



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

Press Release

Date: 17th August, 2023

Time of Issue: 1300 hours IST

**Subject: i) Heavy rainfall activity likely over East & adjoining central India during 17th-19th and over northeast India during 17th -21st August, 2023.
ii) Subdued rainfall activity likely to continue over rest parts of the country during next 4-5 days.**

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

Significant Weather features:

- ❖ The western end of the Monsoon Trough runs close to the foothills of the Himalayas and its eastern end runs south of its normal position. The eastern end is likely to be south of its normal position during next 4-5 days.
- ❖ A cyclonic circulation over northwest Bay of Bengal & neighbourhood in lower & middle tropospheric levels tilting southwards with height. Under its influence, a Low pressure area is likely to form over the same area during next 12 hours.
- ❖ The Western Disturbance as a trough in middle tropospheric westerlies runs roughly along Long. 70°E to the north of Lat. 32°N.

Weather Forecast and Warnings: (Annexure II)

East India: Light/moderate scattered to fairly widespread rainfall with **isolated heavy rainfall** activity very likely over Gangetic West Bengal on 17th; over Odisha during 17th to 19th; over Jharkhand on 17th & 18th; Bihar on 17th & 21st and Sub-Himalaya West Bengal & Sikkim on 21st August, 2023.

Isolated extremely heavy falls also likely over Odisha on 17th and isolated very heavy rainfall on 18th August.

Central India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with isolated **heavy rainfall** activity very likely over Chhattisgarh during 17th to 19st; over East Madhya Pradesh and Vidarbha on 18th & 19th; West Madhya Pradesh on 19th August, 2023.

Isolated very heavy rainfall also likely over Chhattisgarh on 18th August, 2023.

Northeast India: Light/moderate scattered to fairly widespread rainfall/thunderstorm & lightning with isolated **heavy rainfall** activity very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 17th to 21st August and Arunachal Pradesh during 19th-21st August, 2023.

Northwest India: Light/moderate scattered to fairly widespread rainfall/thunderstorm & lightning with isolated **heavy rainfall** likely over Uttarakhand, East Uttar Pradesh on 17th, 18th & 21st August and West Uttar Pradesh on 21st August, 2023.

South India: Light/moderate scattered to fairly widespread rainfall/thunderstorm & lightning with isolated

heavy rainfall activity very likely over Coastal Andhra Pradesh on 17th & 18th and Telangana on 18th & 19th August.

Hot and humid weather is likely to prevail over Tamil Nadu on 17th & 18th August, 2023.

Subdued rainfall activity likely over remaining parts of the country during next 5 days.

For more details kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

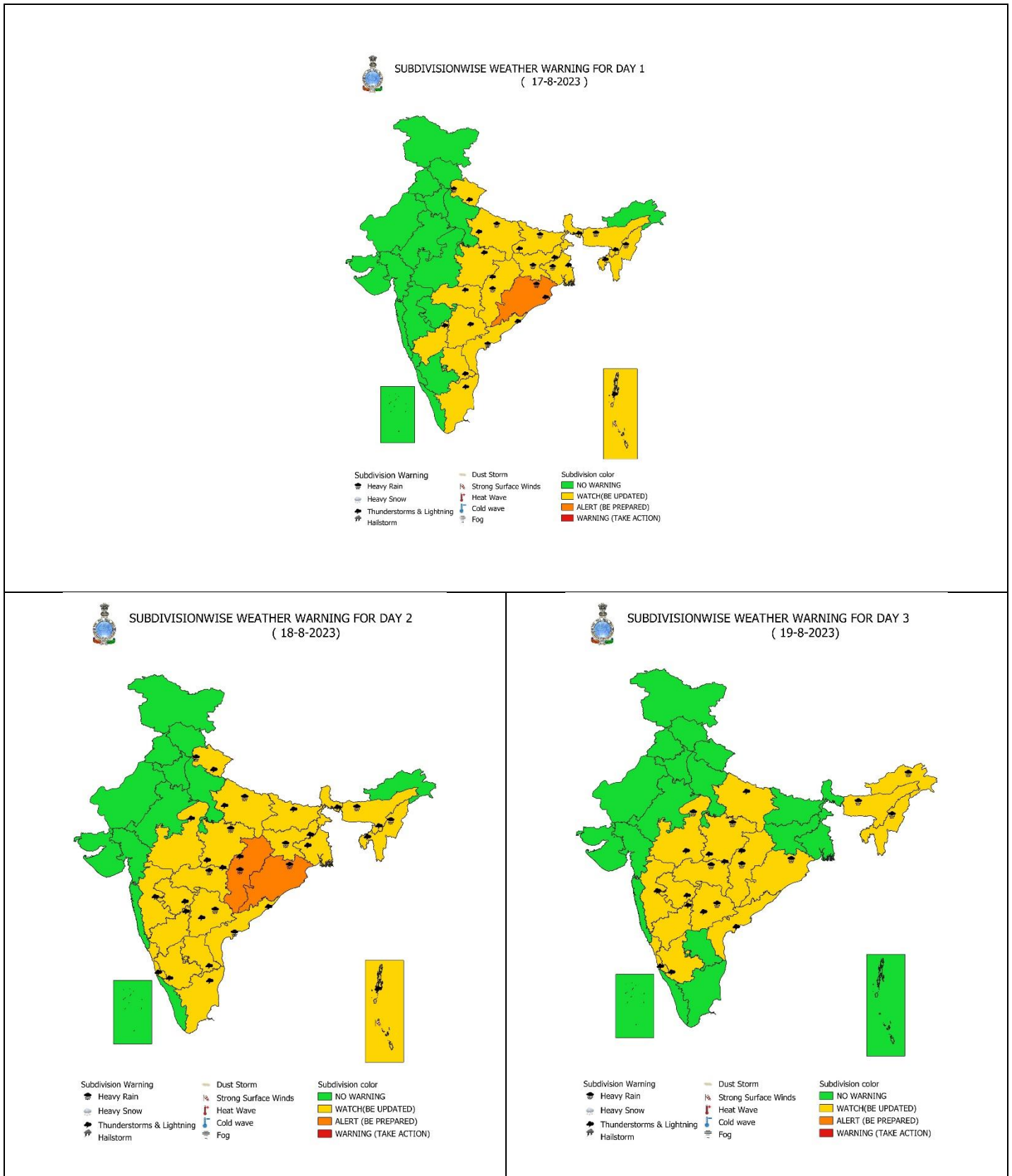
Annexure I

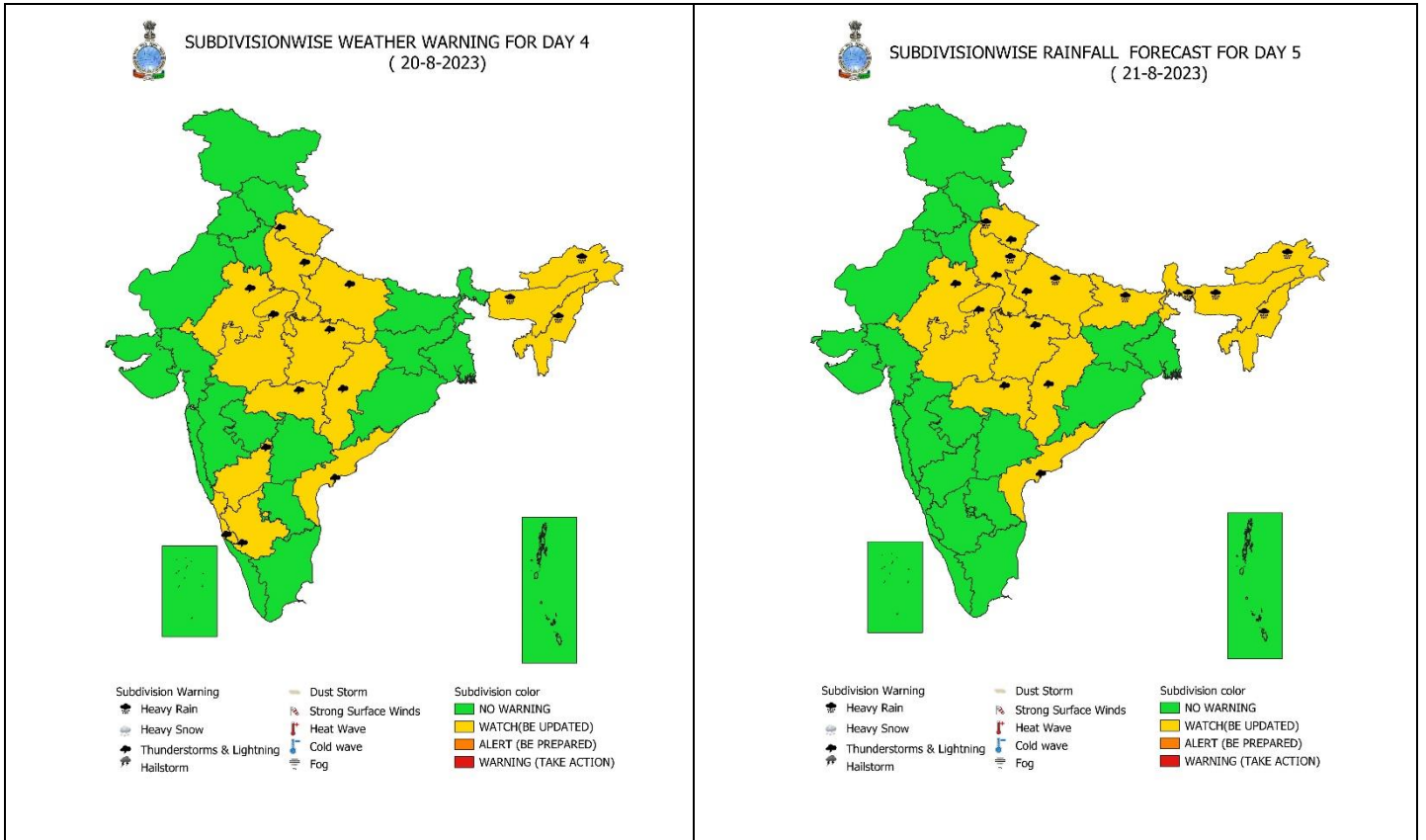
Rainfall Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 17th August, 2023):

- **Heavy to very heavy rainfall** at isolated places over Jharkhand, Bihar and **heavy rainfall** at isolated places over Meghalaya, Odisha, Uttarakhand and East Uttar Pradesh.

- **Significant rainfall recorded (in cm):**
 - ✓ **Jharkhand:** Bansjor-14; Jamshedpur, Godda-8 each; Gobindpur, Basia-7 Each;
 - ✓ **Bihar:** Araria-12, Champaran, Gaya, Banka, Bhagalpur-7 each
 - ✓ **Odisha:** Raruana (dist Mayurbhanj) 11, Udala (dist Mayurbhanj) 8, Padia (dist Malkangiri) 7, Joshipur (dist Mayurbhanj) 7, Deogaon (dist Jharsuguda) 7, Baripada (dist Mayurbhanj) 7,
 - ✓ **Meghalaya:** Shillong_ Aws (dist East Khasi Hills) 7,
 - ✓ **Uttarakhand:** Pithoragarh: Dharchulha-7,
 - ✓ **East Uttar Pradesh:** Maharajganj-7
 - ✓ **Himachal Pradesh:** Kataula (dist Mandi) 6,
 - ✓ **Tamil Nadu:** Uthukottai (dist Tiruvallur), Tiruttani (dist Tiruvallur) 6 each

Annexure II





Impact & Action Suggested due to very heavy rainfall over:

1. Odisha on 17th & 18th August
2. Chhattisgarh on 18th 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 kutcha 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; **∴** 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	 Dust Storm	Subdivision color
 Heavy Rain	 Strong Surface Winds	 NO WARNING
 Heavy Snow	 Heat Wave	 WATCH(BE UPDATED)
 Thunderstorms & Lightning	 Cold wave	 ALERT (BE PREPARED)
 Hailstorm	 Fog	 WARNING (TAKE ACTION)

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

Flash Flood Risk	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)