



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

**Press Release  
Date: 04<sup>th</sup> August, 2023  
Time of Issue: 1230 hours IST**

**Subject: i) Low Pressure Area over northeast Madhya Pradesh & neighbourhood is likely to cause heavy to very heavy rainfall over Madhya Pradesh today.  
ii) Isolated heavy rainfall likely over Northwest India during next 3-4 days.  
iii) Subdued rainfall activity likely to continue over Peninsular India during next 5 days.  
iv) Increase in rainfall activity over Bihar & Jharkhand after two days due to remnant of Low Pressure Area.**

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

**Significant Weather features:**

- ❖ Yesterday's **Depression** over north Chhattisgarh & neighbourhood weakened into a Well-Marked Low Pressure Area over the same region at 1730 hrs IST of yesterday and further into a Low Pressure Area over northeast Madhya Pradesh & neighbourhood at 0830 hrs IST of today, the 04<sup>th</sup> August, 2023.
- ❖ The Western end of the Monsoon Trough lies north of its normal position. However, its eastern end lies south of its normal Position. The eastern end of monsoon trough likely to shift gradually northwards during next 3-4 days.

**Weather Forecast and Warnings:**

**Northwest India:** Light/moderate scattered to fairly widespread rainfall with isolated **heavy rainfall** is very likely over Uttarakhand, Uttar Pradesh during 04<sup>th</sup>-08<sup>th</sup> August; Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi during 04<sup>th</sup>-06<sup>th</sup> August; East Rajasthan on 04<sup>th</sup> & 05<sup>th</sup> August and Jammu on 05<sup>th</sup> August, 2023. **Isolated very heavy rainfall also likely over East Uttar Pradesh during 04<sup>th</sup>-07<sup>th</sup> and over Uttarakhand during 04<sup>th</sup>-06<sup>th</sup> and over West Uttar Pradesh on 04<sup>th</sup> August.**

**Central India:** Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** is very likely over Madhya Pradesh on 04<sup>th</sup> & 05<sup>th</sup> August with possibility of very heavy falls today.

**Northeast India:** Light/moderate fairly widespread to widespread rainfall with **isolated heavy to very heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur during next 5 days.

**West India:** Light/moderate scattered to fairly widespread rainfall with **isolated heavy rainfall** very likely to continue over Konkan & Goa and ghat areas of Madhya Maharashtra today and reduction thereafter.

**South India:** Subdued rainfall activity over the region during next 5 days. **Hot and humid weather conditions very likely to prevail over Tamil Nadu on 04<sup>th</sup> & 05<sup>th</sup> August.**

For more details kindly refer: [https://mausam.ind.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.ind.gov.in/responsive/all_india_forecast_bulletin.php)

### Rainfall Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 04<sup>th</sup> August, 2023):

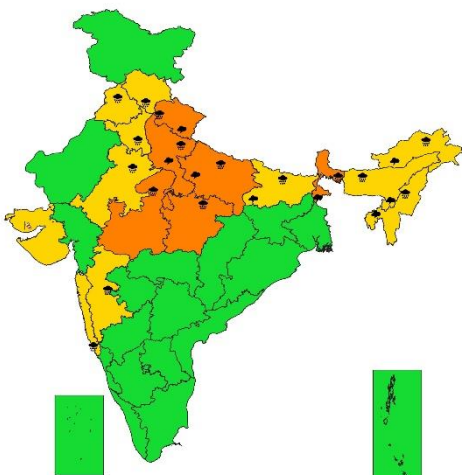
- **Heavy to very heavy rainfall at a few places with isolated Extremely heavy rainfall** occurred at Madhya Pradesh; **heavy to very heavy rainfall** at isolated places over Uttarakhand, Himachal Pradesh, West Uttar Pradesh, Tripura; **heavy rainfall** at isolated places over East Rajasthan, East Uttar Pradesh, Chhattisgarh, Assam & Meghalaya, Sub-Himalaya West Bengal and Coastal Karnataka.
- **Significant rainfall recorded (in cm):**
  - ✓ **East Madhya Pradesh:** Jabera (dist Damoh) 28, Ajaigarh (dist Panna) 22, Narsinghpur-aws (dist Narsinghpur) 18, Orchha (dist Niwari) 17, Tamia (dist Chindwara) 16, Gadarwara (dist Narsinghpur) 16, Simariya (dist Panna) 15, Panna-aws (dist Panna) 15, Kareli (dist Narsinghpur) 15, Mehadwani (dist Dindori) 15, Raipura (dist Panna) 15, Bakal (dist Katni) 13, Samnapur (dist Dindori) 13, Mohangarh (dist Tikamgarh) 13, Amarpatan (dist Satna) 13, Batiyagarh (dist Damoh) 13, Dindori-aws (dist Dindori) 13, Gotegaon (dist Narsinghpur) 13, Amanganj (dist Panna) 12,
  - ✓ **West Madhya Pradesh:** Bhandar (dist Datia) 22, Seodha(seondha) (dist Datia) 17, Pipariya (dist Narmadapuram) 17, Udaipura (dist Raisen) 16, Mau (dist Bhind) 13, Pachmarhi (dist Narmadapuram) 12, Bareli (dist Raisen) 12, Deori (dist Raisen) 12, Bankhedi (dist Narmadapuram) 12, Pathari (dist Vidisha) 11, Sultanpur (dist Raisen) 11, Salwani (dist Raisen) 10, Gairatgang (dist Raisen) 10, Khaniyadana (dist Shivpuri) 9, Mehgaon (dist Bhind) 9, Datia-aws (dist Datia) 9, Sohagpur (dist Narmadapuram) 9, Mungaoli (dist Ashoknagar) 9, Porsa (dist Morena) 9, Indergarh (dist Datia) 9, Pichhore (dist Shivpuri) 9, Mihona (dist Bhind) 9,
  - ✓ **Uttarakhand: Bageshwar:** Sama-15, Liti-13, Bageshwar-8, Dangoli-7; **Champawat:** Bastia-14, Tanakpur-11; **US Nagar:** Gular Bhoj-13; **Hardwar:** Bksar-9, Khanpur-8; **Tehri:** Narendranagar-12, **Pauri:** Bharsar-8
  - ✓ **Himachal Pradesh:** Dharmsala (dist Kangra) 12,
  - ✓ **Chhattisgarh:** Katghora (dist Korba) 11, Pendra (dist Bilaspur) 10, Pendra Road (dist Bilaspur) 7,
  - ✓ **West Uttar Pradesh:** Lalitpur: Lalitpur-15, Talbehat-12, Bijnor: Bijnor-12, Najibabad-7, Agra: Bah-11, Hamirpur: Maudaha-11, Etah: Etah-11; Moradabad: Moradabad-10; Rampur: Milak-10, Bulandshahar: Anupshahar-9, Sambhal: Sambhal-9; Firozabad: Jasrana-9; Jhansi: Garotha, Jhansi-8 each, Kasganj: Sahawar-8,
  - ✓ **Tripura:** Sabroom AWS (dist South Tripura) 12, Sabroom (dist South Tripura) 14, Bagafa (dist South Tripura) 08
  - ✓ **Assam & Meghalaya:** Sohra RKM (dist East Khasi hills) 10, Sohra (dist East Khasi hills) 09 Mawsynram (dist East Khasi hills) 9
  - ✓ **East Uttar Pradesh:** Banda: Naraini-9, Attarra-7;
  - ✓ **East Rajasthan:** Bayana (dist Bharatpur) 8, Malakhera Sr (dist Alwar) 7,
  - ✓ **Coastal Karnataka:** Castle Rock (dist Uttara Kannada) 8,
  - ✓ **Sub-Himalaya West Bengal & Sikkim:** Jalpaiguri, Cooch Behar-8 each

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

24 hours outlook for flash flood risk



SUBDIVISIONWISE WEATHER WARNING FOR DAY 1  
( 4-8-2023 )

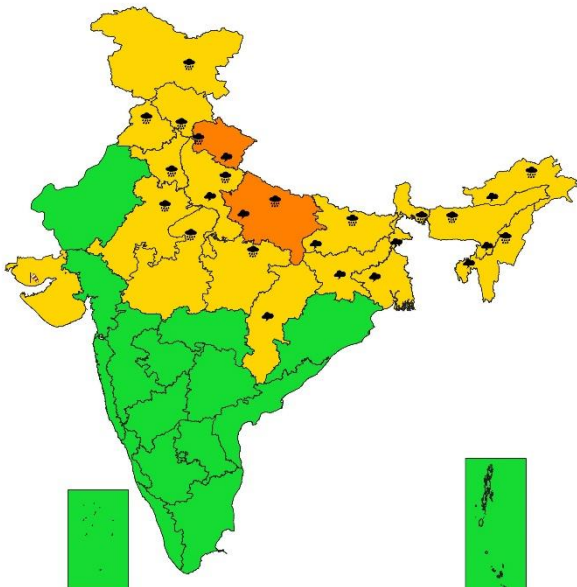


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|---|---|---|
| <ul style="list-style-type: none"> <li>Subdivision Warning</li> <li>☁ Heavy Rain</li> <li>❄ Heavy Snow</li> <li>⚡ Thunderstorms &amp; Lightning</li> <li>⚡ Hailstorm</li> </ul> | <ul style="list-style-type: none"> <li>☁ Dust Storm</li> <li>🌪 Strong Surface Winds</li> <li>🔥 Heat Wave</li> <li>❄ Cold wave</li> <li>🌫 Fog</li> </ul> | <ul style="list-style-type: none"> <li>Subdivision color</li> <li>🟢 NO WARNING</li> <li>🟡 WATCH (BE UPDATED)</li> <li>🟠 ALERT (BE PREPARED)</li> <li>🔴 WARNING (TAKE ACTION)</li> </ul> |
|---|---|---|

Product: GFS FFR | Timescale: 24-hr | Region: "REGIONAL"  
Product Date: 2023-08-04 06:00 UTC | Valid Date: 2023-08-05 06:00 UTC



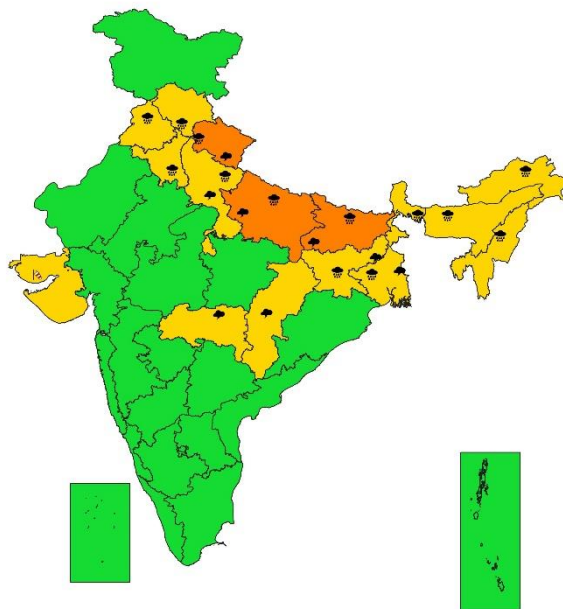
SUBDIVISIONWISE WEATHER WARNING FOR DAY 2  
( 5-8-2023 )



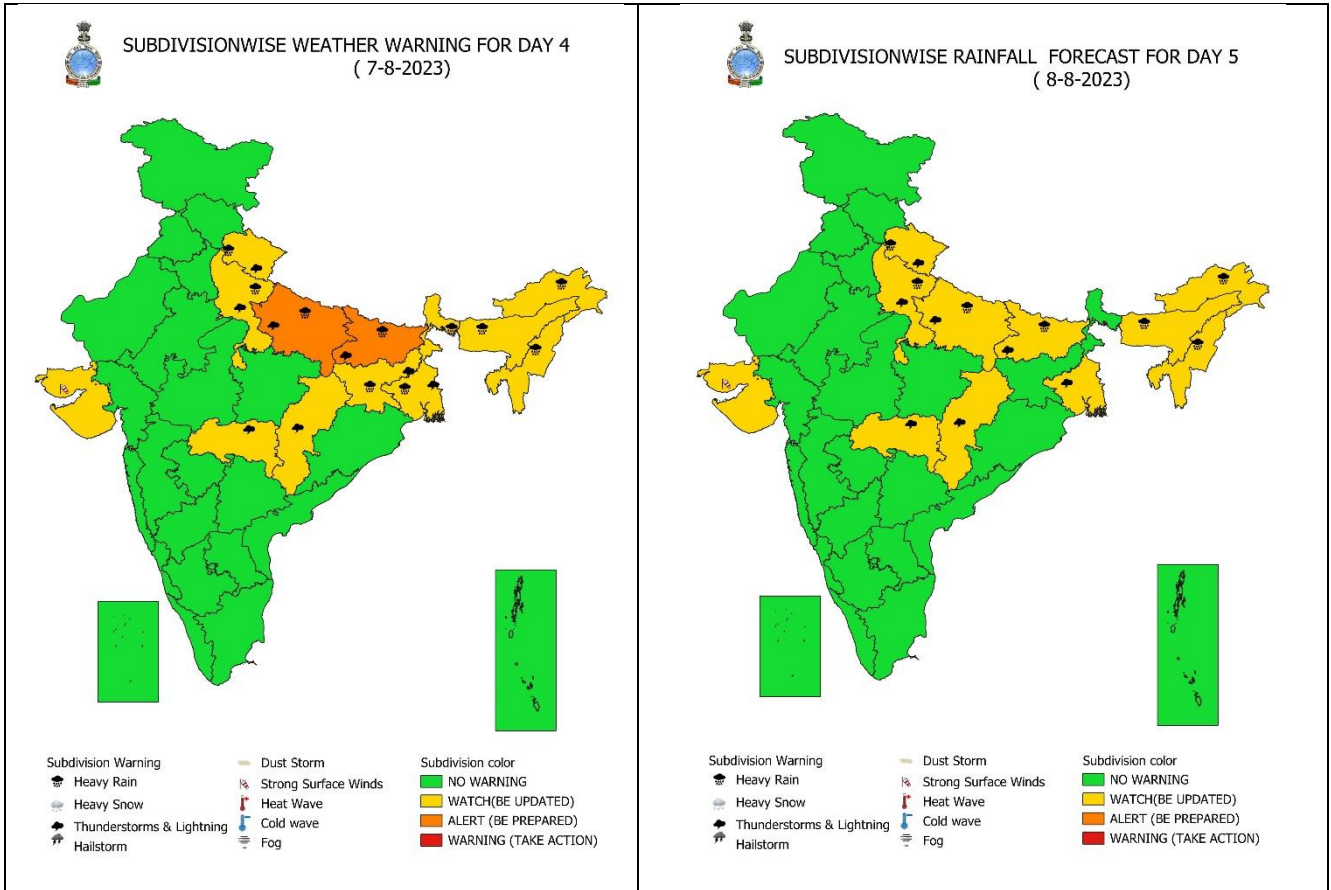
- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>Subdivision Warning</li> <li>☁ Heavy Rain</li> <li>❄ Heavy Snow</li> <li>⚡ Thunderstorms &amp; Lightning</li> <li>⚡ Hailstorm</li> </ul> | <ul style="list-style-type: none"> <li>☁ Dust Storm</li> <li>🌪 Strong Surface Winds</li> <li>🔥 Heat Wave</li> <li>❄ Cold wave</li> <li>🌫 Fog</li> </ul> | <ul style="list-style-type: none"> <li>Subdivision color</li> <li>🟢 NO WARNING</li> <li>🟡 WATCH (BE UPDATED)</li> <li>🟠 ALERT (BE PREPARED)</li> <li>🔴 WARNING (TAKE ACTION)</li> </ul> |
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SUBDIVISIONWISE WEATHER WARNING FOR DAY 3  
( 6-8-2023 )



- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>Subdivision Warning</li> <li>☁ Heavy Rain</li> <li>❄ Heavy Snow</li> <li>⚡ Thunderstorms &amp; Lightning</li> <li>⚡ Hailstorm</li> </ul> | <ul style="list-style-type: none"> <li>☁ Dust Storm</li> <li>🌪 Strong Surface Winds</li> <li>🔥 Heat Wave</li> <li>❄ Cold wave</li> <li>🌫 Fog</li> </ul> | <ul style="list-style-type: none"> <li>Subdivision color</li> <li>🟢 NO WARNING</li> <li>🟡 WATCH (BE UPDATED)</li> <li>🟠 ALERT (BE PREPARED)</li> <li>🔴 WARNING (TAKE ACTION)</li> </ul> |
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**Impact & Action Suggested due to very heavy/extremely heavy rainfall over:**

- 1. Madhya Pradesh and West Uttar Pradesh on 04<sup>th</sup> August**
- 2. East Uttar Pradesh & Uttarakhand during 04<sup>th</sup>-06<sup>th</sup> August;**
- 3. Assam & Meghalaya, Nagaland, Manipur on 06<sup>th</sup> August**
- 4. Moderate flash flood risk likely over few watersheds & neighbourhoods of Uttarakhand, southeast Himachal Pradesh, Arunachal Pradesh, Meghalaya, Nagaland, south Madhya Pradesh and central parts of south Uttar Pradesh Met Sub-divisions during next 24 hours.**

**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.

<b>SPATIAL DISTRIBUTION</b> (% 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	<span style="background-color: #00FF00; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> NO WARNING
Heavy Snow	Heat Wave	<span style="background-color: #FFD700; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> WATCH(BE UPDATED)
Thunderstorms & Lightning	Cold wave	<span style="background-color: #FFA500; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> ALERT (BE PREPARED)
Hailstorm	Fog	<span style="background-color: #FF0000; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> WARNING (TAKE ACTION)

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

<b>Flash Flood Risk</b>	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)