



Thursday, May 04, 2023  
Time of Issue: 0800 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### **Significant Meteorological features:**

- ❖ A **Western Disturbance** seen as a trough along Long. 78°E to the north of Lat. 25°N in lower & middle tropospheric levels.
- ❖ A **cyclonic circulation** lies over Northeast Rajasthan & neighbourhood in lower tropospheric levels.
- ❖ A **trough/wind discontinuity** runs from southwest Madhya Pradesh to south Tamil Nadu in lower tropospheric levels.
- ❖ A **cyclonic Circulation** lies over north Tamil Nadu in lower tropospheric levels. Another **cyclonic circulation** lies over south Chhattisgarh in lower tropospheric levels.
- ❖ A **fresh Western Disturbance** likely to affect Northwest India from 05<sup>th</sup> May night.
- ❖ A **cyclonic circulation is likely to develop over Southeast Bay of Bengal around 6<sup>th</sup> May, 2023. Under its influence a low pressure area is likely to form over the same region around 7<sup>th</sup> May. It is likely to concentrate into a depression over Southeast Bay of Bengal on 8<sup>th</sup> May. Thereafter, it is likely to intensify into a cyclonic storm while moving nearly northwards towards central Bay of Bengal. The details of its path and intensification will be provided after the formation of low pressure area. The system is under constant watch and being monitored regularly.**

#### **Forecast and warning for next 5 days:**

##### **Northwest India:**

- ❖ A fresh spell of rainfall likely to commence over the region from 05<sup>th</sup> May with scattered to fairly widespread rainfall/snowfall over Western Himalayan region and isolated to scattered rainfall over plains of northwest India for subsequent 2-3 days.

##### **Central India:**

- ❖ Light Isolated/Scattered rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 4 days.

##### **South India:**

- ❖ Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 4 days.

##### **Northeast India:**

- ❖ Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 2 days.
- ❖ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh on 04<sup>th</sup> & 05<sup>th</sup> May and over Assam & Meghalaya 04<sup>th</sup> May.

**No significant weather likely over rest parts of the country.**

#### **Maximum Temperature, its Forecast and Heat Wave Warnings:**

- ❖ Yesterday, Maximum Temperatures were below 35°C over most parts of the country except some parts of Gujarat state, southwest Rajasthan, Madhya Maharashtra, North Interior Karnataka and Rayalaseema where temperatures are 36-37°C. They are below normal by 5-10°C over most parts of the country.
- ❖ Maximum temperatures are very likely to increase and become near normal over the country during next 5 days except coastal Odisha and coastal West Bengal, where these likely to above normal by 2-4°C
- ❖ **No Heat wave conditions likely over any part of India during next 5 days.**

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### Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places over** Uttarakhand; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi, Uttar Pradesh, Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Odisha, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Rayalaseema, Jharkhand and South Interior Karnataka.
- ❖ **Heavy rainfall occurred** (from 0830 hours IST to 1730 hours IST of yesterday): **Nil**.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday)(in cm): Karaput-5; Shimla, Tehri, Najibabad, Moradabad, Rohtak, Hardoi, Bapatla, Thanjavur, Kakinada, Narsapur-2 each; Delhi-Ridge-1.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, Saurashtra & Kutch, Jharkhand, Tripura, Odisha, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Hailstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Haryana and West Uttar Pradesh.
- ❖ **Visibility recorded** (at 0530 hours IST of today): Safdarjung (Delhi) 50 metre.
- ❖ **Minimum Temperature Departures (as on 03-05-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Sub-Himalayan West Bengal & Sikkim. They were **markedly below normal (-5.1°C or less)** at most places over Vidarbha; at many places over East Rajasthan, Madhya Pradesh; at a few places over Chhattisgarh; at isolated places over West Uttar Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at most places over West Rajasthan; at many places over Haryana, Chandigarh & Delhi, Marathwada; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Telangana; at isolated places over Himachal Pradesh, East Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over Punjab, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, at a few places over Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal; at isolated places over Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat Region and **near normal** over rest parts of the country. Yesterday, the **lowest minimum temperature of 17.0°C** was reported at **Delhi-Ridge (Delhi) and Najibabad (West Uttar Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 03-05-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at a few places over Nagaland, Manipur, Mizoram & Tripura. They were **markedly below normal (-5.1°C or less)** at most places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, East Madhya Pradesh, Uttar Pradesh, Chhattisgarh, Vidarbha, Telangana; at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Rajasthan, Jharkhand, West Madhya Pradesh, Odisha, Marathwada and Rayalaseema; at a few places over Coastal Andhra Pradesh & Yanam and North Interior Karnataka and at isolated places over Saurashtra & Kutch; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Gujarat Region and Madhya Maharashtra; at a few places over Tamil Nadu, Puducherry & Karaikal and at isolated places over Bihar; **below normal (-1.6°C to -3.0°C)** at a few places over Gangetic West Bengal and at isolated places over Kerala & Mahe and **near normal** over rest parts of the country. Yesterday, the **highest maximum temperature of 37.7°C** was reported at **Rajkot (Saurashtra & Kutch)**.

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### Meteorological Analysis (Based on 0530 hours IST)

- ❖ The **Western Disturbance** as a **trough** between 3.1 km & 7.6 km above mean sea level with its axis at 5.8 km above mean sea level now runs roughly along Long. 78°E to the north of Lat. 25°N.
- ❖ The **cyclonic circulation** over Northeast Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ❖ The **trough/wind discontinuity** from southwest Madhya Pradesh to south Tamil Nadu across Marathwada and interior Karnataka extending upto 1.5 km above mean sea level persists.
- ❖ The **cyclonic circulation** over south Chhattisgarh & neighbourhood upto 0.9 km above mean sea level persists.
- ❖ The **cyclonic circulation** over north Tamil Nadu & neighbourhood between 3.1 km & 5.8 km above mean sea level persists.
- ❖ A fresh Western Disturbance likely to affect Northwest India from 05<sup>th</sup> May, 2023.
- ❖ A cyclonic circulation is likely to develop over Southeast Bay of Bengal around 06<sup>th</sup> May, 2023. Under its influence, a Low Pressure Area is likely to form over the same region around 07<sup>th</sup> May. It is likely to concentrate into a Depression over Southeast Bay of Bengal on 08<sup>th</sup> May. Thereafter, it is likely to intensify into a Cyclonic Storm while moving nearly northwards towards central Bay of Bengal.
- ❖ The trough from cyclonic circulation over Northeast Rajasthan to west Bihar across Uttar Pradesh extending upto 1.5 km above mean sea level has become less marked.

### Weather Forecast for next 5 days (Upto 0830 hours IST of 09th 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:** Rise by 3-5°C in maximum temperatures very likely during next 2 days and no significant change thereafter.
- ❖ **Central India:** Gradual rise by 3-5°C in maximum temperatures very likely during next 3 days and no significant change thereafter.
- ❖ **East India:** No significant change in maximum temperatures very likely during next 24 hours and rise by 3-5°C thereafter.
- ❖ **West India:** No significant change in maximum temperatures very likely during next 2 days and rise by 2-4°C thereafter.
- ❖ **South India:** No significant change in maximum temperatures very likely during next 24 hours and rise by 2-4°C thereafter.
- ❖ No significant change in maximum temperatures over rest parts of India during the next 5 days.
- ❖ **No Heat wave conditions over most parts of India during next 5 days.**

### Weather Outlook for subsequent 2 days (During 09th-11th May, 2023)

- ❖ Scattered to fairly widespread light/moderate rainfall likely to continue over northeast India and parts of Northwest India. Isolated light rainfall likely along east coast and over south peninsular India. Dry weather over rest parts of the country.

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## Weather Warning during next 5 days

**04 May (Day 1):** ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Gangetic West Bengal; with **lightning & gusty wind (30-40 kmph)** over Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe; **with lightning** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Gujarat state, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

**05 May (Day 2):** ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Rajasthan; with **lightning & gusty wind (30-40 kmph)** over, Assam & Meghalaya; **with lightning** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, Himachal Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Andaman & Nicobar Islands, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

**06 May (Day 3):** ♦ **Thunderstorm with lightning & gusty wind (30-40 kmph)** very likely at isolated places over Rajasthan; **with lightning** at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Andaman & Nicobar Islands, Madhya Maharashtra, Marathwada, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Karnataka.

♦ **Squally Weather (wind speed reaching 40-45 kmph gusting to 55 kmph)** very likely over Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

**07 May (Day 4):** ♦ **Thunderstorm with lightning & gusty wind (30-40 kmph)** likely at isolated places over Punjab, Haryana, West Uttar Pradesh; **with lightning** at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Andaman & Nicobar Islands, Madhya Maharashtra, Marathwada, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Karnataka.

♦ **Squally Weather (wind speed reaching 40-45 kmph gusting to 55 kmph)** likely over Southeast & adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

**08 May (Day 5):** ♦ **Thunderstorm with lightning** likely at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Chhattisgarh, Arunachal Pradesh, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and South Interior Karnataka.

♦ **Squally Weather (wind speed reaching 45-55 kmph gusting to 65 kmph)** likely over Southeast & adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.



Table-1

<b>5 Day Rainfall Forecast</b>						
S. No.	Subdivision	04-May	05-May	06-May	07-May	08-May
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	FWS	SCT	SCT	FWS	WS
2	ARUNACHAL PRADESH	WS	WS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	FWS	FWS	SCT	SCT	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	SCT	ISOL	ISOL	SCT
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	SCT	SCT	SCT	SCT
6	GANGETIC WEST BENGAL	SCT	ISOL	ISOL	DRY	ISOL
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	ISOL	DRY	DRY	DRY	DRY
9	BIHAR	ISOL	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	ISOL	DRY	DRY	ISOL	DRY
11	WEST UTTAR PRADESH	ISOL	ISOL	ISOL	SCT	DRY
12	UTTARAKHAND	SCT	ISOL	ISOL	SCT	ISOL
13	HARYANA CHANDIGARH & DELHI	ISOL	SCT	SCT	SCT	DRY
14	PUNJAB	ISOL	SCT	SCT	SCT	DRY
15	HIMACHAL PRADESH	SCT	ISOL	SCT	FWS	ISOL
16	JAMMU & KASHMIR AND LADAKH	ISOL	SCT	FWS	FWS	ISOL
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	DRY
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	ISOL	DRY
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	DRY
20	EAST MADHYA PRADESH	SCT	ISOL	ISOL	ISOL	ISOL
21	GUJARAT REGION	ISOL	ISOL	ISOL	DRY	DRY
22	SAURASHTRA & KUTCH	ISOL	ISOL	ISOL	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	DRY
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	DRY
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	DRY
26	VIDARBHA	SCT	SCT	ISOL	ISOL	DRY
27	CHHATTISGARH	SCT	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	SCT	SCT	ISOL
29	TELANGANA	SCT	ISOL	ISOL	ISOL	DRY
30	RAYALASEEMA	SCT	SCT	SCT	FWS	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	SCT	SCT	SCT	ISOL
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	SCT	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	SCT	SCT	ISOL
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	SCT	FWS	SCT
35	KERALA & MAHE	SCT	SCT	SCT	SCT	ISOL
36	LAKSHADWEEP	SCT	SCT	SCT	SCT	SCT

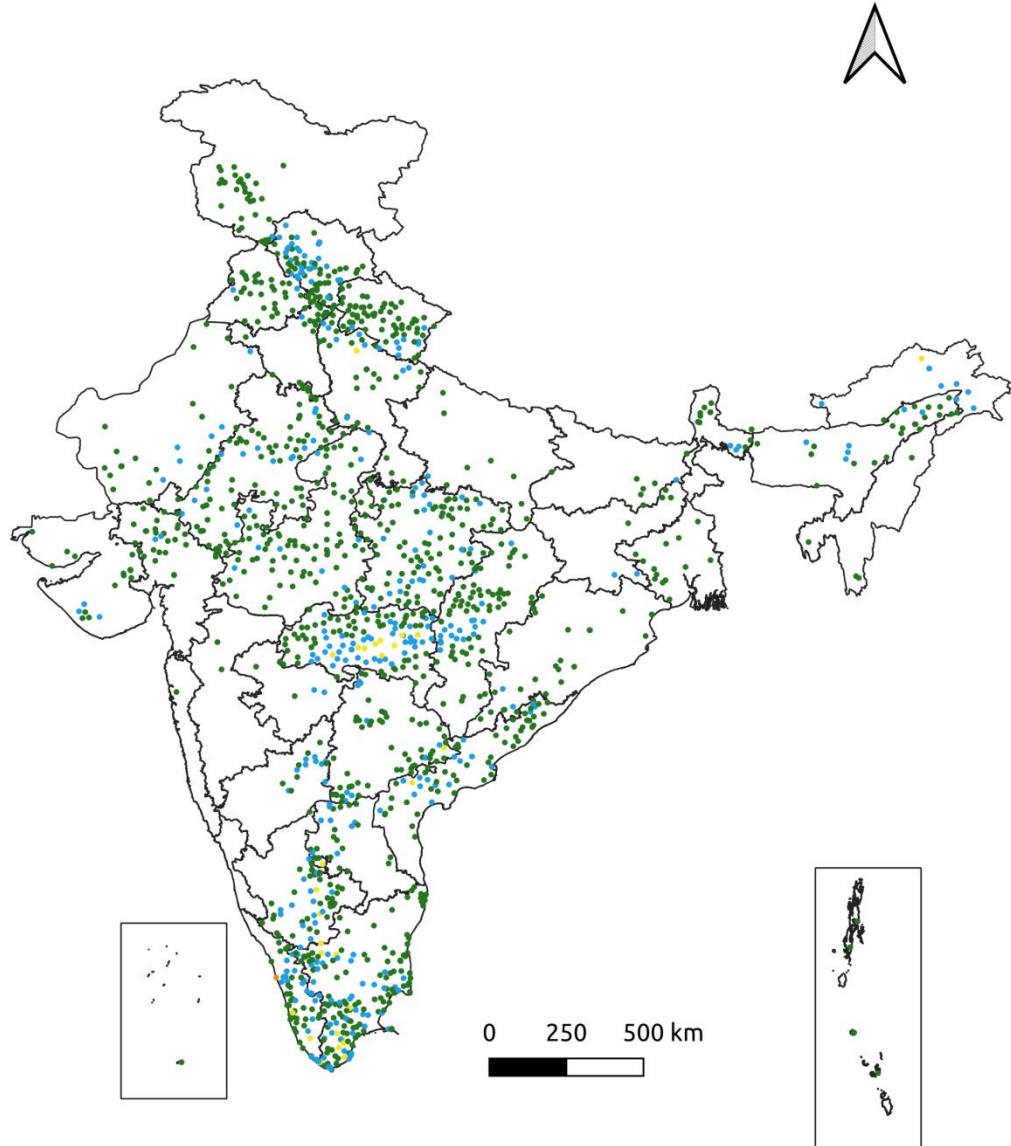
Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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



24 Hr cumulative rainfall recorded over different stations  
during 0830 IST of 2-5-2023 to 0830 IST of 3-5-2023



## 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 ( $\geq 204.5$  mm)

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Fig. 2: Maximum Temperatures Dated 03.05.2023

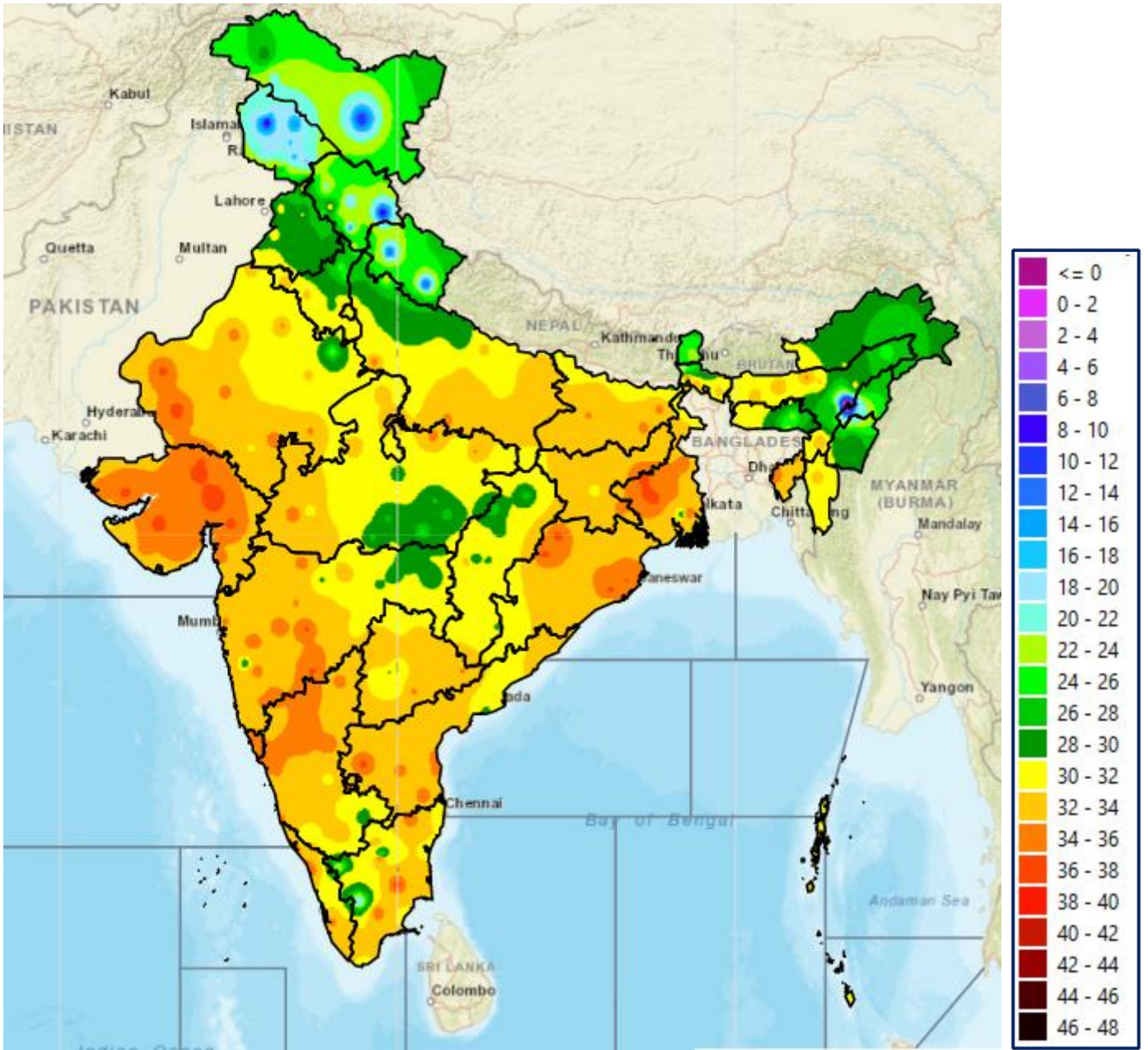


Fig. 3: Minimum Temperatures Dated 03.05.2023

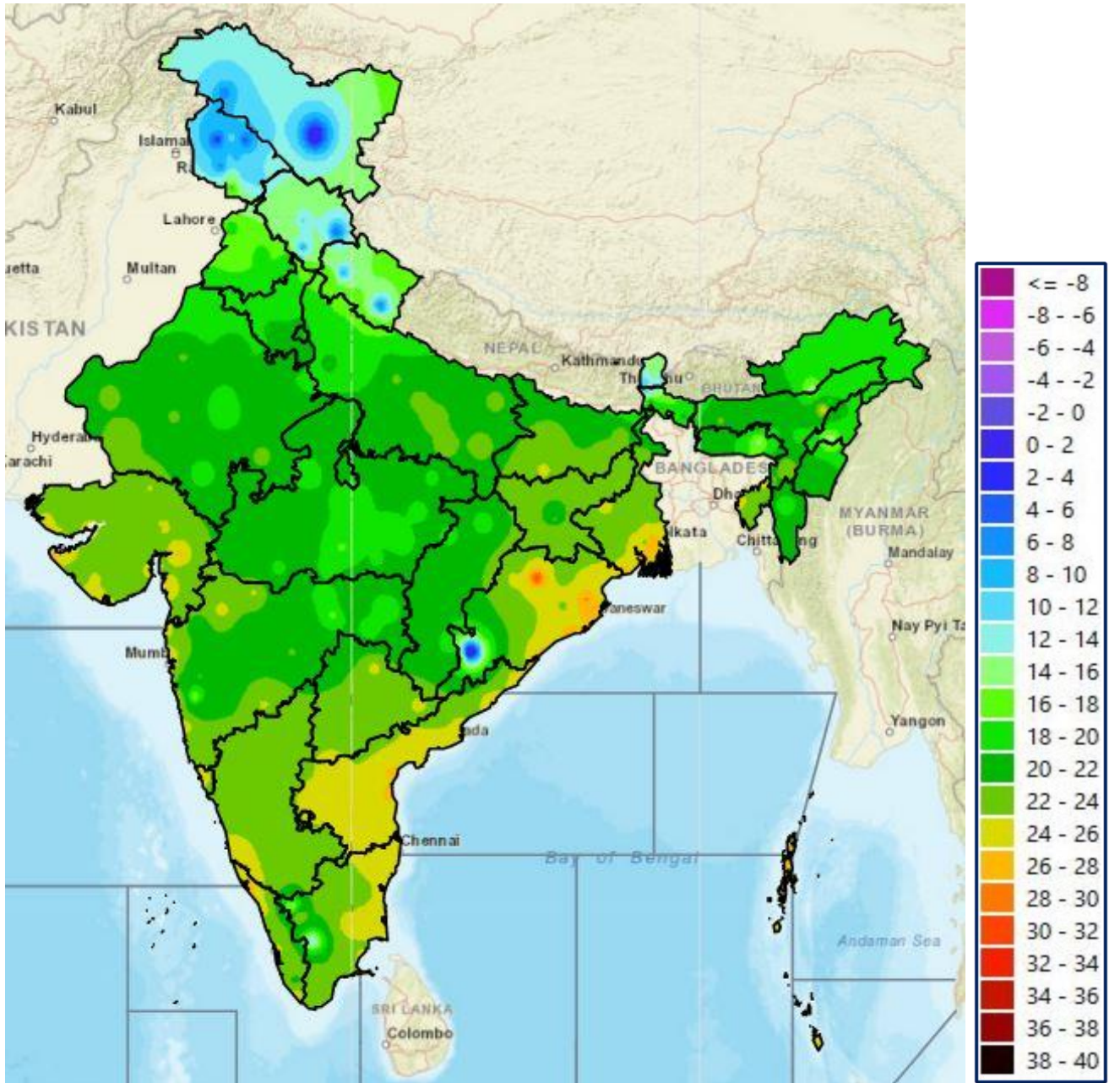
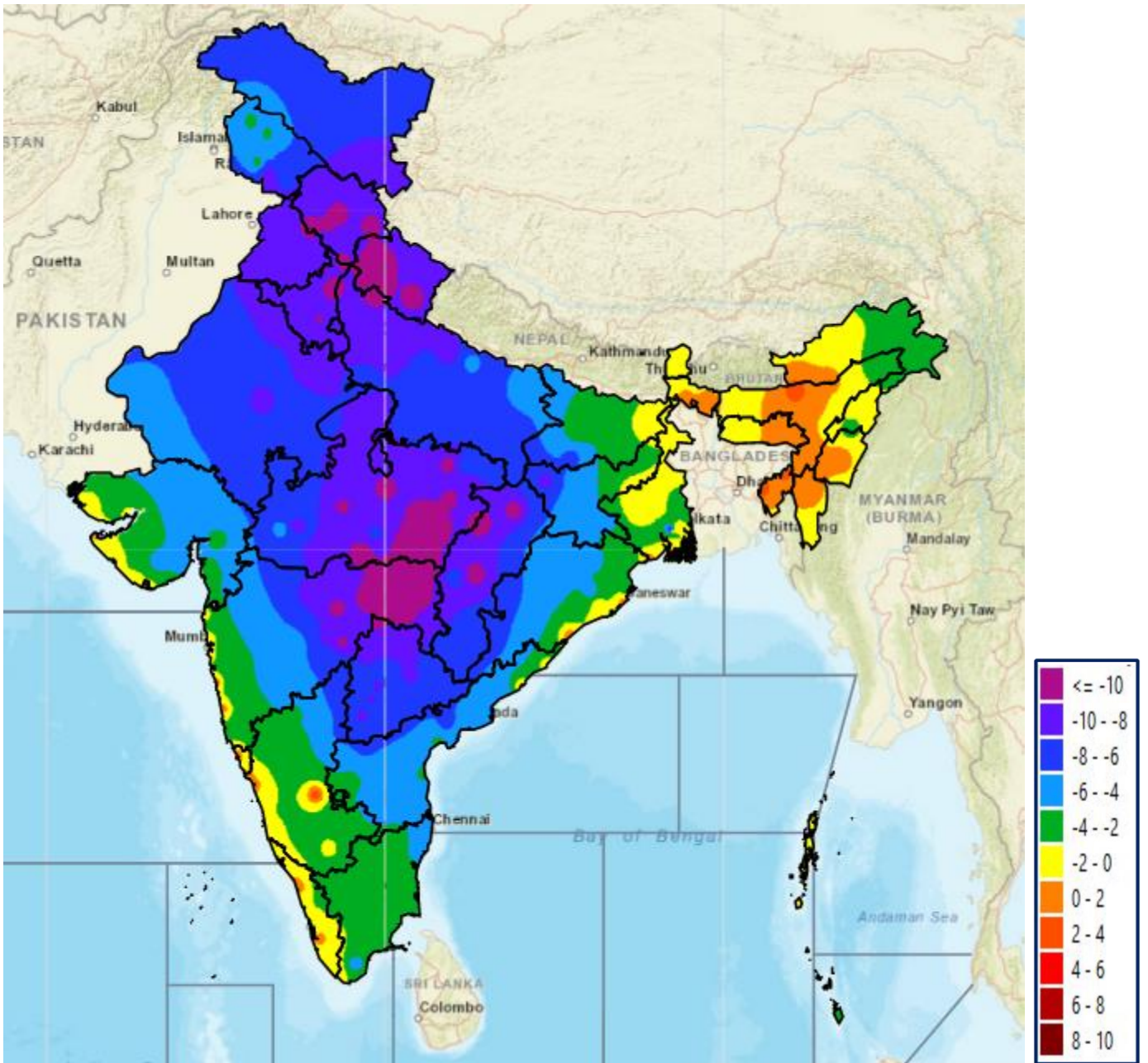


Fig. 4: Departure from Normal of Maximum Temperatures Dated 03.05.2023

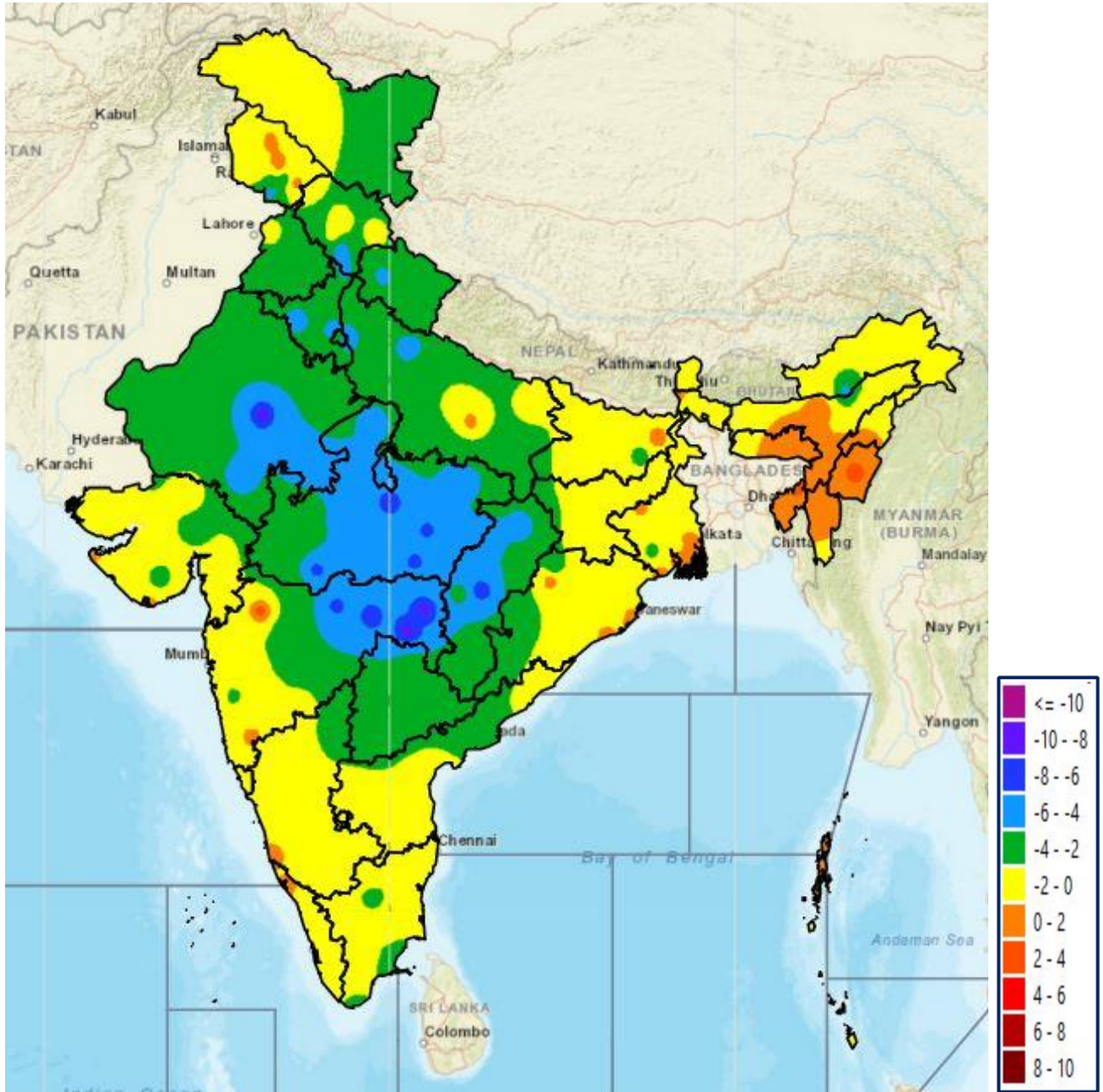


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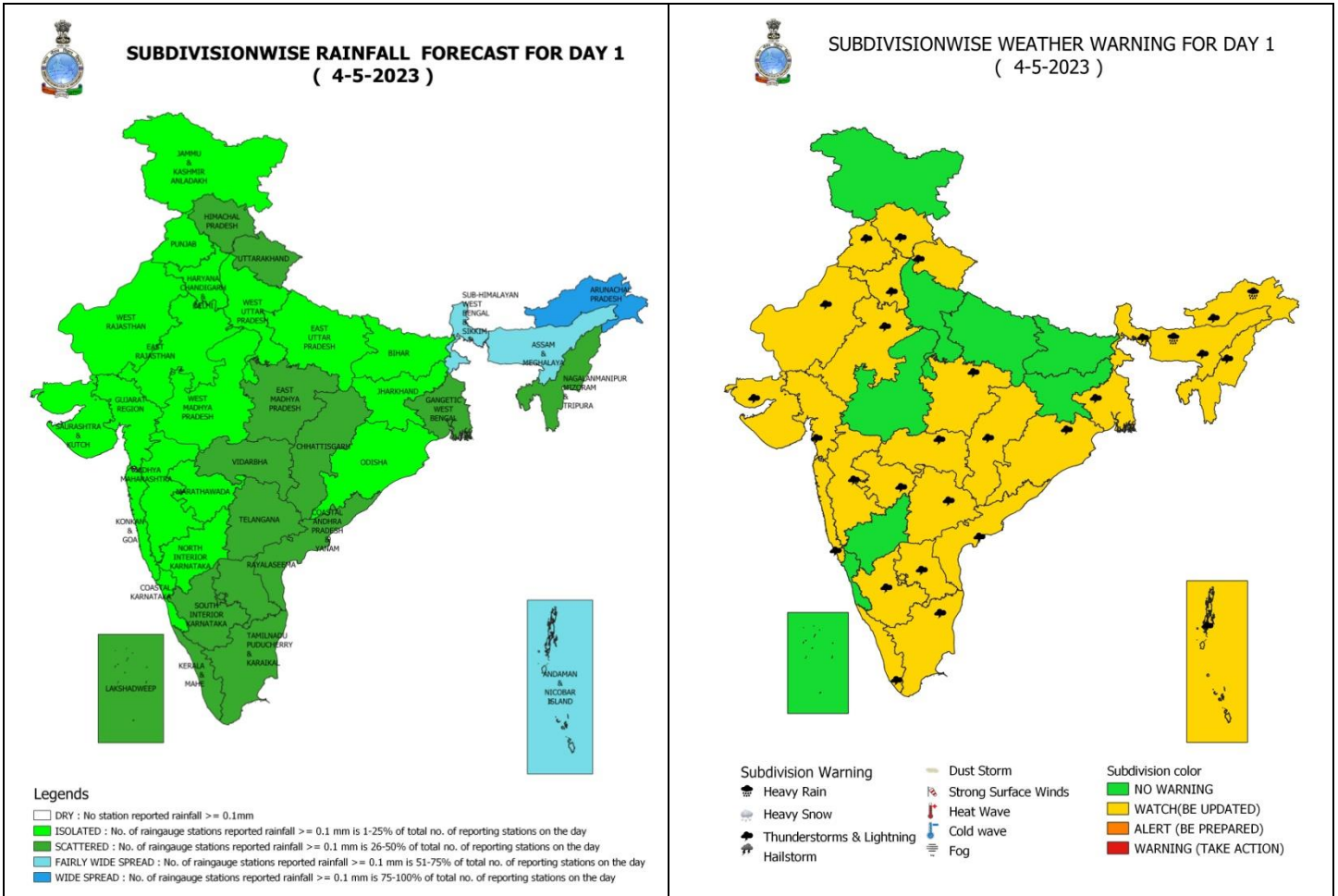
Fig. 5: Departure from Normal of Minimum Temperatures Dated 03.05.2023



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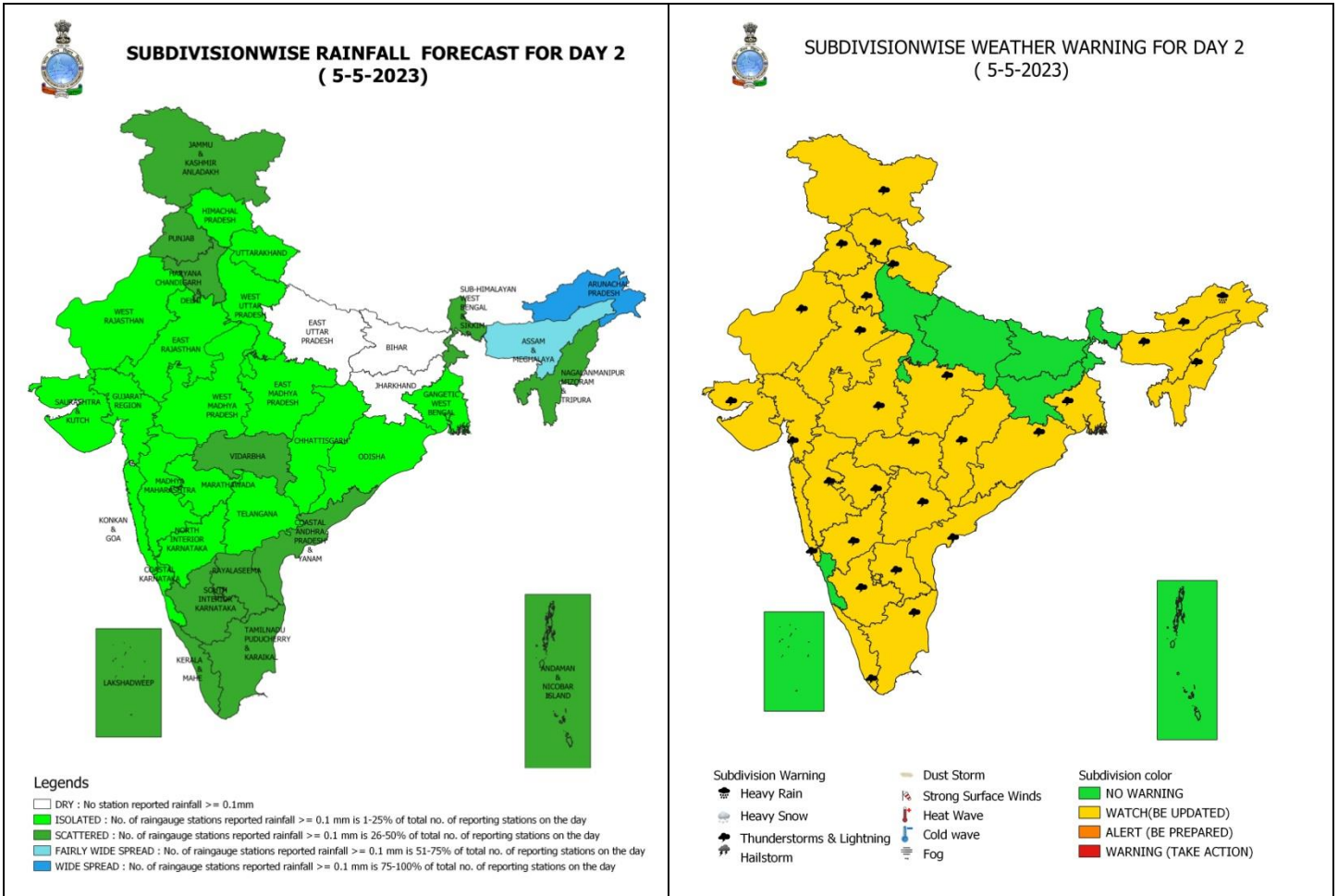
**04 May (Day 1):** ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm with lightning & gusty wind (40-50 kmph)** very likely at isolated places over Gangetic West Bengal; with **lightning & gusty wind (30-40 kmph)** over Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe; **with lightning** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Gujarat state, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

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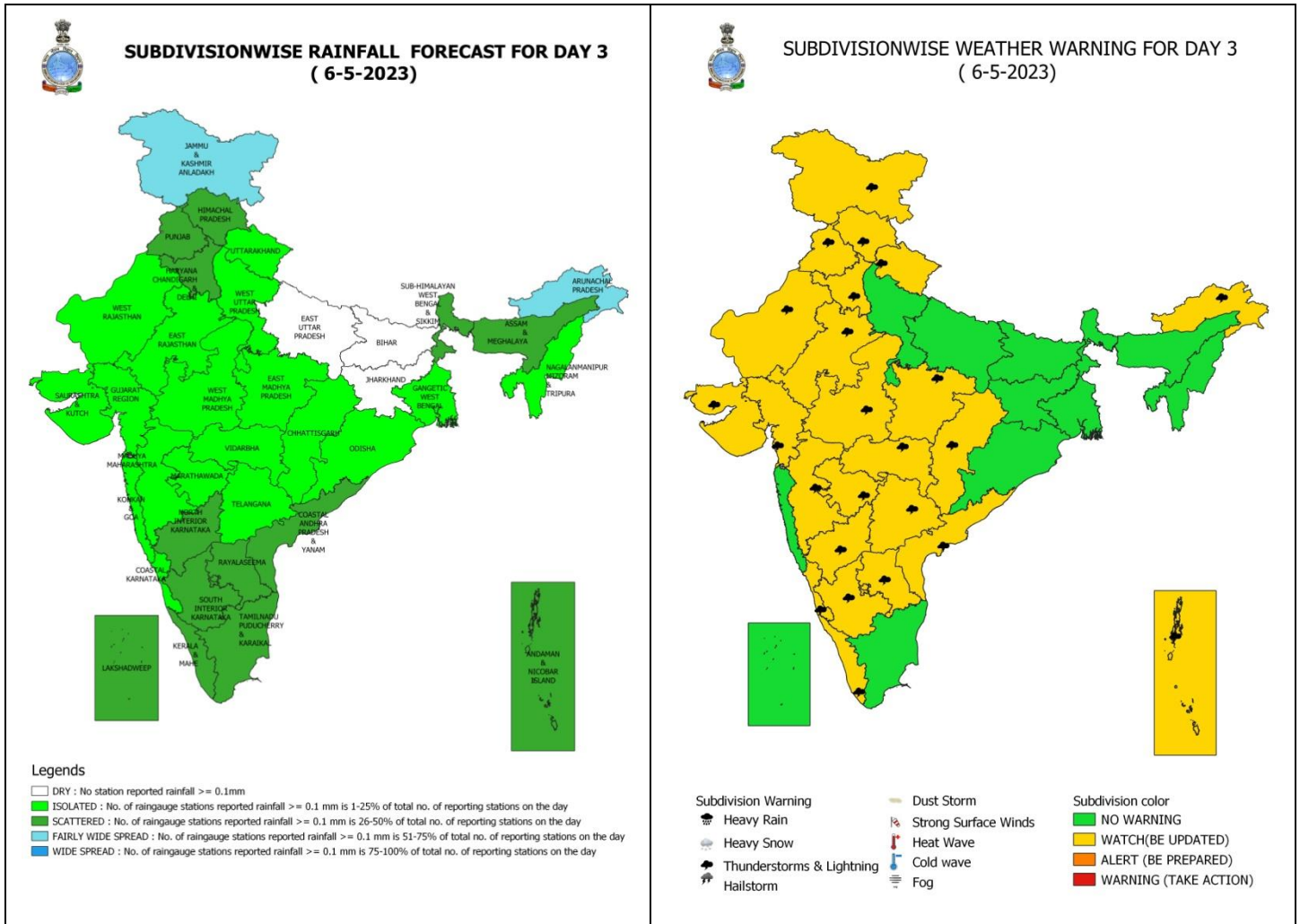
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**05 May (Day 2):** ♦ Heavy rainfall very likely at isolated places over Arunachal Pradesh.

♦ Thunderstorm with lightning & gusty wind (40-50 kmph) very likely at isolated places over Rajasthan; with lightning & gusty wind (30-40 kmph) over, Assam & Meghalaya; with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, Himachal Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Andaman & Nicobar Islands, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.



**06 May (Day 3): ♦ Thunderstorm with lightning & gusty wind (30-40 kmph) very likely at isolated places over Rajasthan; with lightning at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Andaman & Nicobar Islands, Madhya Maharashtra, Marathwada, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Karnataka.**

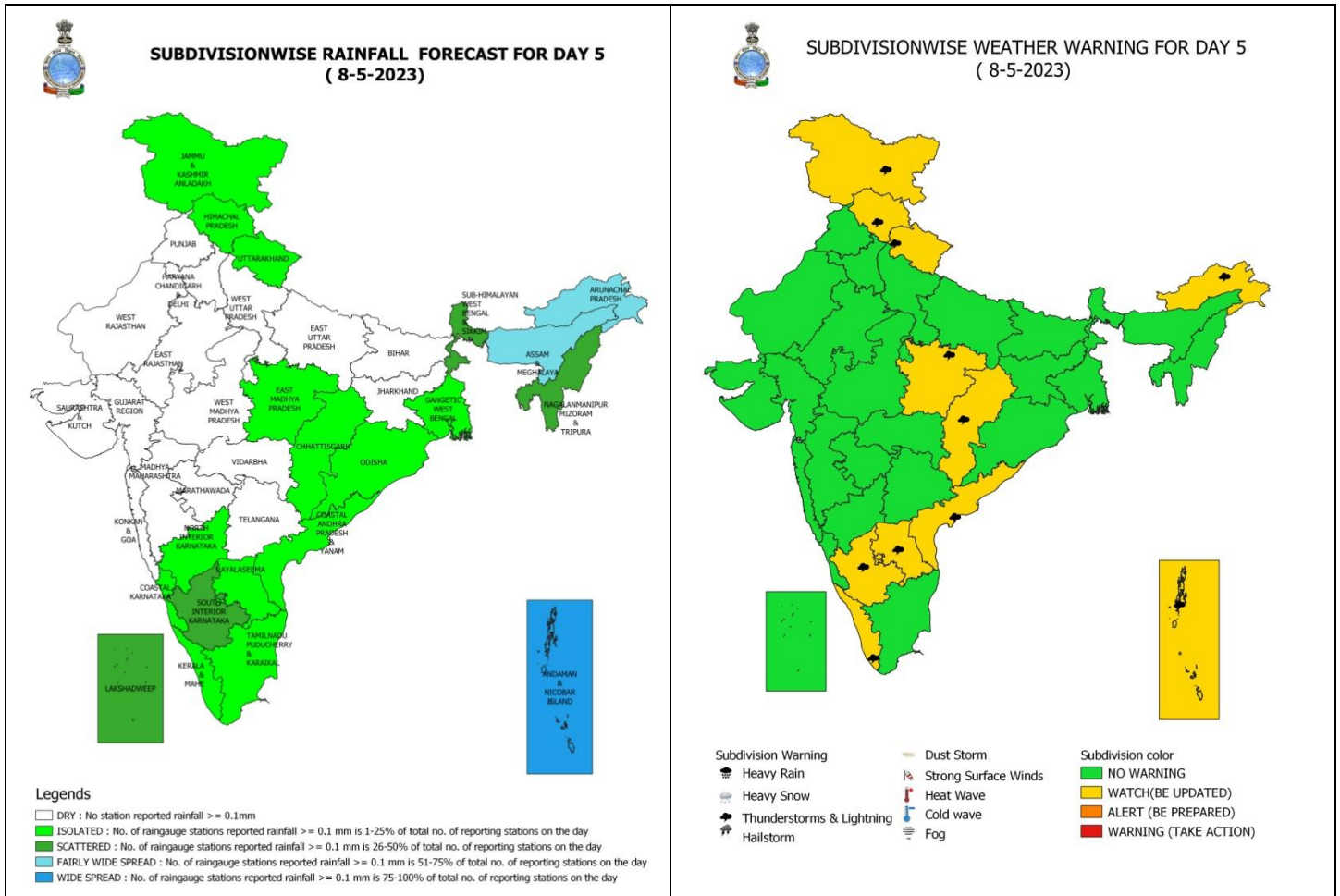
**♦ Squally Weather (wind speed reaching 40-45 kmph gusting to 55 kmph) very likely over Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.**

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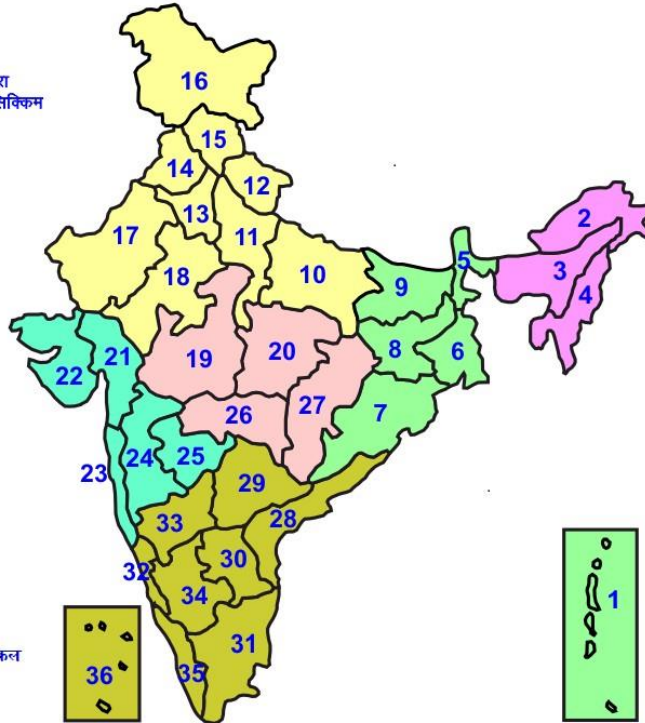


**08 May (Day 5): ♦ Thunderstorm with lightning** likely at isolated places Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Chhattisgarh, Arunachal Pradesh, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and South Interior Karnataka.

**♦ Squally Weather (wind speed reaching 45-55 kmph gusting to 65 kmph)** likely over Southeast & adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम 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. 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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

## Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

\* 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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm\*  
Extremely Heavy: > 204.4 mm/cm \*



Heat Wave

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .  
Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

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



Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .



Cold Wave

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

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

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

Cold Wave : When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$   
Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

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



Cold Day

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

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$



Fog

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

Moderate Fog: When the visibility between 500-200 metres  
Dense Fog: when the visibility between 50- 200 metres  
Very Dense Fog: when the visibility  $< 50$  metres



Thunderstorm

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



Dust/Sand Storm

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



Frost

Ice deposits on ground

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



Squall

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

Moderate: Wind speed 52-61 kmph  
Severe: Wind speed 62-87 kmph  
Very Severe: Wind speed  $> 87$  kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre  
High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre  
Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)  
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)  
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)  
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)  
Super Cyclone Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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