



Wednesday 05<sup>th</sup> April 2023  
MORNING  
Time of Issue: 0815 hours IST

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and Warnings:

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

- Light isolated/scattered rainfall over the Western Himalayan Region during next 2 days.

##### **East India:**

- Light isolated rainfall over the region during next 24 hours and dry weather thereafter.

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

- Light to moderate scattered/fairly widespread rainfall over the region during next 24 hours and gradual reduction thereafter.

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

- Light/moderate isolated rainfall over Vidarbha and Chhattisgarh during next 5 day with isolated thunderstorm/lightning during 06<sup>th</sup>-07<sup>th</sup> April.

##### **West India:**

- Light/moderate isolated rainfall with isolated thunderstorm/lightning over Southern parts of Madhya Maharashtra and Marathwada during 06<sup>th</sup>-08<sup>th</sup> April.

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

- Light/moderate isolated to scattered rainfall with isolated thunderstorm/lightning over Telangana and interior Karnataka during 06<sup>th</sup>-07<sup>th</sup> April and over Tamilnadu, Kerala and Coastal Andhra Pradesh during next 5 days.

#### Maximum Temperatures Forecast during next 5 days:

- Maximum temperatures are below normal by 2-4°C over most parts of north India. It is likely to rise by 3-5°C over most parts of North India becoming near to above normal during next 5 days.
- **No heat wave likely over any part of country during next 5 days.**

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

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## Main Weather Observations

- ◆ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at many places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **at a few places** over Himachal Pradesh and **at isolated places** over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe.
- ◆ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): Nil.
- ◆ **Significant amount of rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): **Jammu & Kashmir:** Pahalgaoon-1; **Odisha:** Balasore-1.
- ◆ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Himachal Pradesh, Uttarakhand, Chhattisgarh and Kerala.
- ◆ **Hailstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Odisha.
- ◆ **Minimum Temperature Departures (as on 04-04-2023):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over East Rajasthan and Saurashtra & Kutch; **above normal (1.6°C to 3.0°C)** at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Chhattisgarh, Odisha, Telangana and Tamil Nadu, Puducherry & Karaikal. They were **appreciably below normal (-3.1°C to -5.0°C)** at many places over Coastal Karnataka; at isolated places over Gangetic West Bengal; **below normal (-1.6°C to -3.0°C)** at many places over Himachal Pradesh, North Interior Karnataka; at a few places over Haryana, Chandigarh & Delhi, Assam & Meghalaya; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, West Rajasthan, Madhya Pradesh, Vidarbha, Konkan & Goa, Madhya Maharashtra and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 14.2°C** was reported at **Delhi-Ridge (Delhi)** over plains of the country.
- ◆ **Maximum Temperature Departures (as on 04-04-2023):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Bihar. They were **markedly below normal (-5.1°C or less)** at a few places over Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya; **appreciably below normal (-3.1°C to -5.1°C )** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, West Rajasthan; at a few places over Uttar Pradesh; at isolated places over East Rajasthan, West Madhya Pradesh, Kerala & Mahe; **below normal (-1.6°C to -3.0°C)** at most places over Uttarakhand; at many places over Gujarat State; at a few places over East Madhya Pradesh, Andaman & Nicobar Islands, Rayalaseema; at isolated places over Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 40.4°C** was reported at **Chandrapur (Vidarbha)** and **Kurnool (Rayalaseema)**.



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

- ◆ 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. 62°E to the north of Lat. 32°N.
- ◆ The north-south **trough/wind discontinuity** from Jharkhand to south interior Tamil Nadu across interior Odisha, Coastal Andhra Pradesh and Rayalaseema at 0.9 km above mean sea level persists.
- ◆ The **cyclonic circulation** over south Assam & neighbourhood at 0.9 km above mean sea level persists.
- ◆ The **trough** from Sikkim to south Bangladesh extending upto 1.5 km above mean sea level persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 10th April, 2023

- ◆ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ◆ **Northwest & East India:** Gradual rise in Maximum Temperatures by 2-4<sup>0</sup>C very likely during next 5 days.
- ◆ **Central India:** Gradual rise by 2-4<sup>0</sup>C in Maximum Temperatures very likely during next 2 days and no significant change during subsequent 3 days.
- ◆ **Gujarat state:** No significant change in Maximum Temperatures very likely during next 2 days and rise by 2-4<sup>0</sup>C thereafter.
- ◆ **Maharashtra:** Gradual rise in Maximum Temperatures by 2-4<sup>0</sup>C during next 2 days and no significant change thereafter.
- ◆ **Rest parts of the Country:** No significant change in Maximum Temperatures very likely during next 5 days.

### Weather Outlook for subsequent 2 days during 10th-12th April, 2023

- ◆ Isolated light rainfall/thundershowers likely over Arunachal Pradesh, Madhya Maharashtra, Madhya Pradesh and Kerala & Mahe.
- ◆ Dry weather likely over rest parts of the country.



## Weather Warning during next 5 days

**05 April (Day 1): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** very likely at isolated places over West Rajasthan, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and **with lightning** over Chhattisgarh, Gujarat state, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

**06 April (Day 2): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Vidarbha, Chhattisgarh, Telangana, Kerala & Mahe, over Interior Karnataka, Madhya Maharashtra and Marathwada and **with lightning** over Rayalaseema.

**07 April (Day 3): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Vidarbha, Chhattisgarh, Telangana, Interior Karnataka Kerala & Mahe, Madhya Maharashtra, Marathwada and **with lightning** over Konkan & Goa and Odisha.

**08 April (Day 4): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Madhya Maharashtra, Marathwada, Kerala & Mahe and **with lightning** over Telangana.

**09 April (Day 5): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Kerala & Mahe.

Kindly download **MAUSAM APP** for location specific forecast & warning, **MEGHDOOT APP** for Agromet advisory and **DAMINI APP** for Lightning Warning & visit state MC/RMC websites for district wise warning.



Table-1

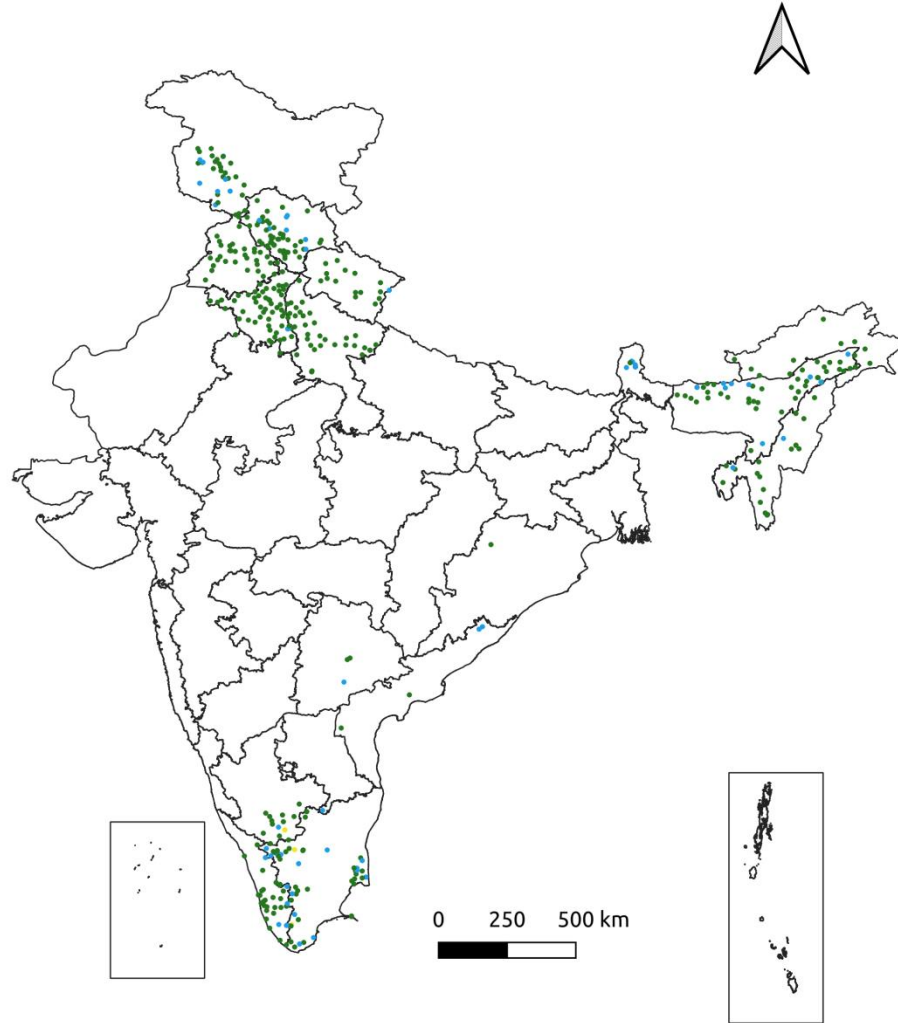
<b>5 Day Rainfall Forecast (MORNING)</b>						
S. No.	Subdivision	05-Apr	06-Apr	07-Apr	08-Apr	09-Apr
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLAND	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	FWS	SCT	ISOL	ISOL	ISOL
3	ASSAM & MEGHALAYA	SCT	ISOL	ISOL	ISOL	ISOL
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	ISOL	DRY	DRY	DRY
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	ISOL	ISOL	ISOL	ISOL
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY
7	ODISHA	ISOL	ISOL	SCT	ISOL	ISOL
8	JHARKHAND	DRY	DRY	DRY	ISOL	ISOL
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	ISOL	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	SCT	ISOL	DRY	DRY	DRY
16	JAMMU & KASHMIR AND LADAKH	ISOL	ISOL	DRY	DRY	DRY
17	WEST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY
21	GUJARAT REGION	ISOL	ISOL	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	ISOL	ISOL	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	SCT	SCT	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	DRY	DRY	DRY
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	DRY	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	SCT	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	SCT	ISOL	ISOL
35	KERALA & MAHE	SCT	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	SCT	SCT	SCT	DRY	DRY

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

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



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 3-4-2023 to 0830 IST of 4-4-2023



### Legends

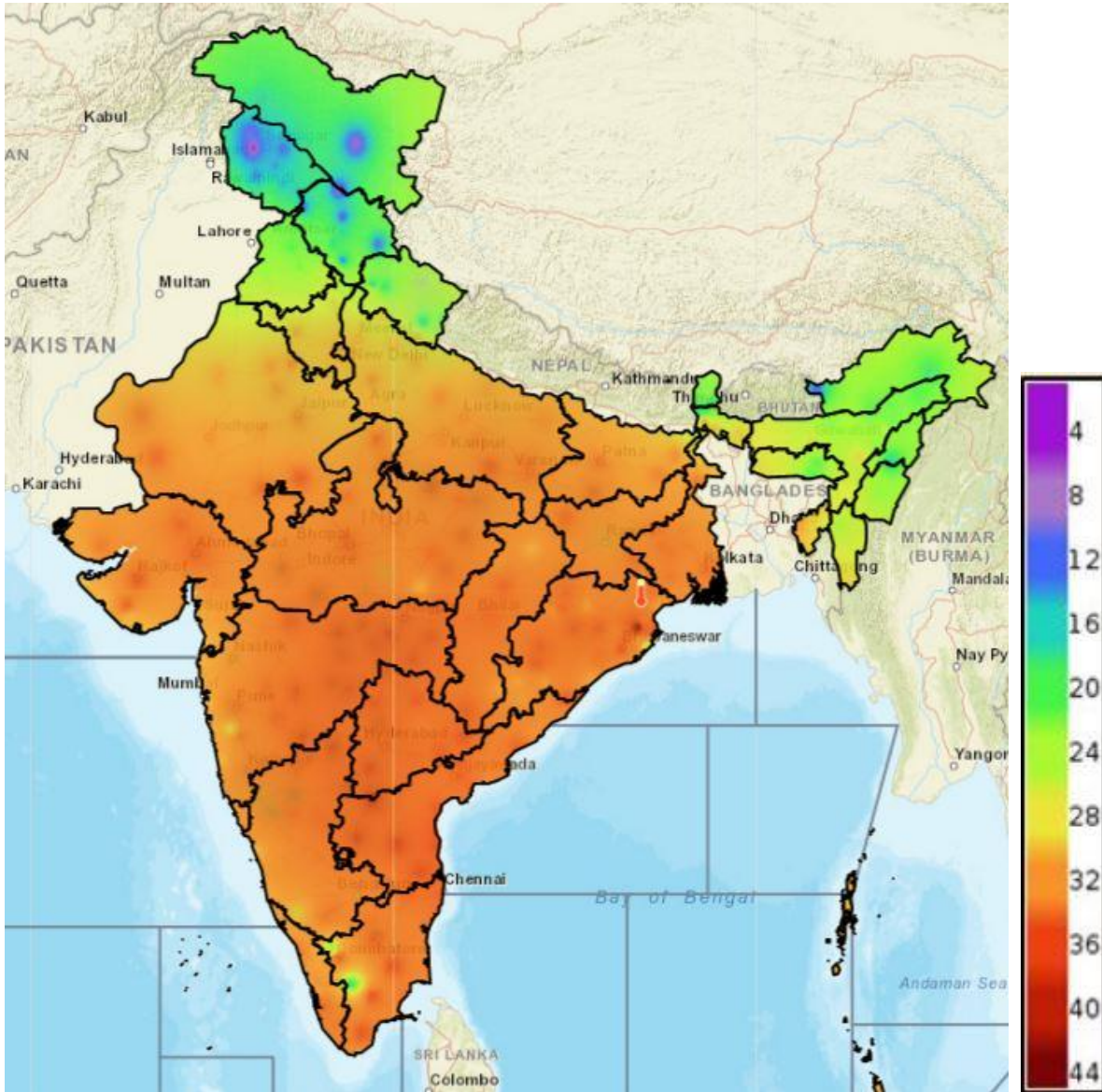
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall ( $\geq 204.5$  mm)

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

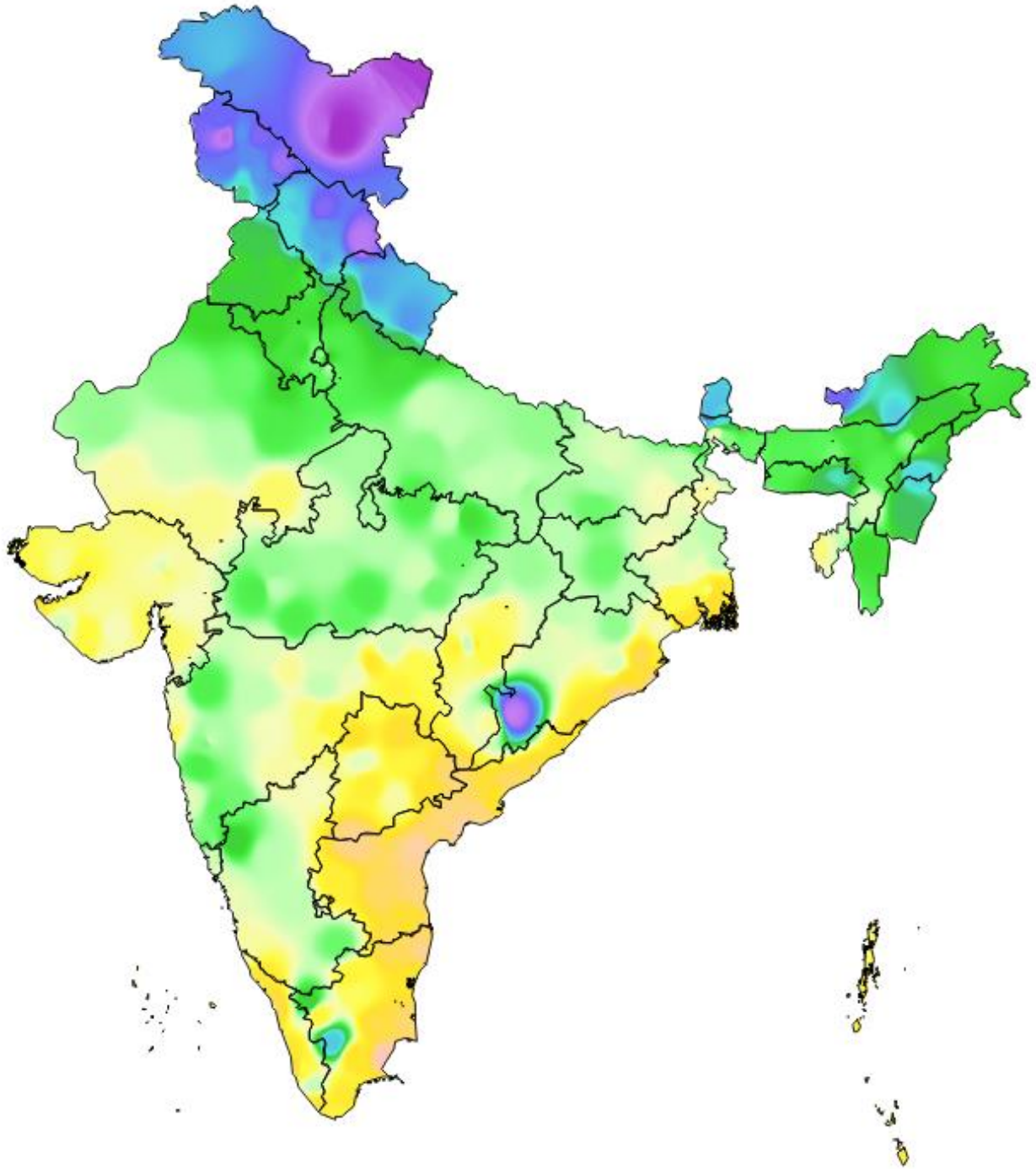
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Fig. 2: Maximum Temperature during past 24 hours



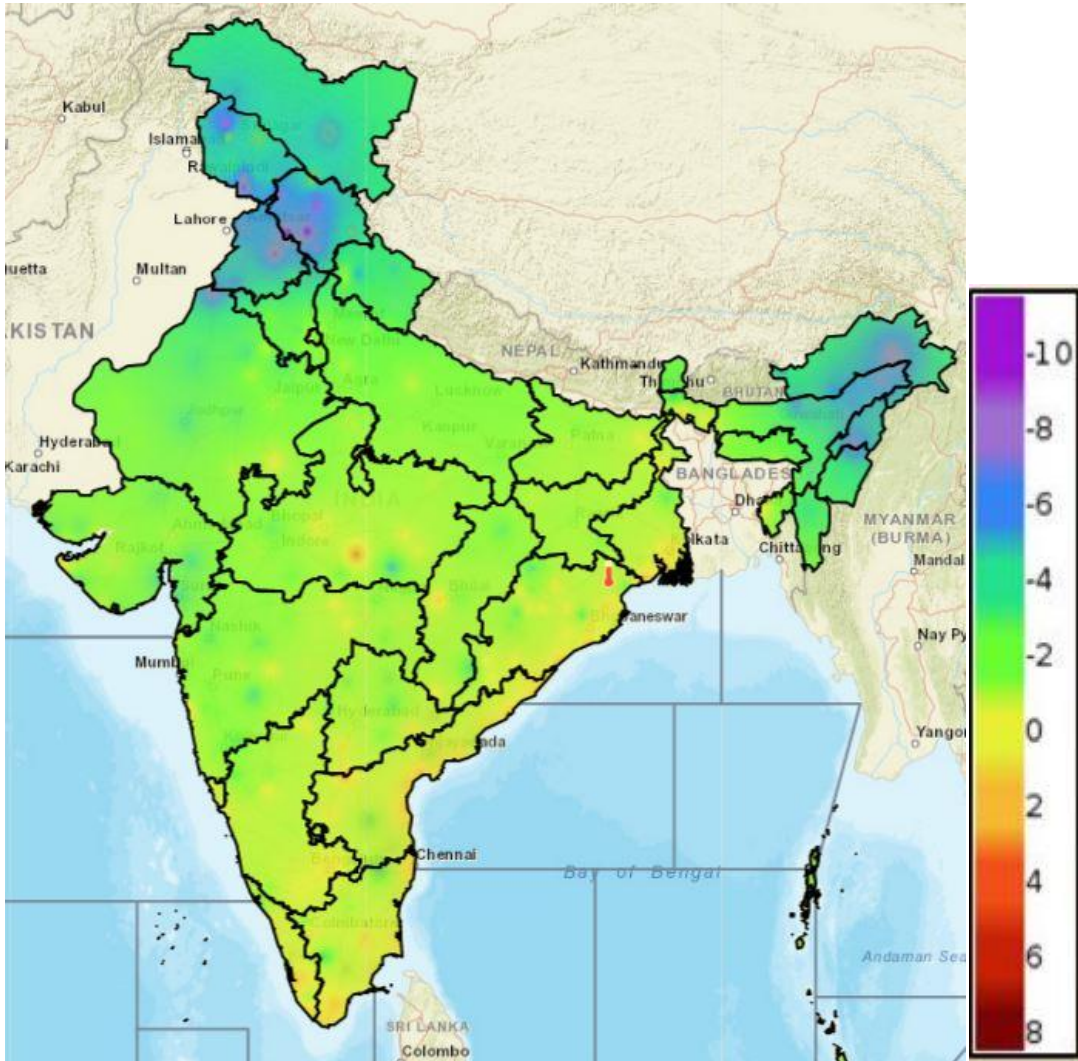
**Fig. 3: Minimum Temperature during past 24 hours**  
**Min Temperature (0830 IST) Dated:4-4-2023.**



Legend:Min Temperature (°C)



Fig. 4: Departure from Normal of Maximum Temperatures



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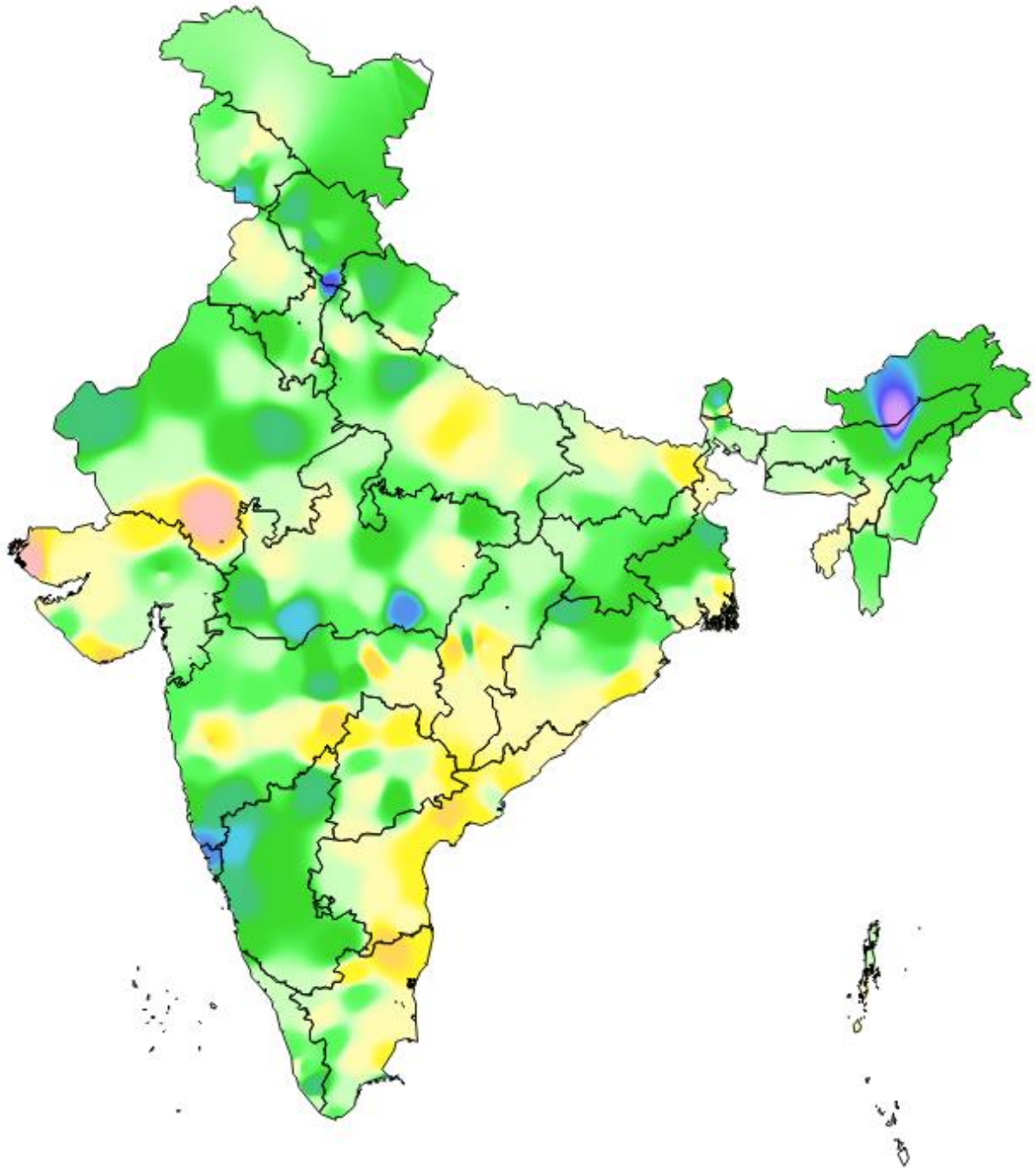
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Fig. 5: Departure from Normal of Minimum Temperatures

Min Departure Map from Norm (0830 IST) Dated:4-4-2023.



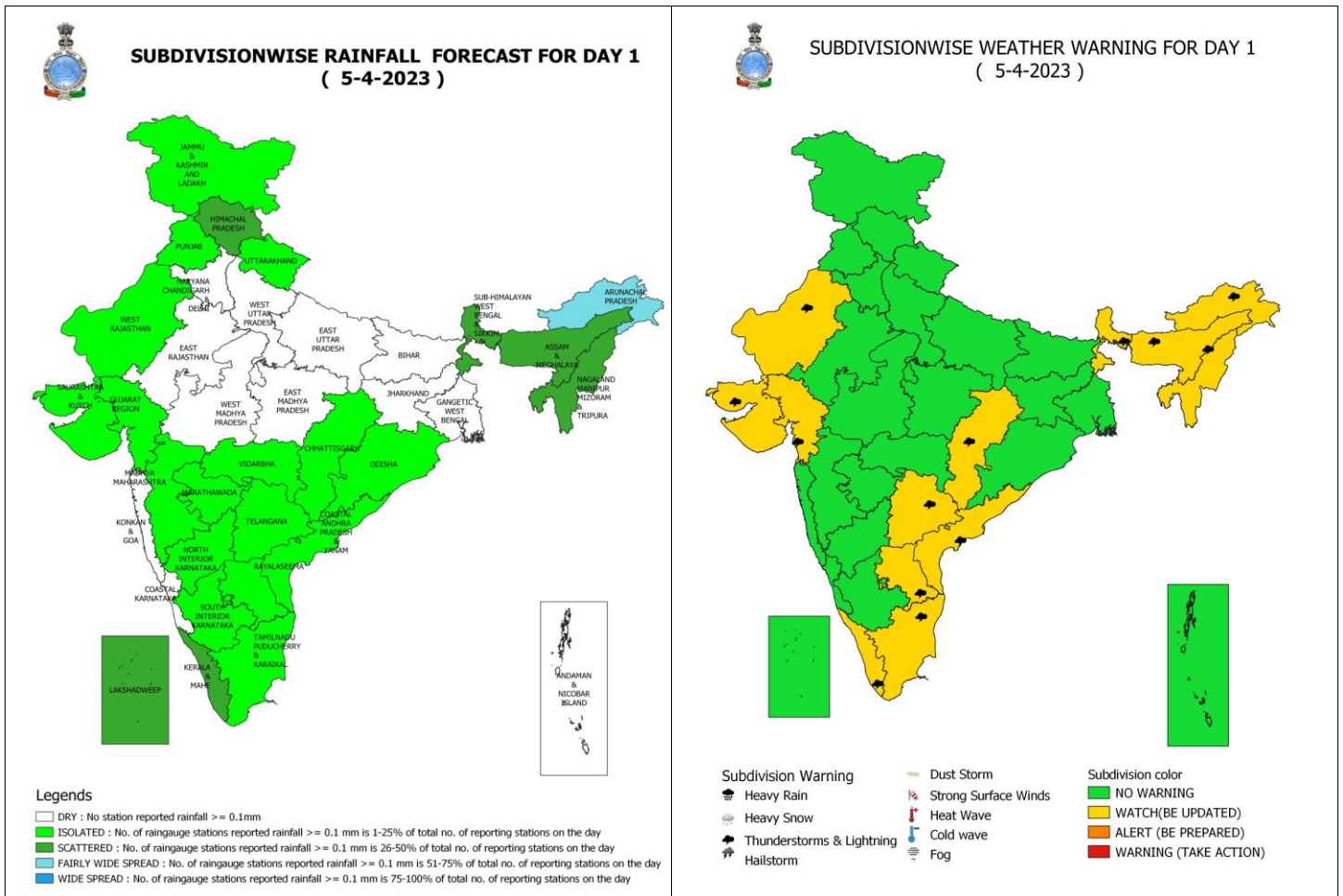
Legend: Temperature Departure (°C)



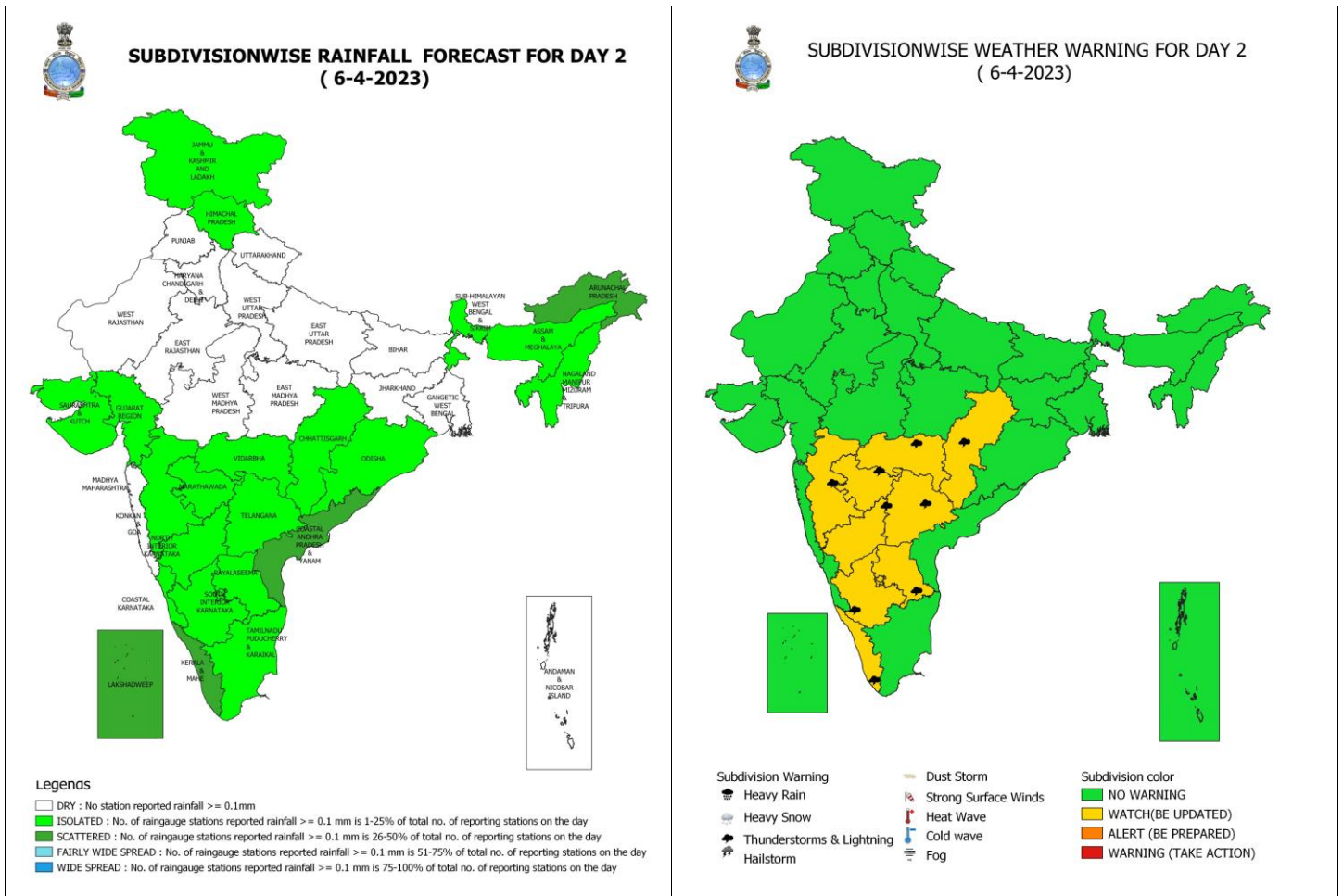
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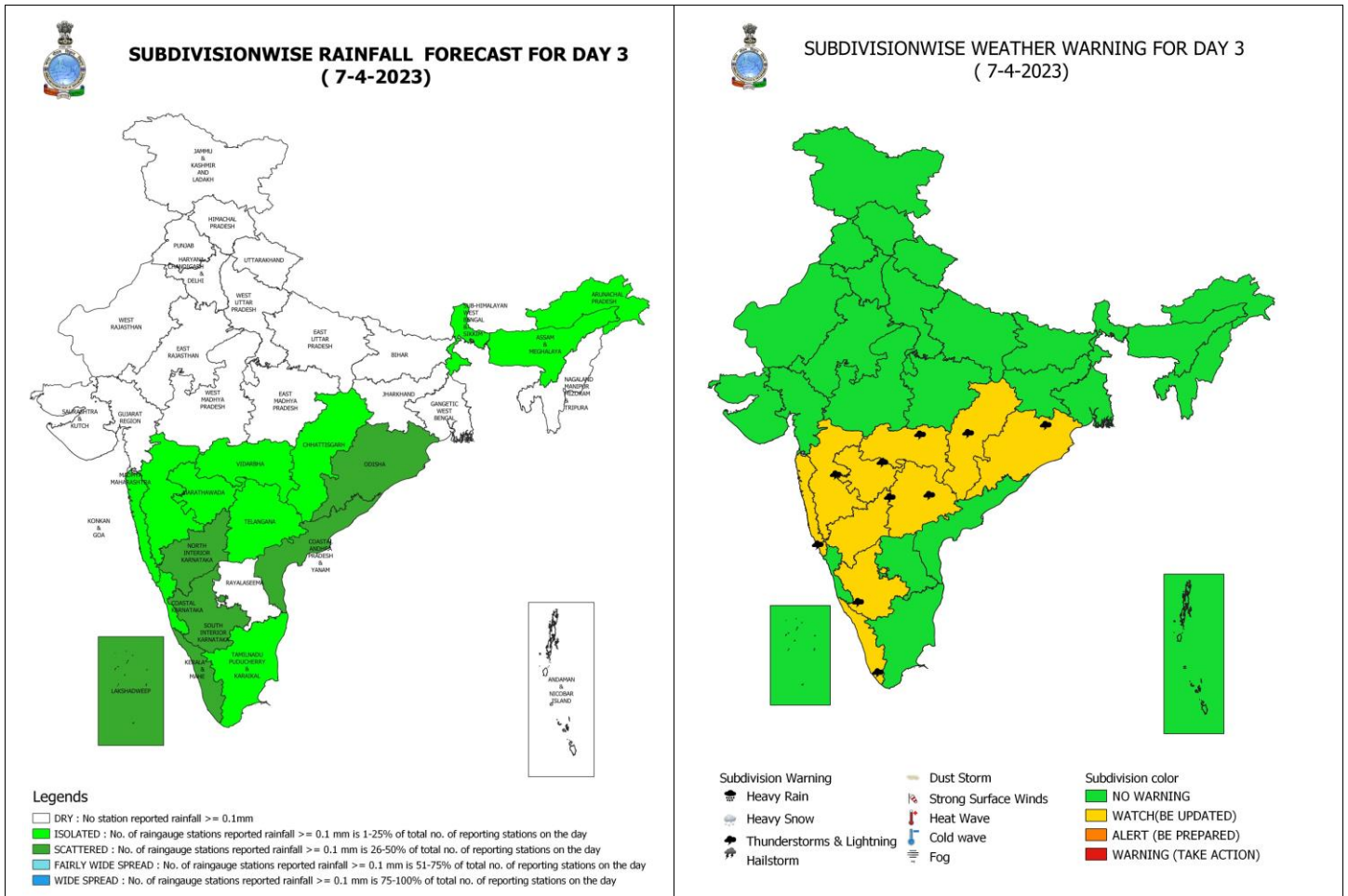
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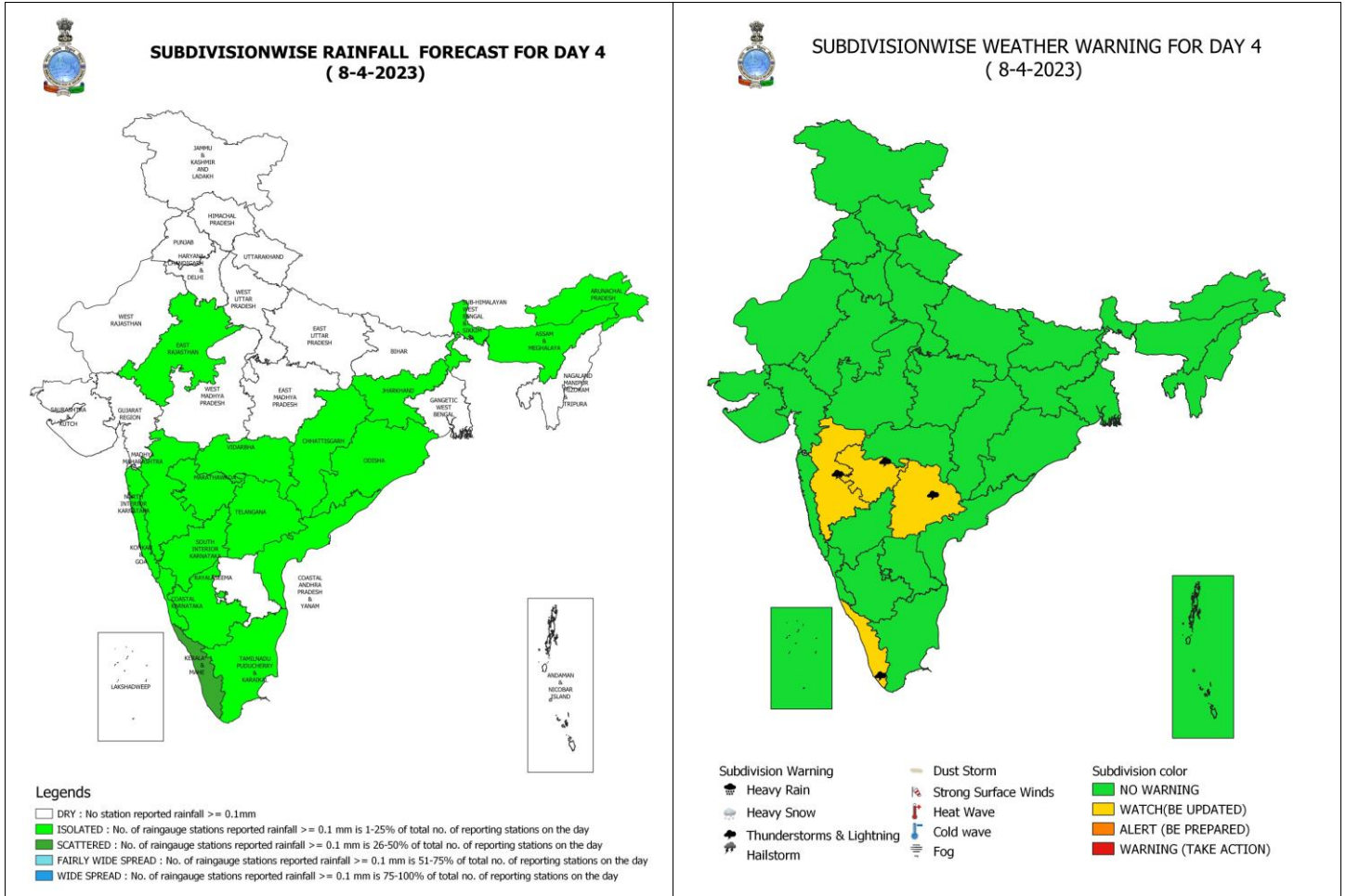
**05 April (Day 1):** ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** very likely at isolated places over West Rajasthan, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and **with lightning** over Chhattisgarh, Gujarat state, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.



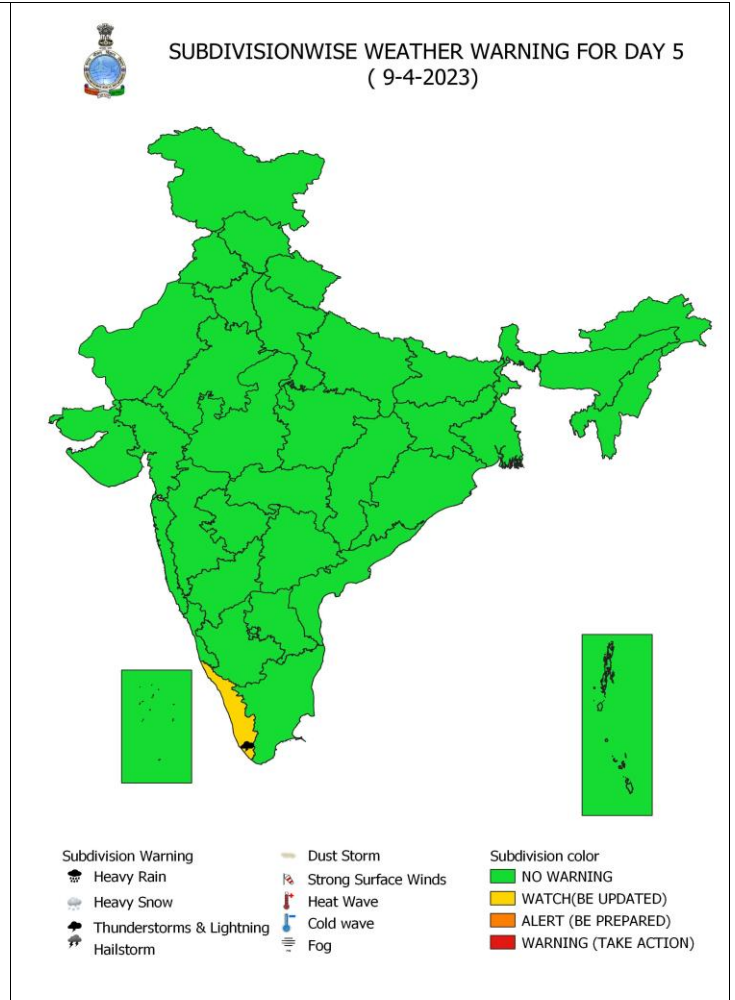
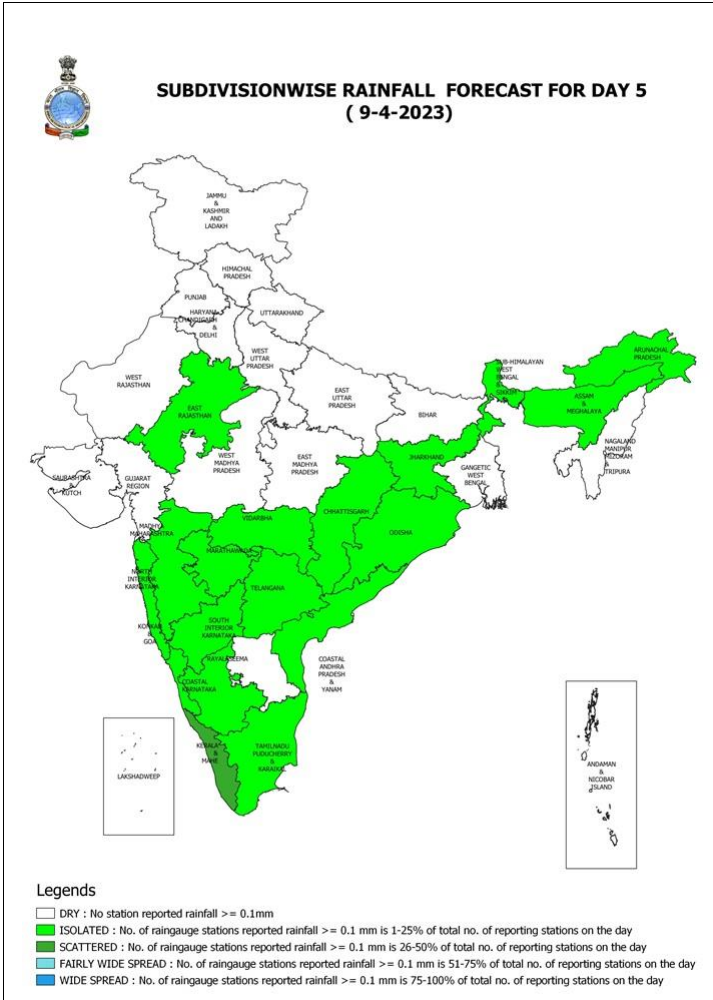
**06 April (Day 2): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) likely at isolated places over Vidarbha, Chhattisgarh, Telangana, Kerala & Mahe, over Interior Karnataka, Madhya Maharashtra and Marathawada and with lightning over Rayalaseema.**



**07 April (Day 3):** ♦ **Thunderstorm accompanied with lightning & gusty wind (30-40 kmph)** likely at isolated places over Vidarbha, Chhattisgarh, Telangana, Interior Karnataka Kerala & Mahe, Madhya Maharashtra, Marathawada and **with lightning** over Konkan & Goa and Odisha.



**08 April (Day 4): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) likely at isolated places over Madhya Maharashtra, Marathwada, Kerala & Mahe and with lightning over Telangana.**



**09 April (Day 5): ♦ Thunderstorm accompanied with lightning & gusty wind (30-40 kmph) likely at isolated places over Kerala & Mahe.**

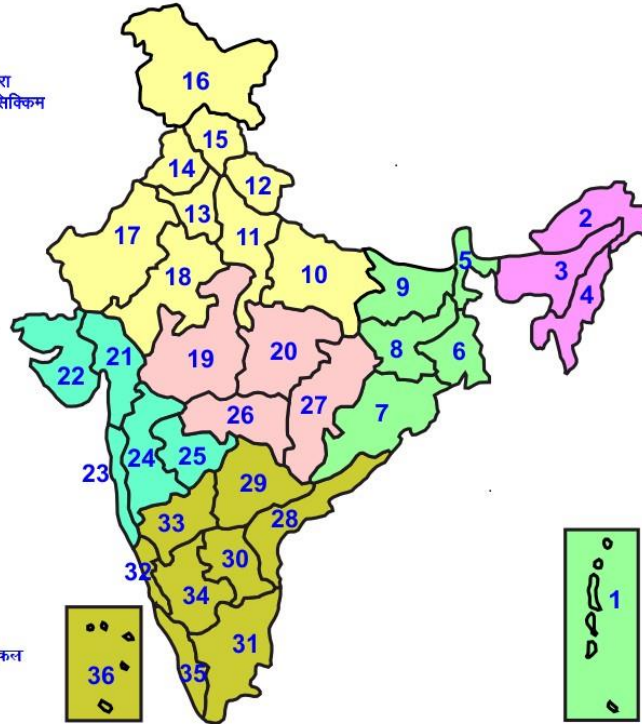
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## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एंवम् सिक्किम
- 6 पश्चिम गॉंगेय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एंवम् यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् 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

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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)

\* 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

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798