



Monday, June 05, 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 middle tropospheric westerlies runs roughly along Long. 77°E and to the north of Lat. 20° and another Western Disturbance as a cyclonic circulation lies over Iran & neighbourhood.
- ❖ A cyclonic circulation lies over northwest Rajasthan & neighbourhood in lower tropospheric levels.
- ❖ 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 middle tropospheric levels.

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

- Light/moderate scattered to fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Kerala, Lakshadweep, South Interior Karnataka and isolated to scattered activity over Tamil Nadu and Andhra Pradesh during next 5 days.
- Light/moderate isolated to scattered rainfall with thunderstorm/lightning/gusty winds very likely over Western Himalayan Region during next 5 days and over plains of northwest India on 05<sup>th</sup> June.
- **Heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala and Andaman & Nicobar Islands on 05<sup>th</sup> June.

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

- Yesterday, **Maximum Temperatures** recorded in the range of 40-42°C over many parts of central, east & north Peninsular India; in isolated pockets over Coastal Andhra Pradesh and Saurashtra.
- Yesterday, **Heat Wave conditions** prevailed in isolated pockets over East Bihar and Sub-Himalayan West Bengal & Sikkim. This is 5<sup>th</sup> day of Heat Wave conditions over the above areas.
- Rise in maximum temperatures by 3-5°C very likely over plains of Northwest India during next 5 days.
- **Heat wave to severe heat wave conditions** very likely to continue in some pockets over Bihar till 09<sup>th</sup> June.
- **Heat wave conditions** very likely to continue in isolated pockets over West Bengal & Sikkim and Northeast Jharkhand during 05<sup>th</sup>-09<sup>th</sup> June; over Coastal Andhra Pradesh & Yanam on 05<sup>th</sup> June; over Telangana during 05<sup>th</sup> to 6<sup>th</sup> June; over Vidarbha during 06<sup>th</sup> to 09<sup>th</sup> June and over East Uttar Pradesh 07<sup>th</sup> - 09<sup>th</sup> June.
- Maximum temperatures are likely to be above normal by 4-6°C over Northeast India during next 24 hours.



## Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at isolated places** over **Rainfall/thundershowers observed at many places** over Andaman & Nicobar Islands and Madhya Maharashtra; **at a few places** over Vidarbha and **at isolated places** over Assam & Meghalaya, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Gujarat State, Konkan & Goa, Marathawada, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday)(in cm): Long Island, Car Nicobar and Nazibabad – 3 each; Port Blair, Vallabh Vidyanagar and Sangli – 2each; Hamirpur, Umaria, Pendra Road, Amvaoti, Mathern, Mahabaleshwar, Pune, Udgir, Kalingapatnam and Baroda -1 each.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, East Madhya Pradesh, Gujarat Region, Vidarbha, Odisha, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and North Chhattisgarh.
- ❖ **Yesterday, hailstorm observed** (from 0830 hours IST to 1730 hours IST of today): at isolated places over Coastal Andhra Pradesh.
- ❖ Yesterday, **Heat Wave conditions** prevailed in isolated pockets over East Bihar and Sub-Himalayan West Bengal & Sikkim.
- ❖ **Minimum Temperature Departures (as on 04-06-2023):** Minimum temperatures were **appreciably above normal (3.1°C to 5.1°C )** at isolated places over Gangetic West Bengal, North Interior Karnataka; **above normal (1.6°C to 3.0°C)** at many places over Chhattisgarh, Bihar, Konkan & Goa, Coastal Karnataka; at a few places over Jharkhand, Andaman & Nicobar Islands, Arunachal Pradesh, Madhya Maharashtra, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal; at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Marathwada, Kerala & Mahe. They were **markedly below normal (-5.1°C or less)** at many places over West Rajasthan; at isolated places over East Rajasthan, West Madhya Pradesh, Gujarat Region, ;**appreciably below normal (-3.1°C to -5.1°C )** at a few places over Vidarbha; at isolated places over Uttarakhand; **below normal (-1.6°C to -3.0°C)** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh; at many places over East Uttar Pradesh, East Madhya Pradesh; at a few places over Punjab and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 17.1°C was reported at **Itanagar (Arunachal Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 04-06-2023):** Maximum temperatures were **markedly above normal (5.1°C or more)** at a few places over Bihar and Sub-Himalayan West Bengal & Sikkim; **appreciably above normal (3.1°C to 5.1°C )** at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Assam & Meghalaya Gangetic West Bengal & Coastal Karnataka; at a few places over Arunachal Pradesh and at isolated places over Konkan & Goa; **above normal (1.6°C to 3.0°C)** at many places over North Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; at a few places over Odisha and at isolated places over Telangana and Saurashtra & Kutch. They were **markedly below normal (-5.1°C or less)** at many places over Haryana, Chandigarh & Delhi and Rajasthan; at a few place over Rayalaseema; **appreciably below normal (-3.1°C to -5.1°C )** at a few places over West Madhya Pradesh and at isolated places over East Madhya Pradesh and Madhya Maharashtra; **below normal (-1.6°C to -3.0°C)** at most places over Punjab, West Uttar Pradesh and Marathawada and at isolated places over Coastal Andhra Pradesh & Yanam and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 44.0°C was reported at **Sambalpur (Odisha)**.



## 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. 20°N.
- ❖ The other Western Disturbance as a cyclonic circulation in mid-tropospheric westerlies over Iran & neighbourhood persists.
- ❖ The cyclonic circulation over northwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over south Chhattisgarh & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The trough from above cyclonic circulation over south Chhattisgarh & neighbourhood to interior Tamil Nadu across Telangana, Rayalaseema and South Interior Karnataka at 0.9 km above mean sea level persists.
- ❖ The north-south trough from northeast Bihar to north Chhattisgarh across Jharkhand at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over eastcentral Bay of Bengal off Myanmar coast extending upto 5.8 km above mean sea level persists.
- ❖ A cyclonic circulation is 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.

## Weather Forecast for next 5 days (Upto 0830 hours IST of 10<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 3-5°C very likely during next 5 days.
  - 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 10<sup>th</sup> -12<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.
- ❖ Dry weather over rest parts of the country.



## Weather Warning during next 5 days

**05 June (Day 1):** ♦ **Heavy rainfall** very likely at isolated places over Kerala, Tamil Nadu 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 Rajasthan, Madhya Pradesh, Chhattisgarh, Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat region, Rayalaseema, Lakshadweep and Kerala & Mahe **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Heat Wave to severe heat wave conditions** very likely in some places over Bihar and **heat wave conditions** in isolated pockets over northeast Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, Lakshadweep-Maldives areas, north Andaman Sea, south and Eastcentral 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 2):** ♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Chhattisgarh, Andaman & Nicobar Islands, Kerala & Mahe, Rayalaseema, Lakshadweep; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Heat Wave to severe heat wave conditions** very likely in some places over Bihar and **heat wave conditions** in isolated pockets over northeast Jharkhand, West Bengal & Sikkim, Telangana and Vidarbha.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, central parts of Arabian Sea, Lakshadweep-Maldives areas, Andaman Sea, south and Eastcentral 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 3):** ♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema; & **gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Odisha, Telangana, Coastal and South Interior Karnataka.

♦ **Heat Wave to severe heat wave conditions** likely in some places over Bihar and **heat wave conditions** in isolated pockets over southeast Uttar Pradesh, northeast Jharkhand, West Bengal & Sikkim and Vidarbha.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, central parts of Arabian Sea, Lakshadweep areas, north Andaman Sea, south and Eastcentral 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 4):** ♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema; & **gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands, Kerala & Mahe; **with lightning** at isolated places over Odisha, Telangana, Coastal and South Interior Karnataka.

♦ **Heat Wave to severe heat wave conditions** likely in some places over Bihar and **heat wave conditions** in isolated pockets over southeast Uttar Pradesh, northeast Jharkhand, West Bengal & Sikkim and Vidarbha.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, central parts of Arabian Sea, Lakshadweep areas, north Andaman Sea, south and Eastcentral 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.

**09 June (Day 5):** ♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema; & **gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands, Kerala & Mahe; **with lightning** at isolated places over Odisha, Telangana, Coastal and South Interior Karnataka.

♦ **Heat Wave to severe heat wave conditions** likely in some places over Bihar and **heat wave conditions** in isolated pockets over southeast Uttar Pradesh, northeast Jharkhand, West Bengal & Sikkim and Vidarbha.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, central parts of Arabian Sea, Lakshadweep areas, north Andaman Sea, south and Eastcentral 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	05-Jun	06-Jun	07-Jun	08-Jun	09-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	SCT	SCT	SCT	SCT
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	ISOL	SCT	SCT	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	SCT	SCT	SCT	SCT
6	GANGETIC WEST BENGAL	ISOL	ISOL	ISOL	ISOL	ISOL
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	DRY	DRY	DRY	ISOL	ISOL
9	BIHAR	DRY	DRY	DRY	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	ISOL	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	DRY	DRY	DRY
14	PUNJAB	DRY	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	SCT	SCT	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	ISOL	DRY	DRY	DRY	ISOL
18	EAST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	DRY	DRY	DRY	DRY
21	GUJARAT REGION	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	DRY	DRY	DRY
25	MARATHAWADA	ISOL	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	ISOL	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	DRY	ISOL	ISOL	ISOL
30	RAYALASEEMA	SCT	SCT	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAİKAL	SCT	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	SCT	SCT	SCT	SCT	SCT
33	NORTH INTERIOR KARNATAKA	SCT	SCT	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	FWS	SCT	FWS	FWS	FWS
35	KERALA & MAHE	FWS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	FWS	FWS	FWS	FWS	WS

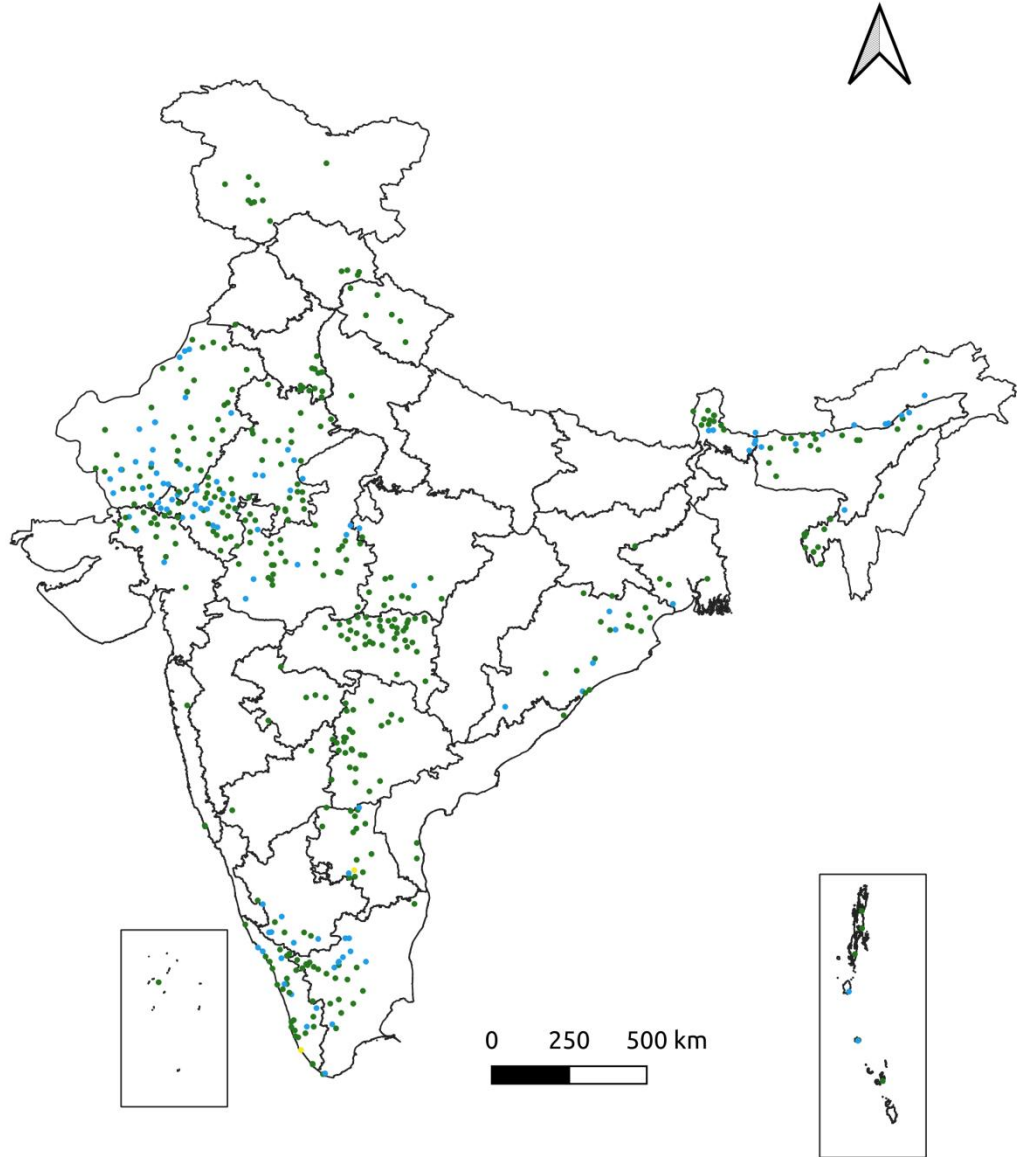
Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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

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## 24 Hr cumulative rainfall recorded over different stations during 0830 IST of 3-6-2023 to 0830 IST of 4-6-2023

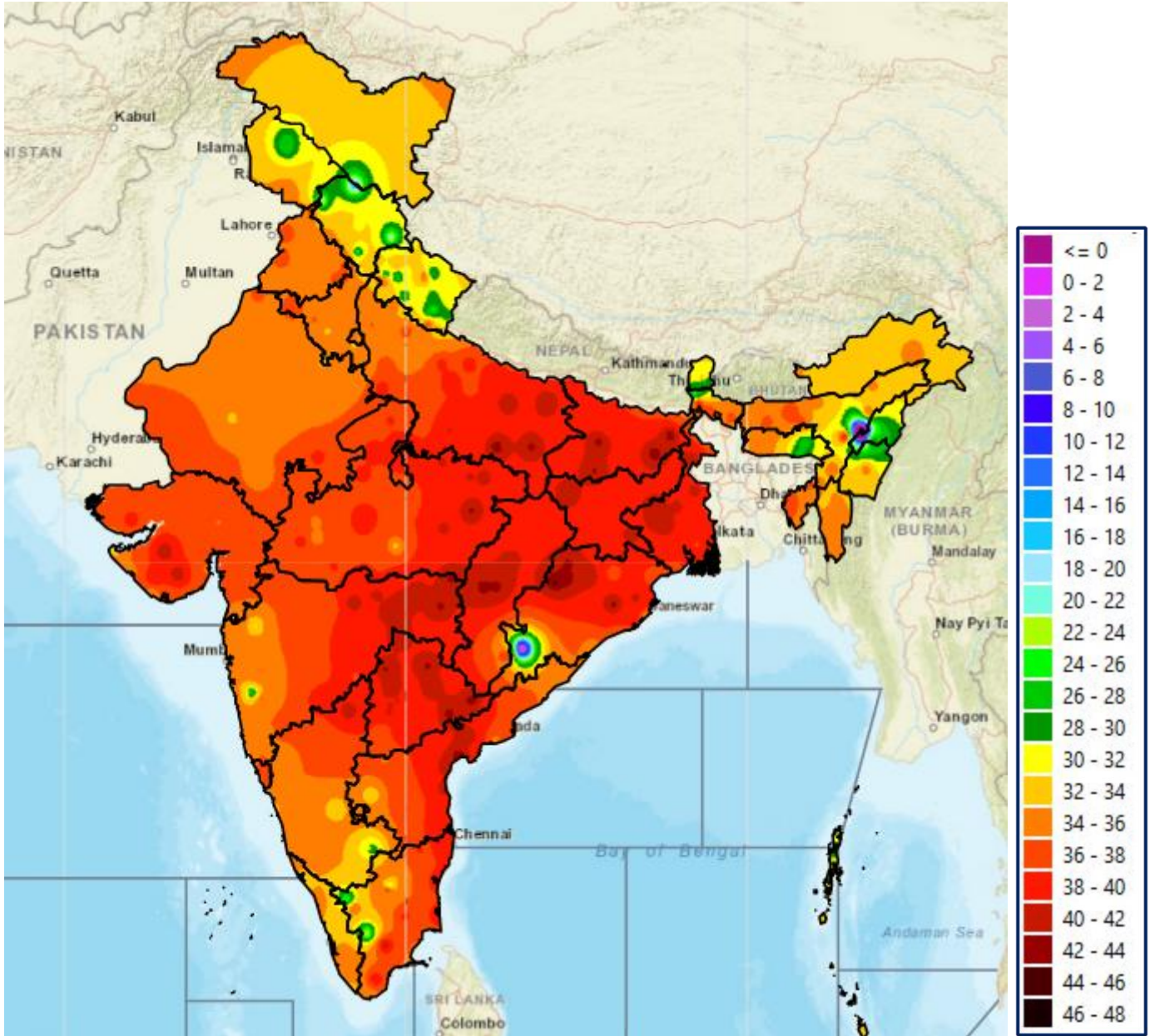


### Legends

- 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)

**Fig. 2: Maximum Temperatures Dated 04.06.2023**

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Fig. 3: Minimum Temperatures Dated 04.06.2023

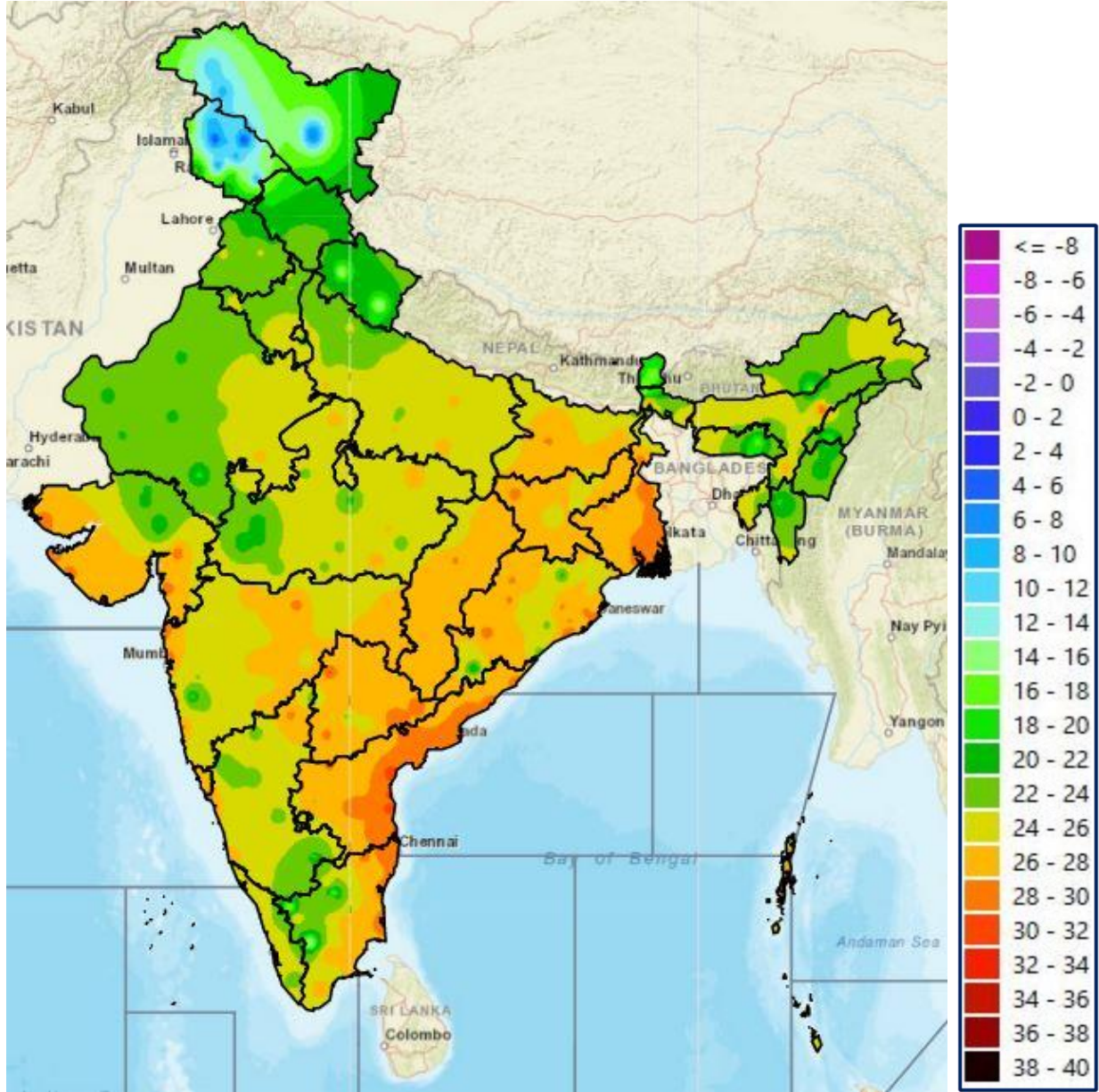
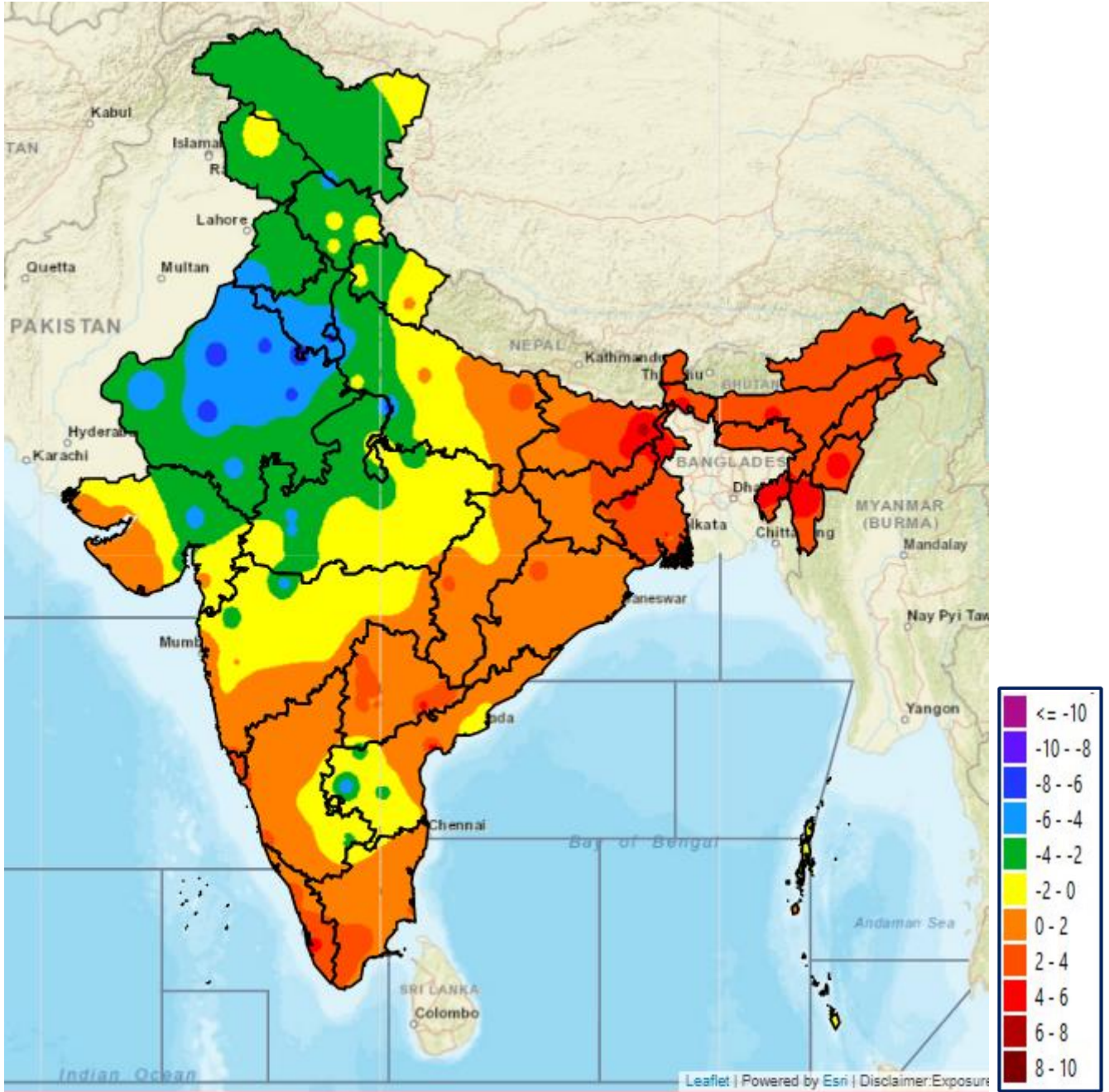


Fig. 4: Departure from Normal of Maximum Temperatures Dated 04.06.2023



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Fig. 5: Departure from Normal of Minimum Temperatures Dated 04.06.2023

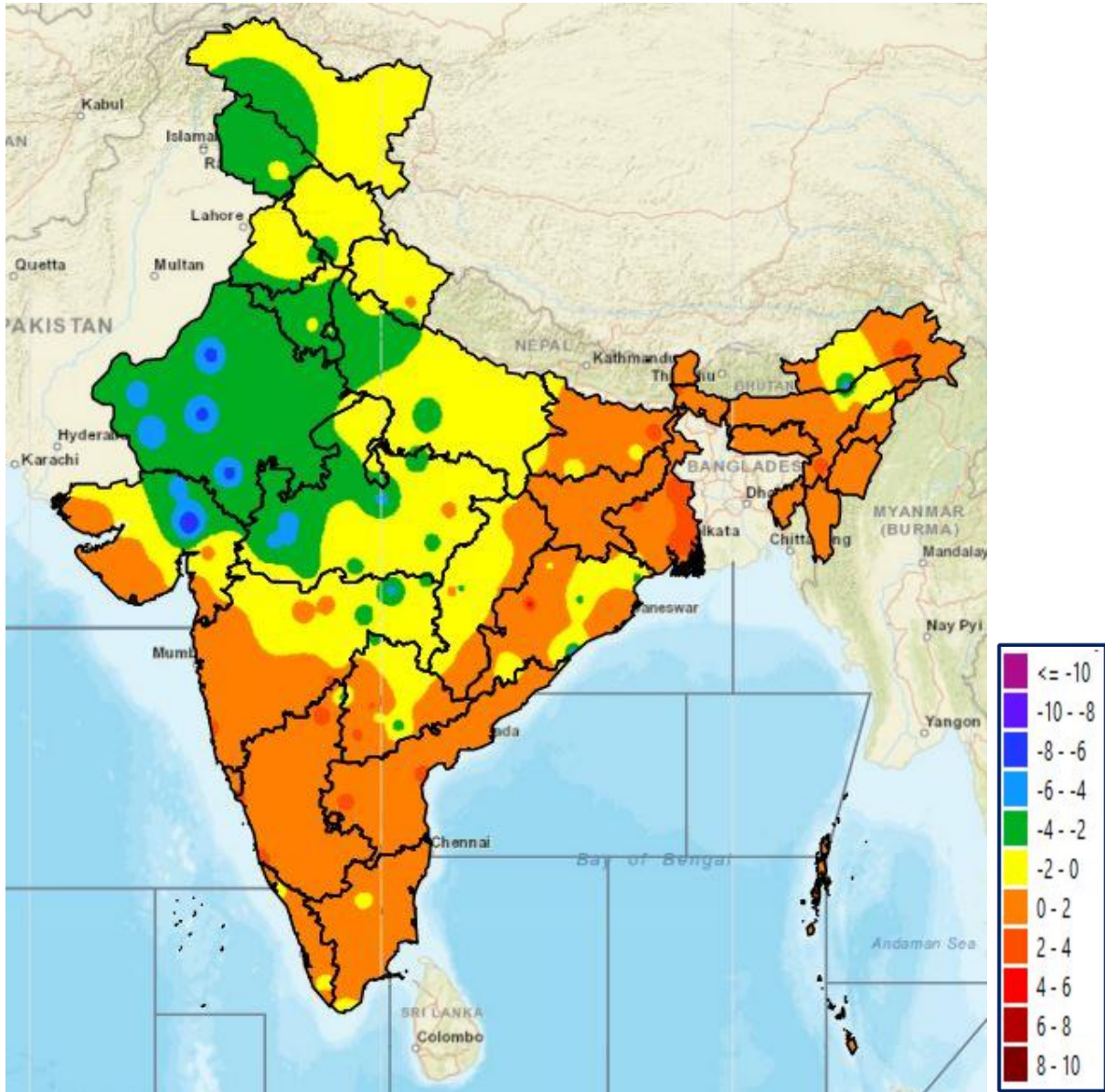
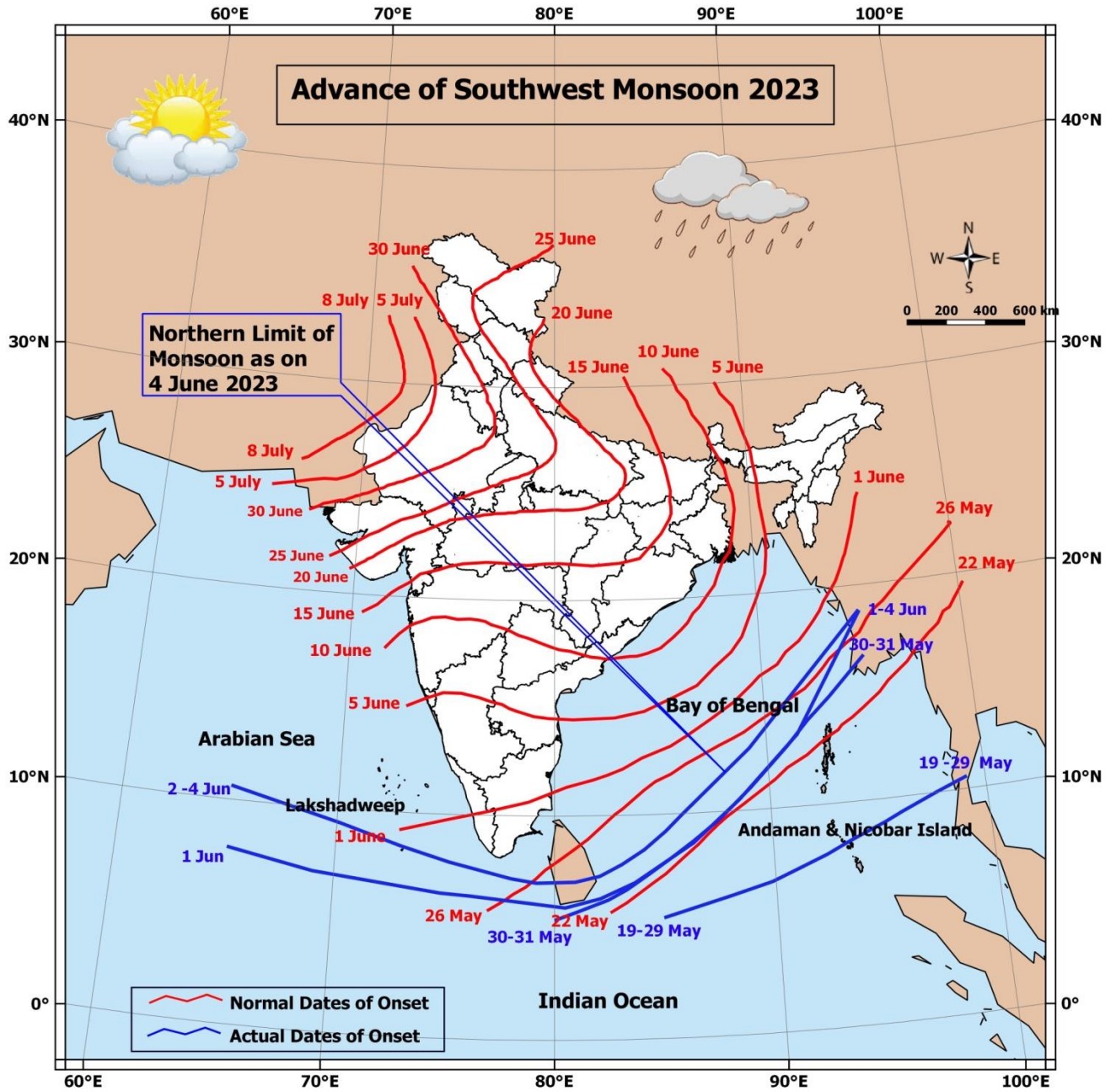
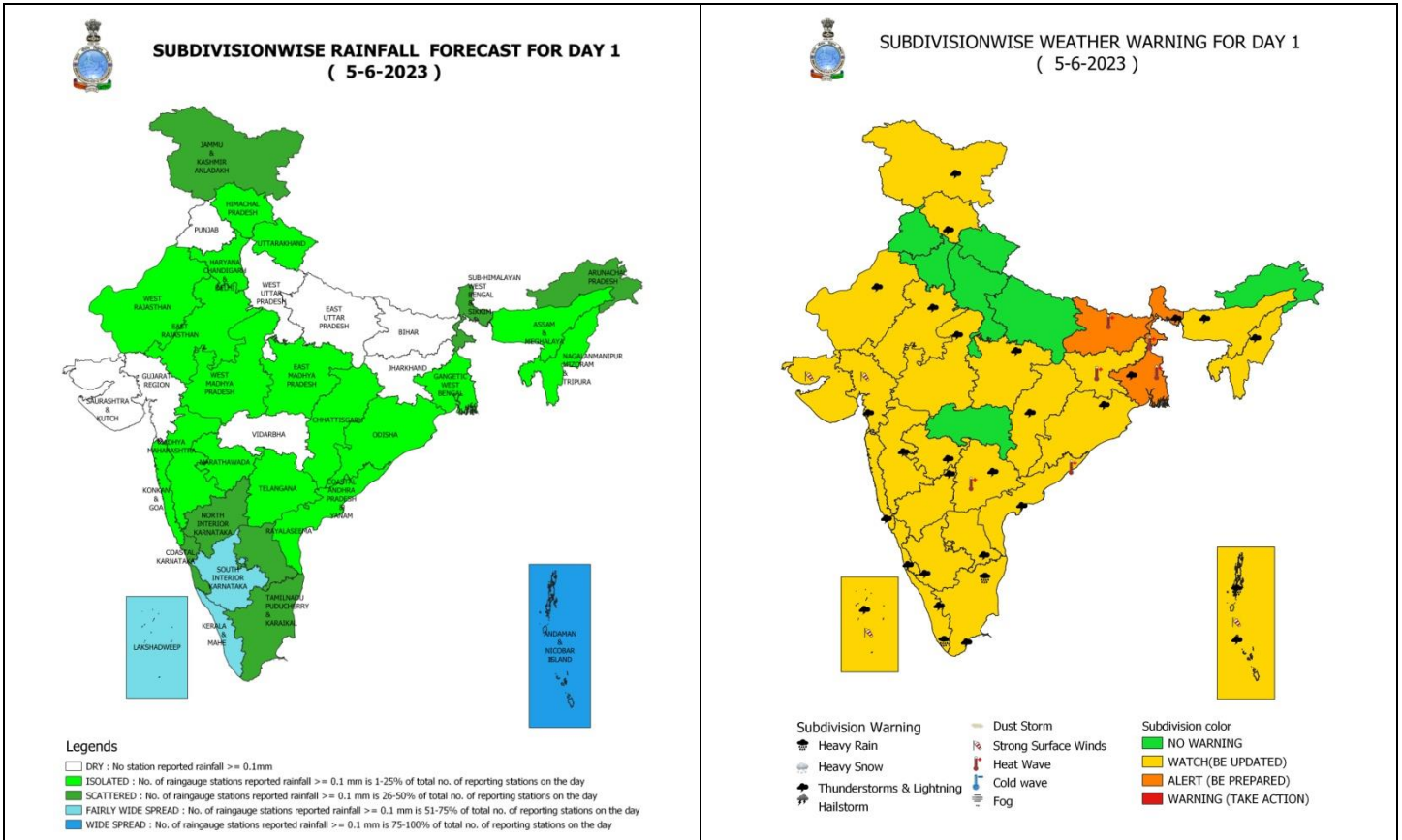




Fig. 6: Advance of Southwest Monsoon



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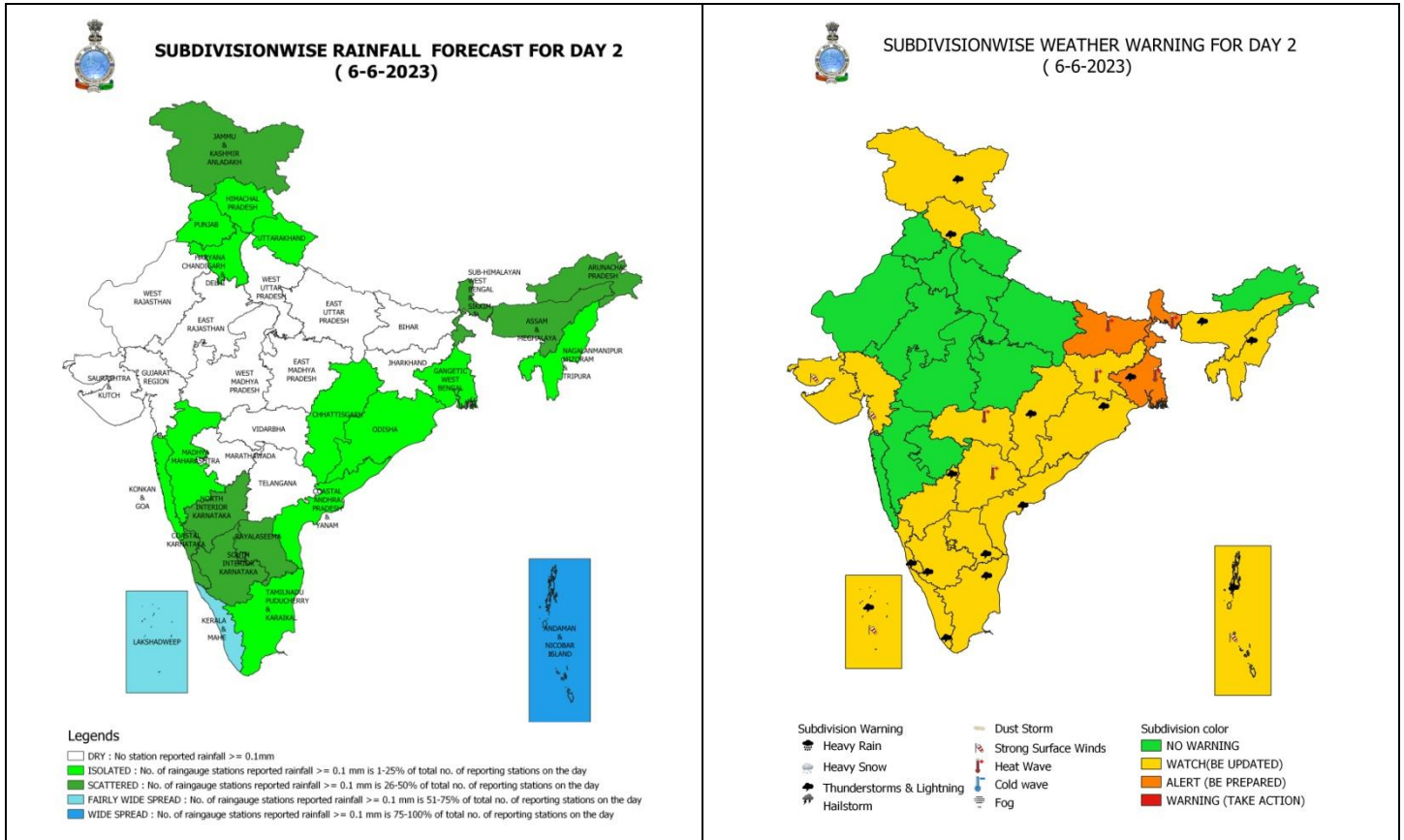


**05 June (Day 1):** ♦ **Heavy rainfall** very likely at isolated places over Kerala, Tamil Nadu and Andaman & Nicobar Islands.

♦ **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 Rajasthan, Madhya Pradesh, Chhattisgarh, Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat region, Rayalaseema, Lakshadweep and Kerala & Mahe **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Heat Wave to severe heat wave conditions** very likely in some places over Bihar and **heat wave conditions** in isolated pockets over northeast Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Telangana.

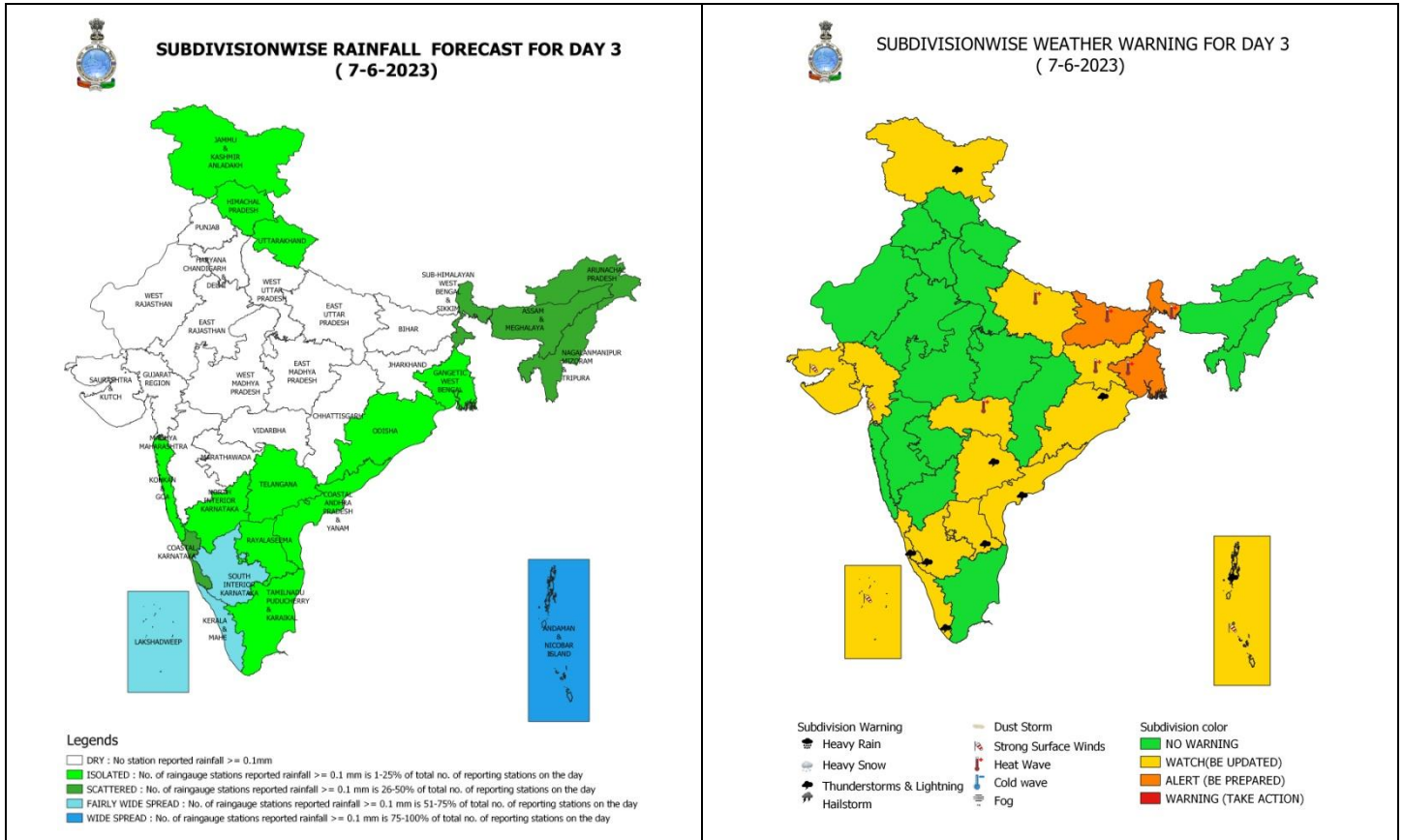
♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, Lakshadweep-Maldives areas, north Andaman Sea, south and Eastcentral Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast Arabian Sea,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



**06 June (Day 2):** ♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Chhattisgarh, Andaman & Nicobar Islands, Kerala & Mahe, Rayalaseema, Lakshadweep; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal.

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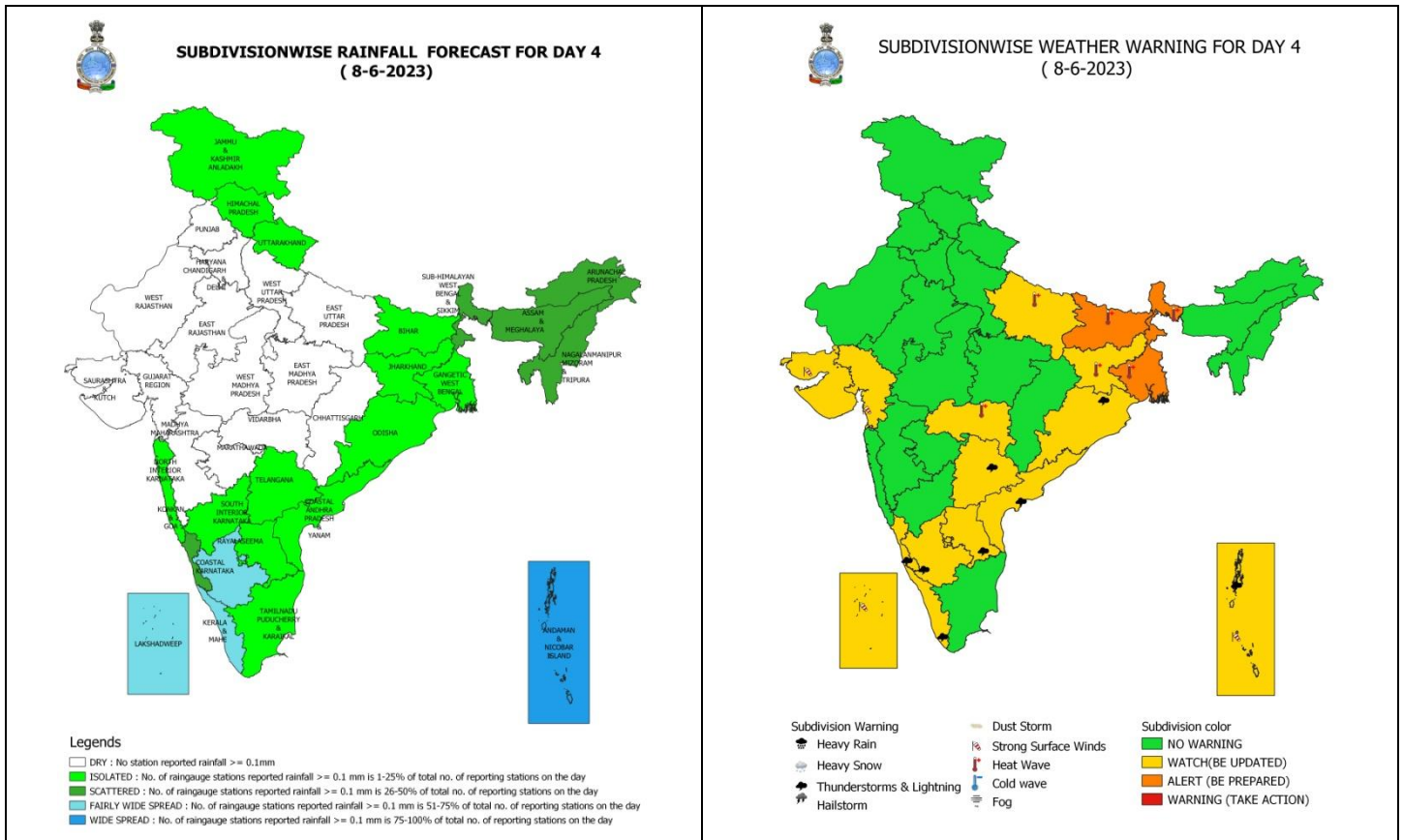
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**07 June (Day 3):** ♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema; & **gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Odisha, Telangana, Coastal and South Interior Karnataka.

♦ **Heat Wave to severe heat wave conditions** likely in some places over Bihar and **heat wave conditions** in isolated pockets over southeast Uttar Pradesh, northeast Jharkhand, West Bengal & Sikkim and Vidarbha.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, central parts of Arabian Sea, Lakshadweep areas, north Andaman Sea, south and Eastcentral 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 4):** ♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema; & **gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands, Kerala & Mahe; **with lightning** at isolated places over Odisha, Telangana, Coastal and South Interior Karnataka.

♦ **Heat Wave to severe heat wave conditions** likely in some places over Bihar and **heat wave conditions** in isolated pockets over southeast Uttar Pradesh, northeast Jharkhand, West Bengal & Sikkim and Vidarbha.

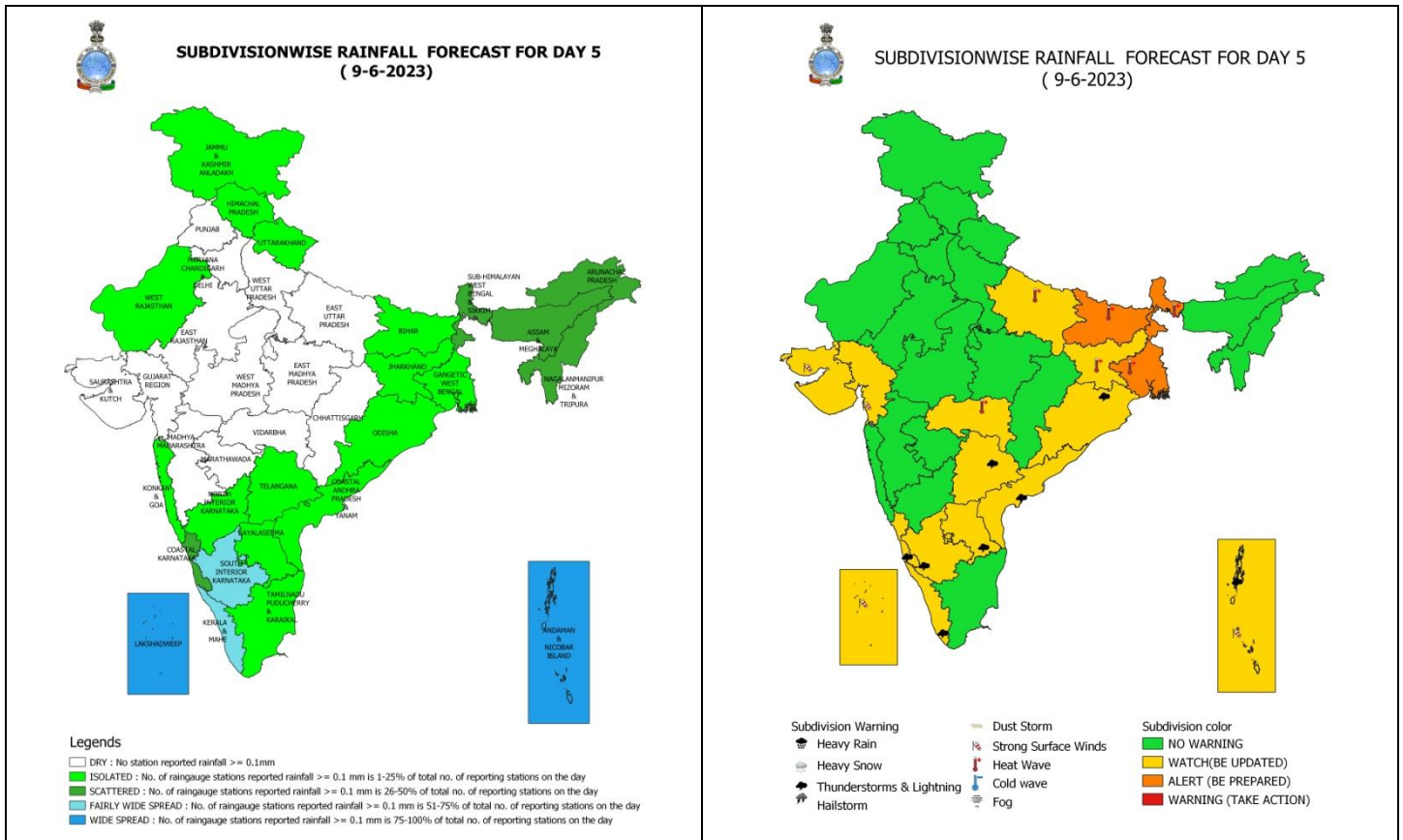
♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, central parts of Arabian Sea, Lakshadweep areas, north Andaman Sea, south and Eastcentral Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast 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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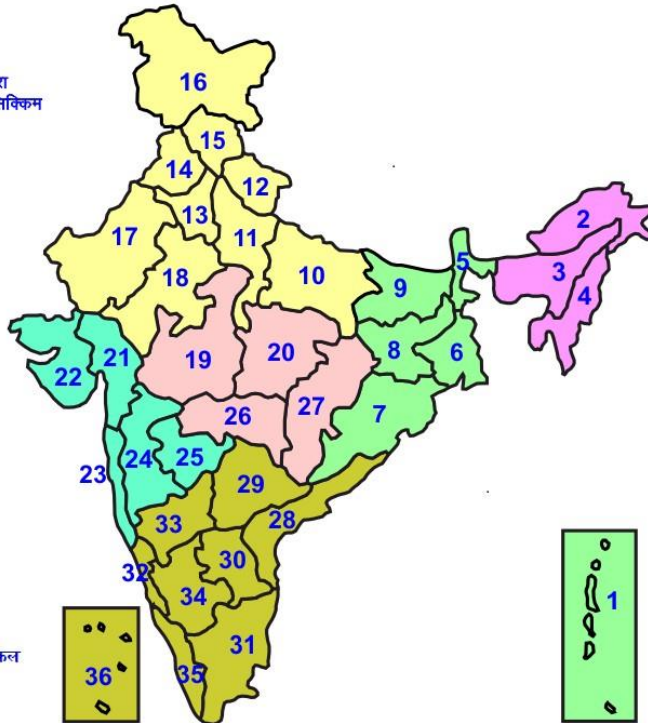
**09 June (Day 5): ♦ Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema; **& gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands, Kerala & Mahe; **with lightning** at isolated places over Odisha, Telangana, Coastal and South Interior Karnataka.

♦ **Heat Wave to severe heat wave conditions** likely in some places over Bihar and **heat wave conditions** in isolated pockets over southeast Uttar Pradesh, northeast Jharkhand, West Bengal & Sikkim and Vidarbha.

♦ **Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over southeast & adjoining southwest Arabian Sea, central parts of Arabian Sea, Lakshadweep areas, north Andaman Sea, south and Eastcentral 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.

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ 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 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 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. Marathwada
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  $> 4.5^{\circ}\text{C}$  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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