



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

**Date: 11th April, 2022
Time of Issue: 1415 hrs IST**

Subject:

- i) **Spatial extent & intensity of Heat Wave Spell likely to reduce over Northwest India from 13th April and continue over Madhya Pradesh during next 5 days.**
- ii) **Heavy rainfall spell likely to continue over Assam-Meghalaya & Kerala-Mahe during next 5 days; over Arunachal Pradesh during 13th to 15th; over Nagaland-Manipur-Mizoram-Tripura on 11th, 13th, 14th & 15th and over Tamil Nadu, Puducherry & Karaikal on 11th & 12th April 2022 .**

Weather observed during past 24 hours:

- ✓ **Maximum Temperatures** (as on 10/04/2022) were **42-45°C** in most parts over West Rajasthan and **41-44°C** in most parts over Haryana-Delhi, Punjab, southern parts of East Uttar Pradesh, East Rajasthan, Madhya Pradesh; in many parts of Vidarbha & interior Odisha, and Jharkhand; in some parts of Saurashtra-Kutch & Gangetic West Bengal and in isolated parts of Jharkhand, Gujarat Region & north Madhya Maharashtra.
- ✓ The maximum temperatures were **above normal by 6-10°C** at most parts of Himachal Pradesh, Jammu division, Punjab, Haryana, Delhi and in isolated parts of northern Rajasthan and **by 4-6°C** in many parts over remaining Rajasthan & Madhya Pradesh; in some parts of Jharkhand and in isolated pockets over Uttar Pradesh.
- ✓ **Heat wave to severe heat wave conditions** were observed over most parts of West Rajasthan, Punjab and Haryana, Chandigarh and Delhi; over many parts of East Rajasthan, Jammu division, Madhya Pradesh and Himachal Pradesh; in isolated pockets over Jharkhand and Uttar Pradesh.
- ✓ **Chief amount of rainfall (in cm): Kerala & Mahe:** Malappuram-7, Pathanamthitta-6, Kollam-5; **Assam & Meghalaya:** Bokajan-10, Bokakhat-9, Dholan-7; **Nagaland:** Wokha-7.

Maximum Temperature forecast and Heat Wave warning:

- ✓ **No significant change in maximum temperatures very likely over most parts of Northwest India today, gradual fall by 2-3°C during next 3 days and increase thereafter.**
- ✓ No significant change in maximum temperatures very likely over most parts of East India during next 3 days and fall by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures very likely over most parts of Gujarat during next 3 days and gradual rise by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures very likely over rest parts of the country.
- ✓ **Heat Wave conditions** in many parts **with severe heat wave conditions** in isolated pockets very likely over Rajasthan on 11th April; **heat wave to severe heat wave** in some/isolated parts over Rajasthan during 12th-15th April.

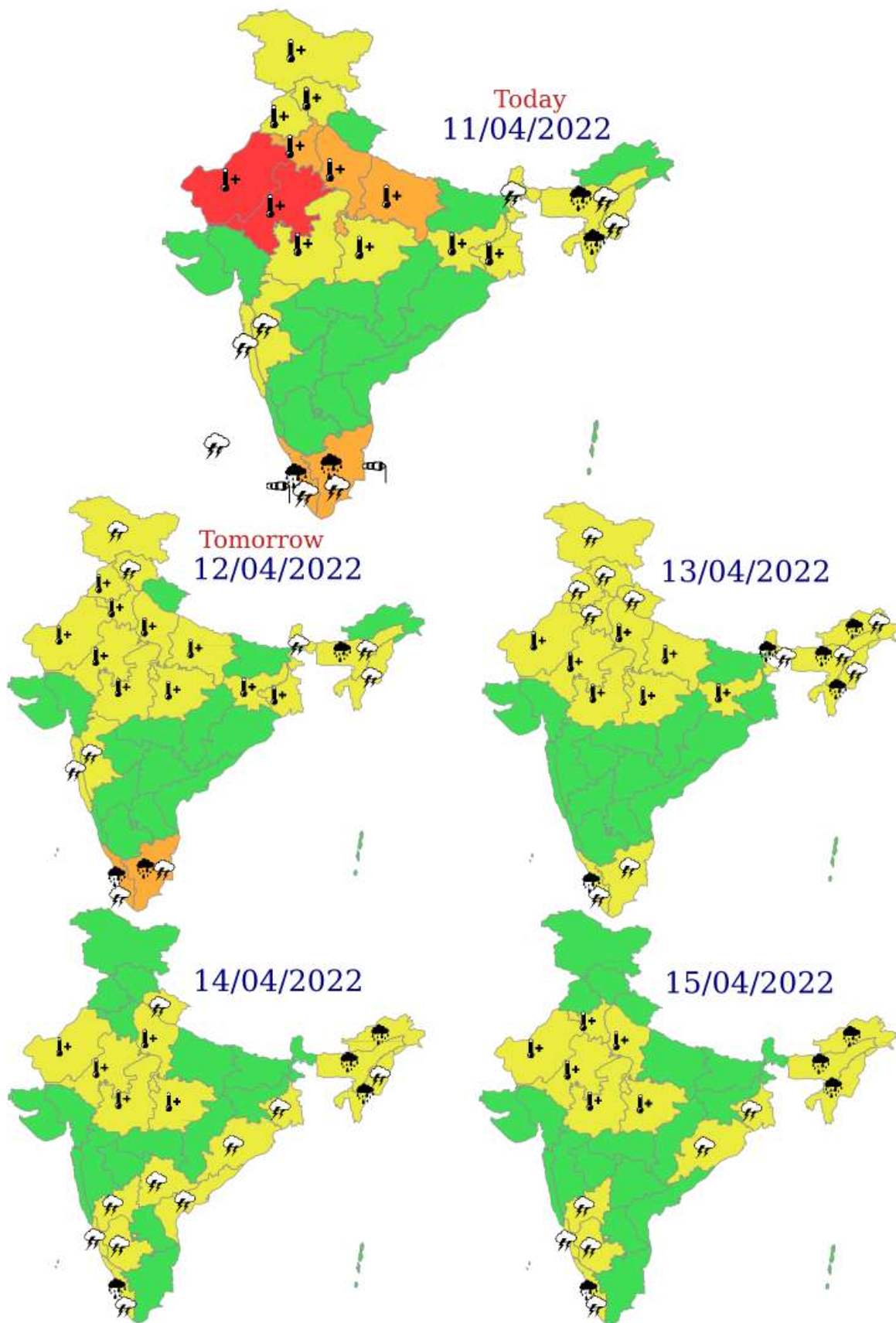
- ✓ **Heat wave to severe heat wave conditions** in many parts very likely over Haryana-Delhi and in some parts over Punjab during next 24 hours and **heat wave to severe heat wave conditions** in isolated pockets over the same region on 12th April.
- ✓ **Heat wave to severe heat wave conditions** in some/isolated pockets very likely over West Uttar Pradesh and Jharkhand today and reduce to isolated heat wave conditions over West Uttar Pradesh during 12th to 15th; over East Uttar Pradesh 11th-13th and over Jharkhand during 12th & 13th April.
- ✓ **Heat Wave conditions** in some parts very likely over Madhya Pradesh during next 5 days and in isolated pockets over Himachal Pradesh & Jammu division today.
- ✓ **Dust Raising winds (speed 20-30 kmph)** very likely over southern parts of Rajasthan, Punjab & Haryana 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 and a cyclonic circulation with trough aloft over west Assam & neighbourhood 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 during 13th-15th and over Arunachal Pradesh on 14th & 15th and **heavy rainfall** likely over Nagaland, Manipur, Mizoram & Tripura on 11th & during 13th-15th and over Sub-Himalayan West Bengal & Sikkim on 13th April, 2022.
- ✓ Under the influence of the cyclonic circulation over southwest Bay of Bengal and adjoining areas of north Sri Lanka and Tamil Nadu upto 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 & Interior Karnataka during next 5 days.
 - ❖ Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal on 11th & 12th April and over Kerala during next 5 days.
 - ❖ **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 11th. Fishermen are advised not to venture into these areas.
- ✓ Under the influence of Western Disturbance; light/moderate isolated/scattered rainfall likely over Western Himalayan Region during 12th to 15th April with maximum intensity on 13th April and isolated rainfall likely over Punjab & Haryana 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)



Heavy Rain



Strong Winds

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



Thunderstorm with Lightning



Heat Wave