

Government of India Ministry of Earth Sciences India Meteorological Department

Press Release Date: 21st April, 2023 Time of Issue: 1330 hours IST

Subject: (i) Abatement of Heat wave conditions over East India from tomorrow.

(ii) Wet spell over northeast India with possibility of isolated heavy falls during next 2 days and reduce significantly thereafter.

Weather observed during past 24 hours ending at 0830 hrs IST of today: Refer Annexure I

Significant Meteorological features:

- ❖ A Western Disturbance seen as a trough in middle tropospheric westerlies roughly along Long 72°E to the north of Lat. 30°N.
- ❖ A trough/wind discontinuity runs from Vidarbha to south Tamil Nadu in lower tropospheric levels.
- ❖ A trough in lower tropospheric westerlies runs roughly along Long 88°E to the north of Lat. 20°N.

Maximum Temperatures and Heat Wave observed:

- ❖ Yesterday's, Maximum Temperatures were in the range of 40-44°C over many parts of East India and East Uttar Pradesh; in some parts of Central India, interior Maharashtra and Rayalaseema; 35-40°C of rest of the parts of the country except over Western Himalayan Region (12-25°C). Maximum Temperatures were above normal by 4-6°C over many parts of East India; 2-4°C over some parts of East Uttar Pradesh, Andhra Pradesh, Tamil Nadu, Kerala, Konkan, and Northeast India.
- ❖ Heat wave to severe heat wave conditions observed in many parts of Gangetic West Bengal; in some parts of Bihar; heat wave conditions observed in isolated pockets over Sub-Himalayan West Bengal and Odisha.
- ❖ Heat Wave conditions are prevailing over Gangetic West Bengal since last 10 days; Bihar since last 7 days and Odisha since last 5 days.

Maximum Temperatures Forecast and Heat Wave Warnings (Graphics in Annexure II):

East India:

❖ Fall by 3-5°C in Maximum Temperatures very likely during next 5 days.

Warnings:-

*** West Bengal & Odisha: - Heat wave conditions** very likely in isolated pockets today.

Northwest India:

❖ No significant change in Maximum Temperatures very likely during next 3 days and rise by 2-4°C thereafter.

Central India:

❖ No significant change in Maximum Temperatures very likely during next 5 days.

West India:

- ❖ No significant change in Maximum Temperatures very likely during next 2 days and rise by 2-3°C thereafter.
- ✓ Due to humid air and High Temperature, Hot and Discomfort weather is very likely over Konkan (including Mumbai & Thane), Kerala on 21st and coastal Tamil Nadu on 21st & 22nd April, 2023.

Rainfall Forecast and Warnings (Graphics in Annexure II):

Northwest India:

- ❖ Light/moderate scattered to fairly widespread rainfall/snowfall with thunderstorm/lightning very likely over Western Himalayan Region and Isolated rainfall with thunderstorm/lightning likely over Punjab, Haryana, Chandigarh, Uttar Pradesh today and significant reduction thereafter.
- ❖ Isolated **Hailstorm** very likely over Uttarakhand today.

Northeast India:

- ❖ Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 3 days.
- ❖ Heavy rainfall very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya on 21st & 22nd April, 2023.

Central India:

❖ Light/moderate isolated rainfall with thunderstorm/lightning/gusty winds very likely over Madhya Pradesh, Vidarbha and Chhattisgarh during next 5 days. Isolated **hailstorm** also likely over Chhattisgarh on 21st & 22nd and over Vidarbha on 22nd April, 2023.

East India:

❖ Light isolated to scattered rainfall with thunderstorm/lightning/gusty winds very likely over Bihar, Jharkhand, West Bengal & Sikkim and Odisha during next 5 days. Isolated **hailstorm** also likely over Odisha on 22nd & 23rd and over Bihar on 24th April, 2023.

South India:

❖ Light isolated to scattered rainfall with thunderstorm/lightning/gusty winds very likely over Coastal Andhra Pradesh, Telangana, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during next 5 days.

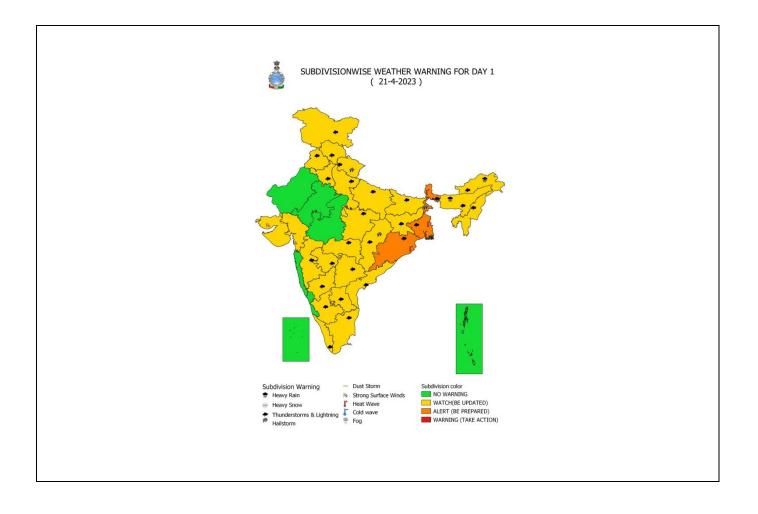
For more details kindly refer:

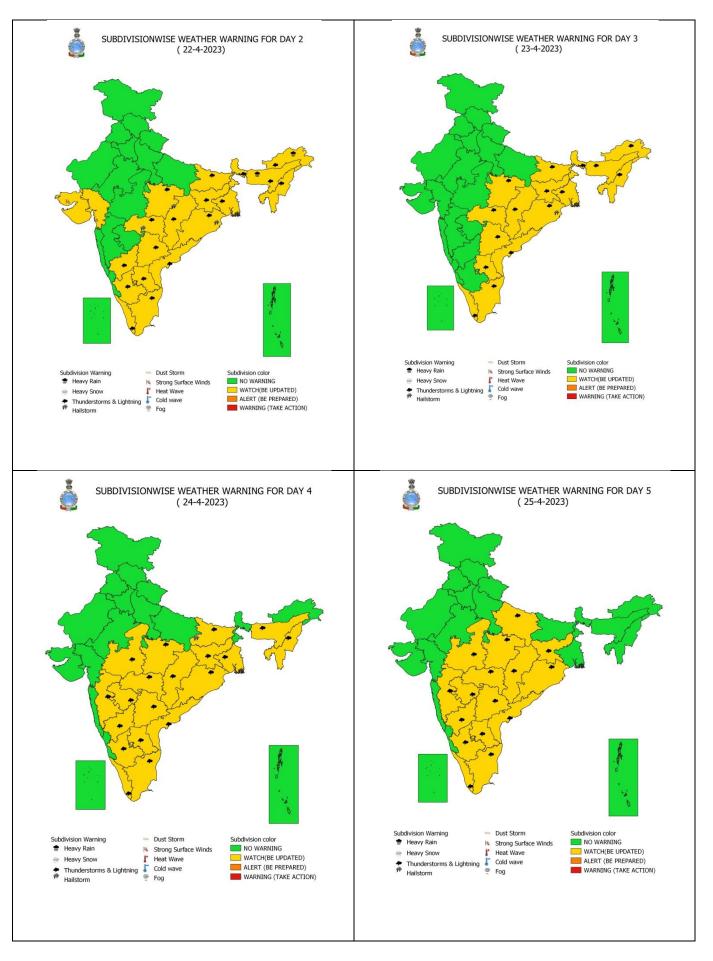
https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php https://mausam.imd.gov.in/responsive/districtWiseNowcast.php

Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

- * Rainfall/thundershowers observed at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Vidarbha; at many places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; at a few places over Punjab, Haryana, Chandigarh & Delhi, Odisha, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands and at isolated places over Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathawada, Interior Karnataka, Tamil Nadu, Coastal Andhra Pradesh, Telangana and Kerala.
- Significant amount of rainfall (in cm): Jammu & Kashmir: Kupwara, Udhampur-3 each, Bandipore, Gulmarg, Baramula-2 each; Himachal Pradesh: Shimla-6, Kullu, Mandi-5 each, Chamba, Kinnaur, Kangra-3 each, Uttarakhand: Joshimath-5, Uttarkashi-4, Chakrata, Mussoorie, Rudraprayag -2 each; Arunachal Pradesh: Naharlagun (dist Papumpara) 4,; Assam & Meghalaya: Srijangram Arg (dist Bongaigaon) 5, Karimganj_aws (dist Karimganj) 5, Kokrajhar (dist Kokrajhar) 4, Ranganadi Nt Xing (dist Lakhimpur) 4, Neamatighat (dist Jorhat) 4.
- **\Delta Hailstorm observed** at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Delhi, Vidarbha, Madhya Maharashtra, Sikkim and Arunachal Pradesh.

Annexure II





Orange alert areas for heat wave:

IMPACT:

- 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.

ACTION SUGGESTED

- Avoid heat exposure– keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

For Districtwise heat wave warning visit:

https://mausam.imd.gov.in/responsive/districtWiseHeatwaveW arning.php

Agromet advisories for Heat wave and rainfall accompanied with thunderstorms/gusty winds and Hails likely over various parts of the country:

- Postpone harvesting of matured wheat and mustard in Jammu & Kashmir, Himachal Pradesh, Uttarakhand; rice in Arunachal Pradesh; keep the already harvested produce at safer places.
- Postpone sowing of jute and summer vegetables in Assam & Department & Departmen
- Drain out excess water from the crop fields in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Arunachal Pradesh and Assam & Meghalaya.
- Use hail nets to protect orchards in Uttarakhand, Sub Himalayan West Bengal & Sikkim, Vidarbha, Chhattisgarh and Odisha.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Provide light and frequent irrigation to crops in West Bengal during morning and evening hours.

Legends:

- **♦ Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.
- **Region wise classification of meteorological Sub-Divisions:**
 - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - East India: Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and 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 Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)			

Subdivision Warning		Dust Storm	Subdivision color
💮 Heavy Rain	3	Strong Surface Winds	NO WARNING
Heavy Snow	1	Heat Wave	WATCH(BE UPDATED)
Thunderstorms & Lightning		Cold wave	ALERT (BE PREPARED)
Hailstorm	=	Fog	WARNING (TAKE ACTION)

Probabilistic Forecast				
Terms	Probability of Occurrence (%)			
Unlikely	< 25			
Likely	25 - 50			
Very Likely	50 - 75			
Most Likely	> 75			