

Government of India Ministry of Earth Sciences India Meteorological Department

> Press Release Date: 16<sup>th</sup> April, 2023 Time of Issue: 1400 hours IST

Subject: (i) Heat wave conditions likely over West Bengal, Bihar and Coastal Andhra Pradesh during next 4-5 days; over Punjab and Haryana next 2 days and abate thereafter.
(ii) A fresh spell of rainfall over Western Himalayan Region from 16<sup>th</sup> April and over plains of northwest India from 18<sup>th</sup> April.

# Weather observed during past 24 hours ending at 0830 hrs IST of today: Refer Annexure I

# **Significant Meteorological features:**

- ✤ A Western Disturbance as a trough in middle tropospheric westerlies runs roughly along Long. 59°E to the north of Lat. 28°N.
- A cyclonic circulation lies over north Pakistan & adjoining Punjab in lower tropospheric levels.
- A trough/wind discontinuity runs from south Madhya Maharashtra to Tamil Nadu in lower tropospheric levels.

## Maximum Temperatures and Heat Wave observed:

- Maximum Temperatures are in the range of 40-42°C over some/many parts of plains of Northwest India & adjoining Madhya Pradesh and East India and 35-40°C over many parts of rest of the country except over Western Himalayan Region (25-30°C) & Islands (30-34°C). Maximum Temperatures are above normal by 3-5°C over many parts of Northwest, East & Northeast India.
- Heat Wave conditions are prevailing in isolated pockets over Gangetic West Bengal since last 5 days; Coastal Andhra Pradesh since last 3 days and Bihar since last 2 days.

# Maximum Temperatures Forecast and Heat Wave Warnings (Graphics in Annexure II): Northwest India:

- No significant change in Maximum Temperatures very likely during next 2 days and gradual fall by 2-4°C during subsequent 3 days.
- Heat wave conditions are very likely in isolated pockets over Punjab and Haryana on 16th & 17th April and abate thereafter.

## East India:

- No significant change in Maximum Temperatures very likely during next 5 days.
- Heat wave conditions are very likely in isolated/some pockets over Gangetic West Bengal and Bihar during next 5 days and over Sub-Himalayan West Bengal & Sikkim during next 3 days.

## **Central India:**

- Rise in Maximum Temperatures by 2-3°C very likely during next 3 days and fall by about 2°C during subsequent 2 days.
- Heat wave conditions very likely in isolated pockets over West Madhya Pradesh on 17th & 18th April.

## South Peninsular India:

- Rise in Maximum Temperatures by about 2°C very likely over Andhra Pradesh and Telangana during next 5 days.
- Heat wave conditions very likely in isolated pockets over Coastal Andhra Pradesh & Yanam during next 3 days.

## West India:

Rise in Maximum Temperatures over Maharashtra by 2-4°C during next 5 days.

#### Rainfall Forecast and Warnings (Graphics in Annexure II): Northwest India:

- Light/moderate scattered rainfall with thunderstorm/lightning very likely over Western Himalayan Region during next 5 days.
- Heavy rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 18th; over Himachal Pradesh on 18th & 19th and over Uttarakhand on 19th April.
- Hailstorm over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 16th & 17th; over Himachal Pradesh during 16th to 18th and over Uttarakhand during 18th to 20th April.

# West India:

Light isolated rainfall with thunderstorm/lightning/gusty winds very likely over parts of Maharashtra next 5 days.

# No significant weather likely over rest parts of the country.

For more details kindly refer: https://mausam.imd.gov.in/responsive/all\_india\_forcast\_bulletin.php https://mausam.imd.gov.in/responsive/districtWiseNowcast.php

**Annexure I** 

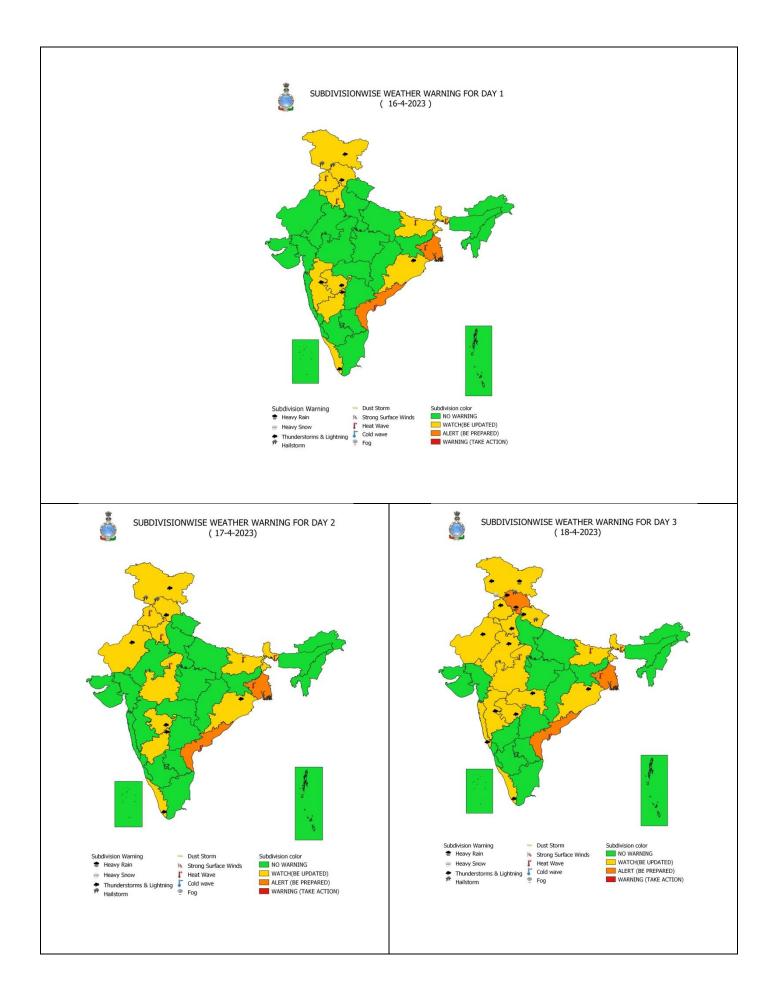
# **Observations:**

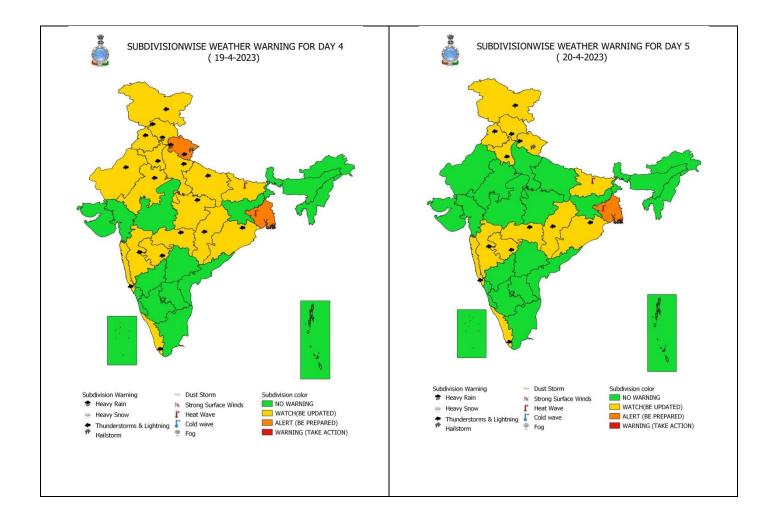
- Rainfall/thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Odisha, Madhya Pradesh, Maharashtra, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Significant rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Vidarbha: Buldana (dist Buldhana) 3; Madhya Maharashtra: Imd Obsy (dist Satara) 1, Wai (dist Satara) 1, Satna Baglan (dist Nashik) 1, Purandar Sasvad (dist Pune) 1, Mahabaleshwar- Imd Obsy (dist Satara) 1, Nashik - Imd Obsy (dist Nashik) 1; East Rajasthan: Kishangarh (dist Ajmer) 1.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Odisha and Madhya Maharashtra.
- Hailstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Himachal Pradesh, Madhya Maharashtra and Marathwada.

# Agromet advisories for heat wave and rainfall accompanied with thunderstorms/gusty winds likely over various parts of the country

- Complete the harvesting of matured wheat, mustard and vegetables at the earliest in Jammu & Kashmir, Himachal Pradesh and Uttarakhand and move the harvested produce to safer places. Also make necessary arrangements for draining out excess water from the crop fields.
- Use hail nets to protect orchards in Jammu & amp; Kashmir and Himachal Pradesh.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Provide light and frequent irrigation to crops in Punjab, Haryana, West Bengal, Bihar, West Madhya Pradesh and Coastal Andhra Pradesh during morning and evening hours.

**Annexure II** 





# 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:

- 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.
- **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamilnadu, 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 Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)			

Subdivision Warning		Dust Storm	Subdivision color
🐨 Heavy Rain	<b>N</b>	Strong Surface Winds	NO WARNING
💮 Heavy Snow	1	Heat Wave	WATCH(BE UPDATED)
Thunderstorms & Lightning	L	Cold wave	ALERT (BE PREPARED)
🗭 Hailstorm	100	Fog	WARNING (TAKE ACTION)

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