



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 12th September, 2023
Time of Issue: 1245 hours IST

Subject: Isolated heavy to very heavy rainfall likely over Odisha and isolated heavy rainfall likely over Gangetic West Bengal, Jharkhand, East Madhya Pradesh, Chhattisgarh and Vidarbha during next 3-4 days.

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

Significant Weather features:

- ❖ Yesterday's cyclonic circulation over northwest Madhya Pradesh, now lies over southwest Uttar Pradesh in lower & middle tropospheric levels.
- ❖ Another cyclonic circulation lies over Central parts of Bay of Bengal & adjoining north Bay of Bengal. Under its influence, a **Low Pressure Area** is likely to form over Northwest & adjoining westcentral Bay of Bengal during next 24 hours. Subsequently, it is likely to become more marked and move west-northwestwards across south Odisha and North Andhra Pradesh coast.
- ❖ A trough runs from the cyclonic circulation over southwest Uttar Pradesh to cyclonic circulation over Central parts of Bay of Bengal & adjoining north Bay of Bengal across southeast Uttar Pradesh, Jharkhand and north Odisha in lower 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 rainfall** activity very likely over southern parts of Uttar Pradesh on 12th and over Uttarakhand during 13th to 16th September.

Central India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over East Madhya Pradesh during 12th-16th; Vidarbha during 13th-16th; Chhattisgarh during 12th-15th and West Madhya Pradesh during 14th-16th September.

Isolated very heavy rainfall very likely over south Chhattisgarh on 12th September.

East India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** activity very likely over Odisha during 12th-15th; Jharkhand during 13th-15th; over Gangetic West Bengal during 12th-14th and over Andaman & Nicobar Islands on 15th & 16th September.

Isolated Extremely heavy rainfall also very likely over Odisha during 12th & 13th September and very heavy rainfall on 14th September.

South India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Kerala, ghat areas of Tamil Nadu on 12th; over Coastal Andhra Pradesh on 12th & 13th and over Telangana on 12th & 16th September.

Isolated very heavy rainfall very likely over north Coastal Andhra Pradesh on 12th September.

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

Northeast India: Light/moderate scattered to fairly widespread rainfall/thunderstorm with isolated **heavy rainfall** activity very likely over Assam & Meghalaya on 12th & 13th and Nagaland, Manipur, Mizoram & Tripura during 12th-14th September.

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

For more details kindly refer:

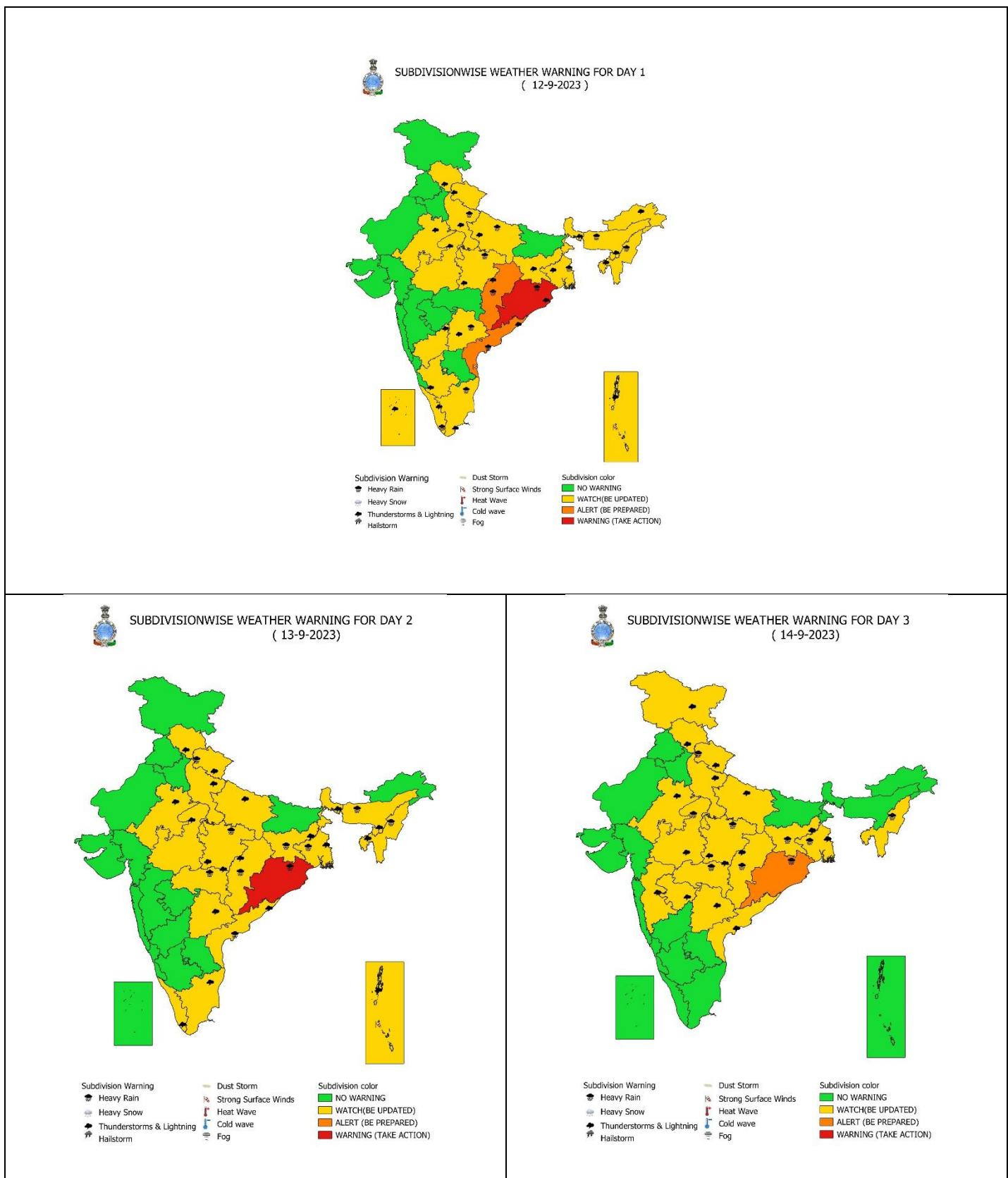
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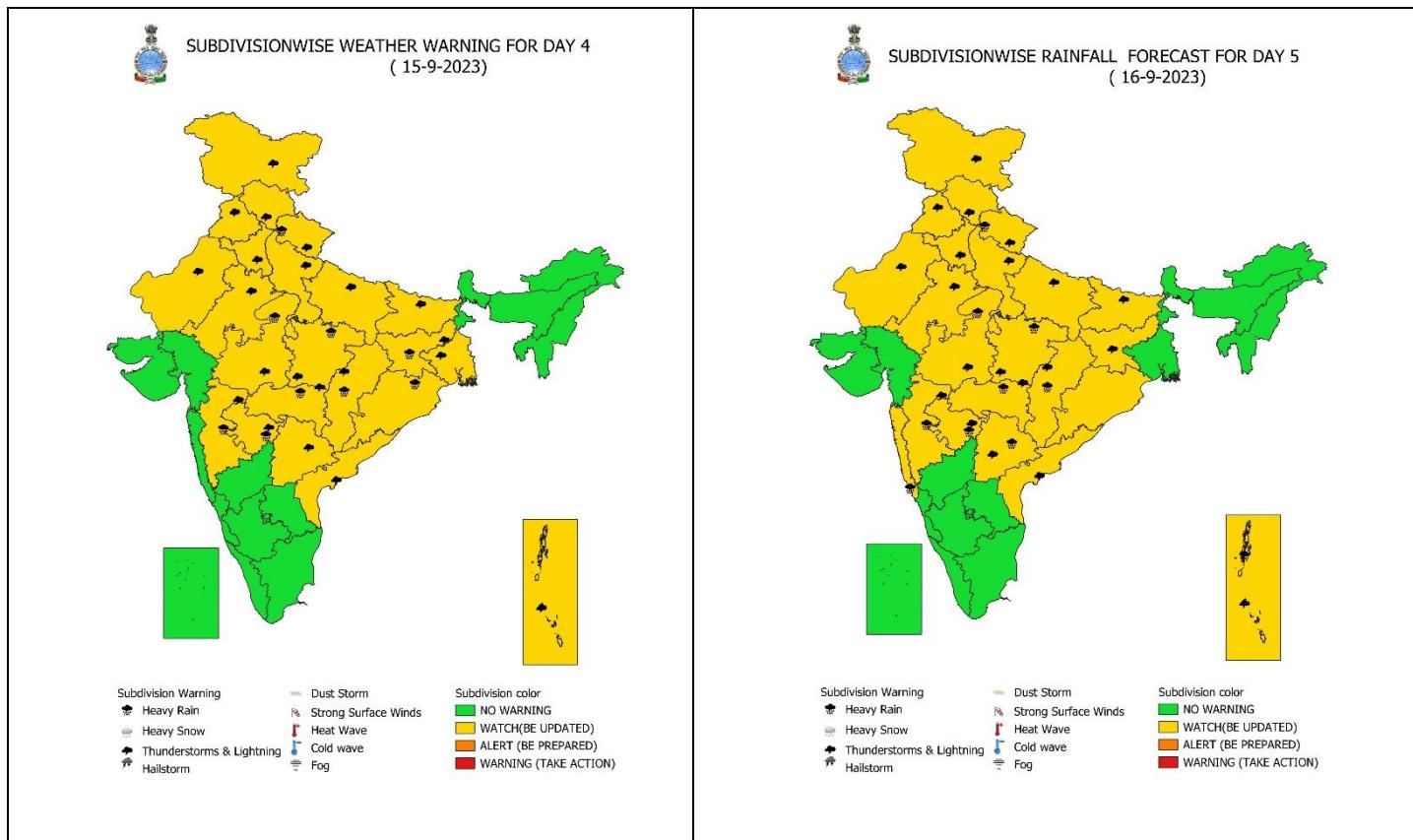
Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 12th September, 2023):

- **Extremely heavy rainfall** at isolated places over East Uttar Pradesh and Odisha; **Heavy to very heavy rainfall** at isolated places over Tripura and **heavy rainfall** at isolated places over Jammu Division, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal, Coastal Andhra Pradesh, Assam & Meghalaya and Mizoram.
- **Significant rainfall recorded (in cm):**
 - ✓ **East Uttar Pradesh:** Elgin Bridge (dist Barabanki) 27, Kaiserganj (dist Bahraich) 25, Ramnagar (dist Barabanki) 23, Fatehpur Tehsil (dist Barabanki) 12, Bahraich (dist Bahraich) 10, Mahsi (dist Bahraich) 9, Sirauli Gauspur Tehsil (dist Barabanki) 9, Colonialganj (dist Gonda) 9, Bhinga (dist Shrawasti) 8, Nanpara (dist Bahraich) 7,
 - ✓ **Odisha:** Similiguda (dist Koraput) 21, Jeypore (dist Koraput) 16, Papadahandi (dist Nawarangpur) 15, Koraput (dist Koraput) 10, Aska (dist Ganjam) 10, Dabugan (dist Nawarangpur) 9, Laikera (dist Jharsuguda) 9, Dharakote (dist Ganjam) 7, Muniguda (dist Rayagada) 7, Nandapur (dist Koraput) 7,
 - ✓ **Tripura and Mizoram:** Panisagar-12, Lawngtlai-9, Kolasib-8
 - ✓ **Jammu:** Reasi-11, Jammu-8, Samba-7
 - ✓ **Sub-Himalayan West Bengal:** Malda-10,
 - ✓ **Assam & Meghalaya:** Karimganj-10, Karbi Anglong-7
 - ✓ **East Madhya Pradesh:** Deori (dist Sagar) 9, Ajaigarh (dist Panna) 8, Palera (dist Tikamgarh) 7,
 - ✓ **Coastal Andhra Pradesh:** Palakonda (dist Parvathipuram Manyam) 7, Jiyyamma Valasa (dist Parvathipuram Manyam) 7,
 - ✓ **Chhattisgarh:** Bakavand (dist Bastar) 7,
 - ✓ **East Rajasthan:** Nainwa (dist Bundi) 6,
 - ✓ **Madhya Maharashtra:** Gaganbawada (dist Kolhapur) 6,
 - ✓ **Marathawada:** Palam (dist Parbhani) 6,
 - ✓ **Kerala:** Nilambur (dist Malappuram) 6, Urumi Aws (dist Kozhikode) 6,
 - ✓ **Tamil Nadu:** Avalanche (Dist The Nilgiris) 5,

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 Odisha during 12th-14th; south Chhattisgarh and north coastal Andhra Pradesh on 12th 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)	