

Thursday, August 1, 2024  
Time of Issue: 0800 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### Weather Systems

- ✓ The Western end of **Monsoon trough** is active and north of its normal position and eastern end runs near normal at mean sea level.
- ✓ A **cyclonic circulation** over Gangetic West Bengal & neighbourhood in lower tropospheric levels.
- ✓ The **off-shore trough** at mean sea level runs along South Gujarat to Kerala coast.
- ✓ A **shear zone** runs roughly along 20°N in lower & middle tropospheric levels tilting southwards with height.
- ✓ A **cyclonic circulation** lies over north Arabian Sea in lower tropospheric levels tilting southwards with height.

### Forecast & Warnings:

#### ❖ West & Central 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 Madhya Maharashtra during 01<sup>st</sup>-03<sup>rd</sup> August; East Madhya Pradesh on 01<sup>st</sup> & 02<sup>nd</sup>; Konkan & Goa on 02<sup>nd</sup> & 03<sup>rd</sup> and Gujarat Region on 03<sup>rd</sup> August.**
- ✓ **Very heavy rainfall very likely at isolated places over Konkan & Goa during 01<sup>st</sup> - 05<sup>th</sup> August; Madhya Maharashtra on 04<sup>th</sup> & 05<sup>th</sup> August; Vidarbha, Chhattisgarh on 01<sup>st</sup> & 02<sup>nd</sup> August; West Madhya Pradesh during 01<sup>st</sup> - 03<sup>rd</sup> August; East Madhya Pradesh on 03<sup>rd</sup> August; Saurashtra & Kutch on 03<sup>rd</sup> August and Gujarat Region on 04<sup>th</sup> & 05<sup>th</sup> August.**
- ✓ **Heavy rainfall** very likely at isolated places over Gujarat Region on 02<sup>nd</sup> August; Chhattisgarh & Marathwada on 03<sup>rd</sup> August; Saurashtra & Kutch, West Madhya Pradesh, Vidarbha on 04<sup>th</sup> & 05<sup>th</sup> August.

#### ❖ Northwest India

- ✓ Fairly widespread to widespread light to moderate rainfall **accompanied with thunderstorm & lightning** very likely over Himachal Pradesh, Uttarakhand; scattered to fairly widespread rainfall over Jammu-Kashmir, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and Rajasthan during next 4-5 days.
- ✓ **Isolated very heavy rainfall also likely over Uttarakhand during 01<sup>st</sup>-03<sup>rd</sup> August; Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh on 01<sup>st</sup> August.**
- ✓ Isolated **heavy rainfall** very likely over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, East Rajasthan during 01<sup>st</sup>-05<sup>th</sup> August; Uttar Pradesh on 02<sup>nd</sup> & 03<sup>rd</sup> August; Punjab, Haryana-Chandigarh on 02<sup>nd</sup> August, northwest Rajasthan & Delhi on 01<sup>st</sup> August.

#### ❖ South Peninsular India:

- ✓ Fairly widespread to widespread light to moderate rainfall over Coastal Karnataka, Lakshadweep and Kerala & Mahe; Scattered to fairly widespread light to moderate rainfall over Interior Karnataka and isolated to scattered rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema during next 5 days.
- ✓ **Very heavy rainfall very likely at isolated places over Coastal & South Interior Karnataka on 01<sup>st</sup> & 02<sup>nd</sup> August.**
- ✓ **Heavy rainfall** very likely at isolated places over Coastal & South Interior Karnataka during 01<sup>st</sup>-05<sup>th</sup> August; North Interior Karnataka, Kerala & Mahe on 01<sup>st</sup> & 02<sup>nd</sup> August; Tamil Nadu on 01<sup>st</sup> August.

#### ❖ East & Northeast India

- ✓ Fairly widespread to widespread light to moderate rainfall **accompanied with thunderstorm, lightning** very likely over East & Northeast India during next 5 days.
- ✓ **Very heavy rainfall very likely at isolated places over Assam & Meghalaya and Manipur, Mizoram on 01<sup>st</sup> August.**
- ✓ Isolated **heavy rainfall** very likely over Bihar on 03<sup>rd</sup> & 04<sup>th</sup> August; Jharkhand, Odisha, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 01<sup>st</sup> & 02<sup>nd</sup> August, Arunachal Pradesh during 02<sup>nd</sup>-05<sup>th</sup> August; Sub-Himalayan West Bengal & Sikkim during 01<sup>st</sup>-03<sup>rd</sup> August.

### Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most** places over Kerala & Mahe and Odisha; **at many places** over Lakshadweep, Konkan & Goa, Saurashtra & Kutch, East Madhya Pradesh, Gangetic West Bengal and East Uttar Pradesh; **at a few places** over Coastal Karnataka, Madhya Maharashtra, West Madhya Pradesh and Chhattisgarh; **at isolated places** over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Marathwada, Vidarbha, Telangana, Coastal Andhra Pradesh & Yanam, Gujarat Region, East Rajasthan, Jharkhand, Bihar, West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, Uttarakhand, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Odisha; **Heavy rainfall** at isolated places over Jharkhand and Kerala & Mahe.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Odisha:** Barapada-12, Jharsuguda-2; **Jharkhand:** Daltonganj-9, Ranchi-5; **Kerala & Mahe:** Kannur-7, Kozhikode-6, Palakkad and Alapuzha -3 each, Thrissur and Kochi-2 each; **East Uttar Pradesh:** Lucknow-6, Fursatgunj-5, Bahraich-3; **Bihar:** Dehri-6, Chapra-2; **Coastal Karnataka:** Mangalore-5; **Tamil Nadu, Puducherry & Karaikal:** Valparai-4; **Uttarakhand:** Dehradun-4; **Saurashtra & Kutch:** Mahuva-3; **Haryana:** Nahan-2; **East Rajasthan:** Jaipur-2; **West Uttar Pradesh:** Agra-2; **West Madhya Pradesh:** Bhopal-2; **East Madhya Pradesh:** Seoni-2; **Gangetic West Bengal:** Purulia-2; **Konkan & Goa:** Matheran-2; **Madhya Maharashtra:** Mahabaleshwar-2; **Mizoram:** Aizwal-2; **Lakshadweep:** Agati-3, Amini Divi-2.
- ❖ **Minimum Temperature Departures (as on 31-07-2024):** Minimum temperatures were **markedly above normal (5.1°C & above)** at isolated places over Punjab, Nagaland, Manipur, Mizoram & Tripura and East Madhya Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Himachal Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Haryana-Chandigarh-Delhi, Rajasthan, East Uttar Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura and Madhya Maharashtra; **above normal (1.6°C to 3.0°C)** at many places over West Uttar Pradesh, West Bengal & Sikkim, Jharkhand and Odisha; at isolated places over West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Vidarbha, Marathwada, North Interior Karnataka, Rayalaseema and Tamil Nadu, Puducherry & Karaikal 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 31-07-2024):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya, Arunachal Pradesh and Coastal Andhra Pradesh & Yanam; at isolated places over Haryana-Chandigarh-Delhi, Punjab, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Gujarat Region; **above normal (1.6°C to 3.0°C)** at many places over Bihar, Gangetic West Bengal, Rajasthan; at a few places over Saurashtra & Kutch and West Madhya Pradesh; at isolated places over Himachal Pradesh, Konkan & Goa, Madhya Maharashtra and Telangana. These were **below normal (-1.6°C to -3.0°C)** at a few places over Odisha, East Madhya Pradesh, East Uttar Pradesh, Chhattisgarh and Kerala & Mahe and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature** of 42.2°C was reported at **Sri Ganganagar (West Rajasthan)** over the country.

### Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Monsoon trough** at mean sea level now passes through Ferozpur, Chandigarh, Dehradun, Bareilly, Gorakhpur, Bhagalpur, Bankura and thence east-southeastwards to northeast Bay of Bengal.
- ❖ The **cyclonic circulation** over Gangetic West Bengal & neighbourhood extending upto 5.8 km above mean sea level persists.
- ❖ The **cyclonic circulation** over south Assam extending upto 0.9 km above mean sea level persists.
- ❖ The **cyclonic circulation** over north Arabian sea between 3.1 & 4.5 km above mean sea level tilting southwards with height persists.
- ❖ The shear zone roughly along 20°N between 4.5 & 5.8 km above mean sea level tilting southwards with height persists.
- ❖ The **off-shore trough** at mean sea level along South Gujarat to Kerala coast persists.

### Weather Forecast for next 7 days (Upto 0830 hours IST of 08<sup>th</sup> August, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Thunderstorm/lightning likely at isolated places over Central & East India region for next 4-5 days.
- ❖ No significant change in maximum temperatures very likely over most parts of the country.

### Weather Outlook for subsequent 3 days (During 08<sup>th</sup> August - 10<sup>th</sup> 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	01-Aug	02-Aug	03-Aug	04-Aug	05-Aug	06-Aug	07-Aug
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	WS	WS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	FWS	FWS	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	FWS	FWS	FWS	FWS	FWS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	WS	FWS	FWS	FWS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	WS	WS	FWS	FWS	FWS	WS	WS
7	ODISHA	WS	WS	FWS	SCT	SCT	FWS	FWS
8	JHARKHAND	WS	WS	FWS	FWS	FWS	WS	WS
9	BIHAR	SCT	SCT	FWS	FWS	FWS	FWS	FWS
10	EAST UTTAR PRADESH	WS	WS	WS	SCT	SCT	SCT	SCT
11	WEST UTTAR PRADESH	WS	WS	WS	WS	FWS	FWS	FWS
12	UTTARAKHAND	WS	WS	WS	WS	FWS	FWS	FWS
13	HARYANA CHANDIGARH & DELHI	WS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	WS	SCT	SCT	SCT	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	WS	WS	WS	WS	FWS	FWS	FWS
16	JAMMU & KASHMIR AND LADAKH	WS	FWS	FWS	FWS	FWS	SCT	SCT
17	WEST RAJASTHAN	SCT	SCT	SCT	SCT	FWS	SCT	SCT
18	EAST RAJASTHAN	FWS	SCT	FWS	FWS	FWS	FWS	FWS
19	WEST MADHYA PRADESH	WS	WS	WS	WS	FWS	FWS	FWS
20	EAST MADHYA PRADESH	WS	WS	WS	FWS	FWS	FWS	FWS
21	GUJARAT REGION	FWS	FWS	WS	WS	FWS	FWS	FWS
22	SAURASHTRA & KUTCH	SCT	FWS	WS	WS	FWS	FWS	FWS
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	WS	WS	WS	FWS	SCT	SCT
25	MARATHAWADA	FWS	FWS	WS	FWS	SCT	ISOL	ISOL
26	VIDARBHA	WS	WS	WS	WS	FWS	FWS	FWS
27	CHHATTISGARH	WS	WS	WS	FWS	FWS	FWS	FWS
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	SCT	SCT	FWS	FWS	FWS
29	TELANGANA	FWS	SCT	SCT	SCT	SCT	SCT	SCT
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	ISOL	ISOL	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	SCT	FWS	SCT	FWS	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	SCT	SCT	SCT	SCT	SCT
35	KERALA & MAHE	WS	WS	FWS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	WS	FWS	FWS	FWS	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

\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".  
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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

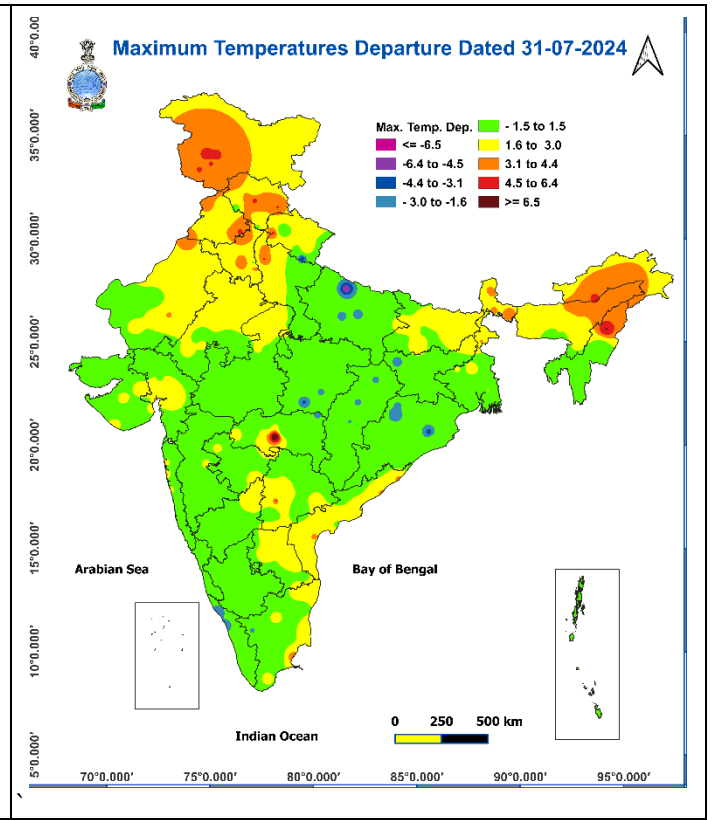
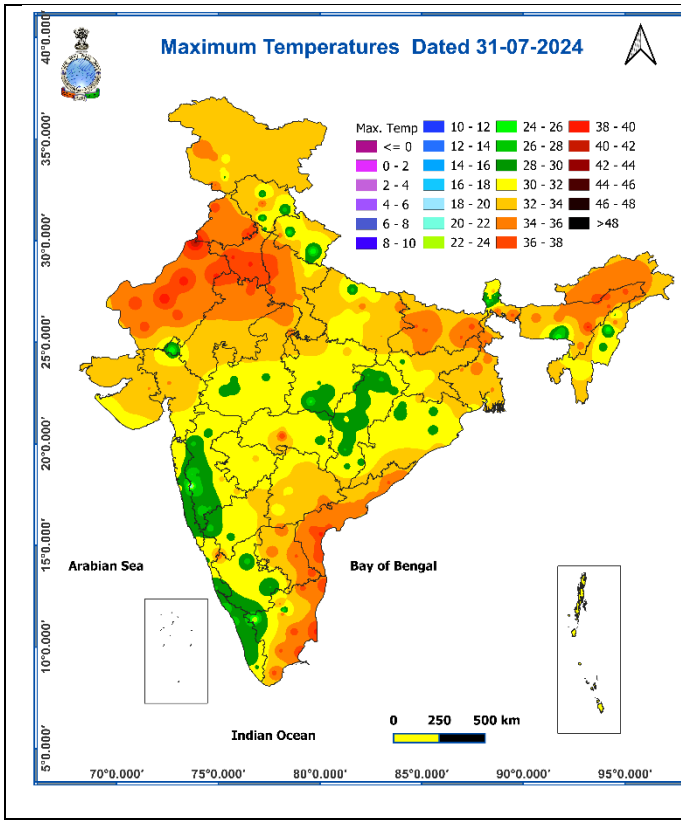


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

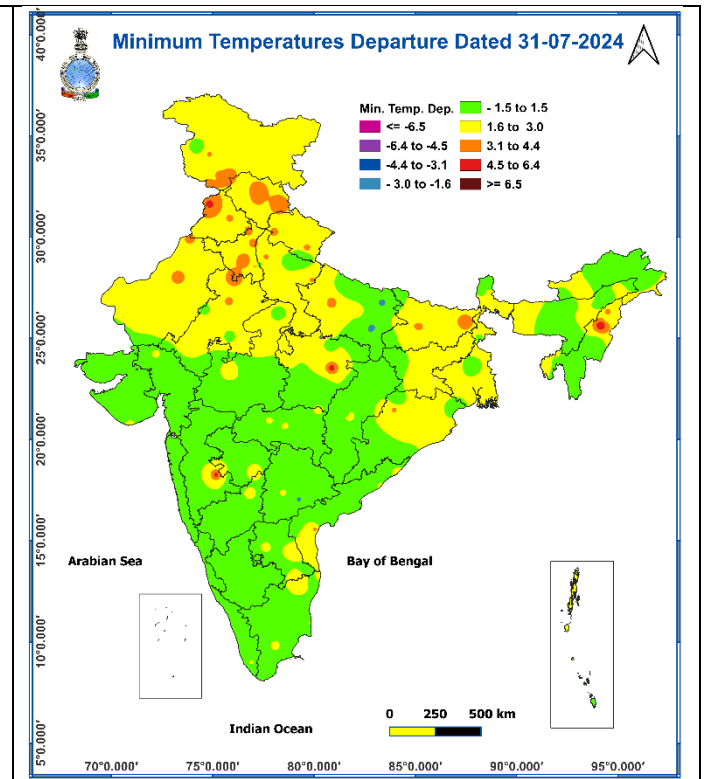
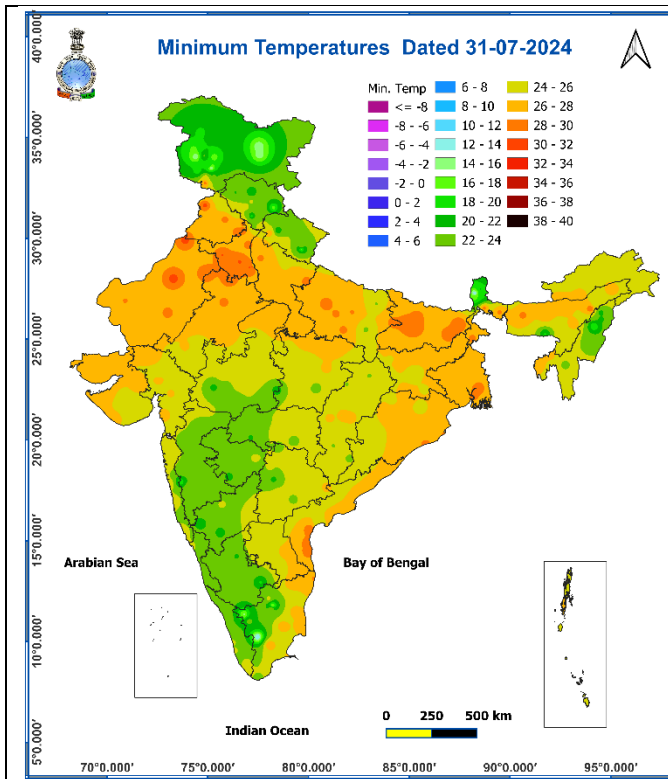
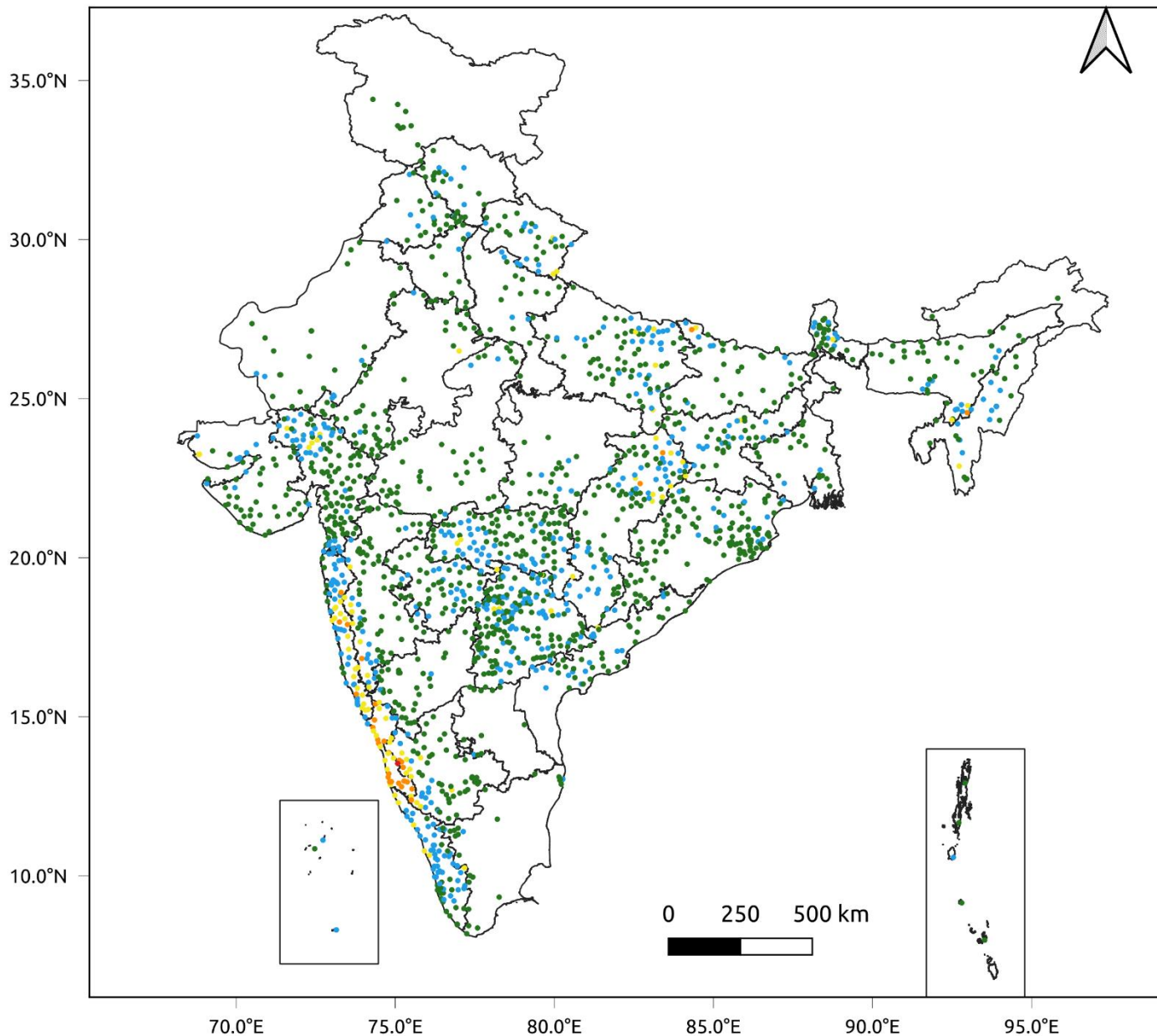


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

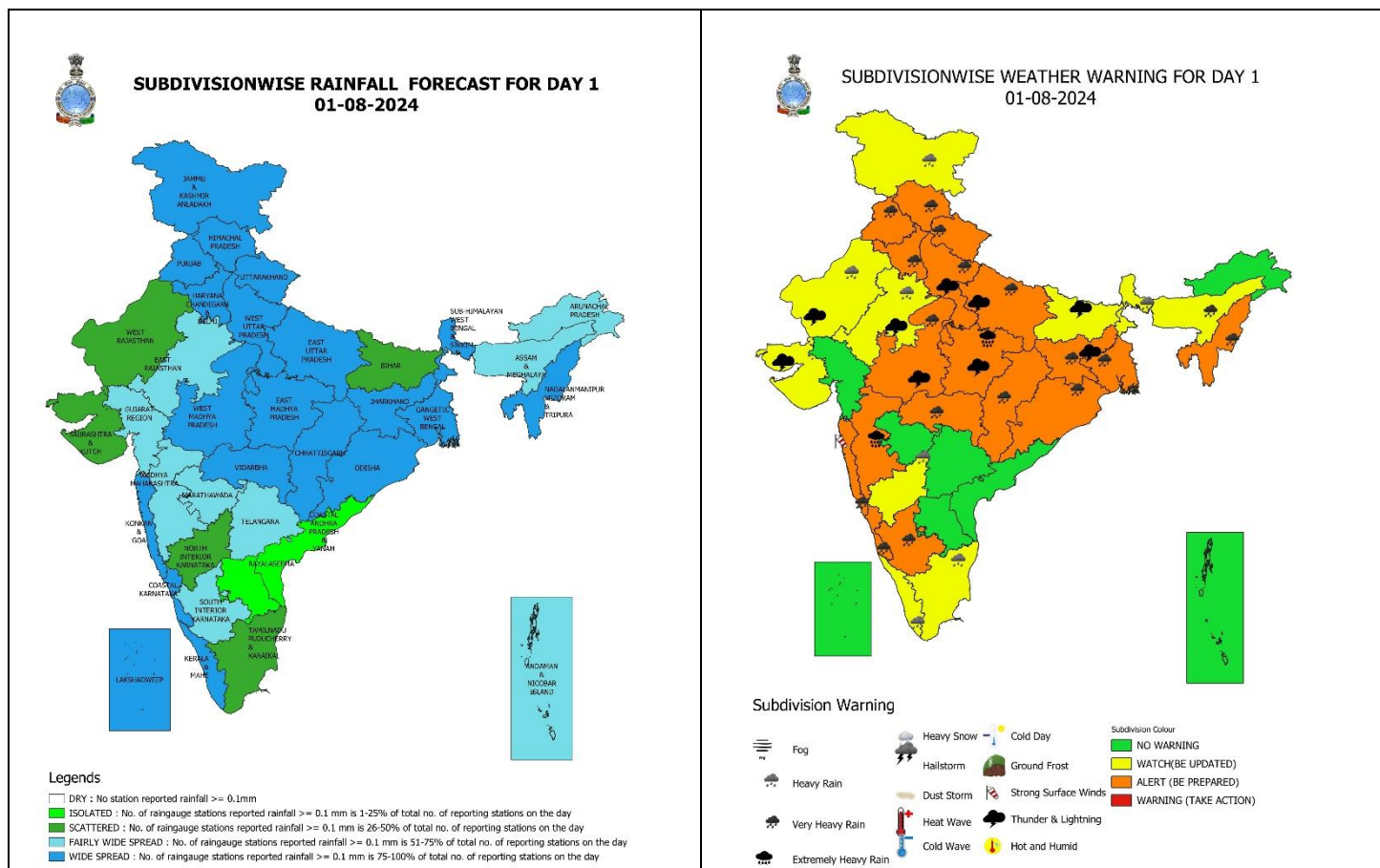


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 30-7-2024 to 0830 IST of 31-7-2024



## Legends

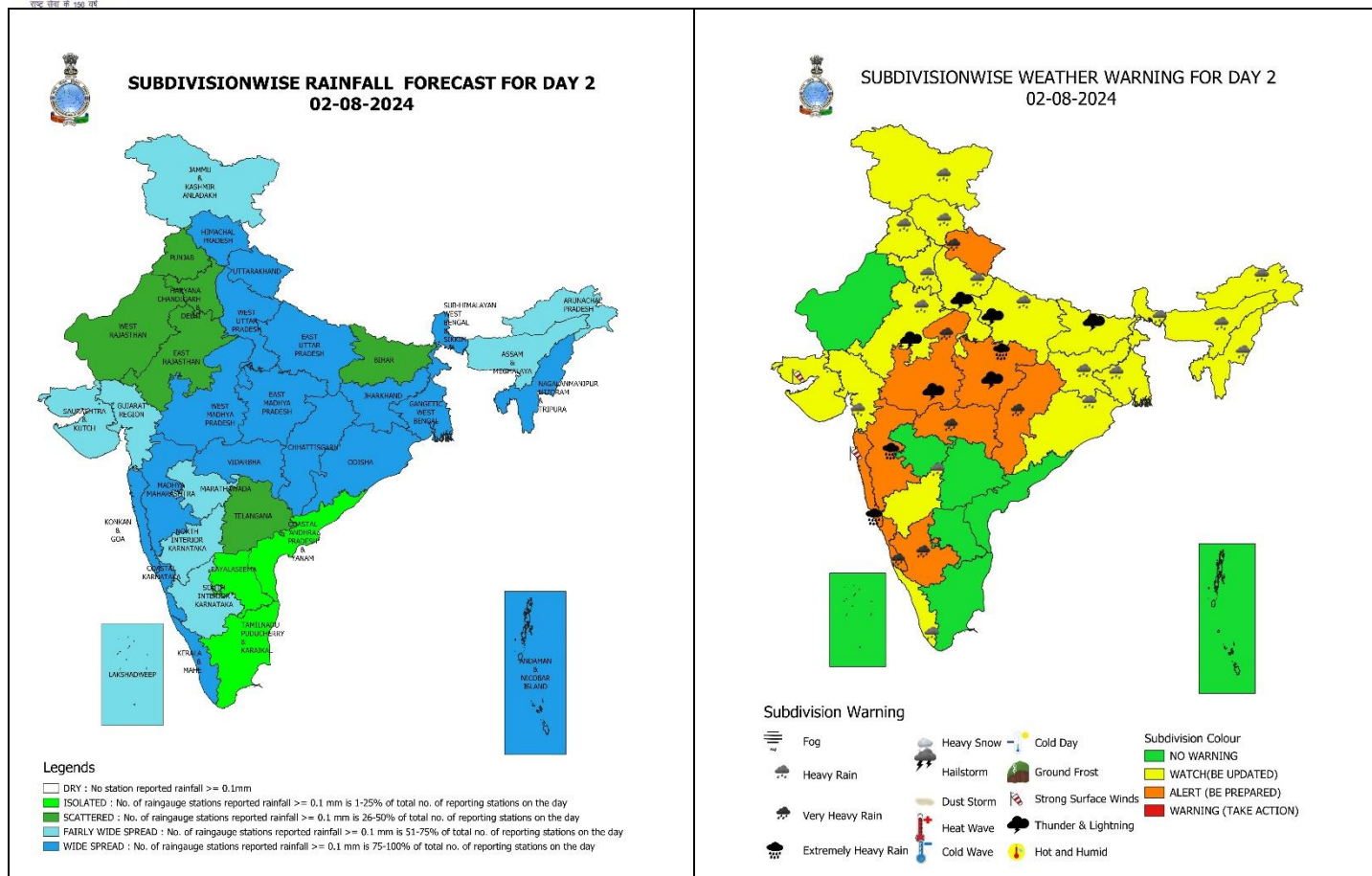
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall ( $\geq 204.5$  mm)



**01 August (Day 1):**

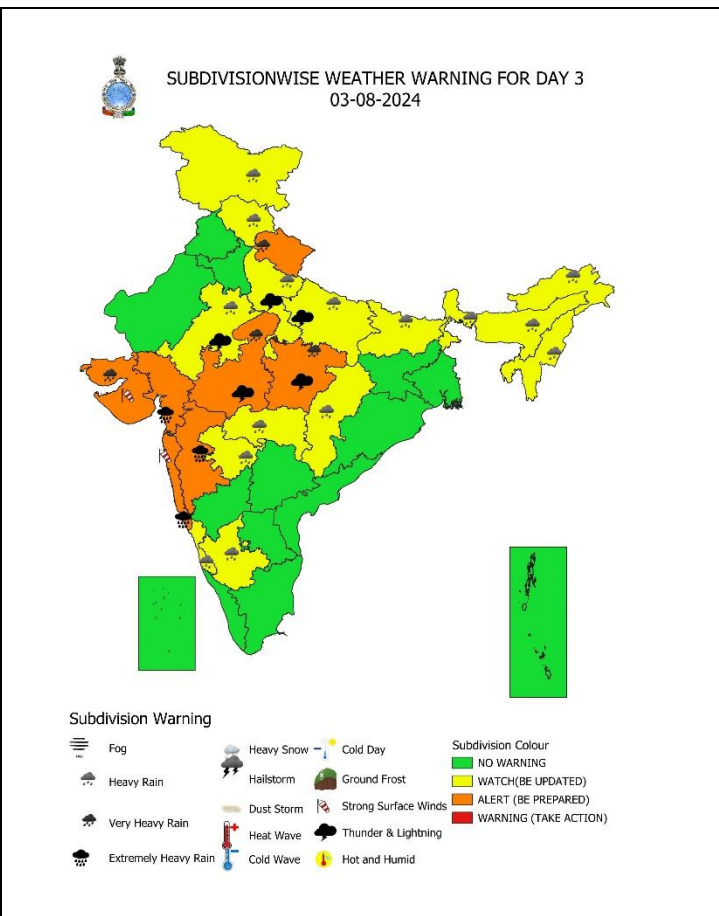
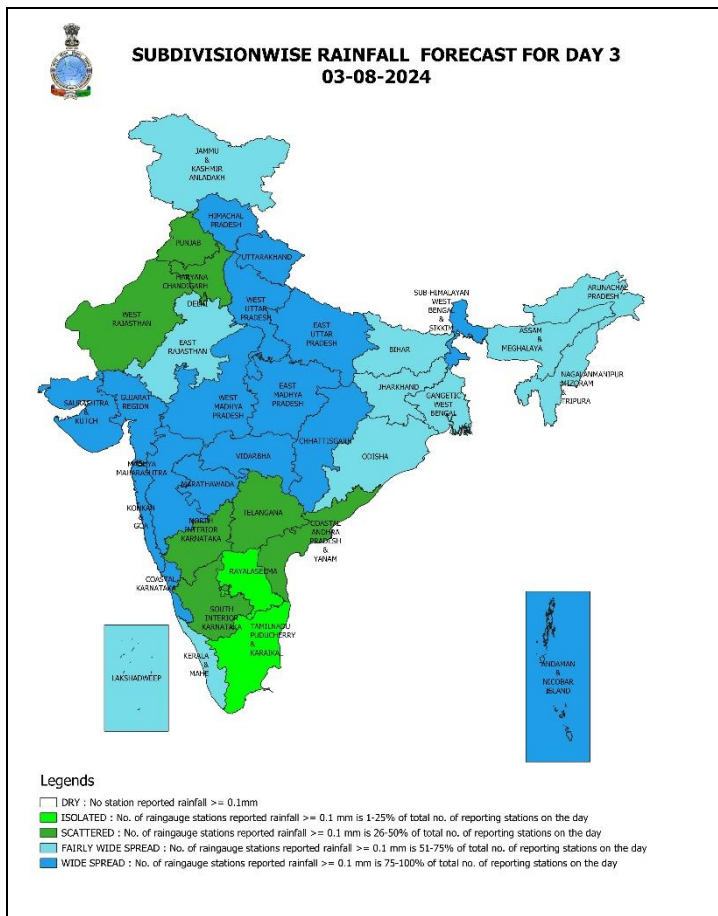
- ❖ **Heavy to very heavy rainfall with extremely heavy falls ( $> 20$  cm )** very likely at isolated places over East Madhya Pradesh and Madhya Maharashtra; **Heavy to very heavy rainfall ( $\geq 12$  cm)** at a few places over Konkan & Goa; at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh- Delhi, Uttar Pradesh, West Madhya Pradesh, Chhattisgarh, Vidarbha , Gangetic West Bengal, Jharkhand, Odisha, Assam & Meghalaya, Manipur, Mizoram, Coastal Karnataka and South Interior Karnataka; **Heavy rainfall ( $\geq 7$  cm)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar and Jharkhand.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over northeast and adjoining northwest and over most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, northern parts of southeast and adjoining southwest Arabian sea, along and off south Gujarat, north Maharashtra, gulf of Mannar, off Sri Lanka coast, over many parts of south Bay of Bengal & most parts of central adjoining southern parts of north Bay of Bengal. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over few parts over westcentral 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 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".  
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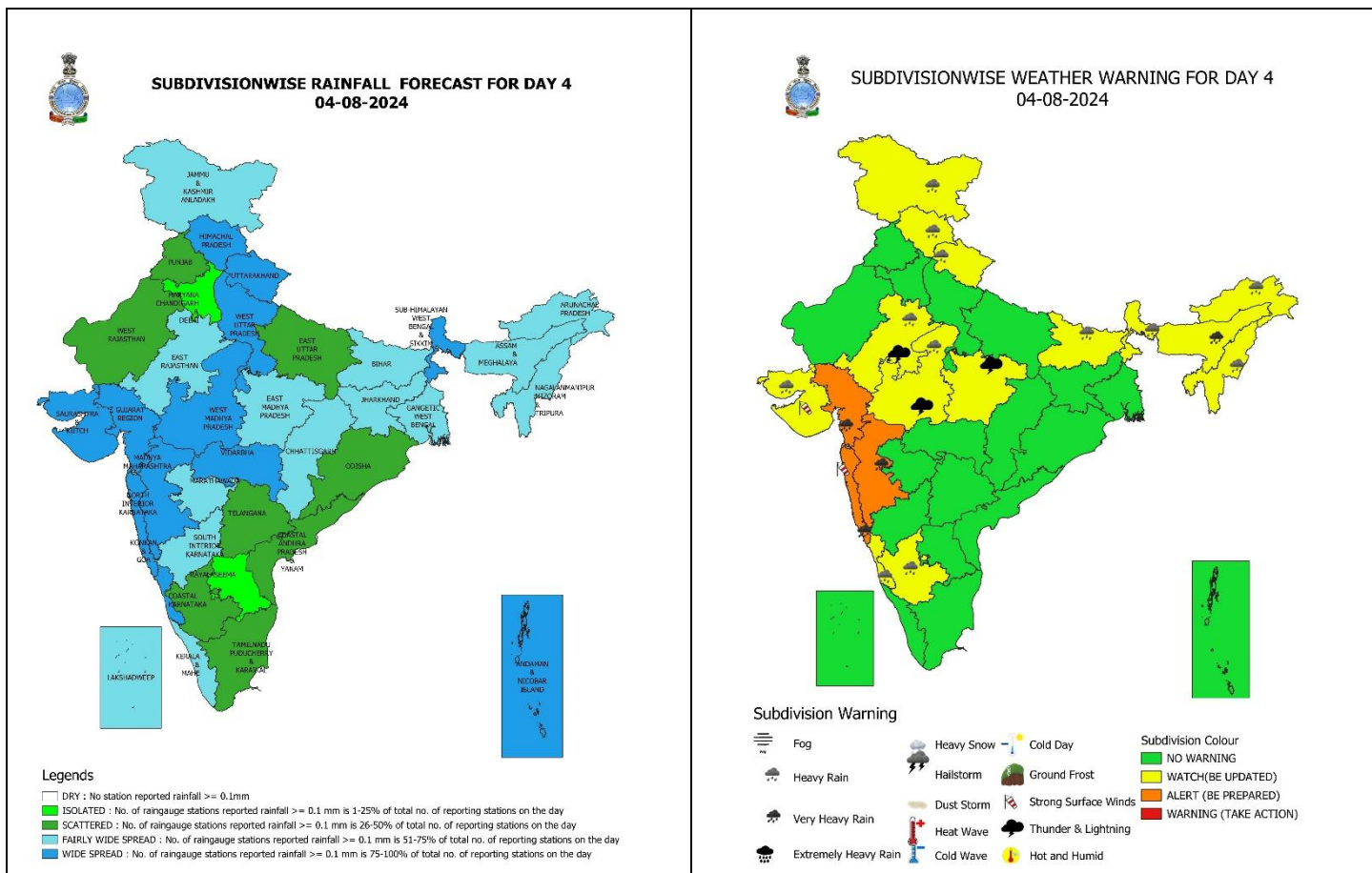
## 02 August (Day 2):

- ❖ **Heavy to very heavy rainfall at a few places with extremely heavy falls (> 20 cm )** at isolated places over Konkan & Goa; **Heavy to very heavy rainfall with extremely heavy falls (> 20 cm )** at isolated places over East Madhya Pradesh; **Heavy to very heavy rainfall ( $\geq 12$  cm)** at isolated places over Uttarakhand, West Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Karnataka and South Interior Karnataka; **Heavy rainfall ( $\geq 7$  cm)** at isolated places over Jammu-Kashmir, Himachal Pradesh, Punjab, Haryana-Chandigarh, Uttar Pradesh, East Rajasthan, West Bengal & Sikkim, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Kerala & Mahe and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttar Pradesh, East Rajasthan, Madhya Pradesh, 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 Arabian sea and adjoining parts of west central Arabian sea, along and off south Maharashtra, gulf of Mannar, off Sri Lanka coast, over many parts of southwest Bay of Bengal & few parts of southeast Bay of Bengal, most parts of central Bay of Bengal and adjoining southern parts of north Bay of Bengal. **Squally weather with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over Along and off Gujrat, Maharashtra coast over few parts of west central Bay of Bengal; **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.



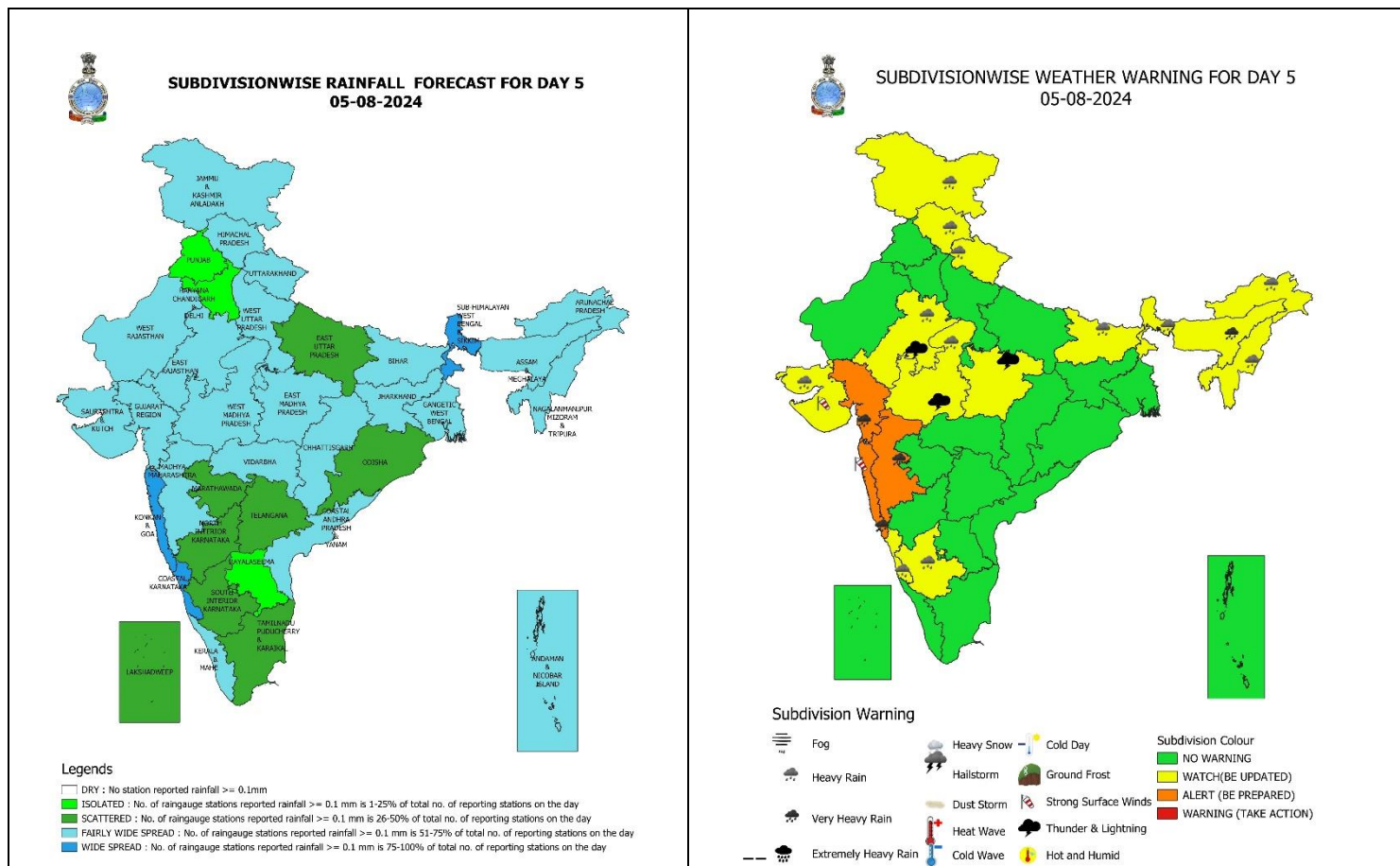
**03 August (Day 3):**

- ❖ **Heavy to very heavy rainfall with extremely heavy falls (> 20 cm)** likely at isolated places over Konkan & Goa, Gujarat Region and Madhya Maharashtra; **Heavy to very heavy rainfall (≥ 12 cm)** at isolated places over Uttarakhand, Madhya Pradesh and Saurashtra & Kutch; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Karnataka and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttar Pradesh, East Rajasthan, Madhya Pradesh 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 eastcentral Arabian sea and adjoining parts of west central Arabian sea, along and south Maharashtra coasts. northern parts of southeast and adjoining southwest Arabian sea gulf of Mannar, off Sri Lanka coast, over many parts of south Bay of Bengal & most parts of central Bay of Bengal and adjoining southern parts of northwest Bay of Bengal. **Squally weather with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over along and off Gujrat, Maharashtra coast. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.



## 04 August (Day 4):

- ❖ **Heavy to very heavy rainfall ( $\geq 12$  cm)** likely at isolated places over Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra and Gujarat Region; **Heavy rainfall ( $\geq 7$  cm)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Coastal Karnataka and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over East Rajasthan, Madhya Pradesh 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 eastcentral Arabian sea and adjoining parts of west central Arabian sea, along and off Gujarat, Maharashtra coasts, gulf of Mannar, off Sri Lanka coast most parts of central Bay of Bengal and adjoining southern parts of northwest 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 southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.

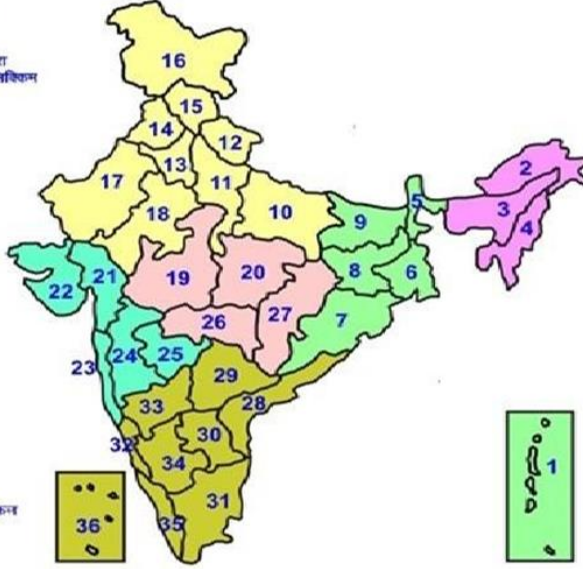


**05 August (Day 5):**

- ❖ **Heavy to very heavy rainfall ( $\geq 12$  cm)** likely at isolated places over Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra and Gujarat Region; **Heavy rainfall ( $\geq 7$  cm)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Coastal Karnataka and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over East Rajasthan, Madhya Pradesh 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 eastcentral Arabian sea and adjoining parts of west central Arabian sea, along and off Gujarat, Maharashtra coasts, gulf of Mannar, off Sri Lanka coast most parts of central Bay of Bengal and adjoining southern parts of northwest 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 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 उत्तराखंड
- 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 कराईकल
- 32 उत्तरि कर्नाटक
- 33 अंतरि 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. 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  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
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  $40^\circ\text{C}$

Warm Night: When minimum temperature departure  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
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)