



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

Press Release

Date: 31st July, 2023

Time of Issue: 1330 hours IST

- Subject: i) Heavy to very heavy rainfall activity likely to continue over east and east central India during next 3 days.**
- ii) Increase in rainfall activity over Northeast India from 03rd August.**
- iii) Increase in rainfall activity over northwest India during 02nd-03rd August.**
- iv) Enhancement of rainfall activity over Konkan & Goa, ghat areas of Madhya Maharashtra, Coastal Karnataka on 02nd and 03rd August and reduction in rainfall will continue over remaining parts of peninsular India & West India during next 5 days.**

Weather observed during past 24 hours ending at 0830 hours IST of today (Annexure I):

Significant Weather features:

- ❖ Yesterday's **Low Pressure** Area over north Odisha and adjoining West Bengal Coasts lay as a **Well Marked Low Pressure Area** over central parts of North Bay of Bengal today morning. It is likely to move northwestwards and concentrate into a **Depression** during next 12 hours.
- ❖ The Western end of the Monsoon Trough at mean sea level runs close to foothills of Himalayas and Eastern end now passes through Darbhanga, Deoghar, Canning, center of Well Marked Low Pressure Area over central parts of North Bay of Bengal and thence southeastwards to eastcentral Bay of Bengal. The eastern end of the Monsoon trough likely to shift northwards towards foothills of the Himalayas by 06th August.
- ❖ A cyclonic circulation lies over southwest Uttar Pradesh & neighbourhood in middle tropospheric levels.
- ❖ The Western Disturbance as a trough in mid-tropospheric westerlies now runs roughly from Long. 74°E & 38°N to Long. 62°E & 27°N

Weather Forecast and Warning (Annexure II):

Northwest India: Light/moderate scattered to fairly widespread rainfall with isolated **heavy rainfall** is very likely over Uttarakhand, East Uttar Pradesh during 01st-04th August; Haryana, West Uttar Pradesh during 02nd-04th August; Himachal Pradesh & East Rajasthan on 03rd & 04th and over Punjab 03rd August.

Isolated very heavy rainfall also likely over Uttarakhand & West Uttar Pradesh on 02nd & 03rd August and over East Uttar Pradesh on 02nd August.

Central India: Light/moderate scattered to fairly widespread rainfall with isolated **heavy rainfall** is very likely over East Madhya Pradesh during 01st-03rd; north Chhattisgarh on 01st & 02nd, over Northwest Madhya Pradesh on 02nd & 03rd and Vidarbha on 02nd August. **Isolated very heavy rainfall also likely over East Madhya Pradesh on 02nd August.**

East India: Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning and **heavy rainfall** at isolated places very likely over Bihar during 01st-04th August; Odisha during 31st July to 03rd August; over Gangetic West Bengal and Jharkhand during 31st July to 02nd August; over Sub-Himalaya West Bengal & Sikkim on 03rd & 04th August.

Isolated very heavy rainfall also very likely over Odisha during 31st July to 02nd August; over Jharkhand on 01st & 02nd August and over Gangetic West Bengal on 01st August and Sub-Himalaya West Bengal & Sikkim on 03rd & 04th August, 2023.

Northeast India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over the region during next 5 days with isolated **very heavy rainfall on 03rd & 04th August, 2023.**

West India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely to continue over Konkan & Goa and ghat areas of Madhya Maharashtra during next 5 days with possibility of very heavy rainfall on 03rd August, 2023.

South India: Light/moderate widespread rainfall with **isolated heavy rainfall** very likely over Coastal Karnataka during 02nd-04th August and reduced rainfall activity over the remaining regions.

Hot and Humid weather also very likely over Tamil Nadu on 31st July, 2023.

For more details kindly refer:

https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

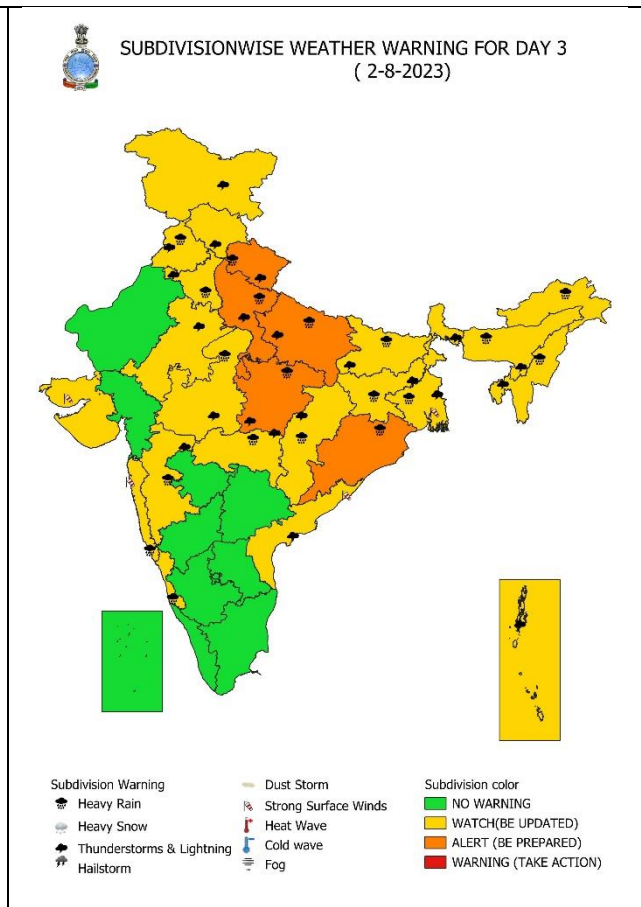
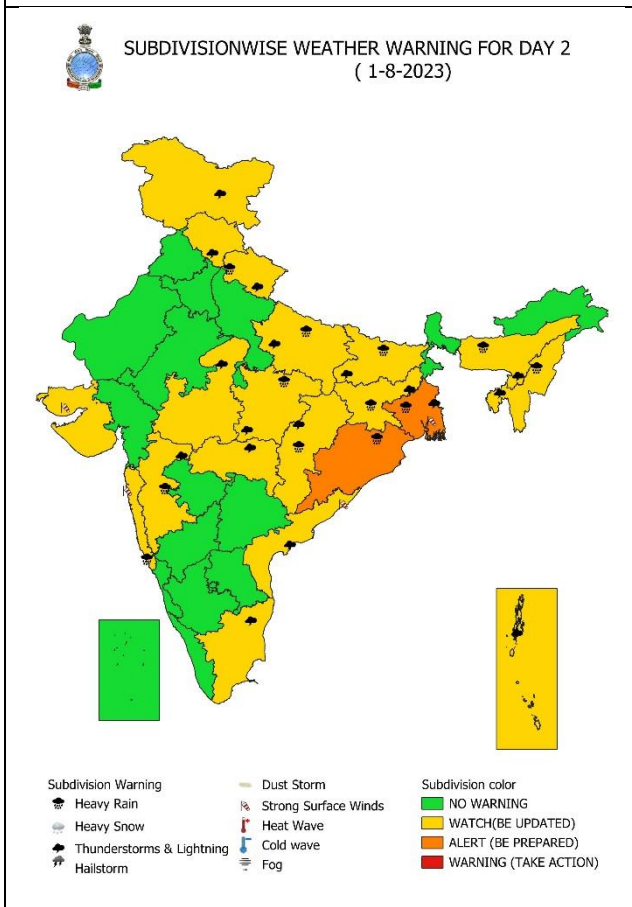
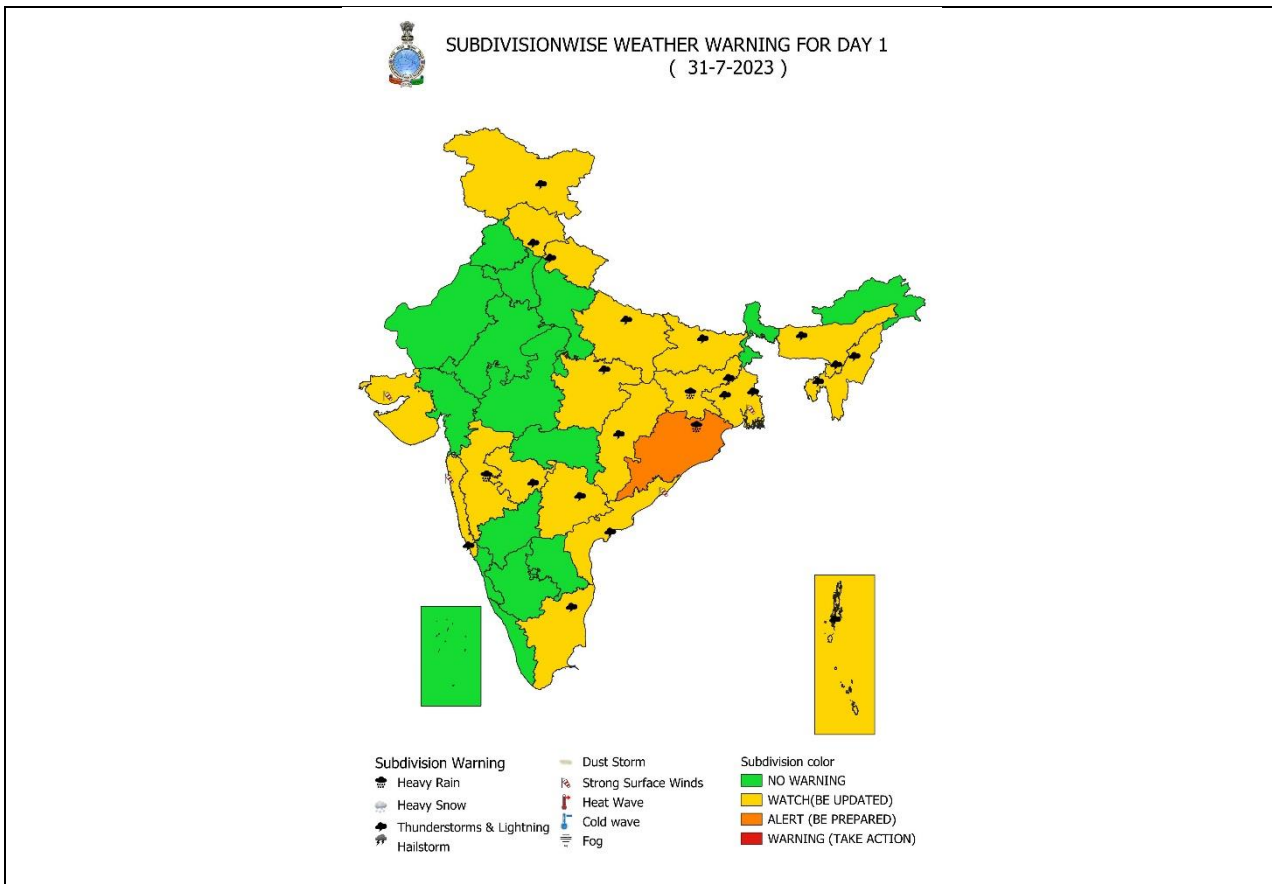
Rainfall Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 31st July 2023):

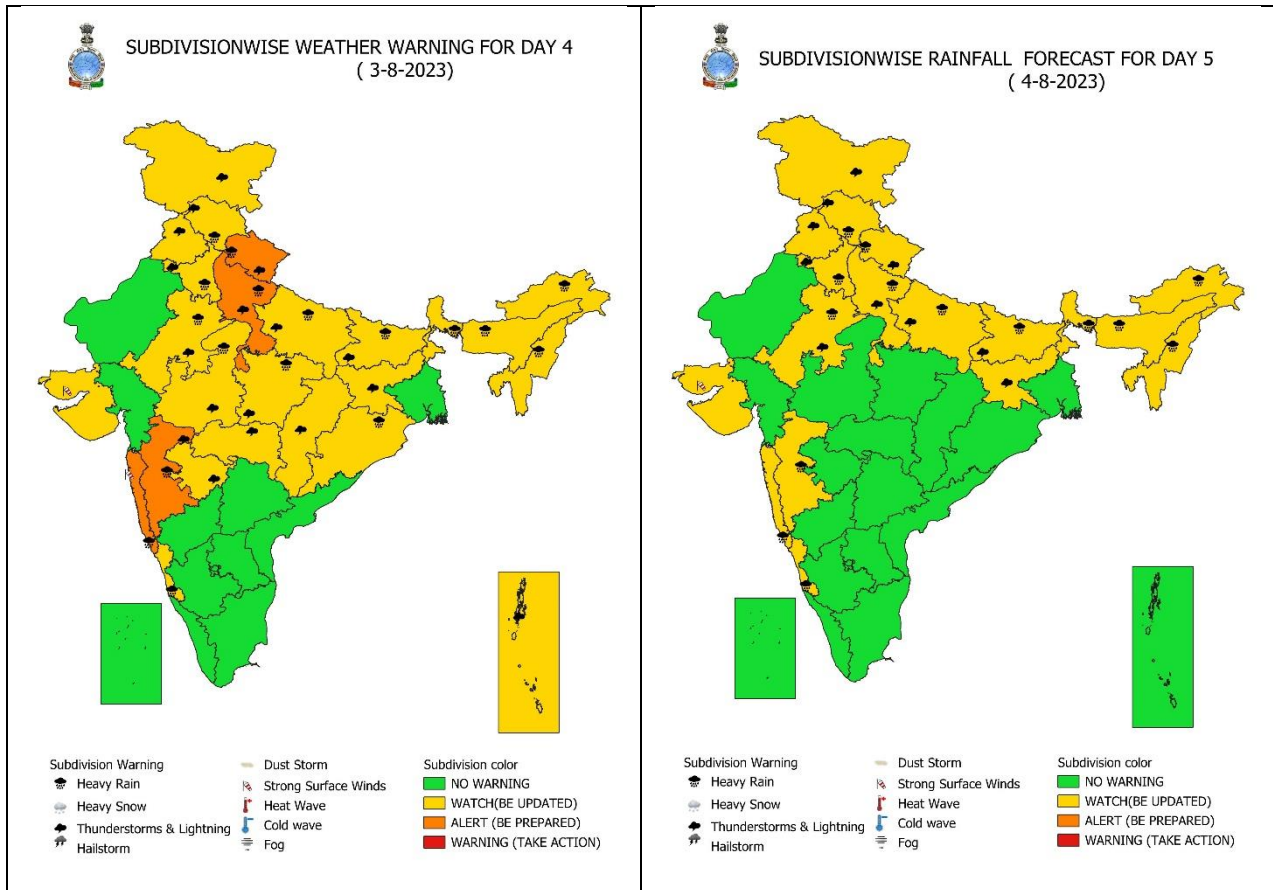
➤ **Heavy rainfall** at isolated places over West Madhya Pradesh, Uttar Pradesh, Andaman & Nicobar Islands, Gangetic West Bengal, Madhya Maharashtra, Tripura, Assam, Odisha, Jharkhand and Bihar.

➤ **Significant rainfall recorded (in cm):**

- ✓ **Andaman & Nicobar Islands:** Long Island-11
- ✓ **Gangetic West Bengal:** Tamluk-11
- ✓ **West Madhya Pradesh:** Badarwas (dist Shivpuri) 10, Mau (dist Bhind) 6,
- ✓ **Assam & Meghalaya:** Khowang (dist Dibrugarh) 10,
- ✓ **Madhya Maharashtra:** Mahabaleshwar- Imd Obsy (dist Satara) 9,
- ✓ **Jharkhand:** Khusiyari, Boram-8 each; Goilkera-7;
- ✓ **Bihar:** Begusarai-8, Patna, Samastipur -7 each
- ✓ **Odisha:** Thakurmunda (dist Mayurbhanj) 8, Astaranga (dist Puri) 7, Balikuda (dist Jagatsinghpur) 7,
- ✓ **Tripura:** Udaipur (dist Gomati) 7, Gandechera (dist Dhalai) 7,

❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation





Impact & Action Suggested due to very heavy rainfall over:

- Odisha during 31st July-02nd August**
- Jharkhand on 01st & 02nd July**
- Gangetic West Bengal on 01st August**
- East Madhya Pradesh on 02nd August**
- Uttarakhand & West Uttar Pradesh 02nd & 03rd August.**

A. 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 kutchha roads.
- ❖ Possibilities of damage to vulnerable structure.
- ❖ Localized Landslides/Mudslides in the hilly areas.
- ❖ 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).














B. 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.

Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station
- ❖ **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, 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)

Subdivision Warning		Subdivision color	
 Heavy Rain	 Dust Storm	 NO WARNING	
 Heavy Snow	 Strong Surface Winds	 WATCH(BE UPDATED)	
 Thunderstorms & Lightning	 Heat Wave	 ALERT (BE PREPARED)	
 Hailstorm	 Cold wave	 WARNING (TAKE ACTION)	
	 Fog		

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