

Thursday, June 6, 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 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 2-3 days.

#### Weather Systems and Forecast & Warnings:

- ❖ A cyclonic circulation lies over Nagaland & neighbourhood 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 rainfall** very likely over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh during 06<sup>th</sup>-10<sup>th</sup> June.
  - Isolated **very heavy rainfall** very likely over Assam & Meghalaya on 07<sup>th</sup> & 08<sup>th</sup> June, 2024.
- ❖ A cyclonic circulation lies over Rayalaseema & neighbourhood in lower tropospheric levels and another over Coastal Karnataka & neighbourhood in middle tropospheric levels. Under their 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; isolated to 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 during 06<sup>th</sup>-10<sup>th</sup>; Coastal Karnataka on 08<sup>th</sup> & 09<sup>th</sup>; North Interior Karnataka during 06<sup>th</sup>-07<sup>th</sup>; Tamil Nadu, South Interior Karnataka on 06<sup>th</sup> June, 2024.*
  - Scattered light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Marathwada during next 5 days; Konkan & Goa, Madhya Maharashtra on 06<sup>th</sup> June.
  - Fairly widespread to widespread light to moderate rainfall with **thunderstorm, lightning & gusty winds (40-50 kmph)** very likely over Konkan & Goa and Madhya Maharashtra during 07<sup>th</sup>-10<sup>th</sup> June, 2024.
  - Isolated **heavy rainfall** very likely over Konkan & Goa, Madhya Maharashtra during 06<sup>th</sup>-10<sup>th</sup> and Marathwada during 06<sup>th</sup>-07<sup>th</sup> June.
  - Isolated **very heavy rainfall** very likely over Konkan & Goa on 08<sup>th</sup> & 09<sup>th</sup> and over south Madhya Maharashtra and Coastal Karnataka on 09<sup>th</sup> June.
- ❖ A cyclonic circulation lies over West Uttar Pradesh and a trough runs from this cyclonic circulation to east Bangladesh in lower tropospheric levels. Under their influence:
  - Isolated to scattered light to moderate rainfall accompanied with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Bihar, Jharkhand, Gangetic West Bengal, Chhattisgarh, Odisha, Vidarbha, Madhya Pradesh during next 5 days.
  - Isolated **hailstorm and squally winds (50-60 kmph)** very likely over south Madhya Pradesh on 06<sup>th</sup> June.
- ❖ A The Western Disturbance as a cyclonic circulation lies over north Pakistan & neighbourhood at 3.1 with a trough in middle level westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 65°E to the north of Lat. 30°N. Prevailing southwesterly winds from Arabian Sea over the plains of Northwest India are likely to continue during next 2 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 2-3 days.
  - Isolated very light to light rainfall with **thunderstorm, lightning & gusty winds (30-50 kmph)** very likely over Punjab, Haryana-Chandigarh-Delhi during 06<sup>th</sup>-07<sup>th</sup>; Uttar Pradesh on 06<sup>th</sup> and Rajasthan during 06<sup>th</sup>-08<sup>th</sup> June.
  - **Duststorm** very likely over Punjab, Haryana-Chandigarh-Delhi on 06<sup>th</sup> and Rajasthan during 06<sup>th</sup>-08<sup>th</sup> June, 2024.
- ❖ Yesterday, **Maximum temperatures** were in the range of 43-46°C over many parts of Haryana, Delhi and at isolated pockets of north Rajasthan, northwest Madhya Pradesh and southern parts of Uttar Pradesh. These were above normal by 2-4°C over these areas.

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

- ❖ **Heat wave conditions** very likely in isolated pockets of northeast Madhya Pradesh, Jharkhand, Bihar during 06<sup>th</sup>-10<sup>th</sup>; northwest Madhya Pradesh & Odisha during 07<sup>th</sup>-10<sup>th</sup> June, 2024.
- ❖ **Heat wave conditions** very likely in isolated pockets of Uttar Pradesh on 06<sup>th</sup> and **heat wave to severe heat wave conditions** in some parts over the region during 07<sup>th</sup>-10<sup>th</sup> June.
- ❖ **Hot and humid weather** very likely to prevail over isolated pockets of Odisha on 06<sup>th</sup>; Gangetic West Bengal during 06<sup>th</sup>-10<sup>th</sup> June, 2024.

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## Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places** over Kerala & Mahe; **at many places** over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Lakshadweep; **at a few places** over Madhya Maharashtra, Konkan & Goa, Assam & Meghalaya, Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **at isolated places** over Rayalaseema, Telangana, Marathwada, Karnataka, Madhya Pradesh, Chhattisgarh, Bihar, Nagaland, Manipur, Mizoram & Tripura and Uttarakhand.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Andaman & Nicobar Islands.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Andaman & Nicobar Islands:** Mayabandar-7, Long island-2; **Tamil Nadu, Puducherry & Karaikal:** Minambakkam-6, Nungabakkam-3, Vellore-2 and Madurai-1; **Himachal Pradesh:** bhuntar-2 and Tuni-1; **Assam & Meghalaya:** Barapani-2 and Cherrapunji-1; **Bihar:** Supaul-2; **Telangana:** Kothagudem-2; **Coastal Andhra Pradesh & Yanam:** Kakinada-2; **Lakshadweep:** Aminidivi-2; **Kerala & Mahe:** Kottayam-1.
- ❖ **Reported maximum wind speed** (from 0830 hours IST to 1730 hours IST of yesterday) (in kmph): **Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad:** Chatha\_AMFU-56, Padum\_kvkv and Chuchot\_yokma-43 each, Upshi-41, Khaltse-31, Tangtse\_Durbuk\_34, nyoma\_kvkv-32; **Madhya Maharashtra:** Rajgurunagar-37, Dhule-31; **Himachal Pradesh-** Hamirpur\_NERI-36, Bilaspur-37, Kufri-35, Mandi-33; **Coastal Andhra Pradesh & Yanam:** Peddapuram-36, Vizianagaram-32; **Chhattisgarh:** Sukma-32; **Punjab:** Sri\_Anandpur\_sahib-31; **Tamil Nadu, Puducherry & Karaikal:** Siruhmani\_kvkv- 31.
- ❖ Yesterday, **Heat wave conditions** prevailed in some parts of southern parts of Uttar Pradesh, Delhi and in isolated pockets of Haryana, north Madhya Pradesh.
- ❖ **Minimum Temperature Departures (as on 05-06-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at most places over Punjab and Haryana-Chandigarh-Delhi; at isolated places over Uttar Pradesh and West Rajasthan; **above normal (1.6°C to 3.0°C)** at many places over Lakshadweep and Andaman & Nicobar Islands; at a few places over East Madhya Pradesh, Bihar, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, East Rajasthan, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Telangana and Tamil Nadu, Puducherry & Karaikal. These were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over West Madhya Pradesh, Vidarbha and Gangetic West Bengal; **below normal (-1.6°C to -3.0°C)** at many places over Chhattisgarh; at isolated places over Assam & Meghalaya and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 20.5°C** was reported at **Dehri (Bihar)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 05-06-2024):** Maximum temperatures were **markedly above normal (5.1 and more)** Haryana-Chandigarh-Delhi and Chhattisgarh; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Punjab; at isolated places over Himachal Pradesh, Punjab, Uttar Pradesh, Jharkhand, Odisha, Konkan & Goa and Uttarakhand; **above normal (1.6°C to 3.0°C)** at many places over Kerala & Mahe; at a few places over Bihar; at isolated places over Gujarat state, Vidarbha, Assam & Meghalaya, Lakshadweep, Assam & Meghalaya, East Rajasthan and Gangetic West Bengal. These were **markedly above normal (-5.1 and less)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Rayalaseema and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 46.2°C** was reported at **Fatehpur (East 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 2-3 days.
- ❖ The Western Disturbance as a cyclonic circulation lies over north Pakistan & neighbourhood at 3.1 with a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 65°E to the north of Lat. 30°N.
- ❖ The cyclonic circulation over central Pakistan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over West Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The east-west trough from above cyclonic circulation over West Uttar Pradesh to East Bangladesh across East Uttar Pradesh, Jharkhand & Gangetic West Bengal at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over Nagaland & 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 cyclonic circulation over Rayalaseema & neighbourhood between 3.1 & 5.8 km above mean sea level persists.
- ❖ The cyclonic circulation over Coastal Karnataka & neighbourhood between 4.5 km & 5.8 km above mean sea level persists.
- ❖ The cyclonic circulation over north Andaman Sea off Myanmar coast between 5.8 km & 7.6 km above mean sea level persists.

## Weather Forecast for next 7 days (Upto 0830 hours IST of 13<sup>th</sup> June, 2024)

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

## Weather Outlook for subsequent 3 days (During 13<sup>th</sup>-15<sup>th</sup> June, 2024)

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

Table-1

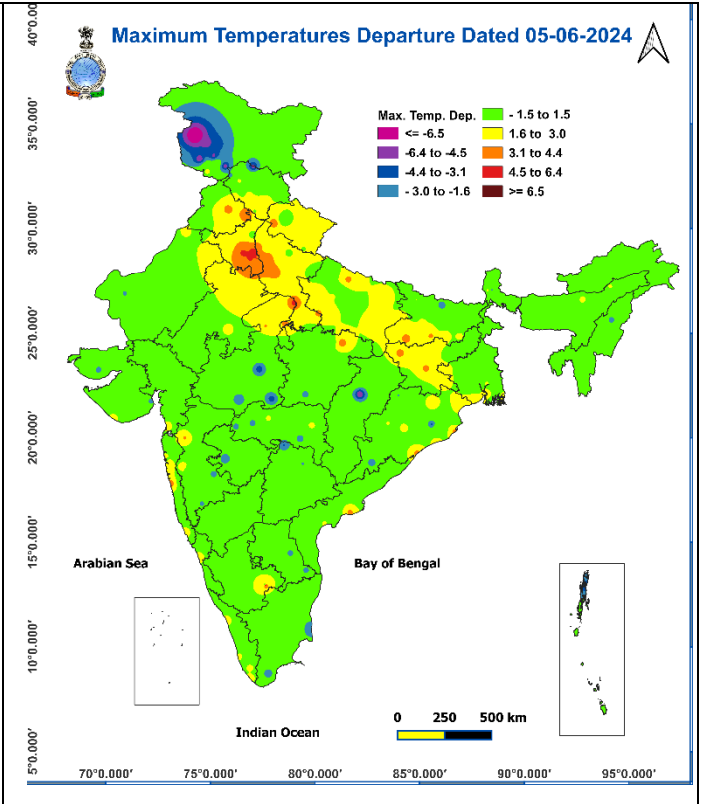
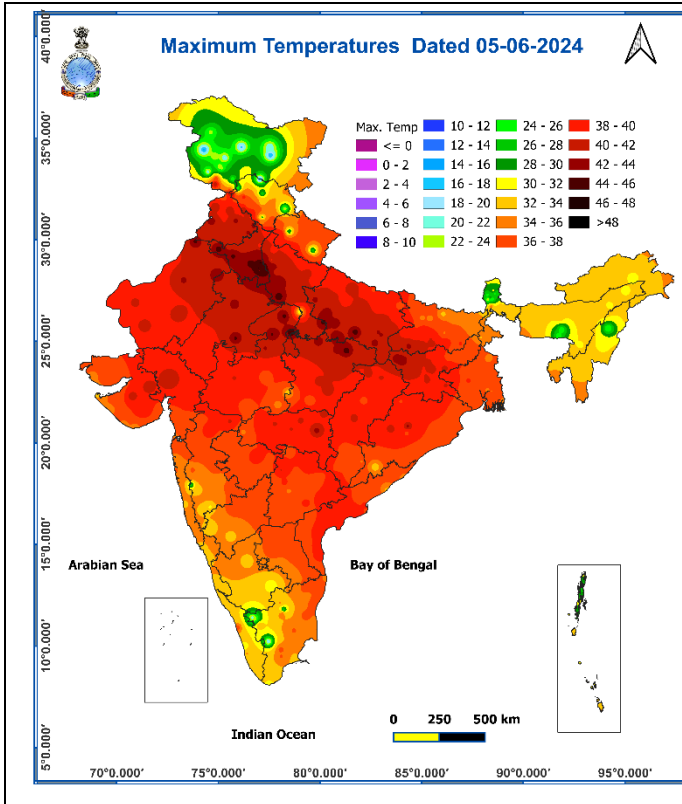
7 Days Rainfall Forecast								
S. No.	Subdivision	06- Jun	07- Jun	08- Jun	09- Jun	10- Jun	11- Jun	12- Jun
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	FWS	FWS	FWS	WS	WS
2	ARUNACHAL PRADESH	FWS	FWS	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	WS	WS	WS
4	NAGALAND,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

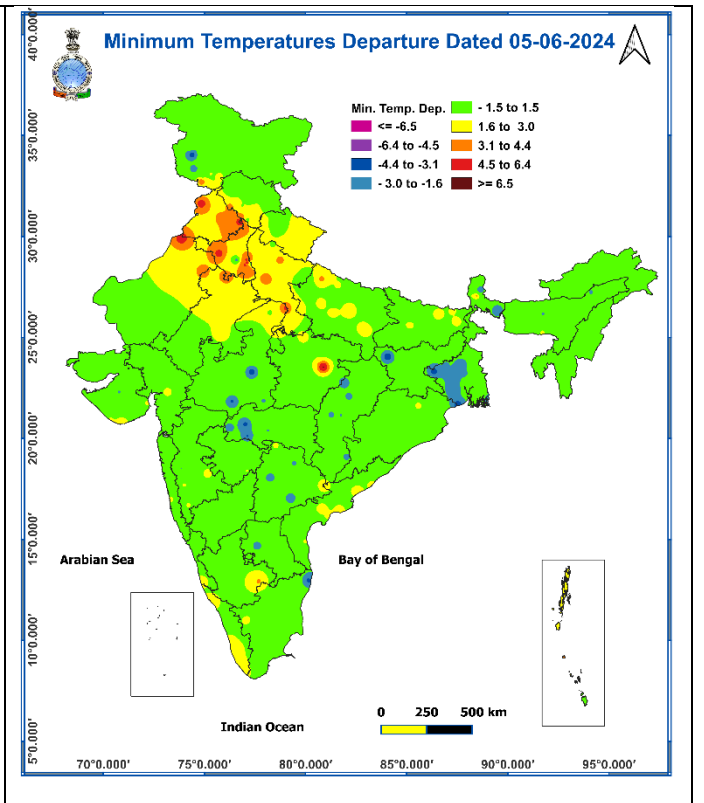
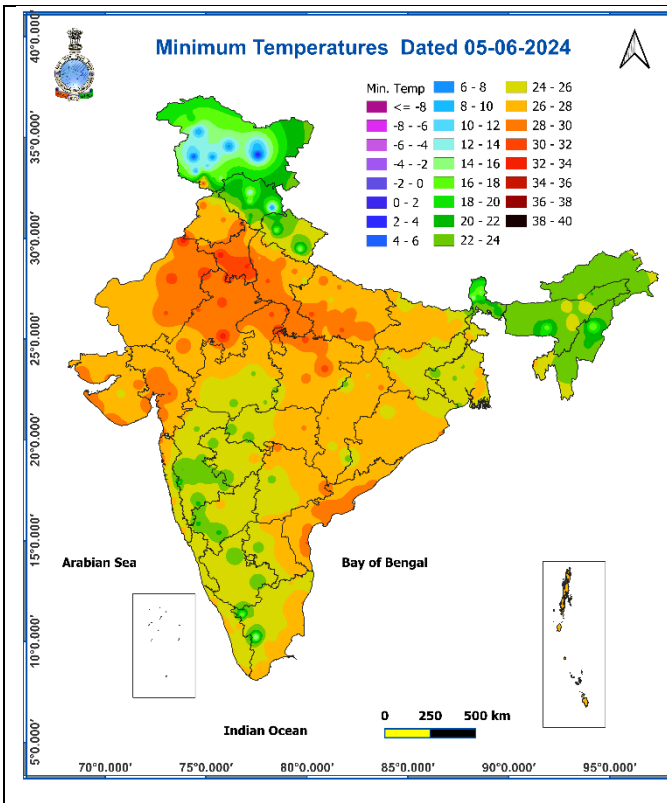
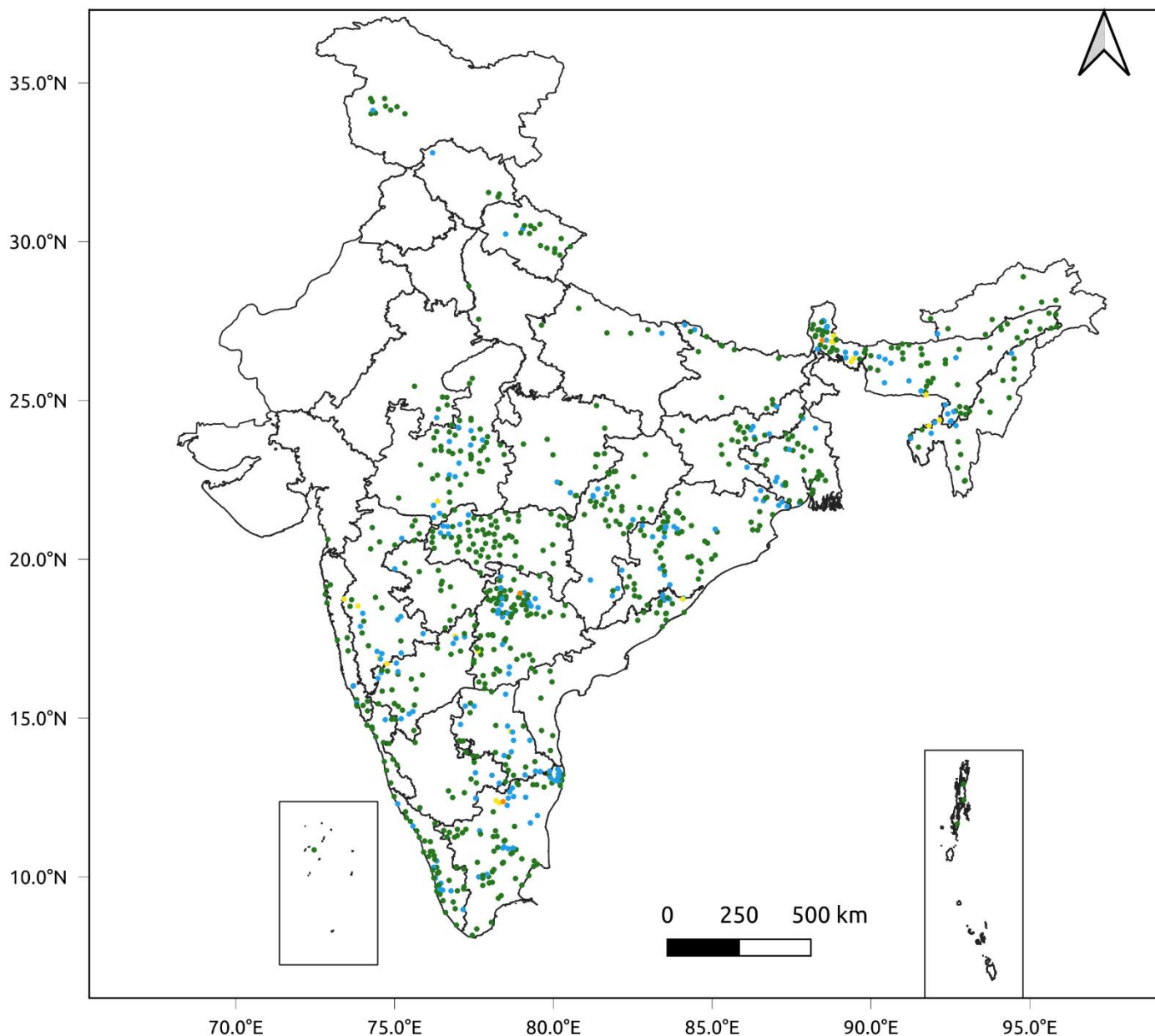


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



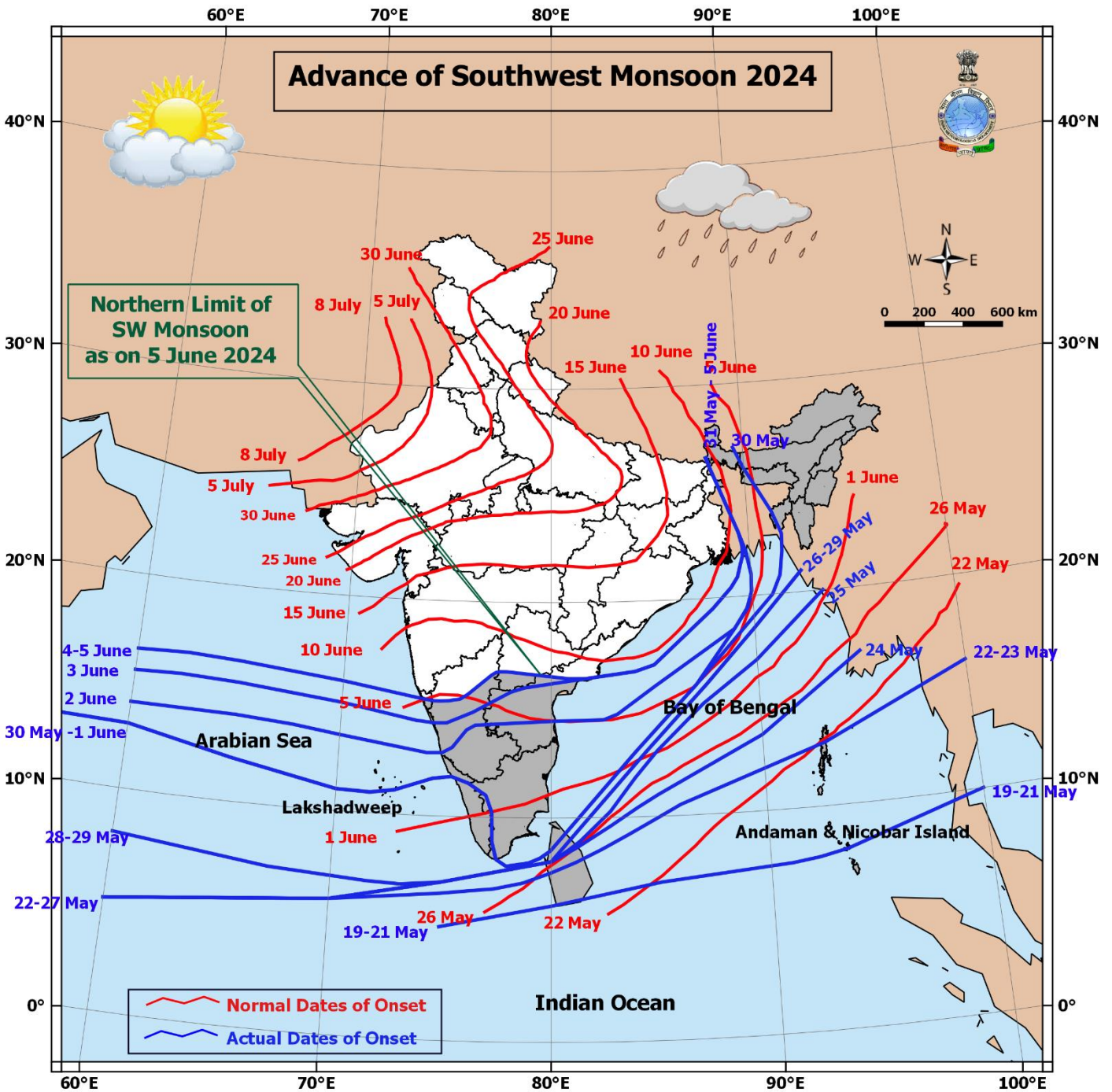
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 4-6-2024 to 0830 IST of 5-6-2024



## Legends

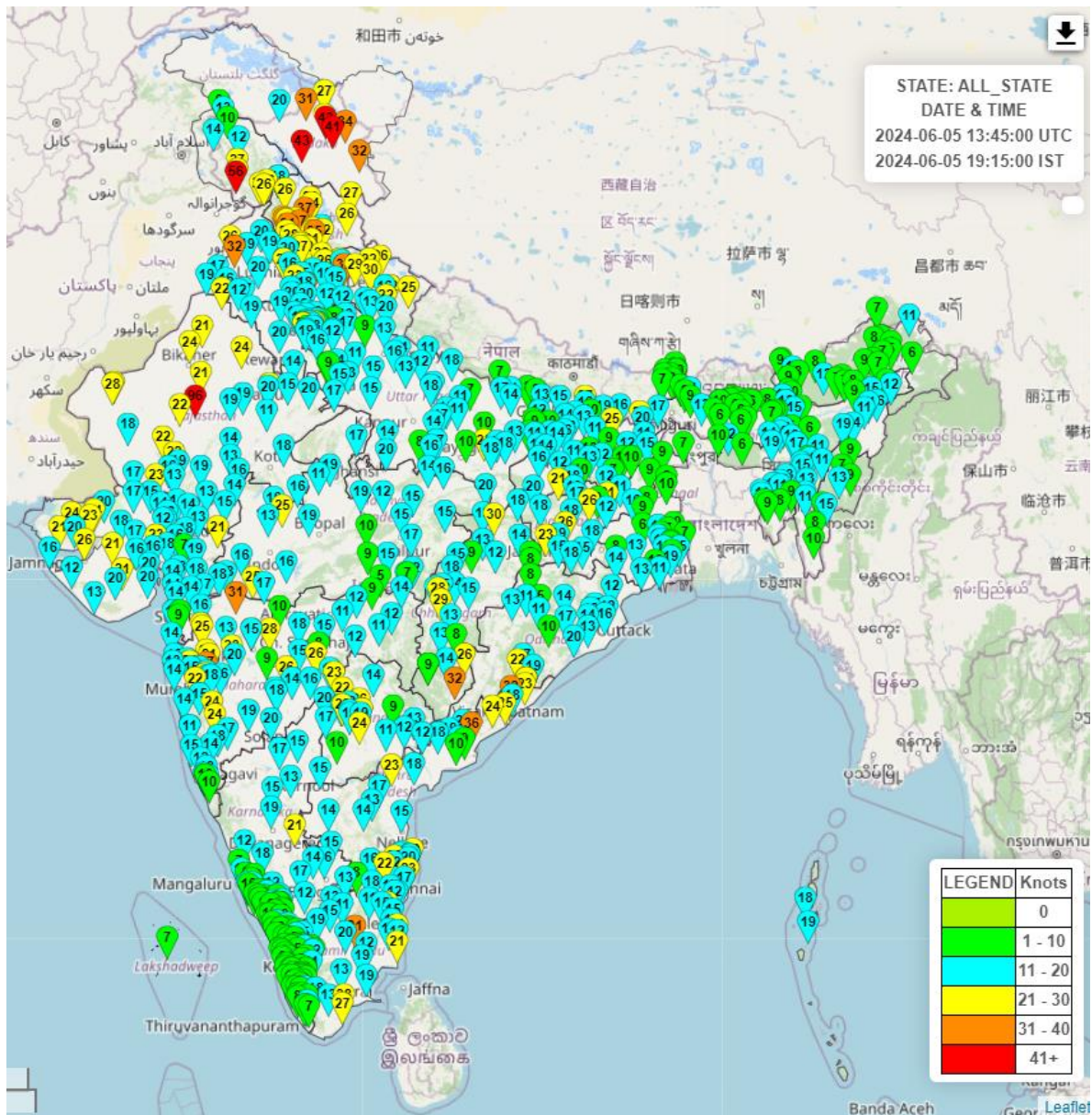
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall ( $\geq 204.5$  mm)

**Fig. 6: Advance of Southwest Monsoon 2024**



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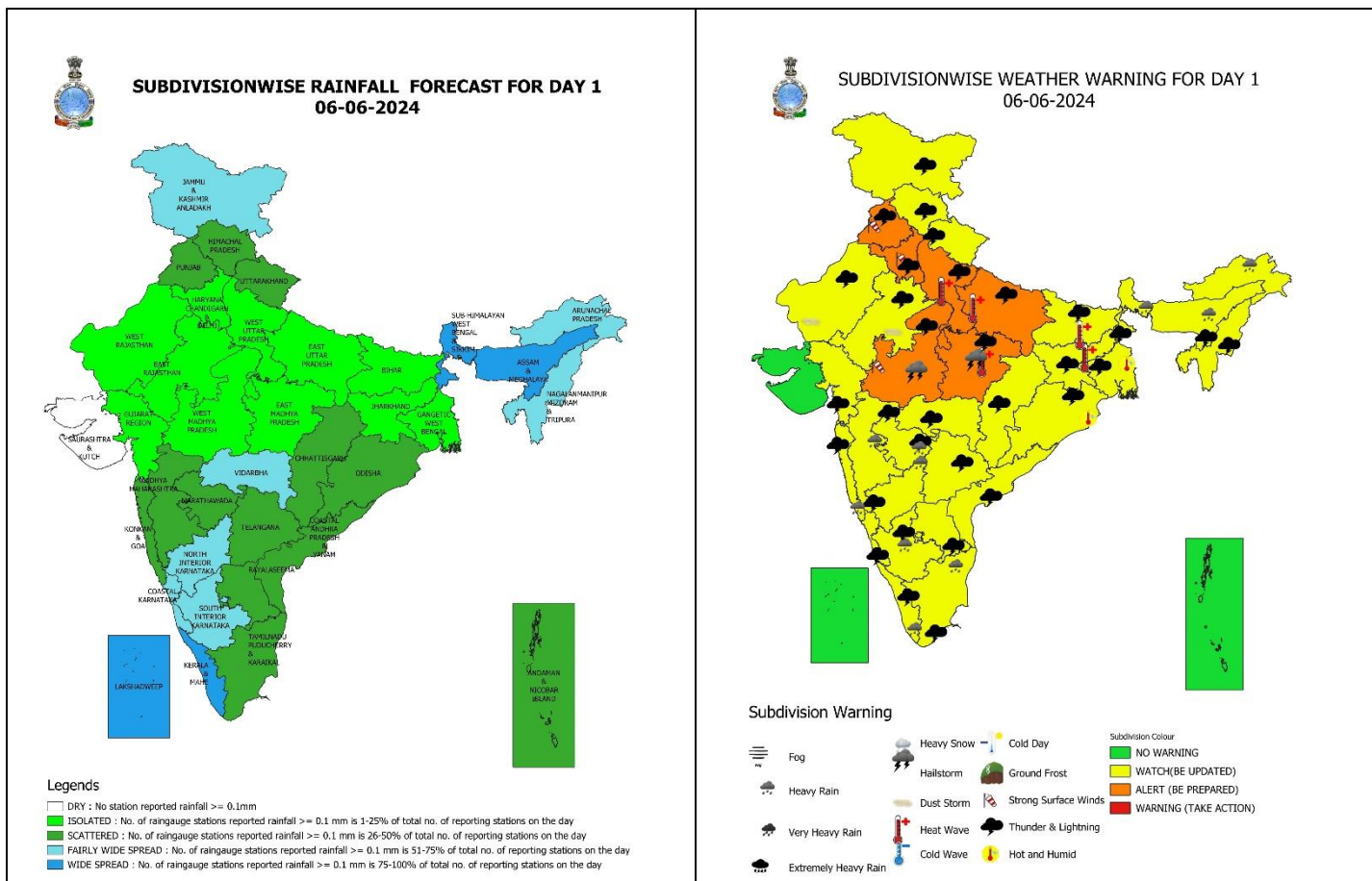
Fig. 7: Gusty winds reported over the country (in knots) from 0830 hours IST of 05.06.2024 to 1915 hours IST of 05.06.2024



1 Knot = 1.852 kmph

For more details, kindly refer: <http://aws.imd.gov.in:8091/>

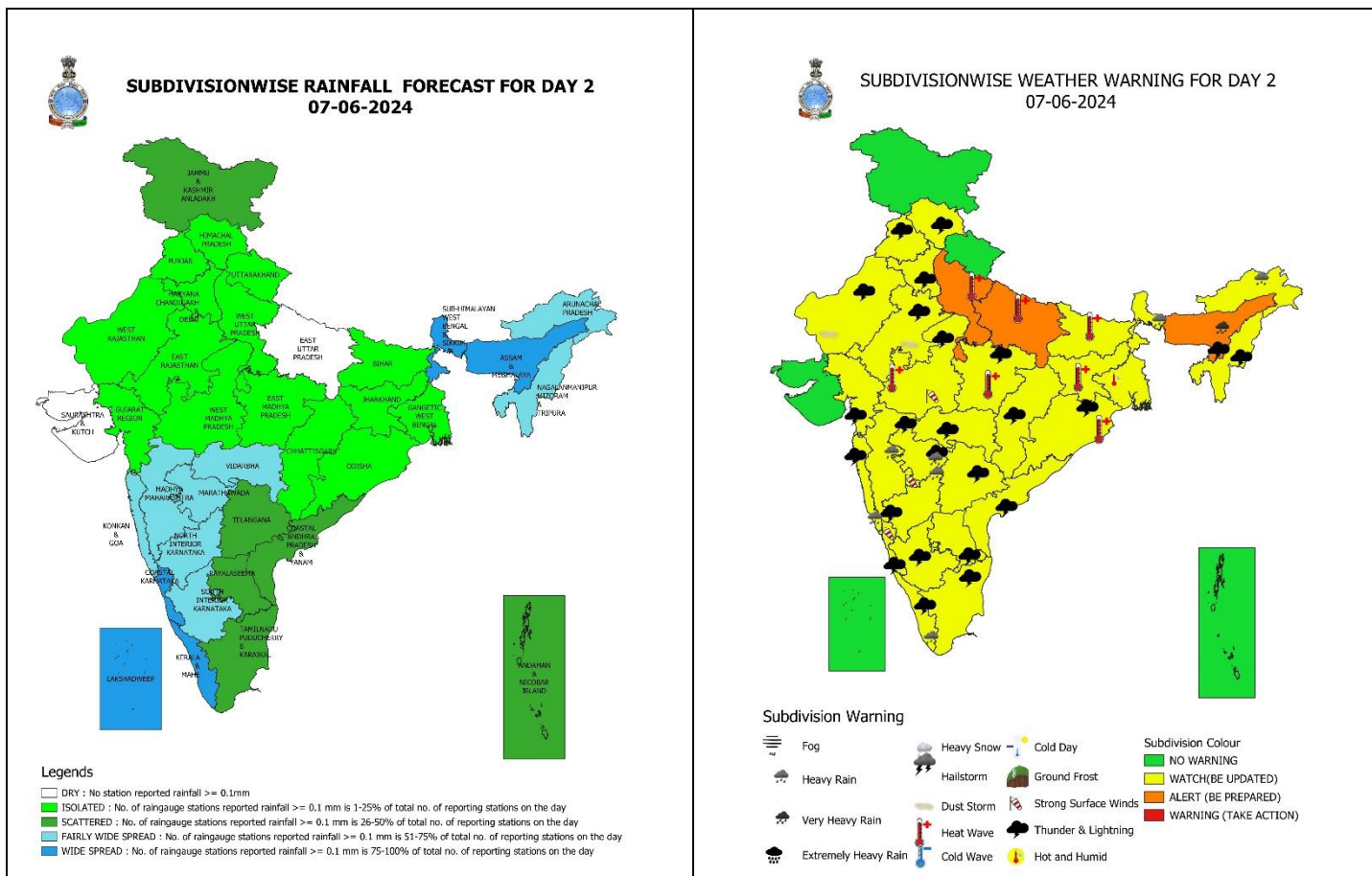
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**06 June (Day 1):**

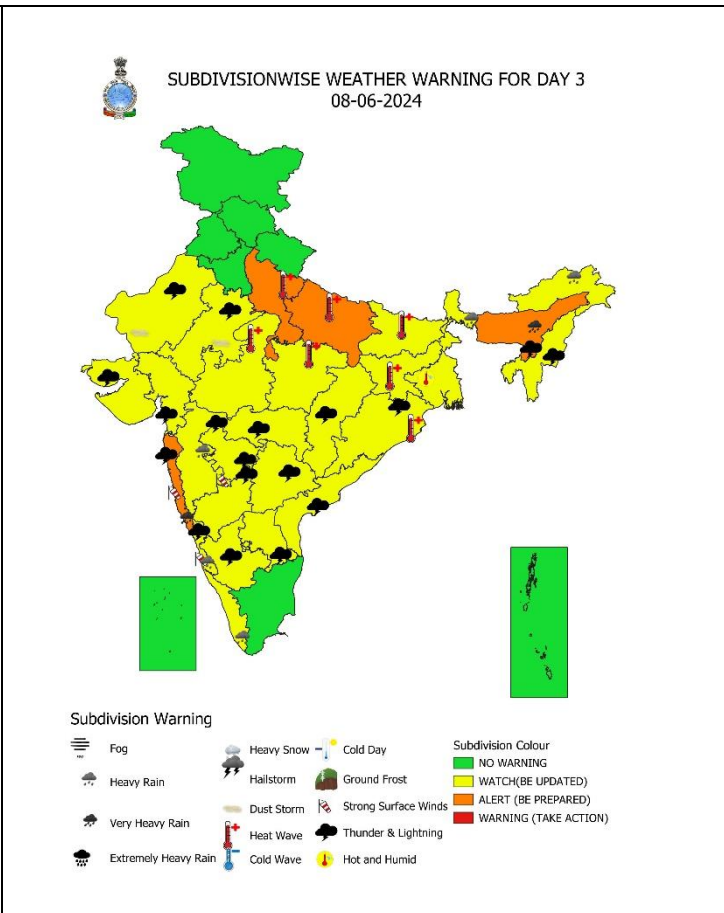
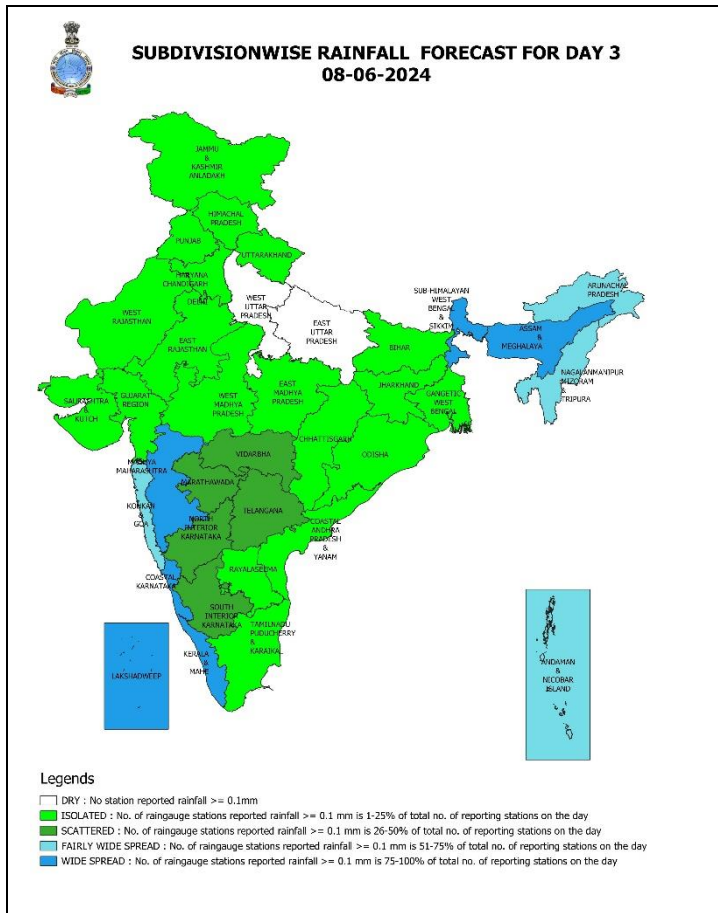
- ❖ **Heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning, hail & squally winds (speed reaching 50-60 kmph)** very likely at isolated places over Madhya Pradesh ; places **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Vidarbha, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada and Interior Karnataka; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Uttar Pradesh, Gangetic West Bengal, Jharkhand and Telangana; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Coastal Karnataka.
- ❖ **Thunderstorm/Duststorm** accompanied with **lightning & squall (speed reaching 50-60 kmph)** very likely at isolated places Punjab; with **lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Haryana-Chandigarh-Delhi and Rajasthan.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets of Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand.
- ❖ **Hot and humid weather** very likely to prevail over Gangetic West Bengal and Odisha.
- ❖ **squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail along and off south Maharashtra, Konkan, goa coasts, over gulf of Mannar and adjoining Comorin area, along and off Sri Lanka coast, off Tamil Nadu coast, southwest bob and adjoining southeast bob, adjoining southern parts of central bob, 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. Fishermen are advised not to venture into these areas.

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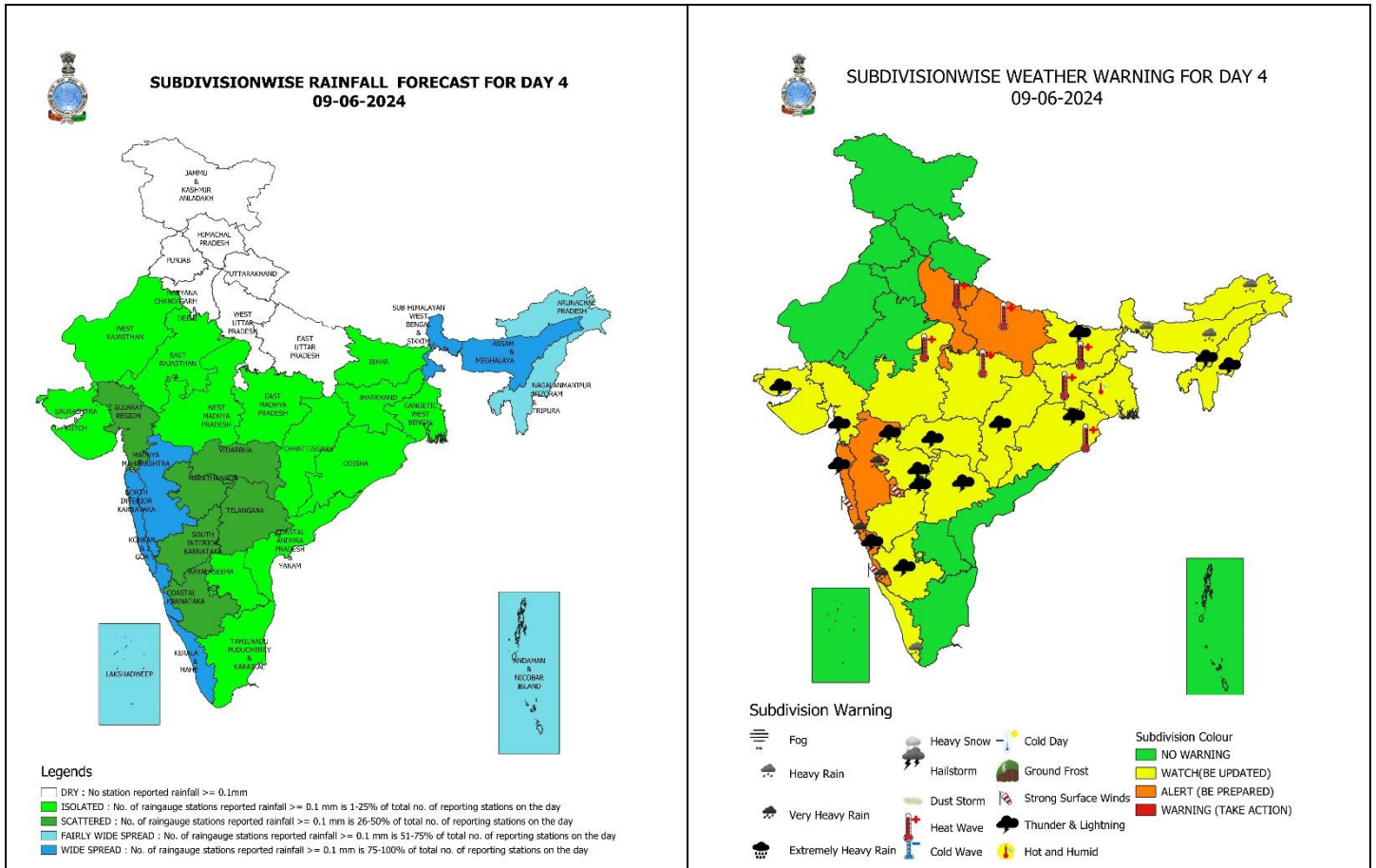
**07 June (Day 2):**

- ❖ **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, Madhya Maharashtra, Marathwada, Kerala & Mahe and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph)** very likely at isolated places over West Madhya Pradesh, Marathwada; **with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over East Madhya Pradesh, Konkan & Goa; **with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Vidarbha, Chhattisgarh and Telangana; **with lightning** at isolated places over Gujarat Region, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and 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 West Uttar Pradesh; **heat wave conditions** to prevail in isolated pockets of East Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand and Odisha.
- ❖ **Hot and humid weather** 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 and off Maharashtra, Konkan, goa, Karnataka, Kerala coasts, over Lakshadweep, Comorin areas, gulf of Mannar, off Sri Lanka, off Tamil Nadu coasts, central and adjoining south bob, 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. Fishermen are advised not to venture into these areas.



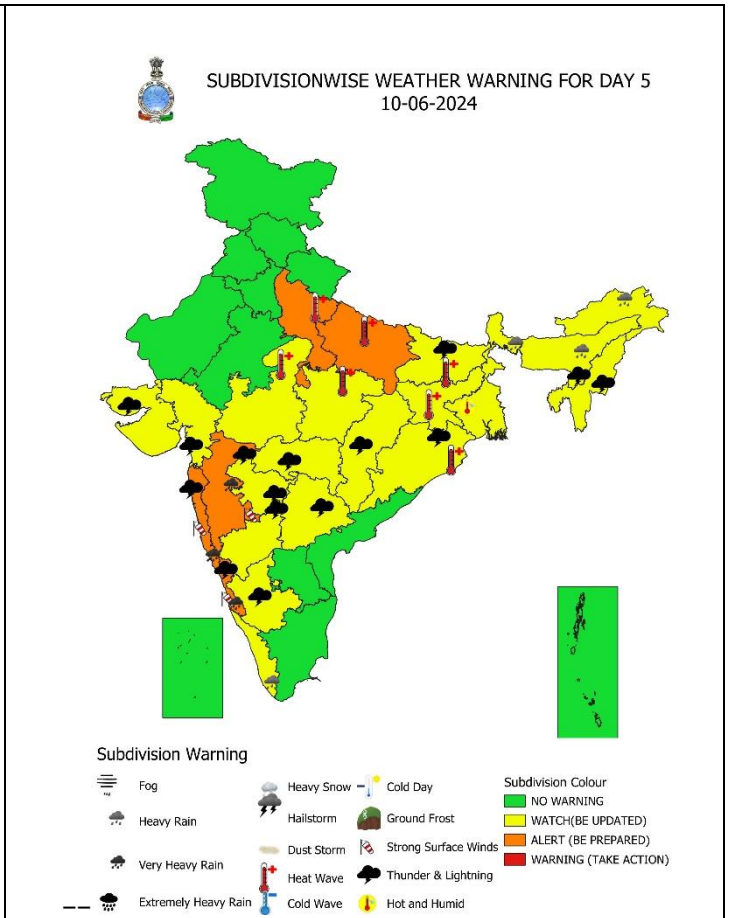
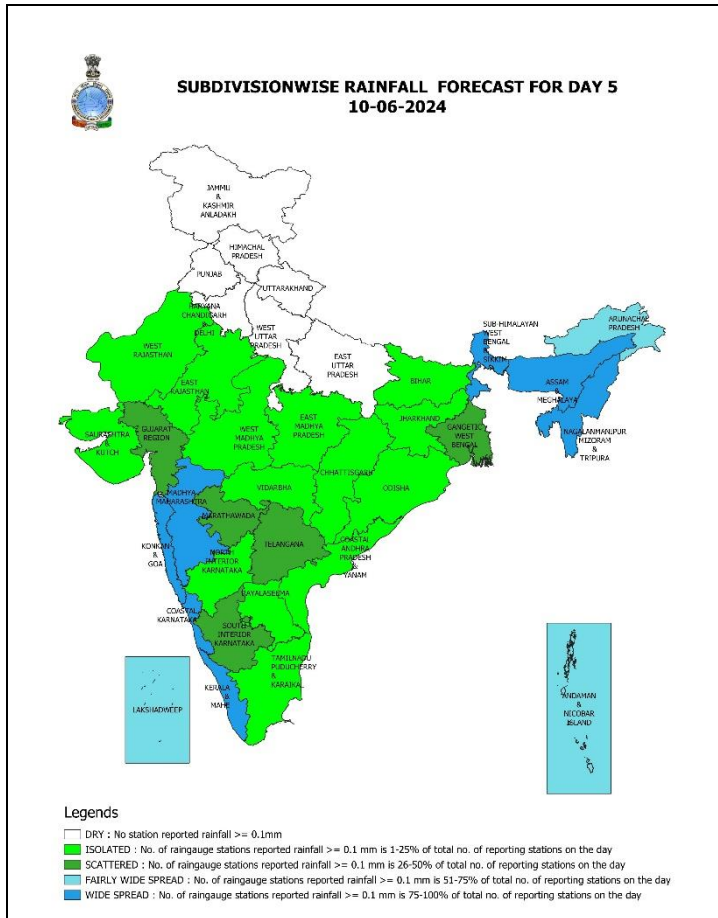
**08 June (Day 3):**

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya and Konkan & Goa; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Madhya Maharashtra, Kerala & Mahe and Coastal Karnataka.
- ❖ **Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph)** very likely at isolated places over Konkan & Goa, Madhya Maharashtra; **with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Odisha, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Vidarbha, Chhattisgarh and Telangana; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Andhra Pradesh & Yanam, Rayalaseema and 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 Madhya Pradesh, Bihar, Jharkhand and Odisha.
- ❖ **Hot and humid weather** 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 and off Maharashtra, Konkan, goa, Karnataka, Kerala coasts, over Lakshadweep, Comorin areas, gulf of Mannar, off Sri Lanka, off Tamil Nadu, off Andhra Pradesh coasts, central and adjoining south bob, 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. Fishermen are advised not to venture into these areas.



## 09 June (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Konkan & Goa, Madhya Maharashtra and Coastal Karnataka; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph)** very likely at isolated places over Konkan & Goa, Madhya Maharashtra; **with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Bihar, Odisha, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Vidarbha, Chhattisgarh and Telangana; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state and Karnataka.
- ❖ **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 Madhya Pradesh, Bihar, Jharkhand and Odisha,
- ❖ **Hot and humid weather** 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 and off Maharashtra, Konkan, goa, Karnataka, Kerala coasts, over Lakshadweep, Comorin areas, gulf of Mannar, off Sri Lanka, off Tamil Nadu, off Andhra Pradesh coasts, central and adjoining south bob, 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. Fishermen are advised not to venture into these areas.

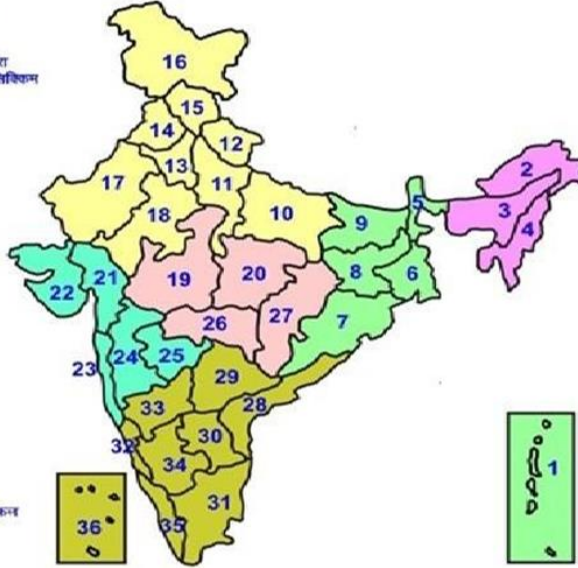


**10 June (Day 5):**

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Konkan & Goa, Madhya Maharashtra and Coastal Karnataka; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph)** very likely at isolated places over Konkan & Goa, Madhya Maharashtra; **with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Bihar, Odisha, Marathwada; **with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Vidarbha, Chhattisgarh and Telangana; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state and Karnataka.
- ❖ **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 Madhya Pradesh, Bihar, Jharkhand and Odisha,
- ❖ **Hot and humid weather** 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 and off Maharashtra, Konkan, Goa, Karnataka, Kerala coasts, over Lakshadweep, Comorin areas, gulf of Mannar, off Sri Lanka, off Tamil Nadu, off Andhra Pradesh coasts, central and adjoining south bob, 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. Fishermen are advised not to venture into these areas.

## 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 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 गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 तमिलनाडु, पुदुचेरी एवं कराईकल
- 31 उत्तरी कर्नाटक
- 32 दक्षिणी कर्नाटक
- 33 उत्तरी 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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

### 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  $4.5^\circ\text{C}$  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)

\* 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)