

Friday, July 5, 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 southeast Pakistan 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 on 06th; Himachal Pradesh on 06th & 07th; Uttarakhand on 08th; Punjab on 06th & 07th; Haryana-Chandigarh-Delhi during 05th- 06th; Uttar Pradesh during 05th – 09th; East Rajasthan on 05th & 06th; West Madhya Pradesh on 05th; East Madhya Pradesh on 05th; Chhattisgarh on 07th & 08th July.
 - ✓ **Isolated very heavy rainfall likely over Jammu Division on 05th; over Himachal Pradesh on 05th; over Uttarakhand during 05th – 07th; Punjab on 05th; Uttar Pradesh on 05th & 06th July.**
- ❖ A cyclonic circulation lies over northeast Rajasthan and a trough runs from northeast Rajasthan to Bangladesh and a trough runs roughly along Long. 93°E to the north of Lat. 24°N in lower tropospheric levels. Another cyclonic circulation over west Jharkhand in lower & 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 05th; Jharkhand 05th; Odisha 06th, 08th & 09th; Bihar during 06th -09th; Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura on 07th, 08th & 09th and Assam & Meghalaya on 08th & 09th July.
 - ✓ **Isolated very heavy rainfall likely over Bihar 05th, Sub-Himalayan West Bengal & Sikkim during 05th- 06th, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura on 06th; Assam & Meghalaya on 06th & 07th and over Odisha on 07th July.**
 - ✓ **Isolated extremely heavy rainfall very likely over Arunachal Pradesh and Assam & Meghalaya on 05th July.**
- ❖ A cyclonic circulation lies over south Gujarat in middle tropospheric levels. The off-shore trough at mean sea level runs along south Gujarat- Karnataka coasts. 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, 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 Konkan & Goa, Telangana on 07th, 08th & 09th, Gujarat Region on 05th, Kerala & Mahe during 05th – 09th; Coastal Andhra Pradesh & Yanam; Coastal Karnataka on 08th & 09th; South Interior Karnataka on 05th, 08th & 09th July.
 - ✓ **Isolated very heavy rainfall very likely over Konkan & Goa during 05th- 06th; Madhya Maharashtra during 05th- 08th; Coastal Karnataka during 05th- 07th; South Interior Karnataka on 06th & 07th July.**

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Uttarakhand; **at a few places** over Kerala & Mahe, Himachal Pradesh, Bihar, Assam & Meghalaya, Gangetic West Bengal, Konkan & Goa, Madhya Maharashtra, Gujarat Region; **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Uttar Pradesh, Madhya Pradesh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Odisha, Tamil Nadu, Puducherry & Karaikal, Telangana, South Interior Karnataka, Vidarbha, Marathwada, Saurashtra & Kutch.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Madhya Maharashtra.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **Himachal Pradesh:** Kufri-3, Dharmshalla-2; **Uttarakhand:** Dehradun-4; **East Rajasthan:** Sikar-5, Alwar-3, Kota, Udaipur-2 each; **East Madhya Pradesh:** Satna-6, Sagar-3, Damoh-2; **Bihar:** Dehri-3, **Chhattisgarh:** Bilaspur-3; **Odisha:** Gopalpur-2; **Gangetic West Bengal:** Behrampur, Sriniketan-5 each, Midnapur-3; **Assam & Meghalaya:** Dubri-4, Silchir-2; **Gujarat Region:** Surat-2; **Madhya Maharashtra:** Pune-8, Awalegon-4, Matheram-3, Mahabeleshwar-2, **Karnataka:** Honawar-3, Manglore-2; **Tamil Nadu, Puducherry & Karaikal:** Erode-2.
- ❖ **Minimum Temperature Departures (as on 04-07-2024):** 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; at isolated places over Himachal Pradesh, East Rajasthan, Marathwada, Vidarbha, Odisha, Saurashtra & Kutch. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Haryana-Chandigarh-Delhi, Uttar Pradesh, Gangetic West Bengal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 18.0°C** was reported at **Bulsar (Gujarat Region)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 04-07-2024):** 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 Assam & Meghalaya, Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at isolated places over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Konkan & Goa. These were **markedly below normal (-5.1°C & below)** at a few places over East Rajasthan; at isolated places over East Madhya Pradesh, Haryana-Chandigarh-Delhi; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Odisha; at isolated places over West Madhya Pradesh, Bihar, West Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Punjab, Gangetic West Bengal; at isolated places over Gujarat state, Vidarbha, Chhattisgarh and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature of 41.3°C** was reported at **Bikaner (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Monsoon trough at mean sea level continues to pass through Bikaner, Sikar, Orai, Dehri, Asansol and thence east-southeastwards to northeast Bay of Bengal.
- ❖ The cyclonic circulation over southeast Pakistan at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Rajasthan at 1.5 km above mean sea level persists.
- ❖ The trough from northeast Rajasthan to Bangladesh across Uttar Pradesh, Bihar & West Bengal extending upto 1.5 km above mean sea level with embedded cyclonic circulation over northeast Rajasthan persists.
- ❖ The cyclonic circulation over west Jharkhand & neighbourhood between 3.1 & 5.8 km above mean sea level persists.
- ❖ The trough roughly along Long. 93°E to the north of Lat. 24°N at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over south Gujarat & neighbourhood between 3.1 km & 4.5 km above mean sea level persists.
- ❖ The off-shore trough at mean sea level along south Gujarat- Karnataka coast persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 12th 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 12th-14th July, 2024)

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

Table-1

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

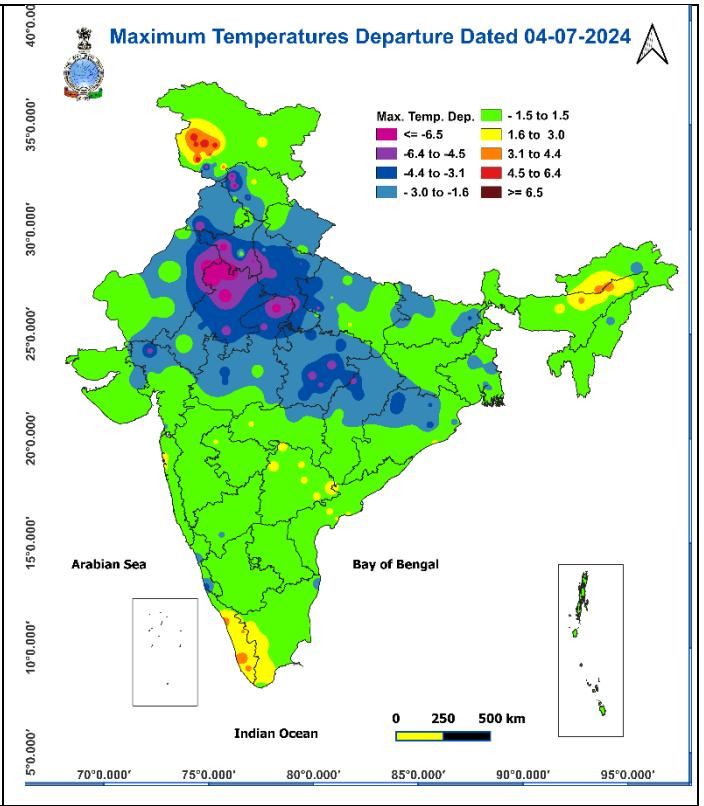
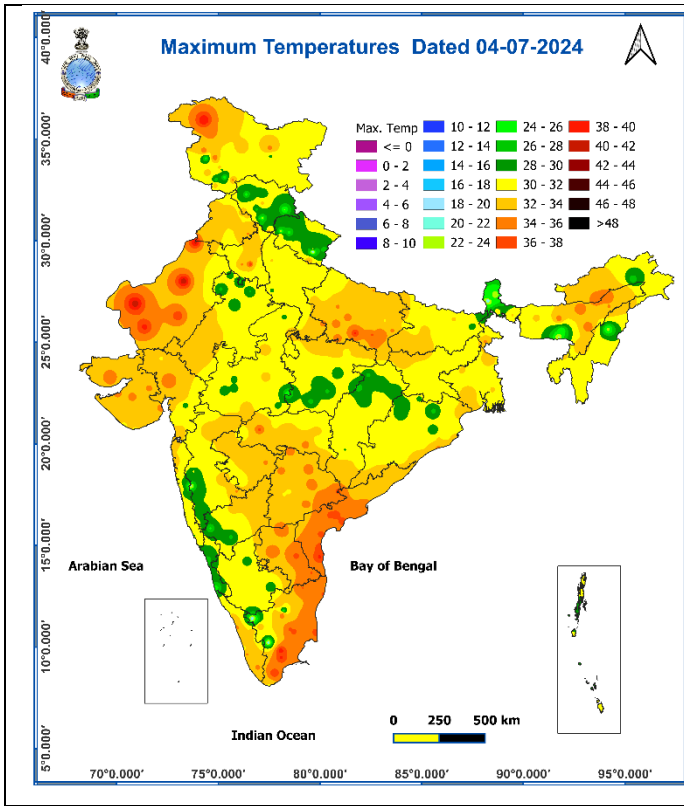


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

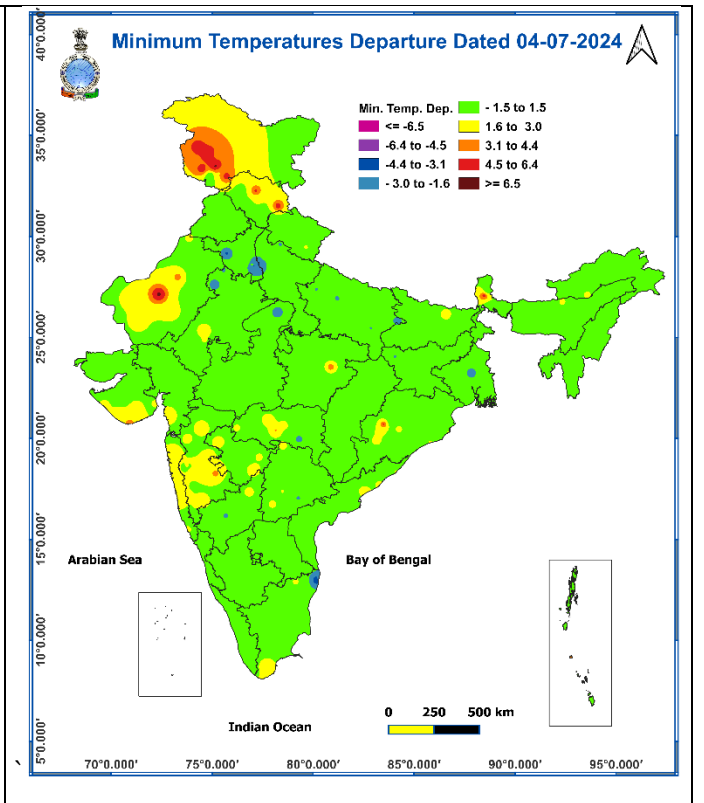
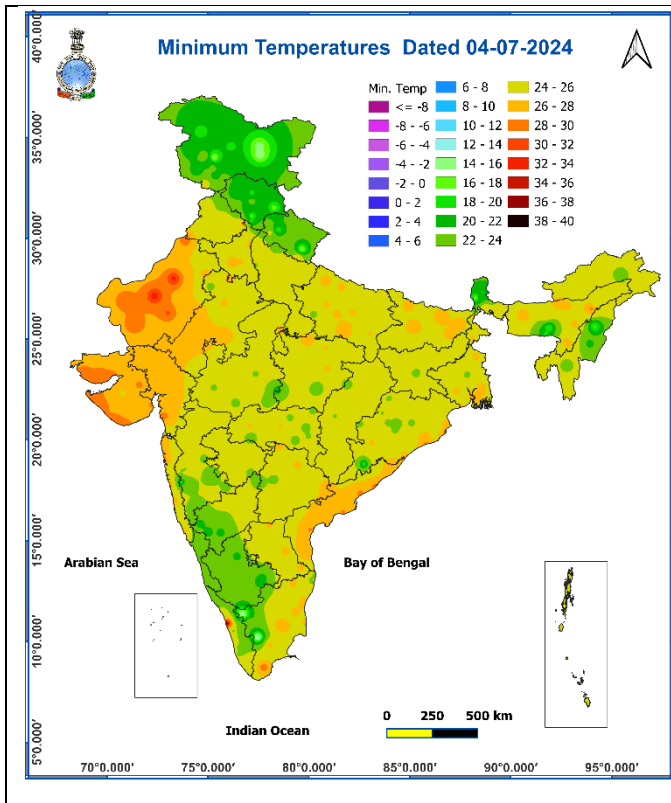
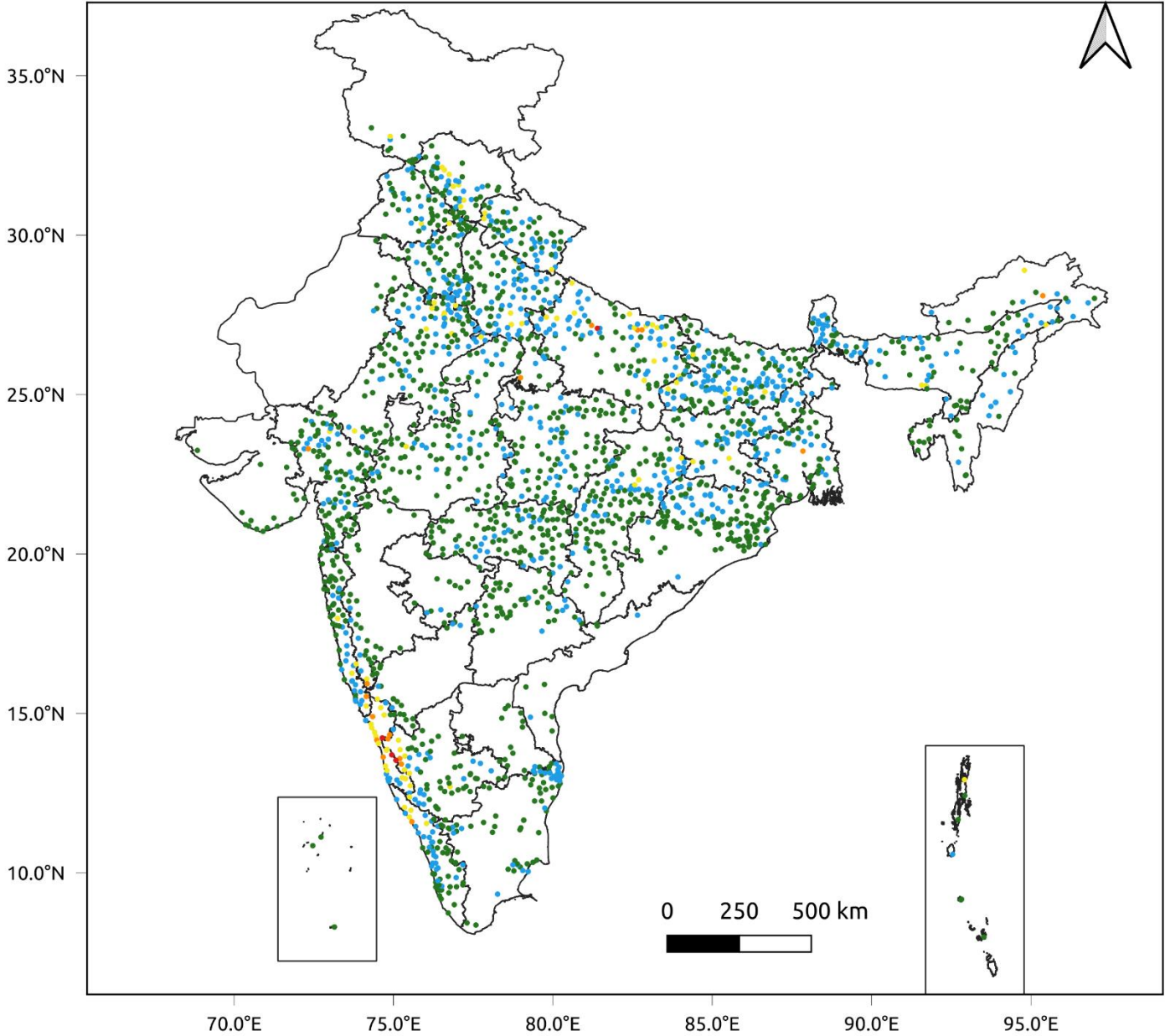


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



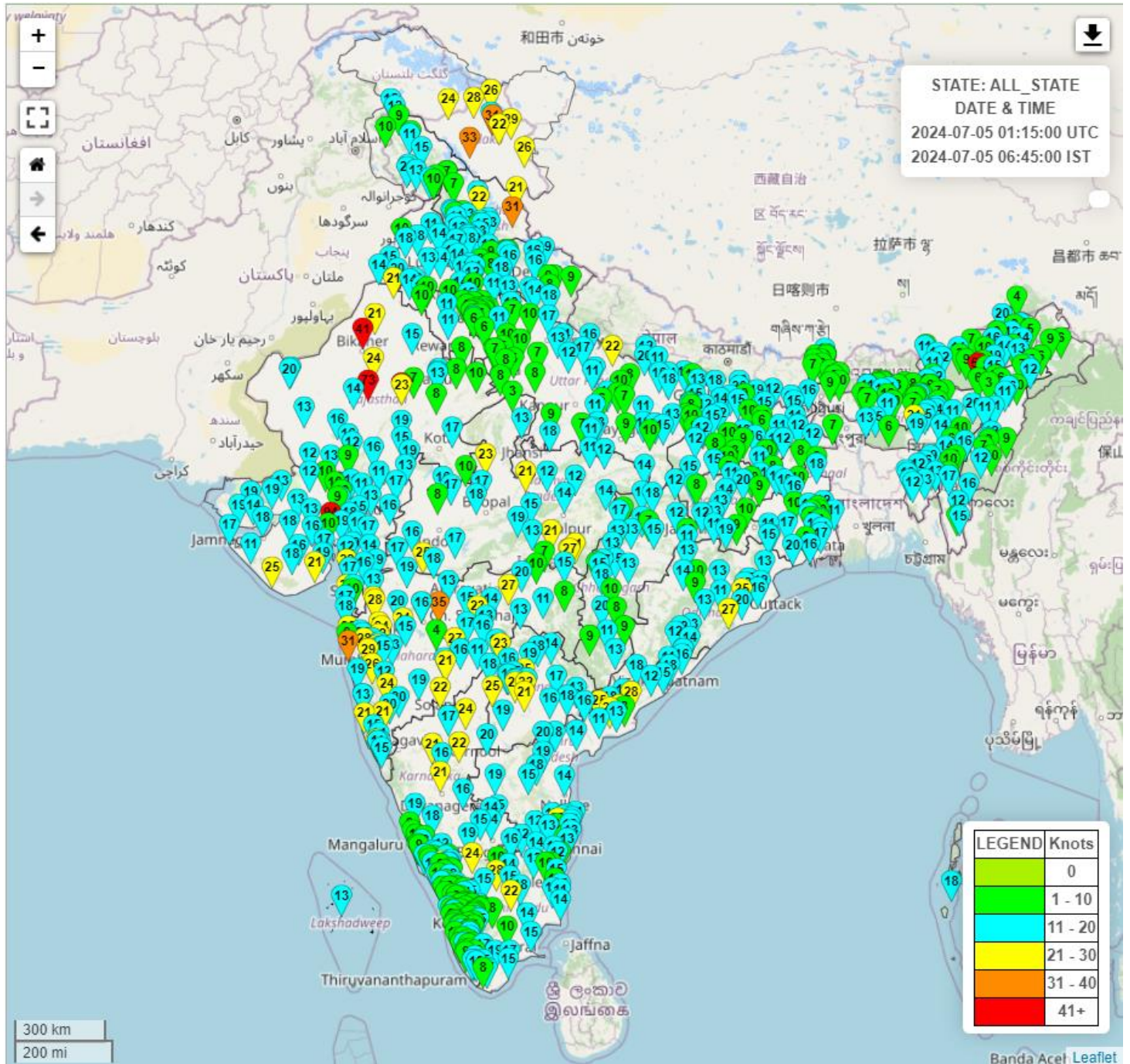
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 3-7-2024 to 0830 IST of 4-7-2024



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)

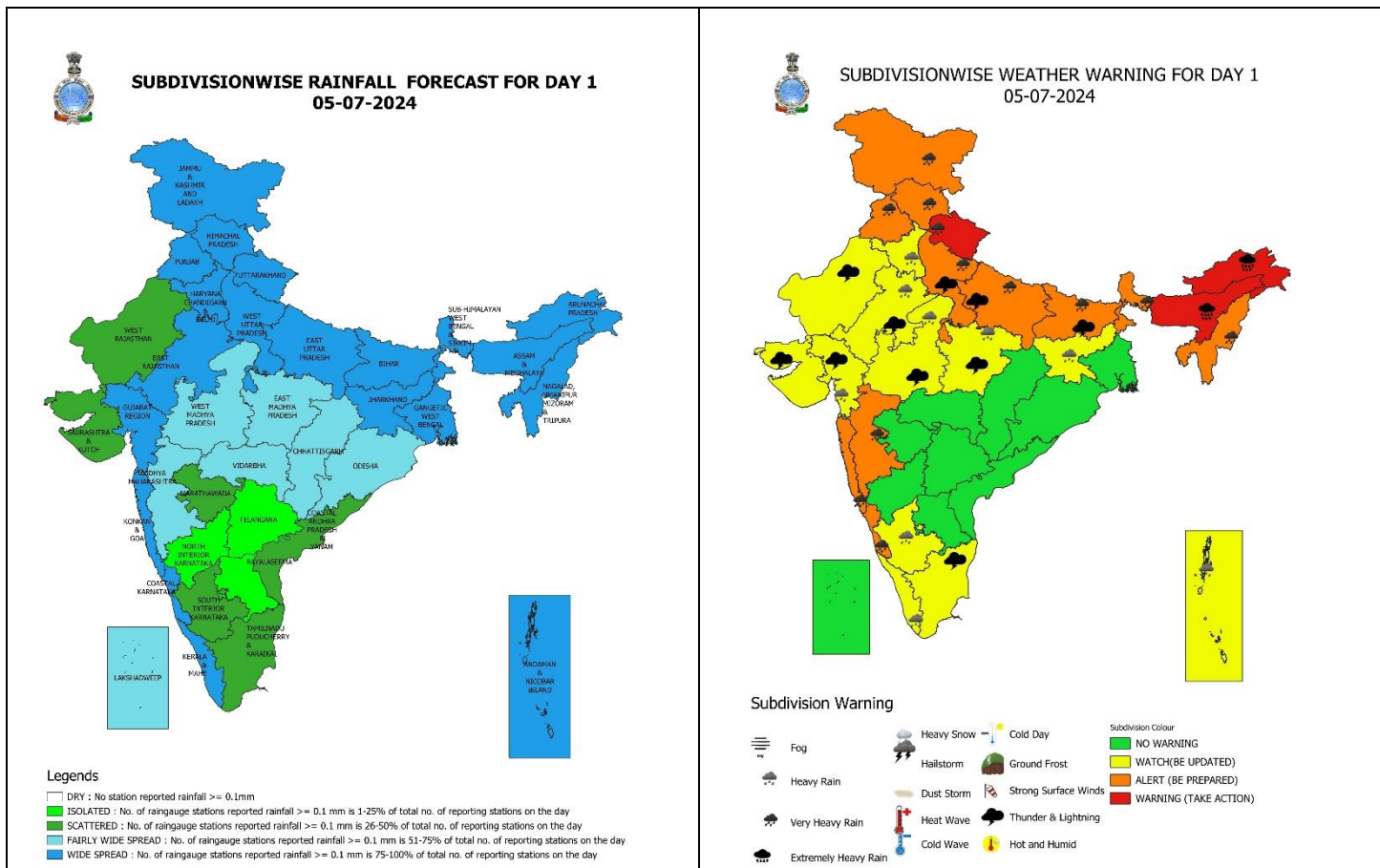
Fig. 6: Gusty winds reported over the country (in knots) from 0830 hours IST of 04.07.2024 to 0645 hours IST of 05.07.2024



1 Knot = 1.852 kmph

For more details, kindly refer: <http://aws.imd.gov.in:8091/>

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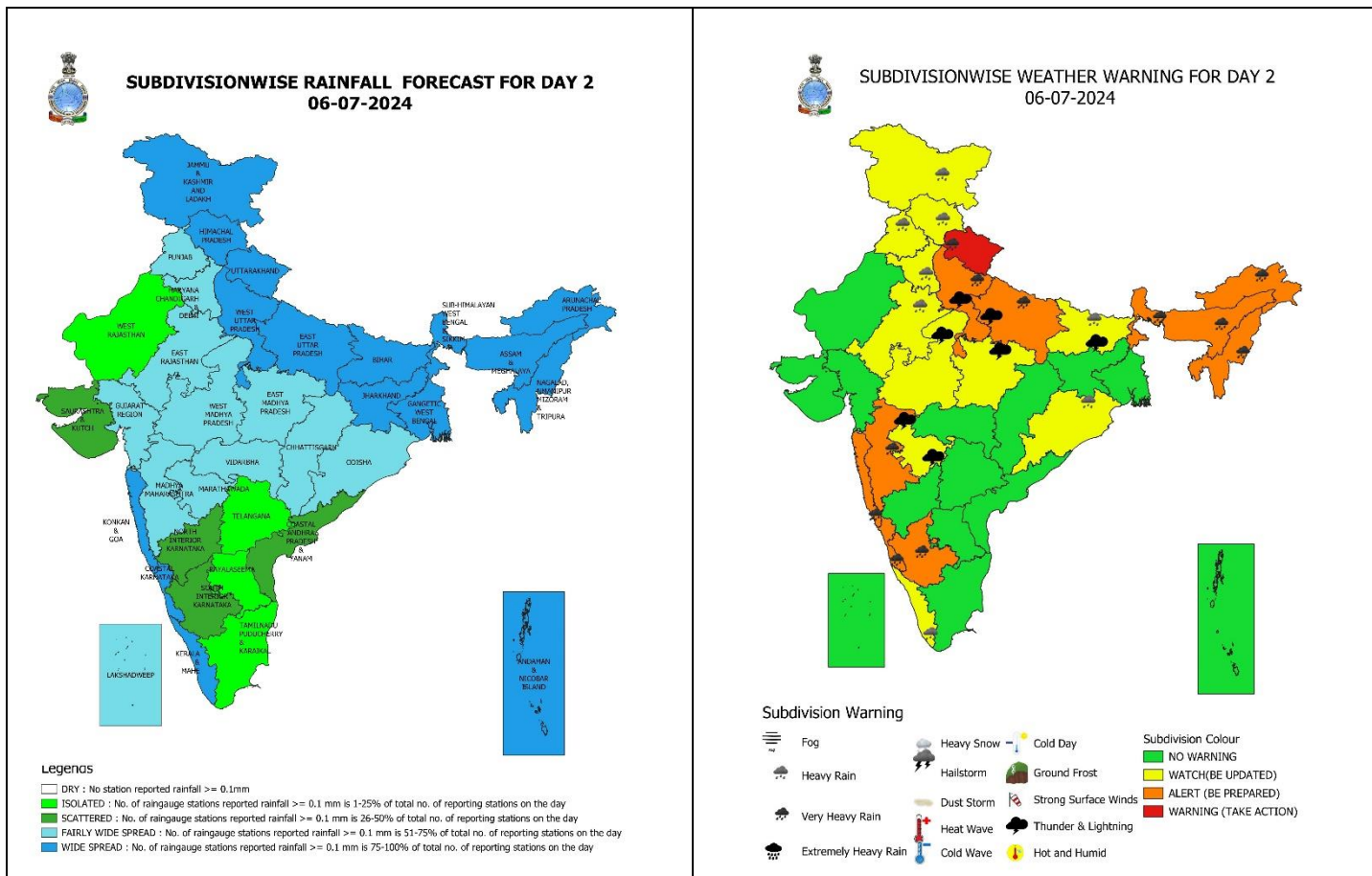


05 July (Day 1):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places over Jammu Division, Himachal Pradesh, Uttarakhand, Punjab, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra and Coastal Karnataka; **Heavy rainfall** at isolated places over Haryana-Chandigarh, East Rajasthan, Madhya Pradesh, Andaman & Nicobar Islands, Jharkhand, south Gujarat, Kerala & Mahe and South Interior 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, Rajasthan, Bihar, Gujarat state, Tamil Nadu, Puducherry & Karaikal.

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** 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.

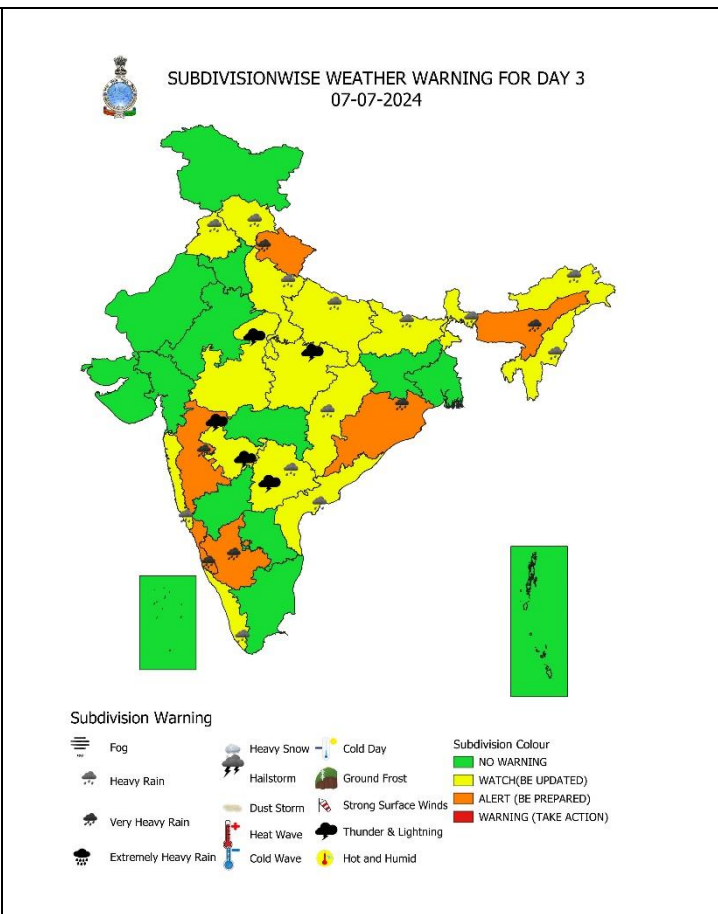
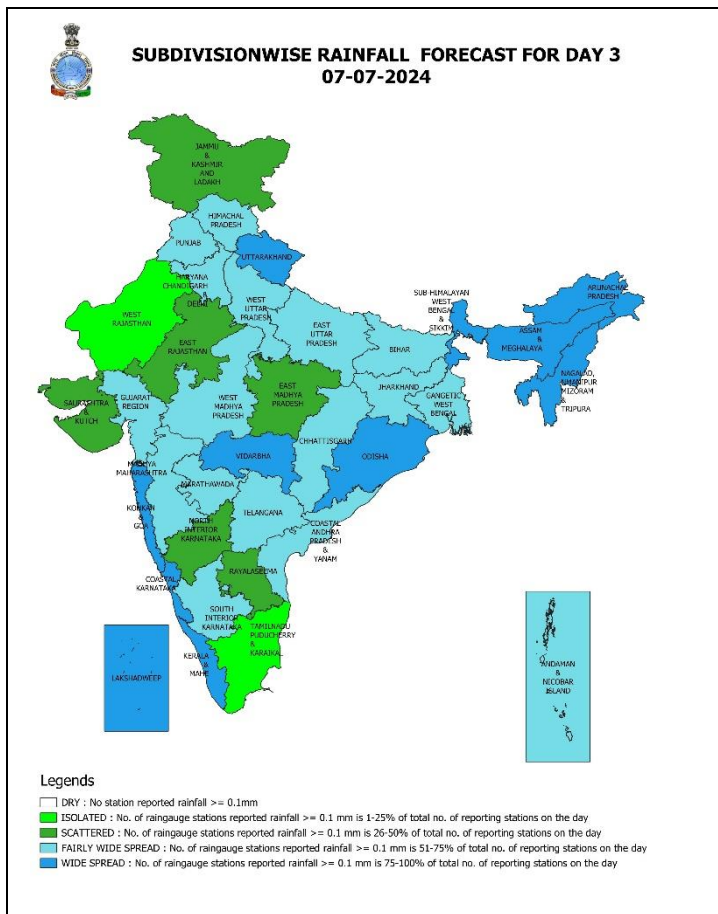
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06 July (Day 2):

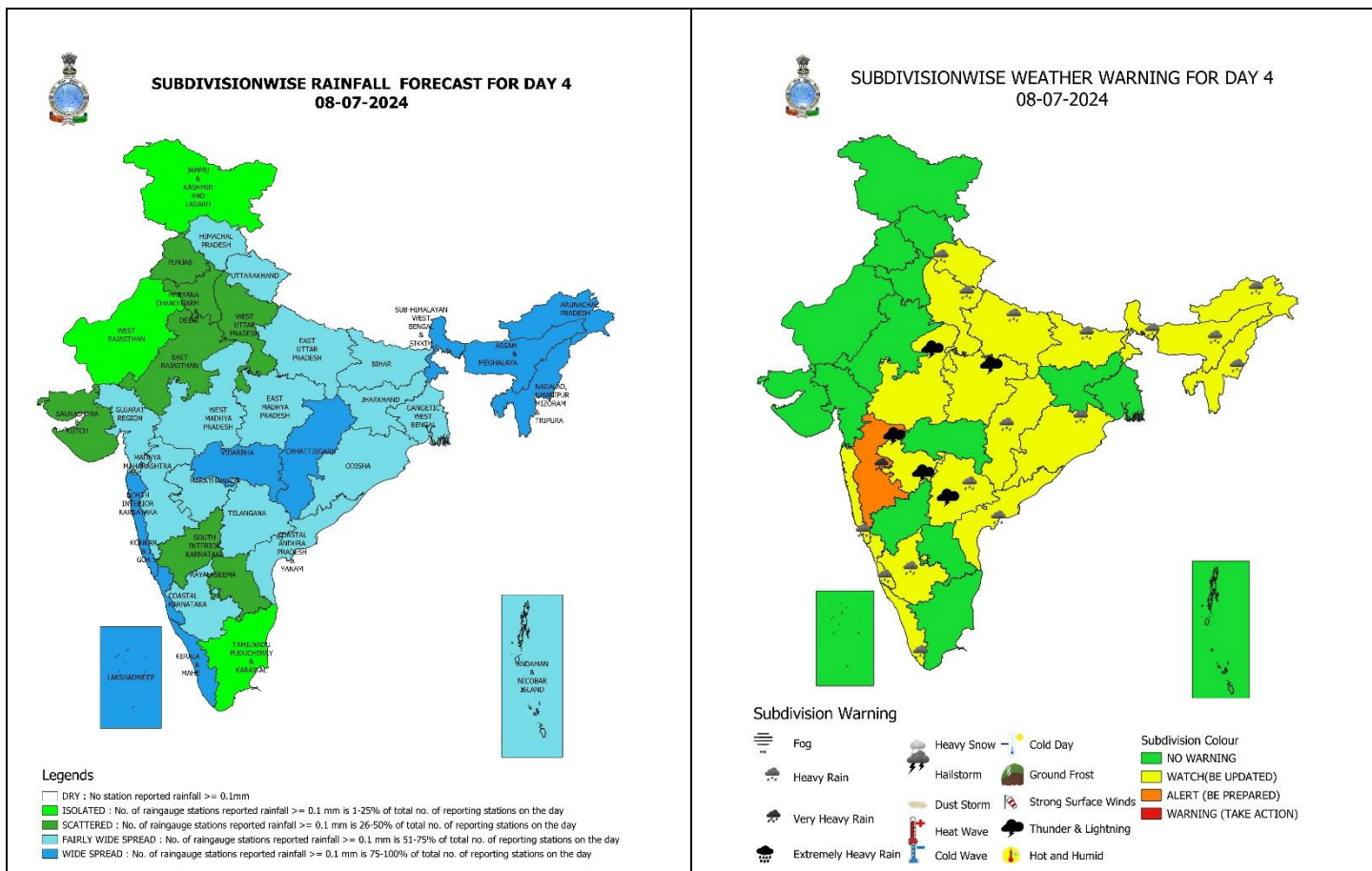
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Uttarakhand, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Coastal & South Interior Karnataka; **Heavy rainfall** at isolated places over Jammu Division, Himachal Pradesh, Punjab, Haryana, Chandigarh, East Rajasthan, Bihar, Odisha and Kerala & Mahe.
- ❖ **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, Madhya Maharashtra, 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, 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.

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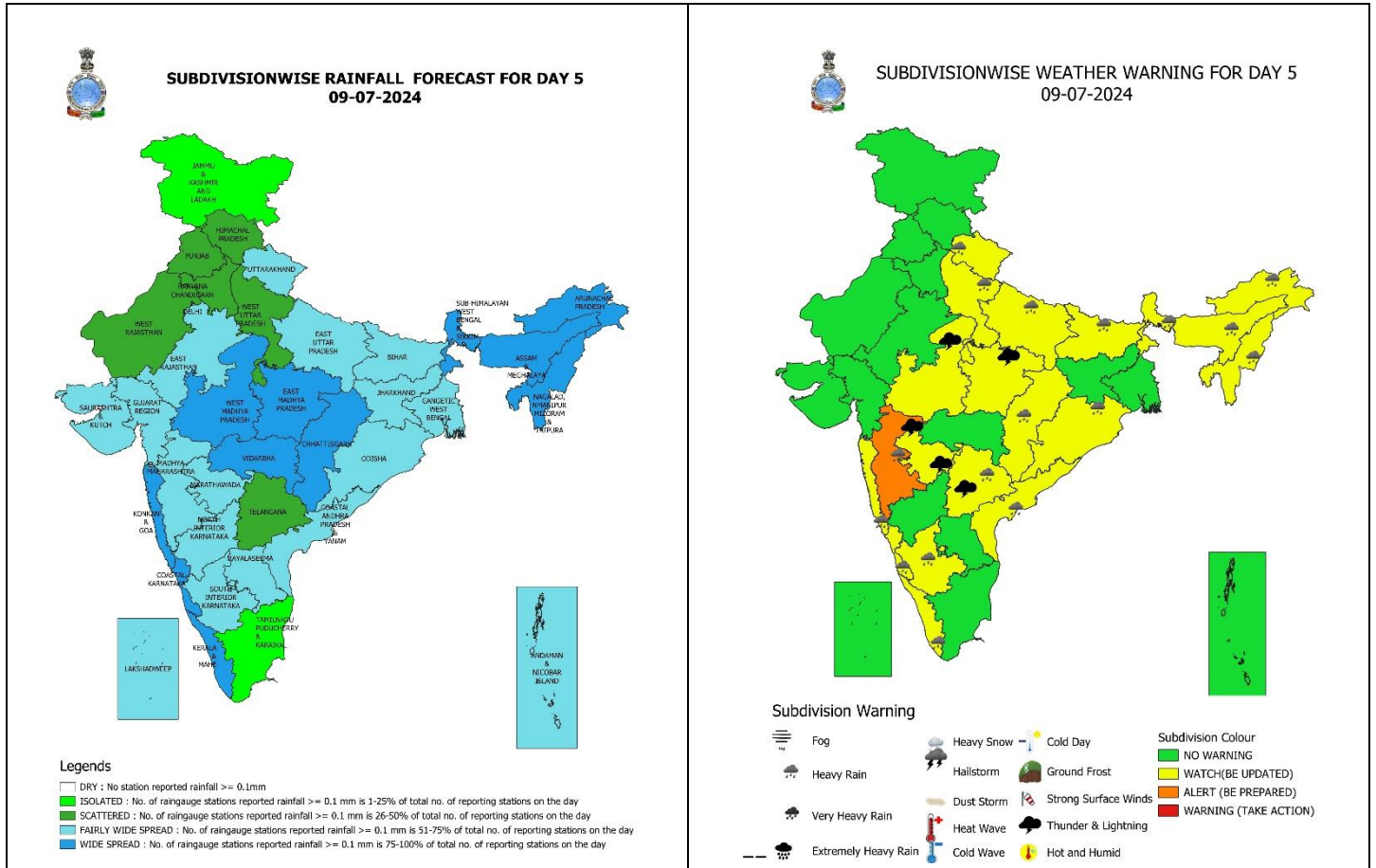
07 July (Day 3):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Uttarakhand, Odisha, Assam & Meghalaya, Madhya Maharashtra, Coastal & South Interior Karnataka; **Heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Uttar Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Madhya Pradesh, Telangana and **with lightning** 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, 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; 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.



08 July (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Madhya Maharashtra; **Heavy rainfall** at isolated places over Uttarakhand, Uttar Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Madhya Pradesh, Telangana and **with lightning** 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 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.

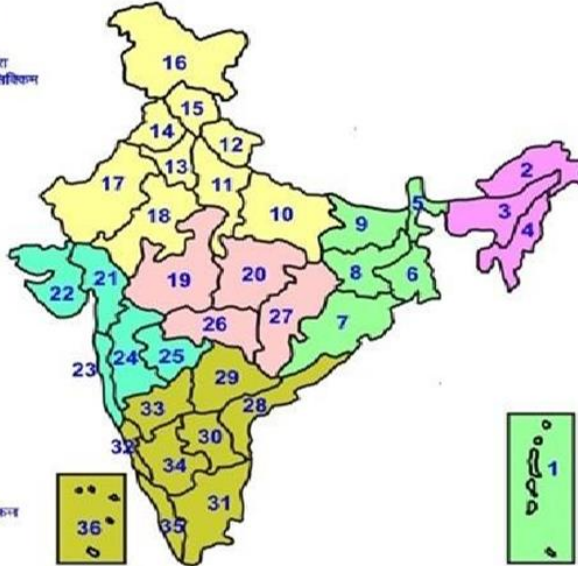


09 July (Day 5):

- ❖ **Heavy rainfall** likely at isolated places over Uttarakhand, Uttar Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Madhya Pradesh, Telangana and **with lightning** 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 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.

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 क्षेत्र
- 22 सोराष्ट्र एवं कच्छ
- 23 कोकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 महाराष्ट्र
- 26 विदर्भ
- 27 उत्तरीसमूह, पुदुचेरी एवं कराईकल
- 28 तटीय आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तमिलनाडु
- 31 पश्चिमी तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 उत्तरी कर्नाटक
- 33 अंतर्देशीय उत्तरी कर्नाटक
- 34 अंतर्देशीय दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



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

SPATIAL DISTRIBUTION (% of Stations reporting)

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

WARNING

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

Probabilistic Forecast

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

LEGENDS

WARNING

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

Probabilistic Forecast

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



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



Heat Wave

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

Heat Wave: Maximum Temperature Departure from normal 4.5°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)