

Tuesday, June 4, 2024
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Advance of Southwest Monsoon:

- ❖ The Northern Limit of Monsoon continues to pass through 15.5°N/60°E, 15.5°N/65°E, 15°N/70°E, Honnavar, Ballari, Kurnool, Narsapur 17°N/85°E, 19.5°N/88°E 21.5°N/90°E, 23°N/89.5°E and Islampur.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into remaining parts of central Arabian Sea, remaining parts of Karnataka, some parts of south Maharashtra, goa, remaining parts Rayalaseema, Telangana & Coastal Andhra Pradesh, some parts of south Chhattisgarh and south Odisha, some more parts of Westcentral and Northwest Bay of Bengal during next 3-4 days.

Weather Systems and Forecast & Warnings:

A cyclonic circulation lies over northeast Assam in lower tropospheric levels. Strong southwesterly/southerly winds are prevailing from Bay of Bengal to northeastern States in lower tropospheric levels. Under their influence:

- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during next 7 days.
- ✓ Isolated **heavy to very heavy rainfall** very likely over Assam & Meghalaya during 04th-05th with heavy rainfall on 06th & 07th; isolated **heavy rainfall** over Sub-Himalayan West Bengal & Sikkim during 04th-06th; Arunachal Pradesh on 04th and Nagaland, Manipur, Mizoram & Tripura on 05th & 06th June.
- ❖ A cyclonic circulation lies over Kerala & neighbourhood and another cyclonic circulation lies over westcentral Bay of Bengal adjoining southwest Bay of Bengal off south Coastal Andhra Pradesh-north Tamil Nadu in lower tropospheric levels. Strong westerly winds are prevailing along Kerala Coast. Under its influence:
 - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** likely over Kerala & Mahe, Lakshadweep, Andaman & Nicobar Islands, Karnataka; scattered to fairly widespread light to moderate rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh, Telangana, Rayalaseema during next 5 days.
 - ✓ Isolated **heavy rainfall** very likely over Kerala & Mahe, South Interior Karnataka during 04th-08th; Tamil Nadu on 05th; Telangana during 04th-06th; North Interior Karnataka during 04th-06th & 08th; Coastal Karnataka on 04th & 08th; Coastal Andhra Pradesh, Rayalaseema on 06th June, 2024.
- ❖ A cyclonic circulation lies over East Uttar Pradesh and a trough runs from this cyclonic circulation over East Uttar Pradesh to North Interior Karnataka in lower tropospheric levels. Under its influence:
 - ✓ Isolated to scattered light/moderate Scattered to fairly widespread light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Bihar, Jharkhand, Gangetic West Bengal on 04th; over Chhattisgarh, Odisha, Vidarbha, Madhya Pradesh, Madhya Maharashtra, Marathwada during next 5 days; Konkan & Goa during 04th-05th June.
 - ✓ Fairly widespread light to moderate rainfall with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Konkan & Goa during 06th-08th June, 2024.
 - ✓ Isolated **heavy rainfall** very likely over south Madhya Maharashtra on 04th & 08th and south Konkan & Goa on 08th June.
- ❖ A cyclonic circulation lies over northwest Uttar Pradesh and another over northwest Madhya Pradesh in lower tropospheric levels. A fresh western disturbance is likely to affect Western Himalayan Region and adjoining plains from 04th June, 2024. Prevailing southwesterly Arabian Sea winds over the plains of Northwest India are likely to continue during next 7 days. Under their influence:
 - ✓ Isolated to scattered light rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during next 5 days.
 - ✓ Isolated very light to light rainfall with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Punjab, Haryana during 04th-06th; Uttar Pradesh during 04th-05th and Rajasthan during 05th-07th June.
 - ✓ **Duststorm** very likely over Uttar Pradesh on 04th; Punjab, Haryana-Chandigarh-Delhi on 04th & 05th and East Rajasthan on 07th June, 2024.

Maximum temperature observation:

- ❖ Yesterday, Maximum temperatures were in the range 43-46°C in some parts of Punjab, Haryana-Chandigarh-Delhi, West Rajasthan and East Madhya Pradesh and in isolated pockets of East Rajasthan and West Madhya Pradesh; in the range 40-43°C over many parts of Vidarbha and in isolated pockets of Bihar, Odisha, Chhattisgarh and Marathwada. These were above normal by 2-5°C in some parts of Jammu division, Punjab, Haryana-Chandigarh-Delhi and in isolated pockets of Himachal Pradesh, Uttar Pradesh and Bihar.

Heat Wave, Warm Night and Hot & Humid weather warning for next 5 days:

- ❖ **Heat wave conditions** very likely in some parts of Punjab, Haryana-Chandigarh-Delhi on 04th; Uttar Pradesh, West Rajasthan during 04th-07th; Odisha on 04th & 05th; Jharkhand during 04th-07th; Punjab, Haryana-Chandigarh-Delhi on 05th; Bihar on 06th & 07th June, 2024.
- ❖ **Hot and humid weather** very likely to prevail over isolated pockets of Odisha during 04th-07th; Bihar during 04th-05th; Gangetic West Bengal on 06th & 07th June, 2024.

* 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.

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Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Arunachal Pradesh and Kerala & Mahe; **at many places** over Coastal Karnataka; **at a few places** over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **at isolated places** over Sub-Himalayan West Bengal & Sikkim, Bihar, Chhattisgarh, Madhya Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Vidarbha, Konkan & Goa, North Interior Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** observed at isolated places over Kerala.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Kerala:** Vellarikkundu-9, Aralam-8, Panathur-5, Alapuzha-3, Kannur-1; **Assam & Meghalaya:** Dibrugarh, Guwahati, Cherrapunji, Rangia & Shillong-1 each, **Tripura:** Kailashahar-2; **Madhya Pradesh:** Seoni & Indore-1 each.
- ❖ **Reported maximum wind speed** (from 0830 hours IST to 1730 hours IST of yesterday) (in Knots): **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:** Upsi-30, Nyoma-28, Khaltse & Padum-27 each; **Jharkhand:** Simdega-31, Bokaro-27; **Tamil Nadu:** Erode-25; **Madhya Pradesh:** Seoni-36, Mandla-34, Sagar-29; **Himachal Pradesh:** Mashobra-36, Dharmshala-32, Hamirpur & Kufri-31 each; **Chhattisgarh:** Kobra-31, Jashpur-27.
- ❖ Yesterday, **Heat wave conditions** prevailed in some parts of Punjab, Haryana-Chandigarh-Delhi and Rajasthan and in isolated pockets of Uttar Pradesh and Madhya Pradesh. **Heat wave conditions** have been prevailing over Haryana since 17th and over Madhya Pradesh & Uttar Pradesh since 18th May, 2024.
- ❖ **Minimum Temperature Departures (as on 03-06-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab, at isolated places over East Uttar Pradesh, Bihar, Haryana-Chandigarh-Delhi; **above normal (1.6°C to 3.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Uttar Pradesh, Vidarbha, Konkan & Goa, Gujarat Region; at isolated places over Madhya Pradesh, Rayalaseema, Madhya Maharashtra, Marathwada, Kerala & Mahe, Uttarakhand, Himachal Pradesh, Saurashtra & Kutch. These were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Odisha, Coastal Andhra Pradesh & Yanam, at isolated places over Rayalaseema; **below normal (-1.6°C to -3.0°C)** at many places over Telangana, at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 21.0°C was reported at **Bulandshahr (West Uttar Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 03-06-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi; **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab; at a few places over Himachal Pradesh; at isolated places over Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at many places over West Rajasthan; at a few places over East Rajasthan and Konkan & Goa; at isolated places over Bihar, Madhya Pradesh, Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim. These were **markedly below normal (5.1°C or more)** at many places over Telangana, Rayalaseema; at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Arunachal Pradesh, Assam & Meghalaya; **below normal (-1.6°C to -3.0°C)** at a few places over Chhattisgarh, Tamil Nadu, Puducherry & Karaikal; at isolated places over Gangetic West Bengal, Odisha, Chhattisgarh, Marathwada, Interior Karnataka and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 46.8°C was reported at **Kanpur IAF (Uttar Pradesh)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Monsoon continues to pass through 15.5°N/60°E, 15.5°N/65°E, 15°N/70°E, Honnavar, Ballari, Kurnool, Narsapur 17°N/85°E, 19.5°N/88°E 21.5°N/90°E, 23°N/89.5°E and Islampur.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into remaining parts of central Arabian Sea, remaining parts of Karnataka, some parts of south Maharashtra, goa, remaining parts Rayalaseema, Telangana & Coastal Andhra Pradesh, some parts of south Chhattisgarh and South Odisha, some more parts of Westcentral and Northwest Bay of Bengal during next 3-4 days.
- ❖ The cyclonic circulation over westcentral & adjoining southwest Bay of Bengal off south Coastal Andhra Pradesh-north Tamil Nadu coasts extending upto 3.1 km above mean sea level tilting southwestwards with height persists.
- ❖ The cyclonic circulation over Kerala & neighbourhood between 3.1 & 5.8 km above mean sea level persists.
- ❖ The trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 80°E to the north of Lat. 28°N persists.
- ❖ The cyclonic circulation over central Pakistan & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northwest Madhya Pradesh & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over northwest Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over central parts of Gujarat at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over East Uttar Pradesh at 1.5 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over East Uttar Pradesh to North Interior Karnataka across Madhya Pradesh & interior Maharashtra at 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Assam extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Bihar at 0.9 km above mean sea level persists.
- ❖ A fresh western disturbance is likely to affect Western Himalayan Region and adjoining plains from night of 04th June, 2024.

Weather Forecast for next 7 days (Upto 0830 hours IST of 11th June, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ No significant change in maximum temperatures very likely over East India during next 24 hours and rise by 2-4°C thereafter.
- ❖ No significant change in maximum temperatures very likely over Uttar Pradesh during next 3 days and rise by 2-3°C thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

Weather Outlook for subsequent 3 days (During 11th-13th June, 2024)

- ❖ Scattered to fairly widespread rainfall likely over Islands, Northeast and Peninsular India. Isolated to Scattered to rainfall likely over Western Himalayan Region.
- ❖ Mainly dry weather likely to prevail over rest parts of the country.

Table-1

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

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Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures

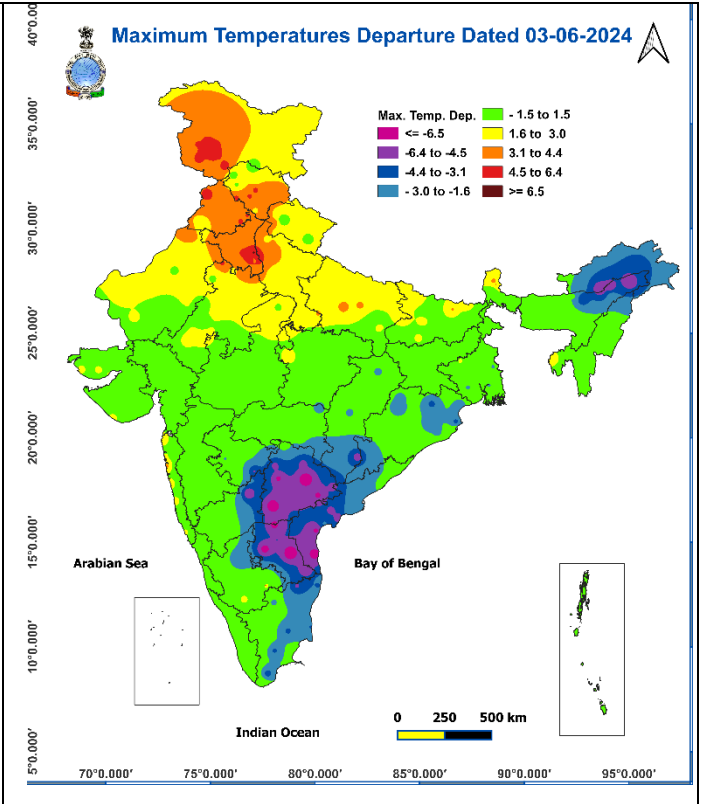
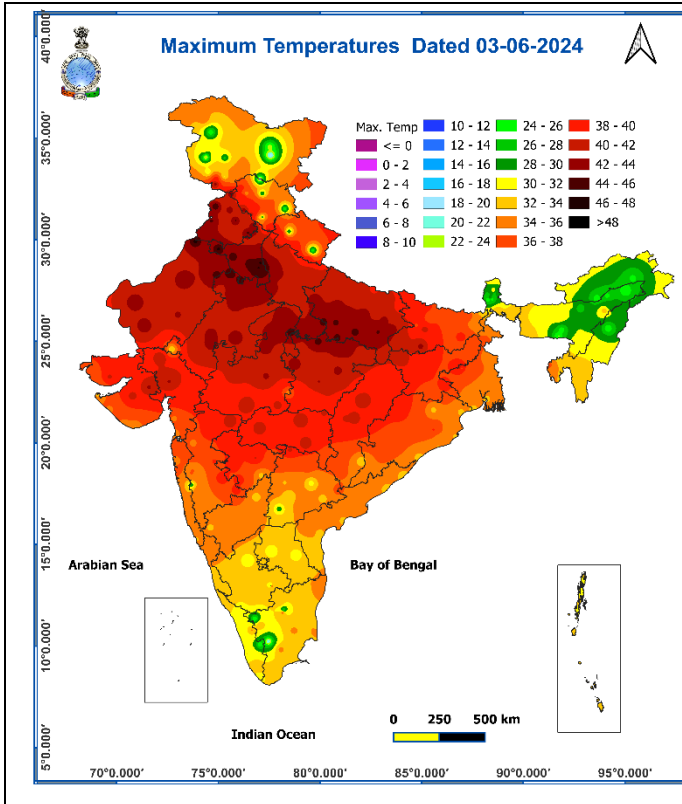


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

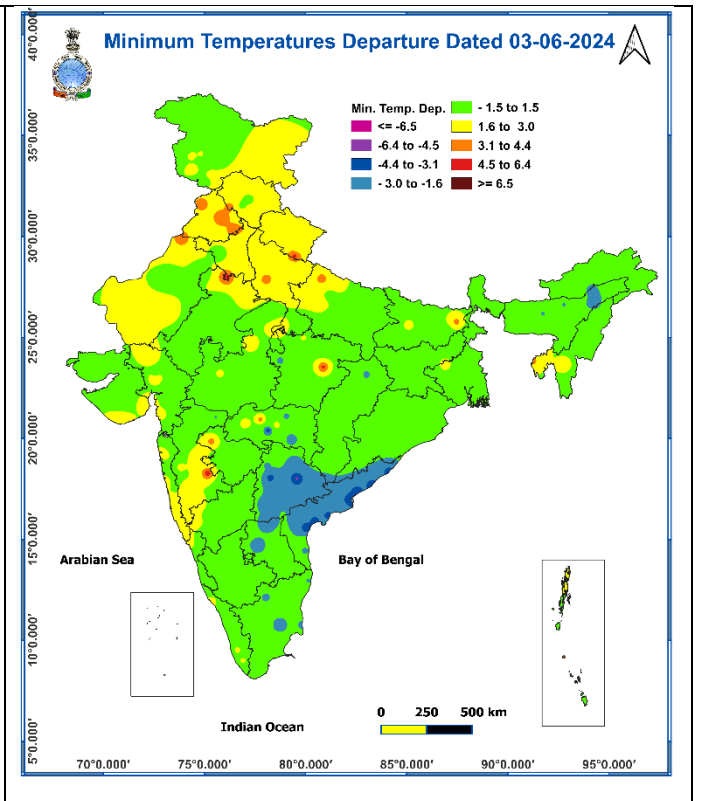
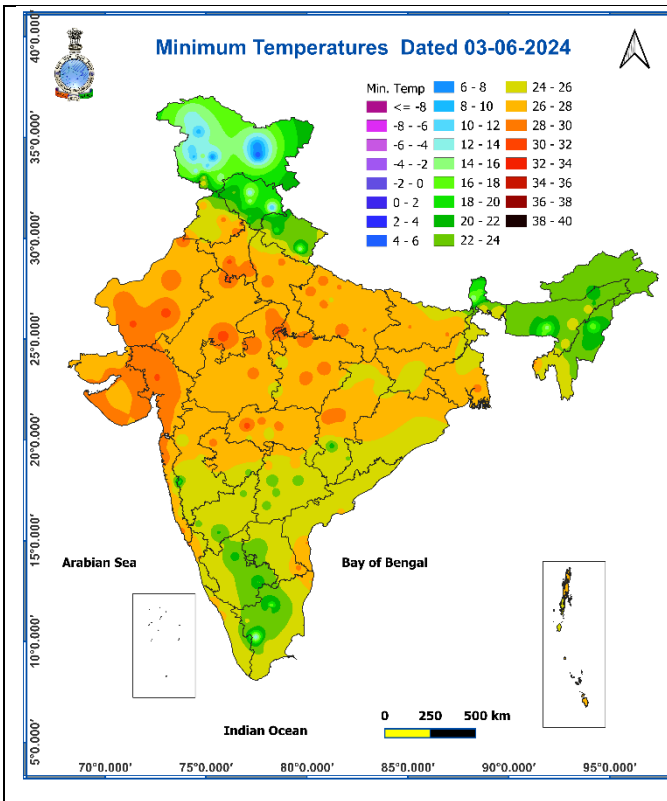
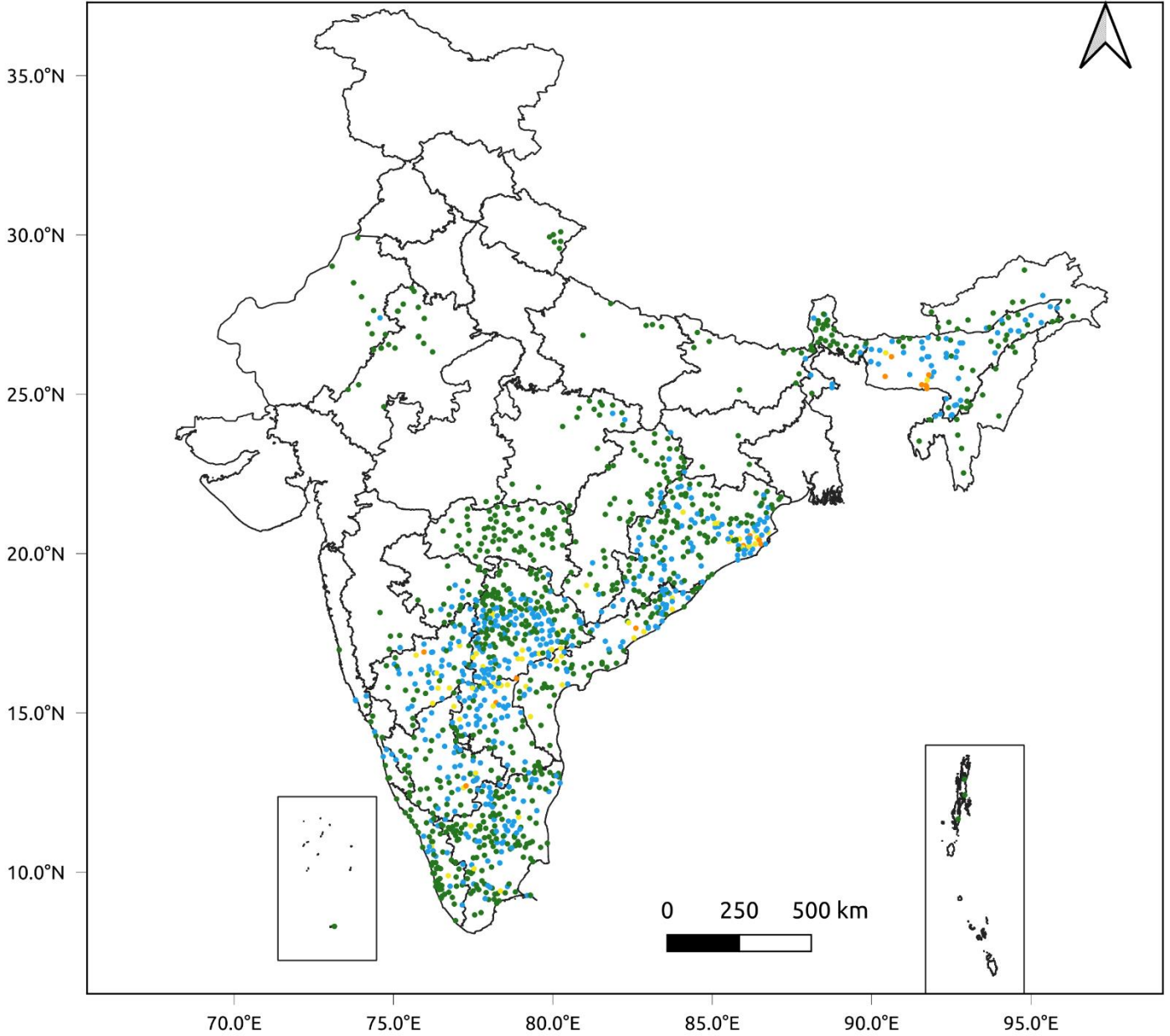


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



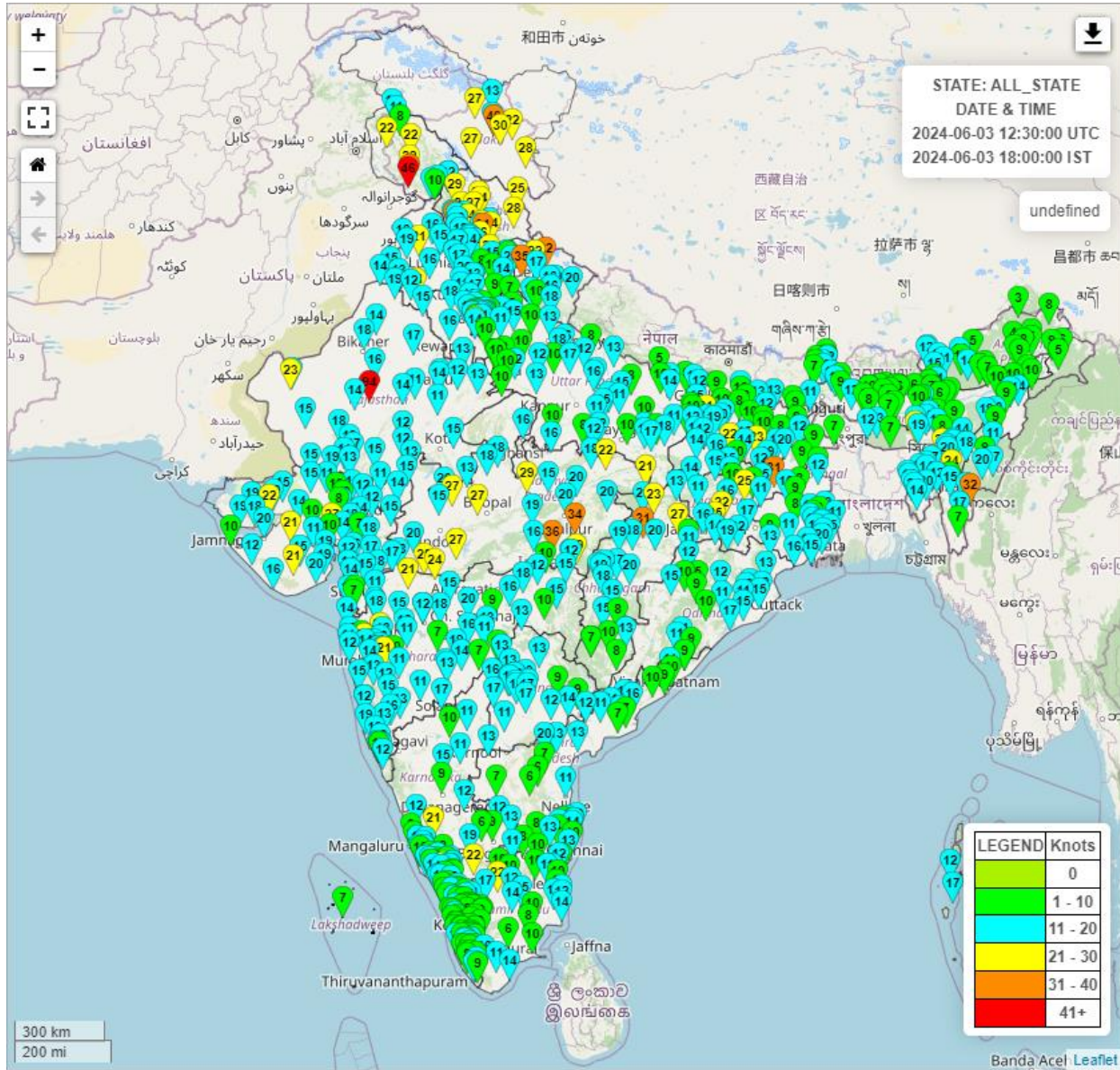
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 2-6-2024 to 0830 IST of 3-6-2024



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)

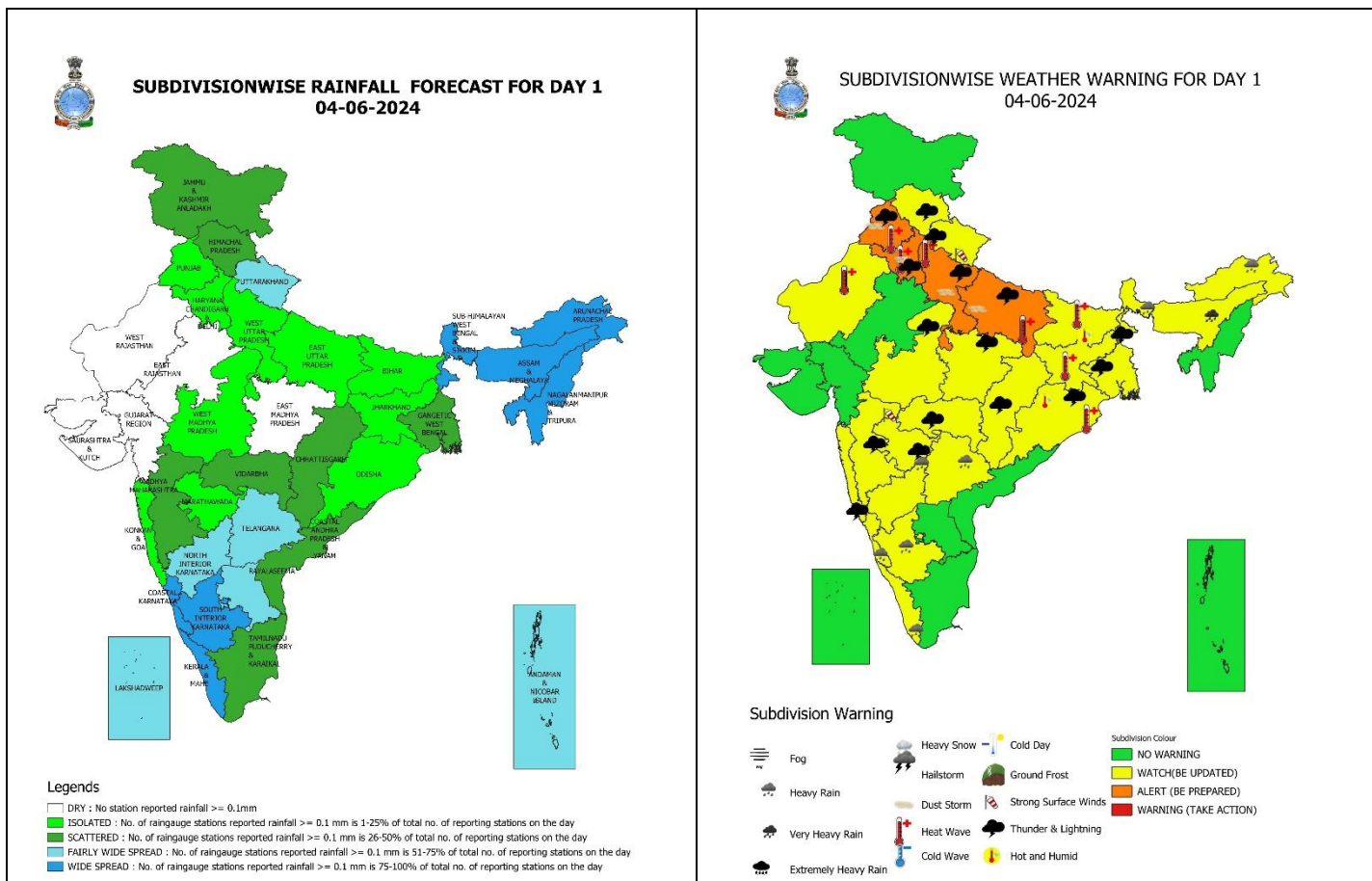
Fig. 7: Gusty winds reported over the country (in knots) from 0830 hours IST to 0530 hours IST of 04.06.2024



1 Knot = 1.852 kmph

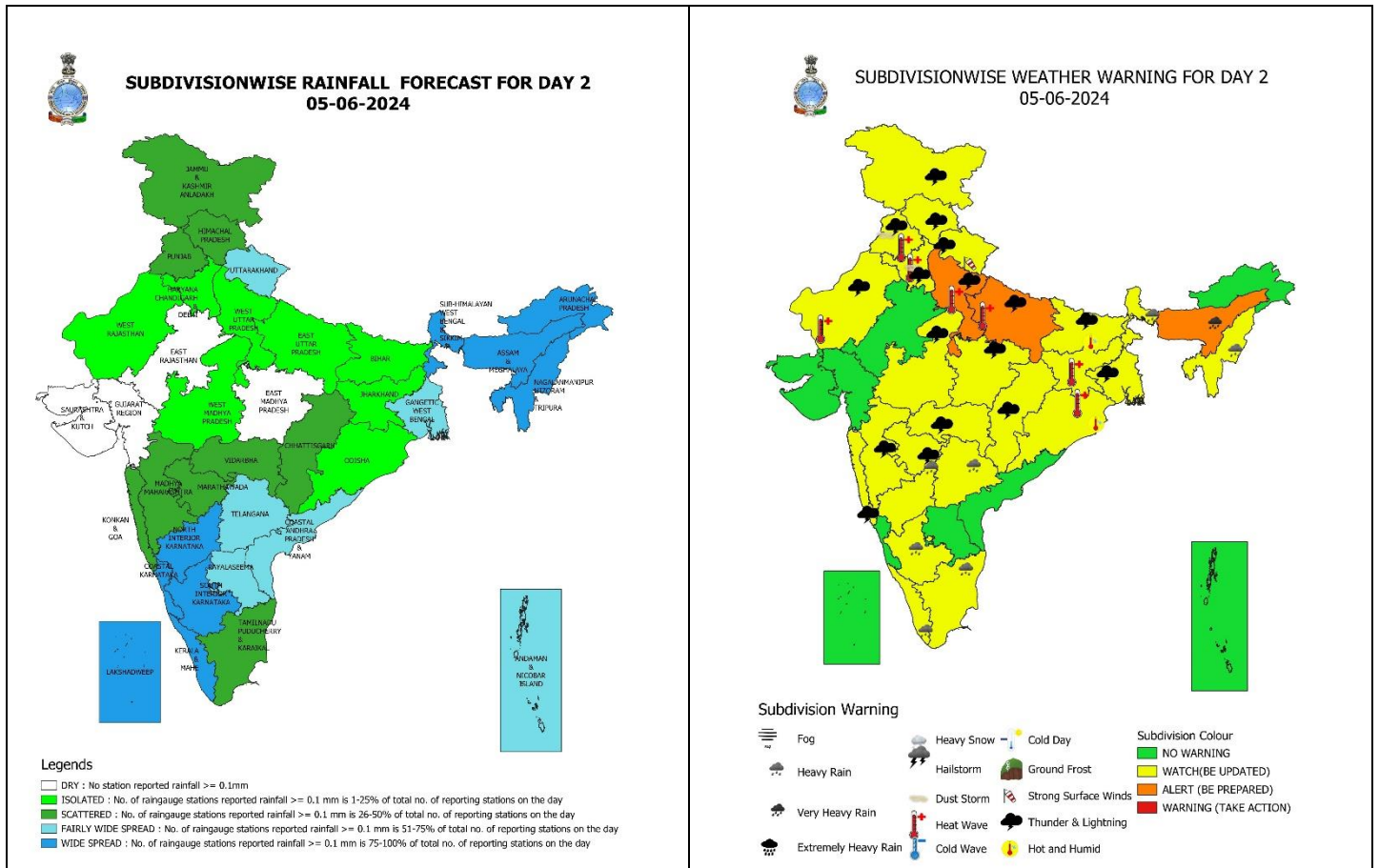
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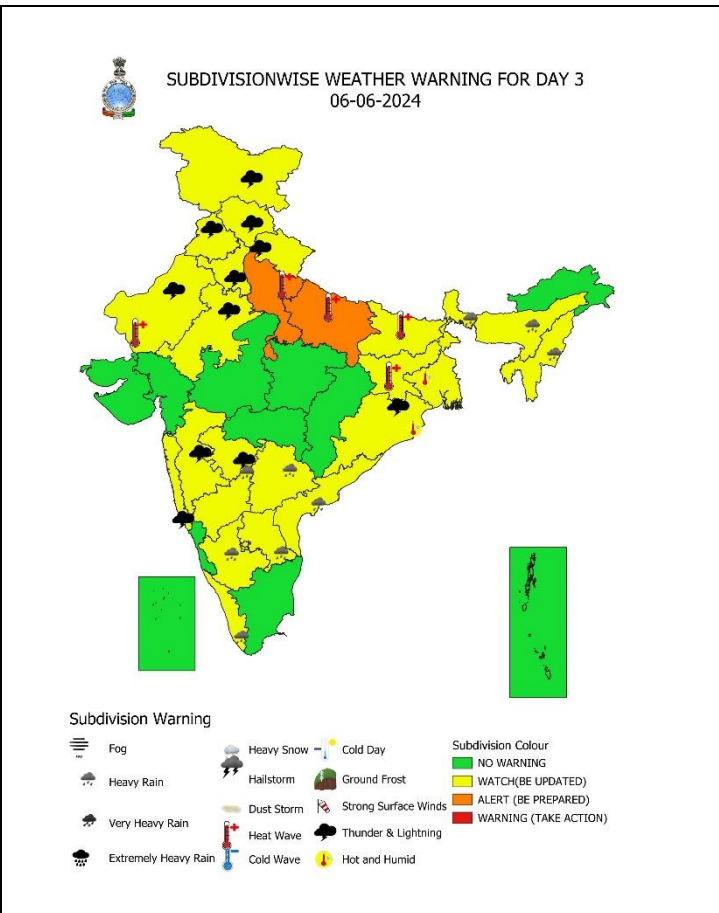
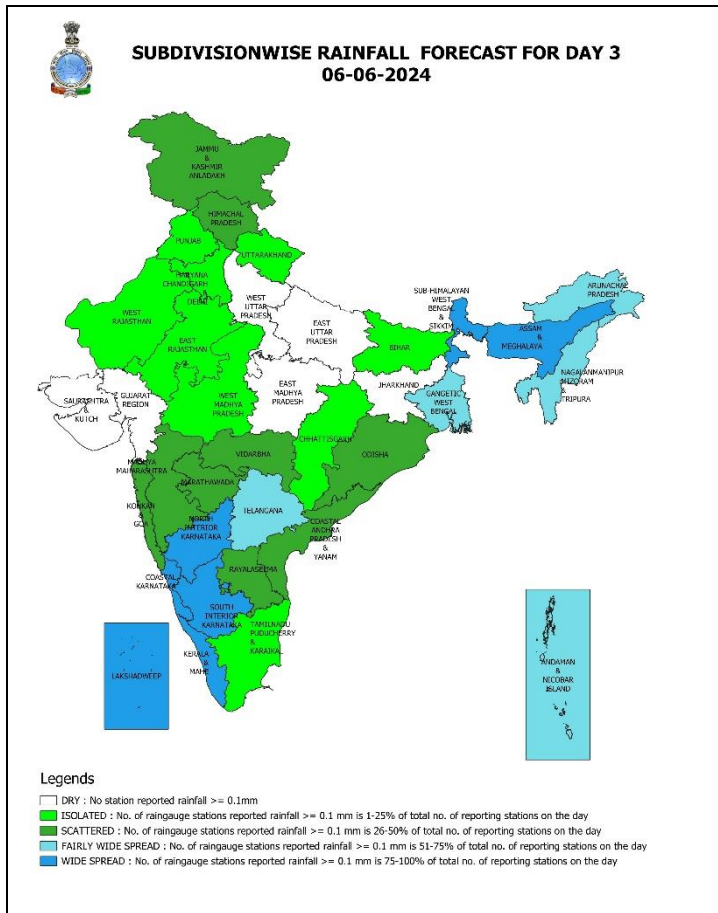
04 June (Day 1):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Madhya Maharashtra, Kerala & Mahe, Telangana, Karnataka.
- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph)** very likely at isolated places over Uttarakhand, Madhya Maharashtra; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim; **with lightning** at isolated places over Konkan & Goa.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttar Pradesh, Punjab, Haryana-Chandigarh-Delhi
- ❖ **Heat wave conditions** very likely to prevail in some parts of Punjab, Haryana-Chandigarh-Delhi; in isolated pockets of Uttar Pradesh, West Rajasthan, Jharkhand, Odisha.
- ❖ **Hot and humid weather** likely to prevail over Odisha, Bihar.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over gulf of Mannar and adjoining Comorin area, south bob and adjoining central Bay of Bengal and north Andaman Sea. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, southwest and adjoining west central Arabian sea.



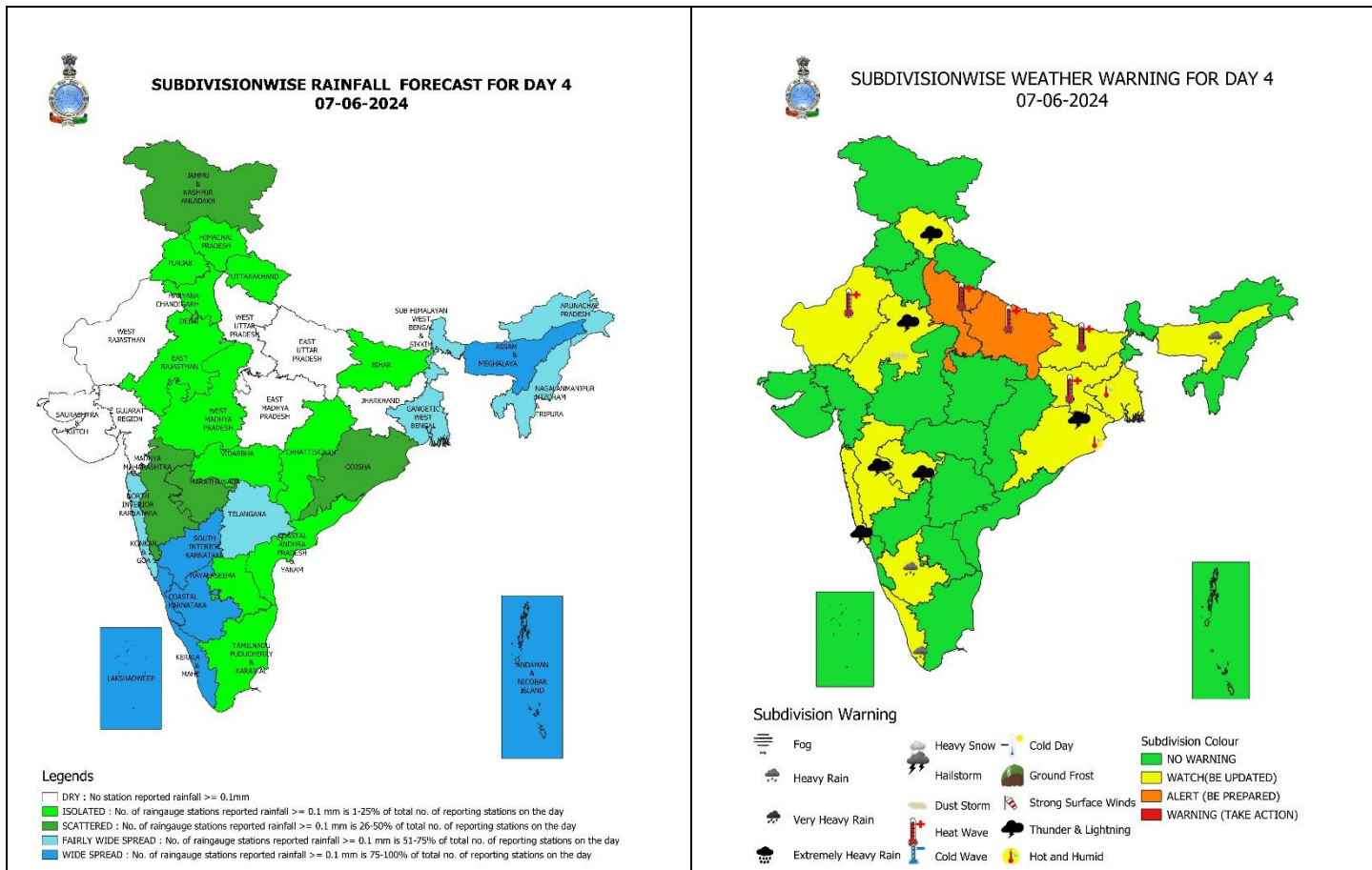
05 June (Day 2):

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Telangana, Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph)** very likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Madhya Pradesh, Vidarbha and Chhattisgarh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Uttar Pradesh, West Rajasthan, Madhya Maharashtra, Marathwada; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gangetic West Bengal, Konkan & Goa.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Punjab, Haryana-Chandigarh-Delhi.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets of Haryana-Chandigarh, Punjab, West Rajasthan, Jharkhand, Odisha and Uttar Pradesh.
- ❖ **Hot and humid weather** very likely to prevail over Odisha, Bihar.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off Karnataka, Kerala coasts, Lakshadweep, Comorin areas, over gulf of Mannar, south and central bob and north Andaman Sea. **Squally wind with wind speed 45 kmph to 55 kmph** gusting to 65 kmph likely to prevail along and off Somalia coast, southwest and adjoining west central Arabian sea.



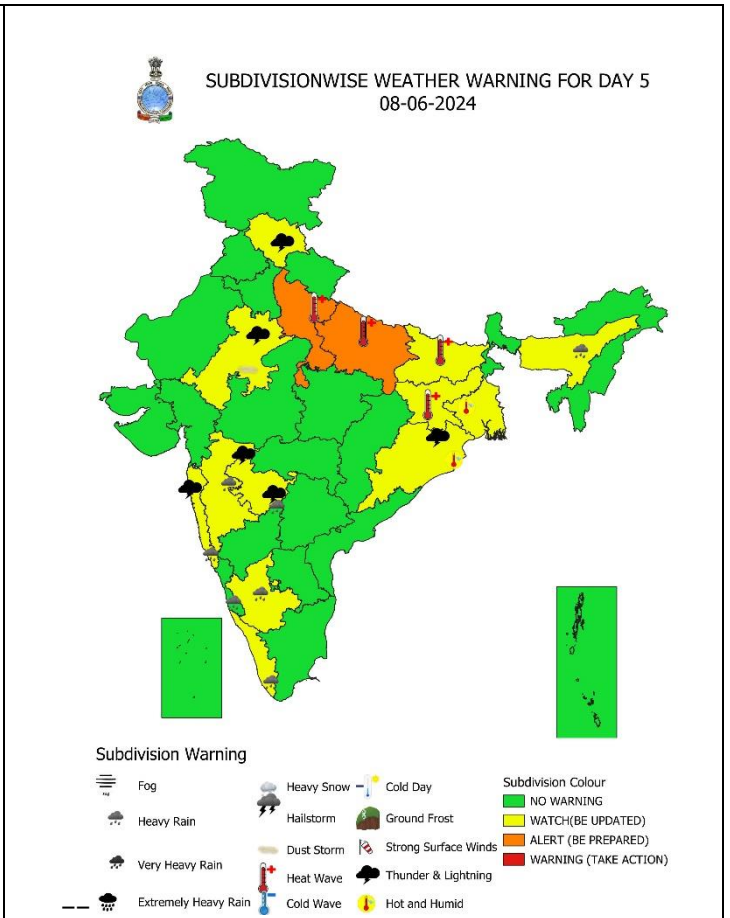
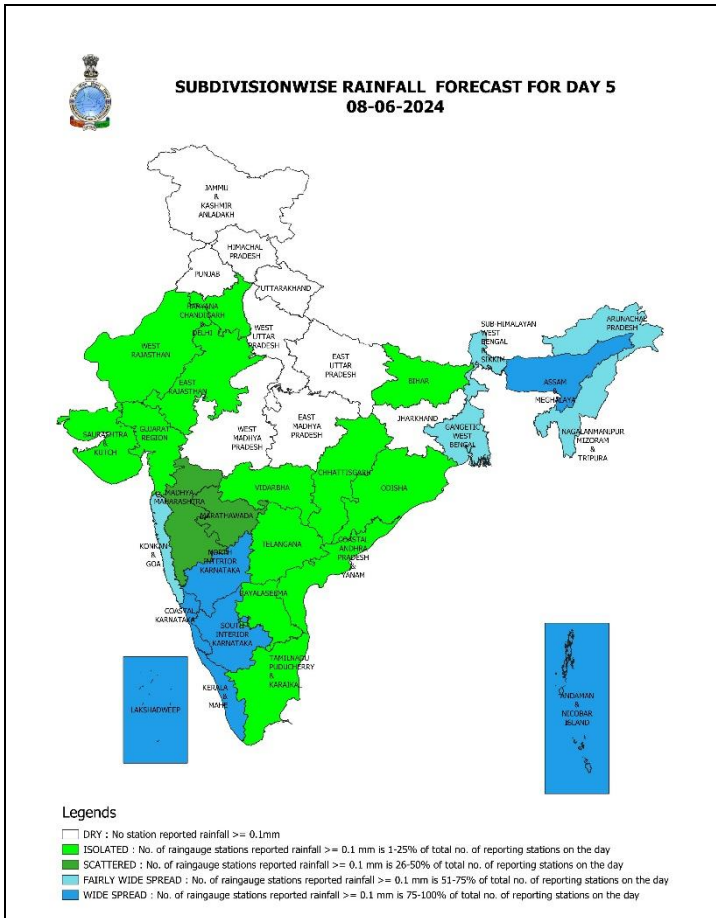
06 June (Day 3):

- ❖ **Heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Interior Karnataka
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Madhya Maharashtra, Marathwada, Odisha; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa.
- ❖ **Heat wave conditions** likely to prevail in isolated pockets of Uttar Pradesh, West Rajasthan, Bihar and Jharkhand.
- ❖ **Hot and humid weather** likely to prevail over Odisha, Gangetic West Bengal.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off Konkan, goa, Karnataka, Kerala coasts, Lakshadweep, Comorin areas, over gulf of Mannar, south and central bob and north andman sea. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast adjoining west central Arabian sea.



07 June (Day 4):

- ❖ **Heavy rainfall** likely at isolated places over Assam & Meghalaya, Kerala & Mahe and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Odisha, East Rajasthan, Madhya Maharashtra, Marathwada; **with lightning** at isolated places over Konkan & Goa.
- ❖ **Heat wave conditions** likely to prevail in isolated pockets of Uttar Pradesh, West Rajasthan, Bihar and Jharkhand.
- ❖ **Hot and humid weather** likely to prevail over Odisha, Gangetic West Bengal.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off Konkan, goa, Karnataka, Kerala coasts, Lakshadweep, Comorin areas, over gulf of Mannar, south and central bob and north andman sea. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast southwest and adjoining west central Arabian sea.

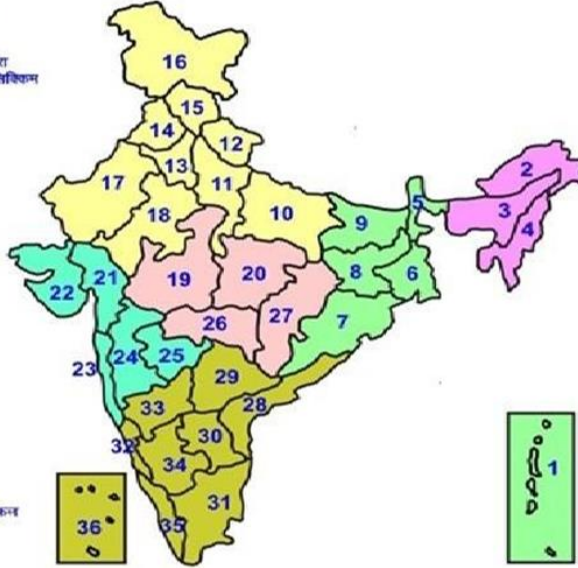


08 June (Day 5):

- ❖ **Heavy rainfall** likely at isolated places over Assam & Meghalaya, south Konkan & Goa, south Madhya Maharashtra, Karnataka, north Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Odisha, Madhya Maharashtra, Marathwada; **with lightning** at isolated places over Konkan & Goa.
- ❖ **Heat wave conditions** likely to prevail in isolated pockets of Uttar Pradesh, Bihar and Jharkhand.
- ❖ **Hot and humid weather** likely to prevail over Odisha, Gangetic West Bengal.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off Konkan, goa, Karnataka, Kerala coasts, Lakshadweep, Comorin areas, over gulf of Mannar, south and central bob and north andman sea. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast southwest and adjoining west central Arabian sea.

LEGENDS

- 1 अंडमन 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 उत्तराखण्ड
- 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 गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तमिलनाडु, पुदुचेरी एवं केरल
- 31 उत्तर कर्नाटक
- 32 दक्षिण 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. 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)
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Probabilistic Forecast

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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)

* 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)