



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

**Date: 31<sup>st</sup> March, 2022  
Time of Issue: 1200 hrs IST**

**Subject:**

- i) Heat Wave Spell likely to continue over Northwest, Central & West India during next 4-5 days. However, intensity of Heat Wave Spell will reduce over Northwest India from 01<sup>st</sup> April, 2022.**
- ii) Isolated heavy rainfall over Arunachal Pradesh and Assam-Meghalaya on 31<sup>st</sup> March, 01<sup>st</sup>, 03<sup>rd</sup> & 04<sup>th</sup> April.**

**Weather observed during past 24 hours:**

- ✓ **Maximum Temperatures** (as on 30/03/2022) were **41-42°C** in most parts over West Rajasthan, West Madhya Pradesh, Vidarbha; in isolated pockets over East Uttar Pradesh, Saurashtra-Kutch, Rayalaseema, Marathwada and **40-41°C** in many parts over East Madhya Pradesh, Haryana; in isolated pockets over West Uttar Pradesh, East Rajasthan, Telangana, Gujarat Region, Madhya Maharashtra, Jharkhand and Interior Odisha.
- ✓ The maximum temperatures were **above normal by 6-8°C** at many parts over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Delhi, West Rajasthan and **by 4-6°C** in some parts over West Uttar Pradesh, Madhya Pradesh, East Rajasthan, Jharkhand and at isolated places over East Uttar Pradesh, Saurashtra-Kutch, Vidarbha and Gangetic West Bengal.
- ✓ **Heat Wave to Severe Heat Wave conditions** observed in most parts of West Rajasthan; in many parts of Himachal Pradesh; in some parts of Haryana and Delhi and **Heat Wave conditions** in some parts of East Rajasthan and Madhya Pradesh and in isolated pockets of Jammu Division and Uttar Pradesh.

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

- ✓ No significant change in maximum temperatures very likely over most parts of Northwest India during next 24 hours and fall by about 1-2°C thereafter over the plains of Northwest India.
- ✓ Gradual rise in maximum temperatures by 2-3°C very likely over most parts of Gujarat & Maharashtra during next 3 days and no significant change 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 rest parts of the country during next 5 days.

- ✓ **Heat wave to severe heat wave conditions in many parts very likely to continue over West Rajasthan on 31<sup>st</sup> March & in some parts on 01<sup>st</sup> April; in some parts over East Rajasthan & Madhya Pradesh and in isolated pockets over West Uttar Pradesh on 31<sup>st</sup> March. It is likely to reduce spatially and in terms of intensity over these areas during 01<sup>st</sup>-04<sup>th</sup> April with Heat wave conditions in isolated pockets over these areas during the same period.**
- ✓ **Isolated Heat Wave conditions** very likely over Himachal Pradesh on 31<sup>st</sup> March & 01<sup>st</sup> April; over south Haryana & Delhi & East Uttar Pradesh on 31<sup>st</sup> March; over Madhya Maharashtra, interior Odisha on 31<sup>st</sup> March & 01<sup>st</sup> April; over Telangana on 01<sup>st</sup> & 02<sup>nd</sup> April; over Vidarbha, Chhattisgarh, Saurashtra-Kutch, Jharkhand & Marathwada during 31<sup>st</sup> March-03<sup>rd</sup> April and over Gujarat region on 01<sup>st</sup>-04<sup>th</sup> April, 2022.

#### **Rainfall Forecast & Warnings:**

- ✓ Under the influence of a north-south trough from East Uttar Pradesh to Northwest Bay of Bengal and strong southwesterly winds from Bay of Bengal to northeastern states at lower tropospheric levels; fairly widespread to widespread light/moderate rainfall with **thunderstorm/lightning** (40-50 kmph) very likely over **Assam-Meghalaya**; with **thunderstorm/lightning/gusty winds** (30-40 kmph) over Nagaland-Manipur-Mizoram-Tripura and with **thunderstorm/lightning** over **Arunachal Pradesh** on 31<sup>st</sup> March & 01<sup>st</sup> April.
- ✓ **Isolated heavy rainfall** likely over Assam-Meghalaya & Arunachal Pradesh during 31<sup>st</sup> March, 01<sup>st</sup>, 03<sup>rd</sup> & 04<sup>th</sup> April and over Sub-Himalayan West Bengal-Sikkim on 03<sup>rd</sup> & 04<sup>th</sup> April; 2022.
- ✓ Under the influence of trough/wind discontinuity over south Peninsular India,
  - Light to moderate isolated/scattered rainfall very likely over Kerala-Mahe, Tamilnadu-Puducherry-Karaikal and South Interior Karnataka during next 5 days.
  - Isolated **thunderstorm/lightning** activity also very likely over Tamilnadu-Puducherry-Karaikal, Lakshadweep, Rayalaseema & South Interior Karnataka on 31<sup>st</sup> March and over Kerala & Mahe during next 5 days.

#### **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)



**Impact expected and action suggested due to heat wave to severe heat wave conditions over Rajasthan and Madhya Pradesh 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.

<b>SPATIAL DISTRIBUTION</b> (% 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)



<b>WARNING</b>	
WARNING (TAKE ACTION)	
ALERT (BE PREPARED)	
WATCH (BE UPDATED)	
NO WARNING (NO ACTION)	

<b>Probabilistic Forecast</b>	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

