

Saturday, July 6, 2024
Time of Issue: 0745 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- ❖ Monsoon trough is near normal position at mean sea level and a cyclonic circulation lies over southwest Uttar Pradesh upto mid-tropospheric levels; another cyclonic circulation lies over West Rajasthan & adjoining Pakistan and a trough runs from West Rajasthan to Manipur in lower tropospheric levels. Under their influence;
 - ✓ Fairly widespread to widespread light/moderate rainfall accompanied with thunderstorm, lightning very likely over Northwest and Central India during next 5 days.
 - ✓ Isolated heavy rainfall very likely over Himachal Pradesh, Haryana-Chandigarh on 06th; Uttarakhand, Uttar Pradesh, East Rajasthan, East Madhya Pradesh during 06th – 09th; Punjab, West Madhya Pradesh on 07th; Vidarbha on 08th & 09th; Chhattisgarh during 07th – 09th July.
 - ✓ **Isolated very heavy rainfall likely over Uttarakhand, East Uttar Pradesh on 06th & 07th; Punjab, West Uttar Pradesh and West Madhya Pradesh on 06th July.**
 - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning very likely over East & Northeast India during next 5 days.
 - ✓ Isolated **heavy rainfall** very likely over West Bengal & Sikkim, Bihar during 07th – 09th; Jharkhand on 07th; Odisha on 06th & 08th; Nagaland, Manipur, Mizoram & Tripura during 06th – 09th July.
 - ✓ **Isolated very heavy rainfall likely over West Bengal & Sikkim on 06th; Bihar on 06th; Odisha on 07th; Arunachal Pradesh, Assam & Meghalaya during 06th– 09th July.**
- ❖ A cyclonic circulation lies over south Gujarat in lower tropospheric levels. The off-shore trough at mean sea level runs along south Gujarat- Kerala coasts. Under the influence of these systems;
 - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm & lightning very likely over Kerala & Mahe, Lakshadweep, Coastal Karnataka, Konkan & Goa, Gujarat State; scattered to fairly widespread light to moderate rainfall over Madhya Maharashtra, Marathwada Coastal Andhra Pradesh & Yanam and Interior Karnataka; isolated to scattered light to moderate rainfall over Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Telangana during next 5 days.
 - ✓ Isolated **heavy rainfall** very likely over Gujarat Region on 06th; Kerala & Mahe during 06th–08th; Coastal Andhra Pradesh & Yanam on 06th - 08th; Telangana on 08th & 09th; Coastal & South Interior Karnataka during 07th–09th; North Interior Karnataka on 08th July.
 - ✓ **Isolated very heavy rainfall very likely over Konkan & Goa, Coastal Karnataka on 06th; Madhya Maharashtra on 06th & 07th; South Interior Karnataka on 06th July.**
 - ✓ **Isolated extremely heavy rainfall very likely over Coastal Karnataka on 06th July.**

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Lakshadweep; at many places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Odisha, Madhya Pradesh, Konkan & Goa, Coastal Karnataka, Kerala & Mahe; at a few places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Vidarbha, Gujarat state, Madhya Maharashtra, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Andaman & Nicobar Islands; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Delhi, Rajasthan, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to very heavy rainfall** at isolated places over Coastal Karnataka and **heavy rainfall** at isolated places over East Uttar Pradesh and Sub-Himalayan West Bengal.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Coastal Karnataka:** Honavar-13, Karwar-6, Mangalore-1; **Sub-Himalayan West Bengal & Sikkim:** Kalimpong-9, Darjeeling-8, Jalpaiguri-5, Bagdogra, Cooch Behar & Gangtok-1 each; **Assam & Meghalaya:** Golapara & Cherrapunji-4 each, Dhubri-2; **Gujarat Region:** Surat-3, Bulsar-1; **East Uttar Pradesh:** Gorakhpur-7, Prayagraj-4, Ballia & Bahraich-3 each, Lakhimpur Kheri-1; **West Uttar Pradesh:** Bareilly & Moradabad-2 each, Shahajahanpur-1; **Rajasthan:** Bikaner, Jaipur & Kota-2 each; **Arunachal Pradesh:** Pasighat-2; **Himachal Pradesh:** Una-4, Kangra-3, Dharmshala & Sundernagar-1 each; **Konkan & Goa:** Matheran & Ratnagiri-3 each; **Uttarakhand:** Dehradun-4, Tehri-3, Mukteshwar-2; **Madhya Pradesh:** Shivpuri-2, Bhopal, Sagar, Hoshangabad, Umaria, Malanjhand & Dhar-1 each; **Chhattisgarh:** Jagdalpur-4, Raipur-1; **Bihar:** Purnea-5, Patna-4, Gaya, Motihari & Muzaffarpur-3 each, Bhagalpur-1; **Madhya Maharashtra:** Mahabaleshwar-1; **Gangetic West Bengal:** Bankura-5, Panagarh-1; **Odisha:** Dhenkanal-3, Talcher-2, Rourkela & Angul-1 each; **Rayalaseema:** Tirupathi-3; **Kerala:** Punalur-4, Alapuzha & Kottayam-1 each; **Tamil Nadu:** Valprai-2, Tiruttani-1; **Andaman & Nicobar Islands:** Port Blair & Hut Bay-1 each; **Lakshadweep:** Amini Divi-1.
- ❖ **Reported maximum wind speed (in knot)** (from 0830 hours IST to 1730 hours IST of yesterday): **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:** Nyoma-36, Padum & Yokma-35 each, Khaltse-34, Durbuk-27; **Himachal Pradesh:** Reckon & Tabo-22 each; **Rajasthan:** Nagaur-40, Fatehpur-26, Jaisalmer-22; **Gujarat:** Veraval-26, Daman-22, Mandvi-21; **Odisha:** Ranital-27, Cuttack-23, Puri-21; **Maharashtra:** Nimgiri-29, Alibag-29, Mahabaleshwar-28, Karad, Parbhani & Vilholi-27 each, Sangli-26, Kalwan-26, Rahuri-25; Rajgurunagar-24; **Telangana:** Siddipet-28, Nizamabad-27, Ghatkesar-26, Daira-25; **Karnataka:** Gangavathi-26, Gadag-25, Hiriya-23, Davanagere-21; **Tamil Nadu:** Tiruttani-27, Thiruchendur-27, Sirugamani-25, Kadavur-24.
- ❖ **Minimum Temperature Departures (as on 05-07-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **above normal (1.6°C to 3.0°C)** at a few places over Konkan & Goa and Madhya Maharashtra, Kerala & Mahe; at isolated places over Punjab, Himachal Pradesh, West Rajasthan, East Madhya Pradesh, Gujarat state, Marathwada, Telangana, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Bihar, Sub-Himalayan West Bengal & Sikkim. These were **below normal (-1.6°C to -3.0°C)** at isolated places over East Rajasthan, Jharkhand, Assam & Meghalaya, Gangetic West Bengal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 21.2°C was reported at **Narsinghpur (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 05-07-2024):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Telangana; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Vidarbha, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Odisha. These were **markedly below normal (-5.1°C & below)** at isolated places over Uttarakhand, Uttar Pradesh, West Madhya Pradesh, East Rajasthan; **below normal (-1.6°C to -3.0°C)** at many places over Haryana-Chandigarh-Delhi, Sub-Himalayan West Bengal & Sikkim, Bihar, Gujarat Region, Arunachal Pradesh, Assam & Meghalaya; at a few places over Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura; at isolated places over Punjab, West Rajasthan, Saurashtra & Kutch and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature** of 40.8°C was reported at **Bikaner (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Monsoon trough at mean sea level now passes through Sri Ganganagar, Gwalior, Satna, Daltonganj, Jamshedpur, Digha and thence east-southeastwards to northeast Bay of Bengal.
- ❖ The cyclonic circulation over West Rajasthan & adjoining Pakistan at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over East Uttar Pradesh & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The trough from cyclonic circulation over West Rajasthan & adjoining Pakistan to Manipur across cyclonic circulation over East Uttar Pradesh, Jharkhand, West Bengal & Bangladesh at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over southwest Uttar Pradesh & neighbourhood extending upto 7.6 km above mean sea level tilting southwards with height persists.
- ❖ The trough from above cyclonic circulation over southwest Uttar Pradesh & neighbourhood to West Assam across Bihar, Sub-Himalayan West Bengal & Sikkim, North Bangladesh between 1.5 km & 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over south Gujarat & neighbourhood at 3.1 km above mean sea level persists.
- ❖ The off-shore trough at mean sea level along south Gujarat- Kerala coasts persists.
- ❖ The cyclonic circulation over Eastcentral Bay of Bengal at 5.8 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 13th 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, Northeast 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 13th-15th July, 2024)

- ❖ Fairly widespread to widespread rainfall likely over most parts of the country.

Table-1

7 Days Rainfall Forecast

S. No.	Subdivision	06-Jul	07-Jul	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	FWS	FWS	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	WS	WS	WS	WS	WS	WS	WS
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	WS	WS	WS	WS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	WS	FWS	FWS	FWS	FWS	FWS	FWS
7	ODISHA	FWS	WS	WS	FWS	FWS	FWS	FWS
8	JHARKHAND	WS	FWS	SCT	SCT	FWS	FWS	FWS
9	BIHAR	WS	FWS	FWS	FWS	WS	FWS	FWS
10	EAST UTTAR PRADESH	WS	WS	FWS	FWS	WS	WS	WS
11	WEST UTTAR PRADESH	WS	FWS	FWS	FWS	FWS	FWS	FWS
12	UTTARAKHAND	WS	WS	FWS	FWS	FWS	FWS	FWS
13	HARYANA CHANDIGARH & DELHI	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	WS	FWS	SCT	SCT	FWS	FWS	FWS
16	JAMMU & KASHMIR AND LADAKH	WS	SCT	ISOL	ISOL	SCT	SCT	SCT
17	WEST RAJASTHAN	SCT	ISOL	ISOL	SCT	SCT	SCT	SCT
18	EAST RAJASTHAN	FWS	SCT	SCT	FWS	FWS	FWS	FWS
19	WEST MADHYA PRADESH	WS	FWS	FWS	WS	WS	WS	WS
20	EAST MADHYA PRADESH	WS	WS	WS	WS	WS	WS	WS
21	GUJARAT REGION	SCT	SCT	SCT	SCT	SCT	SCT	SCT
22	SAURASHTRA & KUTCH	FWS	SCT	SCT	SCT	FWS	FWS	FWS
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	FWS	FWS	FWS	SCT	SCT	SCT
25	MARATHAWADA	SCT	FWS	FWS	FWS	SCT	SCT	SCT
26	VIDARBHA	WS	WS	WS	WS	WS	FWS	FWS
27	CHHATTISGARH	FWS	WS	WS	WS	FWS	FWS	FWS
28	COASTAL ANDHRA PRADESH & YANAM	SCT	FWS	FWS	FWS	SCT	SCT	SCT
29	TELANGANA	ISOL	SCT	FWS	FWS	SCT	ISOL	ISOL
30	RAYALASEEMA	ISOL	SCT	SCT	SCT	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	SCT	SCT	SCT	FWS	FWS	FWS	FWS
34	SOUTH INTERIOR KARNATAKA	SCT	FWS	FWS	FWS	FWS	FWS	FWS
35	KERALA & MAHE	WS	WS	WS	WS	FWS	FWS	FWS
36	LAKSHADWEEP	WS	WS	WS	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

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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

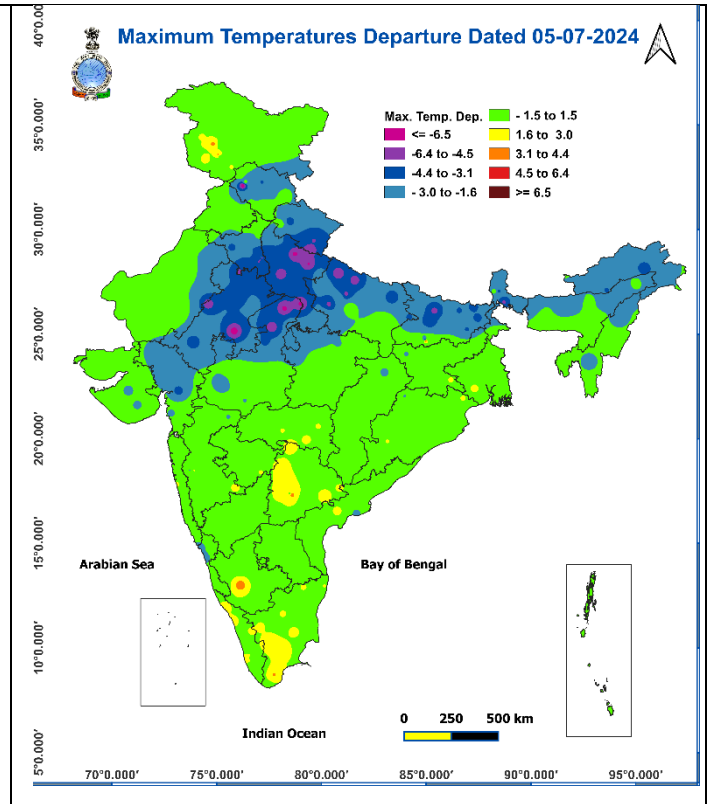
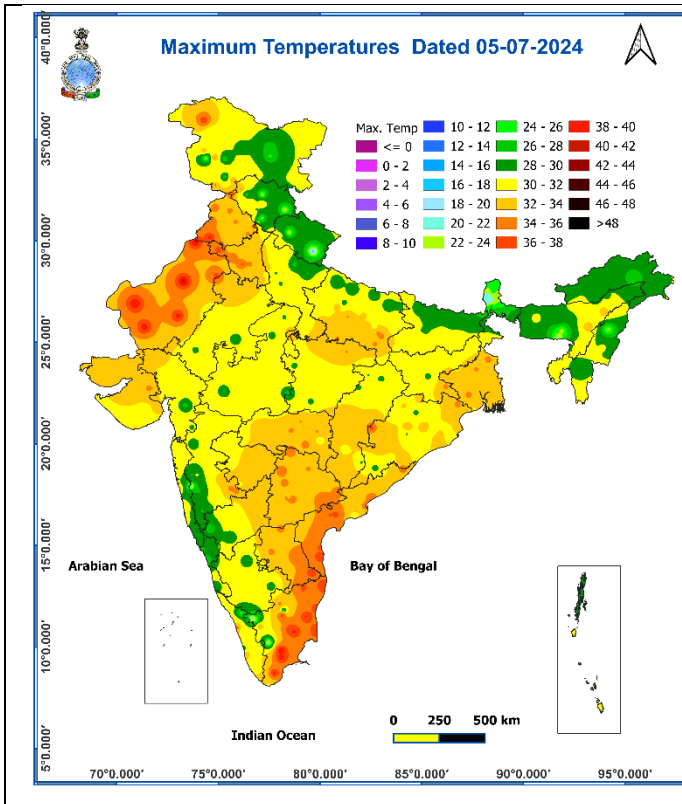


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

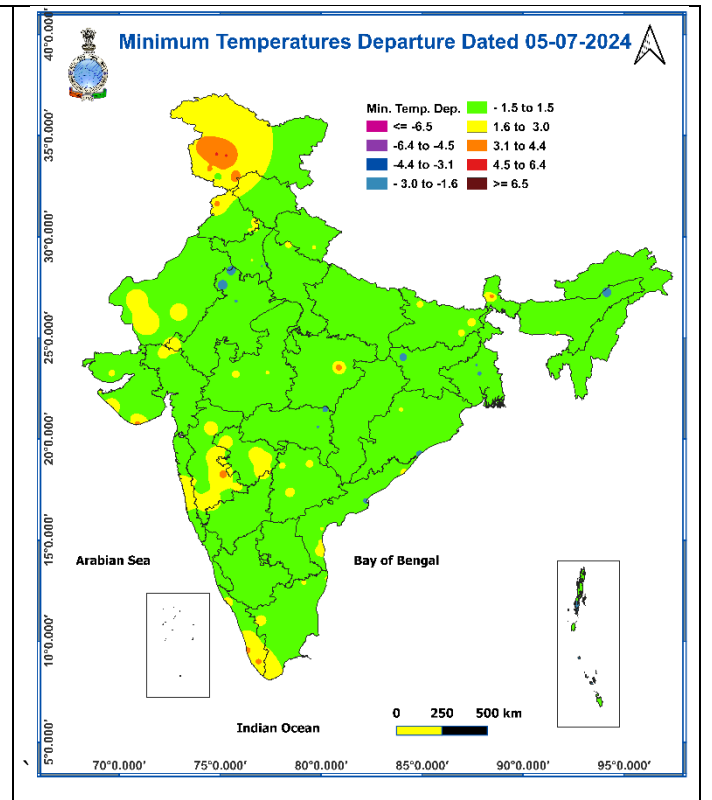
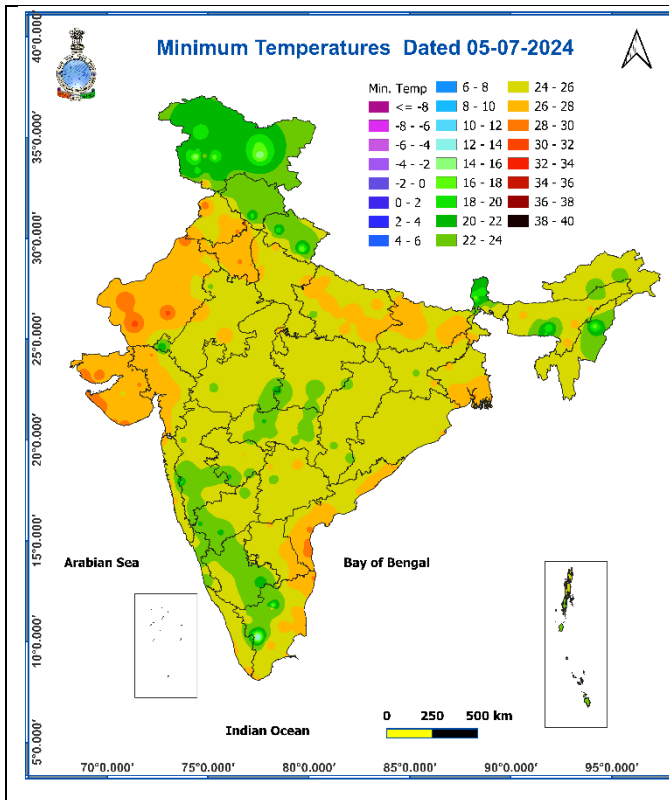
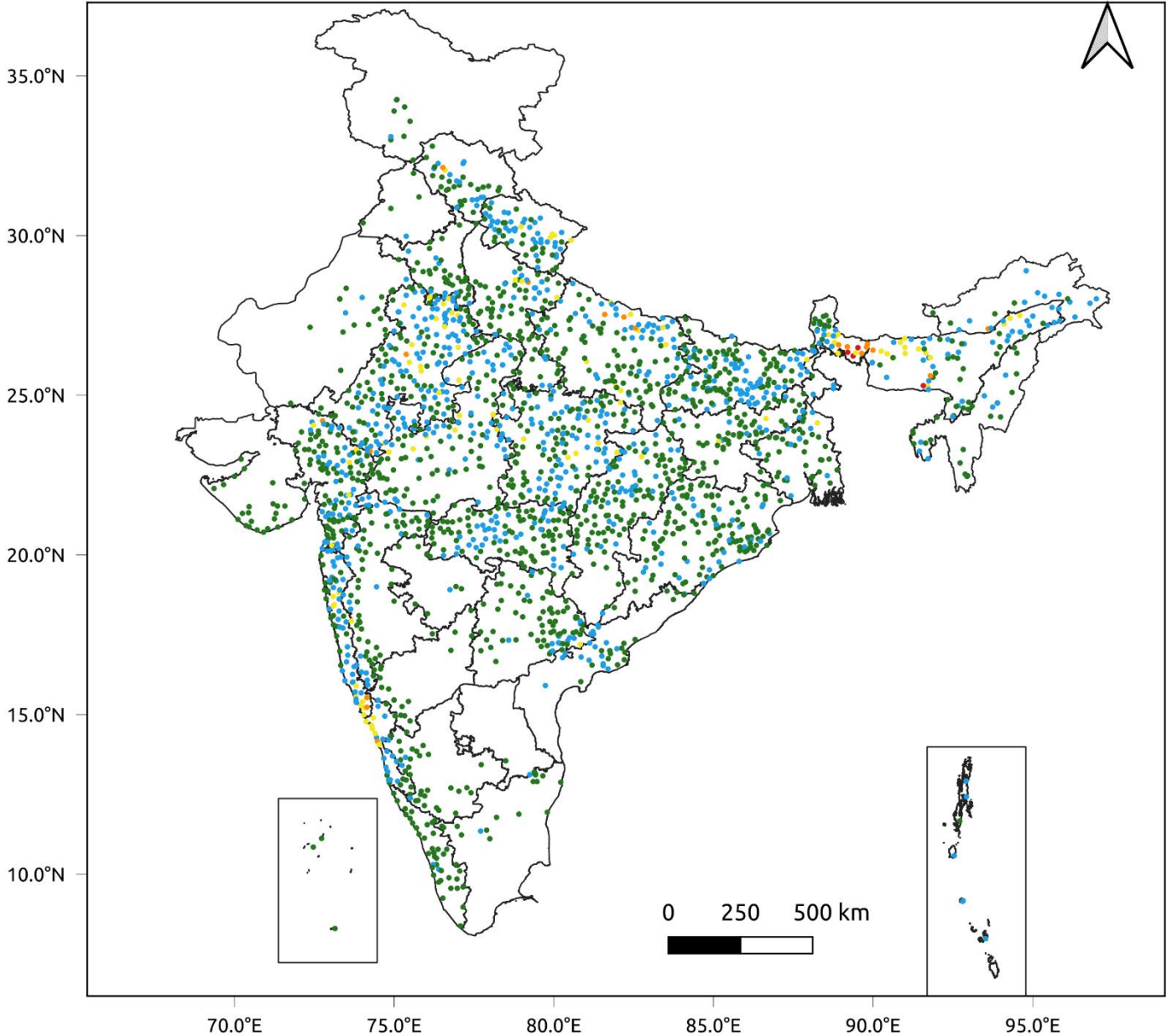


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



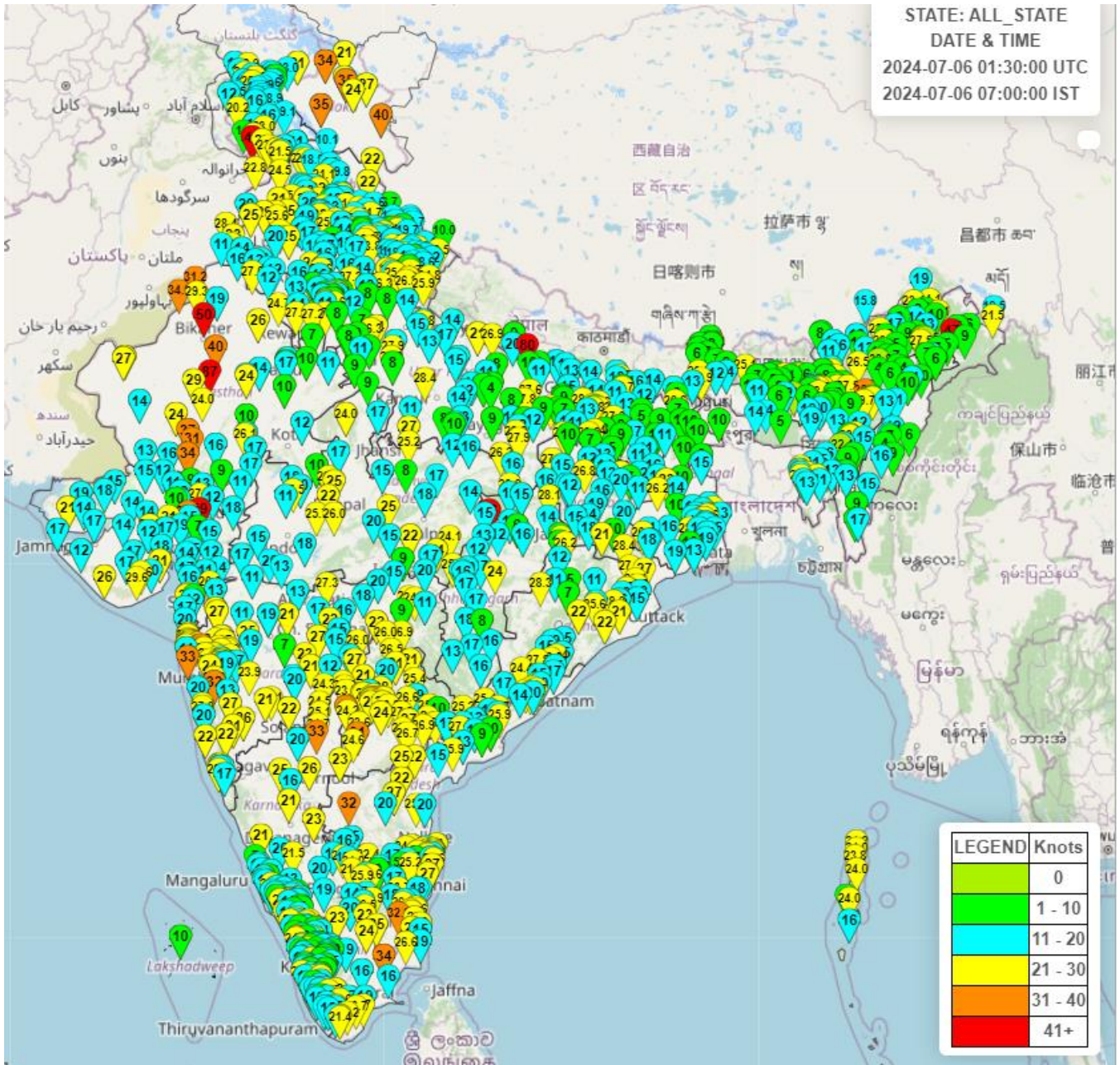
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 4-7-2024 to 0830 IST of 5-7-2024



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)

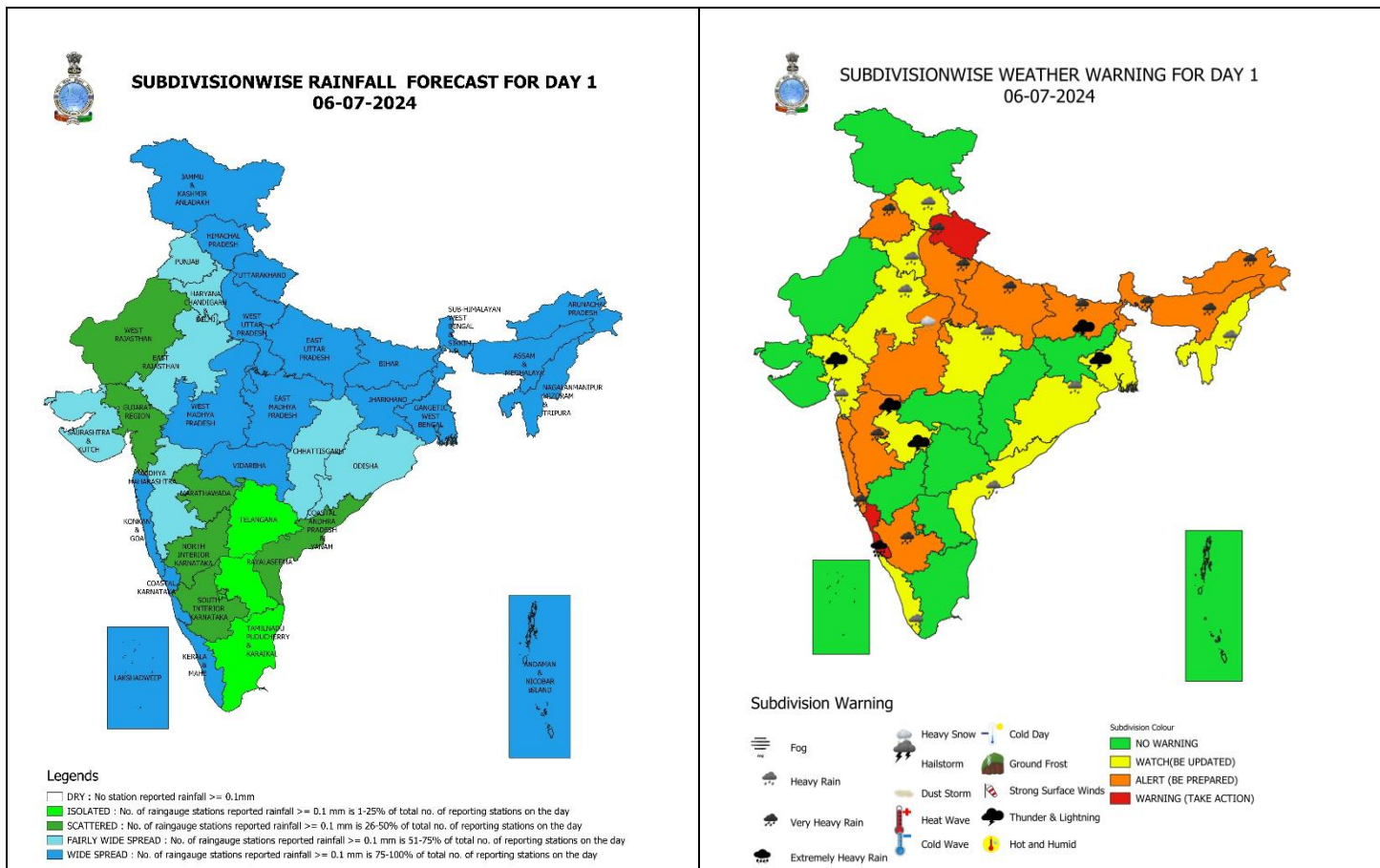
Fig. 6: Gusty winds reported over the country (in knots) from 0830 hours IST of 05.07.2024 to 0700 hours IST of 06.07.2024



1 Knot = 1.852 kmph

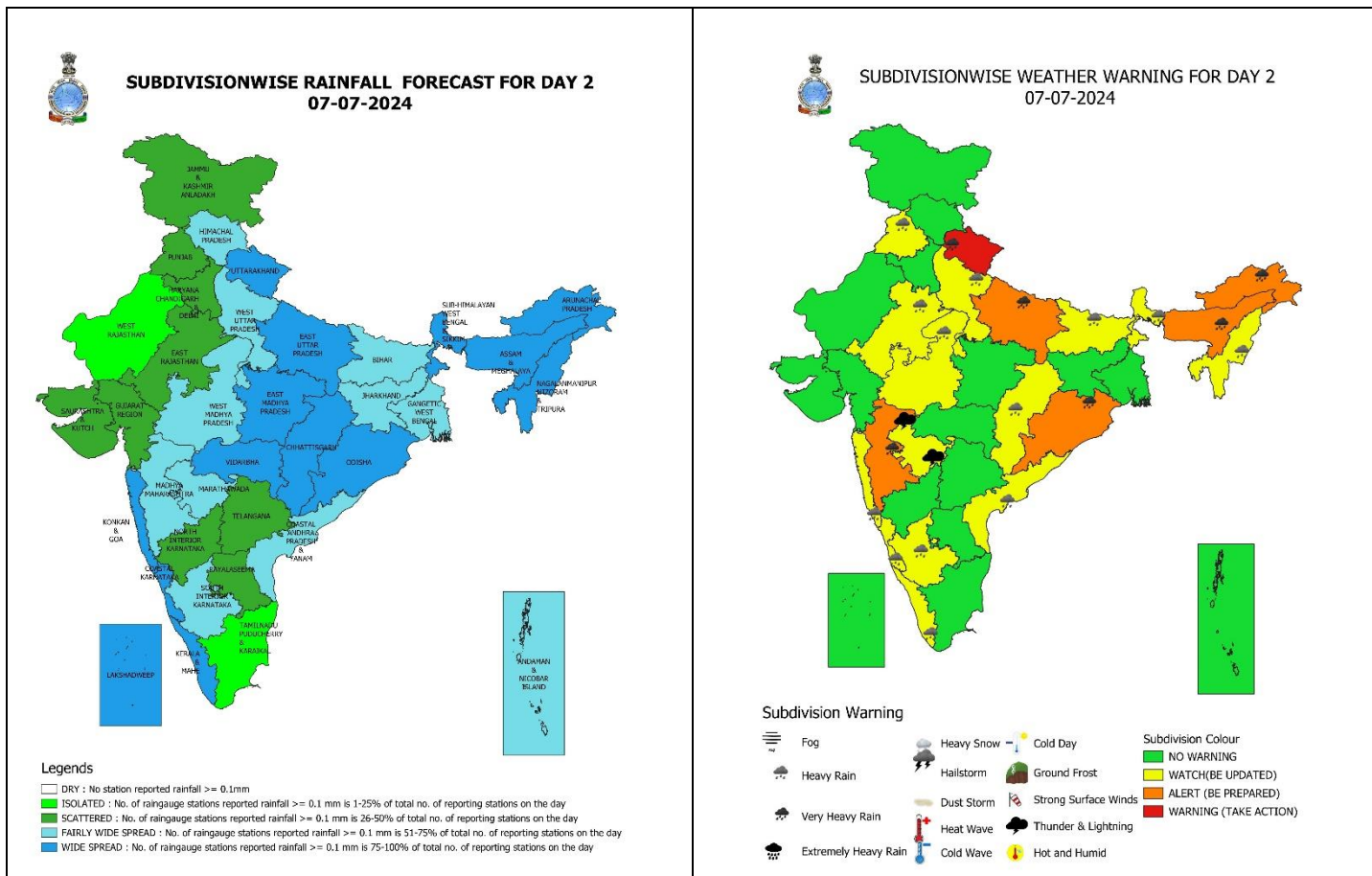
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06 July (Day 1):

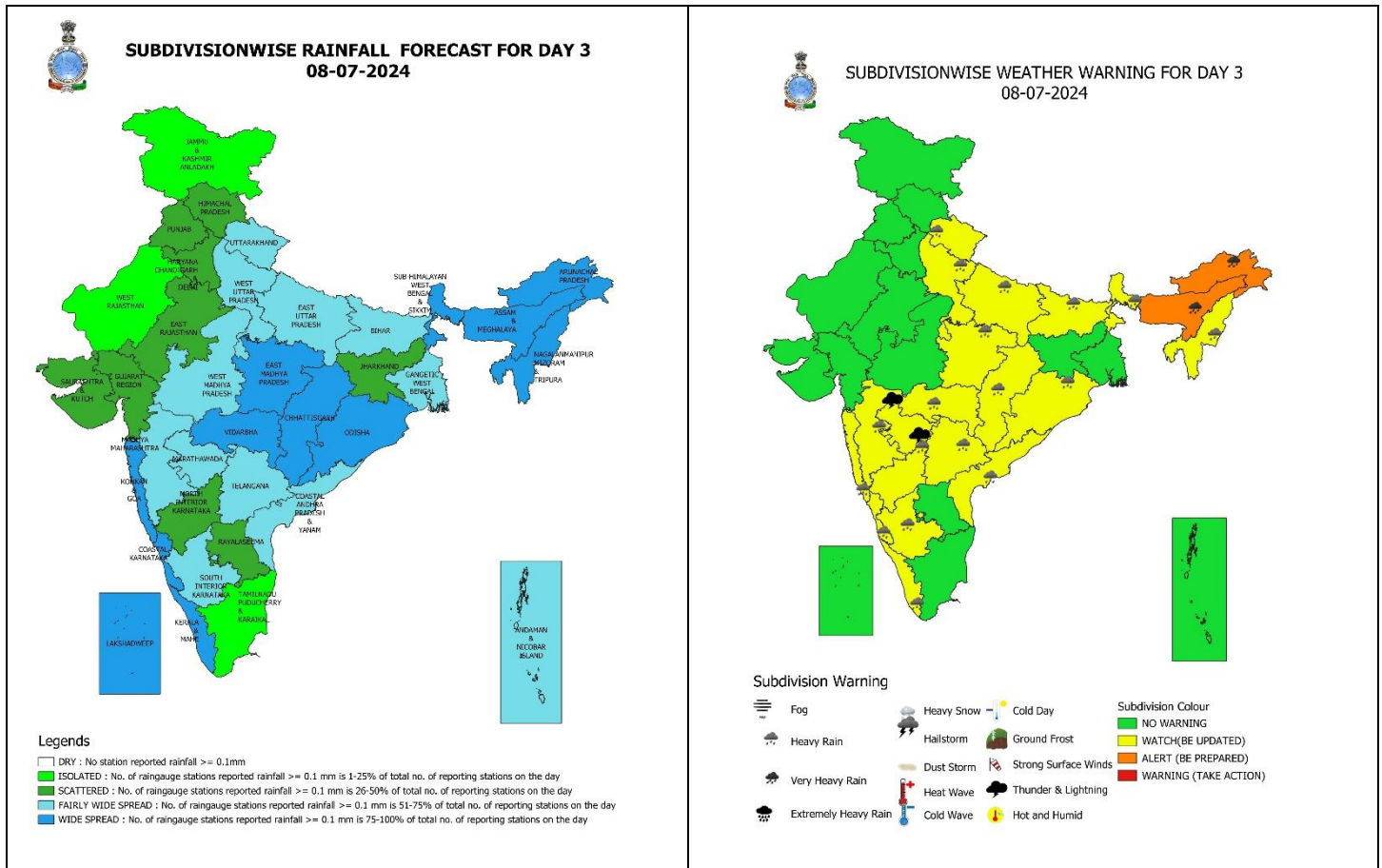
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Coastal Karnataka; **Heavy to very heavy rainfall** at isolated places over Uttarakhand, Punjab, Uttar Pradesh, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam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



07 July (Day 2):

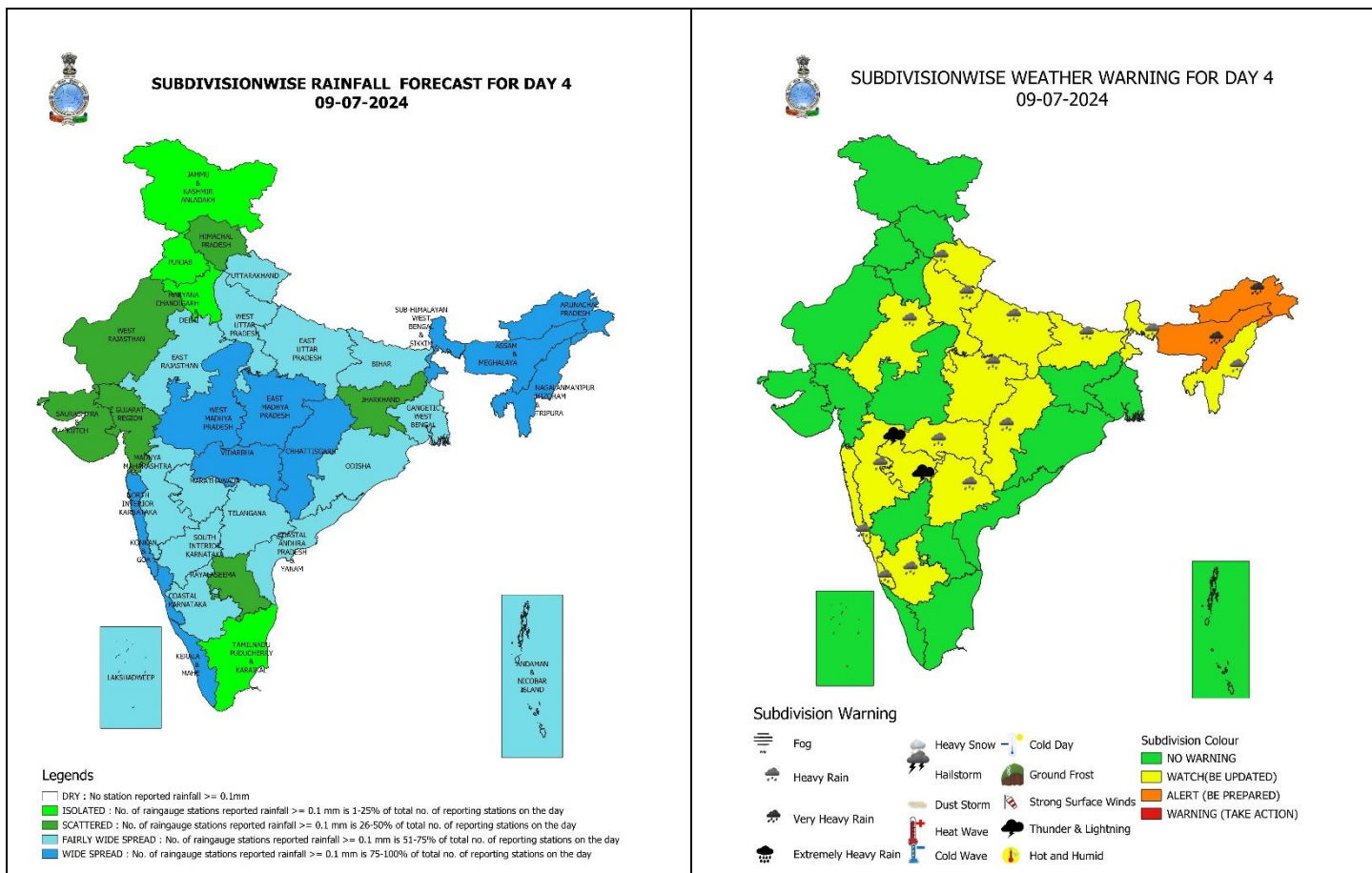
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Uttarakhand, East Uttar Pradesh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra; **Heavy rainfall** at isolated places over Punjab, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Chhattisgarh, Sub-Himalayan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

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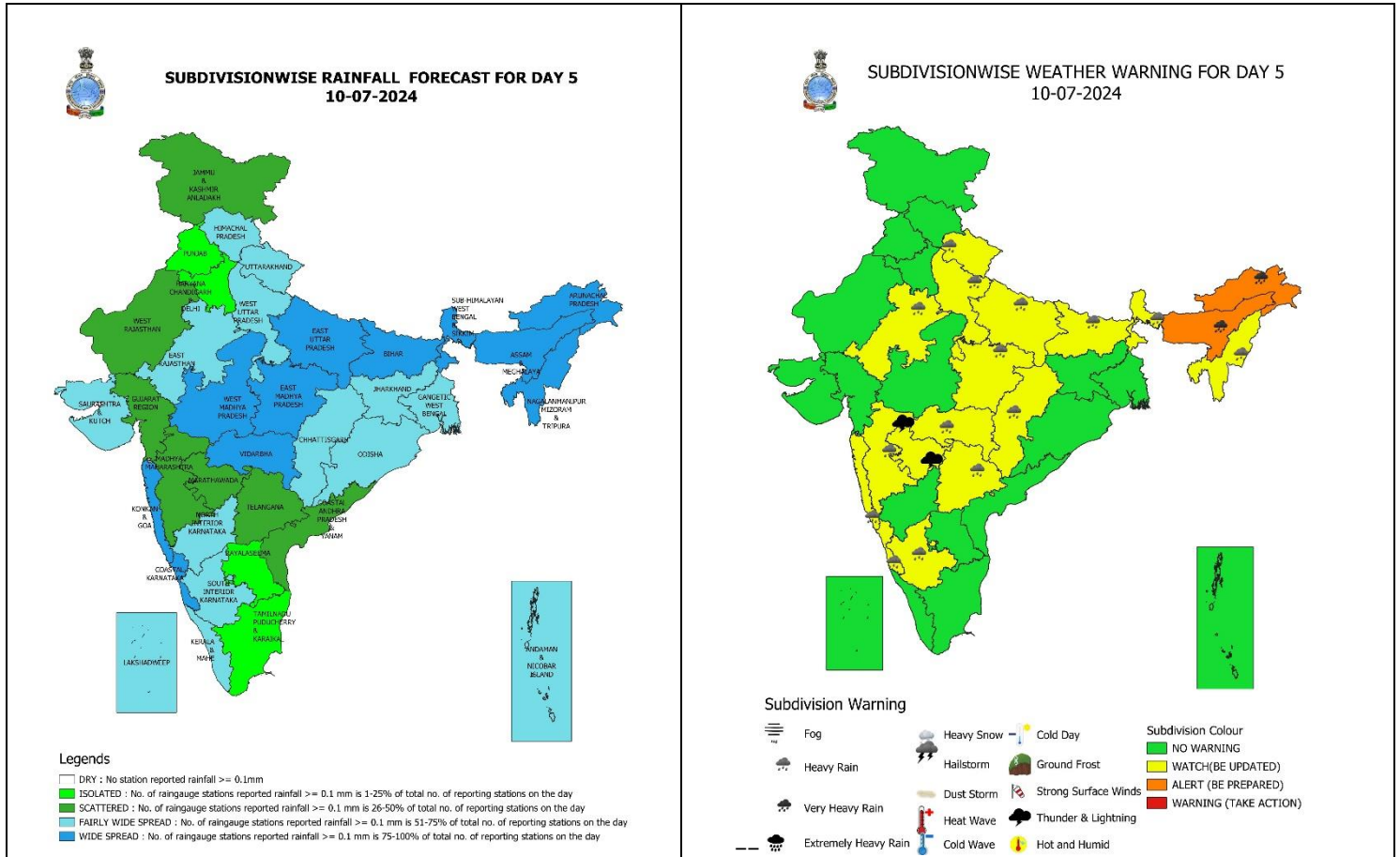
08 July (Day 3):

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



09 July (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya; **Heavy rainfall** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Telangana, Coastal & South Interior 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 & southwest Arabian sea, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central Bay of Bengal and southern parts of northwest Bay of Bengal; **squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail along and off Somalia coast & adjoining and northern parts of southwest Arabian sea, over westcentral Arabian sea, along and off Yemen and south Oman coasts. Fishermen are advised not to venture into these areas.

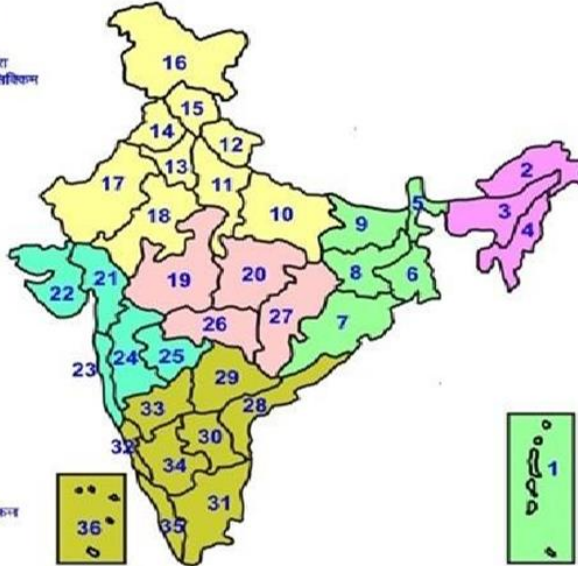


10 July (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya; **Heavy rainfall** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Telangana, Coastal & South Interior 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 & southwest Arabian sea, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central Bay of Bengal and southern parts of northwest Bay of Bengal; **squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** to prevail along and off Somalia coast & adjoining and northern parts of southwest Arabian sea, over westcentral Arabian sea, along and off Yemen and south 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 मनीपुर 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 कर्नाटक
- 24 कोकण एवं गोवा
- 25 मराठवाड़ा
- 26 महाराष्ट्र
- 27 मध्य प्रदेश
- 28 मध्य प्रदेश
- 29 मध्य प्रदेश
- 30 मध्य प्रदेश
- 31 मध्य प्रदेश
- 32 मध्य प्रदेश
- 33 मध्य प्रदेश
- 34 मध्य प्रदेश
- 35 मध्य प्रदेश
- 36 मध्य प्रदेश



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnada, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Rain/ Snow *

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *



Heat Wave

When maximum temperature of a station reaches $\geq 40^\circ\text{C}$ for plains and $\geq 30^\circ\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^\circ\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^\circ\text{C}$.
Severe Heat Wave: When actual maximum temperature $\geq 47^\circ\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^\circ\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ\text{C}$



Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .
Severe Warm Night: When minimum temperature departure $> 6.4^\circ\text{C}$.



Cold Wave

When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^\circ\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^\circ\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^\circ\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^\circ\text{C}$ & actual Minimum Temperature is $\leq 15^\circ\text{C}$



Cold Day

When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^\circ\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres
Dense Fog: when the visibility between 50- 200 metres
Very Dense Fog: when the visibility < 50 metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature $\leq 4^\circ\text{C}$ (over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph
Severe: Wind speed 62-87 kmph
Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

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

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

(Service to the Nation since 1875)