



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

**Press Release
Date: 20th September, 2023
Time of Issue: 1315 hours IST**

Subject: Under the influence of Low-Pressure Area over Northwest Bay of Bengal & adjoining West Bengal-north Odisha coasts, heavy to very heavy rainfall likely over East and adjoining central India during next 3 days.

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

- ❖ A Low Pressure Area lies over Northwest Bay of Bengal & adjoining West Bengal-north Odisha coasts. Associated cyclonic circulation extends upto middle tropospheric levels tilting southwest-wards with height. It is likely to move northwestwards across Jharkhand during next 2 days.
- ❖ A cyclonic circulation lies over Kutch & neighbourhood and extends upto middle tropospheric levels. A trough runs from this cyclonic circulation to Punjab across West Rajasthan in lower tropospheric levels.
- ❖ The Monsoon Trough lies south to its normal position and passes through Jaisalmer, Udaipur, Ratlam, Siddhi, Ranchi, Digha, the centre of Low Pressure Area over northwest Bay of Bengal & adjoining West Bengal-north Odisha coasts and thence southeastwards to Eastcentral Bay of Bengal.

Weather Forecast and Warnings: (Annexure II)

East India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over West Bengal & Sikkim, Odisha, Jharkhand during 20th-22nd; Bihar during 21st-23rd and Andaman & Nicobar Islands during 22nd-24th September.

Isolated very heavy rainfall very likely over Odisha on 20th & 21st and Sub-Himalayan West Bengal & Sikkim on 21st & 22nd September.

Northeast India: Light/moderate scattered to fairly widespread rainfall/thunderstorm with **isolated heavy to very heavy rainfall** activity very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland & Manipur during 20th-23rd September.

Central India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Chhattisgarh, East Madhya Pradesh during 20th-22nd; Vidarbha on 20th & 21st and West Madhya Pradesh during 21st-23rd September.

Isolated very heavy rainfall very likely over Chhattisgarh on 21st September.

South India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall**

very likely over Kerala on 20th & 21st; Coastal Andhra Pradesh, Coastal Karnataka on 20th and interior Tamil Nadu on 21st & 22nd September.

Northwest India: Light/moderate scattered to fairly widespread rainfall/thunderstorm with isolated **heavy falls** very likely over East Uttar Pradesh on 22nd September.

West India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over north Konkan on 20th September.

Isolated to scattered light/moderate rainfall likely over rest parts of the country during next 5 days.

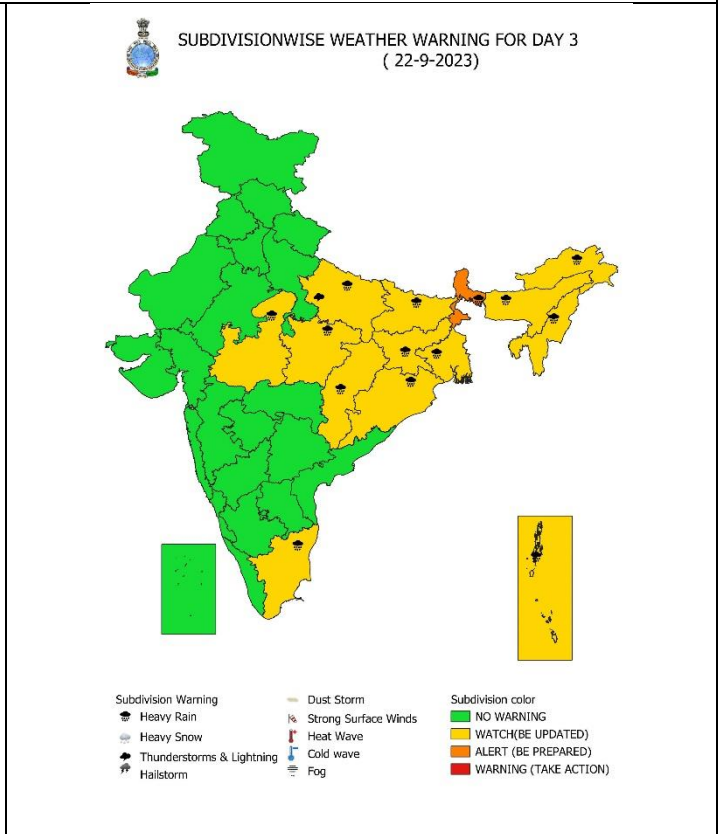
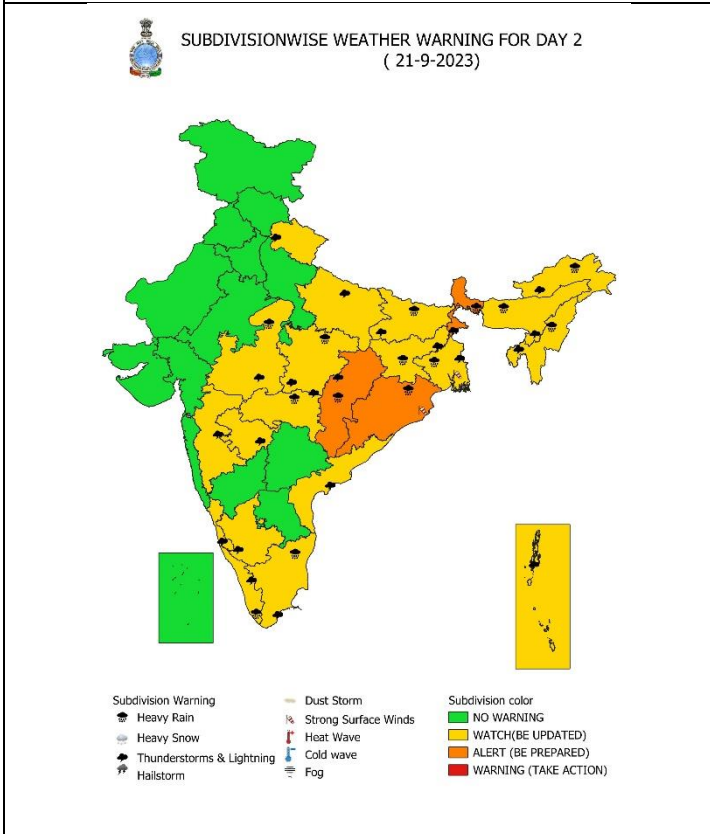
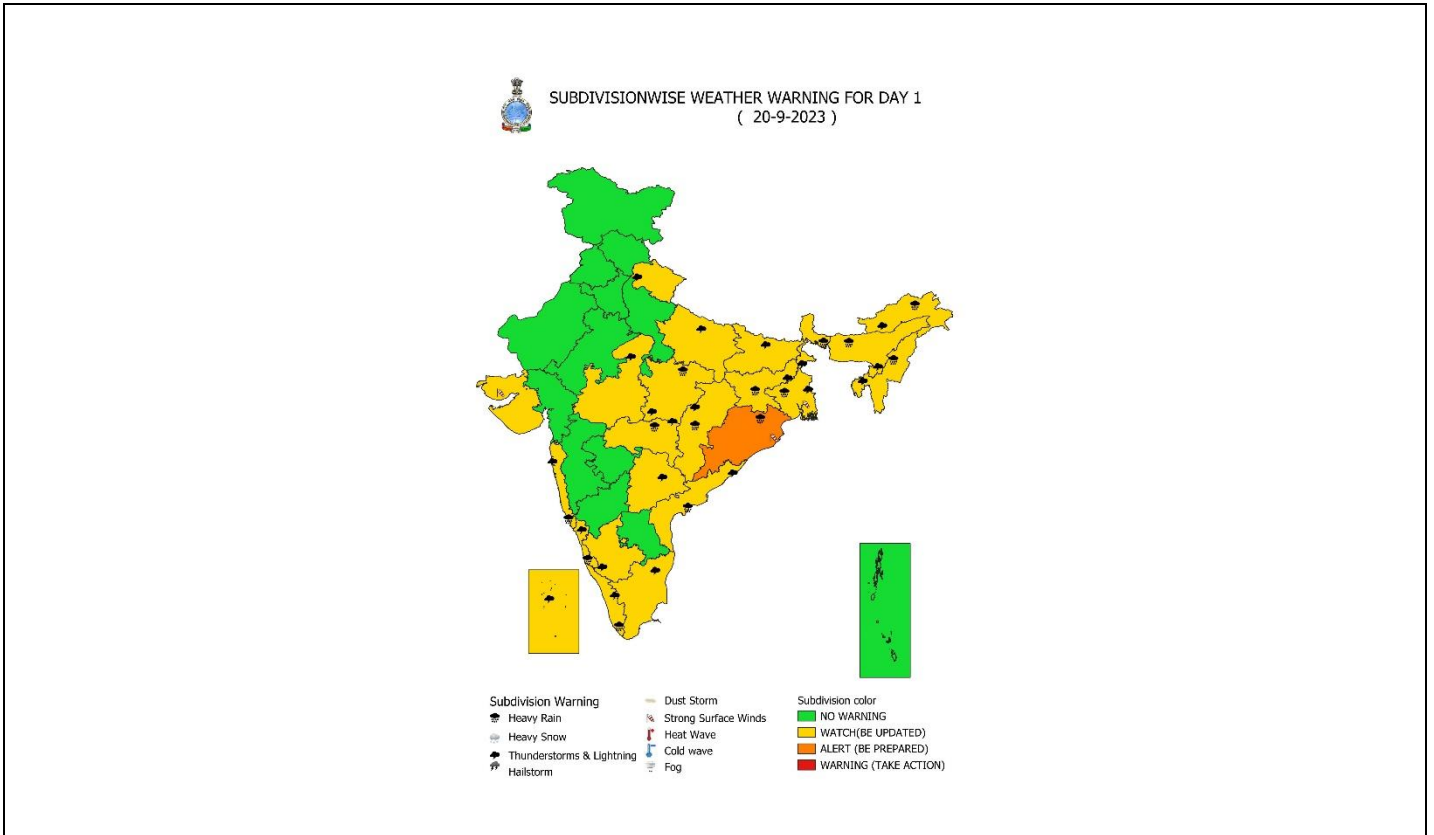
For more details kindly refer:

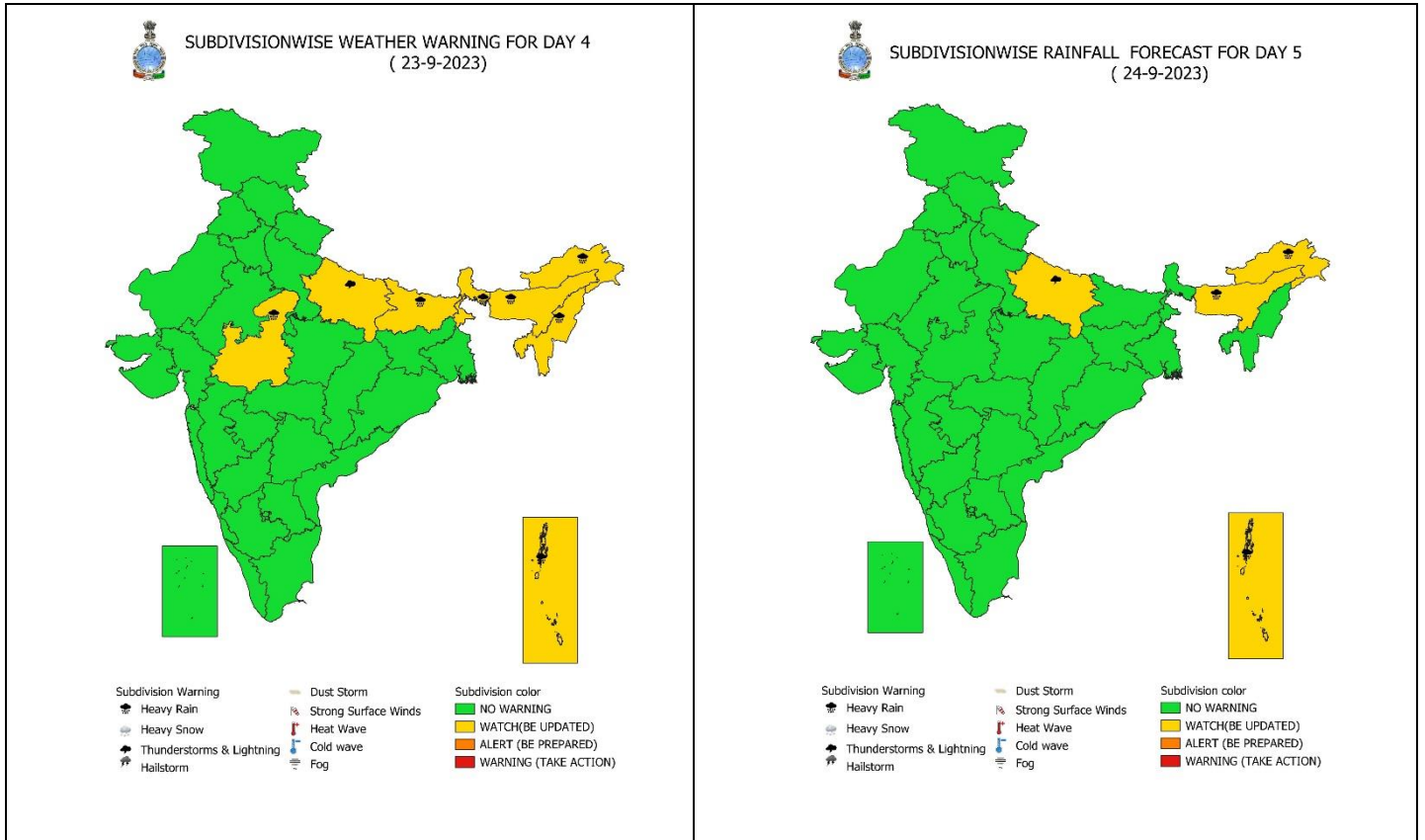
https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 20th September, 2023):

- **Heavy to very heavy rainfall** at isolated places over Saurashtra & Kutch, Odisha, Assam & Meghalaya and **heavy rainfall** at isolated places over East Uttar Pradesh, southwest Rajasthan, Gujarat Region, north Konkan, Nagaland, Manipur, north Coastal Andhra Pradesh, Tamil Nadu and Kerala.
- **Significant rainfall recorded (in cm):**
 - ✓ **Odisha:** Koraput (dist Koraput) 17, Nandapur (dist Koraput) 14, Similiguda (dist Koraput) 10, Jeypore (dist Koraput) 10, Narla (dist Kalahandi) 10, Gondia (dist Dhenkanal) 9, Nuagada (dist Gajapati) 9, Kesinga (dist Kalahandi) 9, Titlagarh (dist Bolangir) 9, Jagannath Prasad (dist Ganjam) 8, Kashipur (dist Rayagada) 8, Bangamunda (dist Bolangir) 8, Lamataput (dist Koraput) 7, Th Rampur (dist Kalahandi) 7, Tikarpara (dist Angul) 7, Karlamunda (dist Kalahandi) 7, Bhuban (dist Dhenkanal) 7, Belgaon (dist Bolangir) 7, Gania (dist Nayagarh) 7, Chilika (dist Khurda) 7, Chikiti (dist Ganjam) 7,
 - ✓ **Saurashtra & Kutch:** Lakhpat (dist Kutch) 17, Rapar (dist Kutch) 12, Nakhatrana (dist Kutch) 11, Malia_miana (dist Morbi) 10, Tankara (dist Morbi) 9, Naliya (dist Kutch) 9, Jamnagar (dist Jamnagar) 8, Morbi (dist Morbi) 8, Halvad (dist Morbi) 8, Bhuj (dist Kutch) 7,
 - ✓ **Assam & Meghalaya:** Khowang (dist Dibrugarh) 18, Khonikar ARG (dist Dibrugarh) 11, D/mohanbari Aero (dist Dibrugarh) 9, Mohanbari_aws (dist Dibrugarh) 9, Fakiragram ARG (dist Kokrajhar) 9, Kakopather ARG (dist Tinsukia) 9, Nahar Katia (dist Dibrugarh) 8, Naharkatia Arg (dist Dibrugarh) 8, Dholla Bazar (dist Tinsukia) 8, Tinsukia (dist Tinsukia) 7, Sonitpur AGRI (dist Sonitpur) 7
 - ✓ **Nagaland, Manipur:** Chottabekra (dist Imphal West) 8, Dimapur_ Aws (dist Dimapur) 8
 - ✓ **Gujarat Region:** Kalol_arg (dist Gandhinagar) 9, Padra (dist Vadodara) 7,
 - ✓ **Coastal Karnataka:** Gokarna (dist Uttara Kannada) 9,
 - ✓ **Kerala:** Aryankavu (Kollam district) 9
 - ✓ **West Rajasthan:** Dorimanna Sr (dist Barmer) 7,
 - ✓ **Tamil Nadu:** Dindigul: Kodiakanal-7
 - ✓ **Coastal Andhra Pradesh:** Ichchapuram (dist Srikakulam) 7,
 - ✓ **East Uttar Pradesh:** Maharajanj-7, Barabanki-6
 - ✓ **Konkan:** Rameshwar_agri (dist Sindhudurg) 8, Tala (dist Raigad) 7,
 - ✓

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 on 20th & 21st; Chhattisgarh on 21st and Sub-Himalayan West Bengal & Sikkim on 21st & 22nd 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 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)