



Sunday, June 04, 2023  
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 Southwest Monsoon continues to pass through 10°N/65°E, 9°N/70°E, Minicoy, 7°N/81°E, 11°N/87°E, 14°N/90°E, 17°N/93°E & 19°N/95°E.

#### **Significant Meteorological features:**

- ❖ The Western Disturbance as a trough in mid-tropospheric westerlies runs roughly along Long. 77°E and to the north of Lat. 32° and another Western Disturbance as a cyclonic circulation lies over Iran & neighbourhood.
- ❖ A cyclonic circulation likely to develop over southeast Arabian Sea around 05<sup>th</sup> June. Under its influence a Low Pressure Area is likely to form over the same region during subsequent 24 hours.
- ❖ The cyclonic circulation over Eastcentral Bay of Bengal off Myanmar coast persists in mid-tropospheric levels.

#### **Forecast and warning over the country during next 5 days:**

- Thunderstorms accompanied by gusty winds likely over Rajasthan during next 2 days.
- Light/moderate scattered to fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Kerala, Lakshadweep, South Interior Karnataka and isolated activity over Tamil Nadu and Andhra Pradesh during next 5 days.
- **Heavy rainfall** very likely at isolated places over Kerala on 05<sup>th</sup> June and over Andaman & Nicobar Islands during 04<sup>th</sup>-06<sup>th</sup> June.

#### **Maximum Temperatures and Heat Wave warning:**

- Yesterday, **Maximum Temperatures** recorded in the range of **40-43°C** over many parts of Vidarbha, Marathwada, Telangana, South Coastal Andhra Pradesh, Rayalaseema, Chhattisgarh, North Interior Odisha, Bihar, West Bengal, and over some parts of Madhya Pradesh, Jharkhand, North Coastal Tamil Nadu, Saurashtra & Kutch, Southwest & East Uttar Pradesh and below 40°C over rest parts of the country.
- **Maximum Temperatures** are **above normal by 4-7°C** over some/many parts of east Bihar, Sub-West Bengal & Sikkim and Assam & Meghalaya and at isolated pockets over Gangetic West Bengal, East Telangana, South Coastal Andhra Pradesh, Tamil Nadu and South Coastal Karnataka; **above normal by 2-4°C** over Many parts of Peninsular India, North Interior Odisha, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura and near normal or below normal over rest parts of the country.
- Rise in maximum temperatures by 4-6°C very likely over plains of Northwest India during next 5 days and by 2-3°C over Central India during next 24 hours.
- **Heat wave conditions** very likely to continue in isolated pockets over Bihar and West Bengal & Sikkim during 04<sup>th</sup>-07<sup>th</sup> June; likely to prevail over Vidarbha, Coastal Andhra Pradesh on 04<sup>th</sup> June and southeast Uttar Pradesh 06<sup>th</sup> & 07<sup>th</sup> June.
- Due to humid air & high temperature, **Hot and Discomfort weather** is very likely over central Chhattisgarh and Maharashtra on 04<sup>th</sup> June.

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## Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Marathwada, North Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Odisha, Gangetic West Bengal, Andaman & Nicobar Islands and Arunachal Pradesh.
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST to 1730 hours IST of yesterday): **Odisha:** Keonjhar-4 and Gopalpur-1; **Andaman & Nicobar Islands:** Hut Bay-2.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over East Rajasthan, Assam & Meghalaya, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Madhya Pradesh, Gujarat Region, Vidarbha, Odisha, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka.
- ❖ **Hailstorm observed** (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Madhya Pradesh and Odisha.
- ❖ Yesterday, **Heat Wave to Severe Heat Wave conditions** prevailed in some pockets over East Bihar and **Heat Wave conditions** in some pockets over Sub-Himalayan West Bengal & Sikkim and in isolated pockets over Gangetic West Bengal. This is 4<sup>th</sup> day of continuous **Heat Wave conditions** observed over the above regions.
- ❖ **Minimum Temperature Departures (as on 03-06-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Rayalaseema and Jharkhand; at a few places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Odisha, Bihar, Gangetic West Bengal and at isolated places over Gujarat state, Sub-Himalayan West Bengal & Sikkim. They were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Haryana, Chandigarh & Delhi, Uttarakhand, West Rajasthan, East Madhya Pradesh and Telangana and at isolated places over Himachal Pradesh, West Madhya Pradesh, West Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Punjab and West Rajasthan and at isolated places over East Uttar Pradesh and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 16.5°C was reported at **Una (Himachal Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 03-06-2023):** Maximum temperatures were **markedly above normal (5.1°C or more)** at a few places over Bihar, Lakshadweep; **appreciably above normal (3.1°C to 5.1°C)** at most places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; at many places over Gangetic West Bengal; at a few places over Telangana, at isolated places over Chhattisgarh, Coastal Andhra Pradesh & Yanam, Karnataka, Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at many places over Odisha, Madhya Maharashtra, Konkan & Goa; at a few places over Jharkhand; at isolated places over East Uttar Pradesh, Vidarbha, Andaman & Nicobar Islands and Saurashtra & Kutch. They were **appreciably below normal (-3.1°C to -5.1°C)** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi; at many places over West Rajasthan; at a few places over Himachal Pradesh, East Rajasthan; at isolated places over West Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at most places over Uttarakhand; at a few places over Madhya Pradesh; at isolated places over Gujarat Region **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 45.0°C was reported at **Bapatla (Coastal Andhra Pradesh & Yanam)**.

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### Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Southwest Monsoon continues to pass through 10°N/65°E, 9°N/70°E, Minicoy, 7°N/81°E, 11°N/87°E, 14°N/90°E, 17°N/93°E & 19°N/95°E.
- ❖ The Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 77°E and to the north of Lat. 32°N.
- ❖ The Western Disturbance as a cyclonic circulation in mid-tropospheric westerlies over Iran & neighbourhood persists and is likely to affect Western Himalayan Region from night of 05<sup>th</sup> June.
- ❖ The cyclonic circulation over Southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over south Chhattisgarh & adjoining Telangana at 0.9 km above mean sea level persists.
- ❖ The north-south trough from north Bihar to the cyclonic circulation over south Chhattisgarh across Jharkhand at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over eastcentral Bay of Bengal off Myanmar coast between 3.1 & 7.6 km above mean sea level persists.
- ❖ A cyclonic circulation is likely to develop over Southeast Arabian Sea around 5<sup>th</sup> June. Under its influence a Low Pressure Area is likely to form over the same region during subsequent 48 hours.

### Weather Forecast for next 5 days (Upto 0830 hours IST of 09<sup>th</sup> June, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ Maximum Temperatures Forecast:
  - **Northwest India:** Rise in maximum temperature by 4-6°C very likely during next 5 days. (Except Rajasthan).
  - **Central India:** Rise in maximum temperature by 2-3°C very likely during next 24 hours and no significant change thereafter.
  - No significant change in maximum temperature very likely over rest parts of the country during next 5 days.

### Weather Outlook for subsequent 2 days (During 09<sup>th</sup> -11<sup>th</sup> June, 2023)

- ❖ Scattered to Fairly widespread light/moderate rainfall with thunderstorm likely to continue over northeast India, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Coastal & South Interior Karnataka and Islands.
- ❖ Isolated rainfall activity Western Himalayan Region & adjoining plains of Northwest India.
- ❖ Dry weather over rest parts of the country.

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## Weather Warning during next 5 days

**04 June (Day 1): ♦ Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands.

♦ **Hailstorm with lightning** very likely at isolated places over Madhya Maharashtra.

♦ **Thunderstorm with lightning & squall (speed 50-60 kmph)** very likely at isolated places over West Rajasthan; **with lightning & gusty winds (speed 40-50 kmph)** at isolated places over Odisha; **with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Rajasthan, Chhattisgarh, Andaman & Nicobar Islands, Kerala & Mahe; **with lightning** at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Vidarbha, Gangetic West Bengal, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Marathwada, Gujarat State, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Heat Wave conditions** very likely in isolated pockets over Bihar, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Vidarbha.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** very likely over southeast & adjoining southwest Arabian Sea, Lakshadweep-Maldives areas, Andaman Sea and south Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast Arabian Sea, along & off north Gujarat coast, Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

**05 June (Day 2): ♦ Heavy rainfall** very likely at isolated places over Kerala and Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Odisha; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Rajasthan, Andaman & Nicobar Islands, Rayalaseema and Kerala & Mahe **with lightning** at isolated places over Chhattisgarh, Assam & Meghalaya, Marathwada, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Heat Wave conditions** likely in isolated pockets over Bihar and West Bengal & Sikkim.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, Lakshadweep-Maldives areas, north Andaman Sea and south Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast Arabian Sea, along & off north Gujarat coast, Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

**06 June (Day 3): ♦ Heavy rainfall** very likely at isolated places over Kerala and Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Odisha; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Rajasthan, Andaman & Nicobar Islands, Rayalaseema and Kerala & Mahe **with lightning** at isolated places over Chhattisgarh, Assam & Meghalaya, Marathwada, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Heat Wave conditions** likely in isolated pockets over Bihar and West Bengal & Sikkim.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, Lakshadweep-Maldives areas, north Andaman Sea and south Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast Arabian Sea, along & off north Gujarat coast, Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

**07 June (Day 4): ♦ Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Andhra Pradesh & Yanam and South Interior Karnataka.

♦ **Heat Wave conditions** likely in isolated pockets over southeast Uttar Pradesh, Bihar and West Bengal & Sikkim.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, Lakshadweep areas, north Andaman Sea and south Bay of Bengal, Eastcentral Bay of Bengal & adjoining Westcentral & Northeast Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast Arabian Sea, along & off north Gujarat coast, Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

**08 June (Day 5): ♦ Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Andhra Pradesh & Yanam and South Interior Karnataka.

♦ **Heat Wave conditions** likely in isolated pockets over southeast Uttar Pradesh, Bihar and West Bengal & Sikkim.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, Lakshadweep areas, north Andaman Sea and south Bay of Bengal, Eastcentral Bay of Bengal & adjoining Westcentral & Northeast Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast Arabian Sea, along & off north Gujarat coast, Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

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Table-1

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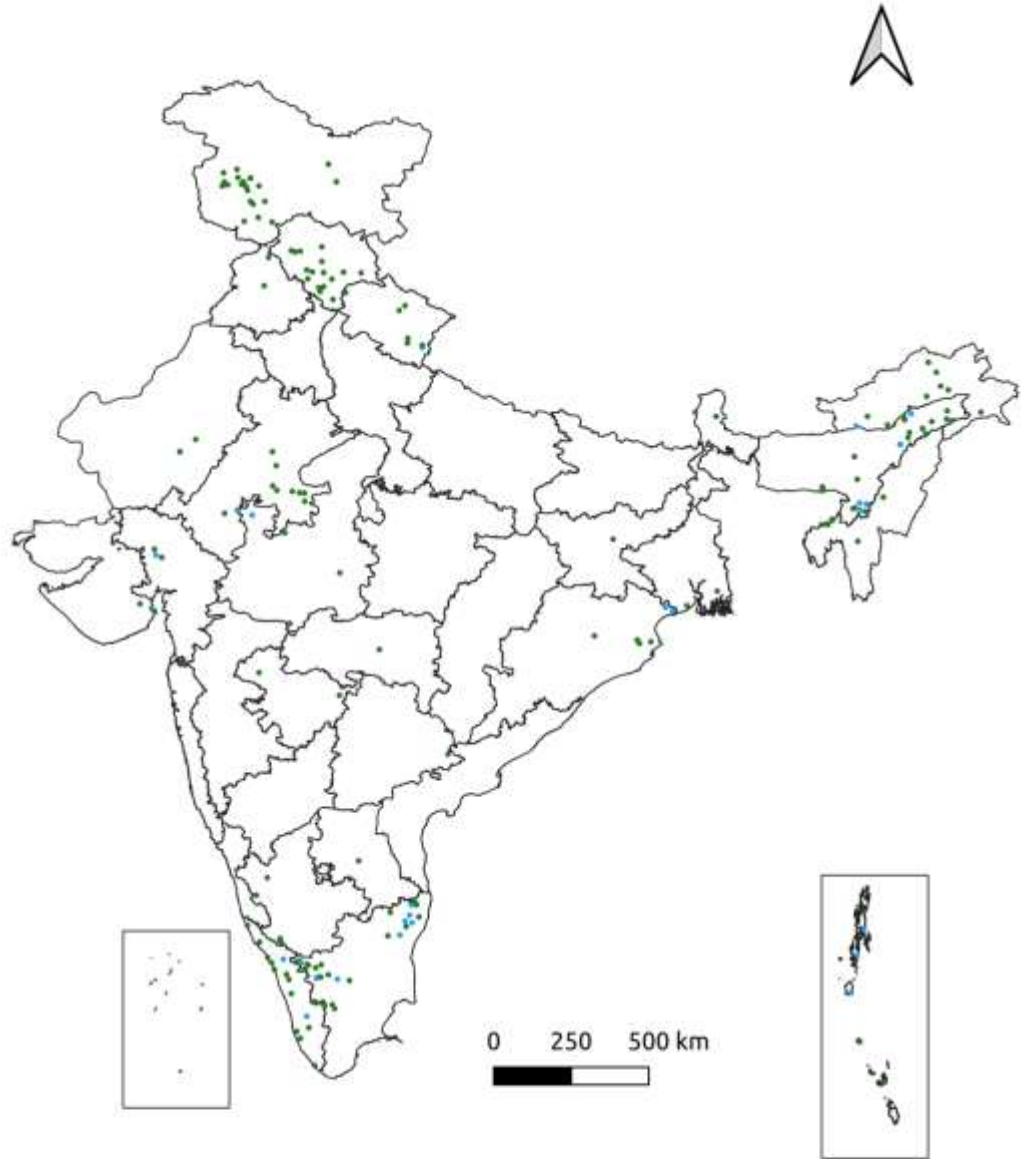




Fig. 1: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations  
during 0830 IST of 2-6-2023 to 0830 IST of 3-6-2023



## 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)

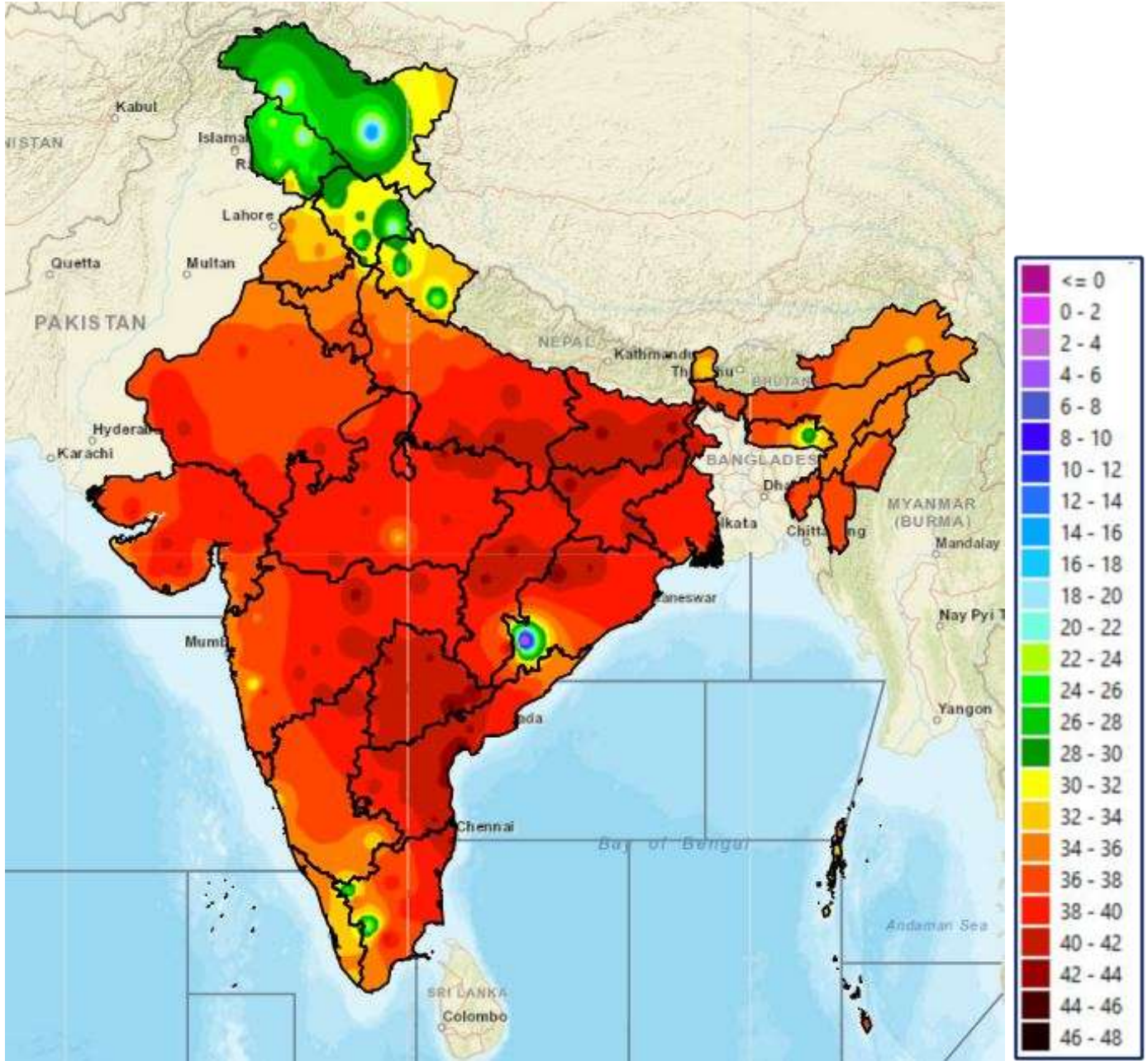
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Fig. 2: Maximum Temperatures Dated 03.06.2023



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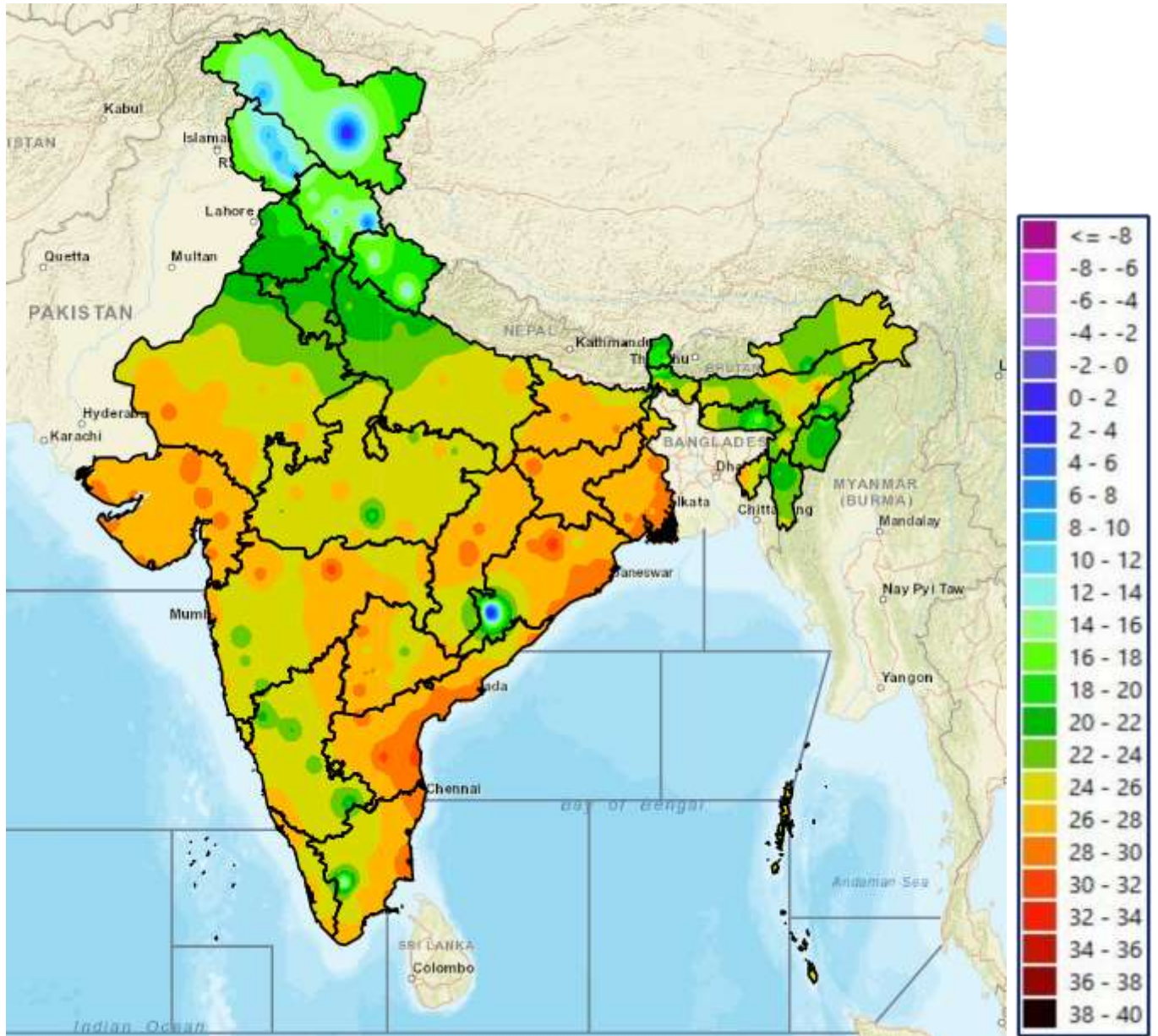
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Fig. 3: Minimum Temperatures Dated 03.06.2023



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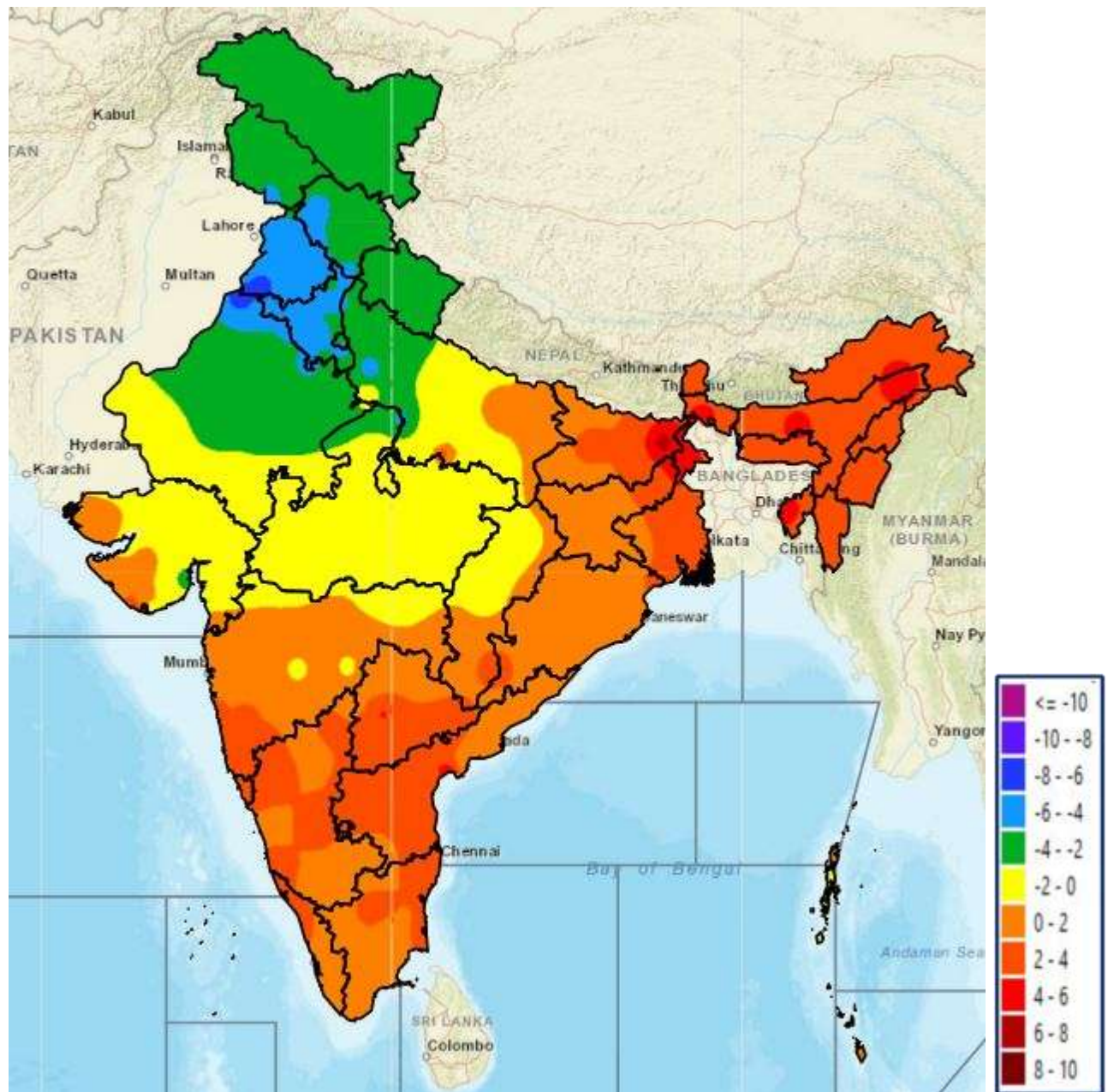
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Fig. 4: Departure from Normal of Maximum Temperatures Dated 03.06.2023

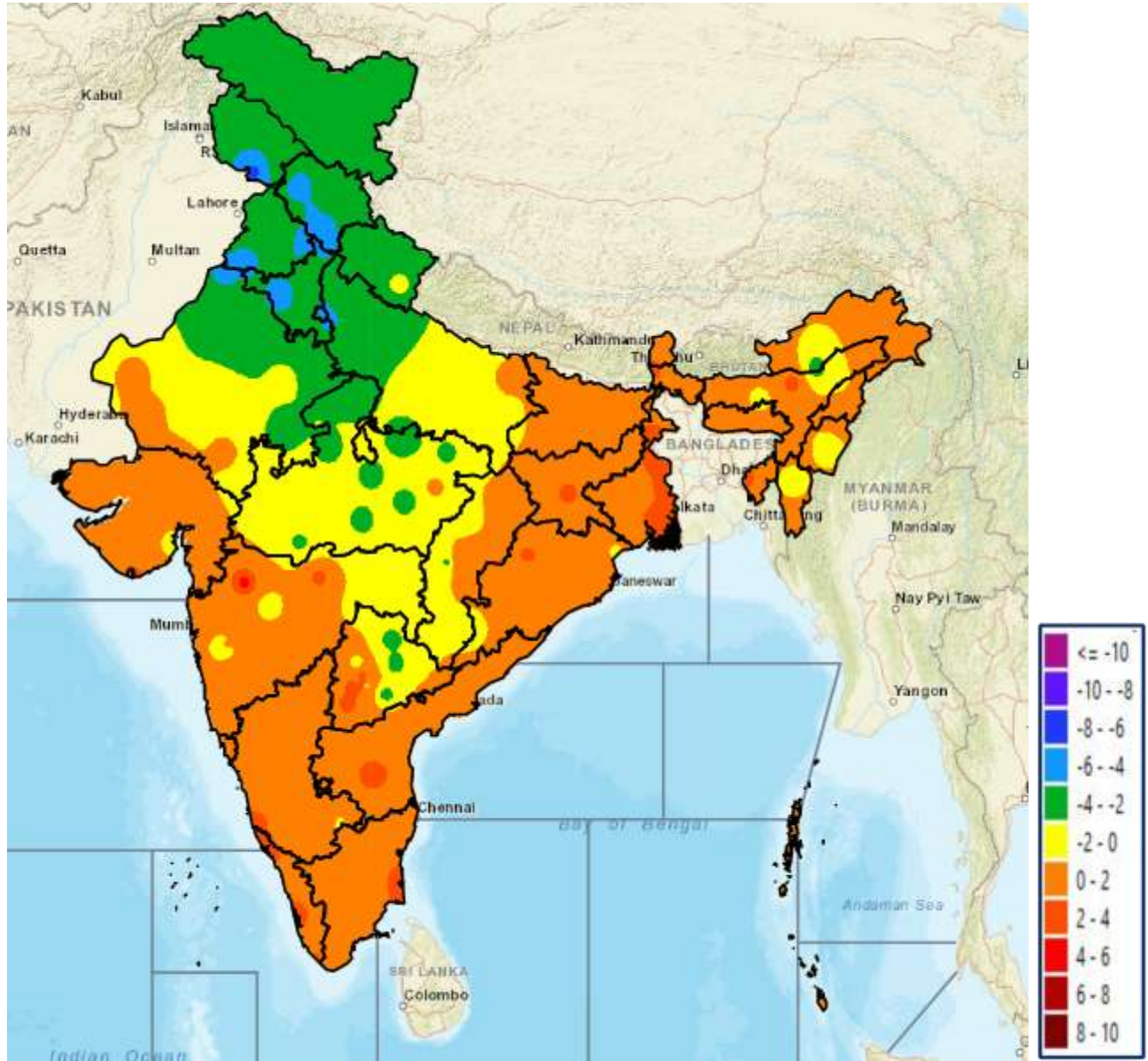


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Fig. 5: Departure from Normal of Minimum Temperatures Dated 03.06.2023



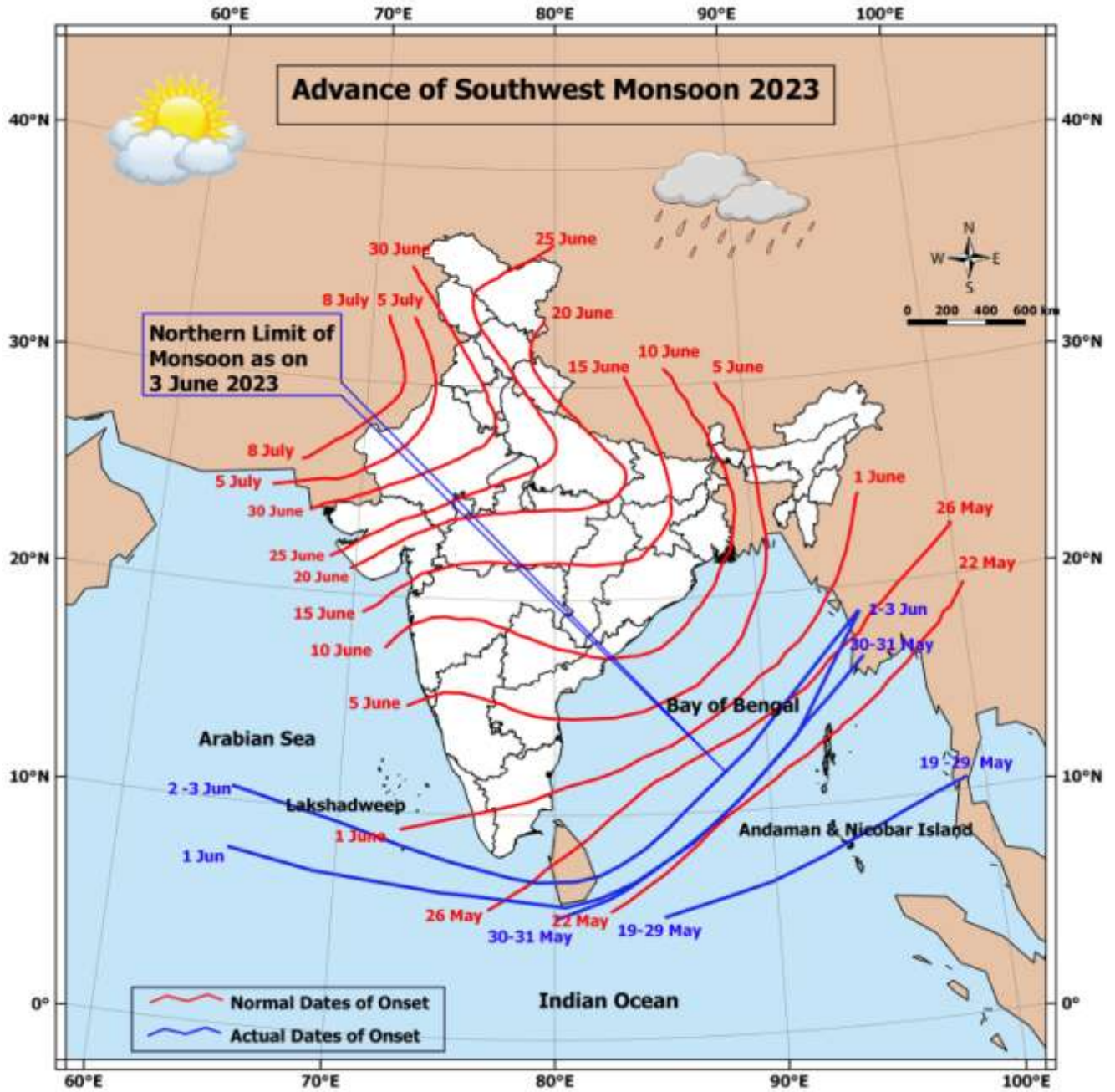
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Fig. 6: Advance of Southwest Monsoon



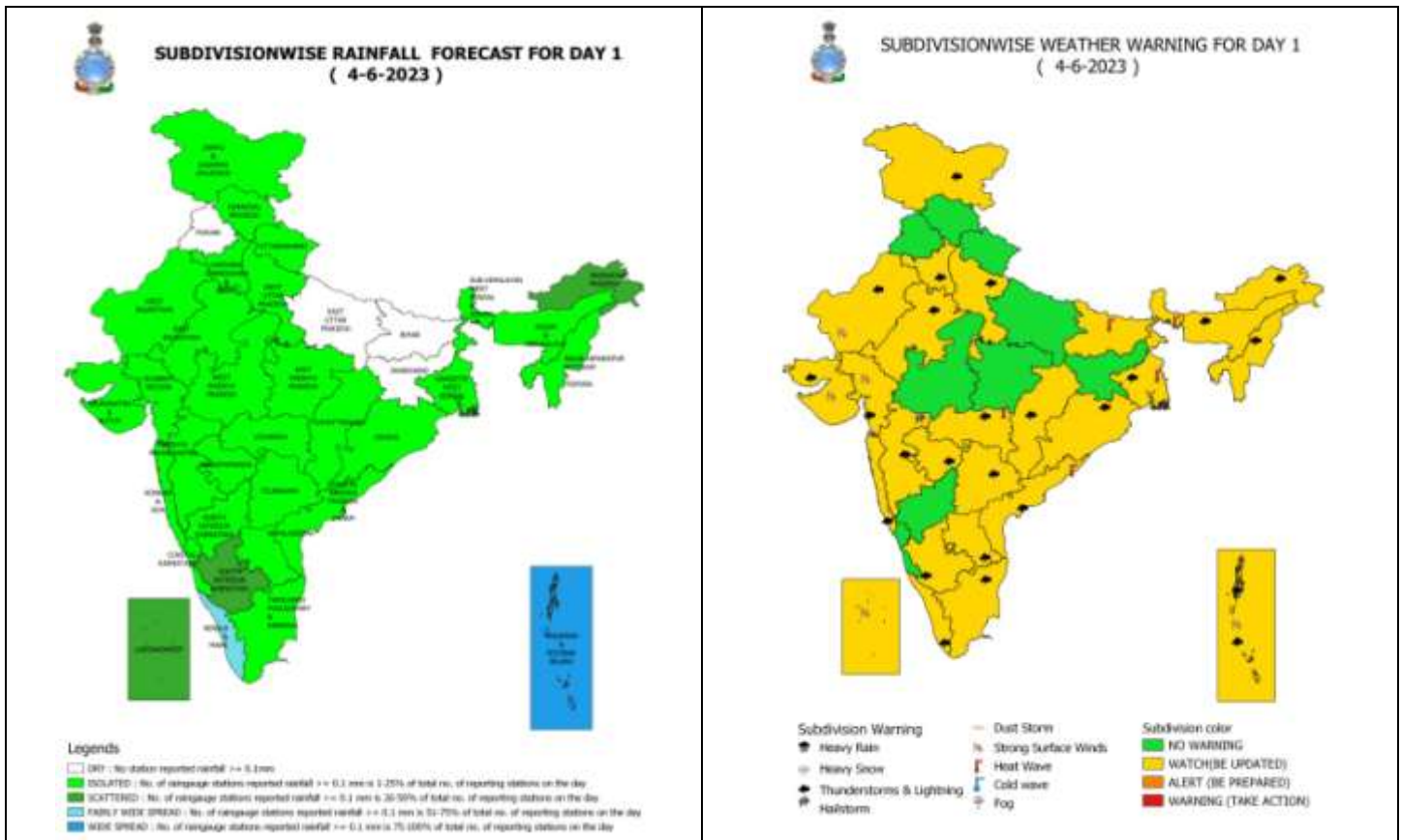
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**04 June (Day 1): 04 June (Day 1): ♦ Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands.

♦ **Hailstorm with lightning** very likely at isolated places over Madhya Maharashtra.

♦ **Thunderstorm with lightning & squall (speed 50-60 kmph)** very likely at isolated places over West Rajasthan; **with lightning & gusty winds (speed 40-50 kmph)** at isolated places over Odisha; **with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Rajasthan, Chhattisgarh, Andaman & Nicobar Islands, Kerala & Mahe; **with lightning** at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Vidarbha, Gangetic West Bengal, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Marathwada, Gujarat State, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Heat Wave conditions** very likely in isolated pockets over Bihar, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Vidarbha.

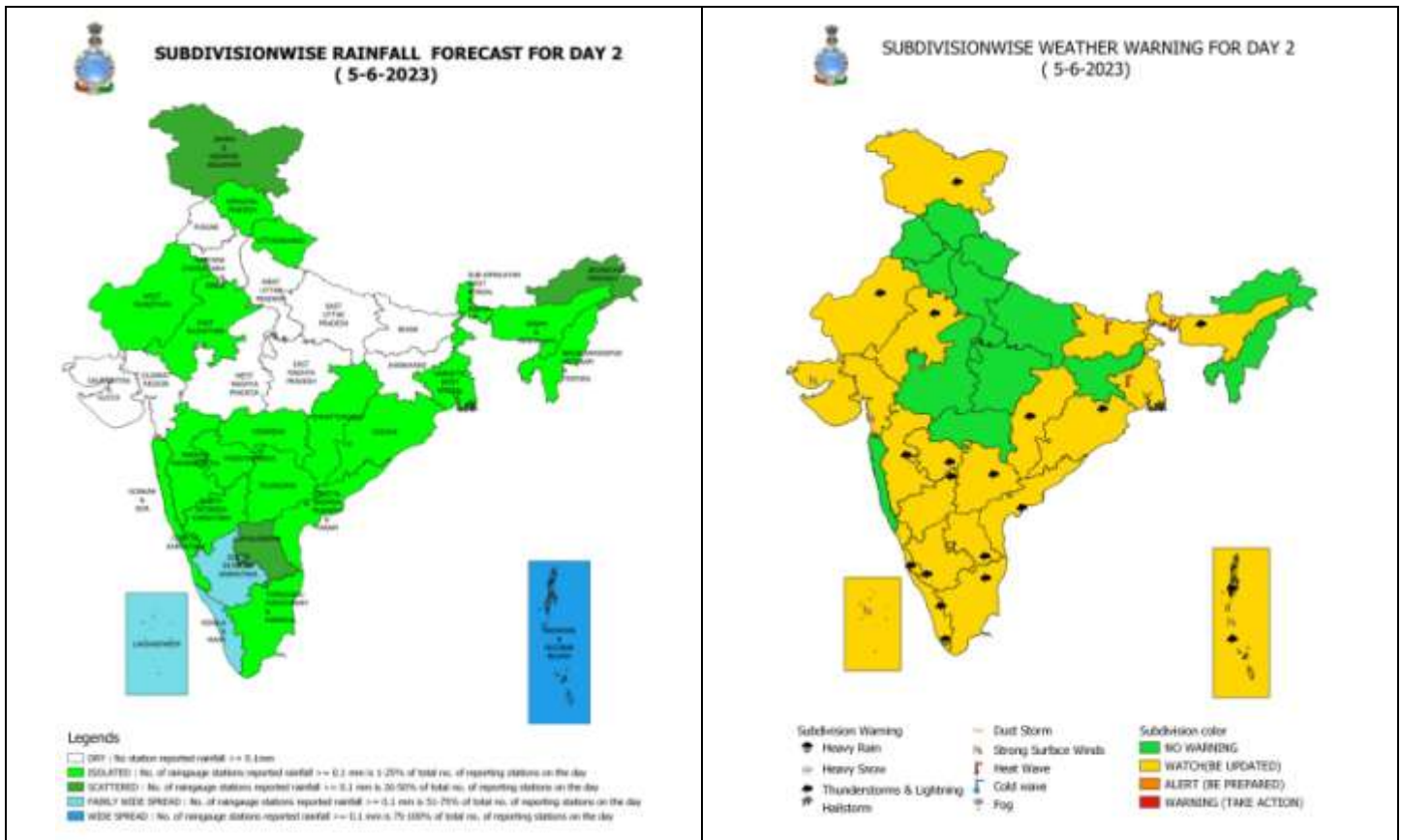
♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** very likely over southeast & adjoining southwest Arabian Sea, Lakshadweep-Maldives areas, Andaman Sea and south Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast Arabian Sea, along & off north Gujarat coast, Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

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**05 June (Day 2): ♦ Heavy rainfall** very likely at isolated places over Kerala and Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Odisha; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Rajasthan, Andaman & Nicobar Islands, Rayalaseema and Kerala & Mahe **with lightning** at isolated places over Chhattisgarh, Assam & Meghalaya, Marathwada, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Tamil Nadu, Puducherry & Karaikal.

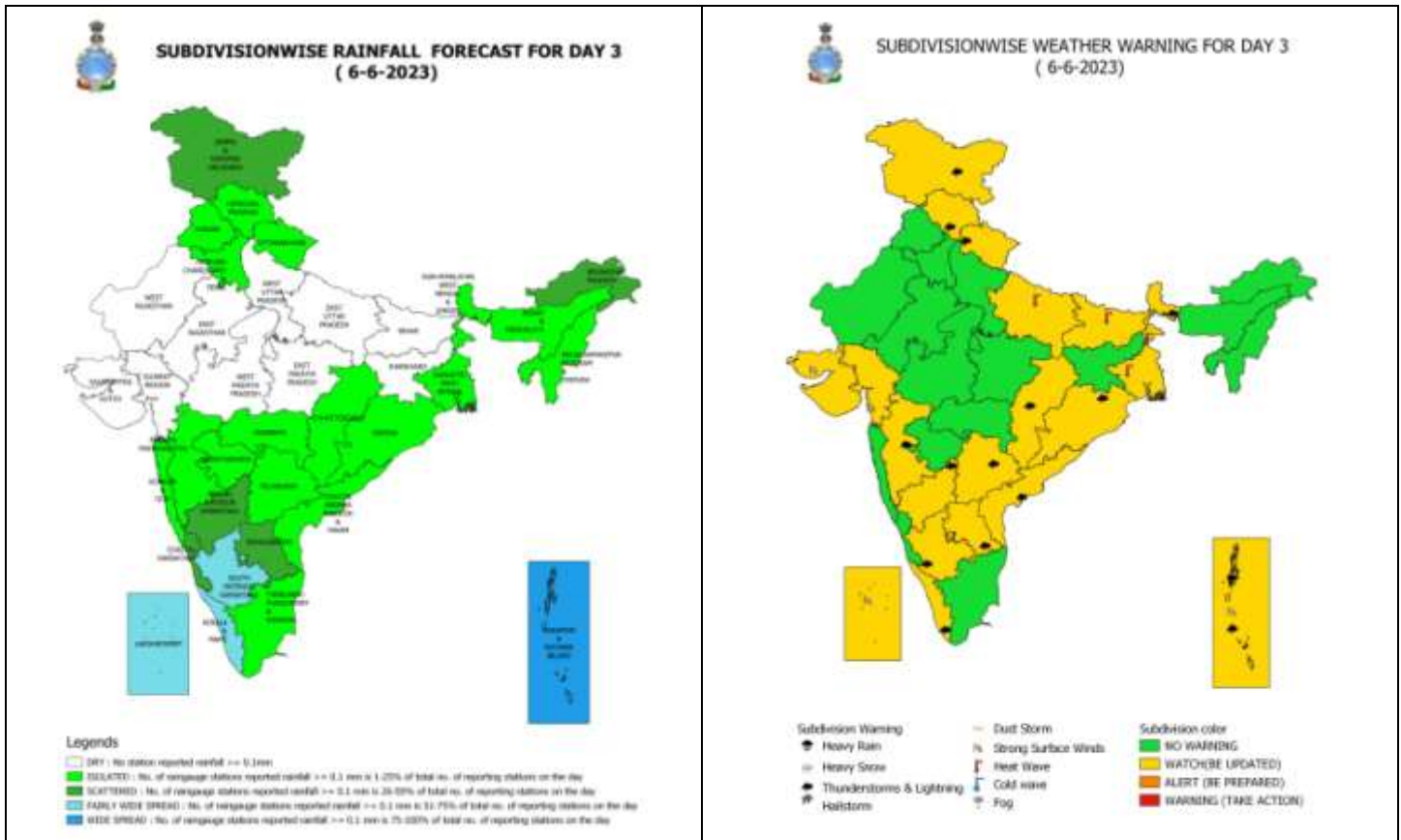
♦ **Heat Wave conditions** likely in isolated pockets over Bihar and West Bengal & Sikkim.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, Lakshadweep-Maldives areas, north Andaman Sea and south Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast Arabian Sea, along & off north Gujarat coast, Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

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**06 June (Day 3): ♦ Heavy rainfall** very likely at isolated places over Kerala and Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Odisha; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Rajasthan, Andaman & Nicobar Islands, Rayalaseema and Kerala & Mahe **with lightning** at isolated places over Chhattisgarh, Assam & Meghalaya, Marathwada, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Heat Wave conditions** likely in isolated pockets over Bihar and West Bengal & Sikkim.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, Lakshadweep-Maldives areas, north Andaman Sea and south Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast Arabian Sea, along & off north Gujarat coast, Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

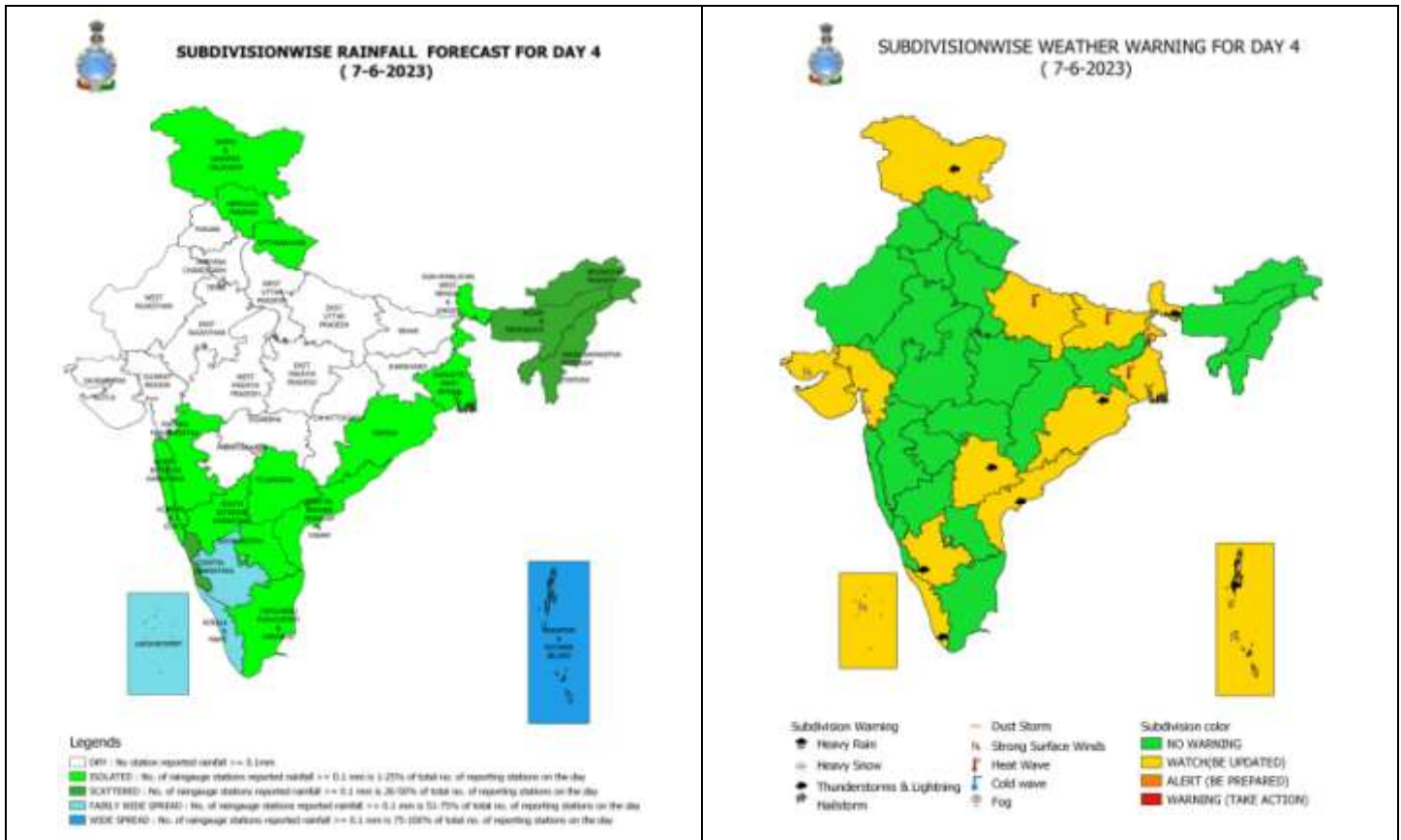
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**07 June (Day 4): ♦ Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Andhra Pradesh & Yanam and South Interior Karnataka.

♦ **Heat Wave conditions** likely in isolated pockets over southeast Uttar Pradesh, Bihar and West Bengal & Sikkim.

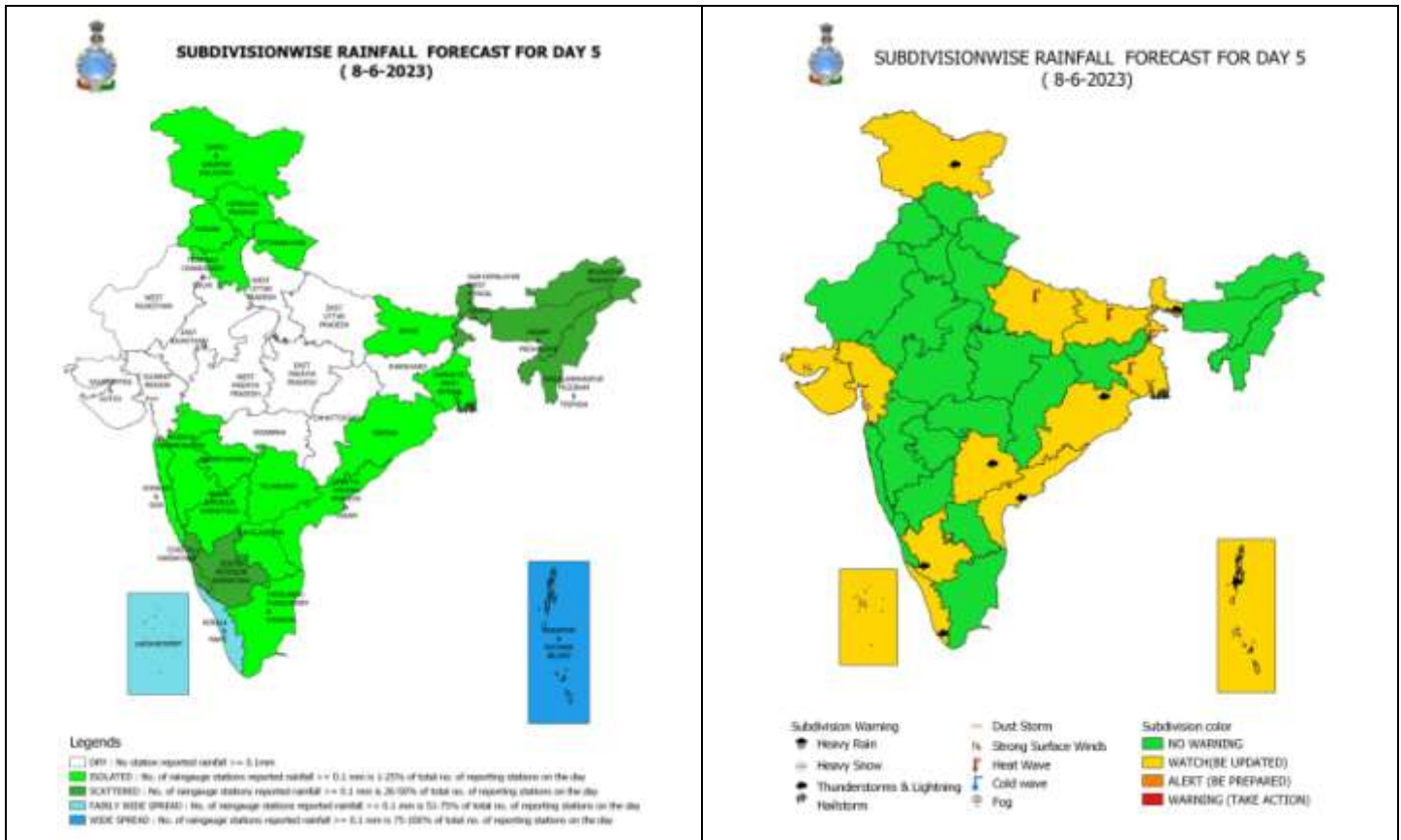
♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, Lakshadweep areas, north Andaman Sea and south Bay of Bengal, Eastcentral Bay of Bengal & adjoining Westcentral & Northeast Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast Arabian Sea, along & off north Gujarat coast, Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

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**08 June (Day 5): ♦ Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Andhra Pradesh & Yanam and South Interior Karnataka.

♦ **Heat Wave conditions** likely in isolated pockets over southeast Uttar Pradesh, Bihar and West Bengal & Sikkim.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, Lakshadweep areas, north Andaman Sea and south Bay of Bengal, Eastcentral Bay of Bengal & adjoining Westcentral & Northeast Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast Arabian Sea, along & off north Gujarat coast, Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

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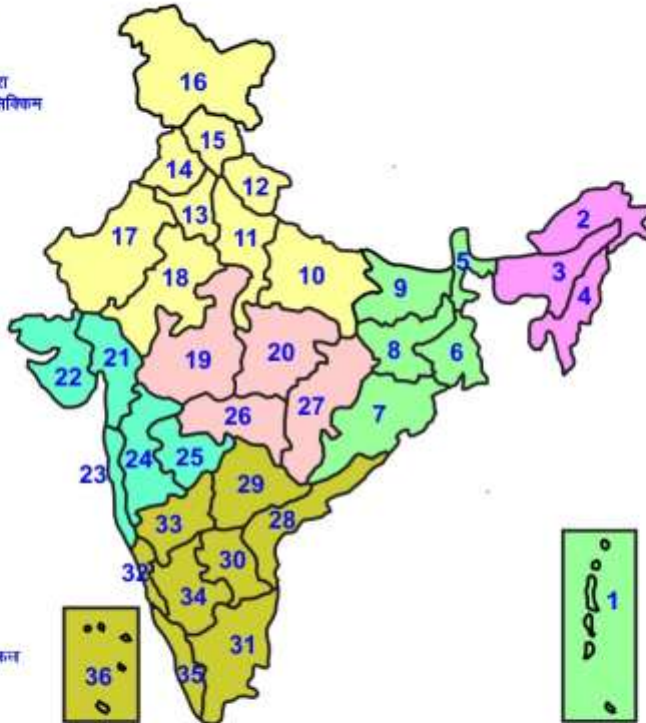
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## LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीज़ोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय 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 क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक 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. Orissa
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. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, 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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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