

## Current Temperature Status and Heat Wave Warning

Dated: 18<sup>th</sup> April, 2024

Time of Issue: 1645 Hrs IST

### ♦ Observed Temperature Scenario:-

#### Maximum Temperature & its departure (Yesterday) (Annexure 1):-

- Yesterday, maximum temperatures were in the range of 42-43°C over many parts of Coastal Andhra Pradesh & Yanam, south Odisha, Rayalaseema; at a few places over Gujarat state, Madhya Maharashtra and Telangana; 40-42°C over many places over Vidarbha & Marathwada; at a few places over west Madhya Pradesh, Jharkhand, Chhattisgarh, Gangetic West Bengal at isolated pockets over Uttar Pradesh, south east Madhya Pradesh, North Interior Karnataka and interior Tamil Nadu, Puducherry & Karaikal. These were above normal by 3-5°C at many places over Saurashtra & Kutch and above normal by 2-3°C over many parts in rest of the above areas.
- **Yesterday's Highest Maximum Temperature on Plains:** 44.0°C at Amreli (Saurashtra & Kutch).
- **Markedly above normal (5.1°C or more):-** At isolated places over Saurashtra & Kutch.
- **Appreciably above normal (3.1°C to 5.0°C):-** At many places over Gangetic West Bengal; at a few places over Odisha and Rayalaseema; at isolated places over Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- **Above normal (1.6°C to 3.0°C):-** At many places over Konkan & Goa and Madhya Maharashtra; at a few places over Chhattisgarh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Nagaland, Manipur, Mizoram & Tripura, Bihar, Madhya Pradesh, Vidarbha, Coastal & South Interior Karnataka, Kerala & Mahe and Assam & Meghalaya.

#### Minimum Temperature & its departure (Today) (Annexure 2):-

- **Markedly above normal (5.1°C or more):-** At isolated places over Madhya Maharashtra.
- **Appreciably above normal (3.1°C to 5.0°C):-** At a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Haryana-Chandigarh-Delhi, Gangetic West Bengal, Gujarat state, Konkan & Goa and Rayalaseema.
- **Above normal (1.6°C to 3.0°C):-** At many places over Punjab, Marathwada, North Interior Karnataka and Kerala & Mahe; at a few places over East Madhya Pradesh, Chhattisgarh, Telangana, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands; at isolated places over Himachal Pradesh, West Rajasthan, East Uttar Pradesh, Bihar and Sub-Himalayan West Bengal & Sikkim.

- ♦ **Heat wave conditions:-** Yesterday, **Heat Wave to Severe Heat wave conditions** prevailed in isolated pockets over Saurashtra & Kutch and **Heat Wave conditions** in isolated pockets over Gangetic West Bengal and Odisha.

♦ **Warm night conditions:-** Warm Night conditions prevailed in isolated pockets over Madhya Maharashtra.

♦ **Percentile Temperature (Annexure 3) :-**

♦ **Temperatures Recorded at 1430 Hours IST of Today, the 18<sup>th</sup> April, 2024 (Annexure 4) :-**

♦ **Wind Speed & Relative Humidity Recorded at 1430 Hours IST of Today (Annexure 5) :-**

♦ **Maximum Temperatures Forecast :-**

- Rise in maximum temperatures by 2-3°C very likely over East India during next 2 days and no significant change thereafter.
- Gradual fall in maximum temperatures by 2-3°C very likely over Gujarat during next 4-5 days.
- No significant change in maximum temperatures very likely over Maharashtra during next 24 hours and fall by 2-3°C for subsequent 4 days.
- No significant change in maximum temperatures very likely over rest parts of the country.

## Hot Weather Warnings for Next 5 Days

### DAY-1:-

- ❖ Hot and humid weather very likely to prevail over Gujarat state, Konkan and Kerala & Mahe.
- ❖ Heat wave to severe heat wave very likely to prevail in isolated pockets over Odisha, Heat wave in isolated pockets over Gangetic West Bengal, Jharkhand, Madhya Maharashtra, Marathwada, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- ❖ Warm Night very likely to prevail in isolated pockets over Rayalaseema.

### DAY-2:-

- ❖ Hot and humid weather very likely to prevail over Konkan.
- ❖ Heat wave to severe heat wave very likely to prevail in some pockets over Gangetic West Bengal; in isolated pockets over Odisha; heat wave in isolated pockets over Jharkhand, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- ❖ Warm Night very likely to prevail in isolated pockets over Rayalaseema.

### DAY-3:-

- ❖ Hot and humid weather very likely to prevail over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- ❖ Heat wave to severe heat wave very likely to prevail in some pockets over Gangetic West Bengal; heat wave in isolated pockets over Bihar, Jharkhand, Odisha.

### DAY-4:-

- ❖ Hot and humid weather likely to prevail over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- ❖ Heat wave to severe heat wave likely to prevail in isolated pockets over Gangetic West Bengal; heat wave in isolated pockets over Bihar, Jharkhand and Odisha.

### DAY-5:-

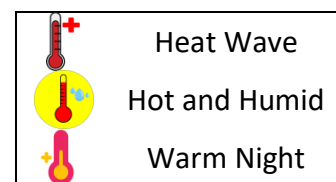
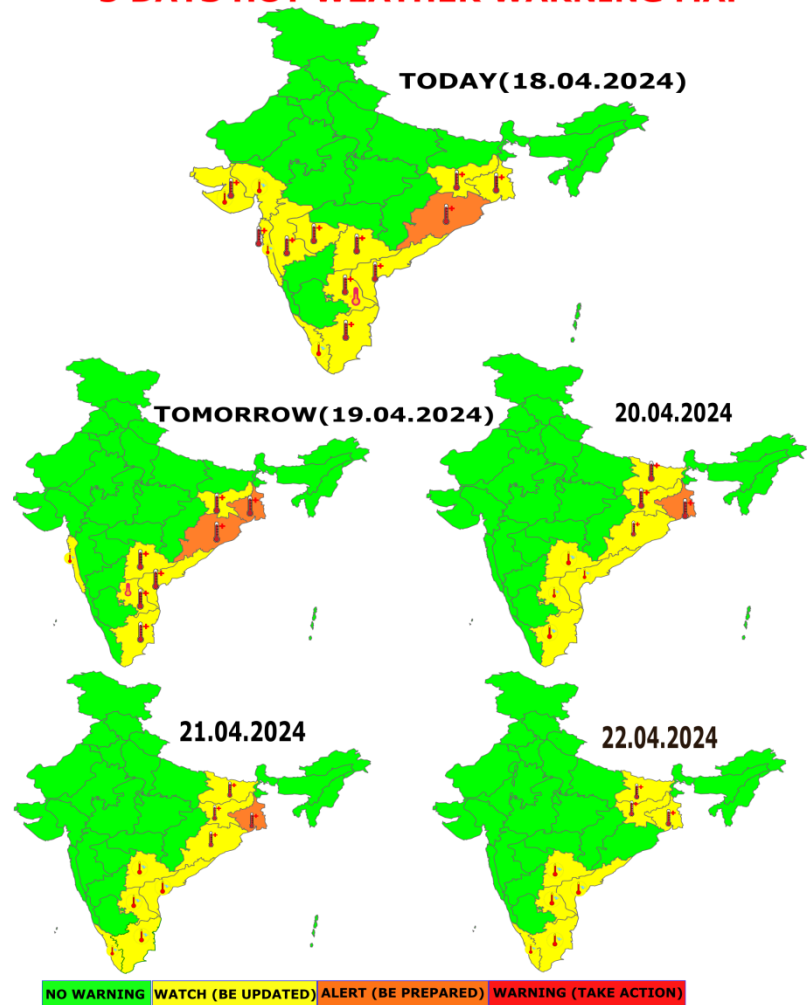
- ❖ Hot and humid weather likely to prevail over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.
- ❖ Heat wave likely to prevail in isolated pockets over Gangetic West Bengal, Bihar and Jharkhand.

### IMPACT & ACTION SUGGESTED:

#### Yellow alert Areas:

1. Moderate temperature, Heat is tolerable for general public but moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
2. Avoid heat exposure, Wear light weight, light coloured, loose, cotton clothes, Cover your head, Use a cloth, hat or umbrella.

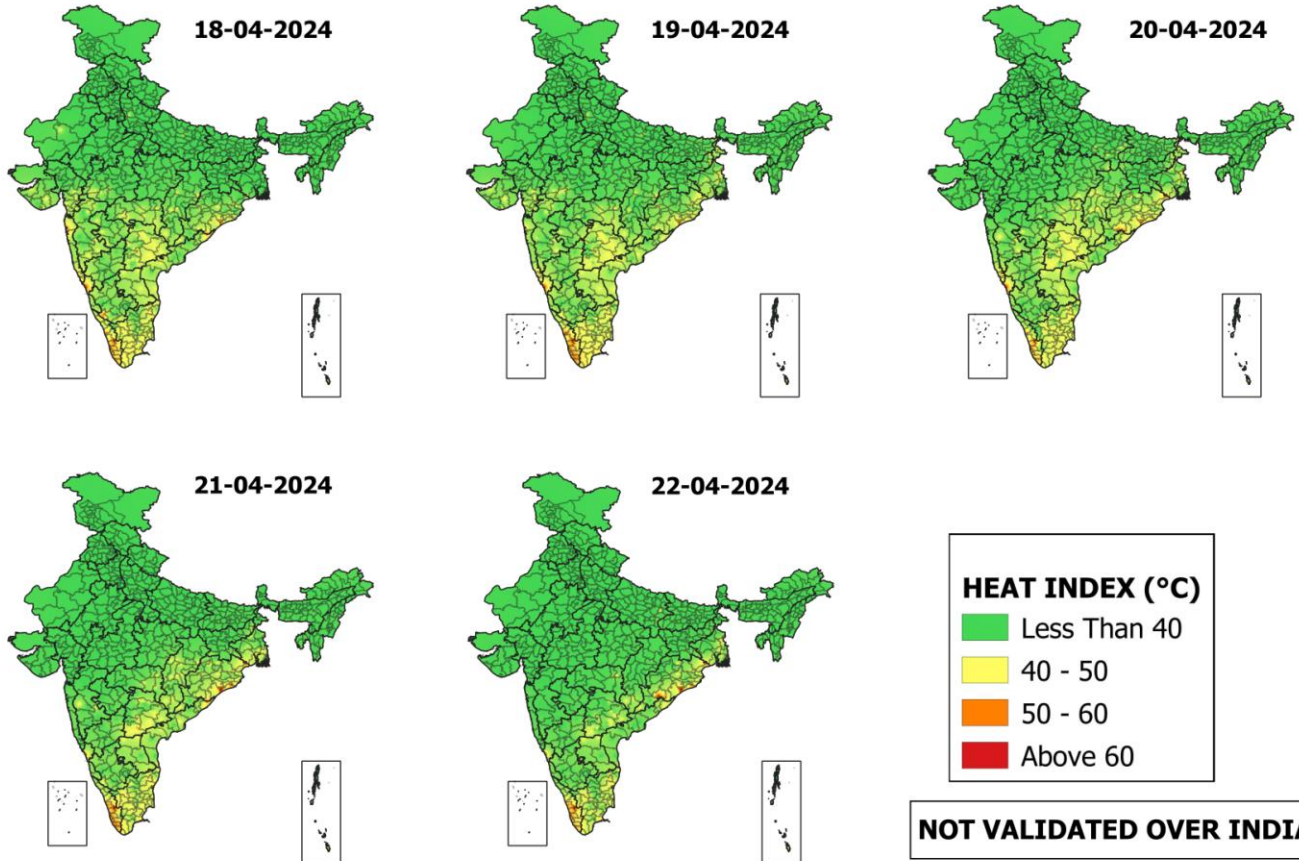
## 5 DAYS HOT WEATHER WARNING MAP



#### Orange alert Areas:

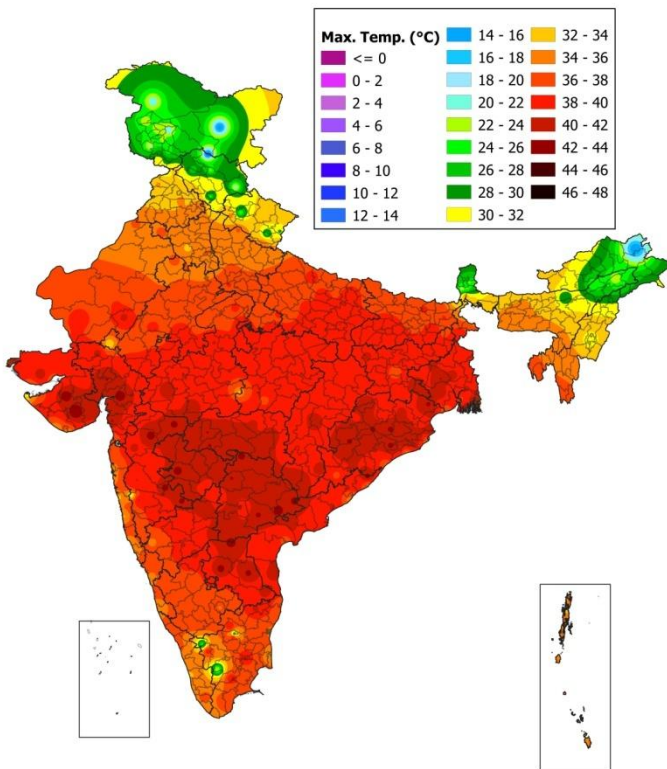
1. High temperature, Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work. High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
2. Drink sufficient water- even if not thirsty, Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

## HEAT INDEX (EXPERIMENTAL FORECAST) DATED 18-04-2024

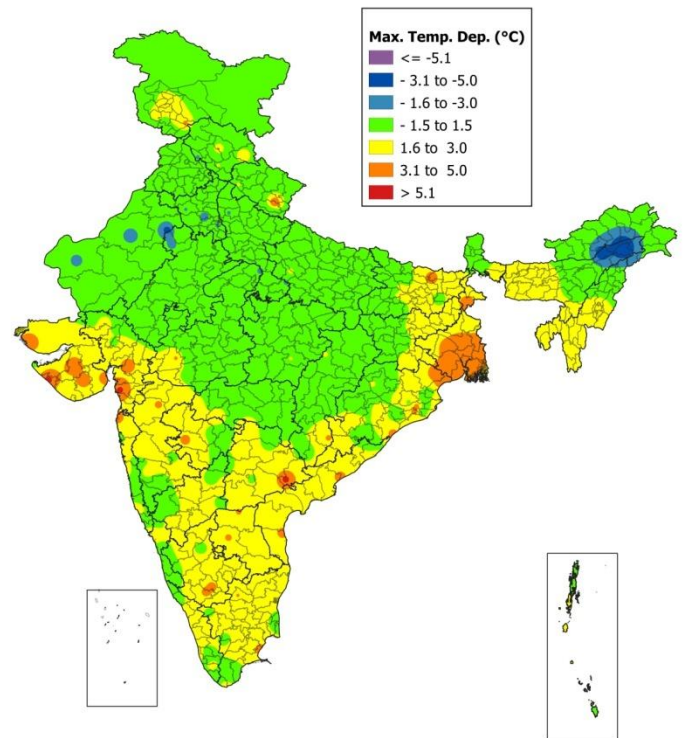


## Annexure 1

**Maximum Temperature Dated 17/04/2024**



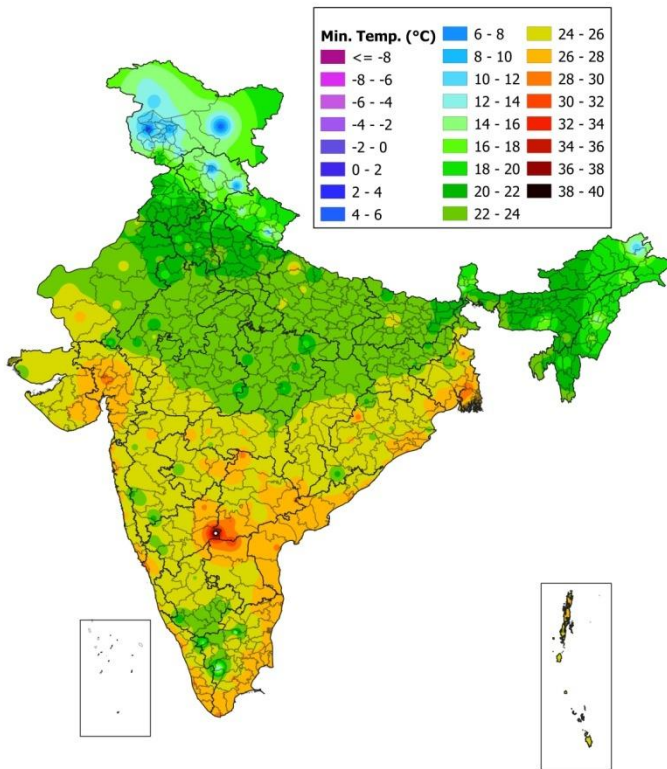
**Max Temperature Departure Dated 17/04/2024**



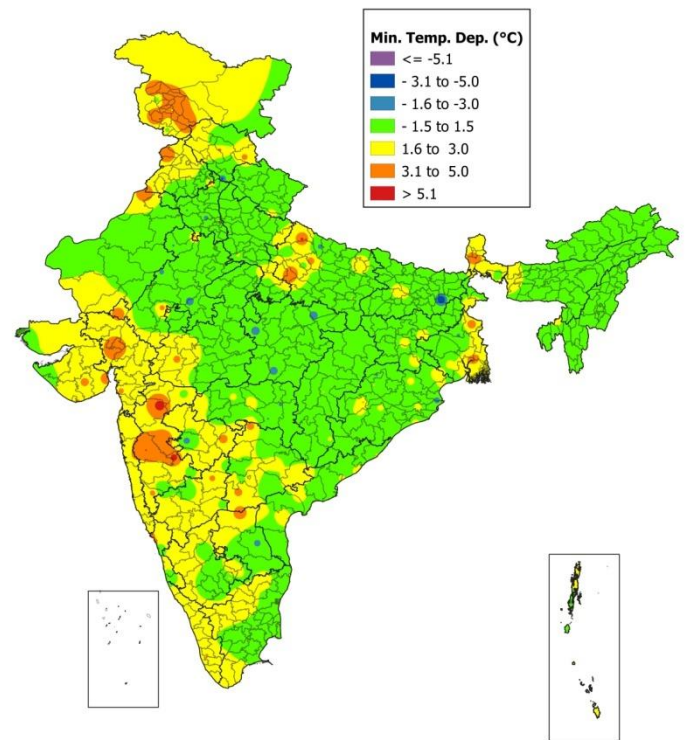


Annexure 2

Minimum Temperature Dated 18/04/2024

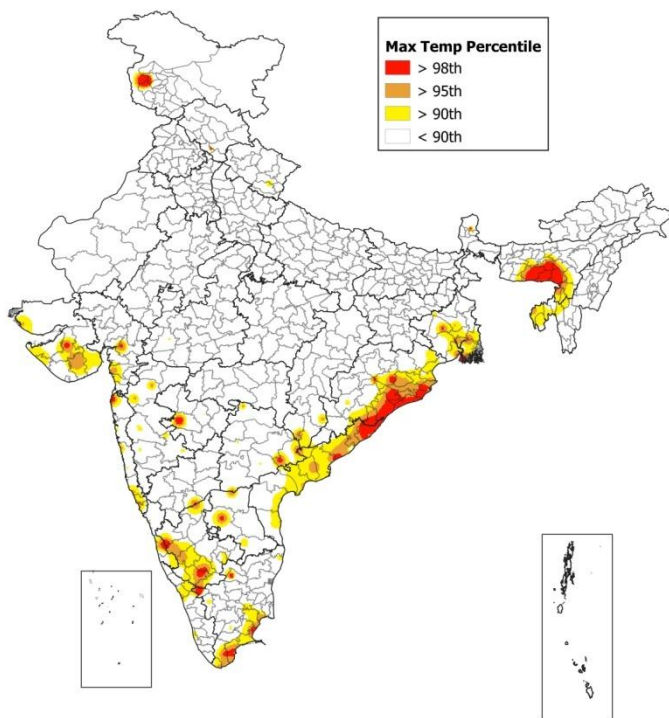


Min Temperature Departure Dated 18/04/2024

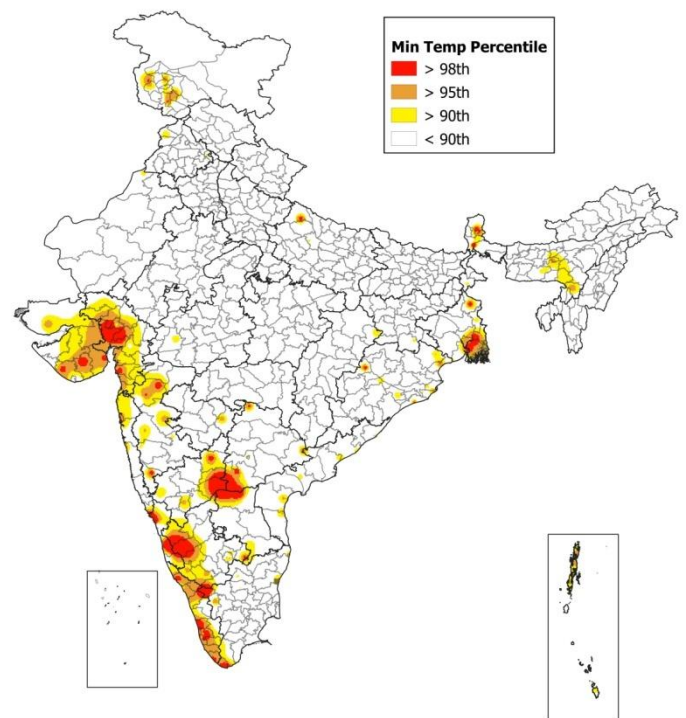


**Annexure 3**

**Max Temp Percentile Dated 17/04/2024**



**Min Temp Percentile Dated 18/04/2024**





राष्ट्रीय मौसम पूर्वानुमान केन्द्र  
भारत मौसम विज्ञान विभाग  
पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre  
India Meteorological Department  
Ministry of Earth Sciences

#### Annexure 4

NA

NA



Annexure 5

NA

NA

For Districtwise heat wave warning visit:

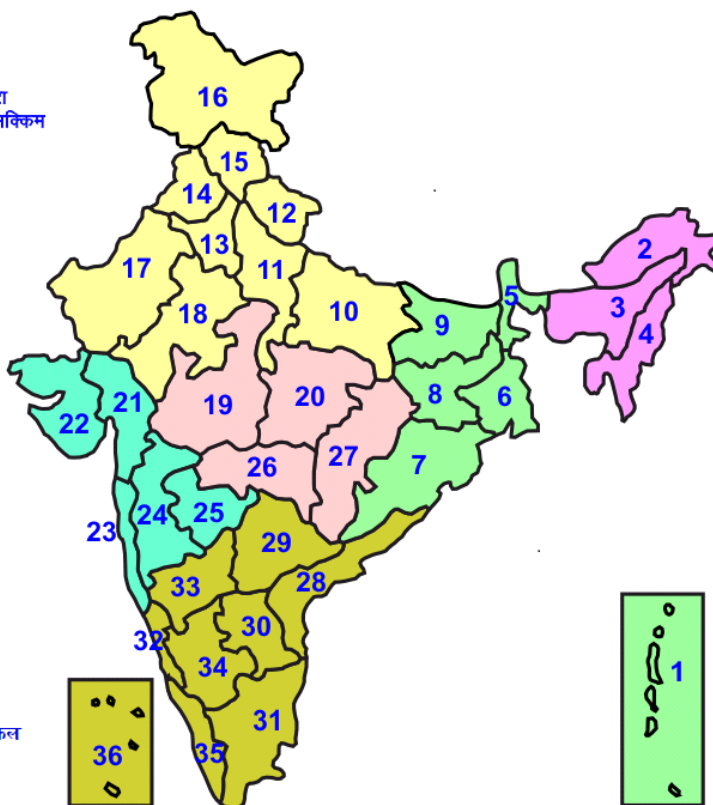
<https://mausam.imd.gov.in/responsive/districtWiseHeatwaveWarning.php>

For GIS Based Heat Wave Warning visit:

[http://103.215.208.18/dwr\\_img/GIS/heatwave.html](http://103.215.208.18/dwr_img/GIS/heatwave.html)

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 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

### 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

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  $\geq 37^\circ \text{C}$

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  $> 6.4^\circ \text{C}$ .

**Heat Wave**

**Warm Night**

**Hot and Humid:** When maximum temperatures remains  $3^\circ \text{C}$  above normal along with the above normal relative humidity.