



#### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

### **Current Temperature Status and Heat Wave Warning**

Dated: 20th April, 2024

Time of Issue: 1630 Hrs IST

#### **♦ Observed Temperature Scenario:**-

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

- Yesterday, maximum temperatures were in the range of 42-44°C over many parts of Vidarbha, Marathwada, Rayalaseema over some parts of Madhya Maharashtra, Telangana, Chhattisgarh, Odisha, north Madhya Pradesh and Gangetic West Bengal and in isolated pockets over East Uttar Pradesh & Jharkhand. These were in the range of 40-42°C some parts of East Madhya Pradesh, East Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal and at isolated pockets over Bihar and West Madhya Pradesh. These were above normal by 2-4°C over many parts of Gangetic West Bengal and in isolated pockets over Bihar, Jharkhand, East Uttar Pradesh, Chhattisgarh, Odisha, Telangana, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Uttarakhand, Vidarbha and Madhya Pradesh.
- Yesterday's Highest Maximum Temperature on Plains: 44.3°C at Nandyal (Rayalaseema) & Boudh (Odisha).
- Markedly above normal (5.1°C or more):- NIL.
- Appreciably above normal (3.1°C to 5.0°C):- At many places over Gangetic West Bengal; at isolated pockets over East Uttar Pradesh, Bihar.
- Above normal (1.6°C to 3.0°C):- At many places over, East Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Jharkhand, Uttarakhand; at a few places over Kerala & Mahe, South Interior Karnataka, Vidarbha, Madhya Maharashtra, Marathwada; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, Chhattisgarh.

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

- Markedly above normal (5.1°C or more):- NIL.
- Appreciably above normal (3.1°C to 5.0°C):- At many places over Madhya Maharashtra; at isolated places over East Uttar Pradesh, West Madhya Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, North Interior Karnataka, Telangana, Rayalaseema.
- **Above normal (1.6°C to 3.0°C)**:- At most places over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal; at many places over Jharkhand, Coastal Andhra Pradesh & Yanam; at a few places over West Bengal & Sikkim, East Rajasthan; at isolated places over Uttarakhand, Haryana, Assam & Meghalaya.





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- ◆ Heat wave conditions:- Yesterday, Heat Wave conditions prevailed in many parts with severe heat wave conditions in some parts over Gangetic West Bengal; Heat Wave conditions in some areas over Odisha and in isolated places over Telangana and Tamil Nadu.
- ♦ Warm night conditions:- Warm Night to severe warm night conditions with day maximum temperature exceeding 40°C (from 0830 hours IST of yesterday to 0830 hours IST of today): prevailed in isolated pockets over East Uttar Pradesh and Madhya Maharashtra.
- ◆ Percentile Temperature (Annexure 3) :-
- ♦ Temperatures Recorded at 1430 Hours IST of Today, the 20<sup>th</sup> April, 2024 (Annexure 4):-
- Jamshedpur (Jharkhand) recorded the highest temperature of 44.4°C.
- ♦ 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 Uttar Pradesh during next 24 hours and no significant change thereafter.
  - No significant change in maximum temperatures very likely over West India during next 2 days and rise by 2-3°C thereafter.
  - No significant change in maximum temperatures very likely over rest parts of the country.



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## **Hot Weather Warnings for Next 5 Days**

#### DAY-1:-

- Hot and humid weather very likely to prevail over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Kerala & Mahe and Madhya Maharashtra.
- Heat wave conditions in some parts with severe heat wave conditions very likely to prevail in isolated pockets over Gangetic West Bengal; Heat wave to severe heat wave conditions in isolated pockets over Odisha; heat wave conditions in isolated pockets over East Uttar Pradesh, Bihar, Jharkhand & interior Tamil Nadu.
- Warm Night conditions very likely to prevail in isolated pockets over East Uttar Pradesh, north Madhya Pradesh and Madhya Maharashtra.

#### DAY-2:-

- Hot and humid weather very likely to prevail over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Heat wave conditions in some parts with severe heat wave conditions very likely to prevail in isolated pockets over Gangetic West Bengal; Heat wave to severe heat wave conditions in isolated pockets over Odisha; heat wave conditions in isolated pockets over Bihar and Jharkhand.
- Warm Night conditions very likely to prevail in isolated pockets over East Uttar Pradesh and north Madhya Pradesh.

#### DAY-3:-

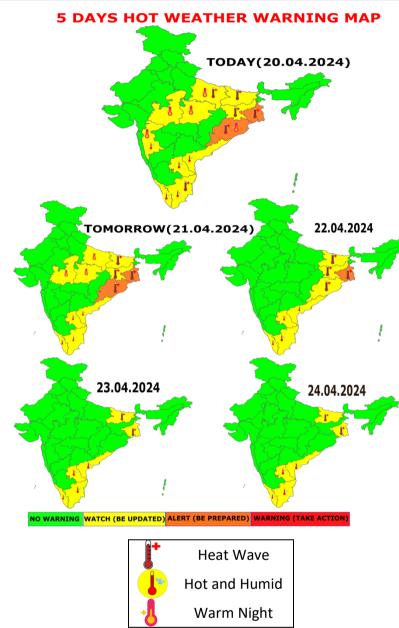
- Hot and humid weather very likely to prevail over Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Heat wave conditions very likely to prevail in some parts over Gangetic West Bengal; heat wave conditions in isolated pockets over Bihar, Odisha and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

#### DAY-4:-

- Hot and humid weather likely to prevail over Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Heat wave conditions very likely to prevail in some parts over Gangetic West Bengal; heat wave conditions in isolated pockets over Bihar.

#### DAY-5:-

- Hot and humid weather likely to prevail over Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Heat wave conditions very likely to prevail in some parts over Gangetic West Bengal; heat wave conditions in isolated pockets over Bihar.



#### **IMPACT & ACTION SUGGESTED:**

#### **Yellow alert Areas:**

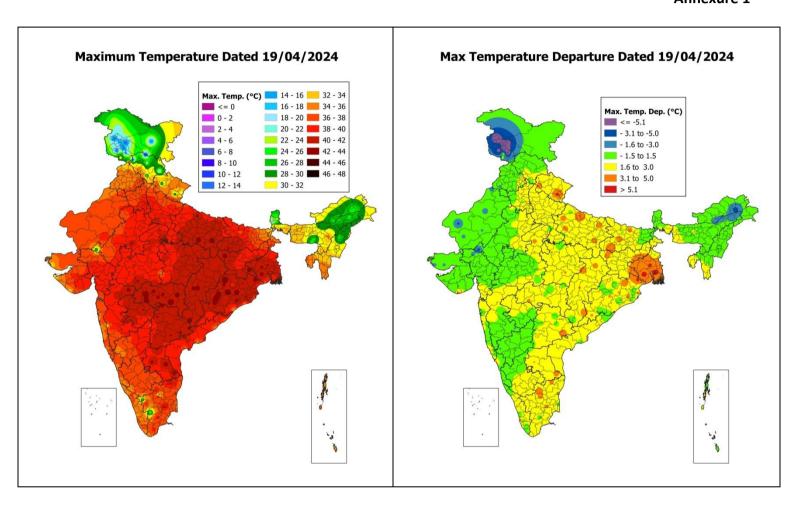
- Moderate temperature, Heat is tolerable for general public but moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- **2.** Avoid heat exposure, Wear light weight, light coloured, loose, cotton clothes, Cover your head, Use a cloth, hat or umbrella.

#### **Orange alert Areas:**

- 1. High temperature, Increased likelihood of heat illness symptoms in people who areeither 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.

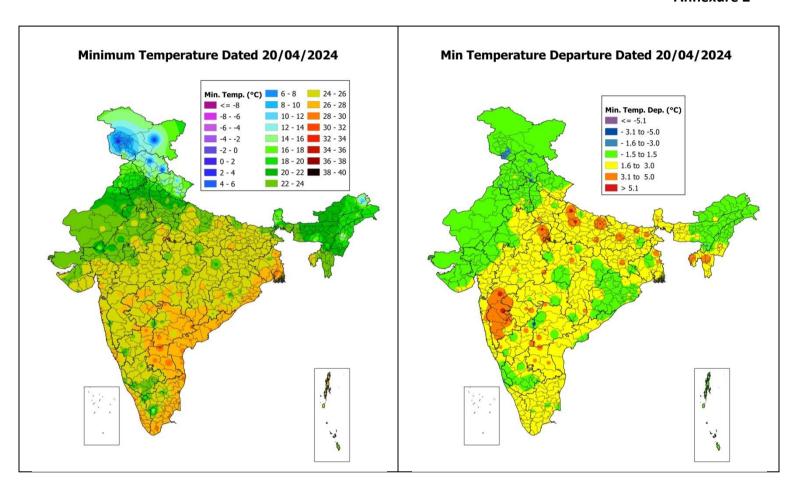






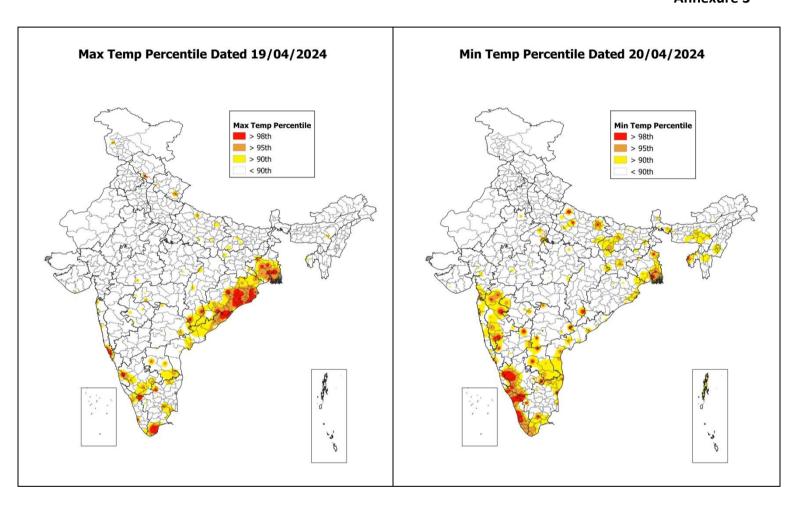












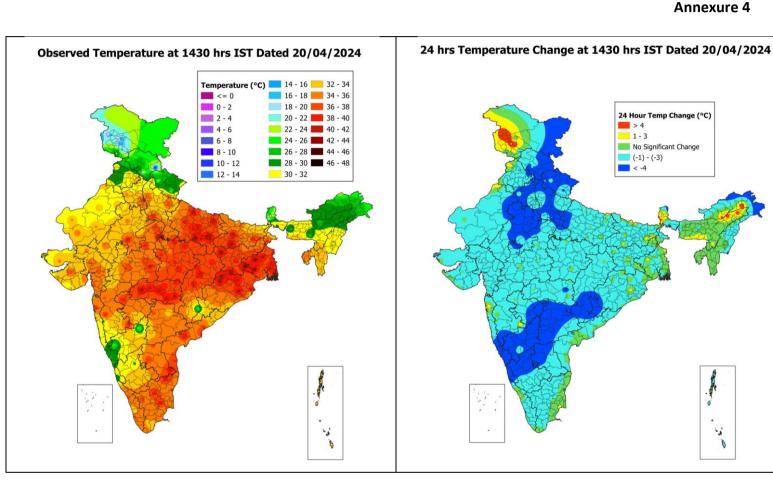




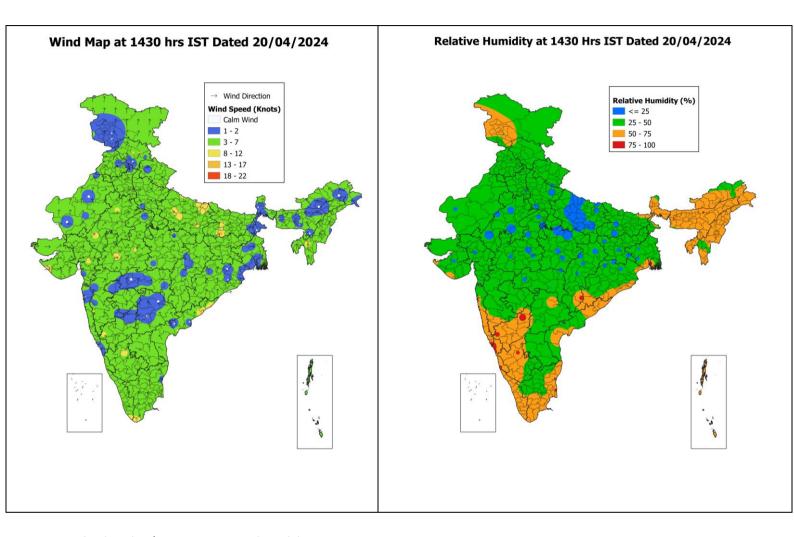
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#### **Annexure 4**

(-1) - (-3)







For Districtwise heat wave warning visit:

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

For GIS Based Heat Wave Warning visit:

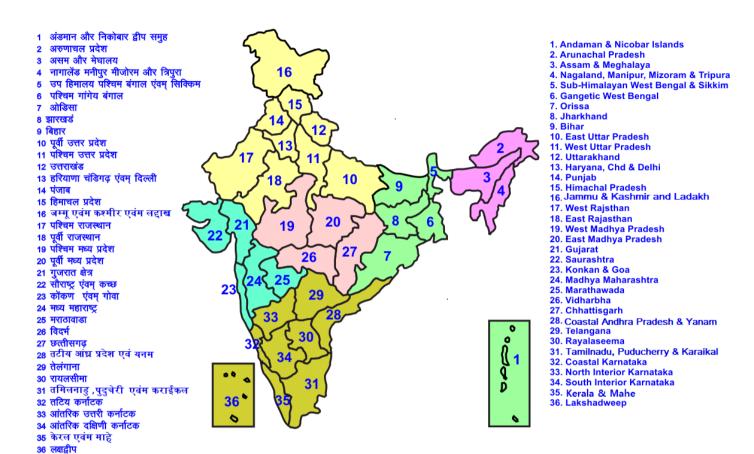
http://103.215.208.18/dwr img/GIS/heatwave.html





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# **LEGENDS**



	WARNING	Probabilistic Forecast		
į,	WARNING (TAKE ACTION)  ALERT ( BE PREPARED)  WATCH (BE UPDATED)  NO WARNING ( NO ACTION)	Terms Unlikely Likely Very Likely Most Likely	Probability of Occurrence (%)  < 25  25 - 50  50 - 75  > 75	
j+ Heat Wave	When maximum temperature of a station reaches ≥40° C for plains and ≥30° 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 ≥6.5° C			
	(b). Based on Actual maximum temperature			
	Heat Wave: When actual maximum temperature ≥45°C.			
	Severe Heat Wave: When actual maximum temperature ≥47°C			
	( c). Criteria for heat wave for coastal stations  When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C			
<b>j+</b> 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 °C.			
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**Hot and Humid:** When maximum temperatures remains 3°C above normal along with the above normal relative humidity.