

Monday, May 13, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- ❖ A Western Disturbance as a trough in middle tropospheric westerlies runs roughly along long. 73°E to the north of lat. 32°N. A cyclonic circulation lies over West Uttar Pradesh and another over south Rajasthan in lower tropospheric levels. Under their influence:
 - Isolated rainfall activity very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 13th & 14th May, 2024.
 - Isolated to scattered light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** very likely over Rajasthan during 13th -16th May, 2024.
 - **Duststorm/thunderstorm with gusty winds (30-40 kmph)** very likely to prevail at isolated places over East Rajasthan and East Uttar Pradesh on 13th May, 2024.
 - **Strong surface winds (30-40 kmph)** very likely to prevail over plains of Uttar Pradesh and south Rajasthan during next 24 hours.
- ❖ A north-south trough/Wind Discontinuity runs from East Madhya Pradesh to Comorin area and a Cyclonic Circulation lies over South Interior Karnataka and Another east-west trough runs from West Uttar Pradesh to south Assam in lower tropospheric levels. Under their influence:
 - Scattered to Fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & squally winds (40-50 kmph)** very likely over Vidarbha, Madhya Maharashtra, Marathwada and Gujarat region on 13th and Isolated to scattered light to moderate rainfall accompanied with **thunderstorm, lightning & squally winds (40-60 kmph)** very likely over Madhya Pradesh and Chhattisgarh during next 5 days. Isolated **Hailstorm activity** very likely over Madhya Pradesh during 13th-14th; Vidarbha, Chhattisgarh, Madhya Maharashtra and Marathwada on 13th May, 2024. **Isolated heavy rainfall very likely over Konkan & Goa and Madhya Maharashtra on 13th & 14th May, 2024.**
 - Scattered to Fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & squally winds (40-50 kmph)** very likely over Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands during next 7 days; Odisha during 13th-15th; Gangetic West Bengal on 13th and Isolated to scattered light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** over Bihar and Jharkhand during 13th-14th May, 2024. **Isolated heavy rainfall very likely over Odisha on 13th & 14th May, 2024.**
 - Scattered to Fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & squally winds (40-50 kmph)** likely over Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Karnataka during next 7 days and Isolated to scattered light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** over Rayalaseema and Lakshadweep during the same period. **Isolated heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 13th-16th; Interior Karnataka on 13th and coastal Karnataka on 13th & 16th May, 2024.**
- ❖ A cyclonic circulation lies over northeast Assam and another over southeast Assam in lower tropospheric levels. Under their influence:
 - Scattered to Fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & squally winds (30-40 kmph)** very likely over Arunachal Pradesh, Assam, Meghalaya, Nagaland, Manipur, Mizoram and Tripura during 13th -15th and likely to increase to fairly widespread to widespread rainfall during 16th -18th May, 2024.
 - **Isolated heavy rainfall also likely over Arunachal Pradesh and Assam & Meghalaya on 16th May, 2024.**

Maximum temperature observation:

- ❖ **Areas having maximum temperatures greater than 40°C:** Yesterday, maximum temperatures were in the range of 40-42°C over many parts of West Rajasthan, East Madhya Pradesh & Vidarbha; in some parts of West Madhya Pradesh, Chhattisgarh, Gujarat Region & Rayalaseema and in isolated pockets of East Rajasthan, Saurashtra & Kutch and Telangana.

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

- ❖ **Hot and humid weather** very likely to prevail over Saurashtra & Kutch during next 5 days.
- ❖ **Heat wave conditions** likely over West Rajasthan, West Uttar Pradesh and South Haryana on 16th May, 2024.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Jammu division; at a few places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim; at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Bihar, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Marathwada, Madhya Maharashtra, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Odisha and Chhattisgarh.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **Odisha:** Daringabadi-3; **Jammu Division:** Pahalgam, Kukernag and Quazigund- 2 each, Gulmarg, Kupwara and Bhaderwah-1 each; **Tamil Nadu, Puducherry & Karaikal:** Yercaud-2, Selam and Tiruppattur- 1; **Bihar:** Purnea- 1; **Vidarbha:** Wardha-1; **South Interior Karnataka:** Chitradurga-1; **Coastal Andhra Pradesh & Yanam:** Amravati-1.
- ❖ **Minimum Temperature Departures (as on 12-05-2024):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Gujarat Region, Vidarbha, Lakshadweep and Andaman & Nicobar Islands; at isolated places over West Rajasthan, Bihar, West Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal. These were **markedly below normal (-5.1°C or less)** at isolated places over Gangetic West Bengal and Odisha; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over East Rajasthan; **below normal (-1.6°C to -3.0°C)** at a few places over Jharkhand; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, East Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh & Madhya Maharashtra and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 15.0°C was reported at **Dehri (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 12-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places Arunachal Pradesh and Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at isolated places over Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe. These were **markedly below normal (-5.1°C or less)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim; at isolated places over Bihar, Gangetic West Bengal, Vidarbha and Madhya Maharashtra; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Punjab, East Madhya Pradesh, Marathwada and Chhattisgarh; **below normal (-1.6°C to -3.0°C)** at most places over Jharkhand, at many places over Odisha and Telangana; at a few places over West Uttar Pradesh, Coastal Andhra Pradesh & Yanam and North Interior Karnataka; at isolated places over Uttarakhand, Haryana-Chandigarh-Delhi, Rajasthan, West Madhya Pradesh and Konkan & Goa and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 43.2°C was reported at **Hoshangabad (West Madhya Pradesh)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Western Disturbance as a cyclonic circulation over north Pakistan & neighbourhood now lies over Jammu & Kashmir and neighbourhood at 3.1 km above mean sea level with the trough aloft in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along long. 73°E to the north of lat. 32°N.
- ❖ The cyclonic circulation over West Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The east-west trough from above cyclonic circulation over West Uttar Pradesh to south Assam across East Uttar Pradesh, Bihar and Sub-Himalayan West Bengal at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over south Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over east Jharkhand & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over southeast Assam & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The Trough/Wind Discontinuity from East Madhya Pradesh to Comorin area across Vidarbha, Marathwada, Interior Karnataka & Tamil Nadu at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over South Interior Karnataka & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over south Pakistan & adjoining Northeast Arabian Sea at 1.5 km above mean sea level persists.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan Region from 17th May, 2024.

Weather Forecast for next 7 days (Upto 0830 hours IST of 20th May, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Light to moderate thunderstorm accompanied with lightning likely over Gujarat Region on 15th & 16th May, 2024.
- ❖ Rise in maximum temperatures by about 3-5°C very likely over Northwest India during next 4 days.
- ❖ No significant change in maximum temperatures very likely over many parts of East India during next 24 hours and rise by about 2-4°C thereafter during subsequent 3 days.
- ❖ Fall by 2-4°C in maximum temperatures very likely over Maharashtra and Karnataka during next 2-3 days and 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 20th-22nd May, 2024)

- ❖ Isolated to scattered light/moderate rainfall likely over Islands, 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	13-May	14-May	15-May	16-May	17-May	18-May	19-May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	SCT	SCT	FWS	FWS	WS	WS
2	ARUNACHAL PRADESH	FWS	FWS	FWS	WS	WS	WS	WS
3	ASSAM & MEGHALAYA	SCT	SCT	FWS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	SCT	SCT	FWS	FWS	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	SCT	FWS	FWS	SCT	SCT	SCT
6	GANGETIC WEST BENGAL	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
7	ODISHA	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
9	BIHAR	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	ISOL	DRY	DRY	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	ISOL	DRY	DRY	DRY	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
19	WEST MADHYA PRADESH	SCT	SCT	ISOL	ISOL	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
21	GUJARAT REGION	SCT	SCT	ISOL	ISOL	ISOL	DRY	DRY
22	SAURASHTRA & KUTCH	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	SCT	SCT	ISOL	ISOL	ISOL
29	TELANGANA	SCT	SCT	SCT	SCT	SCT	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	SCT	SCT	FWS	SCT	SCT	SCT
32	COASTAL KARNATAKA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	FWS	FWS	SCT	SCT	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
35	KERALA & MAHE	FWS	FWS	FWS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	SCT	SCT	SCT	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

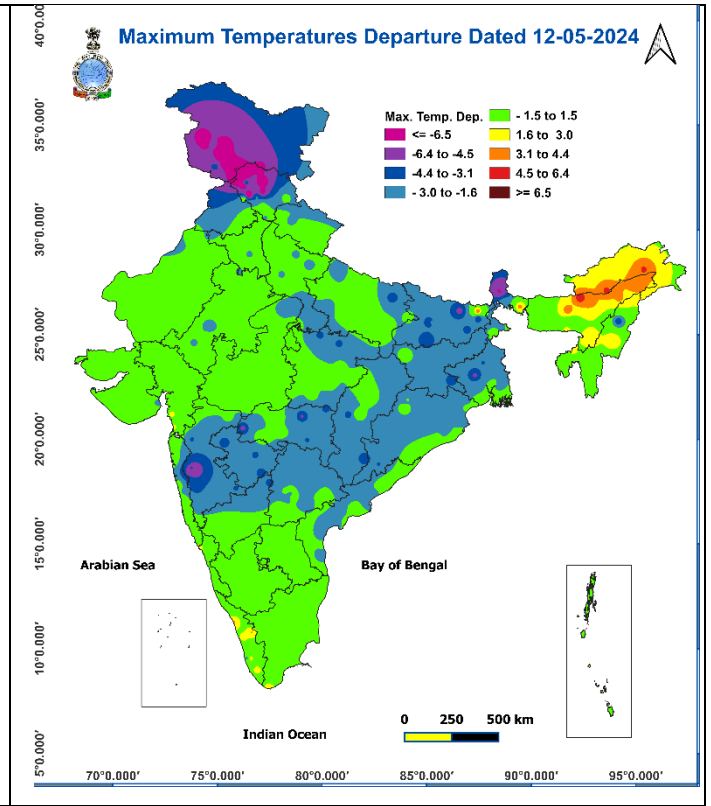
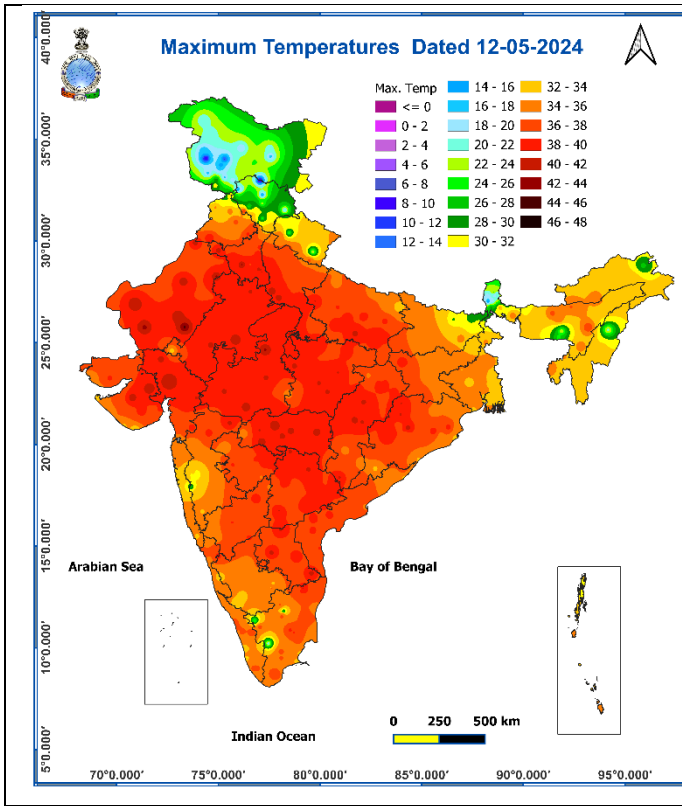


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

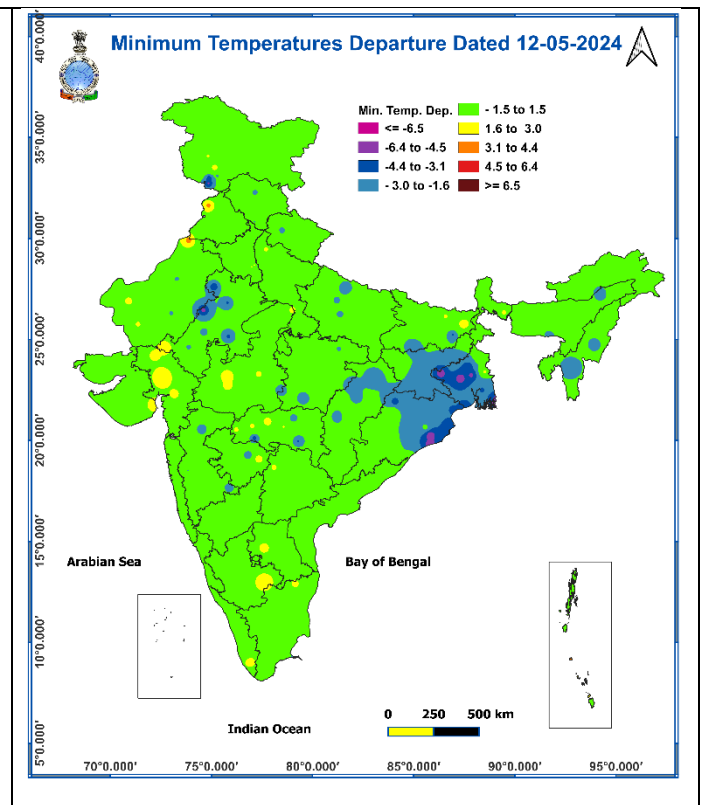
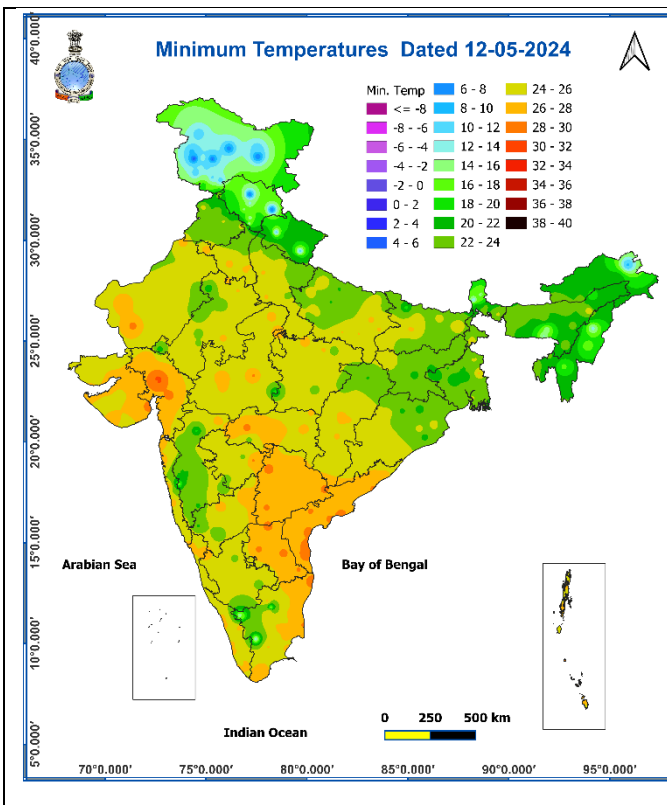
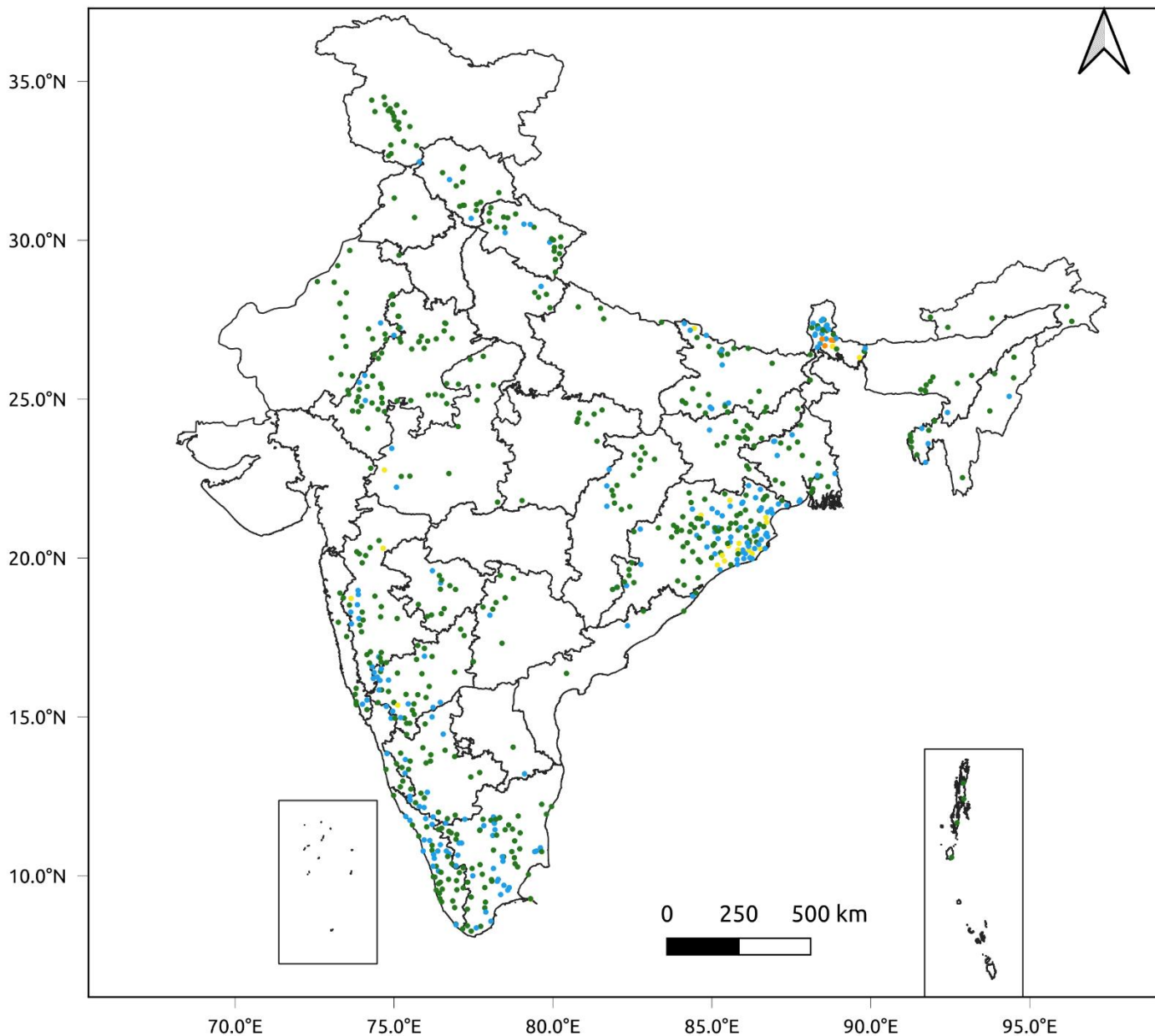


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

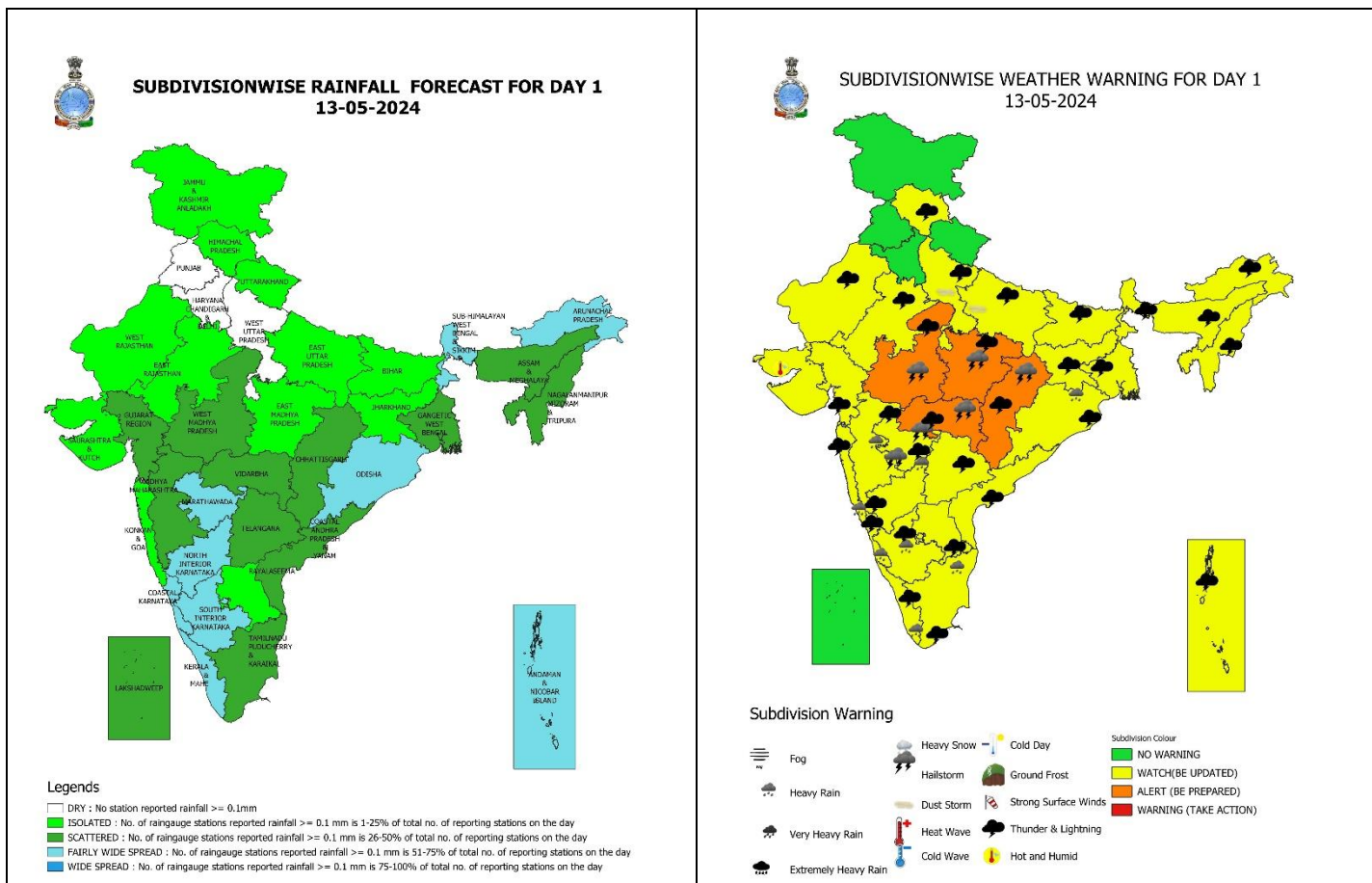


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 11-5-2024 to 0830 IST of 12-5-2024



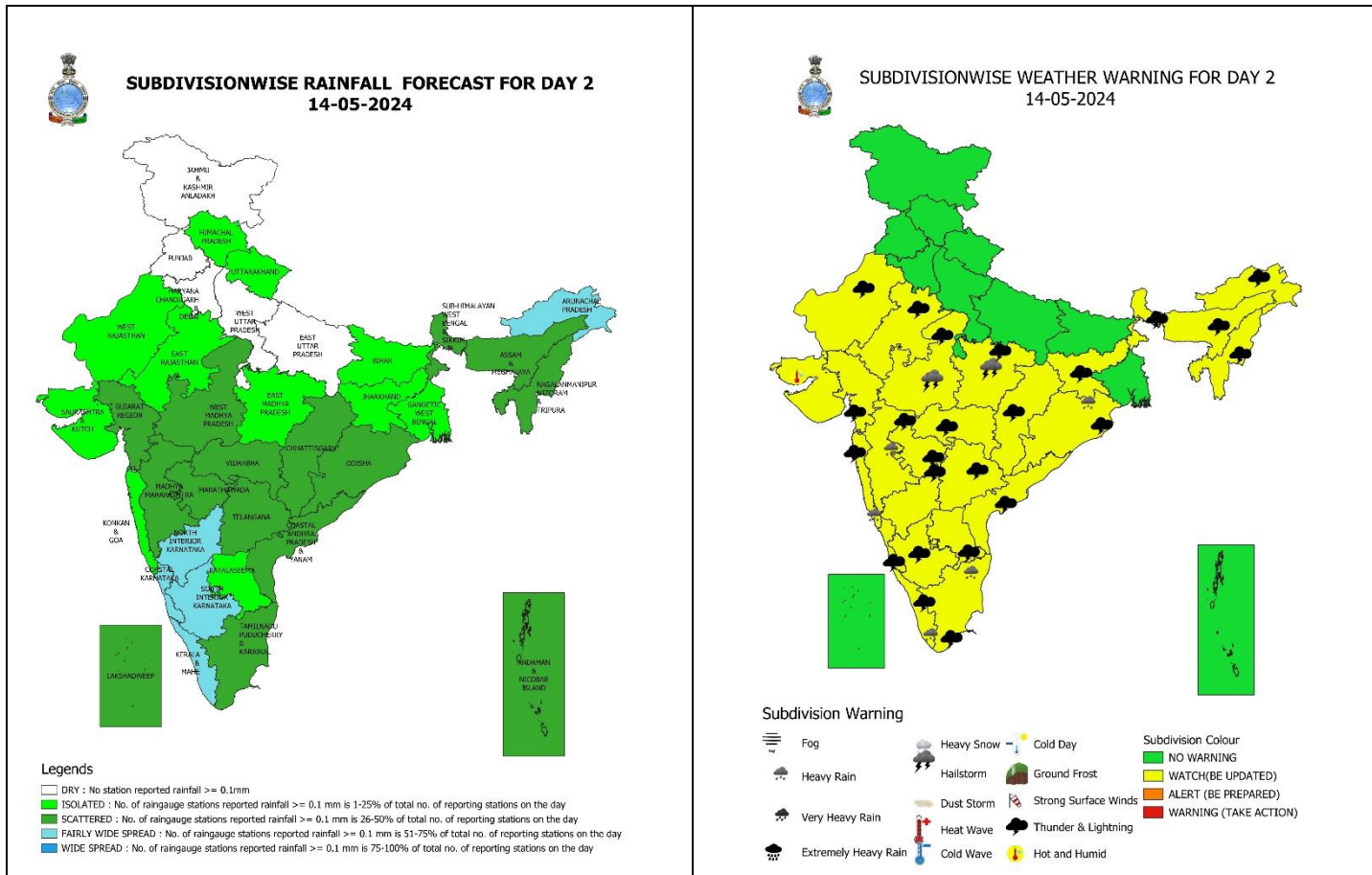
Legends

- 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)



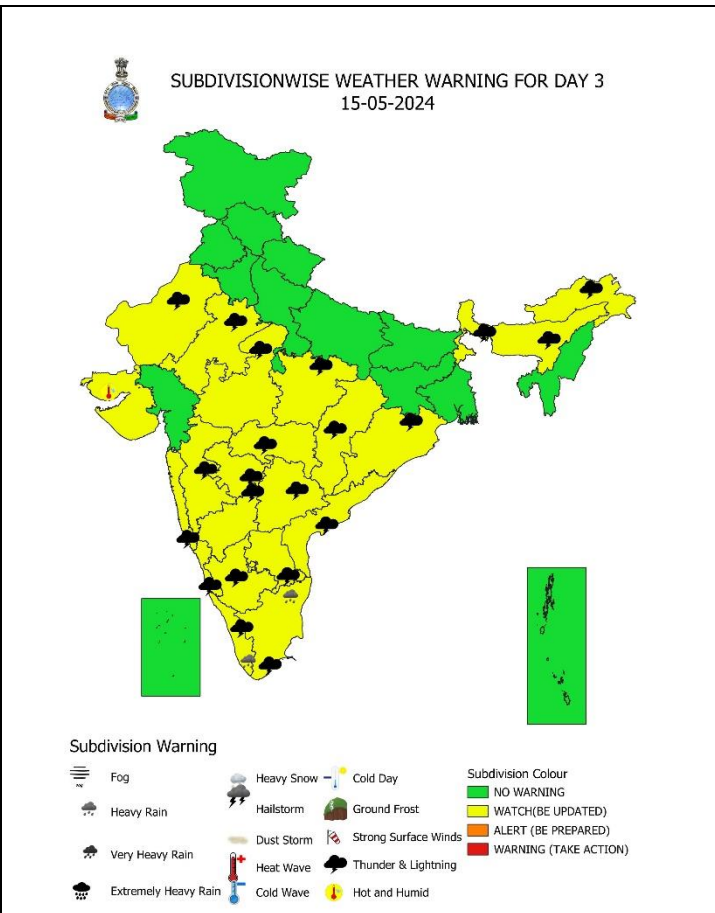
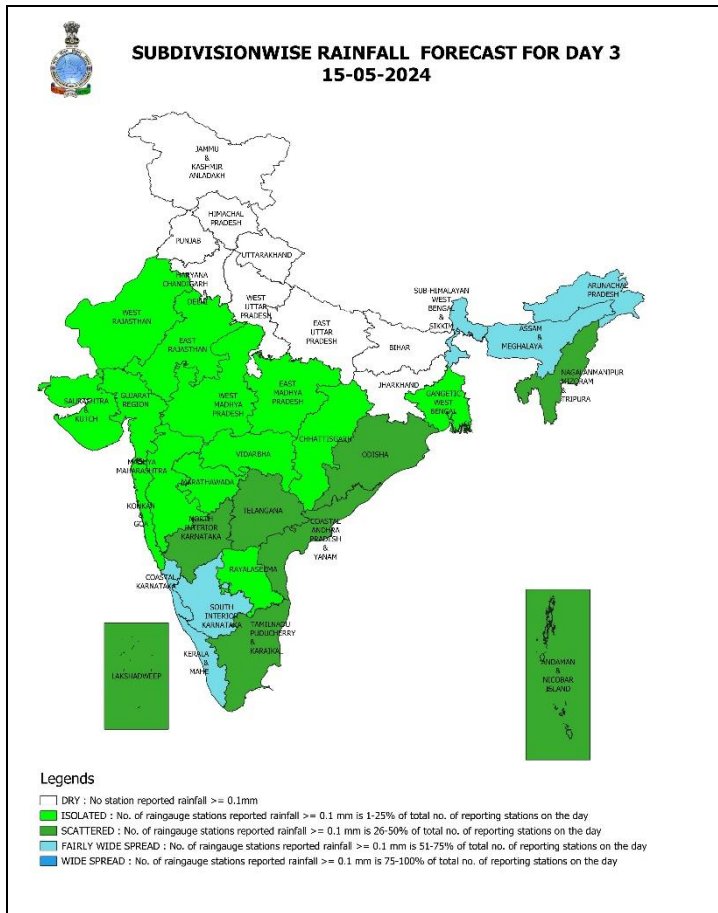
13 May (Day 1):

- ❖ **Thunderstorm accompanied with lightning, squally winds (speed reaching 60-70 kmph) & hailstorm** very likely at isolated places over West Madhya Pradesh; **with lightning, squally winds (speed reaching 50-60 kmph) & hailstorm** very likely at isolated places over East Madhya Pradesh; **with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm** at isolated places over Vidarbha and Chhattisgarh; **with lightning, gusty winds (speed reaching 30-40 kmph) & hailstorm** at isolated places over Madhya Maharashtra and Marathwada; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Interior Karnataka and Kerala & Mahe; **with lightning, gusty winds (speed reaching 30-40 kmph)** at isolated places over West Bengal & Sikkim, Jharkhand, Bihar, Nagaland, Manipur, Mizoram & Tripura, Rajasthan, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka; **with lightning** at isolated places over Andaman & Nicobar Islands, Andaman & Nicobar Islands, Himachal Pradesh, Gujarat Region and Konkan & Goa.
- ❖ **Dust Storm/Thunderstorm with gusty winds (speed 30-40 kmph)** very likely at isolated places over Uttar Pradesh.
- ❖ **Heavy rainfall** very likely at isolated places over Odisha, Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Karnataka and Kerala & Mahe.
- ❖ **Hot and humid weather** very likely to prevail over Saurashtra & Kutch.



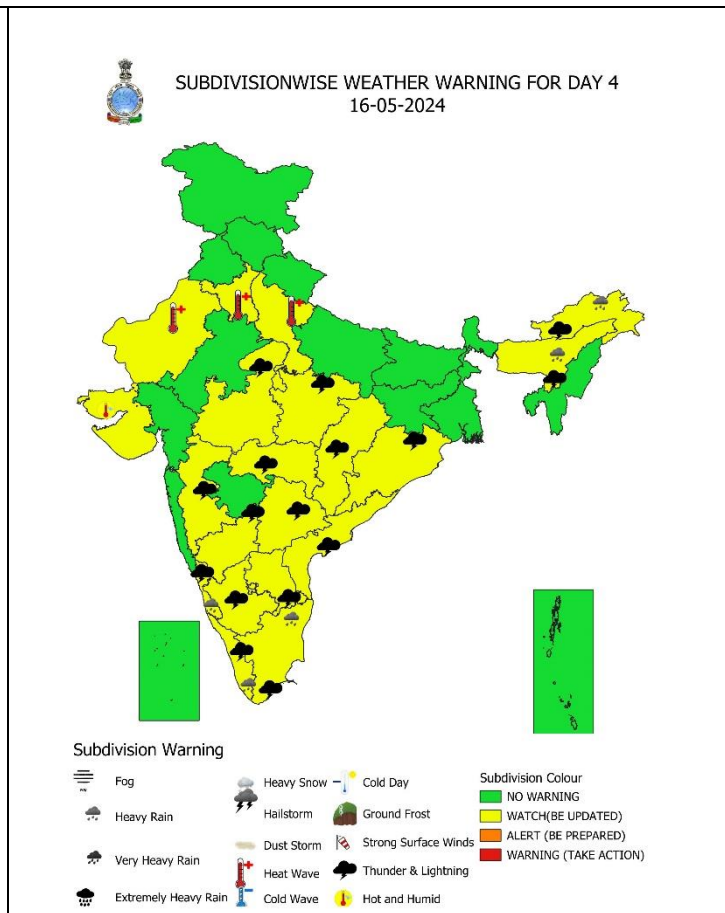
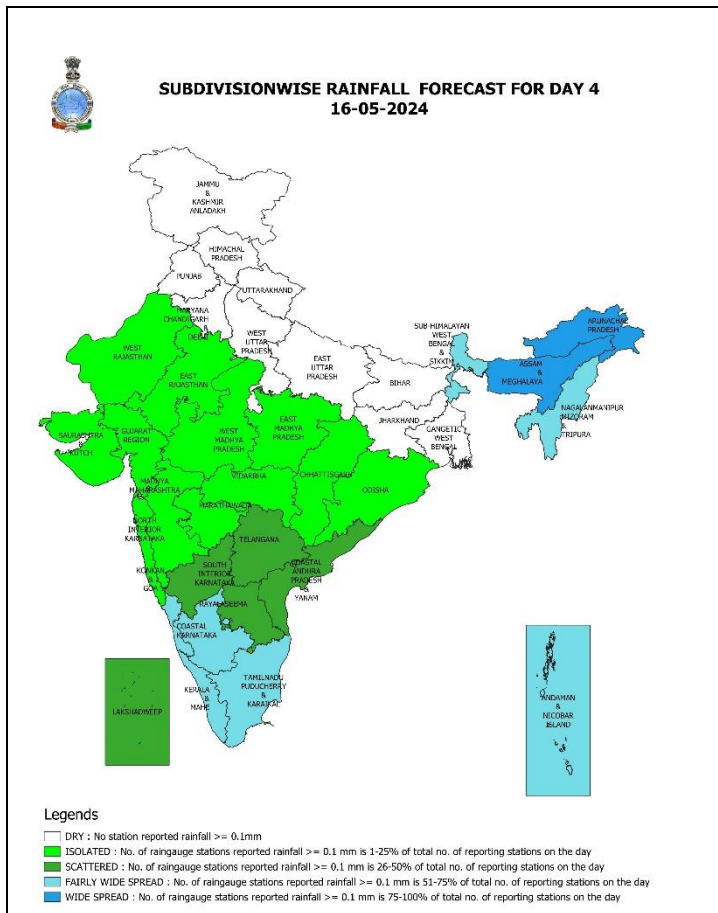
14 May (Day 2):

- ❖ **Thunderstorm accompanied with lightning, squally winds (speed reaching 50-60 kmph) & hailstorm** very likely at isolated places over West Madhya Pradesh; **with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm** at isolated places over East Madhya Pradesh; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Chhattisgarh, Coastal Andhra Pradesh & Yanam, Interior Karnataka and Kerala & Mahe; **with lightning, gusty winds (speed reaching 30-40 kmph)** at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Rajasthan, Vidarbha, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Konkan & Goa, Madhya Maharashtra and Marathwada.
- ❖ **Heavy rainfall** very likely at isolated places over Odisha, Konkan & Goa, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Hot and humid weather** very likely to prevail over Saurashtra & Kutch.



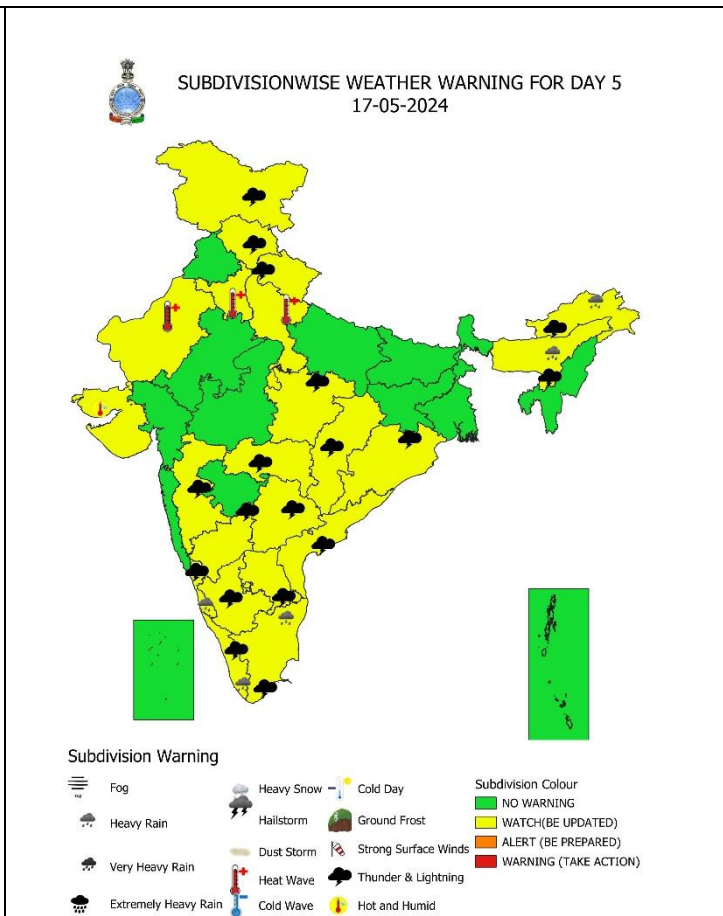
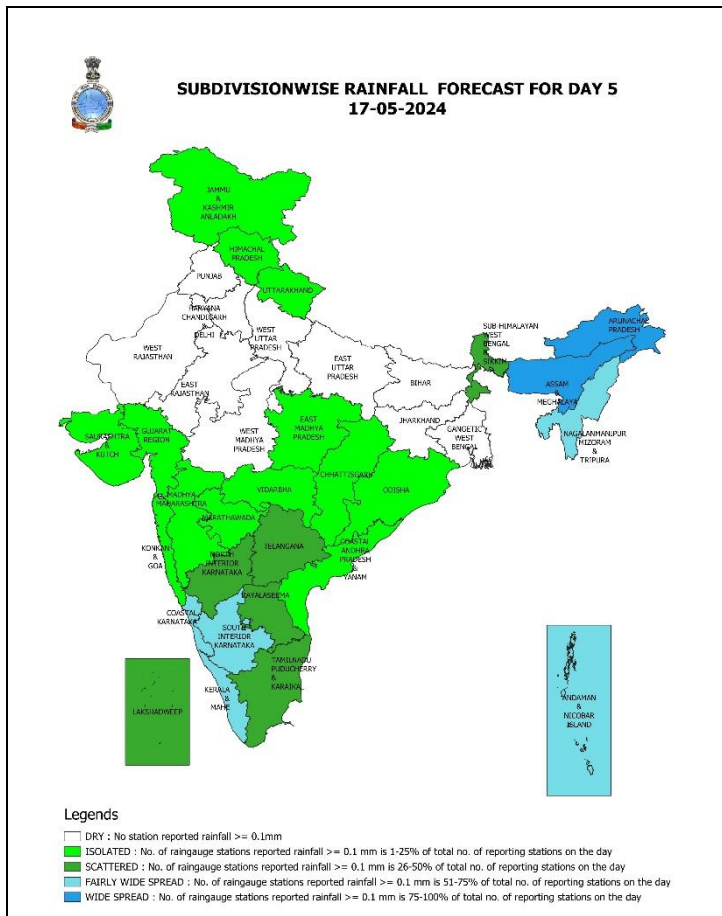
15 May (Day 3):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Interior Karnataka; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Telangana, Rayalaseema, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **with lightning** at isolated places Odisha, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra and Marathwada.
- ❖ **Heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Hot and humid weather** likely to prevail over Saurashtra & Kutch.



16 May (Day 4):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Chhattisgarh, Coastal Andhra Pradesh & Yanam and Interior Karnataka; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Madhya Pradesh, Vidarbha, Telangana, Rayalaseema, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **with lightning** at isolated places Odisha, Arunachal Pradesh, Assam & Meghalaya and Madhya Maharashtra.
- ❖ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heat Wave Conditions** likely to prevail in isolated pockets over West Uttar Pradesh, south Haryana and West Rajasthan.
- ❖ **Hot and humid weather** likely to prevail over Saurashtra & Kutch.



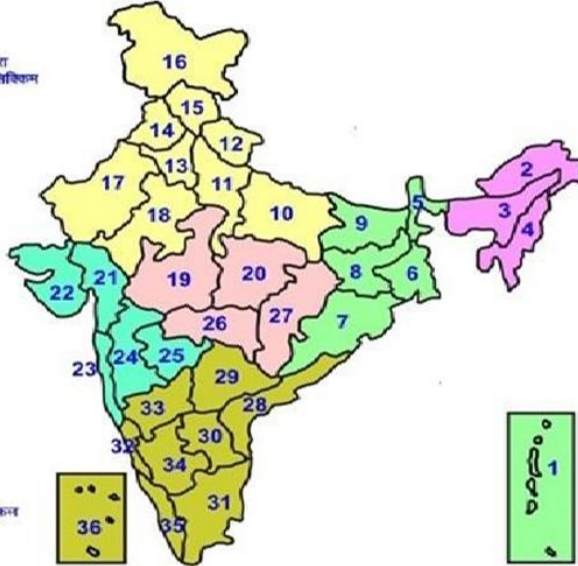
17 May (Day 5):

- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Chhattisgarh, Coastal Andhra Pradesh & Yanam and Interior Karnataka; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over East Madhya Pradesh, Vidarbha, Telangana, Rayalaseema, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; **with lightning** at isolated places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Odisha, Arunachal Pradesh, Assam & Meghalaya and Madhya Maharashtra.
- ❖ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heat Wave Conditions** likely to prevail in isolated pockets over West Uttar Pradesh, south Haryana and West Rajasthan.
- ❖ **Hot and humid weather** likely to prevail over Saurashtra & Kutch.

* 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)

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)