

Saturday, July 13, 2024  
Time of Issue: 0745 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### Weather Systems

- ✓ The Monsoon trough is north of its normal position at mean sea level.
- ✓ The off-shore trough runs along south Gujarat-north Kerala coasts at mean sea level.
- ✓ A cyclonic circulation over East Bihar and another over northeast Assam & a trough runs from northeast Assam to northwest Bay of Bengal 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 state; scattered to fairly widespread light to moderate rainfall over Coastal Andhra Pradesh & Yanam, Telangana, Marathwada, Rayalaseema; isolated to scattered light to moderate rainfall over Tamil Nadu, Puducherry & Karaikal during next 5 days.
- ✓ **Heavy rainfall** very likely at some places over Konkan & Goa; at isolated places over Ghat regions of Madhya Maharashtra, Karnataka, Gujarat Region, Telangana during 13<sup>th</sup>-17<sup>th</sup>; Rayalaseema on 14<sup>th</sup> & 15<sup>th</sup>; Gujarat state on 16<sup>th</sup> & 17<sup>th</sup> July.
- ✓ **Isolated very heavy rainfall also likely over Konkan & Goa, Kerala, Coastal & South Interior Karnataka, Ghat regions of Madhya Maharashtra during 13<sup>th</sup>-17<sup>th</sup> and Gujarat State on 16<sup>th</sup> & 17<sup>th</sup> July.**

#### ❖ East & Northeast India

- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning very likely over East and Northeast India during next 5 days.
- ✓ **Heavy rainfall** very likely at isolated places over Assam & Meghalaya, Odisha during 13<sup>th</sup>-17<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh during 13<sup>th</sup>-14<sup>th</sup>; Jharkhand on 13<sup>th</sup>; Andaman & Nicobar Islands on 13<sup>th</sup> & 14<sup>th</sup>; Nagaland and Manipur on 14<sup>th</sup> & 15<sup>th</sup> July.
- ✓ **Isolated very heavy rainfall also likely over Nagaland on 14<sup>th</sup> and Odisha during 15<sup>th</sup>-17<sup>th</sup> July.**

#### ❖ Northwest & Central India

- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm & lightning very likely over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh; scattered to fairly widespread light to moderate rainfall over Himachal Pradesh, Uttar Pradesh, East Rajasthan during next 5 days and over Punjab and Haryana-Chandigarh-Delhi on 13<sup>th</sup> July. Isolated to scattered rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Rajasthan during next 5 days.
- ✓ Isolated **heavy rainfall** very likely over Uttarakhand, East Uttar Pradesh during 13<sup>th</sup>-17<sup>th</sup>; Chhattisgarh during 13<sup>th</sup>-15<sup>th</sup>; West Uttar Pradesh and Madhya Pradesh on 13<sup>th</sup> & 14<sup>th</sup>; Himachal Pradesh on 13<sup>th</sup>; East Rajasthan on 16<sup>th</sup> & 17<sup>th</sup> and Vidarbha during 14<sup>th</sup>-17<sup>th</sup> July.

### Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Kerala & Mahe, Andaman & Nicobar Islands; **at many places** over Coastal Karnataka, Sub-Himalayan West Bengal & Sikkim, Uttarakhand; **at a few places** over Madhya Maharashtra, Telangana, Chhattisgarh, Odisha, Bihar Gangetic West Bengal, Assam & Meghalaya, Arunachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Gujarat state; **at isolated places** over Uttar Pradesh, Madhya Pradesh, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Marathwada, Vidarbha, Interior Karnataka.
- ❖ **Heavy rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Kerala & Mahe, Saurashtra & Kutch.
- ❖ **Significant amount of rainfall** (from 0830 hours to 1730 hours IST of yesterday) (in cm): **Kerala & Mahe:** Kottayam-11, Pathanamthitta-9, Thiruvananthapuram, Kannur-7 each, Idukki-5; **Konkan & Goa:** Panji-5, Old Goa-4, Mumbai(Colaba)-3, Matheran-3; **Bihar:** Dehri-5, Supaul-3, **Assam & Meghalaya:** Joalpara-4, Shora-3, **East Uttar Pradesh:** Sulantanpur-5, Ballai-4, Varanasi-3, **East Madhya Pradesh:** Damoh-6, Nowgong-3; **Vidarbha:** Chandrapur: 4; **Gujarat Region:** Surat-3, **Saurashtra & Kutch:** Daman-8, Diu- 3 .
- ❖ **Minimum Temperature Departures (as on 12-07-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Himachal Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Kerala & Mahe; at many places over Punjab and Odisha; at a few places over Telangana and Rayalaseema; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, Uttar Pradesh, West Madhya Pradesh, Gujarat state, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Vidarbha and Marathwada. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Gangetic West Bengal; **below normal (-1.6°C to -3.0°C)** at isolated places over Konkan & Goa and West Rajasthan and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 17.5°C was reported at **Dehri (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 12-07-2024):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Uttarakhand, Telangana, Interior Karnataka and Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at isolated places over Uttar Pradesh, Chhattisgarh, Odisha & Vidarbha. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Gangetic West Bengal 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 continue to pass through Amritsar, Chandigarh, Meerut, Shahjahanpur, Barabanki, Muzaffarpur, Asansol, Krishnanagar and thence southeastwards to northeast Bay of Bengal.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over northeast Assam to northwest Bay of Bengal at 0.9 km above mean sea level persists.
- ❖ The trough from west Assam to northwest Bay of Bengal at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over east Bihar & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over north Gujarat & neighbourhood at 3.1 km above mean sea level persists.
- ❖ The off-shore trough at mean sea level along south Gujarat - north Kerala coasts persist.

### Weather Forecast for next 7 days (Upto 0830 hours IST of 20<sup>th</sup> 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.
- ❖ Strong surface winds speed reaching upto 25-35 kmph likely over Andaman & Nicobar Islands during next 5 days.
- ❖ No significant change in maximum temperatures very likely over most parts of the country.

### Weather Outlook for subsequent 3 days (During 20<sup>th</sup>-22<sup>st</sup> 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	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-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	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	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	FWS	FWS	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	FWS	FWS	SCT	SCT	FWS	FWS	FWS
7	ODISHA	FWS	WS	WS	FWS	FWS	FWS	FWS
8	JHARKHAND	WS	FWS	SCT	SCT	SCT	SCT	SCT
9	BIHAR	FWS	FWS	SCT	ISOL	ISOL	SCT	SCT
10	EAST UTTAR PRADESH	FWS	FWS	FWS	SCT	SCT	SCT	SCT
11	WEST UTTAR PRADESH	SCT	SCT	SCT	SCT	SCT	SCT	SCT
12	UTTARAKHAND	FWS	FWS	FWS	FWS	FWS	FWS	FWS
13	HARYANA CHANDIGARH & DELHI	SCT	ISOL	ISOL	ISOL	FWS	FWS	FWS
14	PUNJAB	SCT	SCT	ISOL	ISOL	SCT	SCT	SCT
15	HIMACHAL PRADESH	FWS	SCT	ISOL	SCT	FWS	FWS	FWS
16	JAMMU & KASHMIR AND LADAKH	SCT	ISOL	ISOL	ISOL	ISOL	SCT	SCT
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
18	EAST RAJASTHAN	SCT	SCT	SCT	FWS	FWS	FWS	FWS
19	WEST MADHYA PRADESH	FWS	WS	WS	WS	WS	WS	WS
20	EAST MADHYA PRADESH	WS	WS	WS	FWS	FWS	FWS	FWS
21	GUJARAT REGION	WS	FWS	WS	WS	WS	WS	WS
22	SAURASHTRA & KUTCH	FWS	SCT	SCT	WS	WS	WS	WS
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	FWS	WS	WS	WS	FWS	FWS
25	MARATHAWADA	SCT	FWS	WS	WS	FWS	FWS	FWS
26	VIDARBHA	FWS	WS	WS	WS	WS	WS	WS
27	CHHATTISGARH	WS	WS	WS	FWS	FWS	FWS	FWS
28	COASTAL ANDHRA PRADESH & YANAM	FWS	FWS	WS	FWS	FWS	SCT	SCT
29	TELANGANA	FWS	FWS	FWS	FWS	SCT	SCT	SCT
30	RAYALASEEMA	SCT	FWS	WS	FWS	FWS	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	FWS	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

\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".  
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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

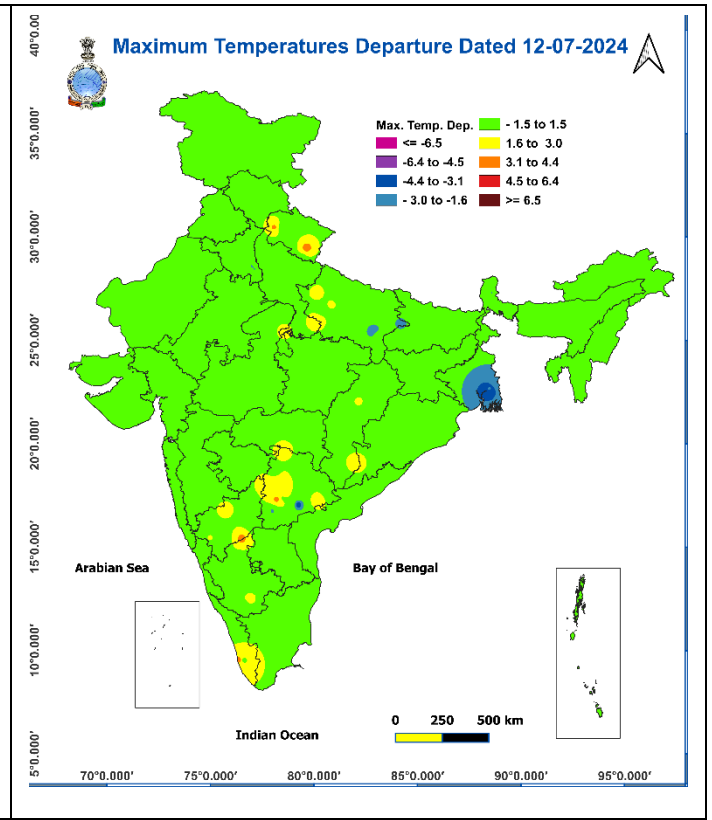
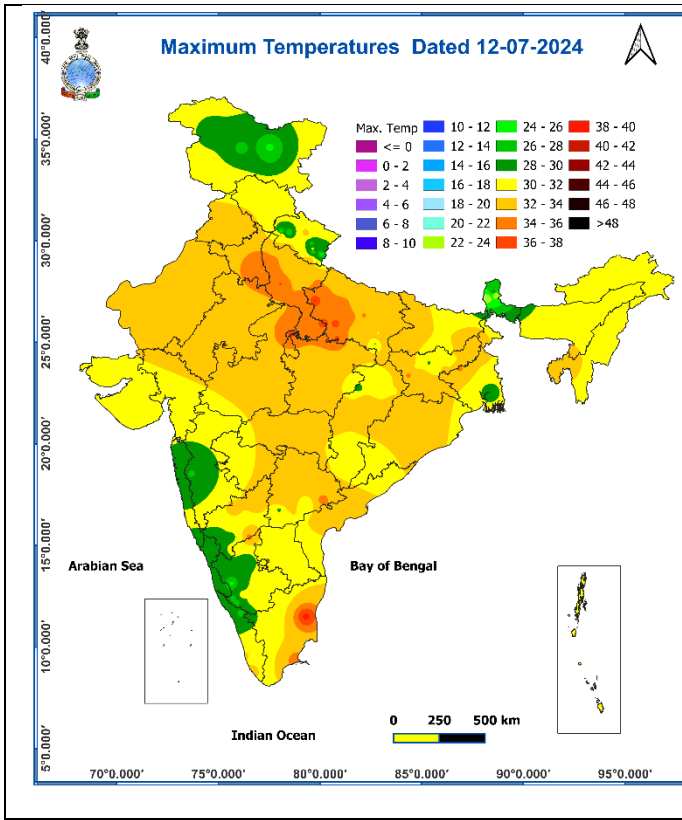


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

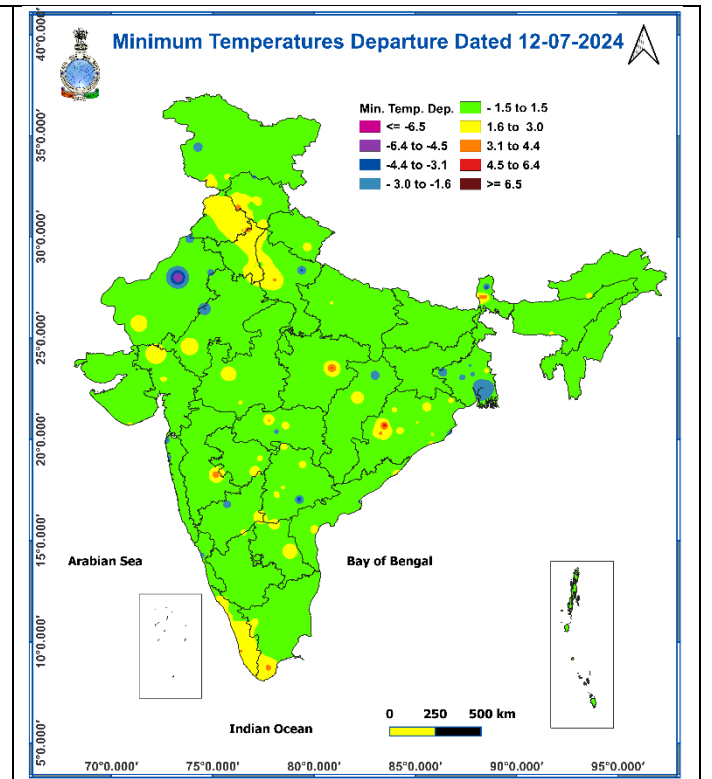
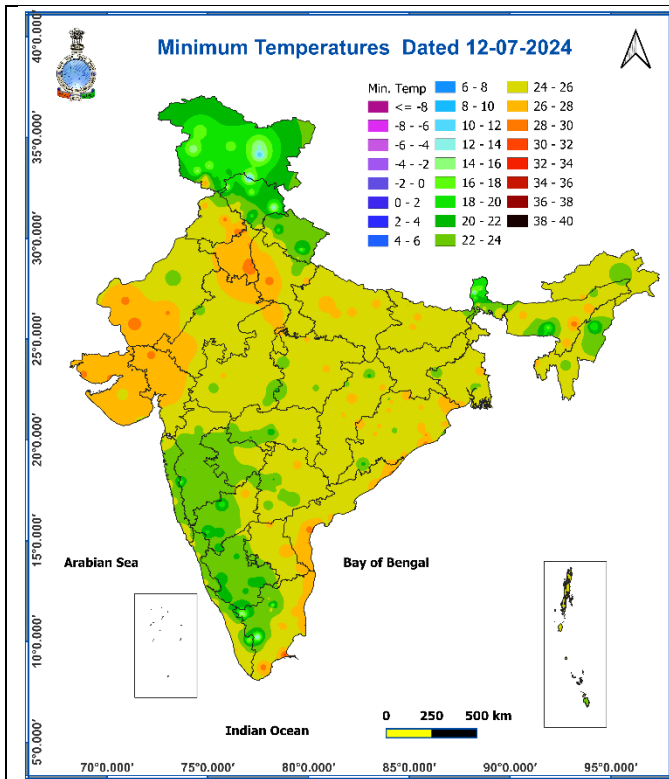
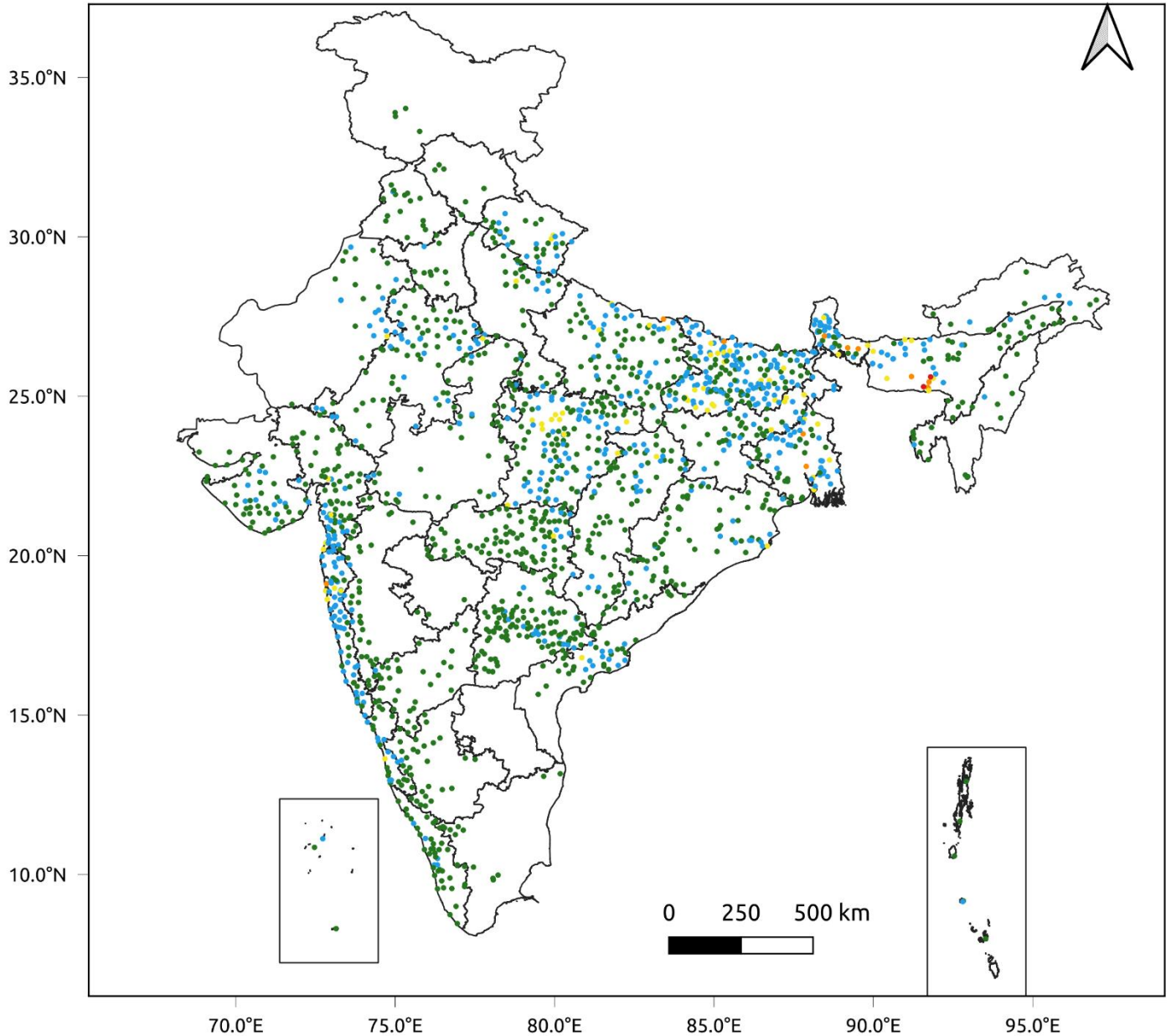


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

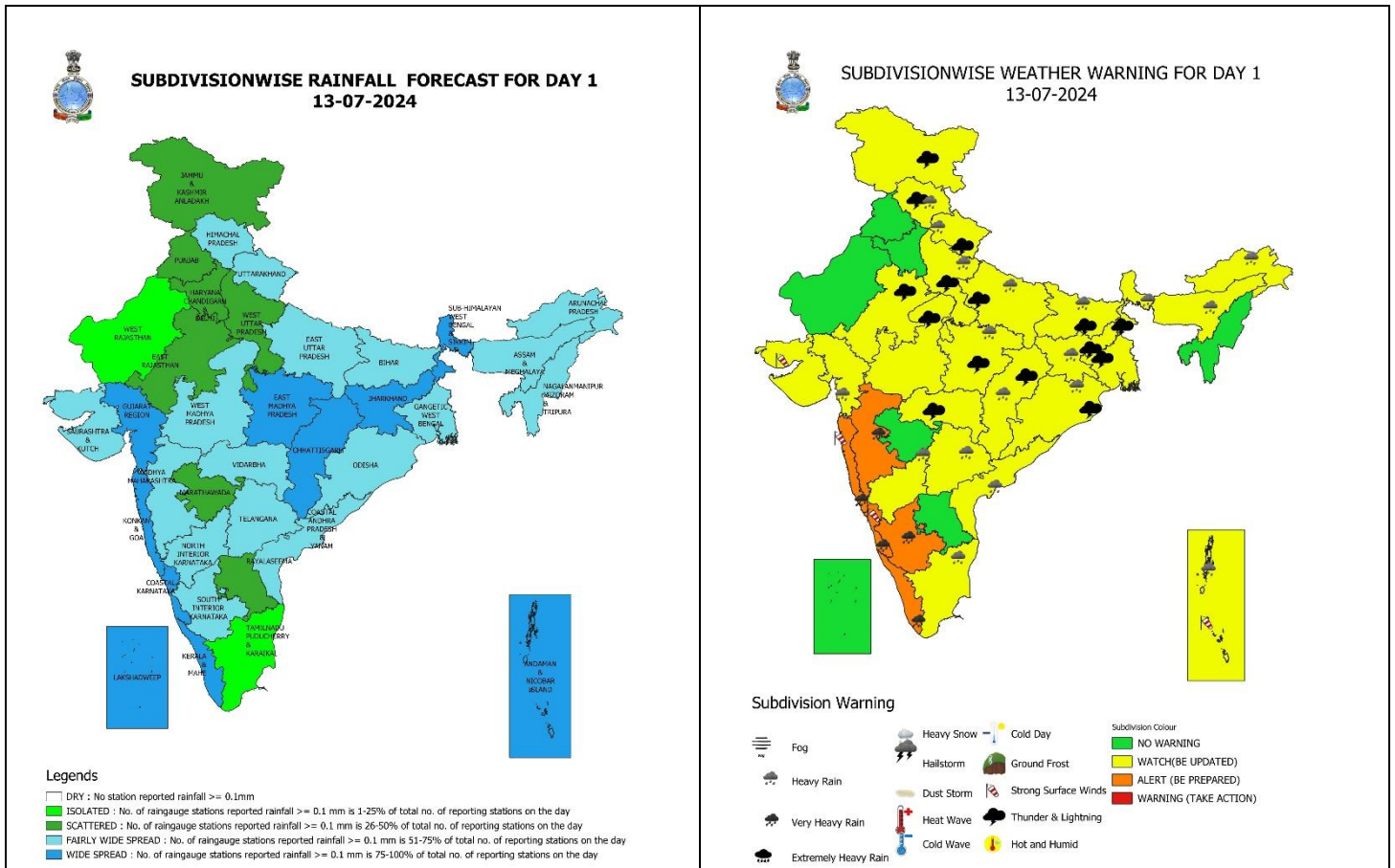


## 24 Hr cumulative rainfall recorded over different stations during 0830 IST of 11-7-2024 to 0830 IST of 12-7-2024



### Legends

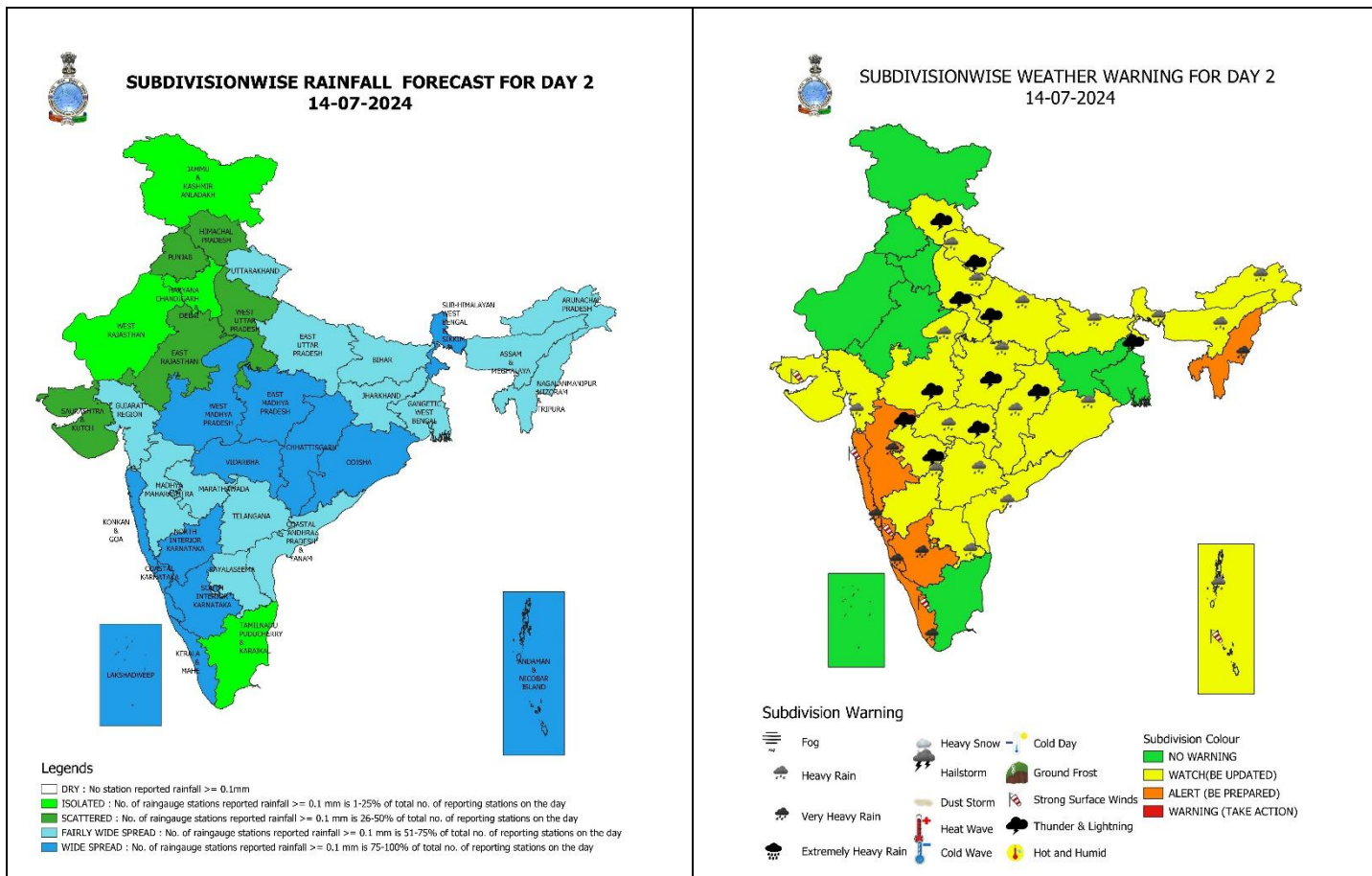
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall ( $\geq 204.5$  mm)



**13 July (Day 1):**

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

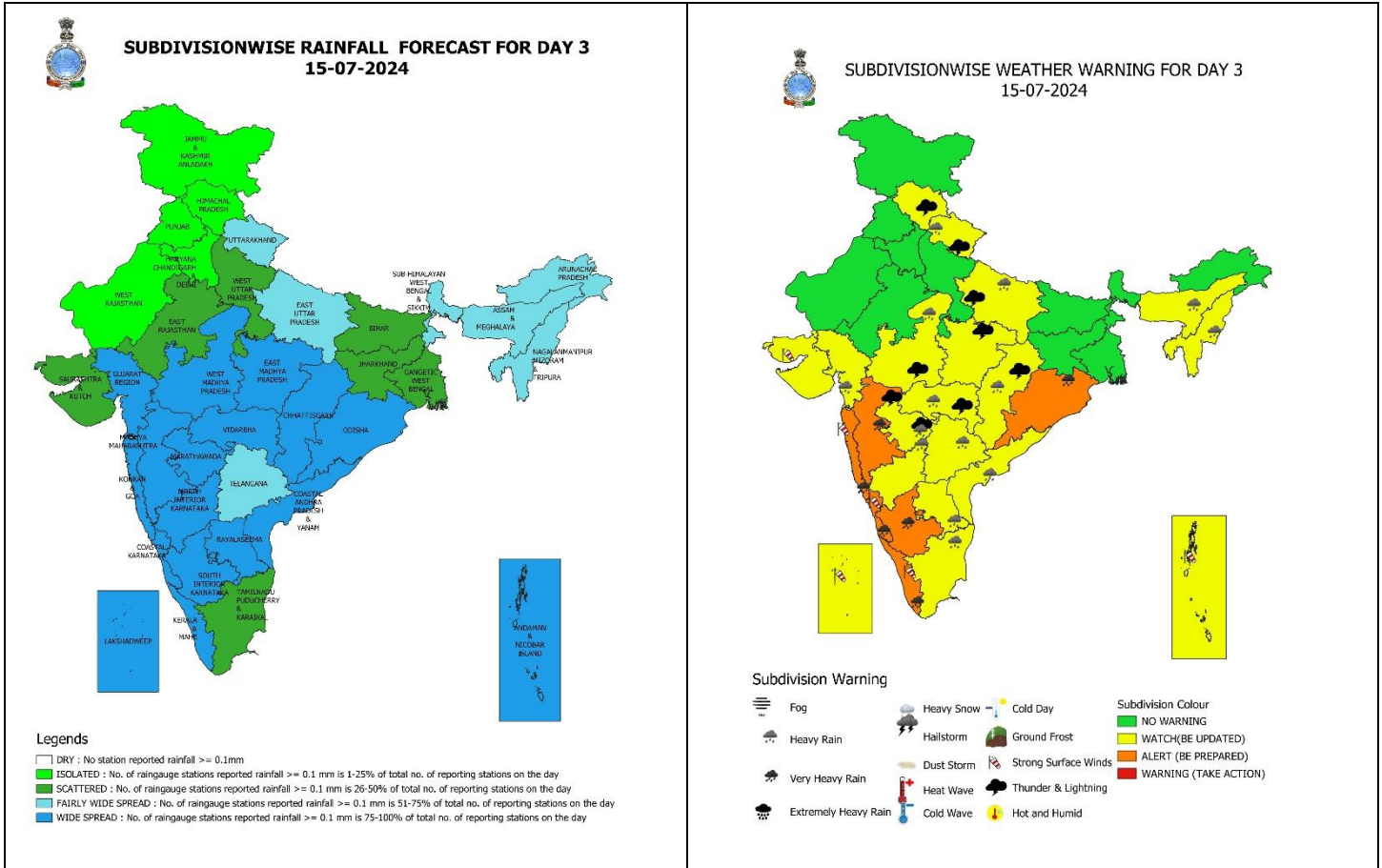
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**14 July (Day 2):**

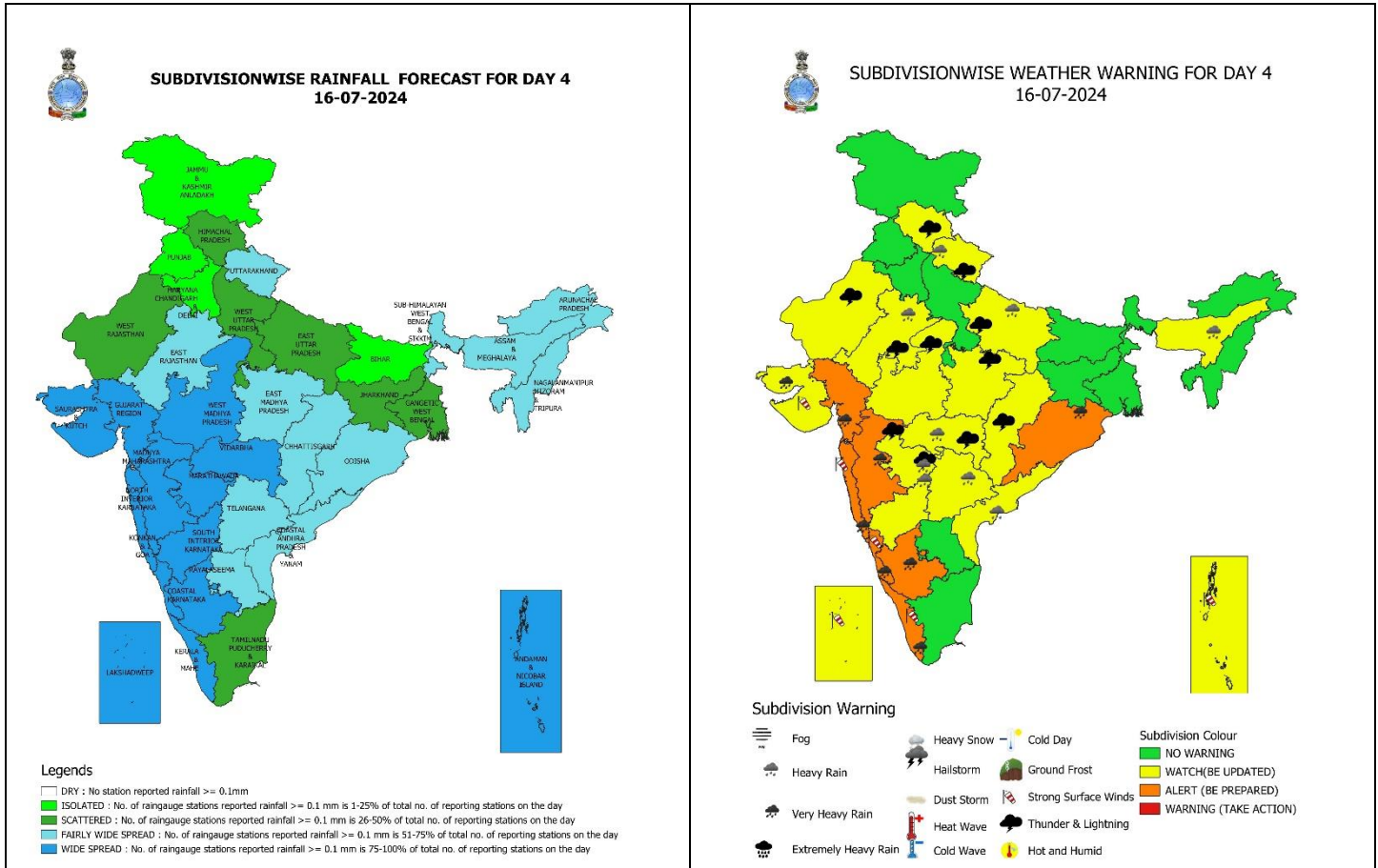
- ❖ **Heavy to very heavy rainfall** very likely at a few places over Konkan & Goa; at isolated places over Nagaland, Madhya Maharashtra, Kerala & Mahe, Telangana and South Interior Karnataka; **Heavy rainfall** at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh,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

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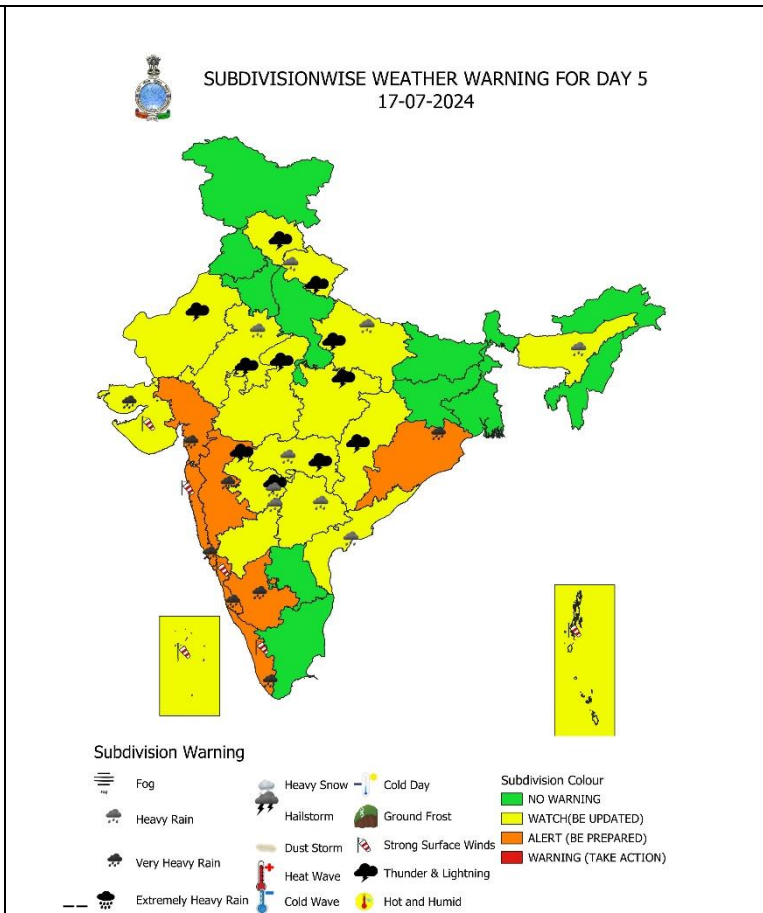
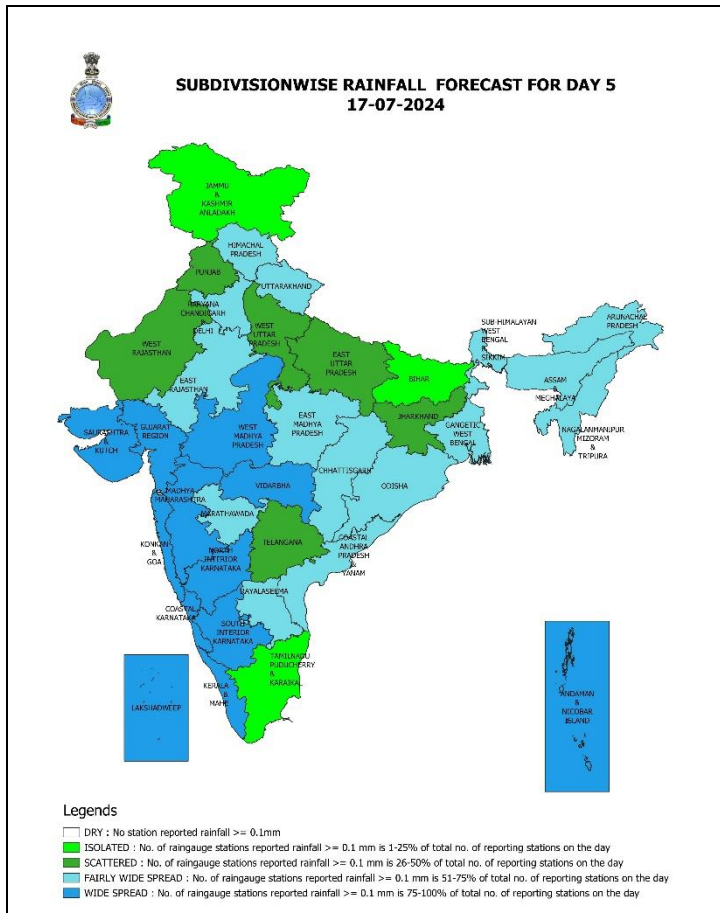
**15 July (Day 3):**

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



**16 July (Day 4):**

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

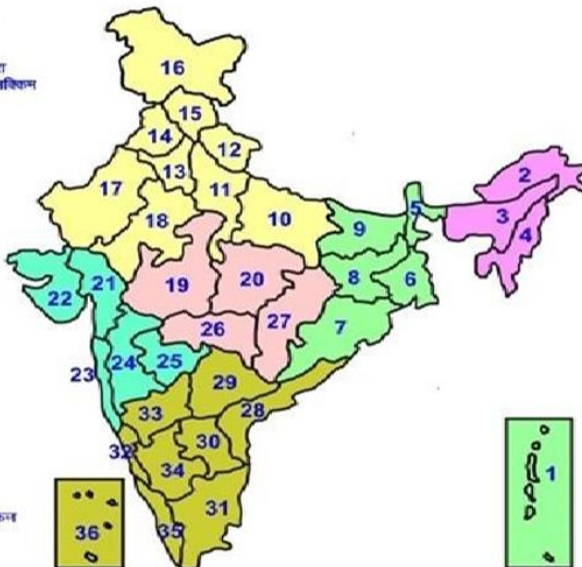


**17 July (Day 5):**

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Odisha, Konkan & Goa, Madhya Maharashtra, Gujarat state, Kerala & Mahe, Coastal & South Interior Karnataka; **Heavy rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, East Rajasthan, Vidarbha, Assam & Meghalaya, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** likely at isolated places over Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra and Marathwada.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over adjoining northeast Arabian sea, eastcentral & adjoining southeast Arabian sea and along & off south Gujarat coast, Maharashtra goa, Karnataka & Kerala coasts and gulf of Mannar & 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 west central and adjoining east central Bay of Bengal adjoining off south coastal Andhra Pradesh and north Tamilnadu coast **squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over westcentral & adjoining areas of eastcentral, adjoining southeast & southwest Arabian sea and along & off Somalia coast & south 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, 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 केरल
- 32 उत्तरि कर्नाटक
- 33 अंतरि कर्नाटक
- 34 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

\* 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  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
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  $40^\circ\text{C}$

Warm Night: When minimum temperature departure  $4.5^\circ\text{C}$  to  $6.4^\circ\text{C}$ .  
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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
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  $-4.5^\circ\text{C}$  to  $-6.4^\circ\text{C}$ .  
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)