

Wednesday, July 24, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems

- ✓ The cyclonic circulation lies over Jharkhand & neighbourhood in lower & middle tropospheric levels.
- ✓ The **Monsoon trough** is active and lies near to its normal position. It is likely to continue to near its normal position during next 4-5 days.
- ✓ The **shear zone** lies in lower & middle tropospheric levels along 22°N tilting southwards with height.
- ✓ The **off-shore trough** at mean sea level along South Gujarat-north Karnataka coasts.
- ✓ A cyclonic circulation lies over southwest Rajasthan and another over northwest Uttar Pradesh in lower tropospheric levels.

Forecast & Warnings:

❖ West, Central, East and South Peninsular India

- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm & lightning very likely over the region during next 5 days.
- ✓ **Isolated extremely heavy rainfall very likely over Gujarat State, Konkan & Goa, Madhya Maharashtra on 24th July.**
- ✓ **Very heavy rainfall very likely at isolated places over Odisha during 24th-26th; Konkan & Goa on 25th & 26th; Madhya Maharashtra, Gujarat State during 25th-28th; Madhya Pradesh, Chhattisgarh on 24th and Kerala & Mahe on 25th July.**
- ✓ **Heavy rainfall** very likely at isolated/some places over Odisha, Kerala & Mahe, Karnataka during 24th-28th; Jharkhand, Vidarbha on 24th; Konkan & Goa on 27th & 28th; Madhya Pradesh and Chhattisgarh during 25th-28th July.

❖ Northwest India

- ✓ Scattered to fairly widespread light to moderate rainfall **accompanied with thunderstorm & lightning** very likely over Himachal Pradesh, Uttarakhand, East Rajasthan, Haryana-Chandigarh-Delhi, Punjab, West Uttar Pradesh and isolated to scattered rainfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan and East Uttar Pradesh during next 5 days.
- ✓ **Isolated very heavy rainfall also likely over Uttarakhand, Punjab, Haryana, East Rajasthan on 24th July.**
- ✓ Isolated **heavy rainfall** very likely over Himachal Pradesh, Uttarakhand, East Rajasthan during 24th-28th; West Uttar Pradesh, Jammu on 24th July.
- ✓ **Above normal temperatures with high humidity are likely to prevail over Punjab and Haryana-Chandigarh-Delhi during next 24 hours.**

❖ Northeast India

- ✓ Fairly widespread to widespread light to moderate rainfall with **accompanied with thunderstorm, lightning** very likely over Northeast India during next 5 days.
- ✓ Isolated **heavy rainfall** very likely over Arunachal Pradesh on 24th; Assam & Meghalaya and Nagaland, Manipur during 24th-25th July.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at a few places** over Konkan & Goa, Chhattisgarh, Odisha, Jharkhand, Gangetic West Bengal, Karnataka, Gujarat state, Madhya Maharashtra, Vidarbha, Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim; **at isolated places** Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Uttar Pradesh, Bihar, East Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to very heavy rainfall** at isolated places over Saurashtra & Kutch; **Heavy rainfall** at isolated places over Gujarat Region and Jharkhand.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Saurashtra & Kutch:** Dwarka-16, Kandla-5, Okha-4 and Keshod-2; **Gujarat Region:** Surat- 7 and Valsad-3; **Jharkhand:** Ranchi-7; **Madhya Maharashtra:** Mahabaleshwar-6; **Vidarbha:** Gondia-5, Akola, Chandrapur and Amroti-3 each; **Coastal Karnataka:** Mangalore- 5 and Shirala-2; **Chhattisgarh:** Raipur-5, Durg and Rajnandgaon-3 each; **Odisha:** Paradip Port-3 and Puri-2; **North Interior Karnataka:** Belgaun-3; **East Madhya Pradesh:** satna-3 and Jabalpur-2; **West Uttar Pradesh:** orai-3 and Meerut-2; **Konkan & Goa:** Santacruz, Matheran, Kolhapur and Ratnagiri-2 each; **Assam & Meghalaya:** cherrapunji-2 and North Lakhimpur-2; **East Rajasthan:** Alwar-2.
- ❖ **Minimum Temperature Departures (as on 23-07-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, East Rajasthan, East Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura and Madhya Maharashtra; **above normal (1.6°C to 3.0°C)** at most places over East Uttar Pradesh; at a few places over Bihar; at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttarakhand, West Uttar Pradesh, West Rajasthan, Gujarat Region, Chhattisgarh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya, West Madhya Pradesh, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Telangana and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 18.0°C** was reported at **Yeotmal (Vidarbha)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 23-07-2024):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over East Madhya Pradesh, Kerala & Mahe and East Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at isolated places over Punjab, West Uttar Pradesh, Gujarat state, Bihar, Odisha, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Gangetic West Bengal. These were **Markedly below normal (-5.1 or less)** at isolated places over Rayalaseema and Telangana; **appreciably below normal (-3.1°C to -5.0°C)** at **many places over** North Interior Karnataka; **at a few places over** Chhattisgarh, Marathwada and Madhya Maharashtra; at isolated places over Vidarbha; **below normal (-1.6°C to -3.0°C)** at isolated places over Coastal Andhra Pradesh & Yanam and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature of 40.6°C** was reported at **Sri Ganganagar (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **cyclonic circulation** over Jharkhand & neighbourhood extending upto 7.6 km above mean sea level tilting southwards with height persists.
- ❖ The **Monsoon trough** at mean sea level continues to pass through Bikaner, Sikar, Gwalior, Satna, Daltonganj, Contai and thence east-southeastwards to Northeast Bay of Bengal extending upto 0.9 km above mean sea level.
- ❖ The **cyclonic circulation** over northwest Uttar Pradesh at 1.5 km above mean sea level persists.
- ❖ The **cyclonic circulation** over Northeast Assam extending upto 1.5 km above mean sea level persists.
- ❖ The **cyclonic circulation** over southwest Rajasthan at 1.5 km above mean sea level persists.
- ❖ The **shear zone** roughly along 22°N between 3.1 & 7.6 km above mean sea level tilting southwards with height persists.
- ❖ The **off-shore trough** at mean sea level along South Gujarat- north Karnataka coast persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 31st July, 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 country.

Weather Outlook for subsequent 3 days (During 31st July-02nd August, 2024)

- ❖ Fairly widespread to widespread rainfall likely over most parts of the country except Tamil Nadu, Puducherry & Karaikal and Rayalaseema where isolated to scattered rainfall likely.

Table-1

7 Days Rainfall Forecast								
S. No.	Subdivision	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul	30-Jul
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	FWS	SCT	SCT	FWS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	WS	FWS	FWS	FWS	FWS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	FWS	FWS	FWS	WS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	FWS	FWS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	WS	WS	FWS	FWS	FWS	FWS	WS
7	ODISHA	WS	WS	WS	FWS	FWS	FWS	FWS
8	JHARKHAND	WS	WS	WS	FWS	FWS	FWS	FWS
9	BIHAR	SCT	SCT	SCT	SCT	SCT	SCT	SCT
10	EAST UTTAR PRADESH	ISOL	SCT	SCT	ISOL	ISOL	ISOL	ISOL
11	WEST UTTAR PRADESH	FWS	SCT	SCT	SCT	SCT	SCT	SCT
12	UTTARAKHAND	FWS	FWS	FWS	FWS	WS	WS	WS
13	HARYANA CHANDIGARH & DELHI	FWS	SCT	FWS	SCT	SCT	SCT	SCT
14	PUNJAB	FWS	SCT	SCT	SCT	SCT	SCT	SCT
15	HIMACHAL PRADESH	FWS	FWS	WS	WS	WS	WS	WS
16	JAMMU & KASHMIR AND LADAKH	SCT	SCT	SCT	SCT	SCT	SCT	SCT
17	WEST RAJASTHAN	SCT	SCT	SCT	SCT	SCT	SCT	SCT
18	EAST RAJASTHAN	FWS	FWS	FWS	FWS	FWS	FWS	FWS
19	WEST MADHYA PRADESH	WS	WS	WS	WS	WS	WS	WS
20	EAST MADHYA PRADESH	WS	WS	WS	WS	WS	WS	WS
21	GUJARAT REGION	WS	WS	WS	WS	WS	WS	WS
22	SAURASHTRA & KUTCH	WS	WS	WS	WS	WS	WS	WS
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	WS	FWS	FWS	FWS	FWS	FWS	FWS
25	MARATHAWADA	FWS	FWS	SCT	SCT	SCT	SCT	FWS
26	VIDARBHA	WS	FWS	FWS	FWS	FWS	FWS	FWS
27	CHHATTISGARH	WS	FWS	FWS	FWS	FWS	FWS	FWS
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	SCT	SCT	SCT	SCT	SCT
29	TELANGANA	SCT	SCT	SCT	SCT	SCT	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	SCT	SCT	SCT	SCT	SCT
35	KERALA & MAHE	WS	WS	WS	WS	WS	WS	WS
36	LAKSHADWEEP	FWS	FWS	FWS	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
(Service to the Nation since 1875)

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

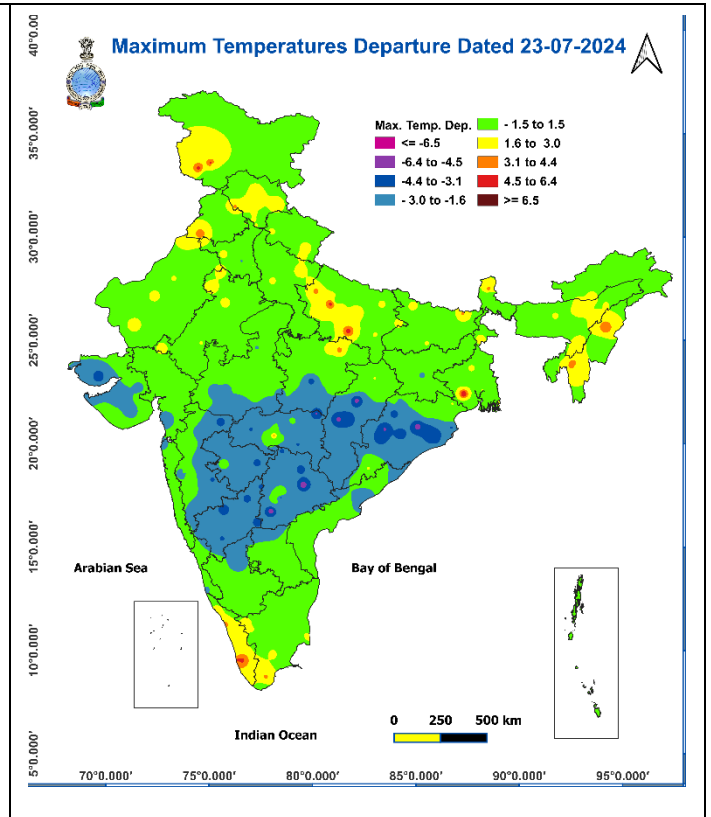
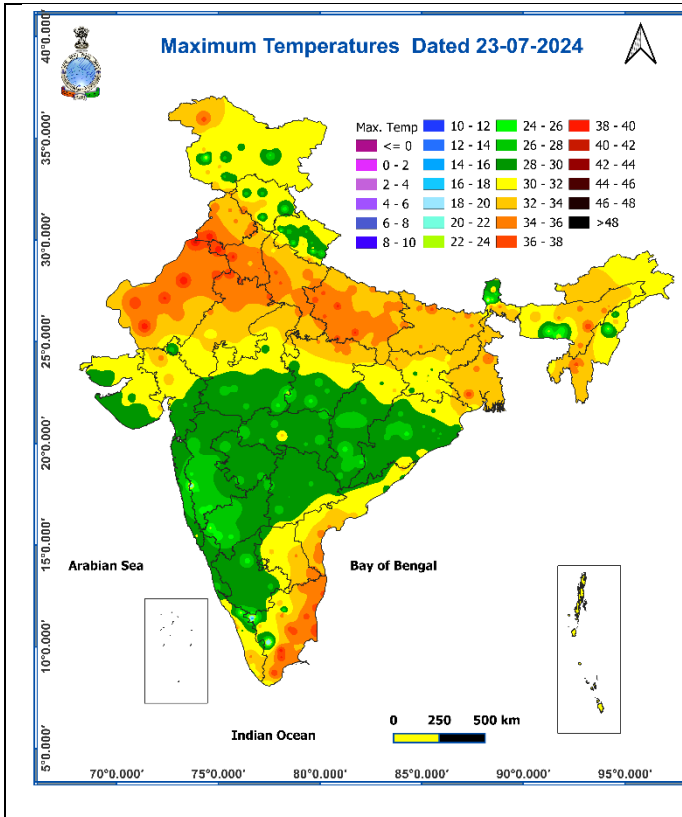


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

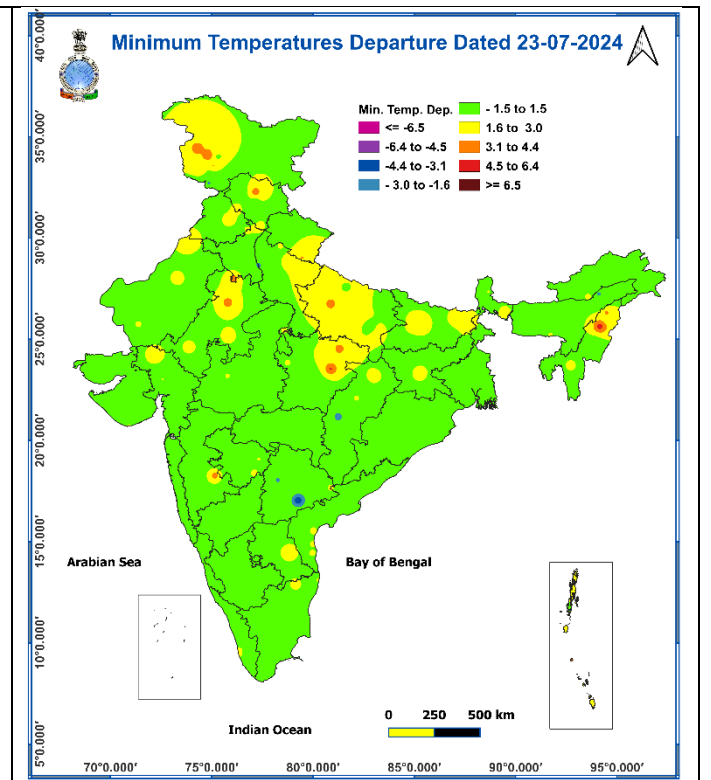
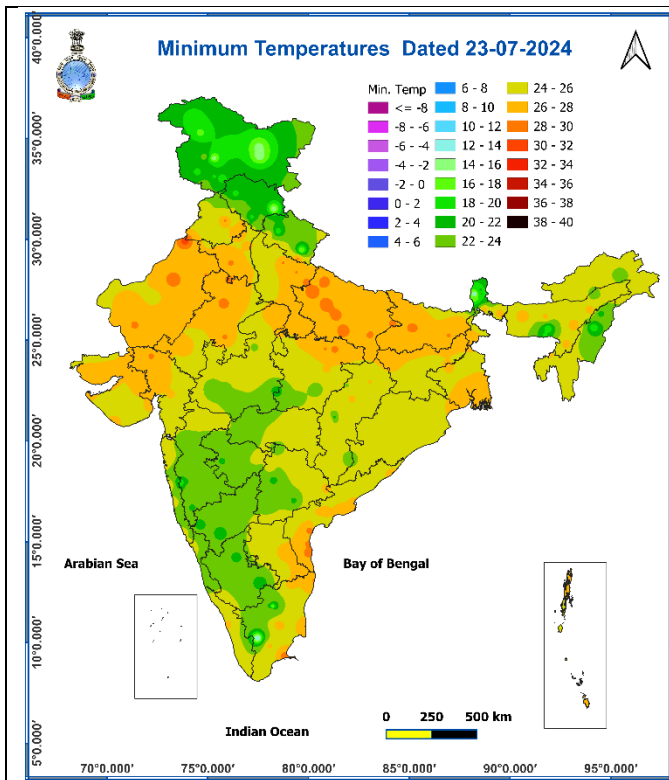
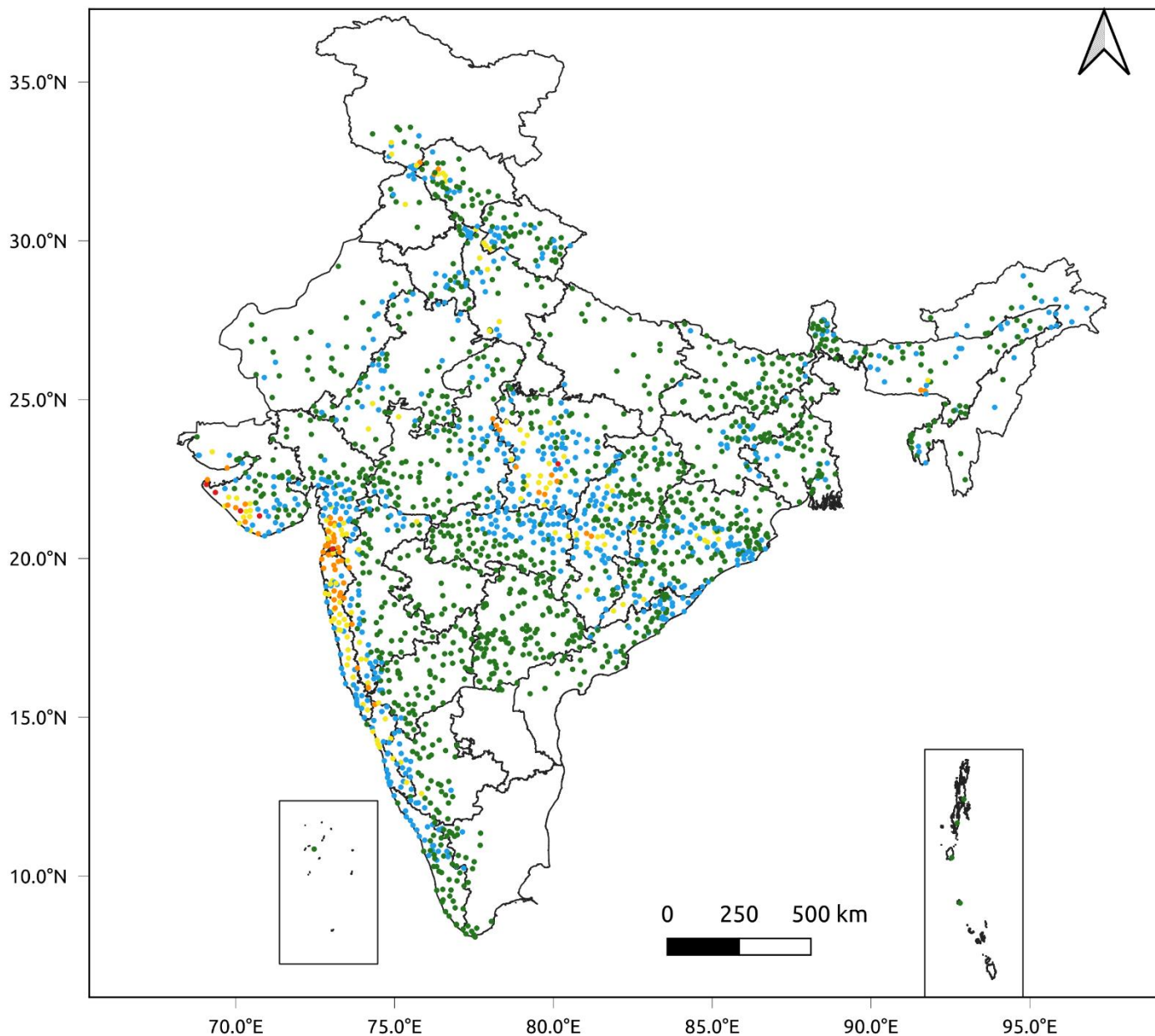


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

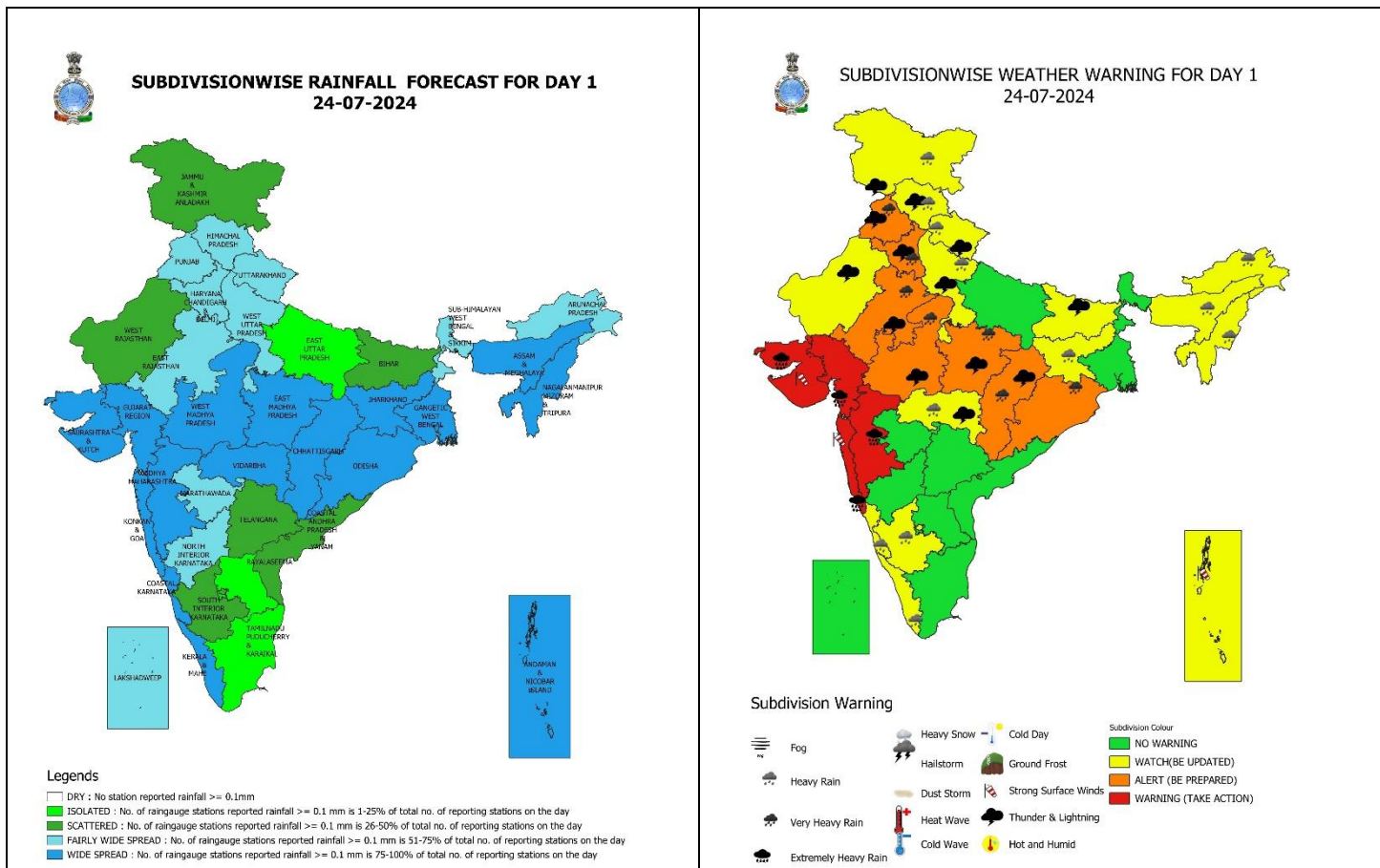


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 22-7-2024 to 0830 IST of 23-7-2024



Legends

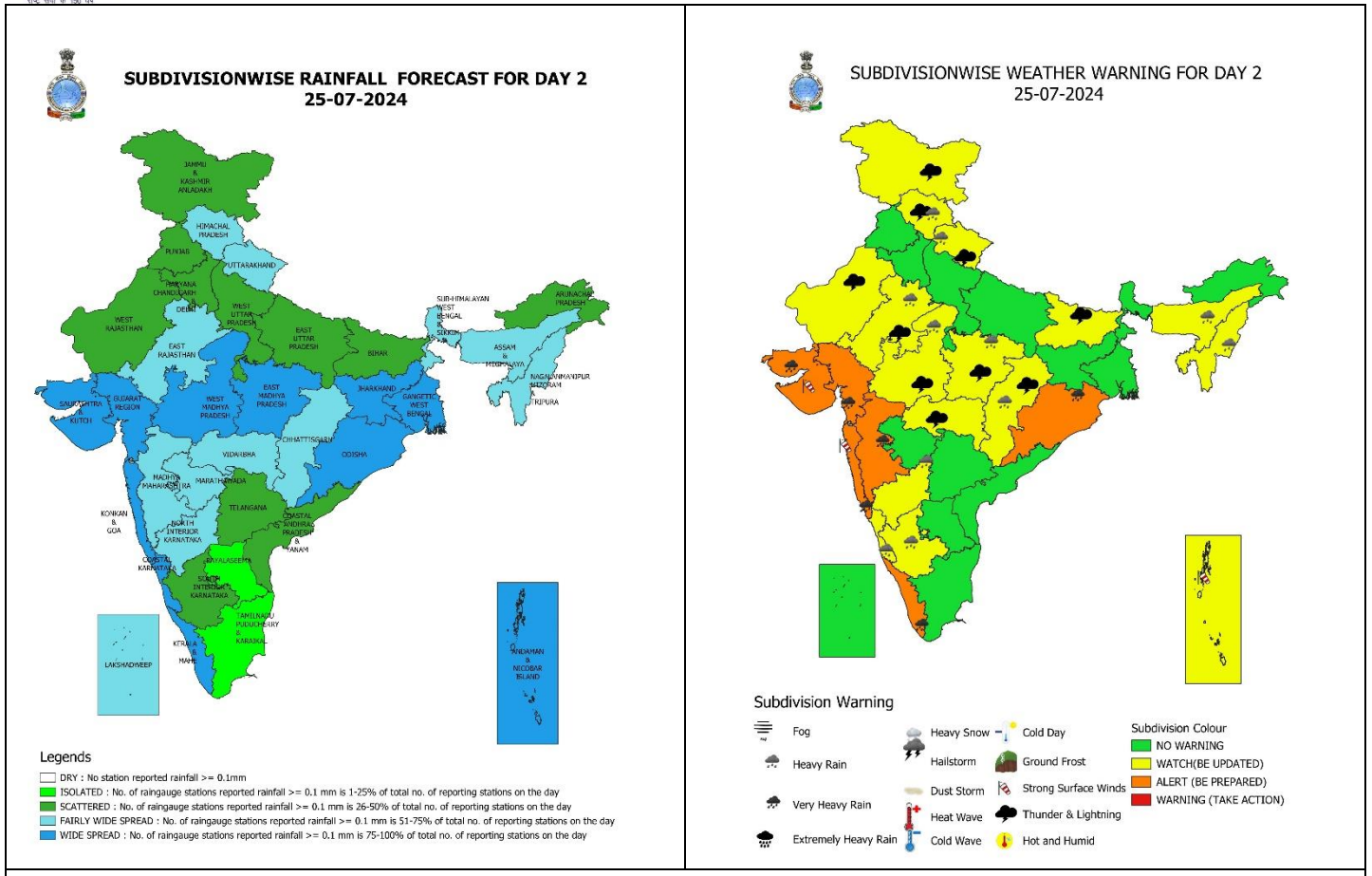
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)



24 July (Day 1):

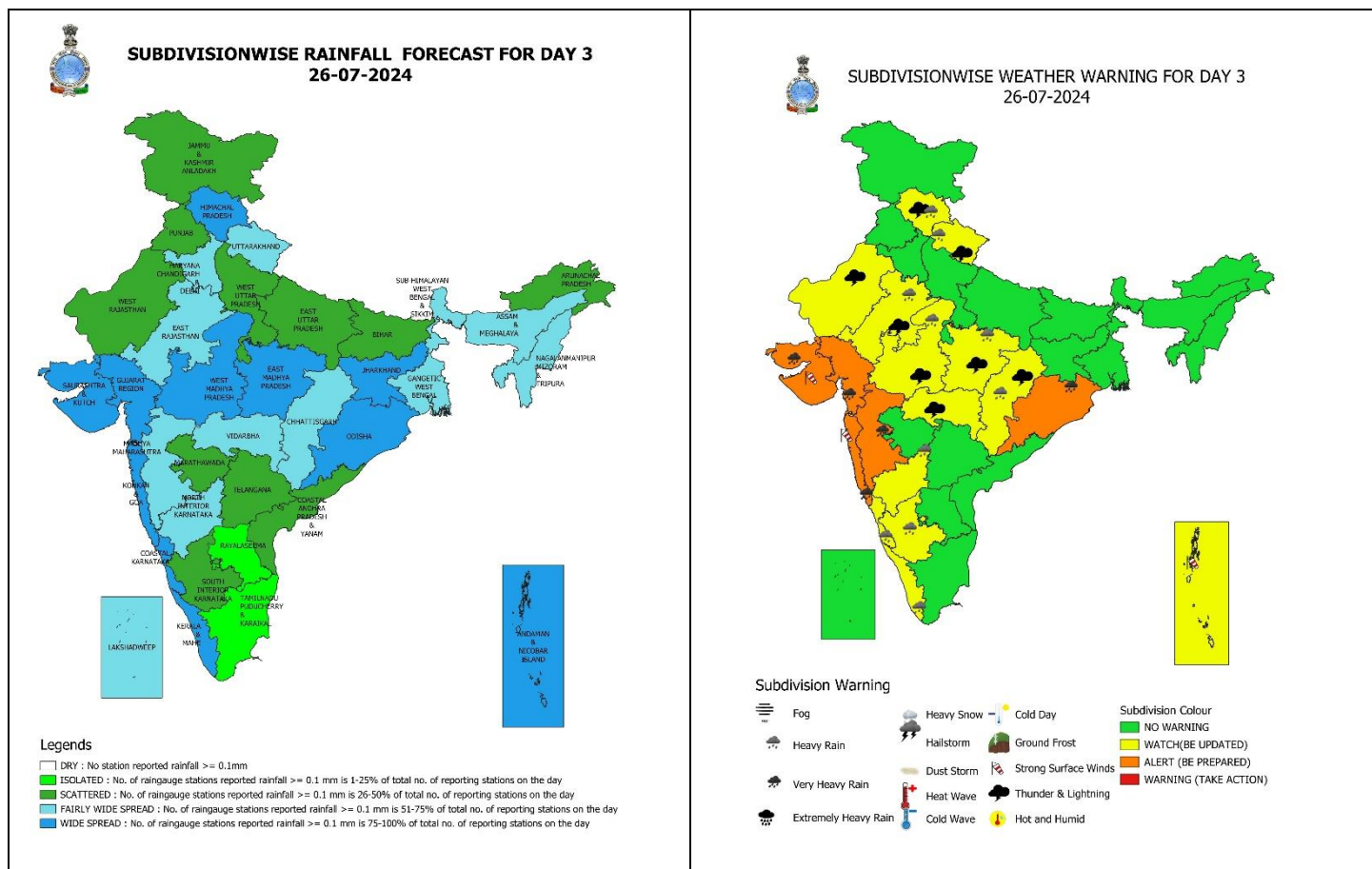
- ❖ **Heavy to very heavy rainfall with extremely heavy falls (≥ 20 cm)** very likely at isolated places over Konkan & Goa, Madhya Maharashtra and Gujarat state; **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, East Rajasthan, Madhya Pradesh, Chhattisgarh, and Odisha; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Vidarbha, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Karnataka and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over West Rajasthan; **Thunderstorm accompanied with lightning** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Bihar.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over northeast and adjoining northwest Arabian sea, most parts of east central & many parts of west central Arabian sea, northern parts of southeast and southwest Arabian sea, Karnataka coast, gulf of Mannar, off Sri Lanka coasts, over many parts of south and most parts of central Bay of Bengal & southern parts of north Bay of Bengal, North Andaman Sea off north Andhra Pradesh, Odisha coasts. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat adjoining northeast Arabian sea, Maharashtra, Konkan, Goa coasts, along most parts of central Bay of Bengal. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southeast and southwest Arabian sea, southern parts of north Arabian Sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.

* 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)



25 July (Day 2):

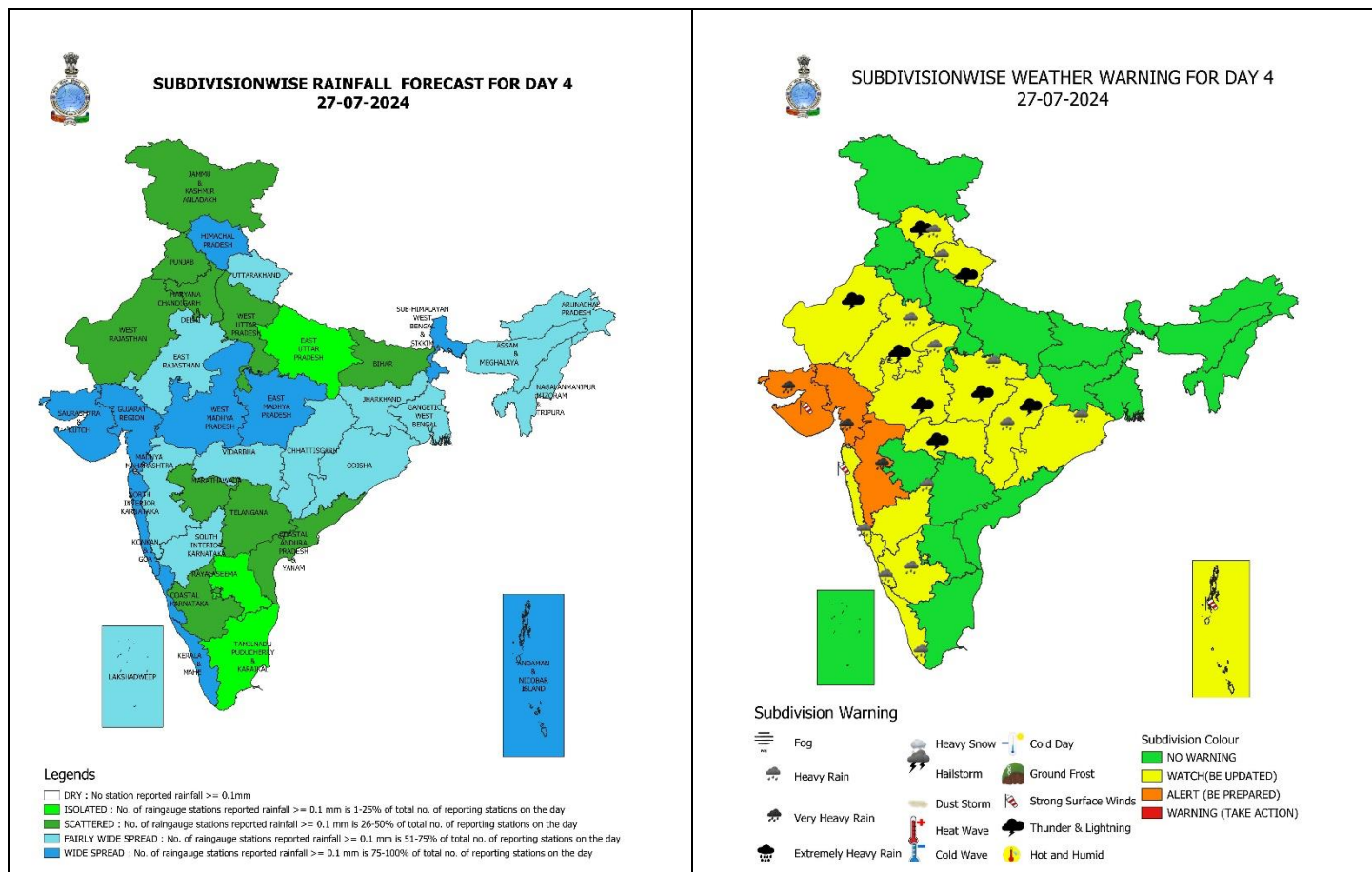
- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** very likely at isolated places over Odisha, Konkan & Goa, Madhya Maharashtra, Gujarat State and Kerala & Mahe; **Heavy rainfall (≥ 7 cm)** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Bihar.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over northeast and adjoining northwest Arabian sea, most parts of east central & many parts of west central Arabian sea, northern parts of southeast and southwest Arabian sea, Karnataka coast, gulf of Mannar, off Sri Lanka coasts, over many parts of south and most parts of central Bay of Bengal & southern parts of north Bay of Bengal along and off north Andhra Pradesh off Odisha coasts, North Andaman Sea, off north Andhra Pradesh, Odisha coasts. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat adjoining northeast Arabian sea, Maharashtra, Konkan, Goa coasts, most parts of central & southern parts of north Bay of Bengal. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southeast and southwest Arabian sea, southern parts of north Arabian Sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.



26 July (Day 3):

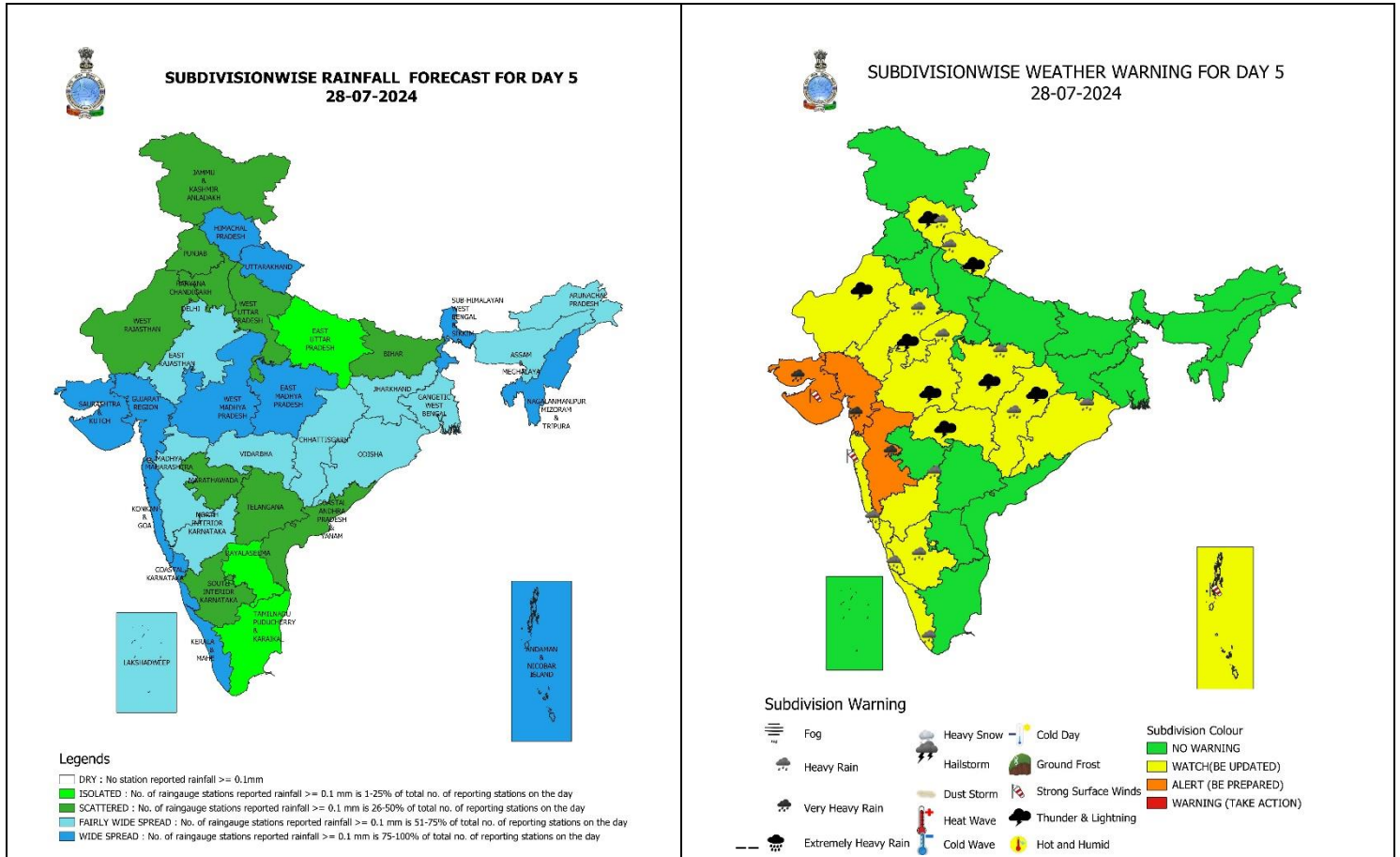
- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** very likely at isolated places over Odisha, Konkan & Goa, Madhya Maharashtra, and Gujarat State; **Heavy rainfall (≥ 7 cm)** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Chhattisgarh, Kerala & Mahe and Karnataka.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha and Chhattisgarh.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northeast and adjoining northwest Arabian sea, most parts of east central & many parts of west central Arabian sea, northern parts of southeast and southwest Arabian sea, Karnataka coast, gulf of Mannar, off Sri Lanka coasts, over many parts of south and most parts of central Bay of Bengal & southern parts of north Bay of Bengal along and off north Andhra Pradesh off Odisha coasts, North Andaman Sea, off north Andhra Pradesh, Odisha coasts. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat adjoining northeast Arabian sea, Maharashtra, Konkan, Goa coasts, most parts of central & southern parts of north Bay of Bengal. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southeast and southwest Arabian sea, southern parts of north Arabian Sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.

* 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)



27 July (Day 4):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Madhya Maharashtra and Gujarat State; **Heavy rainfall (≥ 7 cm)** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Chhattisgarh, Odisha, Konkan & Goa, Kerala & Mahe and Karnataka.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha and Chhattisgarh.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northeast and adjoining northwest Arabian sea, most parts of east central & many parts of west central Arabian sea, northern parts of southeast and southwest Arabian sea, Karnataka coast, gulf of Mannar, off Sri Lanka coasts, over many parts of south and most parts of central Bay of Bengal & southern parts of north Bay of Bengal along and off north Andhra Pradesh off Odisha coasts, North Andaman Sea, off north Andhra Pradesh, Odisha coasts. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat adjoining northeast Arabian sea, Maharashtra, Konkan, Goa coasts, most parts of central & southern parts of north Bay of Bengal. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southeast and southwest Arabian sea, southern parts of north Arabian Sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.

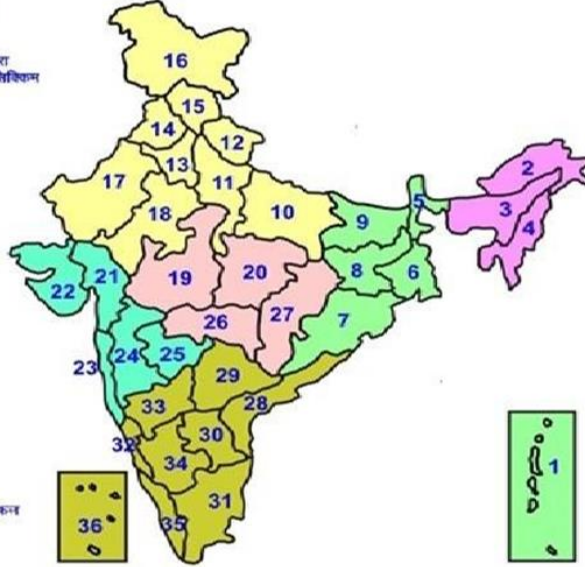


28 July (Day 5):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Madhya Maharashtra and Gujarat State; **Heavy rainfall (≥ 7 cm)** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Chhattisgarh, Odisha, Konkan & Goa, Kerala & Mahe and Karnataka.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha and Chhattisgarh.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northeast and adjoining northwest Arabian sea, most parts of east central & many parts of west central Arabian sea, northern parts of southeast and southwest Arabian sea, Karnataka coast, gulf of Mannar, off Sri Lanka coasts, over many parts of south and most parts of central Bay of Bengal & southern parts of north Bay of Bengal along and off north Andhra Pradesh off Odisha coasts, North Andaman Sea, off north Andhra Pradesh, Odisha coasts. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat adjoining northeast Arabian sea, Maharashtra, Konkan, Goa coasts, most parts of central & southern parts of north Bay of Bengal. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southeast and southwest Arabian sea, southern parts of north Arabian Sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.

LEGENDS

- 1 अंडमान 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 कच्छ
- 24 मध्य प्रदेश
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 उत्पी आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 रायलसेमा
- 31 तमिलनाडु, पुदुचेरी एवं केरल
- 32 उत्तर 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. Tamilnadu, 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)