

Saturday, August 3, 2024
Time of Issue: 0830 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems

- ✓ The **depression** over north Jharkhand and neighbourhood moved westwards with a speed of 5 kmph during past 6 hours, and lay centered at 0530 hours IST of today, the 3rd August over the same region near latitude 24.2°N and longitude 84.6°E, about 70 km south-southwest of Gaya (Bihar) and 60 km east-northeast of Daltonganj (Jharkhand). It is likely to move west-northwestwards across northwest Jharkhand, southeast Uttar Pradesh, east Madhya Pradesh and adjoining north Chhattisgarh during next 48 hours.
- ✓ The **Monsoon trough** is active and near of its normal position at mean sea level. It is likely to persist near its normal position during next 3-4 days.
- ✓ An east-west **trough** runs from northeast Rajasthan to south Assam in lower & middle tropospheric levels.
- ✓ The **off-shore trough** at mean sea level runs along South Gujarat to Kerala coast.

Forecast & Warnings:

❖ East & Northeast India

- ✓ Fairly widespread to widespread light to moderate rainfall **accompanied with thunderstorm, lightning** very likely over East & Northeast India during next 5 days.
- ✓ **Isolated extremely heavy rainfall very likely over northwest Jharkhand on 03rd August.**
- ✓ **Heavy to very heavy rainfall very likely at isolated places over remaining Jharkhand on 03rd; Sub-Himalayan West Bengal & Sikkim, Bihar during 03rd - 06th; Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 03rd-06th August.**
- ✓ **Very heavy rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya on 07th & 08th;
- ✓ **Isolated heavy rainfall** very likely over Gangetic West Bengal on 07th & 08th; Jharkhand on 03rd, 07th & 08th; Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Bihar on 07th & 08th August.

❖ West & Central India

- ✓ Fairly widespread to widespread light to moderate rainfall **accompanied with thunderstorm & lightning** very likely over the region during next 5 days.
- ✓ **Isolated extremely heavy rainfall very likely over East Madhya Pradesh, north Chhattisgarh, Madhya Maharashtra on 03rd; West Madhya Pradesh on 03rd & 04th; Gujarat Region, Konkan & Goa on 03rd August.**
- ✓ **Heavy to very heavy rainfall very likely at isolated places over West Madhya Pradesh during 03rd-05th; Chhattisgarh on 03rd; Konkan & Goa on 03rd - 04th; Madhya Maharashtra during 03rd - 06th; Gujarat State, East Madhya Pradesh on 03rd & 04th August.**
- ✓ **Heavy rainfall** very likely at isolated places over Vidarbha on 03rd; East Madhya Pradesh, Chhattisgarh on 07th & 08th; Marathwada on 03rd & 04th; Konkan & Goa during 05th - 07th August.

❖ Northwest India

- ✓ Fairly widespread to widespread light to moderate rainfall **accompanied with thunderstorm & lightning** very likely over Jammu-Kashmir, Himachal Pradesh, Uttarakhand; scattered to fairly widespread rainfall over Uttar Pradesh and Rajasthan; isolated to scattered rainfall over Punjab, Haryana-Chandigarh-Delhi during the week.
- ✓ **Isolated extremely heavy rainfall very likely over southeast Uttar Pradesh on 03rd; East Rajasthan on 04th August.**
- ✓ **Isolated very heavy rainfall also likely over East Rajasthan on 03rd Uttarakhand on 03rd & 08th; West Rajasthan on 05th August.**
- ✓ **Isolated heavy rainfall** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh during 03rd - 08th; Punjab during 04th - 08th; Haryana-Chandigarh during 06th - 08th; Rajasthan during 03rd - 06th August.

❖ South Peninsular India:

- ✓ Fairly widespread to widespread light to moderate rainfall over Coastal Karnataka, Lakshadweep and Kerala & Mahe, Karnataka and isolated to scattered rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema during next 5 days.
- ✓ **Very heavy rainfall very likely at isolated places over Coastal Karnataka on 03rd - 04th August.**
- ✓ **Heavy rainfall** very likely at isolated places over Kerala & Mahe on 03rd & 04th; Coastal Karnataka during 05th -07th; North Interior Karnataka on 03rd; South Interior Karnataka on 03rd & 04th August.

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

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Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over West Bengal & Sikkim; **at a few places** over Assam & Meghalaya, Jharkhand, Chhattisgarh, Madhya Pradesh, West Rajasthan, Gujarat state, Madhya Maharashtra, Coastal & South Interior Karnataka, Odisha and Kerala & Mahe and **at isolated places** over Bihar, Uttar Pradesh, Haryana-Chandigarh-Delhi, Himachal Pradesh, East Rajasthan, Marathwada, North Interior Karnataka, Telangana and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Gangetic West Bengal, Jharkhand and West Madhya Pradesh.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **Assam & Meghalaya:** Cherrapunji - 5, Golpara-2; **Nagaland, Manipur, Mizoram & Tripura:** Kailashahar-1; **Sub-Himalayan West Bengal & Sikkim:** Malda-5. **Bihar:** Bhagalpur-4, Dehri-1, Gaya-1; **Jharkhand:** Ranchi-9; **Gangetic West Bengal:** Berhampore-4, Asansol-7, Purulia-4, Panagarh-2, Bankura, Sri Nikethan & Kolkata-1 each; **Haryana:** Ambala-3, Chandigarh-1; **Chhattisgarh:** Ambikapur-1; **East Madhya Pradesh:** Malanjkhanda-1; **West Madhya Pradesh:** Panchamarhi-2, Raisen-7, Housangabad-1, Bhopal-3; Ratlam-2, Ujjain, Dhar, Betul-1 each; **West Rajasthan:** Bikaner & Jodhpur-1 each; **East Rajasthan:** Ajmer-1; **Saurashtra & Kutch:** Diu-1; **Gujarat Region:** Daman-2; **Madhya Maharashtra:** Jalgaon-2, Mahabaleshwar-3, Pune-1; **Konkan & Goa:** Kolhapur & Mathern -2 each, Ratnagiri, TBIA & Harnai-1 each; **Coastal Karnataka:** Karwar-3, Honavar-2, Shirala, Manglore-1 each; **North Interior Karnataka:** Belgaum-1; **Kerala & Mahe:** Kannur-4, Karipur-2, Palakkad & Kochi-1 each.
- ❖ **Minimum Temperature Departures (as on 02-08-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Vidarbha; **above normal (1.6°C to 3.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, West Rajasthan, Punjab, Uttarakhand, Arunachal Pradesh, Gangetic West Bengal, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal Nagaland, Manipur, Mizoram & Tripura and Marathwada. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Haryana-Chandigarh-Delhi East Rajasthan, East Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 20.4°C was reported at **Durg (Chhattisgarh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 02-08-2024):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh; at isolated places over Punjab, Uttarakhand, Uttar Pradesh, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. These were **markedly below normal (-5.1°C or less)** at a few places over West Rajasthan; at isolated places Nagaland, Manipur, Mizoram & Tripura; **below normal (-1.6°C to -3.0°C)** at most places over Sub-Himalayan West Bengal & Sikkim; at many places over East Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand and Assam & Meghalaya; at a few places over Vidarbha and Gujarat Region; at isolated places over Bihar, Odisha, Saurashtra & Kutch, Telangana and Haryana-Chandigarh-Delhi and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature** of 36.0°C was reported at **Bulandshahr (West Uttar Pradesh)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **depression** over north Jharkhand and neighbourhood moved westwards with a speed of 5 kmph during past 6 hours, and lay centered at 0530 hours IST of today, the 3rd August over the same region near latitude 24.2°N and longitude 84.6°E, about 70 km south-southwest of Gaya (Bihar) and 60 km east-northeast of Daltonganj (Jharkhand). It is likely to move west-northwestwards across northwest Jharkhand, southeast Uttar Pradesh, east Madhya Pradesh and adjoining north Chhattisgarh during next 48 hours.
- ❖ The **Monsoon trough** at mean sea level now passes through Bikaner, Jaipur, Satna, Center of Depression over north Jharkhand & neighbourhood, Bānkurā, Canning thence southeastwards to northeast Bay of Bengal.
- ❖ The east-west **trough** now runs from north Rajasthan to south Assam across north Madhya Pradesh, cyclonic circulation associated with depression over north Jharkhand, Sub-Himalayan West Bengal between 0.9 km to 4.5 km above mean sea level.
- ❖ The **cyclonic circulation** over Nagaland and neighbourhood at 0.9 km above mean sea level persists.
- ❖ The **off-shore trough** at mean sea level along South Gujarat to Kerala coast persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 10th August, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Thunderstorm/lightning likely at isolated places over Western Himalayan Region, Northeast, West and South Peninsular India for next 3-4 days.
- ❖ No significant change in maximum temperatures very likely over most parts of the country.

Weather Outlook for subsequent 3 days (During 10th August - 12th August, 2024)

- ❖ Fairly widespread to widespread rainfall likely over most parts of the country except Tamil Nadu, Puducherry & Karaikal and Rayalaseema where isolated to scattered rainfall likely.

Table-1

7 Days Rainfall Forecast								
S. No.	Subdivision	03-Aug	04-Aug	05-Aug	06-Aug	07-Aug	08-Aug	09-Aug
		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	FWS	FWS	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	FWS	FWS	FWS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	WS	WS	FWS	FWS
6	GANGETIC WEST BENGAL	FWS	FWS	WS	WS	WS	WS	WS
7	ODISHA	FWS	SCT	SCT	FWS	FWS	FWS	FWS
8	JHARKHAND	FWS	FWS	FWS	WS	WS	WS	WS
9	BIHAR	WS	FWS	FWS	FWS	FWS	FWS	FWS
10	EAST UTTAR PRADESH	SCT	SCT	SCT	FWS	WS	FWS	FWS
11	WEST UTTAR PRADESH	SCT	SCT	SCT	FWS	WS	FWS	FWS
12	UTTARAKHAND	WS	FWS	FWS	FWS	WS	WS	WS
13	HARYANA CHANDIGARH & DELHI	SCT	ISOL	SCT	SCT	FWS	SCT	SCT
14	PUNJAB	SCT	SCT	SCT	SCT	FWS	SCT	SCT
15	HIMACHAL PRADESH	WS	WS	FWS	FWS	WS	WS	WS
16	JAMMU & KASHMIR AND LADAKH	WS	WS	WS	FWS	SCT	SCT	SCT
17	WEST RAJASTHAN	SCT	FWS	FWS	FWS	FWS	ISOL	ISOL
18	EAST RAJASTHAN	FWS	WS	FWS	FWS	FWS	SCT	SCT
19	WEST MADHYA PRADESH	WS	WS	FWS	FWS	FWS	FWS	FWS
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	FWS	FWS	FWS	SCT	SCT	SCT
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	WS	WS	FWS	SCT	SCT	SCT	SCT
25	MARATHAWADA	FWS	FWS	SCT	ISOL	SCT	SCT	SCT
26	VIDARBHA	WS	WS	FWS	FWS	FWS	FWS	FWS
27	CHHATTISGARH	WS	FWS	FWS	FWS	FWS	FWS	FWS
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	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	SCT	SCT	SCT	SCT	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	FWS	FWS	FWS	WS	WS	WS	WS
34	SOUTH INTERIOR KARNATAKA	SCT	FWS	FWS	WS	WS	WS	WS
35	KERALA & MAHE	WS	WS	FWS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	WS	FWS	FWS	SCT	SCT	SCT	SCT

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

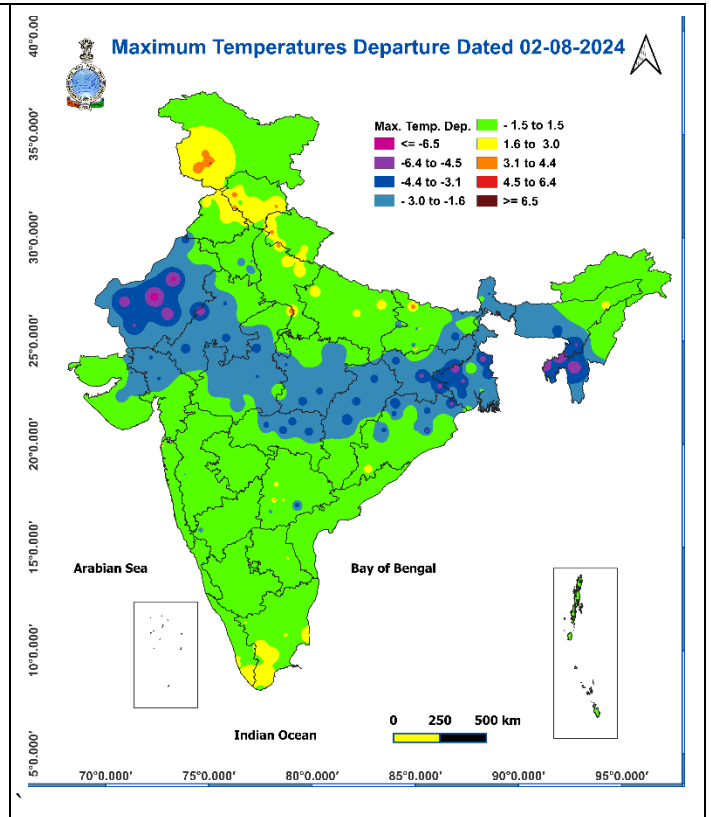
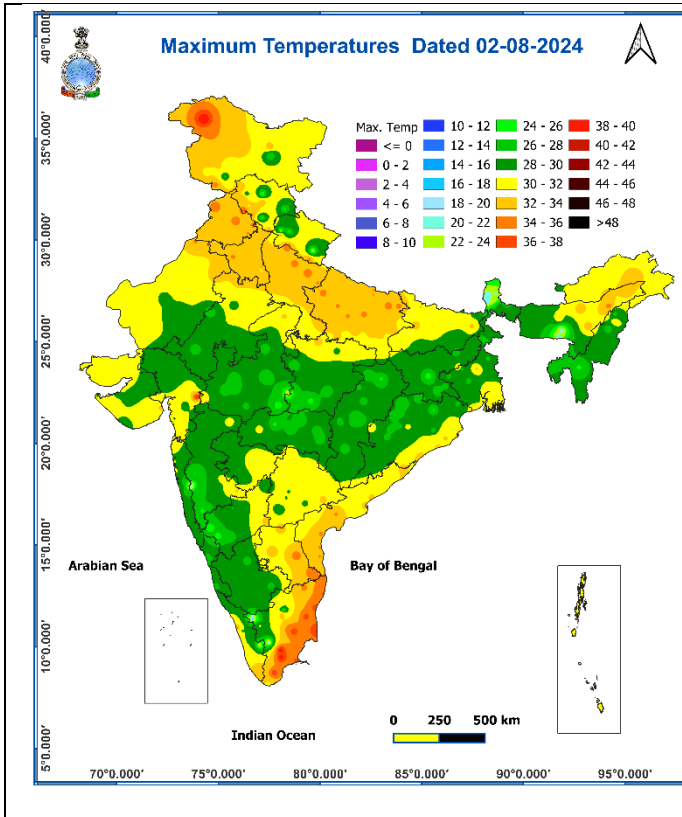
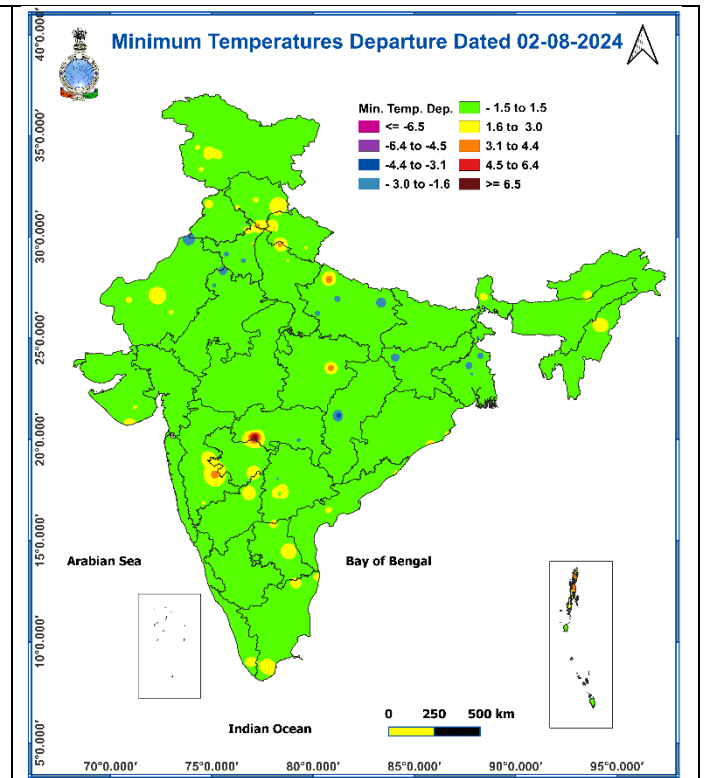
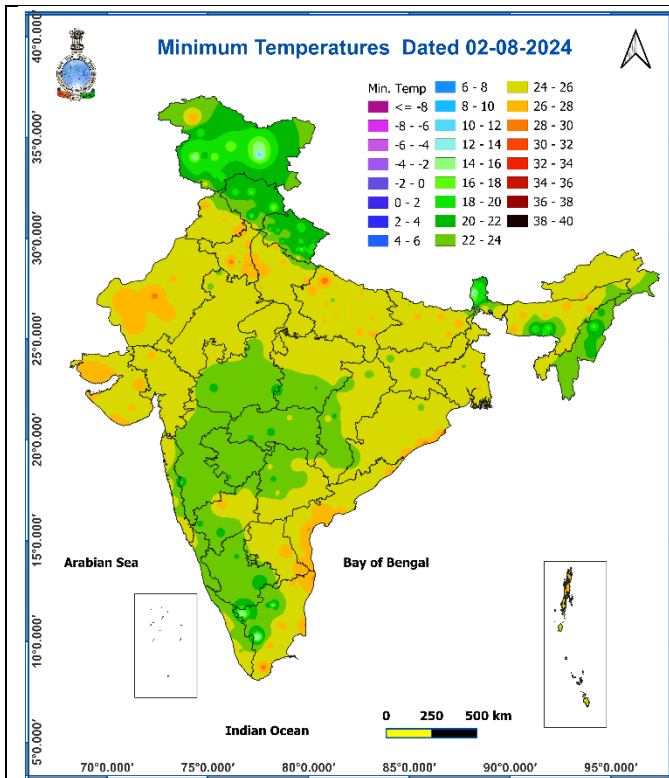


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

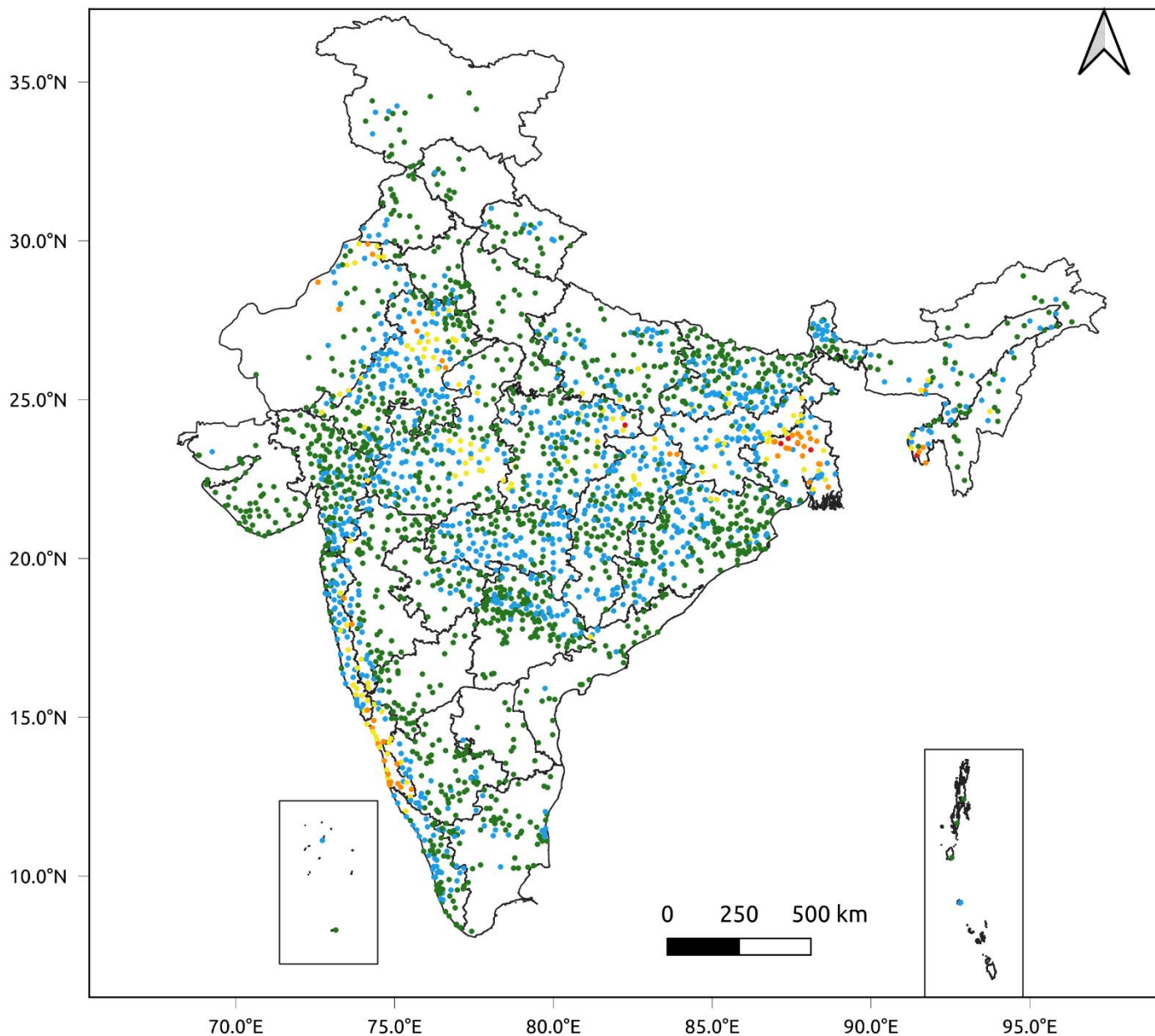


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Fig. 5: Accumulated Rainfall (mm) during past 24 hours

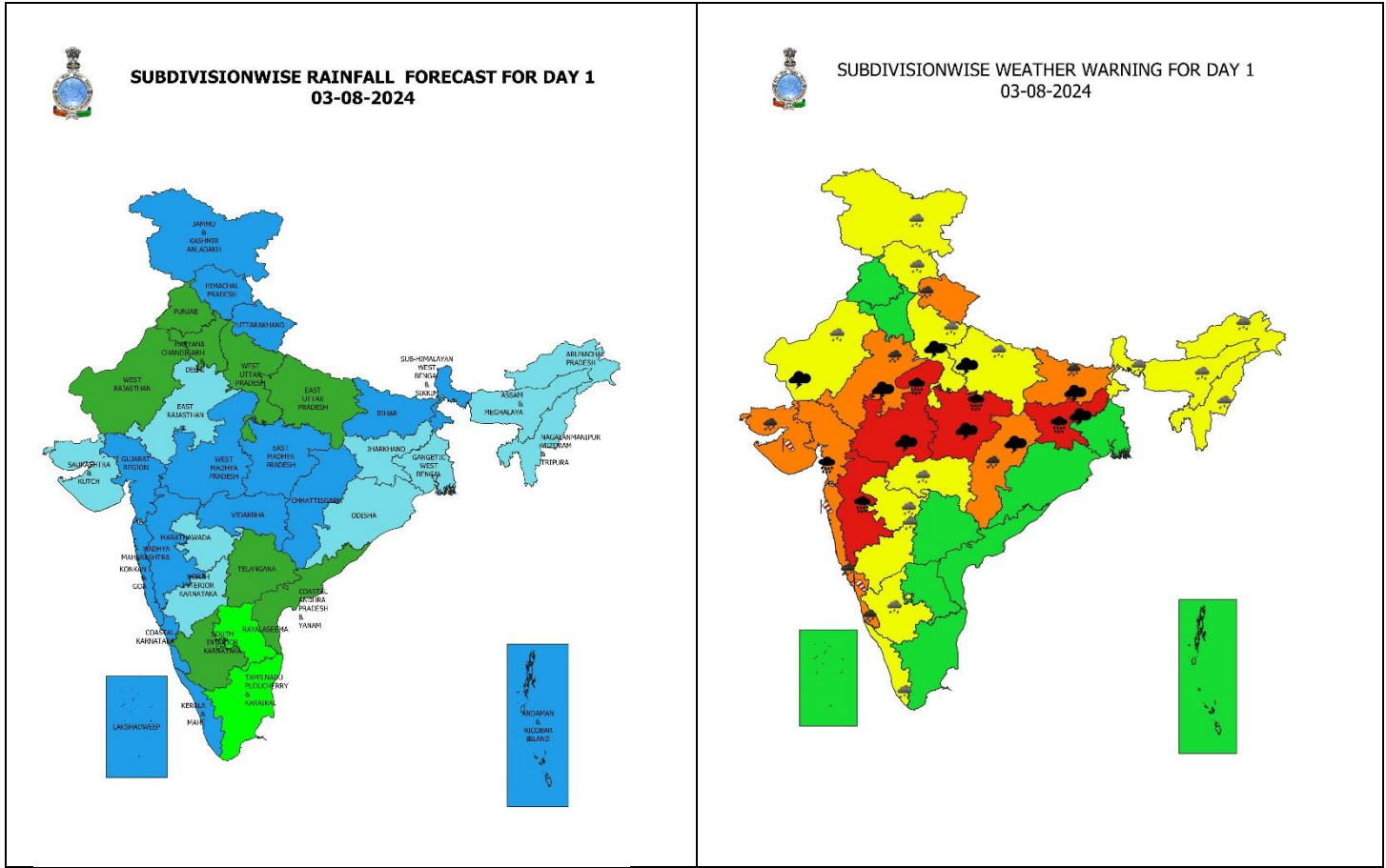


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 1-8-2024 to 0830 IST of 2-8-2024



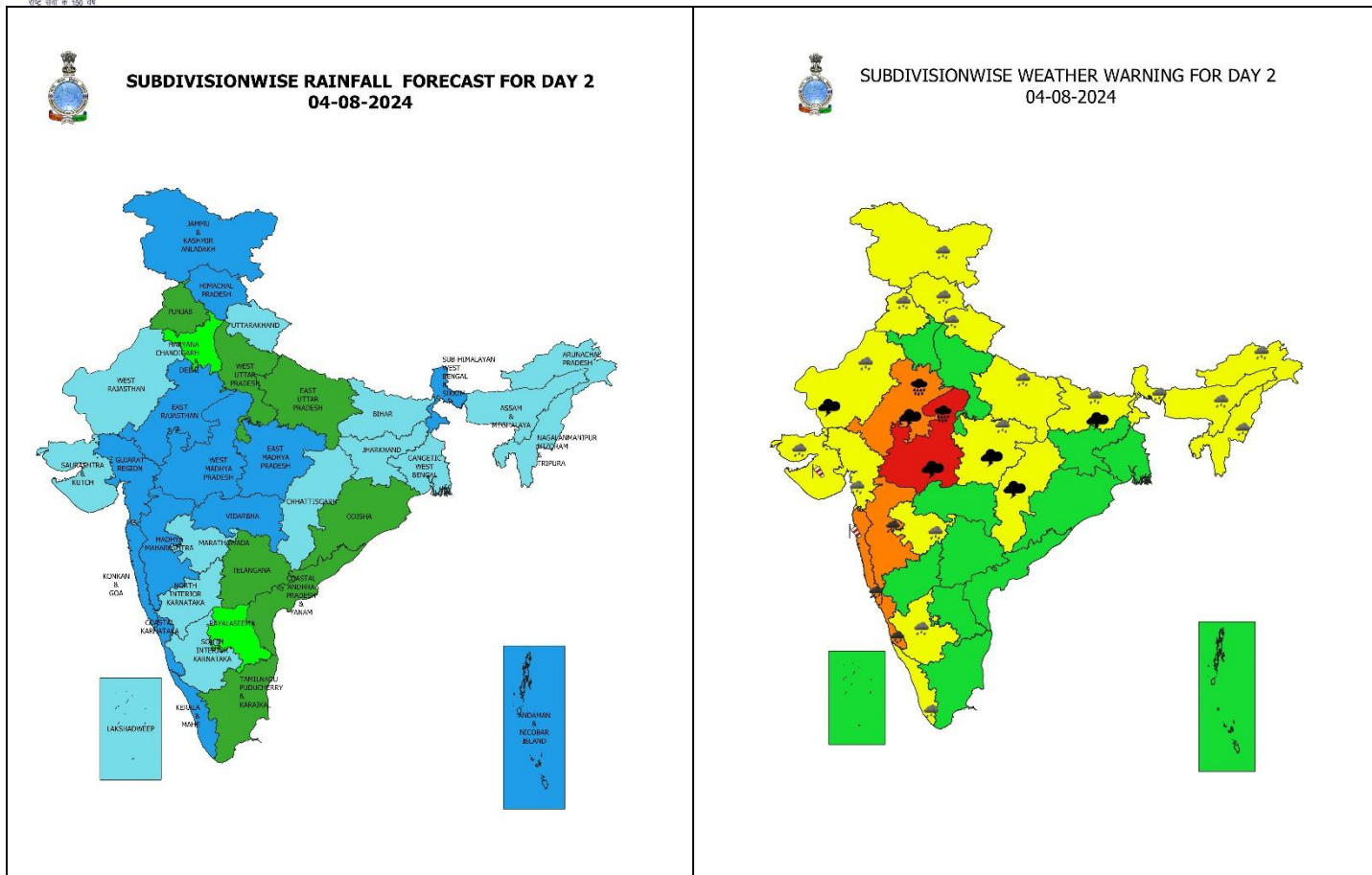
Legends

- 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)



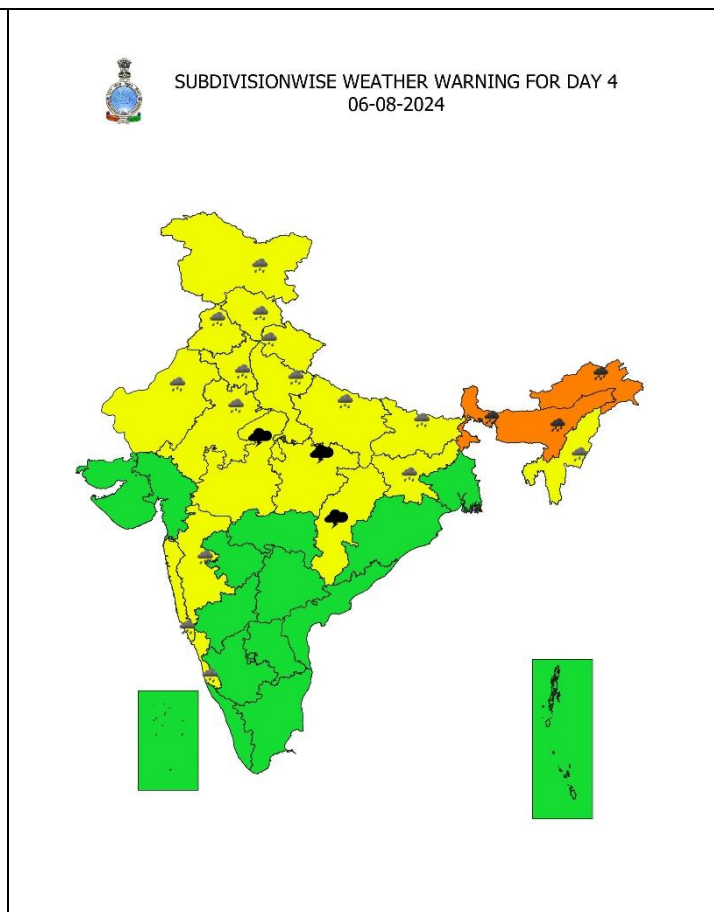
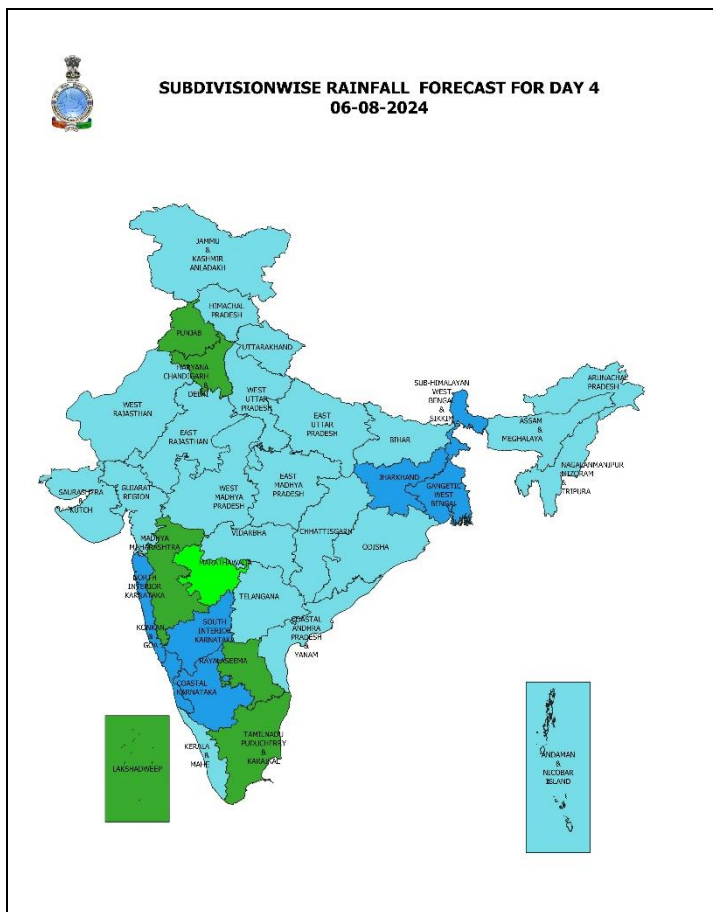
03 August (Day 1):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls (> 20 cm)** very likely at isolated places over southeast Uttar Pradesh, north Chhattisgarh, Madhya Pradesh, north Jharkhand, Madhya Maharashtra and Gujarat Region; **Heavy to very heavy rainfall (≥ 12 cm)** at isolated places over Uttarakhand, East Rajasthan, remaining Chhattisgarh, Bihar, Saurashtra & Kutch, Konkan & Goa, Coastal Karnataka; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir, Himachal Pradesh, remaining Uttar Pradesh, West Rajasthan, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Kerala & Mahe, Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttar Pradesh, Madhya Pradesh, Rajasthan, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand and Bihar.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northeast and adjoining northwest Arabian sea, most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, along and off south Maharashtra, coast, Konkan and goa Karnataka, gulf of Mannar, off Sri Lanka coast, over many parts of southwest Bay of Bengal & few parts of southeast Bay of Bengal, most parts of central Bay of Bengal and many parts of north Bay of Bengal. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat, north Maharashtra coasts, over few parts over westcentral Bay of Bengal. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.



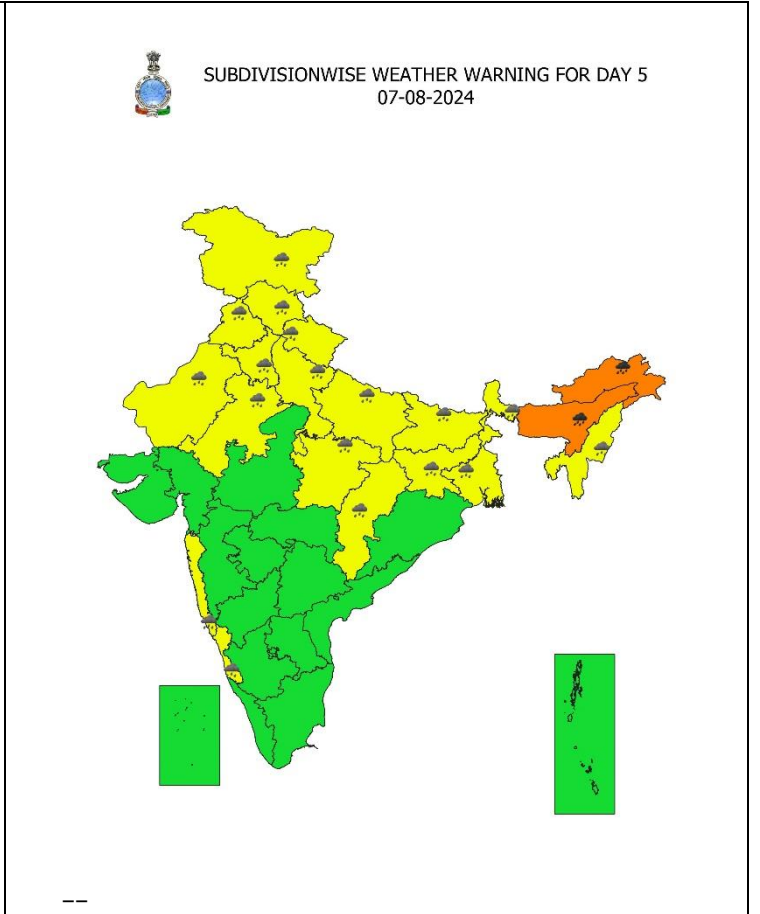
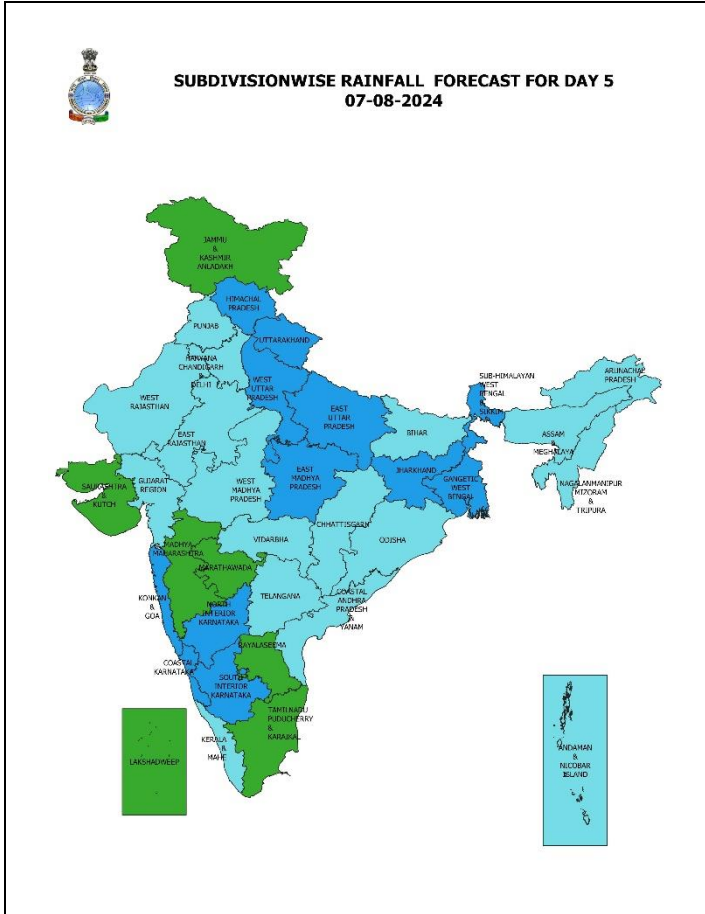
04 August (Day 2):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls (> 20 cm)** very likely at isolated places over East Rajasthan, West Madhya Pradesh; **Heavy to very heavy rainfall (≥ 12 cm)** at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal Karnataka; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Gujarat state, Kerala & Mahe, South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Rajasthan, Bihar, Madhya Pradesh, Chhattisgarh.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northeast and adjoining northwest Arabian sea, most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, along and off south Maharashtra, coast, gulf of Mannar, off Sri Lanka coast, over few parts of south Bay of Bengal & many parts of central Bay of Bengal. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat, Maharashtra coasts adjoining northeast and east central Arabian sea. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.



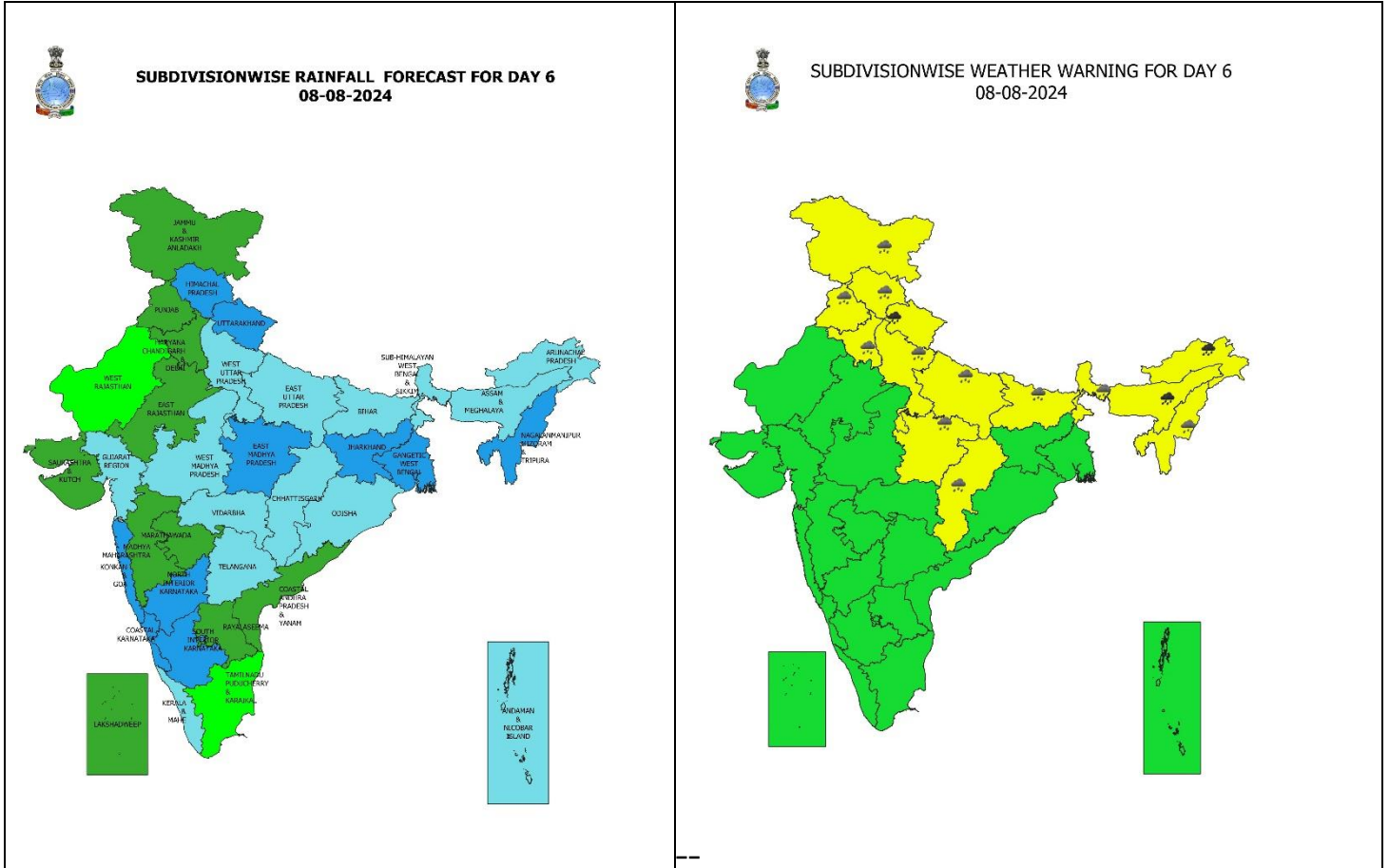
06 August (Day 4):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya; **Heavy rainfall (≥ 7 cm) at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Haryana-Chandigarh, Rajasthan, Gangetic West Bengal, Bihar, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Madhya Pradesh, Chhattisgarh, Rajasthan.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over east central Arabian sea adjoining westcentral Arabian sea. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.



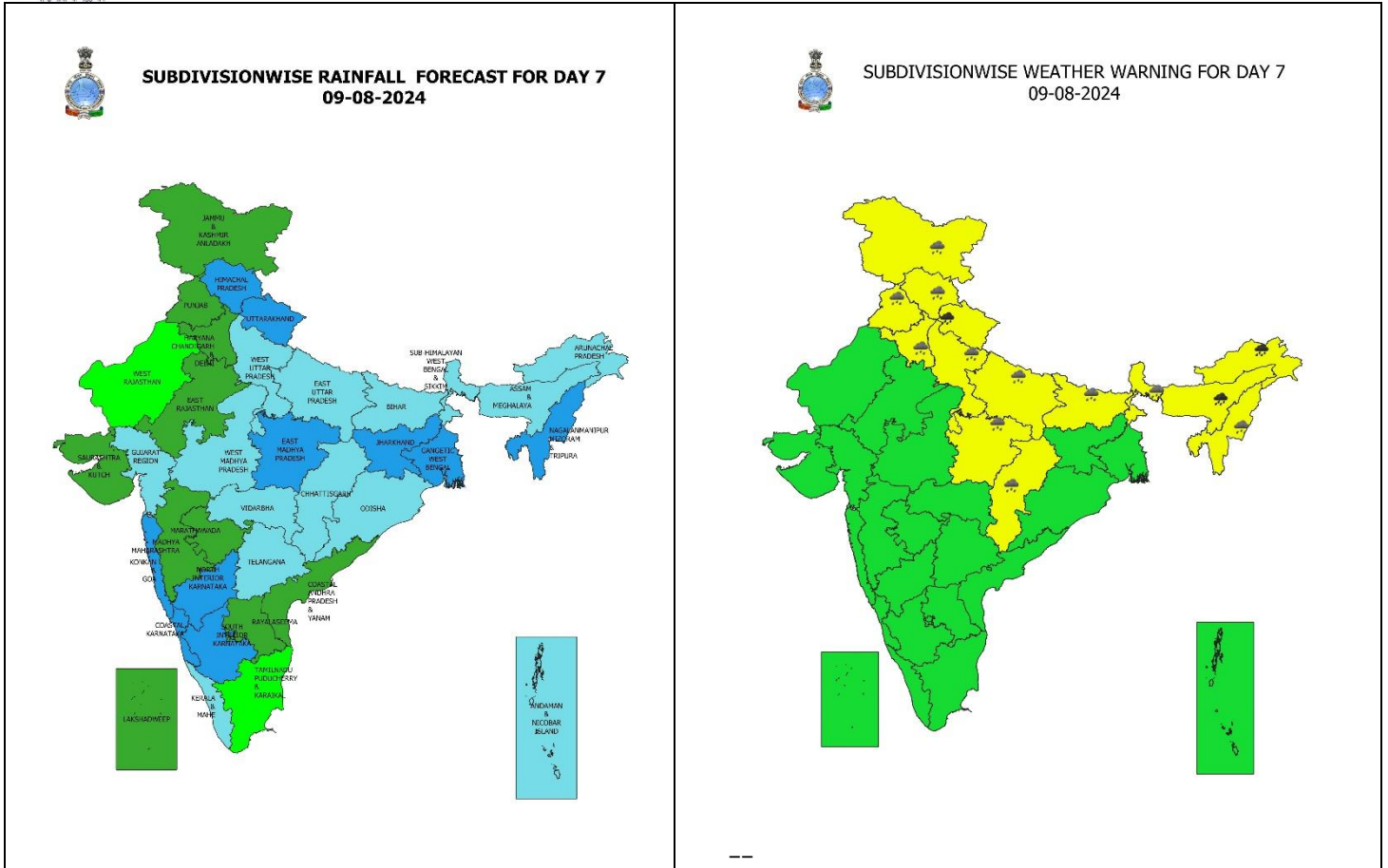
07 August (Day 5):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh, Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Karnataka.



08 August (Day 6):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Uttarakhand; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir, Himachal Pradesh, Punjab, Haryana-Chandigarh, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Nagaland, Manipur, Mizoram & Tripura.



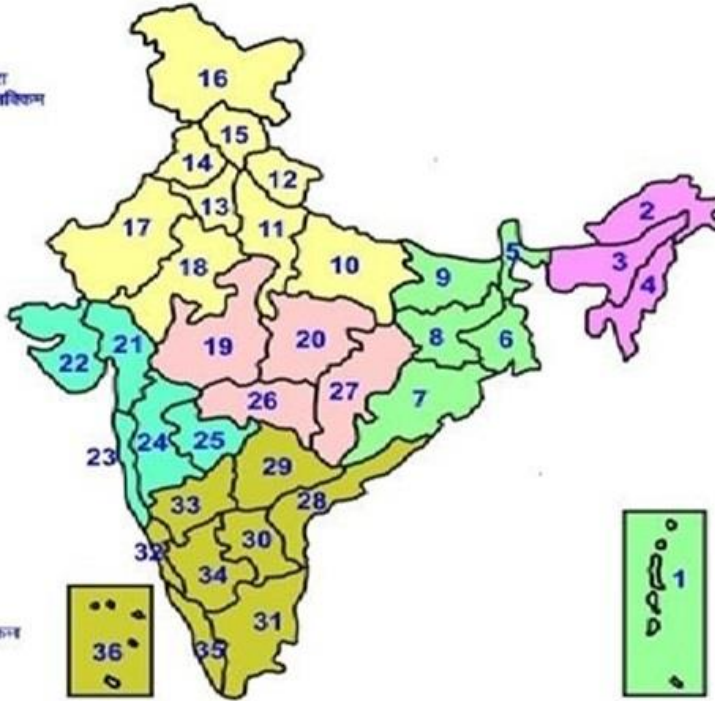
09 August (Day 7):

❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Uttarakhand; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir, Himachal Pradesh, Punjab, Haryana-Chandigarh, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Nagaland, Manipur, Mizoram & Tripura.

- Action may be taken based on **ORANGE AND RED COLOUR** warnings.
- **Vulnerable regions likely urban and hilly areas** action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

LEGENDS

- 1 अंडमन 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 क्षेत्र
- 22 सोलापुर एवं कच्छ
- 23 कोकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 उत्तरीसंगम
- 28 उत्तरी आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 दायलखीबा
- 31 तमिऴनाडु, पुदुचेरी एवं कराईकल
- 32 उत्तरी कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
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)

	Fog		Heavy Snow		Cold Day	Subdivision Colour
	Heavy Rain		Hailstorm		Ground Frost	NO WARNING
	Very Heavy Rain		Dust Storm		Strong Surface Winds	WATCH(BE UPDATED)
	Extremely Heavy Rain		Heat Wave		Thunder & Lightning	ALERT(BE PREPARED TO TAKE ACTION)
			Cold Wave		Hot and Humid	WARNING (TAKE ACTION)

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)