



Saturday, May 27, 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 5°N/85°E, 6.5°N/90°E, Nancowry and 10°N/98°E.
- ❖ Conditions are favourable for further advance of southwest monsoon into some more parts of south Bay of Bengal, Andaman Sea and Andaman & Nicobar Islands during next 2 days.

Significant Meteorological features:

- ❖ A cyclonic circulation lies over north Pakistan & adjoining Punjab in lower tropospheric levels.
- ❖ A Trough runs from south Haryana to Sikkim in lower tropospheric levels.
- ❖ A trough runs from southeast Madhya Pradesh to South Interior Karnataka and another from north Bihar to north Odisha in lower tropospheric levels.
- ❖ Strong southwesterly winds from Bay of Bengal to northeast India are prevailing at lower tropospheric levels.

Forecast and warning over the country during next 5 days:

Northwest India:

- Light/moderate rainfall at some places with thunderstorm, lightning & occasional gusty winds/squall very likely over Northwest India on 27th & 28th May and fairly widespread rainfall with thunderstorm, lightning & occasional gusty winds/squall activity over the region on 29th May.
- **Thundersquall/Gusty Wind speed reaching 50-60 kmph** likely at isolated places over West Uttar Pradesh on 27th May.
- **Thundersquall/Gusty Wind speed reaching 50-60 kmph accompanied with hail** likely at isolated places over Rajasthan on 28th & 29th May.

Northeast India:

- Light/moderate scattered to fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely to continue over Assam & Meghalaya and Mizoram & Tripura during next 2 days and reduction thereafter.

East India:

- Light/moderate isolated to scattered rainfall with thunderstorm/lightning/gusty winds very likely over West Bengal & Sikkim, Bihar and Jharkhand during next 2 days and reduction thereafter.
- **Hailstorm** very likely at isolated places over Odisha on 27th May.

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

- ✓ **No heat wave conditions likely over any parts of the country during next 5 days.**

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Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hrs IST to 1730 hrs IST of yesterday): at most places over Jharkhand; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Madhya Pradesh, Gangetic West Bengal, Arunachal Pradesh and at isolated places over Sub-Himalayan West Bengal & Sikkim, East Madhya Pradesh, Vidarbha, Odisha, Nagaland, Manipur, Mizoram & Tripura, Lakshadweep, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands.
- ❖ **Significant rainfall recorded** (from 0830 hrs IST to 1730 hrs IST of yesterday) (in cm): Jharkhand: Jamshedpur-8; Gangetic West Bengal: Bankura-4, Purulia-3, Panagarh-2 and Shanti Niketan-1; Tamil Nadu, Puducherry & Karaikal: Salem-3; Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad: Gulmerg-1; East Uttar Pradesh: Sultanpur-1; Nagaland, Manipur, Mizoram & Tripura: Kohima-1.
- ❖ **Thunderstorm observed** (from 0830 hrs IST of yesterday to 0530 hrs IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Uttar Pradesh, Rajasthan, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Assam & Meghalaya.
- ❖ **Hailstorm observed** at isolated places over Madhya Pradesh and Jharkhand.
- ❖ **Minimum Temperature Departures (as on 26-05-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Madhya Maharashtra, Saurashtra & Kutch, and Coastal Andhra Pradesh & Yanam. They were **markedly below normal (-5.1°C or less)** at most places over West Rajasthan, at many places over West Uttar Pradesh; at a few places over Gangetic West Bengal, East Rajasthan, West Madhya Pradesh, Haryana, Chandigarh & Delhi; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Himachal Pradesh, Punjab; at a few places over Assam & Meghalaya, Uttarakhand; at isolated places over Odisha; **below normal (-1.6°C to -3.0°C)** at most places over East Uttar Pradesh; at many places over Bihar, Jharkhand; at a few places over Vidarbha, Nagaland, Manipur, Mizoram & Tripura and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 16.5°C** was reported at **Sikar (East Rajasthan)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 26-05-2023):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Nagaland, Manipur, Mizoram & Tripura and Coastal Karnataka; at a few places over Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal. They were **markedly below normal (-5.1°C or less)** at most places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; at many places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, West Rajasthan; at a few places over Himachal Pradesh, East Rajasthan and at isolated places over Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Bihar and Arunachal Pradesh; at isolated places over Chhattisgarh; **below normal (-1.6°C to -3.0°C)** at a few places over Assam & Meghalaya, Jharkhand, Gangetic West Bengal, Saurashtra & Kutch, Marathwada, Telangana and Vidarbha; at isolated places over Coastal Andhra Pradesh & Yanam and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 43.0°C** was reported at **Narsinghpur (East Madhya Pradesh)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Southwest Monsoon continues to pass through 5°N/85°E, 6.5°N/90°E, Nancowry and 10°N/98°E.
- ❖ Conditions are favourable for further advance of southwest monsoon into some more parts of south Bay of Bengal, Andaman Sea and Andaman & Nicobar Islands during next 2 days.
- ❖ 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. 82°E to the north of Lat. 23°N.
- ❖ The cyclonic circulation over north Pakistan & adjoining Jammu & Kashmir extending upto 1.5 km above mean sea level persists.
- ❖ The east-west trough from south Haryana to Sikkim across south Uttar Pradesh and south Bihar at 0.9 km above mean sea level persists.
- ❖ The north-south trough from south-east Madhya Pradesh to south Interior Karnataka across Vidarbha and north Interior Karnataka at 0.9 km above mean sea level persists.
- ❖ A trough from north Bihar to north Odisha across Jharkhand and Gangetic West Bengal at 1.5 km above mean sea level persists.
- ❖ A fresh Western Disturbance is likely to affect over Northwest India from 29th May 2023.

Weather Forecast for next 5 days (Upto 0830 hours IST of 01st June, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.

Maximum Temperatures Forecast:

- ❖ **West, Central & East India:** No Significant change in Maximum Temperatures very likely during next 2 days and rise by 2-3°C thereafter.
- ❖ No Significant change in Maximum Temperatures very likely over most parts of the country during next 5 days.

Weather Outlook for subsequent 2 days (During 01st June-03rd June, 2023)

- ❖ Scattered to Fairly widespread light/moderate rainfall with thunderstorm likely to continue over Northwest India, Northeast India, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Islands.
- ❖ Isolated to Scattered rainfall over remaining South Peninsular India and part of Northwest & East India.

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Weather Warning during next 5 days

27 May (Day 1): ♦ Heavy rainfall very likely at isolated places over Tamil Nadu and Kerala.

♦ **Hailstorm with lightning (speed 40-50 kmph)** very likely at isolated places over Odisha.

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

♦ **Squally weather (wind speed 45-55 kmph gusting to 65 kmph)** very likely over Northeast & adjoining Northwest Arabian sea along & off Gujarat coast; Gulf of Mannar, along & off Tamil Nadu coast, Lakshadweep. Fishermen are advised not to venture into these areas.

28 May (Day 2): ♦ Heavy rainfall very likely at isolated places over Rajasthan and Kerala.

♦ **Hailstorm with Thundersquall & lightning (speed 50-60 kmph)** very likely at isolated places over Rajasthan.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** likely at isolated places over West Uttar Pradesh, West Madhya Pradesh; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Chhattisgarh; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Odisha, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Karnataka.

♦ **Squally weather (wind speed 45-55 kmph gusting to 65 kmph)** likely over Gulf of Mannar, southwest Bay of Bengal, along & off Tamil Nadu coast, Lakshadweep. Fishermen are advised not to venture into these areas.

29 May (Day 3): ♦ Heavy rainfall very likely at isolated places over Rajasthan and Kerala.

♦ **Hailstorm with Thundersquall & lightning (speed 50-60 kmph)** very likely at isolated places over Rajasthan.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, West Uttar Pradesh, Chhattisgarh, Andaman & Nicobar Islands, Odisha, Konkan & Goa, Madhya Maharashtra, Marathwada, Lakshadweep, Karnataka and Telangana.

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30 May (Day 4): ♦ Thunderstorm with lightning & gusty winds (speed 30-40 kmph) likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Chhattisgarh, Andaman & Nicobar Islands, Odisha, Konkan & Goa, Madhya Maharashtra, Marathwada, Lakshadweep, Karnataka, Telangana and Rayalaseema.

31 May (Day 5): ♦ Thunderstorm with lightning & gusty winds (speed 30-40 kmph) likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Kerala & Mahe; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, south Chhattisgarh, Andaman & Nicobar Islands, south Konkan & Goa, Lakshadweep, Karnataka Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.



Table-1

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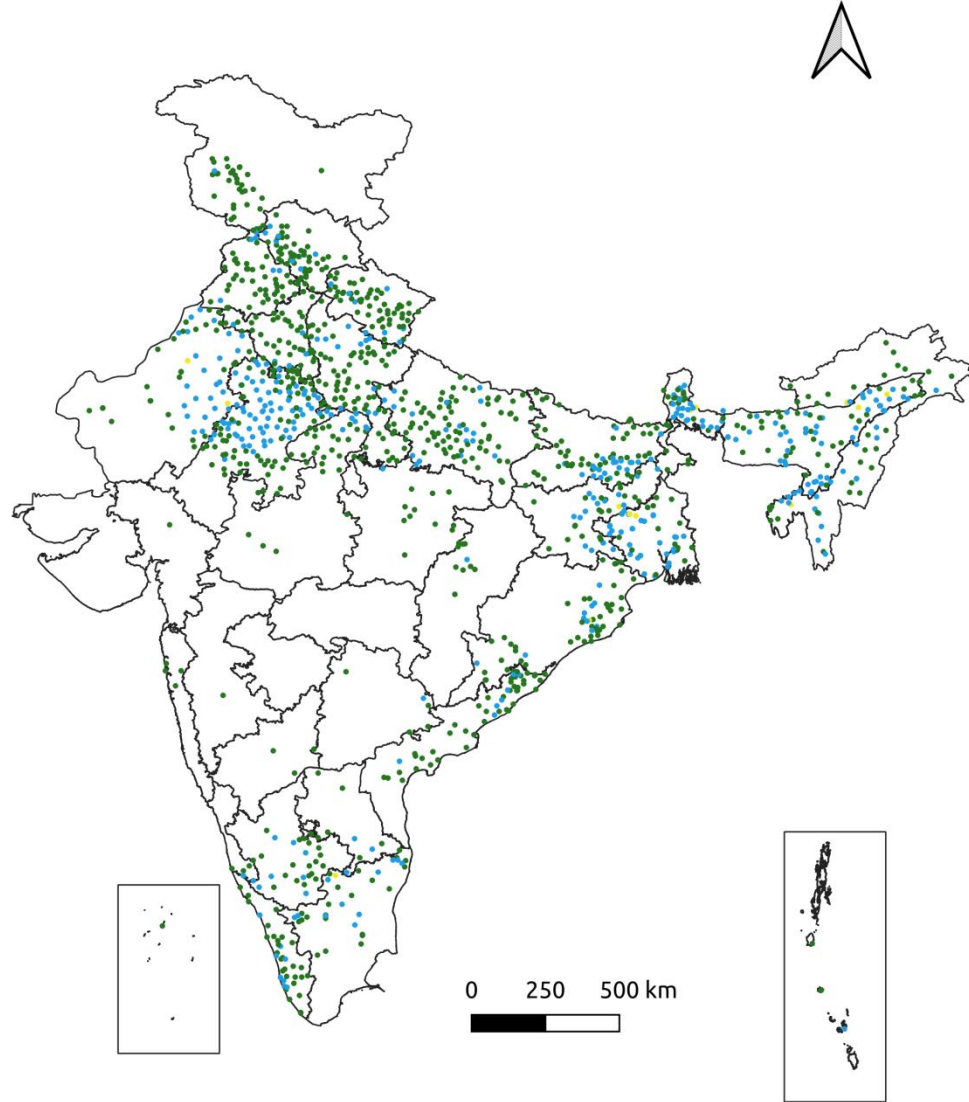
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations
during 0830 IST of 25-5-2023 to 0830 IST of 26-5-2023



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)

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Fig. 2: Maximum Temperatures Dated 26.05.2023

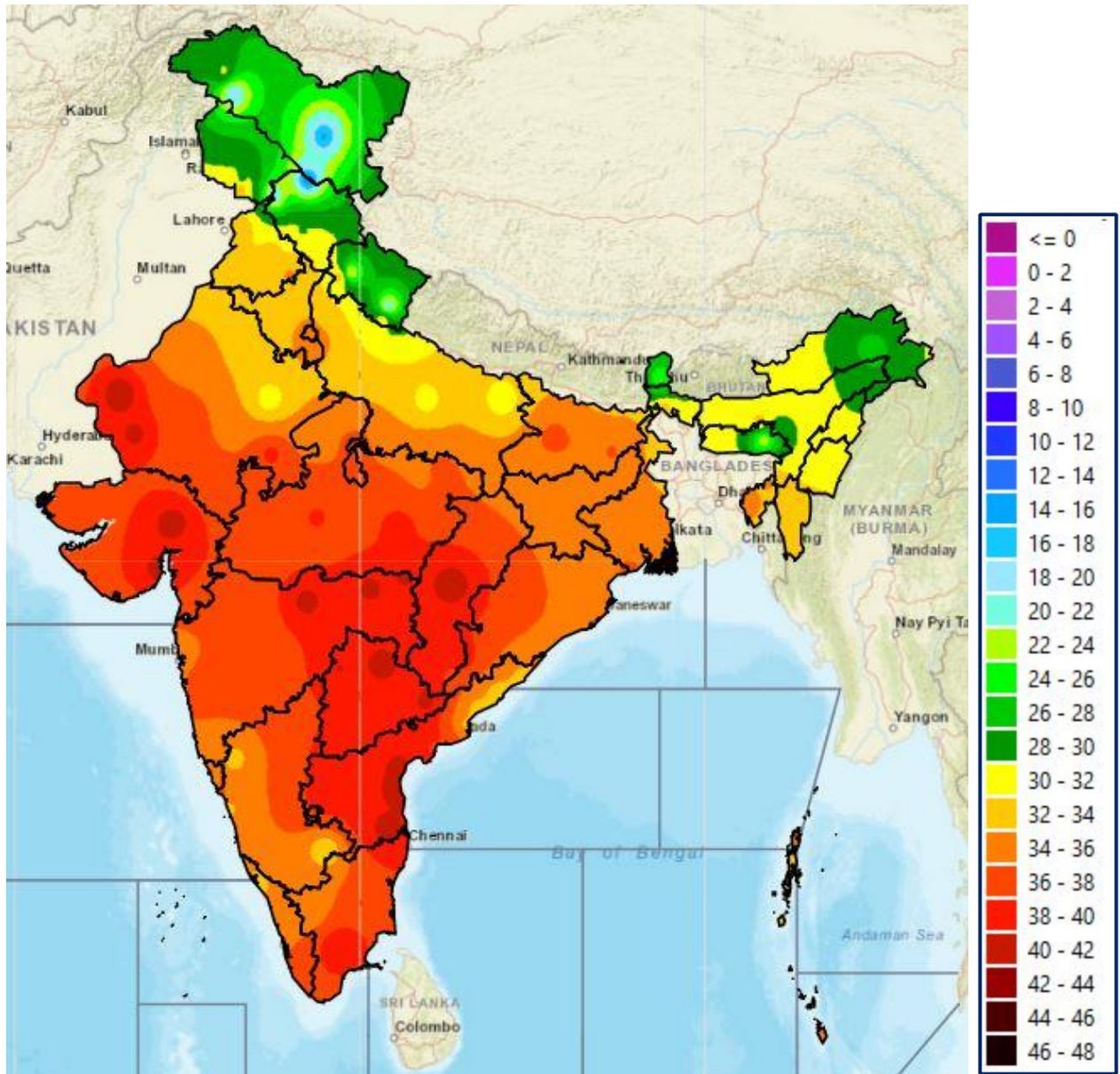


Fig. 3: Minimum Temperatures Dated 26.05.2023

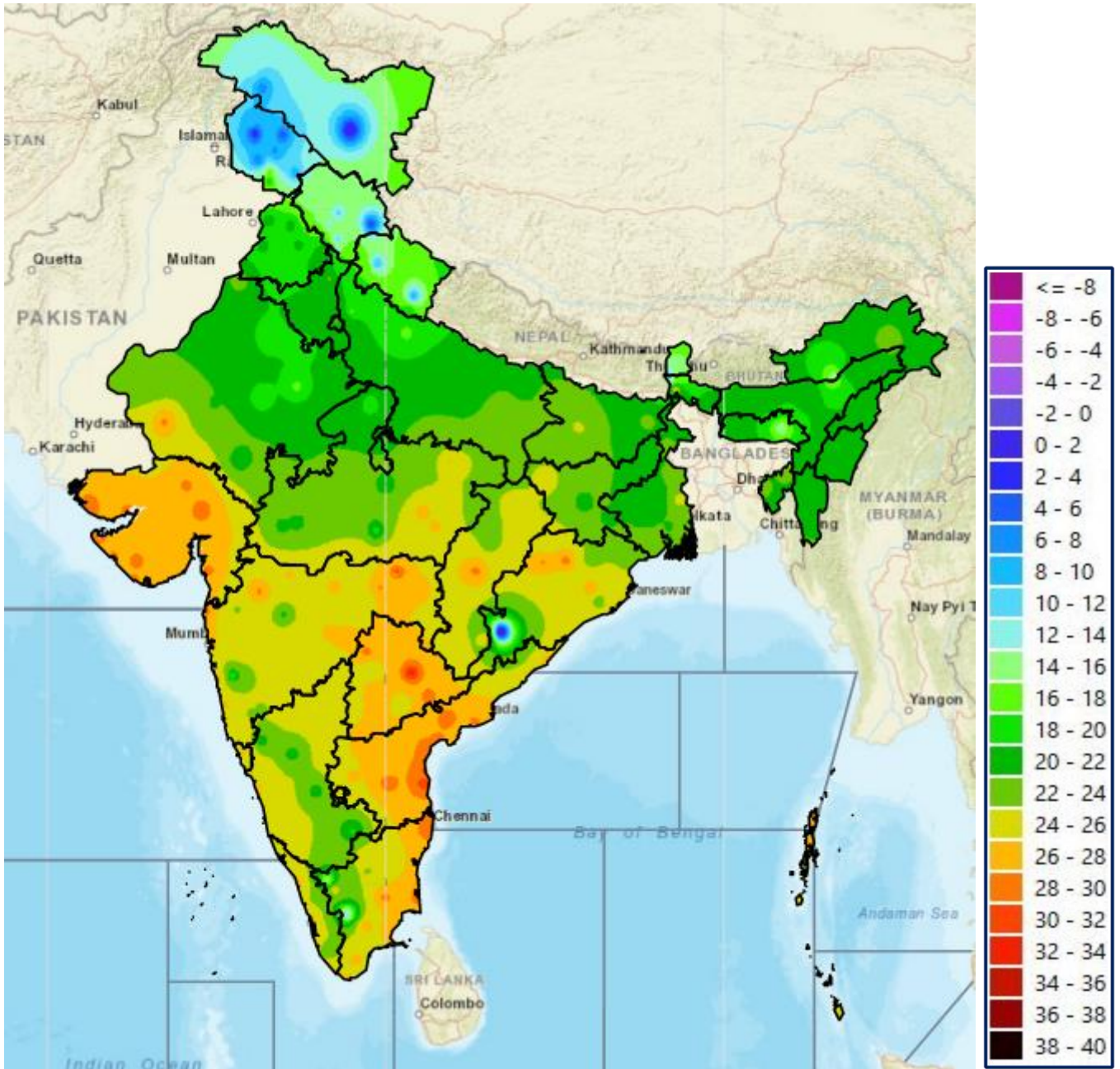


Fig. 4: Departure from Normal of Maximum Temperatures Dated 26.05.2023

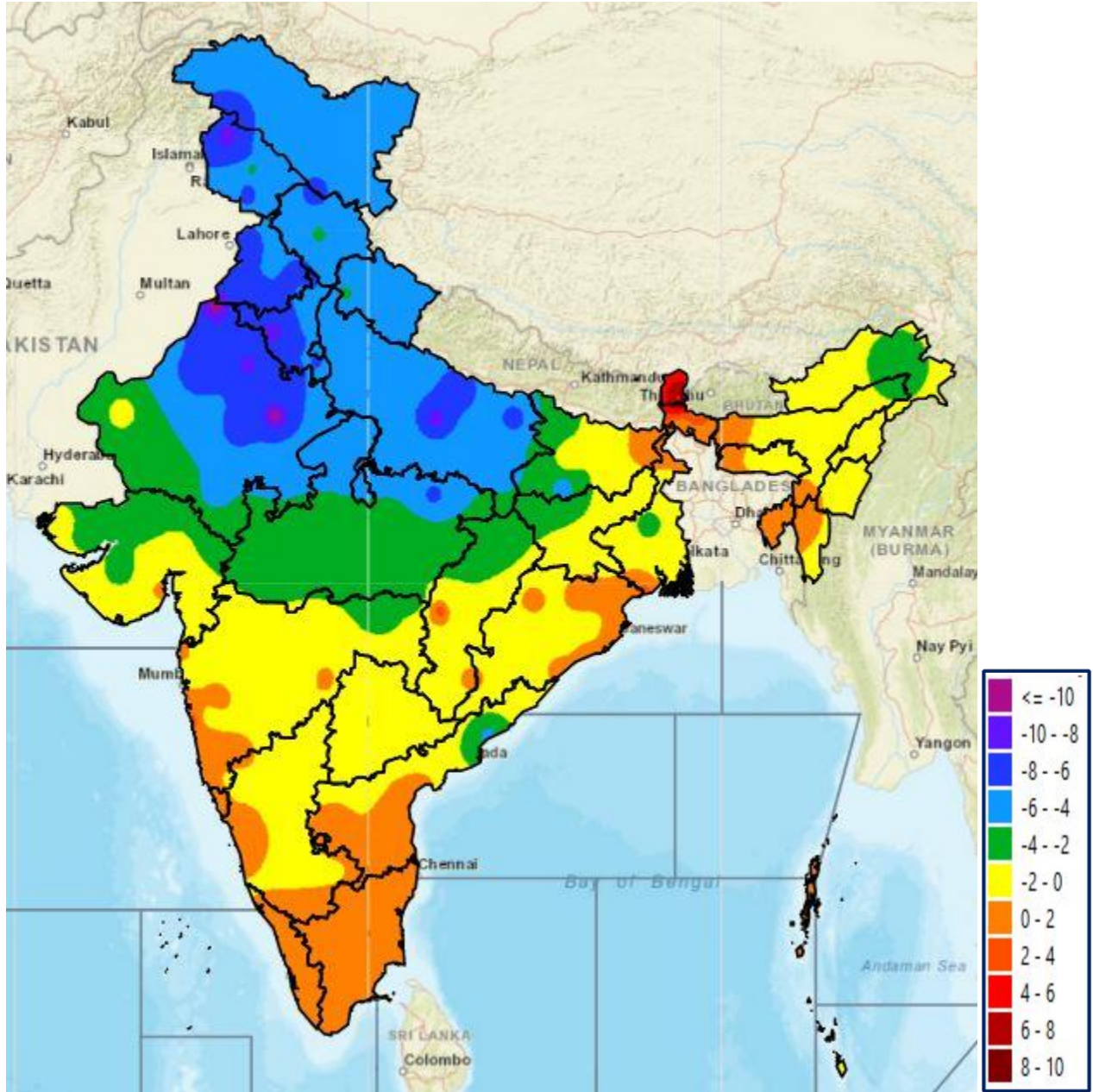
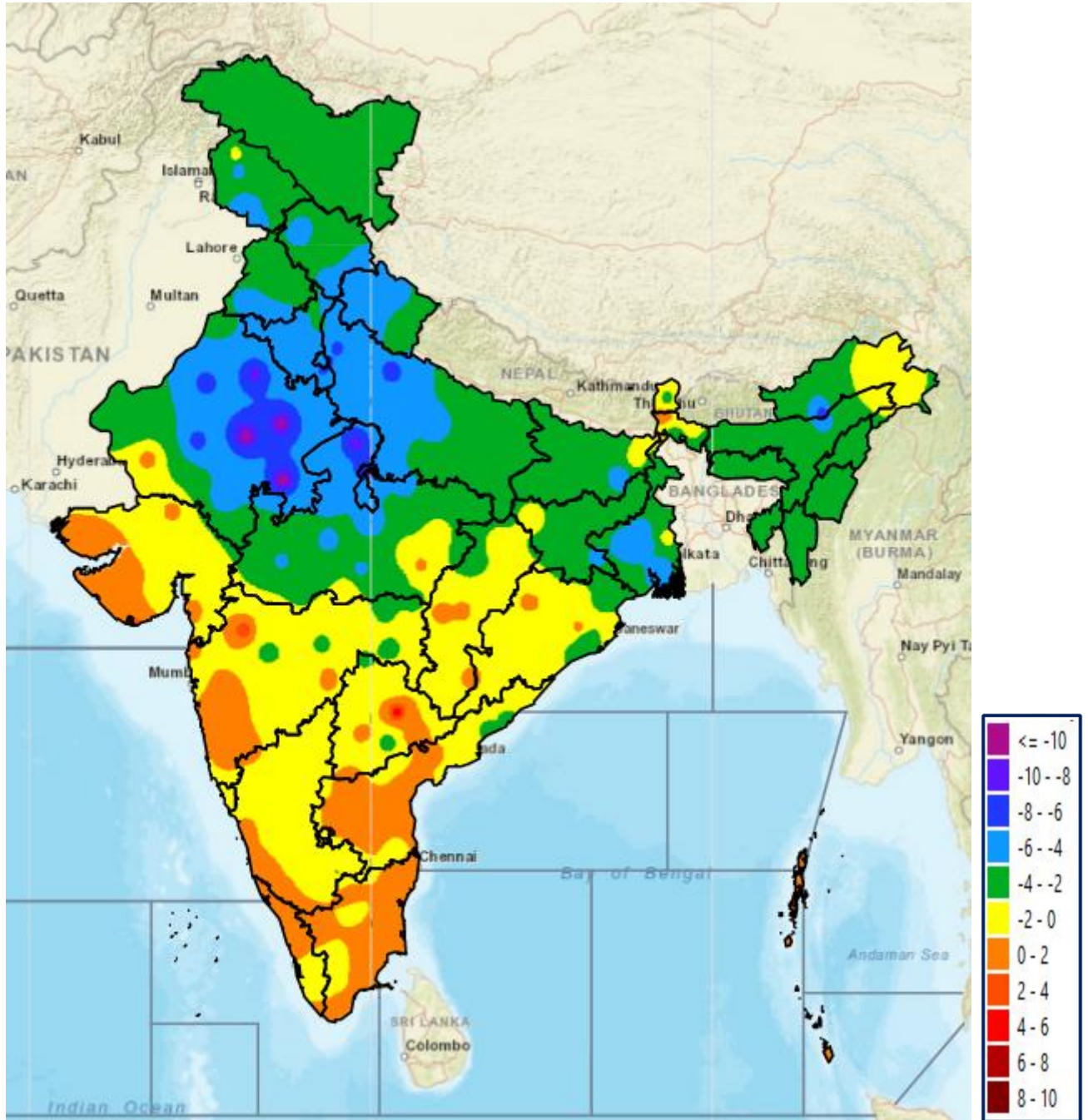


Fig. 5: Departure from Normal of Minimum Temperatures Dated 26.05.2023



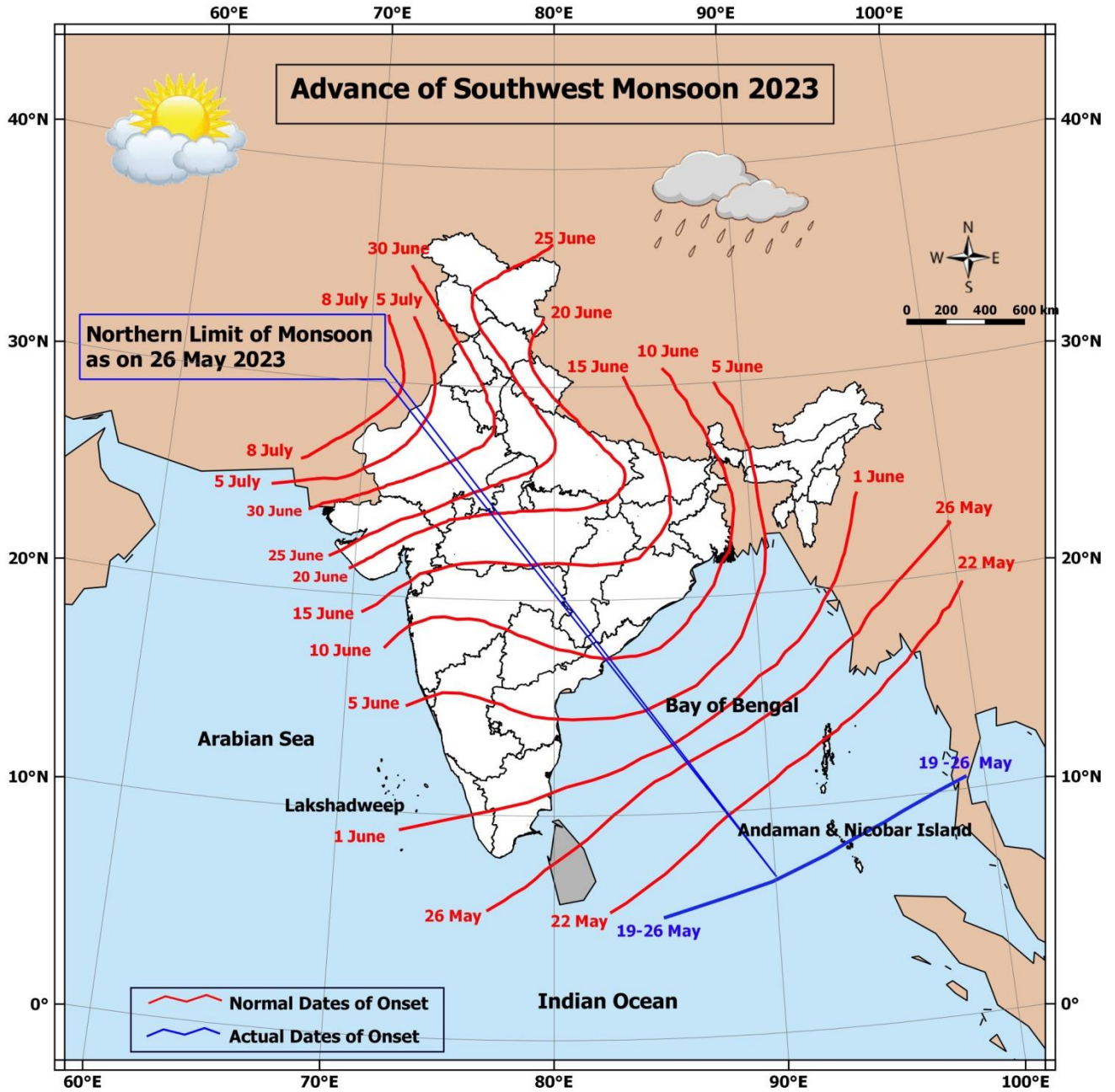
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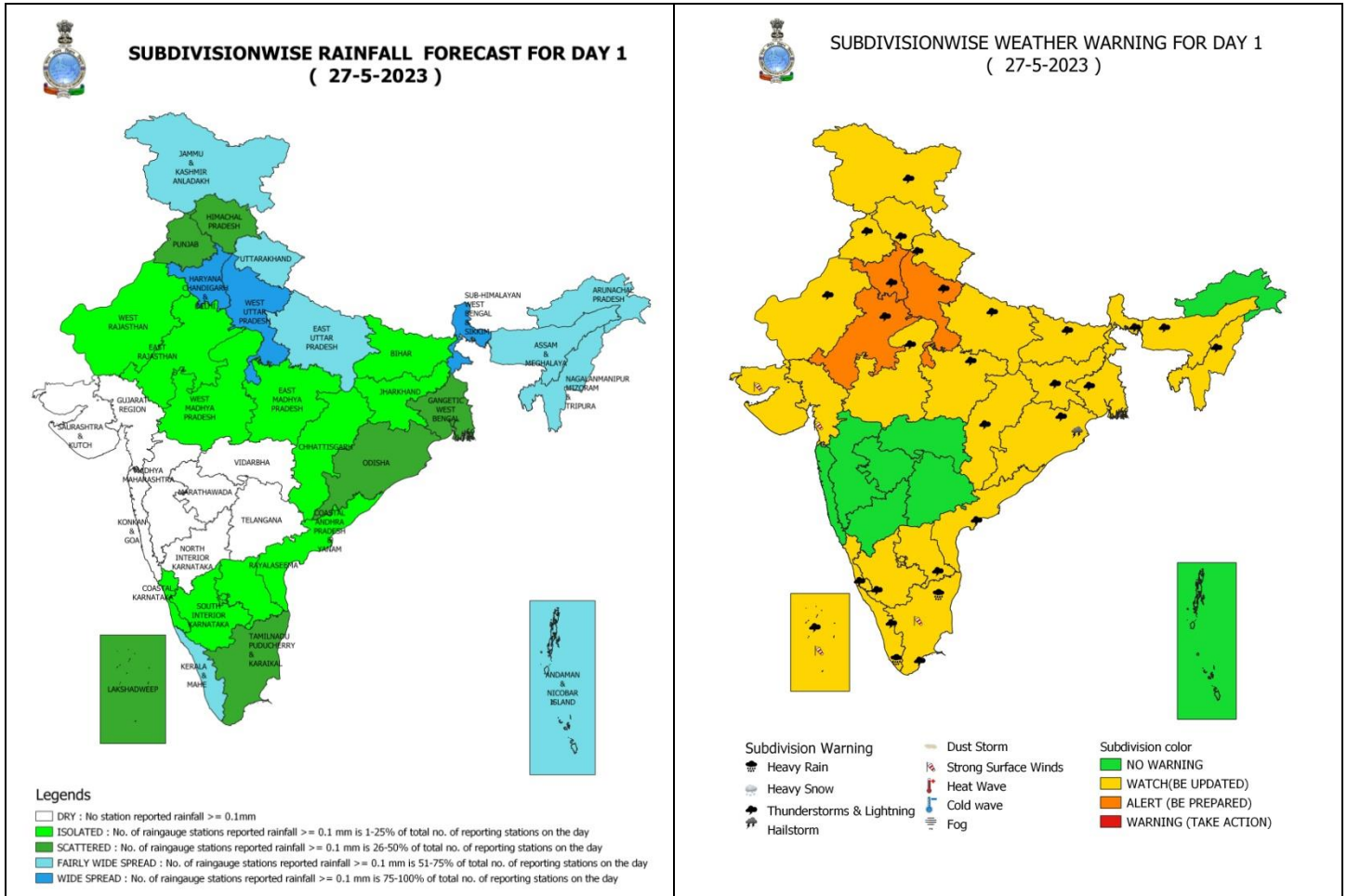
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Fig. 6: Advance of Southwest Monsoon



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27 May (Day 1): ♦ Heavy rainfall very likely at isolated places over Tamil Nadu and Kerala.

♦ **Hailstorm with lightning (speed 40-50 kmph)** very likely at isolated places over Odisha.

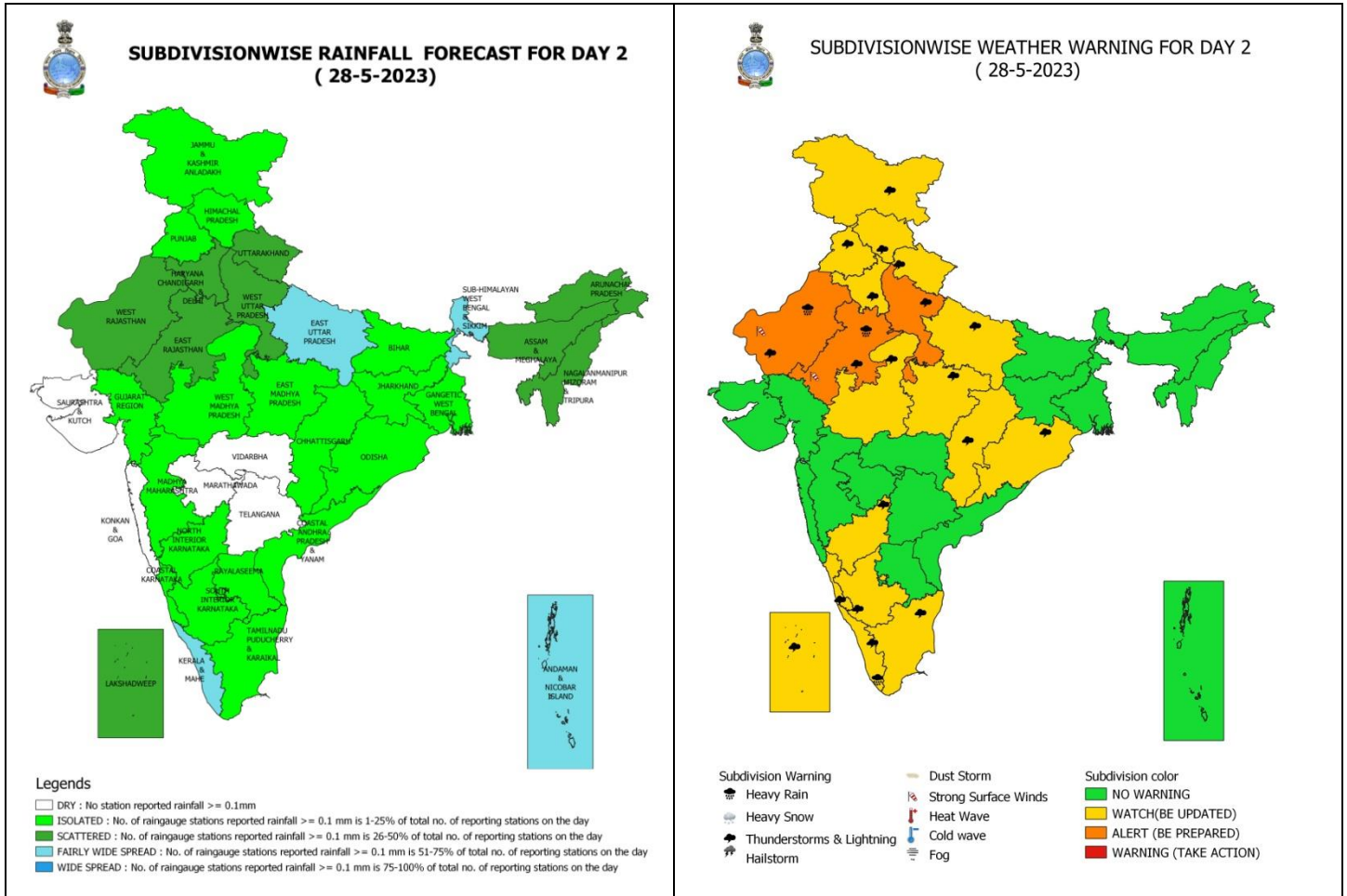
♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over West Uttar Pradesh, West Madhya Pradesh; **with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Himachal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

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28 May (Day 2): ♦ Heavy rainfall very likely at isolated places over Rajasthan and Kerala.

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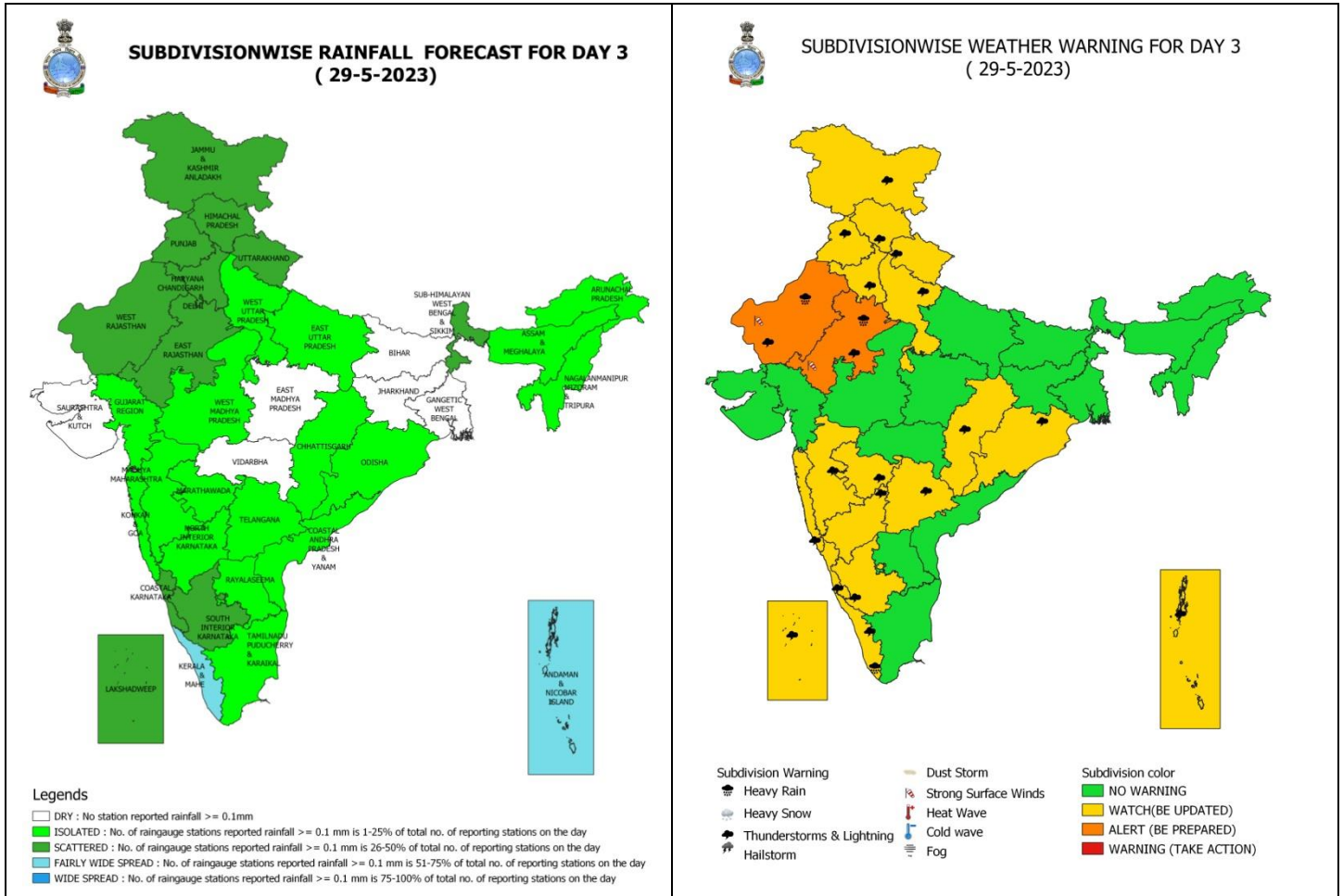
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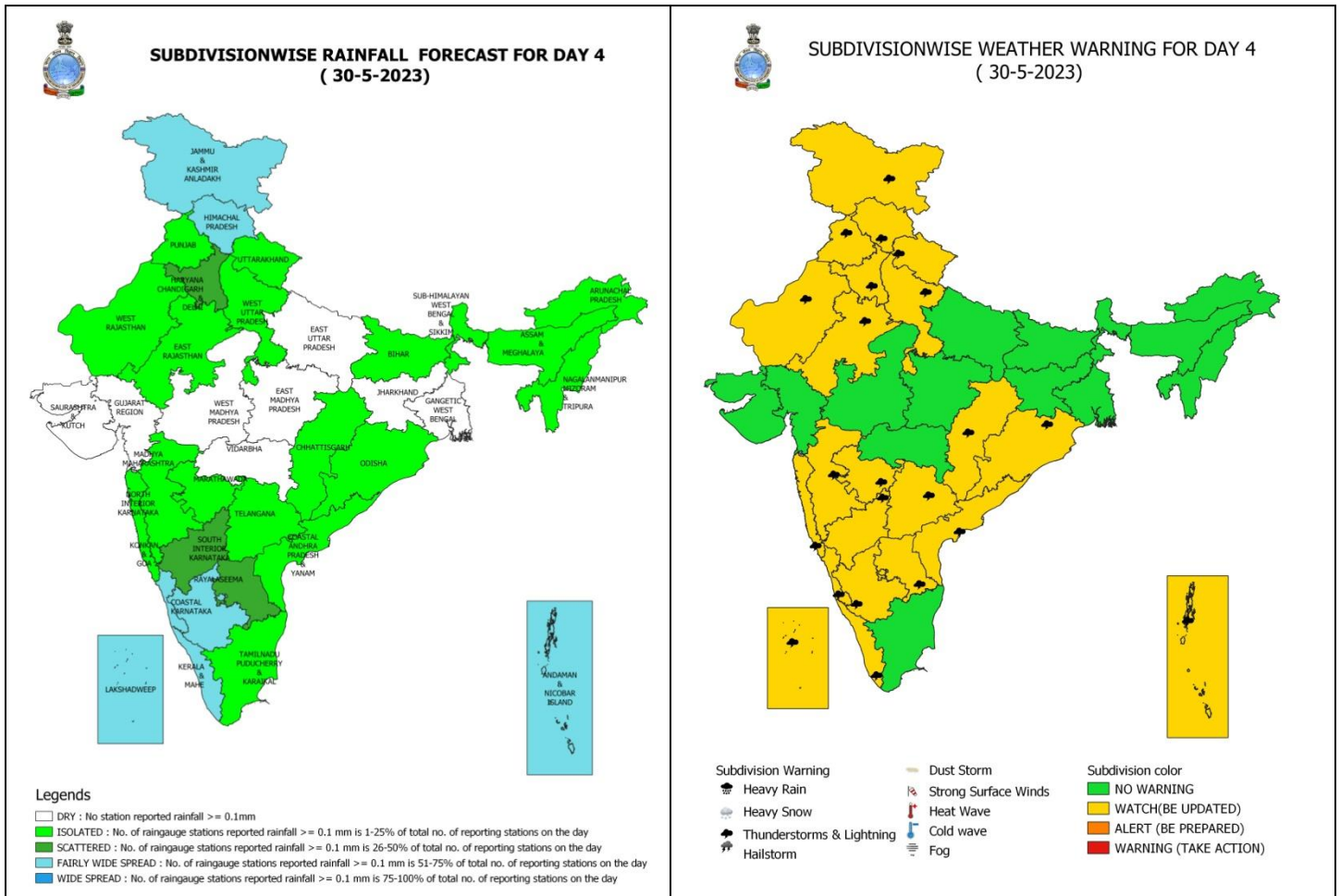
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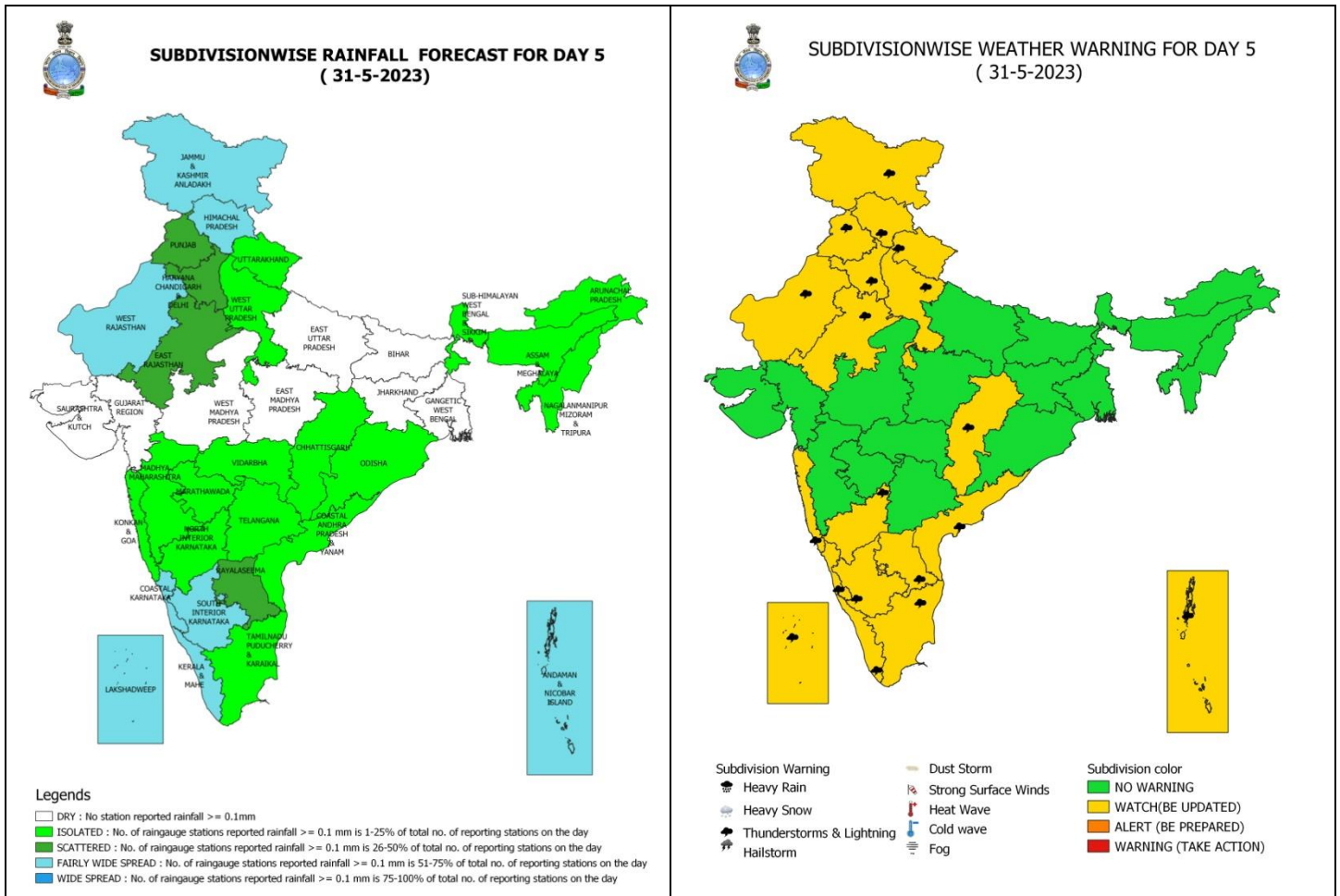


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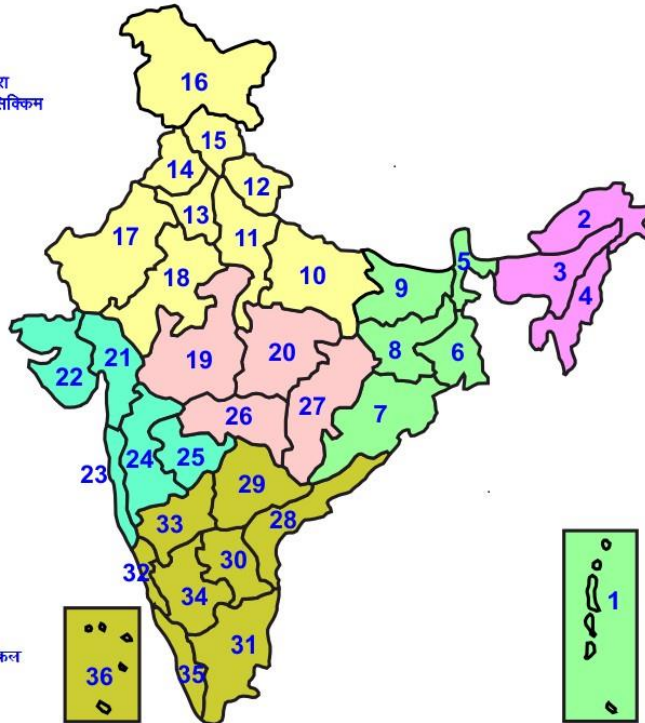
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LEGENDS

- 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 ओडिशा
- 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 एवंम 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

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

* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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

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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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