

Thursday, July 4, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

- ❖ The monsoon trough is north of its normal position at mean sea level and a cyclonic circulation lies over Himachal Pradesh and a trough runs from southeast Pakistan to Bangladesh at lower tropospheric levels. Under their 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, Himachal Pradesh, Haryana-Chandigarh, Punjab, East Rajasthan during 04th-08th; West Madhya Pradesh on 04th & 05th East Madhya Pradesh on 04th July.
 - ✓ **Isolated very heavy rainfall likely over Uttarakhand on 07th & 08th, Uttar Pradesh during 04th-08th July.**
 - ✓ **Isolated extremely heavy rainfall very likely over Uttarakhand during 04th-06th July.**
- ❖ A cyclonic circulation lies over Manipur and a trough runs from northeast Madhya Pradesh to Manipur, in lower tropospheric levels. Another cyclonic circulation over Bangladesh in lower and middle tropospheric levels. Under the influence of these systems;
 - ✓ 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 Andaman & Nicobar Islands on 04th & 05th; Sub-Himalayan West Bengal & Sikkim on 07th & 08th; Odisha during 04th-08th; Gangetic West Bengal, Jharkhand on 04th, Bihar, Nagaland, Manipur, Mizoram & Tripura during 06th-08th July.
 - ✓ **Isolated very heavy rainfall likely over Sub-Himalayan West Bengal & Sikkim during 04th-06th; Bihar during 04th-05th, Arunachal Pradesh on 04th, 07th & 08th; Assam & Meghalaya on 07th & 08th; Nagaland, Manipur, Mizoram & Tripura during 04th- 05th July.**
 - ✓ **Isolated extremely heavy rainfall very likely over Arunachal Pradesh on 05th & 06th; Assam & Meghalaya during 04th- 06th July.**
- ❖ A cyclonic circulation lies over Gujarat in middle tropospheric levels. The off-shore trough at mean sea level runs along south Gujarat- 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 and Interior Karnataka; isolated to scattered light to moderate rainfall over Marathwada, Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Telangana during next 5 days.
 - ✓ Isolated **heavy rainfall** very likely over Konkan & Goa, Kerala & Mahe, Karnataka State during 04th-08th; Madhya Maharashtra on 04th; Gujarat Region on 04th & 05th July.
 - ✓ **Isolated very heavy rainfall very likely over Ghat areas of Madhya Maharashtra during 05th - 08th July.**

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at many places over West Bengal and Odisha; at a few places over Uttar Pradesh, Bihar, Konkan & Goa and Kerala & Mahe; at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Delhi, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Chhattisgarh, Madhya Pradesh, Gujarat region, Vidarbha, Telangana, Coastal Karnataka and South Interior Karnataka.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over East Uttar Pradesh.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Uttarakhand:** Pantnagar-2; **Haryana:** Narnaul-4; **Delhi:** Ayanagar-4; **Uttar Pradesh:** Hardoi-9; Varanasi-7; Gorakhpur-4; Moradabad and Lakhimpur-Kheri-3 each; **East Madhya Pradesh:** Narsinghpur-2; **Bihar:** Bhagalpur-4; Purnea-2; **Odisha:** Keonjhar-3; Chandbali-2; **Gangetic West Bengal:** Asansol-5.
- ❖ **Reported maximum wind speed (in kmph)** (from 0830 hours IST to 1730 hours IST of yesterday): **Ladakh:** Padum-56; Chuchot-Yokma and Khaltse-46 each; **Himachal Pradesh:** Reckon-54; **Punjab:** Samarala-50; **Uttar Pradesh:** Mohana-46; **Gujarat:** Maktanpur-48; **Maharashtra:** Kalwan-56; Jalgaon and Karad -50 each; Mahab-48; Ambejogai, Solapur, Rahuri, Mulde and Santacruz -46 each; **Telangana:** Karimnagar-50; **Karnataka:** Shivamogga-48; **Kerala:** Vadakara-48.
- ❖ **Minimum Temperature Departures (as on 03-07-2024):** 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 Himachal Pradesh, Konkan & Goa; at isolated places over Punjab, Haryana-Chandigarh-Delhi, West Rajasthan, Madhya Maharashtra, Gujarat State, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. These were **below normal (-1.6°C to -3.0°C)** at isolated places over West Uttar Pradesh, East Madhya Pradesh, Marathwada, Gangetic West Bengal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 18.5°C** was reported at **Dehri (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 03-07-2024):** Maximum temperatures were **markedly above normal (5.1°C & above)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at isolated places over Himachal Pradesh, West Rajasthan, Kerala & Mahe, Vidarbha & Madhya Maharashtra. These were **markedly below normal (-5.1°C & below)** at isolated places over East Madhya Pradesh and Uttar Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Odisha and Gangetic West Bengal; at isolated places over Saurashtra & Kutch, Haryana-Chandigarh-Delhi and Bihar; **below normal (-1.6°C to -3.0°C)** at isolated places over South Interior Karnataka and Punjab and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature of 44.6°C** was reported at **Ganganagar (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Monsoon trough at mean sea level continues to pass through Ferozpur, Rohtak, Lucknow, Ballia, Purnea and thence eastwards to Manipur.
- ❖ The trough from southeast Pakistan to Bangladesh across south Rajasthan, Madhya Pradesh, Jharkhand at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over Bangladesh between 1.5 and 7.6 km above mean sea level tilting southwards with height persists.
- ❖ The cyclonic circulation over Himachal Pradesh now lies over northwest Uttar Pradesh & neighbourhood and extends upto 1.5 km above mean sea level.
- ❖ The cyclonic circulation over Manipur at 1.5 km above mean sea level persists.
- ❖ The trough from northeast Madhya Pradesh to Manipur across north Chhattisgarh and Jharkhand at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over Gujarat & neighbourhood between 4.5 km & 5.8 km above mean sea level persists.
- ❖ The off-shore trough at mean sea level along south Gujarat- Kerala coasts persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 11th 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 2-3 days.
- ❖ No significant change in maximum temperatures very likely over most parts of the country.

Weather Outlook for subsequent 3 days (During 11th-13th July, 2024)

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

Table-1

7 Days Rainfall Forecast

S. No.	Subdivision	04-Jul	05-Jul	06-Jul	07-Jul	08-Jul	09-Jul	10-Jul
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	WS	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	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	WS	WS	WS	FWS	FWS	FWS	FWS
7	ODISHA	FWS	SCT	FWS	FWS	FWS	FWS	FWS
8	JHARKHAND	WS	WS	FWS	FWS	FWS	FWS	FWS
9	BIHAR	WS	WS	FWS	FWS	FWS	FWS	FWS
10	EAST UTTAR PRADESH	WS	WS	FWS	FWS	FWS	FWS	FWS
11	WEST UTTAR PRADESH	WS	WS	FWS	FWS	SCT	SCT	SCT
12	UTTARAKHAND	WS	WS	WS	FWS	FWS	FWS	FWS
13	HARYANA CHANDIGARH & DELHI	WS	FWS	FWS	WS	SCT	SCT	SCT
14	PUNJAB	WS	WS	FWS	WS	SCT	SCT	SCT
15	HIMACHAL PRADESH	FWS	WS	WS	FWS	FWS	SCT	SCT
16	JAMMU & KASHMIR AND LADAKH	WS	WS	WS	FWS	SCT	SCT	SCT
17	WEST RAJASTHAN	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	FWS	FWS	FWS	FWS	SCT	SCT	SCT
19	WEST MADHYA PRADESH	WS	WS	FWS	FWS	WS	WS	WS
20	EAST MADHYA PRADESH	WS	WS	FWS	FWS	WS	WS	WS
21	GUJARAT REGION	WS	WS	FWS	FWS	FWS	FWS	FWS
22	SAURASHTRA & KUTCH	FWS	SCT	SCT	SCT	SCT	FWS	FWS
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
25	MARATHAWADA	SCT	SCT	FWS	FWS	FWS	FWS	FWS
26	VIDARBHA	FWS	FWS	FWS	WS	WS	WS	WS
27	CHHATTISGARH	FWS	FWS	FWS	WS	WS	WS	WS
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	SCT	FWS	FWS	SCT	SCT
29	TELANGANA	SCT	SCT	SCT	FWS	FWS	FWS	FWS
30	RAYALASEEMA	ISOL	ISOL	ISOL	SCT	SCT	FWS	FWS
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	ISOL	SCT	SCT	FWS	FWS	FWS	FWS
34	SOUTH INTERIOR KARNATAKA	SCT	FWS	FWS	FWS	WS	WS	WS
35	KERALA & MAHE	WS	WS	WS	WS	WS	WS	WS
36	LAKSHADWEEP	FWS	FWS	FWS	FWS	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.
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

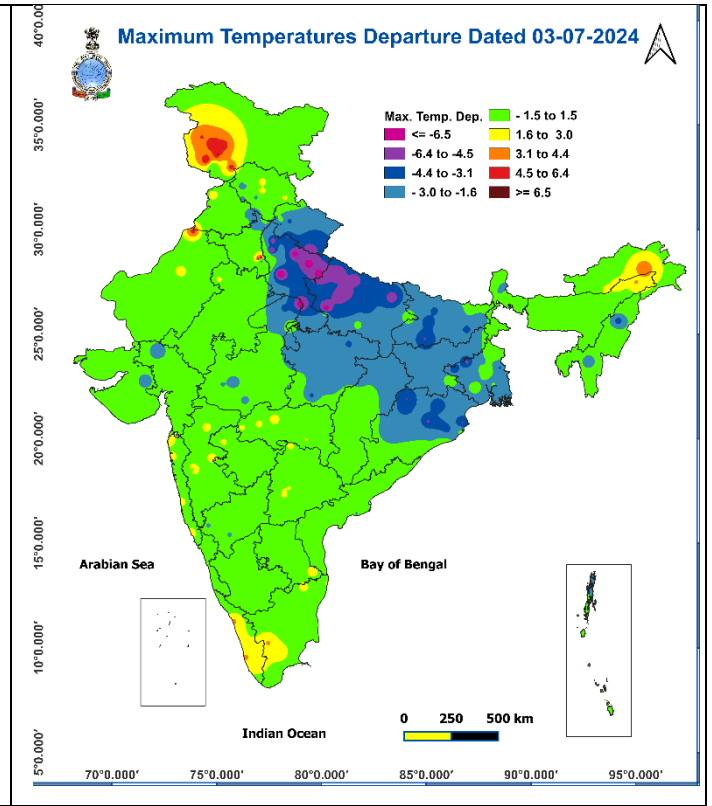
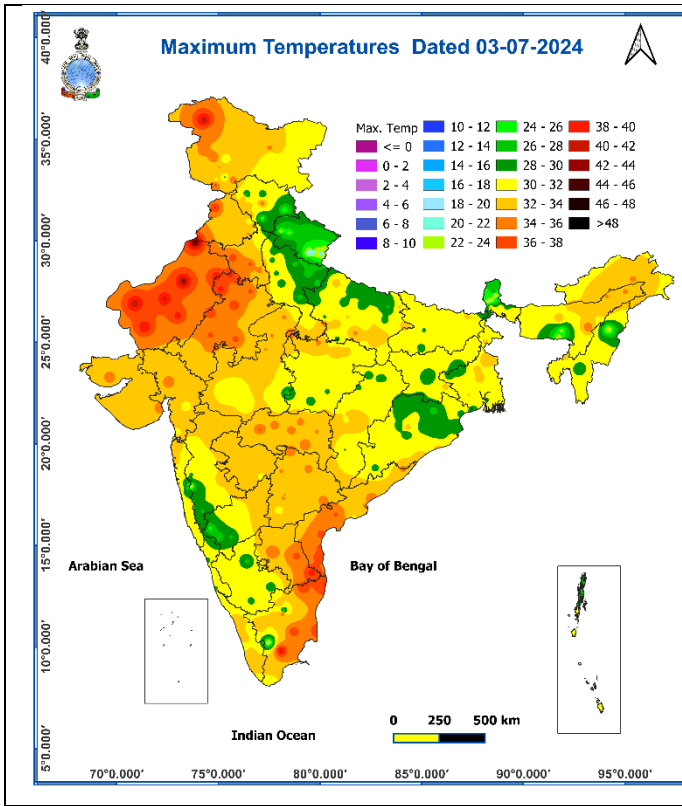


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

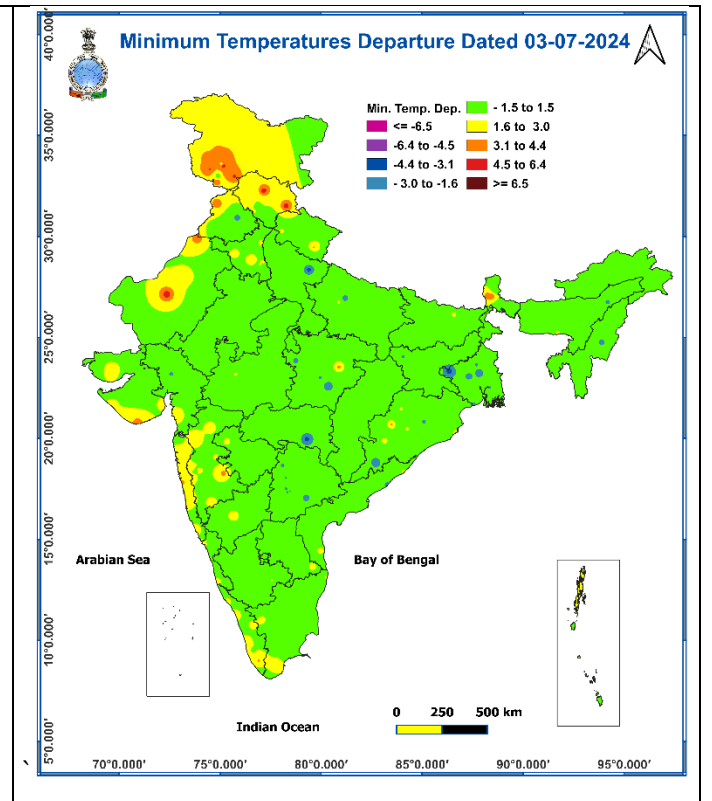
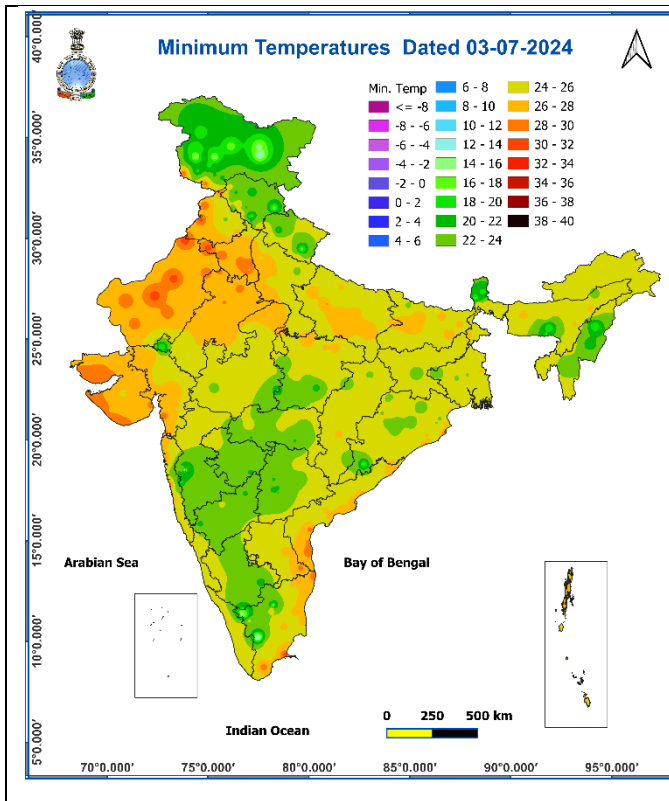
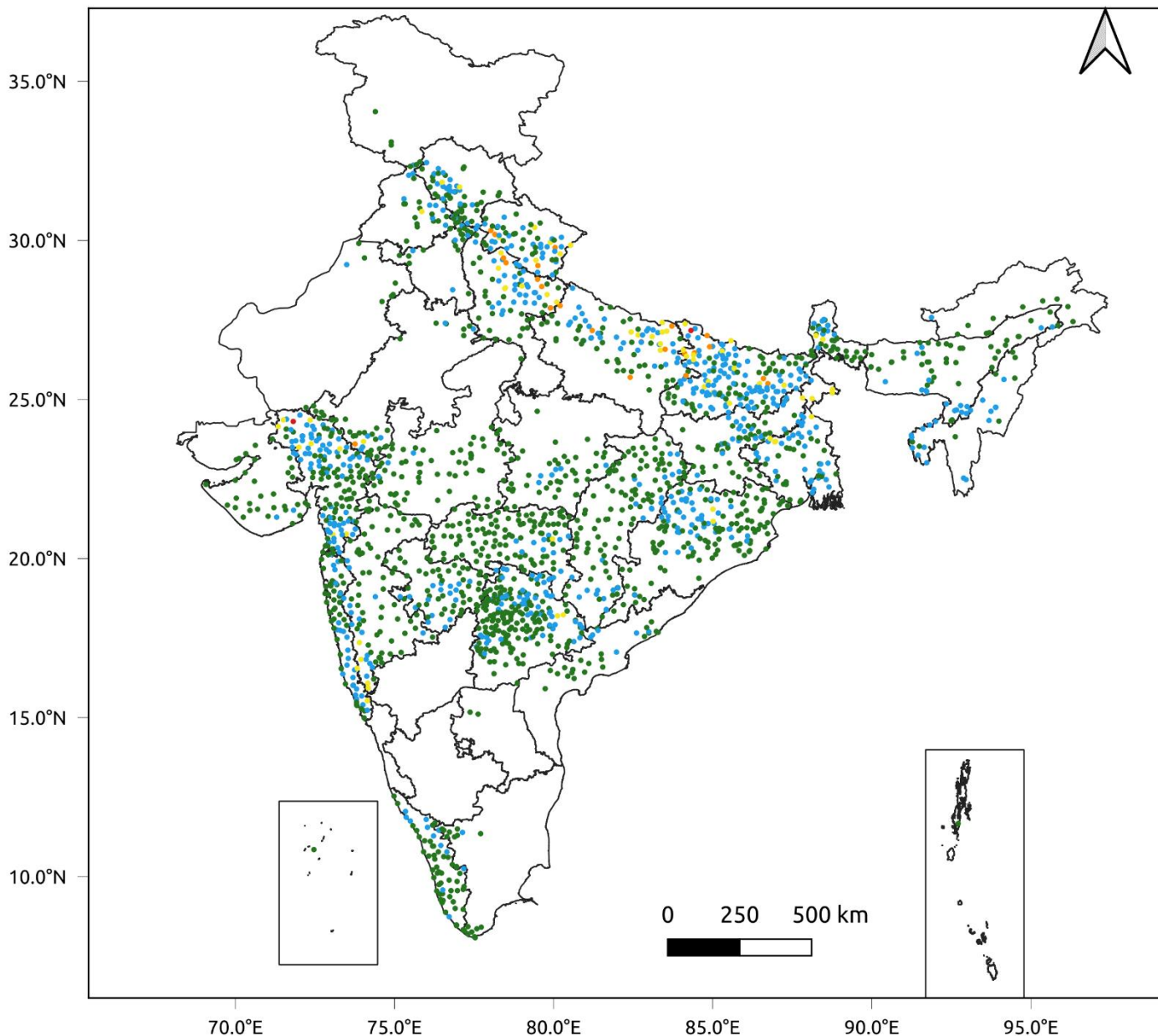


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 2-7-2024 to 0830 IST of 3-7-2024

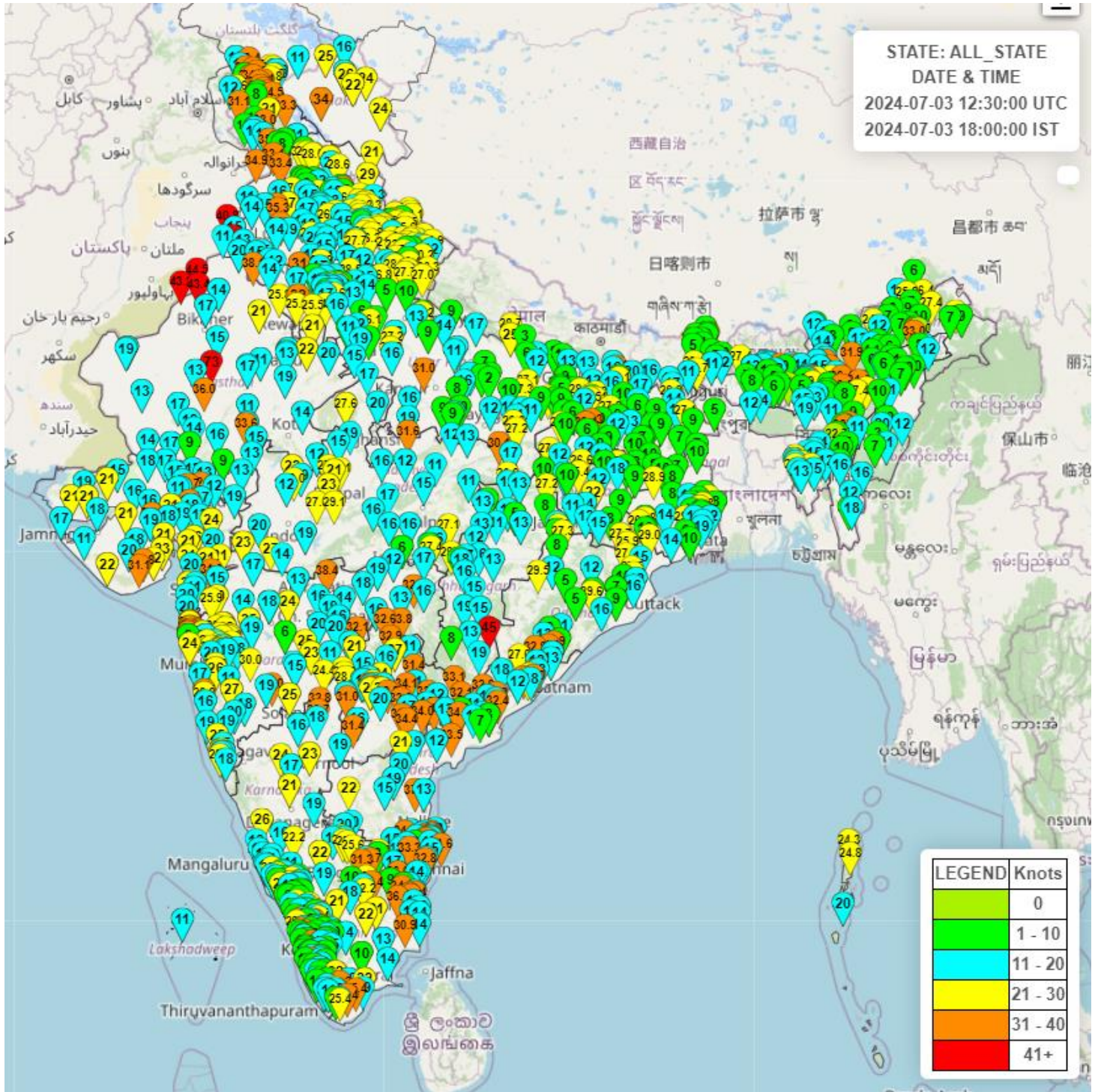


Legends

- 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)

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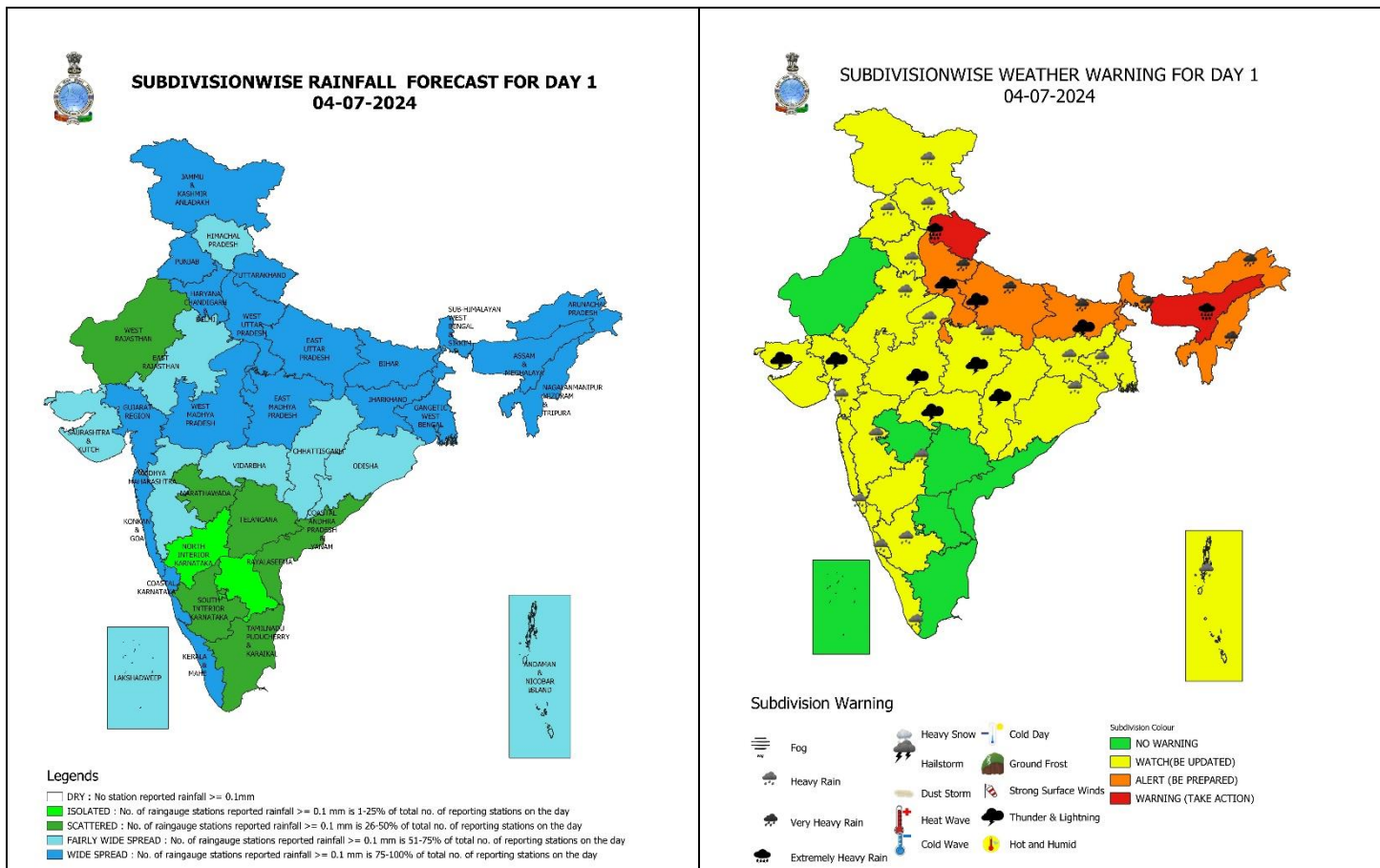
Fig. 6: Gusty winds reported over the country (in knots) from 0830 hours IST of 03.07.2024 to 1800 hours IST of 03.07.2024



1 Knot = 1.852 kmph

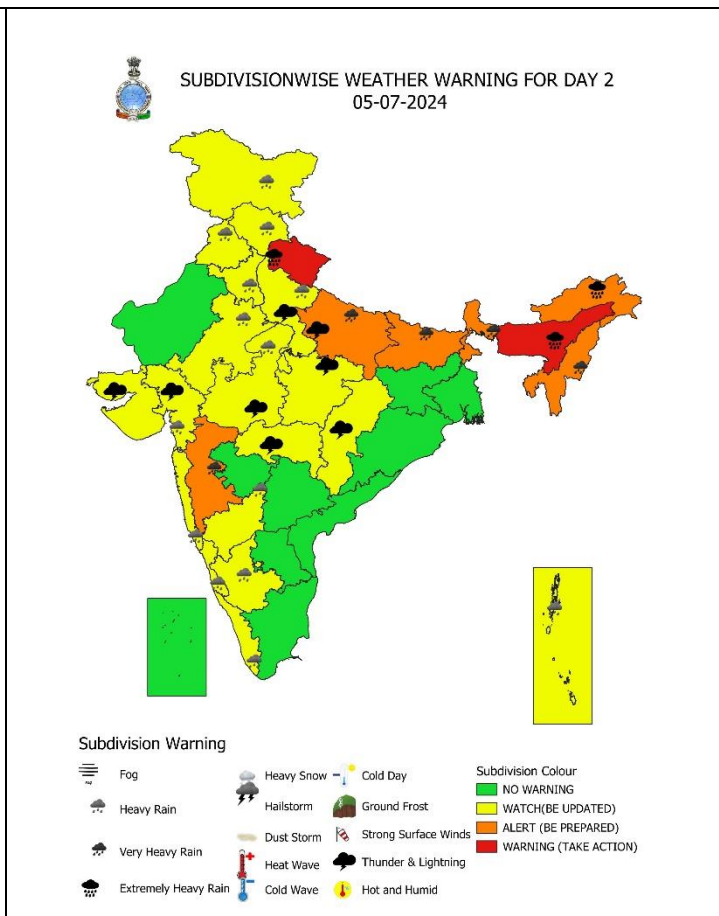
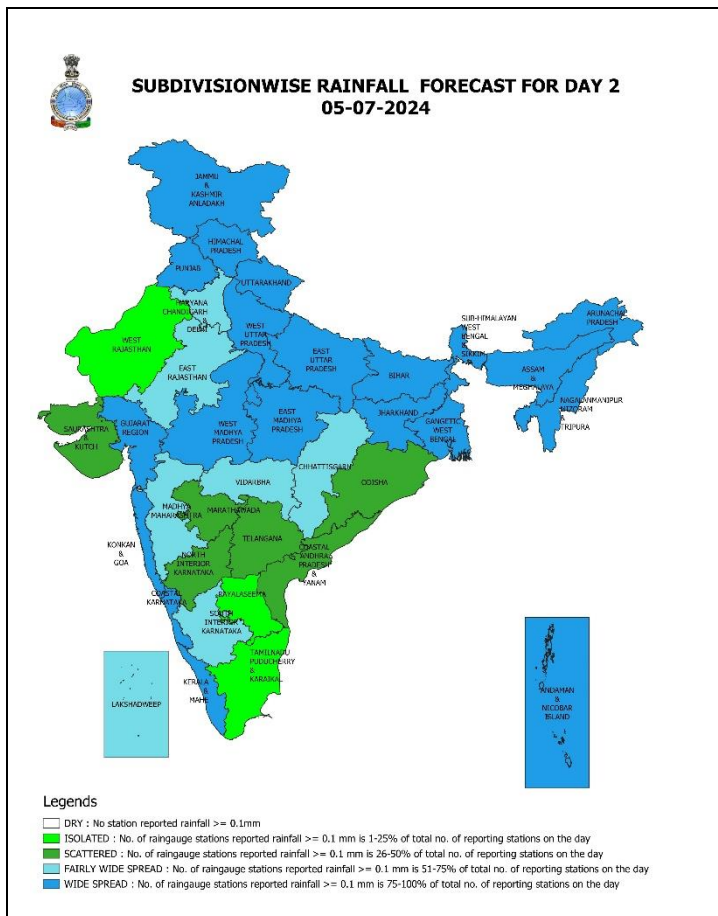
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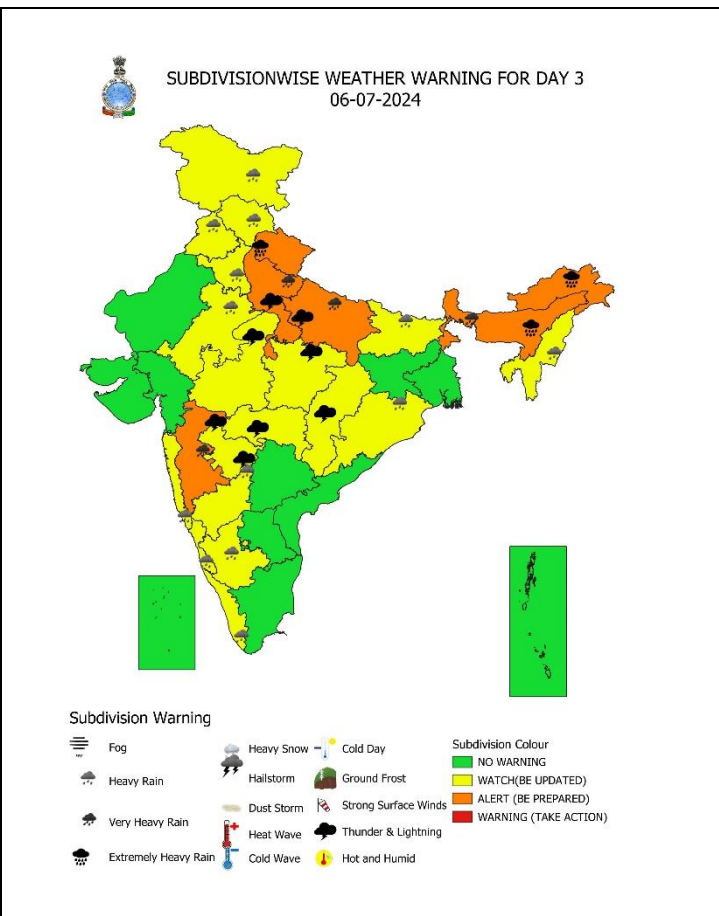
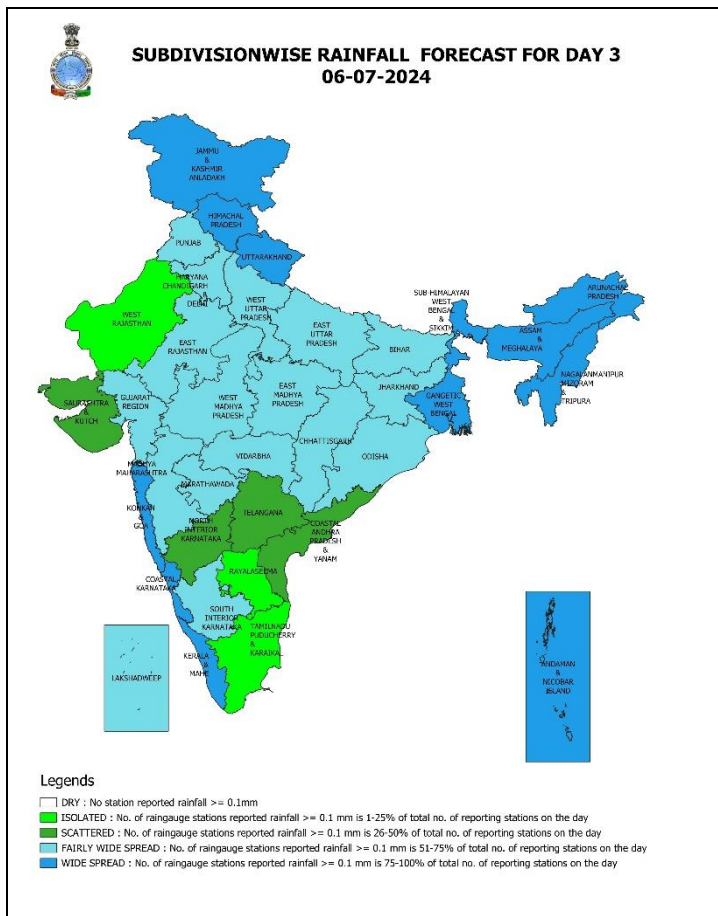
04 July (Day 1):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Uttarakhand, Assam & Meghalaya; **Heavy to very heavy rainfall** very likely at isolated places over Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Rajasthan, Madhya Pradesh, Andaman & Nicobar Islands, Gangetic West Bengal, Jharkhand & Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Madhya Pradesh and with **lightning** at isolated places over Uttar Pradesh, Bihar & 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, gulf of Mannar, off Sri Lanka coast, southwest Bay Of Bengal & northern parts of southeast Bay Of Bengal, central Bay Of Bengal & adjoining northwest Bay Of Bengal, off north Andhra Pradesh, south Odisha coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail 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, southern parts of north Arabian sea, along and off Yemen and Oman coasts. fishermen are advised not to venture into these areas.



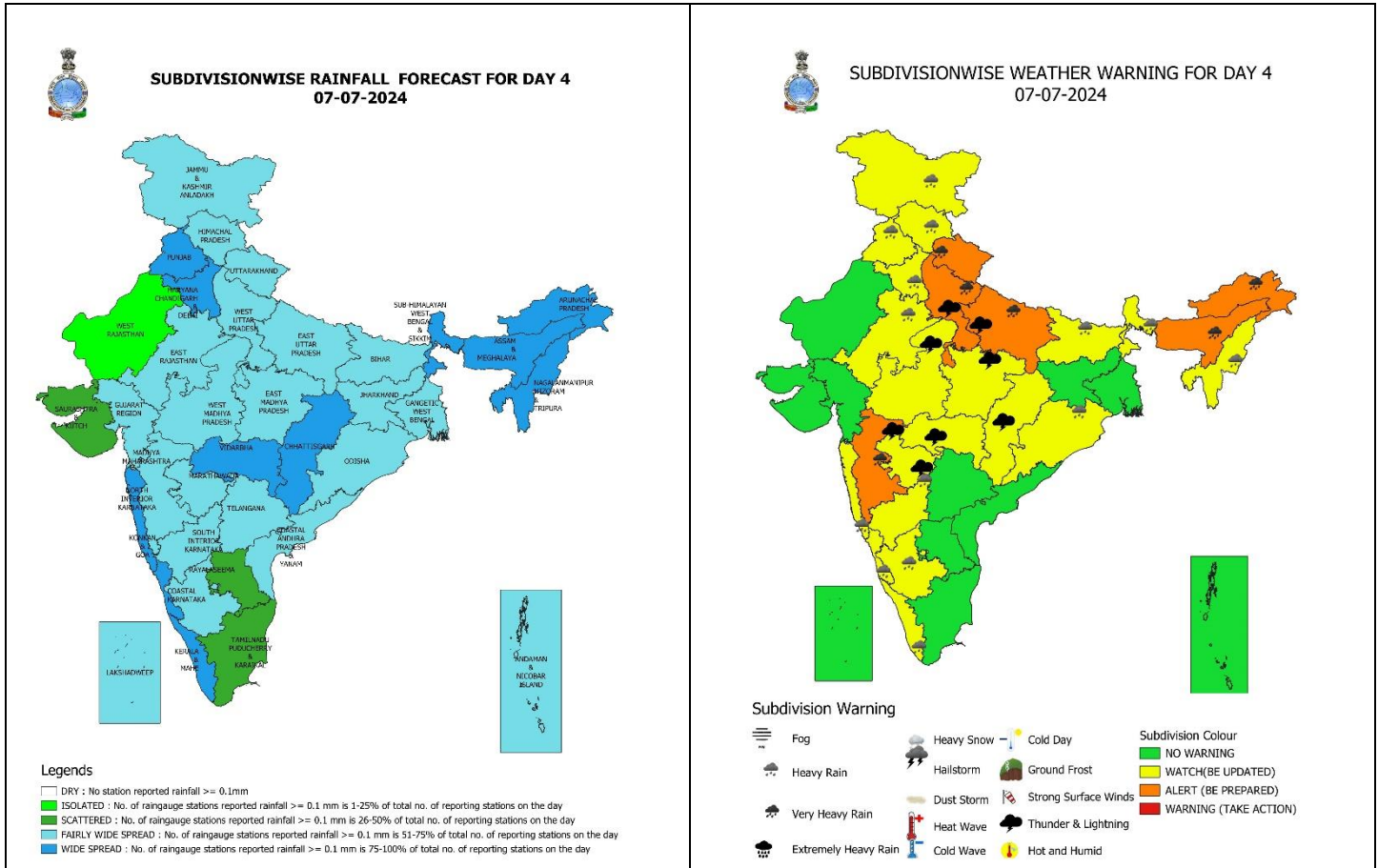
05 July (Day 2):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Uttarakhand, Arunachal Pradesh and Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Andaman & Nicobar Islands, Konkan & Goa, Gujarat Region, Kerala & Mahe & Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Madhya Pradesh and with **lightning** at isolated places over Uttar Pradesh, Vidarbha, Chhattisgarh & 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, gulf of Mannar, off Sri Lanka coast, southwest bay of Bengal & adjoining southeast bay of Bengal, central bay of Bengal & adjoining northwest bay of Bengal, off north Andhra Pradesh, south Odisha coasts. **Squally weather with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail 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, southern parts of north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.



06 July (Day 3):

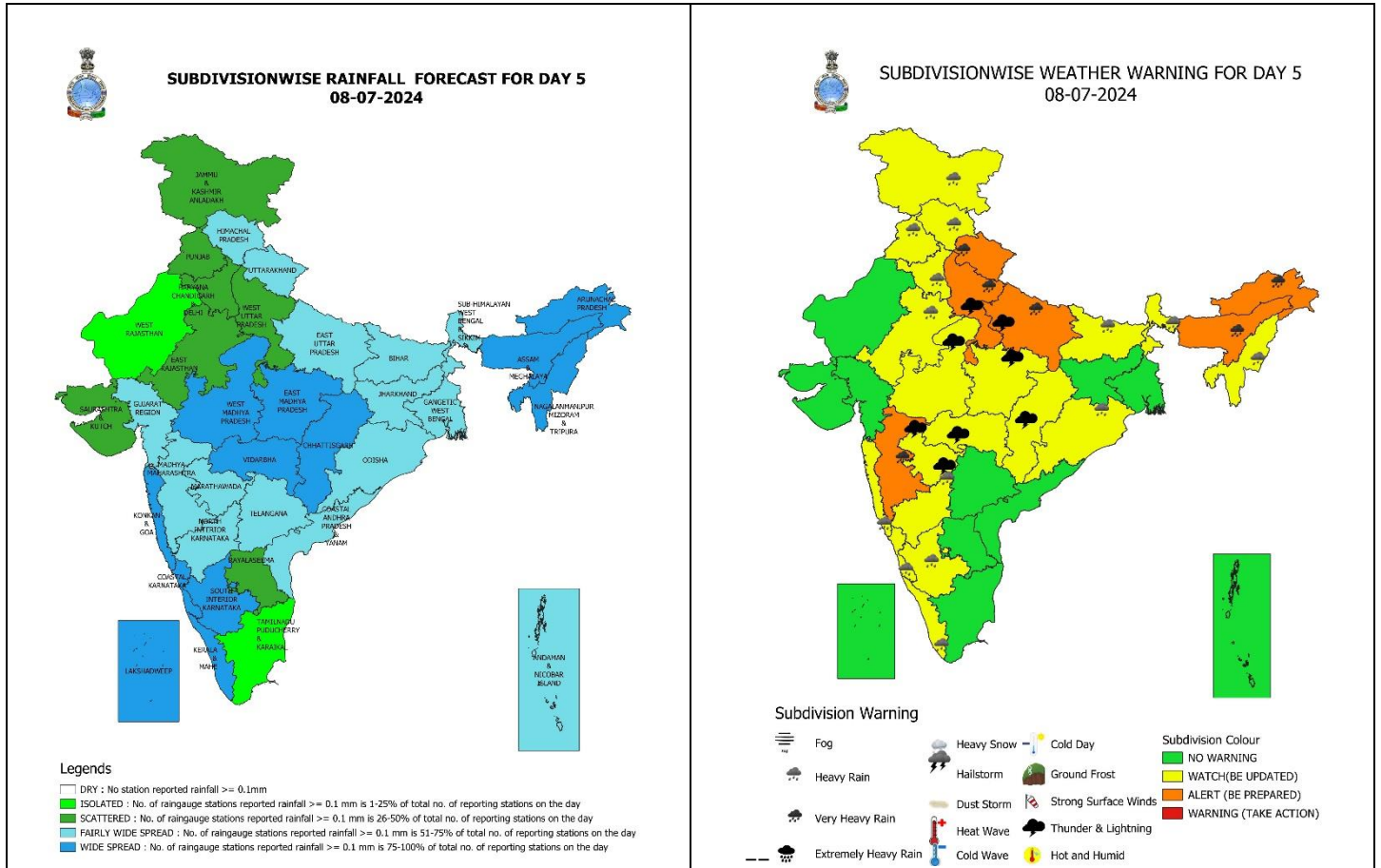
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Uttarakhand, Arunachal Pradesh and Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places over Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Madhya Maharashtra; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Rajasthan, Bihar, Odisha, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Kerala & Mahe & Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Madhya Pradesh and with **lightning** at isolated places over Uttar Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, 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, 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** likely 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 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Kerala & Mahe & Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over East Madhya Pradesh and with **lightning** at isolated places over Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, 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, 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** likely 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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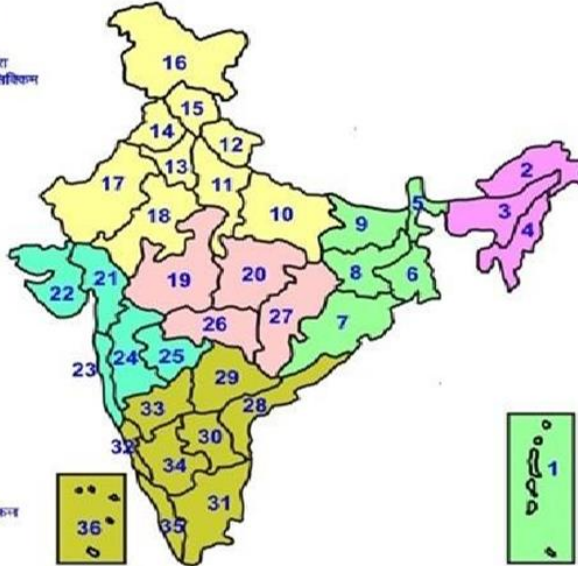


08 July (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttarakhand, Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Kerala & Mahe & Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over East Madhya Pradesh and with **lightning** at isolated places over Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, 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, 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** likely 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.

LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम 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 मध्य प्रदेश
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- 36 मध्य 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)