



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 11th September, 2023
Time of Issue: 1245 hours IST

Subject: 1) Isolated heavy to very heavy rainfall activity likely over East Uttar Pradesh and Coastal Andhra Pradesh on today and decrease thereafter.
2) A fresh spell of rainfall activity with isolated heavy to very heavy rainfall likely over Odisha, East Madhya Pradesh, Vidarbha, Telangana and Chhattisgarh from 13th September.

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

Significant Weather features:

- ❖ Yesterday's cyclonic circulation persists over northwest Madhya Pradesh & neighbourhood in lower & middle tropospheric levels. A trough runs from this cyclonic circulation to Westcentral Bay of Bengal in lower tropospheric levels across East Madhya Pradesh, south Chhattisgarh and Vidarbha.
- ❖ The Monsoon Trough lies to the south of its normal position.
- ❖ A cyclonic circulation lies over Eastcentral Bay of Bengal adjoining Myanmar Coast in middle tropospheric levels. Under its influence, a Low Pressure Area is likely to form over Northwest Bay of Bengal during next 72 hours.

Weather Forecast and Warnings: (Annexure II)

Northwest India: Light/moderate fairly widespread to widespread rainfall/thunderstorm with isolated **heavy rainfall** activity very likely over West Uttar Pradesh on 11th; East Uttar Pradesh during 11th-13th; Uttarakhand on 11th and 13th to 15th September.

Isolated Extremely heavy rainfall very likely over East Uttar Pradesh on 11th September.

Central India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over West Madhya Pradesh on 11th & 15th; East Madhya Pradesh, Chhattisgarh during 11th-15th and over Vidarbha during 13th-15th September.

East India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** activity very likely over Andaman & Nicobar Islands, Bihar on 11th & 12th and over Odisha during 11th-15th; Jharkhand during 13th-15th and over Gangetic West Bengal on 14th & 15th September.

Isolated very heavy rainfall very likely over Odisha during 13th-15th September.

South India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Kerala & Mahe on 11th & 12th; Rayalaseema on 11th; over Coastal Andhra Pradesh on

11th, 12th & 15th and over Telangana on 14th & 15th September.

Isolated very heavy rainfall very likely over Coastal Andhra Pradesh on 11th 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 on 15th September.

Northeast India: Light/moderate scattered to fairly widespread rainfall/thunderstorm with isolated **heavy rainfall** activity very likely over Arunachal Pradesh, Assam & Meghalaya on 11th & 12th; Nagaland, Manipur, Mizoram & Tripura during 11th-15th September.

Isolated very heavy rainfall very likely over Assam & Meghalaya on 12th September.

For more details kindly refer:

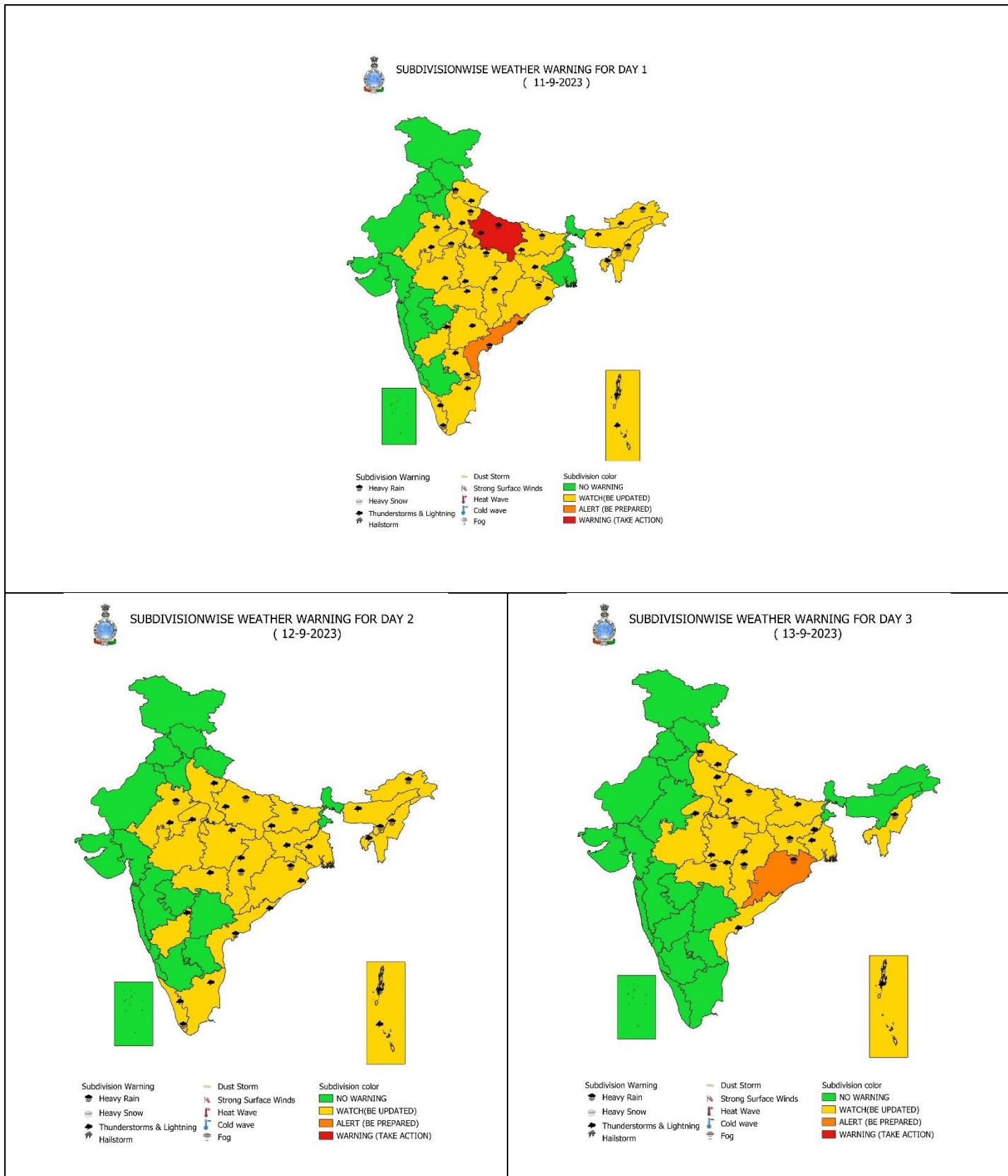
[https://mausam.imd.gov.in/responsive/all india forcast bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php)

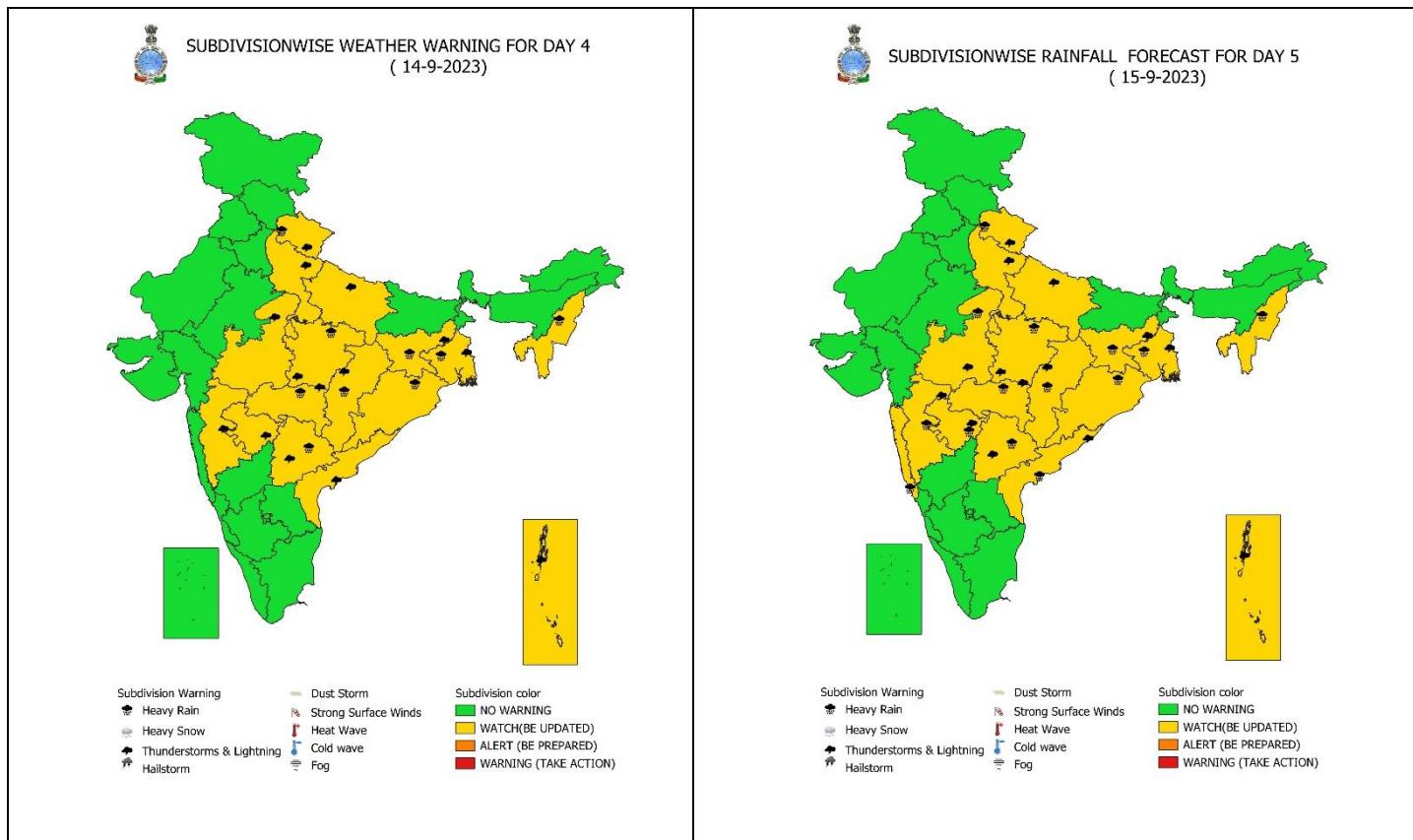
Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 11th September, 2023):

- **Extremely heavy rainfall** at isolated places over Uttar Pradesh, Andaman & Nicobar Islands; **Heavy to very heavy rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, East Rajasthan, Coastal Andhra Pradesh, Arunachal Pradesh, Assam & Meghalaya and **heavy rainfall** at isolated places over Madhya Pradesh, Nagaland, Kerala and Telangana.
- **Significant rainfall recorded (in cm):**
 - ✓ **East Uttar Pradesh:** Fatehpur Tehsil (dist Barabanki) 32, Nawabganj Tehsil (dist Barabanki) 18, Hardoi (dist Hardoi) 17, Ramnagar (dist Barabanki) 16, Kanpur (dist Kanpur City) 15, Lucknow (Cr) (dist Lucknow) 14, Chhibrampur (dist Kannauj) 14, Lucknow (dist Lucknow) 13, Mahsi (dist Bahraich) 12, Hardoi Obsy (dist Hardoi) 11, Sidhuli (dist Sitapur) 11, Kannauj(t) (dist Kannauj) 11, Fatehgarh Cwc (dist Farrukhabad) 11, Tirwa (dist Kannauj) 10, Mehmudabad (dist Sitapur) 10, Bahraich (dist Bahraich) 10, Neemsar (dist Sitapur) 10, Fatehpur (dist Fatehpur) 9, Hasanganj (dist Unnao) 9, Kaiserganj (dist Bahraich) 9, Bhatpurwagh (dist Sitapur) 9, Malihabad (dist Lucknow) 9, Elgin Bridge (dist Barabanki) 9, Ankinghat (dist Kanpur Dehat) 9, Kannauj (dist Kannauj) 9, Nighasan (dist Kheri) 8, Kheri Lakhimpur (dist Kheri) 7,
 - ✓ **West Uttar Pradesh:** Bilaspur (dist Rampur) 31, Bilari (dist Moradabad) 27, Moradabad Cwc (dist Moradabad) 23, Sambhal (dist Sambhal) 21, Moradabad (dist Moradabad) 19, Hathras (dist Hathras) 16, Moradabad (dist Moradabad) 16, Sahawar (dist Kasganj) 16, Kasganj (dist Kasganj) 15, Sahaswan (dist Badaun) 13, Suar (dist Rampur) 12, Kasba Tanda (dist Rampur) 12, Gunnar (dist Sambhal) 12, Dhampur (dist Bijnor) 12, Milak (dist Rampur) 11, Chandpur (dist Bijnor) 10, Najibabad (t) (dist Bijnor) 10, Mahroni (dist Lalitpur) 9, Mirganj (dist Bareilly) 8, Sasani (dist Hathras) 8, Baheri (dist Bareilly) 8, Jasrana (dist Firozabad) 7, Nawabganj (dist Bareilly) 7, Bhogaon (dist Mainpuri) 7, Shahjahanpur (dist Shahjahanpur) 7, Chandausi (dist Sambhal) 7, Shahjahanpur (dist Shahjahanpur) 7,
 - ✓ **Andaman & Nicobar Islands:** Mayabandar-22, Long Island-16, Port Blair-10;
 - ✓ **Arunachal Pradesh:** Longding-15;
 - ✓ **Assam & Meghalaya:** Sivasagar-13, Barpeta-8
 - ✓ **Uttarakhand:** CHAMPAWAT: Pati, Chalchi-14 each, Basti-13, Tanakpur, Lohaghat-11 each, Devidhura-9; NAINITAL: Nainital-13, Mukteshwar-11, Nainital(Jeolikot)-10, Haldwani-8; UDHAM SINGH NAGAR: Gular Bhoj-14, Kichha-13, Bajpur-12, Rudrapur(Ukg)-11, Kashipur-9, Pantnagar -7, ALMORA: Jainti-12, Sitalkhel-11, Matela, Jageshwar-8 each, PITHORAGARH: Ganai Gangoli-9, Pithoragarh, Berinag-Jhulagh, Didihi-7 each,
 - ✓ **East Rajasthan:** Asnawar Sr (dist Jhalawar) 13, Bayana (dist Bharatpur) 7,
 - ✓ **Coastal Andhra Pradesh:** Amaravati (dist Guntur) 13, Vijayawada (dist Ntr District) 11, Mangalagiri (dist Guntur) 11, Gudivada (dist Krishna) 10, Macherla (dist Palnadu) 9,
 - ✓ **Kerala:** Karipur AP (Malappuram district) 8, Athirappalli (Thrissur district), Kunnamangalam & Urumi (Kozhikode district) 7 each
 - ✓ **East Madhya Pradesh:** Lalburra (dist Balaghat) 9, Tikamgarh-aws (dist Tikamgarh) 8, Banda (dist Sagar) 7, Khargapur (dist Tikamgarh) 7,
 - ✓ **West Madhya Pradesh:** Vijaypur (adp) (dist Sheopur) 8, Porsa (dist Morena) 8,
 - ✓ **Telangana:** Kondurg (dist Rangareddy) 9, Achampeta (dist Nagarkurnool) 7,
 - ✓ **Nagaland:** Dimapur-7
 - ✓ **Himachal Pradesh:** Naina Devi (dist Bilaspur) 6,
 - ✓ **Jammu:** Bakore-6

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

Annexure II





Impact & Action Suggested due to very heavy rainfall over East Uttar Pradesh, Coastal Andhra Pradesh on 11th and Odisha on 13th 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.

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 Widespred (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)	