

Tuesday, July 2, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Advance of Southwest Monsoon:

- ❖ Northern Limit of Monsoon continues to pass through 26°N/65°E, Jaisalmer, Sirsa, Kurukshetra, Rajpura, Ludhiana and 31.2°N/74.5°E.
- ❖ Conditions are favourable for further advance of southwest Monsoon into remaining parts of Rajasthan, Haryana & Punjab during next 2-3 days.

Weather Systems and Forecast & Warnings:

- ❖ A trough runs from Punjab to Mizoram in lower tropospheric levels. Under its influence;
 - Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning very likely over Northwest and Central India during next 5 days.
 - Isolated **heavy rainfall** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 2nd; Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Rajasthan, West Madhya Pradesh during 02nd -05th; West Rajasthan on 05th; East Madhya Pradesh on 03rd & 04th July and Chhattisgarh on 02nd & 03rd July.
 - **Isolated very heavy rainfall likely over Himachal Pradesh on 02nd July; Uttarakhand, Punjab, Haryana & Uttar Pradesh on 02nd & 03rd July; East Rajasthan during 03rd-05th July.**
 - **Isolated extremely heavy rainfall very likely over Uttarakhand on 02nd July.**
- ❖ A cyclonic circulation lies over Sub-Himalayan West Bengal and another over northeast Assam in lower tropospheric levels. Under their influence;
 - Widespread light to moderate rainfall accompanied with thunderstorm, lightning **with heavy to very heavy rainfall** very likely over Northeast India, Sub-Himalayan West Bengal & Sikkim and scattered to fairly widespread rainfall over East India during next 5 days.
 - Isolated **heavy rainfall** very likely over Bihar during 02nd -05th; Gangetic West Bengal on 04th & 05th and Jharkhand on 02nd & 03rd July.
 - **Isolated very heavy rainfall likely over Bihar and Sub-Himalayan West Bengal & Sikkim on 02nd July.**
 - **Isolated extremely heavy rainfall very likely over Arunachal Pradesh on 04th & 05th and Assam & Meghalaya on 02nd July.**
- ❖ A cyclonic circulation lies over north Gujarat & neighbourhood in lower tropospheric levels. The off-shore trough at mean sea level along Maharashtra- Kerala coasts. Under their influence:
 - 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, Coastal Andhra Pradesh & Yanam; isolated to scattered light to moderate rainfall over Marathwada, Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Telangana, Interior Karnataka during next 5 days.
 - Isolated **heavy rainfall** very likely over Gujarat state, Konkan & Goa during 02nd-05th July; ghat areas of Madhya Maharashtra on 02nd July; Coastal Karnataka, Kerala & Mahe on 02nd & 03rd July and South Interior Karnataka during 03rd-05th July.
 - **Isolated very heavy rainfall very likely over Saurashtra & Kutch on 02nd; Gujarat Region on 02nd, 03rd & 05th July.**

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places over** Saurashtra & Kutch and Kerala & Mahe; **at many places over** Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Pradesh, Odisha and Konkan & Goa; **at a few places over** Sub-Himalayan West Bengal & Sikkim, East Uttar Pradesh, Madhya Maharashtra, Coastal Karnataka, Chhattisgarh and **at isolated places over** Gangetic West Bengal, Bihar, West Uttar Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Jharkhand, Interior Karnataka and Coastal Andhra Pradesh & Yanam.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall occurred** at isolated places over Saurashtra & Kutch.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Assam & Meghalaya:** Jorhat-5, Lumding, Haflong, Cherrapunji & Goalpara-4 each, Golaghat & Silchar-3 each, Shillong-2, Majbat, North Lakhimpur & Guwahati-1 each; **Nagaland, Manipur, Mizoram & Tripura:** Kohima-3, Agartala & Kailashahar-2 each; **Arunachal Pradesh:** Itanagar-3, Pasighat-1; **East Madhya Pradesh:** Mandla-5, Sidhi-4; **West Madhya Pradesh:** Raisen-4, Pachmarhi & Dhar-2 each, Hoshangabad-1; **Gujarat Region:** Ahmedabad-3, Daman-2, Surat-1; **Saurashtra & Kutch:** Okha-11, Keshod-10, Dwarka-10, Mahuva-7, Amreli-2; **Konkan & Goa:** Matheran-2, Ratnagiri-1; **Kerala:** Kannur-4, Thrissur-2, Kochi-1; **Coastal Karnataka:** Mangalore-1; **South Interior Karnataka:** Chitradurga-1; **Odisha:** Jagatsinghpur-2, Bhubaneswar, Paradip & Sambalpur-1 each; **Madhya Maharashtra:** Mahabaleshwar-1.
- ❖ **Reported maximum wind speed (in knot)** (from 0830 hours IST to 1730 hours IST of yesterday): **Madhya Pradesh:** Shajapur-30, Sehore-25, Agar-23; **Rajasthan:** Lunkaransar-32, Sirohi-21; **Gujarat:** Dwarka-35, Veraval-34, Maktampur-33, Kutch_Mandvi-27; **Himachal Pradesh:** Kinnaur-32, Bajaura-22; **Telangana:** Tandur-23, Hyderabad-21; **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:** Yokma-33, Nyoma-31, Durbuk-29, Padum-27; **Odisha:** Jagatsinghpur-24, Kendrapara-22, Cuttack-21; **Tamil Nadu:** Tirunelveli, Tenkasi and Tiruppur-23 each; **Maharashtra:** Mahabaleshwar, Alibag and Rahuri-31 each, Jalna and Kalwan-29 each; **Haryana:** Sirsa-26, Mahendragarh-23; **Andhra Pradesh:** Kadapa-24, Peddapuram-22; **Kerala:** Kalamassery-26, Padinjaraathara-25; **Punjab:** Budhsinghwal-26.
- ❖ **Minimum Temperature Departures (as on 01-07-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan; **above normal (1.6°C to 3.0°C)** at a few places over Andaman & Nicobar Islands, Bihar, Punjab; at isolated places over Odisha, Konkan & Goa. These were **below normal (-1.6°C to -3.0°C)** at a few places over Coastal Andhra Pradesh & Yanam, Telangana; at isolated places over Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal, Madhya Pradesh, Assam & Meghalaya, Gujarat state and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 21.0°C** was reported at **Bulandshahr (West Uttar Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 01-07-2024):** Maximum 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 Himachal Pradesh; at isolated places over Coastal Karnataka. These were **markedly below normal (-5.1°C & below)** at a few places over Arunachal Pradesh and Assam & Meghalaya; at isolated places over East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Saurashtra & Kutch and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at most places over Gujarat Region, West Madhya Pradesh; at many places over East Rajasthan, Chhattisgarh, Kerala & Mahe; at a few places over Vidarbha, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, East Uttar Pradesh; at isolated places over West Rajasthan, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Odisha, Jharkhand and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature of 42.4°C** was reported at **Ganganagar (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ Northern Limit of Monsoon continues to pass through 26°N/65°E, Jaisalmer, Sirsa, Kurukshetra, Rajpura, Ludhiana and 31.2°N/74.5°E.
- ❖ Conditions are favourable for further advance of southwest Monsoon into remaining parts of Rajasthan, Haryana & Punjab during next 2-3 days.
- ❖ The cyclonic circulation over central Pakistan & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Sub-Himalayan West Bengal & neighbourhood persists and now extends upto 1.5 km above mean sea level.
- ❖ The trough from north Punjab to Mizoram across north Haryana, north Uttar Pradesh, north Bihar, cyclonic circulation over Sub-Himalayan West Bengal and Assam at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over north Gujarat & neighbourhood at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over south Gujarat & neighbourhood between 3.1 & 7.6 km above mean sea level tilting southwestwards with height persists.
- ❖ The trough from above cyclonic circulation over south Gujarat to central Madhya Pradesh at 5.8 km above mean sea level persists.
- ❖ The off-shore trough at mean sea level along Maharashtra-Kerala coasts persists.
- ❖ The cyclonic circulation over north Haryana & neighbourhood at 1.5 km above mean sea level has become less marked.

Weather Forecast for next 7 days (Upto 0830 hours IST of 09th 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 South Peninsular India during next 5 days.
- ❖ No significant change in maximum temperatures very likely over most parts of the country.

Weather Outlook for subsequent 3 days (During 09th-11th July, 2024)

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

Table-1

7 Days Rainfall Forecast

S. No.	Subdivision	02-Jul	03-Jul	04-Jul	05-Jul	06-Jul	07-Jul	08-Jul
		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	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	FWS	WS	WS	WS	FWS	FWS	FWS
7	ODISHA	SCT	SCT	FWS	FWS	FWS	FWS	FWS
8	JHARKHAND	WS	WS	ISOL	FWS	FWS	FWS	FWS
9	BIHAR	WS	FWS	FWS	FWS	FWS	FWS	FWS
10	EAST UTTAR PRADESH	WS	WS	WS	WS	FWS	FWS	FWS
11	WEST UTTAR PRADESH	WS	WS	WS	FWS	FWS	SCT	SCT
12	UTTARAKHAND	WS	WS	WS	WS	WS	WS	WS
13	HARYANA CHANDIGARH & DELHI	WS	WS	FWS	FWS	FWS	FWS	FWS
14	PUNJAB	FWS	WS	FWS	FWS	FWS	SCT	SCT
15	HIMACHAL PRADESH	FWS	FWS	FWS	WS	WS	FWS	FWS
16	JAMMU & KASHMIR AND LADAKH	FWS	WS	WS	WS	WS	WS	WS
17	WEST RAJASTHAN	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
18	EAST RAJASTHAN	SCT	FWS	WS	WS	FWS	FWS	FWS
19	WEST MADHYA PRADESH	FWS	FWS	FWS	FWS	FWS	FWS	FWS
20	EAST MADHYA PRADESH	FWS	WS	WS	FWS	FWS	FWS	FWS
21	GUJARAT REGION	WS	WS	WS	WS	WS	WS	WS
22	SAURASHTRA & KUTCH	WS	WS	WS	WS	FWS	FWS	FWS
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	SCT	SCT	FWS	FWS	FWS	FWS
25	MARATHAWADA	SCT	SCT	SCT	SCT	SCT	SCT	SCT
26	VIDARBHA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
27	CHHATTISGARH	FWS	FWS	FWS	FWS	FWS	FWS	FWS
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
29	TELANGANA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
30	RAYALASEEMA	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	ISOL	SCT	SCT	FWS	WS	WS	WS
34	SOUTH INTERIOR KARNATAKA	ISOL	SCT	SCT	FWS	FWS	FWS	FWS
35	KERALA & MAHE	FWS	FWS	FWS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	WS	WS	WS	WS	FWS	FWS	FWS

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

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

Fig. 2: Departure of Maximum Temperatures

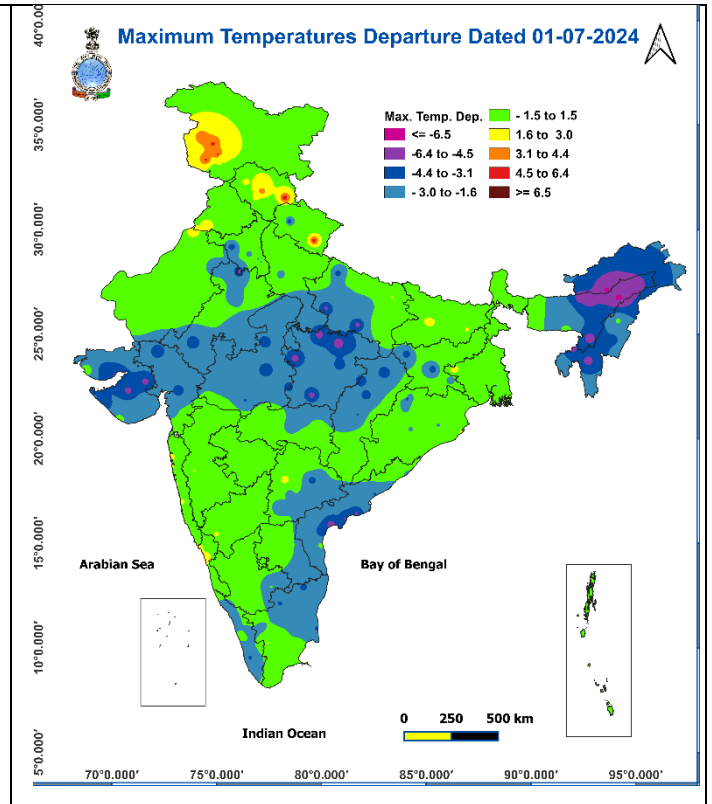
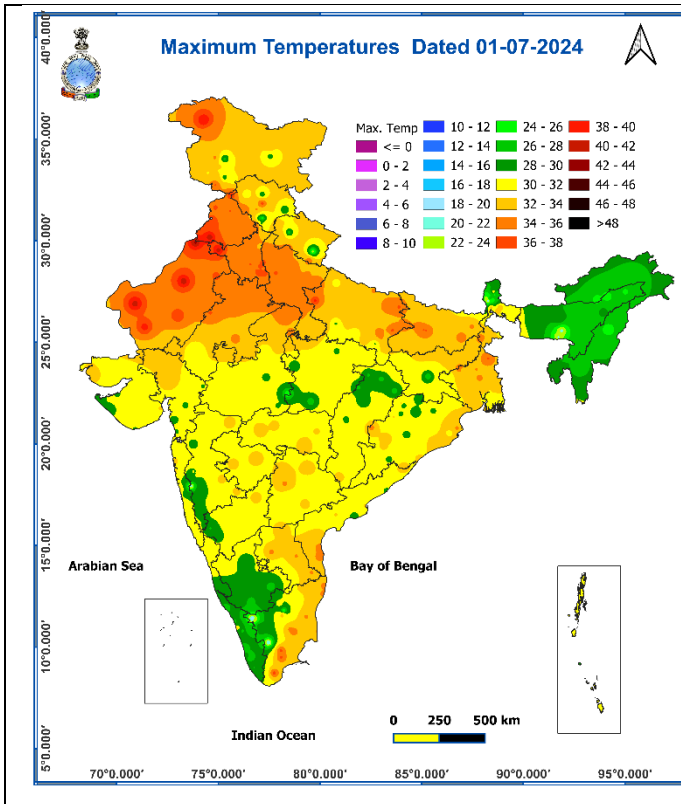


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

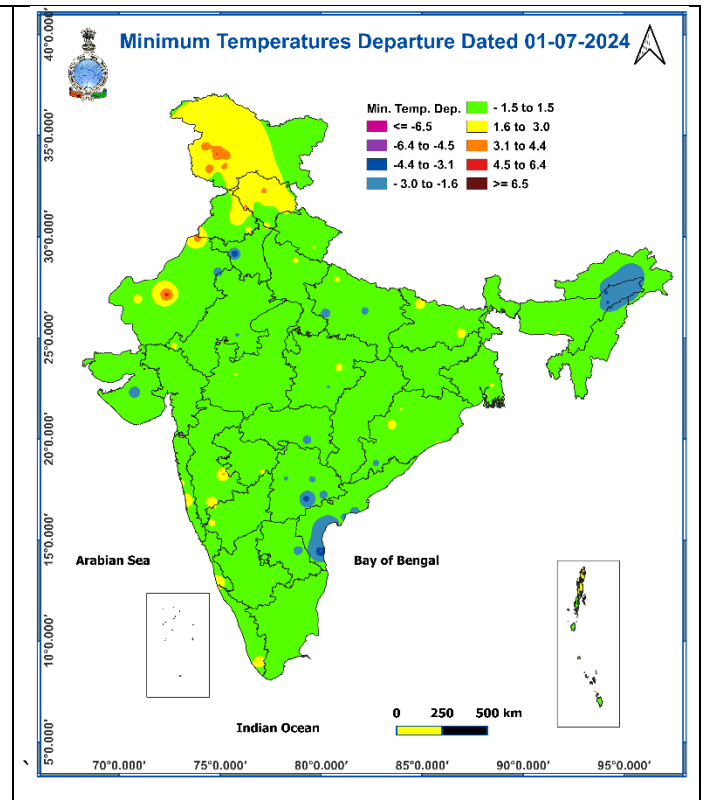
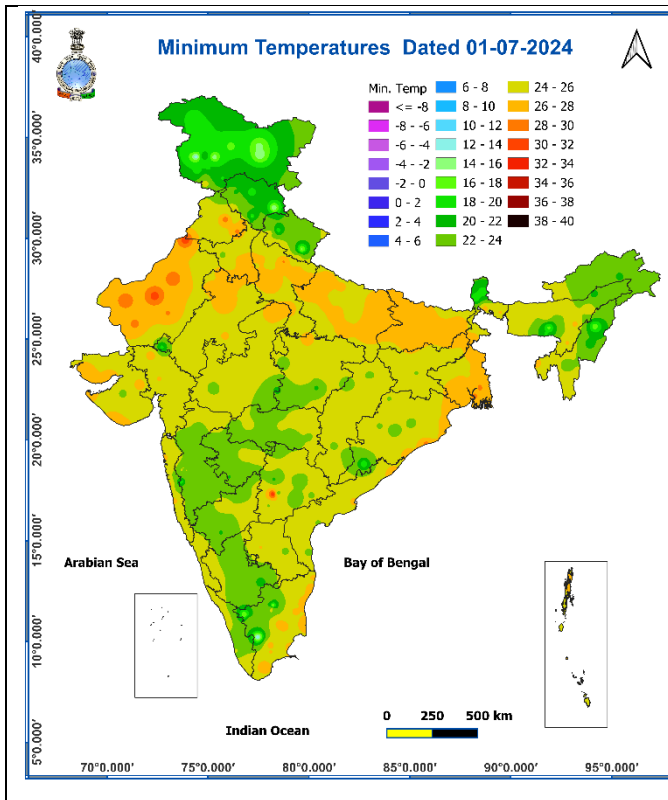
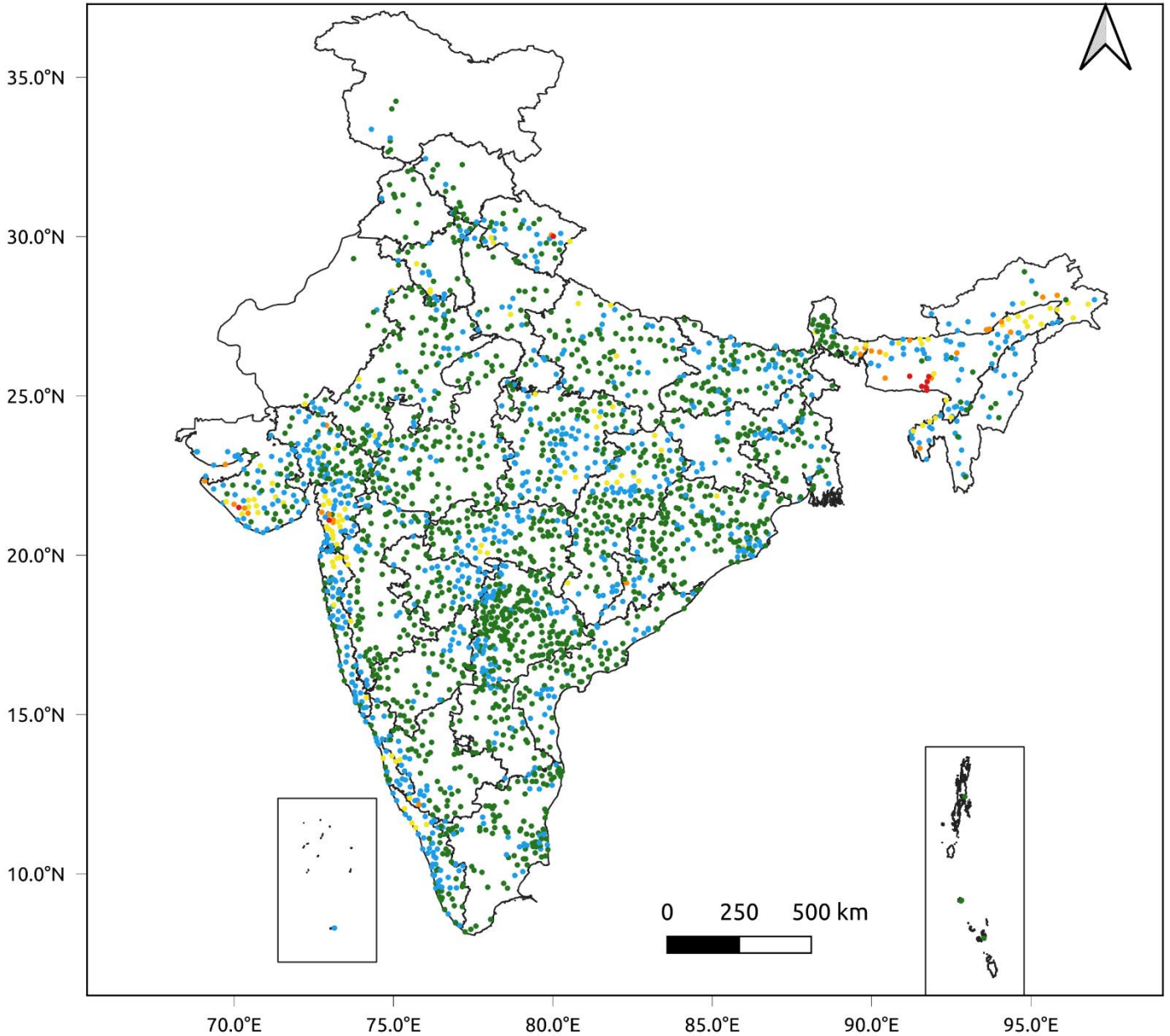


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



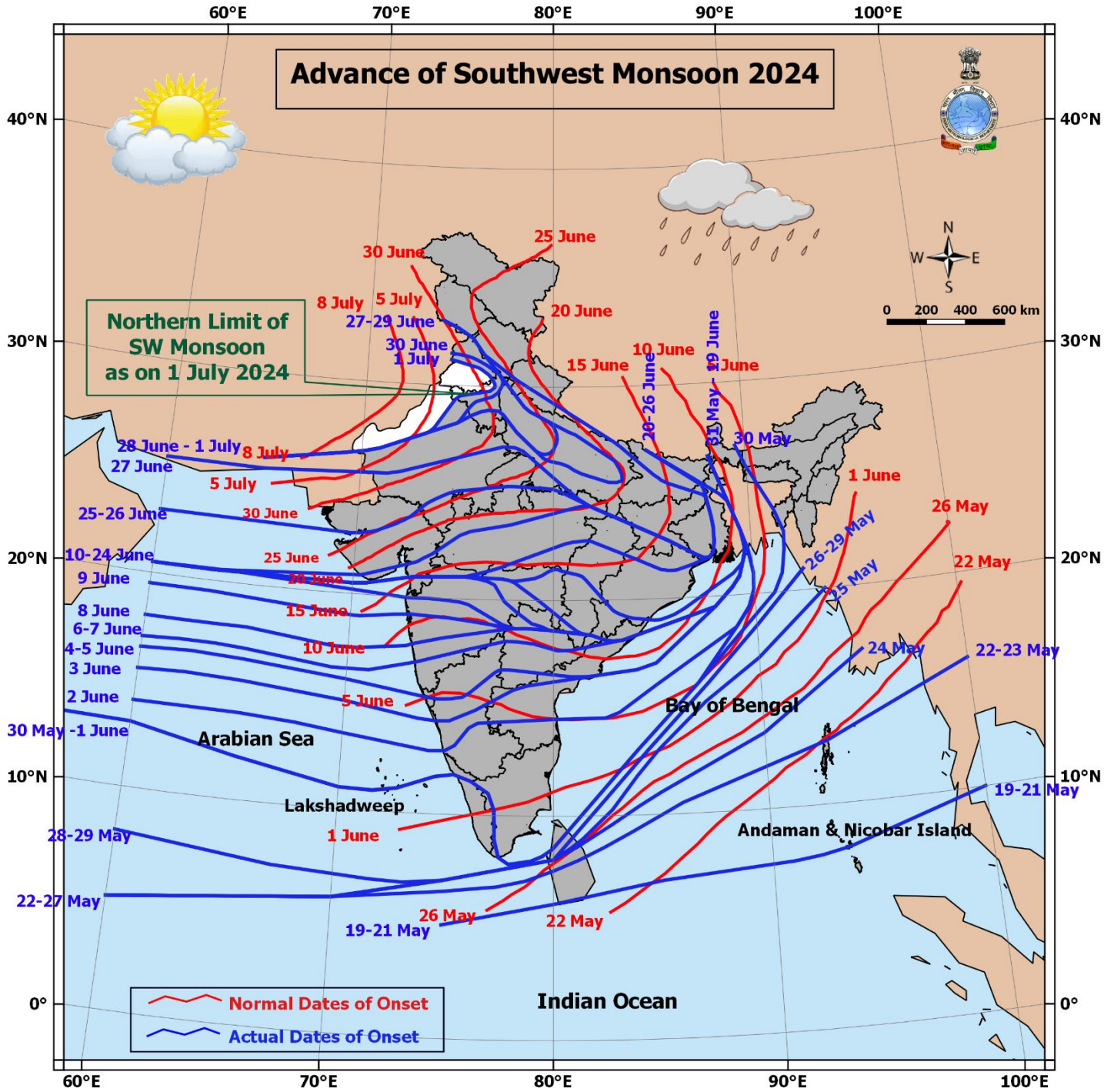
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 30-6-2024 to 0830 IST of 1-7-2024



Legends

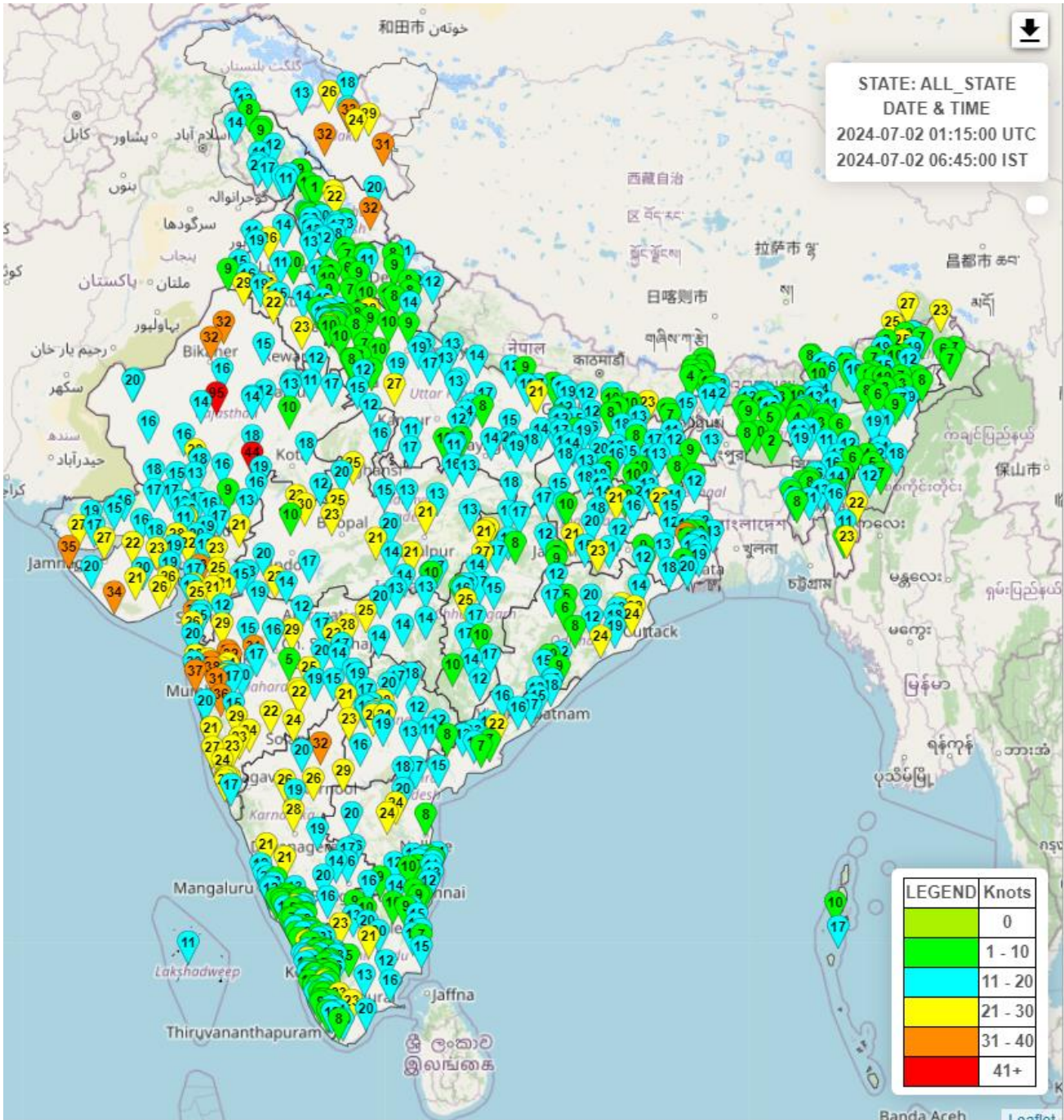
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

Fig. 6: Advance of Southwest Monsoon 2024



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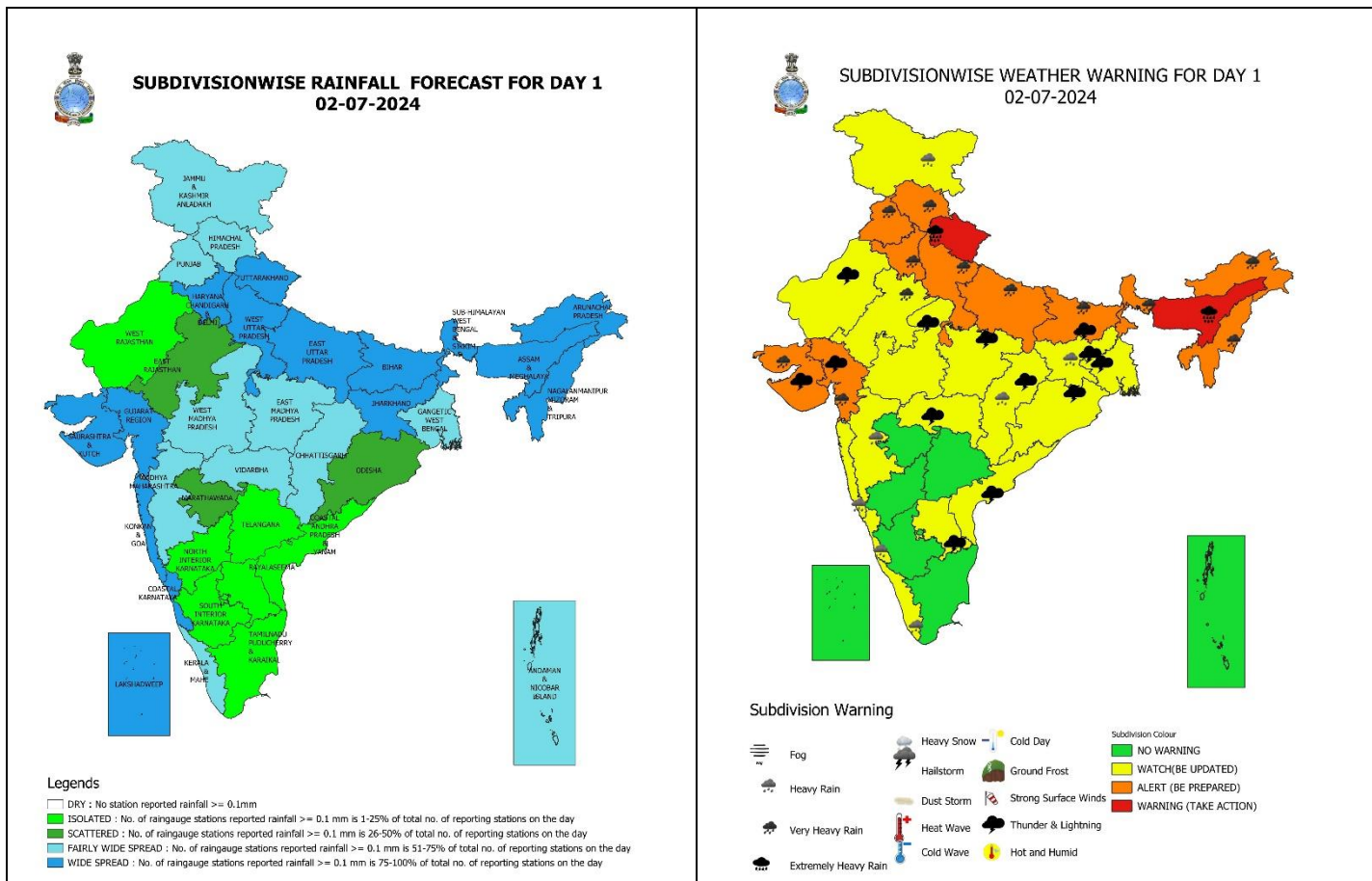
Fig. 7: Gusty winds reported over the country (in knots) from 0830 hours IST of 01.07.2024 to 0645 hours IST of 02.07.2024



1 Knot = 1.852 kmph

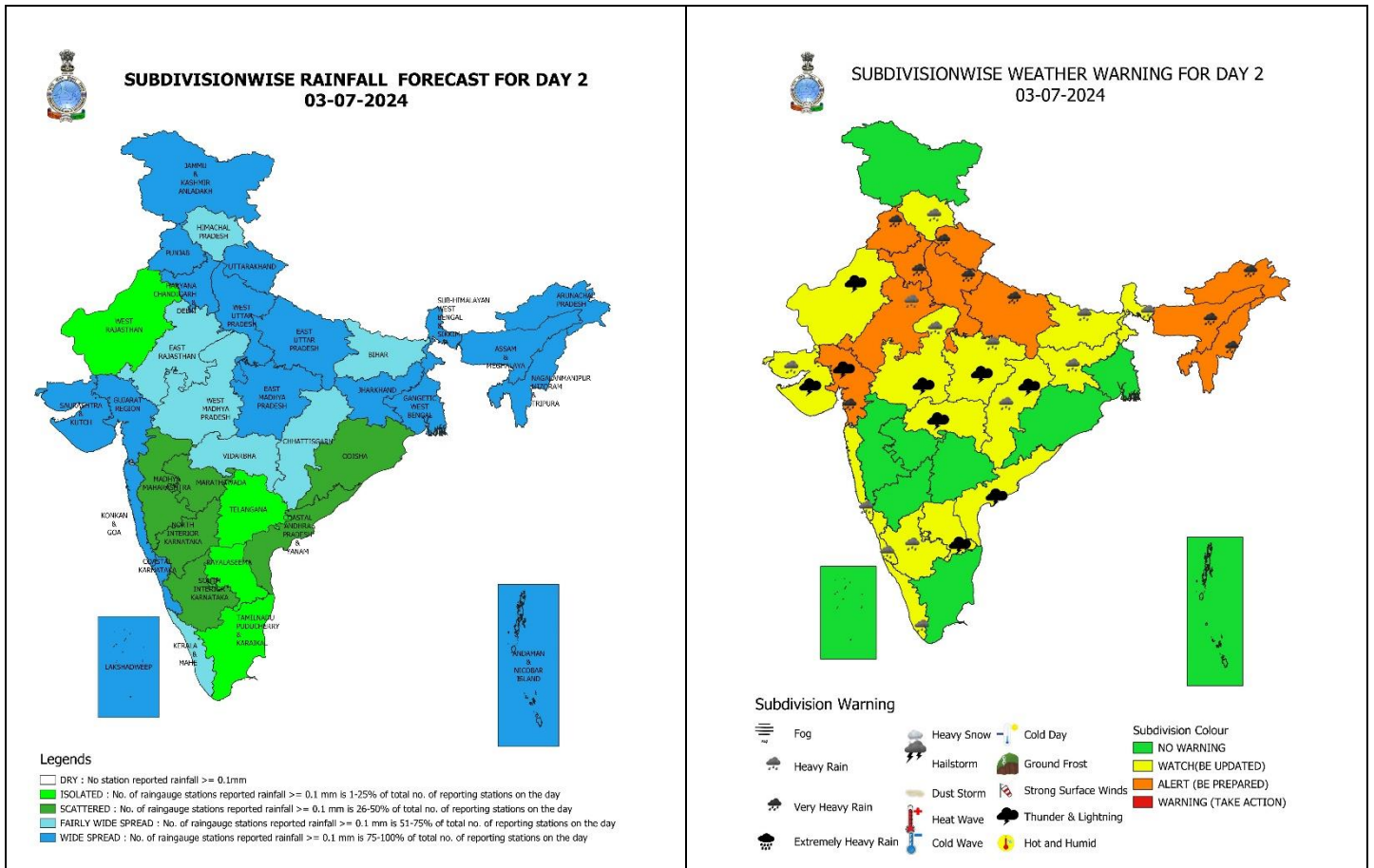
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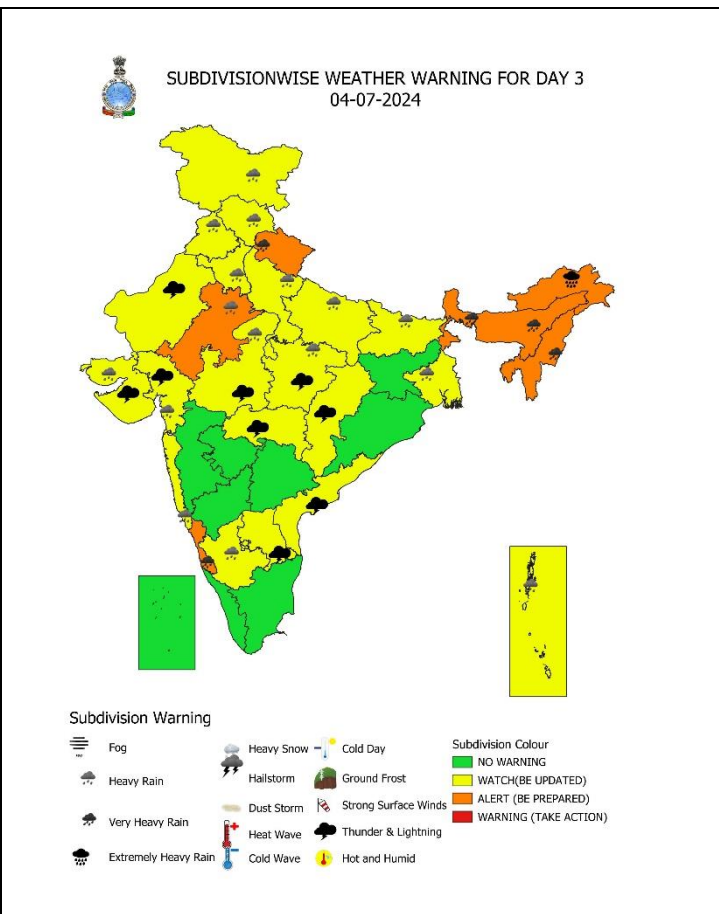
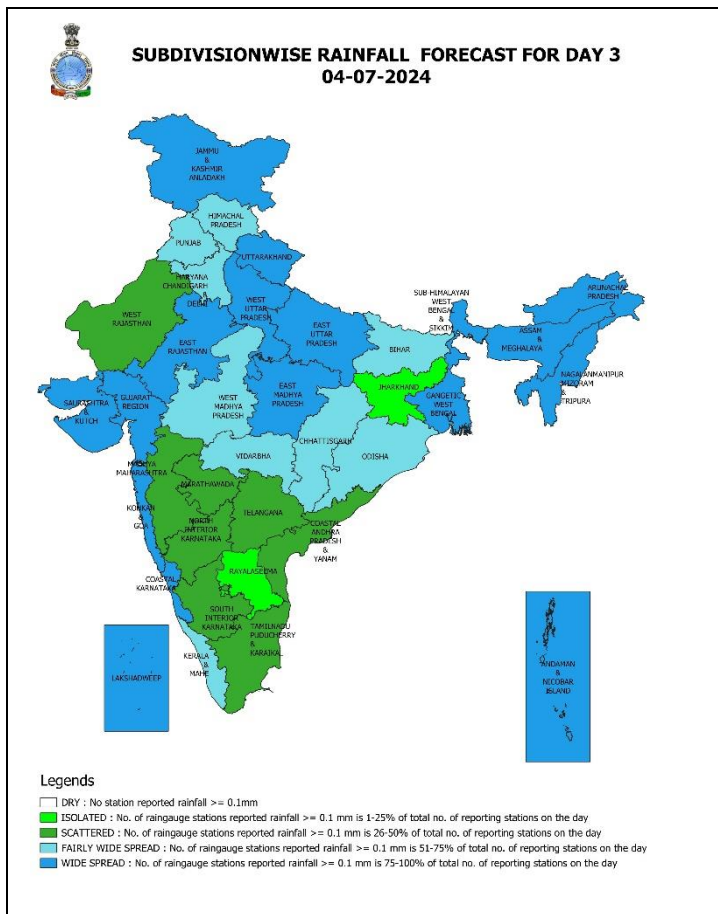
02 July (Day 1):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Uttarakhand, Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places Himachal Pradesh, Punjab, Haryana-Chandigarh, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat state; **Heavy rainfall** at isolated places over Delhi, East Rajasthan, Chhattisgarh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Konkan & Goa, Madhya Maharashtra, Kerala & Mahe and Coastal Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha, Saurashtra & Kutch.
- ❖ **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, along and off Karnataka, Kerala coasts, over Lakshadweep area, gulf of Mannar, off Sri Lanka coast, south and central Bay of Bengal & north Bay of Bengal, along and off north Andhra Pradesh, Odisha, west banal coasts; **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, southwest and adjoining southeast Arabian sea & central Arabian sea and adjoining north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.



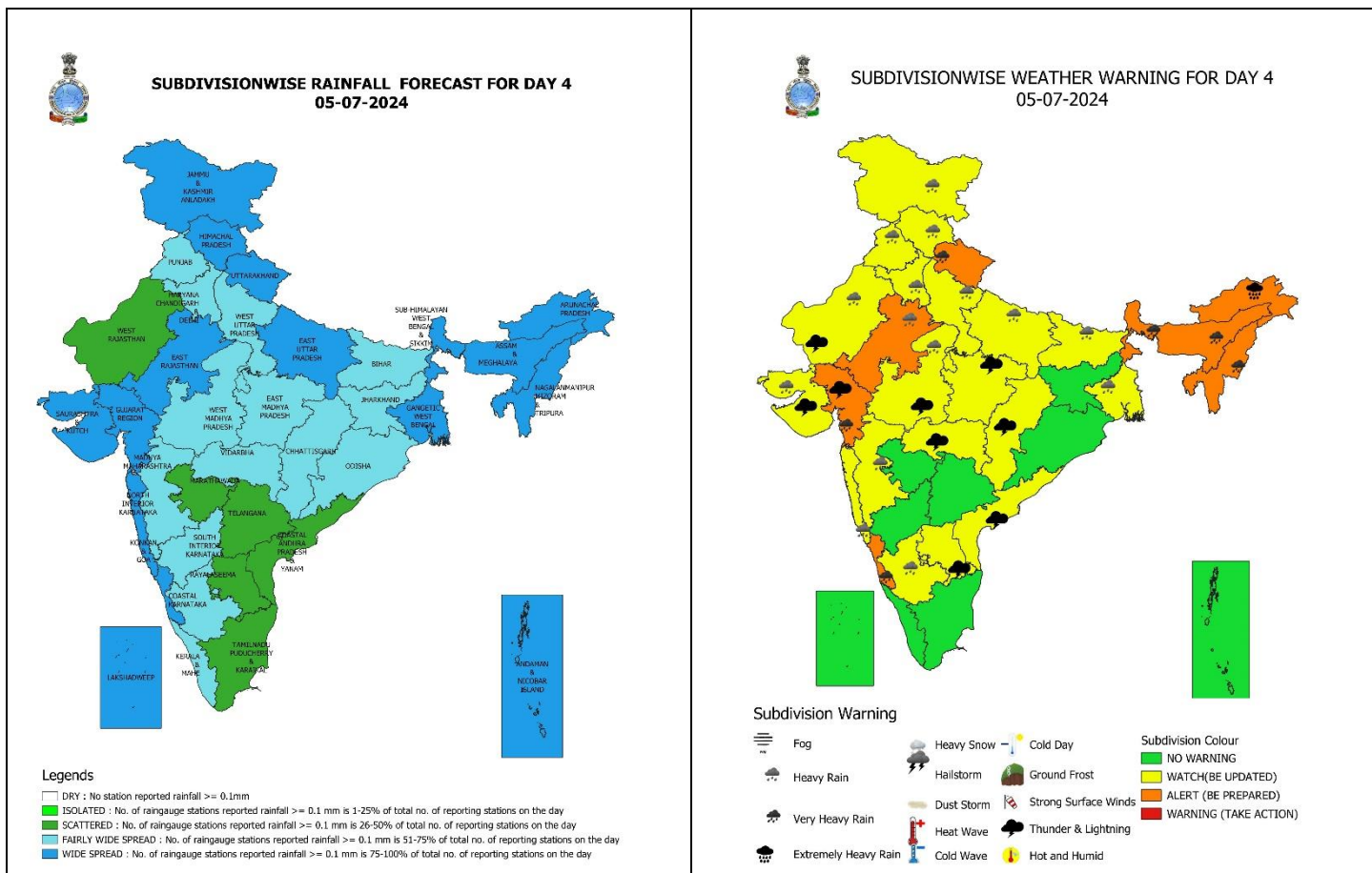
03 July (Day 2):

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



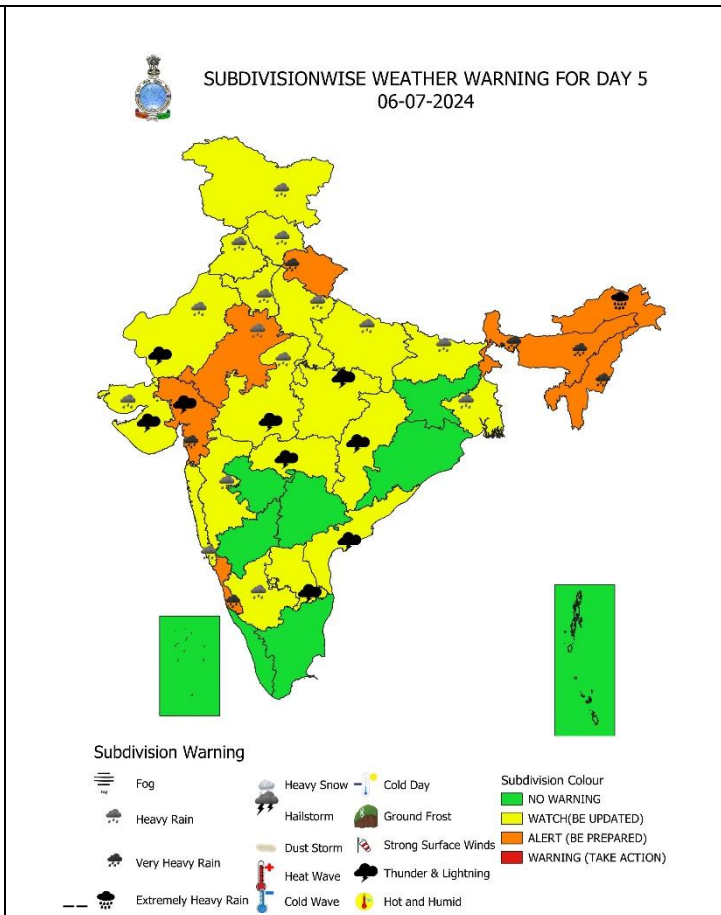
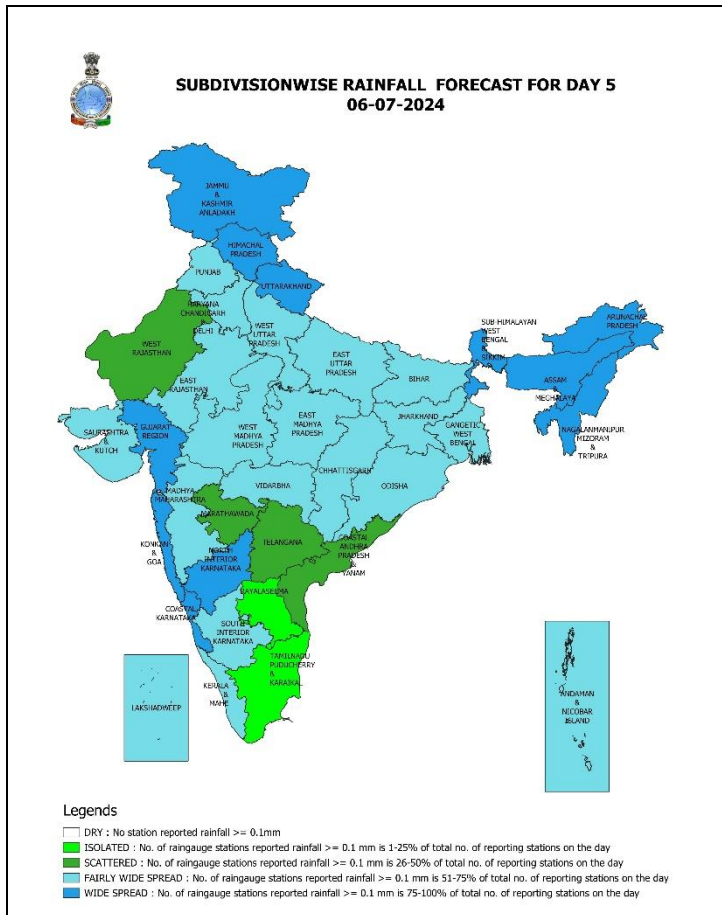
04 July (Day 3):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Arunachal Pradesh; **Heavy to very heavy rainfall** at isolated places Uttarakhand, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka; **heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh, Uttar Pradesh, Madhya Pradesh, Andaman & Nicobar Islands, Gangetic West Bengal, Bihar, Konkan & Goa, Gujarat state and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Chhattisgarh and Gujarat state.
- ❖ **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, over gulf of Mannar, off Sri Lanka coast, south and central Bay of Bengal & southern parts of north Bay of Bengal, along and off north Andhra Pradesh; **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, southwest and adjoining southeast Arabian sea & central Arabian sea and adjoining north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.



05 July (Day 4):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Arunachal Pradesh; **Heavy to very heavy rainfall** at isolated places Uttarakhand, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Coastal Karnataka; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh, Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Gangetic West Bengal, Bihar, Konkan & Goa, Madhya Maharashtra, Saurashtra & Kutch and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Chhattisgarh and Gujarat state.
- ❖ **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, over gulf of Mannar, off Sri Lanka coast, south and central Bay of Bengal & most parts of northwest Bay of Bengal, along and off north Andhra Pradesh; **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, southwest and adjoining southeast Arabian sea & central Arabian sea and adjoining north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.

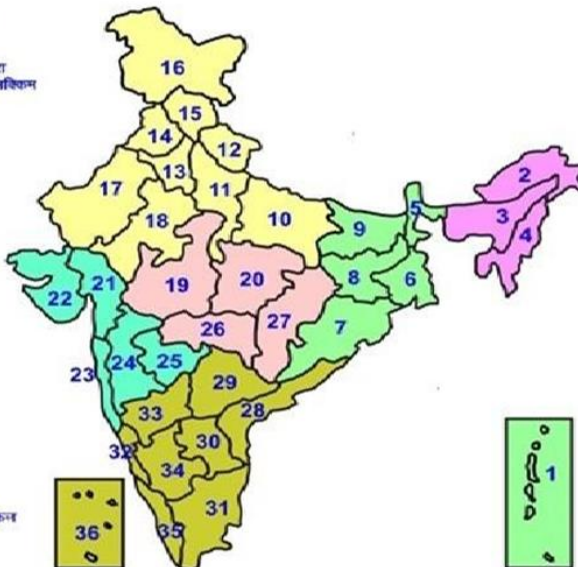


06 July (Day 5):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Arunachal Pradesh; **Heavy to very heavy rainfall** at isolated places Uttarakhand, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Coastal Karnataka; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh, Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Gangetic West Bengal, Bihar, Konkan & Goa, Madhya Maharashtra, Saurashtra & Kutch and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Chhattisgarh and Gujarat state.
- ❖ **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, over gulf of Mannar, off Sri Lanka coast, south and central Bay of Bengal & most parts of northwest Bay of Bengal, along and off north Andhra Pradesh; **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, southwest and adjoining southeast Arabian sea & central Arabian sea and adjoining north Arabian sea, along and off Yemen and 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 मध्य प्रदेश
- 24 मध्य प्रदेश
- 25 मध्य प्रदेश
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- 34 मध्य प्रदेश
- 35 मध्य प्रदेश
- 36 मध्य प्रदेश



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, 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)
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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)