



Current Temperature Status and Heat Wave Warning

Dated: 21st 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 42-46°C over many parts of Gangetic West Bengal, over some parts of Chhattisgarh and Jharkhand and in isolated pockets over East Uttar Pradesh, Vidarbha, Bihar and East Madhya Pradesh. These are in the range of 40-42°C at many parts of Coastal Andhra Pradesh & Yanam and Rayalaseema and at some parts of Odisha and Tamil Nadu, Puducherry & Karaikal and at isolated pockets over Gujarat state and Marathwada. These were above normal by 2-4°C over many parts of Gangetic West Bengal and in isolated pockets over Chhattisgarh, Jharkhand, Bihar, East Uttar Pradesh, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, Telangana, Vidarbha and Odisha.
- Yesterday's Highest Maximum Temperature on Plains: 45.2°C at Baripada & Boudh (Odisha)
- Markedly above normal (5.1°C or more):- At a few places over Gangetic West Bengal.
- Appreciably above normal (3.1°C to 5.0°C):- At a few places over Jharkhand and Bihar
- Above normal (1.6°C to 3.0°C) :- At many places over Odisha, Tamil Nadu, Puducherry & Karaikal Kerala & Mahe; at
 a few places over Arunachal Pradesh and East Uttar Pradesh; at isolated places over Assam & Meghalaya, Coastal
 Andhra Pradesh & Yanam, Rayalaseema, West Uttar Pradesh, Vidarbha and East Madhya 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 a few places over Gangetic West Bengal; at isolated places over Bihar, Odisha, East Madhya Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- Above normal (1.6°C to 3.0°C) :- At most places over Jharkhand and Tamil Nadu, Puducherry & Karaikal; at many places over Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe; at a few places over Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Rayalaseema; at isolated places over East Uttar Pradesh, West Madhya Pradesh, Chhattisgarh, Madhya Maharashtra and South Interior Karnataka.

• 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 isolated places over Odisha, Chhattisgarh and Bihar.





◆ Warm night conditions:- Today, 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 Madhya Pradesh, Bihar, Gangetic West Bengal, Odisha and Chhattisgarh.

- Percentile Temperature (Annexure 3) :-
- ◆ Temperatures Recorded at 1430 Hours IST of Today, the 21st April, 2024 (Annexure 4) :-
- Bankura (Gangetic West Bengal) recorded the highest temperature of 43.6°C.
- Wind Speed & Relative Humidity Recorded at 1430 Hours IST of Today (Annexure 5) :-

Maximum Temperatures Forecast :-

- No significant change in maximum temperatures very likely over Northwest India during next 24 hours and rise gradually by 2-3°C thereafter.
- No significant change in maximum temperatures very likely over East India during next 24 hours and fall by about 2°C during subsequent 2 days and rise by 2-3°C thereafter.
- No significant change in maximum temperatures very likely over West India during next 3 days and rise by 2-3°C thereafter.
- No significant change in maximum temperatures very likely over rest parts of the country.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Hot Weather Warnings for Next 5 Days

DAY-1:-

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

DAY-2:-

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

DAY-3:-

- Hot and humid weather very likely to prevail over Sub-Himalayan West Bengal & Sikkim, Odisha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Heat wave conditions in some parts with severe heat wave conditions in isolated pockets very likely to prevail over Gangetic West Bengal; heat wave conditions in isolated pockets over East Uttar Pradesh and Bihar.

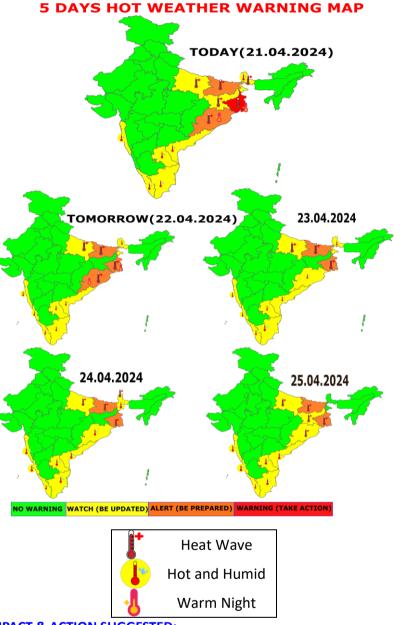
DAY-4:-

- Hot and humid weather very likely to prevail over Sub-Himalayan West Bengal & Sikkim, Odisha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Heat wave conditions in some parts with severe heat wave conditions in isolated pockets likely to prevail over Gangetic West Bengal; heat wave conditions in isolated pockets over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Bihar.

DAY-5:-

- Hot and humid weather very likely to prevail over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Heat wave conditions in some parts with severe heat wave conditions in isolated pockets likely to prevail over Gangetic West Bengal; heat wave conditions in isolated pockets over East Uttar

Pradesh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Odisha and Bihar.



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.

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.

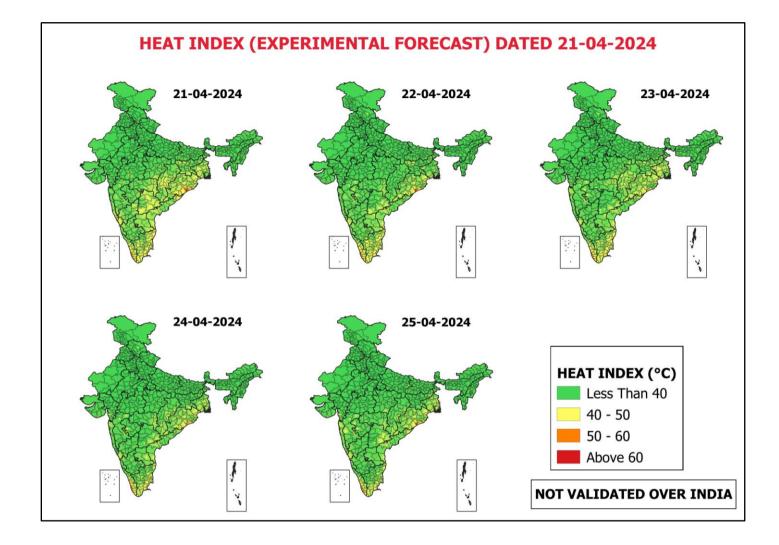
2. Drink sufficient water- even if not thirsty, Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Red alert Areas:

- 1. Very high likelihood of developing heat illness and heat stroke in all ages.
- 2. Extreme care needed for vulnerable people.



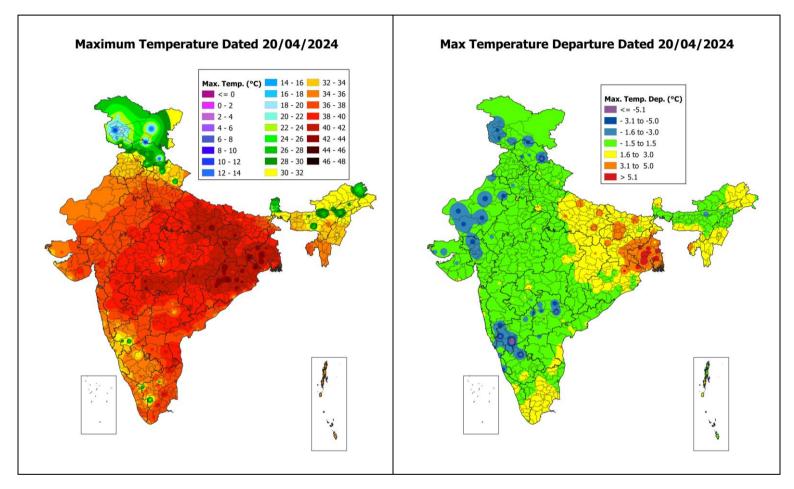






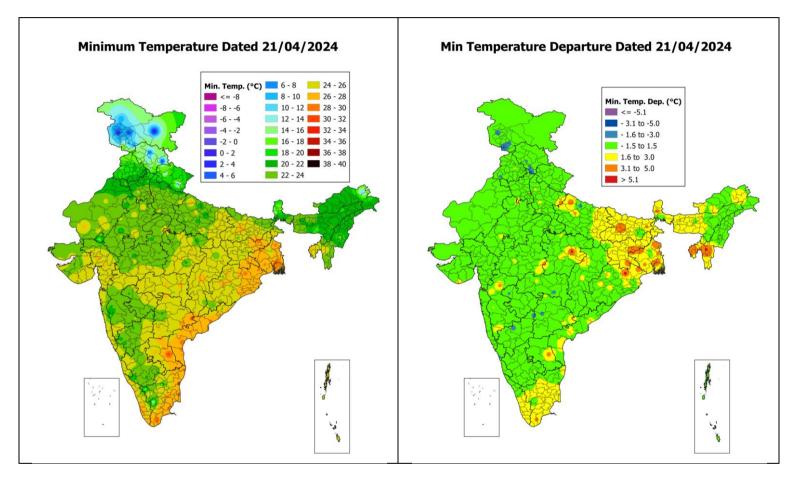






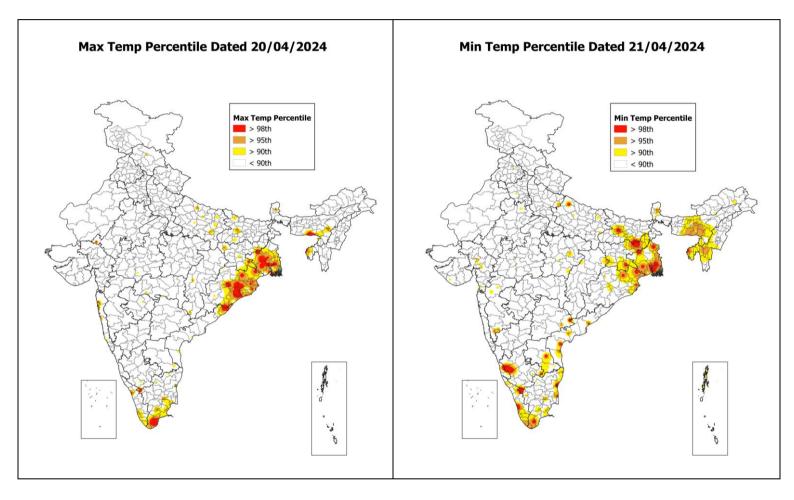










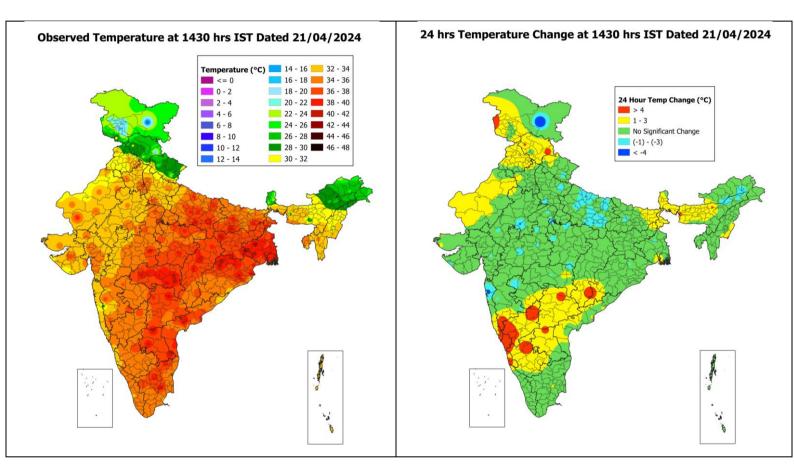




राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



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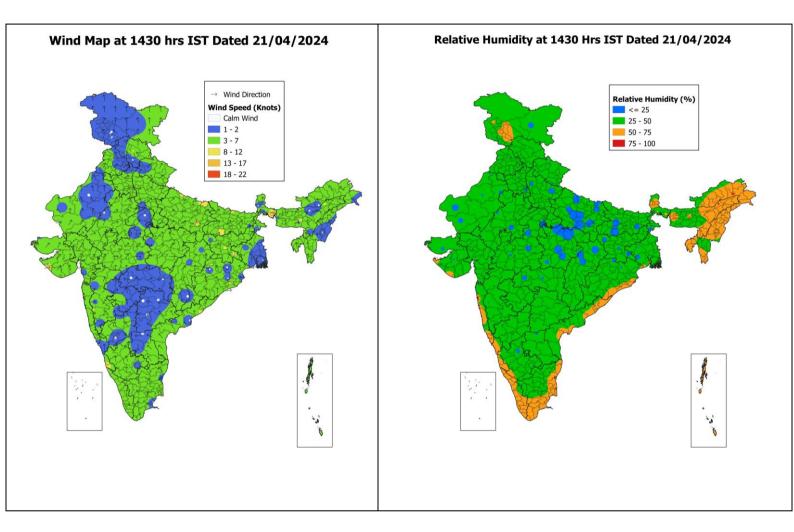








Annexure 5



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

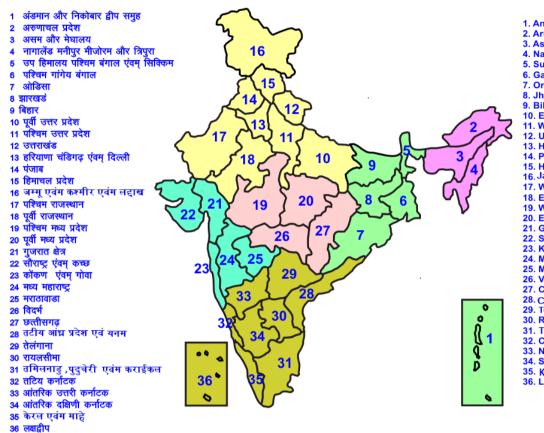


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National Weather Forecasting Centre India Meteorological Department **Ministry of Earth Sciences**





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	
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			
j+ 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.