

Friday, May 31, 2024  
Time of Issue: 0745 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### Advance of Southwest Monsoon:

- ❖ The Northern Limit of Monsoon passes through 13°N/60°E, 12°N/65°E, 11°N/70°E, Amini, Kannur, Coimbatore, Kanyakumari, 8.5°N/80°E, 13°N/84°E, 16°N/87°E, 20°N/91°E, Agartala, Dhubri, 27°N/89.5°E.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into some more parts of central Arabian Sea, remaining parts of south Arabian Sea, Lakshadweep area and Kerala, some parts of Karnataka, Some more parts of Tamil Nadu, Southwest & Central Bay of Bengal, remaining parts of Northeast Bay of Bengal and Assam and Meghalaya and some parts of Sub-Himalayan West Bengal and Sikkim during next 2-3 days.
- ❖ A cyclonic circulation lies over northeast Assam & neighbourhood in lower tropospheric levels. Strong southwesterly/southerly winds are prevailing from Bay of Bengal to northeastern States 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 Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during next 7 days.
  - ✓ Isolated **heavy/very heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim during next 5 days and isolated **heavy rainfall** over Nagaland, Manipur, Mizoram & Tripura on 31<sup>st</sup> May, 2024.
- ❖ A cyclonic circulation lies over northwest Uttar Pradesh & neighbourhood and a trough runs from above this to west Bangladesh in lower tropospheric levels. Under its influence; Isolated to scattered light/moderate rainfall with **thunderstorm, lightning & gusty winds (30-40 kmph)** very likely over Bihar, Jharkhand, Gangetic West Bengal, Odisha, Chhattisgarh during next 5 days and over Madhya Pradesh, Vidarbha, Madhya Maharashtra, Marathwada during 01<sup>st</sup>-03<sup>rd</sup> June.
- ❖ A shear zone runs roughly along Lat. 8°N over south peninsular India and a cyclonic circulation lies over southeast Arabian Sea off south Kerala in middle 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; isolated to scattered light to moderate rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh, Telangana, Rayalaseema during next 7 days.
  - ✓ **Isolated heavy to very heavy rainfall very likely over Kerala & Mahe during next 7 days.**
  - ✓ **Isolated heavy rainfall very likely over Andaman & Nicobar Islands during 31<sup>st</sup> May- 02<sup>nd</sup> June; Tamil Nadu and South Interior Karnataka during 01<sup>st</sup>-03<sup>rd</sup> June, 2024.**
  - ✓ **Strong surface winds (speed reaching 30-40 kmph) likely over Coastal Andhra Pradesh & Yanam, Rayalaseema and Karnataka during 31<sup>st</sup> May-03<sup>rd</sup> June.**
- ❖ A Western Disturbance seen as a cyclonic circulation over Jammu division & neighbourhood with trough aloft in lower & middle tropospheric westerlies roughly along Long. 73°E to the north of Lat. 30°N. Under its influence;
  - ✓ Isolated to scattered light rainfall accompanied with **thunderstorm, lightning** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand during 31<sup>st</sup> May-02<sup>nd</sup> June, 2024.
  - ✓ Isolated very light/light rainfall with **thunderstorm, lightning** very likely over plains of Northwest India during 31<sup>st</sup> May-02<sup>nd</sup> June.
  - ✓ **Duststorm** very likely over Uttar Pradesh during 31<sup>st</sup> May-01<sup>st</sup> and Haryana-Chandigarh-Delhi on 31<sup>st</sup> May.
- ❖ **Strong surface winds (speed reaching 30-40 kmph) likely over Gujarat State on 31<sup>st</sup> May.**

#### Maximum temperature observation:

**Areas having maximum temperatures greater than 42°C:** Yesterday, maximum temperatures were in the range of 45-48°C in many parts of Rajasthan, Haryana-Chandigarh-Delhi; in isolated pockets over Uttar Pradesh, Bihar, Jharkhand, Odisha, East Madhya Pradesh, Vidarbha; in the range of 42-45°C in many parts of West Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam; in isolated pockets over Gujarat, Telangana, Rayalaseema. These were above normal by 3- 6°C over many parts of Northwest India and in isolated parts of Central & East India.

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

- ❖ **Heat wave to severe heat wave conditions** very likely in isolated pockets of Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Odisha on 31<sup>st</sup> & 01<sup>st</sup> June, 2024. **Heat wave conditions** very likely in isolated pockets of Madhya Pradesh, Vidarbha, Uttarakhand on 31<sup>st</sup> May, 2024.
- ❖ **Hot and humid weather** very likely to prevail over isolated pockets of Konkan & Goa on 31<sup>st</sup> & May-01<sup>st</sup> June; Gangetic West Bengal on 31<sup>st</sup> May, 2024.
- ❖ **Warm night conditions** in isolated pockets very likely to prevail over Punjab, Haryana-Chandigarh-Delhi, Bihar, Odisha on 31<sup>st</sup> May & 01<sup>st</sup> June; Uttar Pradesh on 31<sup>st</sup> May, 2024.

## Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of Yesterday): **at most places** over Andaman & Nicobar Islands, Assam & Meghalaya, Kerala & Mahe and Lakshadweep; **at a few places** over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura and **at isolated places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, West Uttar Pradesh, Odisha, Arunachal Pradesh and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heavy Rainfall recorded** (from 0830 hours IST to 1730 hours IST of Yesterday): **Heavy rainfall** observed at isolated places over Meghalaya and Tripura.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of Yesterday): (in cm): **Assam & Meghalaya:** Cherrapunji-9, Goalpara-4, Haflong-3, Dhubri, Guwahati, Shillong, North Lakhimpur & Majbat-1 each; **Nagaland, Manipur, Mizoram & Tripura:** Kailashahar-7, Aizwal-2; **Andaman & Nicobar Islands:** Hut Bay-6, Mayabandar-3, Long Island, Port Blair & Car Nicobar-1 each; **Kerala:** Kottayam, Punalur & Kochi-1; **Sub-Himalayan West Bengal & Sikkim:** Tadong-6, Gangtok-2, Cooch Behar-1; **Himachal Pradesh:** Manali-1; **Lakshadweep:** Minicoy-1.
- ❖ **Maximum wind speed** recorded (from 0830 hours IST to 1730 hours IST of Yesterday): (in knots): **Gujarat State:** Jamnagar-27, Mahuva-25, Kandla-24, Arnej-23, Targhadia & Bhavnagar-22; **Rajasthan:** Dholpur-31, Bikaner-26, Fatehpur-22; **Himachal Pradesh:** Kufri-35, Bajaura-33, Seobagh-32, Mandi-29, Kotkhai-27; **Haryana:** Karnal-26, Gurgaon-23, Nuh-22, Mahendragarh-21; **Assam & Meghalaya:** Shillong-37, Umiam-35, Nongstoin-31, Dudhnoi-29, Rusubelpara-26; **Gangetic West Bengal:** Raidighi-28, Diamond Harbour & Canning-23; **Uttarakhand:** Pithoragarh-27; **Kerala:** Karumadi-25.
- ❖ Yesterday, **heat wave to severe heat wave conditions** prevailed over many parts of Rajasthan, Haryana-Chandigarh-Delhi, Jharkhand, East Madhya Pradesh; in some parts of Uttar Pradesh and Odisha. **Heat wave conditions** prevailed in many parts of Punjab, West Madhya Pradesh and Chhattisgarh; in some parts of Bihar, Gujarat and Vidarbha and in isolated pockets of Himachal Pradesh. **Heat wave conditions** have been prevailing over Haryana, Chandigarh & Delhi, Rajasthan since 17<sup>th</sup> and over Madhya Pradesh & Uttar Pradesh since 18<sup>th</sup> May, 2024.
- ❖ Yesterday, **Warm night conditions** observed in isolated pockets of Punjab, Haryana, Delhi, Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Odisha and Madhya Pradesh.
- ❖ **Minimum Temperature Departures (as on 30-05-2024):** Minimum temperatures were **markedly above normal (5.1°C or more)** at many places over East Uttar Pradesh; at a few places over Haryana-Chandigarh-Delhi, Bihar, West Uttar Pradesh; at isolated places over West Madhya Pradesh, Jharkhand, Punjab; **appreciably above normal (3.1°C to 5.0°C)** at many places over Odisha; at a few places over Gangetic West Bengal; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Konkan & Goa; **above normal (1.6°C to 3.0°C)** at many places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Chhattisgarh, East Madhya Pradesh, Gujarat state; at a few places over Vidarbha; at isolated places over Nagaland, Manipur, Mizoram & Tripura. These were **below normal (-1.6°C to -3.0°C)** at a few places over Assam & Meghalaya 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 30-05-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at most places over Punjab, Haryana-Chandigarh-Delhi; a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, Uttar Pradesh, Himachal Pradesh; at isolated places over Bihar, Madhya Pradesh, Uttarakhand; **appreciably above normal (3.1°C to 5.0°C)** at a few places Sub-Himalayan West Bengal & Sikkim, Jharkhand; at isolated places over Chhattisgarh; **above normal (1.6°C to 3.0°C)** at many places over Gujarat Region, Vidarbha; at a few places over Odisha; at isolated places over Saurashtra & Kutch, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam. These were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **below normal (-1.6°C to -3.0°C)** at most places over Kerala & Mahe; at many places over Arunachal Pradesh and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 48.3°C was reported at **Ganganagar (West Rajasthan)** over the country.

## Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Monsoon continues to pass through 13°N/60°E, 12°N/65°E, 11°N/70°E, Amini, Kannur, Coimbatore, Kanyakumari, 8.5°N/80°E, 13°N/84°E, 16°N/87°E, 20°N/91°E, Agartala, Dhubri, 27°N/89.5°E.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into some more parts of central Arabian Sea, remaining parts of south Arabian Sea, Lakshadweep area and Kerala, some parts of Karnataka, Some more parts of Tamil Nadu, Southwest & Central Bay of Bengal, remaining parts of Northeast Bay of Bengal and Assam and Meghalaya and some parts of Sub-Himalayan West Bengal and Sikkim during next 2-3 days.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood extending upto 3.1 km above mean sea level persists.
- ❖ The Western Disturbance as a cyclonic circulation over Jammu division & neighbourhood at 3.1 km above mean sea level with trough aloft in lower & middle tropospheric westerlies with its axis at 4.5 km above mean sea level runs roughly along Long. 73°E to the north of Lat. 30°N persists.
- ❖ The cyclonic circulation over northwest Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over northwest Uttar Pradesh to west Bangladesh across southeast Uttar Pradesh, south Bihar and Sub-Himalayan West Bengal & Sikkim at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over southeast Arabian Sea off south Kerala at 5.8 km above mean sea level persists.
- ❖ The shear zone roughly along Lat. 8°N over south peninsular India between 3.1 & 4.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Westcentral Arabian Sea off Oman coast between 1.5 & 4.5 km above mean sea level persists.

## Weather Forecast for next 7 days (Upto 0830 hours IST of 07<sup>th</sup> June, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ **Gradual fall in maximum temperatures by 2-4°C very likely over Northwest & Central India during next 4 days.**
- ❖ No significant change in maximum temperatures very likely over East India during next 24 hours and gradual fall by 2-3°C thereafter.
- ❖ Rise in maximum temperatures by 2-3°C very likely over Maharashtra and south peninsular India during next 48 hours and no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

## Weather Outlook for subsequent 3 days (During 07<sup>th</sup>-09<sup>th</sup> 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

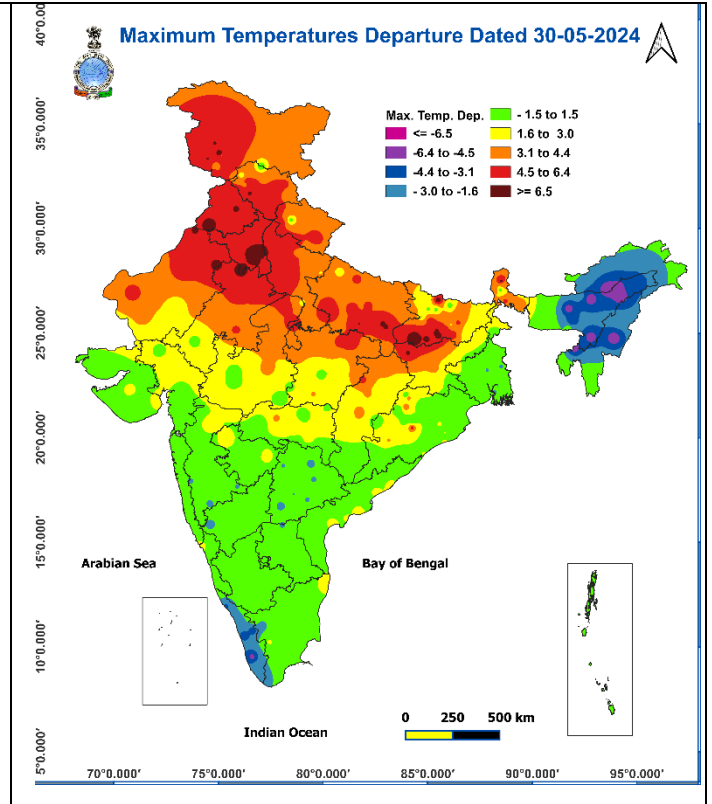
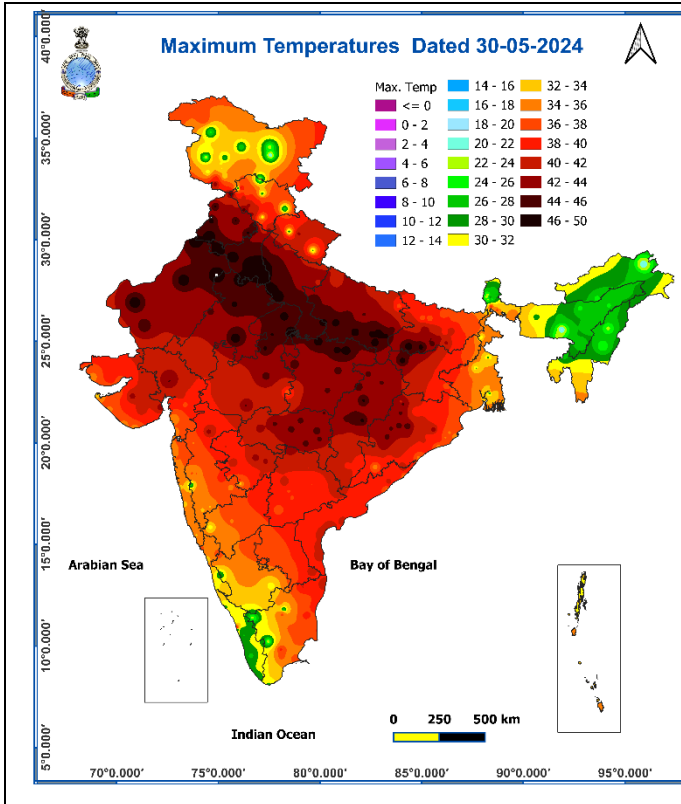
7 Days Rainfall Forecast								
S. No.	Subdivision	31-May	01-Jun	02-Jun	03-Jun	04-Jun	05-Jun	06-Jun
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	WS	WS	WS	WS	WS	WS	WS
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	WS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	FWS	WS	WS	WS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	WS	WS	WS	WS
6	GANGETIC WEST BENGAL	ISOL	SCT	SCT	ISOL	ISOL	ISOL	ISOL
7	ODISHA	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
8	JHARKHAND	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
9	BIHAR	SCT	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
12	UTTARAKHAND	ISOL	FWS	SCT	ISOL	ISOL	SCT	SCT
13	HARYANA CHANDIGARH & DELHI	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
14	PUNJAB	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	ISOL	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	SCT	ISOL	ISOL	DRY	ISOL	SCT	SCT
17	WEST RAJASTHAN	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJARAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	SCT	SCT	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
30	RAYALASEEMA	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	SCT	SCT	SCT	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	SCT	SCT	FWS	FWS	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	DRY	ISOL	FWS	FWS	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	ISOL	SCT	FWS	FWS	FWS	FWS	FWS
35	KERALA & MAHE	WS	WS	WS	WS	WS	WS	WS
36	LAKSHADWEEP	WS	WS	WS	WS	WS	WS	WS

Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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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**

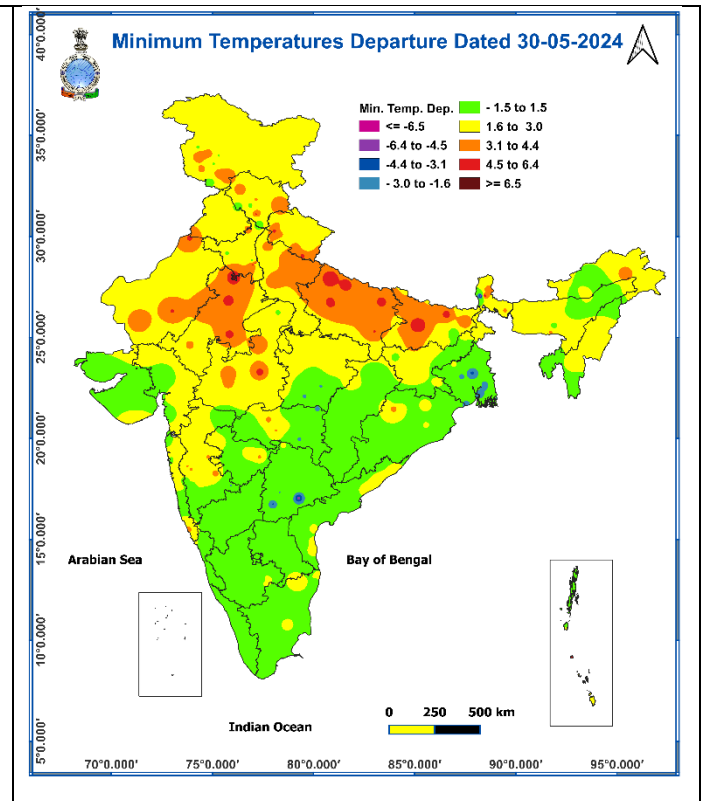
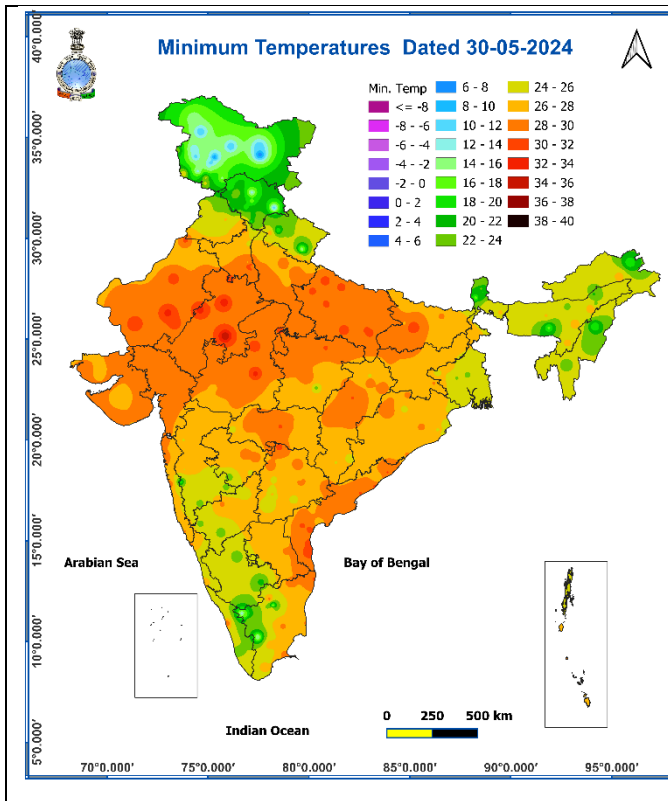
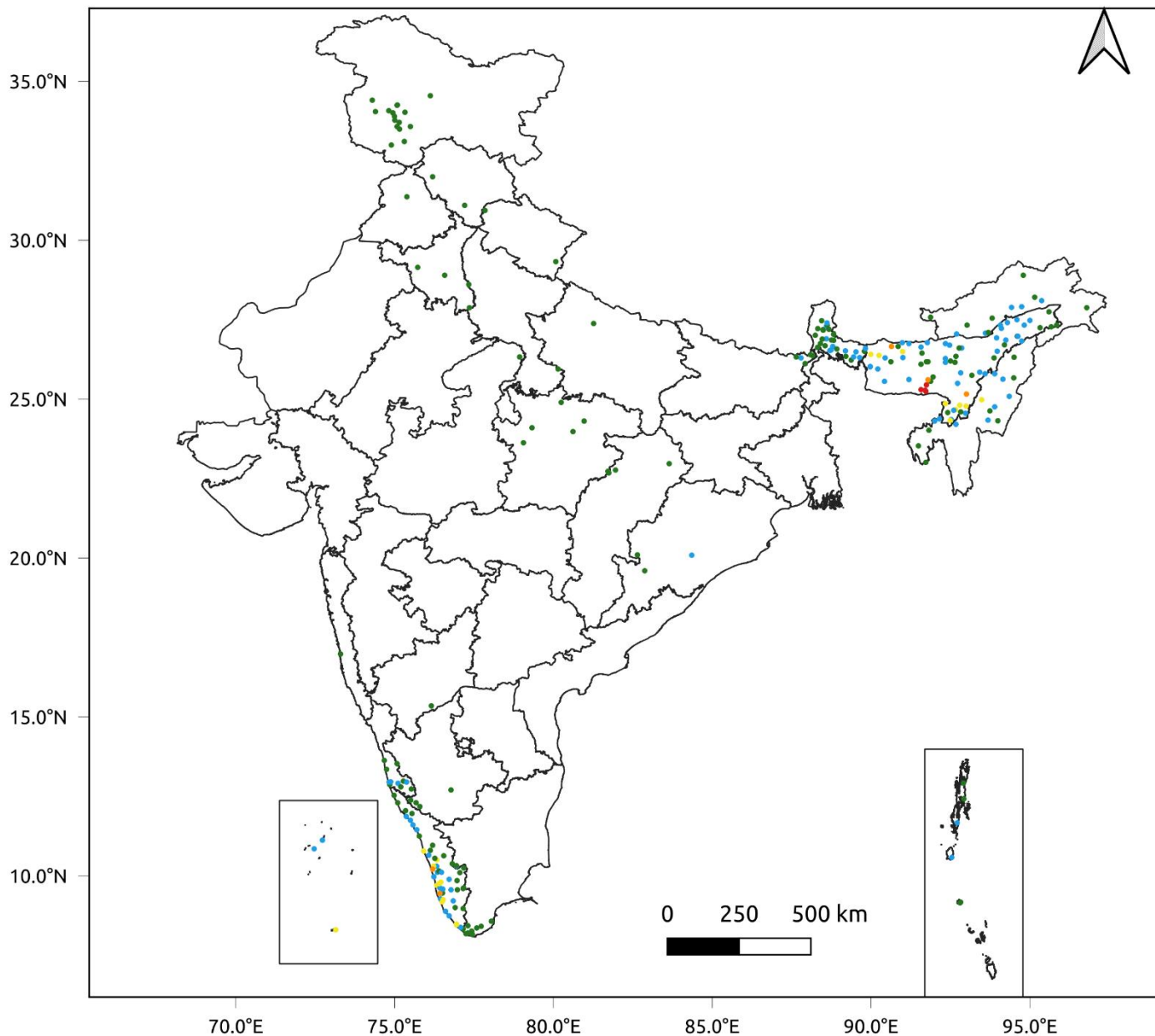


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



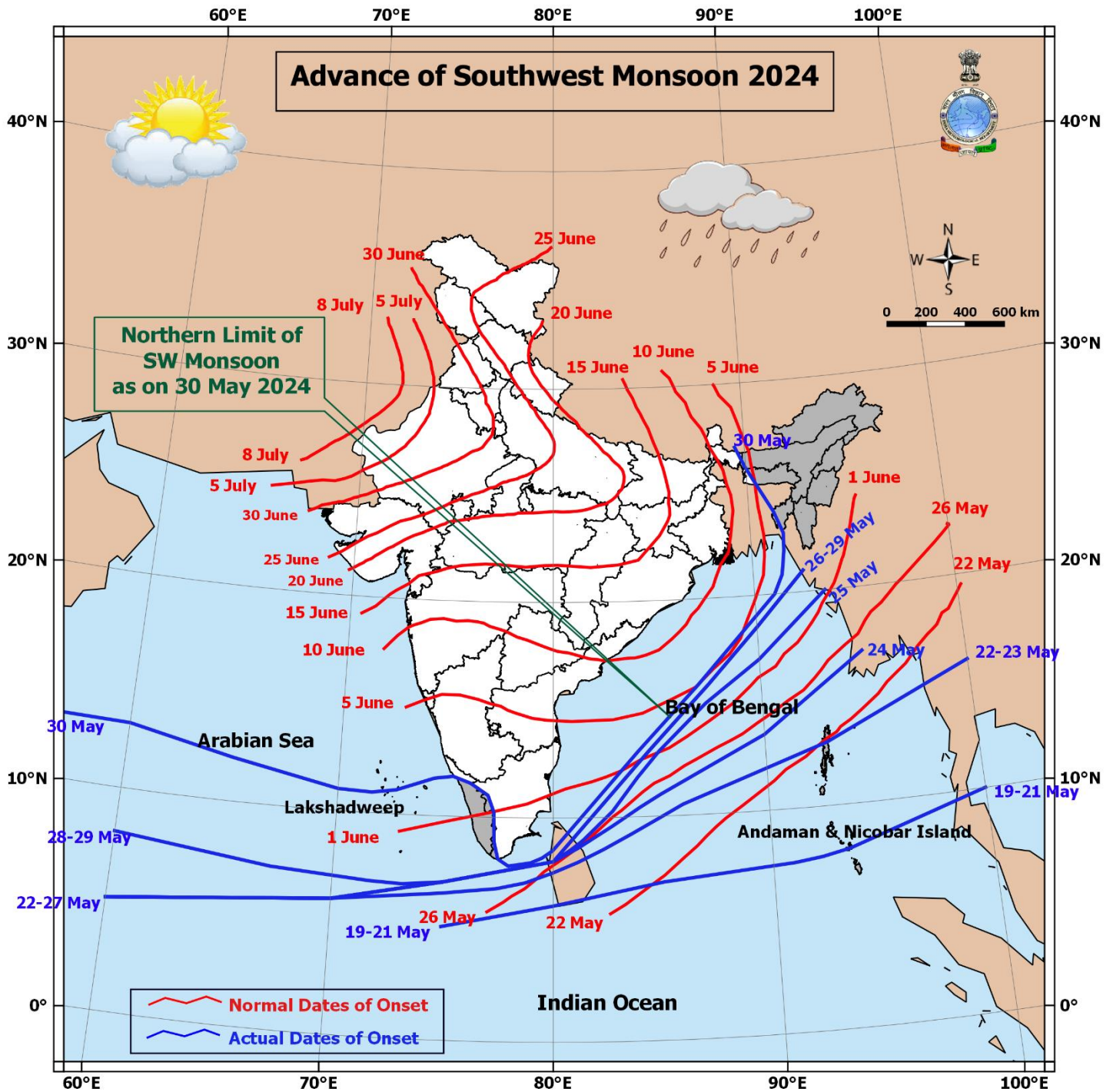
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 29-5-2024 to 0830 IST of 30-5-2024



## Legends

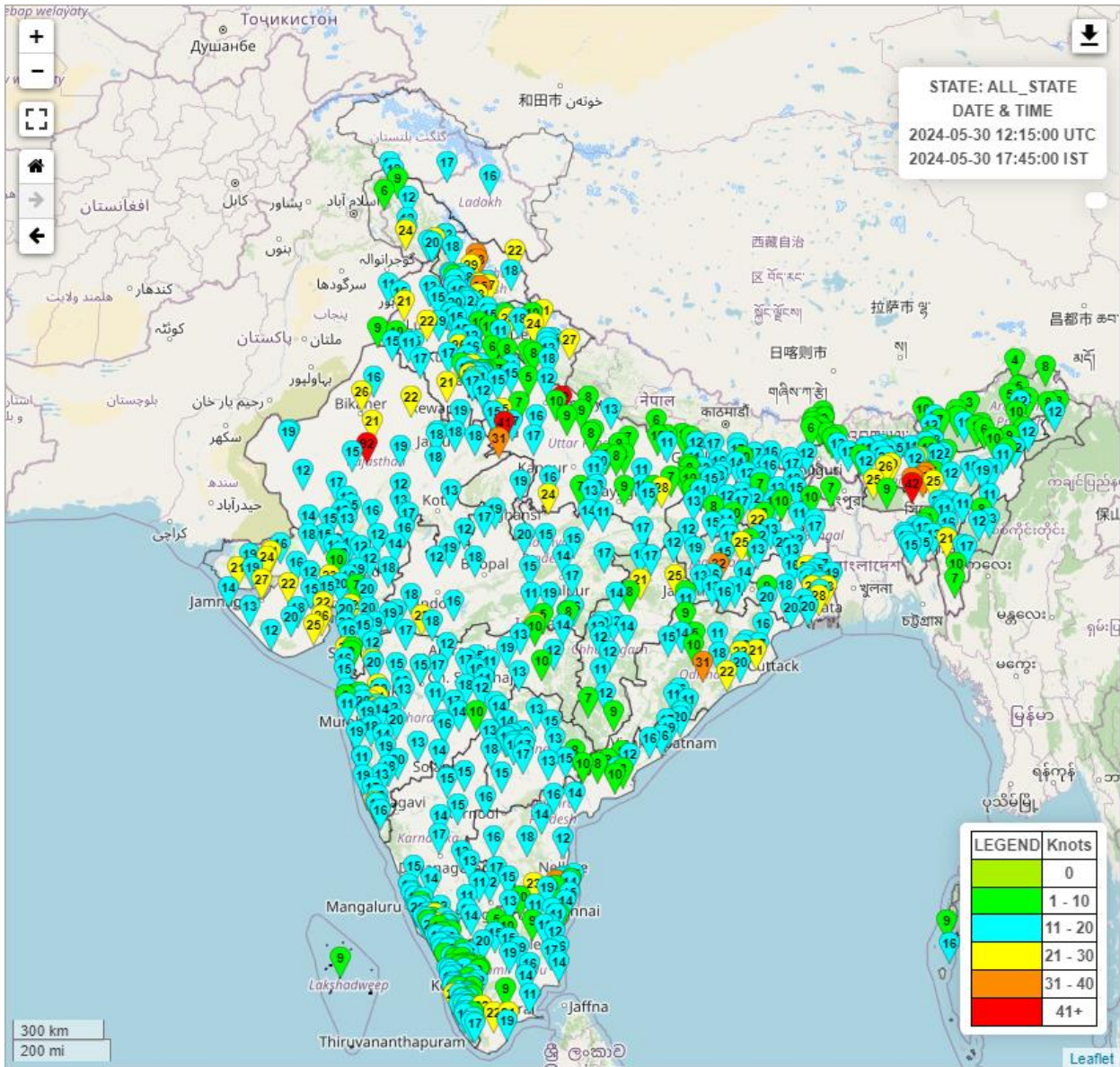
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall ( $\geq 204.5$  mm)

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



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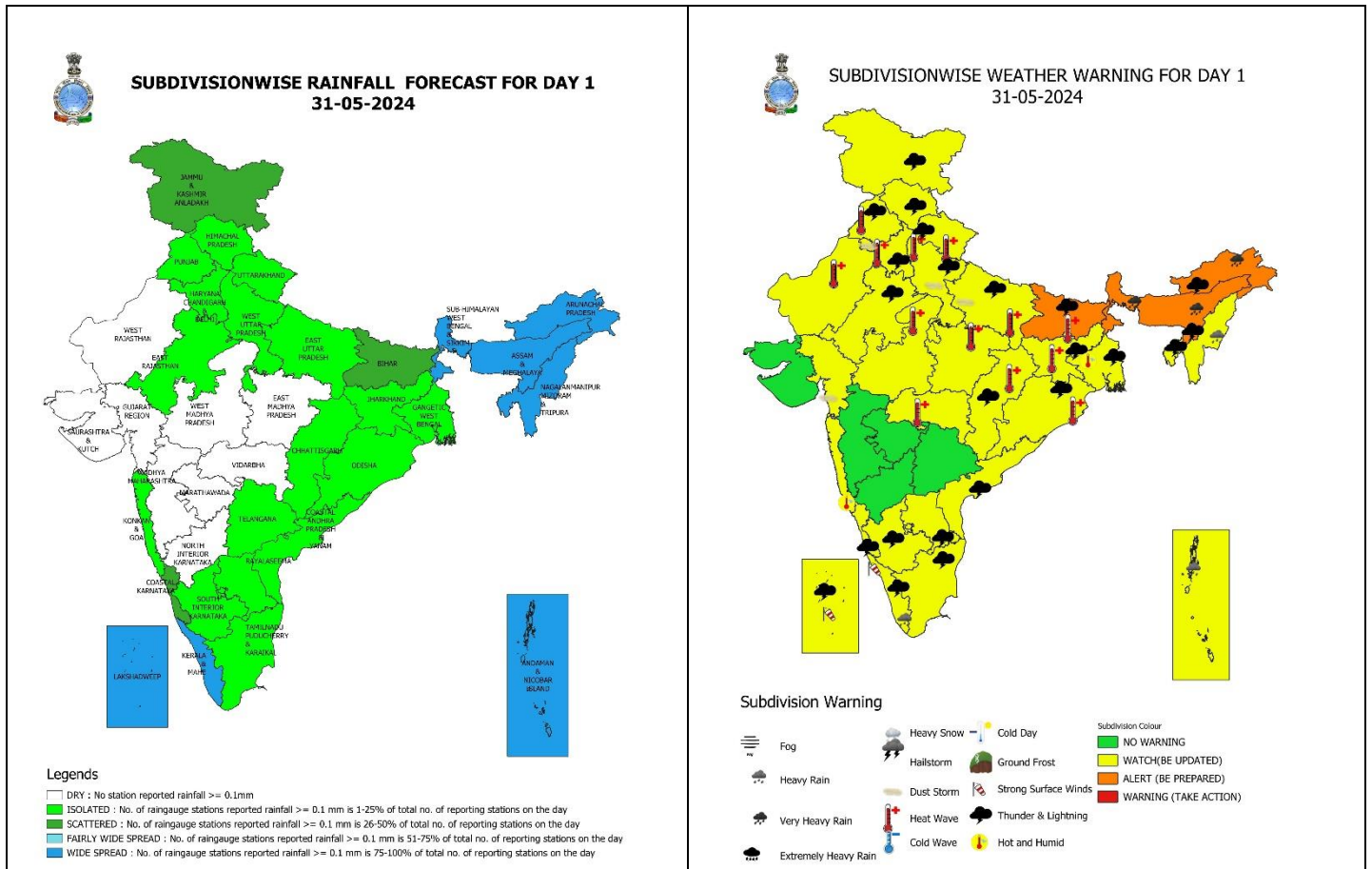
**Fig. 7: Gusty winds reported over the country (in knots) from 0830 hours IST of 30.05.2024 to 1745 hours IST of 30.05.2024**



**1 Knot = 1.852 kmph**

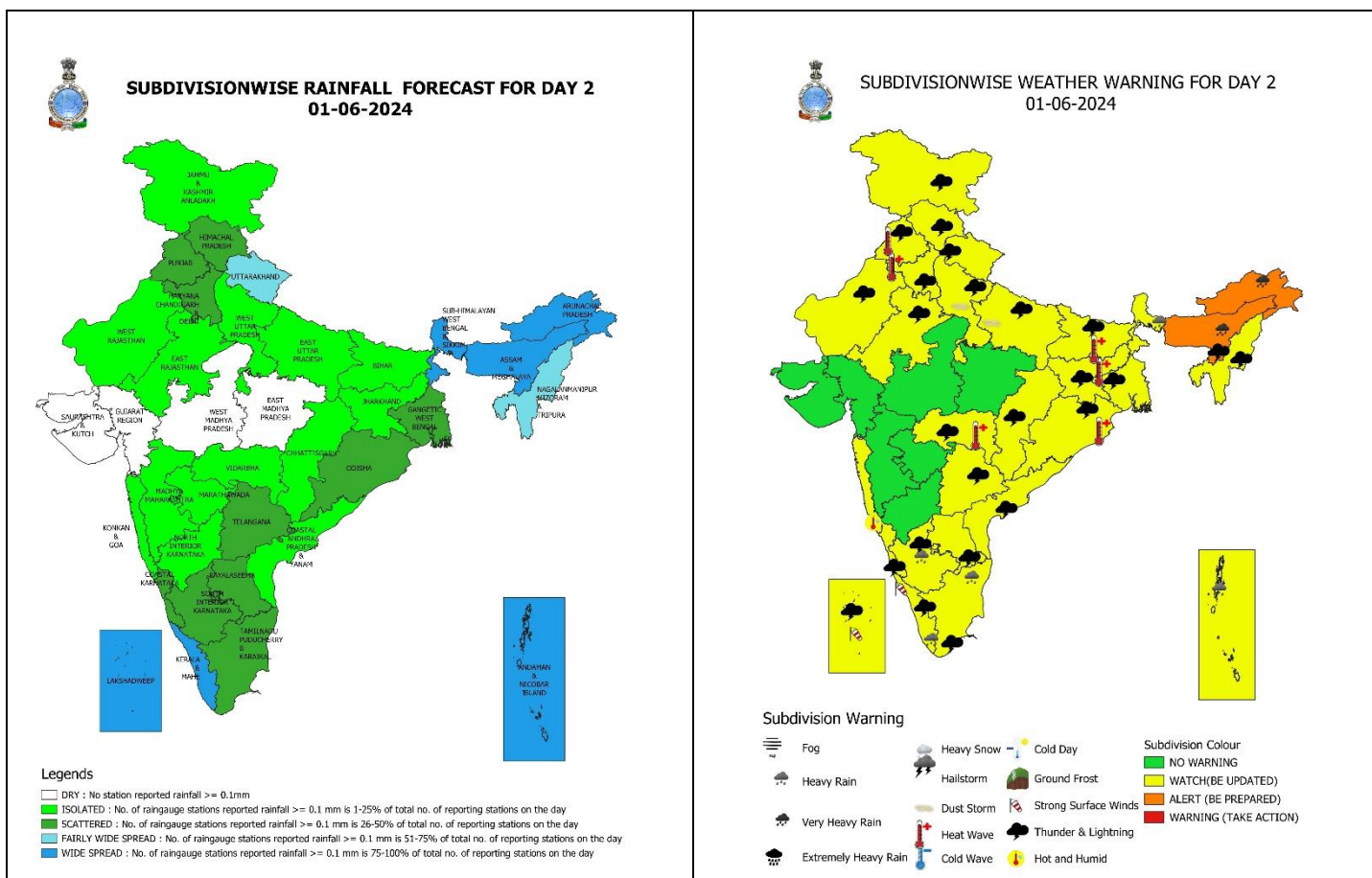
For more details, kindly refer: <http://aws.imd.gov.in:8091/>

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**31 May (Day 1):**

- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; **Heavy rainfall** likely at isolated places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 50-60 kmph)** very likely at isolated places over Gangetic West Bengal; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Chhattisgarh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Haryana-Chandigarh-Delhi, Punjab, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand and Kerala & Mahe; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Rayalaseema, Coastal Andhra Pradesh & Yanam and Coastal & North Interior Karnataka.
- ❖ **Thunderstorm/Duststorm** accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Haryana-Chandigarh-Delhi, Uttar Pradesh and Gujarat Region.
- ❖ **Heat Wave to severe heat wave conditions** very likely to prevail in some parts of Bihar; **Heat wave conditions** in isolated pockets over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Chhattisgarh, Vidarbha, Odisha, Coastal Andhra Pradesh & Yanam and Jharkhand.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Madhya Pradesh, Bihar and Odisha.
- ❖ **Hot and humid weather** very likely to prevail over Konkan & Goa and Gangetic West Bengal.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph** gusting to 55 kmph very likely to prevail over Lakshadweep, Maldives area, Comorin area, along and off Kerala coast, southern parts of southwest Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph** gusting to 65 kmph likely to prevail along and off Somalia coast, Southwest and adjoining Westcentral Arabian sea off Yemen coast. Fishermen are advised not to venture into these areas.



**01 June (Day 2):**

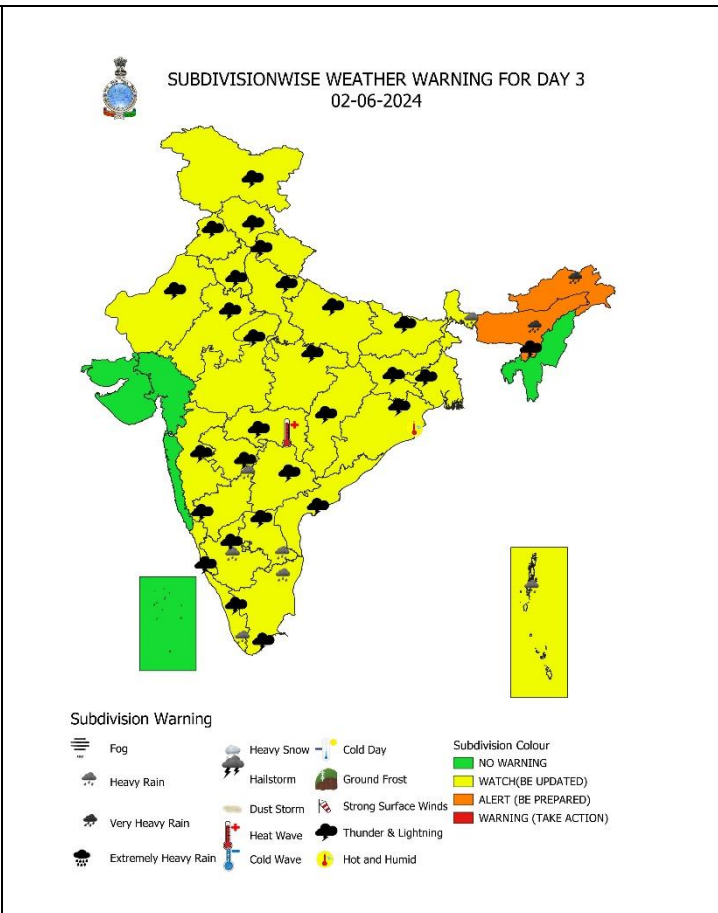
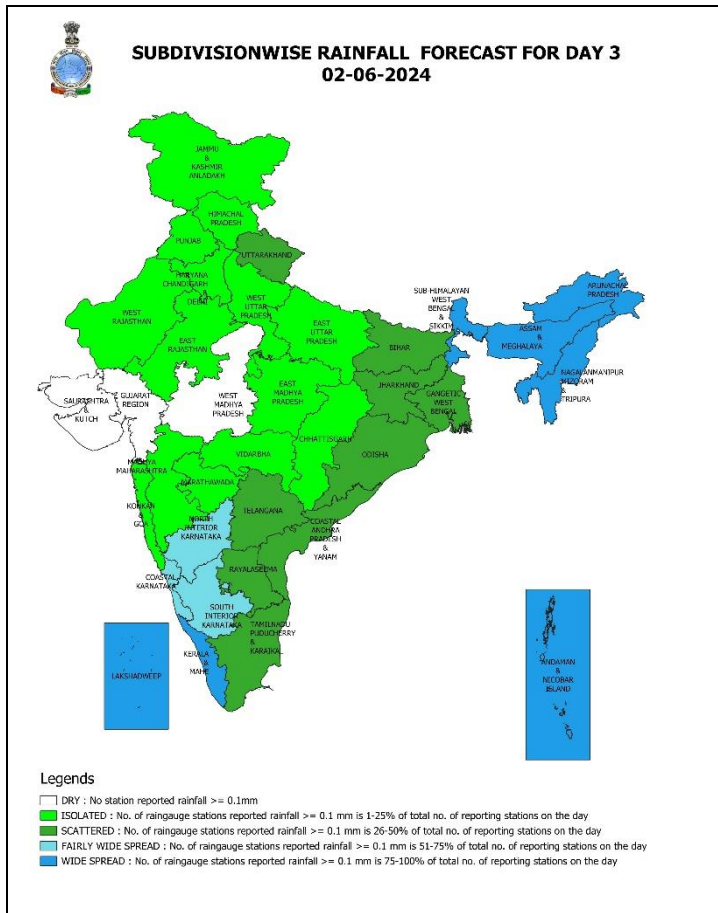
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya and Arunachal Pradesh; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 50-60 kmph)** very likely at isolated places over East Rajasthan; **with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, West Rajasthan, Vidarbha, Chhattisgarh, Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Bihar, Jharkhand, Kerala & Mahe and Telangana; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal Andhra Pradesh & Yanam, Rayalaseema and Coastal & South Interior Karnataka .
- ❖ **Thunderstorm/Duststorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Uttar Pradesh.
- ❖ **Heat wave conditions** very likely to prevail in isolated pockets over Punjab, Haryana-Chandigarh, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam and Bihar.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Bihar and Odisha.
- ❖ **Hot and humid weather** very likely to prevail over Konkan & Goa.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** very likely to prevail over Lakshadweep, Maldives area, Comorin area, along and off Kerala coast, southern parts of southwest Bay of Bengal; 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 off Yemen coast. Fishermen are advised not to venture into these areas.

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Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

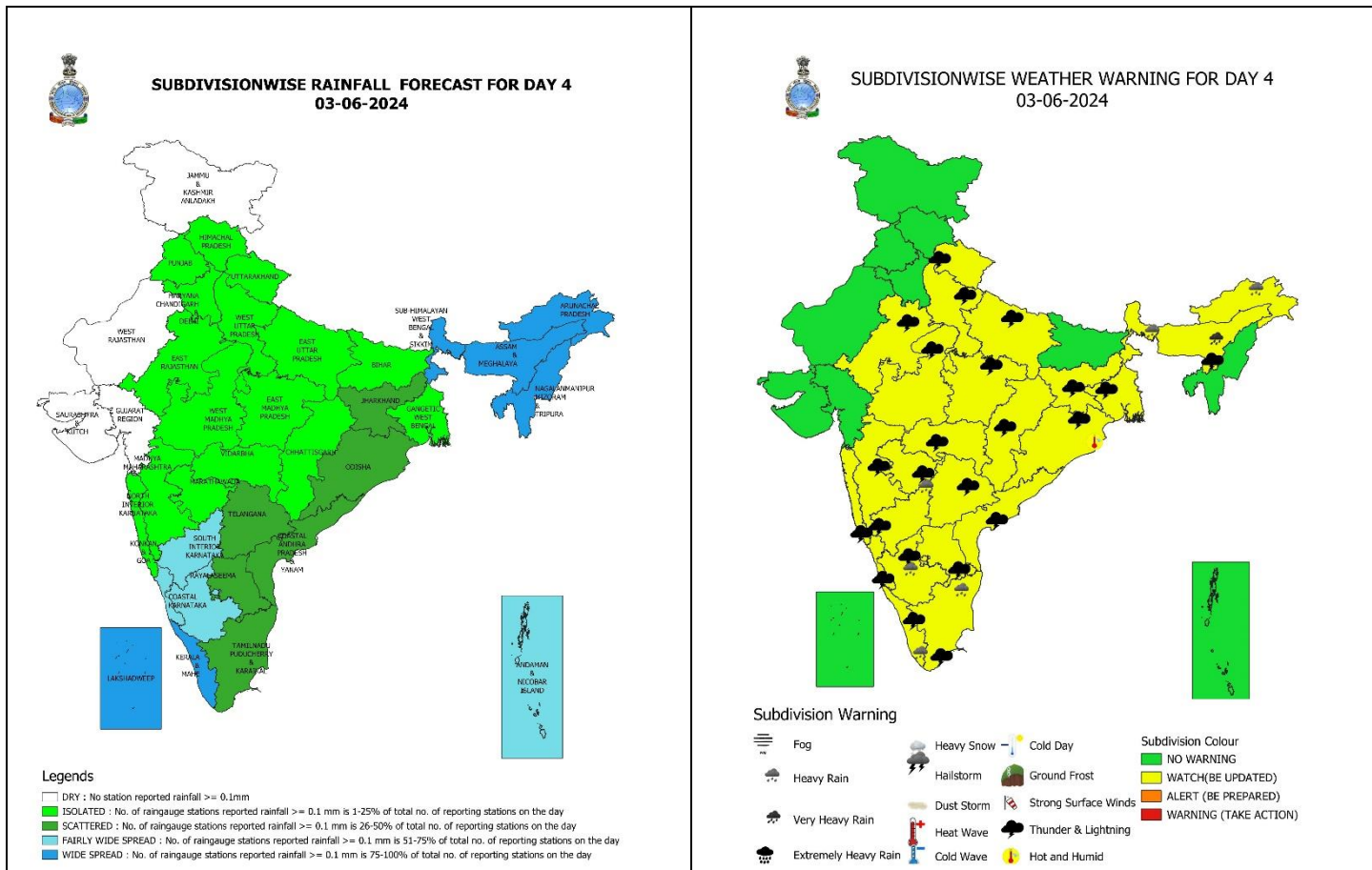
For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

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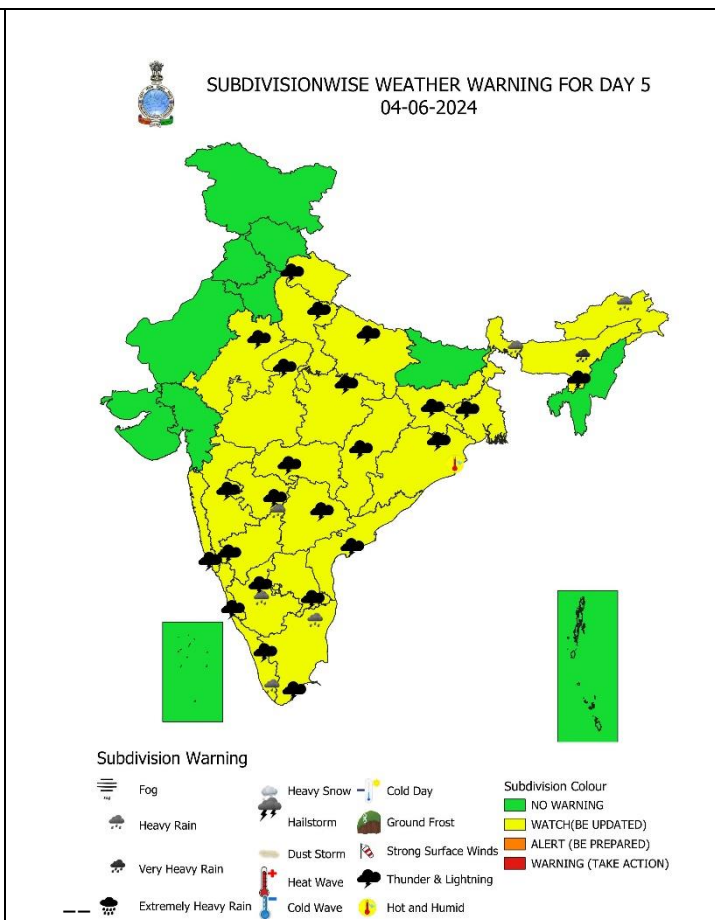
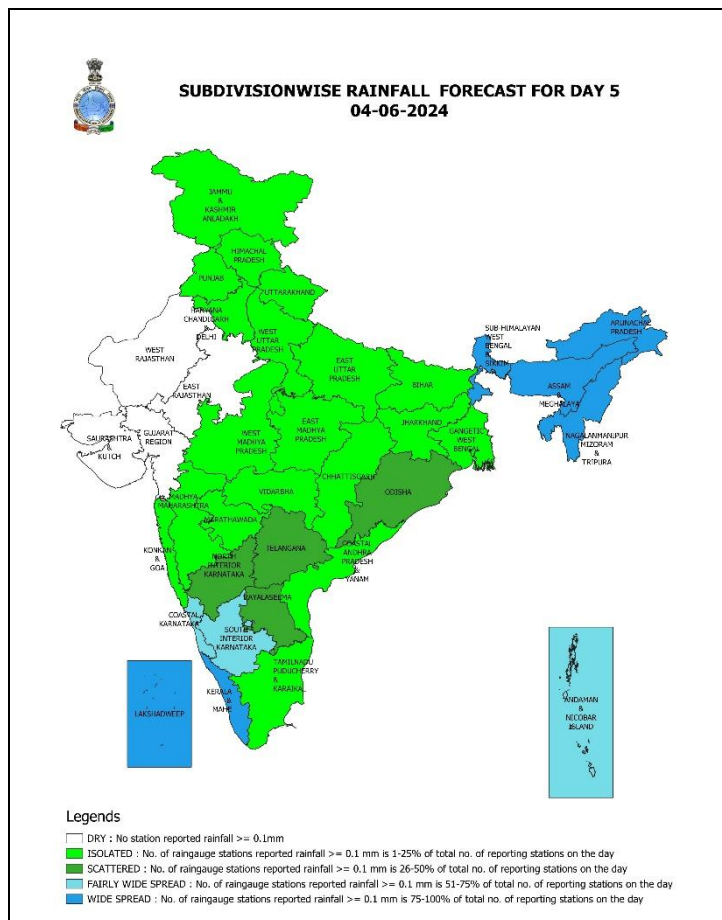
**02 June (Day 3):**

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya and Arunachal Pradesh; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 50-60 kmph)** likely at isolated places over East Rajasthan; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Uttarakhand, Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, Haryana-Chandigarh-Delhi, West Madhya Pradesh, Bihar, Jharkhand, Telangana, Kerala & Mahe; **with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Assam & Meghalaya, Odisha, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, 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.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over Punjab and Haryana-Chandigarh-Delhi.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over south Bay of Bengal; 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 westcentral Arabian sea, off Yemen coast. Fishermen are advised not to venture into these areas.



**03 June (Day 4):**

- ❖ **Heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Jharkhand, Kerala & Mahe and Telangana; **with lightning** at isolated places over Uttarakhand, Odisha, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, 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.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over South Bay of Bengal, Eastcentral Bay of Bengal along & off north Coastal Andhra Pradesh & Yanam coast; adjoining Westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, southwest and westcentral Arabian sea, off Yemen coast. Fishermen are advised not to venture into these areas.

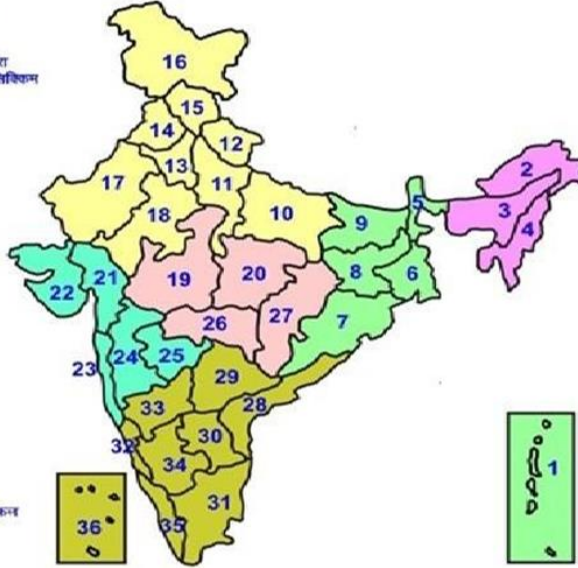


**04 June (Day 5):**

- ❖ **Heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Jharkhand, Kerala & Mahe and Telangana; **with lightning** at isolated places over Uttarakhand, Odisha, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, 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.
- ❖ **Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over South Bay of Bengal, Eastcentral Bay of Bengal along & off north Coastal Andhra Pradesh & Yanam coast; adjoining Westcentral Bay of Bengal. **Squally wind with wind speed 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Somalia coast, southwest and westcentral Arabian sea, off Yemen coast. 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 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 तेलंगाना
- 29 तेलंगाना
- 30 तेलंगाना
- 31 तेलंगाना
- 32 तेलंगाना
- 33 तेलंगाना
- 34 तेलंगाना
- 35 तेलंगाना
- 36 तेलंगाना



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)
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### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
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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)

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