

Wednesday, July 3, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Advance of Southwest Monsoon:

- ❖ The Monsoon trough at mean sea level passes through Firozpur, Rohtak, Hardoi, Ballia, Balurghat, Kailashahar and thence eastwards to Manipur.

Weather Systems and Forecast & Warnings:

- ❖ A cyclonic circulation lies over southeast Pakistan and monsoon trough is north of its normal position at mean sea level. 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 during 04th-07th, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Rajasthan during 03rd-07th; West Rajasthan on 03rd; Madhya Pradesh during 03rd - 04th July and Chhattisgarh on 03rd July.
 - **Isolated very heavy rainfall likely over Uttarakhand during 03rd - 07th, Punjab on 03rd, Haryana on 03rd July; West Uttar Pradesh on 06th & 07th; East Uttar Pradesh during 05th - 07th July.**
- ❖ A cyclonic circulation lies over north Bangladesh, another over Assam and a trough runs from northeast Madhya Pradesh to the cyclonic circulation over 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, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura during 03rd-07th; Andaman & Nicobar Islands on 04th & 05th; Gangetic West Bengal on 03rd & 04th, Jharkhand on 03rd & 04th; Odisha on 06th & 07th July.
 - **Isolated very heavy rainfall likely over Bihar on 03rd; Arunachal Pradesh & Assam & Meghalaya during 03rd - 04th; Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura during 03rd -05th July.**
 - **Isolated extremely heavy rainfall very likely over Arunachal Pradesh & Assam & Meghalaya during 05th-07th July.**
- ❖ A cyclonic circulation lies over north Gujarat & neighbourhood in middle tropospheric levels tilting southwards with height. 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 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, Madhya Maharashtra, Kerala & Mahe, Coastal & South Interior Karnataka during 03rd-07th; Saurashtra & Kutch on 03rd; Gujarat Region during 03rd- 05th, July.
 - **Isolated very heavy rainfall very likely over Konkan & Goa, Madhya Maharashtra on 06th & 07th; Gujarat Region on 03rd; Coastal Karnataka during 05th-07th July.**

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places over** Bihar, Vidarbha, Madhya Maharashtra, Kerala & Mahe, Konkan & Goa; **at a few places over** Uttar Pradesh, Bengal State, Arunachal Pradesh, Odisha, Madhya Pradesh and **at isolated places over** Himachal Pradesh, Rajasthan, Gujarat State, Jharkhand, Marathwada.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Uttarakhand.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Uttarakhand:** Dehradun (Mokhampur) 10; **Himachal Pradesh** Dharmasala 4; **Uttar Pradesh** Bahraich 6; **Bihar** Gaya 5; **Gangetic West Bengal** Malda 5, Asansol 6; **Jharkhand** Ranchi 5; **Madhya Maharashtra** Satara 5, Mahabalsehwar 3.
- ❖ **Reported maximum wind speed (in kmph)** (from 0830 hours IST to 1730 hours IST of yesterday): **Himachal Pradesh:** Kullu 22, Kinnaur 26; **Rajasthan:** Bikaner 24, Jaisalmer 21; **Haryana:** Gurgaon 23; **Uttar Pradesh:** Mirzapur 21; **Gangetic West Bengal:** Hoogly 24, Durgapur 25; **Maharashtra:** Pune 28, Satara 29, Ahmadnagar 27, Yavatmal 29; **Gujarat State:** Gir Somnath 28, Ahmedabad 27, Amreli 24; **Telangana:** Daira 27, Rajendranagar 28; **Karnataka:** Gangavathi 29, Gadag 27.
- ❖ **Minimum Temperature Departures (as on 02-07-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Himachal Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Punjab; at many places over Haryana-Chandigarh-Delhi; at a few places over Uttarakhand, West Rajasthan; at isolated places over West Uttar Pradesh, Madhya Maharashtra, Sub-Himalayan West Bengal & Sikkim. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, East Madhya Pradesh, Gujarat state and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 18.2°C** was reported at **Bulsar (Gujarat Region)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 02-07-2024):** 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 an isolated places over Himachal Pradesh, Punjab, Kerala & Mahe & Rayalaseema. These were **markedly below normal (-5.1°C & below)** at an isolated places over Gujarat Region; **appreciably below normal (-3.1°C to -5.0°C)** at most places over East Uttar Pradesh; at a few places over West Uttar Pradesh, Bihar; at an isolated places over Jharkhand, Chhattisgarh, East Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at most places over West Madhya Pradesh, West Bengal & Sikkim; at a few places over Assam & Meghalaya, at an isolated places over Uttarakhand, West Rajasthan, Arunachal Pradesh, Vidarbha & Madhya Maharashtra, and **near normal** over rest parts of the country. Today, **the highest Maximum Temperature of 43.2°C** was reported at **Ganganagar (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Monsoon trough at mean sea level passes through Ferozpur, Rohtak, Hardoi, Ballia, Balurghat, Kailashahar and thence eastwards to Manipur.
- ❖ The cyclonic circulation over southeast Pakistan & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over north Bangladesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Assam & neighbourhood between 3.1 & 4.5 km above mean sea level persists.
- ❖ The trough from northeast Madhya Pradesh to the above cyclonic circulation over Assam at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over east Bihar & neighbourhood between 4.5 & 5.8 km above mean sea level persists.
- ❖ The trough from northwest Bihar to south Assam across Sub-Himalayan West Bengal at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over north Gujarat & neighbourhood extending upto 5.8 km above mean sea level tilting southwards with height persists.
- ❖ The off-shore trough at mean sea level along Maharashtra-Kerala coasts persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 10th 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 and Northeast 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 10th-12th July, 2024)

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

Table-1

7 Days Rainfall Forecast

S. No.	Subdivision	03-Jul	04-Jul	05-Jul	06-Jul	07-Jul	08-Jul	09-Jul
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	WS	WS	WS	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	FWS	FWS
6	GANGETIC WEST BENGAL	WS	WS	WS	WS	FWS	FWS	FWS
7	ODISHA	SCT	SCT	FWS	FWS	FWS	FWS	FWS
8	JHARKHAND	WS	WS	WS	FWS	FWS	FWS	FWS
9	BIHAR	WS	FWS	FWS	FWS	FWS	FWS	FWS
10	EAST UTTAR PRADESH	WS	WS	WS	FWS	FWS	FWS	FWS
11	WEST UTTAR PRADESH	WS	WS	FWS	FWS	SCT	SCT	SCT
12	UTTARAKHAND	WS	WS	WS	WS	WS	WS	WS
13	HARYANA CHANDIGARH & DELHI	WS	FWS	FWS	FWS	SCT	SCT	SCT
14	PUNJAB	WS	FWS	FWS	FWS	SCT	SCT	SCT
15	HIMACHAL PRADESH	FWS	FWS	WS	WS	FWS	FWS	FWS
16	JAMMU & KASHMIR AND LADAKH	SCT	WS	WS	WS	WS	WS	WS
17	WEST RAJASTHAN	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	FWS	WS	WS	FWS	FWS	FWS	FWS
19	WEST MADHYA PRADESH	WS	WS	WS	WS	FWS	FWS	FWS
20	EAST MADHYA PRADESH	WS	WS	WS	WS	WS	WS	WS
21	GUJARAT REGION	WS	WS	WS	WS	FWS	FWS	FWS
22	SAURASHTRA & KUTCH	FWS	FWS	WS	WS	FWS	FWS	FWS
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	SCT	SCT	FWS	FWS	FWS	FWS	FWS
25	MARATHAWADA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
26	VIDARBHA	FWS	FWS	FWS	FWS	WS	WS	WS
27	CHHATTISGARH	FWS	FWS	FWS	FWS	WS	WS	WS
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	SCT	FWS	FWS	FWS	FWS	FWS
29	TELANGANA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
30	RAYALASEEMA	ISOL	ISOL	ISOL	SCT	SCT	FWS	FWS
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	SCT	ISOL	ISOL	SCT	SCT	SCT
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	SCT	SCT	FWS	WS	WS	WS	WS
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	FWS	FWS	WS	WS	WS
35	KERALA & MAHE	FWS	FWS	FWS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	FWS	FWS	FWS	FWS	FWS	FWS	FWS

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

* 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)

Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

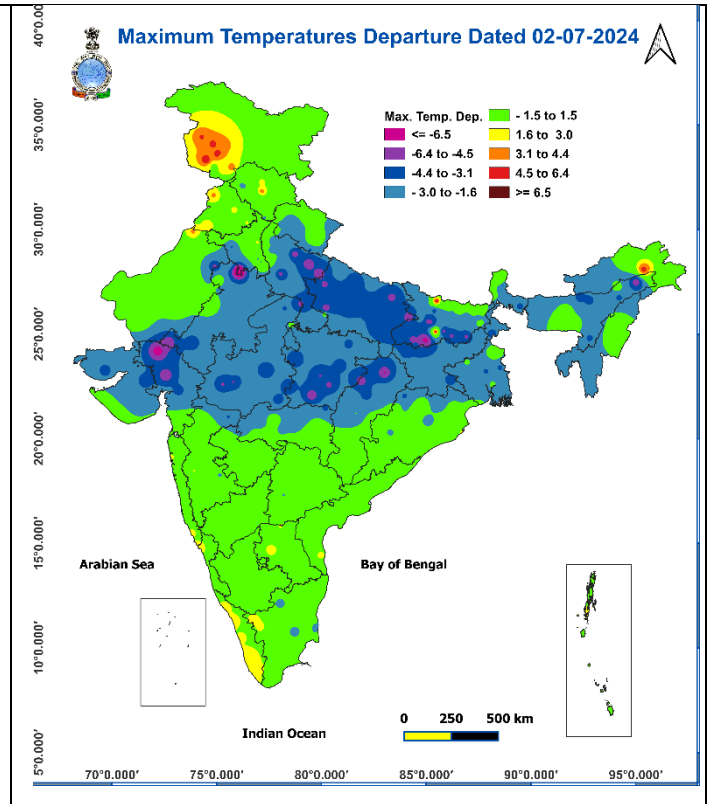
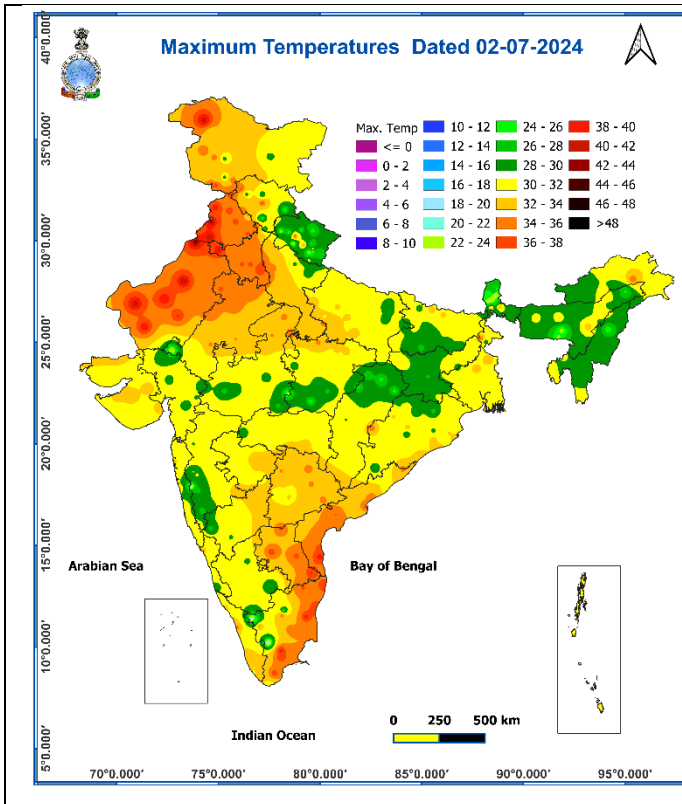


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

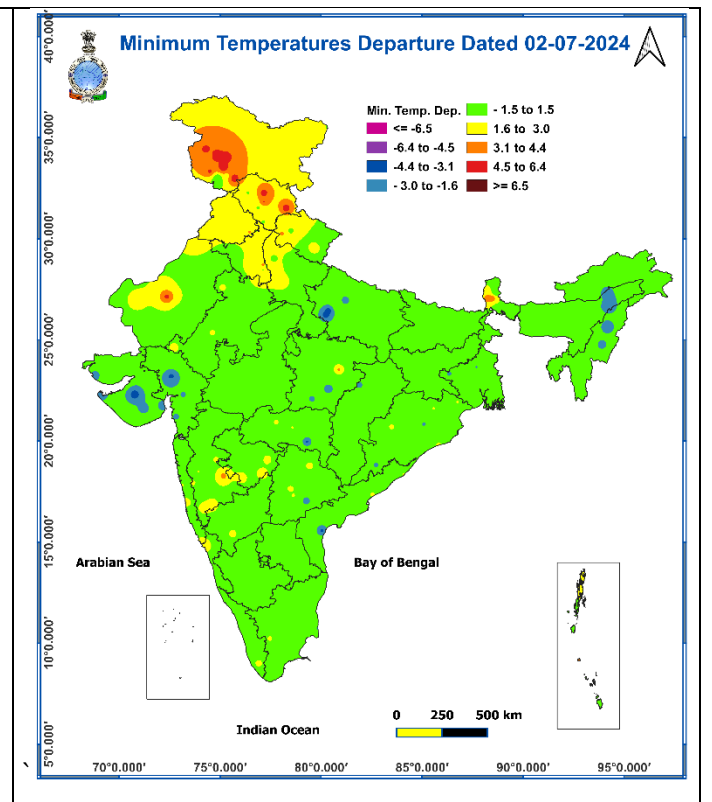
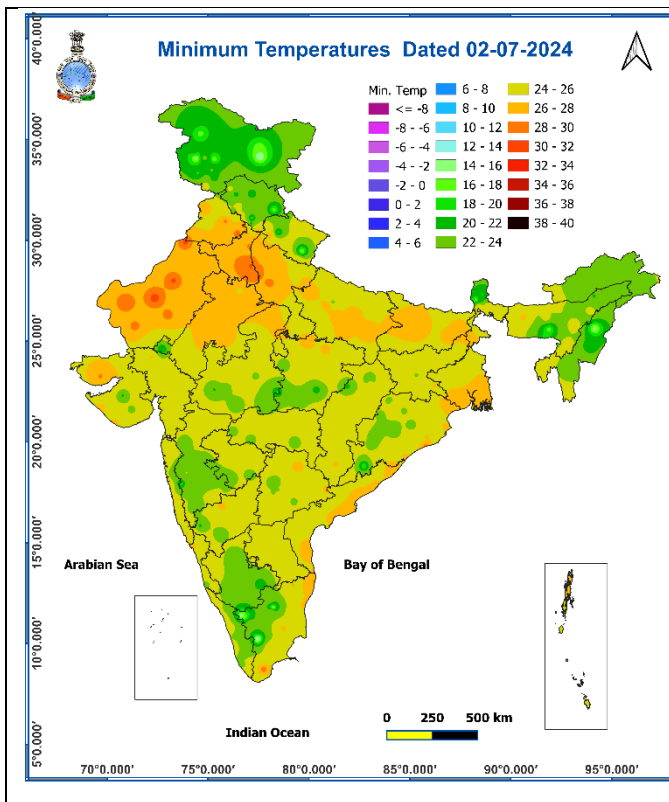
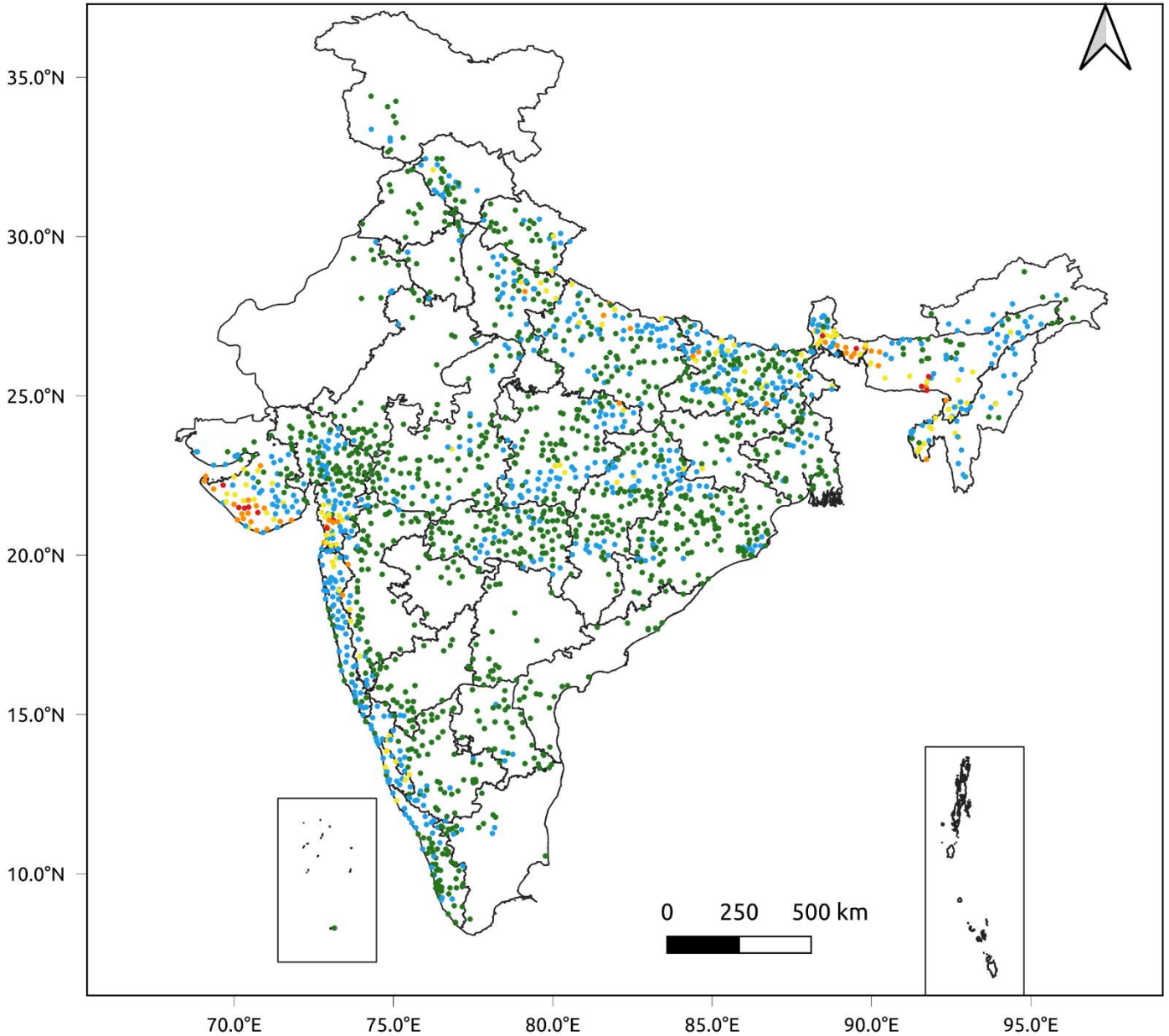


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



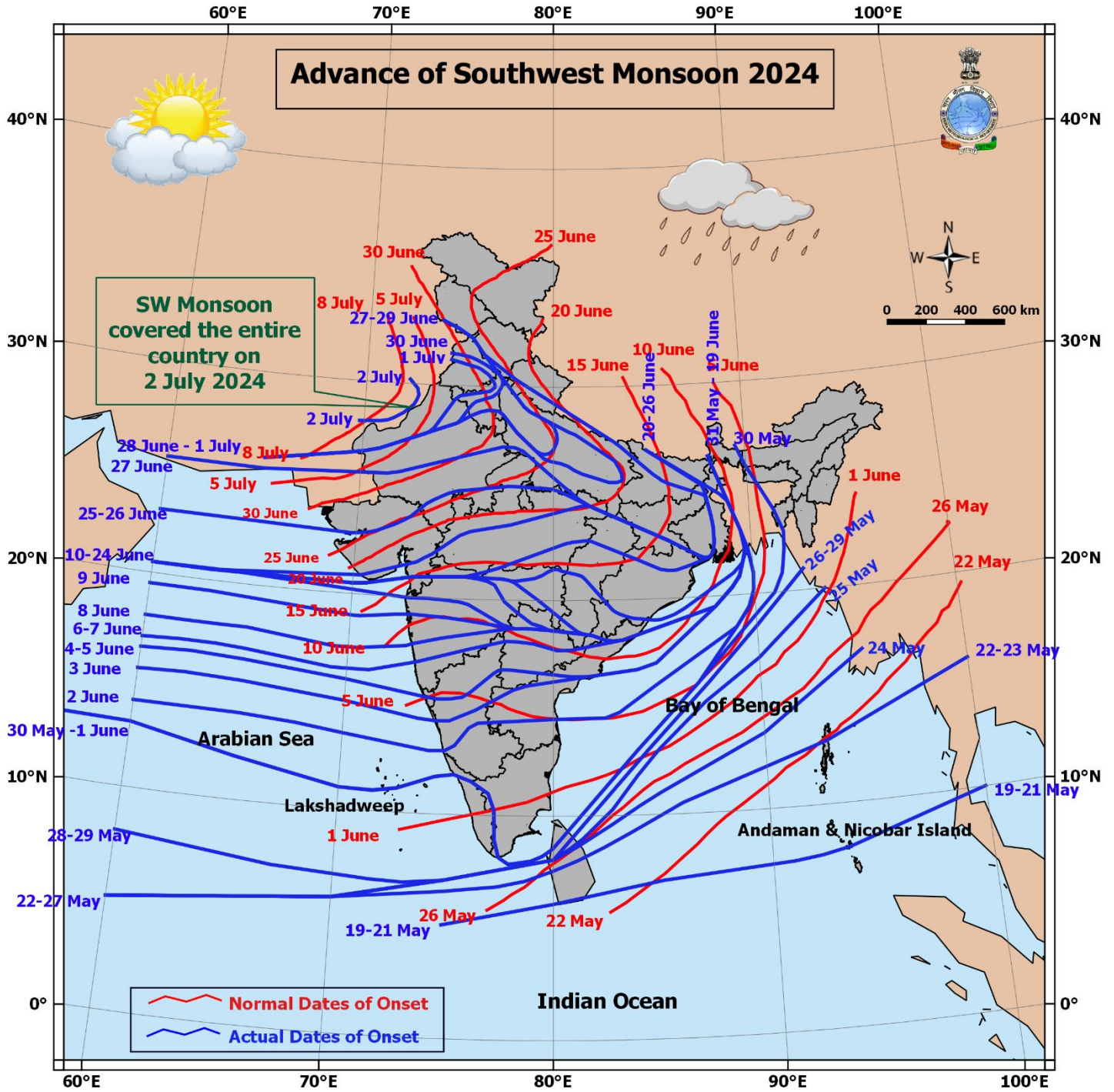
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 1-7-2024 to 0830 IST of 2-7-2024



Legends

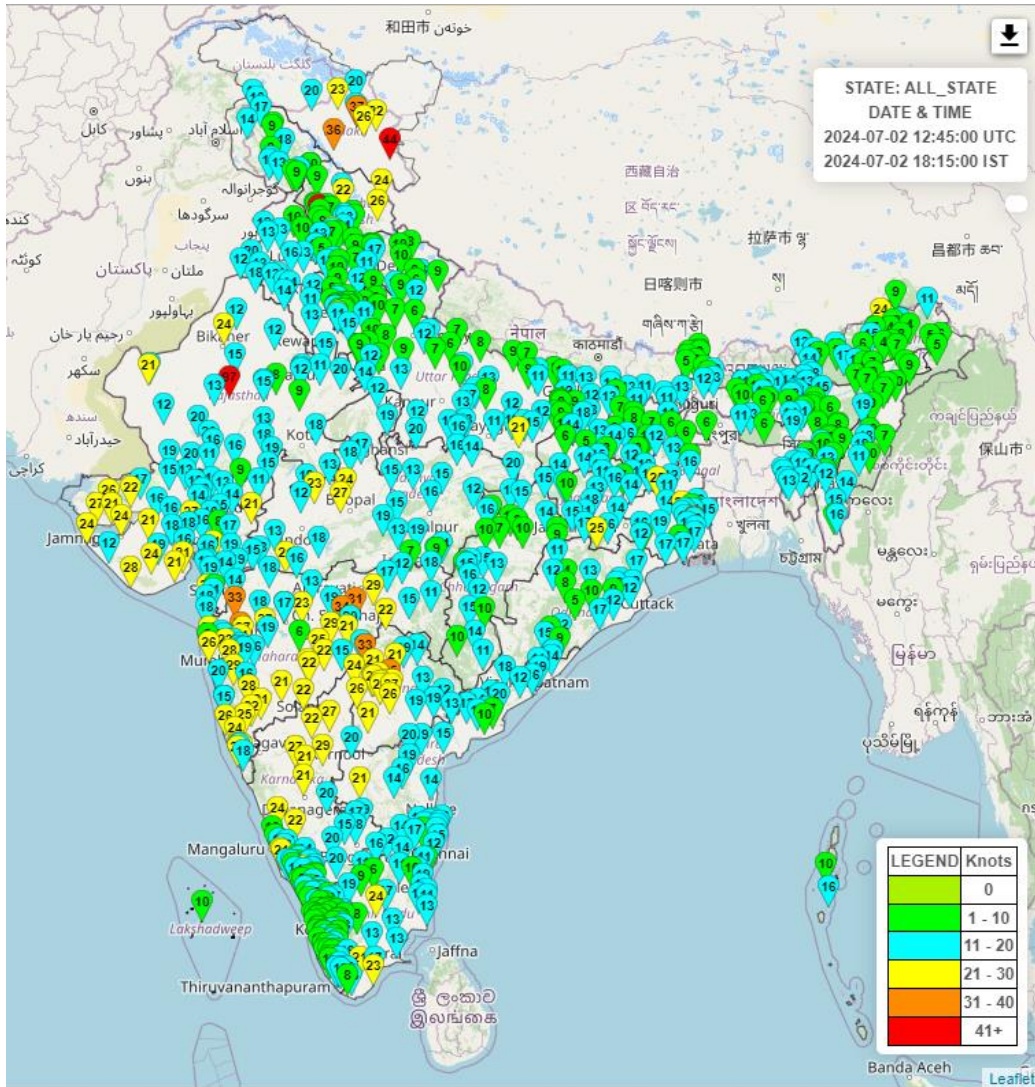
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

Fig. 6: Advance of Southwest Monsoon 2024



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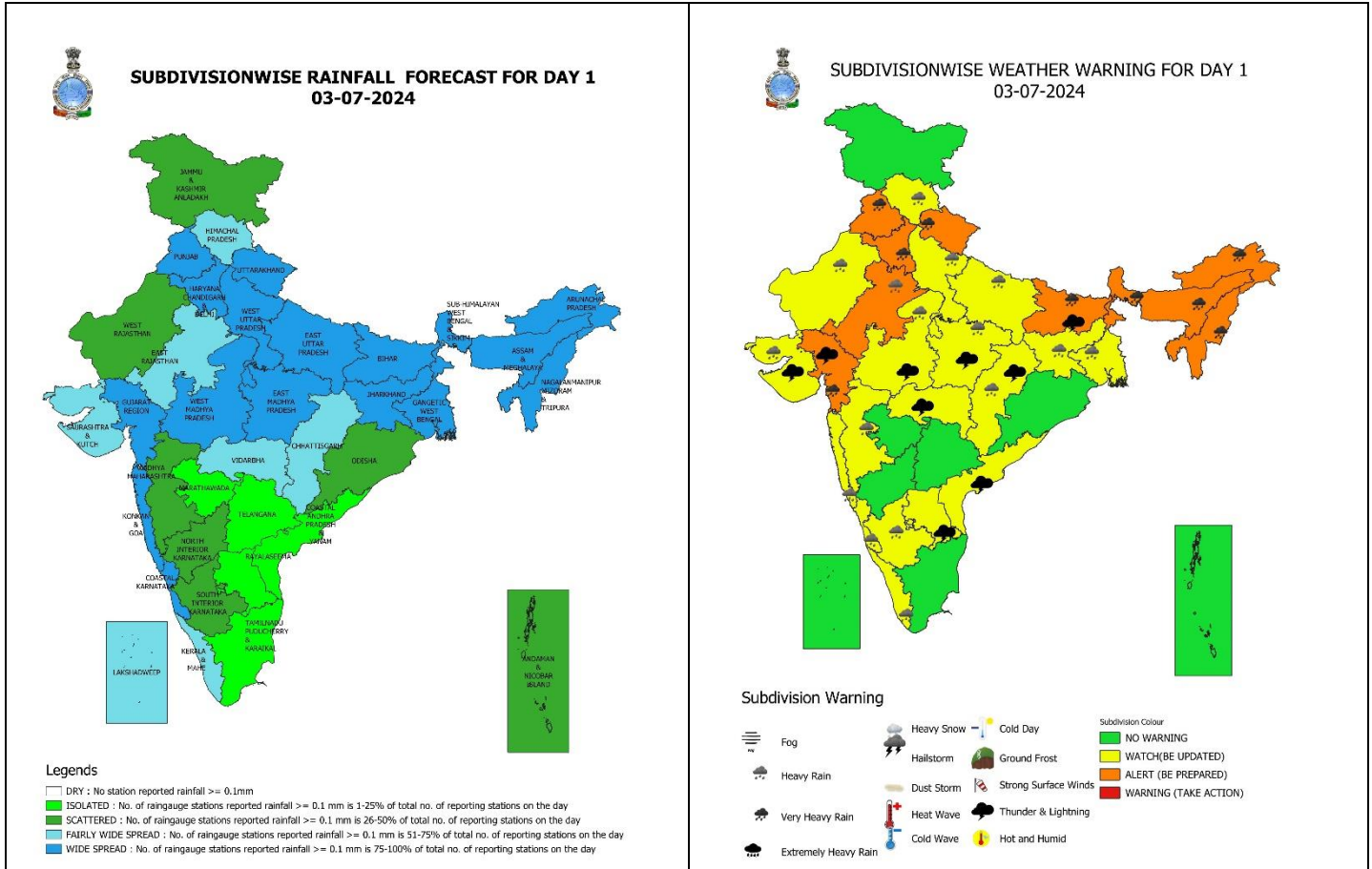
Fig. 7: Gusty winds reported over the country (in knots) from 0830 hours IST of 02.07.2024 to 1730 hours IST of 02.07.2024



1 Knot = 1.852 kmph

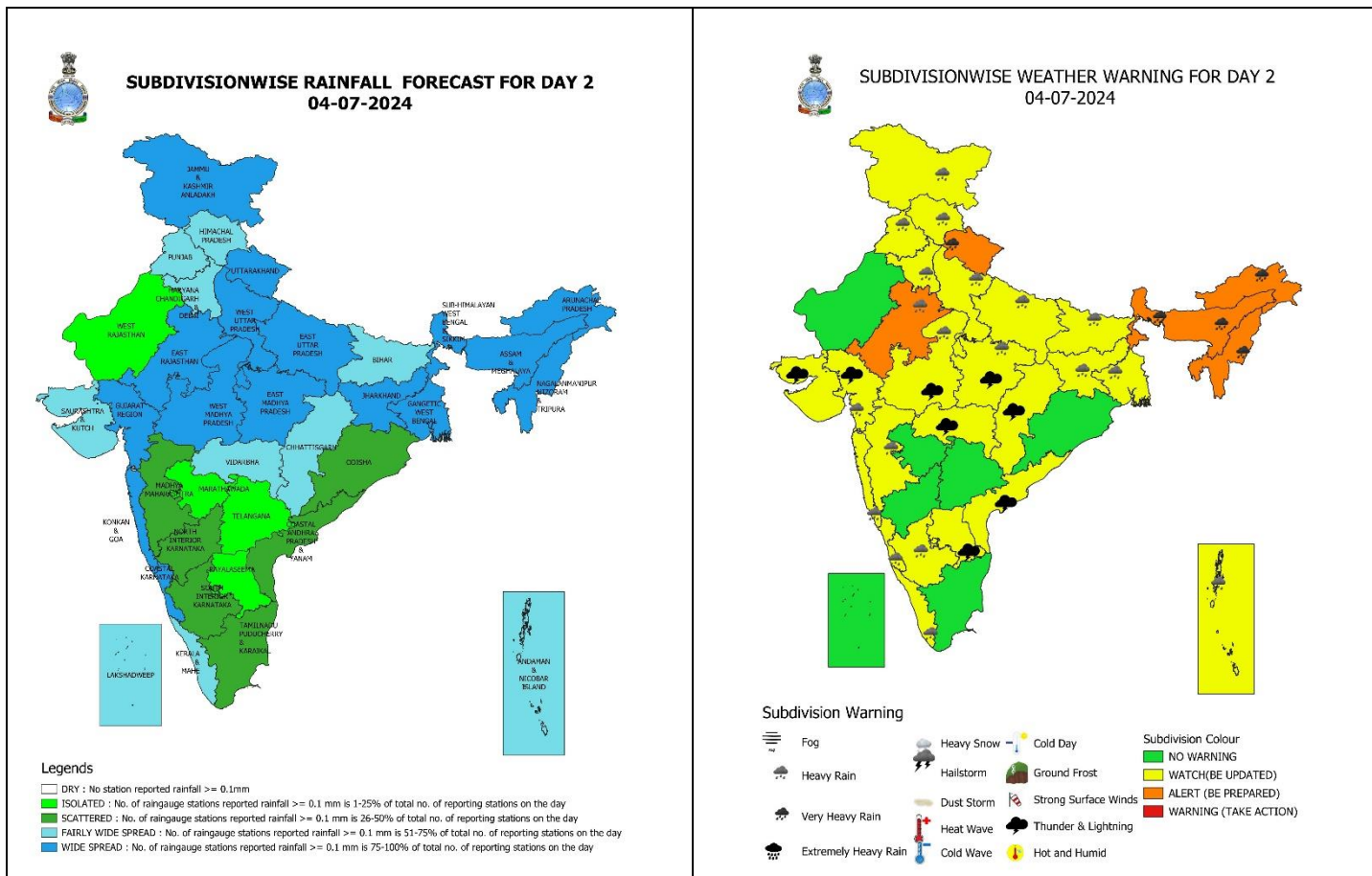
For more details, kindly refer: <http://aws.imd.gov.in:8091/>

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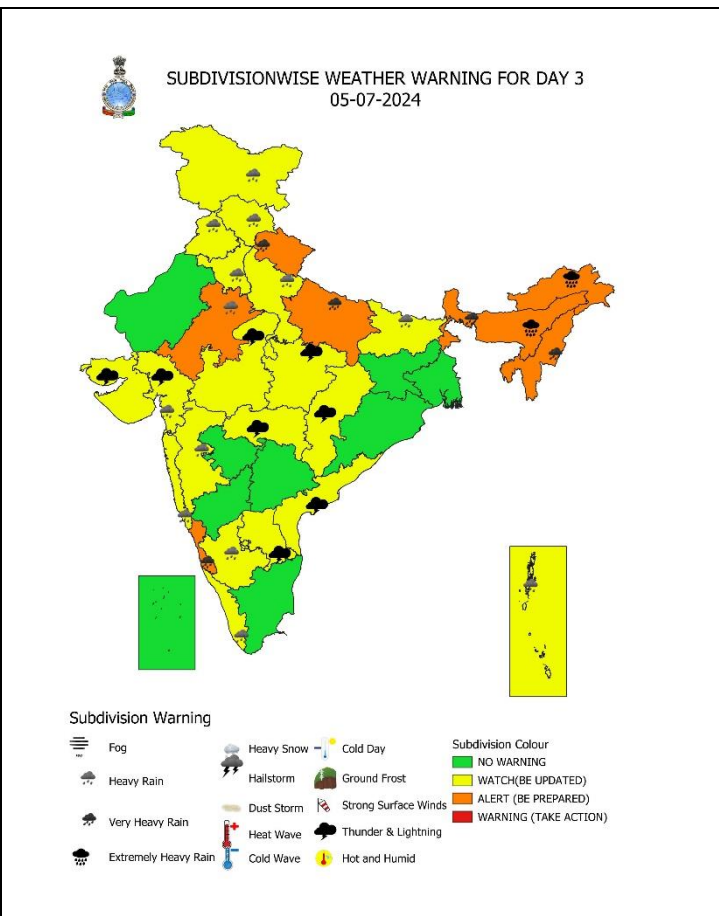
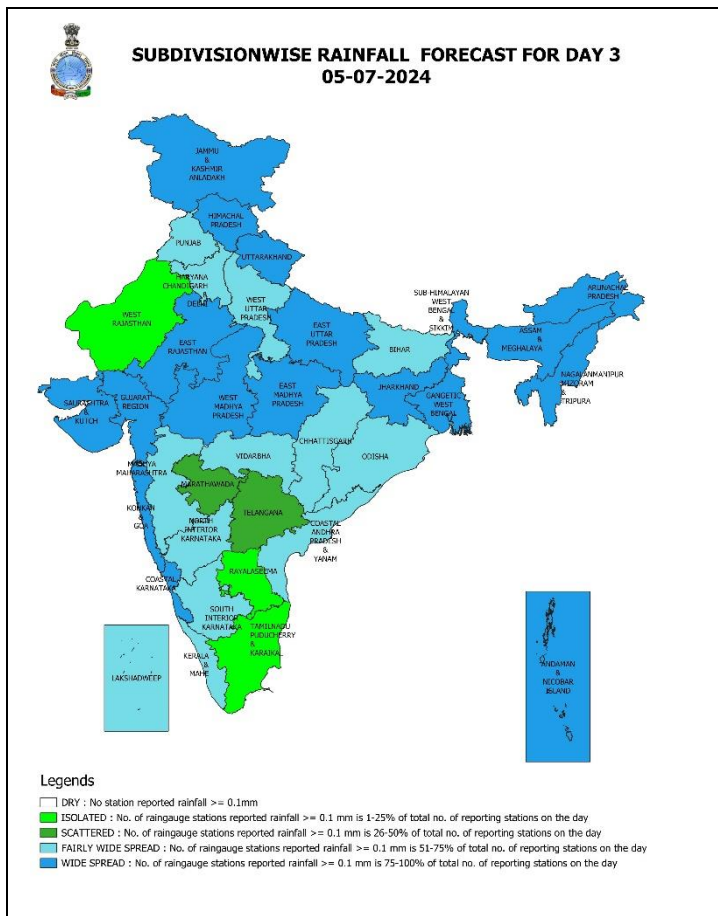
03 July (Day 1):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region; **Heavy rainfall** at isolated places over Himachal Pradesh, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Jharkhand, Konkan & Goa, Madhya Maharashtra, Saurashtra & Kutch, Kerala & Mahe, Coastal & South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Madhya Pradesh, Vidarbha, Rayalaseema and with **lightning** at isolated places over Chhattisgarh, Bihar, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, North Interior Karnataka.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast & southwest Arabian sea, along and off Gujarat, Maharashtra, Konkan, goa coasts, gulf of Mannar, off Sri Lanka coast, most parts of south Bay of Bengal, central Bay of Bengal & adjoining north Bay of Bengal, off north Andhra Pradesh, south Odisha coasts. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast & adjoining and northern parts of southwest Arabian sea & 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.



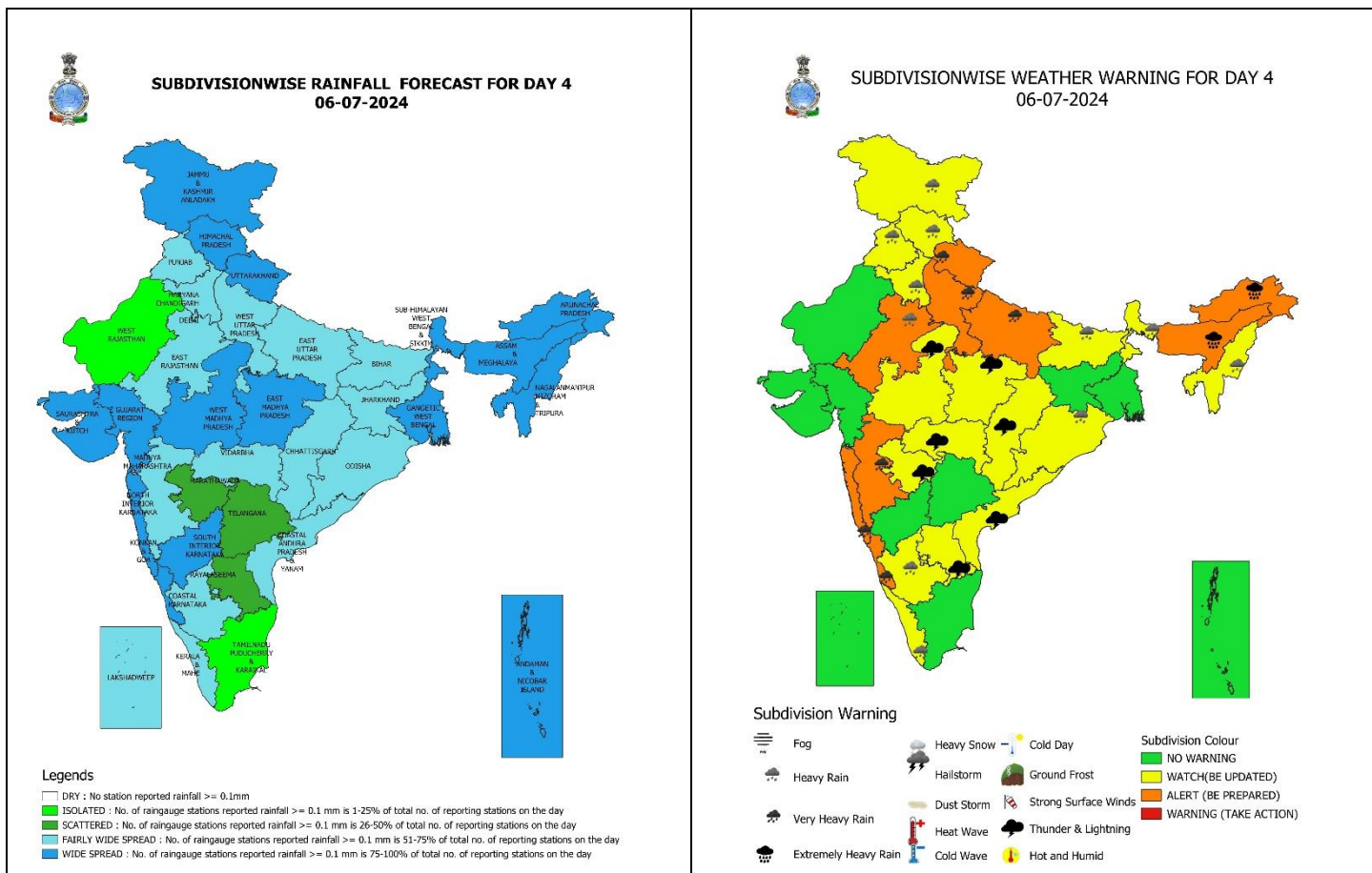
04 July (Day 2):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Uttarakhand, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Andaman & Nicobar Islands, Gangetic West Bengal, Bihar, Jharkhand, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Kerala & Mahe, Coastal Karnataka, South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Madhya Pradesh, Vidarbha, Rayalaseema and with **lightning** at isolated places over Chhattisgarh, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Interior Karnataka.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast & southwest Arabian sea, 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. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast & adjoining and northern parts of southwest Arabian sea & 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 3):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places Uttarakhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Andaman & Nicobar Islands, Bihar, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Kerala & Mahe, South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Madhya Pradesh, Vidarbha, Rayalaseema and with **lightning** at isolated places over Chhattisgarh, Gujarat state, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, North Interior Karnataka.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast & southwest Arabian sea, 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. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast & adjoining and northern parts of southwest Arabian sea & 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.

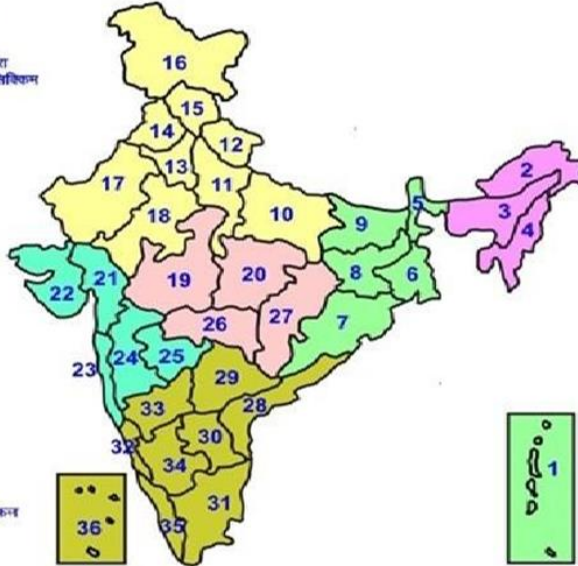


06 July (Day 4):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places Uttarakhand, Uttar Pradesh, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka; **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, Kerala & Mahe, South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Madhya Pradesh, Vidarbha, Rayalaseema and with **lightning** at isolated places over Chhattisgarh, Kerala & Mahe, Coastal Andhra Pradesh & Yanam.
- ❖ **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 & 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, over parts of westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast & adjoining and northern parts of southwest Arabian sea & 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.

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
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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, 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)