



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

Press Release

Date: 31st August, 2023

Time of Issue: 1245 hours IST

Subject: i) Increase in rainfall activity over East & adjoining central India from 02nd September, 2023.

ii) Isolated heavy rainfall activity likely over Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands during next 5 days; and extreme south Peninsular India during next 3 days.

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

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

Significant Weather features:

- The **Monsoon Trough** at mean sea level continues to run along the foothills of the Himalayas.
- A cyclonic circulation over Northeast Bay of Bengal & neighbourhood extending upto middle tropospheric level.
- A cyclonic circulation lies over Westcentral Bay of Bengal off Andhra Pradesh coast at lower tropospheric level.
- A fresh cyclonic circulation likely to form over Northwest Bay of Bengal & neighbourhood around 04th September 2023.

Weather Forecast and Warnings: (Annexure II)

Northeast India: Light/moderate scattered to fairly widespread rainfall with isolated **heavy rainfall** activity very likely over Assam & Meghalaya on 31st August and Nagaland, Manipur, Mizoram & Tripura during next 5 days.

East India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** activity very likely over Andaman & Nicobar Islands during next 05 days, **Gangetic West Bengal on 03rd** and over **Odisha during 02nd - 04th September**.

Central India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over **Chhattisgarh on 02nd & 03rd September**.

South India: Light/moderate scattered rainfall with isolated **heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal during 31st August-02nd September and over Kerala on 31st August & 01st September, over north Coastal Andhra Pradesh and Telangana **on 04th September 2023**.

Isolated very heavy rainfall very likely over **Tamil Nadu, Puducherry & Karaikal on 01st September**.

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

For more details kindly refer:

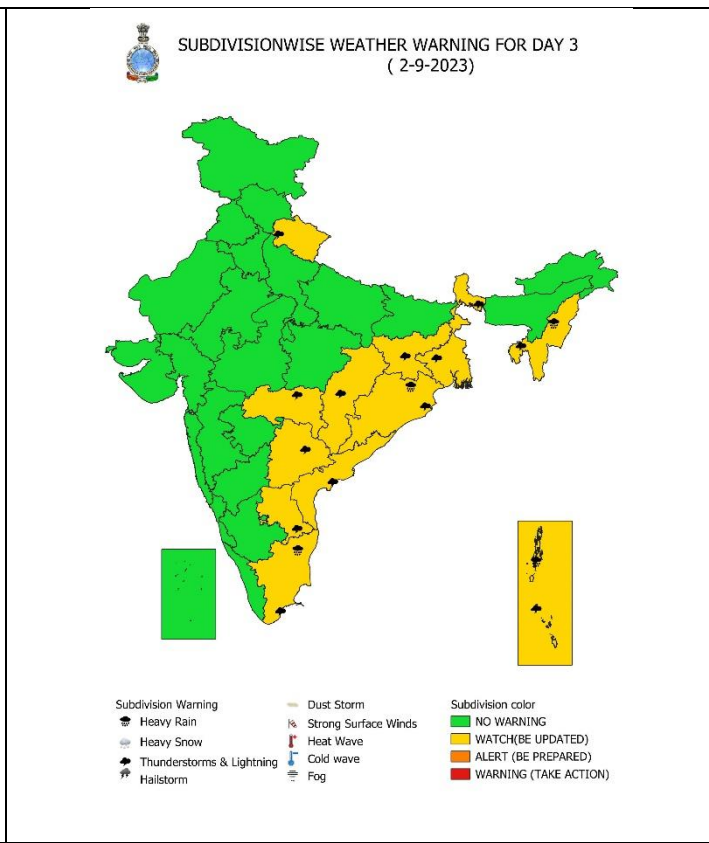
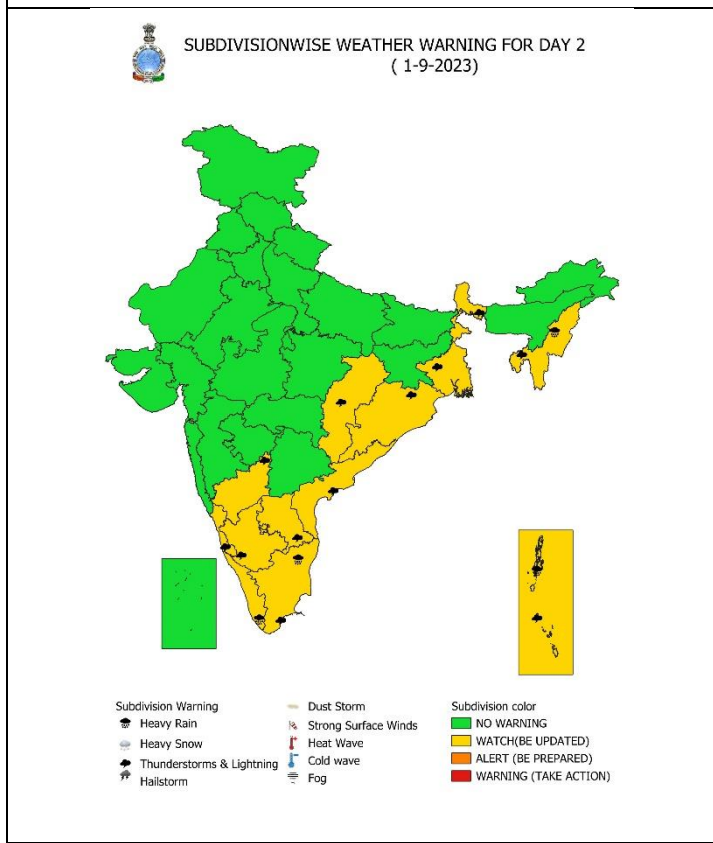
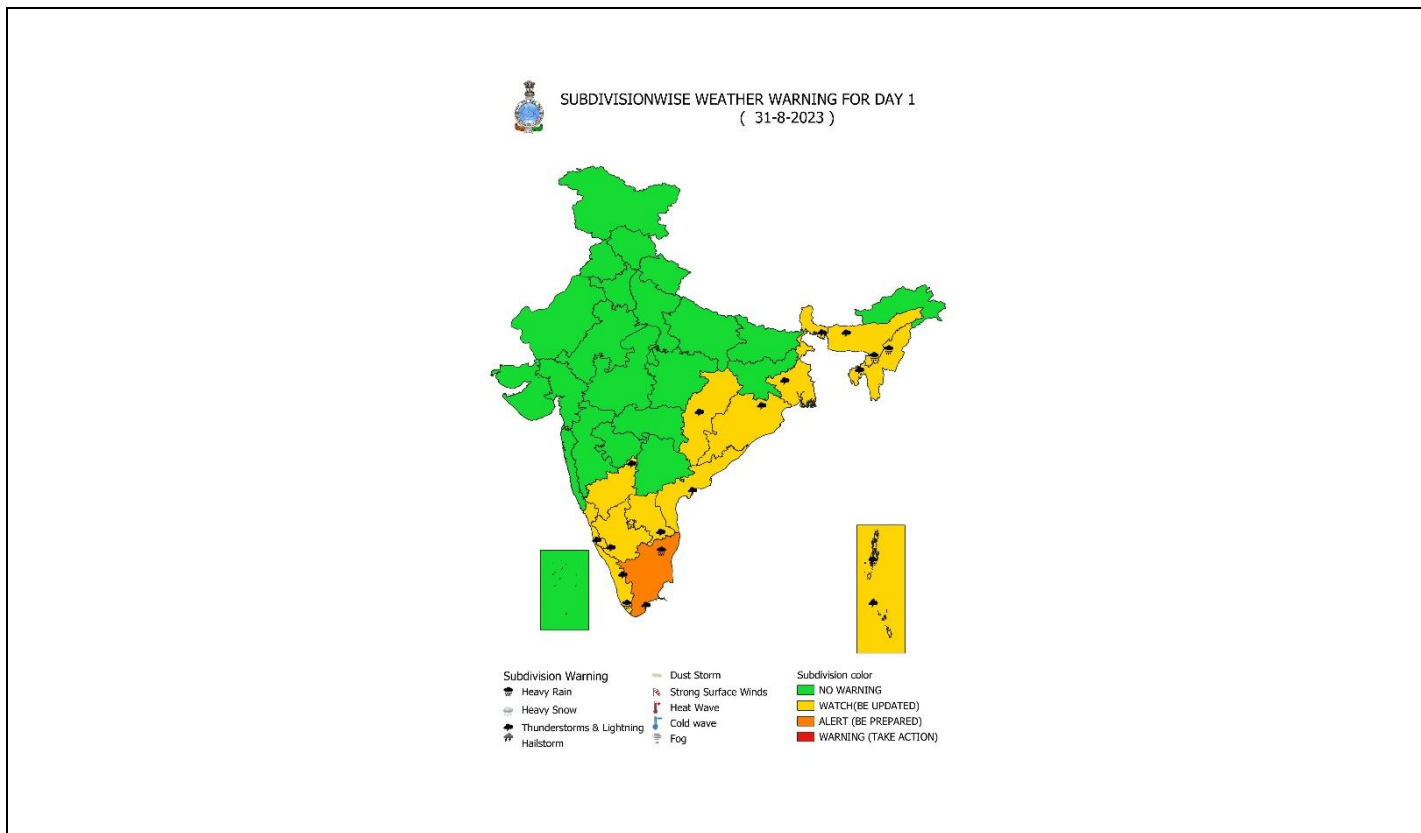
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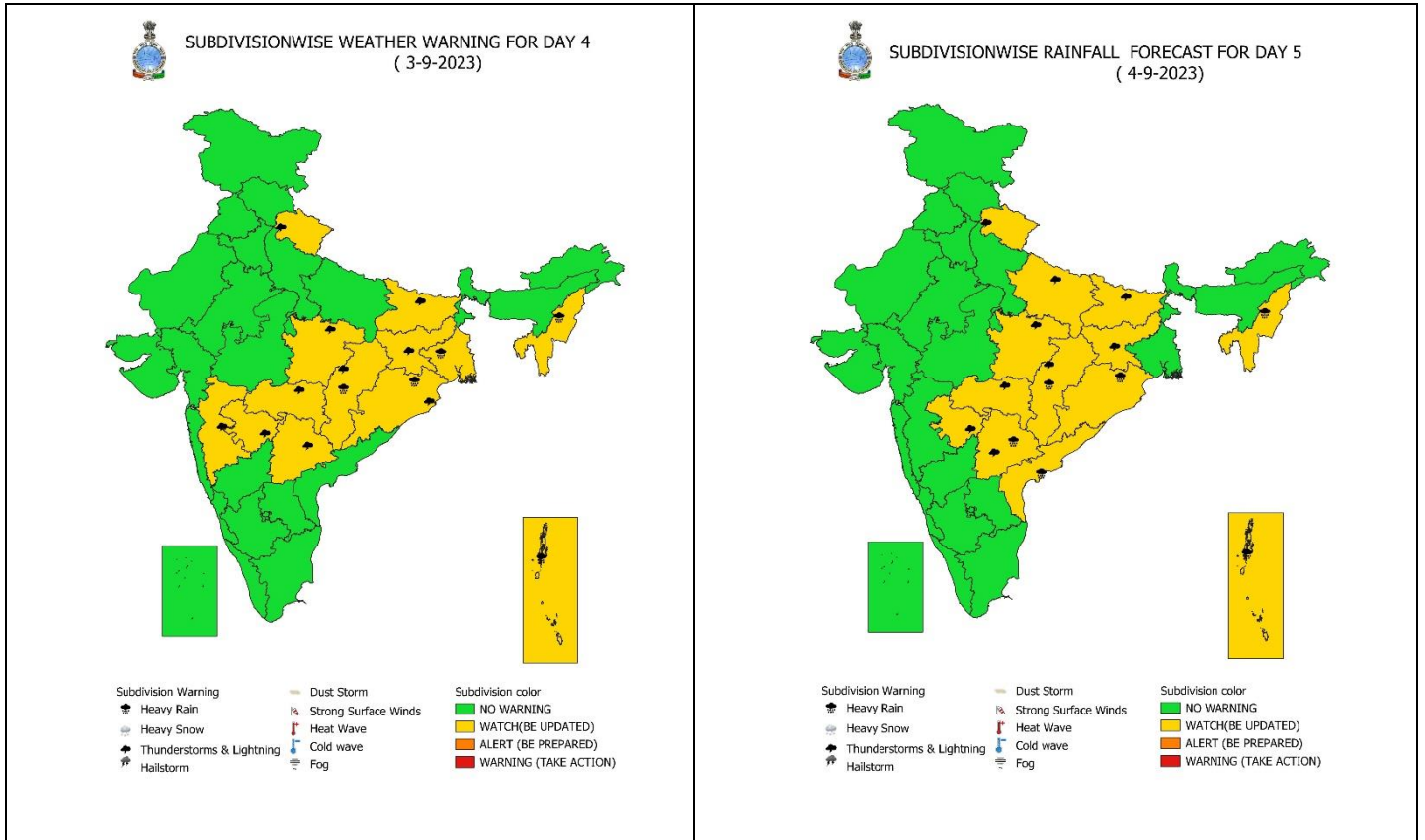
Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 31th August, 2023):

- **Heavy to very heavy rainfall** at isolated places over Tamil Nadu, Puducherry & Karaikal; **heavy rainfall** at isolated places over Sub-Himalaya West Bengal & Sikkim, Kerala & Mahe, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura

- **Significant rainfall recorded (in cm):**
 - ✓ **Tamil Nadu, Puducherry & Karaikal:** Tirupuvanam(Sivaganga) 14, Koliyanur (Villupuram) 12, Valavanur(Villupuram) 11, Nemoor (Villupuram) 11, Jambukuttapatti (Karishnagiri) 10, Uthangarai (Karishnogiri) 9, Chinnakalar (Coimbatore) 7,
 - ✓ **Kerala & Mahe:** Myladumpara_agri (dist Idukki) 6,
 - ✓ **Sub-Himalaya West Bengal:** Jhallong- 10 , Samsing- 6
 - ✓ **Assam & Meghalaya:** Dholai (dist Cachar) 7, Lakhipur (dist Cachar) 7, Raha ARG (dist Nagaon) 6, Matijuri (dist Hailakandi) 5, Harinagar ARG (dist Karimganj) 5
 - ✓ **Nagaland, Manipur, Mizoram & Tripura:** Amarpur (dist Gomati) 9, Kamalpur (dist Dhalai) 5, Ashapara AWS (dist North Tripura) 5

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 Tamil Nadu, Puducherry & Karaikal on 31st August, 2023.

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.
- ❖ **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	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)