



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

**Date: 05<sup>th</sup> April, 2022  
Time of Issue: 1245 hrs IST**

**Subject:**

- i) Heat Wave Spell likely to continue over Northwest India & Madhya Pradesh during next 5 days.**
- ii) A Low Pressure Area is likely to form over Southeast Bay of Bengal around 07<sup>th</sup> April, 2022.**

**Weather observed during past 24 hours:**

- ✓ **Maximum Temperatures** (as on 04/04/2022) were **41-43°C** in many parts over Vidarbha, north Gujarat state, East Uttar Pradesh, Madhya Maharashtra & Marathwada; in some parts of West Rajasthan and **40-42°C** in most places over Madhya Pradesh; in some parts over remaining parts of Gujarat state, East Rajasthan and in isolated pockets over Haryana-Delhi, Jharkhand, Bihar, Interior Odisha, Telangana, Rayalaseema and Chhattisgarh.
- ✓ The maximum temperatures were **above normal by 6-8°C** at many parts over Jammu division, Himachal Pradesh and in isolated parts over Punjab and **by 4-6°C** in many parts over Rajasthan, Haryana-Delhi; in some parts over Uttarakhand & Madhya Pradesh and in isolated pockets over Uttar Pradesh, Gujarat State, Vidarbha and Madhya Maharashtra.
- ✓ **Heat Wave conditions** in most pockets with Severe Heat Wave conditions in isolated pockets observed over West Rajasthan; Severe Heat Wave conditions in isolated pockets over Himachal Pradesh; Heat Wave conditions in some pockets over Madhya Pradesh and in isolated pockets over East Rajasthan, Uttar Pradesh, south Haryana-Delhi, Bihar, Jharkhand and Gujarat state.
- ✓ **Chief Rainfall amount (in cm): Meghalaya:** Sohra-58, Anlarem-29, Mawsynram-15, Kehlhrat-12, Shella-8; **Arunachal Pradesh:** Namsai-13, Itanagar, Roing & Kibithu-8 each; **Assam:** Dibrugarh & Tinsukia-8 each.

**Maximum Temperature and Heat Wave conditions Forecast:**

- ✓ Rise in maximum temperatures by about 2°C very likely over many parts of Northwest India during next 3 days and no significant thereafter.
- ✓ No significant change in maximum temperatures very likely over rest parts of the country during next 5 days.

**Heat Wave Spell likely to continue over most parts of Northwest India & Madhya Pradesh during next 5 days.**

- ✓ **Heat Wave conditions** in many parts with **severe heat wave conditions** in isolated pockets very likely over West Rajasthan during next 5 days and **Heat Wave to Severe heat wave conditions** in some parts over Uttar Pradesh & East Rajasthan during next 5 days and in isolated pockets over south Haryana-Delhi during next 5 days.

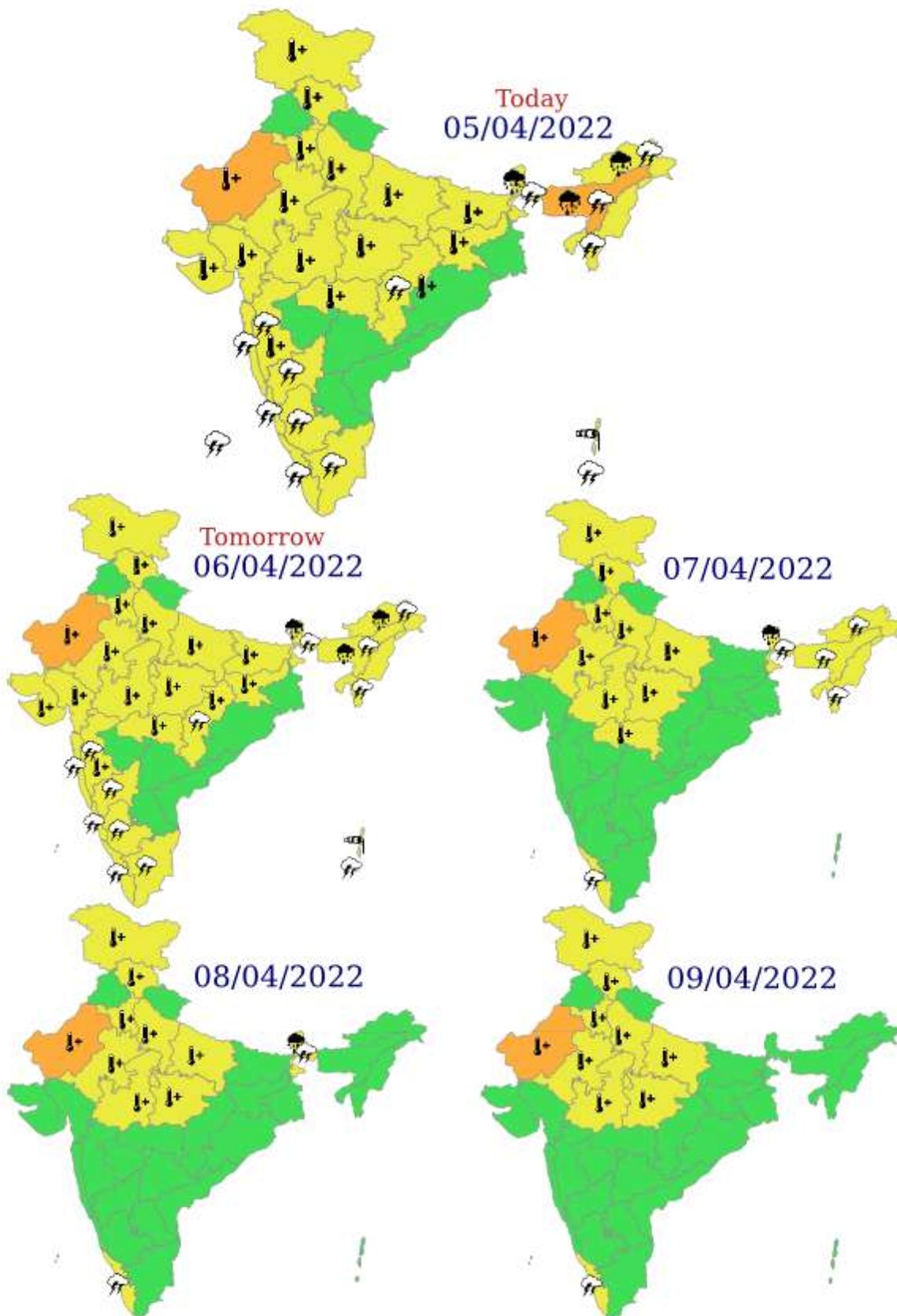
- ✓ **Heat Wave conditions** in **isolated** pockets over Madhya Pradesh, Jammu division & Himachal Pradesh during next 5 days; over Vidarbha during 05<sup>th</sup>-07<sup>th</sup> April; over Gujarat state, north Madhya Maharashtra, Chhattisgarh, Jharkhand & Bihar on 05<sup>th</sup> & 06<sup>th</sup> 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 very likely over Arunachal Pradesh, Assam-Meghalaya and isolated rainfall over Nagaland, Manipur, Mizoram & Tripura during next 5 days.
  - ❖ **Isolated very heavy rainfall** very likely over **Meghalaya on 05<sup>th</sup> April, 2022.** **Isolated heavy rainfall** also likely over Assam-Meghalaya and Arunachal Pradesh on 05<sup>th</sup> & 06<sup>th</sup> and over Sub-Himalayan West Bengal-Sikkim during 05<sup>th</sup>-08<sup>th</sup> April, 2022.
  - ❖ Isolated **thunderstorm/lightning** activity also very likely over Assam-Meghalaya, Arunachal Pradesh, Nagaland, Manipur and Sub-Himalayan West Bengal-Sikkim during 05<sup>th</sup>- 07<sup>th</sup> April, 2022.
- ✓ Under the influence of trough over south Peninsular India,
  - Light isolated/scattered rainfall very likely over Kerala-Mahe, Tamilnadu-Puducherry-Karaikal, Coastal & South Interior Karnataka during next 5 days; over North Interior Karnataka & Coastal Andhra Pradesh on 05<sup>th</sup> & 06<sup>th</sup> April.
  - Isolated **thunderstorm/lightning** activity also very likely over Tamilnadu-Puducherry-Karaikal & Karnataka on 05<sup>th</sup> & 06<sup>th</sup> April and over Kerala & Mahe during next 5 days.
- ✓ **An upper air cyclonic circulation likely to form over South Andaman Sea & neighbourhood on 06<sup>th</sup> April. Under its influence, a Low Pressure Area is likely to form over Southeast Bay of Bengal during subsequent 24 hours. Under its influence:**
  - **Squally Weather** (wind speed reaching 40-50 kmph gusting to 60 kmph) likely over South Andaman & adjoining Southeast Bay of Bengal on 05<sup>th</sup> & 06<sup>th</sup>; over central parts of South Bay of Bengal on 07<sup>th</sup>; over southwest Bay of Bengal 08<sup>th</sup>; over southwest Bay of Bengal and along & off Sri Lanka coast on 09<sup>th</sup> April 2022. Fishermen are advised not to venture into these areas.

### For more details refer:

[https://mausam.imd.gov.in/imd\\_latest/contents/subdivisionwise-warning.php](https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php)



**Expected impact & action suggested** due to **very heavy rainfall** over Meghalaya on 05<sup>th</sup> April, 2022.

### Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

### Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

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

### 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