

Wednesday, July 10, 2024  
Time of Issue: 0745 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### Weather Systems

- ✓ The Monsoon trough is active and south of its normal position in lower tropospheric levels.
- ✓ A shear zone runs over north peninsular India in middle levels tilting southwards with height.
- ✓ The off-shore trough at mean sea level runs along Maharashtra- north Kerala coasts.
- ✓ A cyclonic circulation over south Gujarat in lower tropospheric levels.

#### Forecast & Warnings

##### ❖ West and South Peninsular India

- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm & lightning very likely over Konkan & Goa, Madhya Maharashtra, Marathwada, Kerala & Mahe, Lakshadweep, Karnataka; scattered to fairly widespread light to moderate rainfall over Gujarat Region, Coastal Andhra Pradesh & Yanam, Telangana; isolated to scattered light to moderate rainfall over Tamil Nadu, Puducherry & Karaikal and Rayalaseema during next 5 days.
- ✓ isolated **heavy rainfall** over Gujarat Region, North Interior Karnataka during 10<sup>th</sup>-13<sup>th</sup>; Saurashtra & Kutch, Telangana on 10<sup>th</sup>; Kerala & Mahe and South Interior Karnataka on 12<sup>th</sup> & 13<sup>th</sup> July.
- ✓ **Isolated heavy to very heavy rainfall very likely over Konkan & Goa, Madhya Maharashtra and Coastal Karnataka during 10<sup>th</sup>-13<sup>th</sup> July.**

##### ❖ East & Northeast India

- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning very likely over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Bihar and Northeast India; scattered to fairly widespread light to moderate rainfall over Gangetic West Bengal, Jharkhand, Odisha during next 5 days.
- ✓ isolated **heavy rainfall** over Jharkhand on 12<sup>th</sup> & 13<sup>th</sup>; Odisha on 13<sup>th</sup> and Nagaland, Manipur, Mizoram & Tripura on 10<sup>th</sup> & 13<sup>th</sup> July.
- ✓ **Heavy to very heavy rainfall very likely at some places over Sub-Himalayan West Bengal & Sikkim on 10<sup>th</sup> & 11<sup>th</sup>; at isolated places over Bihar, Arunachal Pradesh, Assam & Meghalaya during 10<sup>th</sup> - 13<sup>th</sup> July.**
- ✓ **Isolated extremely heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim on 10<sup>th</sup> & 11<sup>th</sup>; Arunachal Pradesh on 10<sup>th</sup> and Assam & Meghalaya on 10<sup>th</sup> July.**

##### ❖ Northwest & Central India

- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm & lightning very likely over Uttarakhand and Central India; scattered to fairly widespread light to moderate rainfall over Himachal Pradesh, Uttar Pradesh; isolated to scattered light to moderate rainfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana-Chandigarh-Delhi and Rajasthan during next 5 days.
- ✓ Isolated **heavy rainfall** very likely over north Haryana and Vidarbha on 10<sup>th</sup>; Madhya Pradesh during 10<sup>th</sup>-13<sup>th</sup>; East Uttar Pradesh during 10<sup>th</sup>-13<sup>th</sup>; Uttarakhand, Himachal Pradesh, West Uttar Pradesh during 10<sup>th</sup>-12<sup>th</sup>; Jammu, north Punjab on 12<sup>th</sup>; East Rajasthan on 10<sup>th</sup> & 11<sup>th</sup>; Chhattisgarh during 11<sup>th</sup>-13<sup>th</sup> July.
- ✓ **Isolated heavy to very heavy rainfall also likely over East Uttar Pradesh during 10<sup>th</sup>-12<sup>th</sup> July.**

## Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours to 1730 hours IST of yesterday): at **most places** over Arunachal Pradesh, Delhi and Kerala & Mahe; at **many places** over Assam & Meghalaya, Konkan & Goa, Saurashtra & Kutch and Coastal Karnataka; at **a few places** over Sub-Himalayan West Bengal & Sikkim, Vidarbha, Coastal Andhra Pradesh & Yanam and Lakshadweep; at **isolated places** over Bihar, Chhattisgarh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Telangana, Madhya Pradesh, Gujarat Region, Rajasthan, Uttar Pradesh, Himachal Pradesh, Madhya Maharashtra, Odisha, and Interior Karnataka.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Konkan & Goa**: Ratnagiri & Panjim-3 each; **Sub-Himalayan West Bengal & Sikkim**: Cooch Behar-2; **Madhya Maharashtra**: Mahabaleshwar-1; **Coastal Karnataka**: Mangalore-2, Karwar & Honavar-1 each; **West Madhya Pradesh**: Indore & Gwalior-1 each; **Rajasthan**: Udaipur & Barmer-1 each; **Gujarat Region**: Baroda-3; **Saurashtra & Kutch**: Naliya-1; **Telangana**: Kothagudem-4, Mahboobnagar-1; **West Uttar Pradesh**: Muzaffarnagar-1; **East Uttar Pradesh**: Gazipur-5; **Vidarbha**: Chandrapur-2, Gadchiroli-1; **Assam & Meghalaya**: Cherrapunji-2; **Delhi**: Safdarjung-3, Ridge, Palam & Ayanagar-1 each; **Lakshadweep**: Aminidivi-1; **Kerala**: Kannur-1; **Odisha**: Puri-1; **Mizoram**: Aizwal-1.
- ❖ **Minimum Temperature Departures (as on 09-07-2024)**: Minimum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Gujarat state, Punjab, East Uttar Pradesh, Bihar, Rajasthan, East Madhya Pradesh; at isolated places over Himachal Pradesh, Odisha, Lakshadweep, Andaman & Nicobar Islands. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Haryana-Chandigarh-Delhi, West Uttar Pradesh, Vidarbha, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 22.0°C** was reported at **Ridge (Delhi)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 09-07-2024)**: Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Gangetic West Bengal; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Assam & Meghalaya, Bihar, Jharkhand, Odisha, Chhattisgarh, East Madhya Pradesh and Gujarat Region. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Uttarakhand, East Uttar Pradesh and Delhi; **below normal (-1.6°C to -3.0°C)** at most places over Coastal Karnataka; at many places over Haryana; at a few places over Konkan & Goa; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Punjab, Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature of 41.0°C** was reported at **Jaisalmer (West Rajasthan)** over the country.

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

- ❖ The Monsoon trough at mean sea level now passes through Jaisalmer, Ajmer, Guna, Satna, Daltonganj, Jamshedpur, Digha and thence east-southeastwards to northeast Bay of Bengal and extends upto 1.5 km above mean sea level.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The off-shore trough at mean sea level along Maharashtra - north Kerala coasts persists.
- ❖ The shear zone roughly along 18°N between 3.1 & 7.6 km above mean sea level tilting southwards with height persists.
- ❖ The cyclonic circulation over south Gujarat at 1.5 km above mean sea level persists.

### Weather Forecast for next 7 days (Upto 0830 hours IST of 17<sup>th</sup> July, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Thunderstorm accompanied with lightning very likely at isolated places over Northwest and South Peninsular India during 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 17<sup>th</sup>-19<sup>th</sup> July, 2024)

- ❖ Fairly widespread to widespread rainfall likely over most parts of the country except plains of northwest India and East peninsular India where isolated to scattered rainfall likely.

Table-1

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

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.  
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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

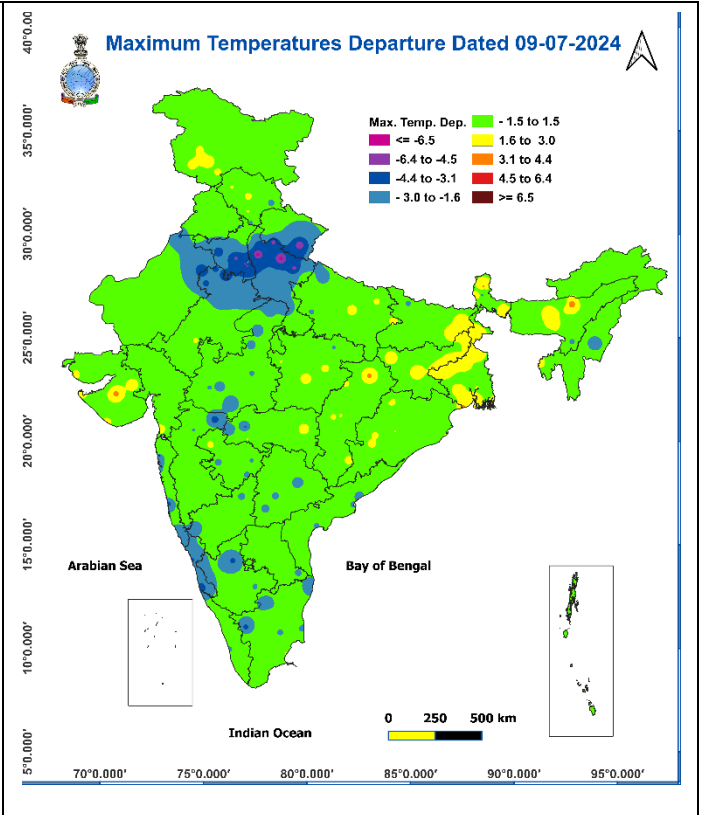
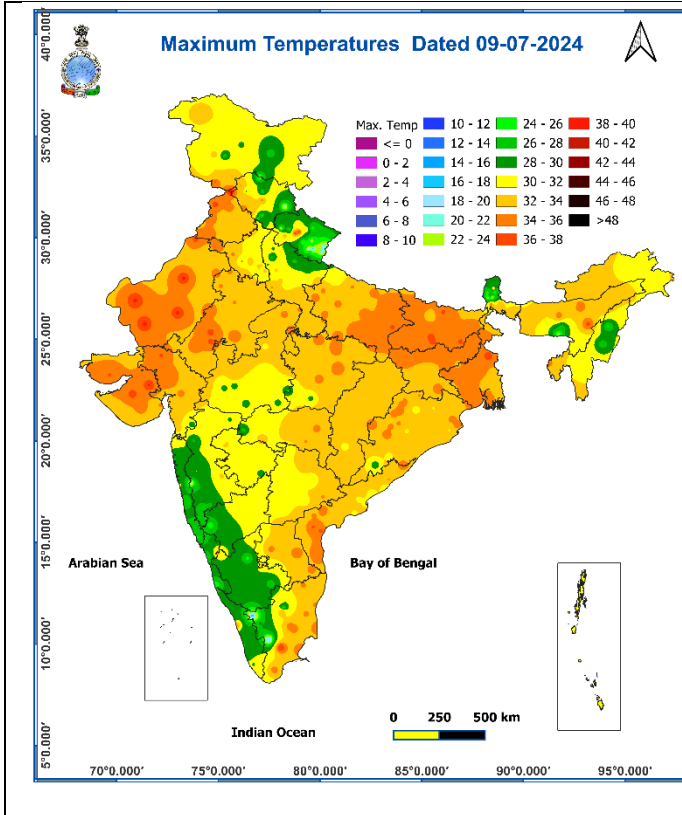


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

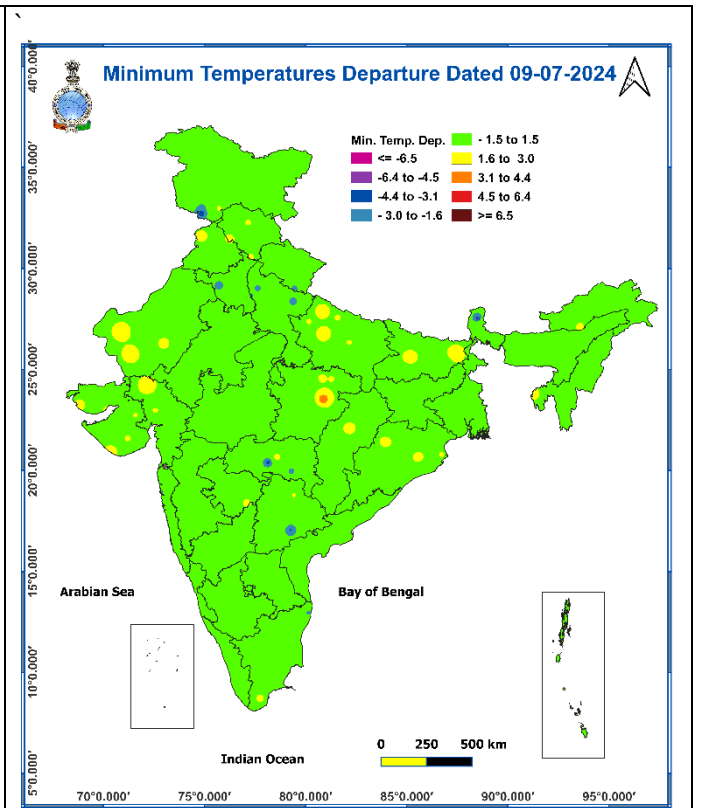
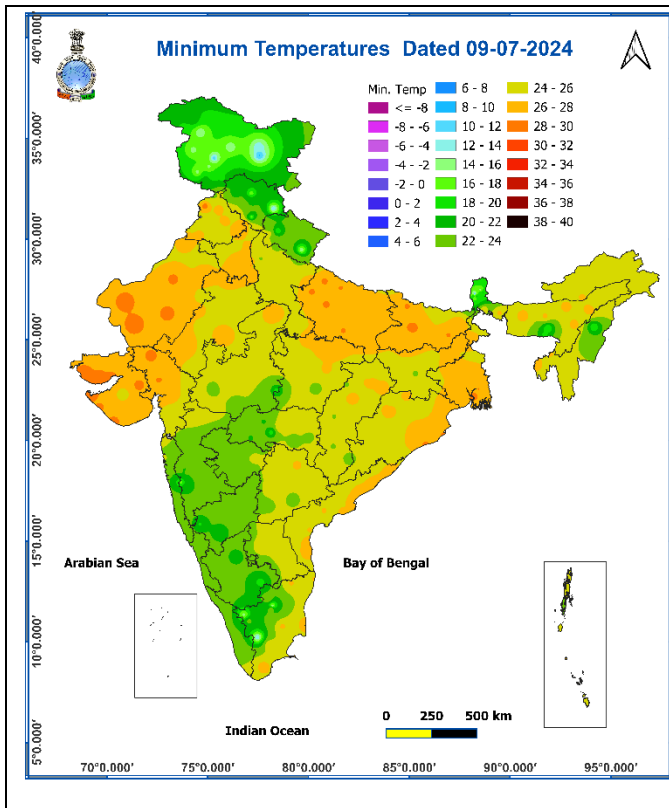
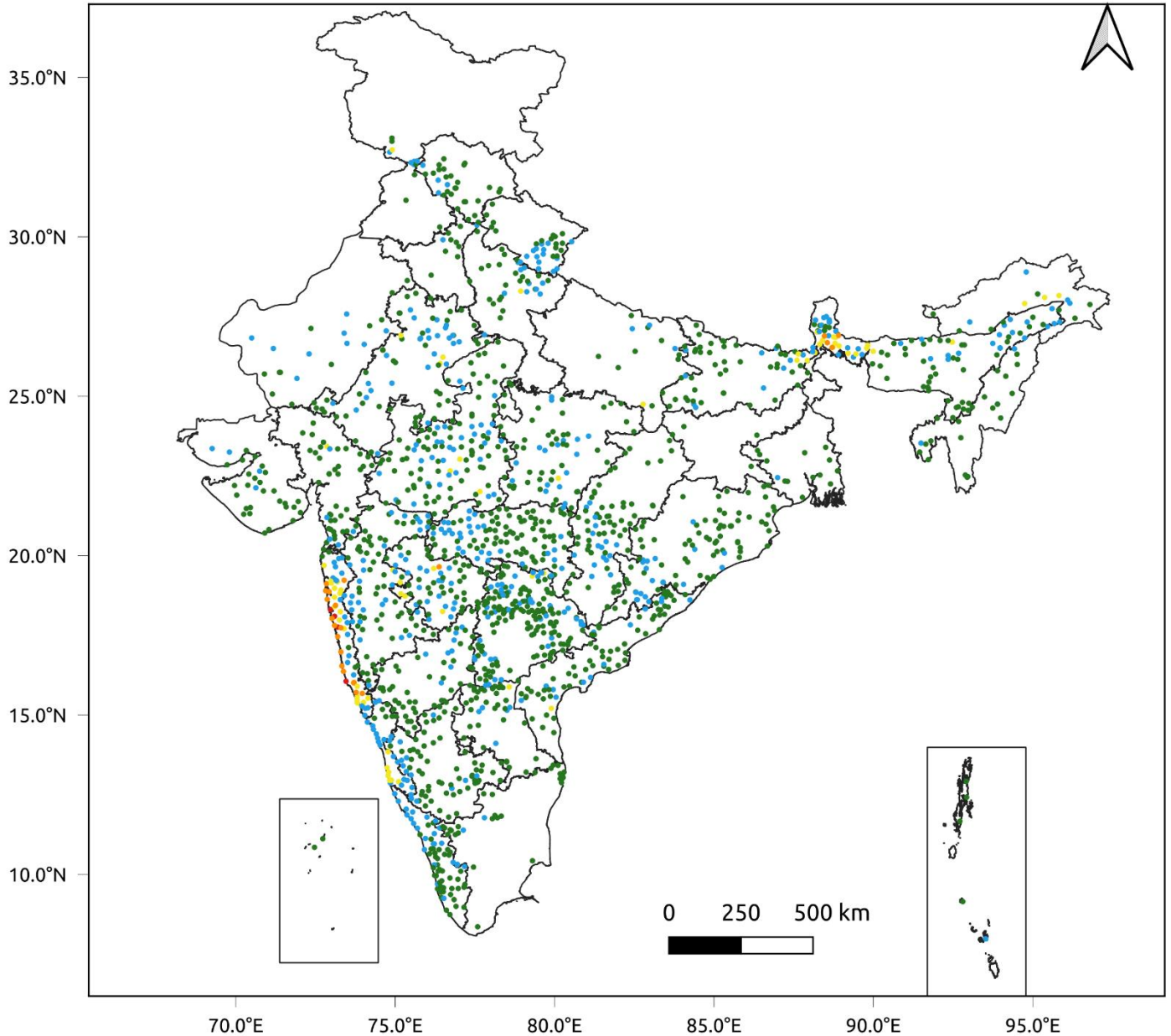


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

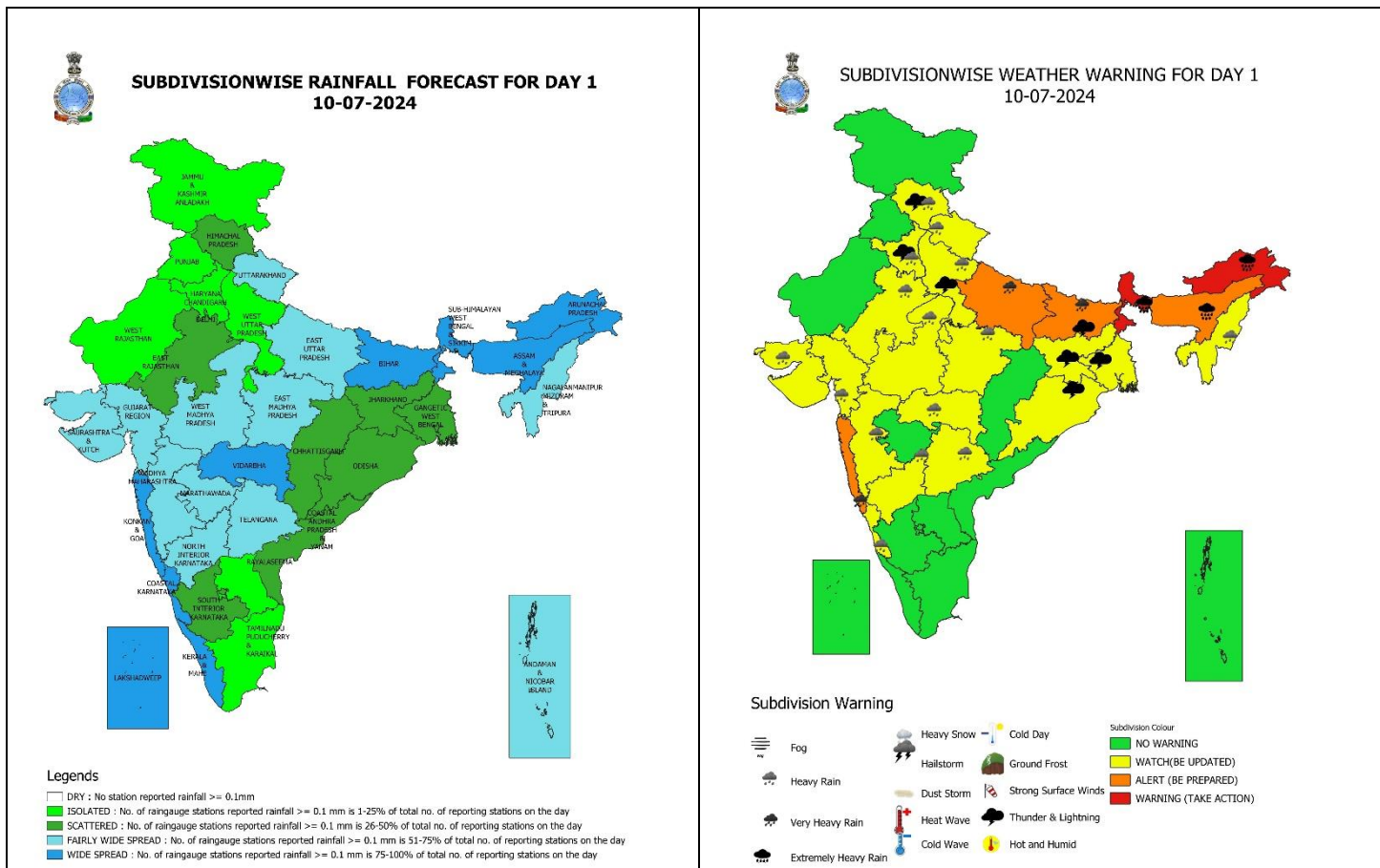


## 24 Hr cumulative rainfall recorded over different stations during 0830 IST of 8-7-2024 to 0830 IST of 9-7-2024



### Legends

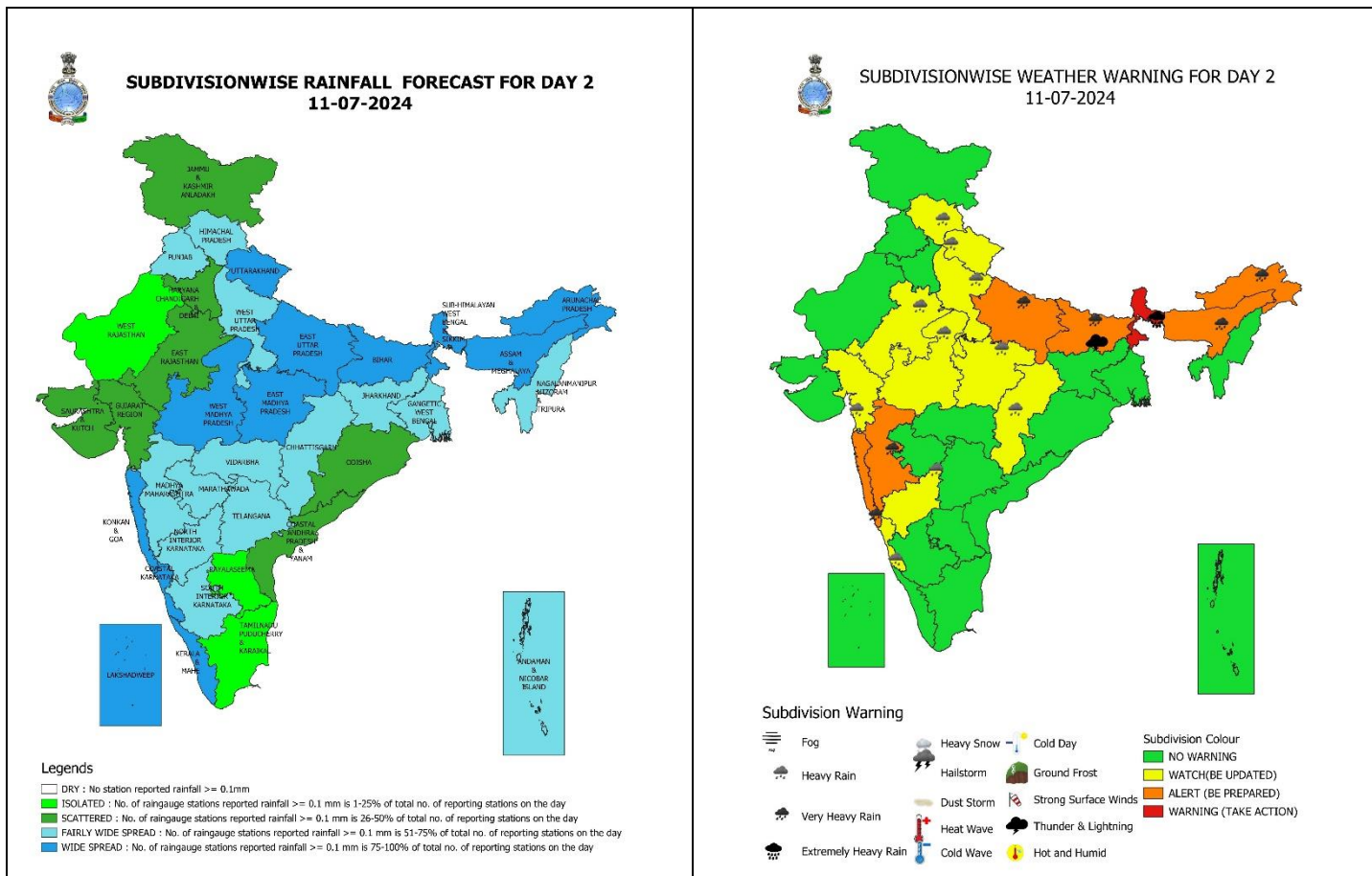
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall ( $\geq 204.5$  mm)



**10 July (Day 1):**

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya; **Heavy to very heavy rainfall** likely at isolated places over East Uttar Pradesh, Bihar, Konkan & Goa; **Heavy rainfall** at isolated places over Uttarakhand, Himachal Pradesh, north Haryana, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Telangana and Coastal Karnataka.
- ❖ **Thunderstorm accompanied with lightning** at isolated places over Himachal Pradesh, West Uttar Pradesh, Haryana-Chandigarh-Delhi, West Bengal & Sikkim, Bihar, Jharkhand and Odisha.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over many parts of eastcentral and westcentral Arabian sea, northern parts of southwest Arabian sea, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central Bay of Bengal and adjoining northwest Bay of Bengal, off north Andhra Pradesh, south Odisha coasts. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, adjoining and northern parts of southwest Arabian sea, over most parts of westcentral Arabian sea, along and off south Oman coast. Fishermen are advised not to venture into these areas.

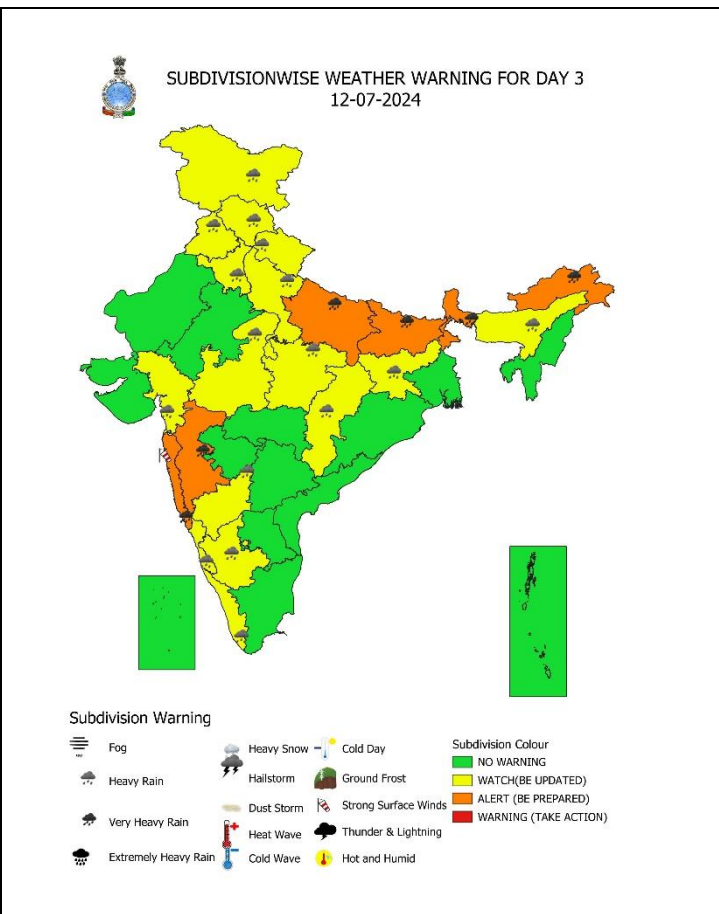
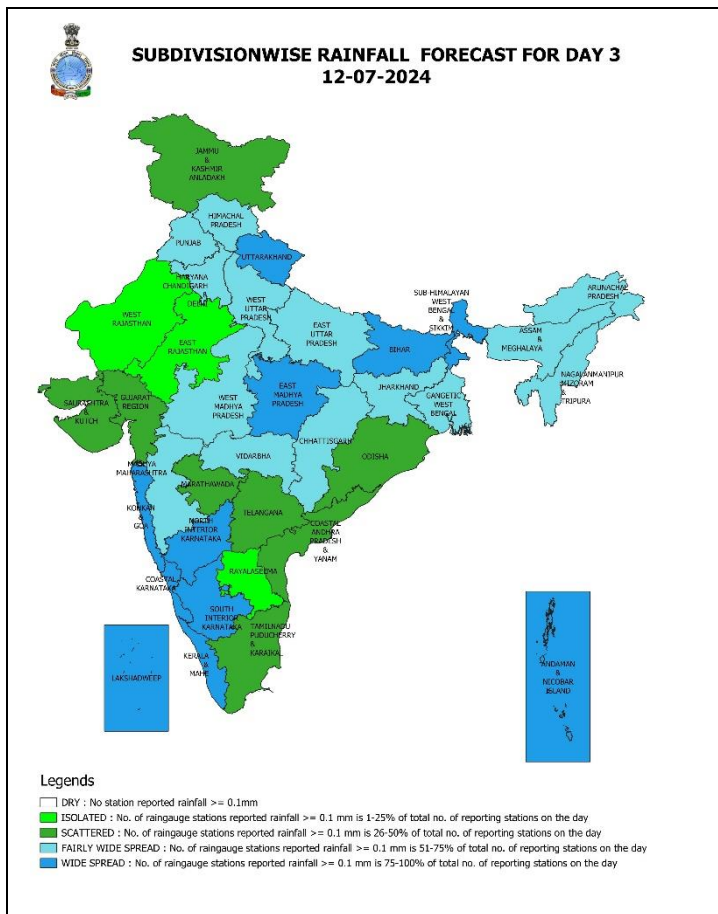
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**11 July (Day 2):**

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, **Heavy to very heavy rainfall** likely at isolated places over East Uttar Pradesh, Bihar; Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa and Madhya Maharashtra; **Heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Gujarat Region, North Interior & Coastal Karnataka.
- ❖ **Thunderstorm accompanied with lightning** at isolated places over Bihar.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, many parts of eastcentral and most parts of westcentral Arabian sea, northern parts of southwest Arabian sea and adjoining southeast Arabian sea, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central and northwest Bay of Bengal, off north Andhra Pradesh and south Odisha coasts. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, adjoining and northern parts of southwest Arabian sea, over most parts of westcentral Arabian sea, along and off south Oman coast. Fishermen are advised not to venture into these areas.

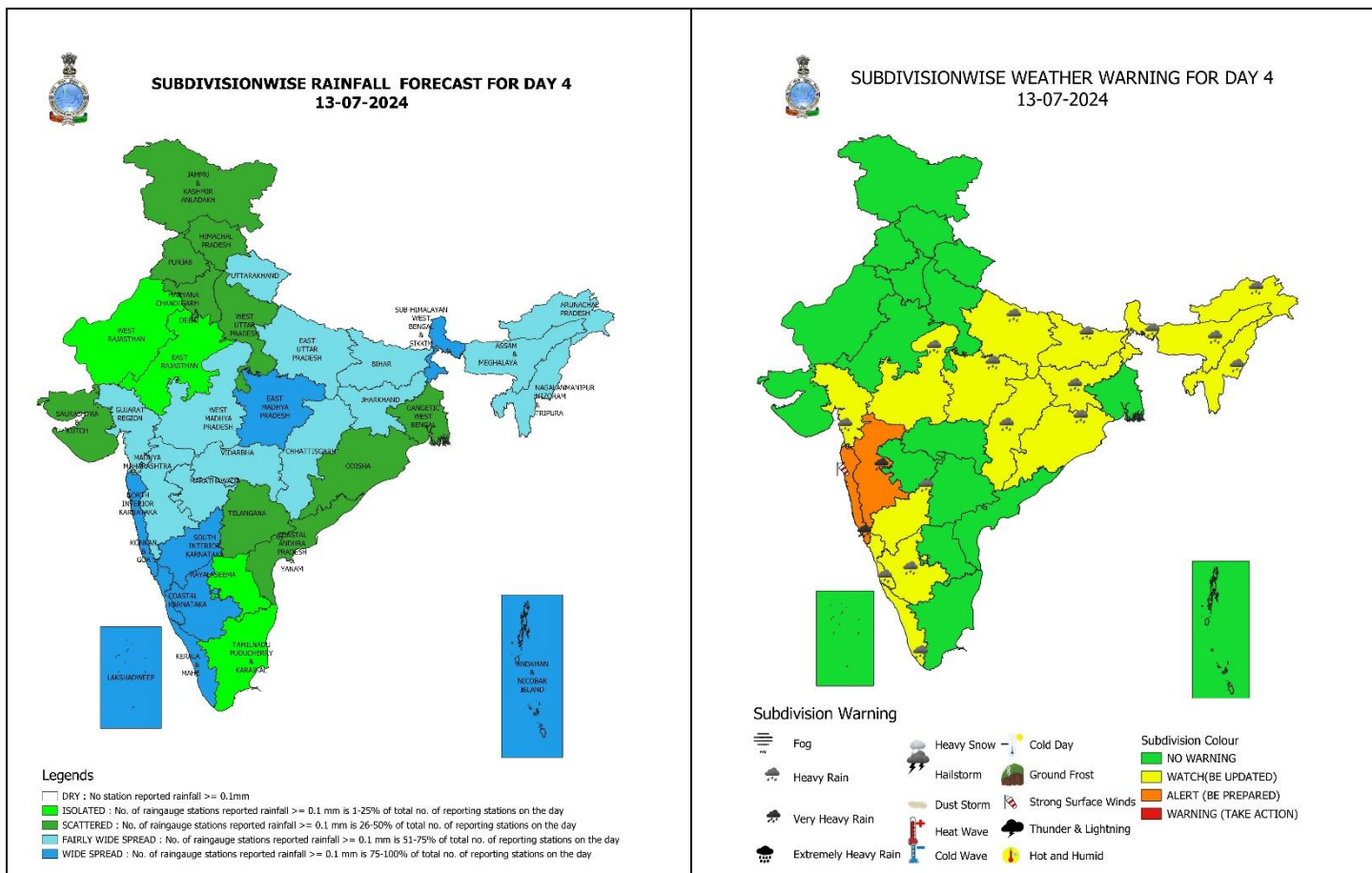
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**12 July (Day 3):**

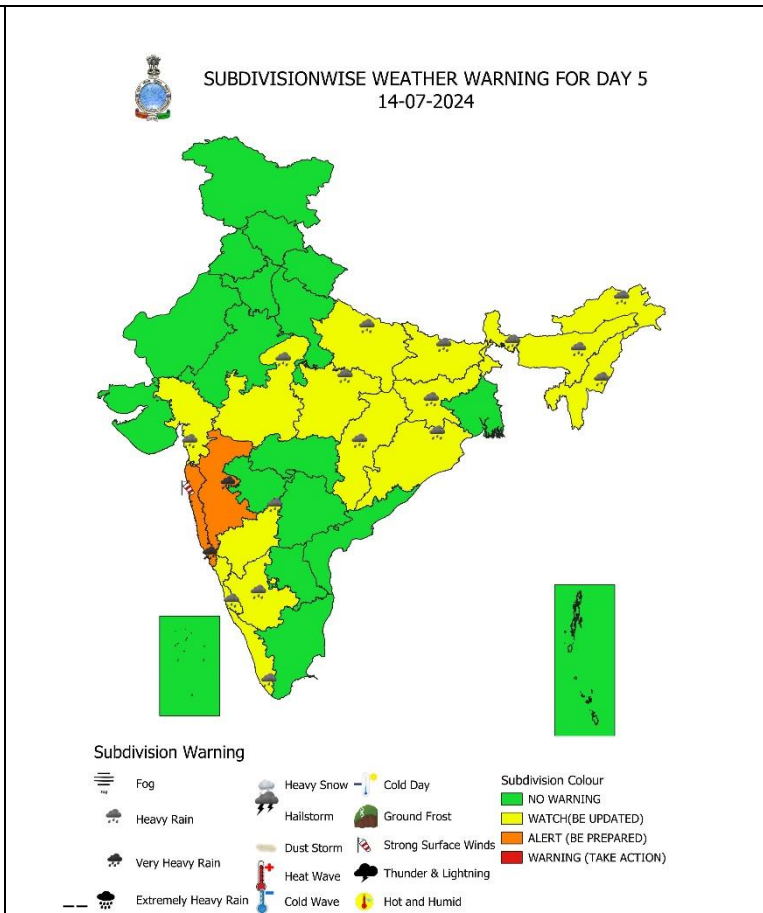
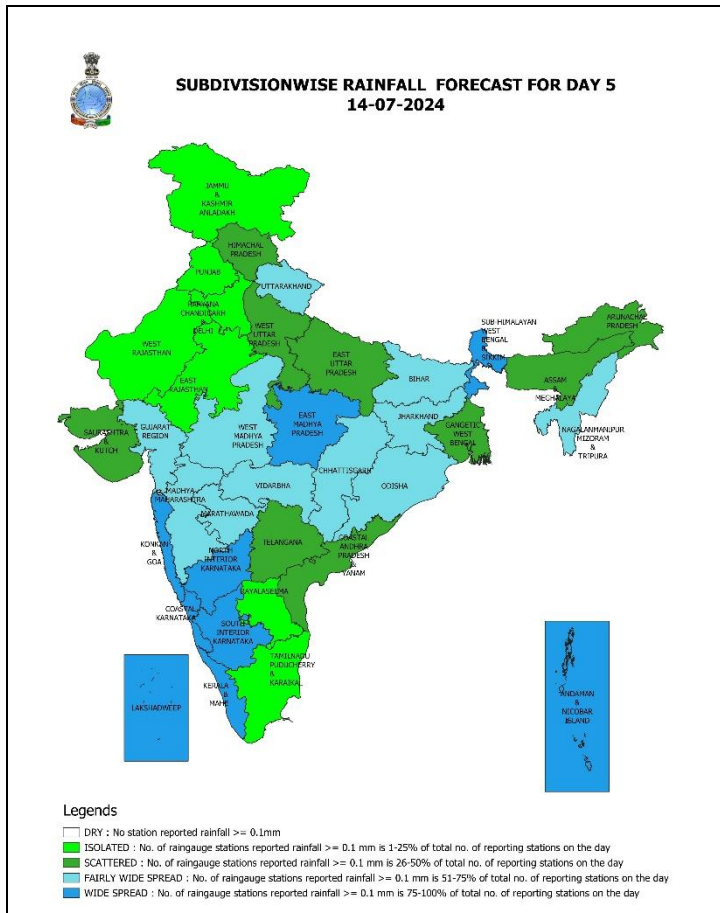
❖ **Heavy to very heavy rainfall** likely at isolated places East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Himachal Pradesh, Uttarakhand, north Punjab, north Haryana, West Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Jharkhand, Assam & Meghalaya, Gujarat Region, Kerala & Mahe, Karnataka.

❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast Arabian sea and most parts of southwest Arabian sea, along and off Gujarat, Maharashtra, Konkan, goa coasts, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central Bay of Bengal and north Bay of Bengal, off north Andhra Pradesh and south Odisha coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central parts of west central Bay of Bengal, along and off Somalia coast & adjoining and northern parts of southwest Arabian sea, over westcentral Arabian sea, adjoining eastcentral Arabian sea, southern parts of northwest Arabian sea, along and off Oman coast. Fishermen are advised not to venture into these areas.



**13 July (Day 4):**

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Konkan & Goa, Madhya Maharashtra; **Heavy rainfall** at isolated places over East Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Karnataka.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast Arabian sea and most parts of southwest Arabian sea, along and off Gujarat, Maharashtra, Konkan, goa coasts, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central Bay of Bengal and north Bay of Bengal, off north Andhra Pradesh and south Odisha coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central parts of west central Bay of Bengal, along and off Somalia coast & adjoining and northern parts of southwest Arabian sea, over westcentral Arabian sea, adjoining eastcentral Arabian sea, southern parts of northwest Arabian sea, along and off Oman coast. Fishermen are advised not to venture into these areas.



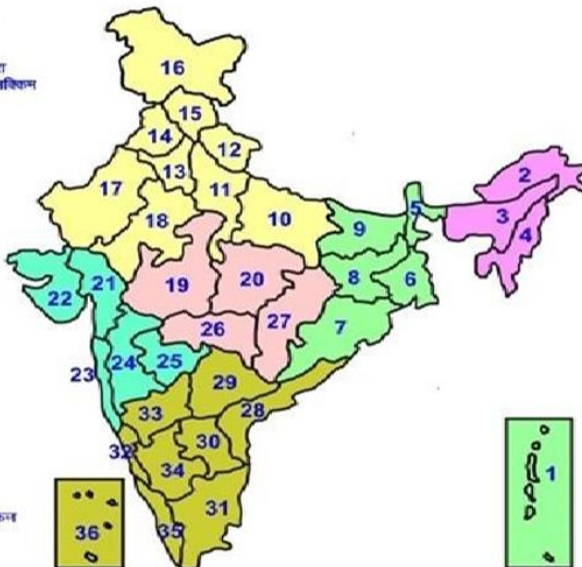
**14 July (Day 5):**

❖ **Heavy to very heavy rainfall** likely at isolated places over Konkan & Goa, Madhya Maharashtra; **Heavy rainfall** at isolated places over East Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Karnataka.

❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast Arabian sea and most parts of southwest Arabian sea, along and off Gujarat, Maharashtra, Konkan, goa coasts, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central Bay of Bengal and north Bay of Bengal, off north Andhra Pradesh and south Odisha coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central parts of west central Bay of Bengal, along and off Somalia coast & adjoining and northern parts of southwest Arabian sea, over westcentral Arabian sea, adjoining eastcentral Arabian sea, southern parts of northwest Arabian sea, along and off Oman coast. 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 उत्तर कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक 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

\* 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

### 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)