



Government of India
Ministry of Earth Sciences
India Meteorological Department

Date: 10th April, 2022
Time of Issue: 1345 hrs IST

Subject:

- i) **Heat Wave Spell likely to continue over Northwest India, Madhya Pradesh & Vidarbha, during next 5 days with slight reduction from 12th April, 2022.**
- ii) **Heavy rainfall spell likely to continue over Assam-Meghalaya during next 5 days; over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe on 10th, 13th & 14th; Tamil Nadu, Puducherry & Karaikal on 10th and 11th April 2022 .**

Weather observed during past 24 hours:

- ✓ **Maximum Temperatures** (as on 09/04/2022) were **42-45°C** in most parts over West Rajasthan and northern parts of East Rajasthan and **41-44°C** in most parts over Haryana-Delhi, Saurashtra-Kutch, Vidarbha, Madhya Pradesh, remaining parts of East Rajasthan; in many parts of East Uttar Pradesh, Vidarbha and Jharkhand; in some parts of Gujarat Region and in isolated parts of north Madhya Maharashtra.
- ✓ The maximum temperatures were **above normal by 6-10°C** at most parts of Himachal Pradesh, Punjab and Haryana-Delhi; at many parts over West Rajasthan; at some parts of Jammu division and East Rajasthan and in isolated parts of West Madhya Pradesh and **by 4-6°C** in many parts over East Madhya Pradesh and Jharkhand; in some parts of Uttar Pradesh and in isolated pockets over Saurashtra & Kutch, Gangetic West Bengal and Vidarbha.
- ✓ **Heat wave conditions** recorded in most places with **severe heat wave conditions** in some pockets over West Rajasthan; **heat wave conditions** in many places with **severe heat wave conditions** in isolated pockets over East Rajasthan; **heat wave to severe heat wave conditions** in most places over Punjab, Haryana and Delhi; in some pockets over West Uttar Pradesh and West Madhya Pradesh; in isolated pockets over Jammu Division and Himachal Pradesh; **Severe heat wave conditions** in isolated pockets over Kutch **and heat wave conditions** in some parts over East Madhya Pradesh and in isolated pockets over East Uttar Pradesh and Jharkhand.
- ✓ **Chief Rainfall amount (in cm): Kerala & Mahe:** Pathanamthitta & Alapuzha-9 each; Ernakulam, Kasaragode, Kottayam & Idukki-7each; **Assam & Meghalaya:** Hazuah-13, Makokchang-11, Bhaghmawa, Melabazar-6 each.

Maximum Temperature forecast and Heat Wave warning:

- ✓ A fresh Western Disturbance likely to affect Western Himalayan Region from the night of 12th April, 2022. Under its influence, maximum temperatures are very likely to fall by 2-3°C over many parts of Northwest India from 12th April. Consequently, intensity & distribution of the heat wave conditions over the plains of Northwest India is very likely to reduce from 12th April, 2022.

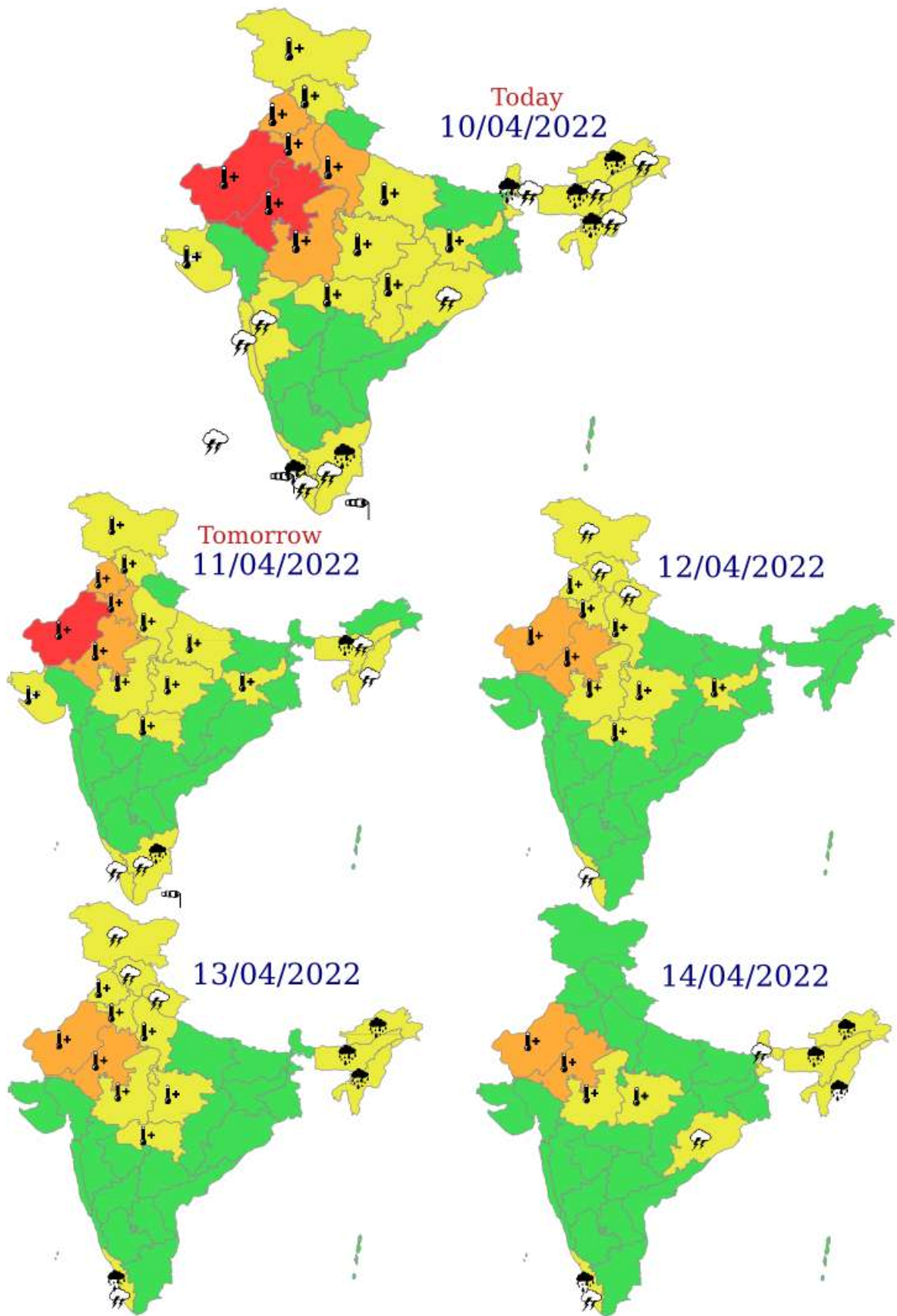
- ✓ **Heat Wave to severe heat wave conditions** very likely in most parts over on 10th in many parts on 11th and in some parts on 12th to 14th April over West Rajasthan; **heat Wave to severe heat wave conditions** very likely in many parts on 10^h & 11th April over East Rajasthan; **heat wave conditions** in some parts with **severe heat wave conditions** in isolated pockets over Punjab & Haryana-Delhi during 10th-11th; **heat wave to severe heat wave conditions** in some parts over West Uttar Pradesh & West Madhya Pradesh and in isolated pockets over East Uttar Pradesh on 10th April.
- ✓ **Heat Wave conditions** in some parts very likely over Madhya Pradesh during next 5 days and in isolated pockets over Jharkhand on 10th to 12th; west Vidarbha during next 4 days; over East Uttar Pradesh on 11th; over Saurashtra & Kutch, Himachal Pradesh & Jammu division on 10th & 11th; over Chhattisgarh on 10th April, over West Uttar Pradesh during 11th-13th; over Punjab & Haryana-Delhi on 12th & 13th April, 2022.

Rainfall Forecast & Warnings:

- ✓ Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels:
 - ❖ Fairly widespread to widespread rainfall accompanied with **thunderstorm/lightning** very likely over Sub-Himalayan West Bengal-Sikkim, Arunachal Pradesh, Assam-Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.
 - ❖ Isolated **very heavy rainfall** likely over Assam & Meghalaya on 10th, 13th & 14th and over Arunachal Pradesh on 13th & 14th and **heavy rainfall** likely over Nagaland, Manipur, Mizoram & Tripura on 10th, 13th & 14th and over Sub-Himalayan west Bengal & Sikkim on 10th April, 2022.
- ✓ Under the influence of trough over south Peninsular India in lower tropospheric levels and a cyclonic circulation over southwest Bay of Bengal and adjoining areas of north Sri Lanka and Tamil Nadu in lower and middle tropospheric levels;
 - ❖ Light fairly widespread/widespread rainfall accompanied with **thunderstorm/lightning** very likely over Kerala-Mahe and isolated/scattered rainfall over Tamilnadu-Puducherry-Karaikal, Lakshadweep area, Coastal Andhra Pradesh, Coastal & South Interior Karnataka during next 5 days.
 - ❖ Isolated **very heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal on 10th; and **heavy rainfall** likely over Kerala on 10th, 13th & 14th and over Tamilnadu on 11th April, 2022.
 - ❖ **Squally Weather** (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar, Comorin area, Southwest Bay of Bengal, along & off Tamil Nadu Coast on 10th& 11th and along & off Kerala coast on 10th April. Fishermen are advised not to venture into these areas.
- ✓ A fresh Western Disturbance likely to affect Western Himalayan Region from the night of 12th April, 2022. Under its influence:
 - ❖ Light/Moderate isolated/scattered rainfall likely over Western Himalayan Region during 12th - 14th April and isolated rainfall likely over Punjab on 13th April, 2022.

For more details refer:

https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php



Impact expected and action suggested due to severe heat wave conditions over Rajasthan, Madhya Pradesh, Punjab, Haryana-Delhi, Uttar Pradesh.

Impact expected:

- Heat wave could lead to moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases
- Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.

Action suggested:

- Avoid heat exposure– keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Avoid heat exposure, wear lightweight, light-colored, loose, cotton clothes and cover the head by use of cloth, hat or umbrella etc.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

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:

- 1) **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.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, 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 Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)



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

