

Monday, July 8, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems and Forecast & Warnings:

❖ Northwest & Central India

- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm & lightning very likely over Uttarakhand, Uttar Pradesh and Central India; scattered to fairly widespread light to moderate rainfall over Himachal Pradesh, Haryana-Chandigarh-Delhi, East Rajasthan; isolated to scattered light to moderate rainfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab and West Rajasthan during next 5 days.
- ✓ Isolated heavy rainfall very likely over Himachal Pradesh and Rajasthan during 10th -12th; Uttarakhand on 08th, 10th, 11th & 12th; Punjab on 08th; Haryana-Chandigarh on 11th & 12th; Uttar Pradesh on 08th & 09th; Madhya Pradesh during 08th-12th; Vidarbha & Chhattisgarh during 08th-09th July.
- ✓ **Isolated very heavy rainfall also likely over Uttar Pradesh during 10th -12th July.**

❖ 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 **heavy rainfall** very likely over Bihar, Odisha on 08th; Arunachal Pradesh on 11th & 12th; Assam & Meghalaya during 10th -12th; Nagaland, Manipur, Mizoram & Tripura during 08th-12th July.
- ✓ **Isolated very heavy rainfall also likely over Bihar during 09th-12th; Nagaland on 08th; Arunachal Pradesh during 08th-10th; Assam & Meghalaya on 08th & 09th July; Sub-Himalayan West Bengal & Sikkim during next 5 days.**

❖ 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, Coastal Karnataka; scattered to fairly widespread light to moderate rainfall over Marathwada, Gujarat Region, Coastal Andhra Pradesh & Yanam, Telangana and Interior Karnataka; isolated to scattered light to moderate rainfall over Tamil Nadu, Puducherry & Karaikal and Rayalaseema during next 5 days.
- ✓ Isolated **heavy rainfall** very likely over Konkan & Goa & Madhya Maharashtra during 09th-12th; Gujarat Region on 09th; Kerala & Mahe on 08th; Telangana on 08th & 09th; Coastal Karnataka on 09th; North Interior Karnataka on 10th; South Interior Karnataka on 08th & 10th July.
- ✓ **Isolated very heavy rainfall also very likely over Ghat areas of Madhya Maharashtra, Konkan & Goa on 08th; Coastal Karnataka on 08th, 10th, 11th & 12th July.**

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at **most places** over Uttarakhand and Sub-Himalayan West Bengal & Sikkim; at **many places** over East Uttar Pradesh, Odisha, Konkan & Goa and Coastal Karnataka; at **a few places** over West Uttar Pradesh, Bihar, Assam & Meghalaya, Gangetic West Bengal, East Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe; at **isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, West Rajasthan, Haryana-Chandigarh-Delhi, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, Marathwada, Madhya Maharashtra, Interior Karnataka, Telangana and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy to very heavy rainfall** at isolated places over Konkan & Goa; **Heavy rainfall** at isolated places over Coastal Karnataka.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Konkan & Goa:** Panjim-13; **Coastal Karnataka:** Shirala, Honavar-7 each, Karwar & Mangalore-4 each; **Madhya Pradesh:** Seoni-6, Satna-4, Khajuraho-3 and Gwalior-2; **Uttarakhand:** Pantnagar & Dehradun-5 each, Mukteshwar-4; **West Uttar Pradesh:** Moradabad-5; **Odisha:** Bhubhneswar-5, Jajpur, Gopalpur & Phulbani-2 each; **Nagaland, Manipur, Mizoram & Tripura:** Aizwal-3; **Assam & Meghalaya:** Golaghat-2; **Sub-Himalayan West Bengal & Sikkim:** Jalpaiguri-2; **Gangetic West Bengal:** Haldia-2; **East Uttar Pradesh:** Varanasi-4, Sultanpur-3 and Bahraich-2; **Vidarbha:** Amrawati-5; **Madhya Maharashtra:** Mahabaleshwar & Ratnagiri-3 each and Kolhapur-2.
- ❖ **Reported maximum wind speed (in kmph)** (from 0830 hours IST to 1730 hours IST of yesterday): **Jammu-Kashmir:** Baramulla-57, Kulgama-50; **Ladakh:** Padum-67, chuchot_yokma-57; **Uttar Pradesh:** Agra-52; **Maharashtra:** Nimgiri, Junnar and mahabaleshwar-46 each; **Gujarat:** Maktampur-46; **Telangana:** Kaveri_Siddipit and दौरा-48 each; **Andhra Pradesh:** Badvel-48, Dharmavarm and utkuru-46 each; **Karnataka:** Gadag and davanajere-46 each; **Kerala:** Padinjarathara-50, Mannarkkad-48; **Tamil Nadu:** Kadavur-50, ranipet-46.
- ❖ **Minimum Temperature Departures (as on 07-07-2024):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Saurashtra & Kutch; at isolated places over Himachal Pradesh, Rajasthan, Gujarat Region, East Madhya Pradesh & Madhya Maharashtra. These were **below normal (-1.6°C to -3.0°C)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, Uttar Pradesh, Telangana & Lakshadweep and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 18.6°C was reported at **Valsad Bulsar (Gujarat Region)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 07-07-2024):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Odisha; at a few places over Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe; at isolated places over Assam & Meghalaya and Chhattisgarh. These were **markedly below normal (-5.1°C & below)** at isolated places over Uttar Pradesh, East Rajasthan; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over East Madhya Pradesh, Coastal Andhra Pradesh & Yanam and North Interior Karnataka; **below normal (-1.6°C to -3.0°C)** at a few places over West Rajasthan, Vidarbha and Coastal Karnataka; at isolated places over West Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Bihar, Uttarakhand, Himachal Pradesh, Punjab and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature** of 40.3°C was reported at **Madurai (Tamil Nadu)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Monsoon trough at mean sea level continues to pass through Bikaner, Sikar, Gwalior, Sidhi, Daltonganj, Contai and thence southeastwards to northeast Bay of Bengal extending upto 0.9 km above mean sea level.
- ❖ The Western Disturbance as a cyclonic circulation over Central Pakistan & neighbourhood at 3.1 km above mean sea level with a trough aloft in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 72°E to the north of Lat. 32°N persists.
- ❖ The cyclonic circulation over northeast Rajasthan & neighbourhood extending upto 4.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Assam & 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 cyclonic circulation over Westcentral Bay of Bengal off south Andhra Pradesh coast at 5.8 km above mean sea level persists.

Weather Forecast for next 7 days (Upto 0830 hours IST of 15th 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 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 15th-17th 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	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	SCT	SCT	SCT	FWS	FWS	FWS
2	ARUNACHAL PRADESH	WS	WS	WS	WS	WS	WS	WS
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	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	WS	WS	WS
6	GANGETIC WEST BENGAL	SCT	SCT	FWS	FWS	FWS	FWS	FWS
7	ODISHA	FWS	SCT	SCT	FWS	FWS	FWS	FWS
8	JHARKHAND	ISOL	ISOL	SCT	FWS	FWS	FWS	FWS
9	BIHAR	FWS	WS	WS	WS	FWS	FWS	FWS
10	EAST UTTAR PRADESH	FWS	FWS	WS	WS	FWS	FWS	FWS
11	WEST UTTAR PRADESH	FWS	FWS	WS	WS	FWS	SCT	ISOL
12	UTTARAKHAND	FWS	FWS	FWS	FWS	FWS	FWS	FWS
13	HARYANA CHANDIGARH & DELHI	SCT	ISOL	ISOL	FWS	SCT	SCT	SCT
14	PUNJAB	SCT	ISOL	ISOL	SCT	SCT	SCT	SCT
15	HIMACHAL PRADESH	SCT	SCT	FWS	FWS	SCT	SCT	SCT
16	JAMMU & KASHMIR AND LADAKH	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	SCT	FWS	FWS	SCT	SCT	SCT	ISOL
19	WEST MADHYA PRADESH	FWS	WS	WS	WS	FWS	FWS	FWS
20	EAST MADHYA PRADESH	WS	WS	WS	WS	WS	WS	WS
21	GUJARAT REGION	SCT	SCT	SCT	FWS	WS	WS	WS
22	SAURASHTRA & KUTCH	SCT	SCT	SCT	SCT	FWS	FWS	FWS
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	FWS	FWS	FWS	FWS	FWS	FWS
25	MARATHAWADA	FWS	SCT	SCT	SCT	SCT	FWS	FWS
26	VIDARBHA	WS	WS	WS	FWS	FWS	FWS	FWS
27	CHHATTISGARH	WS	WS	FWS	FWS	FWS	FWS	FWS
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	SCT	SCT	SCT	SCT	SCT
29	TELANGANA	FWS	FWS	SCT	SCT	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	SCT	SCT	FWS	FWS	FWS	FWS	FWS
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	FWS	WS	FWS	FWS	FWS
35	KERALA & MAHE	WS	WS	FWS	FWS	FWS	WS	WS
36	LAKSHADWEEP	WS	FWS	FWS	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

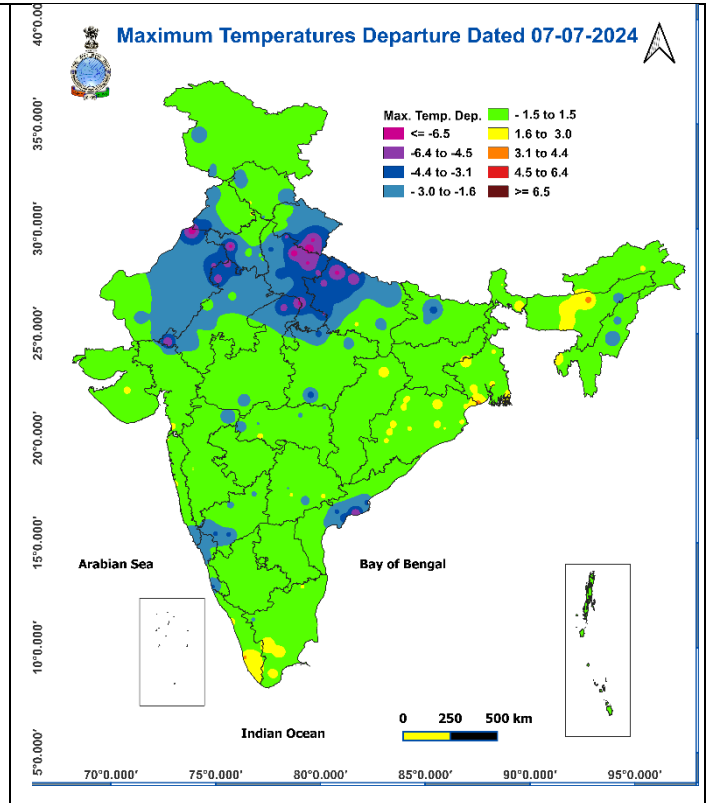
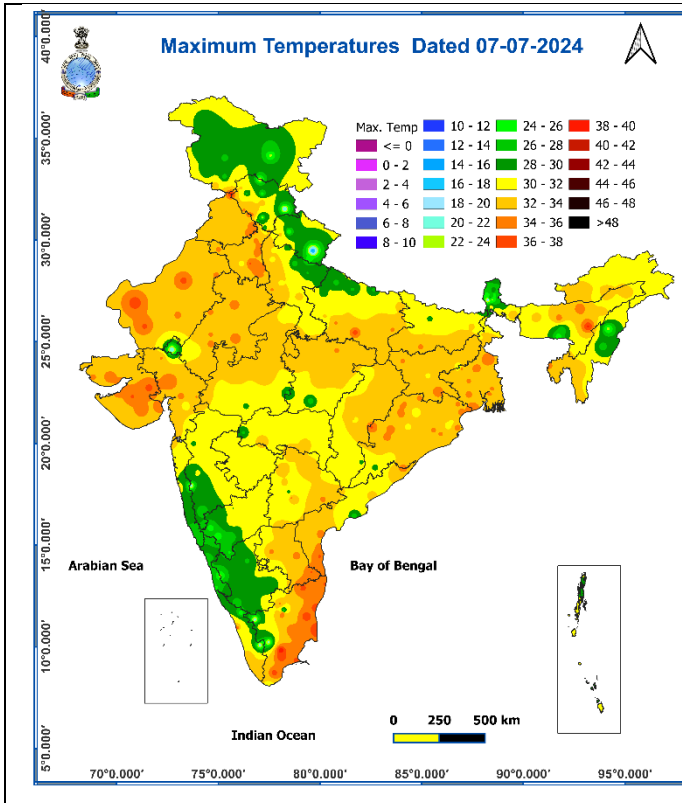


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

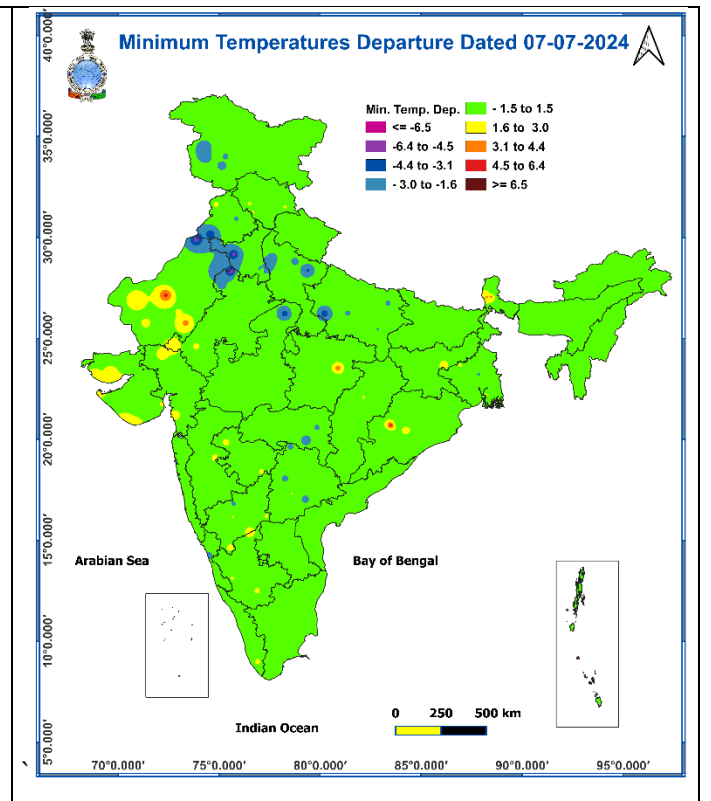
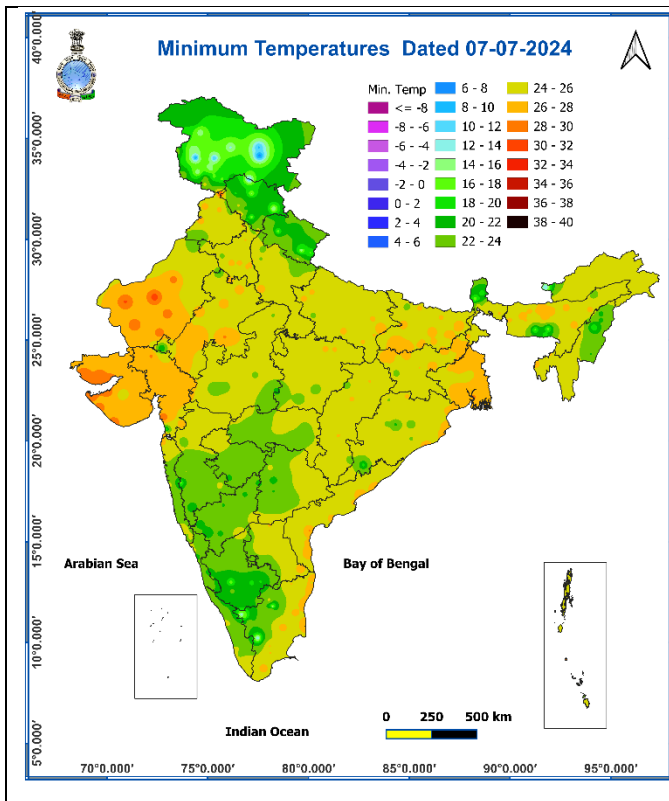
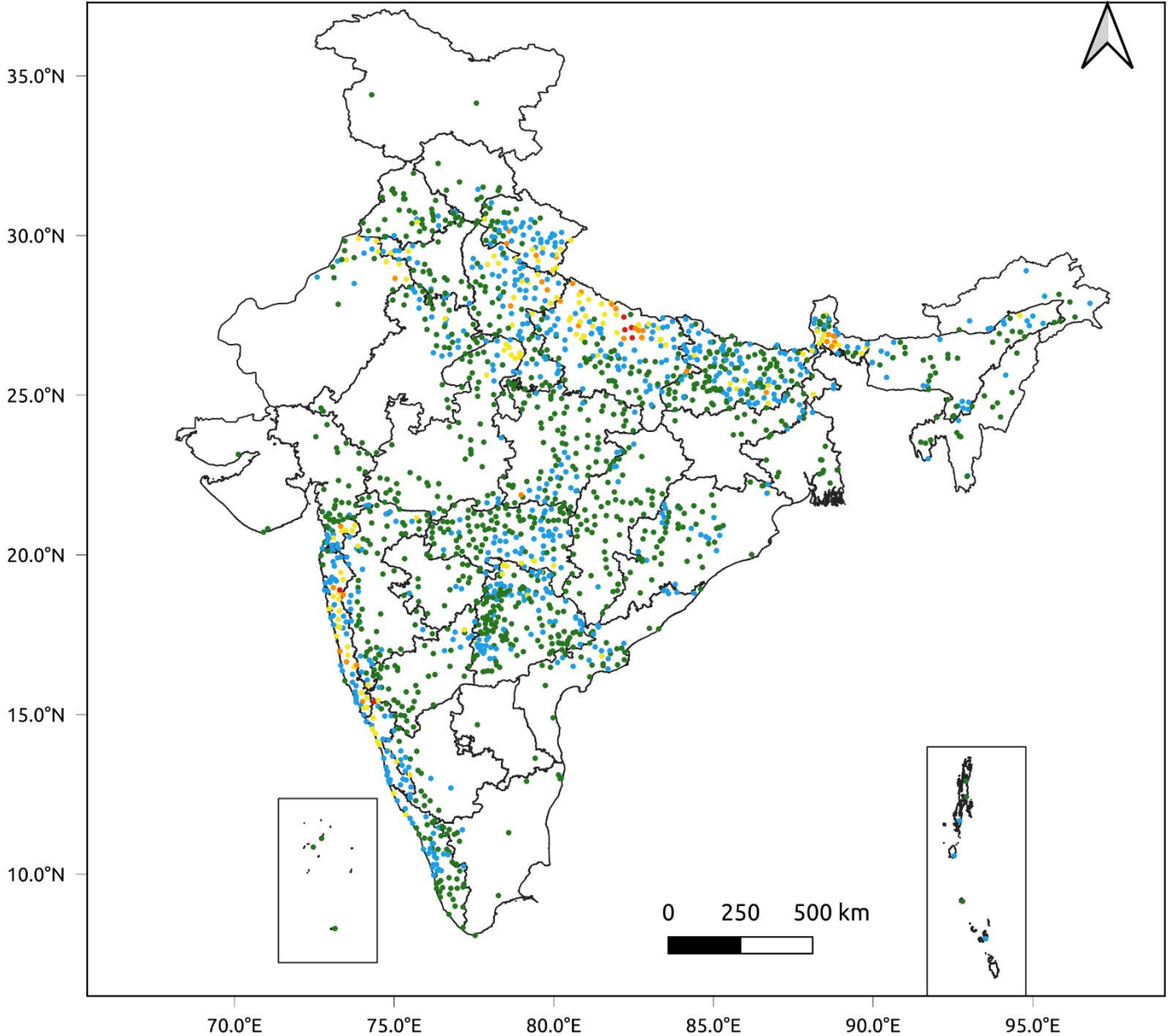


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



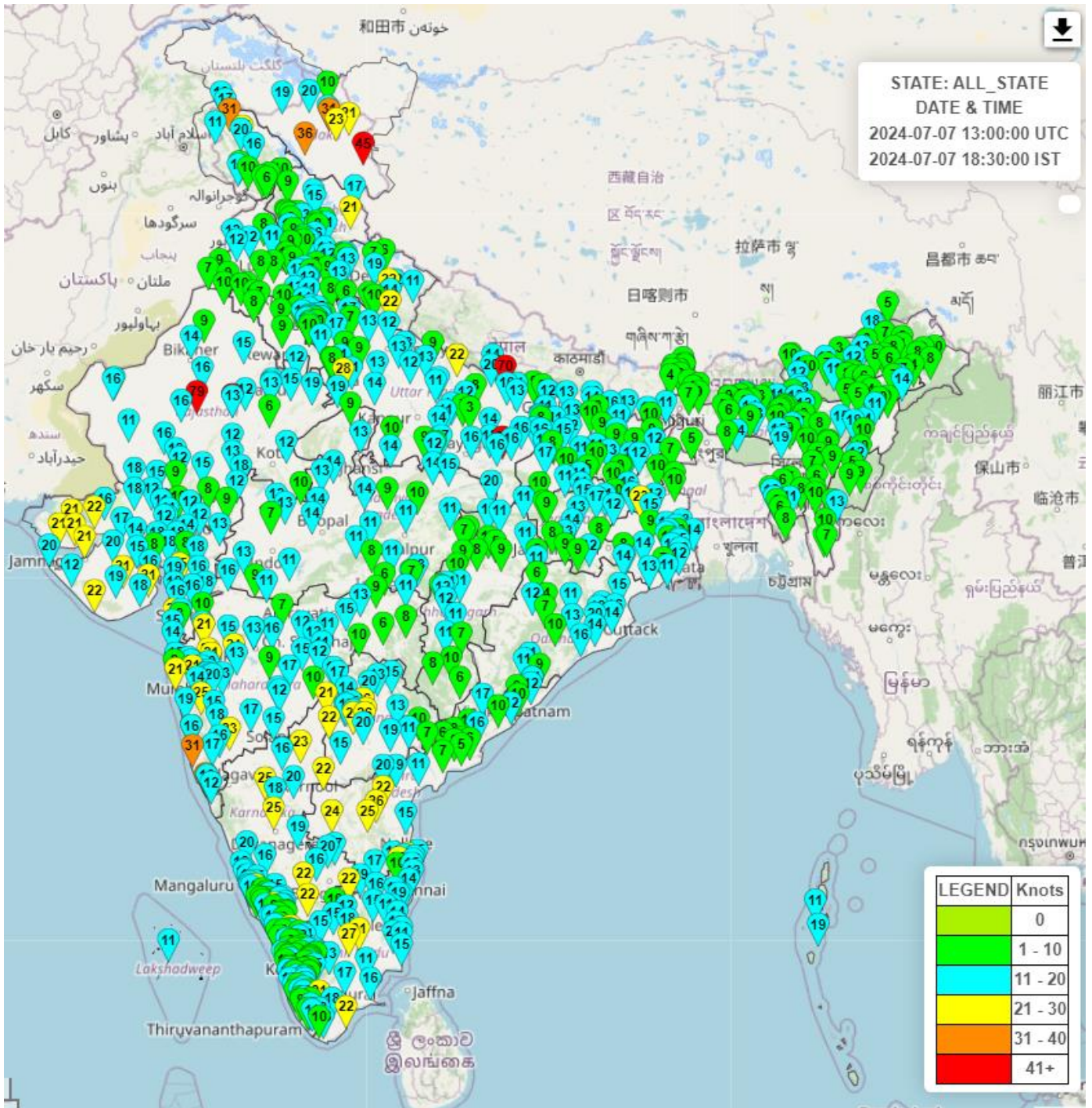
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 6-7-2024 to 0830 IST of 7-7-2024



Legends

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

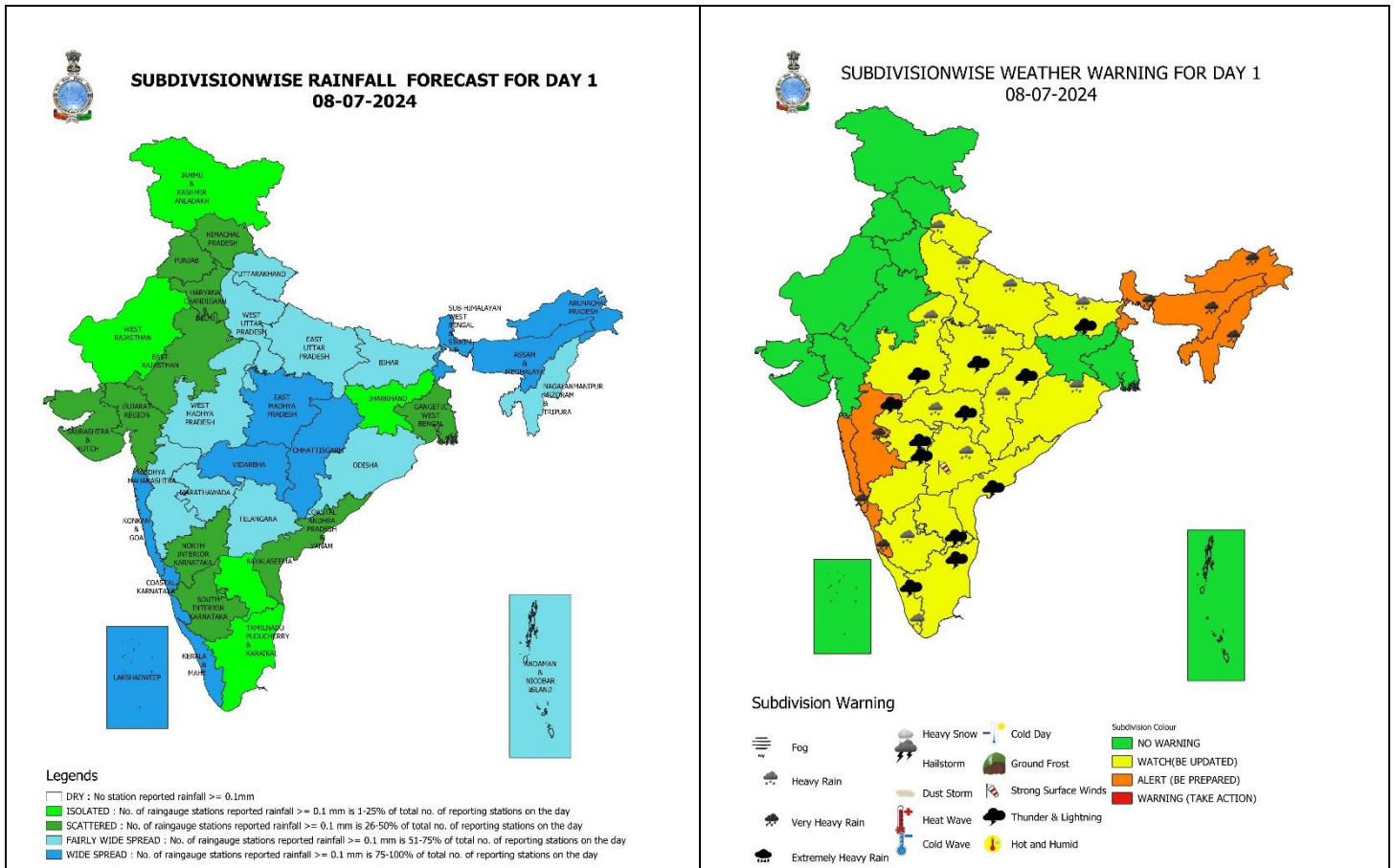
Fig. 6: Gusty winds reported over the country (in knots) from 0830 hours IST to 1830 hours IST of 07.07.2024



1 Knot = 1.852 kmph

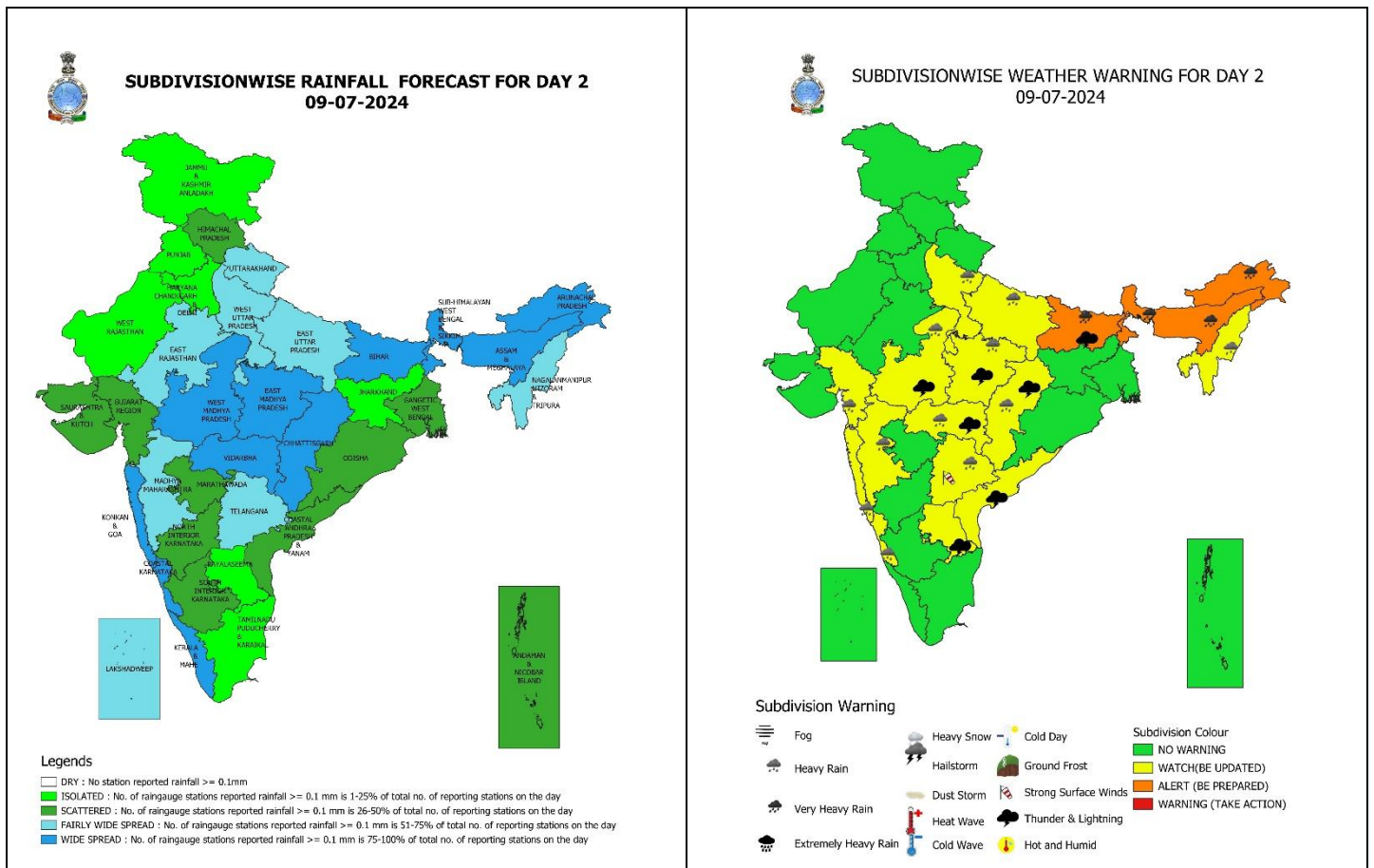
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08 July (Day 1):

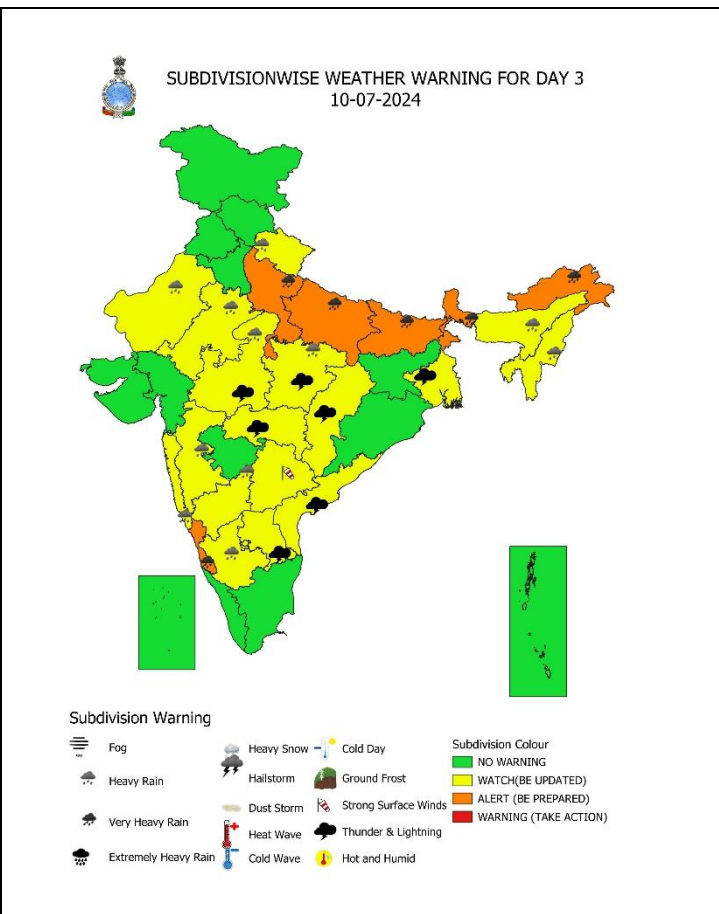
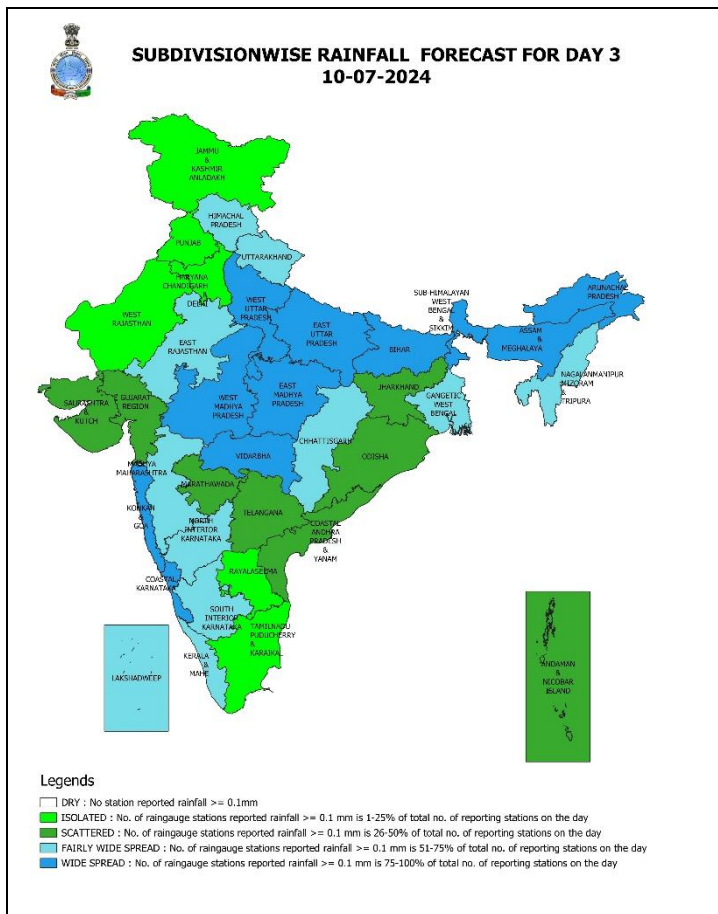
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Konkan & Goa, Madhya Maharashtra, Telangana; **Heavy rainfall** at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Manipur, Kerala & Mahe, Telangana and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Telangana; **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and North Interior Karnataka.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast & southwest Arabian sea, along and off Gujarat and north Maharashtra coasts, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central Bay of Bengal and southern parts of northwest Bay of Bengal. **Squally 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, over westcentral Arabian sea, most parts of eastcentral Arabian sea, southern parts of north Arabian sea, along and off Yemen and Oman coasts. Fishermen are advised not to venture into these areas.



09 July (Day 2):

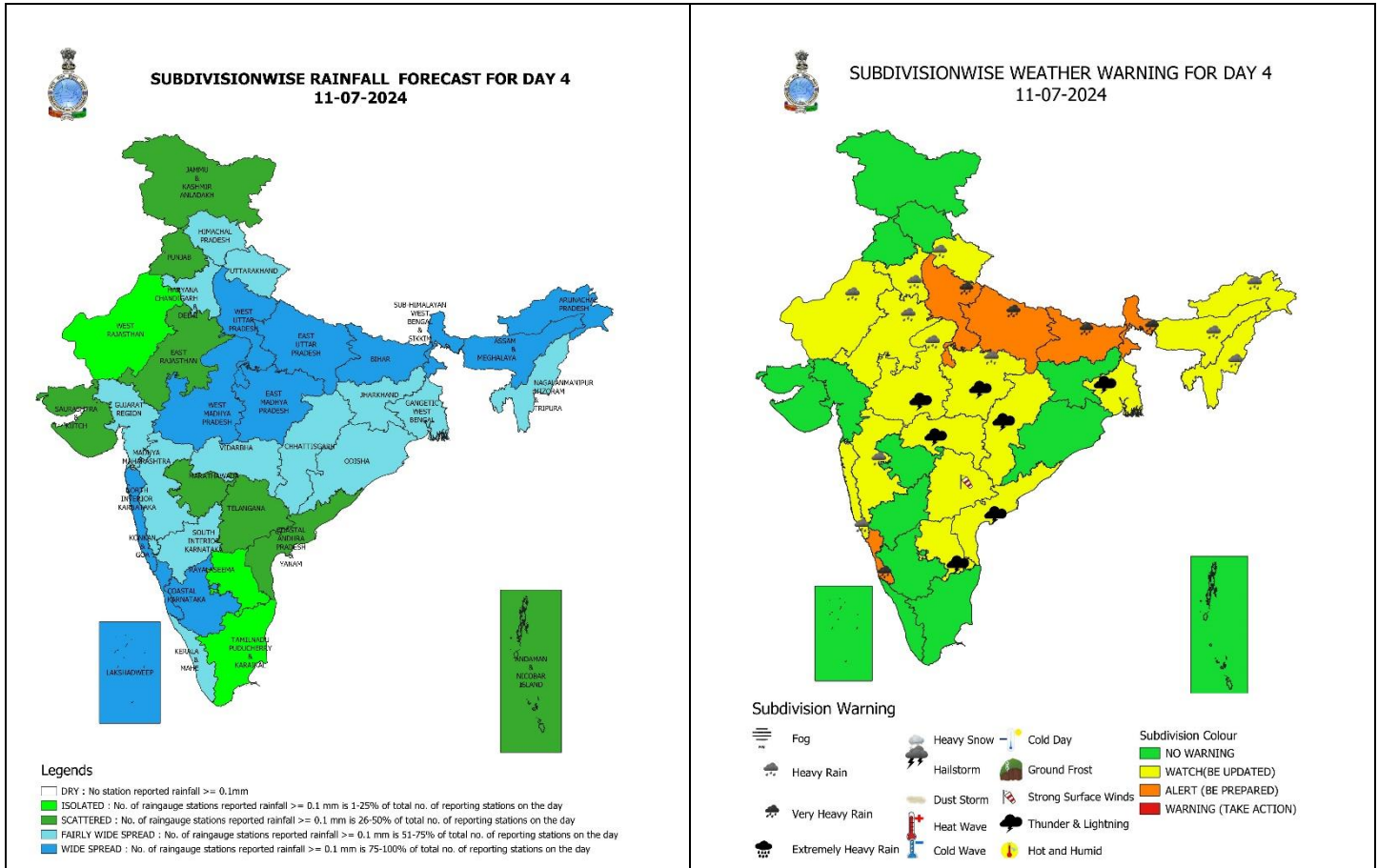
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh and Assam & Meghalaya; **Heavy rainfall** at isolated places over, Uttar Pradesh, Nagaland, Manipur, Madhya Pradesh, Vidarbha, Chhattisgarh Madhya Maharashtra, Gujarat Region, Konkan & Goa, Telangana Kerala & Mahe and Coastal Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Telangana; **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast & southwest Arabian sea, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central Bay of Bengal and southern parts of northwest 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, over westcentral Arabian sea, along and off Yemen and south Oman coasts. Fishermen are advised not to venture into these areas.

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10 July (Day 3):

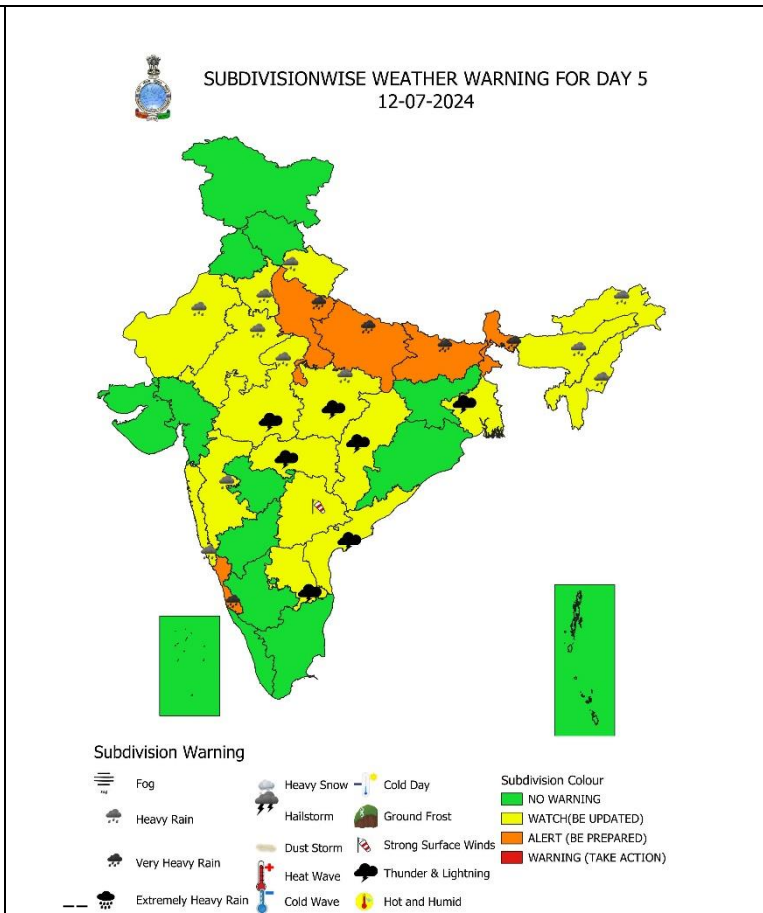
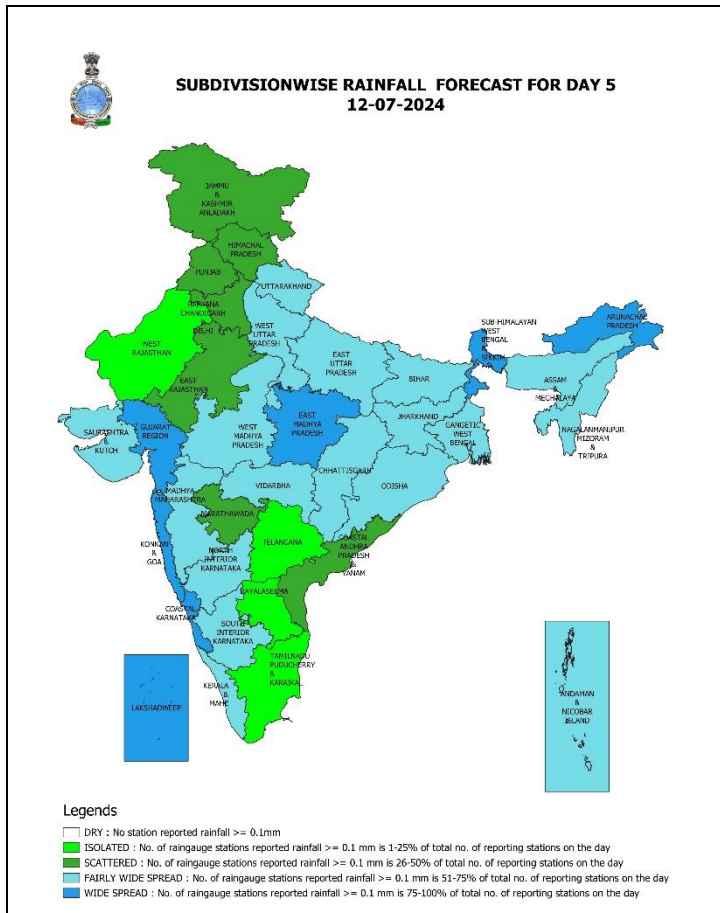
- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh and Coastal Karnataka; **Heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Assam & Meghalaya, Nagaland, Konkan & Goa, Madhya Maharashtra and Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Telangana; **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over southern parts of northeast Arabian sea and adjoining northwest Arabian sea, eastcentral and adjoining westcentral Arabian sea, northern parts of southeast & southwest Arabian sea, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central Bay of Bengal and southern parts of northwest Bay of Bengal. **Squally 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, over westcentral Arabian sea, along and off Yemen and south Oman coasts. Fishermen are advised not to venture into these areas.



11 July (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar and Coastal Karnataka; **Heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Rajasthan, Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Konkan & Goa and Madhya Maharashtra.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Telangana; **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ **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 Arabian sea, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central Bay of Bengal and southern parts 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, over westcentral Arabian sea, along and off Yemen and south Oman coasts. Fishermen are advised not to venture into these areas.

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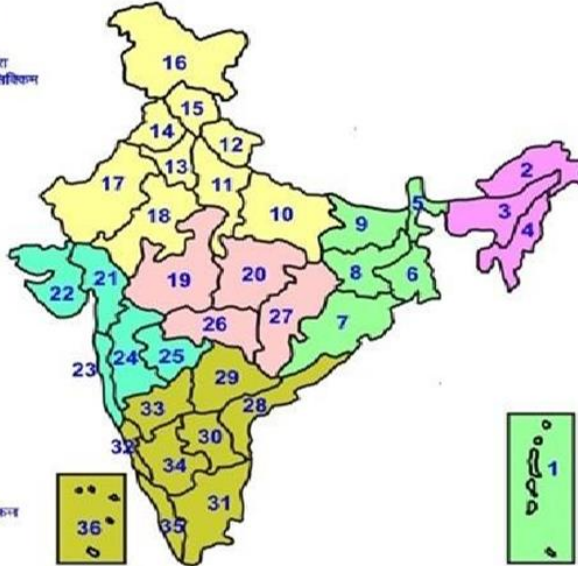
12 July (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar and Coastal Karnataka; **Heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Rajasthan, Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Konkan & Goa and Madhya Maharashtra.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Telangana; **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- ❖ **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 Arabian sea, gulf of Mannar, off Sri Lanka coast, southwest & adjoining southeast Bay of Bengal, most parts of central Bay of Bengal and southern parts 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, over westcentral Arabian sea, along and off Yemen and south Oman coasts. Fishermen are advised not to venture into these areas.

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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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- 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. Tamilnada, 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)