



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 12th April, 2022
Time of Issue: 1230 hrs IST

Subject:

- i) Reduction in spatial extent & intensity of heat wave Spell over Northwest India and Madhya Pradesh.
- ii) Heavy rainfall spells likely to continue over Kerala-Mahe & Tamil Nadu-Puducherry-Karaikal during 12th-14th and over Assam-Meghalaya & Arunachal Pradesh during 13th-16th April, 2022.

Weather observed during past 24 hours:

- ✓ **Maximum Temperatures** (as on 11/04/2022) were **42-45°C** in isolated parts over northern parts of West Rajasthan and **41-44°C** in most parts over Haryana-Delhi, Punjab, southern parts of Uttar Pradesh, remaining parts of Rajasthan, Madhya Pradesh; in many parts of Vidarbha & Saurashtra-Kutch; in isolated parts of Gangetic West Bengal, interior Odisha & 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 and in isolated pockets over Madhya Pradesh, Jharkhand & Uttar Pradesh.
- ✓ **Heat wave to severe heat wave conditions** are observed over many parts of Jammu division, Himachal Pradesh, Punjab and Haryana & Delhi and in isolated pockets over Rajasthan and **heat wave conditions** in some pockets of Madhya Pradesh and in isolated pockets of Jharkhand and East Uttar Pradesh.
- ✓ **Chief amount of rainfall (in cm): Assam-Meghalaya:** Dhansiri-10, Diphu-6, **Nagaland:** Chumukedima-10, **Kerala-Mahe:** Pathanamthitta-9, Ernakulam-6, Kottayam-5; **Tamilandu:** Theni & Toothukudi-9 each, Ramanathapuram-7.

Maximum Temperature forecast and Heat Wave warning:

- ✓ Fall in maximum temperatures very likely over most parts of Northwest India by 2-3°C during next 2 days and rise by 2-4°C thereafter.
- ✓ No significant change in maximum temperatures very likely over most parts of Gujarat during next 2 days and rise by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures very likely over rest parts of the country.
- ✓ **Heat Wave conditions to severe heat wave conditions** in isolated pockets very likely over Haryana-Delhi & Punjab on 12th April and **heat wave conditions** in isolated pockets over Himachal Pradesh on 12th; Madhya Pradesh on 12th & 13th; Bihar on 13th & 14th; Jharkhand

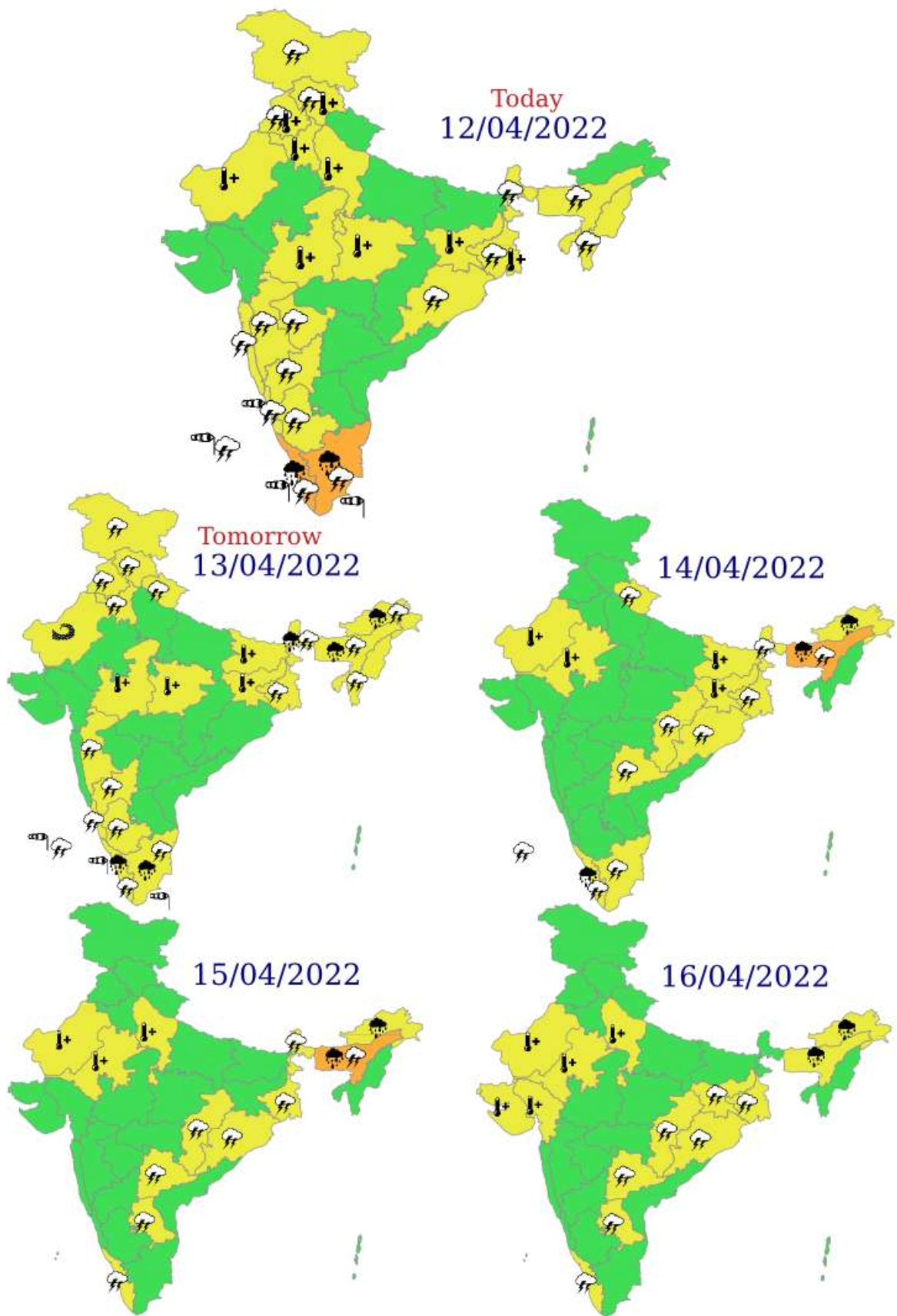
during 12th to 14th; West Uttar Pradesh on 12th, 15th & 16th; West Rajasthan on 12th, 14th, 15th & 16th; East Rajasthan during 14th to 16th and over Gujarat State on 16th April, 2022.

Rainfall/thunderstorm 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 **heavy to very heavy rainfall** likely over Assam-Meghalaya & Arunachal Pradesh during 14th to 16th and **heavy rainfall** likely over the same region on 13th April and over Sub-Himalayan West Bengal & Sikkim on 13th April, 2022.
- ✓ Under the influence of the cyclonic circulation over south Tamil Nadu upto middle tropospheric levels;
 - ❖ Light fairly widespread/widespread rainfall accompanied with **thunderstorm/lightning** very likely over Kerala-Mahe & Lakshadweep & isolated/scattered rainfall over Tamilnadu-Puducherry-Karaikal, Coastal Andhra Pradesh, Coastal & Interior Karnataka during next 5 days.
 - ❖ Isolated **heavy to very heavy rainfall** very likely over Tamil Nadu-Puducherry-Karaikal & Kerala on 12th and isolated **heavy rainfall** on 13th & 14th April, 2022.
 - ❖ **Squally Weather** (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar, Comorin area, along & off Tamil Nadu Coast and over Southeast Arabian Sea & Lakshadweep Area and along & off Kerala-Karnataka coasts on 12th & 13th April. Fishermen are advised not to venture into these areas.
- ✓ Under the influence of Western Disturbance; light to moderate isolated/scattered rainfall likely over Western Himalayan Region during 12th to 16th April with maximum intensity on 13th & 14th April and isolated rainfall also likely over Punjab on 12th & 13th and northwest Rajasthan & north Haryana on 13th April, 2022. Isolated **thunderstorm/lightning/gusty winds (speed 30-40 kmph)** also likely over Jammu-Kashmir, Himachal Pradesh & Punjab on 12th & 13th and over Uttarakhand on 13th & 14th and over Haryana on 13th April, 2022. Isolated **thunderstorm/dust-storm/lightning/gusty winds (speed 30-40 kmph)** also likely over northwest Rajasthan on 13th April, 2022.
- ✓ **Dust Raising winds (speed 30-40 kmph)** very likely over southern parts of Rajasthan, Punjab & Haryana on 12th & 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 Punjab, Haryana-Delhi.

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