

Wednesday, June 5, 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 continue to pass through 16.5°N/60°E, 16.5°N/65°E, 16°N/70°E, Goa (Mormugao), Gadag, Narayanpet, 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, some more parts 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 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 07th - 09th; with heavy rainfall on 05th & 06th; isolated **heavy rainfall** over Sub-Himalayan West Bengal & Sikkim during 05th-09th; Arunachal Pradesh during 06th-09th; Nagaland, Manipur, Mizoram & Tripura on 08th and very heavy rainfall on 9th June.
- ❖ A cyclonic circulation lies over south Andhra Pradesh in lower tropospheric levels. 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 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, Karnataka during 05th-09th and Tamil Nadu on 05th & 06th; Telangana on 9th June, 2024.**
 - ✓ Scattered light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Marathwada, Konkan & Goa, Madhya Maharashtra during next 3 days and fairly widespread rainfall thereafter subsequent 4-5 days.
 - ✓ Isolated **heavy rainfall** very likely over Konkan & Goa during 06th-9th and Madhya Maharashtra on 06th June.
- ❖ A cyclonic circulation lies over East Uttar Pradesh & adjoining Bihar and a trough runs roughly along Long. 87°E to the north of Lat. 22°N in lower tropospheric levels. Under its influence:
 - ✓ Isolated light rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Bihar, Jharkhand, Gangetic West Bengal and Isolated to scattered light/moderate rain over Chhattisgarh, Odisha, Vidarbha, Madhya Pradesh during next 7 days.
- ❖ A fresh Western Disturbance as a cyclonic circulation lies over east Iran & neighbourhood lower tropospheric levels. Prevailing southwesterly winds from Arabian Sea over the plains of Northwest India are likely to continue during next 3 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 4-5 days.
 - ✓ Isolated very light to light rainfall with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Punjab, Haryana, West Uttar Pradesh during 05th-07th; East Uttar Pradesh on 05th and Rajasthan during 05th-08th June.
 - ✓ **Duststorm** very likely over West Uttar Pradesh, Punjab, Haryana-Chandigarh-Delhi on 05th; West Rajasthan during 05th-09th and East Rajasthan during 06th-09th June, 2024.

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

- ❖ **Heat wave conditions** very likely in isolated pockets of East Madhya Pradesh, Jharkhand, Bihar during 05th-09th; Punjab, Haryana-Chandigarh-Delhi, Rajasthan on 05th; Odisha on 05th & 06th June, 2024.
- ❖ **Heat wave conditions** very likely in isolated pockets of Uttar Pradesh on 05th & 06th and **heat wave to severe heat wave conditions** in some parts of Uttar Pradesh during 07th- 09th June.
- ❖ **Hot and humid weather** very likely to prevail over isolated pockets of Odisha on 07th - 09th; Gangetic West Bengal during 06th-09th June, 2024.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 to 1730 hours IST of yesterday): **at a few places** over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Coastal Karnataka, North Interior Karnataka and Lakshadweep; **at isolated places** over Himachal Pradesh, Arunachal Pradesh, Gangetic West Bengal, Jharkhand, Chhattisgarh, West Madhya Pradesh, Telangana, Konkan & Goa, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Significant amount of rainfall** (from 0830 to 1730 hours IST of yesterday) (in cm): **Madhya Maharashtra:** Sangli 6, Pune 2; **Goa:** Panjim 5; **Tripura:** Kailashahar 4; **Telangana:** Ramagundam 3; **Gangetic West Bengal:** Pangarh 2; **Chhattisgarh:** Jagdalpur 2; **Kerala & Mahe:** Kottayam 2.
- ❖ Yesterday, **Heat wave conditions** prevailed in some parts of West Uttar Pradesh and in isolated pockets of West Rajasthan, Haryana, Punjab, East Uttar Pradesh & northwest Madhya Pradesh.
- ❖ **Minimum Temperature Departures (as on 04-06-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over East Rajasthan; at isolated places over West Rajasthan; **above normal (1.6°C to 3.0°C)** at many places over Haryana-Chandigarh-Delhi, West Uttar Pradesh; at a few places over Punjab; at isolated places over East Uttar Pradesh, Bihar, Gangetic West Bengal, Jharkhand, Madhya Pradesh, Gujarat state, Madhya Maharashtra, Konkan & Goa, Himachal Pradesh. These were **below normal (-1.6°C to -3.0°C)** at a few places over Telangana, Vidarbha; at isolated places over Odisha, Chhattisgarh, Marathwada, Assam & Meghalaya, Uttarakhand and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 22.0°C** was reported at **Bulandshahr (West Uttar Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 04-06-2024):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Haryana-Chandigarh-Delhi; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Uttar Pradesh, Konkan & Goa; **above normal (1.6°C to 3.0°C)** at a few places over Jharkhand; at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Odisha, Kerala & Mahe and Andaman & Nicobar Islands. These were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Telangana, North Interior Karnataka, Rayalaseema; at isolated places over Assam & Meghalaya, Vidarbha, Marathwada, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at isolated places over Arunachal Pradesh and Bihar and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 46.8°C** was reported at **Jhansi (West Uttar Pradesh)** over the country.

Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Monsoon continues to pass through 16.5°N/60°E, 16.5°N/65°E, 16°N/70°E, Goa (Mormugao), Gadag, Narayanpet, 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, some more parts 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 days.
- ❖ The cyclonic circulation over westcentral & adjoining southwest Bay of Bengal off south Coastal Andhra Pradesh-north Tamil Nadu coasts now lies over south Andhra Pradesh & neighbourhood between 3.1 & 4.5 km above mean sea level.
- ❖ The Western Disturbance as a cyclonic circulation over Iran & neighbourhood now lies over east Iran & neighbourhood at 3.1 km above mean sea level.
- ❖ The cyclonic circulation over East Uttar Pradesh now lies over East Uttar Pradesh & adjoining Bihar and extends upto 1.5 km above mean sea level.
- ❖ A cyclonic circulation lies over north Haryana & neighbourhood at 1.5 km above mean sea level.
- ❖ The cyclonic circulation over south Gujarat & neighbourhood at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Assam extending upto 1.5 km above mean sea level persists.
- ❖ The trough in lower tropospheric westerlies with its axis at 1.5 km above mean sea level roughly along Long. 87°E to the north of Lat. 22°N persists.
- ❖ The cyclonic circulation over south Tamil Nadu & neighbourhood at 3.1 km above mean sea level has become less marked.
- ❖ The cyclonic circulation over central Pakistan & neighbourhood at 1.5 km above mean sea level has become less marked.

Weather Forecast for next 7 days (Upto 0830 hours IST of 12th June, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Rise by 3-4°C in maximum temperatures very likely over East India during next 3 days and no significant change 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 12th-14th June, 2024)

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

Table-1

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

Fig. 2: Departure of Maximum Temperatures

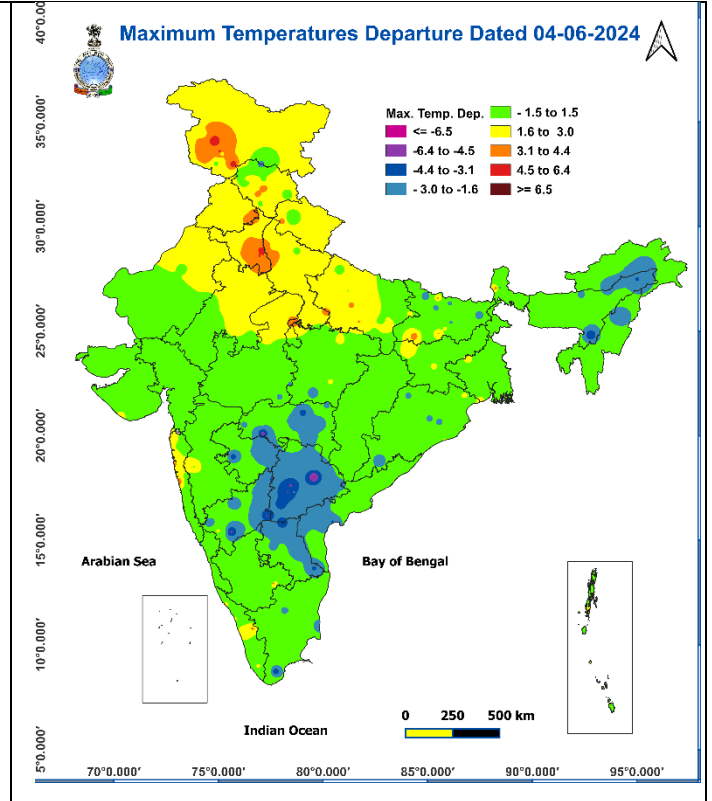
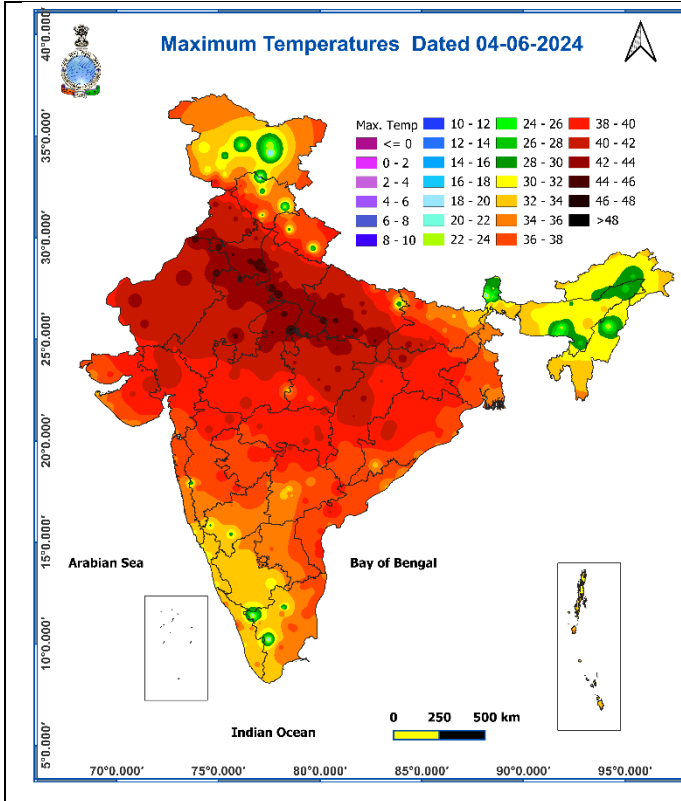


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

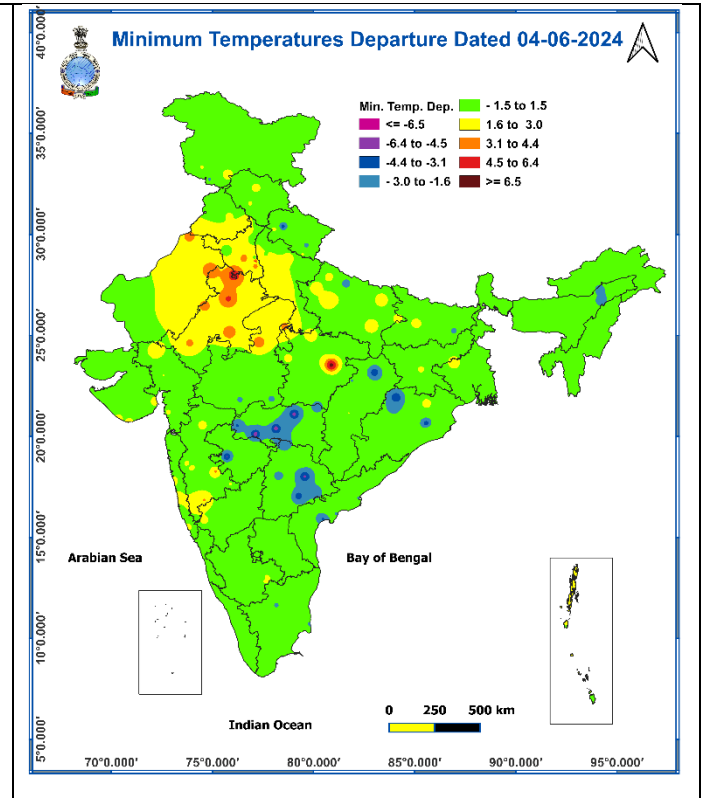
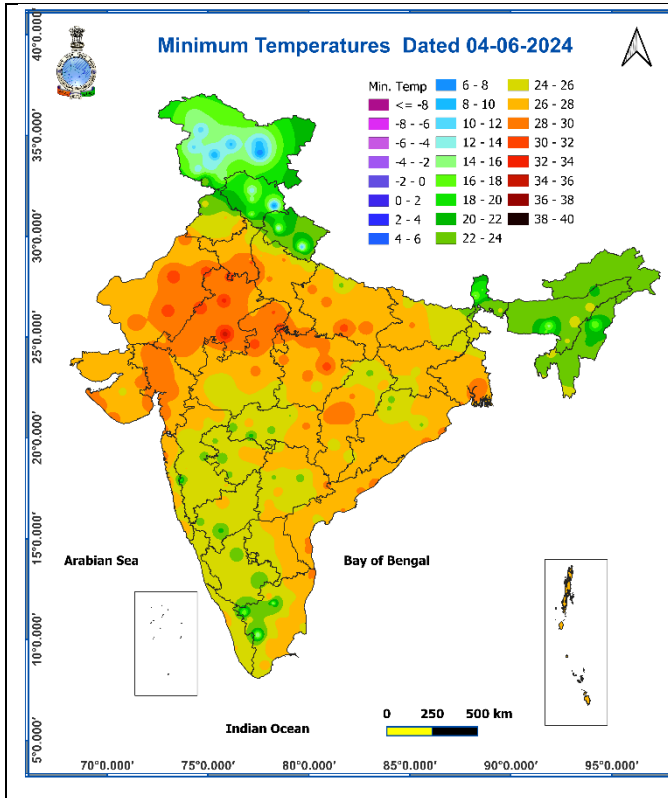
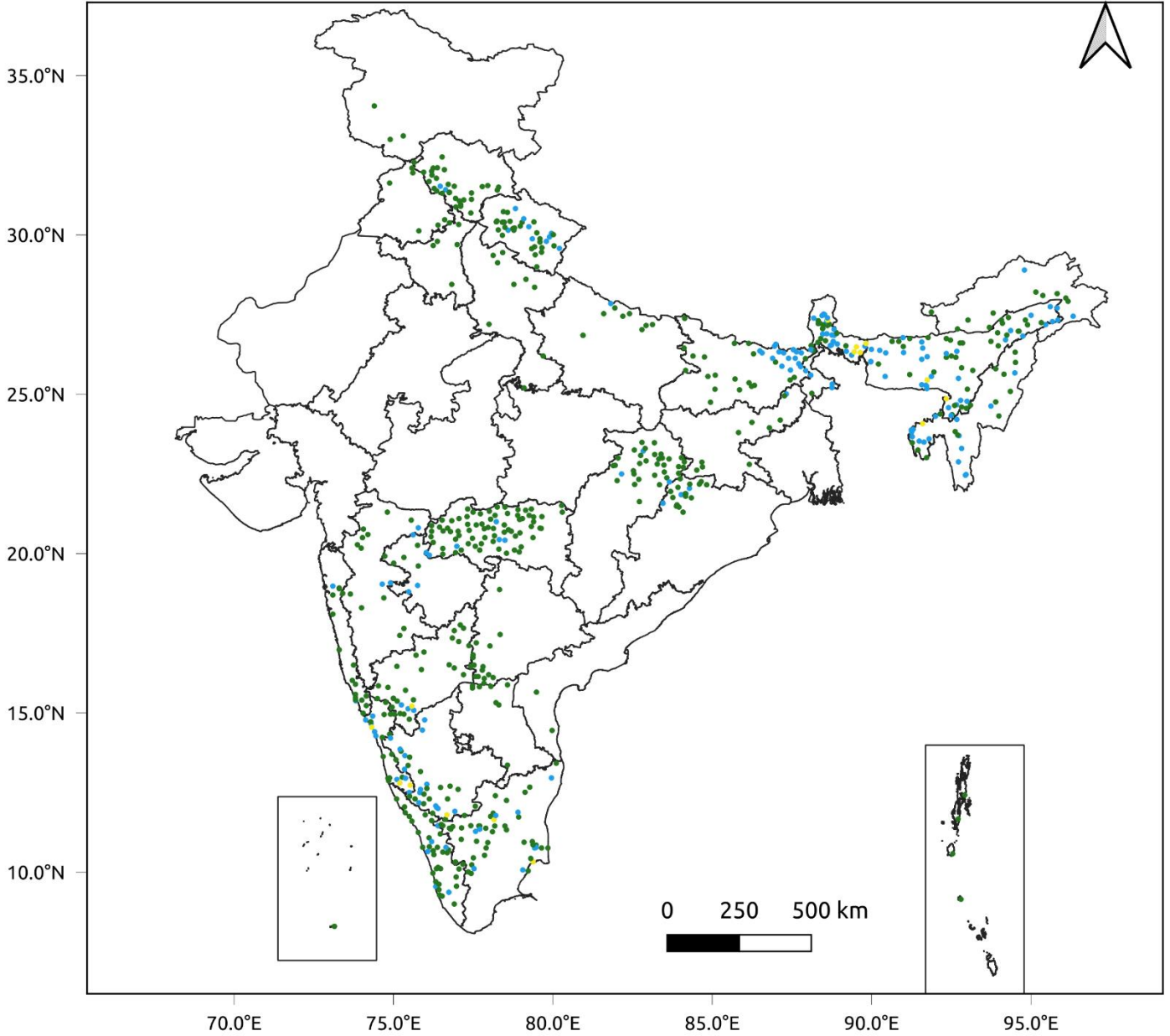


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



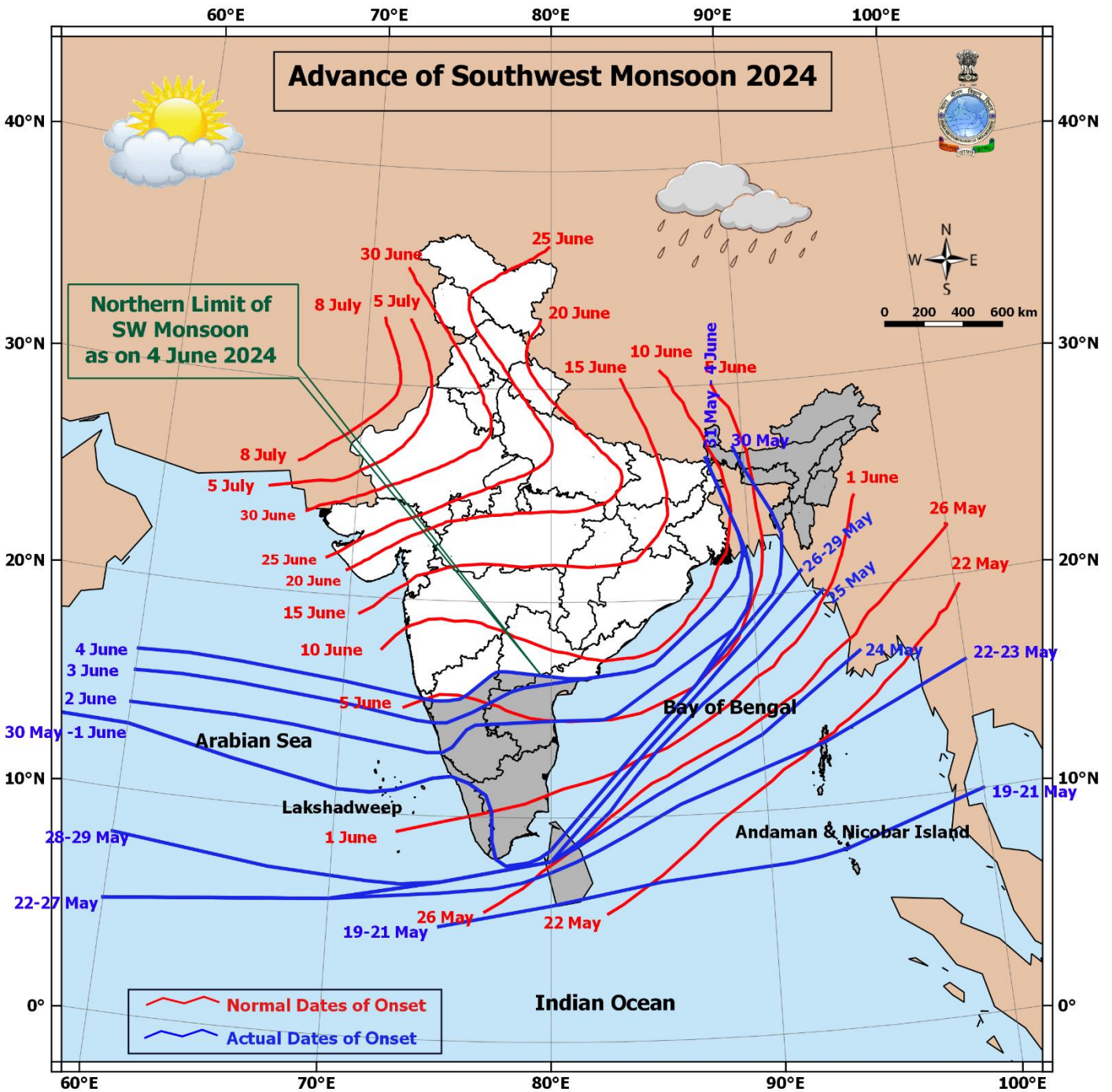
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 3-6-2024 to 0830 IST of 4-6-2024



Legends

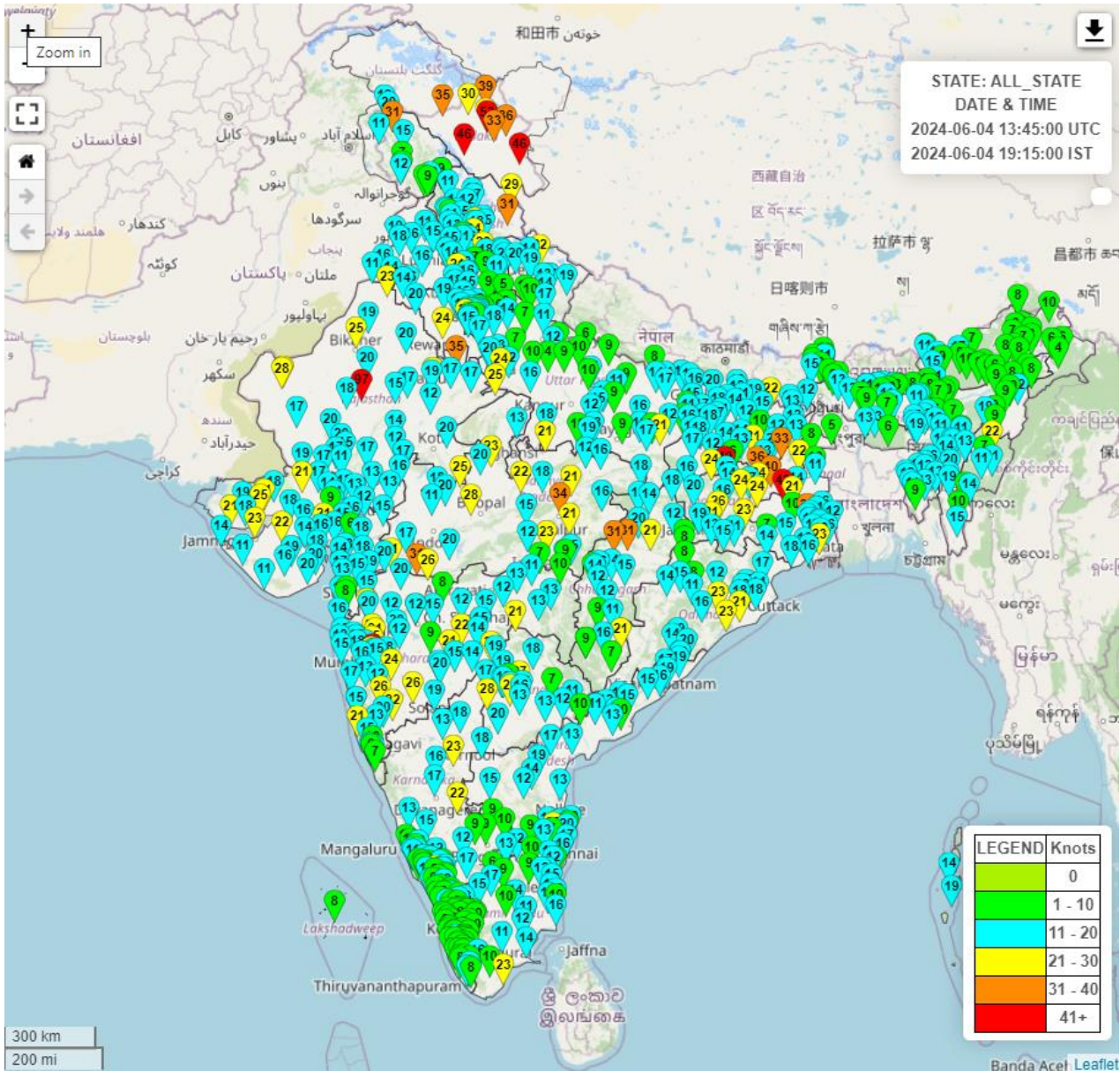
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall (≥ 204.5 mm)

Fig. 6: Advance of Southwest Monsoon 2024



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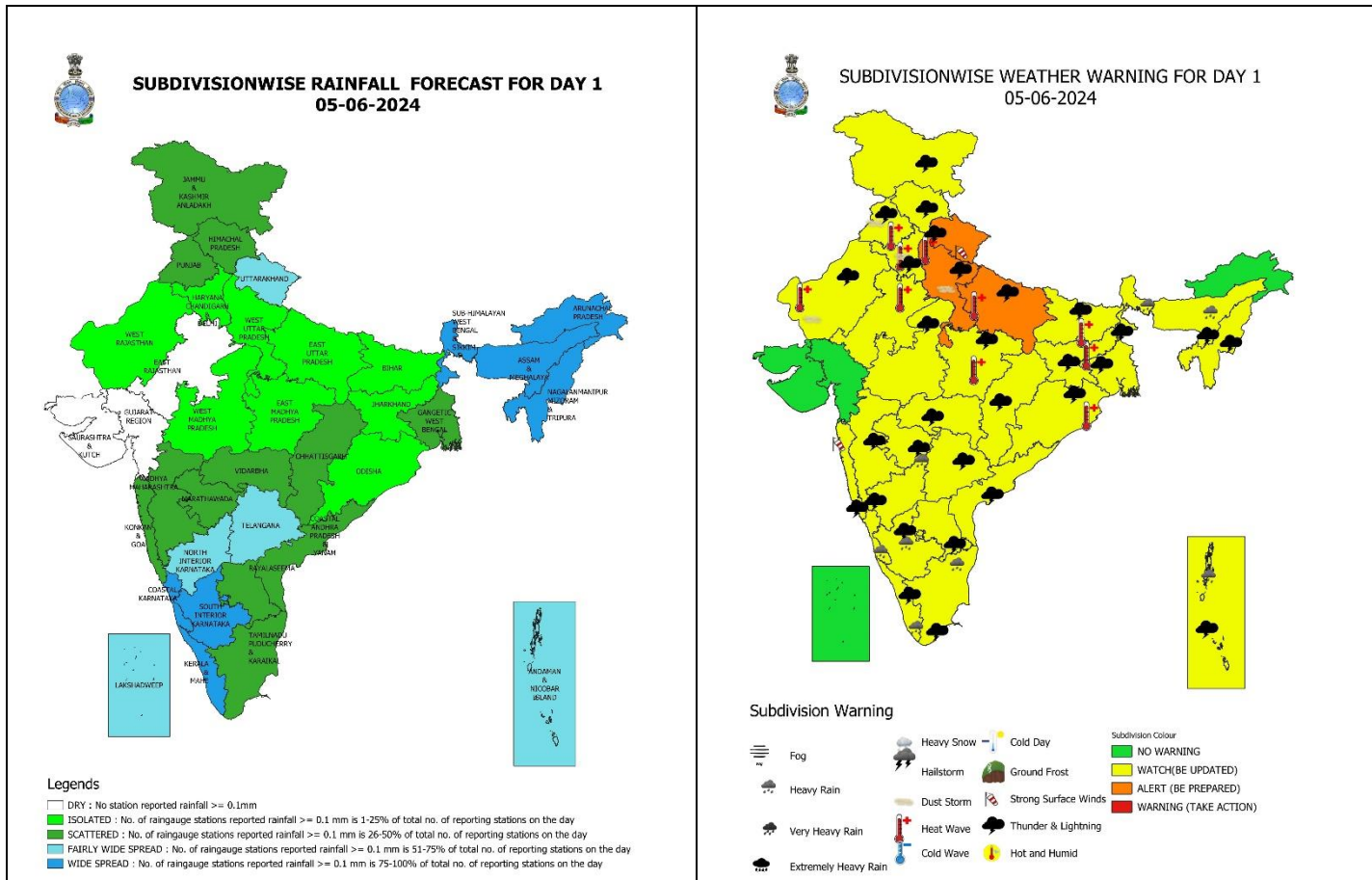
Fig. 7: Gusty winds reported over the country (in knots) from 0830 to 1915 hours IST of 04.06.2024



1 Knot = 1.852 kmph

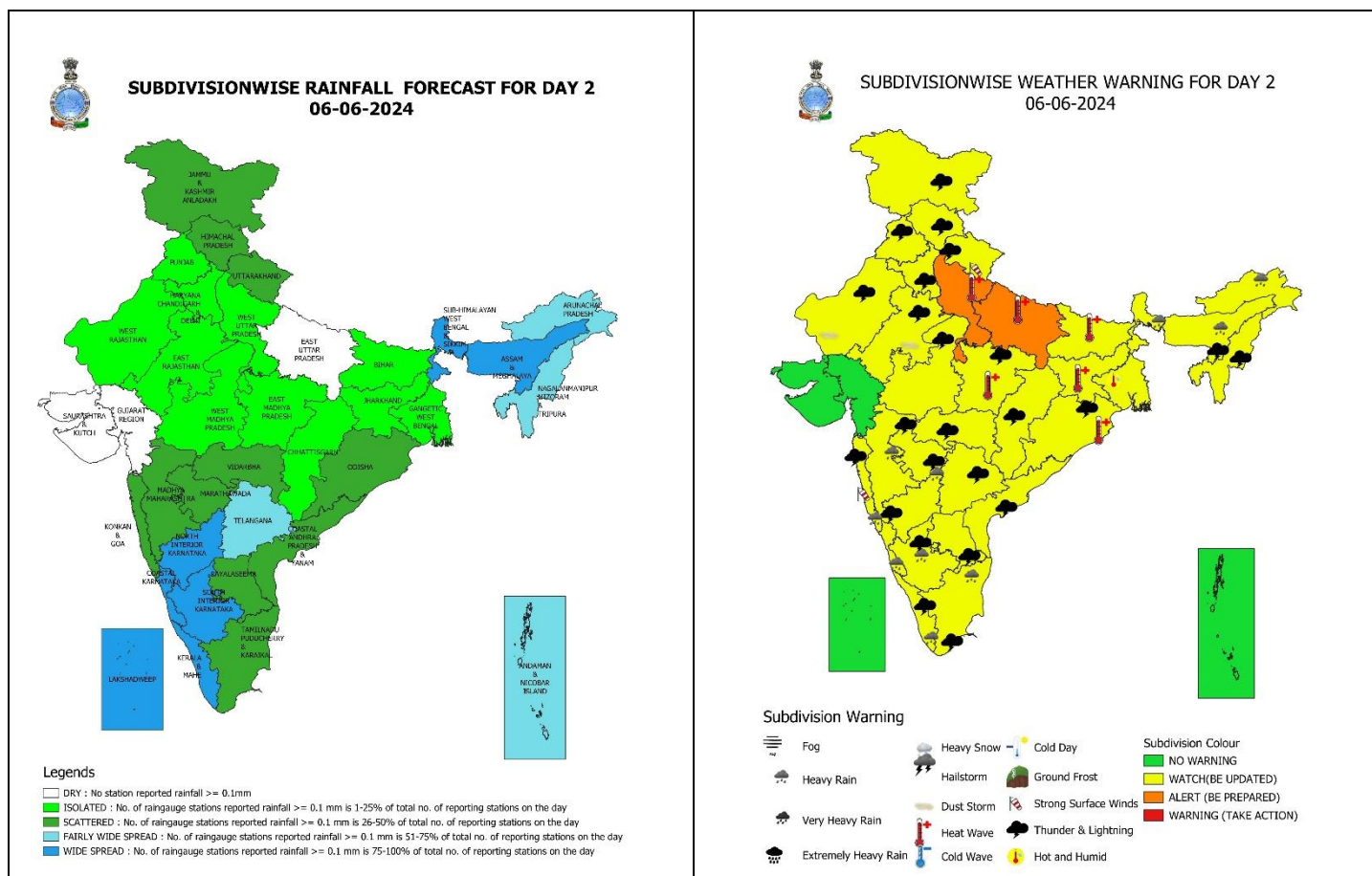
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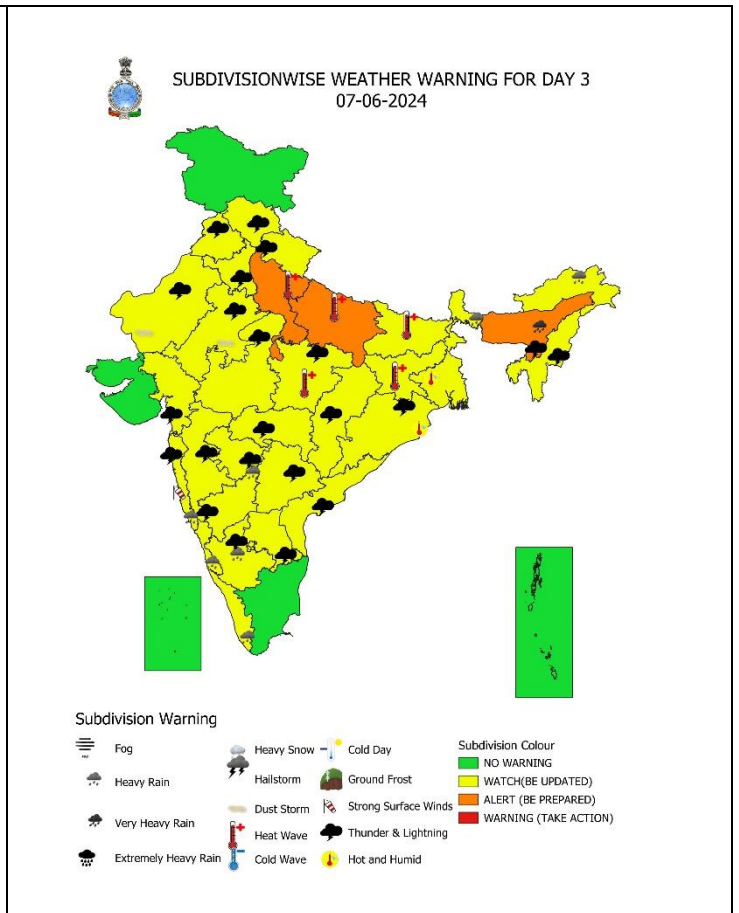
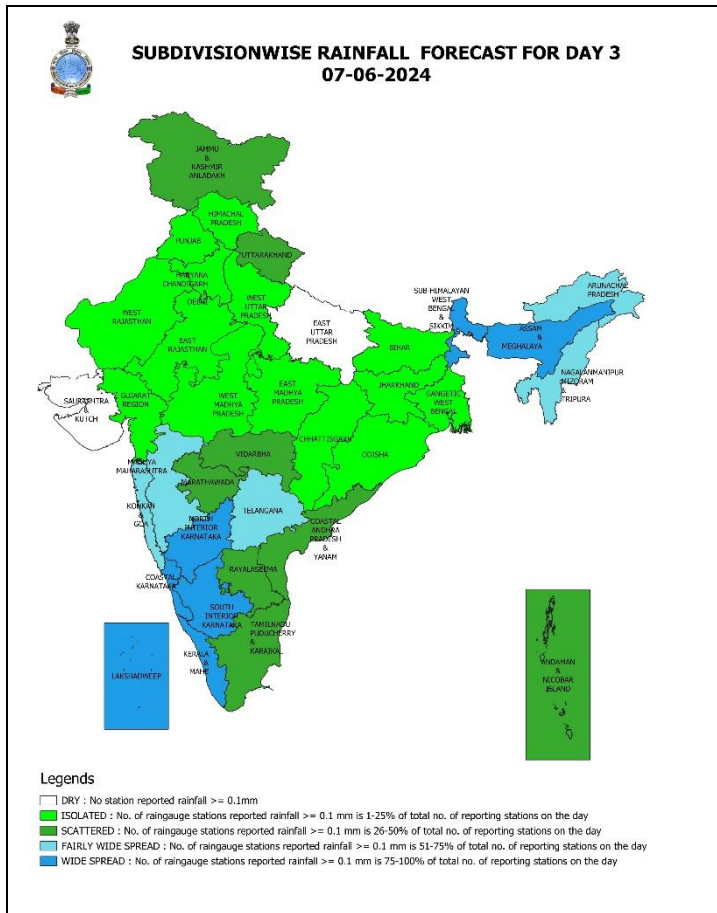
05 June (Day 1):

- ❖ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Karnataka.
- ❖ **Thunderstorm accompanied with lightning, hail & squally winds (speed reaching 50-60 kmph)** very likely at isolated places over Uttarakhand; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, North Interior Karnataka; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over East Uttar Pradesh, Andaman & Nicobar Islands, Jharkhand, Odisha, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Telangana, South Interior Karnataka; **with lightning** at isolated places over Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Punjab, Haryana-Chandigarh-Delhi; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Uttar Pradesh, West Rajasthan.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets of Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, East Madhya Pradesh, Bihar, Jharkhand, Odisha.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along & off south Maharashtra-Konkan-Goa coasts, over gulf of Mannar and adjoining Comorin area, south 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 westcentral Arabian sea.



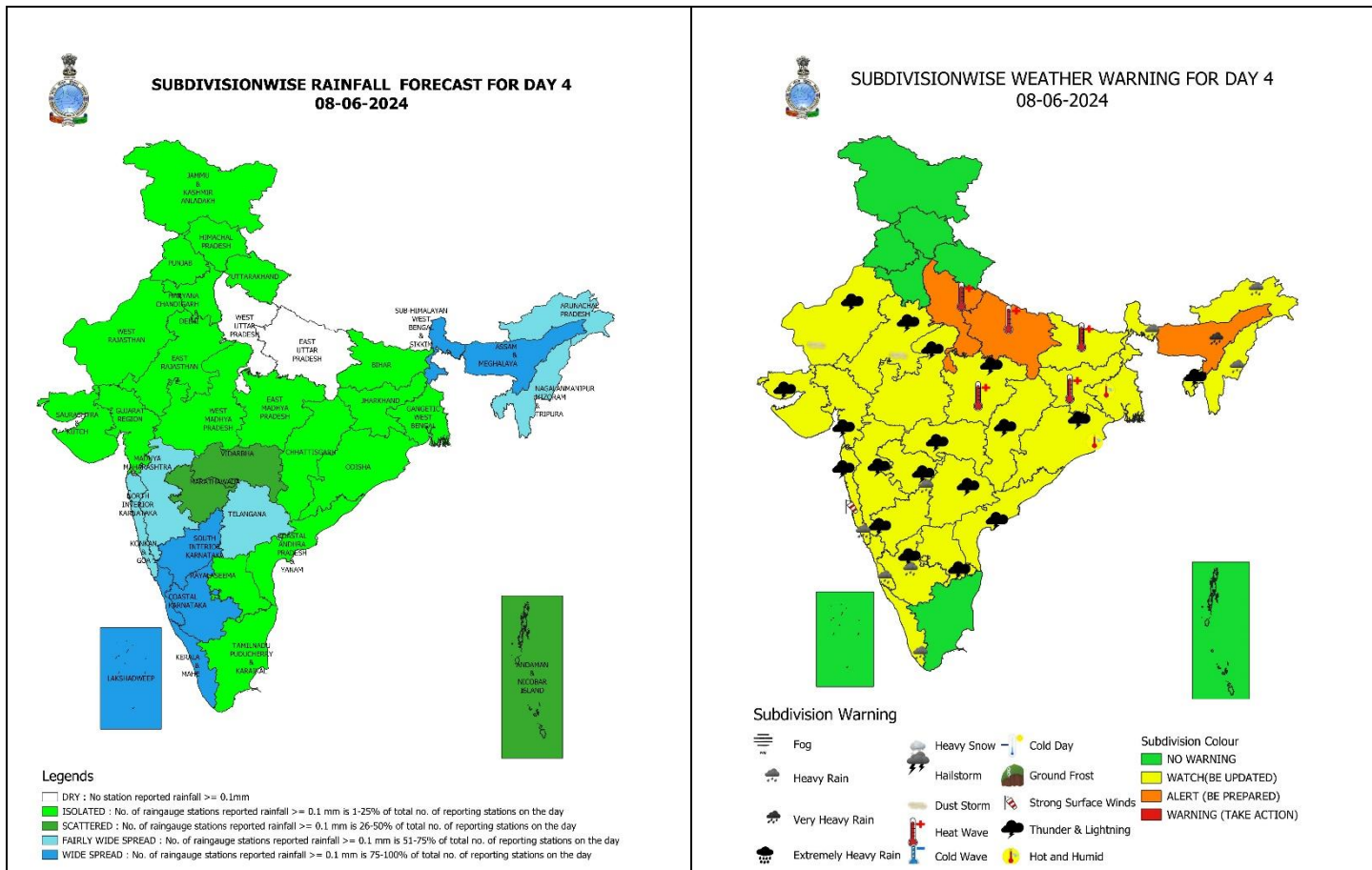
06 June (Day 2):

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



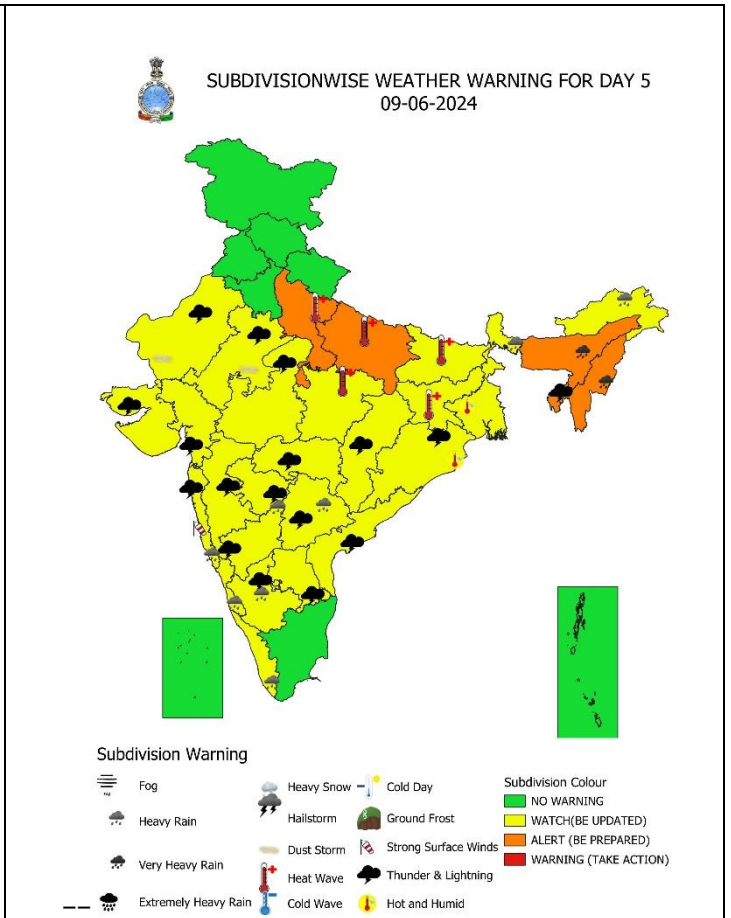
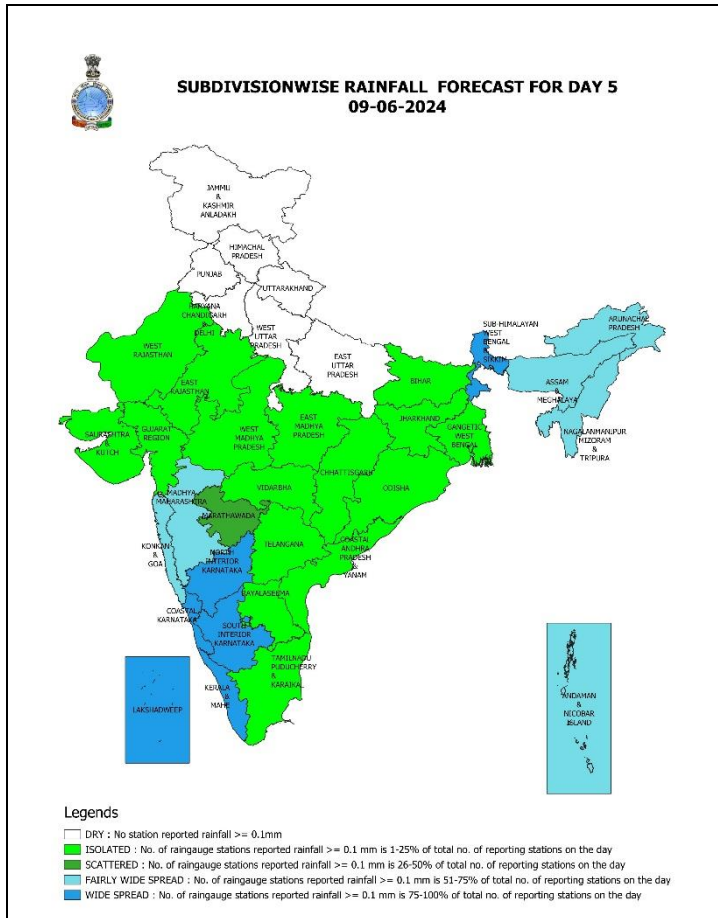
07 June (Day 3):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa, Kerala & Mahe and Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Telangana, Interior Karnataka; **with lightning** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat Region, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Rajasthan.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in some parts of Uttar Pradesh; **heat wave conditions** to prevail in isolated pockets of East Madhya Pradesh, Bihar, 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 & off south Maharashtra-Konkan-Goa-Karnataka-Kerala coasts, over Lakshadweep area, gulf of Mannar and adjoining Comorin area, south and adjoining central Bay of Bengal off Tamil Nadu, south Andhra Pradesh coasts 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 westcentral Arabian sea.



08 June (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Kerala & Mahe and Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Telangana, Interior Karnataka; **with lightning** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Rajasthan.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in some parts of Uttar Pradesh; **heat wave conditions** to prevail in isolated pockets of East Madhya Pradesh, Bihar, 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 & off south Maharashtra-Konkan-Goa-Karnataka-Kerala coasts, over Lakshadweep area, gulf of Mannar and adjoining Comorin area, south and adjoining central Bay of Bengal off Tamil Nadu, south Andhra Pradesh coasts 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 westcentral Arabian sea.

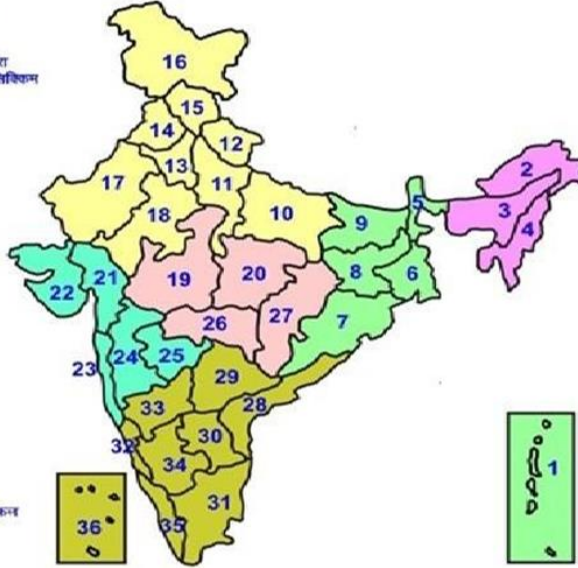


09 June (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Telangana, Konkan & Goa, Kerala & Mahe and Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Telangana, Interior Karnataka; **with lightning** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Rajasthan.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in some parts of Uttar Pradesh; **heat wave conditions** to prevail in isolated pockets of East Madhya Pradesh, Bihar, 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 & off south Maharashtra-Konkan-Goa-Karnataka-Kerala coasts, over Lakshadweep area, gulf of Mannar and adjoining Comorin area, south and adjoining central Bay of Bengal off Tamil Nadu, south Andhra Pradesh coasts 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 westcentral 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 कराईकल
- 31 उत्तरीय कर्नाटक
- 32 दक्षिणी कर्नाटक
- 33 उत्तरीय 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. 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

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)

* 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)