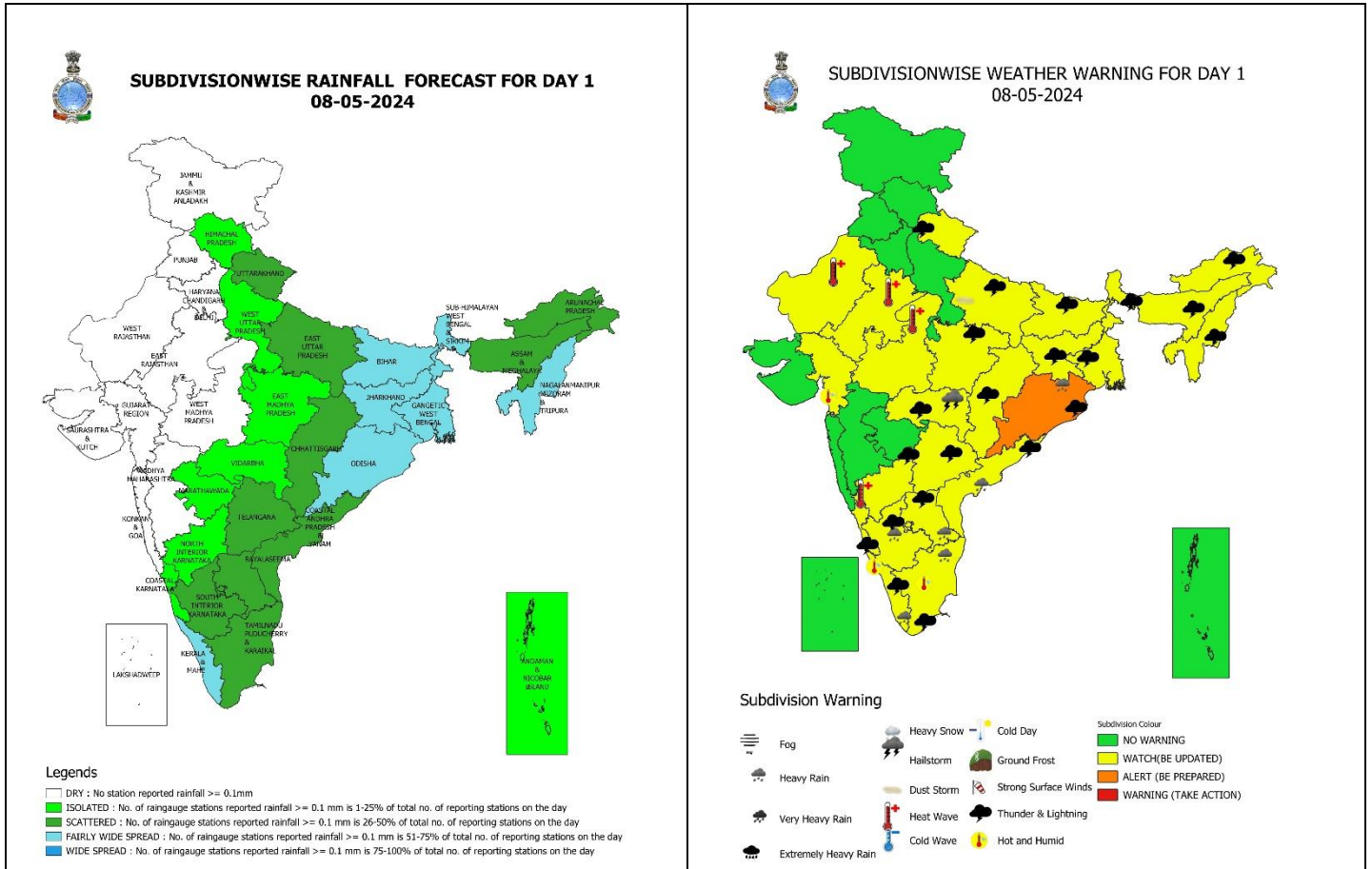


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 6-5-2024 to 0830 IST of 7-5-2024



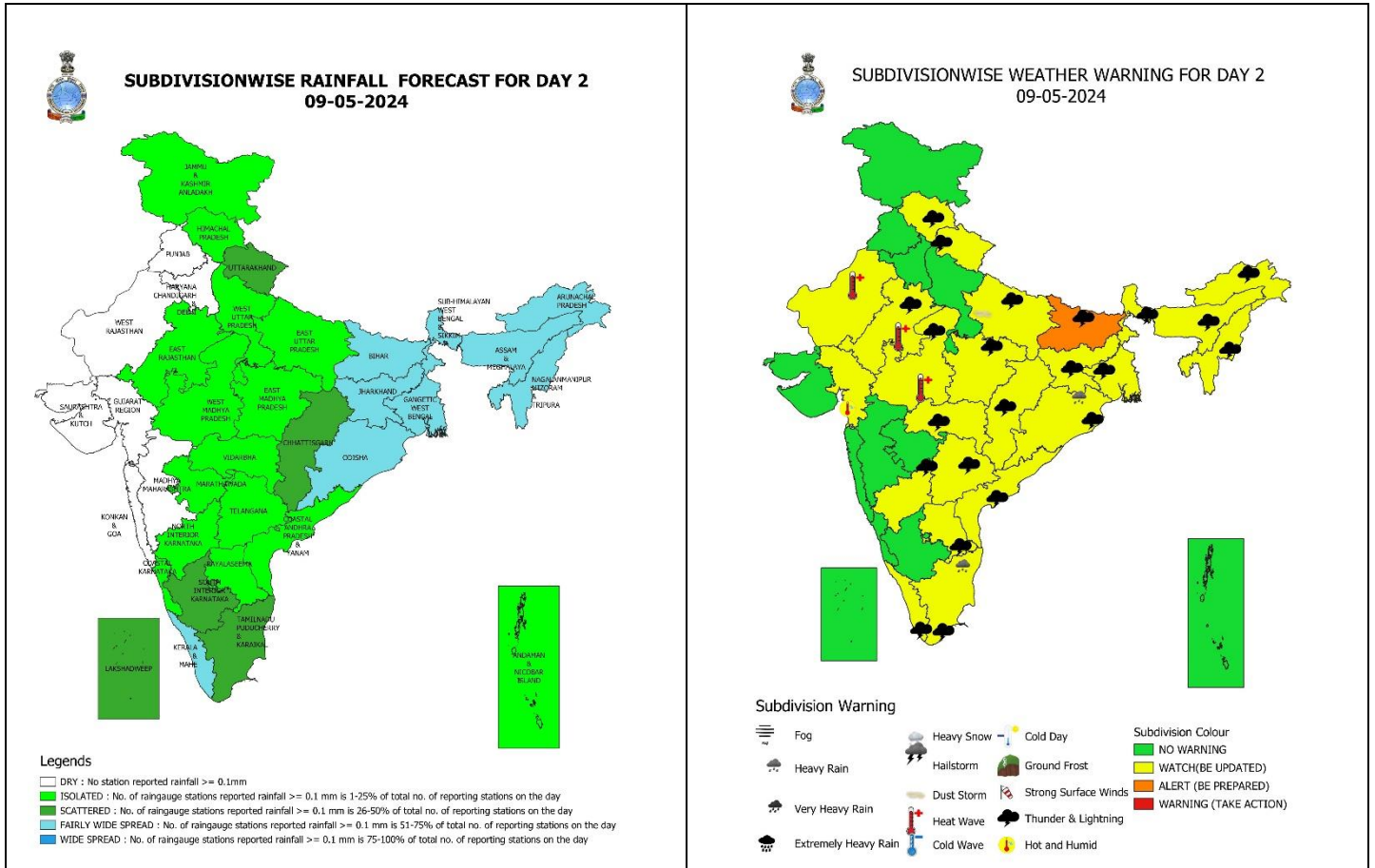
Legends

- 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)



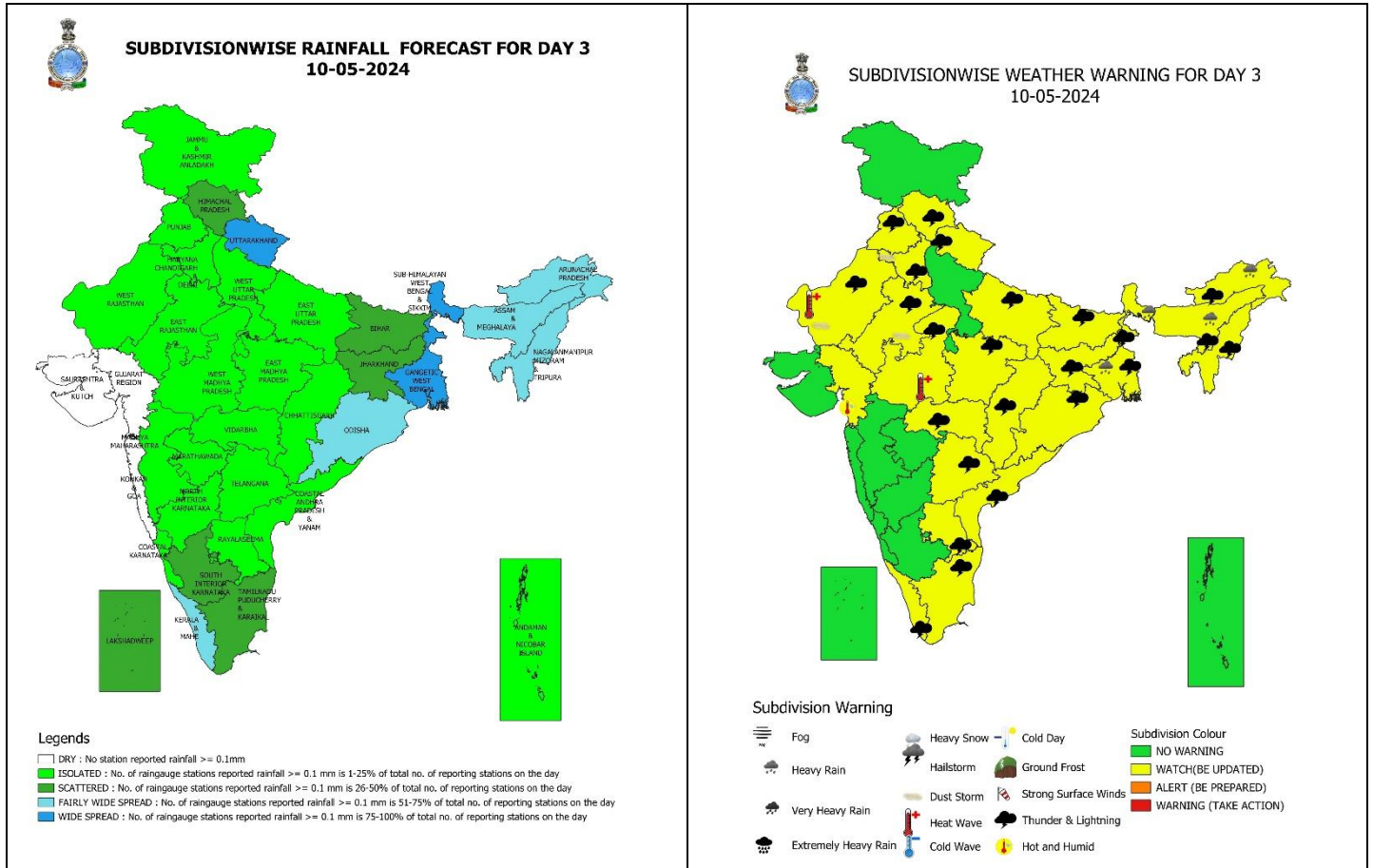
08 May (Day 1):

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



09 May (Day 2):

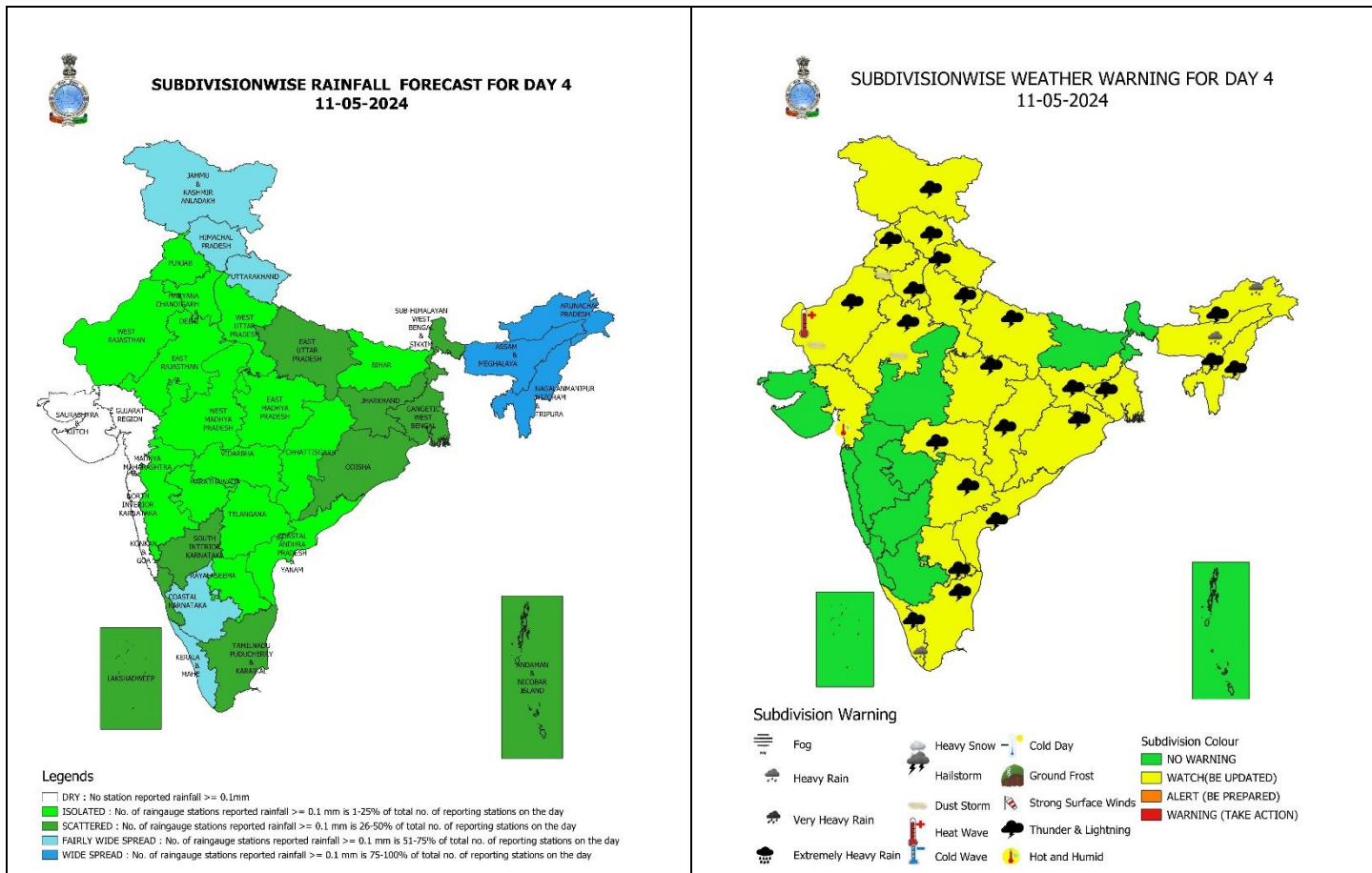
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 50-60 kmph)** very likely at isolated places over Bihar; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam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



10 May (Day 3):

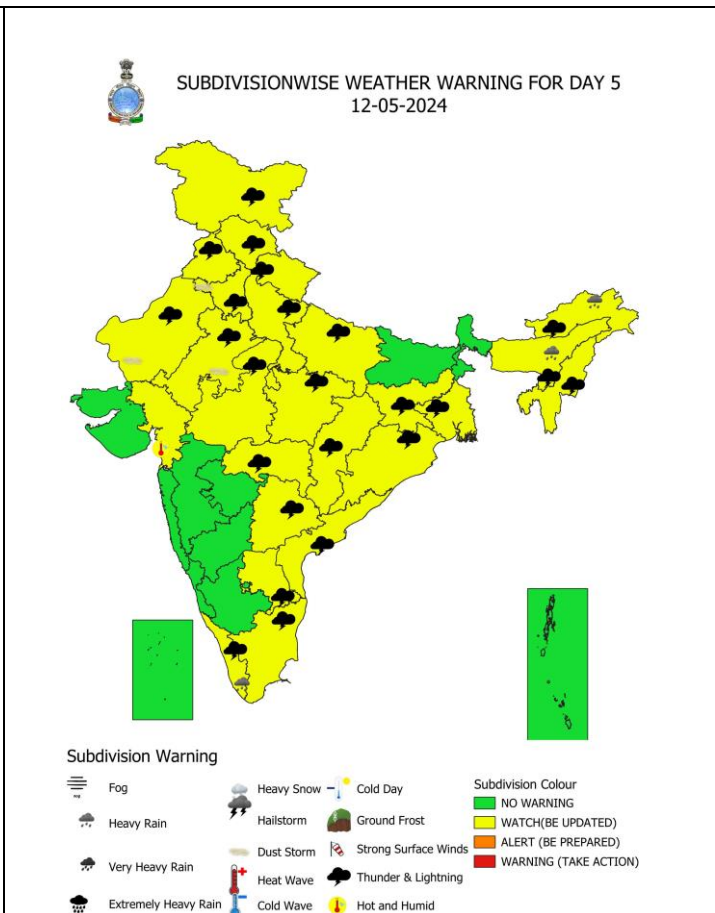
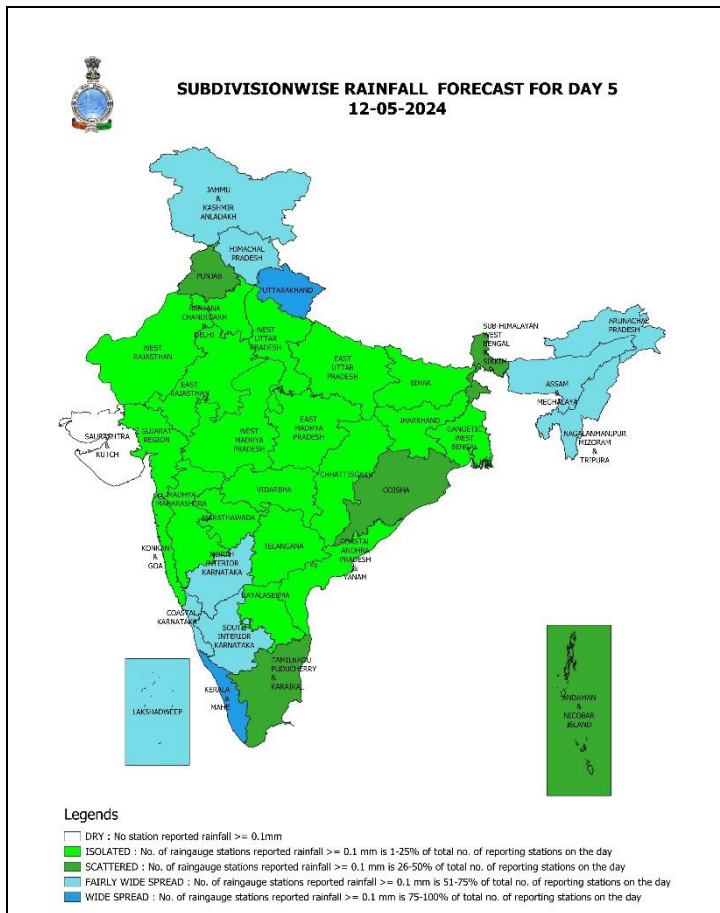
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 50-60 kmph)** likely at isolated places over West Bengal & Sikkim; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Chhattisgarh; **with lightning & gusty winds (speed reaching 30-40 kmph)**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

* 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)



11 May (Day 4):

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

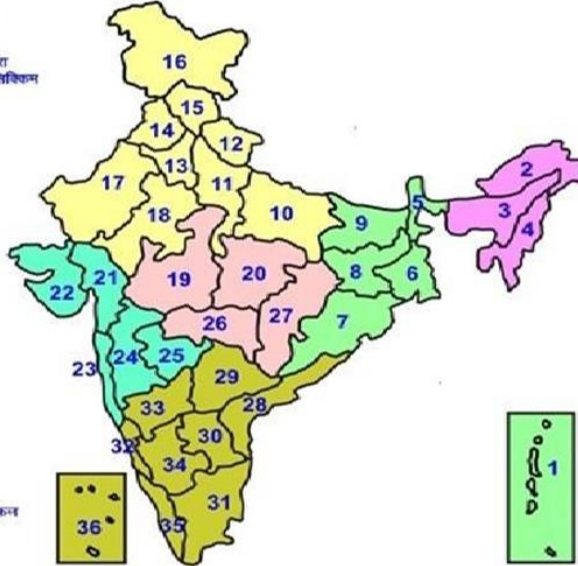


12 May (Day 5):

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

LEGENDS

- 1 अंडमन और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप-हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखण्ड
- 13 हरियाणा, चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात
- 22 सौराष्ट्र
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तमिलनाडु, पुदुचेरी एवं कराईकल
- 31 उत्तर कर्नाटक
- 32 दक्षिण कर्नाटक
- 33 उत्तर कर्नाटक
- 34 दक्षिण कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnada, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

WARNING

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)