



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

**Press Release  
Date: 13<sup>th</sup> September, 2023  
Time of Issue: 1230 hours IST**

**Subject: 1) A Low Pressure Area lies over Northwest & adjoining Westcentral Bay of Bengal.  
2) Active monsoon conditions over east India during 13<sup>th</sup> to 15<sup>th</sup>; over central India during 13<sup>th</sup> to 17<sup>th</sup> and west India during 15<sup>th</sup> to 17<sup>th</sup> September, 2023.**

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

- ❖ Under the influence of cyclonic circulation over central & adjoining north Bay of Bengal, a **Low Pressure Area** has formed today morning and now it lies over Northwest & adjoining Westcentral Bay of Bengal. It is likely to become more marked during next 24 hours and move across Odisha and Chhattisgarh during next 3 days.
- ❖ A trough runs from central parts of south Uttar Pradesh to cyclonic circulation associated with the **Low Pressure Area** over Northwest & adjoining Westcentral Bay of Bengal across Chhattisgarh and Odisha in lower & middle tropospheric levels.
- ❖ The Monsoon Trough lies to the south of its normal position.

**Weather Forecast and Warnings: (Annexure II)**

**Northwest India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm with isolated **heavy falls** very likely over Uttarakhand during 14<sup>th</sup>-16<sup>th</sup>; southwest Uttar Pradesh on 15<sup>th</sup> & 16<sup>th</sup>; southeast Uttar Pradesh and East Rajasthan during 15<sup>th</sup>-17<sup>th</sup> September.

**Central India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over East Madhya Pradesh, Vidarbha during 13<sup>th</sup>-17<sup>th</sup>; West Madhya Pradesh during 14<sup>th</sup>-17<sup>th</sup> and Chhattisgarh during 13<sup>th</sup>-15<sup>th</sup> September.

**Isolated very heavy rainfall is also very likely over south Chhattisgarh on 13<sup>th</sup> & 14<sup>th</sup>; East Madhya Pradesh on 14<sup>th</sup> & 15<sup>th</sup>; West Madhya Pradesh on 15<sup>th</sup> & 16<sup>th</sup>; Vidarbha during 14<sup>th</sup>-16<sup>th</sup> September.**

**East India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Odisha during 13<sup>th</sup>-16<sup>th</sup>; Jharkhand on 14<sup>th</sup> & 15<sup>th</sup>; over Gangetic West Bengal on 13<sup>th</sup> & 14<sup>th</sup> and over Andaman & Nicobar Islands during 15<sup>th</sup> -17<sup>th</sup> September. **Isolated Extremely heavy rainfall also very likely over Odisha on 13<sup>th</sup> September and very heavy rainfall on 14<sup>th</sup> September.**

**South India:** Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Coastal Andhra Pradesh on 13<sup>th</sup> and over Telangana during 13<sup>th</sup>-15<sup>th</sup> September.

**West India:** Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Konkan & Goa, ghat areas of Madhya Maharashtra and Marathwada during 15<sup>th</sup>-17<sup>th</sup> September; Gujarat Region on 16<sup>th</sup> & 17<sup>th</sup> September.

**Isolated very heavy rainfall very likely over** ghat areas of Madhya Maharashtra and Marathwada on 16<sup>th</sup> & 17<sup>th</sup> September.

**Northeast India:** Light/moderate scattered to fairly widespread rainfall/thunderstorm with isolated **heavy rainfall** activity very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 13<sup>th</sup> & 14<sup>th</sup> September.

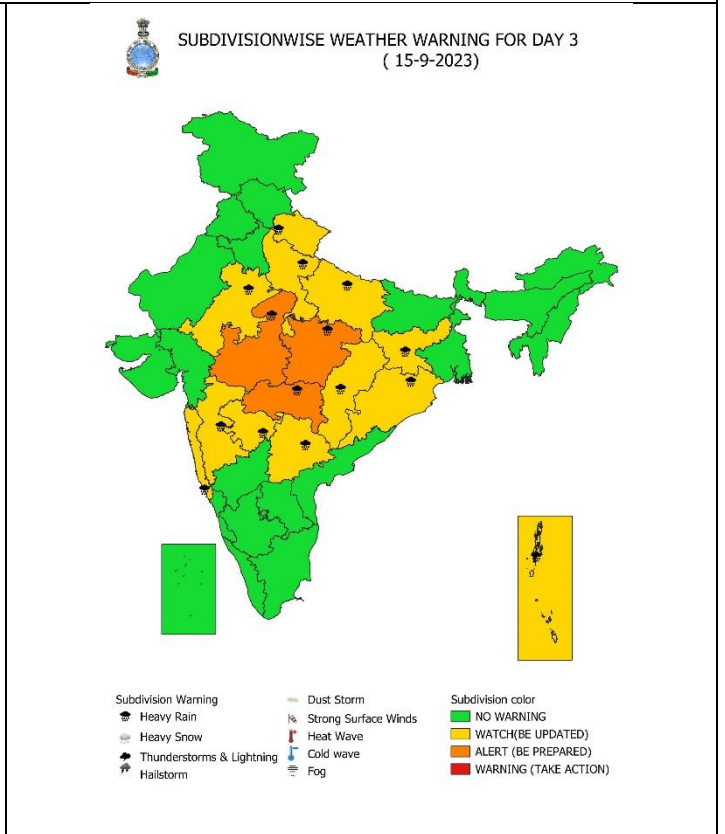
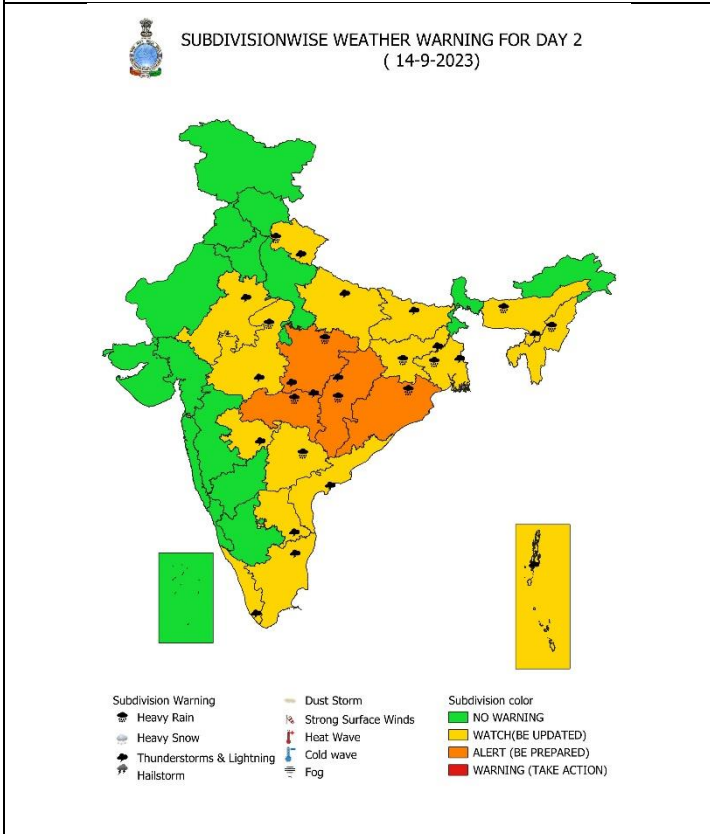
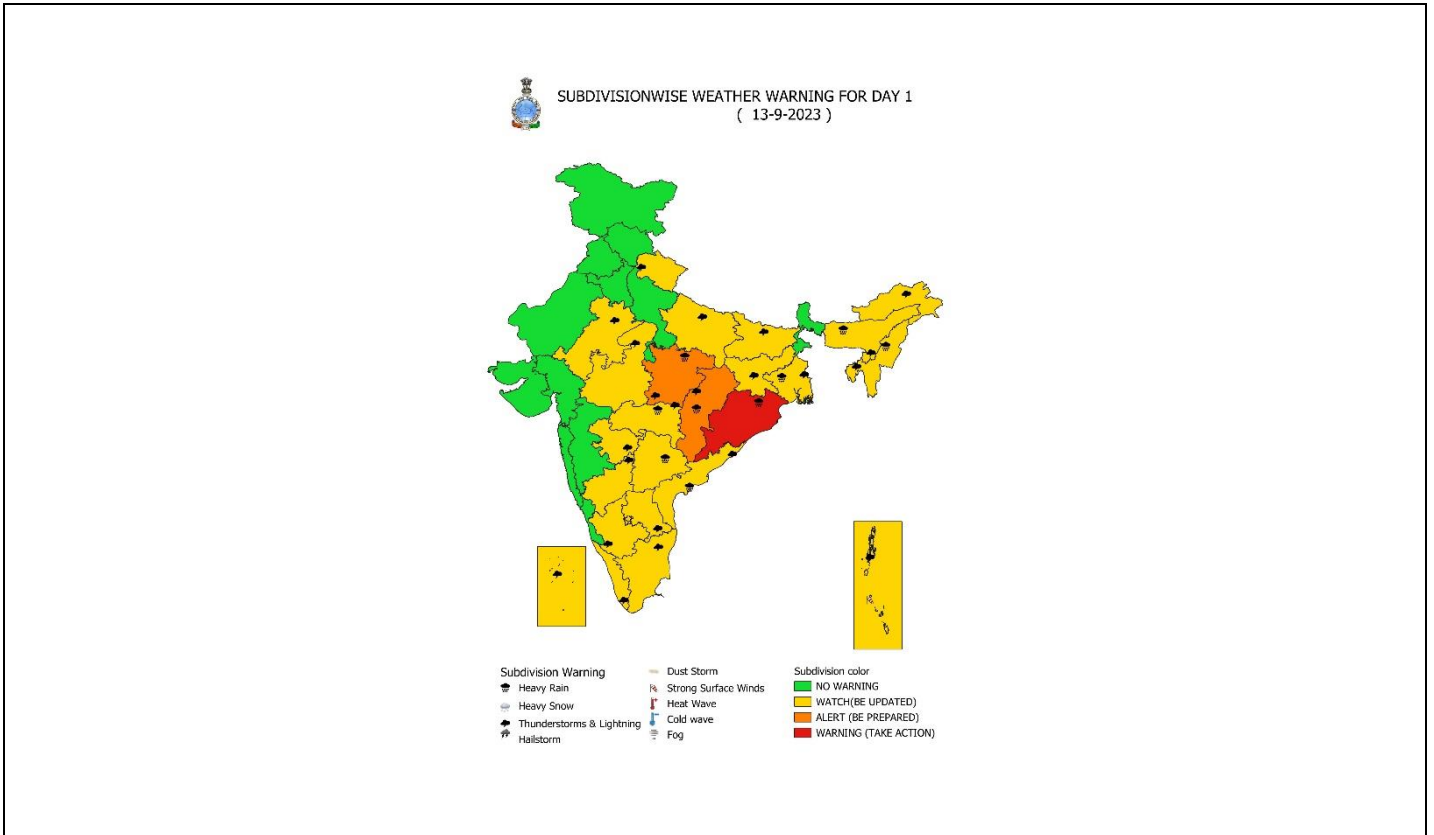
For more details kindly refer:

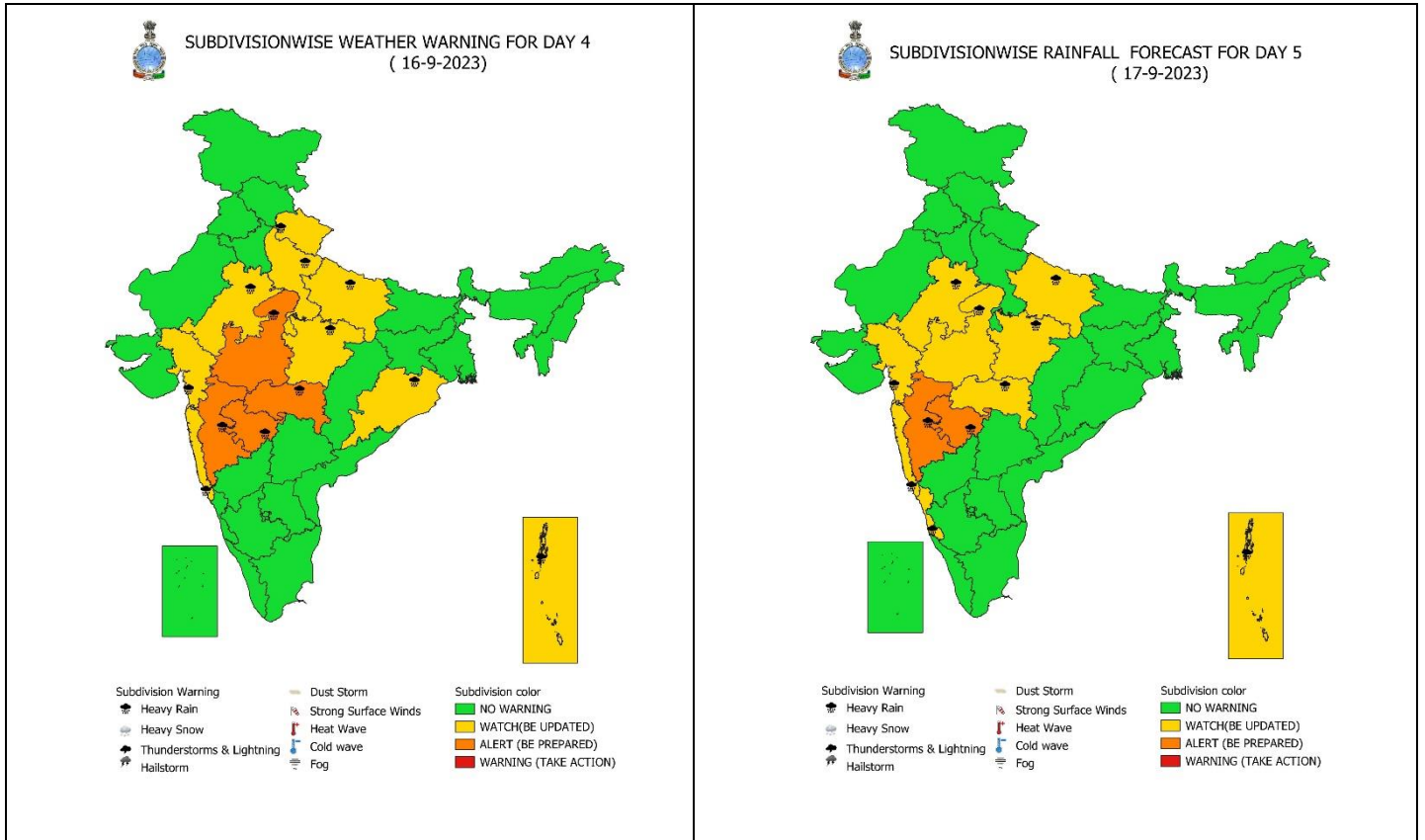
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**Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 13<sup>th</sup> September, 2023):**

- **Heavy to very heavy rainfall** at isolated places over Odisha and **heavy rainfall** at isolated places over Jammu Division, Madhya Pradesh, Chhattisgarh, Tamil Nadu, Coastal Andhra Pradesh, Assam & Meghalaya, Nagaland and Tripura.
- **Significant rainfall recorded (in cm):**
  - ✓ **Odisha:** Ambadola (dist Rayagada) 19, Lanjigarh (dist Kalahandi) 16, Daringibadi (dist Kandhamal) 13, Chitrakunda K Guma (dist Malkangiri) 12, Atabira (dist Bargarh) 12, Tikabali (dist Kandhamal) 11, Bhanjnagar (dist Ganjam) 10, Padampur (dist Bargarh) 10, Padmapur (dist Rayagada) 10, Phiringia (dist Kandhamal) 9, Similiguda (dist Koraput) 9, Krishnaprasad (dist Puri) 8, Kashipur (dist Rayagada) 8, Buguda (dist Ganjam) 8, Banki (dist Cuttack) 7, Tentulikhunti (dist Nawarangpur) 7, Ranpur (dist Nayagarh) 7, Jharbandh (dist Bargarh) 7, Nandapur (dist Koraput) 7, Koraput (dist Koraput) 7, Digapahandi (dist Ganjam) 7, Paikmal (dist Bargarh) 7,
  - ✓ **Jammu:** Samba-11
  - ✓ **Asam & Meghalaya:** Diphu\_ Aws (dist Karbi Anglong) 11, Kampur (dist Nagaon) 10, Barapani (dist Ri Bhoi) 7
  - ✓ **Nagaland & Tripura:** Dimapur\_ Aws (dist Dimapur) 10, Lengpui (dist Aizawl) 7
  - ✓ **Chhattisgarh:** Masturi (dist Bilaspur) 9, Pakhanjur (dist Kanker) 7, Pamgarh (dist Janjgir) 7, Makadi (dist Kondagaon) 7, Seovrinarayan (dist Janjgir) 7, Kota (dist Bilaspur) 7,
  - ✓ **Madhya Pradesh:** Naigarhi (dist Rewa) 7, Umaria-aws (dist Umaria) 7, Amarkantak (dist Anuppur) 7, Bhanpura (dist Mandsaur) 7,
  - ✓ **Tamil Nadu:** Vanur (dist Villupuram) 9, BASL Mugaiyur (dist Villupuram) 7,
  - ✓ **Coastal Andhra Pradesh:** Palakonda (dist Parvathipuram Manyam) 7, Jiyyamma Valasa (dist Parvathipuram Manyam) 7,
  - ✓ **East Rajasthan:** Chabra (dist Baran) 6, Atru Sr (dist Baran) 6,
  - ✓ **Himachal Pradesh:** Palampur (dist Kangra) 6, Nahan (dist Sirmaur) 5,
  - ✓ **Vidarbha:** Amgaon (dist Gondia) 6,

**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, Chhattisgarh on 13<sup>th</sup>-14<sup>th</sup>; ghat areas of Madhya Maharashtra, Marathwada on 16<sup>th</sup> & 17<sup>th</sup>; East Madhya Pradesh on 14<sup>th</sup> & 15<sup>th</sup>; West Madhya Pradesh on 15<sup>th</sup> & 16<sup>th</sup>; Vidarbha during 14<sup>th</sup>-16<sup>th</sup> September.

**Impact expected:**

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.














**Action suggested:**

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.


## 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.

<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	 NO WARNING
 Heavy Snow	 Heat Wave	 WATCH(BE UPDATED)
 Thunderstorms & Lightning	 Cold wave	 ALERT (BE PREPARED)
 Hailstorm	 Fog	 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)