

Tuesday, May 14, 2024
Time of Issue: 0745 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- ❖ A cyclonic circulation lies over South Interior Karnataka and a trough runs from this cyclonic circulation to northwest Madhya Pradesh in lower tropospheric levels. Another cyclonic circulation lies over Comorin area in lower tropospheric levels. Under their influence:
 - Isolated to scattered light to moderate rainfall accompanied with **thunderstorm, lightning & squally winds (40-60 kmph)** very likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra and Marathwada during next 4 days and accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Gujarat region on 14th May. Isolated **Hailstorm activity** very likely at isolated places over Madhya Pradesh on 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 on 14th and Isolated to scattered light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** over Bihar and Jharkhand on 14th May, 2024. **Isolated heavy rainfall also likely over Sub-Himalayan West Bengal & Sikkim on 18th May, 2024.**
 - Scattered to Fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & squally winds (40-50 kmph)** very likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Karnataka during next 6-7 days and isolated to scattered light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema during the same period. **Isolated heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 14th-18th; Coastal Karnataka and South Interior Karnataka during 14th-16th May, 2024.**
- ❖ A cyclonic circulation lies over northeast Assam in lower tropospheric levels. Under its influence:
 - Scattered 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 on 14th and likely to increase to fairly widespread to widespread rainfall during 15th-18th May, 2024.
 - **Isolated heavy rainfall also likely over Arunachal Pradesh on 16th & 17th and Assam & Meghalaya on 17th May, 2024.**
- ❖ A Western Disturbance seen as a trough in middle tropospheric westerlies roughly along long. 79°E to the north of lat. 32°N. A fresh Western Disturbance likely to affect western Himalayan region from 17th May. Under their influence:
 - Isolated rainfall activity very likely over Himachal Pradesh and Uttarakhand on 14th May, 2024.
 - Isolated light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (40-50 kmph)** very likely over Rajasthan on 14th May, 2024.
 - A fresh spell of isolated rainfall activity likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 17th-20th May, 2024.

Maximum temperature observation:

- ❖ **Areas having maximum temperatures greater than 40°C:** Yesterday, maximum temperatures were in the range of 40-42°C in some parts of Rajasthan, Madhya Pradesh, Gujarat state & south Haryana and in isolated pockets of East Uttar Pradesh, Rayalaseema & Vidarbha.

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

- ❖ **Heat wave conditions** likely over West Rajasthan during 15th-18th; West Uttar Pradesh, Punjab, East Rajasthan and south Haryana during 16th-18th; East Uttar Pradesh on 16th & 17th; northwest Madhya Pradesh on 17th & 18th and Bihar on 17th May, 2024.
- ❖ **Hot and humid weather** very likely to prevail over Saurashtra & Kutch during next 5 days.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Kerala & Mahe; **at a few places** over Uttarakhand and **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Bihar, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, West Madhya Pradesh, Jharkhand, Tamil Nadu, Puducherry & Karaikal, Konkan & Goa and Madhya Maharashtra.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Kerala:** Alappuzha, Pathanamthitta-7 each, Periakulam-4; **Tamil Nadu-** Erode-2, Yercaud-1; **Maharashtra:** Mumbai Suburban-4, Raigad-3.
- ❖ **Heavy Rainfall** observed (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Kerala.
- ❖ **Maximum wind speed** (from 0830 hours IST to 1730 hours IST of yesterday) (in kmph): **Konkan:** Santacruz-59, Colaba- 51.
- ❖ **Minimum Temperature Departures (as on 13-05-2024):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at isolated places over West Rajasthan, Gujarat Region, Madhya Maharashtra and Konkan & Goa. These were **markedly below normal (-5.1°C or less)** at isolated places over Telangana; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Himachal Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Chhattisgarh, Vidarbha; at a few places over Marathwada, Odisha, East Madhya Pradesh; at isolated places over West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 15.2°C was reported at **Dehri (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 13-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at isolated places over Tamil Nadu, Puducherry & Karaikal, Konkan & Goa, West Rajasthan & Haryana-Chandigarh-Delhi. These were **markedly below normal (-5.1°C or less)** at isolated places over Vidarbha, Telangana; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Madhya Maharashtra, Marathwada, Rayalaseema, Coastal Andhra Pradesh & Yanam, East Madhya Pradesh, East Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over West Madhya Pradesh; at isolated places over West Uttar Pradesh and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 43.1°C was reported at **Kota (East Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The trough aloft in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along long. 79°E to the north of lat. 32°N.
- ❖ The cyclonic circulation over east Jharkhand & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over South Interior Karnataka & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over South Interior Karnataka to northwest Madhya Pradesh across Madhya Maharashtra at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over northwest Madhya Pradesh & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Comorin Area between 1.5 & 3.1 km above mean sea level persists.
- ❖ Moderate to intense convection lies over Southeast & adjoining Eastcentral Bay of Bengal in association with a feeble cyclonic circulation at lower level as observed in Oceansat-3 image.
- ❖ **Southwest Monsoon** is very likely to advance into South Andaman Sea, some parts of Southeast Bay of Bengal and Nicobar Islands around 19th May, 2024.
- ❖ 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 21st May, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Gradual rise by about 3-5°C in maximum temperatures very likely over many parts of Northwest & East India during next 5 days.
- ❖ No significant change in maximum temperatures very likely over many parts of West & Central India during next 24 hours and rise by about 2-4°C for subsequent 4 days.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 21st-23rd May, 2024)

- ❖ Isolated to scattered light/moderate rainfall likely over Islands, Western Himalayan Region, Northeast & south Peninsular India.
- ❖ Rainfall intensity likely to increase over Andaman & Nicobar Islands from 18th may.
- ❖ Dry weather likely to prevail over rest parts of the country.

Table-1

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

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

* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.
For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599
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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

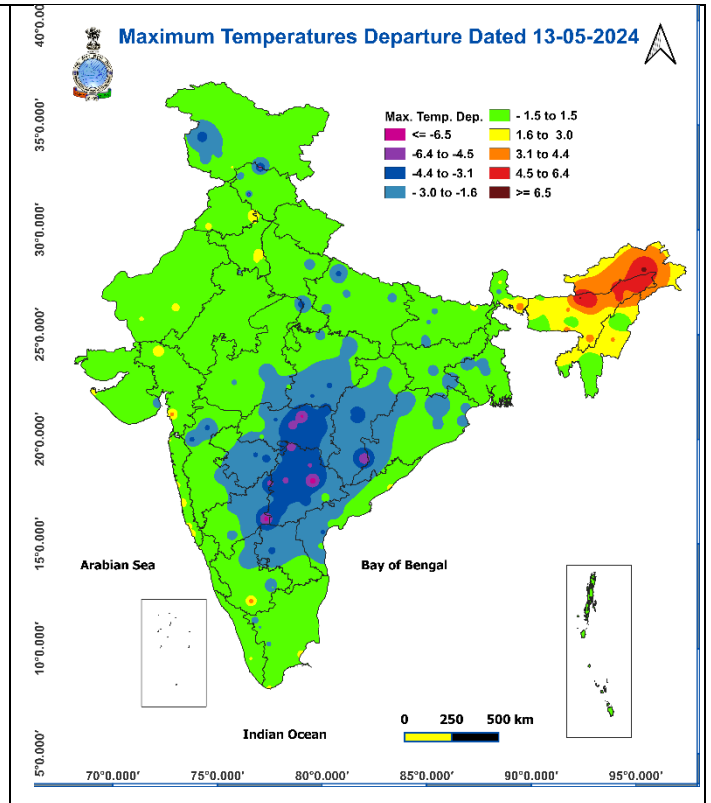
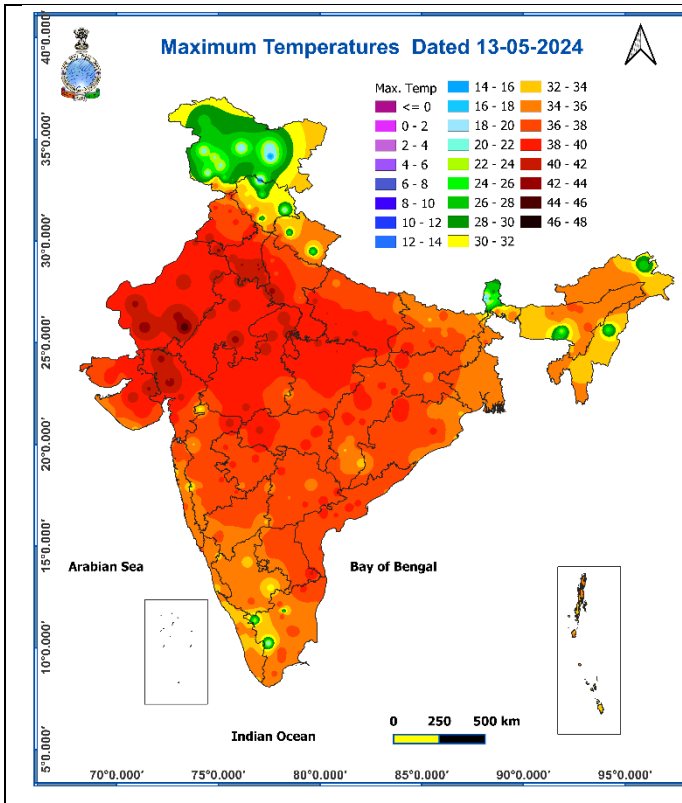


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

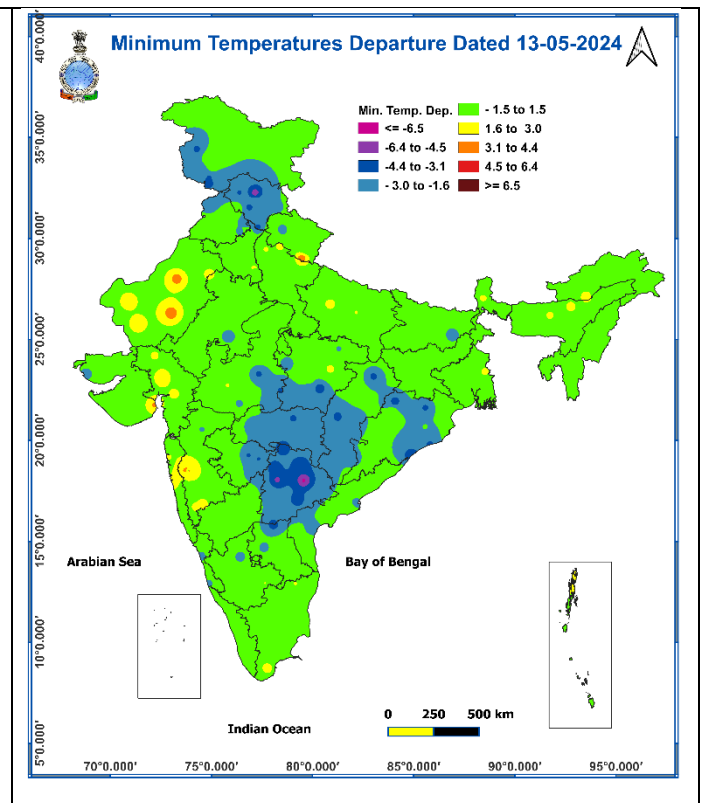
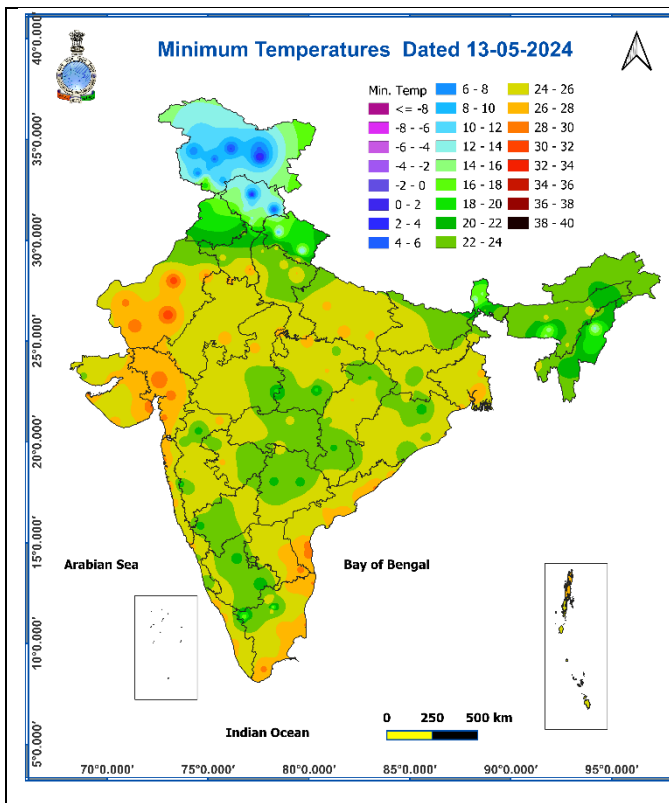
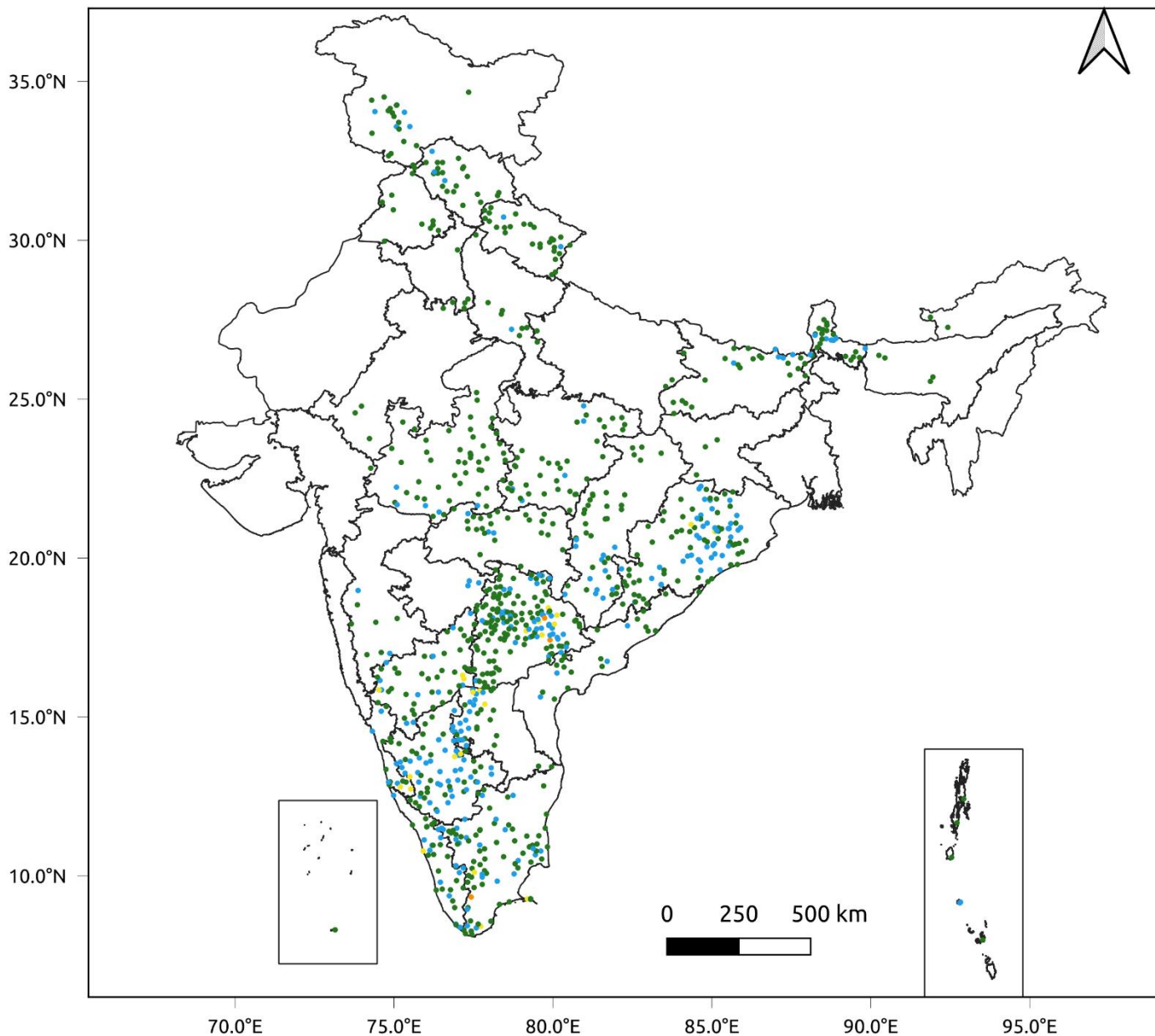


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

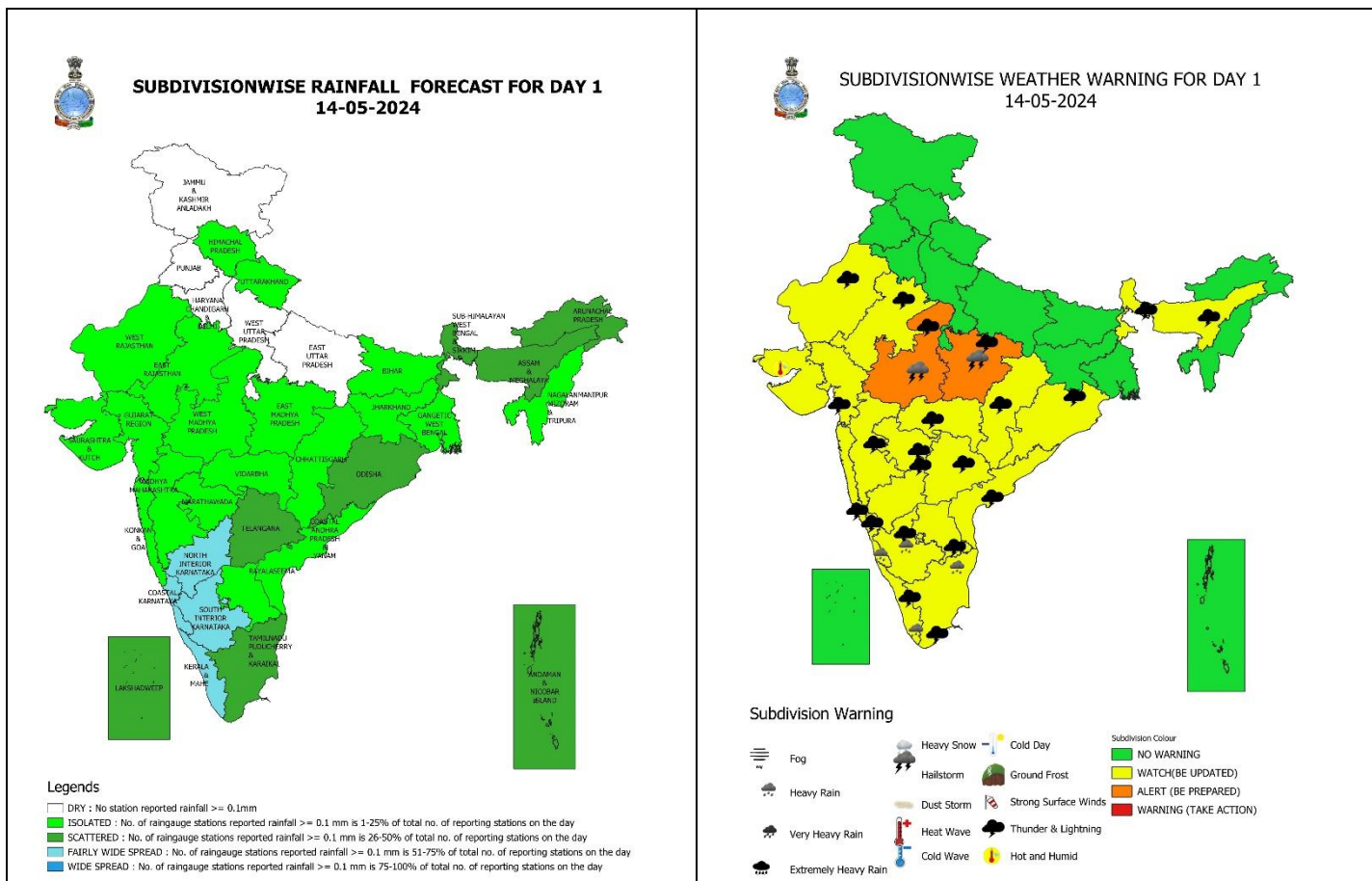


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 12-5-2024 to 0830 IST of 13-5-2024



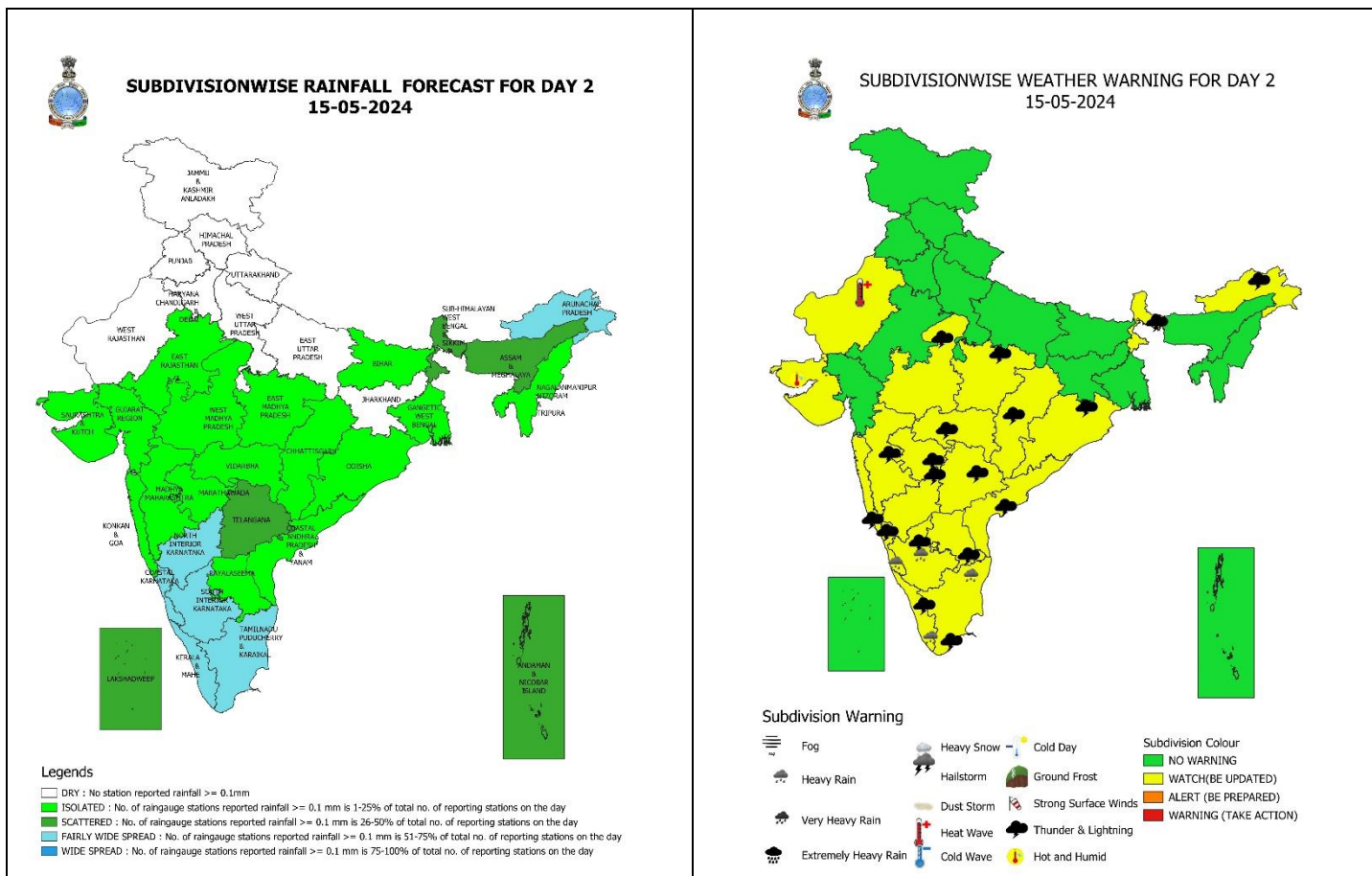
Legends

- 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)



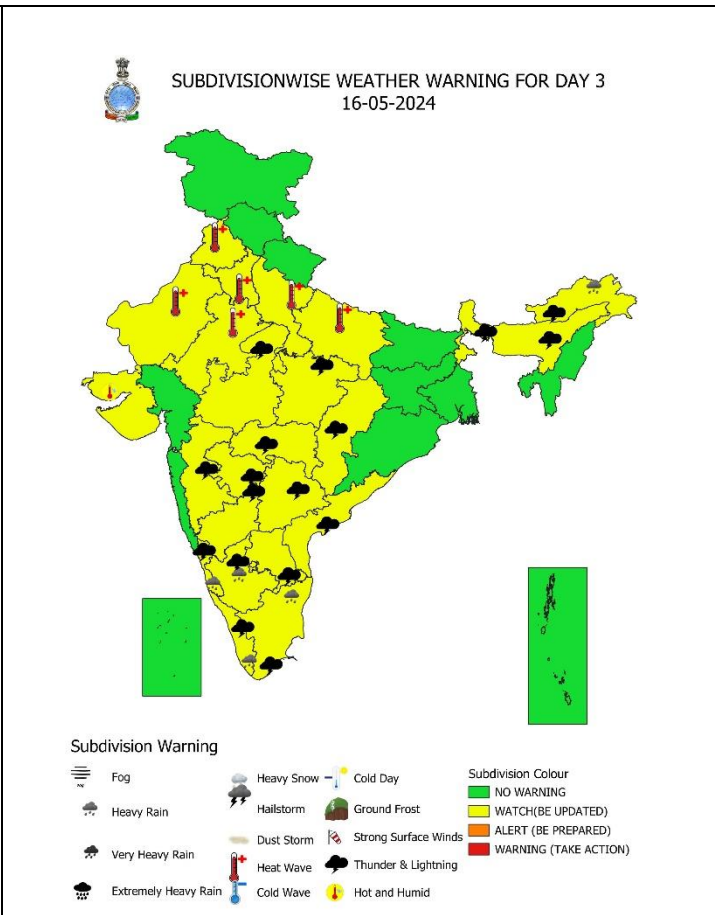
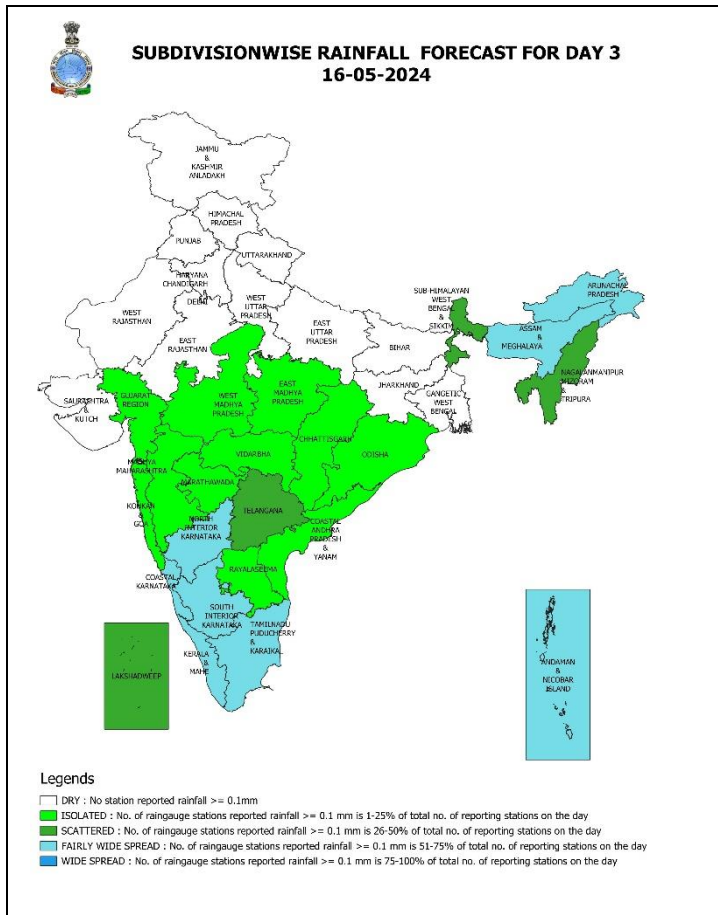
14 May (Day 1):

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



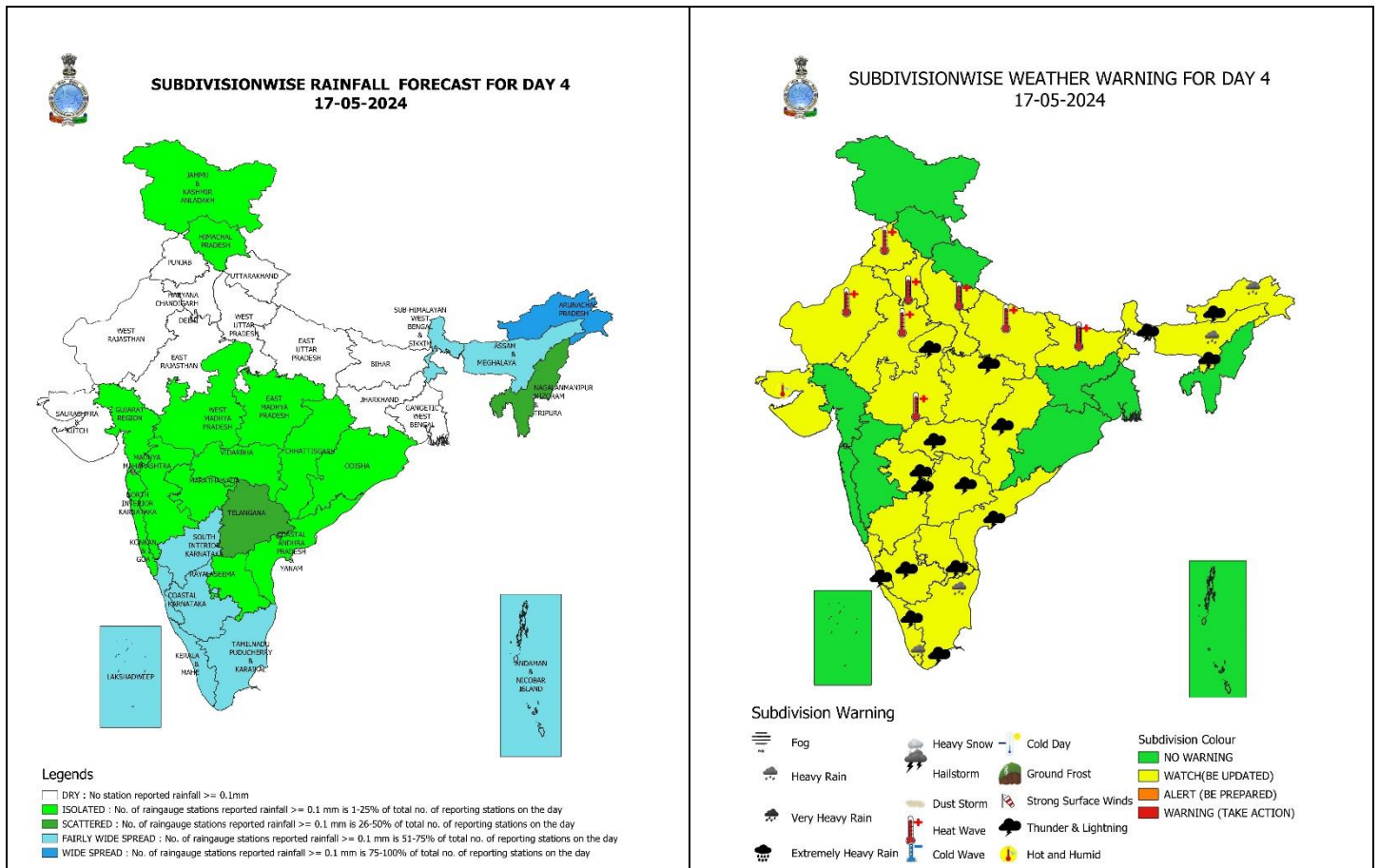
15 May (Day 2):

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



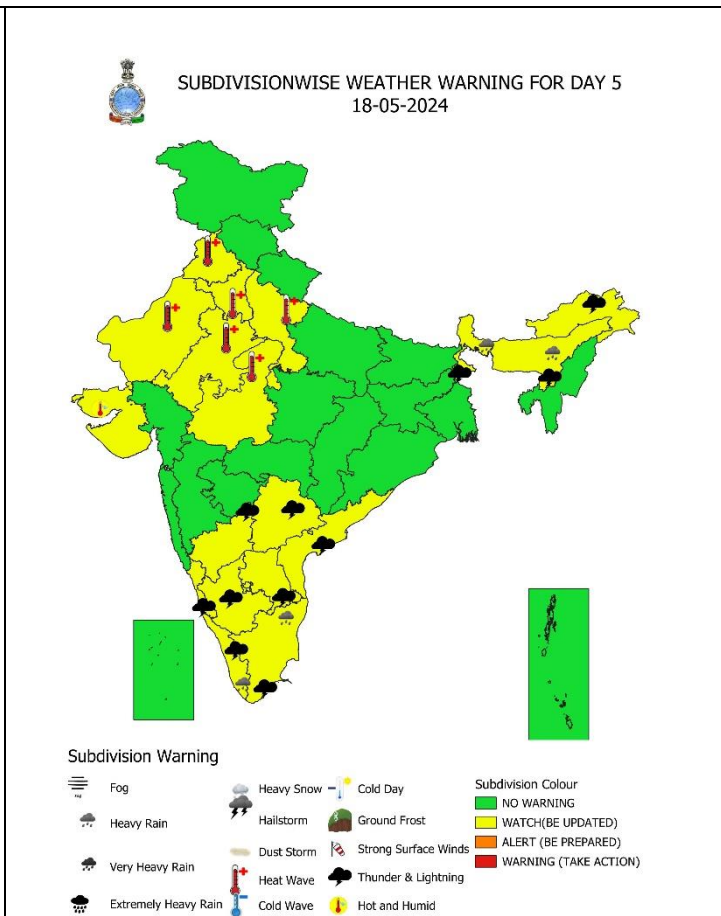
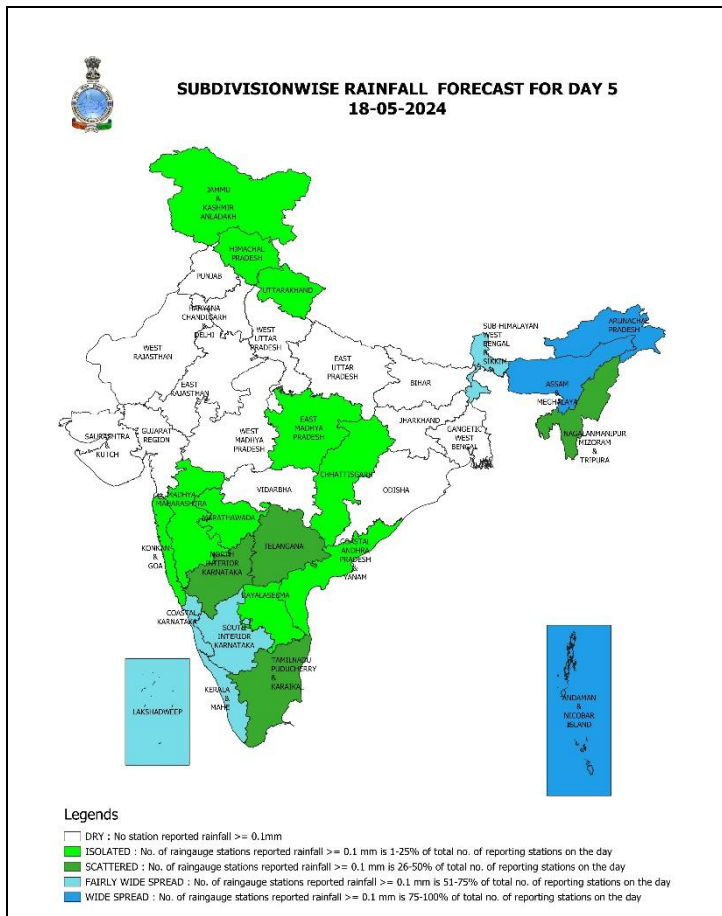
16 May (Day 3):

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



17 May (Day 4):

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

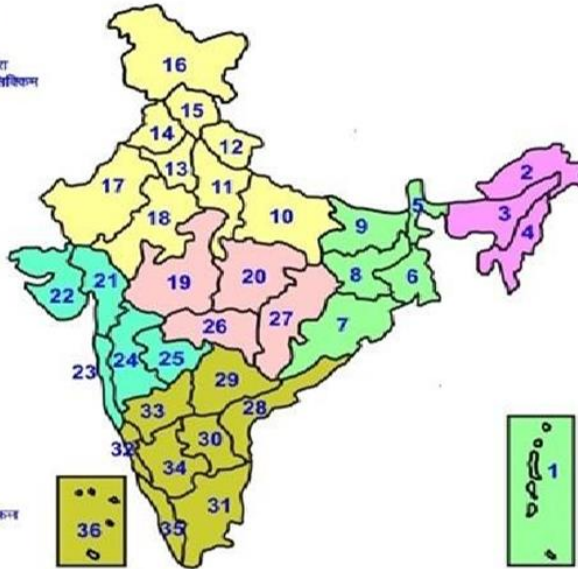


18 May (Day 5):

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

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 गंगोत्री 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 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



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

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