



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

# Dated: 29<sup>th</sup> April, 2024 Time of Issue: 1630 Hrs IST

### Observed Temperature Scenario:-

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

- Yesterday, maximum temperatures are in the range of 42-45°C over in some parts of Odisha, Gangetic West Bengal and Rayalaseema; in the range of 40-42°C over many parts of East Uttar Pradesh, Bihar, Jharkhand, Marathwada, Madhya Maharashtra, North Interior Karnataka, Telangana; in some parts of Vidarbha, Coastal Andhra Pradesh & Yanam; in isolated pockets of Chhattisgarh and Gujarat. These are above normal by 4-8°C over in many parts of Bihar and Gangetic West Bengal; in some parts of Sub Himalayan West Bengal and in isolated pockets of north Odisha.
- Yesterday's Highest Maximum Temperature on Plains: 45.6°C at Nandyal (Rayalaseema).
- Markedly above normal (5.1°C or more):- At most places over Gangetic West Bengal; at a few places over Bihar and Sub-Himalayan West Bengal; at isolated places over Jharkhand.
- Appreciably above normal (3.1°C to 5.0°C):- At a few places over Odisha; at isolated places over Saurashtra & Kutch, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, South Interior Karnataka and Kerala & Mahe.
- Above normal (1.6°C to 3.0°C) :- At most places over Konkan & Goa, Rayalaseema and North Interior Karnataka; at many places over Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam; at a few places over Marathwada; at isolated places over East Uttar Pradesh.

### 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 a few places over Marathwada; at isolated places over East Uttar Pradesh, Telangana, Bihar, West Bengal & Sikkim, Konkan & Goa and Nagaland, Manipur, Mizoram & Tripura.
- Above normal (1.6°C to 3.0°C) :- At most places over Karnataka and Kerala & Mahe; at a few places over Gujarat Region and Odisha; at isolated places over Punjab, Saurashtra & Kutch, Vidarbha, Assam & Meghalaya, Rayalaseema, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

Heat wave conditions:- Yesterday, Heat Wave to severe heat wave conditions prevailed in many parts over Gangetic West Bengal; in some parts over Bihar and Odisha and heat wave conditions in isolated pockets over Sub-Himalayan West Bengal, Konkan & Goa, Rayalaseema and Telangana. Heat wave conditions have been prevailing over Odisha since 15<sup>th</sup> and over Gangetic West Bengal since 17<sup>th</sup> April.





- Warm night conditions:- Warm Night prevailed in isolated places over North Interior Karnataka and East Uttar Pradesh.
- Hot & Humid prevailed in isolated places over Kerala, Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka.
- Percentile Temperature (Annexure 3) :-
- ◆ Temperatures Recorded at 1430 Hours IST of Today, the 29<sup>th</sup> April, 2024 (Annexure 4) :-
- Prayagraj (East Uttar Pradesh) recorded the highest temperature of 44.2°C.
- ♦ Wind Speed & Relative Humidity Recorded at 1430 Hours IST of Today (Annexure 5) :-
- Maximum Temperatures Forecast :-
  - Rise in maximum temperatures by about 1-2 °C very likely over East India during next 2 days and no significant change thereafter.
  - Gradual Rise in maximum temperatures by about 2-4°C very likely over Central India during next 4-5 days and no significant change thereafter.
  - Rise in maximum temperatures by 2-3°C very likely over Tamil Nadu during next 3-4 days and no significant change thereafter.
  - No significant change in maximum temperatures very likely over rest parts of the country.





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

#### DAY-1:-

- ٠ Hot and humid weather very likely to prevail over west Assam & Meghalaya, Tripura, south Gujarat Region, Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka.
- .... Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal, Bihar; in isolated pockets over Odisha: heat wave conditions in isolated pockets over East Uttar Pradesh, Sub-Himalayan West Bengal, Jharkhand, Saurashtra & Kutch, Konkan & Goa, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Ravalaseema and Interior Karnataka.
- Warm night conditions very likely to prevail in isolated pockets over East • Uttar Pradesh, Madhya Maharashtra, Marathwada and Interior Karnataka.

#### DAY-2:-

- ٠ Hot and humid weather very likely to prevail over west Assam & Meghalaya, Tripura, Konkan & Goa, south Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka.
- Heat wave to severe heat wave conditions very likely to prevail at many ••• places over Gangetic West Bengal, Bihar; in isolated pockets over Odisha; heat wave conditions in isolated pockets over Sub-Himalayan West Bengal, Jharkhand, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Interior Karnataka.
- ••• Warm night conditions very likely to prevail in isolated pockets over Interior Karnataka.

#### DAY-3:-

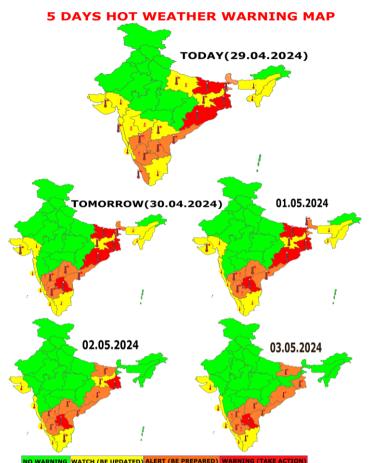
- ••• Hot and humid weather very likely to prevail over west Assam & Meghalaya, Tripura, Konkan & Goa, south Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Karnataka.
- ••• Heat wave to severe heat wave conditions very likely to prevail at many places over Gangetic West Bengal, Bihar; in isolated pockets over Odisha; heat wave conditions in isolated pockets over Sub-Himalayan West Bengal, Jharkhand, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Interior Karnataka.
- Warm night conditions very likely to prevail in isolated pockets over Interior Karnataka.

#### DAY-4:-

- ••• Hot and humid weather likely to prevail over Konkan & Goa, Saurashtra & Kutch, Kerala & Mahe and Coastal Karnataka.
- Heat wave to severe heat wave conditions likely to prevail in isolated ٠ pockets over Gangetic West Bengal, Rayalaseema; heat wave conditions in isolated pockets over Bihar, Odisha, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Interior Karnataka.
- ٠ Warm night conditions likely to prevail in isolated pockets over Interior Karnataka

#### DAY-5:-

- ٠ Hot and humid weather likely to prevail over Konkan & Goa, Saurashtra & Kutch, Kerala & Mahe and Coastal Karnataka.
- ٠ Heat wave to severe heat wave conditions likely to prevail in isolated pockets over Rayalaseema; heat wave conditions in isolated pockets over Gangetic West Bengal, Bihar, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Interior Karnataka.
- ••• Warm night conditions likely to prevail in isolated pockets over Interior Karnataka.



O WARNING WATCH (BE UPDATED) ALERT (BE PREPARED) WARNING (TAKE ACTION)



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

#### Yellow alert Areas:

- Moderate temperature, Heat is tolerable for general public but 1. 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.

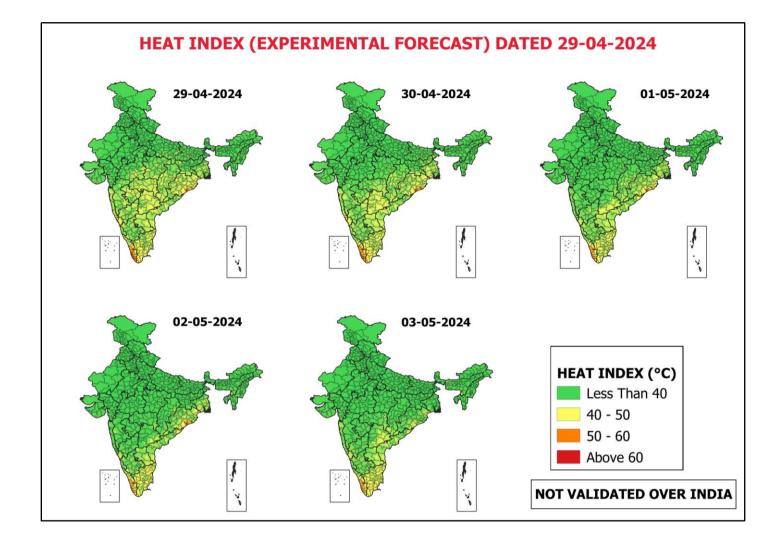
#### Red alert Areas:

1. Very high likelihood of developing heat illness and heat stroke in all ages.

2. Extreme care needed for vulnerable people.





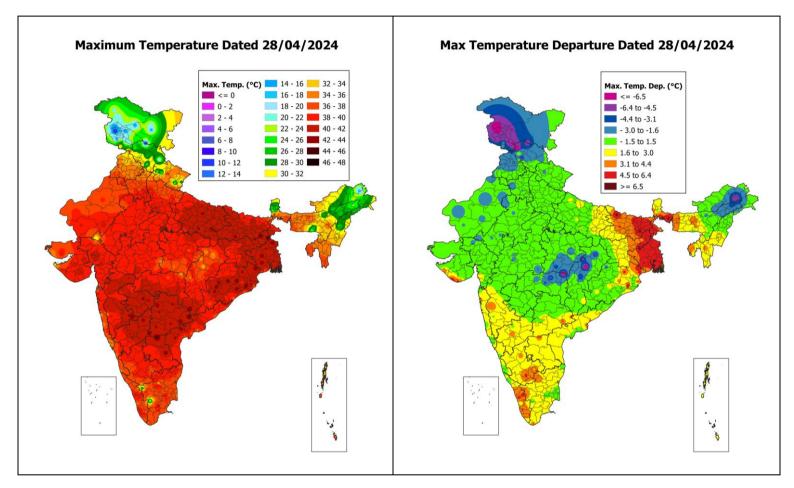




### राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय

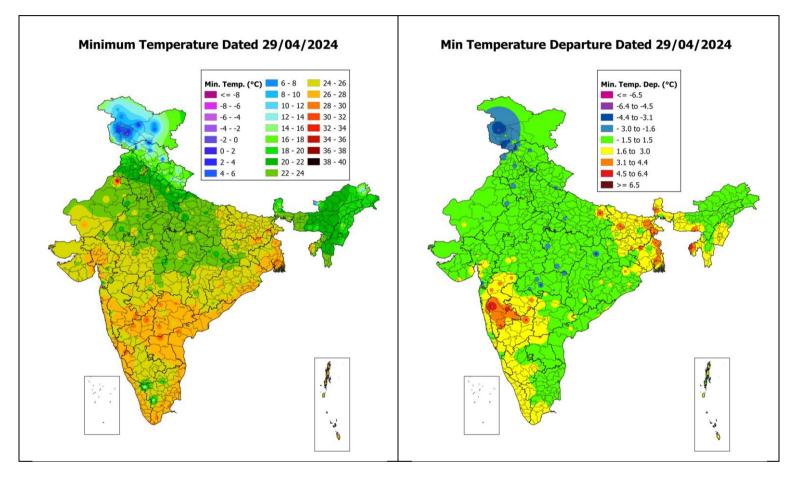


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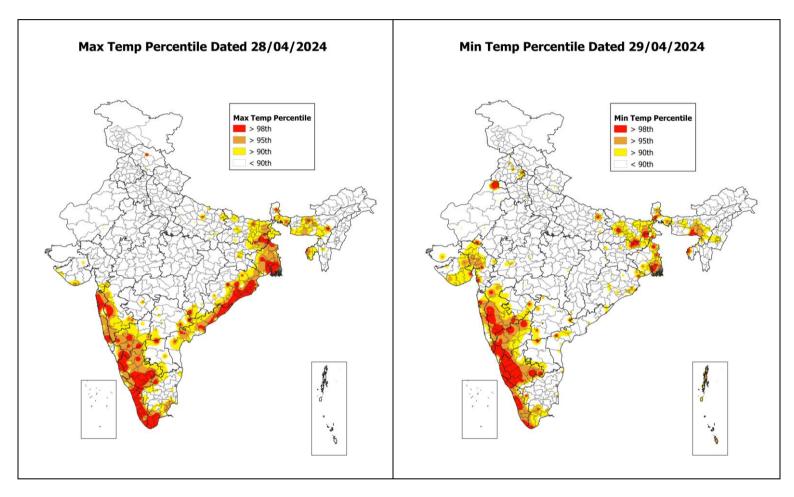










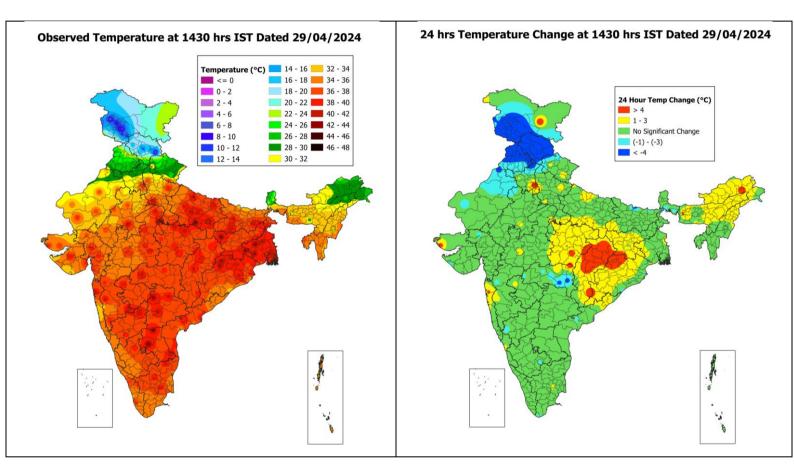




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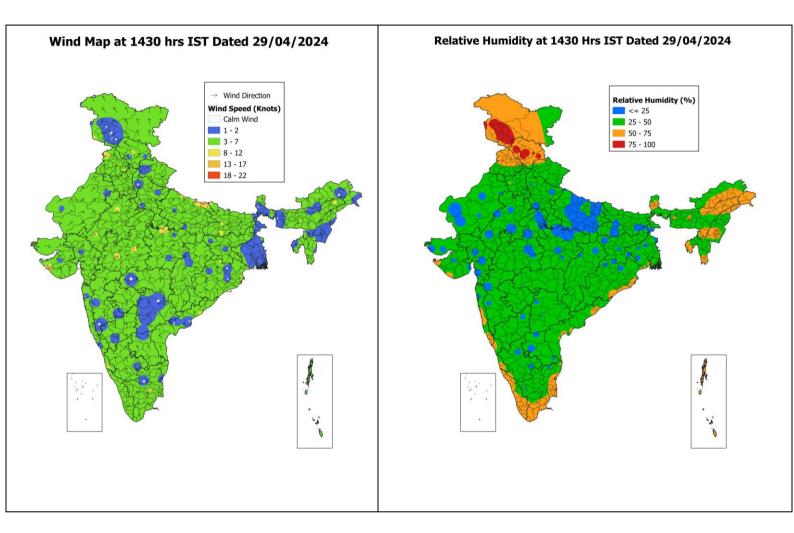








### Annexure 5



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

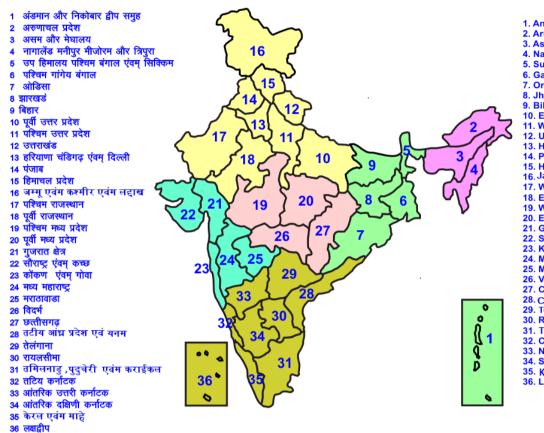


राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



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





1. Andaman & Nicobar Islands

- 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
- 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 Rajsthan
- 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	Probabilistic Forecast		
	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	
<b>j+</b> 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.			

Hot and Humid: When maximum temperatures remains 3°C above normal along with the above normal relative humidity.