



Monday, June 05, 2023
Time of Issue: 2030 hours IST
(NIGHT)

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:

- ❖ **Under the influence of a cyclonic circulation over Southeast Arabian Sea, a Low Pressure Area has formed over the same region and the associated cyclonic circulation extends upto mid-tropospheric levels. It is likely to move nearly north-northwestwards and concentrate into a Depression over Southeast & adjoining Eastcentral Arabian Sea during next 24 hours.**
- ❖ A trough runs from east Bihar to Telangana in lower tropospheric levels.

Forecast and warning over the country during next 5 days:

- Light/moderate fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Kerala, Lakshadweep, South Interior Karnataka; isolated to scattered activity over Tamil Nadu and Andhra Pradesh during next 5 days.
- **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands during 05th-07th; Lakshadweep, Kerala during 07th-09th and South Interior Karnataka on 07th June.

Maximum Temperatures and Heat Wave warning:

- Yesterday, **Maximum Temperatures** were 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. Maximum temperature are above normal by 4-6°C very likely over West Bengal & Sikkim, Bihar and Northeast India and by 2-4°C over Coastal Andhra Pradesh, Telangana, Chhattisgarh, Jharkhand and Tamil Nadu.
- Gradual rise in maximum temperatures by 2-4°C very likely over plains of Northwest India during next 5 days. No significant change in maximum temperatures very likely over Central India during next 48 hours and rise by 2-3°C thereafter.
- **Heat wave to severe heat wave conditions** very likely to continue in isolated pockets over Bihar during 05th to 09th June.
- **Heat wave conditions** very likely to continue in isolated pockets over West Bengal & Sikkim, east Jharkhand, Telangana during 05th-09th June; over Coastal Andhra Pradesh & Yanam during 05th -07th June; Vidarbha & East Uttar Pradesh during 07th to 09th June; West Uttar Pradesh on 08th & 09th June.
- Due to humid air & high temperature, **Hot and Discomfort weather** is very likely over Konkan, Goa, Rayalaseema and Tamilnadu on 05th & 06th June.

No significant weather is likely over rest parts of the country during next 5 days.



Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830-1730 hours IST of today): **at a few places** over Uttarakhand, Coastal Karnataka and **at isolated places** over Himachal Pradesh, East Uttar Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Kerala, Tamil Nadu, Lakshadweep, Andaman & Nicobar Islands.
- ❖ **Rainfall amount recorded** (from 0830-1730 hours IST of today)(in cm): Shirali, Kottayam, Udhamandalam, Kodaikanal, Behrampore-1 each.
- ❖ **Thunderstorm observed** (from 0830-1730 hours IST of today): at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Kerala, Tamil Nadu.
- ❖ **Hailstorm observed** (from 0830-1730 hours IST of today): at isolated places over Himachal Pradesh, Uttarakhand, West Rajasthan, Chhattisgarh, Tamil Nadu.
- ❖ Today, **Heat Wave conditions** prevailed in isolated pockets over East Bihar and Sub-Himalayan West Bengal. This is 6th day of Heat Wave conditions over the above areas.
- ❖ **Minimum Temperature Departures (as on 05-06-2023)**: Minimum temperatures are **above normal (1.6°C to 3.0°C)** at many places over Bihar and Jharkhand; at a few places over Konkan & Goa, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Gangetic West Bengal and at isolated places over Rayalaseema and Sub-Himalayan West Bengal & Sikkim. They are **appreciably below normal (-3.1°C to -5.1°C)** at many places over East Rajasthan; at a few places over Haryana, Chandigarh & Delhi, West Rajasthan, Madhya Pradesh and Telangana and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **below normal (-1.6°C to -3.0°C)** at many places over Marathwada; at a few places over Himachal Pradesh, Gujarat Region, Odisha and Vidarbha and **near normal** over rest parts of the country. Today, **the lowest minimum temperature** of 17.2°C is reported at Charparamukh (**Assam & Meghalaya**) over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 05-06-2023)**: Maximum temperatures are **markedly above normal (5.1°C or more)** at many places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; at a few places over Bihar and at isolated places over West Bengal & Sikkim; **appreciably above normal (3.1°C to 5.1°C)** at many places over Jharkhand, Kerala & Mahe, Karnataka; at a few places over Coastal Andhra Pradesh & Yanam, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal and at isolated places over Chhattisgarh, Odisha; **above normal (1.6°C to 3.0°C)** at many places over Rayalaseema; at a few places over Telangana, Madhya Maharashtra and at isolated places over Vidarbha. They are **appreciably below normal (-3.1°C to -5.1°C)** at many places over West Rajasthan; at a few places over Haryana, Chandigarh & Delhi and at isolated places over Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at most places over East Rajasthan, at many places over Madhya Pradesh, Punjab; at a few places over Gujarat Region and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh and **near normal** over rest parts of the country. Today, **the highest maximum temperature** of 44.0°C is reported at Tikamgarh (**East Madhya Pradesh**).

Meteorological Analysis (Based on 1730 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.
- ❖ Under the influence of a cyclonic circulation over Southeast Arabian Sea, a Low Pressure Area has formed over the same region and the associated cyclonic circulation extends upto mid-tropospheric levels. It is likely to move nearly north-northwestwards and concentrate into a Depression over Southeast & adjoining Eastcentral Arabian Sea during next 24 hours.
- ❖ The trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 80°E and to the north of Lat. 22°N persists.
- ❖ The Western Disturbance as a cyclonic circulation in mid-tropospheric westerlies over north Pakistan & neighbourhood now lies over Jammu & Kashmir & adjoining north Pakistan.
- ❖ The cyclonic circulation over Northeast Rajasthan & neighbourhood at 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over Southwest Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over south Chhattisgarh & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The trough from east Bihar to Telangana across Chhattisgarh, East Madhya Pradesh and Vidarbha 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.

Weather Forecast for next 5 days (Upto 0830 hours IST of 10th June, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ Maximum Temperatures Forecast:
 - **Northwest India:** Gradual rise in maximum temperature by 2-4°C very likely during next 5 days.
 - **Central India:** No significant change in maximum temperature very likely during next 48 hours and rise in maximum temperature by 2-3°C 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 10th –12th 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 Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over West Madhya Pradesh, Andaman & Nicobar Islands, Odisha; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jharkhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Karnataka, Lakshadweep; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Heat Wave to severe heat wave conditions** very likely in isolated pockets 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, along & off Kerala coast, 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.

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

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands, Odisha; **with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, North Interior Karnataka, Kerala & Mahe, Lakshadweep; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Heat Wave to severe heat wave conditions** very likely in isolated pockets 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, along & off Kerala-Karnataka-Goa coasts, 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): ♦ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands, South Interior Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Telangana, Kerala & Mahe, Lakshadweep; **with lightning** at isolated places over Rajasthan, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema and Karnataka.

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

♦ **Squally weather (wind speed 50-60 kmph gusting to 70 kmph)** likely over southeast & adjoining Eastcentral Arabian Sea; **(wind speed 45-55 kmph gusting to 65 kmph)** along & off north Kerala-Karnataka-Goa coasts, Lakshadweep areas, north Andaman Sea, south Bay of Bengal, Eastcentral & adjoining Westcentral Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

08 June (Day 4): ♦ **Heavy rainfall** likely at isolated places over Kerala & Mahe and Lakshadweep.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands, Coastal Karnataka, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Rajasthan, Odisha, Interior Karnataka and Coastal Andhra Pradesh & Yanam.

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

♦ **Squally weather (wind speed 50-60 kmph gusting to 70 kmph)** likely over southeast & adjoining Eastcentral Arabian Sea; **(wind speed 45-55 kmph gusting to 65 kmph)** along & off north Karnataka- south Maharashtra-Goa coasts, Lakshadweep areas, north Andaman Sea, south Bay of Bengal, Eastcentral & adjoining Westcentral Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

09 June (Day 5): ♦ **Heavy rainfall** likely at isolated places over Kerala & Mahe and Lakshadweep.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands, Coastal Karnataka, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Rajasthan, Interior Karnataka and Coastal Andhra Pradesh & Yanam.

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

♦ **Squally weather (wind speed 50-60 kmph gusting to 70 kmph)** likely over southeast & adjoining Eastcentral Arabian Sea; **(wind speed 45-55 kmph gusting to 65 kmph)** along & off north Karnataka- south Maharashtra-Goa coasts, Lakshadweep areas, north Andaman Sea, south Bay of Bengal, Eastcentral & adjoining Westcentral & Northeast Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.



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	FWS
3	ASSAM & MEGHALAYA	ISOL	ISOL	SCT	FWS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	ISOL	SCT	FWS	WS
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	ISOL	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY
12	UTTARAKHAND	SCT	ISOL	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	ISOL	DRY	DRY
14	PUNJAB	DRY	ISOL	ISOL	DRY	DRY
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	SCT	SCT	ISOL	DRY	DRY
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	ISOL	ISOL	DRY	DRY	DRY
20	EAST MADHYA PRADESH	ISOL	DRY	DRY	DRY	DRY
21	GUJARAT REGION	ISOL	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	ISOL	ISOL	ISOL
25	MARATHAWADA	ISOL	ISOL	DRY	DRY	ISOL
26	VIDARBHA	ISOL	ISOL	DRY	DRY	DRY
27	CHHATTISGARH	ISOL	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	SCT	SCT	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	SCT	SCT	FWS
35	KERALA & MAHE	SCT	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	FWS	FWS	WS	WS	WS

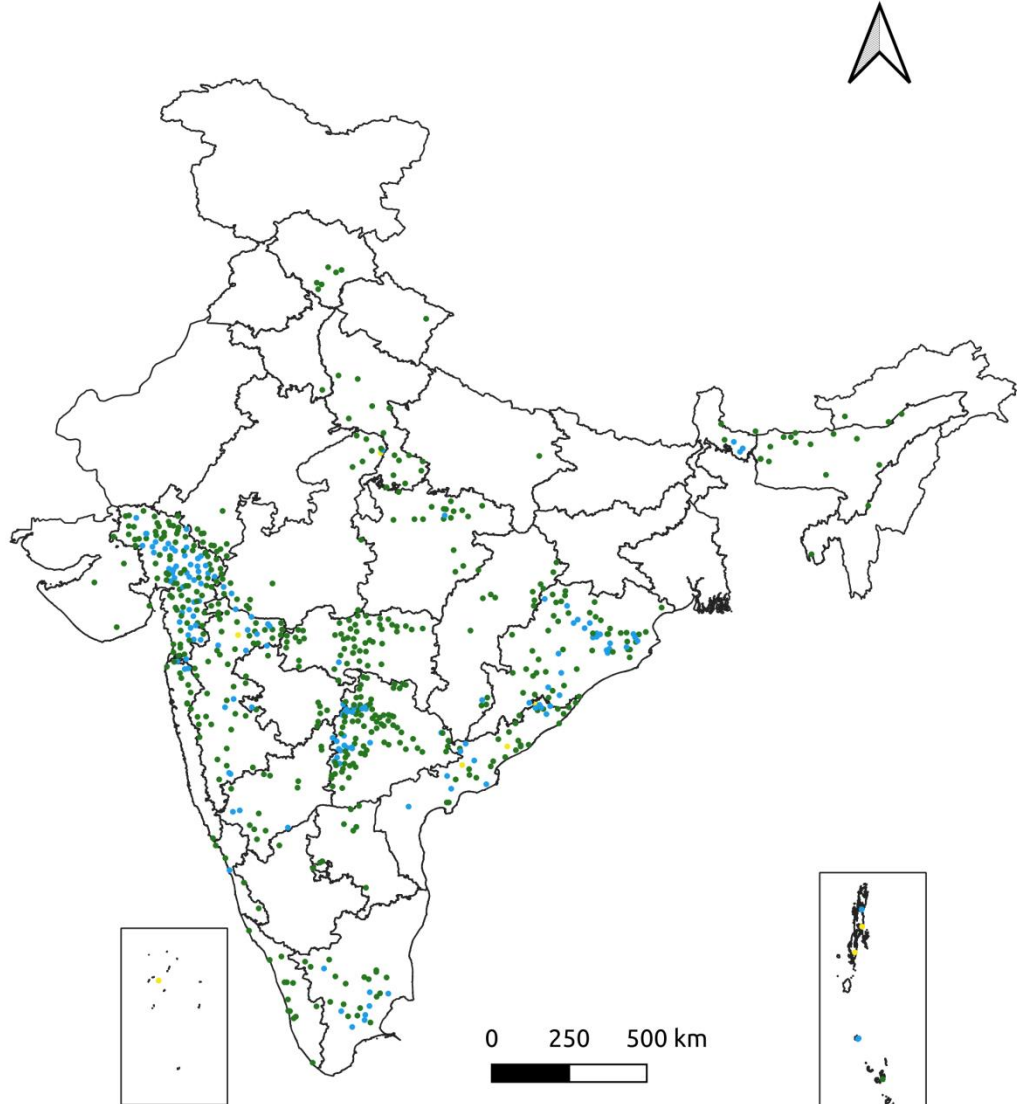
Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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



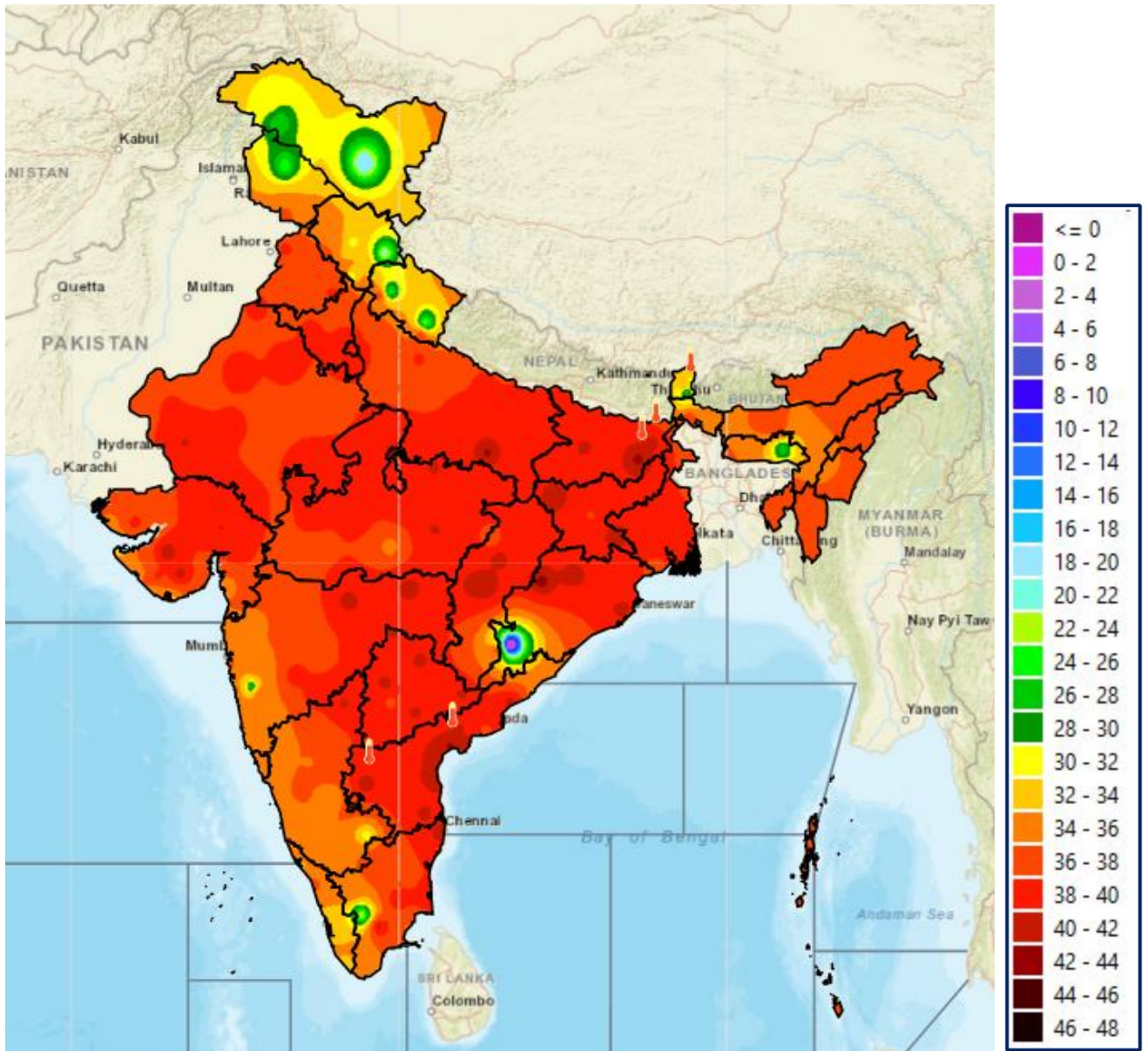
24 Hr cumulative rainfall recorded over different stations
during 0830 IST of 4-6-2023 to 0830 IST of 5-6-2023



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 (≥ 204.5 mm)

Fig. 2: Maximum Temperatures Dated 05.06.2023



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Fig. 3: Minimum Temperatures Dated 05.06.2023

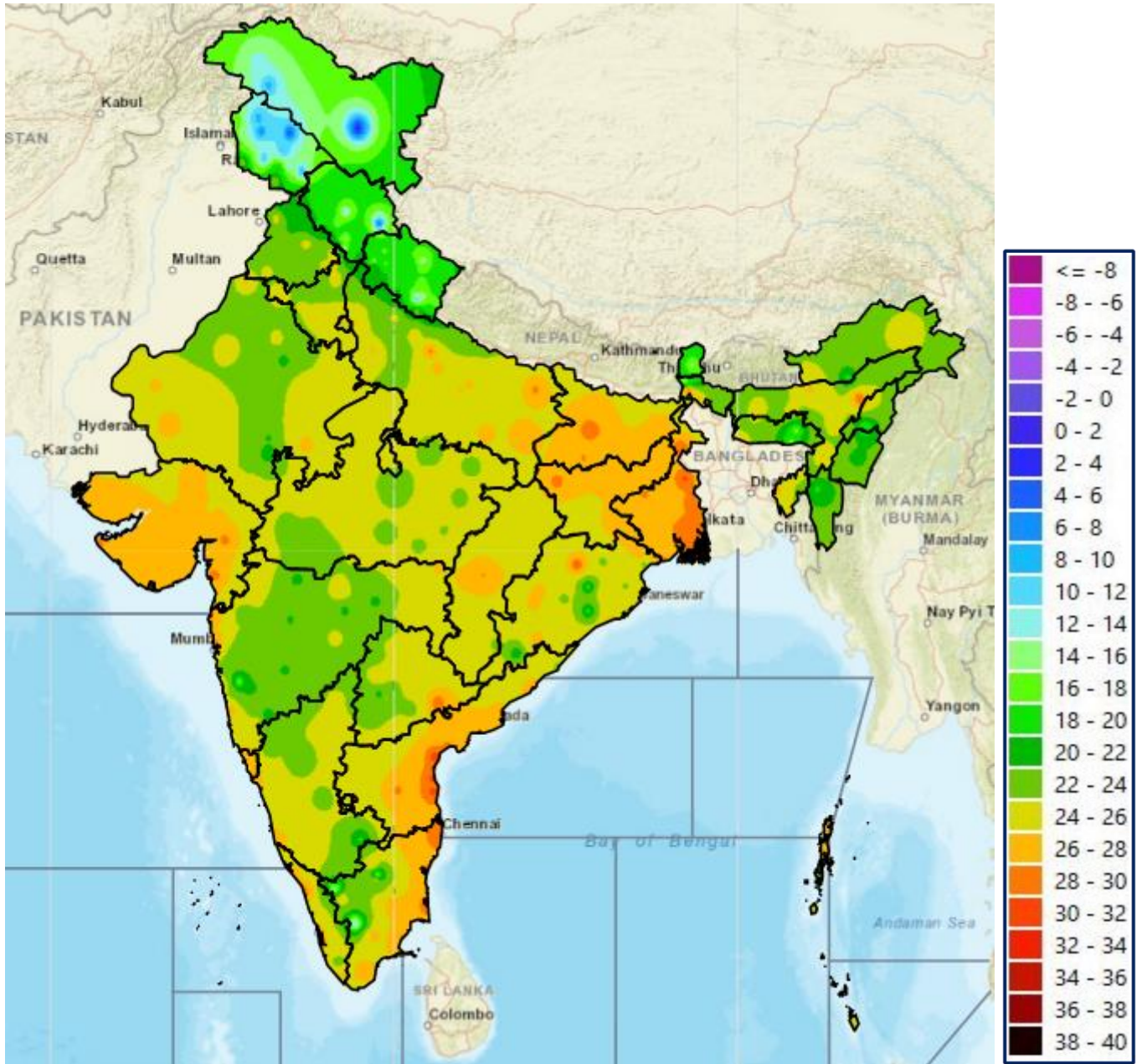
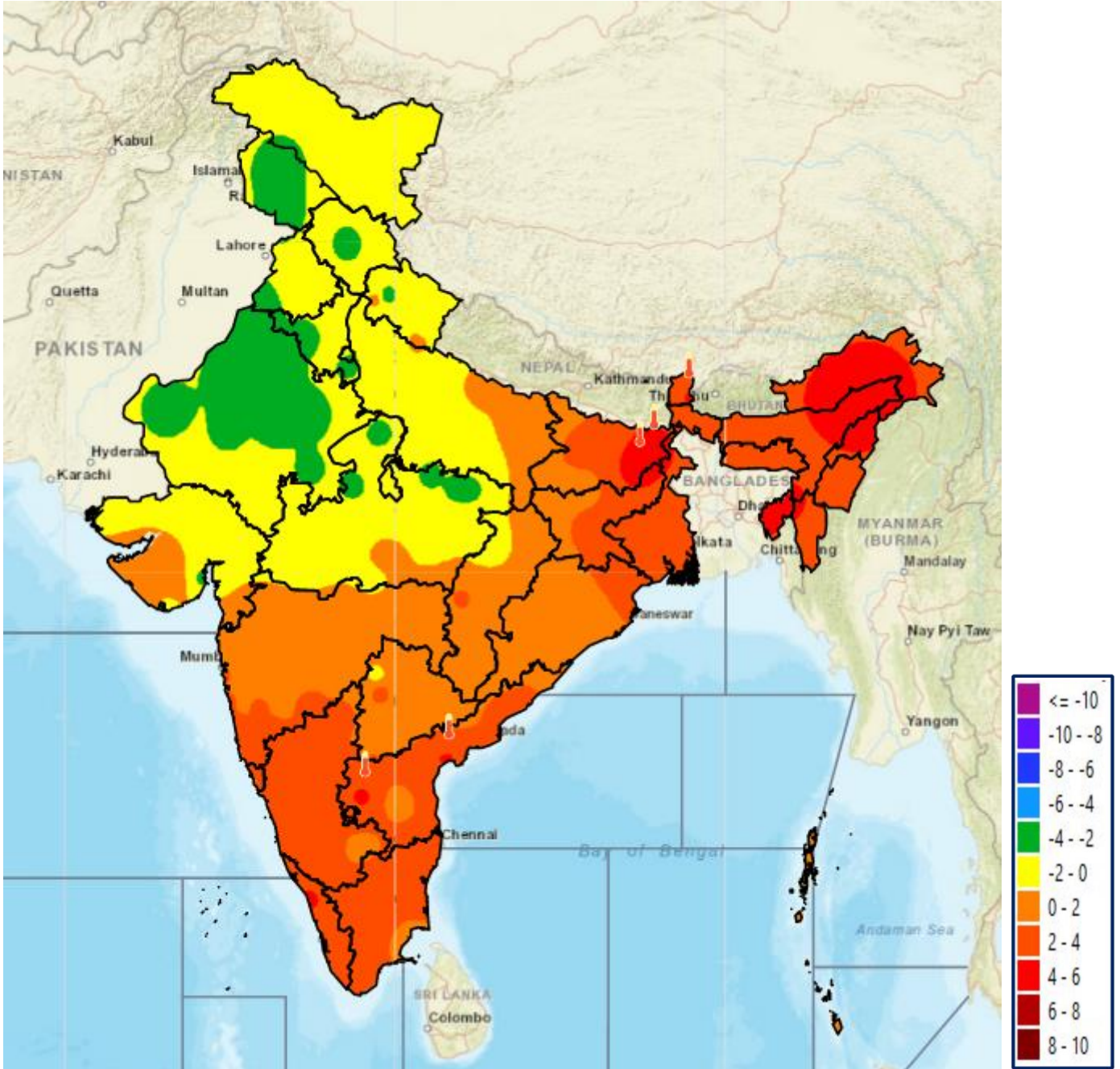
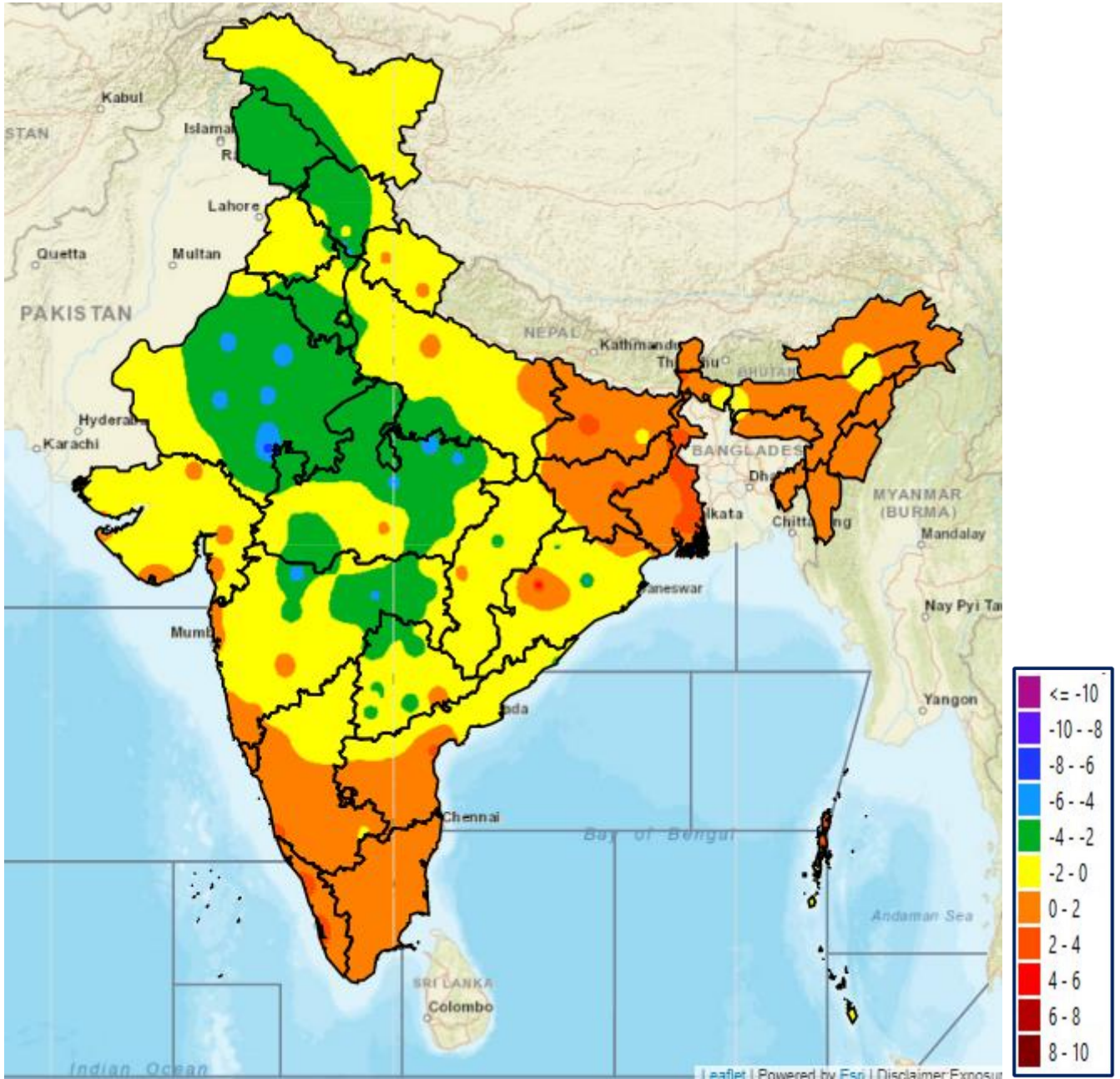


Fig. 4: Departure from Normal of Maximum Temperatures Dated 05.06.2023



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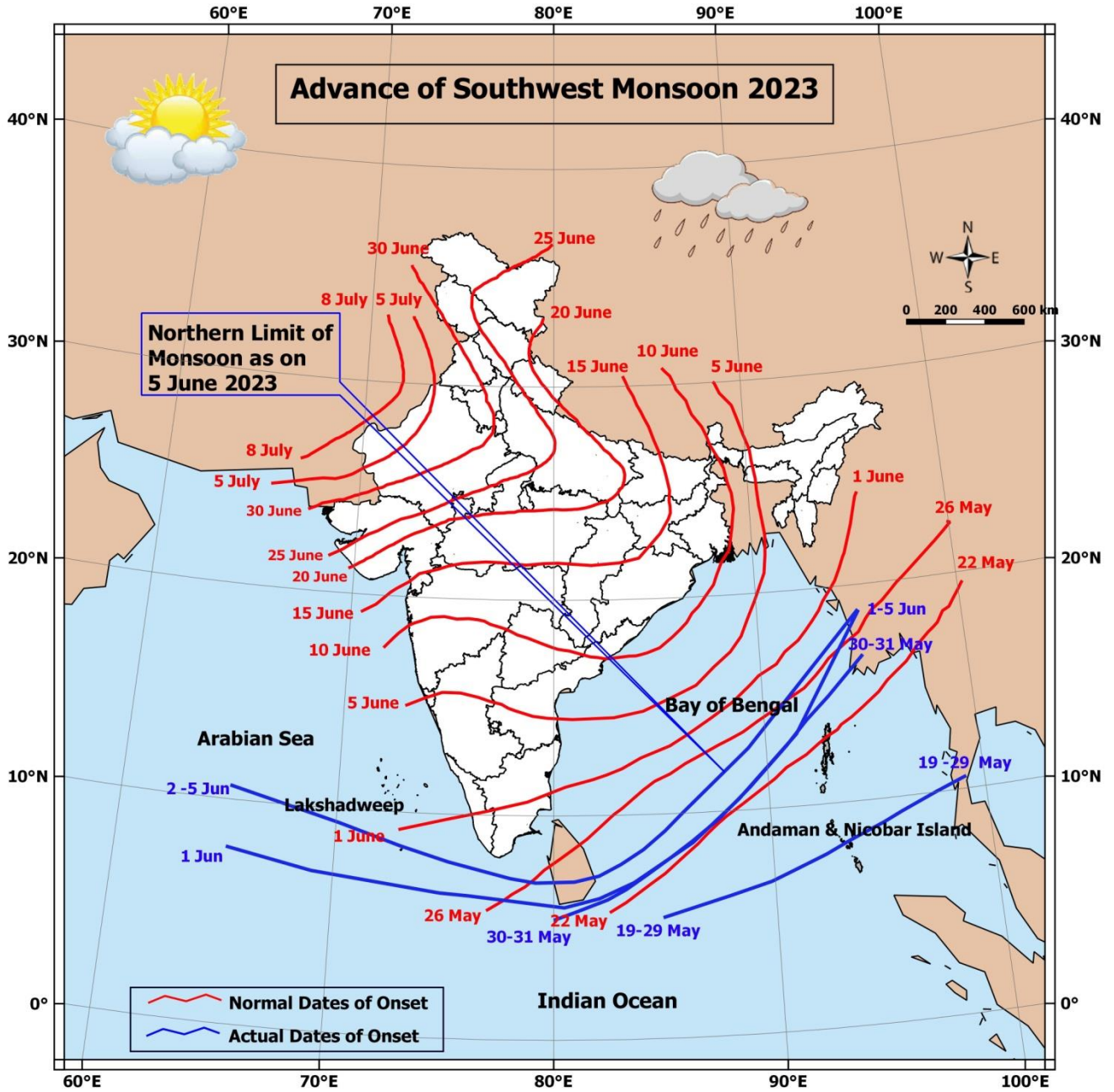
Fig. 5: Departure from Normal of Minimum Temperatures Dated 05.06.2023

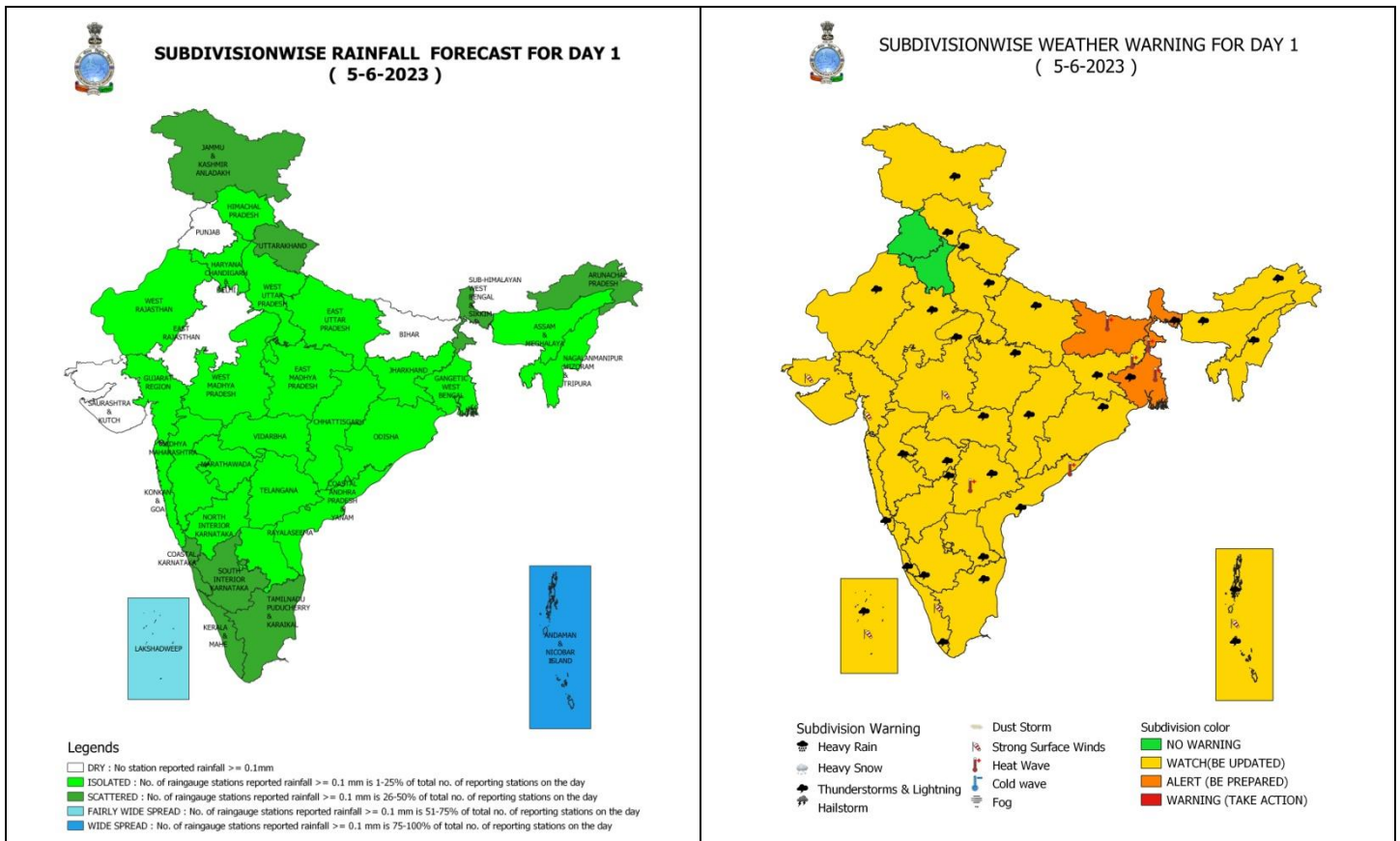


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Fig. 6: Advance of Southwest Monsoon



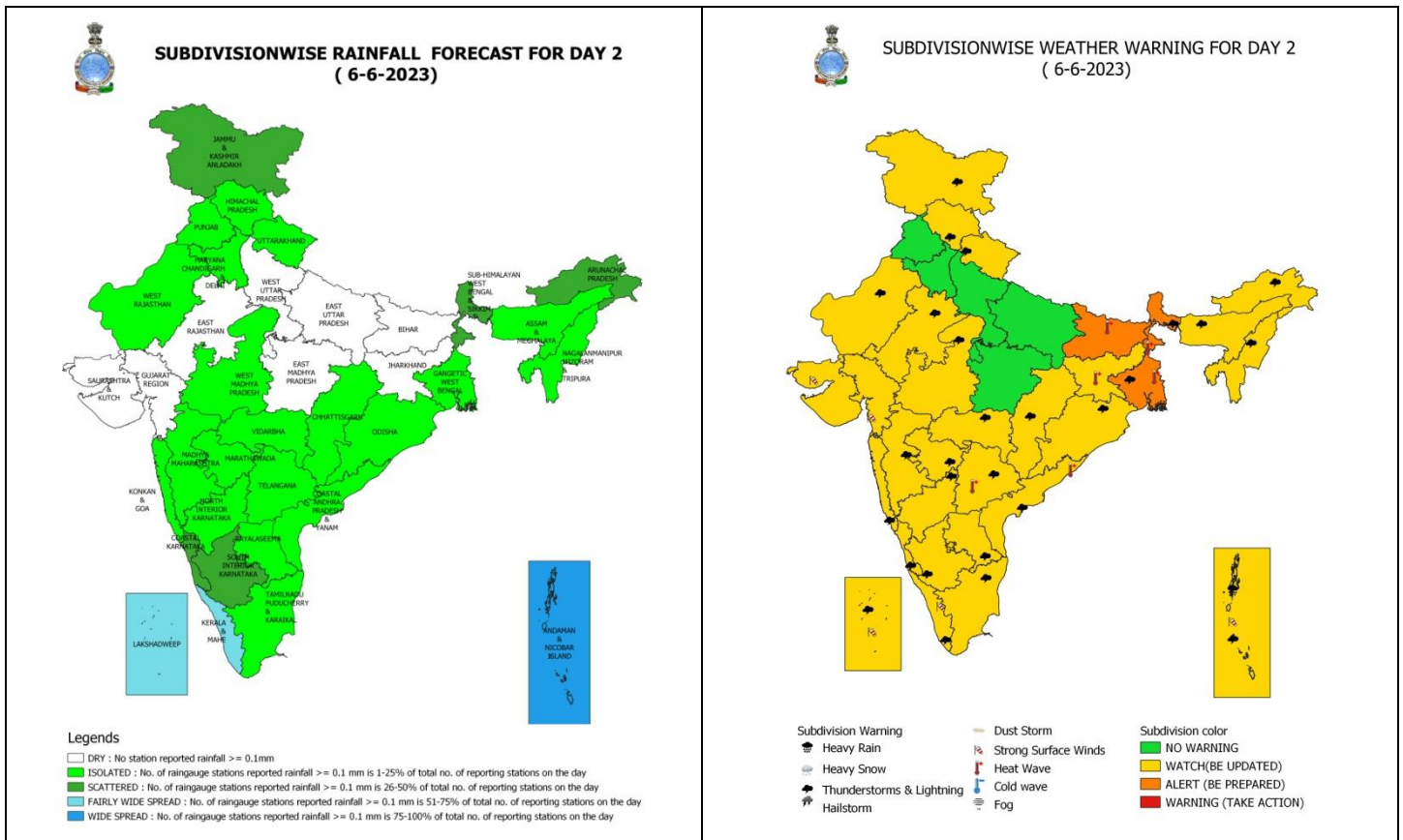


05 June (Day 1): ♦ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over West Madhya Pradesh, Andaman & Nicobar Islands, Odisha; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jharkhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Karnataka, Lakshadweep; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Heat Wave to severe heat wave conditions** very likely in isolated pockets over Bihar and **heat wave conditions** in isolated pockets over East 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, along & off Kerala coast, 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.

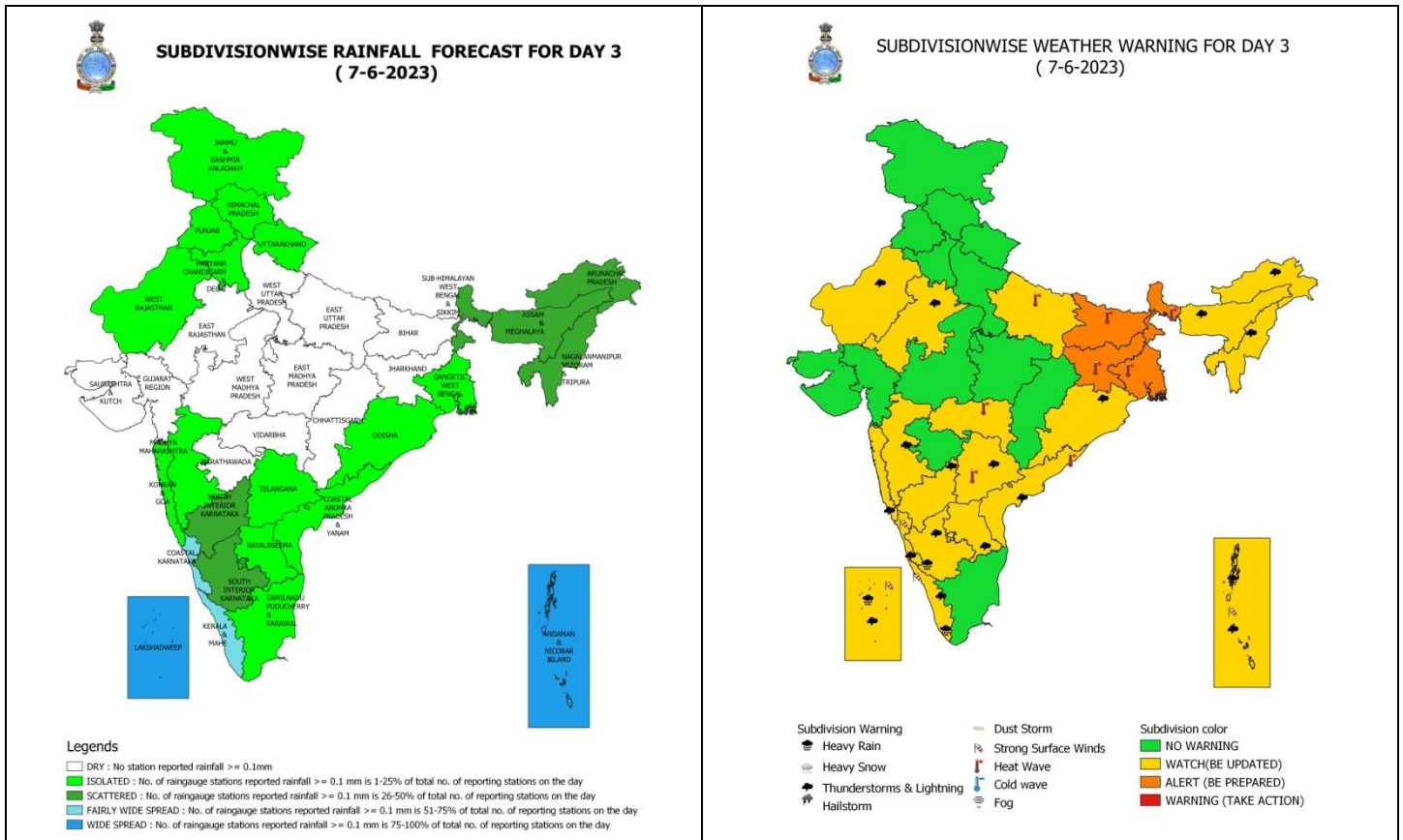


06 June (Day 2): ♦ Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands, Odisha; **with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, North Interior Karnataka, Kerala & Mahe, Lakshadweep; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Heat Wave to severe heat wave conditions** very likely in isolated pockets over Bihar and **heat wave conditions** in isolated pockets over East 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, along & off Kerala-Karnataka-Goa coasts, 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): ♦ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands, South Interior Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Telangana, Kerala & Mahe, Lakshadweep; **with lightning** at isolated places over Rajasthan, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema and Karnataka.

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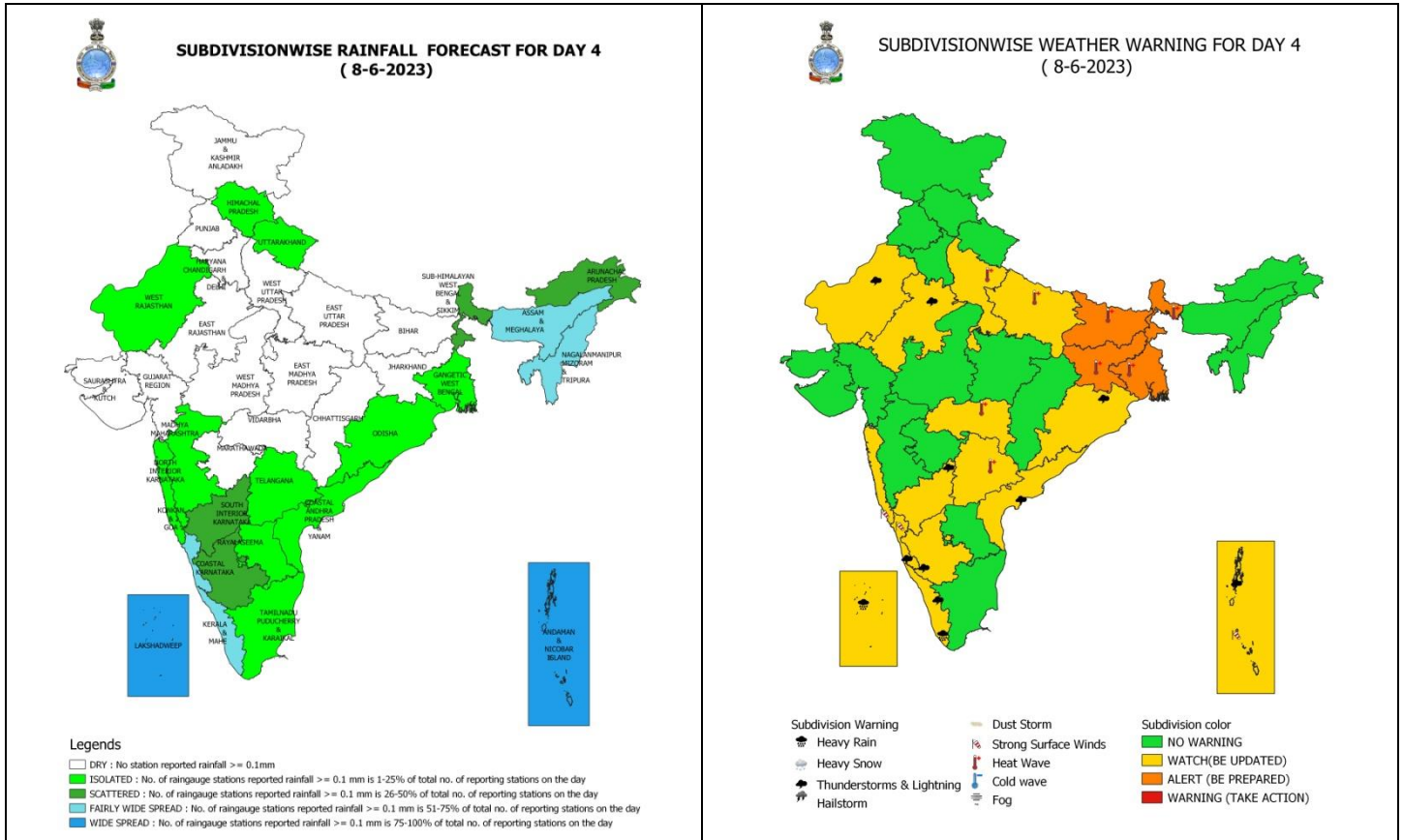
♦ **Squally weather (wind speed 50-60 kmph gusting to 70 kmph)** likely over southeast & adjoining Eastcentral Arabian Sea; **(wind speed 45-55 kmph gusting to 65 kmph)** along & off north Kerala-Karnataka-Goa coasts, Lakshadweep areas, north Andaman Sea, south Bay of Bengal, Eastcentral & adjoining Westcentral Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

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08 June (Day 4): ♦ Heavy rainfall likely at isolated places over Kerala & Mahe and Lakshadweep.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands, Coastal Karnataka, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Rajasthan, Odisha, Interior Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Heat Wave to severe heat wave conditions** likely in isolated pockets over Bihar and **heat wave conditions** in isolated pockets over south Uttar Pradesh, East Jharkhand, West Bengal & Sikkim, Telangana and Vidarbha.

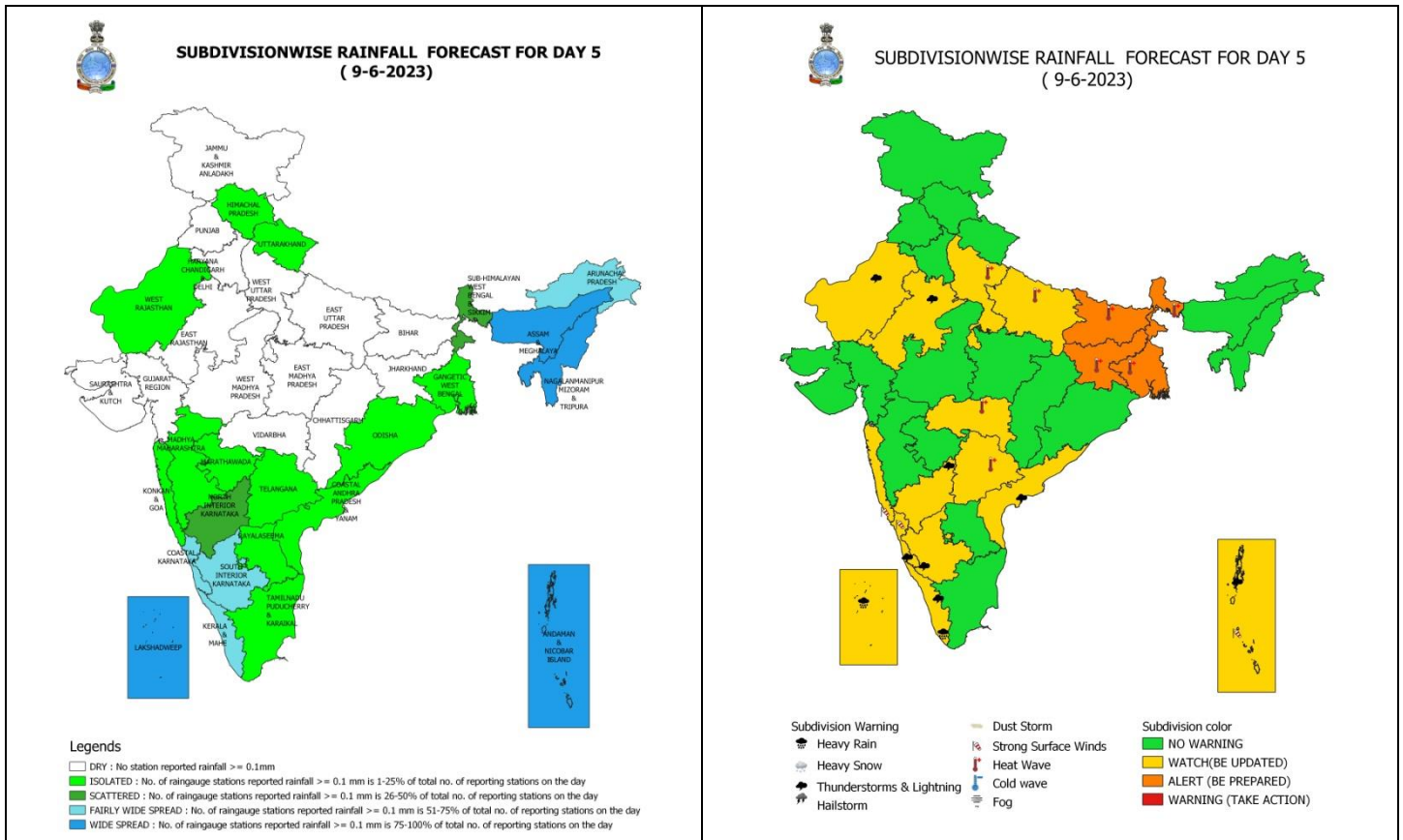
♦ **Squally weather (wind speed 50-60 kmph gusting to 70 kmph)** likely over southeast & adjoining Eastcentral Arabian Sea; **(wind speed 45-55 kmph gusting to 65 kmph)** along & off north Karnataka- south Maharashtra-Goa coasts, Lakshadweep areas, north Andaman Sea, south Bay of Bengal, Eastcentral & adjoining Westcentral Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

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09 June (Day 5): ♦ Heavy rainfall likely at isolated places over Kerala & Mahe and Lakshadweep.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Andaman & Nicobar Islands, Coastal Karnataka, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Rajasthan, Interior Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Heat Wave to severe heat wave conditions** likely in isolated pockets over Bihar and **heat wave conditions** in isolated pockets over south Uttar Pradesh, East Jharkhand, West Bengal & Sikkim, Telangana and Vidarbha.

♦ **Squally weather (wind speed 50-60 kmph gusting to 70 kmph)** likely over southeast & adjoining Eastcentral Arabian Sea; **(wind speed 45-55 kmph gusting to 65 kmph)** along & off north Karnataka- south Maharashtra-Goa coasts, Lakshadweep areas, north Andaman Sea, south Bay of Bengal, Eastcentral & adjoining Westcentral & Northeast Bay of Bengal. **Squally wind (speed 45-55 kmph gusting to 65 kmph)** very likely over Gulf of Mannar & adjoining Comorin area. Fishermen are advised not to venture into these areas.

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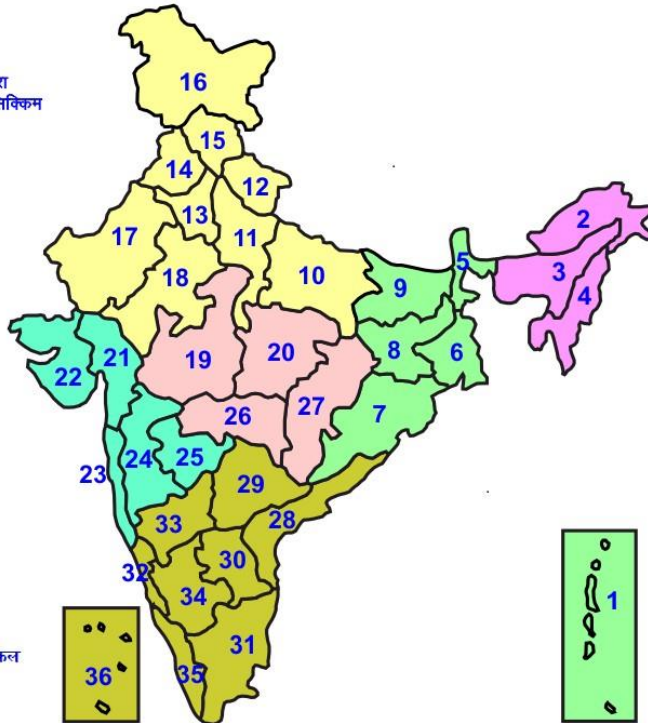
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LEGENDS

- 1 अंडमान और निकोबार द्वीप 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

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



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°C to 6.4°C .

Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$.



Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions

Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

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