



Tuesday, May 09, 2023
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Forecast and warning in association with the Well Marked Low Pressure area over Southeast Bay of Bengal & adjoining South Andaman Sea:

- ❖ The **low pressure area** over Southeast Bay of Bengal and adjoining South Andaman Sea has become **Well Marked Low Pressure Area** over the same region at 0530 IST today, the 9th May 2023. It is very likely to intensify into a **depression** by today evening over the same region and subsequently into a **cyclonic storm** over southeast Bay of Bengal and adjoining areas of East Central Bay of Bengal and Andaman Sea on 10th May. It is likely to move initially north-northwestwards till 12th May morning. Thereafter, it is likely to recurve gradually and move north-northeastwards towards Bangladesh-Myanmar coasts.

Rainfall warning

- ❖ Light to moderate rainfall at many places with isolated heavy to very heavy rainfall is likely over Andaman & Nicobar Islands on 9th May.
- ❖ Light to moderate rainfall at most places with heavy to very heavy rainfall with extremely heavy rainfall at isolated places is likely over Andaman & Nicobar Islands during 10th to 11th May.
- ❖ Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places is likely over Andaman Islands and isolated heavy rainfall over Nicobar Islands on 12th May.

Fishermen Warning

- ❖ Fishermen, small ships, boats and trawlers are advised not to venture into southeast & adjoining central Bay of Bengal and Andaman Sea from 9th May onwards.
- ❖ Those who are over eastcentral Bay of Bengal and north Andaman Sea are advised to return by today.

Advisory

- ❖ Regulation of tourism and offshore activities and shipping near Andaman and Nicobar Islands during 9th - 12th May
- ❖ Regulation of shipping activity over the sea areas of southeast & central Bay of Bengal and Andaman Sea during 9th -12th May.

Forecast and warning over rest parts of the country during next five days:

South India:

- ❖ Thunderstorm/lightning/gusty winds with light/moderate scattered to fairly widespread rainfall very likely over Kerala & Mahe and South Interior Karnataka during next 5 days and with light isolated to scattered rainfall over rest parts of the region during next 24 hours.
- ❖ Heavy rainfall very likely at isolated places over Kerala & Mahe and South Interior Karnataka on 11th May.

Northeast India:

- ❖ Scattered to fairly widespread rainfall likely over Arunachal Pradesh & Assam & Meghalaya during next 2 days.
- ❖ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh on 09th May.

No significant weather likely over rest parts of the country.

Maximum Temperatures, its forecast and Heat Wave Warnings:

- ❖ Yesterday, Maximum Temperatures were below 40°C over most parts of the country. They were below normal by 2-4°C over most parts of the country except many parts of northeast India, west Bengal & Sikkim and Coastal Karnataka; over some parts of Bihar, Coastal Odisha, northeast Uttar Pradesh, south Konkan & Goa, where they were near normal.
- ❖ Maximum temperatures are very likely to increase by 3-5°C over most parts of the country during next 5 days.
- ❖ Due to humid air and high temperature, Hot and Discomfort weather is very likely over Konkan & Goa on 10th & 11th and coastal Odisha during 09th-12th May.
- ❖ **Heat wave conditions** very likely in isolated pockets over Gangetic West Bengal during 09th - 11th May.

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Main Weather Observations

- ❖ **Rainfall/thundershowers observed (from 0830 hrs IST to 1730 hrs IST of yesterday):** at a few places over Andaman & Nicobar Islands and Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **at isolated places** over Himachal Pradesh, East Madhya Pradesh, Madhya Maharashtra, Telangana, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Significant rainfall recorded (from 0830 hrs IST to 1730 hrs IST of yesterday)** (in cm): Kokarnag-2; Gulmarg and Medak-1 each.
- ❖ **Thunderstorm Observed (from 0830 hrs IST of yesterday to 0530 hrs IST of today):** at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttar Pradesh Sub-Himalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, Andaman & Nicobar Islands, Konkan & Goa and Kerala & Mahe.
- ❖ **Hailstorm Observed (from 0830-1730 hrs IST of yesterday):** at isolated places over Himachal Pradesh.
- ❖ **Minimum Temperature Departures (as on 08-05-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Madhya Maharashtra, Odisha, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Saurashtra & Kutch. They were **markedly below normal (-5.1°C or less)** at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Himachal Pradesh; at a few places over Haryana, Chandigarh & Delhi, Bihar and Tamil Nadu, Puducherry & Karaikal and at isolated places over Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Uttarakhand, Rajasthan, Vidarbha and Uttar Pradesh and Assam & Meghalaya and **near normal** over rest parts of the country. Yesterday, the **lowest minimum temperature of 17.0°C** was reported at **Una (Himachal Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 08-05-2023):** Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over Nagaland, Manipur, Mizoram & Tripura; **appreciably above normal (3.1°C to 5.0°C)** at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Bihar and Gangetic West Bengal; at isolated places over Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at a few places over Kerala & Mahe. They were **markedly below normal (-5.1°C or less)** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at isolated places over East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Vidarbha, Telangana and Madhya Maharashtra; at isolated places over West Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at most places over Rayalaseema; at many places over Uttarakhand, Punjab, Uttar Pradesh, Marathwada and Interior Karnataka; at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Rajasthan and **near normal** over rest parts of the country. Yesterday, the **highest maximum temperature of 42.2°C** was reported at **Daltonganj (Jharkhand)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Western Disturbance** as a **cyclonic circulation** over Jammu & adjoining Pakistan at 3.1 km above mean sea level persists. However, the **trough aloft** with its axis at 5.8 km above mean sea level now runs roughly along Long. 74°E to the north of Lat. 30°N.
- ❖ The **cyclonic circulation** over Haryana & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The **cyclonic circulation** over east Bangladesh & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The trough now runs from Southwest Bay of Bengal off north Tamil Nadu coast to **cyclonic circulation associated with the Well Marked Low Pressure Area** over Southeast Bay of Bengal & adjoining south Andaman Sea between 1.5 km & 5.8 km above mean sea level, tilting southwestwards with height.
- ❖ The **low pressure area** over Southeast Bay of Bengal and adjoining South Andaman Sea has become **Well Marked Low Pressure Area** over the same region at 0530 IST today, the 9th May 2023. It is very likely to intensify into a **depression** by today evening over the same region and subsequently into a **cyclonic storm** over southeast Bay of Bengal and adjoining areas of East Central Bay of Bengal and Andaman Sea on 10th May. It is likely to move initially north-northwestwards till 12th May morning. Thereafter, it is likely to recurve gradually and move north-northeastwards towards Bangladesh-Myanmar coasts.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan Region from 12th May, 2023.

Weather Forecast for next 5 days (Upto 0830 hours IST of 14th May, 2023)

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

Maximum Temperatures Forecast and Heat Wave Warnings:

- ❖ **Northwest India:** No significant change in Maximum temperatures likely during next 24 hours and rise by 3-5°C for subsequent 3 days.
- ❖ **Central, West & South India:** Maximum temperatures are likely to rise by 3-5°C over most parts of the region during next 5 days.
- ❖ **East India:** Maximum temperatures are likely to rise by 2-3°C over most parts of the region during next 2 days and no significant change thereafter.
- ❖ **No significant Heat wave conditions likely over most parts of India during next 5 days.**

Weather Outlook for subsequent 2 days (During 14th-16th May, 2023)

- ❖ Scattered to fairly widespread light/moderate rainfall likely to continue over northeast India, south peninsular India and Islands. Isolated light rainfall likely over parts of Northwest India.
- ❖ Isolated to Scattered rainfall/snowfall over Western Himalayan Region and isolated rainfall over adjoining plains of northwest India.
- ❖ Dry weather over rest parts of the country.

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Weather Warning during next 5 days

09 May (Day 1): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Nicobar Islands and **heavy rainfall** at isolated places over Andaman Islands and Arunachal Pradesh.

♦ **Thunderstorm with lightning & Squall (speed 60-70 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Karnataka.

♦ **Squally Wind (with wind speed reaching 50-60 kmph gusting to 70 kmph)** is likely to prevail over southeast Bay of Bengal, Andaman & Nicobar Islands and adjoining Andaman Sea. Fishermen are advised not to venture into these areas.

♦ **Heat wave conditions** very likely in isolated pockets over Gangetic West Bengal.

10 May (Day 2): ♦ **Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places** very likely over Andaman & Nicobar Islands and **heavy rainfall** at isolated places over Arunachal Pradesh, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & Squall (speed 70-80 kmph gusting to 90 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal & South Interior Karnataka.

♦ **Gale Wind (with wind speed reaching 60-70 kmph gusting to 80 kmph)** is likely to prevail over southeast and adjoining eastcentral Bay of Bengal, Andaman & Nicobar Islands and adjoining Andaman Sea. Fishermen are advised not to venture into these areas.

♦ **Heat wave conditions** very likely in isolated pockets over Gangetic West Bengal.

11 May (Day 3): ♦ **Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places** likely over Andaman & Nicobar Islands and **heavy rainfall** at isolated places over South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & Squall (speed 70-80 kmph gusting to 90 kmph)** likely at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Kerala & Mahe; **with lightning** at isolated places over South Interior Karnataka.

♦ **Gale Wind (with wind speed reaching 60-70 kmph gusting to 80 kmph)** is likely to prevail over southeast and adjoining eastcentral Bay of Bengal, Andaman & Nicobar Islands and adjoining Andaman Sea. Fishermen are advised not to venture into these areas.

♦ **Heat wave conditions** very likely in isolated pockets over Gangetic West Bengal.

12 May (Day 4): ♦ **Heavy to very heavy rainfall at isolated places** likely over Andaman Islands and **heavy rainfall** at isolated places over Nicobar Islands.

♦ **Thunderstorm with lightning & Squall (speed 70-80 kmph gusting to 90 kmph)** likely at isolated places over Andaman Islands; **with lightning** at isolated places over Kerala & Mahe and South Interior Karnataka.

♦ **Gale wind speed reaching 80-90 kmph gusting to 100 kmph** is likely over eastcentral Bay of Bengal and 60-70 kmph gusting to 80 kmph over Andaman Sea and Andaman Islands. Fishermen are advised not to venture into these areas.

13 May (Day 5): ♦ **Heavy to very heavy rainfall at isolated places** likely over Andaman Islands and **heavy rainfall** at isolated places over Nicobar Islands.

♦ **Thunderstorm with lightning & Squall (speed 70-80 kmph gusting to 90 kmph)** likely at isolated places over Andaman Islands; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Kerala & Mahe and South Interior Karnataka.

♦ **Gale wind speed reaching 80-90 kmph gusting to 100 kmph** is likely over eastcentral Bay of Bengal and 60-70 kmph gusting to 80 kmph over Andaman Sea and Andaman Islands. Fishermen are advised not to venture into these areas.

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Table-1

5 Day Rainfall Forecast

S. No.	Subdivision	09-May	10-May	11-May	12-May	13-May
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	FWS	SCT	SCT	SCT	SCT
3	ASSAM & MEGHALAYA	SCT	ISOL	ISOL	ISOL	ISOL
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	ISOL	ISOL	ISOL	ISOL	ISOL
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	DRY	DRY	DRY	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	ISOL
15	HIMACHAL PRADESH	ISOL	DRY	DRY	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	ISOL	DRY	DRY	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	ISOL
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY
21	GUJARAT REGION	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	DRY	DRY	DRY
25	MARATHAWADA	ISOL	DRY	DRY	DRY	DRY
26	VIDARBHA	ISOL	DRY	DRY	DRY	DRY
27	CHHATTISGARH	ISOL	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	DRY	DRY	DRY
29	TELANGANA	ISOL	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL	ISOL	ISOL	DRY	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	FWS	FWS	SCT	SCT	SCT
33	NORTH INTERIOR KARNATAKA	SCT	SCT	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	FWS	SCT	SCT
35	KERALA & MAHE	FWS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	SCT	SCT	SCT	SCT	SCT

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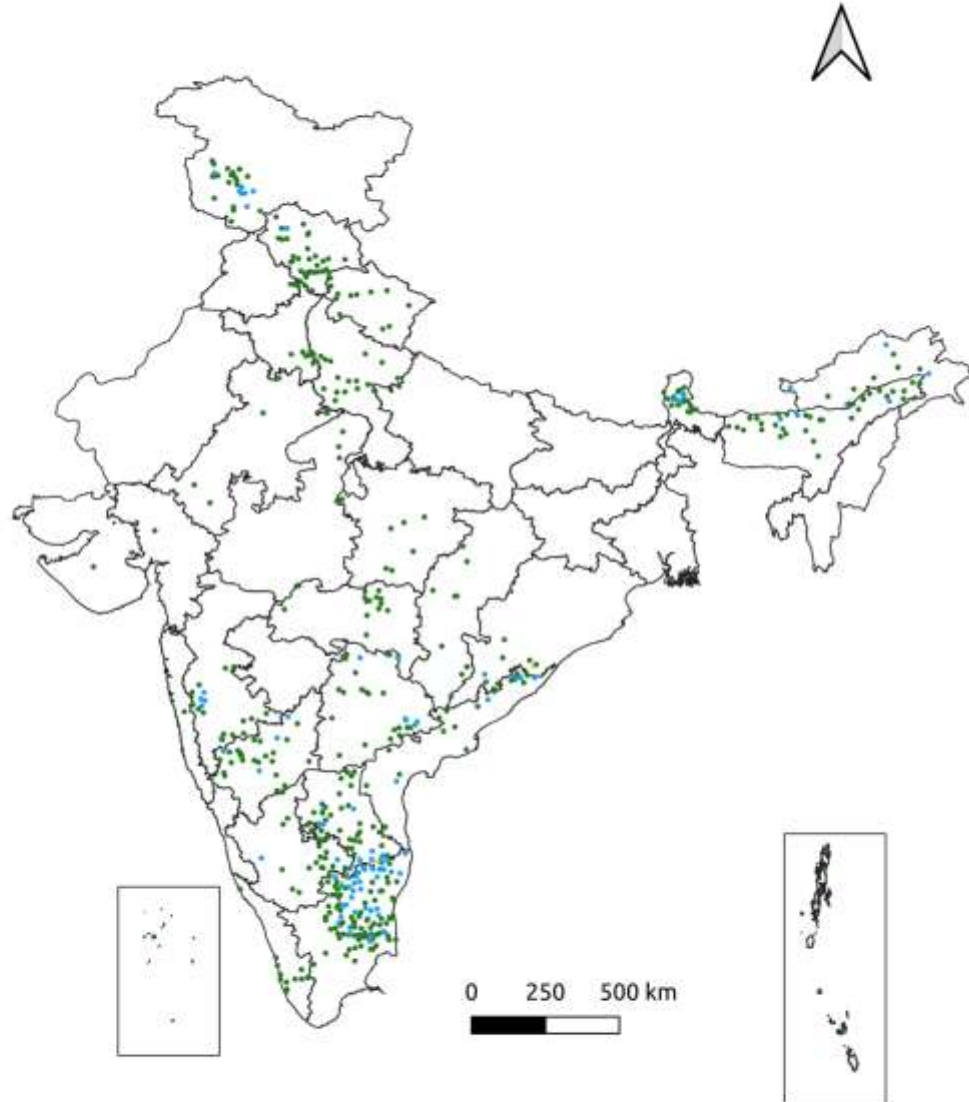
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations
during 0830 IST of 7-5-2023 to 0830 IST of 8-5-2023



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 08.05.2023

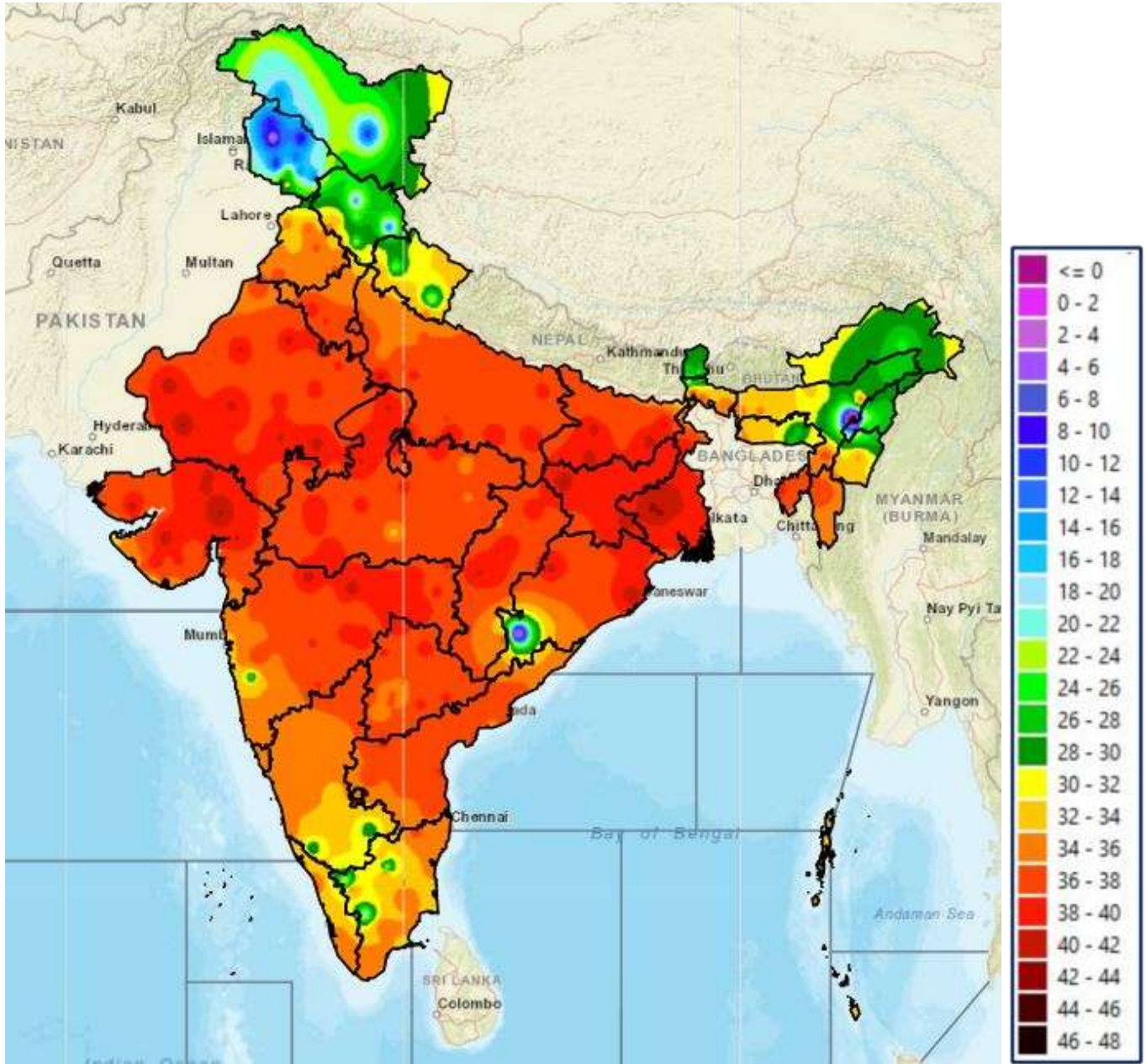
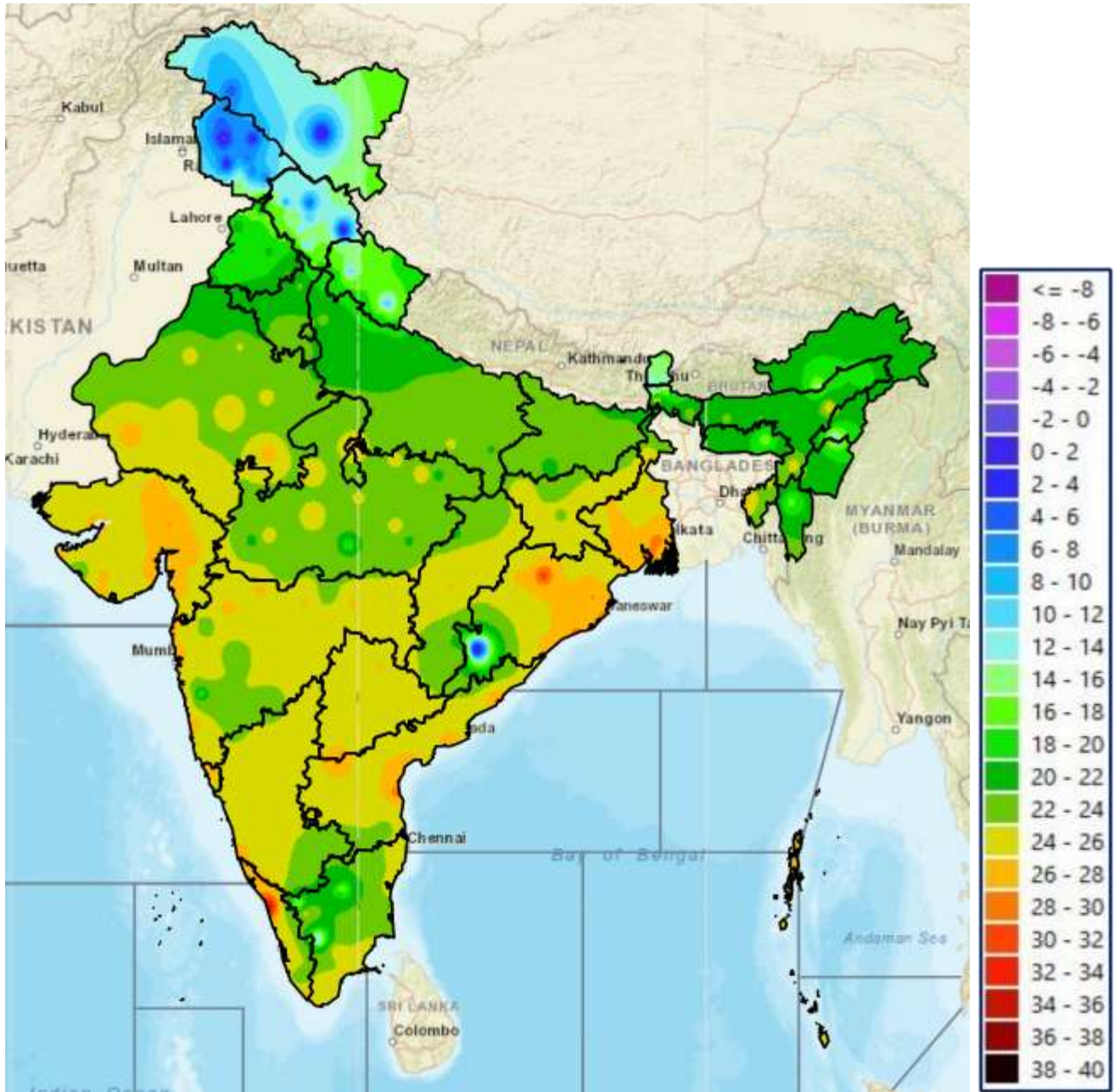




Fig. 3: Minimum Temperatures Dated 08.05.2023



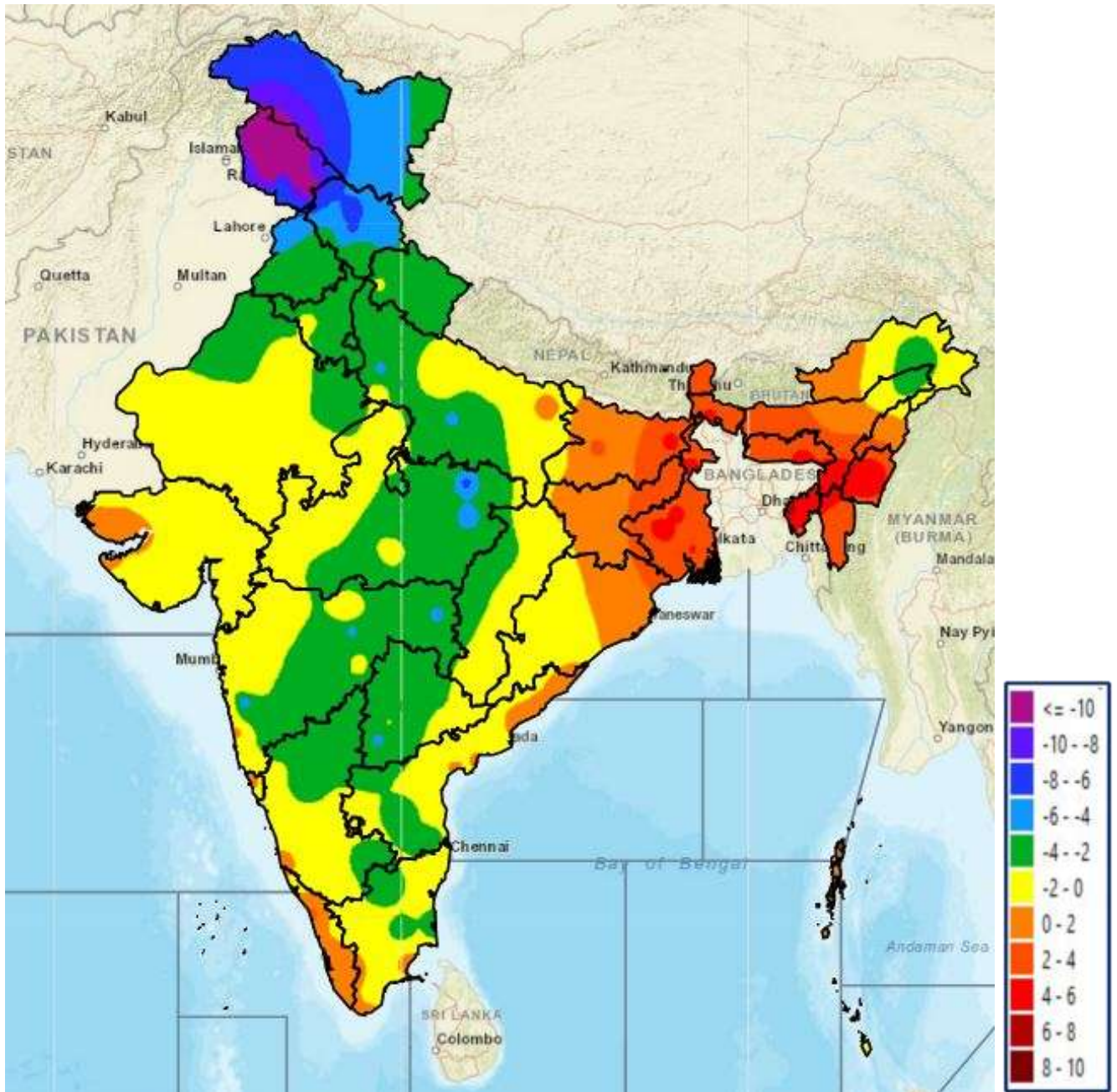
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Fig. 4: Departure from Normal of Maximum Temperatures Dated 08.05.2023



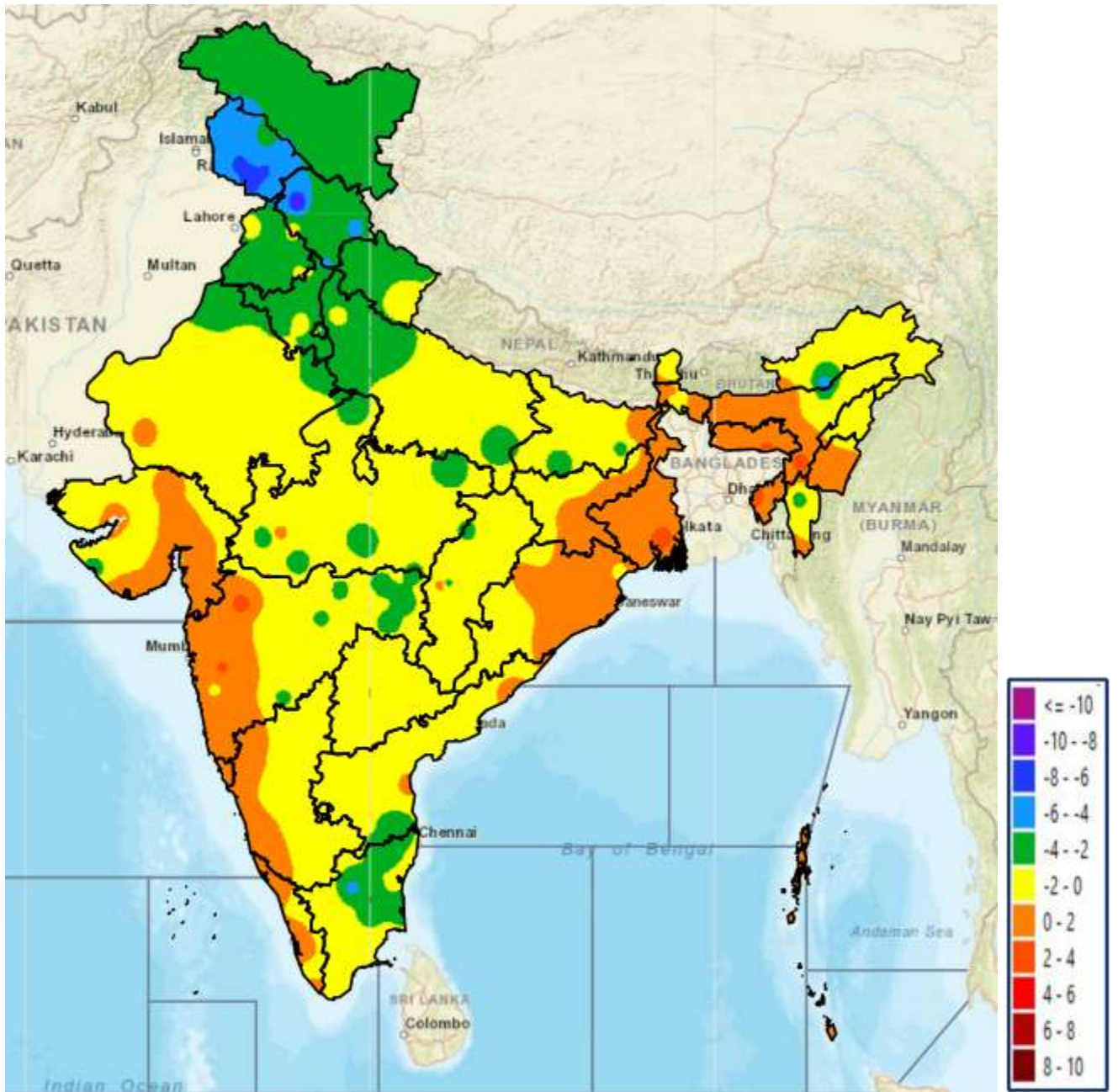
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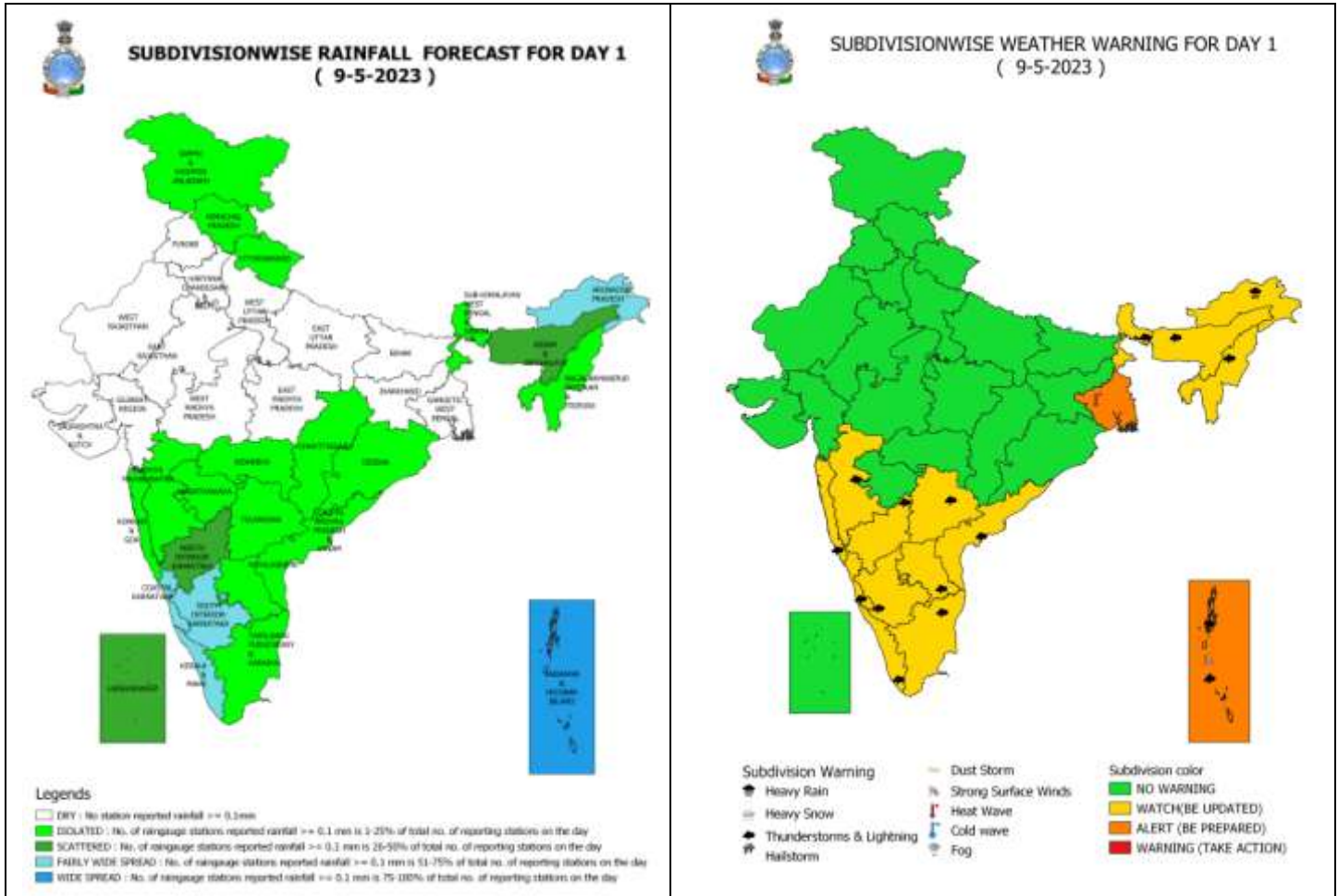
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Fig. 5: Departure from Normal of Minimum Temperatures Dated 08.05.2023



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09 May (Day 1): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Nicobar Islands and **heavy rainfall** at isolated places over Andaman Islands and Arunachal Pradesh.

♦ **Thunderstorm with lightning & Squall (speed 60-70 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **with lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Karnataka.

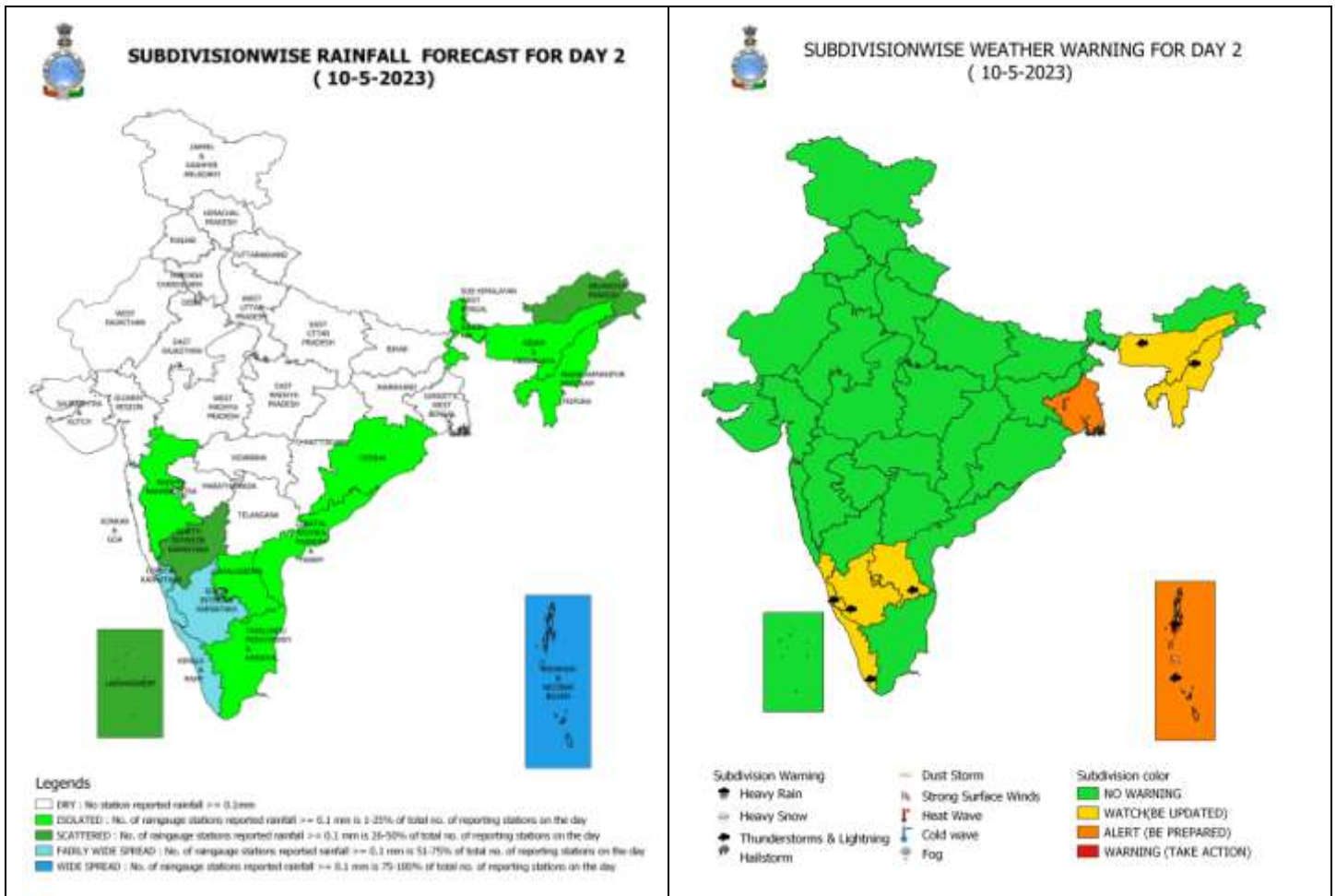
♦ **Squally Wind (with wind speed reaching 50-60 kmph gusting to 70 kmph)** is likely to prevail over southeast Bay of Bengal, Andaman & Nicobar Islands and adjoining Andaman Sea. Fishermen are advised not to venture into these areas.

♦ **Heat wave conditions** very likely in isolated pockets over Gangetic West Bengal.

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10 May (Day 2): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Andaman & Nicobar Islands and heavy rainfall at isolated places over Arunachal Pradesh, South Interior Karnataka and Kerala & Mahe.

♦ Thunderstorm with lightning & Squall (speed 70-80 kmph gusting to 90 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal & South Interior Karnataka.

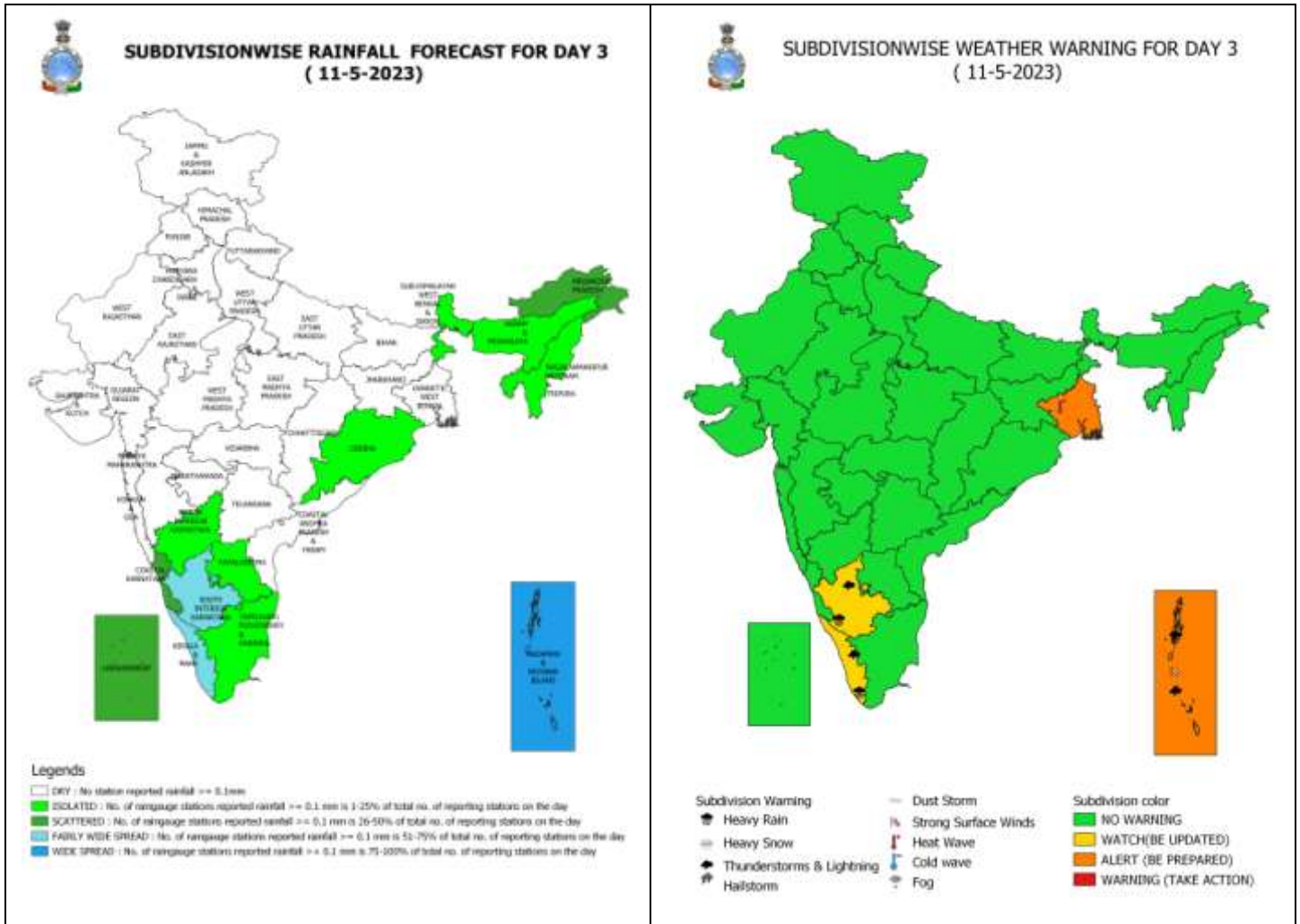
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11 May (Day 3): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places likely over Andaman & Nicobar Islands and heavy rainfall at isolated places over South Interior Karnataka and Kerala & Mahe.

♦ Thunderstorm with lightning & Squall (speed 70-80 kmph gusting to 90 kmph) likely at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed 30-40 kmph) at isolated places over Kerala & Mahe; with lightning at isolated places over South Interior Karnataka.

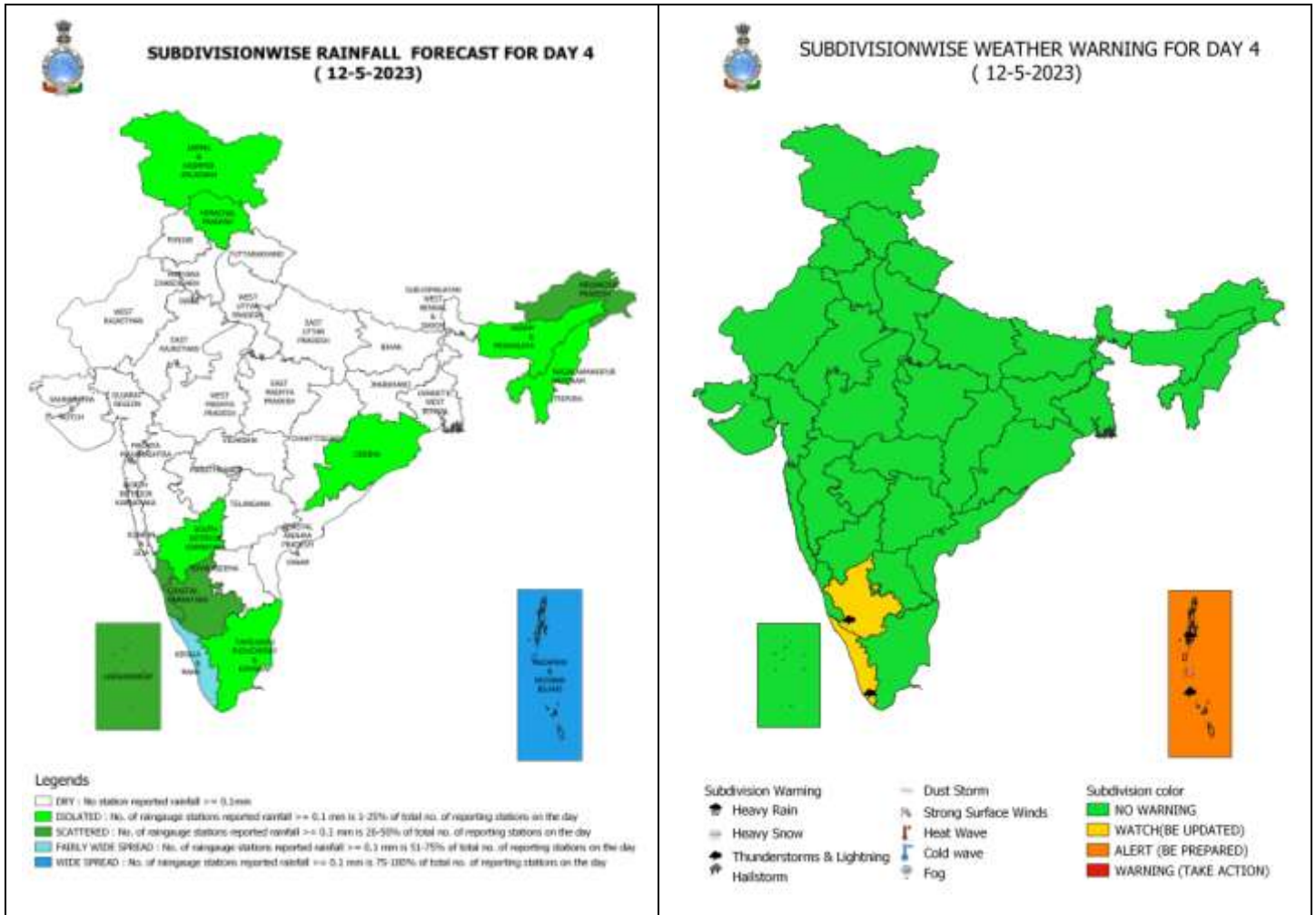
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12 May (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Andaman Islands and heavy rainfall at isolated places over Nicobar Islands.

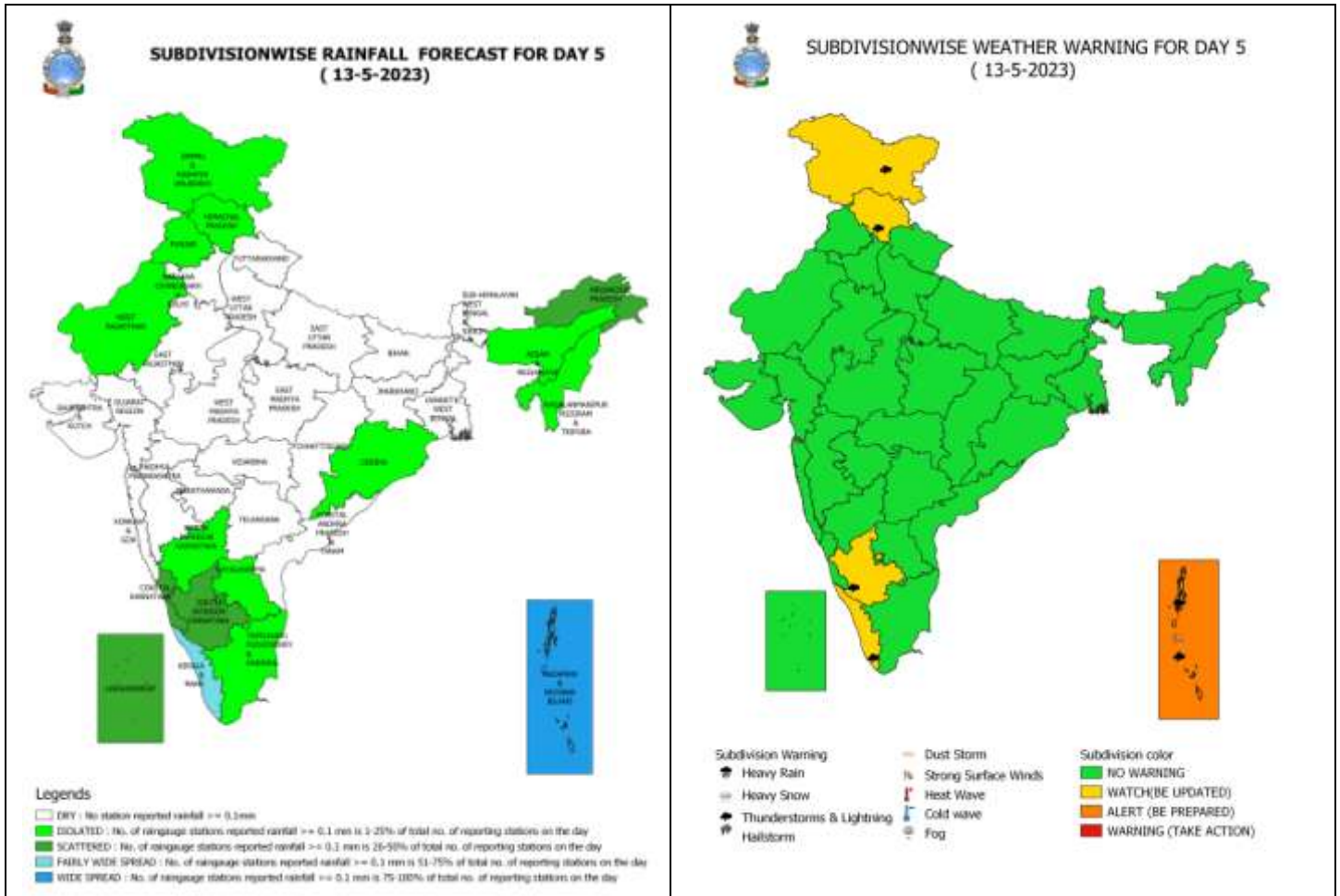
♦ Thunderstorm with lightning & Squall (speed 70-80 kmph gusting to 90 kmph) likely at isolated places over Andaman Islands; with lightning at isolated places over Kerala & Mahe and South Interior Karnataka.

♦ Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely over eastcentral Bay of Bengal and 60-70 kmph gusting to 80 kmph over Andaman Sea and Andaman Islands. Fishermen are advised not to venture into these areas.

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13 May (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Andaman Islands and heavy rainfall at isolated places over Nicobar Islands.

♦ Thunderstorm with lightning & Squall (speed 70-80 kmph gusting to 90 kmph) likely at isolated places over Andaman Islands; with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Kerala & Mahe and South Interior Karnataka.

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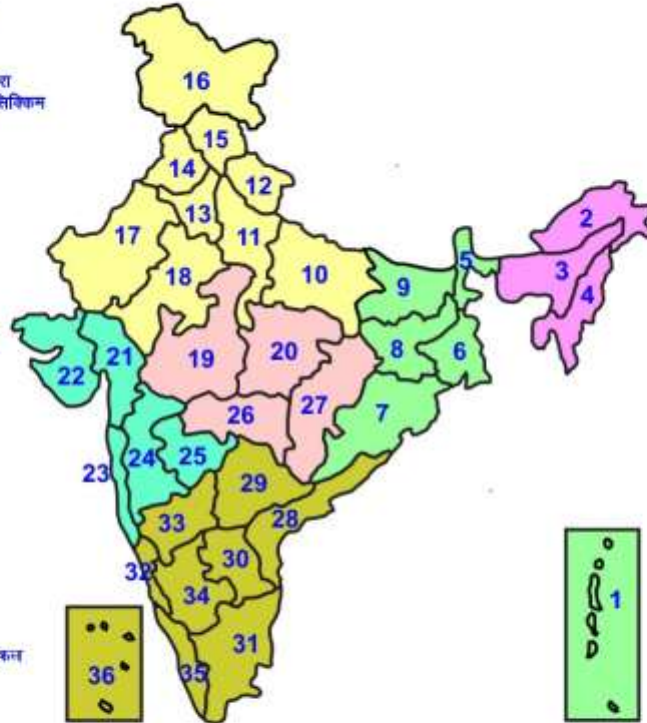
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 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 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 राष्ट्रीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसेमा
- 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

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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