



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

**Press Release
Date: 29th April, 2022
Time of Issue: 1245 hrs IST**

Subject:

- i) Heat wave conditions to continue over Northwest & Central India till 02nd May and over East India till 30th April and abate thereafter.**
- ii) Formation of a Low Pressure area over south Andaman Sea around 05th May, 2022.**

Weather observed during past 24 hours:

- ✓ **Heat wave conditions** prevailed in many parts of Punjab, northwest Rajasthan and Vidarbha; in some parts of Himachal Pradesh, West Madhya Pradesh and Jharkhand and in isolated pockets of Haryana-Delhi, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Gujarat State, Bihar, Gangetic West Bengal and Odisha.
- ✓ **Maximum Temperatures** (as on 28/04/2022) were **43-46°C** over most parts of Rajasthan, Vidarbha, Madhya Pradesh & East Uttar Pradesh; in many parts over Gujarat, interior Odisha; in some parts of Madhya Maharashtra and in isolated pockets of Bihar, Jharkhand, interior Gangetic West Bengal and **40-43°C** over most parts of Haryana-Delhi, Punjab and in isolated pockets of West Uttar Pradesh, Chhattisgarh, Marathwada, Telangana and Rayalaseema.

Maximum Temperature forecast and Heat Wave warning:

- ✓ No significant change in maximum temperatures very likely over many parts of Northwest India (except over East Uttar Pradesh & south Rajasthan, where fall is likely from 02nd May) till 02nd May and fall by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures very likely over many parts of Central India & Gujarat till 01st May and fall by about 2°C thereafter.
- ✓ No significant change in maximum temperatures very likely over most parts of East India till 30th April and fall by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures very likely over rest parts of the country.

Heat wave conditions:

- **Heat Wave conditions** in some parts over West Rajasthan during 29th-30th April with Severe Heat Wave Conditions on 01st May and gradually decreases into **Heat Wave conditions** in isolated pockets on 02nd May.

- **Heat Wave conditions in some/isolated parts** over
 - Vidarbha, Madhya Pradesh during next 5 days
 - Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan & northern parts of Telangana during next 4 days
 - East Uttar Pradesh, Jharkhand during 29th April-01st May
 - Bihar, interior Odisha, Gangetic West Bengal, Chhattisgarh, Gujarat State, Madhya Maharashtra on 29th & 30th April.

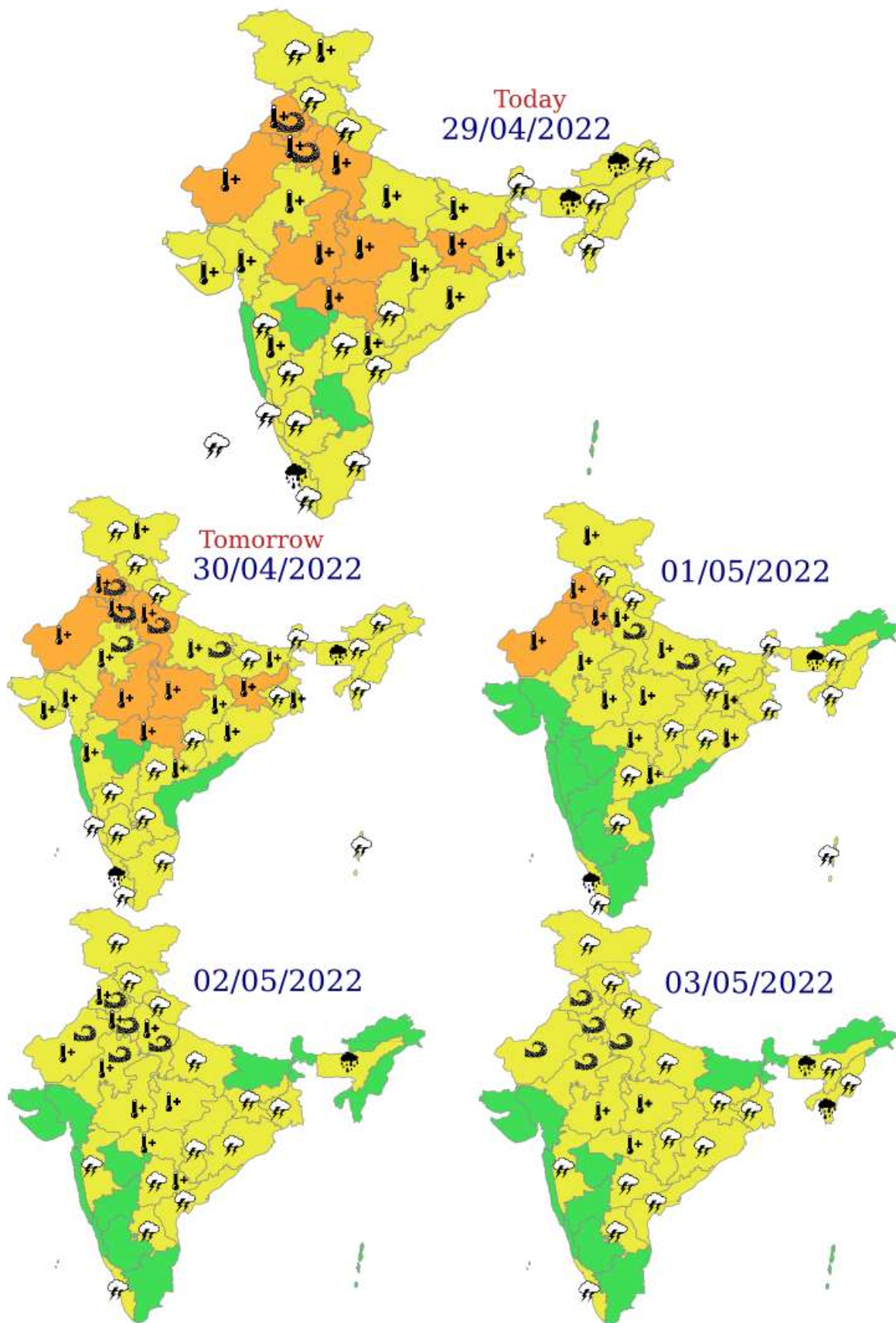
Rainfall/thunderstorm Forecast & Warnings:

- ✓ Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels:
 - ❖ Fairly widespread/widespread rainfall with **thunderstorm/lightning/gusty winds (speed reaching 40-50 kmph)** very likely over Arunachal Pradesh, Assam-Meghalaya and scattered/fairly widespread rainfall over Nagaland-Manipur-Mizoram-Tripura & Sub-Himalayan West Bengal-Sikkim during next 5 days. **Thunderstorm/lightning & squall (speed reaching 50-60 kmph)** very likely over Assam-Meghalaya and Nagaland-Manipur-Mizoram-Tripura on 29th April, 2022.
 - ❖ **Isolated heavy rainfall** very likely over Arunachal Pradesh on 30th; over Assam-Meghalaya during 30th April-03rd May and over Nagaland-Manipur-Mizoram-Tripura on 03rd May.
- ✓ Under the influence of a **Western Disturbance** as a trough in mid & upper tropospheric westerlies along Long. 62°E & to the north of Lat. 32°N: light/moderate isolated to scattered rainfall accompanied with **thunderstorm/lightning/gusty winds (speed reaching 30-40 kmph)** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during next 3 days. Isolated **hailstorm** also likely over Uttarakhand during 29th April-01st May, 2022.
- ✓ **Duststorm** very likely at isolated places over Punjab, Haryana-Chandigarh-Delhi on 29th & 30th April and Uttar Pradesh & East Rajasthan on 30th April.
- ✓ Under the influence of another fresh Western Disturbance likely to affect Northwest India from the night of 01st May, 2022:
- ✓ Light to moderate scattered/fairly widespread rainfall accompanied with **thunderstorm & lightning** very likely over Western Himalayan Region during 02nd-04th May. Isolated **hailstorm** also likely over the region on 03rd May, 2022.
 - ❖ Isolated light rainfall likely over plains of northwest India during 02nd-04th May.
 - ❖ **Duststorm/Thunderstorm** very likely at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and West Rajasthan on 02nd & 03rd May and over East Rajasthan on 03rd May.
- ✓ Due to trough/wind discontinuity over peninsular India in lower tropospheric levels:
 - ❖ Isolated to scattered rainfall with **thunderstorm/lightning** very likely over Kerala, Karnataka, Tamil Nadu, Andhra Pradesh and Telangana during next 5 days.
 - ❖ **Isolated heavy rainfall** very likely over Kerala during 29th April-01st May.

- ✓ A cyclonic circulation is likely to form over South Andaman Sea and neighbourhood around 04th May. Under its influence, a **Low Pressure Area** is likely to form over the same region during next 24 hours. It is likely become more marked during subsequent 24 hours.
- ❖ Under its influence, fairly widespread to widespread rainfall likely to occur over Andaman and Nicobar Islands with isolated heavy rainfall over Nicobar Islands on 04th May.
- ❖ **Squally wind (speed reaching 40-50 kmph gusting to 60 kmph)** is likely to prevail over South Andaman Sea on 04th May. Fishermen are advised not to venture into South Andaman Sea and adjoining southeast Bay of Bengal on 04th May.

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

- Vidarbha, Madhya Pradesh during next 5 days
- Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan & northern parts of Telangana during next 4 days
- East Uttar Pradesh, Jharkhand during 29th April-01st May
- Bihar, interior Odisha, Gangetic West Bengal, Chhattisgarh, Gujarat State, Madhya Maharashtra on 29th & 30th April.

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)



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

