

Friday, July 12, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems

- ✓ The Monsoon trough is near its normal position at mean sea levels.
- ✓ The off-shore trough at mean sea level runs along south Gujarat-north Kerala coasts.
- ✓ A cyclonic circulation over Odisha and another over north Madhya Maharashtra in lower tropospheric levels.
- ✓ A cyclonic circulation over northeast Assam & neighbourhood in lower tropospheric levels.

Forecast & Warnings

❖ West and South Peninsular India

- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm & lightning very likely over Konkan & Goa, Madhya Maharashtra, Kerala & Mahe, Lakshadweep, Karnataka, Gujarat Region; scattered to fairly widespread light to moderate rainfall over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Telangana, Marathwada; isolated to scattered light to moderate rainfall over Tamil Nadu, Puducherry & Karaikal and Rayalaseema during next 5 days.
- ✓ Isolated **heavy rainfall** over Konkan & Goa, Madhya Maharashtra and Coastal Karnataka, Gujarat Region, South Interior Karnataka during 12th-15th; Saurashtra & Kutch on 12th; Telangana, Kerala & Mahe and North Interior Karnataka during 12th-15th; Coastal Andhra Pradesh & Yanam during 14th-16th and Rayalaseema on 15th July.
- ✓ **Isolated very heavy rainfall also likely over Konkan & Goa, ghat areas of Madhya Maharashtra, Coastal Karnataka during 12th-16th; Kerala during 13th-16th; South Interior Karnataka during 14th-16th and Gujarat region on 16th July.**

❖ East & Northeast India

- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning very likely over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Bihar and Northeast India; scattered to fairly widespread light to moderate rainfall over Gangetic West Bengal, Jharkhand, Odisha during next 5 days.
- ✓ **Heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh during 12th-14th; Assam & Meghalaya during 12th-16th; isolated **heavy rainfall** over Odisha during 13th-16th; Andaman & Nicobar Islands on 13th & 14th; Nagaland and Manipur on 14th & 15th July.
- ✓ **Isolated very heavy rainfall also likely over Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh on 12th July.**
- ✓ **Isolated extremely heavy rainfall very likely over Meghalaya on 12th July.**

❖ Northwest & Central India

- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm & lightning very likely over Uttarakhand and Central India; scattered to fairly widespread light to moderate rainfall over Himachal Pradesh, Uttar Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; isolated to scattered over Rajasthan during next 5 days; Punjab, Haryana-Chandigarh-Delhi during 12th-14th July.
- ✓ Isolated **heavy rainfall** very likely over Uttarakhand, Madhya Pradesh, Chhattisgarh during 12th-15th; East Uttar Pradesh during 12th-14th; West Uttar Pradesh, Punjab, north Haryana on 12th; Himachal Pradesh, Jammu on 12th & 13th; East Rajasthan on 15th; Vidarbha during 13th-15th July.
- ✓ **Isolated very heavy rainfall also likely over East Uttar Pradesh and Uttarakhand on 12th July.**

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at **many places** over East Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Konkan & Goa; at **a few places** over East Uttar Pradesh, Chhattisgarh, Kerala & Mahe; at **isolated places** over Himachal Pradesh, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal, Karnataka, Madhya Maharashtra, Vidarbha and Gujarat Region.
- ❖ **Heavy rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): **NIL**.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **East Madhya Pradesh:** Damoh-6, Nowgong, Khajuraho, Satna, Mandla and Seoni-2 each; **Bihar:** Dehri-5, Supaul-3; **East Uttar Pradesh:** Sultanpur-5, Baliya-4, Varanasi-3; **Assam & Meghalaya:** Goalpara-4, Cherrapunji-3, Tezpur-2; **Konkan & Goa:** Colaba-3, Santacruz-2; **Vidarbha:** Chandrapur-4; **Gujarat Region:** Surat-3.
- ❖ **Minimum Temperature Departures (as on 11-07-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over West Rajasthan, East Madhya Pradesh and Odisha; **above normal (1.6°C to 3.0°C)** at a few places over Punjab, Gangetic West Bengal and Kerala & Mahe; at isolated places over Himachal Pradesh, Haryana-Chandigarh, East Rajasthan, Gujarat state, West Madhya Pradesh, Bihar, Jharkhand, Chhattisgarh, Vidarbha, Coastal Andhra Pradesh & Yanam and Rayalaseema. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Konkan and Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 19.8°C** was reported at **Bulsar Valsad (Gujarat Region)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 11-07-2024):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Odisha, Gangetic West Bengal; at isolated places over Rajasthan, Haryana-Chandigarh-Delhi, Jharkhand, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, Telangana; **above normal (1.6°C to 3.0°C)** at isolated places over Uttar Pradesh, Madhya Pradesh, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Vidarbha, Bihar. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Assam & Meghalaya and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature of 42.5°C** was reported at **Churu (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Monsoon trough at mean sea level now passes through Sri Ganganagar, Hissar, Agra, Prayagraj, Daltonganj, Ranchi, Digha, and thence east-southeastwards to northeast Bay of Bengal.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Interior Odisha & neighbourhood at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over north Madhya Maharashtra & neighbourhood between 3.1 km & 4.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Punjab & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The off-shore trough at mean sea level along south Gujarat - north Kerala coasts persists.
- ❖ The shear zone roughly along 18°N at 5.8 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 19th 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 western Himalayan Region, Central 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 19th-21st July, 2024)

- ❖ Fairly widespread to widespread rainfall likely over most parts of the country except plains of northwest India and East peninsular India where isolated to scattered rainfall likely.

Table-1

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

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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

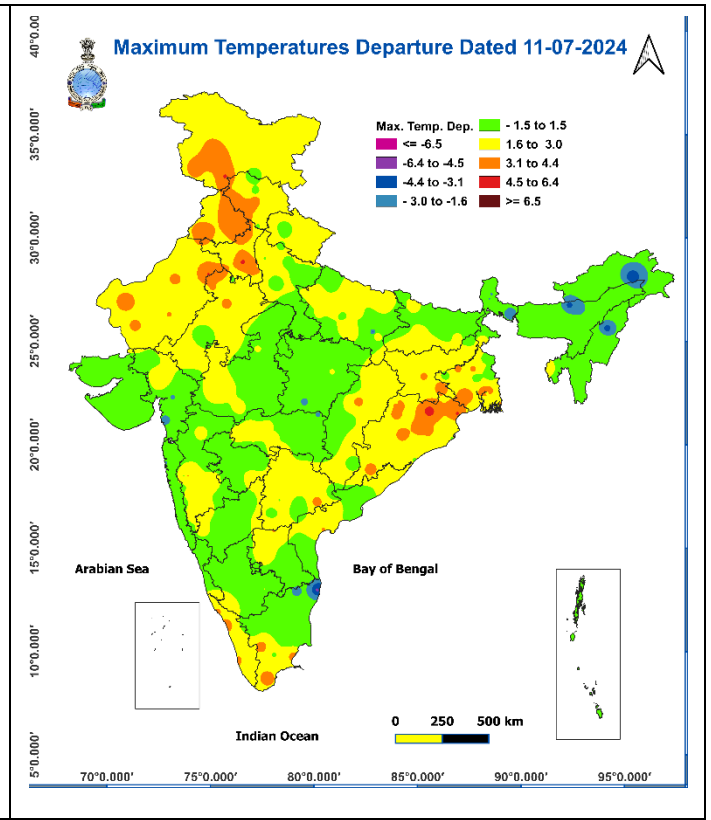
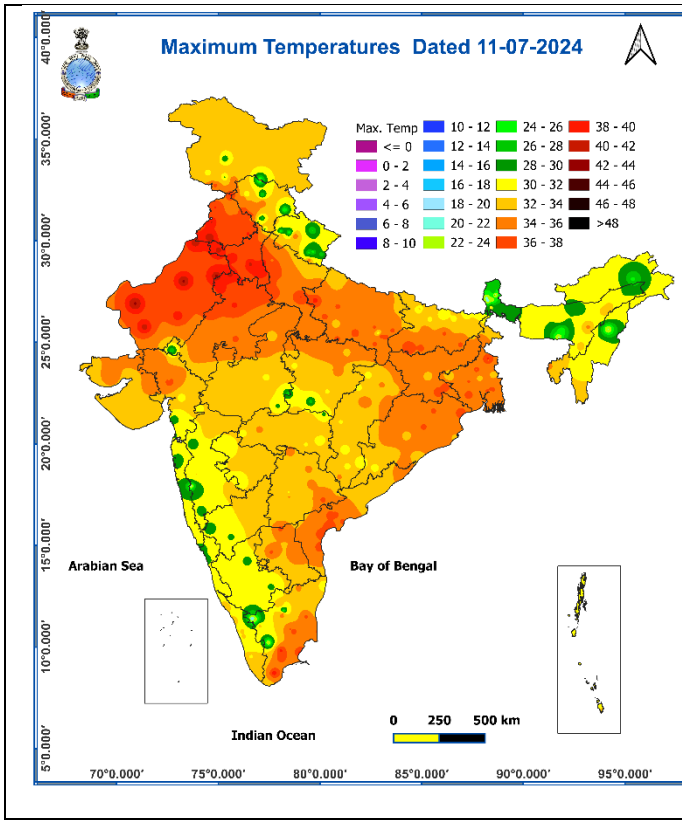


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

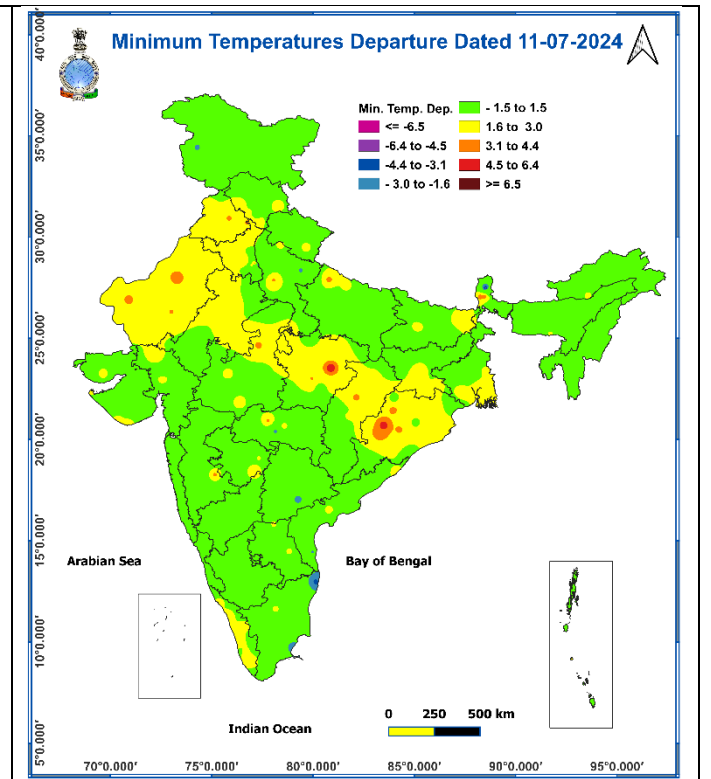
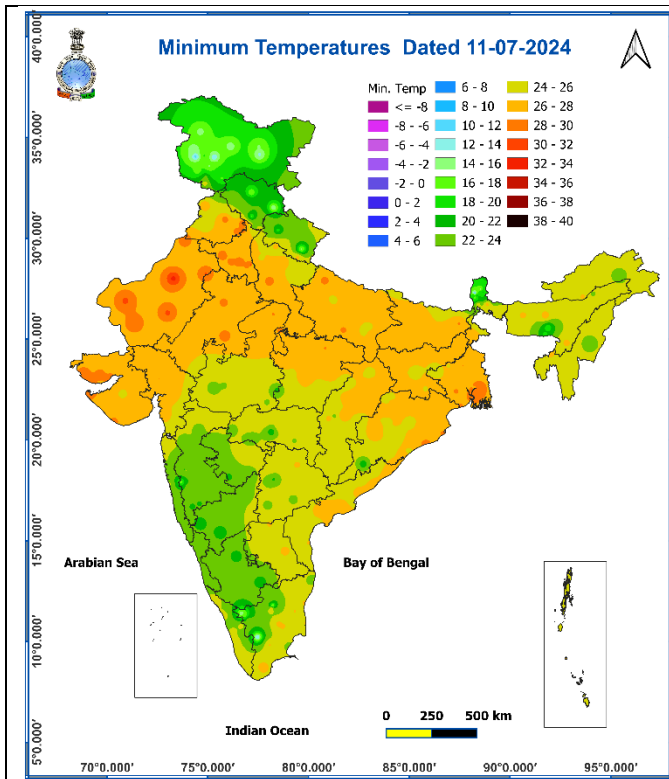
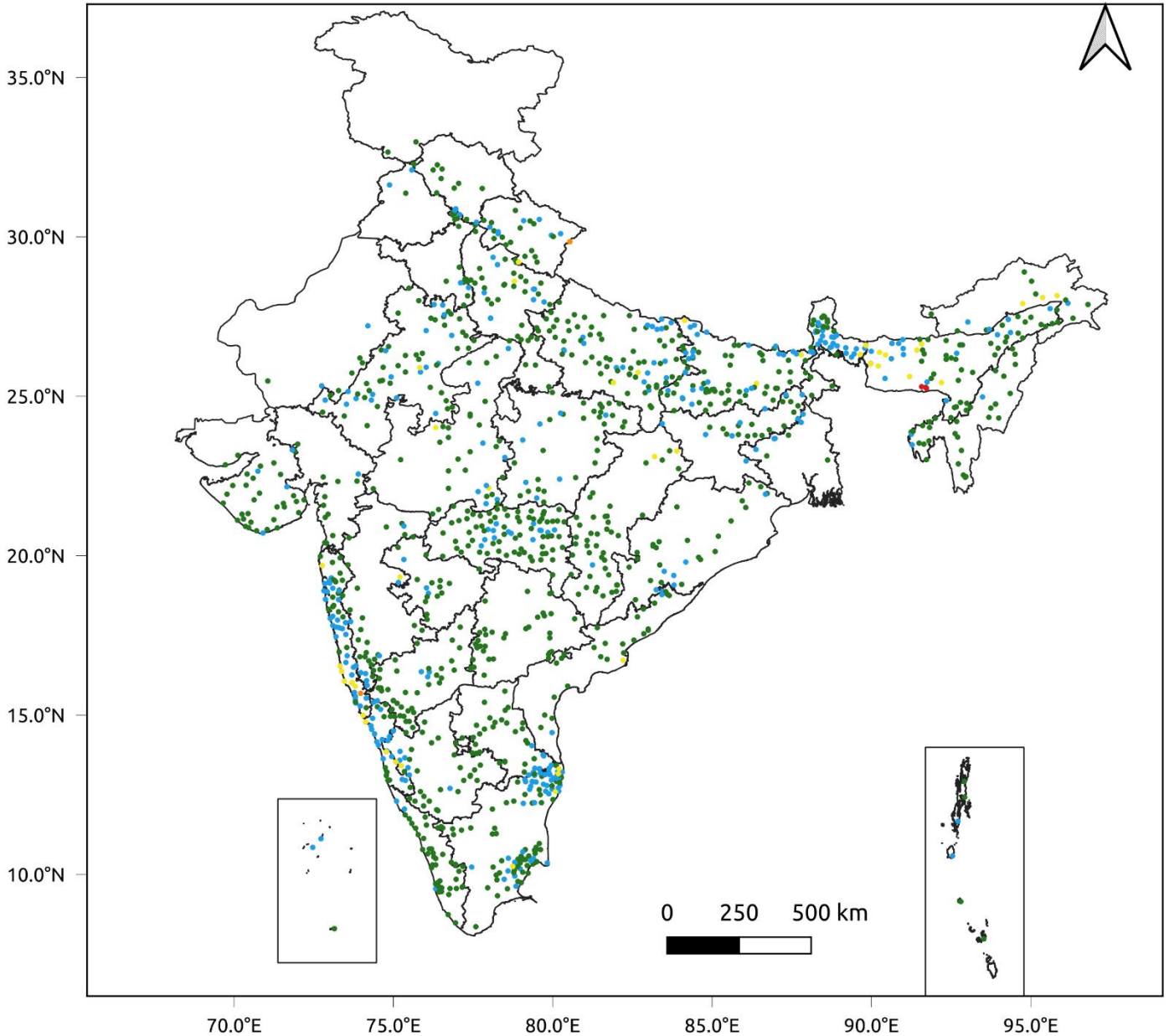


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

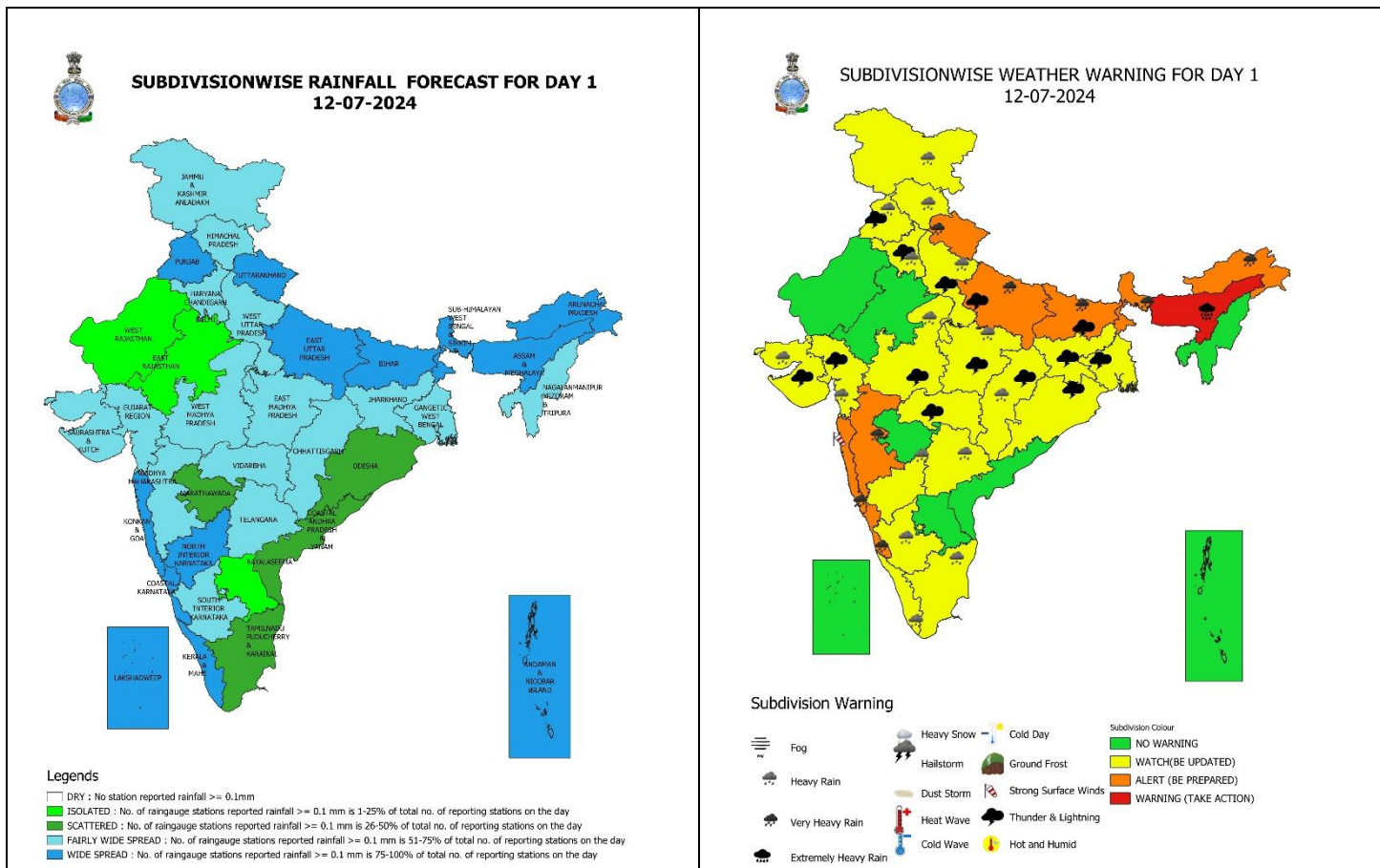


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 10-7-2024 to 0830 IST of 11-7-2024



Legends

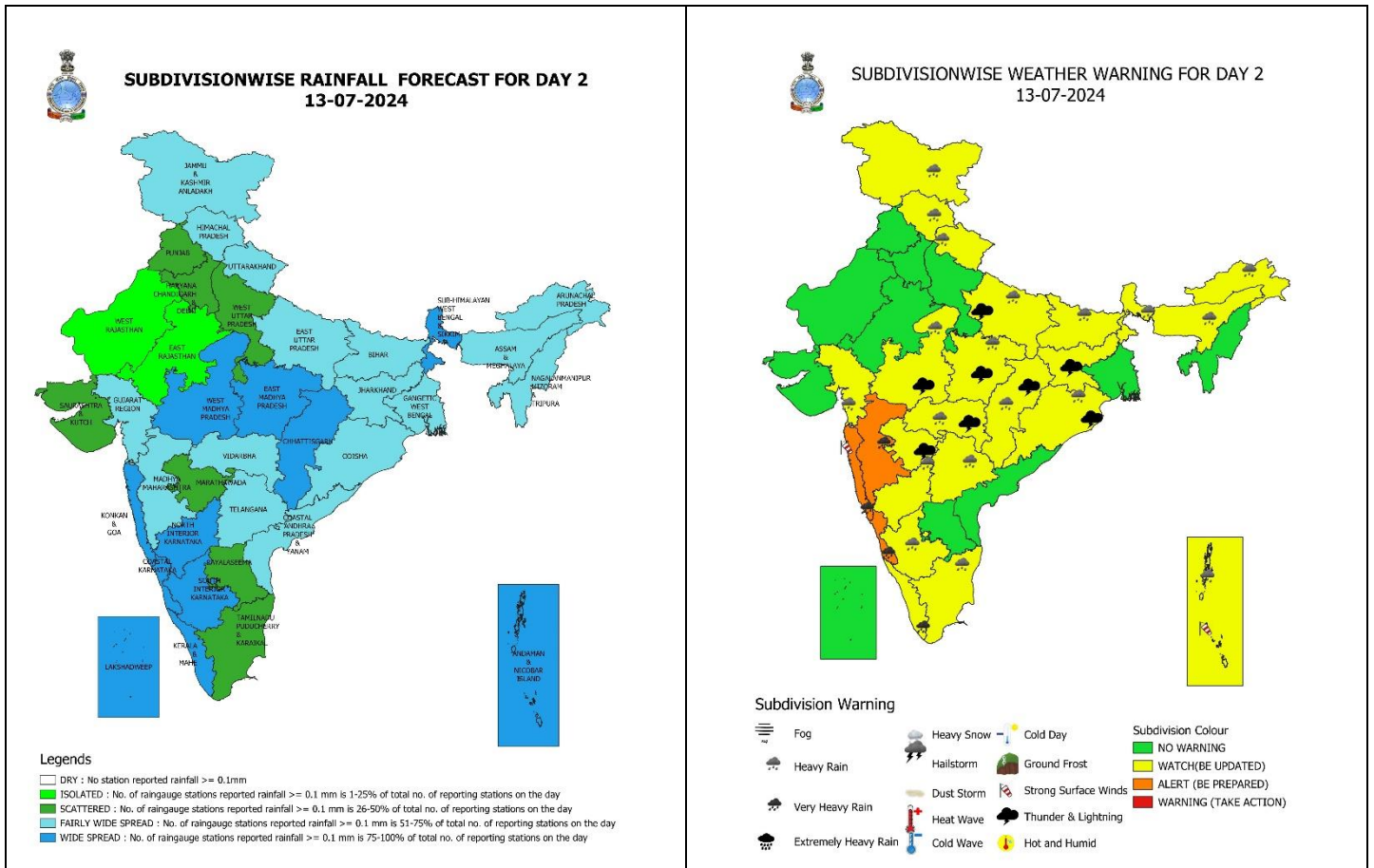
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)



12 July (Day 1):

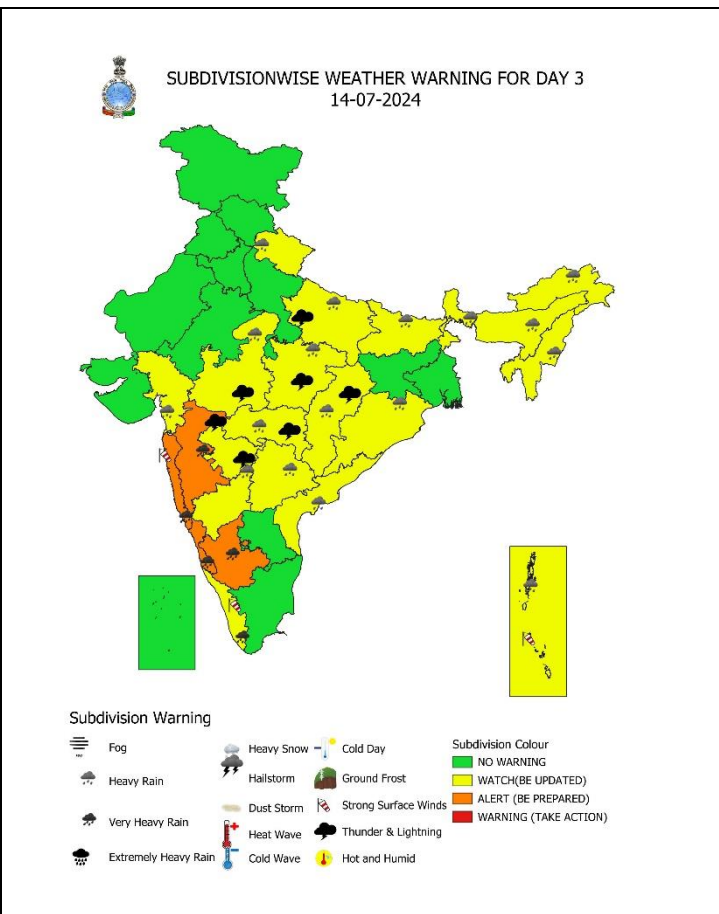
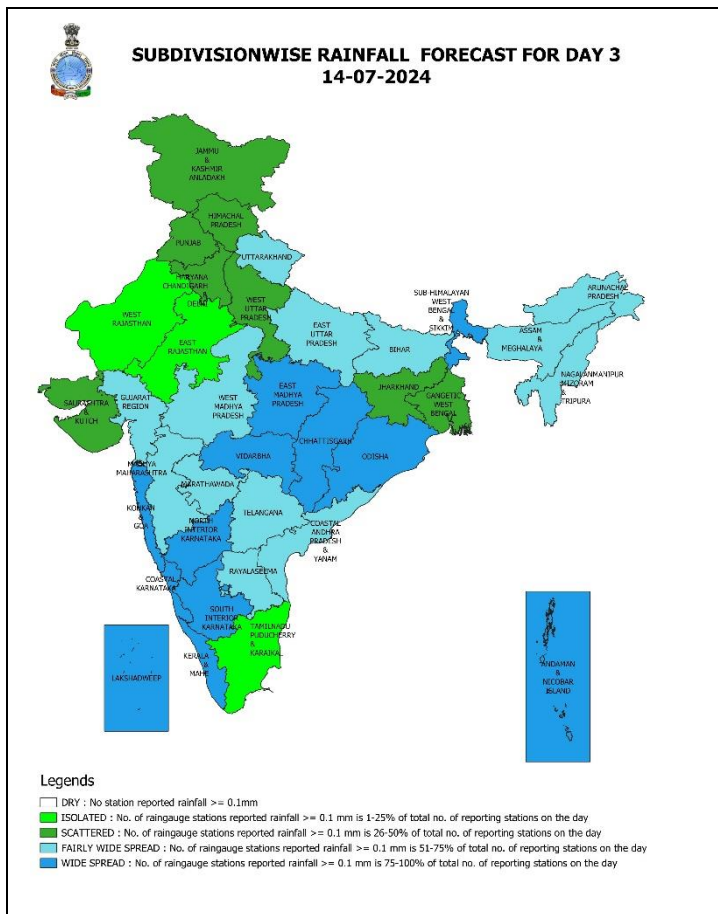
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Assam & Meghalaya; **Heavy to very heavy rainfall** very likely at isolated places Uttarakhnad, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, and Coastal Karnataka; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Gujarat state, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Telangana and Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha and Gujarat state.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over northeast Arabian sea and adjoining northwest Arabian sea, eastcentral & adjoining westcentral Arabian sea and adjoining areas of south Arabian sea and gulf of Mannar along & off Sri Lanka coast. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off Gujarat coast & adjoining areas of Maharashtra coasts. squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over westcentral & adjoining areas of eastcentral, northeast & southwest Arabian sea and along & off Somalia coast & south Oman coasts. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail over most parts of westcentral Bay of Bengal and along & off Andhra Pradesh coast. wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over adjoining areas of westcentral and eastcentral & northwest Bay of Bengal and southwest & adjoining areas of southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

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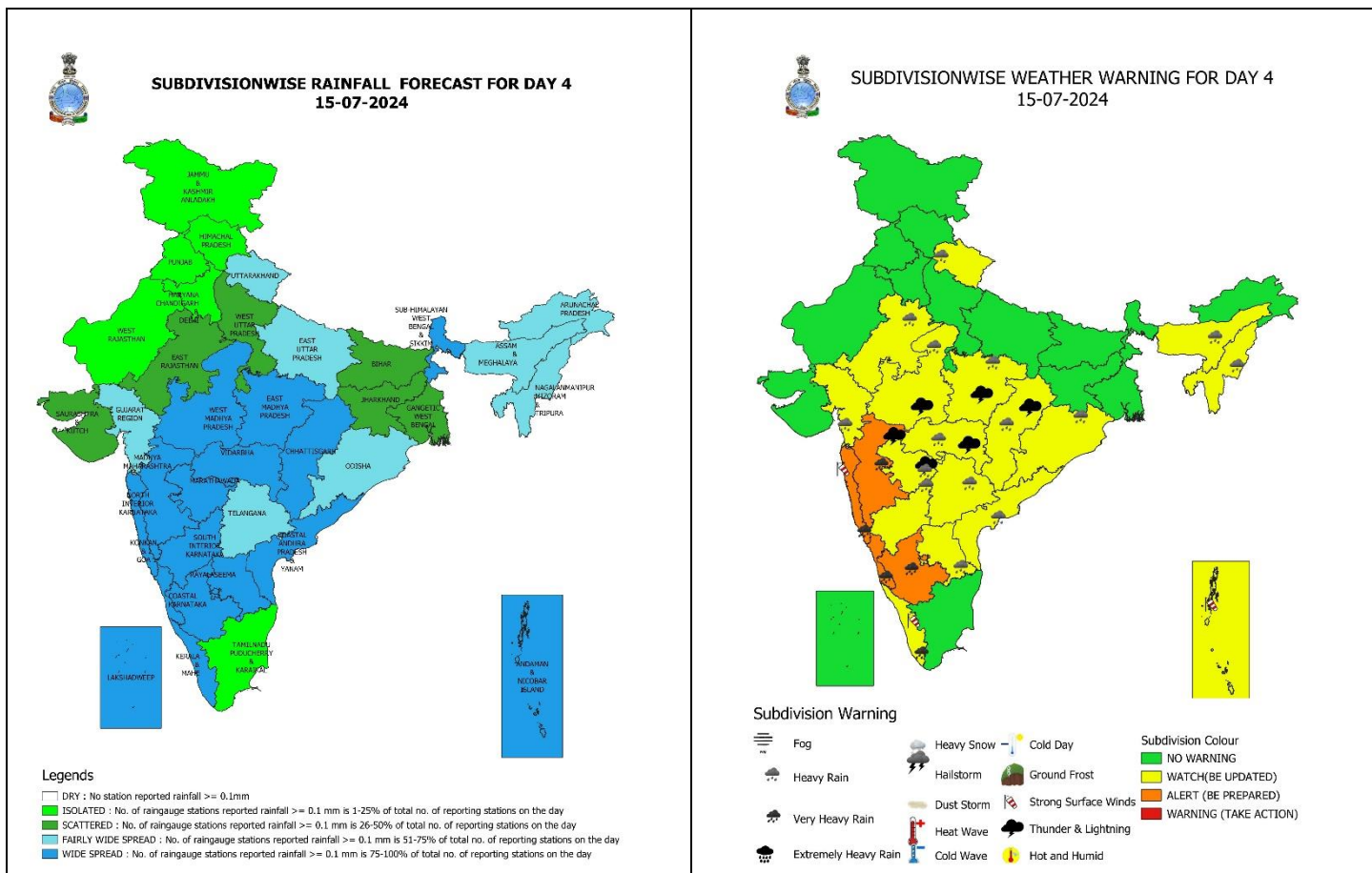
13 July (Day 2):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Kerala & Mahe, and Coastal Karnataka; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Telangana and Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha and Marathwada.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over northeast Arabian sea and adjoining northwest Arabian sea, eastcentral & adjoining westcentral Arabian sea and adjoining areas of south Arabian sea and along & off north Karnataka coasts and gulf of Mannar along & off Sri Lanka coast. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail along and off Gujarat, Maharashtra & goa coasts. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over westcentral & adjoining areas of eastcentral, northeast & southwest Arabian sea and along & off Somalia coast & south Oman coasts. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** very likely to prevail over most parts of westcentral & adjoining areas of northwest bob and along & off Andhra Pradesh coast. **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over adjoining areas of westcentral and eastcentral & northwest Bay of Bengal and southwest & adjoining areas of southeast bob and most parts of north Andaman Sea. Fishermen are advised not to venture into these areas.



14 July (Day 3):

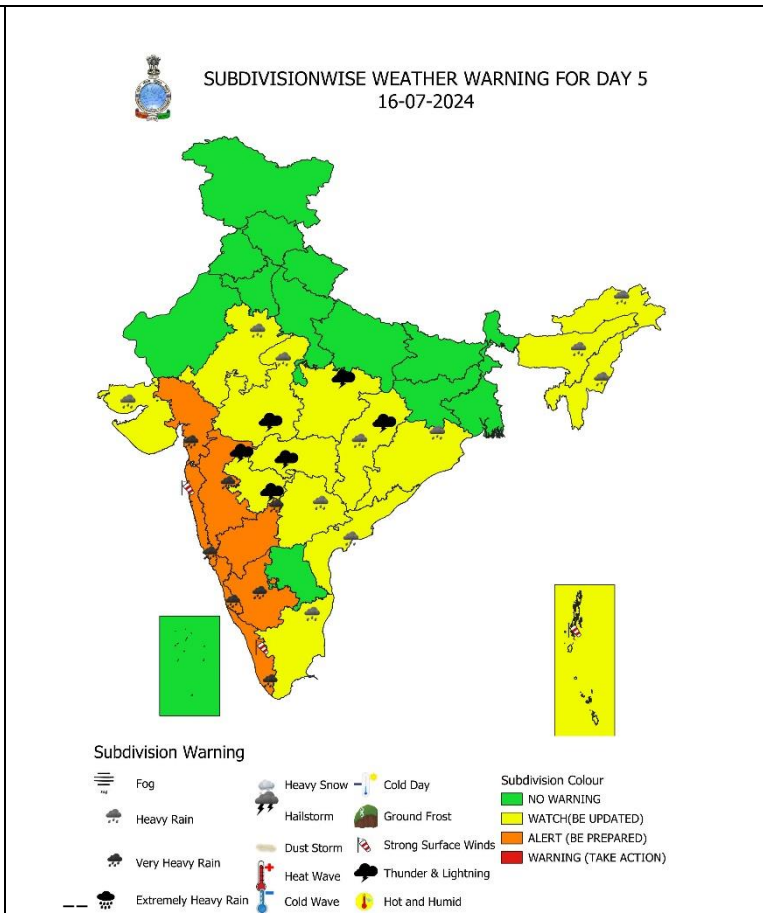
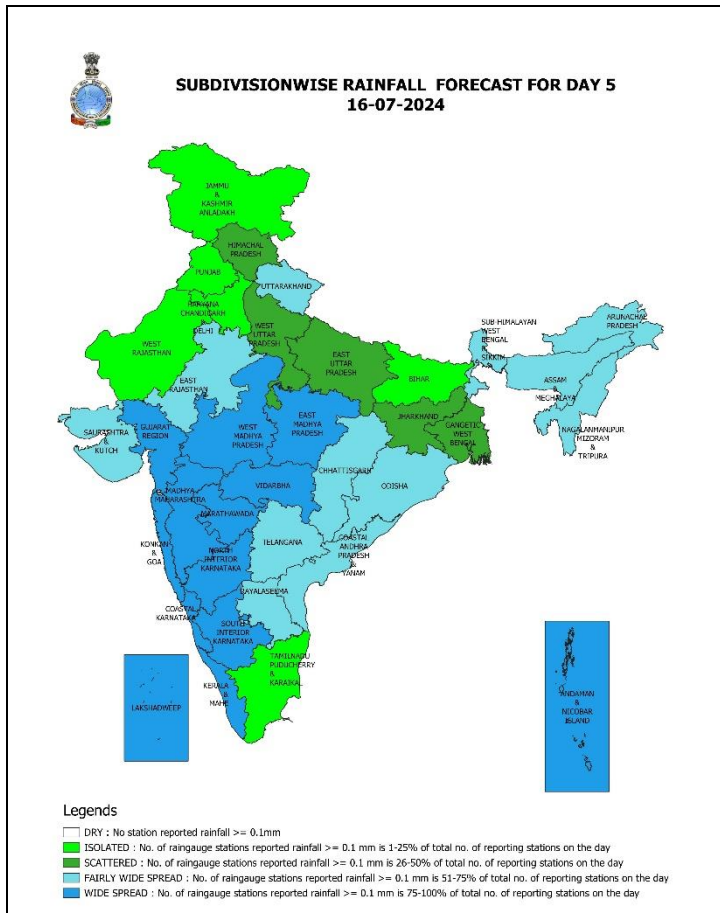
- ❖ **Heavy to very heavy rainfall** likely at isolated places over Konkan & Goa, Madhya Maharashtra, Kerala & Mahe, Coastal Karnataka and South Interior Karnataka; **Heavy rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over East Uttar Pradesh, 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 northeast Arabian sea and adjoining northwest Arabian sea, eastcentral & adjoining westcentral Arabian sea & adjoining areas of south Arabian sea and along & off goa, Karnataka & Kerala coasts and gulf of Mannar along & off Sri Lanka coast. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Maharashtra and adjoining Gujarat coasts. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over westcentral & adjoining areas of eastcentral, northeast & southwest Arabian sea and along & off Somalia coast & south Oman coasts. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over most parts of westcentral bob and along & off Andhra Pradesh coast. **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over adjoining areas of westcentral & eastcentral Bay of Bengal and southwest & adjoining areas of southeast bob and most parts of north Andaman Sea. Fishermen are advised not to venture into these areas.



15 July (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Konkan & Goa, Madhya Maharashtra, Kerala & Mahe, Coastal Karnataka and South Interior Karnataka; **Heavy rainfall** at isolated places over Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Gujarat Region, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over 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 northeast Arabian sea and adjoining northwest Arabian sea, eastcentral & adjoining westcentral Arabian sea & adjoining areas of south Arabian sea and along & off goa, Karnataka & Kerala coasts and gulf of Mannar along & off Sri Lanka coast. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Maharashtra and adjoining Gujarat coasts. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over westcentral & adjoining areas of eastcentral, northeast & southwest Arabian sea and along & off Somalia coast & south Oman coasts. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over most parts of westcentral bob and along & off Andhra Pradesh coast. **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over adjoining areas of westcentral & eastcentral Bay of Bengal and southwest & adjoining areas of southeast bob and most parts of north Andaman Sea. Fishermen are advised not to venture into these areas.

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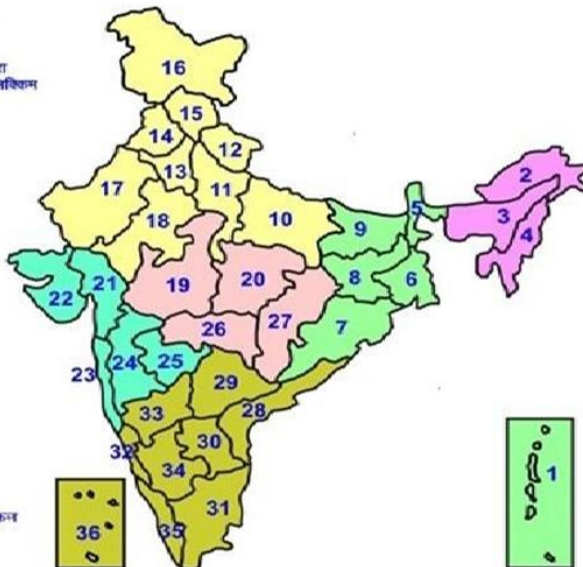


16 July (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Gujarat region, Konkan & Goa, Madhya Maharashtra, Kerala & Mahe and Karnataka; **Heavy rainfall** at isolated places over Arunachal Pradesh, East Rajasthan, West Madhya Pradesh, Odisha, Saurashtra & Kutch, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal and Telangana.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over 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 northeast Arabian sea and adjoining northwest Arabian sea, eastcentral & adjoining westcentral Arabian sea & adjoining areas of south Arabian sea and along & off goa, Karnataka & Kerala coasts and gulf of Mannar along & off Sri Lanka coast. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Maharashtra and adjoining Gujarat coasts. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over westcentral & adjoining areas of eastcentral, northeast & southwest Arabian sea and along & off Somalia coast & south Oman coasts. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over most parts of westcentral bob and along & off Andhra Pradesh coast. **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over adjoining areas of westcentral & eastcentral Bay of Bengal and southwest & adjoining areas of southeast bob and most parts of north Andaman Sea. 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, मणिपुर, 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 कोंकण एवं कच्छ
- 24 मध्य प्रदेश
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 उत्पी आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 रायलसेमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 उत्तर कर्नाटक
- 33 उत्तर कर्नाटक
- 34 दक्षिण 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

* 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)

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)