



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

**Date: 04<sup>th</sup> April, 2022  
Time of Issue: 1245 hrs IST**

**Subject:**

- i) **Heat Wave Spell likely to continue over most parts of northwest India & Madhya Pradesh during next 5 days and over Gujarat during next 2 days.**
- ii) **Heavy to very heavy rainfall spells over Arunachal Pradesh and Assam-Meghalaya.**
- iii) **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 03/04/2022) were **41-43°C** in most parts over West Rajasthan, northwest Madhya Pradesh, Vidarbha and north Gujarat state & Marathwada and **40-42°C** in most places over remaining parts of Madhya Pradesh; in some parts over southern parts of Uttar Pradesh, remaining parts of Gujarat state and in isolated pockets over Haryana-Delhi, Madhya Maharashtra, Jharkhand, 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 **by 4-6°C** in many parts over West Rajasthan Punjab, Haryana-Delhi and in isolated pockets over East Rajasthan, Madhya Pradesh, West Uttar Pradesh, Gujarat State, Vidarbha and Madhya Maharashtra.
- ✓ **Heat Wave to Severe Heat Wave conditions** were observed in most pockets of West Rajasthan and in some pockets of Himachal Pradesh and Haryana, Delhi and **Heat Wave conditions** in some pockets of East Rajasthan and East Madhya Pradesh and in isolated pockets of Jammu Division and West Madhya Pradesh.
- ✓ **Chief Rainfall amount (in cm): Meghalaya:** Anlarem-41; Mawkyrwat-24; Jowai-20; Mawphlang-19; Sohra-15; **Assam:** Manas-15; Bijni-13; Beki Rd. Bridge-11; Barpeta-10; **Arunachal Pradesh:** Dambuk and Pasighat-15; Itanagar-13; Paglam-12; Karsingsa and Roing-11 each; **Sikkim:** Sankalan & Singhik-7 each.

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

- ✓ No significant change in maximum temperatures very likely over many parts of Northwest India Gujarat during next 48 hours and rise by about 2°C thereafter.
- ✓ No significant change in maximum temperatures very likely over Gujarat during next 48 hours and fall by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures very likely over rest parts of the country during next 5 days.

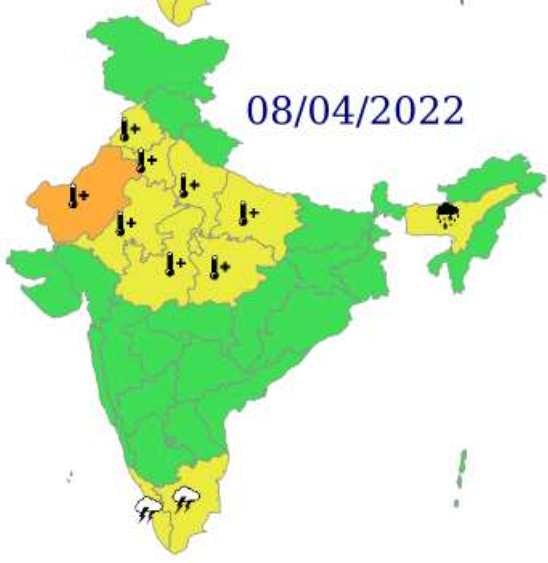
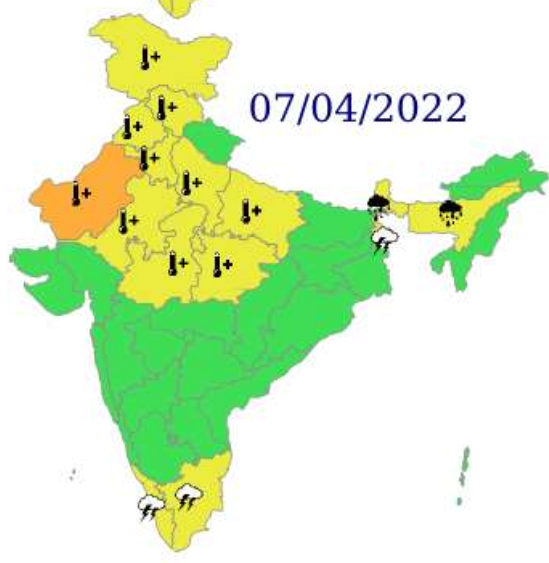
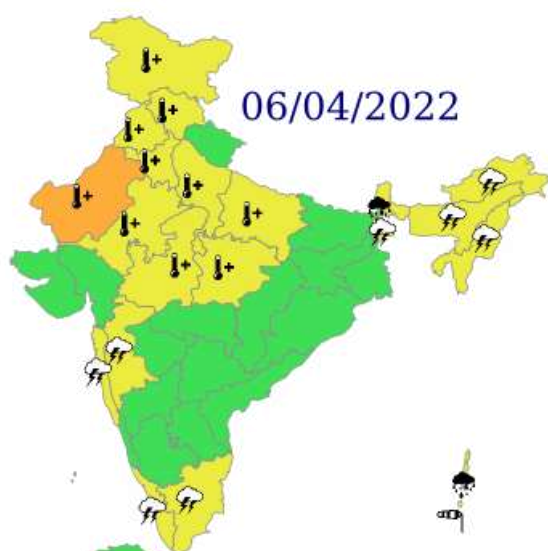
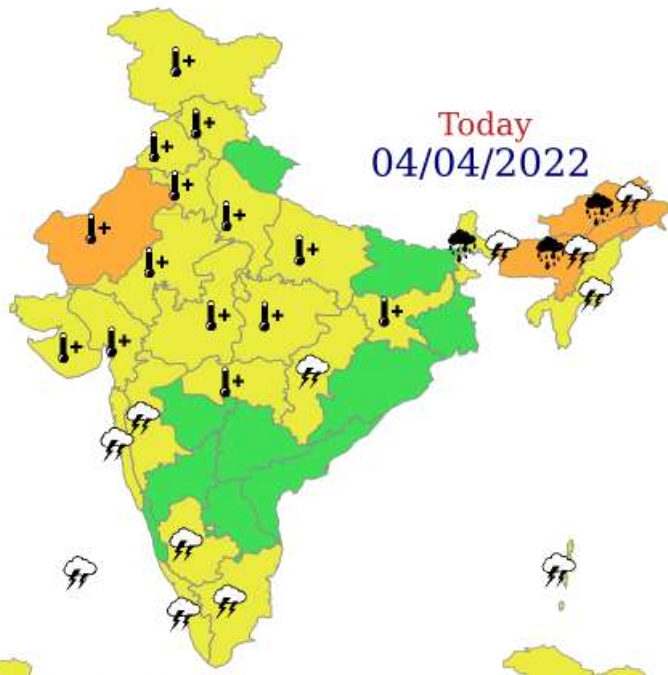
- ✓ **Heat Wave conditions** in many parts with **severe heat wave conditions** in isolated pockets very likely over Rajasthan and **Heat Wave to Severe heat wave conditions** in isolated pockets over West Uttar Pradesh during next 5 days.
- ✓ **Heat Wave conditions** in some parts with **severe heat wave conditions** in isolated pockets very likely over Punjab and south Haryana-Delhi during next 2-days and **heat wave conditions** in isolated pockets over these areas during subsequent 3 days.
- ✓ **Heat Wave conditions** in some parts over Madhya Pradesh & East Uttar Pradesh during next 5 days; over Jammu division, Himachal Pradesh during 04<sup>th</sup>-07<sup>th</sup> and over west Vidarbha, Jharkhand & Gujarat state on 04<sup>th</sup> & 05<sup>th</sup> April.

### 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 during next 5 days and isolated to scattered rainfall over Nagaland, Manipur, Mizoram & Tripura during next 2 days and reduction thereafter.
- ✓ **Isolated very heavy rainfall** very likely over Assam, Arunachal Pradesh & Sub-Himalayan West Bengal-Sikkim and isolated **extremely heavy rainfall over Meghalaya on 04<sup>th</sup> April, 2022. Isolated heavy rainfall** also likely over Arunachal Pradesh on 05<sup>th</sup> & over Assam-Meghalaya on 05<sup>th</sup>, 07<sup>th</sup> & 08<sup>th</sup> April and over Sub-Himalayan West Bengal-Sikkim during 05<sup>th</sup>-07<sup>th</sup> April.
- ✓ Isolated **thunderstorm/lightning** activity also very likely over Assam-Meghalaya, Arunachal Pradesh, Nagaland, Manipur and Sub-Himalayan West Bengal-Sikkim during next 04<sup>th</sup>-06<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 and Telangana during 04<sup>th</sup>- 06<sup>th</sup> April.
  - Isolated **thunderstorm/lightning** activity also very likely over Tamilnadu-Puducherry-Karaikal & Kerala & Mahe during next 5 days; over South Interior Karnataka on 04<sup>th</sup> & 05<sup>th</sup> and over Telangana, Coastal & North Interior Karnataka on 05<sup>th</sup> April, 2022.
- ✓ **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:**
  - **Isolated heavy rainfall** likely over Andaman & Nicobar Islands on 06<sup>th</sup> April, 2022.
  - **Squally Weather** (wind speed reaching 40-50 kmph gusting to 60 kmph) likely over Southeast Bay of Bengal & adjoining south Andaman on 06<sup>th</sup> April; (wind speed reaching 45-55 kmph gusting to 65 kmph) over Southeast Bay of Bengal on 07<sup>th</sup> April; (wind speed reaching 50-60 kmph gusting to 70 kmph) over central parts of south Bay of Bengal along & off Sri Lanka coast 08<sup>th</sup> April, 2022. Fishermen are advised not to venture into this area.

**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/extremely heavy rainfall** over Arunachal Pradesh and Meghalaya on 04<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 during next 5 days.

### 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