



Sunday, May 14, 2023
Time of Issue: 2100 hours IST
(NIGHT)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Extremely Severe Cyclonic Storm "Mocha" weakened into a very severe cyclonic storm over Myanmar

- ❖ The **Extremely Severe Cyclonic Storm "Mocha"** (pronounced as "**Mokha**") over coastal Myanmar moved north-northeastwards with a speed of 26 kmph during past 6 hours, weakened into a Very Severe Cyclonic Storm and lay centred at 1730 hours IST of today, the 14th May over Myanmar near latitude 21.1°N and longitude 93.3°E about 120 km north-northeast of Sittwe (Myanmar), 160 km of west of Nyaung-U (Myanmar), 360 km northwest of Nay Pyi Taw (Myanmar) and 140 km east-southeast of Cox's Bazar (Bangladesh). The system is continuing the weakening trend and will become a cyclonic storm during next 6 hours.

Warnings:

Rainfall warning

- ❖ **Mizoram:** Rainfall at most places with heavy to very heavy rainfall at isolated places on 14th May.
- ❖ **Nagaland, Manipur & south Assam:** Rainfall at many places with Heavy rainfall at isolated places on 14th May.

Fishermen Warning

- ❖ Fishermen, ships, boats and trawlers are advised not to venture into northeast Bay of Bengal, eastcentral and adjoining westcentral Bay of Bengal and north Andaman Sea on 14th May.
- ❖ Those over northeast & central Bay of Bengal and north Andaman Sea are advised to return to coast.

Forecast and warning over rest parts of the country during next 5 days:

Northeast India:

- ❖ Light/moderate fairly widespread to widespread rainfall very likely over Northeast India during next 05 days.
- ❖ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh on 14th to 16th; over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 14th to 18th May.
- ❖ Isolated **very heavy falls** also likely over Assam & Meghalaya on 15th, 16th & 18th and over Nagaland, Manipur, Mizoram & Tripura during 14th to 17th May, 2023.

No significant weather likely over rest parts of the country.

Maximum Temperatures, its Forecast and Heat Wave Warnings:

- ❖ Maximum temperatures are very likely to rise by 2-4°C over many parts of east India during next 3 days and no significant change thereafter; to rise by 2-3°C over many parts of south India during next 5 days; fall by about 2°C over Northwest India during next 3 days and no significant change thereafter; fall by about 2-3°C over Gujarat during next 5 days and no significant change over rest parts of India.
- ❖ Heat wave in isolated pockets is very likely over West Madhya Pradesh and Vidarbha on today; Odisha during 15th to 17th and Gangetic West Bengal on 16th May.
- ❖ Due to humid air and high temperature, Hot and Discomfort weather is very likely over Konkan and Gujarat coast today.

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Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hrs IST to 1730 hrs IST of today): **at a few places** over Nagaland, Manipur, Mizoram & Tripura; **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Assam & Meghalaya.
- ❖ **Significant rainfall recorded** (from 0830 hrs IST to 1730 hrs IST of today) (in cm): **Manipur:** Imphal-1; **Jammu & Kashmir:** Batote-1.
- ❖ **Thunderstorm observed** (from 0830 hrs IST to 1730 hrs IST of today): at isolated pockets over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Rajasthan and Sub-Himalayan West Bengal & Sikkim.
- ❖ Today, **Heat wave conditions** prevailed in isolated parts of Vidarbha.
- ❖ **Minimum Temperature Departures (as on 14-05-2023):** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at many places over West Rajasthan, Punjab, Andaman & Nicobar Islands; at a few places over Bihar, Andhra Pradesh & Yanam; at isolated places over Gujarat state, West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal. They are **appreciably below normal (-3.1°C to -5.0°C)** at many places over East Madhya Pradesh, Telangana; at a few places over Vidarbha, Chhattisgarh; at isolated places over North Interior Karnataka; **below normal (-1.6°C to -3.0°C)** at a few places over Uttar Pradesh, West Madhya Pradesh and near normal over rest parts of the country. Today, **the lowest minimum temperature** of 17.4°C is reported at **Malanjkhanda (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 14-05-2023):** Maximum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Gujarat State, Bihar, Odisha, Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at many places over West Madhya Pradesh, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Vidarbha; at a few places over East Uttar Pradesh, Gangetic West Bengal, Kerala & Mahe, Punjab, Himachal Pradesh; at isolated places over East Madhya Pradesh, West Rajasthan. They are **appreciably below normal (-3.1°C to -5.0°C)** at many places over Nagaland, Manipur, Mizoram & Tripura; **below normal (-1.6°C to -3.0°C)** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Assam & Meghalaya and near normal over rest parts of the country. Today, **the highest maximum temperature** of 45.7°C was reported at **Jhansi (West Uttar Pradesh)**.

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Meteorological Analysis (Based on 1730 hours IST)

- ❖ The **Extremely Severe Cyclonic Storm "Mocha"** (pronounced as "**Mokha**") over coastal Myanmar moved north-northeastwards with a speed of 26 kmph during past 6 hours, weakened into a Very Severe Cyclonic Storm and lay centred at 1730 hours IST of today, the 14th May over Myanmar near latitude 21.1°N and longitude 93.3°E about 120 km north-northeast of Sittwe (Myanmar), 160 km of west of Nyaung-U (Myanmar), 360 km northwest of Nay Pyi Taw (Myanmar) and 140 km east-southeast of Cox's Bazar (Bangladesh). The system is continuing the weakening trend and will become a cyclonic storm during next 6 hours.
- ❖ The **Western Disturbance** as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 73°E to the north of Lat. 32°N.
- ❖ The **cyclonic circulation** over south Haryana & neighbourhood at 0.9 km above mean sea level persists.
- ❖ A fresh Western Disturbance is likely to affect Northwest India from the night of 17th May, 2023.

Weather Forecast for next 5 days (Upto 0830 hours IST of 19th 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:** Maximum temperatures are likely to fall by about 2°C over most parts of the region during next 3 days and no significant change thereafter.
- ❖ **East India:** Maximum temperatures are likely to rise by 2-3°C over most parts of the region during next 3 days and no significant change thereafter.
- ❖ **South India:** Gradually rise in maximum temperatures are likely by 2-3°C over most parts of the region during next 5 days.
- ❖ **West India:** Fall in maximum temperatures over Gujarat by 2-3°C during next 5 days.
- ❖ No significant change in Maximum temperatures likely over rest parts of the country.

Weather Outlook for subsequent 2 days (During 19th-21st May, 2023)

- ❖ Scattered to fairly widespread light/moderate rainfall likely to continue over northeast India and Islands.
- ❖ Isolated to Scattered rainfall/snowfall over Western Himalayan Region and isolated rainfall over plains of northwest & east India, Kerala and Tamil Nadu.
- ❖ Dry weather over rest parts of the country.
- ❖ Heat wave conditions likely in isolated pockets over East India.

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Weather Warning during next 5 days

14 May (Day 1): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Arunachal Pradesh and Assam.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over South Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Bengal & Sikkim, Coastal Karnataka and Lakshadweep.

♦ **Hailstorm with thunderstorm, lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Uttarakhand.

♦ **Heat wave conditions** very likely in isolated pockets over West Madhya Pradesh, Vidarbha.

♦ **Dust Storm/Thunderstorm with gusty winds (speed 30-40 kmph)** very likely in isolated pockets over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan.

♦ **Gale Wind with wind speed 60-80 kmph gusting to 90 kmph** very likely over Northeast Bay of Bengal.

♦ **Squally Wind with wind speed 45-55 kmph gusting to 65 kmph** very likely over Eastcentral Bay of Bengal.

♦ **Squally Wind with wind speed 50-60 kmph gusting to 70 kmph** very likely over Tripura, Mizoram & Manipur.

15 May (Day 2): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya; **heavy rainfall** at isolated places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over South Interior Karnataka; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, West Bengal & Sikkim and Kerala & Mahe.

♦ **Heat wave conditions** very likely in isolated pockets over Odisha, Vidarbha and Coastal Andhra Pradesh & Yanam.

♦ **Dust Storm/Thunderstorm with gusty winds (speed 30-40 kmph)** very likely in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, Rajasthan.

16 May (Day 3): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya; **heavy rainfall** at isolated places over Arunachal Pradesh.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Uttar Pradesh, West Bengal & Sikkim; **with lightning** at isolated places over Himachal Pradesh, Punjab, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh and Kerala & Mahe.

♦ **Heat wave conditions** very likely in isolated pockets over Gangetic West Bengal, Odisha and Coastal Andhra Pradesh & Yanam.

♦ **Dust Storm/Thunderstorm with gusty winds (speed 40-50 kmph)** very likely in isolated pockets over Rajasthan.

17 May (Day 4): ♦ ♦ **Heavy to very heavy rainfall** likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Assam & Meghalaya, Gangetic West Bengal and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Punjab, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim; **with lightning** at isolated places over Himachal Pradesh, East Madhya Pradesh, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.

♦ **Heat wave conditions** very likely in isolated pockets over Odisha and Coastal Andhra Pradesh & Yanam.

♦ **Dust Storm/Thunderstorm with gusty winds (speed 30-40 kmph)** likely in isolated pockets over Rajasthan.

18 May (Day 5): ♦ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Rajasthan, Odisha, West Bengal & Sikkim; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Bihar, Jharkhand, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

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Table-1

5 Day Rainfall Forecast

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

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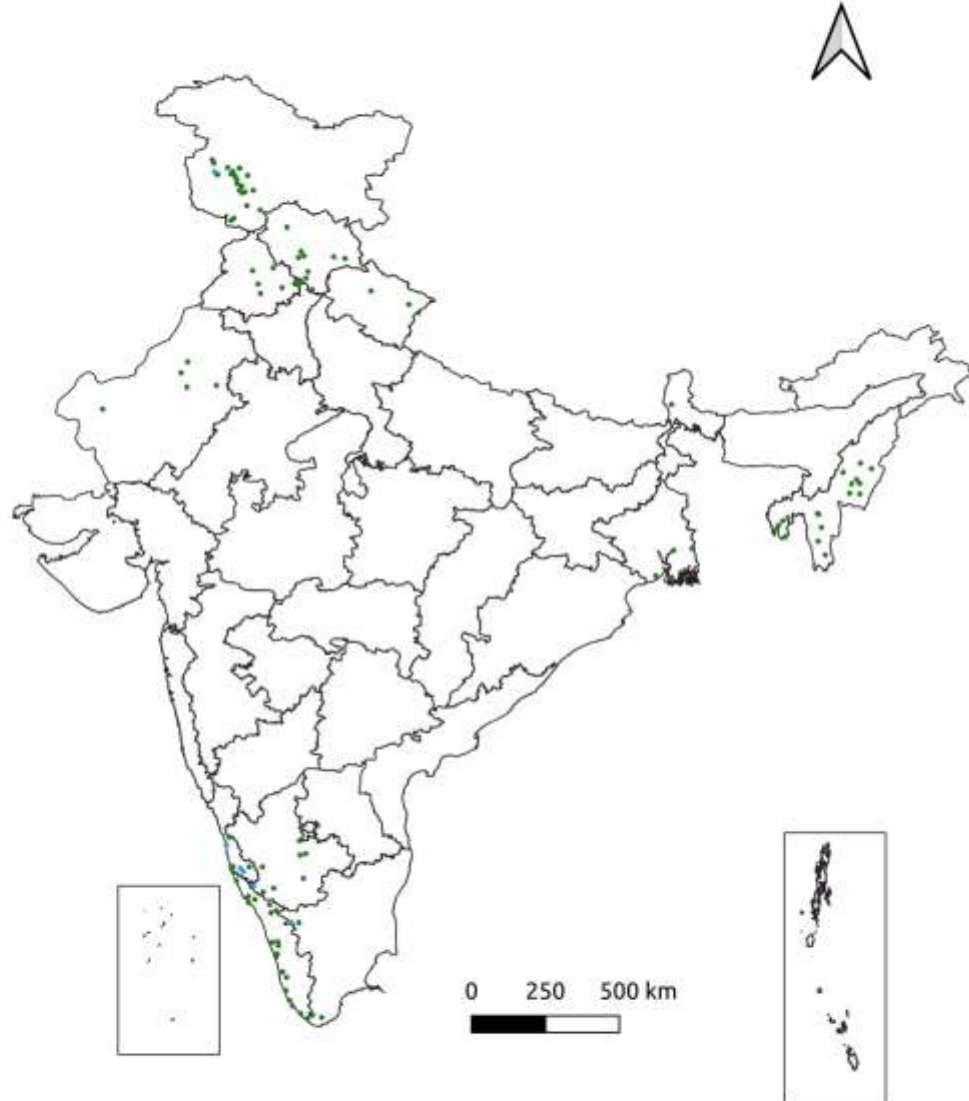
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations
during 0830 IST of 13-5-2023 to 0830 IST of 14-5-2023

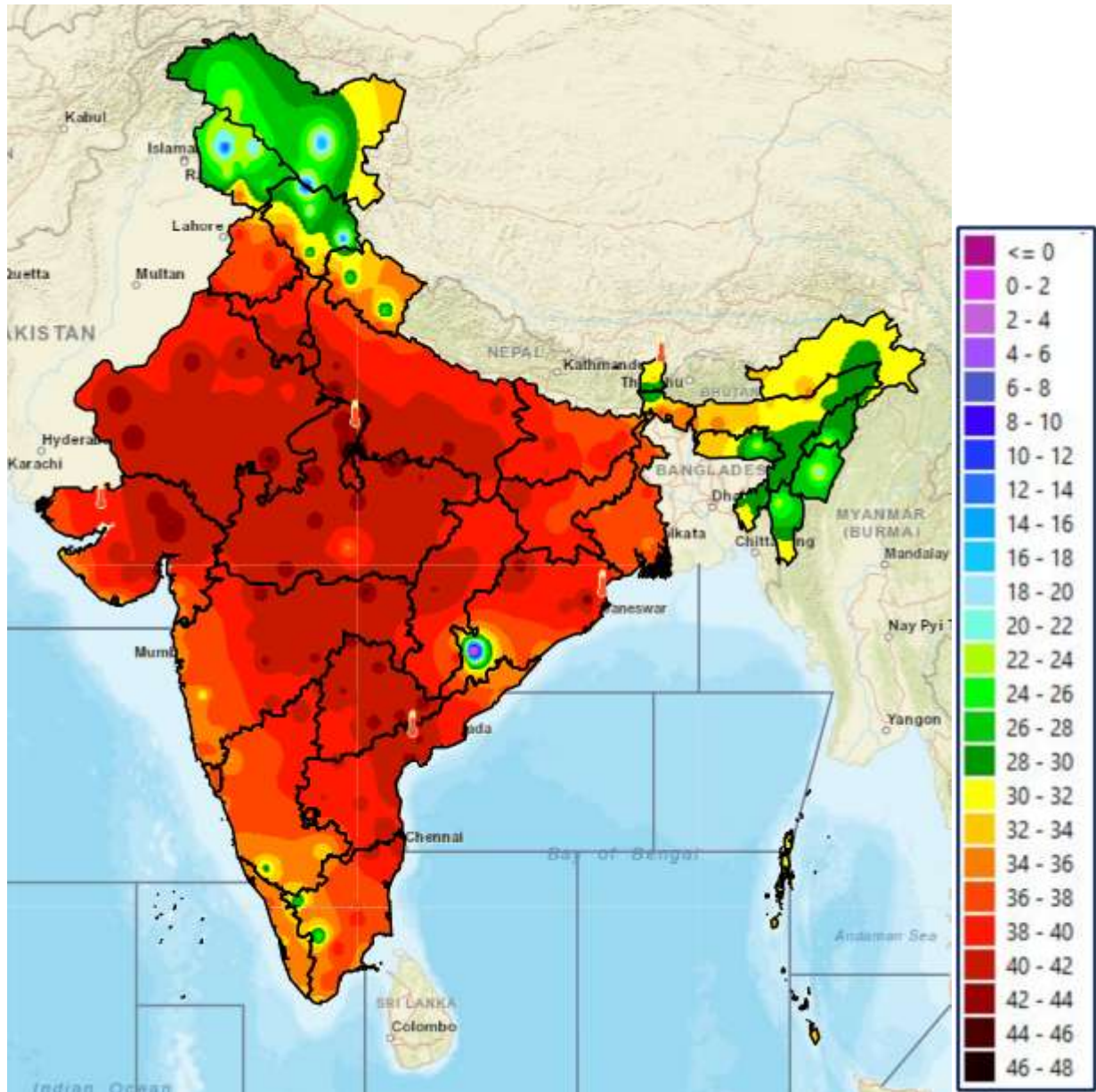


Legends

- 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)



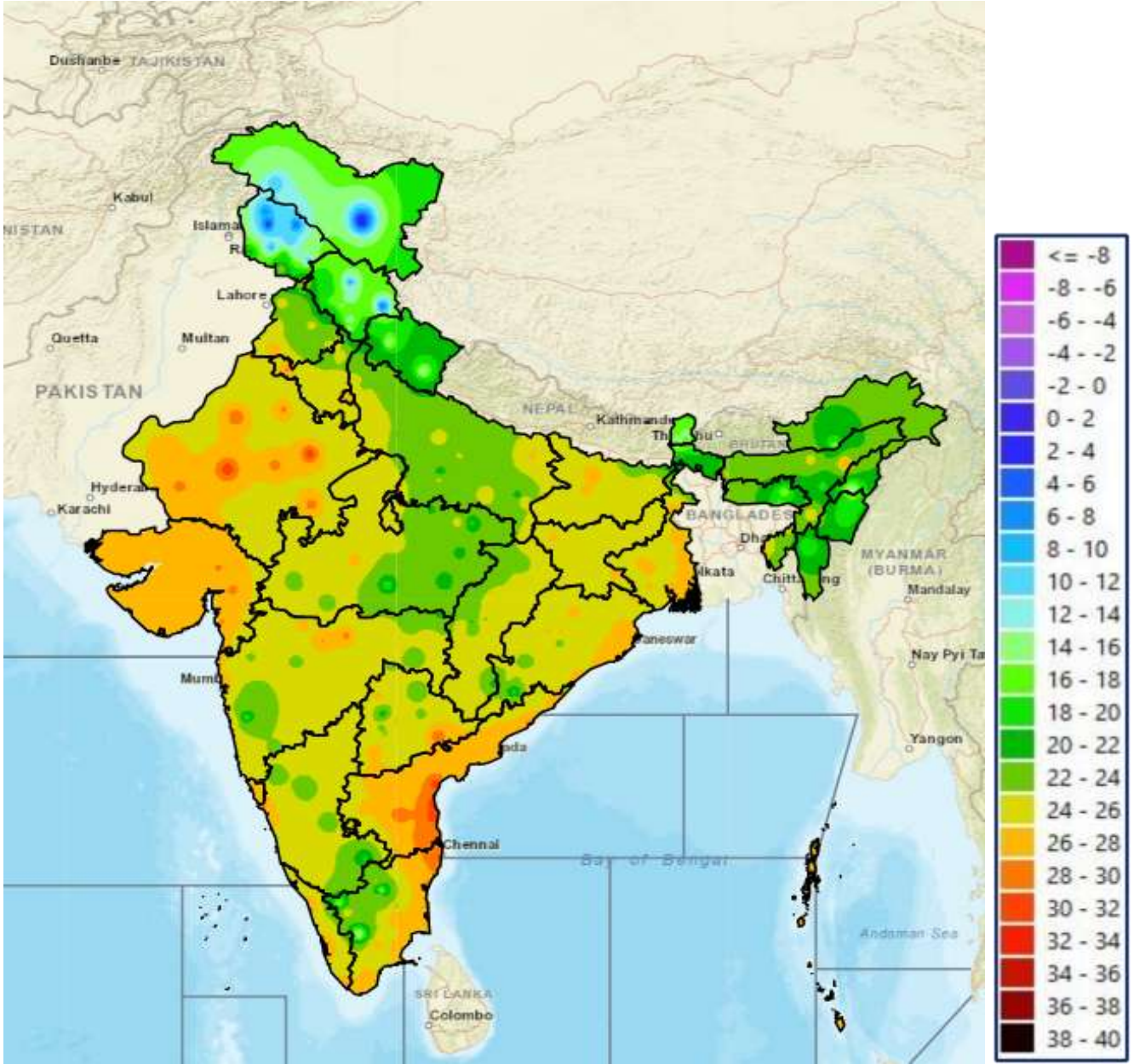
Fig. 2: Maximum Temperatures Dated 14.05.2023



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Fig. 3: Minimum Temperatures Dated 14.05.2023



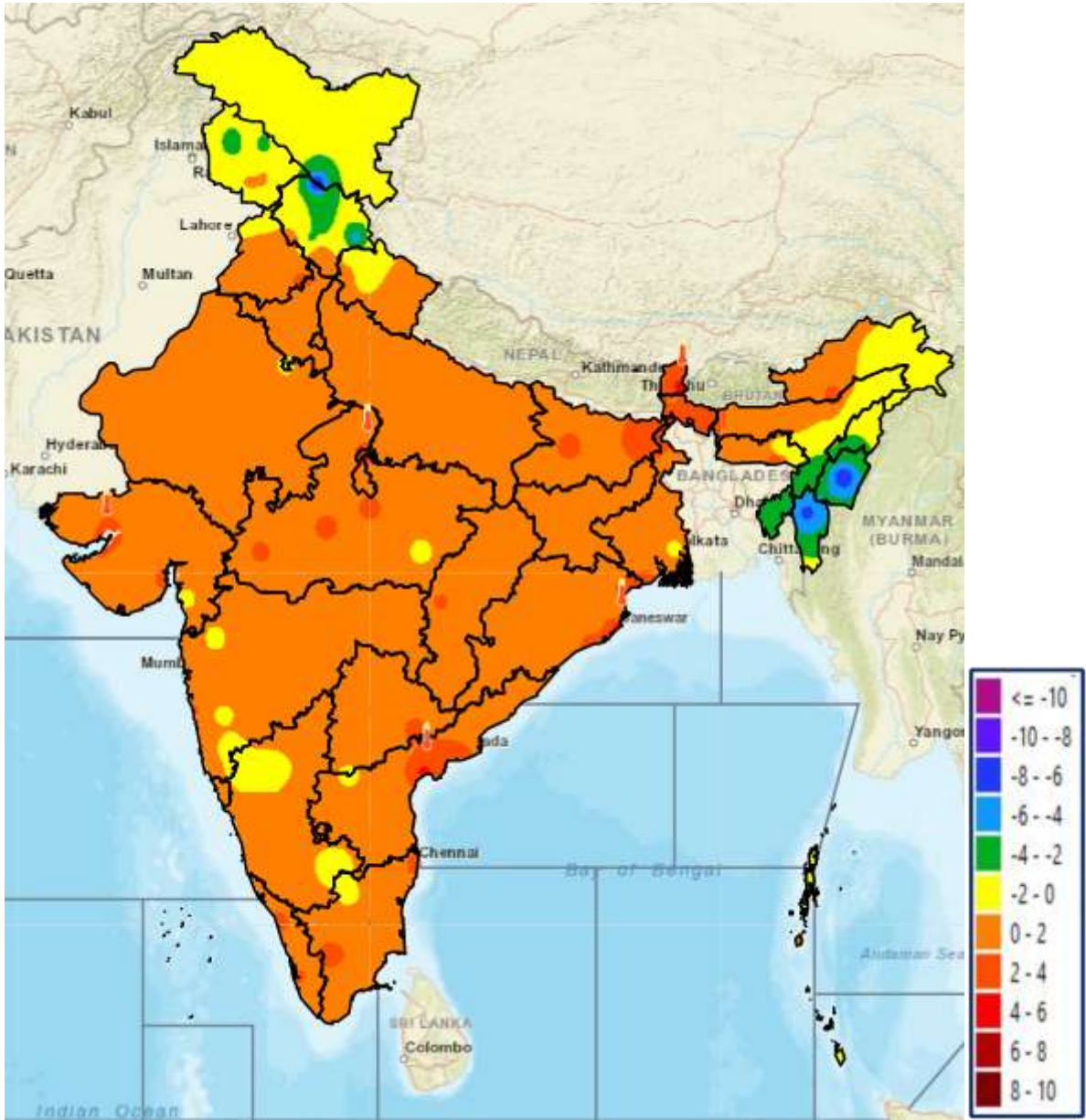
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Fig. 4: Departure from Normal of Maximum Temperatures Dated 14.05.2023



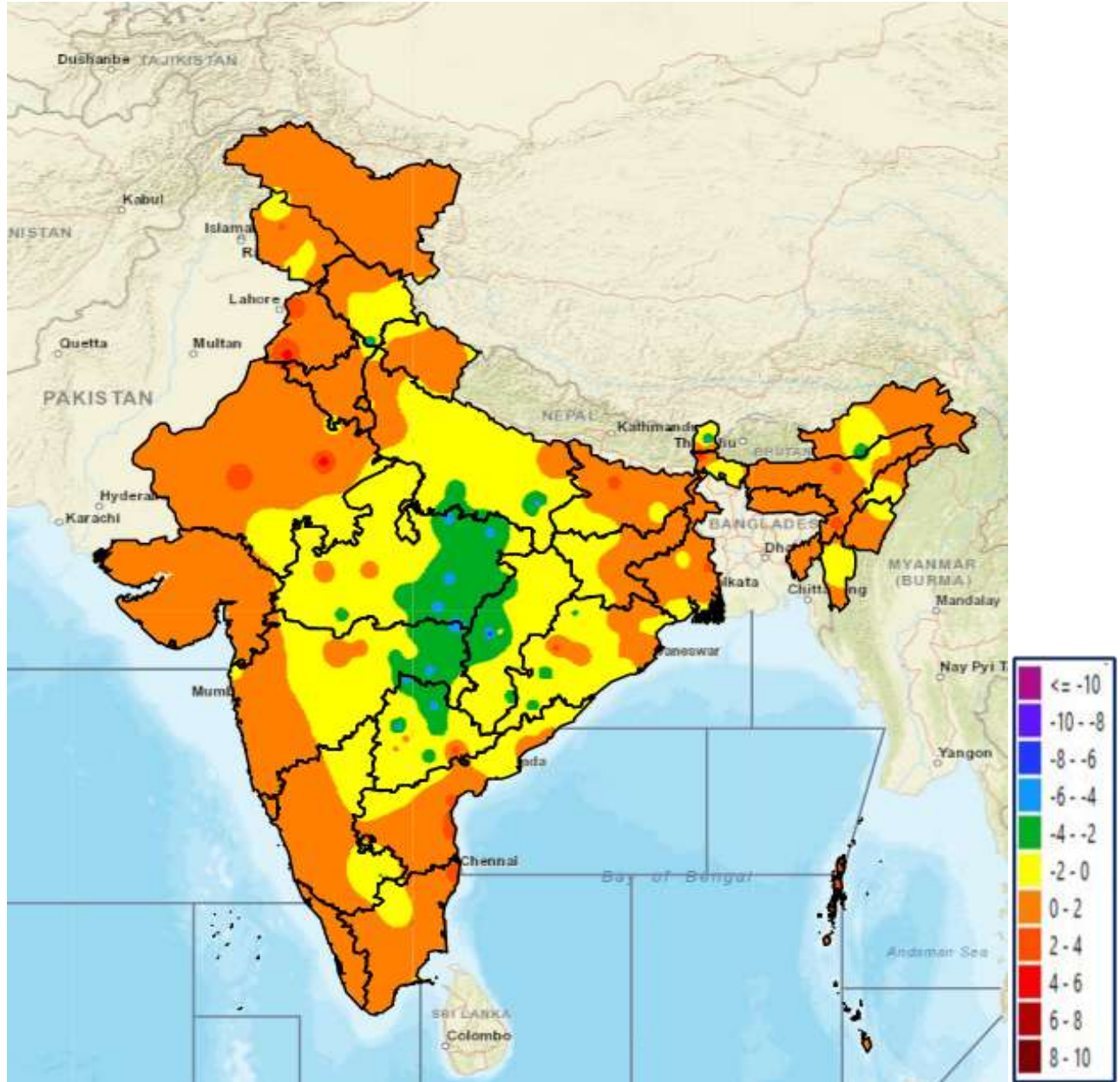
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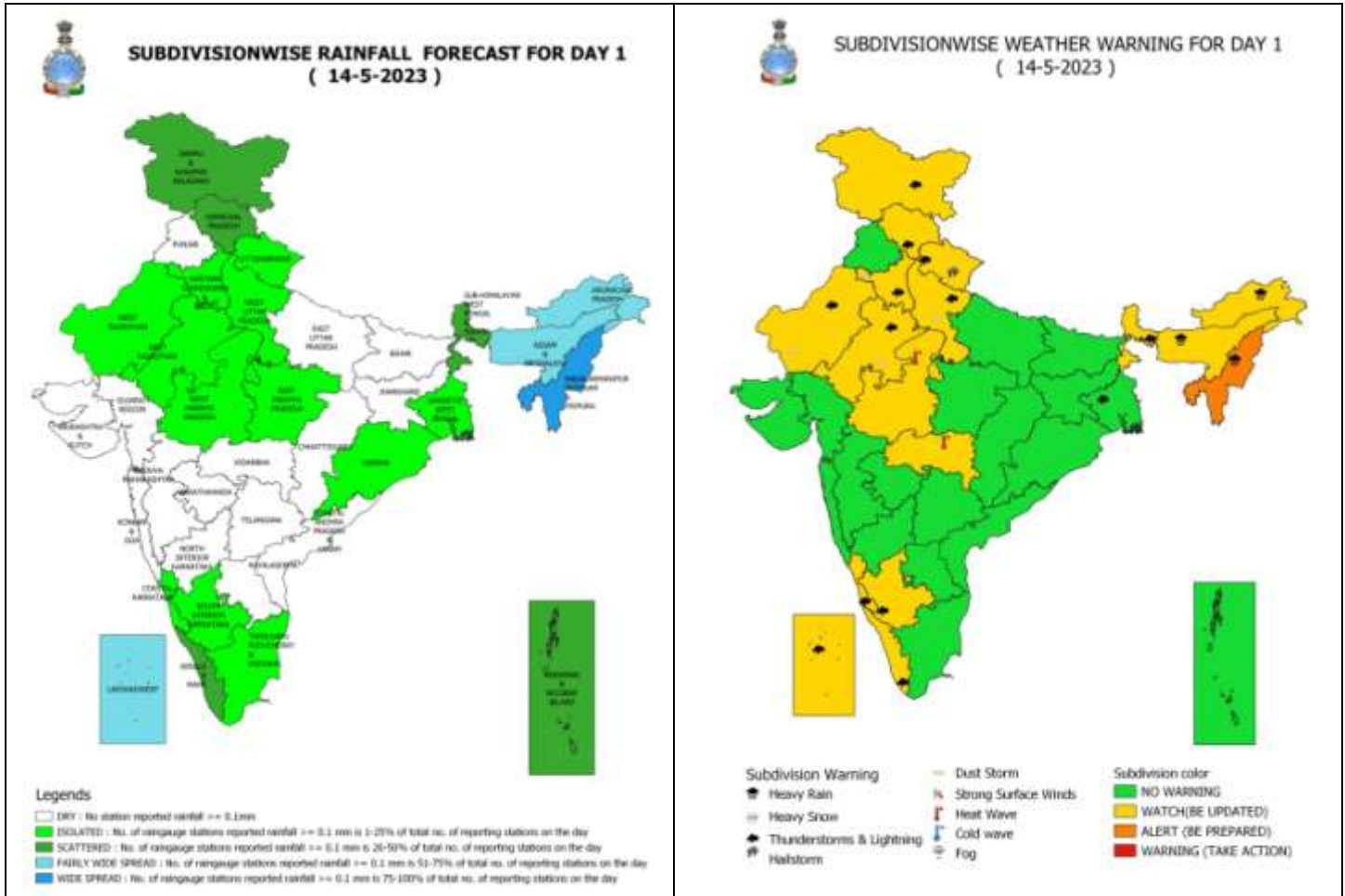
Fig. 5: Departure from Normal of Minimum Temperatures Dated 14.05.2023



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14 May (Day 1): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Arunachal Pradesh and Assam.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over South Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, West Bengal & Sikkim, Coastal Karnataka and Lakshadweep.

♦ **Hailstorm with thunderstorm, lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Uttarakhand.

♦ **Heat wave conditions** very likely in isolated pockets over West Madhya Pradesh, Vidarbha.

♦ **Dust Storm/Thunderstorm with gusty winds (speed 30-40 kmph)** very likely in isolated pockets over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan.

♦ **Gale Wind with wind speed 60-80 kmph gusting to 90 kmph** very likely over Northeast Bay of Bengal.

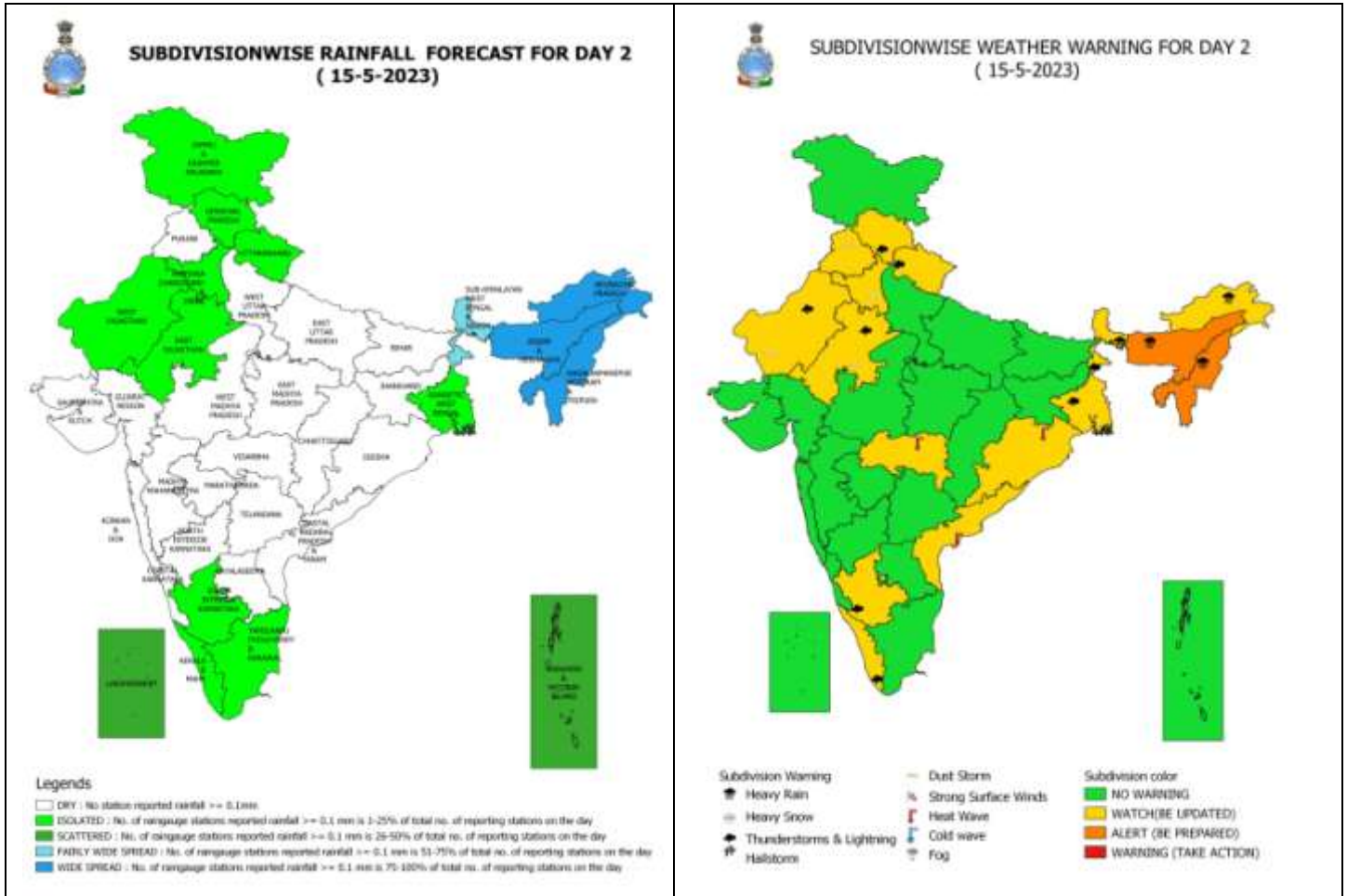
♦ **Squally Wind with wind speed 45-55 kmph gusting to 65 kmph** very likely over Eastcentral Bay of Bengal.

♦ **Squally Wind with wind speed 50-60 kmph gusting to 70 kmph** very likely over Tripura, Mizoram & Manipur.

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15 May (Day 2): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya; **heavy rainfall** at isolated places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim.

♦ **Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over South Interior Karnataka; **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, West Bengal & Sikkim and Kerala & Mahe.

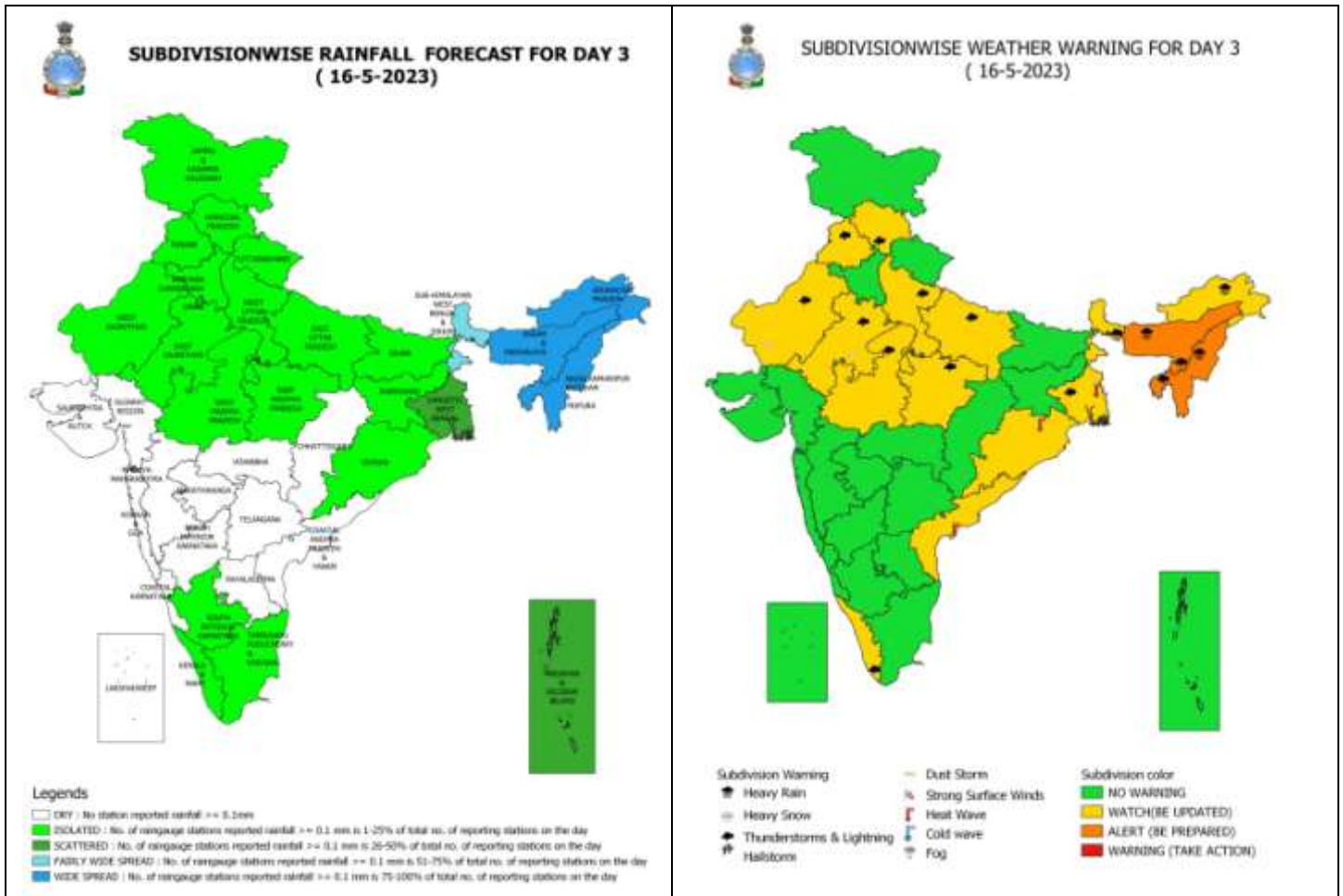
♦ **Heat wave conditions** very likely in isolated pockets over Odisha, Vidarbha and Coastal Andhra Pradesh & Yanam.

♦ **Dust Storm/Thunderstorm with gusty winds (speed 30-40 kmph)** very likely in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, Rajasthan.

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16 May (Day 3): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya; **heavy rainfall** at isolated places over Arunachal Pradesh.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Uttar Pradesh, West Bengal & Sikkim; **with lightning** at isolated places over Himachal Pradesh, Punjab, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh and Kerala & Mahe.

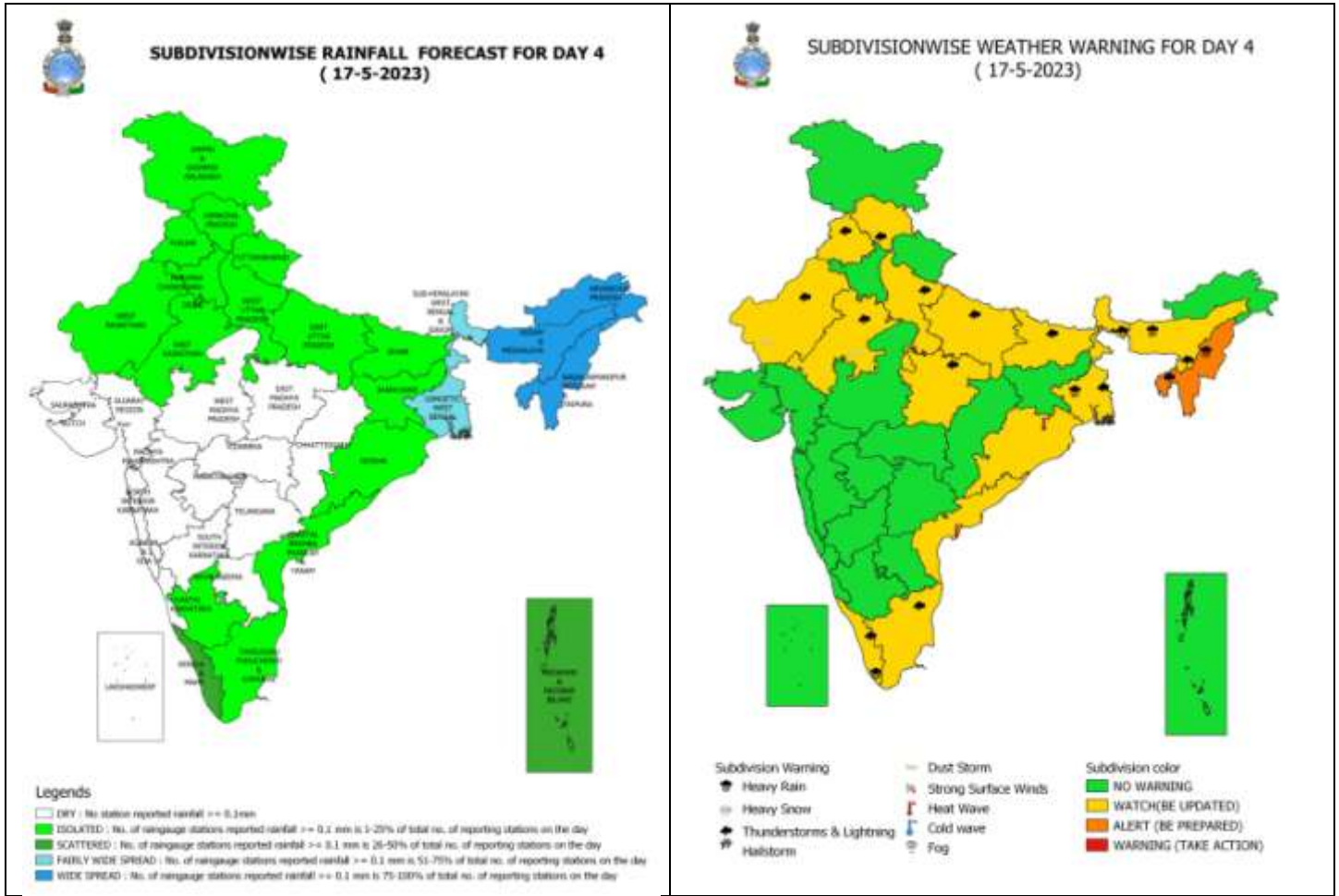
♦ **Heat wave conditions** very likely in isolated pockets over Gangetic West Bengal, Odisha and Coastal Andhra Pradesh & Yanam.

♦ **Dust Storm/Thunderstorm with gusty winds (speed 40-50 kmph)** very likely in isolated pockets over Rajasthan.

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17 May (Day 4): ♦ **Heavy to very heavy rainfall** likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Assam & Meghalaya, Gangetic West Bengal and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Punjab, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim; **with lightning** at isolated places over Himachal Pradesh, East Madhya Pradesh, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.

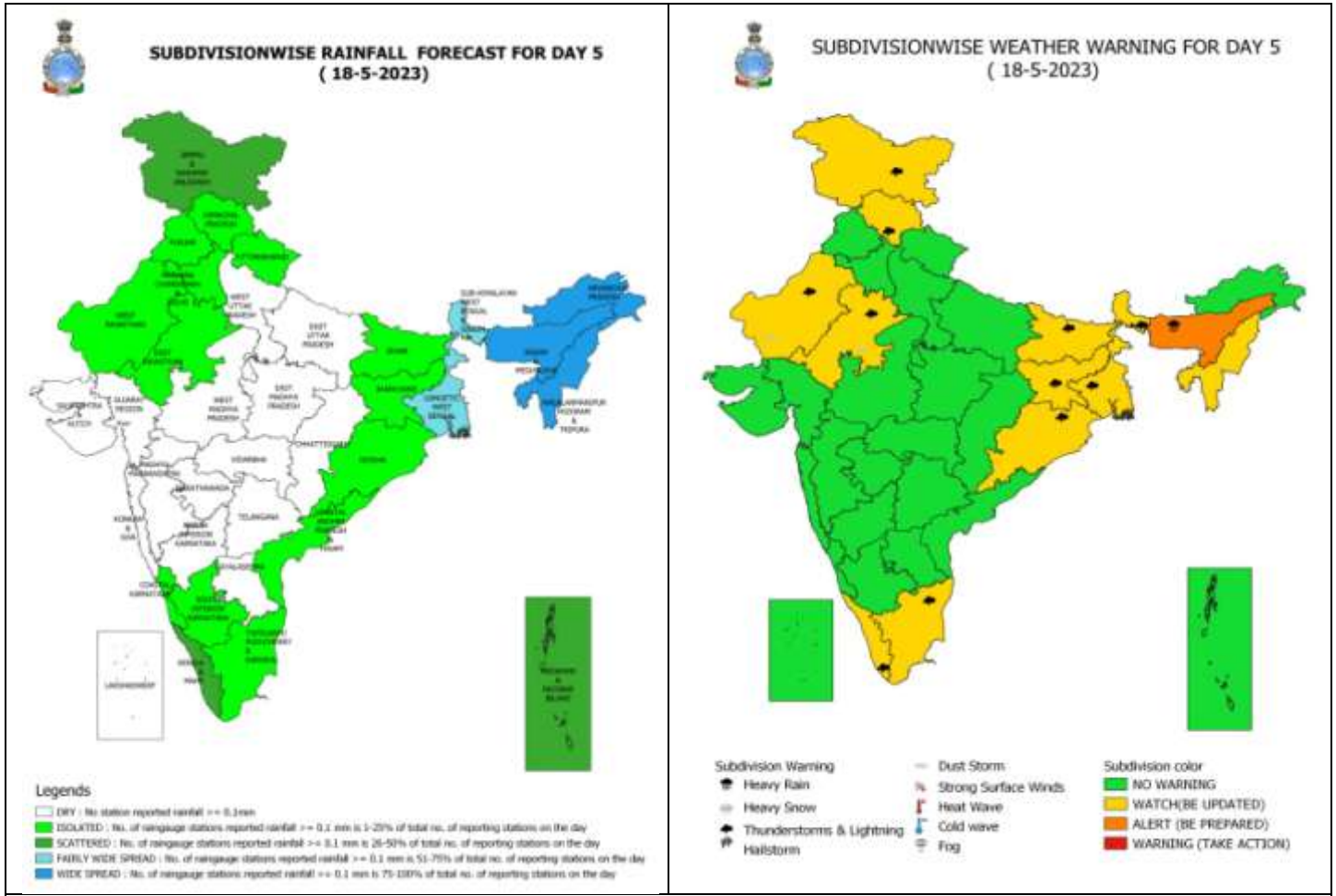
♦ **Heat wave conditions** very likely in isolated pockets over Odisha and Coastal Andhra Pradesh & Yanam.

♦ **Dust Storm/Thunderstorm with gusty winds (speed 30-40 kmph)** likely in isolated pockets over Rajasthan.

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18 May (Day 5): ♦ Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya.

♦ Thunderstorm with lightning & gusty winds (speed 30-40 kmph) likely at isolated places over Rajasthan, Odisha, West Bengal & Sikkim; with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Bihar, Jharkhand, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

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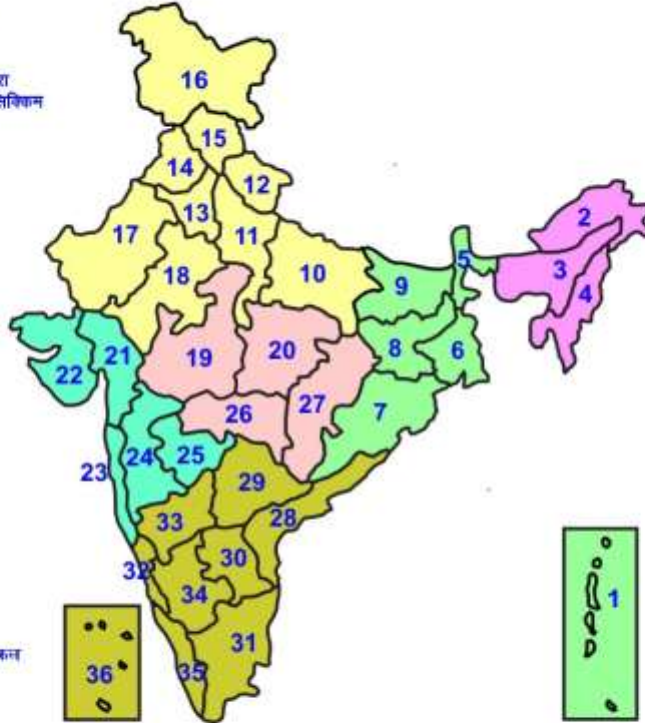
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीज़ोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम 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 वटीय आंध्र प्रदेश एवं थनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

WARNING

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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